



July 13, 2009

Ms. Kelly Buettner
Air Toxics LTD.
180 Blue Ravine Road, Suite.B
Folsom, CA 95630-1020

Dear Ms. Buettner,

Enclosed are the results for Frontier Analytical Laboratory project **5557**. This corresponds to your project number **103PO333** and purchase order number **0906505C**. Nine PUF/filter samples were received on 6/22/2009 in good condition. On 6/25/2009 you contacted me by e-mail to request that we report and invoice the samples with an "OFF" identification separately. This report contains the results for samples 5557-003-SA, 5557-004-SA, 5557-008-SA and 5557-009-SA (Air Toxics IDs: OFF-03-061809, OFF-04-061809, OFF-04-061709 and OFF-03-061709 respectively). These samples were extracted and analyzed by EPA Method TO-9 for tetra through octa chlorinated dibenzo dioxins and furans. The 1998 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalents (TEQs) on your report. Air Toxics LTD. requested a Level IV data package and a turnaround time of fifteen business days for project **5557**.

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 photos. The Laboratory Raw Data section contains our project request sheet, a cartridge request form, 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. A copy of the entire Level IV data package on compact disk has been sent to you via OnTrac. The enclosed 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 **5557**, please feel free to contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Daniel P. Vickers

Daniel P. Vickers
Director of Air Toxics

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000001 of 000295

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: 5557

Received on: 06/22/2009

Project Due: 07/15/2009

Storage: R2

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5557-001-SA	0	103PO333	CAMU-S1-061809	EPA TO-9 D/F	PUF / Filter	06/18/2009	04:55 pm	06/25/2009
5557-002-SA	0	103PO333	CAMU-S3-061809	EPA TO-9 D/F	PUF / Filter	06/18/2009	05:15 pm	06/25/2009
5557-003-SA	0	103PO333	OFF-03-061809	EPA TO-9 D/F	PUF / Filter	06/18/2009	05:45 pm	06/25/2009
5557-004-SA	0	103PO333	OFF-04-061809	EPA TO-9 D/F	PUF / Filter	06/18/2009	04:40 pm	06/25/2009
5557-005-SA	0	103PO333	CAMU-S1-061609	EPA TO-9 D/F	PUF / Filter	06/16/2009	04:40 pm	06/23/2009
5557-006-SA	0	103PO333	CAMU-S3-061609	EPA TO-9 D/F	PUF / Filter	06/16/2009	05:55 pm	06/23/2009
5557-007-SA	0	103PO333	CAMU-S3-061609BS	EPA TO-9 D/F	PUF / Filter	06/16/2009	05:00 pm	06/23/2009
5557-008-SA	0	103PO333	OFF-04-061709	EPA TO-9 D/F	PUF / Filter	06/17/2009	06:30 pm	06/24/2009
5557-009-SA	0	103PO333	OFF-03-061709	EPA TO-9 D/F	PUF / Filter	06/17/2009	07:00 pm	06/24/2009

FAL Sample ID

Notes

5557-001-SA 'Using hand written sampling time from cartridge for our tracking purposes.'
 5557-002-SA 'Using sample ID from COC for our tracking purposes.'
 5557-005-SA 'Using hand written sampling time from cartridge and Sample ID from COC for our tracking purposes.'
 5557-006-SA 'Using hand written sampling time from cartridge and Sample ID from COC for our tracking purposes.'
 5557-007-SA 'Using sample ID from COC for our tracking purposes.'
 5557-008-SA 'Using hand written sampling time from cartridge for our tracking purposes.'
 5557-009-SA 'Using hand written sampling time from cartridge for our tracking purposes.'

EPA Method TO-9 PCDD/F



FAL ID: 5557-001-MB
Client ID: Method Blank
Matrix: PUF / Filter
Batch No: X1754

Date Extracted: 06-23-2009
Date Received: NA
Amount: 1.00 sample

ICal: AIRFAL3-6-29-09
GC Column: DB5
Units: pg/sample

Acquired: 07-09-2009
WHO TEQ: 0.00

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.839		-	0.937				
1,2,3,7,8-PeCDD	ND	1.04		-	1.05				
1,2,3,4,7,8-HxCDD	ND	4.44		-	1.70				
1,2,3,6,7,8-HxCDD	ND	4.92		-	1.73	Total TCDD	ND	0.839	
1,2,3,7,8,9-HxCDD	ND	4.52		-	1.65	Total PeCDD	ND	1.04	
1,2,3,4,6,7,8-HpCDD	ND	3.75		-	2.99	Total HxCDD	ND	4.92	
OCDD	ND	9.05		-	4.64	Total HpCDD	ND	3.75	
2,3,7,8-TCDF	ND	2.25		-	0.816				
1,2,3,7,8-PeCDF	ND	2.33		-	1.54				
2,3,4,7,8-PeCDF	ND	2.46		-	1.60				
1,2,3,4,7,8-HxCDF	ND	1.58		-	1.07				
1,2,3,6,7,8-HxCDF	ND	1.55		-	0.956				
2,3,4,6,7,8-HxCDF	ND	1.72		-	1.07				
1,2,3,7,8,9-HxCDF	ND	1.84		-	1.16	Total TCDF	ND	2.25	
1,2,3,4,6,7,8-HpCDF	ND	2.42		-	0.692	Total PeCDF	ND	2.46	
1,2,3,4,7,8,9-HpCDF	ND	3.27		-	0.919	Total HxCDF	ND	1.84	
OCDF	ND	3.05		-	2.95	Total HpCDF	ND	3.27	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.9	40.0 - 130	
13C-1,2,3,7,8-PeCDD	102	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	100	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	110	25.0 - 130	
13C-OCDD	99.5	25.0 - 130	
13C-2,3,7,8-TCDF	99.8	40.0 - 130	
13C-1,2,3,7,8-PeCDF	106	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	104	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	102	25.0 - 130	
13C-OCDF	114	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	109	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	102	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	91.7	70.0 - 130	
13C-2,3,4,7,8-PeCDF	107	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	95.8	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	128	70.0 - 130	

- 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

S Sample acceptance criteria not met

X Matrix interferences

* Result taken from dilution or reinjection

Analyst: 8
Date: 7/10/09

Reviewed By: [Signature]
Date: 7/10/09

EPA Method TO-9 PCDD/F



FAL ID: 5557-001-LCS1/LCS2
Client ID: LCS1/LCS2
Matrix: PUF / Filter

Date Extracted: 06-23-2009
Date Received: NA
LCS1 Amount: 1.00 sample
LCS2 Amount: 1.00 sample

ICal: AIRFAL3-6-29-09
Batch No: X1754
Units: ng/ml

LCS1 Acquired: 07-09-2009
LCS2 Acquired: 07-09-2009
GC Column: DB5

Compound	Amount Spiked (pg)	LCS1 Amount	LCS2 Amount	% RSD	Qual
2,3,7,8-TCDD	200	4.60	4.80	4.26	
1,2,3,7,8-PeCDD	1000	23.8	24.0	0.837	
1,2,3,4,7,8-HxCDD	1000	24.4	25.1	2.83	
1,2,3,6,7,8-HxCDD	1000	26.7	27.3	2.22	
1,2,3,7,8,9-HxCDD	1000	24.4	24.6	0.816	
1,2,3,4,6,7,8-HpCDD	1000	25.5	25.9	1.56	
OCDD	2000	53.8	53.3	0.934	
2,3,7,8-TCDF	200	5.09	5.34	4.79	
1,2,3,7,8-PeCDF	1000	24.5	25.2	2.82	
2,3,4,7,8-PeCDF	1000	25.3	26.7	5.38	
1,2,3,4,7,8-HxCDF	1000	24.9	26.0	4.32	
1,2,3,6,7,8-HxCDF	1000	26.0	26.7	2.66	
2,3,4,6,7,8-HxCDF	1000	23.8	25.9	8.45	
1,2,3,7,8,9-HxCDF	1000	26.5	28.1	5.86	
1,2,3,4,6,7,8-HpCDF	1000	25.9	25.9	0.00	
1,2,3,4,7,8,9-HpCDF	1000	31.2	33.3	6.51	
OCDF	2000	53.5	54.8	2.40	
Internal Standards		% Rec	% Rec	QC Limits	
13C-2,3,7,8-TCDD	4000	91.5	94.5	40.0 - 130	
13C-1,2,3,7,8-PeCDD	4000	102	103	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	4000	98.4	102	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	4000	99.9	102	25.0 - 130	
13C-OCDD	8000	73.3	85.4	25.0 - 130	
13C-2,3,7,8-TCDF	4000	96.7	99.7	40.0 - 130	
13C-1,2,3,7,8-PeCDF	4000	102	102	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	4000	103	104	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	4000	93.7	99.2	25.0 - 130	
13C-OCDF	8000	89.9	98.9	25.0 - 130	
Cleanup Surrogate					
13C-1,2,3,7,8,9-HxCDF	4000	106	107	40.0 - 130	
Pre Spike Surrogate		% Rec	% Rec	QC Limits	
37Cl-2,3,7,8-TCDD	4000	101	102	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	4000	89.4	96.3	70.0 - 130	
13C-2,3,4,7,8-PeCDF	4000	103	111	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	4000	95.0	99.2	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	4000	119	126	70.0 - 130	

Analyst:
Date: 7/10/09

Reviewed By:
Date: 7/10/09

EPA Method TO-9 PCDD/F



FAL ID: 5557-003-SA
Client ID: OFF-03-061809
Matrix: PUF / Filter
Batch No: X1754

Date Extracted: 06-23-2009
Date Received: 06-22-2009
Amount: 1.00 sample

ICal: AIRFAL3-6-29-09
GC Column: DB5
Units: pg/sample

Acquired: 07-09-2009
WHO TEQ: 0.00253

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	2.14		-	0.937				
1,2,3,7,8-PeCDD	ND	1.76		-	1.05				
1,2,3,4,7,8-HxCDD	ND	3.05		-	1.70				
1,2,3,6,7,8-HxCDD	ND	3.38		-	1.73	Total TCDD	ND	2.14	
1,2,3,7,8,9-HxCDD	ND	3.11		-	1.65	Total PeCDD	ND	1.76	
1,2,3,4,6,7,8-HpCDD	ND	8.55		-	2.99	Total HxCDD	ND	3.38	
OCDD	25.3	-	J	0.00253	4.64	Total HpCDD	ND	8.55	
2,3,7,8-TCDF	ND	2.37		-	0.816				
1,2,3,7,8-PeCDF	ND	3.03		-	1.54				
2,3,4,7,8-PeCDF	ND	3.20		-	1.60				
1,2,3,4,7,8-HxCDF	ND	1.71		-	1.07				
1,2,3,6,7,8-HxCDF	ND	1.68		-	0.956				
2,3,4,6,7,8-HxCDF	ND	1.86		-	1.07				
1,2,3,7,8,9-HxCDF	ND	1.99		-	1.16	Total TCDF	ND	2.37	
1,2,3,4,6,7,8-HpCDF	ND	3.38		-	0.692	Total PeCDF	ND	3.20	
1,2,3,4,7,8,9-HpCDF	ND	4.57		-	0.919	Total HxCDF	ND	1.99	
OCDF	ND	10.0		-	2.95	Total HpCDF	ND	4.57	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	97.7	40.0 - 130	
13C-1,2,3,7,8-PeCDD	103	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	101	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	98.9	25.0 - 130	
13C-OCDD	75.5	25.0 - 130	
13C-2,3,7,8-TCDF	97.0	40.0 - 130	
13C-1,2,3,7,8-PeCDF	106	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	97.3	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	86.7	25.0 - 130	
13C-OCDF	83.8	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	104	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	103	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	94.2	70.0 - 130	
13C-2,3,4,7,8-PeCDF	106	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	96.7	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	126	70.0 - 130	

- 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
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst:
Date: 7/10/09

Reviewed By:
Date: 7/10/09

EPA Method TO-9 PCDD/F



FAL ID: 5557-004-SA
Client ID: OFF-04-061809
Matrix: PUF / Filter
Batch No: X1754

Date Extracted: 06-23-2009
Date Received: 06-22-2009
Amount: 1.00 sample

ICal: AIRFAL3-6-29-09
GC Column: DB5
Units: pg/sample

Acquired: 07-09-2009
WHO TEQ: 1.83

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	2.35		-	0.937				
1,2,3,7,8-PeCDD	ND	2.88		-	1.05				
1,2,3,4,7,8-HxCDD	ND	6.58		-	1.70				
1,2,3,6,7,8-HxCDD	ND	7.29		-	1.73	Total TCDD	ND	2.35	
1,2,3,7,8,9-HxCDD	ND	6.69		-	1.65	Total PeCDD	ND	2.88	
1,2,3,4,6,7,8-HpCDD	76.0	-		0.760	2.99	Total HxCDD	34.7	-	J
OCDD	545	-		0.0545	4.64	Total HpCDD	162	-	
2,3,7,8-TCDF	ND	4.05		-	0.816				
1,2,3,7,8-PeCDF	ND	3.38		-	1.54				
2,3,4,7,8-PeCDF	ND	3.57		-	1.60				
1,2,3,4,7,8-HxCDF	6.44	-	J	0.644	1.07				
1,2,3,6,7,8-HxCDF	ND	3.14		-	0.956				
2,3,4,6,7,8-HxCDF	ND	3.47		-	1.07				
1,2,3,7,8,9-HxCDF	ND	3.73		-	1.16	Total TCDF	ND	4.05	
1,2,3,4,6,7,8-HpCDF	36.7	-	J	0.367	0.692	Total PeCDF	11.9	-	J
1,2,3,4,7,8,9-HpCDF	ND	3.92		-	0.919	Total HxCDF	60.6	-	
OCDF	63.8	-	J	0.00639	2.95	Total HpCDF	80.2	-	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	91.8	40.0 - 130	
13C-1,2,3,7,8-PeCDD	100	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	99.7	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	97.4	25.0 - 130	
13C-OCDD	77.7	25.0 - 130	
13C-2,3,7,8-TCDF	96.6	40.0 - 130	
13C-1,2,3,7,8-PeCDF	95.2	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	92.6	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	80.1	25.0 - 130	
13C-OCDF	84.0	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	91.0	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	98.9	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	86.1	70.0 - 130	
13C-2,3,4,7,8-PeCDF	106	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	93.7	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	117	70.0 - 130	

- 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
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: k
Date: 7/10/09

Reviewed By:
Date: 7/10/09

EPA Method TO-9 PCDD/F



FAL ID: 5557-008-SA
Client ID: OFF-04-061709
Matrix: PUF / Filter
Batch No: X1754

Date Extracted: 06-23-2009
Date Received: 06-22-2009
Amount: 1.00 sample

ICat: AIRFAL3-6-29-09
GC Column: DB5
Units: pg/sample

Acquired: 07-09-2009
WHO TEQ: 3.46

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	2.59		-	0.937				
1,2,3,7,8-PeCDD	ND	4.02		-	1.05				
1,2,3,4,7,8-HxCDD	ND	4.21		-	1.70				
1,2,3,6,7,8-HxCDD	6.46	-	J	0.646	1.73	Total TCDD	ND	2.59	
1,2,3,7,8,9-HxCDD	ND	4.28		-	1.65	Total PeCDD	ND	4.02	
1,2,3,4,6,7,8-HpCDD	59.4	-		0.594	2.99	Total HxCDD	37.8	-	J
OCDD	494	-		0.0494	4.64	Total HpCDD	129	-	
2,3,7,8-TCDF	ND	4.52		-	0.816				
1,2,3,7,8-PeCDF	ND	5.56		-	1.54				
2,3,4,7,8-PeCDF	ND	5.88		-	1.60				
1,2,3,4,7,8-HxCDF	9.91	-	J	0.991	1.07	Total TCDF	ND	6.33	
1,2,3,6,7,8-HxCDF	6.69	-	J	0.669	0.956	Total PeCDF	17.1	-	J
2,3,4,6,7,8-HxCDF	ND	3.91		-	1.07	Total HxCDF	77.7	-	
1,2,3,7,8,9-HxCDF	ND	4.19		-	1.16	Total HpCDF	86.9	-	
1,2,3,4,6,7,8-HpCDF	41.0	-	J	0.410	0.692				
1,2,3,4,7,8,9-HpCDF	9.33	-	J	0.0933	0.919				
OCDF	85.3	-	J	0.00853	2.95				

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	83.1	40.0 - 130	
13C-1,2,3,7,8-PeCDD	86.7	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	109	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	103	25.0 - 130	
13C-OCDD	70.0	25.0 - 130	
13C-2,3,7,8-TCDF	84.3	40.0 - 130	
13C-1,2,3,7,8-PeCDF	93.4	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	103	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	88.0	25.0 - 130	
13C-OCDF	78.4	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	83.5	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	103	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	92.9	70.0 - 130	
13C-2,3,4,7,8-PeCDF	97.6	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	99.7	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	114	70.0 - 130	

- 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
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 8
Date: 7/10/09

Reviewed By: 8
Date: 7/10/09

EPA Method TO-9 PCDD/F



FAL ID: 5557-009-SA
Client ID: OFF-03-061709
Matrix: PUF / Filter
Batch No: X1754

Date Extracted: 06-23-2009
Date Received: 06-22-2009
Amount: 1.00 sample

ICal: AIRFAL3-6-29-09
GC Column: DB5
Units: pg/sample

Acquired: 07-10-2009
WHO TEQ: 0.00297

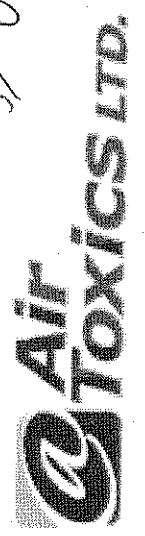
Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	2.42		-	0.937				
1,2,3,7,8-PeCDD	ND	2.58		-	1.05				
1,2,3,4,7,8-HxCDD	ND	3.99		-	1.70				
1,2,3,6,7,8-HxCDD	ND	4.42		-	1.73	Total TCDD	ND	2.42	
1,2,3,7,8,9-HxCDD	ND	4.06		-	1.65	Total PeCDD	ND	2.58	
1,2,3,4,6,7,8-HpCDD	ND	8.77		-	2.99	Total HxCDD	ND	4.42	
OCDD	ND	14.3		-	4.64	Total HpCDD	ND	8.77	
2,3,7,8-TCDF	ND	4.55		-	0.816				
1,2,3,7,8-PeCDF	ND	4.02		-	1.54				
2,3,4,7,8-PeCDF	ND	4.25		-	1.60				
1,2,3,4,7,8-HxCDF	ND	4.92		-	1.07				
1,2,3,6,7,8-HxCDF	ND	4.82		-	0.956				
2,3,4,6,7,8-HxCDF	ND	5.33		-	1.07				
1,2,3,7,8,9-HxCDF	ND	5.72		-	1.16	Total TCDF	ND	4.55	
1,2,3,4,6,7,8-HpCDF	ND	7.32		-	0.692	Total PeCDF	ND	4.25	
1,2,3,4,7,8,9-HpCDF	ND	9.89		-	0.919	Total HxCDF	ND	5.72	
OCDF	29.7	-	J	0.00297	2.95	Total HpCDF	ND	9.89	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	90.6	40.0 - 130	
13C-1,2,3,7,8-PeCDD	93.8	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	104	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	96.0	25.0 - 130	
13C-OCDD	64.6	25.0 - 130	
13C-2,3,7,8-TCDF	87.1	40.0 - 130	
13C-1,2,3,7,8-PeCDF	98.2	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	96.2	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	81.2	25.0 - 130	
13C-OCDF	71.8	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	92.2	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	100	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	92.5	70.0 - 130	
13C-2,3,4,7,8-PeCDF	103	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	98.3	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	114	70.0 - 130	

- 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
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: 8
Date: 7/10/09

Reviewed By: [Signature]
Date: 7/10/09



espresso

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection handling or shipping of these samples. Relinquished signature also indicated agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

AIR TOXICS LTD.
180 BLUE RAVINE RD, SUITE B
FOLSOM, CA 95630-1020
916-985-1000 main line
916-985-1020 fax line

Chain-of-Custody Record

Contact Person Kelly Buettner Company Air Toxics Ltd. Address 180-B Blue Ravine Zip 95630 Phone 916-605-3356 FAX 916-985-1020 State CA City Folsom		Project Information: P.O. # 0906505C Project # 103PO333 Project Name BMI		Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify		Pressurized by: Date: Press. Gas: N2 He	
Collected By: (Signature)		Date & Time		Analysis Requested		Canister Pressure/Vacuum Initial Final (psi)	
Lab I.D.	Field Sample I.D.	Canister I.D.	Date & Time	Analysis Requested	Initial	Final	Receipt
	CAMU-S1-061809		6/18/09 1640	TO-9 16:55	"Hg		
	CAMU-S3-061809		6/18/09 1715	TO-9 x	"Hg		
	OFF-03-061809		6/18/09 1745	TO-9	"Hg		
	OFF-04-061809		6/18/09 1640	TO-9	"Hg		
	CAMU-S1-061609		6/16/09 1755	TO-9 y 16:40	"Hg		
	CAMU-S3-061609		6/16/09 1755	TO-9 y 16:55	"Hg		
	CAMU-S3-061609BS		6/16/09 1700	TO-9 y	"Hg		
	OFF-04-061709		6/17/09 1821	TO-9	"Hg		
	OFF-03-061709		6/17/09 1837	TO-9 18:30	"Hg		
				19:00	"Hg		
Relinquished By: (Signature) Date/Time 6-22-09 9:26		Received By: (Signature) Date/Time Dan Ucker 6/22/09 9:26 AM		Notes: K.buettner@airtoxics.com			
Relinquished By: (Signature) Date/Time 6-22-09 9:26		Received By: (Signature) Date/Time					
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time					
Shipper Name		Air Bill #		Temp @		Custody Seals	
Work Order #				Condition		Yes No None	
Lab Use Only							

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: 5557

Client:	Air Toxics
Client Project ID:	103PO333
Date Received:	06/22/2009
Time Received:	09:26 am
Received By:	DV
Logged In By:	KZ
# of Samples Received:	9
Duplicates:	0
Storage Location:	R2

Method of Delivery:	Courier
Tracking Number:	NA
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	06/23/2009
Adequate Sample Volume	Yes
Anomalies or additional comments:	

Air Toxics

5557 0°
Refranchising signature in this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, and international laws, or liability with client signature. Toxics Limited in handling, or

AIR TOXICS LTD.
150 BLUE RAVINE RD SUITE 11
FOLSOM, CA 95640-1120
916-985-1000 main line
916-985-1020 fax line

0906505-02A C/
Not Found

0906505-03A C/
Not Found

Frontier Analytical Laboratory
5557-001-SA

Client ID: CAMU-51-061809
Storage: R2 (01 of 01)

CAMU-51-061809

T09 6/18/09 11:55

1215

Frontier Analytical Laboratory
5557-002-SA

Client ID: CAMU-53-001809
Storage: R2 (01 of 01)

CAMU-53-001809

T09 6/18/09

1215



Chain-of-Custody Record

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection handling or shipping of these samples. Relinquished signature also indicated agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

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180 BLUE RAVINE RD, SUITE B
FOLSOM, CA 95630-1020
916-985-1000 main line
916-985-1020 fax line

Page 1 of 1

Contact Person Kelly Buettner
Company Air Toxics Ltd.
Address 180-B Blue Ravine
7th DECEMBER

City Folsom

State CA

Project Information:

P.O. # 0906505C
Project # 103PO333
District Name PMI

Turn Around Time:

☒ Normal
☐ Rush

Pressurized by:

Date:
Press. Gas:

0906505-078 C/
Not Found

Frontier Analytical Laboratory
5557-003-SA
Client ID: OFF-04-061809
(OT of 01)

0906505-09A C/
Not Found

Frontier Analytical Laboratory
5557-004-SA
Client ID: OFF-04-061809



Chain-of-Custody Record

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AIR TOXICS LTD.
180 BLUE RAVINE RD. SUITE D
DUBLIN, CA 95618-1030
916-955-1000 main line
916-955-1020 fax line

Contact Person Kelly Buettner
Company Air Toxics Ltd.
Address 180-B Blue Ravine
Zip 95630
Phone 916-605-3356

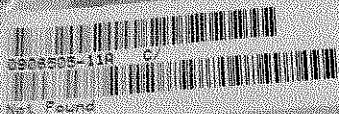
Project Information:

Turn Around Time:

☒ Normal

Prepared by:

Date:



Not Found

Frontier Analytical Laboratory
5557-005-SA
Client ID: CAMU-S1-061609
Storage: R2 (01 of 01)

CAMUS1-061609
709

6/14/09 1640

CAMUS3-061609
709

1653
Frontier Analytical Laboratory
5557-006-SA
Client ID: CAMU-S3-061609
Storage: R2 (01 of 01)



CAMUS3-061609

709

6/10/09 1653



Chain-of-Custody Record

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection handling or shipping of these samples. Relinquished signature also indicated agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

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180 BLUE RAVINE RD. SUITE B
FOLSOM, CA 95630-1020
916-985-1000 main line
916-985-1020 fax line

Page 1 of 1

Contact Person Kelly Buettner Company Air Toxics Ltd. Address 180-B Blue Ravine Zip 95630 Phone 916-005-3356 City Folsom State CA FAX 916-985-1020		Project Information: P.O. # 0906505C Project # 103PO333 Project Name BMI		Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify _____		Pressurized by: Date: _____ Press. Gas: N2 He	
Collected By (Signature) _____							
Lab	Field Sample I.D.	Canister	Date & Time	Analysis Requested	Canister Pressure/Vacuum		
					Initial	Final	Receipt Final

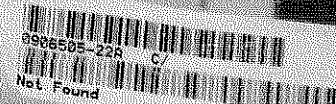


Frontier Analytical Laboratory
5557-007-SA
Client ID: CAMU-33-001609B5
Storage: R2 (1 of 01)

CAMU-33-001609B5

T09

6/17/09



Frontier Analytical Laboratory
5557-008-SA
Client ID: OFF-04-061709
Storage: R2 (1 of 01)

OFF-04-061709

T09

6/17/09 1830

respect to the collection, handling, or shipping of these samples. Relinquished signature also indicated agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

916-985-1020 fax line

Chain-of-Custody Record

Contact Person Kelly Buettner Company Air Toxics Ltd. Address 180-B Blue Ravine Zip 95630 Phone 916-605-3356		City Folsom State CA	Project Information: P.O. # 0906505C Project # 103PO333 Project Name BMI	Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush Specify	Pressurized by: Date: Press. Gas: N2 He
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Frontier Analytical Laboratory
5557-009-SA
 Client ID: OFF-03-061709
 Storage: R2 (01 of 01)

OFF-03-061709

TPM 6/17/09

181900

PROJECT REQUEST SHEET

Project #: 5557 Sample #: 1 - 9 Client Manager: BS
Client: Air Toxics Hold Time: 06/23/2009
Matrix: PUF / Filter Extraction Batch: 1754 Due Date: 07/15/2009
Method: EPA TO-9 D/F Storage: R2
SOP: SOPs: EP6A Rev.4 IP6A Rev.2

COMMENTS/INSTRUCTIONS:

Report samples 5557-003-SA, 5557-004-SA, 5557-008-SA $\frac{1}{2}$ 5557-009-SA
on one report and report the remaining five samples on another
report. Also invoice separately as per above. SN 6/25/09

Results: 5557
5557TODF

Extract/s located in box: "NO PINING WAY"

Standards: 5557

Instrument:

DB5

DB225

DB1

Other

FAC-3

Fall

Cartridge Request Form

Delivery Date Requested: 6/12/2009

invoiced with FAL Project 5528

Client Contact: Kelly Buettner
Company Name: Air Toxics LTD.
Company Address: 180 Blue Ravine Road
Folsom, CA 95630
Company Phone: (916) 985-1000 Ext.1025
Company fax: (916) 985-1020
Company PO #: Reference Quote Number 2347

Delivery Address/Contact (If different from above)

Contact Name: Ms. Becki Dano
Site Name: Weston Solutions
Site Address: 110 West Warm Springs Road
Henderson, NV 89011
Site Phone: (702) 641-8660

Request Information

Check all that apply and enter in Quantity Needed:

- ☐ MM5 Cartridges.....Quantity: DN 6/11/09
☒ PUF Cartridges.....Quantity: 59
☐ PUF/XAD Cartridges.....Quantity: _____

Number/Size/type of filters Required: 5 quartz fiber 102mm filters (Lot Number: 894862)

Number of Petri dishes requested (if available): 1

Method/s Requested: EPA Method TO-9

Preparation Information

XAD Lot Number: N/A

PUF Lot Number: 52109
DN 6/11/09

Pre-Sampling Spike Amount/ID: 25ul of Air-PS (090121A) (2)

Preparation Chemist Initials: DN

Preparation/Spike Date: 6/11/09

Spike Witness Initials: GN/6/6
(5) (9)

Special Instructions: _____

Delivery Information

Date Shipped: 6.11.09
Carrier: Fed-Ex
Service Requested: std overnight
Air Bill Number: 7966 8521 2938

20165

EXTRACTION SHEET

Project #: 5557 Extraction Date: 2009-06-23 Extraction Chemist: GN

Method/Analysis: EPA TO-9 D/F

Procedure: SOX Solvent: Toluene

Sample ID	PUF Lot	Filter Lot	IS	NS	CSS
			Amt: 25.0uL ID: 090121B Vial: <u>GN 6/23/09</u> Chemist/Witness/Date	Amt: 10.0uL ID: 090121C Vial: 2 Chemist/Witness/Date	Amt: 25.0uL ID: 090121D Vial: 3 Chemist/Witness/Date
1754-001-0001-MB*	52109	894862	GN 6/23/09	NA	GN 6/26/09
1754-001-0001-LC1*	52109	894862		GN 6/23/09	
1754-001-0001-LC2*	52109	894862		↓	
5557-001-0001-SA	NO LABEL TO VERIFY	NO LABEL TO VERIFY		NA	
5557-002-0001-SA	"	"			
5557-003-0001-SA	"	"			
5557-004-0001-SA	"	"			
5557-005-0001-SA	"	"			
5557-006-0001-SA	"	"			
5557-007-0001-SA	"	"			
5557-008-0001-SA	"	"			
5557-009-0001-SA	"	"	↓	↓	↓

AX-21 Charcoal Cleaned	033109	Acetone	49098	Acid Alumina	08623DJ	Hexane	49063
Hydrochloric Acid	B08505	Methanol	090272	Methylene Chloride (DCM)	49105	Silica Gel	TA1493434
Sodium Hydroxide	8250	Sodium Sulfate	48273845	Sulfuric Acid	090248	Tetradecane	072385
Toluene	49063	Water	49083	C-18 Empore Discs	320483	Cyclohexane	48149

Comments: *Spike 25ul-Air-PS(090121A) v3 by GN 6/23/09. witness GG

CLEANUP SHEET

Project #: 5557

Method/Analysis: EPA TO-9 D/F

Splits: 6N 6/23/09 ¹~~0~~ Split Date: 6/26/09 ~~N/A~~ 6N 6/23/09 Final Volume: 20.0uL

[illegible]

Comments:

FAL ID: 1754-001-0001-MB	Filename: 09JUL09M	Sam: 4	Acquired: 9-JUL-09 16:20:15	ICal: AIRFAL3-6-29-09
Client ID: Method Blank			ConCal: ST070909M1	EndCal: ST070909M2
Results:	GC Column: DB5	Amount: 1.000		NATO 1989 Tox: 0.00

NATO 1989 Tox: 0.00
WHO 1998 Tox: 0.00

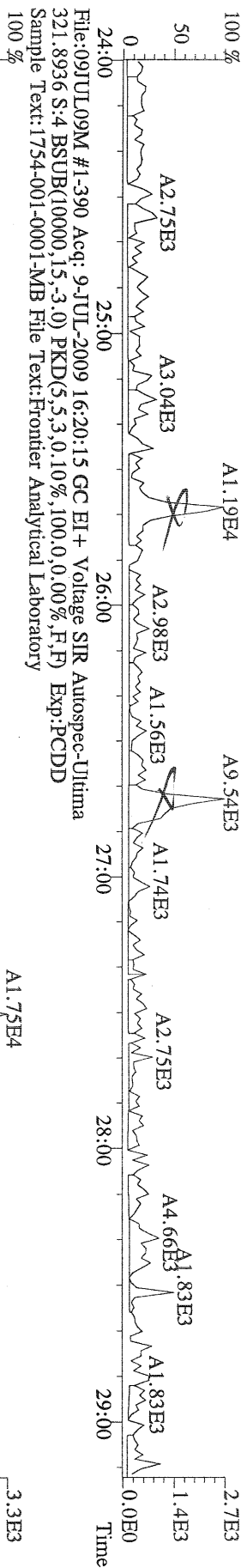
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
2,3,7,8-TCDD	*	* n	NotFnd	1.14	*		2.50	319	0.839	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.14	*		2.50	184	1.04	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	840	4.44	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.24	*		2.50	840	4.92	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.35	*		2.50	840	4.52	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.15	*		2.50	657	3.75	
OCDD	*	* n	NotFnd	1.43	*		2.50	908	9.05	
2,3,7,8-TCDF	*	* n	NotFnd	1.14	*		2.50	1450	2.25	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.90	*		2.50	570	2.33	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.86	*		2.50	570	2.46	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	628	1.58	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.04	*		2.50	628	1.55	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.94	*		2.50	628	1.72	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.88	*		2.50	628	1.84	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.51	*		2.50	784	2.42	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.11	*		2.50	784	3.27	
OCDF	*	* n	NotFnd	0.87	*		2.50	400	3.05	
13C-2,3,7,8-TCDD	2.67e+07	0.79 y	27:29	1.21	3720					Rec 92.9
13C-1,2,3,7,8-PeCDD	2.02e+07	1.76 y	33:18	0.83	4090					102
13C-1,2,3,6,7,8-HxCDD	1.77e+07	1.24 y	38:51	0.99	4000					100.0
13C-1,2,3,4,6,7,8-HpCDD	2.02e+07	1.06 y	44:18	1.03	4400					110
13C-OCDD	2.26e+07	0.97 y	49:55	0.64	7960					99.5
13C-2,3,7,8-TCDF	4.51e+07	0.88 y	26:44	1.33	3990					99.8
13C-1,2,3,7,8-PeCDF	3.49e+07	1.74 y	31:34	0.96	4250					106
13C-1,2,3,6,7,8-HxCDF	3.25e+07	0.53 y	37:29	1.75	4170					104
13C-1,2,3,4,6,7,8-HpCDF	1.81e+07	0.48 y	42:24	1.00	4060					102
13C-OCDF	4.52e+07	0.96 y	50:17	1.11	9140					114
13C-1,2,3,7,8,9-HxCDF	2.72e+07	0.53 y	39:52	1.40	4370					109
37Cl-2,3,7,8-TCDD	1.51e+07		27:30	0.56	4080					102
13C-1,2,3,4,7,8-HxCDD	1.71e+07	1.23 y	38:41	1.05	3670					91.7
13C-2,3,4,7,8-PeCDF	3.48e+07	1.72 y	32:53	0.93	4280					107
13C-1,2,3,4,7,8-HxCDF	3.10e+07	0.52 y	37:17	1.00	3830					95.8
13C-1,2,3,4,7,8,9-HpCDF	1.91e+07	0.48 y	45:13	0.82	5110					128
13C-1,2,3,4-TCDD	2.37e+07	0.79 y	26:55	-	56.8					
13C-2,3,7,8-TCDF	3.40e+07	0.88 y	25:39	-	50.5					
13C-1,2,3,7,8,9-HxCDD	1.78e+07	1.22 y	39:18	-	60.4					
Total Tetra-Dioxins	*		NotFnd	1.14	*		Fac 2.50	Noise 319	DL 0.839	#Hom 0
Total Penta-Dioxins	*		NotFnd	1.14	*		2.50	184	1.04	0
Total Hexa-Dioxins	*		NotFnd	1.32	*		2.50	840	4.92	0
Total Hepta-Dioxins	*		NotFnd	1.15	*		2.50	657	3.75	0
Total Tetra-Furans	*		NotFnd	1.14	*		2.50	1450	2.25	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.88	*		2.50	570	2.46	0 PeCDF 0.00
Total Penta-Furans	*		NotFnd	0.88	*		2.50	570	2.46	0

Analyst:

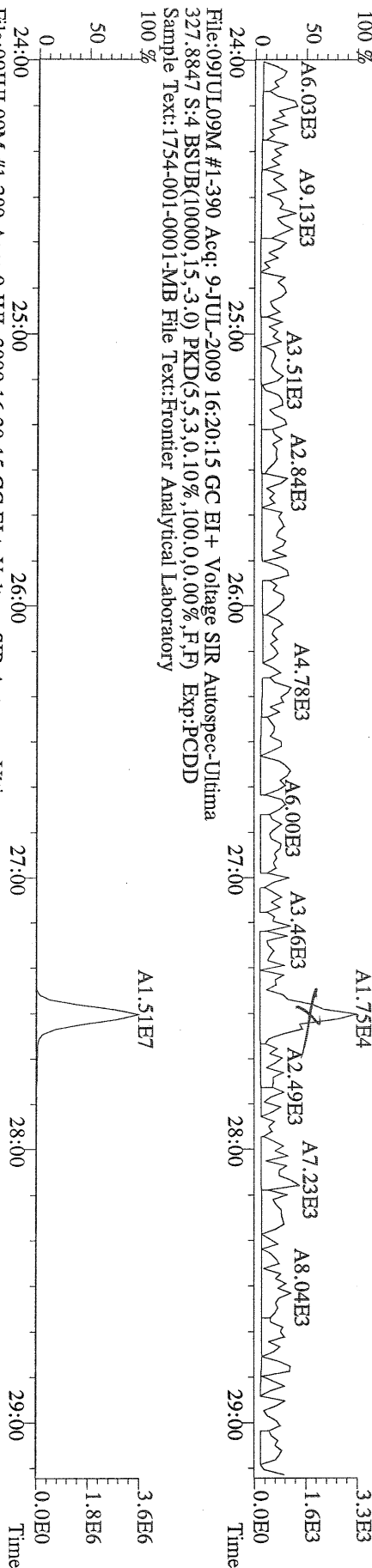
Date:

7/10/09

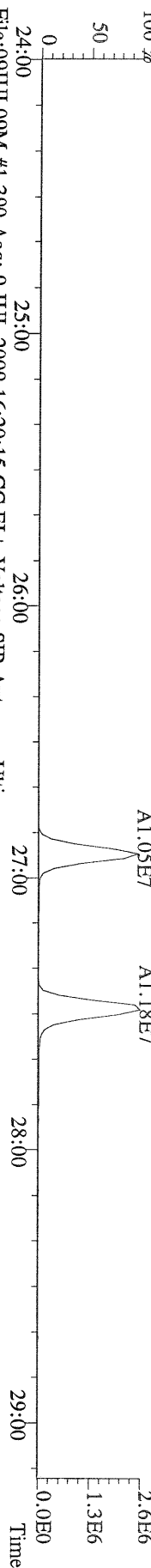
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319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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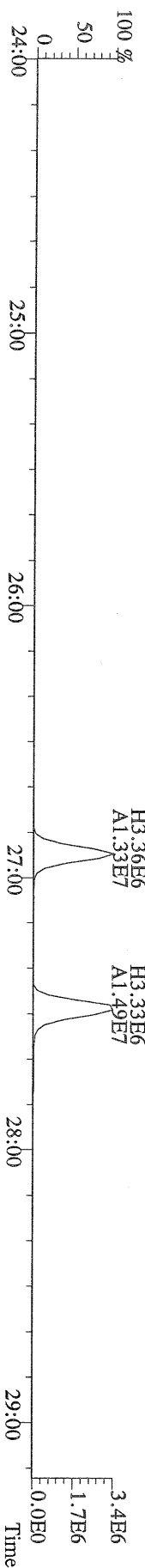
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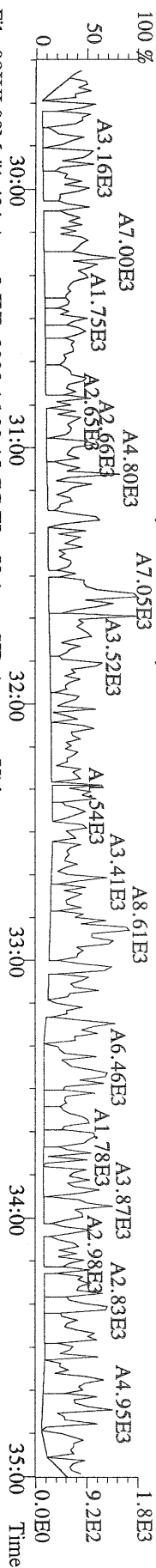
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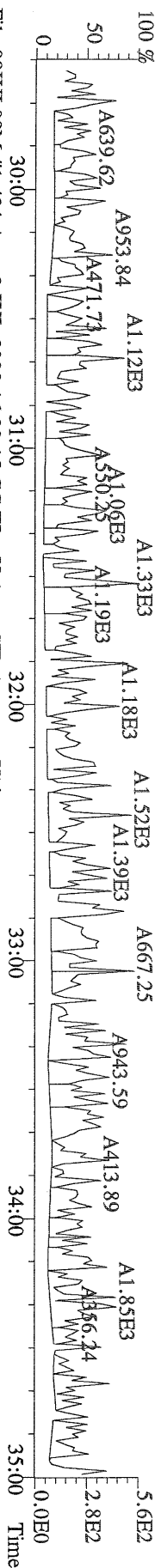
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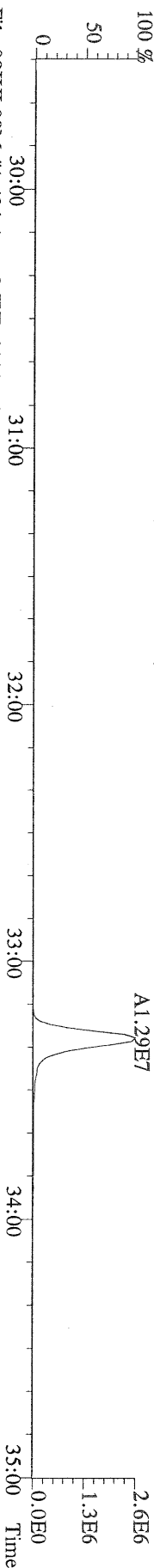
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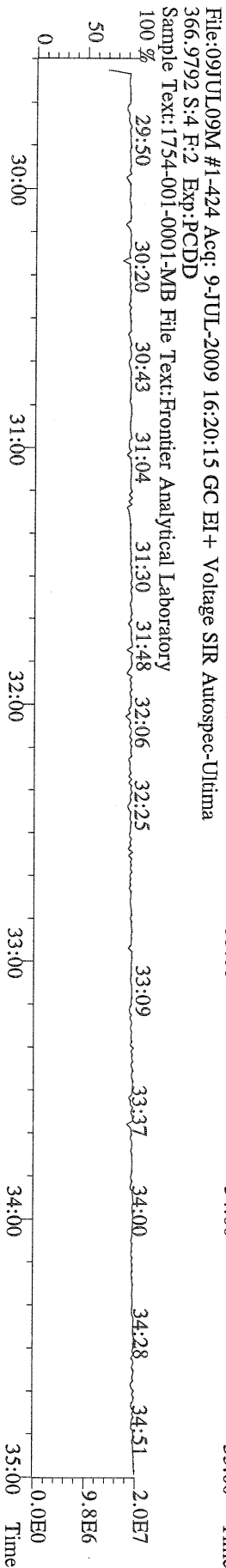
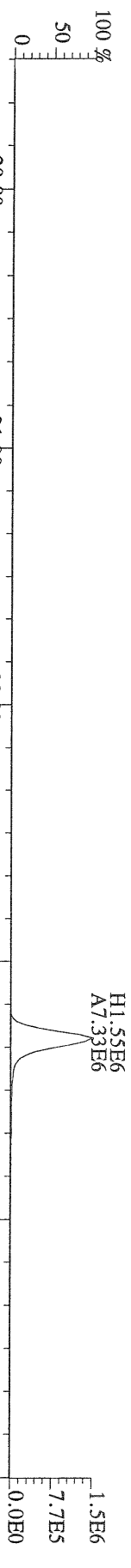
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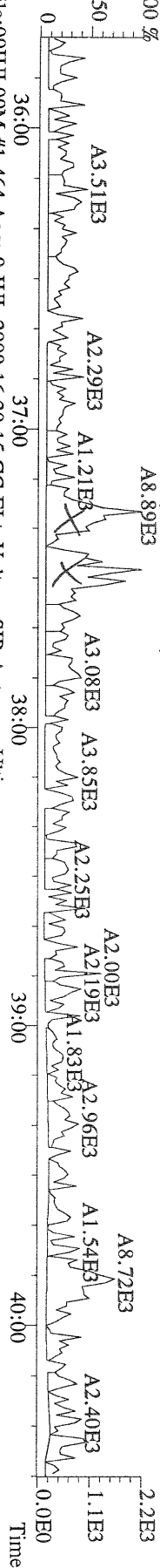
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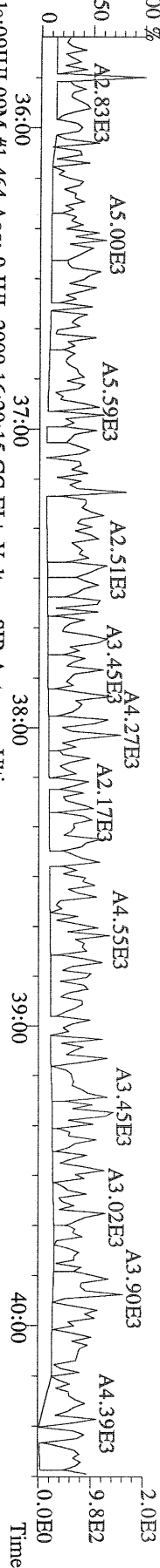
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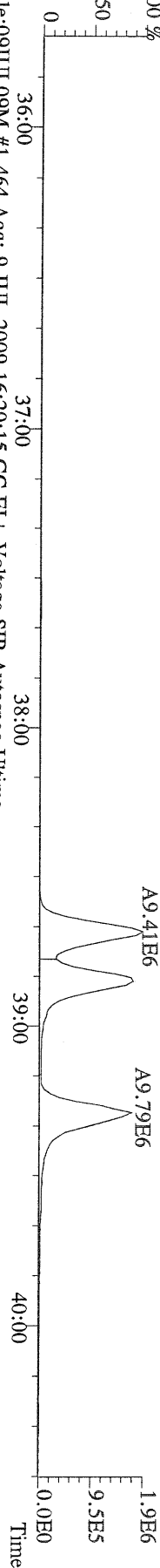
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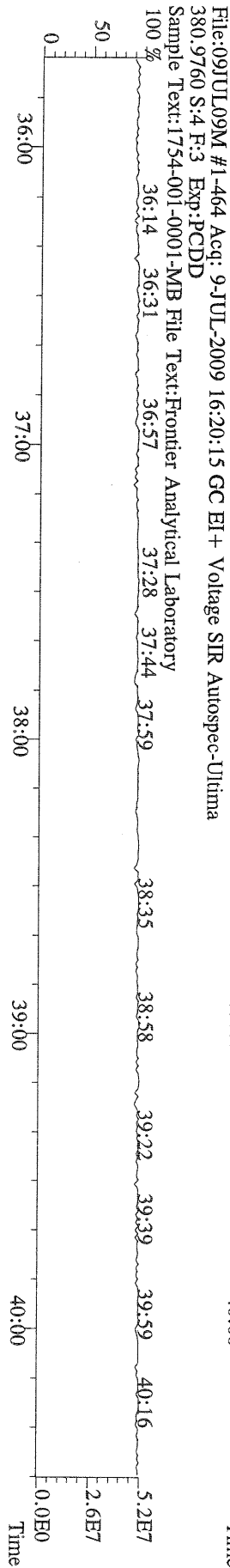
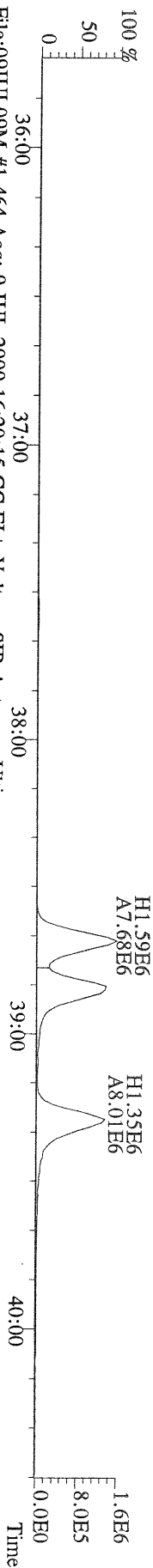
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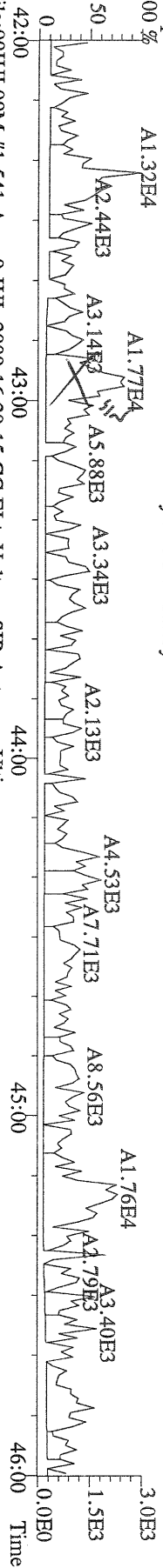
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401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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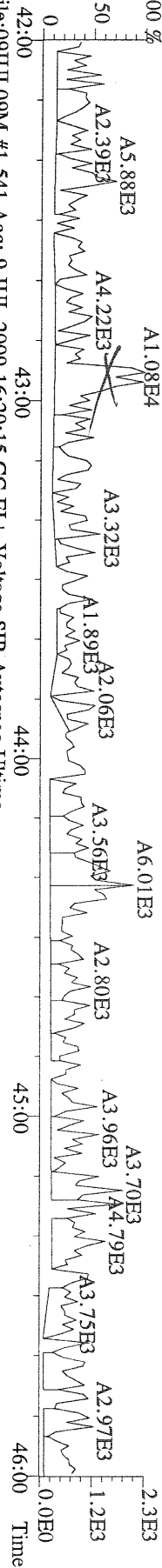
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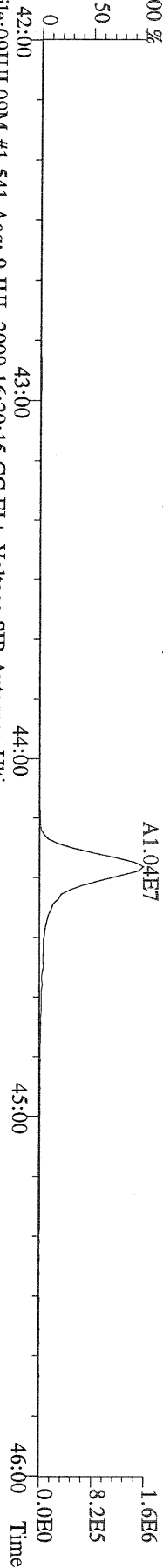
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423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory



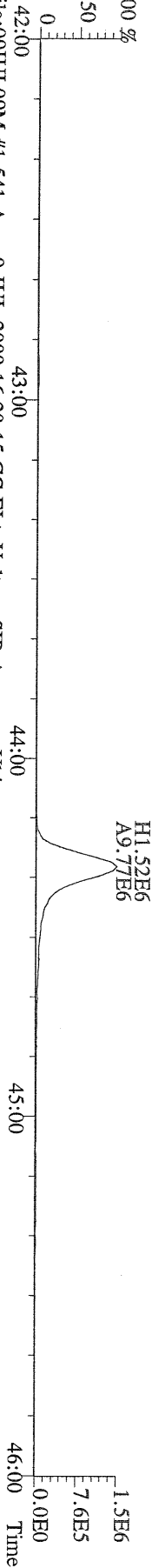
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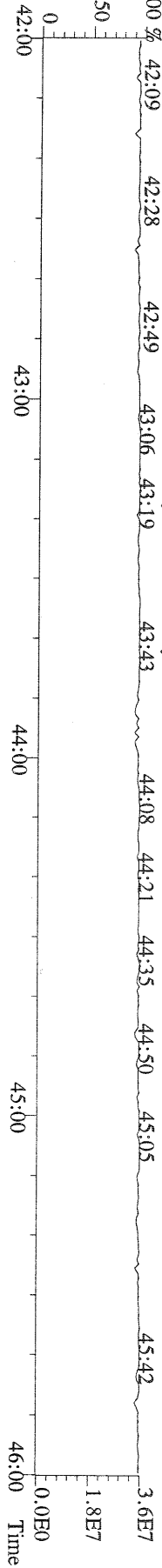
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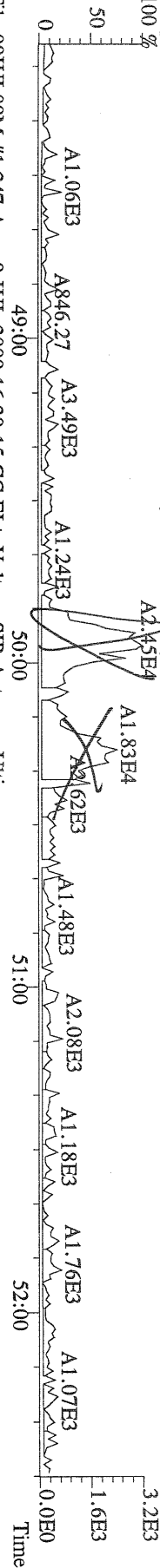
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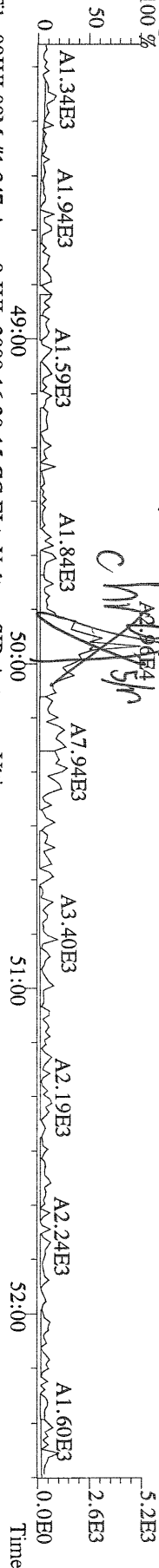
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430.9728 S:4 F:4 Exp:PCDD
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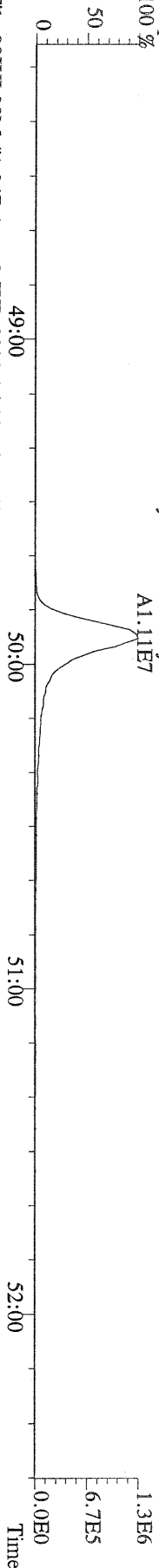
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457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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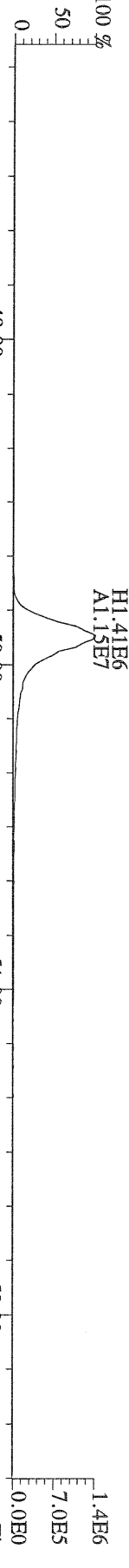
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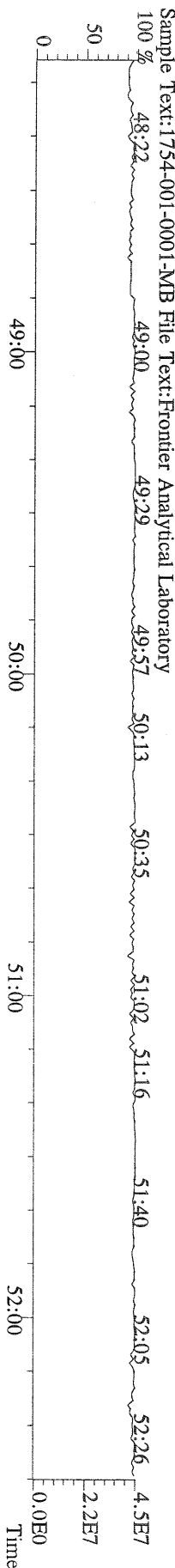
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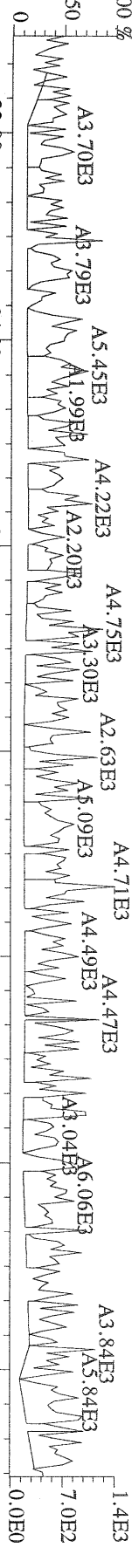
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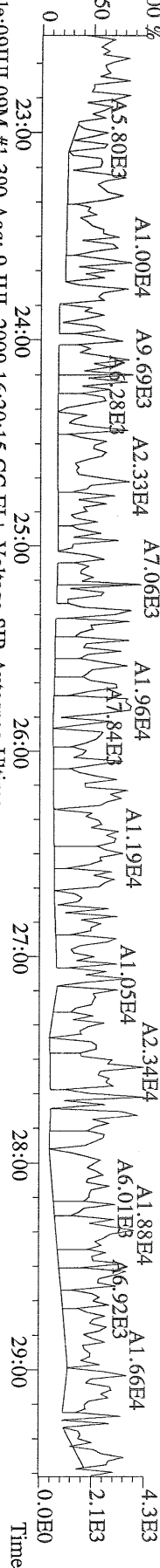
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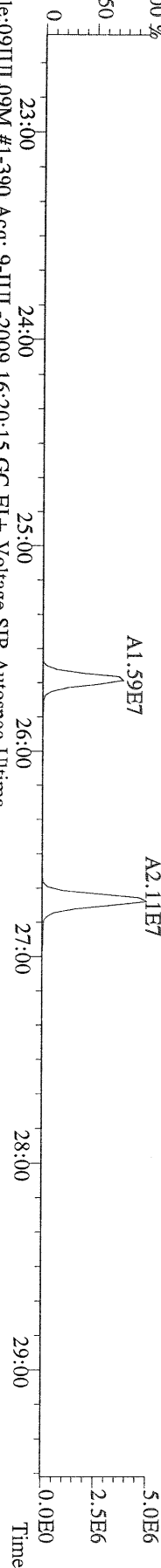
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303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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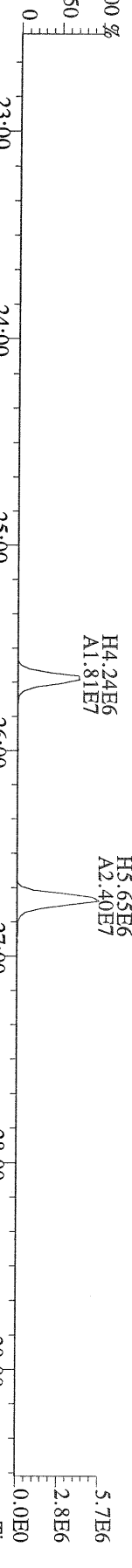
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305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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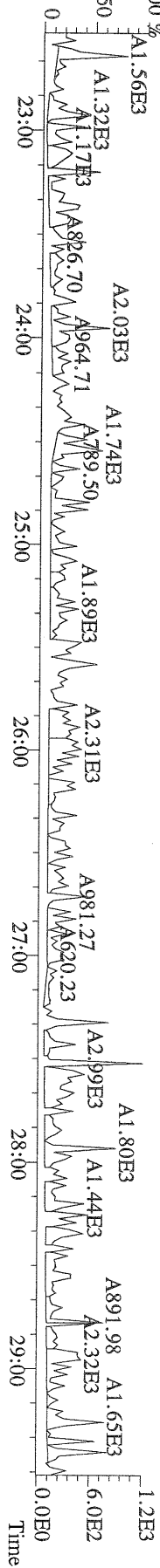
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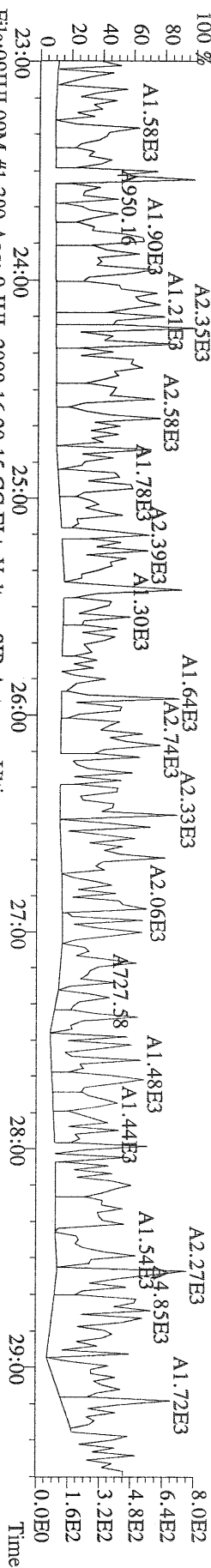
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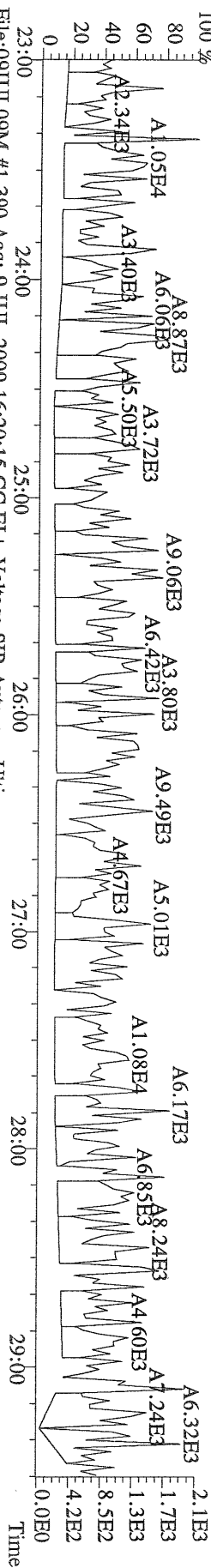
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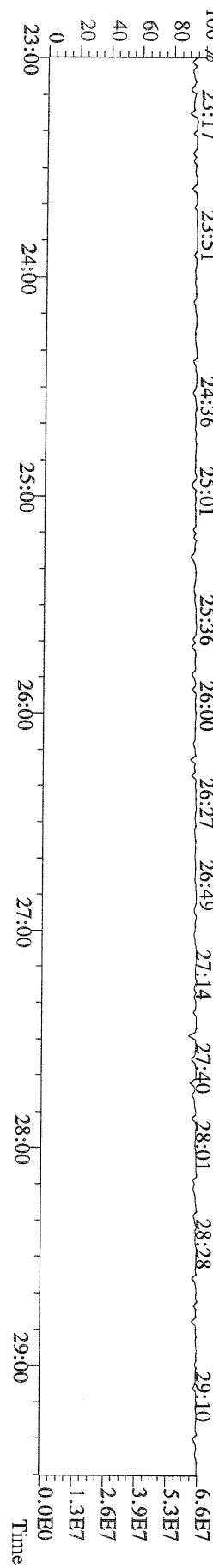
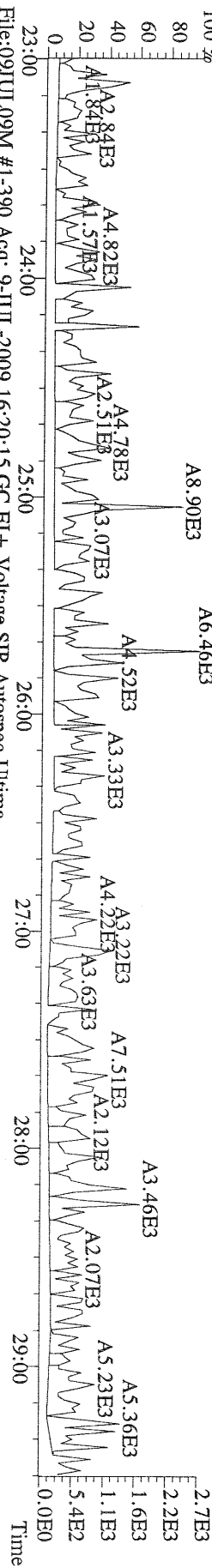
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339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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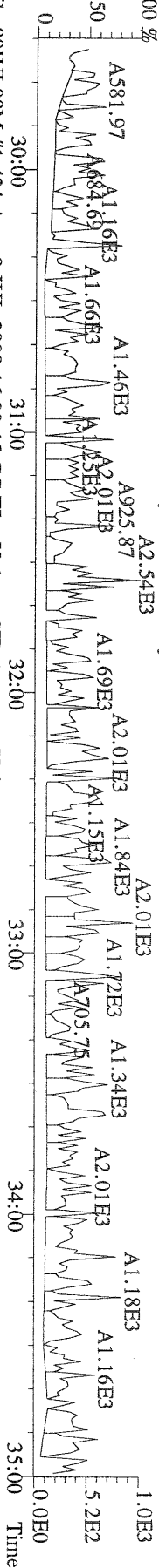
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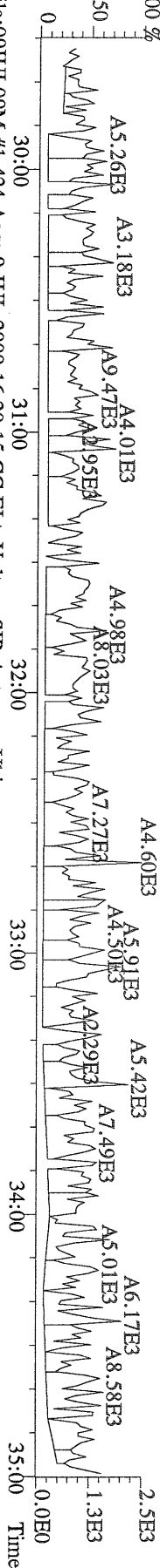
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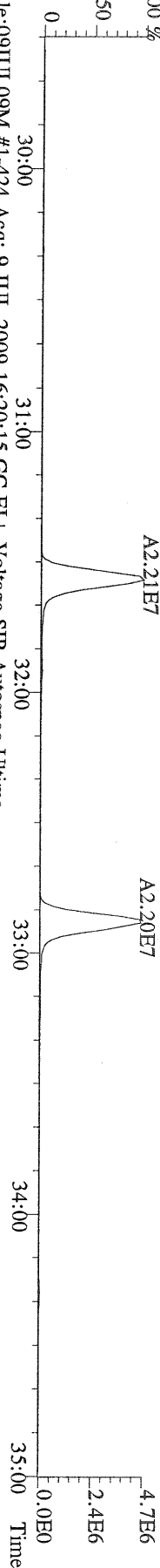
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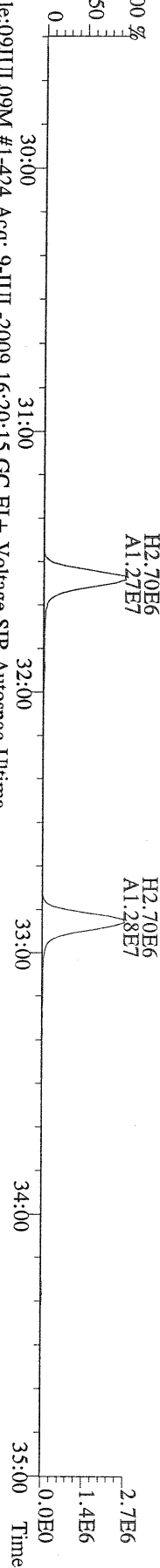
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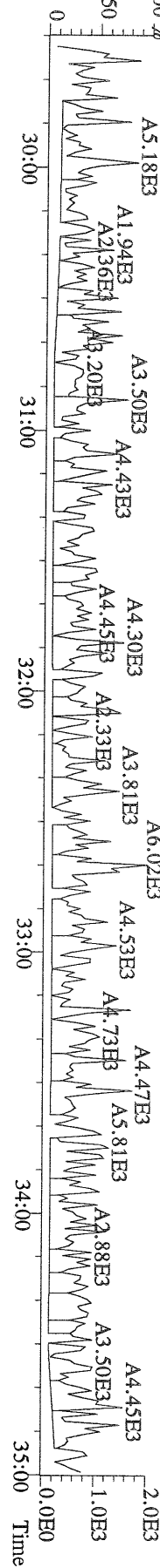
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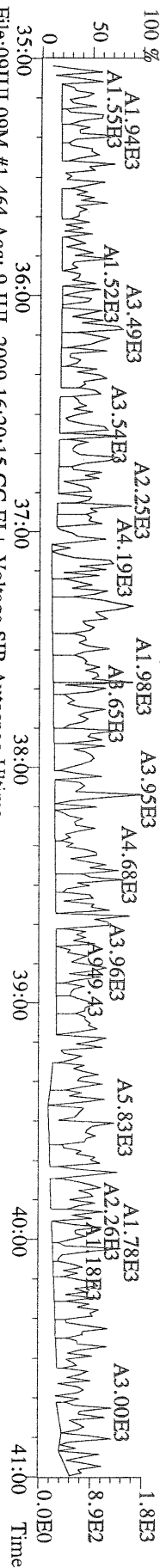
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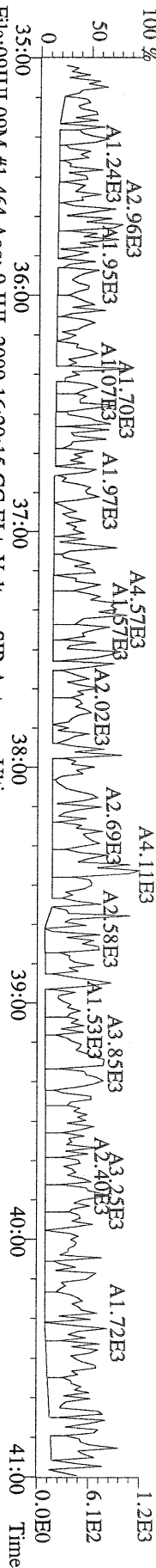
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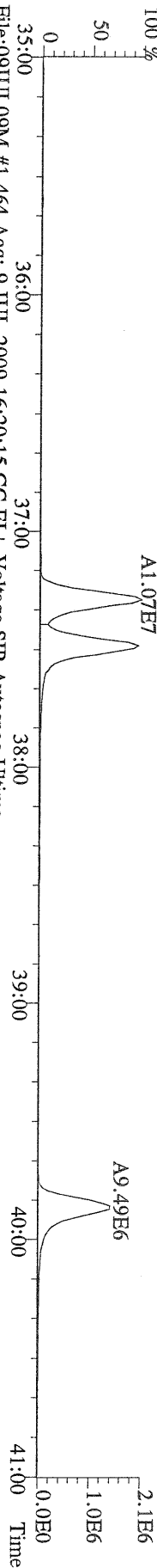
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373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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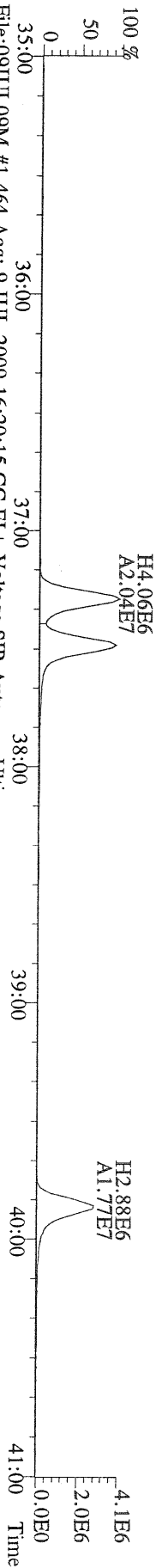
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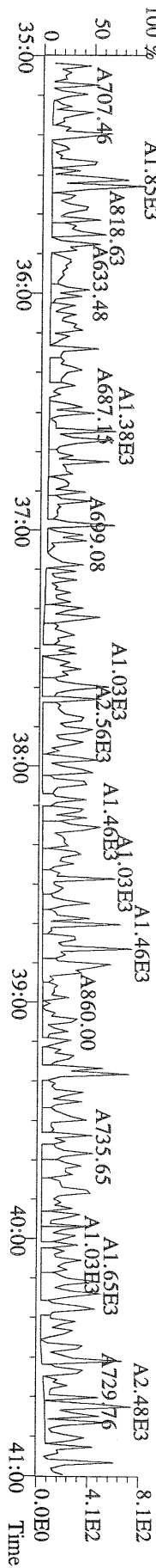
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383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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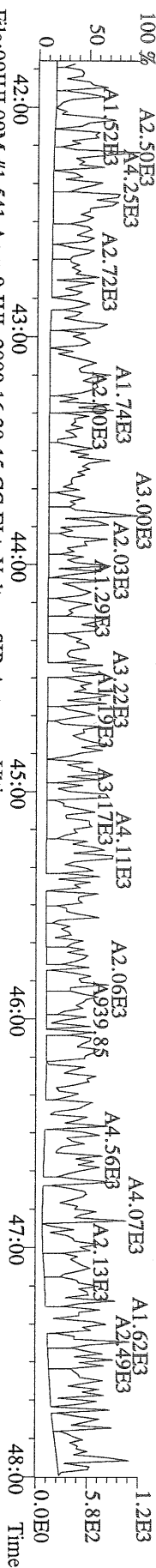
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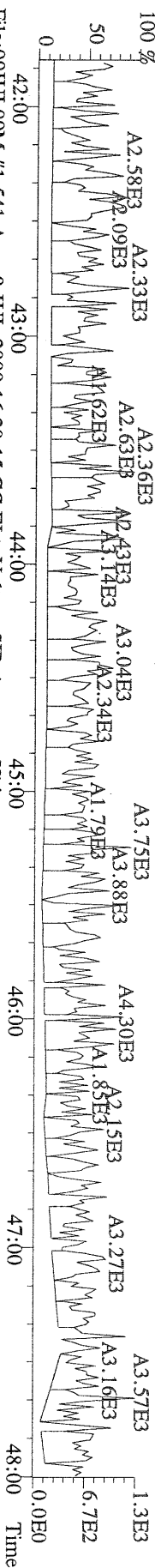
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445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory



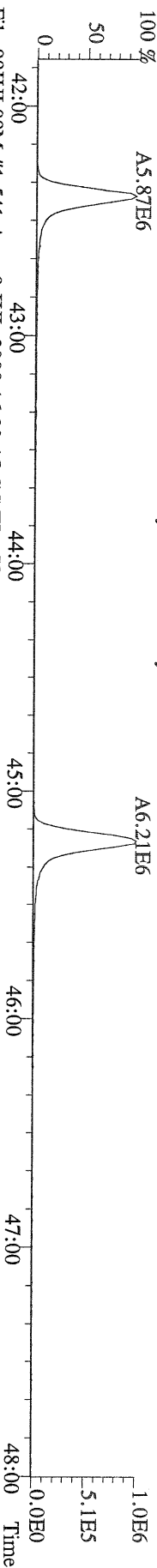
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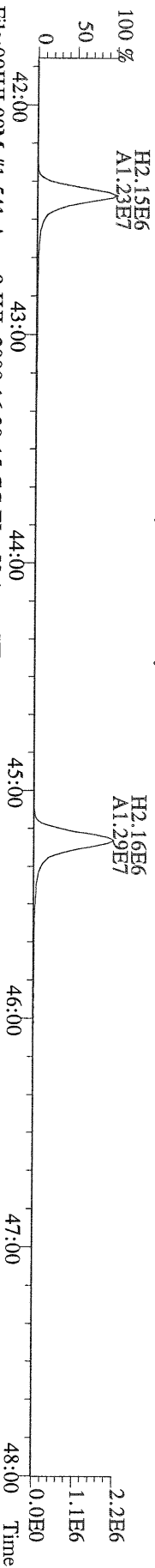
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409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory
100 % A0 50T3 A2 33F3 A2.36E3 A



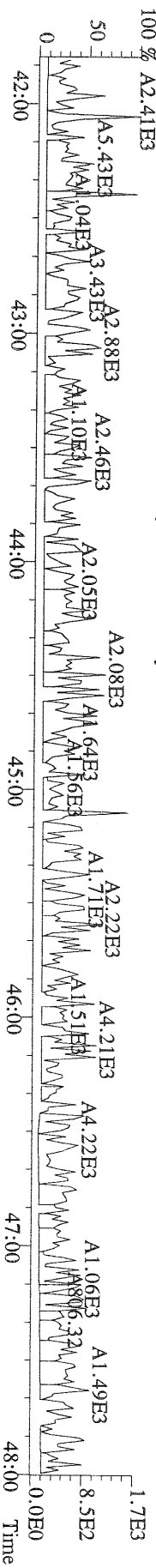
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417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory
100 % A5.87E6 A6



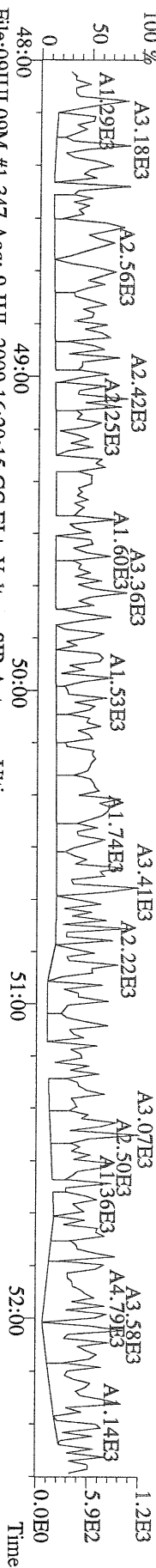
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419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory



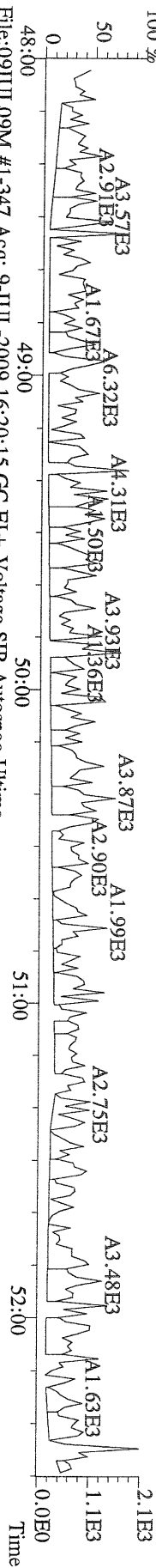
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479.7165 S-4 F:4 BSub(10000,15-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory
100 % A2.41E3



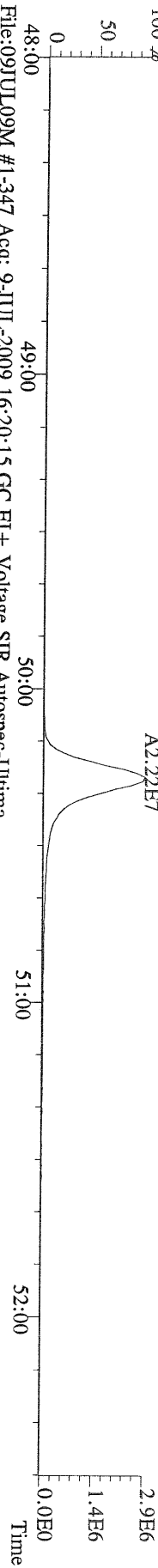
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Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory



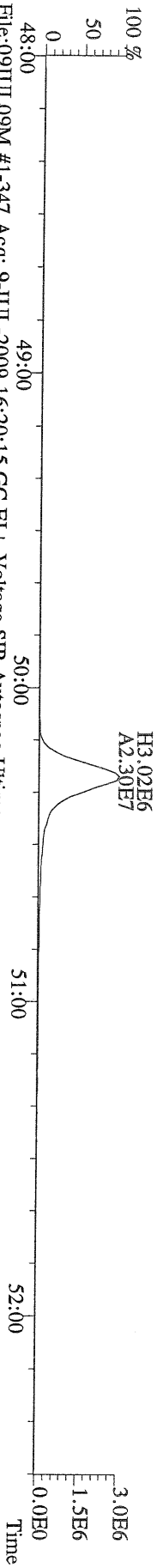
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Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory



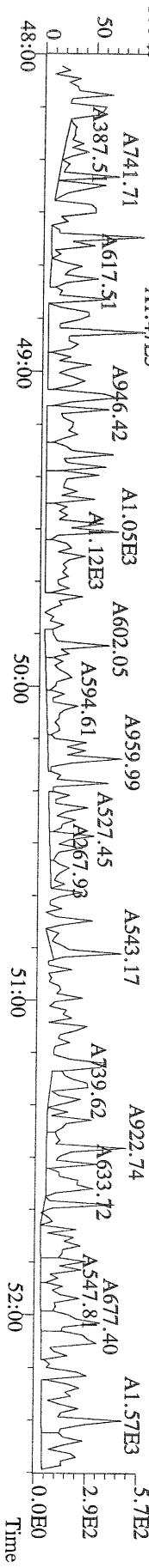
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453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory



File:09JUL09M #1-347 Acq: 9-JUL-2009 16:20:15 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory



File:09JUL09M #1-347 Acq: 9-JUL-2009 16:20:15 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-MB File Text:Frontier Analytical Laboratory



1754-001-0001-LL1

USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Matrix (MM5/PUF): PUF/Filter OPR Data Filename: 09JUL09M Sam:2
Ext. Date: 6/23/09 Shift: Day Analysis Date: 9-JUL-09 14:29:30

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	5.00	4.60	3.00 - 7.00 ✓
1,2,3,7,8-PeCDD	25.0	23.8	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDD	25.0	24.4	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDD	25.0	26.7	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDD	25.0	24.4	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDD	25.0	25.5	15.0 - 35.0 ✓
OCDD	50.0	53.8	30.0 - 70.0 ✓
2,3,7,8-TCDF	5.00	5.09	3.00 - 7.00 ✓
1,2,3,7,8-PeCDF	25.0	24.5	15.0 - 35.0 ✓
2,3,4,7,8-PeCDF	25.0	25.3	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDF	25.0	24.9	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDF	25.0	26.0	15.0 - 35.0 ✓
2,3,4,6,7,8-HxCDF	25.0	23.8	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDF	25.0	26.5	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDF	25.0	25.9	15.0 - 35.0 ✓
1,2,3,4,7,8,9-HpCDF	25.0	31.2	15.0 - 35.0 ✓
OCDF	50.0	53.5	30.0 - 70.0 ✓

Analyst: 6Date: 7/10/09

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

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Matrix (MM5/PUF): PUF/Filter OPR Data Filename: 09JUL09M Sam:2
Ext. Date: 6/23/09 Shift: Day Analysis Date: 9-JUL-09 14:29:30

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	91.5	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDD	100	102	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	100	98.4	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	99.9	40.0 - 130 ✓
13C-OCDD	200	147	50.0 - 260 ✓
13C-2,3,7,8-TCDF	100	96.7	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	100	102	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	100	103	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	93.7	40.0 - 130 ✓
13C-OCDF	200	180	50.0 - 260 ✓
CLEANUP STANDARD			
13C-1,2,3,7,8,9-HxCDF	100	106	40.0 - 130 ✓
PRE-SPIKE STANDARD			
37Cl-2,3,7,8-TCDD	100	101	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDD	100	89.4	70.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	100	103	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	100	95.0	70.0 - 130 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	119	70.0 - 130 ✓

Analyst: _____

Date: _____

FAL ID: 1754-001-0001-LC1	Filename: 09JUL09M	Sam:2	Acquired: 9-JUL-09 14:29:30	ICal: AIRFAL3-6-29-09
Client ID: LCS1			ConCal: ST070909M1	EndCal: ST070909M2
Results:	GC Column: DB5	Amount: 1.000		NATO 1989 Tox: 49.5

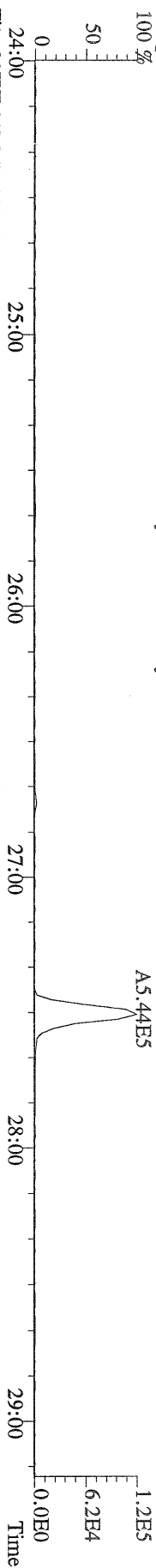
NATO 1989 Tox: 49.5
WHO 1998 Tox: 61.3

	Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
	2,3,7,8-TCDD	1.26e+06	0.76 y	27:30	1.14	4.60		2.50	-	*	
	1,2,3,7,8-PeCDD	4.99e+06	1.63 y	33:20	1.14	23.8		2.50	-	*	
	1,2,3,4,7,8-HxCDD	5.17e+06	1.25 y	38:43	1.37	24.4		2.50	-	*	
	1,2,3,6,7,8-HxCDD	5.11e+06	1.26 y	38:52	1.24	26.7		2.50	-	*	
	1,2,3,7,8,9-HxCDD	5.10e+06	1.22 y	39:19	1.35	24.4		2.50	-	*	
	1,2,3,4,6,7,8-HpCDD	4.77e+06	1.01 y	44:20	1.15	25.5		2.50	-	*	
	OCDD	5.67e+06	0.87 y	49:55	1.43	53.8		2.50	-	*	
	2,3,7,8-TCDF	2.34e+06	0.67 y	26:45	1.14	5.09		2.50	-	*	
	1,2,3,7,8-PeCDF	6.81e+06	1.69 y	31:35	0.90	24.5		2.50	-	*	
	2,3,4,7,8-PeCDF	6.66e+06	1.68 y	32:54	0.86	25.3		2.50	-	*	
	1,2,3,4,7,8-HxCDF	7.27e+06	1.20 y	37:18	1.02	24.9		2.50	-	*	
	1,2,3,6,7,8-HxCDF	7.73e+06	1.21 y	37:31	1.04	26.0		2.50	-	*	
	2,3,4,6,7,8-HxCDF	6.39e+06	1.16 y	38:27	0.94	23.8		2.50	-	*	
	1,2,3,7,8,9-HxCDF	6.65e+06	1.19 y	39:53	0.88	26.5		2.50	-	*	
	1,2,3,4,6,7,8-HpCDF	5.78e+06	1.03 y	42:25	1.51	25.9		2.50	-	*	
	1,2,3,4,7,8,9-HpCDF	5.15e+06	1.03 y	45:14	1.11	31.2		2.50	-	*	
	OCDF	7.32e+06	0.92 y	50:18	0.87	53.5		2.50	-	*	
	13C-2,3,7,8-TCDD	2.39e+07	0.79 y	27:29	1.21	91.5					Rec
	13C-1,2,3,7,8-PeCDD	1.83e+07	1.72 y	33:18	0.83	102					91.5
	13C-1,2,3,6,7,8-HxCDD	1.55e+07	1.19 y	38:51	0.99	98.4					102
	13C-1,2,3,4,6,7,8-HpCDD	1.62e+07	1.06 y	44:18	1.03	99.9					98.4
	13C-OCDD	1.48e+07	0.98 y	49:55	0.64	147					99.9
	13C-2,3,7,8-TCDF	4.03e+07	0.87 y	26:44	1.33	96.7					73.3
	13C-1,2,3,7,8-PeCDF	3.07e+07	1.74 y	31:34	0.96	102					96.7
	13C-1,2,3,6,7,8-HxCDF	2.86e+07	0.52 y	37:29	1.75	103					102
	13C-1,2,3,4,6,7,8-HpCDF	1.48e+07	0.48 y	42:24	1.00	93.7					103
	13C-OCDF	3.16e+07	0.96 y	50:16	1.11	180					93.7
	13C-1,2,3,7,8,9-HxCDF	2.34e+07	0.52 y	39:52	1.40	106					89.9
	37Cl-2,3,7,8-TCDD	1.34e+07		27:30	0.56	101					106
	13C-1,2,3,4,7,8-HxCDD	1.45e+07	1.26 y	38:41	1.05	89.4					
	13C-2,3,4,7,8-PeCDF	2.94e+07	1.72 y	32:53	0.93	103					
	13C-1,2,3,4,7,8-HxCDF	2.70e+07	0.53 y	37:18	1.00	95.0					
	13C-1,2,3,4,7,8,9-HpCDF	1.46e+07	0.48 y	45:13	0.82	119					
	13C-1,2,3,4-TCDD	2.16e+07	0.80 y	26:55	-	51.7					
	13C-2,3,7,8-TCDF	3.13e+07	0.88 y	25:39	-	46.5					
	13C-1,2,3,7,8,9-HxCDD	1.58e+07	1.22 y	39:18	-	53.6					
								Fac	Noise	DL	#Hom
	Total Tetra-Dioxins	1.39e+06		22:45	1.14	5.10		2.50	-	*	28
	Total Penta-Dioxins	5.10e+06		31:31	1.14	24.4		2.50	-	*	23
	Total Hexa-Dioxins	1.57									

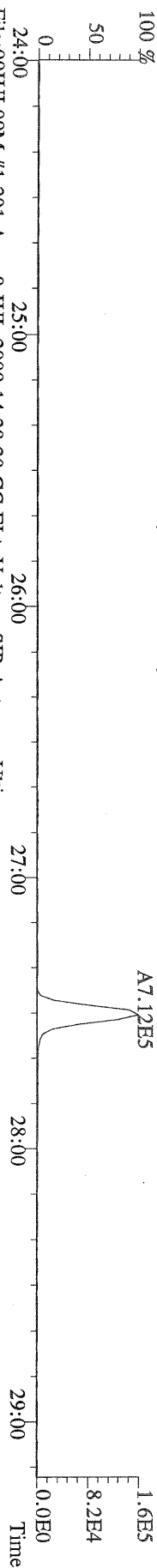
Analyst:

Date:

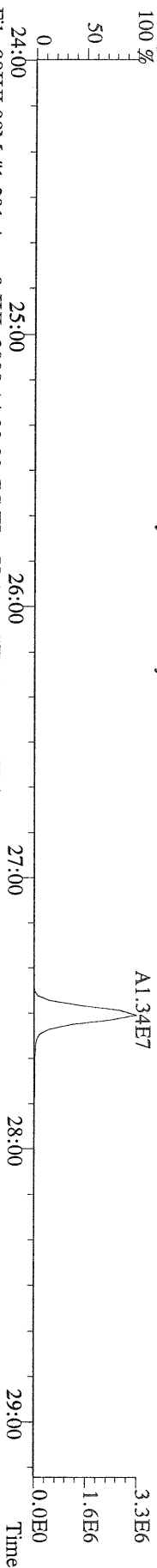
File:09JUL09M #1-391 Acq: 9-JUL-2009 14:29:30 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



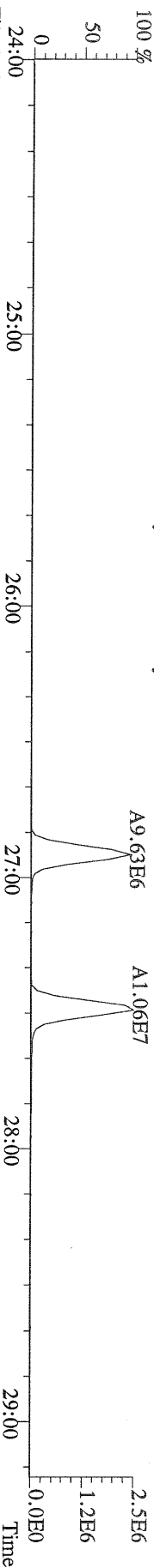
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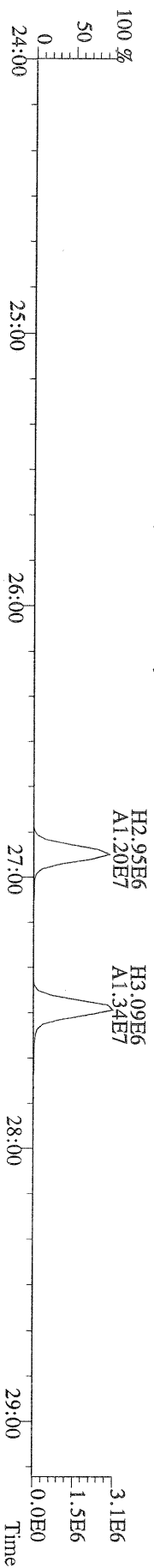
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327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



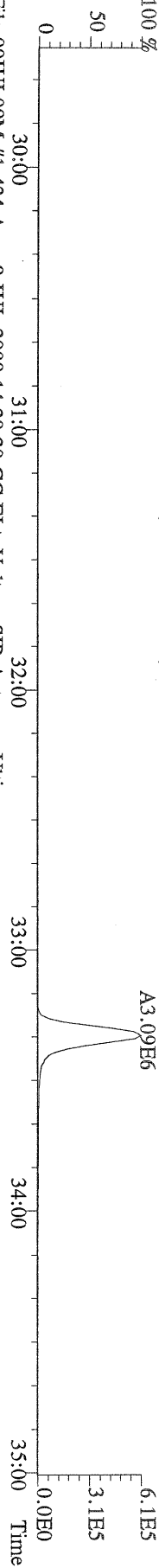
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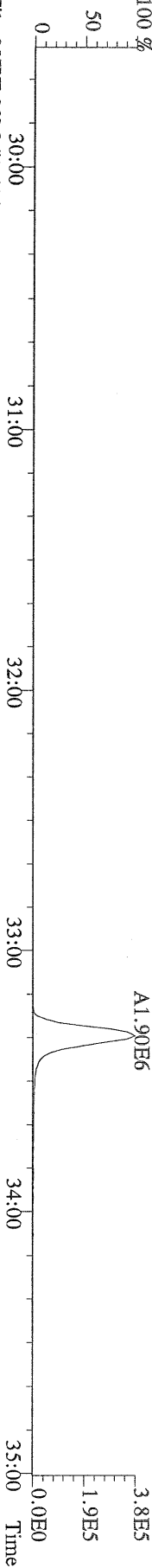
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333.9339 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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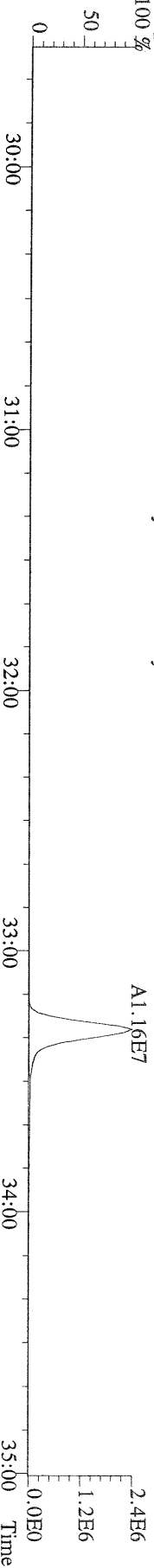
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355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



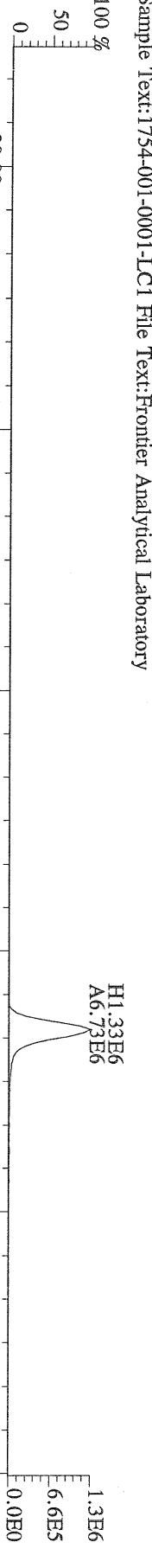
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Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



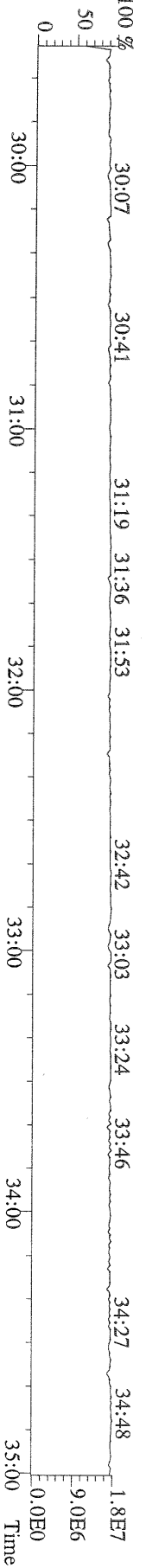
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367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



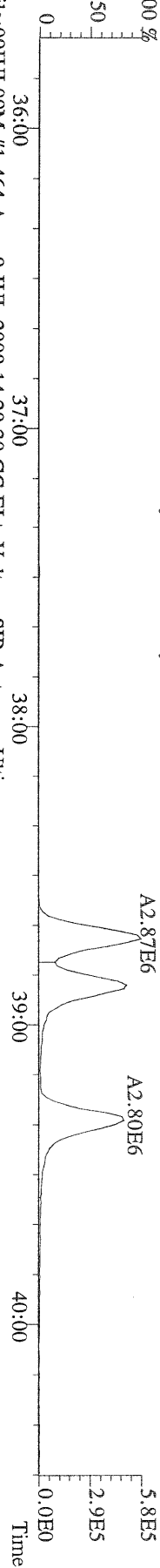
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369.8919 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



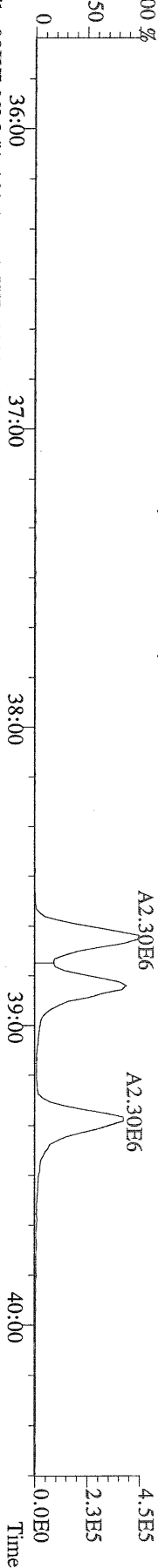
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366.9792 S:2 F:2 Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



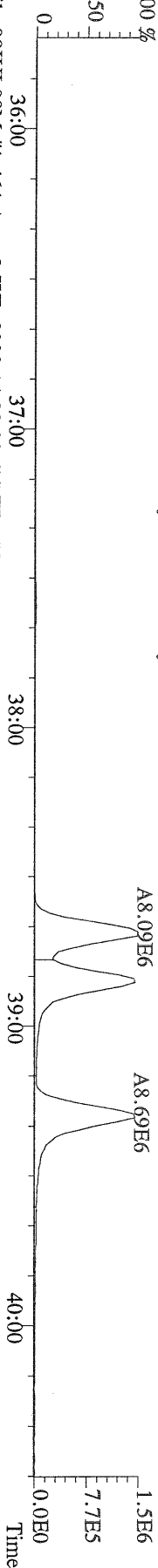
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389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



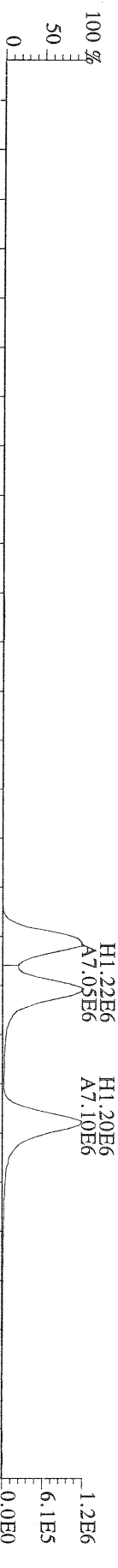
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391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



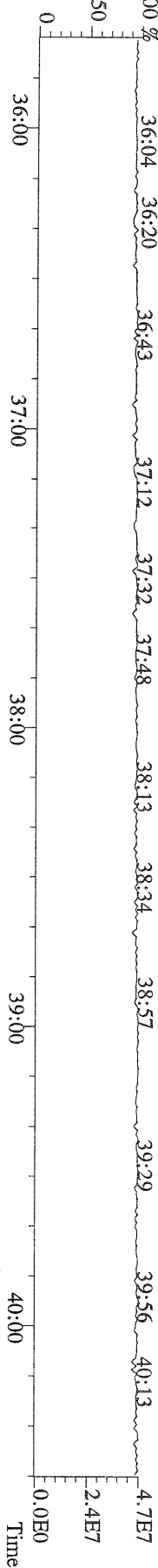
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401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



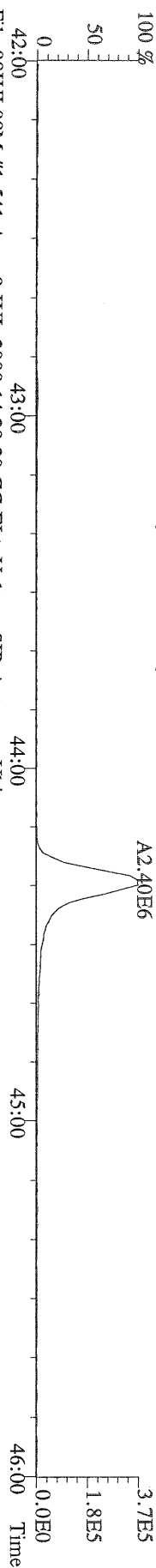
File:09JUL09M #1-464 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



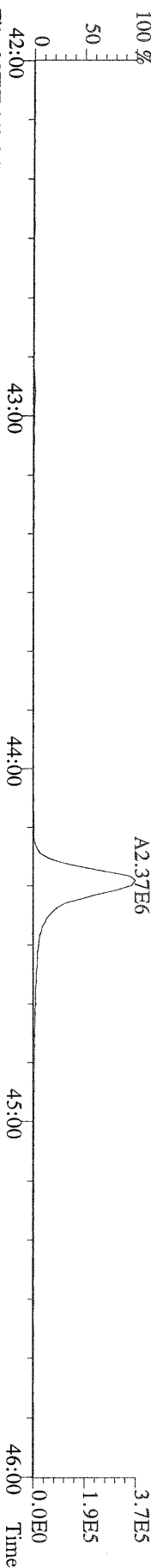
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380.9760 S:2 F:3 Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



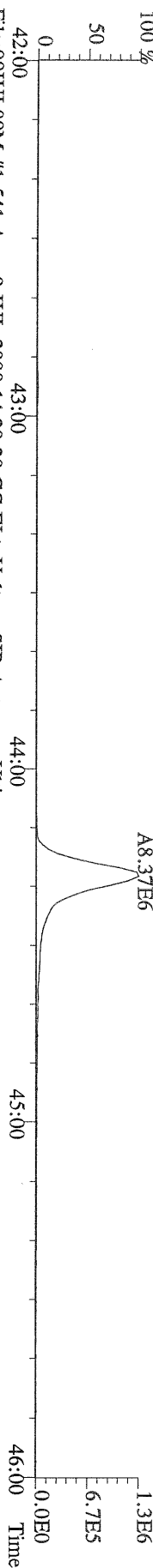
File:09JUL09M #1-541 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



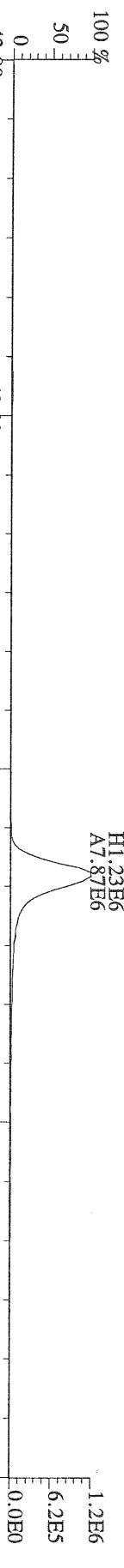
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425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



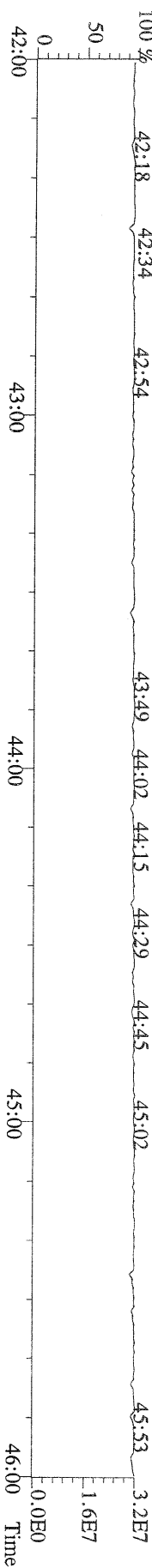
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435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



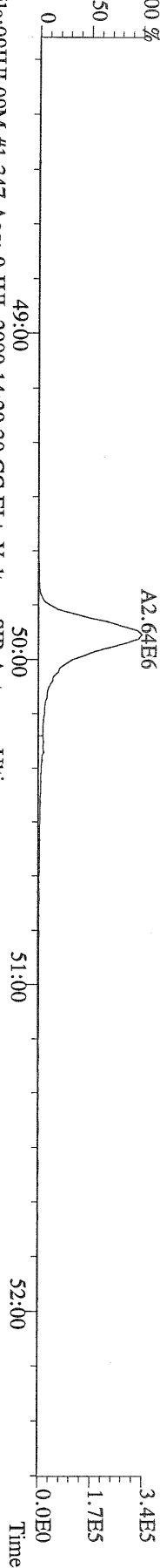
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437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



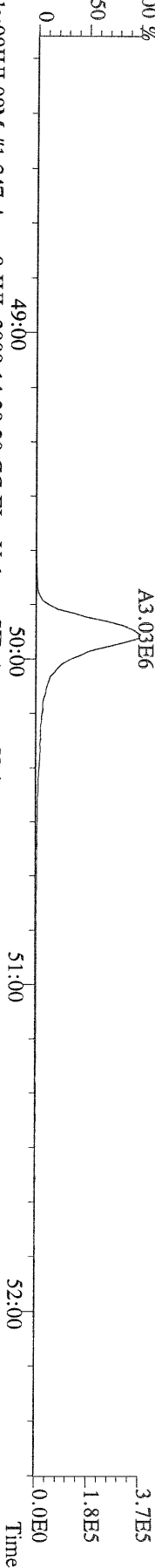
File:09JUL09M #1-541 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:2 F:4 Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



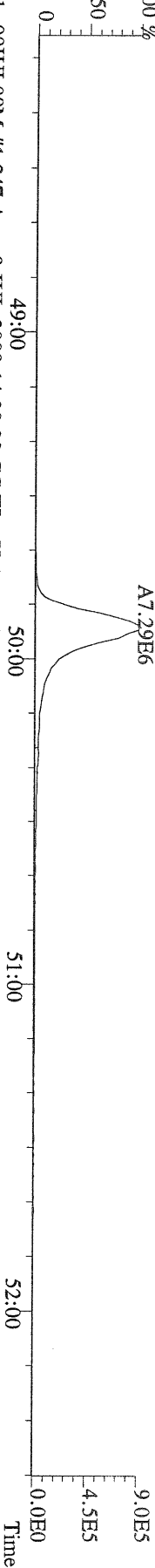
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457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



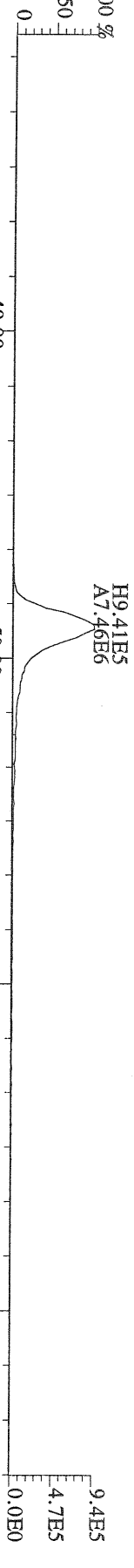
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459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



File:09JUL09M #1-347 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



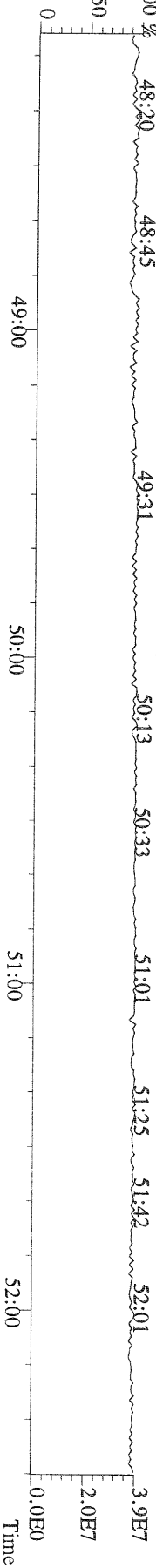
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471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



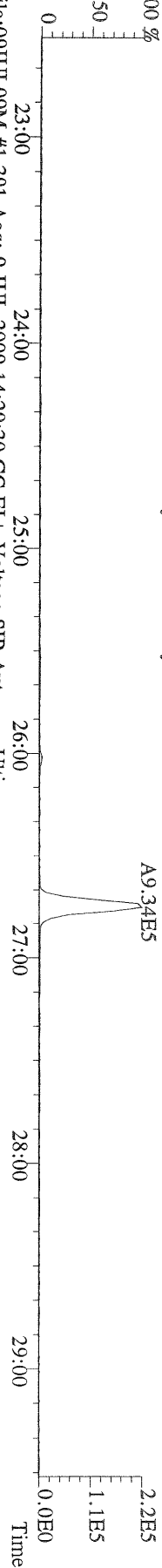
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454.9728 S:2 F:5 Exp:PCDD

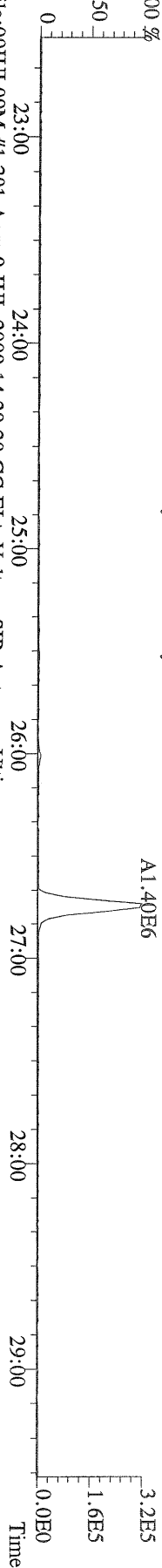
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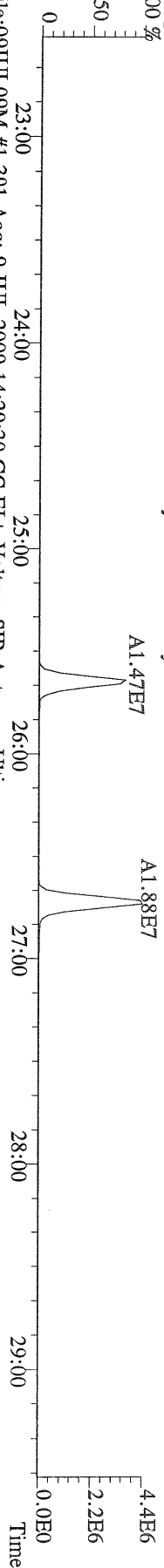
File:09JUL09M #1-391 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



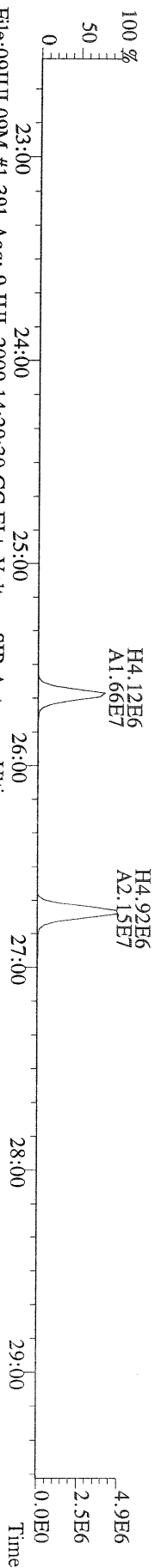
File:09JUL09M #1-391 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



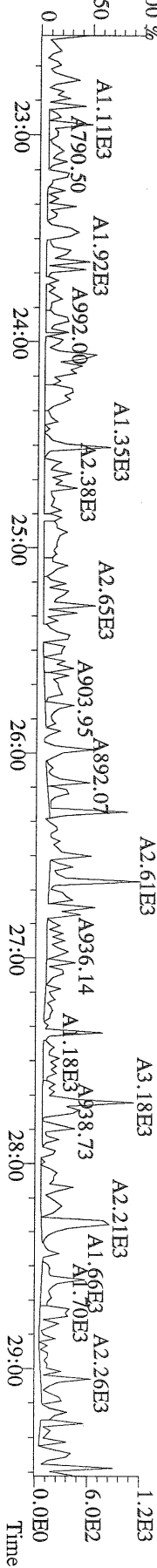
File:09JUL09M #1-391 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



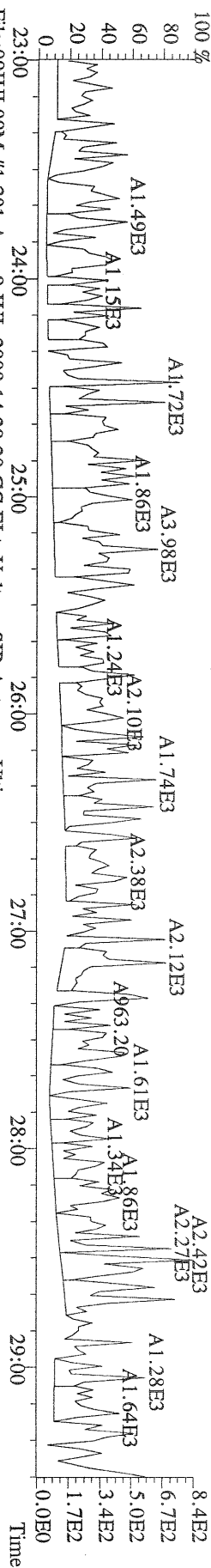
File:09JUL09M #1-391 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



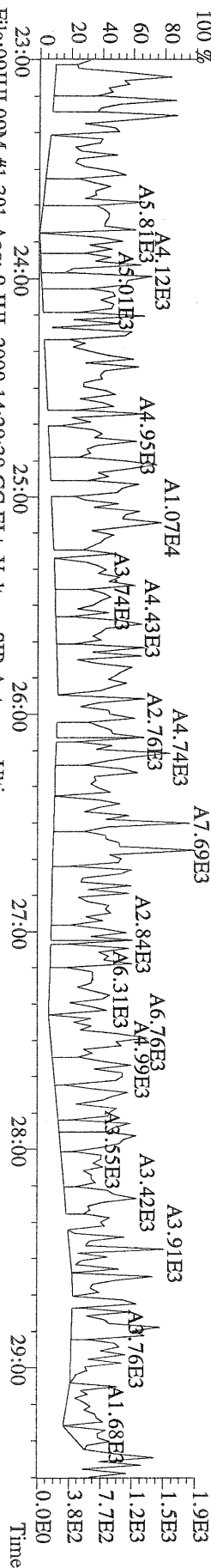
File:09JUL09M #1-391 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



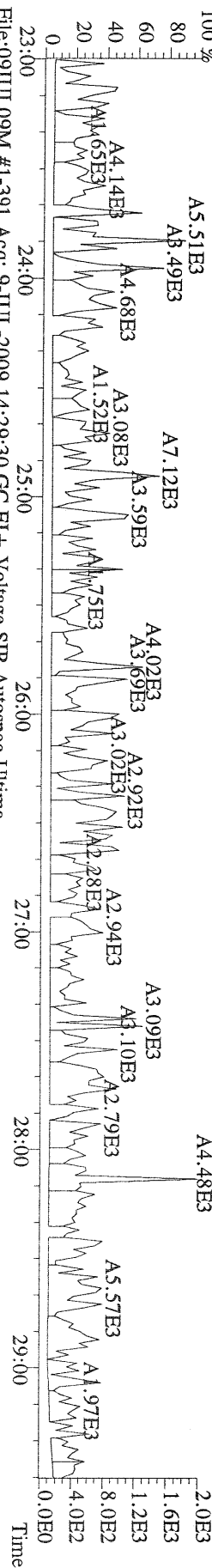
File:09JUL09M #1-391 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



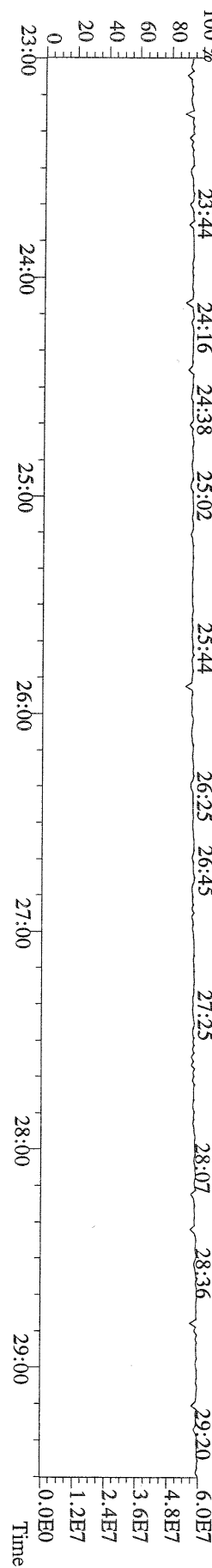
File:09JUL09M #1-391 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



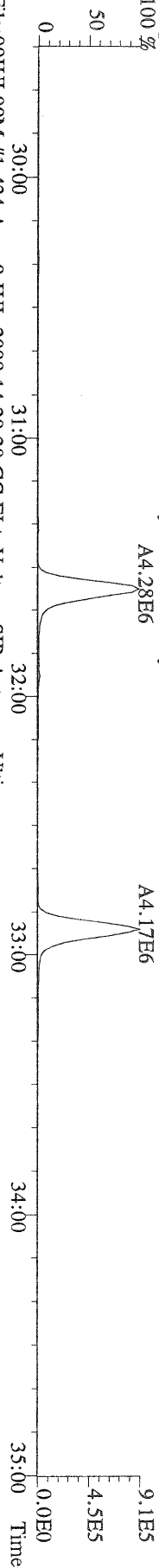
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409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



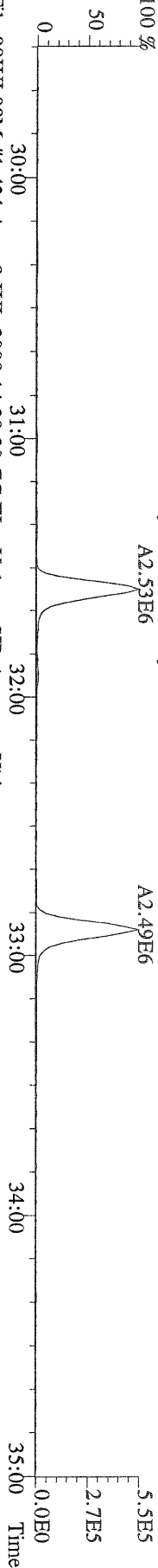
File:09JUL09M #1-391 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:2 Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



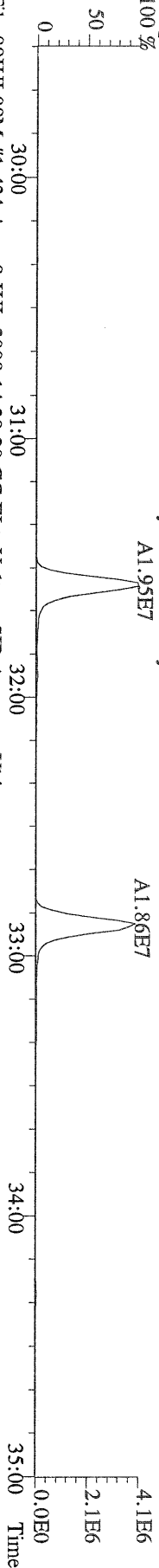
File:09JUL09M #1-424 Acq: 9-JUL-2009 14:29:30 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



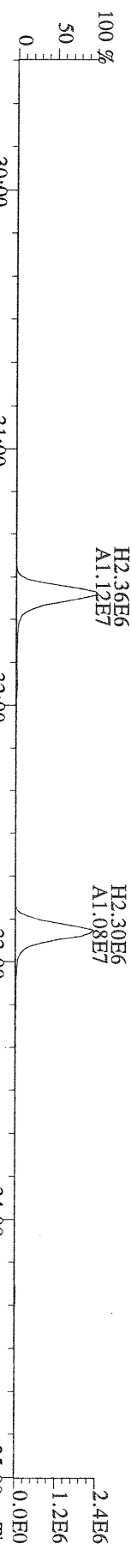
File:09JUL09M #1-424 Acq: 9-JUL-2009 14:29:30 GC EI + Voltage SIR Autospec-Ultima
341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



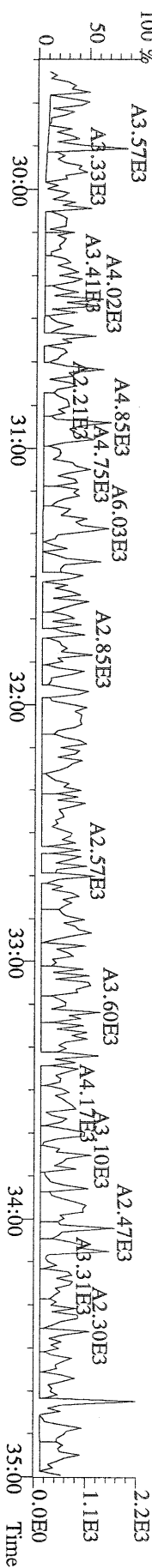
File:09JUL09M #1-424 Acq: 9-JUL-2009 14:29:30 GC EI + Voltage SIR Autospec-Ultima
351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



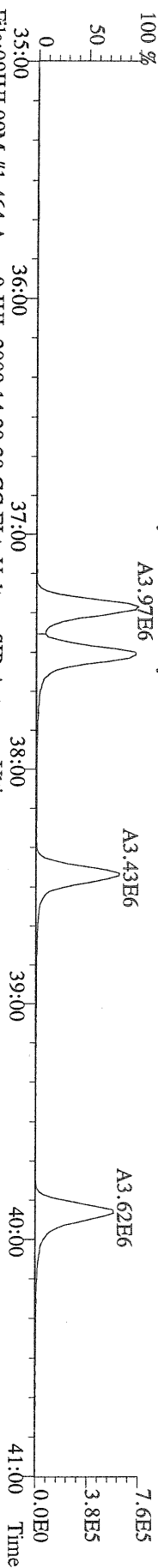
File:09JUL09M #1-424 Acq: 9-JUL-2009 14:29:30 GC EI + Voltage SIR Autospec-Ultima
353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



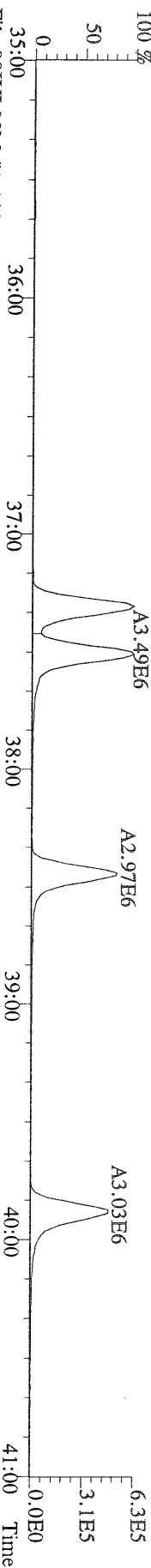
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409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



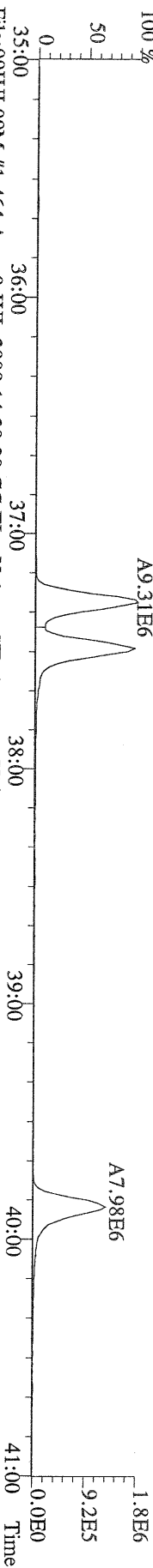
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373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-1C1 File Text:Frontier Analytical Laboratory



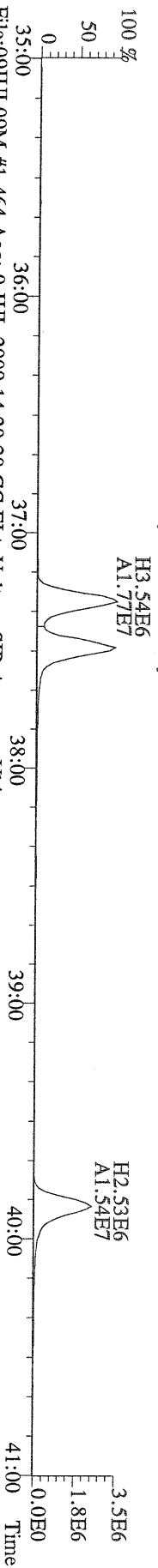
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375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-1C1 File Text:Frontier Analytical Laboratory



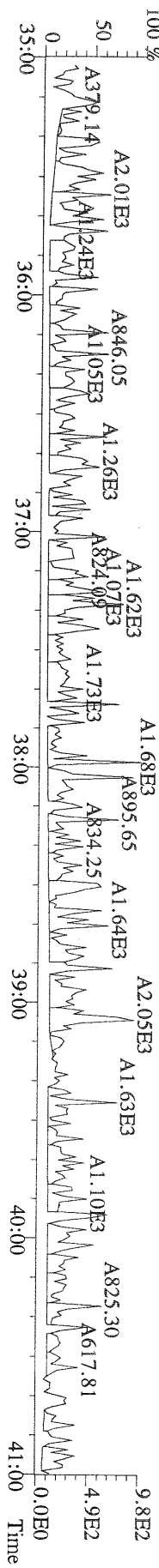
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383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-1C1 File Text:Frontier Analytical Laboratory



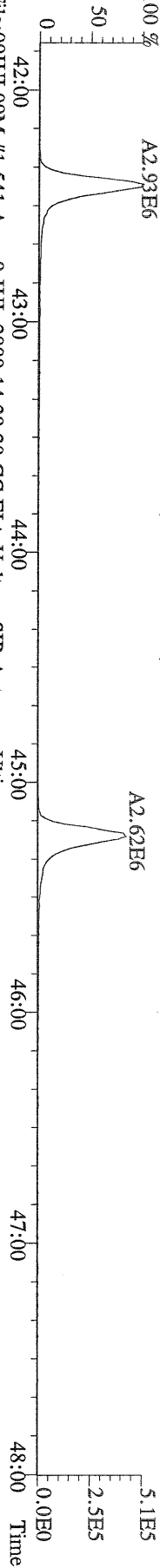
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385.8610 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-1C1 File Text:Frontier Analytical Laboratory



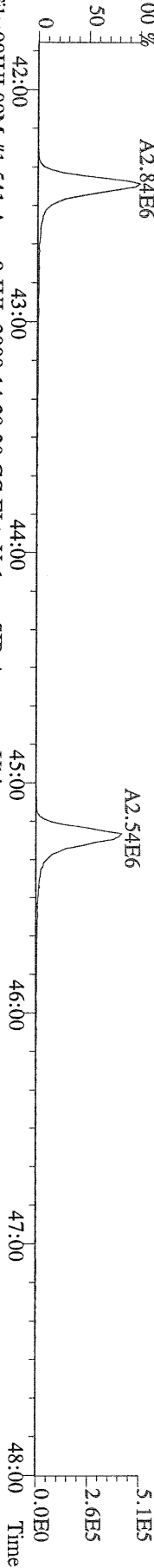
File:09JUL09M #1-464 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-1C1 File Text:Frontier Analytical Laboratory



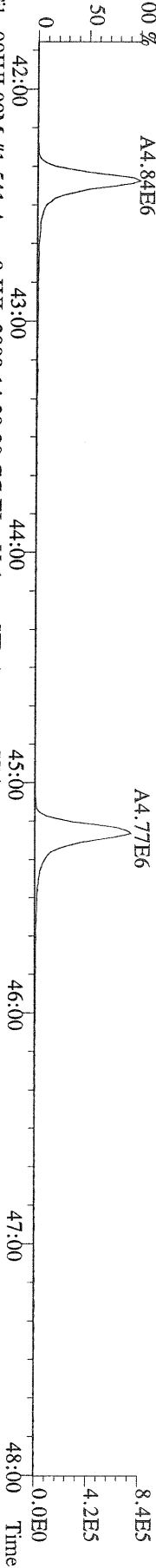
File:09JUL09M #1-541 Acq: 9-JUL-2009 14:29:30 GC EI + Voltage SIR Autospec-Ultima
407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



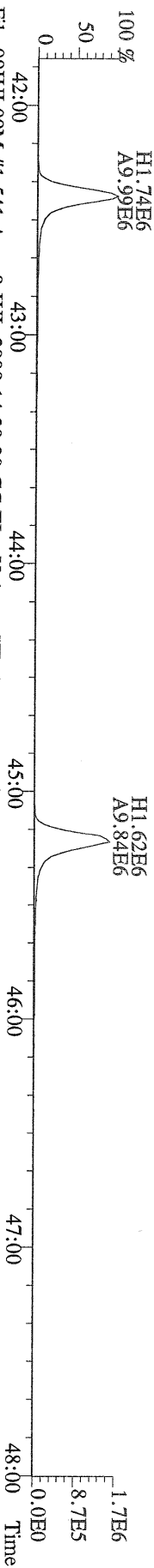
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409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



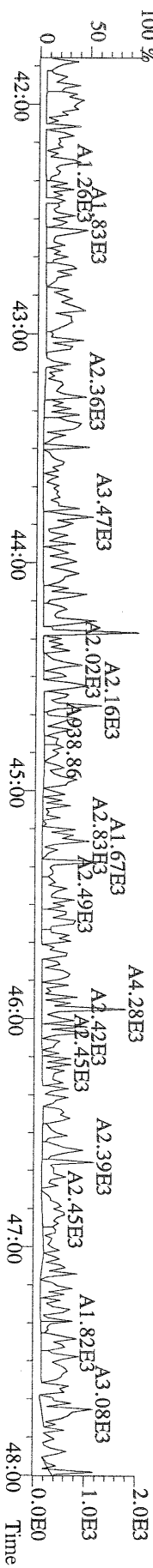
File:09JUL09M #1-541 Acq: 9-JUL-2009 14:29:30 GC EI + Voltage SIR Autospec-Ultima
417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



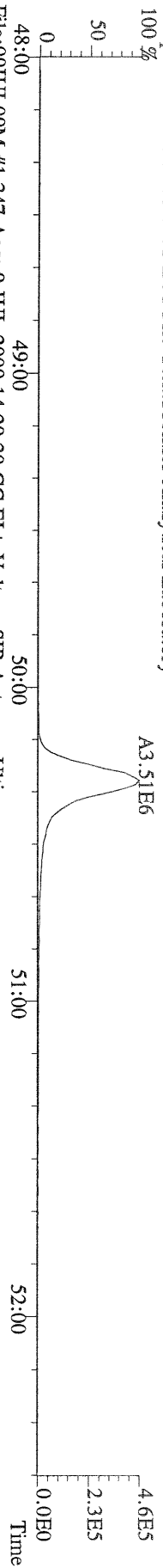
File:09JUL09M #1-541 Acq: 9-JUL-2009 14:29:30 GC EI + Voltage SIR Autospec-Ultima
419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



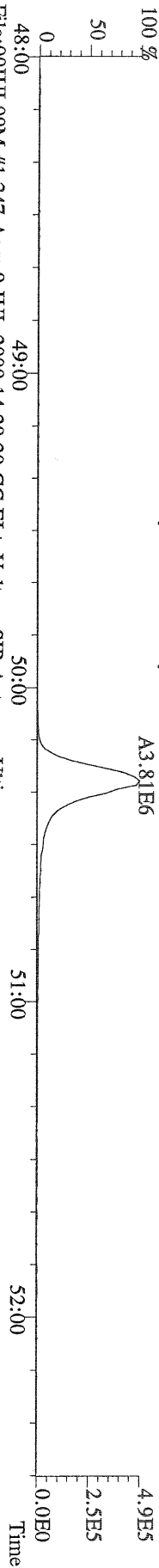
File:09JUL09M #1-541 Acq: 9-JUL-2009 14:29:30 GC EI + Voltage SIR Autospec-Ultima
479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



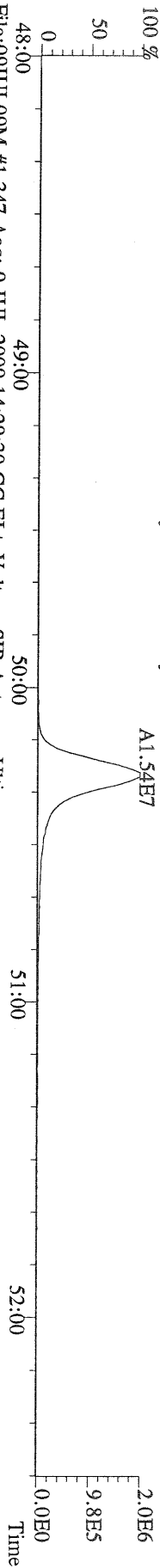
File:09JUL09M #1-347 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:2 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



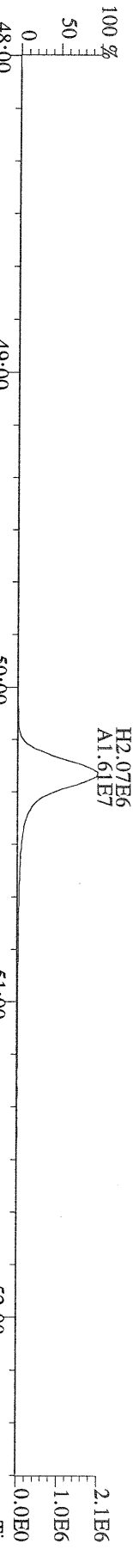
File:09JUL09M #1-347 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:2 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



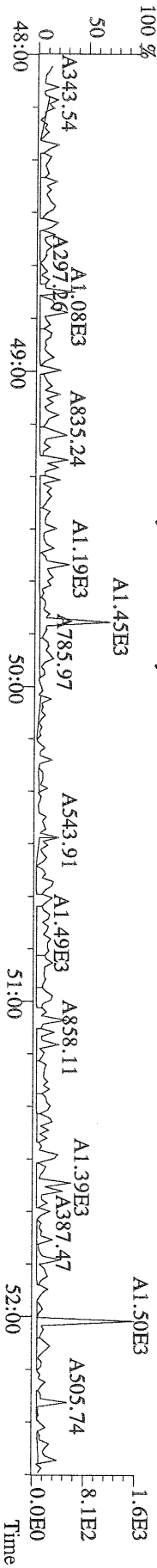
File:09JUL09M #1-347 Acq: 9-JUL-2009 14:29:30 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:2 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



File:09JUL09M #1-347 Acq: 9-JUL-2009 14:29:30 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:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



File:09JUL09M #1-347 Acq: 9-JUL-2009 14:29:30 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:1754-001-0001-LC1 File Text:Frontier Analytical Laboratory



1754-001-0001-1622

USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Matrix (MM5/PUF): PUF/Filter OPR Data Filename: 09JUL09M Sam:3
Ext. Date: 6/23/09 Shift: Day Analysis Date: 9-JUL-09 15:24:53

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

	SPIKE CONC. (ng/mL)	CONC. FOUND (ng/mL)	OPR CONC. LIMITS (ng/mL)
NATIVE ANALYTES			
2,3,7,8-TCDD	5.00	4.80	3.00 - 7.00 ✓
1,2,3,7,8-PeCDD	25.0	24.0	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDD	25.0	25.1	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDD	25.0	27.3	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDD	25.0	24.6	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDD	25.0	25.9	15.0 - 35.0 ✓
OCDD	50.0	53.3	30.0 - 70.0 ✓
2,3,7,8-TCDF	5.00	5.34	3.00 - 7.00 ✓
1,2,3,7,8-PeCDF	25.0	25.2	15.0 - 35.0 ✓
2,3,4,7,8-PeCDF	25.0	26.7	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDF	25.0	26.0	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDF	25.0	26.7	15.0 - 35.0 ✓
2,3,4,6,7,8-HxCDF	25.0	25.9	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDF	25.0	28.1	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDF	25.0	25.9	15.0 - 35.0 ✓
1,2,3,4,7,8,9-HpCDF	25.0	33.3	15.0 - 35.0 ✓
OCDF	50.0	54.8	30.0 - 70.0 ✓

Analyst: Date: 7/10/09

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

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Matrix (MM5/PUF): PUF/Filter OPR Data Filename: 09JUL09M Sam:3
Ext. Date: 6/23/09 Shift: Day Analysis Date: 9-JUL-09 15:24:53

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	94.5	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDD	100	103	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	100	102	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	102	40.0 - 130 ✓
13C-OCDD	200	171	50.0 - 260 ✓
13C-2,3,7,8-TCDF	100	99.7	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	100	102	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	100	104	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	99.2	40.0 - 130 ✓
13C-OCDF	200	198	50.0 - 260 ✓
CLEANUP STANDARD			
13C-1,2,3,7,8,9-HxCDF	100	107	40.0 - 130 ✓
PRE-SPIKE STANDARD			
37Cl-2,3,7,8-TCDD	100	102	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDD	100	96.3	70.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	100	111	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	100	99.2	70.0 - 130 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	126	70.0 - 130 ✓

Analyst:

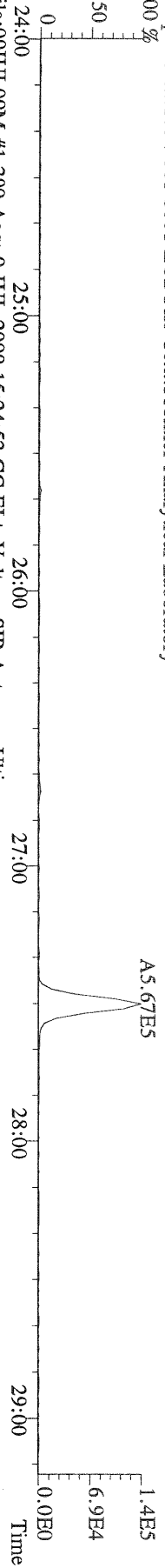
Date: 7/10/09

NATO 1989 Tox: 51.3
WHO 1998 Tox: 63.2

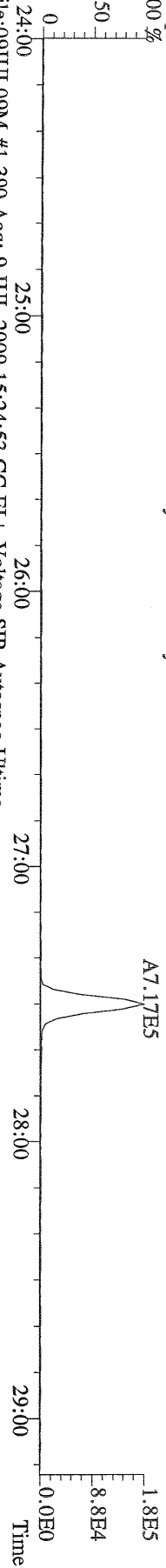
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Date:

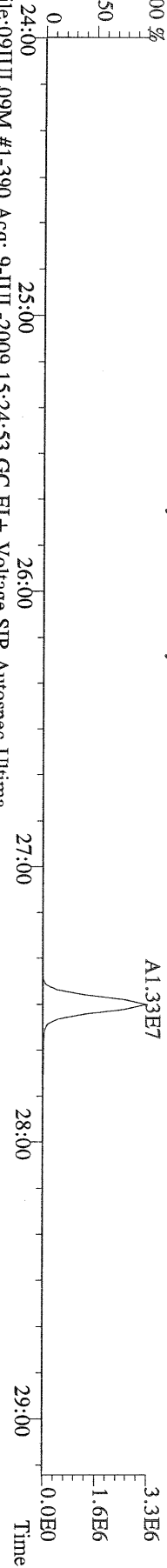
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319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



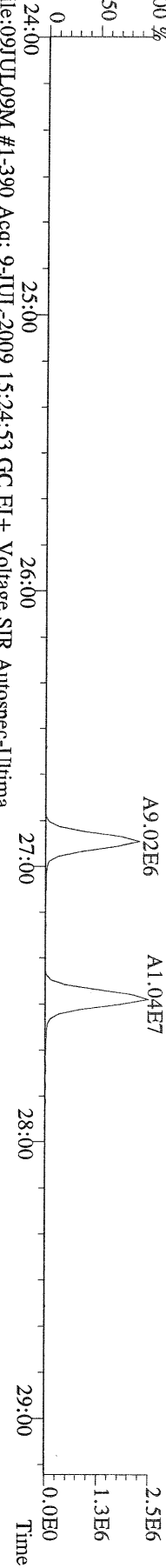
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Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



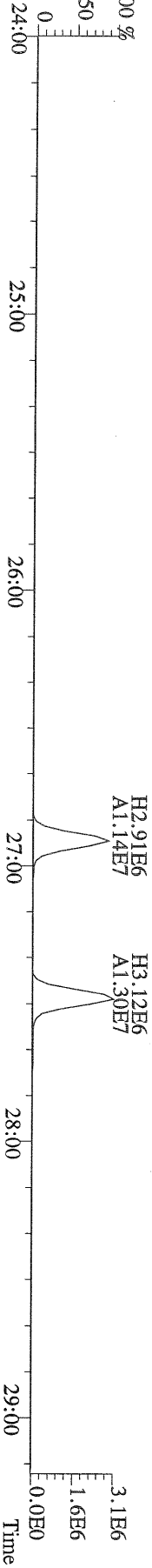
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327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



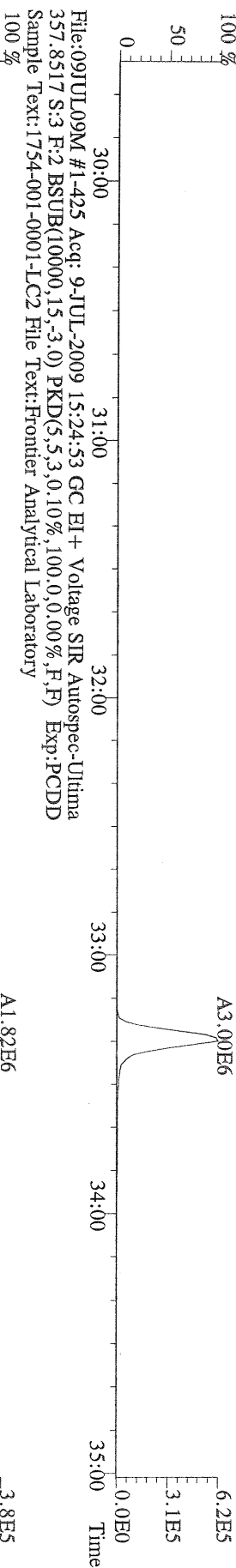
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331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



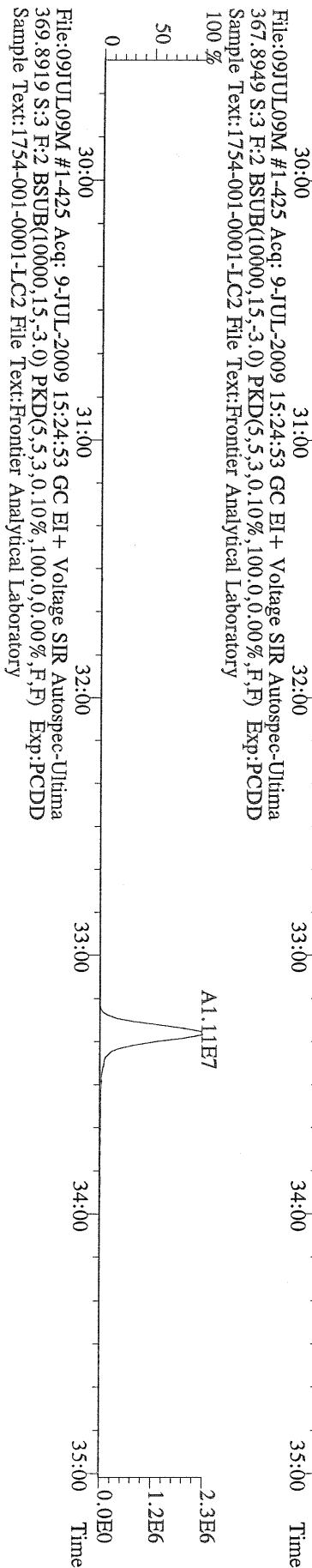
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333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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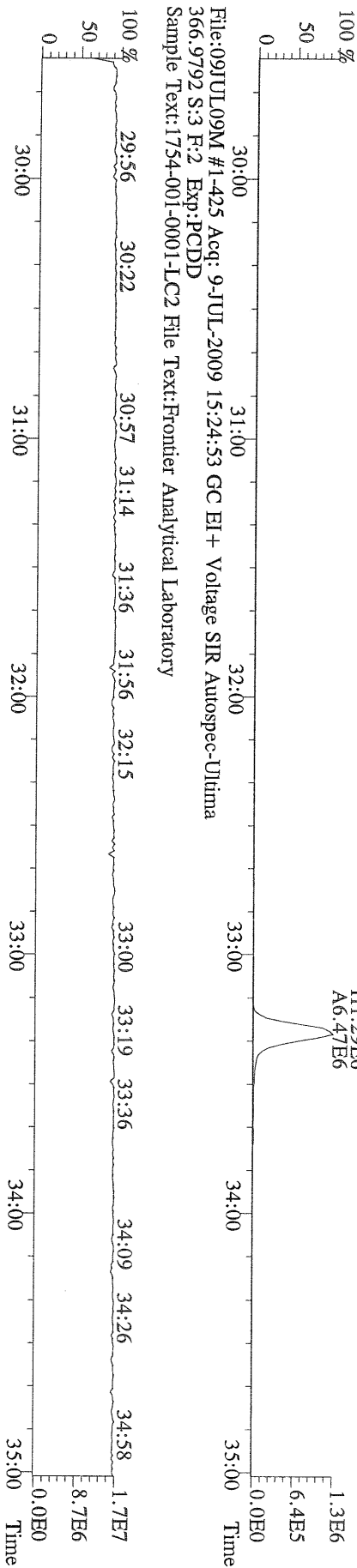
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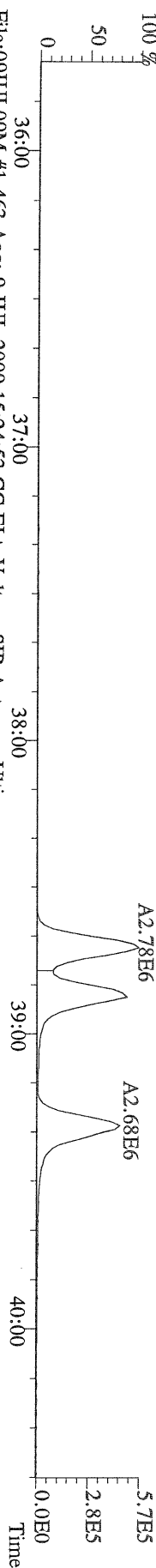
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Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



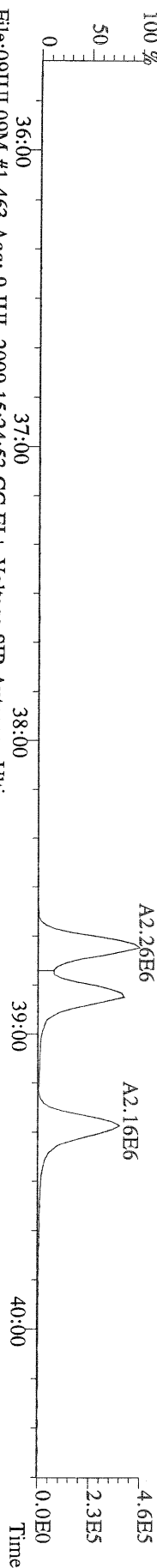
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366.9792 S:3 F:2 Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



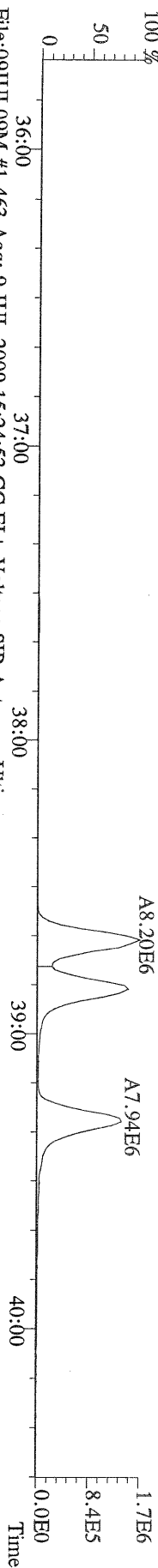
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389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



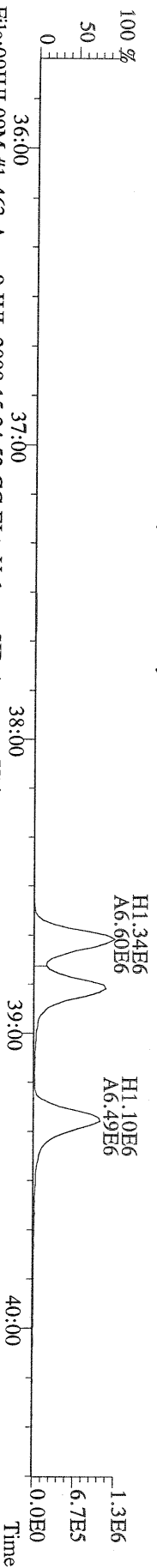
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391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



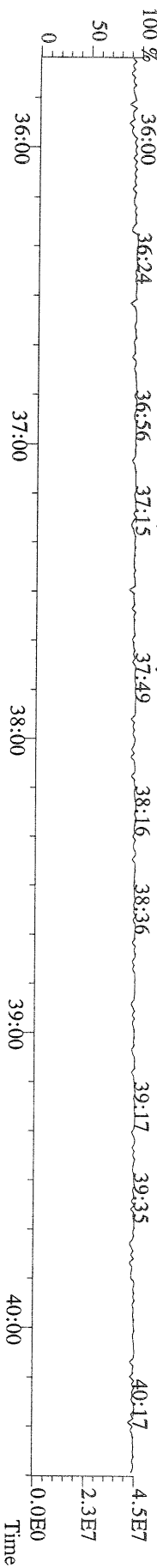
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401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



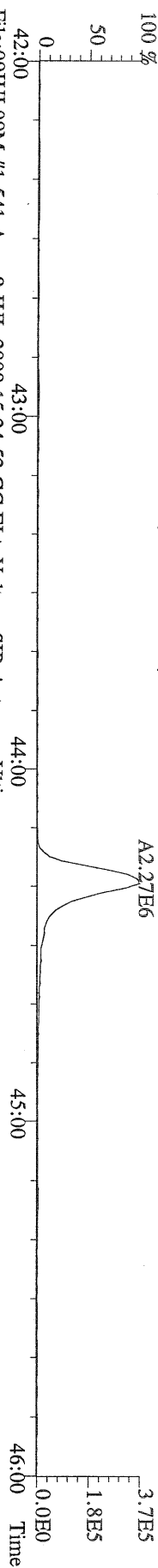
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Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



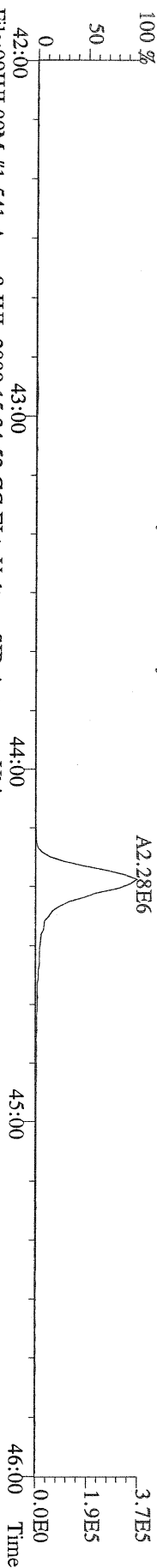
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380.9760 S:3 F:3 Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



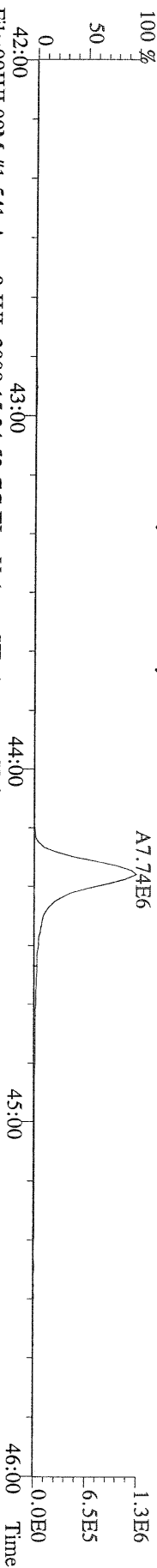
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423.7767 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



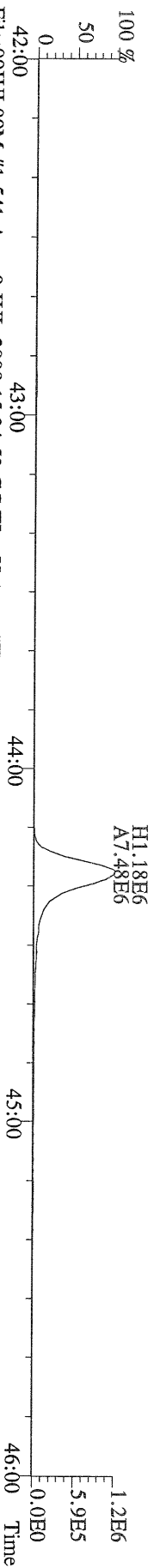
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425.7737 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



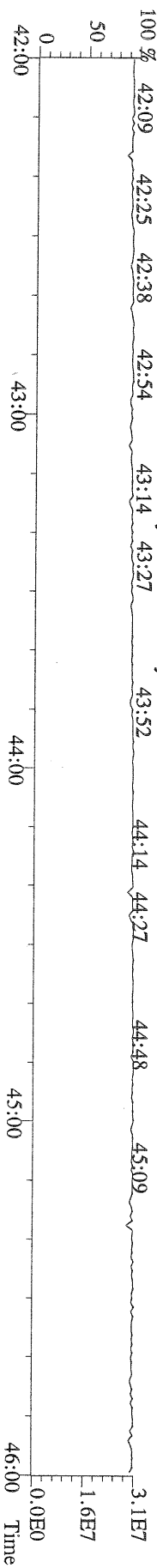
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435.8169 S:3 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



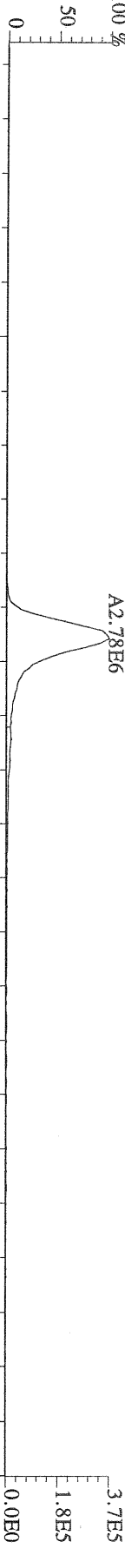
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Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



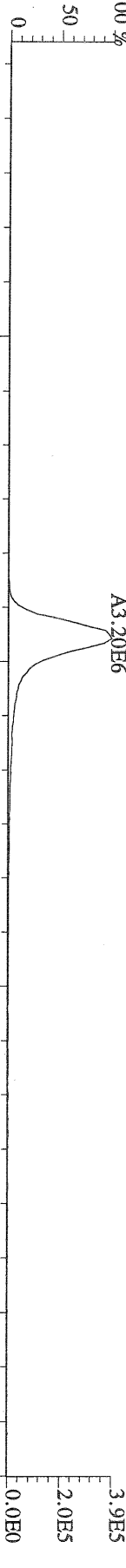
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430.9728 S:3 F:4 Exp:PCDD
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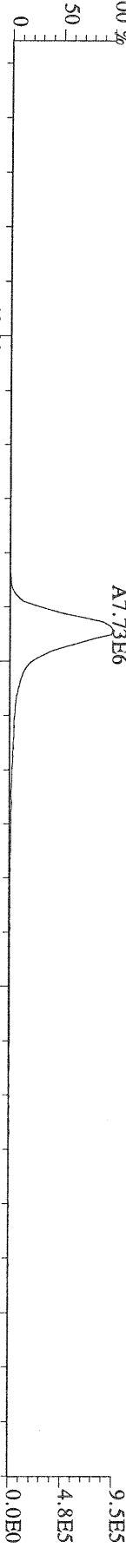
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457.7377 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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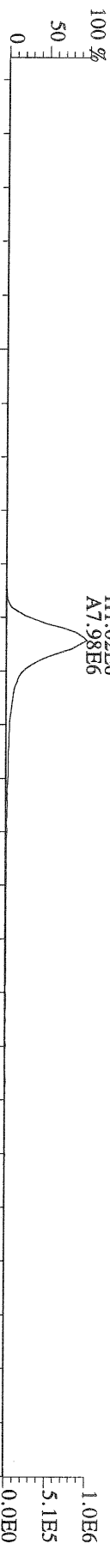
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459.7348 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



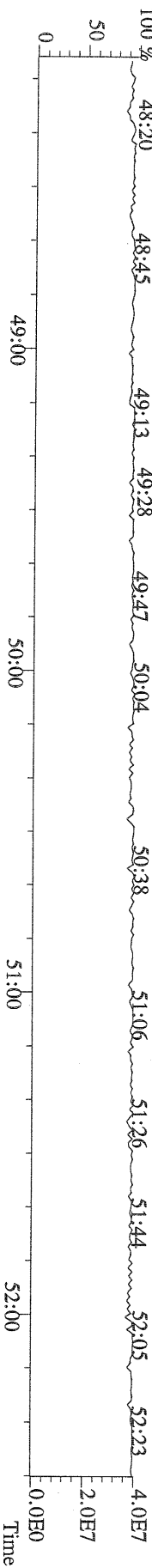
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Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



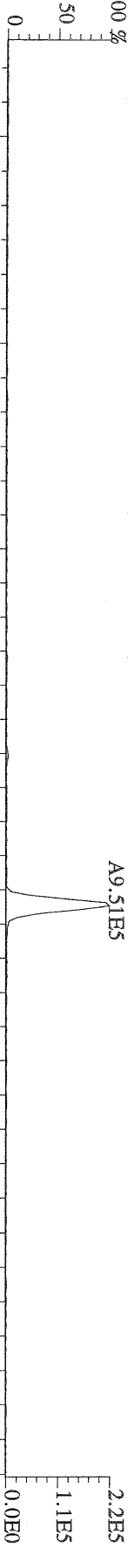
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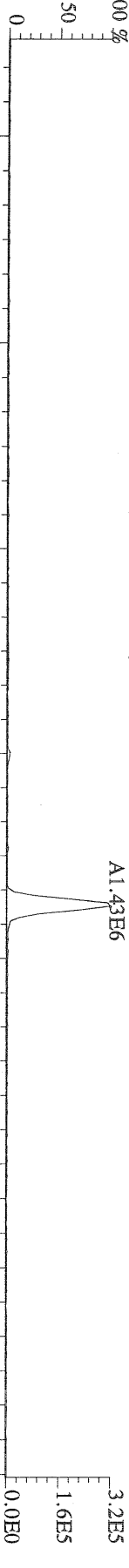
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454.9728 S:3 F:5 Exp:PCDD
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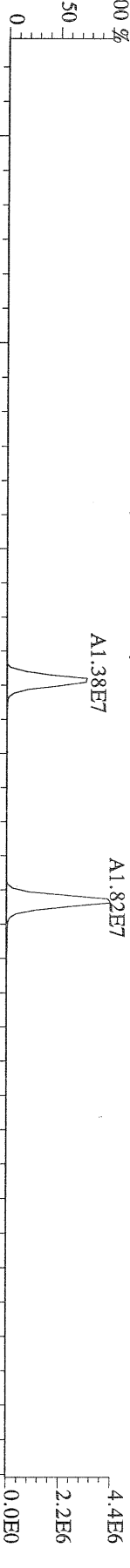
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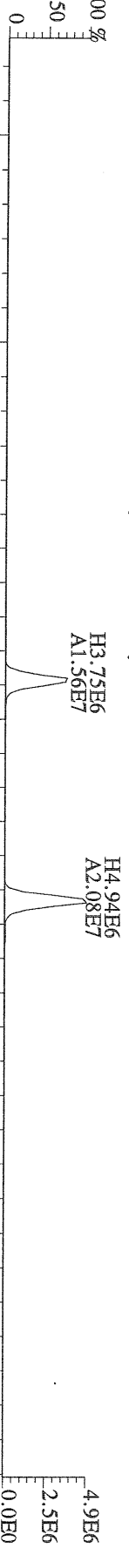
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305.8987 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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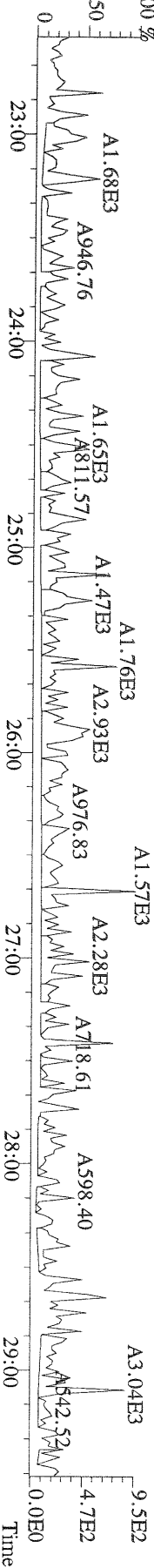
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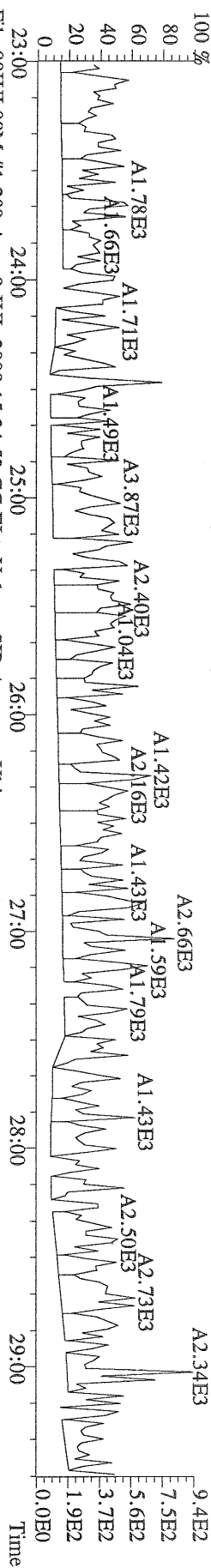
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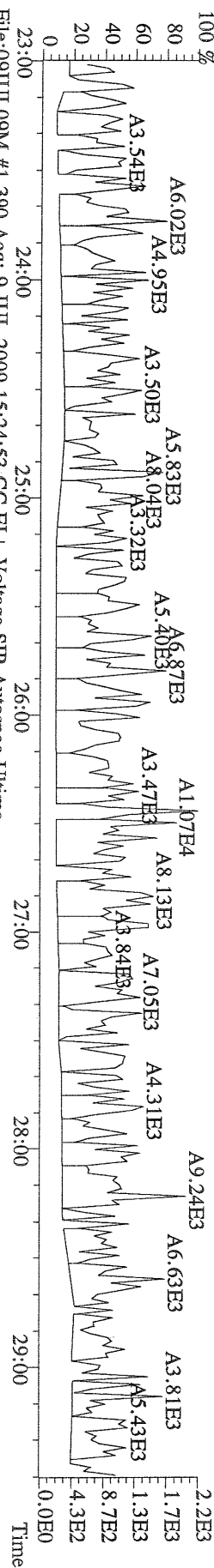
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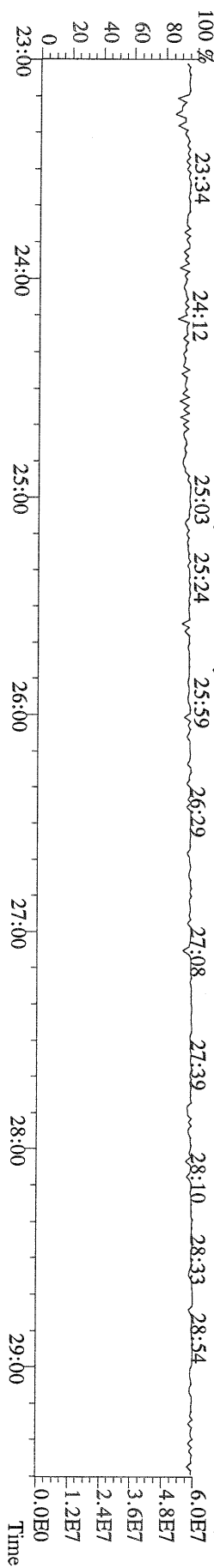
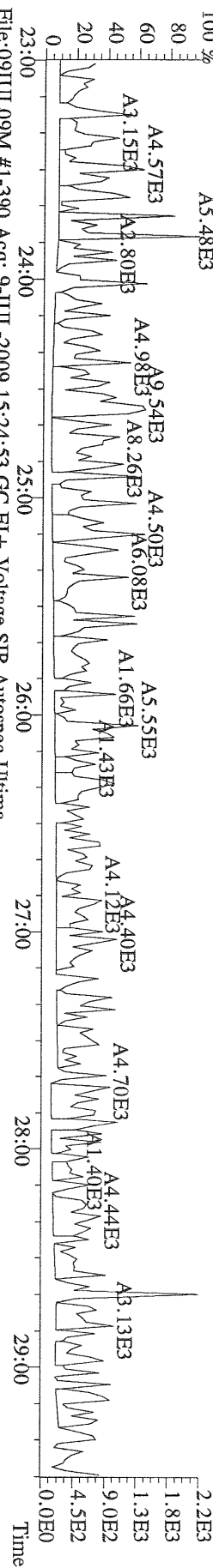
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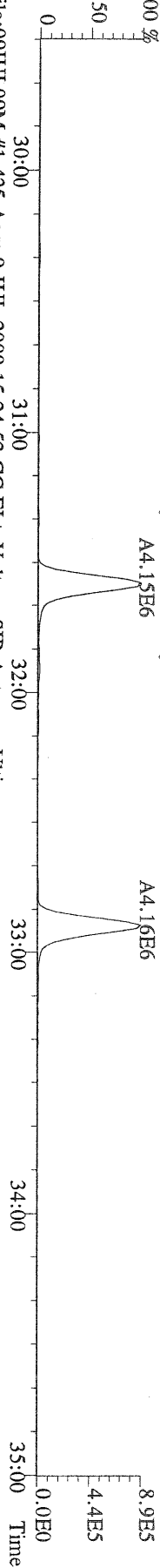
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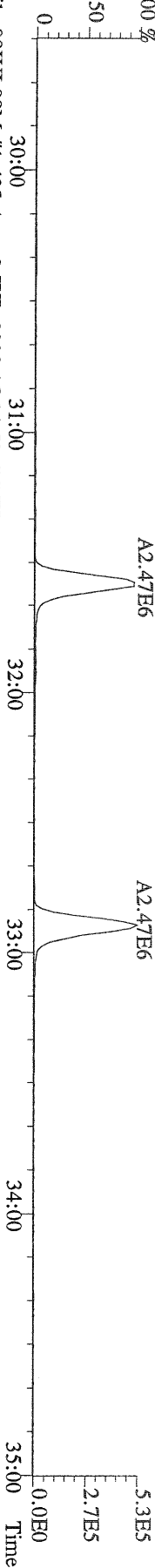
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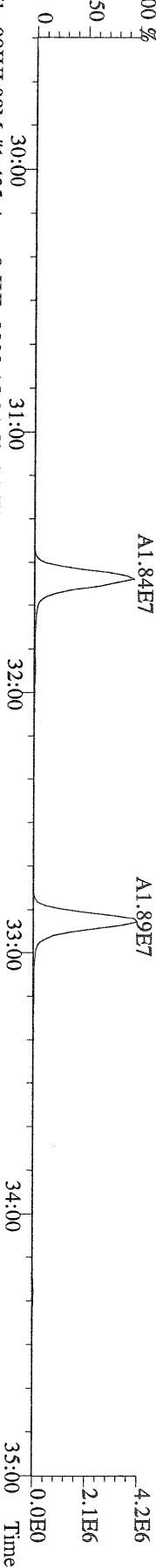
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Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



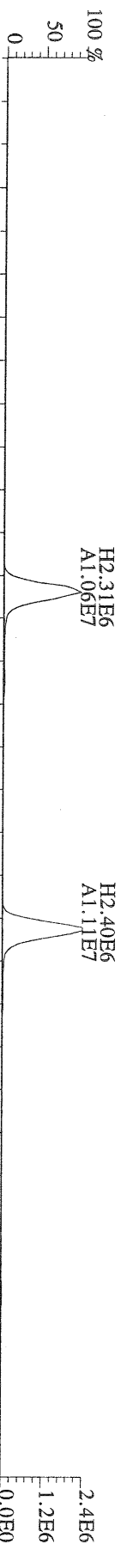
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Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



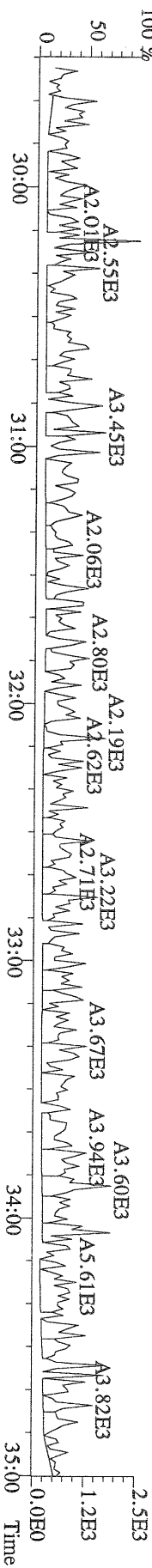
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351.9000 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



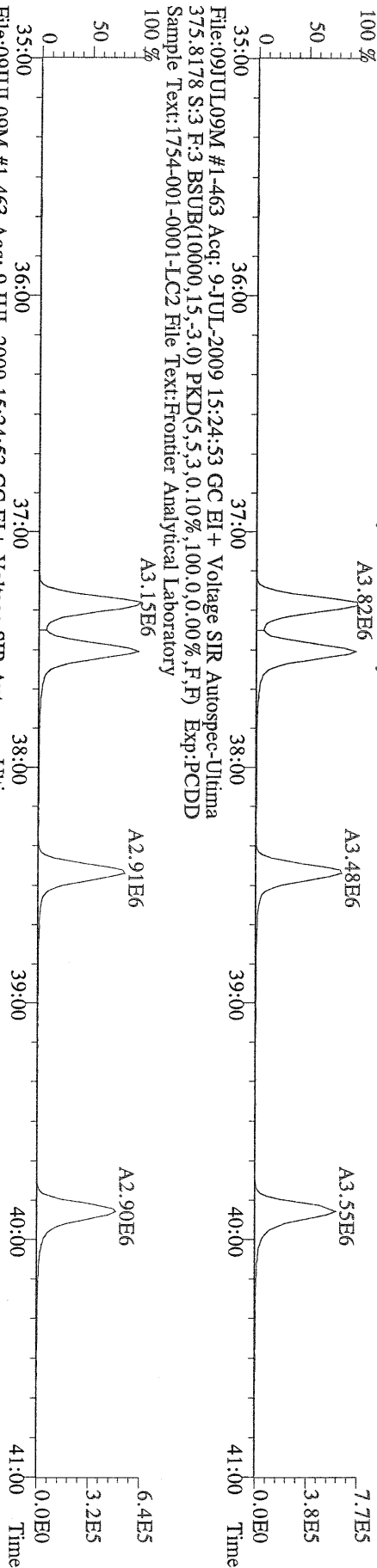
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353.8970 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



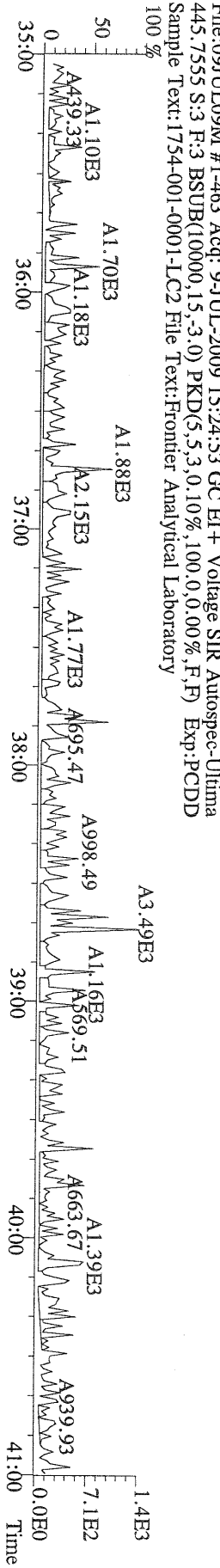
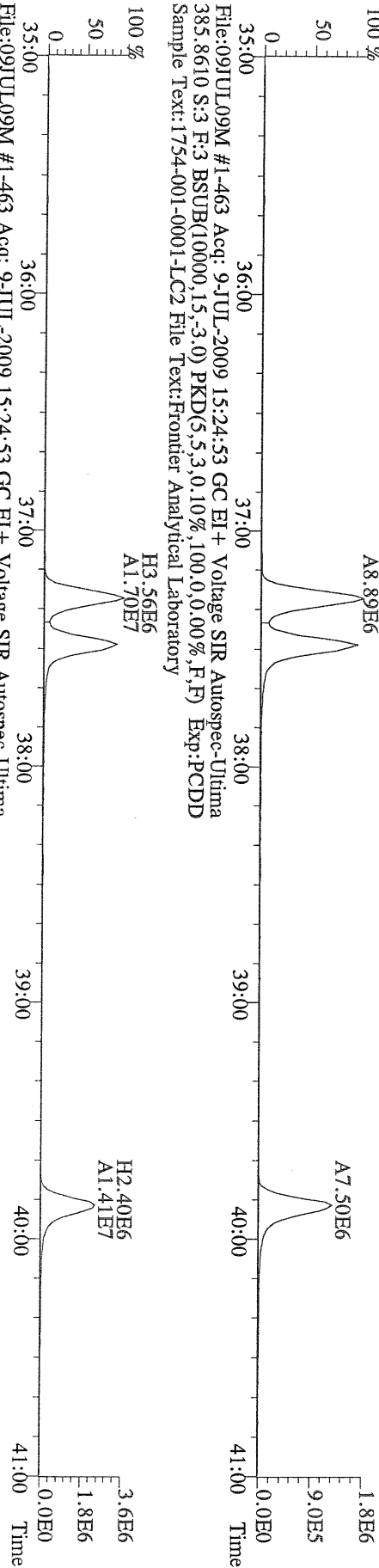
File:09JUL09M #1-425 Acq: 9-JUL-2009 15:24:53 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:3 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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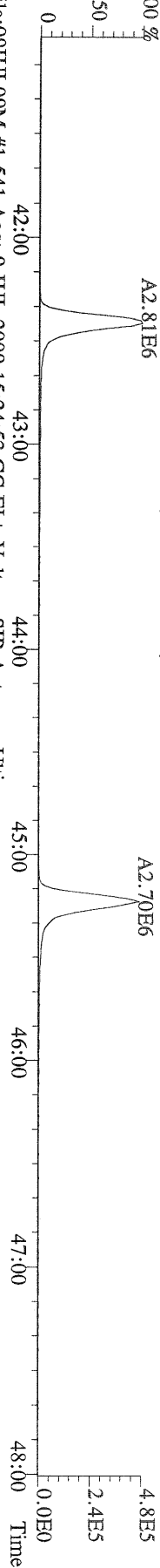
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373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



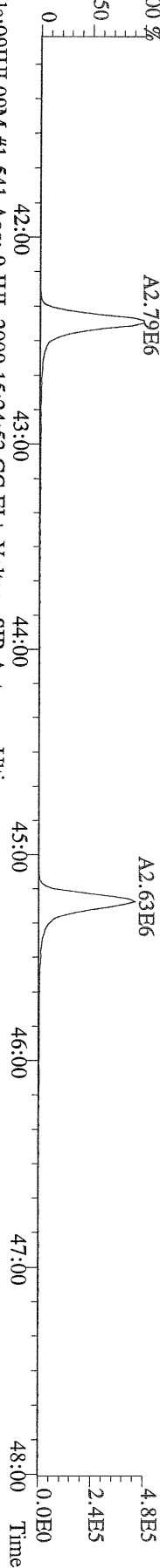
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Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



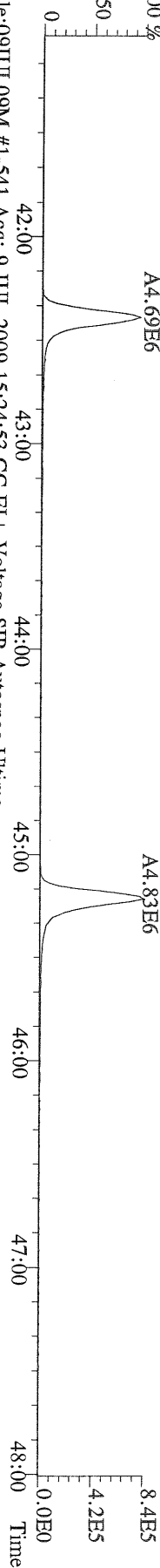
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407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Fronter Analytical Laboratory



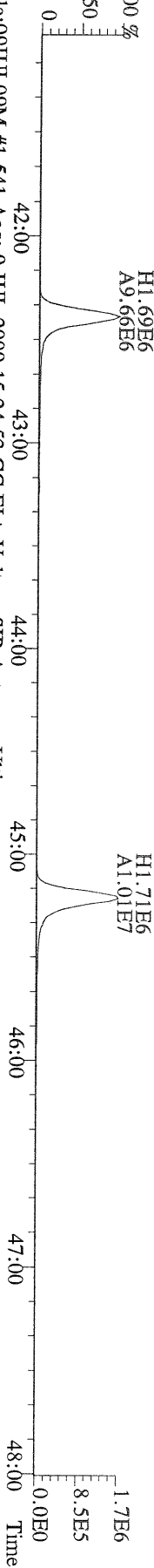
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Sample Text:1754-001-0001-LC2 File Text:Fronter Analytical Laboratory



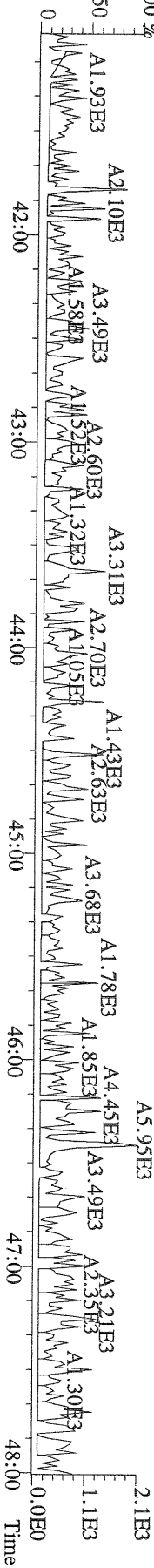
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Sample Text:1754-001-0001-LC2 File Text:Fronter Analytical Laboratory



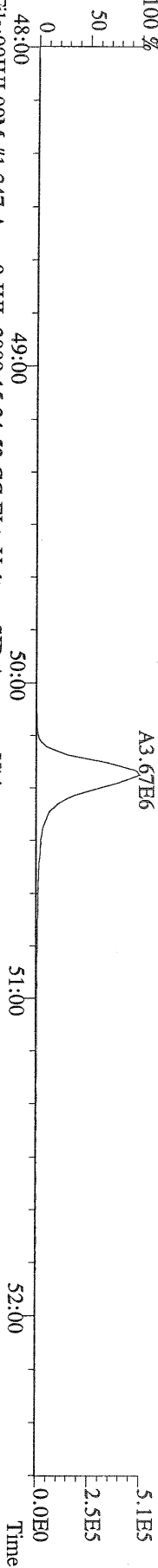
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Sample Text:1754-001-0001-LC2 File Text:Fronter Analytical Laboratory



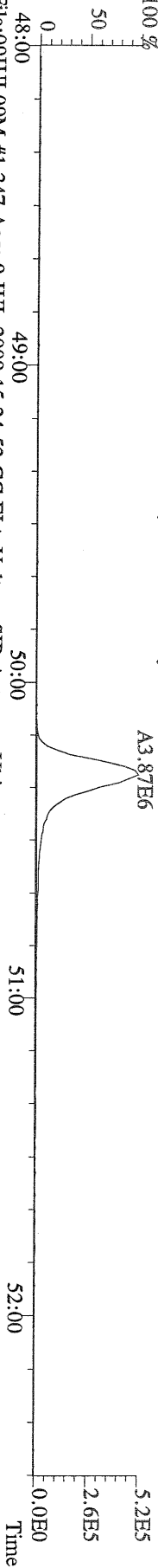
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479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Fronter Analytical Laboratory



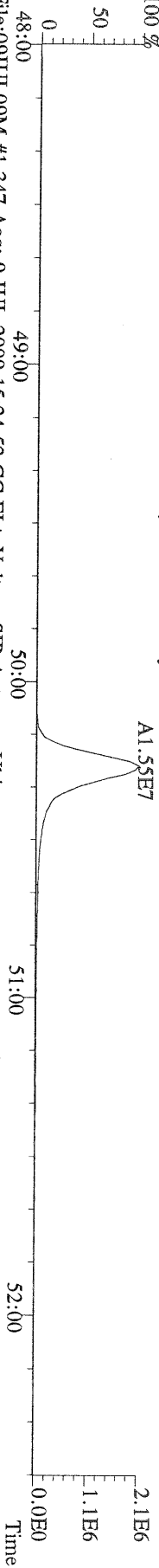
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441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



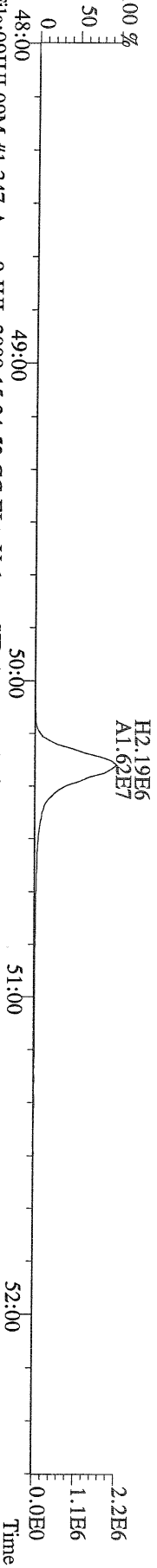
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443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



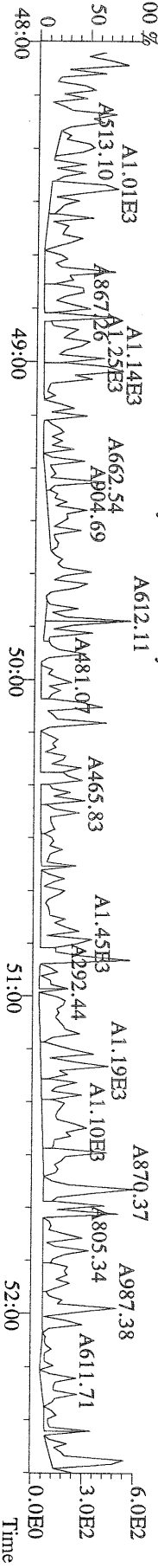
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453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



File:09JUL09M #1-347 Acq: 9-JUL-2009 15:24:53 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:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



File:09JUL09M #1-347 Acq: 9-JUL-2009 15:24:53 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:1754-001-0001-LC2 File Text:Frontier Analytical Laboratory



ICaI: AIRFAI 3-6-29-09

Client ID: OFF-03-061809

ConCal: ST070909M1

EndCal : ST070909M2

Results: 5557

GC Column: DB5

Amount: 1.000 ✓

NATO 1989 Tox: 0.0253

WHO 1998 Tox:0.00253

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DI
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2,3,7,8-TCDD	*	*	n NotFnd	1.14	*	2.50	776	2.14
1,2,3,7,8-PeCDD	*	*	n NotFnd	1.14	*	2.50	252	1.76
1,2,3,4,7,8-HxCDD	*	*	n NotFnd	1.37	*	2.50	523	3.05
1,2,3,6,7,8-HxCDD	*	*	n NotFnd	1.24	*	2.50	523	3.38
1,2,3,7,8,9-HxCDD	*	*	n NotFnd	1.35	*	2.50	523	3.11
1,2,3,4,6,7,8-HpCDD	*	*	n NotFnd	1.15	*	2.50	1220	8.55
OCDD	6.80e+04	0.81	y 49:56	1.43	25.3	J 2.50	-	*

2,3,7,8-TCDF	*	* n NotFnd	1.14	*	2.50	1310	2.37
1,2,3,7,8-PeCDF	*	* n NotFnd	0.90	*	2.50	651	3.03
2,3,4,7,8-PeCDF	*	* n NotFnd	0.86	*	2.50	651	3.20
1,2,3,4,7,8-HxCDF	*	* n NotFnd	1.02	*	2.50	556	1.71
1,2,3,6,7,8-HxCDF	*	* n NotFnd	1.04	*	2.50	556	1.68
2,3,4,6,7,8-HxCDF	*	* n NotFnd	0.94	*	2.50	556	1.86
1,2,3,7,8,9-HxCDF	*	* n NotFnd	0.88	*	2.50	556	1.99
1,2,3,4,6,7,8-HpCDF	*	* n NotFnd	1.51	*	2.50	772	3.38
1,2,3,4,7,8,9-HpCDF	*	* n NotFnd	1.11	*	2.50	772	4.57
OCDF	*	* n NotFnd	0.87	*	2.50	826	10.0

						Rec
13C-2,3,7,8-TCDD	2.46e+07	0.79	y	27:29	1.21	3910
13C-1,2,3,7,8-PeCDD	1.79e+07	1.69	y	33:19	0.83	4140
13C-1,2,3,6,7,8-HxCDD	1.58e+07	1.24	y	38:51	0.99	4050
13C-1,2,3,4,6,7,8-HpCDD	1.59e+07	1.04	y	44:18	1.03	3960
13C-OCDD	1.51e+07	0.94	y	49:55	0.64	6040

13C-2,3,7,8-TCDF	3.86e+07	0.88	y	26:44	1.33	3880	97.0
13C-1,2,3,7,8-PeCDF	3.05e+07	1.71	y	31:34	0.96	4230	106
13C-1,2,3,6,7,8-HxCDF	2.66e+07	0.51	y	37:29	1.75	3890	97.3
13C-1,2,3,4,6,7,8-HpCDF	1.36e+07	0.47	y	42:24	1.00	3470	86.7
13C-OCDF	2.91e+07	0.95	y	50:18	1.11	6700	83.8

13C-1,2,3,7,8,9-HxCDF	2.29e+07	0.52 y	39:52	1.40	4180	104
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37Cl-2,3,7,8-TCDD	1.41e+07		27:31	0.56	4120	103
13C-1,2,3,4,7,8-HxCDD	1.56e+07	1.24 y	38:41	1.05	3770	94.2
13C-2,3,4,7,8-PeCDF	3.00e+07	1.74 y	32:53	0.93	4230	106
13C-1,2,3,4,7,8-HxCDF	2.56e+07	0.52 y	37:17	1.00	3870	96.7
13C-1,2,3,4,7,8,9-HpCDF	1.41e+07	0.48 y	45:13	0.82	5050	126

13C-1,2,3,4-TCDD	2.08e+07	0.79	y	26:55	-	49.8
13C-2,3,7,8-TCDF	2.99e+07	0.88	y	25:40	-	44.4
13C-1,2,3,7,8,9-HxCDD	1.56e+07	1.20	y	39:18	-	53.0

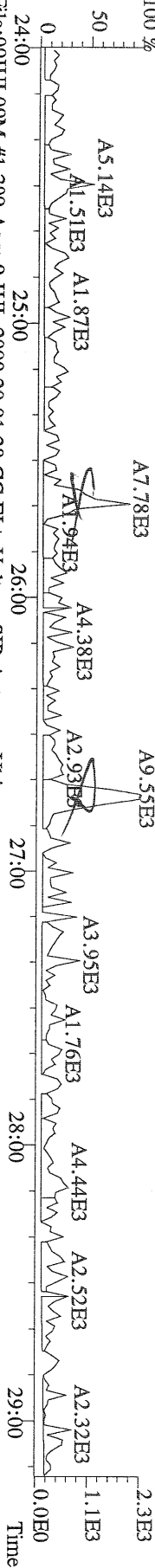
					Fac	Noise	DL	#Hom
Total Tetra-Dioxins	*	NotFnd	1.14	*	2.50	776	2.14	0
Total Penta-Dioxins	*	NotFnd	1.14	*	2.50	252	1.76	0
Total Hexa-Dioxins	*	NotFnd	1.32	*	2.50	523	3.38	0
Total Hepta-Dioxins	*	NotFnd	1.15	*	2.50	1220	8.55	0

Total Tetra-Furans	*	NotFnd	1.14	*	2.50	1310	2.37	0	
1st Fn. Tot Penta-Furans	*	NotFnd	0.88	*	2.50	651	3.20	0	PeCDF
Total Penta-Furans	*	NotFnd	0.88	*	2.50	651	3.20	0	0.00
Total Hexa-Furans	*	NotFnd	0.97	*	2.50	556	1.99	0	
Total Hepta-Furans	*	NotFnd	1.31	*	2.50	772	4.57	0	

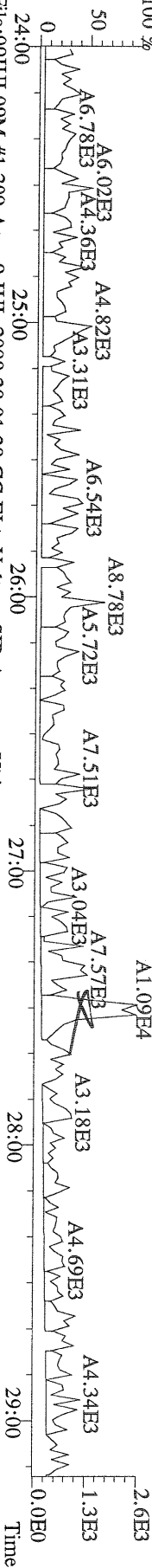
Analyst: _____

Date: 7/10/09

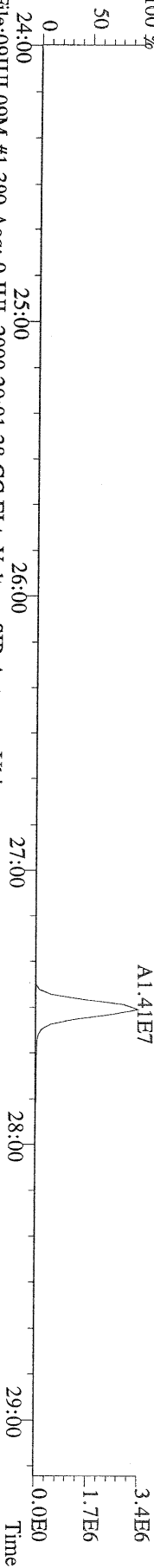
File:09JUL09M #1-390 Acq: 9-JUL-2009 20:01:38 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



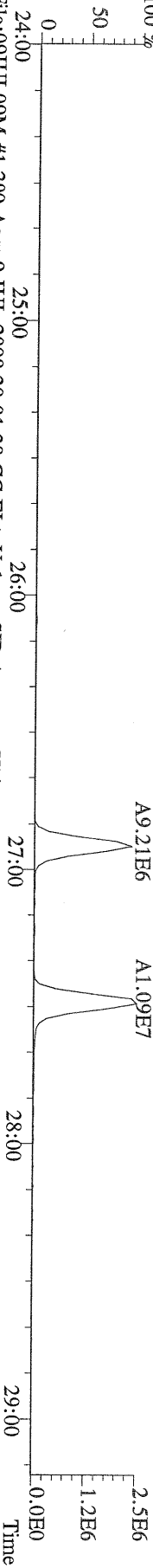
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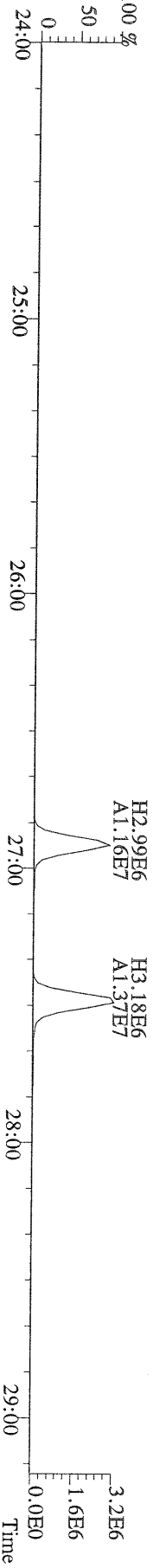
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327.8847 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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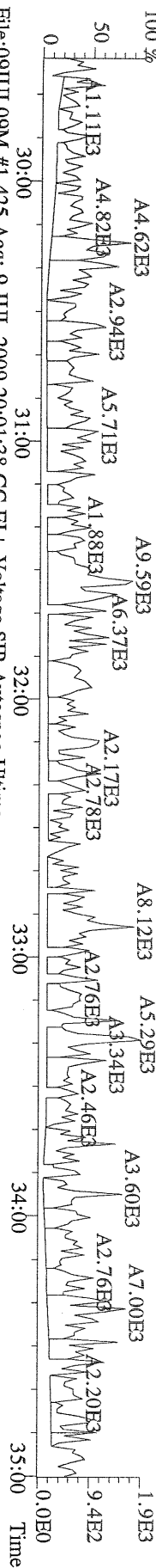
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331.9368 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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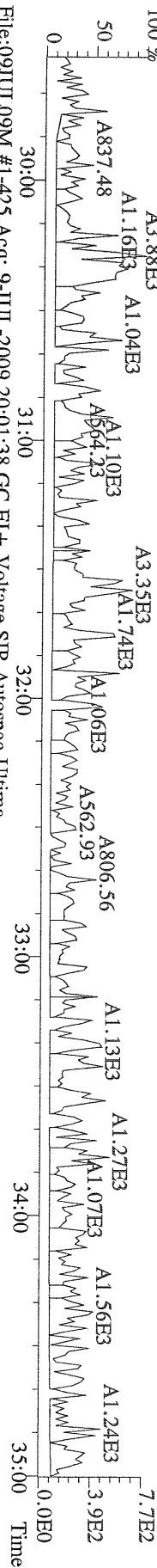
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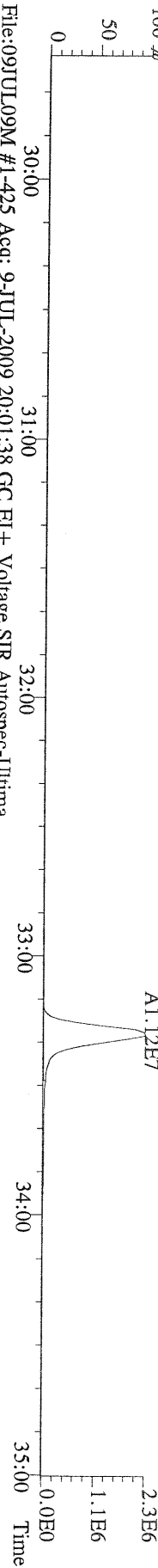
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355.8546 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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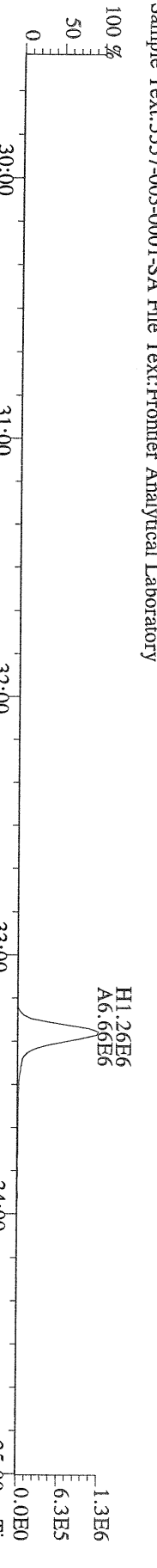
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357.8517 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



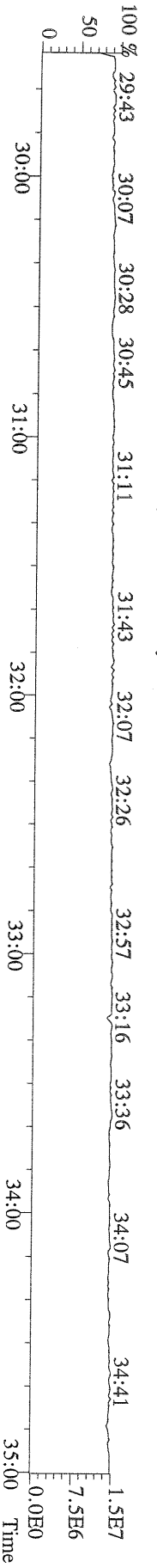
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367.8949 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



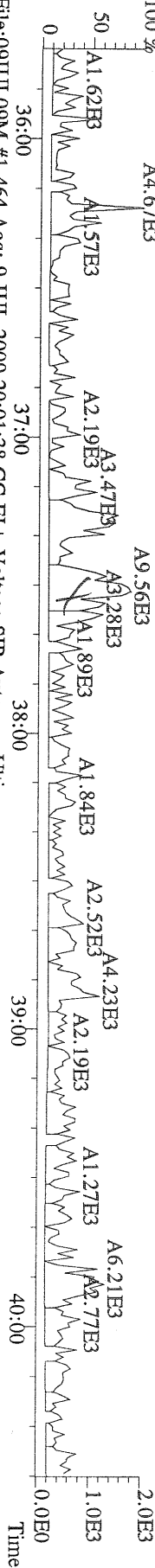
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369.8919 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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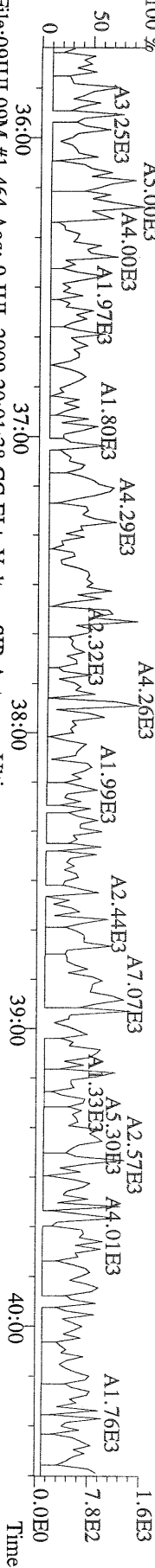
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366.9792 S:8 F:2 Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



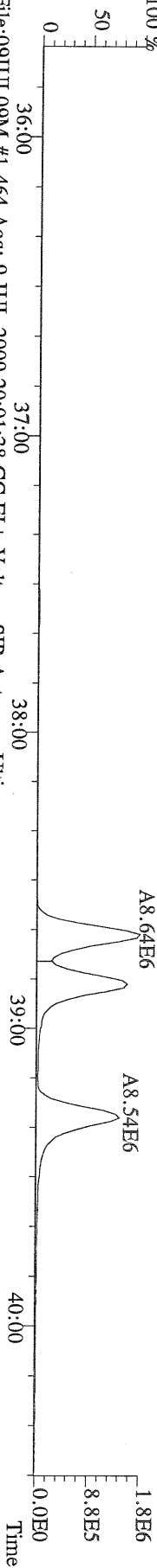
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389.8156 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



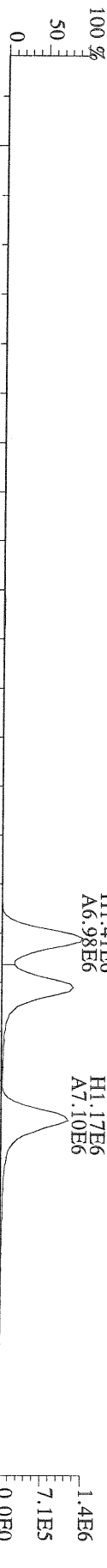
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391.8127 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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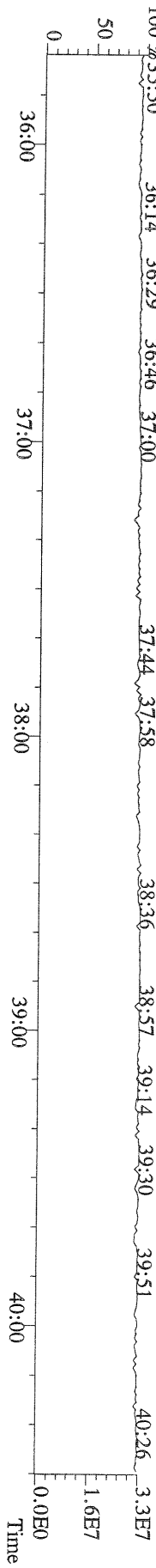
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401.8559 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



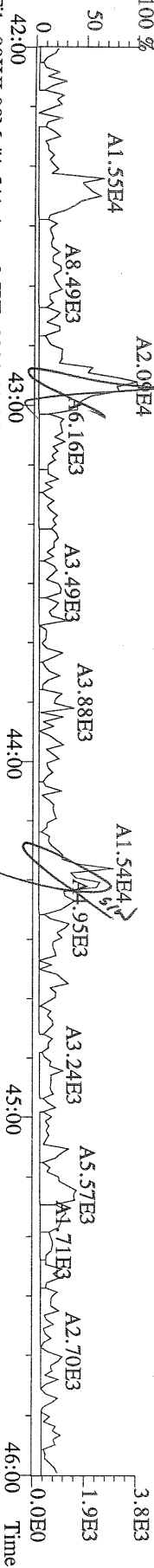
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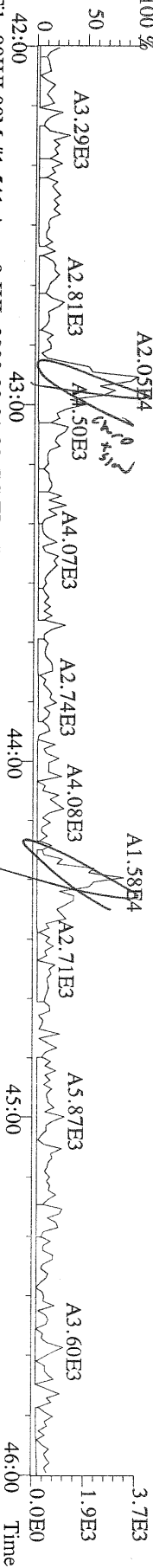
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380.9760 S:8 F:3 Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



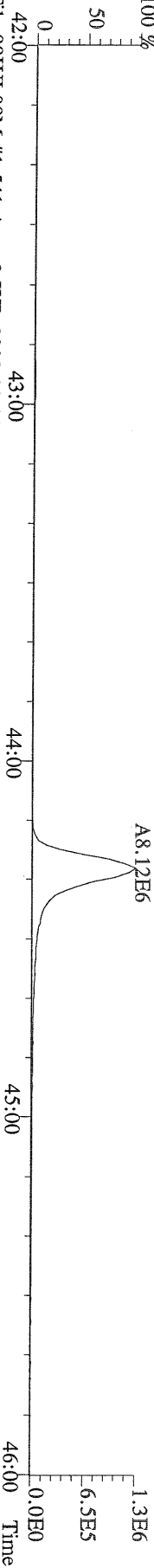
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423.7767 S:8 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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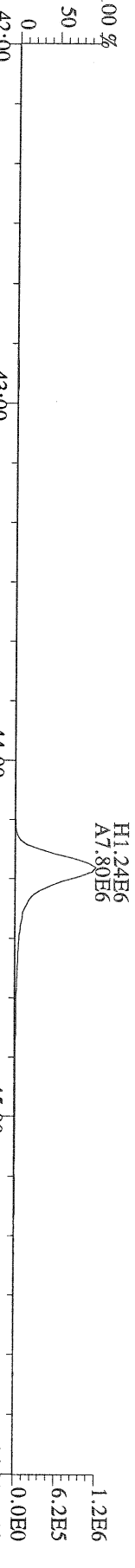
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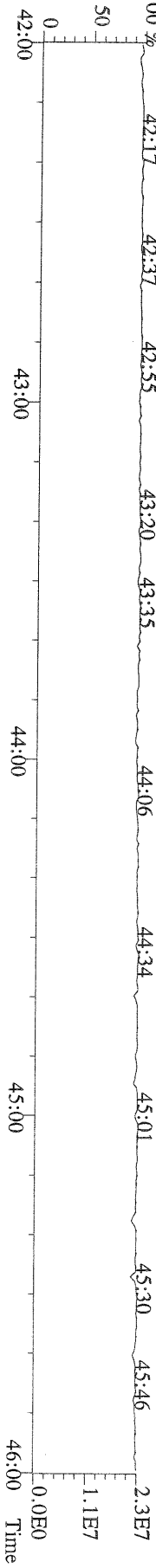
File:09JUL09M #1-541 Acq: 9-JUL-2009 20:01:38 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:8 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



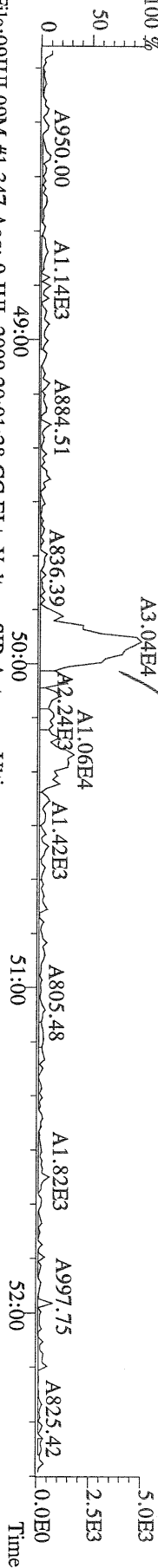
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437.8140 S:8 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



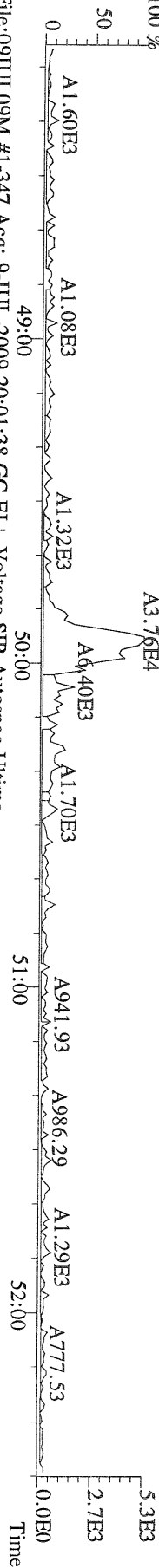
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430.9728 S:8 F:4 Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



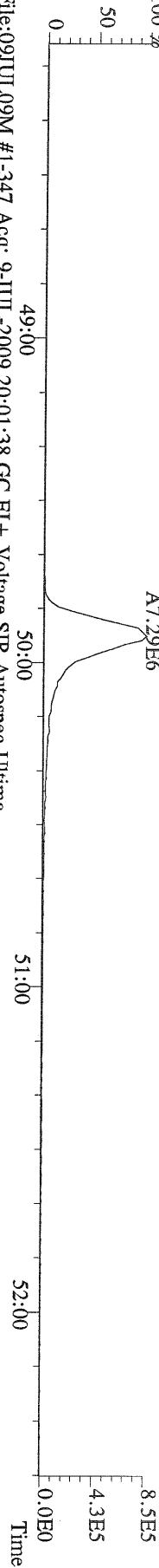
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457.7377 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



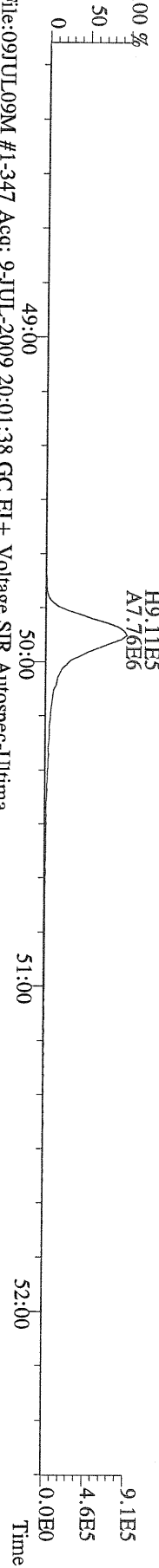
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459.7348 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



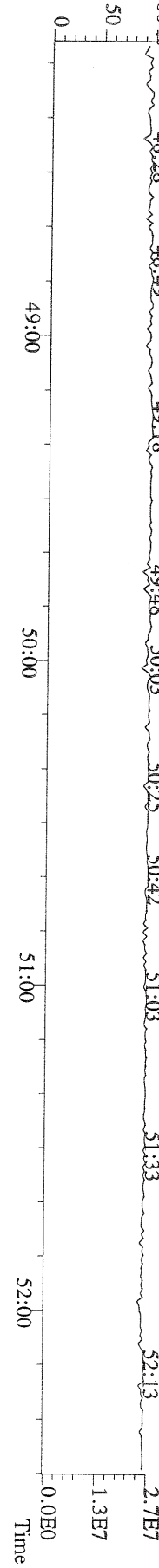
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469.7780 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



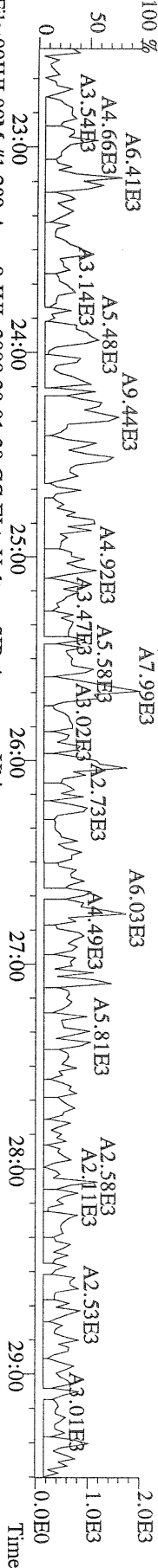
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471.7750 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



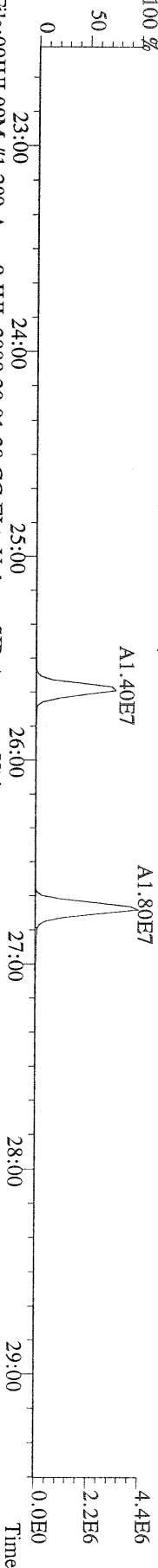
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Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



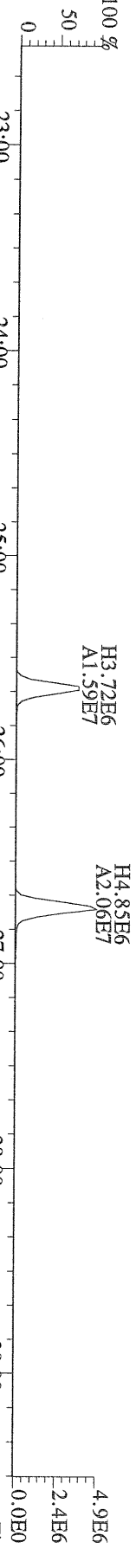
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303.9016 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



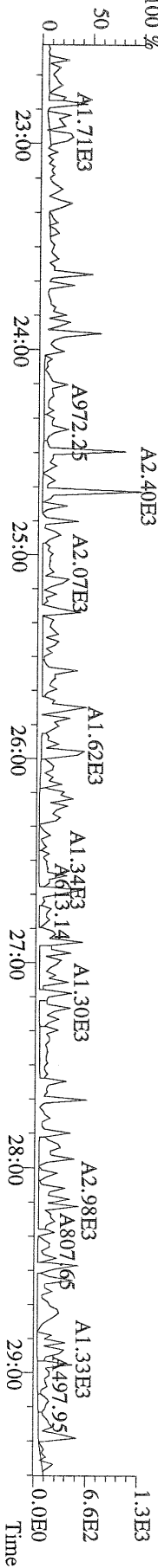
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315.9419 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



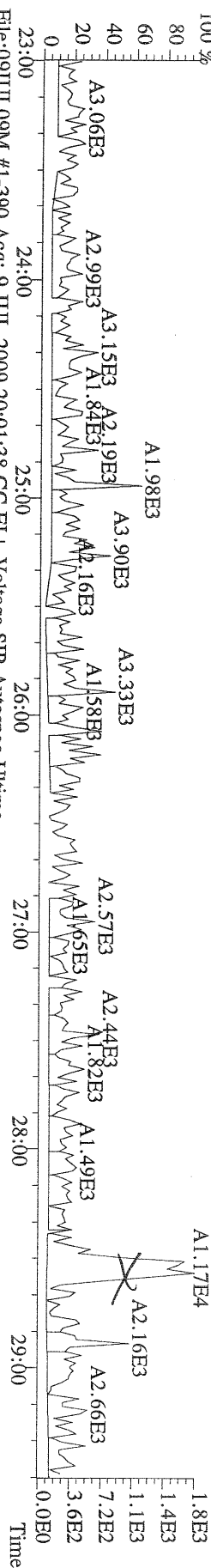
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317.9389 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



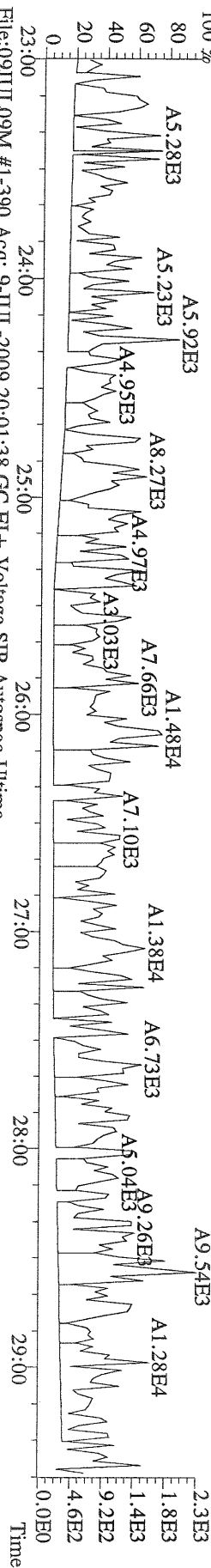
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375.8364 S:8 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



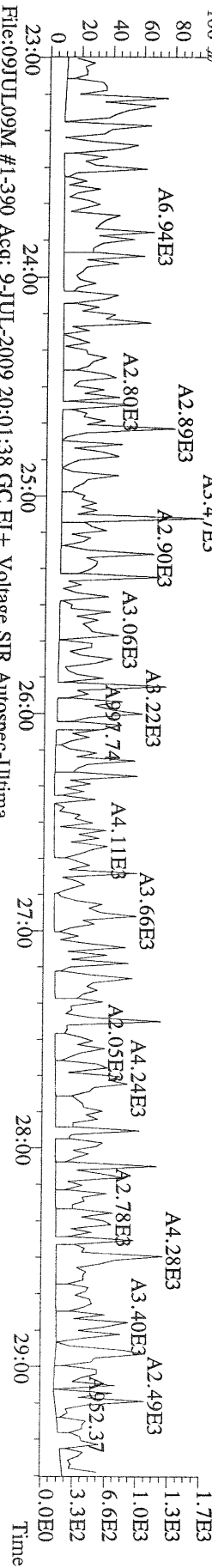
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339.8597 S:8 BSUB(10000,15,-3.0) PKD(5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



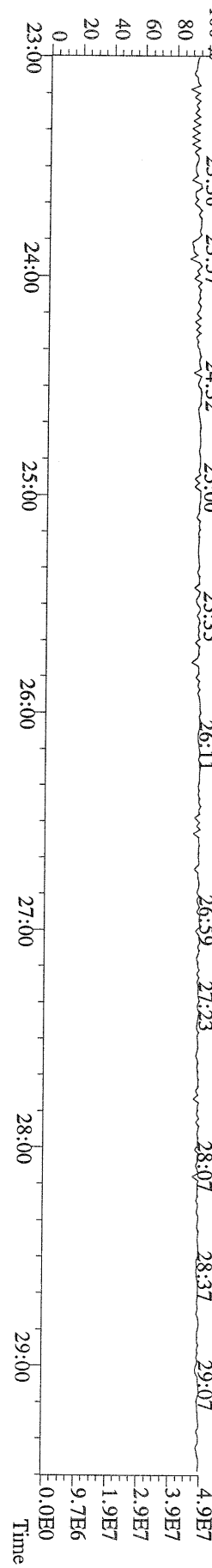
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341.8568 S:8 BSUB(10000,15,-3.0) PKD(5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



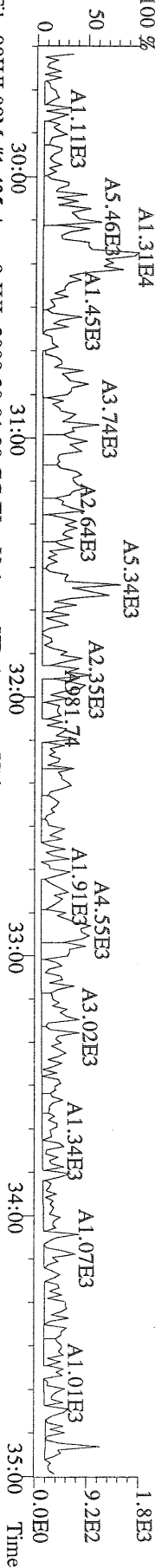
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409.7974 S:8 BSUB(10000,15,-3.0) PKD(5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



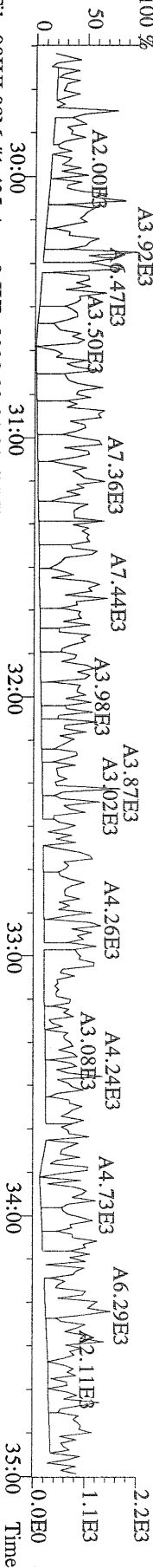
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330.9792 S:8 Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



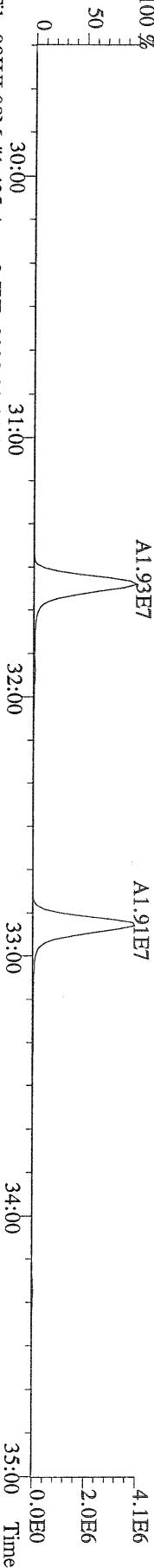
File:09JUL09M #1-425 Acq: 9-JUL-2009 20:01:38 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



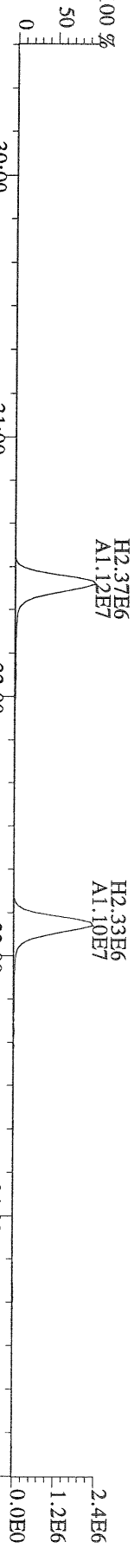
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341.8568 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



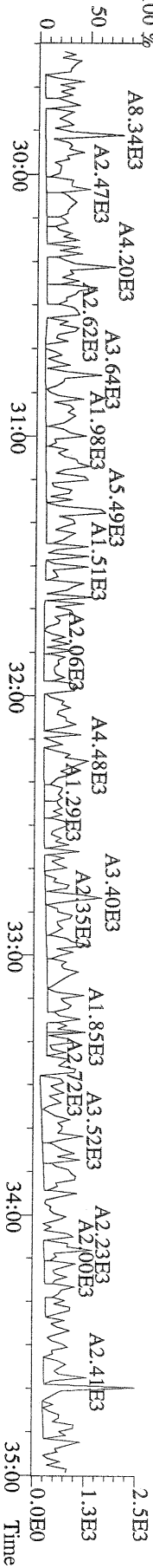
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351.9000 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



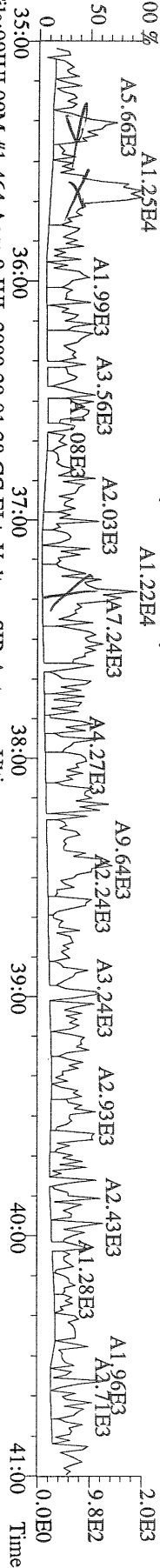
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353.8970 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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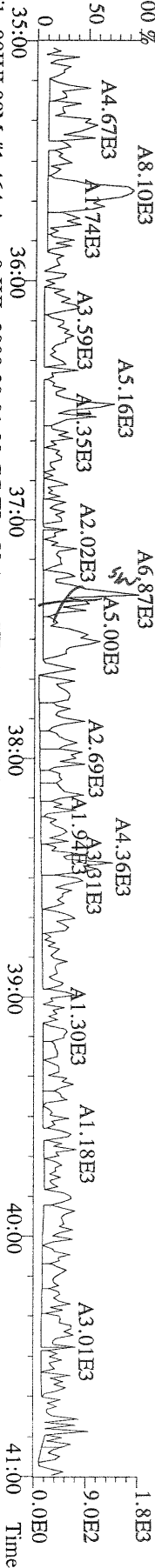
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409.7974 S:8 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



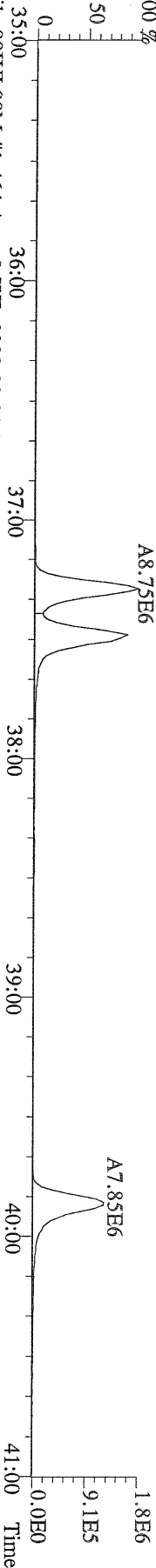
File:09JUL09M #1-464 Acq: 9-JUL-2009 20:01:38 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Fronter Analytical Laboratory



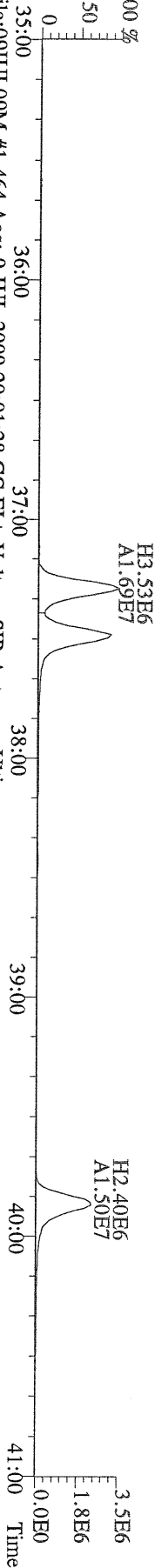
File:09JUL09M #1-464 Acq: 9-JUL-2009 20:01:38 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Fronter Analytical Laboratory



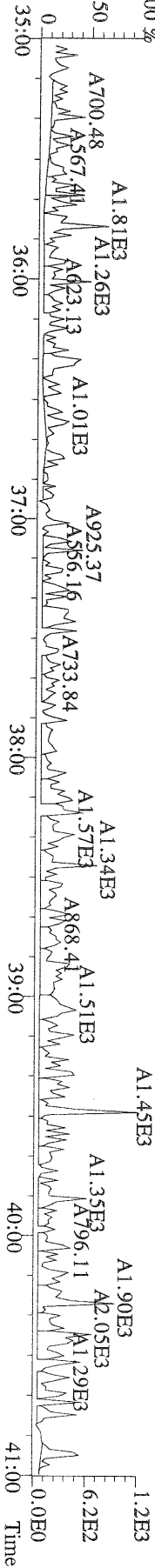
File:09JUL09M #1-464 Acq: 9-JUL-2009 20:01:38 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Fronter Analytical Laboratory



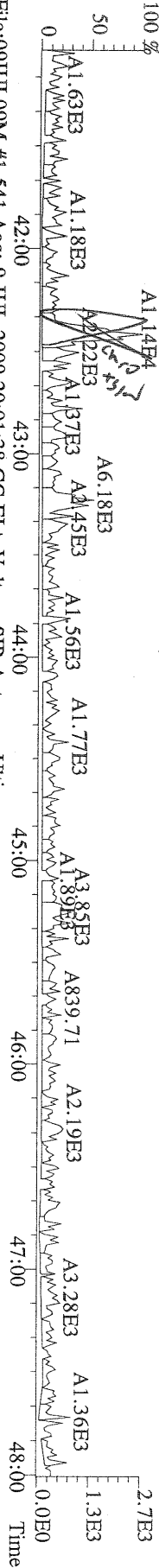
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385.8610 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Fronter Analytical Laboratory



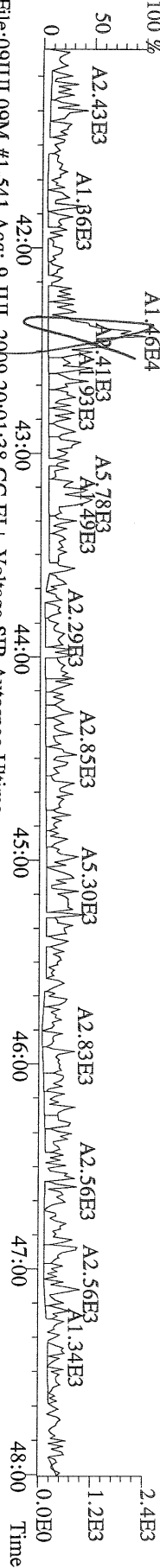
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445.7555 S:8 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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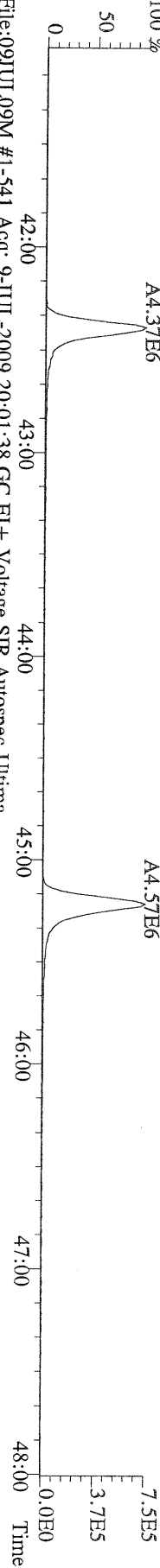
File:09JUL09M #1-541 Acq: 9-JUL-2009 20:01:38 GC EI+ Voltage SIR Autospec-Utima
407.7818 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



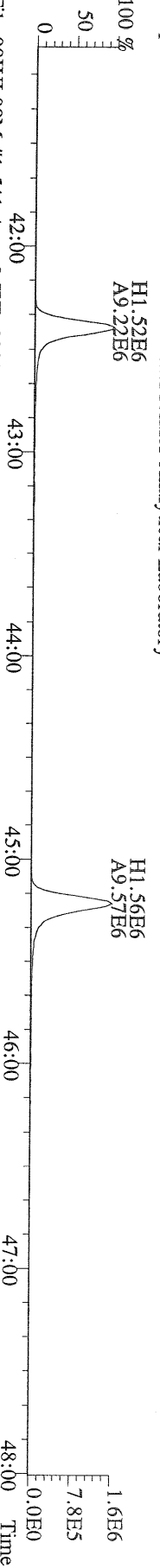
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409.7788 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



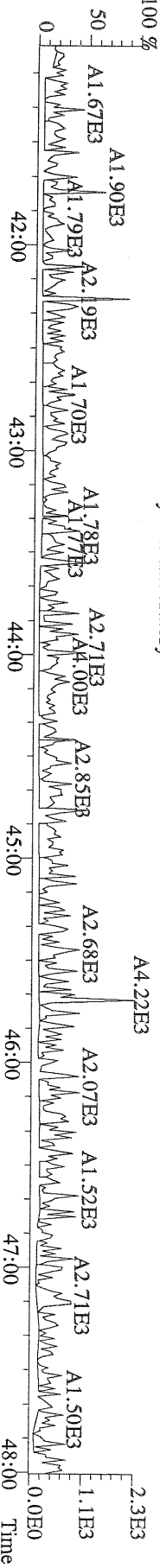
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417.8253 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



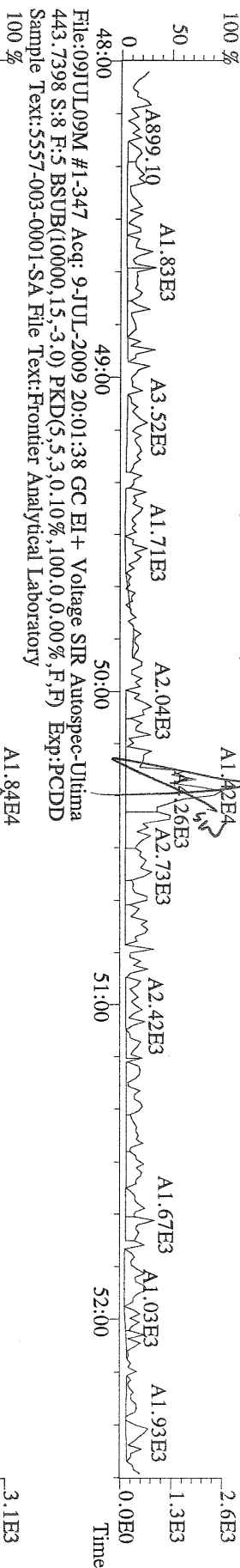
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419.8220 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



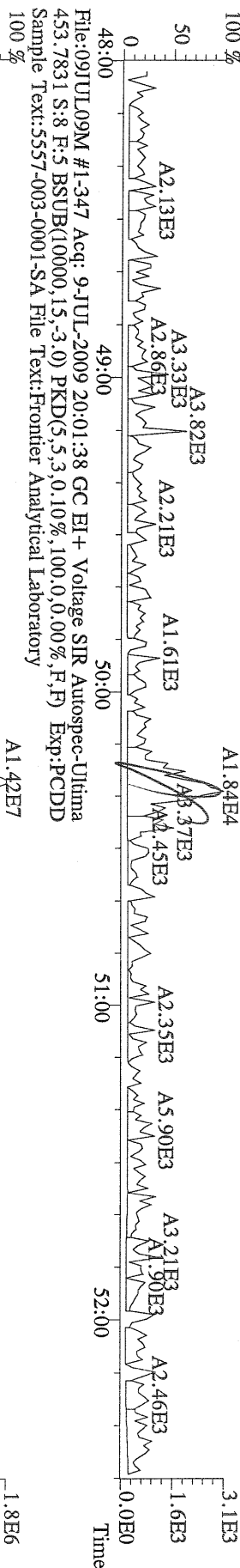
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479.7165 S:8 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory



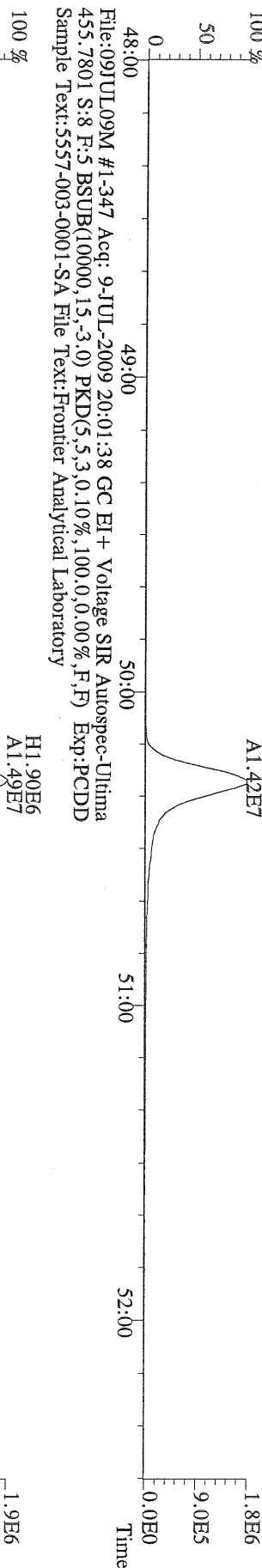
000071 of 000295



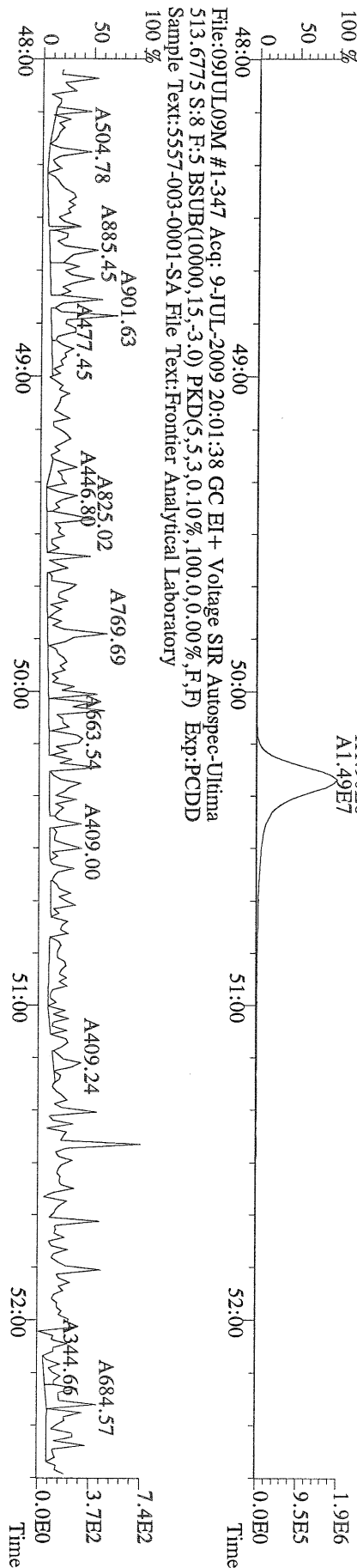
File:09JUL09M #1-347 Acq: 9-JUL-2009 20:01:38 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:8 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.0,0%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory
100 % A1.84E4



File:09JUL09M #1-347 Acq: 9-JUL-2009 20:01:38 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:5557-003-0001-SA File Text:Frontier Analytical Laboratory
100 % A1.42E7



48:00 49:00 50:00
File:09JUL09M #1-347 Acq: 9-JUL-2009 20:01:38 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:5557-003-0001-SA File Text:Frontier Analytical Laboratory



48:00 49:00 50:00
File:09JUL09M#1-347 Acq: 9-JUL-2009 20:01:38 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:8 F:5 BSUB(0000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-003-0001-SA File Text:Frontier Analytical Laboratory

NATO 1989 Tox: 2.38
WHO 1998 Tox: 1.83

Analyst: [Signature] Date: 7/10/03

Totals class: Total Hexa-Dioxins

Entry #: 39

Run: 16

File: 09JUL09M

S: 9 I: 1 F: 3

Acquired: 9-JUL-09 20:56:57

Total Concentration: 34.7

Unnamed Concentration: 34.732

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
36:14	4.09e+04	3.28e+04 1.25 y	7.37e+04	15.1	
37:37	5.37e+04	4.21e+04 1.28 y	9.58e+04	19.6	

Totals class: Total Hepta-Dioxins Entry #: 40

Run: 16 File: 09JUL09M S: 9 I: 1 F: 4

Acquired: 9-JUL-09 20:56:57

Total Concentration: 162 Unnamed Concentration: 86.302

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
42:56	1.80e+05	1.92e+05 0.93 y	3.72e+05	86.3	
44:19	1.63e+05	1.65e+05 0.99 y	3.28e+05	76.0	1,2,3,4,6,7,8-HpCDD

Totals class: 1st Fn. Tot Penta-Furans Entry #: 42

Run: 16 File: 09JUL09M S: 9 I: 1 F: 1

Acquired: 9-JUL-09 20:56:57

Total Concentration: 11.9 Unnamed Concentration: 11.921

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
28:34	4.15e+04	2.85e+04 1.46 y	7.00e+04	11.9	

Totals class: Total Hexa-Furans

Entry #: 44

Run: 16

File: 09JUL09M

S: 9 I: 1 F: 3

Acquired: 9-JUL-09 20:56:57

Total Concentration: 60.6

Unnamed Concentration: 54.167

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:21	3.53e+04	2.71e+04	1.30 y	6.24e+04	10.7	
35:37	9.22e+04	7.81e+04	1.18 y	1.70e+05	29.1	
36:31	4.38e+04	4.05e+04	1.08 y	8.43e+04	14.4	
37:19	2.31e+04	1.66e+04	1.39 y	3.97e+04	6.44	1,2,3,4,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 45

Run: 16

File: 09JUL09M

S: 9 I: 1 F: 4

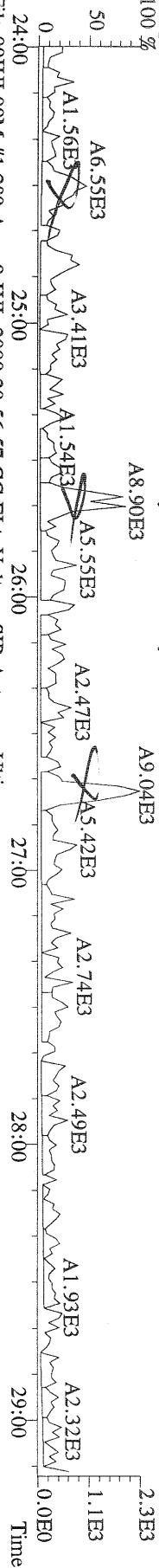
Acquired: 9-JUL-09 20:56:57

Total Concentration: 80.2

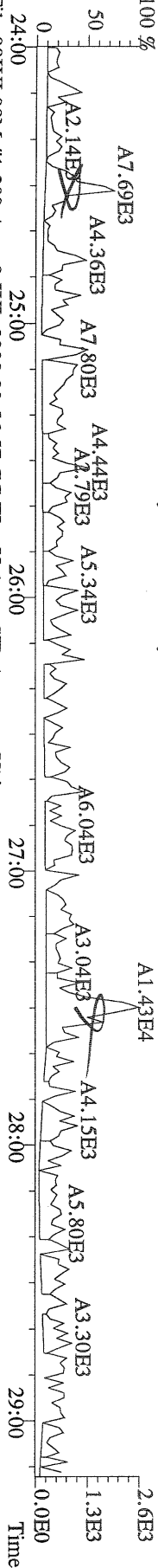
Unnamed Concentration: 43.502

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:24	8.61e+04	7.92e+04	1.09 y	1.65e+05	36.7	1,2,3,4,6,7,8-HpCDF
43:14	8.49e+04	8.55e+04	0.99 y	1.70e+05	43.5	

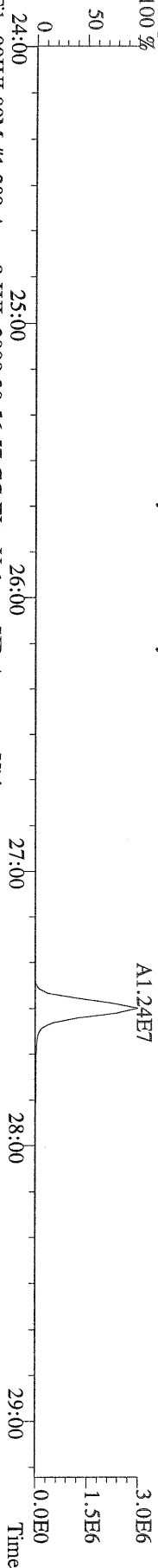
File:09JUL09M #1-390 Acq: 9-JUL-2009 20:56:57 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



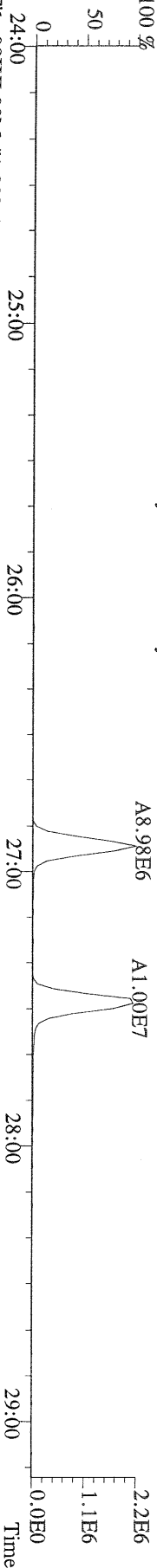
File:09JUL09M #1-390 Acq: 9-JUL-2009 20:56:57 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



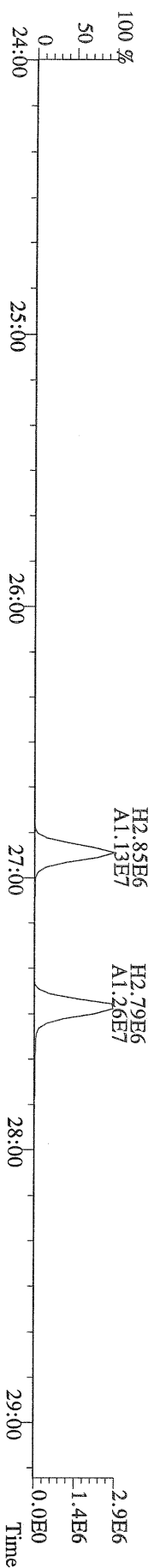
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327.8847 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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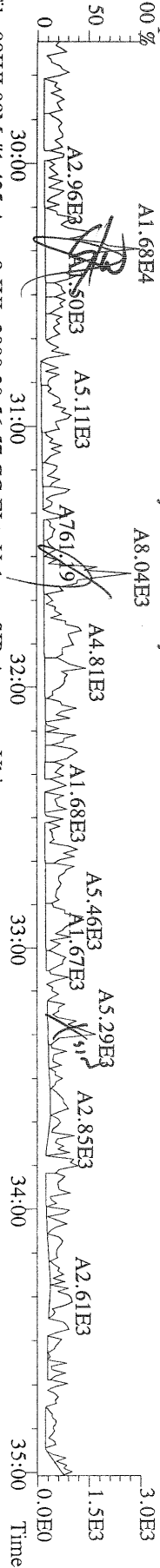
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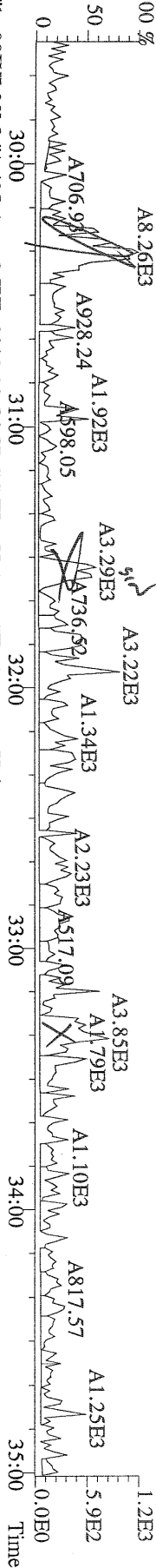
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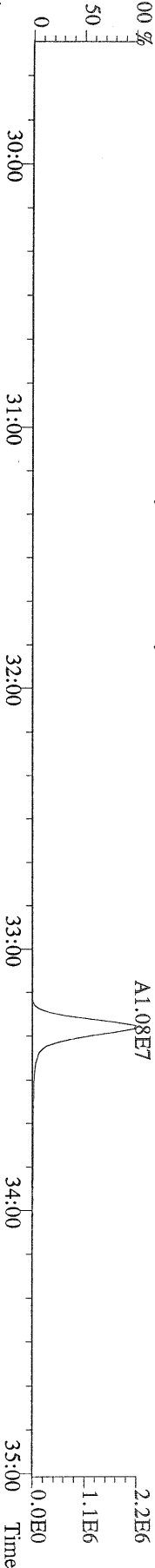
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Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



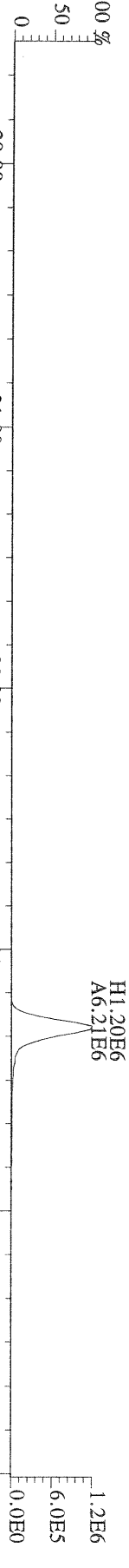
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357.8517 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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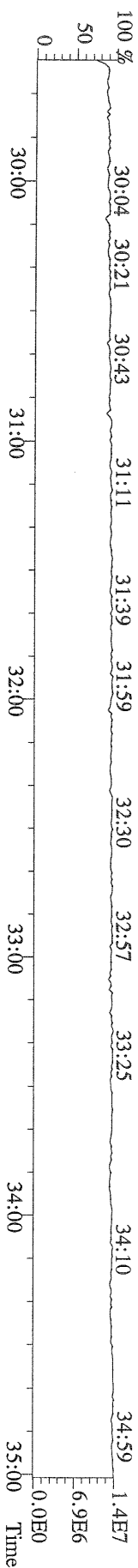
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367.8949 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



File:09JUL09M #1-425 Acq: 9-JUL-2009 20:56:57 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



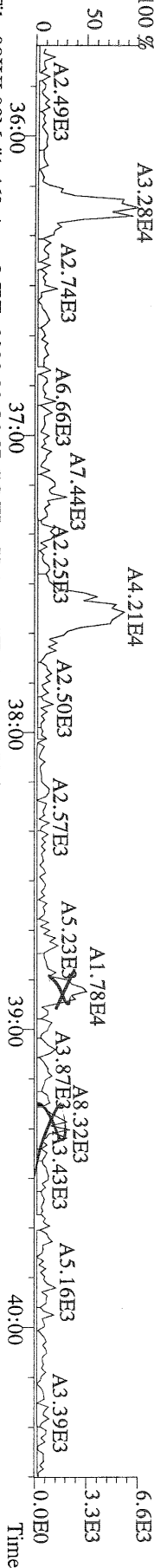
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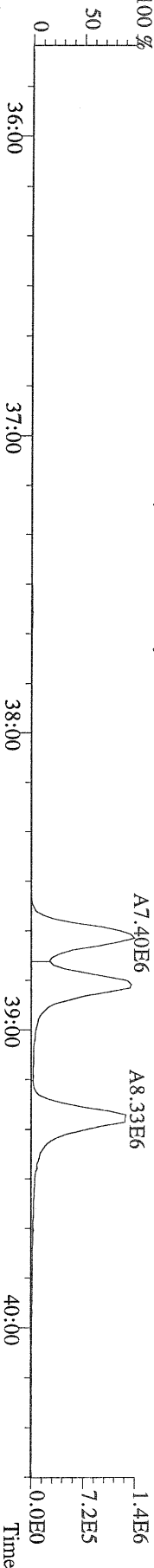
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389.8156 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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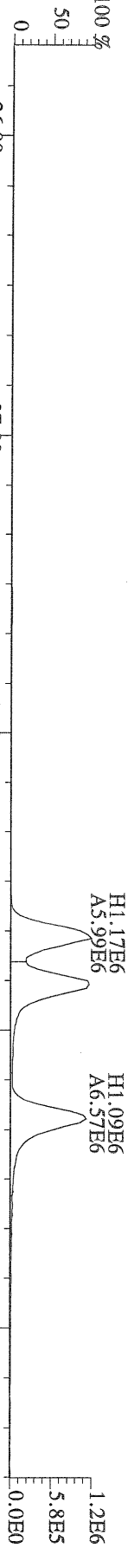
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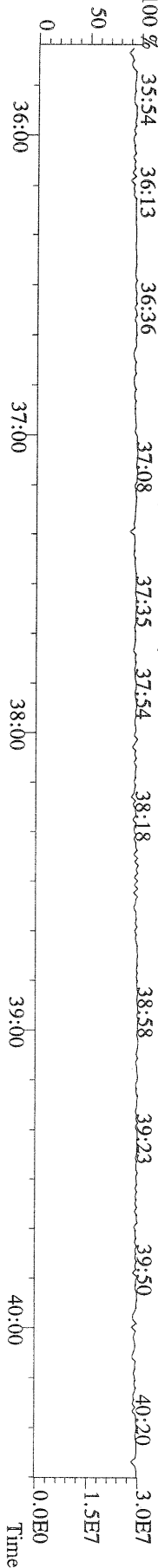
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Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



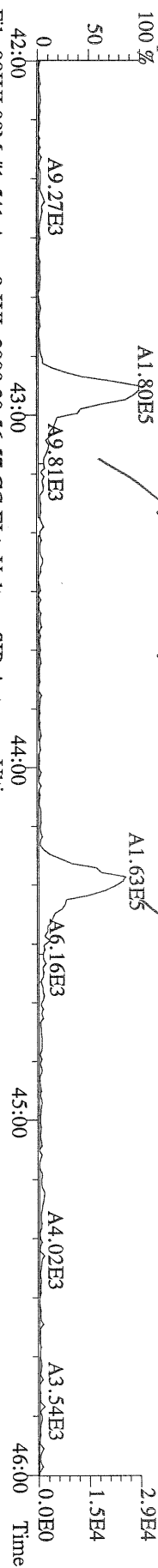
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403.8530 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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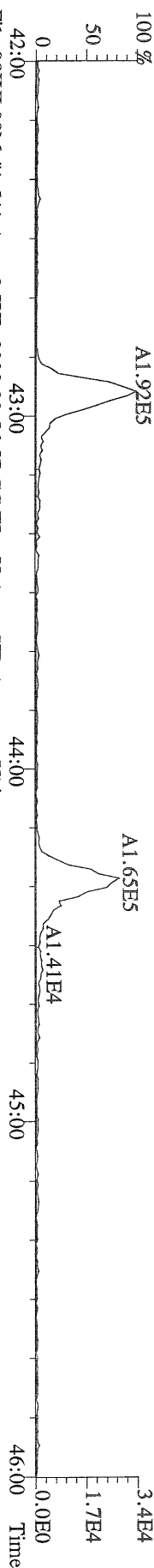
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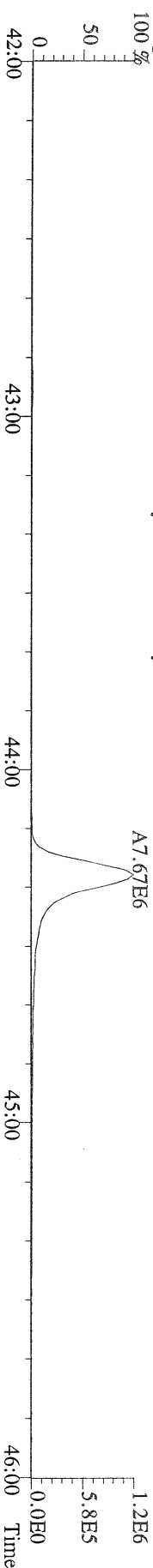
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423.7767 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



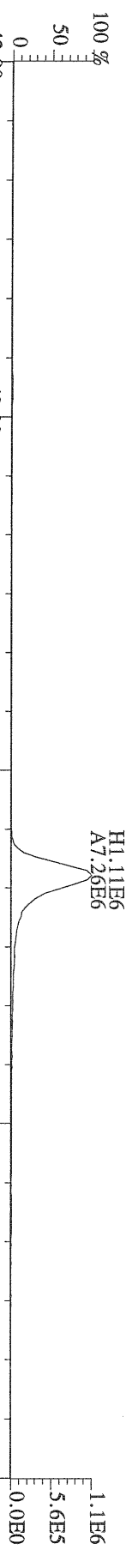
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425.7737 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



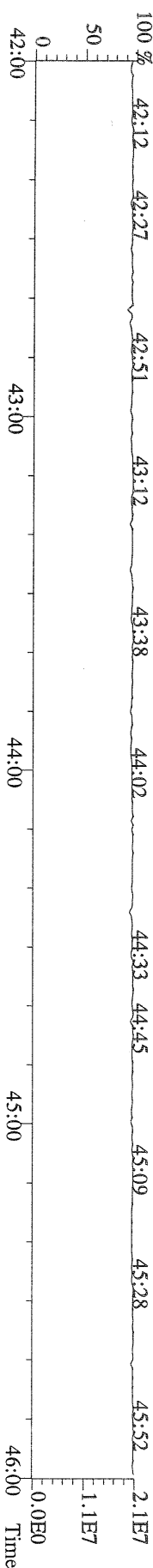
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435.8169 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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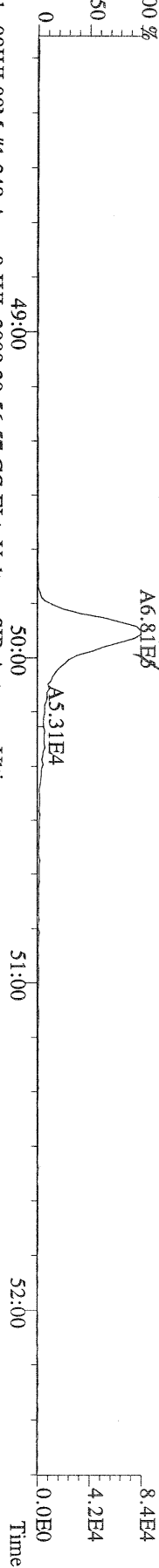
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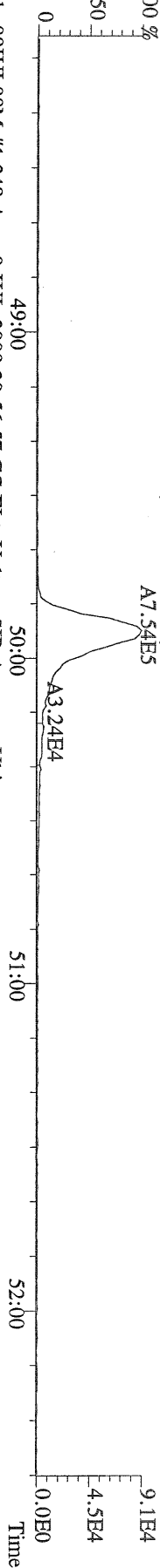
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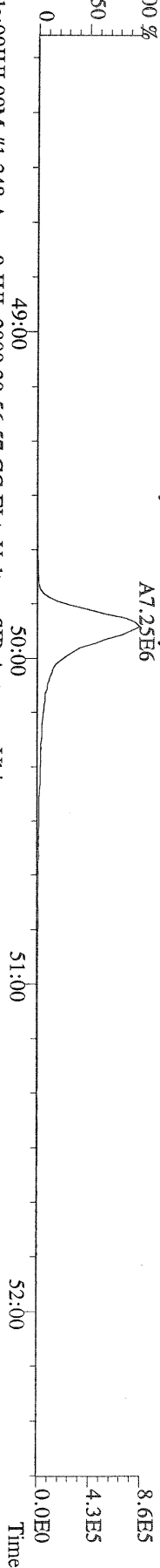
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457.7377 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



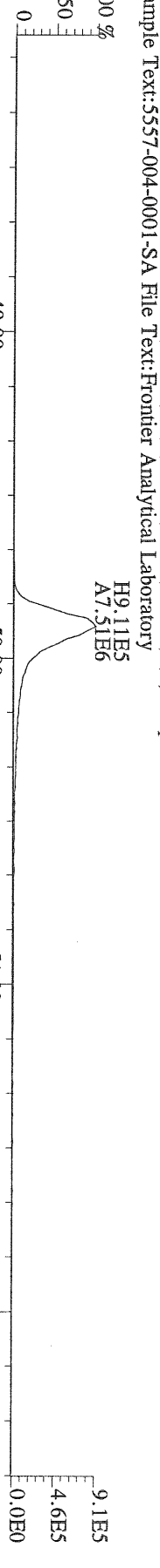
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459.7348 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



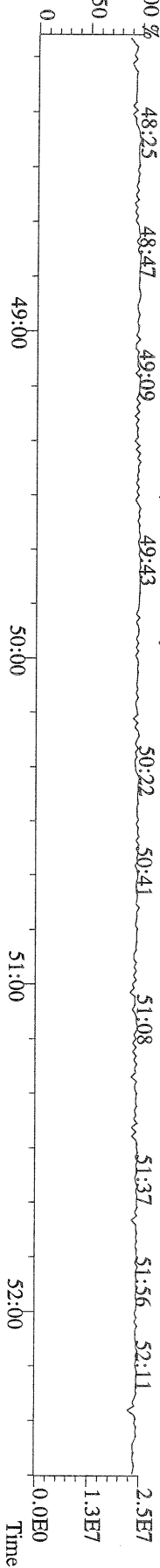
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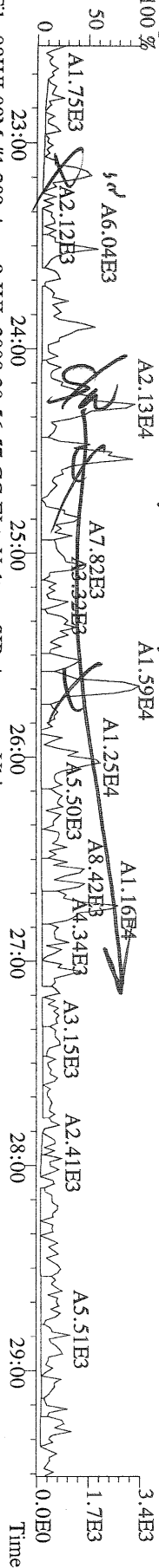
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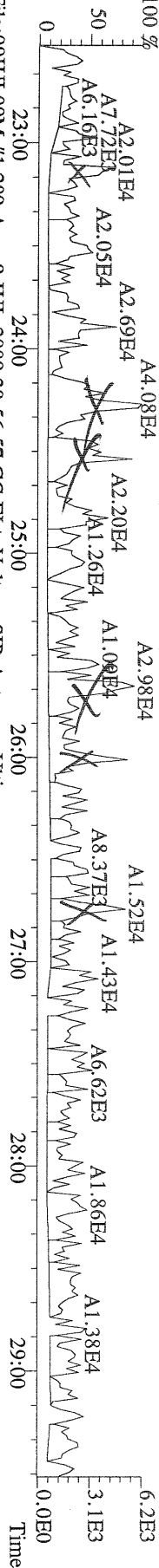
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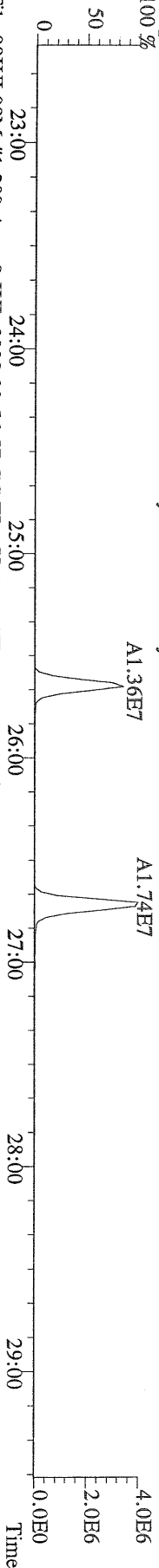
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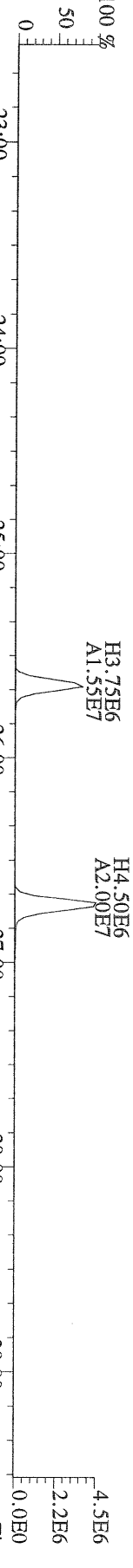
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305.8987 S:9 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



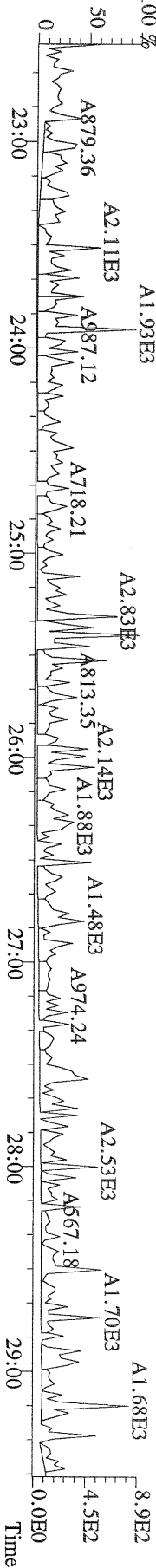
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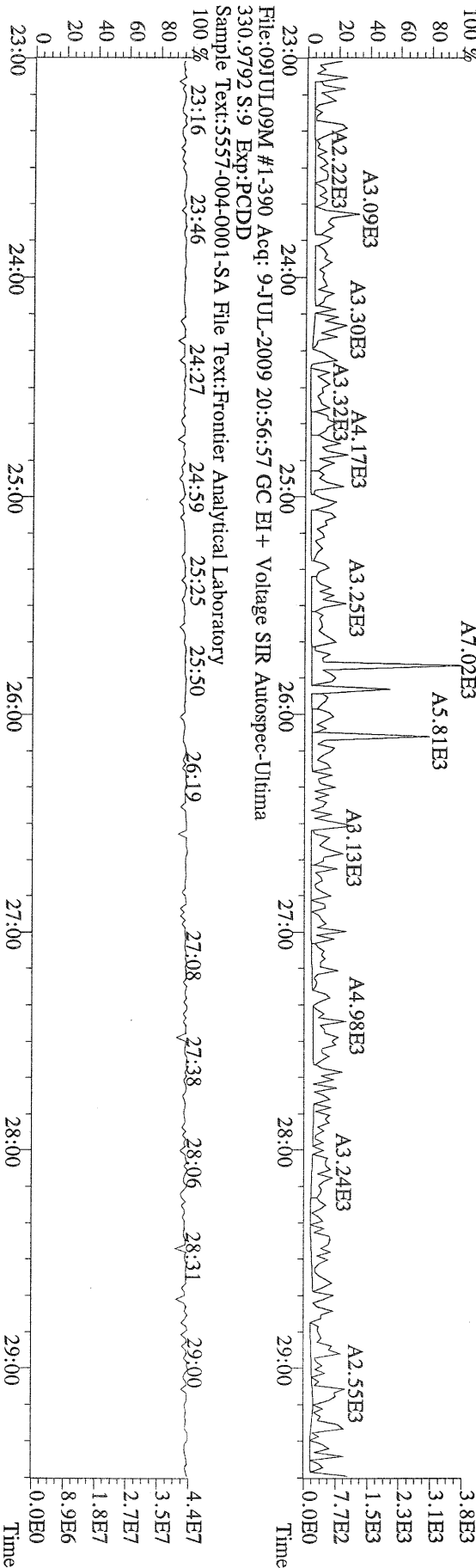
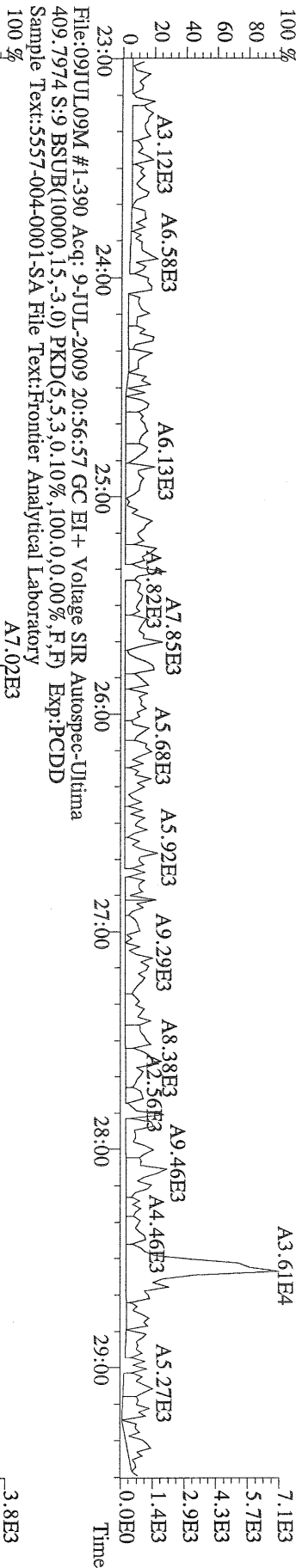
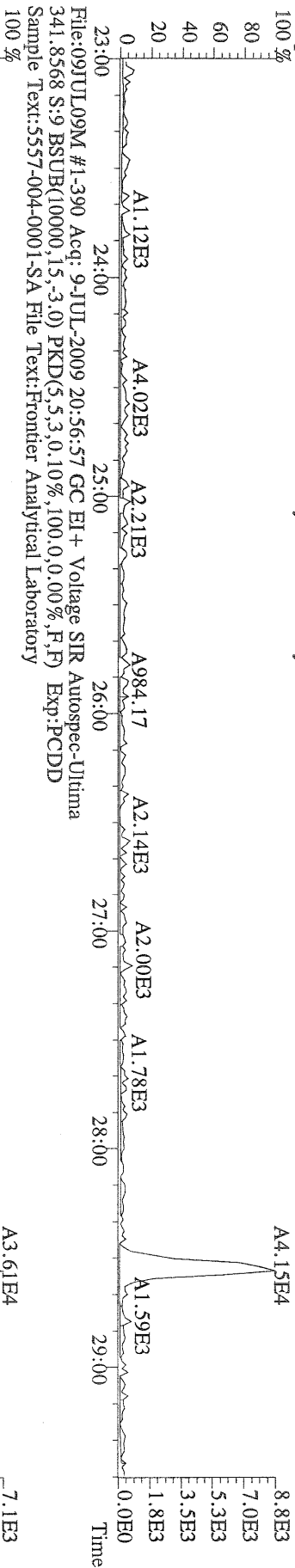
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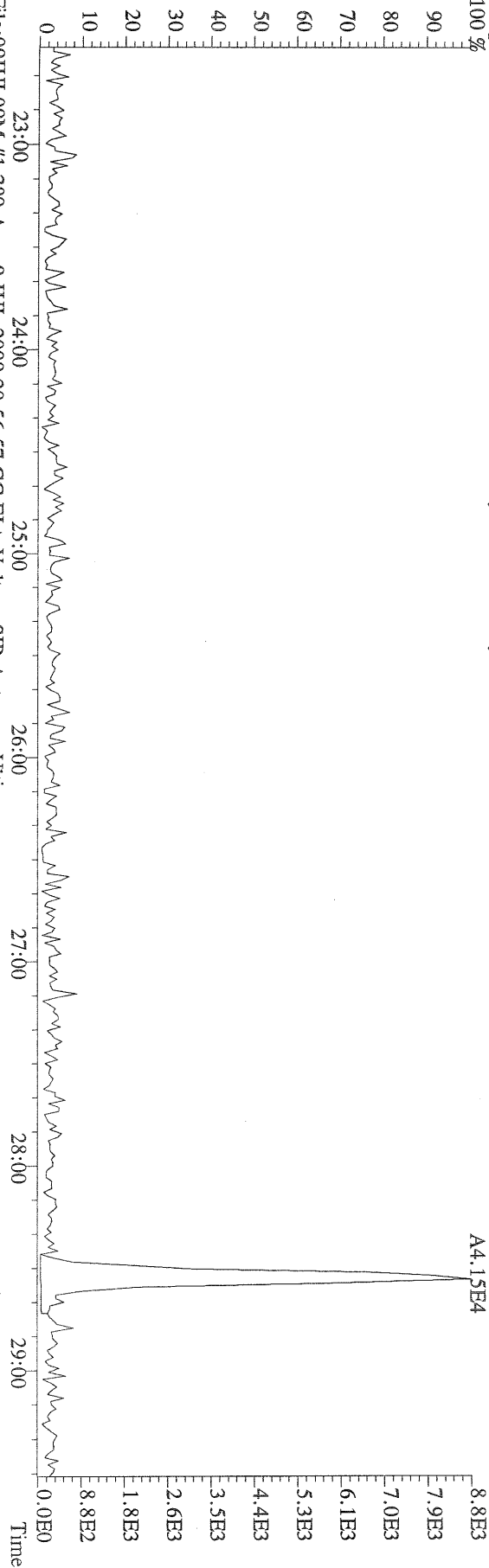
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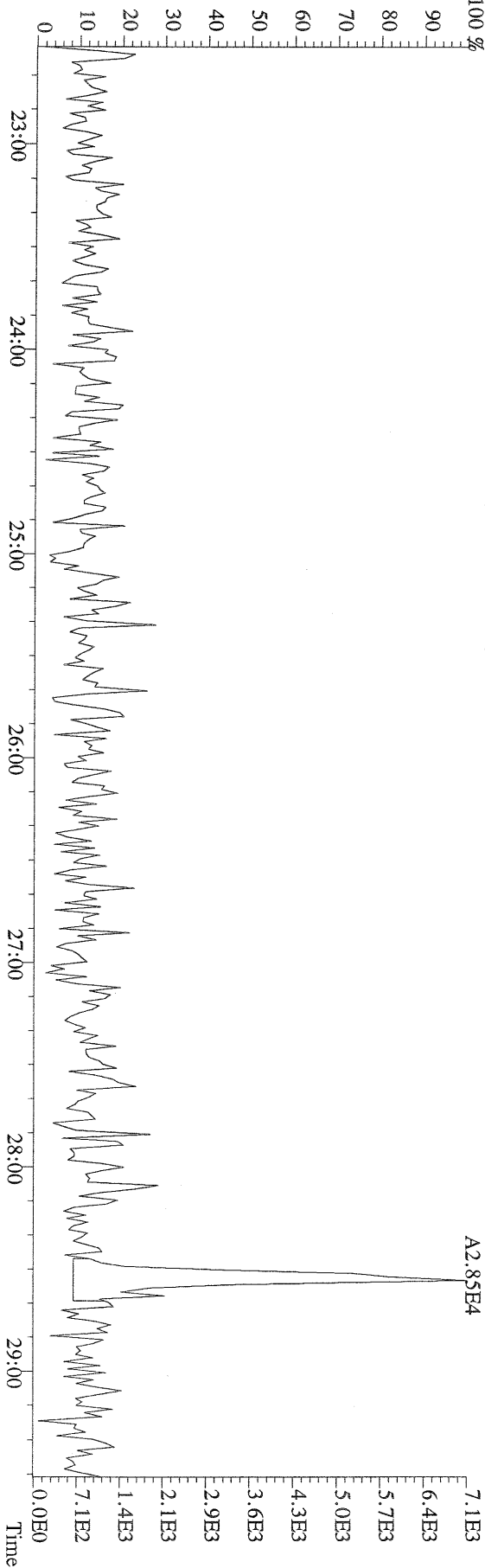
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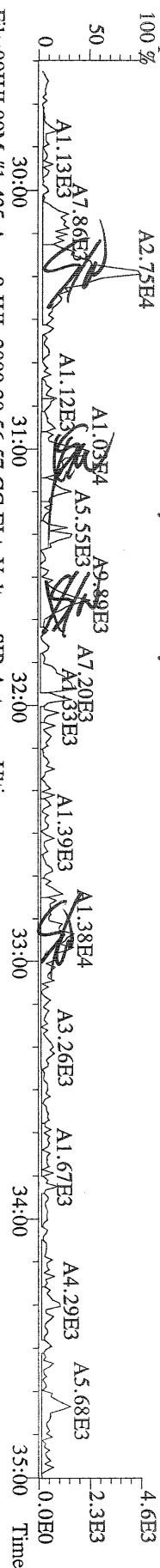
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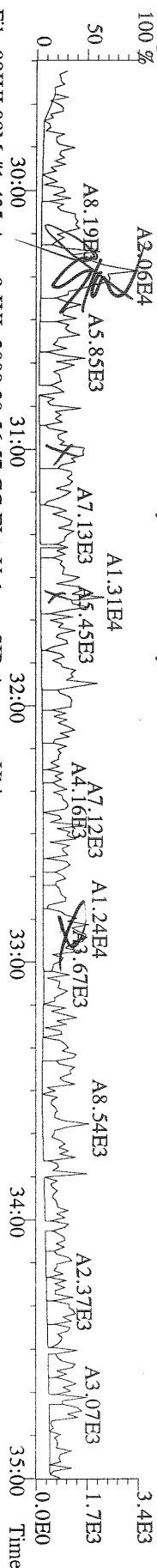
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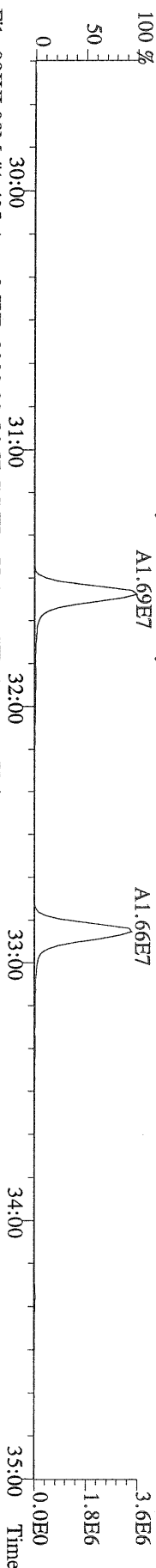
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339.8597 S:9 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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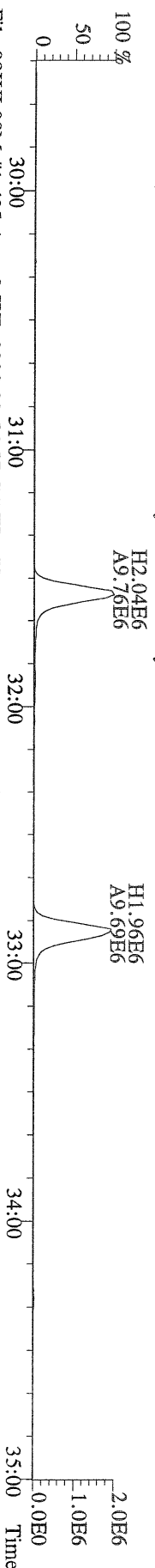
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Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



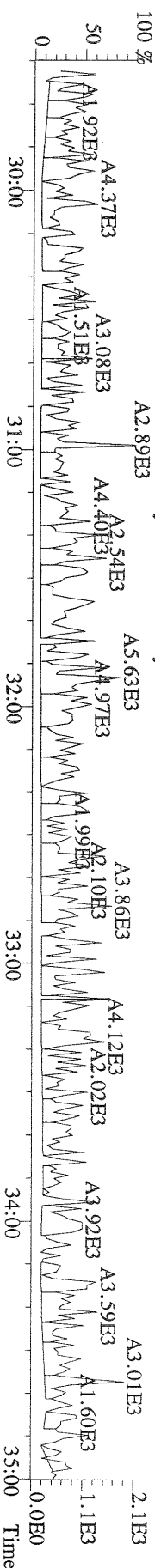
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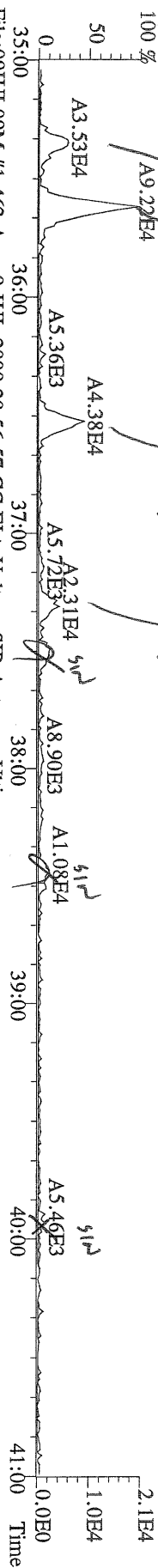
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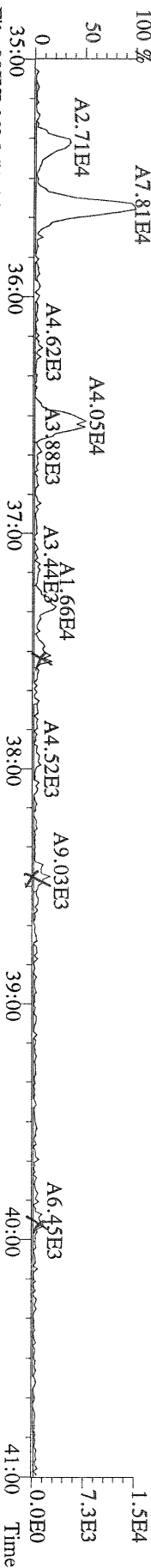
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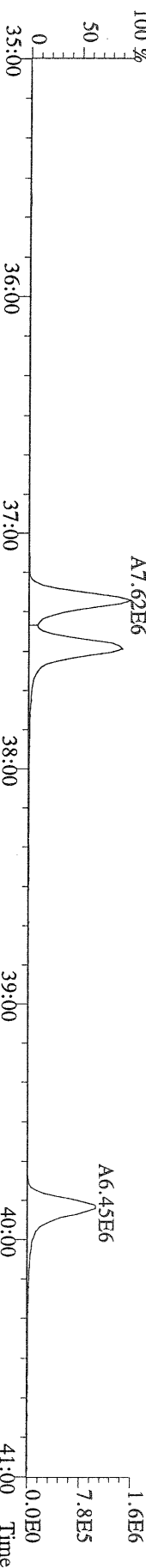
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373.8207 S:9 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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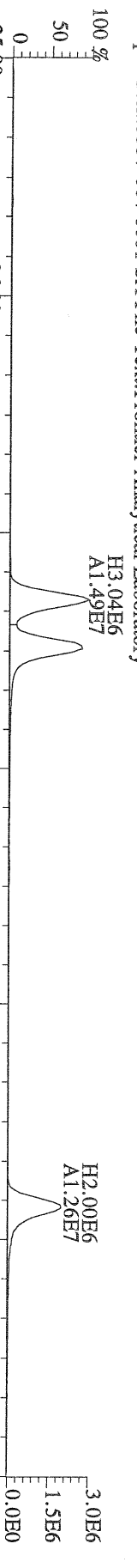
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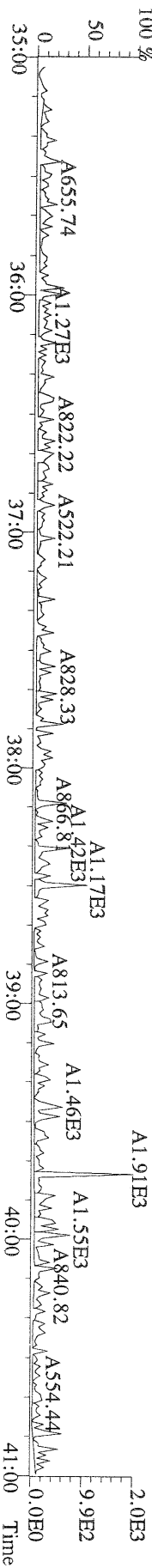
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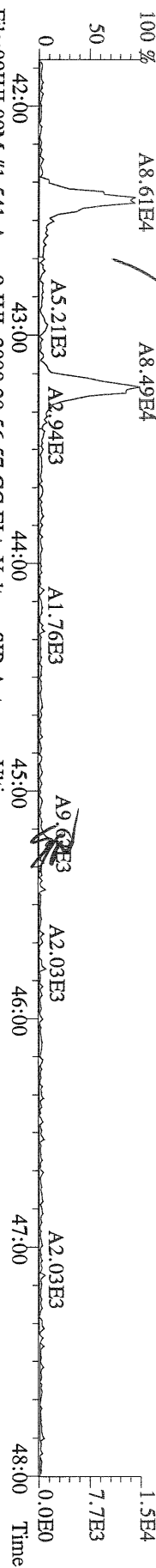
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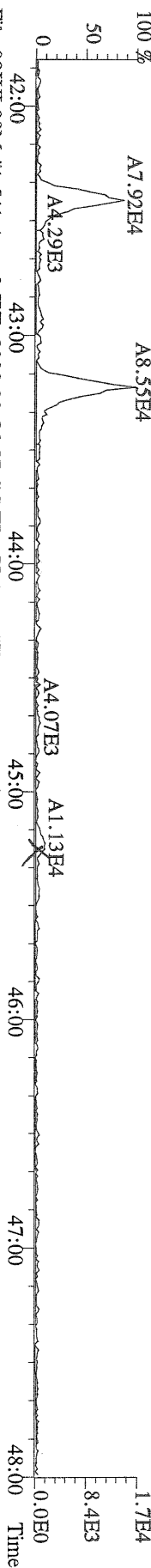
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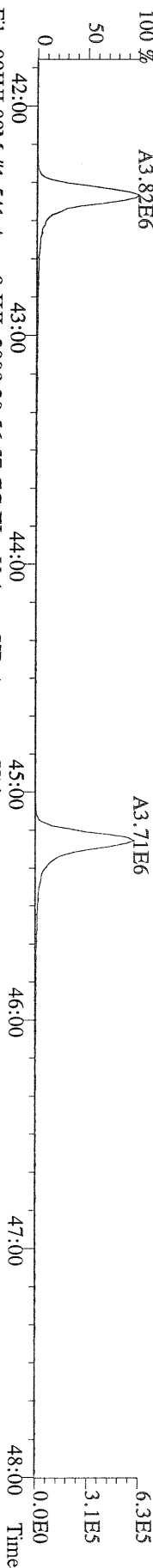
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407.7818 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



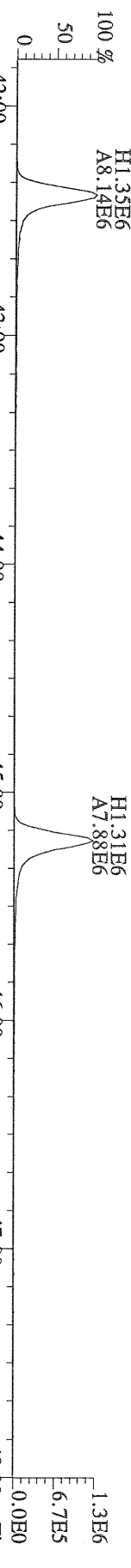
File:09JUL09M #1-541 Acq: 9-JUL-2009 20:56:57 GC EI + Voltage SIR Autospec-Ultima
409.7788 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



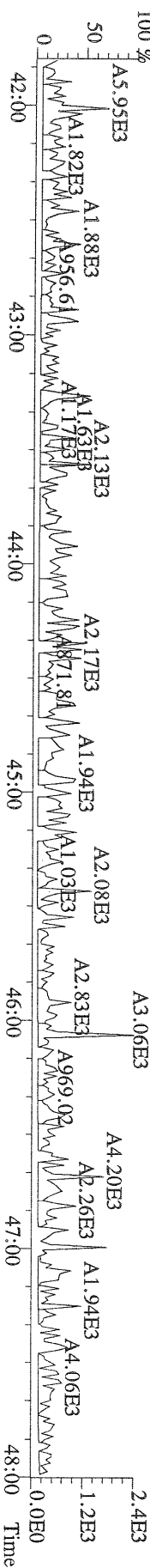
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417.8253 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



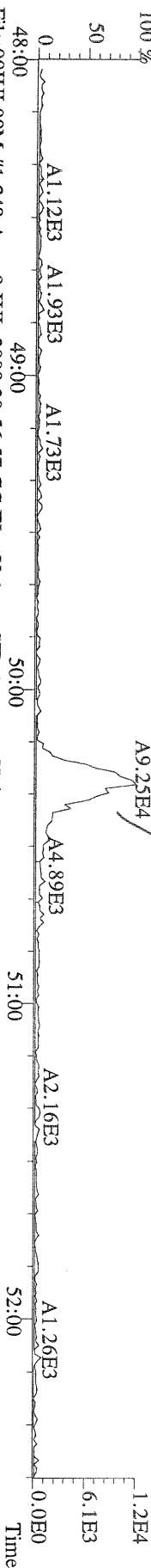
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419.8220 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



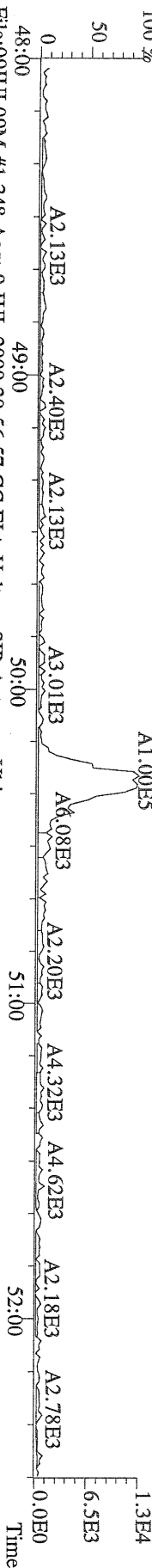
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479.7165 S:9 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



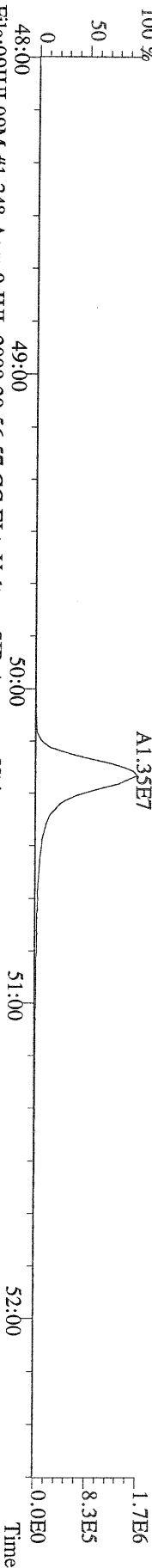
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441.7428 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



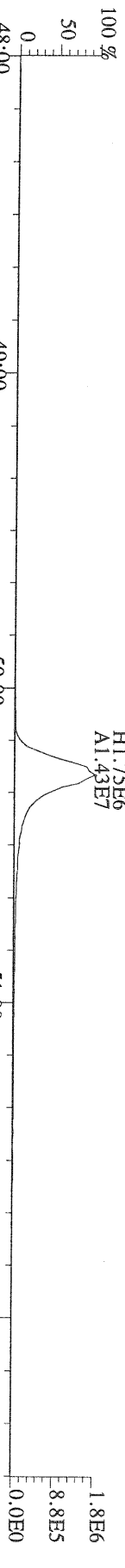
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443.7398 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



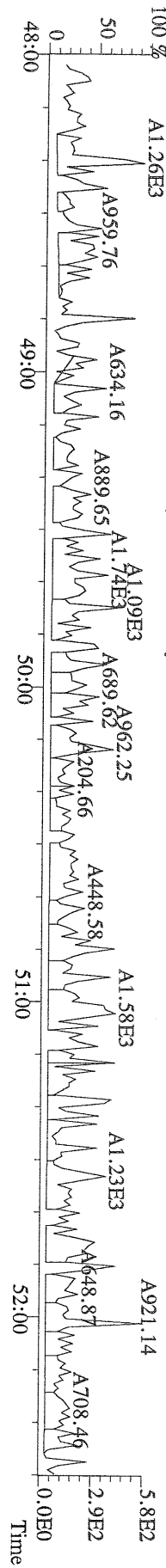
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453.7831 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



File:09JUL09M #1-348 Acq: 9-JUL-2009 20:56:57 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:9 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-004-0001-SA File Text:Frontier Analytical Laboratory



File:09JUL09M #1-348 Acq: 9-JUL-2009 20:56:57 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:5557-004-0001-SA File Text:Frontier Analytical Laboratory
100 %



FAL ID: 5557-008-0001-SA

Filename: 09JUL09M

Sam:12

Acquired: 9-JUL-09 23:42:37

ICal: AIRFAL3-6-29-09

Client ID: OFF-04-061709

ConCal: ST070909M1

EndCal: ST070909M2

Results: 5557

GC Column: DB5

Amount: 1.000

NATO 1989 Tox: 3.98

WHO 1998 Tox: 3.46

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
2,3,7,8-TCDD	*	* n	NotFnd	1.14	*		2.50	681	2.59	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.14	*		2.50	392	4.02	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	451	4.21	
1,2,3,6,7,8-HxCDD	1.99e+04	1.09 y	38:53	1.24	6.46	J	2.50	-	*	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.35	*		2.50	451	4.28	
1,2,3,4,6,7,8-HpCDD	1.67e+05	0.99 y	44:19	1.15	59.4		2.50	-	*	
OCDD	7.18e+05	0.98 y	49:56	1.43	494		2.50	-	*	
2,3,7,8-TCDF	*	* n	NotFnd	1.14	*		2.50	1550	4.52	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.90	*		2.50	764	5.56	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.86	*		2.50	764	5.88	
1,2,3,4,7,8-HxCDF	4.17e+04	1.37 y	37:19	1.02	9.91	J	2.50	-	*	
1,2,3,6,7,8-HxCDF	2.87e+04	1.11 y	37:31	1.04	6.69	J	2.50	-	*	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.94	*		2.50	740	3.91	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.88	*		2.50	740	4.19	
1,2,3,4,6,7,8-HpCDF	1.24e+05	0.95 y	42:24	1.51	41.0	J	2.50	-	*	
1,2,3,4,7,8,9-HpCDF	2.09e+04	0.90 y	45:14	1.11	9.33	J	2.50	-	*	
OCDF	1.47e+05	1.01 y	50:18	0.87	85.3	J	2.50	-	*	
13C-2,3,7,8-TCDD	1.70e+07	0.77 y	27:29	1.21	3330					Rec
13C-1,2,3,7,8-PeCDD	1.22e+07	1.74 y	33:18	0.83	3470					83.1
13C-1,2,3,6,7,8-HxCDD	9.95e+06	1.24 y	38:50	0.99	4380					86.7
13C-1,2,3,4,6,7,8-HpCDD	9.72e+06	1.07 y	44:17	1.03	4130					109
13C-OCDD	8.15e+06	0.92 y	49:54	0.64	5600					103
13C-2,3,7,8-TCDF	2.40e+07	0.88 y	26:43	1.33	3370					70.0
13C-1,2,3,7,8-PeCDF	1.93e+07	1.71 y	31:34	0.96	3740					
13C-1,2,3,6,7,8-HxCDF	1.65e+07	0.51 y	37:29	1.75	4120					84.3
13C-1,2,3,4,6,7,8-HpCDF	8.05e+06	0.48 y	42:24	1.00	3520					93.4
13C-OCDF	1.59e+07	0.97 y	50:16	1.11	6270					103
13C-1,2,3,7,8,9-HxCDF	1.07e+07	0.52 y	39:52	1.40	3340					88.0
37Cl-2,3,7,8-TCDD	9.79e+06		27:30	0.56	4140					78.4
13C-1,2,3,4,7,8-HxCDD	9.72e+06	1.21 y	38:40	1.05	3720					
13C-2,3,4,7,8-PeCDF	1.75e+07	1.70 y	32:52	0.93	3900					83.5
13C-1,2,3,4,7,8-HxCDF	1.64e+07	0.52 y	37:18	1.00	3990					103
13C-1,2,3,4,7,8,9-HpCDF	7.60e+06	0.46 y	45:12	0.82	4580					92.9
13C-1,2,3,4-TCDD	1.69e+07	0.78 y	26:54	-	40.5					97.6
13C-2,3,7,8-TCDF	2.14e+07	0.88 y	25:39	-	31.8					99.7
13C-1,2,3,7,8,9-HxCDD	9.14e+06	1.23 y	39:18	-	31.0					114
Total Tetra-Dioxins	*		NotFnd	1.14	*		Fac	Noise	DL	#Hom
Total Penta-Dioxins	*		NotFnd	1.14	*		2.50	681	2.59	0
Total Hexa-Dioxins	1.23e+05		36:14	1.32	37.8	J	2.50	392	4.02	0
Total Hepta-Dioxins	3.62e+05		42:56	1.15	129		2.50	-	*	3
Total Tetra-Furans	*		NotFnd	1.14	*		2.50	2180	6.33	0
1st Fn. Tot Penta-Furans	7.28e+04		28:33	0.88	17.1	J	2.50	-	*	1
Total Penta-Furans	*		NotFnd	0.88	*	J	2.50	-	*	0
Total Hexa-Furans	3.15e+05		35:21	0.97	77.7		2.50	-	*	5
Total Hepta-Furans	2.42e+05		42:24	1.31	86.9		2.50	-	*	3

Analyst: 

Date: 7/10/09

Totals class: Total Hexa-Dioxins

Entry #: 39

Run: 19

File: 09JUL09M

S: 12 I: 1 F: 3

Acquired: 9-JUL-09 23:42:37

Total Concentration: 37.8

Unnamed Concentration: 31.317

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
36:14	2.12e+04	1.99e+04	1.07 y	4.11e+04	12.5	
37:35	3.54e+04	2.64e+04	1.34 y	6.18e+04	18.8	
38:53	1.04e+04	9.54e+03	1.09 y	1.99e+04	6.46	1,2,3,6,7,8-HxCDD

Totals class: Total Hepta-Dioxins

Entry #: 40

Run: 19

File: 09JUL09M

S: 12 I: 1 F: 4

Acquired: 9-JUL-09 23:42:37

Total Concentration: 129

Unnamed Concentration: 69.679

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
42:56	9.45e+04	1.01e+05 0.93 y	1.96e+05	69.7	
44:19	8.30e+04	8.37e+04 0.99 y	1.67e+05	59.4	1,2,3,4,6,7,8-HpCDD

Totals class: 1st Fn. Tot Penta-Furans Entry #: 42

Run: 19 File: 09JUL09M S: 12 I: 1 F: 1
Acquired: 9-JUL-09 23:42:37

Total Concentration: 17.1 Unnamed Concentration: 17.149

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
28:33	4.43e+04	2.85e+04 1.56 y	7.28e+04	17.1	

Totals class: Total Hexa-Furans

Entry #: 44

Run: 19

File: 09JUL09M

S: 12 I: 1 F: 3

Acquired: 9-JUL-09 23:42:37

Total Concentration: 77.7

Unnamed Concentration: 61.073

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:21	3.08e+04	2.22e+04	1.39 y	5.30e+04	13.3	
35:37	7.06e+04	6.07e+04	1.16 y	1.31e+05	32.9	
36:31	3.33e+04	2.65e+04	1.26 y	5.98e+04	15.0	
37:19	2.41e+04	1.76e+04	1.37 y	4.17e+04	9.91	1,2,3,4,7,8-HxCDF
37:31	1.51e+04	1.36e+04	1.11 y	2.87e+04	6.69	1,2,3,6,7,8-HxCDF

Totals class: Total Hepta-Furans

Entry #: 45

Run: 19

File: 09JUL09M

S: 12 I: 1 F: 4

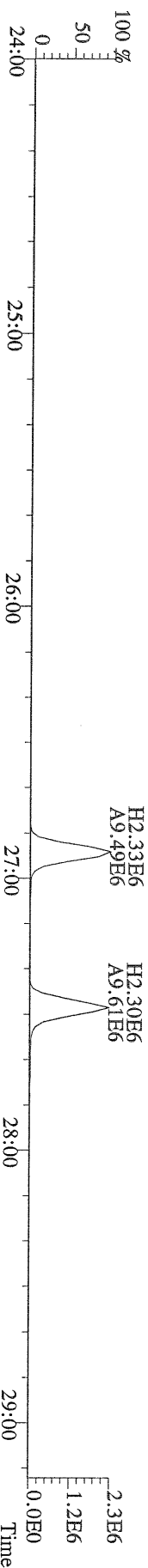
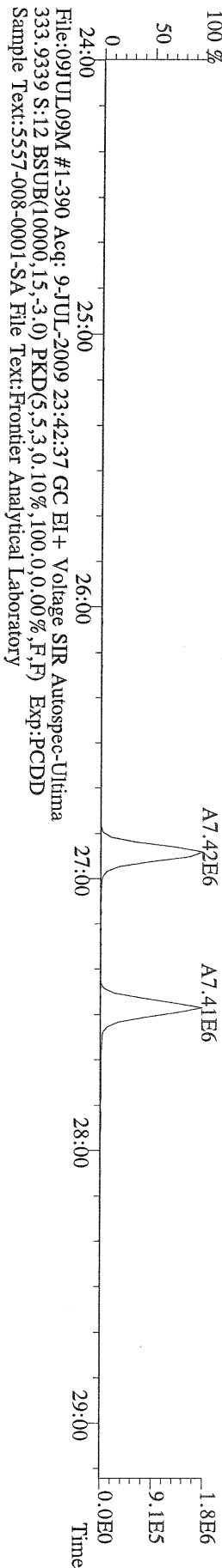
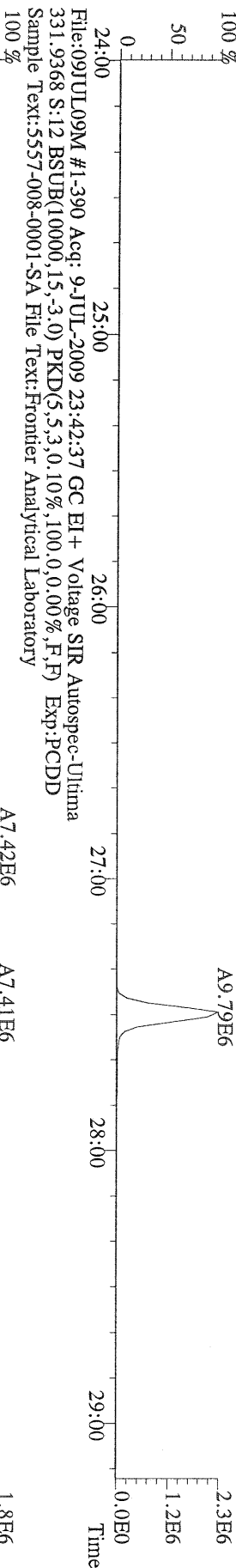
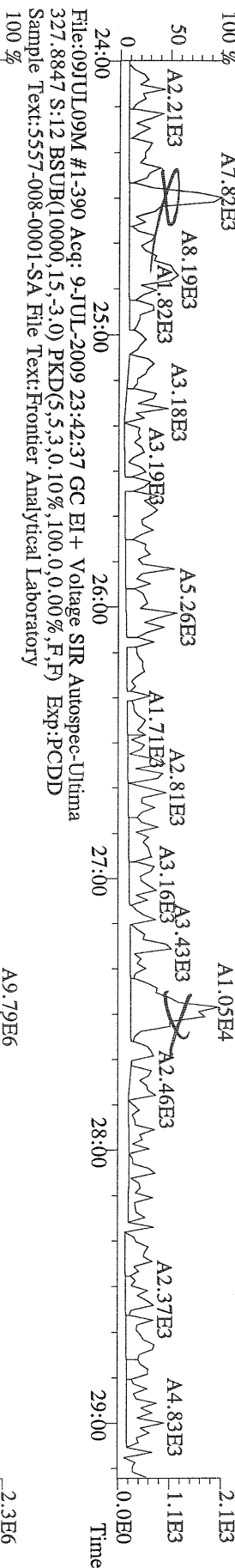
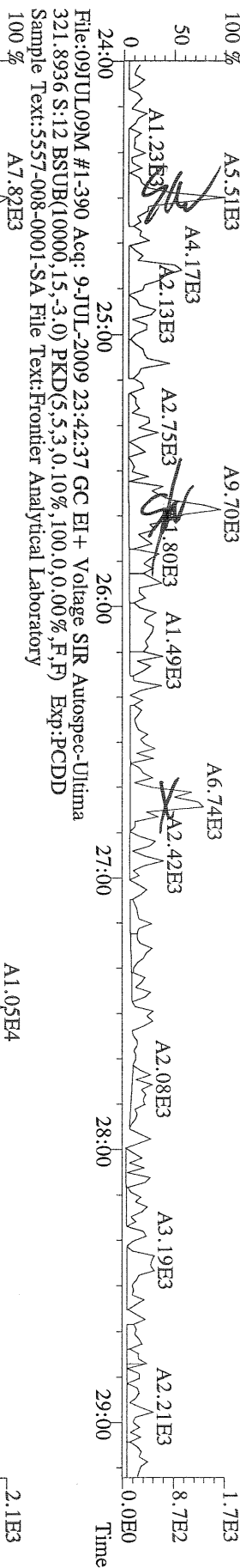
Acquired: 9-JUL-09 23:42:37

Total Concentration: 86.9

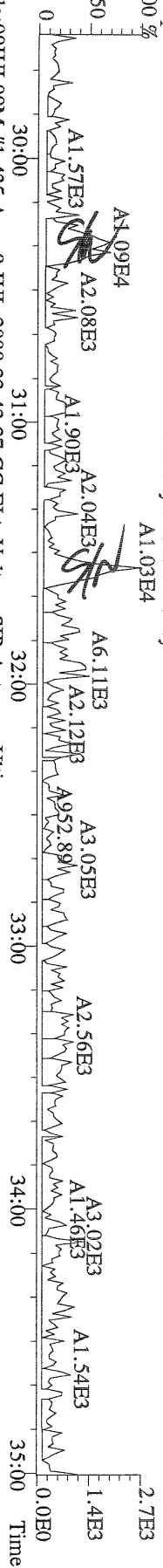
Unnamed Concentration: 36.554

RT	ml Resp	m2 Resp RA	Resp	Concentration	Name
42:24	6.06e+04	6.37e+04 0.95 y	1.24e+05	41.0	1,2,3,4,6,7,8-HpCDF
43:14	4.66e+04	4.99e+04 0.93 y	9.64e+04	36.6	
45:14	9.90e+03	1.10e+04 0.90 y	2.09e+04	9.33	1,2,3,4,7,8,9-HpCDF

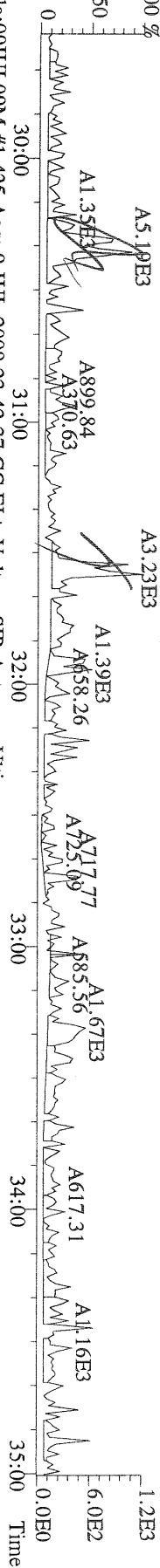
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319.8965 S:12 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



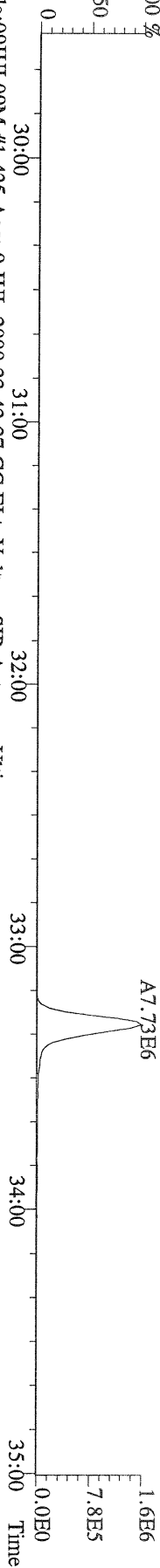
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355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



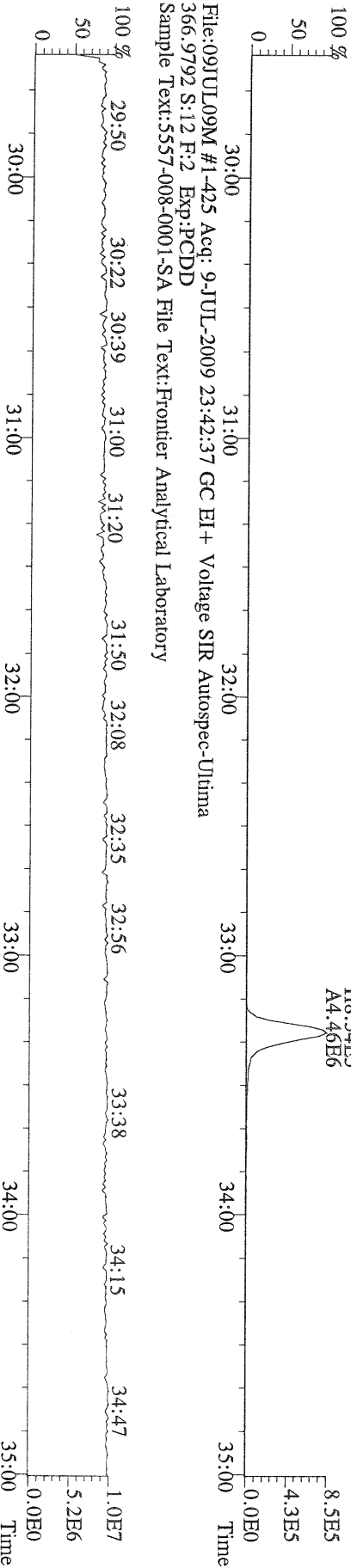
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357.8517 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



File:09JUL09M #1-425 Acq: 9-JUL-2009 23:42:37 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



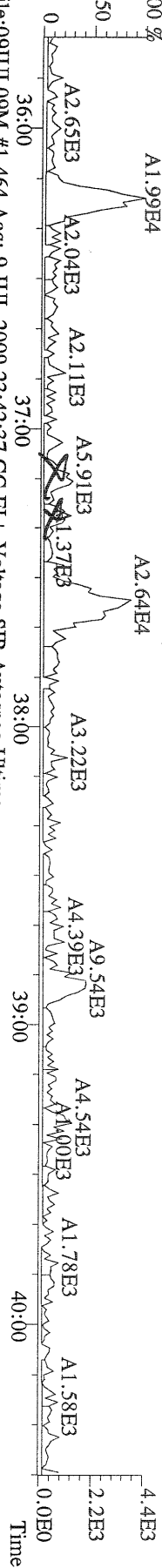
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369.8919 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



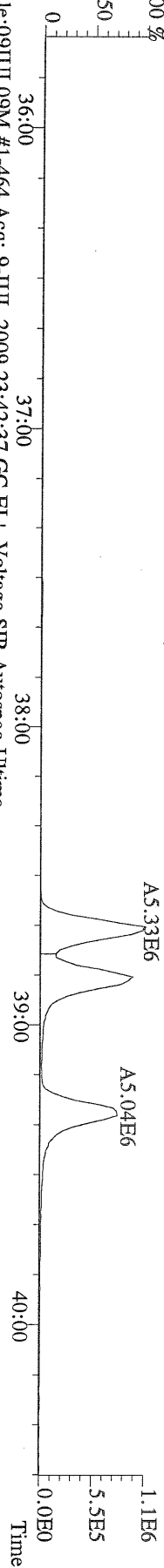
File:09JUL09M #1-464 Acq: 9-JUL-2009 23:42:37 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



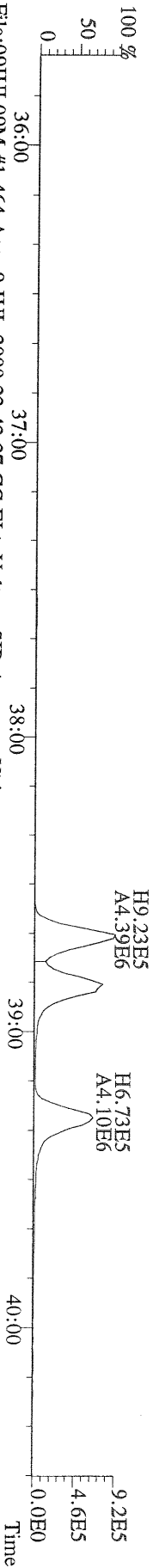
File:09JUL09M #1-464 Acq: 9-JUL-2009 23:42:37 GC EI+ Voltage SIR Autospec-Ultima
391.8127 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



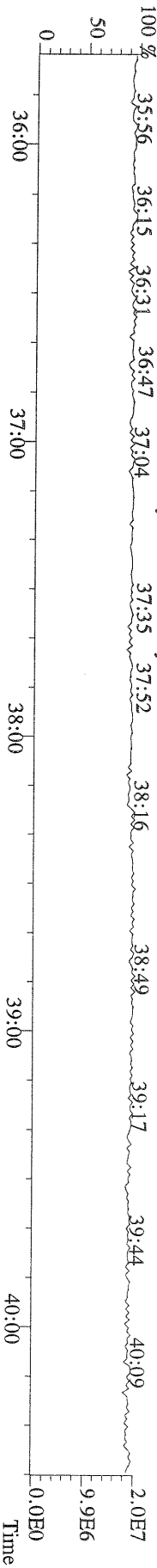
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401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



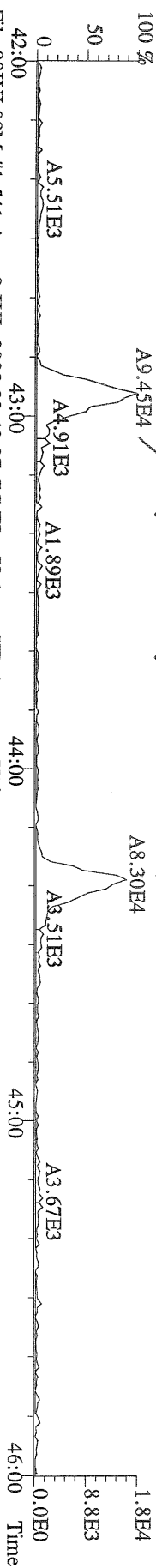
File:09JUL09M #1-464 Acq: 9-JUL-2009 23:42:37 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



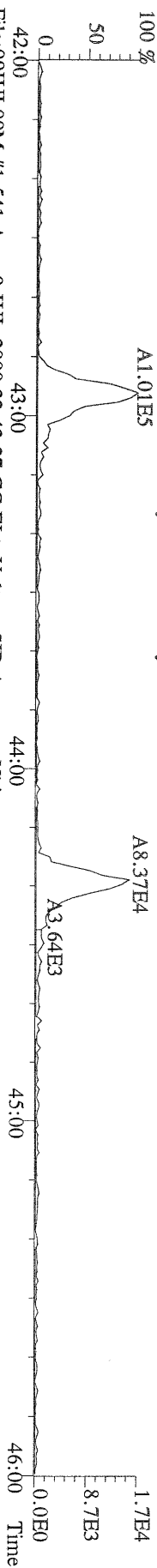
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380.9760 S:12 F:3 Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



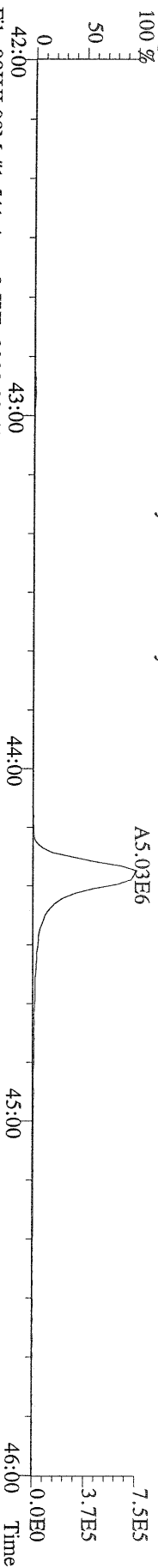
File:09JUL09M #1-541 Acq: 9-JUL-2009 23:42:37 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



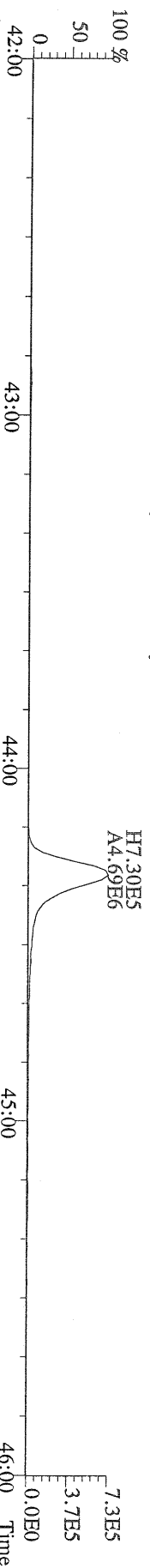
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425.7737 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



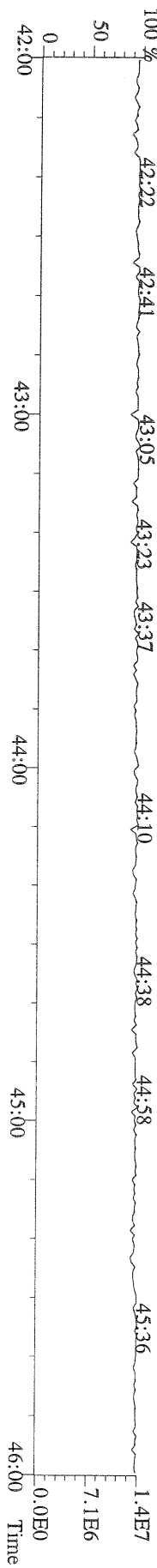
File:09JUL09M #1-541 Acq: 9-JUL-2009 23:42:37 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



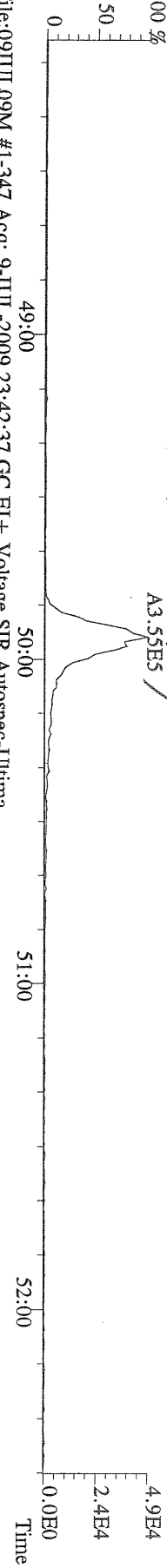
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437.8140 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



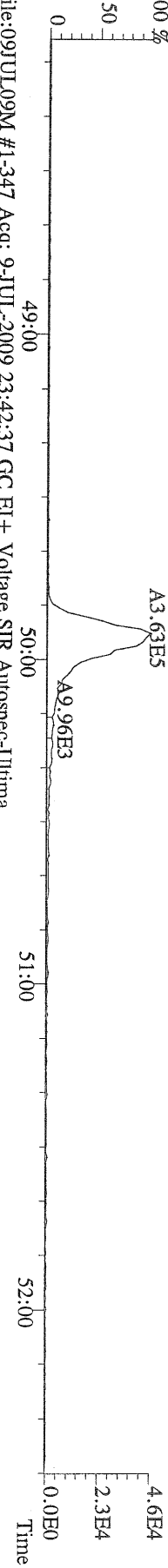
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430.9728 S:12 F:4 Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



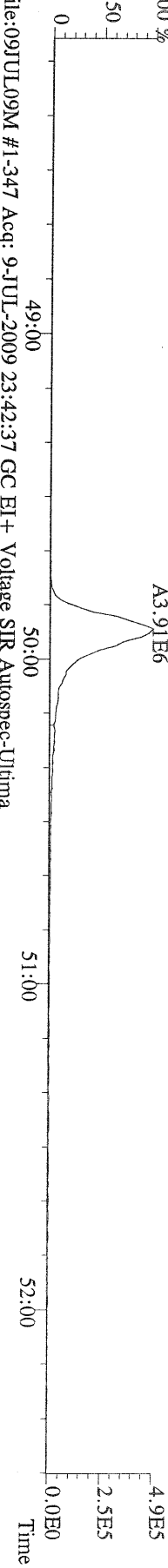
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457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



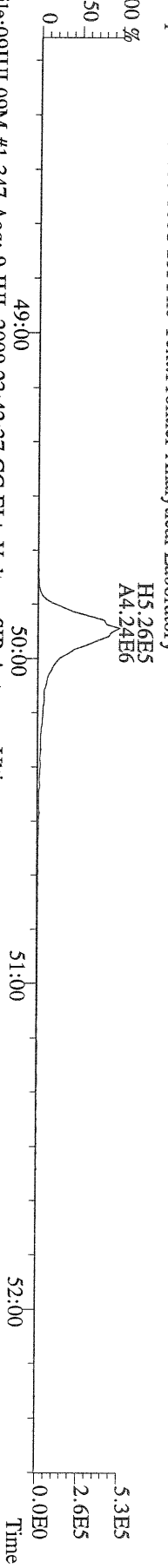
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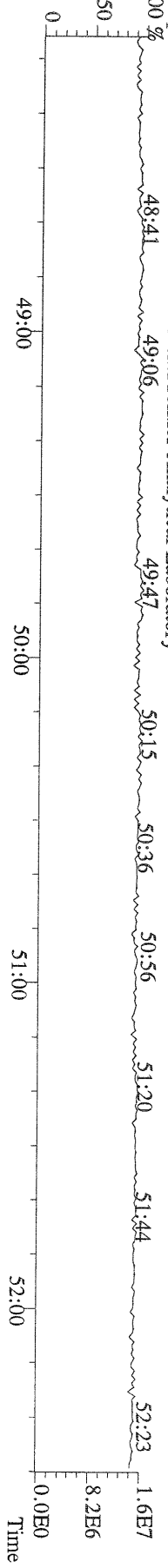
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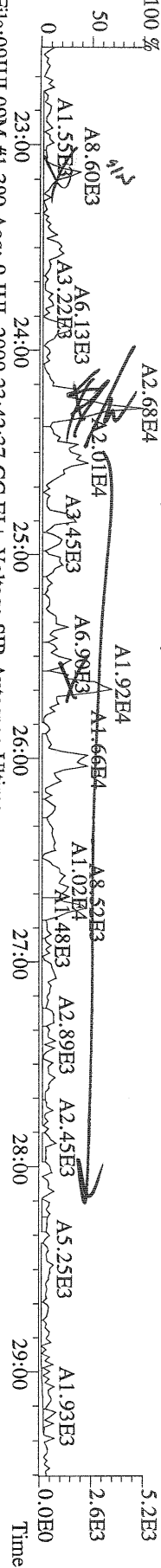
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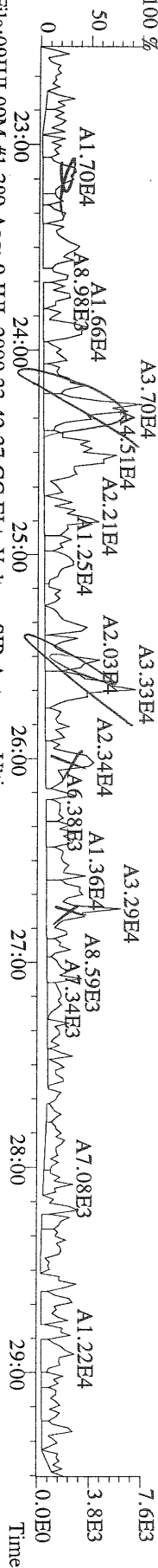
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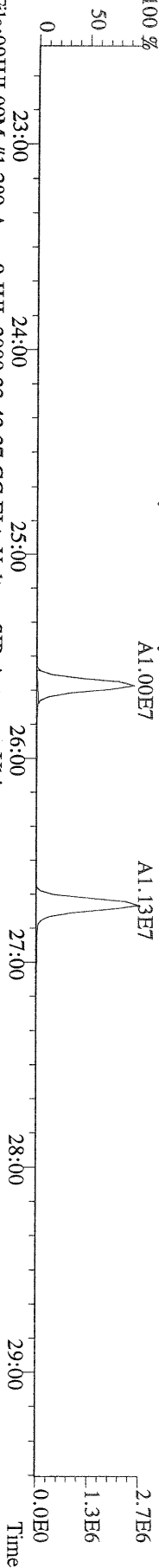
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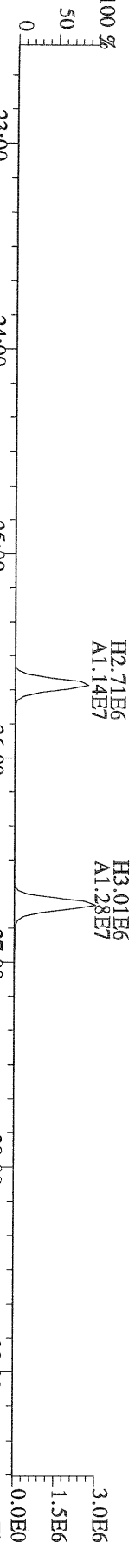
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Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



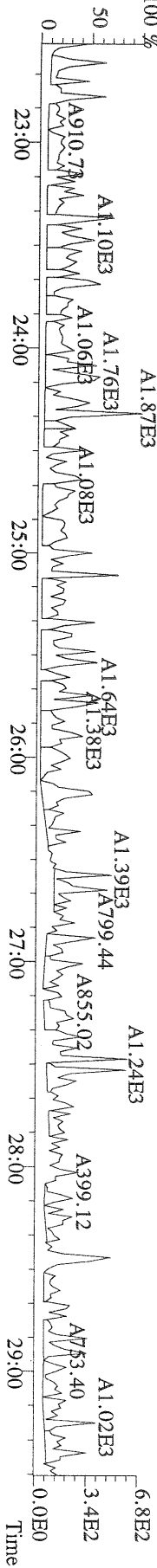
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Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



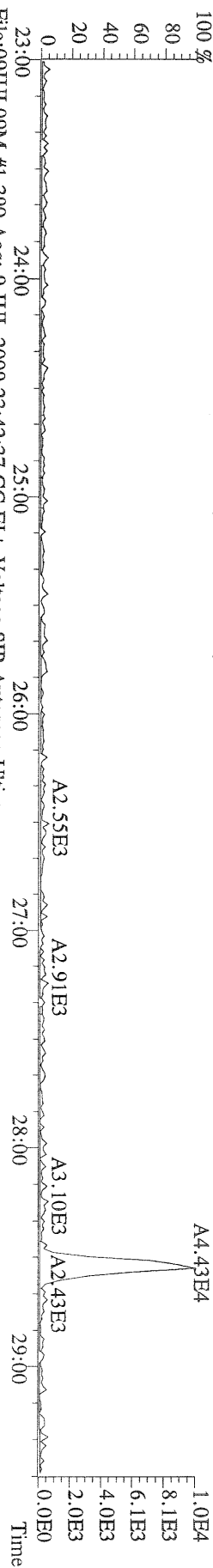
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Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



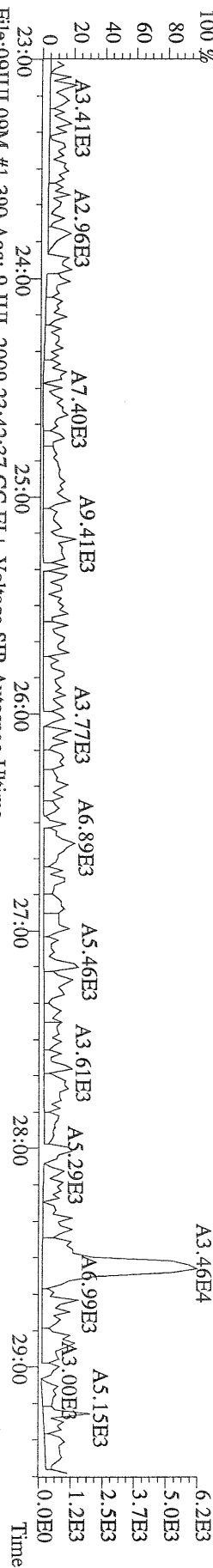
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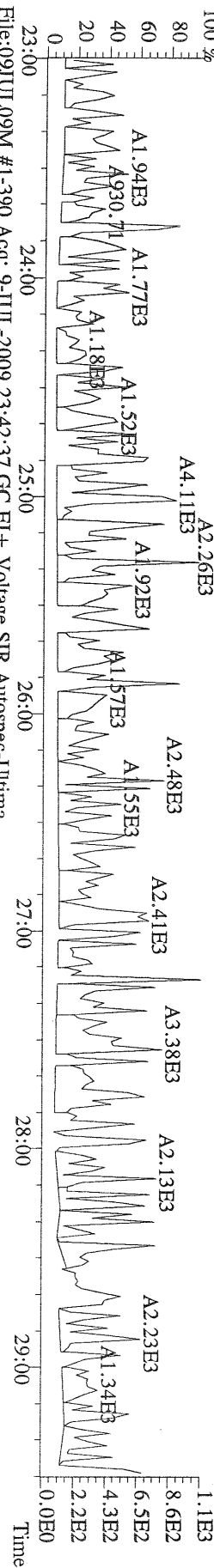
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Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



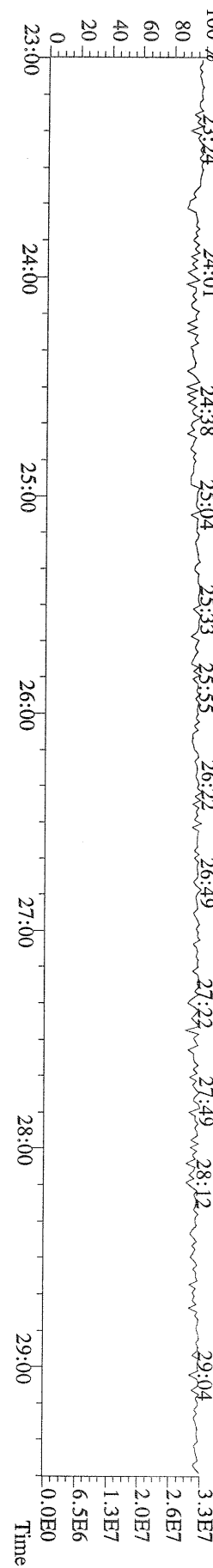
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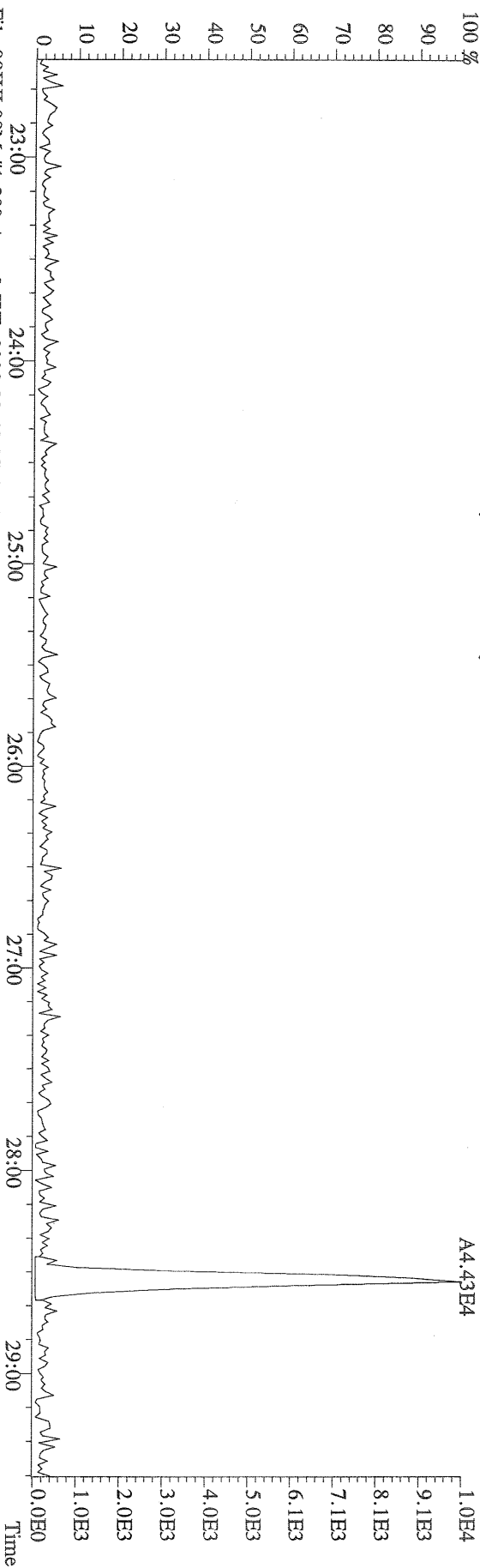
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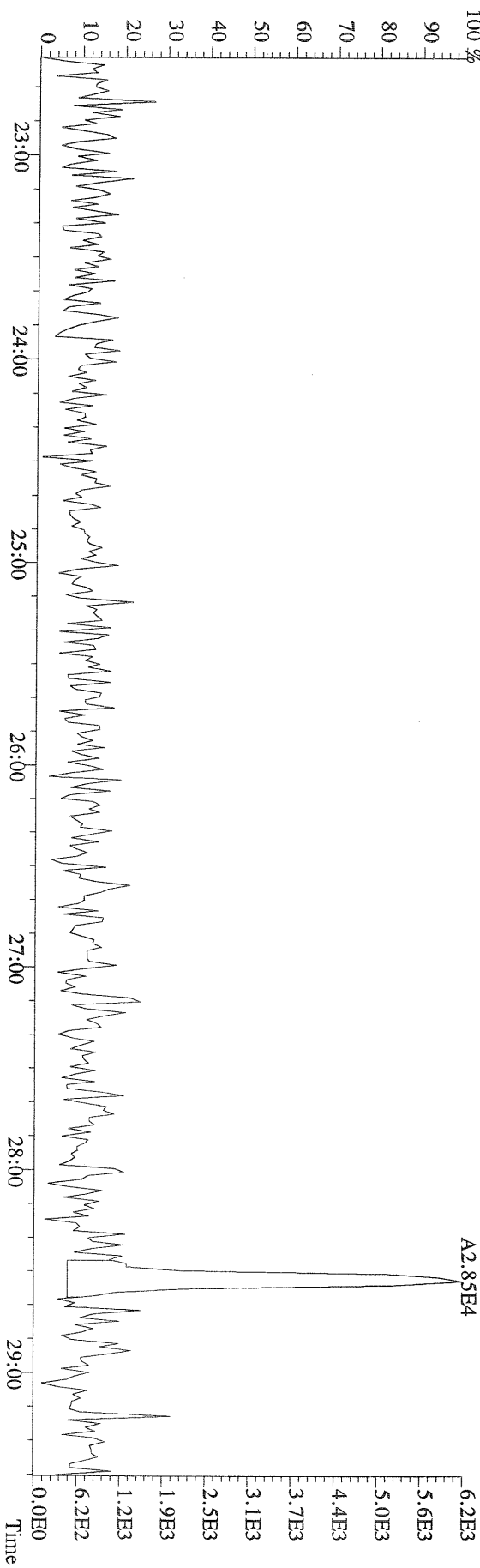
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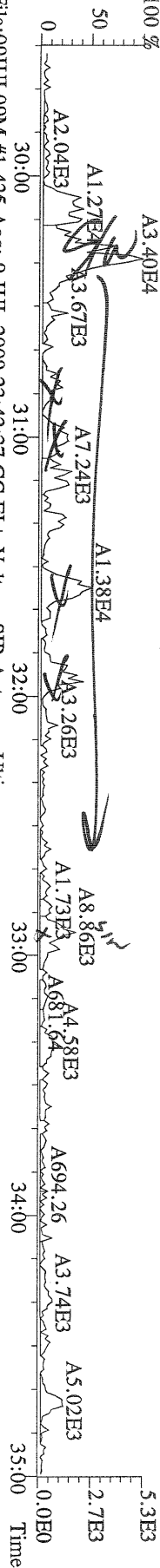
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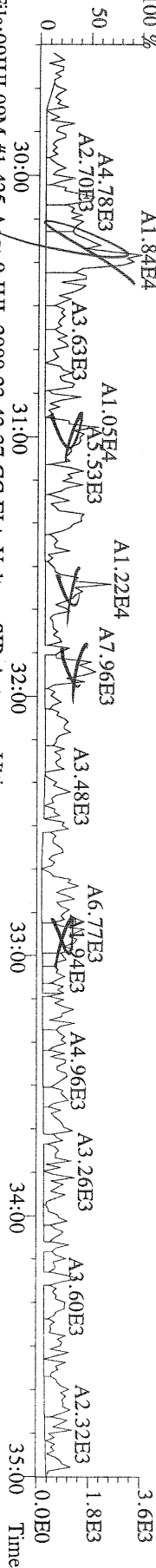
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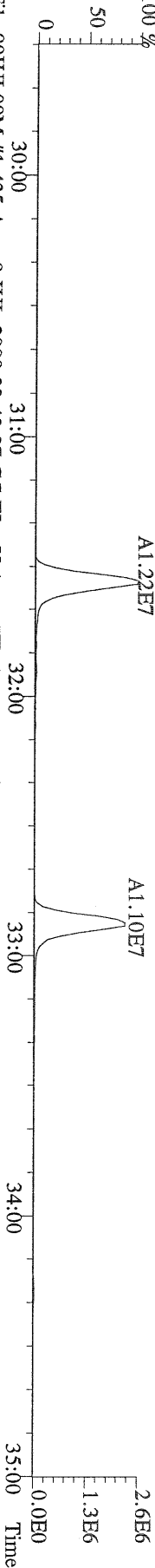
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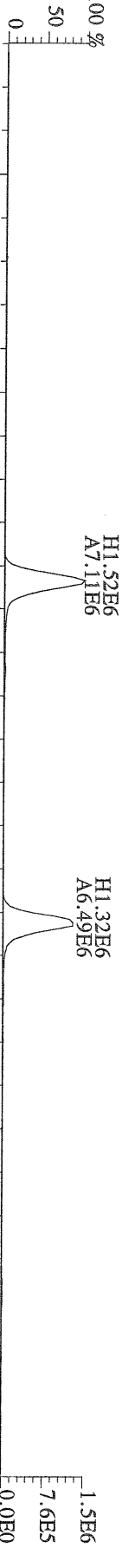
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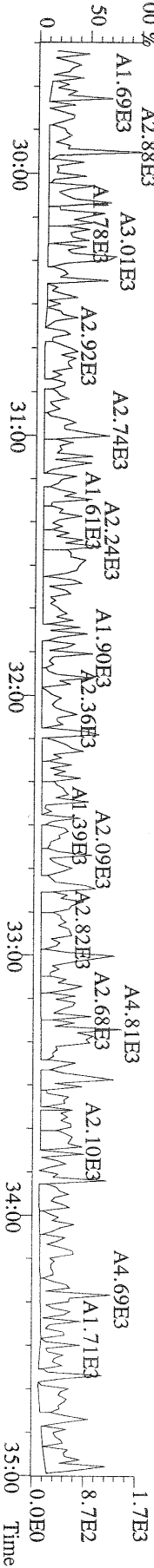
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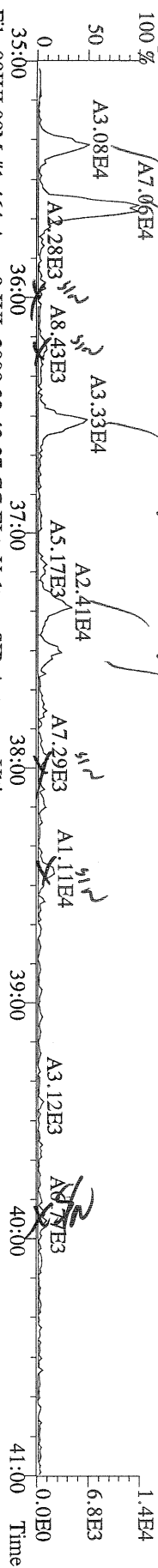
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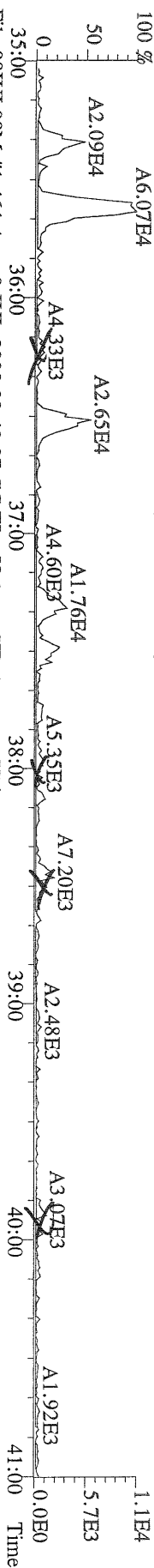
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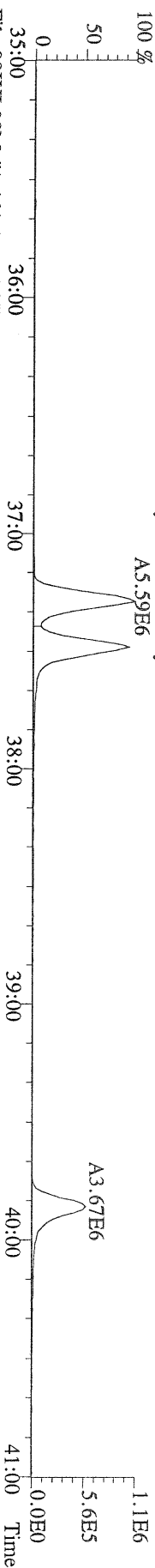
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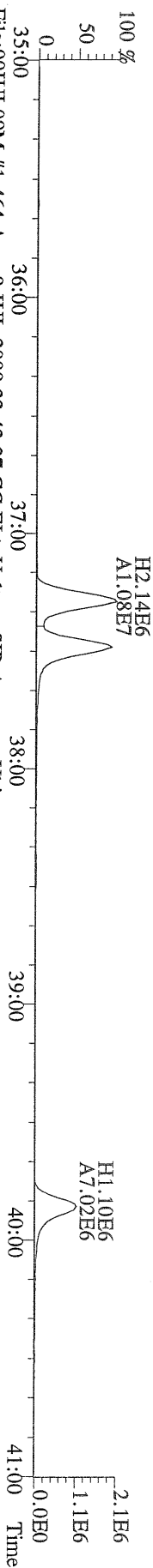
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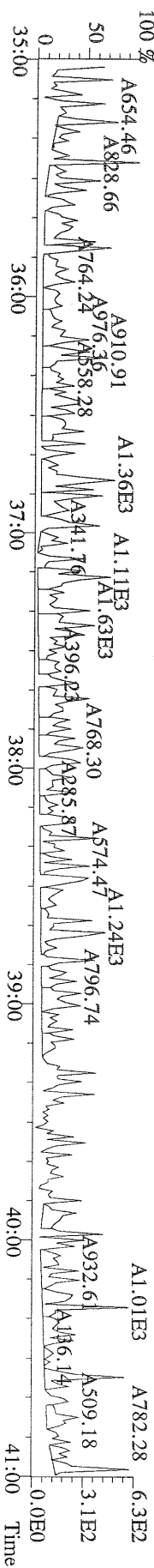
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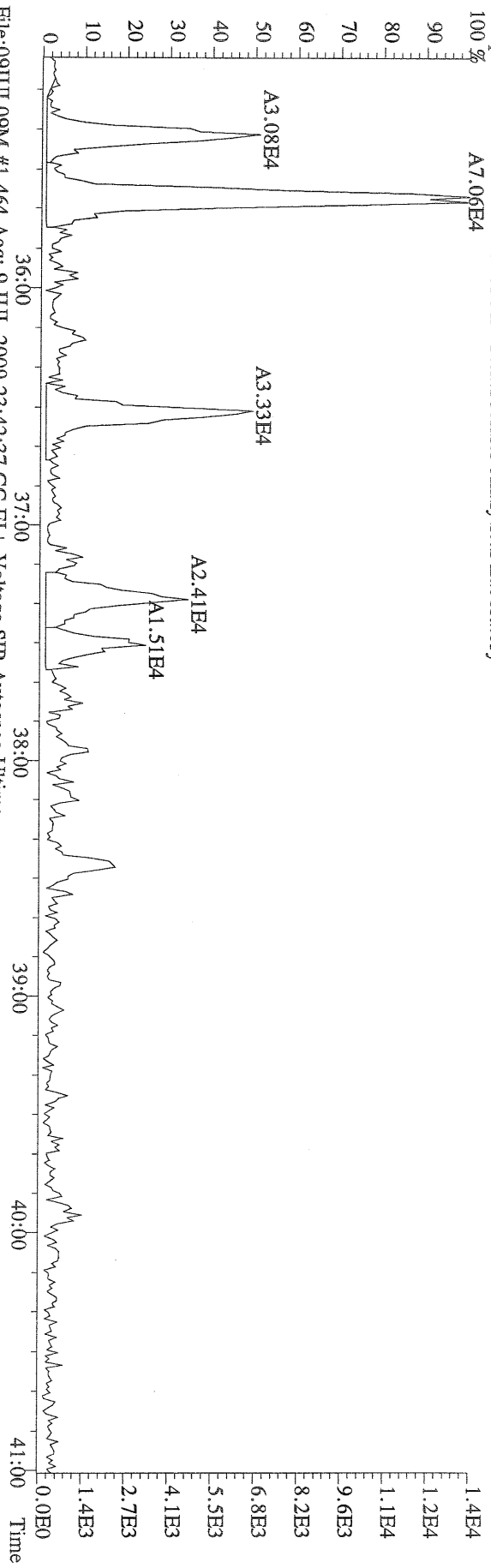
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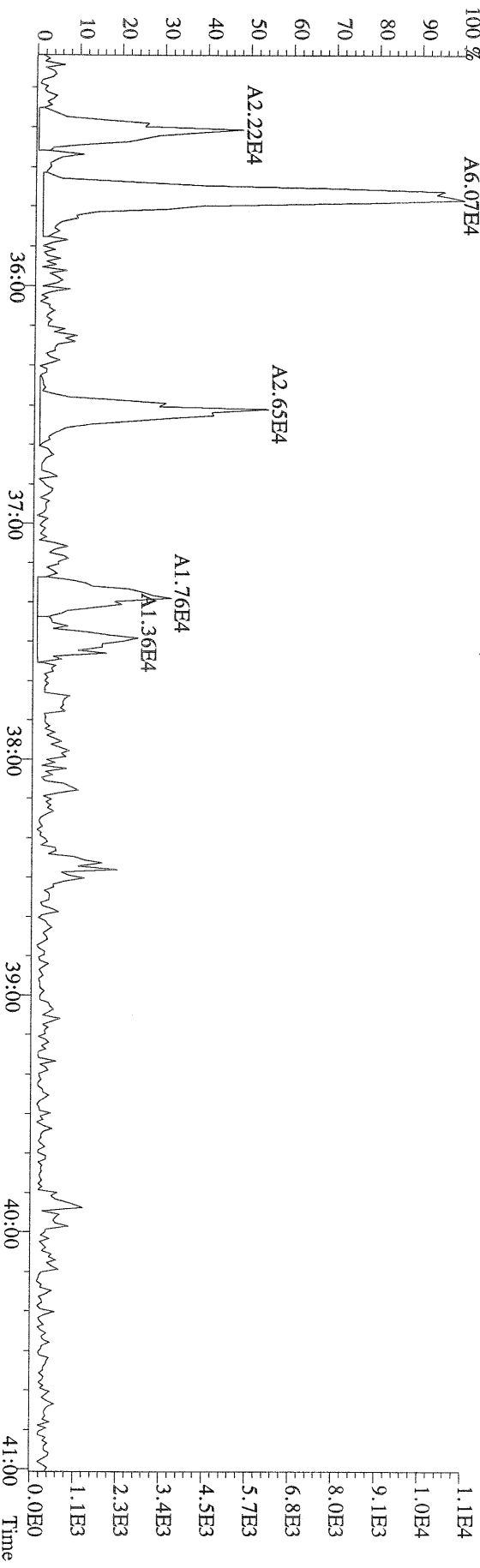
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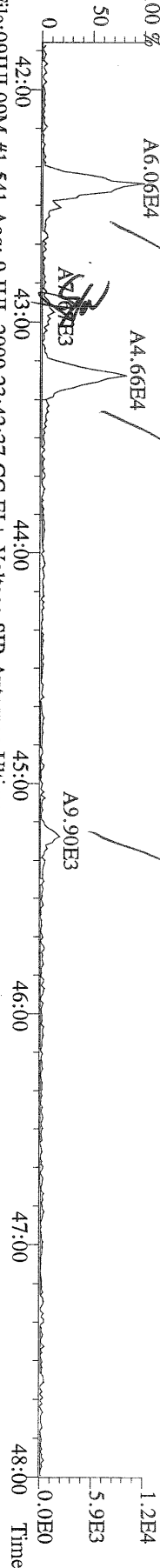
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Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



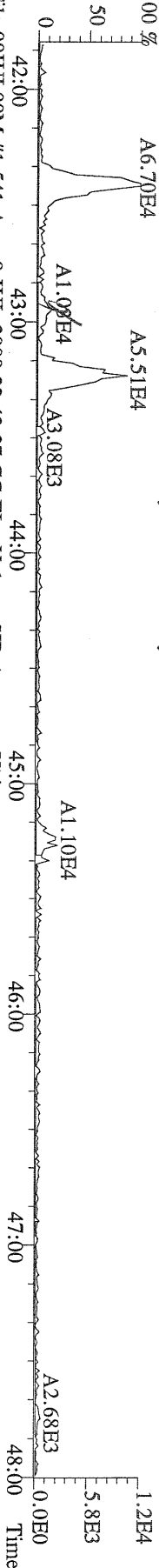
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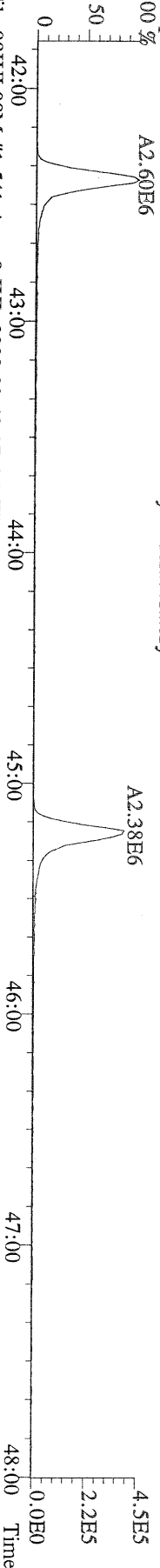
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Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



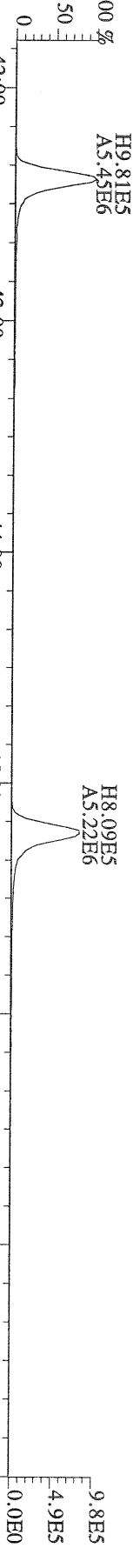
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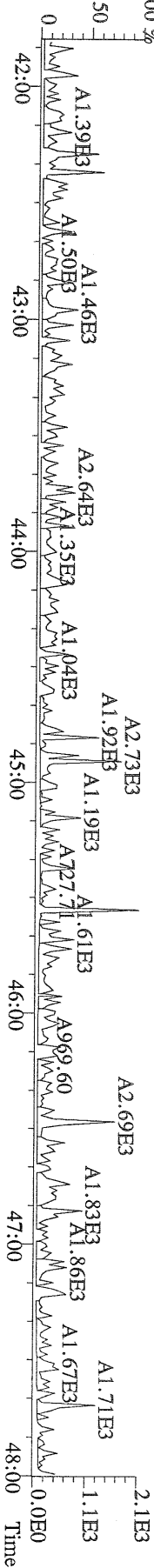
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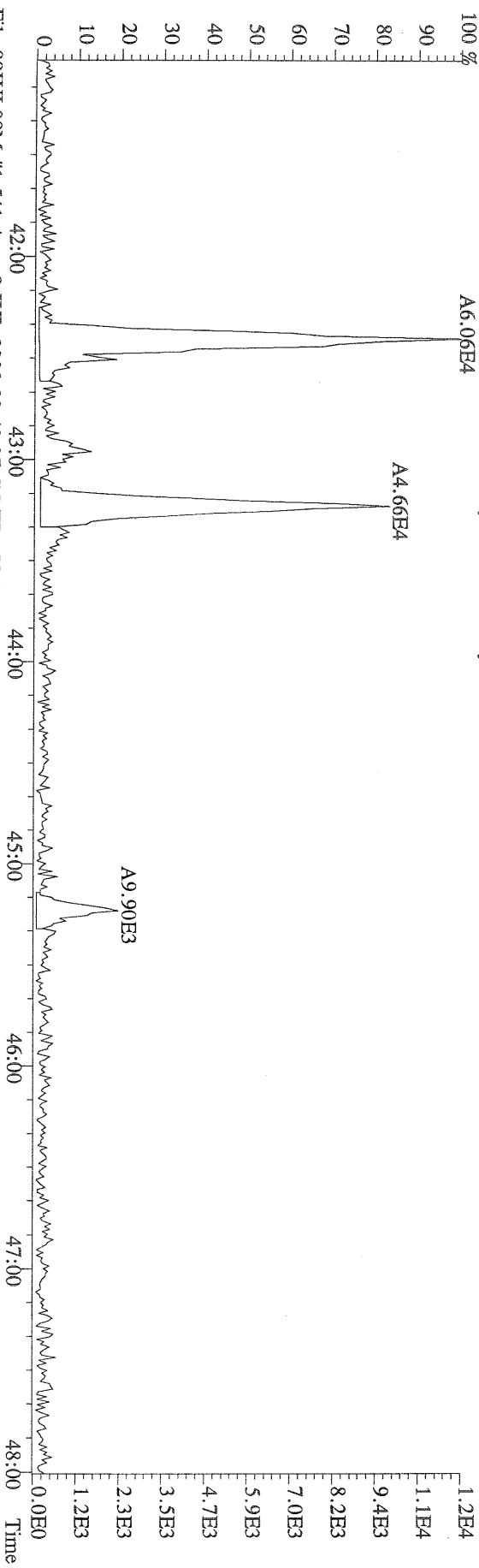
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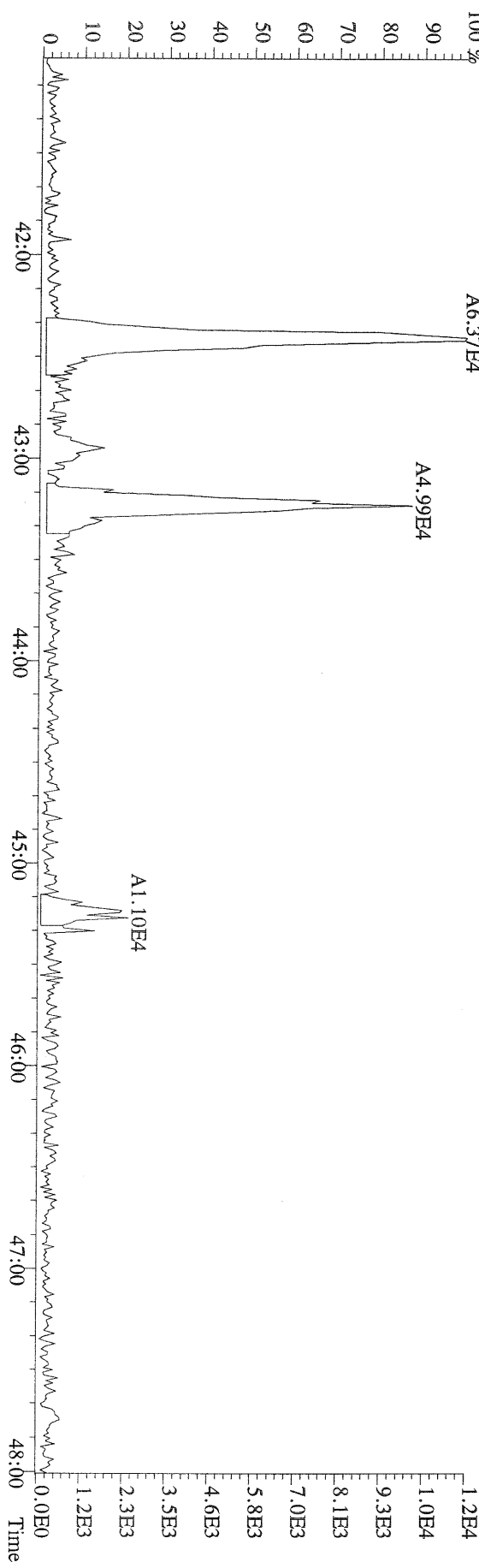
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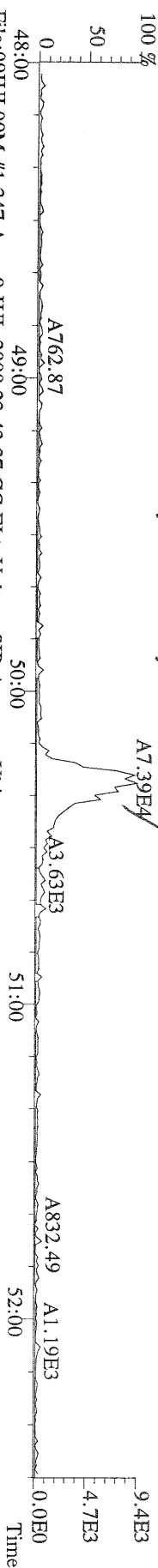
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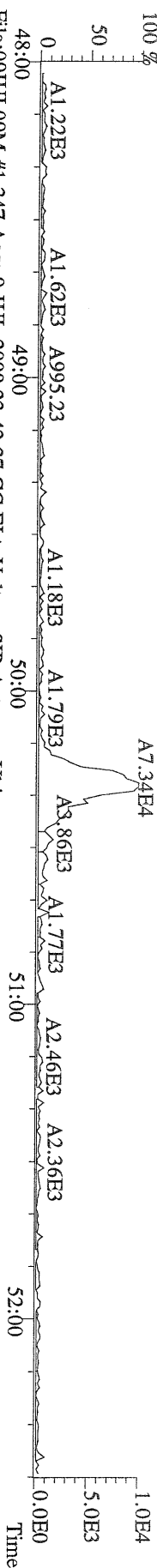
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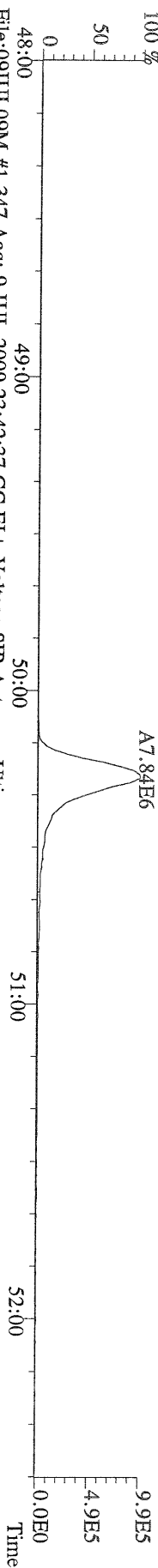
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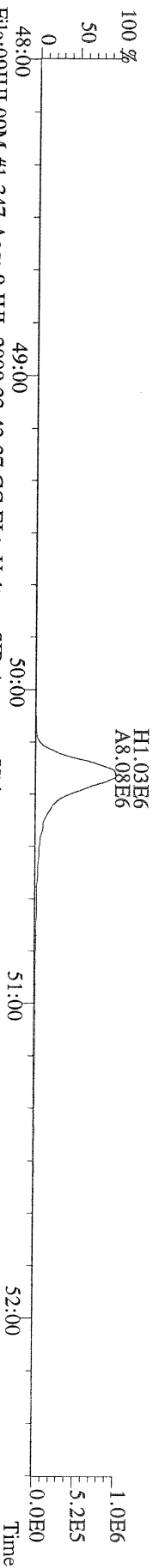
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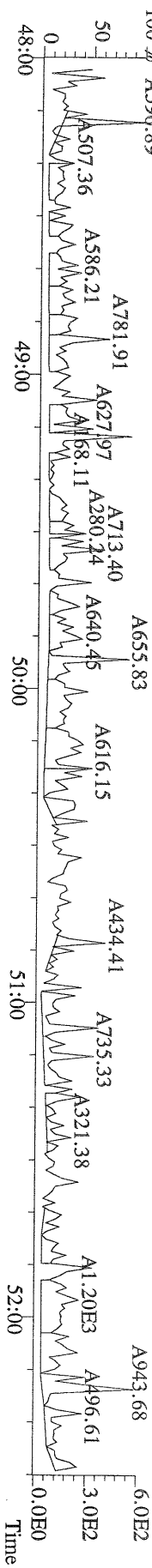
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Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory
100 % A7.84E6



File:09JUL09M.#1-347 Acq: 9-JUL-2009 23:42:37 GC EI+ Voltage SIR Autospec-Ultima
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Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory



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513.6775 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0.0,0.0%,F,F) Exp:PCDD
Sample Text:5557-008-0001-SA File Text:Frontier Analytical Laboratory
100 % A596,89 A655,83



FAL ID: 5557-009-0001-SA

Filename: 09JUL09M

Sam:13

Acquired: 10-JUL-09 00:37:52

ICal: AIRFAL3-6-29-09

Client ID: OFF-03-061709

ConCal: ST070909M1

EndCal: ST070909M2

Results: 5557

GC Column: DB5

Amount: 1.000

NATO 1989 Tox: 0.0297

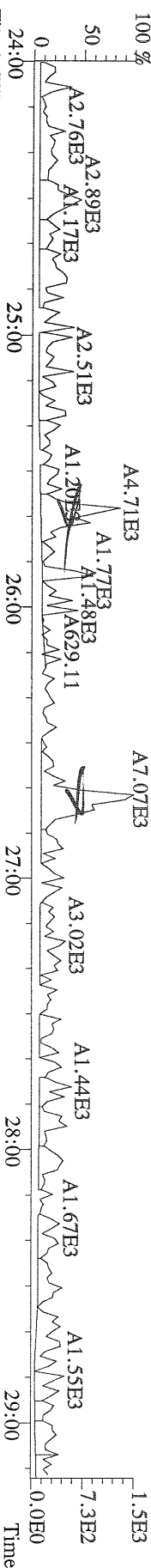
WHO 1998 Tox:0.00297

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
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1,2,3,7,8-PeCDD	*	* n	NotFnd	1.14	*		2.50	216	2.58	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.37	*		2.50	365	3.99	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.24	*		2.50	365	4.42	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.35	*		2.50	365	4.06	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.15	*		2.50	600	8.77	
OCDD	*	* n	NotFnd	1.43	*		2.50	413	14.3	
2,3,7,8-TCDF	*	* n	NotFnd	1.14	*		2.50	1200	4.55	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.90	*		2.50	458	4.02	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.86	*		2.50	458	4.25	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	749	4.92	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.04	*		2.50	749	4.82	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.94	*		2.50	749	5.33	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.88	*		2.50	749	5.72	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.51	*		2.50	786	7.32	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.11	*		2.50	786	9.89	
OCDF	3.92e+04	0.94 y	50:17	0.87	29.7	J	2.50	-	*	
13C-2,3,7,8-TCDD	1.45e+07	0.78 y	27:29	1.21	3620					Rec
13C-1,2,3,7,8-PeCDD	1.03e+07	1.76 y	33:18	0.83	3750					90.6
13C-1,2,3,6,7,8-HxCDD	7.88e+06	1.22 y	38:51	0.99	4160					93.8
13C-1,2,3,4,6,7,8-HpCDD	7.53e+06	1.04 y	44:19	1.03	3840					104
13C-OCDD	6.28e+06	0.97 y	49:55	0.64	5170					96.0
13C-2,3,7,8-TCDF	1.94e+07	0.88 y	26:44	1.33	3480					64.6
13C-1,2,3,7,8-PeCDF	1.59e+07	1.68 y	31:34	0.96	3930					
13C-1,2,3,6,7,8-HxCDF	1.28e+07	0.52 y	37:30	1.75	3850					87.1
13C-1,2,3,4,6,7,8-HpCDF	6.20e+06	0.47 y	42:24	1.00	3250					98.2
13C-OCDF	1.22e+07	0.98 y	50:17	1.11	5750					96.2
13C-1,2,3,7,8,9-HxCDF	9.86e+06	0.53 y	39:51	1.40	3690					81.2
37Cl-2,3,7,8-TCDD	8.06e+06		27:30	0.56	4010					71.8
13C-1,2,3,4,7,8-HxCDD	7.67e+06	1.20 y	38:41	1.05	3700					
13C-2,3,4,7,8-PeCDF	1.52e+07	1.71 y	32:52	0.93	4120					92.2
13C-1,2,3,4,7,8-HxCDF	1.26e+07	0.50 y	37:17	1.00	3930					100
13C-1,2,3,4,7,8,9-HpCDF	5.84e+06	0.46 y	45:13	0.82	4570					92.5
13C-1,2,3,4-TCDD	1.32e+07	0.79 y	26:55	-	31.6					103
13C-2,3,7,8-TCDF	1.68e+07	0.87 y	25:38	-	24.9					98.3
13C-1,2,3,7,8,9-HxCDD	7.62e+06	1.21 y	39:18	-	25.9					114
Total Tetra-Dioxins	*		NotFnd	1.14	*		Fac	Noise	DL	#Hom
Total Penta-Dioxins	*		NotFnd	1.14	*		2.50	519	2.42	0
Total Hexa-Dioxins	*		NotFnd	1.32	*		2.50	216	2.58	0
Total Hepta-Dioxins	*		NotFnd	1.15	*		2.50	365	4.42	0
Total Tetra-Furans	*		NotFnd	1.14	*		2.50	600	8.77	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.88	*		2.50	1200	4.55	0
Total Penta-Furans	*		NotFnd	0.88	*		2.50	458	4.25	0
Total Hexa-Furans	*		NotFnd	0.97	*		2.50	458	4.25	0
Total Hepta-Furans	*		NotFnd	1.31	*		2.50	749	5.72	0
							2.50	786	9.89	0

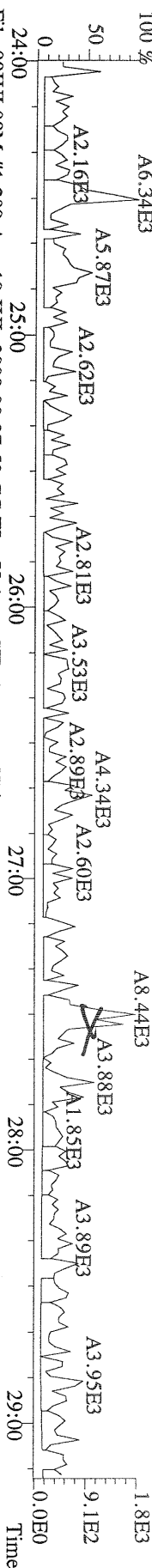
Analyst: 

Date: 7/10/09

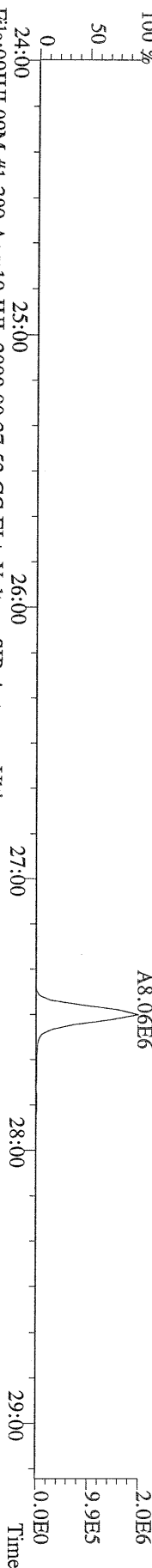
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319.8965 S:13 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



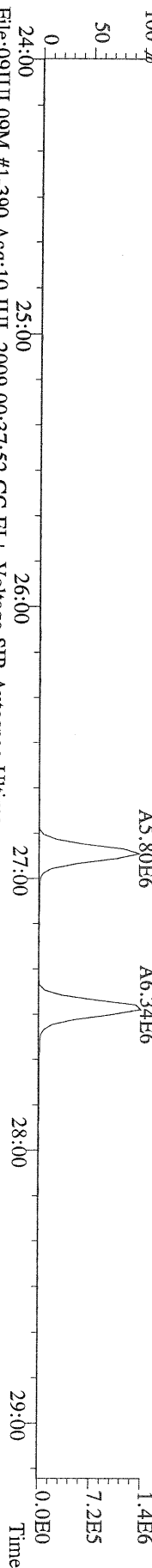
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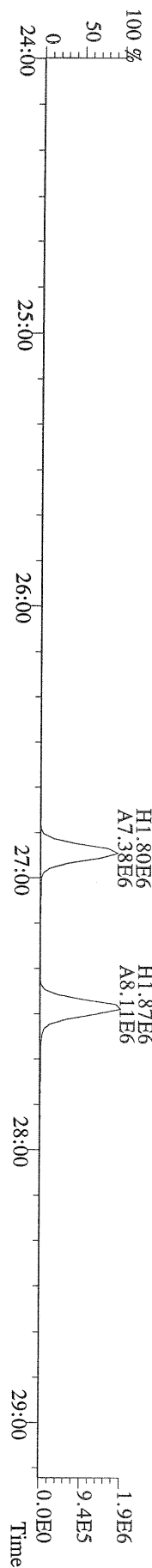
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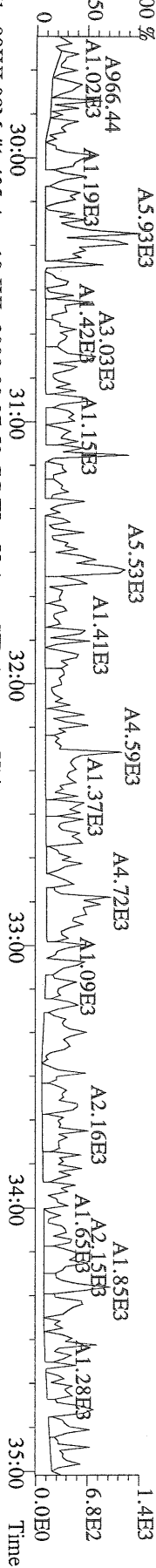
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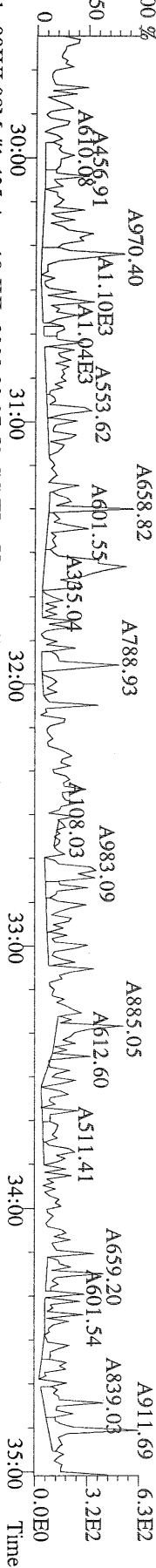
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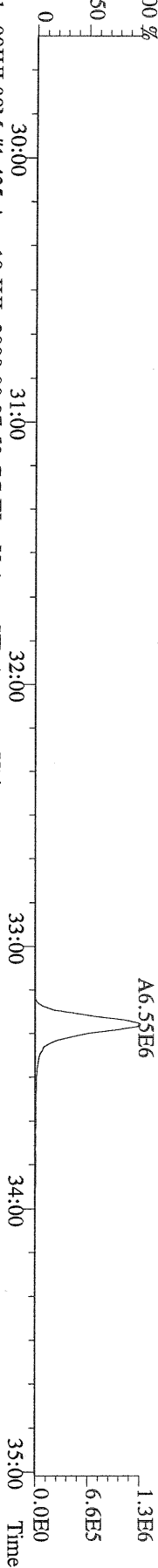
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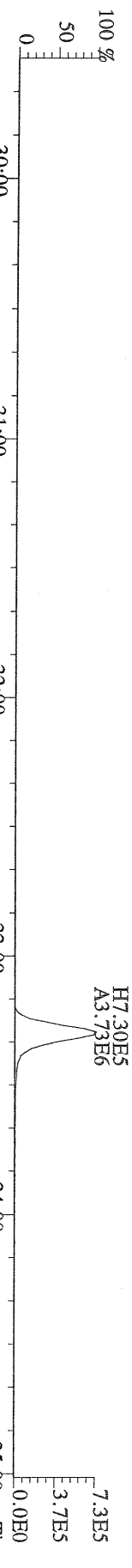
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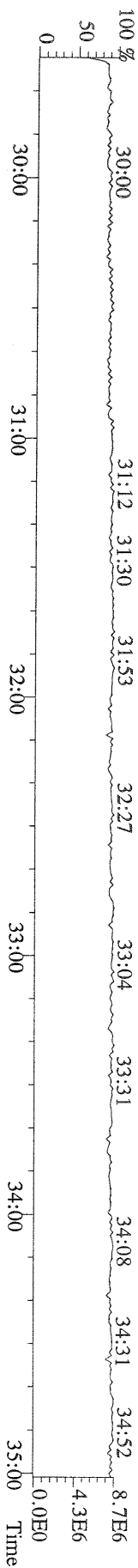
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367.8949 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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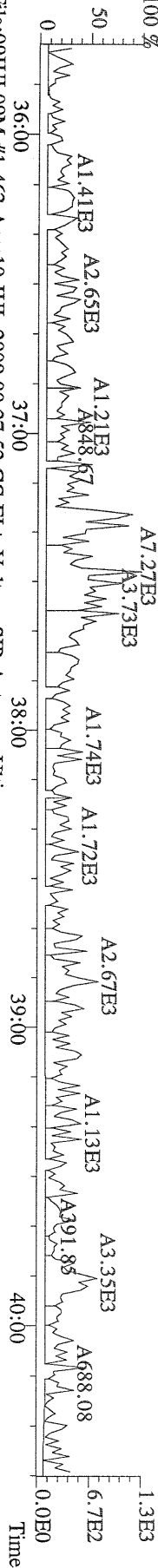
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369.8919 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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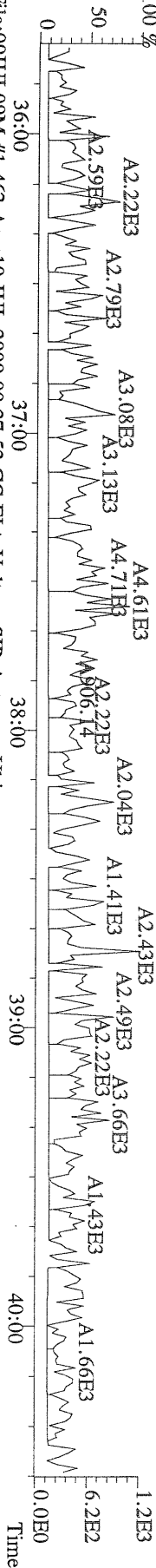
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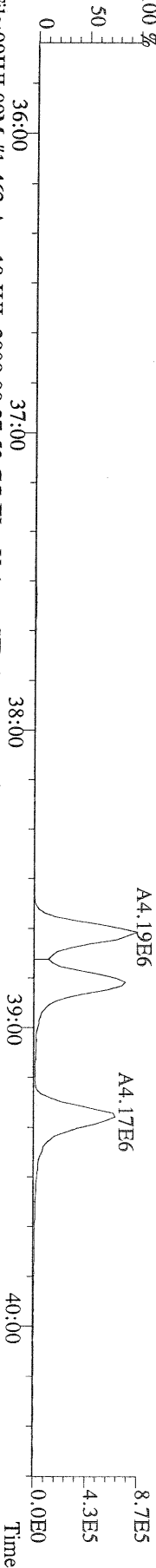
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389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



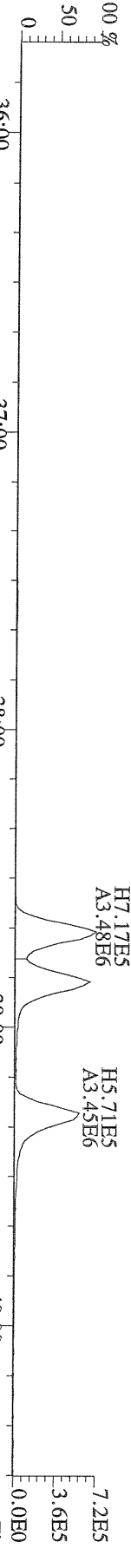
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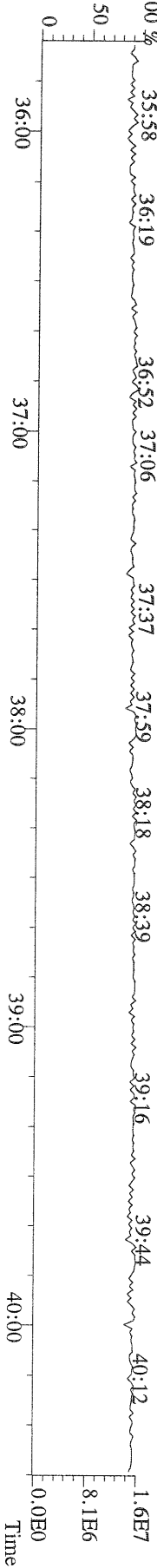
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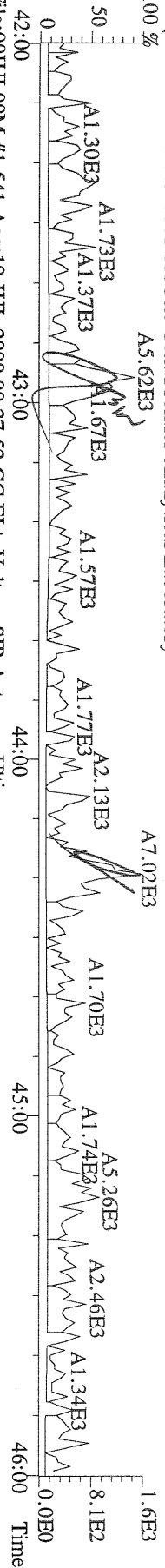
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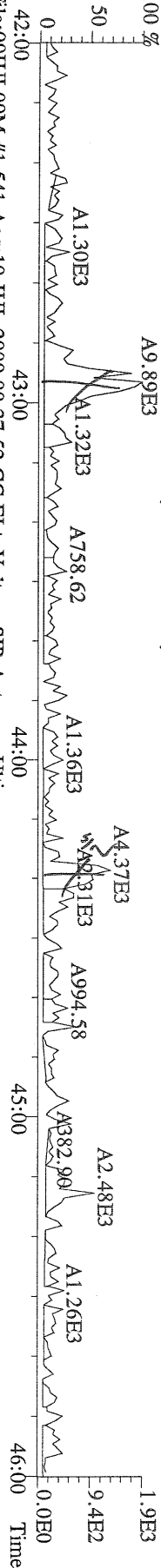
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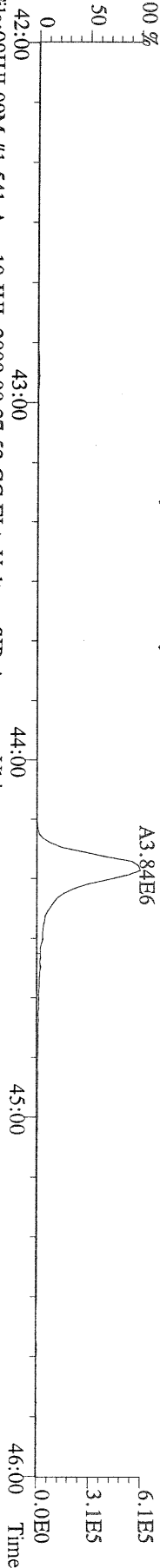
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423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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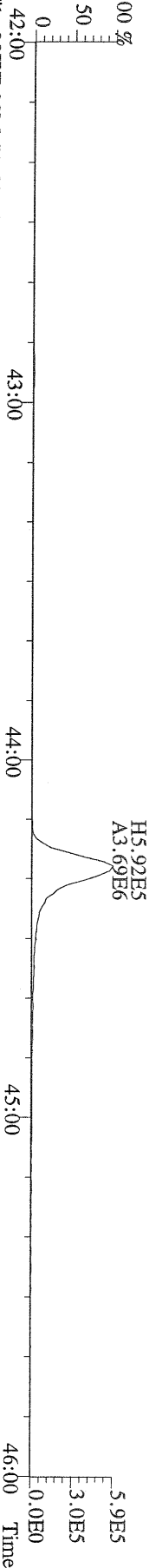
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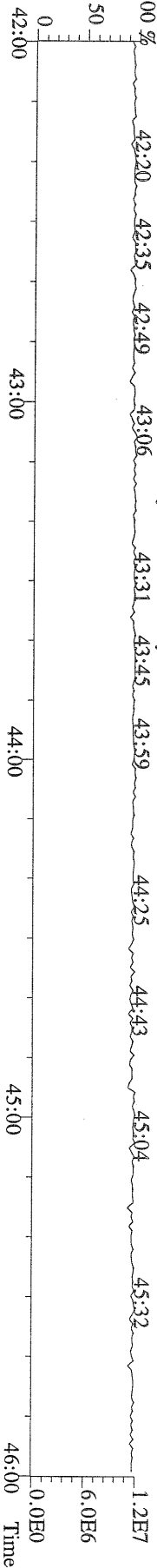
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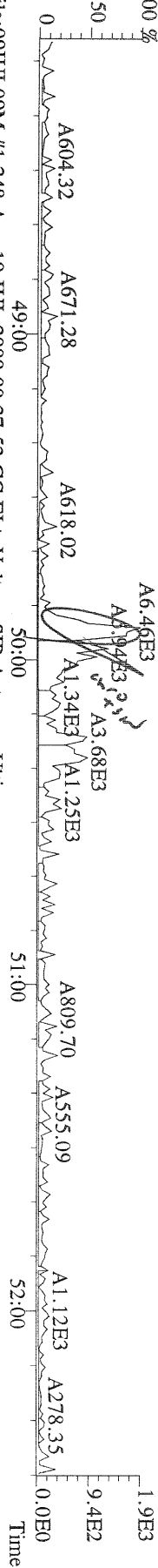
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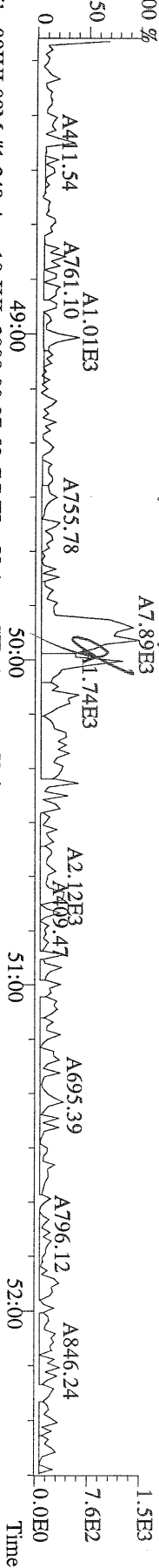
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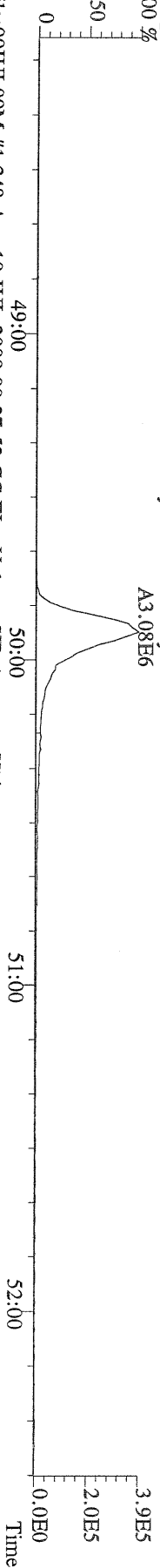
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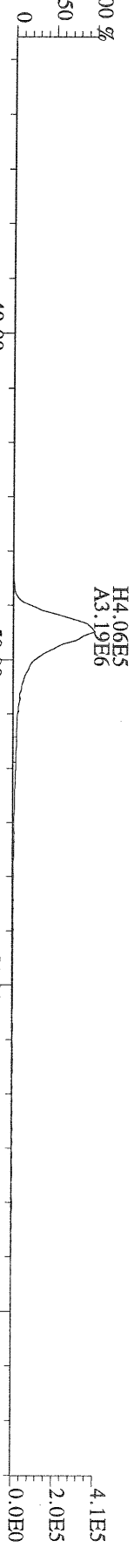
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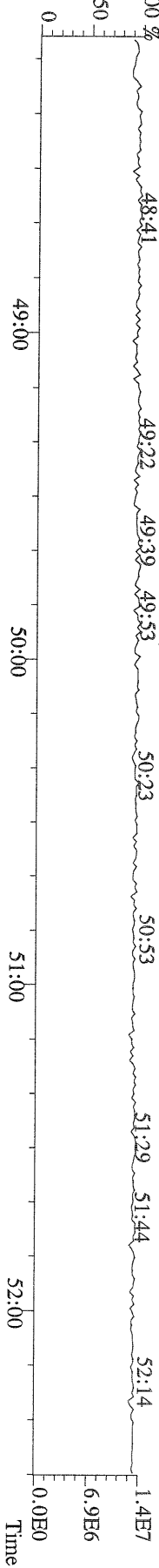
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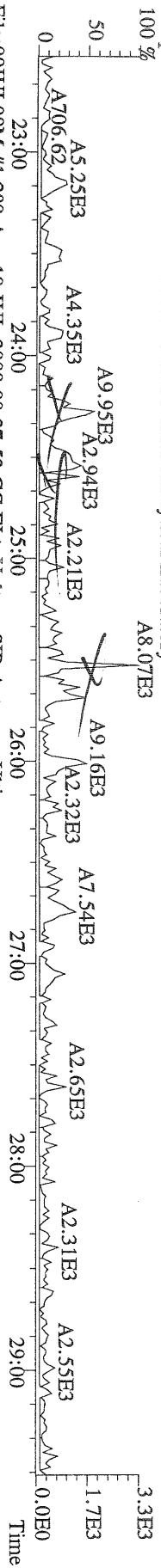
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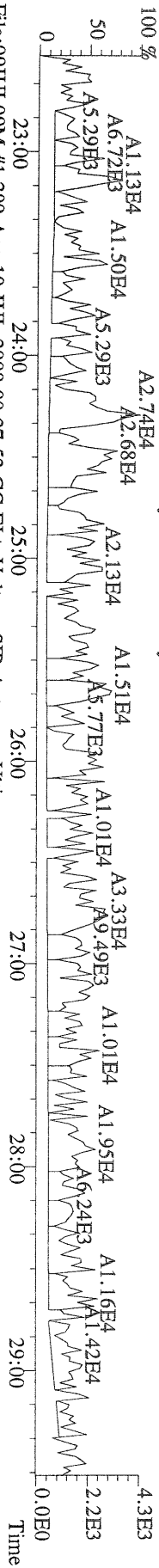
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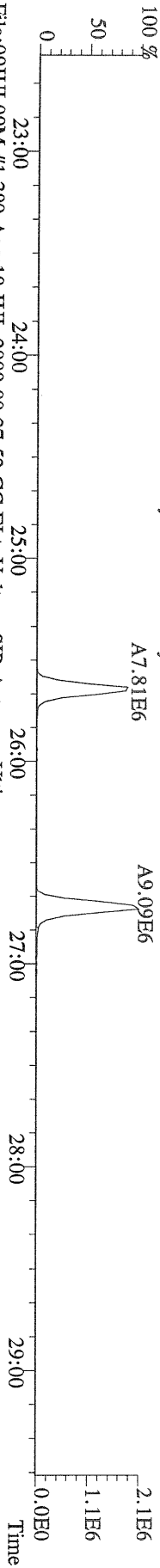
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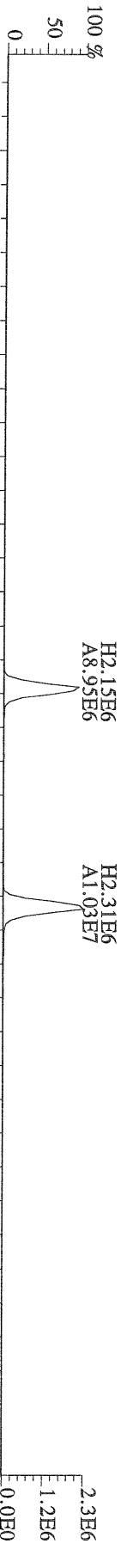
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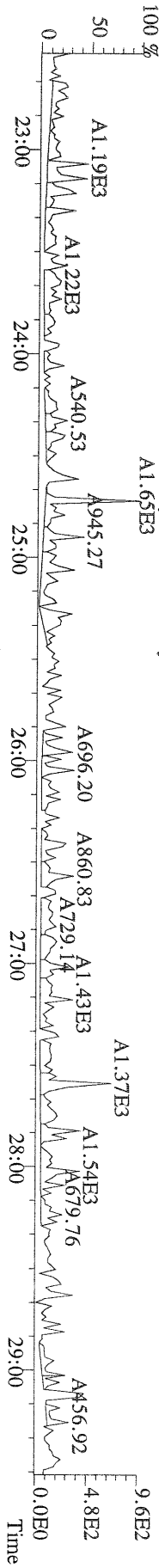
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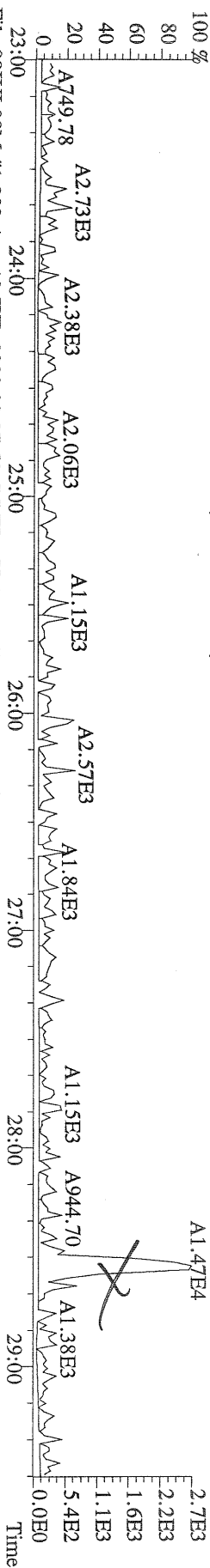
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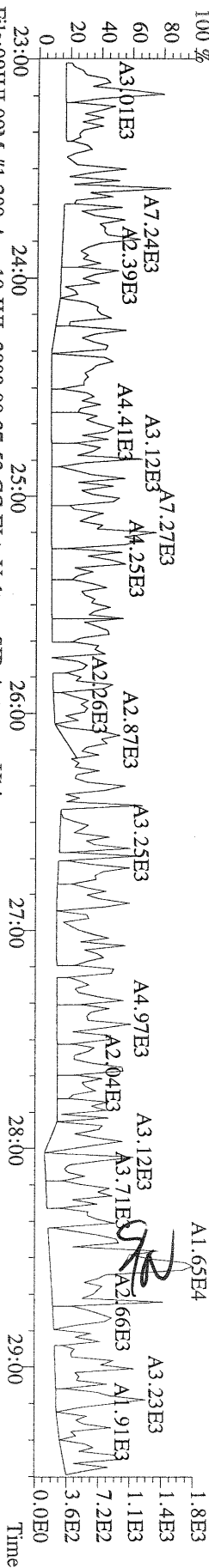
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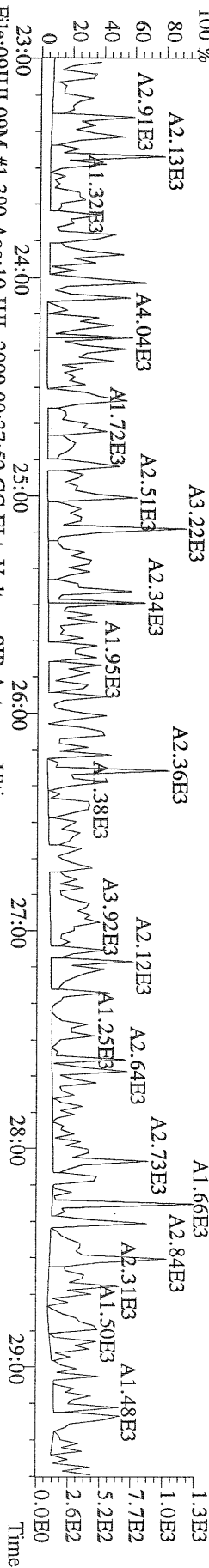
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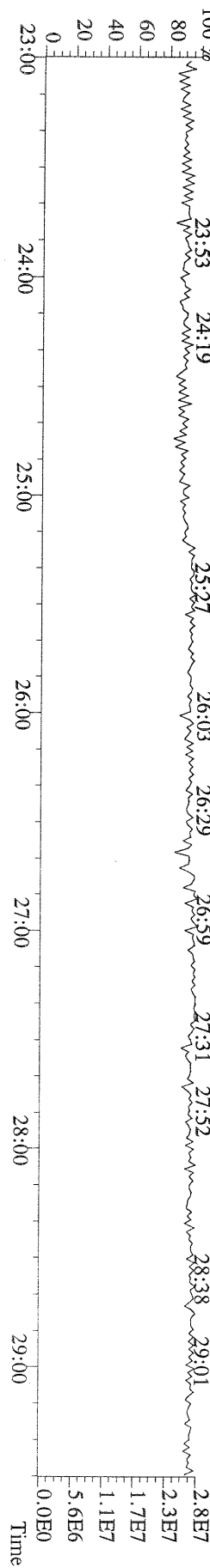
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Sample Text:5557-009-0001-SA File Text:Fronter Analytical Laboratory



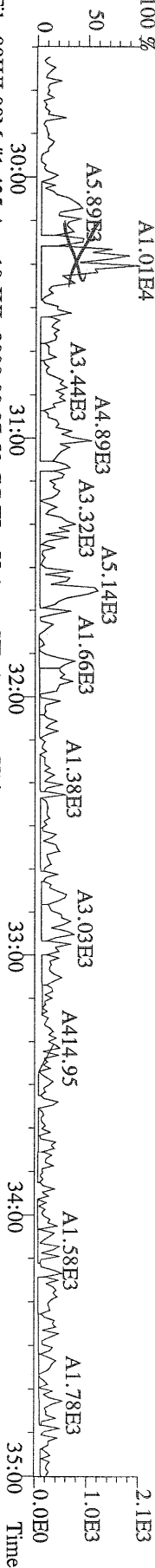
File:09JUL09M #1-390 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Fronter Analytical Laboratory



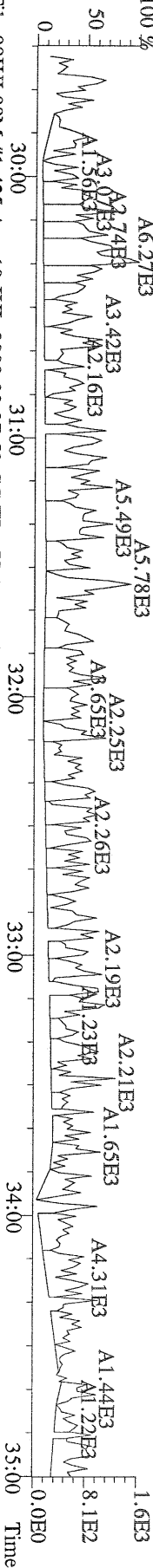
File:09JUL09M #1-390 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
330.9792 S:13 Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Fronter Analytical Laboratory



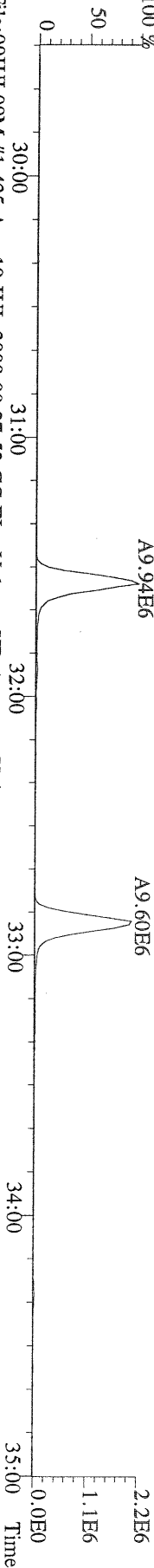
File:09JUL09M #1-425 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



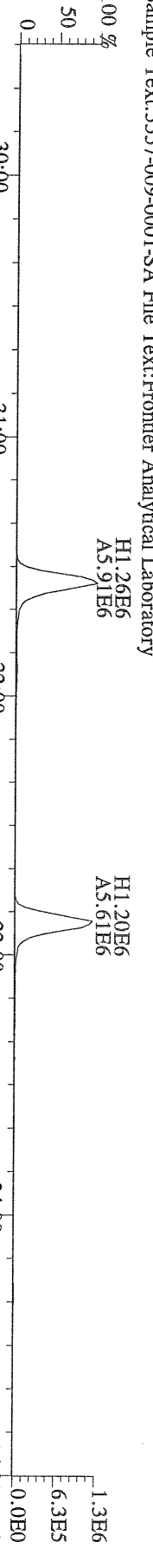
File:09JUL09M #1-425 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



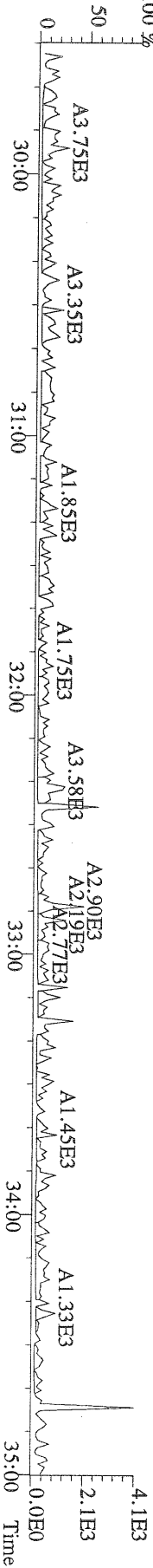
File:09JUL09M #1-425 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



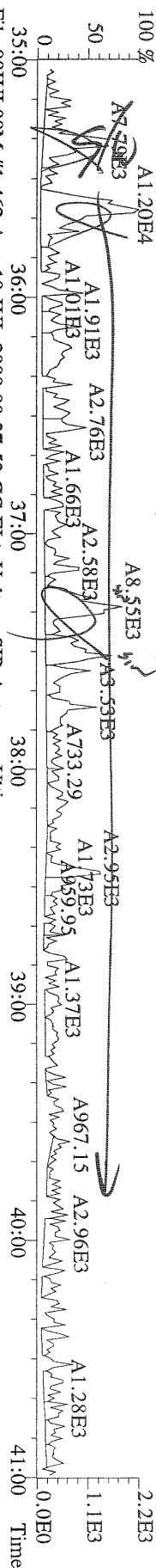
File:09JUL09M #1-425 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



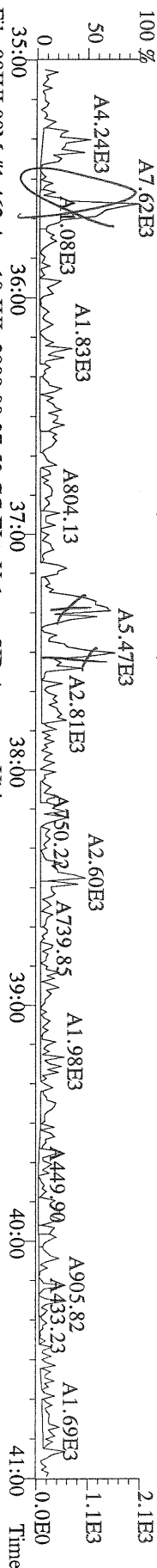
File:09JUL09M #1-425 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



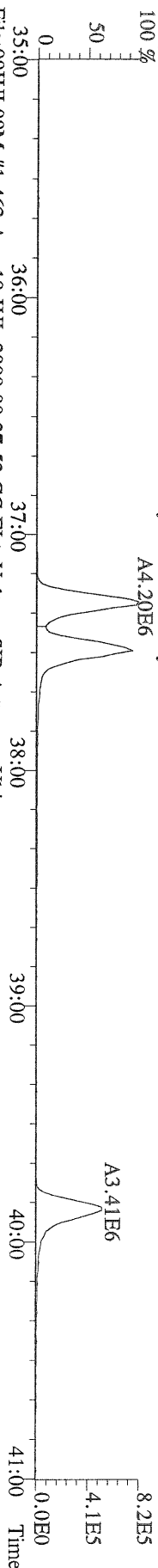
File:09JUL09M #1-463 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



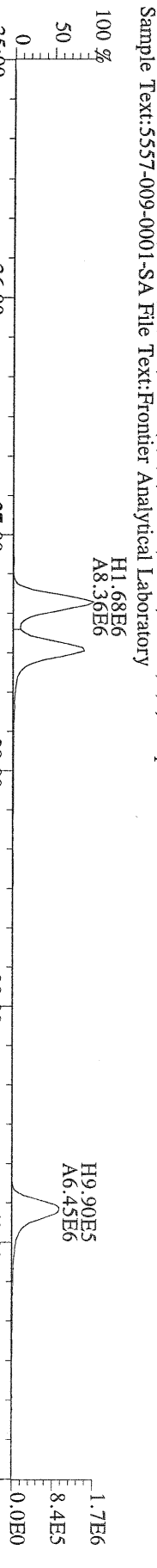
File:09JUL09M #1-463 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



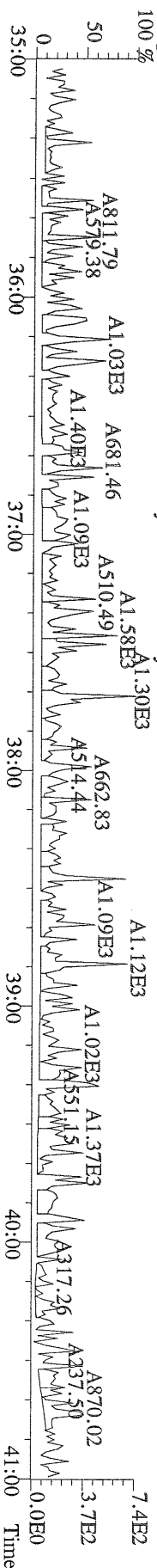
File:09JUL09M #1-463 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



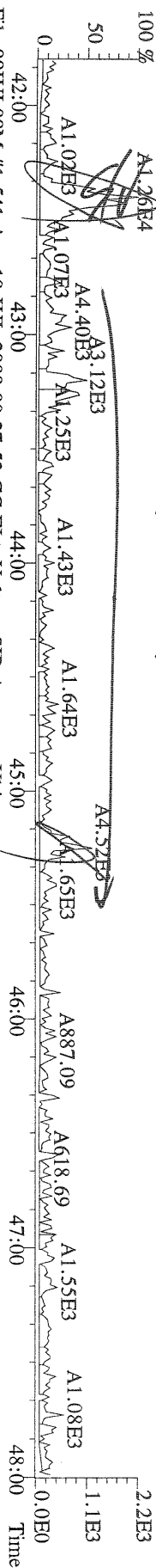
File:09JUL09M #1-463 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
385.8610 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



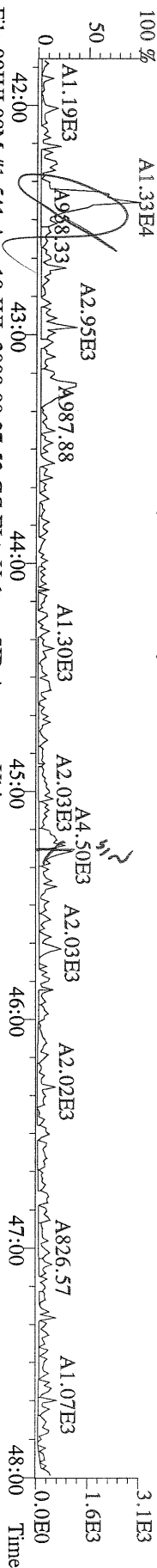
File:09JUL09M #1-463 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



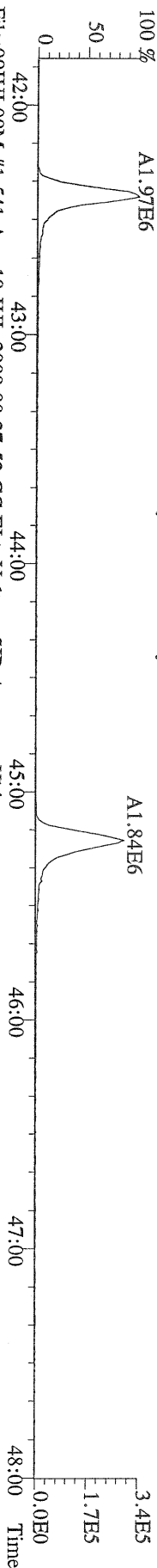
File:09JUL09M #1-541 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



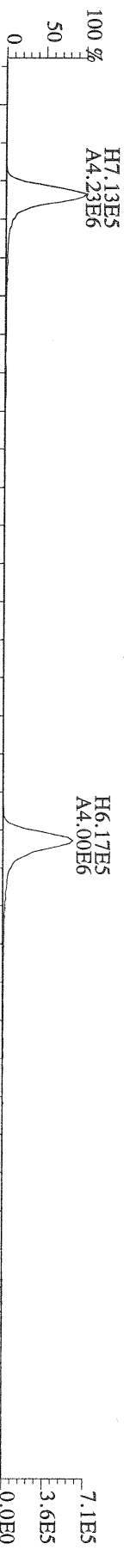
File:09JUL09M #1-541 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



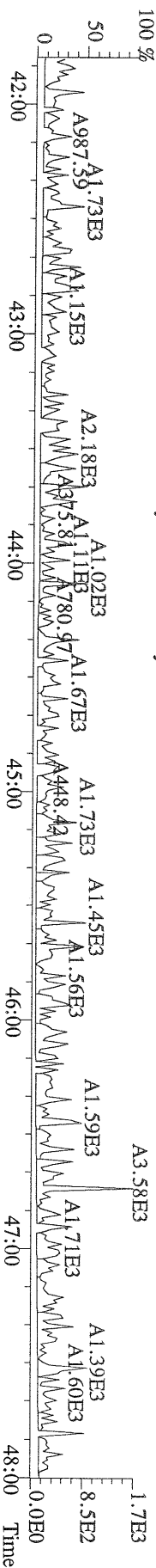
File:09JUL09M #1-541 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



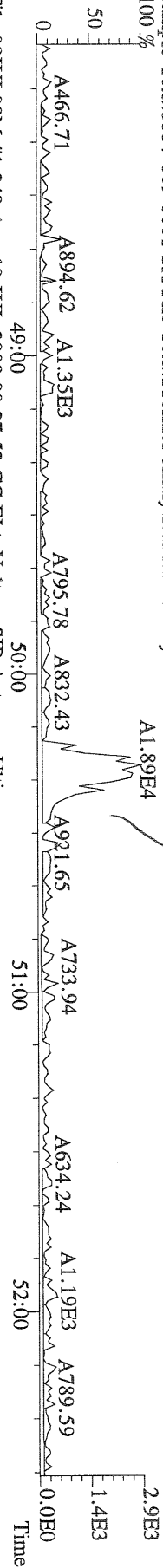
File:09JUL09M #1-541 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



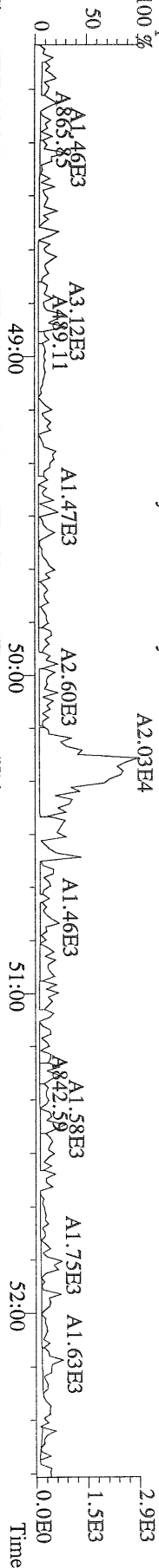
File:09JUL09M #1-541 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



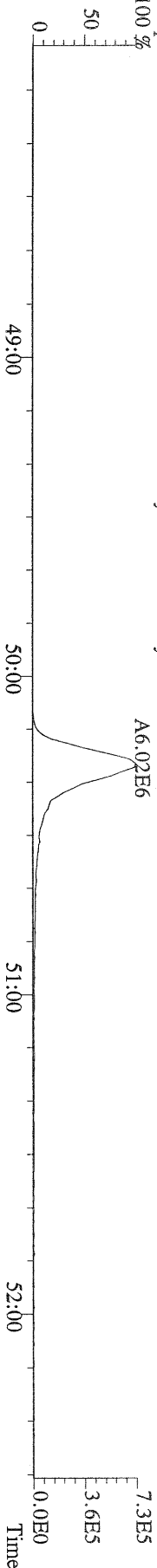
File:09JUL09M #1-348 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



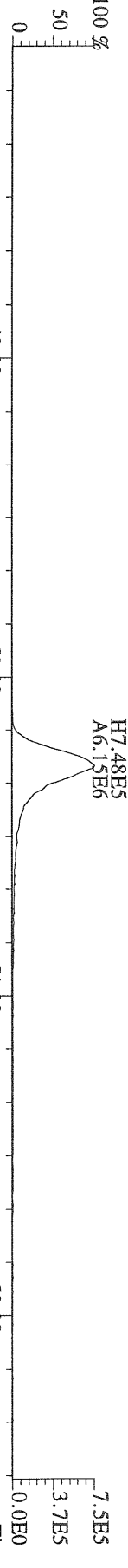
File:09JUL09M #1-348 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



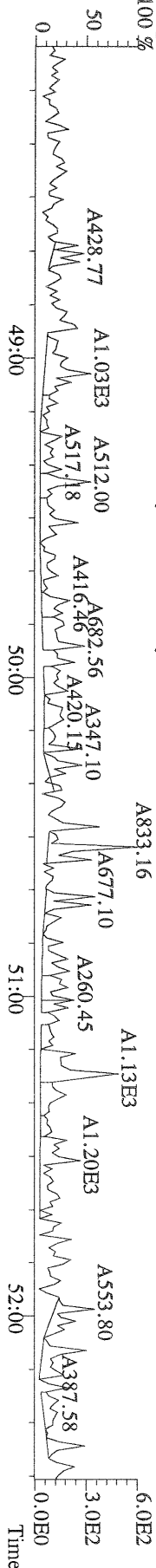
File:09JUL09M #1-348 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



File:09JUL09M #1-348 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory



File:09JUL09M #1-348 Acq:10-JUL-2009 00:37:52 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5557-009-0001-SA File Text:Frontier Analytical Laboratory




Frontier Analytical Laboratory

Data Filename: 29JUN09M

Analyte: AIRFAL3-6-29-09

Cal: AIRFAL3-6-29-09

Name	RRF	S. D.	%RSD	S1 RRF#1	S2 RRF#2	S3 RRF#3	S4 RRF#4	S5 RRF#5	S6 RRF#6
2,3,7,8-TCDD	1.14	0.0770	6.74 %	1.26	1.20	1.16	1.08	1.08	1.08
1,2,3,7,8-PeCDD	1.14	0.0251	2.20 %	1.17	1.17	1.14	1.11	1.13	1.13
1,2,3,4,7,8-HxCDD	1.37	0.0662	4.82 %	1.49	1.41	1.34	1.31	1.35	1.34
1,2,3,6,7,8-HxCDD	1.24	0.0623	5.03 %	1.32	1.31	1.22	1.17	1.21	1.21
1,2,3,7,8,9-HxCDD	1.35	0.0672	4.98 %	1.44	1.44	1.30	1.30	1.32	1.32
1,2,3,4,6,7,8-HpCDD	1.15	0.0482	4.18 %	1.21	1.21	1.16	1.12	1.11	1.11
OCDD	1.43	0.0429	3.00 %	1.49	1.46	1.41	1.38	1.42	1.40
2,3,7,8-TCDF	1.14	0.0814	7.13 %	1.24	1.21	1.18	1.10	1.05	1.06
1,2,3,7,8-PeCDF	0.90	0.0261	2.89 %	0.95	0.92	0.88	0.89	0.89	0.89
2,3,4,7,8-PeCDF	0.86	0.0185	2.16 %	0.88	0.88	0.85	0.83	0.85	0.85
1,2,3,4,7,8-HxCDF	1.02	0.0310	3.04 %	1.06	1.05	1.00	0.97	1.02	1.02
1,2,3,6,7,8-HxCDF	1.04	0.0143	1.37 %	1.05	1.06	1.04	1.02	1.04	1.04
2,3,4,6,7,8-HxCDF	0.94	0.0331	3.51 %	0.97	0.98	0.92	0.89	0.94	0.95
1,2,3,7,8,9-HxCDF	0.88	0.0355	4.04 %	0.91	0.89	0.84	0.83	0.88	0.91
1,2,3,4,6,7,8-HpCDF	1.51	0.0232	1.54 %	1.49	1.54	1.50	1.48	1.51	1.52
1,2,3,4,7,8,9-HpCDF	1.11	0.0296	2.66 %	1.14	1.08	1.15	1.10	1.09	1.13
OCDF	0.87	0.0258	2.97 %	0.91	0.88	0.84	0.84	0.87	0.87
13C-2,3,7,8-TCDD	1.21	0.0159	1.31 %	1.21	1.19	1.21	1.20	1.23	1.22
13C-1,2,3,7,8-PeCDD	0.83	0.0344	4.13 %	0.81	0.79	0.82	0.84	0.84	0.89
13C-1,2,3,6,7,8-HxCDD	0.99	0.0163	1.64 %	0.98	0.98	1.02	1.01	0.99	0.99
13C-1,2,3,4,6,7,8-HpCDD	1.03	0.0166	1.61 %	1.04	1.03	1.05	1.03	1.01	1.01
13C-OCDD	0.64	0.0112	1.76 %	0.64	0.64	0.62	0.64	0.63	0.65
13C-2,3,7,8-TCDF	1.33	0.0145	1.09 %	1.32	1.33	1.33	1.31	1.33	1.36
13C-1,2,3,7,8-PeCDF	0.96	0.0587	6.09 %	0.90	0.91	0.94	0.97	1.00	1.06
13C-1,2,3,6,7,8-HxCDF	1.75	0.0283	1.62 %	1.75	1.73	1.76	1.80	1.75	1.72
13C-1,2,3,4,6,7,8-HpCDF	1.00	0.0267	2.67 %	1.03	1.02	0.96	0.99	0.98	1.02
13C-OCDF	1.11	0.0172	1.55 %	1.10	1.12	1.09	1.11	1.12	1.13
13C-1,2,3,7,8,9-HxCDF	1.40	0.0231	1.65 %	1.41	1.42	1.39	1.37	1.40	1.43
37Cl-2,3,7,8-TCDD	0.56	0.0131	2.35 %	0.54	0.58	0.57	0.55	0.55	0.55
13C-1,2,3,4,7,8-HxCDD	1.05	0.0179	1.71 %	1.03	1.07	1.05	1.03	1.07	1.06
13C-2,3,4,7,8-PeCDF	0.93	0.0207	2.22 %	0.89	0.94	0.95	0.94	0.93	0.94
13C-1,2,3,4,7,8-HxCDF	1.00	0.0264	2.65 %	0.99	1.02	1.03	0.97	0.98	0.97
13C-1,2,3,4,7,8,9-HpCDF	0.82	0.0329	3.99 %	0.79	0.84	0.88	0.82	0.81	0.81
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-
13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-	-
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-	-
Total Tetra-Dioxins	1.14	0.0770	6.74 %	1.26	1.20	1.16	1.08	1.08	1.08
Total Penta-Dioxins	1.14	0.0251	2.20 %	1.17	1.17	1.14	1.11	1.13	1.13
Total Hexa-Dioxins	1.32	0.0638	4.83 %	1.42	1.38	1.29	1.26	1.29	1.29
Total Hepta-Dioxins	1.15	0.0482	4.18 %	1.21	1.21	1.16	1.12	1.11	1.11
Total Tetra-Furans	1.14	0.0814	7.13 %	1.24	1.21	1.18	1.10	1.05	1.06
1st Fn. Tot Penta-Furans	0.88	0.0213	2.42 %	0.92	0.90	0.87	0.86	0.87	0.87
Total Penta-Furans	0.88	0.0213	2.42 %	0.92	0.90	0.87	0.86	0.87	0.87
Total Hexa-Furans	0.97	0.0266	2.74 %	0.99	1.00	0.95	0.93	0.97	0.98
Total Hepta-Furans	1.31	0.0151	1.15 %	1.31	1.31	1.33	1.29	1.30	1.32

Analyst: Date: 6/30/09

Run #1 Filename 29JUN09M
Client ID: ST062909M0

S: 1

Acquired: 29-JUN-09 09:31:31

Cal: AIRFAL3-6-29-09

Analyte: AIR

FAL ID: AIR CS0 (090121F)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.25	1.41e+05	0.67 y	27:31	-	1.26 y
2	Unk	1,2,3,7,8-PeCDD	1.25	4.37e+05	1.65 y	33:19	-	1.17 y
3	Unk	1,2,3,4,7,8-HxCDD	1.25	4.42e+05	1.30 y	38:41	-	1.49 y
4	Unk	1,2,3,6,7,8-HxCDD	1.25	3.93e+05	1.33 y	38:50	-	1.32 y
5	Unk	1,2,3,7,8,9-HxCDD	1.25	4.27e+05	1.32 y	39:18	-	1.44 y
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	3.85e+05	0.99 y	44:17	-	1.21 y
7	Unk	OCDD	2.50	5.84e+05	0.88 y	49:51	-	1.49 y
8	Unk	2,3,7,8-TCDF	0.25	2.53e+05	0.67 y	26:47	-	1.24 y
9	Unk	1,2,3,7,8-PeCDF	1.25	6.58e+05	1.50 y	31:36	-	0.951 y
10	Unk	2,3,4,7,8-PeCDF	1.25	6.10e+05	1.48 y	32:54	-	0.881 y
11	Unk	1,2,3,4,7,8-HxCDF	1.25	5.59e+05	1.25 y	37:17	-	1.06 y
12	Unk	1,2,3,6,7,8-HxCDF	1.25	5.53e+05	1.25 y	37:30	-	1.05 y
13	Unk	2,3,4,6,7,8-HxCDF	1.25	5.13e+05	1.27 y	38:26	-	0.969 y
14	Unk	1,2,3,7,8,9-HxCDF	1.25	4.80e+05	1.24 y	39:52	-	0.908 y
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	4.66e+05	1.06 y	42:23	-	1.49 y
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	3.57e+05	1.09 y	45:12	-	1.14 y
17	Unk	OCDF	2.50	6.05e+05	0.90 y	50:14	-	0.909 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.47e+07	0.79 y	27:30	-	1.21 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.99e+07	1.72 y	33:18	-	0.806 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.37e+07	1.25 y	38:49	-	0.979 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.53e+07	1.05 y	44:16	-	1.04 y
22	IS	13C-OCDD	200.00	3.13e+07	0.90 y	49:50	-	0.645 y
23	IS	13C-2,3,7,8-TCDF	100.00	8.14e+07	0.84 y	26:45	-	1.32 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	5.54e+07	1.68 y	31:35	-	0.901 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.23e+07	0.53 y	37:28	-	1.75 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.51e+07	0.46 y	42:22	-	1.03 y
27	IS	13C-OCDF	200.00	5.32e+07	0.95 y	50:13	-	1.10 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	3.41e+07	0.53 y	39:50	-	1.41 y
29	PSS	37Cl-2,3,7,8-TCDD	40.00	9.72e+06		27:31	-	0.544 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	40.00	9.80e+06	1.24 y	38:39	-	1.03 y
31	PSS	13C-2,3,4,7,8-PeCDF	40.00	1.97e+07	1.69 y	32:53	-	0.891 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	40.00	1.68e+07	0.55 y	37:16	-	0.991 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	40.00	7.92e+06	0.47 y	45:11	-	0.790 y
34	RS	13C-1,2,3,4-TCDD	100.00	3.70e+07	0.79 y	26:56	3.70e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	6.14e+07	0.85 y	25:40	6.14e+05	- n
36	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	2.43e+07	1.26 y	39:16	2.43e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.26 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.17 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.42 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.21 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.24 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.916 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.916 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.995 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.31 y

Analyst: 

Date: 6/30/09

Run #2 Filename 29JUN09M
Client ID: ST062909M1

S: 2

Acquired: 29-JUN-09 10:26:46

Cal: AIRFAL3-6-29-09

Analyte: AIR

FAL ID: AIR CS1 (090121G)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.50	2.39e+05	0.75 y	27:31	-	1.20 y
2	Unk	1,2,3,7,8-PeCDD	2.50	7.78e+05	1.62 y	33:19	-	1.17 y
3	Unk	1,2,3,4,7,8-HxCDD	2.50	7.73e+05	1.29 y	38:41	-	1.41 y
4	Unk	1,2,3,6,7,8-HxCDD	2.50	7.19e+05	1.29 y	38:51	-	1.31 y
5	Unk	1,2,3,7,8,9-HxCDD	2.50	7.88e+05	1.30 y	39:18	-	1.44 y
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	7.00e+05	1.01 y	44:18	-	1.21 y
7	Unk	OCDD	5.00	1.05e+06	0.88 y	49:52	-	1.46 y
8	Unk	2,3,7,8-TCDF	0.50	4.35e+05	0.69 y	26:46	-	1.21 y
9	Unk	1,2,3,7,8-PeCDF	2.50	1.14e+06	1.50 y	31:35	-	0.919 y
10	Unk	2,3,4,7,8-PeCDF	2.50	1.08e+06	1.52 y	32:54	-	0.876 y
11	Unk	1,2,3,4,7,8-HxCDF	2.50	1.02e+06	1.31 y	37:18	-	1.05 y
12	Unk	1,2,3,6,7,8-HxCDF	2.50	1.03e+06	1.27 y	37:29	-	1.06 y
13	Unk	2,3,4,6,7,8-HxCDF	2.50	9.41e+05	1.26 y	38:26	-	0.976 y
14	Unk	1,2,3,7,8,9-HxCDF	2.50	8.59e+05	1.32 y	39:52	-	0.891 y
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	8.75e+05	1.08 y	42:23	-	1.54 y
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	6.14e+05	1.11 y	45:13	-	1.08 y
17	Unk	OCDF	5.00	1.10e+06	0.87 y	50:14	-	0.882 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	3.97e+07	0.79 y	27:30	-	1.19 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.65e+07	1.72 y	33:18	-	0.792 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.20e+07	1.26 y	38:50	-	0.984 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.31e+07	1.07 y	44:15	-	1.03 y
22	IS	13C-OCDD	200.00	2.86e+07	0.91 y	49:52	-	0.641 y
23	IS	13C-2,3,7,8-TCDF	100.00	7.17e+07	0.84 y	26:45	-	1.33 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	4.94e+07	1.65 y	31:34	-	0.914 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.86e+07	0.53 y	37:28	-	1.73 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.27e+07	0.46 y	42:21	-	1.02 y
27	IS	13C-OCDF	200.00	5.00e+07	0.94 y	50:13	-	1.12 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	3.17e+07	0.53 y	39:50	-	1.42 y
29	PSS	37Cl-2,3,7,8-TCDD	60.00	1.37e+07		27:31	-	0.576 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	60.00	1.41e+07	1.28 y	38:40	-	1.07 y
31	PSS	13C-2,3,4,7,8-PeCDF	60.00	2.80e+07	1.67 y	32:53	-	0.943 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	60.00	2.37e+07	0.54 y	37:16	-	1.02 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	60.00	1.14e+07	0.46 y	45:11	-	0.837 y
34	RS	13C-1,2,3,4-TCDD	100.00	3.34e+07	0.81 y	26:55	3.34e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	5.41e+07	0.83 y	25:40	5.41e+05	- n
36	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	2.23e+07	1.26 y	39:16	2.23e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.20 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.17 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.38 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.21 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.21 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.897 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.897 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.996 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.31 y

Analyst: 

Date: 6/30/09

Run #3 Filename 29JUN09M
Client ID: ST062909M2

S: 3

Acquired: 29-JUN-09 11:22:08

Cal: AIRFAL3-6-29-09

Analyte: AIR

FAL ID: AIR CS2 (090121H)


	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	1.00	5.45e+05	0.73 y	27:32	-	1.16 y
2	Unk	1,2,3,7,8-PeCDD	5.00	1.81e+06	1.65 y	33:19	-	1.14 y
3	Unk	1,2,3,4,7,8-HxCDD	5.00	1.78e+06	1.33 y	38:41	-	1.34 y
4	Unk	1,2,3,6,7,8-HxCDD	5.00	1.62e+06	1.33 y	38:51	-	1.22 y
5	Unk	1,2,3,7,8,9-HxCDD	5.00	1.72e+06	1.27 y	39:17	-	1.30 y
6	Unk	1,2,3,4,6,7,8-HpCDD	5.00	1.58e+06	1.04 y	44:18	-	1.16 y
7	Unk	OCDD	10.00	2.29e+06	0.91 y	49:52	-	1.41 y
8	Unk	2,3,7,8-TCDF	1.00	9.92e+05	0.71 y	26:45	-	1.18 y
9	Unk	1,2,3,7,8-PeCDF	5.00	2.62e+06	1.51 y	31:36	-	0.879 y
10	Unk	2,3,4,7,8-PeCDF	5.00	2.54e+06	1.51 y	32:54	-	0.854 y
11	Unk	1,2,3,4,7,8-HxCDF	5.00	2.31e+06	1.27 y	37:18	-	1.00 y
12	Unk	1,2,3,6,7,8-HxCDF	5.00	2.40e+06	1.28 y	37:29	-	1.04 y
13	Unk	2,3,4,6,7,8-HxCDF	5.00	2.13e+06	1.28 y	38:26	-	0.924 y
14	Unk	1,2,3,7,8,9-HxCDF	5.00	1.94e+06	1.27 y	39:52	-	0.844 y
15	Unk	1,2,3,4,6,7,8-HpCDF	5.00	1.89e+06	1.09 y	42:23	-	1.50 y
16	Unk	1,2,3,4,7,8,9-HpCDF	5.00	1.45e+06	1.09 y	45:12	-	1.15 y
17	Unk	OCDF	10.00	2.38e+06	0.90 y	50:14	-	0.839 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.70e+07	0.80 y	27:29	-	1.21 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	3.19e+07	1.74 y	33:18	-	0.822 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.65e+07	1.28 y	38:50	-	1.02 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.73e+07	1.07 y	44:16	-	1.05 y
22	IS	13C-OCDD	200.00	3.24e+07	0.90 y	49:51	-	0.621 y
23	IS	13C-2,3,7,8-TCDF	100.00	8.43e+07	0.84 y	26:44	-	1.33 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	5.96e+07	1.67 y	31:34	-	0.940 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.60e+07	0.54 y	37:29	-	1.76 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.52e+07	0.47 y	42:22	-	0.964 y
27	IS	13C-OCDF	200.00	5.68e+07	0.94 y	50:13	-	1.09 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	3.62e+07	0.53 y	39:50	-	1.39 y
29	PSS	37Cl-2,3,7,8-TCDD	80.00	2.14e+07		27:30	-	0.569 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	80.00	2.23e+07	1.27 y	38:40	-	1.05 y
31	PSS	13C-2,3,4,7,8-PeCDF	80.00	4.52e+07	1.67 y	32:53	-	0.949 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	80.00	3.81e+07	0.53 y	37:16	-	1.03 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	80.00	1.78e+07	0.45 y	45:11	-	0.884 y
34	RS	13C-1,2,3,4-TCDD	100.00	3.88e+07	0.80 y	26:55	3.88e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	6.34e+07	0.84 y	25:40	6.34e+05	- n
36	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	2.61e+07	1.26 y	39:16	2.61e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.16 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.14 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.29 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.16 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.18 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.866 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.866 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.954 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.33 y

Analyst: 

Date: 6/30/09

Run #4 Filename 29JUN09M S: 4 Acquired: 29-JUN-09 12:17:27 Cal: AIRFAL3-6-29-09
 Client ID: ST062909M3 Analyte: AIR FAL ID: AIR CS3 (0612281)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	5.00	2.80e+06	0.74 y	27:30	-	1.08 y
2	Unk	1,2,3,7,8-PeCDD	25.00	1.00e+07	1.60 y	33:19	-	1.11 y
3	Unk	1,2,3,4,7,8-HxCDD	25.00	1.01e+07	1.32 y	38:40	-	1.31 y
4	Unk	1,2,3,6,7,8-HxCDD	25.00	8.98e+06	1.32 y	38:50	-	1.17 y
5	Unk	1,2,3,7,8,9-HxCDD	25.00	9.98e+06	1.32 y	39:18	-	1.30 y
6	Unk	1,2,3,4,6,7,8-HpCDD	25.00	8.76e+06	1.00 y	44:17	-	1.12 y
7	Unk	OCDD	50.00	1.34e+07	0.89 y	49:51	-	1.38 y
8	Unk	2,3,7,8-TCDF	5.00	5.02e+06	0.68 y	26:45	-	1.10 y
9	Unk	1,2,3,7,8-PeCDF	25.00	1.50e+07	1.55 y	31:35	-	0.893 y
10	Unk	2,3,4,7,8-PeCDF	25.00	1.40e+07	1.54 y	32:54	-	0.833 y
11	Unk	1,2,3,4,7,8-HxCDF	25.00	1.33e+07	1.29 y	37:18	-	0.975 y
12	Unk	1,2,3,6,7,8-HxCDF	25.00	1.39e+07	1.28 y	37:29	-	1.02 y
13	Unk	2,3,4,6,7,8-HxCDF	25.00	1.21e+07	1.29 y	38:25	-	0.886 y
14	Unk	1,2,3,7,8,9-HxCDF	25.00	1.12e+07	1.28 y	39:52	-	0.826 y
15	Unk	1,2,3,4,6,7,8-HpCDF	25.00	1.11e+07	1.08 y	42:22	-	1.48 y
16	Unk	1,2,3,4,7,8,9-HpCDF	25.00	8.20e+06	1.10 y	45:12	-	1.10 y
17	Unk	OCDF	50.00	1.41e+07	0.91 y	50:14	-	0.843 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	5.19e+07	0.80 y	27:29	-	1.20 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	3.61e+07	1.71 y	33:17	-	0.835 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	3.07e+07	1.27 y	38:50	-	1.01 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	3.13e+07	1.06 y	44:15	-	1.03 y
22	IS	13C-OCDD	200.00	3.89e+07	0.92 y	49:50	-	0.642 y
23	IS	13C-2,3,7,8-TCDF	100.00	9.13e+07	0.83 y	26:44	-	1.31 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	6.72e+07	1.66 y	31:33	-	0.967 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	5.45e+07	0.54 y	37:28	-	1.80 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.99e+07	0.46 y	42:22	-	0.988 y
27	IS	13C-OCDF	200.00	6.70e+07	0.94 y	50:12	-	1.11 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	4.13e+07	0.54 y	39:50	-	1.37 y
29	PSS	37Cl-2,3,7,8-TCDD	100.00	2.83e+07		27:30	-	0.546 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	100.00	3.16e+07	1.28 y	38:39	-	1.03 y
31	PSS	13C-2,3,4,7,8-PeCDF	100.00	6.29e+07	1.66 y	32:52	-	0.936 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	100.00	5.29e+07	0.54 y	37:16	-	0.970 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.45e+07	0.47 y	45:10	-	0.818 y
34	RS	13C-1,2,3,4-TCDD	100.00	4.32e+07	0.81 y	26:55	4.32e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	6.95e+07	0.84 y	25:39	6.95e+05	- n
36	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	3.03e+07	1.27 y	39:16	3.03e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.08 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.11 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.26 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.12 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.10 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.863 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.863 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.927 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.29 y

Analyst: 

Date: 6/30/09

Run #5 Filename 29JUN09M
Client ID: ST062909M4

S: 5 Acquired: 29-JUN-09 13:12:53 Cal: AIRFAL3-6-29-09
Analyte: AIR FAL ID: AIR CS4 (090121K)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	50.00	3.06e+07	0.76 y	27:31	-	1.08 y
2	Unk	1,2,3,7,8-PeCDD	250.00	1.10e+08	1.60 y	33:20	-	1.13 y
3	Unk	1,2,3,4,7,8-HxCDD	250.00	1.12e+08	1.33 y	38:41	-	1.35 y
4	Unk	1,2,3,6,7,8-HxCDD	250.00	9.99e+07	1.32 y	38:51	-	1.21 y
5	Unk	1,2,3,7,8,9-HxCDD	250.00	1.09e+08	1.31 y	39:18	-	1.32 y
6	Unk	1,2,3,4,6,7,8-HpCDD	250.00	9.39e+07	1.02 y	44:17	-	1.11 y
7	Unk	OCDD	500.00	1.48e+08	0.88 y	49:52	-	1.42 y
8	Unk	2,3,7,8-TCDF	50.00	5.15e+07	0.69 y	26:45	-	1.05 y
9	Unk	1,2,3,7,8-PeCDF	250.00	1.65e+08	1.55 y	31:35	-	0.891 y
10	Unk	2,3,4,7,8-PeCDF	250.00	1.56e+08	1.55 y	32:54	-	0.846 y
11	Unk	1,2,3,4,7,8-HxCDF	250.00	1.49e+08	1.28 y	37:17	-	1.02 y
12	Unk	1,2,3,6,7,8-HxCDF	250.00	1.51e+08	1.29 y	37:30	-	1.04 y
13	Unk	2,3,4,6,7,8-HxCDF	250.00	1.37e+08	1.28 y	38:26	-	0.942 y
14	Unk	1,2,3,7,8,9-HxCDF	250.00	1.29e+08	1.27 y	39:52	-	0.883 y
15	Unk	1,2,3,4,6,7,8-HpCDF	250.00	1.24e+08	1.09 y	42:23	-	1.51 y
16	Unk	1,2,3,4,7,8,9-HpCDF	250.00	8.98e+07	1.10 y	45:12	-	1.09 y
17	Unk	OCDF	500.00	1.62e+08	0.90 y	50:14	-	0.867 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	5.68e+07	0.80 y	27:30	-	1.23 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	3.89e+07	1.70 y	33:18	-	0.844 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	3.30e+07	1.28 y	38:50	-	0.987 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	3.37e+07	1.06 y	44:16	-	1.01 y
22	IS	13C-OCDD	200.00	4.19e+07	0.90 y	49:51	-	0.627 y
23	IS	13C-2,3,7,8-TCDF	100.00	9.79e+07	0.83 y	26:44	-	1.33 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	7.39e+07	1.67 y	31:34	-	1.00 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	5.83e+07	0.54 y	37:28	-	1.75 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.29e+07	0.46 y	42:22	-	0.985 y
27	IS	13C-OCDF	200.00	7.49e+07	0.94 y	50:13	-	1.12 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	4.69e+07	0.54 y	39:50	-	1.40 y
29	PSS	37Cl-2,3,7,8-TCDD	120.00	3.77e+07		27:31	-	0.553 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	120.00	4.24e+07	1.27 y	38:40	-	1.07 y
31	PSS	13C-2,3,4,7,8-PeCDF	120.00	8.26e+07	1.64 y	32:52	-	0.932 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	120.00	6.87e+07	0.54 y	37:16	-	0.981 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	120.00	3.19e+07	0.46 y	45:11	-	0.807 y
34	RS	13C-1,2,3,4-TCDD	100.00	4.60e+07	0.82 y	26:55	4.60e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	7.37e+07	0.83 y	25:40	7.37e+05	- n
36	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	3.34e+07	1.27 y	39:16	3.34e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.08 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.13 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.29 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.11 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.05 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.868 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.868 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.971 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.30 y

Analyst: 

Date: 6/30/09

Run #6 Filename 29JUN09M S: 6 Acquired: 29-JUN-09 14:08:16 Cal: AIRFAL3-6-29-09
 Client ID: ST062909M5 Analyte: AIRFAL3-6-29-09 FAL ID: AIR CS5 (090121L)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	100.00	6.86e+07	0.74 y	27:30	-	1.08 y
2	Unk	1,2,3,7,8-PeCDD	500.00	2.62e+08	1.60 y	33:19	-	1.13 y
3	Unk	1,2,3,4,7,8-HxCDD	500.00	2.68e+08	1.34 y	38:41	-	1.34 y
4	Unk	1,2,3,6,7,8-HxCDD	500.00	2.41e+08	1.33 y	38:51	-	1.21 y
5	Unk	1,2,3,7,8,9-HxCDD	500.00	2.63e+08	1.32 y	39:17	-	1.32 y
6	Unk	1,2,3,4,6,7,8-HpCDD	500.00	2.27e+08	1.02 y	44:17	-	1.11 y
7	Unk	OCDD	1000.00	3.68e+08	0.89 y	49:52	-	1.40 y
8	Unk	2,3,7,8-TCDF	100.00	1.18e+08	0.69 y	26:45	-	1.06 y
9	Unk	1,2,3,7,8-PeCDF	500.00	3.87e+08	1.56 y	31:35	-	0.894 y
10	Unk	2,3,4,7,8-PeCDF	500.00	3.68e+08	1.55 y	32:54	-	0.850 y
11	Unk	1,2,3,4,7,8-HxCDF	500.00	3.53e+08	1.29 y	37:17	-	1.02 y
12	Unk	1,2,3,6,7,8-HxCDF	500.00	3.61e+08	1.29 y	37:30	-	1.04 y
13	Unk	2,3,4,6,7,8-HxCDF	500.00	3.31e+08	1.29 y	38:25	-	0.950 y
14	Unk	1,2,3,7,8,9-HxCDF	500.00	3.18e+08	1.29 y	39:51	-	0.914 y
15	Unk	1,2,3,4,6,7,8-HpCDF	500.00	3.15e+08	1.07 y	42:23	-	1.52 y
16	Unk	1,2,3,4,7,8,9-HpCDF	500.00	2.34e+08	1.08 y	45:11	-	1.13 y
17	Unk	OCDF	1000.00	3.99e+08	0.90 y	50:14	-	0.869 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	6.37e+07	0.82 y	27:29	-	1.22 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	4.64e+07	1.71 y	33:18	-	0.891 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	4.00e+07	1.26 y	38:49	-	0.988 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	4.09e+07	1.06 y	44:16	-	1.01 y
22	IS	13C-OCDD	200.00	5.26e+07	0.89 y	49:51	-	0.650 y
23	IS	13C-2,3,7,8-TCDF	100.00	1.11e+08	0.83 y	26:44	-	1.36 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	8.66e+07	1.66 y	31:34	-	1.06 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	6.96e+07	0.54 y	37:28	-	1.72 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	4.15e+07	0.46 y	42:22	-	1.02 y
27	IS	13C-OCDF	200.00	9.19e+07	0.93 y	50:14	-	1.13 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	5.78e+07	0.54 y	39:50	-	1.43 y
29	PSS	37Cl-2,3,7,8-TCDD	140.00	4.90e+07		27:30	-	0.550 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	140.00	5.93e+07	1.27 y	38:39	-	1.06 y
31	PSS	13C-2,3,4,7,8-PeCDF	140.00	1.13e+08	1.64 y	32:52	-	0.936 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	140.00	9.49e+07	0.54 y	37:16	-	0.974 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	140.00	4.72e+07	0.46 y	45:11	-	0.813 y
34	RS	13C-1,2,3,4-TCDD	100.00	5.21e+07	0.81 y	26:54	5.21e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	8.19e+07	0.84 y	25:39	8.19e+05	- n
36	RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	4.05e+07	1.26 y	39:16	4.05e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.08 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.13 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.29 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.11 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.06 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.872 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.872 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.979 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.32 y

Analyst: 

Date: 6/30/09

USEPA - ITD

AIR FORM 3A

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 6/29/09

Instrument ID: FAL3


GC Column ID: DB5

CS0 Data Filename: 29JUN09M S1 CS3 Data Filename: 29JUN09M S4

CS1 Data Filename: 29JUN09M S2 CS4 Data Filename: 29JUN09M S5

CS2 Data Filename: 29JUN09M S3 CS5 Data Filename: 29JUN09M S6

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
NATIVE ANALYTES								
2,3,7,8-TCDD	1.26	1.20	1.16	1.08	1.08	1.08	1.14	6.74
1,2,3,7,8-PeCDD	1.17	1.17	1.14	1.11	1.13	1.13	1.14	2.20
1,2,3,4,7,8-HxCDD	1.49	1.41	1.34	1.31	1.35	1.34	1.37	4.82
1,2,3,6,7,8-HxCDD	1.32	1.31	1.22	1.17	1.21	1.21	1.24	5.03
1,2,3,7,8,9-HxCDD	1.44	1.44	1.30	1.30	1.32	1.32	1.35	4.98
1,2,3,4,6,7,8-HpCDD	1.21	1.21	1.16	1.12	1.11	1.11	1.15	4.18
OCDD	1.49	1.46	1.41	1.38	1.42	1.40	1.43	3.00
2,3,7,8-TCDF	1.24	1.21	1.18	1.10	1.05	1.06	1.14	7.13
1,2,3,7,8-PeCDF	0.95	0.92	0.88	0.89	0.89	0.89	0.90	2.89
2,3,4,7,8-PeCDF	0.88	0.88	0.85	0.83	0.85	0.85	0.86	2.16
1,2,3,4,7,8-HxCDF	1.06	1.05	1.00	0.97	1.02	1.02	1.02	3.04
1,2,3,6,7,8-HxCDF	1.05	1.06	1.04	1.02	1.04	1.04	1.04	1.37
2,3,4,6,7,8-HxCDF	0.97	0.98	0.92	0.89	0.94	0.95	0.94	3.51
1,2,3,7,8,9-HxCDF	0.91	0.89	0.84	0.83	0.88	0.91	0.88	4.04
1,2,3,4,6,7,8-HpCDF	1.49	1.54	1.50	1.48	1.51	1.52	1.51	1.54
1,2,3,4,7,8,9-HpCDF	1.14	1.08	1.15	1.10	1.09	1.13	1.11	2.66
OCDF	0.91	0.88	0.84	0.84	0.87	0.87	0.87	2.97

Analyst: Date: 6/30/09

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 6/29/09

Instrument ID: FAL3


GC Column ID: DB5

CS0 Data Filename: 29JUN09M S1 CS4 Data Filename: 29JUN09M S4

CS1 Data Filename: 29JUN09M S2 CS4 Data Filename: 29JUN09M S5

CS2 Data Filename: 29JUN09M S3 CS5 Data Filename: 29JUN09M S6

	RELATIVE RESPONSE (RR)						MEAN	Cv
	CS1	CS2	CS3	CS4	CS5	CS6	RR	(%RSD)
INTERNAL STANDARDS								
13C-2,3,7,8-TCDD	1.21	1.19	1.21	1.20	1.23	1.22	1.21	1.31
13C-1,2,3,7,8-PeCDD	0.81	0.79	0.82	0.84	0.84	0.89	0.83	4.13
13C-1,2,3,6,7,8-HxCDD	0.98	0.98	1.02	1.01	0.99	0.99	0.99	1.64
13C-1,2,3,4,6,7,8-HpCDD	1.04	1.03	1.05	1.03	1.01	1.01	1.03	1.61
13C-OCDD	0.64	0.64	0.62	0.64	0.63	0.65	0.64	1.76
13C-2,3,7,8-TCDF	1.32	1.33	1.33	1.31	1.33	1.36	1.33	1.09
13C-1,2,3,7,8-PeCDF	0.90	0.91	0.94	0.97	1.00	1.06	0.96	6.09
13C-1,2,3,6,7,8-HxCDF	1.75	1.73	1.76	1.80	1.75	1.72	1.75	1.62
13C-1,2,3,4,6,7,8-HpCDF	1.03	1.02	0.96	0.99	0.98	1.02	1.00	2.67
13C-OCDF	1.10	1.12	1.09	1.11	1.12	1.13	1.11	1.55
CLEANUP STANDARD								
13C-1,2,3,7,8,9-HxCDF	1.41	1.42	1.39	1.37	1.40	1.43	1.40	1.65
PRE-SPIKE STANDARDS								
37Cl-2,3,7,8-TCDD	0.54	0.58	0.57	0.55	0.55	0.55	0.56	2.35
13C-1,2,3,4,7,8-HxCDD	1.03	1.07	1.05	1.03	1.07	1.06	1.05	1.71
13C-2,3,4,7,8-PeCDF	0.89	0.94	0.95	0.94	0.93	0.94	0.93	2.22
13C-1,2,3,4,7,8-HxCDF	0.99	1.02	1.03	0.97	0.98	0.97	1.00	2.65
13C-1,2,3,4,7,8,9-HpCDF	0.79	0.84	0.88	0.82	0.81	0.81	0.82	3.99

Analyst: Date: 6/30/09

PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 6/29/09

Instrument ID: FAL3


GC Column ID: DB5

CS0 Data Filename: 29JUN09M S1 CS3 Data Filename: 29JUN09M S4

CS1 Data Filename: 29JUN09M S2 CS4 Data Filename: 29JUN09M S5

CS2 Data Filename: 29JUN09M S3 CS5 Data Filename: 29JUN09M S6

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
2,3,7,8-TCDD	M/M+2	0.67	0.75	0.73	0.74	0.76	0.74	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.65	1.62	1.65	1.60	1.60	1.60	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.30	1.29	1.33	1.32	1.33	1.34	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.33	1.29	1.33	1.32	1.32	1.33	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.32	1.30	1.27	1.32	1.31	1.32	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.99	1.01	1.04	1.00	1.02	1.02	0.88-1.20
OCDD	M+2/M+4	0.88	0.88	0.91	0.89	0.88	0.89	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.67	0.69	0.71	0.68	0.69	0.69	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.50	1.50	1.51	1.55	1.55	1.56	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.48	1.52	1.51	1.54	1.55	1.55	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.31	1.27	1.29	1.28	1.29	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.27	1.28	1.28	1.29	1.29	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.26	1.28	1.29	1.28	1.29	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.32	1.27	1.28	1.27	1.29	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.06	1.08	1.09	1.08	1.09	1.07	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.09	1.11	1.09	1.10	1.10	1.08	0.88-1.20
OCDF	M+2/M+4	0.90	0.87	0.90	0.91	0.90	0.90	0.76-1.02

Analyst: Date: 6/30/09

AIR FORM 3D

PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 6/29/09

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 29JUN09M S1 CS3 Data Filename: 29JUN09M S4

CS1 Data Filename: 29JUN09M S2 CS4 Data Filename: 29JUN09M S5

CS2 Data Filename: 29JUN09M S3 CS5 Data Filename: 29JUN09M S6

	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
INTERNAL STANDARDS								
13C-2,3,7,8-TCDD	M/M+2	0.79	0.79	0.80	0.80	0.80	0.82	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.72	1.72	1.74	1.71	1.70	1.71	1.32-1.78
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.26	1.28	1.27	1.28	1.26	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	1.07	1.07	1.06	1.06	1.06	0.88-1.20
13C-OCDD	M+2/M+4	0.90	0.91	0.90	0.92	0.90	0.89	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.84	0.84	0.84	0.83	0.83	0.83	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.68	1.65	1.67	1.66	1.67	1.66	1.32-1.78
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.53	0.53	0.54	0.54	0.54	0.54	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.46	0.46	0.47	0.46	0.46	0.46	0.37-0.51
13C-OCDF	M+2/M+4	0.95	0.94	0.94	0.94	0.94	0.93	0.76-1.02
ANUP STANDARD								
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.53	0.53	0.54	0.54	0.54	
-SPIKE STANDARDS								
37Cl-2,3,7,8-TCDD	NA	NA	NA	NA	NA	NA	NA	NA
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.28	1.27	1.28	1.27	1.27	1.05-1.43
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.69	1.67	1.67	1.66	1.64	1.64	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.55	0.54	0.53	0.54	0.54	0.54	0.43-0.59
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.47	0.46	0.45	0.47	0.46	0.46	0.37-0.51

Analyst: 

Date: 6/30/09

AIR FORM 4A
 PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 6/29/09


Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 29JUN09M Sam:4

Analysis Date: 29-JUN-09 12:17:27

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.74	0.65-0.89	y	4.72	3.75 - 6.25
1,2,3,7,8-PeCDD	M+2/M+4	1.60	1.32-1.78	y	24.3	18.7 - 31.2
1,2,3,4,7,8-HxCDD	M+2/M+4	1.32	1.05-1.43	y	23.8	18.7 - 31.2
1,2,3,6,7,8-HxCDD	M+2/M+4	1.32	1.05-1.43	y	23.6	18.7 - 31.2
1,2,3,7,8,9-HxCDD	M+2/M+4	1.32	1.05-1.43	y	24.1	18.7 - 31.2
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.00	0.88-1.20	y	24.2	18.7 - 31.2
OCDD	M+2/M+4	0.89	0.76-1.02	y	48.3	37.5 - 62.5
2,3,7,8-TCDF	M/M+2	0.68	0.65-0.89	y	4.82	3.75 - 6.25
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	24.7	18.7 - 31.2
2,3,4,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	24.3	18.7 - 31.2
1,2,3,4,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	23.9	18.7 - 31.2
1,2,3,6,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	24.5	18.7 - 31.2
2,3,4,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	23.5	18.7 - 31.2
1,2,3,7,8,9-HxCDF	M+2/M+4	1.28	1.05-1.43	y	23.5	18.7 - 31.2
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88-1.20	y	24.5	18.7 - 31.2
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.10	0.88-1.20	y	24.6	18.7 - 31.2
OCDF	M+2/M+4	0.91	0.76-1.02	y	48.6	35.0 - 65.0

Analyst: Date: 6/30/09

AIR FORM 4B
 PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 6/29/09


Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 29JUN09M Sam:4

Analysis Date: 29-JUN-09 12:17:27

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-2,3,7,8-TCDD	M/M+2	0.80	0.65-0.89	y	99.2	75.0 - 125
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.71	1.32-1.78	y	100	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	102	75.0 - 125
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	100	70.0 - 130
13C-OCDD	M+2/M+4	0.92	0.76-1.02	y	201	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.83	0.65-0.89	y	98.7	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	100	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	103	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.46	0.37-0.51	y	98.7	70.0 - 130
13C-OCDF	M+2/M+4	0.94	0.76-1.02	y	199	140 - 260
CLEANUP SURROGATE						
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.54	0.43-0.59	y	97.4	75.0 - 125
PRE-SPIKE SURROGATE						
37Cl-2,3,7,8-TCDD					98.1	75.0 - 125
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	97.9	75.0 - 125
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	101	75.0 - 125
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	97.5	75.0 - 125
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.47	0.37-0.51	y	99.2	75.0 - 125

Analyst: Date: 6/30/09

Air Form 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 6/29/09
RT Window Data Filename: 29JUN09M Sam:4 Analysis Date: 29-JUN-09 Time: 12:17:27
DB-5 IS Data Filename: 29JUN09M Sam:4 Analysis Date: 29-JUN-09 Time: 12:17:27
DB-225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:31	1,3,6,8-TCDF (F)	23:10
1,2,8,9-TCDD (L)	28:26	1,2,8,9-TCDF (L)	28:39
1,2,4,7,9-PeCDD (F)	30:21	1,3,4,6,8-PeCDF (F)	28:32
1,2,3,8,9-PeCDD (L)	33:54	1,2,3,8,9-PeCDF (L)	34:18
1,2,4,6,7,9-HxCDD (F)	36:13	1,2,3,4,6,8-HxCDF (F)	35:21
1,2,3,7,8,9-HxCDD (L)	39:18	1,2,3,7,8,9-HxCDF (L)	39:52
1,2,3,4,6,7,9-HpCDD (F)	42:55	1,2,3,4,6,7,8-HpCDF (F)	42:22
1,2,3,4,6,7,8-HpCDD (L)	44:17	1,2,3,4,7,8,9-HpCDF (L)	45:12

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

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

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

Analyst: 

Date: 6/30/09

Frontier Analytical Laboratory - Acquisition Log

Run Name:29JUN09M

Instrument: FAL3

GC: DB5

Experiment:PCDD

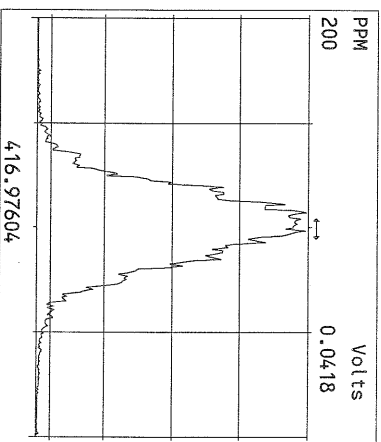
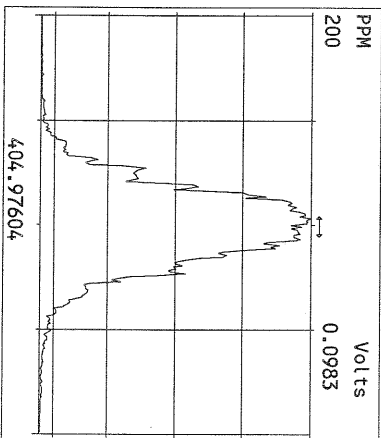
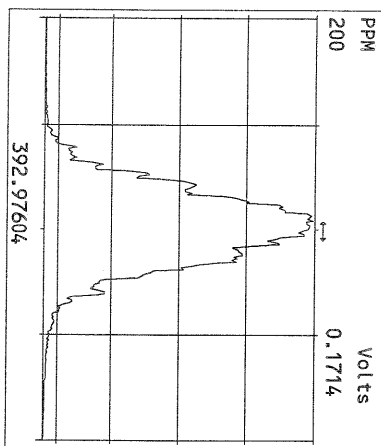
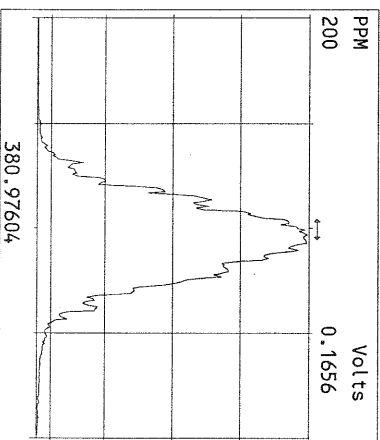
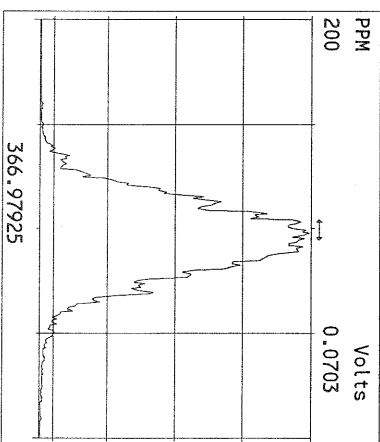
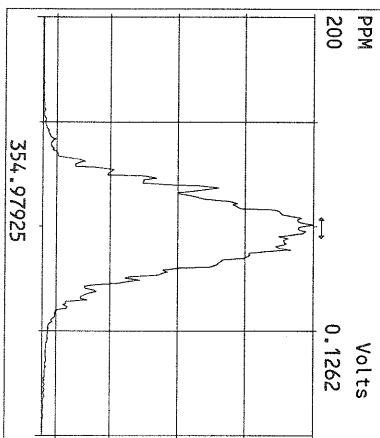
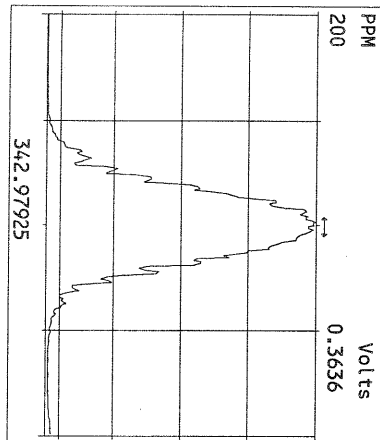
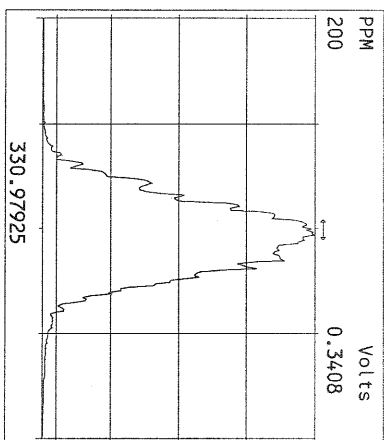
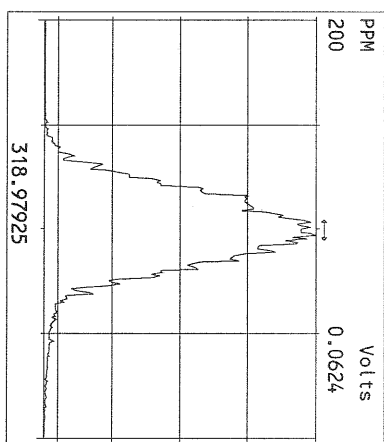
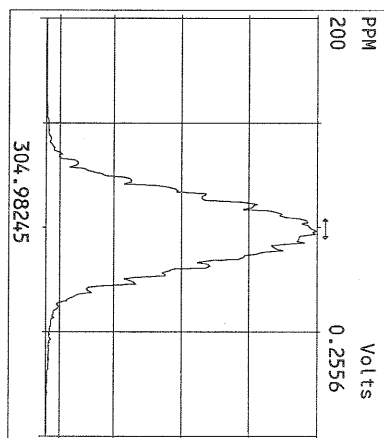
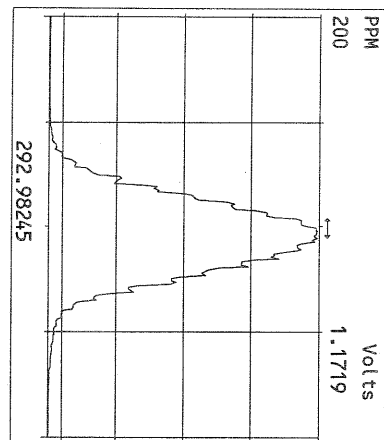
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29JUN09M	3	ST062909M2	AIR CS2 (090121H)	29-JUN-09 11:22:08	NA	NA	TC
29JUN09M	4	ST062909M3	AIR CS3 (061228I)	29-JUN-09 12:17:27	NA	NA	TC
29JUN09M	5	ST062909M4	AIR CS4 (090121K)	29-JUN-09 13:12:53	NA	NA	TC
29JUN09M	6	ST062909M5	AIR CS5 (090121L)	29-JUN-09 14:08:16	NA	NA	TC
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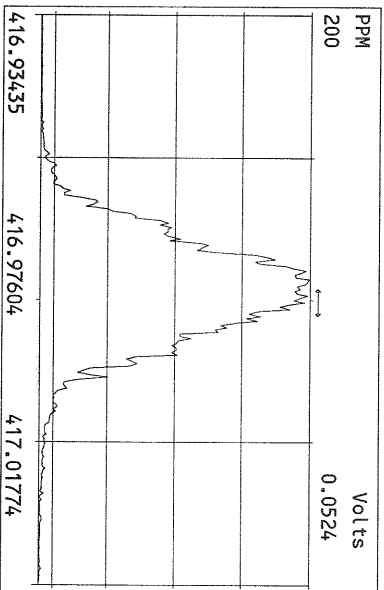
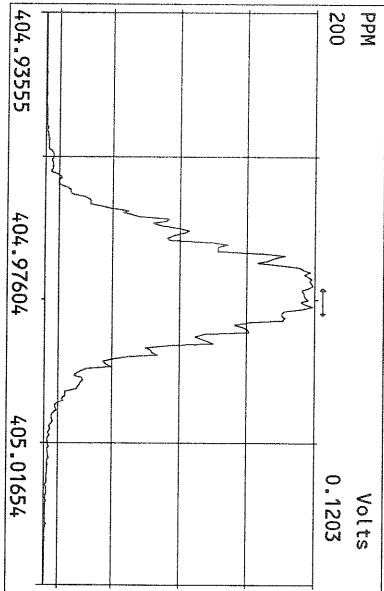
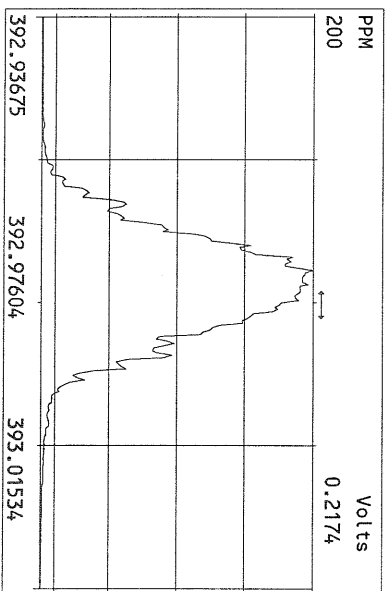
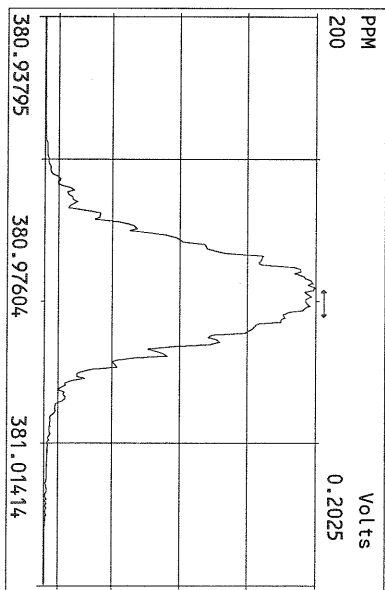
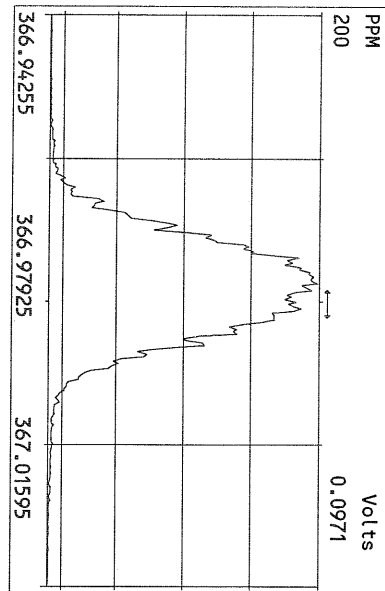
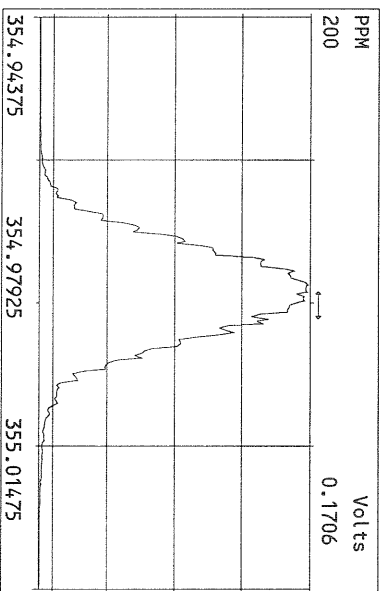
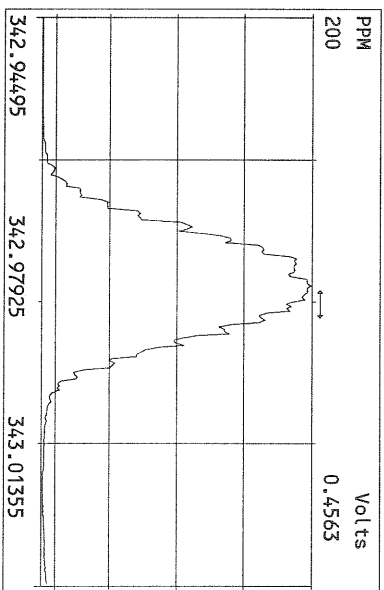
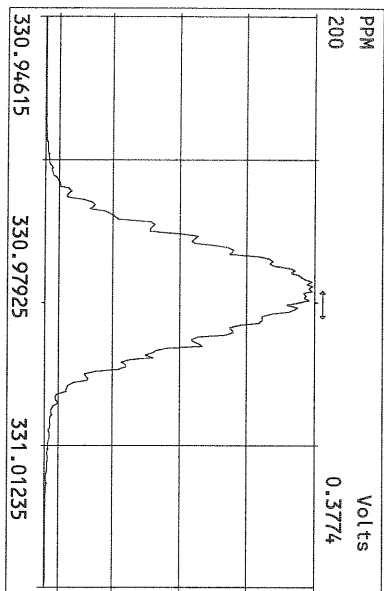


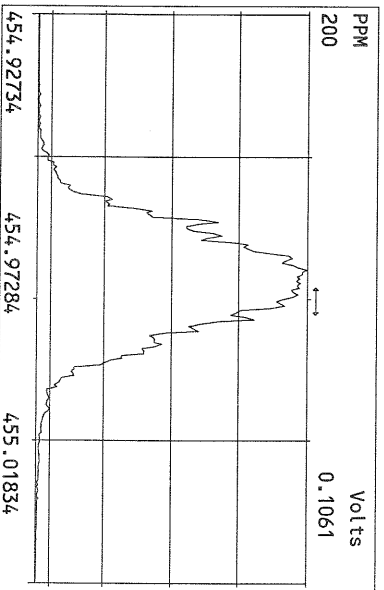
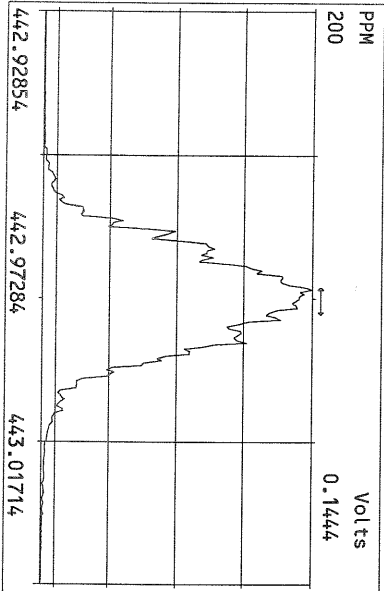
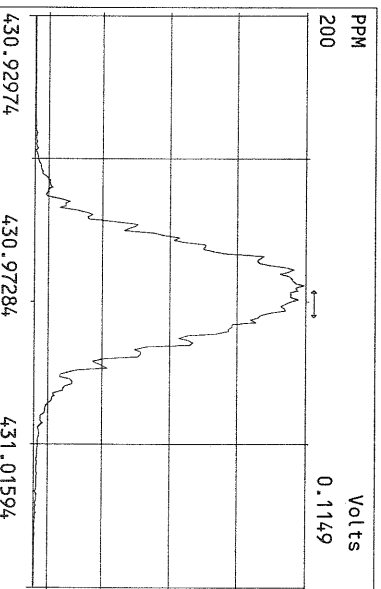
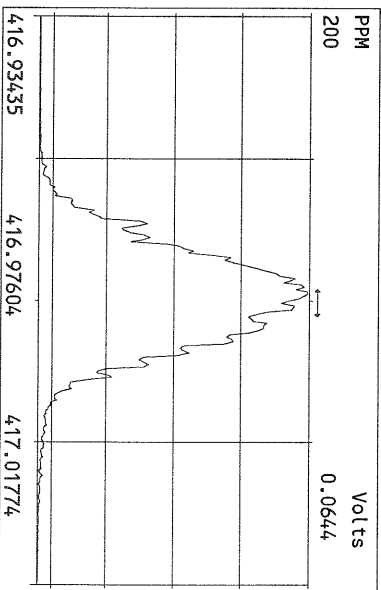
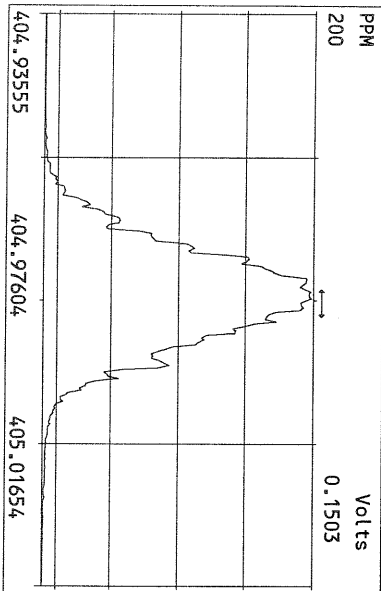
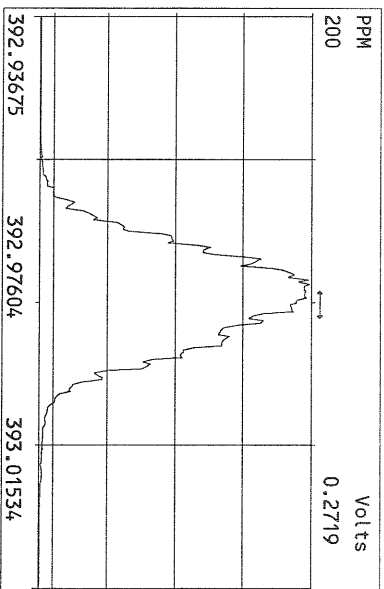
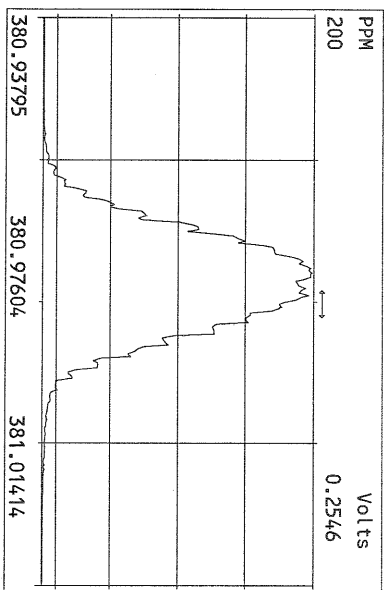
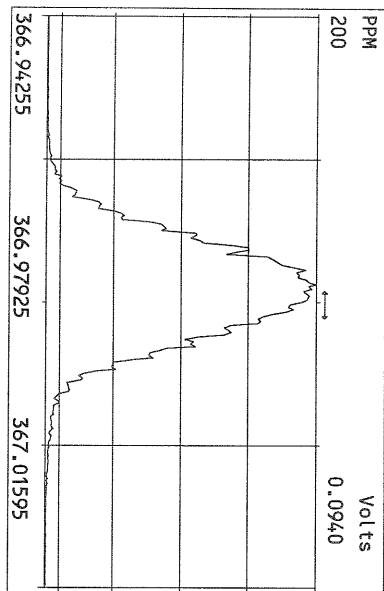
6/30/09

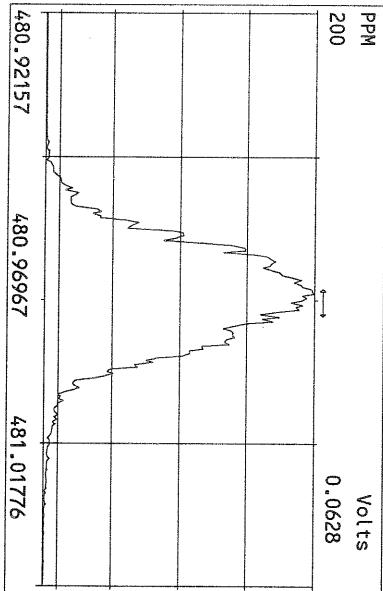
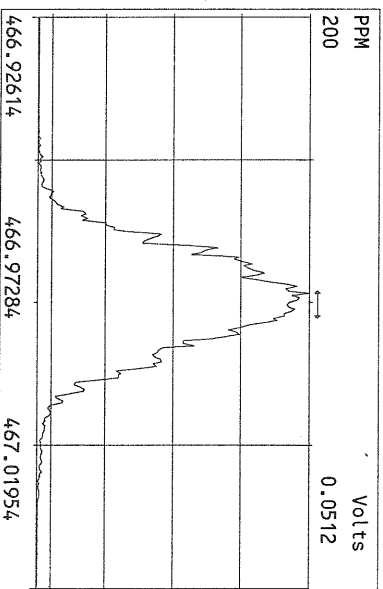
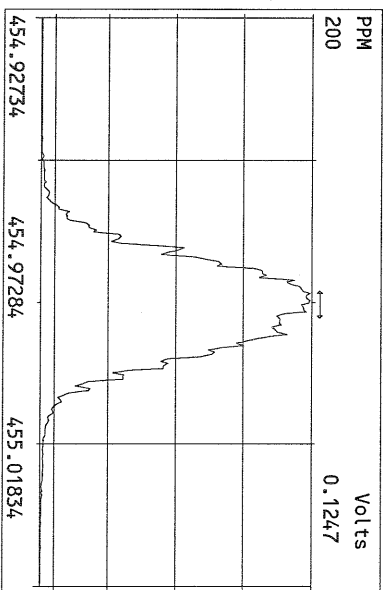
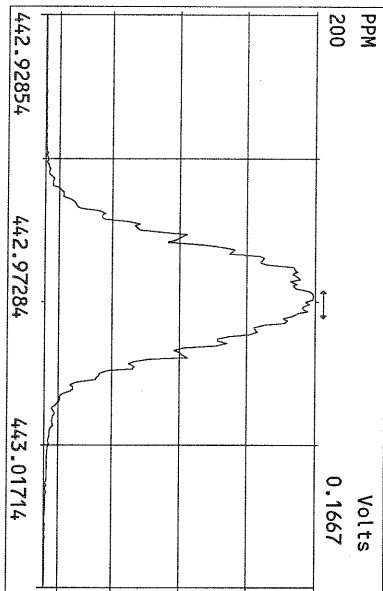
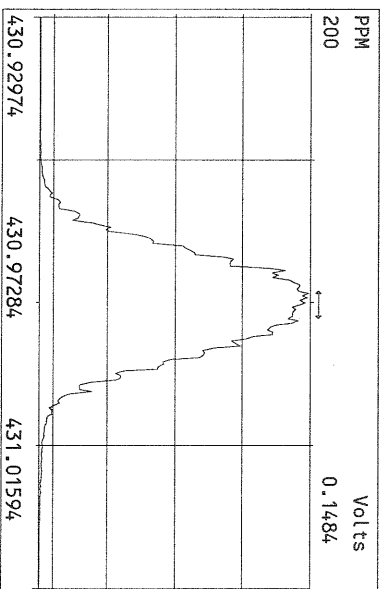
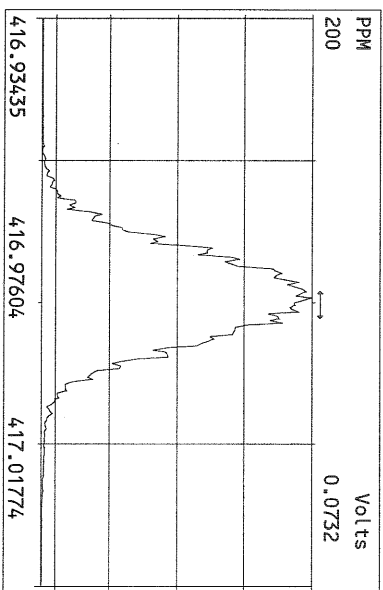
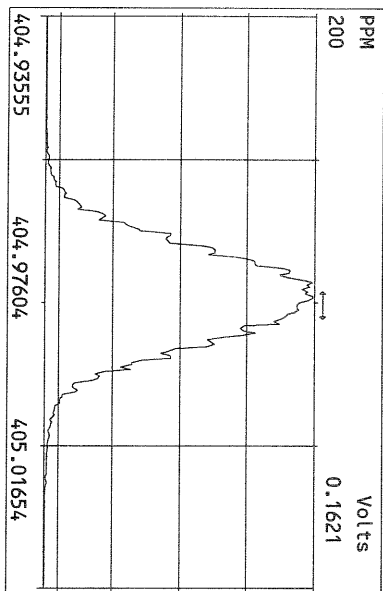
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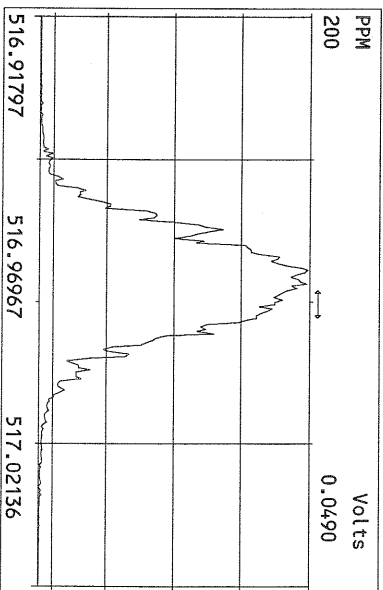
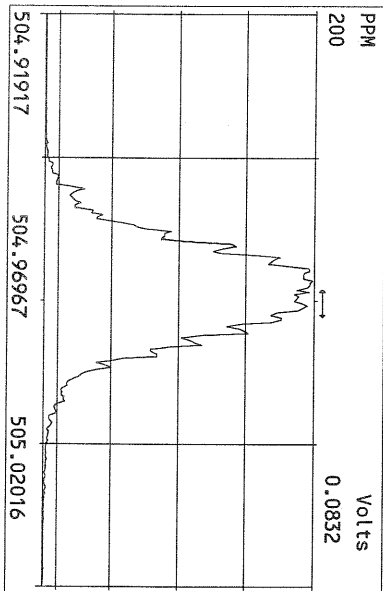
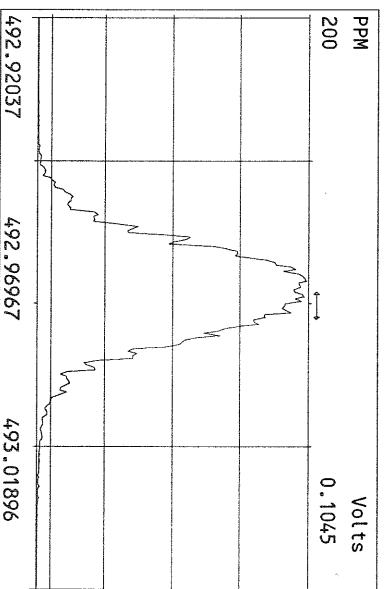
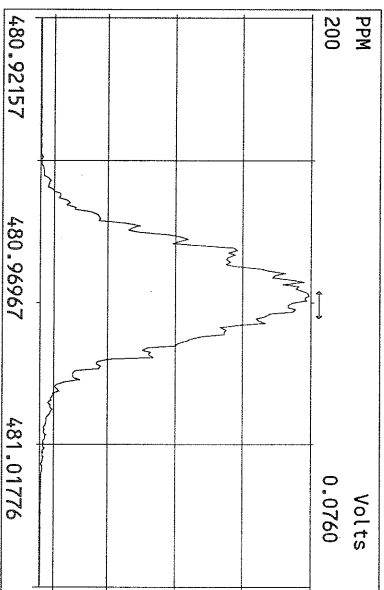
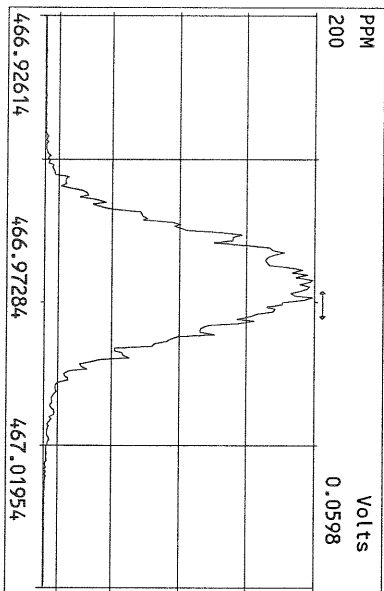
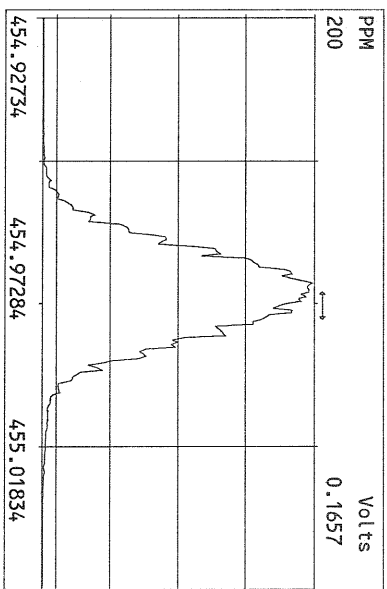
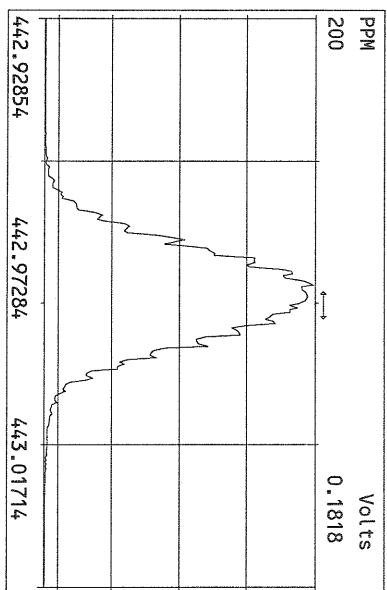
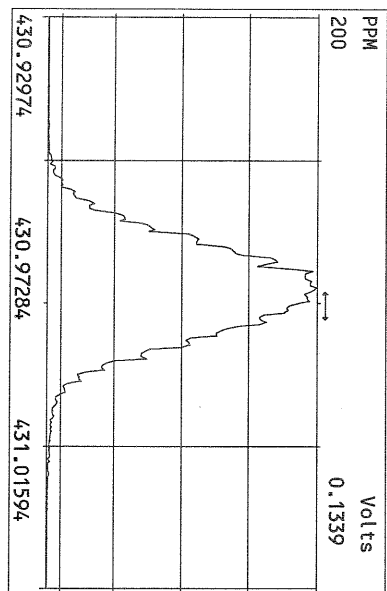
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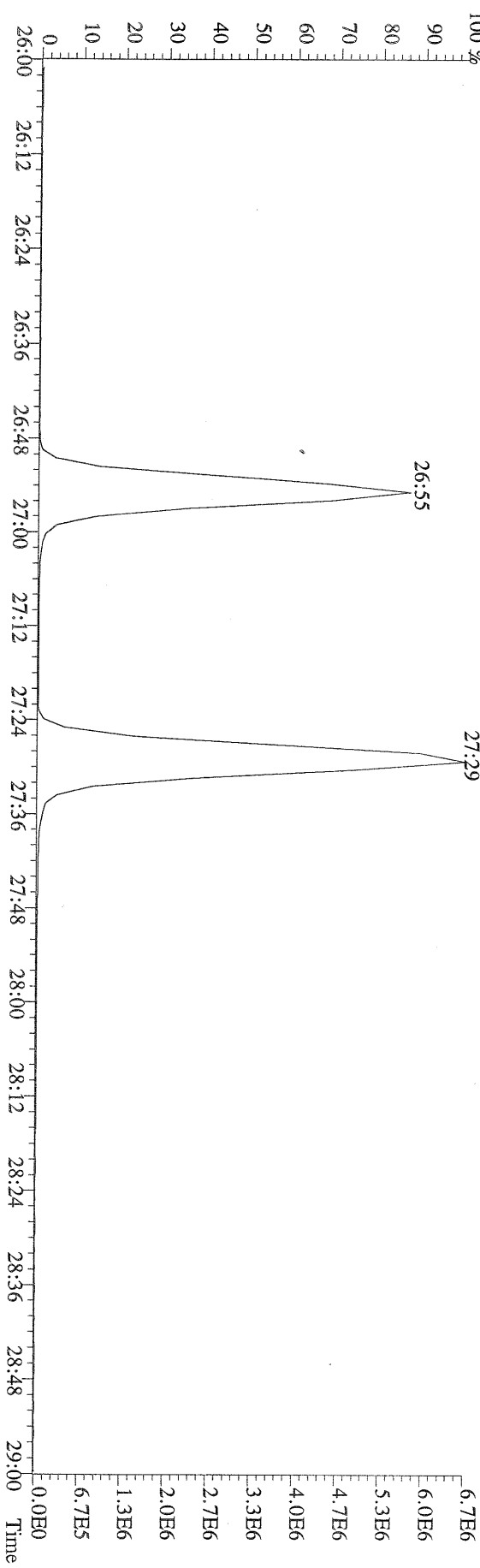
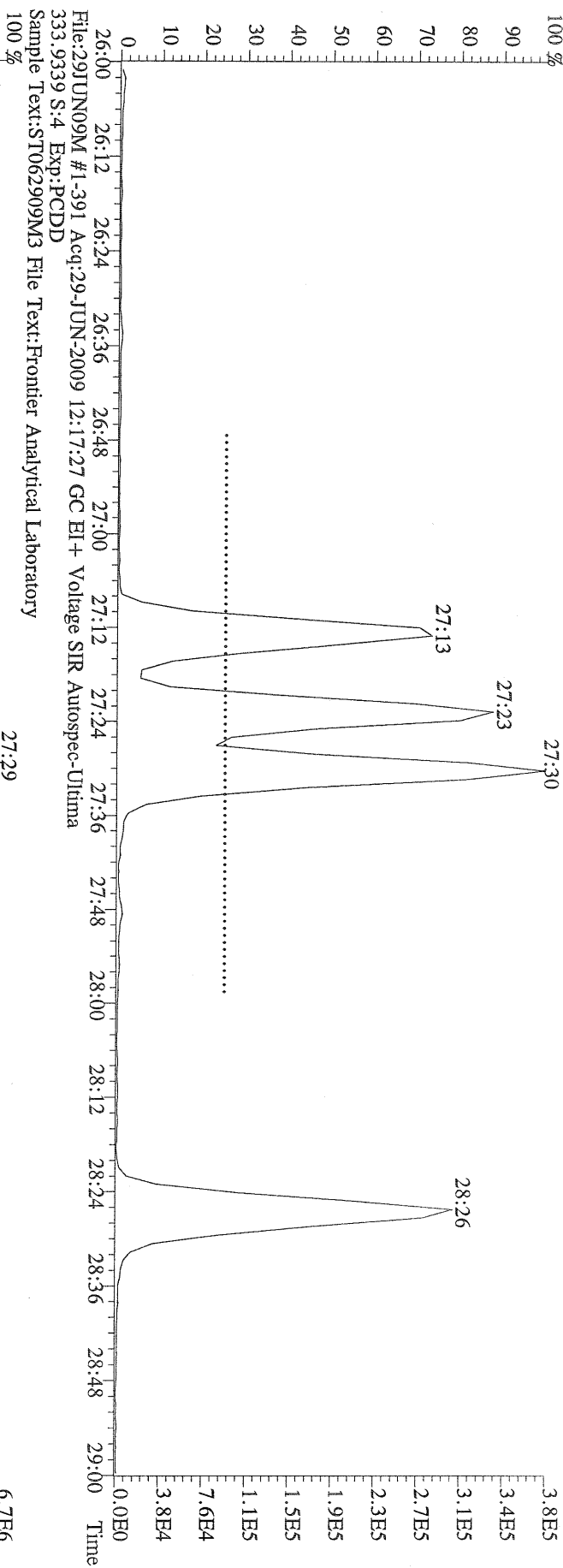




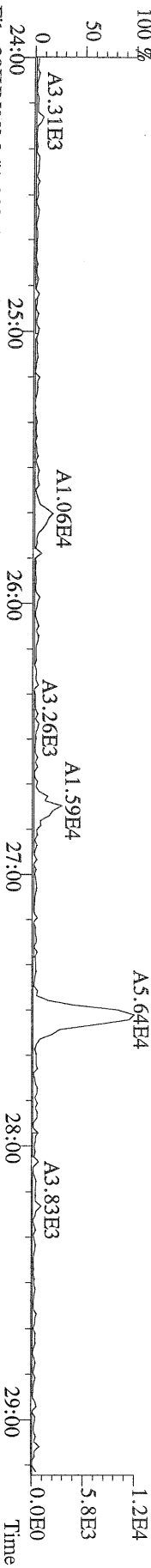




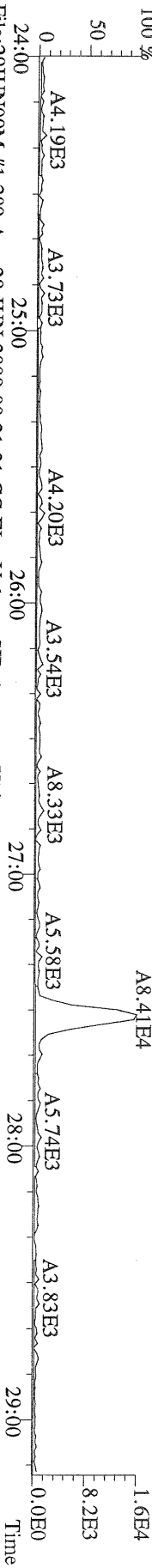
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321.8936 S:4 Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



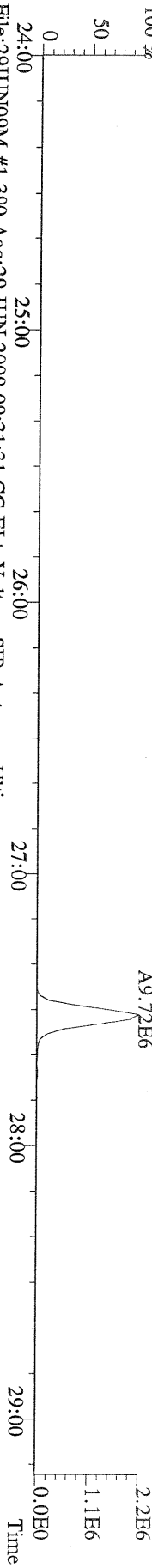
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Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory
100 %



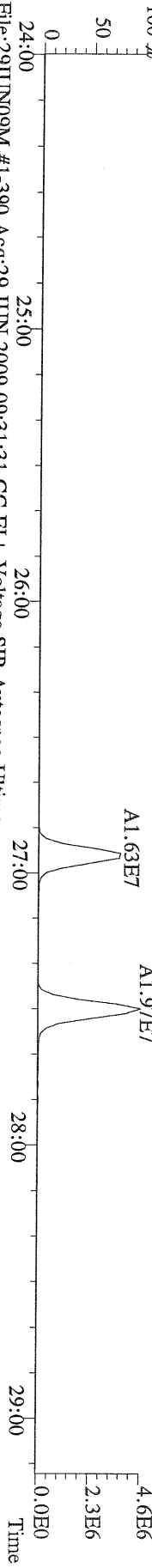
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Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory
100 %



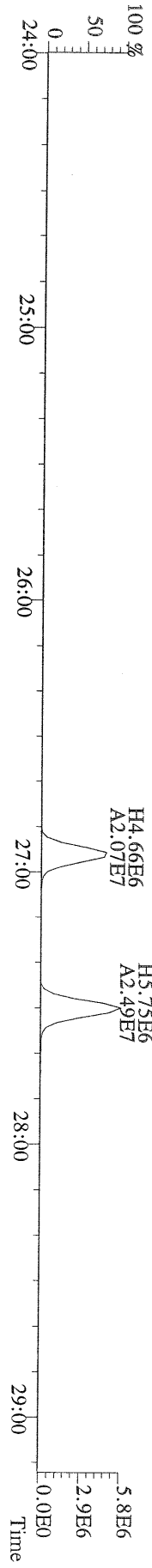
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100 %



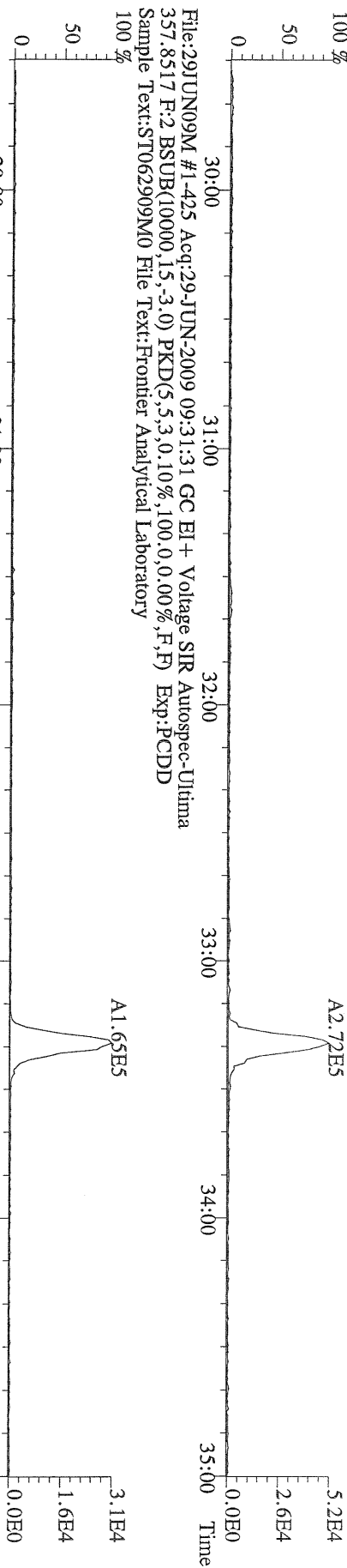
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100 %



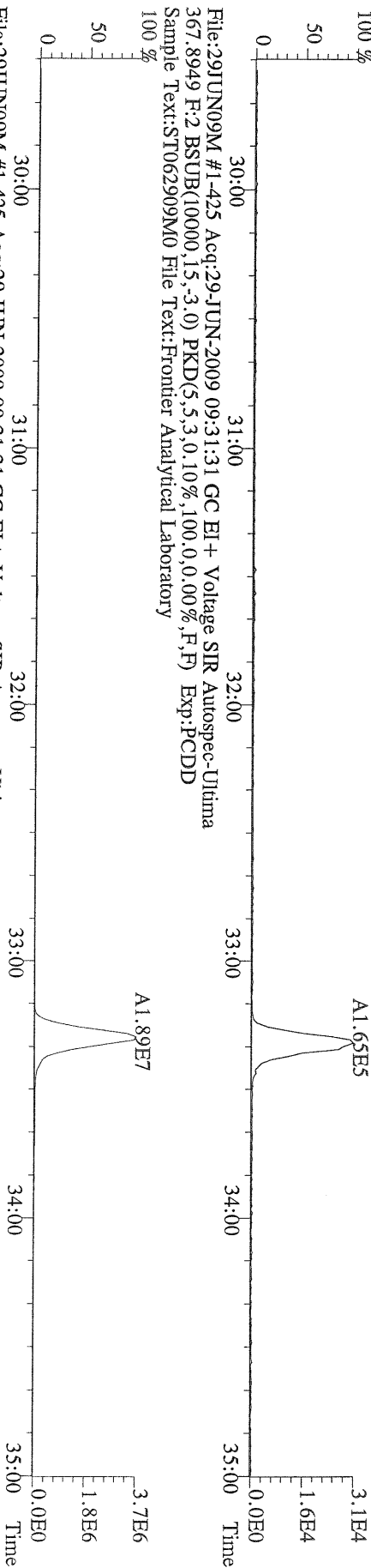
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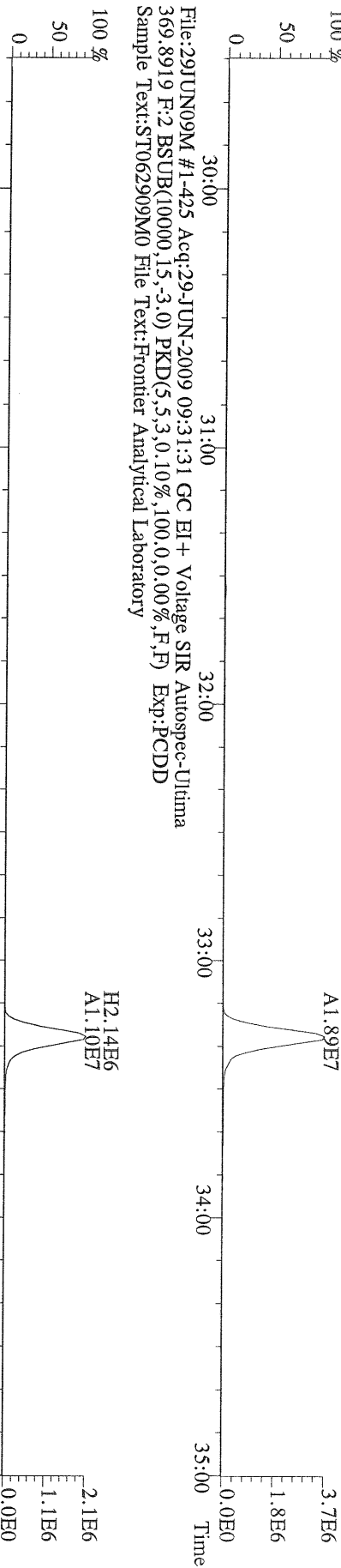
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100 %



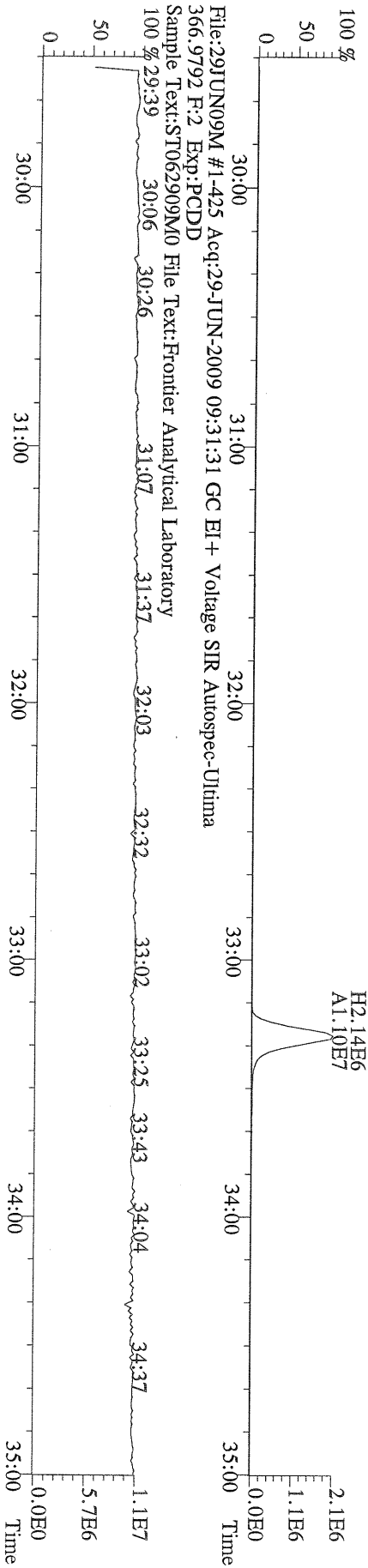
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100 %



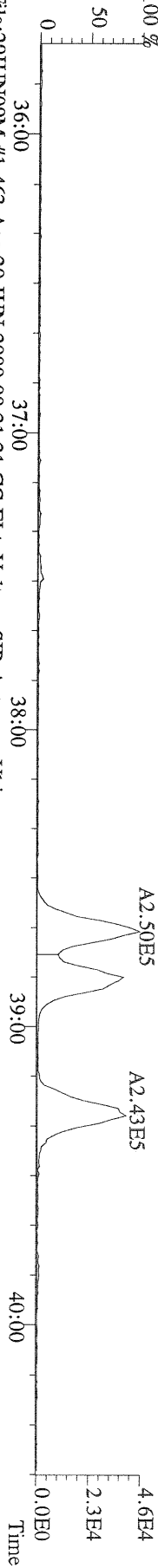
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Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



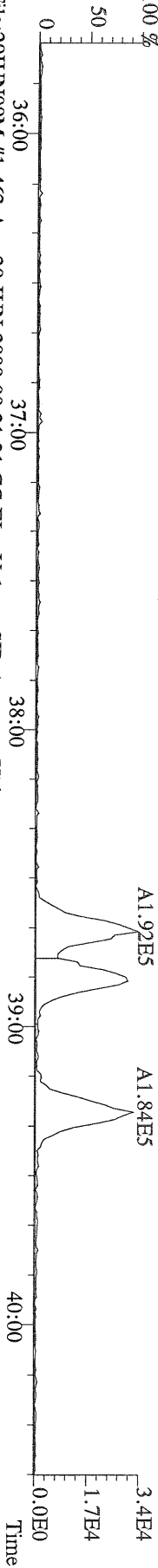
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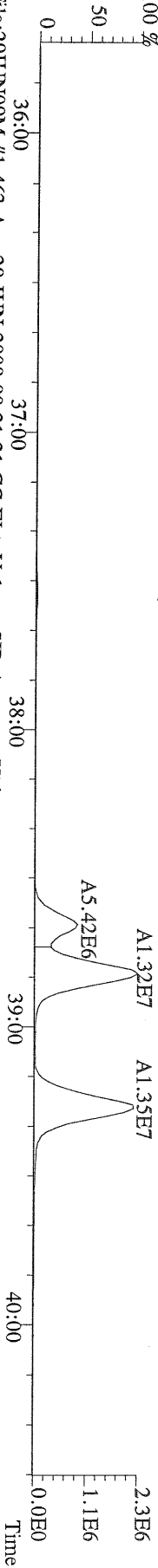
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100 %



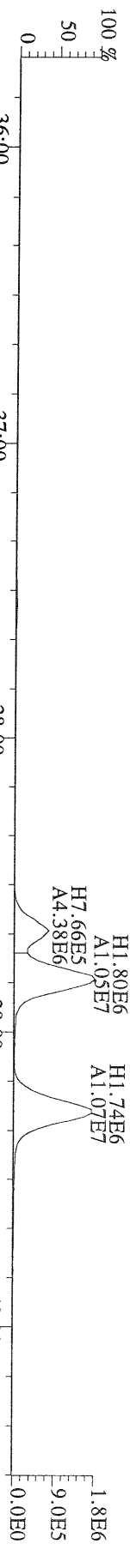
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100 %



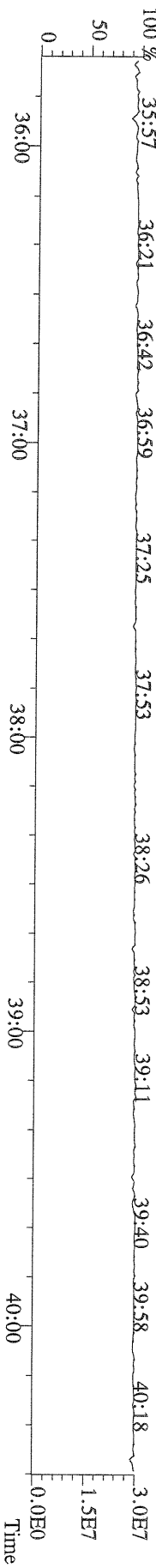
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Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory
100 %



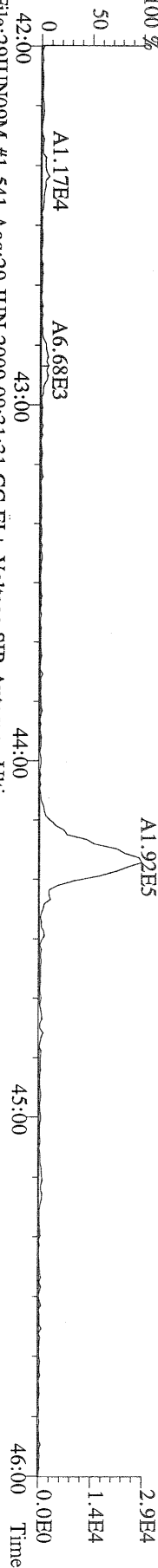
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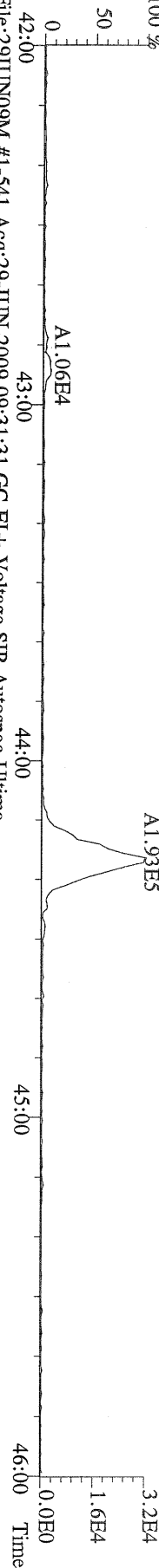
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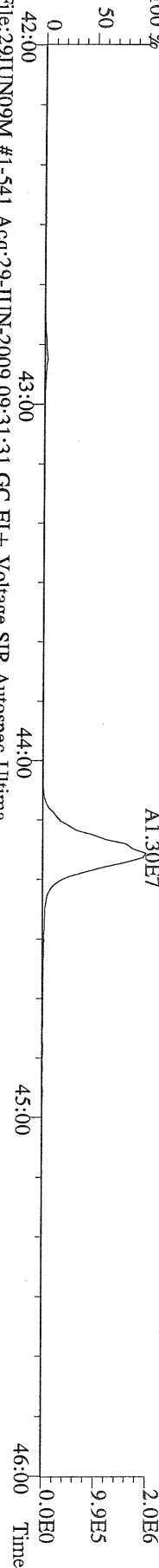
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Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



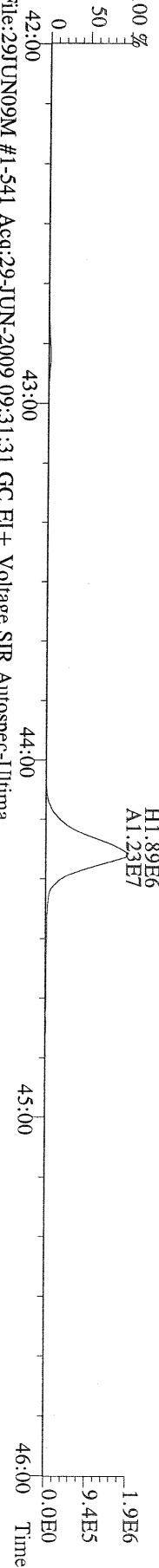
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Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



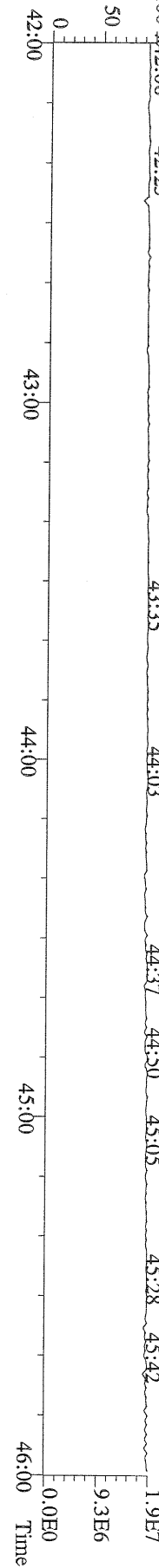
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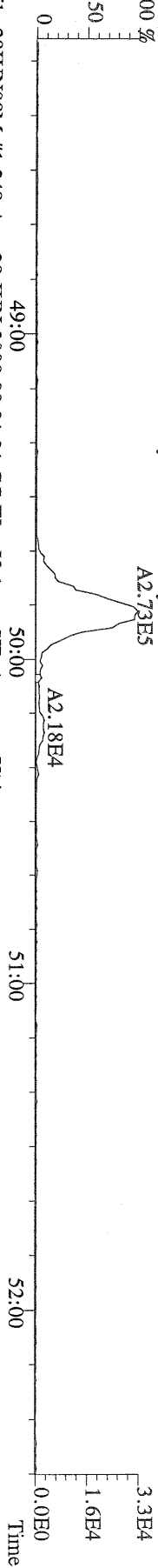
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Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



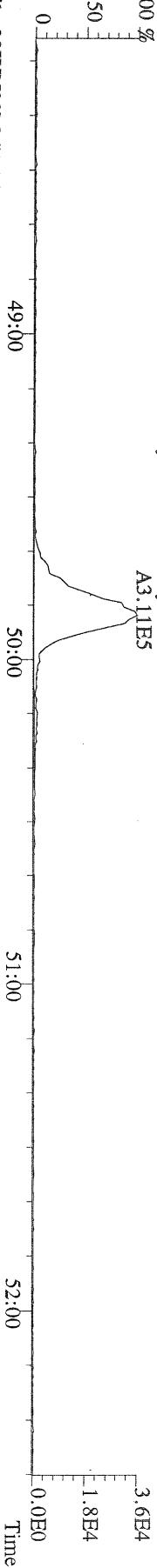
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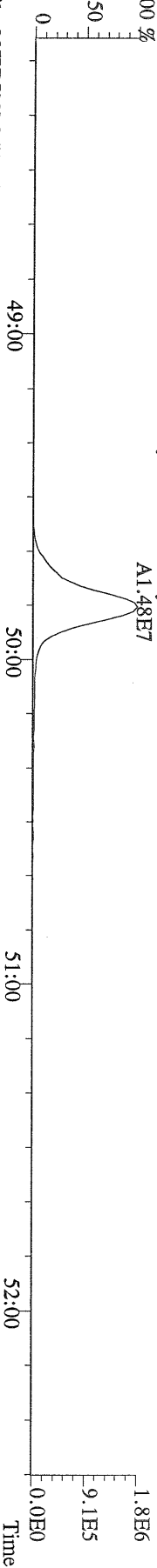
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457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



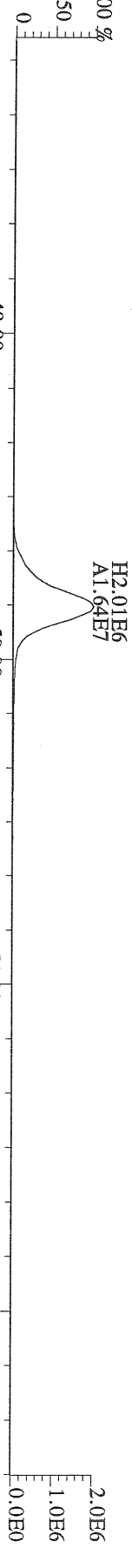
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459.7348 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



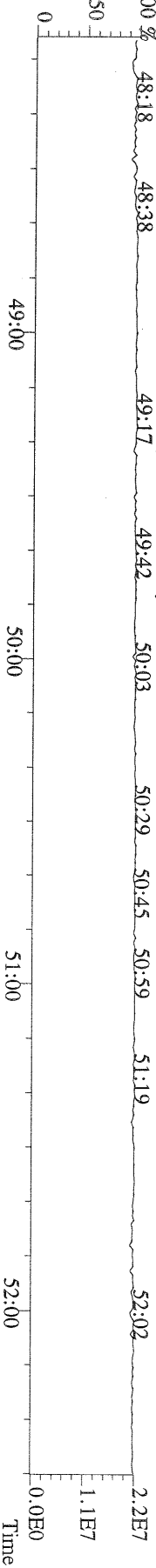
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Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



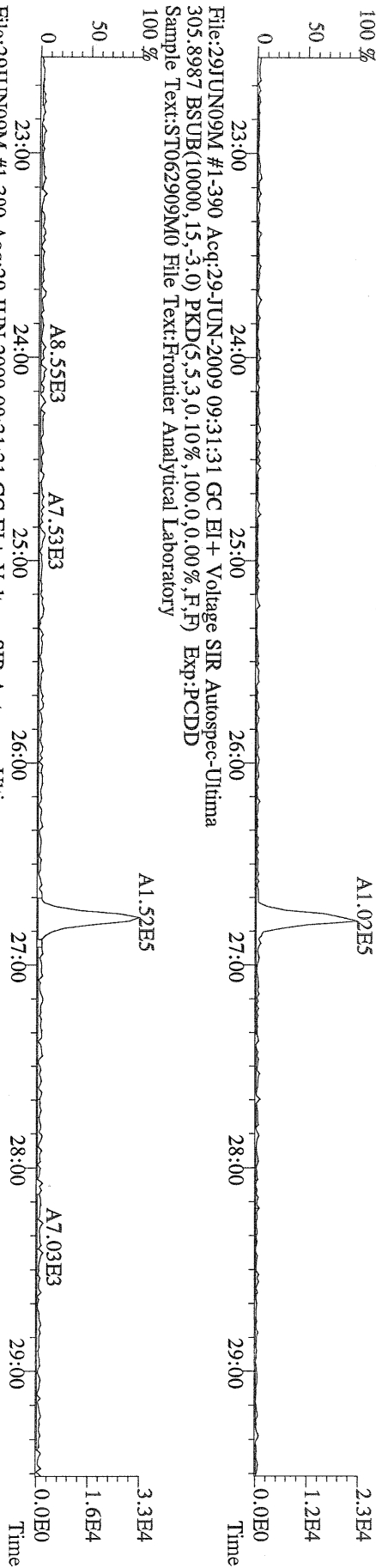
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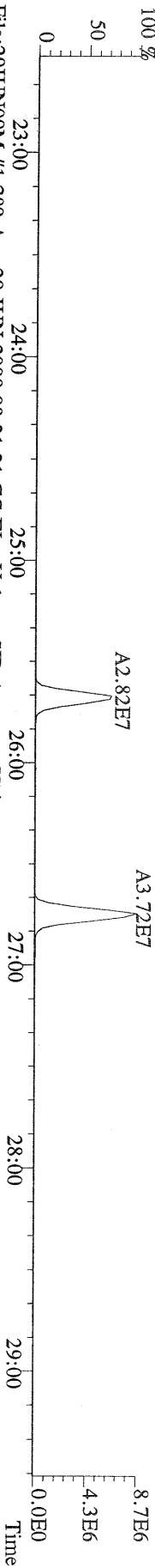
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454.9728 F:5 Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



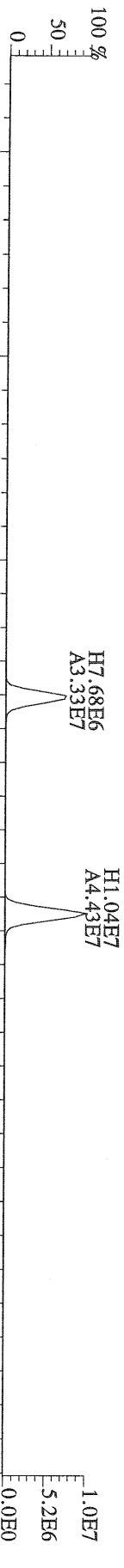
File:29JUN09M #1-390 Acq:29-JUN-2009 09:31:31 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory
100 %



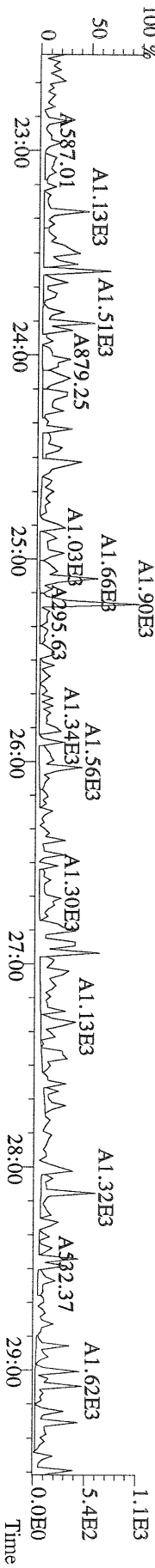
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315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory
100 %



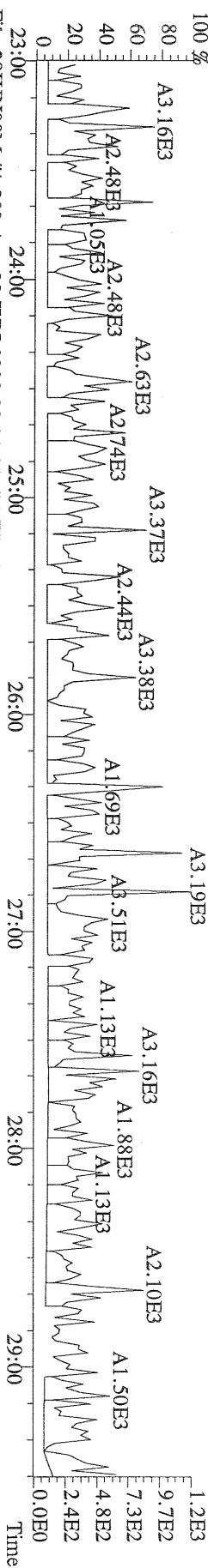
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317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



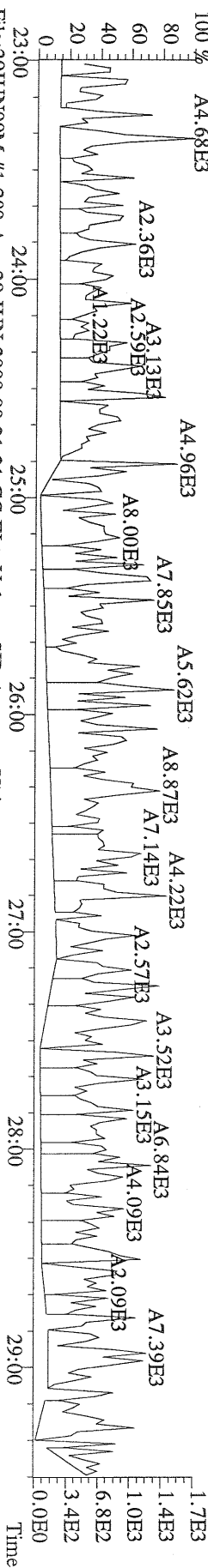
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375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



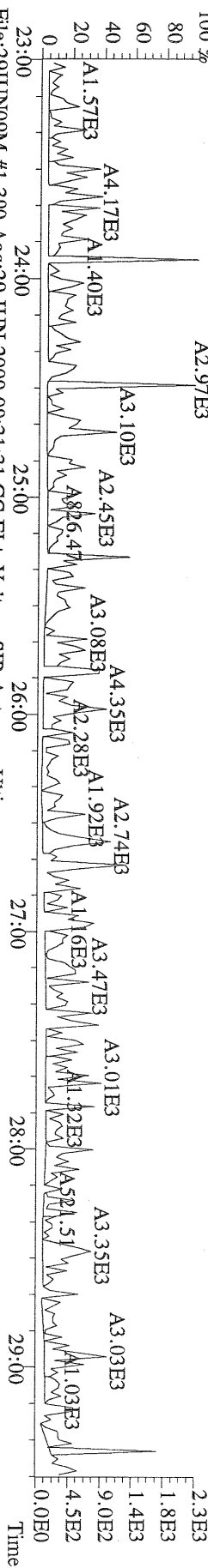
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339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



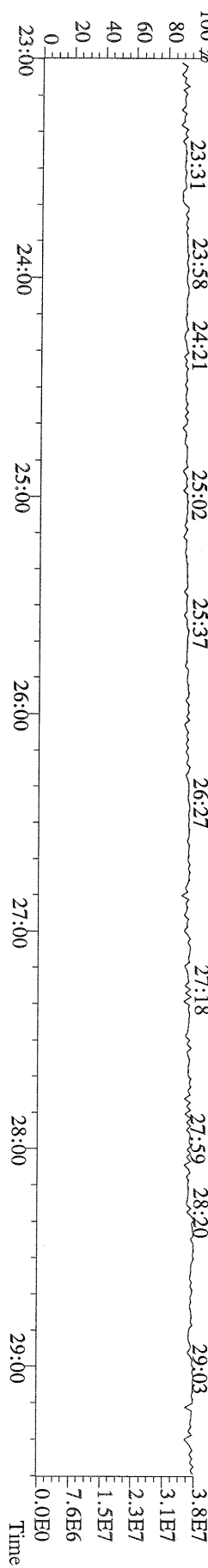
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341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



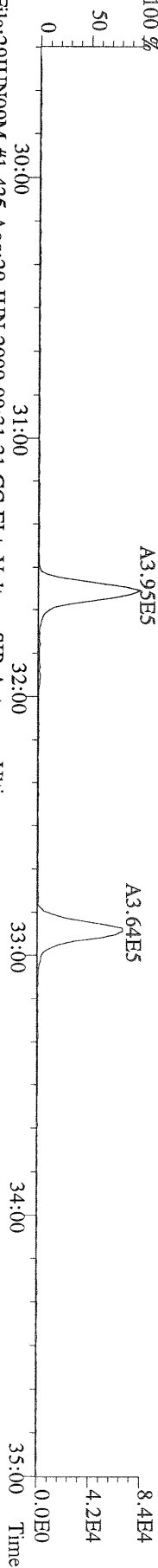
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409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



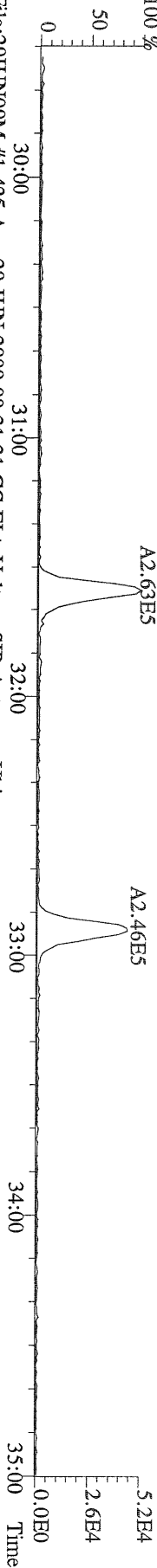
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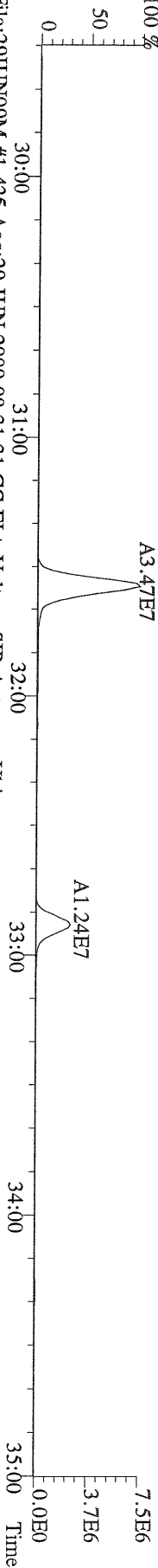
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339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



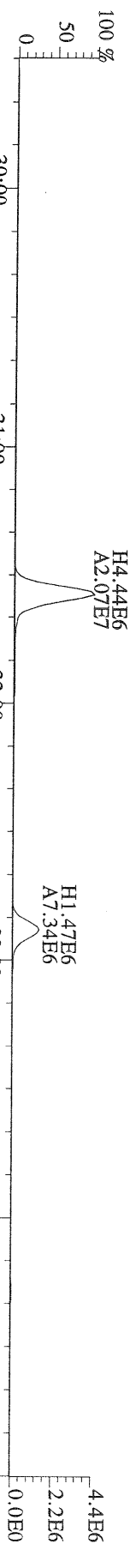
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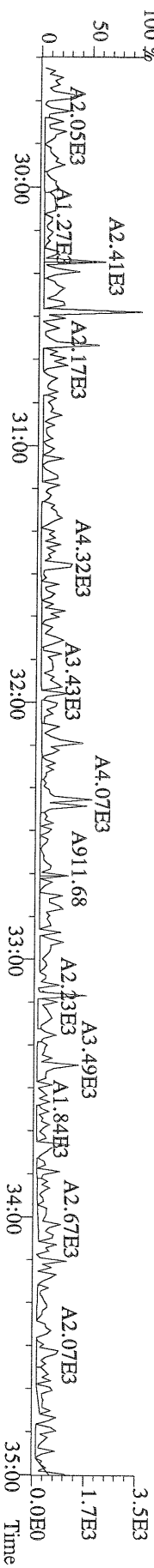
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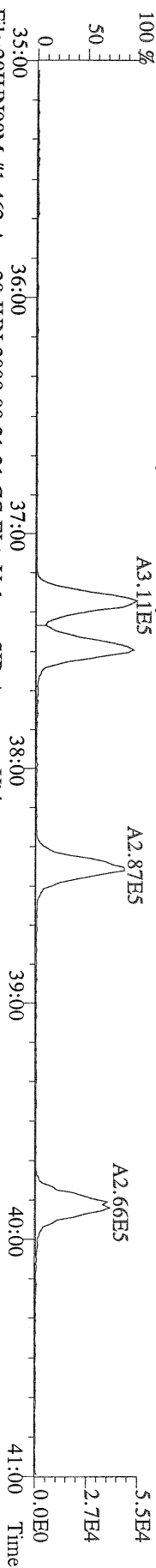
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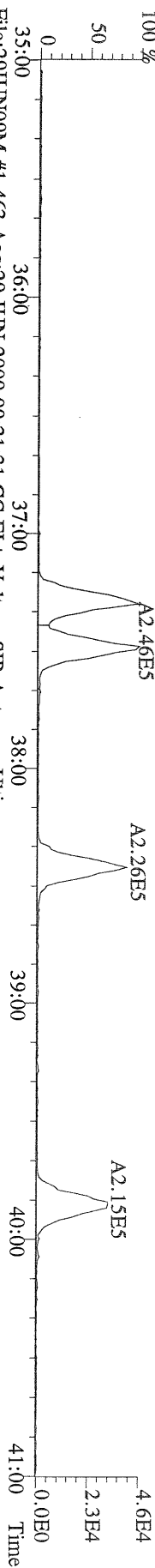
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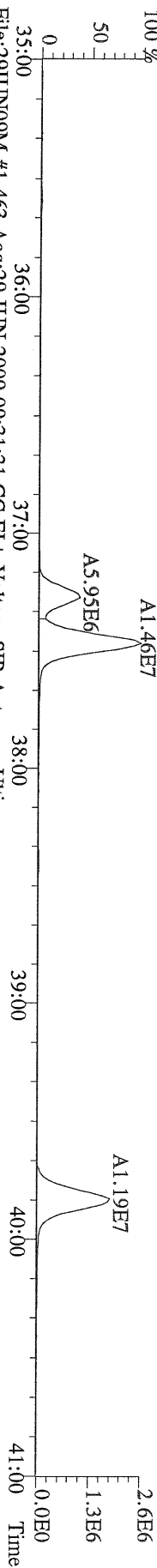
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373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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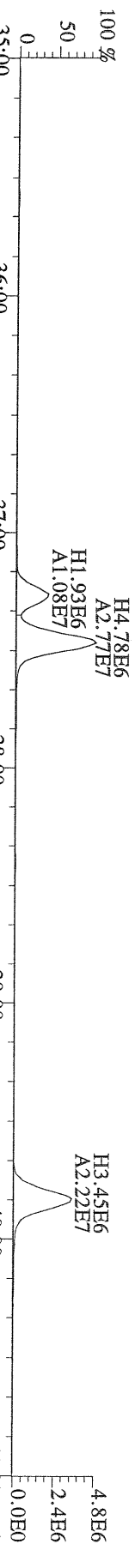
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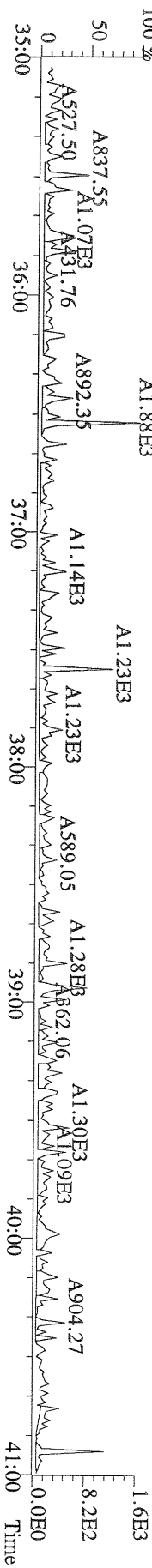
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383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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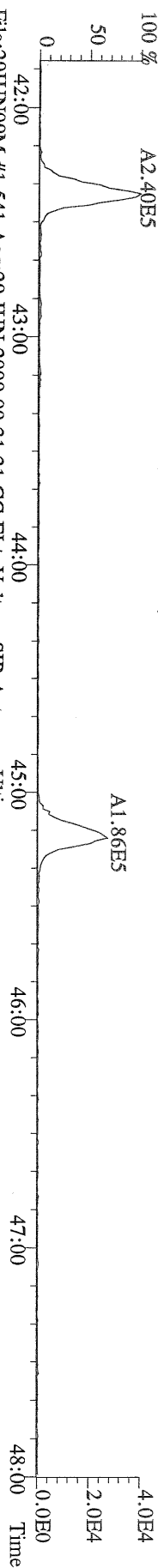
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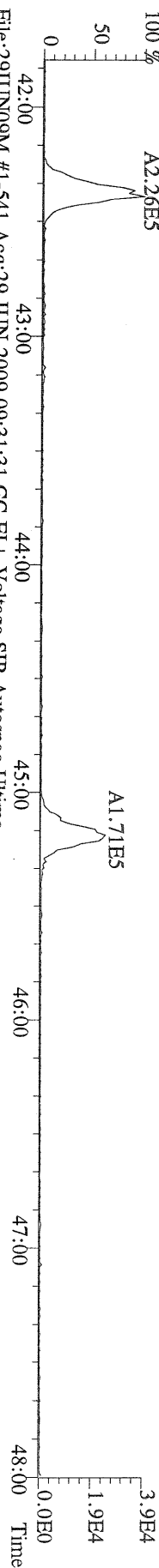
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Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



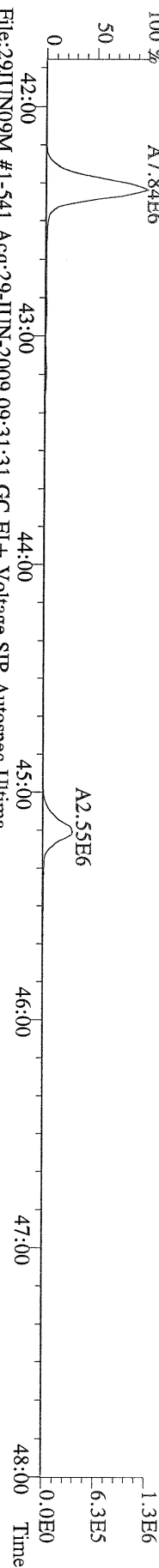
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407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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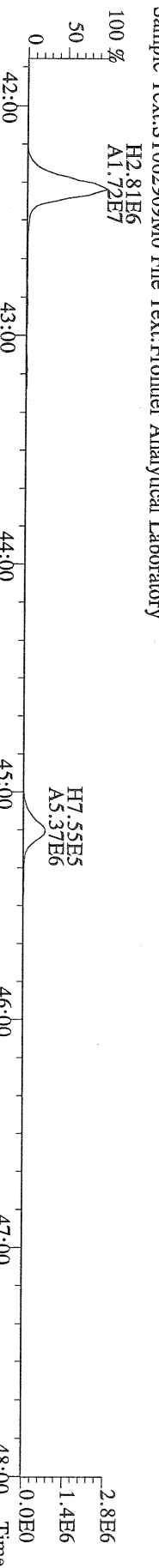
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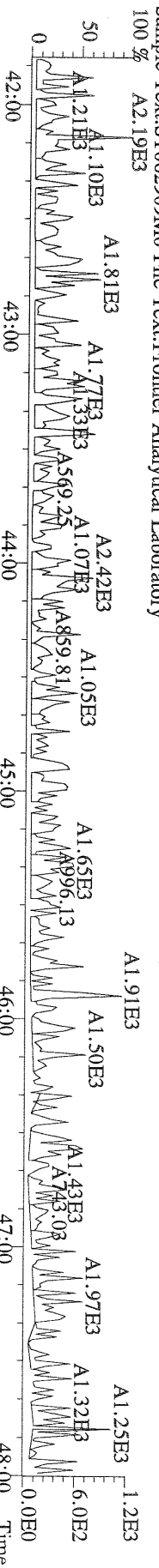
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417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



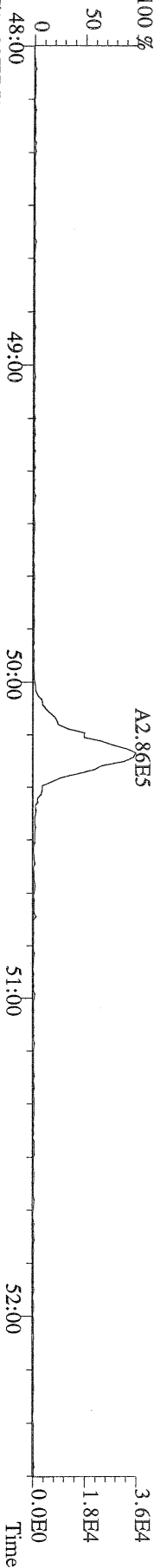
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419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



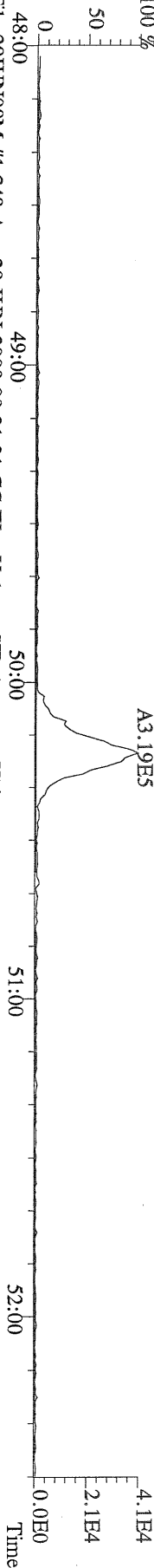
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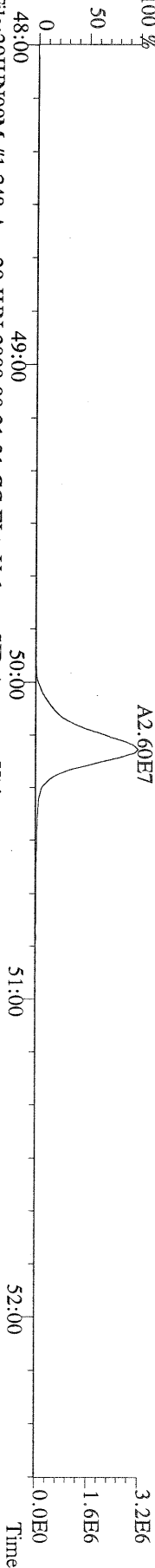
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441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



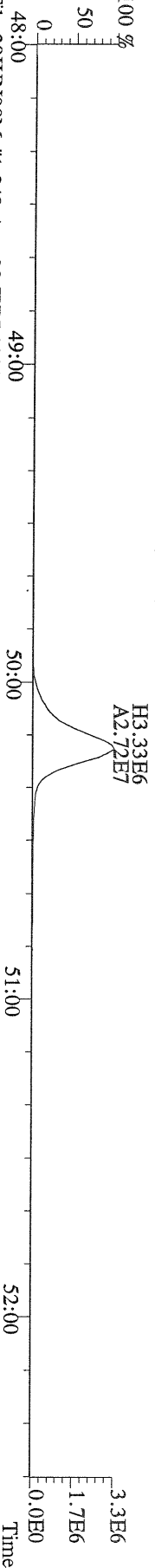
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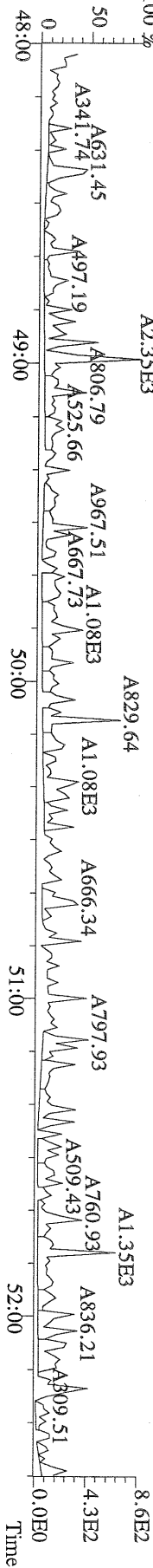
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453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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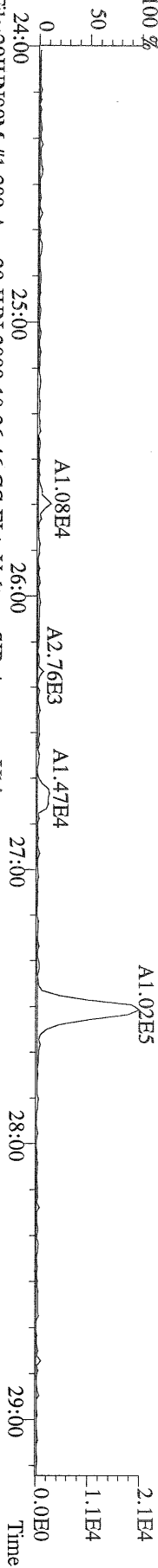
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455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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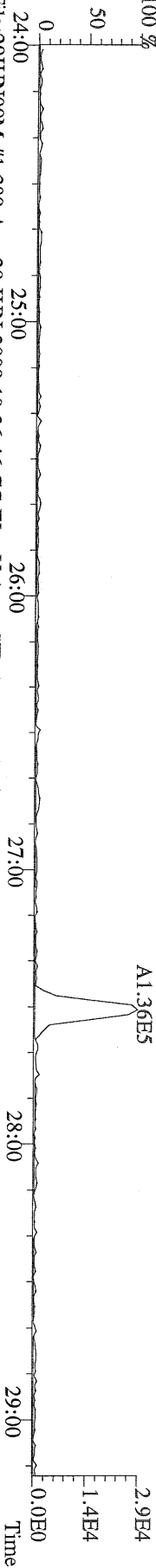
File:29JUN09M #1-348 Acq:29-JUN-2009 09:31:31 GC EI+ Voltage SIR Autospec-Ultima
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M0 File Text:Frontier Analytical Laboratory



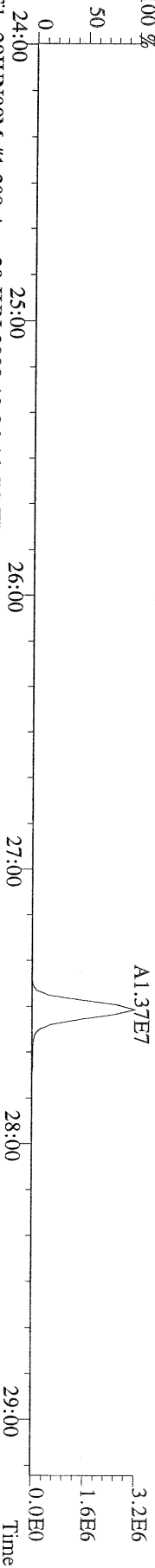
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319.8965 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



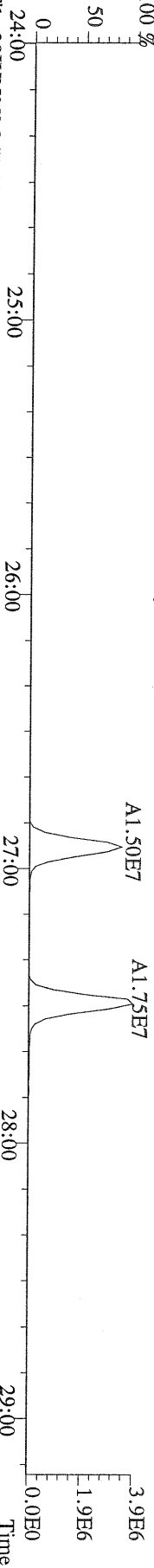
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321.8936 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



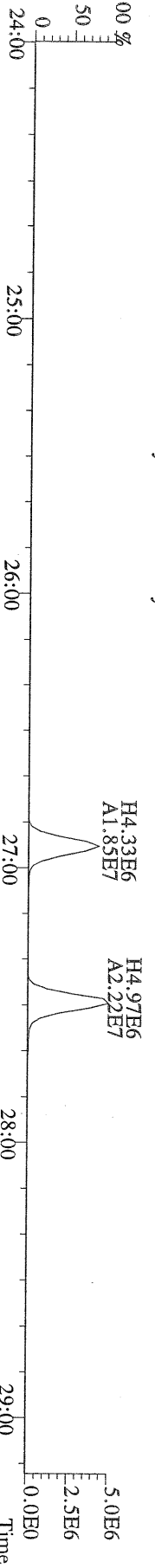
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327.8847 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



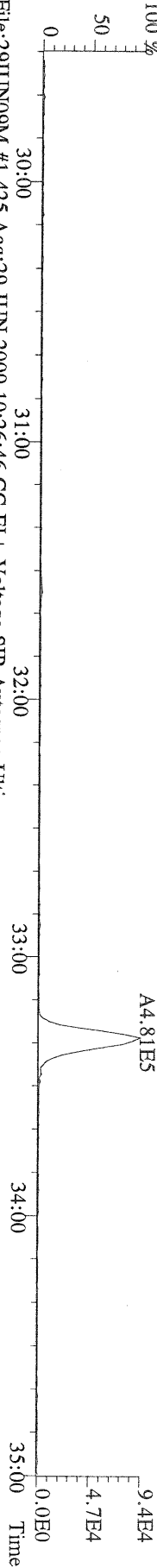
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331.9368 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



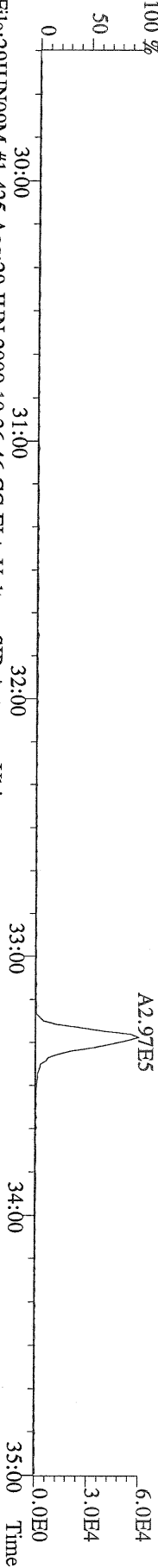
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Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



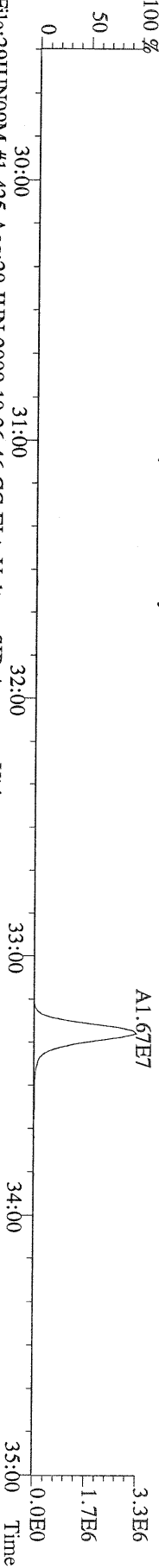
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355.8546 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



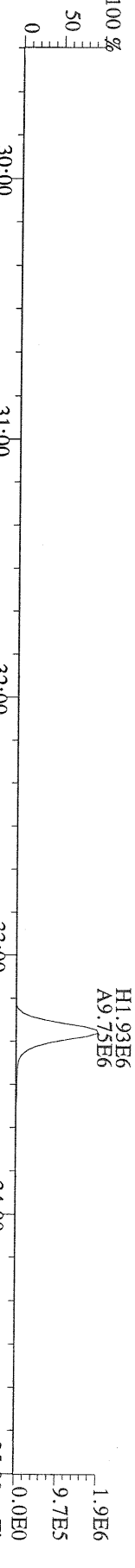
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Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



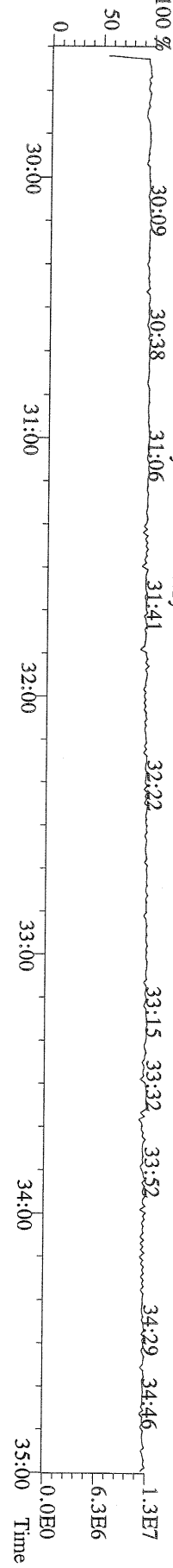
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367.8949 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



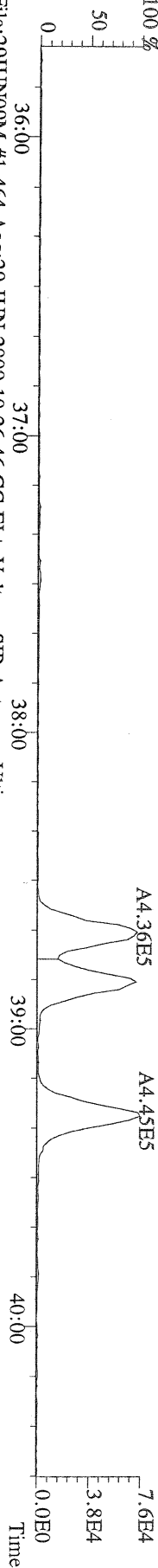
File:29JUN09M #1-425 Acq:29-JUN-2009 10:26:46 GC EI+ Voltage SIR Autospec-Ultima
369.8919 S:2 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



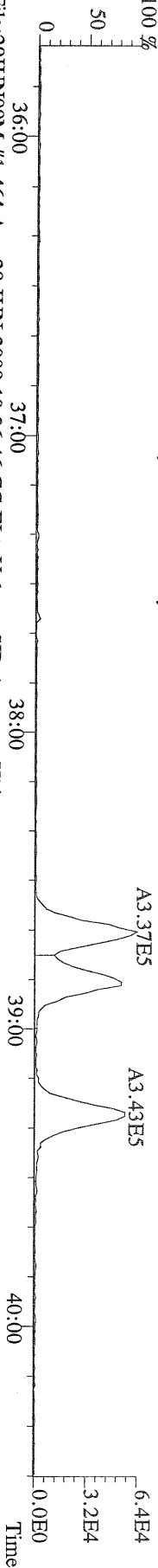
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366.9792 S:2 F:2 Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



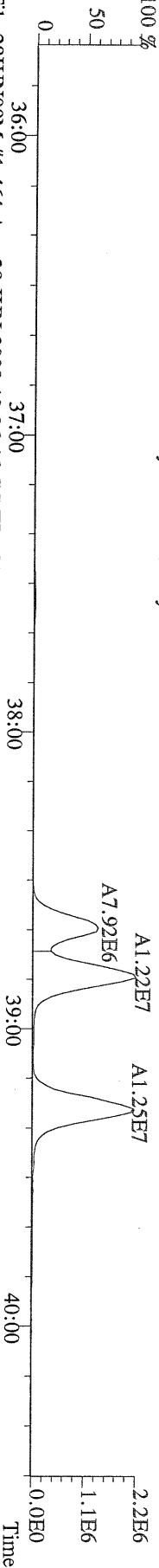
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389.8156 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



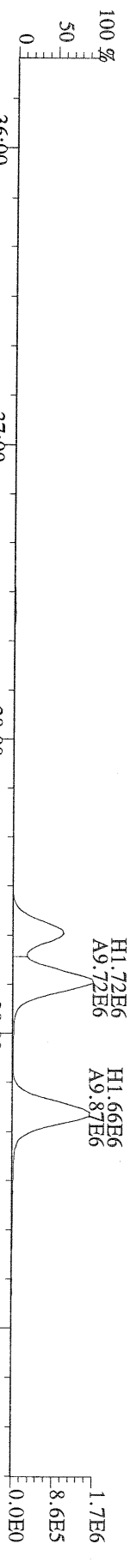
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391.8127 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



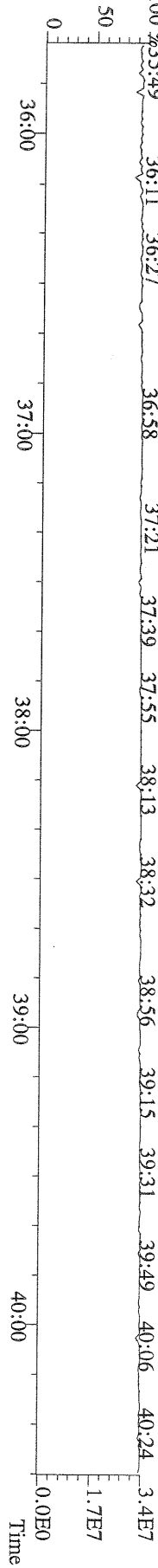
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401.8559 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



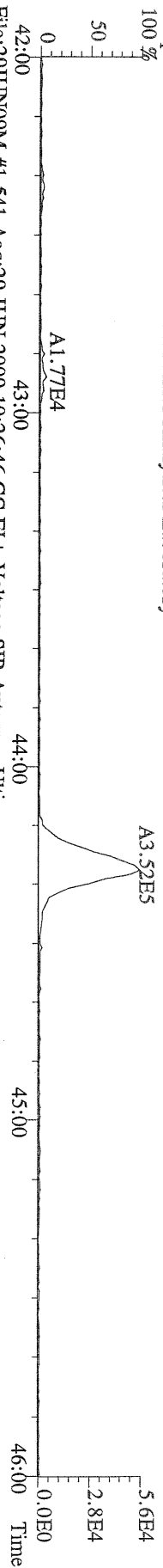
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403.8530 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



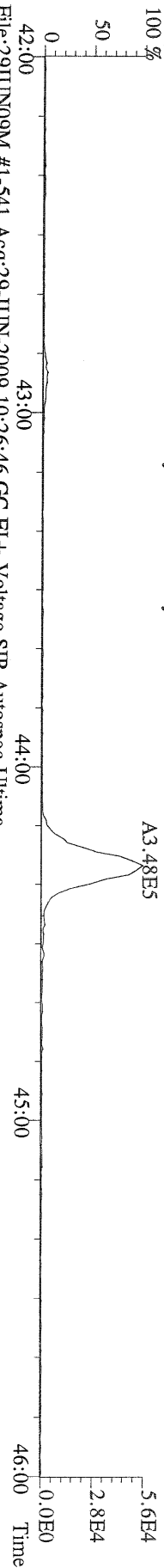
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380.9760 S:2 F:3 Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



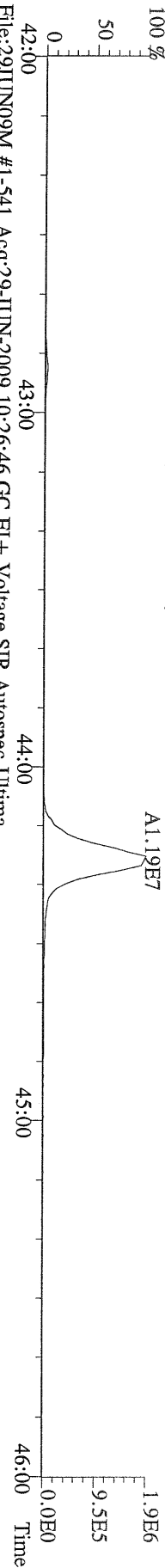
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423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



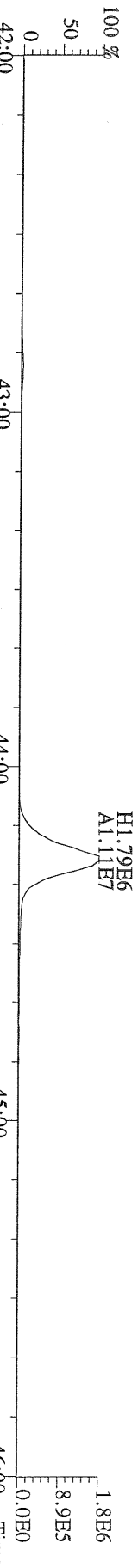
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425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



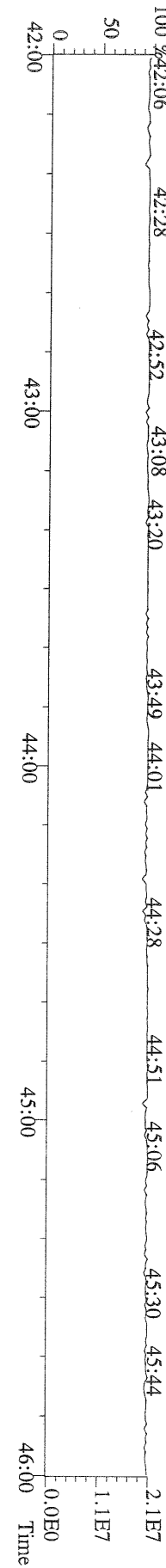
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435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



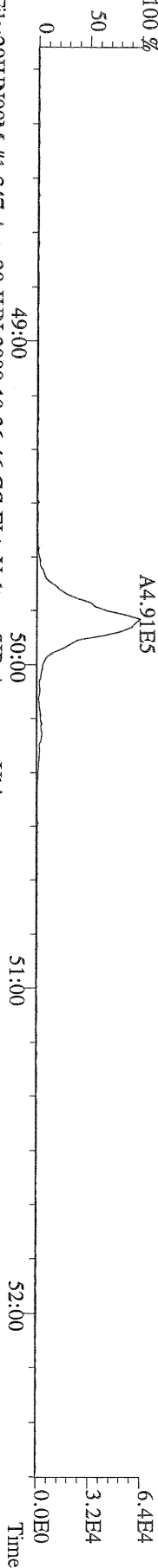
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437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



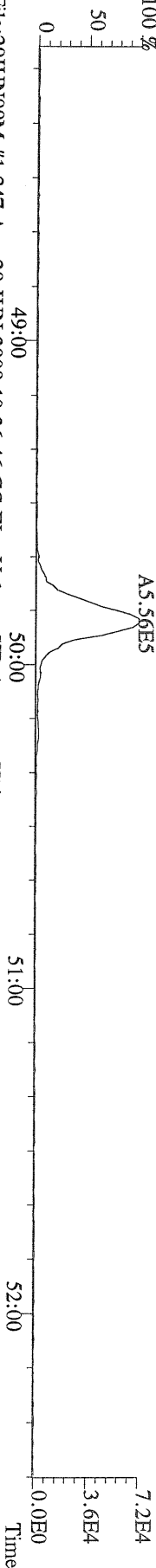
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430.9728 S:2 F:4 Exp.:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



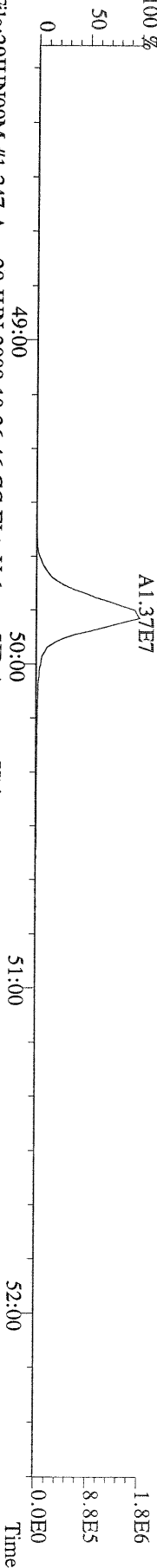
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457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



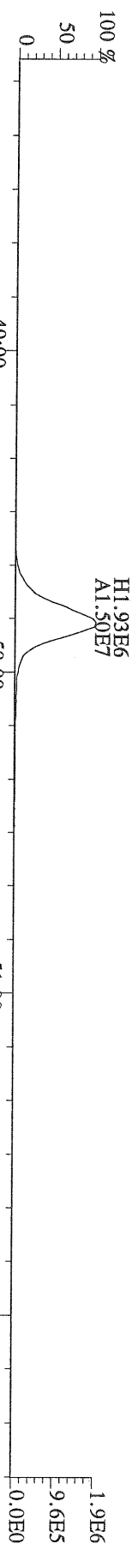
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459.7348 S:2 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



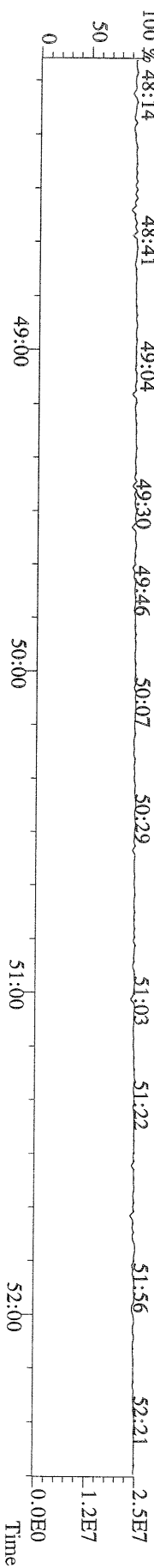
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469.7780 S:2 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



File:29JUN09M #1-347 Acq:29-JUN-2009 10:26:46 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:2 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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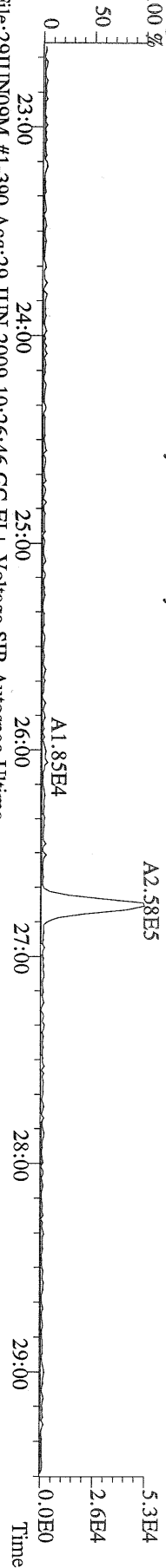
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454.9728 S:2 F:5 Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



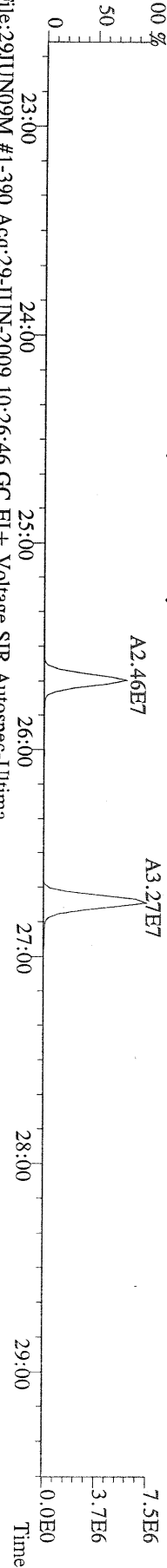
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303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



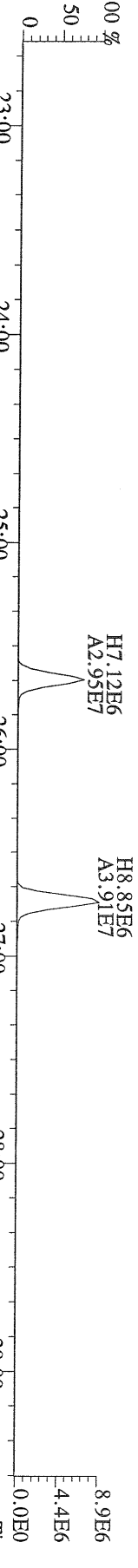
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305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



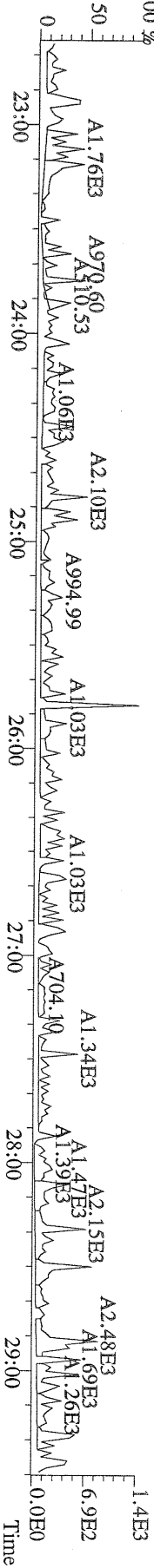
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315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



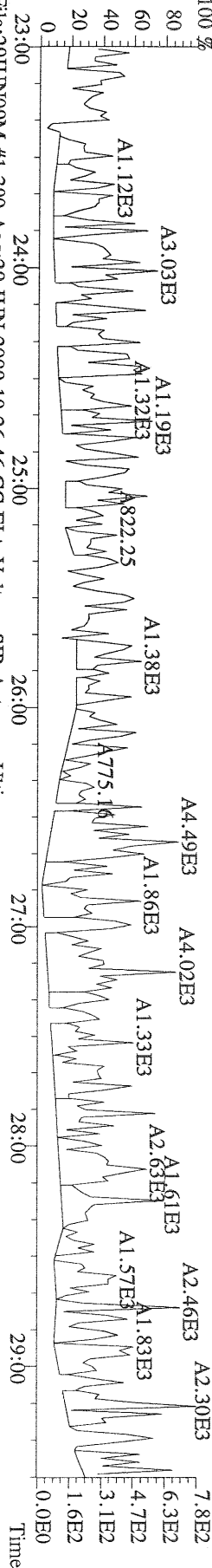
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317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



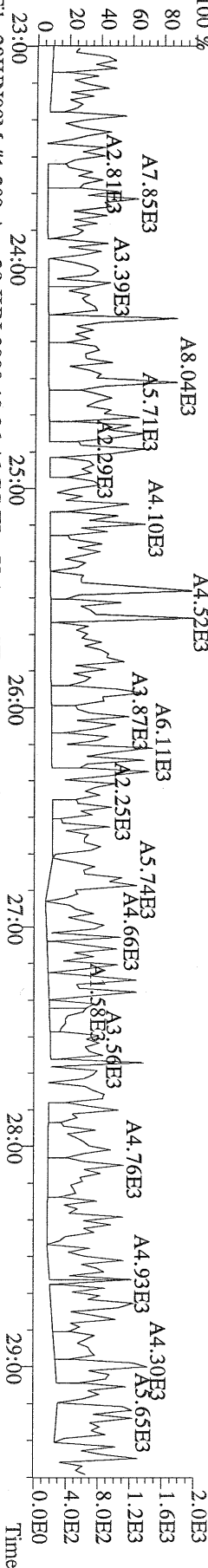
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375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



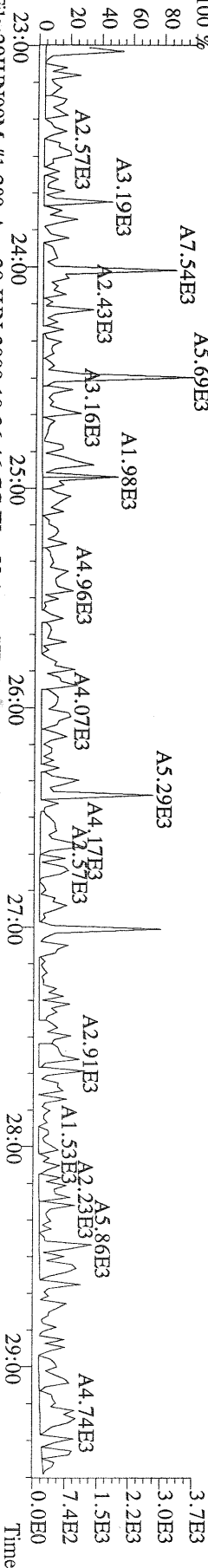
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339.8597 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



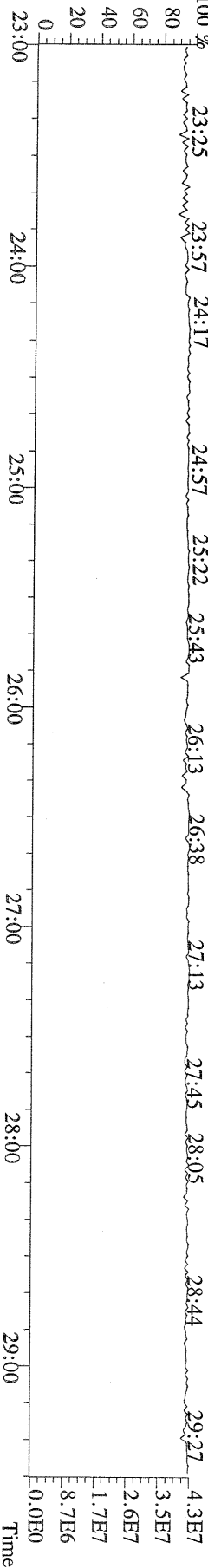
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341.8568 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



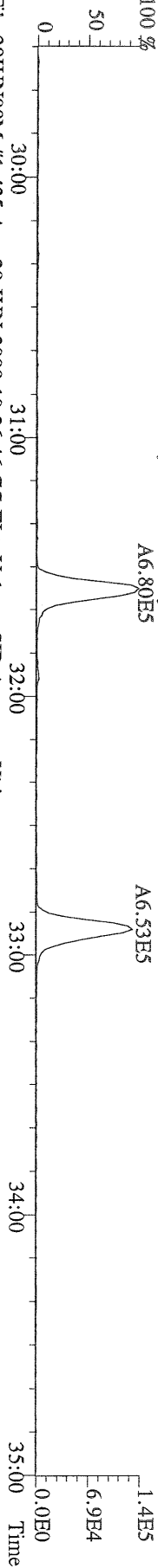
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409.7974 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



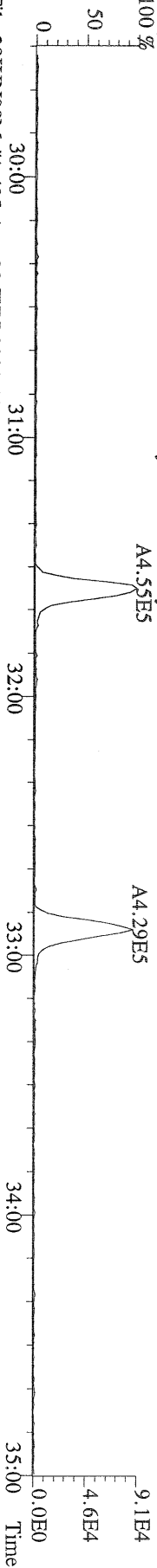
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Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



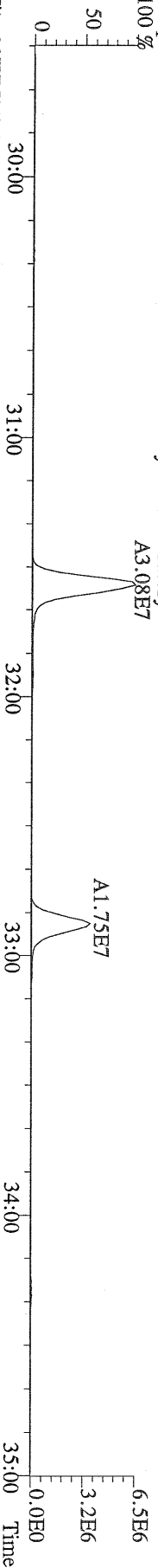
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Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



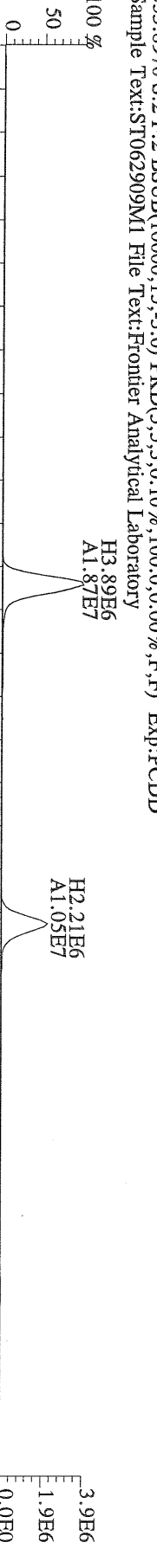
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Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



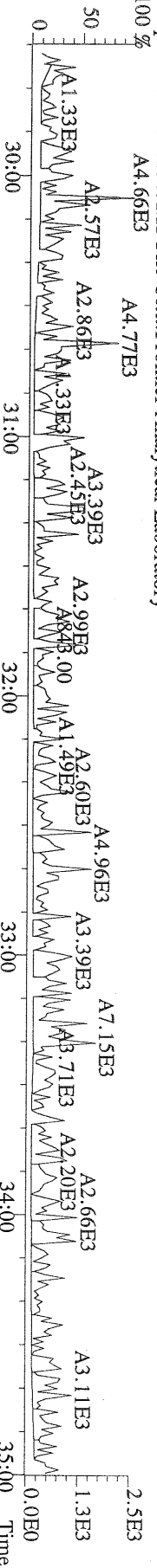
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351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



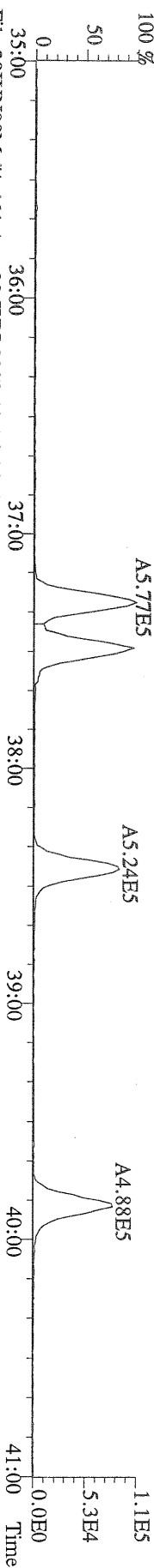
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353.8970 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



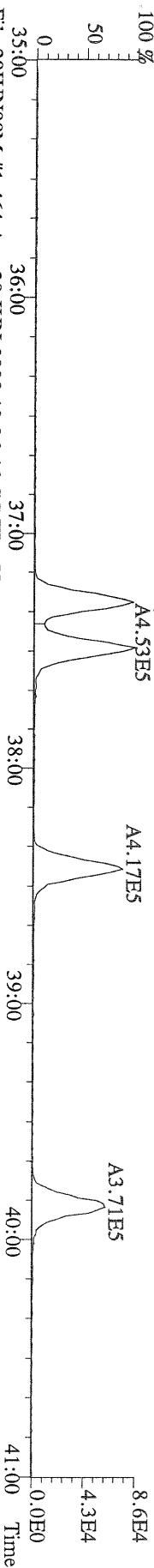
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409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



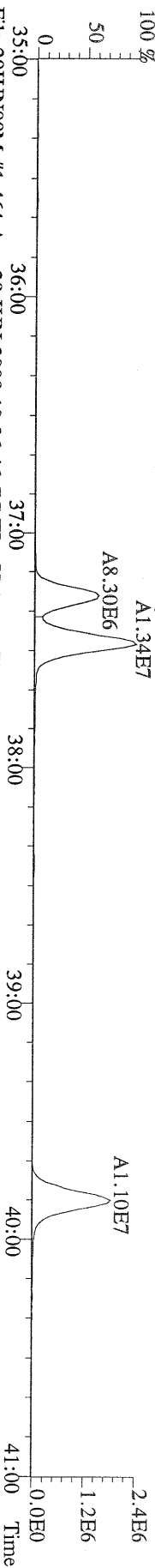
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373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



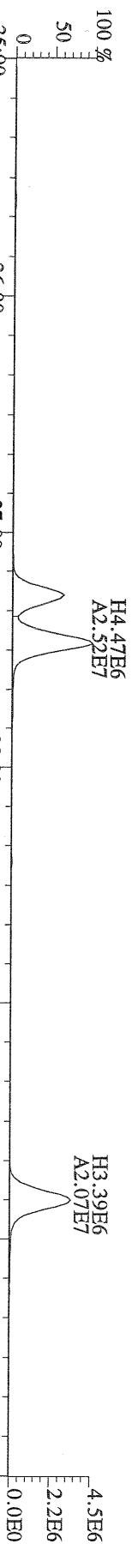
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375.8178 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



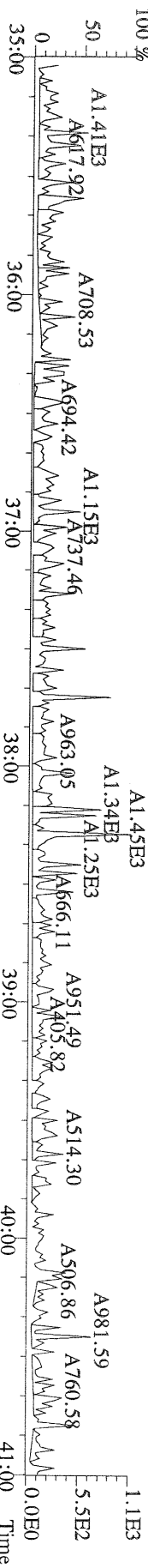
File:29JUN09M #1-464 Acq:29-JUN-2009 10:26:46 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



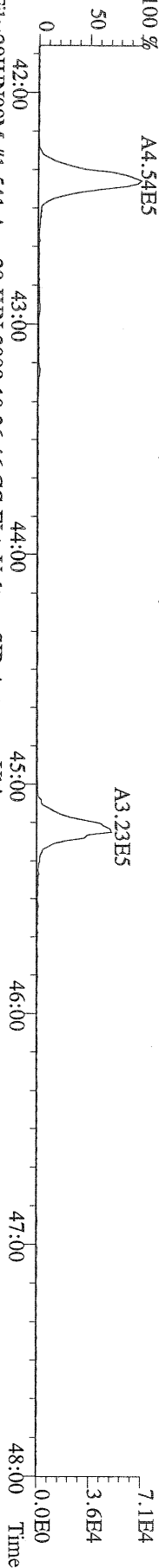
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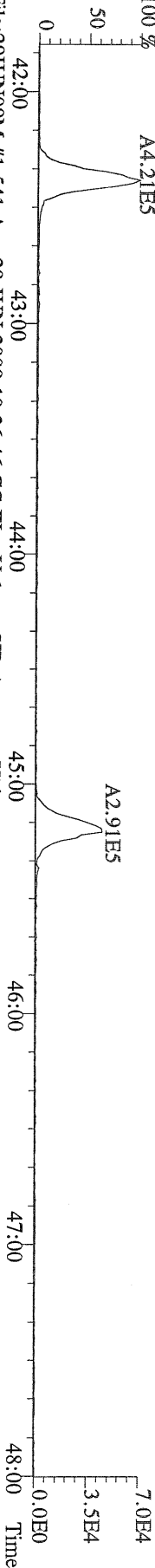
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445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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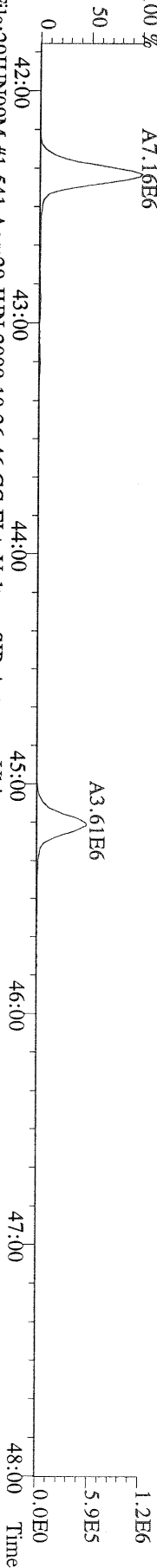
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407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



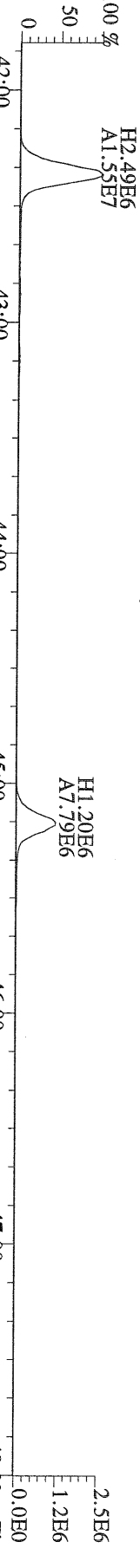
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409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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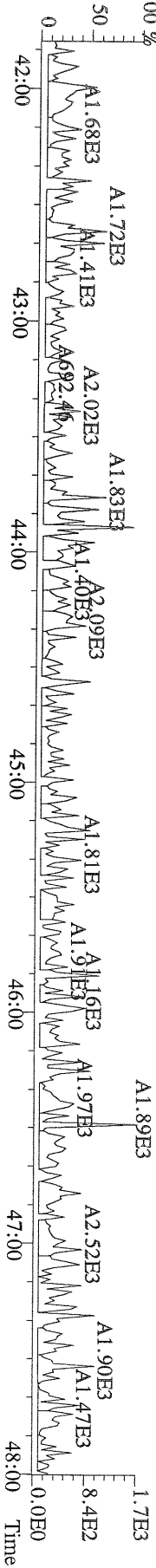
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Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



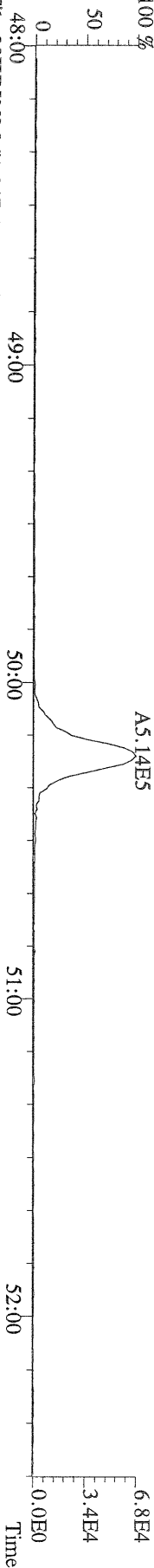
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419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



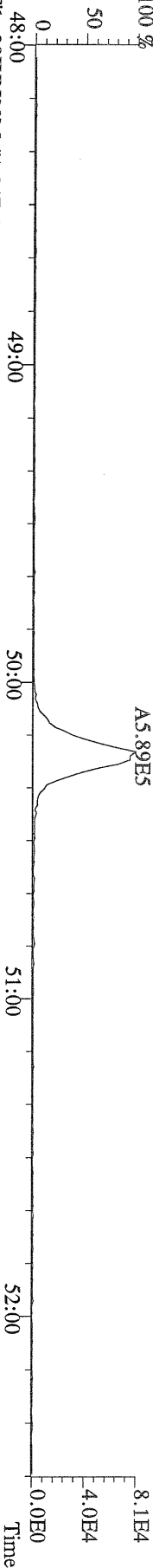
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Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



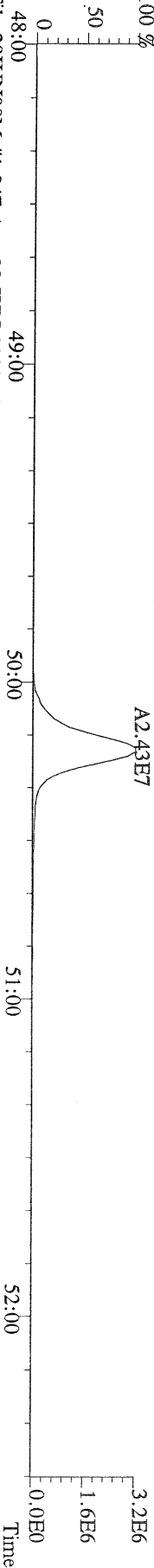
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441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



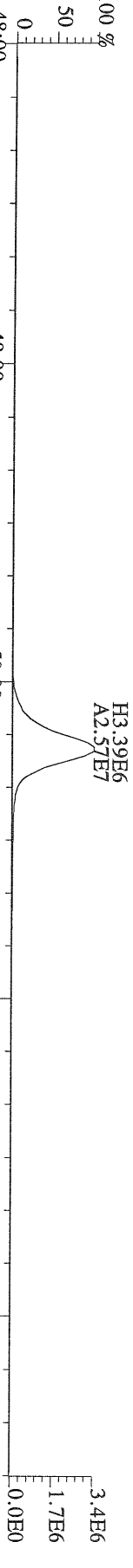
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Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



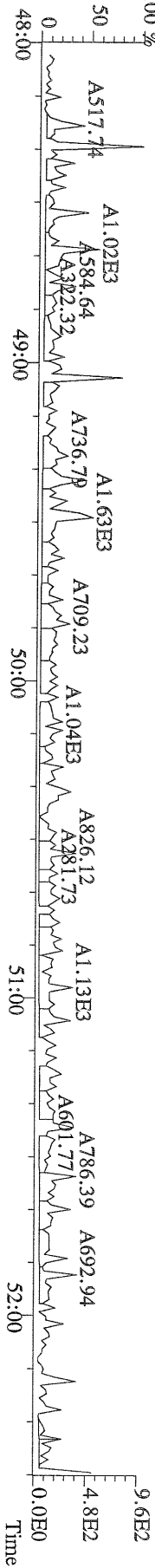
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Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory
100 %



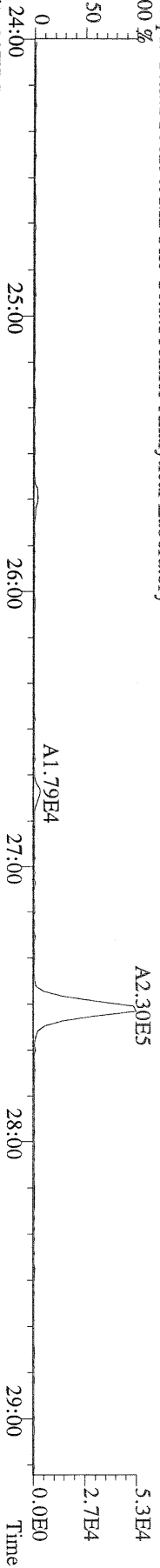
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Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



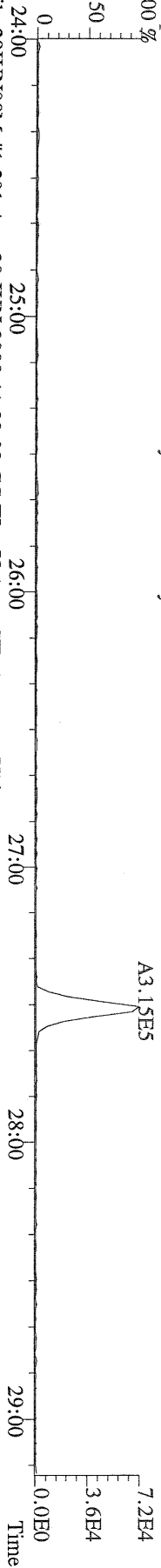
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513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M1 File Text:Frontier Analytical Laboratory



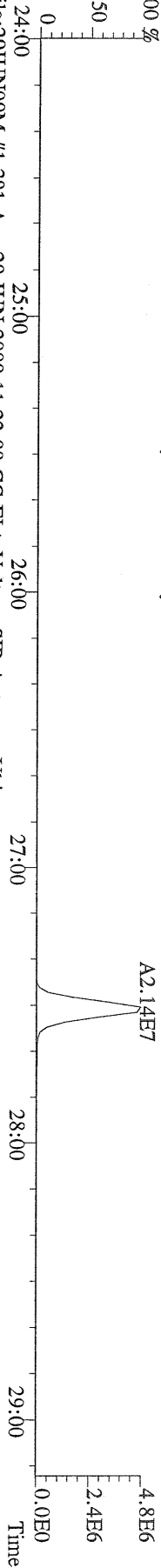
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319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory
100 %



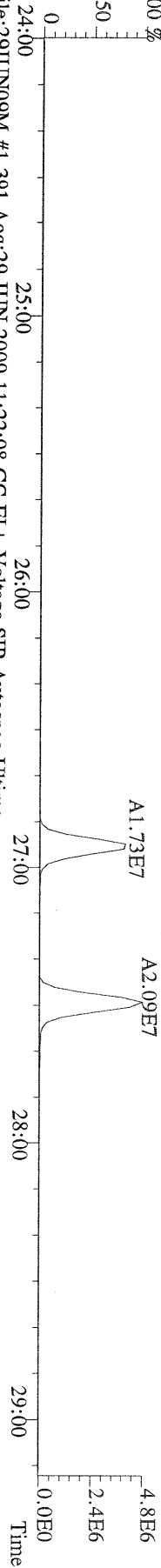
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory
100 %



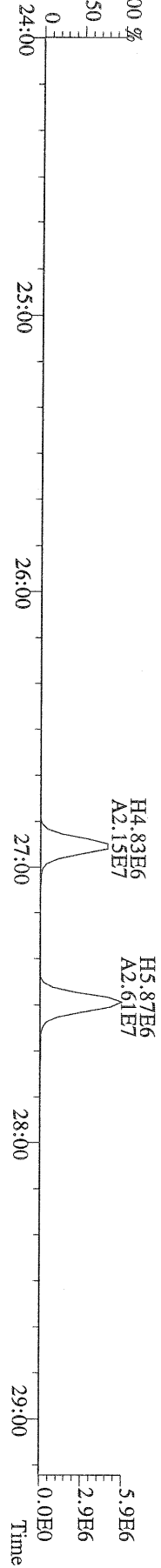
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327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory
100 %



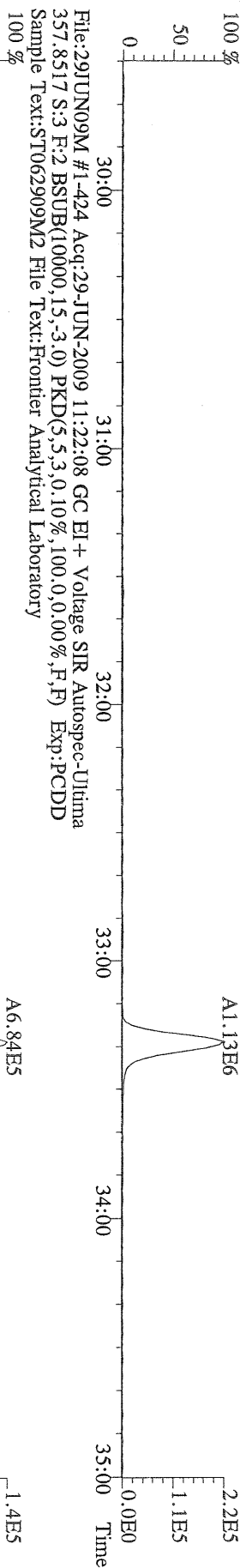
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331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory
100 %



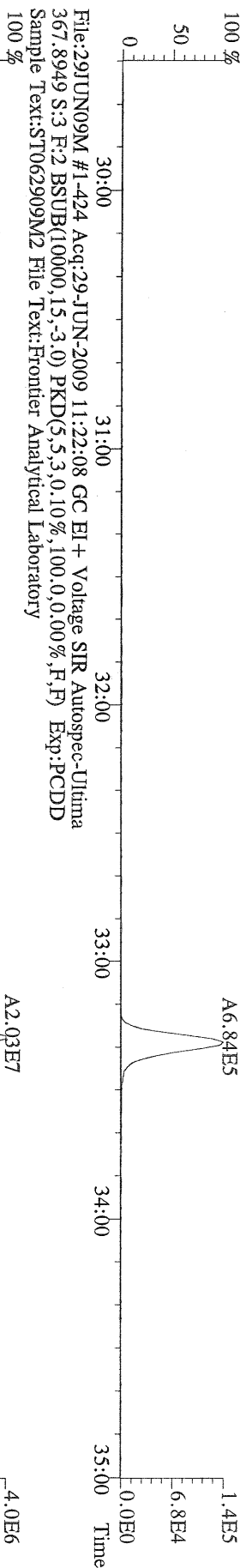
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



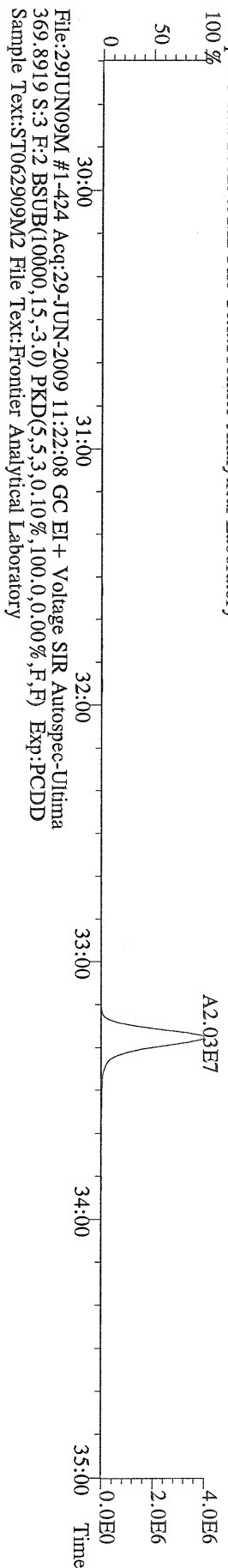
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355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory
100 %



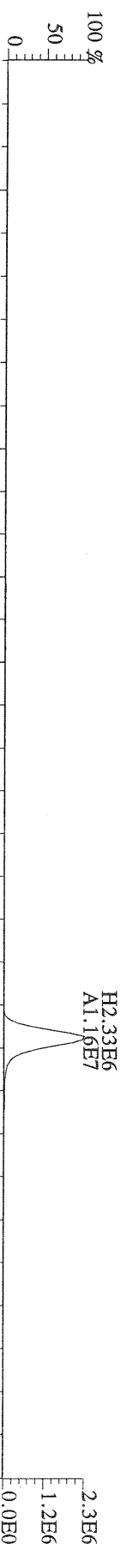
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357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory
100 %



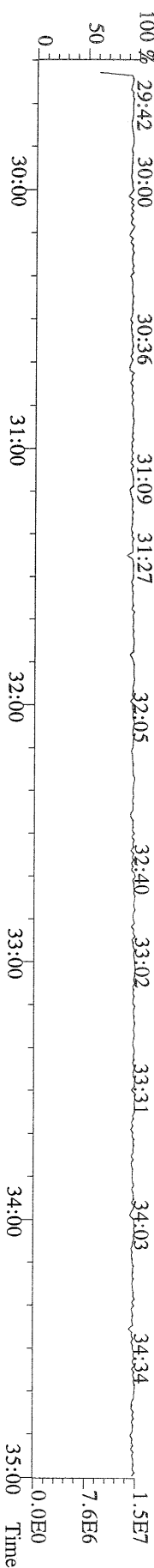
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367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory
100 %



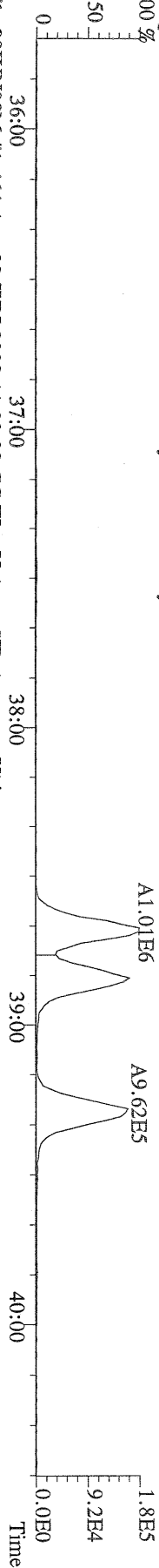
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369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



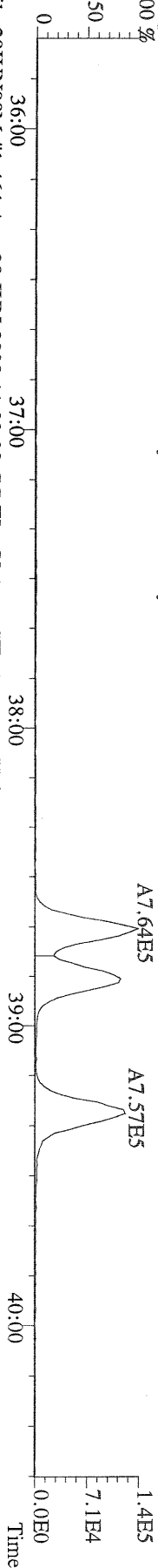
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366.9792 S:3 F:2 Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



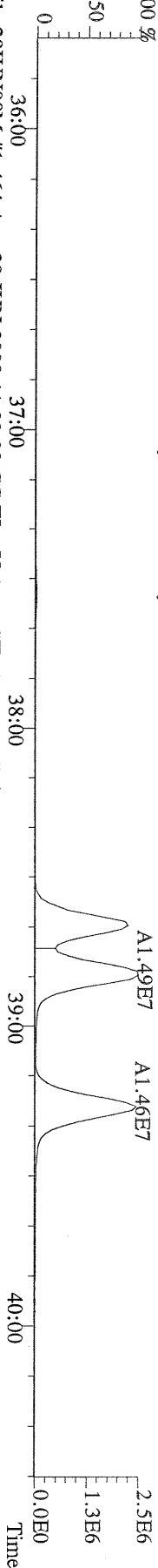
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389.8156 S:3 F:3 BSub(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



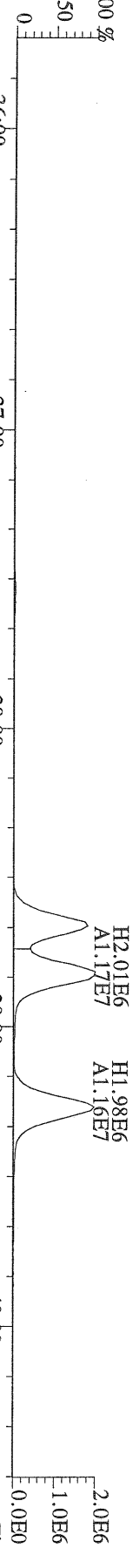
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391.8127 S:3 F:3 BSub(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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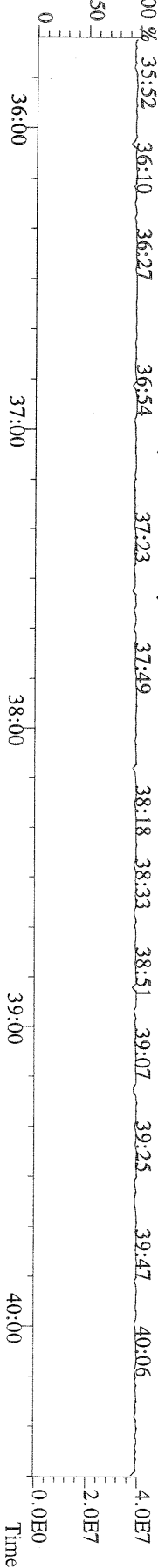
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401.8559 S:3 F:3 BSub(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



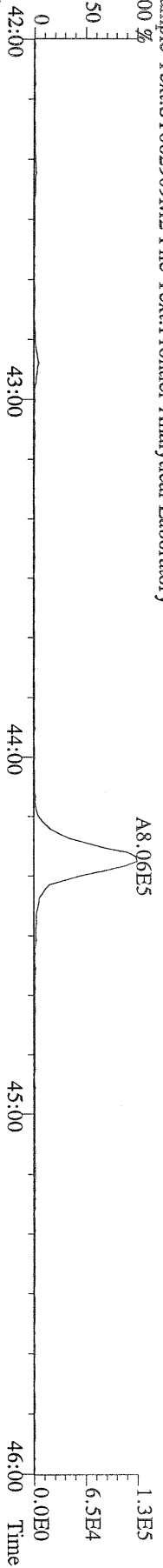
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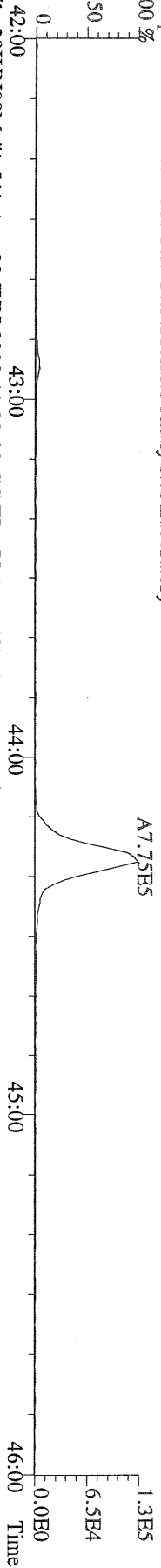
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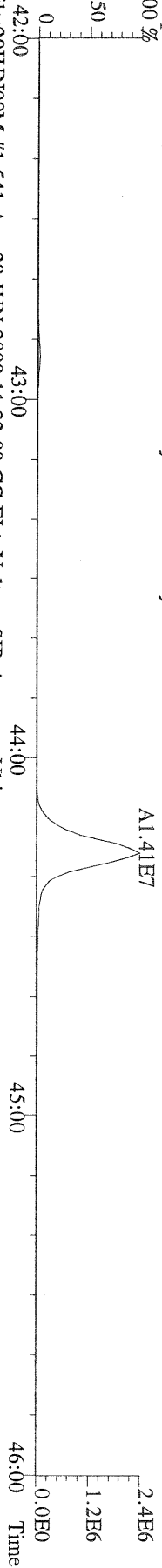
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



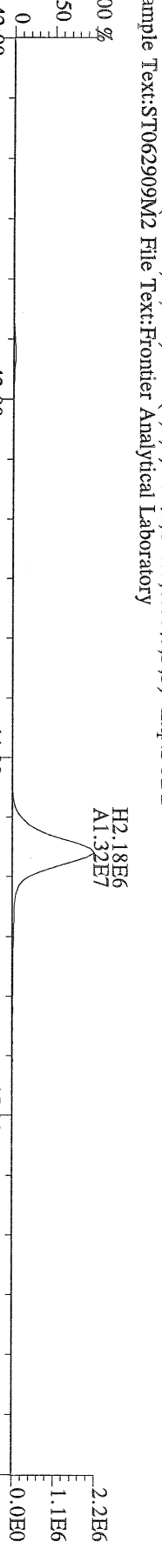
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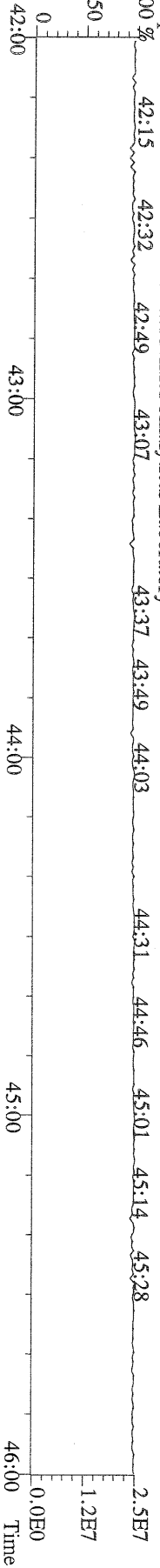
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



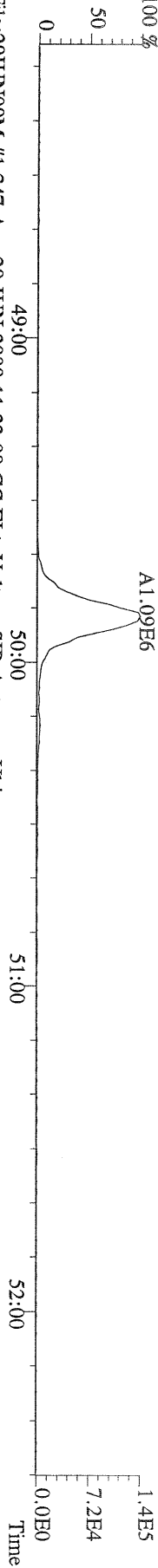
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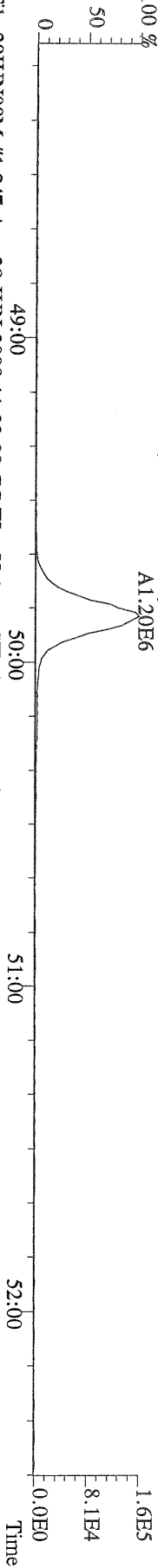
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



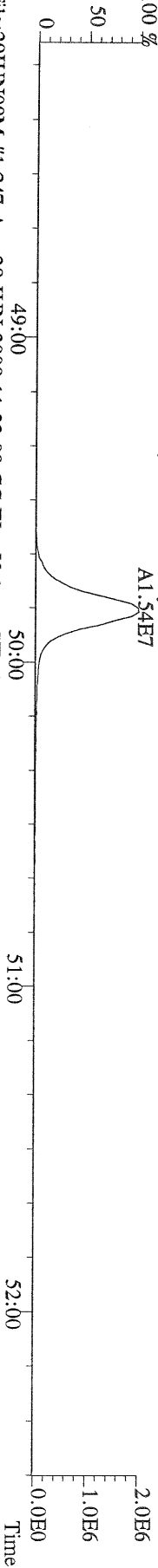
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100 %



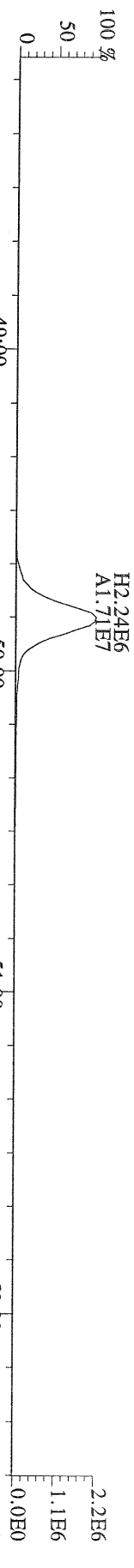
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459.7348 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory
100 %



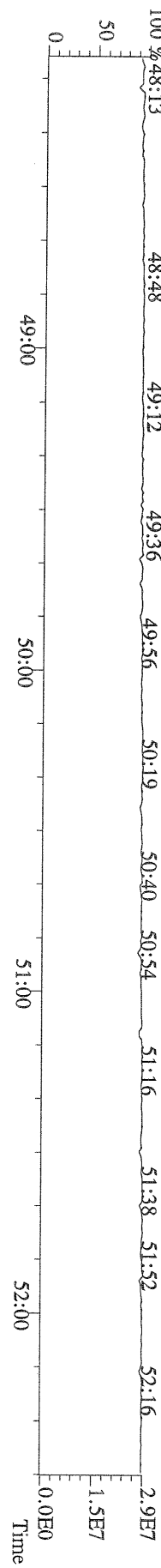
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469.7780 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory
100 %



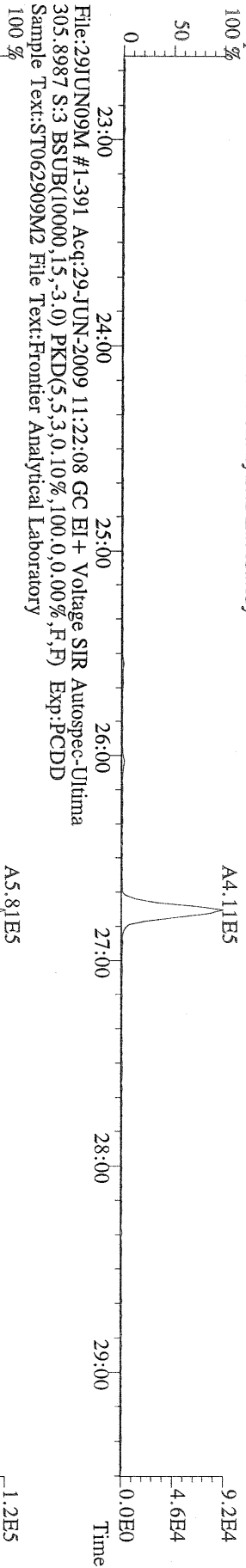
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471.7750 S:3 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



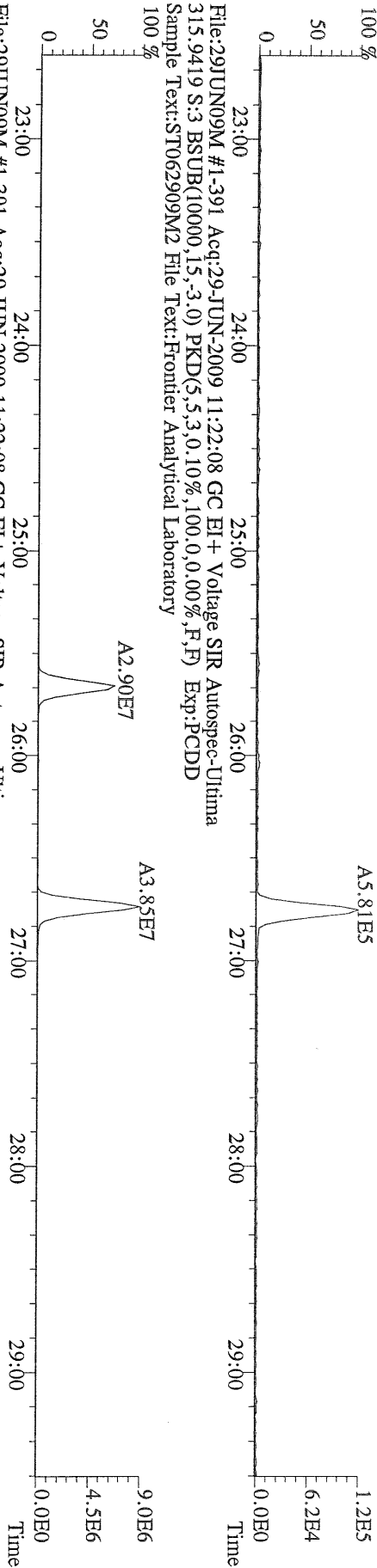
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454.9728 S:3 F:5 Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



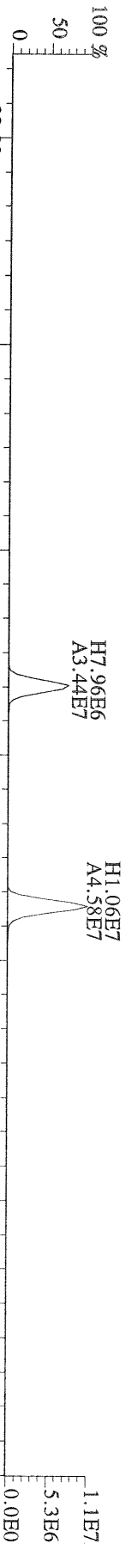
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303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



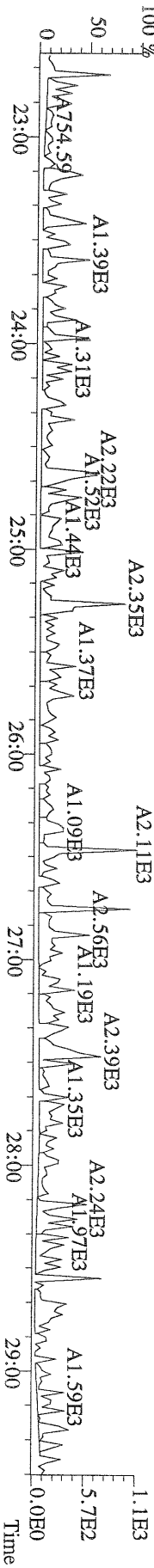
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315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



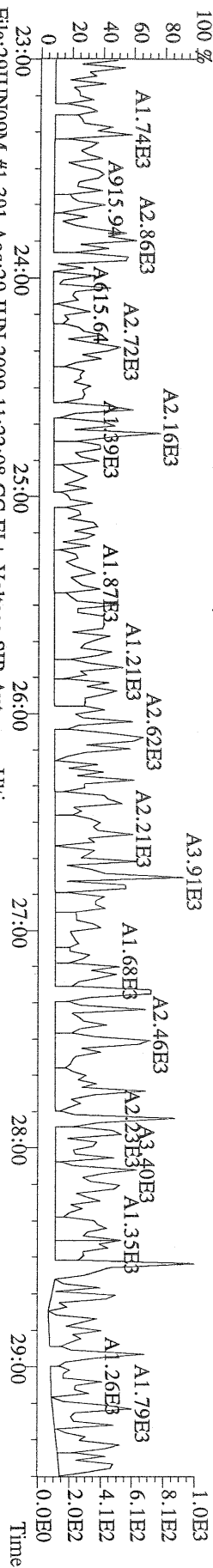
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317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



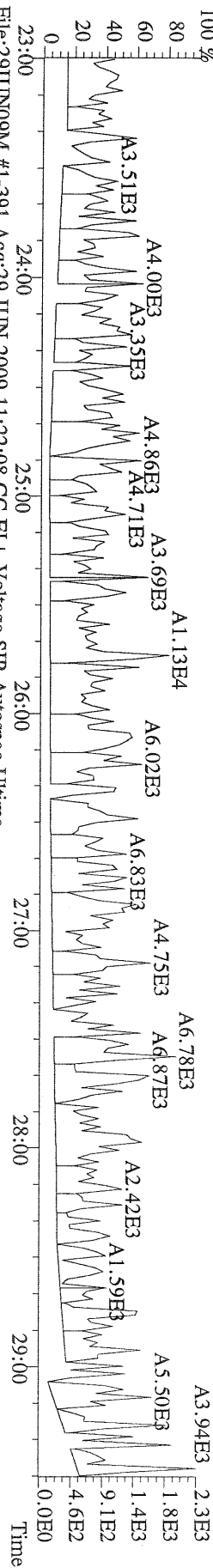
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375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



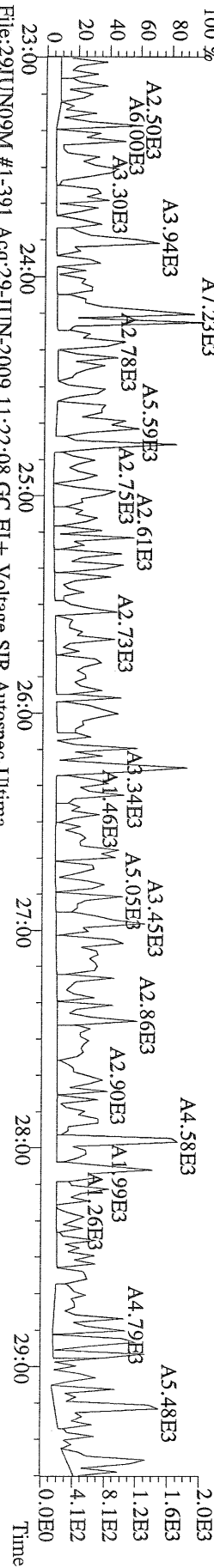
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339.8597 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



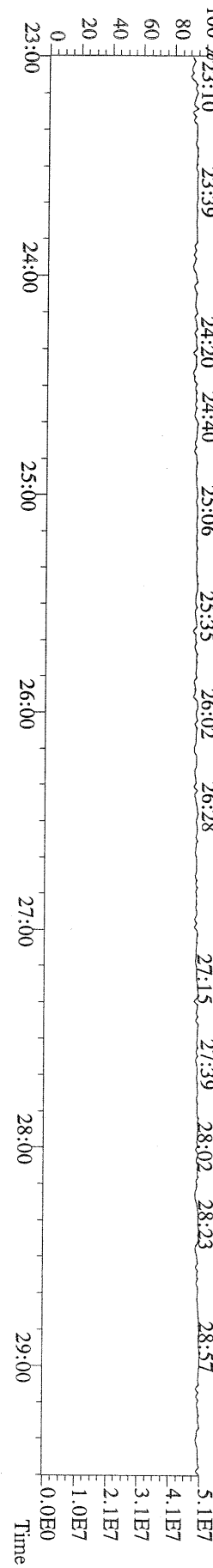
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341.8568 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



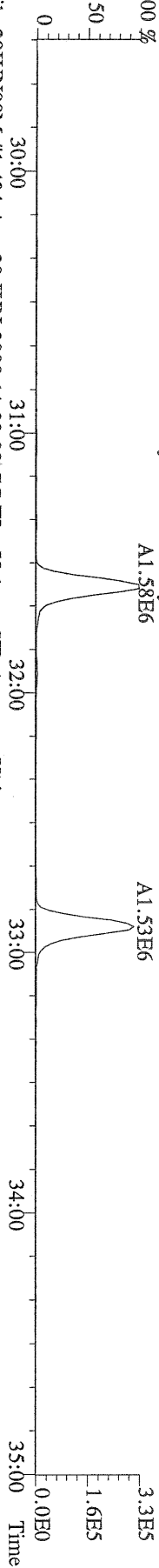
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



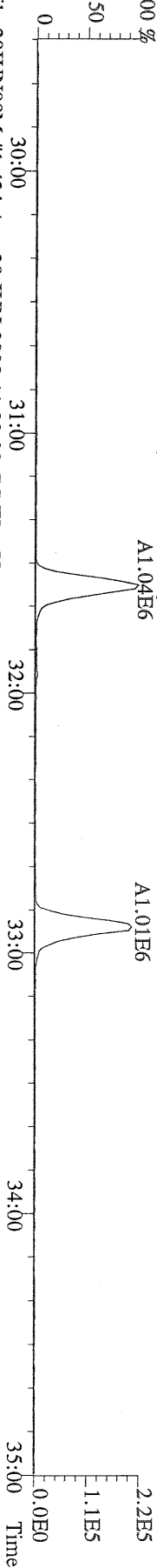
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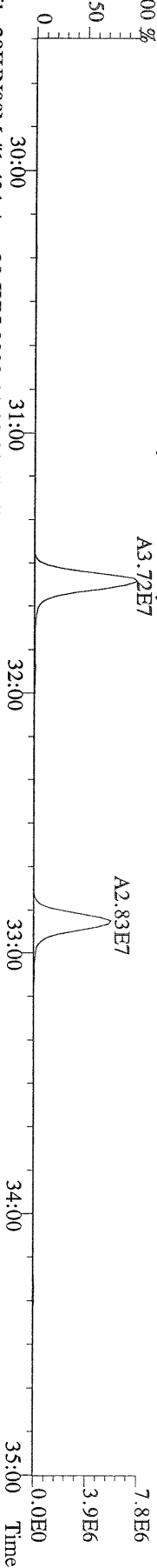
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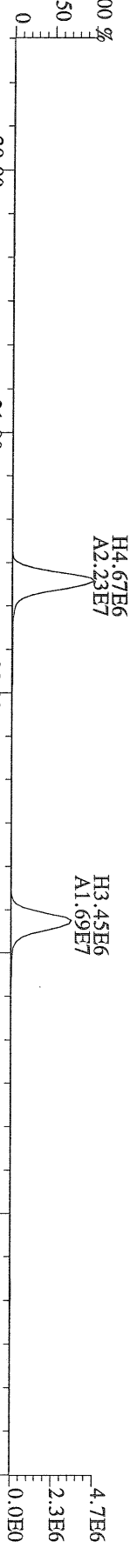
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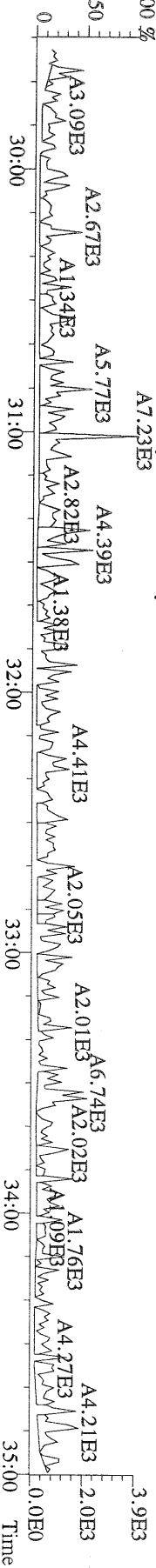
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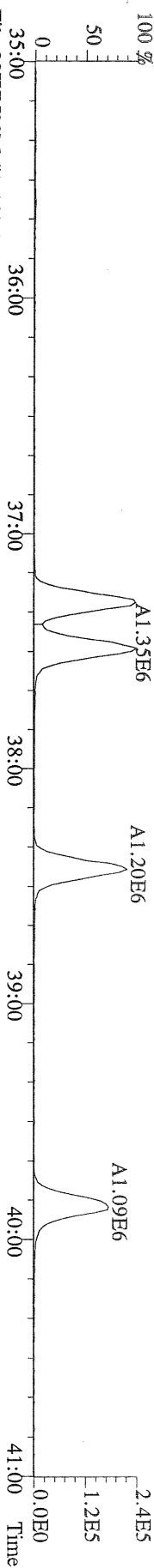
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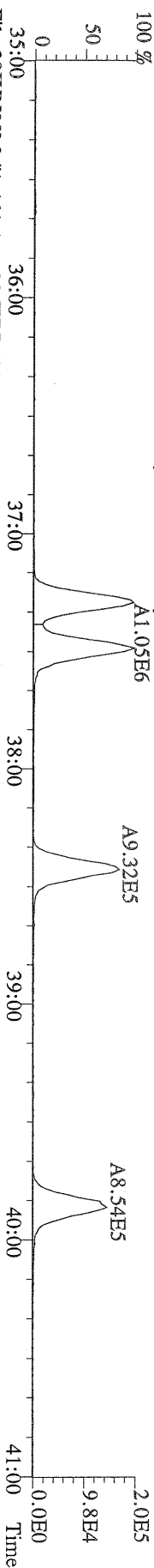
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



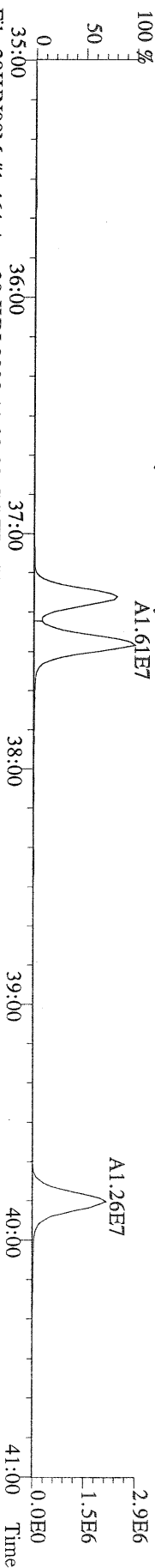
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



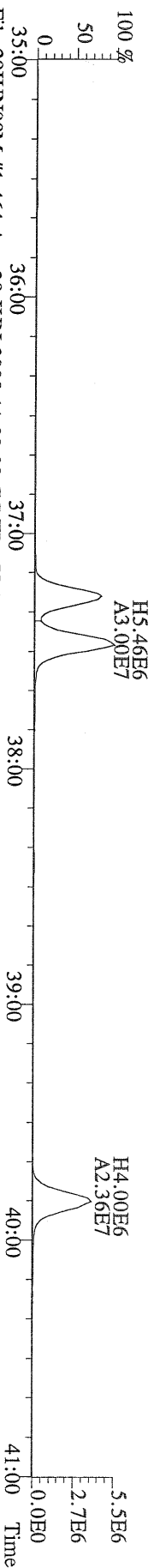
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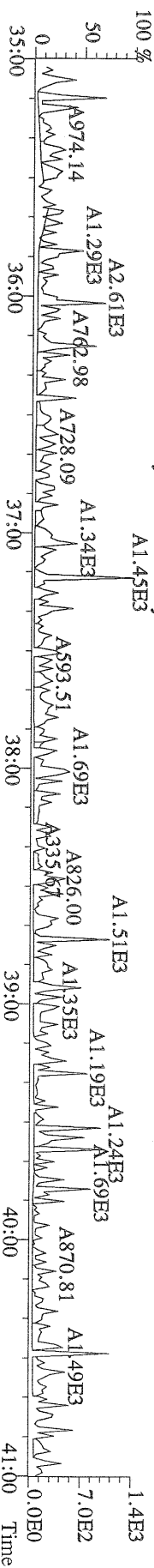
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383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



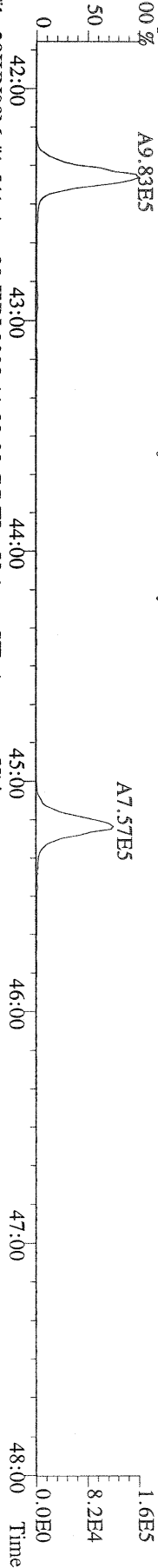
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



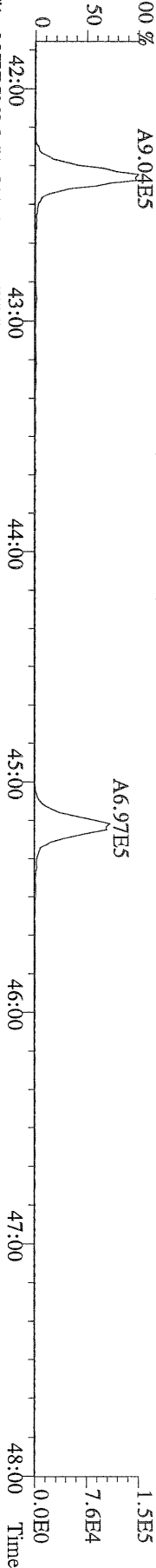
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



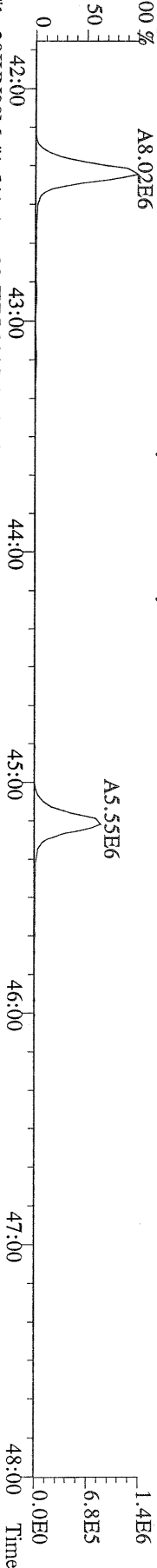
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407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



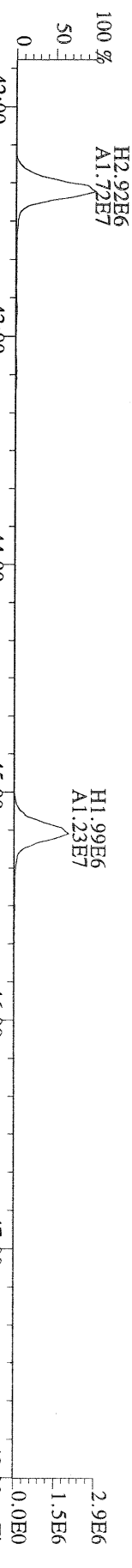
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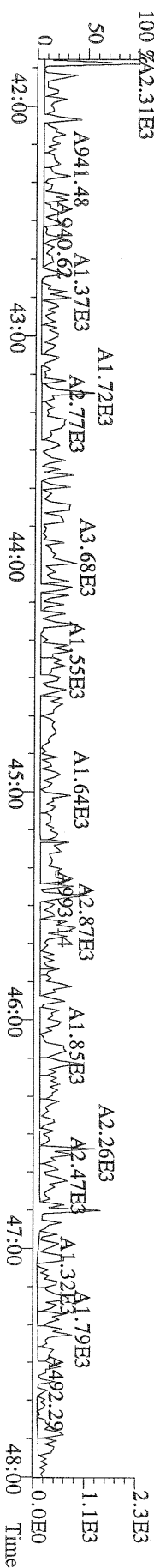
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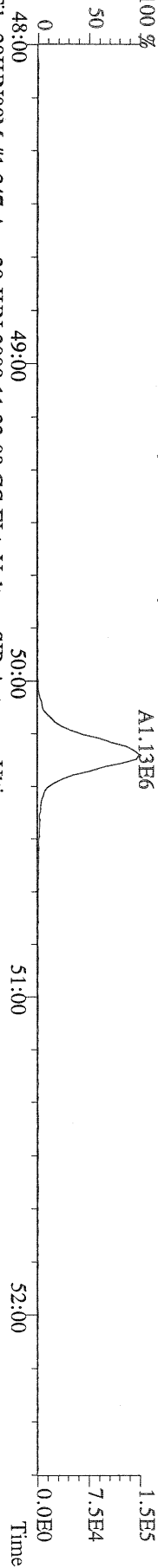
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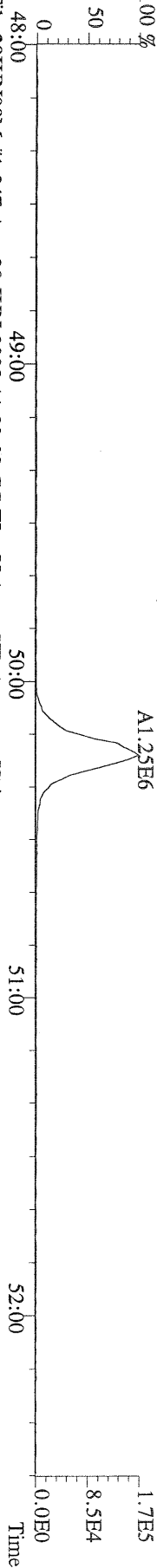
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



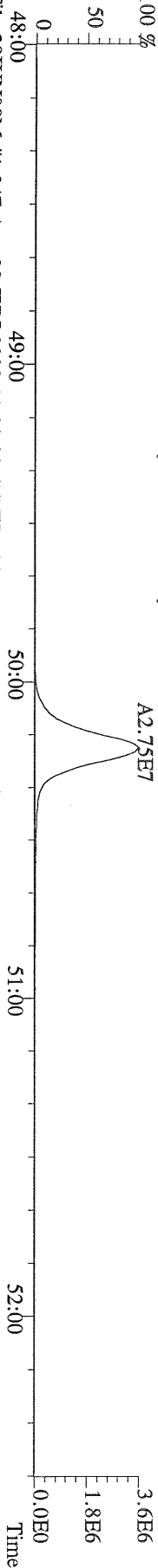
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441.7428 S.3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



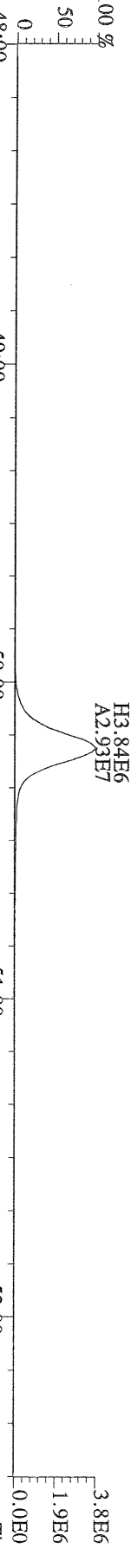
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



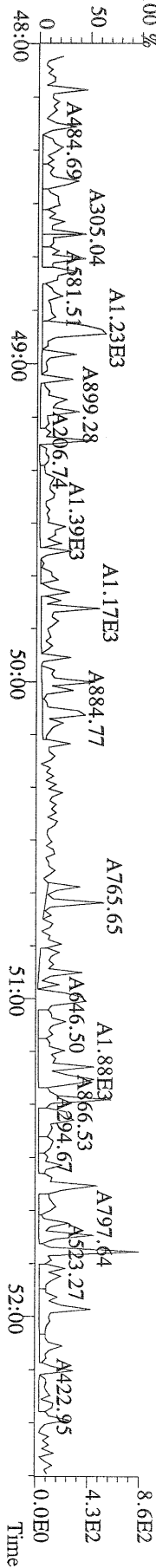
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Sample Text:ST062909M2 File Text:Frontier Analytical Laboratory



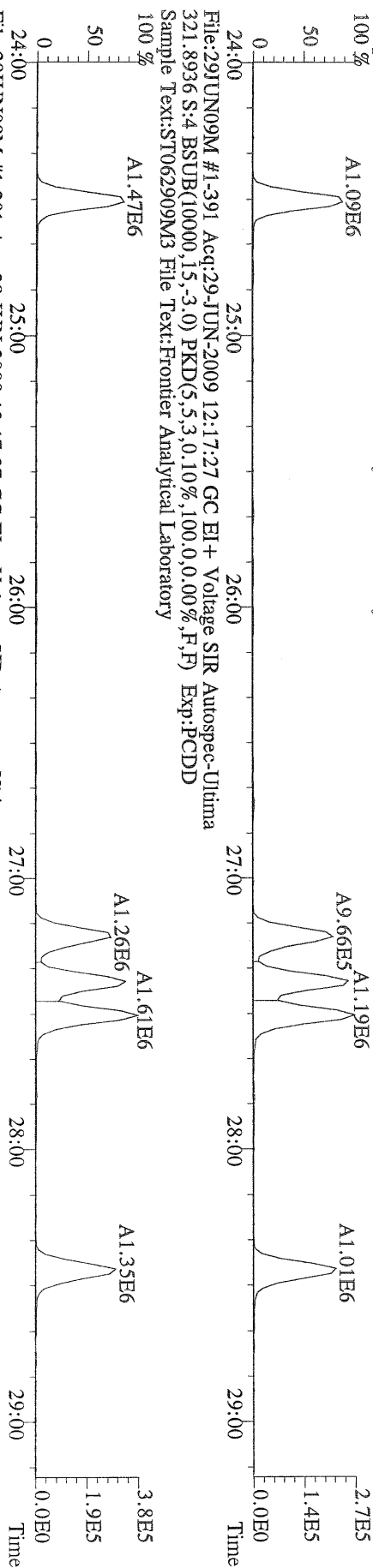
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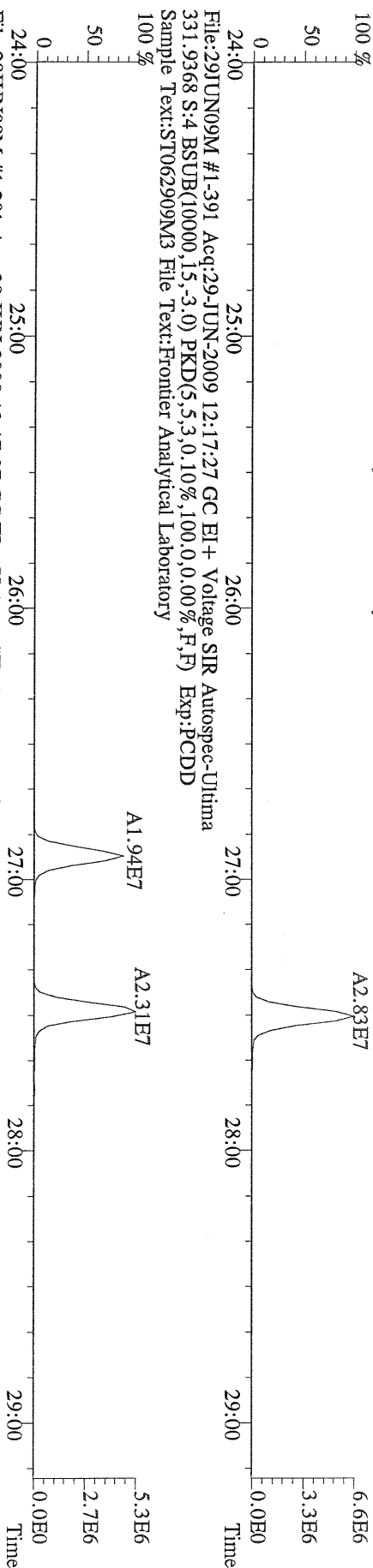
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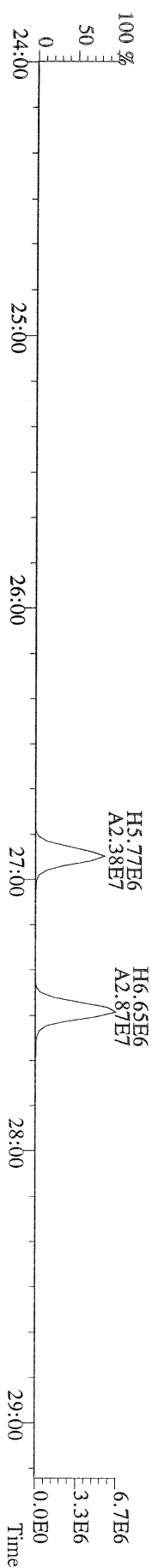
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319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



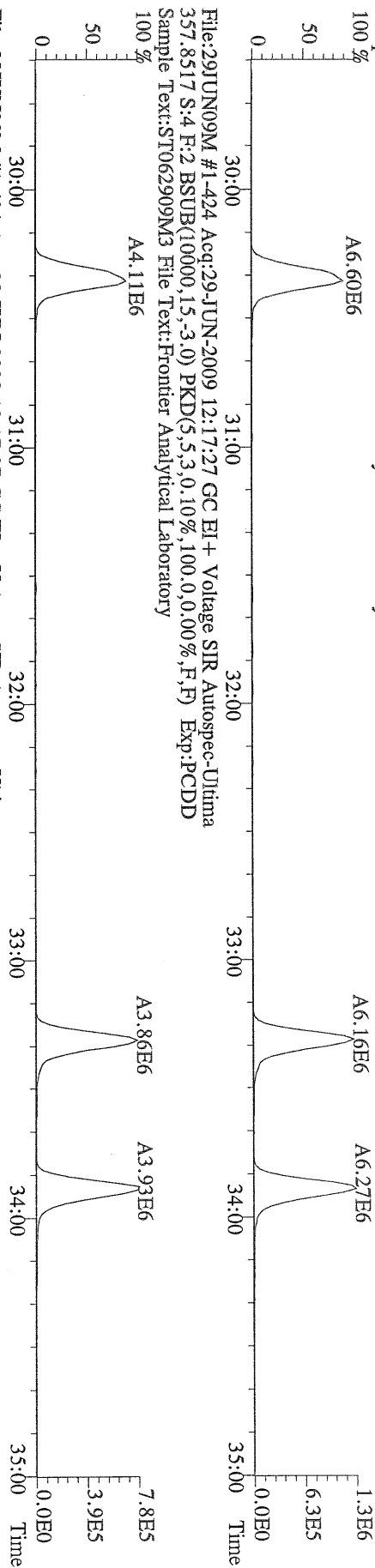
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



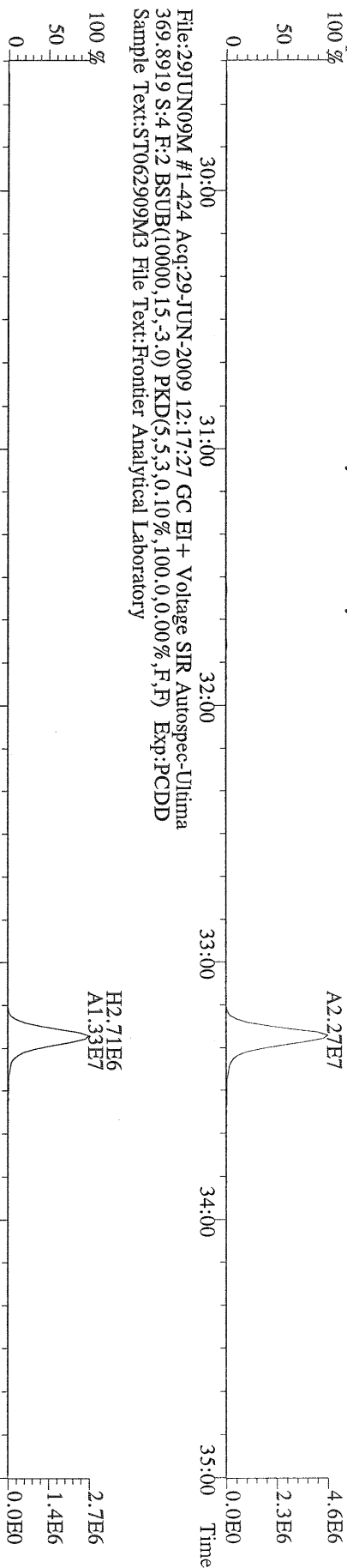
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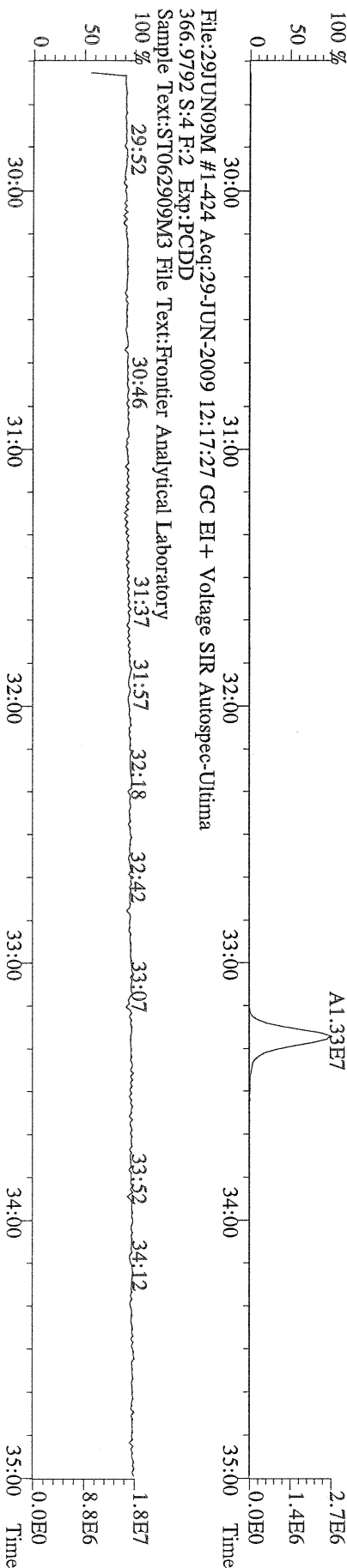
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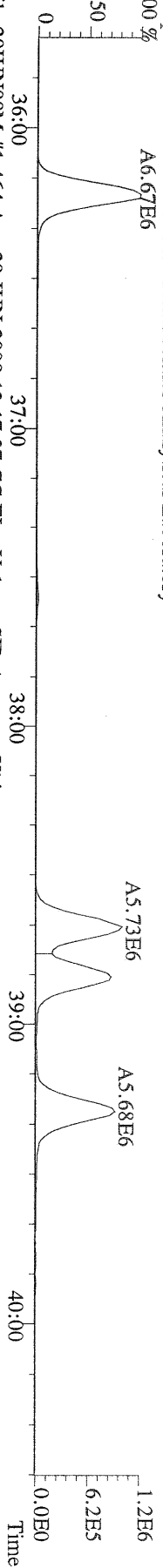
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



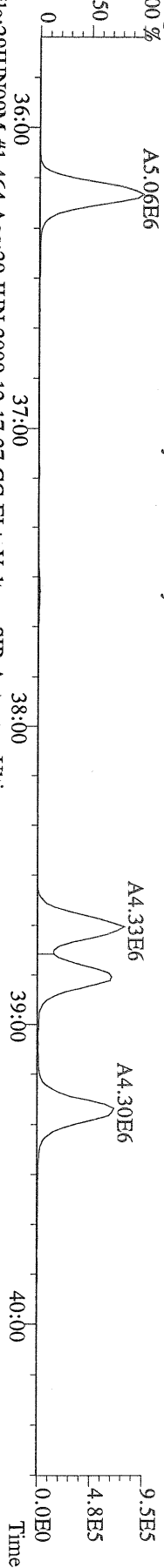
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369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



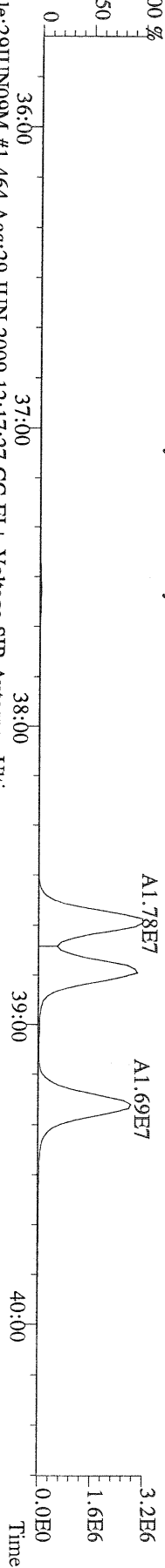
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389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



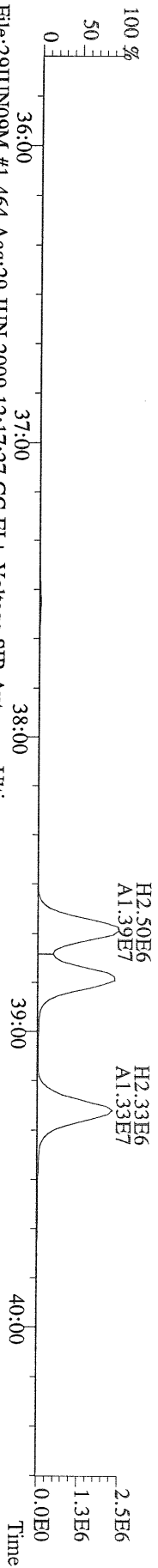
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



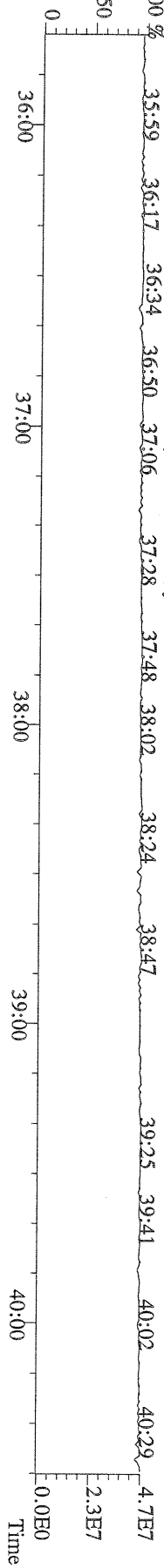
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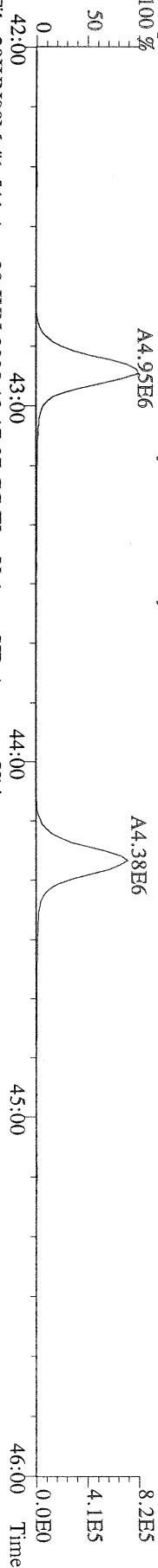
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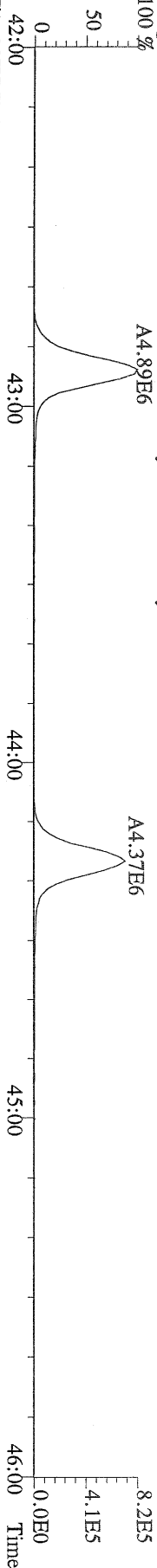
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380.9760 S:4 F:3 Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



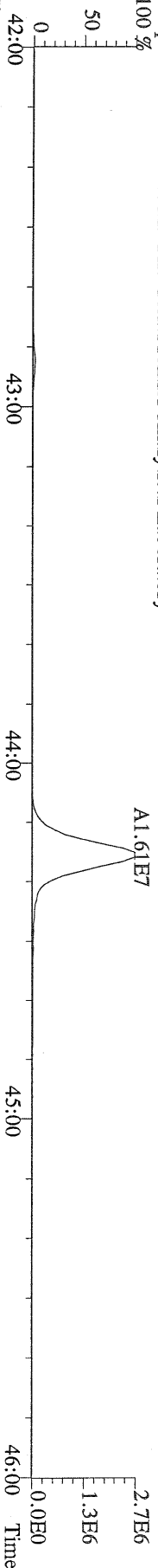
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423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



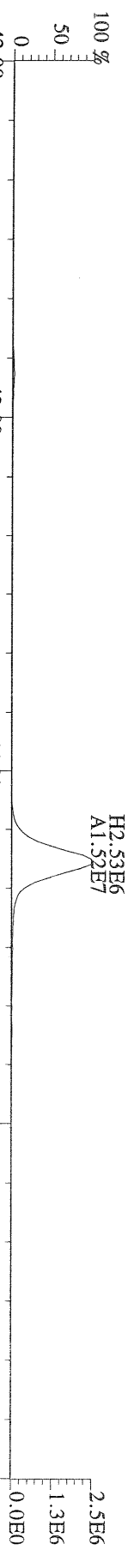
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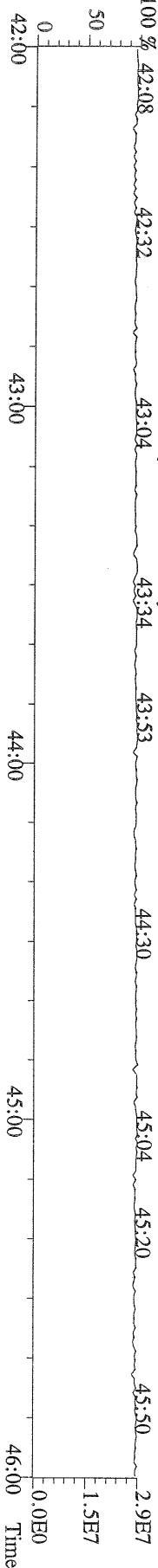
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435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



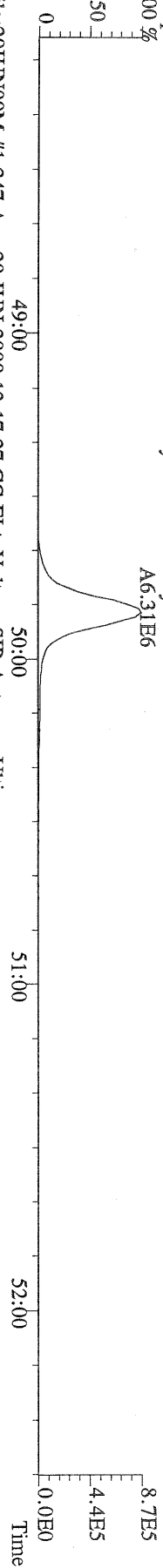
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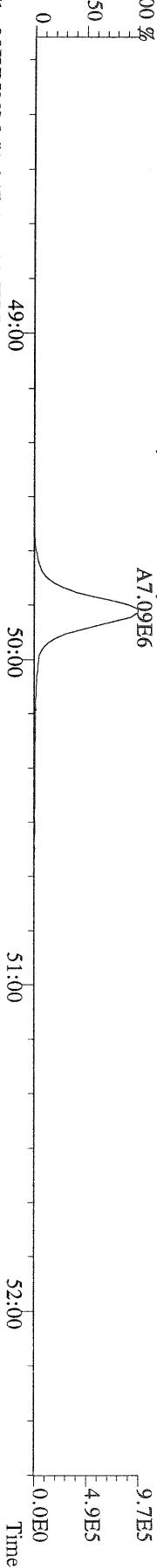
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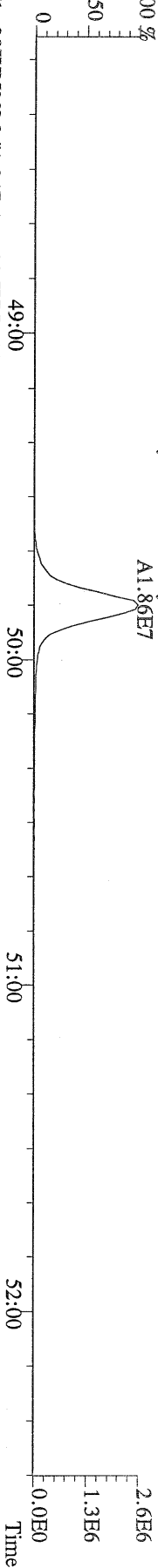
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457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



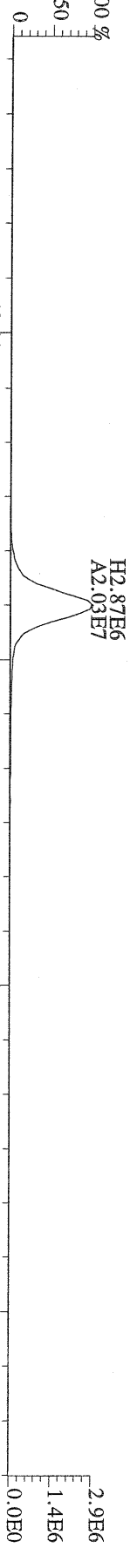
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



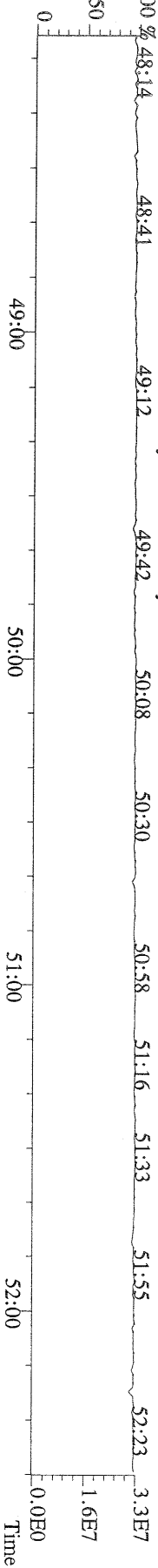
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469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



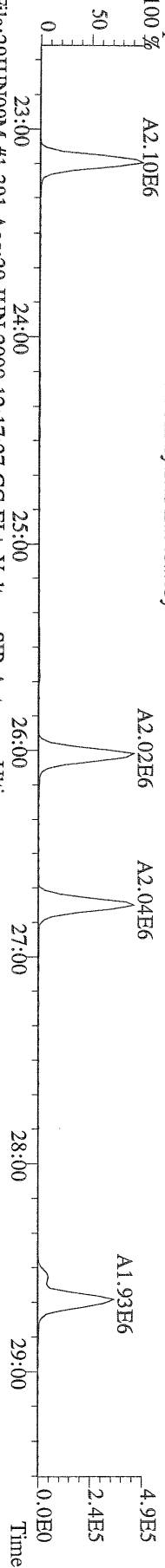
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



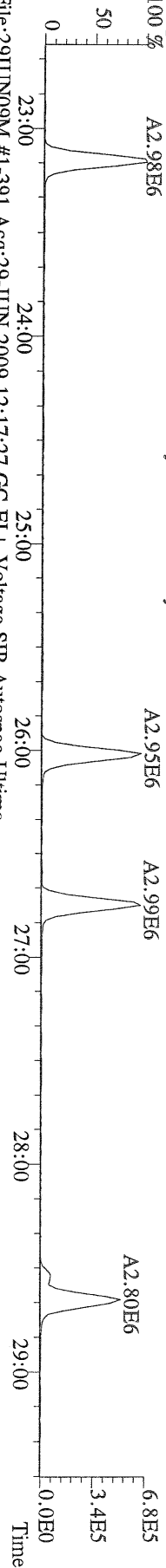
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454.9728 S:4 F:5 Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



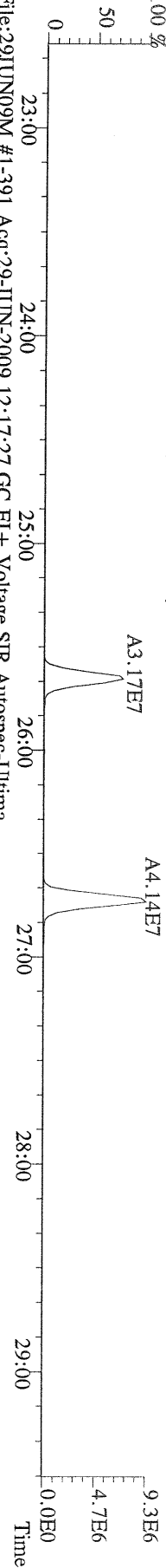
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



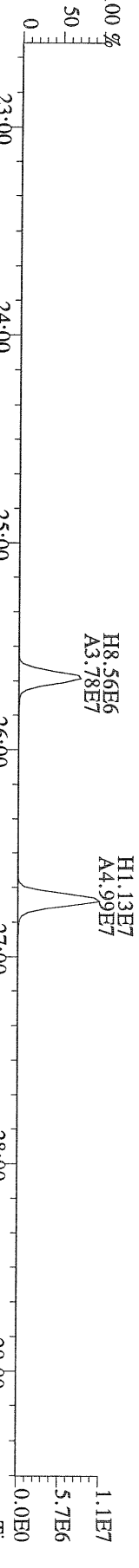
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305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



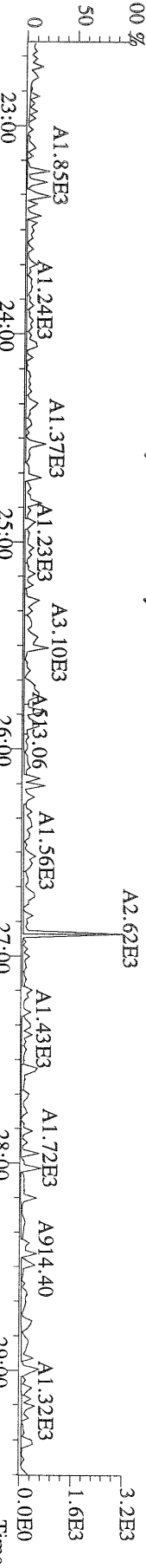
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



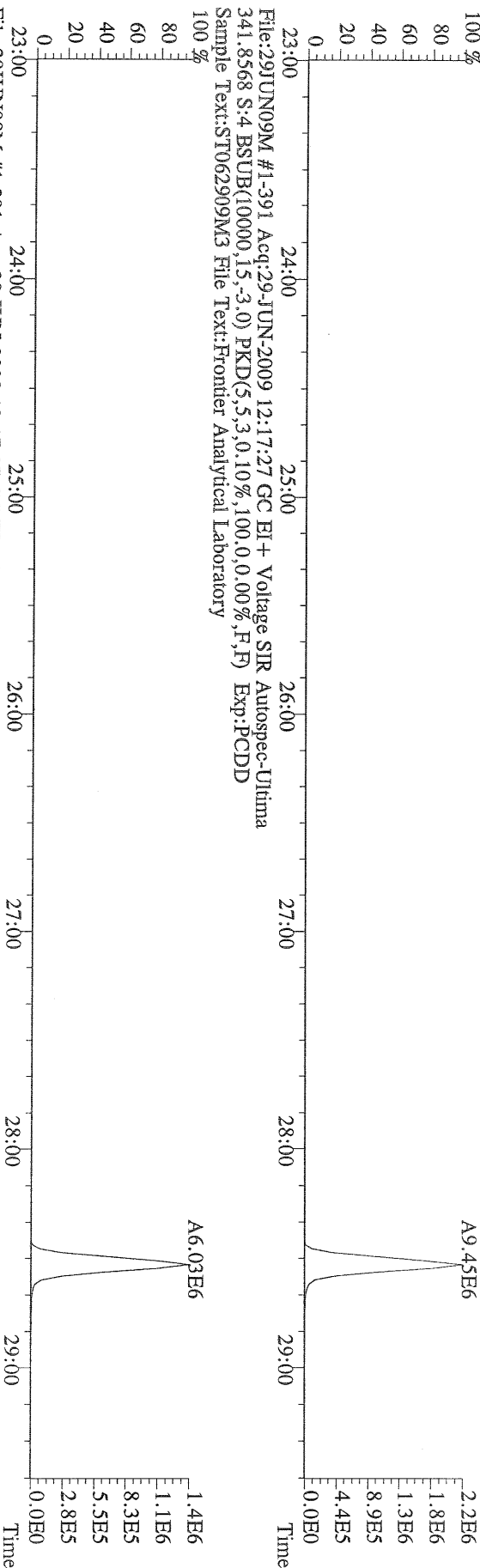
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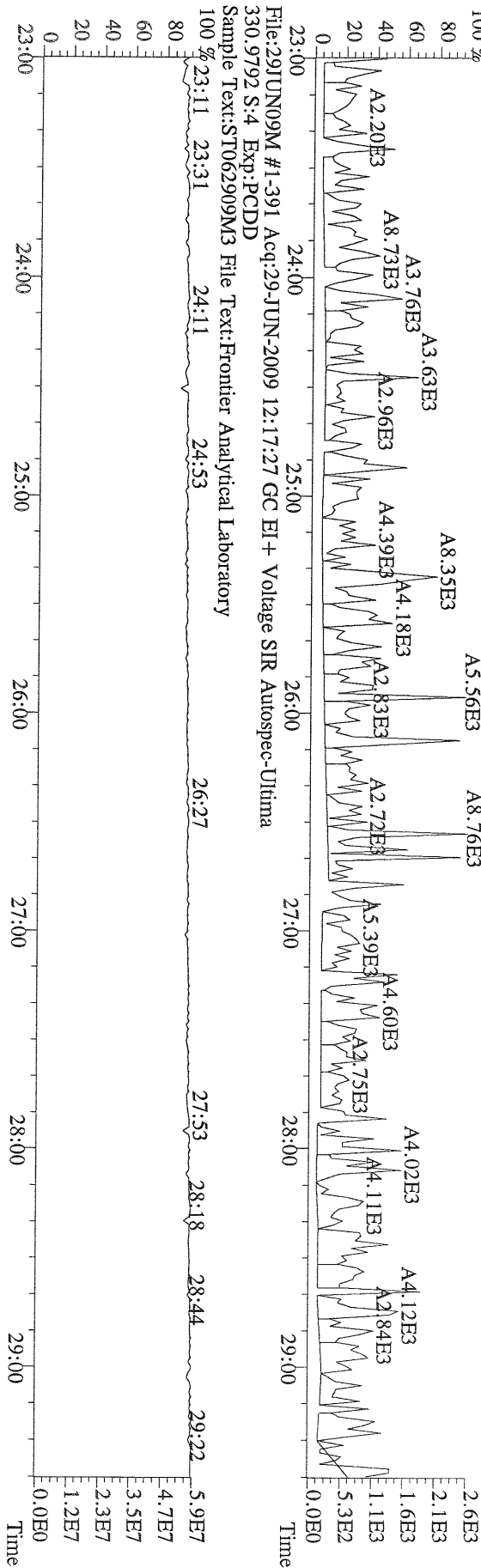
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



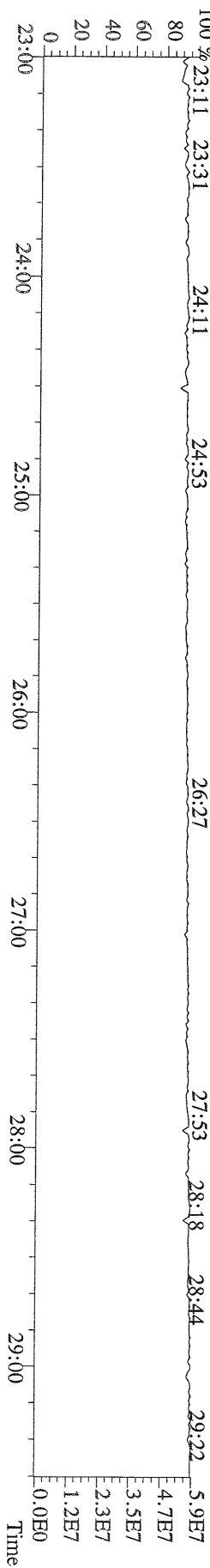
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339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Fronter Analytical Laboratory



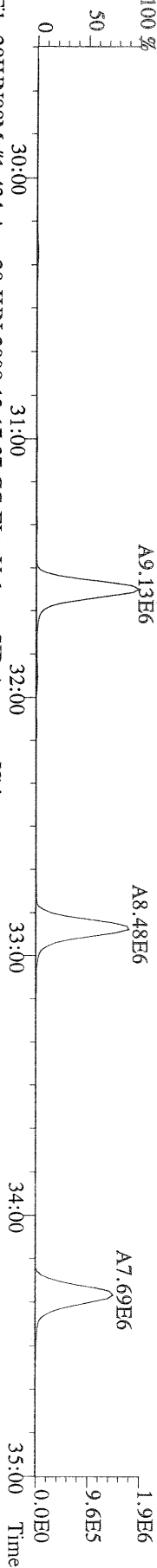
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409.7974 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Fronter Analytical Laboratory



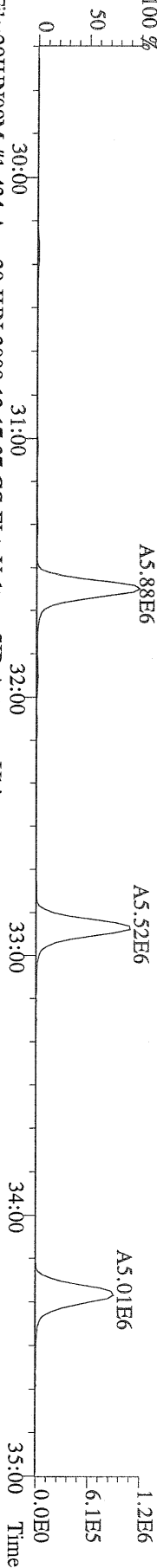
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330.9792 S:4 Exp:PCDD
Sample Text:ST062909M3 File Text:Fronter Analytical Laboratory



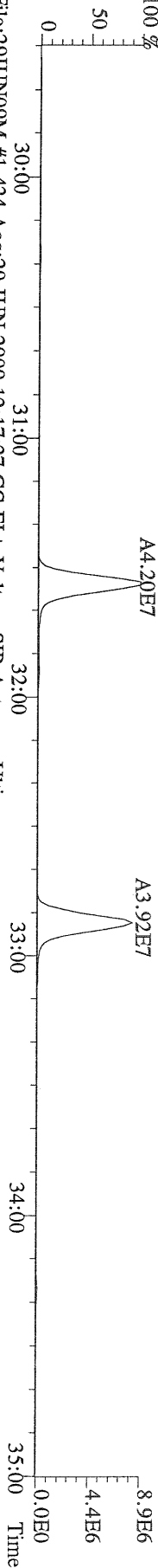
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



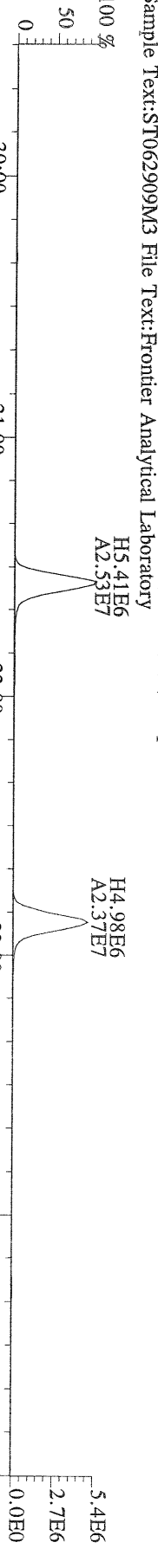
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341.8568 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



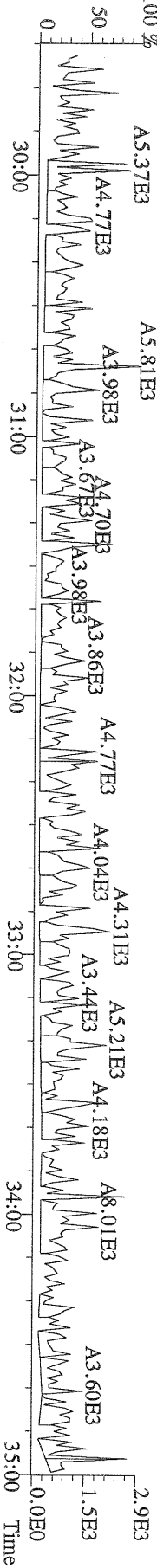
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



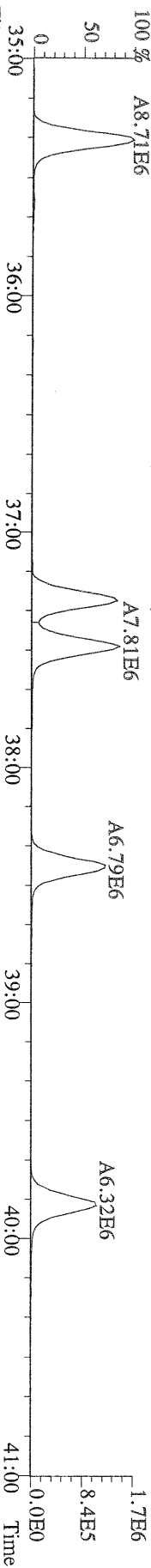
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



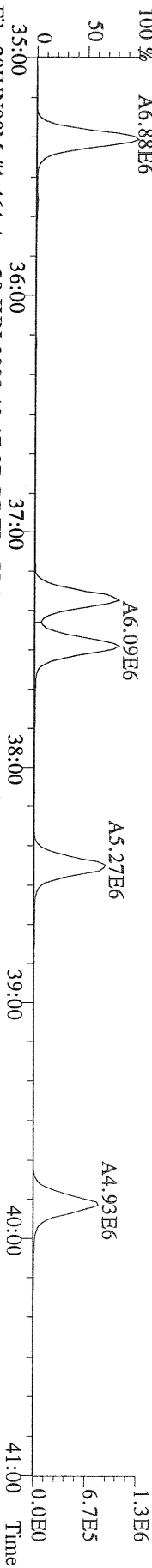
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409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



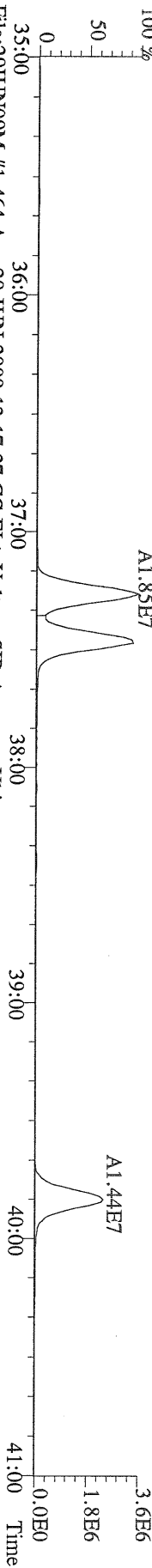
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373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



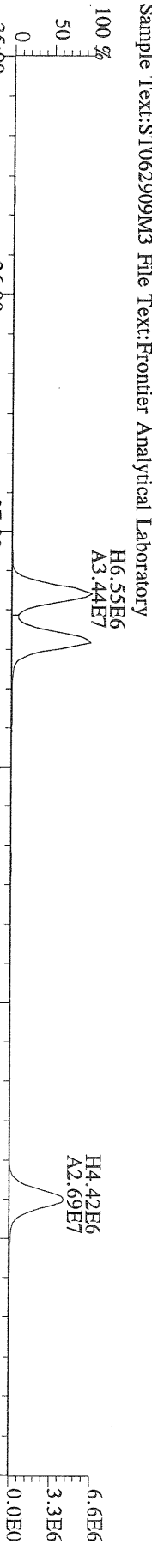
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375.8178 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



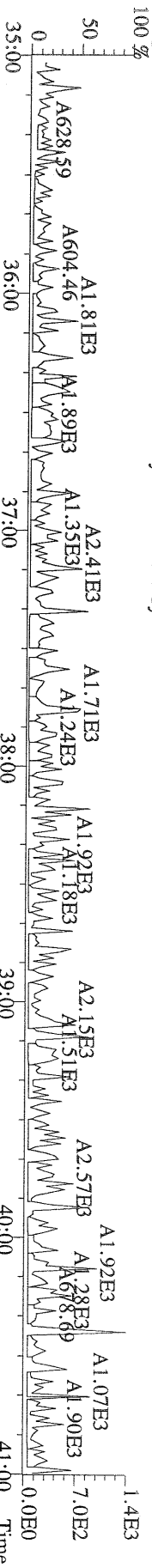
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383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



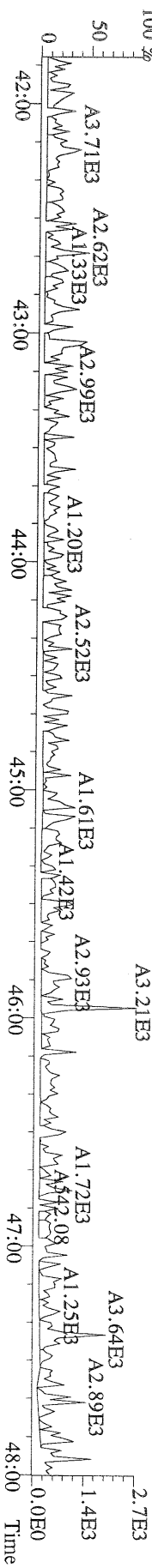
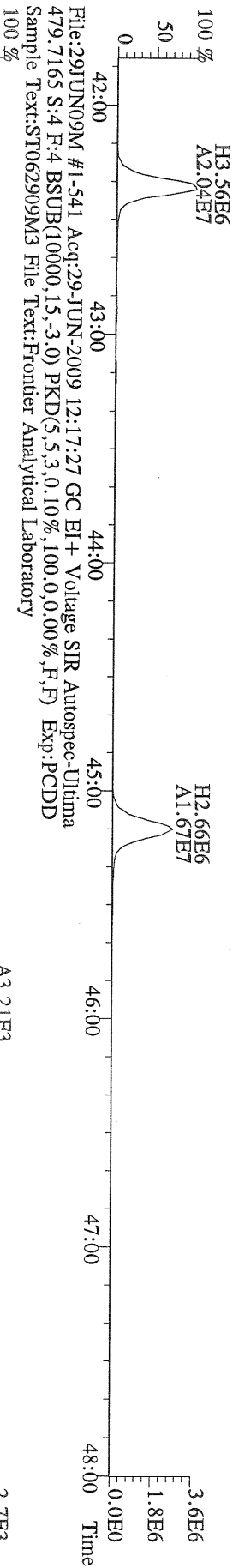
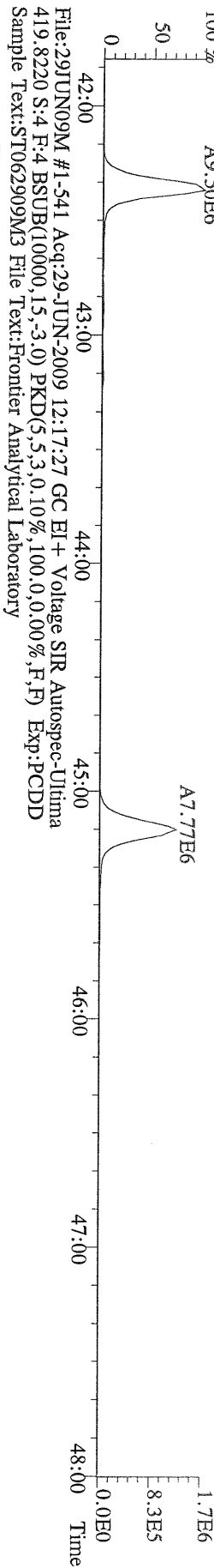
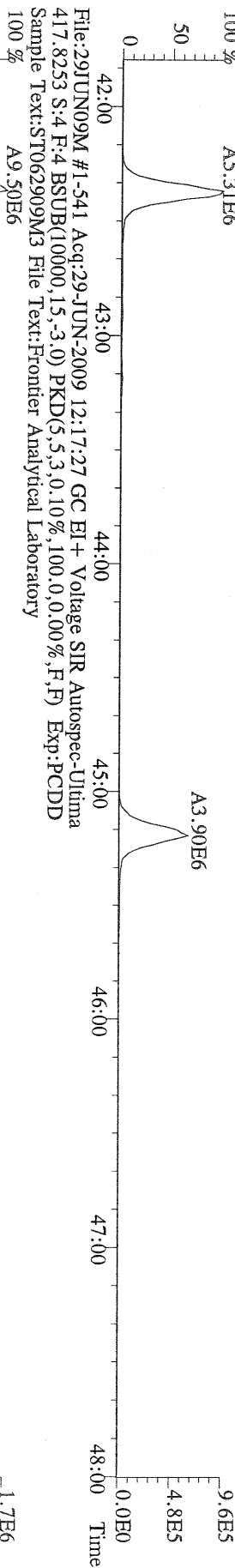
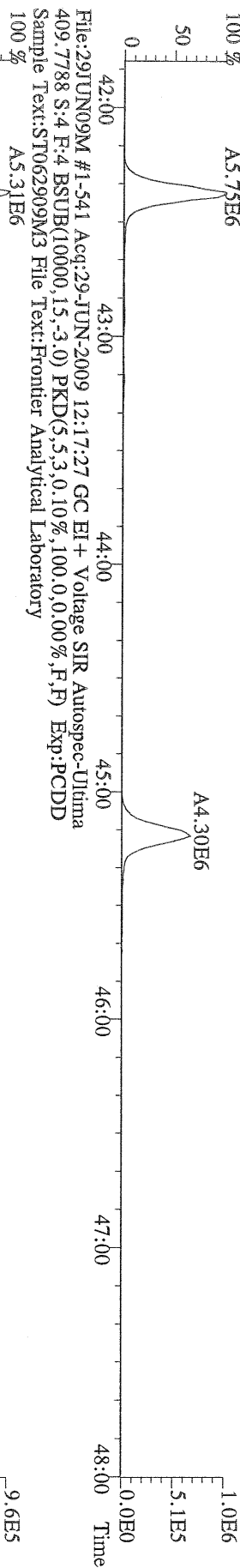
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385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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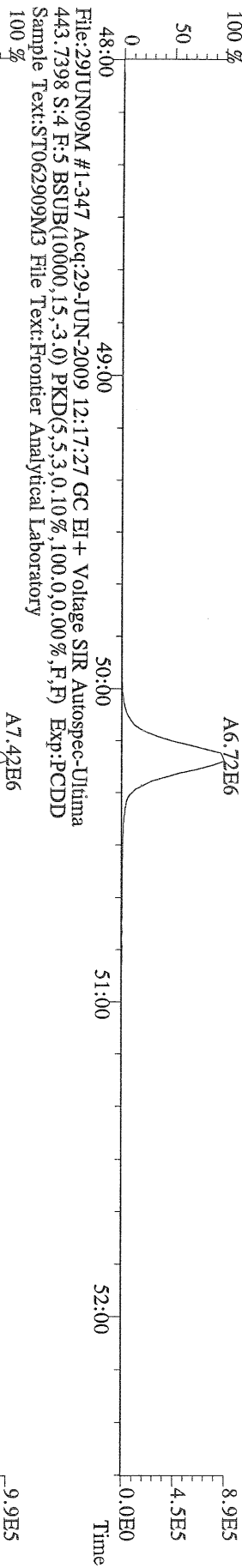
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



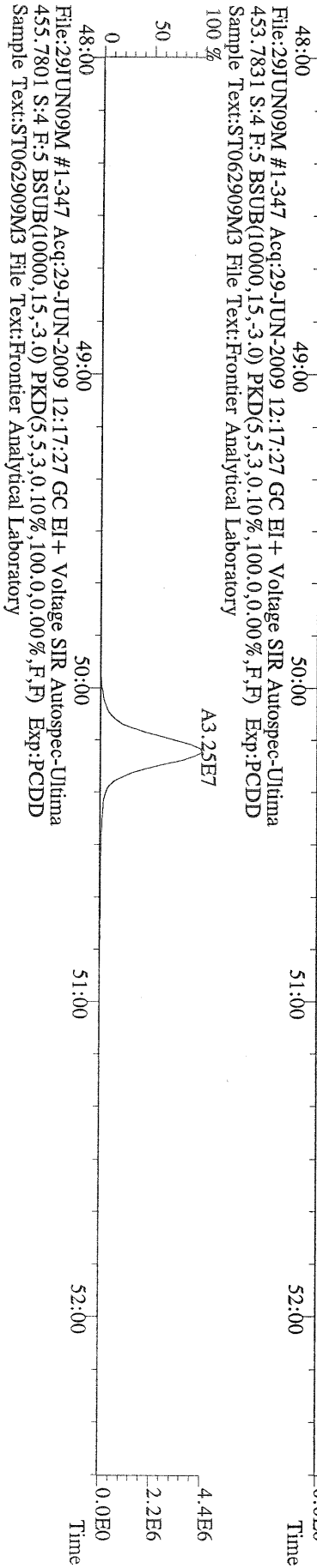
File:29JUN09M #1-541 Acq:29-JUN-2009 12:17:27 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



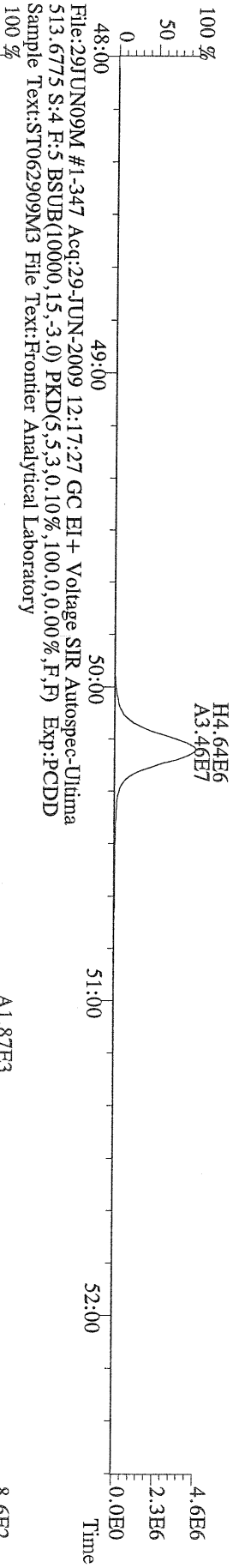
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441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



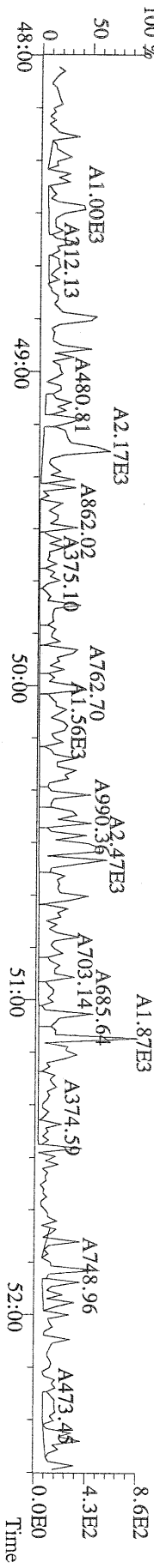
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



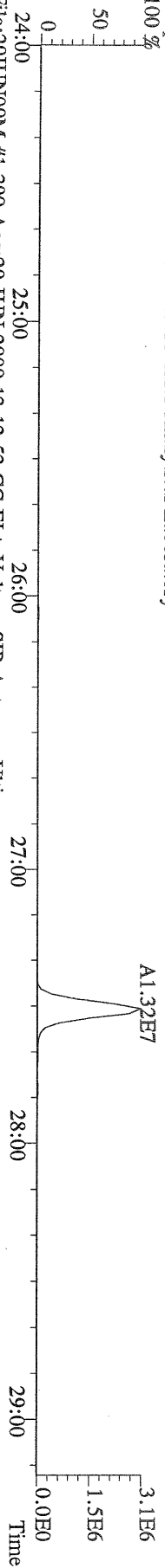
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Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



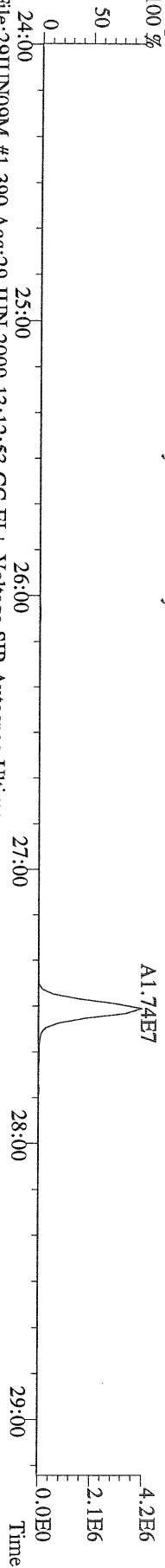
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513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M3 File Text:Frontier Analytical Laboratory



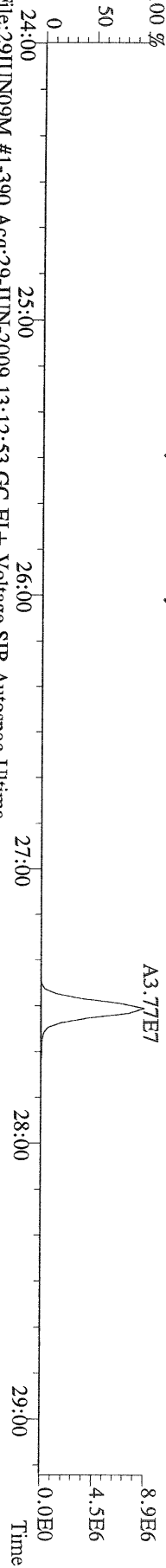
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319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory
100 %



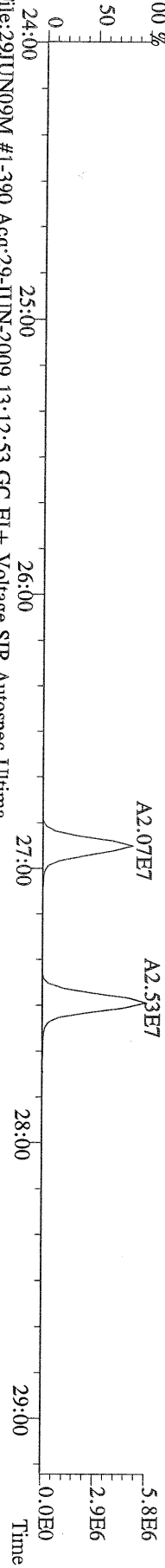
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Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory
100 %



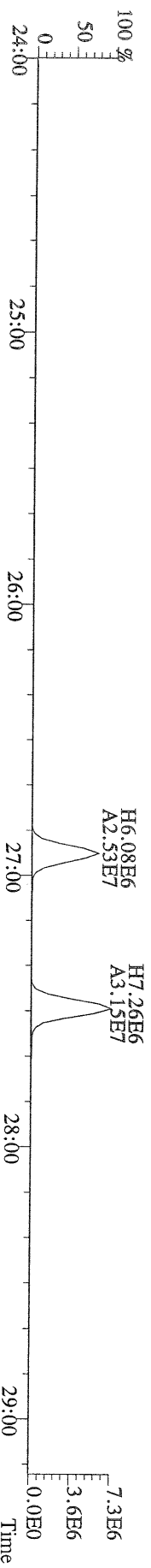
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327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory
100 %



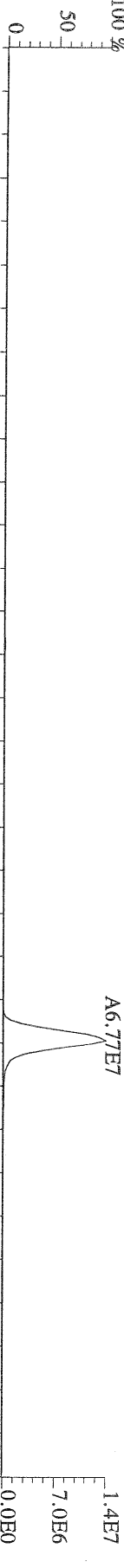
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331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory
100 %



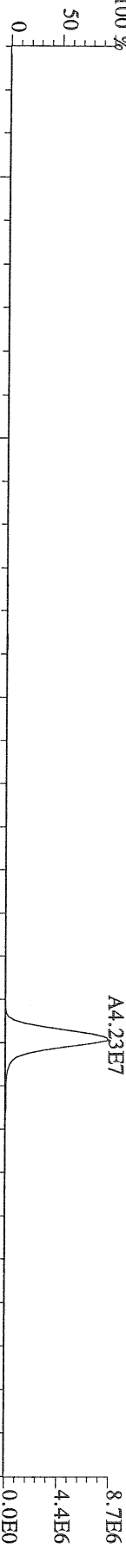
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333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



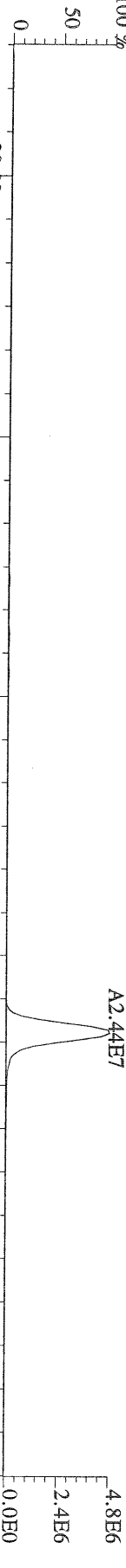
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355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory
100 %



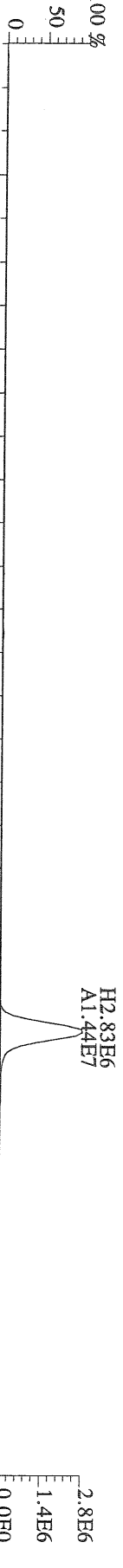
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357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory
100 %



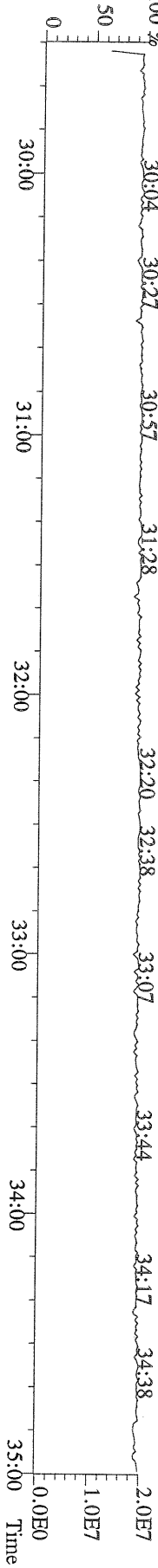
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367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory
100 %



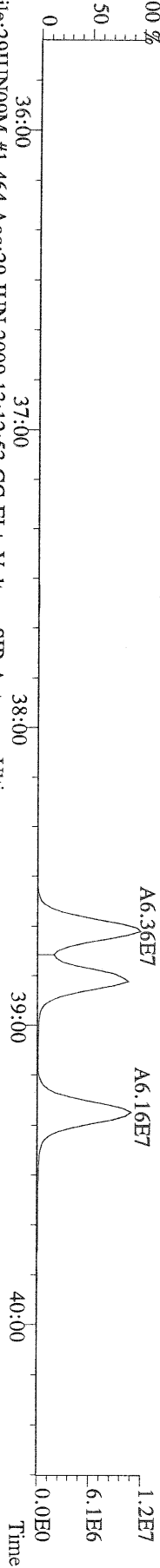
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369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



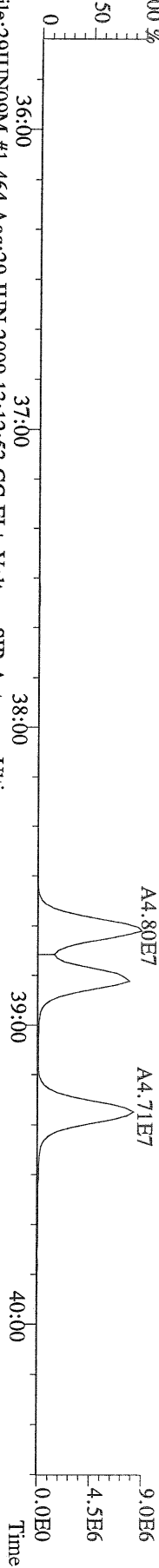
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366.9792 S:5 F:2 Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



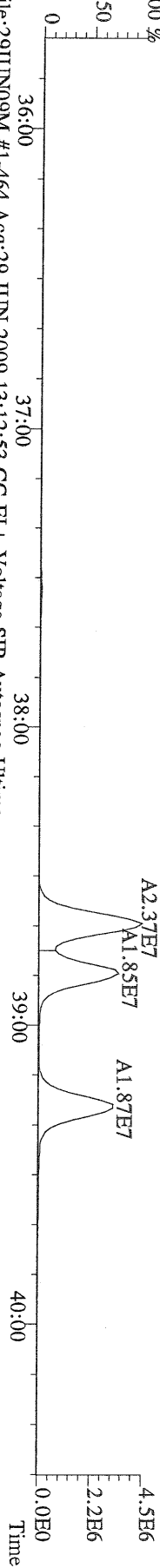
File:29JUN09M #1-464 Acq:29-JUN-2009 13:12:53 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



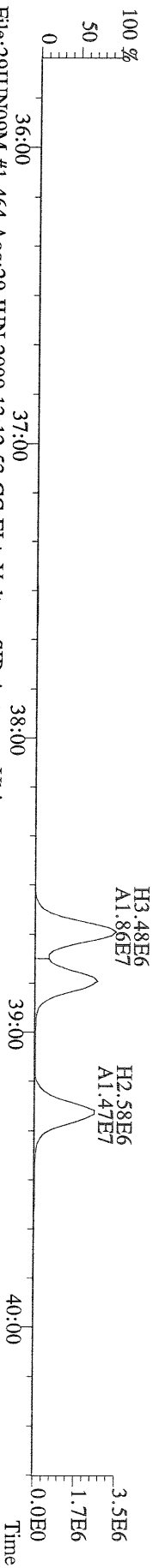
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391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



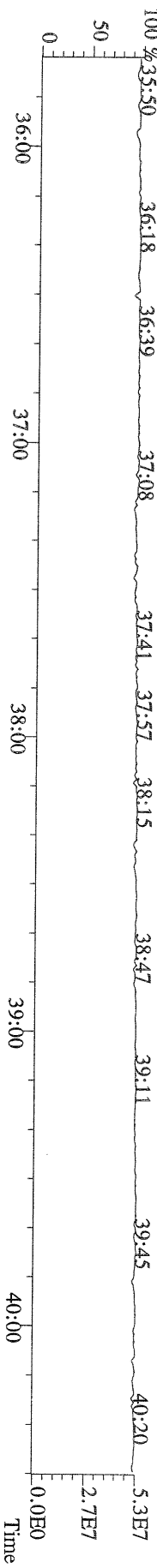
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401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



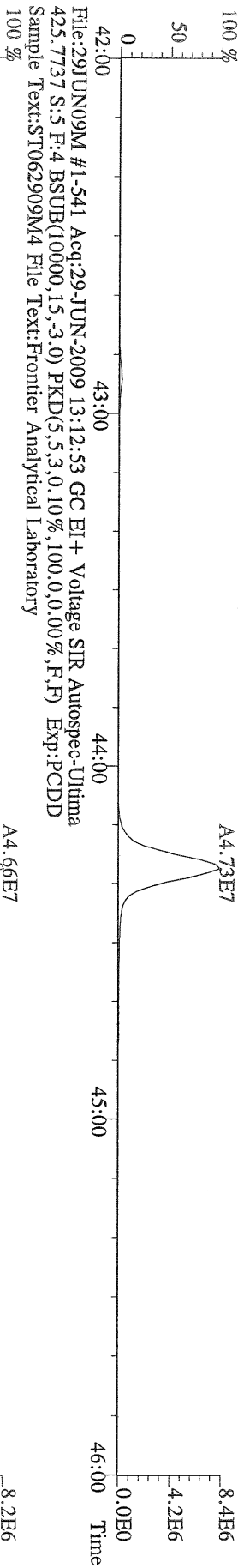
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403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



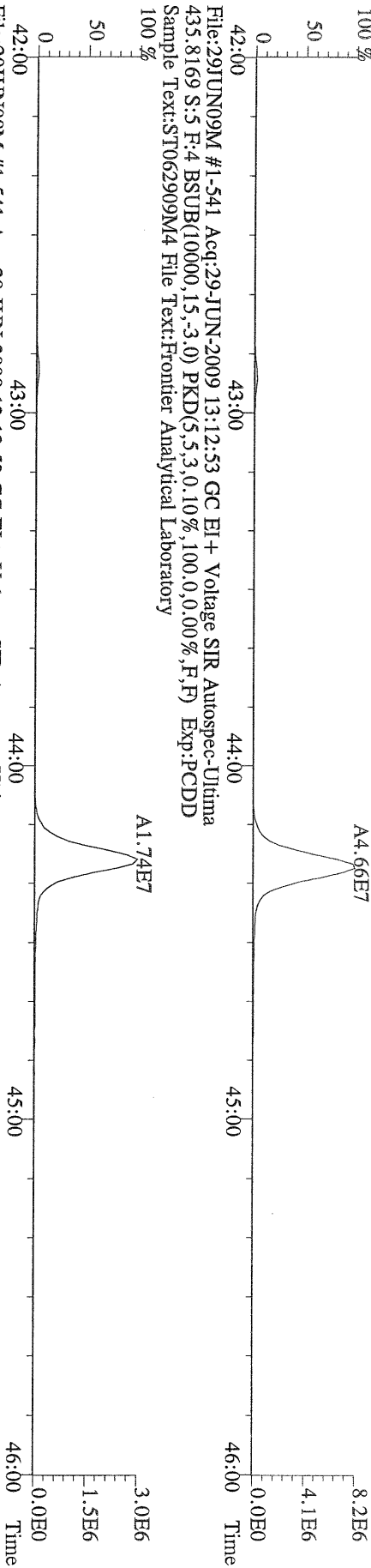
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380.9760 S:5 F:3 Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



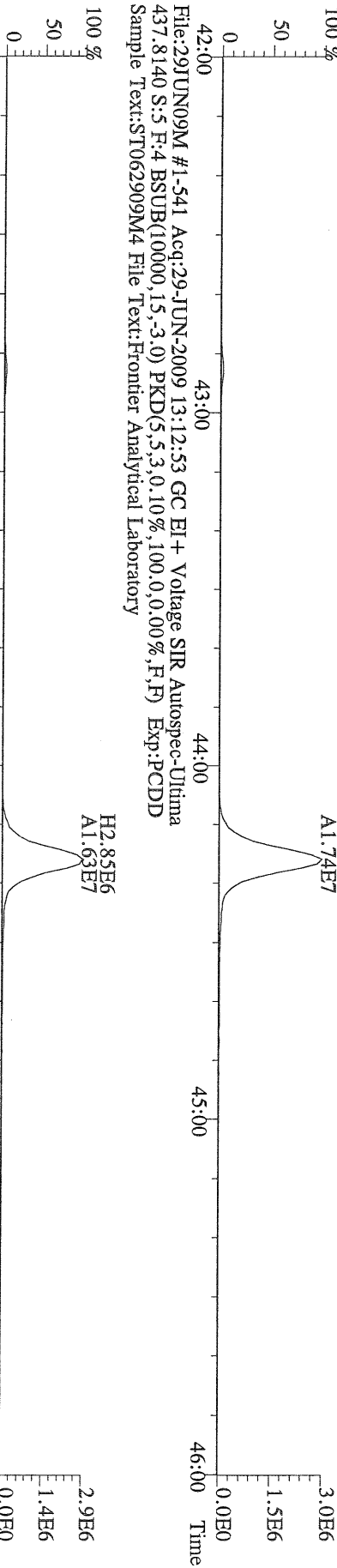
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423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



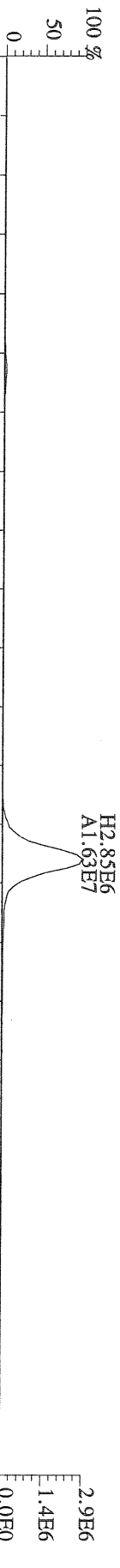
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425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



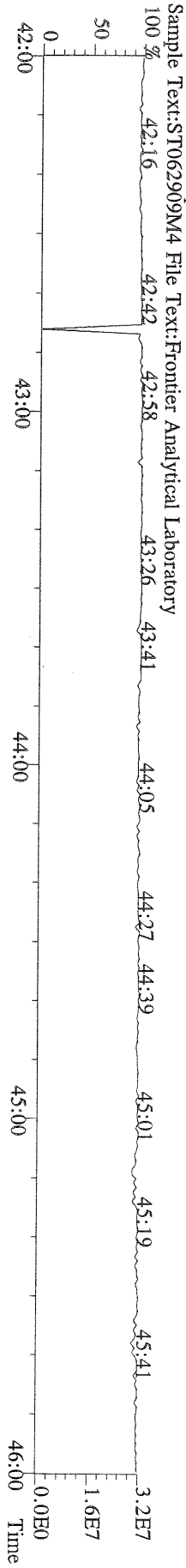
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435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



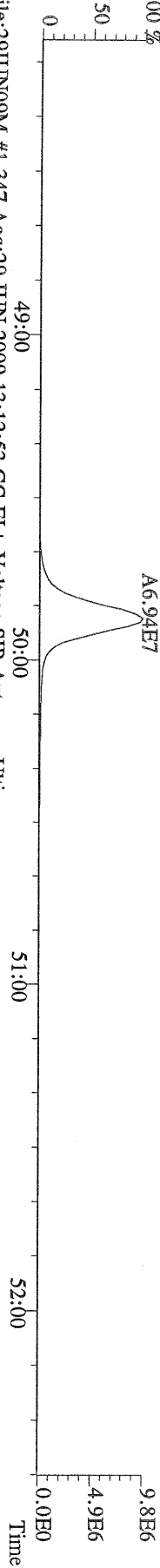
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437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



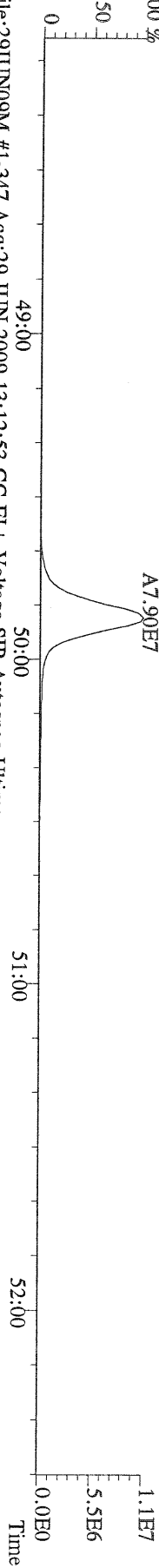
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430.9728 S:5 F:4 Exp:PCDD



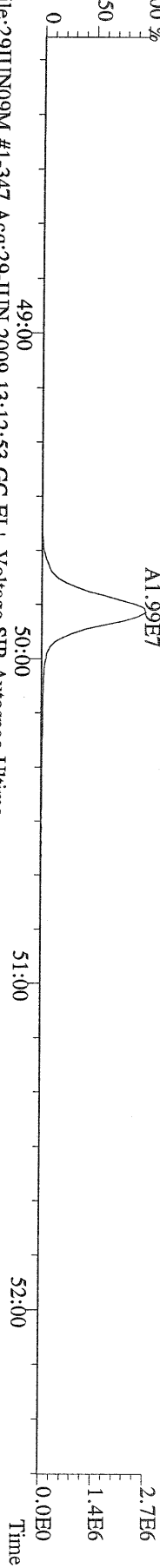
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457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



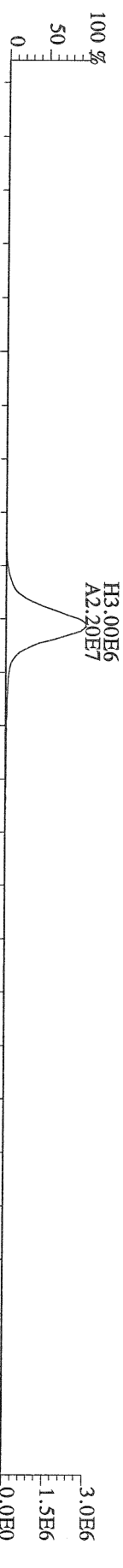
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Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



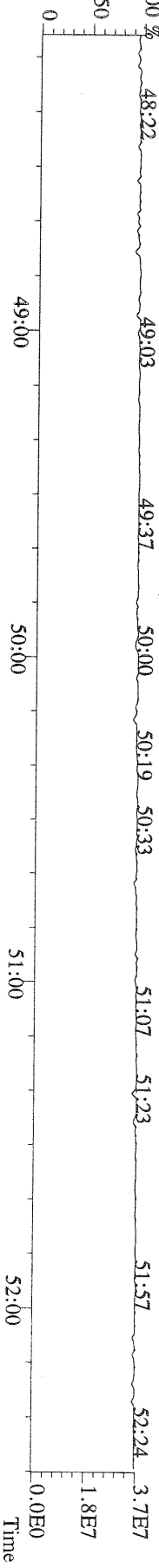
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Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



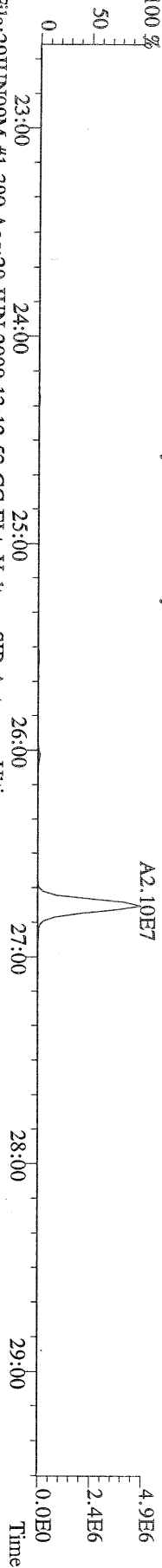
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471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



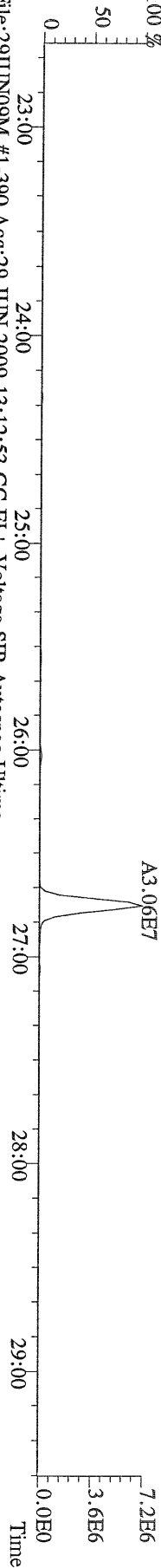
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454.9728 S:5 F:5 Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



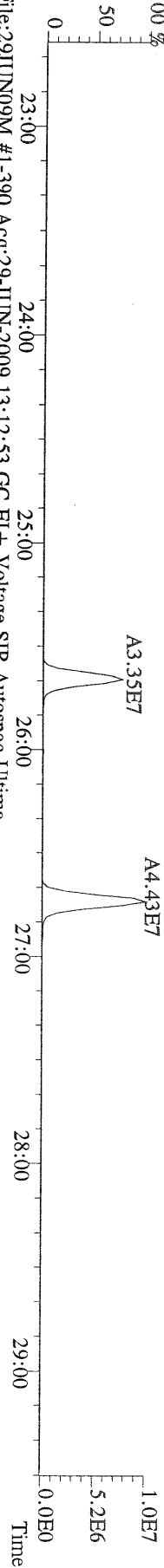
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303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



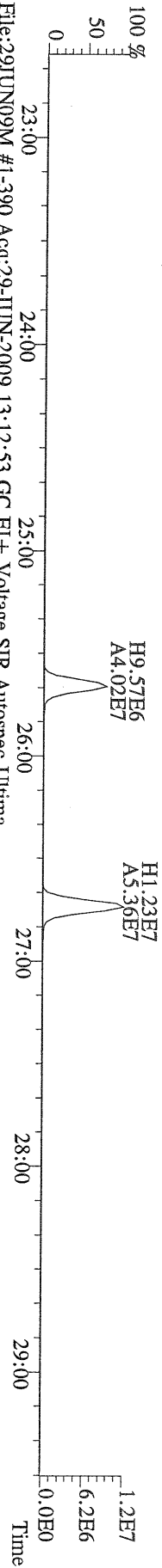
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305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



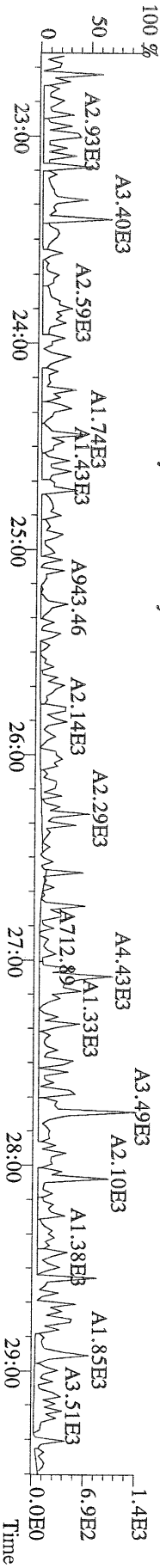
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315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



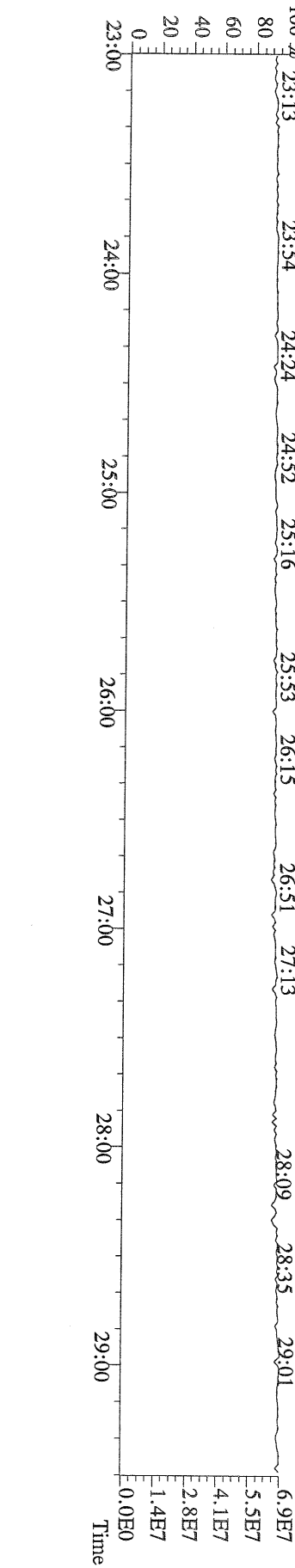
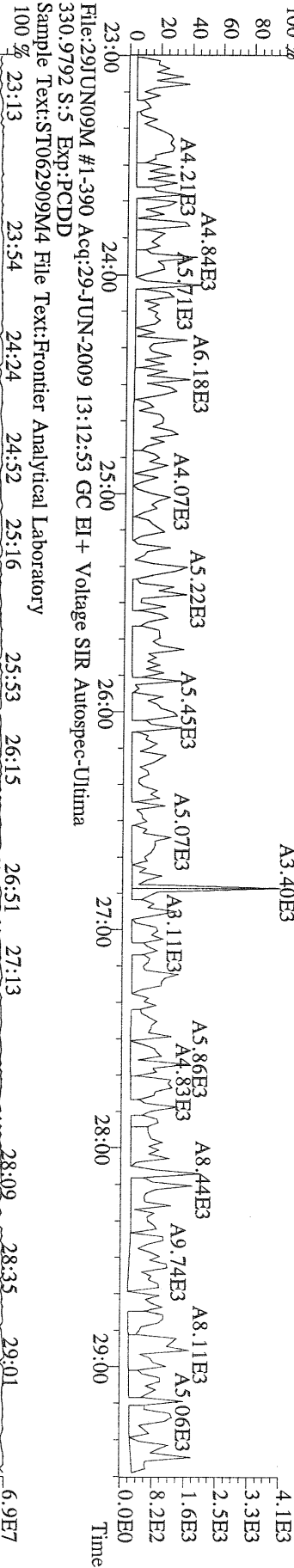
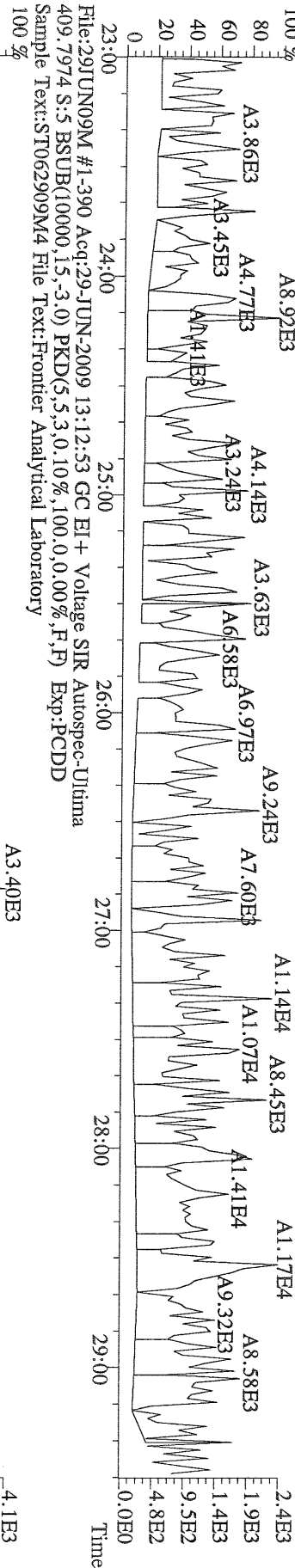
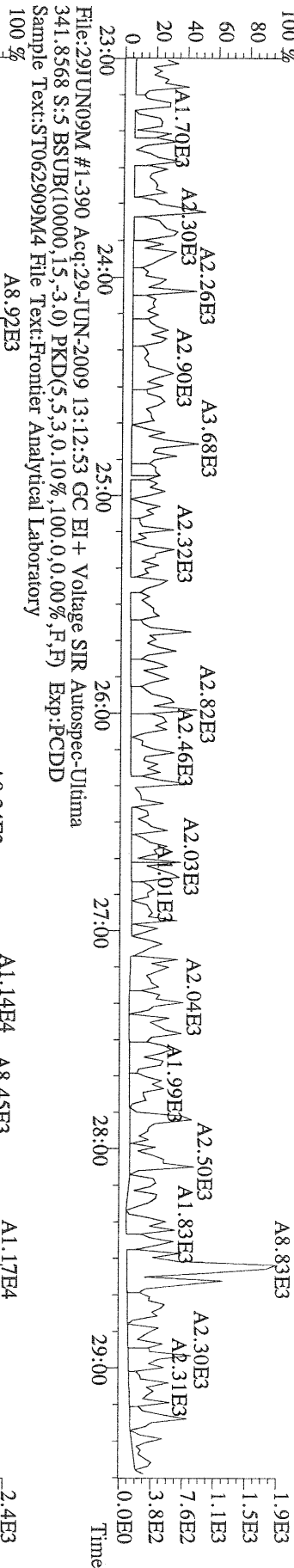
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317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



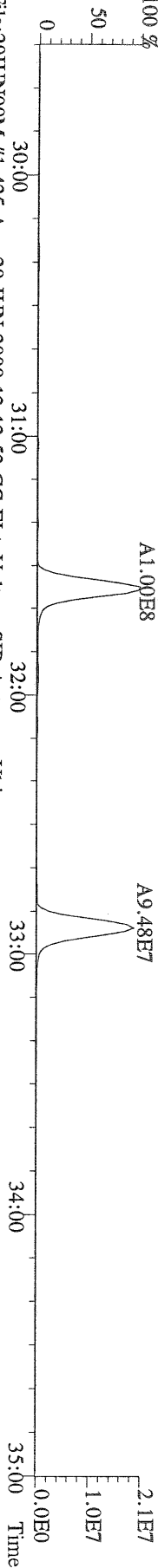
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375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



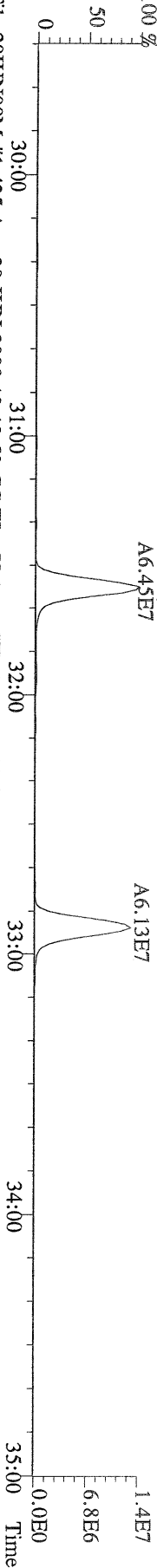
File:29JUN09M #1-390 Acq:29-JUN-2009 13:12:53 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory
100 %



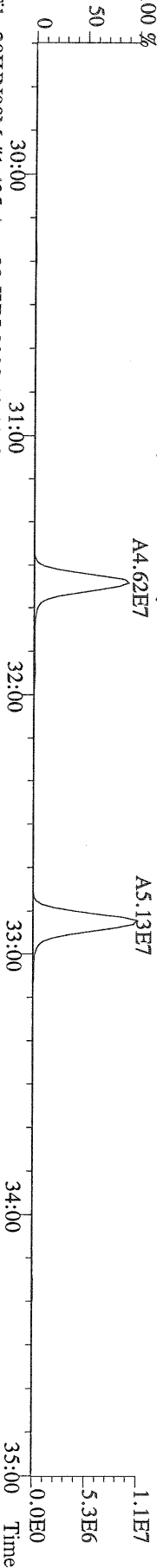
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339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



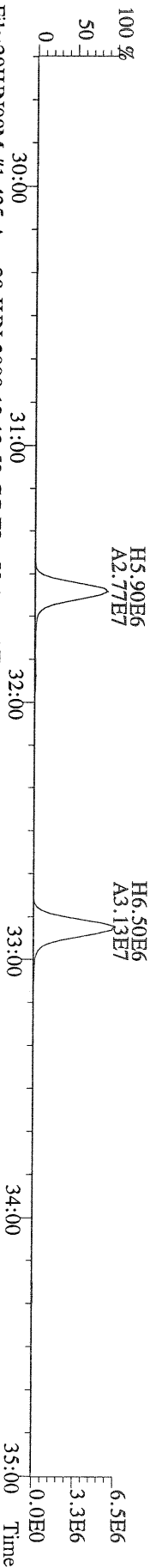
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341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



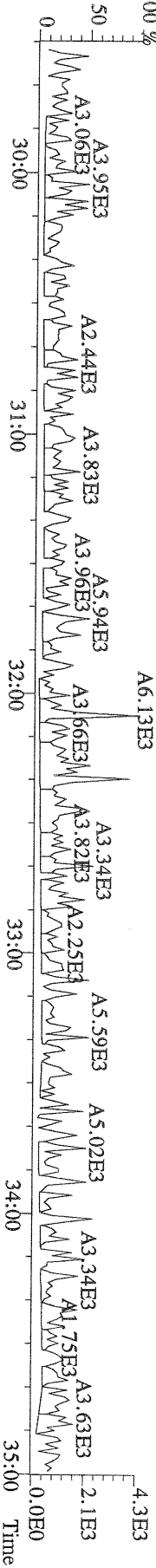
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351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



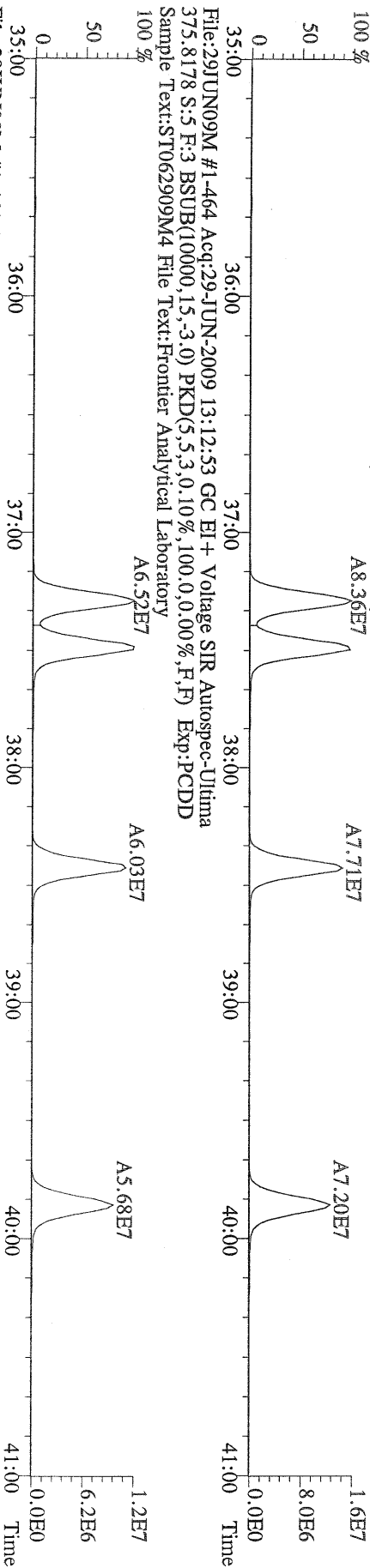
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Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



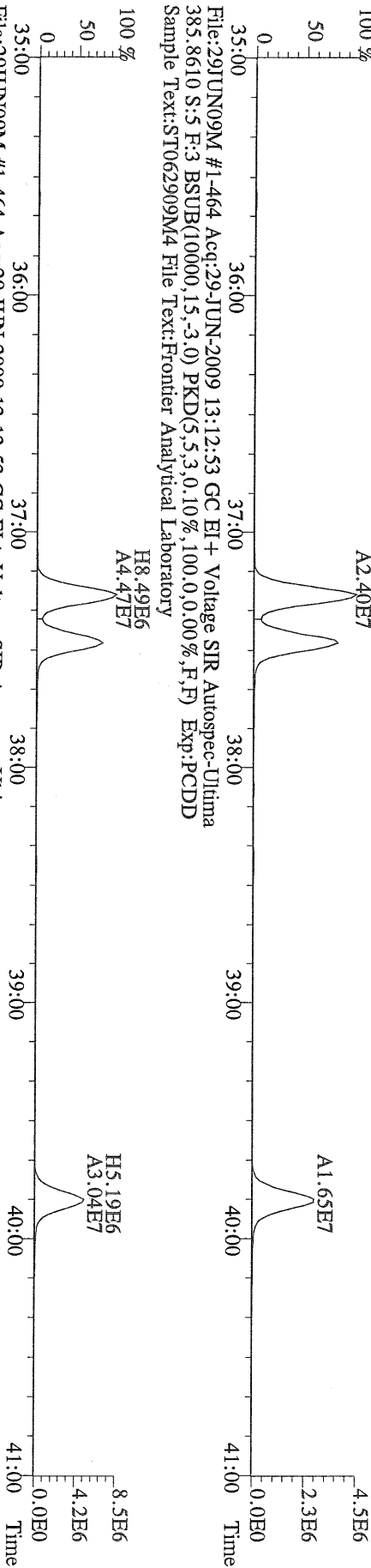
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409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



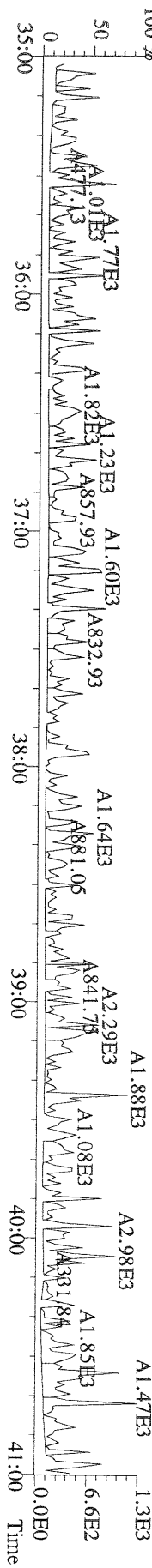
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373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



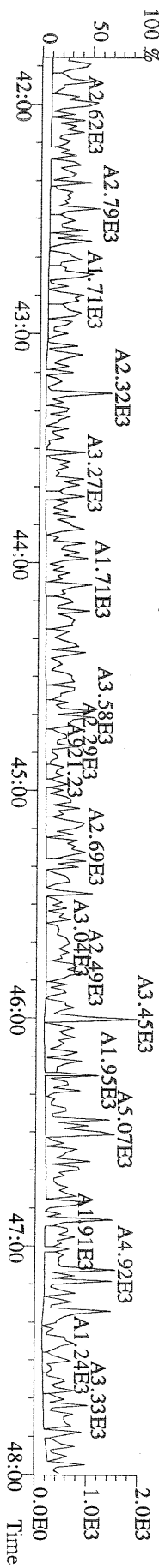
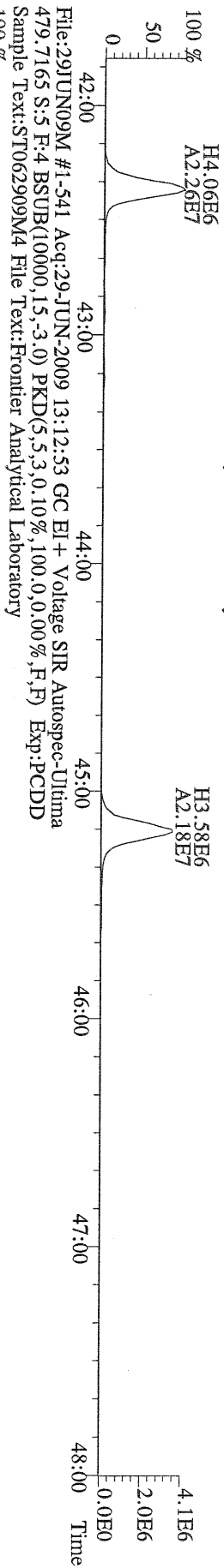
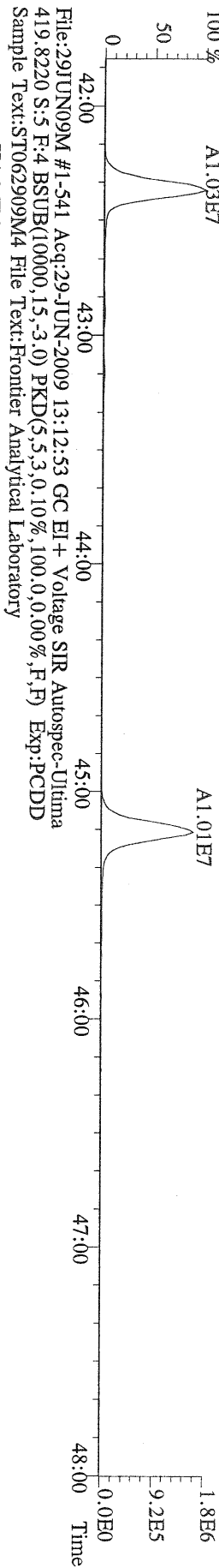
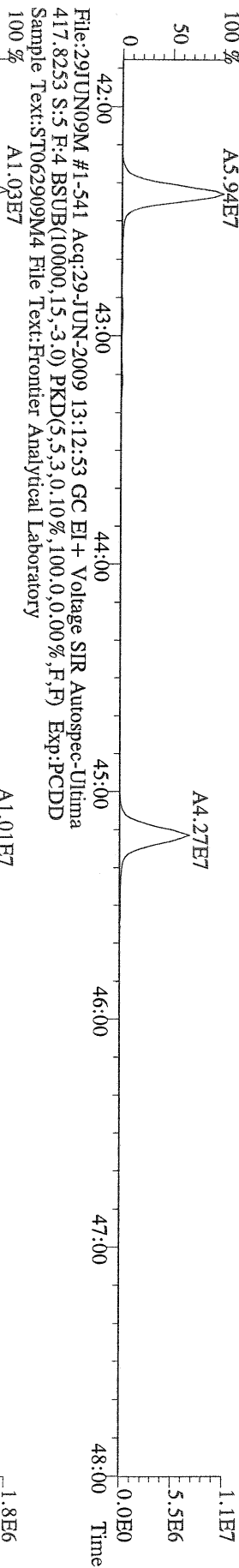
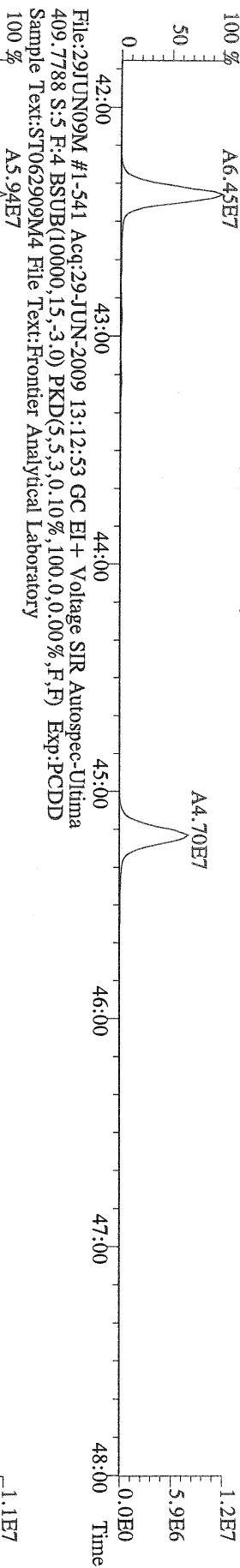
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383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



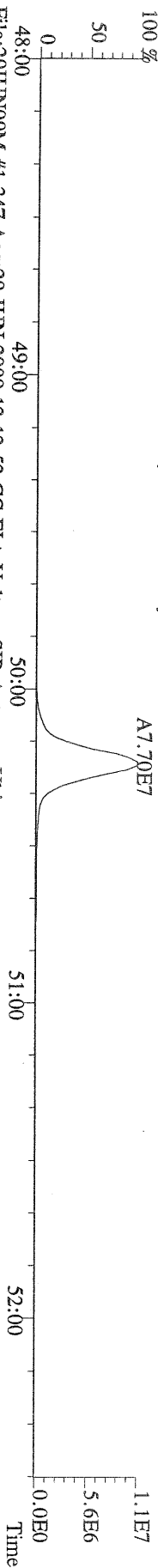
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445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



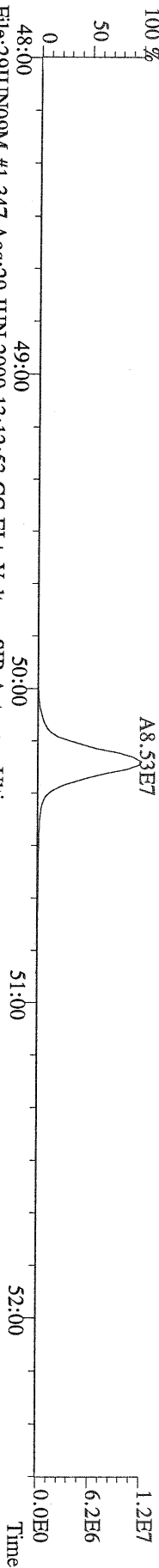
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407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



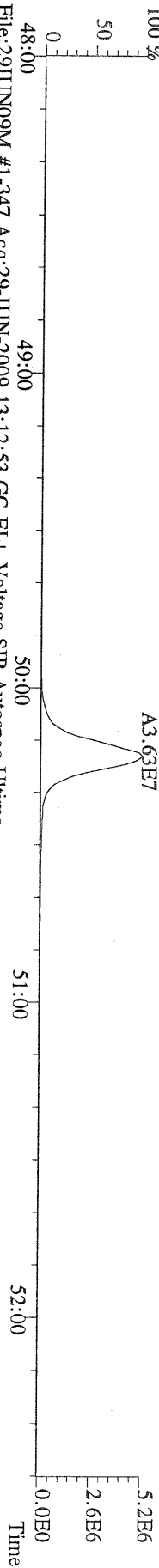
File:29JUN09M #1-347 Acq:29-JUN-2009 13:12:53 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



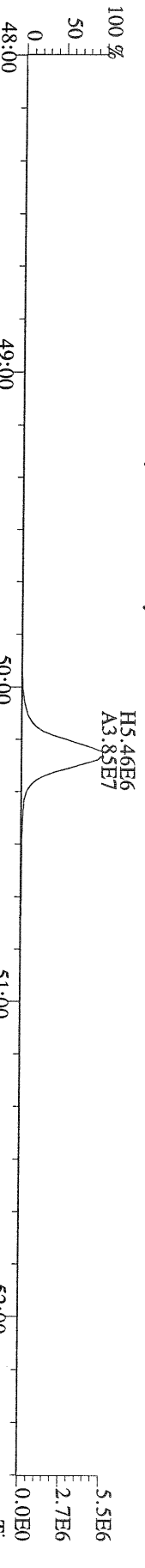
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443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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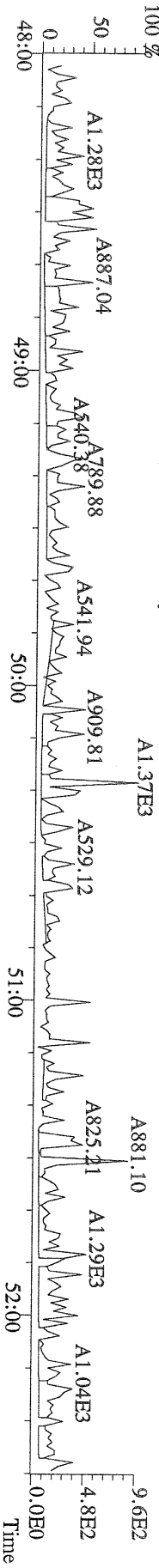
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453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



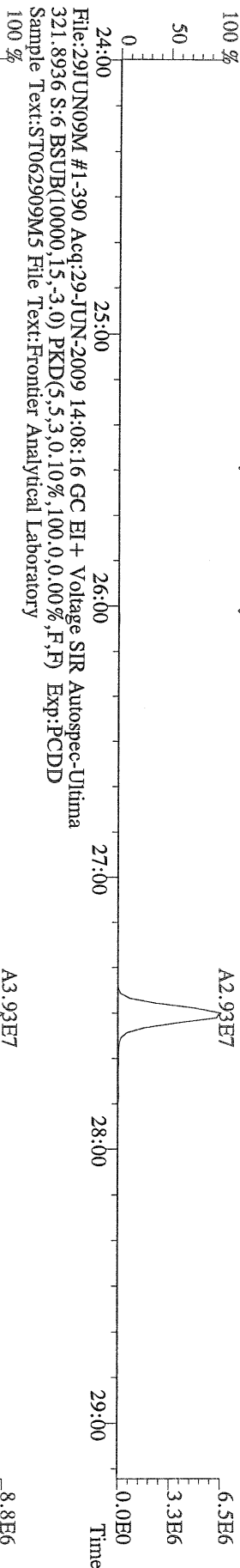
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455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



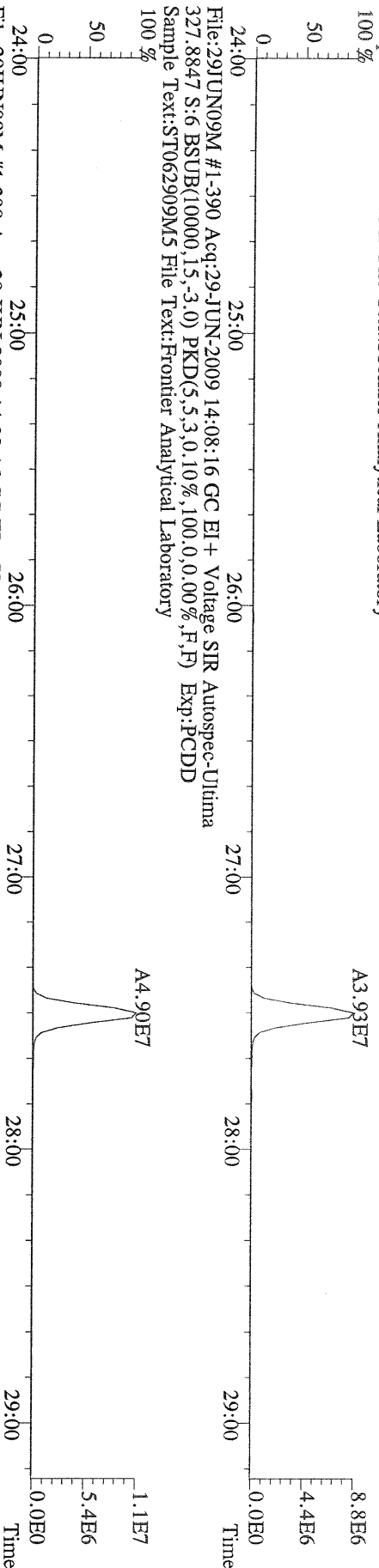
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513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M4 File Text:Frontier Analytical Laboratory



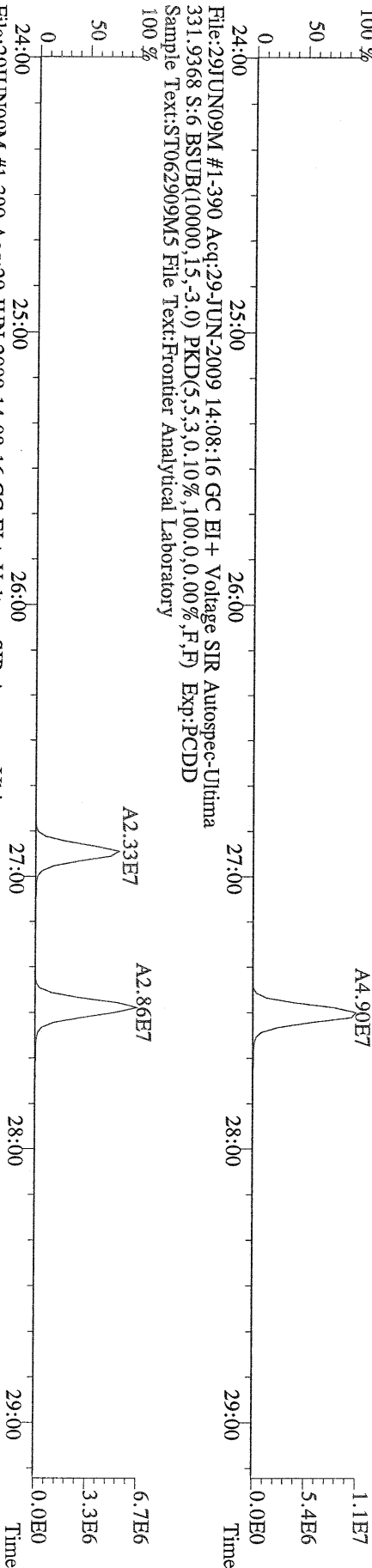
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319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



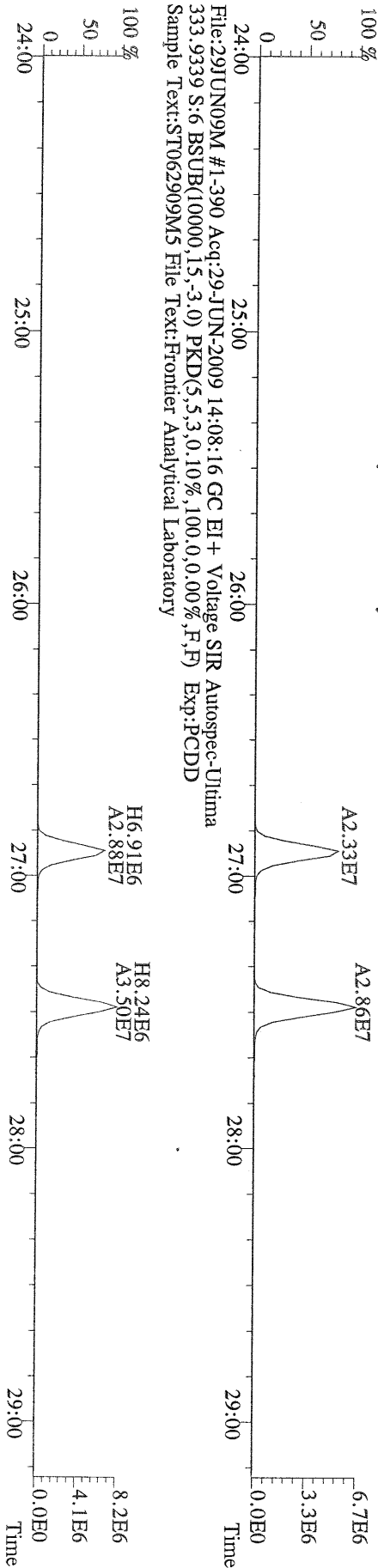
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321.8936 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



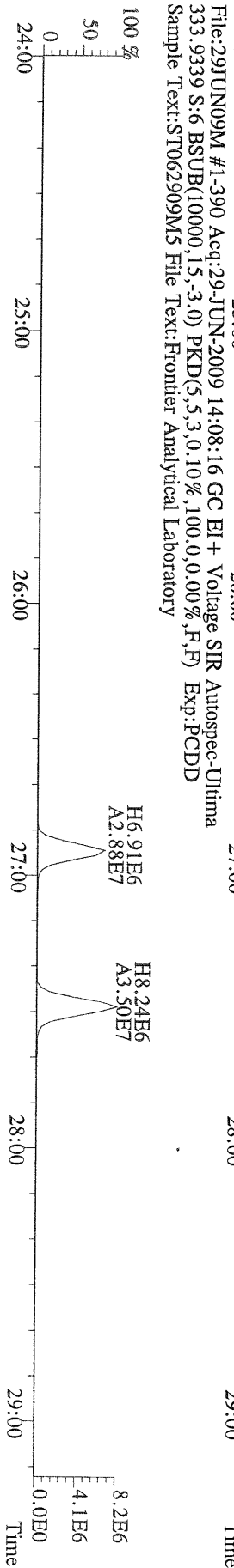
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327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



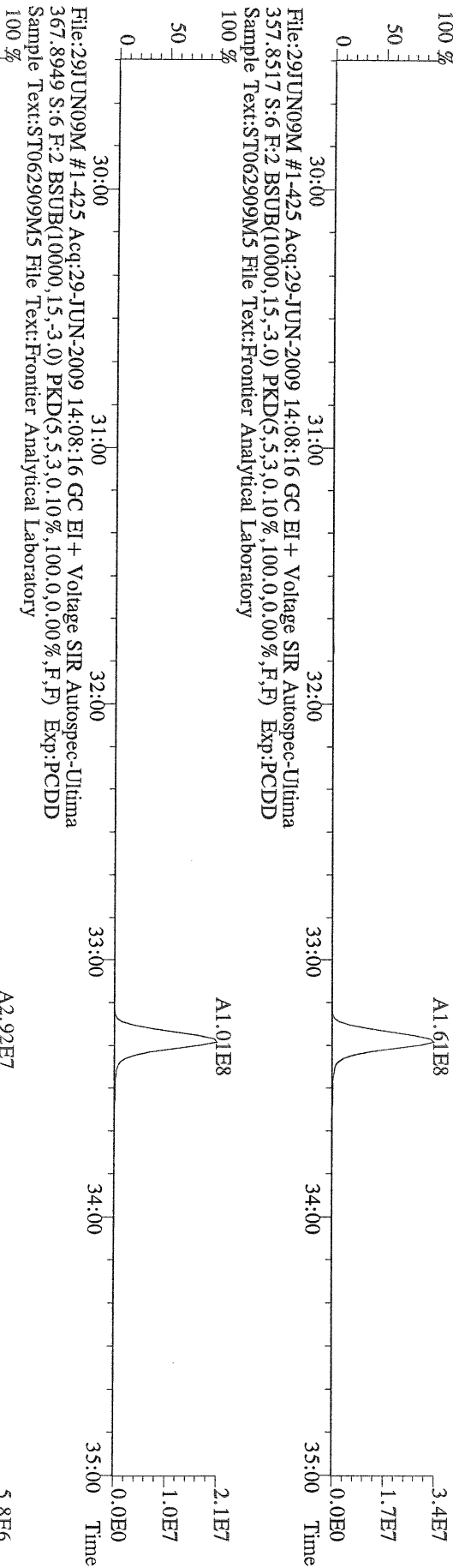
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331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



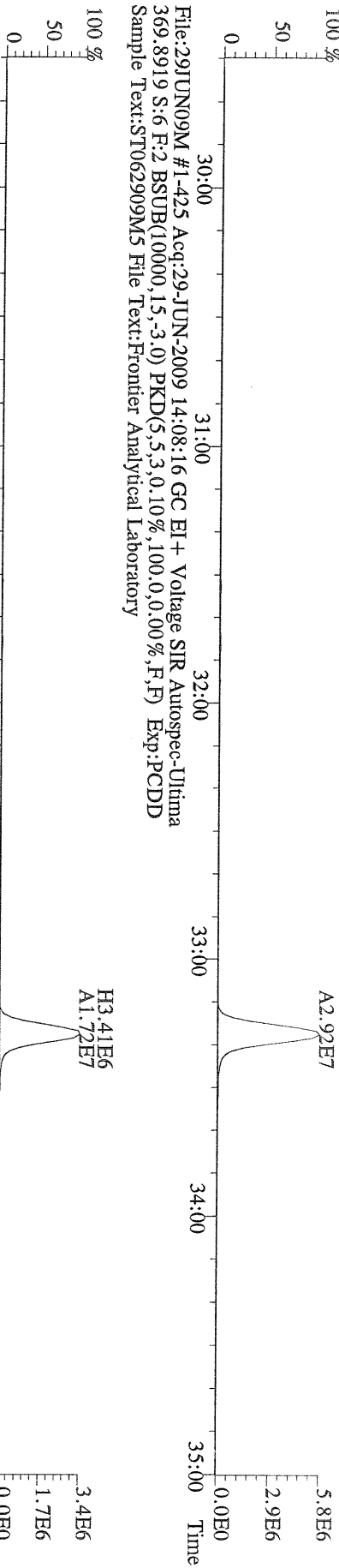
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333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



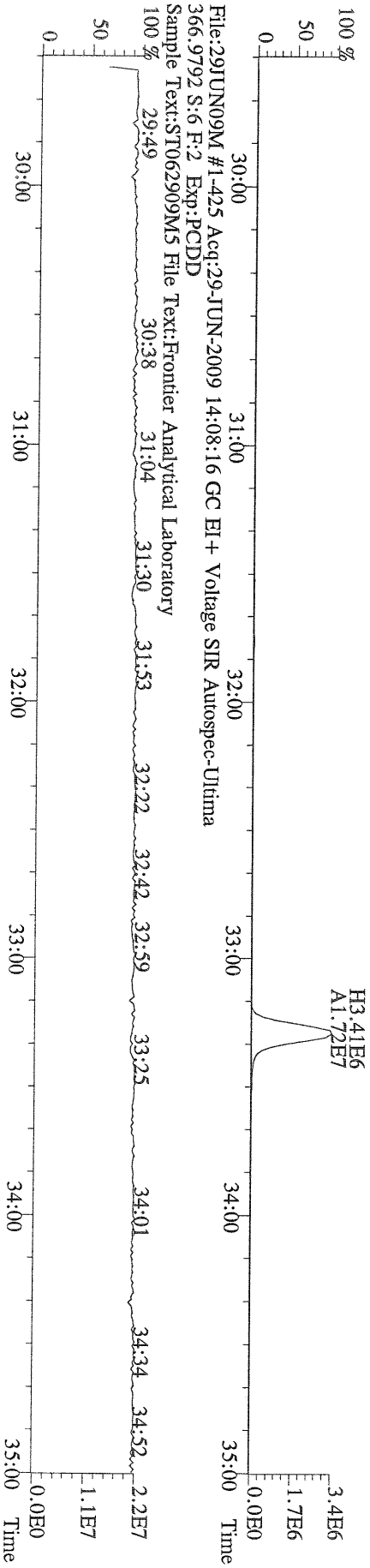
File:29JUN09M #1-425 Acq:29-JUN-2009 14:08:16 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



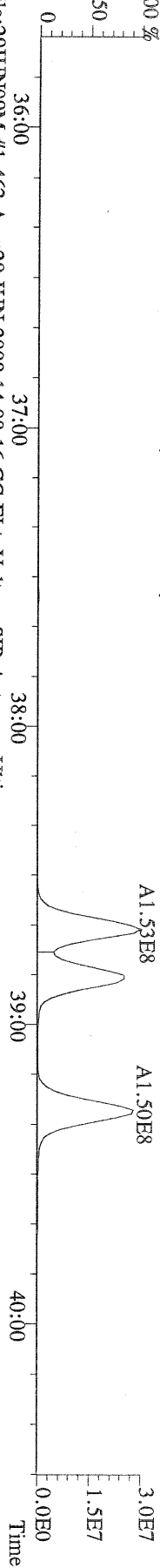
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367.8949 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



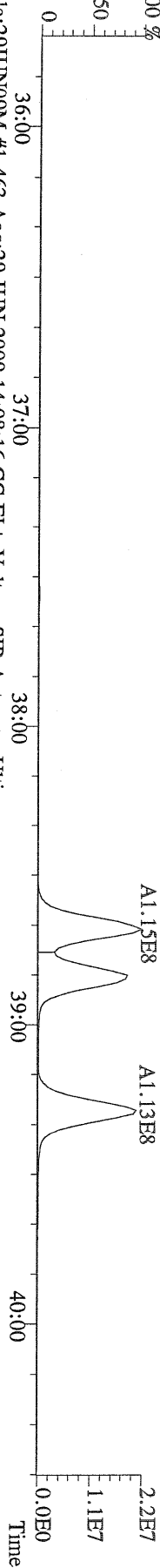
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366.9792 S:6 F:2 Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



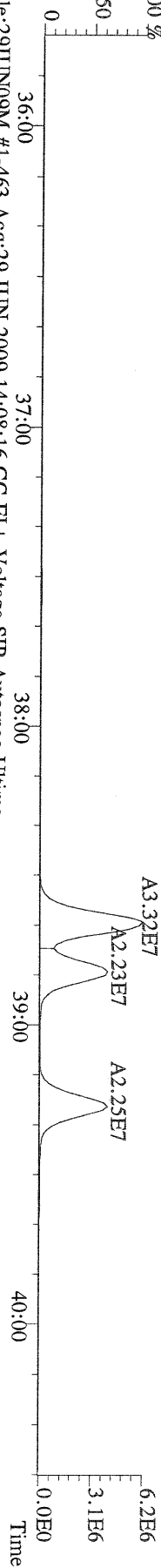
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389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



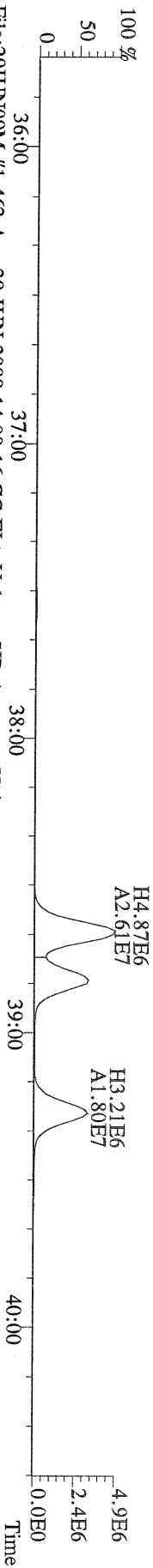
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391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



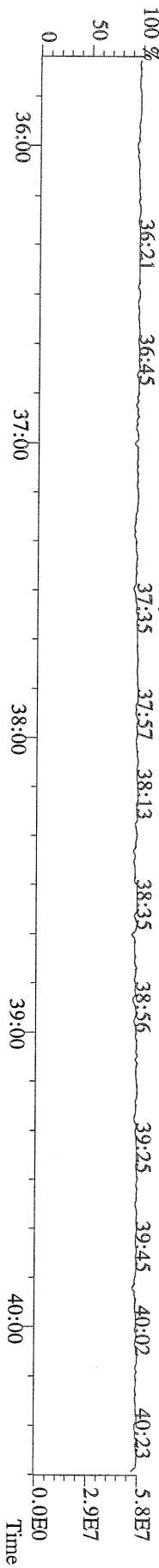
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401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



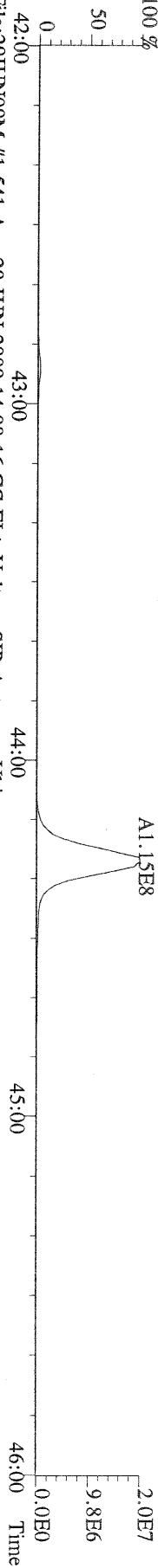
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403.8530 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



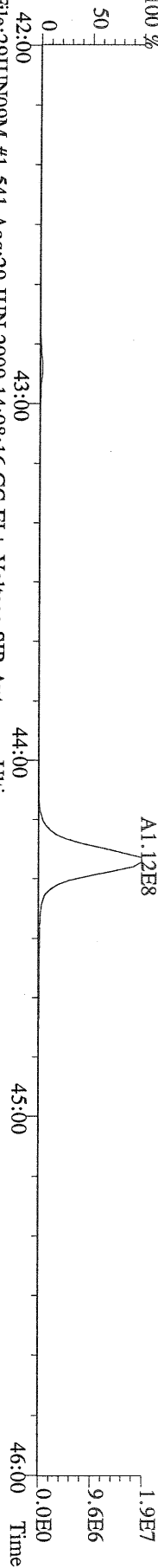
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380.9760 S:6 F:3 Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



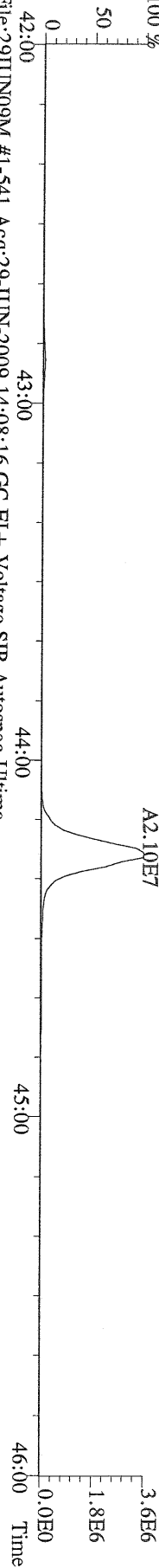
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423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



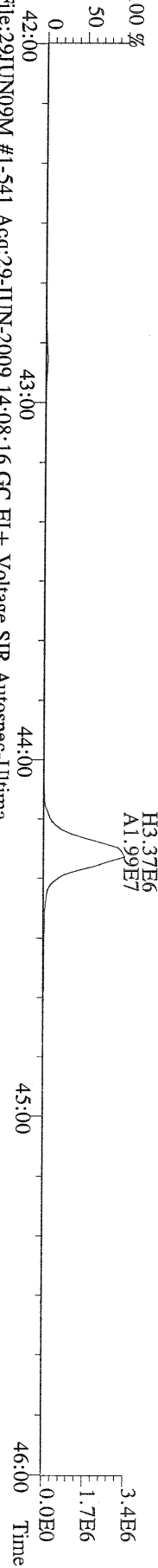
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425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



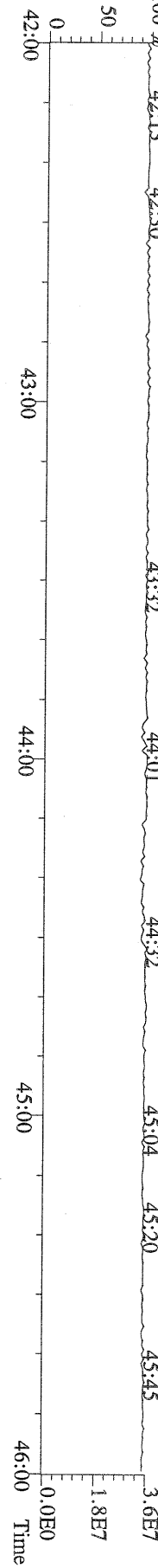
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435.8169 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



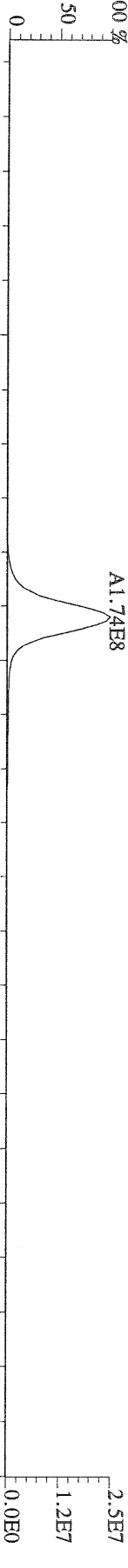
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Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



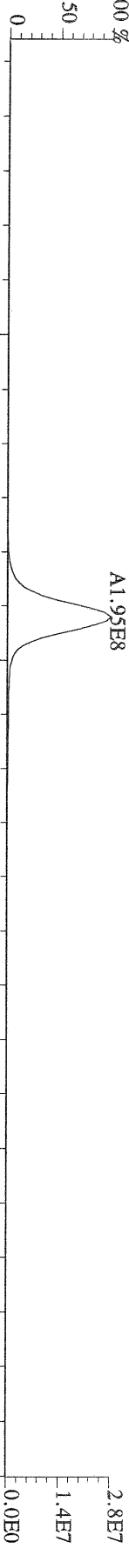
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430.9728 S:6 F:4 Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



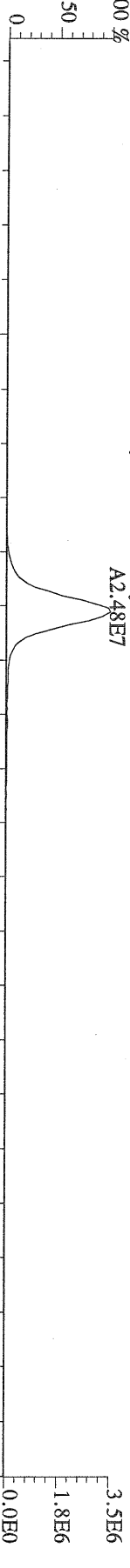
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457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



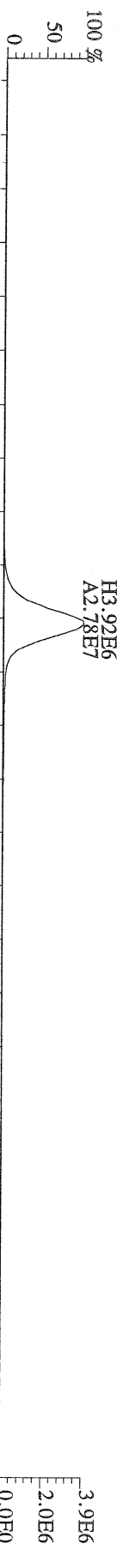
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459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



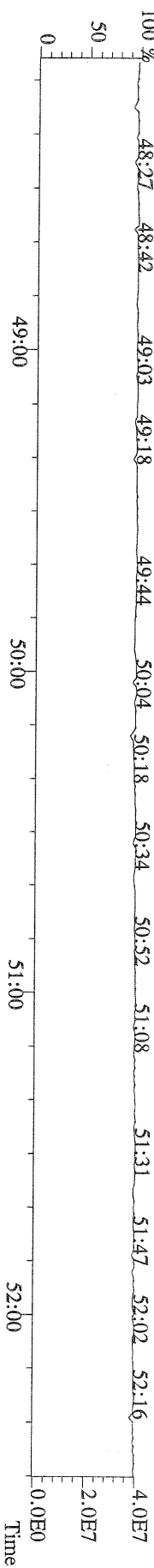
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Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



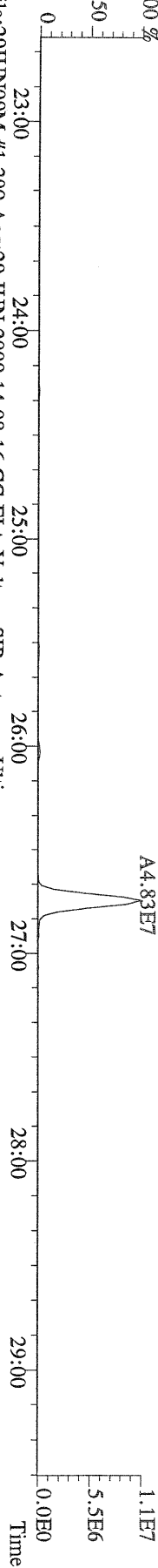
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Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



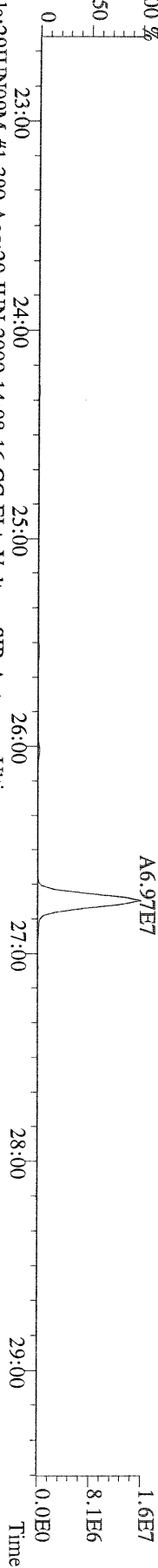
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454.9728 S:6 F:5 Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



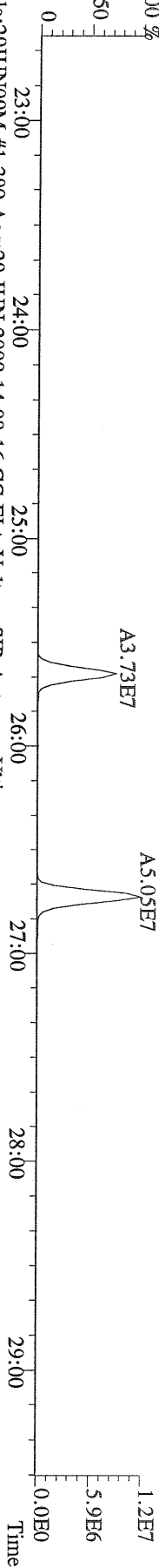
File:29JUN09M #1-390 Acq:29-JUN-2009 14:08:16 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Fronter Analytical Laboratory



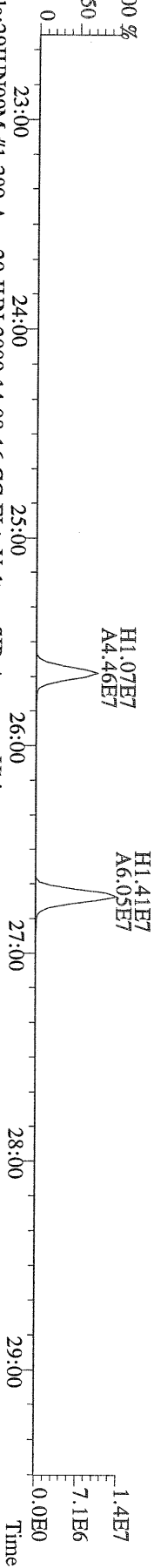
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305.8987 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Fronter Analytical Laboratory



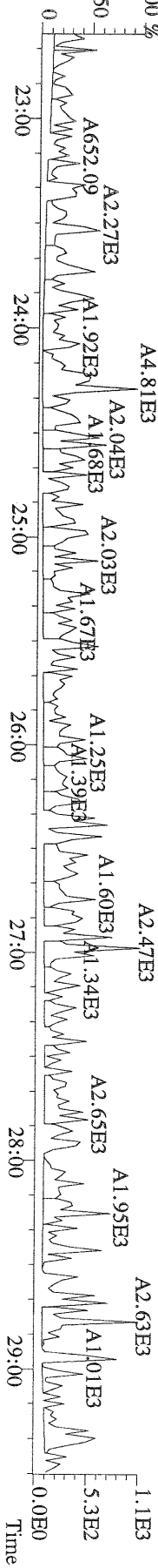
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Sample Text:ST062909M5 File Text:Fronter Analytical Laboratory



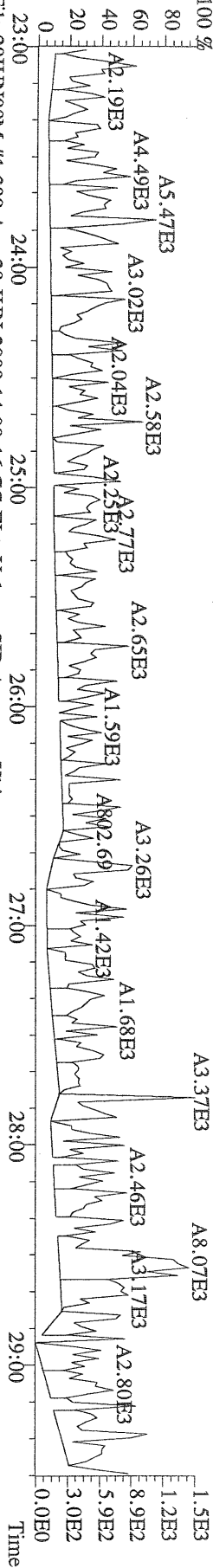
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317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Fronter Analytical Laboratory



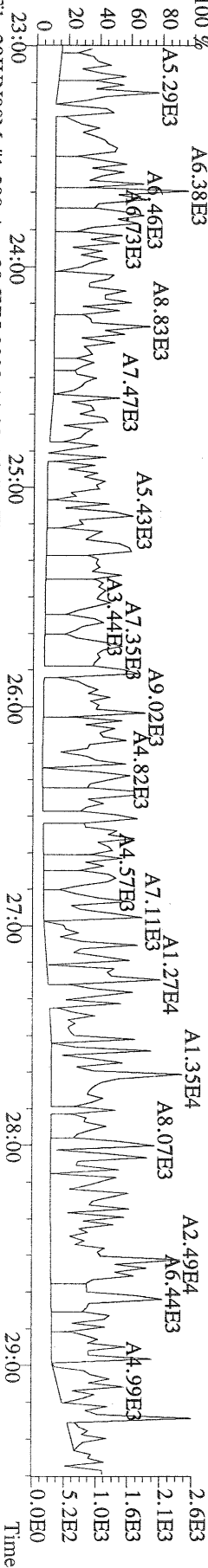
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375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Fronter Analytical Laboratory



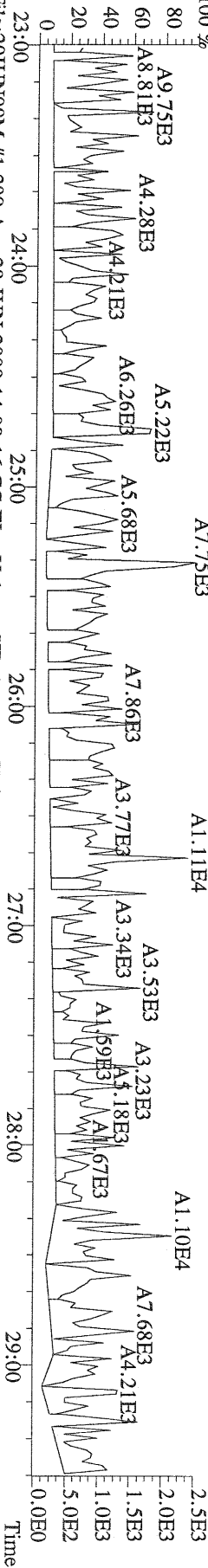
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339.8597 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



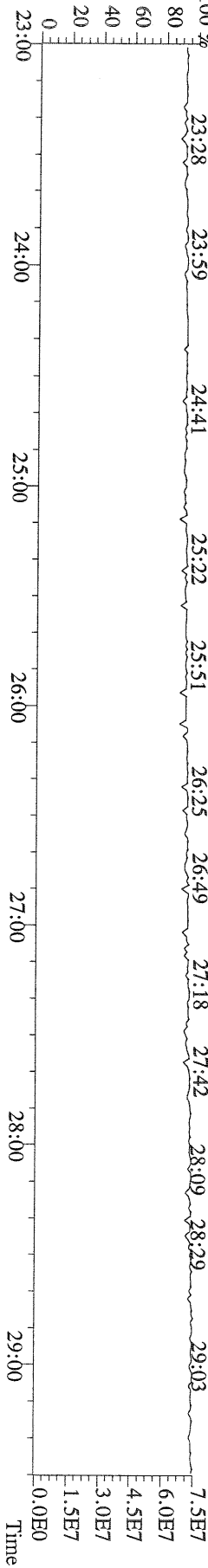
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341.8568 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



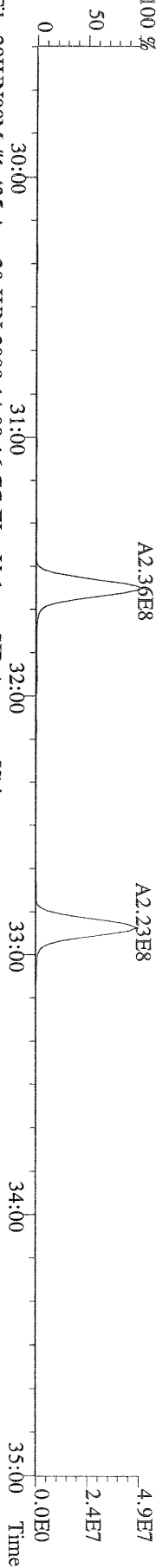
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Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



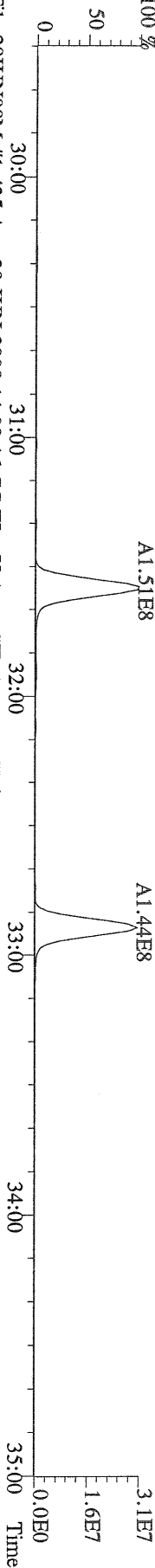
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330.9792 S:6 Exp:PCDD
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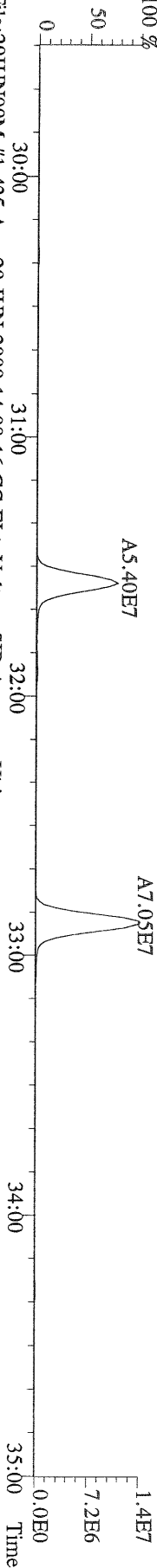
File:29JUN09M #1-425 Acq:29-JUN-2009 14:08:16 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



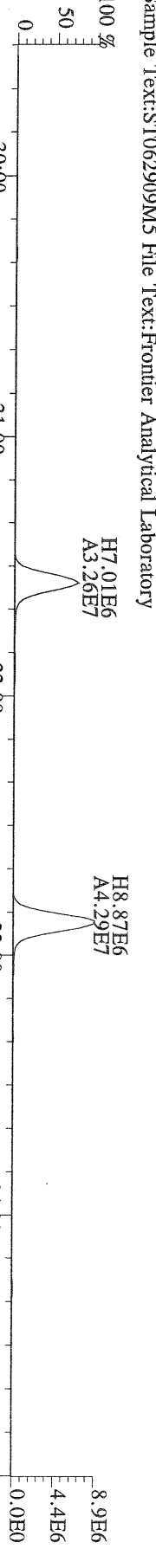
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341.8568 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



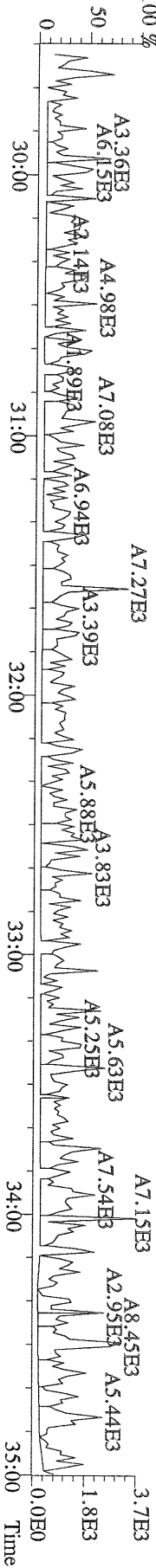
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351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



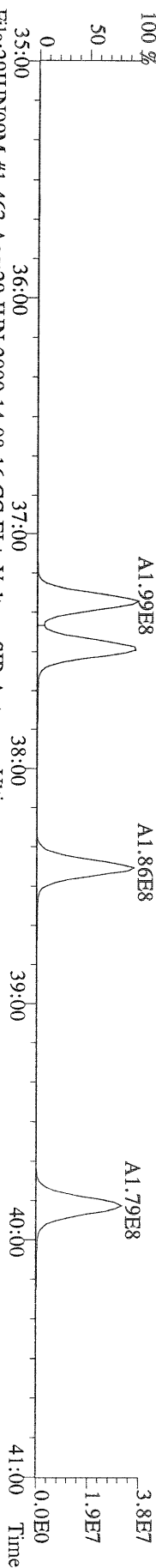
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353.8970 S:6 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



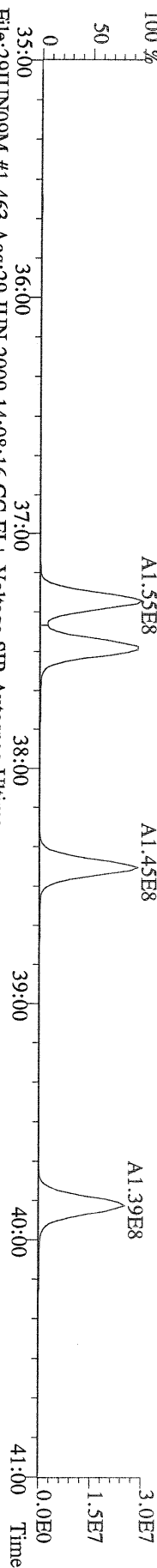
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Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



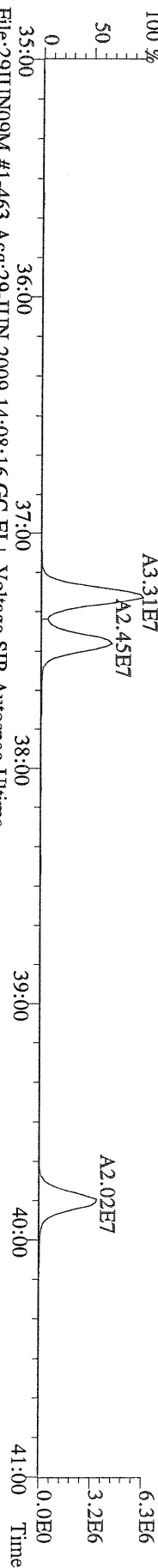
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373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



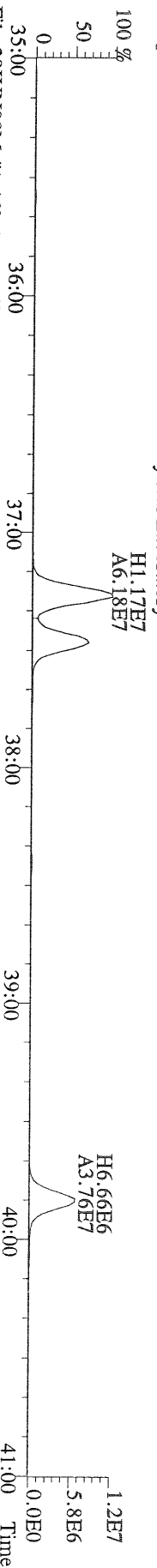
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375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



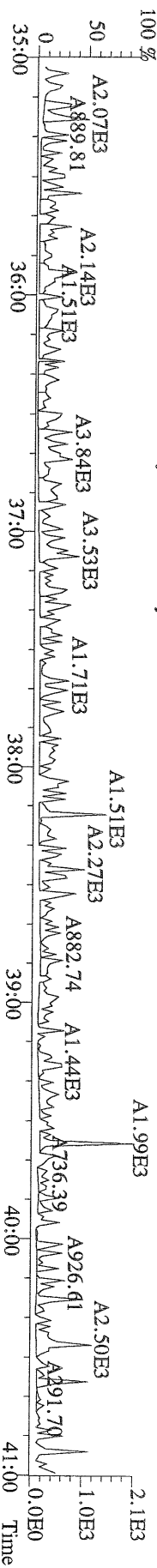
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383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



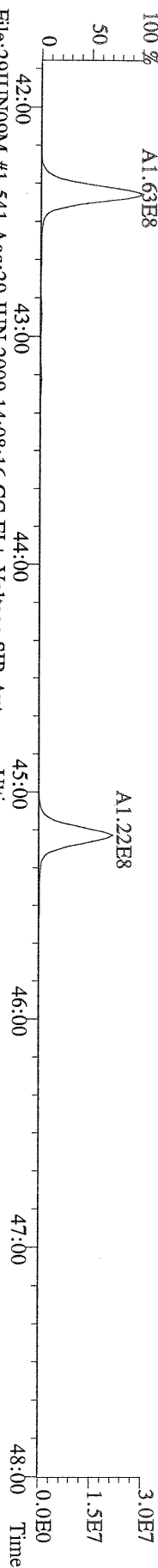
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385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



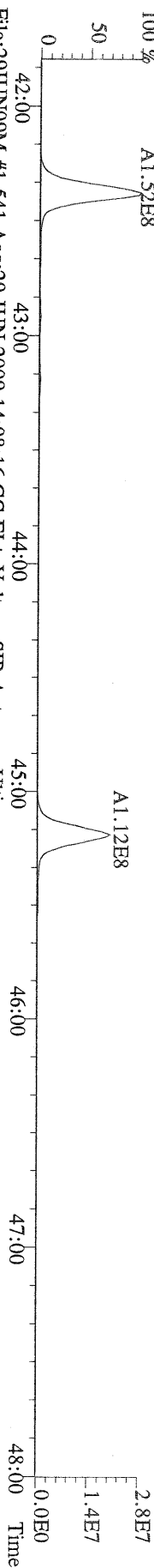
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Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



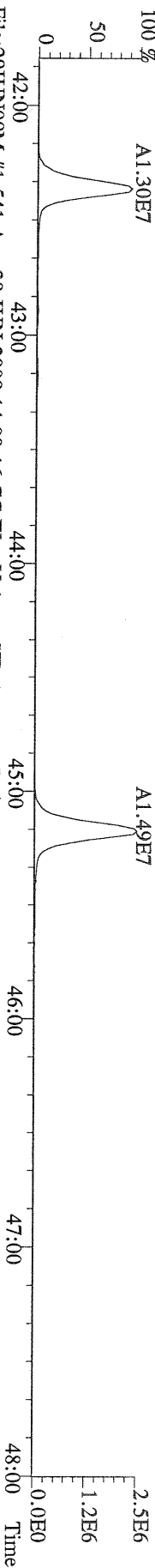
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407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



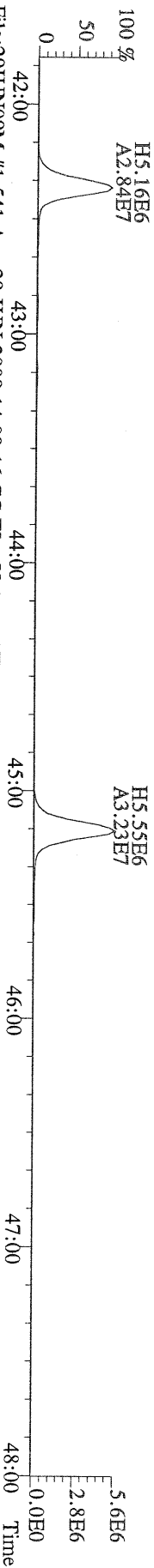
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Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



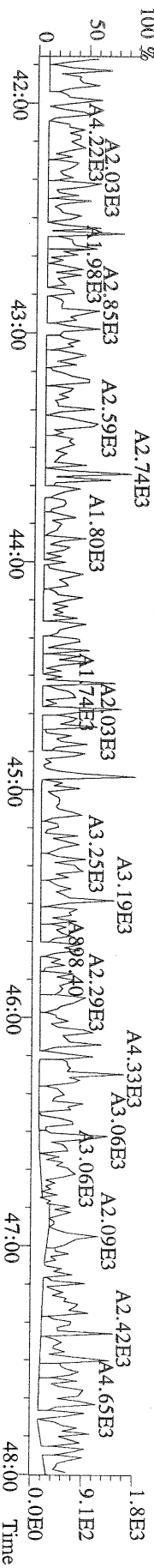
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Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



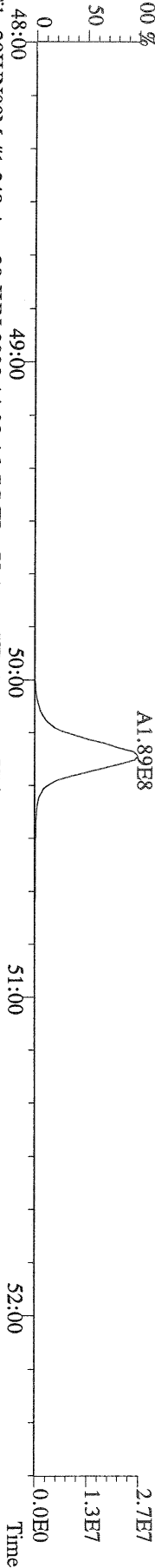
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419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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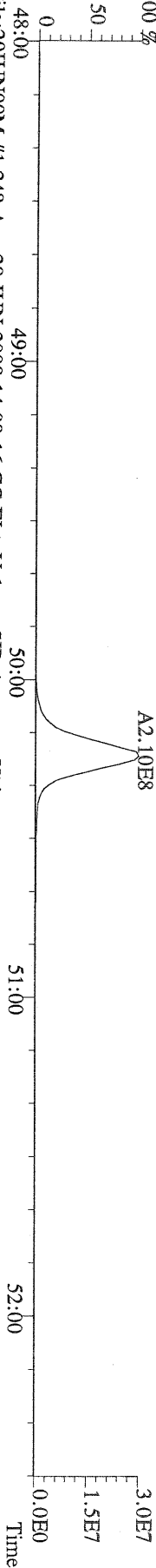
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479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



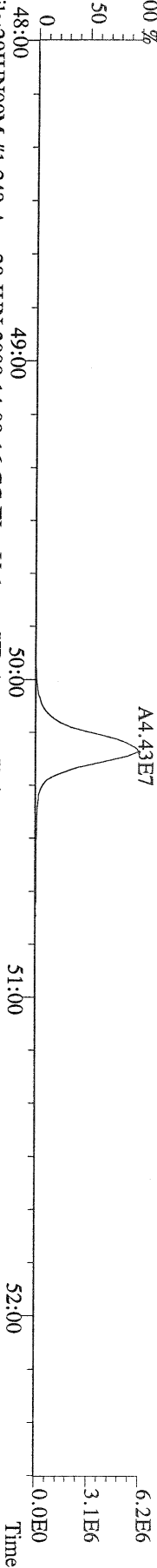
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441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



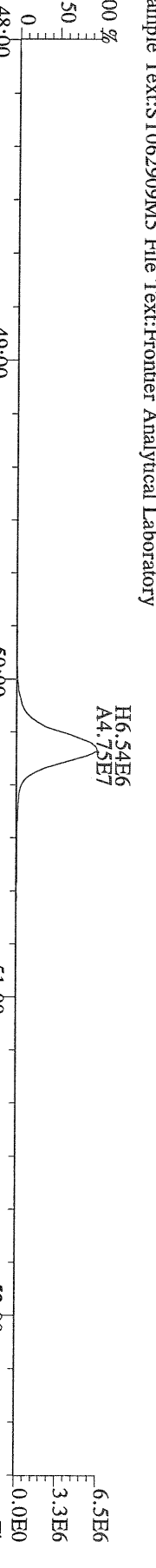
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443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory



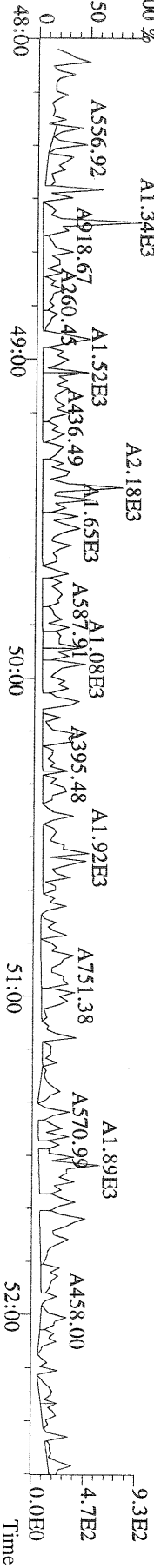
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Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory

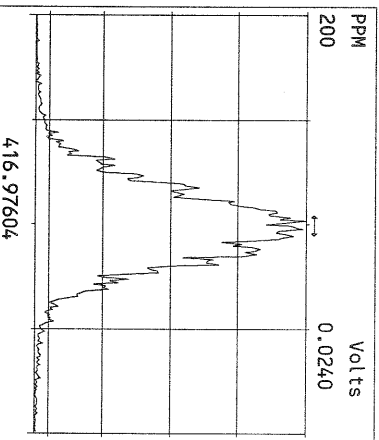
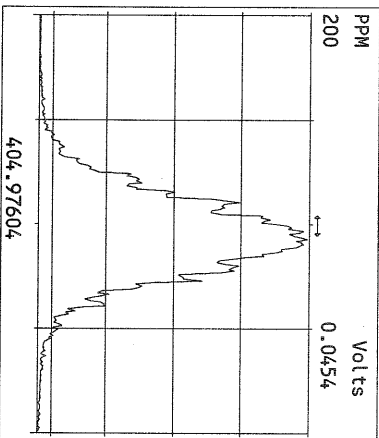
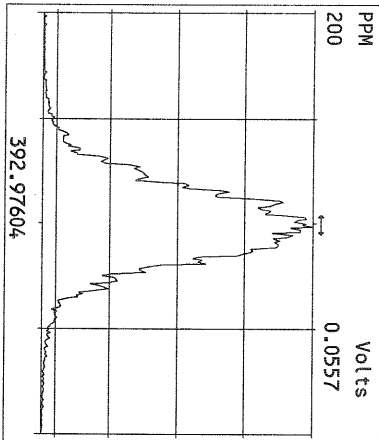
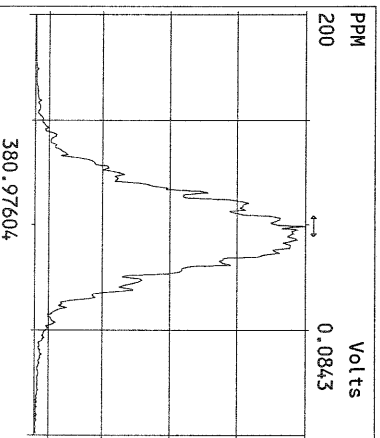
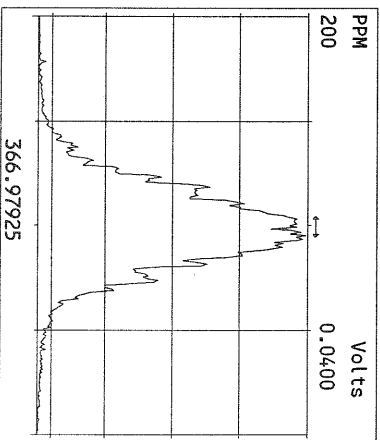
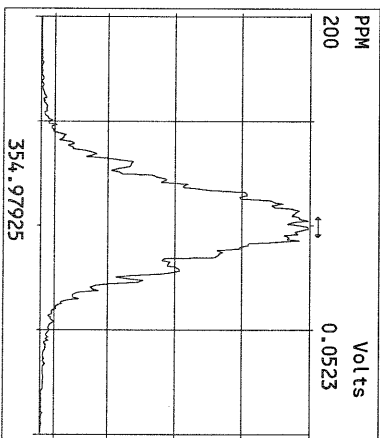
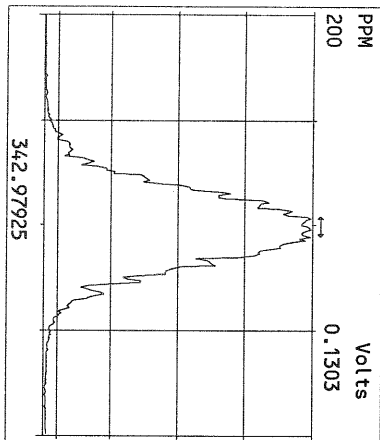
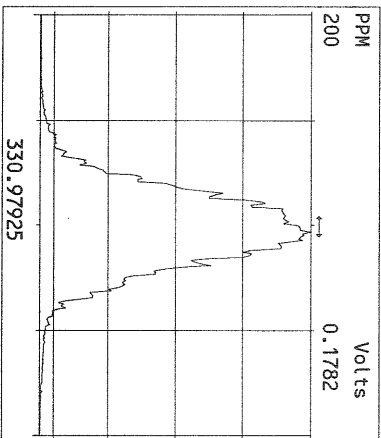
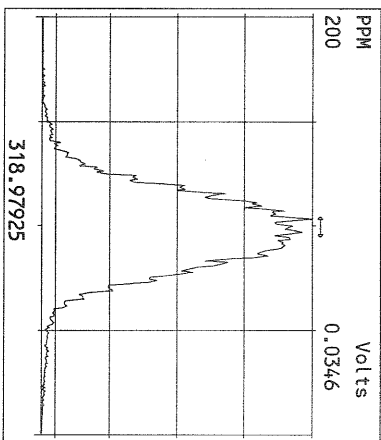
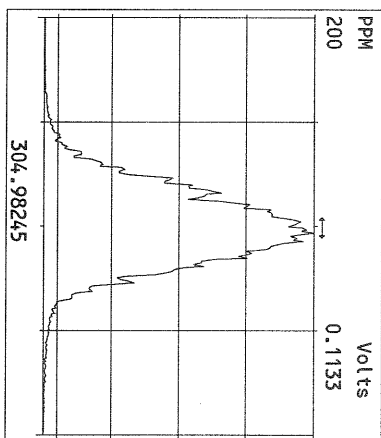
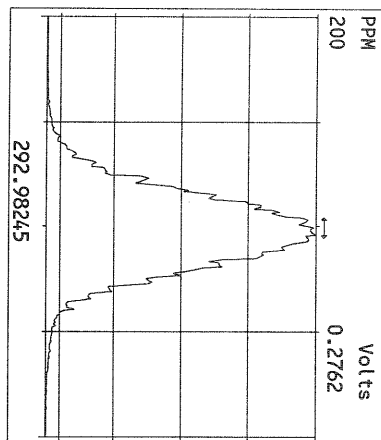


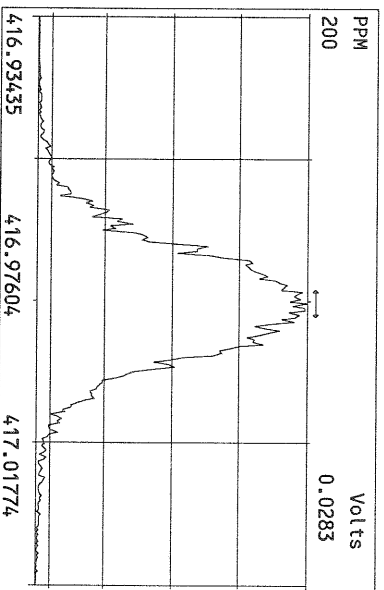
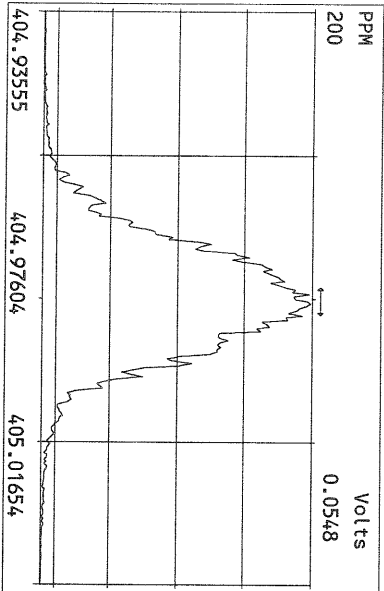
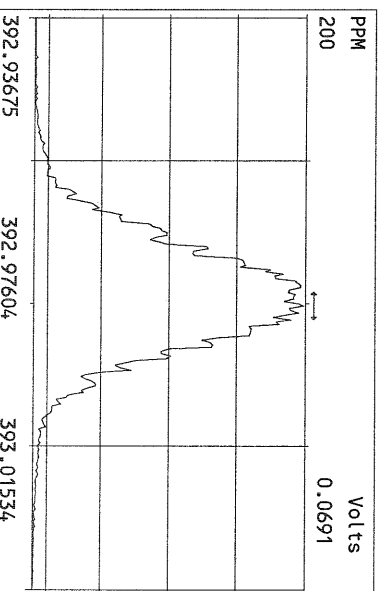
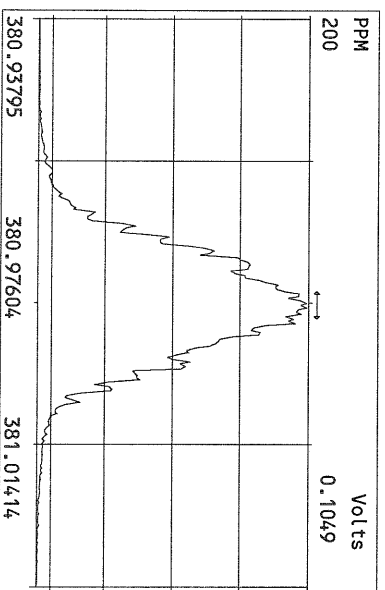
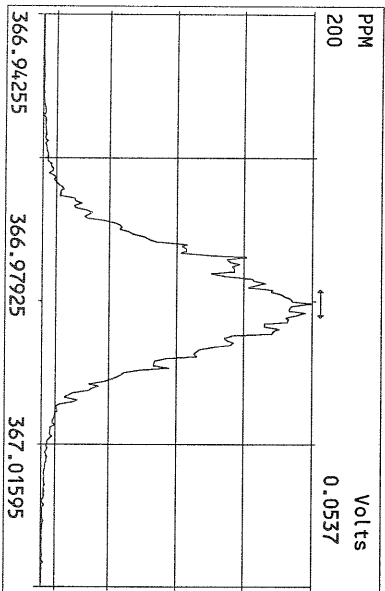
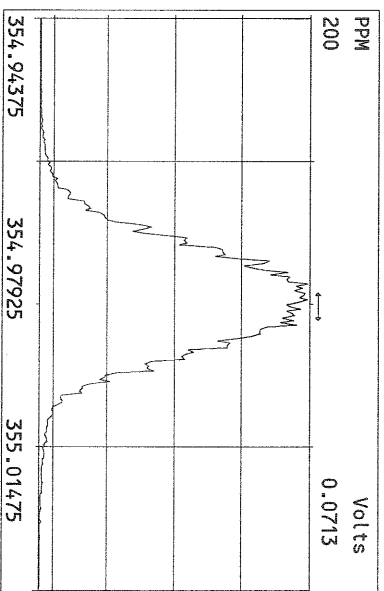
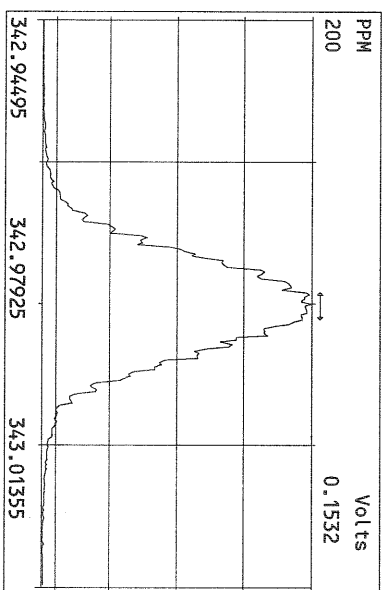
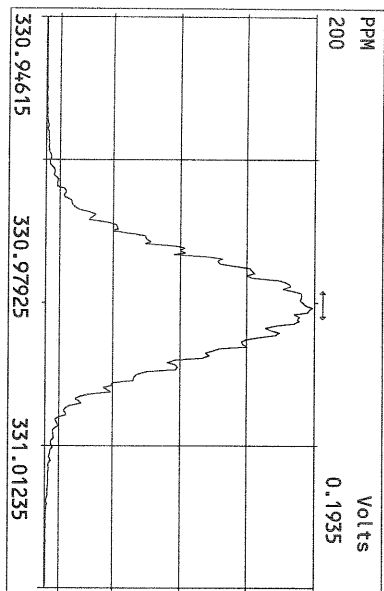
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455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory

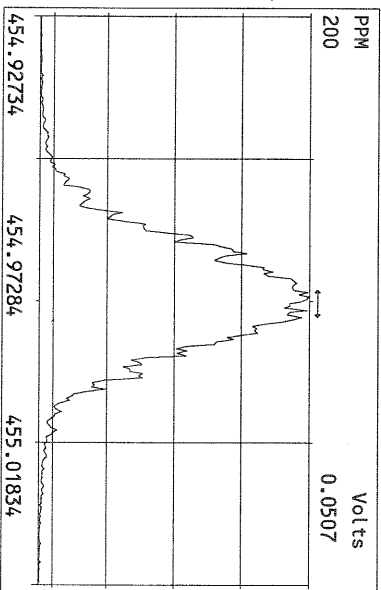
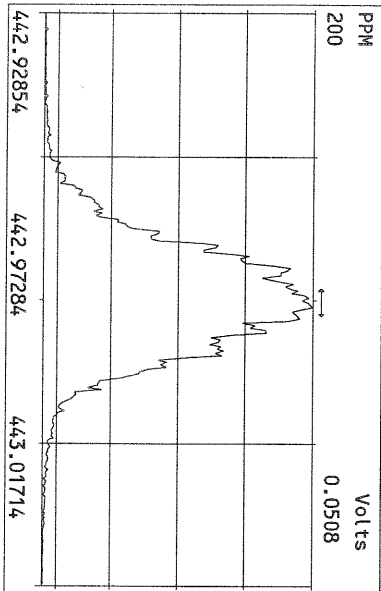
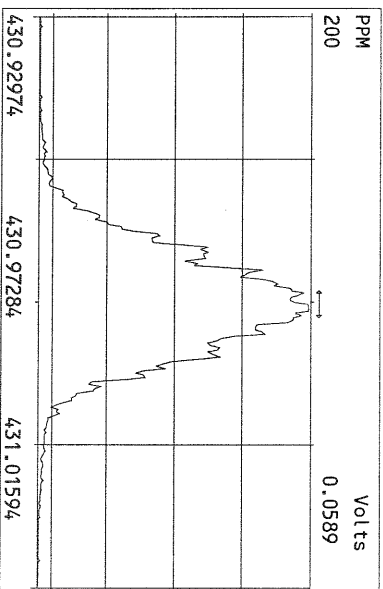
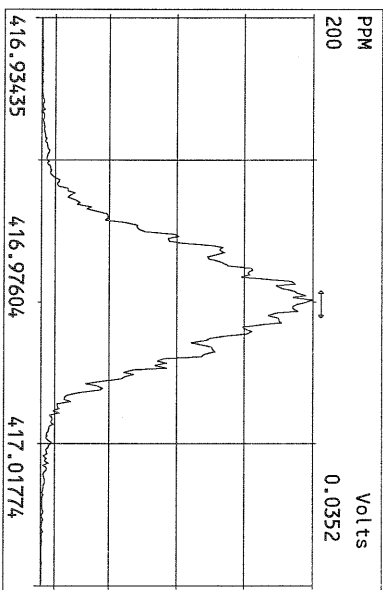
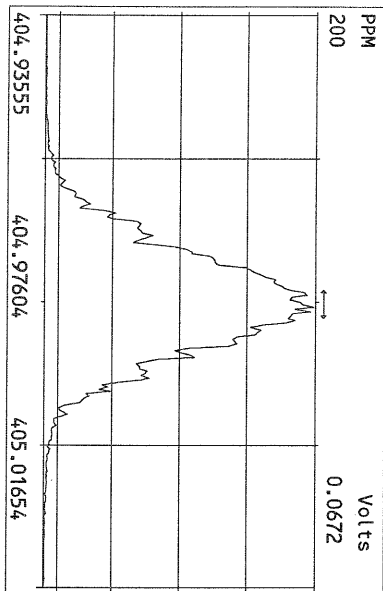
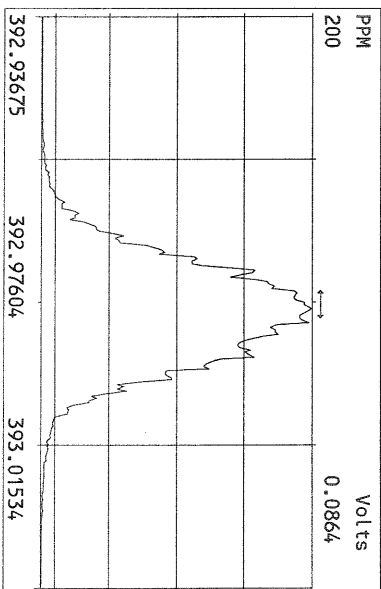
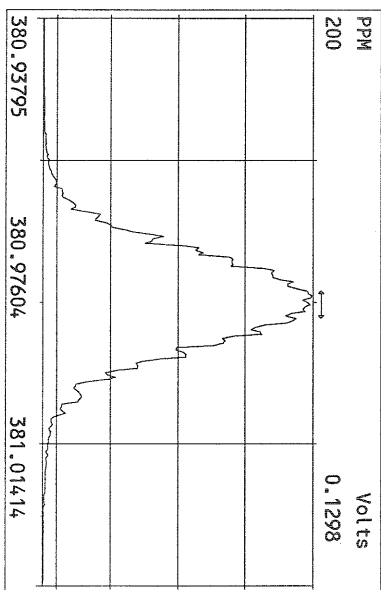
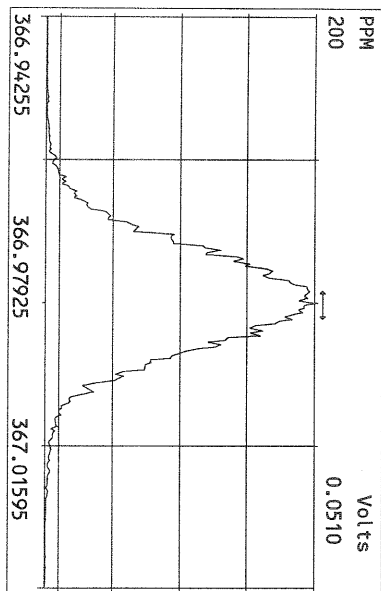


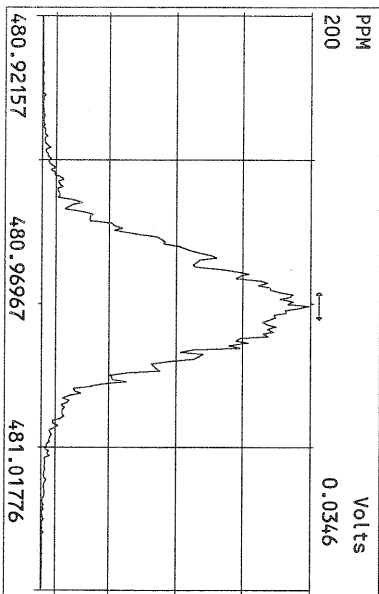
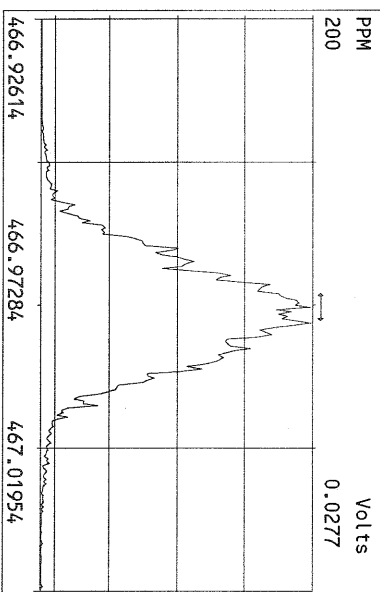
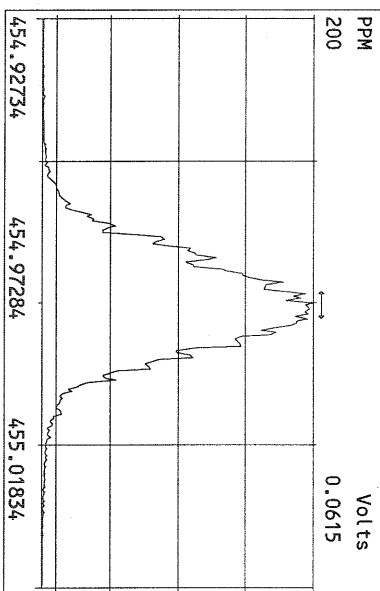
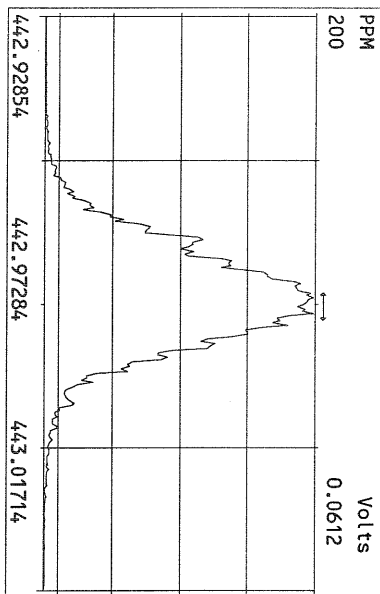
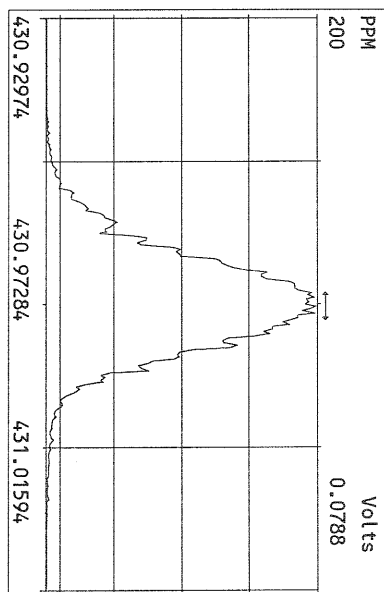
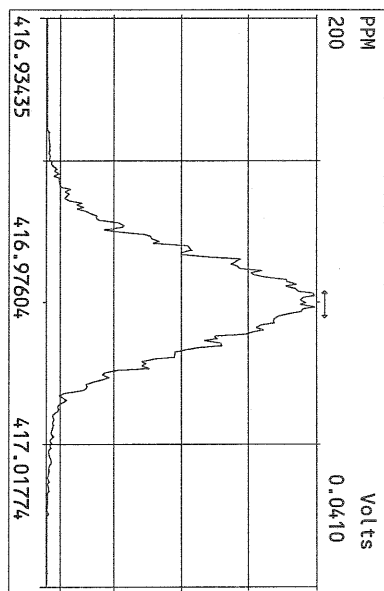
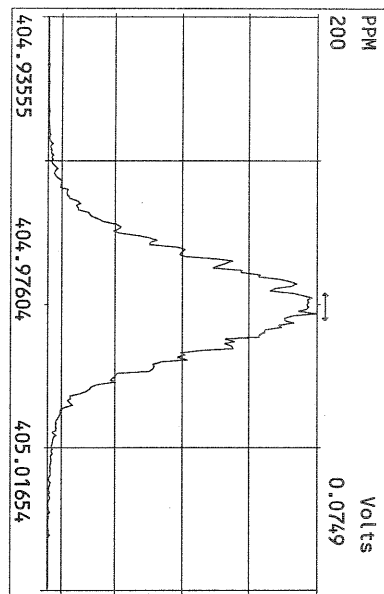
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Sample Text:ST062909M5 File Text:Frontier Analytical Laboratory

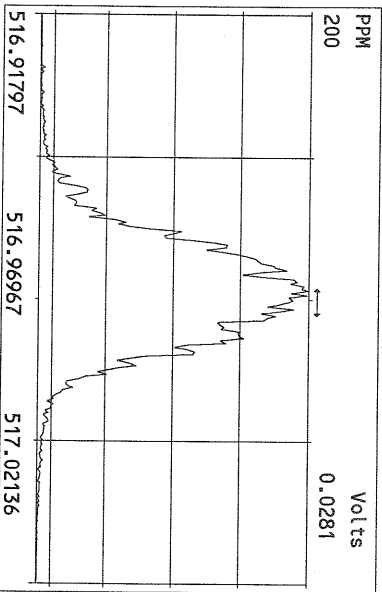
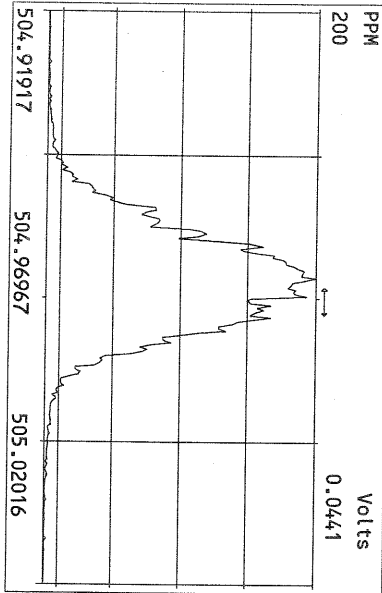
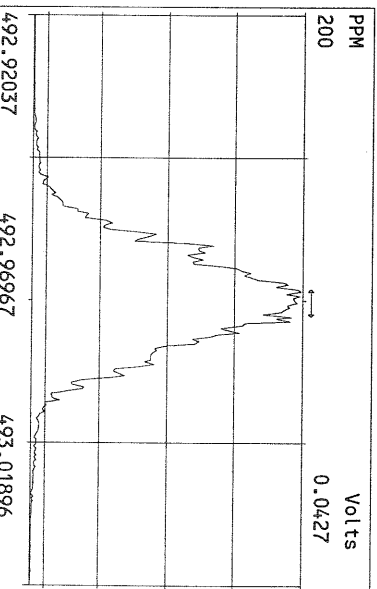
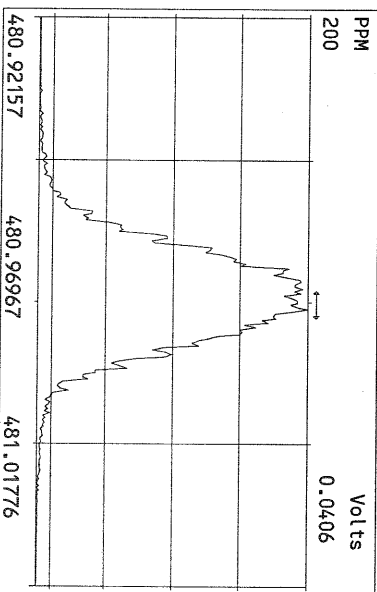
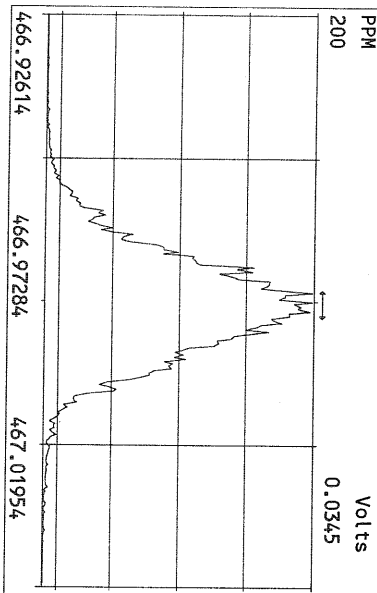
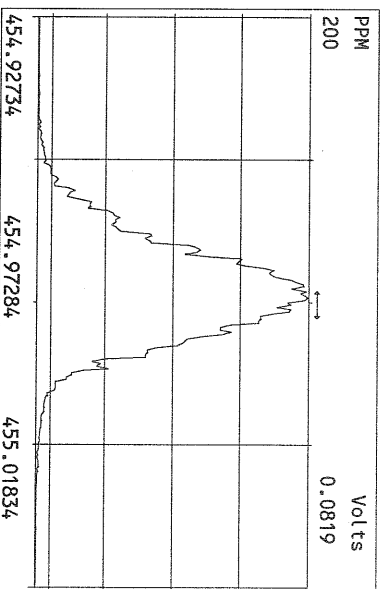
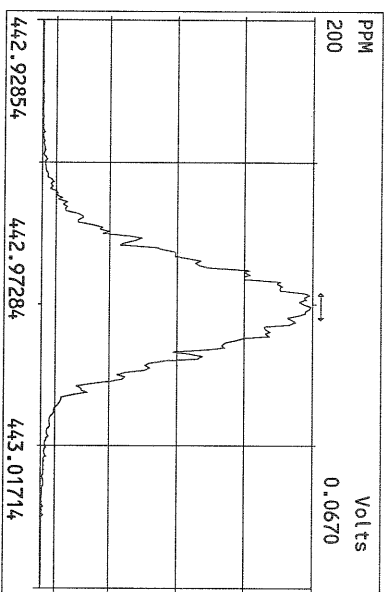
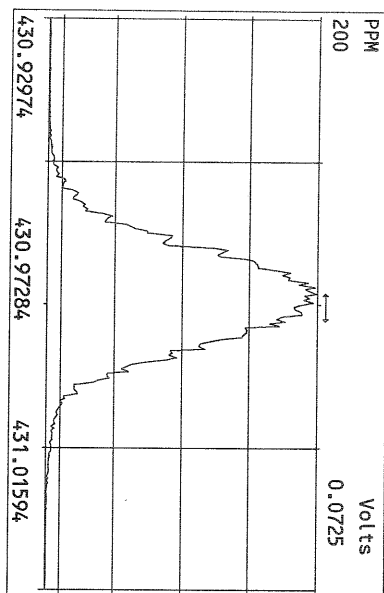












USEPA - ITD

AIR FORM 4A
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 6/29/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 09JUL09M Sam:1

Analysis Date: 9-JUL-09 13:34:12

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	4.51	3.75 - 6.25 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.61	1.32-1.78	y	23.4	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	23.1	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	25.6	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.21	1.05-1.43	y	24.6	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.01	0.88-1.20	y	24.0	18.7 - 31.2 ✓
OCDD	M+2/M+4	0.95	0.76-1.02	y	50.5	37.5 - 62.5 ✓
2,3,7,8-TCDF	M/M+2	0.69	0.65-0.89	y	5.16	3.75 - 6.25 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	24.4	18.7 - 31.2 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	24.6	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.22	1.05-1.43	y	23.9	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	25.4	18.7 - 31.2 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.19	1.05-1.43	y	24.7	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.20	1.05-1.43	y	26.2	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.01	0.88-1.20	y	25.3	18.7 - 31.2 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.01	0.88-1.20	y	27.0	18.7 - 31.2 ✓
OCDF	M+2/M+4	0.94	0.76-1.02	y	51.9	35.0 - 65.0 ✓

Analyst: Date: 7/9/09

USEPA - ITD

AIR FORM 4B

PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 6/29/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 09JUL09M Sam:1

Analysis Date: 9-JUL-09 13:34:12

	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
LABELED COMPOUNDS						
13C-2,3,7,8-TCDD	M/M+2	0.79	0.65-0.89	y	103	75.0 - 125 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.76	1.32-1.78	y	110	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	105	75.0 - 125 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	0.88-1.20	y	113	70.0 - 130 ✓
13C-OCDD	M+2/M+4	0.97	0.76-1.02	y	218	140 - 260 ✓
13C-2,3,7,8-TCDF	M/M+2	0.88	0.65-0.89	y	101	70.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.73	1.32-1.78	y	112	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	109	70.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.48	0.37-0.51	y	104	70.0 - 130 ✓
13C-OCDF	M+2/M+4	0.96	0.76-1.02	y	222	140 - 260 ✓
CLEANUP SURROGATE						
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.43-0.59	y	110	75.0 - 125 ✓
PRE-SPIKE SURROGATE						
37Cl-2,3,7,8-TCDD					99.8	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	91.5	75.0 - 125 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.74	1.32-1.78	y	104	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	93.5	75.0 - 125 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.48	0.37-0.51	y	106	75.0 - 125 ✓

Analyst: 8Date: 7/9/09

Lab Name: Frontier Analytical Laboratory	Episode No.:
Contract No.:	SAS No.:
Instrument ID: FAL3	Initial Calibration Date: 6/29/09
RT Window Data Filename: 09JUL09M Sam:1	Analysis Date: 9-JUL-09 Time: 13:34:12
DB-5 IS Data Filename: 09JUL09M Sam:1	Analysis Date: 9-JUL-09 Time: 13:34:12
DB-225 IS Date Filename:	Analysis Date: Time:

ABSOLUTE		ABSOLUTE	
ISOMERS	RT	ISOMERS	RT
1,3,6,8-TCDD (F)	24:31 ✓	1,3,6,8-TCDF (F)	23:09 ✓
1,2,8,9-TCDD (L)	28:27 ✓	1,2,8,9-TCDF (L)	28:40 ✓
1,2,4,7,9-PeCDD (F)	30:22 ✓	1,3,4,6,8-PeCDF (F)	28:32 ✓
1,2,3,8,9-PeCDD (L)	33:55 ✓	1,2,3,8,9-PeCDF (L)	34:19 ✓
1,2,4,6,7,9-HxCDD (F)	36:15 ✓	1,2,3,4,6,8-HxCDF (F)	35:22 ✓
1,2,3,7,8,9-HxCDD (L)	39:19 ✓	1,2,3,7,8,9-HxCDF (L)	39:53 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:56 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:25 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:19 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:14 ✓

000217 of 000295

NATO 1989 Tox: 48.4
WHO 1998 Tox: 60.1

Analyst: Date: 7/9/09

Frontier Analytical Laboratory - Acquisition Log

Run Name:09JUL09M

Instrument: FAL3

GC: DB5

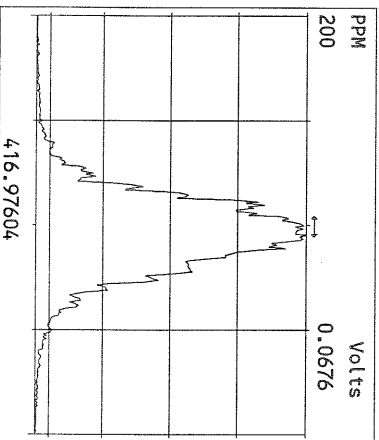
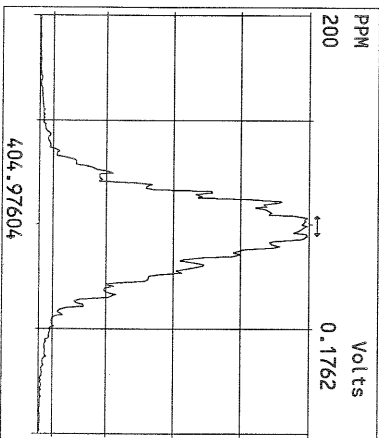
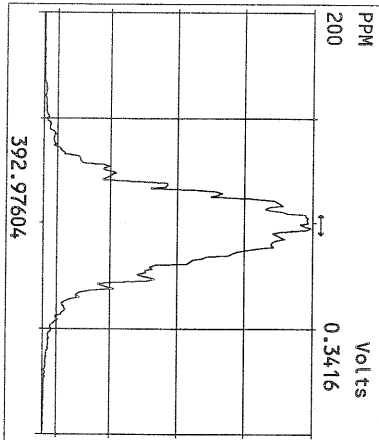
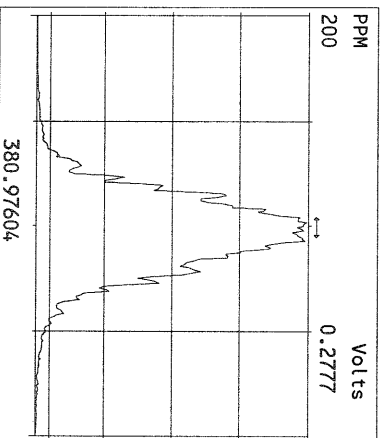
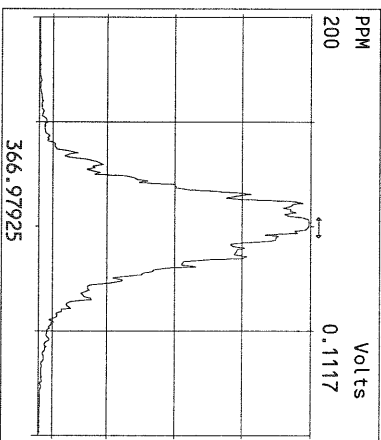
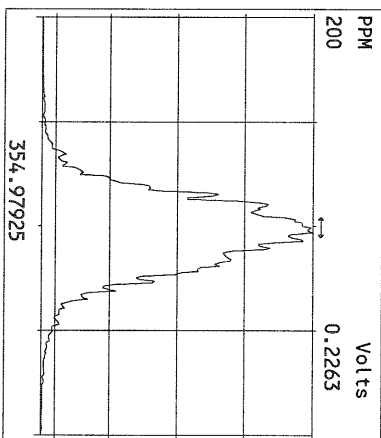
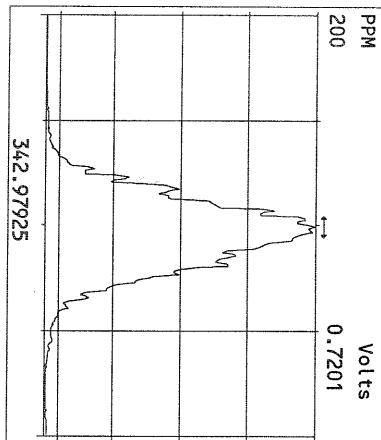
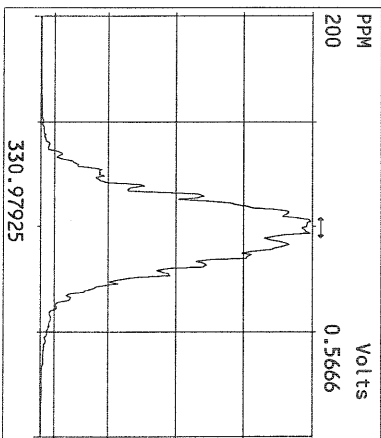
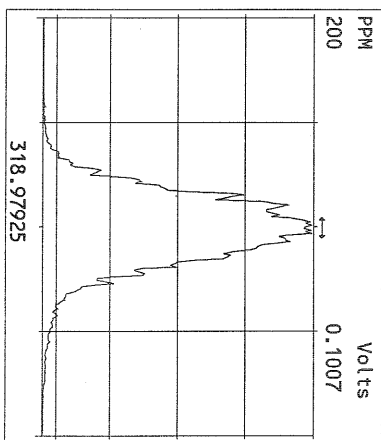
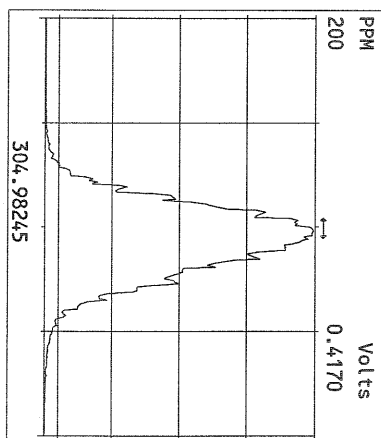
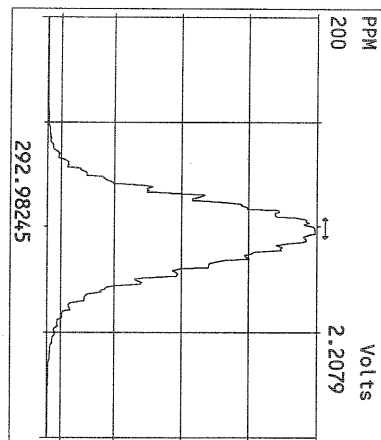
Experiment:PCDD

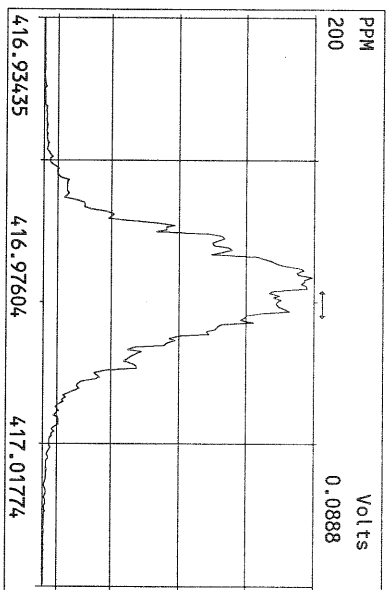
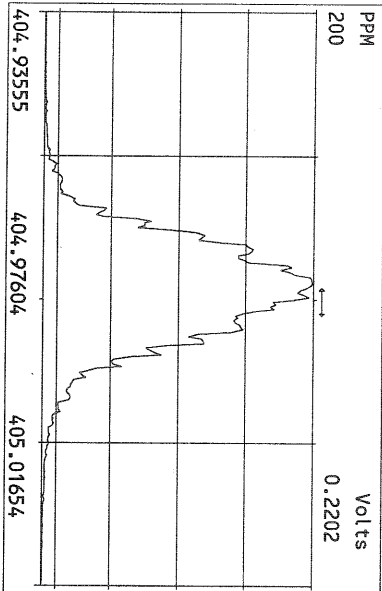
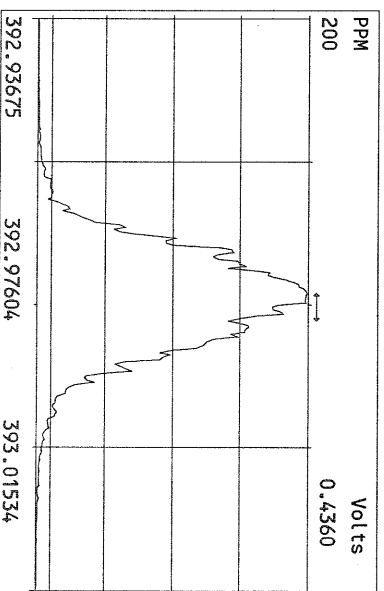
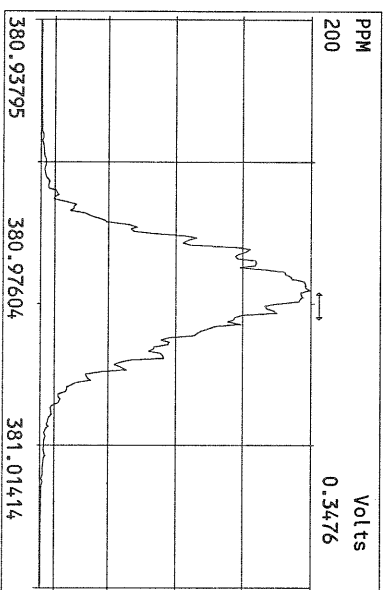
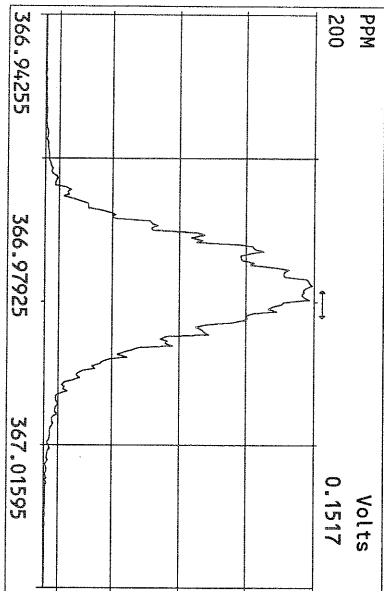
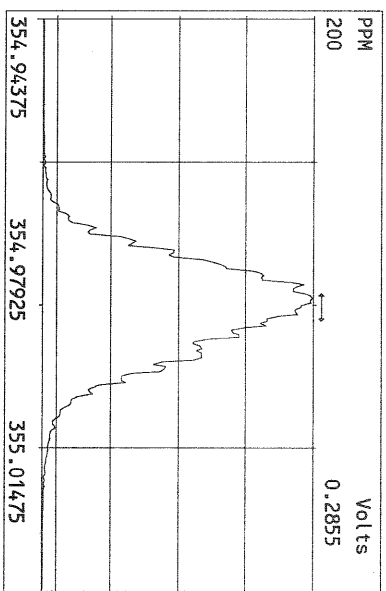
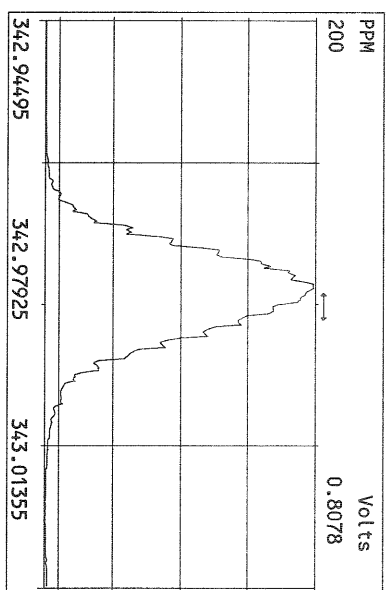
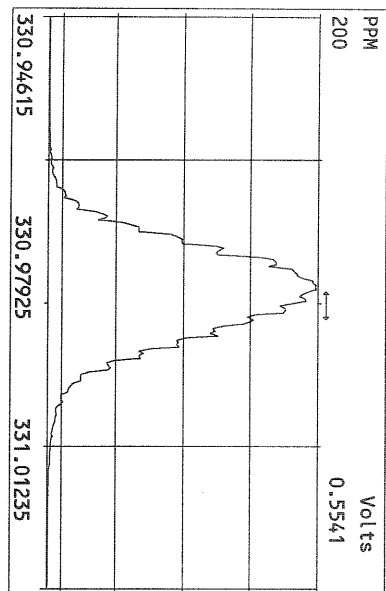
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09JUL09M	3	1754-001-0001-LC2	LCS2	9-JUL-09 15:24:53	ST070909M1	ST070909M2	BS
09JUL09M	4	1754-001-0001-MB	Method Blank	9-JUL-09 16:20:15	ST070909M1	ST070909M2	BS
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09JUL09M	6	5557-001-0001-SA	CAMU-S1-061809	9-JUL-09 18:11:01	ST070909M1	ST070909M2	BS
09JUL09M	7	5557-002-0001-SA	CAMU-S3-061809	9-JUL-09 19:06:20	ST070909M1	ST070909M2	BS
09JUL09M	8	5557-003-0001-SA	OFF-03-061809	9-JUL-09 20:01:38	ST070909M1	ST070909M2	BS
09JUL09M	9	5557-004-0001-SA	OFF-04-061809	9-JUL-09 20:56:57	ST070909M1	ST070909M2	BS
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09JUL09M	11	5557-006-0001-SA	CAMU-S3-061609	9-JUL-09 22:47:23	ST070909M1	ST070909M2	BS
09JUL09M	12	5557-008-0001-SA	OFF-04-061709	9-JUL-09 23:42:37	ST070909M1	ST070909M2	BS
09JUL09M	13	5557-009-0001-SA	OFF-03-061709	10-JUL-09 00:37:52	ST070909M1	ST070909M2	BS
09JUL09M	14	SB070909M1	Solvent Blank	10-JUL-09 01:33:07	ST070909M1	ST070909M2	BS
09JUL09M	15	ST070909M2	AIR CS3 (090121I)	10-JUL-09 02:28:22	ST070909M2	ST070909M3	BS
09JUL09M	16	ST070909M3	1613 CS3	10-JUL-09 03:23:39	ST070909M2	ST070909M3	BS
09JUL09M	17	1758-001-0001-LC1	LCS1	10-JUL-09 04:18:54	ST070909M2	ST070909M3	BS
09JUL09M	18	1758-001-0001-LC2	LCS2	10-JUL-09 05:14:08	ST070909M2	ST070909M3	BS
09JUL09M	19	1758-001-0001-MB	Method Blank	10-JUL-09 06:09:24	ST070909M2	ST070909M3	BS
09JUL09M	20	QC070909M1	PUFQC062609A	10-JUL-09 07:04:37	ST070909M2	ST070909M3	BS
09JUL09M	21	QC070909M2	FilterQC062609B	10-JUL-09 07:59:52	ST070909M2	ST070909M3	BS
09JUL09M	22	5561-001-0001-SA	OFF03062309	10-JUL-09 08:55:11	ST070909M2	ST070909M3	BS
09JUL09M	23	5561-002-0001-SA	OFF04062309	10-JUL-09 09:50:29	ST070909M2	ST070909M3	BS
09JUL09M	24	5562-001-0001-SA	CAMUS1062309	10-JUL-09 10:45:44	ST070909M2	ST070909M3	BS
09JUL09M	25	5562-002-0001-SA	CAMUS3062309	10-JUL-09 11:41:00	ST070909M2	ST070909M3	BS
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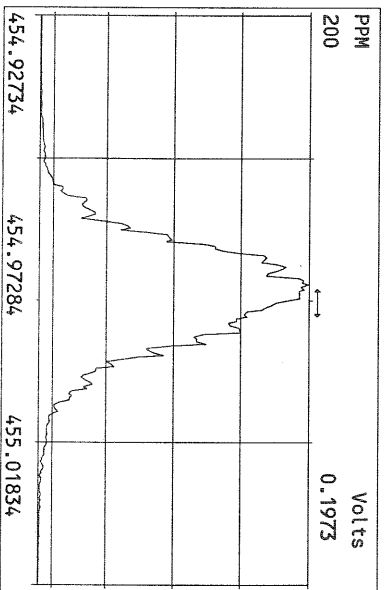
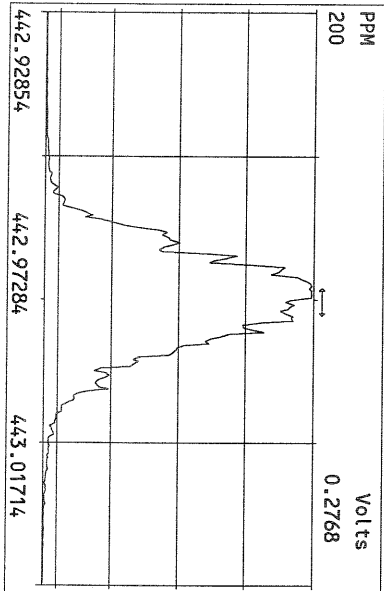
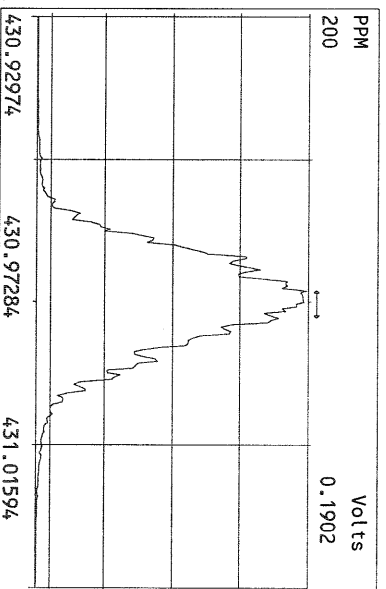
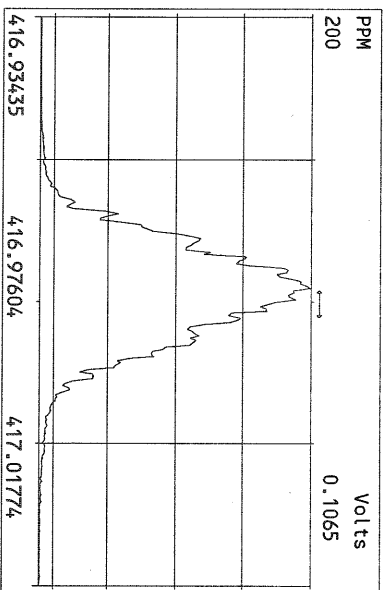
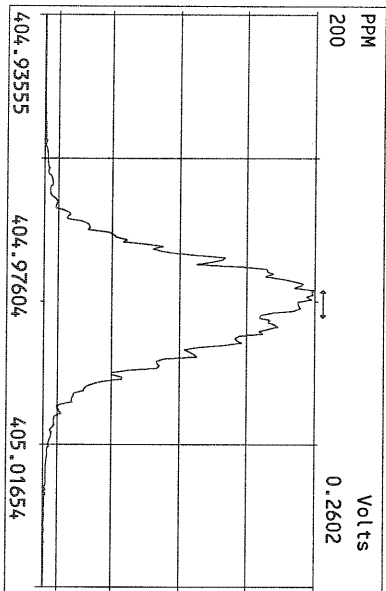
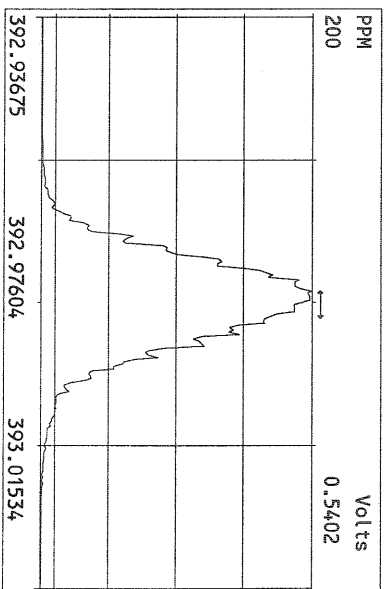
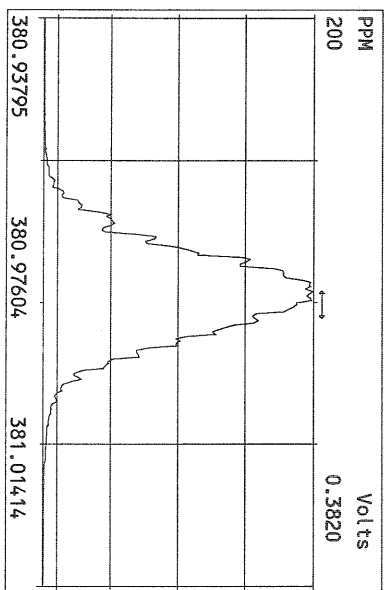
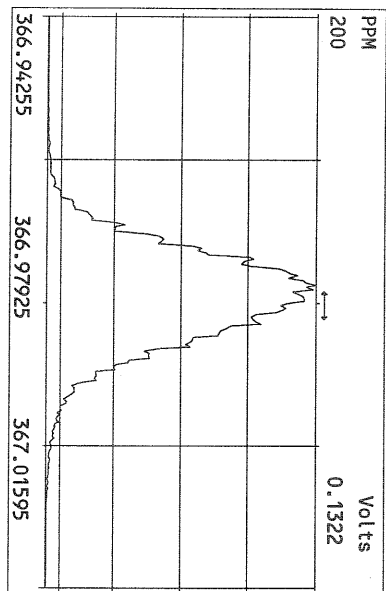
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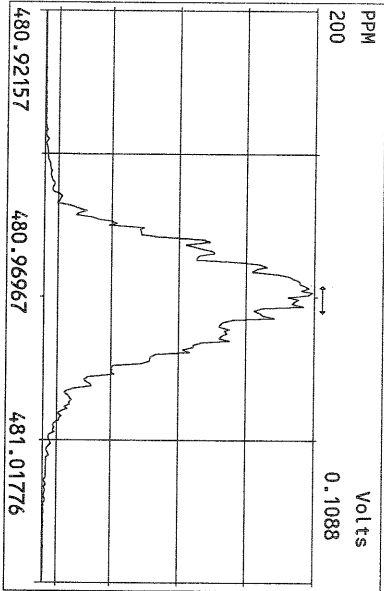
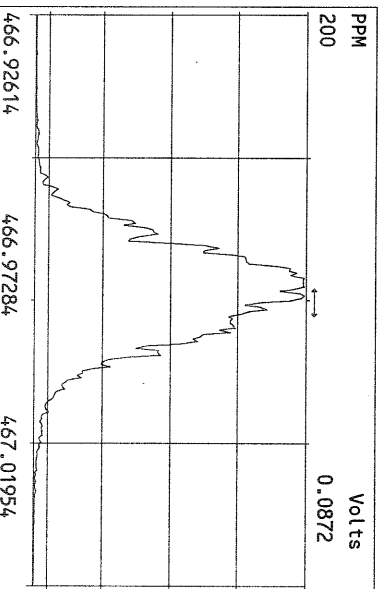
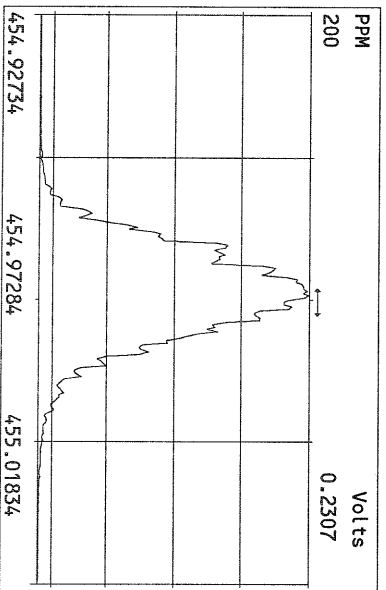
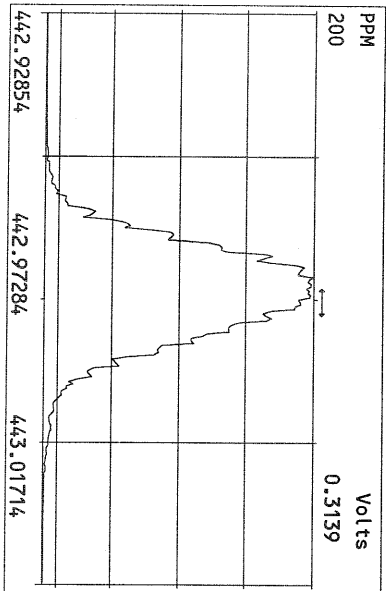
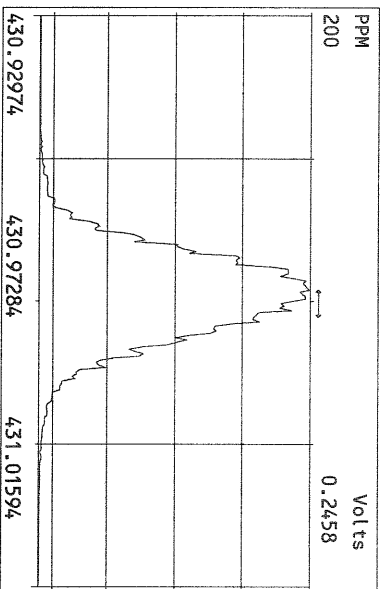
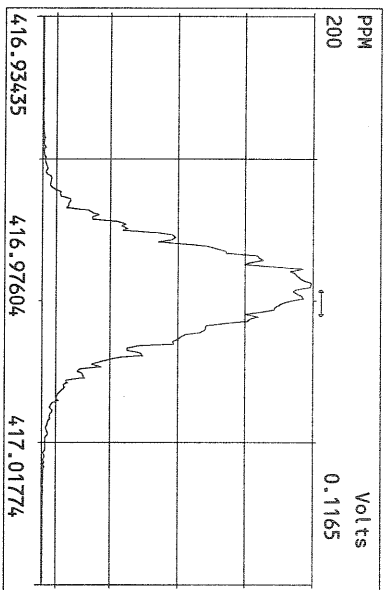
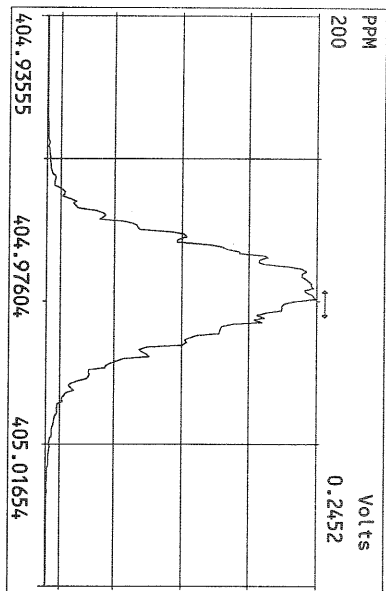
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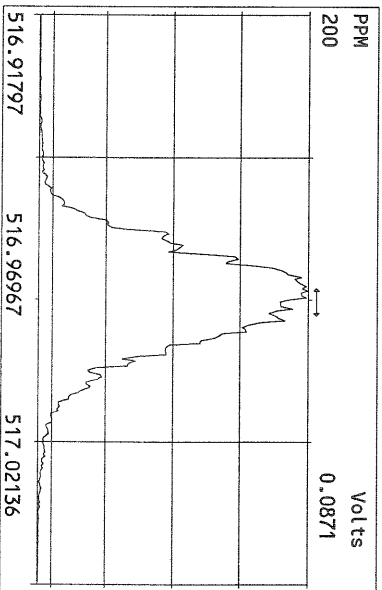
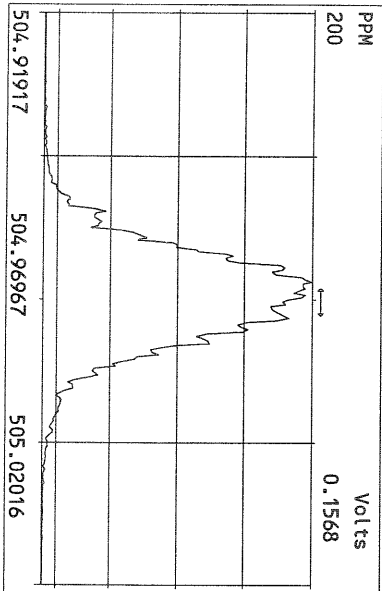
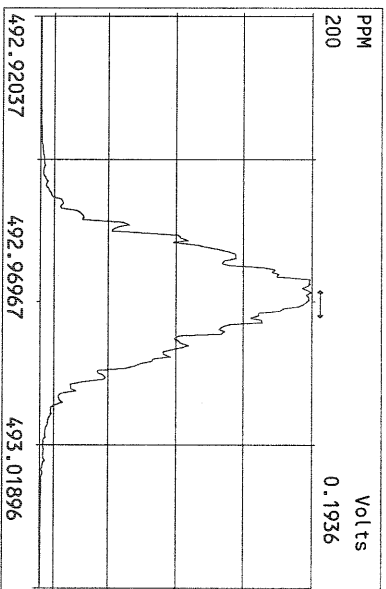
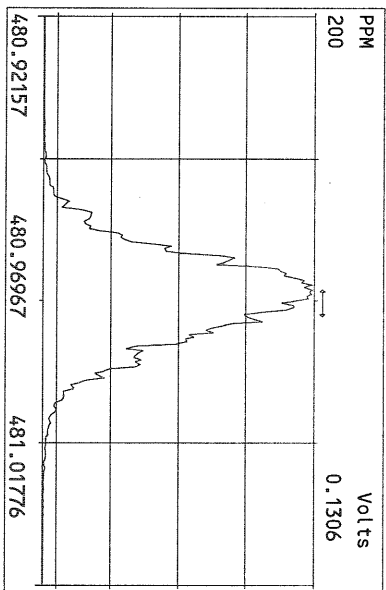
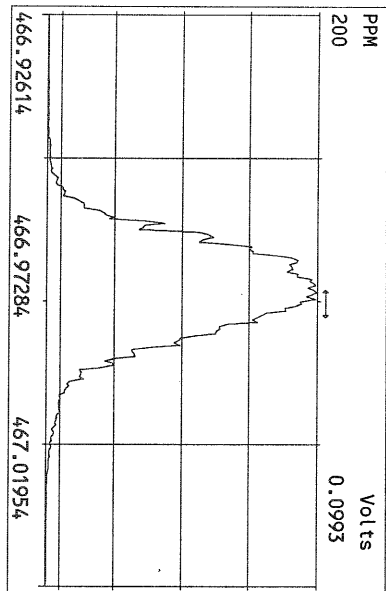
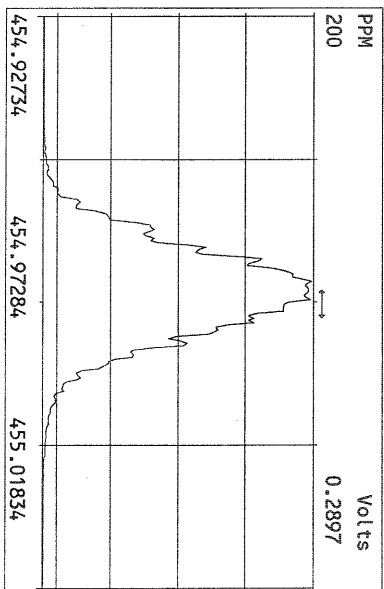
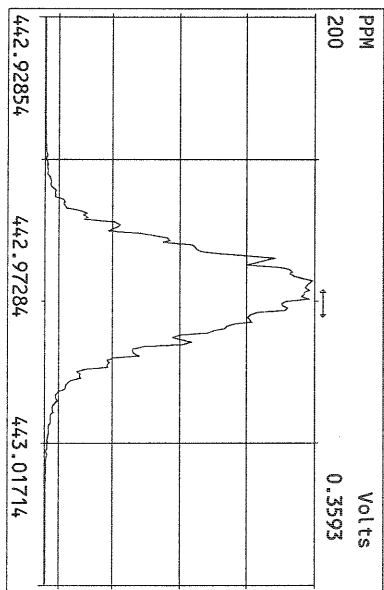
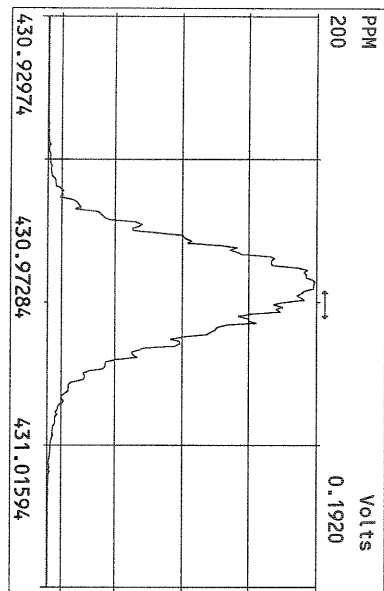
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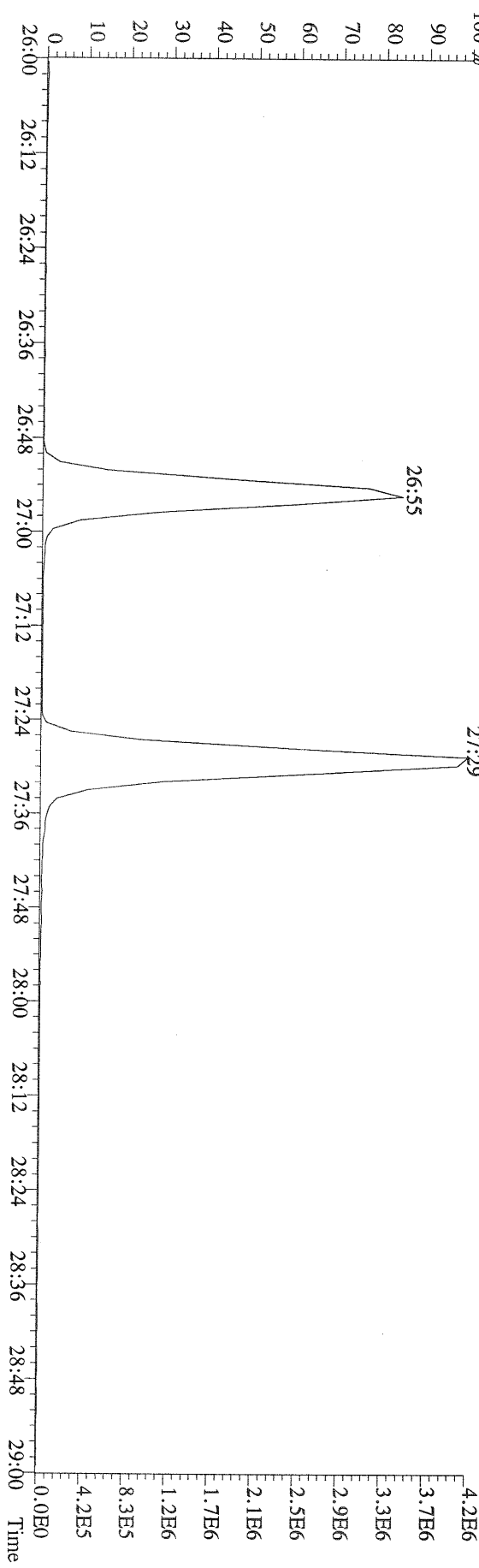
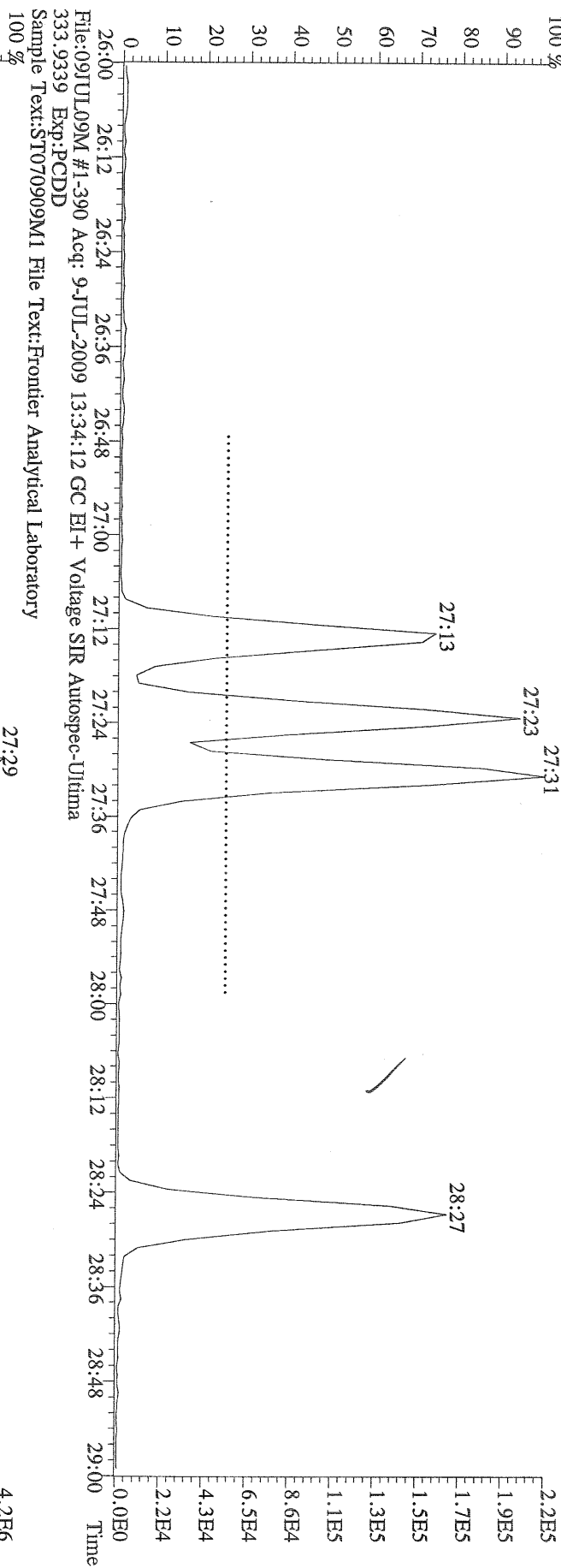




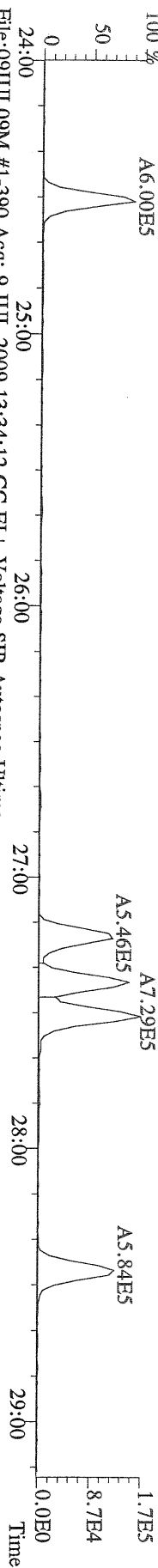




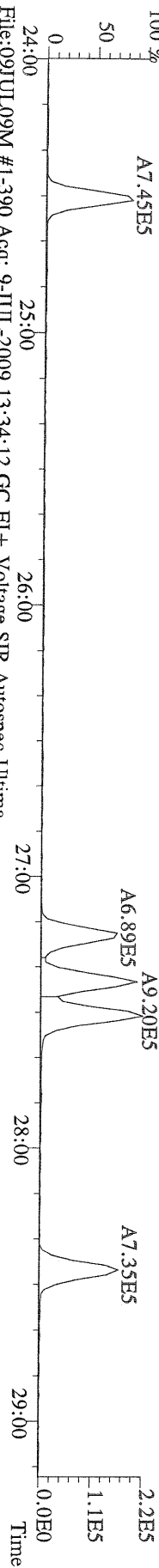
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321.8936 Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory
100 %



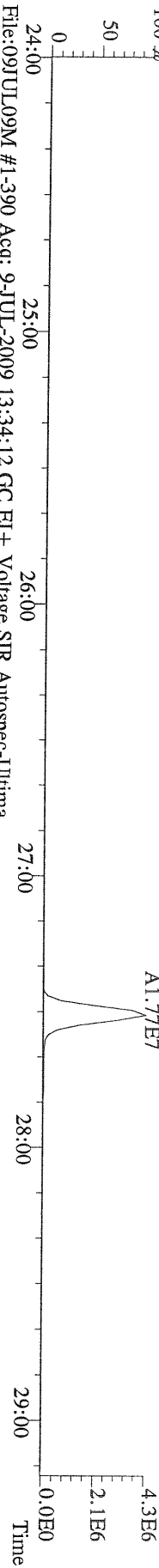
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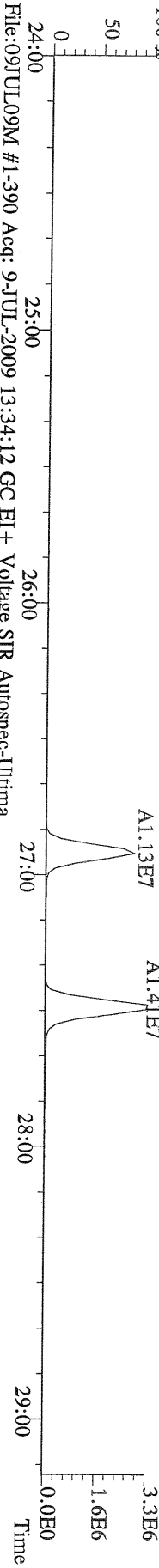
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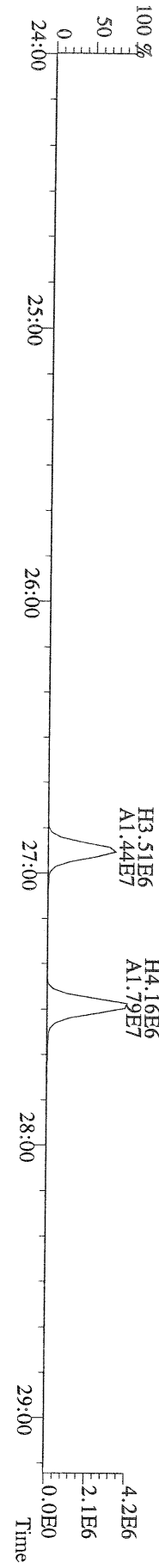
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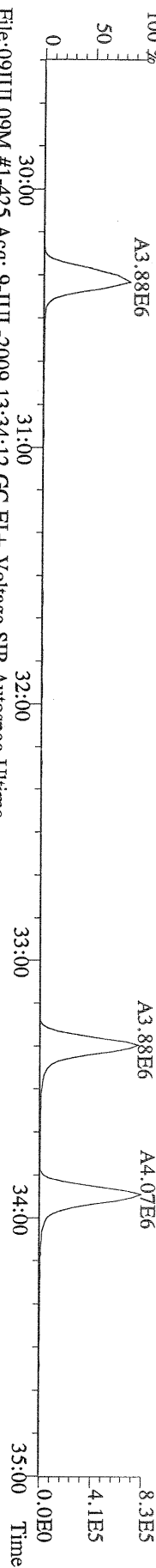
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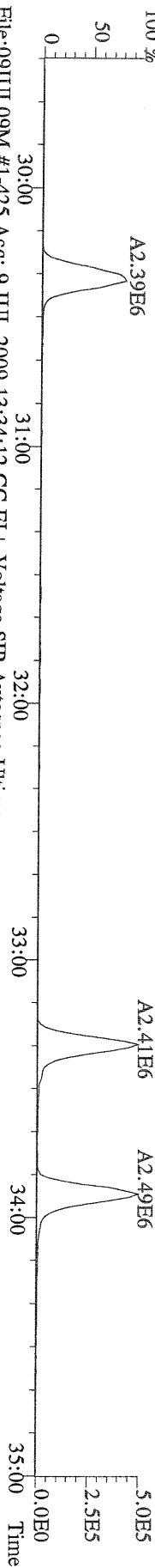
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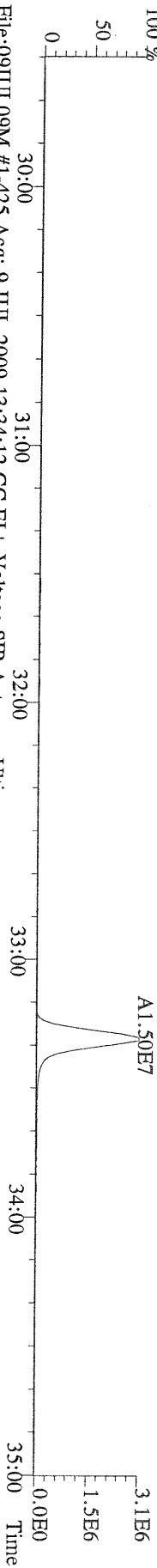
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355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory
100 %



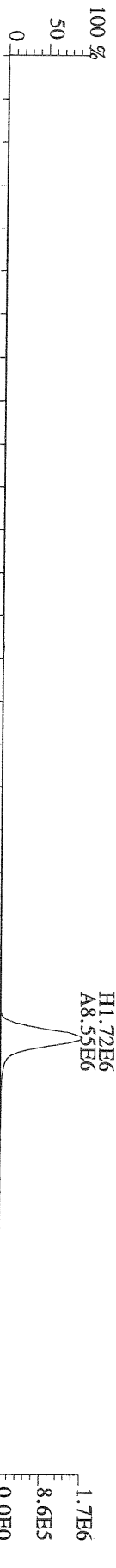
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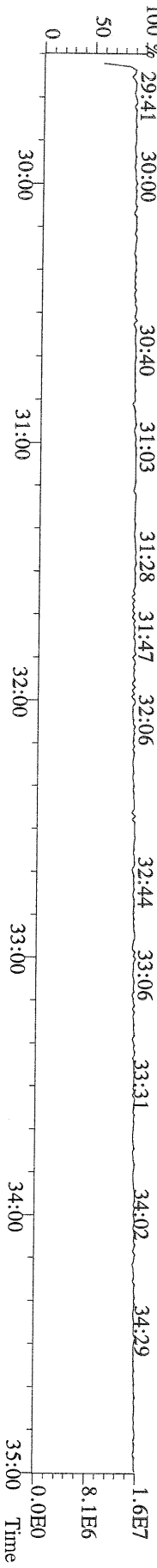
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Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory
100 %



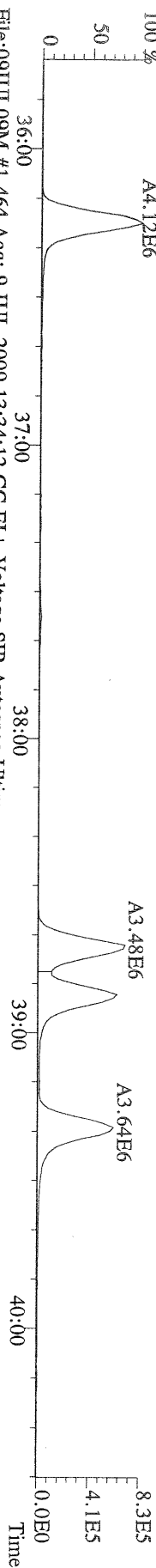
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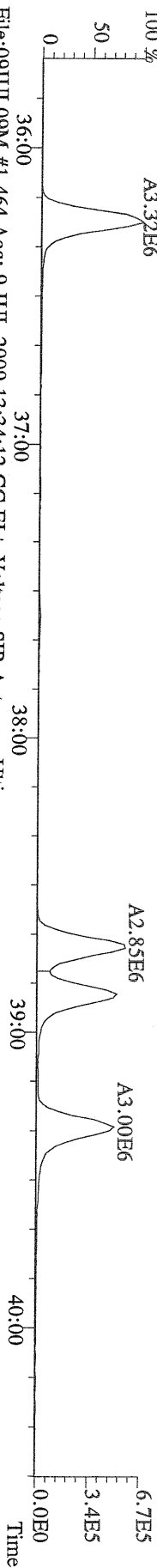
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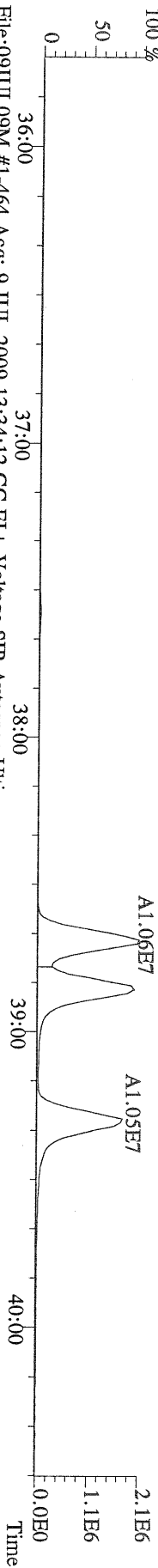
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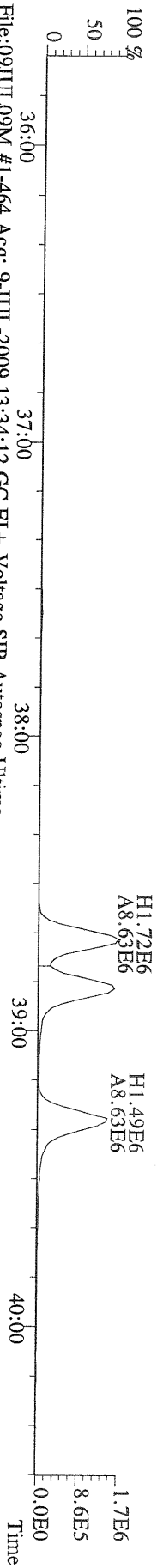
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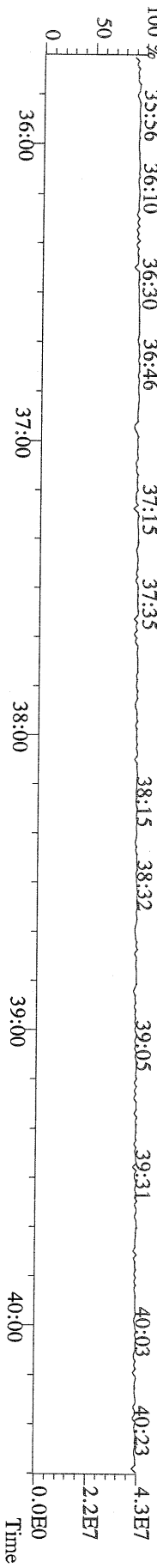
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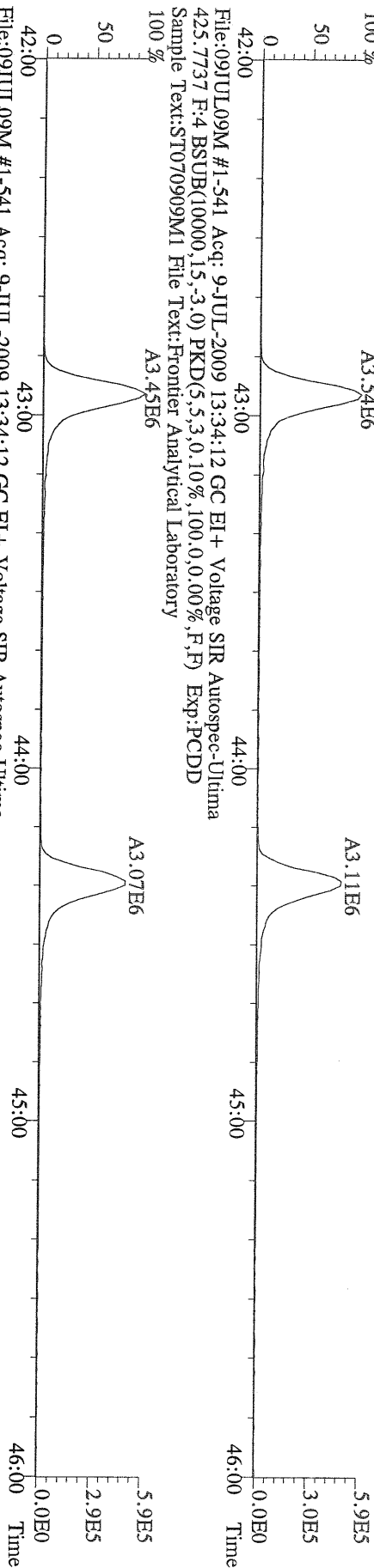
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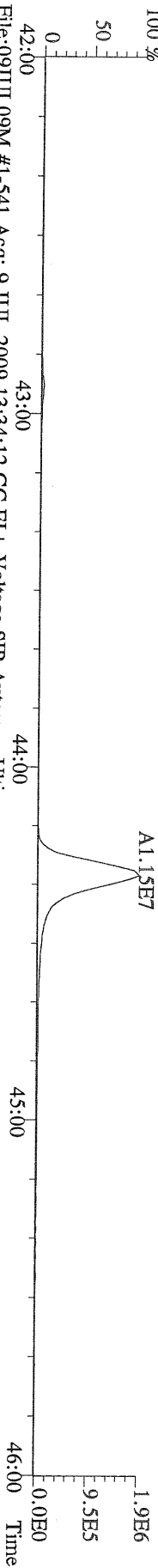
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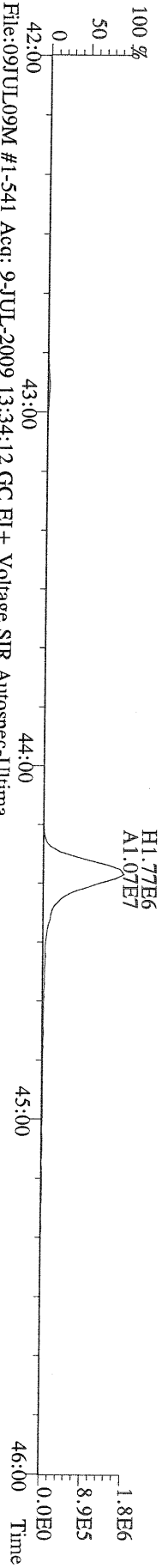
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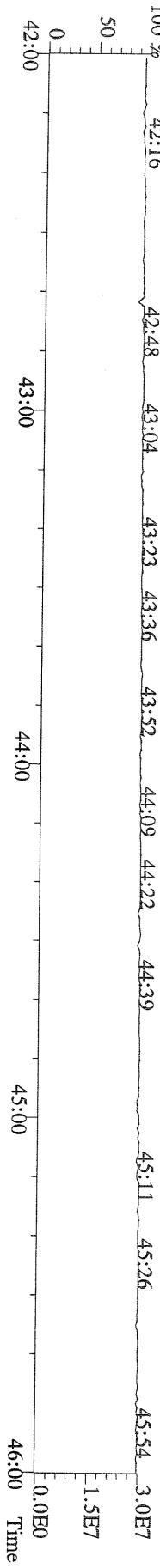
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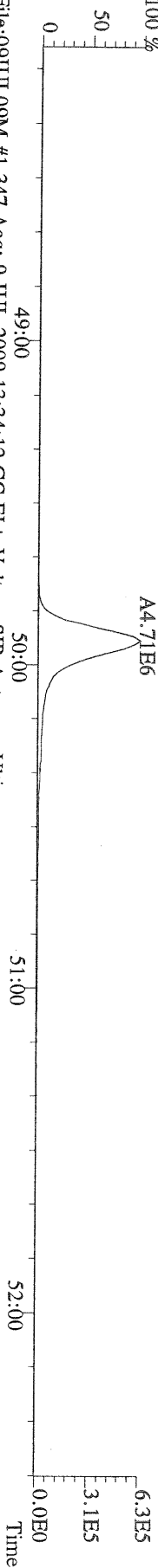
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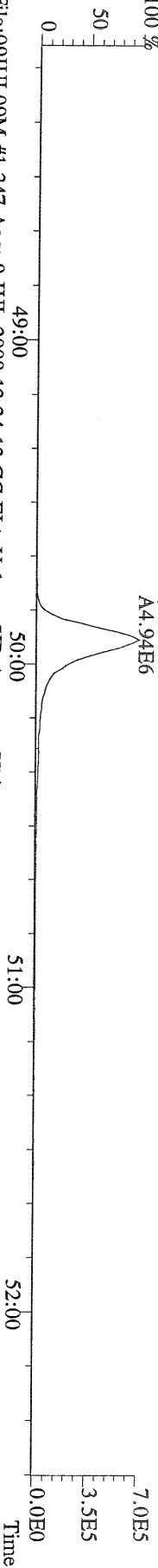
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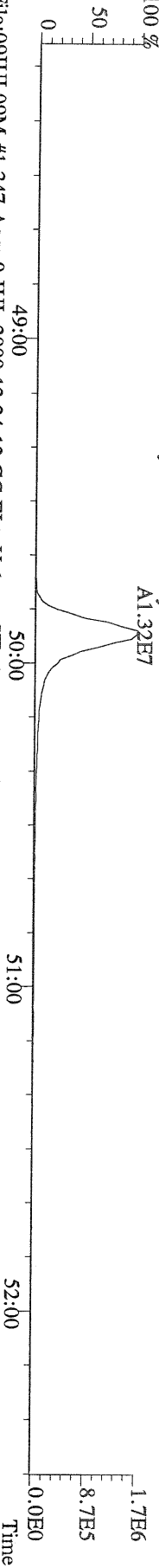
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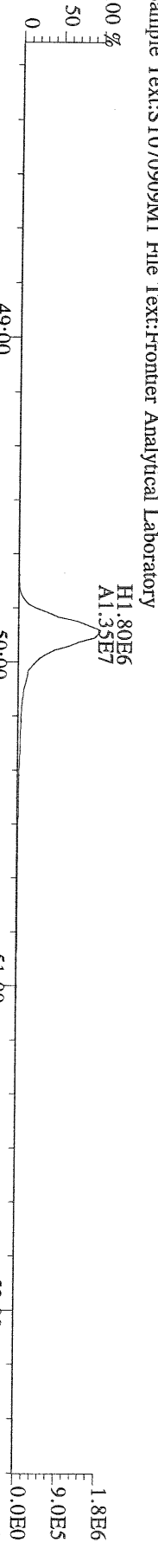
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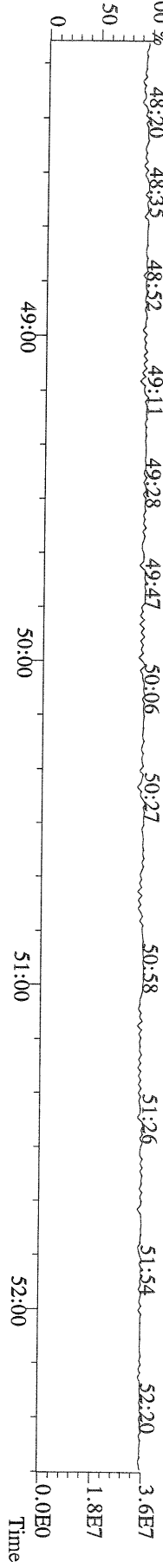
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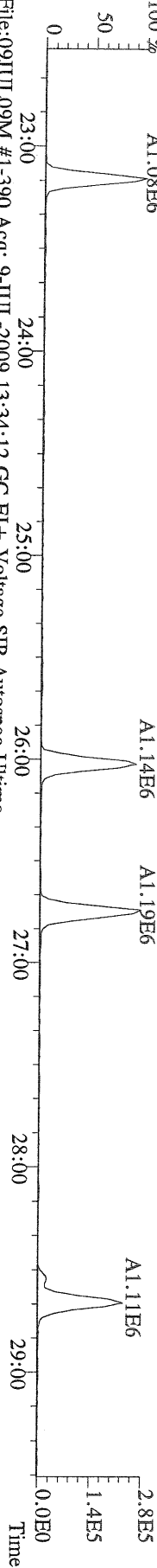
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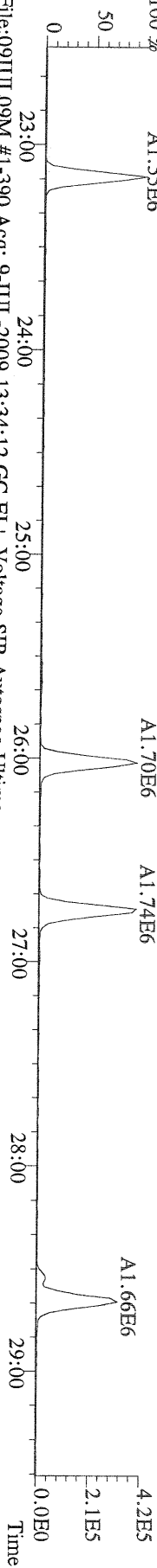
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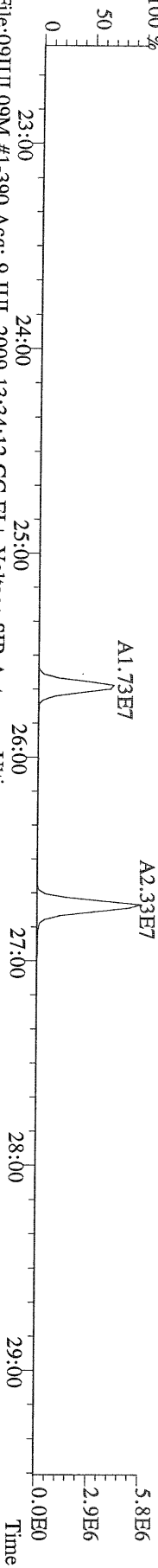
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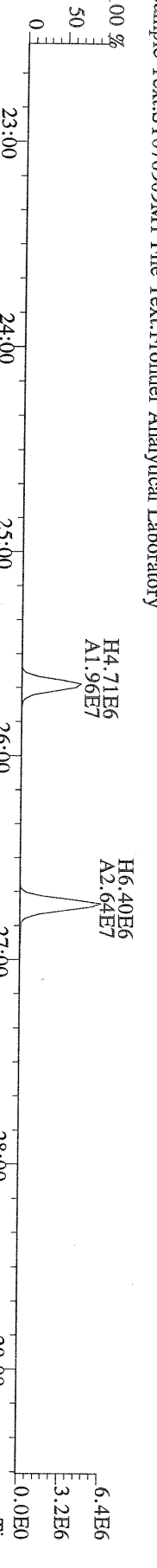
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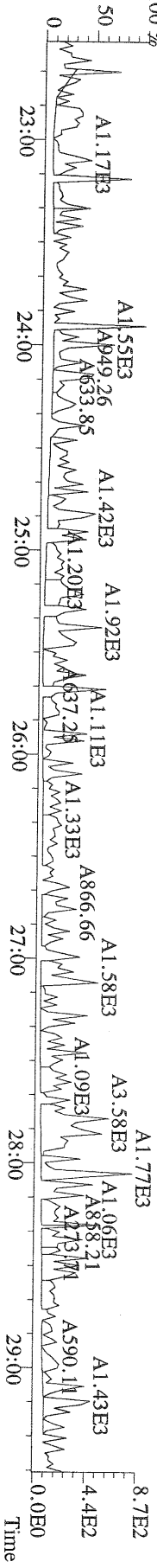
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315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



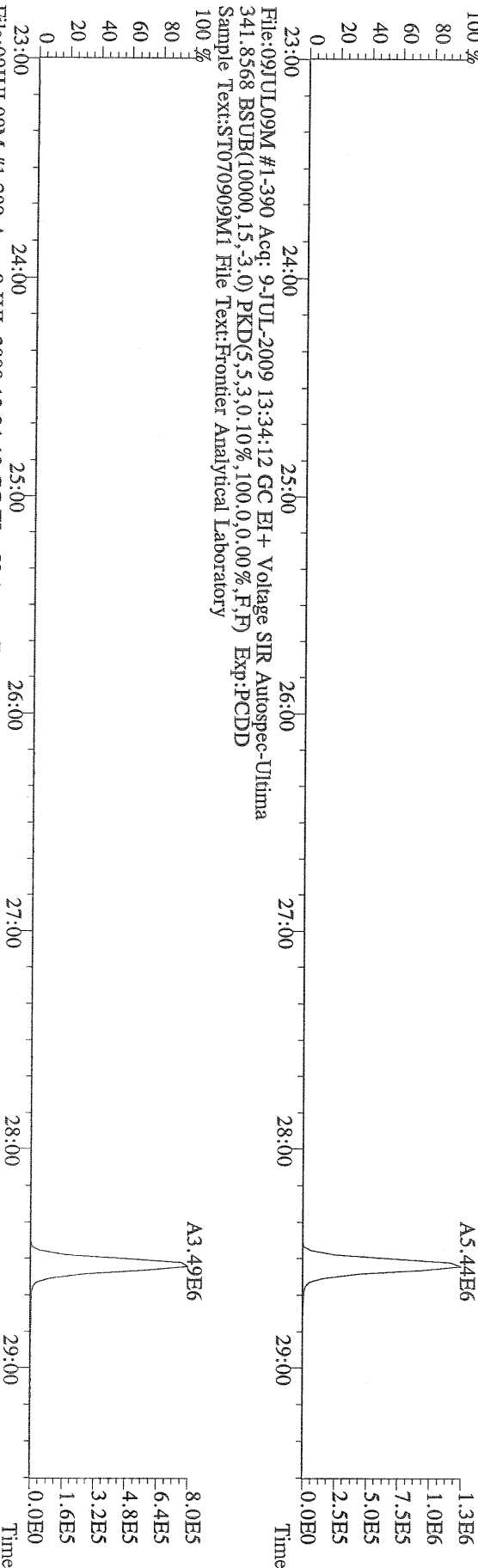
File:09JUL09M #1-390 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



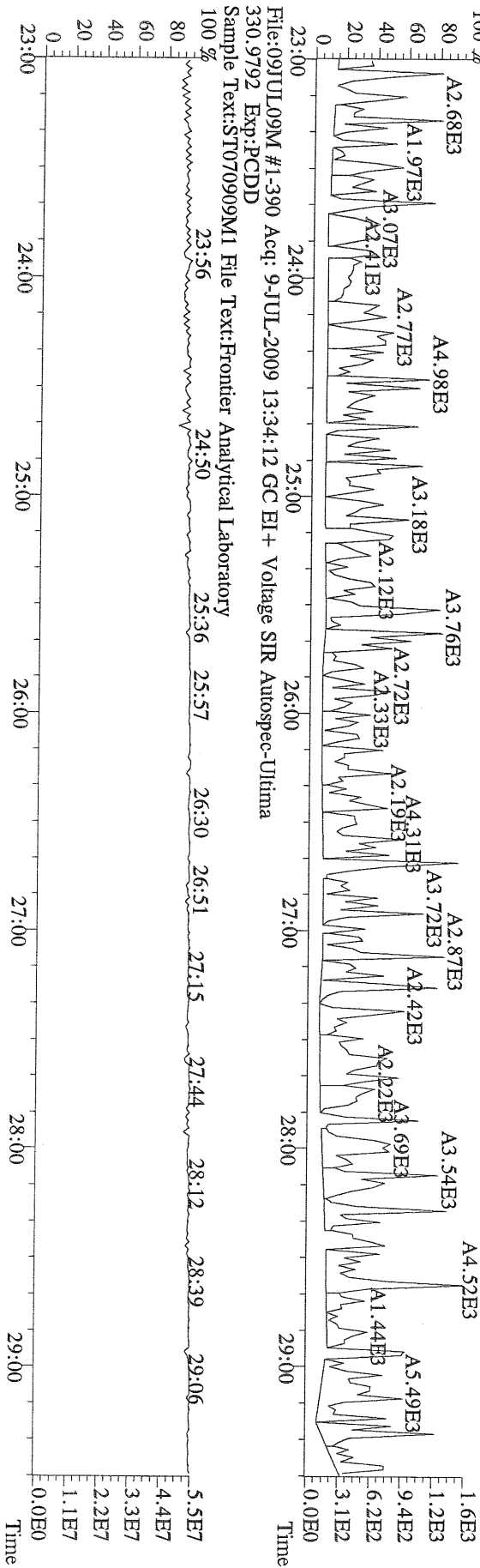
File:09JUL09M #1-390 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



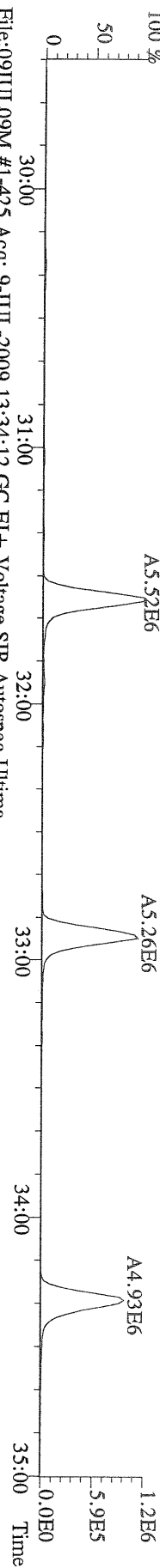
File:09JUL09M #1-390 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



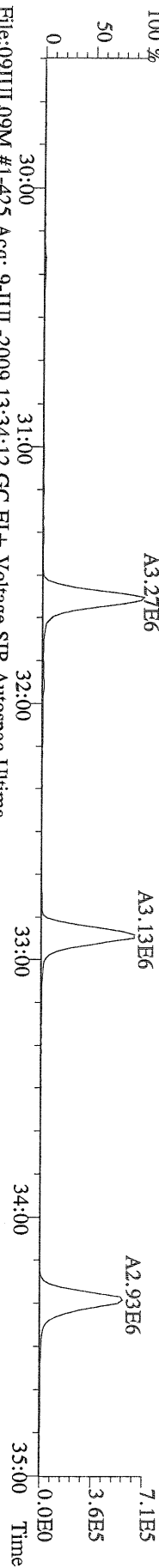
File:09JUL09M #1-390 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



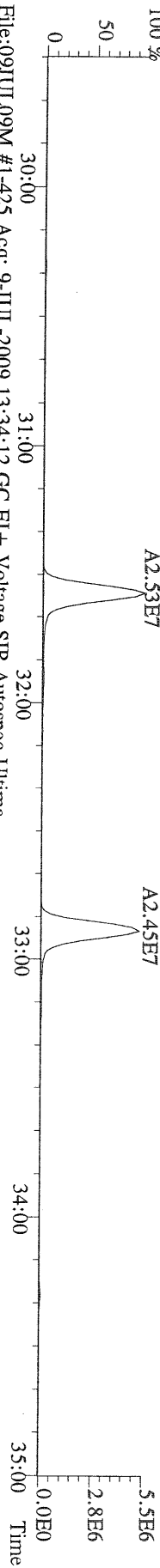
File:09JUL09M #1-425 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



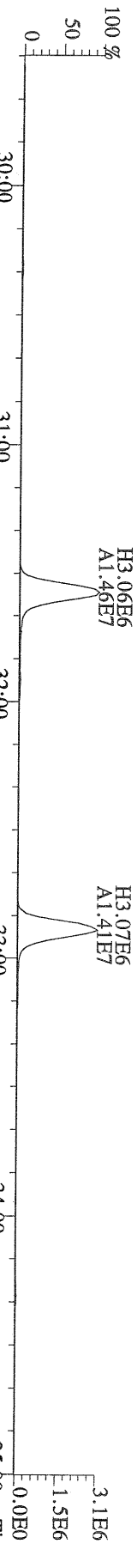
File:09JUL09M #1-425 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



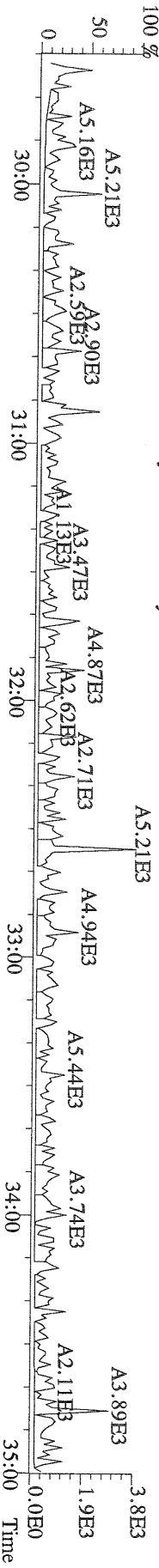
File:09JUL09M #1-425 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



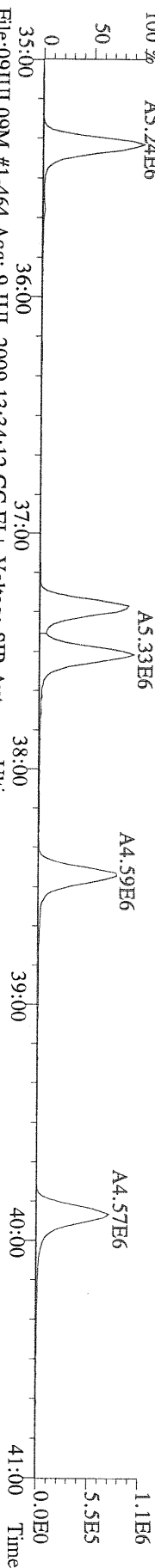
File:09JUL09M #1-425 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



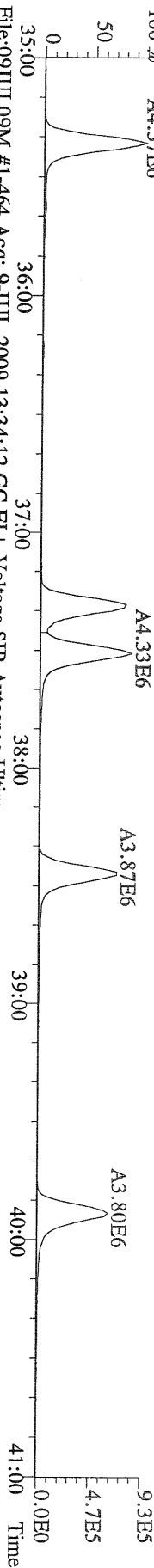
File:09JUL09M #1-425 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



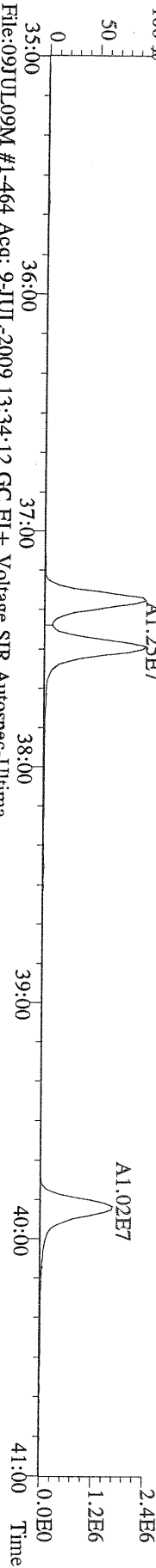
File:09JUL09M #1-464 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



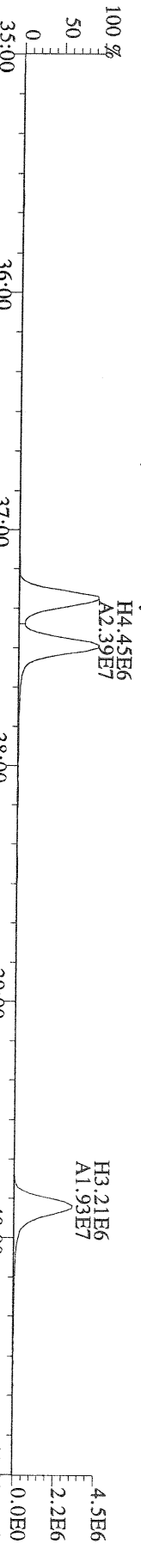
File:09JUL09M #1-464 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



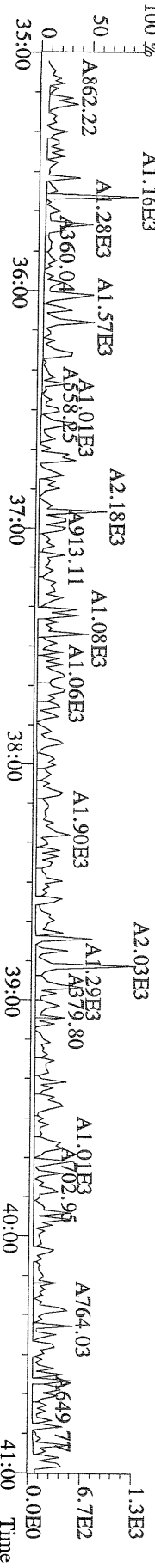
File:09JUL09M #1-464 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



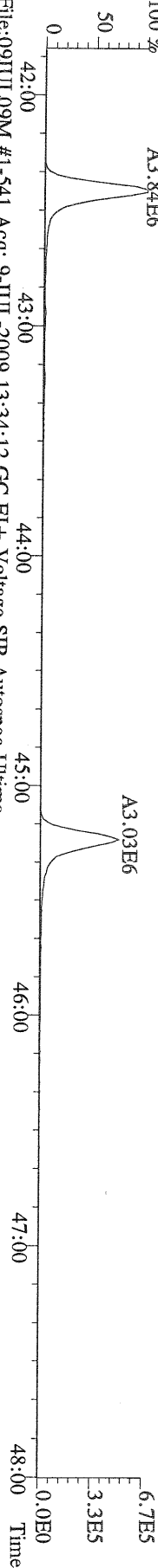
File:09JUL09M #1-464 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



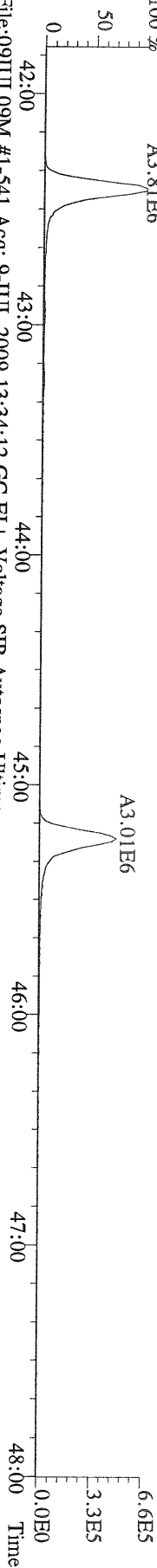
File:09JUL09M #1-464 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory



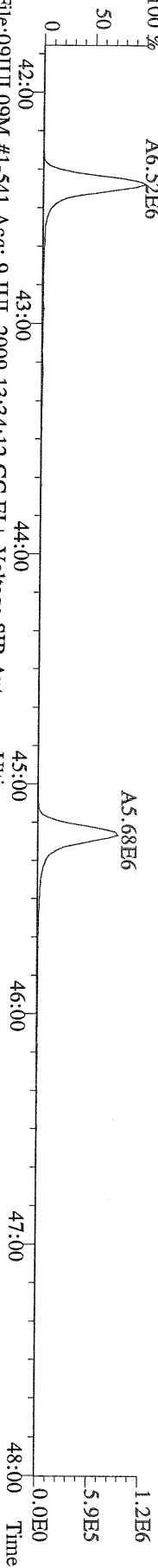
File:09JUL09M #1-541 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory
100 %



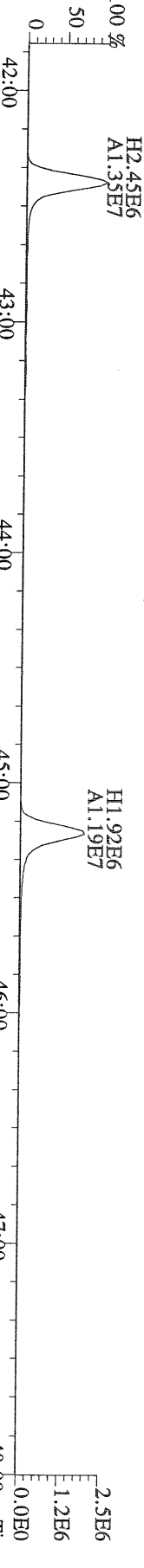
File:09JUL09M #1-541 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory
100 %



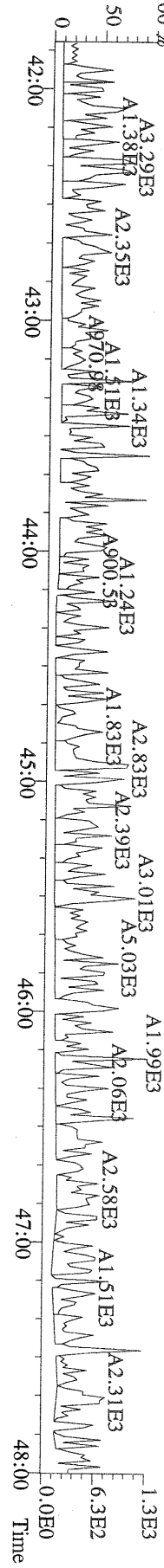
File:09JUL09M #1-541 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory
100 %



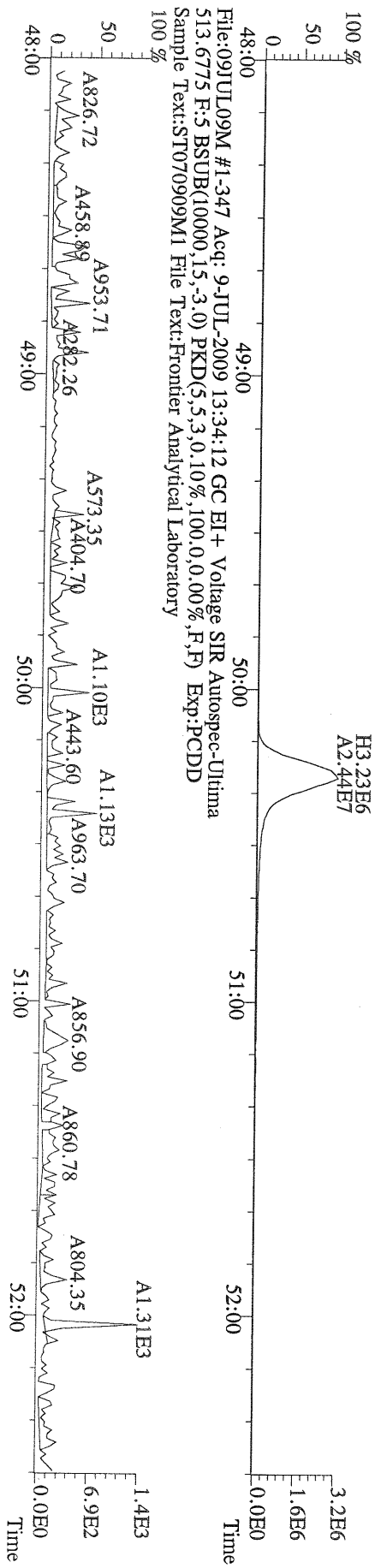
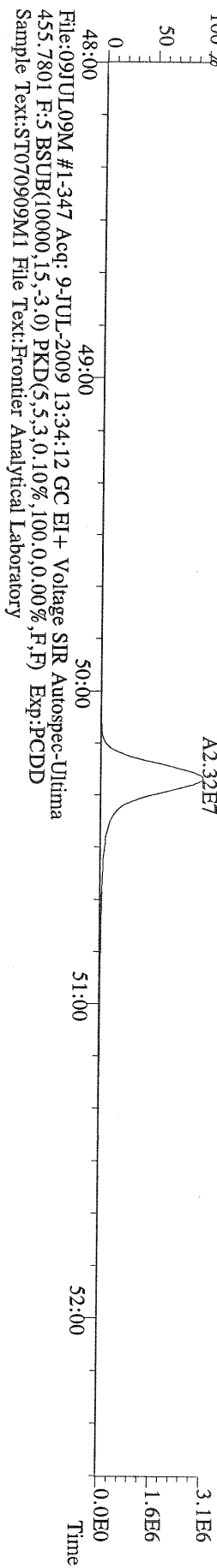
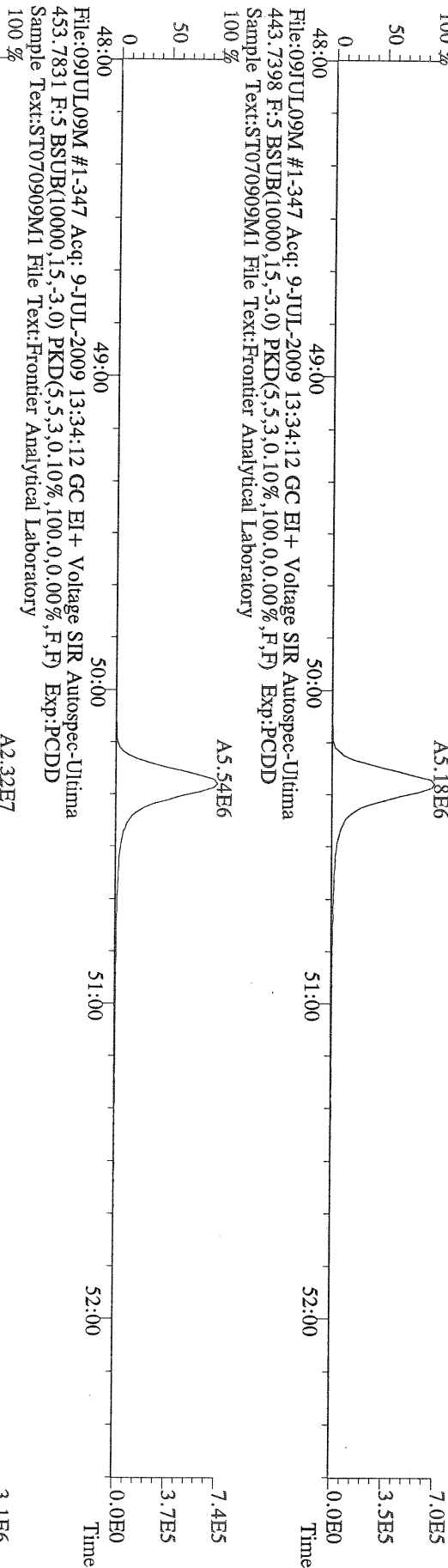
File:09JUL09M #1-541 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory

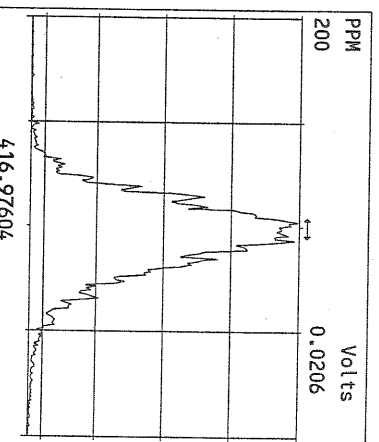
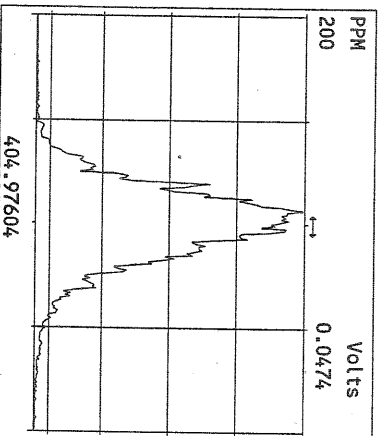
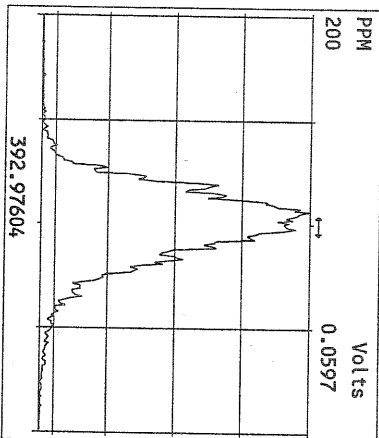
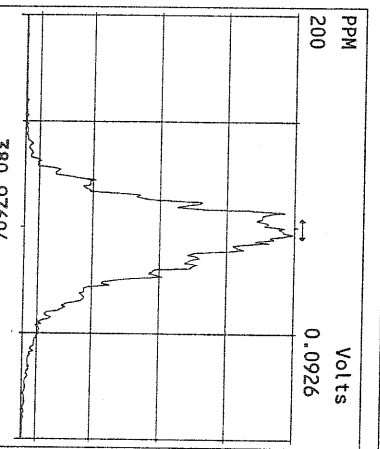
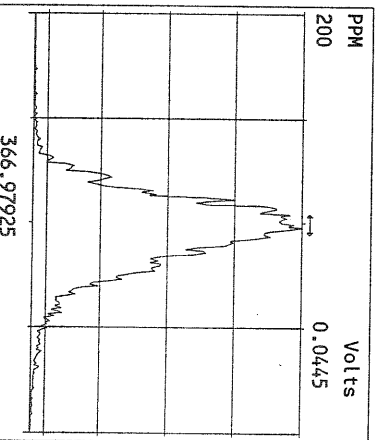
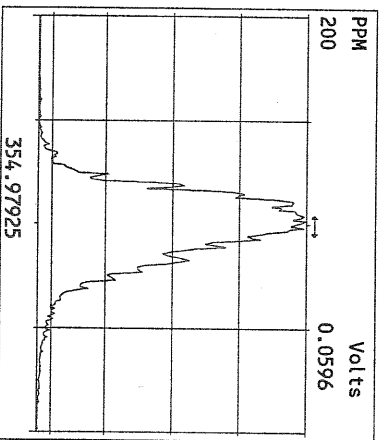
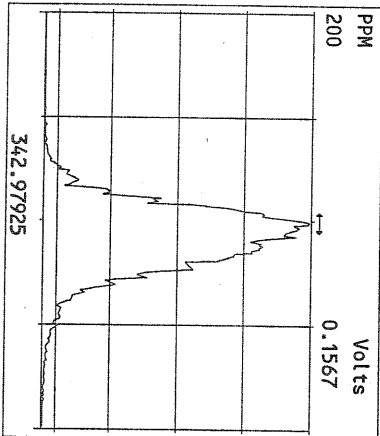
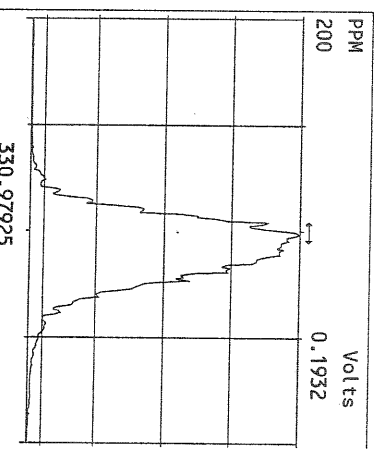
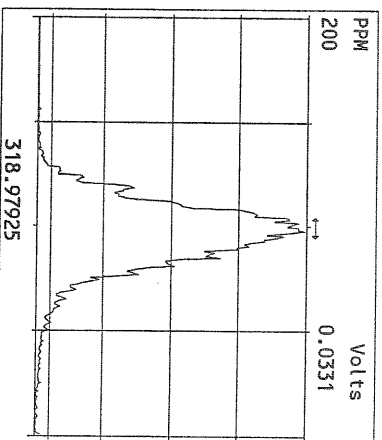
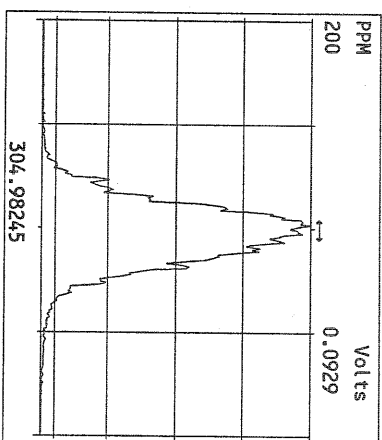
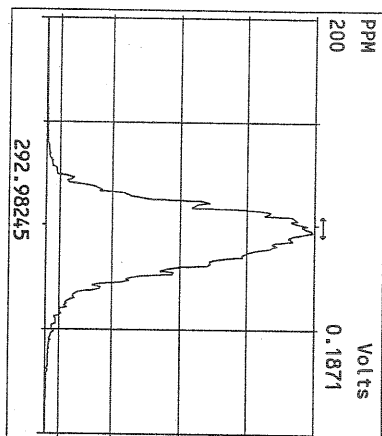


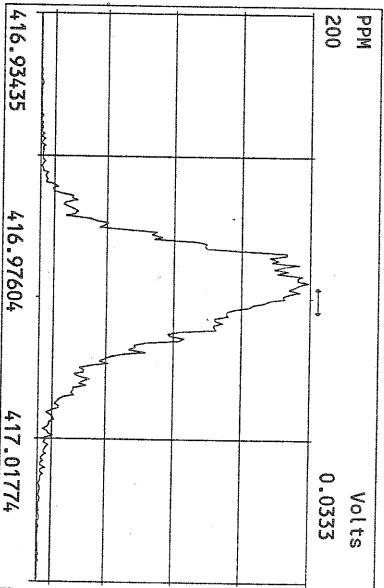
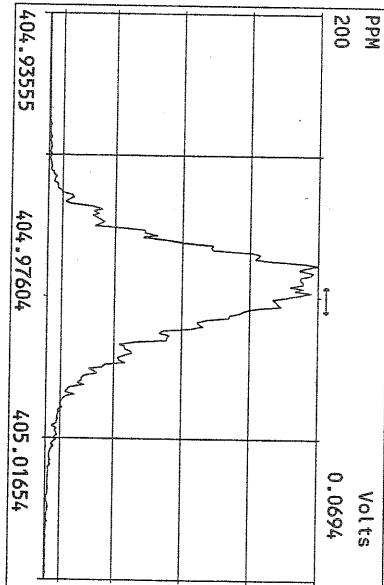
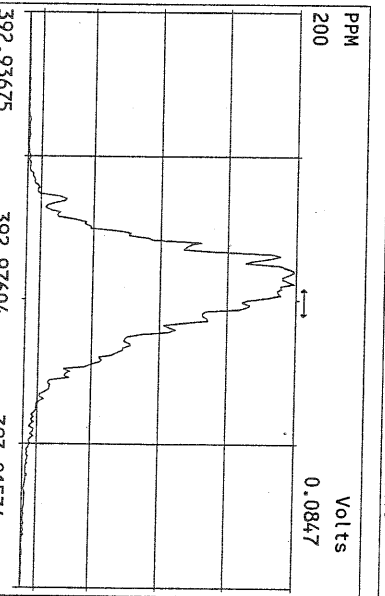
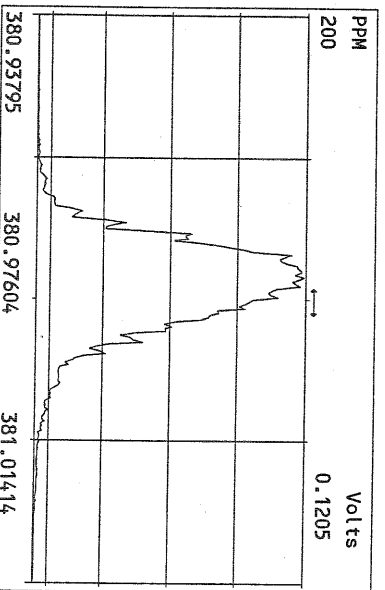
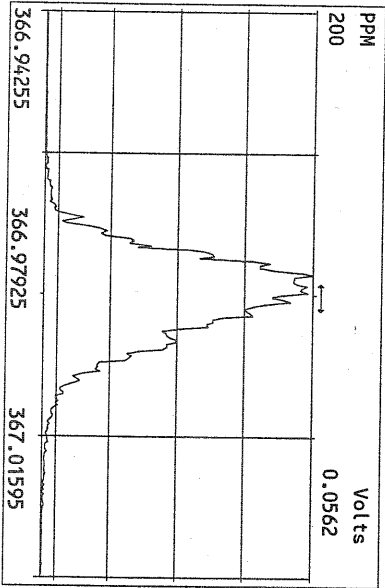
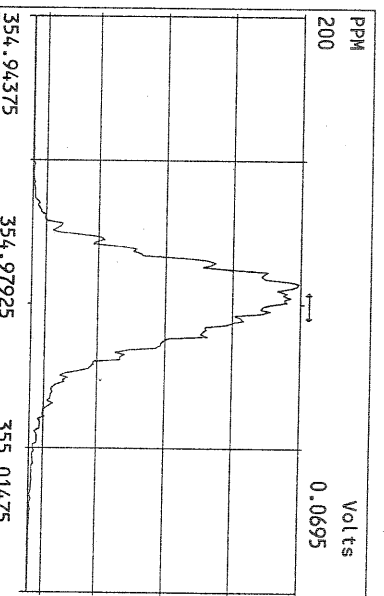
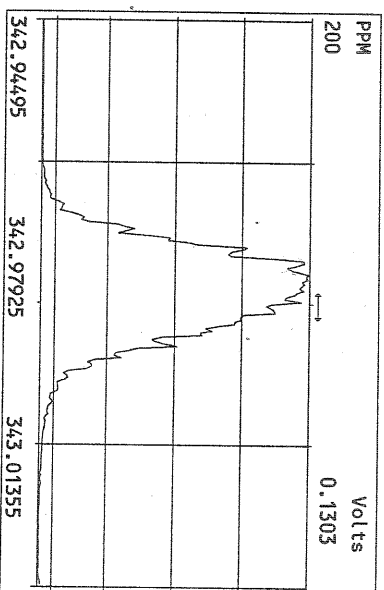
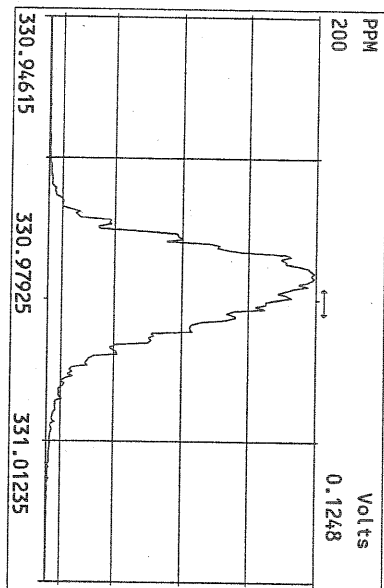
File:09JUL09M #1-541 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory

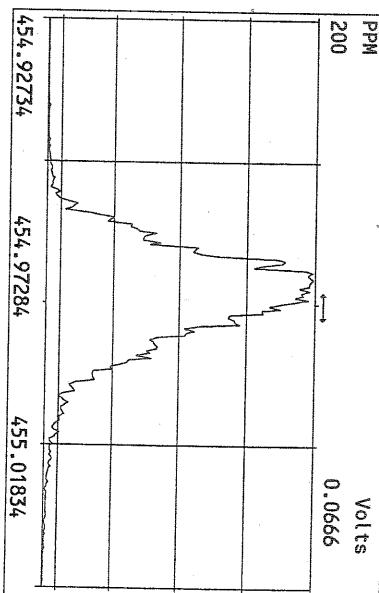
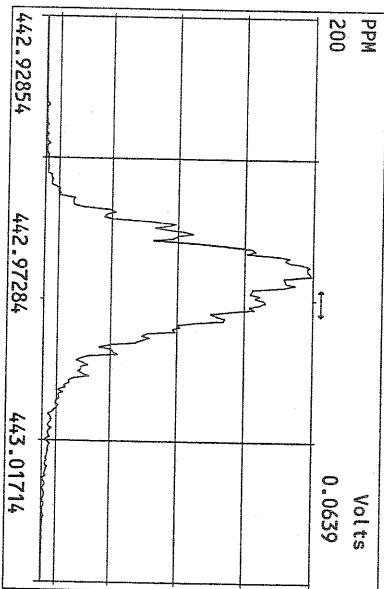
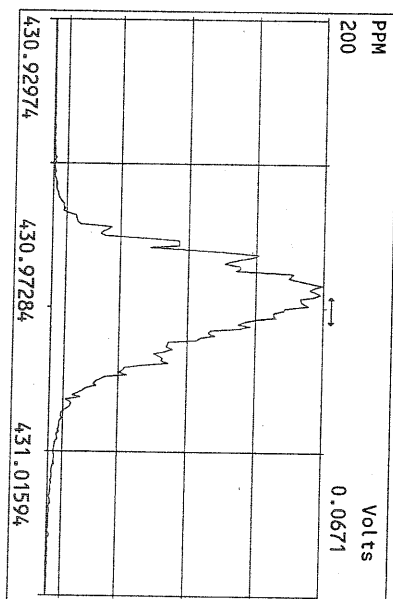
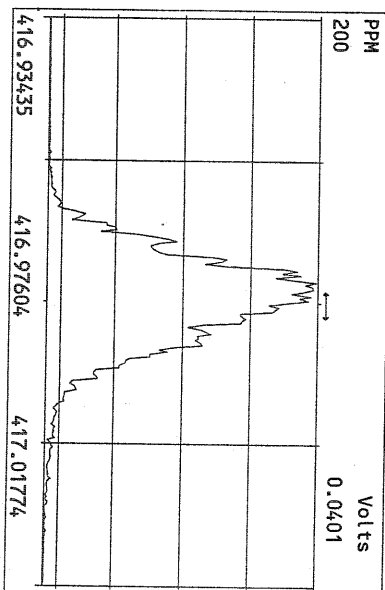
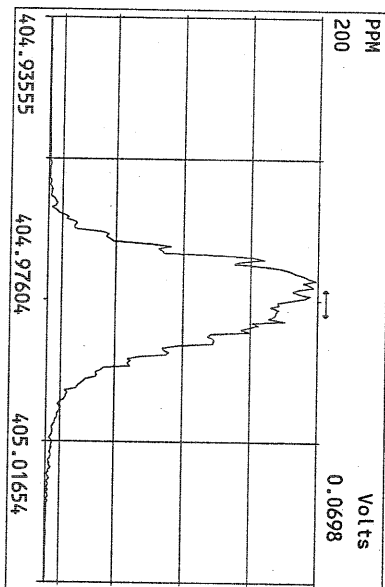
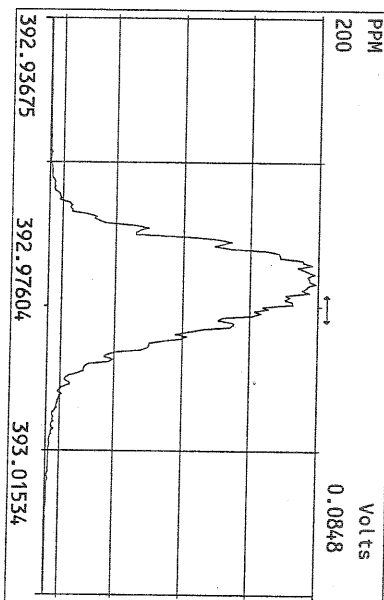
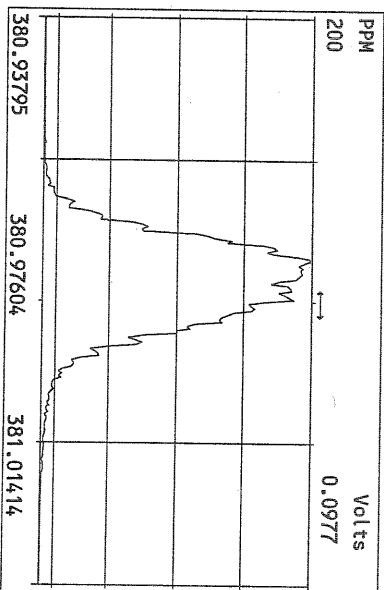
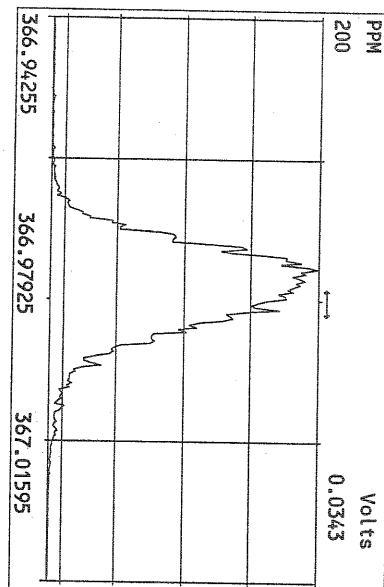


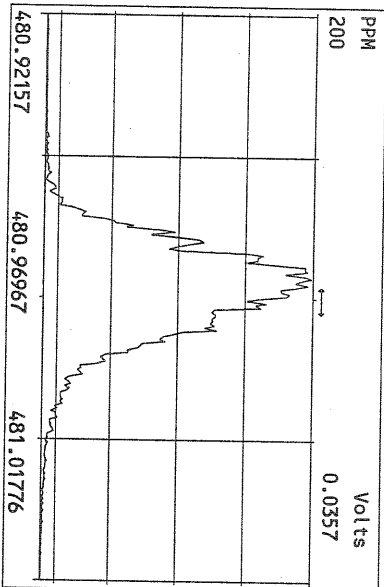
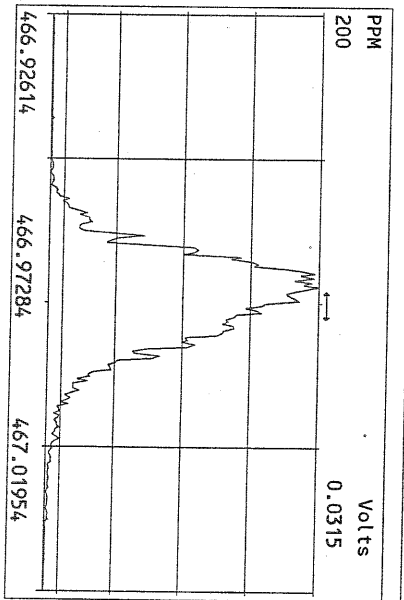
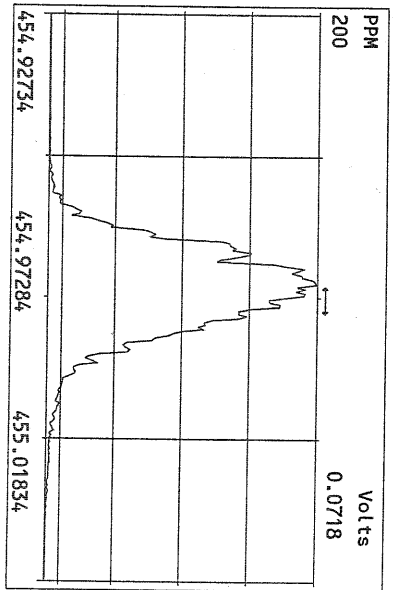
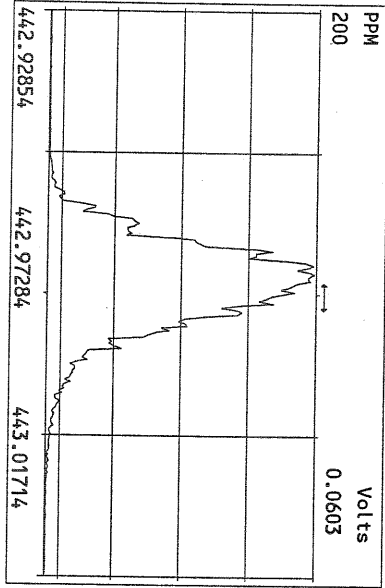
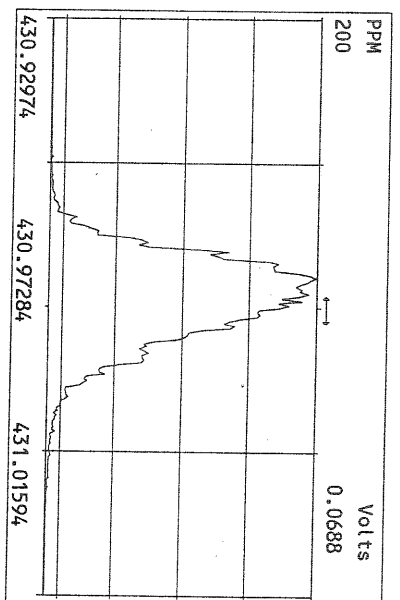
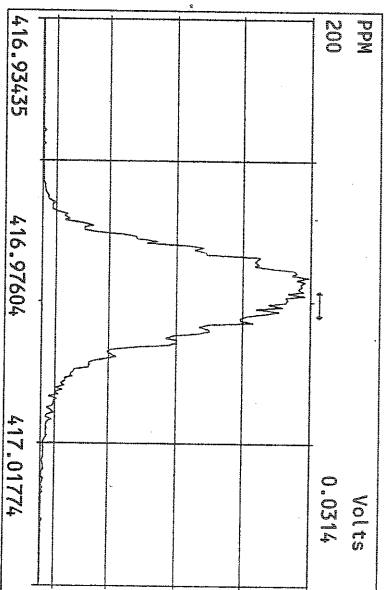
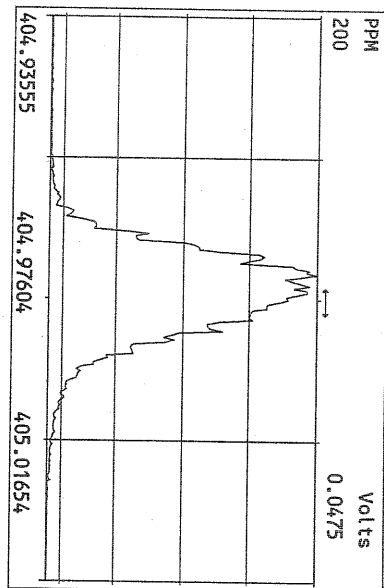
File:09JUL09M #1-347 Acq: 9-JUL-2009 13:34:12 GC EI+ Voltage SIR Autospec-Ultima
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M1 File Text:Frontier Analytical Laboratory
100 %



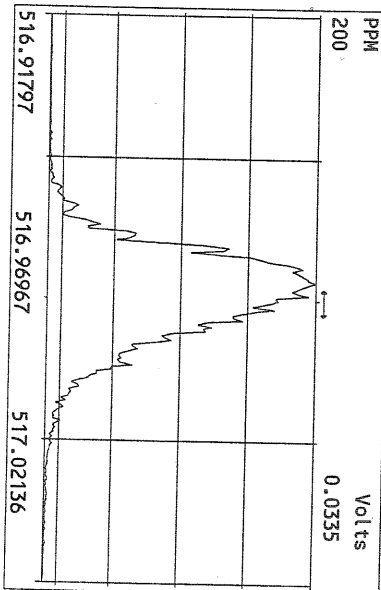
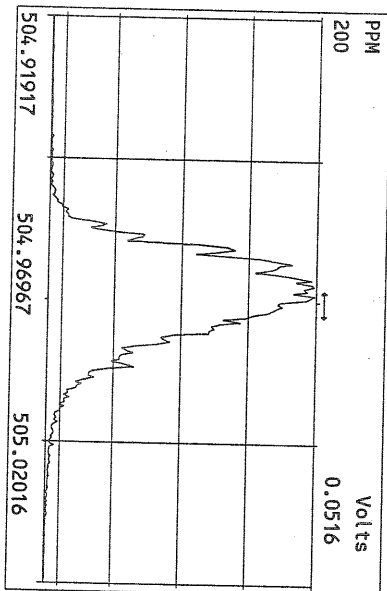
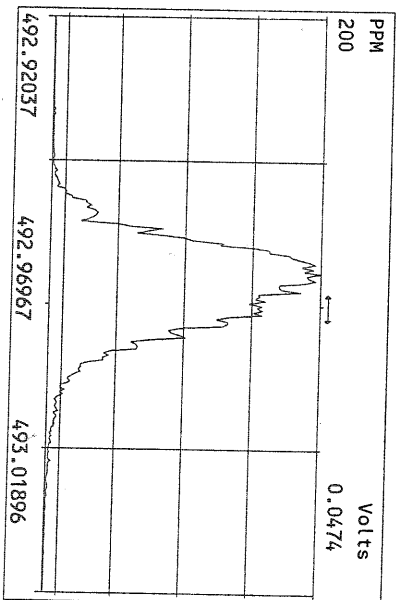
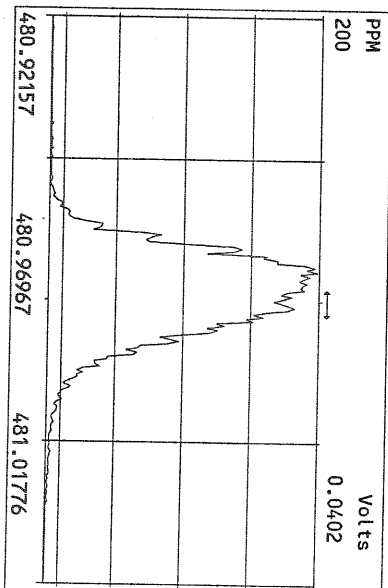
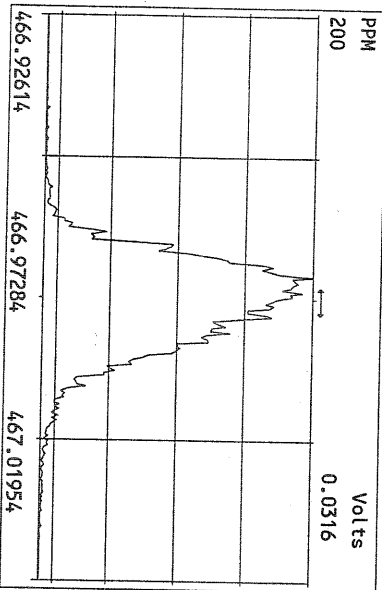
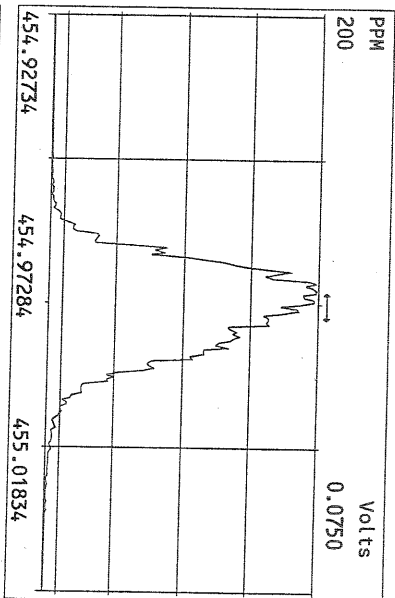
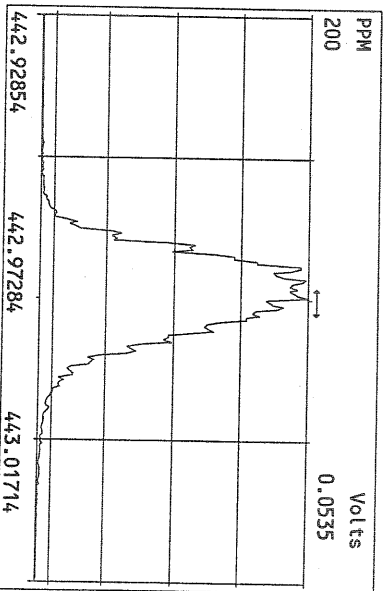
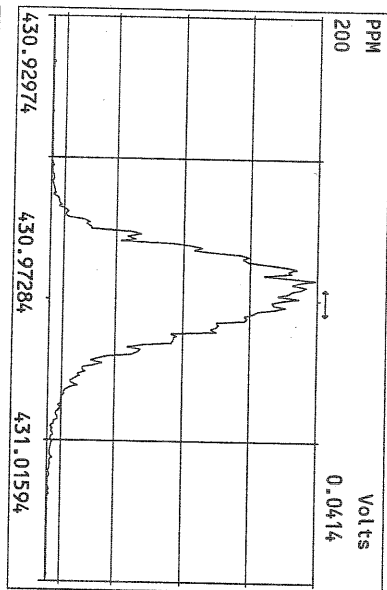








Peak Locate Examination:10-JUL-2009:13:36 File:09JUL09M_RES_CHECK
Experiment:PCDD Function:5 Reference:PFK



USEPA - ITD

AIR FORM 4A
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 6/29/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 09JUL09M Sam:15

Analysis Date: 10-JUL-09 02:28:22

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.78	0.65-0.89	y	4.01	3.75 - 6.25 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.63	1.32-1.78	y	21.6	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.23	1.05-1.43	y	20.7	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.22	1.05-1.43	y	23.3	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.29	1.05-1.43	y	21.6	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.99	0.88-1.20	y	22.6	18.7 - 31.2 ✓
OCDD	M+2/M+4	0.90	0.76-1.02	y	46.4	37.5 - 62.5 ✓
2,3,7,8-TCDF	M/M+2	0.69	0.65-0.89	y	4.97	3.75 - 6.25 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	22.2	18.7 - 31.2 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.32-1.78	y	22.2	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.18	1.05-1.43	y	22.0	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.19	1.05-1.43	y	22.9	18.7 - 31.2 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.19	1.05-1.43	y	22.6	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.21	1.05-1.43	y	21.8	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.92	0.88-1.20	y	22.2	18.7 - 31.2 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.99	0.88-1.20	y	22.4	18.7 - 31.2 ✓
OCDF	M+2/M+4	0.89	0.76-1.02	y	45.8	35.0 - 65.0 ✓

Analyst: 8Date: 7/10/09

USEPA - ITD

AIR FORM 4B
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 6/29/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 09JUL09M

Sam:15

Analysis Date: 10-JUL-09 02:28:22

LABELED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	104	75.0 - 125 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.75	1.32-1.78	y	101	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	113	75.0 - 125 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	0.88-1.20	y	99.5	70.0 - 130 ✓
13C-OCDD	M+2/M+4	0.97	0.76-1.02	y	176	140 - 260 ✓
13C-2,3,7,8-TCDF	M/M+2	0.88	0.65-0.89	y	106	70.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.70	1.32-1.78	y	108	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	102	70.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.46	0.37-0.51	y	84.4	70.0 - 130 ✓
13C-OCDF	M+2/M+4	0.98	0.76-1.02	y	175	140 - 260 ✓
CLEANUP SURROGATE						
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	96.2	75.0 - 125 ✓
PRE-SPIKE SURROGATE						
37Cl-2,3,7,8-TCDD					95.9	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	83.3	75.0 - 125 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.72	1.32-1.78	y	102	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	91.8	75.0 - 125 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.42	0.37-0.51	y	99.5	75.0 - 125 ✓

Analyst: Date: 7/10/09

Lab Name: Frontier Analytical Laboratory	Episode No.:
Contract No.:	SAS No.:
Instrument ID: FAL3	Initial Calibration Date: 6/29/09
RT Window Data Filename: 09JUL09M Sam:15	Analysis Date: 10-JUL-09 Time: 02:28:22
DB-5 IS Data Filename: 09JUL09M Sam:15	Analysis Date: 10-JUL-09 Time: 02:28:22
DB-225 IS Date Filename:	Analysis Date: Time:

ABSOLUTE		ABSOLUTE	
ISOMERS	RT	ISOMERS	RT
1,3,6,8-TCDD (F)	24:30 ✓	1,3,6,8-TCDF (F)	23:08 ✓
1,2,8,9-TCDD (L)	28:26 ✓	1,2,8,9-TCDF (L)	28:39 ✓
1,2,4,7,9-PeCDD (F)	30:21 ✓	1,3,4,6,8-PeCDF (F)	28:31 ✓
1,2,3,8,9-PeCDD (L)	33:54 ✓	1,2,3,8,9-PeCDF (L)	34:18 ✓
1,2,4,6,7,9-HxCDD (F)	36:14 ✓	1,2,3,4,6,8-HxCDF (F)	35:21 ✓
1,2,3,7,8,9-HxCDD (L)	39:19 ✓	1,2,3,7,8,9-HxCDF (L)	39:53 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:56 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:25 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:20 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:14 ✓

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

Analyst: Date: 7/10/09

Results:

GC Column: DB5

Amount: 1.000

NATO 1989 Tox: 43.8

WHO 1998 Tox: 54.5

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
2,3,7,8-TCDD	7.17e+05	0.78 y	27:30	1.14	4.01		2.50	-	*	
1,2,3,7,8-PeCDD	2.57e+06	1.63 y	33:19	1.14	21.6		2.50	-	*	
1,2,3,4,7,8-HxCDD	2.44e+06	1.23 y	38:41	1.37	20.7		2.50	-	*	
1,2,3,6,7,8-HxCDD	2.48e+06	1.22 y	38:52	1.24	23.3		2.50	-	*	
1,2,3,7,8,9-HxCDD	2.51e+06	1.29 y	39:19	1.35	21.6		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	2.05e+06	0.99 y	44:20	1.15	22.6		2.50	-	*	
OCDD	2.83e+06	0.90 y	49:55	1.43	46.4		2.50	-	*	
2,3,7,8-TCDF	1.25e+06	0.69 y	26:44	1.14	4.97		2.50	-	*	
1,2,3,7,8-PeCDF	3.25e+06	1.66 y	31:35	0.90	22.2		2.50	-	*	
2,3,4,7,8-PeCDF	3.08e+06	1.65 y	32:53	0.86	22.2		2.50	-	*	
1,2,3,4,7,8-HxCDF	3.08e+06	1.18 y	37:18	1.02	22.0		2.50	-	*	
1,2,3,6,7,8-HxCDF	3.27e+06	1.19 y	37:31	1.04	22.9		2.50	-	*	
2,3,4,6,7,8-HxCDF	2.91e+06	1.19 y	38:26	0.94	22.6		2.50	-	*	
1,2,3,7,8,9-HxCDF	2.62e+06	1.21 y	39:53	0.88	21.8		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	2.16e+06	0.92 y	42:25	1.51	22.2		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	1.61e+06	0.99 y	45:14	1.11	22.4		2.50	-	*	
OCDF	2.95e+06	0.89 y	50:18	0.87	45.8		2.50	-	*	
13C-2,3,7,8-TCDD	1.57e+07	0.77 y	27:29	1.21	104					Rec
13C-1,2,3,7,8-PeCDD	1.04e+07	1.75 y	33:18	0.83	101					104
13C-1,2,3,6,7,8-HxCDD	8.59e+06	1.21 y	38:51	0.99	113					101
13C-1,2,3,4,6,7,8-HpCDD	7.83e+06	1.08 y	44:18	1.03	99.5					113
13C-OCDD	8.56e+06	0.97 y	49:54	0.64	176					99.5
13C-2,3,7,8-TCDF	2.20e+07	0.88 y	26:43	1.33	106					87.8
13C-1,2,3,7,8-PeCDF	1.61e+07	1.70 y	31:34	0.96	108					
13C-1,2,3,6,7,8-HxCDF	1.37e+07	0.52 y	37:29	1.75	102					106
13C-1,2,3,4,6,7,8-HpCDF	6.46e+06	0.46 y	42:24	1.00	84.4					108
13C-OCDF	1.48e+07	0.98 y	50:17	1.11	175					102
13C-1,2,3,7,8,9-HxCDF	1.03e+07	0.52 y	39:52	1.40	96.2					84.4
37Cl-2,3,7,8-TCDD	8.36e+06		27:30	0.56	95.9					87.3
13C-1,2,3,4,7,8-HxCDD	7.53e+06	1.21 y	38:40	1.05	83.3					
13C-2,3,4,7,8-PeCDF	1.53e+07	1.72 y	32:52	0.93	102					96.2
13C-1,2,3,4,7,8-HxCDF	1.25e+07	0.50 y	37:17	1.00	91.8					
13C-1,2,3,4,7,8,9-HpCDF	5.30e+06	0.42 y	45:12	0.82	99.5					95.9
13C-1,2,3,4-TCDD	1.24e+07	0.78 y	26:54	-	29.8					
13C-2,3,7,8-TCDF	1.56e+07	0.88 y	25:39	-	23.1					
13C-1,2,3,7,8,9-HxCDD	7.65e+06	1.24 y	39:18	-	25.9					
Total Tetra-Dioxins	3.16e+06		22:50	1.14	17.7		Fac	Noise	DL	#Hom
Total Penta-Dioxins	8.11e+06		30:21	1.14	68.0		2.50	-	*	28
Total Hexa-Dioxins	1.07e+07		36:14	1.32	94.6		2.50	-	*	29
Total Hepta-Dioxins	4.50e+06		42:20	1.15	49.8		2.50	-	*	26
Total Tetra-Furans	4.53e+06		22:54	1.14	18.1		2.50	-	*	24
1st Fn. Tot Penta-Furans	4.47e+06		28:31	0.88	31.5		2.50	-	*	20
Total Penta-Furans	9.49e+06		30:17	0.88	66.7		2.50	-	*	1 PeCDF
Total Hexa-Furans	1.58e+07		35:21	0.97	119		2.50	-	*	21 98.2
Total Hepta-Furans	4.04e+06		41:25	1.31	47.8		2.50	-	*	33
										40

Analyst:

Date:

Frontier Analytical Laboratory - Acquisition Log

Run Name:09JUL09M

Instrument: FAL3

GC: DB5

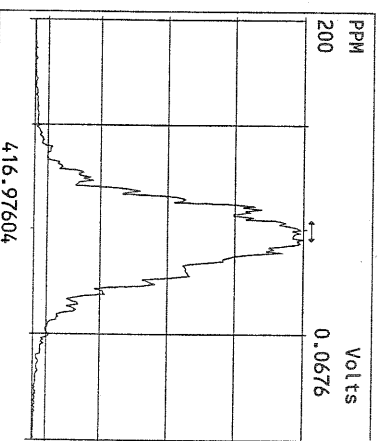
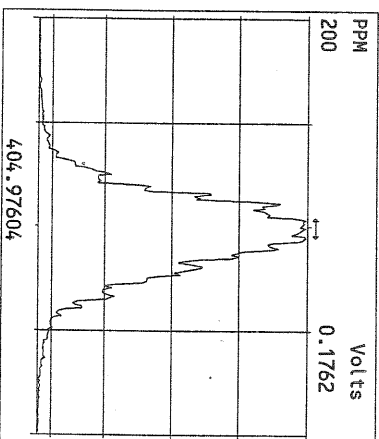
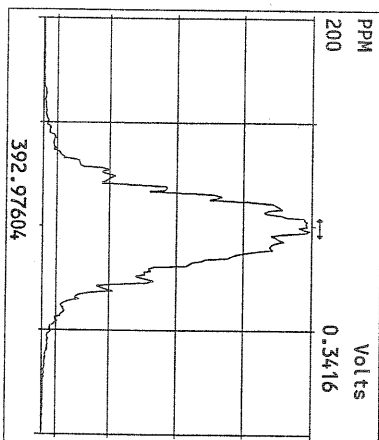
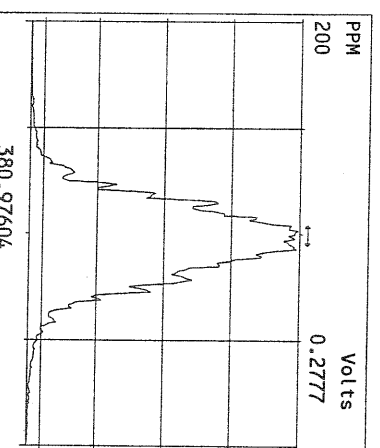
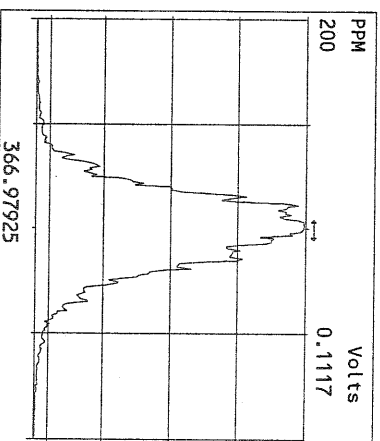
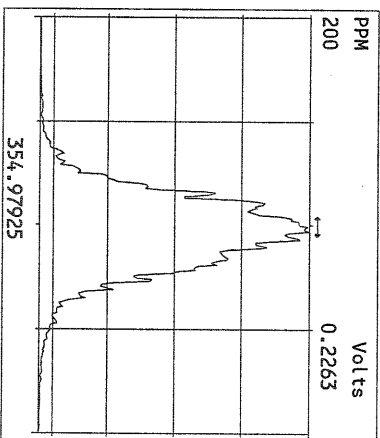
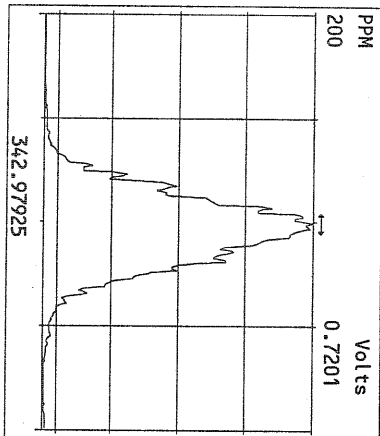
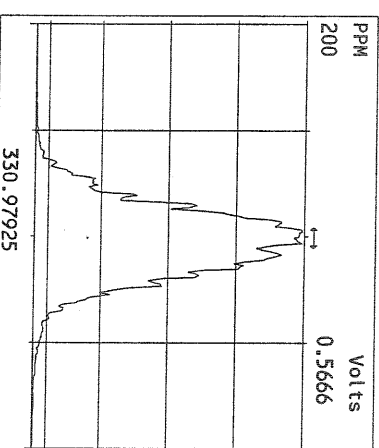
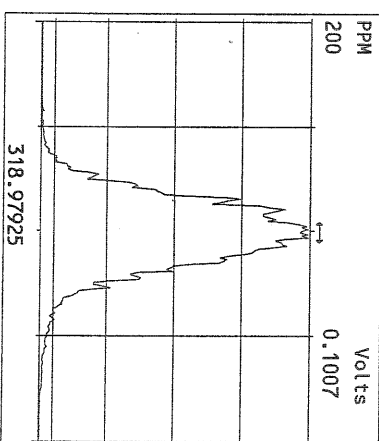
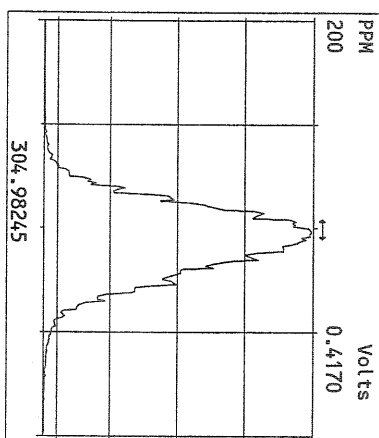
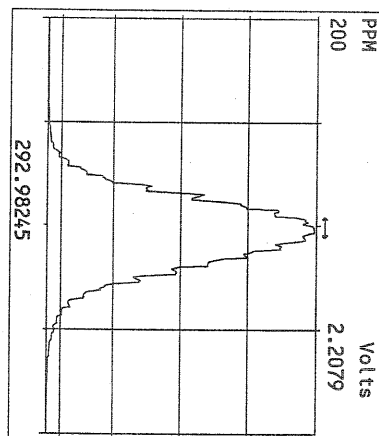
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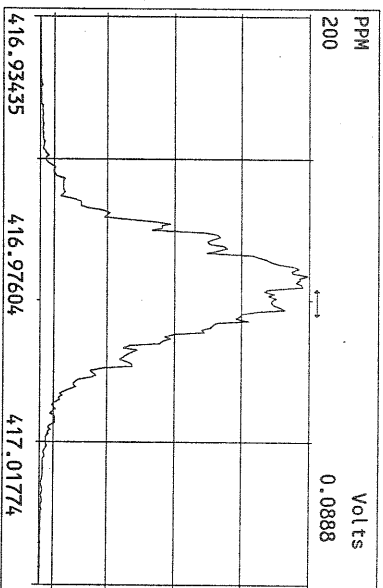
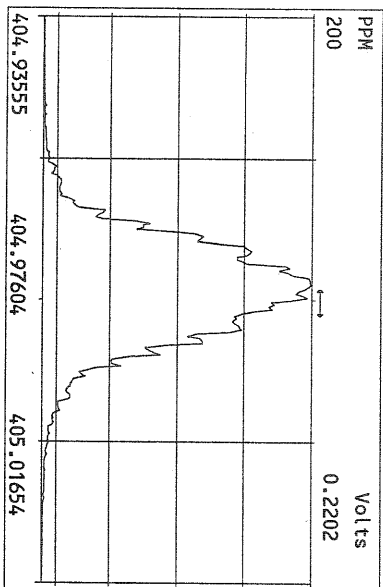
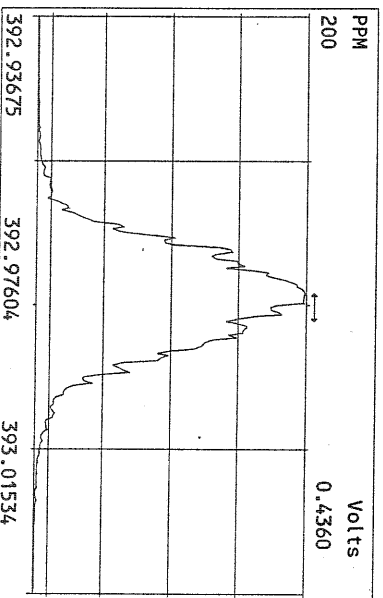
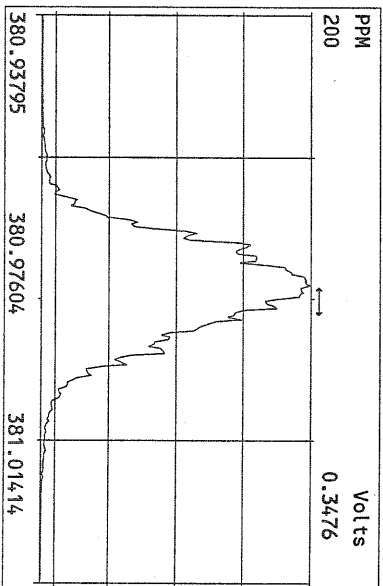
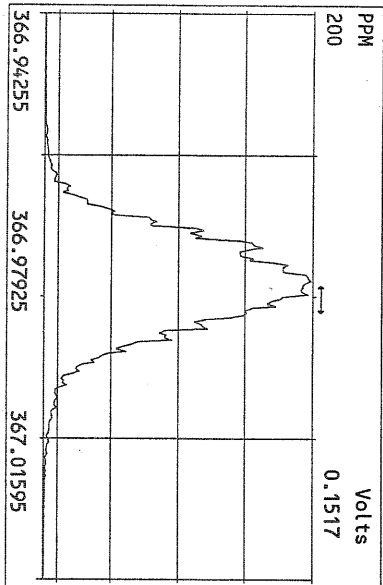
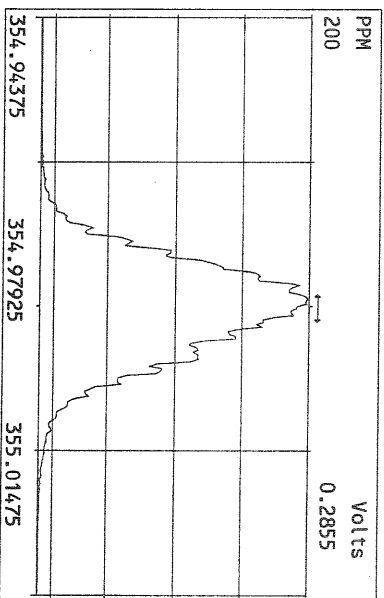
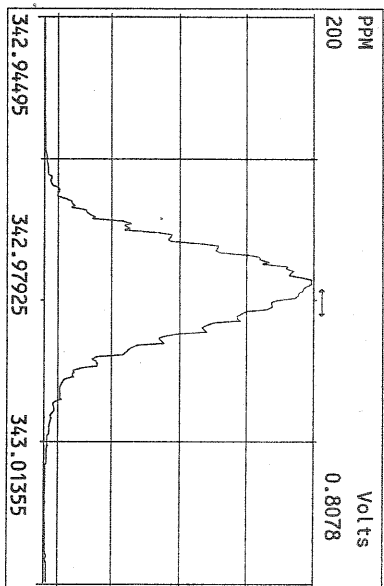
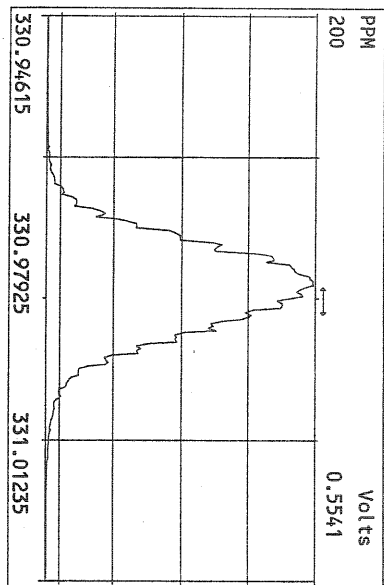
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09JUL09M	15	ST070909M2	AIR CS3 (090121I)	10-JUL-09 02:28:22	ST070909M2	ST070909M3	BS
09JUL09M	16	ST070909M3	1613 CS3	10-JUL-09 03:23:39	ST070909M2	ST070909M3	BS
09JUL09M	17	1758-001-0001-LC1	LCS1	10-JUL-09 04:18:54	ST070909M2	ST070909M3	BS
09JUL09M	18	1758-001-0001-LC2	LCS2	10-JUL-09 05:14:08	ST070909M2	ST070909M3	BS
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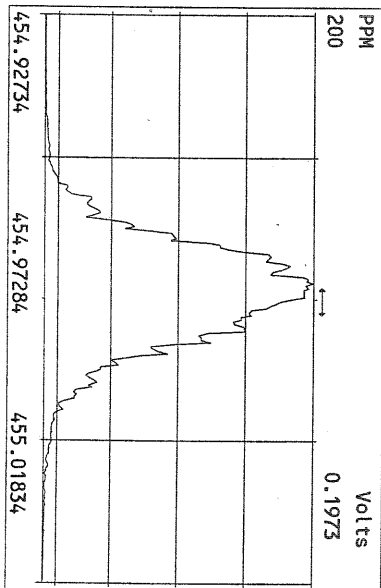
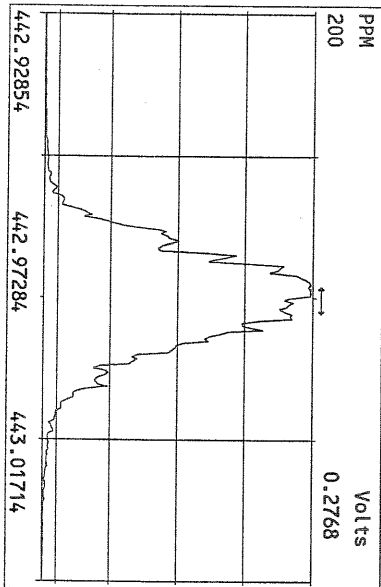
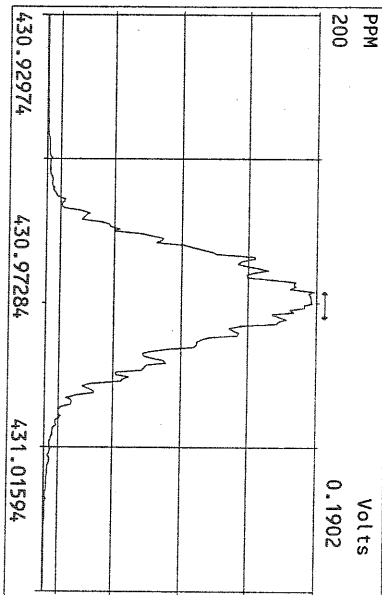
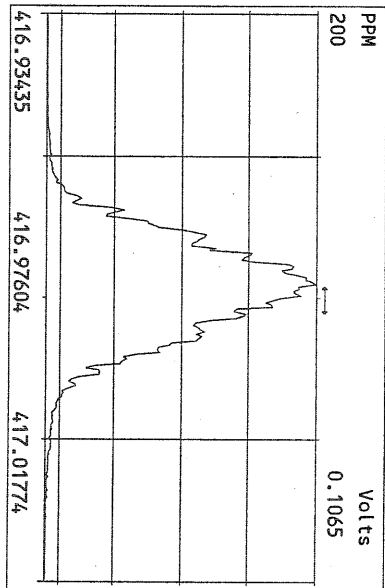
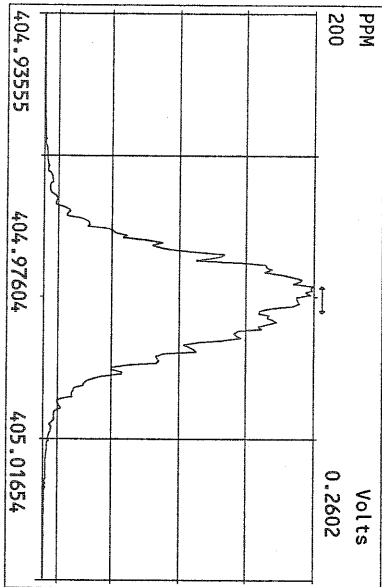
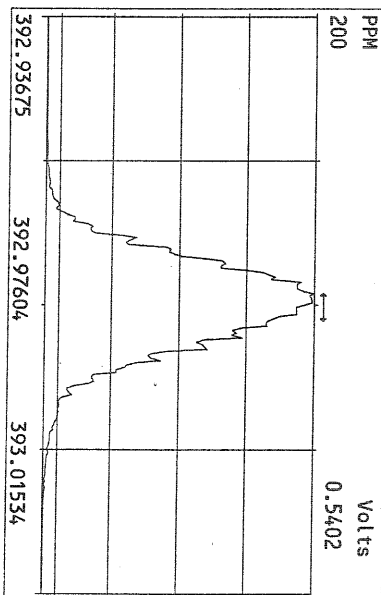
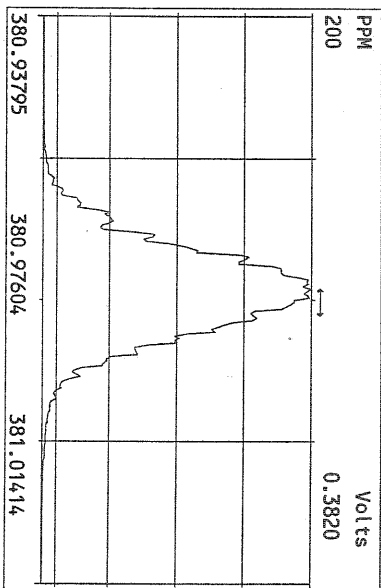
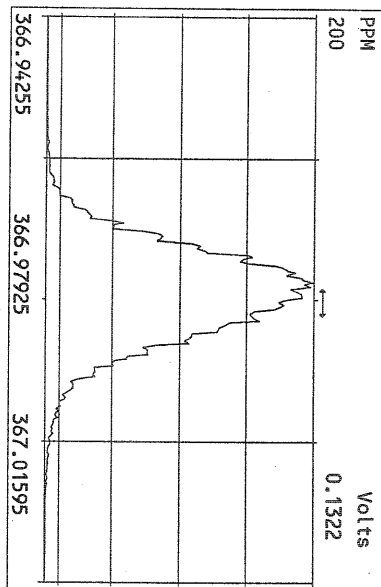
8/7/10/09

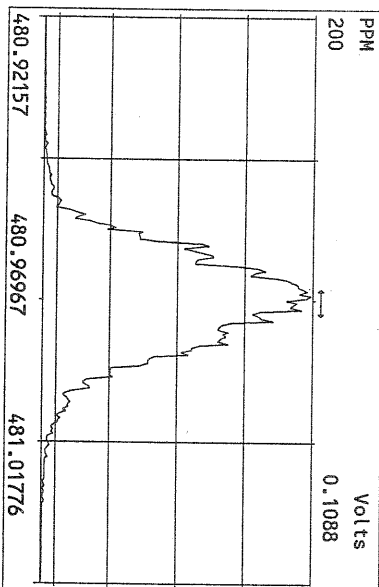
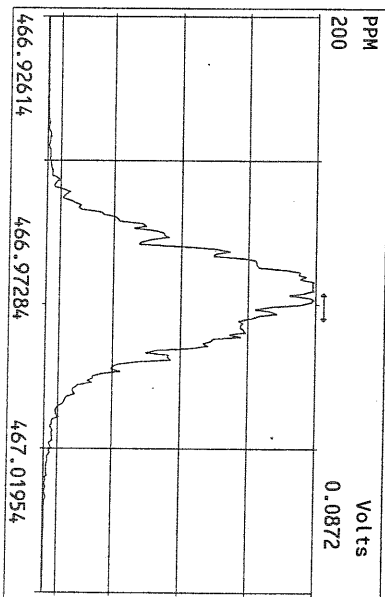
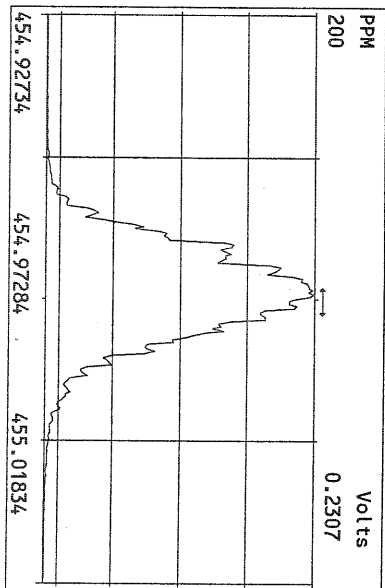
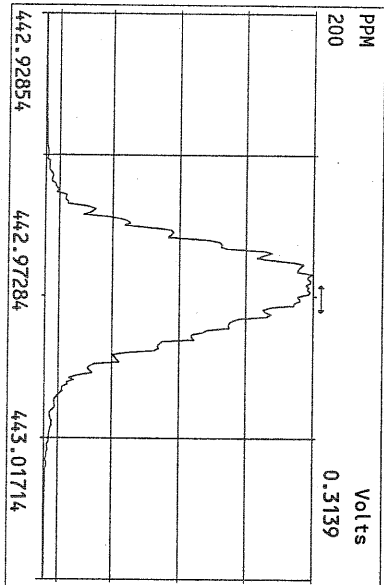
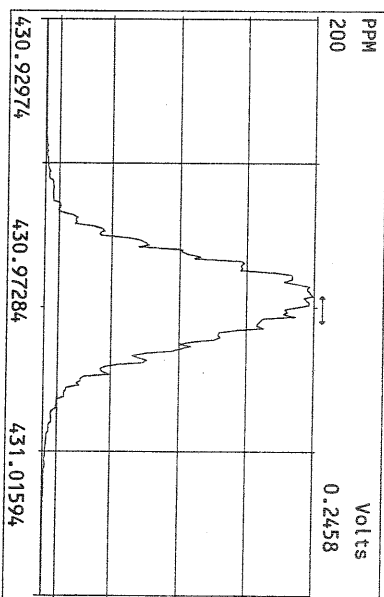
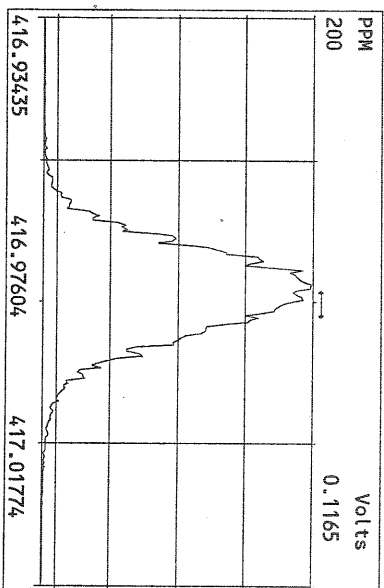
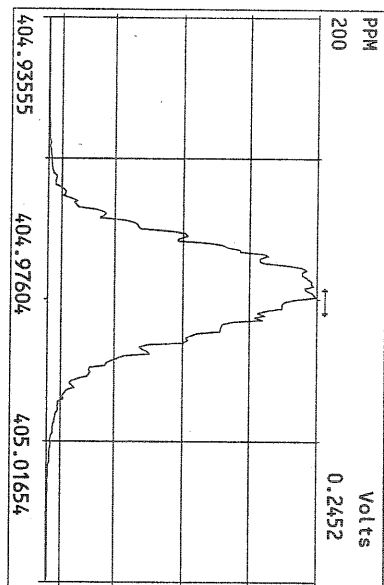
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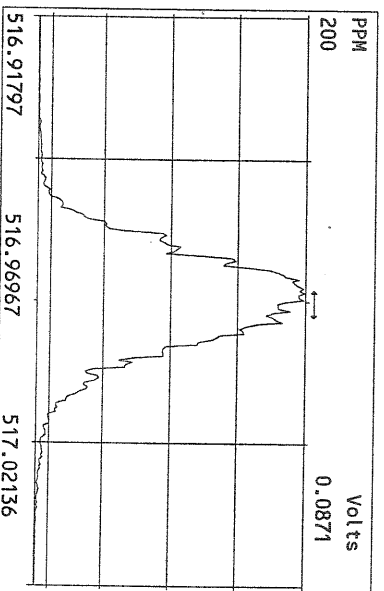
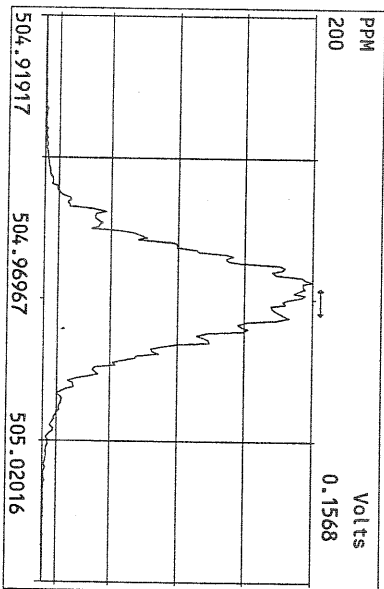
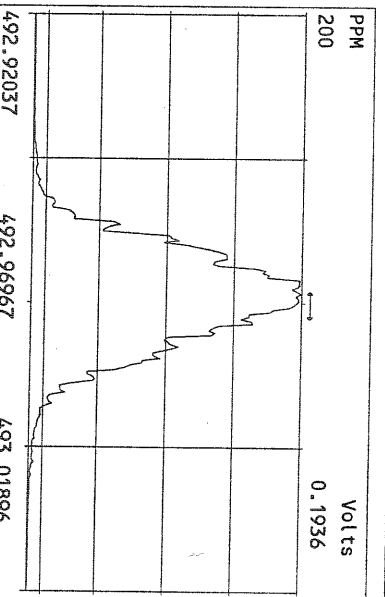
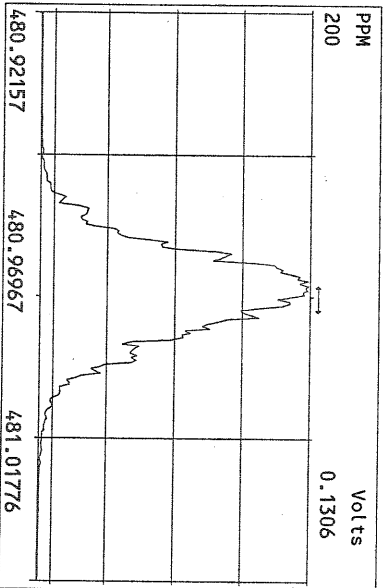
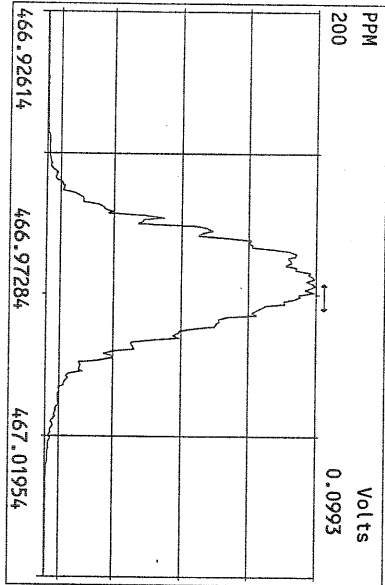
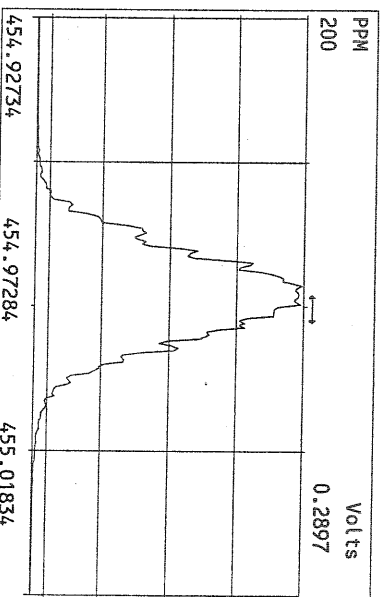
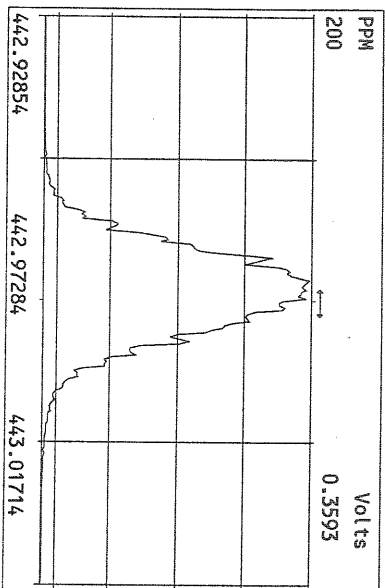
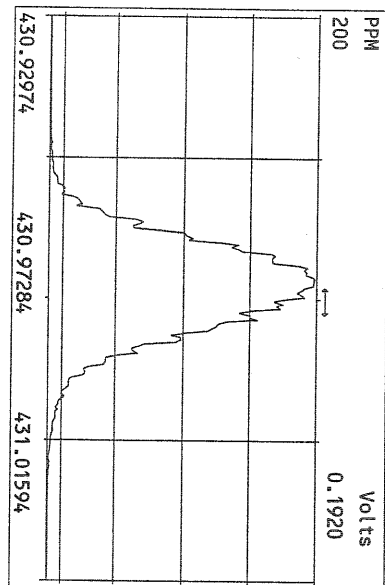
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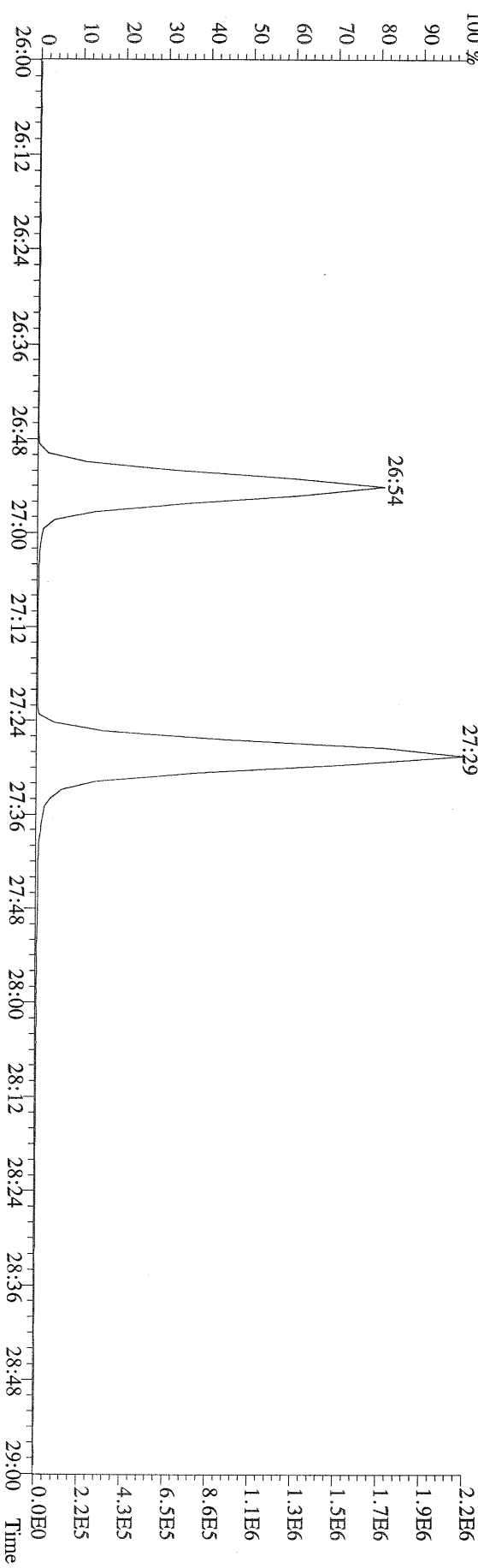
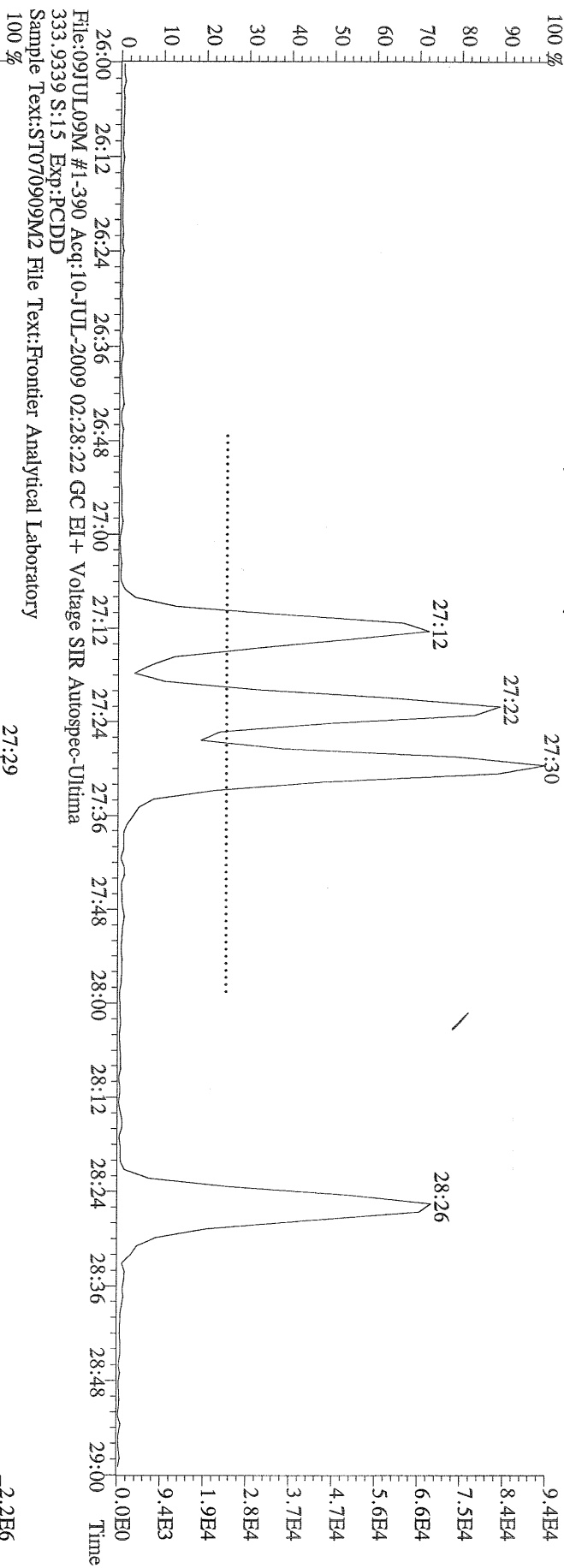




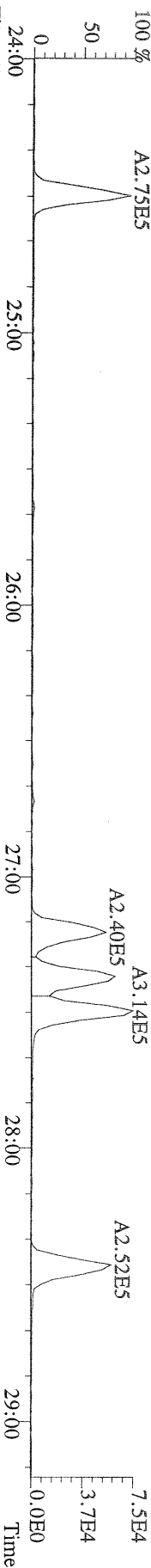




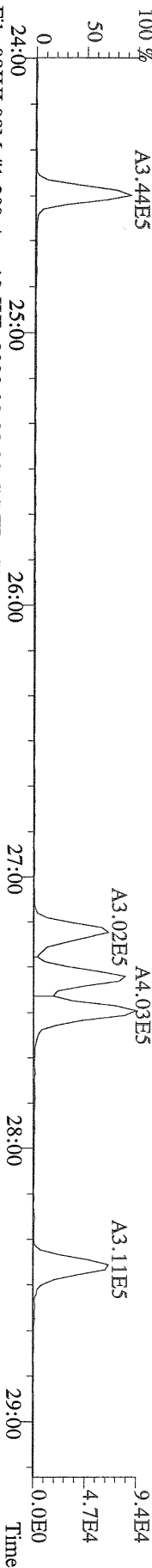
File:09JUL09M #1-390 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
321.8936 S:15 Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



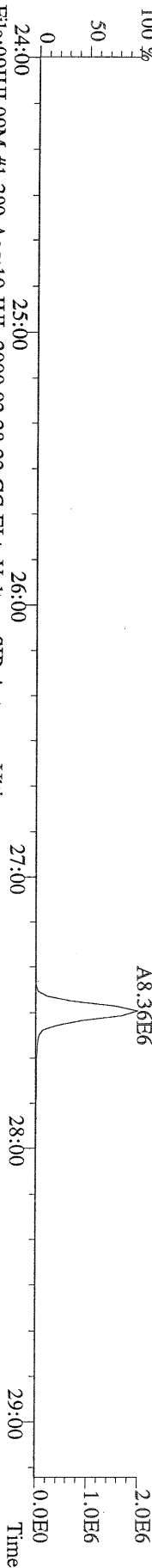
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319.8965 S:1.5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



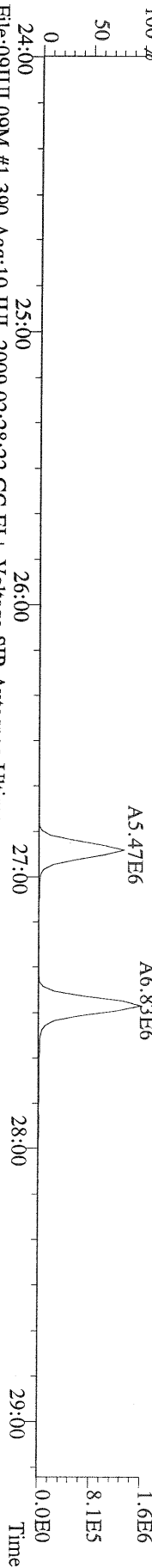
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Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



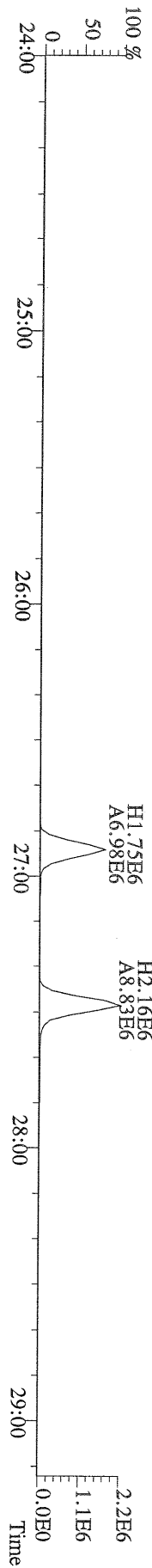
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327.8847 S:1.5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



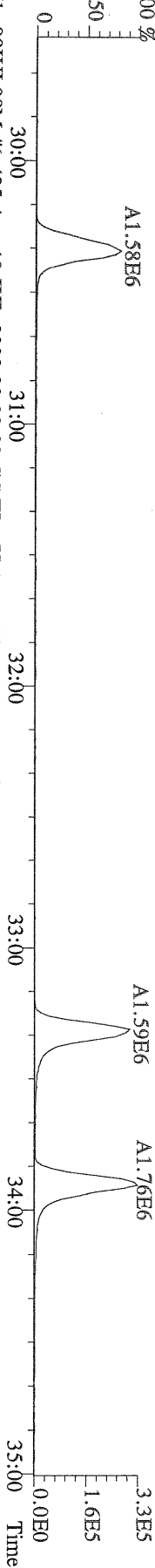
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331.9368 S:1.5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



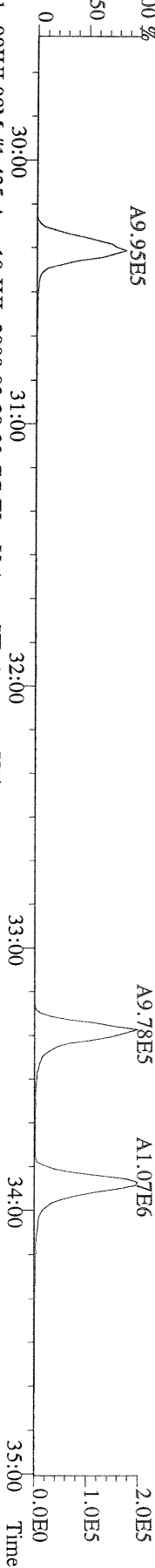
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333.9339 S:1.5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



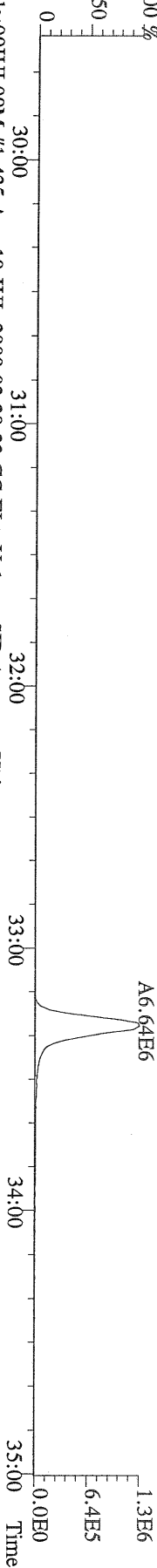
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355.8546 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



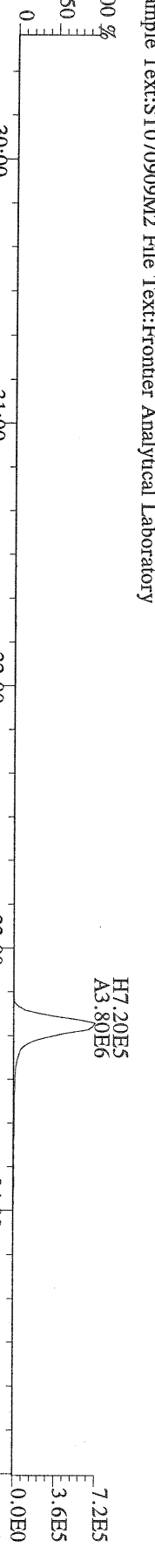
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357.8517 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



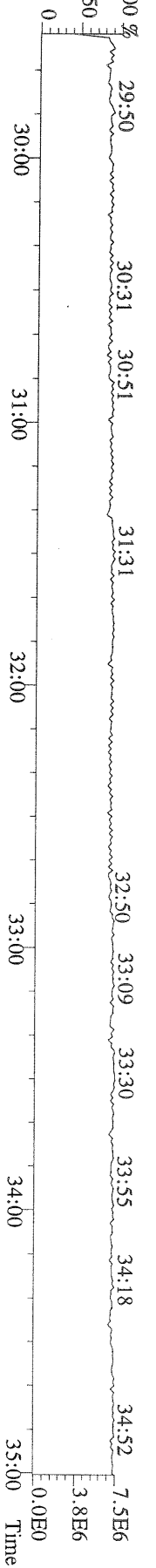
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367.8949 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



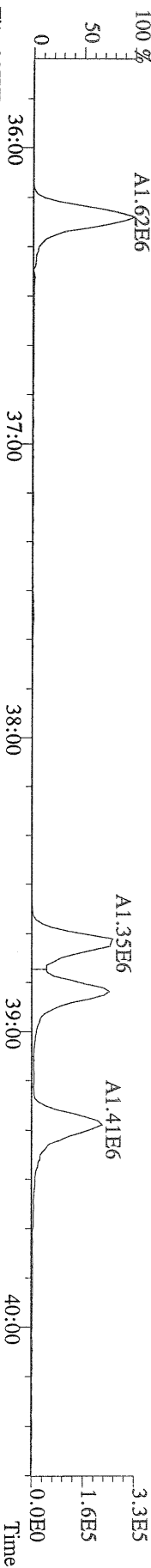
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369.8919 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



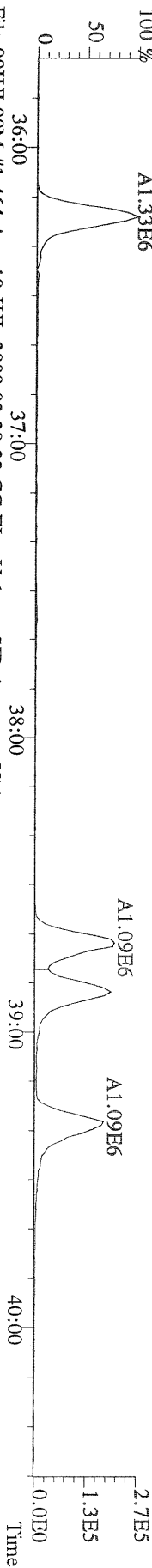
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366.9792 S:15 F:2 Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



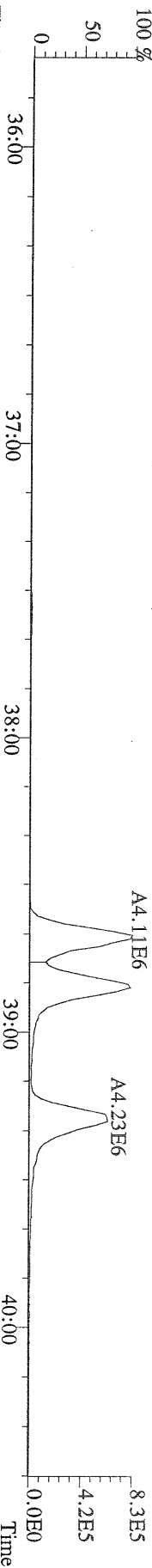
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389.8156 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



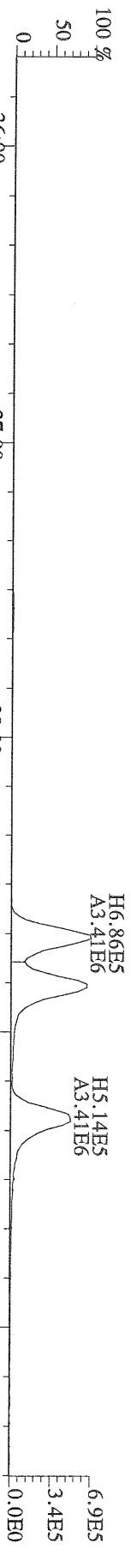
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391.8127 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



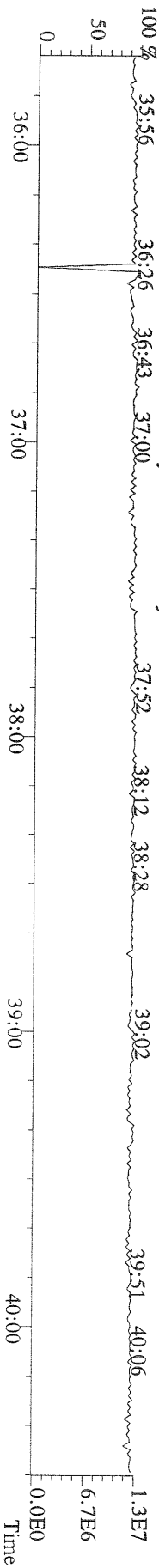
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401.8559 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



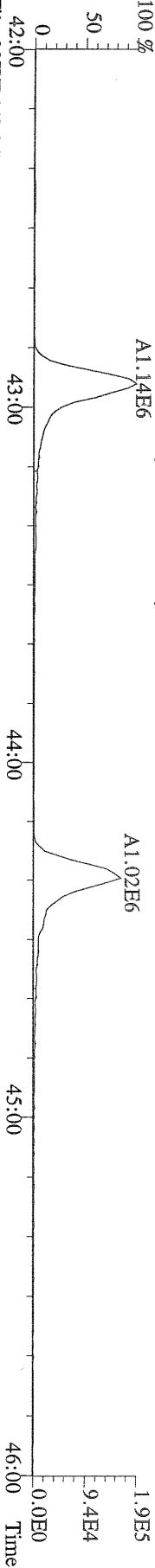
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403.8530 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



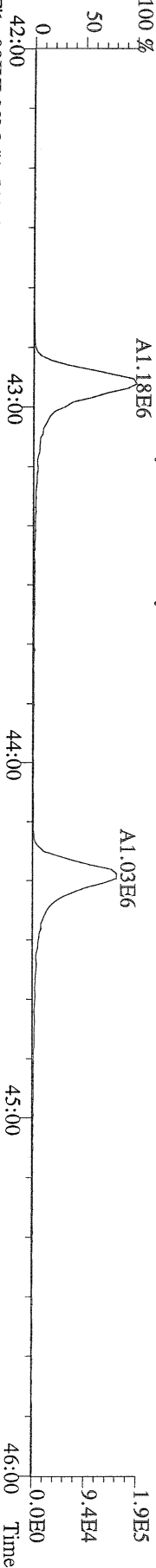
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Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



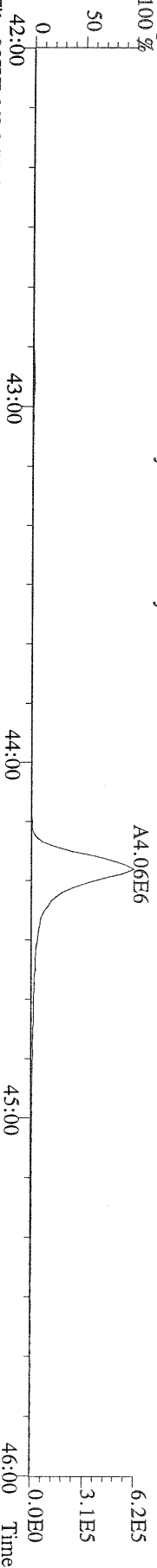
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423.7767 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp.:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



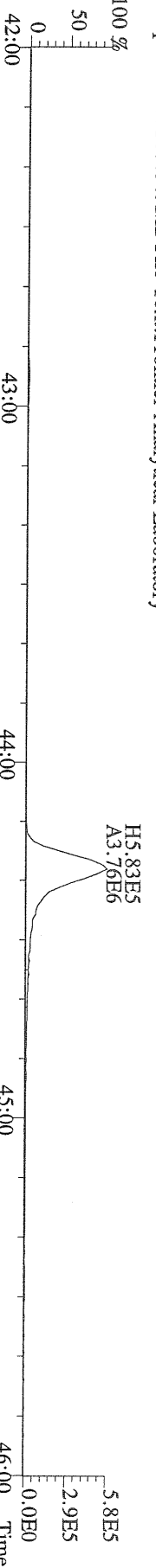
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425.7737 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp.:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



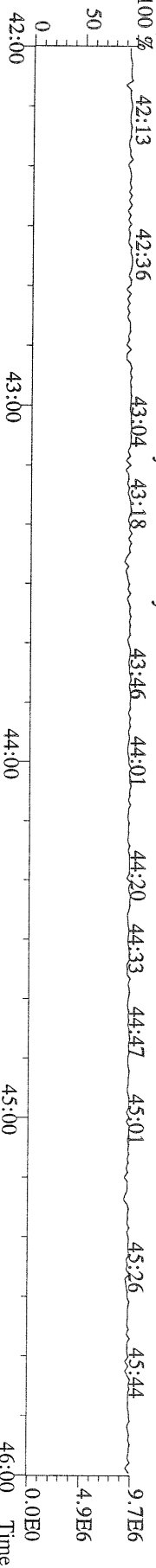
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435.8169 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp.:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



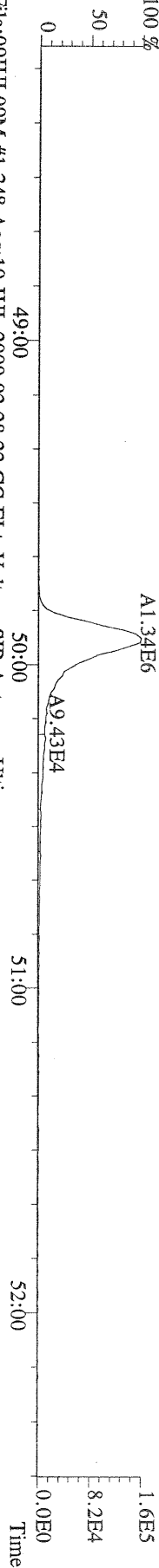
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437.8140 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp.:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



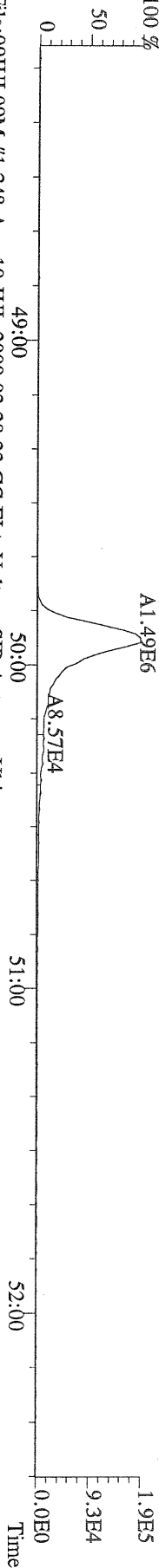
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430.9728 S:15 F:4 Exp.:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



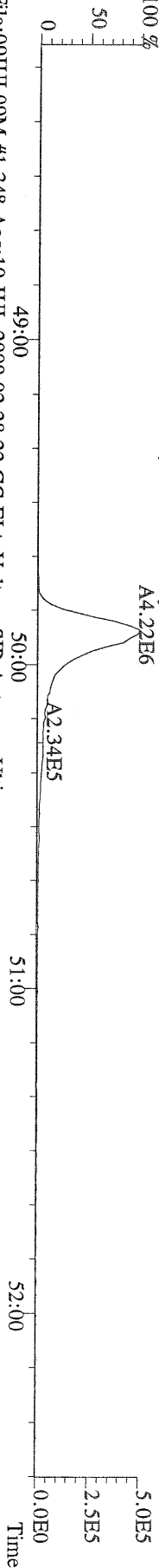
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457.7377 S:1.5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



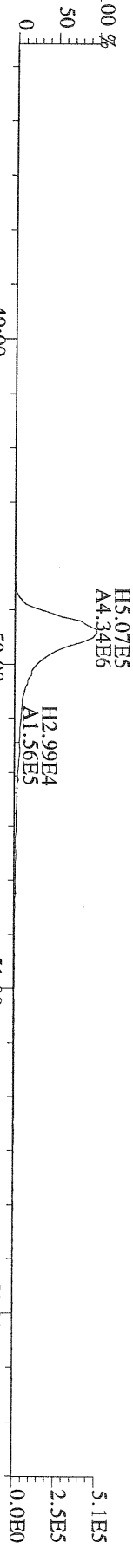
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459.7348 S:1.5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



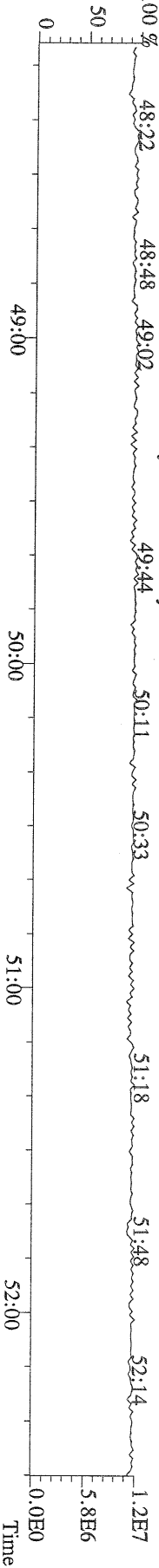
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469.7780 S:1.5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



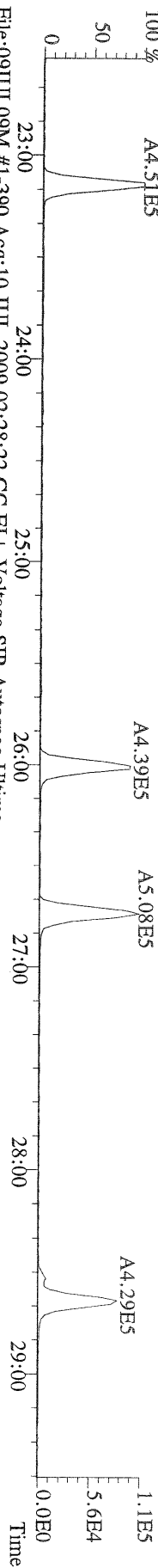
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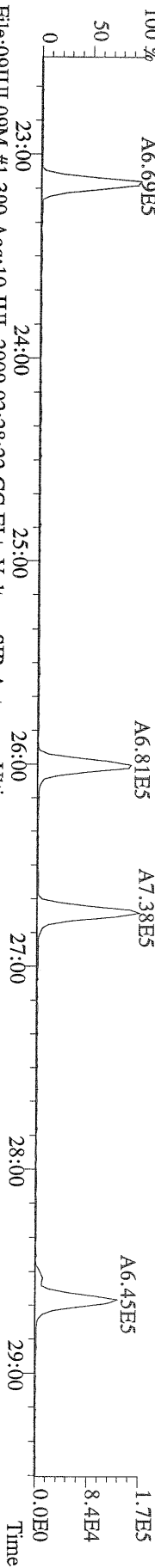
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Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



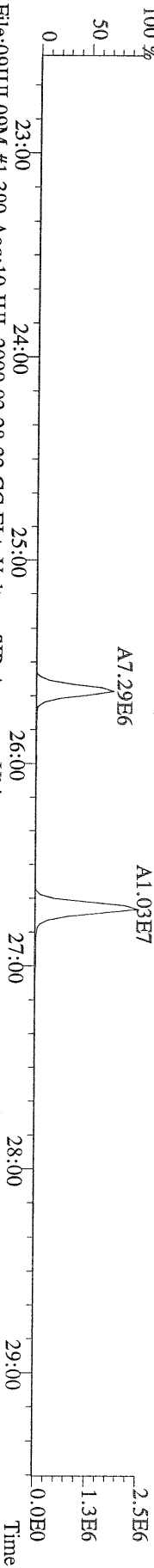
File:09JUL09M #1-390 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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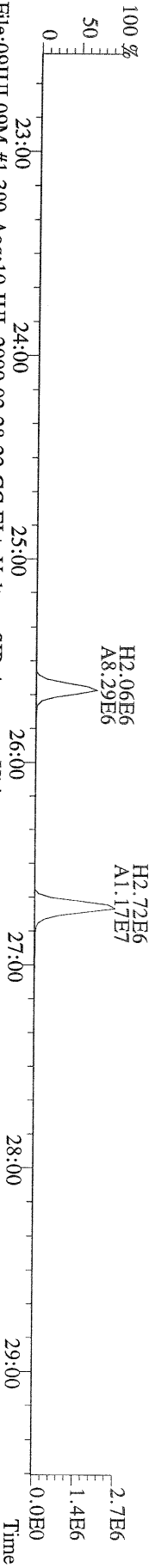
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305.8987 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



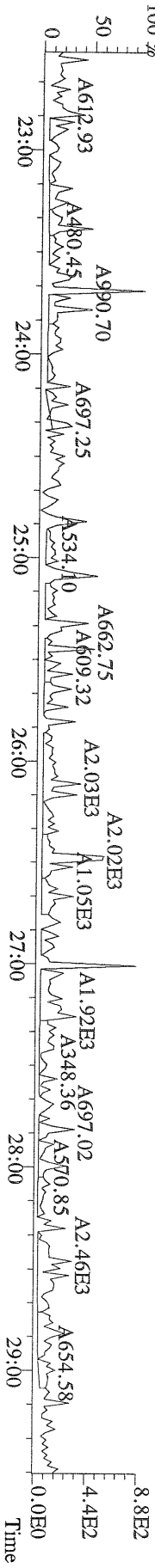
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315.9419 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



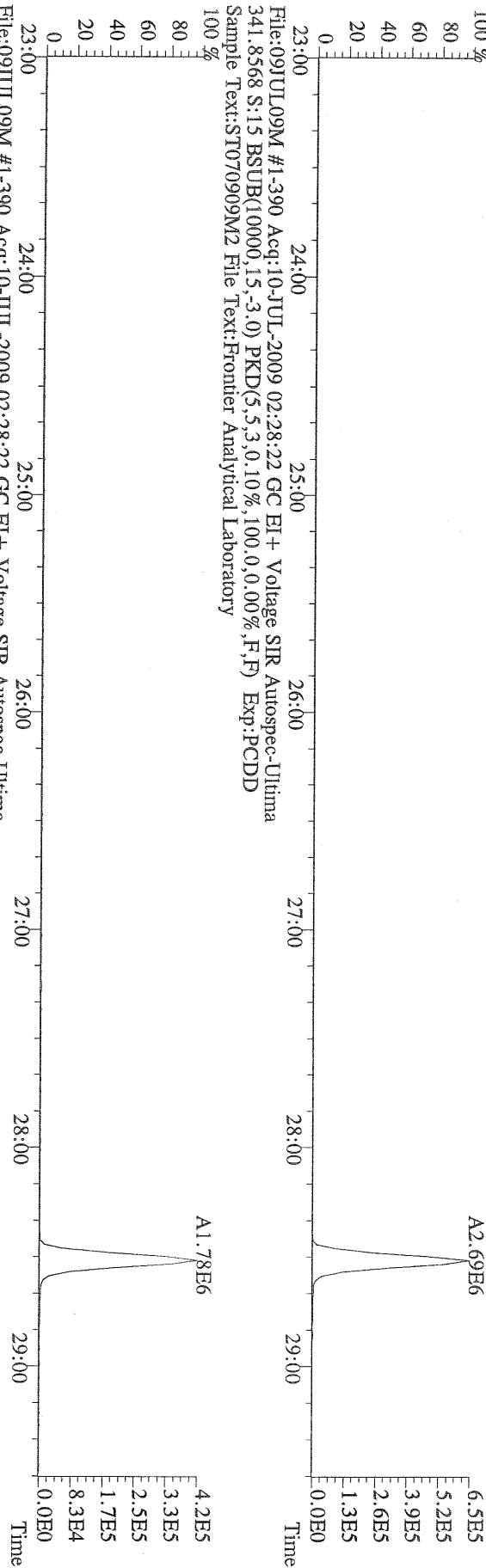
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317.9389 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



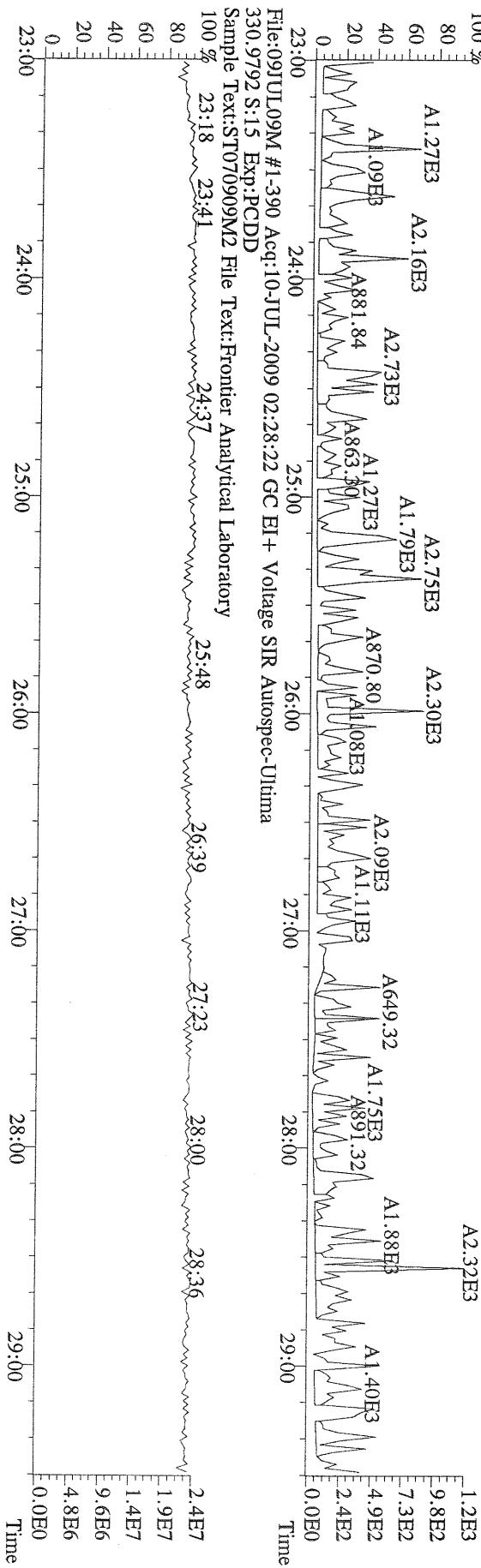
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375.8364 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



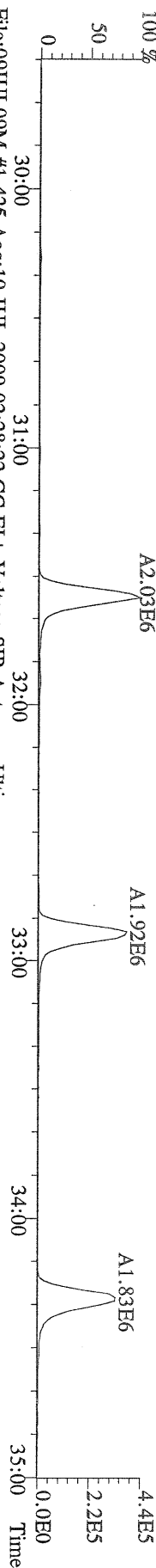
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339.8597 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



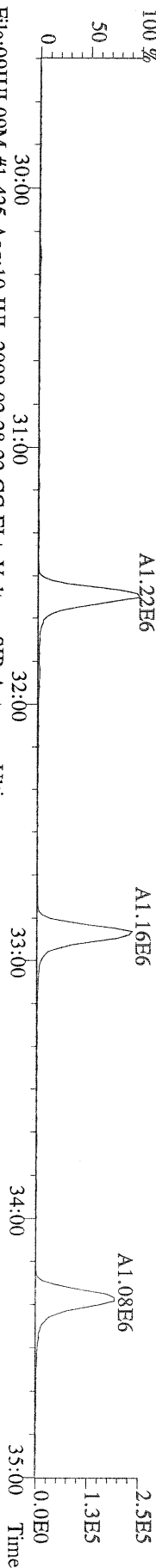
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409.7974 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



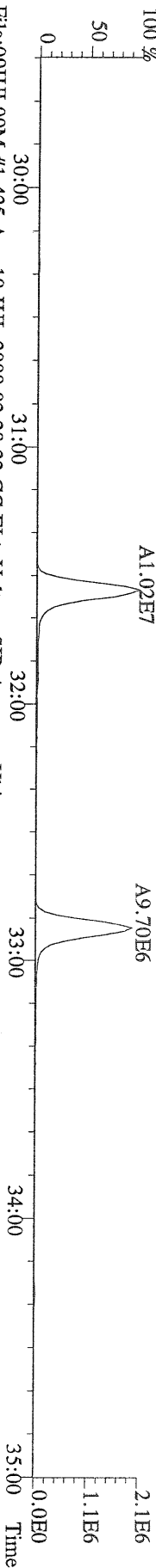
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339.8597 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



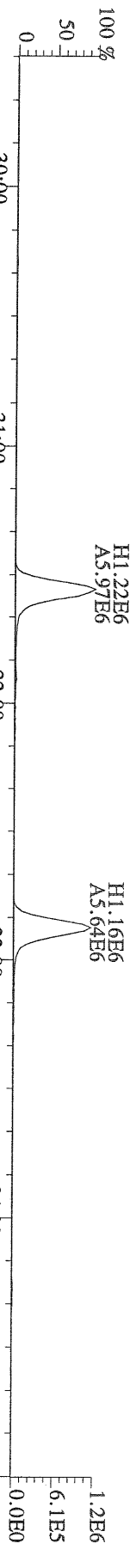
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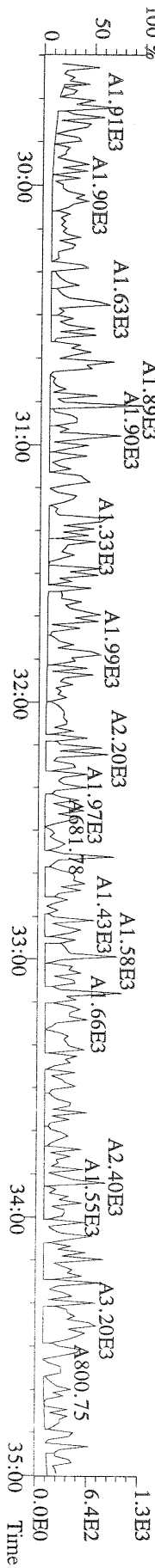
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351.9000 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



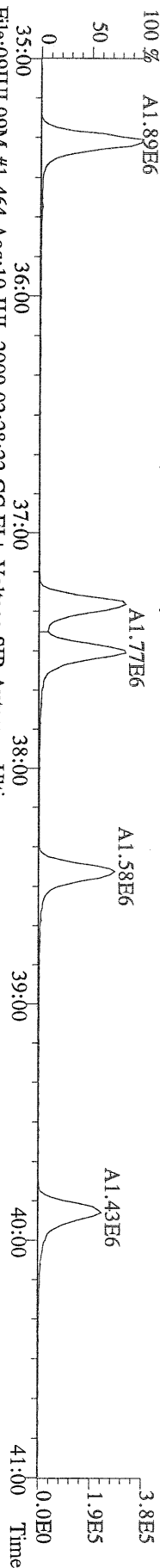
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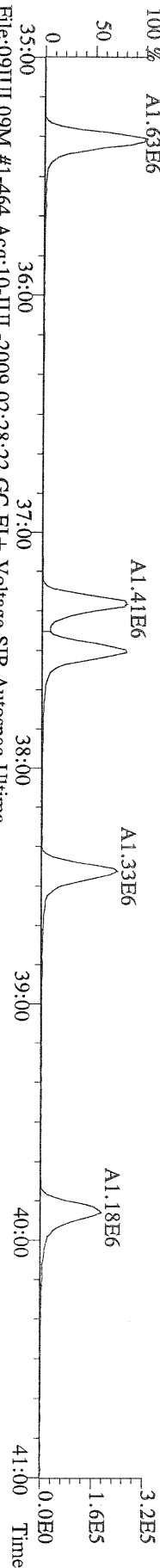
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409.7974 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



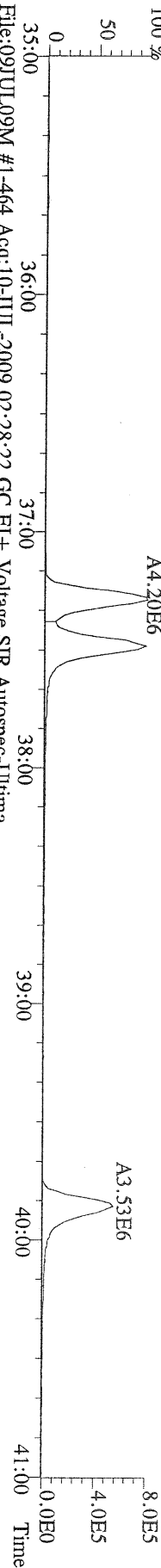
File:09JUL09M #1-464 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



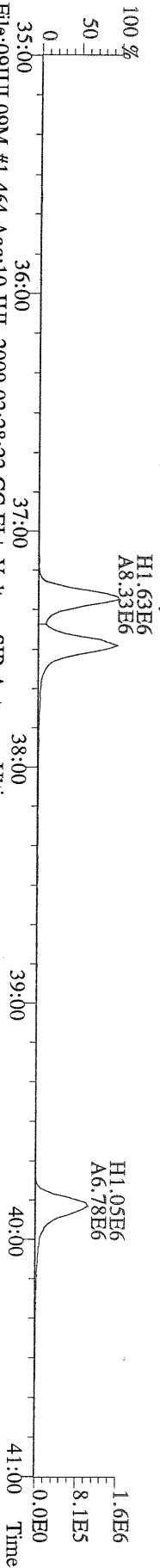
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375.8178 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



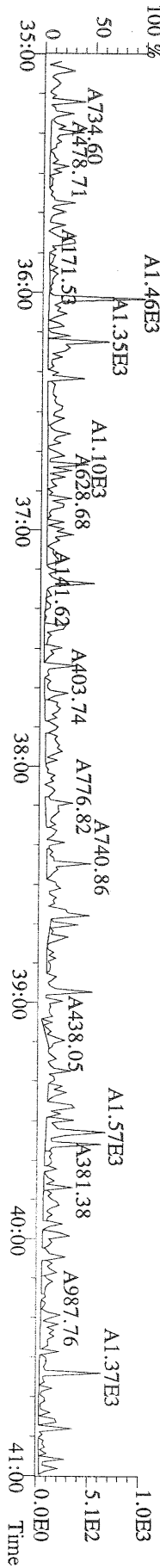
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383.8639 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



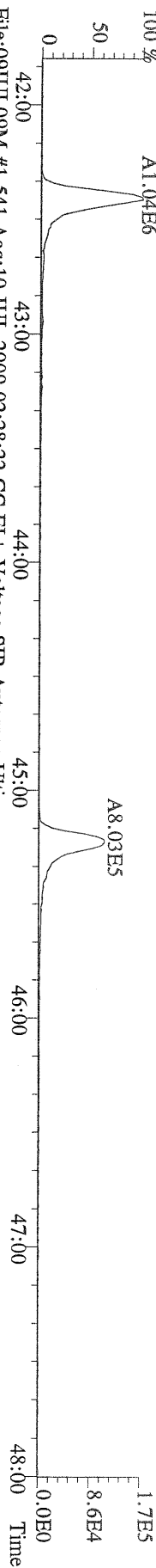
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385.8610 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



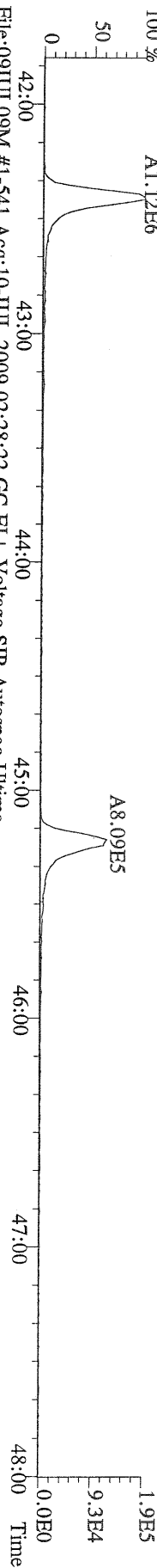
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445.7555 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



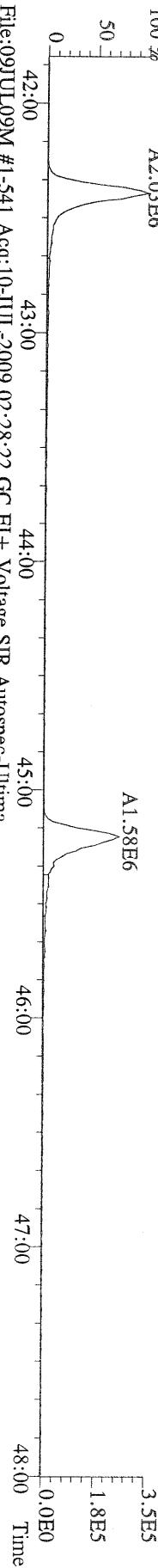
File:09JUL09M #1-541 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



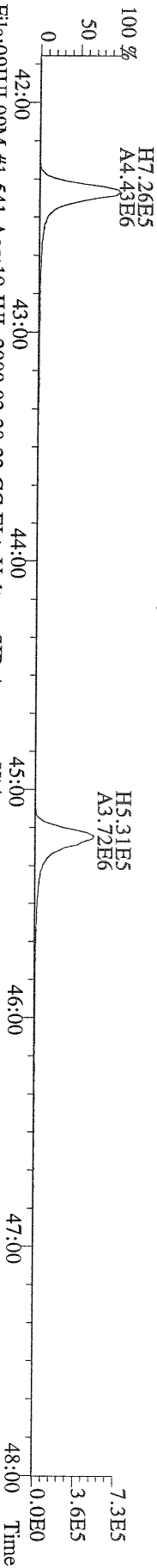
File:09JUL09M #1-541 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
409.7788 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



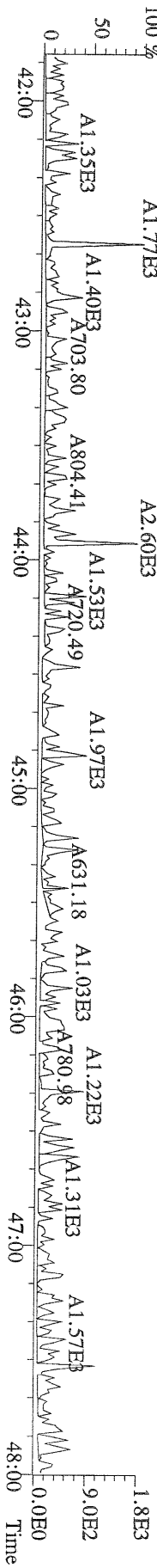
File:09JUL09M #1-541 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



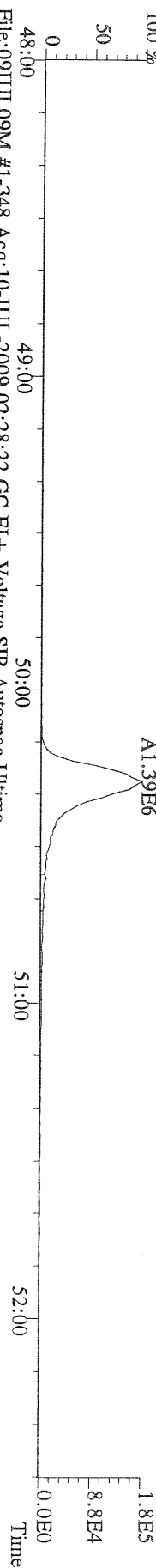
File:09JUL09M #1-541 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
419.8220 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



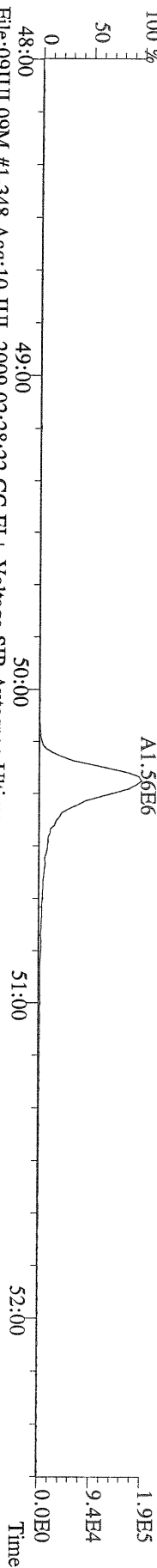
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479.7165 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory



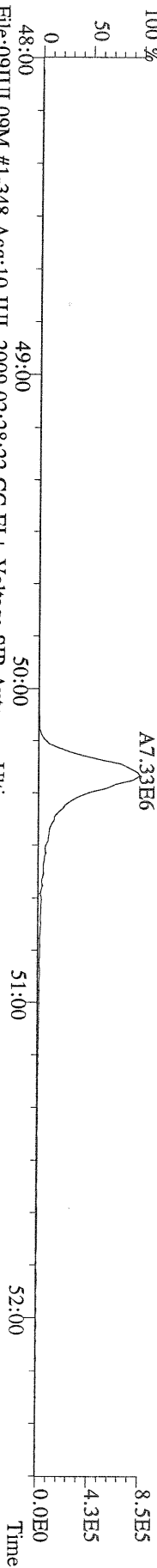
File:09JUL09M #1-348 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory
100 %



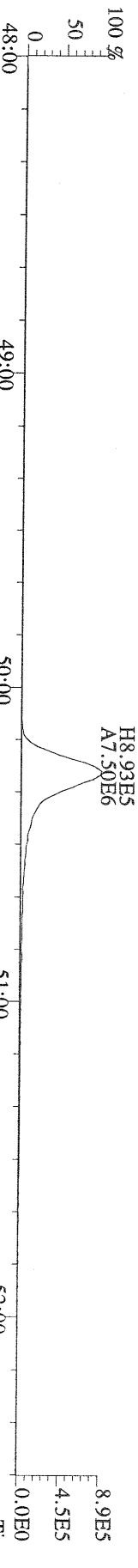
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443.7398 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory
100 %



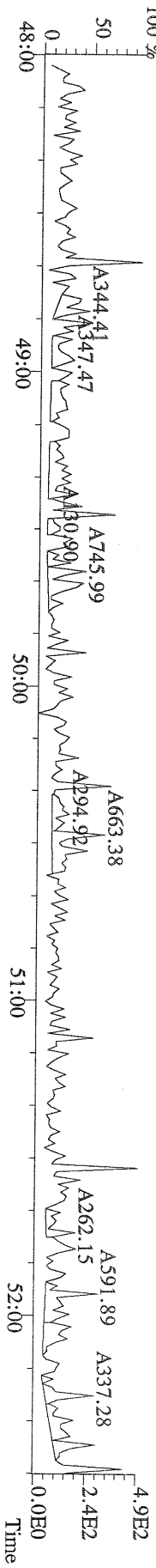
File:09JUL09M #1-348 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory
100 %

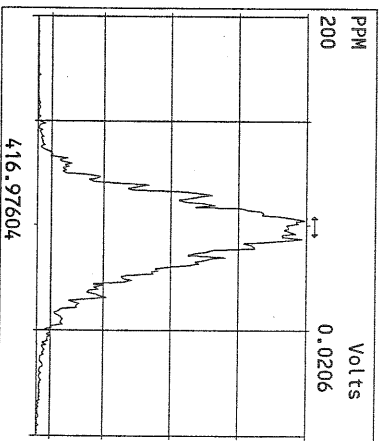
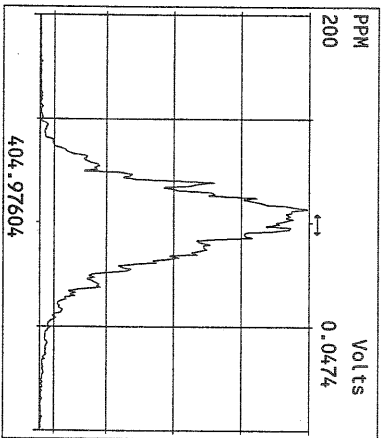
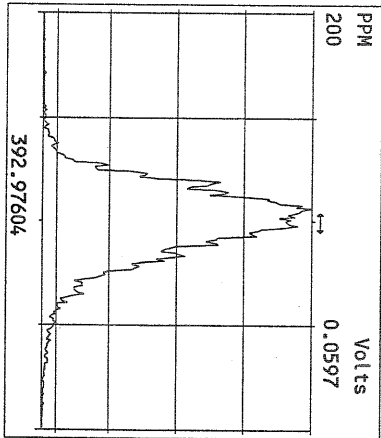
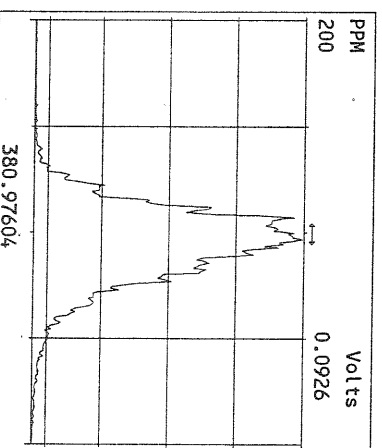
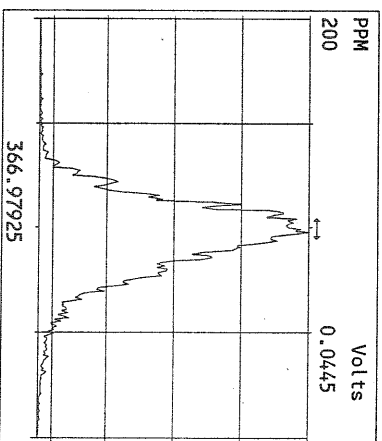
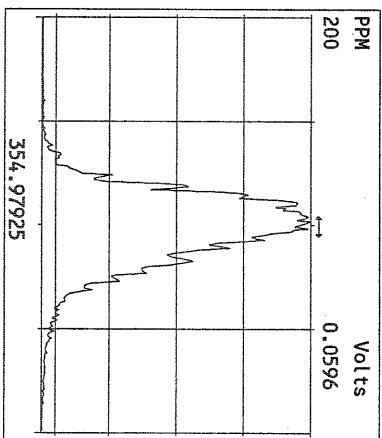
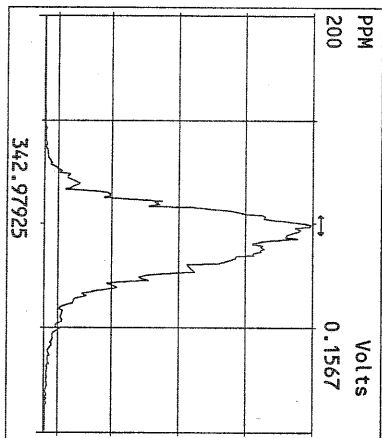
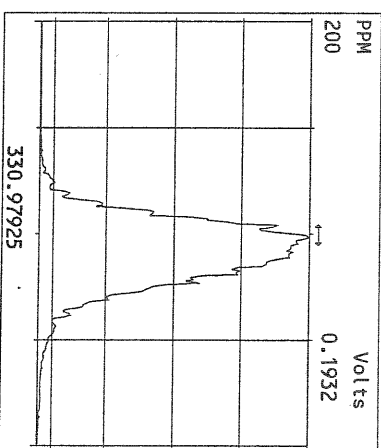
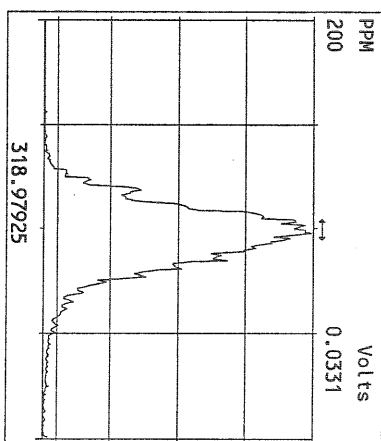
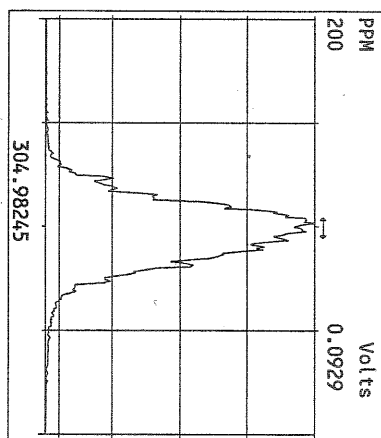
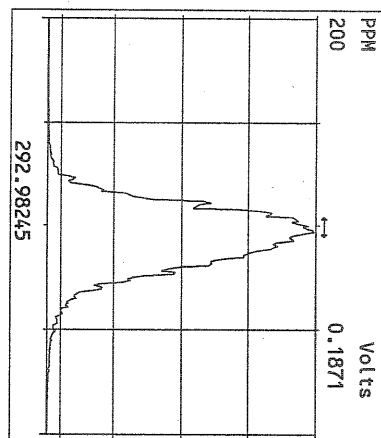


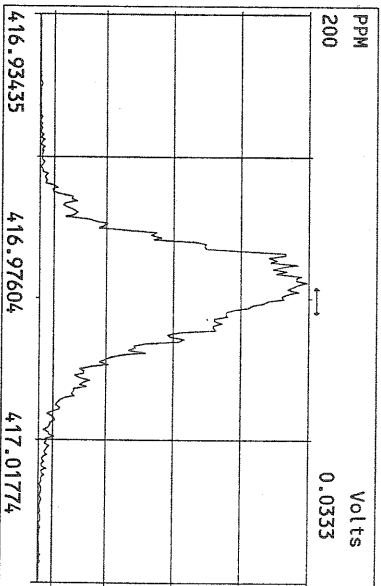
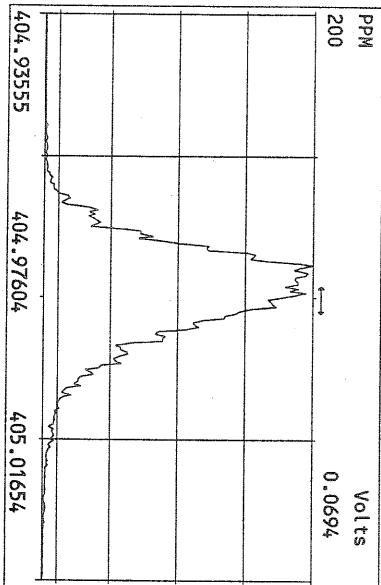
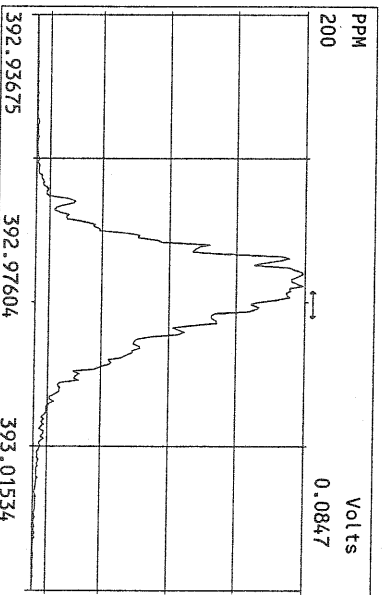
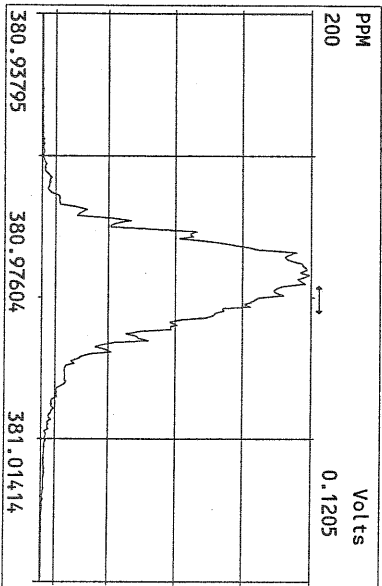
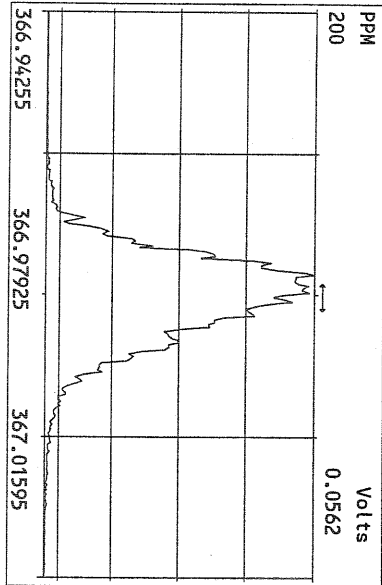
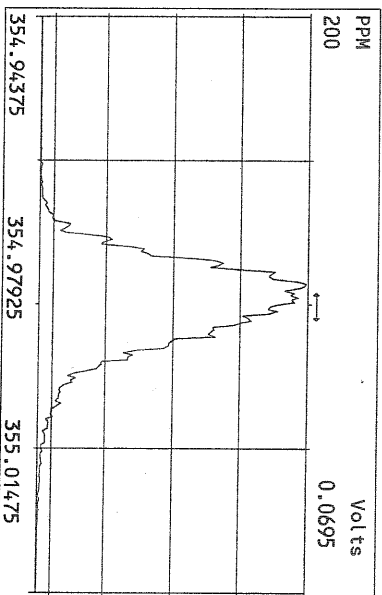
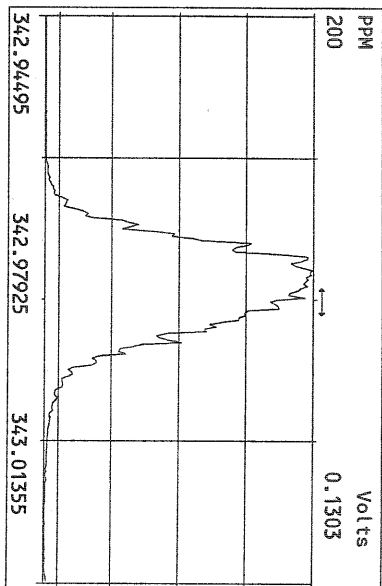
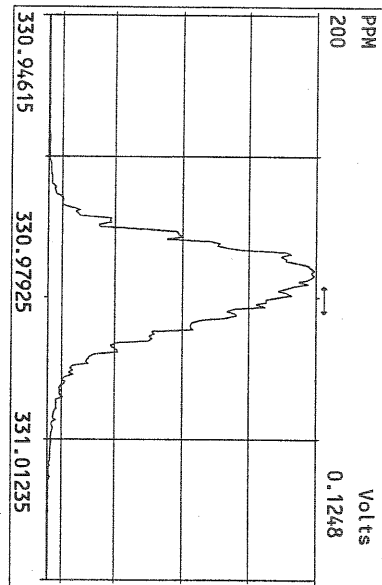
File:09JUL09M #1-348 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory

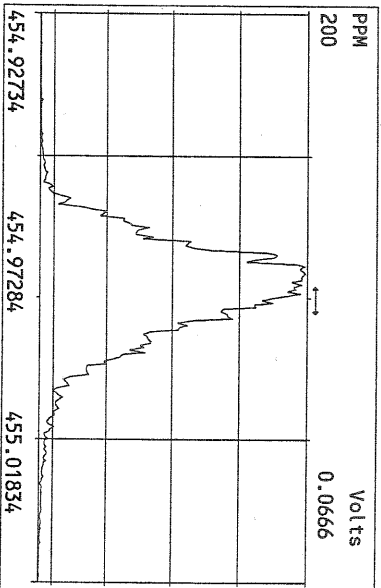
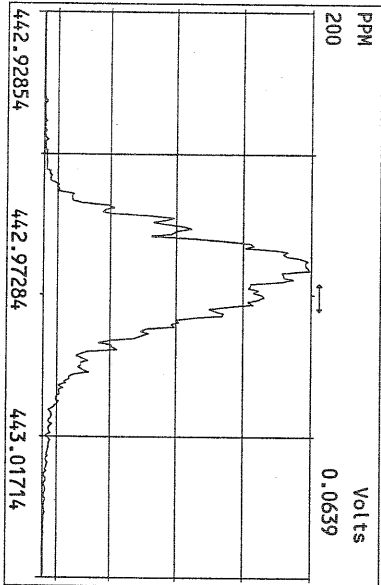
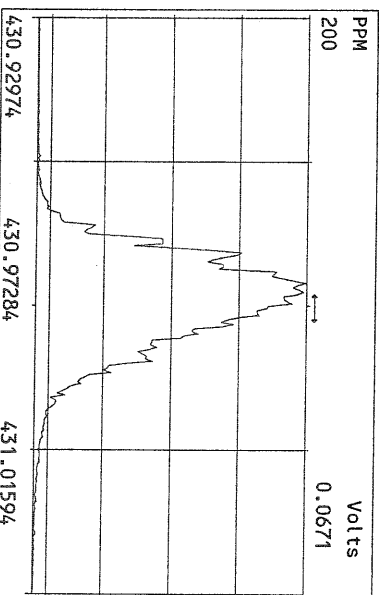
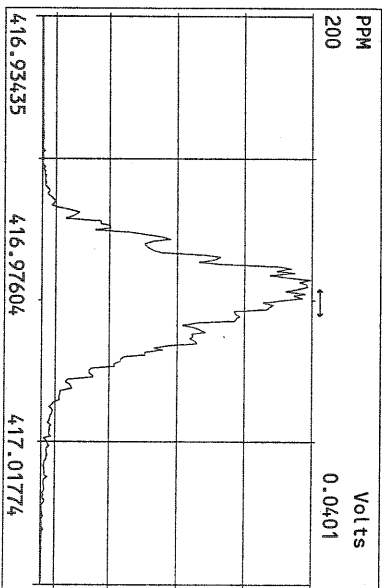
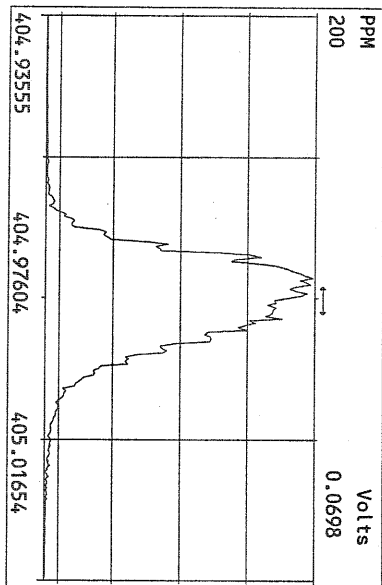
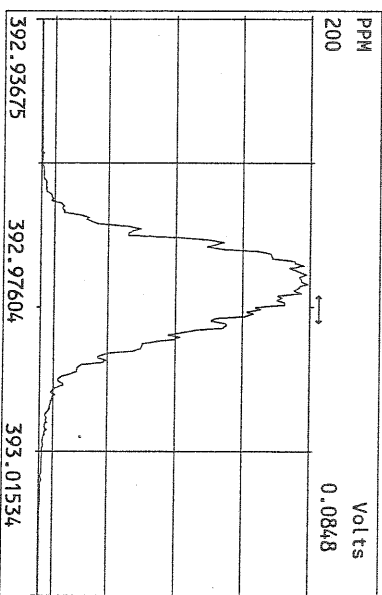
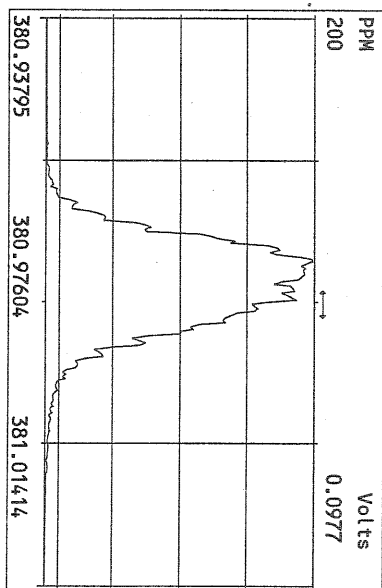
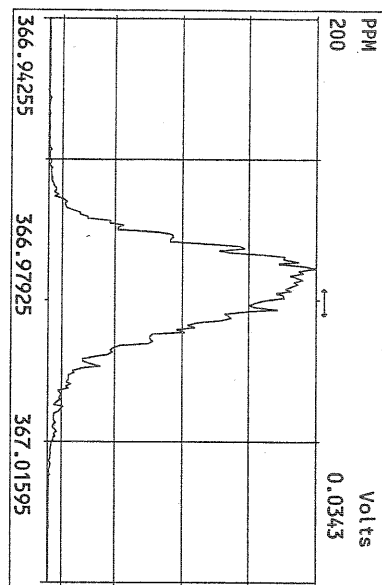


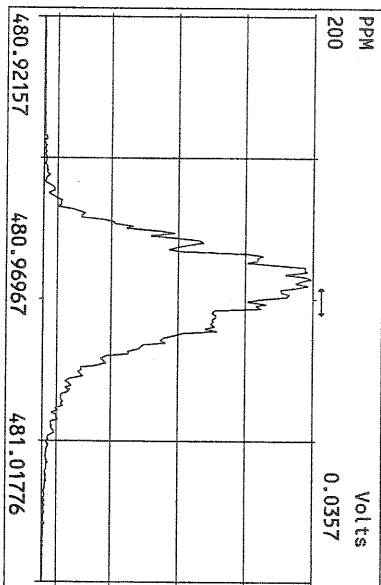
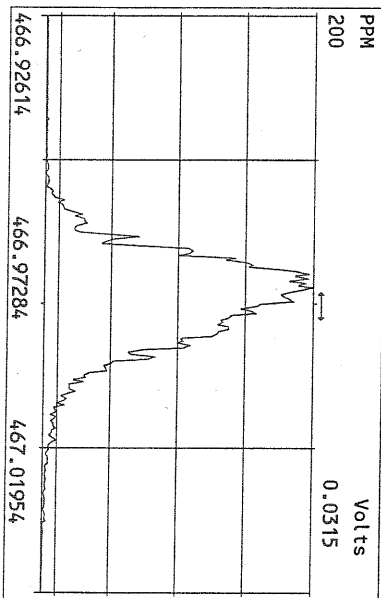
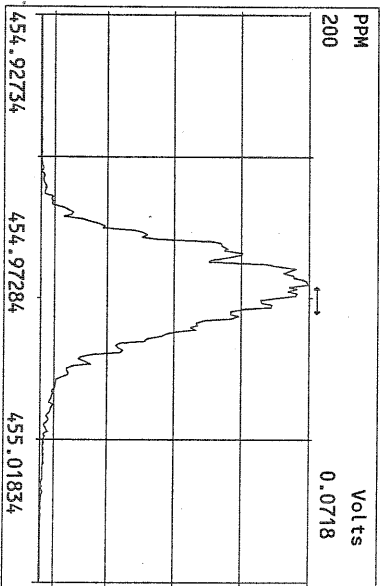
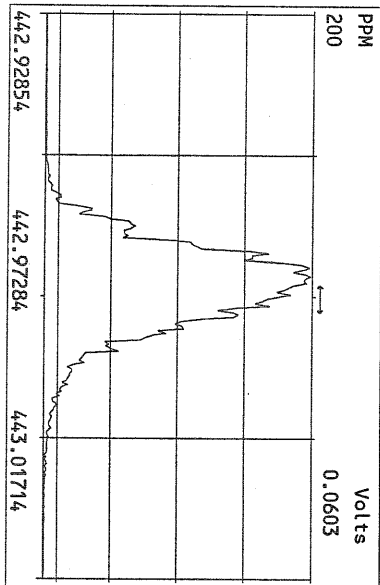
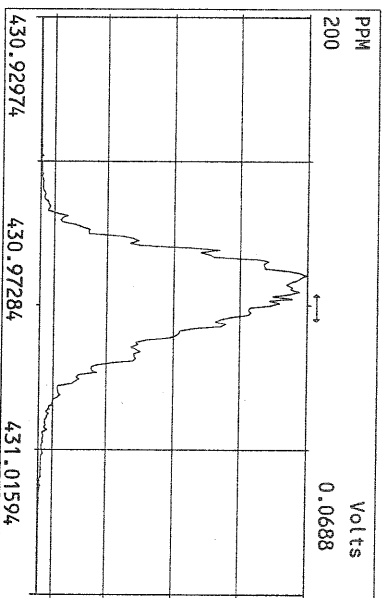
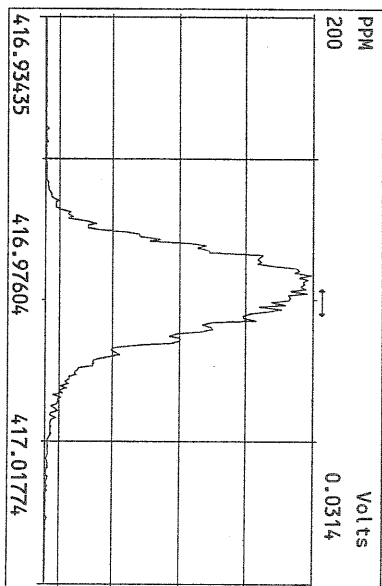
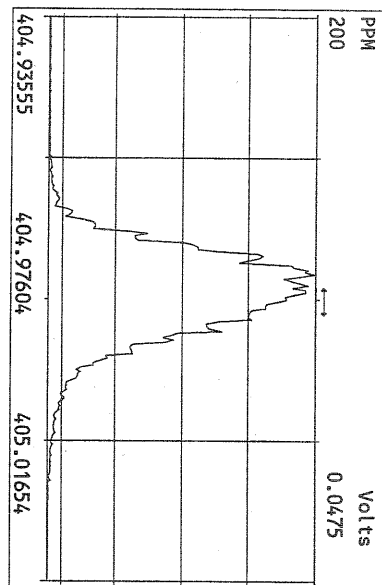
File:09JUL09M #1-348 Acq:10-JUL-2009 02:28:22 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M2 File Text:Frontier Analytical Laboratory
100 %

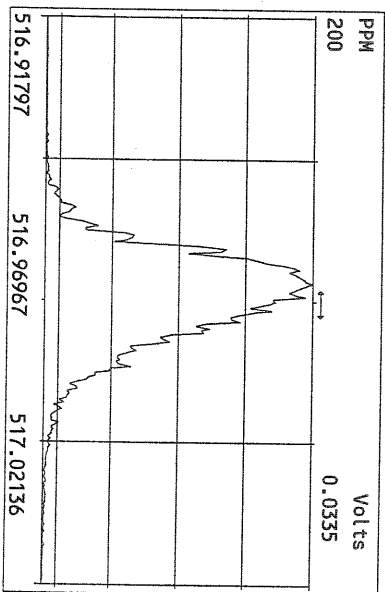
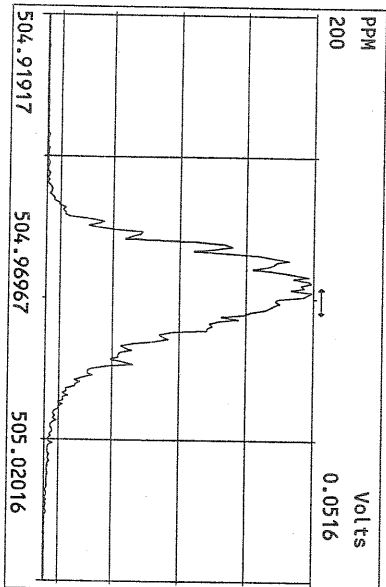
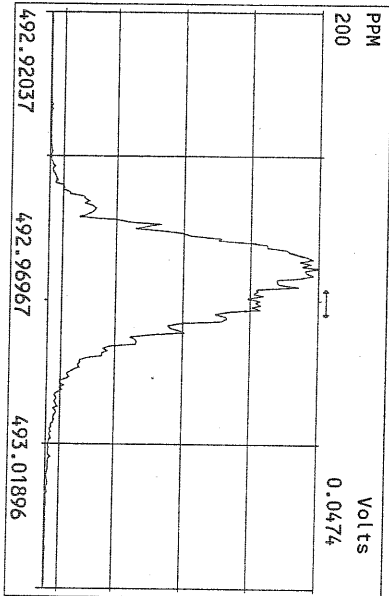
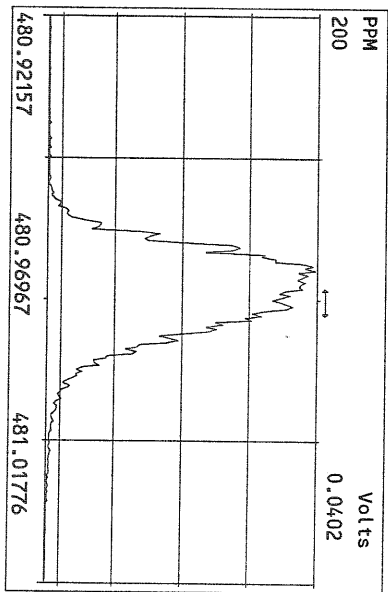
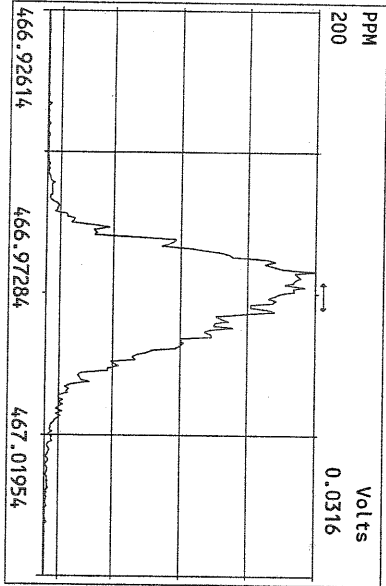
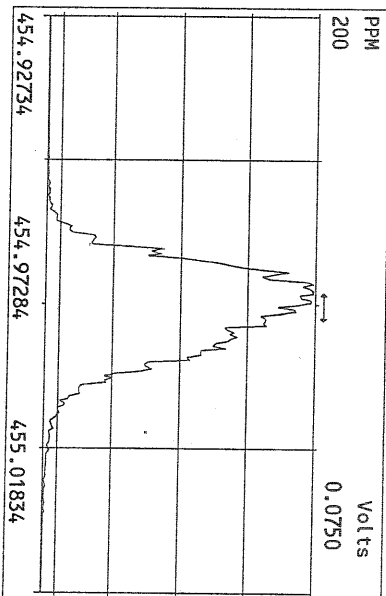
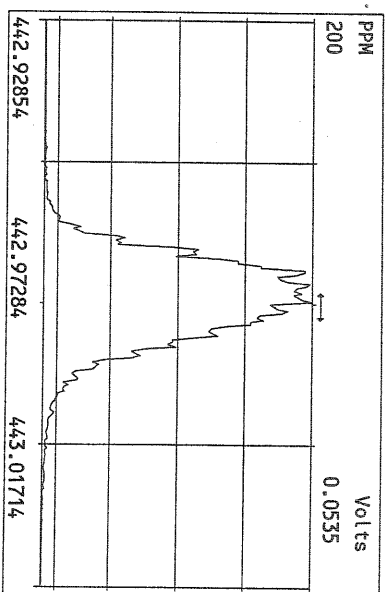
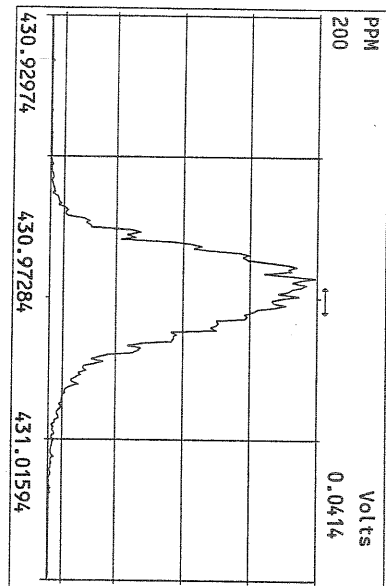












USEPA - ITD

AIR FORM 4A
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 6/29/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 09JUL09M Sam:26

Analysis Date: 10-JUL-09 12:36:19

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.84	0.65-0.89	y	4.04	3.75 - 6.25 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.61	1.32-1.78	y	20.6	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	21.6	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	23.9	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	22.2	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.98	0.88-1.20	y	22.1	18.7 - 31.2 ✓
OCDD	M+2/M+4	0.91	0.76-1.02	y	47.0	37.5 - 62.5 ✓
2,3,7,8-TCDF	M/M+2	0.66	0.65-0.89	y	4.65	3.75 - 6.25 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.69	1.32-1.78	y	21.4	18.7 - 31.2 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.68	1.32-1.78	y	21.6	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.17	1.05-1.43	y	21.4	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.19	1.05-1.43	y	22.2	18.7 - 31.2 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.18	1.05-1.43	y	22.9	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.13	1.05-1.43	y	23.0	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.96	0.88-1.20	y	21.9	18.7 - 31.2 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	0.94	0.88-1.20	y	23.3	18.7 - 31.2 ✓
OCDF	M+2/M+4	0.91	0.76-1.02	y	45.0	35.0 - 65.0 ✓

Analyst: 8Date: 7/10/09

USEPA - ITD

AIR FORM 4B

PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 6/29/09

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 09JUL09M

Sam:26

Analysis Date: 10-JUL-09 12:36:19

LABELLED COMPOUNDS	M/Z'S FORMING RATIO	ION ABUND. RATIO	QC LIMITS	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL)
13C-2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	105	75.0 - 125 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.72	1.32-1.78	y	107	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.20	1.05-1.43	y	104	75.0 - 125 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	0.88-1.20	y	114	70.0 - 130 ✓
13C-OCDD	M+2/M+4	0.93	0.76-1.02	y	206	140 - 260 ✓
13C-2,3,7,8-TCDF	M/M+2	0.88	0.65-0.89	y	104	70.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.73	1.32-1.78	y	108	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.50	0.43-0.59	y	92.2	70.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.46	0.37-0.51	y	90.1	70.0 - 130 ✓
13C-OCDF	M+2/M+4	0.96	0.76-1.02	y	198	140 - 260 ✓
CLEANUP SURROGATE						
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.43-0.59	y	94.2	75.0 - 125 ✓
PRE-SPIKE SURROGATE						
37Cl-2,3,7,8-TCDD					96.2	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.21	1.05-1.43	y	92.8	75.0 - 125 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.69	1.32-1.78	y	102	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	95.8	75.0 - 125 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.45	0.37-0.51	y	104	75.0 - 125 ✓

Analyst: Date: 7/10/09

Air Form 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 6/29/09
RT Window Data Filename: 09JUL09M Sam:26 Analysis Date: 10-JUL-09 Time: 12:36:19
DB-5 IS Data Filename: 09JUL09M Sam:26 Analysis Date: 10-JUL-09 Time: 12:36:19
DB-225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:28 ✓	1,3,6,8-TCDF (F)	23:08 ✓
1,2,8,9-TCDD (L)	28:25 ✓	1,2,8,9-TCDF (L)	28:38 ✓
1,2,4,7,9-PeCDD (F)	30:20 ✓	1,3,4,6,8-PeCDF (F)	28:31 ✓
1,2,3,8,9-PeCDD (L)	33:53 ✓	1,2,3,8,9-PeCDF (L)	34:17 ✓
1,2,4,6,7,9-HxCDD (F)	36:14 ✓	1,2,3,4,6,8-HxCDF (F)	35:20 ✓
1,2,3,7,8,9-HxCDD (L)	39:17 ✓	1,2,3,7,8,9-HxCDF (L)	39:52 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:54 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:23 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:18 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:12 ✓

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

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

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

Analyst: 8 Date: 7/10/09

FAL ID: ST070909M4 Filename: 09JUL09M Sam:26 Acquired: 10-JUL-09 12:36:19 ICal: AIRFAL3-6-29-09
Client ID: AIR CS3 (090121I) ConCal: ST070909M2 EndCal: ST070909M3
Results: 5562 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 43.

	Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
	2,3,7,8-TCDD	6.76e+05	0.84 y	27:29	1.14	4.04		2.50	-	*	
	1,2,3,7,8-PeCDD	2.41e+06	1.61 y	33:18	1.14	20.6		2.50	-	*	
	1,2,3,4,7,8-HxCDD	2.36e+06	1.25 y	38:41	1.37	21.6		2.50	-	*	
	1,2,3,6,7,8-HxCDD	2.36e+06	1.24 y	38:51	1.24	23.9		2.50	-	*	
	1,2,3,7,8,9-HxCDD	2.39e+06	1.23 y	39:17	1.35	22.2		2.50	-	*	
	1,2,3,4,6,7,8-HpCDD	2.30e+06	0.98 y	44:18	1.15	22.1		2.50	-	*	
	OCDD	3.39e+06	0.91 y	49:54	1.43	47.0		2.50	-	*	
	2,3,7,8-TCDF	1.05e+06	0.66 y	26:43	1.14	4.65		2.50	-	*	
	1,2,3,7,8-PeCDF	2.88e+06	1.69 y	31:34	0.90	21.4		2.50	-	*	
	2,3,4,7,8-PeCDF	2.75e+06	1.68 y	32:52	0.86	21.6		2.50	-	*	
	1,2,3,4,7,8-HxCDF	2.71e+06	1.17 y	37:17	1.02	21.4		2.50	-	*	
	1,2,3,6,7,8-HxCDF	2.87e+06	1.19 y	37:29	1.04	22.2		2.50	-	*	
	2,3,4,6,7,8-HxCDF	2.68e+06	1.18 y	38:25	0.94	22.9		2.50	-	*	
	1,2,3,7,8,9-HxCDF	2.50e+06	1.13 y	39:52	0.88	23.0		2.50	-	*	
	1,2,3,4,6,7,8-HpCDF	2.29e+06	0.96 y	42:23	1.51	21.9		2.50	-	*	
	1,2,3,4,7,8,9-HpCDF	1.81e+06	0.94 y	45:12	1.11	23.3		2.50	-	*	
	OCDF	3.30e+06	0.91 y	50:16	0.87	45.0		2.50	-	*	
											Rec
	13C-2,3,7,8-TCDD	1.46e+07	0.76 y	27:27	1.21	105					105
	13C-1,2,3,7,8-PeCDD	1.02e+07	1.72 y	33:17	0.83	107					107
	13C-1,2,3,6,7,8-HxCDD	7.97e+06	1.20 y	38:49	0.99	104					104
	13C-1,2,3,4,6,7,8-HpCDD	9.04e+06	1.08 y	44:16	1.03	114					114
	13C-OCDD	1.01e+07	0.93 y	49:53	0.64	206					103
	13C-2,3,7,8-TCDF	1.97e+07	0.88 y	26:43	1.33	104					104
	13C-1,2,3,7,8-PeCDF	1.49e+07	1.73 y	31:33	0.96	108					108
	13C-1,2,3,6,7,8-HxCDF	1.24e+07	0.50 y	37:28	1.75	92.2					92.2
	13C-1,2,3,4,6,7,8-HpCDF	6.95e+06	0.46 y	42:22	1.00	90.1					90.1
	13C-OCDF	1.69e+07	0.96 y	50:14	1.11	198					98.9
	13C-1,2,3,7,8,9-HxCDF	1.02e+07	0.51 y	39:50	1.40	94.2					94.2
	37Cl-2,3,7,8-TCDD	7.83e+06		27:29	0.56	96.2					96.2
	13C-1,2,3,4,7,8-HxCDD	7.78e+06	1.21 y	38:39	1.05	92.8					92.8
	13C-2,3,4,7,8-PeCDF	1.42e+07	1.69 y	32:52	0.93	102					102
	13C-1,2,3,4,7,8-HxCDF	1.19e+07	0.51 y	37:16	1.00	95.8					95.8
	13C-1,2,3,4,7,8,9-HpCDF	5.97e+06	0.45 y	45:11	0.82	104					104
	13C-1,2,3,4-TCDD	1.15e+07	0.78 y	26:54	-	27.5					
	13C-2,3,7,8-TCDF	1.43e+07	0.88 y	25:37	-	21.2					
	13C-1,2,3,7,8,9-HxCDD	7.70e+06	1.23 y	39:16	-	26.1					
								Fac	Noise	DL	#Hom
	Total Tetra-Dioxins	2.91e+06		23:06	1.14	17.4		2.50	-	*	23
	Total Penta-Dioxins	7.24e+06		30:20	1.14	61.9		2.50	-	*	19
	Total Hexa-Dioxins	9.98e+06		35:49	1.32	94.9		2.50	-	*	24
	Total Hepta-Dioxins	5.06e+06		42:11	1.15	48.4		2.50	-	*	33
	Total Tetra-Furans	3.82e+06		23:08	1.14	17.0		2.50	-	*	15
1st Fn.	Tot Penta-Furans	4.24e+06		28:31	0.88	32.4		2.50	-	*	4
	Total Penta-Furans	8.34e+06		30:07	0.88	63.7		2.50	-	*	28
	Total Hexa-Furans	1.41e+07		35:20	0.97	117		2.50	-	*	29
	Total Hepta-Furans	4.27e+06		41:40	1.31	47.1		2.50	-	*	36
											PeCDF
											96.1

Analyst: _____

Date: 7/10/09

Frontier Analytical Laboratory - Acquisition Log

Run Name:09JUL09M

Instrument: FAL3

GC: DB5

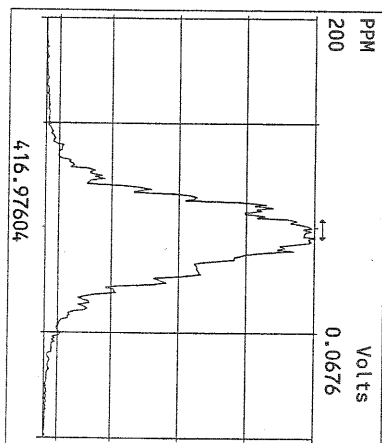
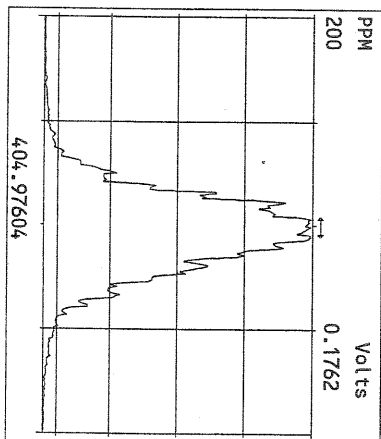
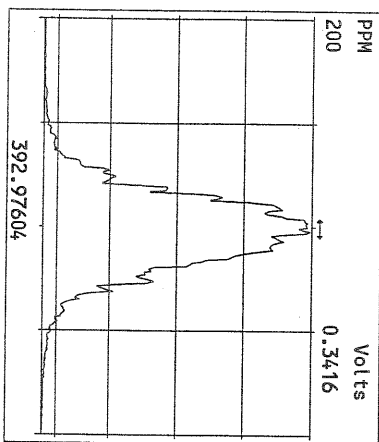
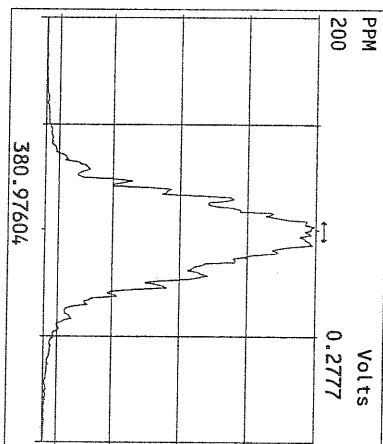
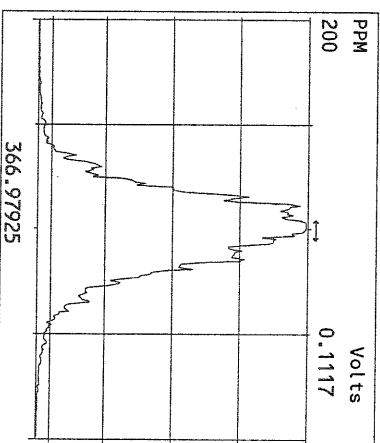
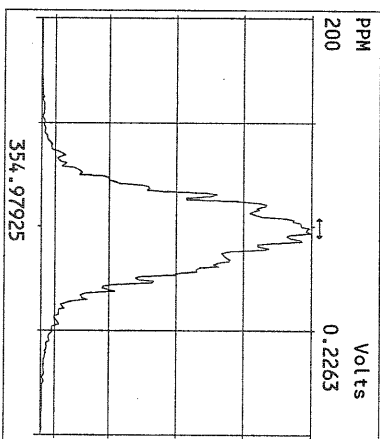
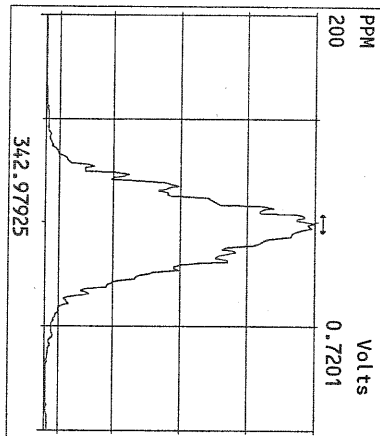
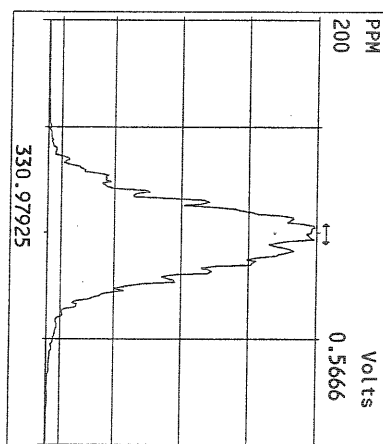
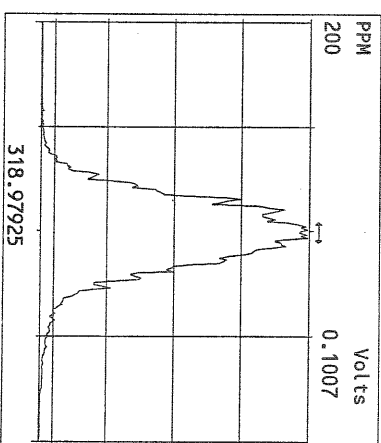
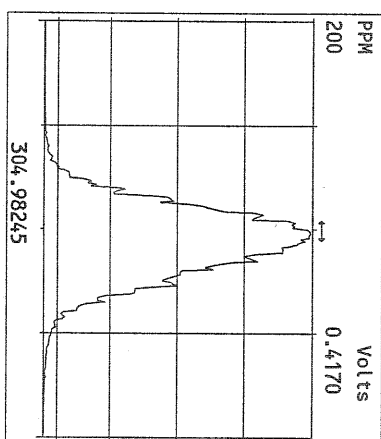
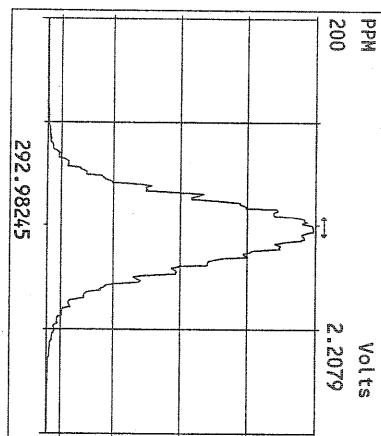
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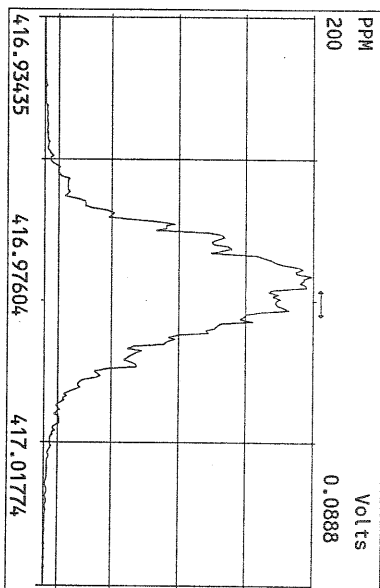
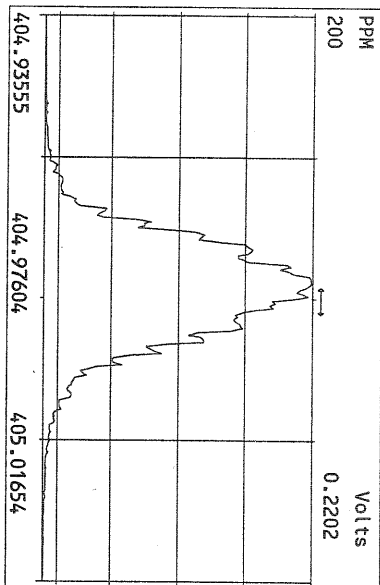
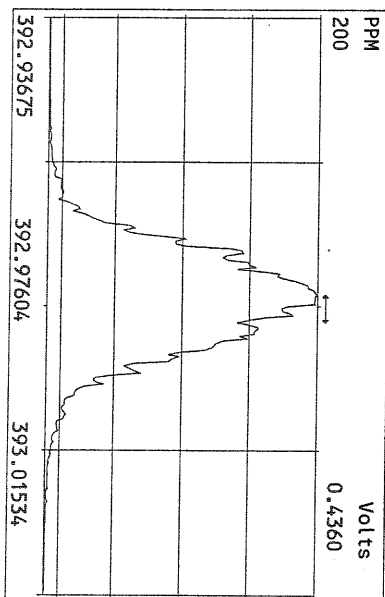
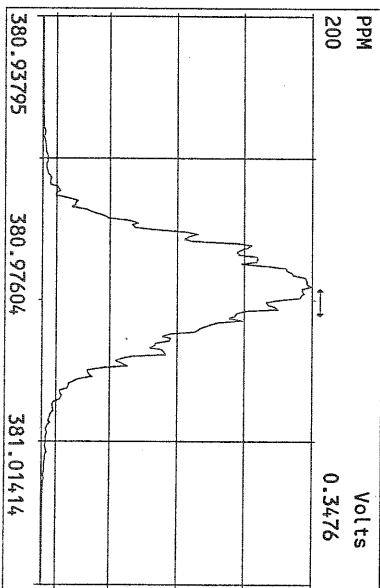
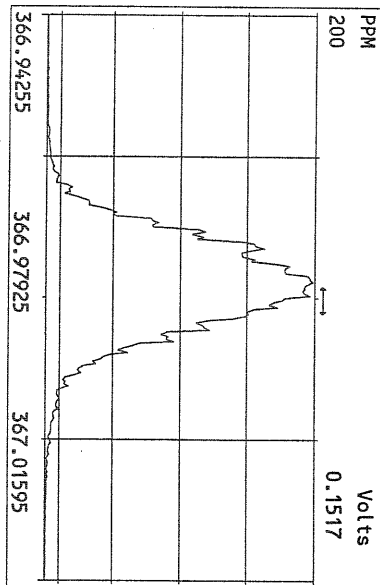
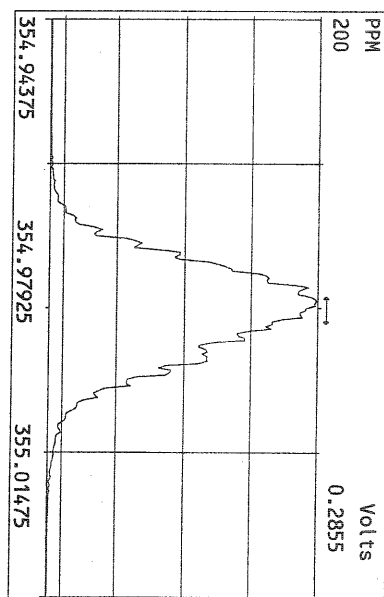
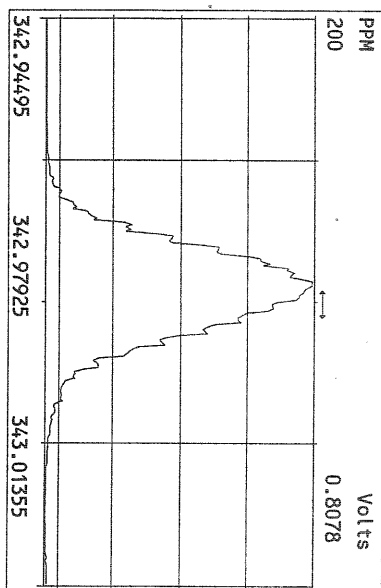
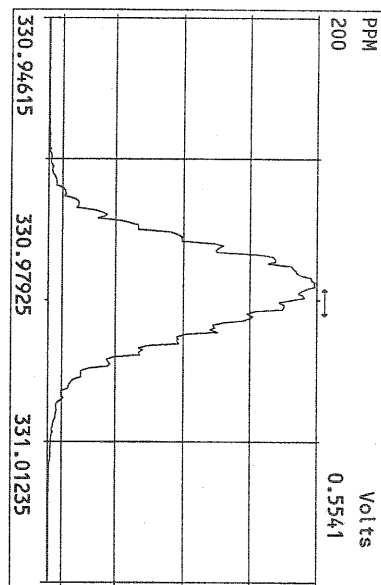
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09JUL09M	3	1754-001-0001-LC2	LCS2	9-JUL-09 15:24:53	ST070909M1	ST070909M2	BS
09JUL09M	4	1754-001-0001-MB	Method Blank	9-JUL-09 16:20:15	ST070909M1	ST070909M2	BS
09JUL09M	5	5557-007-0001-SA	CAMU-S3-061609BS	9-JUL-09 17:15:38	ST070909M1	ST070909M2	BS
09JUL09M	6	5557-001-0001-SA	CAMU-S1-061809	9-JUL-09 18:11:01	ST070909M1	ST070909M2	BS
09JUL09M	7	5557-002-0001-SA	CAMU-S3-061809	9-JUL-09 19:06:20	ST070909M1	ST070909M2	BS
09JUL09M	8	5557-003-0001-SA	OFF-03-061809	9-JUL-09 20:01:38	ST070909M1	ST070909M2	BS
09JUL09M	9	5557-004-0001-SA	OFF-04-061809	9-JUL-09 20:56:57	ST070909M1	ST070909M2	BS
09JUL09M	10	5557-005-0001-SA	CAMU-S1-061609	9-JUL-09 21:52:12	ST070909M1	ST070909M2	BS
09JUL09M	11	5557-006-0001-SA	CAMU-S3-061609	9-JUL-09 22:47:23	ST070909M1	ST070909M2	BS
09JUL09M	12	5557-008-0001-SA	OFF-04-061709	9-JUL-09 23:42:37	ST070909M1	ST070909M2	BS
09JUL09M	13	5557-009-0001-SA	OFF-03-061709	10-JUL-09 00:37:52	ST070909M1	ST070909M2	BS
09JUL09M	14	SB070909M1	Solvent Blank	10-JUL-09 01:33:07	ST070909M1	ST070909M2	BS
09JUL09M	15	ST070909M2	AIR CS3 (0901211)	10-JUL-09 02:28:22	ST070909M2	ST070909M3	BS
09JUL09M	16	ST070909M3	1613 CS3	10-JUL-09 03:23:39	ST070909M2	ST070909M3	BS
09JUL09M	17	1758-001-0001-LC1	LCS1	10-JUL-09 04:18:54	ST070909M2	ST070909M3	BS
09JUL09M	18	1758-001-0001-LC2	LCS2	10-JUL-09 05:14:08	ST070909M2	ST070909M3	BS
09JUL09M	19	1758-001-0001-MB	Method Blank	10-JUL-09 06:09:24	ST070909M2	ST070909M3	BS
09JUL09M	20	QC070909M1	PUFQC062609A	10-JUL-09 07:04:37	ST070909M2	ST070909M3	BS
09JUL09M	21	QC070909M2	FilterQC062609B	10-JUL-09 07:59:52	ST070909M2	ST070909M3	BS
09JUL09M	22	5561-001-0001-SA	OFF03062309	10-JUL-09 08:55:11	ST070909M2	ST070909M3	BS
09JUL09M	23	5561-002-0001-SA	OFF04062309	10-JUL-09 09:50:29	ST070909M2	ST070909M3	BS
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09JUL09M	25	5562-002-0001-SA	CAMUS3062309	10-JUL-09 11:41:00	ST070909M2	ST070909M3	BS
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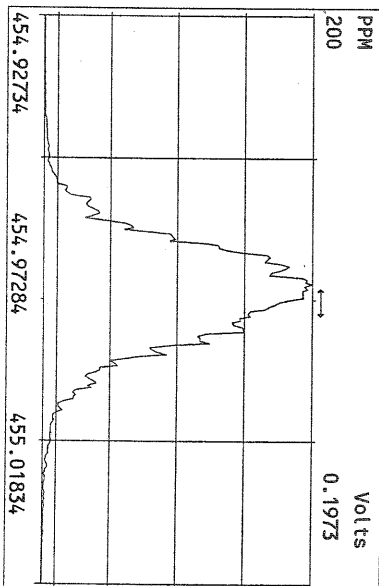
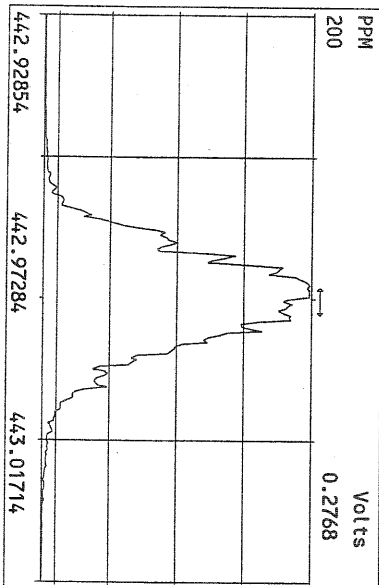
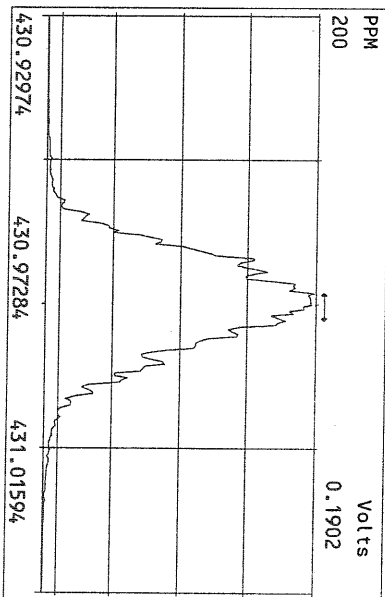
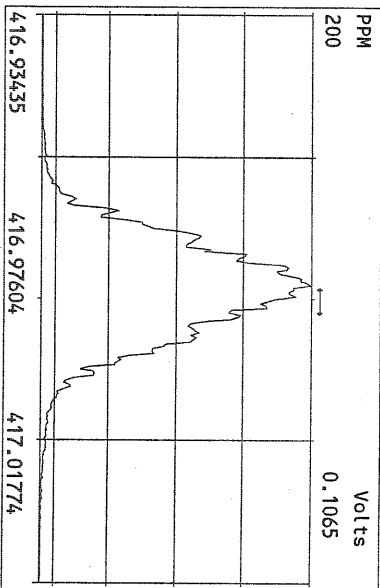
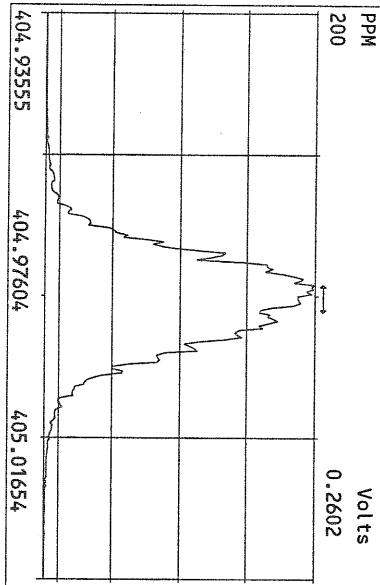
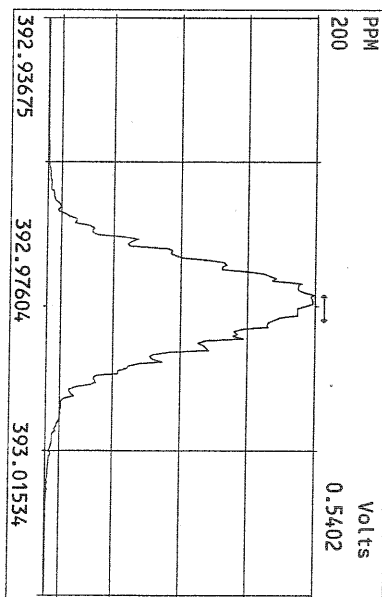
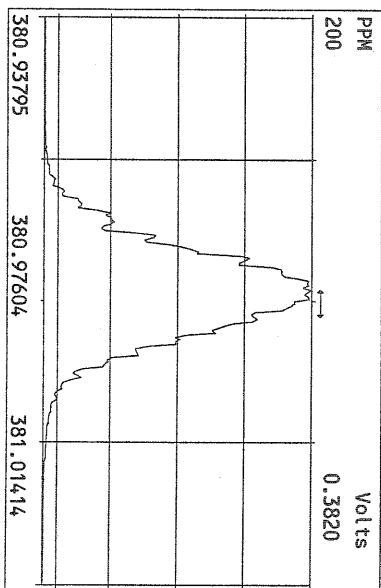
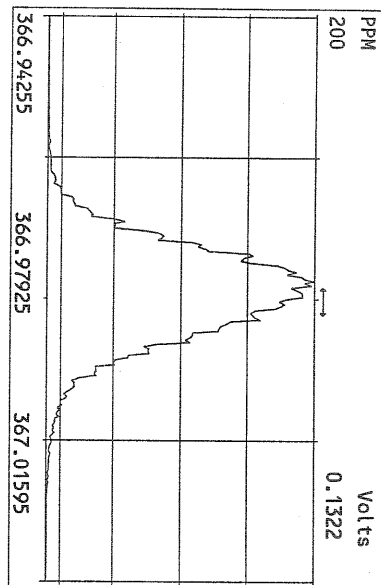
8 7/10/09

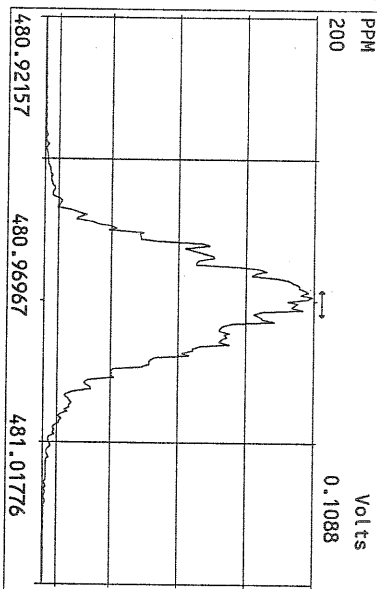
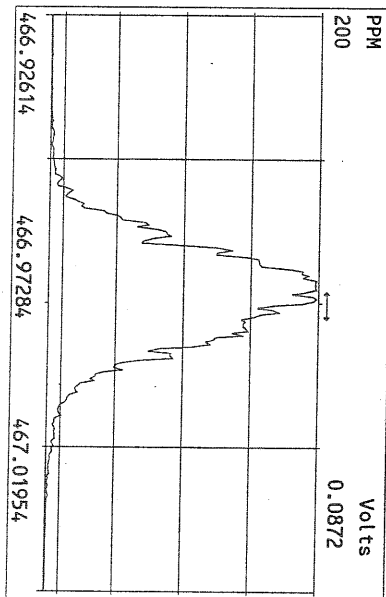
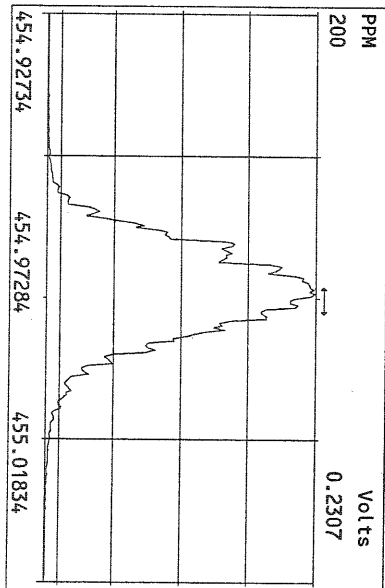
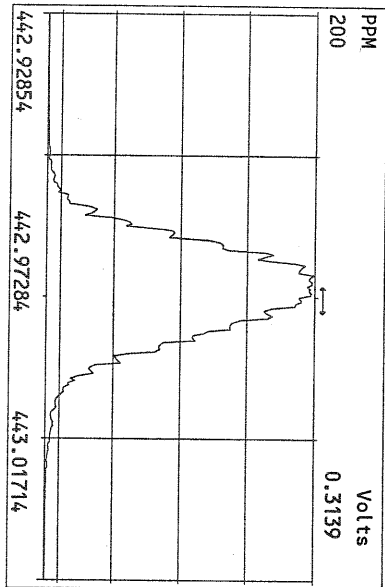
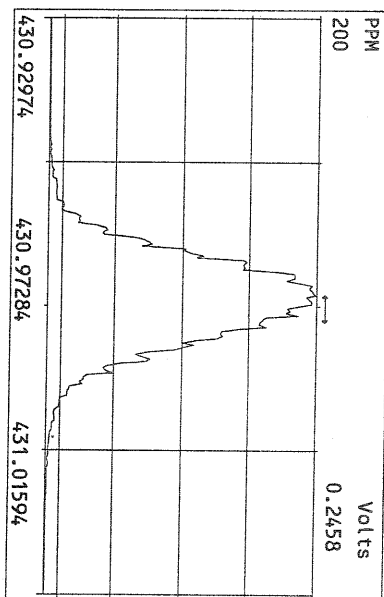
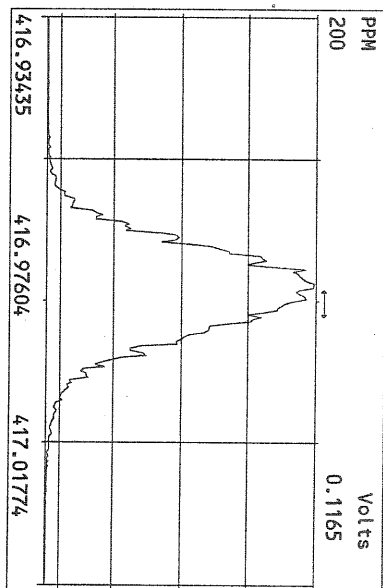
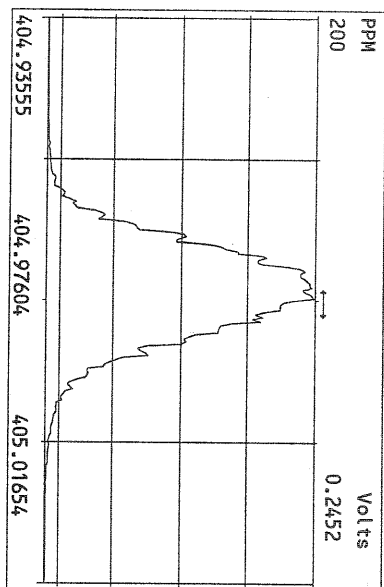
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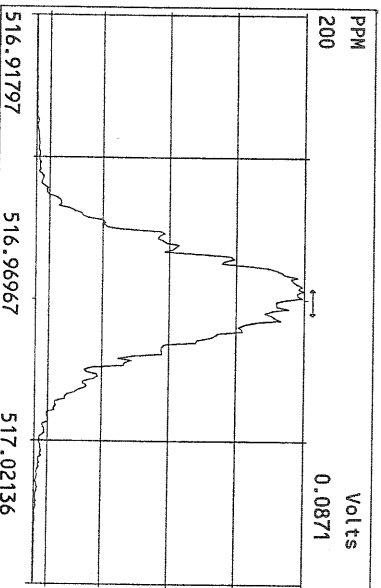
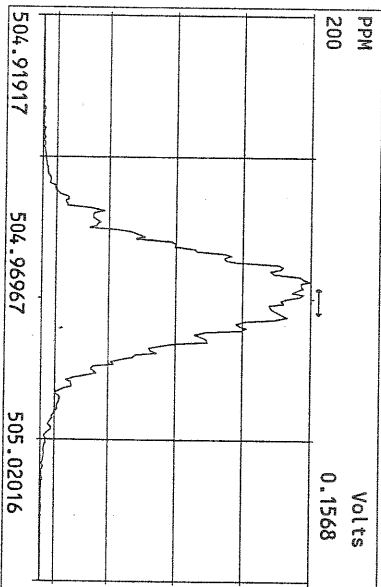
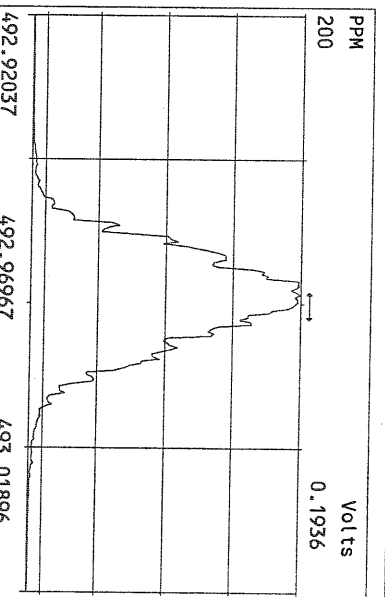
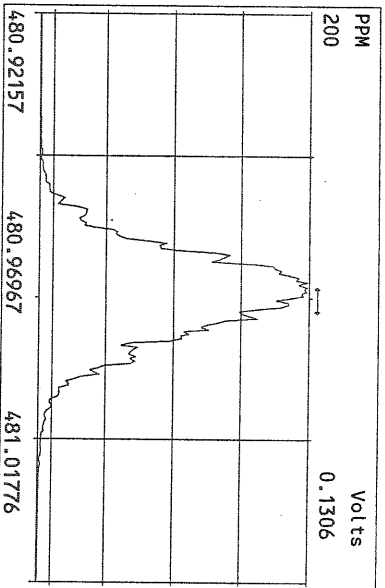
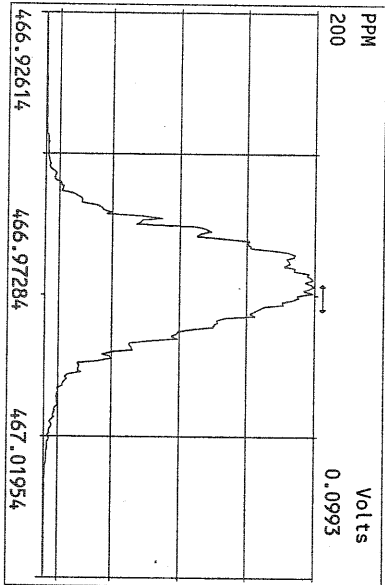
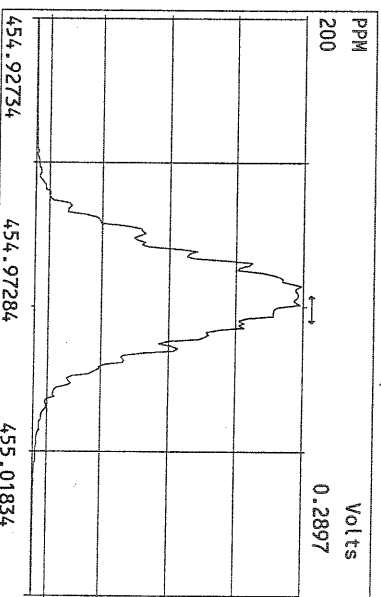
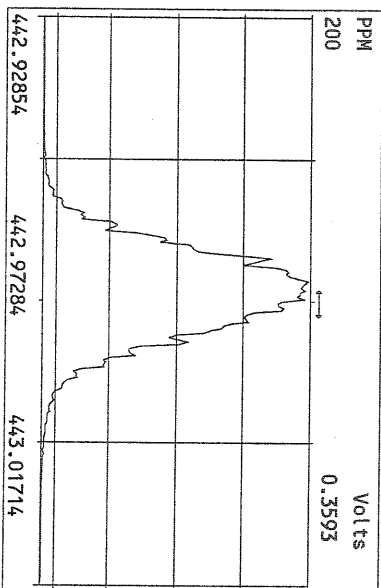
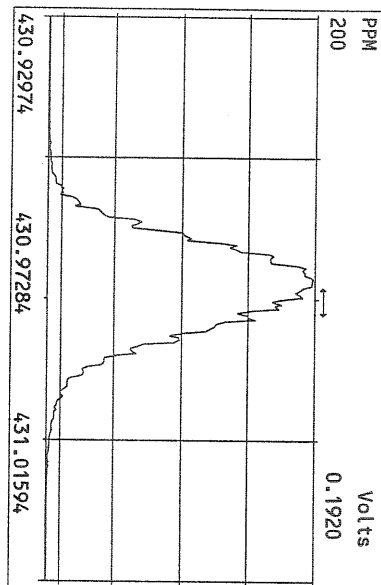
Date: _____



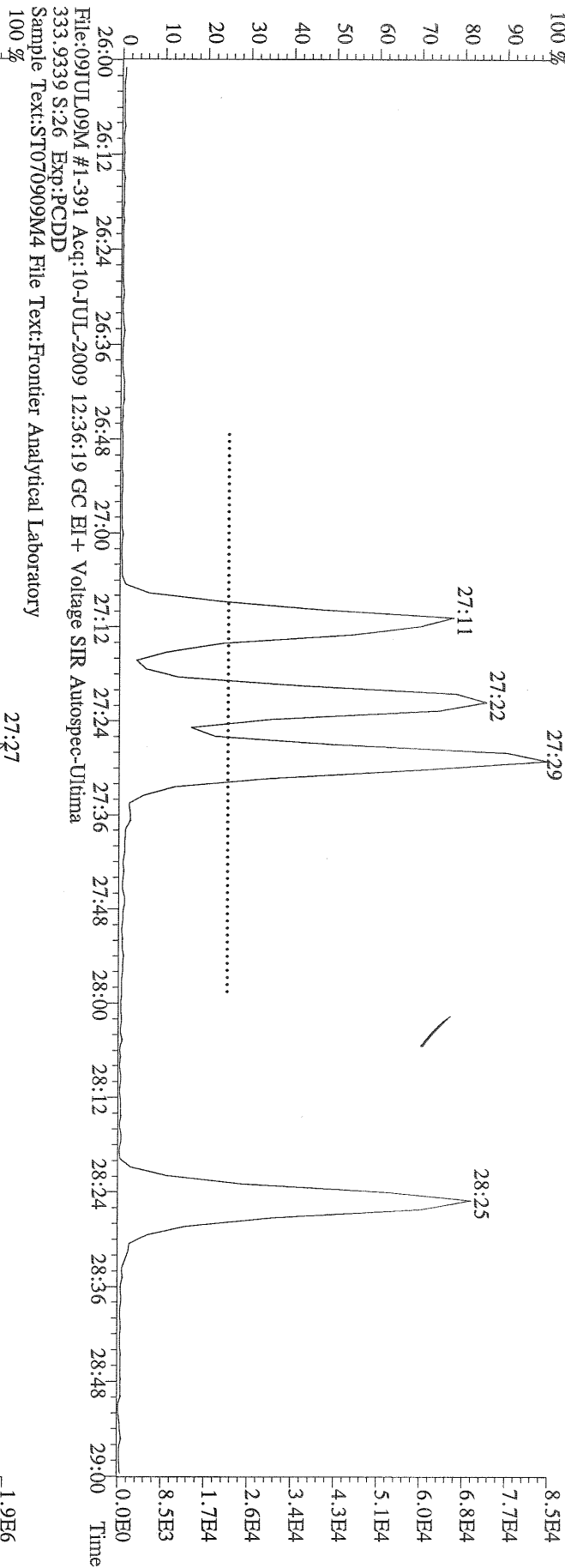




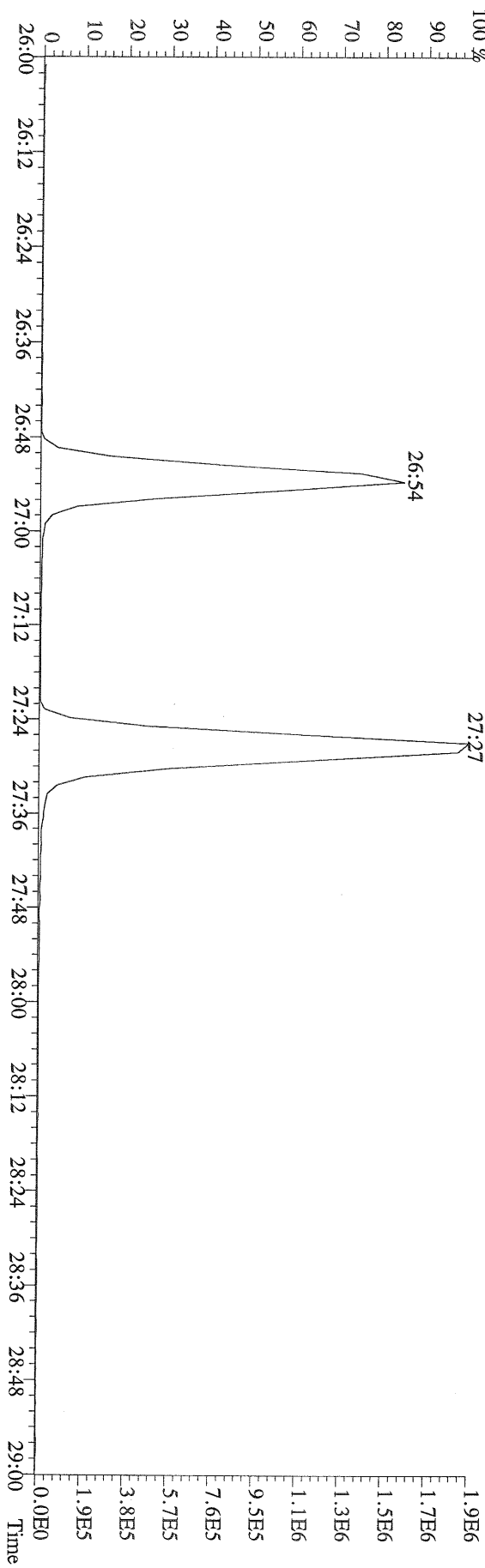




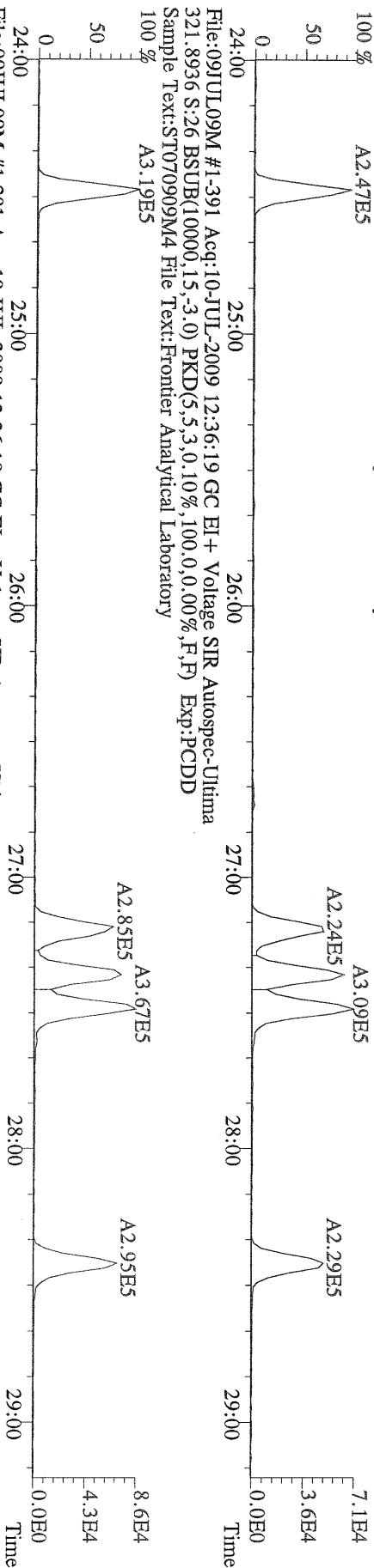
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321.8936 S:26 Exp:PCDD
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100 %



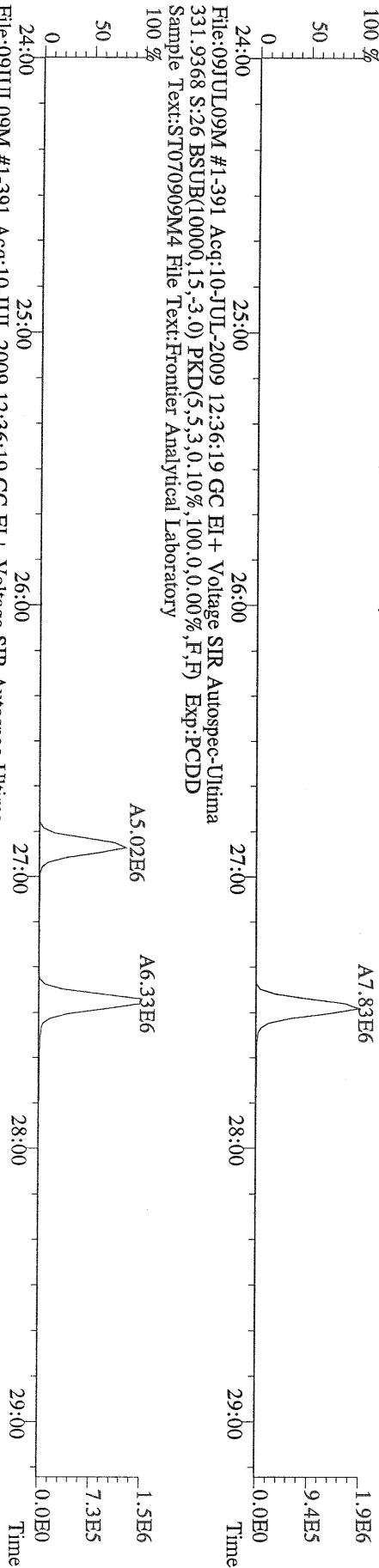
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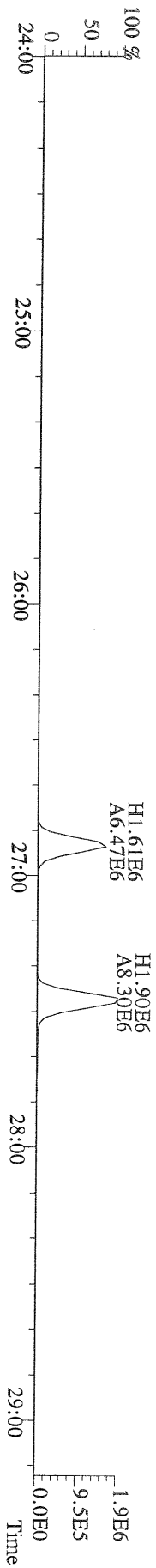
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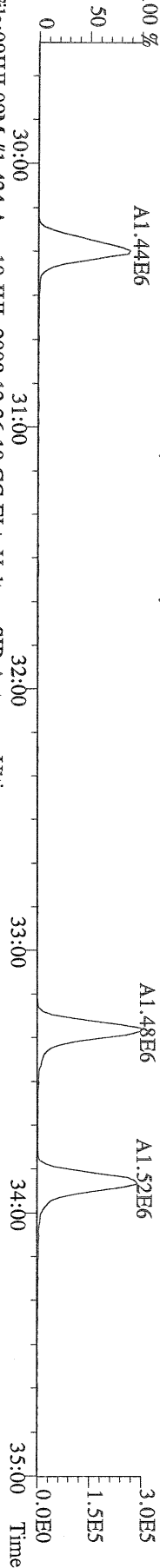
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327.8847 S:2.6 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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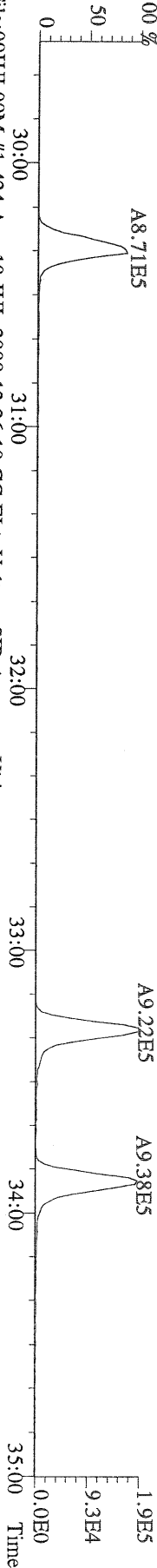
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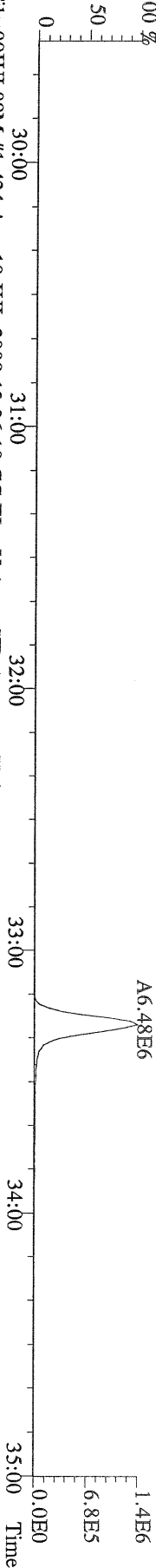
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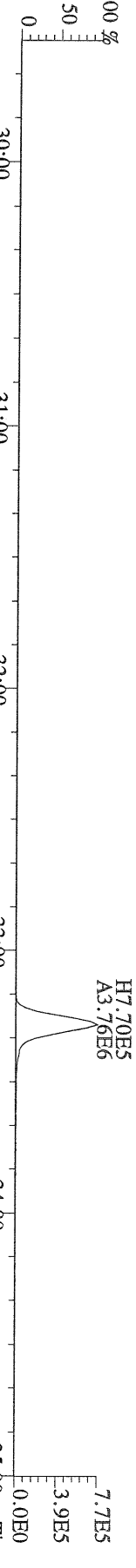
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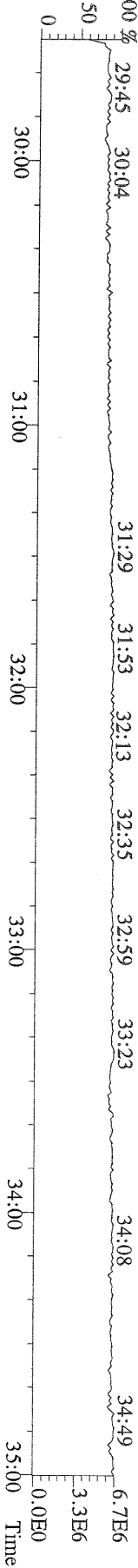
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367.8949 S:26 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



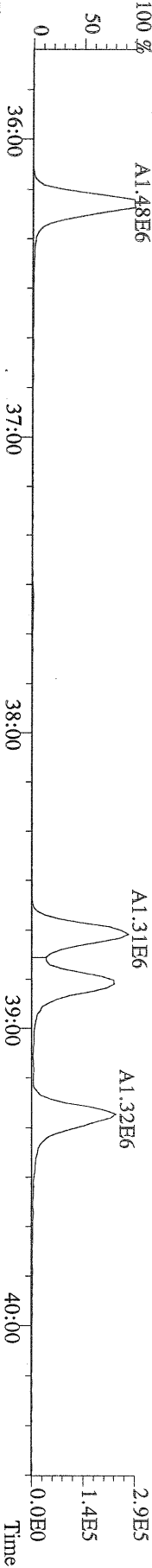
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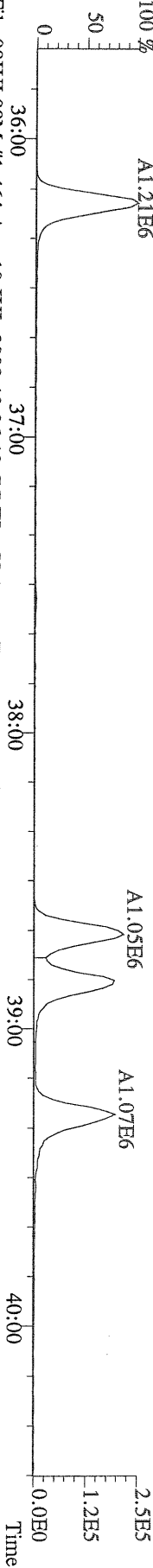
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Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



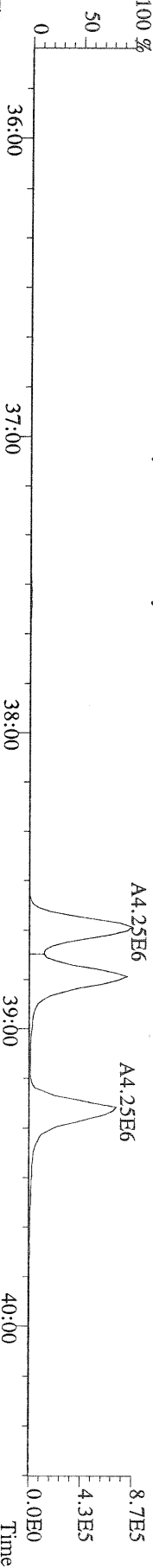
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389.8156 S:2.6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



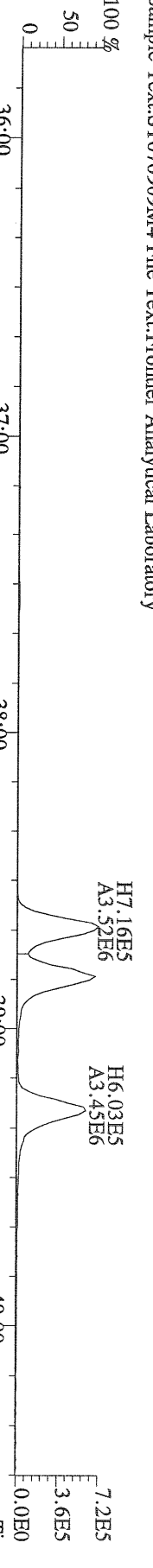
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Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



File:09JUL09M #1-464 Acq:10-JUL-2009 12:36:19 GC EI+ Voltage SIR Autospec-Ultima
401.8559 S:2.6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



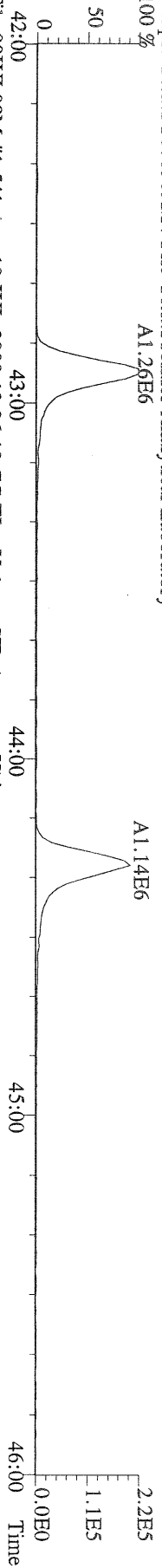
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403.8530 S:2.6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



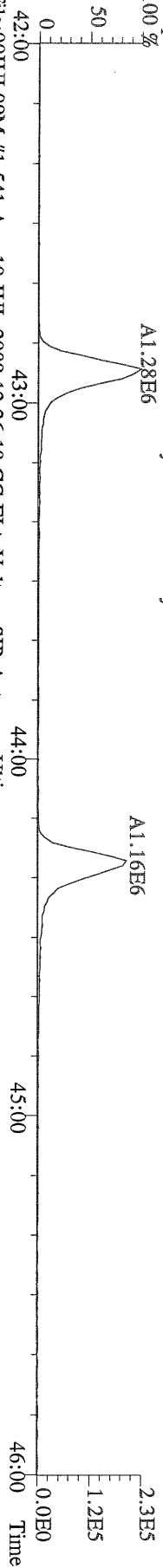
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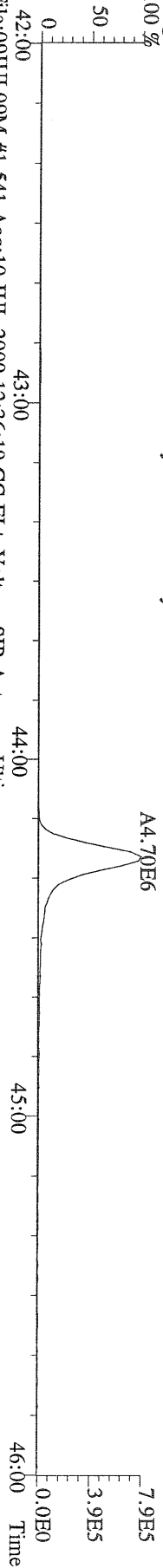
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423.7767 S:2.6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



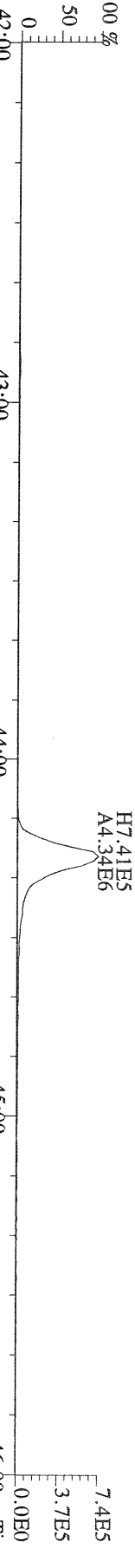
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Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



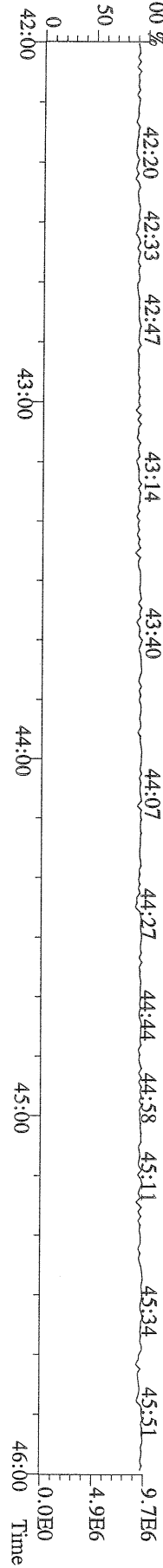
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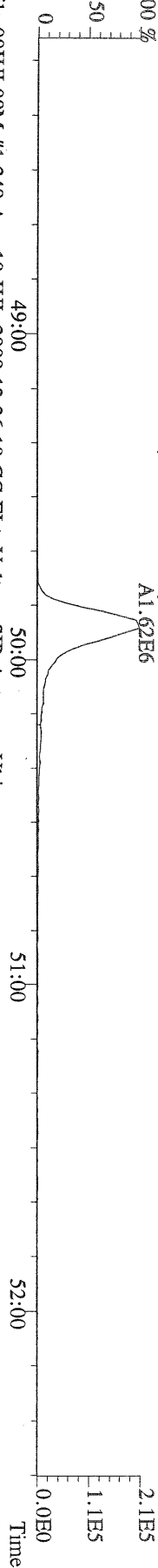
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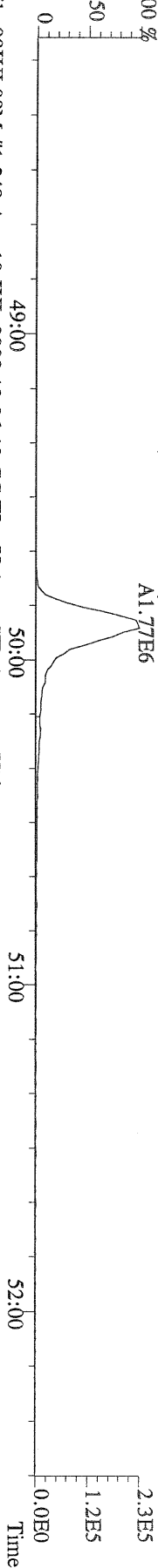
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430.9728 S:2.6 F:4 Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



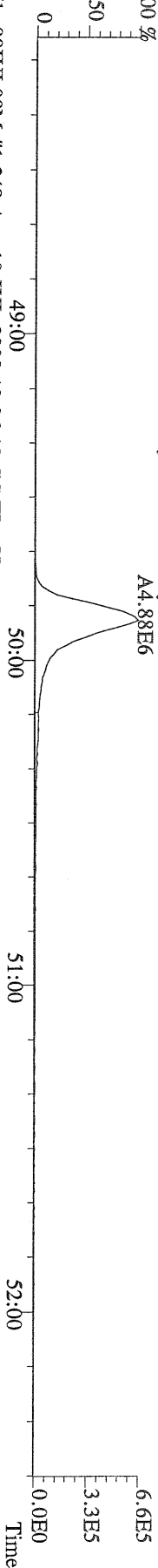
File:09JUL09M #1-348 Acq:10-JUL-2009 12:36:19 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



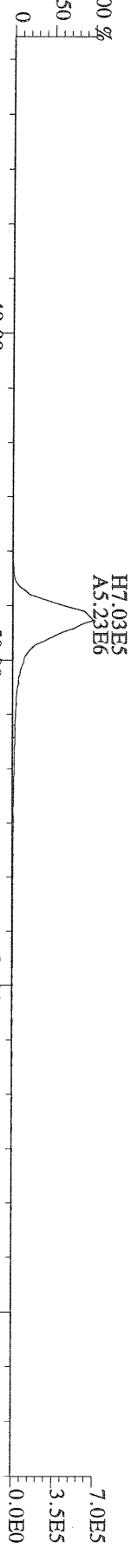
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459.7348 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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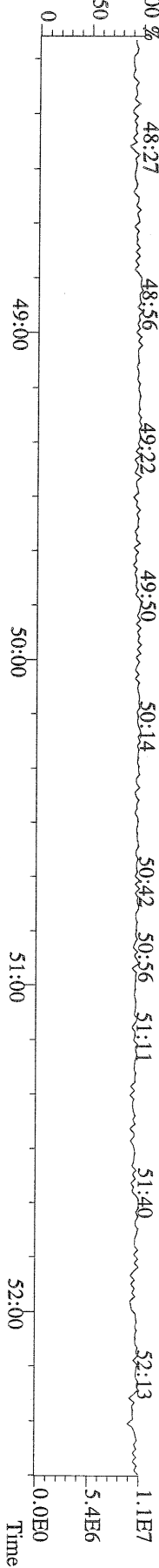
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469.7780 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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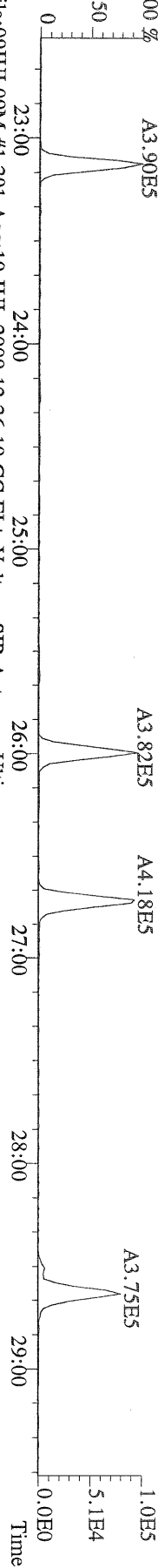
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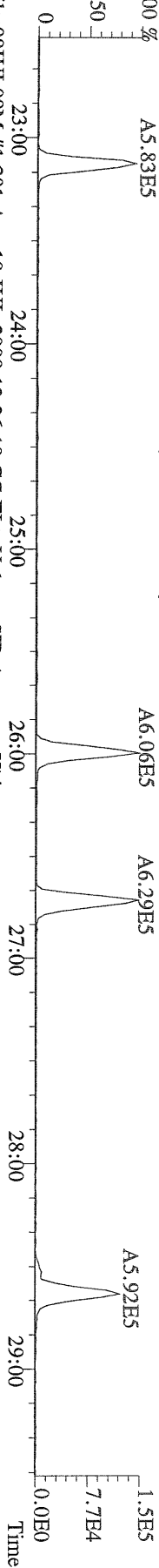
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454.9728 S:26 F:5 Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



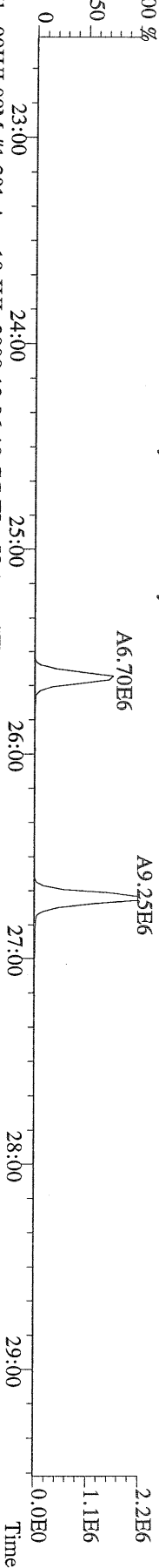
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303.9016 S:2.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



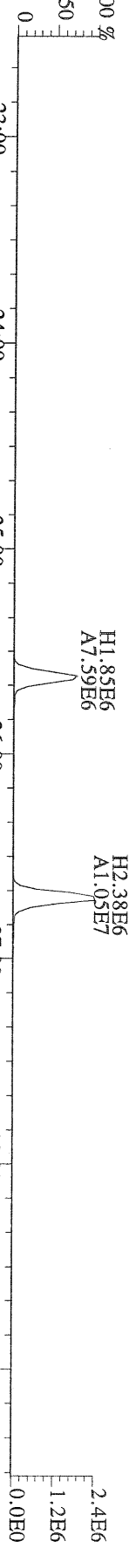
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305.8987 S:2.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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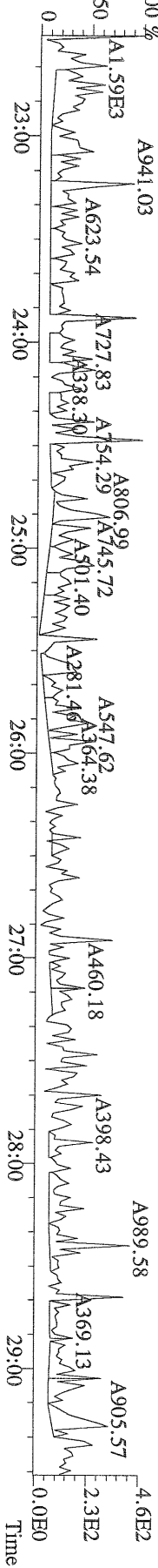
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315.9419 S:2.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



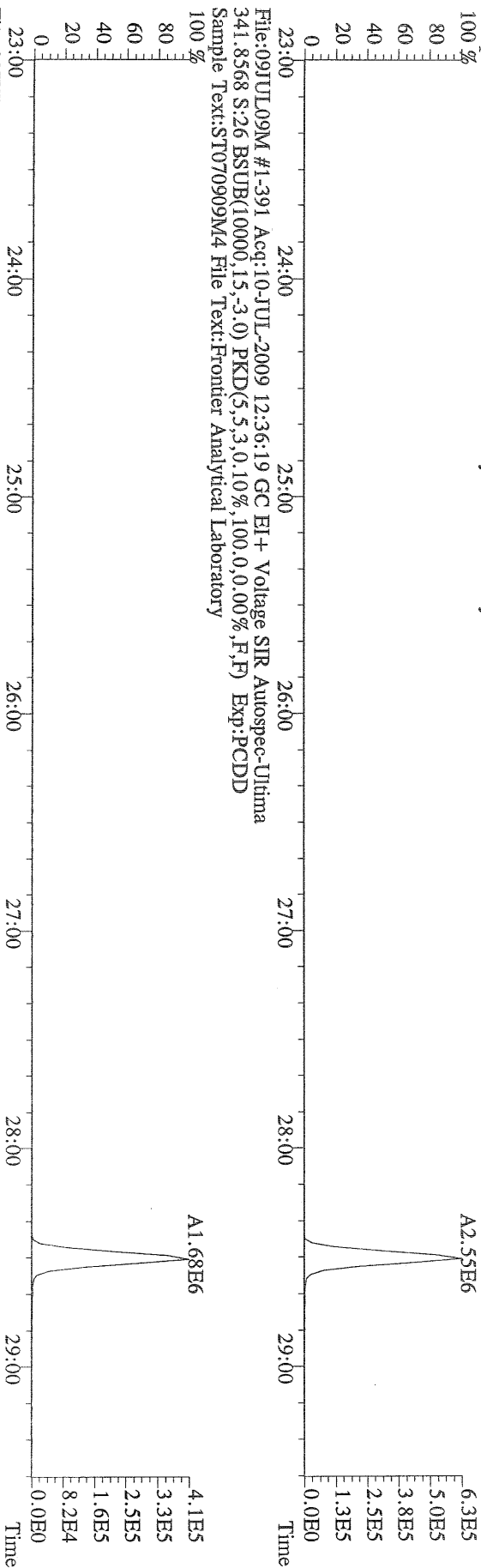
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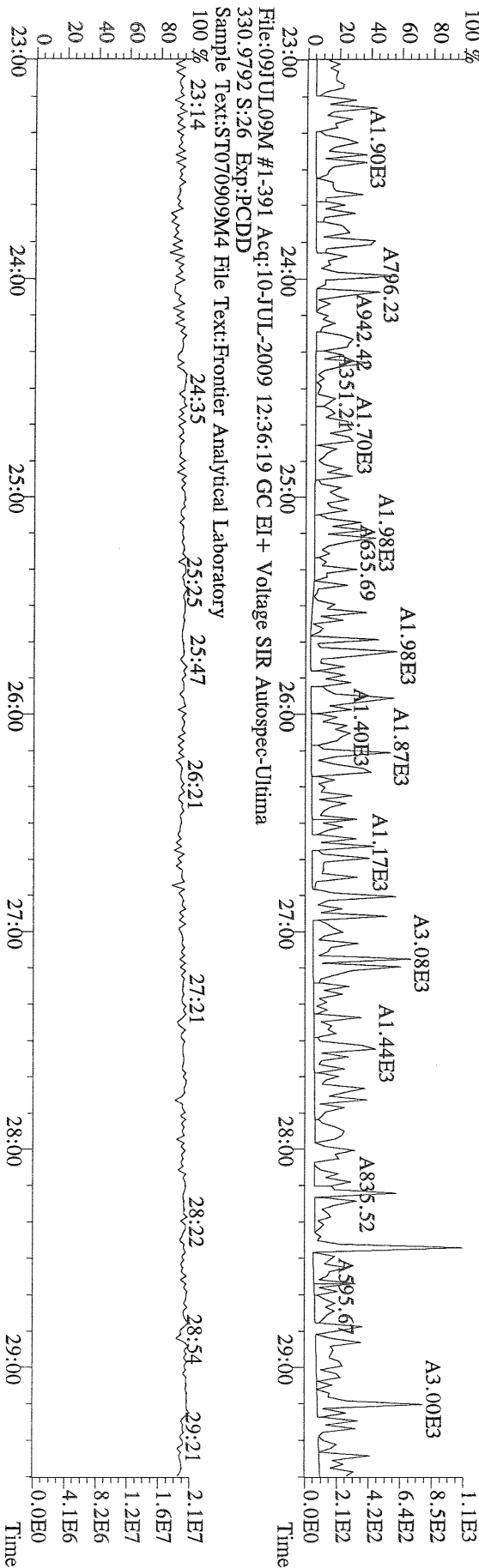
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375.8364 S:2.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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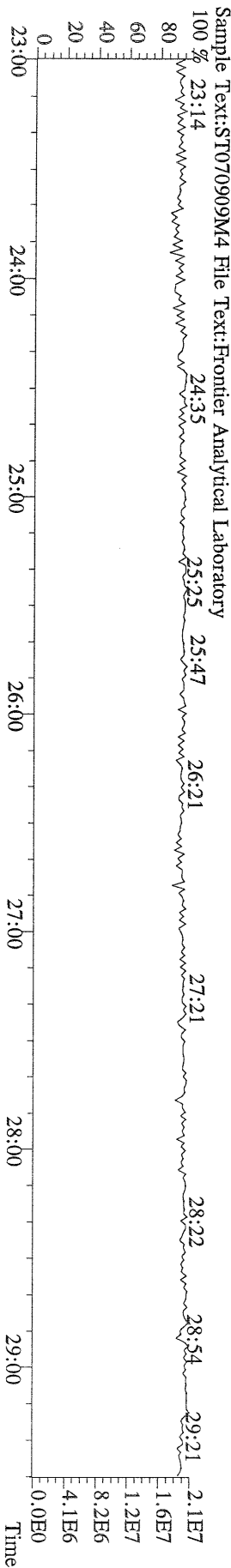
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339.8597 S:26 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



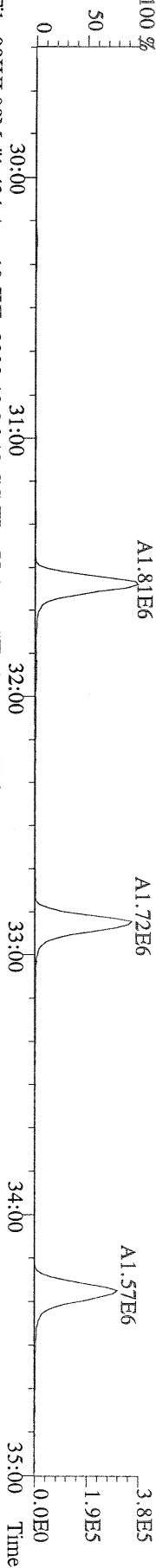
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Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



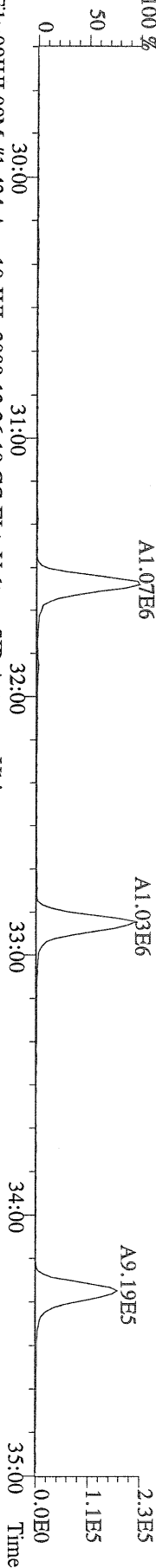
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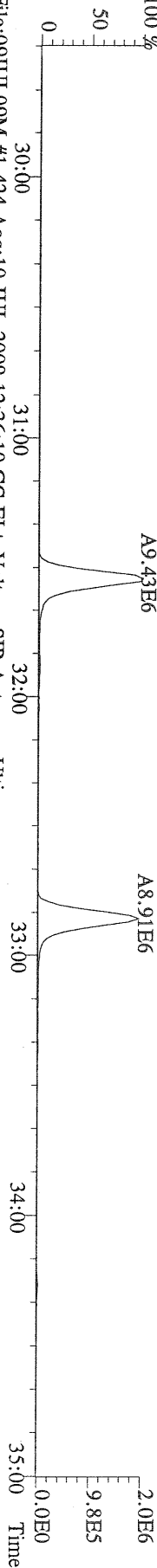
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Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



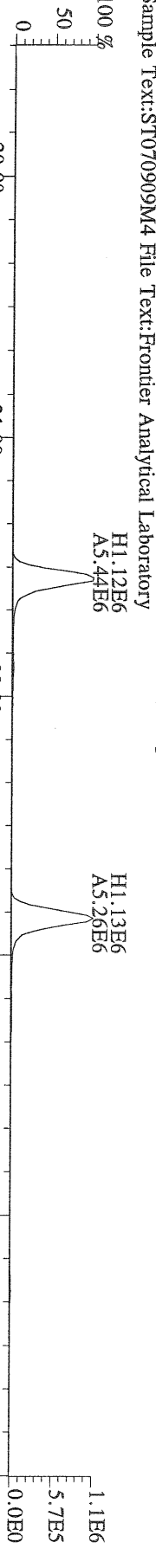
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Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



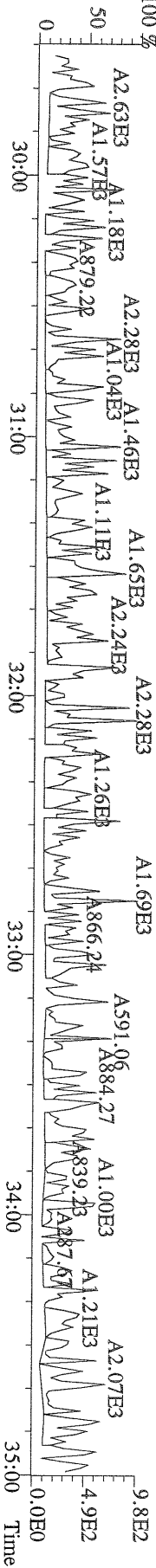
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Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



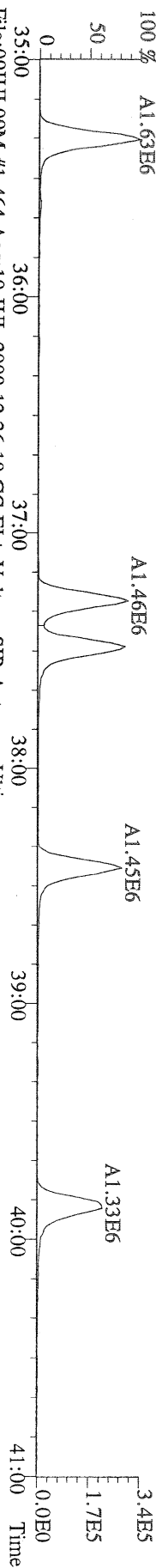
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Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



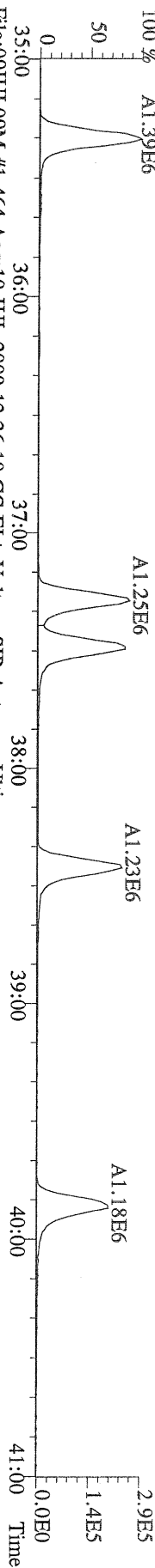
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Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



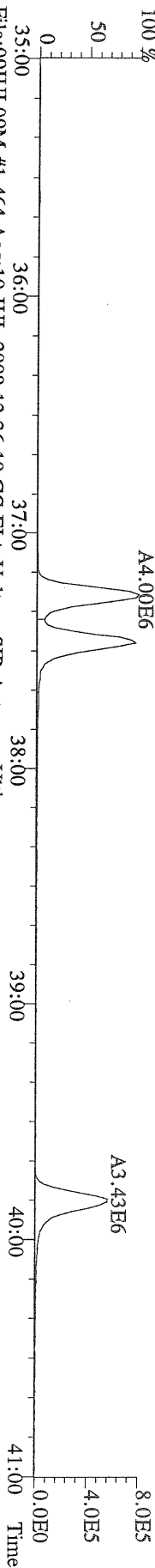
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373.8207 S:2.6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp.:PCDD
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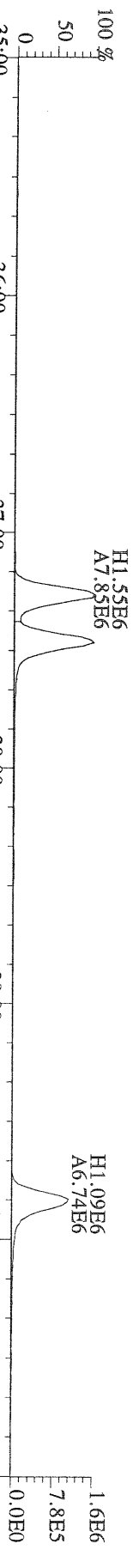
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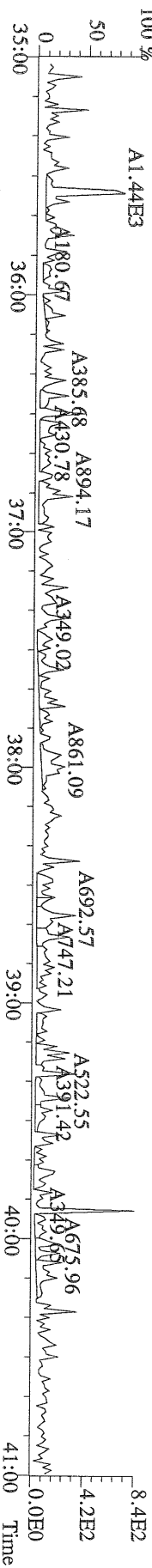
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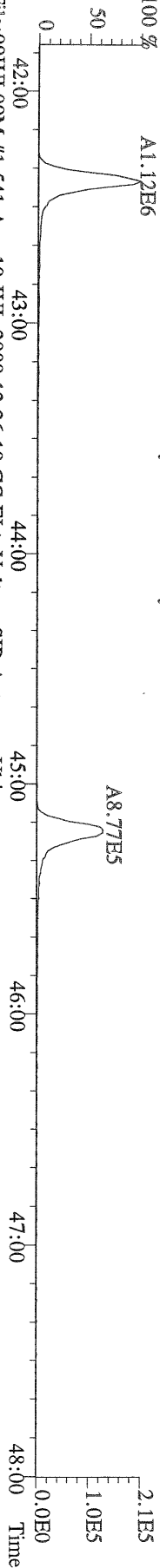
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385.8610 S:2.6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp.:PCDD
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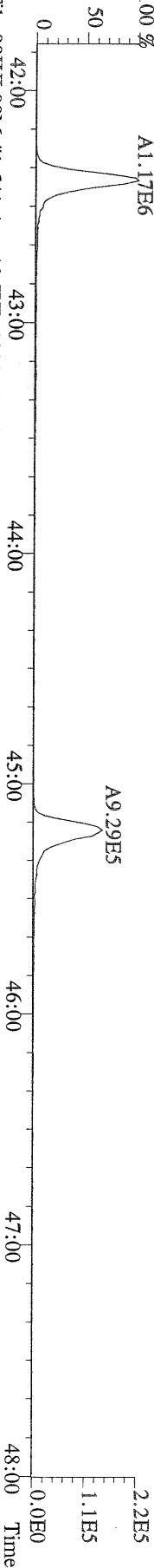
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445.7555 S:2.6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp.:PCDD
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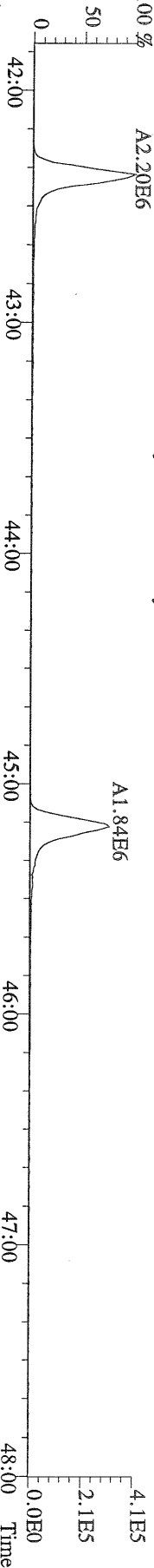
File:09JUL09M #1-541 Acq:10-JUL-2009 12:36:19 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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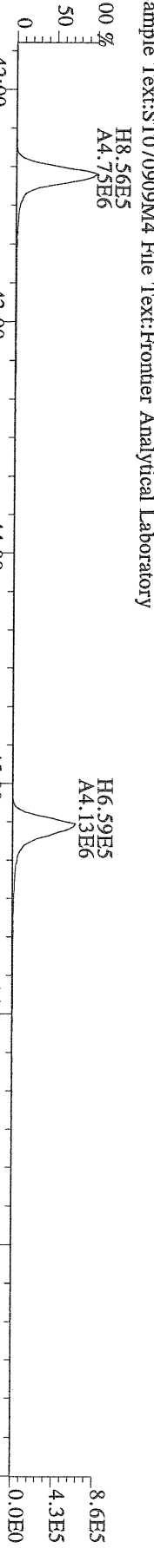
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409.7788 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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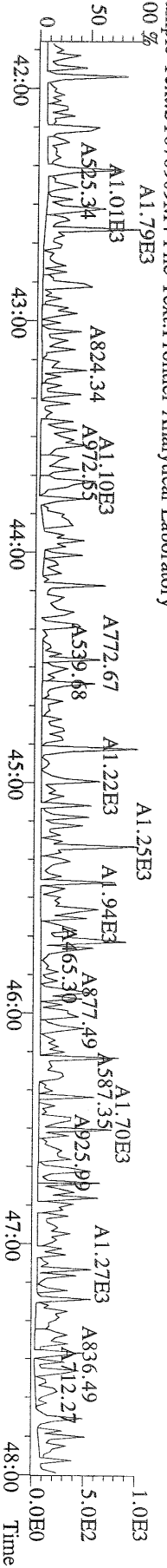
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417.8253 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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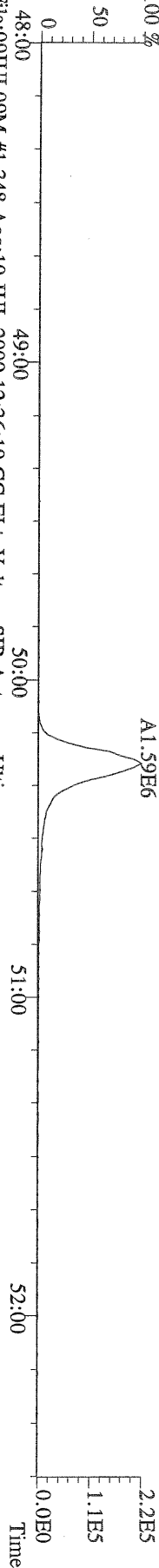
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419.8220 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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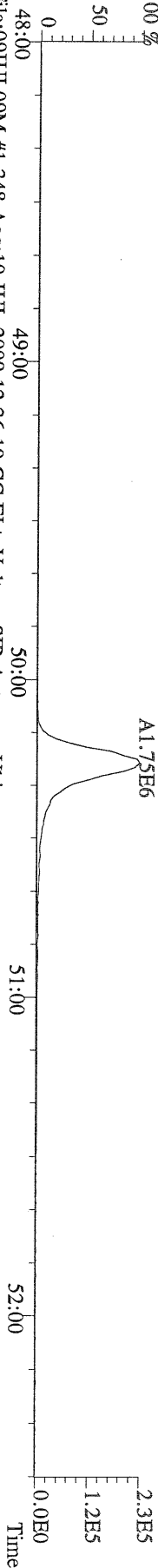
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479.7165 S:26 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



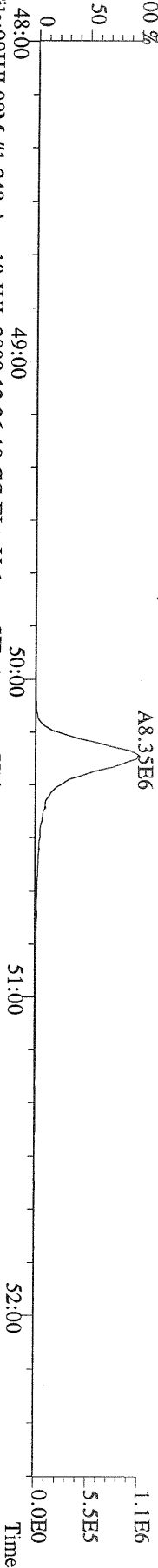
File:09JUL09M #1-348 Acq:10-JUL-2009 12:36:19 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



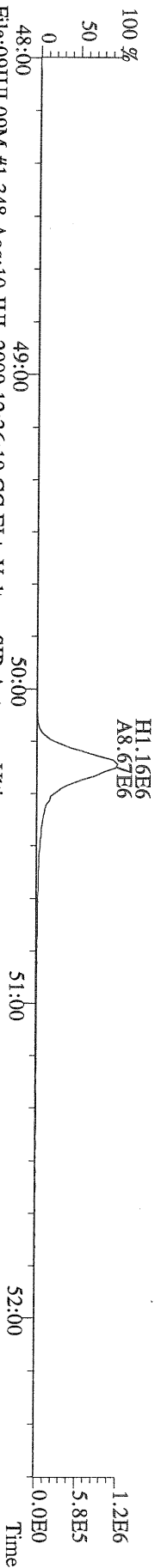
File:09JUL09M #1-348 Acq:10-JUL-2009 12:36:19 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



File:09JUL09M #1-348 Acq:10-JUL-2009 12:36:19 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



File:09JUL09M #1-348 Acq:10-JUL-2009 12:36:19 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory



File:09JUL09M #1-348 Acq:10-JUL-2009 12:36:19 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:26 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST070909M4 File Text:Frontier Analytical Laboratory

