

# ICP-MS Quantitative Analysis - Summary Report

Sample ID: CCB6

Sample Dil Factor:

Comments:

Sample Date/Time: Thursday, August 19, 2010 18:01:23

Number of Replicates: 3

Method File: C:\Elandata\Method\2008GFA7+.mth

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

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

Calibration File: C:\Elandata\Caldata\081910.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD
C	13		mg/L			4707	3228	3
Cl	37		mg/L			1264649	981707	0
> Ge	72		ug/L			241496	167306	0
Ni	60	0.007	ug/L	0.003	45	28	31	16
Ni	62	-0.327	ug/L	0.021	6	168	39	13
Cu	63	-0.025	ug/L	0.002	6	260	93	6
Cu	65	-0.000	ug/L	0.007	1425	62	42	25
Zn	66	-0.031	ug/L	0.007	24	253	140	5
Zn	67	-0.218	ug/L	0.035	15	110	35	18
Zn	68	-0.270	ug/L	0.020	7	2272	1363	0
As-1	75	0.025	ug/L	0.012	46	35	47	22
As	75	0.061	ug/L	0.030	48	4780	3366	0
Se	82	0.009	ug/L	0.034	396	-5	-2	146
Se	78	0.184	ug/L	0.102	55	4907	3450	0
Y	89		ug/L			230220	171351	1
Kr	83		ug/L			76	59	7
> In	115		ug/L			331526	247178	0
Ag	107	0.006	ug/L	0.001	13	19	63	10
Cd	111	-0.010	ug/L	0.011	109	203	130	17
Cd	114	0.001	ug/L	0.002	245	45	37	25
Sb	121	0.050	ug/L	0.004	8	22	332	8
Sb	123	0.052	ug/L	0.005	9	14	258	8
Ba	135	0.002	ug/L	0.004	172	14	13	39
Ba	137	0.000	ug/L	0.003	601	20	16	38
> Tb	159		ug/L			301360	252779	1
Tl	205	-0.001	ug/L	0.002	222	426	336	12
Pb	208	0.002	ug/L	0.001	59	331	350	11
Bi	209		ug/L			307927	240422	1
Th	232	0.034	ug/L	0.004	13	40	1173	11
U	238	0.004	ug/L	0.000	7	10	152	8

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

**ARI Job ID: RI65**

pH EPA 150.1  
Data Analyst: Ursula Walter  
Comments:  
Print Date: 8/16/10 14:58

No: 3755  
Analyzed by: UW  
Date Analyzed: 8/13/10  
Time Analyzed: 15:10

*OK 8/17/10*

ARI ID	Result	Q	RL	SPK	UAD
1. ICVL	6.98		0.01	7.00	0.02
2. RI53C	7.10 ✓		0.01		
3. RI53C DUP	7.11 ✓		0.01		0.01
4. CCVL	6.99 ✓		0.01	7.00	0.01
5. CCVL	6.98 ✓		0.01	7.00	0.02
6. RI65A	6.20 ✓		0.01		
7. RI65B	6.31 ✓		0.01		
8. RI65B DUP	6.31 ✓		0.01		0.00
9. RI65C	6.64 ✓		0.01		
10. RI65D	6.99 ✓		0.01		
11. RI65E	6.57 ✓		0.01		
12. CCVL	6.98 ✓		0.01	7.00	0.02



# pH Logbook

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

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

### Calibration

Date:	8-17-10	Buffer	Source	Lot #	pH	Temp.
Time:	15:10	2.00	RICCA	100644	2.00	23.1
Analyst:	W	4.00	Fish	102497	4.00	23.2
		7.00	RICCA	1002590	7.01	23.1
		10.00	Fish	093565	10.02	23.1
		12.00	RICCA	1001169	11.93	23.1
		Verification	Fish	101625		
Electrolyte Check (analysts initials):						

### Sample pH

Sample ID	1	2	3	4	5	Temperature
ICV	6.98	6.98				23.3
RISIAZ	6.75	6.75			7.00	21.4
↓ BZ	6.58	6.58				21.3
↓ C2	6.76	6.77				21.8
RISIA1	6.35	6.35				21.4
↓ BZ	7.05	7.05				20.7
↓ C1	7.10	7.11				20.8
↓ D1	6.14	6.14				20.9
↓ E1	6.28	6.28				21.2
CCV	6.99	6.99				23.6
CCV						
CCV						
RT65A1	6.98	6.98		CCV		21.2
RT65A1	6.20	6.19		RT65A1		18.5
↓ B ET	6.71	6.71		↓ B1		19.3
↓ C ET	6.64	6.64		C1		19.2
↓ D ET	6.99	6.99		D1		18.9
E	6.57	6.57		↓ E1		19.7
CCV	6.98	6.98				23.6
CCV						

pH →

CCV  
dep. = 3"

W  
8/17/10

8-17-10

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

DATE: 8/16/2010

ANALYST: KE 13:58

Analytical Balance: 1123230597

Drying Ovens: 12

Muffle Furnace: N/A

SAMPLE ID	DISH #	filtered (mL)	TARE WT (grams)	DRY WT 104C (grams)				1000 DryWT (mg)	TSS (mg/L)	ASH WT 550C (grams)				LOI (mg)	TVSS (mg/l)
				1	2	3	4			CV-02	CV-02	CV-02	CV-02		
<p><b>LCS source:</b> Cellulose, MP Biomedicals Lot# 6399J</p> <p>TSS (mg/l) calculated as:            Final dry wt (mg) = (minimum Dry Wt - Tare Wt)*1000            TSS = [(Final Dry Wt)/ml Sample] * 1000            if dry wt &lt; 1mg, TSS = &lt;1mg / mL sample * 1000 with "&lt;" flag</p>															
<p>Loss on ignition (LOI) = TVSS (mg/L) calculated as:            LOI (mg) = Dry wt(mg) - ((min ash wt - tare wt) * 1000)            TVSS (mg/L) = LOI / mL sample * 1000            if LOI &lt; 1mg, TVSS = &lt;1mg / mL sample * 1000 with "&lt;" flag</p>															
<p><b>50 mg/L TSS</b></p>															
<p>8/16/10 14:20 KE8/16/10 15:52 KE</p>															
BLANK		1000	0.1216	0.1215	0.1215	STOP	-0.1	<1							
LCS # 561 - 4		1000	0.1181	0.1678	0.1677	STOP	49.6	49.6	99.2%						
R165 A8		930	0.1175	0.1179	0.1179	STOP	0.4	<1.1							
R165 B8		890	0.1212	0.1217	0.1216	STOP	0.4	<1.1							
R165 C8		930	0.1223	0.1231	0.1231	STOP	0.8	<1.1							
R165 D8		440	0.1217	0.1293	0.1291	STOP	7.4	16.8							
R165 D8 dup		440	0.1216	0.1291	0.1290	STOP	7.4	16.8							
<p>RPD = 0.0%</p>															
R165 E8		840	0.1212	0.1233	0.1234	STOP	2.1	2.5							
R166 A4		930	0.1236	0.1236	0.1236	STOP	0.0	<1.1							
R178 A4		250	0.1176	0.1205	0.1206	STOP	2.9	11.6							
R178 A4 dup		250	0.1175	0.1204	0.1203	STOP	2.8	11.2							
<p>RPD = 3.5%</p>															
<p>RPD = NA</p>															

R165: 00904

September 1, 2010

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

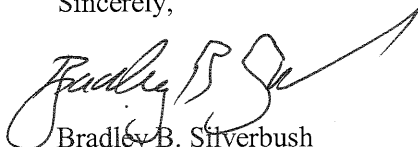
Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6311**. This corresponds to your **Lora Lakes Apts. RI** project under ARI project number **RI46**. Nine aqueous samples were received on 8/17/2010 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors (TEFs) were used to calculate the toxic equivalents (TEQ) on your report. Analytical Resources Incorporated requested a Level IV data package and a turnaround time of fifteen business days for project **6311**.

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

If you have any questions regarding project **6311**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,



Bradley B. Silverbush  
Director of Operations

## Frontier Analytical Laboratory

### Sample Tracking Log

FAL Project ID: 6311

Received on: 08/17/2010

Project Due: 09/09/2010 Storage: R2

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
6311-001-SA	0	RI46	MW-02-081110	EPA 1613 D/F	Aqueous	08/11/2010	10:55 am	08/11/2011
6311-002-SA	0	RI46	MW-03-081110	EPA 1613 D/F	Aqueous	08/11/2010	01:00 pm	08/11/2011
6311-003-SA	0	RI46	MW-03-081110-D	EPA 1613 D/F	Aqueous	08/11/2010	01:05 pm	08/11/2011
6311-004-SA	0	RI46	MW-04-081110	EPA 1613 D/F	Aqueous	08/11/2010	02:50 pm	08/11/2011
6311-005-SA	0	RI46	MW-14-081110	EPA 1613 D/F	Aqueous	08/11/2010	04:10 pm	08/11/2011
6311-006-SA	0	RI46	MW-12-081210	EPA 1613 D/F	Aqueous	08/12/2010	10:15 am	08/12/2011
6311-007-SA	0	RI46	MW-13-081210	EPA 1613 D/F	Aqueous	08/12/2010	12:05 pm	08/12/2011
6311-008-SA	0	RI46	MW-10-081210	EPA 1613 D/F	Aqueous	08/12/2010	03:40 pm	08/12/2011
6311-009-SA	0	RI46	MW-11-081210	EPA 1613 D/F	Aqueous	08/12/2010	02:30 pm	08/12/2011

EPA Method 1613  
PCDD/F



FAL ID: 6311-001-MB  
Client ID: Method Blank  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: NA  
Amount: 1.000 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/L

Acquired: 08-31-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.79		-	0.212				
1,2,3,7,8-PeCDD	ND	2.09		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.29		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.80		-	0.381	Total TCDD	ND	1.79	
1,2,3,7,8,9-HxCDD	ND	2.56		-	0.351	Total PeCDD	ND	2.09	
1,2,3,4,6,7,8-HpCDD	ND	3.99		-	0.495	Total HxCDD	ND	2.80	
OCDD	ND	7.56		-	1.02	Total HpCDD	ND	3.99	
2,3,7,8-TCDF	ND	0.799		-	0.112				
1,2,3,7,8-PeCDF	ND	1.50		-	0.219				
2,3,4,7,8-PeCDF	ND	1.49		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.74		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.71		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.86		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.00		-	0.185	Total TCDF	ND	0.799	
1,2,3,4,6,7,8-HpCDF	ND	2.48		-	0.251	Total PeCDF	ND	1.50	
1,2,3,4,7,8,9-HpCDF	ND	4.19		-	0.280	Total HxCDF	ND	2.00	
OCDF	ND	7.08		-	0.451	Total HpCDF	ND	4.19	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	90.7	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	78.2	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	81.5	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	81.2	23.0 - 140	
13C-OCDD	72.7	17.0 - 157	
13C-2,3,7,8-TCDF	87.8	24.0 - 169	
13C-1,2,3,7,8-PeCDF	82.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	85.2	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	86.1	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	88.1	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	88.1	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	84.1	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	79.2	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	69.8	26.0 - 138	
13C-OCDF	72.8	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	89.6	35.0 - 197
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10



EPA Method 1613  
PCDD/F



FAL ID: 6311-001-OPR  
Client ID: OPR  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: NA  
Amount: 1.000 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: ng/ml

Acquired: 08-31-2010  
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	9.32	6.70 - 15.8	
1,2,3,7,8-PeCDD	51.1	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	47.9	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	48.4	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	50.6	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	48.3	35.0 - 70.0	
OCDD	99.5	78.0 - 144	
2,3,7,8-TCDF	9.25	7.50 - 15.8	
1,2,3,7,8-PeCDF	50.6	40.0 - 67.0	
2,3,4,7,8-PeCDF	51.6	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	47.5	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	47.7	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	48.1	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	48.5	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	50.3	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	49.9	39.0 - 69.0	
OCDF	89.2	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	84.6	20.0 - 175	
13C-1,2,3,7,8-PeCDD	97.6	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	83.8	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	88.2	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	86.4	26.0 - 166	
13C-OCDD	80.9	13.0 - 198	
13C-2,3,7,8-TCDF	87.2	22.0 - 152	
13C-1,2,3,7,8-PeCDF	86.1	21.0 - 192	
13C-2,3,4,7,8-PeCDF	87.9	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	89.6	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	93.2	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	90.4	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	89.9	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	86.1	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	79.0	20.0 - 186	
13C-OCDF	85.5	13.0 - 198	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	89.4	31.0 - 191	
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Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10

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

EPA Method 1613  
PCDD/F



FAL ID: 6311-001-SA  
Client ID: MW-02-081110  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: 08-17-2010  
Amount: 0.996 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/L

Acquired: 08-31-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.64		-	0.212				
1,2,3,7,8-PeCDD	ND	2.45		-	0.302				
1,2,3,4,7,8-HxCDD	ND	3.20		-	0.328				
1,2,3,6,7,8-HxCDD	ND	3.74		-	0.381	Total TCDD	ND	1.64	
1,2,3,7,8,9-HxCDD	ND	3.50		-	0.351	Total PeCDD	ND	2.45	
1,2,3,4,6,7,8-HpCDD	ND	5.24		-	0.495	Total HxCDD	ND	3.74	
OCDD	ND	9.64		-	1.02	Total HpCDD	ND	5.24	
2,3,7,8-TCDF	ND	0.905		-	0.112				
1,2,3,7,8-PeCDF	ND	1.55		-	0.219				
2,3,4,7,8-PeCDF	ND	1.59		-	0.232				
1,2,3,4,7,8-HxCDF	ND	2.11		-	0.162				
1,2,3,6,7,8-HxCDF	ND	2.02		-	0.167				
2,3,4,6,7,8-HxCDF	ND	2.33		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.71		-	0.185	Total TCDF	ND	0.905	
1,2,3,4,6,7,8-HpCDF	ND	2.86		-	0.251	Total PeCDF	ND	1.59	
1,2,3,4,7,8,9-HpCDF	ND	5.04		-	0.280	Total HxCDF	ND	2.71	
OCDF	ND	7.78		-	0.451	Total HpCDF	ND	5.04	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	71.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	72.4	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	70.2	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	78.8	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	71.0	23.0 - 140	
13C-OCDD	68.8	17.0 - 157	
13C-2,3,7,8-TCDF	72.9	24.0 - 169	
13C-1,2,3,7,8-PeCDF	69.0	24.0 - 185	
13C-2,3,4,7,8-PeCDF	68.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	85.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	88.4	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	85.9	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	77.9	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	74.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	67.7	26.0 - 138	
13C-OCDF	74.9	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	74.6	35.0 - 197
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10

EPA Method 1613  
PCDD/F



FAL ID: 6311-002-SA  
Client ID: MW-03-081110  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: 08-17-2010  
Amount: 0.961 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/L

Acquired: 08-31-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.89		-	0.212				
1,2,3,7,8-PeCDD	ND	3.30		-	0.302				
1,2,3,4,7,8-HxCDD	ND	3.78		-	0.328				
1,2,3,6,7,8-HxCDD	ND	4.63		-	0.381	Total TCDD	ND	1.89	
1,2,3,7,8,9-HxCDD	ND	4.25		-	0.351	Total PeCDD	ND	3.30	
1,2,3,4,6,7,8-HpCDD	ND	6.14		-	0.495	Total HxCDD	ND	4.63	
OCDD	ND	9.78		-	1.02	Total HpCDD	ND	6.14	
2,3,7,8-TCDF	ND	1.06		-	0.112				
1,2,3,7,8-PeCDF	ND	1.93		-	0.219				
2,3,4,7,8-PeCDF	ND	2.07		-	0.232				
1,2,3,4,7,8-HxCDF	ND	2.57		-	0.162				
1,2,3,6,7,8-HxCDF	ND	2.49		-	0.167				
2,3,4,6,7,8-HxCDF	ND	2.88		-	0.167				
1,2,3,7,8,9-HxCDF	ND	3.09		-	0.185	Total TCDF	ND	1.06	
1,2,3,4,6,7,8-HpCDF	ND	3.30		-	0.251	Total PeCDF	ND	2.07	
1,2,3,4,7,8,9-HpCDF	ND	5.91		-	0.280	Total HxCDF	ND	3.09	
OCDF	ND	8.63		-	0.451	Total HpCDF	ND	5.91	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	80.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	85.1	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	78.7	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	88.7	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	84.1	23.0 - 140	
13C-OCDD	90.9	17.0 - 157	
13C-2,3,7,8-TCDF	82.7	24.0 - 169	
13C-1,2,3,7,8-PeCDF	78.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	77.8	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	92.9	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	96.3	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	91.4	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	87.8	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	86.2	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	81.0	26.0 - 138	
13C-OCDF	89.9	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 85.6 35.0 - 197

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

Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10

EPA Method 1613  
PCDD/F



FAL ID: 6311-003-SA  
Client ID: MW-03-081110-D  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: 08-17-2010  
Amount: 1.013 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/L

Acquired: 08-31-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.44		-	0.212				
1,2,3,7,8-PeCDD	ND	1.79		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.24		-	0.328				
1,2,3,6,7,8-HxCDD	ND	2.72		-	0.381	Total TCDD	ND	1.44	
1,2,3,7,8,9-HxCDD	ND	2.50		-	0.351	Total PeCDD	ND	1.79	
1,2,3,4,6,7,8-HpCDD	ND	3.69		-	0.495	Total HxCDD	ND	2.72	
OCDD	ND	8.62		-	1.02	Total HpCDD	ND	3.69	
2,3,7,8-TCDF	ND	0.797		-	0.112				
1,2,3,7,8-PeCDF	ND	1.22		-	0.219				
2,3,4,7,8-PeCDF	ND	1.33		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.44		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.39		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.58		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.78		-	0.185	Total TCDF	ND	0.798	
1,2,3,4,6,7,8-HpCDF	ND	2.28		-	0.251	Total PeCDF	ND	1.33	
1,2,3,4,7,8,9-HpCDF	ND	4.03		-	0.280	Total HxCDF	ND	1.78	
OCDF	ND	5.87		-	0.451	Total HpCDF	ND	4.03	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	85.0	25.0 - 164	
13C-1,2,3,7,8-PeCDD	89.4	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	82.6	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	91.4	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	81.8	23.0 - 140	
13C-OCDD	81.2	17.0 - 157	
13C-2,3,7,8-TCDF	82.8	24.0 - 169	
13C-1,2,3,7,8-PeCDF	82.2	24.0 - 185	
13C-2,3,4,7,8-PeCDF	80.0	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	91.4	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	98.4	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	93.5	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	90.6	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	85.4	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	80.4	26.0 - 138	
13C-OCDF	86.5	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 87.6 35.0 - 197

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

Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10

EPA Method 1613  
PCDD/F



FAL ID: 6311-004-SA  
Client ID: MW-04-081110  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: 08-17-2010  
Amount: 1.046 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/L

Acquired: 08-31-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.81		-	0.212				
1,2,3,7,8-PeCDD	ND	2.44		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.58		-	0.328				
1,2,3,6,7,8-HxCDD	ND	3.04		-	0.381	Total TCDD	ND	1.81	
1,2,3,7,8,9-HxCDD	ND	2.84		-	0.351	Total PeCDD	ND	2.44	
1,2,3,4,6,7,8-HpCDD	ND	3.91		-	0.495	Total HxCDD	ND	3.04	
OCDD	ND	9.23		-	1.02	Total HpCDD	ND	3.91	
2,3,7,8-TCDF	ND	0.832		-	0.112				
1,2,3,7,8-PeCDF	ND	1.33		-	0.219				
2,3,4,7,8-PeCDF	ND	1.34		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.91		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.83		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.92		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.27		-	0.185	Total TCDF	ND	0.832	
1,2,3,4,6,7,8-HpCDF	ND	2.49		-	0.251	Total PeCDF	ND	1.34	
1,2,3,4,7,8,9-HpCDF	ND	4.19		-	0.280	Total HxCDF	ND	2.27	
OCDF	ND	6.50		-	0.451	Total HpCDF	ND	4.19	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	77.1	25.0 - 164	
13C-1,2,3,7,8-PeCDD	79.1	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	67.5	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	80.4	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	73.4	23.0 - 140	
13C-OCDD	71.0	17.0 - 157	
13C-2,3,7,8-TCDF	77.4	24.0 - 169	
13C-1,2,3,7,8-PeCDF	75.5	24.0 - 185	
13C-2,3,4,7,8-PeCDF	76.1	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	78.0	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	84.2	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	84.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	79.5	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	73.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	67.9	26.0 - 138	
13C-OCDF	73.7	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 86.9 35.0 - 197

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

Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10

EPA Method 1613  
PCDD/F



FAL ID: 6311-005-SA  
Client ID: MW-14-081110  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: 08-17-2010  
Amount: 1.008 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/L

Acquired: 08-31-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.51		-	0.212				
1,2,3,7,8-PeCDD	ND	1.65		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.58		-	0.328				
1,2,3,6,7,8-HxCDD	ND	3.22		-	0.381	Total TCDD	ND	1.51	
1,2,3,7,8,9-HxCDD	ND	2.92		-	0.351	Total PeCDD	ND	1.65	
1,2,3,4,6,7,8-HpCDD	ND	3.54		-	0.495	Total HxCDD	ND	3.22	
OCDD	ND	5.72		-	1.02	Total HpCDD	ND	3.54	
2,3,7,8-TCDF	ND	0.825		-	0.112				
1,2,3,7,8-PeCDF	ND	1.37		-	0.219				
2,3,4,7,8-PeCDF	ND	1.35		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.56		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.49		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.62		-	0.167				
1,2,3,7,8,9-HxCDF	ND	1.86		-	0.185	Total TCDF	ND	0.825	
1,2,3,4,6,7,8-HpCDF	ND	2.01		-	0.251	Total PeCDF	ND	1.37	
1,2,3,4,7,8,9-HpCDF	ND	3.50		-	0.280	Total HxCDF	ND	1.86	
OCDF	ND	5.24		-	0.451	Total HpCDF	ND	3.50	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	88.9	25.0 - 164	
13C-1,2,3,7,8-PeCDD	96.7	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	84.9	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	90.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	88.8	23.0 - 140	
13C-OCDD	82.2	17.0 - 157	
13C-2,3,7,8-TCDF	90.3	24.0 - 169	
13C-1,2,3,7,8-PeCDF	88.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	92.6	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	95.7	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	96.7	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	95.3	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	90.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	89.0	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	80.4	26.0 - 138	
13C-OCDF	85.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	94.1	35.0 - 197	
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- \* Result taken from dilution or reinjection

Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10

EPA Method 1613  
PCDD/F



FAL ID: 6311-006-SA  
Client ID: MW-12-081210  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: 08-17-2010  
Amount: 0.979 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/L

Acquired: 08-31-2010  
2005 WHO TEQ: 0.0778

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.49		-	0.212				
1,2,3,7,8-PeCDD	ND	2.20		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.52		-	0.328				
1,2,3,6,7,8-HxCDD	ND	3.09		-	0.381	Total TCDD	ND	1.49	
1,2,3,7,8,9-HxCDD	ND	2.82		-	0.351	Total PeCDD	ND	2.20	
1,2,3,4,6,7,8-HpCDD	7.05	-	J	0.0705	0.495	Total HxCDD	ND	3.09	
OCDD	24.3	-	J	0.00729	1.02	Total HpCDD	14.4	-	J
2,3,7,8-TCDF	ND	0.823		-	0.112				
1,2,3,7,8-PeCDF	ND	1.36		-	0.219				
2,3,4,7,8-PeCDF	ND	1.39		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.75		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.71		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.83		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.15		-	0.185	Total TCDF	ND	0.823	
1,2,3,4,6,7,8-HpCDF	ND	2.41		-	0.251	Total PeCDF	ND	1.39	
1,2,3,4,7,8,9-HpCDF	ND	4.76		-	0.280	Total HxCDF	ND	2.15	
OCDF	ND	8.36		-	0.451	Total HpCDF	ND	4.76	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	73.8	25.0 - 164	
13C-1,2,3,7,8-PeCDD	81.2	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	70.8	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	72.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	69.5	23.0 - 140	
13C-OCDD	59.7	17.0 - 157	
13C-2,3,7,8-TCDF	75.7	24.0 - 169	
13C-1,2,3,7,8-PeCDF	75.2	24.0 - 185	
13C-2,3,4,7,8-PeCDF	77.4	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	79.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	80.1	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	81.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	76.3	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	69.6	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	56.6	26.0 - 138	
13C-OCDF	56.3	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 83.8 35.0 - 197

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

Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10

EPA Method 1613  
PCDD/F



FAL ID: 6311-007-SA  
Client ID: MW-13-081210  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: 08-17-2010  
Amount: 0.947 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/L

Acquired: 08-31-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	3.05		-	0.212				
1,2,3,7,8-PeCDD	ND	4.96		-	0.302				
1,2,3,4,7,8-HxCDD	ND	5.03		-	0.328				
1,2,3,6,7,8-HxCDD	ND	6.01		-	0.381	Total TCDD	ND	3.05	
1,2,3,7,8,9-HxCDD	ND	5.60		-	0.351	Total PeCDD	ND	4.96	
1,2,3,4,6,7,8-HpCDD	ND	8.01		-	0.495	Total HxCDD	ND	6.01	
OCDD	ND	14.4		-	1.02	Total HpCDD	ND	8.01	
2,3,7,8-TCDF	ND	1.72		-	0.112				
1,2,3,7,8-PeCDF	ND	3.39		-	0.219				
2,3,4,7,8-PeCDF	ND	3.55		-	0.232				
1,2,3,4,7,8-HxCDF	ND	3.56		-	0.162				
1,2,3,6,7,8-HxCDF	ND	3.43		-	0.167				
2,3,4,6,7,8-HxCDF	ND	3.80		-	0.167				
1,2,3,7,8,9-HxCDF	ND	4.48		-	0.185	Total TCDF	ND	1.72	
1,2,3,4,6,7,8-HpCDF	ND	4.24		-	0.251	Total PeCDF	ND	3.55	
1,2,3,4,7,8,9-HpCDF	ND	9.24		-	0.280	Total HxCDF	ND	4.48	
OCDF	ND	14.3		-	0.451	Total HpCDF	ND	9.24	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	54.0	25.0 - 164	
13C-1,2,3,7,8-PeCDD	58.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	49.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	58.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	49.4	23.0 - 140	
13C-OCDD	37.0	17.0 - 157	
13C-2,3,7,8-TCDF	55.0	24.0 - 169	
13C-1,2,3,7,8-PeCDF	52.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	53.2	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	61.0	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	62.5	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	60.4	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	57.4	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	53.4	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	40.3	26.0 - 138	
13C-OCDF	39.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	58.2	35.0 - 197
-------------------	------	------------

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

Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10



EPA Method 1613  
PCDD/F



FAL ID: 6311-008-SA  
Client ID: MW-10-081210  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: 08-17-2010  
Amount: 0.974 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/L

Acquired: 08-31-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.73		-	0.212				
1,2,3,7,8-PeCDD	ND	1.93		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.60		-	0.328				
1,2,3,6,7,8-HxCDD	ND	3.25		-	0.381	Total TCDD	ND	1.73	
1,2,3,7,8,9-HxCDD	ND	2.94		-	0.351	Total PeCDD	ND	1.93	
1,2,3,4,6,7,8-HpCDD	ND	4.08		-	0.495	Total HxCDD	ND	3.25	
OCDD	ND	10.2		-	1.02	Total HpCDD	ND	4.08	
2,3,7,8-TCDF	ND	0.836		-	0.112				
1,2,3,7,8-PeCDF	ND	1.41		-	0.219				
2,3,4,7,8-PeCDF	ND	1.46		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.71		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.62		-	0.167				
2,3,4,6,7,8-HxCDF	ND	1.79		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.01		-	0.185	Total TCDF	ND	0.836	
1,2,3,4,6,7,8-HpCDF	ND	2.49		-	0.251	Total PeCDF	ND	1.46	
1,2,3,4,7,8,9-HpCDF	ND	4.68		-	0.280	Total HxCDF	ND	2.01	
OCDF	ND	8.56		-	0.451	Total HpCDF	ND	4.68	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	79.7	25.0 - 164	
13C-1,2,3,7,8-PeCDD	86.6	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	75.6	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	77.3	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	76.6	23.0 - 140	
13C-OCDD	61.9	17.0 - 157	
13C-2,3,7,8-TCDF	84.2	24.0 - 169	
13C-1,2,3,7,8-PeCDF	81.0	24.0 - 185	
13C-2,3,4,7,8-PeCDF	81.4	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	86.3	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	86.2	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	84.7	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	83.0	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	75.6	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	64.0	26.0 - 138	
13C-OCDF	58.9	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 88.8 35.0 - 197

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

Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10

EPA Method 1613  
PCDD/F



FAL ID: 6311-009-SA  
Client ID: MW-11-081210  
Matrix: Aqueous  
Batch No: X2096

Date Extracted: 08-30-2010  
Date Received: 08-17-2010  
Amount: 1.039 L

ICal: PCDDFAL3-8-23-10  
GC Column: DB5  
Units: pg/L

Acquired: 09-01-2010  
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.62		-	0.212				
1,2,3,7,8-PeCDD	ND	2.00		-	0.302				
1,2,3,4,7,8-HxCDD	ND	2.52		-	0.328				
1,2,3,6,7,8-HxCDD	ND	3.11		-	0.381	Total TCDD	ND	1.62	
1,2,3,7,8,9-HxCDD	ND	2.84		-	0.351	Total PeCDD	ND	2.00	
1,2,3,4,6,7,8-HpCDD	ND	4.19		-	0.495	Total HxCDD	ND	3.11	
OCDD	ND	8.66		-	1.02	Total HpCDD	ND	4.19	
2,3,7,8-TCDF	ND	0.841		-	0.112				
1,2,3,7,8-PeCDF	ND	1.71		-	0.219				
2,3,4,7,8-PeCDF	ND	1.81		-	0.232				
1,2,3,4,7,8-HxCDF	ND	1.92		-	0.162				
1,2,3,6,7,8-HxCDF	ND	1.84		-	0.167				
2,3,4,6,7,8-HxCDF	ND	2.05		-	0.167				
1,2,3,7,8,9-HxCDF	ND	2.27		-	0.185	Total TCDF	ND	0.841	
1,2,3,4,6,7,8-HpCDF	ND	2.76		-	0.251	Total PeCDF	ND	1.81	
1,2,3,4,7,8,9-HpCDF	ND	5.74		-	0.280	Total HxCDF	ND	2.27	
OCDF	ND	8.26		-	0.451	Total HpCDF	ND	5.74	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	75.6	25.0 - 164	
13C-1,2,3,7,8-PeCDD	83.1	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	73.7	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	80.5	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	75.9	23.0 - 140	
13C-OCDD	56.2	17.0 - 157	
13C-2,3,7,8-TCDF	76.6	24.0 - 169	
13C-1,2,3,7,8-PeCDF	76.7	24.0 - 185	
13C-2,3,4,7,8-PeCDF	76.2	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	86.9	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	90.0	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	86.3	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	84.8	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	75.8	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	57.9	26.0 - 138	
13C-OCDF	55.5	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 85.6 35.0 - 197

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

Analyst: [Signature]  
Date: 9/1/10

Reviewed By: [Signature]  
Date: 9/1/10



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

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

*6311  
 ooc*

Analytical Protocol: In-house  
 Special Instructions:

Requested Turn Around: ~~05/30/08~~  
 Email Results (Y/N): **email**

**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
10-19678-RI46A	MW-02-081110	08/11/10 10:55	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-19679-RI46B	MW-03-081110	08/11/10 13:00	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-19680-RI46C	MW-03-081110-D	08/11/10 13:05	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-19681-RI46D	MW-04-081110	08/11/10 14:50	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-19682-RI46E	MW-14-081110	08/11/10 16:10	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-19683-RI46F	MW-12-081210	08/12/10 10:15	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-19684-RI46G	MW-13-081210	08/12/10 12:05	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					
10-19685-RI46H	MW-10-081210	08/12/10 15:40	Water	1	Dioxin/Furans 1613 (Sub)
Special Instructions: None					

Carrier <i>UPS</i>	Airbill <i>128326950150319431</i>	Date <i>8/16/10</i>
Relinquished by <i>[Signature]</i>	Company <i>ARI</i>	Date <i>8/16/10</i>
Received by <i>Kathy Zap</i>	Company <i>Frontier Analytical</i>	Date <i>8-17-10</i>
		Time <i>1536</i>
		Time <i>1005</i>

**SUBCONTRACTOR ANALYSIS REQUEST**  
 CUSTODY TRANSFER 08/13/10



ARI Project: RI46

*6311  
000*

Laboratory: Frontier Analytical Laboratory  
 Lab Contact: BRAD SILVERBUSH

ARI Client: Floyd-Snider  
 Project ID: POS-LLA

ARI Sample ID	Client Sample ID/ Add'l Sample ID	Sampled	Matrix	Bottles	Analyses
10-19686-RI46I	MW-11-081210	08/12/10 14:30	Water	1	Dioxin/Furans 1613 (Sub)

Special Instructions: None

Carrier <i>SEE PAGE 1</i>	Airbill <i>_____</i>	Date <i>8/16/10</i>
Relinquished by <i>[Signature]</i>	Company <i>ARI</i>	Date <i>8/16/10</i>
Received by <i>[Signature]</i>	Company <i>Frontier Analytical</i>	Date <i>8-17-10</i>
		Time <i>1530</i>
		Time <i>1005</i>

## Frontier Analytical Laboratory

### Sample Login Form

FAL Project ID: **6311**

Client:	Analytical Resources Inc. Sue Dunnihoo
Client Project ID:	RI46
Date Received:	08/17/2010
Time Received:	10:05 am
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	9
Duplicates:	0
Storage Location:	R2

Method of Delivery:	UPS
Tracking Number:	1Z8326950150319431
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	08/11/2011
Adequate Sample Volume	Yes
Anomalies or additional comments:	
L4 DATA PACKAGE & EDD	





# Frontier Analytical Laboratory

## PROJECT REQUEST SHEET

Project #: 6311                      Sample #: 1-9                      Client Manager: BS  
 Client: Analytical Resources Inc. Sue Dunning                      Hold Time: 08/11/2011  
 Matrix: Aqueous                      Extraction Batch: 20910                      Due Date: 09/09/2010  
 Method: EPA 1613 D/F                      Storage: R2  
 SOP: SOPs: EP2A Rev.7 IP2A Rev.8

### COMMENTS/INSTRUCTIONS:

- NL -

Sample	Full Weight (g)	Empty Weight (g)
6311-001-0001-SA	1489.6	493.42
6311-002-0001-SA	1454.5	493.86
6311-003-0001-SA	1506.8	493.37
6311-004-0001-SA	1539.4	493.61
6311-005-0001-SA	1501.6	493.55
6311-006-0001-SA	1472.6	493.47
6311-007-0001-SA	1441.1	493.73
6311-008-0001-SA	1467.8	493.44
6311-009-0001-SA	1532.6	493.51

Results: 6311

Instrument: Fel3  
 DB5 \_\_\_\_\_  
 DB225 \_\_\_\_\_  
 DB1 \_\_\_\_\_  
 Other \_\_\_\_\_

Extract/s located in box: "Hope - ium"

Standards: 6311

L4 + EDD



Frontier Analytical Laboratory  
Percent Solids

FAL Project: 6311

	Sample ID	Chemist	Date	Wet Sample Weight (g)	Dry Sample Weight (g)	% Solids	10g Equiv
1.34	6311-001-0001-SA	GN	8/30/10	13.57	6.00g	0%	—
1.32	6311-002-0001-SA	↓	↓	16.51	0.02g	0.12%	—
1.32	6311-003-0001-SA	↓	↓	12.39	0.01g	0.08%	—
1.28	6311-004-0001-SA	↓	↓	14.21	0.00g	0%	—
1.29	6311-005-0001-SA	↓	↓	14.55	0.00g	0%	—
1.29	6311-006-0001-SA	↓	↓	14.52	0.00g	0%	—
1.30	6311-007-0001-SA	↓	↓	16.90	0.00g	0%	—
1.29	6311-008-0001-SA	↓	↓	11.63	0.00g	0%	—
1.28	6311-009-0001-SA	↓	↓	12.24	0.00g	0%	—

% Solids Summary:

Non-Filtered Determination

1. Place an aliquot of sample into a pre-weighed aluminum weighing boat. Use approximately two to ten grams for solid samples, approximately 10 mL for aqueous samples.
2. Record the weight.
3. Dry sample overnight at approximately 110 C.

Filtered Determination

1. Pre-weigh a glass fiber filter of appropriate pore size and pressure filter a sample aliquot (200-1000mL) through it.
2. Air dry the filter and record the dry weight.

% Solids calculation

$$\% \text{ solids} = \text{aliquot after drying} / \text{aliquot before drying} \times 100$$

- Samples containing one percent solids or less are prepared as aqueous samples.
- Samples containing greater than one percent solids prepared as solid samples.

# EXTRACTION SHEET

Project #: 6311      Extraction Date: 2010-08-30      Extraction Chemist: GN

Method/Analysis:      EPA 1613 D/F

Procedure:      SPE/SOX

Solvent: Toluene

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS		NS		CSS		
			Amt: 10.0uL ID: 100511A Vial: 2 Chemist/Witness/Date		Amt: 10.0uL ID: 100511B Vial: 2 Chemist/Witness/Date		Amt: 10.0uL ID: 100511C Vial: 2 Chemist/Witness/Date		
2096-001-0001-MB	(1.000L)	}	GN	8/30/10	NA		GN	MP	8/31/10
2096-001-0001-OPR	(1.000L)				GN	8/30/10			
6311-001-0001-SA	0.9910					NA			
6311-002-0001-SA	0.961								
6311-003-0001-SA	1.013								
6311-004-0001-SA	1.046								
6311-005-0001-SA	1.008								
6311-006-0001-SA	0.979								
6311-007-0001-SA	0.947								
6311-008-0001-SA	0.974								
6311-009-0001-SA	1.039								

AX-21 Charcoal Cleaned	031210	Acetone	50180	Acid Alumina	08623DJ	Hexane	50125
Hydrochloric Acid	B08505	Methanol	102708	Methylene Chloride (DCM)	50133	Silica Gel	TA1593034
Sodium Hydroxide	9265	Sodium Sulfate	49009905	Sulfuric Acid	101570	Tetradecane	081394
Toluene	101346	Water	102740	C-18 Empore Discs	320505	Cyclohexane	48151

Comments:      6311-5      OPR      MB  
                   6311-3      6311-2      6311-1  
                   6311-7      6311-6      6311-4  
                   6311-9                    6311-8

# CLEANUP SHEET

Project #: 6311

Method/Analysis: EPA 1613 D/F

Splits: 0

Split Date: N/A

Final Volume: 20.0uL

Sample ID	Cleanup 1	Cleanup 2	Cleanup 3	RS
	MSG. AA	N/A	N/A	Amt: 10.0uL ID: 100511D Vial: 2
	Chemist/Date	Chemist/Date	Chemist/Date	Chemist/Witness/Date
2096-001-0001-MB	DN 8.31.10	N/A	N/A	DN MD 8.31.10
2096-001-0001-OPR	↓	↓	↓	↓
6311-001-0001-SA	↓	↓	↓	↓
6311-002-0001-SA	↓	↓	↓	↓
6311-003-0001-SA	↓	↓	↓	↓
6311-004-0001-SA	↓	↓	↓	↓
6311-005-0001-SA	↓	↓	↓	↓
6311-006-0001-SA	↓	↓	↓	↓
6311-007-0001-SA	↓	↓	↓	↓
6311-008-0001-SA	↓	↓	↓	↓
6311-009-0001-SA	↓	↓	↓	↓

Comments:

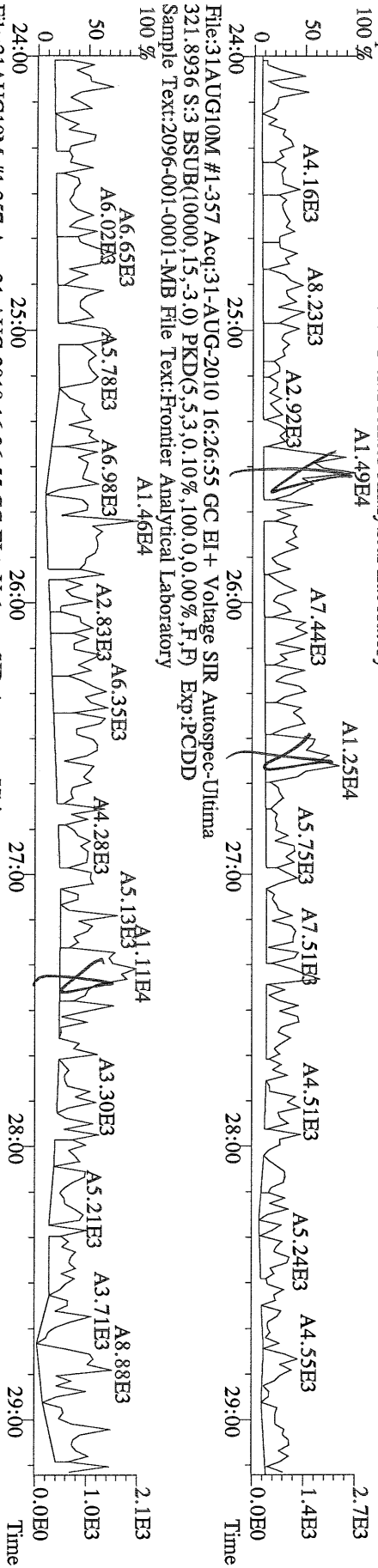
Results: 2096      GC Column: DB5      Amount: 1.000      NATO 1989 Tox: 0.00      WHO 1998 Tox: 0.00      WHO 2005 Tox: 0.00

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	980	750	1.79	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	835	648	2.09	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	826	669	2.29	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	826	669	2.80	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	826	669	2.56	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	865	872	3.99	
OCDD	*	* n	NotFnd	1.43	*		2.50	815	749	7.56	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	751	1120	0.799	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	640	812	1.50	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	640	812	1.49	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	765	673	1.74	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	765	673	1.71	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	765	673	1.86	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	765	673	2.00	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	643	743	2.48	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	643	743	4.19	
OCDF	*	* n	NotFnd	0.79	*		2.50	736	762	7.08	
13C-2,3,7,8-TCDD	2.09e+07	0.84	y	27:20	1.02	1690				84.4	
13C-1,2,3,7,8-PeCDD	1.85e+07	1.76	y	33:09	0.84	1810				90.7	
13C-1,2,3,4,7,8-HxCDD	1.29e+07	1.27	y	38:31	1.07	1560				78.2	
13C-1,2,3,6,7,8-HxCDD	1.27e+07	1.26	y	38:41	1.01	1630				81.5	
13C-1,2,3,4,6,7,8-HpCDD	1.07e+07	0.98	y	44:08	0.86	1620				81.2	
13C-OCDD	1.22e+07	0.95	y	49:41	0.55	2910				72.7	
13C-2,3,7,8-TCDF	3.60e+07	0.88	y	26:35	0.99	1760				87.8	
13C-1,2,3,7,8-PeCDF	2.84e+07	1.76	y	31:25	0.84	1650				82.3	
13C-2,3,4,7,8-PeCDF	2.85e+07	1.75	y	32:44	0.81	1700				85.2	
13C-1,2,3,4,7,8-HxCDF	2.46e+07	0.49	y	37:08	1.85	1720				86.1	
13C-1,2,3,6,7,8-HxCDF	3.44e+07	0.49	y	37:20	2.54	1760				88.1	
13C-2,3,4,6,7,8-HxCDF	2.74e+07	0.49	y	38:16	2.01	1760				88.1	
13C-1,2,3,7,8,9-HxCDF	2.63e+07	0.49	y	39:43	2.03	1680				84.1	
13C-1,2,3,4,6,7,8-HpCDF	1.35e+07	0.46	y	42:13	1.11	1580				79.2	
13C-1,2,3,4,7,8,9-HpCDF	8.65e+06	0.43	y	45:04	0.80	1400				69.8	
13C-OCDF	2.43e+07	1.01	y	50:04	1.08	2910				72.8	
37Cl-2,3,7,8-TCDD	5.95e+06			27:21	0.69	717				89.6	
13C-1,2,3,4-TCDD	2.42e+07	0.85	y	26:46	-	53.8					
13C-1,2,3,4-TCDF	4.12e+07	0.86	y	25:29	-	56.9					
13C-1,2,3,7,8,9-HxCDD	1.54e+07	1.26	y	39:09	-	55.9					
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	980	750	1.79	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	835	648	2.09	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	826	669	2.80	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	865	872	3.99	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	751	1120	0.799	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	640	812	1.50	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	640	812	1.50	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	765	673	2.00	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	643	743	4.19	0

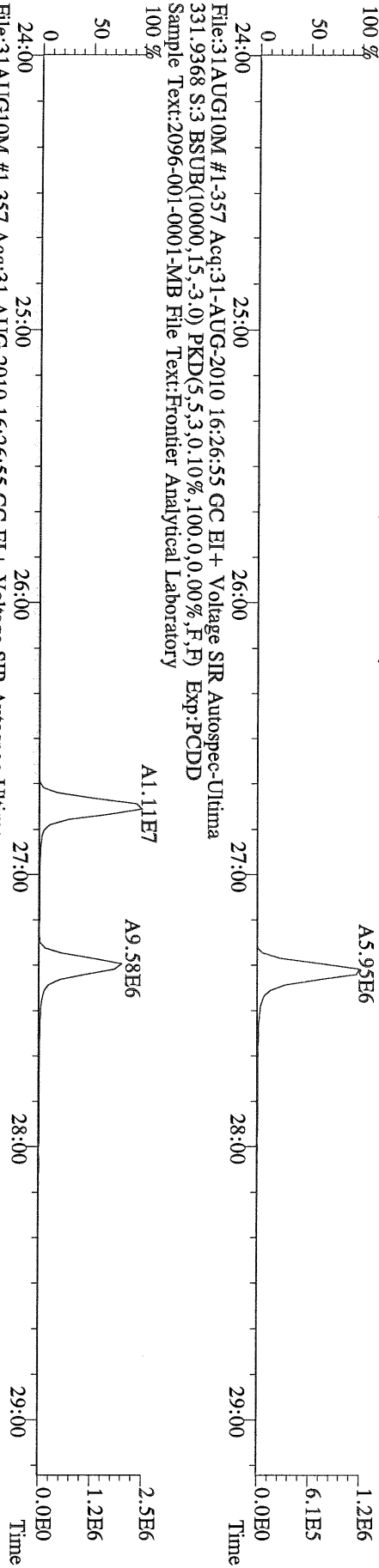
Analyst: 

Date: 9/1/10

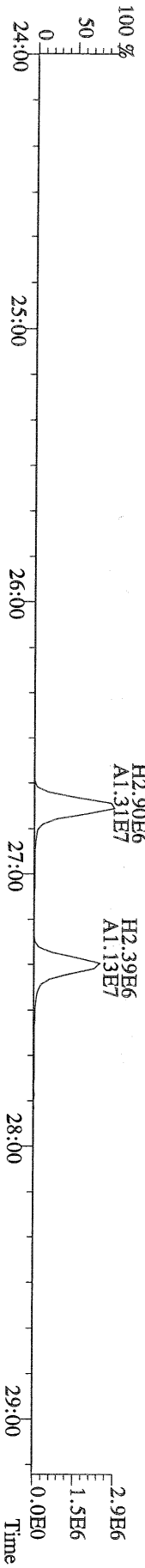
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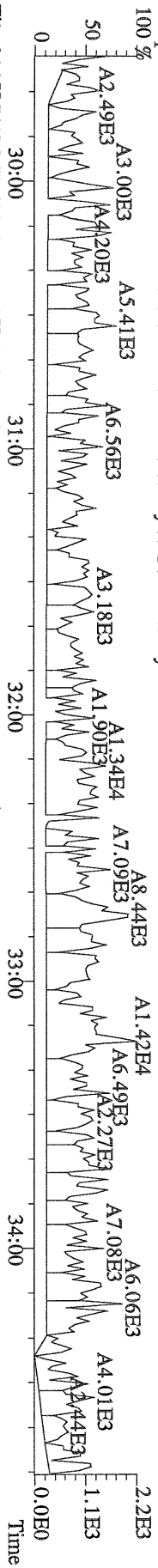
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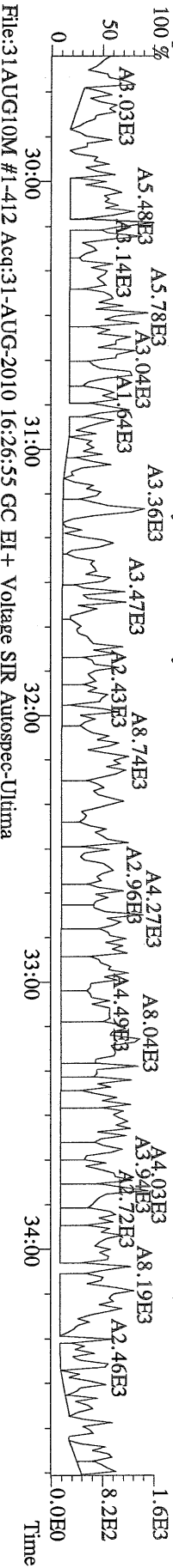
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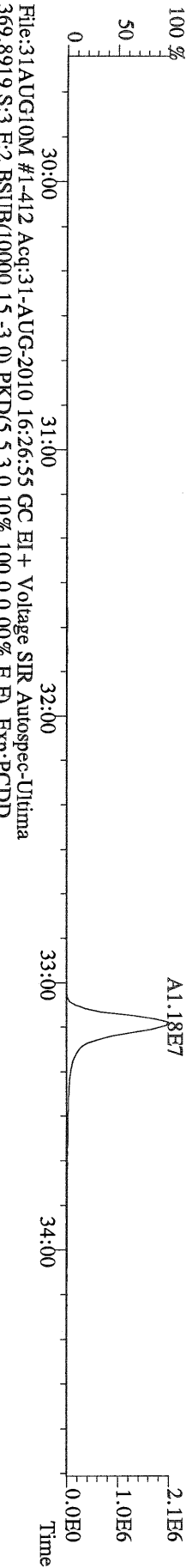
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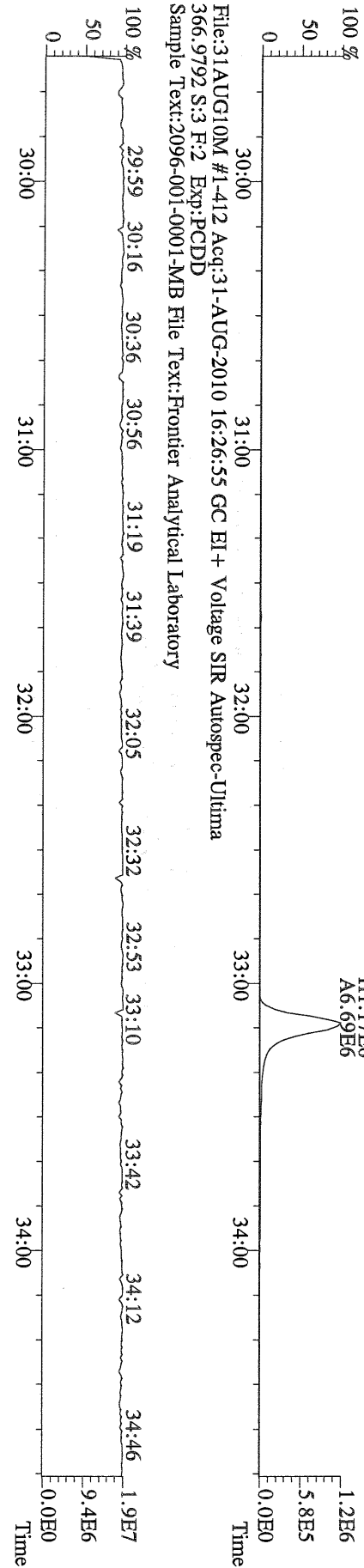
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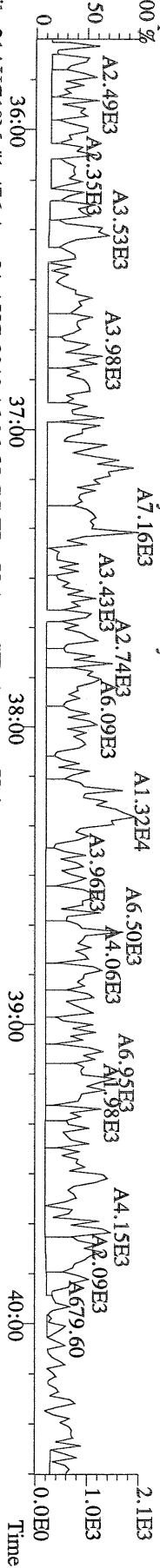
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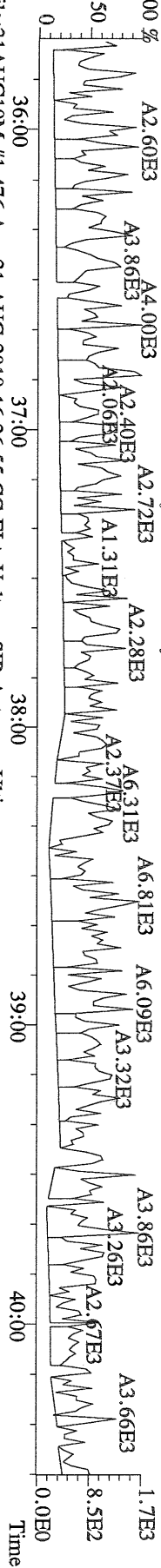
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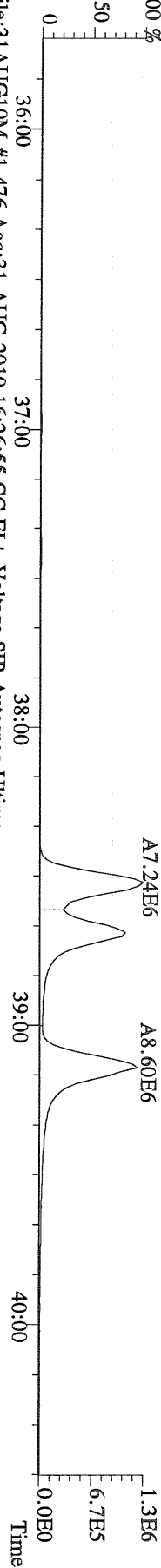
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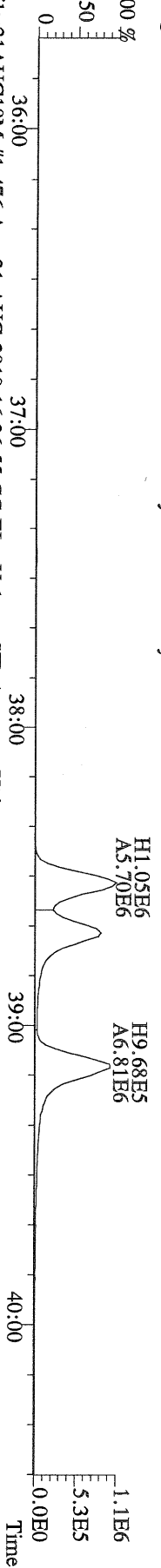
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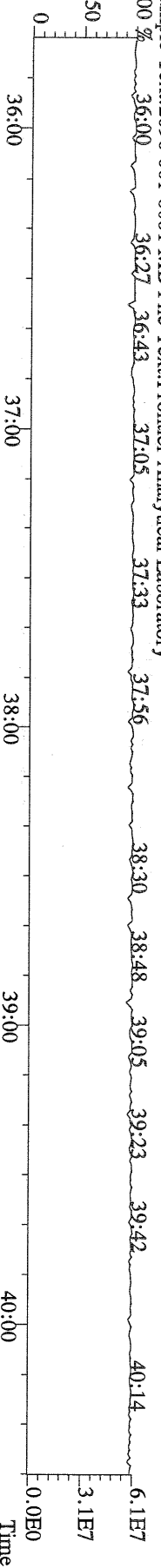
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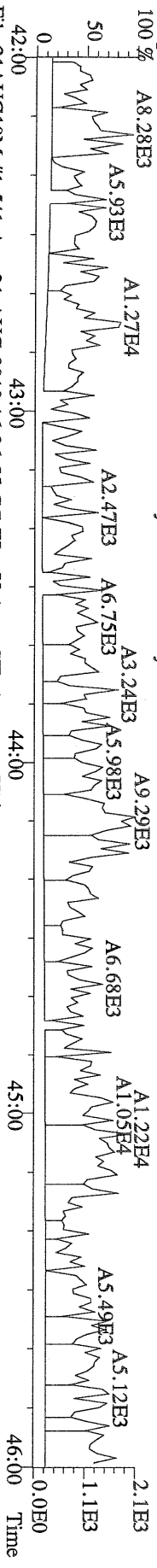
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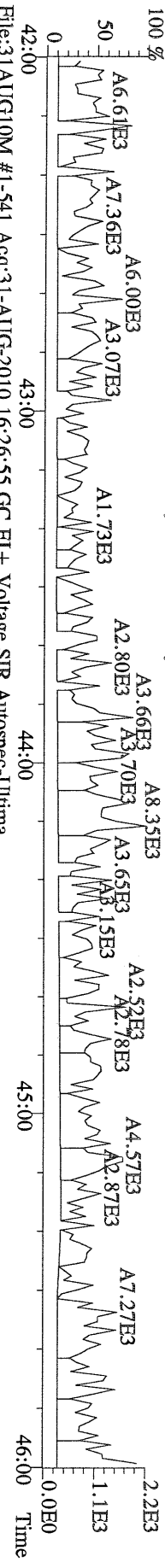
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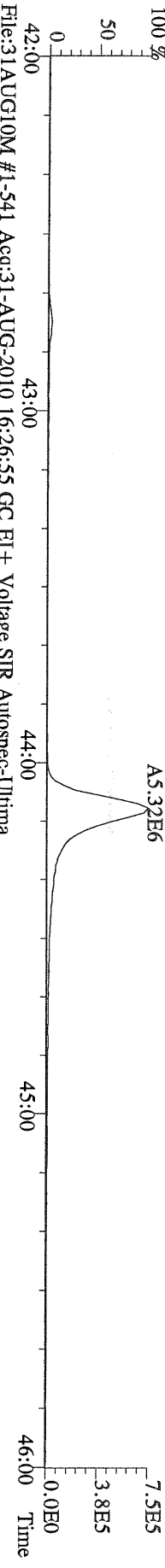
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423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



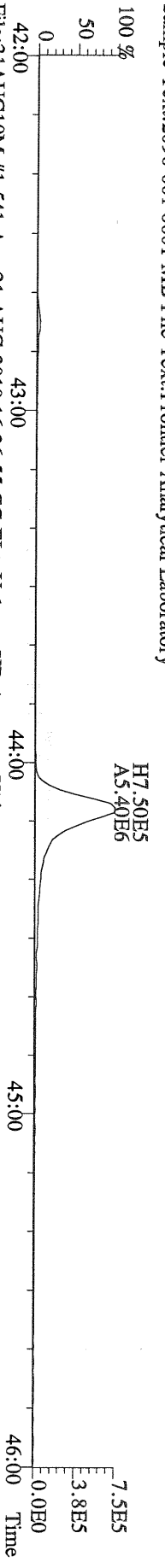
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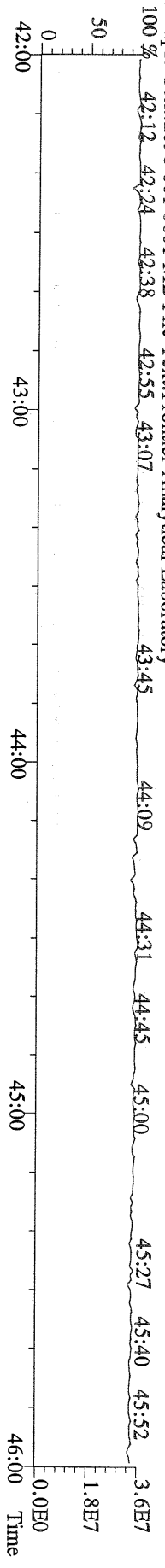
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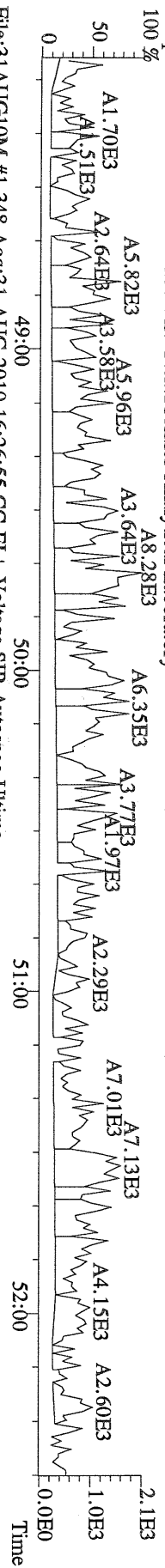


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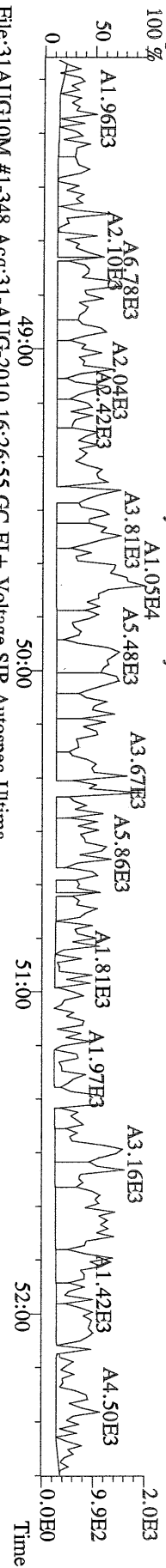




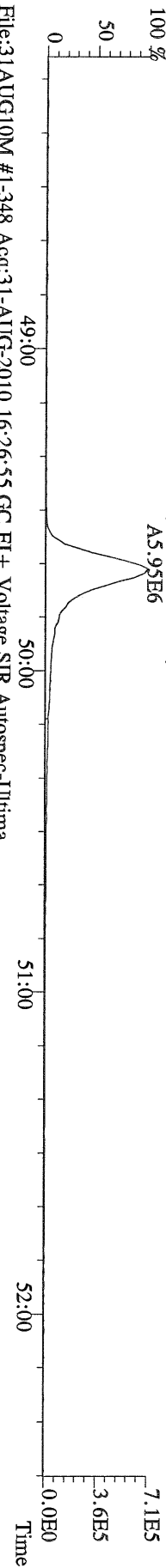
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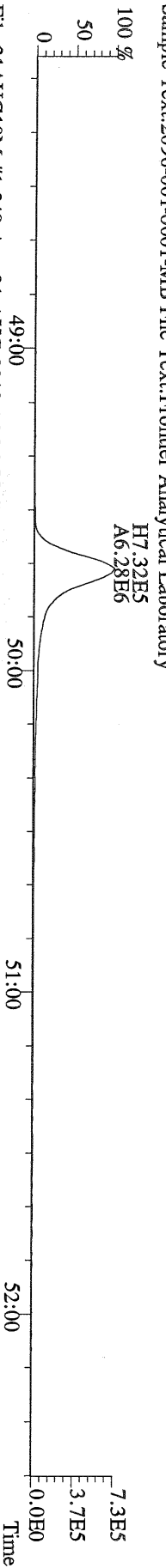
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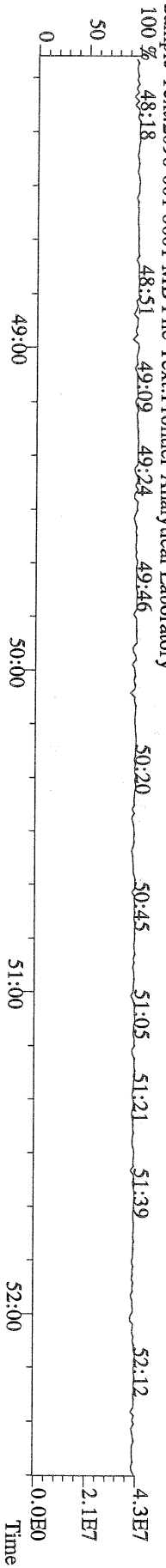
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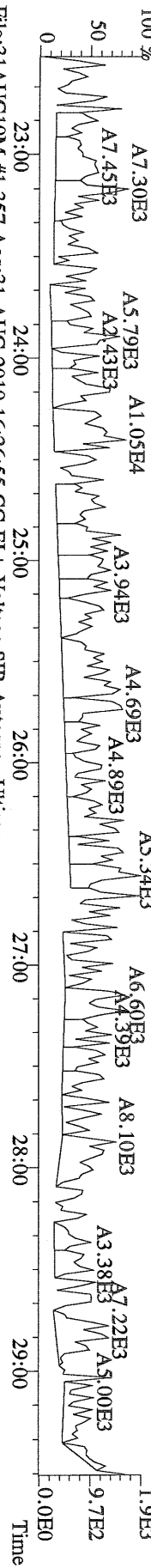
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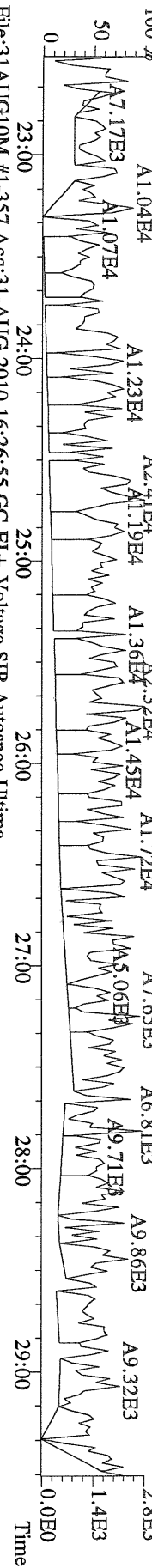
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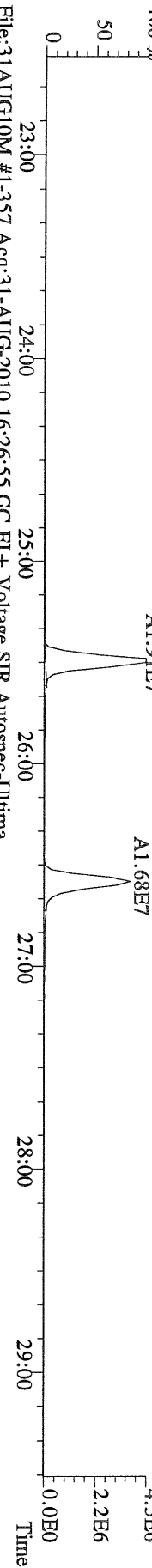
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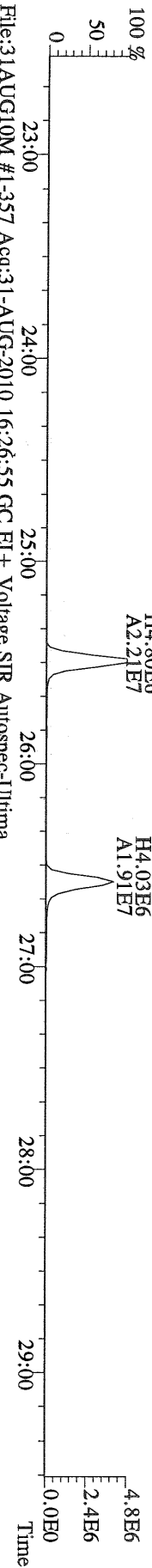
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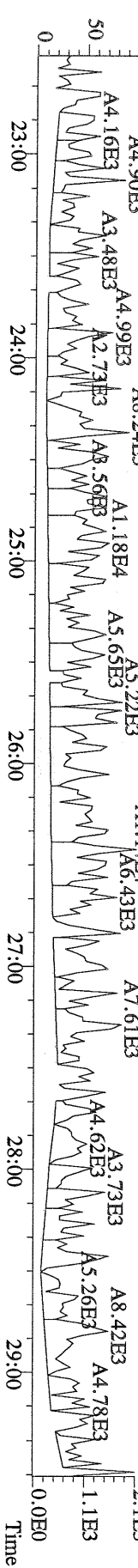
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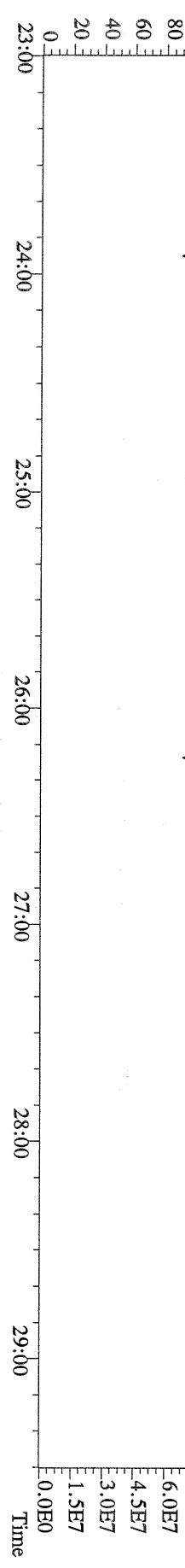
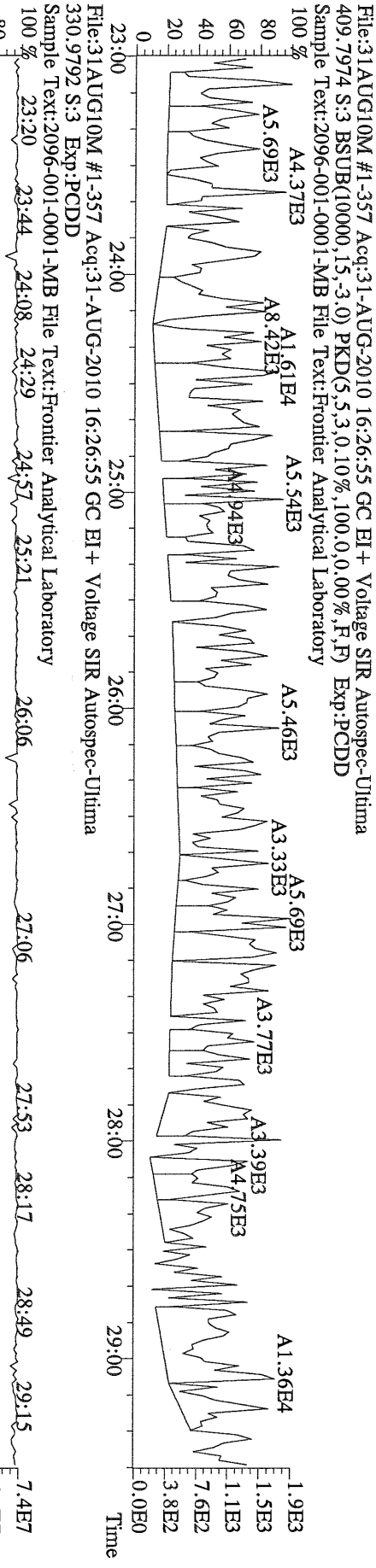
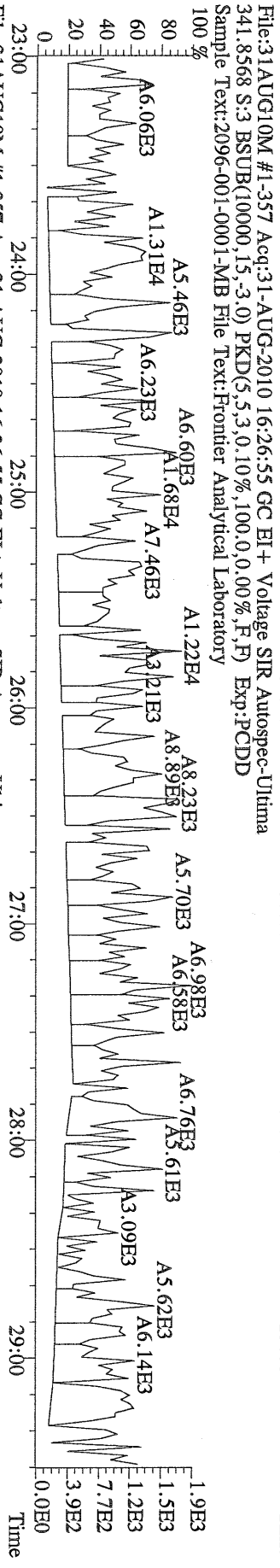
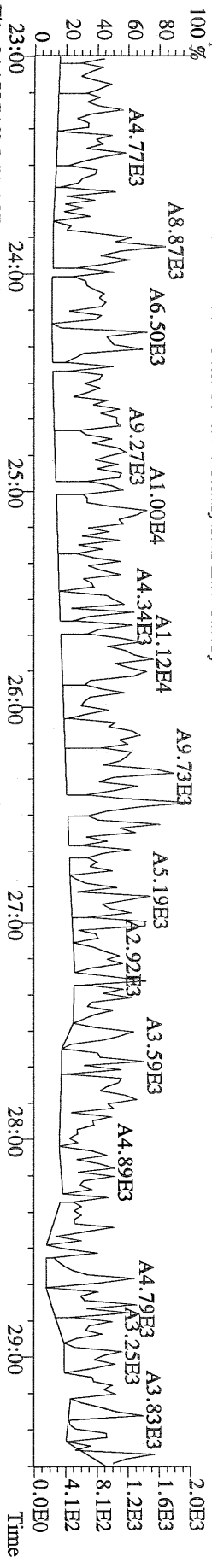
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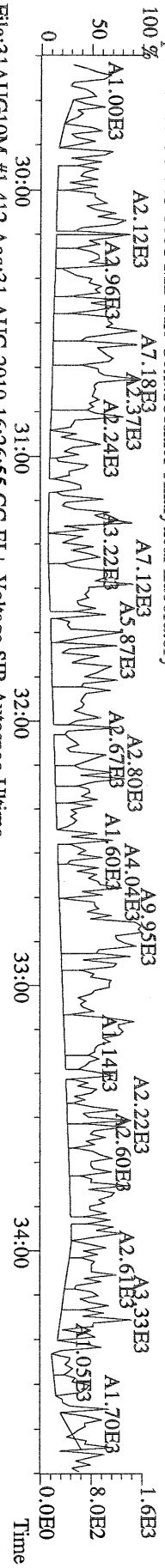
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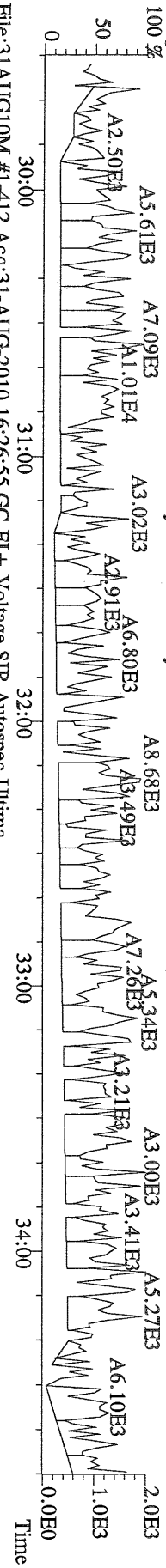
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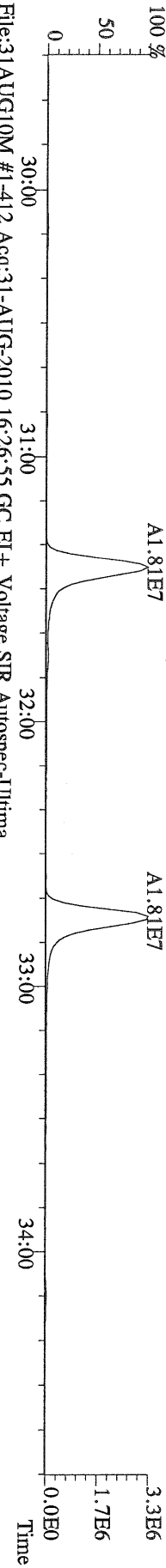
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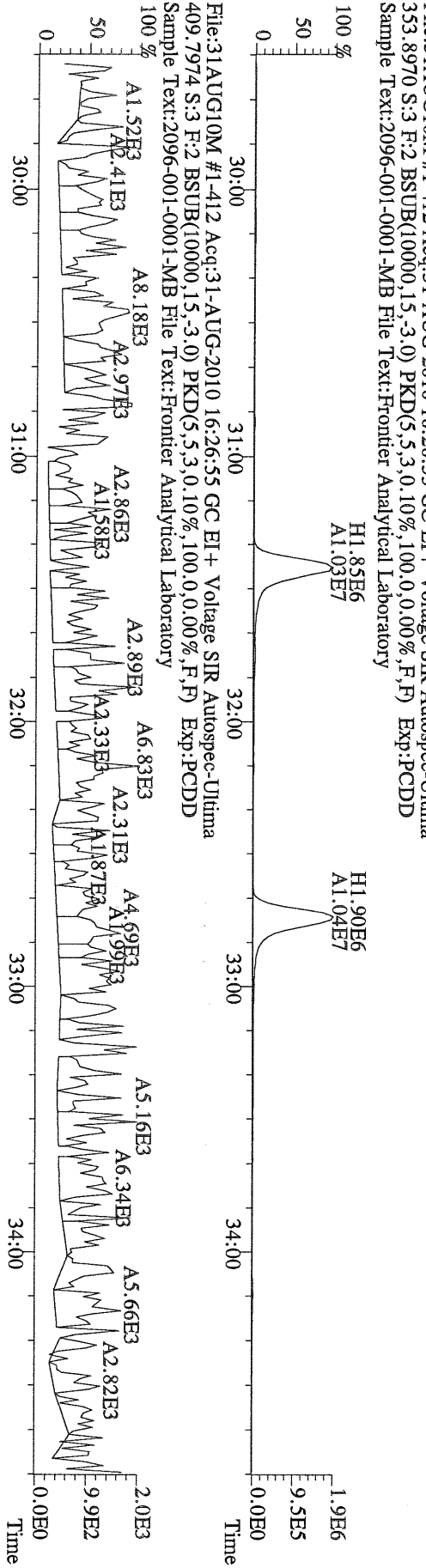
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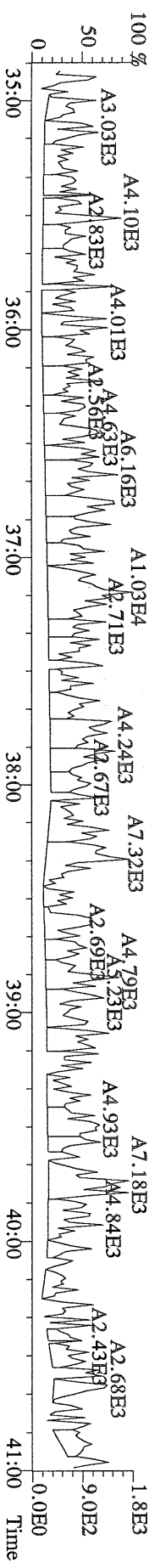
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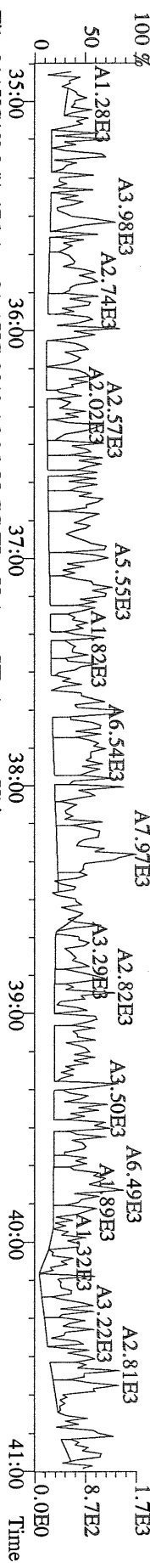
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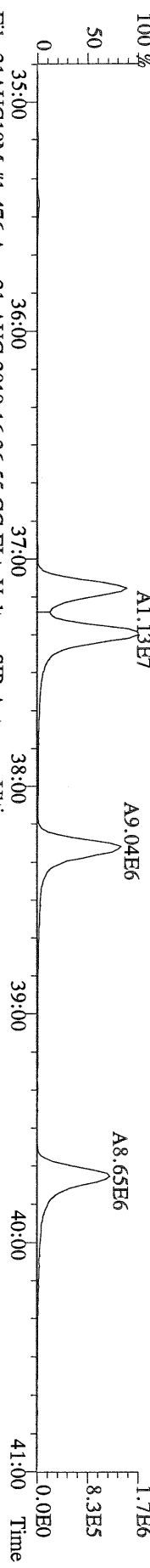
File:31AUG10M #1-476 Acq:31-AUG-2010 16:26:55 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



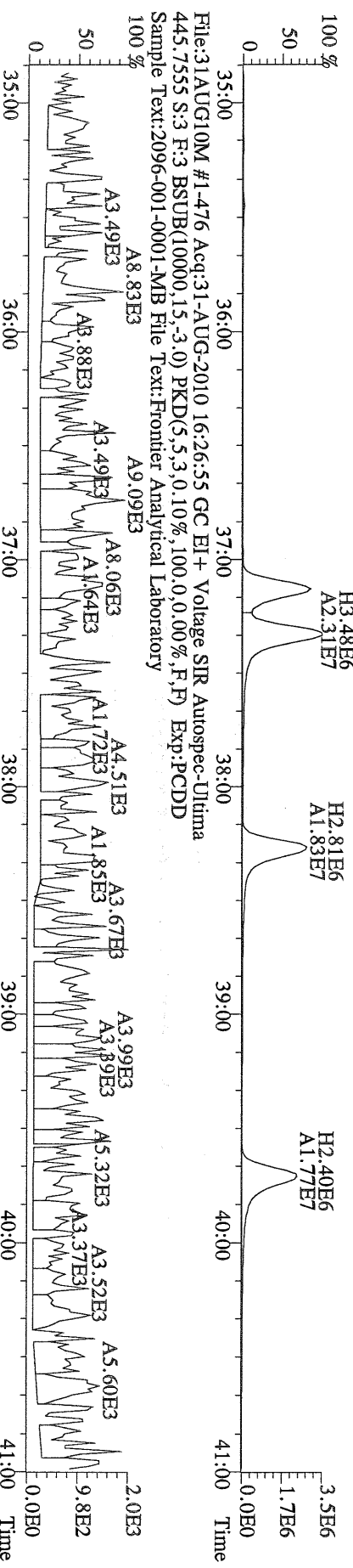
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 375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



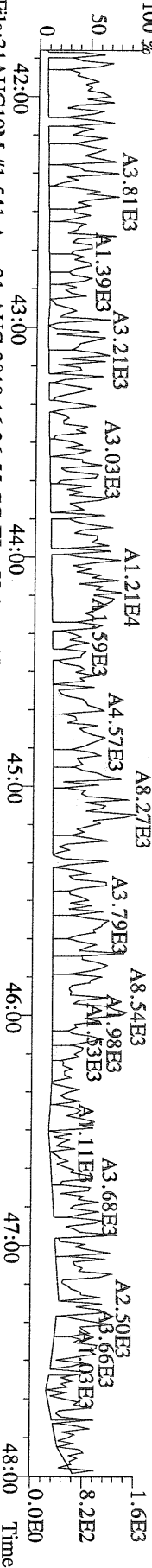
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 385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



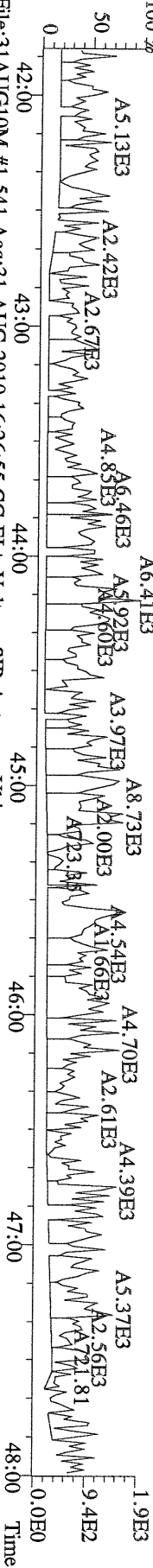
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 Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



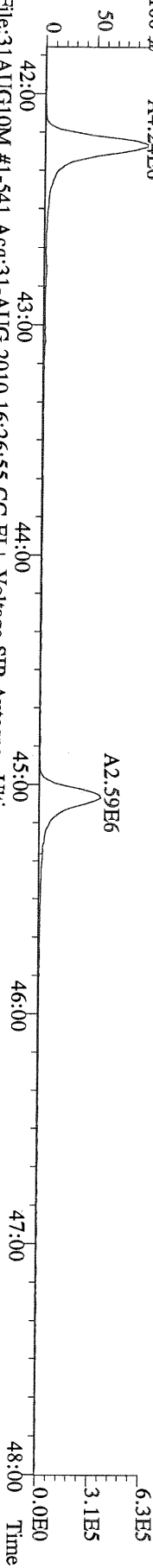
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407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



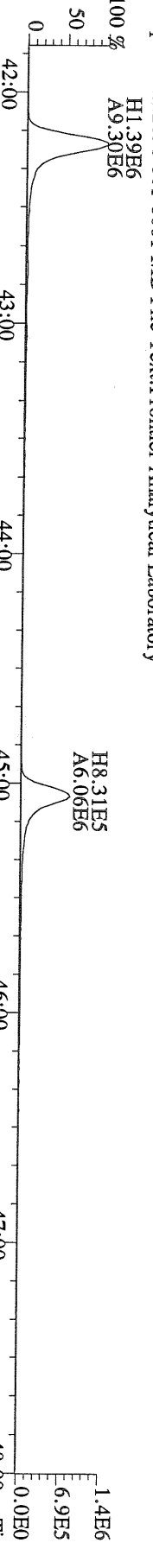
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409.7788 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



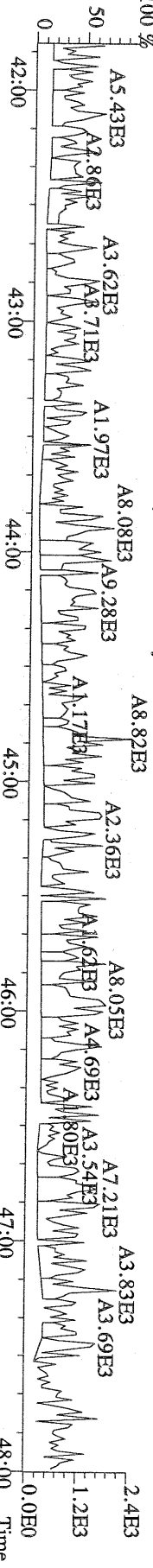
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417.8253 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



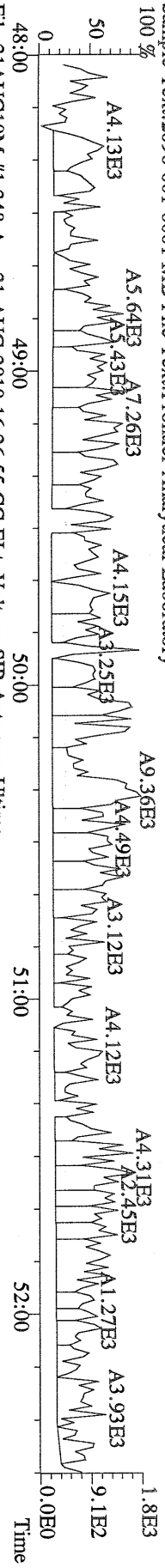
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419.8220 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



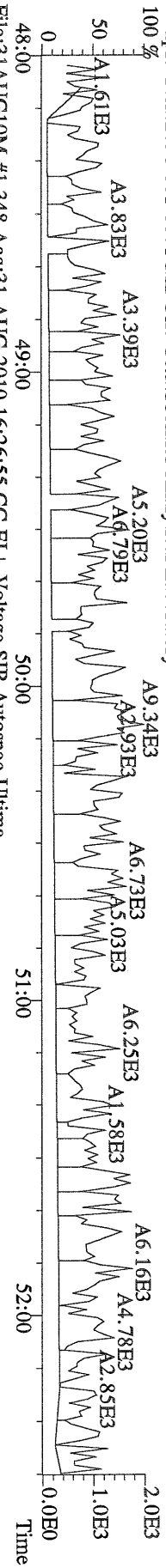
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479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



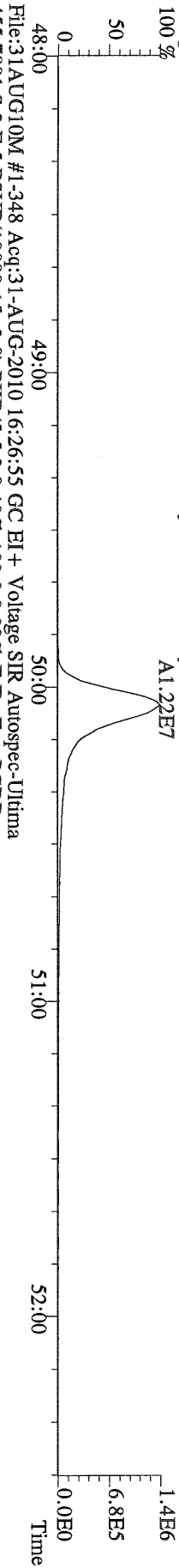
File:31AUG10M #1-348 Acq:31-AUG-2010 16:26:55 GC EI+ Voltage SIR Autospec-Ultima  
 441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



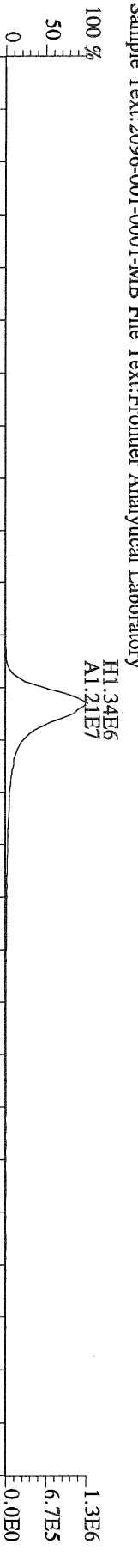
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 443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



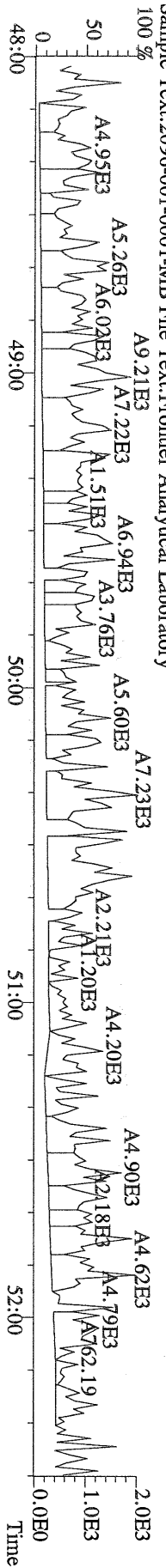
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 453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 16:26:55 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:2096-001-0001-MB File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 16:26:55 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:PCDD  
 Sample Text:2096-001-0001-MB File Text:Frontier Analytical Laboratory



## USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory      Episode No.:

Contract No.:      SAS No.:

Matrix (aqueous/solid/leachate): Aqueous      OPR Data Filename: 31AUG10M      Sam:2

Ext. Date: 8/30/10      Shift: Day      Analysis Date: 31-AUG-10      15:31:30

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	9.32	6.70 - 15.8
1,2,3,7,8-PeCDD	50	51.1	35.0 - 71.0
1,2,3,4,7,8-HxCDD	50	47.9	35.0 - 82.0
1,2,3,6,7,8-HxCDD	50	48.4	38.0 - 67.0
1,2,3,7,8,9-HxCDD	50	50.6	32.0 - 81.0
1,2,3,4,6,7,8-HpCDD	50	48.3	35.0 - 70.0
OCDD	100	99.5	78.0 - 144
2,3,7,8-TCDF	10	9.25	7.50 - 15.8
1,2,3,7,8-PeCDF	50	50.6	40.0 - 67.0
2,3,4,7,8-PeCDF	50	51.6	34.0 - 80.0
1,2,3,4,7,8-HxCDF	50	47.5	36.0 - 67.0
1,2,3,6,7,8-HxCDF	50	47.7	42.0 - 65.0
2,3,4,6,7,8-HxCDF	50	48.1	35.0 - 78.0
1,2,3,7,8,9-HxCDF	50	48.5	39.0 - 65.0
1,2,3,4,6,7,8-HpCDF	50	50.3	41.0 - 61.0
1,2,3,4,7,8,9-HpCDF	50	49.9	39.0 - 69.0
OCDF	100	89.2	63.0 - 170

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

Analyst: 

Date: 9/1/10



## USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory      Episode No.:

Contract No.:      SAS No.:

Matrix (aqueous/solid/leachate): Aqueous      OPR Data Filename: 31AUG10M      Sam:2

Ext. Date: 8/30/10      Shift: Day      Analysis Date: 31-AUG-10      15:31:30

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (1) (ng/mL)
LABELED COMPOUNDS			
13C-2,3,7,8-TCDD	100	84.6	20.0 - 175
13C-1,2,3,7,8-PeCDD	100	97.6	21.0 - 227
13C-1,2,3,4,7,8-HxCDD	100	83.8	21.0 - 193
13C-1,2,3,6,7,8-HxCDD	100	88.2	25.0 - 163
13C-1,2,3,4,6,7,8-HpCDD	100	86.4	26.0 - 166
13C-OCDD	200	162	26.0 - 397
13C-2,3,7,8-TCDF	100	87.2	22.0 - 152
13C-1,2,3,7,8-PeCDF	100	86.1	21.0 - 192
13C-2,3,4,7,8-PeCDF	100	87.9	13.0 - 328
13C-1,2,3,4,7,8-HxCDF	100	89.6	19.0 - 202
13C-1,2,3,6,7,8-HxCDF	100	93.2	21.0 - 159
13C-2,3,4,6,7,8-HxCDF	100	90.4	22.0 - 176
13C-1,2,3,7,8,9-HxCDF	100	89.9	17.0 - 205
13C-1,2,3,4,6,7,8-HpCDF	100	86.1	21.0 - 158
13C-1,2,3,4,7,8,9-HpCDF	100	79.0	20.0 - 186
13C-OCDF	200	171	26.0 - 397
CLEANUP STANDARD			
37Cl-2,3,7,8-TCDD	40	35.7	12.4 - 76.4

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

Analyst: 

Date: 9/1/10

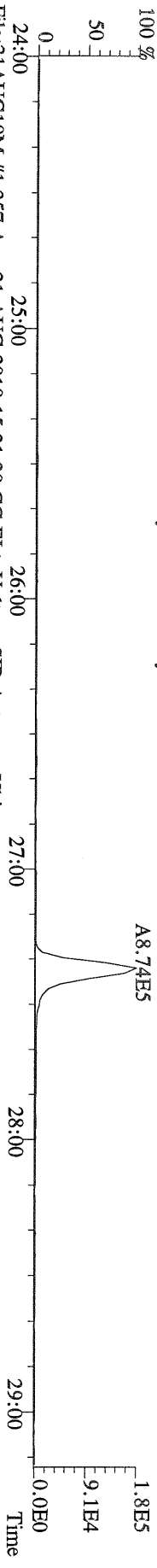
Results:      GC Column: DB5      Amount: 1.000      NATO 1989 Tox: 99.7      WHO 1998 Tox: 125      WHO 2005 Tox: 114

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	114
2,3,7,8-TCDD	2.02e+06	0.76 y	27:22	1.11	9.32	2.50	-	-	*	
1,2,3,7,8-PeCDD	1.04e+07	1.49 y	33:11	1.10	51.1	2.50	-	-	*	
1,2,3,4,7,8-HxCDD	8.87e+06	1.41 y	38:33	1.37	47.9	2.50	-	-	*	
1,2,3,6,7,8-HxCDD	8.90e+06	1.33 y	38:43	1.37	48.4	2.50	-	-	*	
1,2,3,7,8,9-HxCDD	9.26e+06	1.38 y	39:09	1.36	50.6	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	7.78e+06	0.92 y	44:09	1.45	48.3	2.50	-	-	*	
OCDD	9.45e+06	0.95 y	49:43	1.43	99.5	2.50	-	-	*	
2,3,7,8-TCDF	4.63e+06	0.68 y	26:37	1.50	9.25	2.50	-	-	*	
1,2,3,7,8-PeCDF	1.32e+07	1.60 y	31:27	0.94	50.6	2.50	-	-	*	
2,3,4,7,8-PeCDF	1.33e+07	1.61 y	32:46	0.94	51.6	2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.10e+07	1.26 y	37:09	0.93	47.5	2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.39e+07	1.26 y	37:22	0.82	47.7	2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.21e+07	1.27 y	38:17	0.92	48.1	2.50	-	-	*	
1,2,3,7,8,9-HxCDF	1.32e+07	1.28 y	39:44	1.00	48.5	2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	1.00e+07	1.04 y	42:15	1.39	50.3	2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	6.44e+06	1.04 y	45:04	1.36	49.9	2.50	-	-	*	
OCDF	9.73e+06	0.87 y	50:04	0.79	89.2	2.50	-	-	*	
										Rec
13C-2,3,7,8-TCDD	1.95e+07	0.86 y	27:21	1.02	84.6					84.6
13C-1,2,3,7,8-PeCDD	1.85e+07	1.75 y	33:10	0.84	97.6					97.6
13C-1,2,3,4,7,8-HxCDD	1.35e+07	1.27 y	38:32	1.07	83.8					83.8
13C-1,2,3,6,7,8-HxCDD	1.34e+07	1.25 y	38:41	1.01	88.2					88.2
13C-1,2,3,4,6,7,8-HpCDD	1.11e+07	0.98 y	44:08	0.86	86.4					86.4
13C-OCDD	1.32e+07	0.97 y	49:41	0.55	162					80.9
13C-2,3,7,8-TCDF	3.34e+07	0.87 y	26:36	0.99	87.2					87.2
13C-1,2,3,7,8-PeCDF	2.77e+07	1.75 y	31:26	0.84	86.1					86.1
13C-2,3,4,7,8-PeCDF	2.74e+07	1.74 y	32:45	0.81	87.9					87.9
13C-1,2,3,4,7,8-HxCDF	2.49e+07	0.51 y	37:08	1.85	89.6					89.6
13C-1,2,3,6,7,8-HxCDF	3.54e+07	0.49 y	37:20	2.54	93.2					93.2
13C-2,3,4,6,7,8-HxCDF	2.73e+07	0.50 y	38:17	2.01	90.4					90.4
13C-1,2,3,7,8,9-HxCDF	2.74e+07	0.50 y	39:43	2.03	89.9					89.9
13C-1,2,3,4,6,7,8-HpCDF	1.43e+07	0.44 y	42:14	1.11	86.1					86.1
13C-1,2,3,4,7,8,9-HpCDF	9.52e+06	0.43 y	45:03	0.80	79.0					79.0
13C-OCDF	2.77e+07	1.01 y	50:04	1.08	171					85.5
37Cl-2,3,7,8-TCDD	5.52e+06		27:22	0.69	35.7					89.4
13C-1,2,3,4-TCDD	2.25e+07	0.86 y	26:46	-	50.1					
13C-1,2,3,4-TCDF	3.85e+07	0.86 y	25:30	-	53.2					
13C-1,2,3,7,8,9-HxCDD	1.50e+07	1.26 y	39:09	-	54.4					
						Fac Noise-1	Noise-2	DL	#Hom	
Total Tetra-Dioxins	2.29e+06		22:51	1.11	10.6	2.50	-	-	*	26
Total Penta-Dioxins	1.05e+07		31:27	1.10	51.5	2.50	-	-	*	5
Total Hexa-Dioxins	2.75e+07		35:02	1.37	150	2.50	-	-	*	19
Total Hepta-Dioxins	8.28e+06		42:13	1.45	51.4	2.50	-	-	*	30
Total Tetra-Furans	5.02e+06		23:00	1.50	10.0	2.50	-	-	*	16
1st Fn. Tot Penta-Furans	2.45e+05		22:49	0.94	0.945	2.50	-	-	*	PeCDF 28
Total Penta-Furans	2.77e+07		30:12	0.94	107	2.50	-	-	*	108 26
Total Hexa-Furans	5.08e+07		35:14	0.91	194	2.50	-	-	*	23
Total Hepta-Furans	1.71e+07		42:15	1.38	104	2.50	-	-	*	12

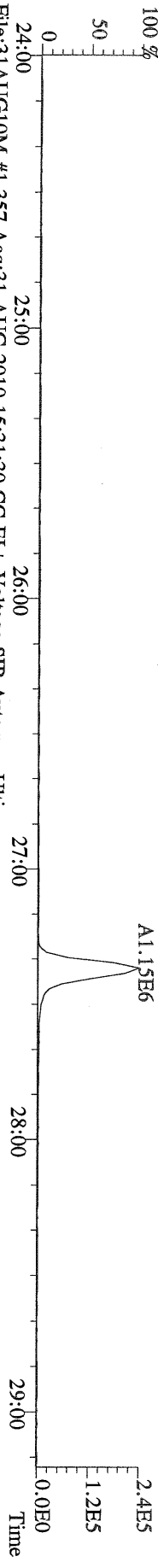
Analyst: 

Date: 9/1/10

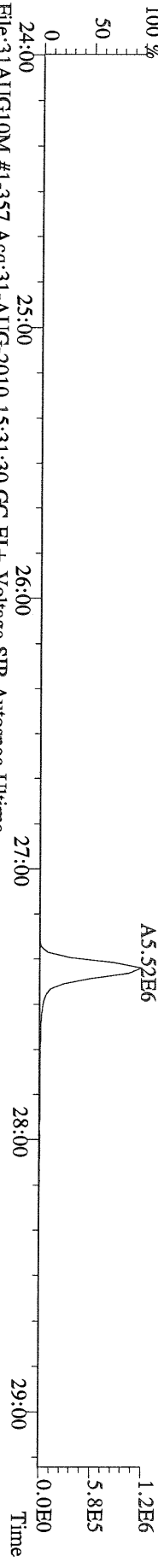
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319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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100 %



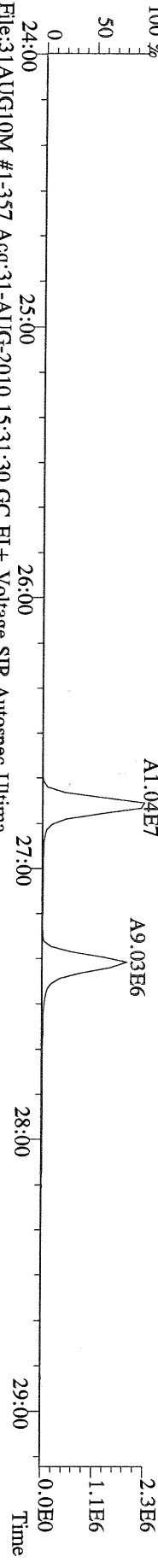
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321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



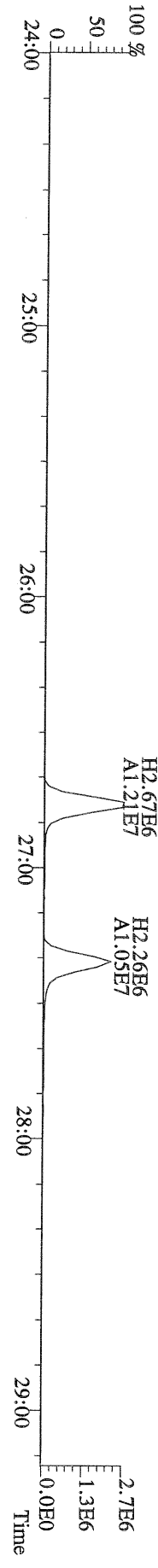
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327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



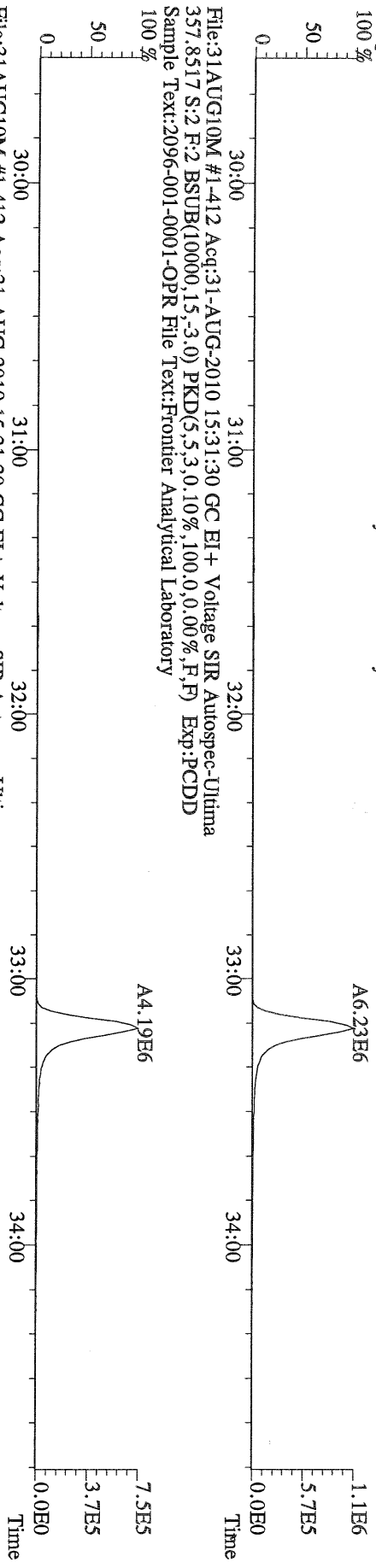
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331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



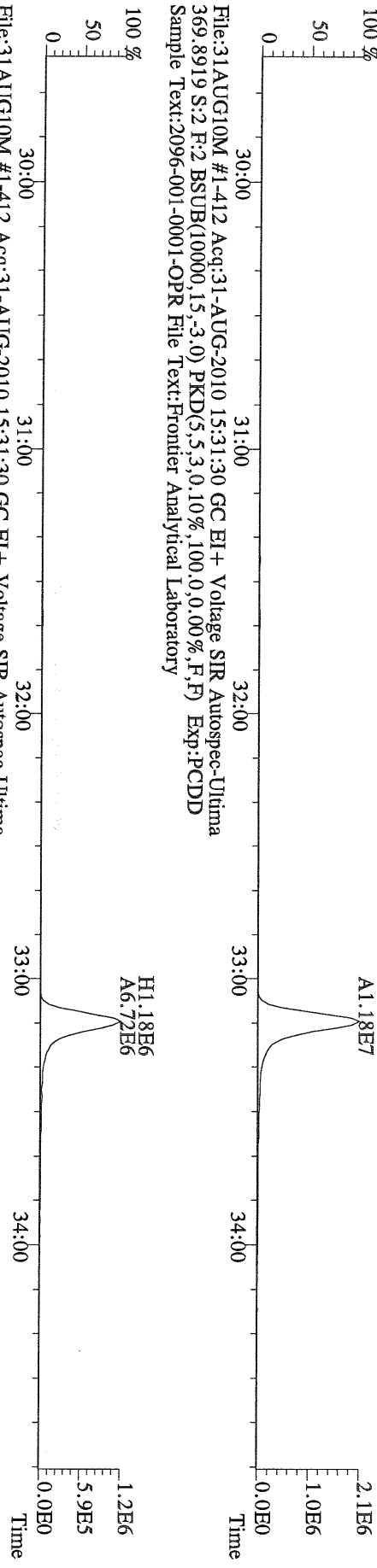
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333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



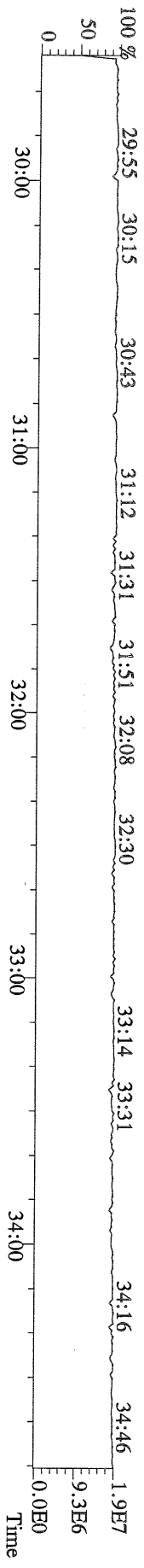
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355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory  
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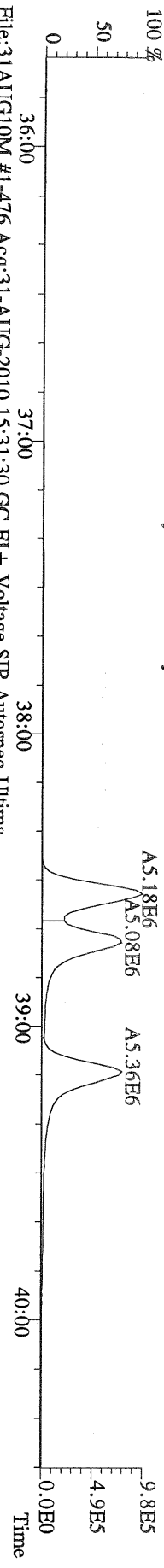
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367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory  
100 %



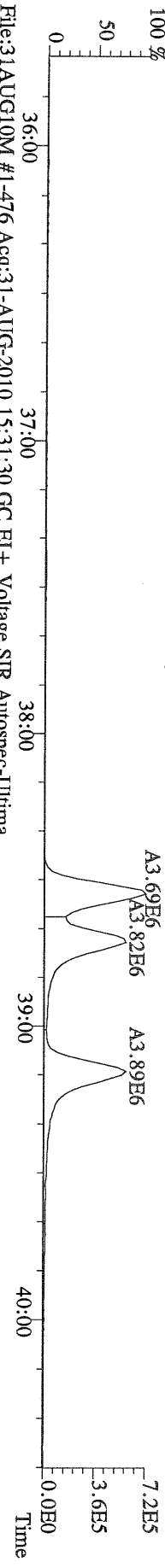
File:31AUG10M #1-412 Acq:31-AUG-2010 15:31:30 GC EI+ Voltage SIR Autospec-Ultima  
366.9792 S:2 F:2 Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



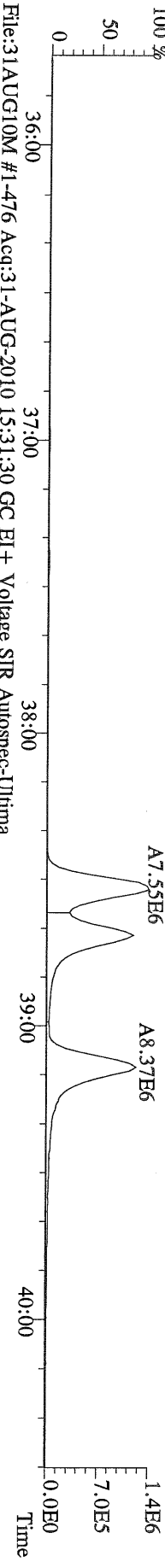
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 389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



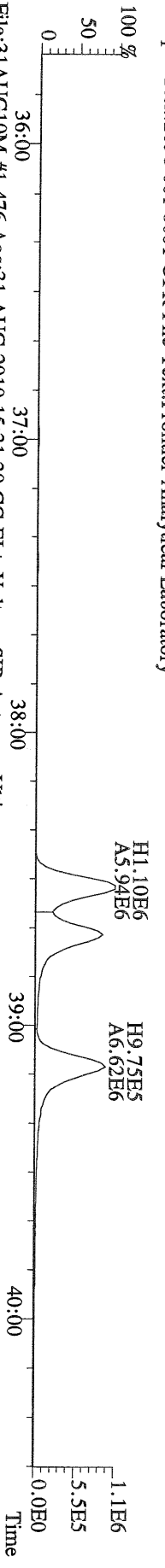
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 391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
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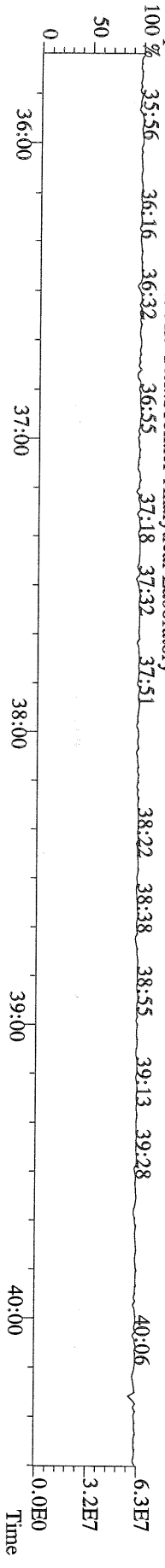
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 401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
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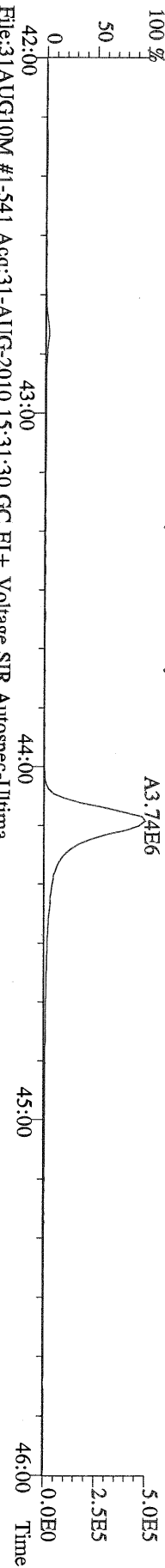
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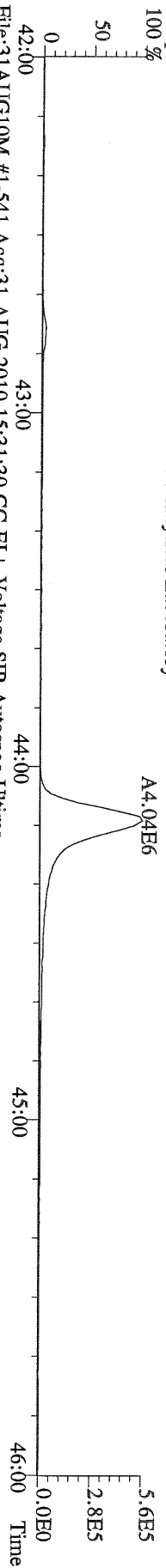
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 380.9760 S:2 F:3 Exp:PCDD  
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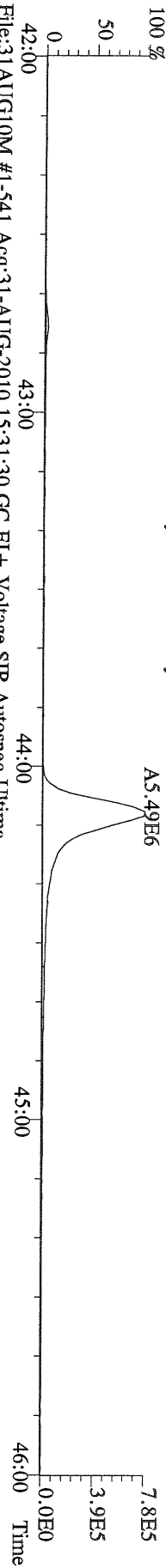
File:31AUG10M #1-541 Acq:31-AUG-2010 15:31:30 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



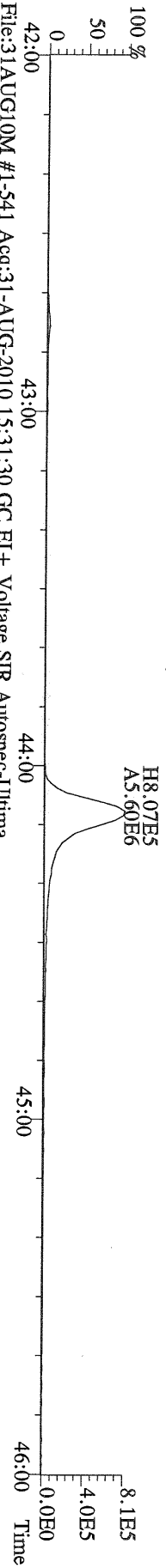
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425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



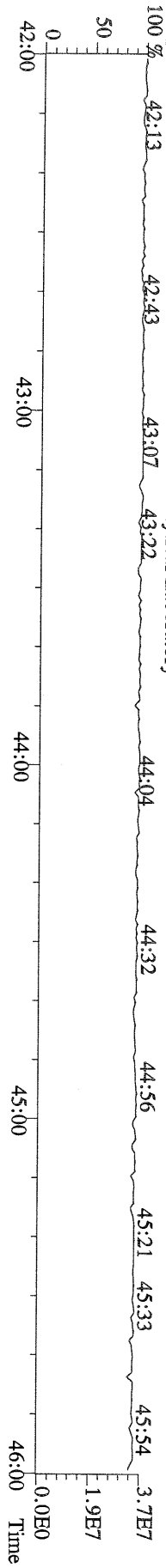
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435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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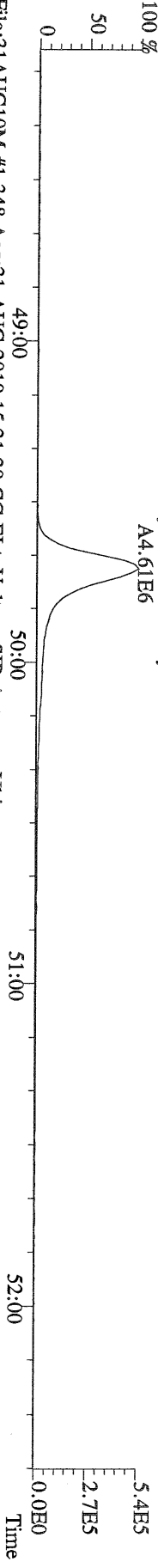
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437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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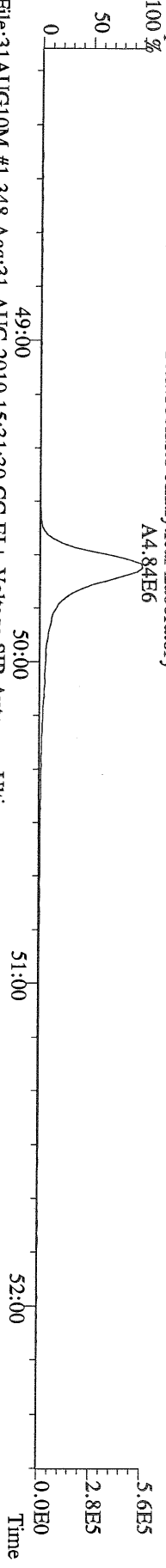
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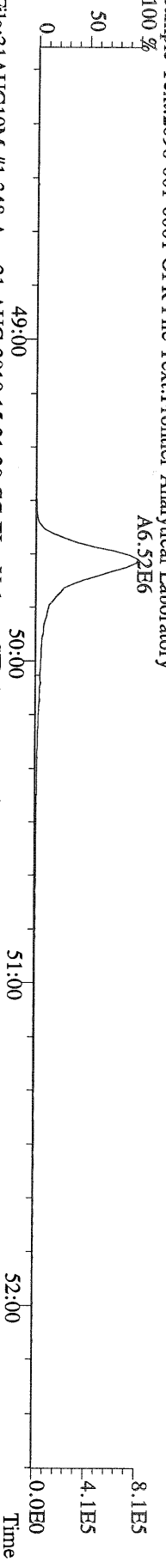
File:31AUG10M #1-348 Acq:31-AUG-2010 15:31:30 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



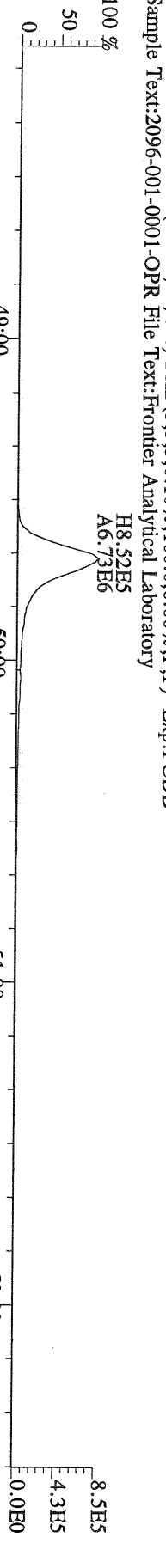
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459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



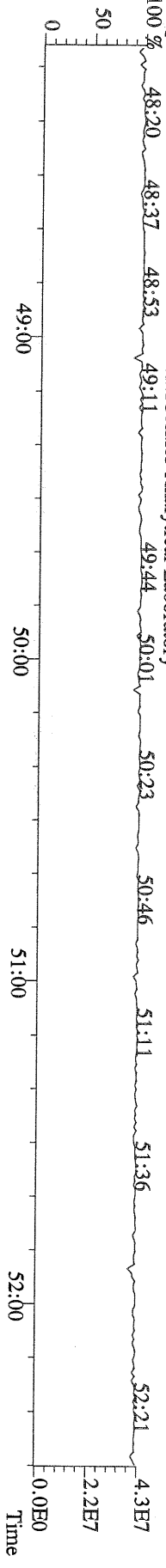
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469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



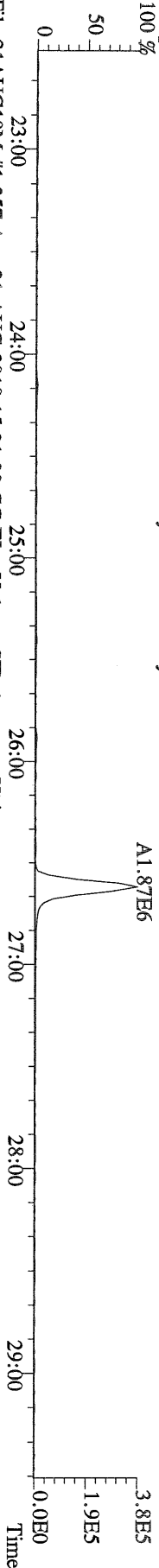
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471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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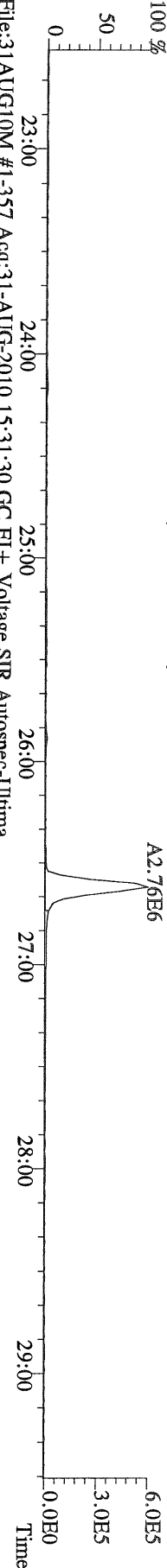
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454.9728 S:2 F:5 Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



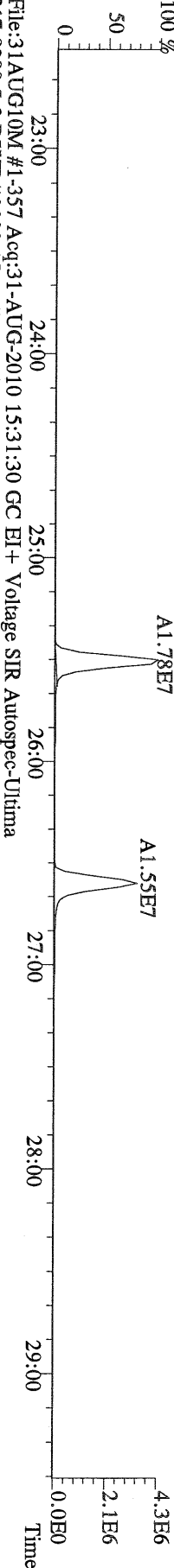
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303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



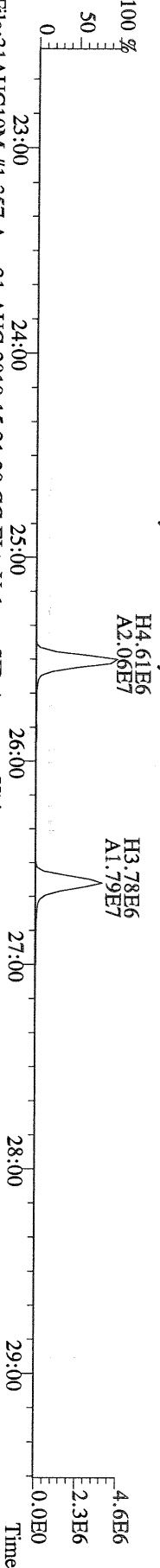
File:31AUG10M #1-357 Acq:31-AUG-2010 15:31:30 GC EI+ Voltage SIR Autospec-Ultima  
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



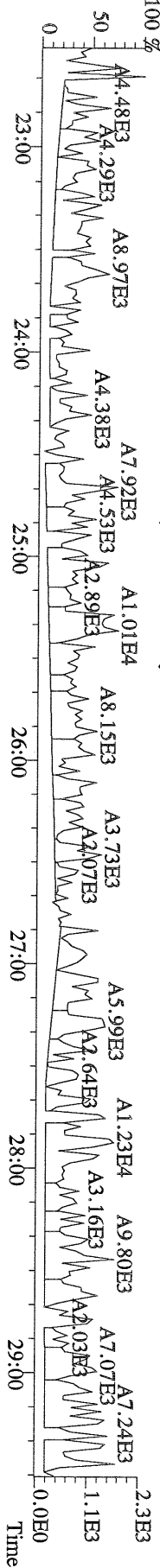
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315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31AUG10M #1-357 Acq:31-AUG-2010 15:31:30 GC EI+ Voltage SIR Autospec-Ultima  
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory

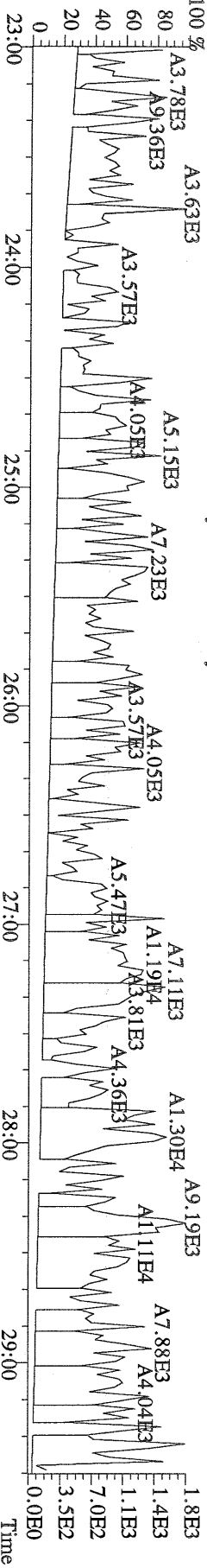


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375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory

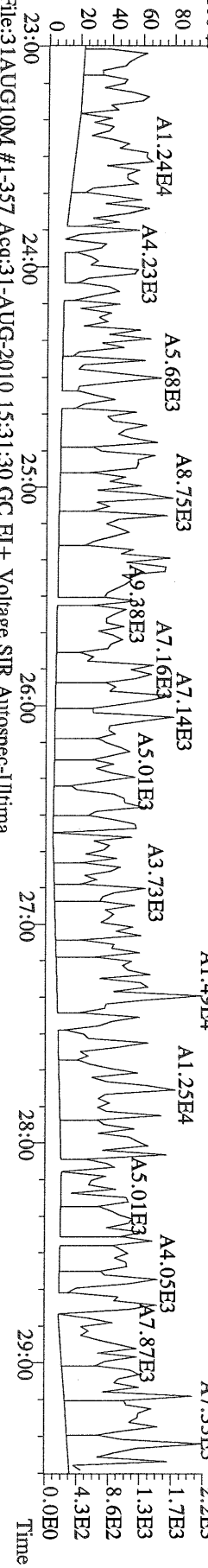




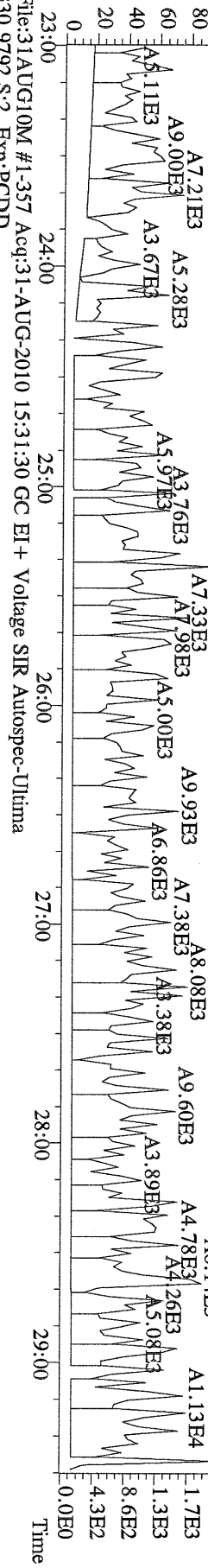
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 339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



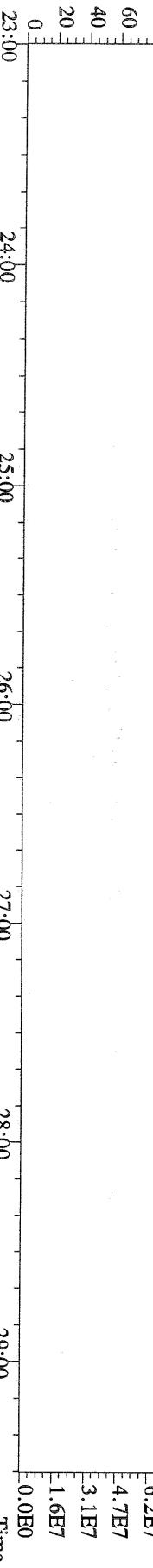
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 341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



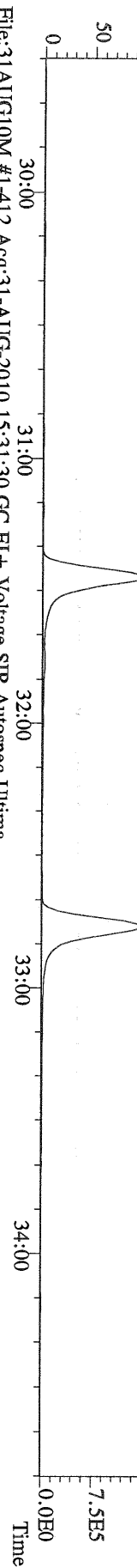
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 409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



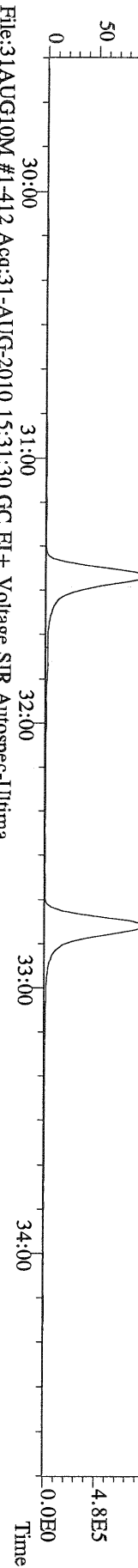
File:31AUG10M #1-357 Acq:31-AUG-2010 15:31:30 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:2 Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



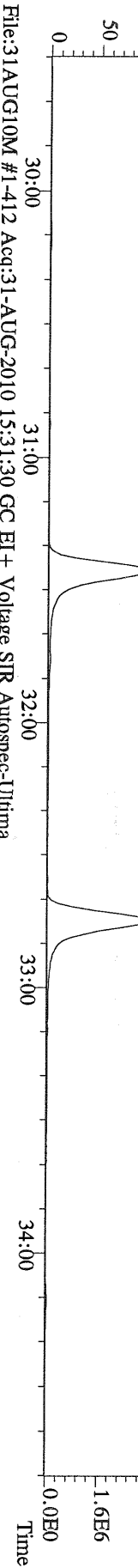
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 339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



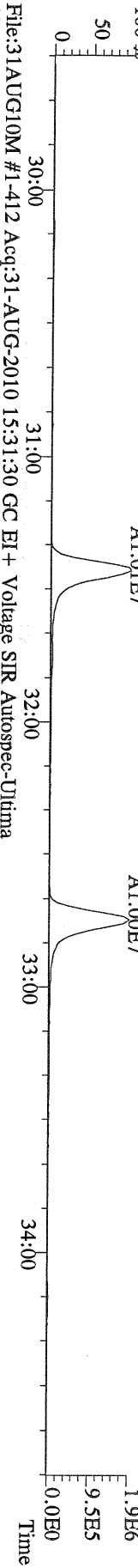
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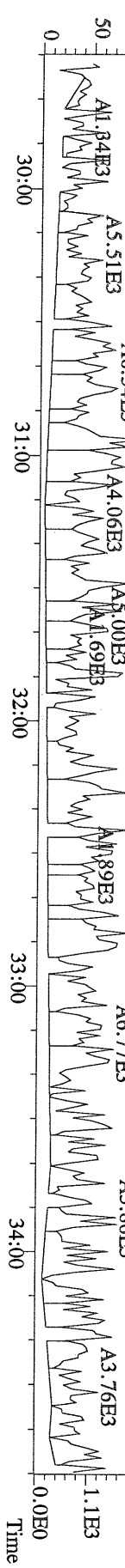
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 351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
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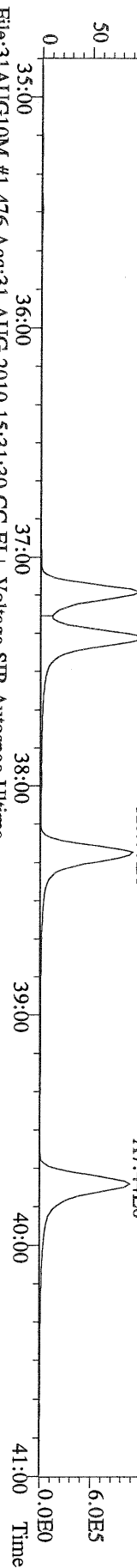
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 353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
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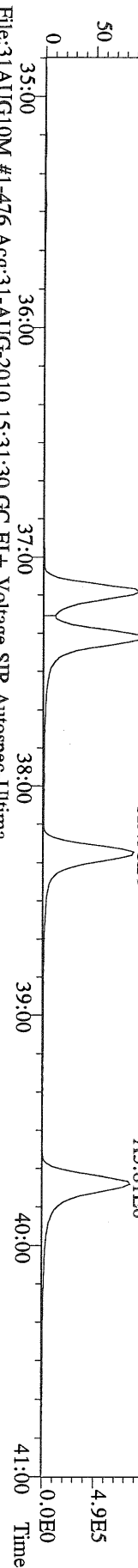
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 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



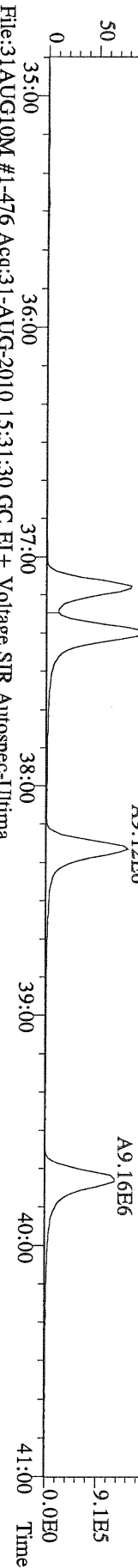
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378.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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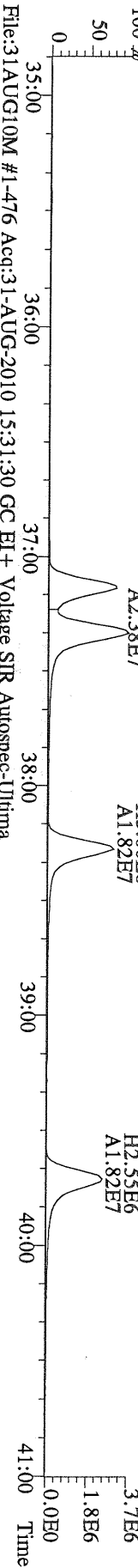
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375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



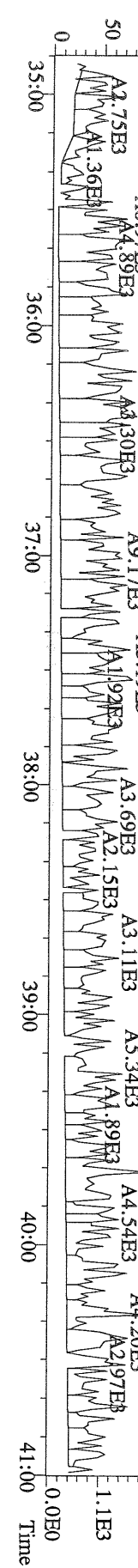
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383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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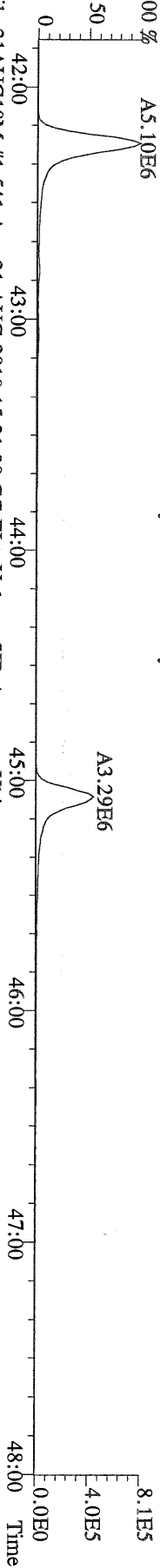
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385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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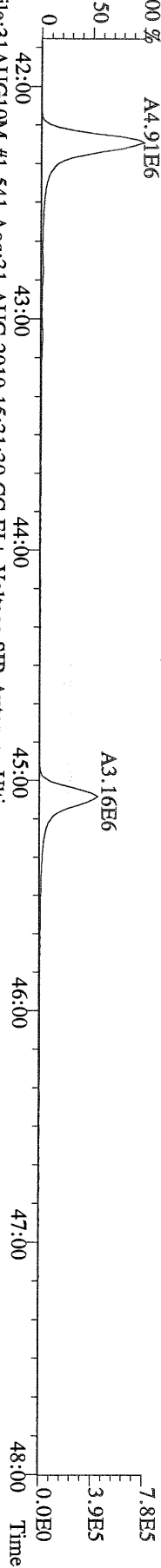
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445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



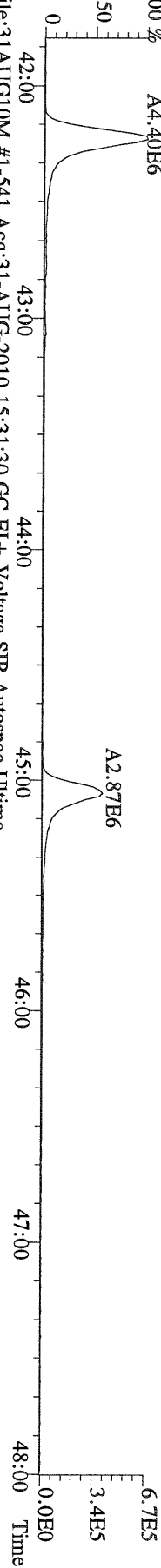
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 407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory  
 100% A5.10E6



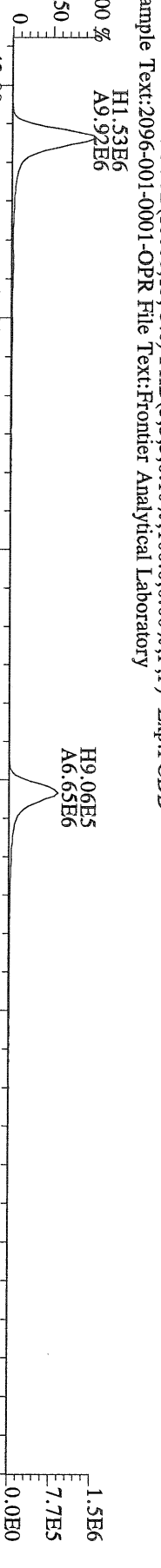
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 100% A4.91E6



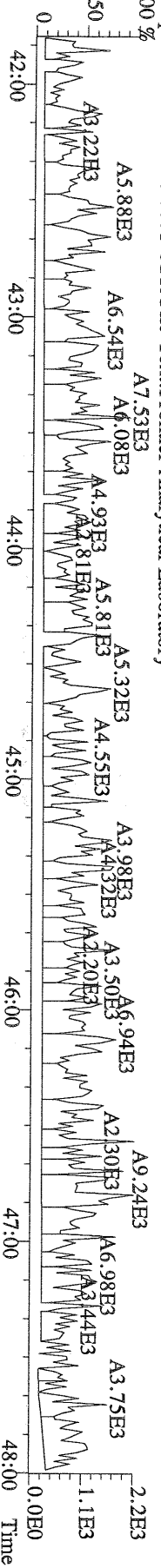
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 417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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 100% A4.40E6



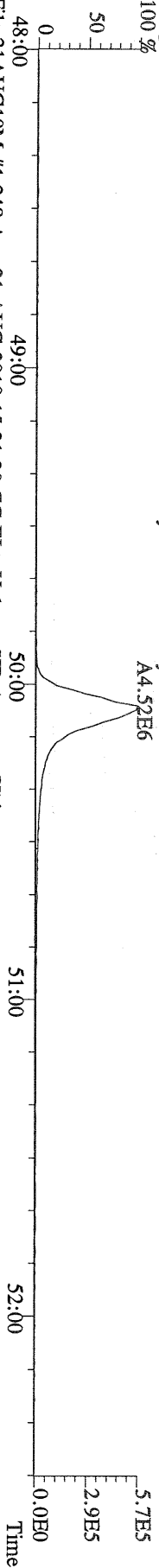
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 419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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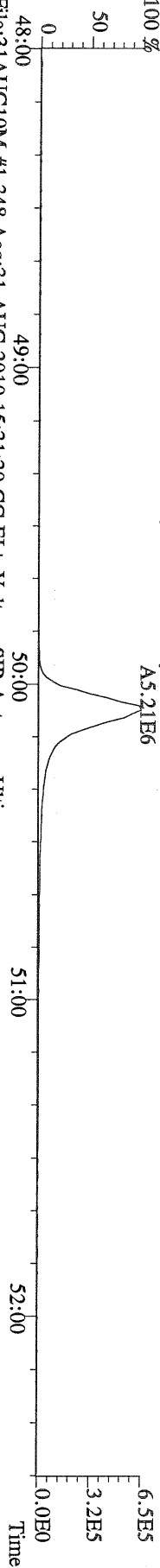
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 479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



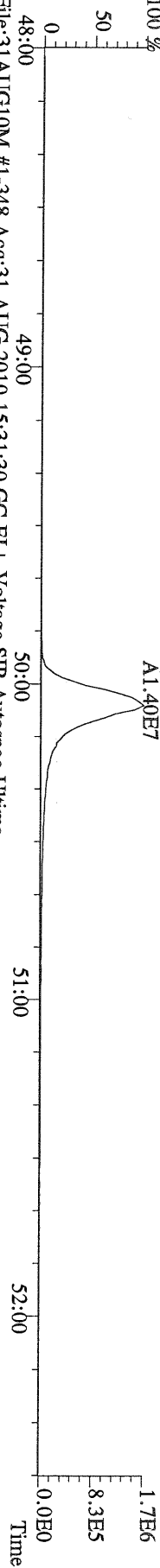
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 441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory  
 100 %



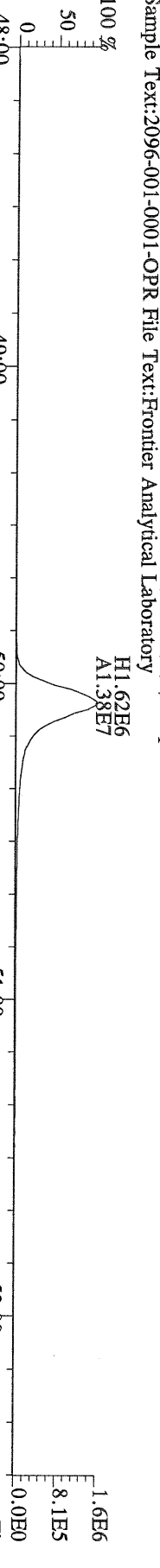
File:31AUG10M #1-348 Acq:31-AUG-2010 15:31:30 GC EI+ Voltage SIR Autospec-Ultima  
 443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory  
 100 %



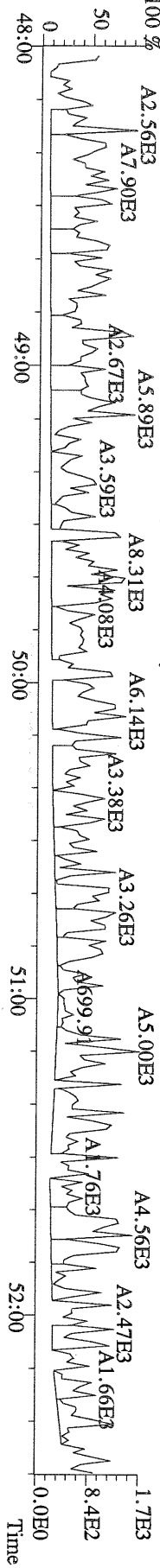
File:31AUG10M #1-348 Acq:31-AUG-2010 15:31:30 GC EI+ Voltage SIR Autospec-Ultima  
 453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory  
 100 %



File:31AUG10M #1-348 Acq:31-AUG-2010 15:31:30 GC EI+ Voltage SIR Autospec-Ultima  
 455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 15:31:30 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:PCDD  
 Sample Text:2096-001-0001-OPR File Text:Frontier Analytical Laboratory  
 100 %



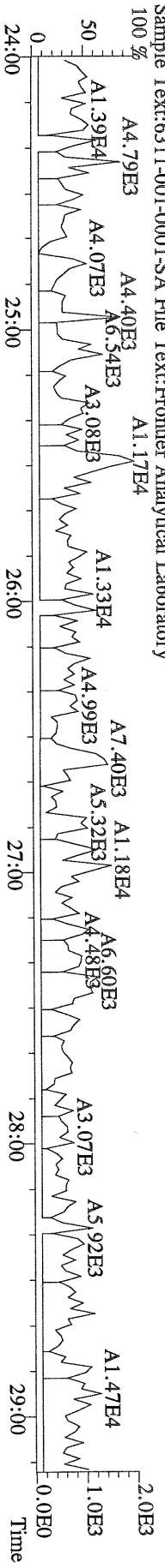
Results: 2096      GC Column: DB5      Amount: 0.9960      NATO 1989 Tox: 0.00  
 WHO 1998 Tox: 0.00      WHO 2005 Tox: 0.00

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	775	673	1.64	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	907	630	2.45	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	788	697	3.20	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	788	697	3.74	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	788	697	3.50	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	821	726	5.24	
OCDD	*	* n	NotFnd	1.43	*		2.50	653	746	9.64	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	752	1280	0.905	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	602	829	1.55	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	602	829	1.59	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	673	727	2.11	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	673	727	2.02	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	673	727	2.33	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	673	727	2.71	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	579	642	2.86	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	579	642	5.04	
OCDF	*	* n	NotFnd	0.79	*		2.50	707	653	7.78	
										Rec	
13C-2,3,7,8-TCDD	1.95e+07	0.84 y	27:20	1.02	1430					71.4	
13C-1,2,3,7,8-PeCDD	1.63e+07	1.77 y	33:09	0.84	1450					72.4	
13C-1,2,3,4,7,8-HxCDD	9.63e+06	1.27 y	38:31	1.07	1410					70.2	
13C-1,2,3,6,7,8-HxCDD	1.02e+07	1.23 y	38:42	1.01	1580					78.8	
13C-1,2,3,4,6,7,8-HpCDD	7.77e+06	0.95 y	44:08	0.86	1430					71.0	
13C-OCDD	9.61e+06	0.95 y	49:40	0.55	2760					68.8	
13C-2,3,7,8-TCDF	3.35e+07	0.86 y	26:35	0.99	1460					72.9	
13C-1,2,3,7,8-PeCDF	2.67e+07	1.78 y	31:25	0.84	1390					69.0	
13C-2,3,4,7,8-PeCDF	2.58e+07	1.73 y	32:44	0.81	1380					68.8	
13C-1,2,3,4,7,8-HxCDF	2.03e+07	0.49 y	37:08	1.85	1720					85.7	
13C-1,2,3,6,7,8-HxCDF	2.86e+07	0.48 y	37:19	2.54	1770					88.4	
13C-2,3,4,6,7,8-HxCDF	2.21e+07	0.49 y	38:16	2.01	1720					85.9	
13C-1,2,3,7,8,9-HxCDF	2.02e+07	0.49 y	39:42	2.03	1560					77.9	
13C-1,2,3,4,6,7,8-HpCDF	1.06e+07	0.45 y	42:13	1.11	1500					74.8	
13C-1,2,3,4,7,8,9-HpCDF	6.96e+06	0.46 y	45:03	0.80	1360					67.7	
13C-OCDF	2.07e+07	0.98 y	50:03	1.08	3010					74.9	
37Cl-2,3,7,8-TCDD	5.47e+06		27:21	0.69	600					74.6	
13C-1,2,3,4-TCDD	2.67e+07	0.85 y	26:44	-	59.7						
13C-1,2,3,4-TCDF	4.62e+07	0.87 y	25:29	-	64.1						
13C-1,2,3,7,8,9-HxCDD	1.28e+07	1.27 y	39:08	-	46.6						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	775	673	1.64	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	907	630	2.45	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	788	697	3.74	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	821	726	5.24	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	752	1280	0.905	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	602	829	1.59	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	602	829	1.59	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	673	727	2.71	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	579	642	5.04	0

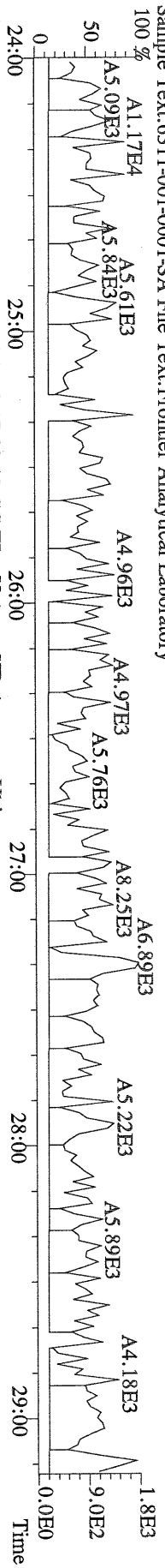
Analyst: 

Date: 9/1/10

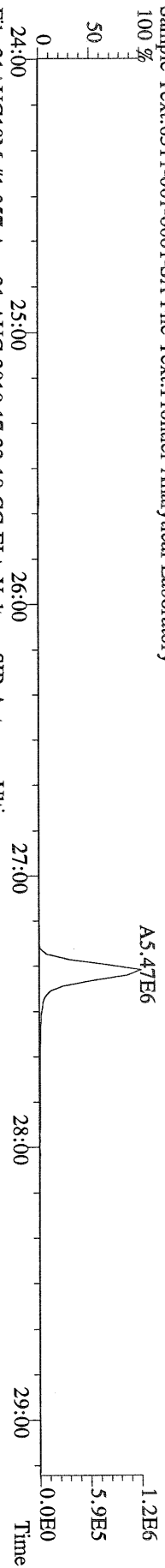
File:31AUG10M #1-357 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



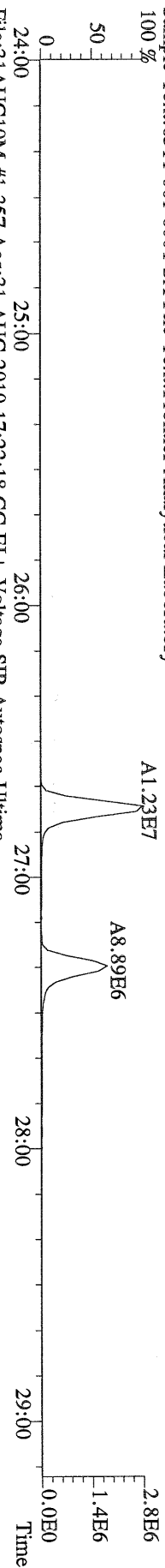
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Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



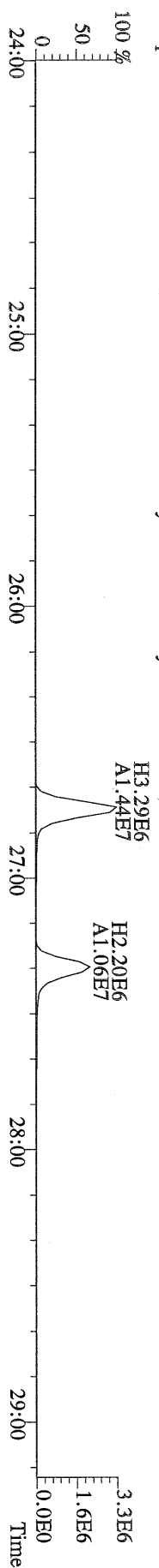
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327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



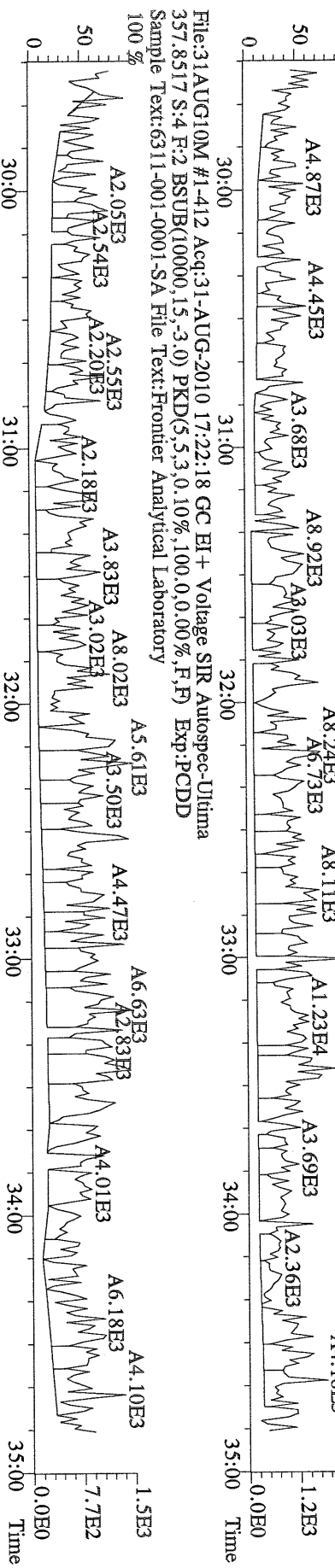
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331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
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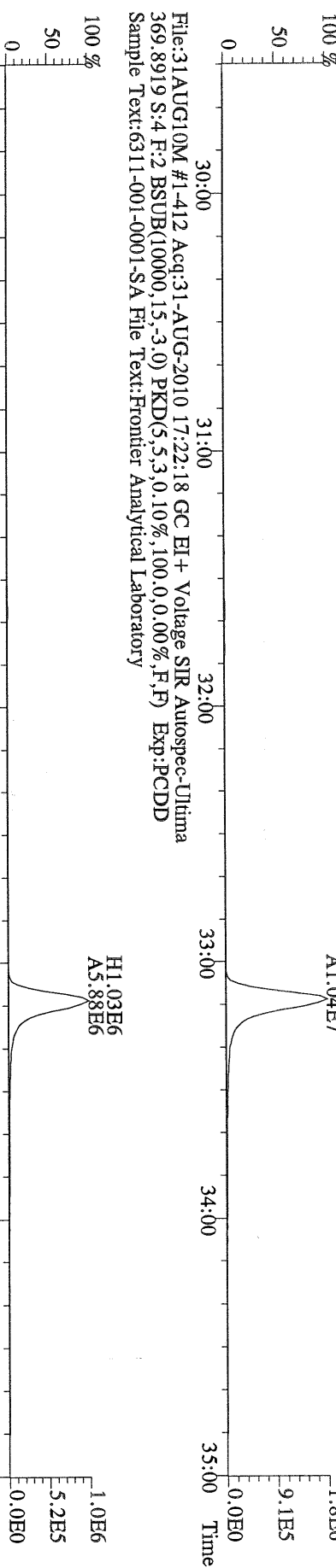
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333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



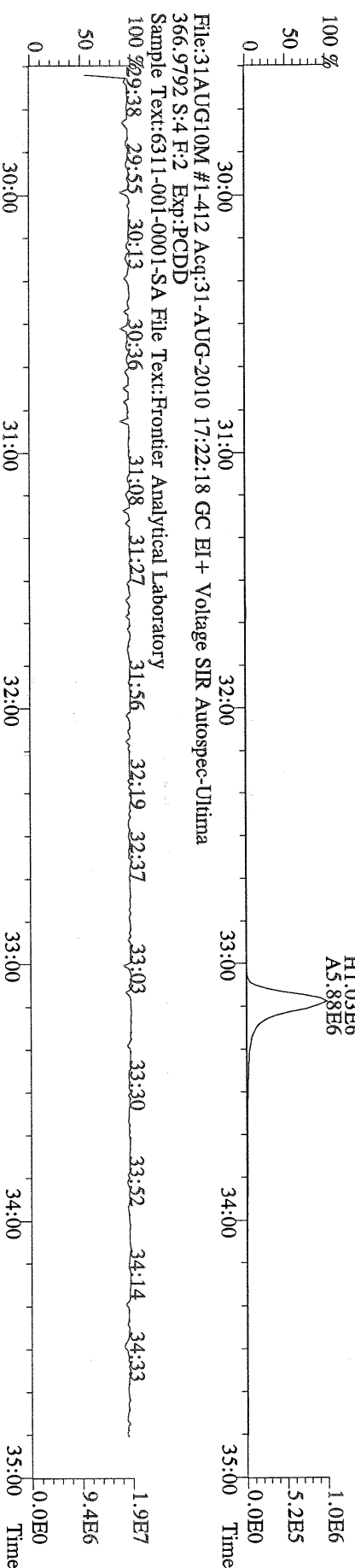
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 355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
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File:31AUG10M #1-412 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
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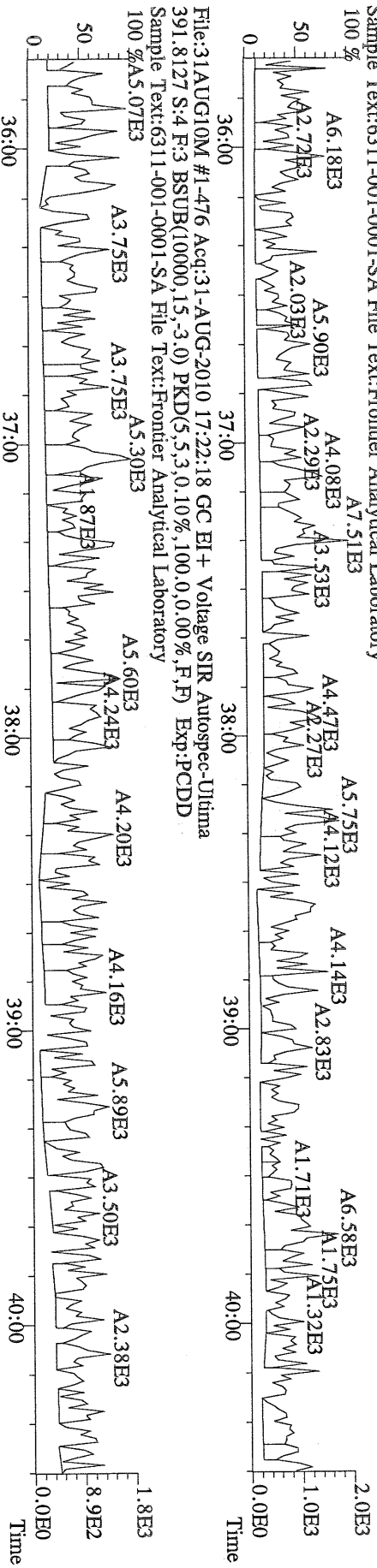
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 369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
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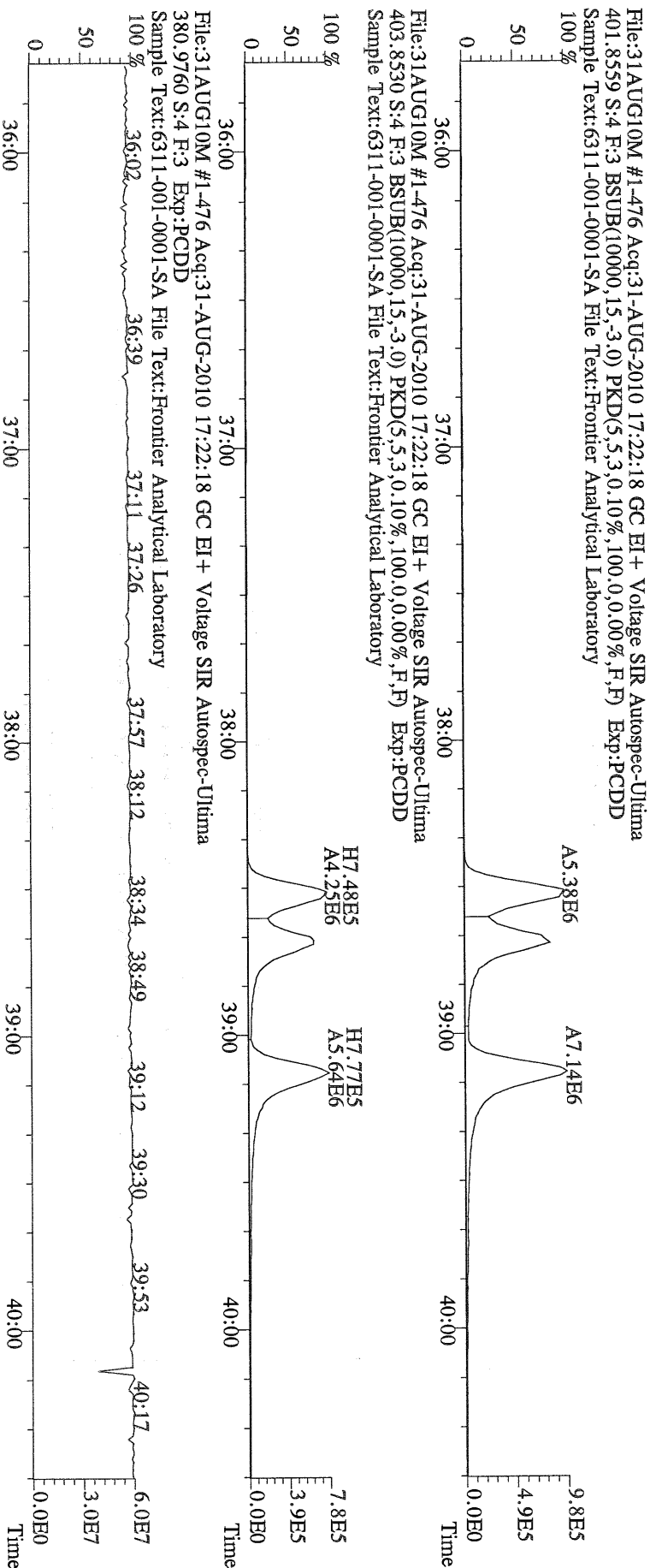
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 366.9792 S:4 F:2 Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-476 Acq:31-AUG-2010 17:22:18 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  
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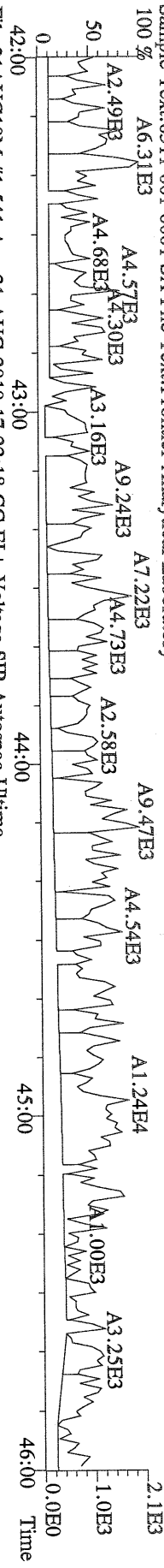


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 401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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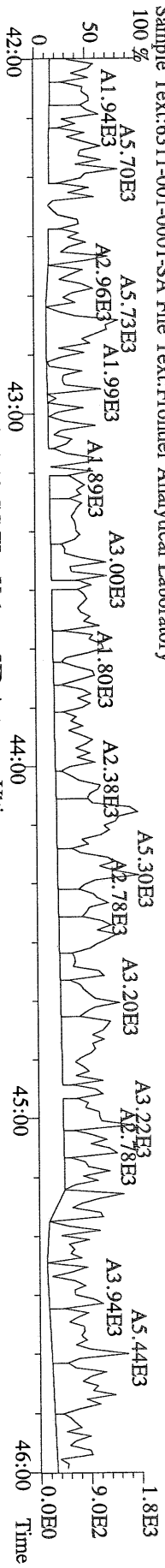


File:31AUG10M #1-476 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 380.9760 S:4 F:3 Exp:PCDD  
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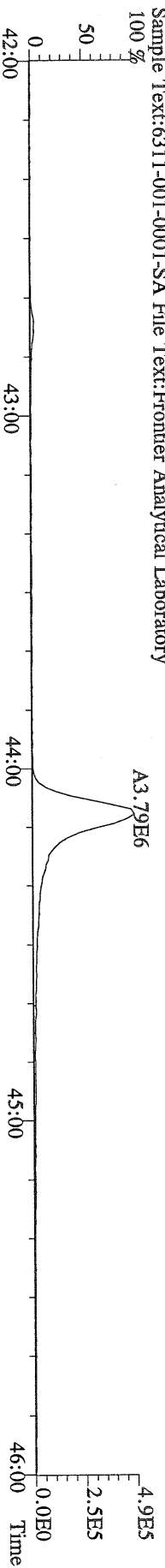
File:31AUG10M #1-541 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



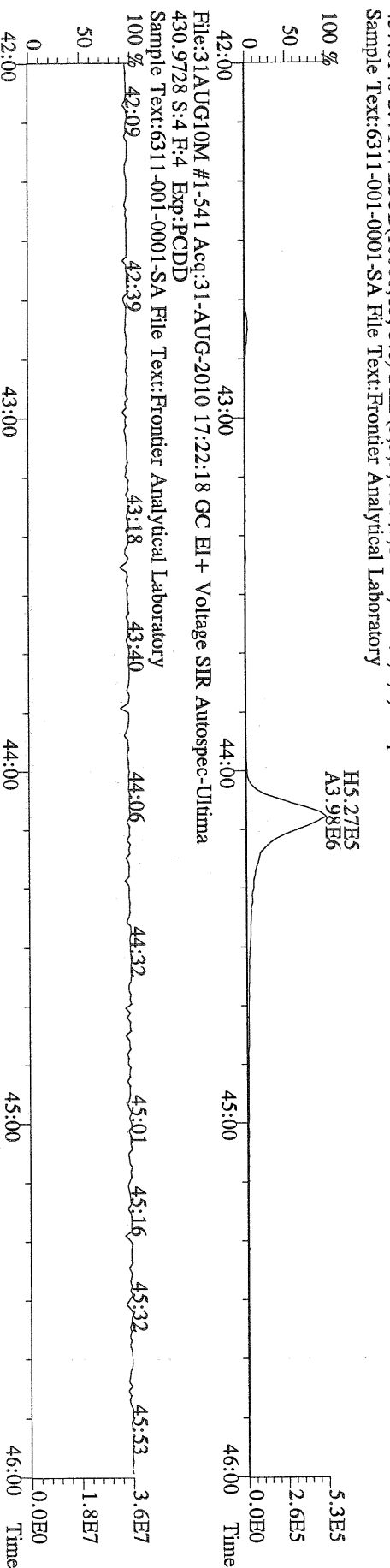
File:31AUG10M #1-541 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



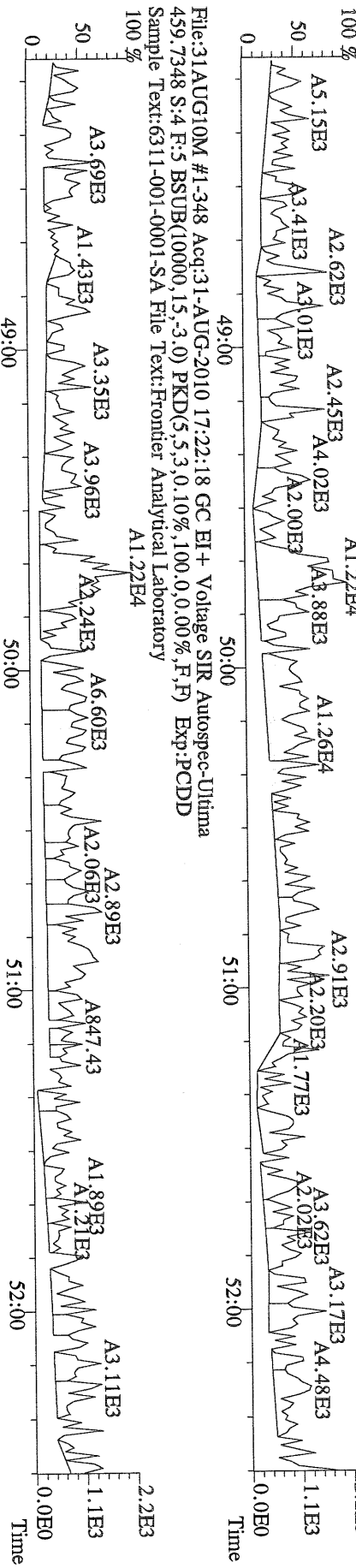
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437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



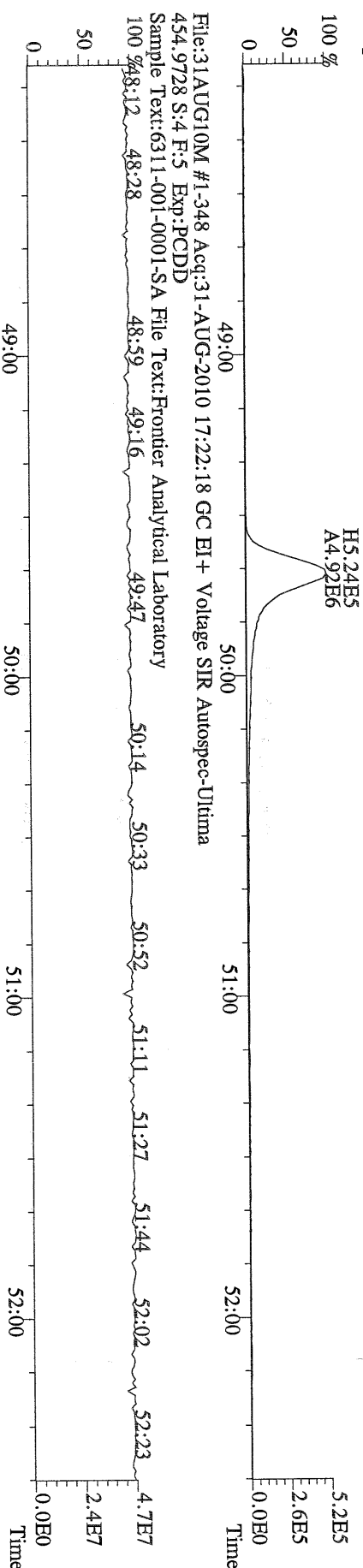
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430.9728 S:4 F:4 Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory

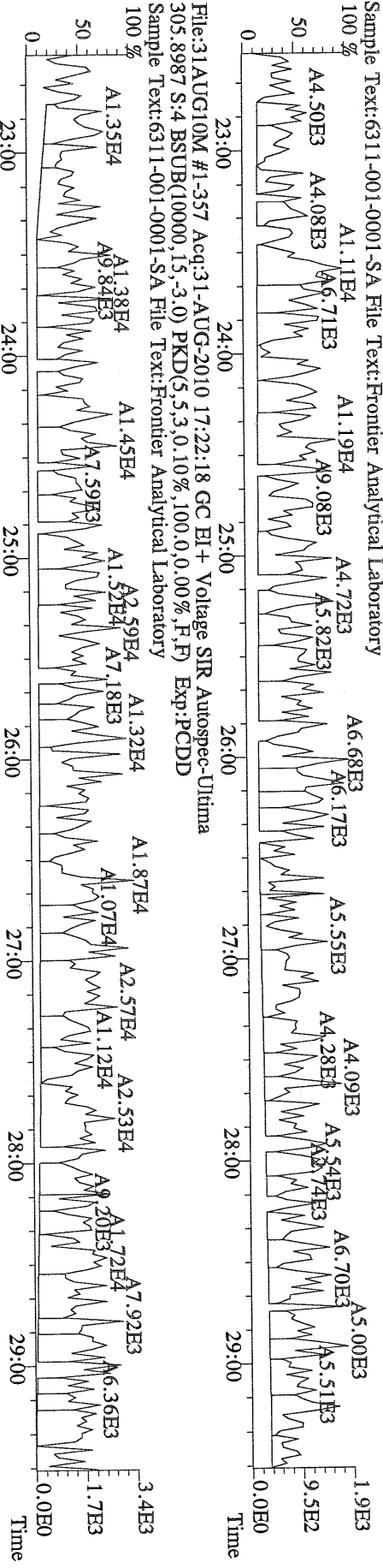


File:31AUG10M #1-348 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory

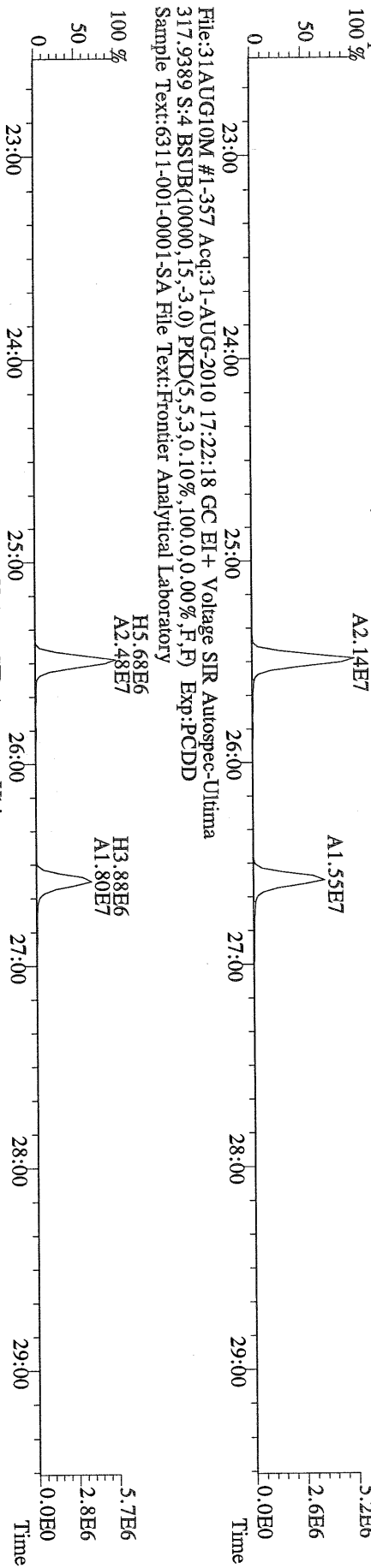


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 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory

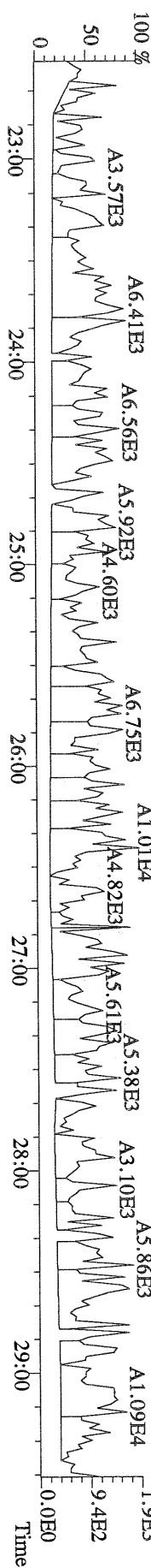
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 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



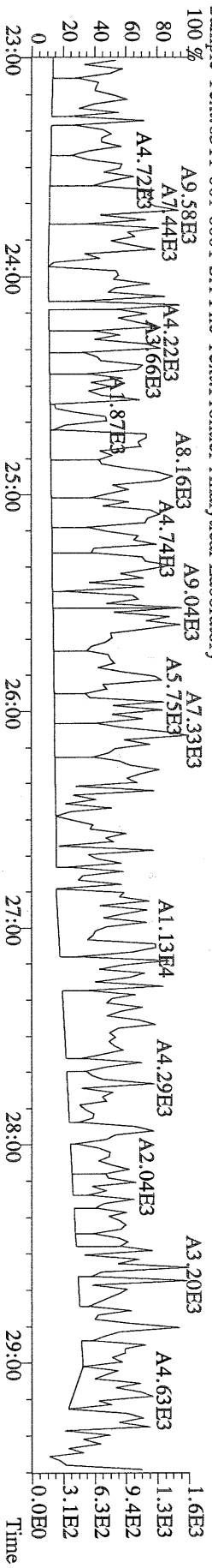
File:31AUG10M #1-357 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



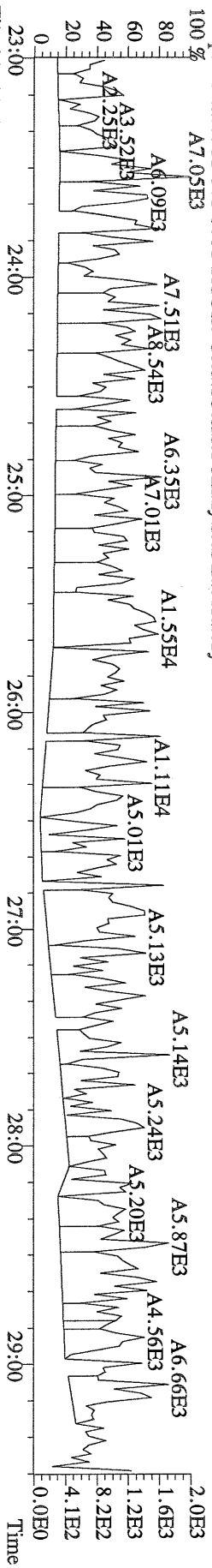
File:31AUG10M #1-357 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



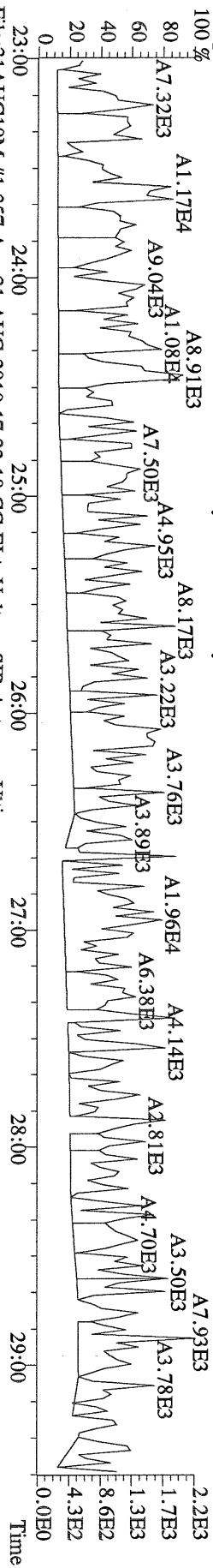
File:31AUG10M #1-357 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



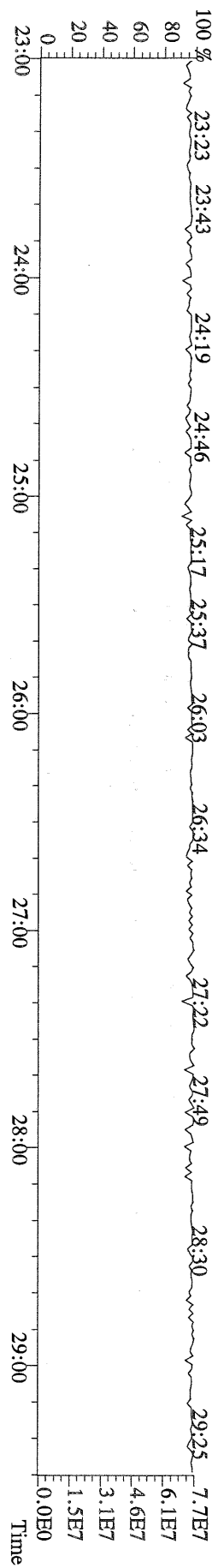
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 341.8568 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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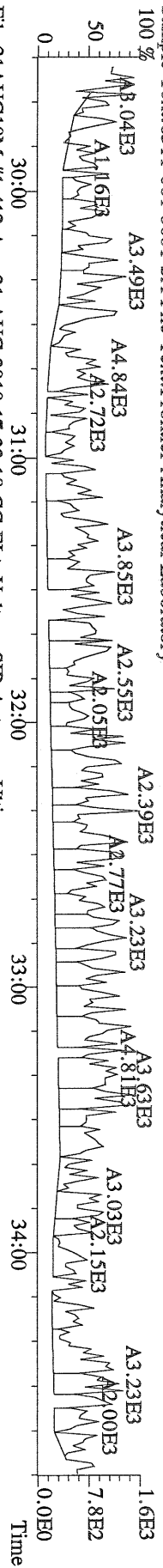
File:31AUG10M #1-357 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



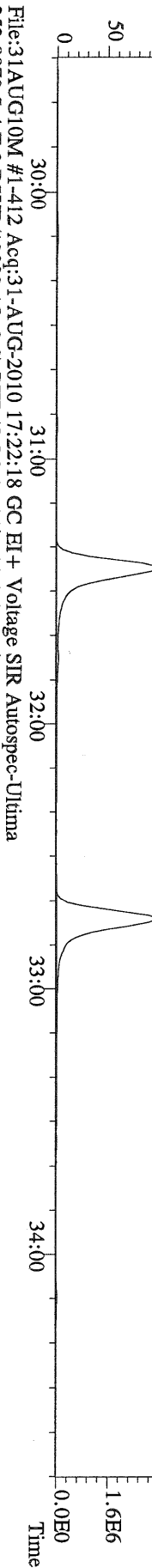
File:31AUG10M #1-357 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:4 Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



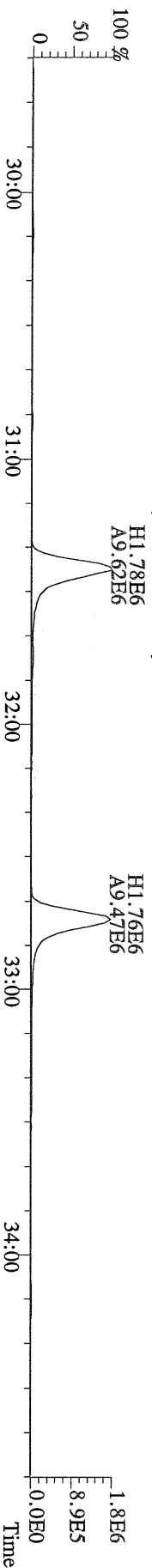
File:31AUG10M #1-412 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-001-0001-SA File Text:Frontier Analytical Laboratory



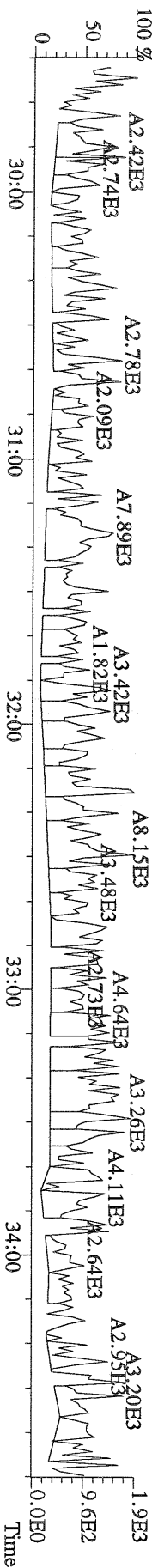
File:31AUG10M #1-412 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-001-0001-SA File Text:Frontier Analytical Laboratory



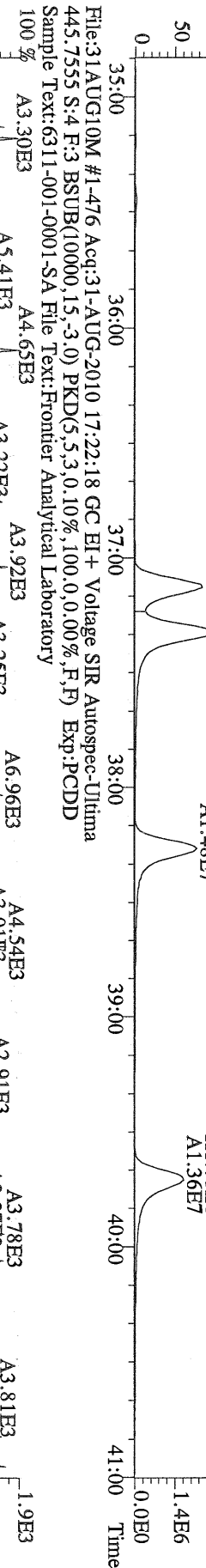
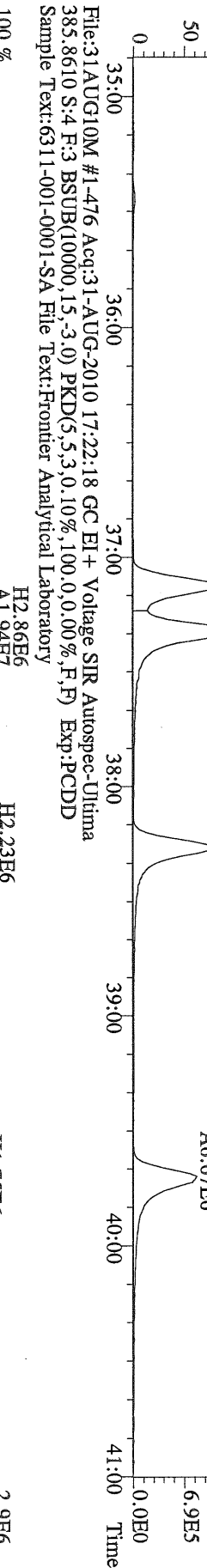
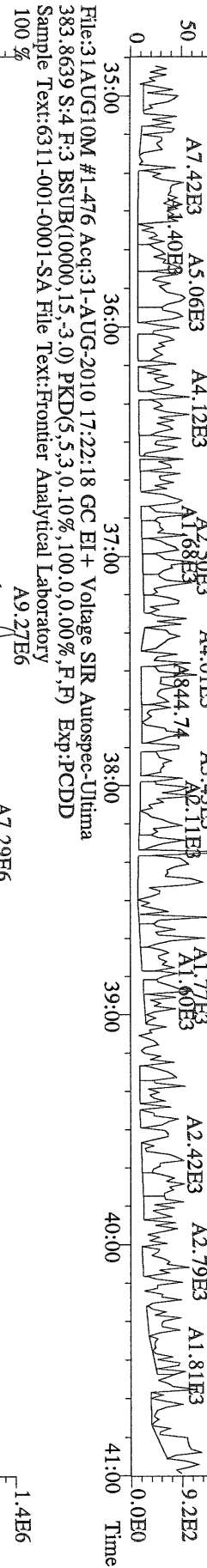
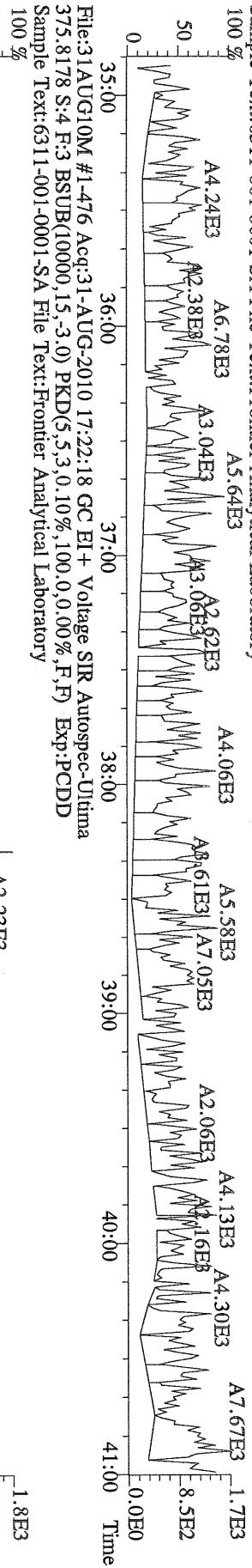
File:31AUG10M #1-412 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 353.8970 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-001-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-412 Acq:31-AUG-2010 17:22:18 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:63111-001-0001-SA File Text:Frontier Analytical Laboratory

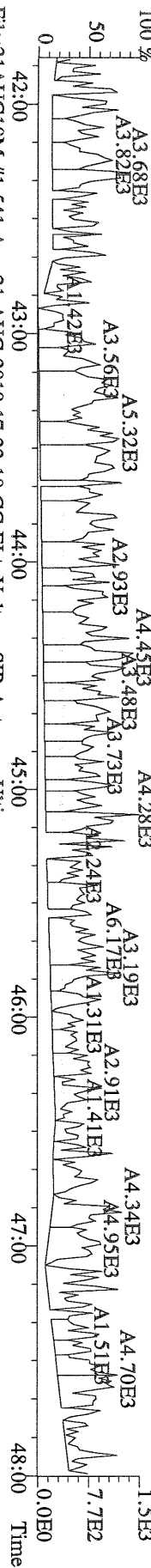


File:31AUG10M #1-476 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory

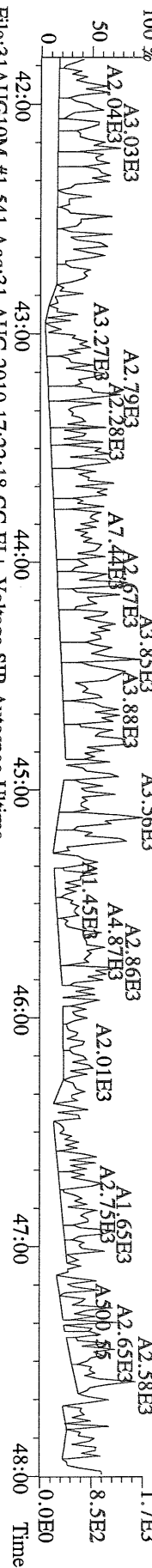


File:31AUG10M #1-476 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory

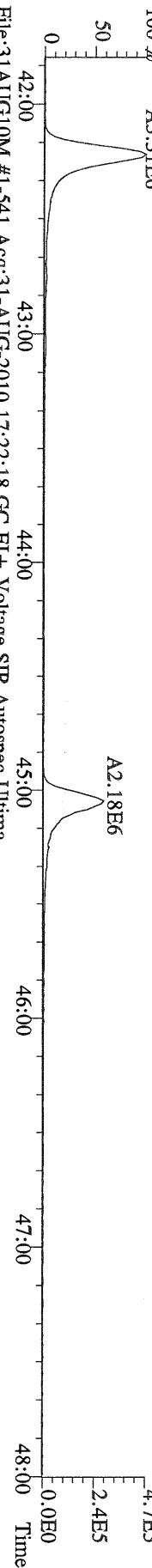
File:31AUG10M #1-541 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



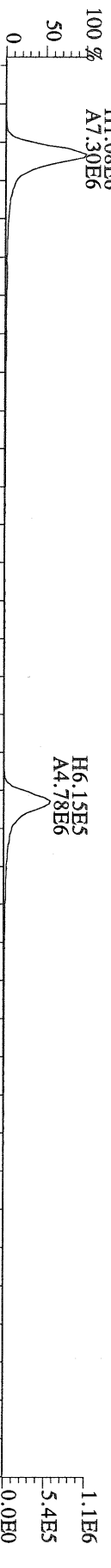
File:31AUG10M #1-541 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



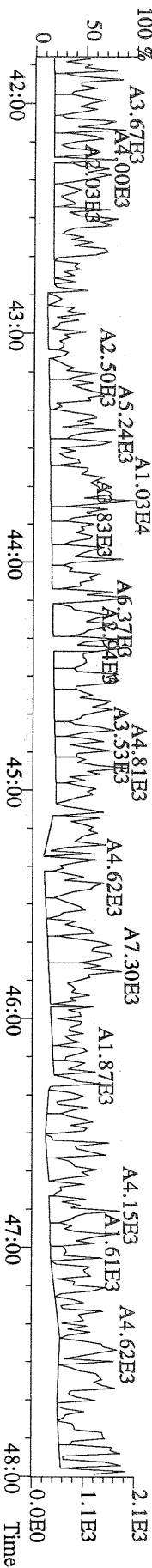
File:31AUG10M #1-541 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-541 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 419.8220 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:6311-001-0001-SA File Text:Frontier Analytical Laboratory

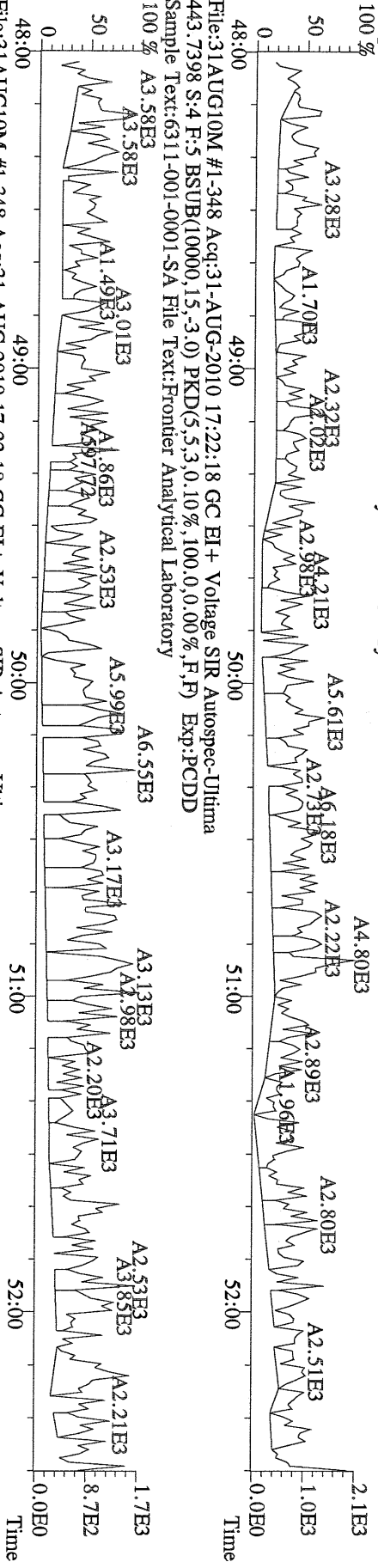


File:31AUG10M #1-541 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
 479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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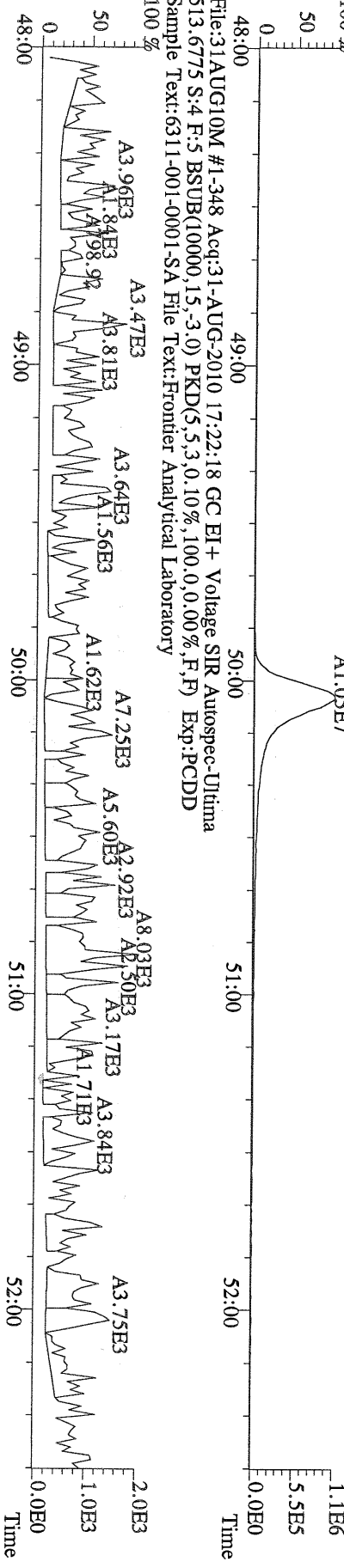




File:31AUG10M #1-348 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory




File:31AUG10M #1-348 Acq:31-AUG-2010 17:22:18 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-001-0001-SA File Text:Frontier Analytical Laboratory



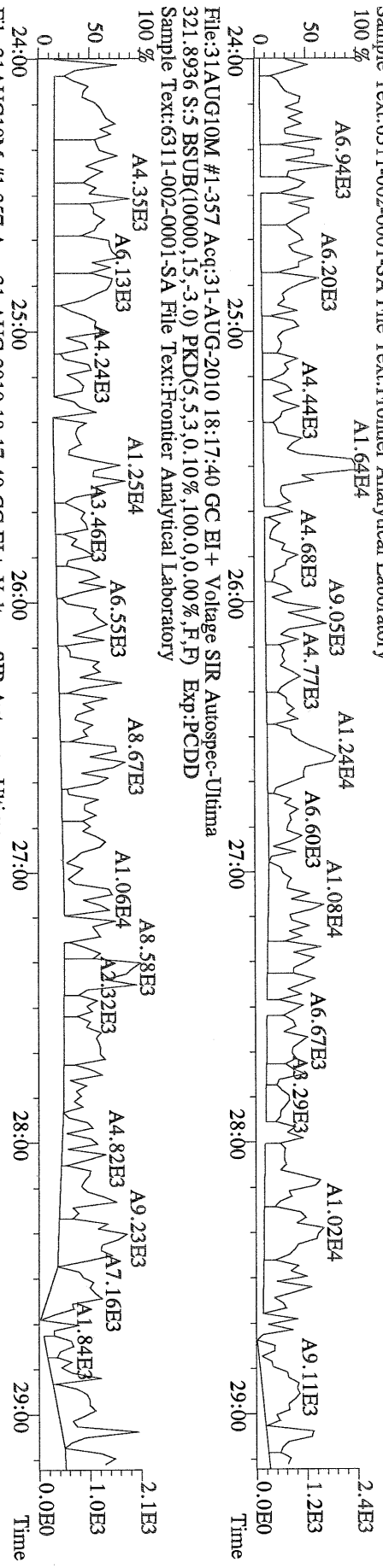
Results: 6311      GC Column: DB5      Amount: 0.9610      NATO 1989 Tox: 0.00  
 WHO 1998 Tox: 0.00      WHO 2005 Tox: 0.00

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	874	803	1.89	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	1000	958	3.30	0
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1040	996	4.63	0
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	1040	996	4.63	0
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	1040	996	4.25	0
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	1130	954	6.14	0
OCDD	*	* n	NotFnd	1.43	*		2.50	931	780	9.78	0
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	841	1350	1.06	0
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	772	996	1.93	0
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	772	996	2.07	0
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	970	892	2.57	0
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	970	892	2.49	0
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	970	892	2.88	0
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	970	892	3.09	0
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	801	809	3.30	0
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	801	809	5.91	0
OCDF	*	* n	NotFnd	0.79	*		2.50	886	866	8.63	0
13C-2,3,7,8-TCDD	1.95e+07	0.82 y	27:20	1.02	1680					80.6	
13C-1,2,3,7,8-PeCDD	1.69e+07	1.77 y	33:09	0.84	1770					85.1	
13C-1,2,3,4,7,8-HxCDD	1.14e+07	1.26 y	38:32	1.07	1640					78.7	
13C-1,2,3,6,7,8-HxCDD	1.21e+07	1.25 y	38:41	1.01	1850					88.7	
13C-1,2,3,4,6,7,8-HpCDD	9.68e+06	0.94 y	44:08	0.86	1750					84.1	
13C-OCDD	1.33e+07	1.00 y	49:41	0.55	3780					90.9	
13C-2,3,7,8-TCDF	3.42e+07	0.88 y	26:36	0.99	1720					82.7	
13C-1,2,3,7,8-PeCDF	2.73e+07	1.76 y	31:25	0.84	1630					78.3	
13C-2,3,4,7,8-PeCDF	2.63e+07	1.75 y	32:44	0.81	1620					77.8	
13C-1,2,3,4,7,8-HxCDF	2.31e+07	0.47 y	37:08	1.85	1930					92.9	
13C-1,2,3,6,7,8-HxCDF	3.28e+07	0.48 y	37:20	2.54	2000					96.3	
13C-2,3,4,6,7,8-HxCDF	2.47e+07	0.47 y	38:16	2.01	1900					91.4	
13C-1,2,3,7,8,9-HxCDF	2.40e+07	0.49 y	39:42	2.03	1830					87.8	
13C-1,2,3,4,6,7,8-HpCDF	1.28e+07	0.45 y	42:14	1.11	1790					86.2	
13C-1,2,3,4,7,8,9-HpCDF	8.76e+06	0.43 y	45:03	0.80	1690					81.0	
13C-OCDF	2.61e+07	1.01 y	50:04	1.08	3740					89.9	
37Cl-2,3,7,8-TCDD	5.54e+06		27:21	0.69	713					85.6	
13C-1,2,3,4-TCDD	2.36e+07	0.83 y	26:45	-	54.6						
13C-1,2,3,4-TCDF	4.16e+07	0.88 y	25:30	-	59.9						
13C-1,2,3,7,8,9-HxCDD	1.34e+07	1.22 y	39:08	-	50.7						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	874	803	1.89	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	1000	958	3.30	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	1040	996	4.63	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	1130	954	6.14	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	841	1350	1.06	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	772	996	2.07	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	772	996	2.07	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	970	862	3.09	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	801	809	5.91	0

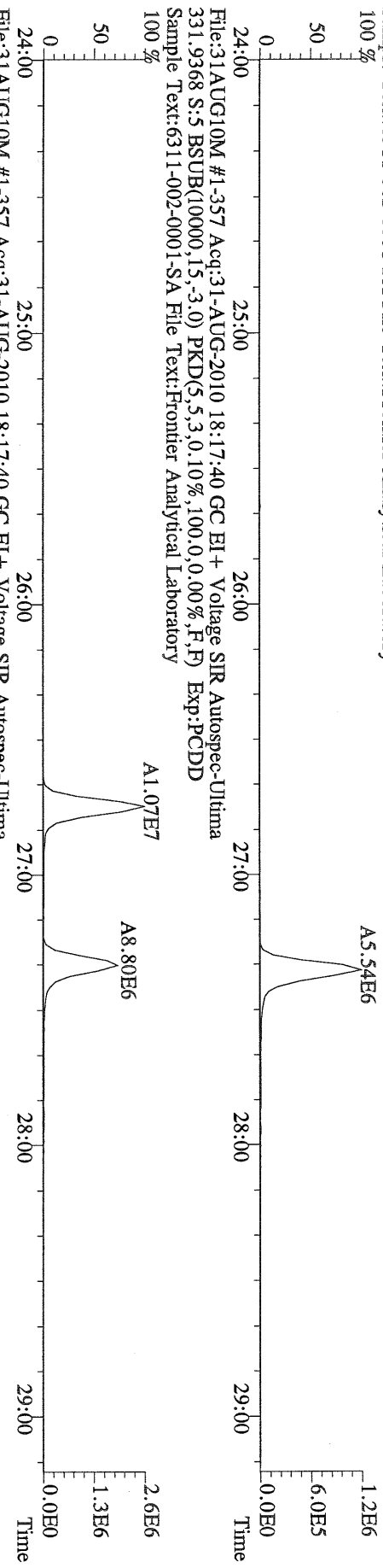
Analyst: 

Date: 9/1/10

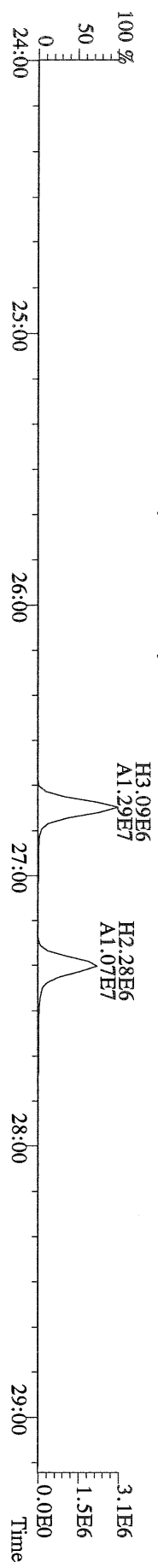
File:31AUG10M #1-357 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Ultima  
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



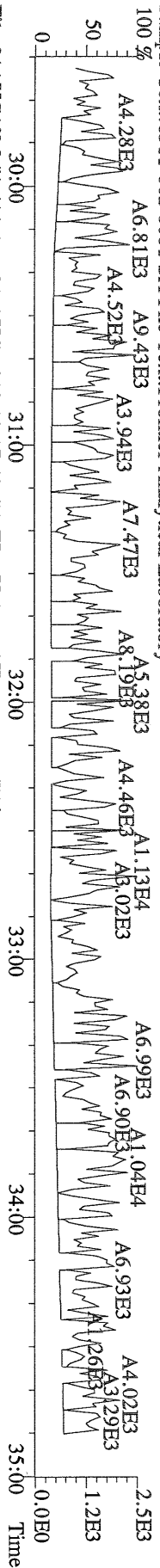
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327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



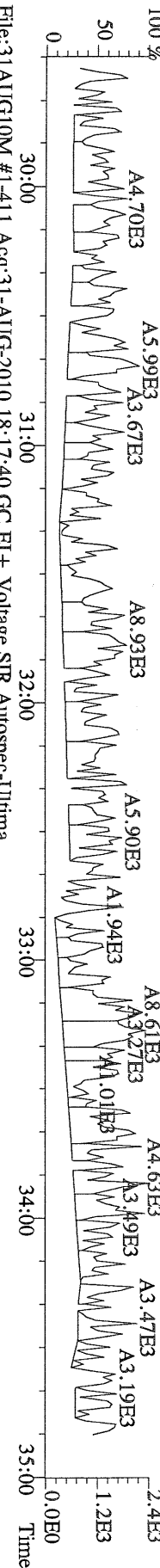
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333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



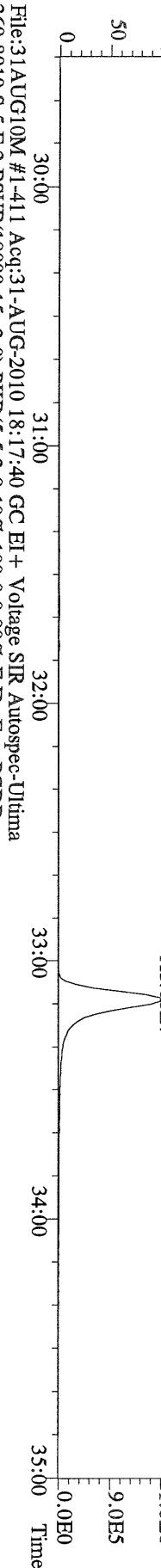
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355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-411 Acq:31-AUG-2010 18:17:40 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  
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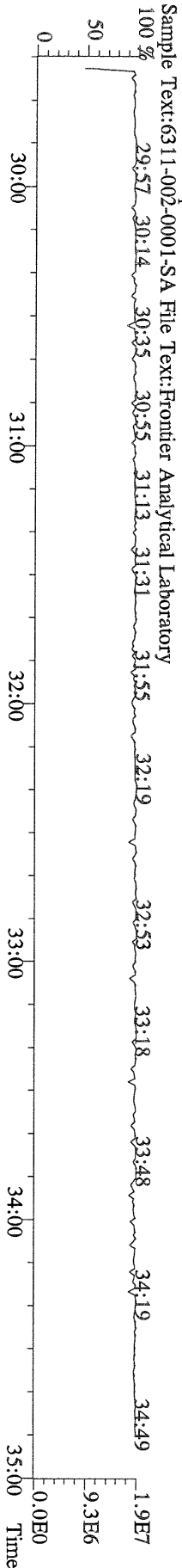
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367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



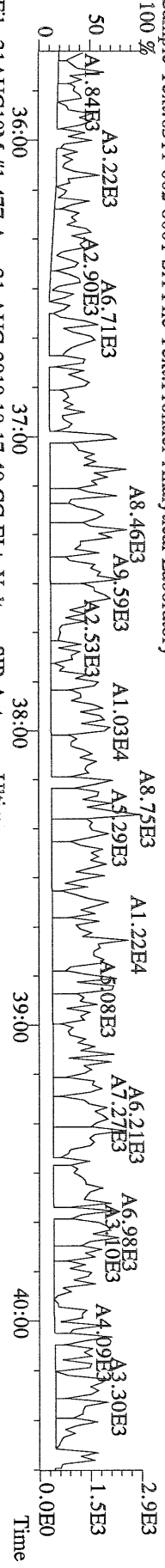
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369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
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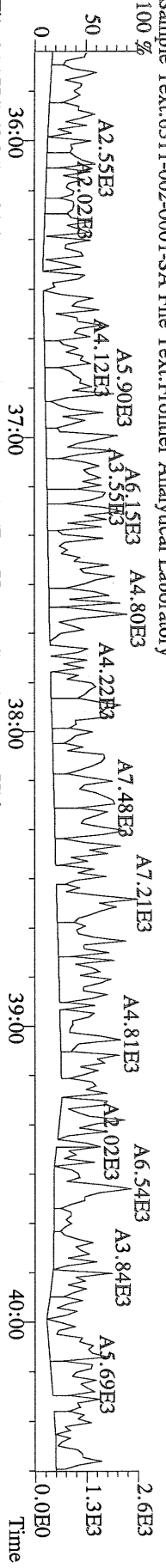
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366.9792 S:5 F:2 Exp:PCDD  
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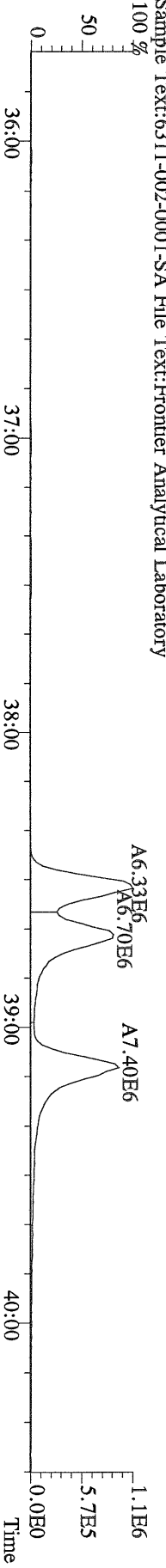
File:31AUG10M #1-477 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



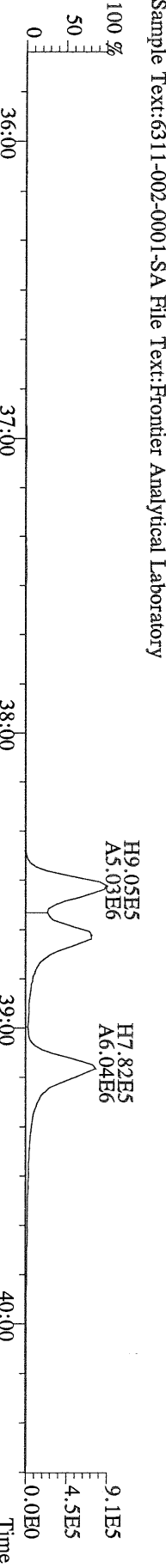
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 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



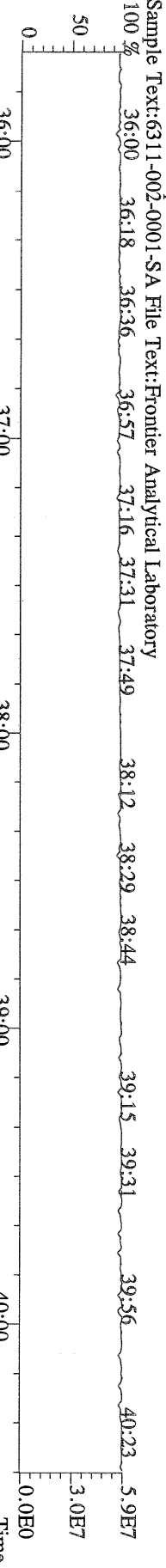
File:31AUG10M #1-477 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



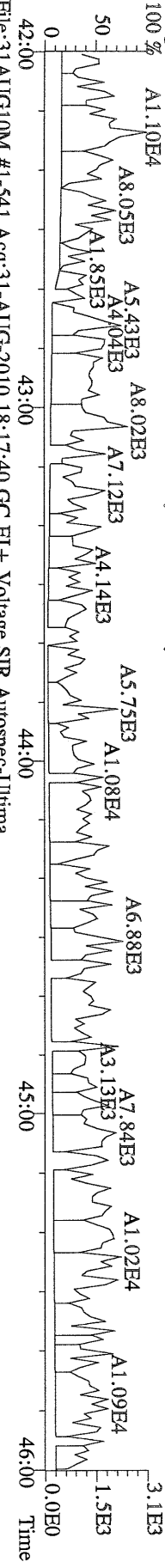
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 403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



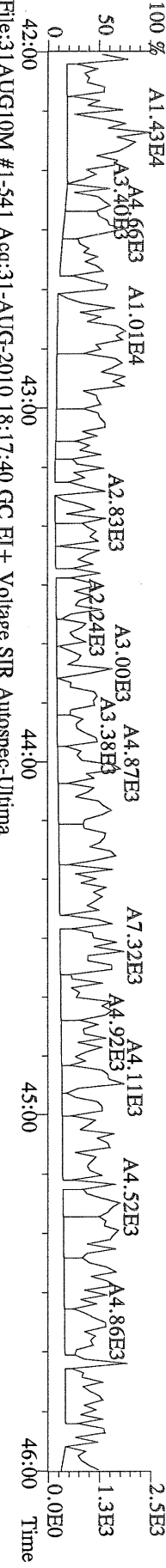
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 380.9760 S:5 F:3 Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



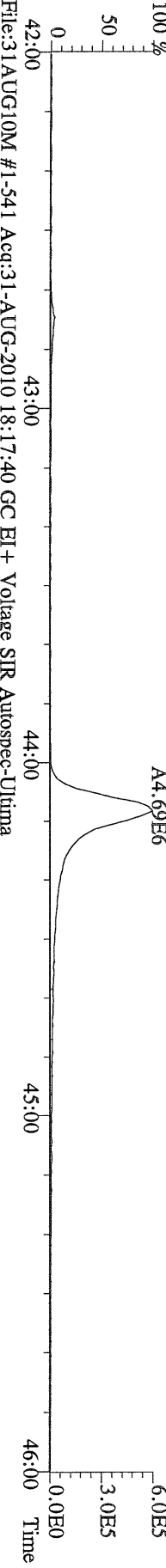
File:31AUG10M #1-541 Acq:31-AUG-2010 18:17:40 GC EI + Voltage SIR Autospec-Ultima  
 423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory  
 100 % A1.10E4



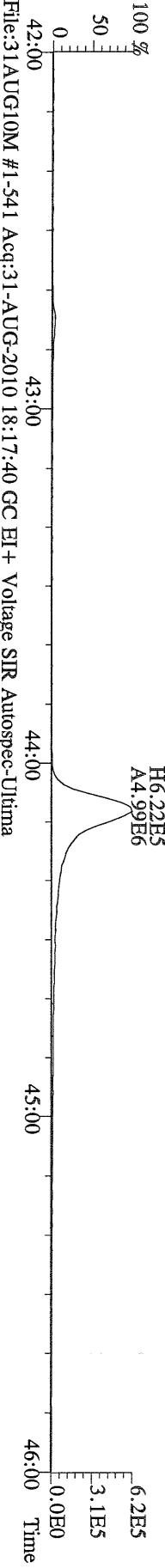
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 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory  
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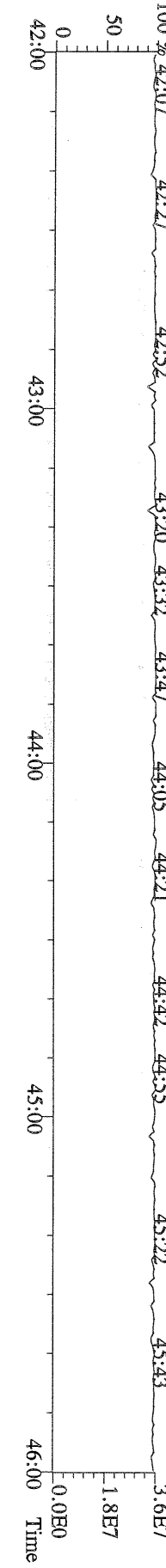
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 435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory  
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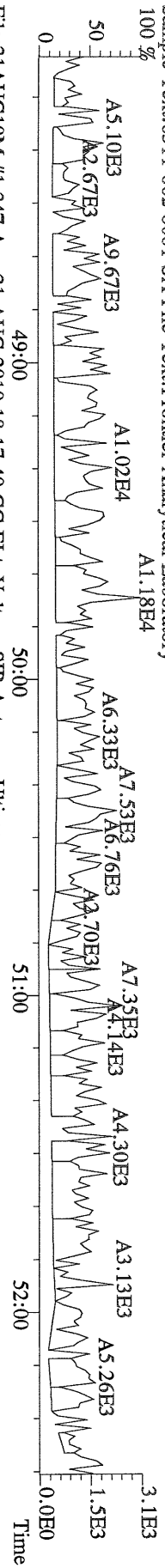
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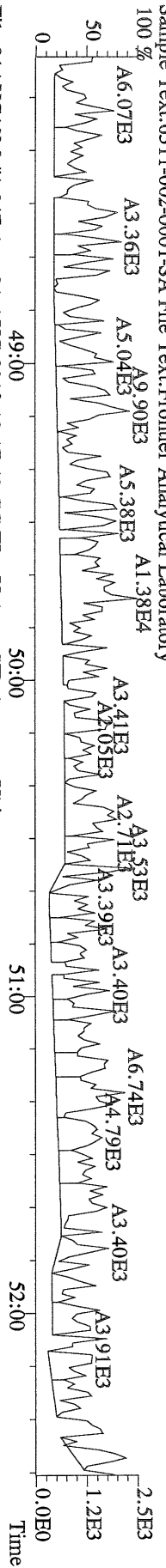
File:31AUG10M #1-541 Acq:31-AUG-2010 18:17:40 GC EI + Voltage SIR Autospec-Ultima  
 430.9728 S:5 F:4 Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



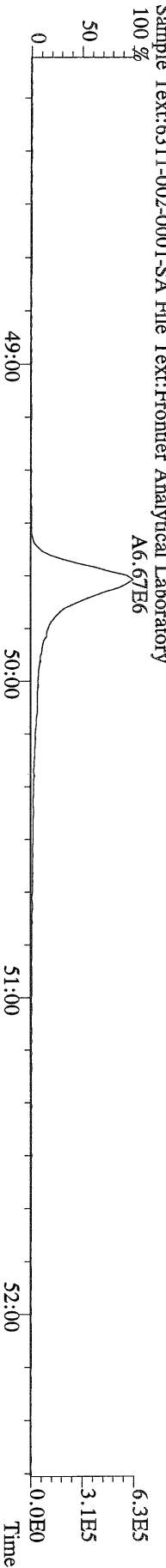
File:31AUG10M #1-347 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Ultima  
 457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



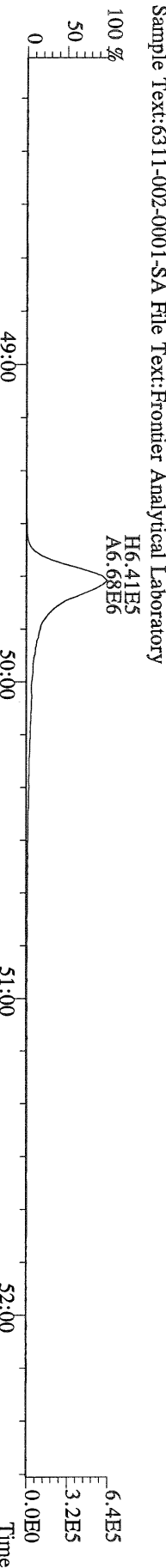
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 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



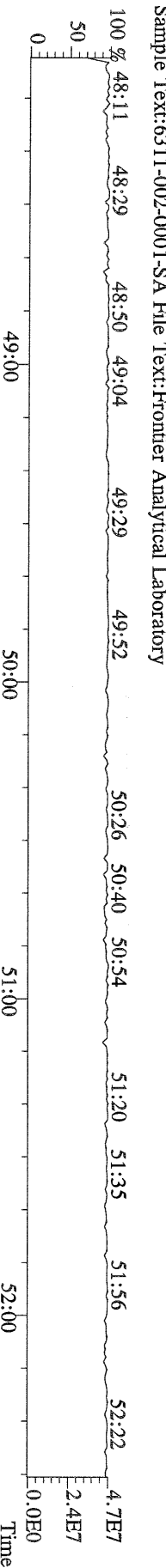
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 469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



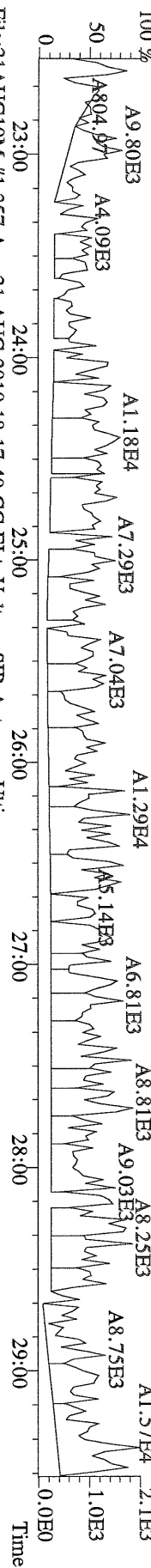
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 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



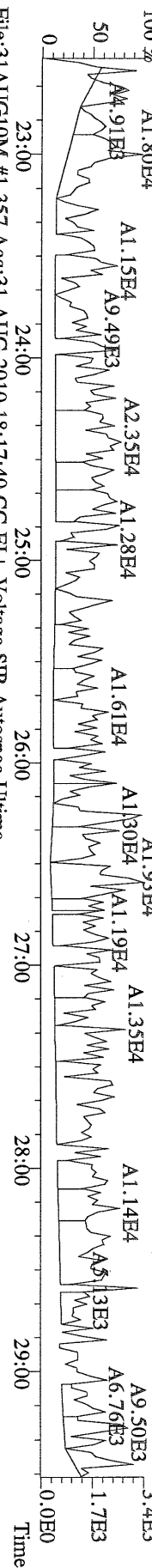
File:31AUG10M #1-347 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Ultima  
 454.9728 S:5 F:5 Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



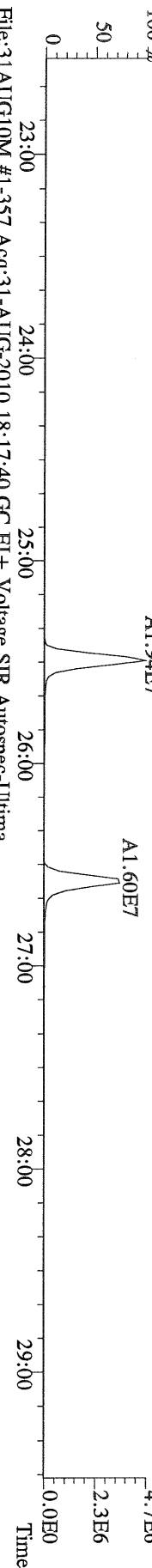
File:31AUG10M #1-357 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Ultima  
 303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



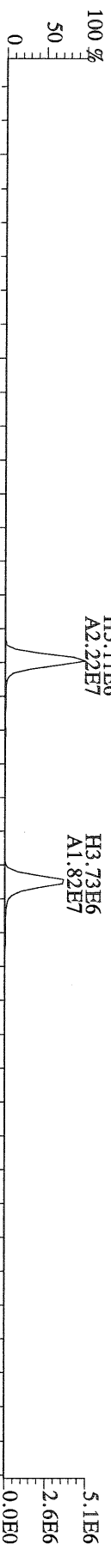
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 305.9987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



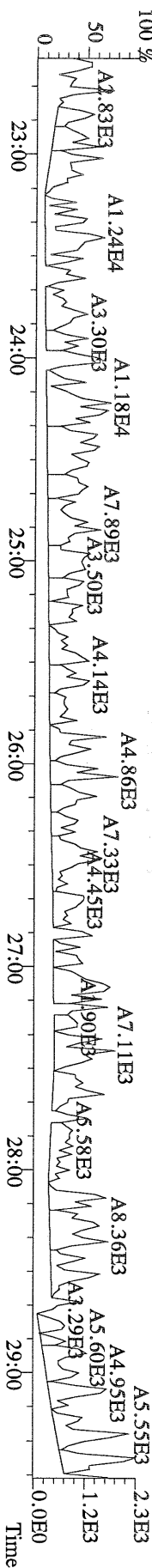
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 315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-357 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Ultima  
 317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory

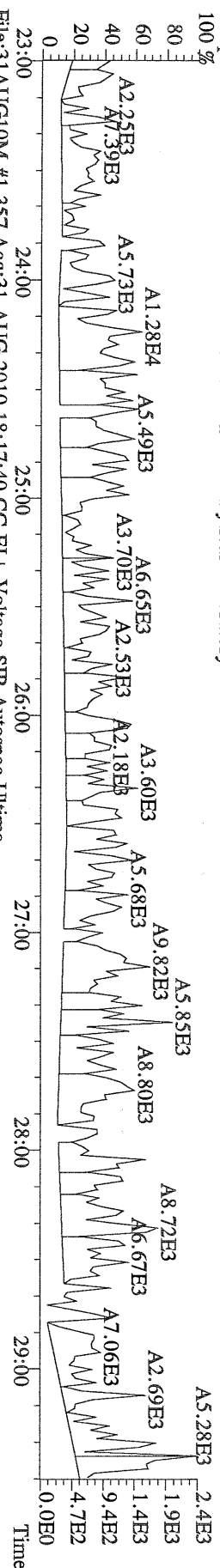


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 375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory

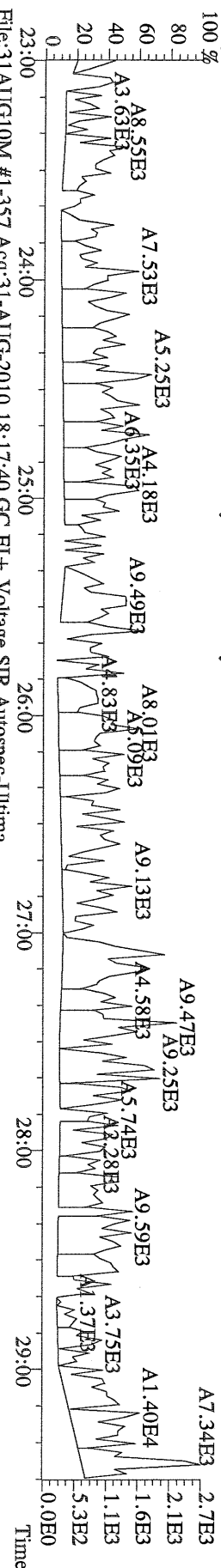




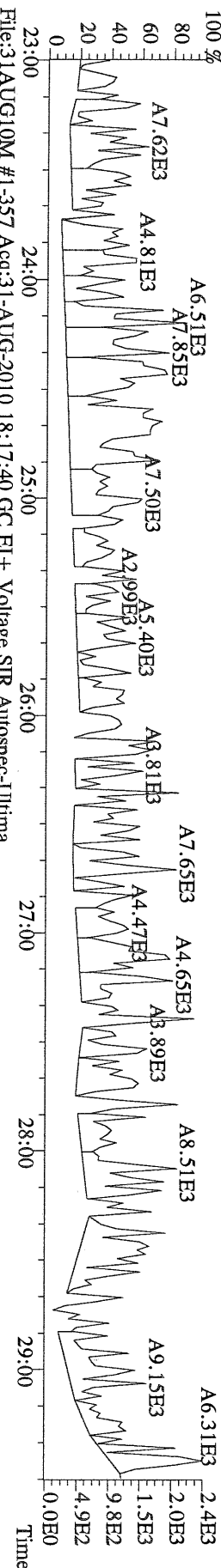
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 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



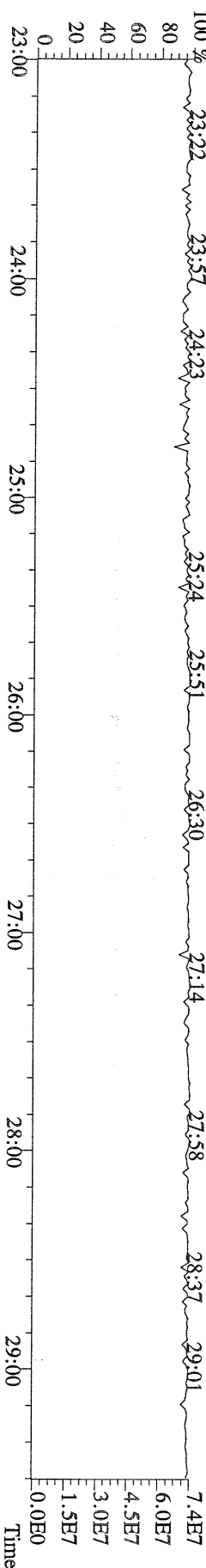
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 341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



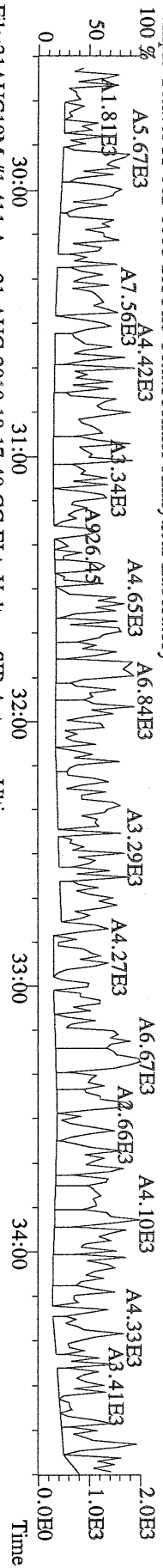
File:31AUG10M #1-357 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



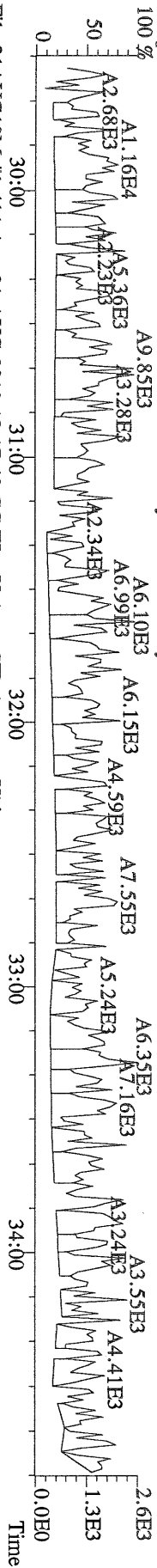
File:31AUG10M #1-357 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Ultima  
 330.9792 S:5 Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



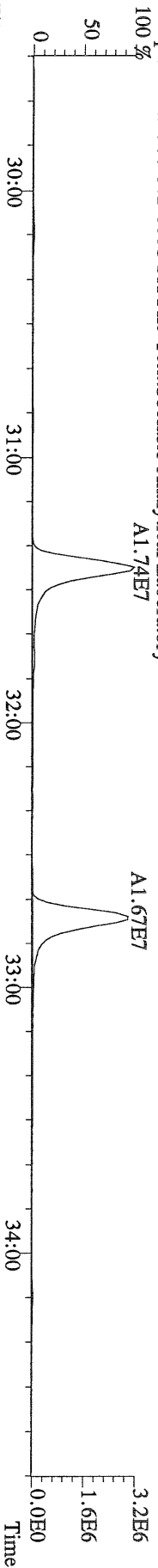
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339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



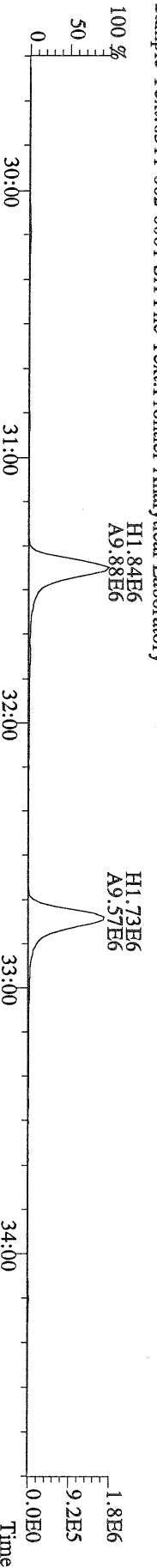
File:31AUG10M #1-411 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Ultima  
341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



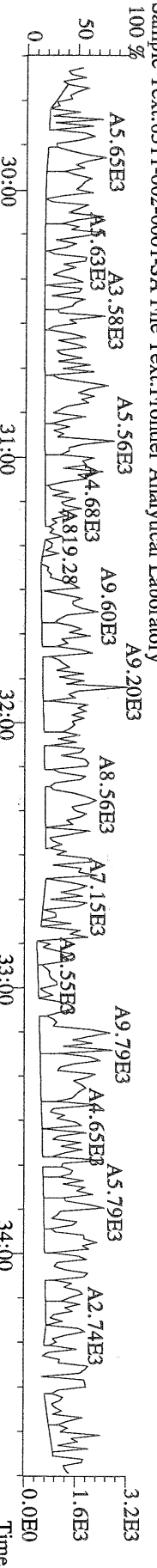
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351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



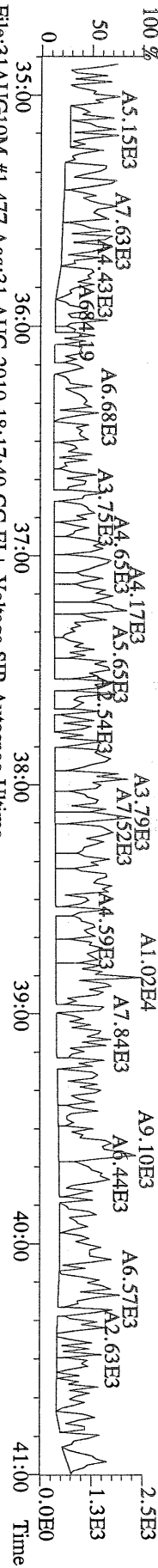
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353.8970 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



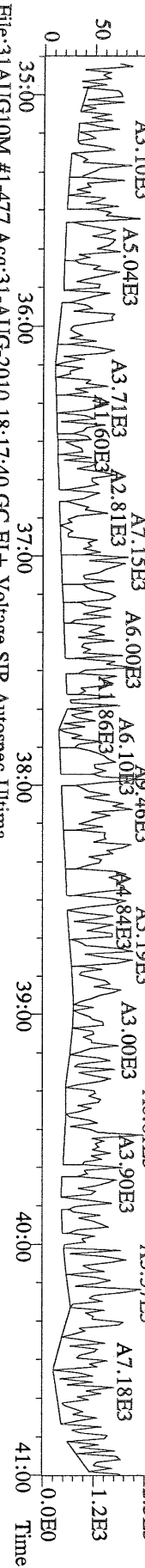
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409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



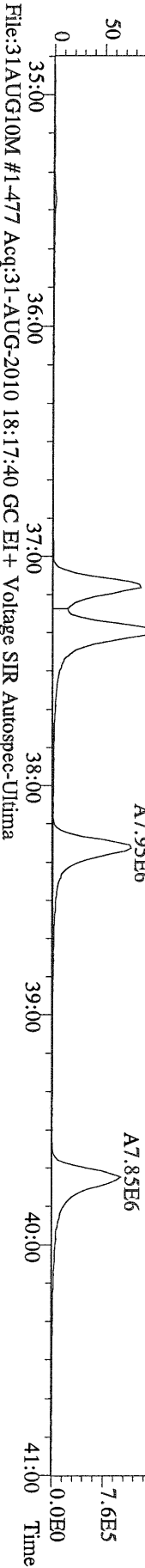
File:31AUG10M #1-477 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Utima  
 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



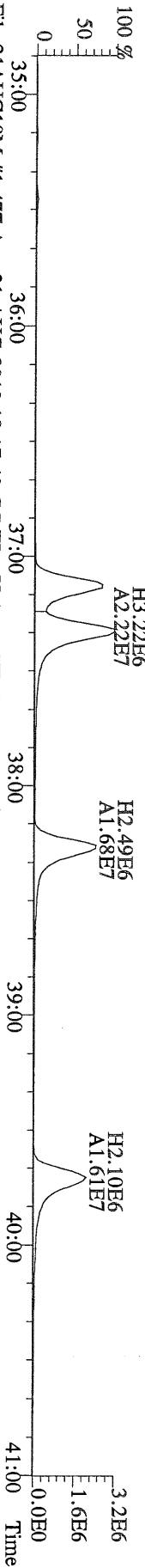
File:31AUG10M #1-477 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Utima  
 375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



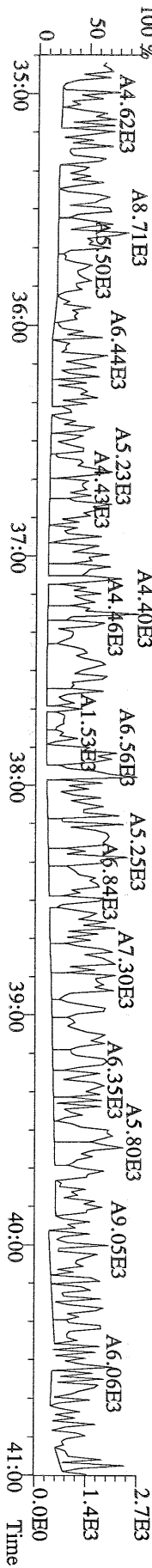
File:31AUG10M #1-477 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Utima  
 383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



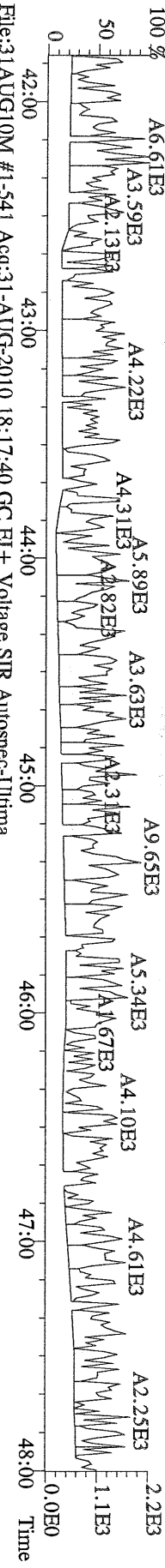
File:31AUG10M #1-477 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Utima  
 385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



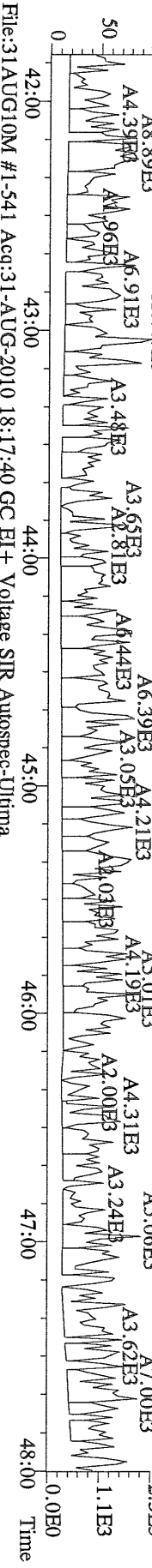
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 445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



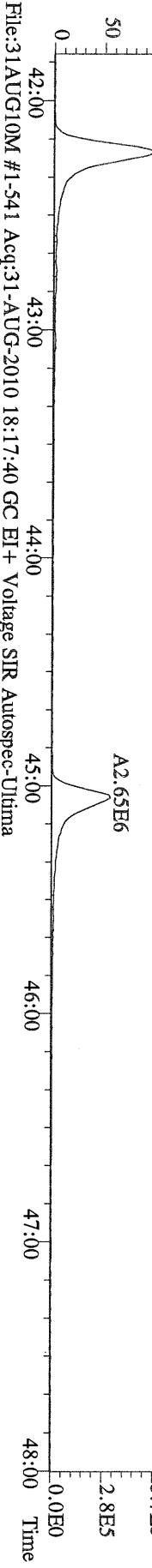
File:31AUG10M #1-541 Acq:31-AUG-2010 18:17:40 GC EI + Voltage SIR Autospec-Utima  
407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



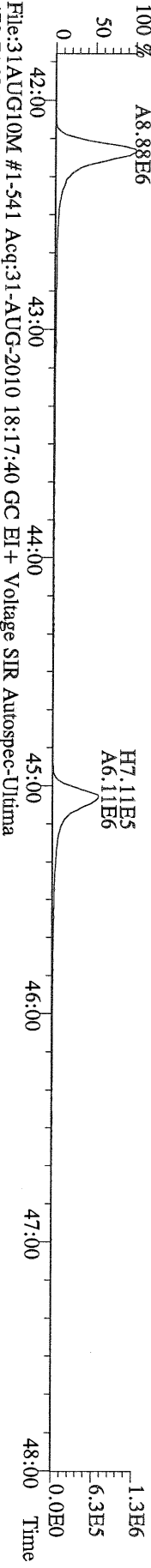
File:31AUG10M #1-541 Acq:31-AUG-2010 18:17:40 GC EI + Voltage SIR Autospec-Utima  
409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



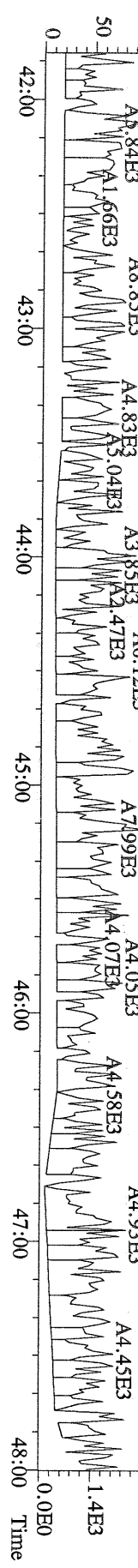
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417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



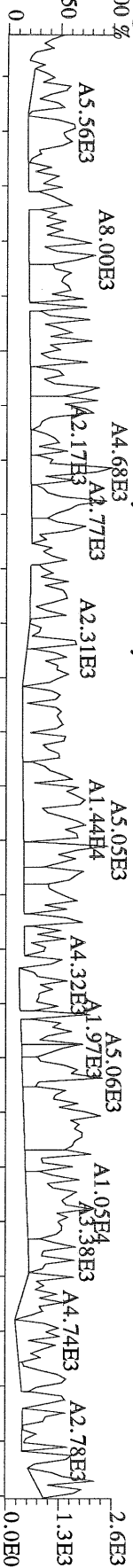
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419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



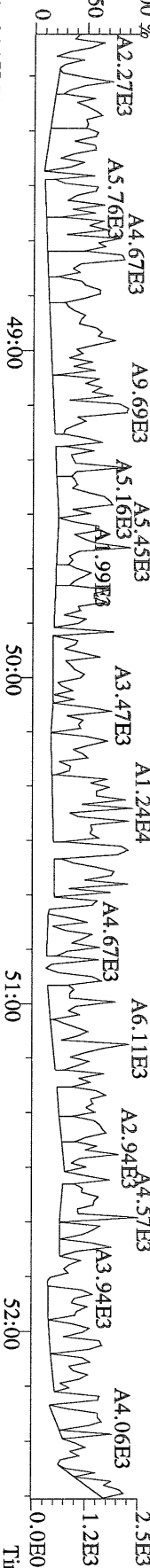
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479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Frontier Analytical Laboratory



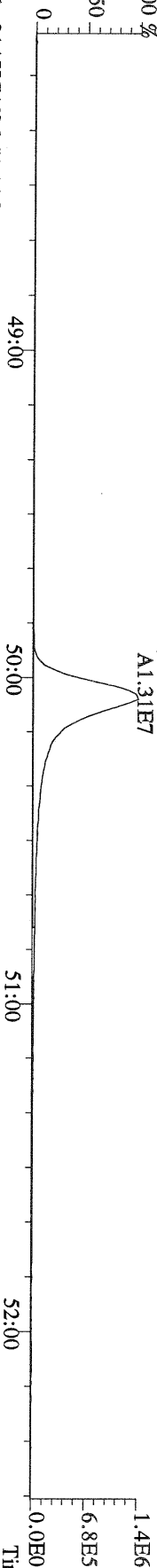
File:31AUG10M #1-347 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Utima  
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Fronier Analytical Laboratory



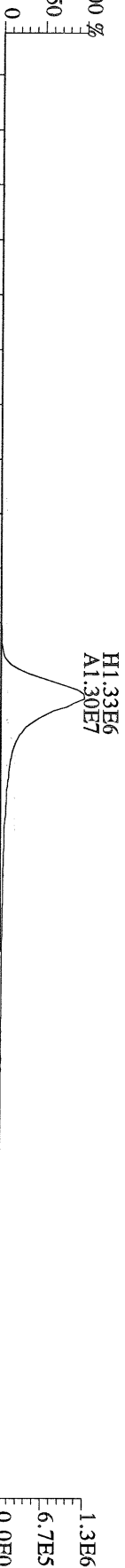
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443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Fronier Analytical Laboratory



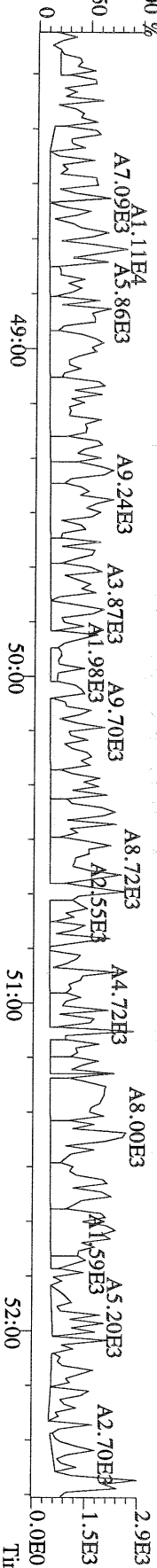
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453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-002-0001-SA File Text:Fronier Analytical Laboratory



File:31AUG10M #1-347 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Utima  
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:6311-002-0001-SA File Text:Fronier Analytical Laboratory



File:31AUG10M #1-347 Acq:31-AUG-2010 18:17:40 GC EI+ Voltage SIR Autospec-Utima  
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:6311-002-0001-SA File Text:Fronier Analytical Laboratory

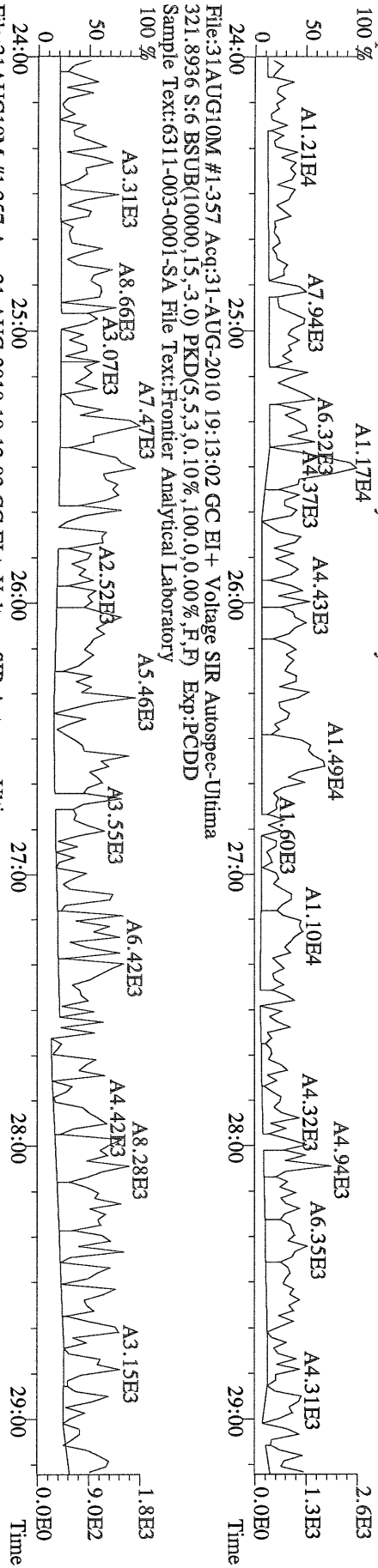


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	905	632	1.44	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	726	572	1.79	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	801	747	2.24	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	801	747	2.72	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	801	747	2.50	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	685	764	3.69	
OCDD	*	* n	NotFnd	1.43	*		2.50	877	863	8.62	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	862	1180	0.797	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	585	796	1.22	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	585	796	1.33	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	648	614	1.44	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	648	614	1.39	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	648	614	1.58	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	648	614	1.78	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	662	673	2.28	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	662	673	4.03	
OCDF	*	* n	NotFnd	0.79	*		2.50	649	746	5.87	
13C-2,3,7,8-TCDD	2.25e+07	0.83	y	27:20	1.02	1680				85.0	
13C-1,2,3,7,8-PeCDD	1.94e+07	1.71	y	33:09	0.84	1770				89.4	
13C-1,2,3,4,7,8-HxCDD	1.37e+07	1.27	y	38:31	1.07	1630				82.6	
13C-1,2,3,6,7,8-HxCDD	1.43e+07	1.27	y	38:42	1.01	1800				91.4	
13C-1,2,3,4,6,7,8-HpCDD	1.08e+07	0.99	y	44:09	0.86	1610				81.8	
13C-OCDD	1.37e+07	0.97	y	49:42	0.55	3210				81.2	
13C-2,3,7,8-TCDF	3.81e+07	0.87	y	26:35	0.99	1630				82.8	
13C-1,2,3,7,8-PeCDF	3.19e+07	1.74	y	31:25	0.84	1620				82.2	
13C-2,3,4,7,8-PeCDF	3.01e+07	1.73	y	32:44	0.81	1580				80.0	
13C-1,2,3,4,7,8-HxCDF	2.62e+07	0.48	y	37:08	1.85	1800				91.4	
13C-1,2,3,6,7,8-HxCDF	3.86e+07	0.48	y	37:20	2.54	1940				98.4	
13C-2,3,4,6,7,8-HxCDF	2.91e+07	0.47	y	38:16	2.01	1850				93.5	
13C-1,2,3,7,8,9-HxCDF	2.84e+07	0.48	y	39:43	2.03	1790				90.6	
13C-1,2,3,4,6,7,8-HpCDF	1.46e+07	0.45	y	42:14	1.11	1690				85.4	
13C-1,2,3,4,7,8,9-HpCDF	9.99e+06	0.43	y	45:04	0.80	1590				80.4	
13C-OCDF	2.89e+07	0.99	y	50:04	1.08	3410				86.5	
37Cl-2,3,7,8-TCDD	6.21e+06			27:21	0.69	692				87.6	
13C-1,2,3,4-TCDD	2.58e+07	0.83	y	26:44	-	56.7					
13C-1,2,3,4-TCDF	4.63e+07	0.87	y	25:29	-	63.2					
13C-1,2,3,7,8,9-HxCDD	1.55e+07	1.20	y	39:09	-	55.3					
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	905	632	1.44	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	726	572	1.79	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	801	747	2.72	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	685	764	3.69	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	862	1180	0.798	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	585	796	1.33	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	585	796	1.33	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	648	614	1.78	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	662	673	4.03	0

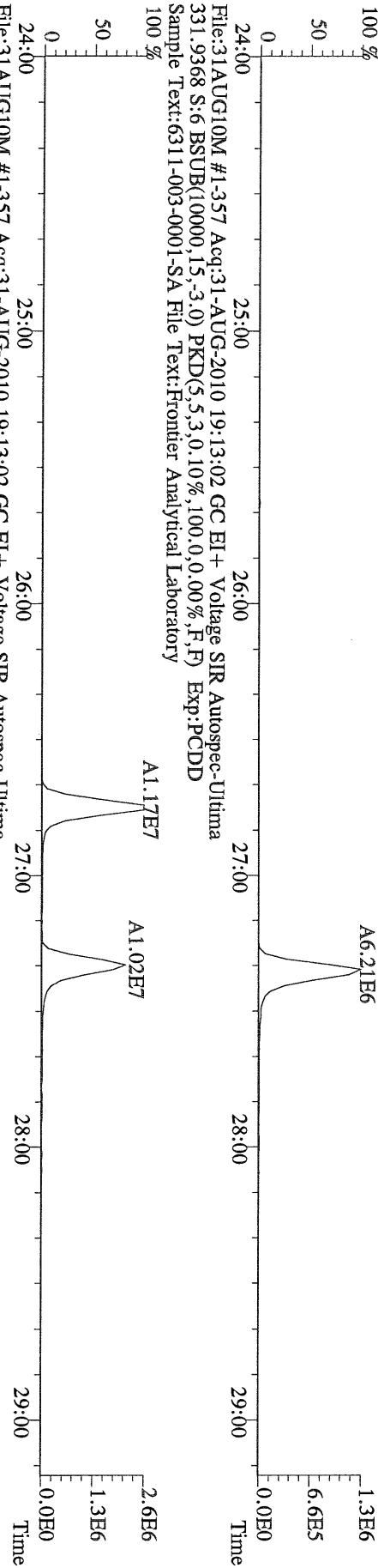
Analyst: 

Date: 9/1/10

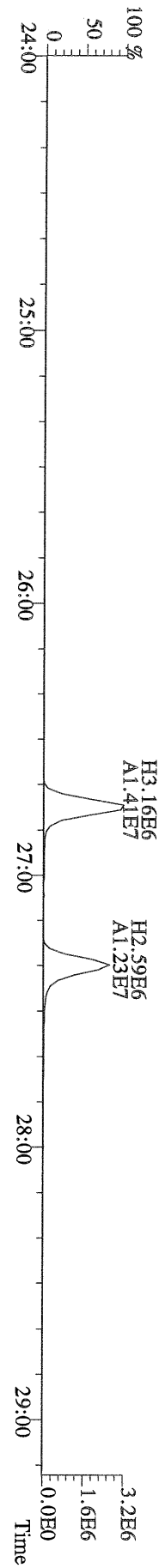
File:31AUG10M #1-357 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Ultima  
 319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



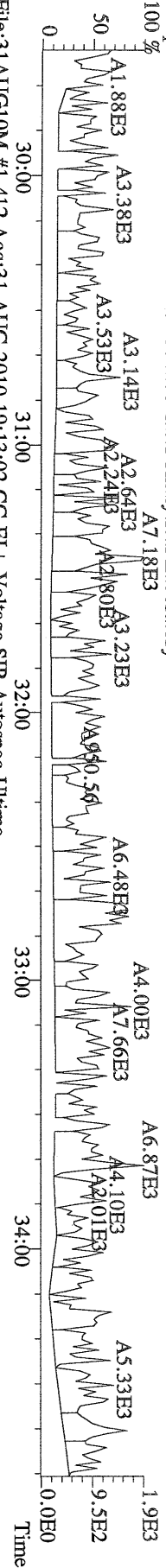
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 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



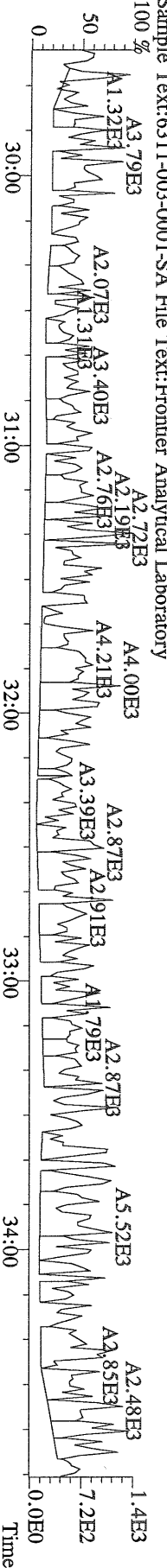
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 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



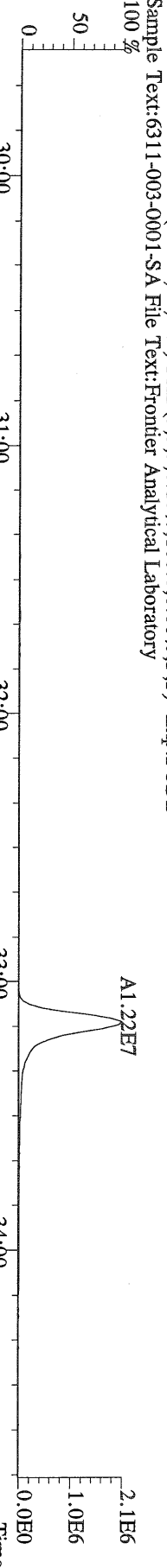
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 355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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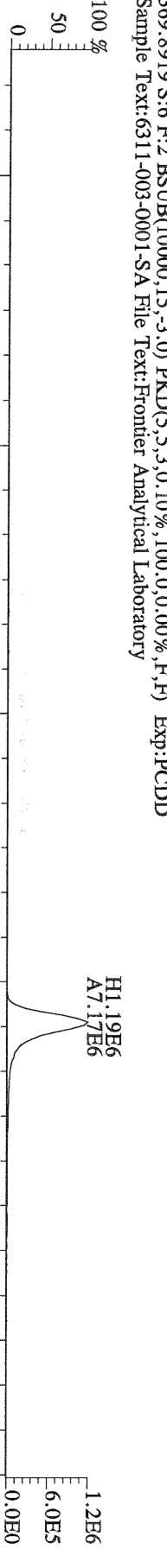
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 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



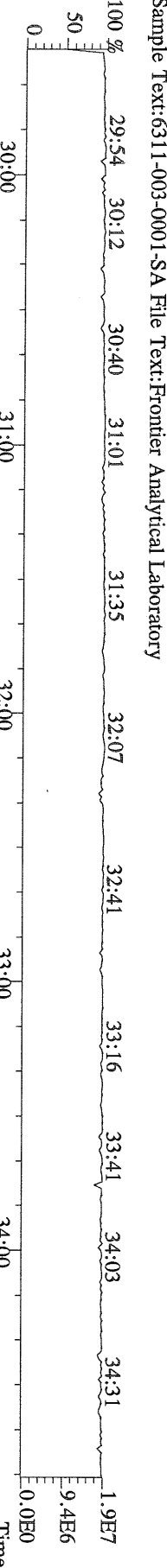
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 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-412 Acq:31-AUG-2010 19:13:02 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:6311-003-0001-SA File Text:Frontier Analytical Laboratory

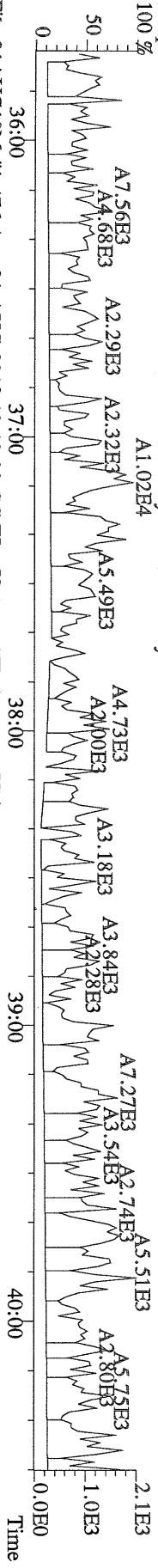


File:31AUG10M #1-412 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Ultima  
 366.9792 S:6 F:2 Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory

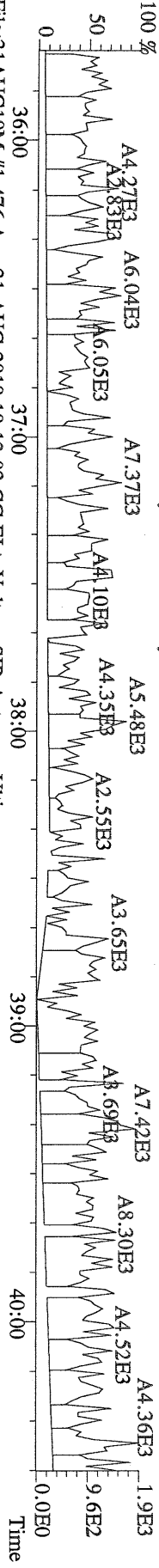




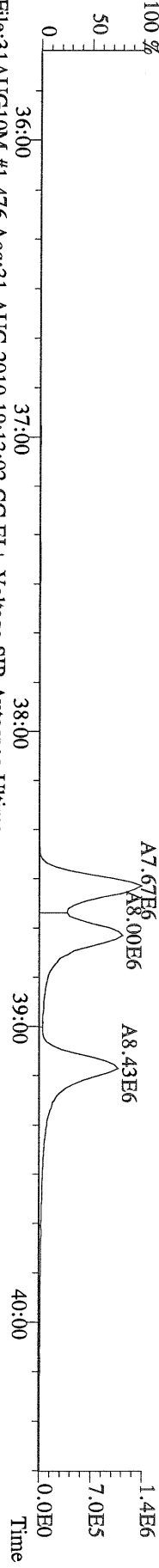
File:31AUG10M #1-476 Acq:31-AUG-2010 19:13:02 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



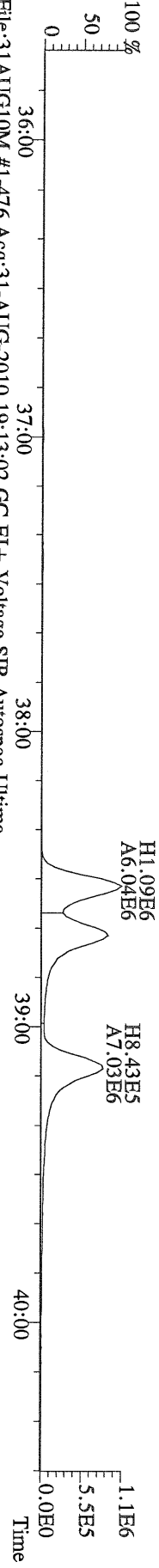
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 391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



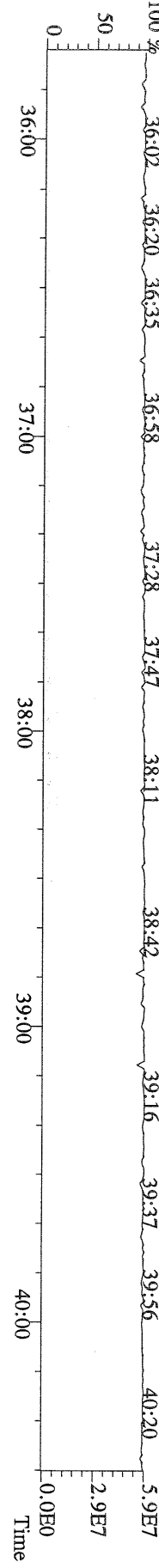
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 401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



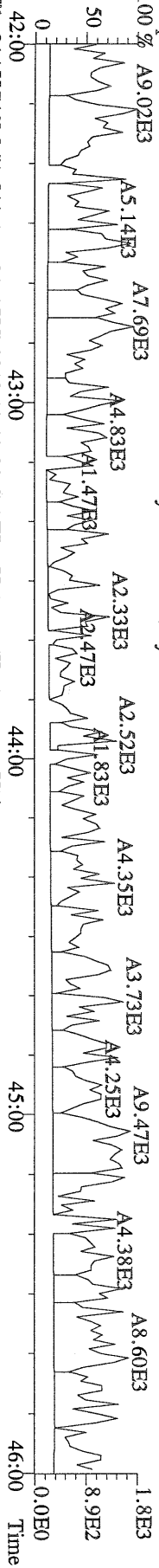
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 403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
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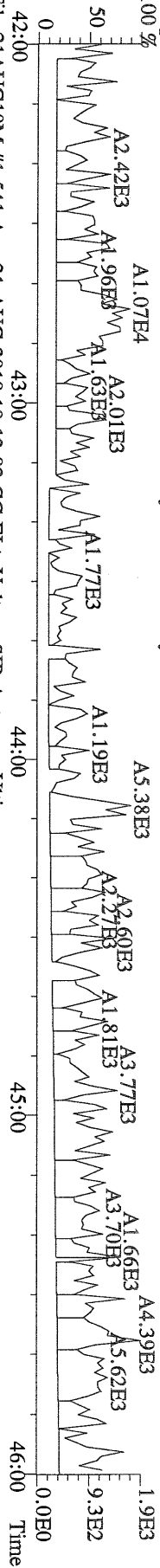
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 380.9760 S:6 F:3 Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



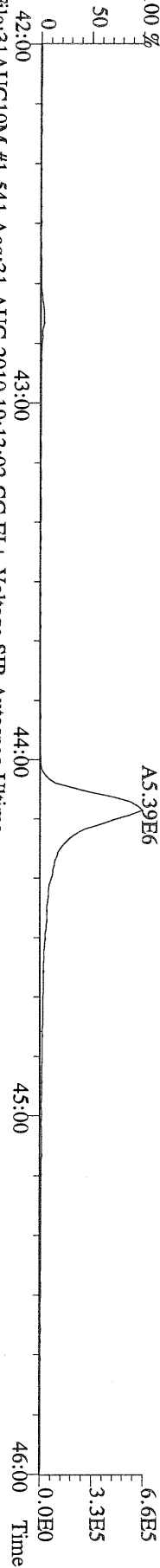
File:31AUG10M #1-541 Acq:31-AUG-2010 19:13:02 GC EI+ Voltage SIR Autospec-Ultima  
 423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory  
 100 % A9.02E3



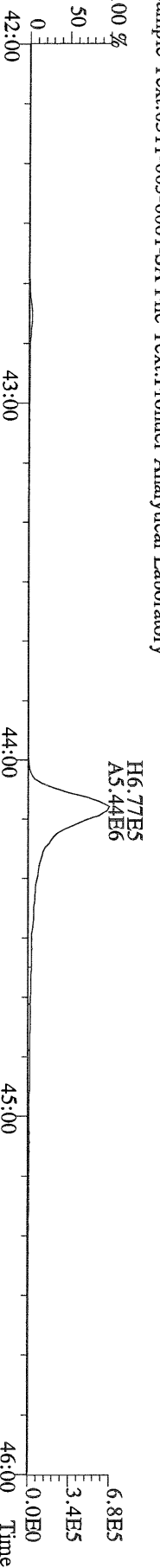
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 100 % A1.07E4



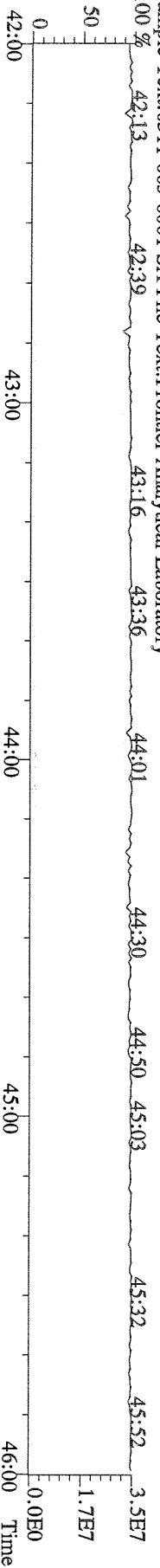
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 435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory  
 100 % A5.39E6



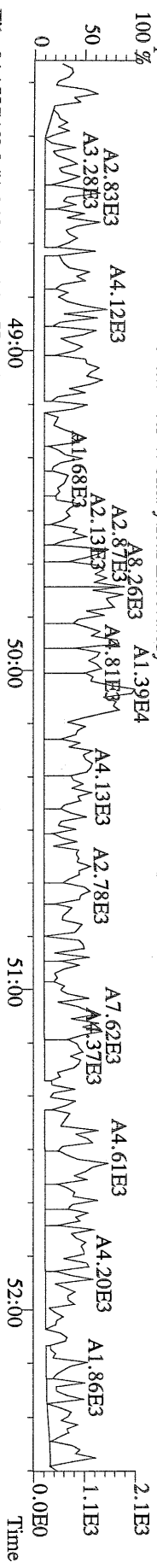
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 100 % A2.13



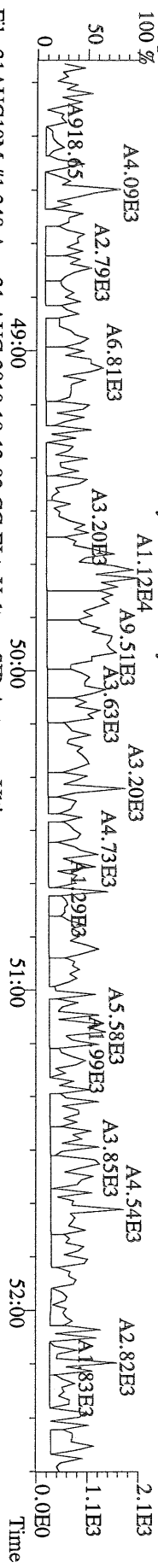
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 430.9728 S:6 F:4 Exp:PCDD  
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 100 % A2.13



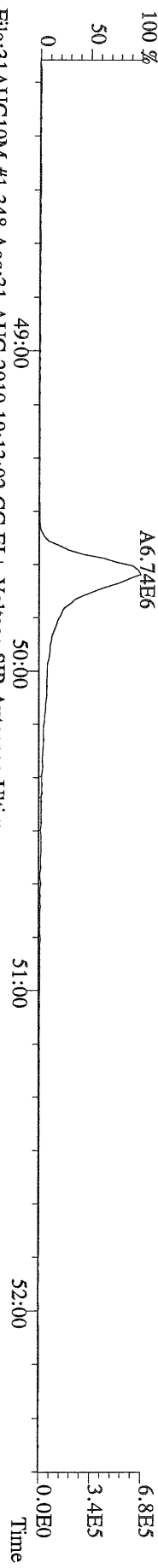
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457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



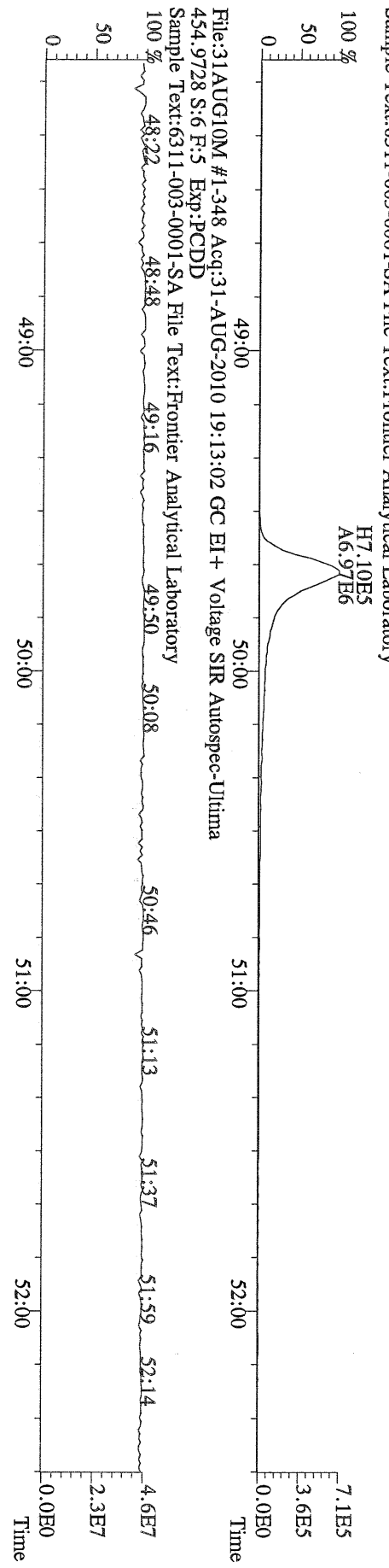
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459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



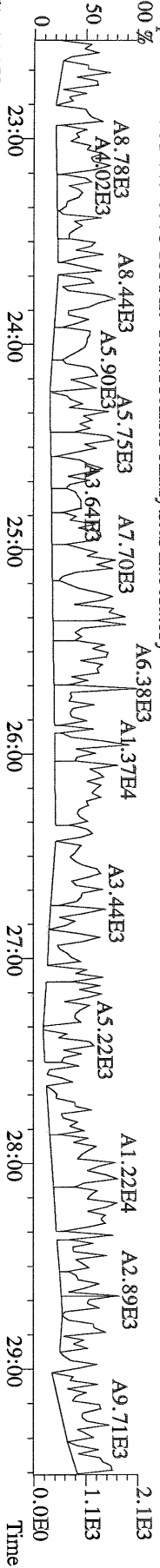
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469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



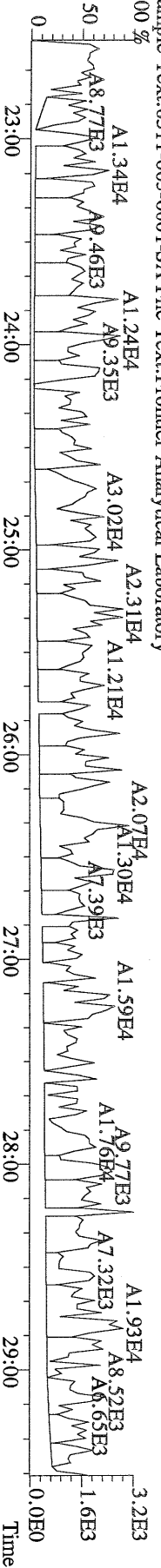
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Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



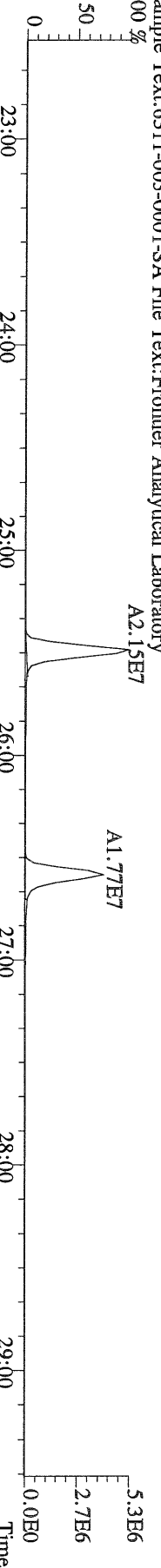
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 303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



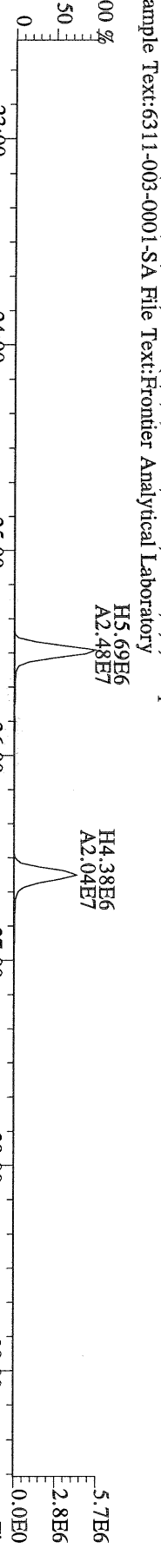
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 305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



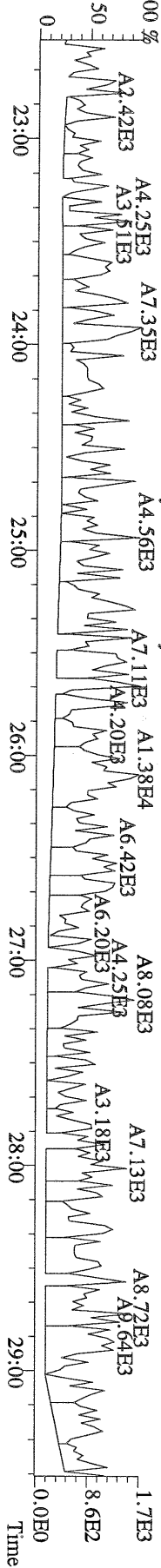
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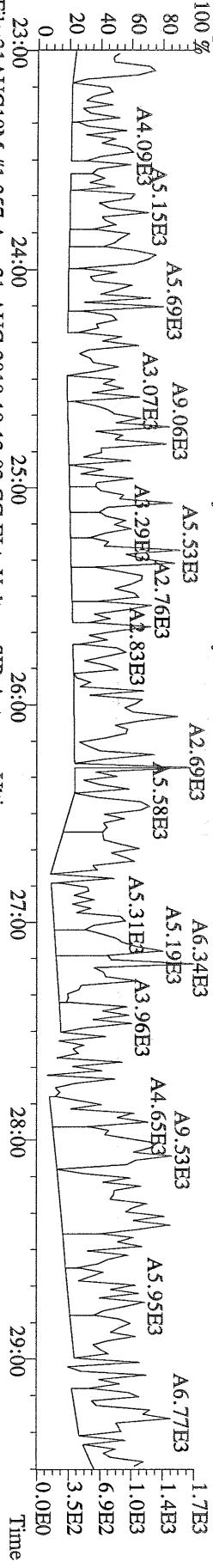
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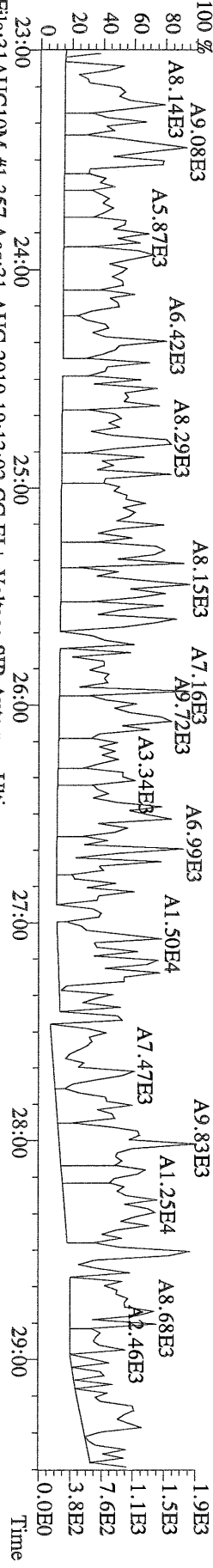
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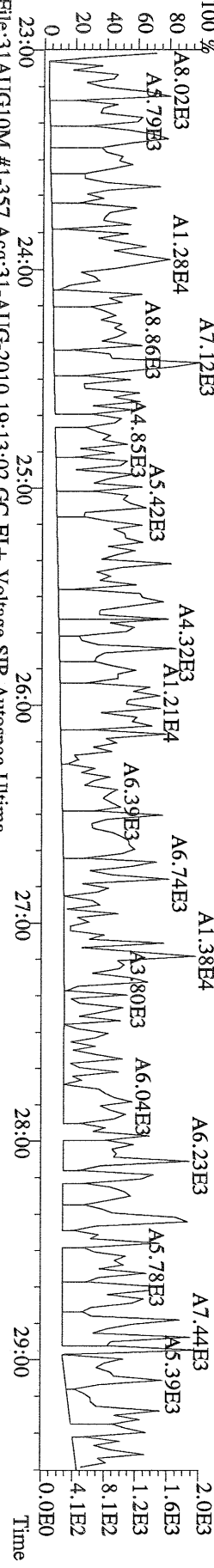
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 339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



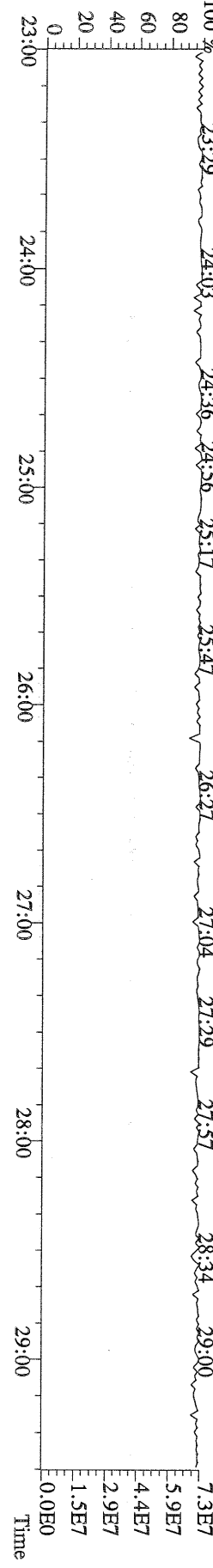
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 341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



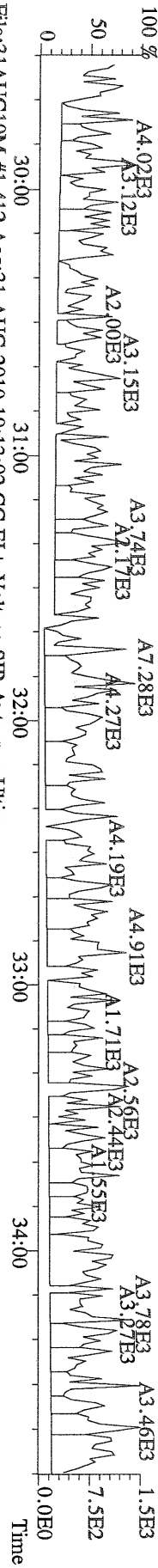
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 409.7974 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



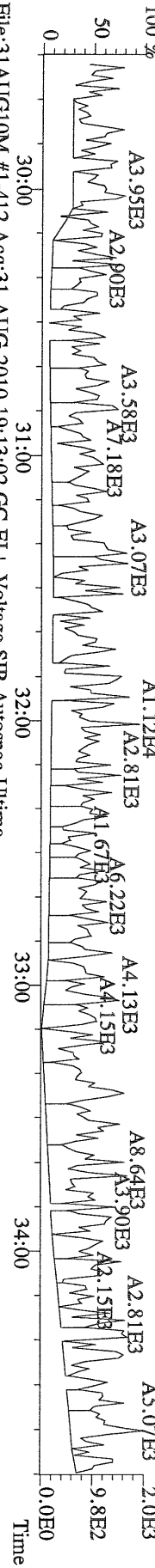
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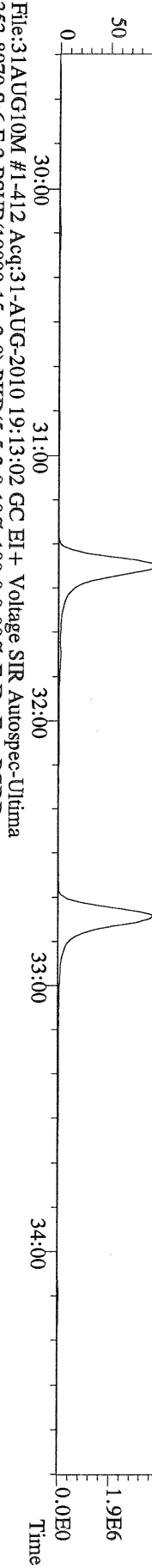
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Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



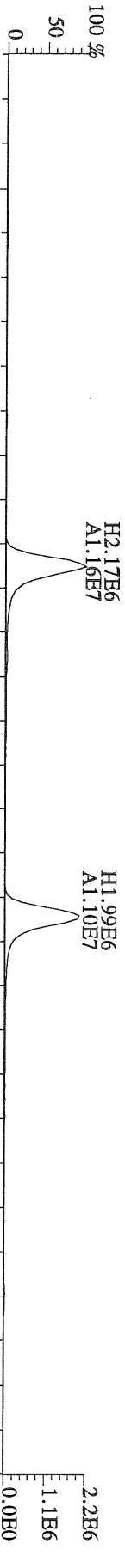
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Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



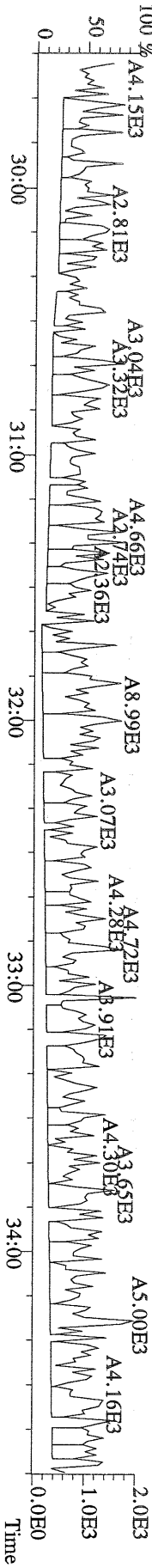
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Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



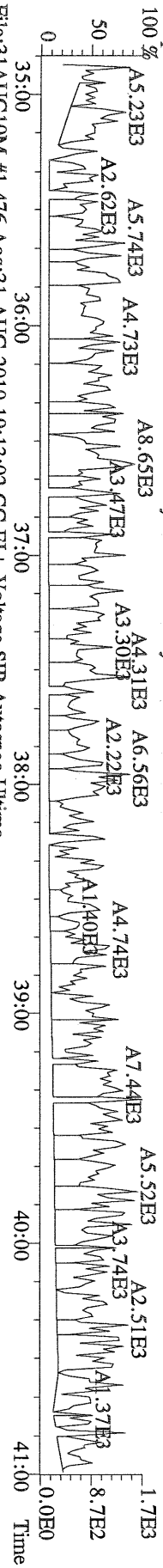
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353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



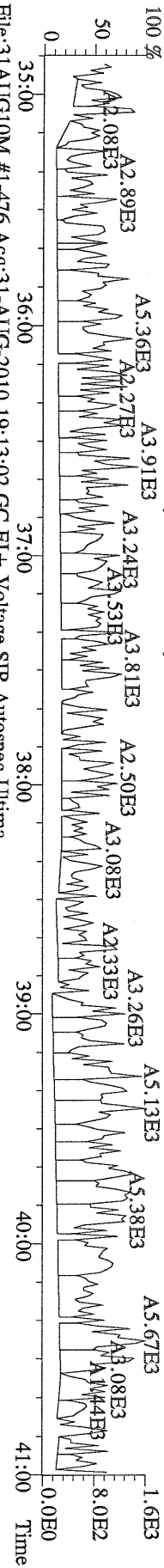
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409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



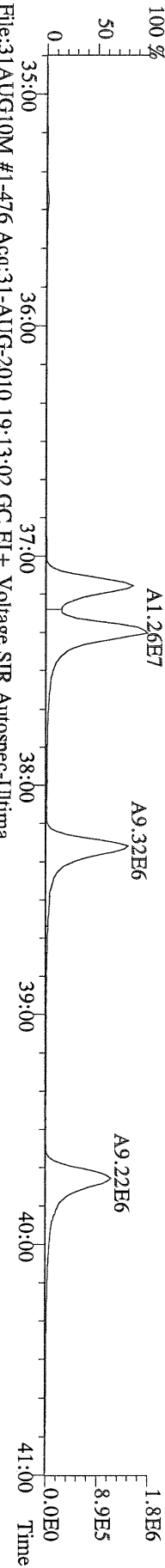
File:31AUG10M #1-476 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Utima  
373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



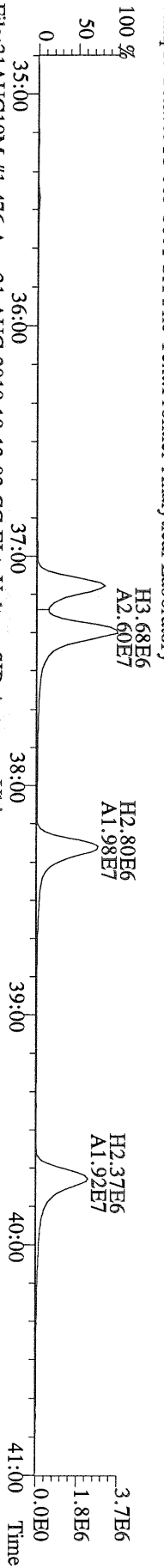
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375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



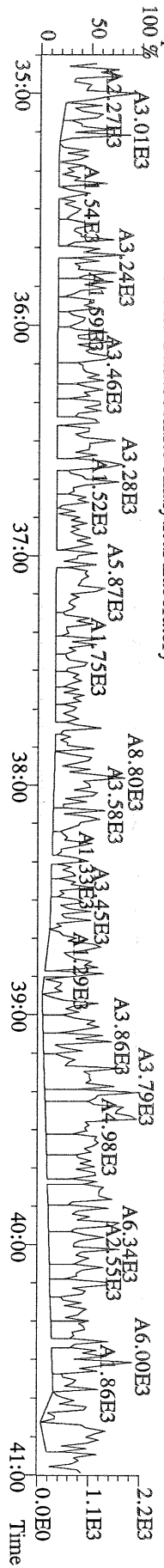
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383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



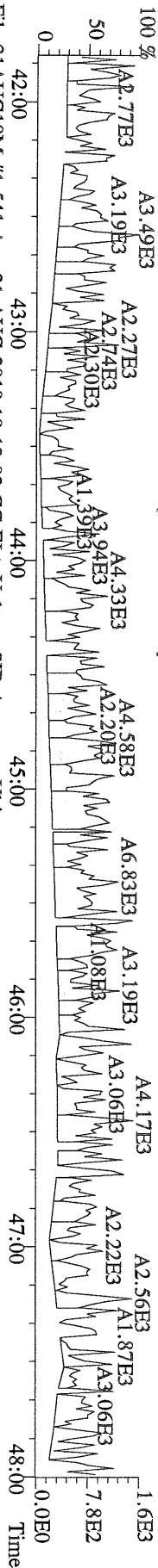
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385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



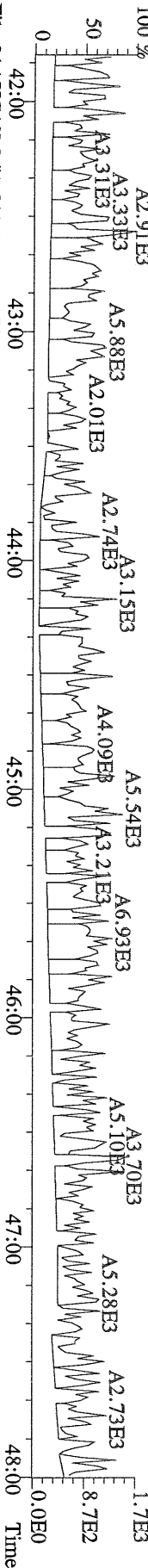
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445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



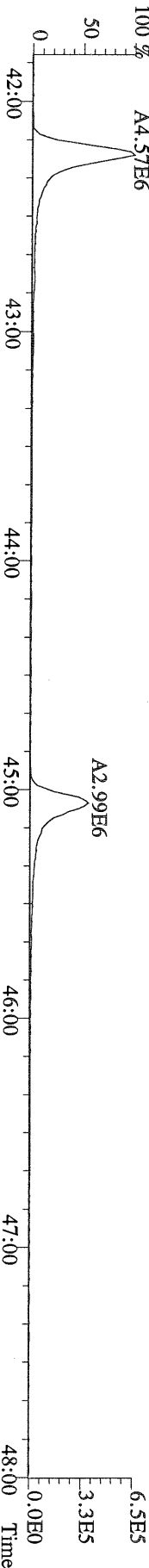
File:31AUG10M #1-541 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Ultima  
407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



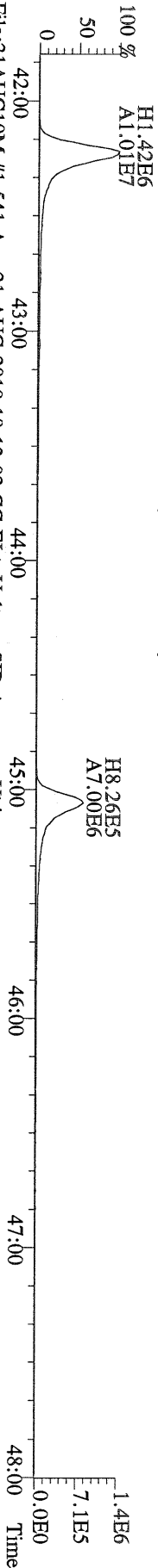
File:31AUG10M #1-541 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Ultima  
409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



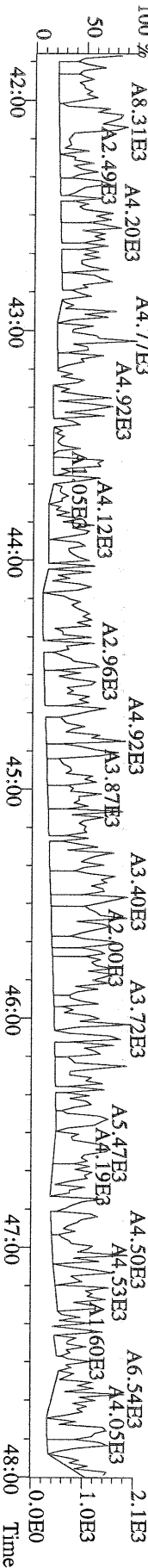
File:31AUG10M #1-541 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Ultima  
417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-541 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Ultima  
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:6311-003-0001-SA File Text:Frontier Analytical Laboratory

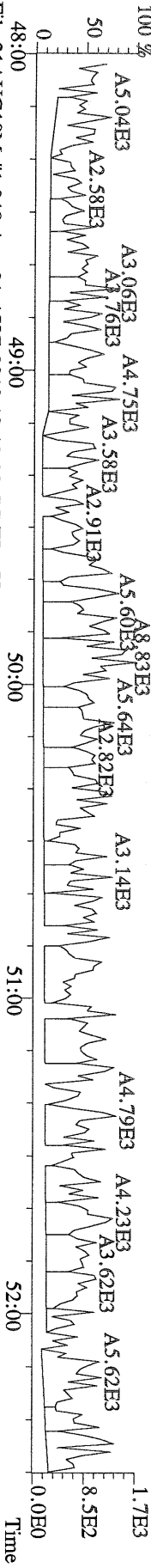


File:31AUG10M #1-541 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Ultima  
479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory

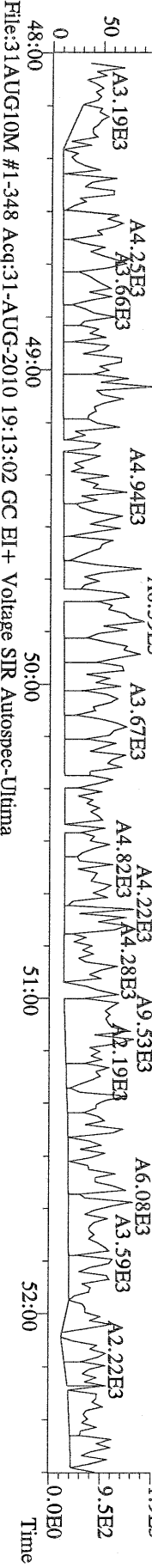




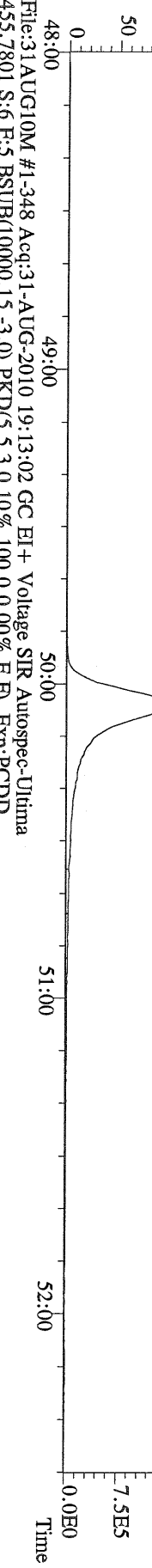
File:31AUG10M #1-348 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Utima  
441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



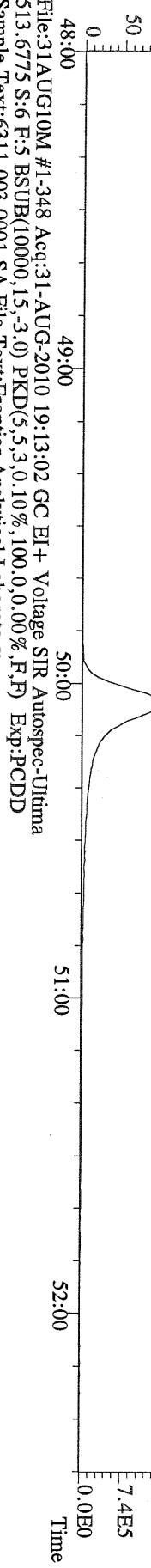
File:31AUG10M #1-348 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Utima  
443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



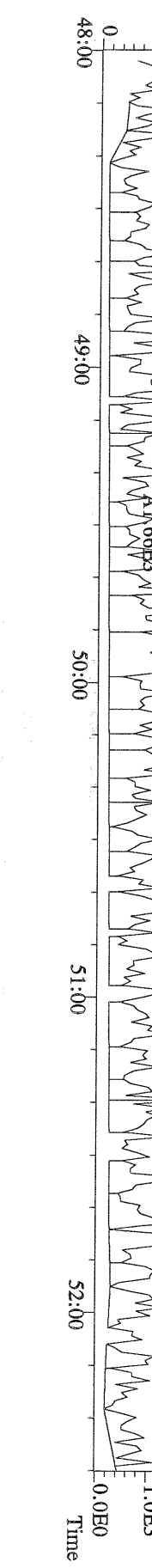
File:31AUG10M #1-348 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Utima  
455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Utima  
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 19:13:02 GC EI + Voltage SIR Autospec-Utima  
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-003-0001-SA File Text:Frontier Analytical Laboratory



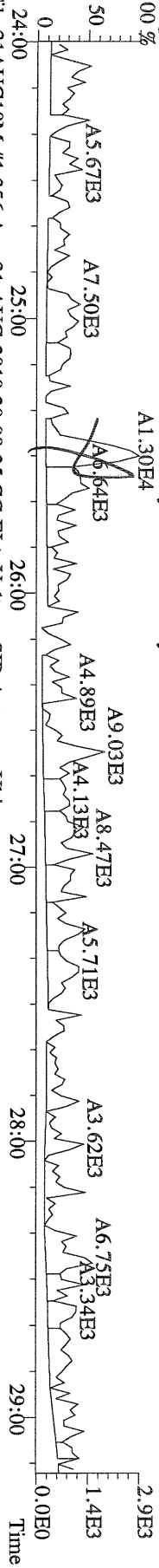
Results: Y      GC Column: DB5      Amount: 1.046      NATO 1989 Tox: 0.00      WHO 1998 Tox: 0.00      WHO 2005 Tox: 0.00

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	961	894	1.81	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	1070	696	2.44	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	793	869	2.58	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	793	869	3.04	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	793	869	2.84	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	837	767	3.91	
OCDD	*	* n	NotFnd	1.43	*		2.50	928	965	9.23	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	924	1270	0.832	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	637	860	1.33	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	637	860	1.34	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	820	793	1.91	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	820	793	1.83	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	820	793	1.92	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	820	793	2.27	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	692	696	2.49	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	692	696	4.19	
OCDF	*	* n	NotFnd	0.79	*		2.50	776	715	6.50	
										Rec	
13C-2,3,7,8-TCDD	2.20e+07	0.85	y	27:21	1.02	1470				77.1	
13C-1,2,3,7,8-PeCDD	1.85e+07	1.78	y	33:10	0.84	1510				79.1	
13C-1,2,3,4,7,8-HxCDD	1.25e+07	1.26	y	38:32	1.07	1290				67.5	
13C-1,2,3,6,7,8-HxCDD	1.41e+07	1.26	y	38:41	1.01	1540				80.4	
13C-1,2,3,4,6,7,8-HpCDD	1.08e+07	0.96	y	44:08	0.86	1400				73.4	
13C-OCDD	1.34e+07	1.01	y	49:42	0.55	2720				71.0	
13C-2,3,7,8-TCDF	3.78e+07	0.86	y	26:35	0.99	1480				77.4	
13C-1,2,3,7,8-PeCDF	3.10e+07	1.73	y	31:25	0.84	1440				75.5	
13C-2,3,4,7,8-PeCDF	3.03e+07	1.73	y	32:45	0.81	1450				76.1	
13C-1,2,3,4,7,8-HxCDF	2.49e+07	0.49	y	37:08	1.85	1490				78.0	
13C-1,2,3,6,7,8-HxCDF	3.69e+07	0.49	y	37:20	2.54	1610				84.2	
13C-2,3,4,6,7,8-HxCDF	2.94e+07	0.49	y	38:16	2.01	1620				84.6	
13C-1,2,3,7,8,9-HxCDF	2.79e+07	0.48	y	39:43	2.03	1520				79.5	
13C-1,2,3,4,6,7,8-HpCDF	1.41e+07	0.46	y	42:14	1.11	1410				73.8	
13C-1,2,3,4,7,8,9-HpCDF	9.42e+06	0.43	y	45:04	0.80	1300				67.9	
13C-OCDF	2.75e+07	1.01	y	50:05	1.08	2820				73.7	
37Cl-2,3,7,8-TCDD	6.64e+06			27:22	0.69	664				86.9	
13C-1,2,3,4-TCDD	2.79e+07	0.84	y	26:45	-	59.3					
13C-1,2,3,4-TCDF	4.91e+07	0.87	y	25:30	-	64.9					
13C-1,2,3,7,8,9-HxCDD	1.73e+07	1.27	y	39:08	-	59.8					
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	961	894	1.81	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	1070	696	2.44	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	793	869	3.04	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	837	767	3.91	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	924	1270	0.832	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	637	860	1.34	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	637	860	1.34	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	820	793	2.27	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	692	696	4.19	0

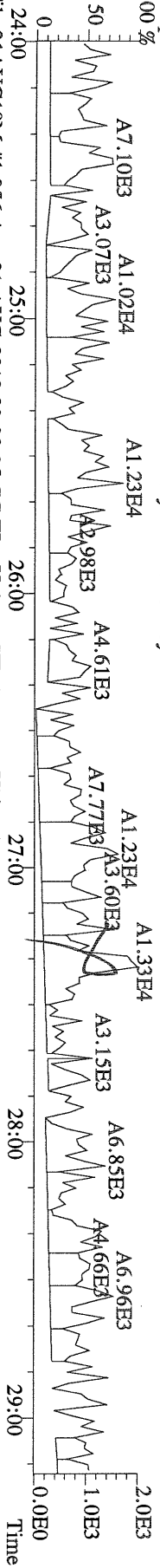
Analyst: 

Date: 9/1/10

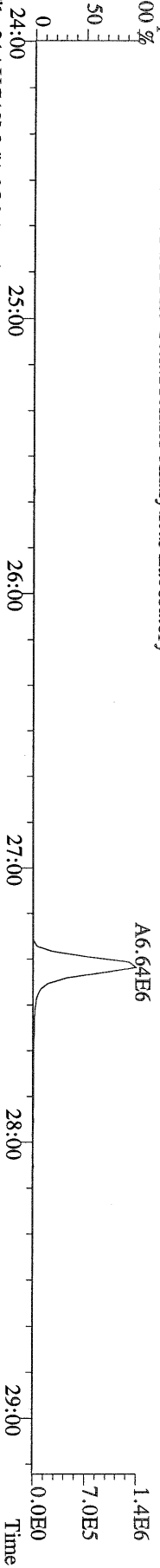
File:31AUG10M #1-356 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Ultima  
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



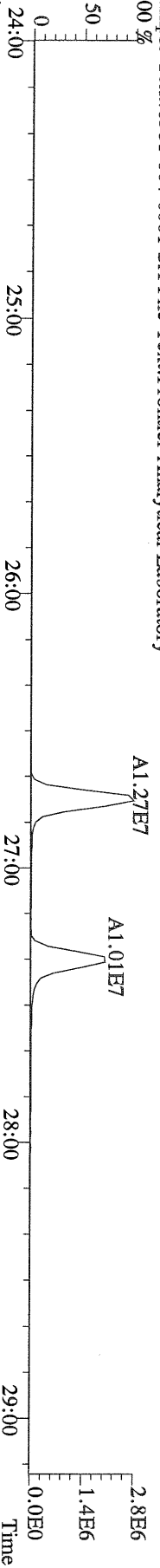
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321.8936 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



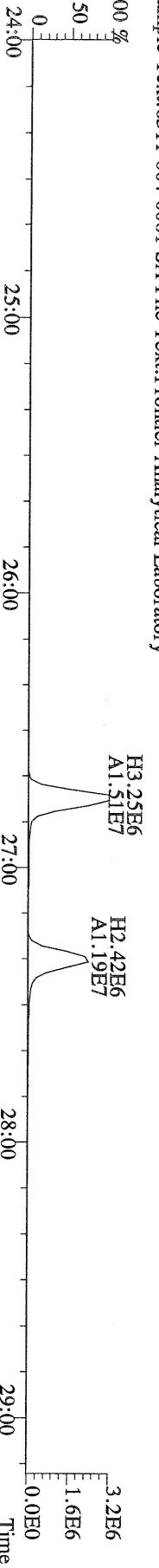
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327.8847 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



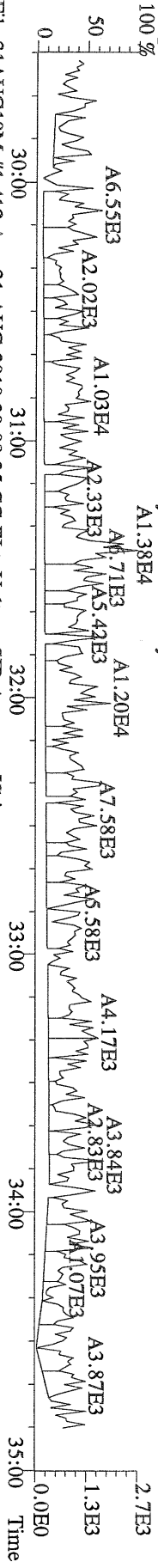
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331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



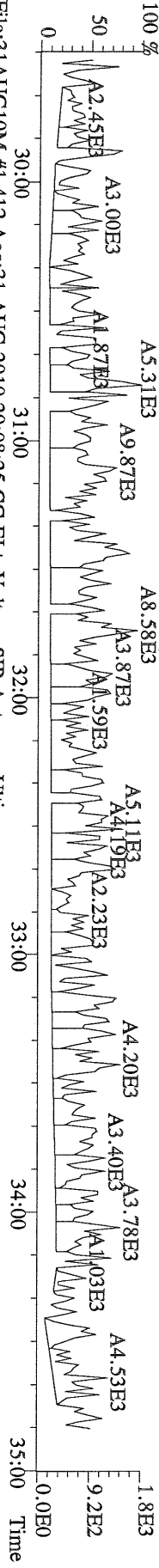
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333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



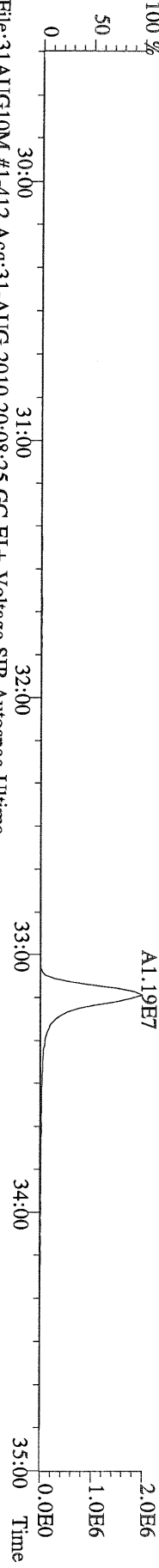
File:31AUG10M #1-412 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Ultima  
 355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



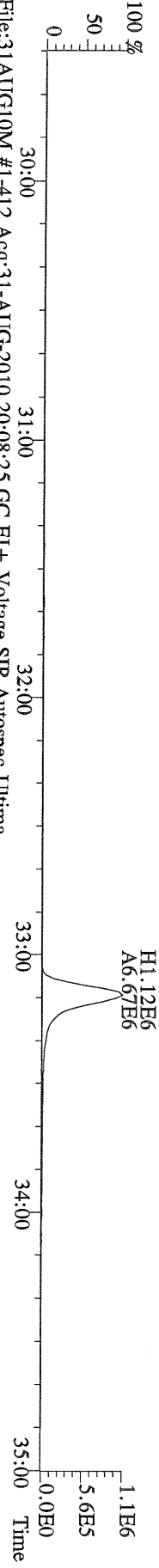
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 357.8517 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD  
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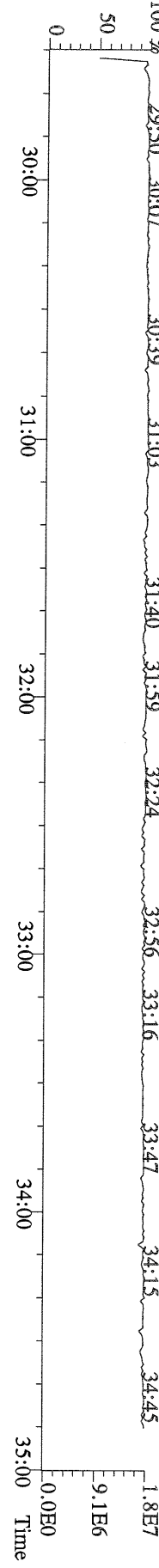
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 367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



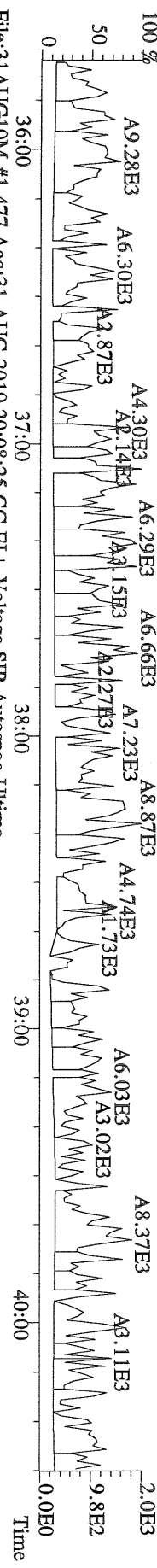
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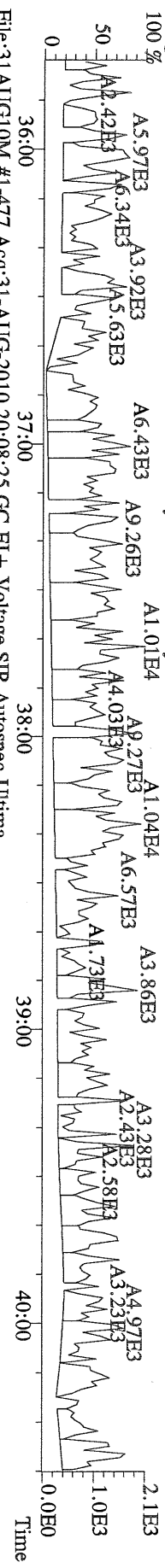
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 366.9792 S:7 F:2 Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



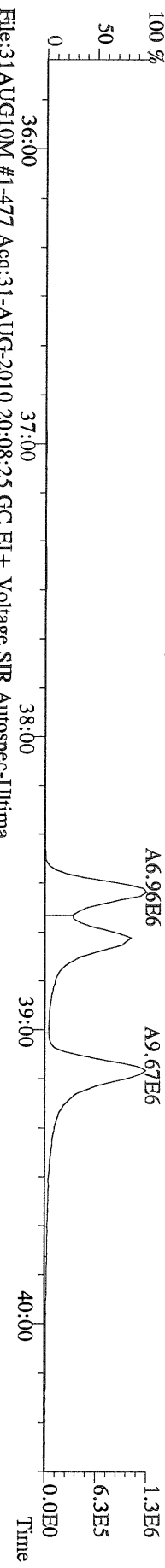
File:31AUG10M #1-477 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Utima  
 389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



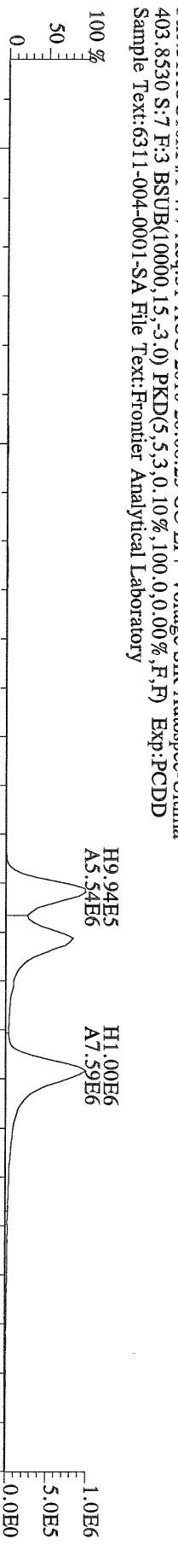
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 391.8127 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



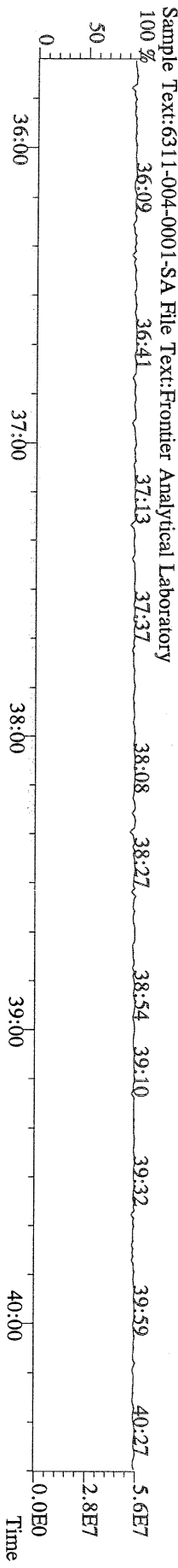
File:31AUG10M #1-477 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Utima  
 401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



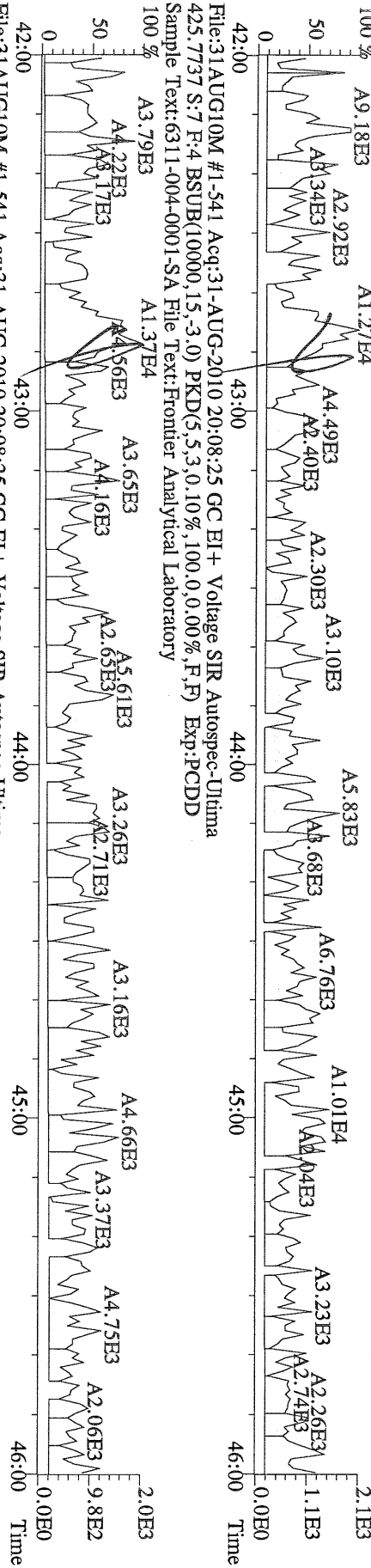
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 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



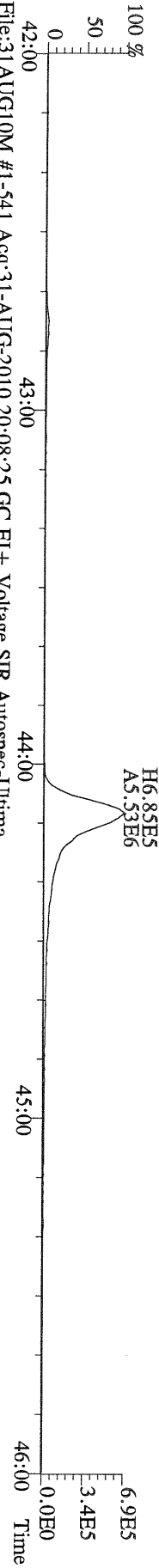
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 380.9760 S:7 F:3 Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-541 Acq:31-AUG-2010 20:08:25 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:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



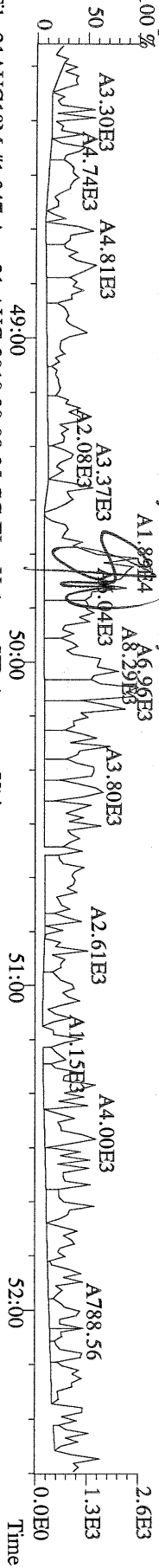
File:31AUG10M #1-541 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
435.8140 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



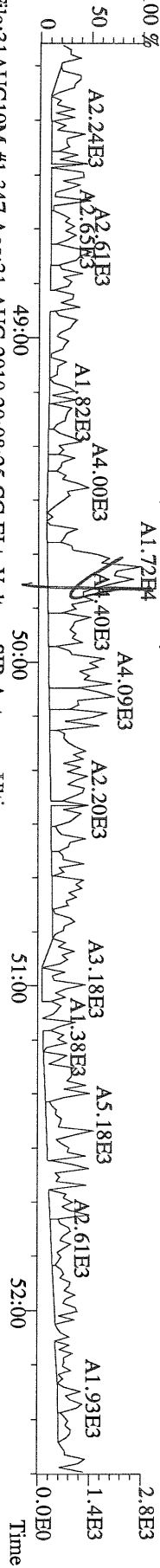
File:31AUG10M #1-541 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
430.9728 S:7 F:4 Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory

42:11 42:27 42:41 42:59 43:13 43:29 43:46 44:14 44:39 44:52 45:16 45:41 3.3E7  
0 50 100 % 0.0E0 1.7E7 3.3E7  
42:00 43:00 44:00 45:00 46:00 Time

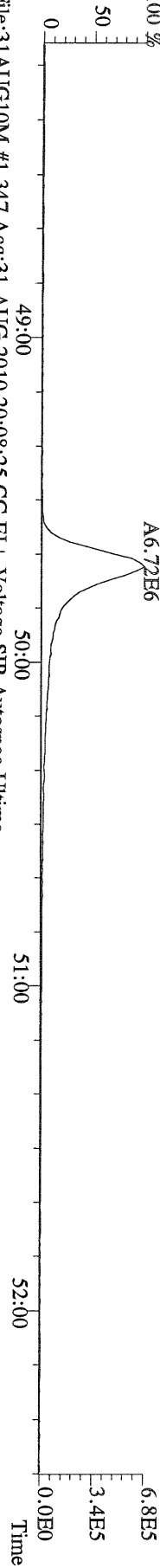
File:31AUG10M #1-347 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Ultima  
457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



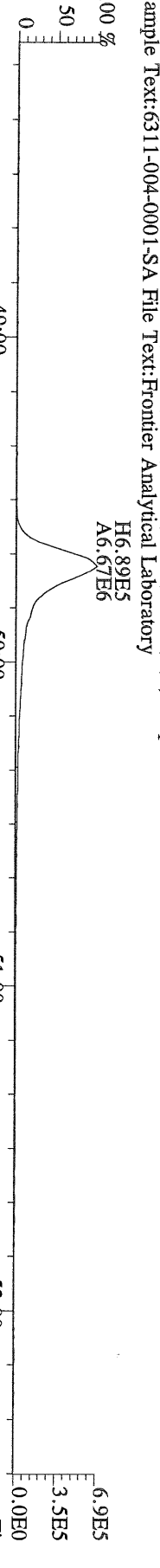
File:31AUG10M #1-347 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Ultima  
459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



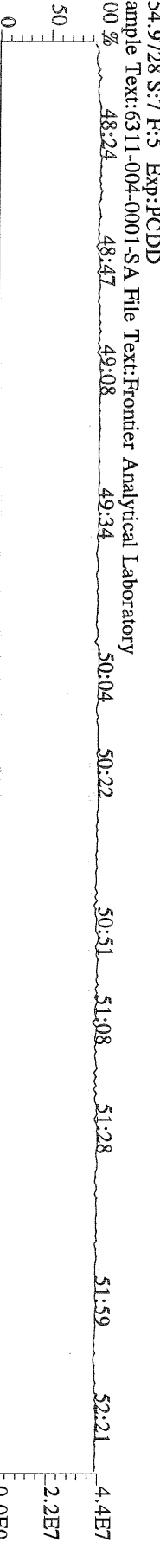
File:31AUG10M #1-347 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Ultima  
469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



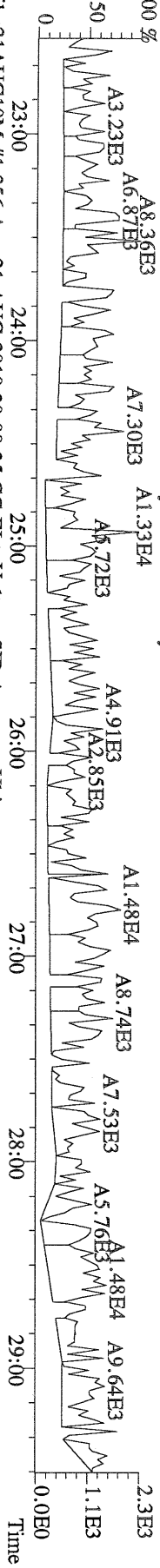
File:31AUG10M #1-347 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Ultima  
471.7750 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



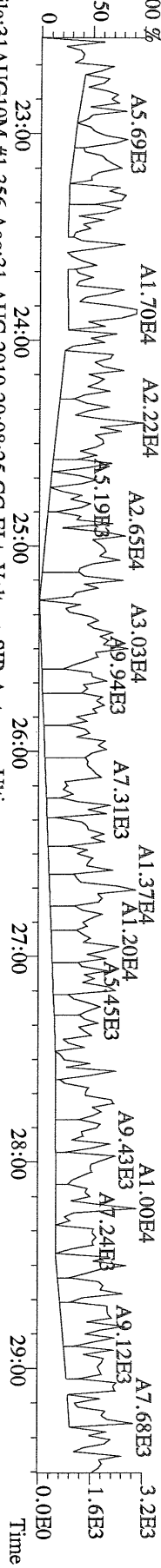
File:31AUG10M #1-347 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Ultima  
454.9728 S:7 F:5 Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



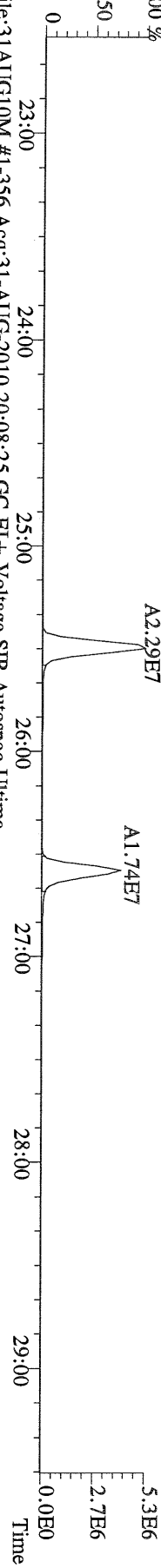
File:31AUG10M #1-356 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Ultima  
303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:63111-004-0001-SA File Text:Frontier Analytical Laboratory



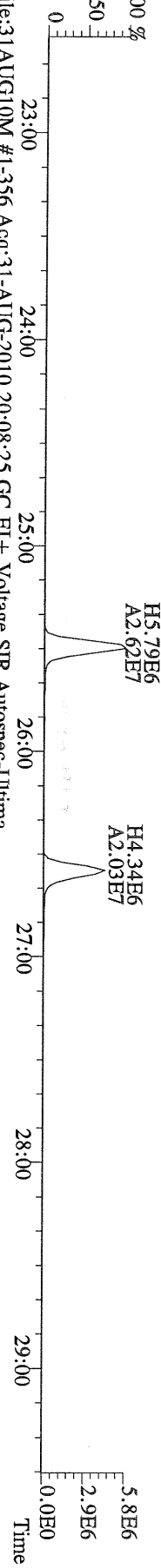
File:31AUG10M #1-356 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Ultima  
305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:63111-004-0001-SA File Text:Frontier Analytical Laboratory



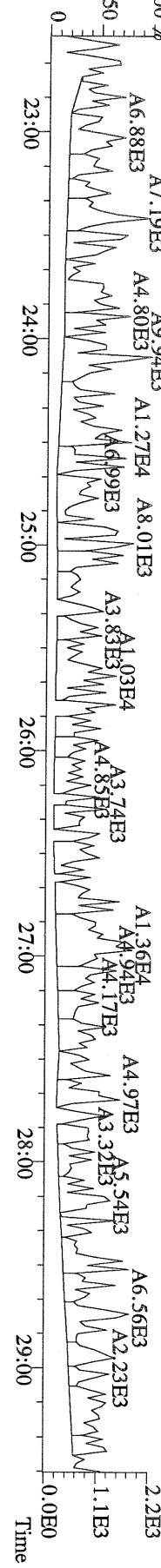
File:31AUG10M #1-356 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Ultima  
315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:63111-004-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-356 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Ultima  
317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:63111-004-0001-SA File Text:Frontier Analytical Laboratory

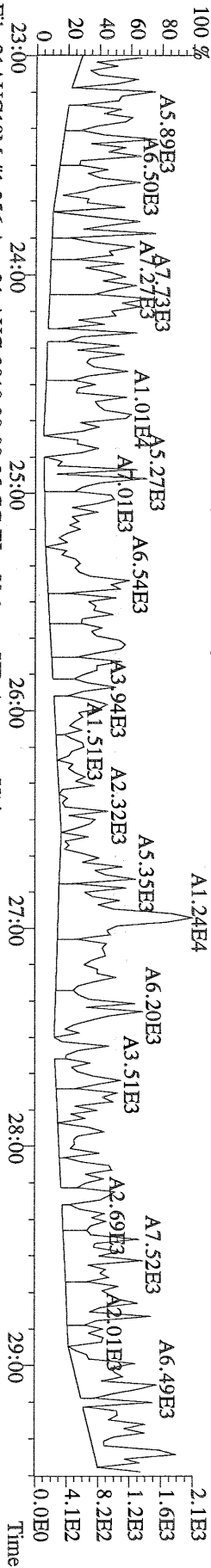


File:31AUG10M #1-356 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Ultima  
375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:63111-004-0001-SA File Text:Frontier Analytical Laboratory

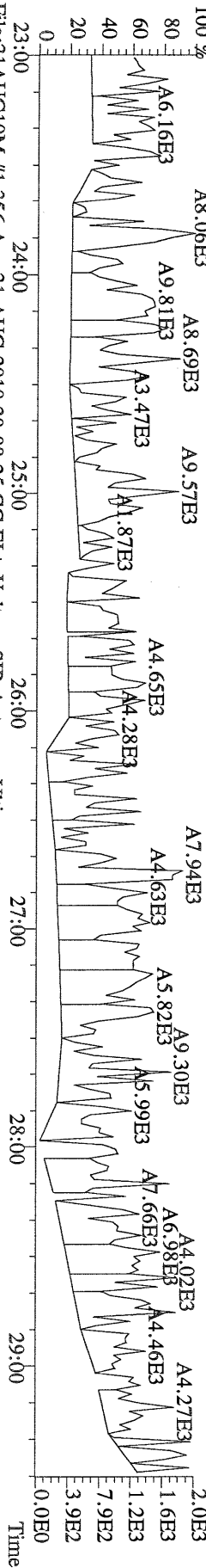




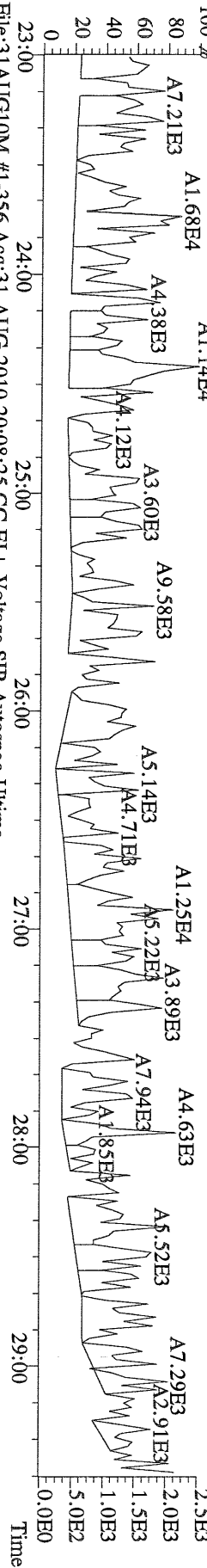
File:31AUG10M #1-356 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
 339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



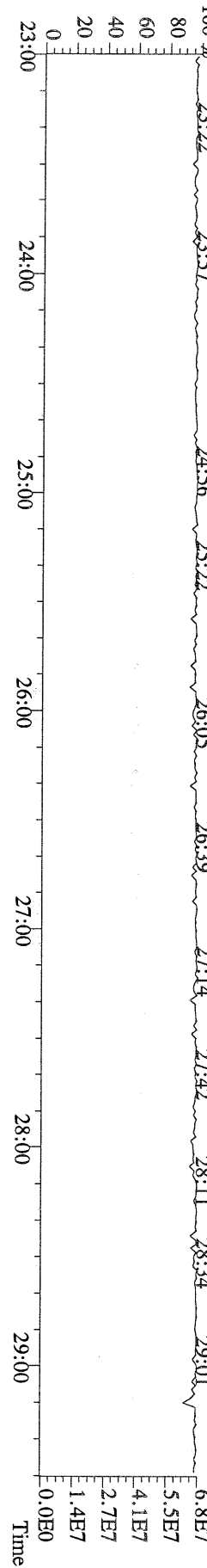
File:31AUG10M #1-356 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
 341.8568 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



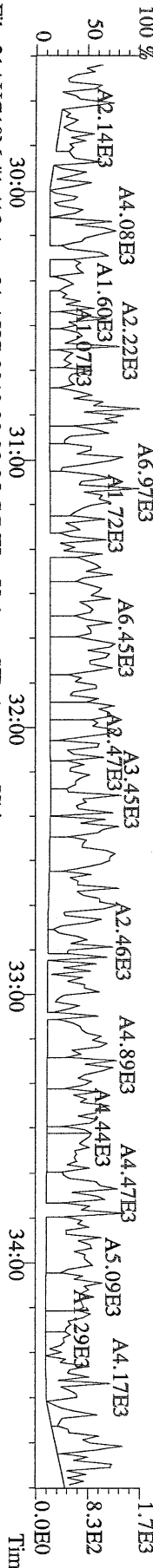
File:31AUG10M #1-356 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
 409.7974 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



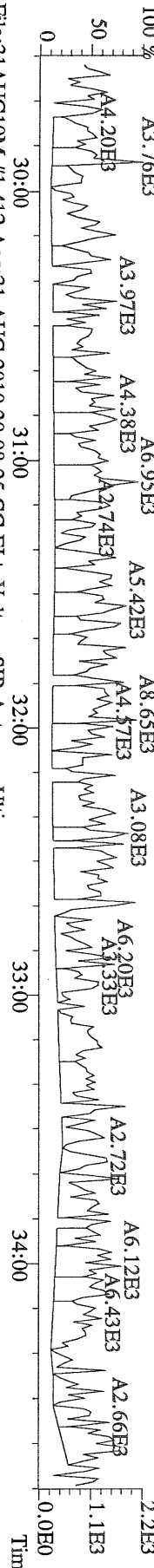
File:31AUG10M #1-356 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
 330.9792 S:7 Exp:PCDD  
 Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



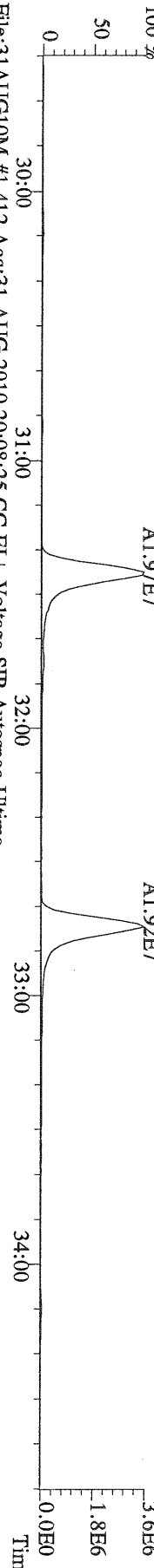
File:31AUG10M #1-412 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Ultima  
339.8597 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



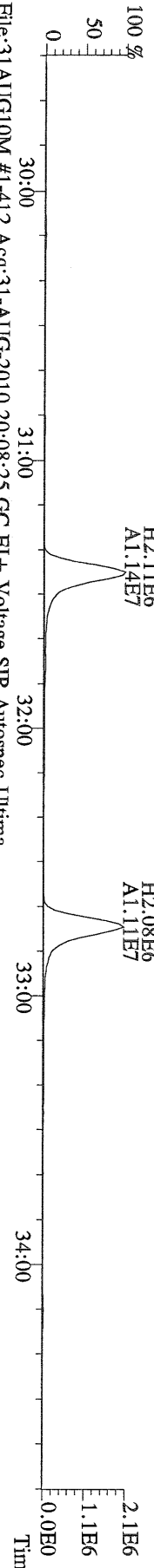
File:31AUG10M #1-412 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Ultima  
341.8568 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



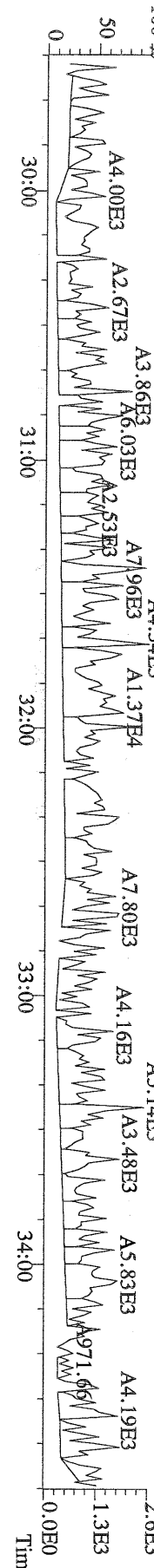
File:31AUG10M #1-412 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Ultima  
351.9000 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



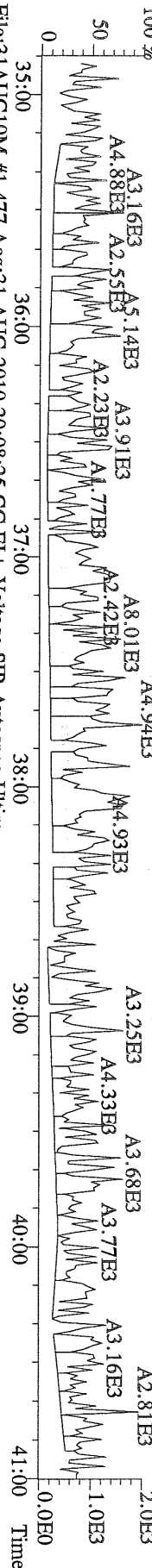
File:31AUG10M #1-412 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Ultima  
353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



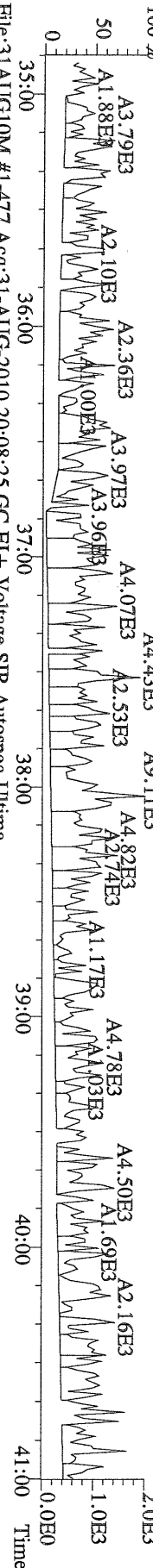
File:31AUG10M #1-412 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Ultima  
409.7974 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-477 Acq:31-AUG-2010 20:08:25 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:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



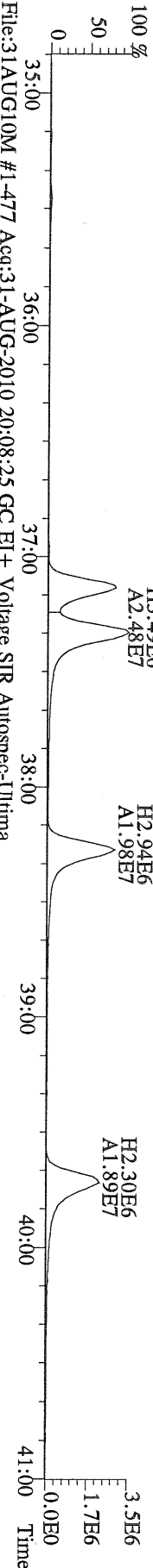
File:31AUG10M #1-477 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Utima  
375.8178 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



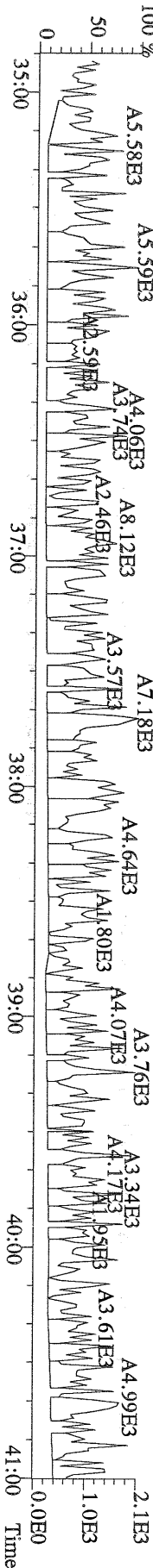
File:31AUG10M #1-477 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Utima  
383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



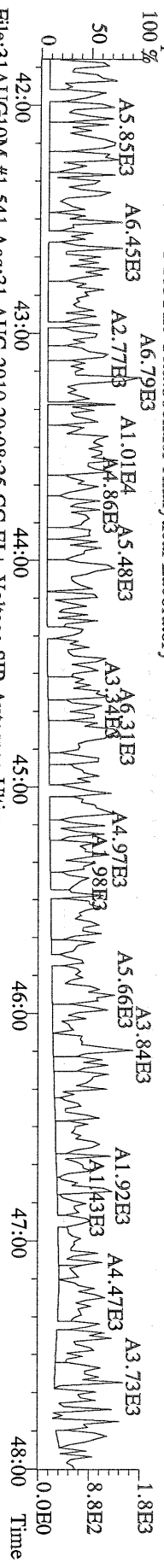
File:31AUG10M #1-477 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Utima  
385.8610 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



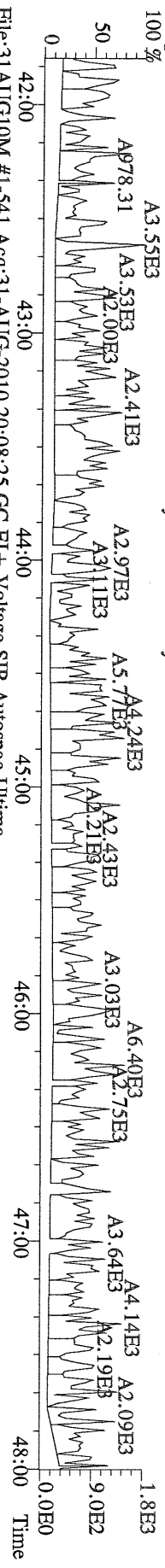
File:31AUG10M #1-477 Acq:31-AUG-2010 20:08:25 GC EI + Voltage SIR Autospec-Utima  
445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



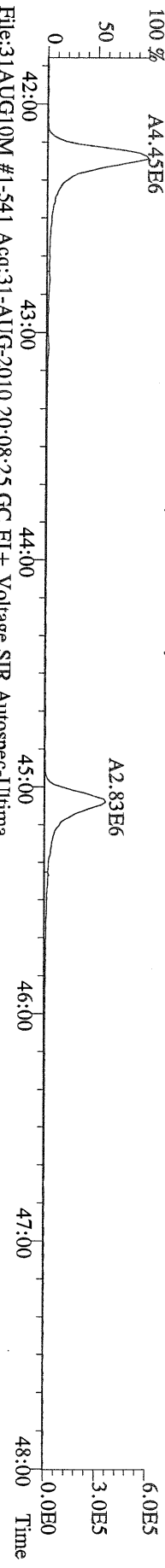
File:31AUG10M #1-541 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
407.7818 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



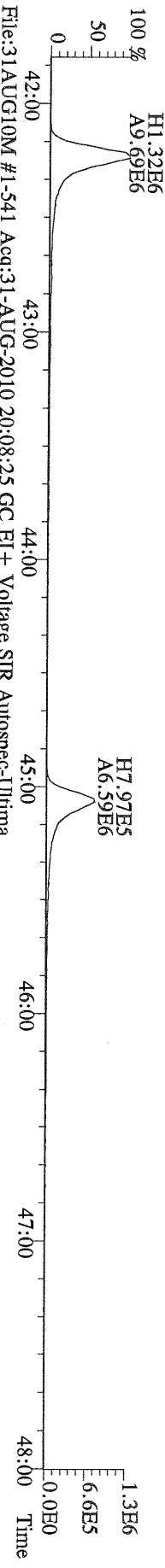
File:31AUG10M #1-541 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



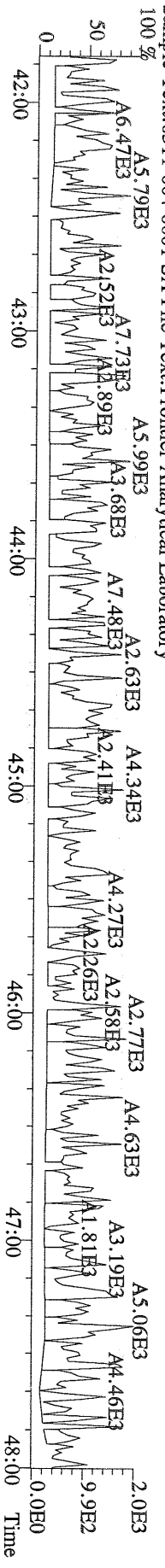
File:31AUG10M #1-541 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
417.8253 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



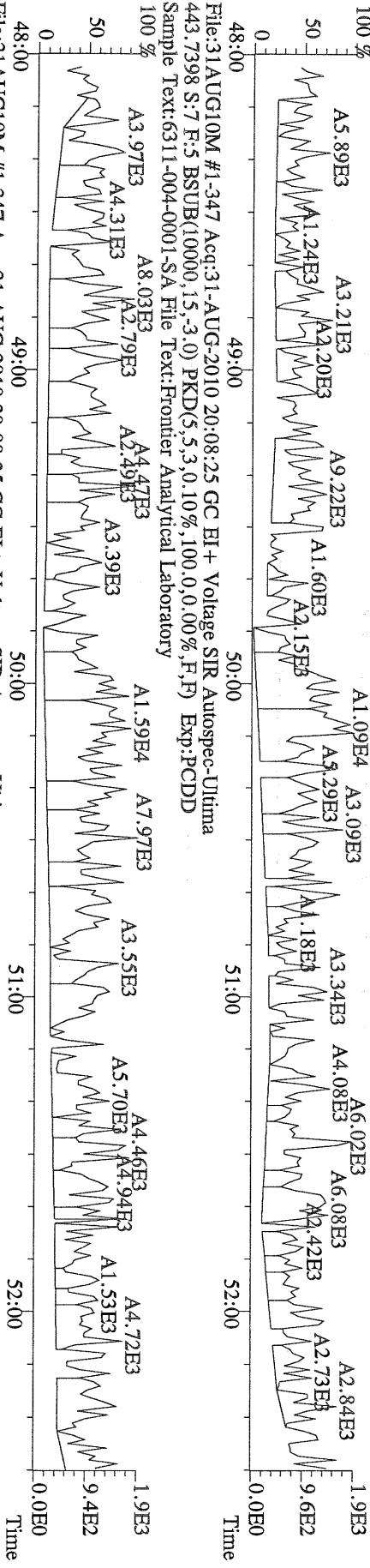
File:31AUG10M #1-541 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
419.8220 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



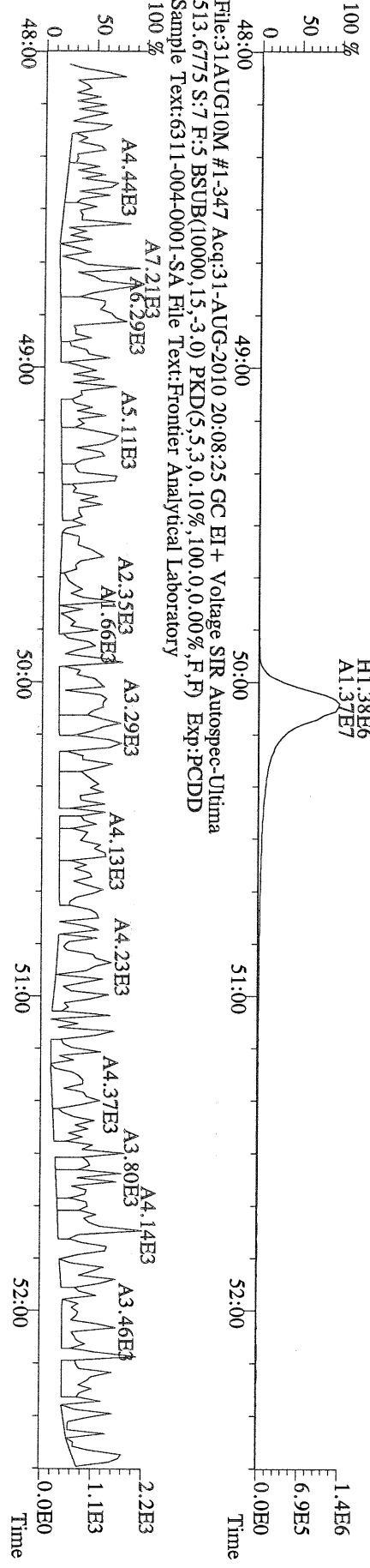
File:31AUG10M #1-541 Acq:31-AUG-2010 20:08:25 GC EI+ Voltage SIR Autospec-Utima  
479.7165 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-004-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-347 Acq:31-AUG-2010 20:08:25 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:6311-004-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-347 Acq:31-AUG-2010 20:08:25 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:6311-004-0001-SA File Text:Frontier Analytical Laboratory

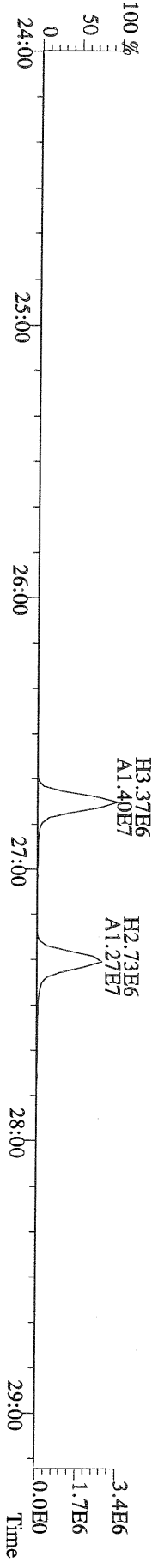
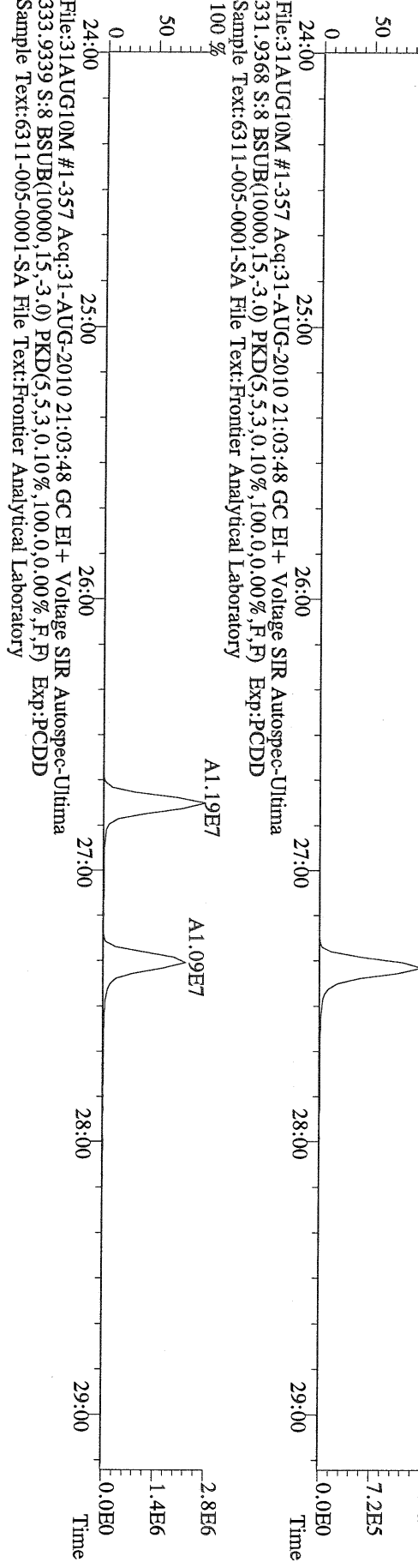
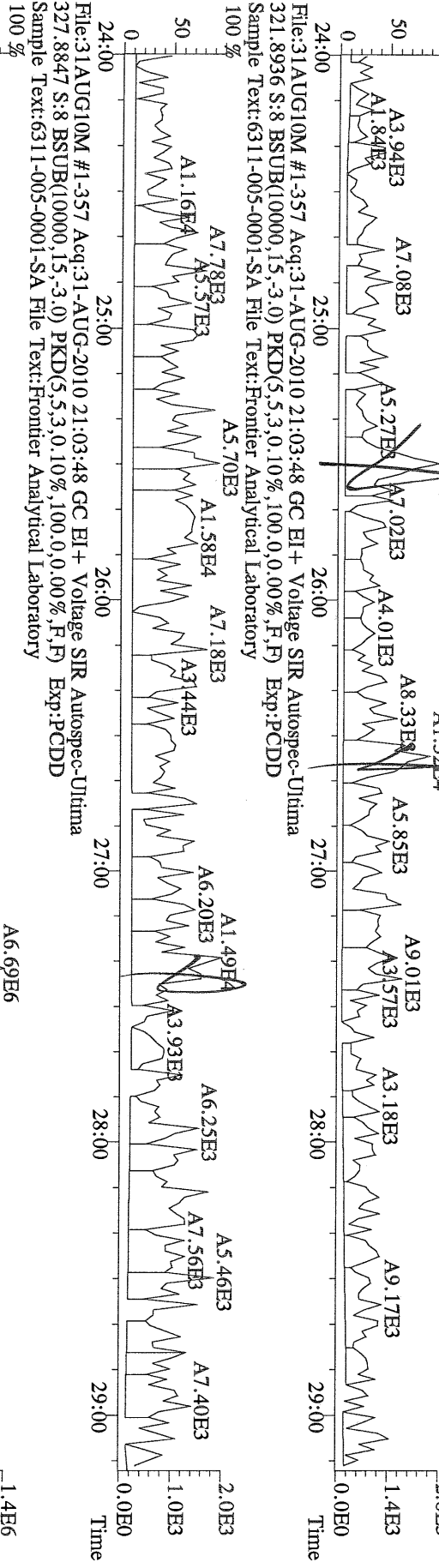


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	981	718	1.51	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	651	686	1.65	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	993	863	2.58	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	993	863	3.22	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	993	863	2.92	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	899	731	3.54	
OCDD	*	* n	NotFnd	1.43	*		2.50	759	550	5.72	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	879	1270	0.825	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	779	799	1.37	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	779	799	1.35	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	791	627	1.56	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	791	627	1.49	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	791	627	1.62	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	791	627	1.86	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	695	571	2.01	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	695	571	3.50	
OCDF	*	* n	NotFnd	0.79	*		2.50	535	721	5.24	
13C-2,3,7,8-TCDD	2.36e+07	0.86	y	27:20	1.02	1760				88.9	
13C-1,2,3,7,8-PeCDD	2.11e+07	1.75	y	33:10	0.84	1920				96.7	
13C-1,2,3,4,7,8-HxCDD	1.43e+07	1.30	y	38:32	1.07	1680				84.9	
13C-1,2,3,6,7,8-HxCDD	1.43e+07	1.22	y	38:41	1.01	1790				90.1	
13C-1,2,3,4,6,7,8-HpCDD	1.19e+07	0.97	y	44:08	0.86	1760				88.8	
13C-OCDD	1.41e+07	0.92	y	49:42	0.55	3260				82.2	
13C-2,3,7,8-TCDF	3.94e+07	0.86	y	26:36	0.99	1790				90.3	
13C-1,2,3,7,8-PeCDF	3.25e+07	1.76	y	31:25	0.84	1750				88.3	
13C-2,3,4,7,8-PeCDF	3.30e+07	1.78	y	32:45	0.81	1840				92.6	
13C-1,2,3,4,7,8-HxCDF	2.78e+07	0.49	y	37:08	1.85	1900				95.7	
13C-1,2,3,6,7,8-HxCDF	3.85e+07	0.49	y	37:20	2.54	1920				96.7	
13C-2,3,4,6,7,8-HxCDF	3.01e+07	0.50	y	38:17	2.01	1890				95.3	
13C-1,2,3,7,8,9-HxCDF	2.88e+07	0.50	y	39:43	2.03	1790				90.4	
13C-1,2,3,4,6,7,8-HpCDF	1.55e+07	0.44	y	42:14	1.11	1770				89.0	
13C-1,2,3,4,7,8,9-HpCDF	1.01e+07	0.45	y	45:04	0.80	1590				80.4	
13C-OCDF	2.89e+07	1.00	y	50:05	1.08	3370				85.0	
37Cl-2,3,7,8-TCDD	6.69e+06			27:22	0.69	746				94.1	
13C-1,2,3,4-TCDD	2.59e+07	0.85	y	26:45	-	57.3					
13C-1,2,3,4-TCDF	4.39e+07	0.87	y	25:30	-	60.2					
13C-1,2,3,7,8,9-HxCDD	1.57e+07	1.28	y	39:09	-	56.5					
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	981	718	1.51	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	651	686	1.65	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	993	863	3.22	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	899	731	3.54	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	879	1270	0.825	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	779	799	1.37	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	779	799	1.37	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	791	627	1.86	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	695	571	3.50	0

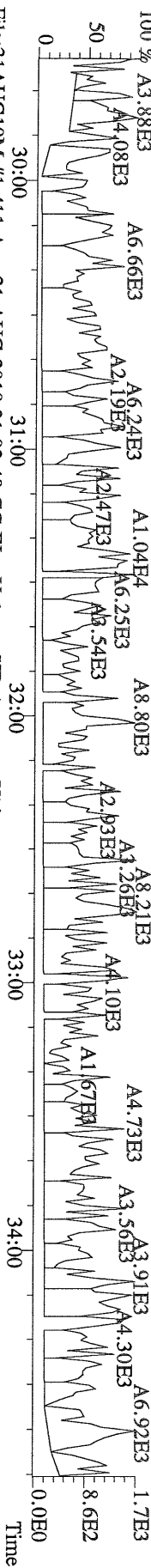
Analyst: 

Date: 9/1/10

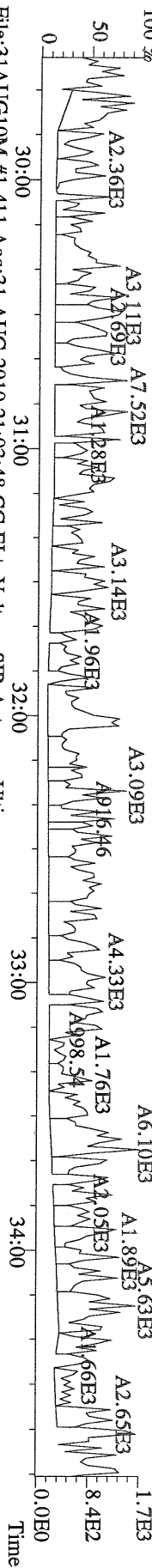
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 319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



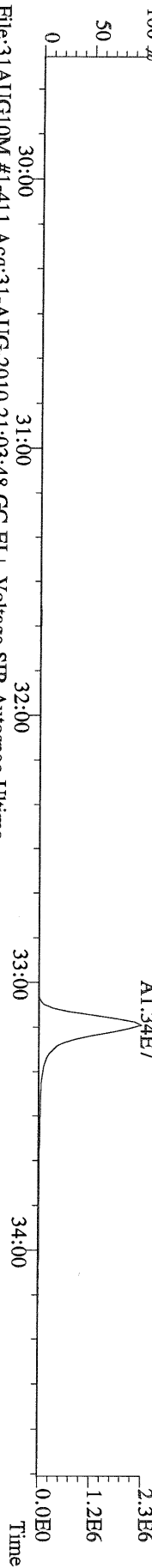
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 Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



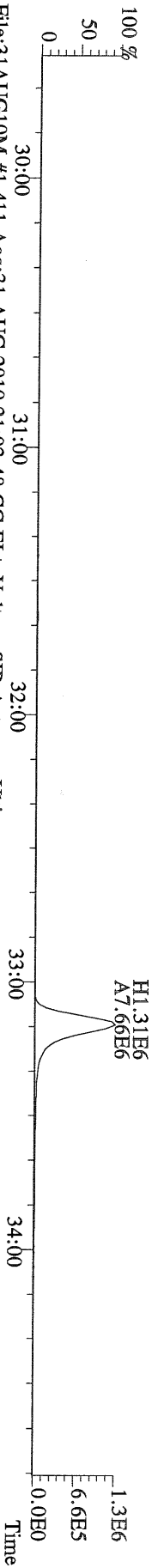
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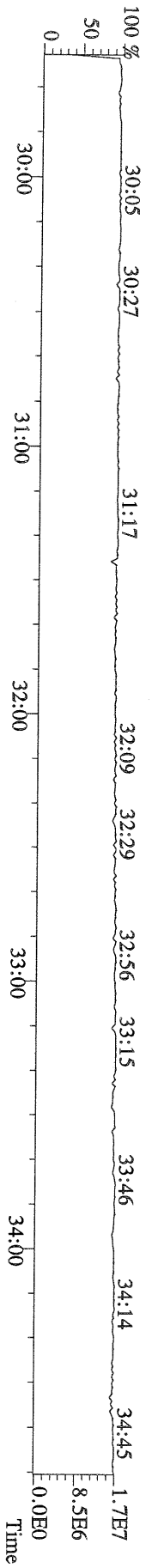
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 367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-411 Acq:31-AUG-2010 21:03:48 GC EI+ Voltage SIR Autospec-Ultima  
 369.8919 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
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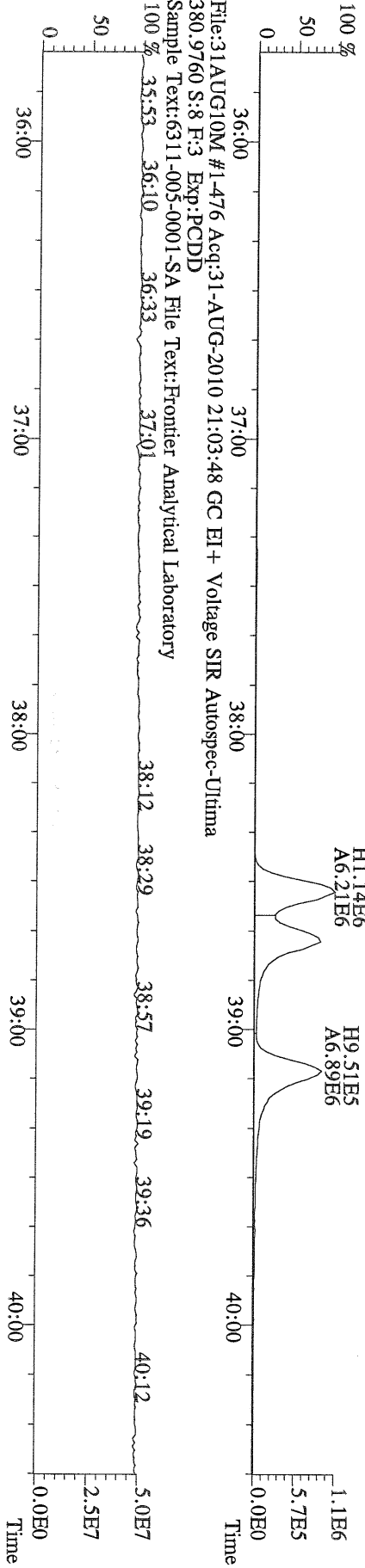
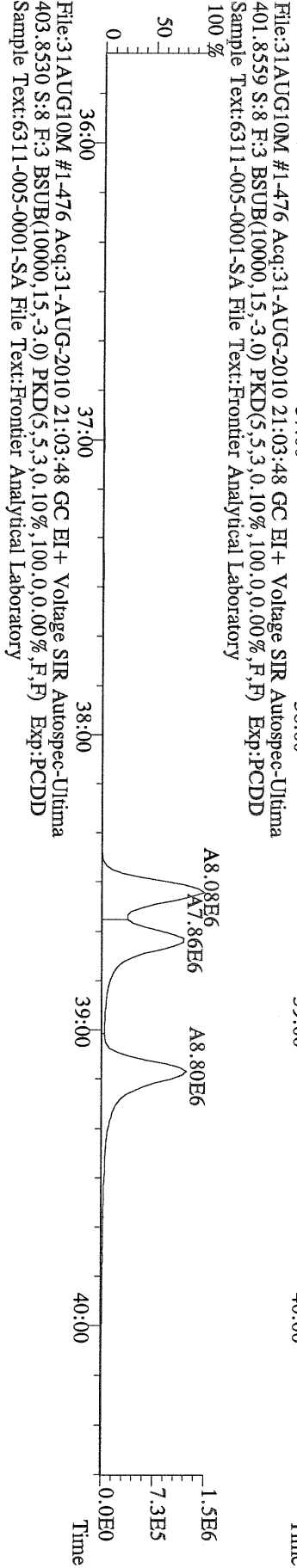
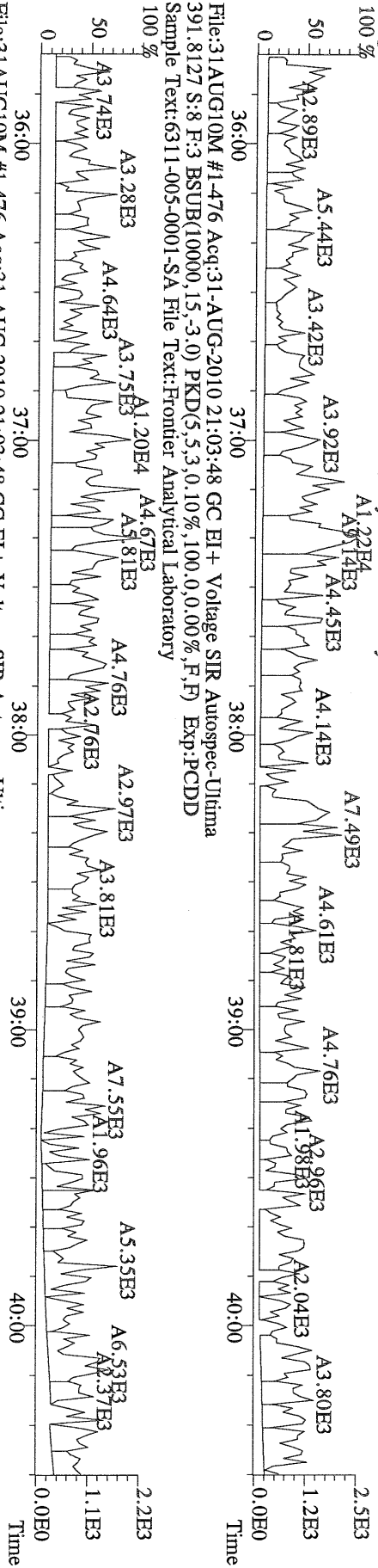


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 366.9792 S:8 F:2 Exp:PCDD  
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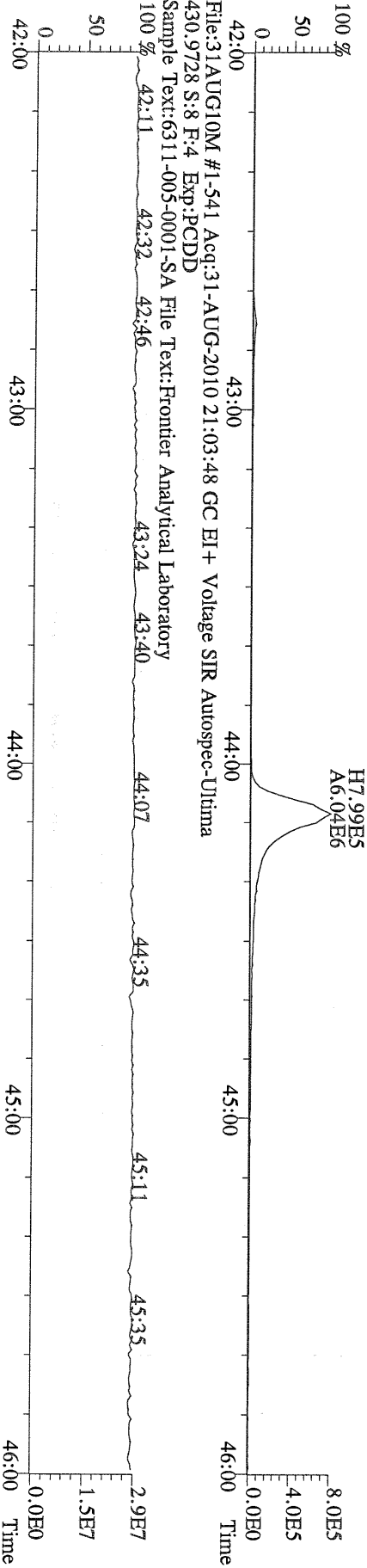
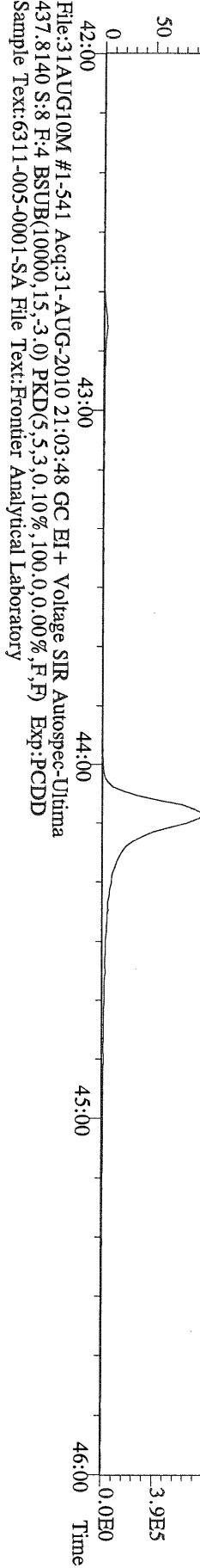
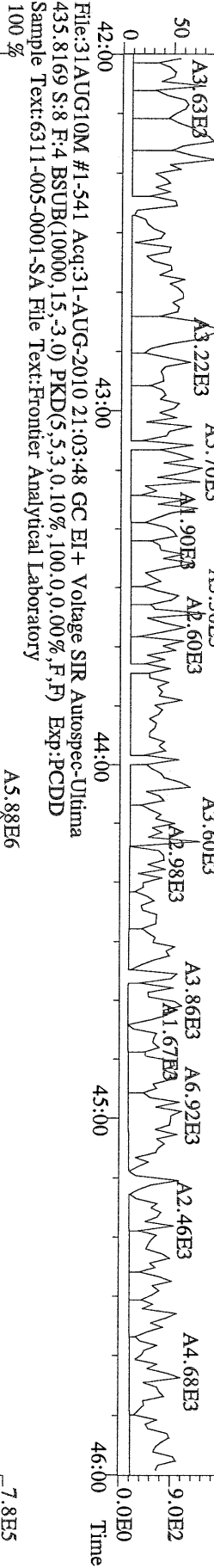
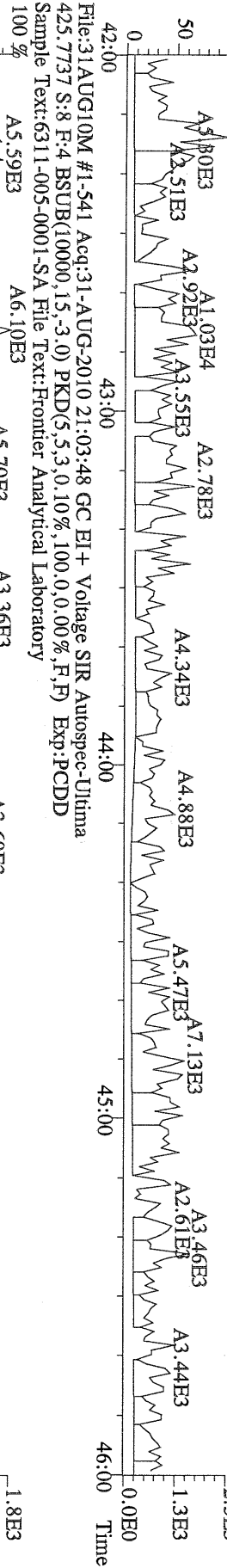




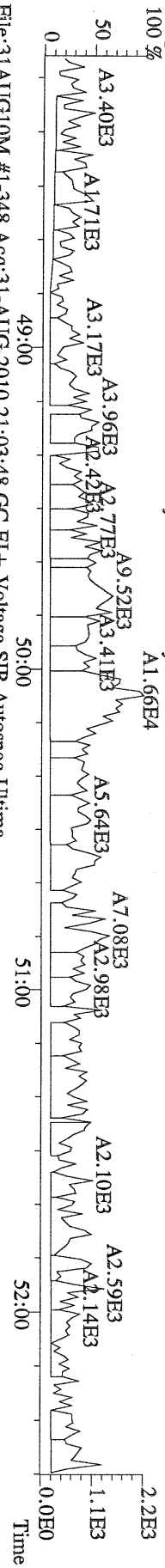
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 389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



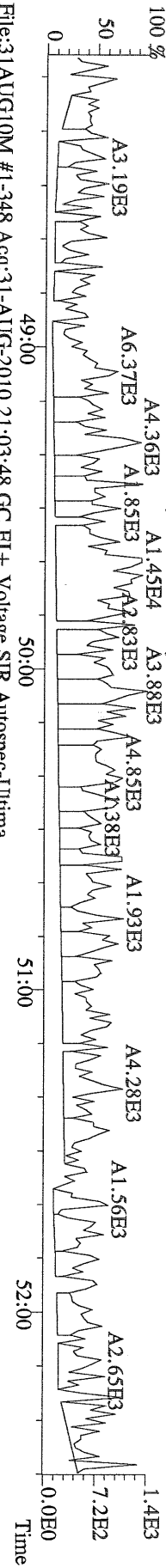
File:31AUG10M #1-541 Acq:31-AUG-2010 21:03:48 GC EI + Voltage SIR Autospec-Utima  
423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD  
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100 % A1.29E4



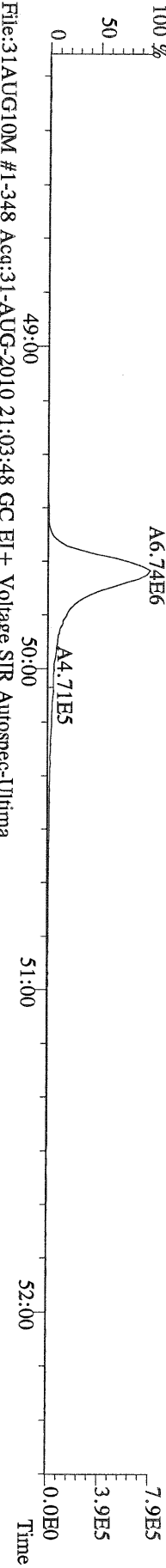
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 457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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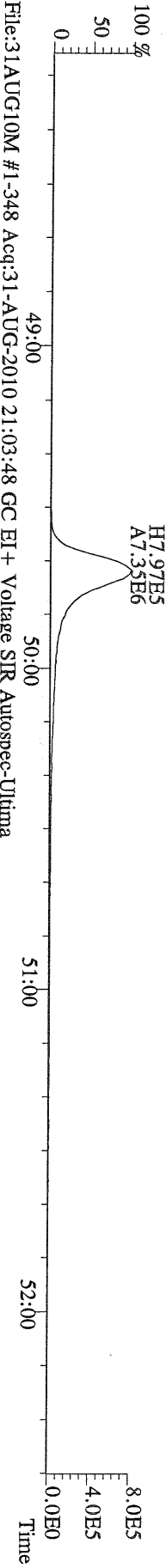
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 459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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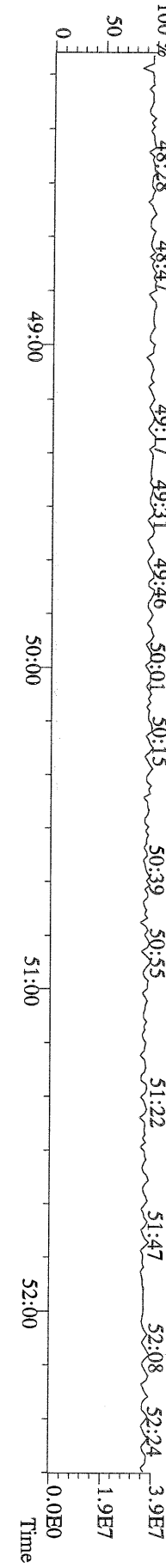
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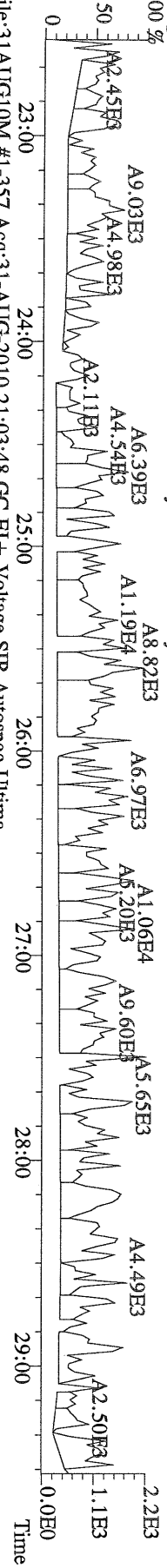
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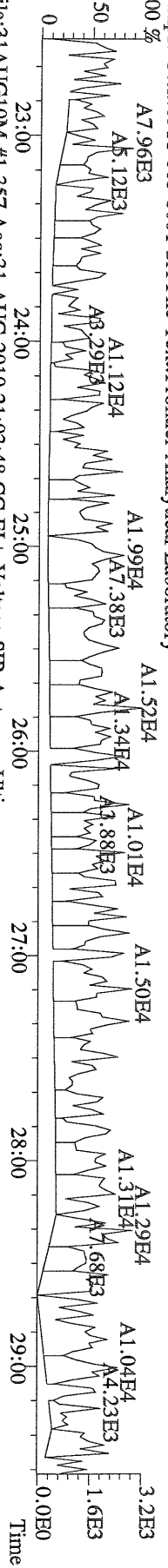
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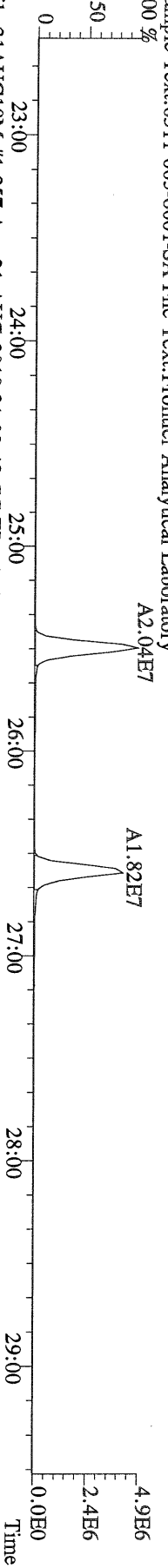
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303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



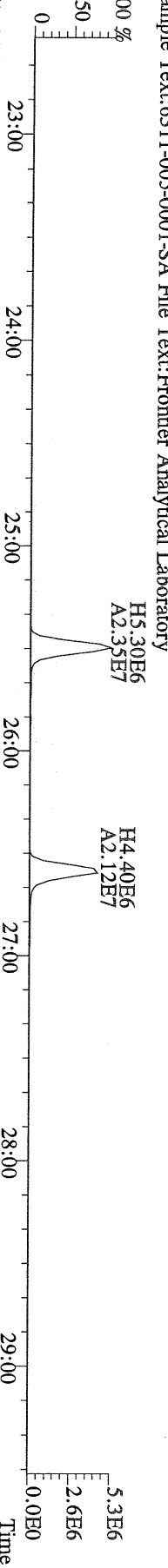
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305.8987 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



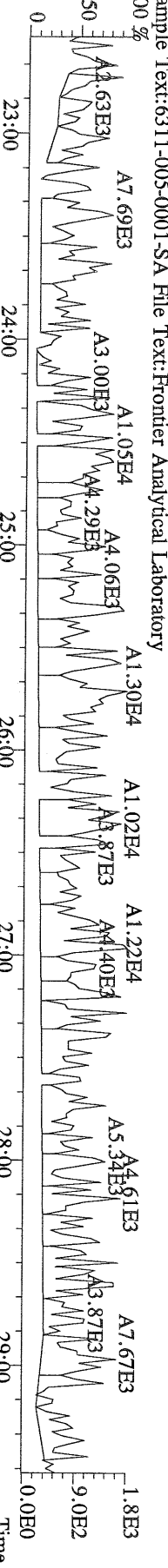
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315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
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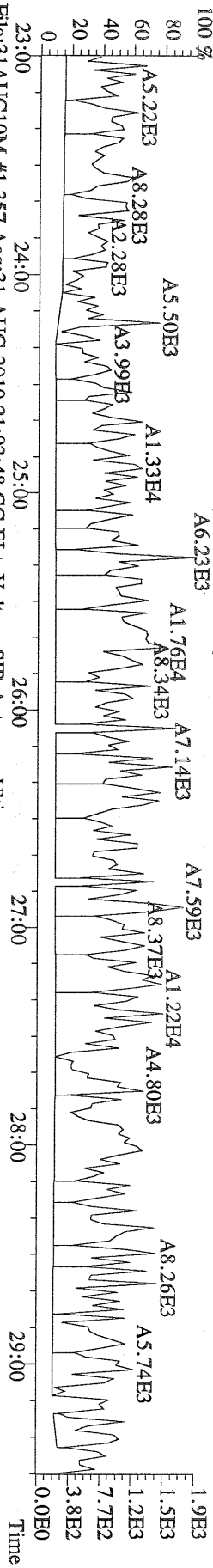
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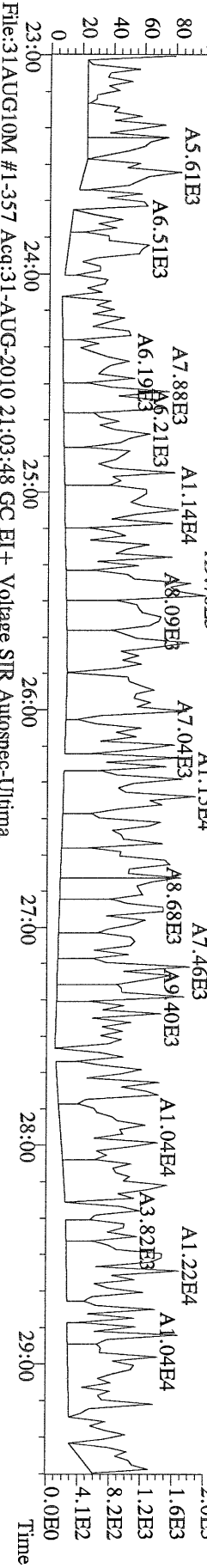
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375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
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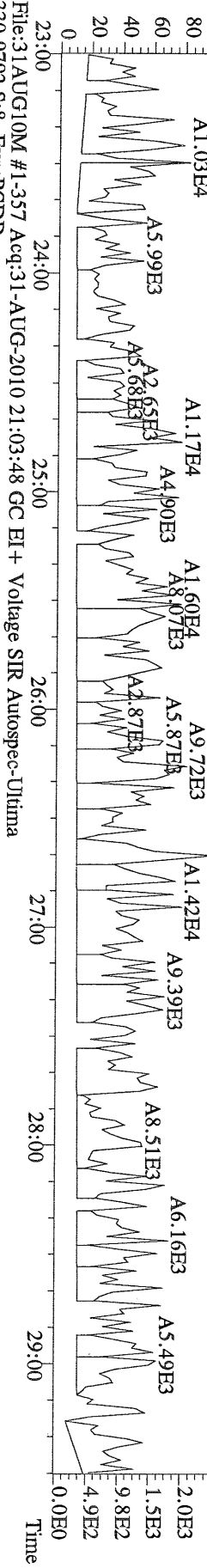
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 339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



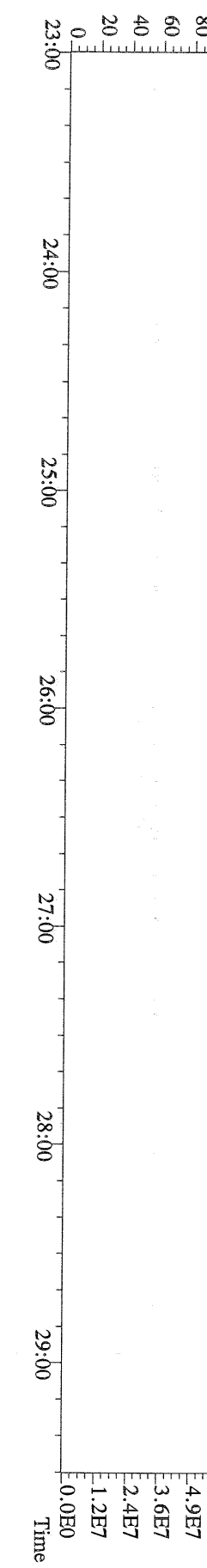
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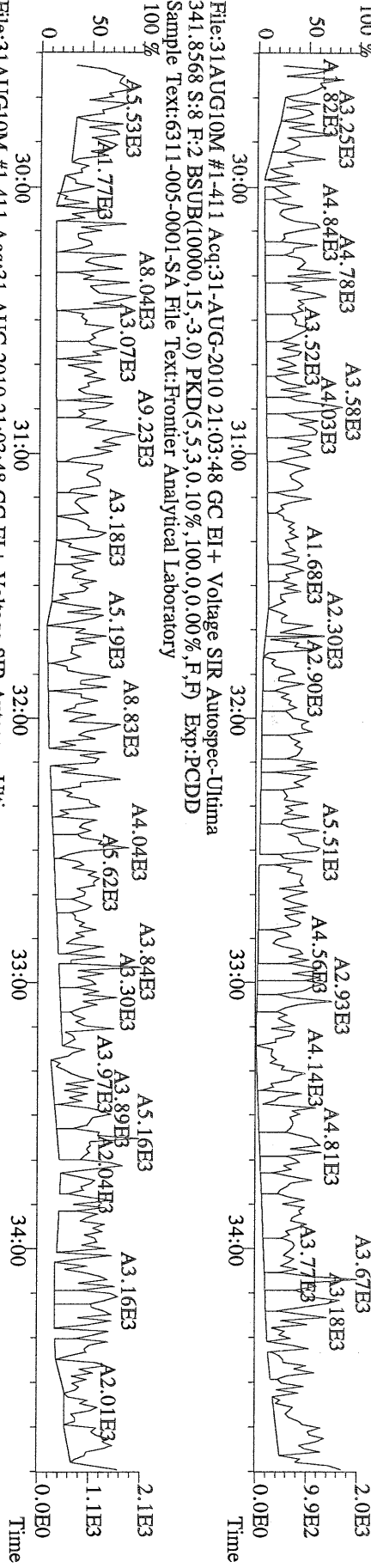
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 409.7974 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



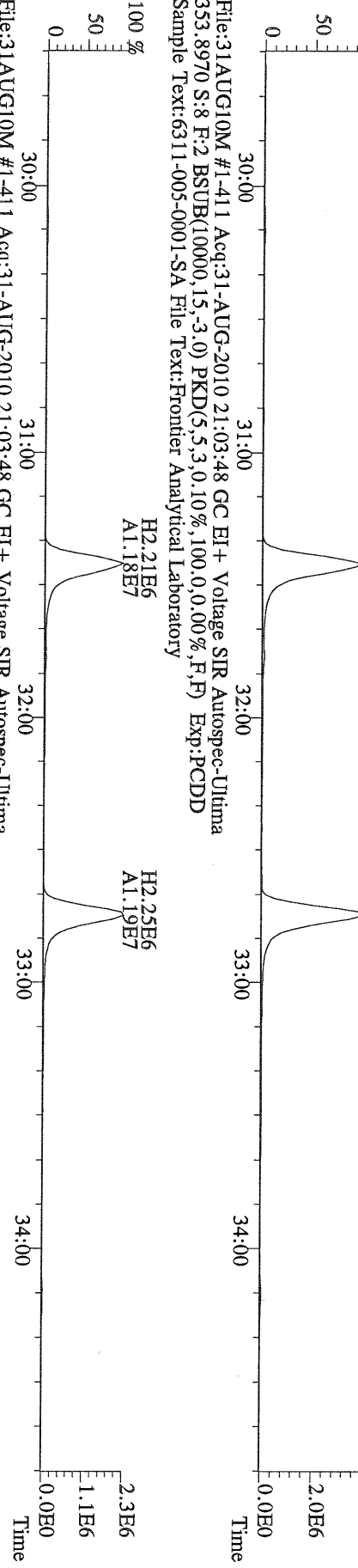
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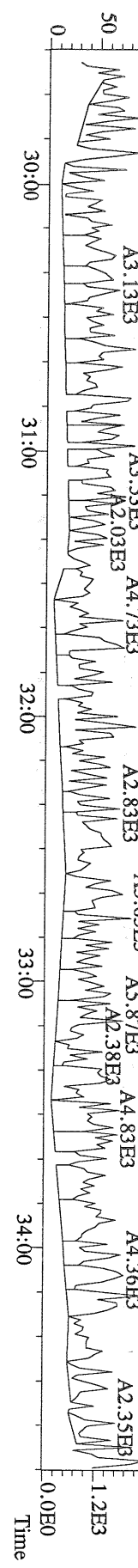
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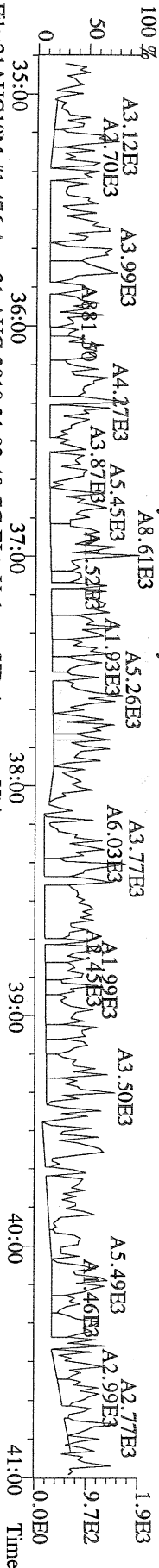
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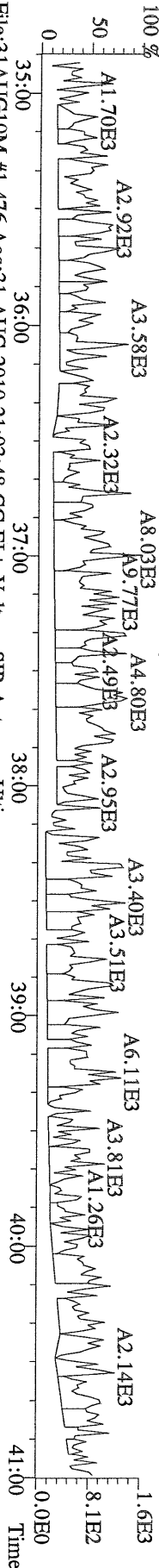
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Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



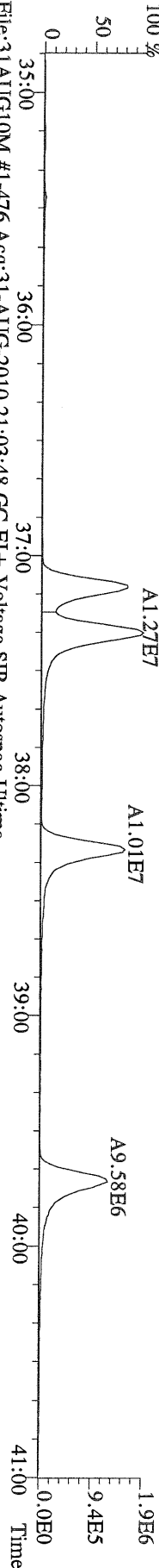
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 373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
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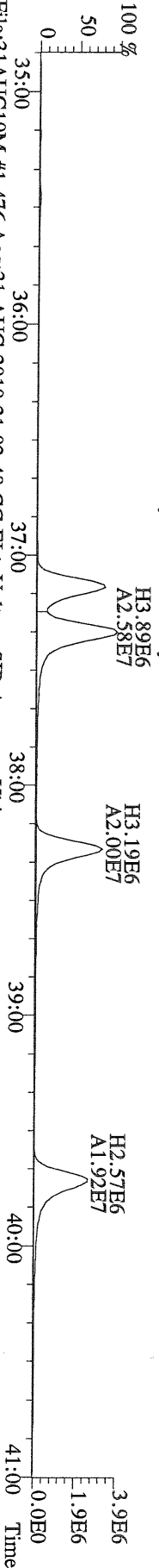
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 375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
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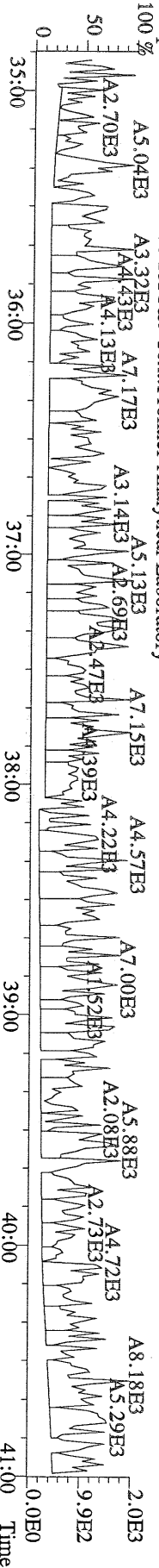
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 383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD  
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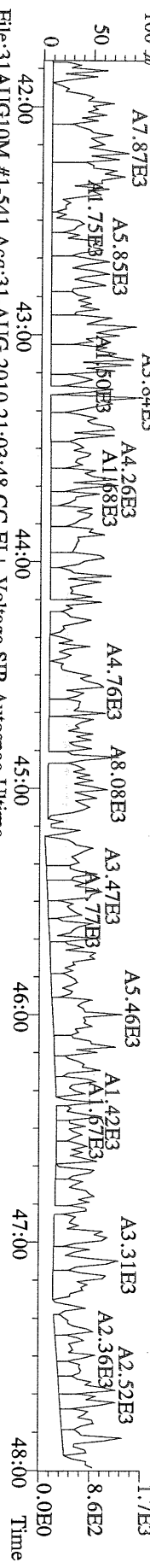
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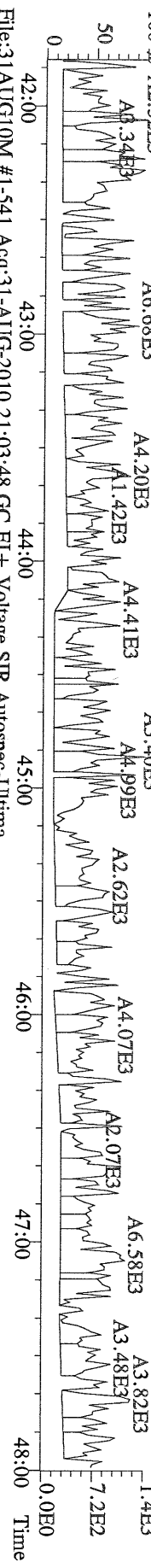
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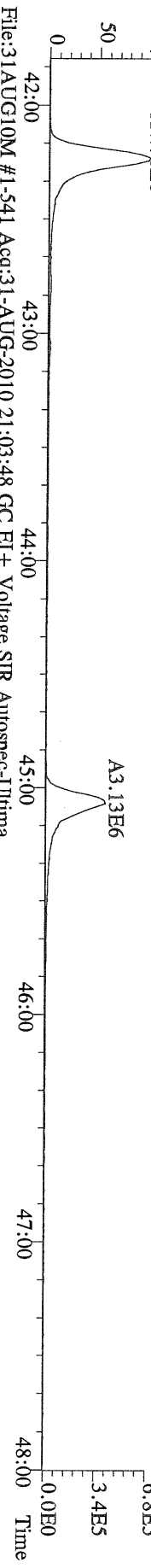
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 407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



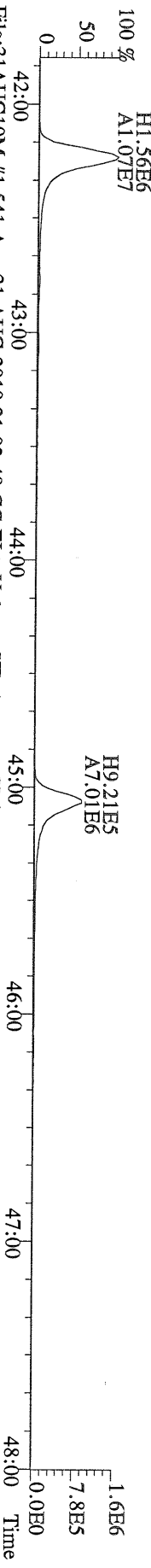
File:31AUG10M #1-541 Acq:31-AUG-2010 21:03:48 GC EI + Voltage SIR Autospec-Utima  
 409.7788 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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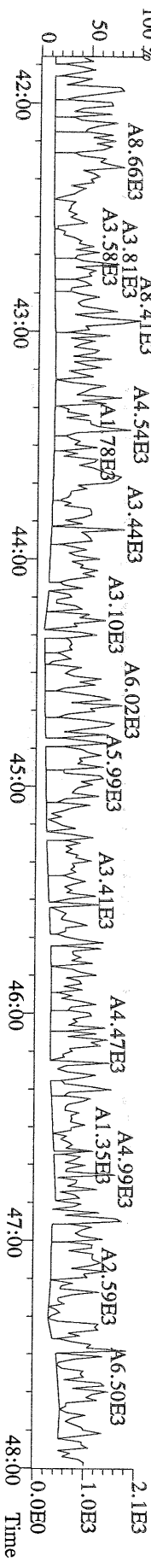
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 Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-541 Acq:31-AUG-2010 21:03:48 GC EI + Voltage SIR Autospec-Utima  
 419.8220 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory

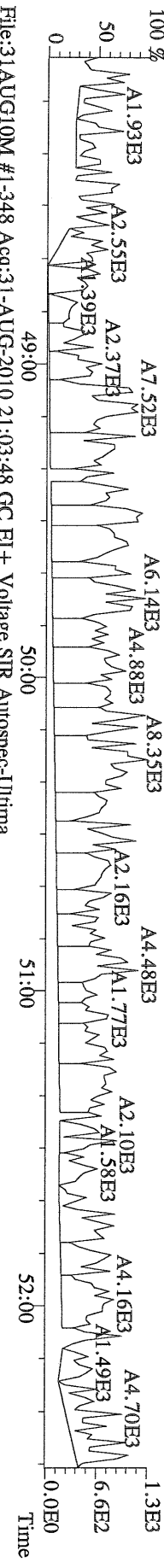


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 479.7165 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory

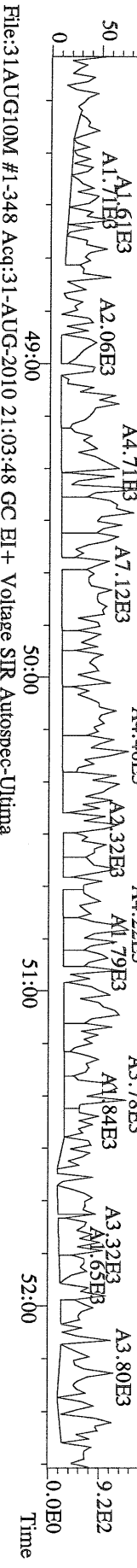




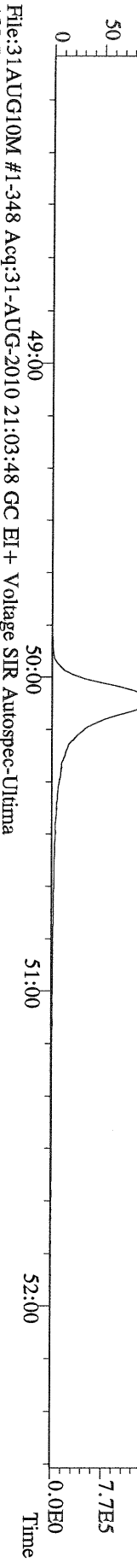
File:31AUG10M #1-348 Acq:31-AUG-2010 21:03:48 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



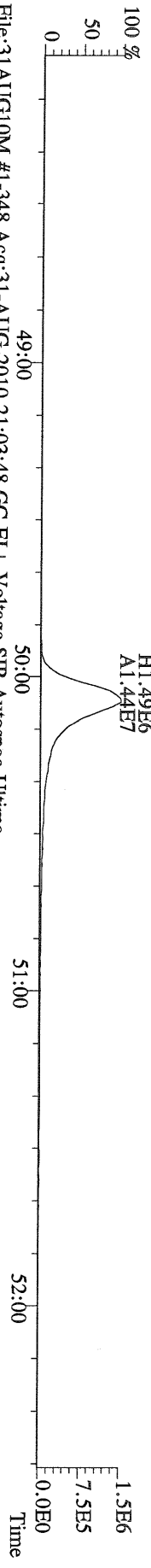
File:31AUG10M #1-348 Acq:31-AUG-2010 21:03:48 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



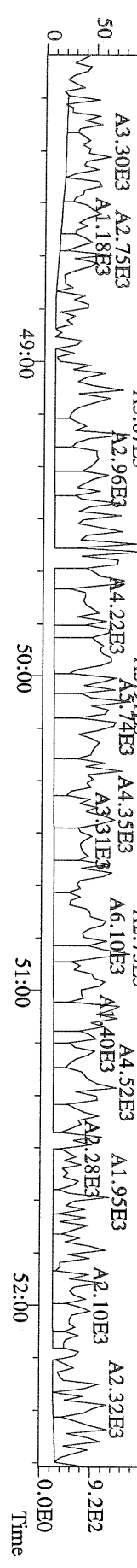
File:31AUG10M #1-348 Acq:31-AUG-2010 21:03:48 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 21:03:48 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-005-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 21:03:48 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-005-0001-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	695	640	1.49	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	796	657	2.20	0
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	814	618	2.52	0
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	814	618	3.09	0
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	814	618	2.82	0
1,2,3,4,6,7,8-HpCDD	4.65e+04	1.05 y	44:10	1.45	7.05	J	2.50	-	-	*	2
OCDD	8.67e+04	1.00 y	49:43	1.43	24.3	J	2.50	-	-	*	2
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	788	1010	0.823	0
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	614	711	1.36	0
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	614	711	1.39	0
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	701	613	1.75	0
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	701	613	1.71	0
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	701	613	1.83	0
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	701	613	2.15	0
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	637	534	2.41	0
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	637	534	4.76	0
OCDF	*	* n	NotFnd	0.79	*		2.50	673	631	8.36	0
Rec											
13C-2,3,7,8-TCDD	1.96e+07	0.83 y	27:20	1.02	1510						73.8
13C-1,2,3,7,8-PeCDD	1.77e+07	1.75 y	33:10	0.84	1660						81.2
13C-1,2,3,4,7,8-HxCDD	1.18e+07	1.25 y	38:31	1.07	1450						70.8
13C-1,2,3,6,7,8-HxCDD	1.14e+07	1.28 y	38:42	1.01	1470						72.1
13C-1,2,3,4,6,7,8-HpCDD	9.28e+06	0.99 y	44:09	0.86	1420						69.5
13C-OCDD	1.02e+07	0.99 y	49:43	0.55	2440						59.7
13C-2,3,7,8-TCDF	3.29e+07	0.85 y	26:35	0.99	1550						75.7
13C-1,2,3,7,8-PeCDF	2.75e+07	1.76 y	31:25	0.84	1540						75.2
13C-2,3,4,7,8-PeCDF	2.75e+07	1.73 y	32:45	0.81	1580						77.4
13C-1,2,3,4,7,8-HxCDF	2.29e+07	0.50 y	37:09	1.85	1620						79.5
13C-1,2,3,6,7,8-HxCDF	3.17e+07	0.50 y	37:20	2.54	1640						80.1
13C-2,3,4,6,7,8-HxCDF	2.56e+07	0.50 y	38:17	2.01	1670						81.7
13C-1,2,3,7,8,9-HxCDF	2.42e+07	0.50 y	39:43	2.03	1560						76.3
13C-1,2,3,4,6,7,8-HpCDF	1.20e+07	0.45 y	42:15	1.11	1420						69.6
13C-1,2,3,4,7,8,9-HpCDF	7.10e+06	0.45 y	45:04	0.80	1160						56.6
13C-OCDF	1.90e+07	1.00 y	50:05	1.08	2300						56.3
37Cl-2,3,7,8-TCDD	5.95e+06		27:22	0.69	684						83.8
13C-1,2,3,4-TCDD	2.59e+07	0.85 y	26:46	-	58.9						
13C-1,2,3,4-TCDF	4.37e+07	0.86 y	25:30	-	61.8						
13C-1,2,3,7,8,9-HxCDD	1.56e+07	1.21 y	39:09	-	57.7						
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	695	640	1.49	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	796	657	2.20	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	814	618	3.09	0
Total Hepta-Dioxins	9.52e+04		42:47	1.45	14.4	J	2.50	-	-	*	2
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	788	1010	0.823	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	614	711	1.39	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	614	711	1.39	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	701	613	2.15	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	637	534	4.76	0

Analyst:  Date: 9/1/10

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 16

File: 31AUG10M

S: 9 I: 1 F: 4

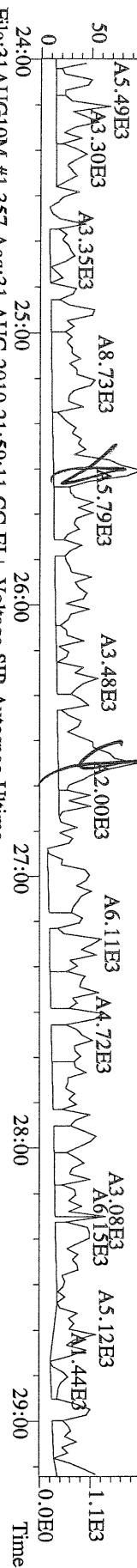
Acquired: 31-AUG-10 21:59:11

Total Concentration: 14.4

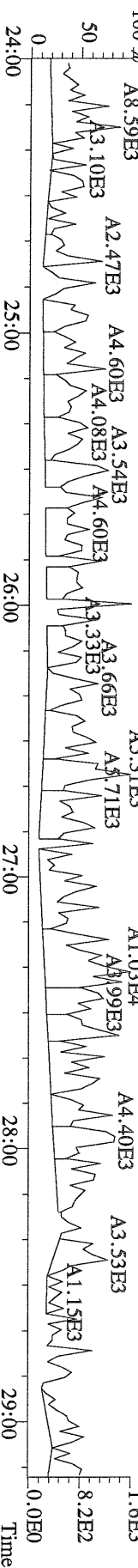
Unnamed Concentration: 7.378

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:47	2.60e+04	2.26e+04	1.15 y	4.87e+04	7.38	
44:10	2.38e+04	2.27e+04	1.05 y	4.65e+04	7.05	1,2,3,4,6,7,8-HpCDD

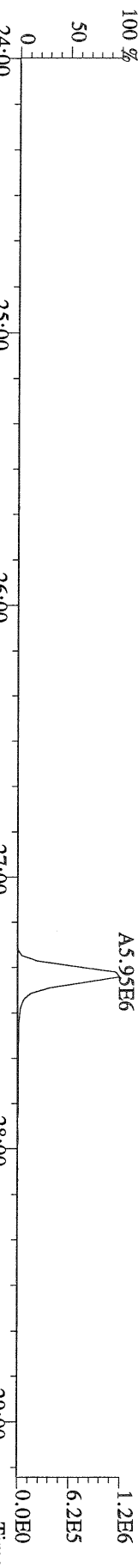
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



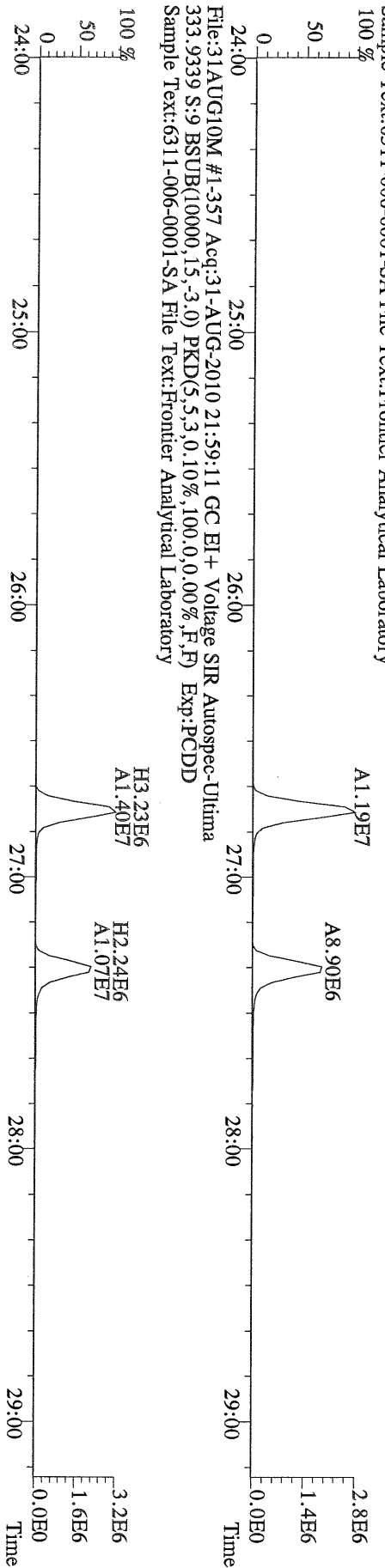
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 327.8847 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



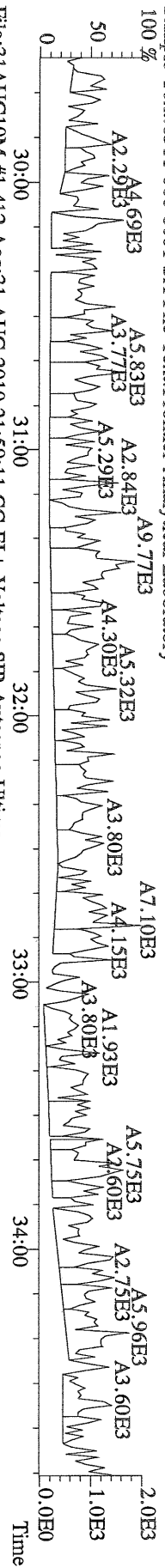
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 331.9368 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



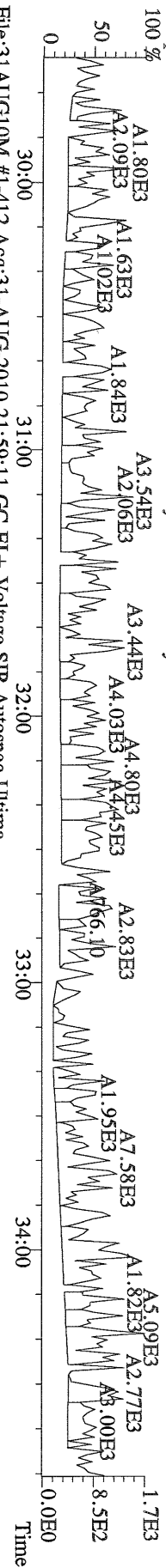
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 333.9339 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



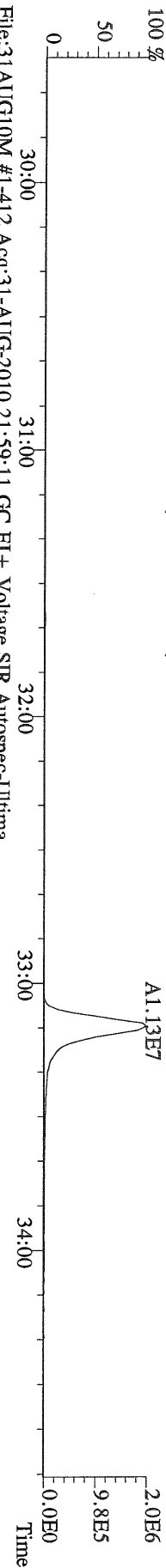
File:31AUG10M #1-412 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-006-0001-SA File Text:Frontier Analytical Laboratory



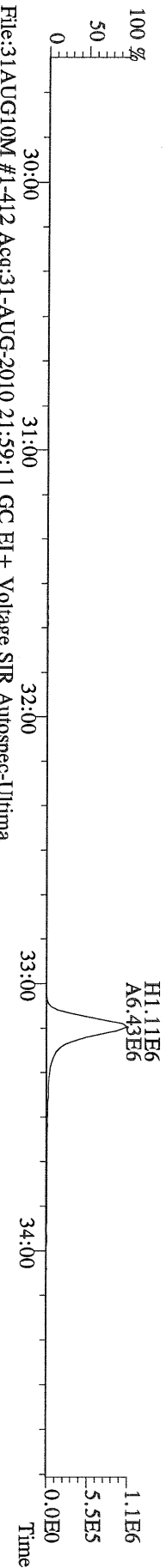
File:31AUG10M #1-412 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 357.8517 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-006-0001-SA File Text:Frontier Analytical Laboratory



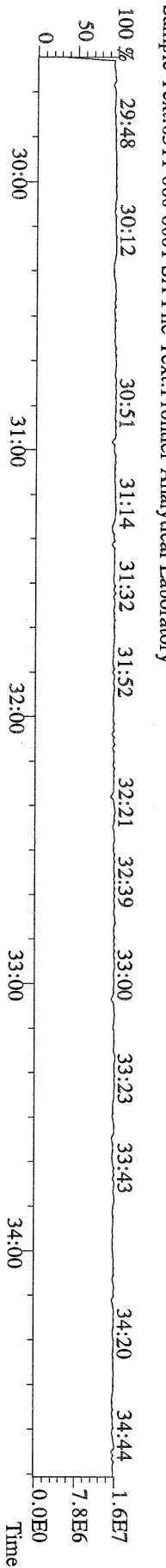
File:31AUG10M #1-412 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 367.8949 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-006-0001-SA File Text:Frontier Analytical Laboratory



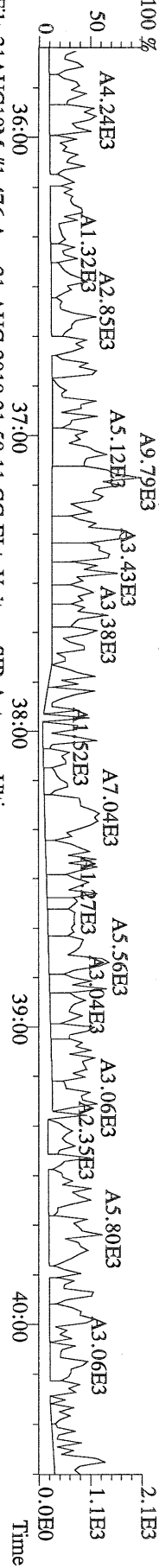
File:31AUG10M #1-412 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 369.8919 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-006-0001-SA File Text:Frontier Analytical Laboratory



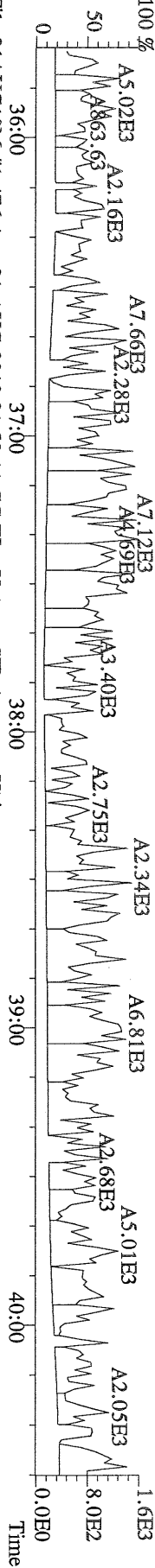
File:31AUG10M #1-412 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 366.9792 S:9 F:2 Exp:PCDD  
 Sample Text:63111-006-0001-SA File Text:Frontier Analytical Laboratory



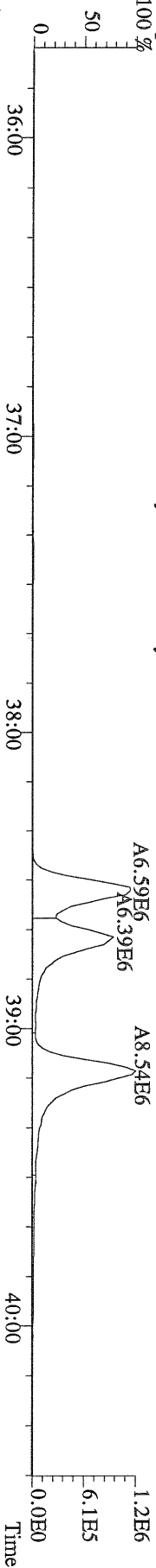
File:31AUG10M #1-476 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory  
 100 % A9.79E3



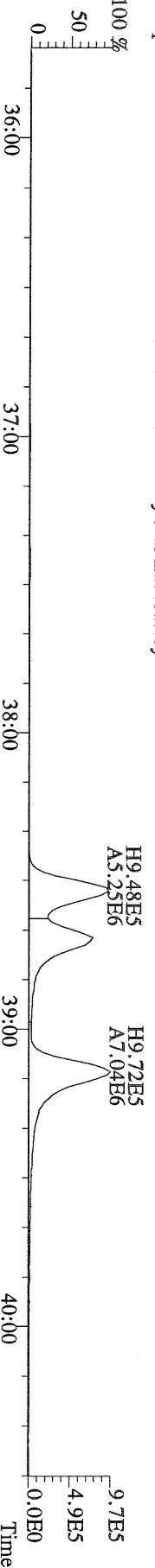
File:31AUG10M #1-476 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 391.8127 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



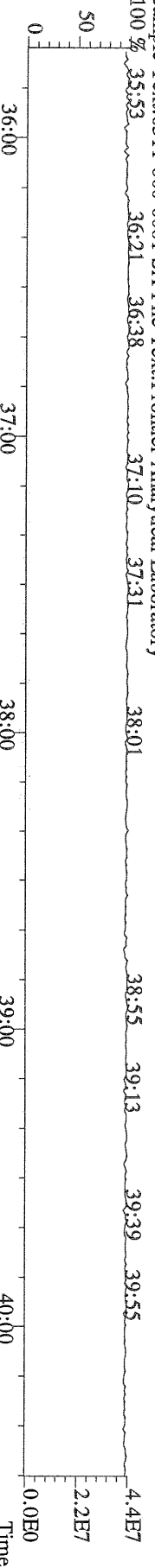
File:31AUG10M #1-476 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 401.8559 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



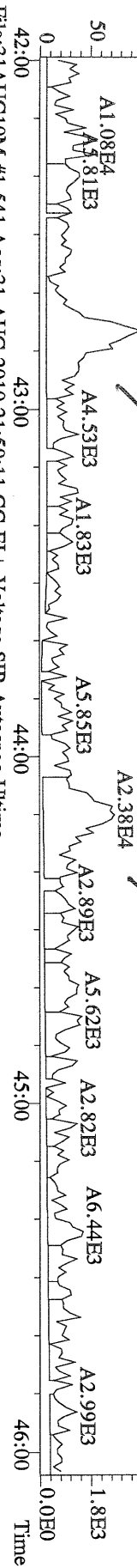
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 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



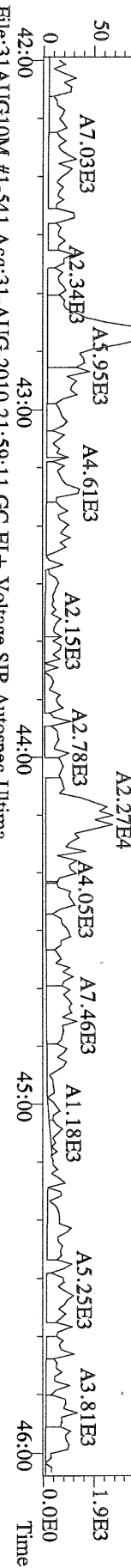
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 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



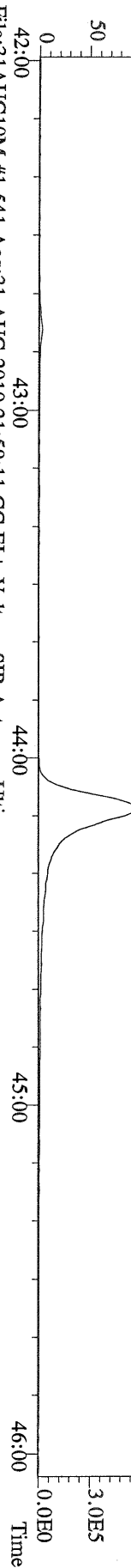
File:31AUG10M #1-541 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



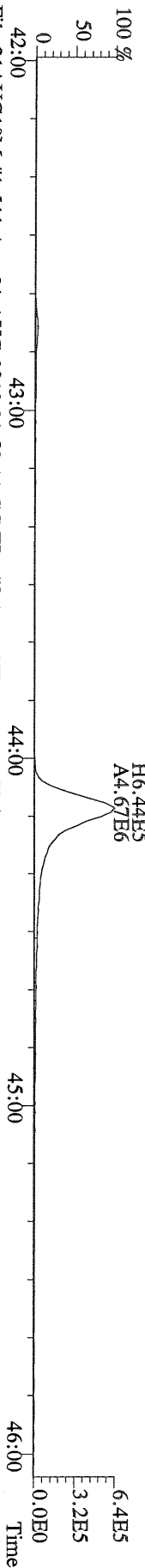
File:31AUG10M #1-541 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



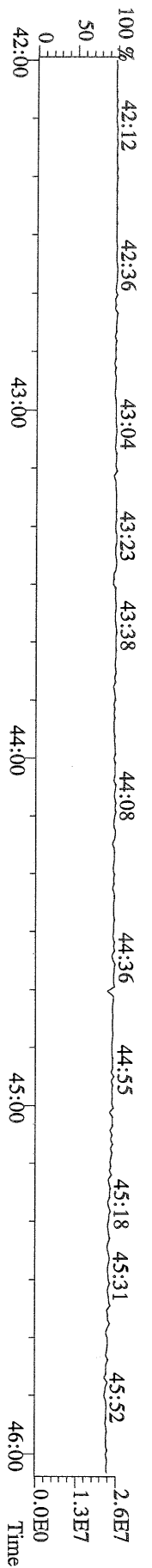
File:31AUG10M #1-541 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
435.8169 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



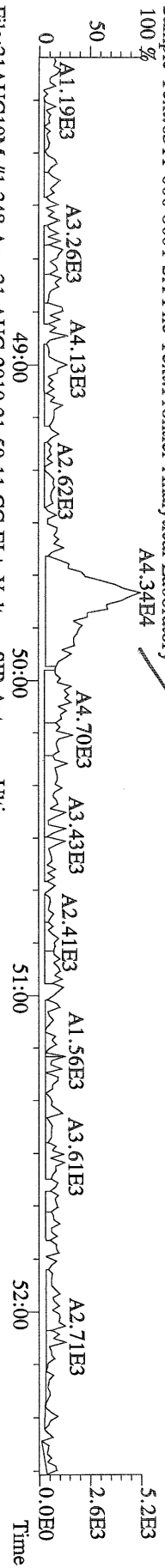
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437.8140 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



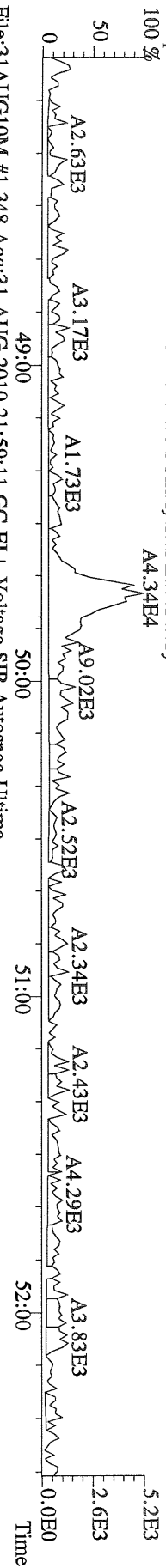
File:31AUG10M #1-541 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:9 F:4 Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



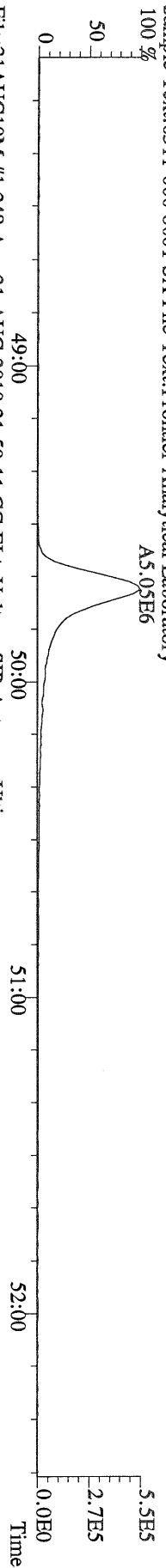
File:31AUG10M #1-348 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



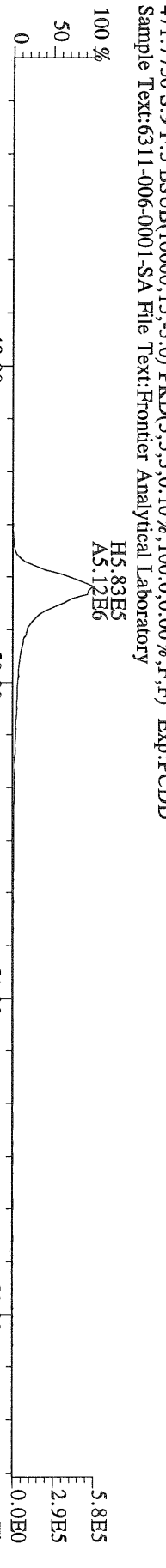
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459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



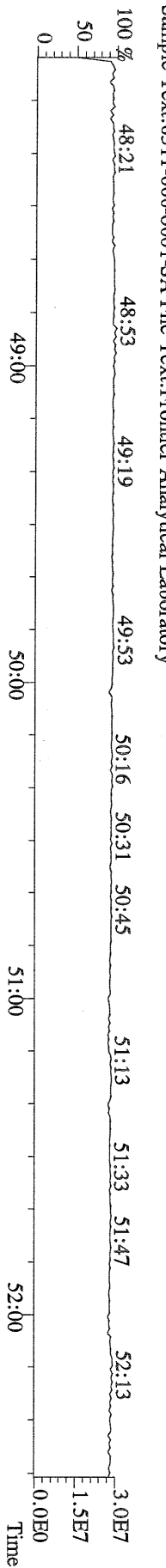
File:31AUG10M #1-348 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
469.7780 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 21:59:11 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:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory

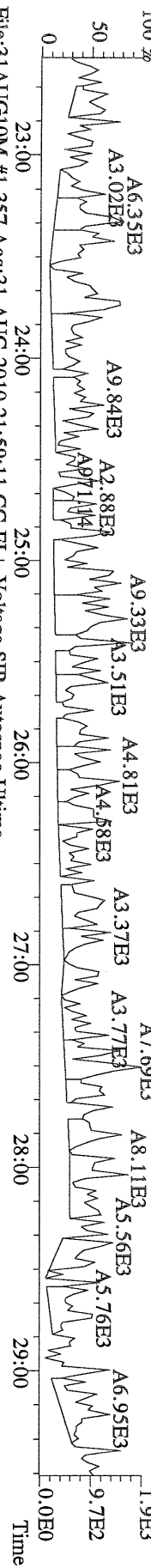


File:31AUG10M #1-348 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
454.9728 S:9 F:5 Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory

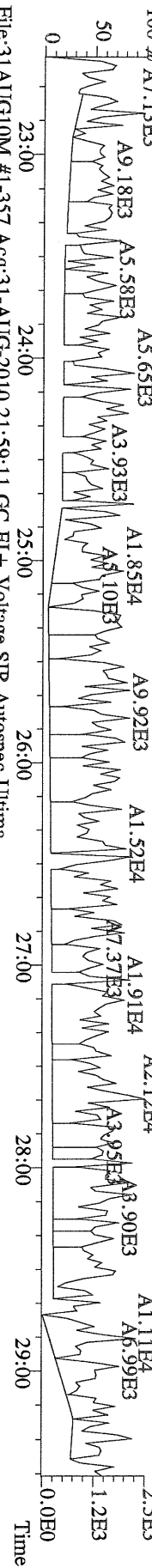




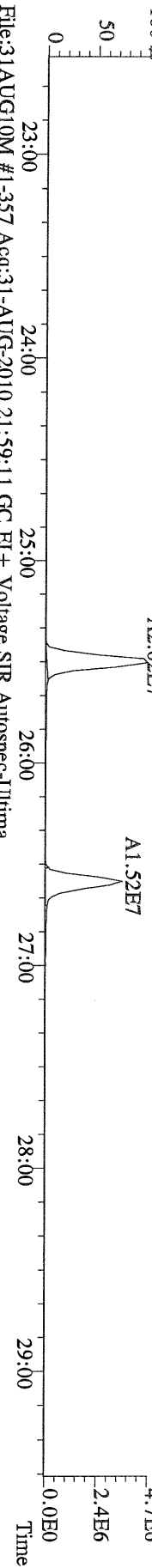
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
303.9016 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



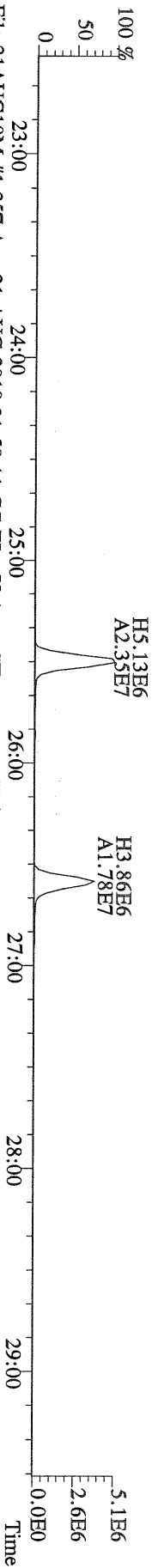
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



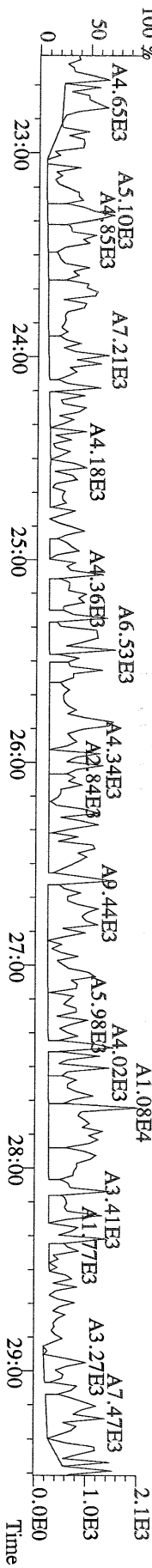
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
315.9419 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



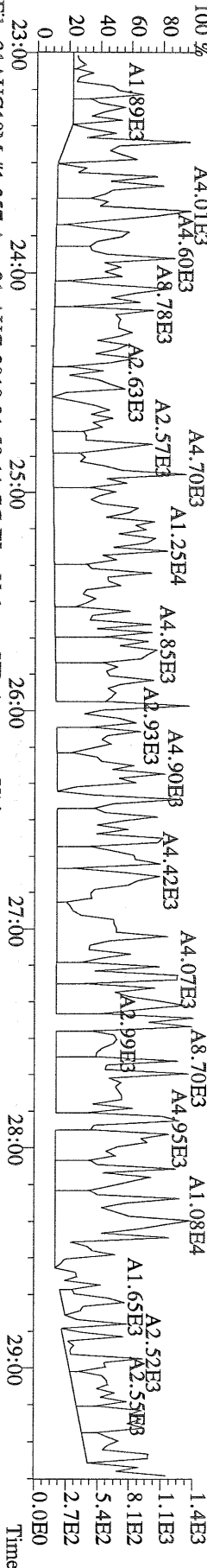
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317.9389 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



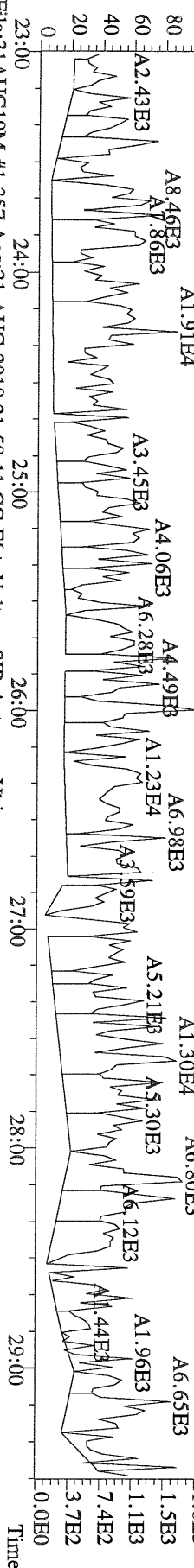
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
375.8364 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



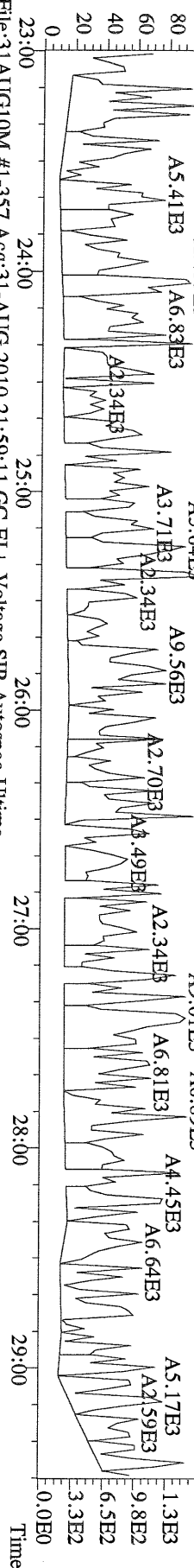
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI + Voltage SIR Autospec-Utima  
 339.8597 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



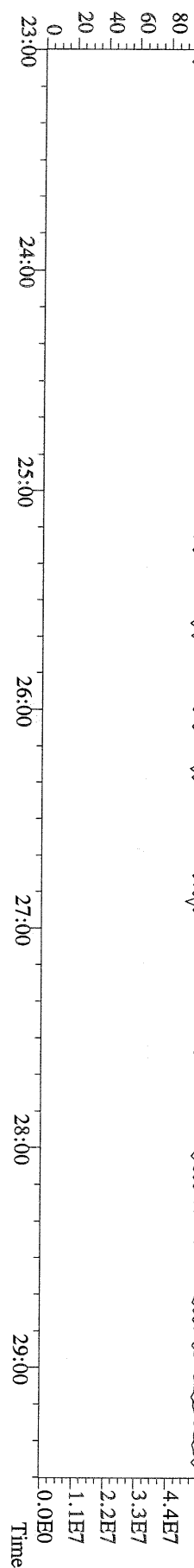
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI + Voltage SIR Autospec-Utima  
 341.8568 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



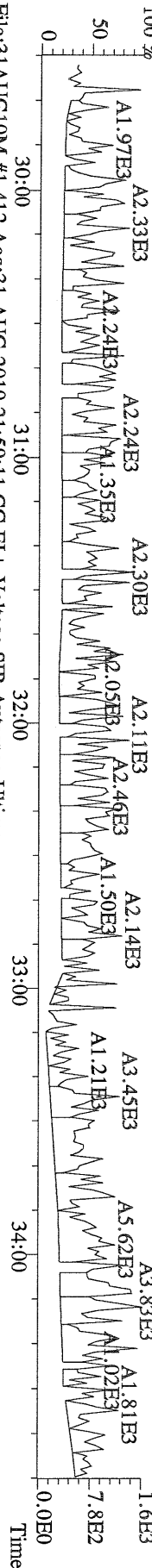
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI + Voltage SIR Autospec-Utima  
 409.7974 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



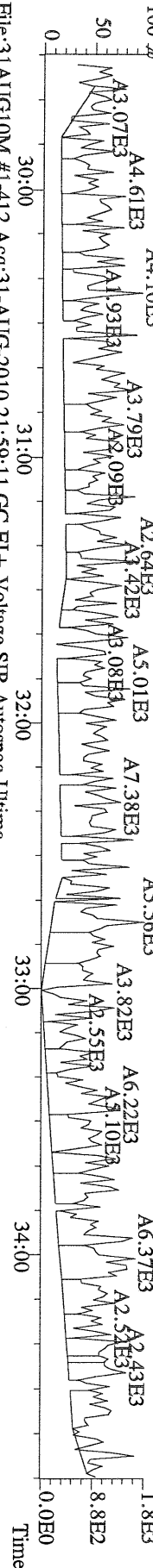
File:31AUG10M #1-357 Acq:31-AUG-2010 21:59:11 GC EI + Voltage SIR Autospec-Utima  
 330.9792 S:9 Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



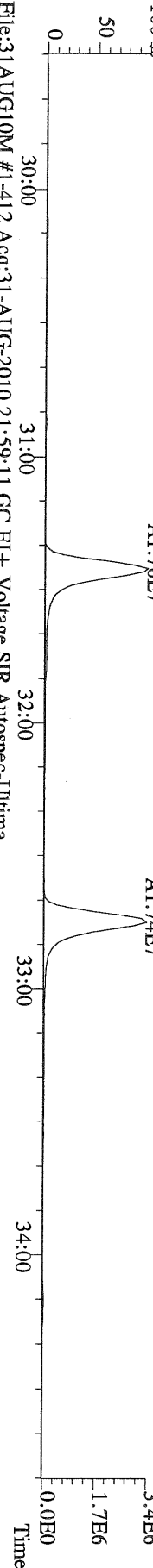
File:31AUG10M #1-412 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Utima  
 339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



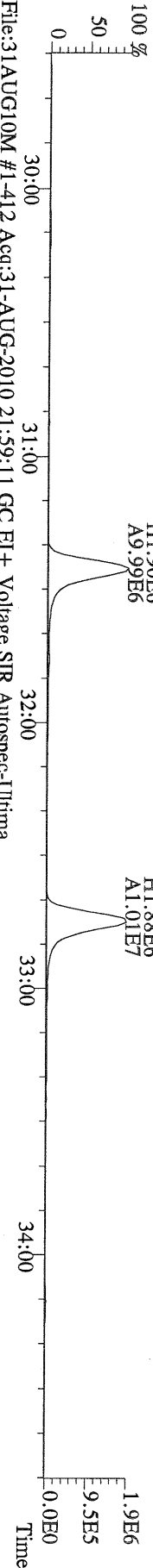
File:31AUG10M #1-412 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Utima  
 341.8568 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



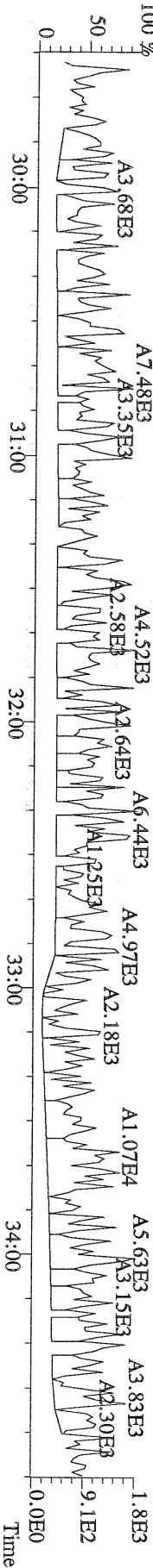
File:31AUG10M #1-412 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Utima  
 351.9000 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



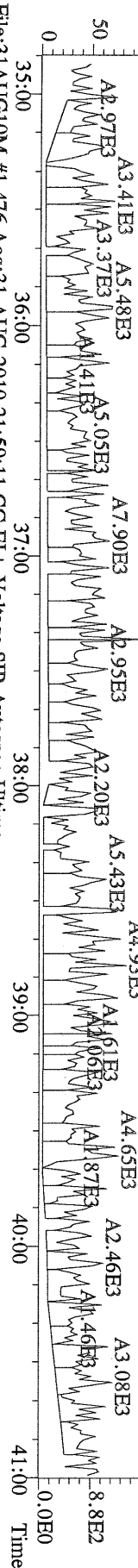
File:31AUG10M #1-412 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Utima  
 353.8970 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



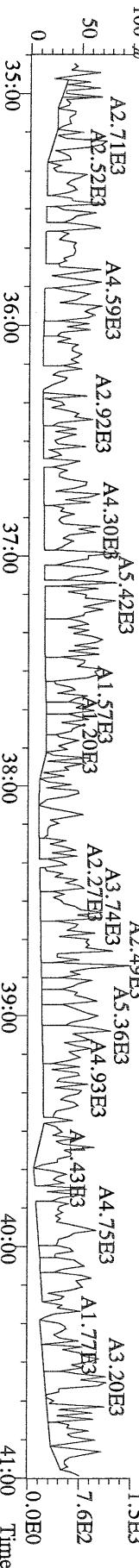
File:31AUG10M #1-412 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Utima  
 409.7974 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



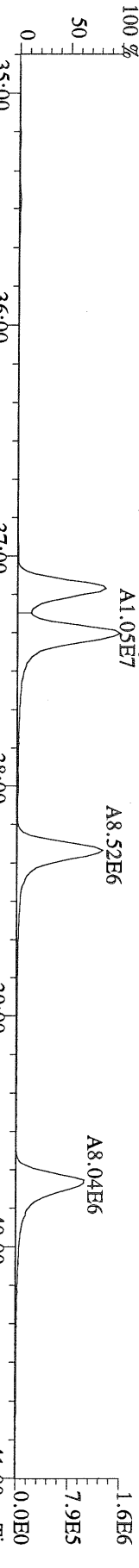
File:31AUG10M #1-476 Acq:31-AUG-2010 21:59:11 GC EI + Voltage SIR Autospec-Utima  
 373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



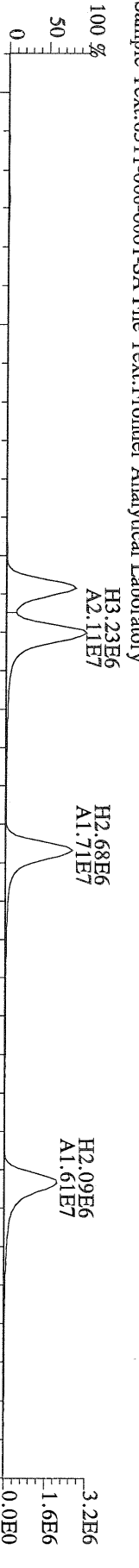
File:31AUG10M #1-476 Acq:31-AUG-2010 21:59:11 GC EI + Voltage SIR Autospec-Utima  
 375.8178 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



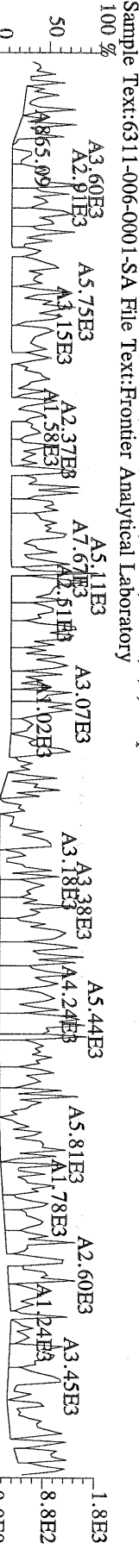
File:31AUG10M #1-476 Acq:31-AUG-2010 21:59:11 GC EI + Voltage SIR Autospec-Utima  
 383.8639 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



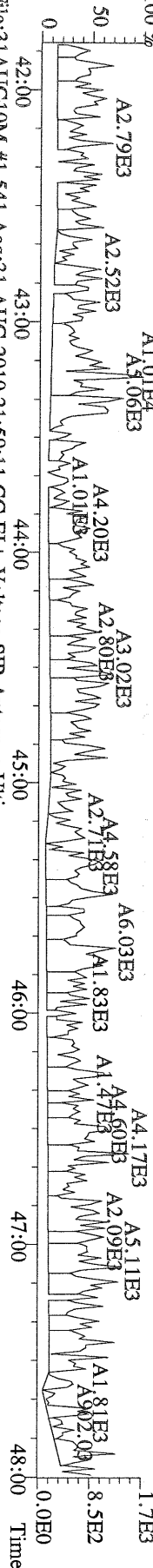
File:31AUG10M #1-476 Acq:31-AUG-2010 21:59:11 GC EI + Voltage SIR Autospec-Utima  
 385.8610 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



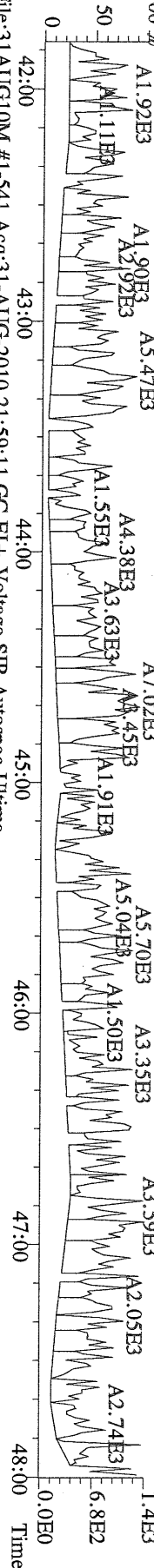
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 445.7555 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



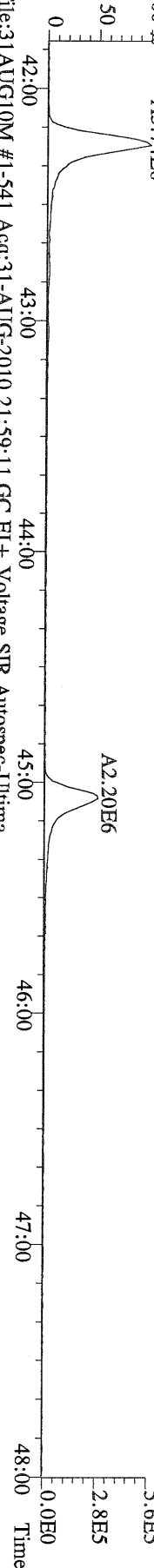
File:31AUG10M #1-541 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



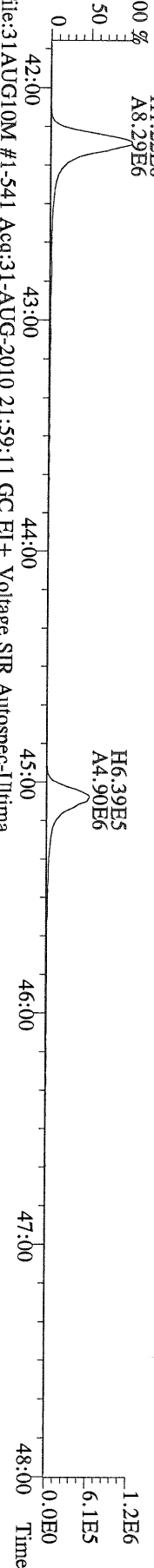
File:31AUG10M #1-541 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
409.7788 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



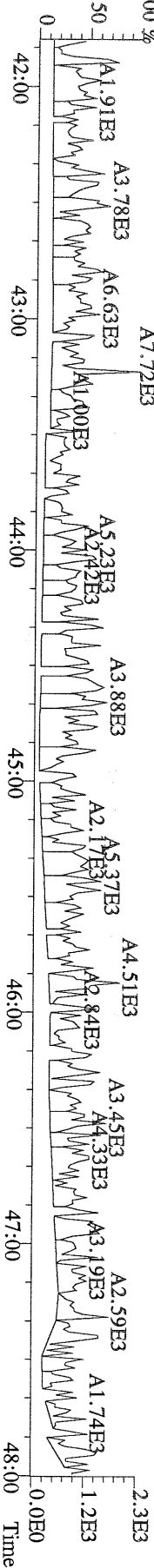
File:31AUG10M #1-541 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



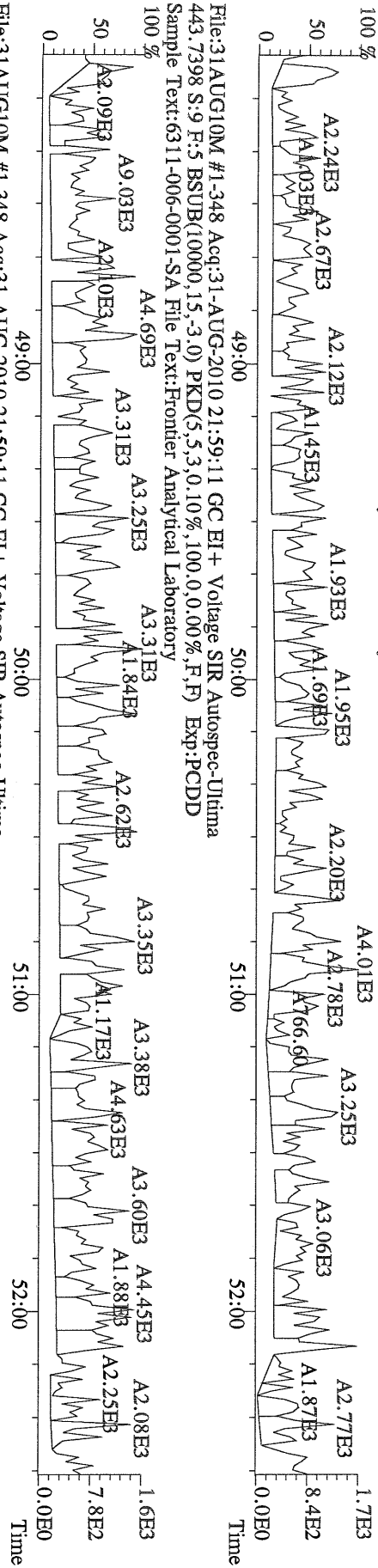
File:31AUG10M #1-541 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
419.8220 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



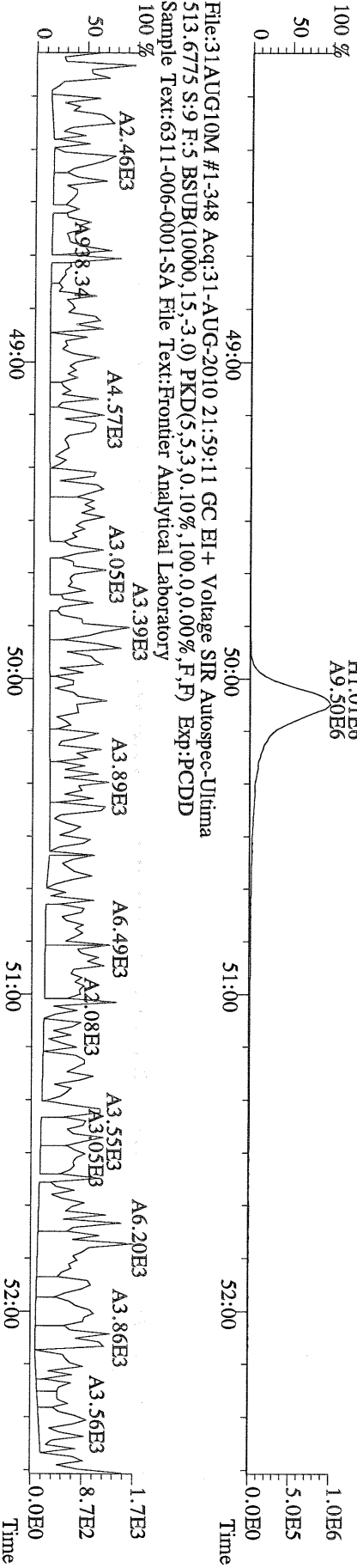
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479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



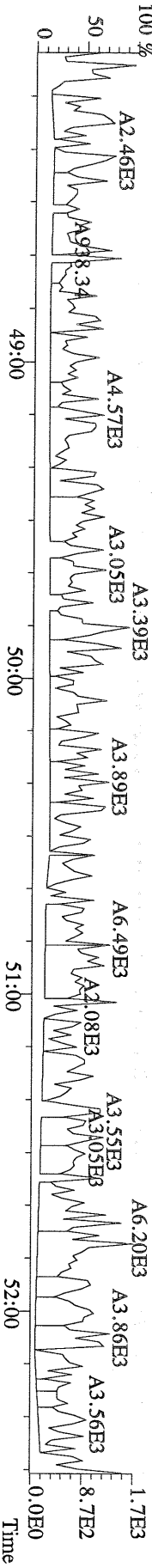
File:31AUG10M #1-348 Acq:31-AUG-2010 21:59:11 GC EI+ Voltage SIR Autospec-Ultima  
 441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 21:59:11 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:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 21:59:11 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:PCDD  
 Sample Text:6311-006-0001-SA File Text:Frontier Analytical Laboratory

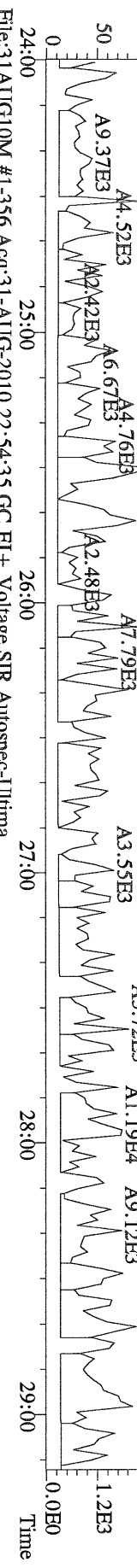


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	823	919	3.05	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	944	914	4.96	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	832	765	5.03	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	832	765	6.01	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	832	765	5.60	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	801	687	8.01	
OCDD	*	* n	NotFnd	1.43	*		2.50	621	474	14.4	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	1110	1180	1.72	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	895	970	3.39	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	895	970	3.55	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	804	732	3.56	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	804	732	3.43	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	804	732	3.80	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	804	732	4.48	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	550	611	4.24	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	550	611	9.24	
OCDF	*	* n	NotFnd	0.79	*		2.50	518	638	14.3	
13C-2,3,7,8-TCDD	1.25e+07	0.87	y	27:21	1.02	1140				54.0	
13C-1,2,3,7,8-PeCDD	1.10e+07	1.74	y	33:10	0.84	1230				58.0	
13C-1,2,3,4,7,8-HxCDD	6.53e+06	1.26	y	38:33	1.07	1040				49.1	
13C-1,2,3,6,7,8-HxCDD	7.35e+06	1.28	y	38:43	1.01	1240				58.6	
13C-1,2,3,4,6,7,8-HpCDD	5.24e+06	0.98	y	44:09	0.86	1040				49.4	
13C-OCDD	5.01e+06	0.90	y	49:43	0.55	1560				37.0	
13C-2,3,7,8-TCDF	2.14e+07	0.87	y	26:36	0.99	1160				55.0	
13C-1,2,3,7,8-PeCDF	1.71e+07	1.75	y	31:26	0.84	1110				52.4	
13C-2,3,4,7,8-PeCDF	1.69e+07	1.72	y	32:45	0.81	1120				53.2	
13C-1,2,3,4,7,8-HxCDF	1.40e+07	0.49	y	37:09	1.85	1290				61.0	
13C-1,2,3,6,7,8-HxCDF	1.97e+07	0.50	y	37:21	2.54	1320				62.5	
13C-2,3,4,6,7,8-HxCDF	1.51e+07	0.51	y	38:17	2.01	1280				60.4	
13C-1,2,3,7,8,9-HxCDF	1.45e+07	0.49	y	39:44	2.03	1210				57.4	
13C-1,2,3,4,6,7,8-HpCDF	7.34e+06	0.46	y	42:15	1.11	1130				53.4	
13C-1,2,3,4,7,8,9-HpCDF	4.01e+06	0.45	y	45:05	0.80	850				40.3	
13C-OCDF	1.05e+07	1.00	y	50:05	1.08	1650				39.0	
37Cl-2,3,7,8-TCDD	3.60e+06			27:22	0.69	492				58.2	
13C-1,2,3,4-TCDD	2.26e+07	0.85	y	26:45	-	53.0					
13C-1,2,3,4-TCDF	3.91e+07	0.87	y	25:30	-	57.1					
13C-1,2,3,7,8,9-HxCDD	1.24e+07	1.27	y	39:09	-	47.5					
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	823	919	3.05	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	944	914	4.96	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	832	765	6.01	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	801	687	8.01	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	1110	1180	1.72	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	895	970	3.55	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	895	970	3.55	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	804	732	4.48	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	550	611	9.24	0

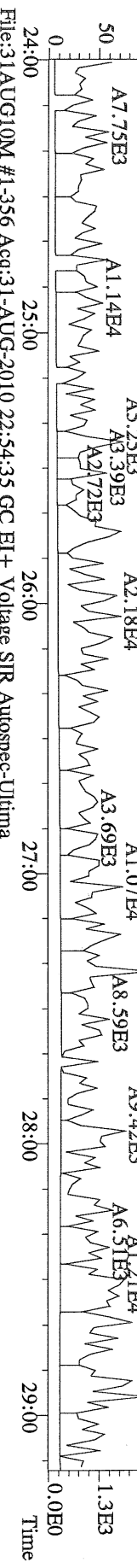
Analyst: 

Date: 9/1/10

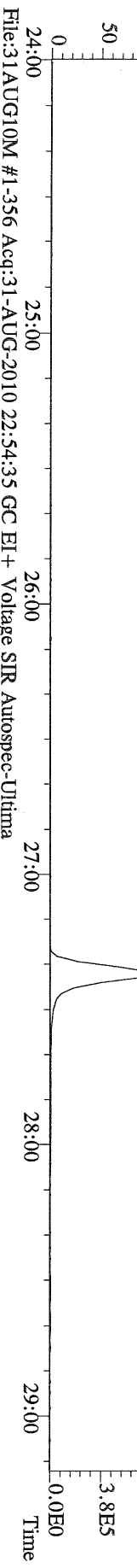
File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Ultima  
 319.8965 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



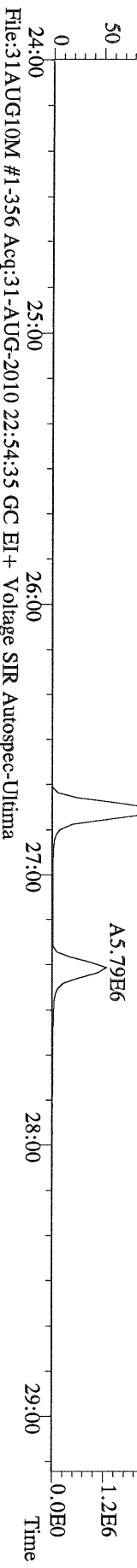
File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Ultima  
 321.8936 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



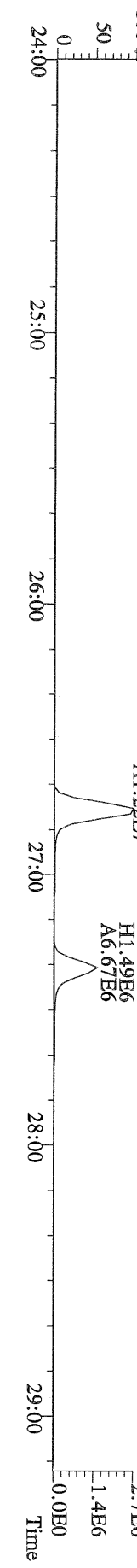
File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Ultima  
 327.8847 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Ultima  
 331.9368 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory

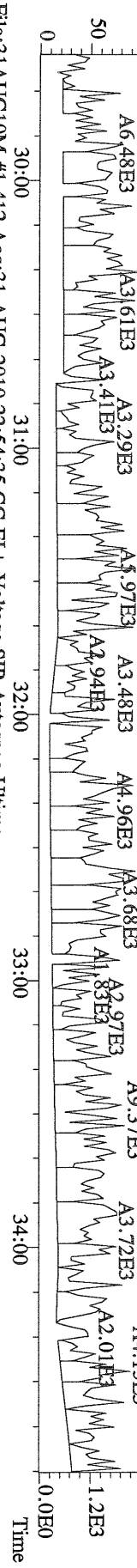


File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Ultima  
 333.9339 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory

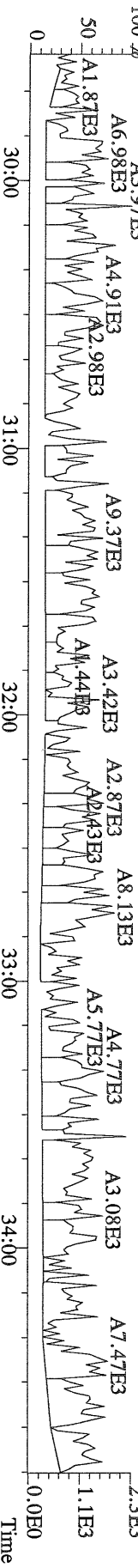




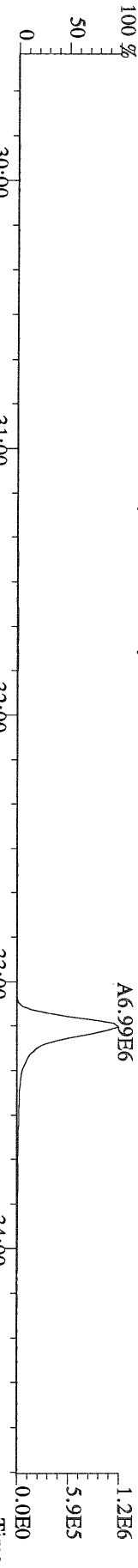
File:31AUG10M #1-412 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-007-0001-SA File Text:Frontier Analytical Laboratory



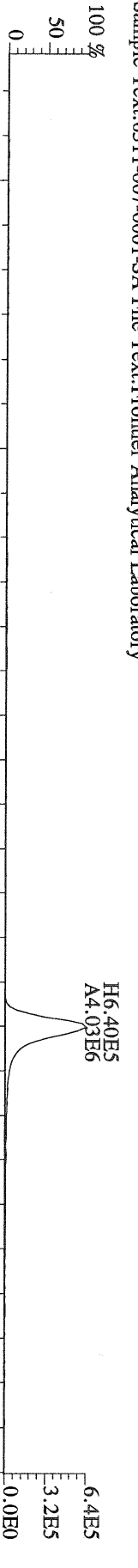
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 357.8517 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-007-0001-SA File Text:Frontier Analytical Laboratory



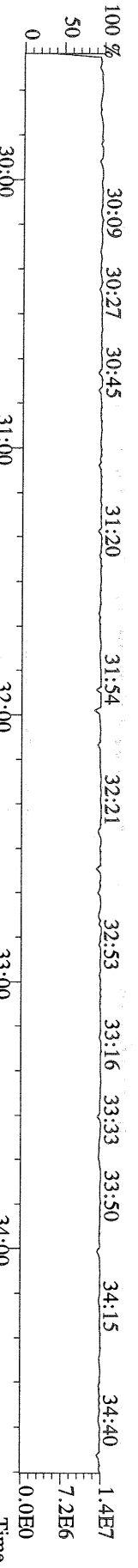
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 367.8949 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-007-0001-SA File Text:Frontier Analytical Laboratory



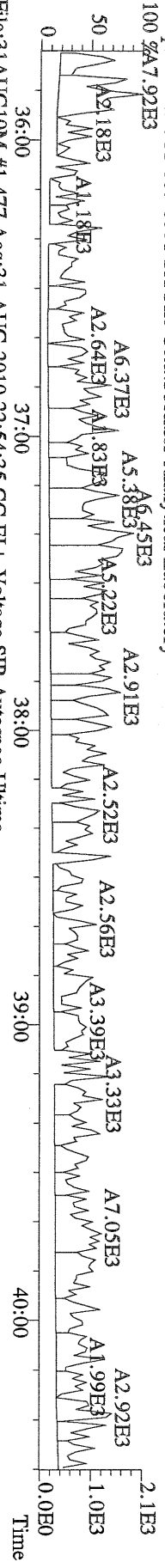
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 369.8919 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-007-0001-SA File Text:Frontier Analytical Laboratory



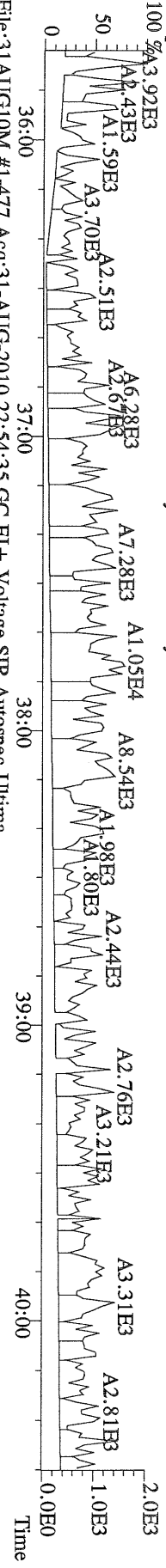
File:31AUG10M #1-412 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
 366.9792 S:10 F:2 Exp:PCDD  
 Sample Text:63111-007-0001-SA File Text:Frontier Analytical Laboratory



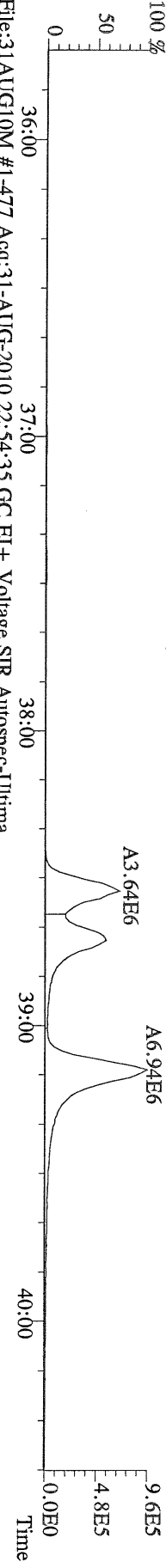
File:31AUG10M #1-477 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
389.8156 S:10 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory  
100 % A7.92E3



File:31AUG10M #1-477 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
391.8127 S:10 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory  
100 % A3.92E3



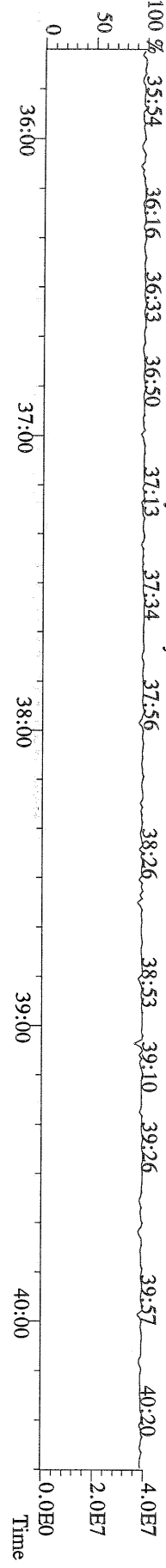
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401.8559 S:10 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory  
100 %



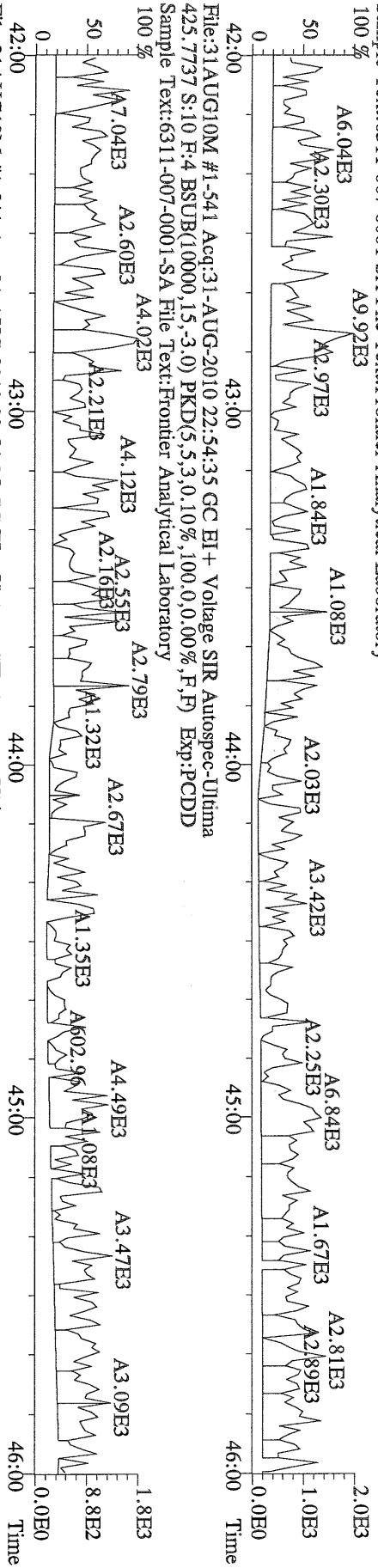
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403.8530 S:10 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



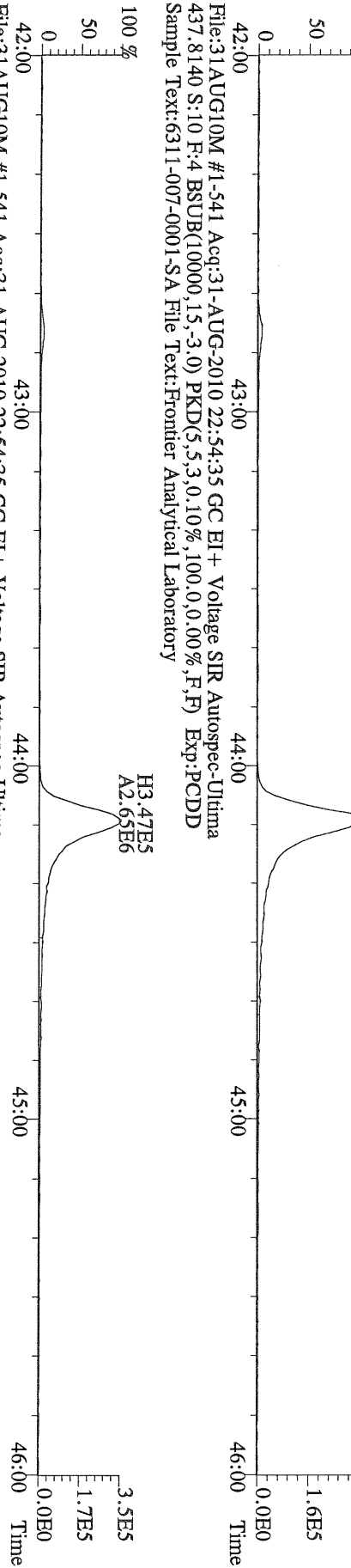
File:31AUG10M #1-477 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
380.9760 S:10 F:3 Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory  
100 %



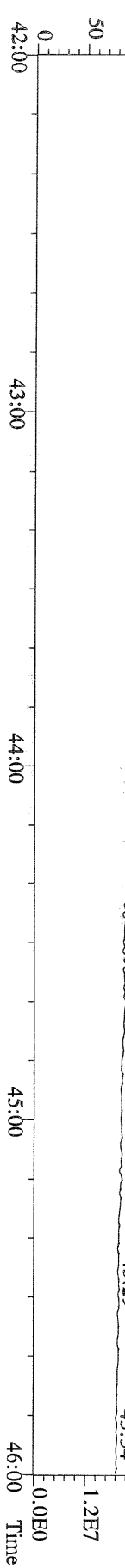
File:31AUG10M #1-541 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
423.7767 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



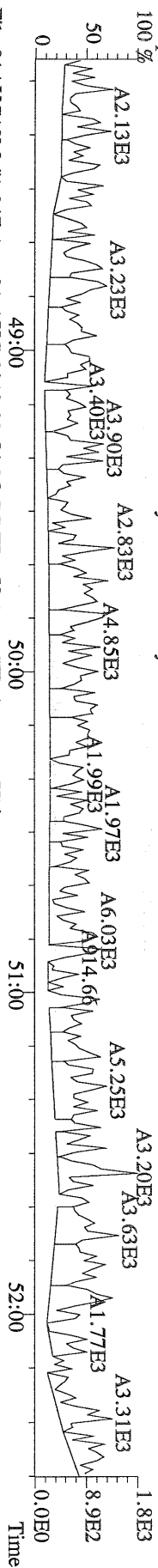
File:31AUG10M #1-541 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
435.8169 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



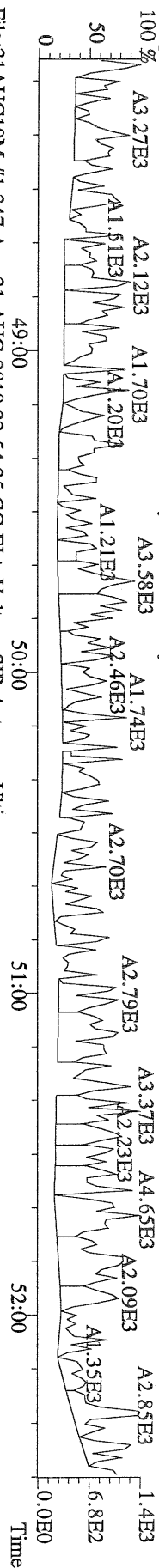
File:31AUG10M #1-541 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:10 F:4 Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



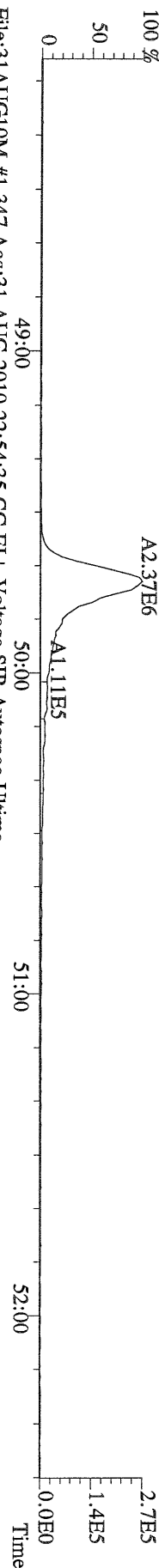
File:31AUG10M #1-347 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Utima  
457.7377 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



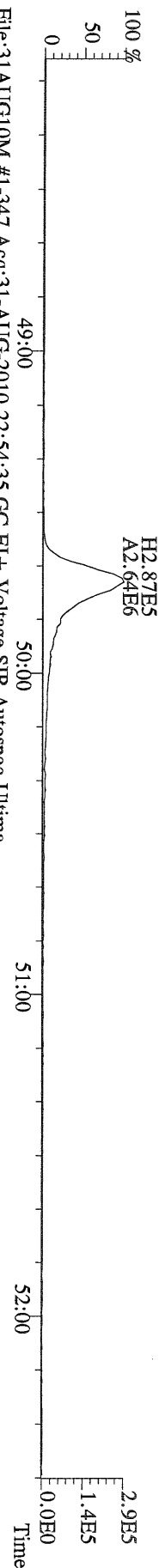
File:31AUG10M #1-347 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Utima  
459.7348 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



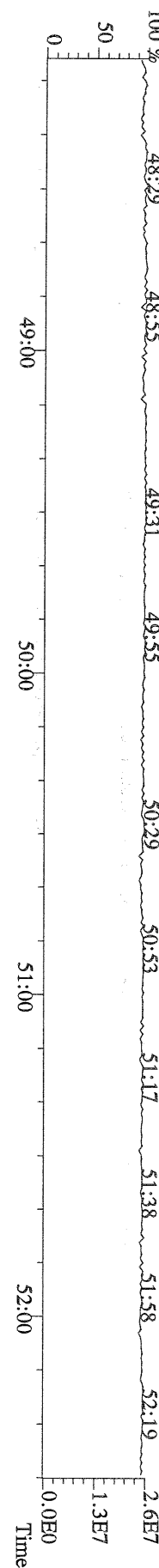
File:31AUG10M #1-347 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Utima  
469.7780 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



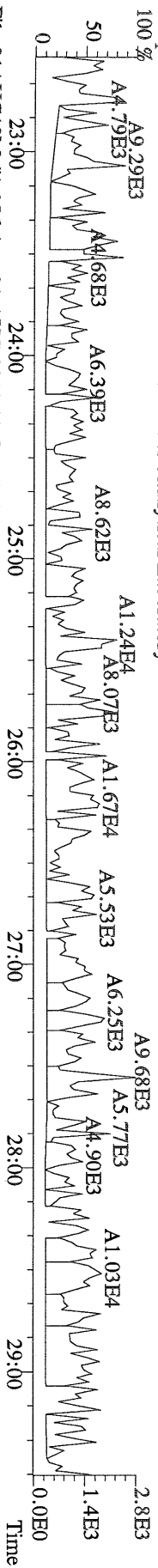
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471.7750 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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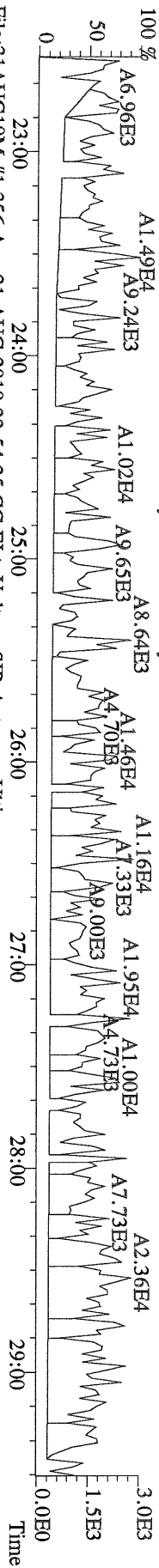
File:31AUG10M #1-347 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Utima  
454.9728 S:10 F:5 Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



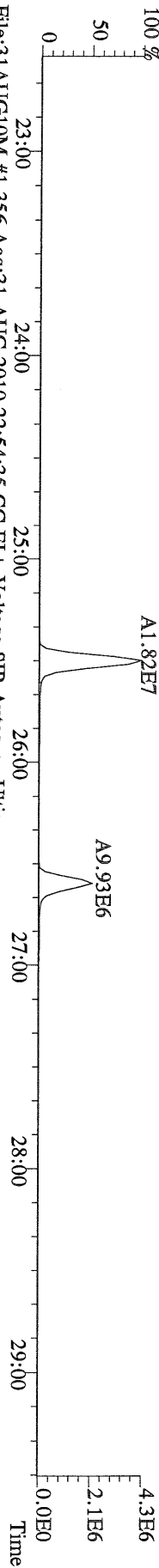
File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
 303.9016 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



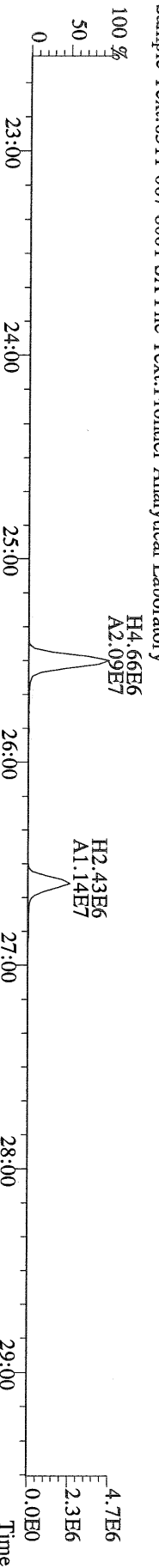
File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
 305.8987 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



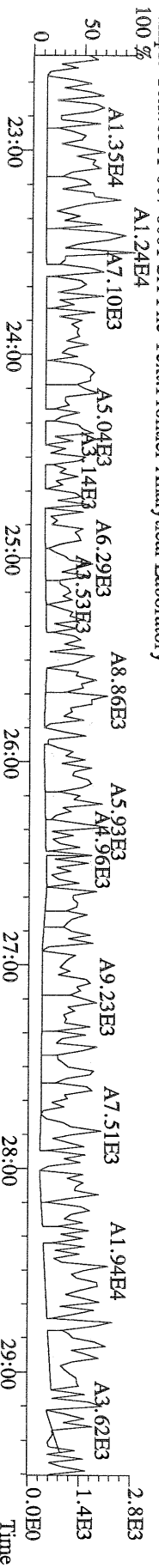
File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
 315.9419 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



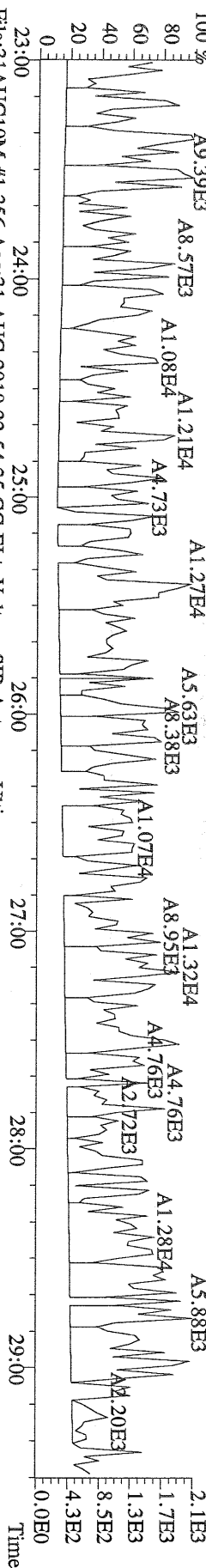
File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
 317.9389 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



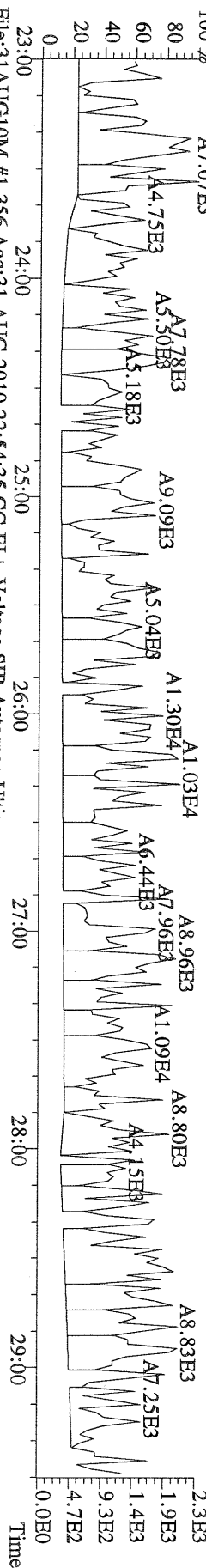
File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
 375.8364 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



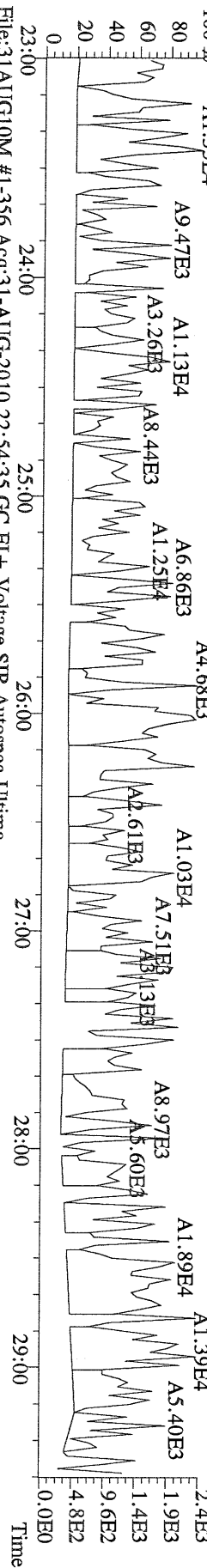
File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
339.8597 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



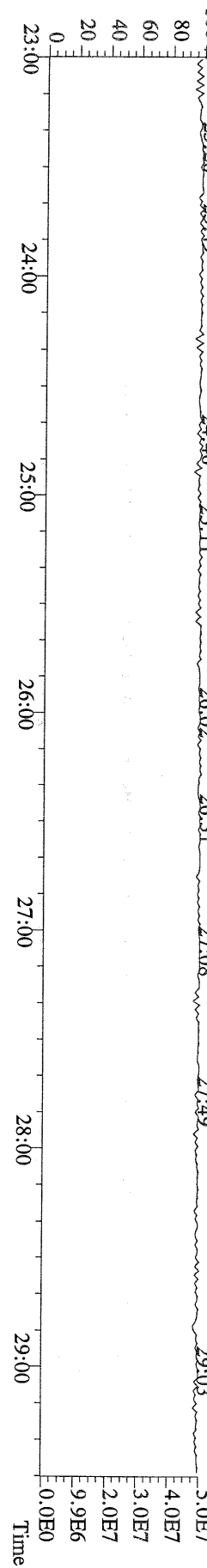
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341.8568 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



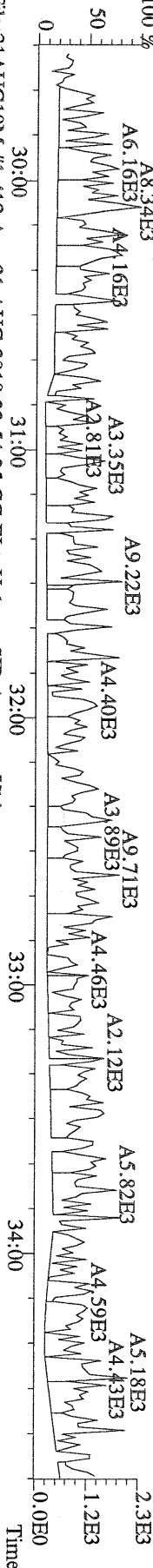
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409.7974 S:10 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



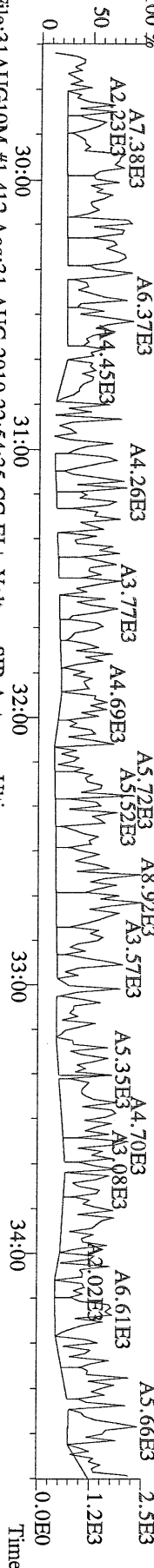
File:31AUG10M #1-356 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
330.9792 S:10 Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



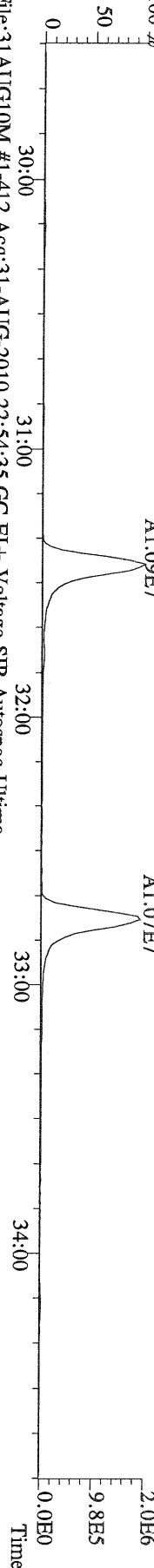
File:31AUG10M #1-412 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Utima  
339.8597 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



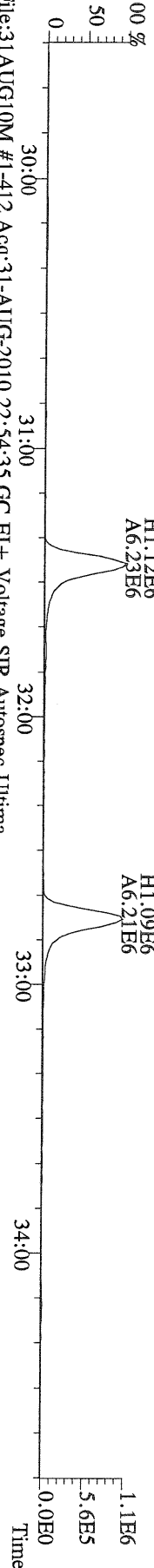
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341.8568 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



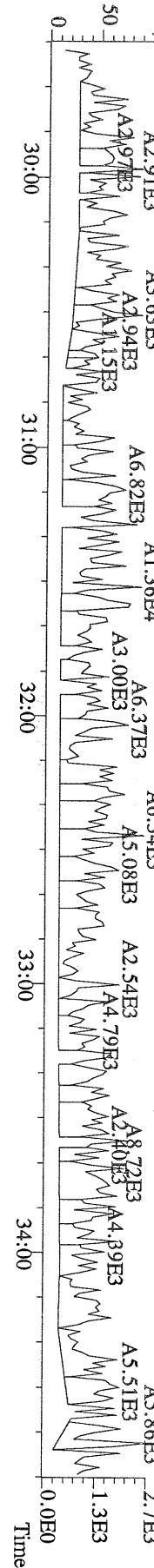
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351.9000 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



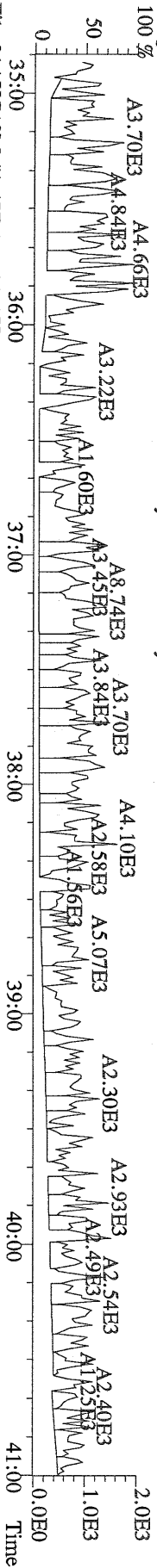
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409.7974 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



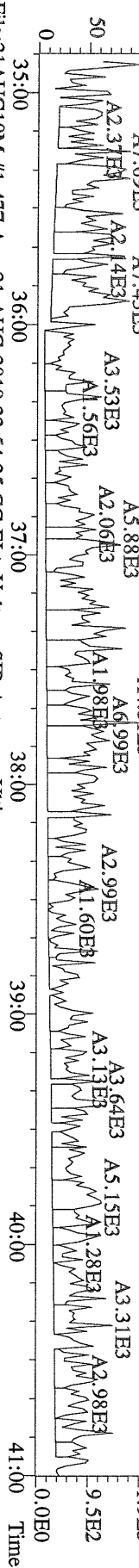
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409.7974 S:10 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



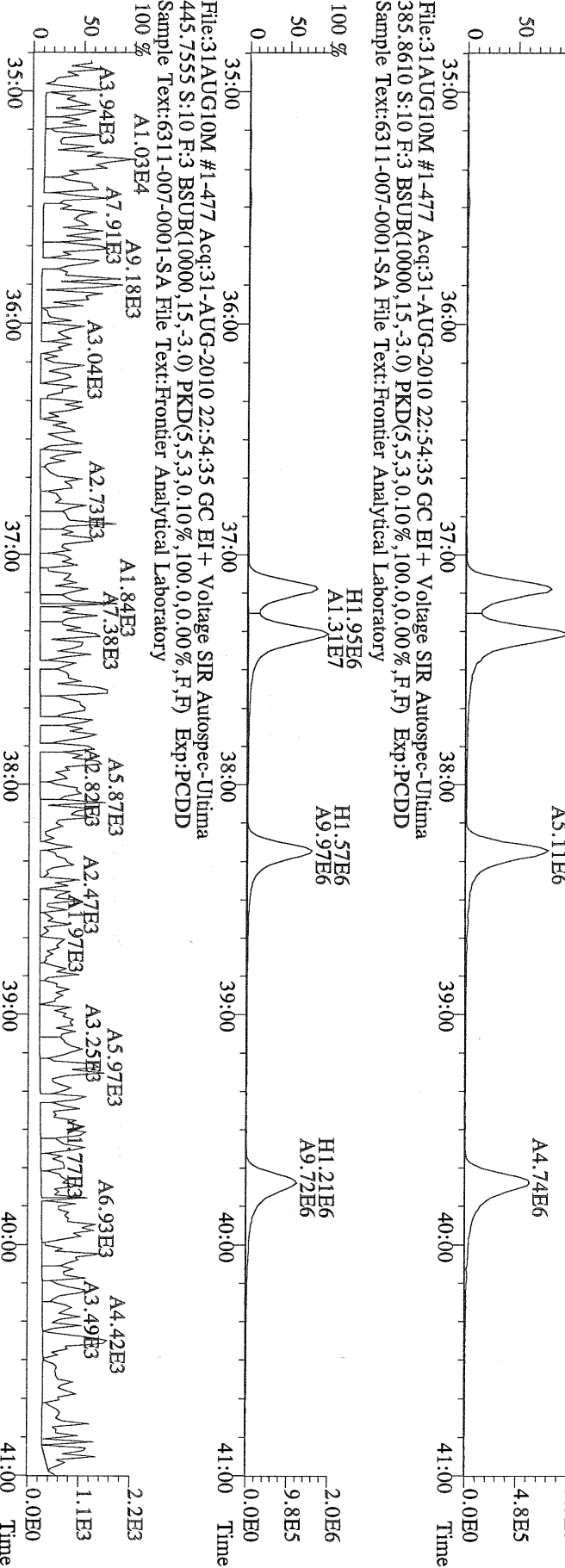
File:31AUG10M #1-477 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Ultima  
 373.8207 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-477 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Ultima  
 383.8639 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory

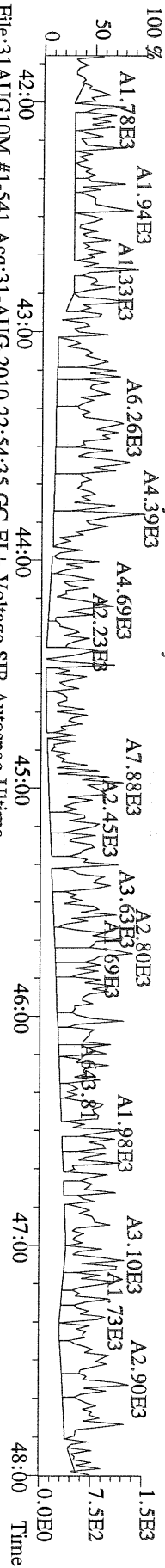


File:31AUG10M #1-477 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Ultima  
 445.7555 S:10 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory

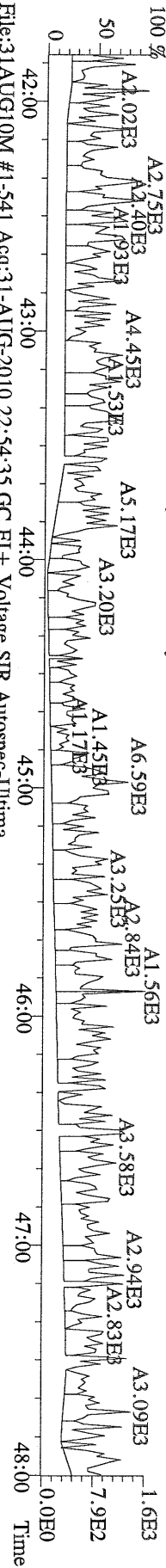




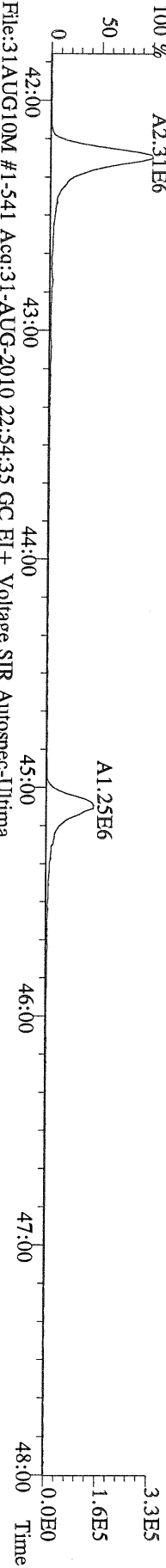
File:31AUG10M #1-541 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Utima  
407.7818 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



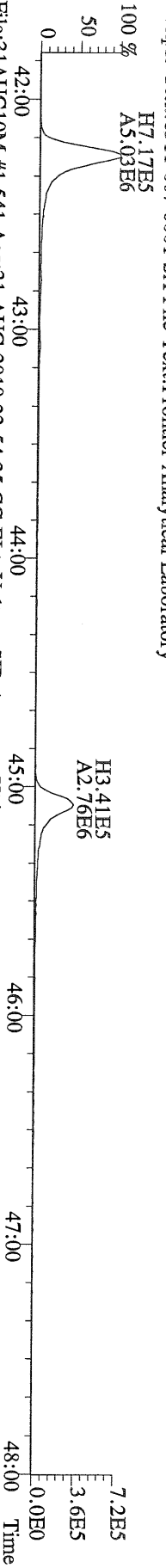
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409.7788 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



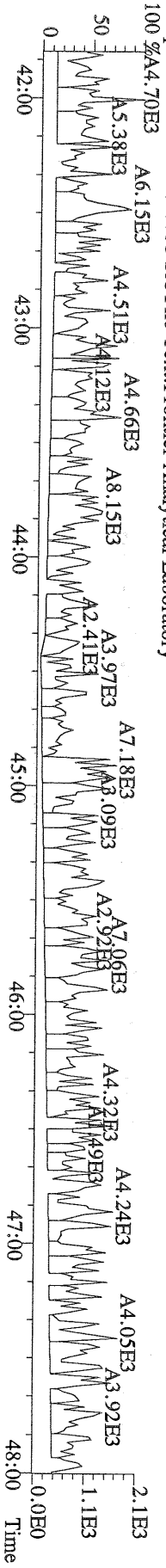
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417.8253 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



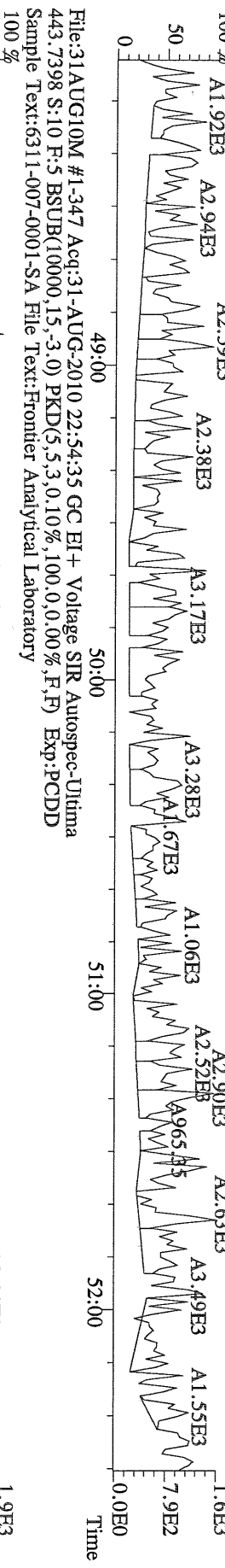
File:31AUG10M #1-541 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Utima  
419.8220 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



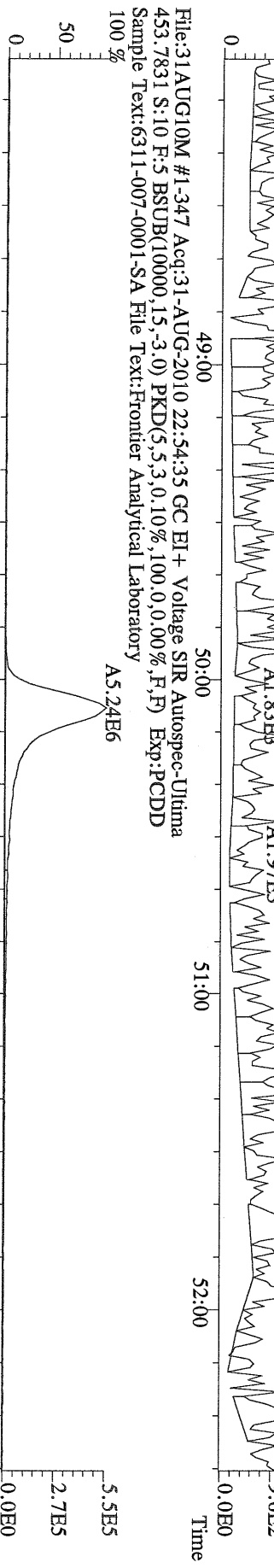
File:31AUG10M #1-541 Acq:31-AUG-2010 22:54:35 GC EI + Voltage SIR Autospec-Utima  
479.7165 S:10 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



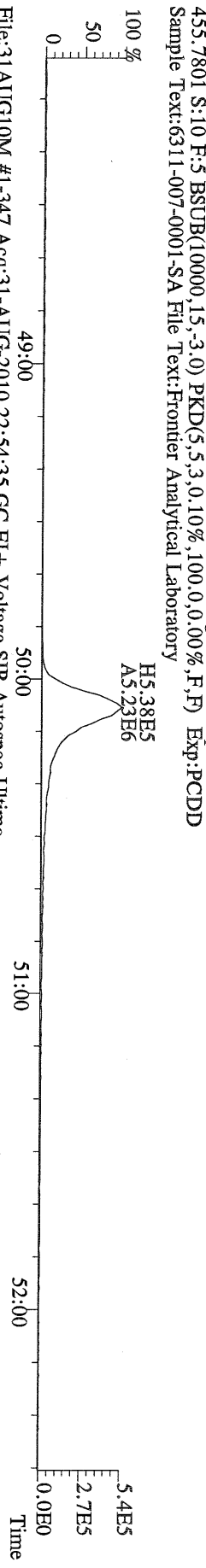
File:31AUG10M #1-347 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



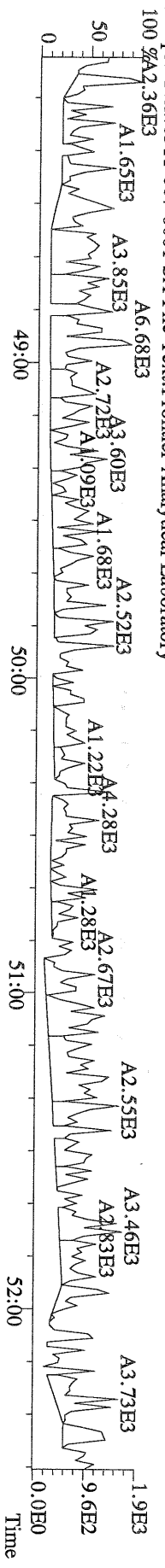
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443.7398 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-347 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-347 Acq:31-AUG-2010 22:54:35 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:10 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-007-0001-SA File Text:Frontier Analytical Laboratory

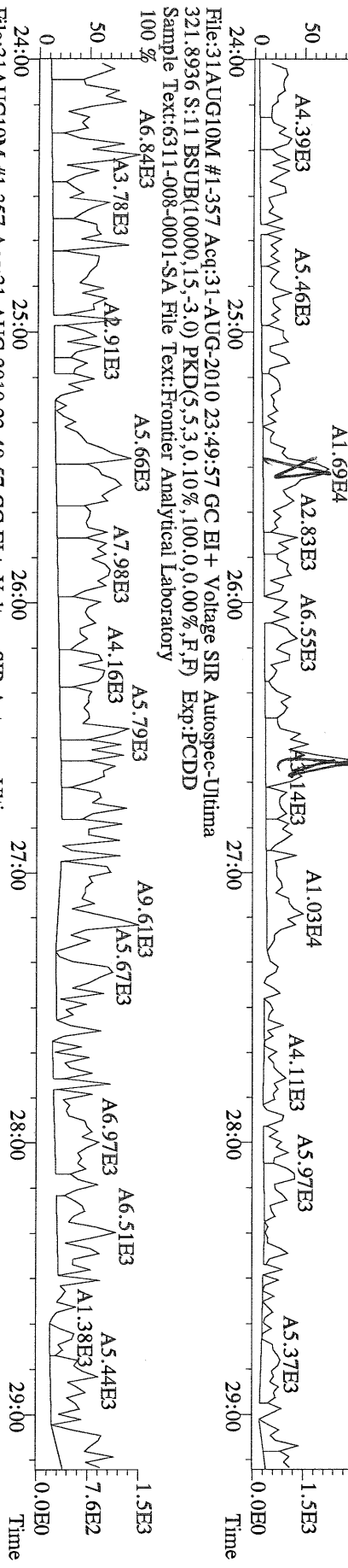


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	874	618	1.73	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	645	516	1.93	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	726	684	2.60	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	726	684	3.25	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	726	684	2.94	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	668	675	4.08	
OCDD	*	* n	NotFnd	1.43	*		2.50	690	711	10.2	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	764	930	0.836	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	569	713	1.41	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	569	713	1.46	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	618	569	1.71	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	618	569	1.62	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	618	569	1.79	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	618	569	2.01	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	534	574	2.49	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	534	574	4.68	
OCDF	*	* n	NotFnd	0.79	*		2.50	558	637	8.56	
13C-2,3,7,8-TCDD	1.84e+07	0.85	y	27:21	1.02	1640				79.7	
13C-1,2,3,7,8-PeCDD	1.64e+07	1.75	y	33:10	0.84	1780				86.6	
13C-1,2,3,4,7,8-HxCDD	1.10e+07	1.25	y	38:33	1.07	1550				75.6	
13C-1,2,3,6,7,8-HxCDD	1.06e+07	1.23	y	38:42	1.01	1590				77.3	
13C-1,2,3,4,6,7,8-HpCDD	8.89e+06	0.95	y	44:10	0.86	1570				76.6	
13C-OCDD	9.16e+06	1.00	y	49:43	0.55	2540				61.9	
13C-2,3,7,8-TCDF	3.22e+07	0.87	y	26:36	0.99	1730				84.2	
13C-1,2,3,7,8-PeCDF	2.61e+07	1.78	y	31:26	0.84	1660				81.0	
13C-2,3,4,7,8-PeCDF	2.54e+07	1.77	y	32:45	0.81	1670				81.4	
13C-1,2,3,4,7,8-HxCDF	2.17e+07	0.50	y	37:09	1.85	1770				86.3	
13C-1,2,3,6,7,8-HxCDF	2.96e+07	0.50	y	37:21	2.54	1770				86.2	
13C-2,3,4,6,7,8-HxCDF	2.31e+07	0.52	y	38:18	2.01	1740				84.7	
13C-1,2,3,7,8,9-HxCDF	2.29e+07	0.49	y	39:44	2.03	1700				83.0	
13C-1,2,3,4,6,7,8-HpCDF	1.14e+07	0.44	y	42:15	1.11	1550				75.6	
13C-1,2,3,4,7,8,9-HpCDF	6.97e+06	0.42	y	45:04	0.80	1310				64.0	
13C-OCDF	1.73e+07	1.00	y	50:06	1.08	2420				58.9	
37Cl-2,3,7,8-TCDD	5.48e+06			27:22	0.69	729				88.8	
13C-1,2,3,4-TCDD	2.25e+07	0.85	y	26:46	-	51.4					
13C-1,2,3,4-TCDF	3.84e+07	0.87	y	25:30	-	54.6					
13C-1,2,3,7,8,9-HxCDD	1.36e+07	1.29	y	39:09	-	50.5					
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	874	618	1.73	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	645	516	1.93	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	726	684	3.25	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	668	675	4.08	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	764	930	0.836	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	569	713	1.46	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	569	713	1.46	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	618	569	2.01	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	534	574	4.68	0

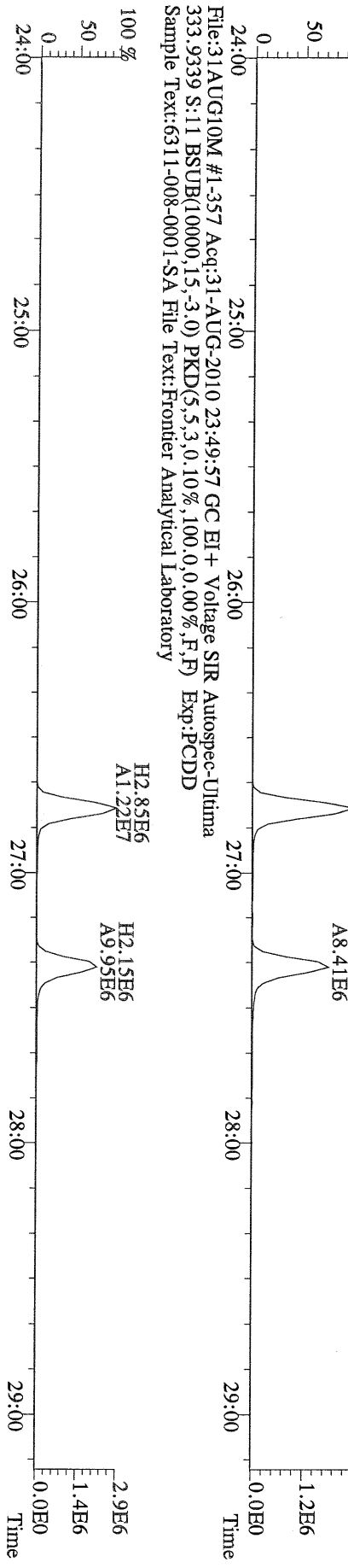
Analyst: 

Date: 9/1/10

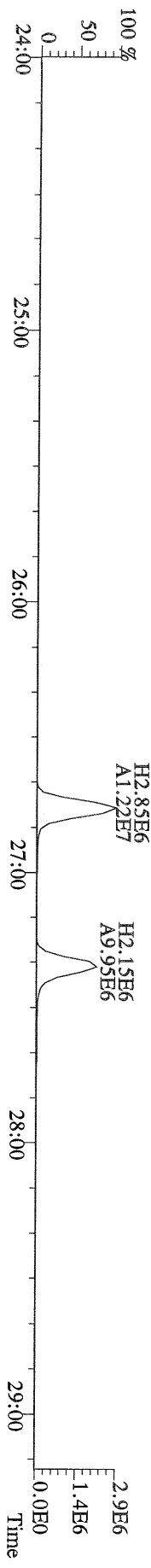
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319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



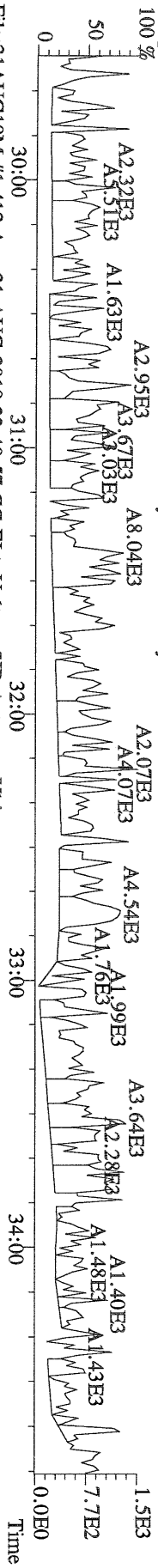
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327.8847 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



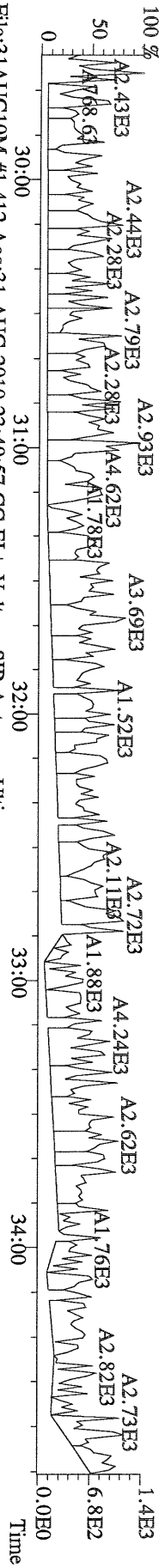
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333.9339 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



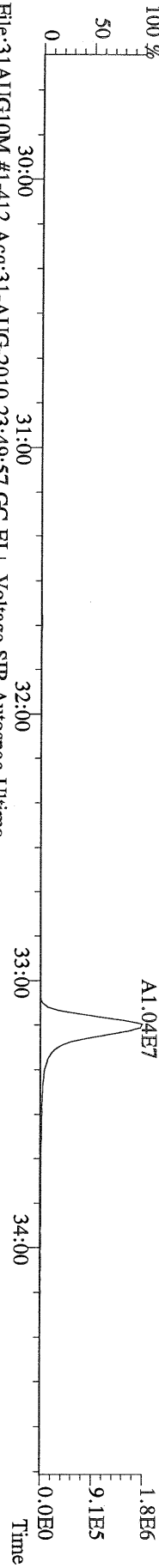
File:31AUG10M #1-412 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
 355.8546 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
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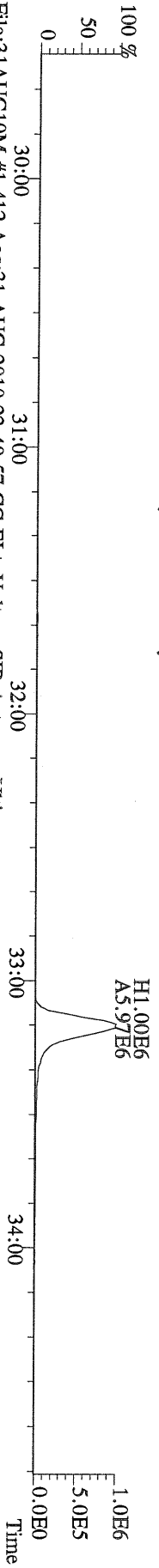
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 357.8517 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
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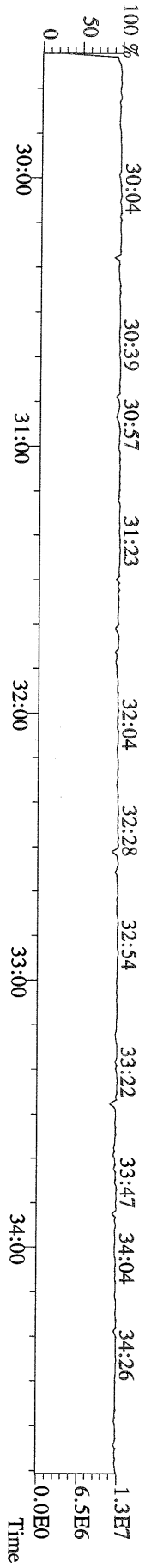
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 367.8949 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:63111-008-0001-SA File Text:Frontier Analytical Laboratory



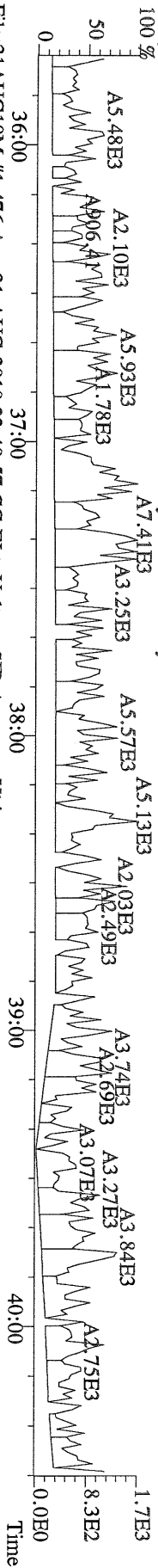
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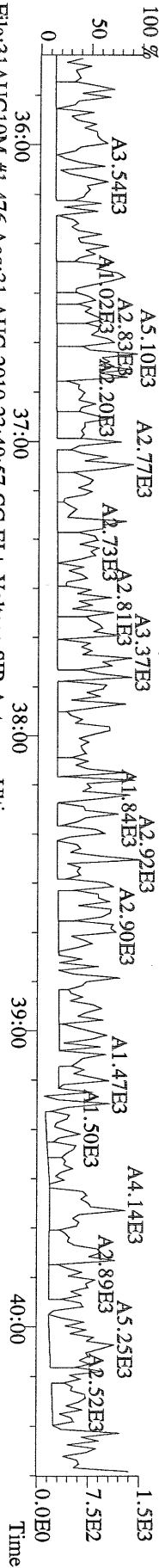
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 366.9792 S:11 F:2 Exp:PCDD  
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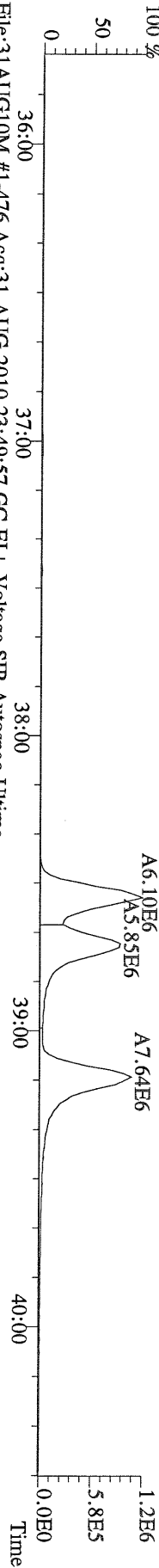
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389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



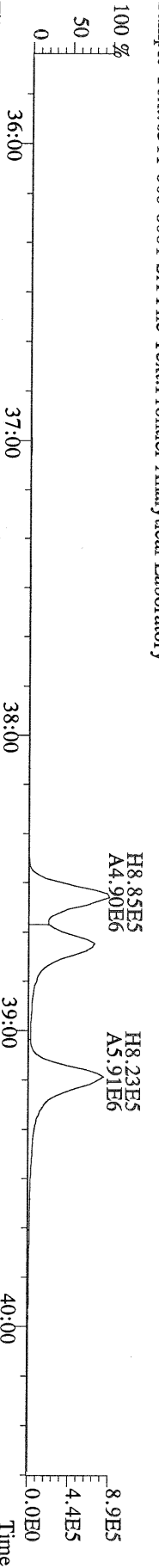
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391.8127 S:11 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



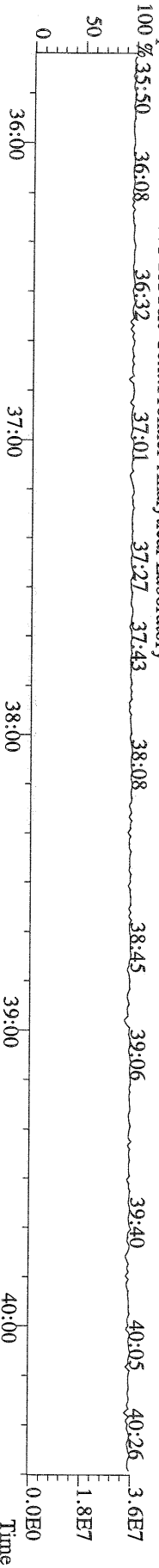
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401.8559 S:11 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



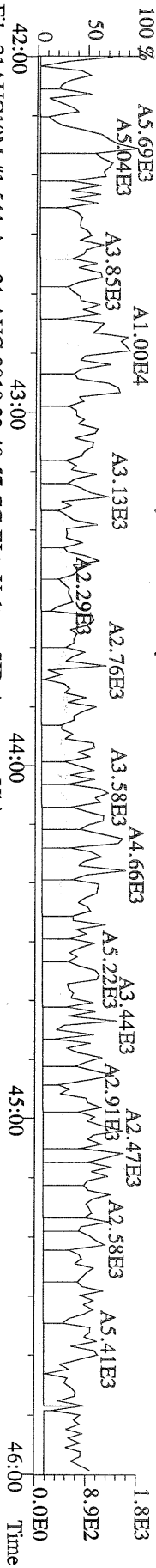
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403.8530 S:11 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



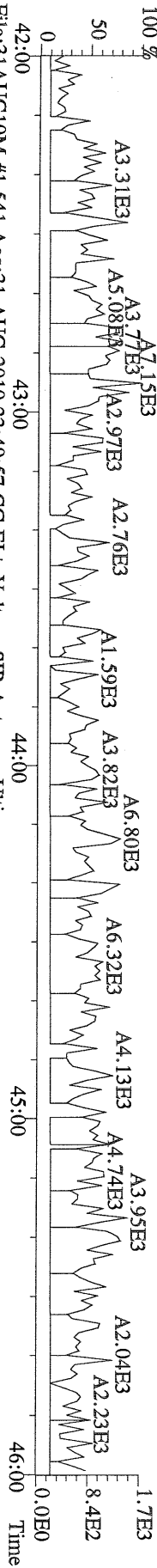
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380.9760 S:11 F:3 Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



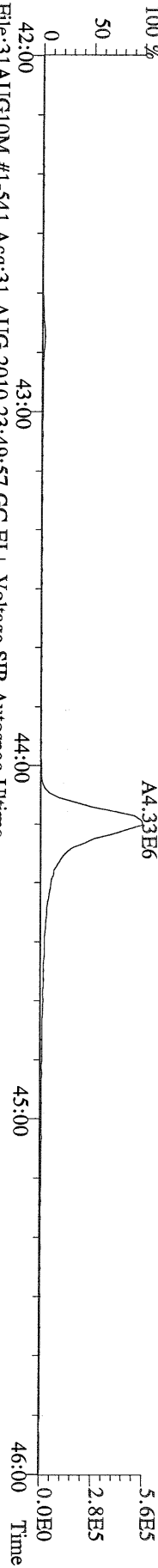
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423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



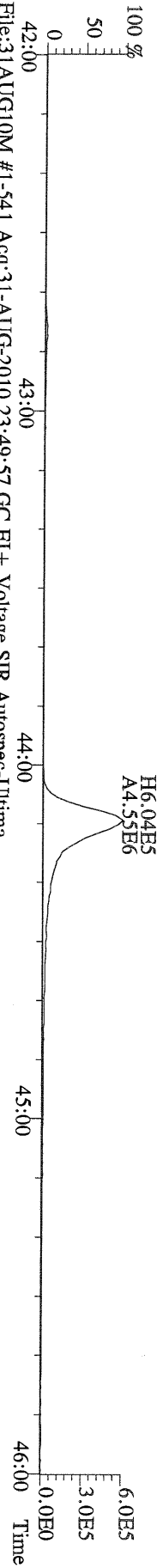
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425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



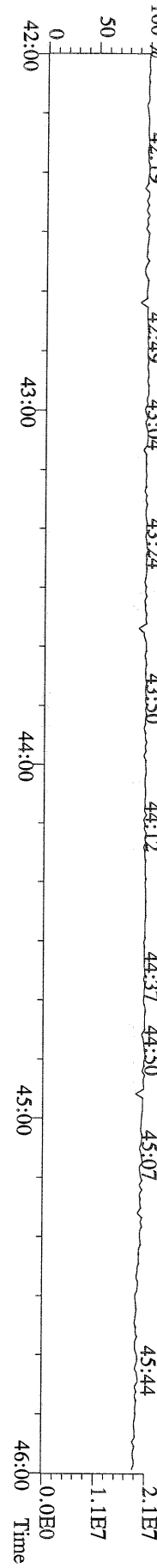
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435.8169 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



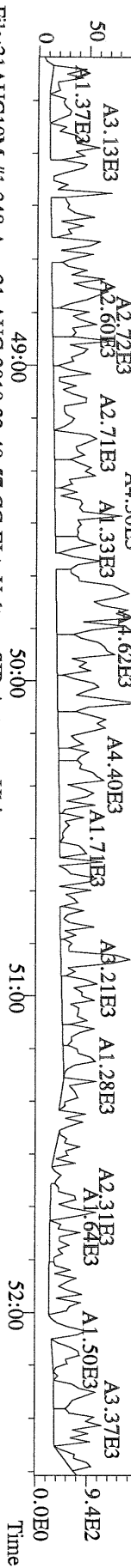
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437.8140 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



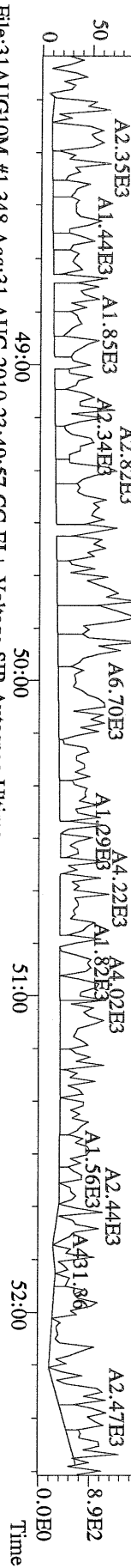
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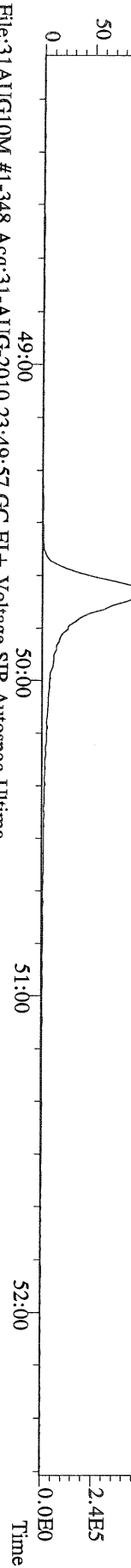
File:31AUG10M #1-348 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
 457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



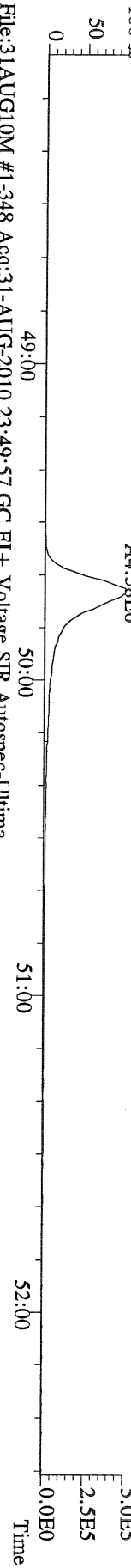
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 459.7348 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



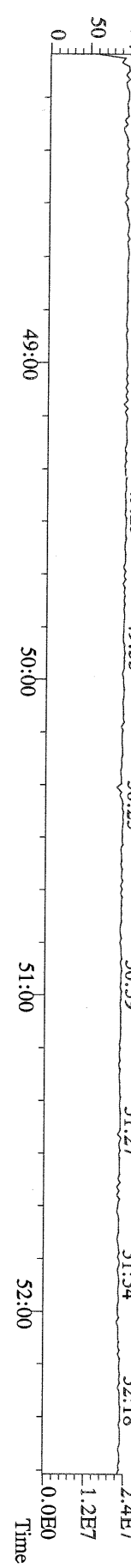
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 469.7780 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
 471.7750 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
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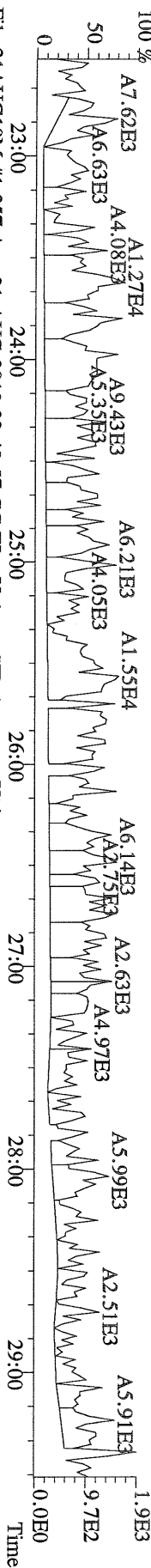


File:31AUG10M #1-348 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
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 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory

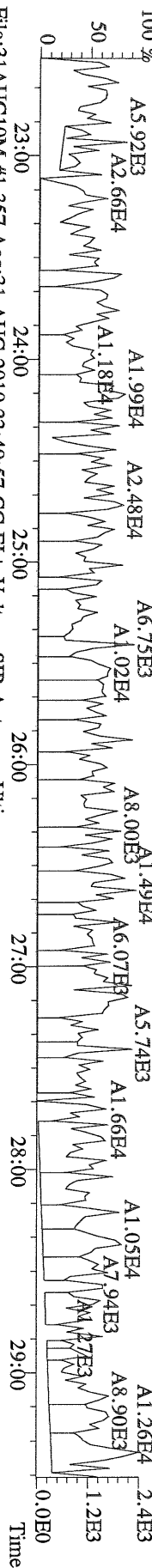




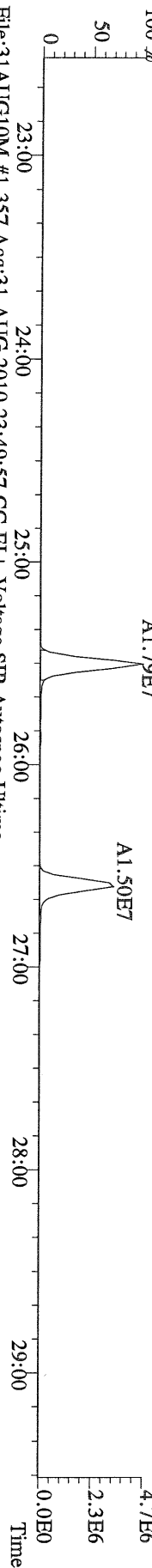
File:31AUG10M #1-357 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



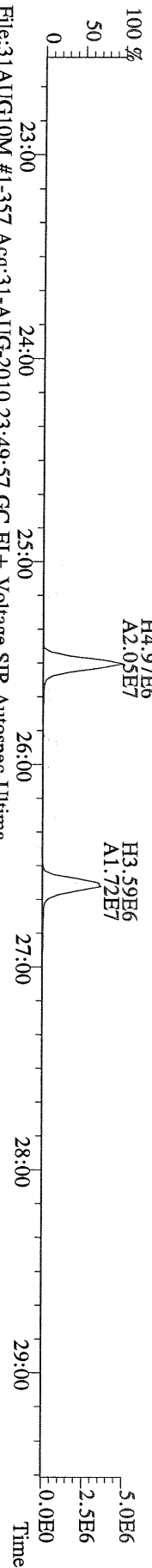
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305.8987 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



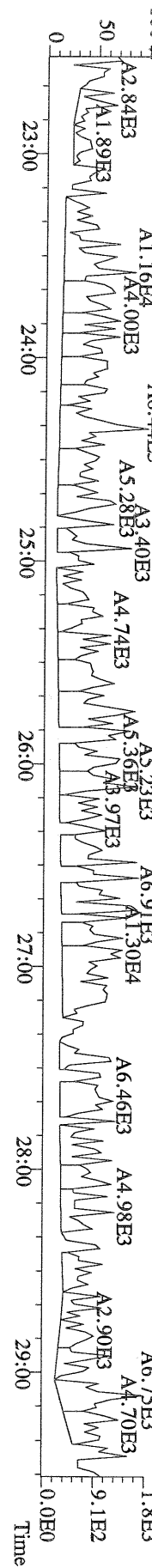
File:31AUG10M #1-357 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
315.9419 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



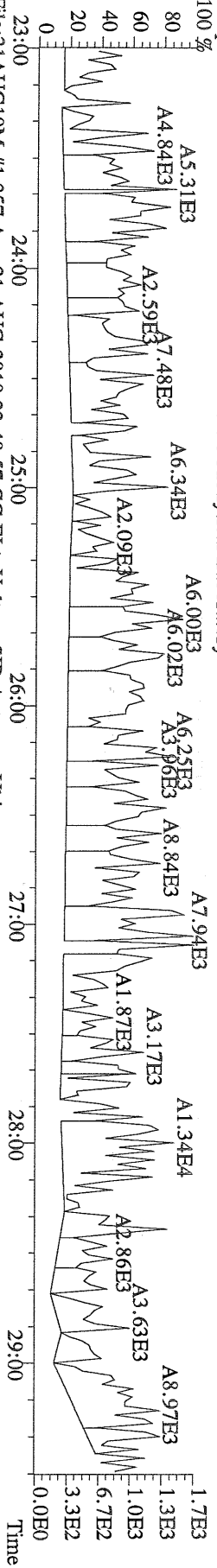
File:31AUG10M #1-357 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
317.9389 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



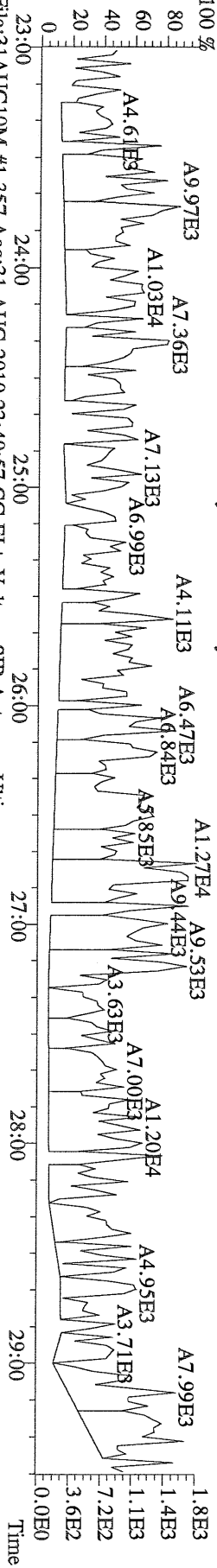
File:31AUG10M #1-357 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
375.8364 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



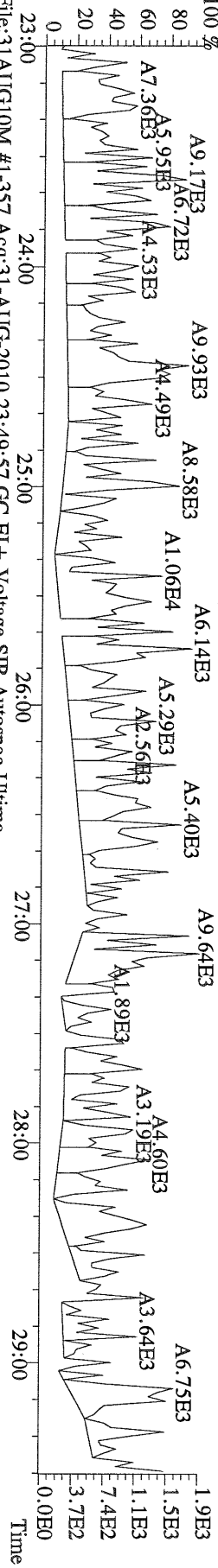
File:31AUG10M #1-357 Acq:31-AUG-2010 23:49:57 GC EI + Voltage SIR Autospec-Ultima  
339.8597 S:11 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



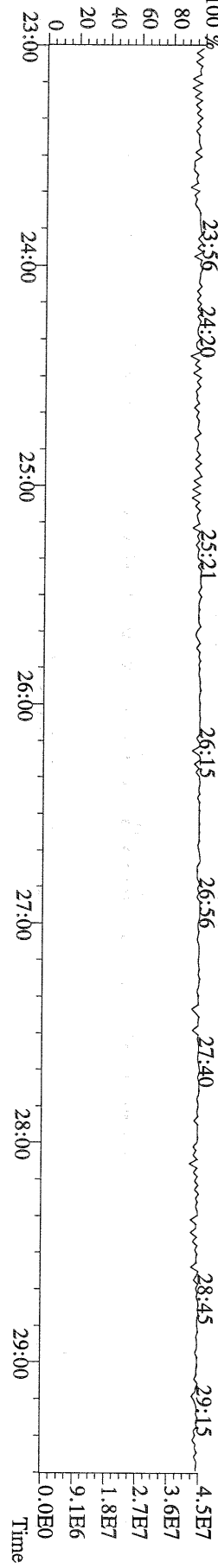
File:31AUG10M #1-357 Acq:31-AUG-2010 23:49:57 GC EI + Voltage SIR Autospec-Ultima  
341.8568 S:11 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



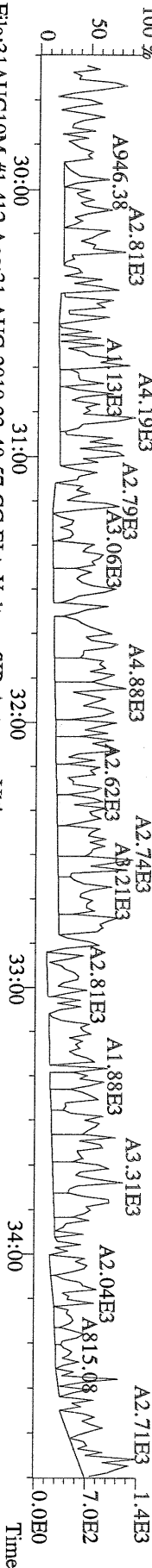
File:31AUG10M #1-357 Acq:31-AUG-2010 23:49:57 GC EI + Voltage SIR Autospec-Ultima  
409.7974 S:11 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



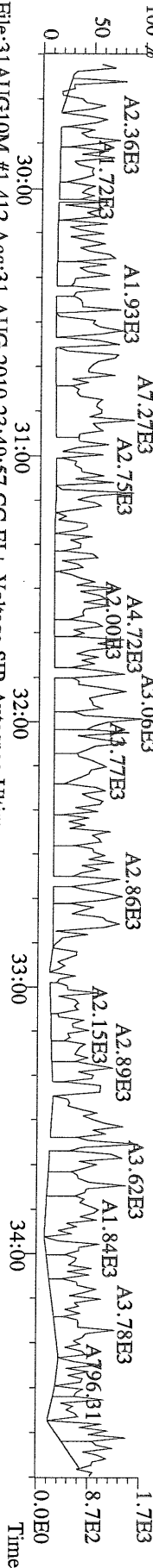
File:31AUG10M #1-357 Acq:31-AUG-2010 23:49:57 GC EI + Voltage SIR Autospec-Ultima  
330.9792 S:11 Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



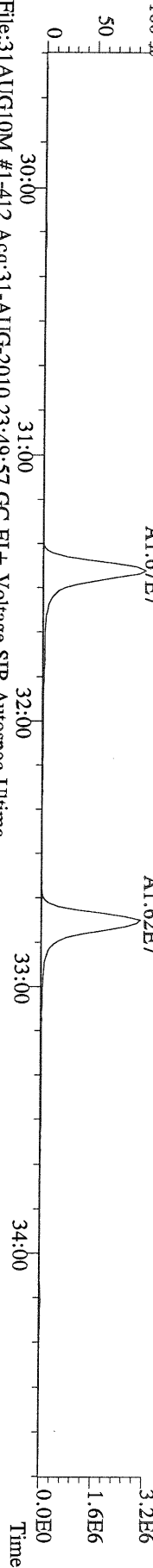
File:31AUG10M #1-412 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Utima  
 339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



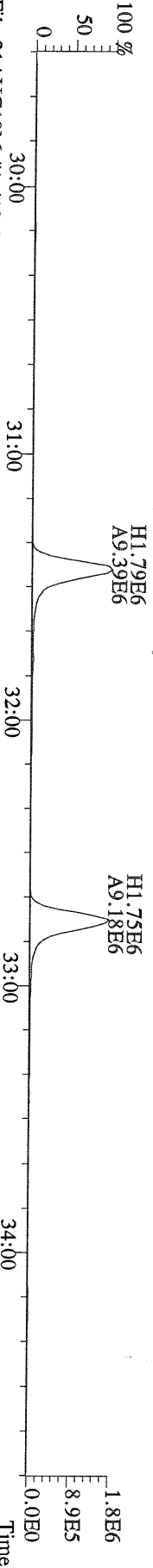
File:31AUG10M #1-412 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Utima  
 341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



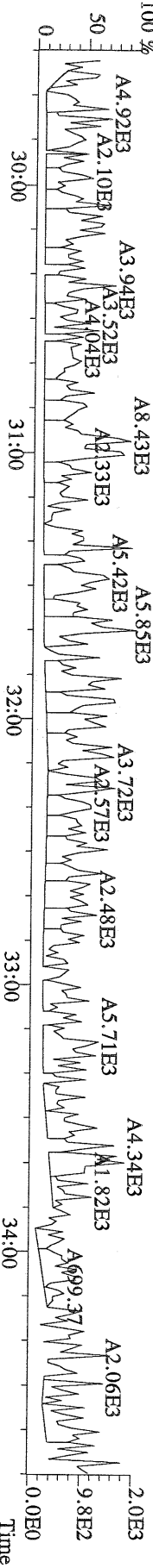
File:31AUG10M #1-412 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Utima  
 351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



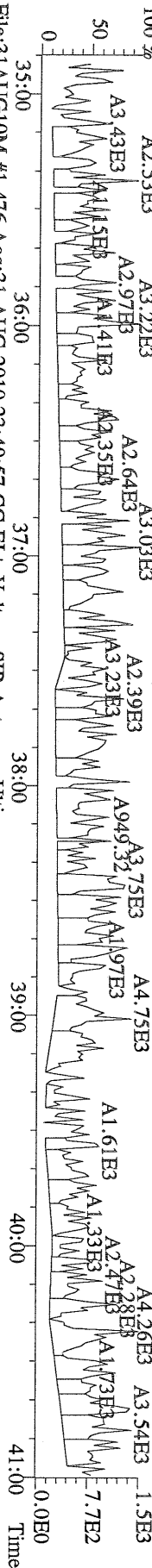
File:31AUG10M #1-412 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Utima  
 409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



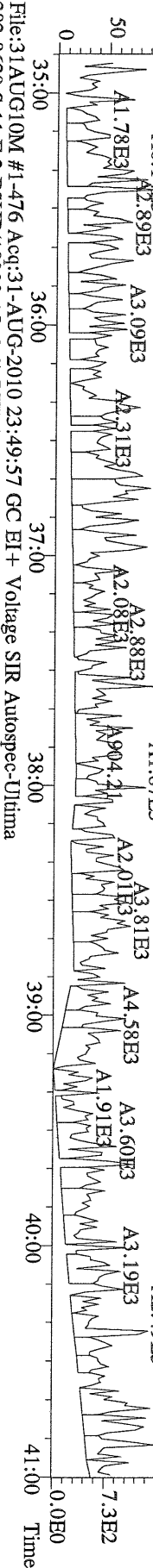
File:31AUG10M #1-412 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Utima  
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 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



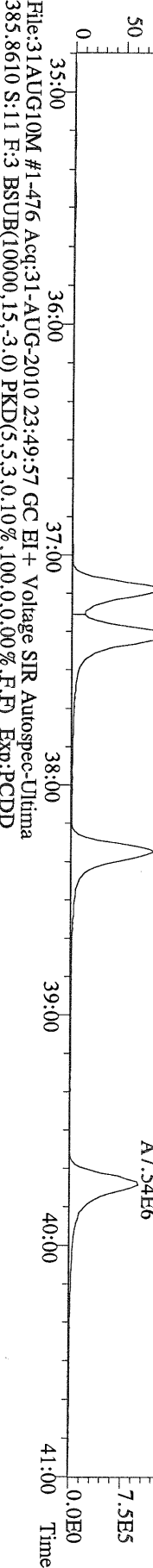
File:31AUG10M #1-476 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Utima  
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



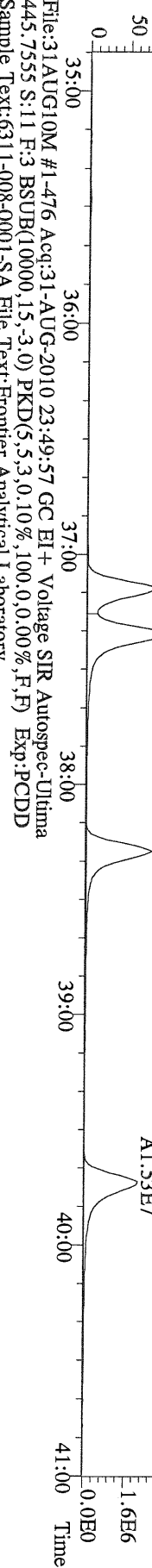
File:31AUG10M #1-476 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Utima  
375.8178 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



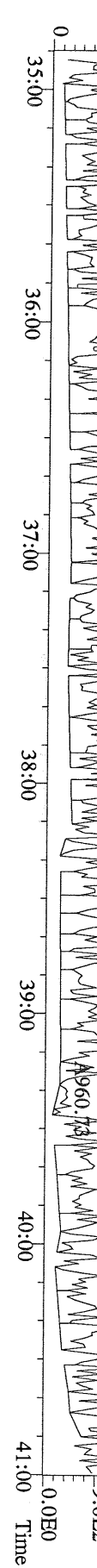
File:31AUG10M #1-476 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Utima  
383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



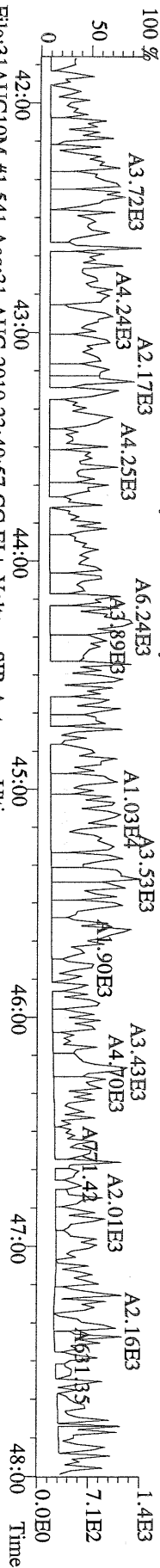
File:31AUG10M #1-476 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Utima  
385.8610 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



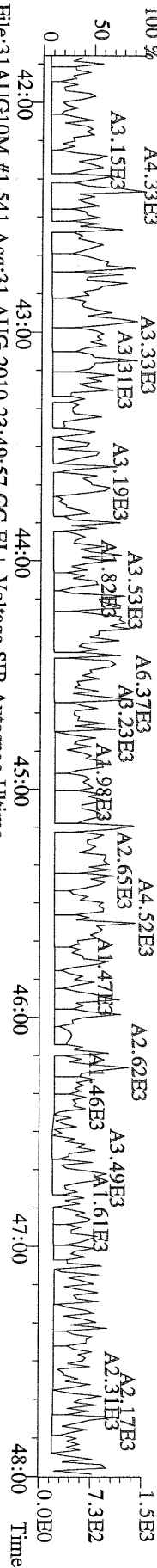
File:31AUG10M #1-476 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Utima  
445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



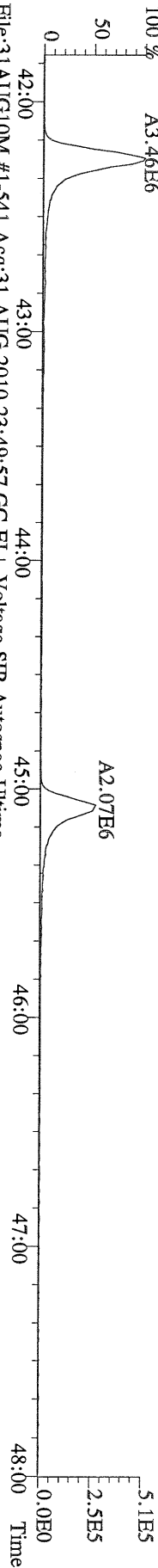
File:31AUG10M #1-541 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultime  
 407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



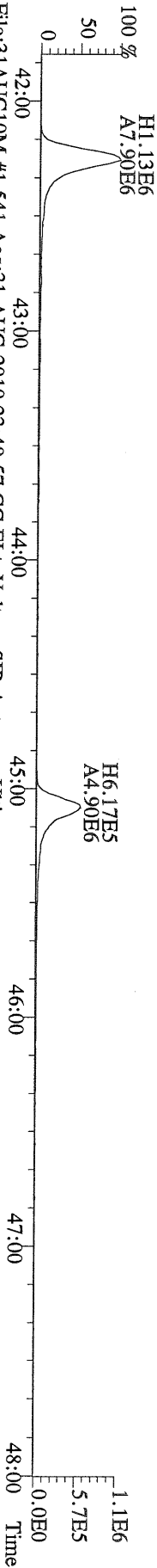
File:31AUG10M #1-541 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultime  
 409.7788 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



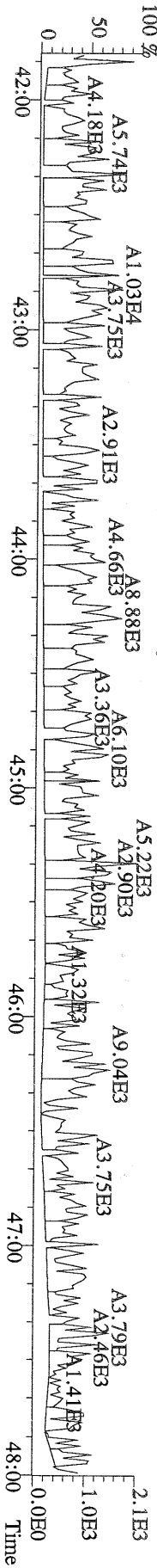
File:31AUG10M #1-541 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultime  
 417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



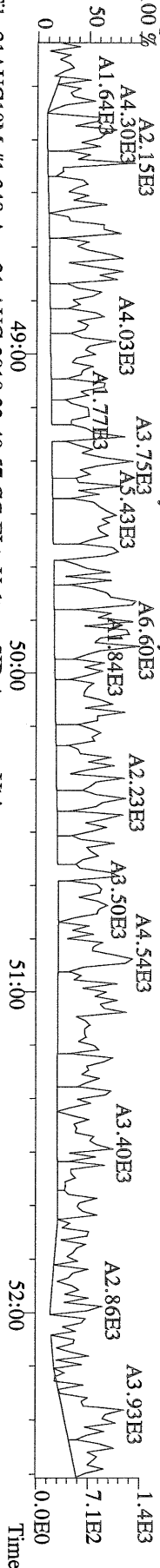
File:31AUG10M #1-541 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultime  
 419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



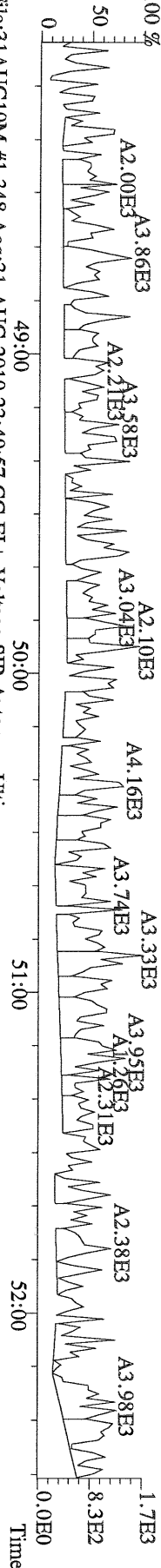
File:31AUG10M #1-541 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultime  
 479.7165 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



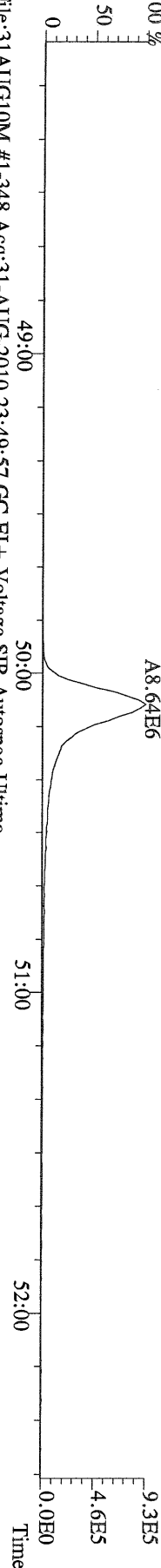
File:31AUG10M #1-348 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



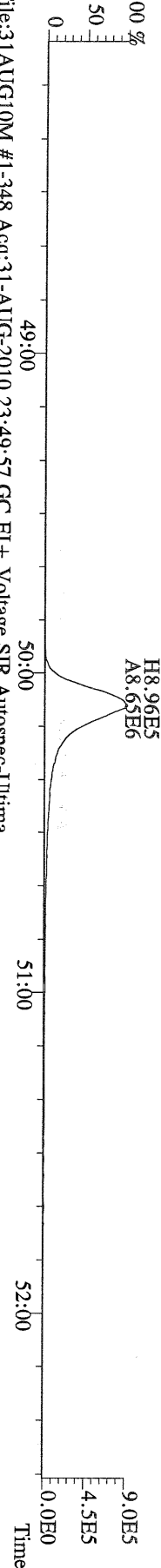
File:31AUG10M #1-348 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



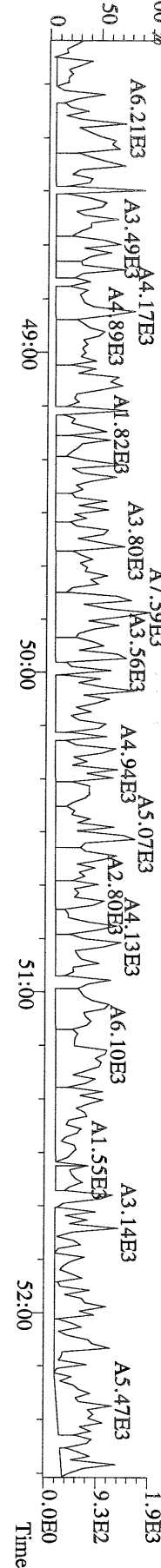
File:31AUG10M #1-348 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-348 Acq:31-AUG-2010 23:49:57 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-008-0001-SA File Text:Frontier Analytical Laboratory

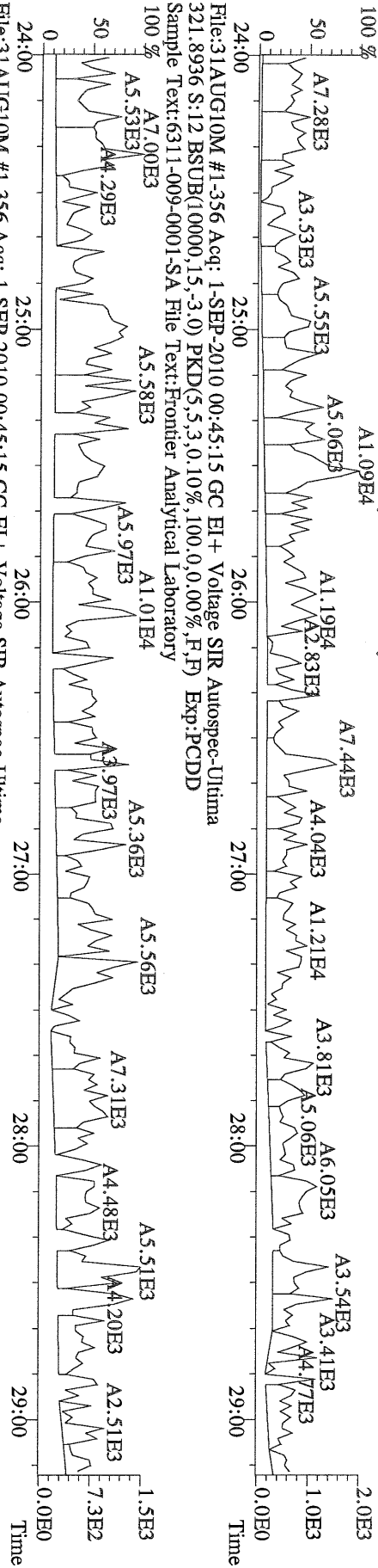


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	Rec	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.11	*		2.50	694	560	1.62	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.10	*		2.50	568	562	2.00	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	667	565	2.52	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	667	565	3.11	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.36	*		2.50	667	565	2.84	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.45	*		2.50	625	650	4.19	
OCDD	*	* n	NotFnd	1.43	*		2.50	506	533	8.66	
2,3,7,8-TCDF	*	* n	NotFnd	1.50	*		2.50	680	882	0.841	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	628	833	1.71	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*		2.50	628	833	1.81	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	621	620	1.92	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	0.82	*		2.50	621	620	1.84	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.92	*		2.50	621	620	2.05	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.00	*		2.50	621	620	2.27	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.39	*		2.50	615	542	2.76	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.36	*		2.50	615	542	5.74	
OCDF	*	* n	NotFnd	0.79	*		2.50	504	554	8.26	
13C-2,3,7,8-TCDD	1.60e+07	0.88	y	27:21	1.02	1450				75.6	
13C-1,2,3,7,8-PeCDD	1.44e+07	1.77	y	33:10	0.84	1600				83.1	
13C-1,2,3,4,7,8-HxCDD	9.33e+06	1.23	y	38:33	1.07	1420				73.7	
13C-1,2,3,6,7,8-HxCDD	9.62e+06	1.23	y	38:43	1.01	1550				80.5	
13C-1,2,3,4,6,7,8-HpCDD	7.67e+06	0.93	y	44:10	0.86	1460				75.9	
13C-OCDD	7.25e+06	1.00	y	49:44	0.55	2160				56.2	
13C-2,3,7,8-TCDF	2.73e+07	0.86	y	26:36	0.99	1470				76.6	
13C-1,2,3,7,8-PeCDF	2.30e+07	1.75	y	31:27	0.84	1480				76.7	
13C-2,3,4,7,8-PeCDF	2.22e+07	1.75	y	32:45	0.81	1470				76.2	
13C-1,2,3,4,7,8-HxCDF	1.90e+07	0.50	y	37:10	1.85	1670				86.9	
13C-1,2,3,6,7,8-HxCDF	2.69e+07	0.50	y	37:21	2.54	1730				90.0	
13C-2,3,4,6,7,8-HxCDF	2.05e+07	0.50	y	38:18	2.01	1660				86.3	
13C-1,2,3,7,8,9-HxCDF	2.03e+07	0.49	y	39:44	2.03	1630				84.8	
13C-1,2,3,4,6,7,8-HpCDF	9.93e+06	0.43	y	42:15	1.11	1460				75.8	
13C-1,2,3,4,7,8,9-HpCDF	5.50e+06	0.43	y	45:06	0.80	1120				57.9	
13C-OCDF	1.42e+07	1.00	y	50:06	1.08	2140				55.5	
37Cl-2,3,7,8-TCDD	4.85e+06			27:22	0.69	659				85.6	
13C-1,2,3,4-TCDD	2.07e+07	0.88	y	26:47	-	44.3					
13C-1,2,3,4-TCDF	3.58e+07	0.88	y	25:31	-	47.7					
13C-1,2,3,7,8,9-HxCDD	1.18e+07	1.23	y	39:10	-	41.2					
Total Tetra-Dioxins	*		NotFnd	1.11	*		2.50	694	560	1.62	0
Total Penta-Dioxins	*		NotFnd	1.10	*		2.50	568	562	2.00	0
Total Hexa-Dioxins	*		NotFnd	1.37	*		2.50	667	565	3.11	0
Total Hepta-Dioxins	*		NotFnd	1.45	*		2.50	625	650	4.19	0
Total Tetra-Furans	*		NotFnd	1.50	*		2.50	680	882	0.841	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.94	*		2.50	628	833	1.81	PeCDF 0
Total Penta-Furans	*		NotFnd	0.94	*		2.50	628	833	1.81	* 0
Total Hexa-Furans	*		NotFnd	0.91	*		2.50	621	620	2.27	0
Total Hepta-Furans	*		NotFnd	1.38	*		2.50	615	542	5.74	0

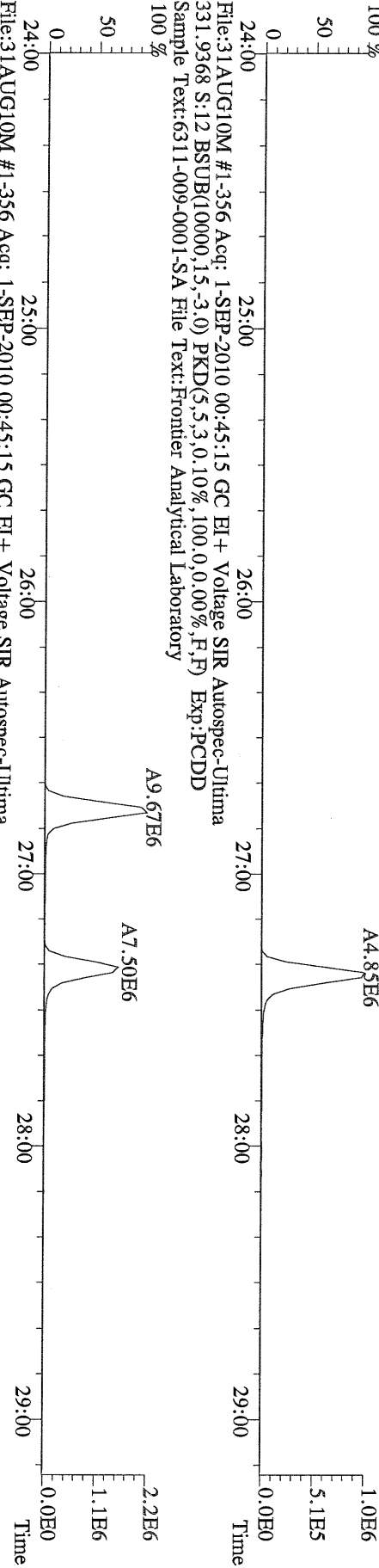
Analyst: 

Date: 9/1/10

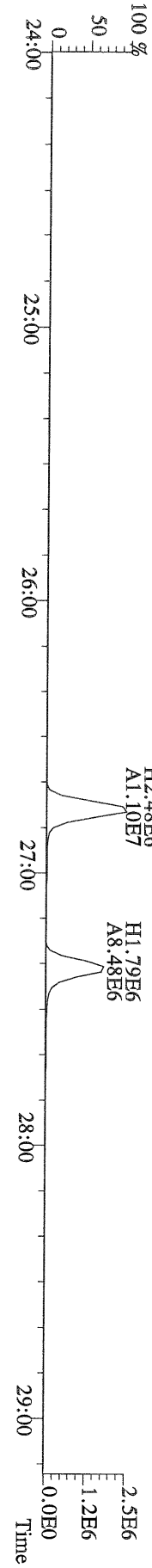
File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
327.8847 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory

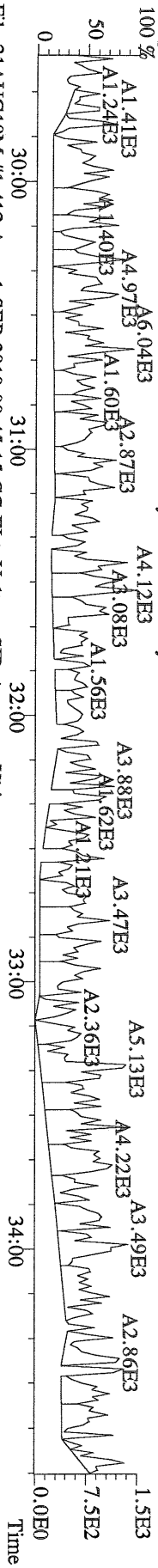


File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
333.9339 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory

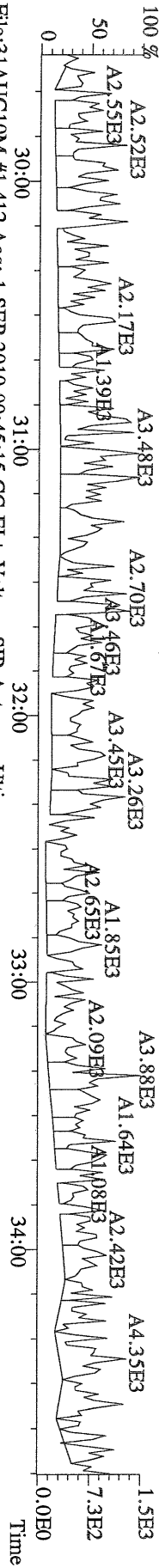




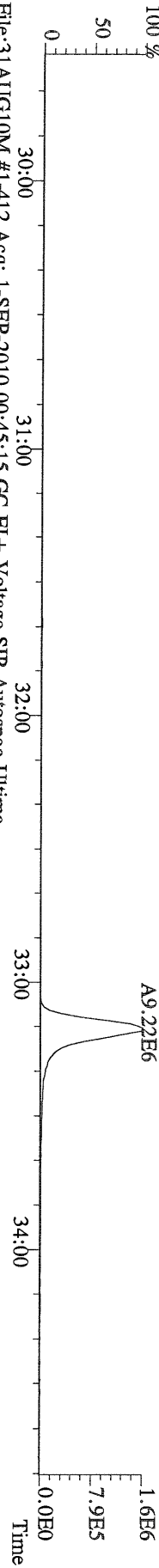
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355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



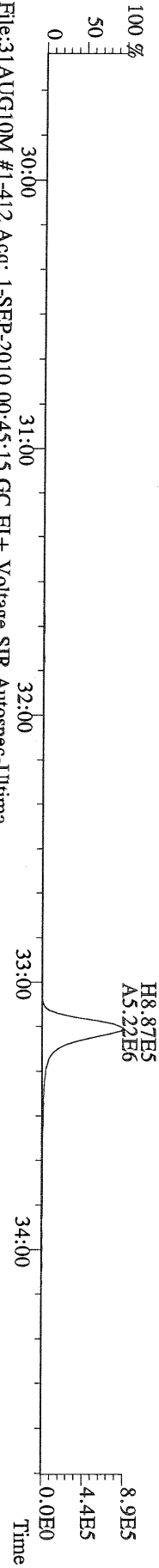
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357.8517 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



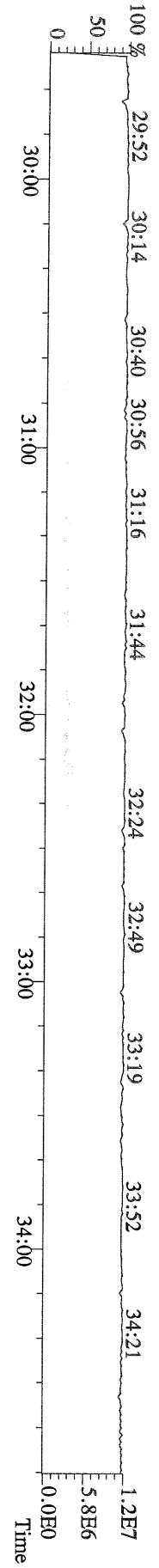
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367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



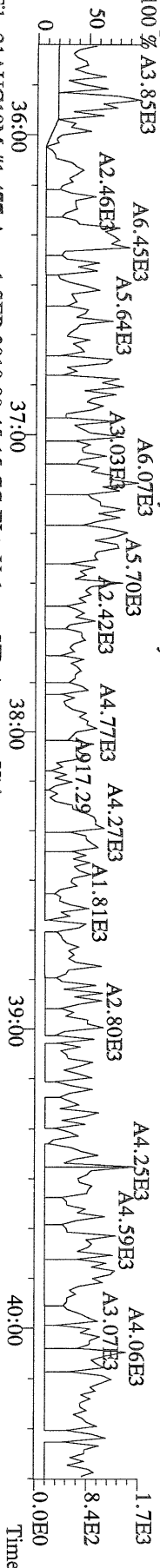
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369.8919 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



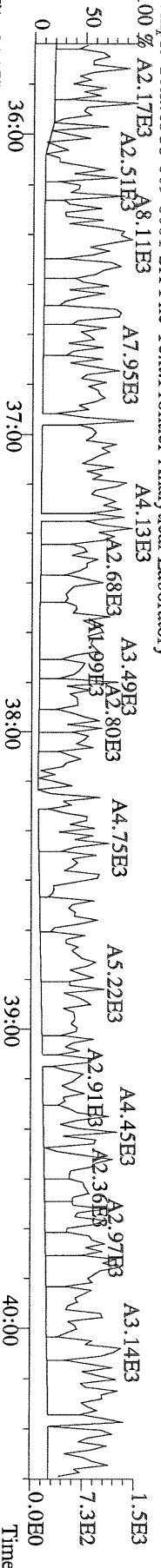
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366.9792 S:12 F:2 Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



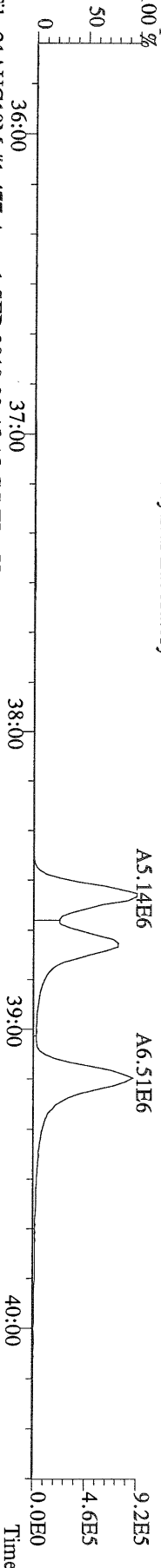
File:31AUG10M #1-477 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory  
 100 % A3.85E3



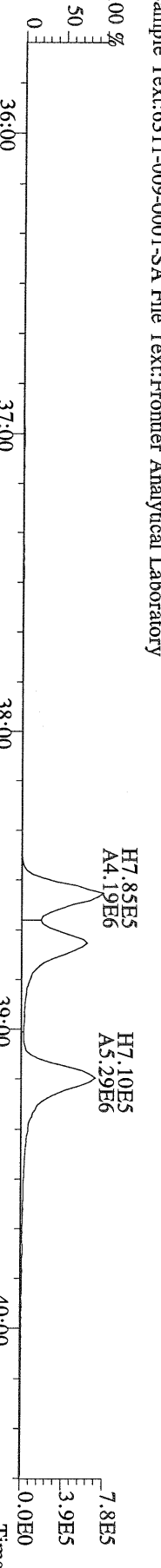
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 391.8127 S:12 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory  
 100 % A2.17E3



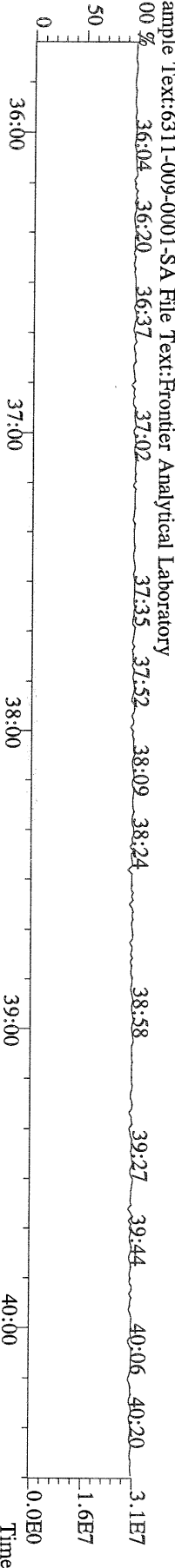
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 401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



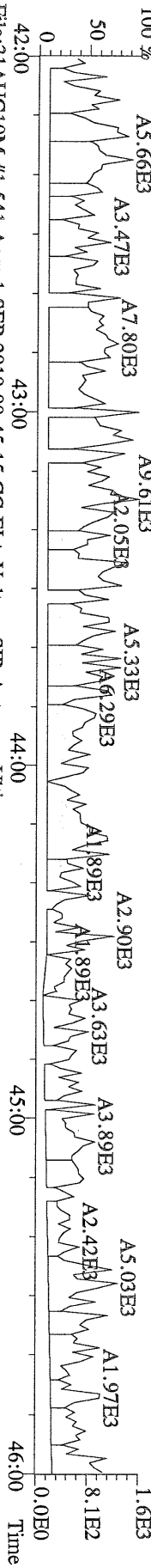
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 403.8530 S:12 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



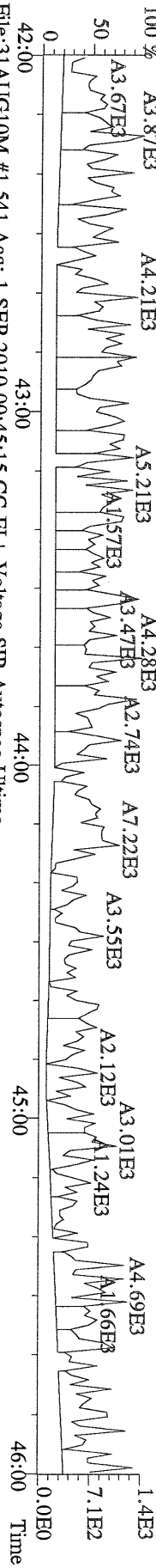
File:31AUG10M #1-477 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 380.9760 S:12 F:3 Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory  
 100 %



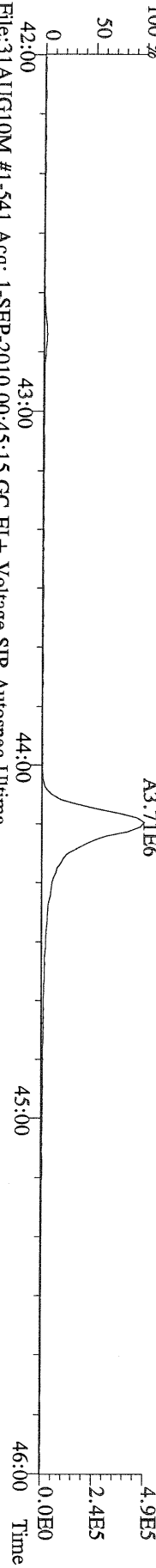
File:31AUG10M #1-541 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



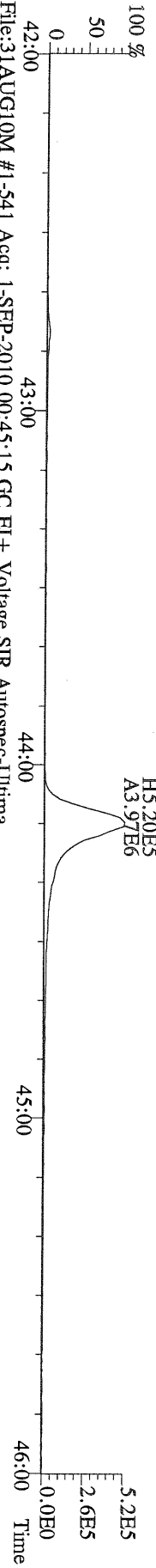
File:31AUG10M #1-541 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
425.7737 S:12 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



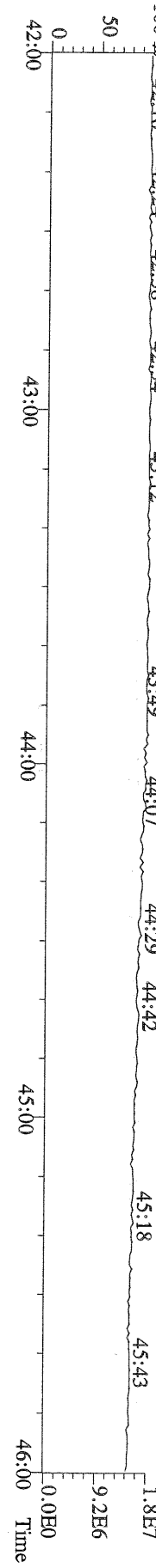
File:31AUG10M #1-541 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
435.8169 S:12 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



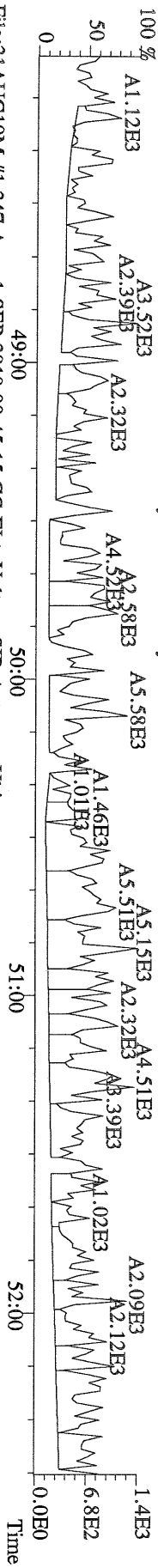
File:31AUG10M #1-541 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
437.8140 S:12 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



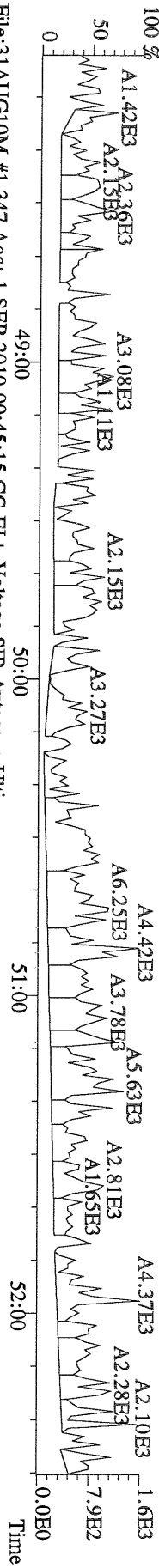
File:31AUG10M #1-541 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
430.9728 S:12 F:4 Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



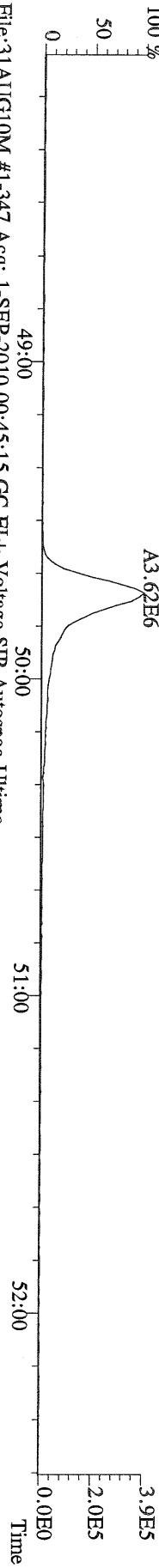
File:31AUG10M #1-347 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



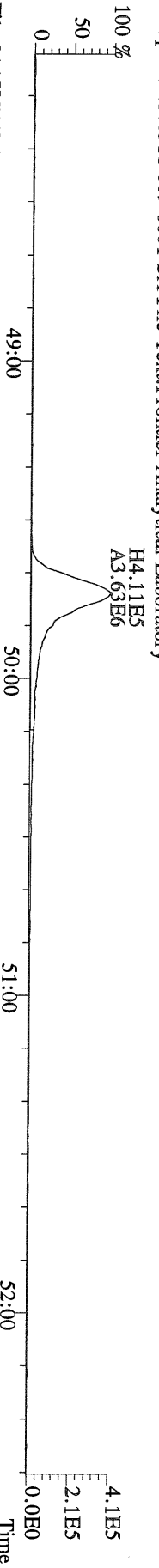
File:31AUG10M #1-347 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 459.7348 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



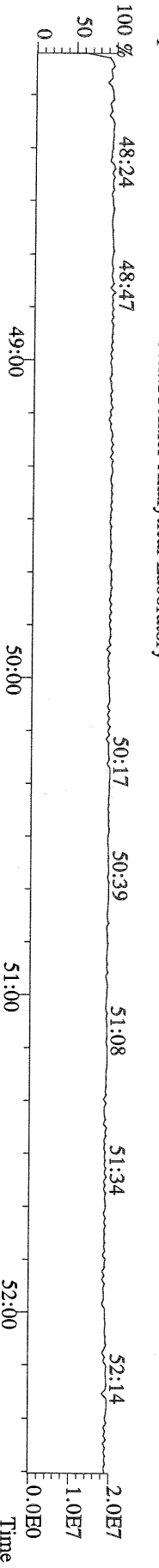
File:31AUG10M #1-347 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 469.7780 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



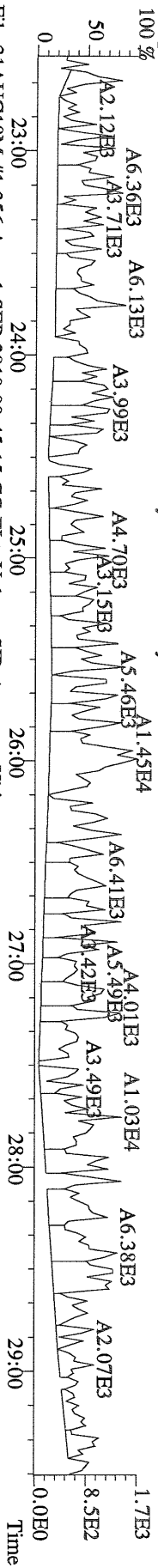
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 471.7750 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



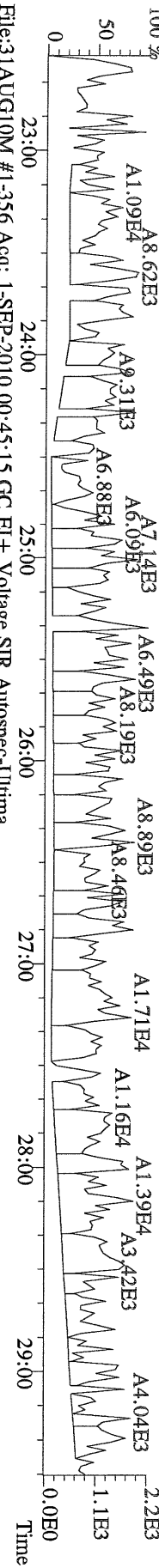
File:31AUG10M #1-347 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 LOCK MASS CHECK S:12 F:5 Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



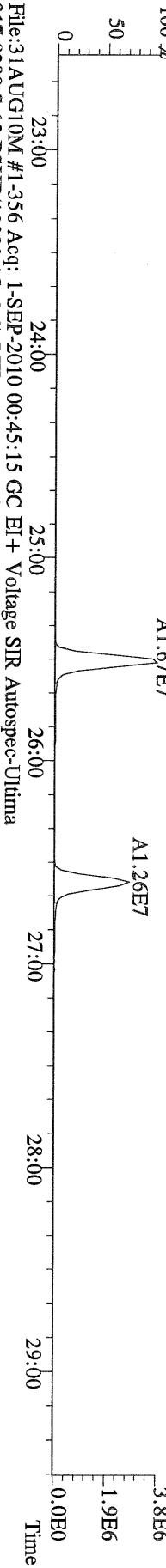
File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 303.9016 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



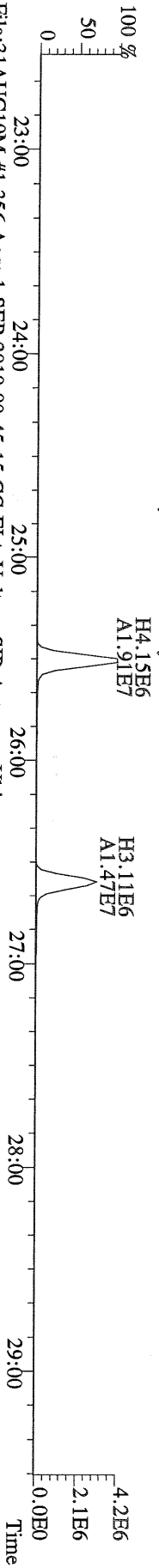
File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 305.8987 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



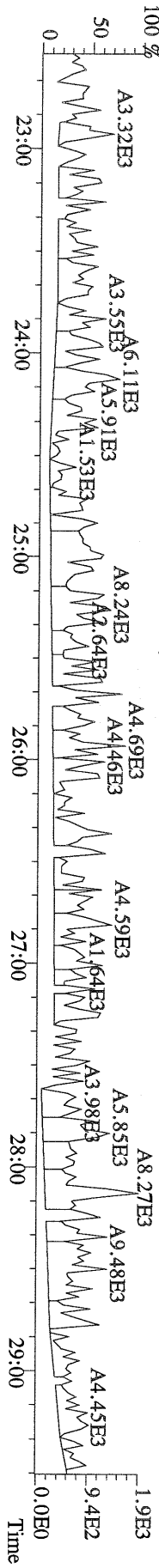
File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 315.9419 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



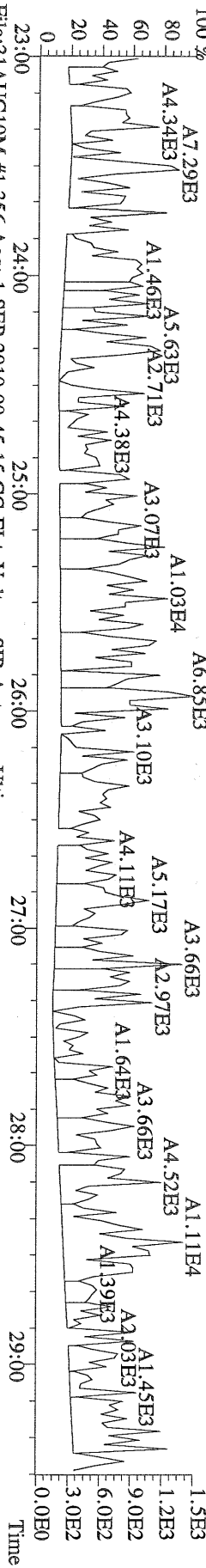
File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 317.9389 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



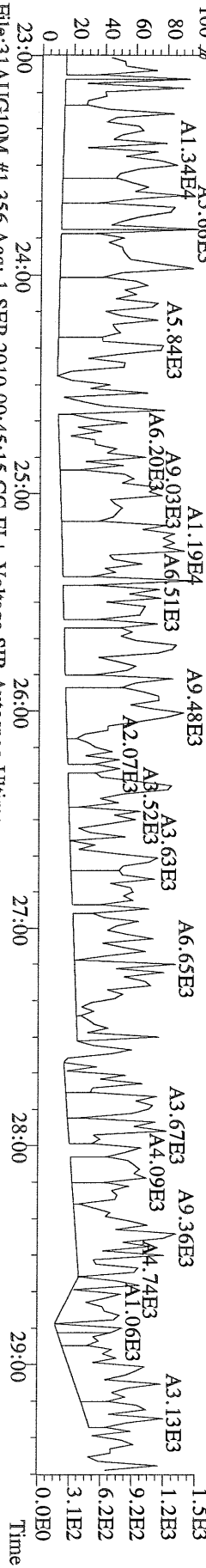
File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 375.8364 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,100,0.0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



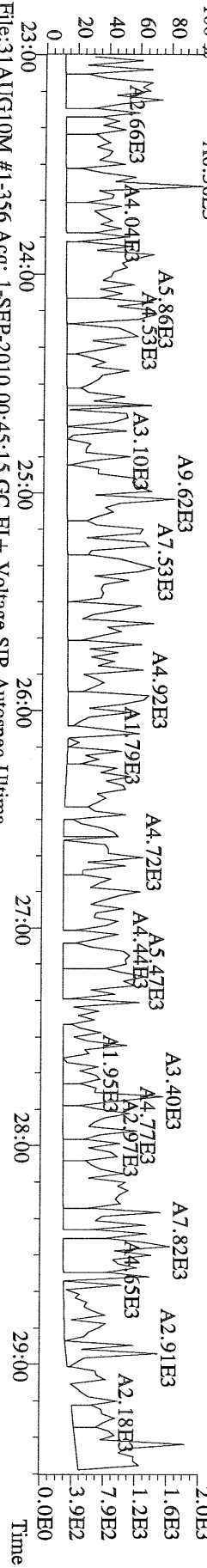
File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Utima  
 339.8597 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



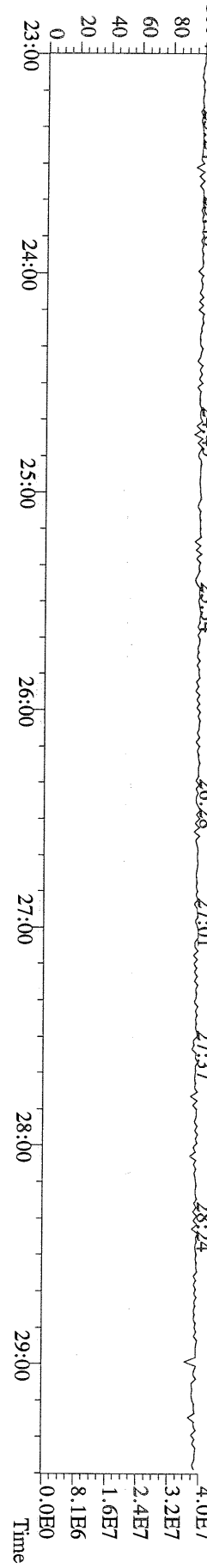
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 341.8568 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



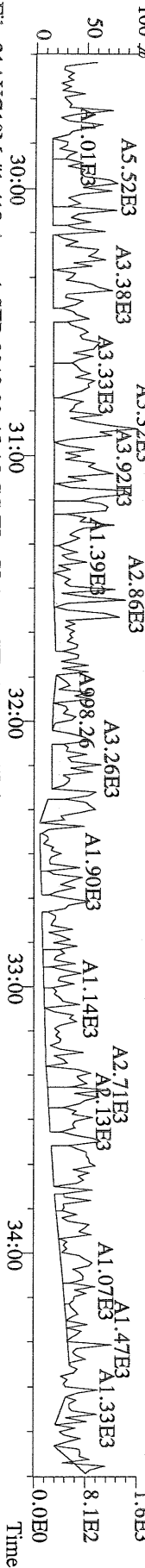
File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Utima  
 409.7974 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



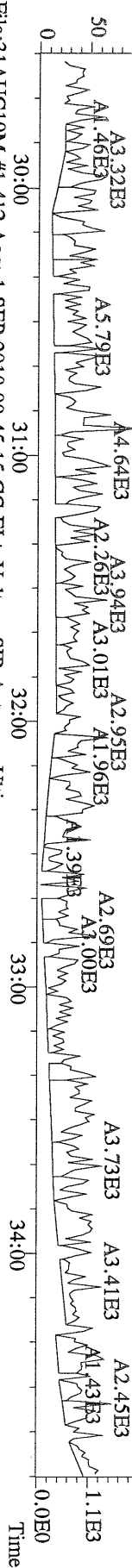
File:31AUG10M #1-356 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Utima  
 330.9792 S:12 Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



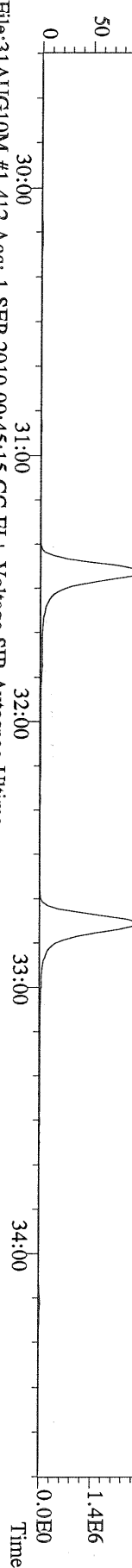
File:31AUG10M #1-412 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:12 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



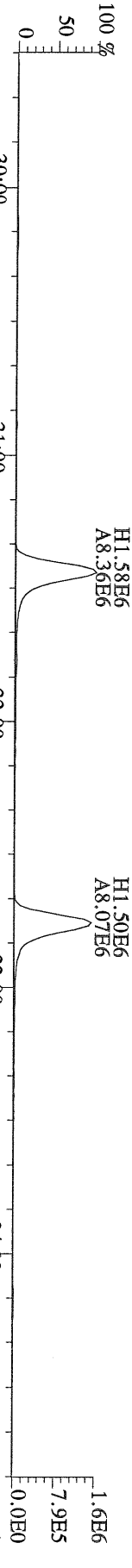
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 341.8568 S:12 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



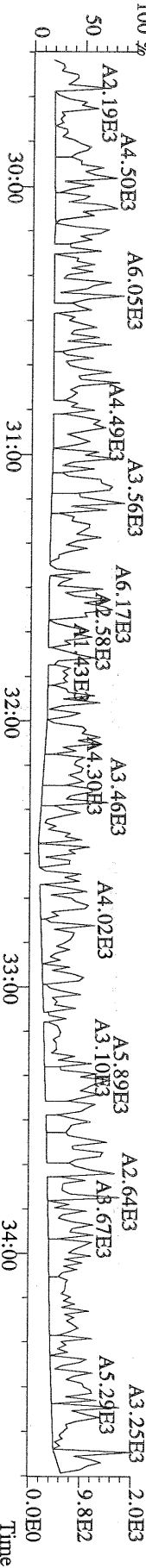
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 351.9000 S:12 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



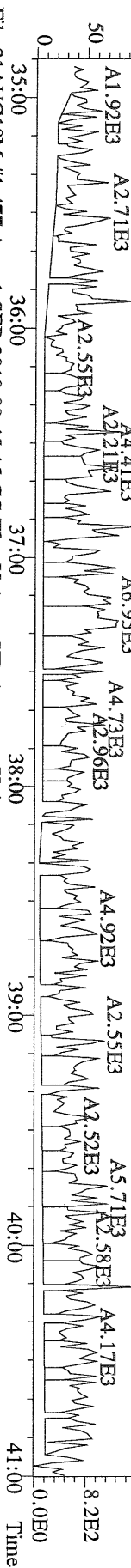
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 409.7974 S:12 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



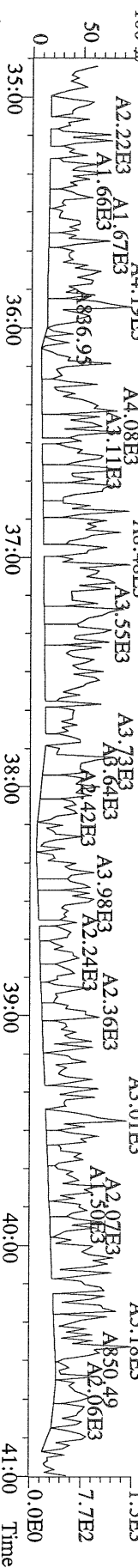
File:31AUG10M #1-412 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:12 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
 Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-477 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



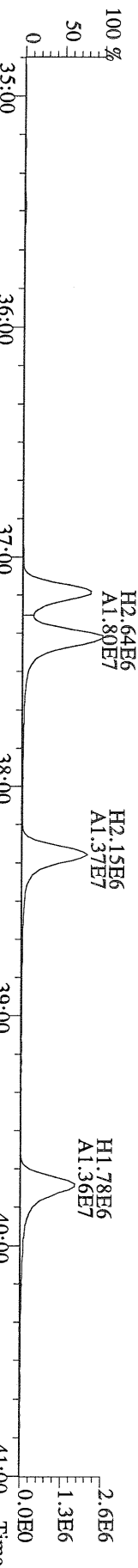
File:31AUG10M #1-477 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
375.8178 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



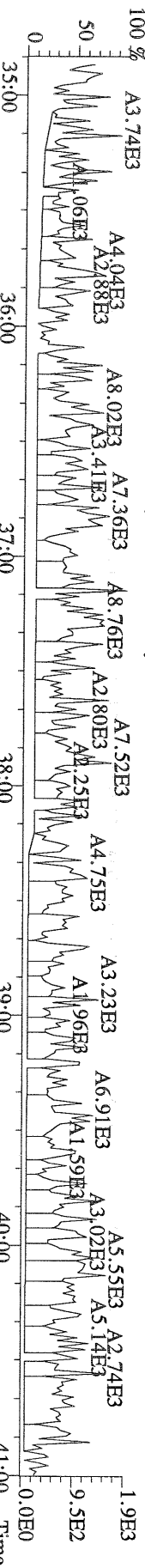
File:31AUG10M #1-477 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
383.8639 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-477 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
385.8610 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory

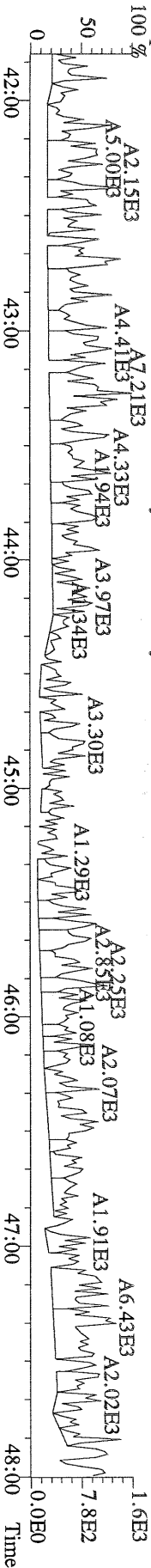


File:31AUG10M #1-477 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
445.7555 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory

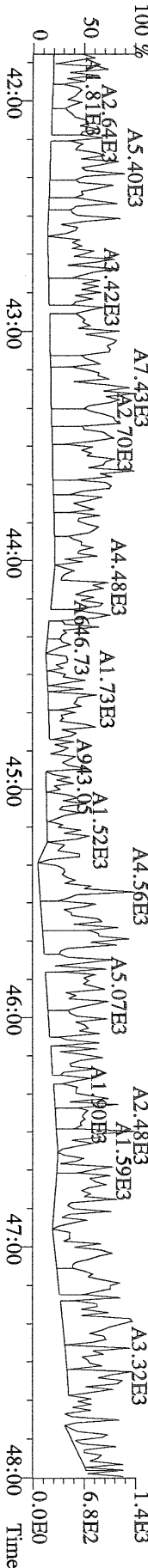




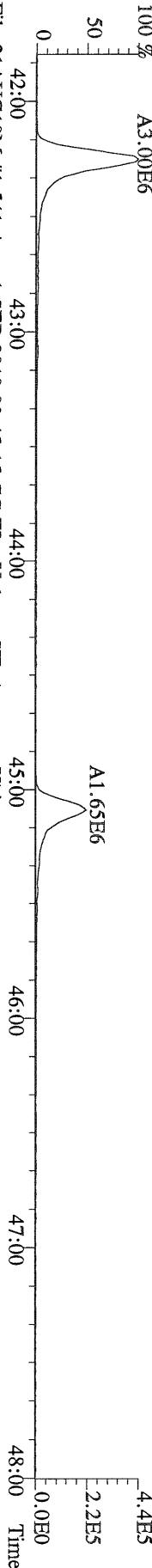
File:31AUG10M #1-541 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0%) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



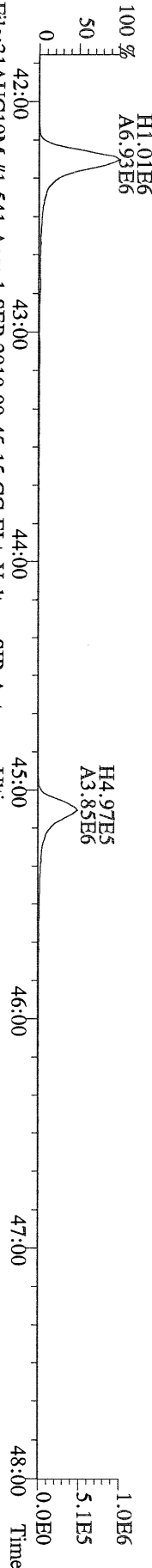
File:31AUG10M #1-541 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
409.7788 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0%) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



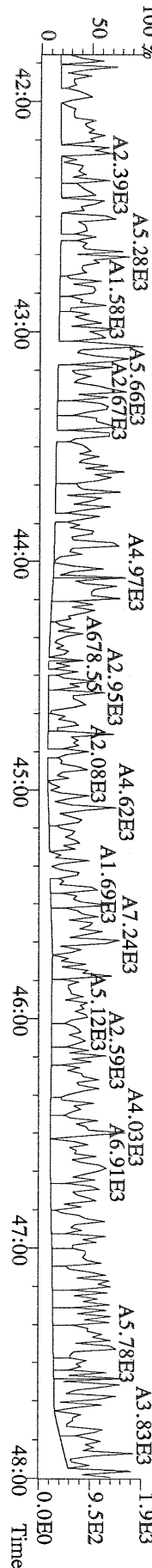
File:31AUG10M #1-541 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
417.8253 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0%) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



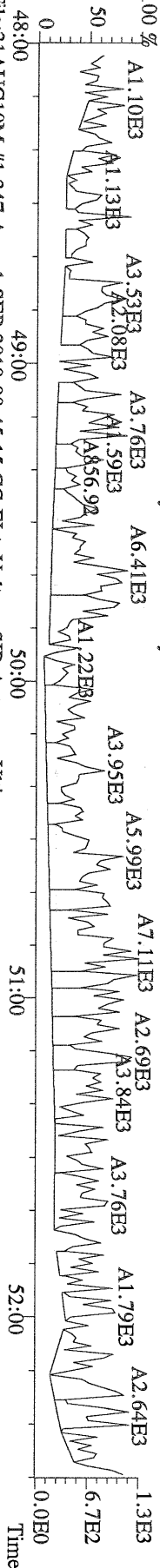
File:31AUG10M #1-541 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
419.8220 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0%) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



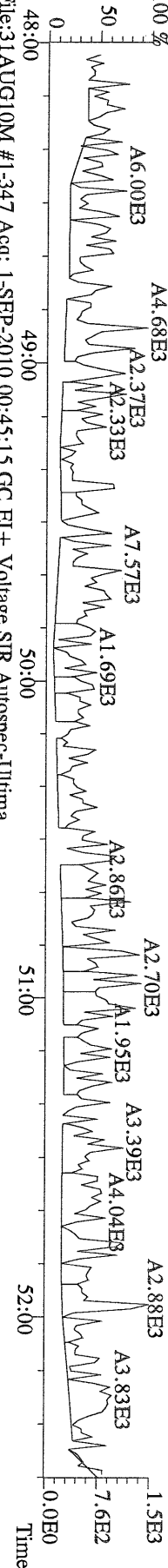
File:31AUG10M #1-541 Acq: 1-SEP-2010 00:45:15 GC EI + Voltage SIR Autospec-Ultima  
479.7165 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0,0%) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



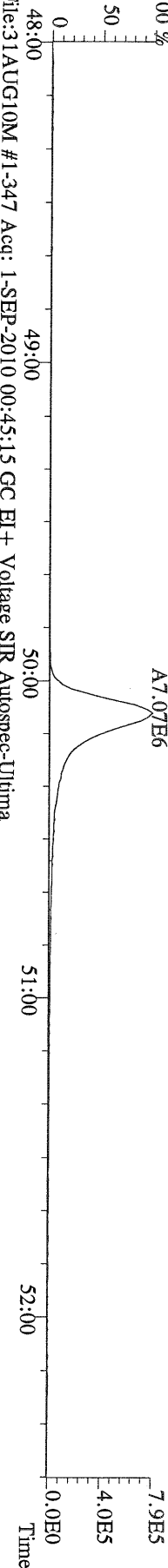
File:31AUG10M #1-347 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



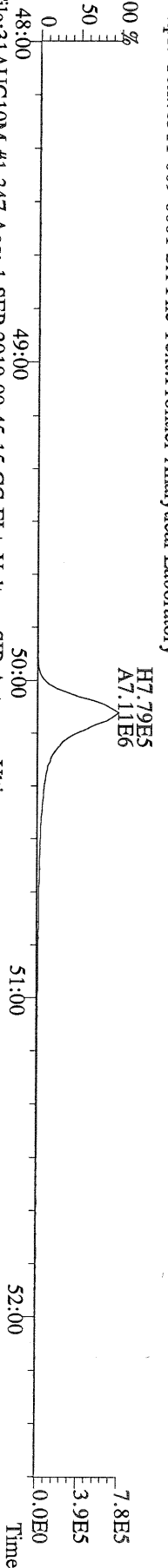
File:31AUG10M #1-347 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



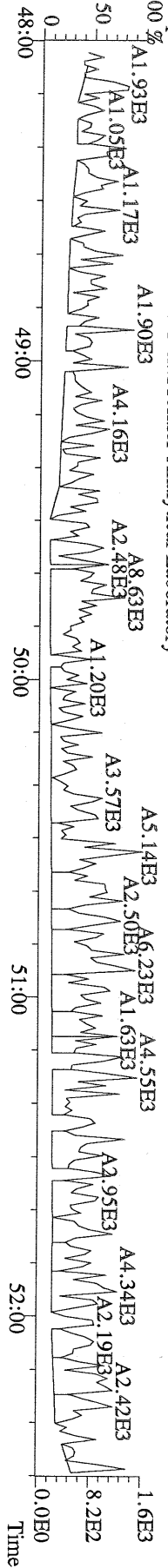
File:31AUG10M #1-347 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-347 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory



File:31AUG10M #1-347 Acq: 1-SEP-2010 00:45:15 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD  
Sample Text:6311-009-0001-SA File Text:Frontier Analytical Laboratory




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: ST082310MO

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