

December 17, 2008

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 **5234**. This corresponds to your project number **103P0333** and purchase order number **0812273C**. The one PUF sample received on 12/11/2008 was extracted and analyzed by EPA Method TO-9 for tetra through octa chlorinated dibenzo dioxins and furans. Air Toxics LTD. requested a Level IV data package and a turnaround time of fifteen business days for project **5234**.

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 original chain of custody, our sample login form and the sample photos. The Laboratory Raw Data section contains our project request sheet, the 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 **5234**, 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

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **5234**

Received on: **12/11/2008**

Project Due: **01/05/2009** Storage: **R2**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
5234-001-SA	0	103PO333	OFF02-120808BS	EPA TO-9 D/F	PUF	12/08/2008	10:00 am	12/15/2008

FAL Sample ID	Notes
5234-001-SA	Using handwritten sampling time from sample packaging for our tracking purposes. DPV 12/11/08

EPA Method TO-9 PCDD/F



FAL ID: 5234-001-MB
Client ID: Method Blank
Matrix: PUF
Batch No: X1594

Date Extracted: 12-12-2008
Date Received: NA
Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
GC Column: DB5
Units: pg/sample

Acquired: 12-15-2008
WHO TEQ: 0.00


Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.73		-	0.779				
1,2,3,7,8-PeCDD	ND	1.18		-	0.866				
1,2,3,4,7,8-HxCDD	ND	2.87		-	2.25				
1,2,3,6,7,8-HxCDD	ND	3.03		-	2.20	Total TCDD	ND	1.73	
1,2,3,7,8,9-HxCDD	ND	2.86		-	2.18	Total PeCDD	ND	1.18	
1,2,3,4,6,7,8-HpCDD	ND	2.05		-	2.71	Total HxCDD	ND	3.03	
OCDD	ND	4.81		-	5.66	Total HpCDD	ND	2.05	
2,3,7,8-TCDF	ND	1.31		-	0.744				
1,2,3,7,8-PeCDF	ND	1.92		-	0.941				
2,3,4,7,8-PeCDF	ND	2.03		-	0.982				
1,2,3,4,7,8-HxCDF	ND	1.18		-	1.47				
1,2,3,6,7,8-HxCDF	ND	1.15		-	1.31				
2,3,4,6,7,8-HxCDF	ND	1.29		-	1.51				
1,2,3,7,8,9-HxCDF	ND	1.53		-	1.85	Total TCDF	ND	1.31	
1,2,3,4,6,7,8-HpCDF	ND	0.924		-	1.12	Total PeCDF	ND	2.03	
1,2,3,4,7,8,9-HpCDF	ND	1.21		-	1.53	Total HxCDF	ND	1.53	
OCDF	ND	3.90		-	4.19	Total HpCDF	ND	1.21	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	68.9	40.0 - 130	
13C-1,2,3,7,8-PeCDD	61.9	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	64.3	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	63.0	25.0 - 130	
13C-OCDD	52.5	25.0 - 130	
13C-2,3,7,8-TCDF	65.6	40.0 - 130	
13C-1,2,3,7,8-PeCDF	64.9	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	64.7	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	57.7	25.0 - 130	
13C-OCDF	64.2	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	69.9	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	93.1	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	103	70.0 - 130	
13C-2,3,4,7,8-PeCDF	73.5	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	105	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	115	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: 12/17/08

Reviewed By: 

Date: 12/17/08

EPA Method TO-9 PCDD/F



FAL ID: 5234-001-LCS1/LCS2
Client ID: LCS1/LCS2
Matrix: PUF

Date Extracted: 12-12-2008
Date Received: NA
LCS1 Amount: 1.00 sample
LCS2 Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
Batch No: X1594
Units: ng/ml

LCS1 Acquired: 12-15-2008
LCS2 Acquired: 12-15-2008
GC Column: DB5

Compound	Amount Spiked (pg)	LCS1 Amount	LCS2 Amount	% RSD	Qual
2,3,7,8-TCDD	200	3.72	3.82	2.65	
1,2,3,7,8-PeCDD	1000	21.5	21.5	0.00	
1,2,3,4,7,8-HxCDD	1000	23.5	23.9	1.69	
1,2,3,6,7,8-HxCDD	1000	22.4	23.0	2.64	
1,2,3,7,8,9-HxCDD	1000	22.7	22.2	2.23	
1,2,3,4,6,7,8-HpCDD	1000	24.8	25.3	2.00	
OCDD	2000	45.0	45.3	0.664	
2,3,7,8-TCDF	200	4.75	4.68	1.48	
1,2,3,7,8-PeCDF	1000	22.3	21.9	1.81	
2,3,4,7,8-PeCDF	1000	21.9	22.8	4.03	
1,2,3,4,7,8-HxCDF	1000	21.5	21.4	0.466	
1,2,3,6,7,8-HxCDF	1000	20.9	20.9	0.00	
2,3,4,6,7,8-HxCDF	1000	21.3	19.7	7.80	
1,2,3,7,8,9-HxCDF	1000	23.9	22.0	8.28	
1,2,3,4,6,7,8-HpCDF	1000	23.1	23.2	0.432	
1,2,3,4,7,8,9-HpCDF	1000	27.2	27.1	0.368	
OCDF	2000	43.7	44.2	1.14	
Internal Standards		% Rec	% Rec	QC Limits	
13C-2,3,7,8-TCDD	4000	94.3	91.3	40.0 - 130	
13C-1,2,3,7,8-PeCDD	4000	86.8	83.0	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	4000	88.8	87.7	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	4000	91.8	88.4	25.0 - 130	
13C-OCDD	8000	83.2	79.0	25.0 - 130	
13C-2,3,7,8-TCDF	4000	91.2	89.5	40.0 - 130	
13C-1,2,3,7,8-PeCDF	4000	92.4	86.9	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	4000	88.7	91.3	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	4000	81.7	80.7	25.0 - 130	
13C-OCDF	8000	97.5	93.2	25.0 - 130	
Cleanup Surrogate					
13C-1,2,3,7,8,9-HxCDF	4000	104	98.0	40.0 - 130	
Pre Spike Surrogate		% Rec	% Rec	QC Limits	
37Cl-2,3,7,8-TCDD	4000	92.2	95.6	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	4000	104	105	70.0 - 130	
13C-2,3,4,7,8-PeCDF	4000	71.8	74.6	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	4000	102	105	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	4000	115	117	70.0 - 130	

Analyst: JS

Date: 12/17/08

Reviewed By: DN

Date: 12/17/08

EPA Method TO-9 PCDD/F



FAL ID: 5234-001-SA
Client ID: OFF02-120808BS
Matrix: PUF
Batch No: X1594

Date Extracted: 12-12-2008
Date Received: 12-11-2008
Amount: 1.00 sample

ICal: AIRFAL3-8-29-08
GC Column: DB5
Units: pg/sample

Acquired: 12-16-2008
WHO TEQ: 0.00

Compound	Conc	DL	Qual	WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.02		-	0.779				
1,2,3,7,8-PeCDD	ND	0.905		-	0.866				
1,2,3,4,7,8-HxCDD	ND	1.87		-	2.25				
1,2,3,6,7,8-HxCDD	ND	1.97		-	2.20	Total TCDD	ND	1.02	
1,2,3,7,8,9-HxCDD	ND	1.86		-	2.18	Total PeCDD	ND	0.905	
1,2,3,4,6,7,8-HpCDD	ND	1.32		-	2.71	Total HxCDD	ND	1.97	
OCDD	ND	3.28		-	5.66	Total HpCDD	ND	1.32	
2,3,7,8-TCDF	ND	1.14		-	0.744				
1,2,3,7,8-PeCDF	ND	1.59		-	0.941				
2,3,4,7,8-PeCDF	ND	1.68		-	0.982				
1,2,3,4,7,8-HxCDF	ND	1.09		-	1.47				
1,2,3,6,7,8-HxCDF	ND	1.05		-	1.31				
2,3,4,6,7,8-HxCDF	ND	1.18		-	1.51				
1,2,3,7,8,9-HxCDF	ND	1.40		-	1.85	Total TCDF	ND	1.14	
1,2,3,4,6,7,8-HpCDF	ND	0.537		-	1.12	Total PeCDF	ND	1.68	
1,2,3,4,7,8,9-HpCDF	ND	0.702		-	1.53	Total HxCDF	ND	1.40	
OCDF	ND	2.65		-	4.19	Total HpCDF	ND	0.702	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	98.3	40.0 - 130	
13C-1,2,3,7,8-PeCDD	93.0	40.0 - 130	
13C-1,2,3,6,7,8-HxCDD	93.6	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	96.9	25.0 - 130	
13C-OCDD	96.6	25.0 - 130	
13C-2,3,7,8-TCDF	98.3	40.0 - 130	
13C-1,2,3,7,8-PeCDF	102	40.0 - 130	
13C-1,2,3,6,7,8-HxCDF	93.1	40.0 - 130	
13C-1,2,3,4,6,7,8-HpCDF	92.8	25.0 - 130	
13C-OCDF	109	25.0 - 130	
Cleanup Surrogate			
13C-1,2,3,7,8,9-HxCDF	106	40.0 - 130	
Pre-Spike Surrogate			
37Cl-2,3,7,8-TCDD	99.7	70.0 - 130	
13C-1,2,3,4,7,8-HxCDD	107	70.0 - 130	
13C-2,3,4,7,8-PeCDF	72.5	70.0 - 130	
13C-1,2,3,4,7,8-HxCDF	109	70.0 - 130	
13C-1,2,3,4,7,8,9-HpCDF	115	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: 12/17/08

Reviewed By: BPJ

Date: 12/17/08



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.

5234
2°C

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

Page 1 of 1

Contact Person Kelly Buettner Company Air Toxics Ltd. Address 180-B Blue Ravine Zip 95630 Phone 916-605-3356 FAX 916-985-1020		City Folsom State CA		Project Information: P.O. # 0812273C 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		Final					
Lab I.D.	Field Sample I.D.	Canister I.D.				Initial	Final	Receipt	Final (psi)				
	OFF02-120808BS		12/8/08 0100	TO-9		"Hg							
						"Hg							
						"Hg							
						"Hg							
						"Hg							
						"Hg							
						"Hg							
						"Hg							
						"Hg							
						"Hg							
						"Hg							
						"Hg							
Relinquished By: (Signature) Date/Time Vera 12/11/08 10:10		Received By: (Signature) Date/Time Kelly 12/11/08 10:10		Notes: K.buettner@airtoxics.com									
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time											
Relinquished By: (Signature) Date/Time		Received By: (Signature) Date/Time											
Shipper Name		Air Bill #		Opened By		Temp ©		Condition		Custody Seals		Work Order #	
Lab Use Only										Yes No None			

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **5234**

Client:	Air Toxics
Client Project ID:	103PO333
Date Received:	12/11/2008
Time Received:	10:10 am
Received By:	KZ
Logged In By:	DV
# of Samples Received:	1
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)	2
Cooling Method	Blue Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	No
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	12/15/2008
Adequate Sample Volume	Yes
Anomalies or additional comments:	

Contact Person Kelly Buettner Company Air Toxics Ltd. Address 180-B Blue Ravine Zip 95630 Phone 916-605-3356 City Folsom State CA FAX 916-985-1020		Project Information: P.O. # 0812273C 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 I.D.	Field Sample I.D.	Canister I.D.	Date & Time	Analysis Requested	Canister Pressure/Vacuum		
	OFF02-120808BS		12/8/08 0100	TO-9	Initial	Final	Receipt Final (psi)
					"Hg		
					"Hq		

0812273-02A C/
 Not Found
 Frontier Analytical Laboratory
 5234-001-SA
 Client ID: OFF02-120808BS
 Storage: R2
 (01 of 01)

709A
 12/08/08 1000

PROJECT REQUEST SHEET

Project #: 5234 Sample #: 1 Client Manager: DV
Client: Air Toxics Hold Time: 12/15/2008
Matrix: PUF / Filter Extraction Batch: 1594 Due Date: 01/05/2009
Method: EPA TO-9 D/F Storage: R2
SOP: SOPs: EP6A Rev.4 IP6A Rev.2

COMMENTS/INSTRUCTIONS:

Results: 5234

Instrument:

DB5 FAL-3

DB225 _____

DB1 _____

Other _____

Extract/s located in box: "Infinite Stapler"

Standards: 5225

Cartridge Request Form

Delivery Date Requested: 12/5/2008

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: Mr. Dick Laubinger
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: _____
☒ PUF Cartridges.....Quantity: 4
☐ PUF/XAD Cartridges.....Quantity: _____

Number/Size/type of filters Required: 5 quartz fiber 102mm filters (Lot: 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: 102808

Pre-Sampling Spike Amount/ID: 25µl Air-PSS (061228A) (12)

Preparation Chemist Initials: DAJ

Preparation/Spike Date: 12/4/08

Spike Witness Initials: GL

Special Instructions: _____

Delivery Information

Date Shipped: 12-4-08

Carrier: Fed-EX

Service Requested: Std overnight

Air Bill Number: 7961598/9283

14165

EXTRACTION SHEET

Project #: 5234 Extraction Date: 2008-12-12 Extraction Chemist: DV

Method/Analysis: EPA TO-9 D/F

Procedure: SOX Solvent: Toluene

[illegible]

AX-21 Charcoal Cleaned	102708	Acetone	48169	Acid Alumina	14003MH	Hexane	48204
Hydrochloric Acid	B08505	Methanol	082664	Methylene Chloride (DCM)	48291	Silica Gel	TA1493434
Sodium Hydroxide	8120	Sodium Sulfate	48094820	Sulfuric Acid	084858	Tetradecane	072385
Toluene	082576	Water	48191	C-18 Empore Discs	320437	Cyclohexane	48149

Comments: *25ml A: r-PS5(061228A)_{v3} added on 12-12-08 by DN. witness: GL

$\frac{dP}{dt} = \frac{dP}{d\tau} \cdot \frac{d\tau}{dt}$

Method/Analysis: EPA TO-9 D/F

Splits:

Comments:

GC Column: DB5

Amount: 1.000

NATO 1989 Tox: 0 00

WHO 1998 Tox: 0.00

WHO 1998 Tox:

0.00

DL

1,2,3,4,6,7,8-HpCDD	*	* n NotFnd	1.16	*	2.50	433	2.05
OCDD	*	* n NotFnd	1.24	*	2.50	541	4.81

1,2,3,4,6,7,8-HpCDF	*	* n NotFnd	1.36	*	2.50	348	0.924
1,2,3,4,7,8,9-HpCDF	*	* n NotFnd	1.04	*	2.50	348	1.21
OCDF	*	* n NotFnd	0.46	*	2.50	550	3.90

13C-1,2,3,4,6,7,8-HpCDD	2.06e+07	1.09	y	44:09	0.94	2520	63.0
13C-OCDD	2.36e+07	0.92	y	49:43	0.65	4200	52.5

13C-1,2,3,4,6,7,8-HpCDF	2.04e+07	0.43	y	42:15	1.02	2310	57.7
13C-OCDF	8.17e+07	0.94	y	50:06	1.83	5140	64.2

13C-1,2,3,7,8,9-HxCDF	4.82e+07	0.54	y	39:44	1.99	2800	/	69.9
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13C-1,2,3,4,7,8,9-HpCDF	1.91e+07	0.43	y	45:05	0.81	4600	115
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13C-1,2,3,4-TCDF	7.75e+07	0.83 y	25:31	-	136
13C-1,2,3,7,8,9-HxCDD	3.47e+07	1.25 y	39:10	-	145

Fac	Noise	DL	#Hom
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Total Tetra-Dioxins	*	NotFnd	0.93	*	2.50	1130	1.73	0
Total Penta-Dioxins	*	NotFnd	1.48	*	2.50	353	1.18	0
Total Hexa-Dioxins	*	NotFnd	1.29	*	2.50	681	3.03	0
Total Hepta-Dioxins	*	NotFnd	1.16	*	2.50	433	2.05	0

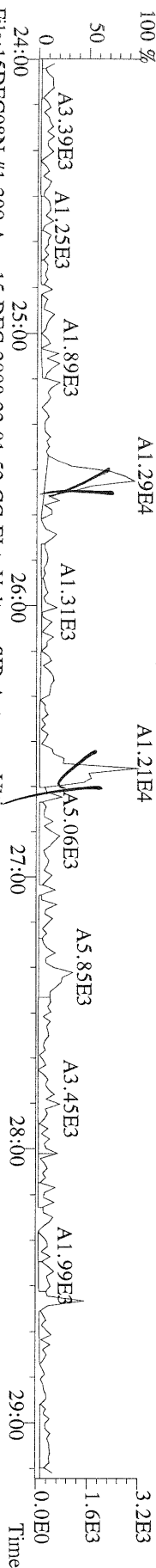
1st Fn. Tot Penta-Furans	*	NotFnd	0.78	*	2.50	815	2.03	0	PeCDF
Total Penta-Furans	*	NotFnd	0.78	*	2.50	815	2.03	0	*
Total Hexa-Furans	*	NotFnd	0.95	*	2.50	553	1.53	0	
Total Hepta-Furans	*	NotFnd	1.20	*	2.50	348	1.21	0	

Analyst:

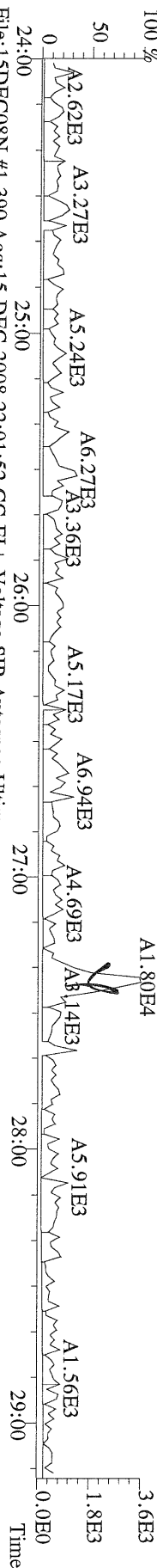
Date:

000013 of 000211

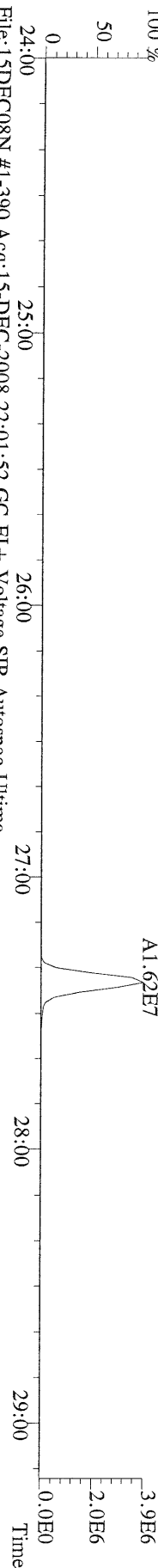
File:15DEC08N #1-390 Acq:15-DEC-2008 22:01:52 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



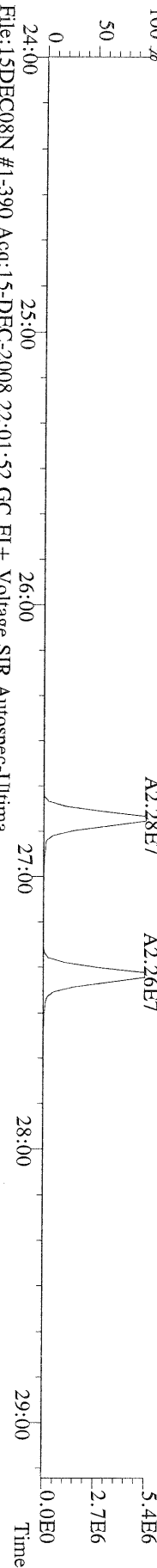
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321.8936 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



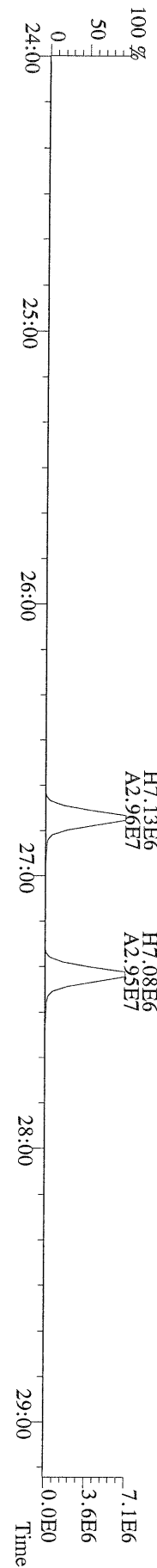
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327.8847 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



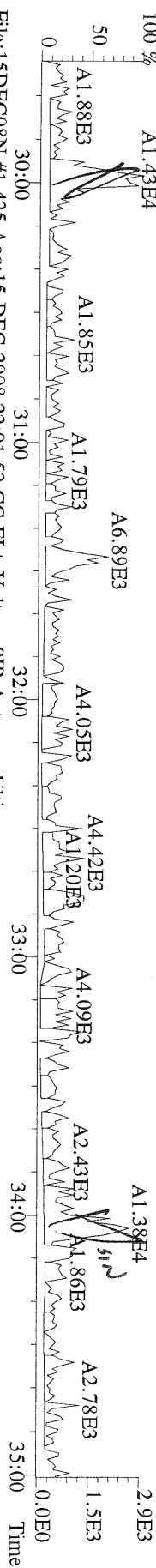
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331.9368 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



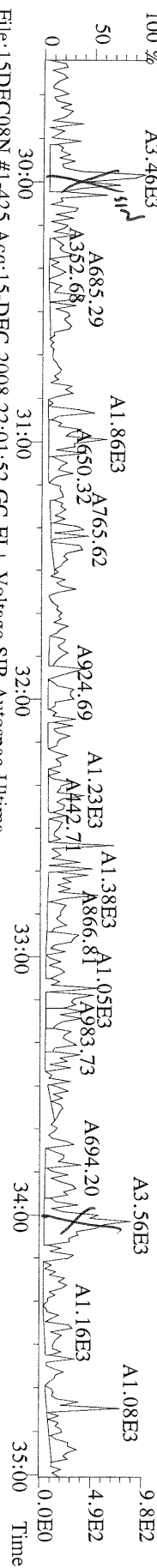
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333.9339 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



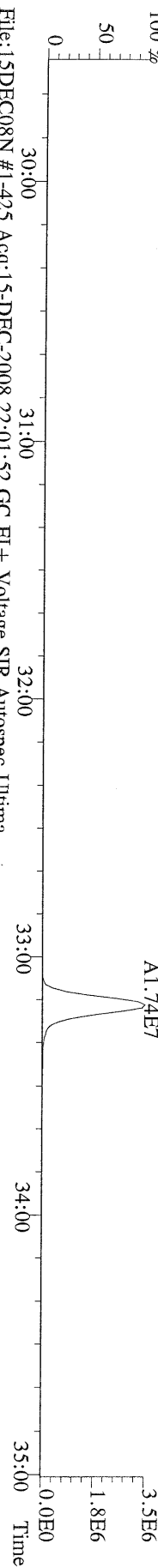
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355.8546 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



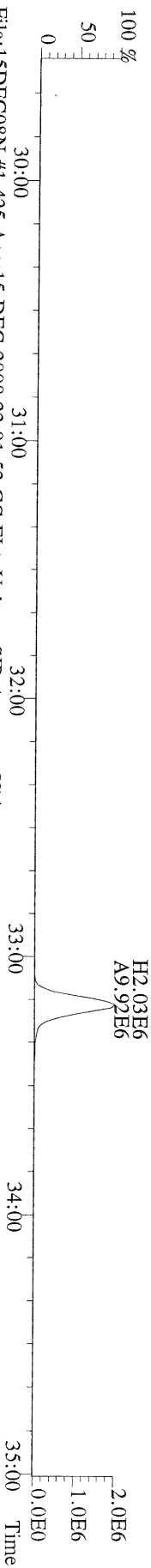
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357.8517 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



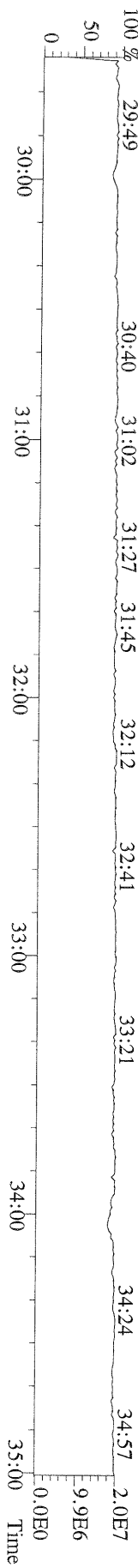
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367.8949 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



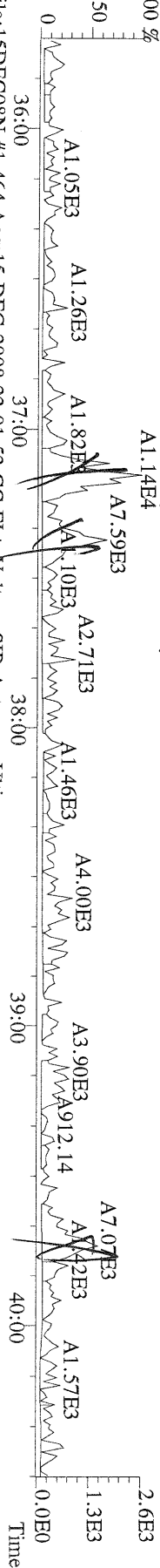
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369.8919 S:7 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



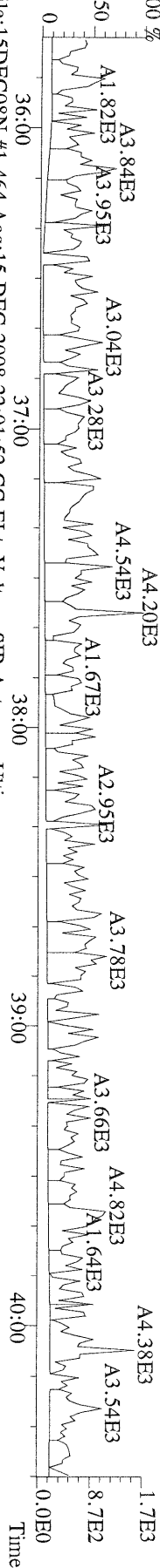
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366.9792 S:7 F:2 Exp:PCDD
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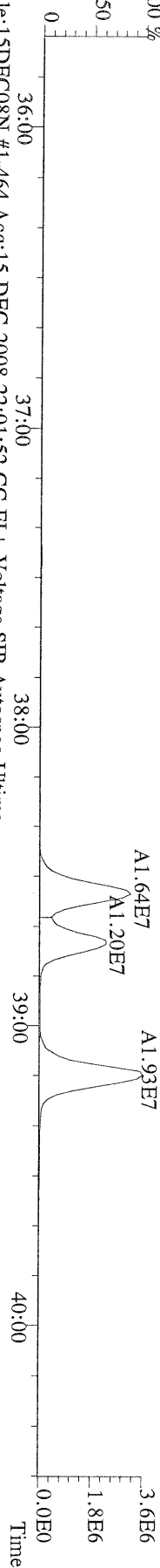
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389.8156 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



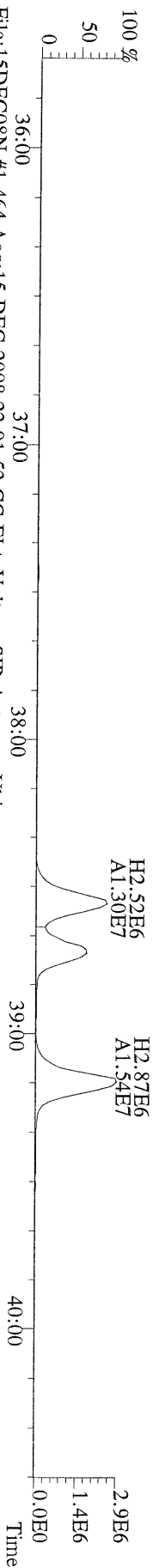
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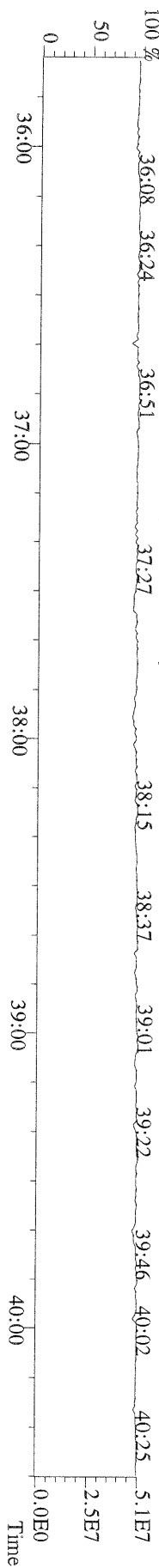
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401.8559 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



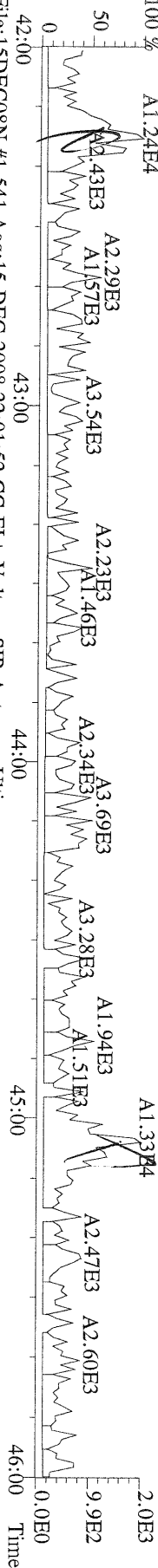
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403.8530 S:7 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



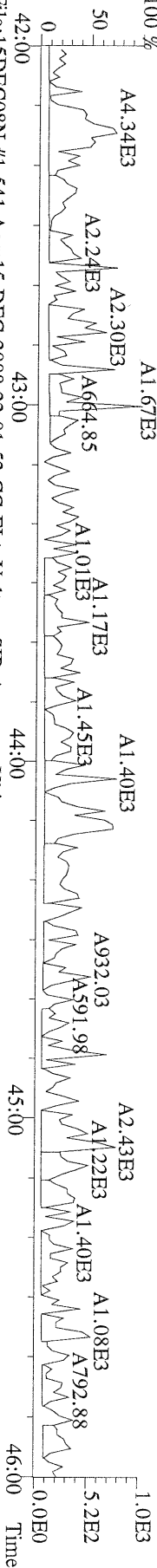
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380.9760 S:7 F:3 Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



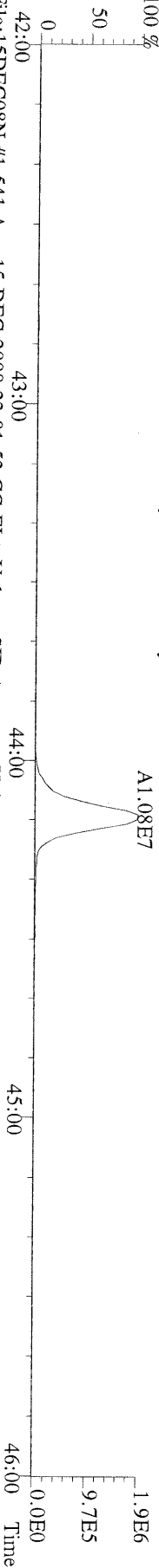
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423.7767 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory
100 % A1.24E4



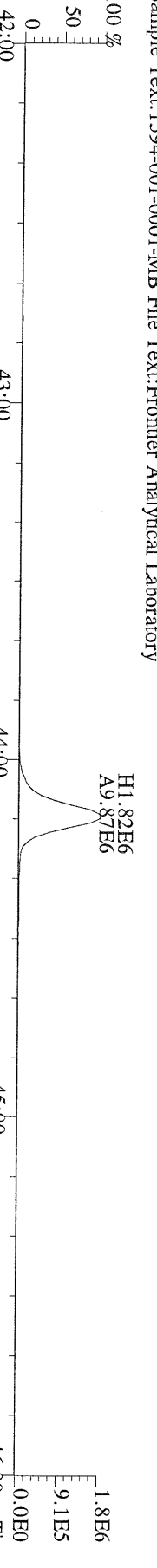
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425.7737 S:7 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory
100 % A1.67E3



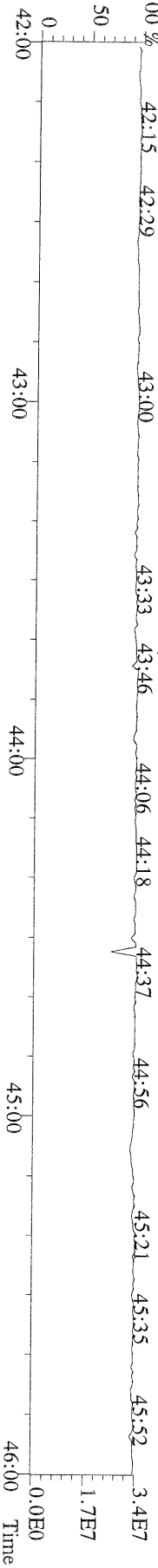
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Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory
100 % A1.08E7



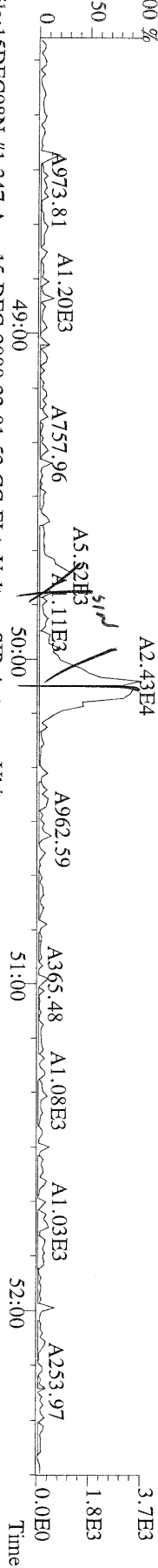
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Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



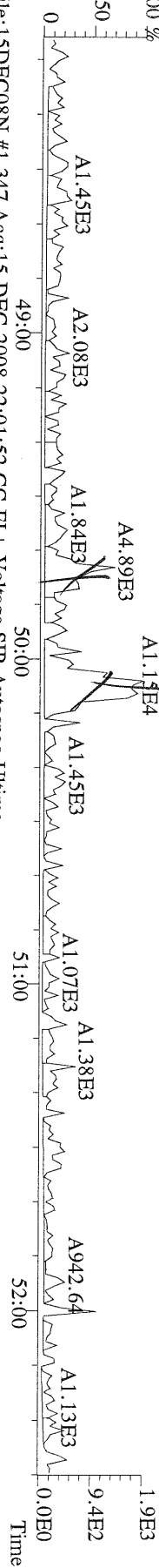
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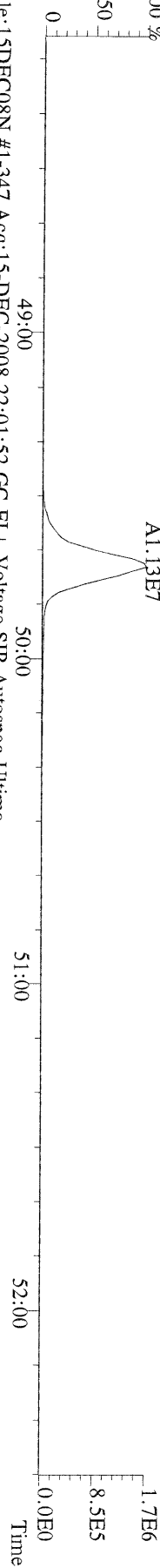
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457.7377 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



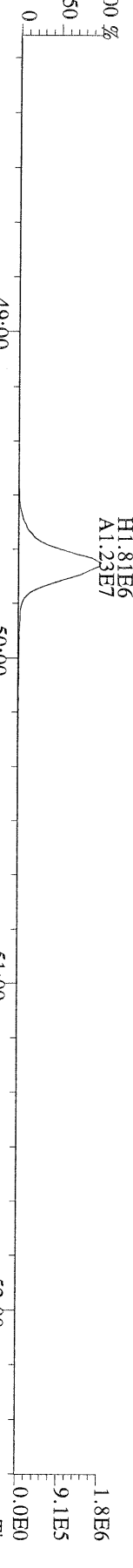
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459.7348 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



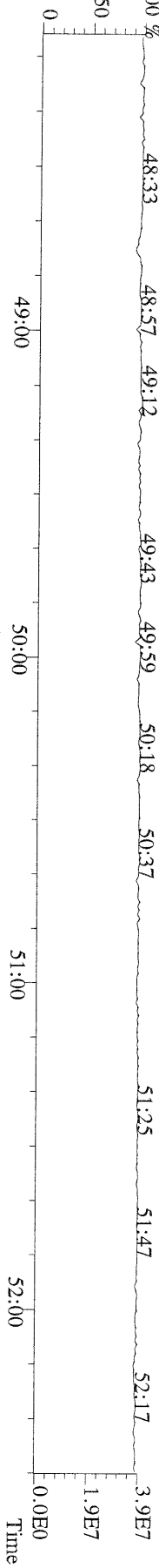
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469.7780 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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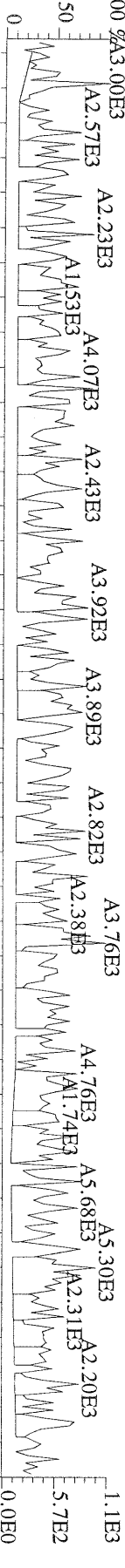
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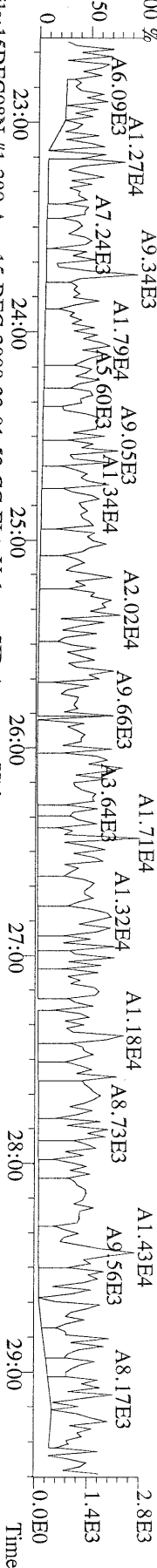
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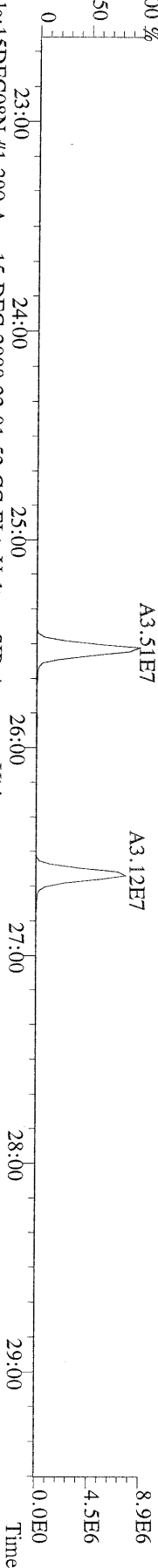
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303.9016 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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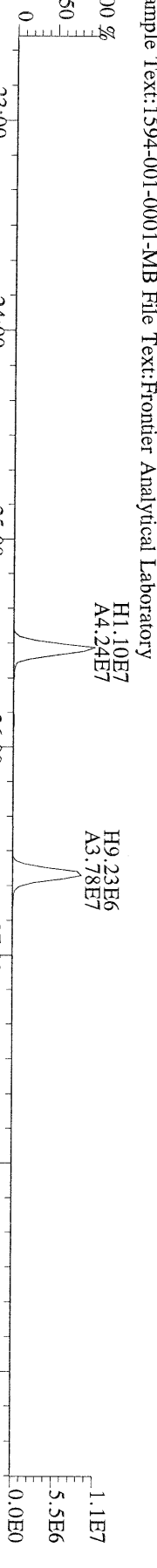
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305.8987 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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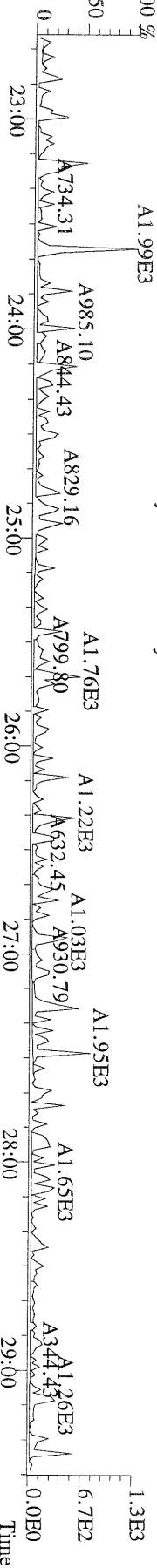
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315.9419 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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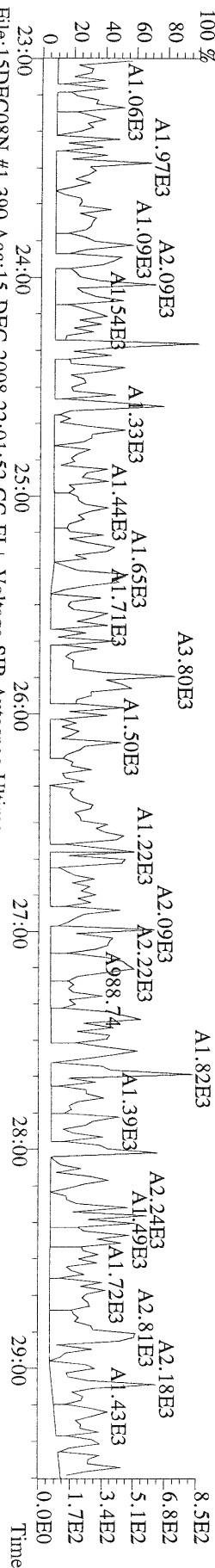
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317.9389 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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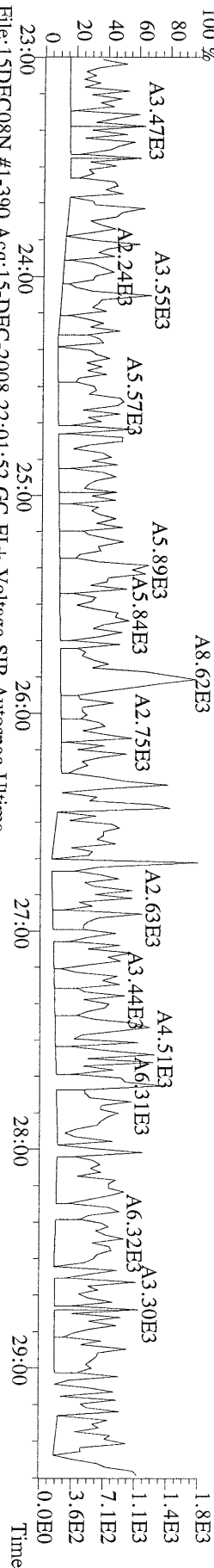
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375.8364 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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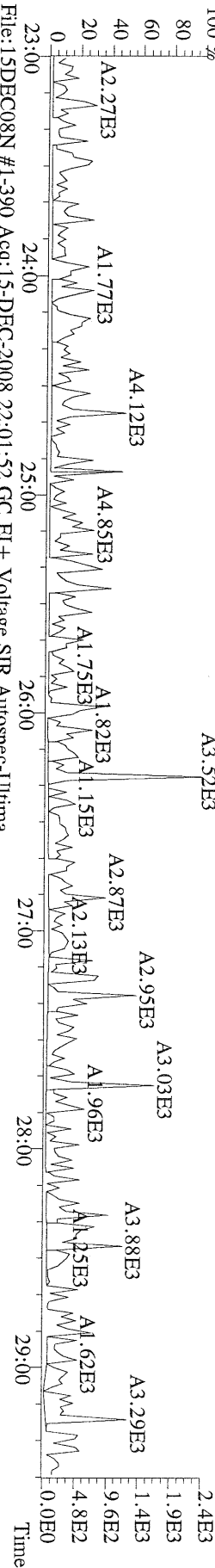
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339.8597 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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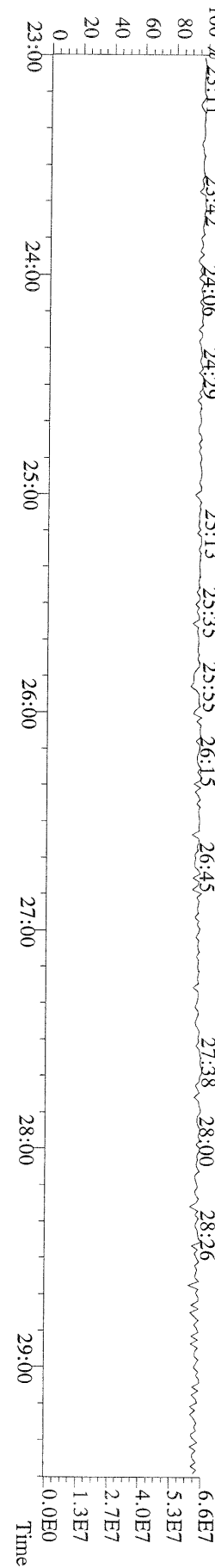
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341.8568 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



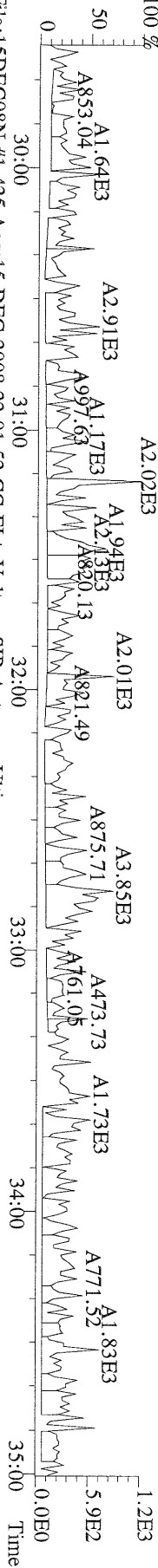
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409.7974 S:7 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



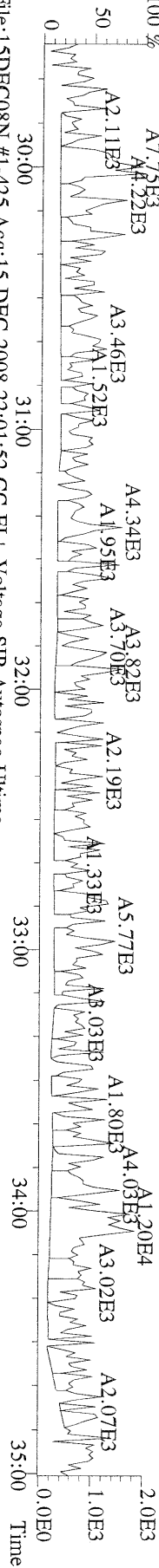
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330.9792 S:7 Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



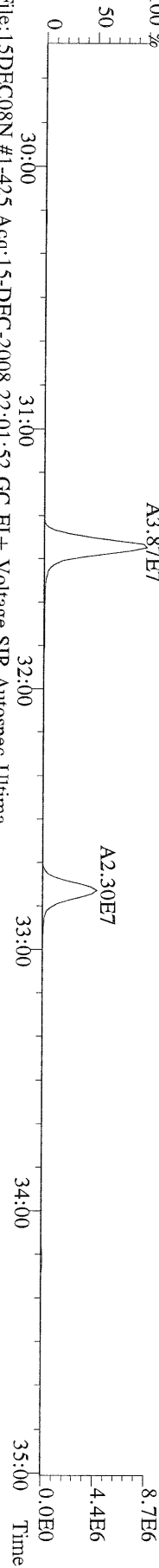
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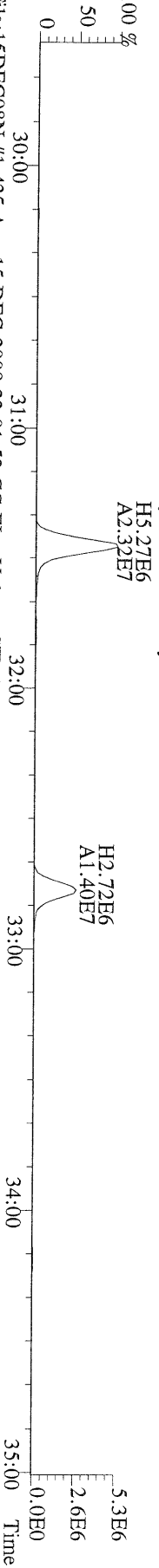
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Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



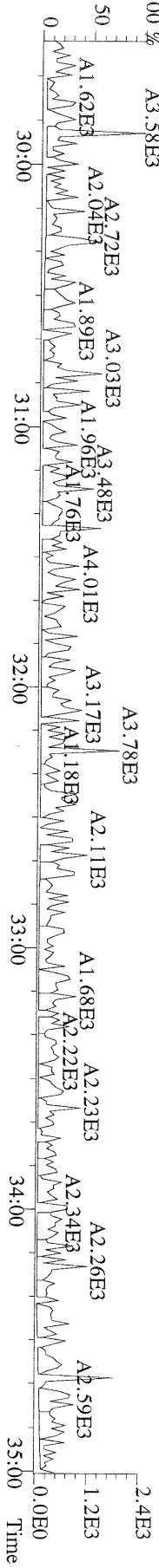
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Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



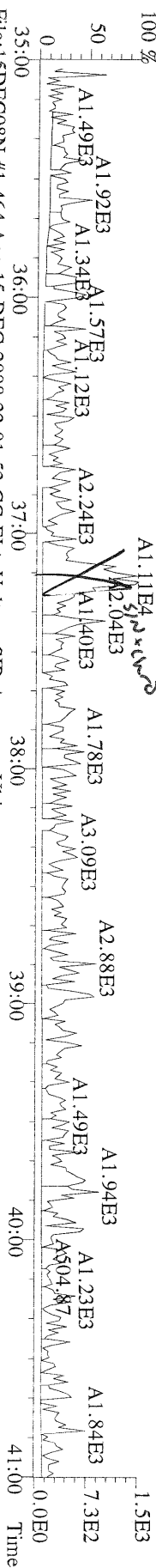
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353.8970 S:7 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
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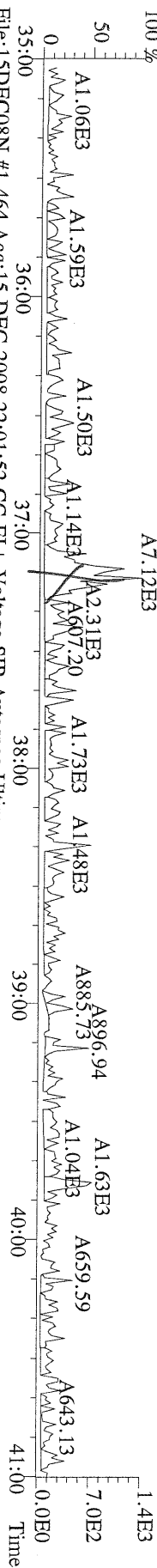
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Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



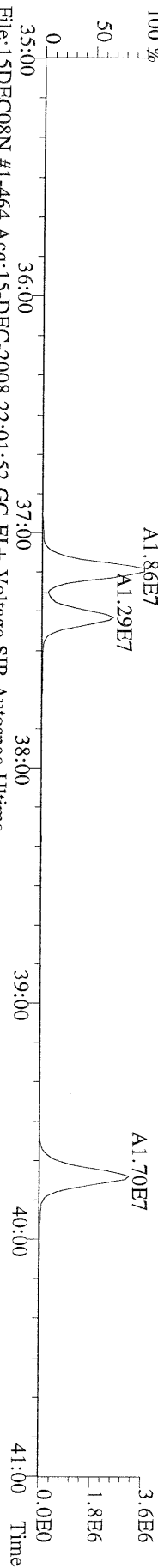
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373.8207 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



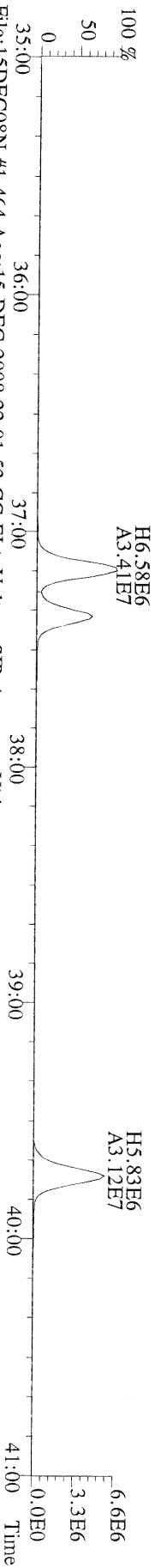
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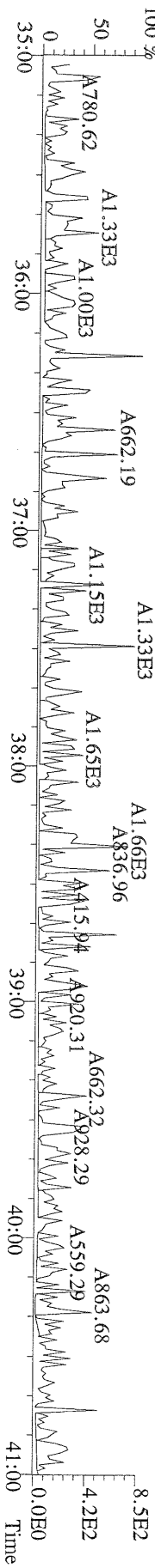
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383.8639 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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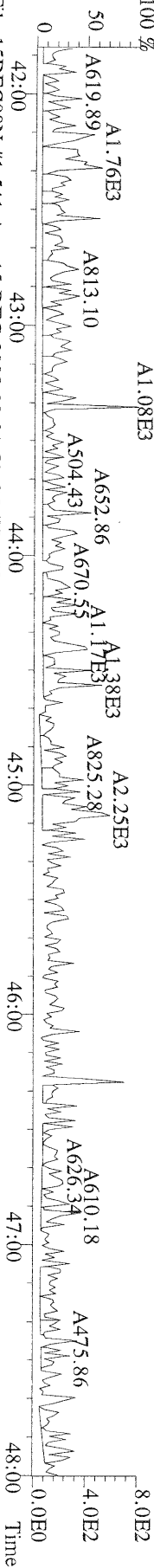
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385.8610 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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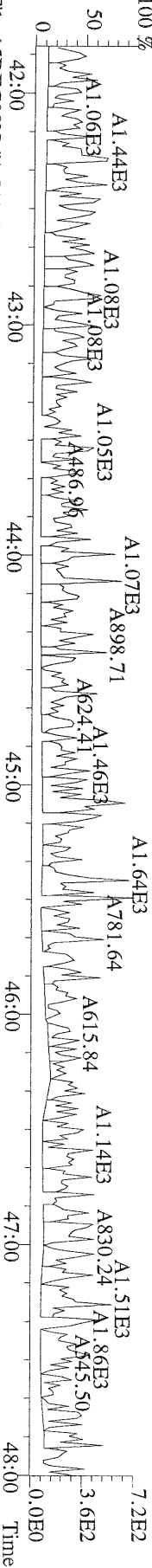
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445.7555 S:7 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



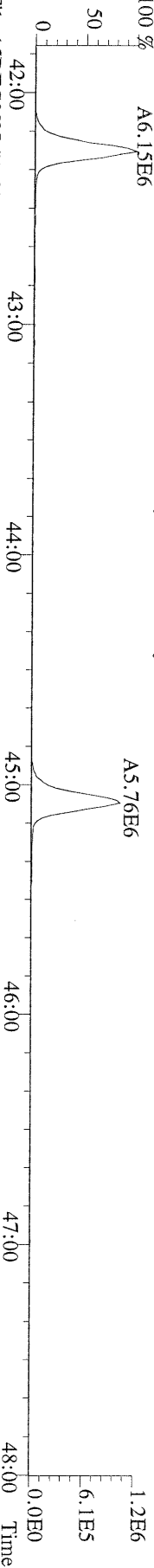
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Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



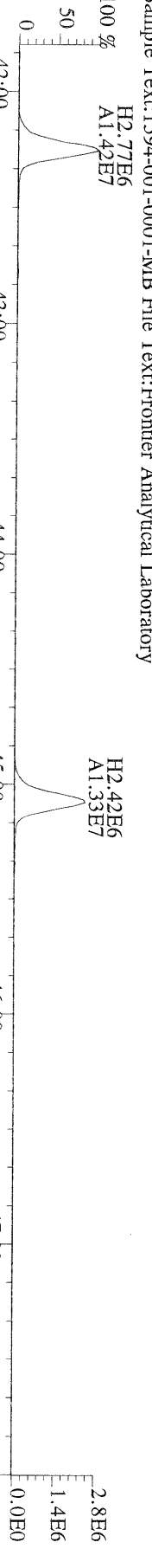
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409.7788 S:7 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



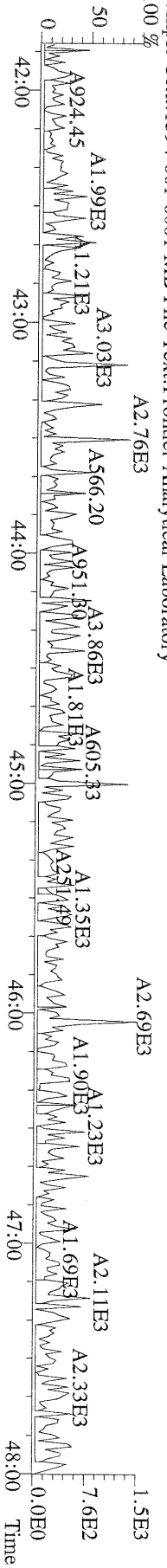
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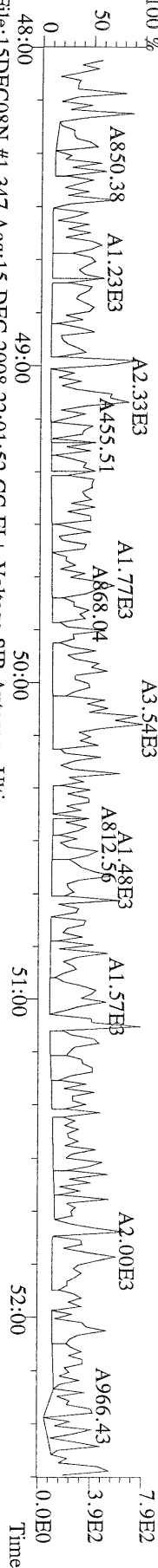
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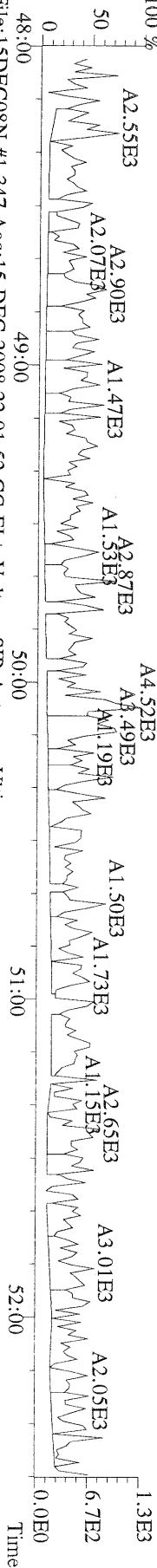
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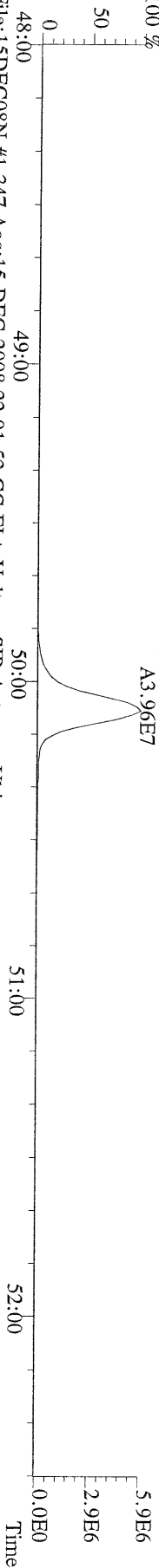
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441.7428 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
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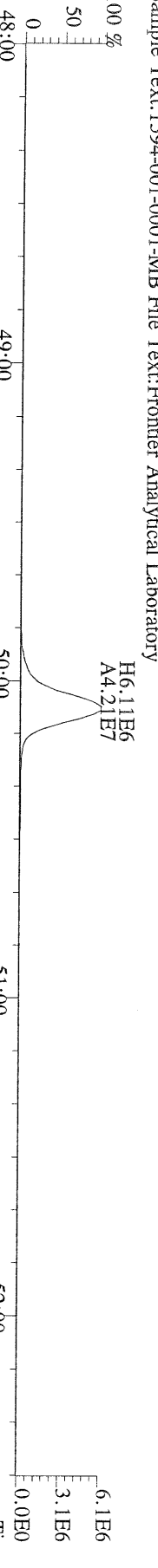
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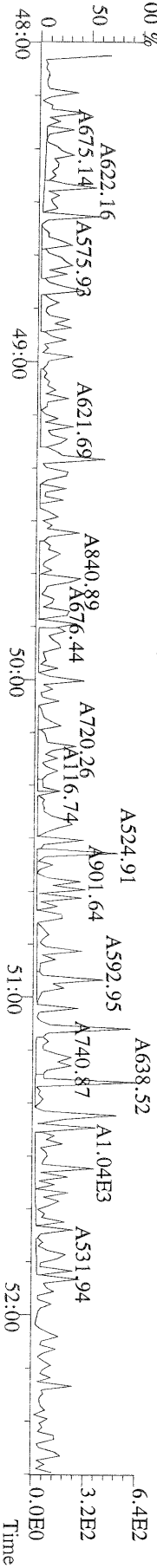
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453.7831 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



File:15DEC08N #1-347 Acq:15-DEC-2008 22:01:52 GC EI + Voltage SIR Autospec-Ultima
455.7801 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



File:15DEC08N #1-347 Acq:15-DEC-2008 22:01:52 GC EI + Voltage SIR Autospec-Ultima
513.6775 S:7 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:1594-001-0001-MB File Text:Frontier Analytical Laboratory



1594-001-0001-LC1

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

OPR Data Filename: 15DEC08N Sam:4

Ext. Date: 12/12/08 Shift: Day

Analysis Date: 15-DEC-08 19:16:08

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	3.72	3.00 - 7.00 ✓
1,2,3,7,8-PeCDD	25.0	21.5	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDD	25.0	23.5	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDD	25.0	22.4	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDD	25.0	22.7	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDD	25.0	24.8	15.0 - 35.0 ✓
OCDD	50.0	45.0	30.0 - 70.0 ✓
2,3,7,8-TCDF	5.00	4.75	3.00 - 7.00 ✓
1,2,3,7,8-PeCDF	25.0	22.3	15.0 - 35.0 ✓
2,3,4,7,8-PeCDF	25.0	21.9	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDF	25.0	21.5	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDF	25.0	20.9	15.0 - 35.0 ✓
2,3,4,6,7,8-HxCDF	25.0	21.3	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDF	25.0	23.9	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDF	25.0	23.1	15.0 - 35.0 ✓
1,2,3,4,7,8,9-HpCDF	25.0	27.2	15.0 - 35.0 ✓
OCDF	50.0	43.7	30.0 - 70.0 ✓

Analyst: 

Date: 12/16/08

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 OPR Data Filename: 15DEC08N Sam:4
Ext. Date: 12/12/08 Shift: Day Analysis Date: 15-DEC-08 19:16:08

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	94.3	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDD	100	86.8	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	100	88.8	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	91.8	40.0 - 130 ✓
13C-OCDD	200	166	50.0 - 260 ✓
13C-2,3,7,8-TCDF	100	91.2	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	100	92.4	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	100	88.7	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	81.7	40.0 - 130 ✓
13C-OCDF	200	195	50.0 - 260 ✓
CLEANUP STANDARD			
13C-1,2,3,7,8,9-HxCDF	100	104	40.0 - 130 ✓
PRE-SPIKE STANDARD			
37Cl-2,3,7,8-TCDD	100	92.2	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDD	100	104	70.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	100	71.8	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	100	102	70.0 - 130 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	115	70.0 - 130 ✓

Analyst:

Date: 12/16/08

FAL ID: 1594-001-0001-LC1 Filename: 15DEC08N Sam:4 Acquired: 15-DEC-08 19:16:08 ICal: AIRFAL3-8-29-08
Client ID: LCS1 ConCal: ST121508N1 EndCal: ST121508N2
Results: 1589 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 43

WHO 1998 Tox: 54.1

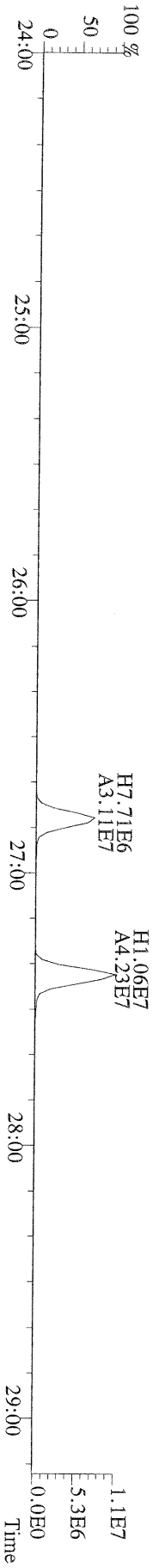
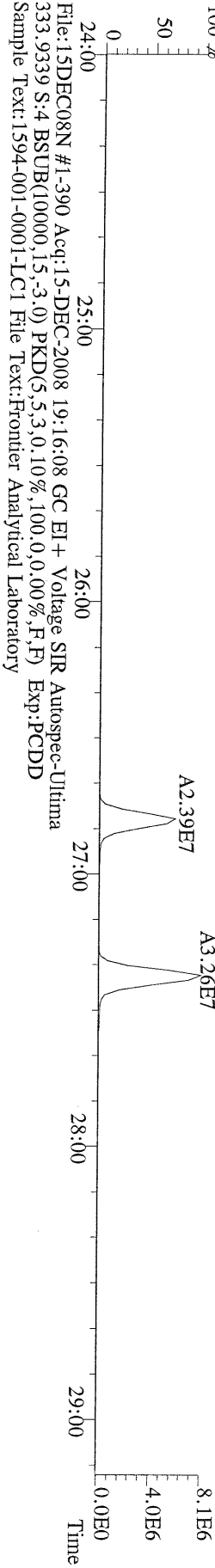
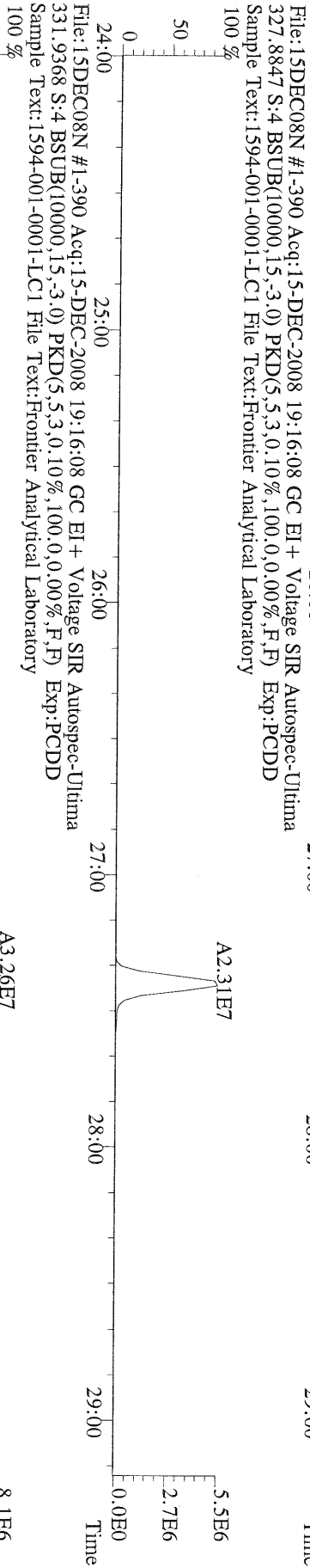
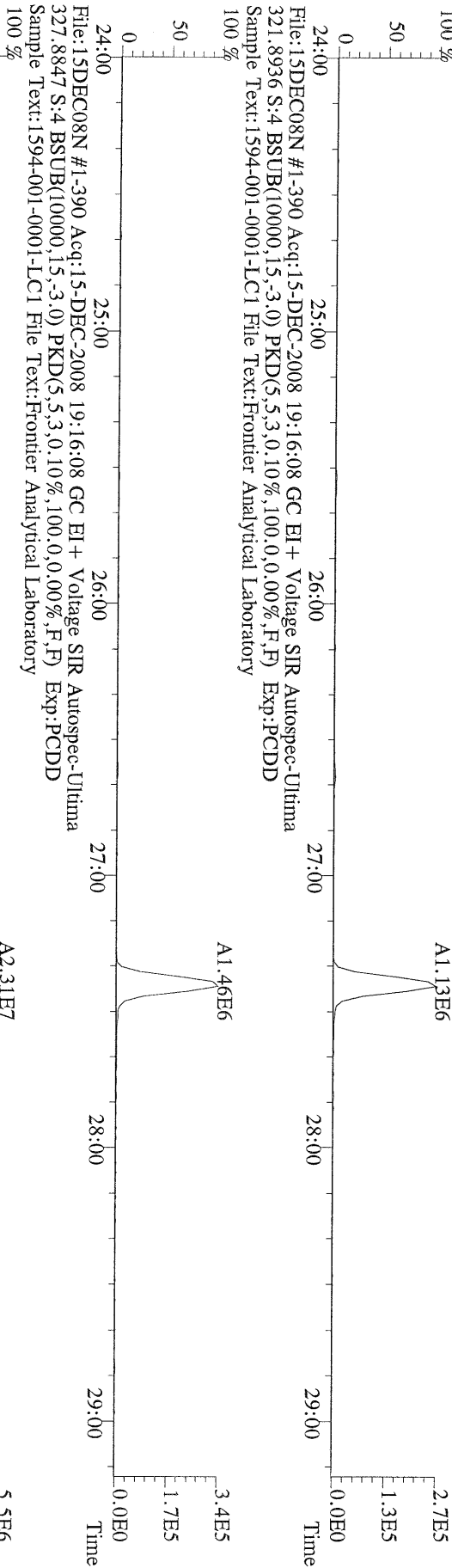
ise DI

	Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
	2,3,7,8-TCDD	2.59e+06	0.78 y	27:25	0.93	3.72		2.50	-	*	
	1,2,3,7,8-PeCDD	1.28e+07	1.61 y	33:14	1.48	21.5		2.50	-	*	
	1,2,3,4,7,8-HxCDD	1.02e+07	1.30 y	38:35	1.32	23.5		2.50	-	*	
	1,2,3,6,7,8-HxCDD	9.18e+06	1.31 y	38:45	1.25	22.4		2.50	-	*	
	1,2,3,7,8,9-HxCDD	9.86e+06	1.29 y	39:12	1.32	22.7		2.50	-	*	
	1,2,3,4,6,7,8-HpCDD	9.50e+06	1.04 y	44:12	1.16	24.8		2.50	-	*	
	OCDD	1.15e+07	0.90 y	49:46	1.24	45.0		2.50	-	*	
	2,3,7,8-TCDF	4.80e+06	0.69 y	26:39	1.00	4.75		2.50	-	*	
	1,2,3,7,8-PeCDF	1.66e+07	1.54 y	31:29	0.81	22.3		2.50	-	*	
	2,3,4,7,8-PeCDF	1.54e+07	1.50 y	32:49	0.76	21.9		2.50	-	*	
	1,2,3,4,7,8-HxCDF	1.20e+07	1.25 y	37:12	1.02	21.5		2.50	-	*	
	1,2,3,6,7,8-HxCDF	1.20e+07	1.25 y	37:23	1.05	20.9		2.50	-	*	
	2,3,4,6,7,8-HxCDF	1.09e+07	1.26 y	38:21	0.93	21.3		2.50	-	*	
	1,2,3,7,8,9-HxCDF	1.03e+07	1.26 y	39:47	0.79	23.9		2.50	-	*	
	1,2,3,4,6,7,8-HpCDF	9.96e+06	1.03 y	42:18	1.36	23.1		2.50	-	*	
	1,2,3,4,7,8,9-HpCDF	8.97e+06	1.02 y	45:07	1.04	27.2		2.50	-	*	
	OCDF	1.38e+07	0.89 y	50:08	0.46	43.7		2.50	-	*	
	13C-2,3,7,8-TCDD	7.49e+07	0.77 y	27:22	1.44	94.3					Rec
	13C-1,2,3,7,8-PeCDD	4.02e+07	1.76 y	33:12	0.84	86.8					94.3
	13C-1,2,3,6,7,8-HxCDD	3.29e+07	1.26 y	38:44	0.97	88.8					86.8
	13C-1,2,3,4,6,7,8-HpCDD	3.31e+07	1.09 y	44:11	0.94	91.8					88.8
	13C-OCDD	4.12e+07	0.91 y	49:45	0.65	166					91.8
	13C-2,3,7,8-TCDF	1.01e+08	0.83 y	26:37	1.36	91.2					83.2
	13C-1,2,3,7,8-PeCDF	9.25e+07	1.66 y	31:28	1.23	92.4					91.2
	13C-1,2,3,6,7,8-HxCDF	5.48e+07	0.54 y	37:22	1.61	88.7					92.4
	13C-1,2,3,4,6,7,8-HpCDF	3.18e+07	0.43 y	42:16	1.02	81.7					88.7
	13C-OCDF	1.37e+08	0.95 y	50:07	1.83	195					81.7
	13C-1,2,3,7,8,9-HxCDF	7.89e+07	0.54 y	39:45	1.99	104					97.5
	37Cl-2,3,7,8-TCDD	2.31e+07		27:25	0.33	92.2					104
	13C-1,2,3,4,7,8-HxCDD	4.50e+07	1.28 y	38:35	1.32	104					92.2
	13C-2,3,4,7,8-PeCDF	5.40e+07	1.64 y	32:47	0.81	71.8					104
	13C-1,2,3,4,7,8-HxCDF	7.75e+07	0.55 y	37:10	1.38	102					71.8
	13C-1,2,3,4,7,8,9-HpCDF	2.98e+07	0.43 y	45:06	0.81	115					102
	13C-1,2,3,4-TCDD	5.50e+07	0.77 y	26:48	-	156					115
	13C-1,2,3,4-TCDF	8.13e+07	0.82 y	25:33	-	143					
	13C-1,2,3,7,8,9-HxCDD	3.82e+07	1.27 y	39:11	-	159					
	Total Tetra-Dioxins	2.68e+06		22:52	0.93	3.85		Fac	Noise	DL	#Hom
	Total Penta-Dioxins	1.28e+07		33:14	1.48	21.6		2.50	-	*	20
	Total Hexa-Dioxins	2.92e+07		38:35	1.29	68.6					

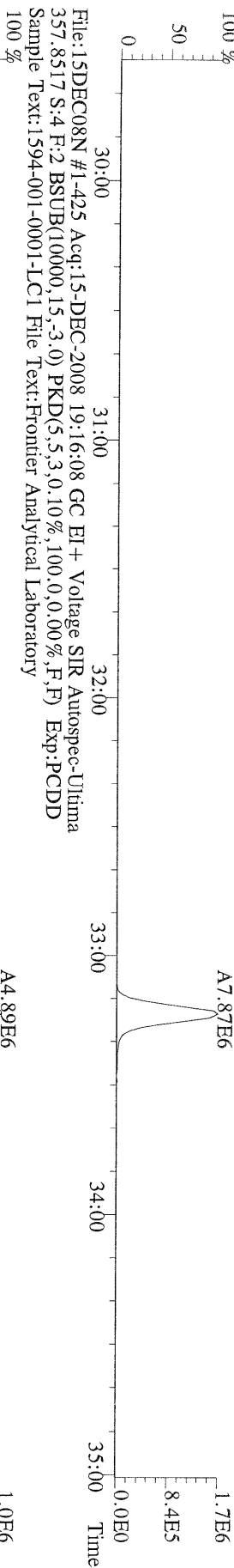
Analyst:

Date:

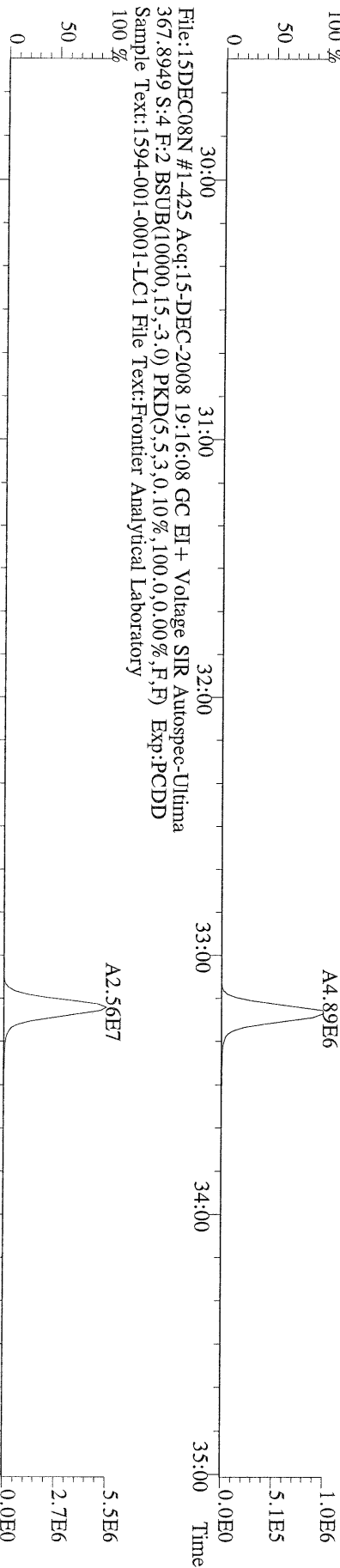
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319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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100 %



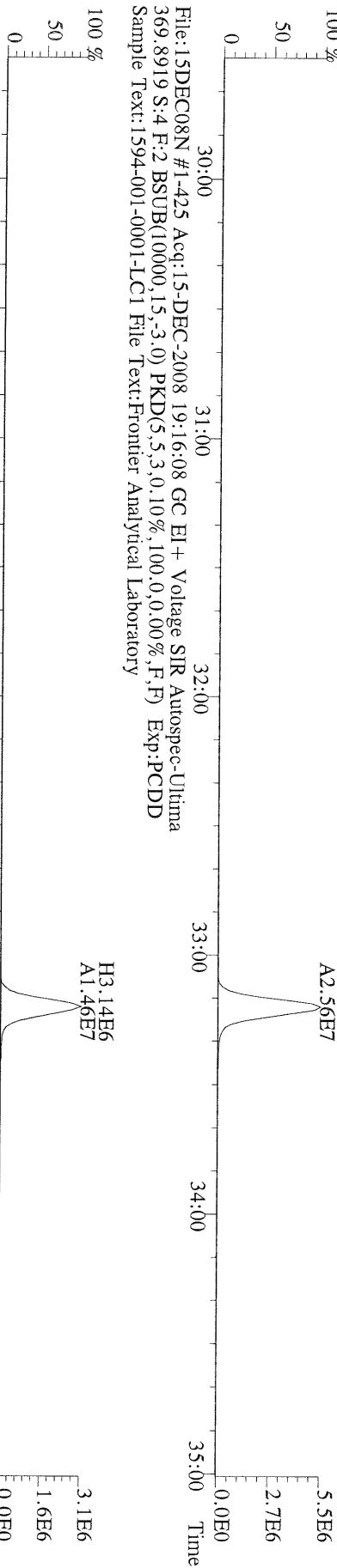
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355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



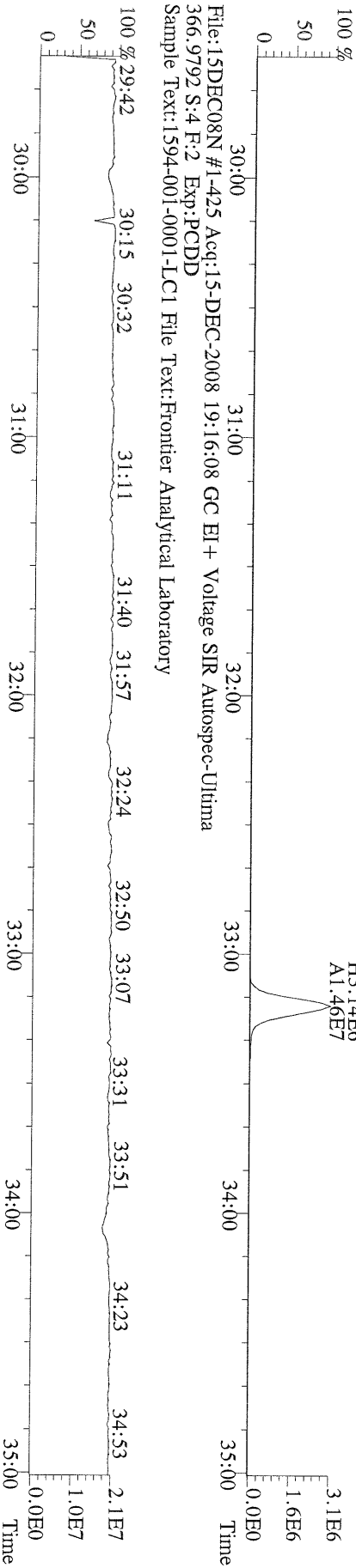
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357.8517 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



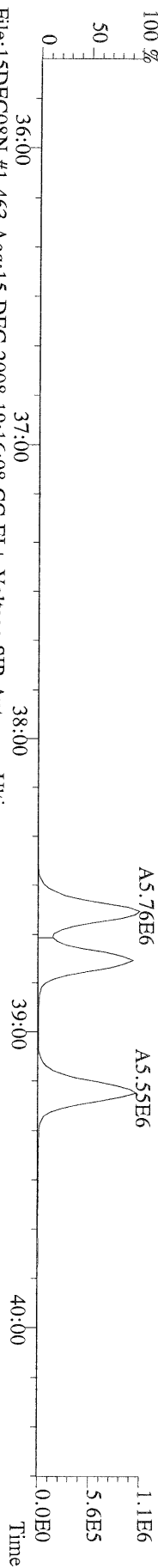
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367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



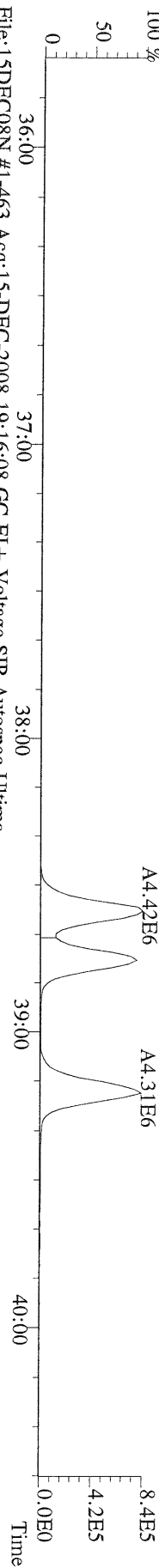
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369.8919 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



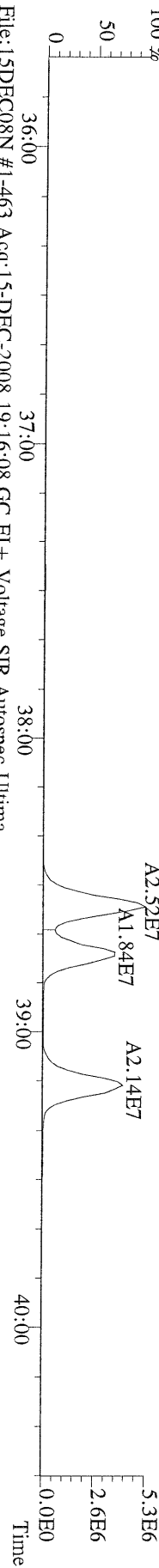
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389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



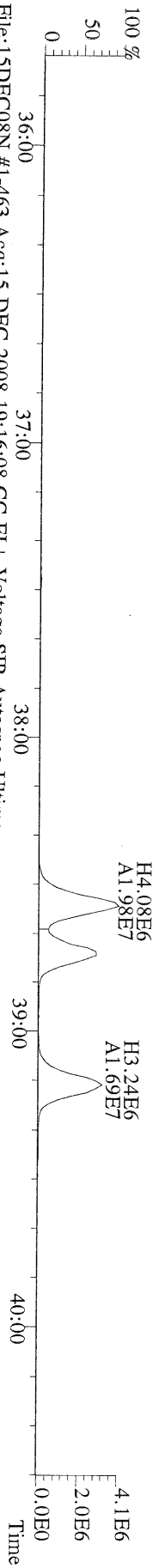
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391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



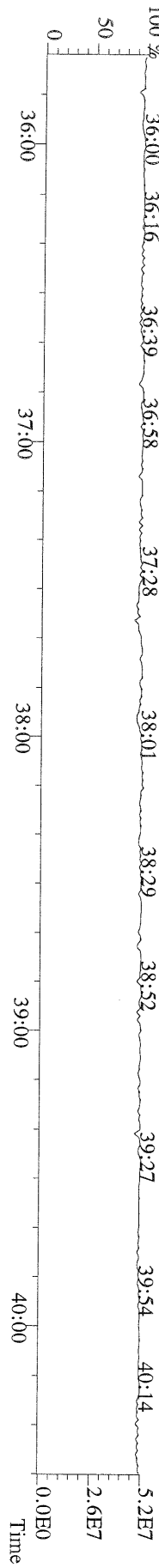
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401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



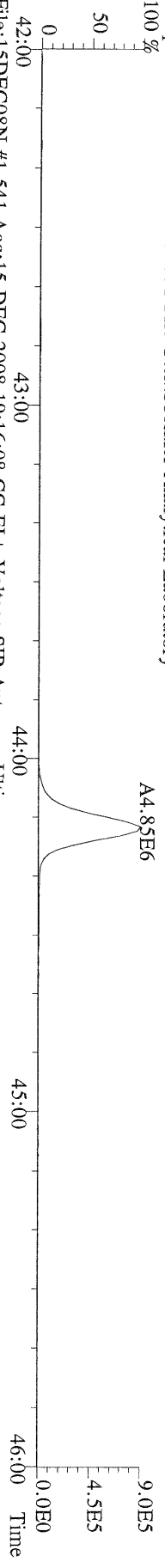
File:15DEC08N #1-463 Acq:15-DEC-2008 19:16:08 GC EI+ Voltage SIR Autospec-Ultima
403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



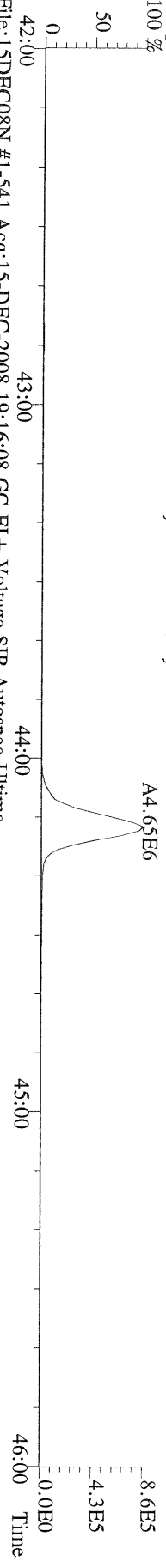
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380.9760 S:4 F:3 Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



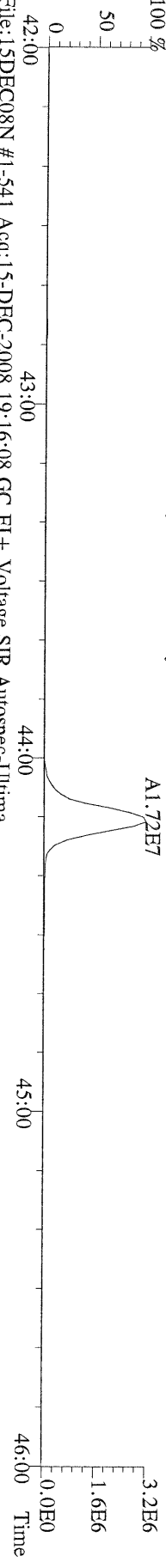
File:15DEC08N #1-541 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



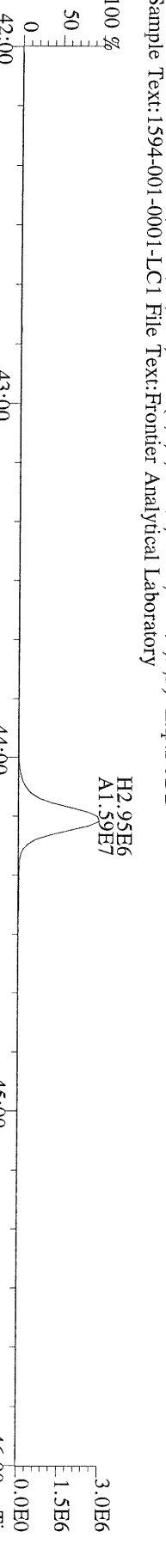
File:15DEC08N #1-541 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
425.7737 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



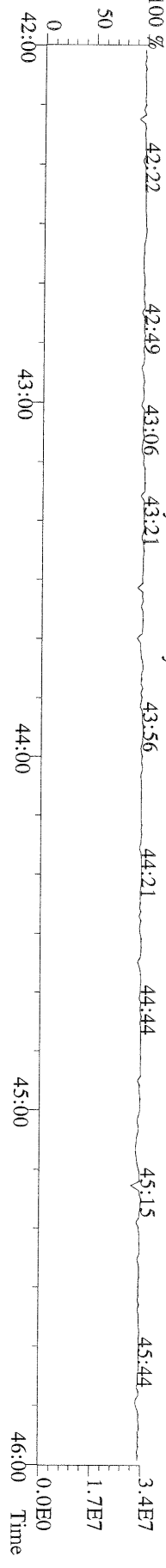
File:15DEC08N #1-541 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



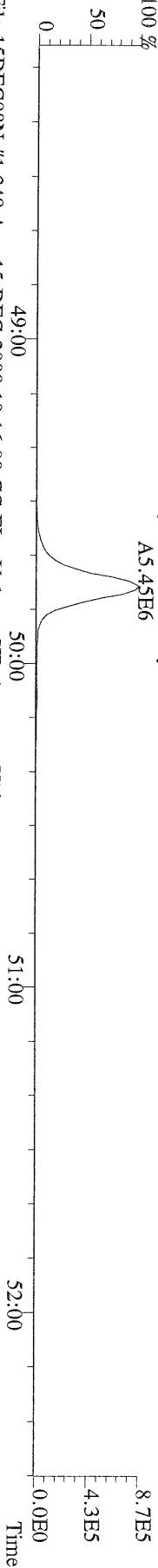
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437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



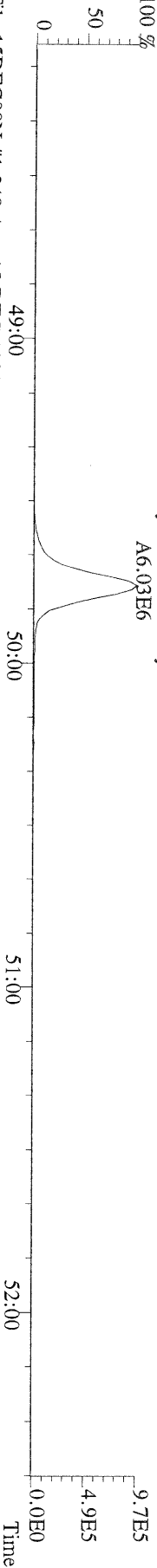
File:15DEC08N #1-541 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
430.9728 S:4 F:4 Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



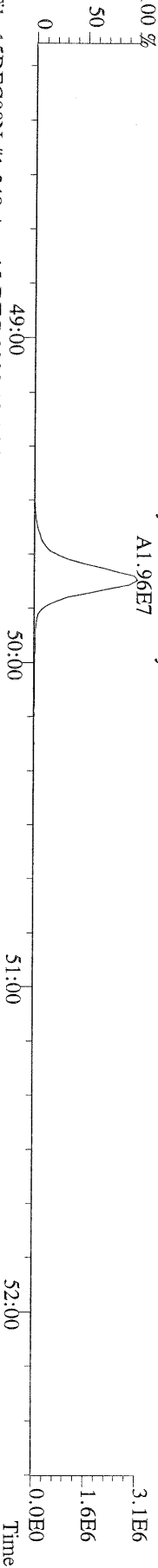
File:15DEC08N #1-348 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
457.7377 S:4 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



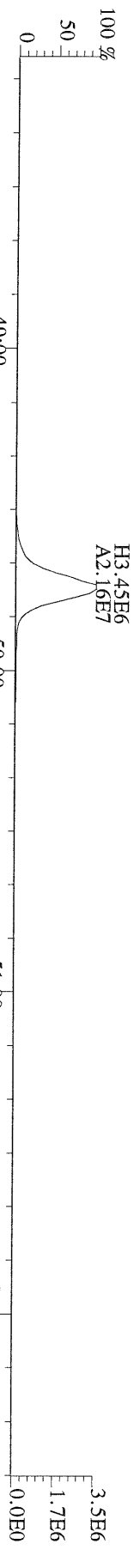
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459.7348 S:4 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



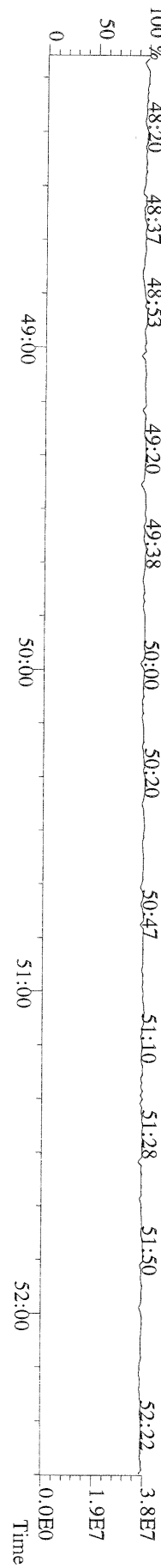
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469.7780 S:4 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



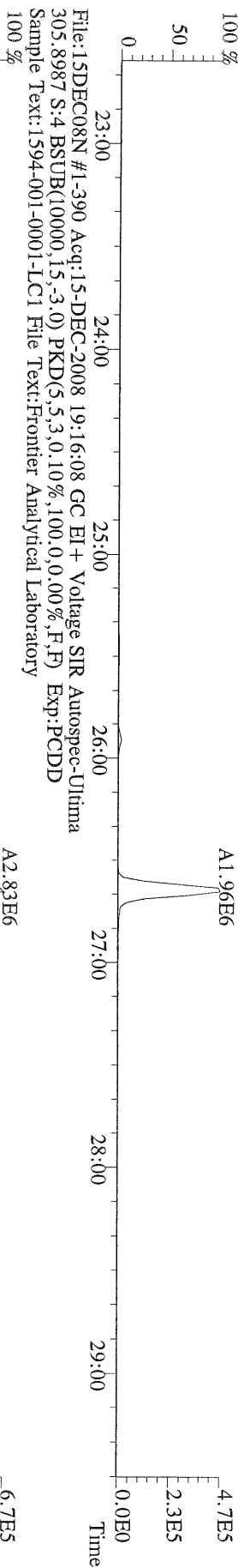
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471.7750 S:4 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



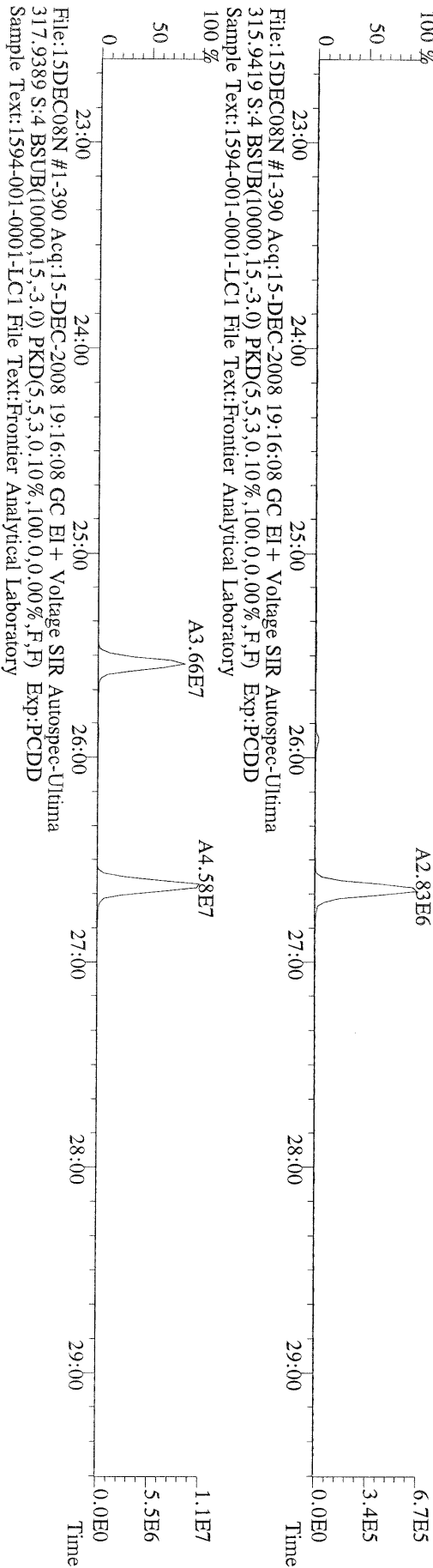
File:15DEC08N #1-348 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
454.9728 S:4 F:5 Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory
100 %



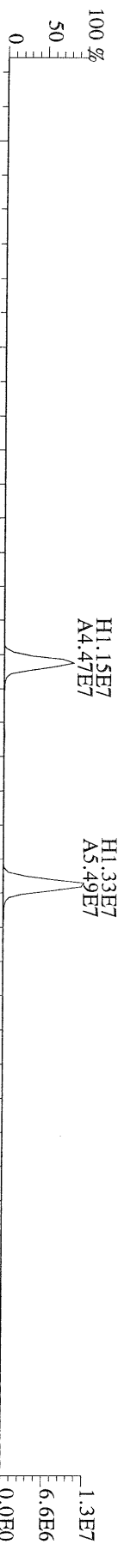
File:15DEC08N #1-390 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



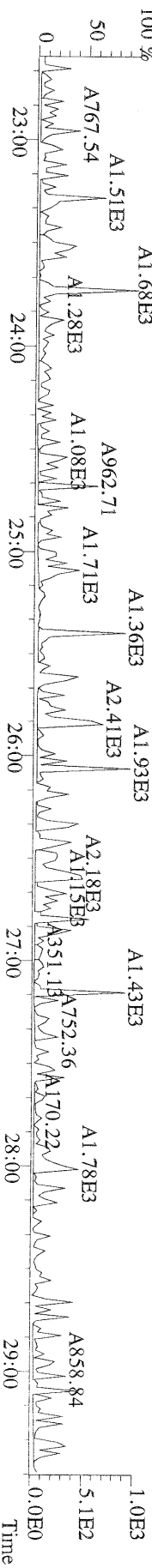
File:15DEC08N #1-390 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



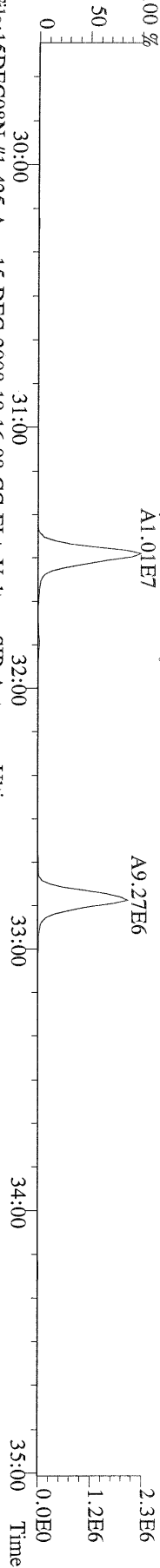
File:15DEC08N #1-390 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



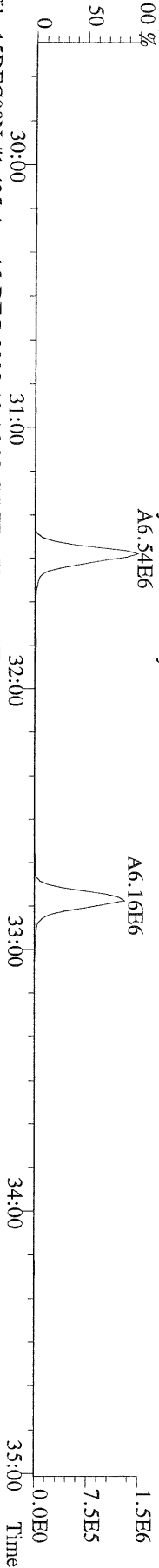
File:15DEC08N #1-390 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



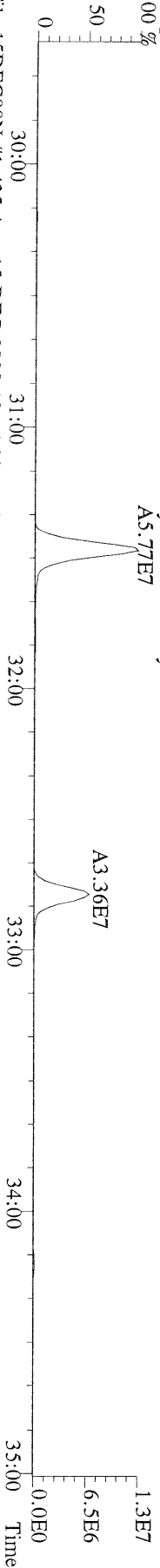
File:15DEC08N #1-425 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



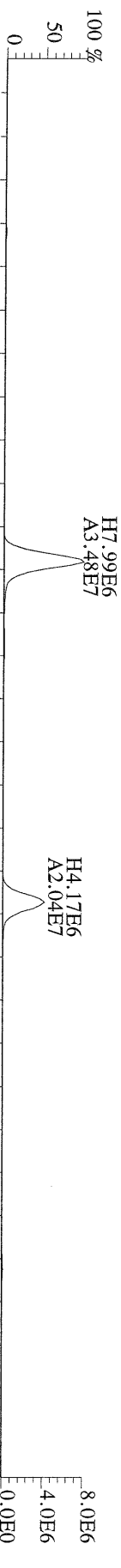
File:15DEC08N #1-425 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
341.8568 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



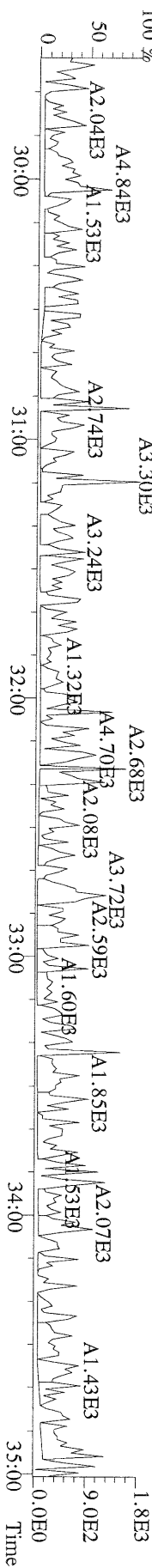
File:15DEC08N #1-425 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
351.9000 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



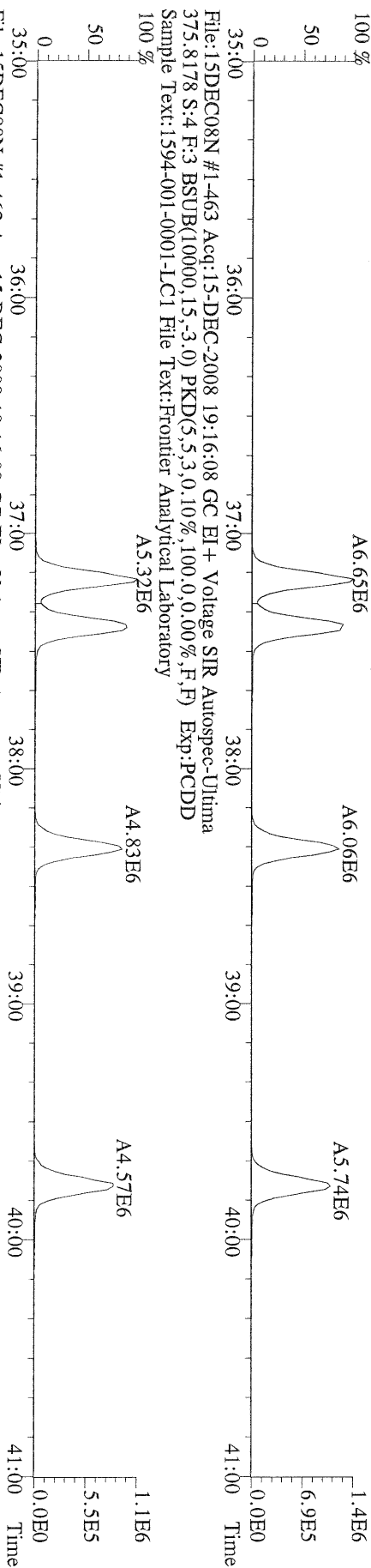
File:15DEC08N #1-425 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
353.8970 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



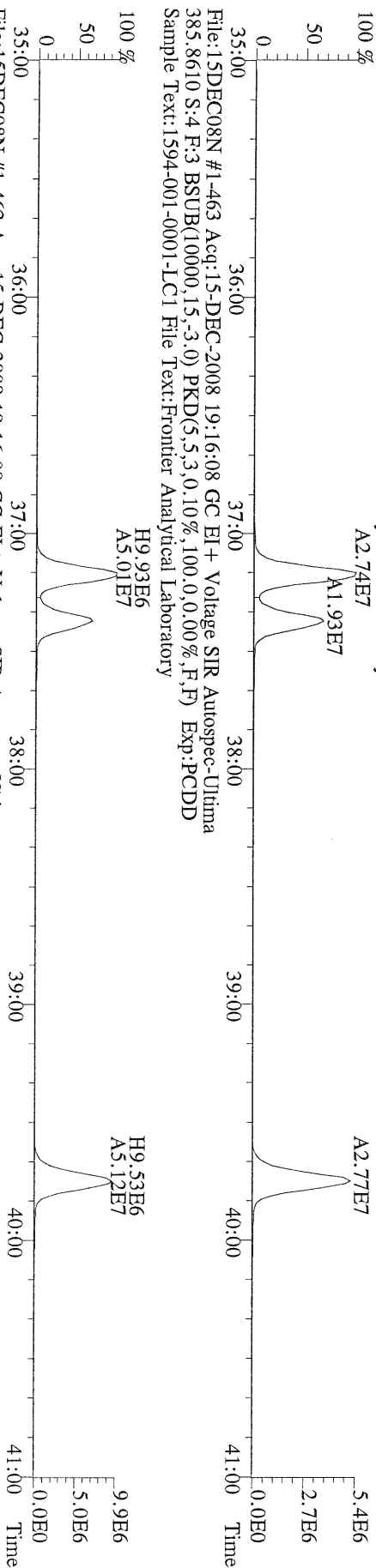
File:15DEC08N #1-425 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
409.7974 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



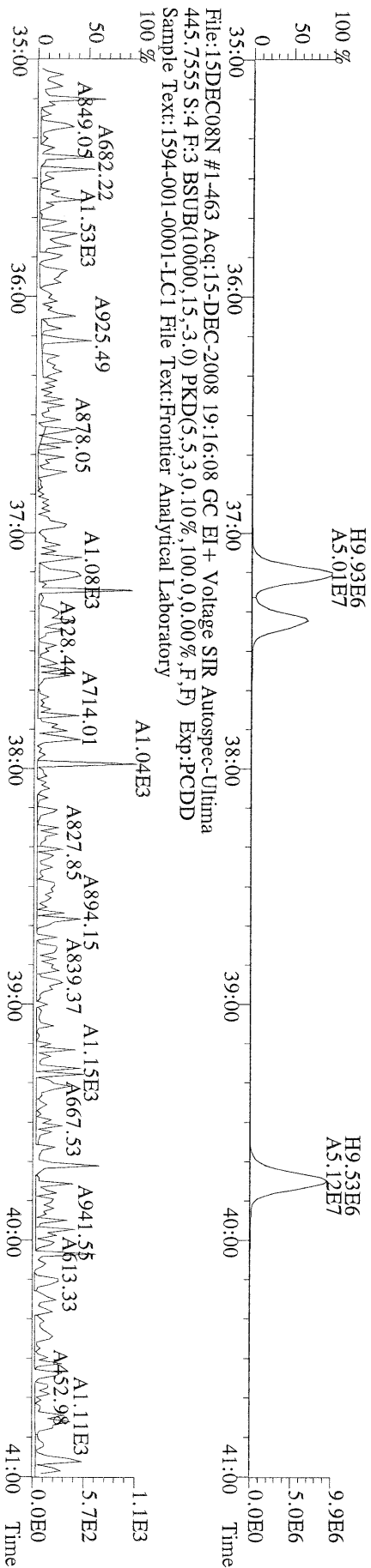
File:15DEC08N #1-463 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



File:15DEC08N #1-463 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
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:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory

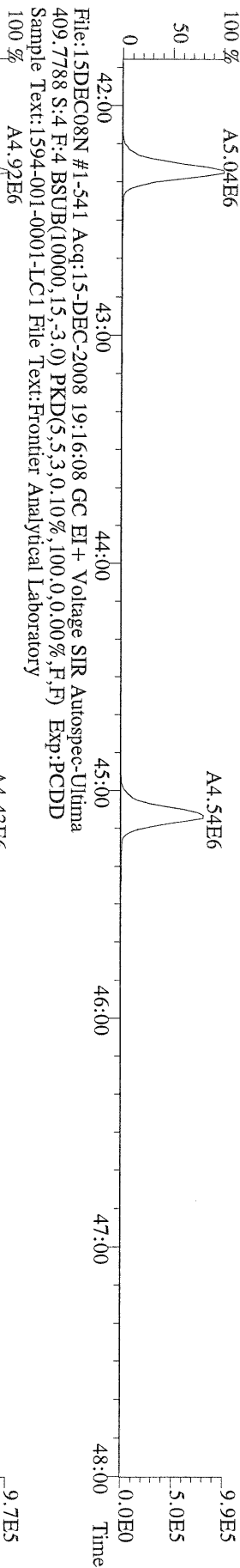


File:15DEC08N #1-463 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
385.8610 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory

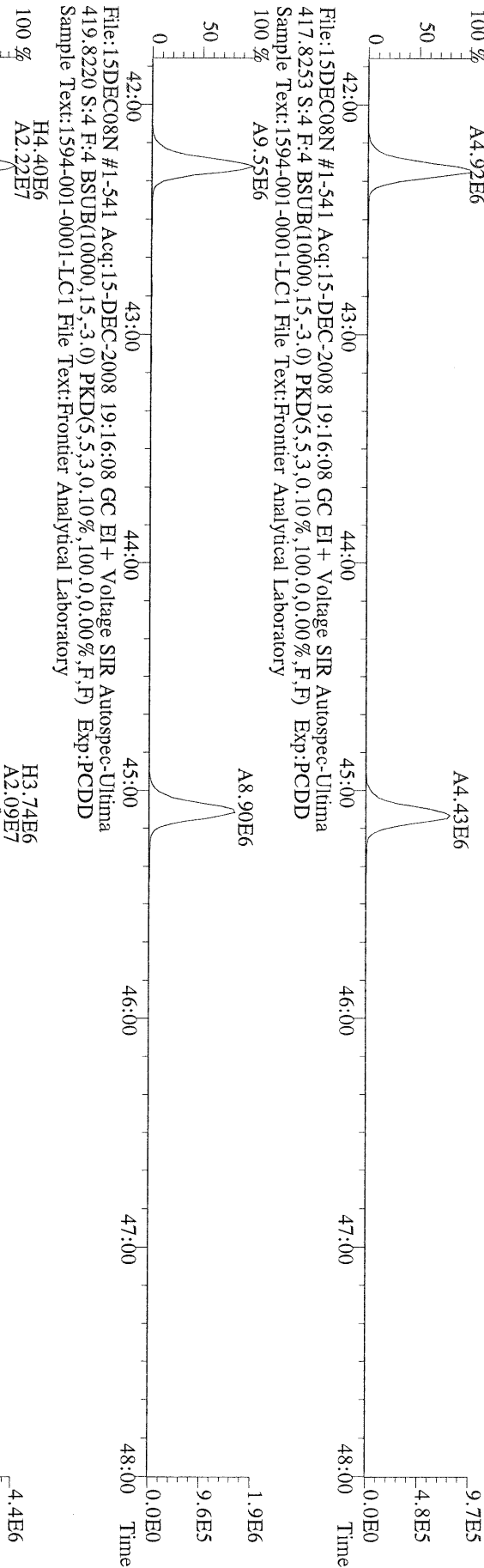


File:15DEC08N #1-463 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory

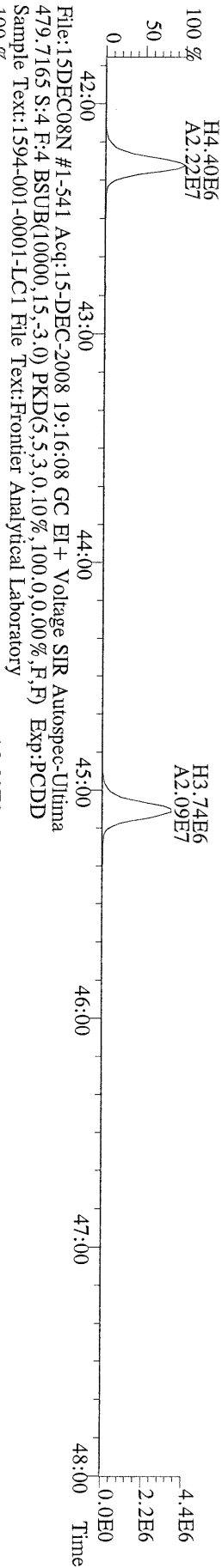
File:15DEC08N #1-541 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



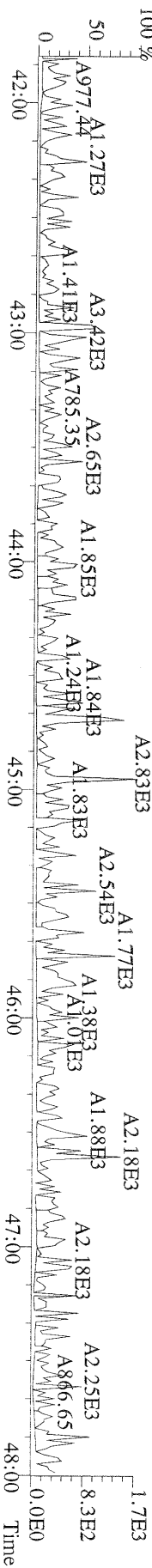
File:15DEC08N #1-541 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



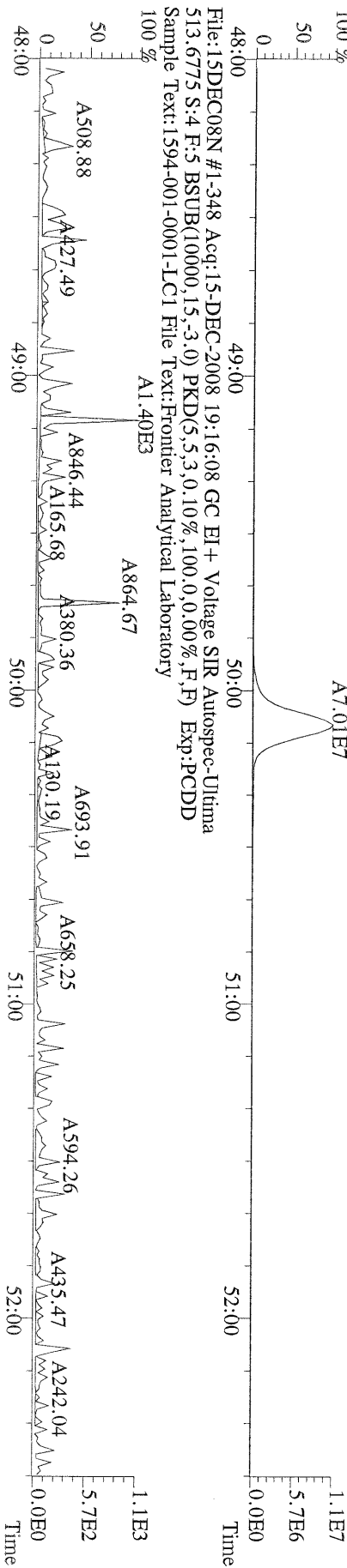
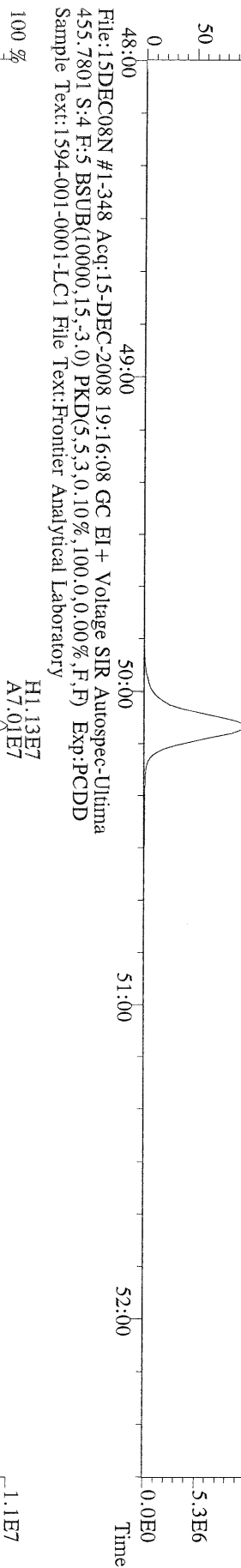
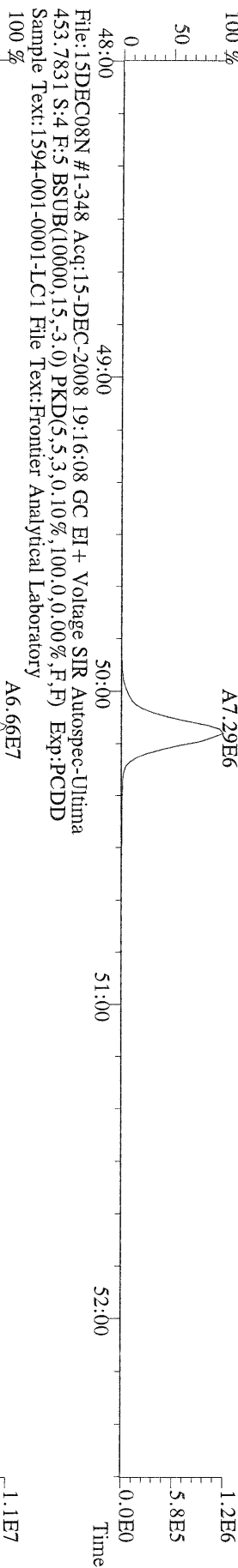
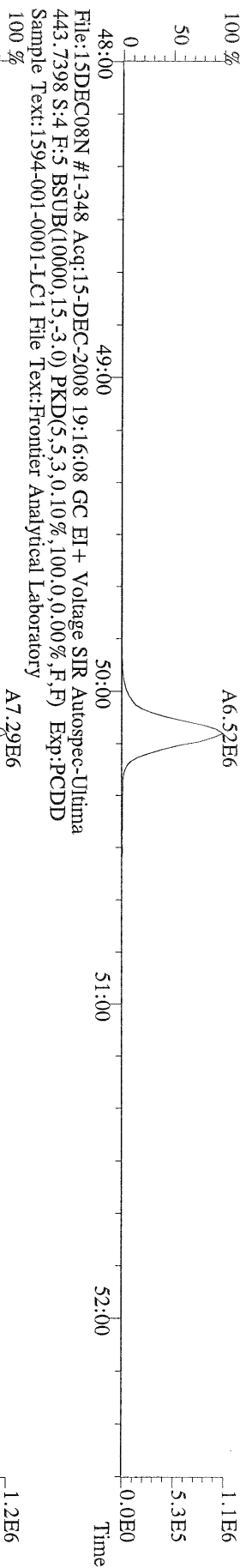
File:15DEC08N #1-541 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



File:15DEC08N #1-541 Acq:15-DEC-2008 19:16:08 GC EI + Voltage SIR Autospec-Ultima
479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory



File:15DEC08N #1-348 Acq:15-DEC-2008 19:16:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC1 File Text:Frontier Analytical Laboratory




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 OPR Data Filename: 15DEC08N Sam:5
Ext. Date: 12/12/08 Shift: Day Analysis Date: 15-DEC-08 20:11:22

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	3.82	3.00 - 7.00 ✓
1,2,3,7,8-PeCDD	25.0	21.5	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDD	25.0	23.9	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDD	25.0	23.0	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDD	25.0	22.2	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDD	25.0	25.3	15.0 - 35.0 ✓
OCDD	50.0	45.3	30.0 - 70.0 ✓
2,3,7,8-TCDF	5.00	4.68	3.00 - 7.00 ✓
1,2,3,7,8-PeCDF	25.0	21.9	15.0 - 35.0 ✓
2,3,4,7,8-PeCDF	25.0	22.8	15.0 - 35.0 ✓
1,2,3,4,7,8-HxCDF	25.0	21.4	15.0 - 35.0 ✓
1,2,3,6,7,8-HxCDF	25.0	20.9	15.0 - 35.0 ✓
2,3,4,6,7,8-HxCDF	25.0	19.7	15.0 - 35.0 ✓
1,2,3,7,8,9-HxCDF	25.0	22.0	15.0 - 35.0 ✓
1,2,3,4,6,7,8-HpCDF	25.0	23.2	15.0 - 35.0 ✓
1,2,3,4,7,8,9-HpCDF	25.0	27.1	15.0 - 35.0 ✓
OCDF	50.0	44.2	30.0 - 70.0 ✓

Analyst: 

Date: 12/16/08

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 OPR Data Filename: 15DEC08N Sam:5
Ext. Date: 12/12/08 Shift: Day Analysis Date: 15-DEC-08 20:11:22

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	91.3	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDD	100	83.0	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	100	87.7	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDD	100	88.4	40.0 - 130 ✓
13C-OCDD	200	158	50.0 - 260 ✓
13C-2,3,7,8-TCDF	100	89.5	40.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	100	86.9	40.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	100	91.3	40.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	100	80.7	40.0 - 130 ✓
13C-OCDF	200	186	50.0 - 260 ✓
CLEANUP STANDARD			
13C-1,2,3,7,8,9-HxCDF	100	98.0	40.0 - 130 ✓
PRE-SPIKE STANDARD			
37Cl-2,3,7,8-TCDD	100	95.6	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDD	100	105	70.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	100	74.6	70.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	100	105	70.0 - 130 ✓
13C-1,2,3,4,7,8,9-HpCDF	100	117	70.0 - 130 ✓

Analyst: 

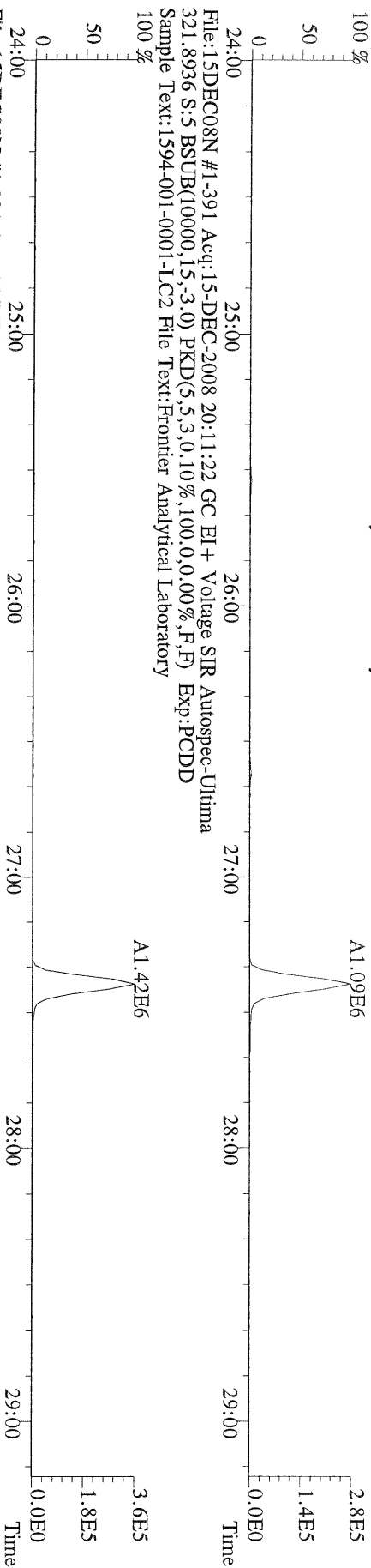
Date: 12/16/08

NATO 1989 Tox: 43.7
WHO 1998 Tox: 54.4

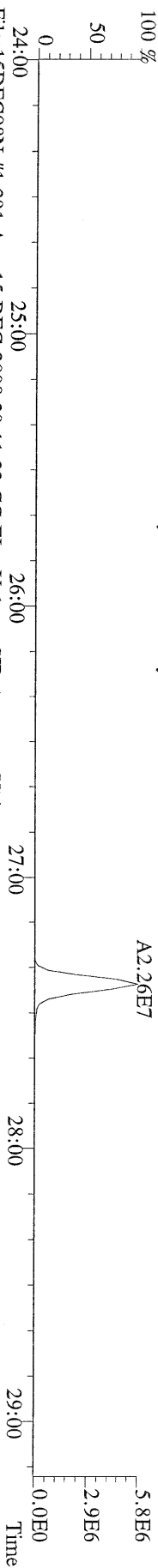
Analyst:

Date:

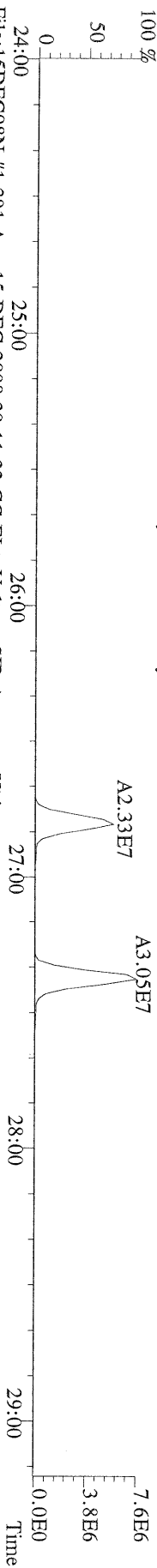
File:15DEC08N #1-391 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



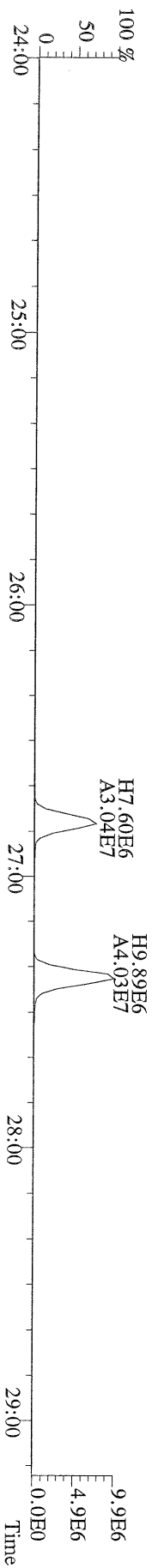
File:15DEC08N #1-391 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



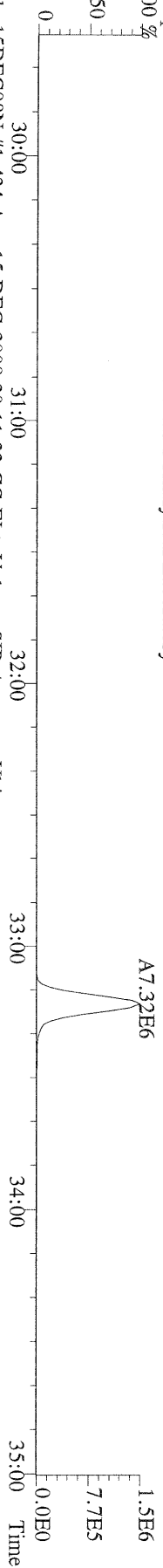
File:15DEC08N #1-391 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



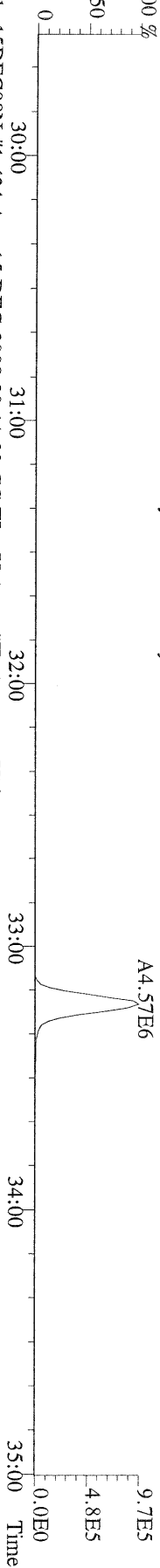
File:15DEC08N #1-391 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



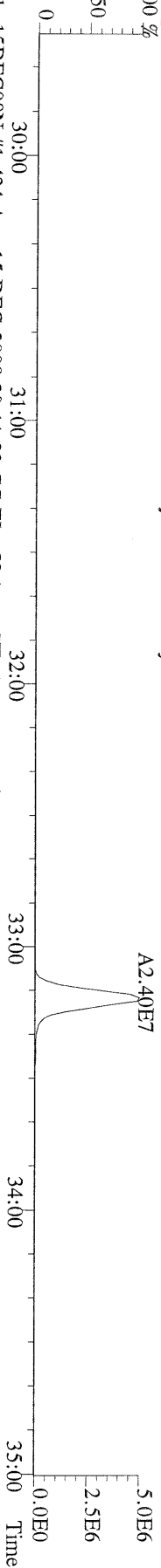
File:15DEC08N #1-424 Acq:15-DEC-2008 20:11:22 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



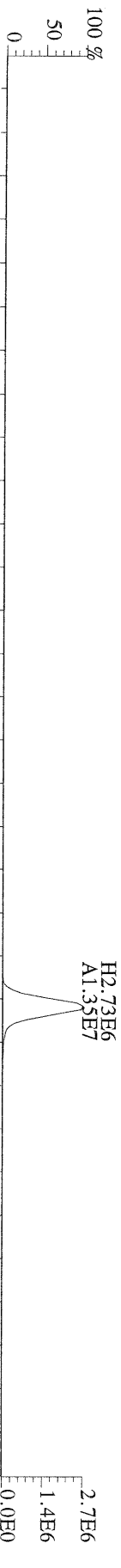
File:15DEC08N #1-424 Acq:15-DEC-2008 20:11:22 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



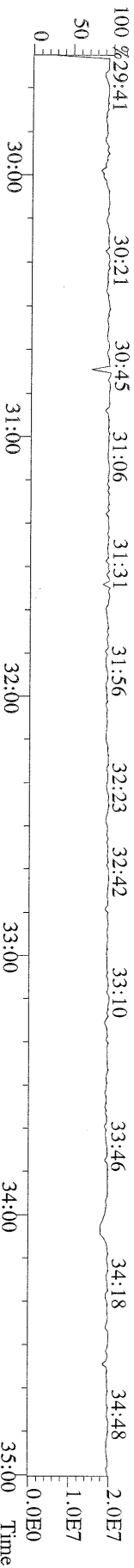
File:15DEC08N #1-424 Acq:15-DEC-2008 20:11:22 GC EI+ Voltage SIR Autospec-Ultima
367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



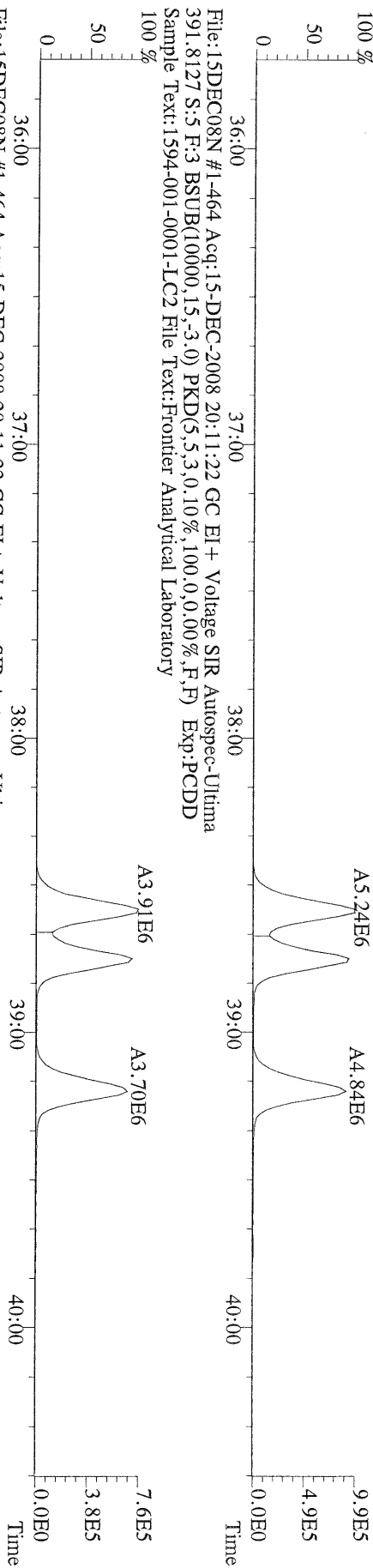
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369.8919 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



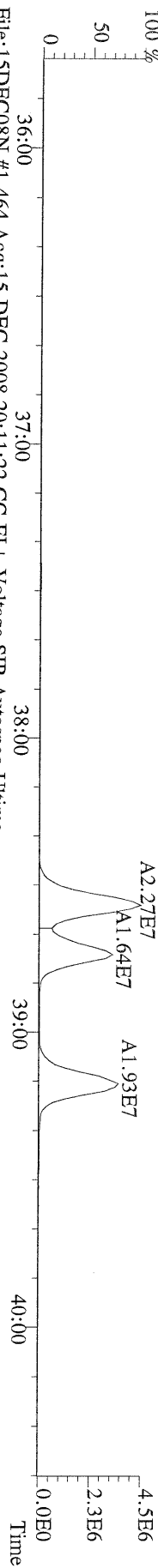
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366.9792 S:5 F:2 Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



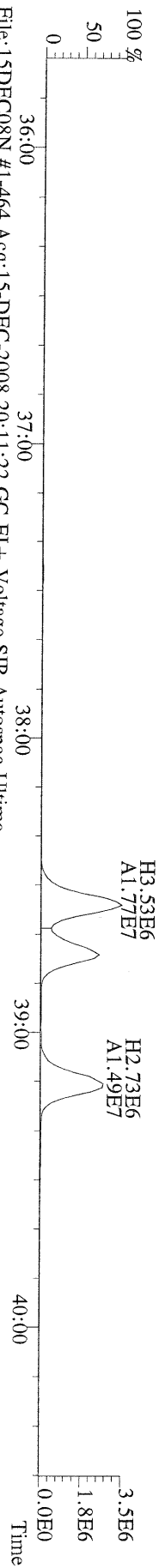
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389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



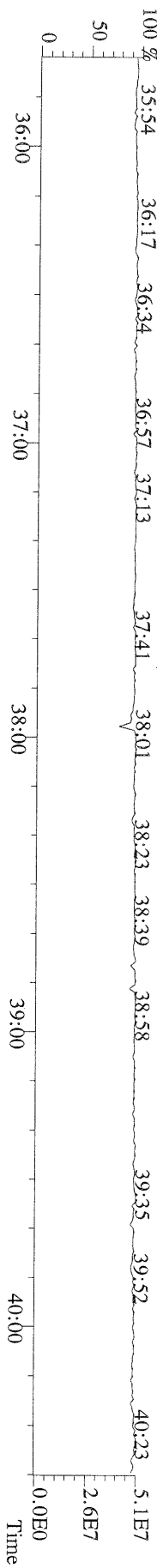
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401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



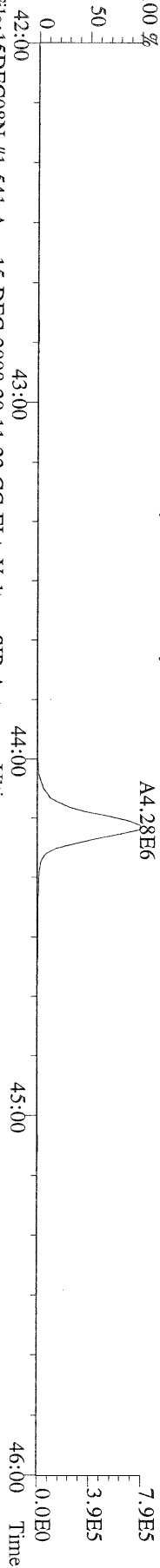
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403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



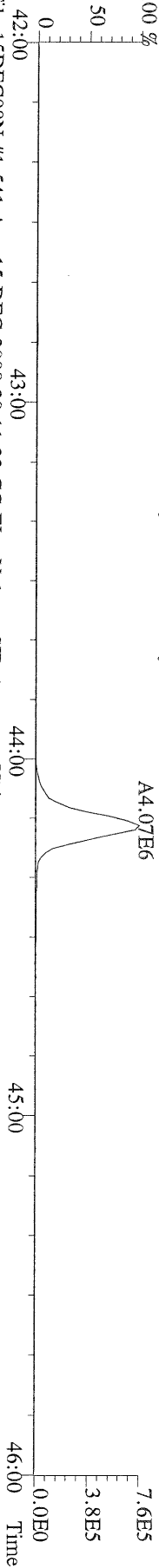
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380.9760 S:5 F:3 Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



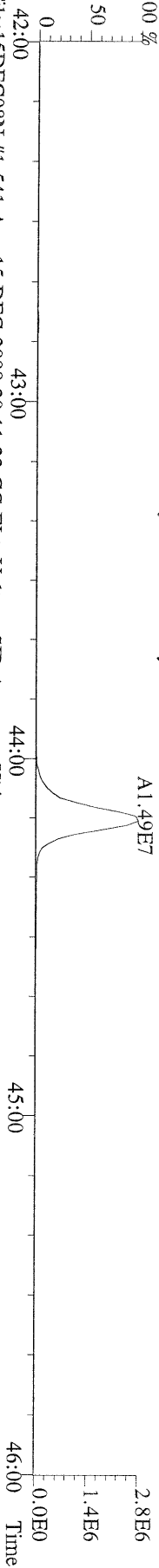
File:15DEC08N #1-541 Acq:15-DEC-2008 20:11:22 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



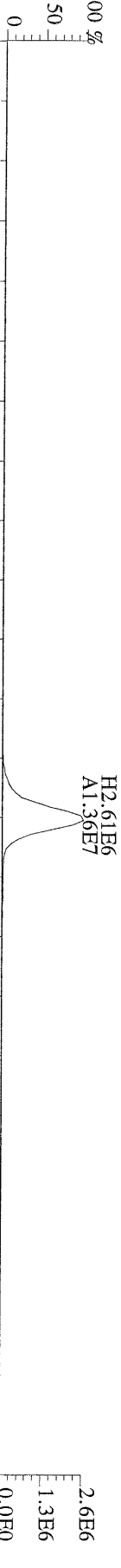
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425.7737 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



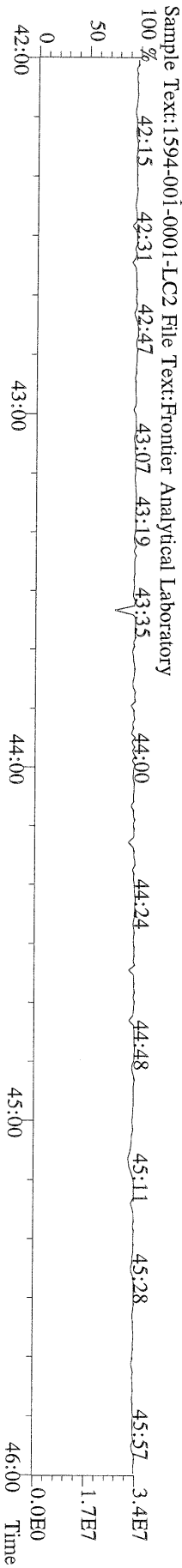
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435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



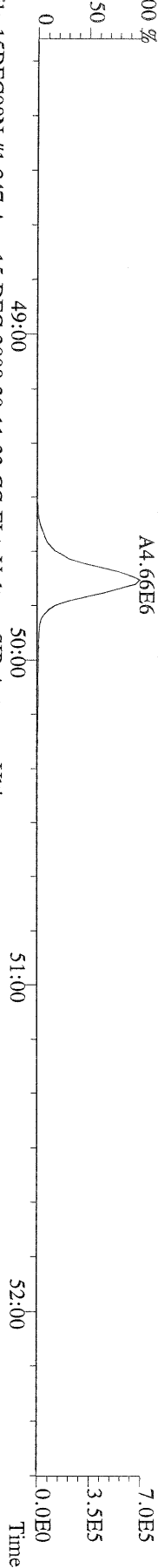
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437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



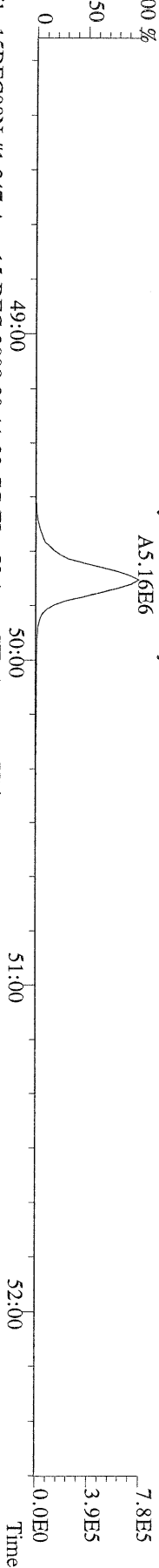
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430.9728 S:5 F:4 Exp:PCDD



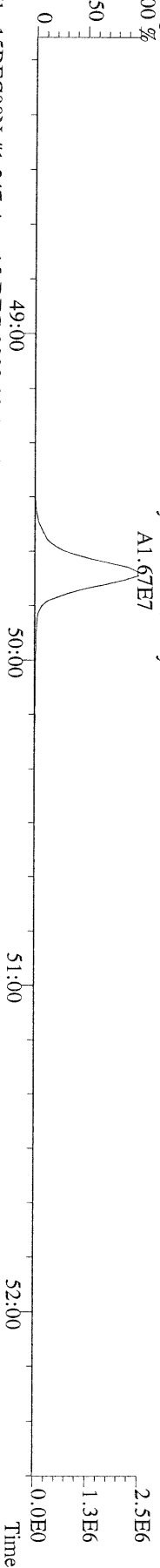
File:15DEC08N #1-347 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory
100 %



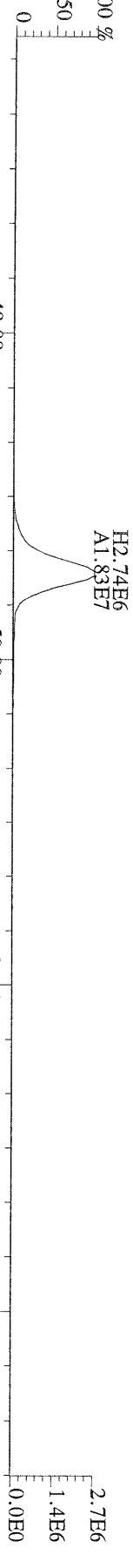
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459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory
100 %



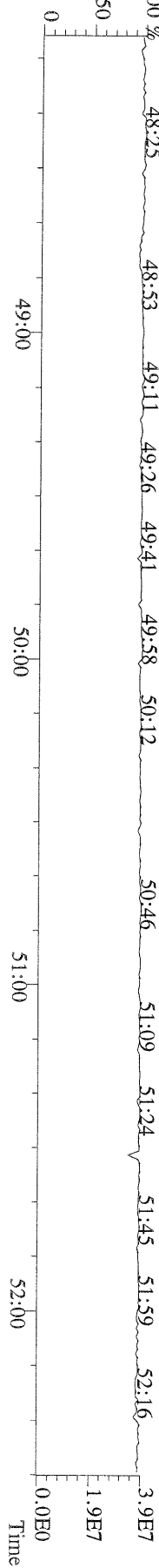
File:15DEC08N #1-347 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory
100 %



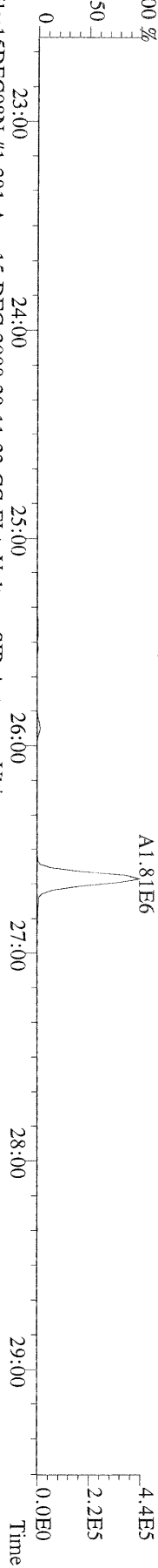
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471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



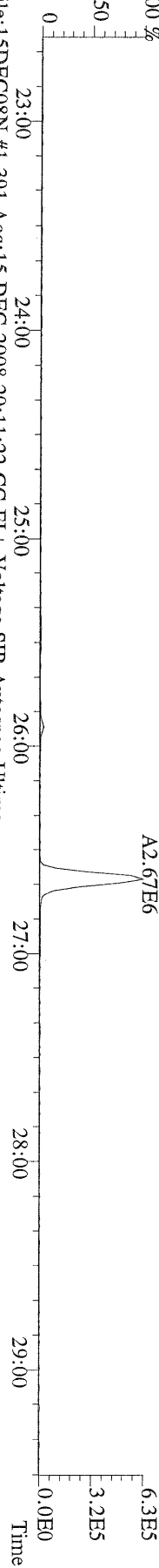
File:15DEC08N #1-347 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
454.9728 S:5 F:5 Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory
100 %



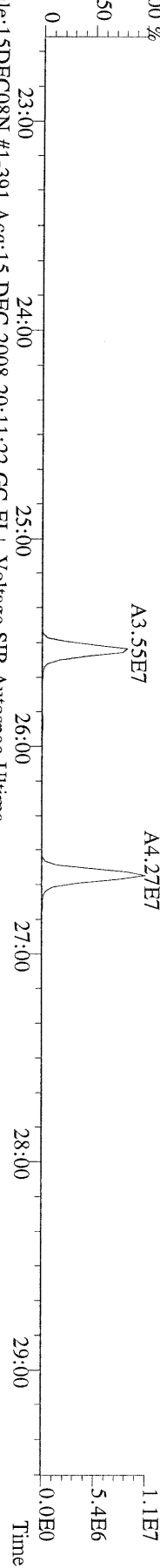
File:15DEC08N #1-391 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



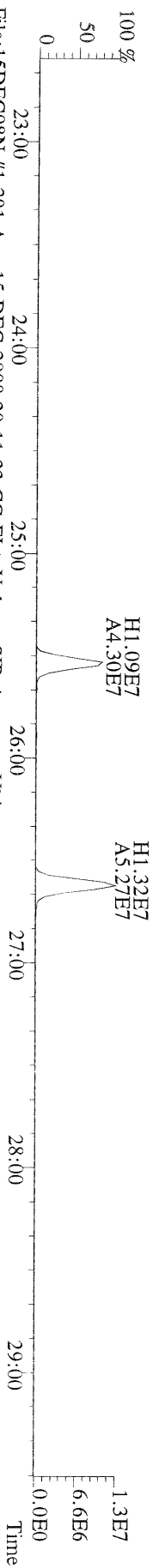
File:15DEC08N #1-391 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



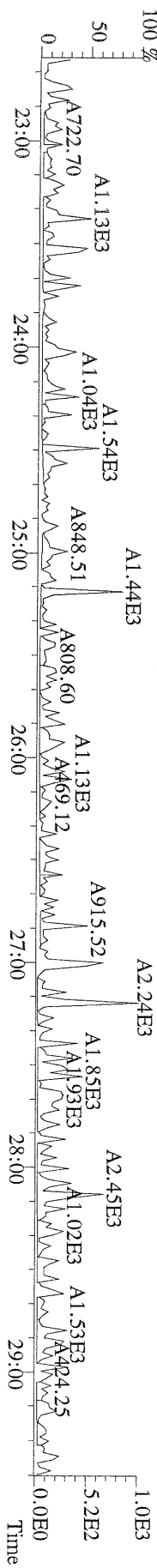
File:15DEC08N #1-391 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
315.9419 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



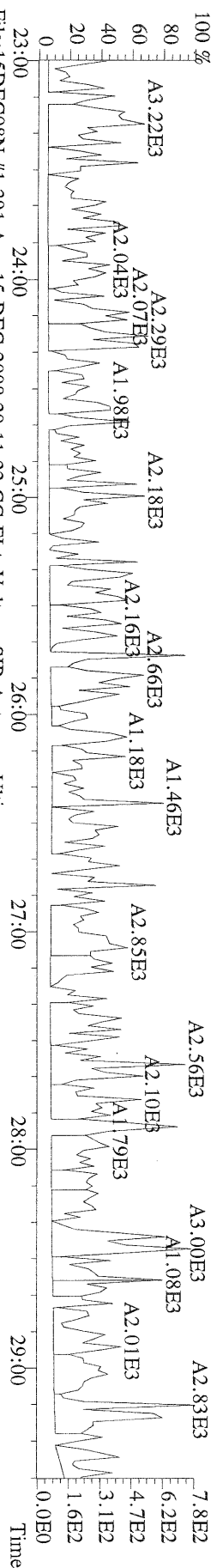
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317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



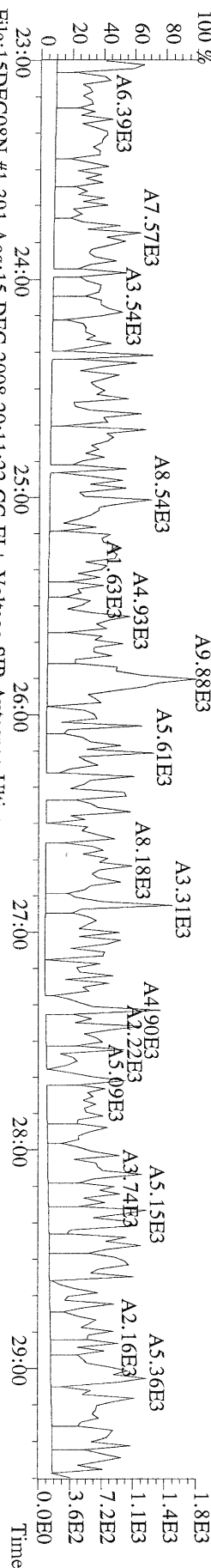
File:15DEC08N #1-391 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



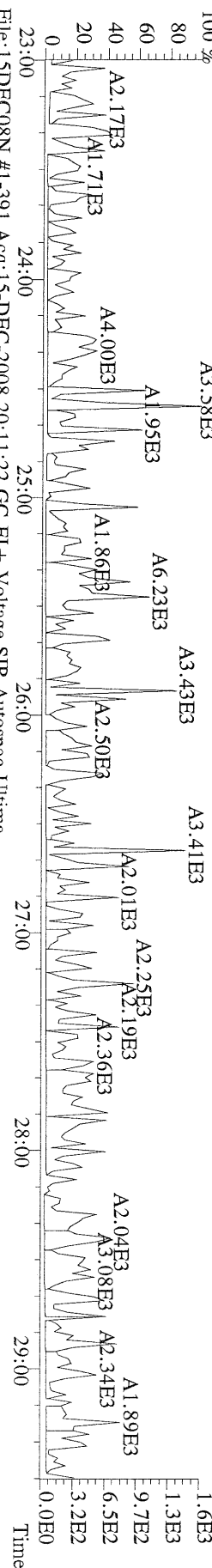
File:15DEC08N #1-391 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



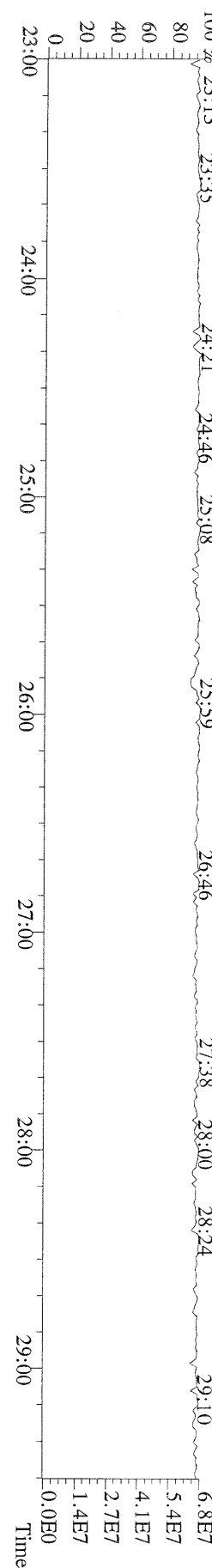
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341.8568 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



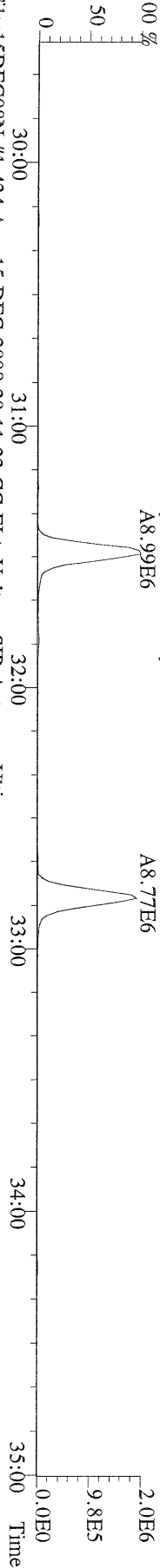
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409.7974 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



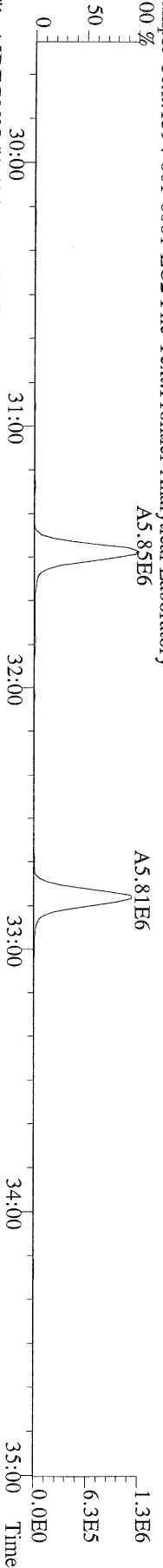
File:15DEC08N #1-391 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
330.9792 S:5 Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



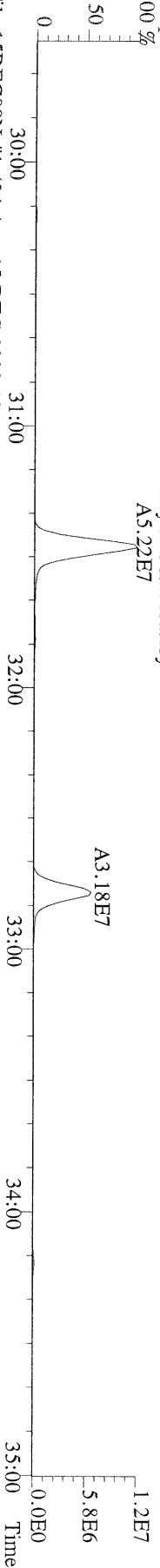
File:15DEC08N #1-424 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



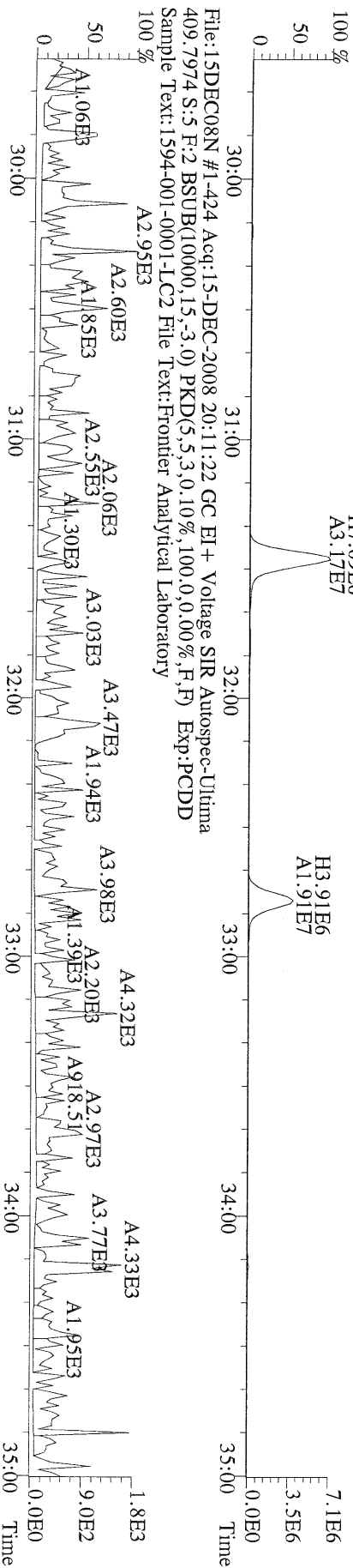
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341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
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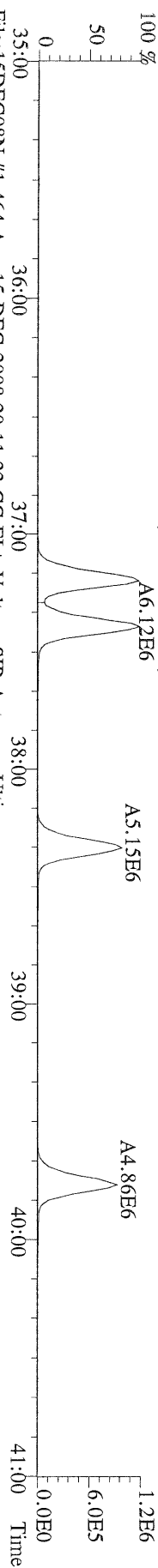
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351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



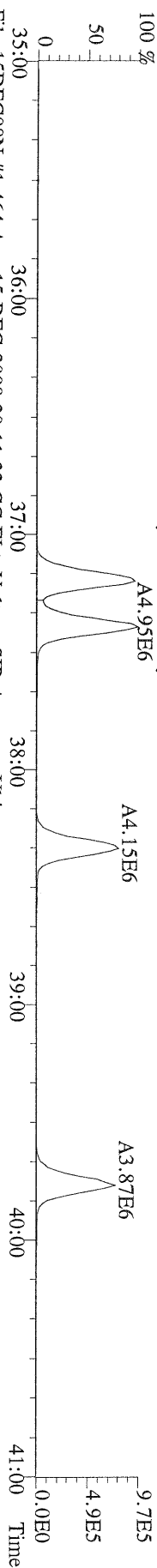
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409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



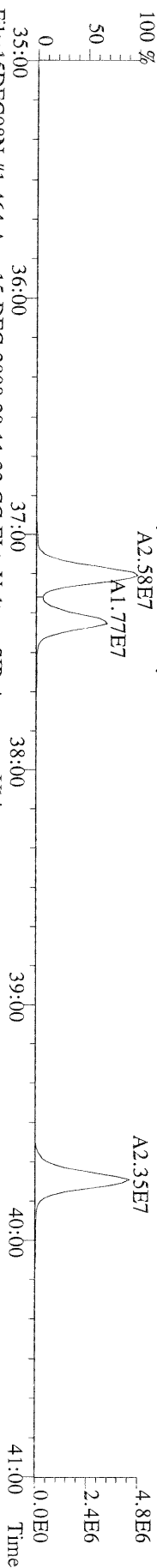
File:15DEC08N #1-464 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



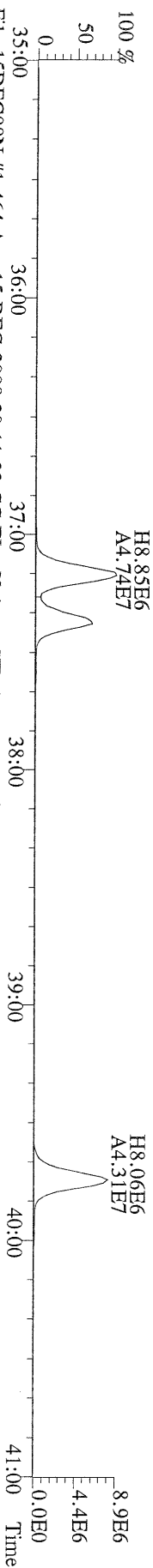
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375.8178 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



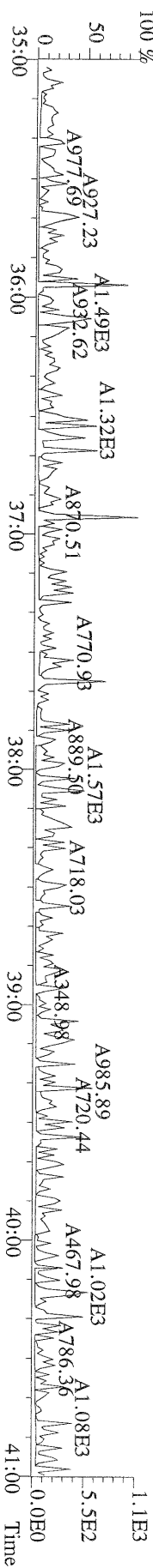
File:15DEC08N #1-464 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



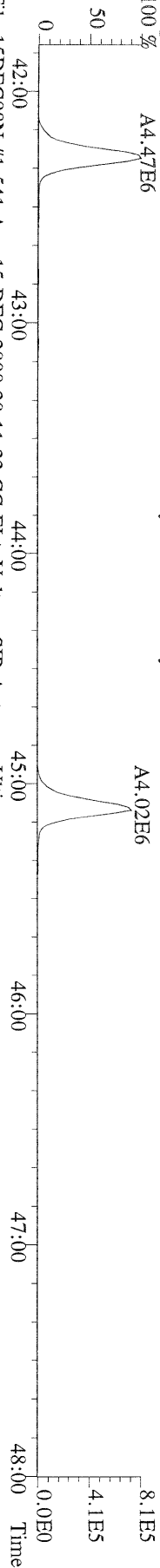
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385.8610 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



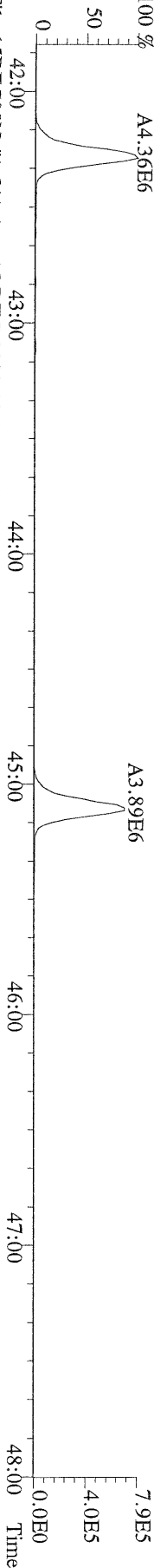
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445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



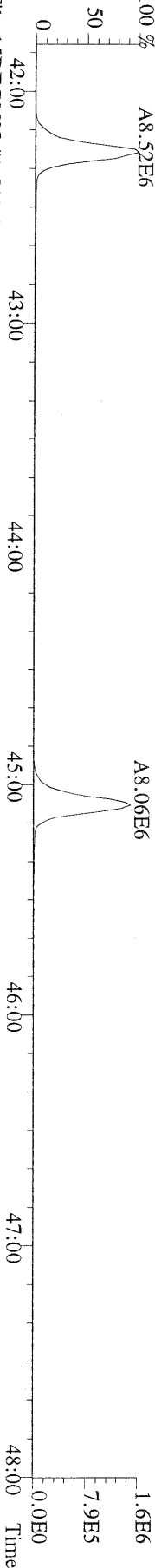
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407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



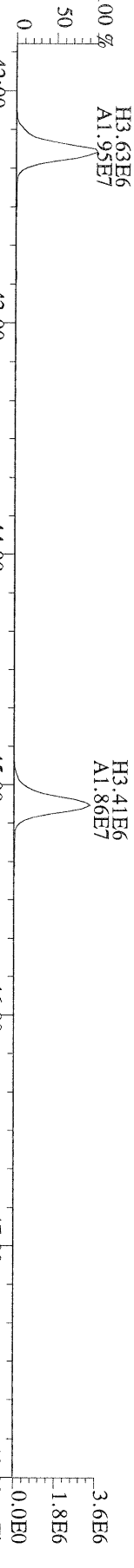
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409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



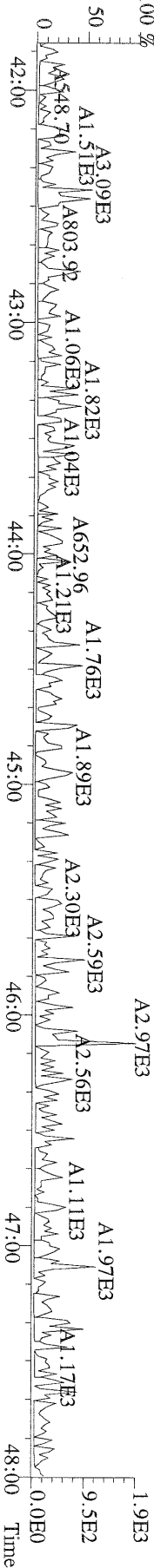
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417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



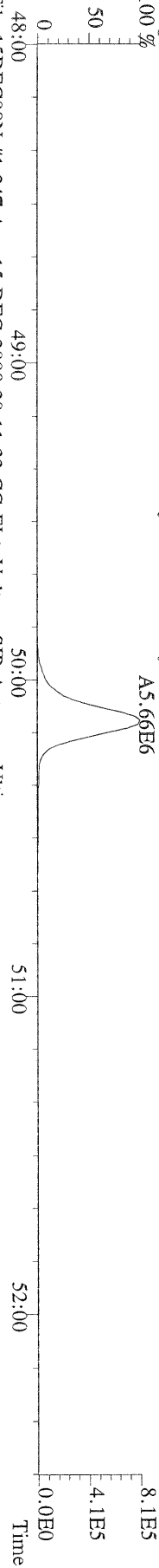
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419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



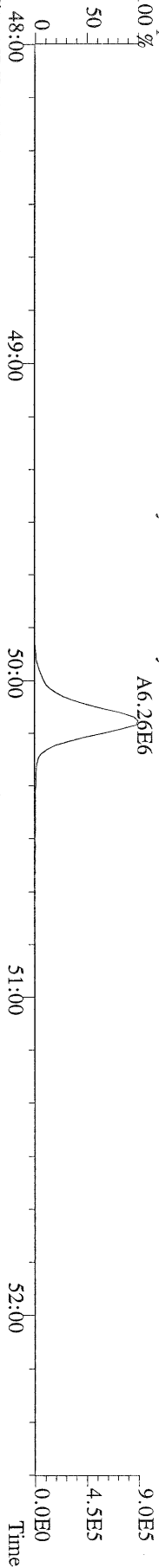
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479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



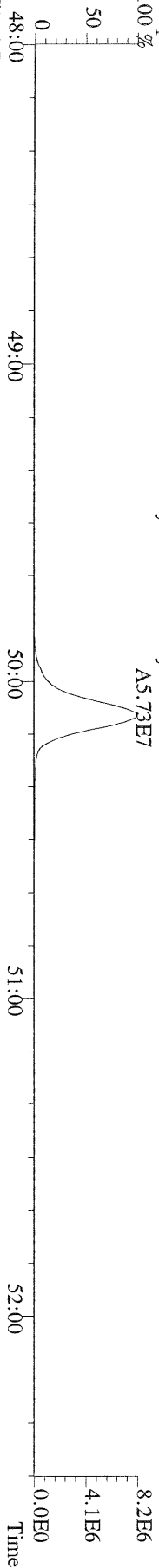
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441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



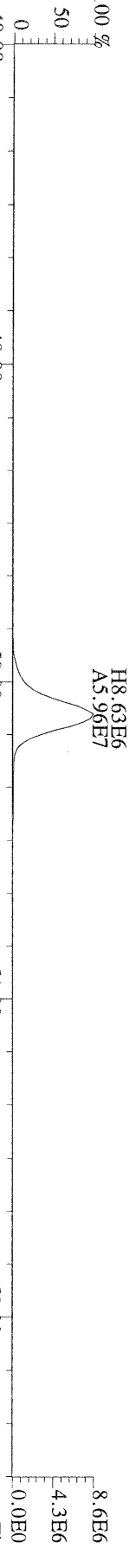
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443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



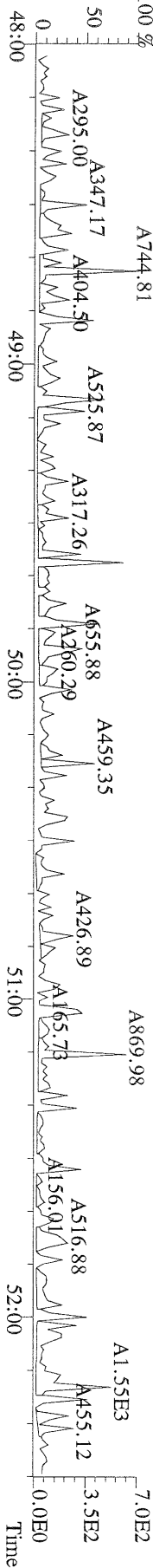
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453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



File:15DEC08N #1-347 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



File:15DEC08N #1-347 Acq:15-DEC-2008 20:11:22 GC EI + Voltage SIR Autospec-Ultima
513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:1594-001-0001-LC2 File Text:Frontier Analytical Laboratory



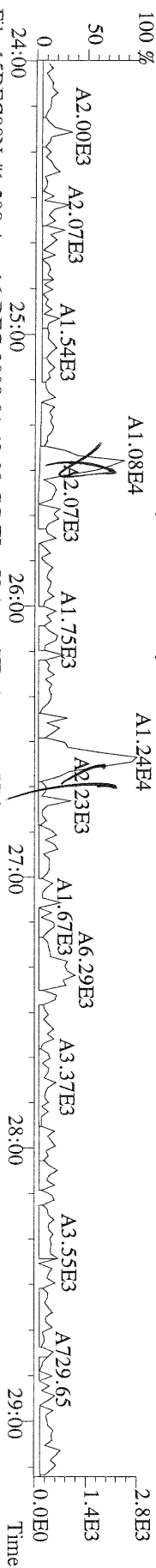
FAL ID: 5234-001-0001-SA Filename: 15DEC08N Sam:11 Acquired: 16-DEC-08 01:43:08 ICal: AIRFAL3-8-29-08
 Client ID: OFF02-120808BS ConCal: ST121508N1 EndCal: ST121508N2
 Results: 5234 GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 0.00
 WHO 1998 Tox: 0.00

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
2,3,7,8-TCDD	*	* n	NotFnd	0.93	*		2.50	706	1.02	
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.48	*		2.50	295	0.905	
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.32	*		2.50	529	1.87	
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.25	*		2.50	529	1.97	
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.32	*		2.50	529	1.86	
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.16	*		2.50	356	1.32	
OCDD	*	* n	NotFnd	1.24	*		2.50	564	3.28	
2,3,7,8-TCDF	*	* n	NotFnd	1.00	*		2.50	1120	1.14	
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.81	*		2.50	728	1.59	
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.76	*		2.50	728	1.68	
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.02	*		2.50	585	1.09	
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.05	*		2.50	585	1.05	
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	0.93	*		2.50	585	1.18	
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	0.79	*		2.50	585	1.40	
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	255	0.537	
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.04	*		2.50	255	0.702	
OCDF	*	* n	NotFnd	0.46	*		2.50	538	2.65	
13C-2,3,7,8-TCDD	5.42e+07	0.76 y	27:20	1.44	3930					Rec 98.3
13C-1,2,3,7,8-PeCDD	2.99e+07	1.77 y	33:11	0.84	3720					93.0
13C-1,2,3,6,7,8-HxCDD	2.41e+07	1.28 y	38:43	0.97	3740					93.6
13C-1,2,3,4,6,7,8-HpCDD	2.43e+07	1.09 y	44:10	0.94	3870					96.9
13C-OCDD	3.32e+07	0.91 y	49:44	0.65	7730					96.6
13C-2,3,7,8-TCDF	7.34e+07	0.81 y	26:35	1.36	3930					98.3
13C-1,2,3,7,8-PeCDF	6.92e+07	1.66 y	31:26	1.23	4090					102
13C-1,2,3,6,7,8-HxCDF	4.00e+07	0.55 y	37:21	1.61	3730					93.1
13C-1,2,3,4,6,7,8-HpCDF	2.51e+07	0.44 y	42:14	1.02	3710					92.8
13C-OCDF	1.06e+08	0.94 y	50:05	1.83	8740					109
13C-1,2,3,7,8,9-HxCDF	5.61e+07	0.55 y	39:44	1.99	4250					106
37Cl-2,3,7,8-TCDD	1.81e+07		27:21	0.33	3990					99.7
13C-1,2,3,4,7,8-HxCDD	3.40e+07	1.28 y	38:33	1.32	4270					107
13C-2,3,4,7,8-PeCDF	4.08e+07	1.66 y	32:46	0.81	2900					72.5
13C-1,2,3,4,7,8-HxCDF	6.02e+07	0.54 y	37:09	1.38	4350					109
13C-1,2,3,4,7,8,9-HpCDF	2.36e+07	0.43 y	45:04	0.81	4620					115
13C-1,2,3,4-TCDD	3.82e+07	0.77 y	26:45	-	109					
13C-1,2,3,4-TCDF	5.50e+07	0.82 y	25:29	-	96.5					
13C-1,2,3,7,8,9-HxCDD	2.66e+07	1.28 y	39:10	-	111					
Total Tetra-Dioxins	*		NotFnd	0.93	*		2.50	706	1.02	0
Total Penta-Dioxins	*		NotFnd	1.48	*		2.50	295	0.905	0
Total Hexa-Dioxins	*		NotFnd	1.29	*		2.50	529	1.97	0
Total Hepta-Dioxins	*		NotFnd	1.16	*		2.50	356	1.32	0
Total Tetra-Furans	*		NotFnd	1.00	*		2.50	1120	1.14	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.78	*		2.50	728	1.68	0
Total Penta-Furans	*		NotFnd	0.78	*		2.50	728	1.68	0
Total Hexa-Furans	*		NotFnd	0.95	*		2.50	585	1.40	0
Total Hepta-Furans	*		NotFnd	1.20	*		2.50	255	0.702	0

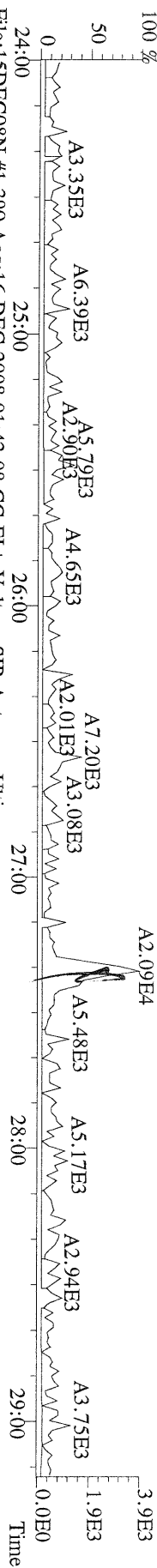
Analyst: 

Date: 12/16/08

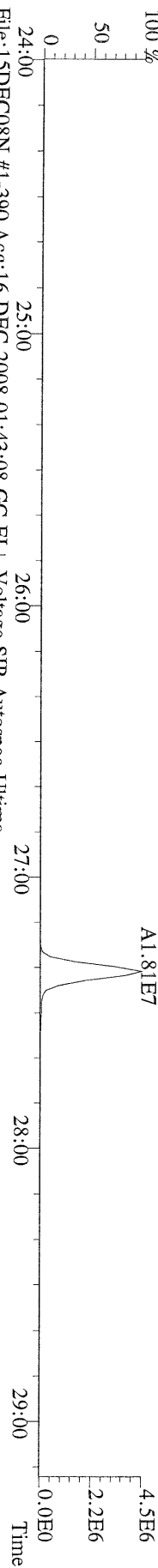
File:15DEC08N #1-390 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



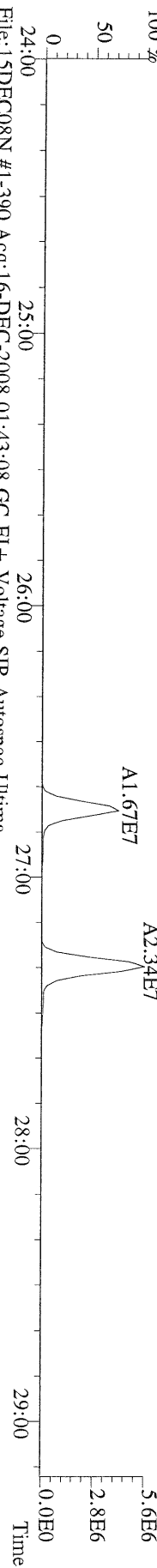
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321.8936 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



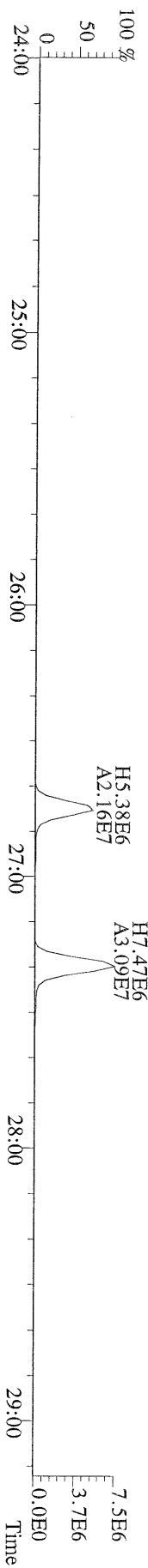
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327.8847 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



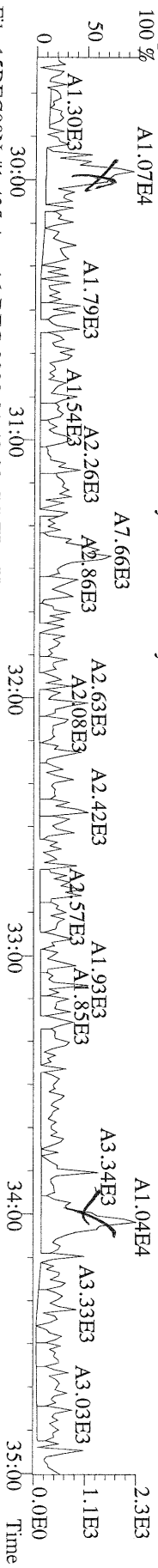
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331.9368 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



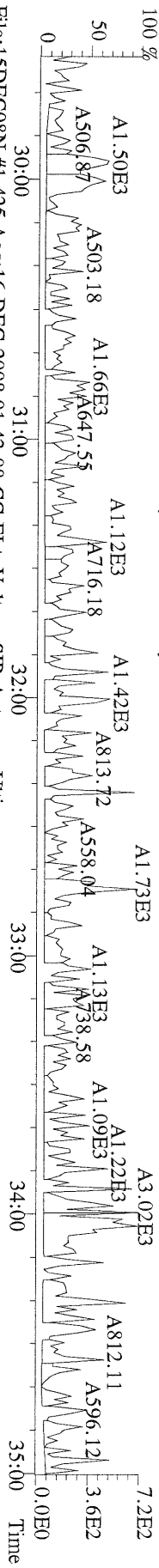
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333.9339 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



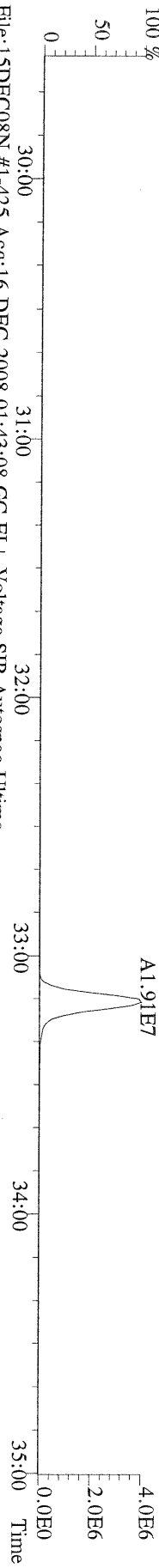
File:15DEC08N #1-425 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



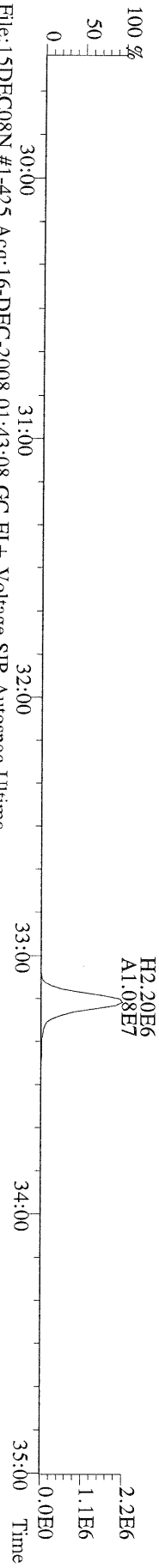
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357.8517 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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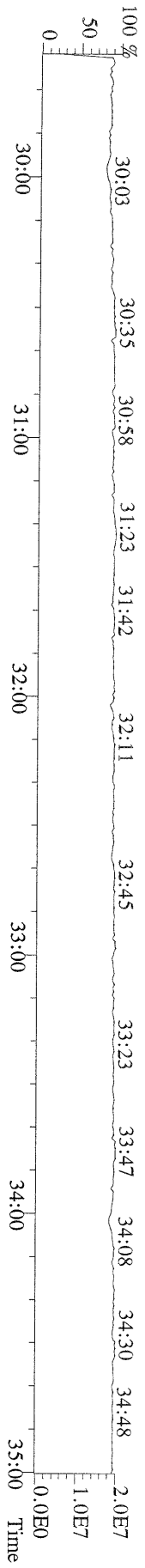
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367.8949 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



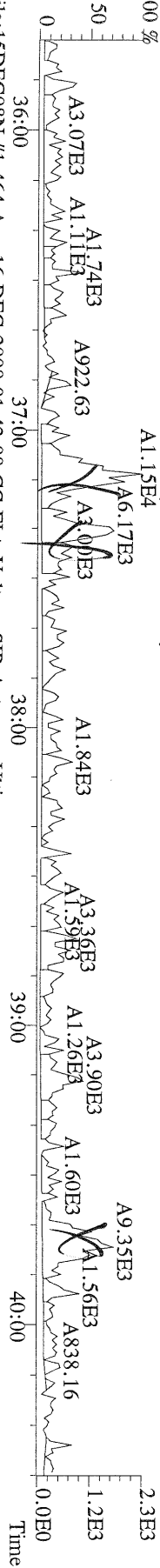
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369.8919 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



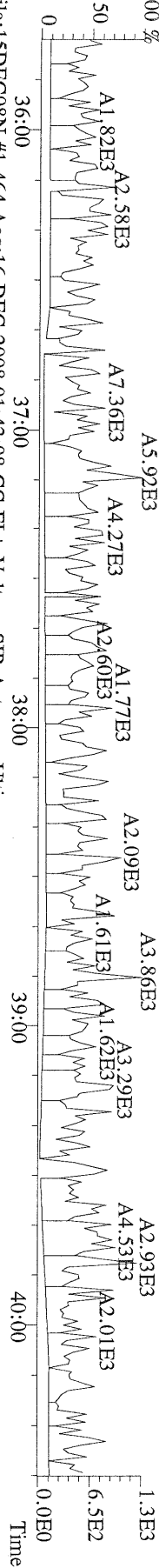
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366.9792 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



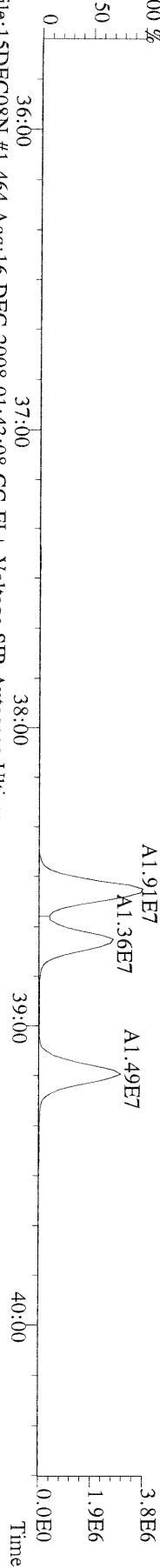
File:15DEC08N #1-464 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



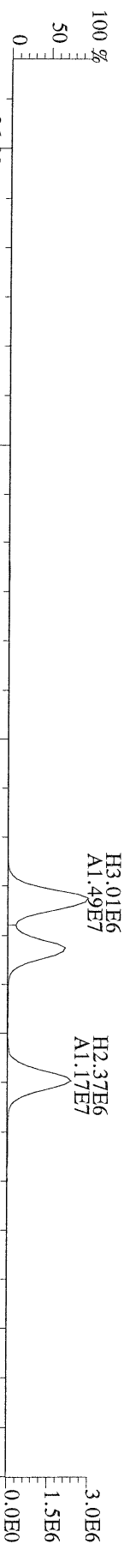
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391.8127 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



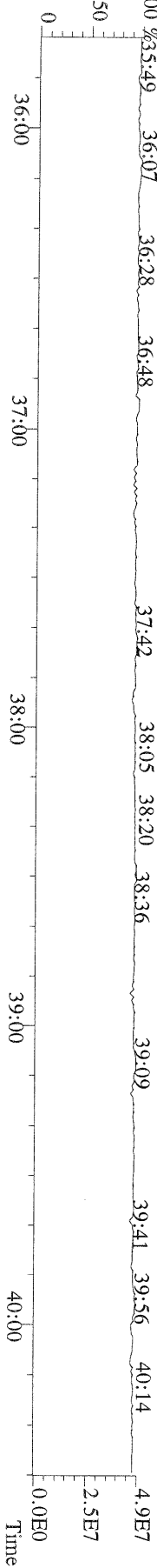
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401.8559 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



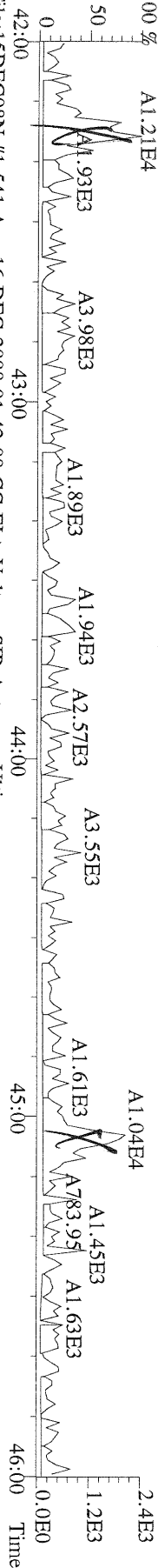
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403.8530 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



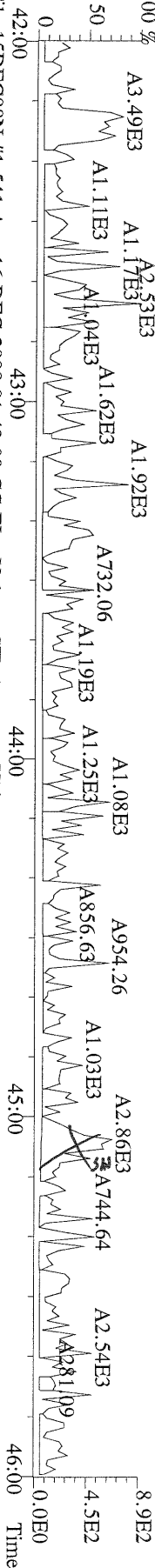
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380.9760 S:11 F:3 Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



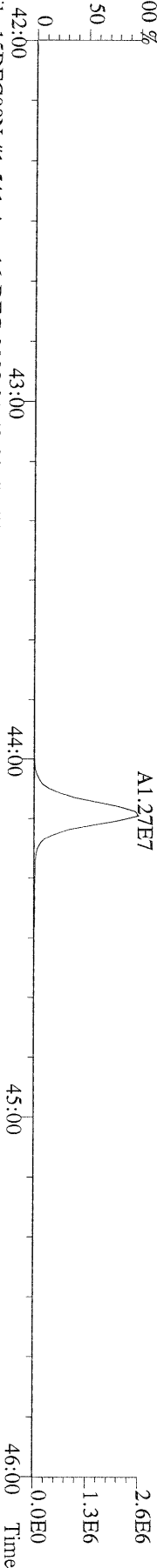
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423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



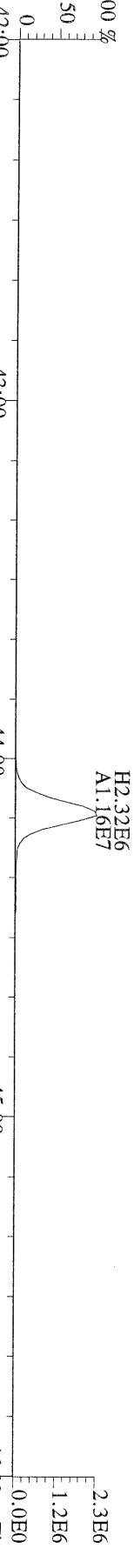
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425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



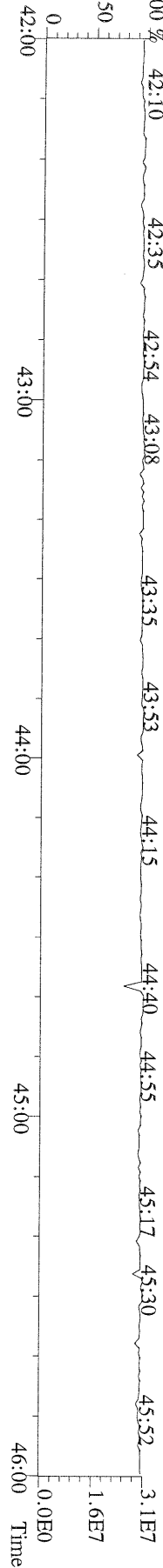
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435.8169 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



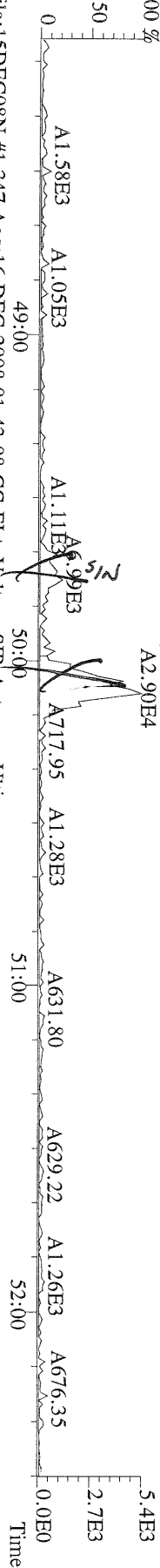
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437.8140 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



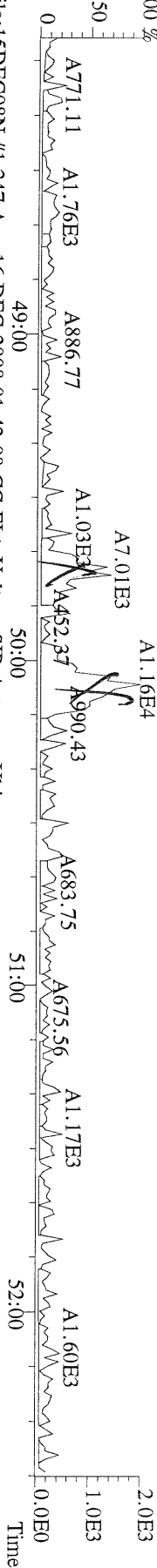
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430.9728 S:11 F:4 Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



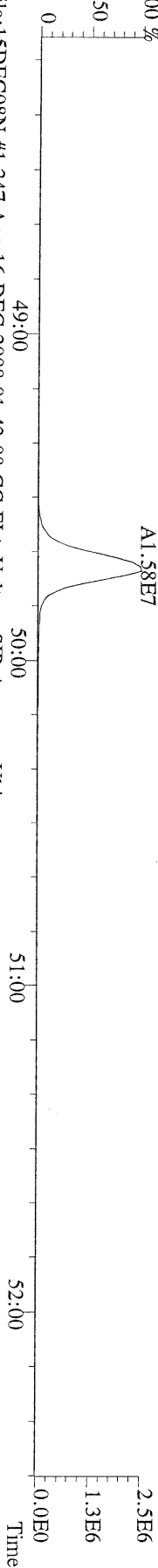
File:15DEC08N #1-347 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



File:15DEC08N #1-347 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
459.7348 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



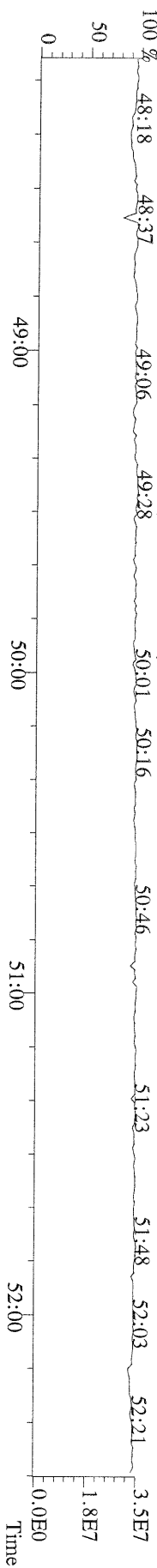
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469.7780 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
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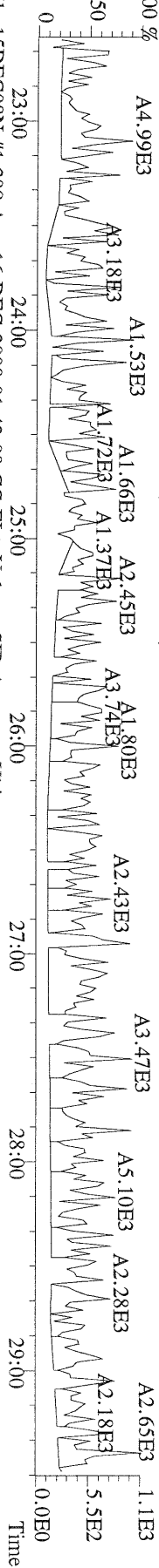
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471.7750 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
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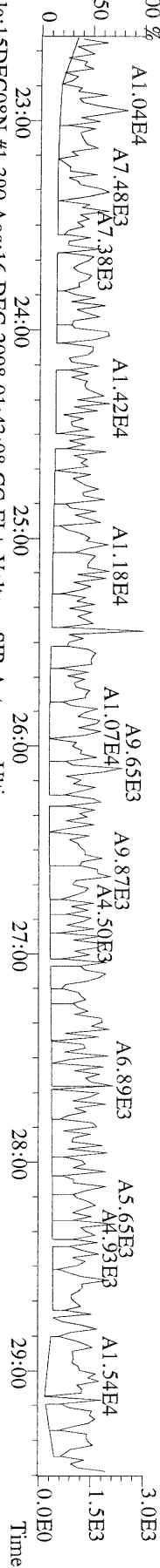
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454.9728 S:11 F:5 Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



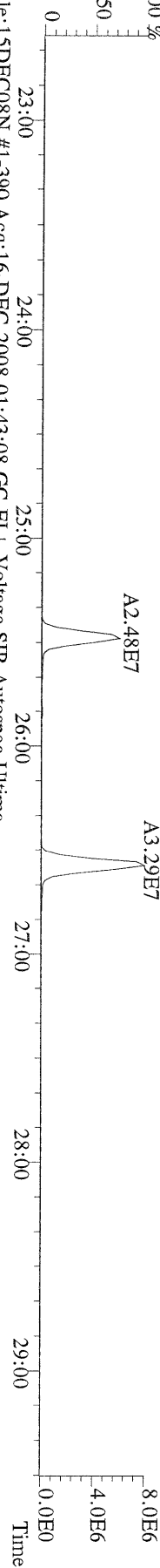
File:15DEC08N #1-390 Acq:16-DEC-2008 01:43:08 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:11 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



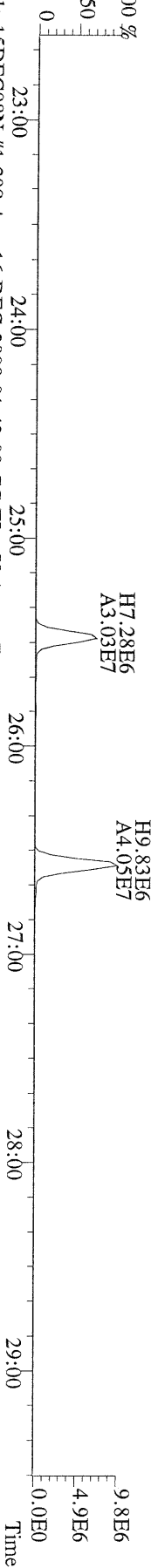
File:15DEC08N #1-390 Acq:16-DEC-2008 01:43:08 GC EI + Voltage SIR Autospec-Ultima
305.8987 S:11 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



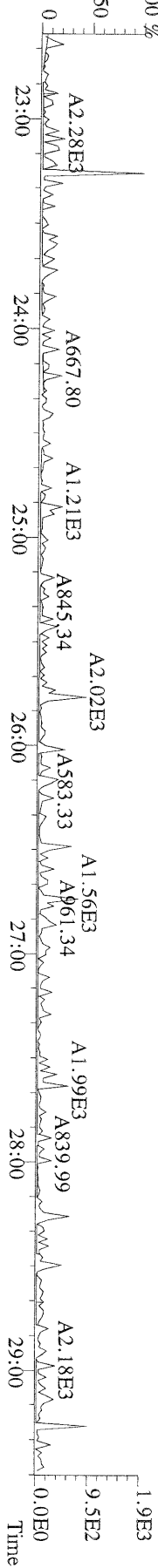
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315.9419 S:11 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



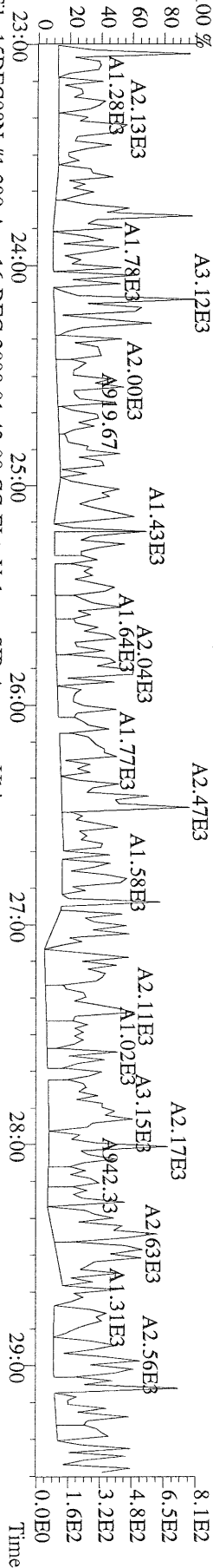
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317.9389 S:11 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



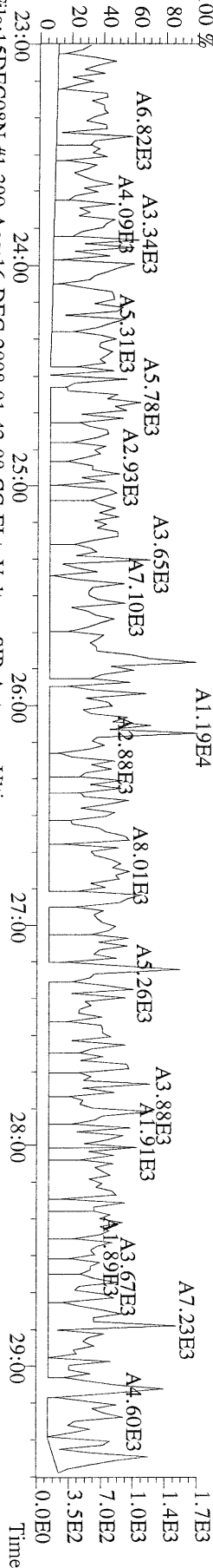
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375.8364 S:11 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



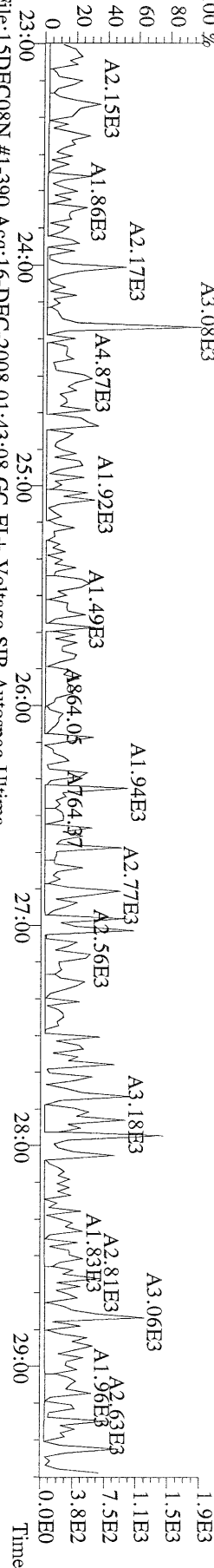
File:15DEC08N #1-390 Acq:16-DEC-2008 01:43:08 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:11 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



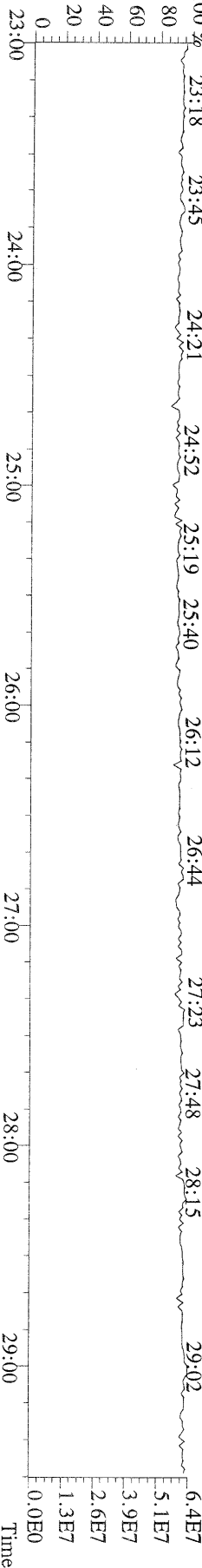
File:15DEC08N #1-390 Acq:16-DEC-2008 01:43:08 GC EI + Voltage SIR Autospec-Ultima
341.8568 S:11 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



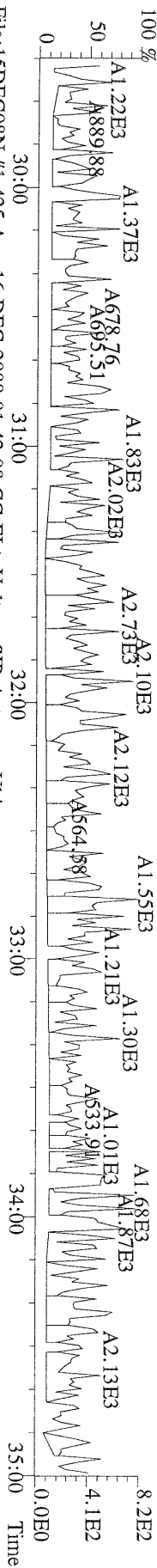
File:15DEC08N #1-390 Acq:16-DEC-2008 01:43:08 GC EI + Voltage SIR Autospec-Ultima
409.7974 S:11 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



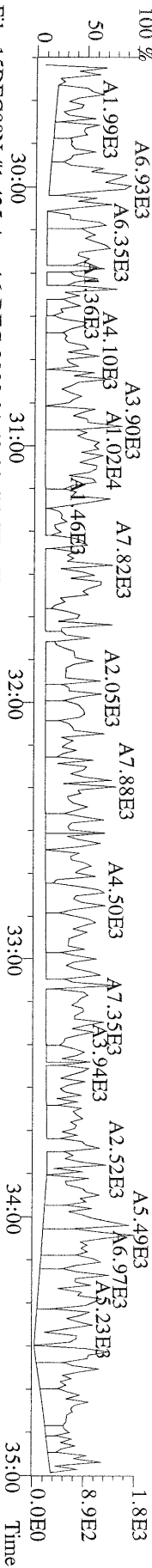
File:15DEC08N #1-390 Acq:16-DEC-2008 01:43:08 GC EI + Voltage SIR Autospec-Ultima
330.9792 S:11 Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



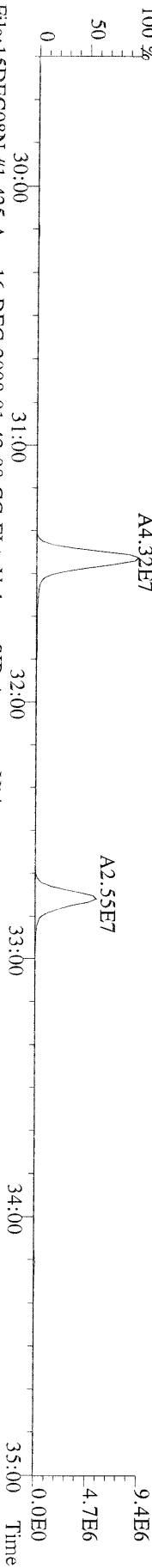
File:15DEC08N #1-425 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



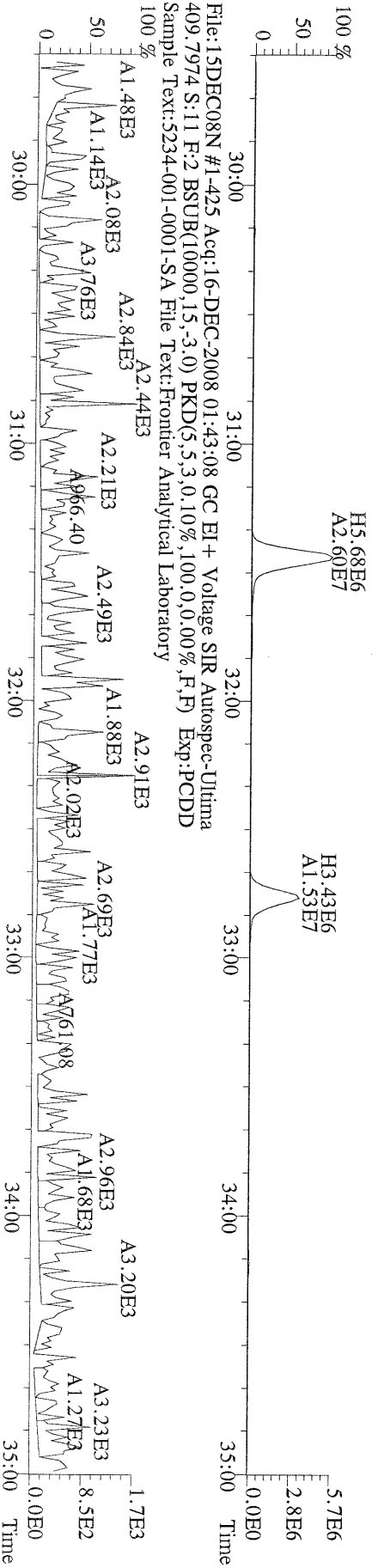
File:15DEC08N #1-425 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



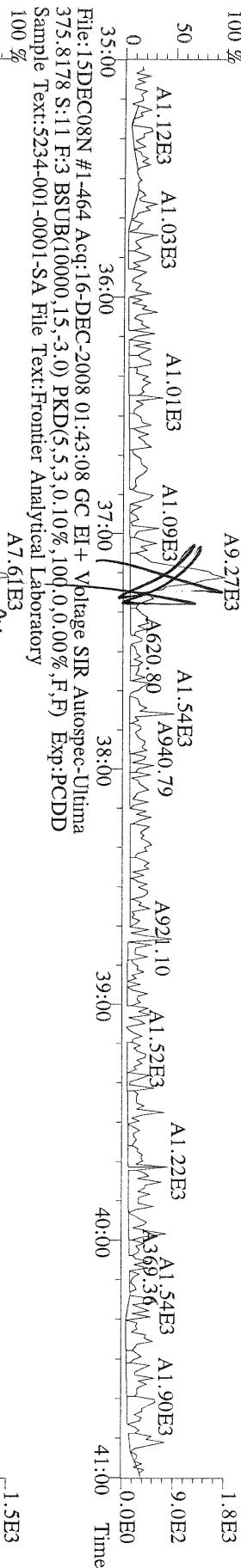
File:15DEC08N #1-425 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:11 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



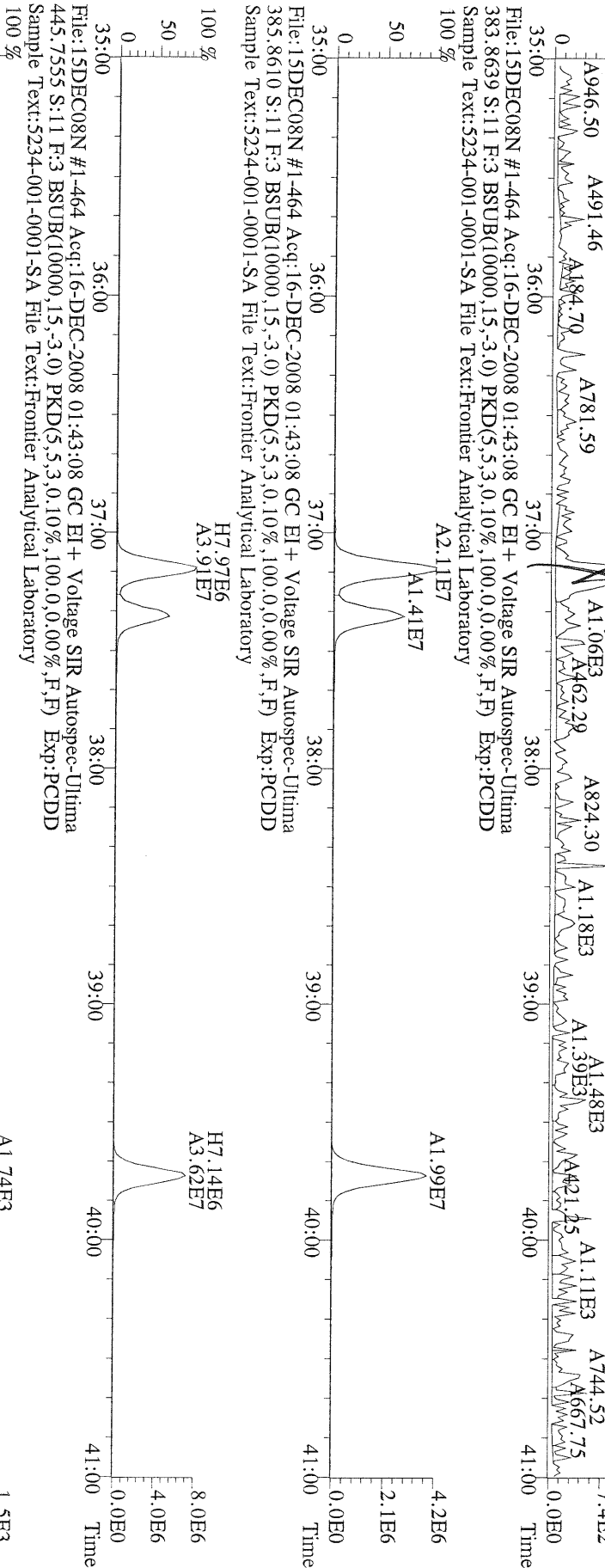
File:15DEC08N #1-425 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
353.8970 S:11 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



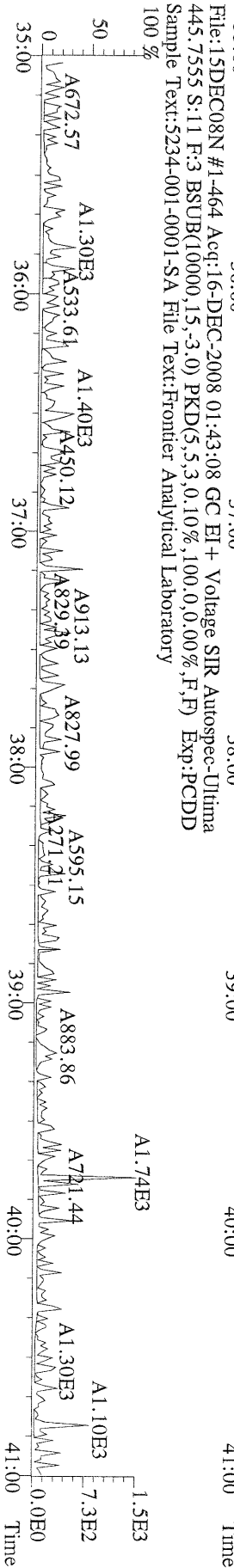
File:15DEC08N #1-464 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



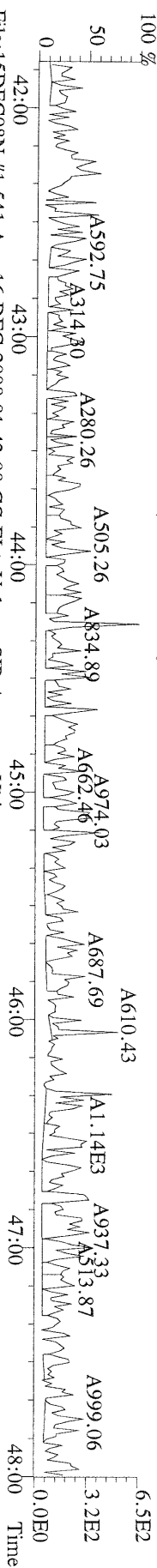
File:15DEC08N #1-464 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Utima
383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



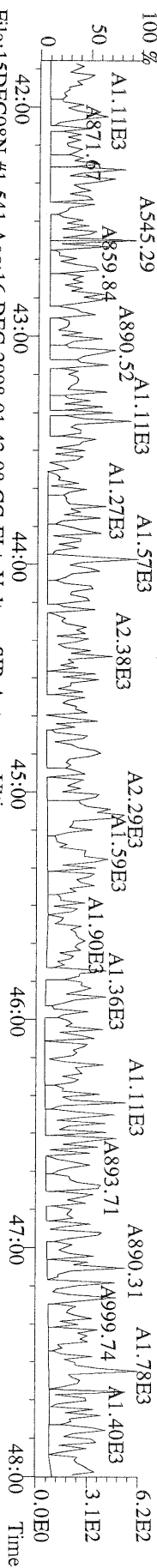
File:15DEC08N #1-464 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Utima
445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



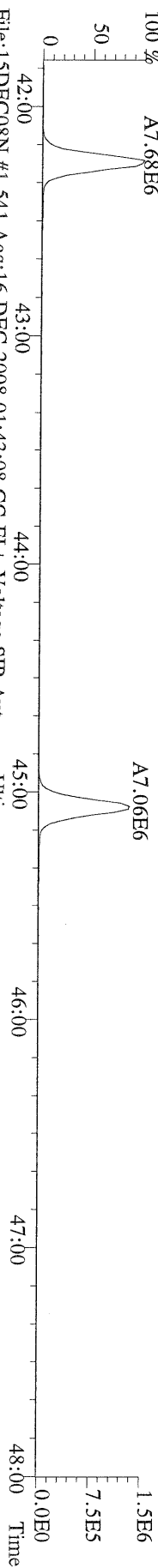
000063 of 000211



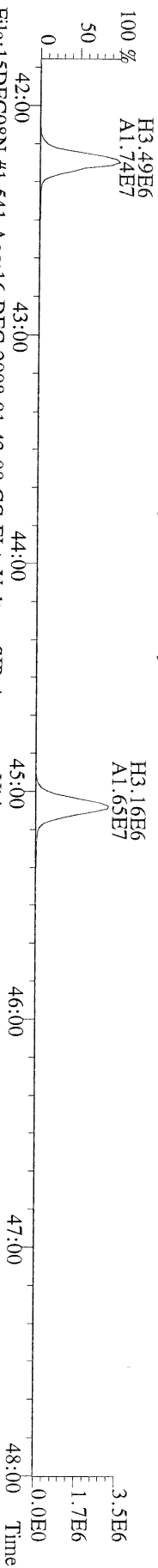
File:15DEC08N#1-541 Acq:16-DEC-2008 01:43:08 GC EI + Voltage SIR Autospec-Ultima
409.7788 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory
100 % AS45.29 A1.1E3 A1.57E3



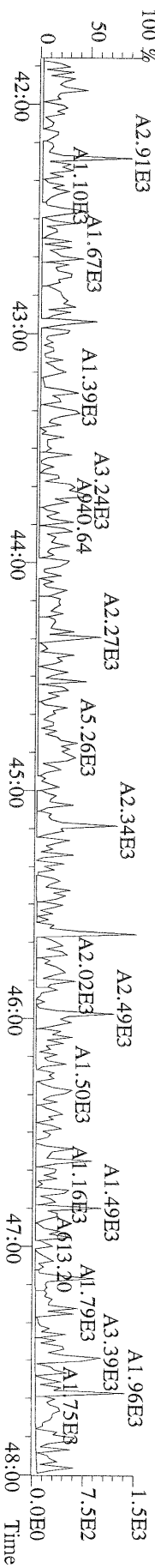
File:15DEC08N #1-541 Acq:16-DEC-2008 01:43:08 GC EI + Voltage SIR Autospec-Ultima
417.8253 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory
100 % A7.68E6 A7.06E6



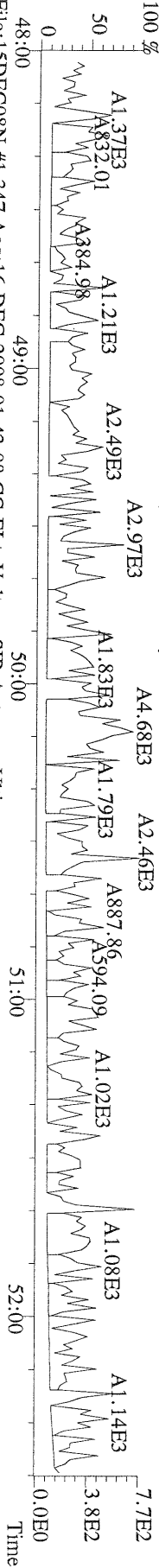
File:15DEC08N#1-541 Acq:16-DEC-2008 01:43:08 GC EI + Voltage SIR Autospec-Ultima
419.8220 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



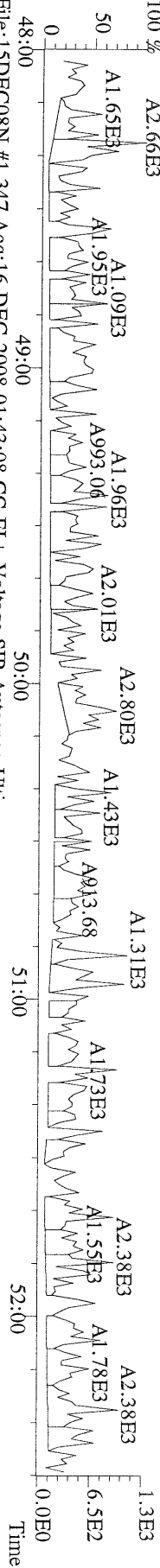
File:15DEC08N #1-541 Acq:16-DEC-2008 01:43:08 GC EI + Voltage SIR Autospec-Ultima
479.7165 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



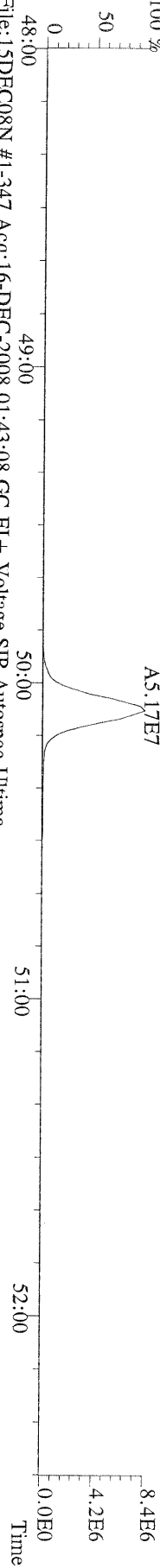
File:15DEC08N #1-347 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



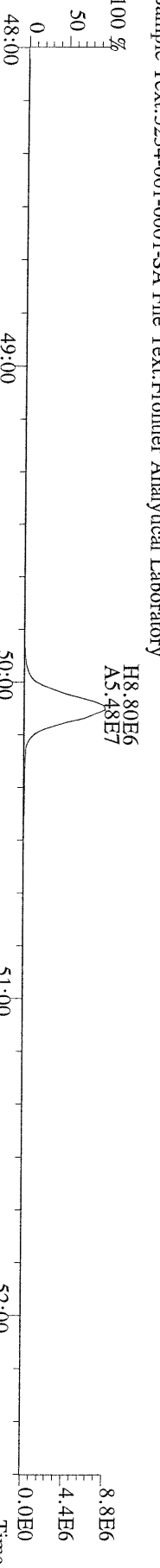
File:15DEC08N #1-347 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



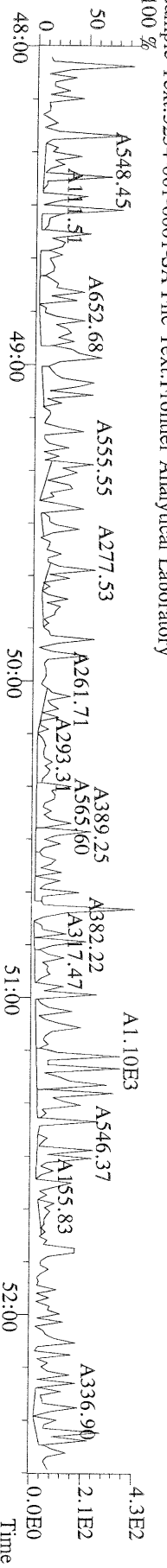
File:15DEC08N #1-347 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



File:15DEC08N #1-347 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory



File:15DEC08N #1-347 Acq:16-DEC-2008 01:43:08 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:5234-001-0001-SA File Text:Frontier Analytical Laboratory




Frontier Analytical Laboratory

Data Filename: 28AUG08M

Analyte: AIRFAL3-8-29-08

Cal: AIRFAL3-8-29-08

	Name	RRF	S. D.	%RSD	S11 RRF#1	S12 RRF#2	S13 RRF#3	S14 RRF#4	S15 RRF#5	S16 RRF#6
	2,3,7,8-TCDD	0.93	0.116	12.5 %	1.08	1.01	0.95	0.95	0.79	0.79
	1,2,3,7,8-PeCDD	1.48	0.149	10.1 %	1.72	1.56	1.48	1.44	1.33	1.33
	1,2,3,4,7,8-HxCDD	1.32	0.110	8.39 %	1.48	1.36	1.36	1.30	1.18	1.22
	1,2,3,6,7,8-HxCDD	1.25	0.144	11.5 %	1.47	1.33	1.27	1.22	1.10	1.08
	1,2,3,7,8,9-HxCDD	1.32	0.134	10.1 %	1.50	1.43	1.34	1.30	1.17	1.18
	1,2,3,4,6,7,8-HpCDD	1.16	0.111	9.57 %	1.32	1.23	1.18	1.16	1.03	1.04
	OCDD	1.24	0.109	8.82 %	1.39	1.31	1.26	1.24	1.11	1.13
	2,3,7,8-TCDF	1.00	0.106	10.5 %	1.12	1.08	1.04	1.02	0.88	0.87
	1,2,3,7,8-PeCDF	0.81	0.0548	6.80 %	0.90	0.83	0.80	0.79	0.74	0.77
	2,3,4,7,8-PeCDF	0.76	0.0580	7.62 %	0.87	0.78	0.76	0.74	0.70	0.72
	1,2,3,4,7,8-HxCDF	1.02	0.0890	8.76 %	1.16	1.04	1.04	1.01	0.92	0.92
	1,2,3,6,7,8-HxCDF	1.05	0.0899	8.56 %	1.19	1.10	1.06	1.03	0.95	0.97
	2,3,4,6,7,8-HxCDF	0.93	0.0768	8.22 %	1.07	0.96	0.93	0.92	0.85	0.88
	1,2,3,7,8,9-HxCDF	0.79	0.0723	9.17 %	0.91	0.83	0.76	0.77	0.71	0.74
	1,2,3,4,6,7,8-HpCDF	1.36	0.104	7.65 %	1.52	1.40	1.39	1.35	1.24	1.25
	1,2,3,4,7,8,9-HpCDF	1.04	0.0634	6.10 %	1.14	1.03	1.03	1.08	0.96	0.99
	OCDF	0.46	0.0345	7.47 %	0.52	0.48	0.46	0.46	0.43	0.43
	13C-2,3,7,8-TCDD	1.44	0.0534	3.70 %	1.39	1.38	1.47	1.46	1.46	1.52
	13C-1,2,3,7,8-PeCDD	0.84	0.0547	6.50 %	0.78	0.79	0.85	0.84	0.85	0.94
	13C-1,2,3,6,7,8-HxCDD	0.97	0.0143	1.48 %	0.96	0.97	1.00	0.97	0.97	0.96
	13C-1,2,3,4,6,7,8-HpCDD	0.94	0.0258	2.73 %	0.92	0.96	0.98	0.95	0.94	0.91
	13C-OCDD	0.65	0.0168	2.60 %	0.64	0.66	0.66	0.63	0.63	0.67
	13C-2,3,7,8-TCDF	1.36	0.0193	1.42 %	1.34	1.38	1.35	1.34	1.37	1.37
	13C-1,2,3,7,8-PeCDF	1.23	0.0499	4.06 %	1.16	1.26	1.21	1.20	1.26	1.30
	13C-1,2,3,6,7,8-HxCDF	1.61	0.0509	3.15 %	1.53	1.60	1.68	1.61	1.66	1.61
	13C-1,2,3,4,6,7,8-HpCDF	1.02	0.0223	2.19 %	1.00	1.03	1.05	0.99	1.01	1.01
	13C-OCDF	1.83	0.0572	3.12 %	1.82	1.85	1.86	1.78	1.76	1.92
	13C-1,2,3,7,8,9-HxCDF	1.99	0.0229	1.15 %	1.96	1.98	1.98	1.98	2.02	2.01
	37Cl-2,3,7,8-TCDD	0.33	0.0101	3.02 %	0.34	0.35	0.32	0.34	0.34	0.32
	13C-1,2,3,4,7,8-HxCDD	1.32	0.0286	2.17 %	1.34	1.31	1.27	1.32	1.33	1.34
	13C-2,3,4,7,8-PeCDF	0.81	0.0416	5.12 %	0.88	0.82	0.81	0.83	0.77	0.77
	13C-1,2,3,4,7,8-HxCDF	1.38	0.0413	2.98 %	1.45	1.37	1.35	1.42	1.35	1.36
	13C-1,2,3,4,7,8,9-HpCDF	0.81	0.0293	3.59 %	0.85	0.81	0.78	0.85	0.80	0.80
	13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-
	13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-	-
	13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-	-
	Total Tetra-Dioxins	0.93	0.116	12.5 %	1.08	1.01	0.95	0.95	0.79	0.79
	Total Penta-Dioxins	1.48	0.149	10.1 %	1.72	1.56	1.48	1.44	1.33	1.33
	Total Hexa-Dioxins	1.29	0.128	9.93 %	1.48	1.37	1.32	1.27	1.15	1.16
	Total Hepta-Dioxins	1.16	0.111	9.57 %	1.32	1.23	1.18	1.16	1.03	1.04
	Total Tetra-Furans	1.00	0.106	10.5 %	1.12	1.08	1.04	1.02	0.88	0.87
1st Fn.	Tot Penta-Furans	0.78	0.0563	7.19 %	0.89	0.80	0.78	0.77	0.72	0.75
	Total Penta-Furans	0.78	0.0563	7.19 %	0.89	0.80	0.78	0.77	0.72	0.75
	Total Hexa-Furans	0.95	0.0812	8.57 %	1.08	0.98	0.95	0.93	0.86	0.88
	Total Hepta-Furans	1.20	0.0814	6.79 %	1.33	1.21	1.21	1.22	1.10	1.12

Analyst: Date: 8/29/08

Run #1 Filename 28AUG08M
Client ID: ST082808M0

S: 11


Acquired: 28-AUG-08 23:01:49

Cal: AIRFAL3-8-29-08

Analyte: AIR

FAL ID: AIR CS0 (061228F)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.25	1.83e+05	0.70 y	27:27	-	1.08 y
2	Unk	1,2,3,7,8-PeCDD	1.25	8.25e+05	1.60 y	33:15	-	1.72 y
3	Unk	1,2,3,4,7,8-HxCDD	1.25	5.60e+05	1.21 y	38:35	-	1.48 y
4	Unk	1,2,3,6,7,8-HxCDD	1.25	5.53e+05	1.26 y	38:45	-	1.47 y
5	Unk	1,2,3,7,8,9-HxCDD	1.25	5.68e+05	1.23 y	39:12	-	1.50 y
6	Unk	1,2,3,4,6,7,8-HpCDD	1.25	4.77e+05	1.00 y	44:09	-	1.32 y
7	Unk	OCDD	2.50	7.00e+05	0.88 y	49:39	-	1.39 y
8	Unk	2,3,7,8-TCDF	0.25	2.96e+05	0.69 y	26:42	-	1.12 y
9	Unk	1,2,3,7,8-PeCDF	1.25	1.03e+06	1.51 y	31:31	-	0.903 y
10	Unk	2,3,4,7,8-PeCDF	1.25	9.94e+05	1.49 y	32:50	-	0.867 y
11	Unk	1,2,3,4,7,8-HxCDF	1.25	7.01e+05	1.18 y	37:11	-	1.16 y
12	Unk	1,2,3,6,7,8-HxCDF	1.25	7.22e+05	1.21 y	37:24	-	1.19 y
13	Unk	2,3,4,6,7,8-HxCDF	1.25	6.47e+05	1.27 y	38:20	-	1.07 y
14	Unk	1,2,3,7,8,9-HxCDF	1.25	5.52e+05	1.21 y	39:45	-	0.913 y
15	Unk	1,2,3,4,6,7,8-HpCDF	1.25	5.98e+05	1.04 y	42:15	-	1.52 y
16	Unk	1,2,3,4,7,8,9-HpCDF	1.25	4.49e+05	1.07 y	45:03	-	1.14 y
17	Unk	OCDF	2.50	7.50e+05	0.86 y	50:01	-	0.521 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	6.81e+07	0.73 y	27:25	-	1.39 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	3.83e+07	1.59 y	33:14	-	0.782 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	3.02e+07	1.28 y	38:44	-	0.957 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.90e+07	1.08 y	44:07	-	0.920 y
22	IS	13C-OCDD	200.00	4.02e+07	0.90 y	49:37	-	0.638 y
23	IS	13C-2,3,7,8-TCDF	100.00	1.06e+08	0.83 y	26:40	-	1.34 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	9.17e+07	1.63 y	31:29	-	1.16 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.84e+07	0.51 y	37:23	-	1.53 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.15e+07	0.44 y	42:14	-	1.000 y
27	IS	13C-OCDF	200.00	1.15e+08	0.93 y	49:60	-	1.82 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	6.18e+07	0.51 y	39:44	-	1.96 y
29	PSS	37Cl-2,3,7,8-TCDD	40.00	9.15e+06		27:26	-	0.336 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	40.00	1.62e+07	1.26 y	38:34	-	1.34 y
31	PSS	13C-2,3,4,7,8-PeCDF	40.00	3.23e+07	1.59 y	32:48	-	0.880 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	40.00	2.80e+07	0.53 y	37:10	-	1.45 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	40.00	1.07e+07	0.46 y	45:01	-	0.846 y
34	RS	13C-1,2,3,4-TCDD	100.00	4.90e+07	0.76 y	26:51	4.90e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	7.91e+07	0.83 y	25:36	7.91e+05	- n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	3.15e+07	1.27 y	39:10	3.15e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.08 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.72 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.48 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.32 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.12 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.885 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.885 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.08 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.33 y

Analyst: 

Date: 8/29/08

Run #2 Filename 28AUG08M S: 12 Acquired: 28-AUG-08 23:57:16 Cal: AIRFAL3-8-29-08
 Client ID: ST082808M1 Analyte: AIR FAL ID: AIR CS1 (061228G)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	0.50	2.59e+05	0.76 y	27:27	-	1.01 y
2	Unk	1,2,3,7,8-PeCDD	2.50	1.15e+06	1.61 y	33:15	-	1.56 y
3	Unk	1,2,3,4,7,8-HxCDD	2.50	7.90e+05	1.22 y	38:35	-	1.36 y
4	Unk	1,2,3,6,7,8-HxCDD	2.50	7.71e+05	1.29 y	38:45	-	1.33 y
5	Unk	1,2,3,7,8,9-HxCDD	2.50	8.29e+05	1.27 y	39:11	-	1.43 y
6	Unk	1,2,3,4,6,7,8-HpCDD	2.50	7.09e+05	0.94 y	44:09	-	1.23 y
7	Unk	OCDD	5.00	1.04e+06	0.93 y	49:38	-	1.31 y
8	Unk	2,3,7,8-TCDF	0.50	4.19e+05	0.72 y	26:42	-	1.08 y
9	Unk	1,2,3,7,8-PeCDF	2.50	1.47e+06	1.49 y	31:31	-	0.827 y
10	Unk	2,3,4,7,8-PeCDF	2.50	1.38e+06	1.53 y	32:50	-	0.778 y
11	Unk	1,2,3,4,7,8-HxCDF	2.50	1.00e+06	1.22 y	37:11	-	1.04 y
12	Unk	1,2,3,6,7,8-HxCDF	2.50	1.06e+06	1.22 y	37:24	-	1.10 y
13	Unk	2,3,4,6,7,8-HxCDF	2.50	9.29e+05	1.24 y	38:20	-	0.964 y
14	Unk	1,2,3,7,8,9-HxCDF	2.50	7.99e+05	1.24 y	39:46	-	0.829 y
15	Unk	1,2,3,4,6,7,8-HpCDF	2.50	8.68e+05	1.04 y	42:15	-	1.40 y
16	Unk	1,2,3,4,7,8,9-HpCDF	2.50	6.41e+05	1.03 y	45:03	-	1.03 y
17	Unk	OCDF	5.00	1.06e+06	0.87 y	50:00	-	0.475 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	5.15e+07	0.75 y	27:26	-	1.38 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.96e+07	1.59 y	33:13	-	0.792 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.33e+07	1.24 y	38:44	-	0.967 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.30e+07	1.10 y	44:07	-	0.958 y
22	IS	13C-OCDD	200.00	3.15e+07	0.92 y	49:38	-	0.655 y
23	IS	13C-2,3,7,8-TCDF	100.00	7.76e+07	0.83 y	26:41	-	1.38 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	7.08e+07	1.63 y	31:30	-	1.26 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.85e+07	0.50 y	37:22	-	1.60 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.49e+07	0.44 y	42:14	-	1.03 y
27	IS	13C-OCDF	200.00	8.91e+07	0.93 y	49:59	-	1.85 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	4.75e+07	0.50 y	39:44	-	1.98 y
29	PSS	37Cl-2,3,7,8-TCDD	60.00	1.08e+07		27:27	-	0.349 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	60.00	1.83e+07	1.31 y	38:34	-	1.31 y
31	PSS	13C-2,3,4,7,8-PeCDF	60.00	3.48e+07	1.59 y	32:49	-	0.818 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	60.00	3.16e+07	0.52 y	37:11	-	1.37 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	60.00	1.21e+07	0.46 y	45:02	-	0.813 y
34	RS	13C-1,2,3,4-TCDD	100.00	3.74e+07	0.77 y	26:52	3.74e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	5.61e+07	0.82 y	25:37	5.61e+05	- n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	2.41e+07	1.27 y	39:11	2.41e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.01 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.56 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.37 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.23 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.08 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.803 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.803 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.983 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.21 y

Analyst: 

Date: 8/29/08

Run #3 Filename 28AUG08M S: 13 Acquired: 29-AUG-08 00:52:43 Cal: AIRFAL3-8-29-08
 Client ID: ST082808M2 Analyte: AIR FAL ID: AIR CS2 (061228H)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	1.00	4.37e+05	0.76 y	27:28	-	0.953	y
2	Unk	1,2,3,7,8-PeCDD	5.00	1.96e+06	1.62 y	33:15	-	1.48	y
3	Unk	1,2,3,4,7,8-HxCDD	5.00	1.43e+06	1.27 y	38:35	-	1.36	y
4	Unk	1,2,3,6,7,8-HxCDD	5.00	1.34e+06	1.24 y	38:44	-	1.27	y
5	Unk	1,2,3,7,8,9-HxCDD	5.00	1.41e+06	1.30 y	39:11	-	1.34	y
6	Unk	1,2,3,4,6,7,8-HpCDD	5.00	1.23e+06	0.99 y	44:08	-	1.18	y
7	Unk	OCDD	10.00	1.76e+06	0.89 y	49:38	-	1.26	y
8	Unk	2,3,7,8-TCDF	1.00	7.33e+05	0.72 y	26:43	-	1.04	y
9	Unk	1,2,3,7,8-PeCDF	5.00	2.51e+06	1.54 y	31:31	-	0.796	y
10	Unk	2,3,4,7,8-PeCDF	5.00	2.38e+06	1.50 y	32:50	-	0.757	y
11	Unk	1,2,3,4,7,8-HxCDF	5.00	1.84e+06	1.28 y	37:12	-	1.04	y
12	Unk	1,2,3,6,7,8-HxCDF	5.00	1.87e+06	1.23 y	37:23	-	1.06	y
13	Unk	2,3,4,6,7,8-HxCDF	5.00	1.64e+06	1.24 y	38:20	-	0.927	y
14	Unk	1,2,3,7,8,9-HxCDF	5.00	1.35e+06	1.25 y	39:45	-	0.763	y
15	Unk	1,2,3,4,6,7,8-HpCDF	5.00	1.54e+06	1.01 y	42:15	-	1.39	y
16	Unk	1,2,3,4,7,8,9-HpCDF	5.00	1.14e+06	1.04 y	45:03	-	1.03	y
17	Unk	OCDF	10.00	1.81e+06	0.90 y	50:02	-	0.460	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.59e+07	0.74 y	27:26	-	1.47	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.65e+07	1.60 y	33:14	-	0.846	y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.10e+07	1.26 y	38:44	-	0.996	y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.07e+07	1.08 y	44:08	-	0.983	y
22	IS	13C-OCDD	200.00	2.79e+07	0.95 y	49:37	-	0.662	y
23	IS	13C-2,3,7,8-TCDF	100.00	7.02e+07	0.81 y	26:40	-	1.35	y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	6.30e+07	1.62 y	31:30	-	1.21	y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.54e+07	0.52 y	37:22	-	1.68	y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.21e+07	0.45 y	42:14	-	1.05	y
27	IS	13C-OCDF	200.00	7.87e+07	0.93 y	49:59	-	1.86	y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	4.17e+07	0.52 y	39:44	-	1.98	y
29	PSS	37Cl-2,3,7,8-TCDD	80.00	1.18e+07		27:27	-	0.322	y
30	PSS	13C-1,2,3,4,7,8-HxCDD	80.00	2.13e+07	1.27 y	38:34	-	1.27	y
31	PSS	13C-2,3,4,7,8-PeCDF	80.00	4.06e+07	1.63 y	32:49	-	0.805	y
32	PSS	13C-1,2,3,4,7,8-HxCDF	80.00	3.83e+07	0.51 y	37:10	-	1.35	y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	80.00	1.38e+07	0.45 y	45:02	-	0.778	y
34	RS	13C-1,2,3,4-TCDD	100.00	3.13e+07	0.76 y	26:51	3.13e+05	-	n
35	RS	13C-1,2,3,4-TCDF	100.00	5.21e+07	0.82 y	25:36	5.21e+05	-	n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	2.11e+07	1.24 y	39:10	2.11e+05	-	n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.953	y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.48	y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.32	y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.18	y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.04	y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.777	y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.777	y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.946	y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.21	y

Analyst: 

Date: 8/29/08

Run #4 Filename 28AUG08M S: 14 Acquired: 29-AUG-08 01:48:05 Cal: AIRFAL3-8-29-08
 Client ID: ST082808M3 Analyte: AIR FAL ID: AIR CS3 (0612281)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	5.00	2.12e+06	0.77 y	27:28	-	0.951	y
2	Unk	1,2,3,7,8-PeCDD	25.00	9.25e+06	1.61 y	33:15	-	1.44	y
3	Unk	1,2,3,4,7,8-HxCDD	25.00	6.68e+06	1.24 y	38:35	-	1.30	y
4	Unk	1,2,3,6,7,8-HxCDD	25.00	6.31e+06	1.25 y	38:45	-	1.22	y
5	Unk	1,2,3,7,8,9-HxCDD	25.00	6.70e+06	1.23 y	39:11	-	1.30	y
6	Unk	1,2,3,4,6,7,8-HpCDD	25.00	5.85e+06	0.99 y	44:09	-	1.16	y
7	Unk	OCDD	50.00	8.20e+06	0.91 y	49:38	-	1.24	y
8	Unk	2,3,7,8-TCDF	5.00	3.51e+06	0.71 y	26:41	-	1.02	y
9	Unk	1,2,3,7,8-PeCDF	25.00	1.21e+07	1.53 y	31:31	-	0.790	y
10	Unk	2,3,4,7,8-PeCDF	25.00	1.14e+07	1.52 y	32:50	-	0.744	y
11	Unk	1,2,3,4,7,8-HxCDF	25.00	8.62e+06	1.25 y	37:12	-	1.01	y
12	Unk	1,2,3,6,7,8-HxCDF	25.00	8.77e+06	1.26 y	37:24	-	1.03	y
13	Unk	2,3,4,6,7,8-HxCDF	25.00	7.80e+06	1.24 y	38:20	-	0.916	y
14	Unk	1,2,3,7,8,9-HxCDF	25.00	6.59e+06	1.25 y	39:46	-	0.774	y
15	Unk	1,2,3,4,6,7,8-HpCDF	25.00	7.09e+06	1.03 y	42:15	-	1.35	y
16	Unk	1,2,3,4,7,8,9-HpCDF	25.00	5.67e+06	1.05 y	45:03	-	1.08	y
17	Unk	OCDF	50.00	8.61e+06	0.91 y	49:60	-	0.457	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.47e+07	0.76 y	27:25	-	1.46	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.57e+07	1.58 y	33:13	-	0.839	y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.06e+07	1.26 y	38:44	-	0.971	y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.01e+07	1.10 y	44:07	-	0.949	y
22	IS	13C-OCDD	200.00	2.65e+07	0.93 y	49:38	-	0.625	y
23	IS	13C-2,3,7,8-TCDF	100.00	6.86e+07	0.84 y	26:40	-	1.34	y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	6.14e+07	1.62 y	31:30	-	1.20	y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.41e+07	0.51 y	37:23	-	1.61	y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.09e+07	0.45 y	42:14	-	0.988	y
27	IS	13C-OCDF	200.00	7.54e+07	0.92 y	49:60	-	1.78	y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	4.19e+07	0.52 y	39:44	-	1.98	y
29	PSS	37Cl-2,3,7,8-TCDD	100.00	1.51e+07		27:28	-	0.339	y
30	PSS	13C-1,2,3,4,7,8-HxCDD	100.00	2.72e+07	1.27 y	38:34	-	1.32	y
31	PSS	13C-2,3,4,7,8-PeCDF	100.00	5.12e+07	1.62 y	32:49	-	0.834	y
32	PSS	13C-1,2,3,4,7,8-HxCDF	100.00	4.84e+07	0.52 y	37:11	-	1.42	y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	100.00	1.79e+07	0.44 y	45:02	-	0.852	y
34	RS	13C-1,2,3,4-TCDD	100.00	3.07e+07	0.77 y	26:51	3.07e+05	-	n
35	RS	13C-1,2,3,4-TCDF	100.00	5.13e+07	0.83 y	25:37	5.13e+05	-	n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	2.12e+07	1.26 y	39:11	2.12e+05	-	n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.951	y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.44	y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.27	y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.16	y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.02	y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.767	y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.767	y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.933	y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.22	y

Analyst: 

Date: 8/29/08

Run #5 Filename 28AUG08M S: 15 Acquired: 29-AUG-08 02:43:28 Cal: AIRFAL3-8-29-08
 Client ID: ST082808M4 Analyte: AIR FAL ID: AIR CS4 (061228J)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDD	50.00	1.75e+07	0.80 y	27:27	-	0.793 y
2	Unk	1,2,3,7,8-PeCDD	250.00	8.57e+07	1.63 y	33:15	-	1.33 y
3	Unk	1,2,3,4,7,8-HxCDD	250.00	6.02e+07	1.28 y	38:35	-	1.18 y
4	Unk	1,2,3,6,7,8-HxCDD	250.00	5.61e+07	1.27 y	38:46	-	1.10 y
5	Unk	1,2,3,7,8,9-HxCDD	250.00	5.94e+07	1.27 y	39:12	-	1.17 y
6	Unk	1,2,3,4,6,7,8-HpCDD	250.00	5.06e+07	0.99 y	44:09	-	1.03 y
7	Unk	OCDD	500.00	7.35e+07	0.90 y	49:39	-	1.11 y
8	Unk	2,3,7,8-TCDF	50.00	2.95e+07	0.70 y	26:42	-	0.878 y
9	Unk	1,2,3,7,8-PeCDF	250.00	1.15e+08	1.57 y	31:32	-	0.745 y
10	Unk	2,3,4,7,8-PeCDF	250.00	1.08e+08	1.54 y	32:50	-	0.703 y
11	Unk	1,2,3,4,7,8-HxCDF	250.00	8.02e+07	1.27 y	37:12	-	0.925 y
12	Unk	1,2,3,6,7,8-HxCDF	250.00	8.24e+07	1.24 y	37:23	-	0.950 y
13	Unk	2,3,4,6,7,8-HxCDF	250.00	7.39e+07	1.26 y	38:20	-	0.853 y
14	Unk	1,2,3,7,8,9-HxCDF	250.00	6.20e+07	1.26 y	39:45	-	0.714 y
15	Unk	1,2,3,4,6,7,8-HpCDF	250.00	6.59e+07	1.03 y	42:16	-	1.24 y
16	Unk	1,2,3,4,7,8,9-HpCDF	250.00	5.10e+07	1.02 y	45:03	-	0.961 y
17	Unk	OCDF	500.00	7.96e+07	0.91 y	50:00	-	0.431 y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.41e+07	0.77 y	27:26	-	1.46 y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	2.57e+07	1.62 y	33:14	-	0.850 y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.04e+07	1.26 y	38:44	-	0.974 y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	1.96e+07	1.09 y	44:07	-	0.939 y
22	IS	13C-OCDD	200.00	2.65e+07	0.92 y	49:38	-	0.634 y
23	IS	13C-2,3,7,8-TCDF	100.00	6.72e+07	0.82 y	26:41	-	1.37 y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	6.17e+07	1.63 y	31:30	-	1.26 y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	3.47e+07	0.52 y	37:23	-	1.66 y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.12e+07	0.44 y	42:14	-	1.01 y
27	IS	13C-OCDF	200.00	7.38e+07	0.93 y	50:00	-	1.76 y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	4.22e+07	0.53 y	39:44	-	2.02 y
29	PSS	37Cl-2,3,7,8-TCDD	120.00	1.77e+07		27:27	-	0.335 y
30	PSS	13C-1,2,3,4,7,8-HxCDD	120.00	3.24e+07	1.28 y	38:34	-	1.33 y
31	PSS	13C-2,3,4,7,8-PeCDF	120.00	5.72e+07	1.63 y	32:48	-	0.773 y
32	PSS	13C-1,2,3,4,7,8-HxCDF	120.00	5.64e+07	0.52 y	37:10	-	1.35 y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	120.00	2.04e+07	0.45 y	45:02	-	0.802 y
34	RS	13C-1,2,3,4-TCDD	100.00	3.02e+07	0.77 y	26:51	3.02e+05	- n
35	RS	13C-1,2,3,4-TCDF	100.00	4.92e+07	0.83 y	25:36	4.92e+05	- n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	2.09e+07	1.27 y	39:10	2.09e+05	- n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.793 y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.33 y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.15 y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.03 y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	0.878 y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.724 y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.724 y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.860 y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.10 y

Analyst: 

Date: 8/29/08

Run #6 Filename 28AUG08M S: 16 Acquired: 29-AUG-08 03:38:57 Cal: AIRFAL3-8-29-08
 Client ID: ST082808M5 Analyte: AIRFAL3-8-29-08 FAL ID: AIR CS5 (061228K)

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDD	100.00	3.89e+07	0.78 y	27:25	-	0.789	y
2	Unk	1,2,3,7,8-PeCDD	500.00	2.01e+08	1.64 y	33:15	-	1.33	y
3	Unk	1,2,3,4,7,8-HxCDD	500.00	1.47e+08	1.29 y	38:35	-	1.22	y
4	Unk	1,2,3,6,7,8-HxCDD	500.00	1.31e+08	1.30 y	38:46	-	1.08	y
5	Unk	1,2,3,7,8,9-HxCDD	500.00	1.43e+08	1.32 y	39:12	-	1.18	y
6	Unk	1,2,3,4,6,7,8-HpCDD	500.00	1.19e+08	0.99 y	44:09	-	1.04	y
7	Unk	OCDD	1000.00	1.90e+08	0.91 y	49:40	-	1.13	y
8	Unk	2,3,7,8-TCDF	100.00	6.50e+07	0.72 y	26:40	-	0.870	y
9	Unk	1,2,3,7,8-PeCDF	500.00	2.74e+08	1.55 y	31:31	-	0.773	y
10	Unk	2,3,4,7,8-PeCDF	500.00	2.55e+08	1.55 y	32:50	-	0.721	y
11	Unk	1,2,3,4,7,8-HxCDF	500.00	1.87e+08	1.24 y	37:12	-	0.919	y
12	Unk	1,2,3,6,7,8-HxCDF	500.00	1.97e+08	1.24 y	37:25	-	0.969	y
13	Unk	2,3,4,6,7,8-HxCDF	500.00	1.79e+08	1.25 y	38:20	-	0.879	y
14	Unk	1,2,3,7,8,9-HxCDF	500.00	1.50e+08	1.27 y	39:46	-	0.737	y
15	Unk	1,2,3,4,6,7,8-HpCDF	500.00	1.60e+08	1.03 y	42:16	-	1.25	y
16	Unk	1,2,3,4,7,8,9-HpCDF	500.00	1.27e+08	1.04 y	45:03	-	0.993	y
17	Unk	OCDF	1000.00	2.06e+08	0.90 y	50:02	-	0.426	y
18	IS/RT	13C-2,3,7,8-TCDD	100.00	4.93e+07	0.75 y	27:24	-	1.52	y
19	IS	13C-1,2,3,7,8-PeCDD	100.00	3.03e+07	1.62 y	33:13	-	0.936	y
20	IS	13C-1,2,3,6,7,8-HxCDD	100.00	2.42e+07	1.26 y	38:44	-	0.957	y
21	IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.30e+07	1.09 y	44:08	-	0.913	y
22	IS	13C-OCDD	200.00	3.37e+07	0.93 y	49:38	-	0.667	y
23	IS	13C-2,3,7,8-TCDF	100.00	7.47e+07	0.82 y	26:39	-	1.37	y
24	IS	13C-1,2,3,7,8-PeCDF	100.00	7.08e+07	1.63 y	31:31	-	1.30	y
25	IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.06e+07	0.51 y	37:23	-	1.61	y
26	IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	2.56e+07	0.46 y	42:14	-	1.01	y
27	IS	13C-OCDF	200.00	9.68e+07	0.92 y	50:01	-	1.92	y
28	C/Up	13C-1,2,3,7,8,9-HxCDF	100.00	5.08e+07	0.51 y	39:45	-	2.01	y
29	PSS	37Cl-2,3,7,8-TCDD	140.00	2.23e+07		27:25	-	0.324	y
30	PSS	13C-1,2,3,4,7,8-HxCDD	140.00	4.54e+07	1.28 y	38:34	-	1.34	y
31	PSS	13C-2,3,4,7,8-PeCDF	140.00	7.61e+07	1.63 y	32:49	-	0.768	y
32	PSS	13C-1,2,3,4,7,8-HxCDF	140.00	7.74e+07	0.52 y	37:11	-	1.36	y
33	PSS	13C-1,2,3,4,7,8,9-HpCDF	140.00	2.86e+07	0.44 y	45:02	-	0.796	y
34	RS	13C-1,2,3,4-TCDD	100.00	3.24e+07	0.76 y	26:50	3.24e+05	-	n
35	RS	13C-1,2,3,4-TCDF	100.00	5.46e+07	0.83 y	25:35	5.46e+05	-	n
36	RS	13C-1,2,3,7,8,9-HxCDD	100.00	2.52e+07	1.30 y	39:11	2.52e+05	-	n
37	Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	0.789	y
38	Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.33	y
39	Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.16	y
40	Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.04	y
41	Tot	Total Tetra-Furans	0.00	-	- n	-	-	0.870	y
42	Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.747	y
43	Tot	Total Penta-Furans	0.00	-	- n	-	-	0.747	y
44	Tot	Total Hexa-Furans	0.00	-	- n	-	-	0.876	y
45	Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.12	y

Analyst: AC

Date: 8/29/08

AIR FORM 3A
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3


GC Column ID: DB5

CS0 Data Filename: 28AUG08M S11 CS3 Data Filename: 28AUG08M S14

CS1 Data Filename: 28AUG08M S12 CS4 Data Filename: 28AUG08M S15

CS2 Data Filename: 28AUG08M S13 CS5 Data Filename: 28AUG08M S16

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
NATIVE ANALYTES								
2,3,7,8-TCDD	1.08	1.01	0.95	0.95	0.79	0.79	0.93	12.5
1,2,3,7,8-PeCDD	1.72	1.56	1.48	1.44	1.33	1.33	1.48	10.1
1,2,3,4,7,8-HxCDD	1.48	1.36	1.36	1.30	1.18	1.22	1.32	8.39
1,2,3,6,7,8-HxCDD	1.47	1.33	1.27	1.22	1.10	1.08	1.25	11.5
1,2,3,7,8,9-HxCDD	1.50	1.43	1.34	1.30	1.17	1.18	1.32	10.1
1,2,3,4,6,7,8-HpCDD	1.32	1.23	1.18	1.16	1.03	1.04	1.16	9.57
OCDD	1.39	1.31	1.26	1.24	1.11	1.13	1.24	8.82
2,3,7,8-TCDF	1.12	1.08	1.04	1.02	0.88	0.87	1.00	10.5
1,2,3,7,8-PeCDF	0.90	0.83	0.80	0.79	0.74	0.77	0.81	6.80
2,3,4,7,8-PeCDF	0.87	0.78	0.76	0.74	0.70	0.72	0.76	7.62
1,2,3,4,7,8-HxCDF	1.16	1.04	1.04	1.01	0.92	0.92	1.02	8.76
1,2,3,6,7,8-HxCDF	1.19	1.10	1.06	1.03	0.95	0.97	1.05	8.56
2,3,4,6,7,8-HxCDF	1.07	0.96	0.93	0.92	0.85	0.88	0.93	8.22
1,2,3,7,8,9-HxCDF	0.91	0.83	0.76	0.77	0.71	0.74	0.79	9.17
1,2,3,4,6,7,8-HpCDF	1.52	1.40	1.39	1.35	1.24	1.25	1.36	7.65
1,2,3,4,7,8,9-HpCDF	1.14	1.03	1.03	1.08	0.96	0.99	1.04	6.10
OCDF	0.52	0.48	0.46	0.46	0.43	0.43	0.46	7.47

Analyst: Date: 8/29/08

AIR FORM 3B
PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 28AUG08M S11 CS4 Data Filename: 28AUG08M S14

CS1 Data Filename: 28AUG08M S12 CS4 Data Filename: 28AUG08M S15

CS2 Data Filename: 28AUG08M S13 CS5 Data Filename: 28AUG08M S16

	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
INTERNAL STANDARDS								
13C-2,3,7,8-TCDD	1.39	1.38	1.47	1.46	1.46	1.52	1.44	3.70
13C-1,2,3,7,8-PeCDD	0.78	0.79	0.85	0.84	0.85	0.94	0.84	6.50
13C-1,2,3,6,7,8-HxCDD	0.96	0.97	1.00	0.97	0.97	0.96	0.97	1.48
13C-1,2,3,4,6,7,8-HpCDD	0.92	0.96	0.98	0.95	0.94	0.91	0.94	2.73
13C-OCDD	0.64	0.66	0.66	0.63	0.63	0.67	0.65	2.60
13C-2,3,7,8-TCDF	1.34	1.38	1.35	1.34	1.37	1.37	1.36	1.42
13C-1,2,3,7,8-PeCDF	1.16	1.26	1.21	1.20	1.26	1.30	1.23	4.06
13C-1,2,3,6,7,8-HxCDF	1.53	1.60	1.68	1.61	1.66	1.61	1.61	3.15
13C-1,2,3,4,6,7,8-HpCDF	1.00	1.03	1.05	0.99	1.01	1.01	1.02	2.19
13C-OCDF	1.82	1.85	1.86	1.78	1.76	1.92	1.83	3.12
CLEANUP STANDARD								
13C-1,2,3,7,8,9-HxCDF	1.96	1.98	1.98	1.98	2.02	2.01	1.99	1.15
PRE-SPIKE STANDARDS								
37Cl-2,3,7,8-TCDD	0.34	0.35	0.32	0.34	0.34	0.32	0.33	3.02
13C-1,2,3,4,7,8-HxCDD	1.34	1.31	1.27	1.32	1.33	1.34	1.32	2.17
13C-2,3,4,7,8-PeCDF	0.88	0.82	0.81	0.83	0.77	0.77	0.81	5.12
13C-1,2,3,4,7,8-HxCDF	1.45	1.37	1.35	1.42	1.35	1.36	1.38	2.98
13C-1,2,3,4,7,8,9-HpCDF	0.85	0.81	0.78	0.85	0.80	0.80	0.81	3.59

Analyst: 

Date: 8/29/09

AIR FORM 3C
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3


GC Column ID: DB5

CS0 Data Filename: 28AUG08M S11 CS3 Data Filename: 28AUG08M S14

CS1 Data Filename: 28AUG08M S12 CS4 Data Filename: 28AUG08M S15

CS2 Data Filename: 28AUG08M S13 CS5 Data Filename: 28AUG08M S16

	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
NATIVE ANALYTES								
2,3,7,8-TCDD	M/M+2	0.70	0.76	0.76	0.77	0.80	0.78	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.60	1.61	1.62	1.61	1.63	1.64	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.21	1.22	1.27	1.24	1.28	1.29	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.29	1.24	1.25	1.27	1.30	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.27	1.30	1.23	1.27	1.32	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.00	0.94	0.99	0.99	0.99	0.99	0.88-1.20
OCDD	M+2/M+4	0.88	0.93	0.89	0.91	0.90	0.91	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.69	0.72	0.72	0.71	0.70	0.72	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.51	1.49	1.54	1.53	1.57	1.55	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.49	1.53	1.50	1.52	1.54	1.55	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.18	1.22	1.28	1.25	1.27	1.24	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.21	1.22	1.23	1.26	1.24	1.24	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.24	1.24	1.24	1.26	1.25	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.21	1.24	1.25	1.25	1.26	1.27	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	1.04	1.01	1.03	1.03	1.03	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	1.03	1.04	1.05	1.02	1.04	0.88-1.20
OCDF	M+2/M+4	0.86	0.87	0.90	0.91	0.91	0.90	0.76-1.02

Analyst: Date: 8/29/08

AIR FORM 3D
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 28AUG08M S11 CS3 Data Filename: 28AUG08M S14

CS1 Data Filename: 28AUG08M S12 CS4 Data Filename: 28AUG08M S15

CS2 Data Filename: 28AUG08M S13 CS5 Data Filename: 28AUG08M S16

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	0.73	0.75	0.74	0.76	0.77	0.75	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.59	1.60	1.58	1.62	1.62	1.32-1.78
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.24	1.26	1.26	1.26	1.26	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	1.10	1.08	1.10	1.09	1.09	0.88-1.20
13C-OCDD	M+2/M+4	0.90	0.92	0.95	0.93	0.92	0.93	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.83	0.83	0.81	0.84	0.82	0.82	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.63	1.63	1.62	1.62	1.63	1.63	1.32-1.78
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.50	0.52	0.51	0.52	0.51	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.44	0.45	0.45	0.44	0.46	0.37-0.51
13C-OCDF	M+2/M+4	0.93	0.93	0.93	0.92	0.93	0.92	0.76-1.02

CLEANUP STANDARD

13C-1,2,3,7,8,9-HxCDF	M/M+2	0.51	0.50	0.52	0.52	0.53	0.51
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PRE-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	1.26	1.31	1.27	1.27	1.28	1.28	1.05-1.43
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.59	1.63	1.62	1.63	1.63	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.53	0.52	0.51	0.52	0.52	0.52	0.43-0.59
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.46	0.46	0.45	0.44	0.45	0.44	0.37-0.51

Analyst: 

Date: 8/29/08

USEPA - ITD

AIR FORM 4A
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 28AUG08M Sam:14

Analysis Date: 29-AUG-08 01:48:05

	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	0.77	0.65-0.89	y	5.12	3.75 - 6.25
1,2,3,7,8-PeCDD	M+2/M+4	1.61	1.32-1.78	y	24.3	18.7 - 31.2
1,2,3,4,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	24.6	18.7 - 31.2
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	24.6	18.7 - 31.2
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	24.7	18.7 - 31.2
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.99	0.88-1.20	y	25.0	18.7 - 31.2
OCDD	M+2/M+4	0.91	0.76-1.02	y	49.9	37.5 - 62.5
2,3,7,8-TCDF	M/M+2	0.71	0.65-0.89	y	5.10	3.75 - 6.25
1,2,3,7,8-PeCDF	M+2/M+4	1.53	1.32-1.78	y	24.5	18.7 - 31.2
2,3,4,7,8-PeCDF	M+2/M+4	1.52	1.32-1.78	y	24.4	18.7 - 31.2
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	24.9	18.7 - 31.2
1,2,3,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	24.5	18.7 - 31.2
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	24.5	18.7 - 31.2
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.05-1.43	y	24.5	18.7 - 31.2
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	24.9	18.7 - 31.2
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	26.1	18.7 - 31.2
OCDF	M+2/M+4	0.91	0.76-1.02	y	49.5	35.0 - 65.0

Analyst: Date: 8/29/08

USEPA - ITD

AIR FORM 4B
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 28AUG08M

Sam:14

Analysis Date: 29-AUG-08 01:48:05

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	0.76	0.65-0.89	y	101	75.0 - 125
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.32-1.78	y	99.8	70.0 - 130
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	100	75.0 - 125
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.10	0.88-1.20	y	101	70.0 - 130
13C-OCDD	M+2/M+4	0.93	0.76-1.02	y	193	140 - 260
13C-2,3,7,8-TCDF	M/M+2	0.84	0.65-0.89	y	98.7	70.0 - 130
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	97.4	70.0 - 130
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	99.4	70.0 - 130
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37-0.51	y	97.1	70.0 - 130
13C-OCDF	M+2/M+4	0.92	0.76-1.02	y	194	140 - 260
CLEANUP SURROGATE						
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	99.5	75.0 - 125
PRE-SPIKE SURROGATE						
37Cl-2,3,7,8-TCDD					101	75.0 - 125
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	100	75.0 - 125
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.62	1.32-1.78	y	103	75.0 - 125
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	103	75.0 - 125
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	105	75.0 - 125

Analyst: Date: 8/29/08

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: 8/8/08
RT Window Data Filename: 28AUG08M Sam:14 Analysis Date: 29-AUG-08 Time: 01:48:05
DB-5 IS Data Filename: 28AUG08M Sam:14 Analysis Date: 29-AUG-08 Time: 01:48:05
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)	28:22	1,2,8,9-TCDF (L)	28:35
1,2,4,7,9-PeCDD (F)	30:17	1,3,4,6,8-PeCDF (F)	28:28
1,2,3,8,9-PeCDD (L)	33:49	1,2,3,8,9-PeCDF (L)	34:14
1,2,4,6,7,9-HxCDD (F)	36:09	1,2,3,4,6,8-HxCDF (F)	35:16
1,2,3,7,8,9-HxCDD (L)	39:11	1,2,3,7,8,9-HxCDF (L)	39:46
1,2,3,4,6,7,9-HpCDD (F)	42:46	1,2,3,4,6,7,8-HpCDF (F)	42:15
1,2,3,4,6,7,8-HpCDD (L)	44:09	1,2,3,4,7,8,9-HpCDF (L)	45:03

(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: 8/29/08

Results:

GC Column: DB5

Amount: 1.000

NATO 1989 Tox: 49.3

WHO 1998 Tox: 61.4

	Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
	2,3,7,8-TCDD	2.12e+06	0.77 y	27:28	0.93	5.12		2.50	-	*	
	1,2,3,7,8-PeCDD	9.25e+06	1.61 y	33:15	1.48	24.3		2.50	-	*	
	1,2,3,4,7,8-HxCDD	6.68e+06	1.24 y	38:35	1.32	24.6		2.50	-	*	
	1,2,3,6,7,8-HxCDD	6.31e+06	1.25 y	38:45	1.25	24.6		2.50	-	*	
	1,2,3,7,8,9-HxCDD	6.70e+06	1.23 y	39:11	1.32	24.7		2.50	-	*	
	1,2,3,4,6,7,8-HpCDD	5.85e+06	0.99 y	44:09	1.16	25.0		2.50	-	*	
	OCDD	8.20e+06	0.91 y	49:38	1.24	49.9		2.50	-	*	
	2,3,7,8-TCDF	3.51e+06	0.71 y	26:41	1.00	5.10		2.50	-	*	
	1,2,3,7,8-PeCDF	1.21e+07	1.53 y	31:31	0.81	24.5		2.50	-	*	
	2,3,4,7,8-PeCDF	1.14e+07	1.52 y	32:50	0.76	24.4		2.50	-	*	
	1,2,3,4,7,8-HxCDF	8.62e+06	1.25 y	37:12	1.02	24.9		2.50	-	*	
	1,2,3,6,7,8-HxCDF	8.77e+06	1.26 y	37:24	1.05	24.5		2.50	-	*	
	2,3,4,6,7,8-HxCDF	7.80e+06	1.24 y	38:20	0.93	24.5		2.50	-	*	
	1,2,3,7,8,9-HxCDF	6.59e+06	1.25 y	39:46	0.79	24.5		2.50	-	*	
	1,2,3,4,6,7,8-HpCDF	7.09e+06	1.03 y	42:15	1.36	24.9		2.50	-	*	
	1,2,3,4,7,8,9-HpCDF	5.67e+06	1.05 y	45:03	1.04	26.1		2.50	-	*	
	OCDF	8.61e+06	0.91 y	49:60	0.46	49.5		2.50	-	*	
											Rec
	13C-2,3,7,8-TCDD	4.47e+07	0.76 y	27:25	1.44	101					101
	13C-1,2,3,7,8-PeCDD	2.57e+07	1.58 y	33:13	0.84	99.8					99.8
	13C-1,2,3,6,7,8-HxCDD	2.06e+07	1.26 y	38:44	0.97	100					100
	13C-1,2,3,4,6,7,8-HpCDD	2.01e+07	1.10 y	44:07	0.94	101					101
	13C-OCDD	2.65e+07	0.93 y	49:38	0.65	193					96.7
	13C-2,3,7,8-TCDF	6.86e+07	0.84 y	26:40	1.36	98.7					98.7
	13C-1,2,3,7,8-PeCDF	6.14e+07	1.62 y	31:30	1.23	97.4					97.4
	13C-1,2,3,6,7,8-HxCDF	3.41e+07	0.51 y	37:23	1.61	99.4					99.4
	13C-1,2,3,4,6,7,8-HpCDF	2.09e+07	0.45 y	42:14	1.02	97.1					97.1
	13C-OCDF	7.54e+07	0.92 y	49:60	1.83	194					97.0
	13C-1,2,3,7,8,9-HxCDF	4.19e+07	0.52 y	39:44	1.99	99.5					99.5
	37Cl-2,3,7,8-TCDD	1.51e+07		27:28	0.33	101					101
	13C-1,2,3,4,7,8-HxCDD	2.72e+07	1.27 y	38:34	1.32	100					100
	13C-2,3,4,7,8-PeCDF	5.12e+07	1.62 y	32:49	0.81	103					103
	13C-1,2,3,4,7,8-HxCDF	4.84e+07	0.52 y	37:11	1.38	103					103
	13C-1,2,3,4,7,8,9-HpCDF	1.79e+07	0.44 y	45:02	0.81	105					105
	13C-1,2,3,4-TCDD	3.07e+07	0.77 y	26:51	-	87.2					
	13C-1,2,3,4-TCDF	5.13e+07	0.83 y	25:37	-	89.9					
	13C-1,2,3,7,8,9-HxCDD	2.12e+07	1.26 y	39:11	-	88.4					
								Fac	Noise	DL	#Hom
	Total Tetra-Dioxins	9.20e+06		23:14	0.93	22.2		2.50	-	*	26
	Total Penta-Dioxins	2.35e+07		30:17	1.48	61.7		2.50	-	*	19
	Total Hexa-Dioxins	2.77e+07		36:09	1.29	104		2.50	-	*	27
	Total Hepta-Dioxins	1.21e+07		42:14	1.16	51.7		2.50	-	*	24
	Total Tetra-Furans	1.31e+07		23:08	1.00	19.0		2.50	-	*	26
1st Fn.	Tot Penta-Furans	8.84e+06		28:28	0.78	18.3		2.50	-	*	4
	Total Penta-Furans	3.23e+07		30:12	0.78	67.0		2.50	-	*	17
	Total Hexa-Furans	4.14e+07		35:16	0.95	128		2.50	-	*	20
	Total Hepta-Furans	1.31e+07		42:15	1.20	52.5		2.50	-	*	23
											PeCDF
											85.3

Analyst:

Date:

Frontier Analytical Laboratory - Acquisition Log

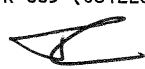
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Instrument: FAL3

GC: DB5

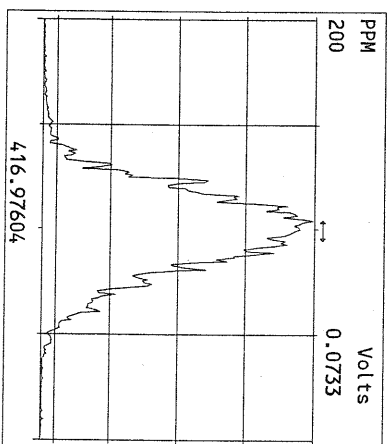
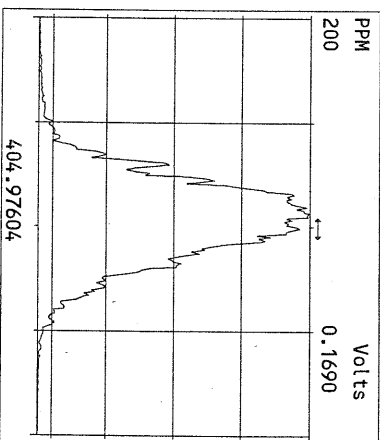
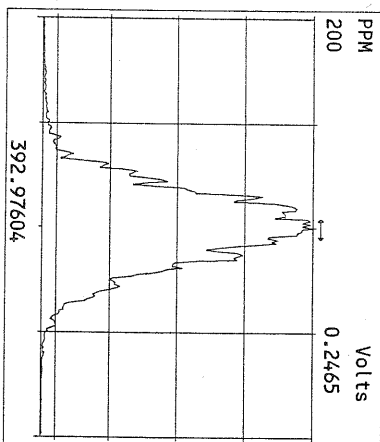
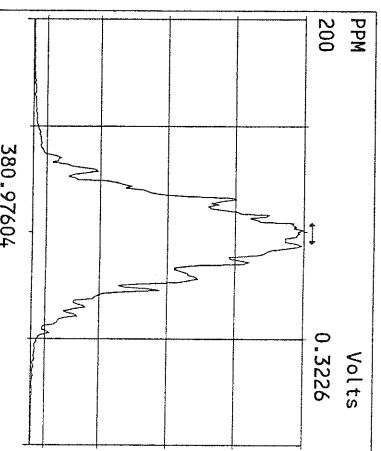
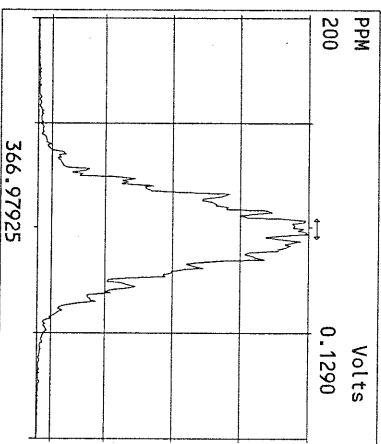
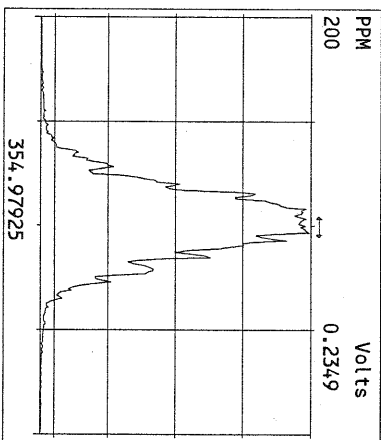
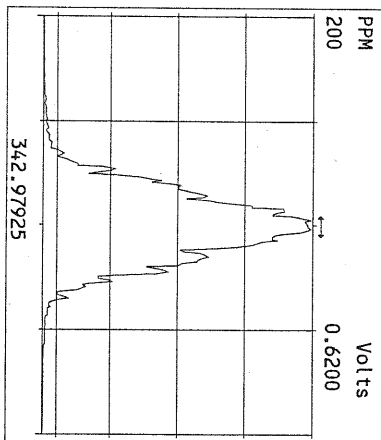
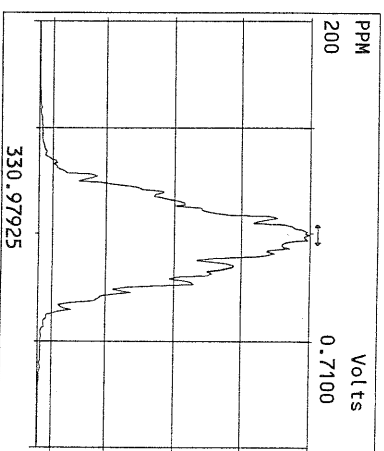
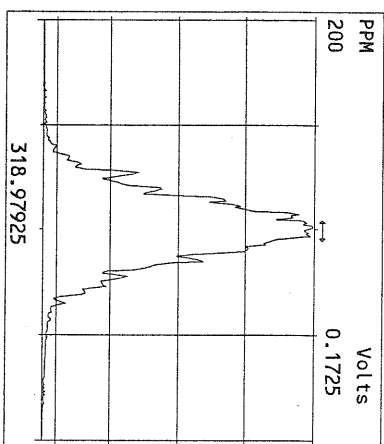
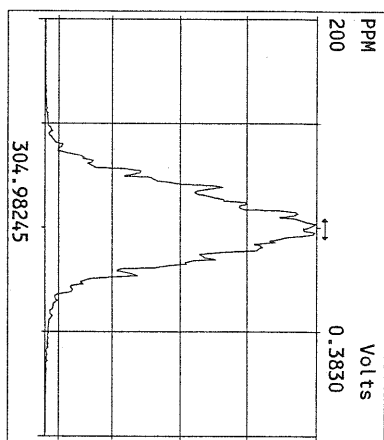
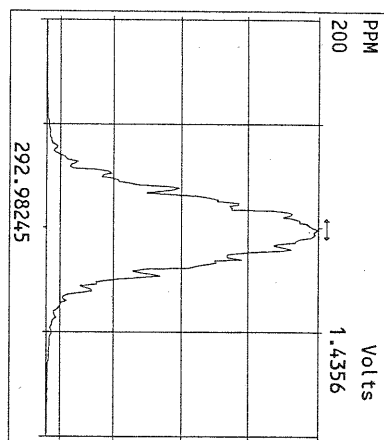
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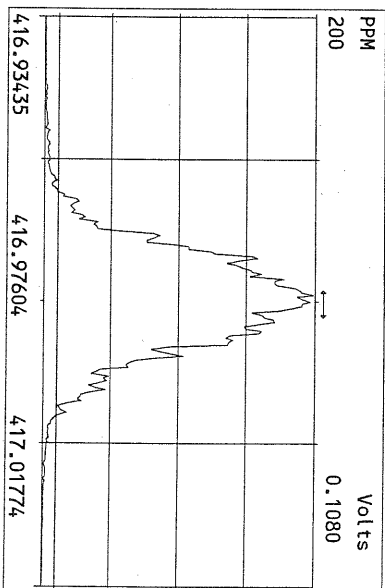
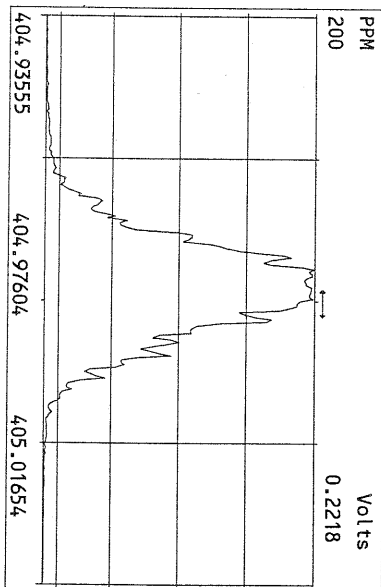
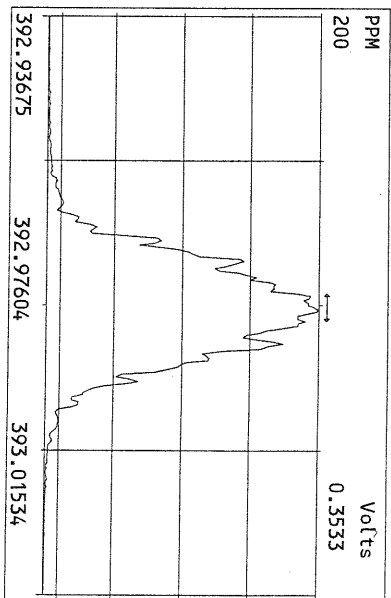
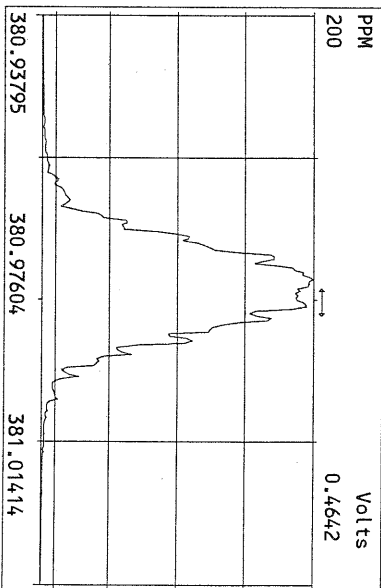
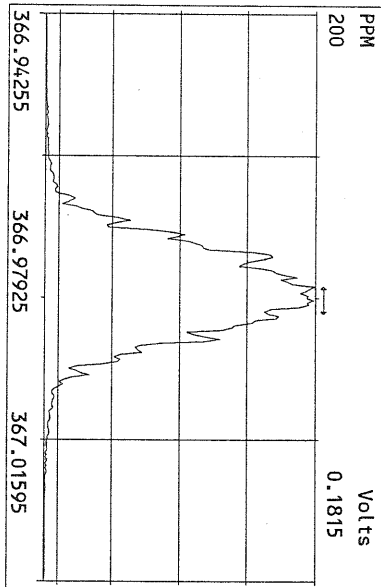
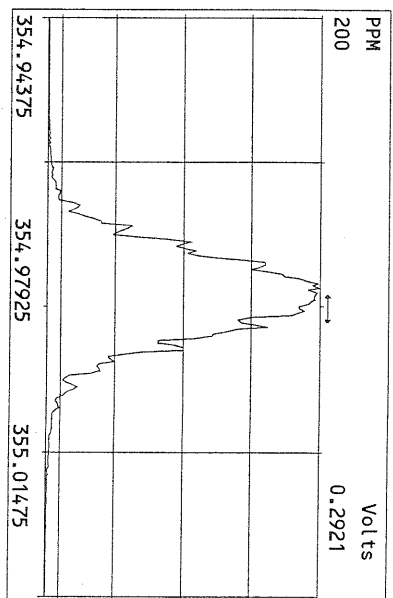
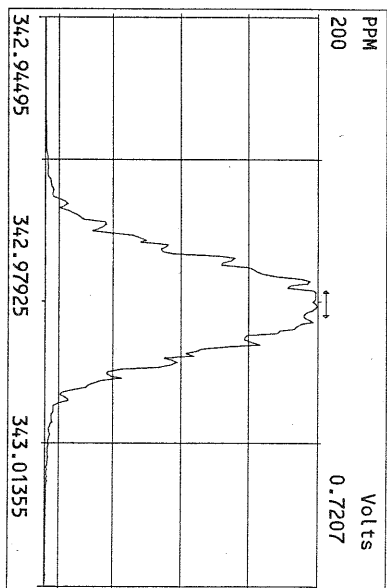
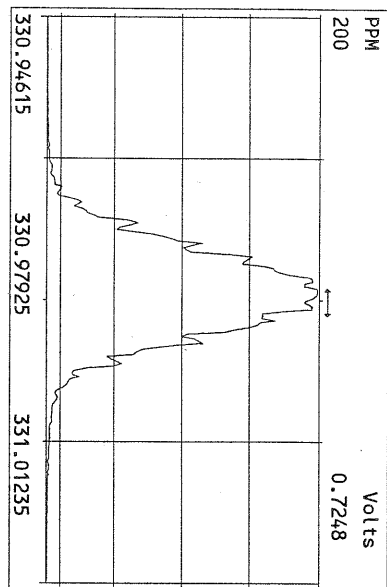
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28AUG08M	3	1505-001-0001-MB	Method Blank	28-AUG-08 15:38:22	ST082808M1	ST082808M2	TC
28AUG08M	4	5058-001-0001-SA	Influent	28-AUG-08 16:33:49	ST082808M1	ST082808M2	TC
28AUG08M	5	5059-002-0001-SA	2808230188	28-AUG-08 17:29:16	ST082808M1	ST082808M2	TC
28AUG08M	6	5059-003-0001-SA	2808230192	28-AUG-08 18:24:43	ST082808M1	ST082808M2	TC
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28AUG08M	8	SB082808M1	Solvent Blank	28-AUG-08 20:15:32	ST082808M1	ST082808M2	TC
28AUG08M	9	ST082808M2	1613 CS3 (071005J)	28-AUG-08 21:10:55	ST082808M1	ST082808M2	TC
28AUG08M	10	SB082808M2	Solvent Blank	28-AUG-08 22:06:23	ST082808M1	ST082808M2	TC
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28AUG08M	14	ST082808M3	AIR CS3 (061228I)	29-AUG-08 01:48:05	NA	NA	TC
28AUG08M	15	ST082808M4	AIR CS4 (061228J)	29-AUG-08 02:43:28	NA	NA	TC
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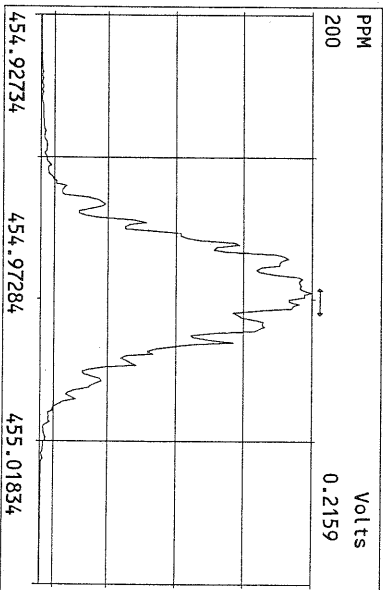
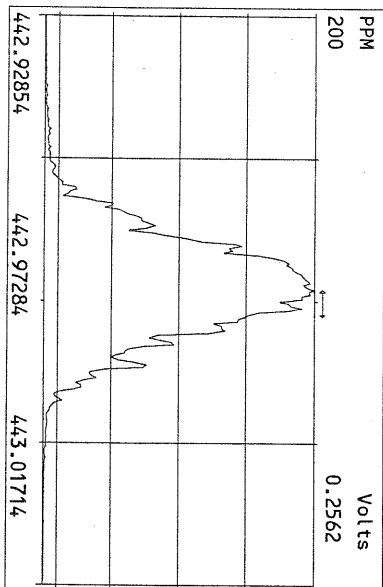
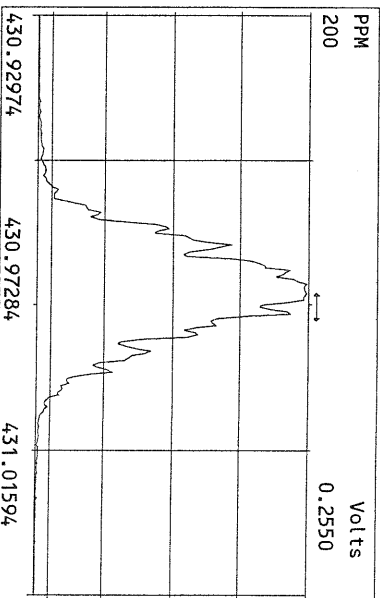
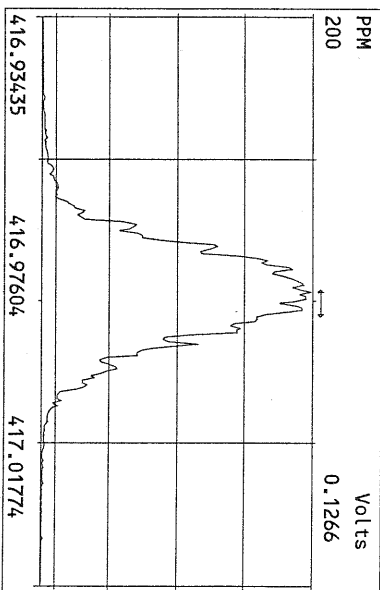
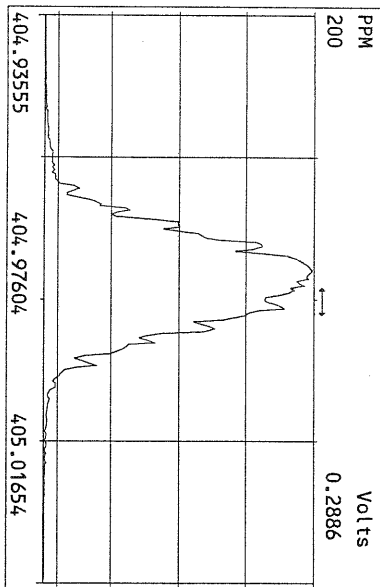
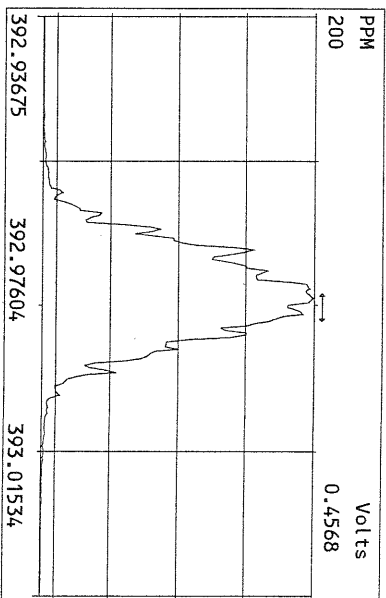
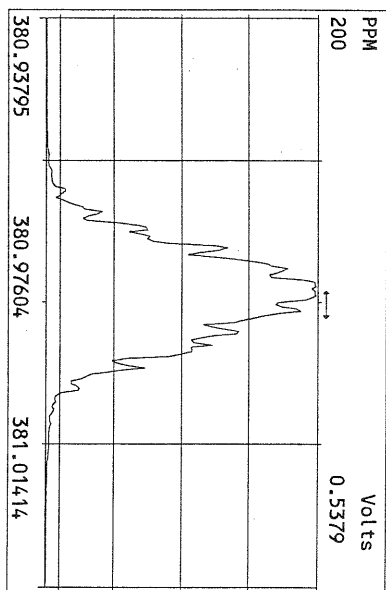
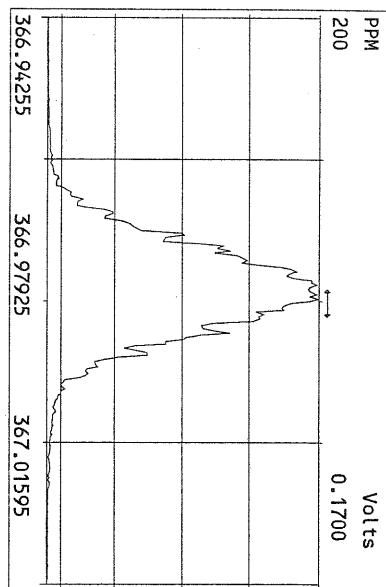

8/29/08

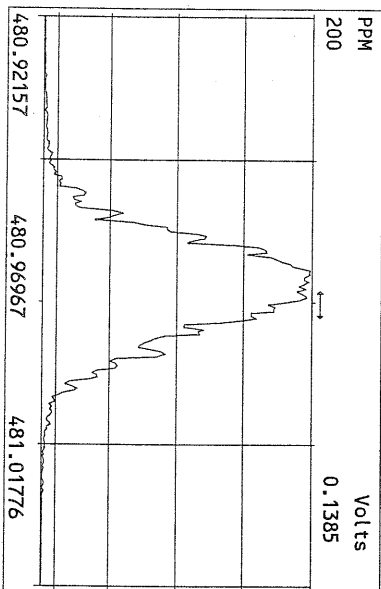
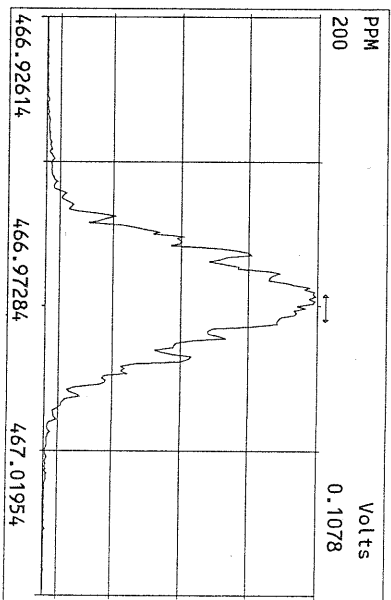
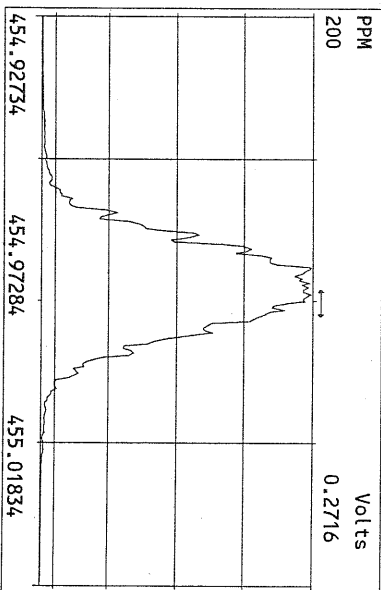
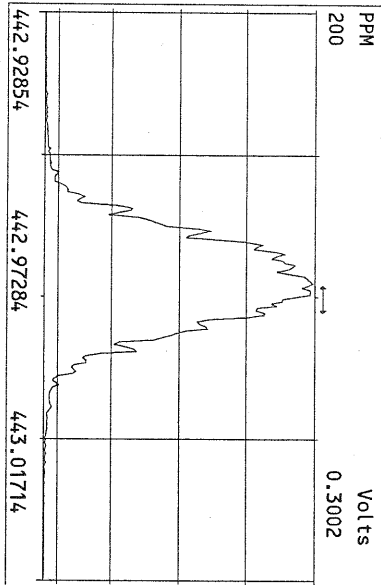
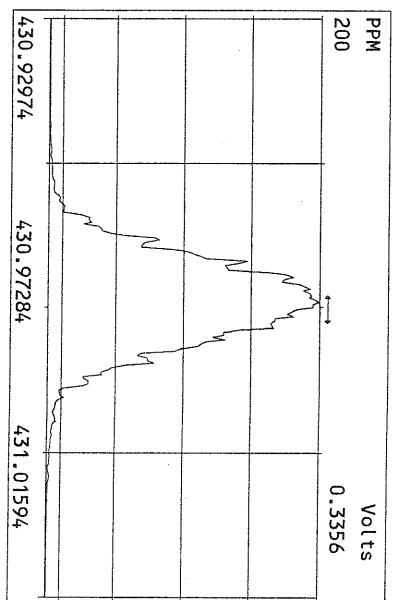
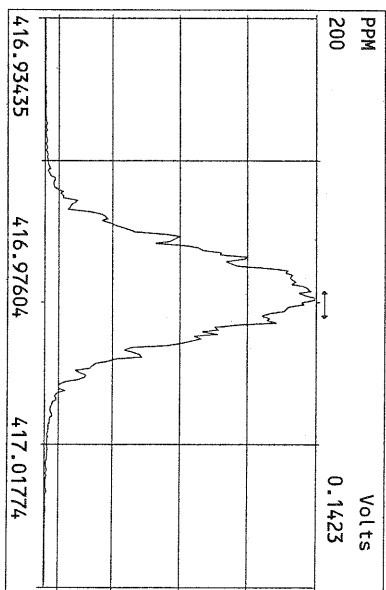
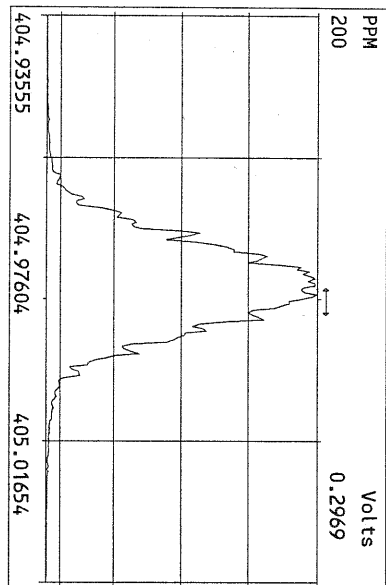
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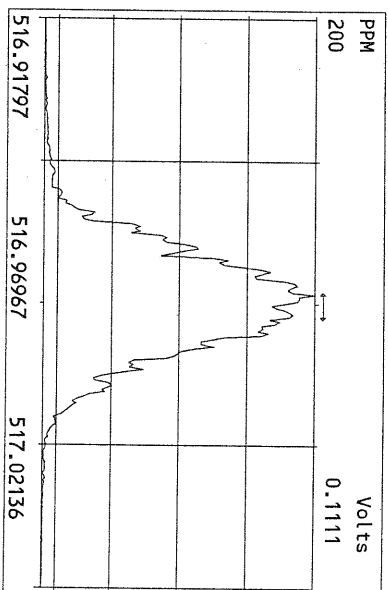
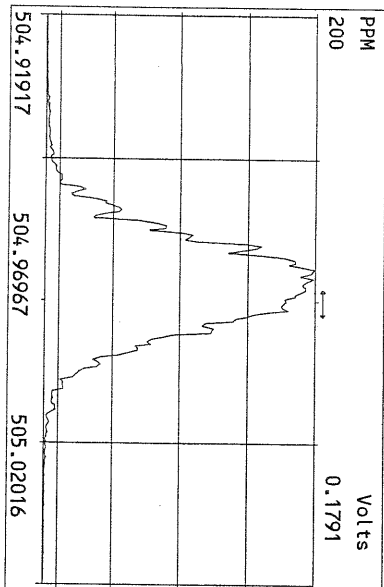
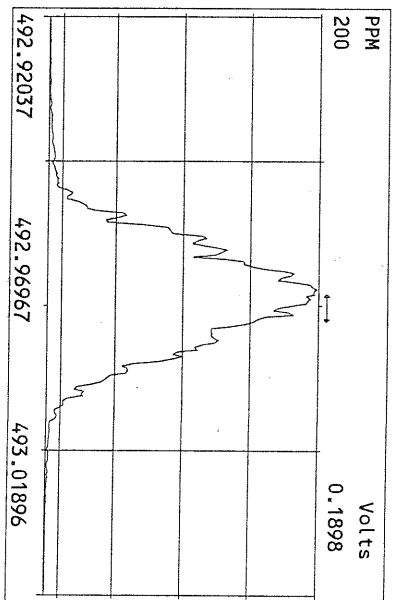
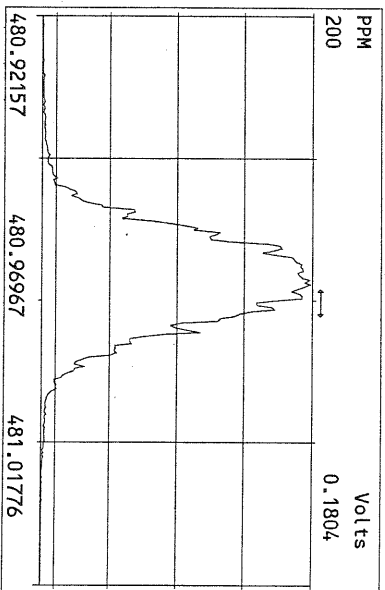
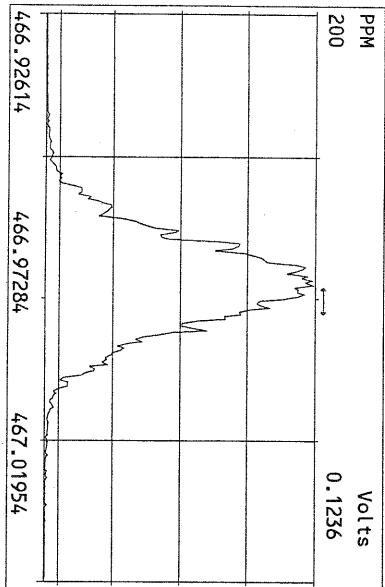
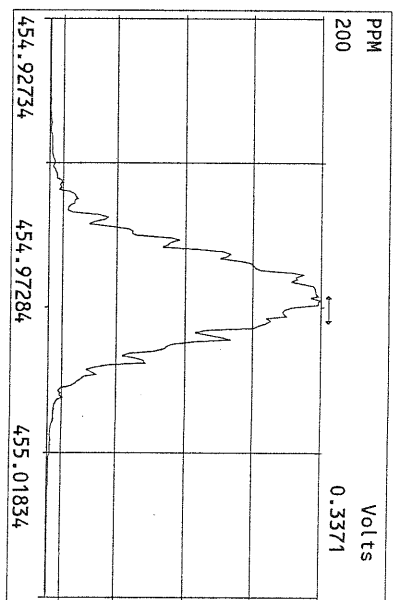
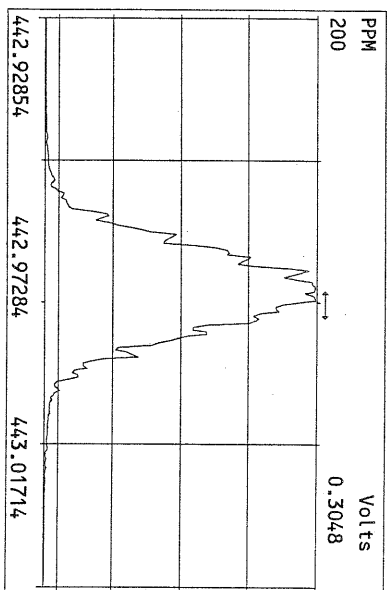
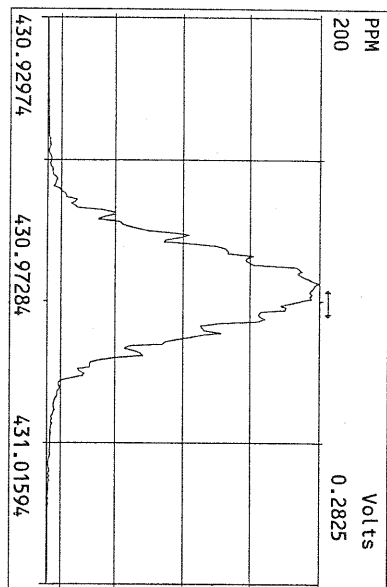
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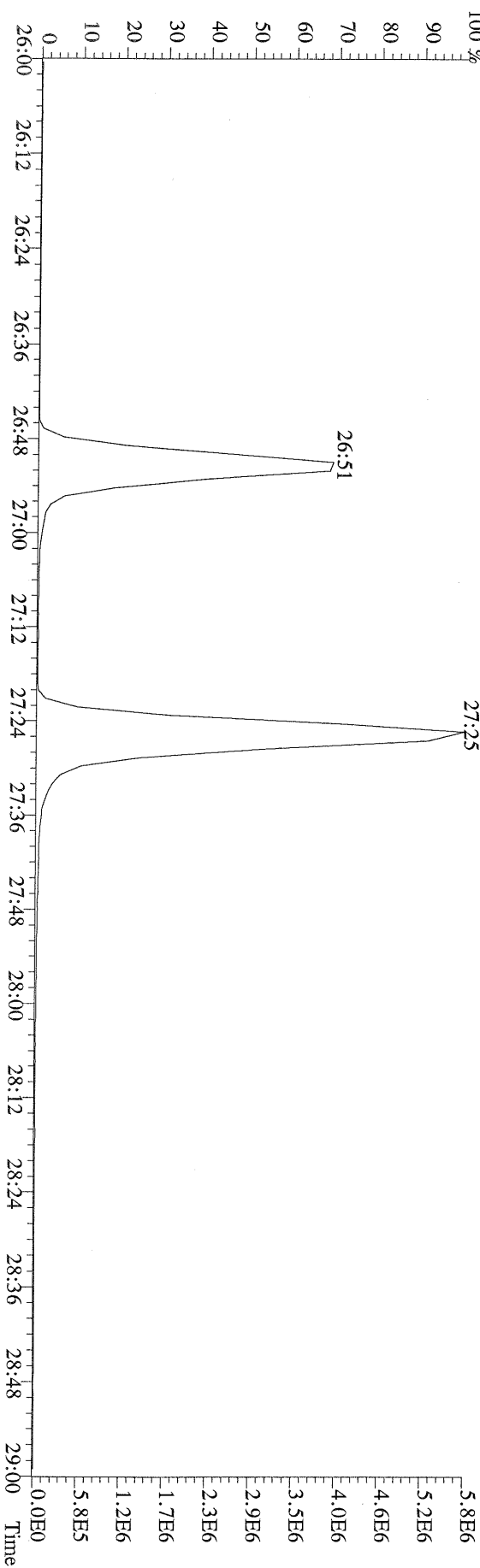
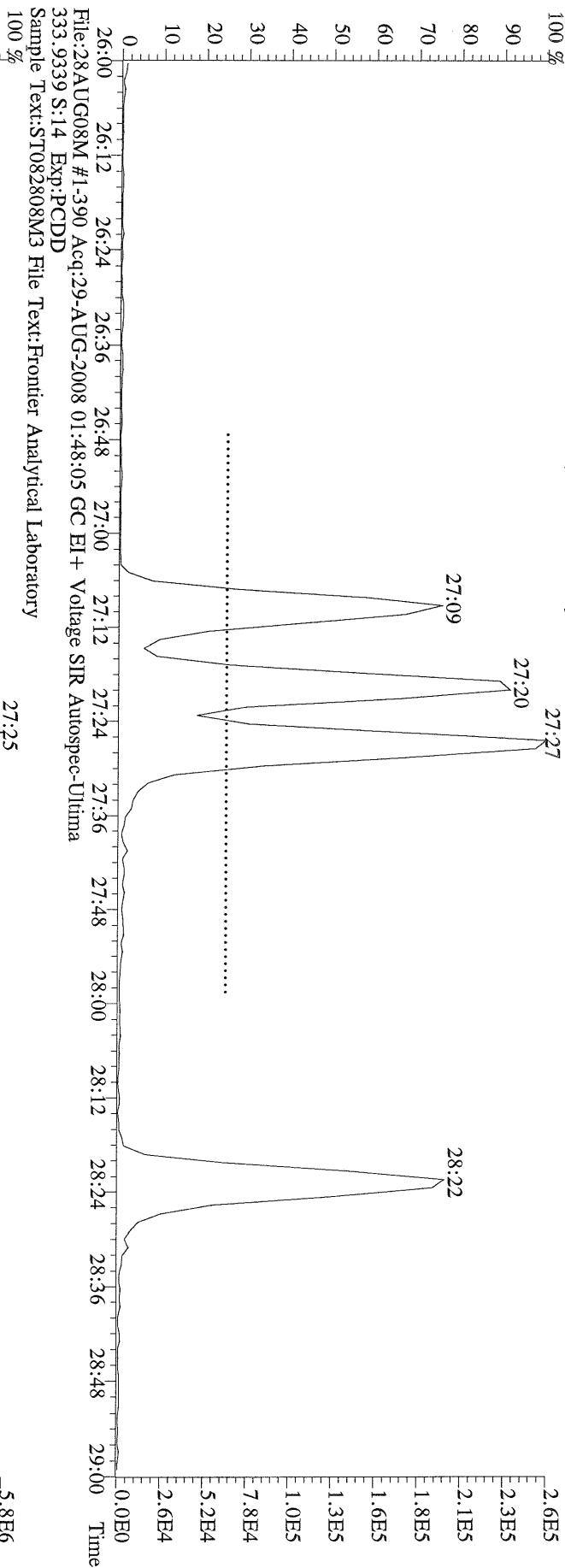




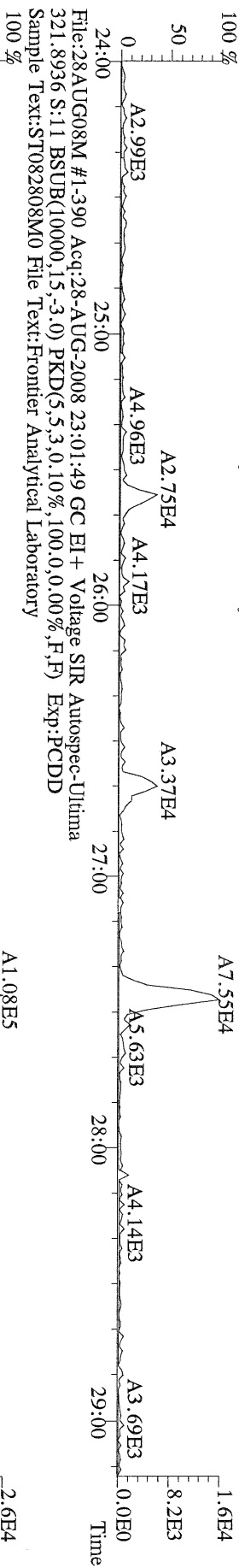




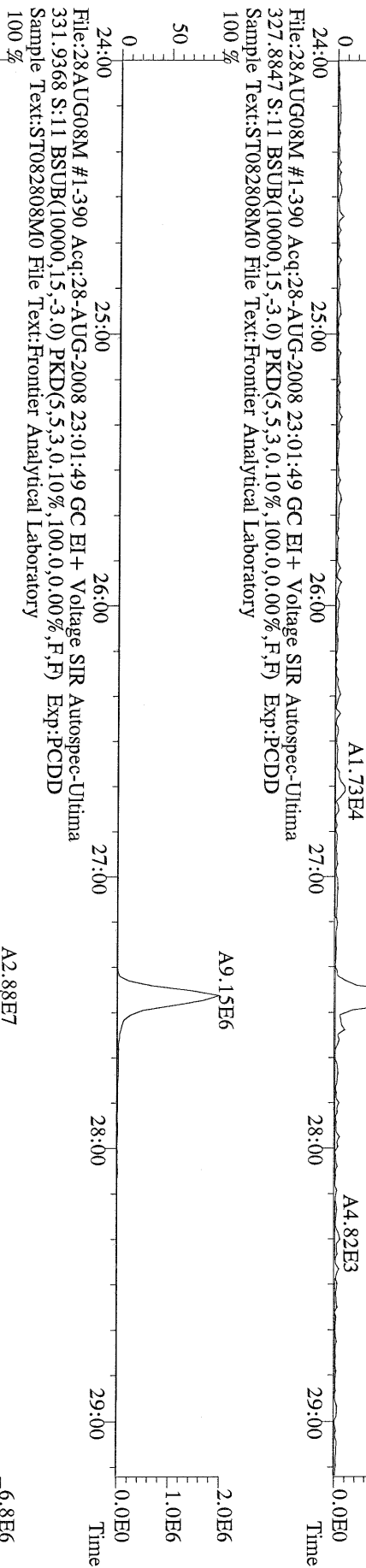
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321.8936 S:14 Exp:PCDD
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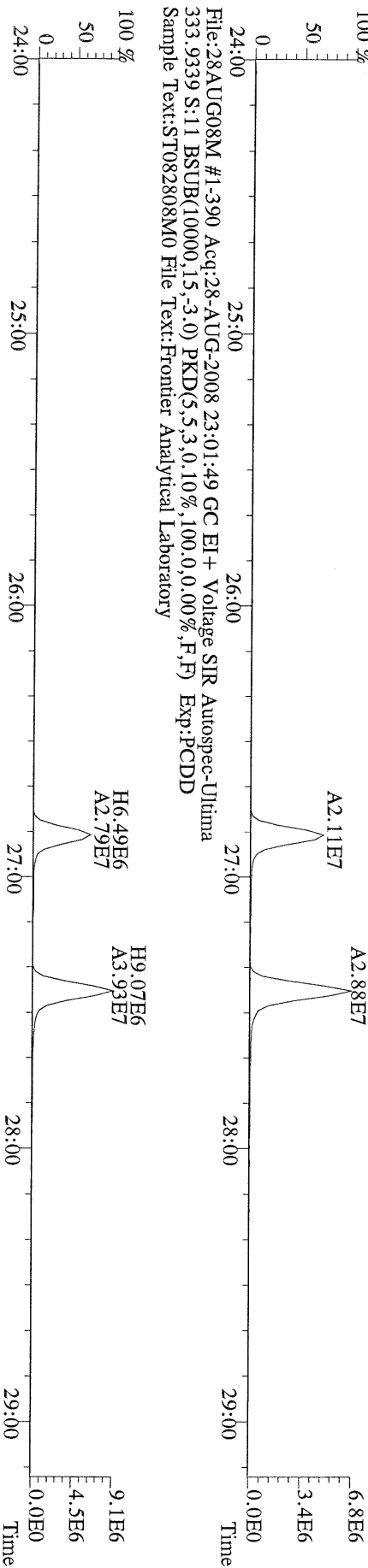
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319.8965 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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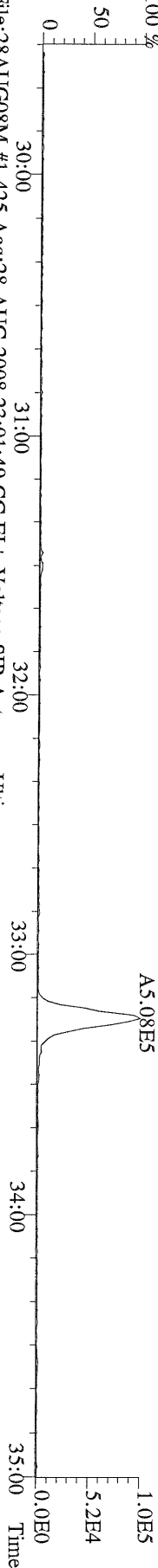
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Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



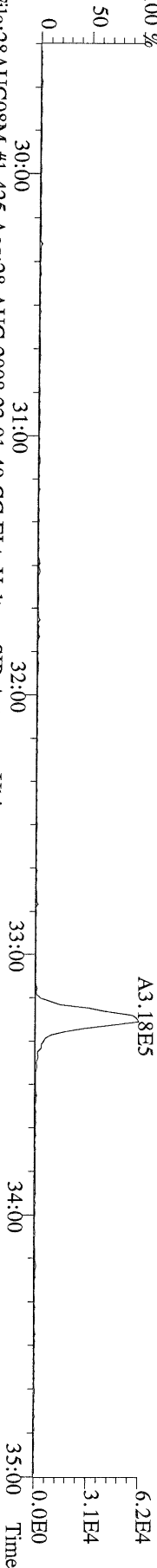
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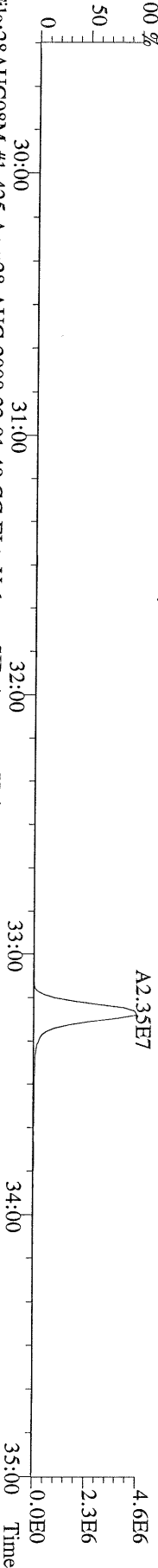
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355.8546 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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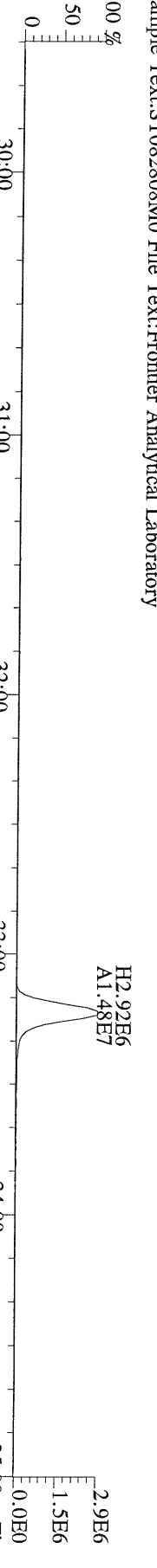
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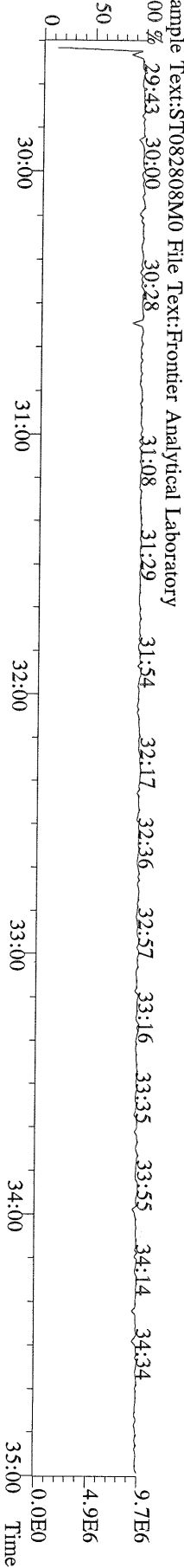
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367.8949 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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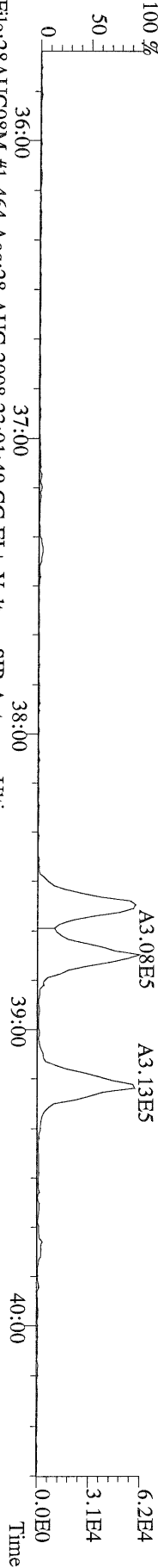
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369.8919 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



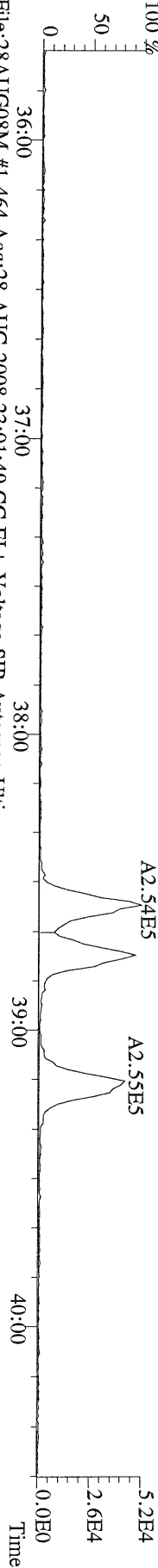
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Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



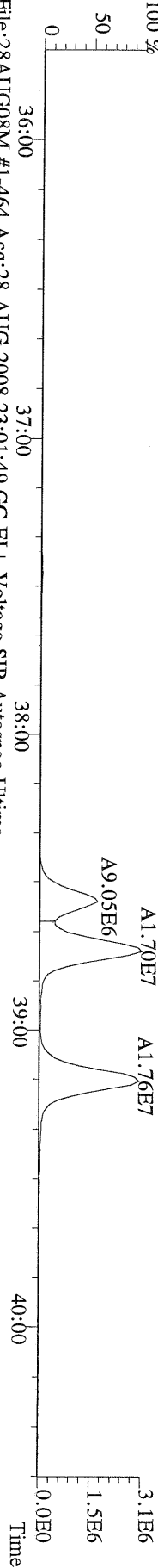
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389.8156 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



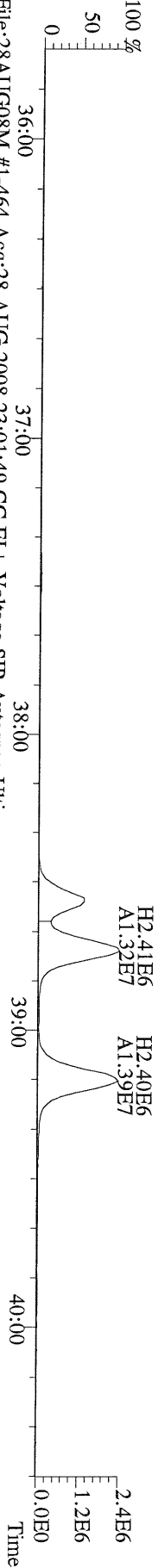
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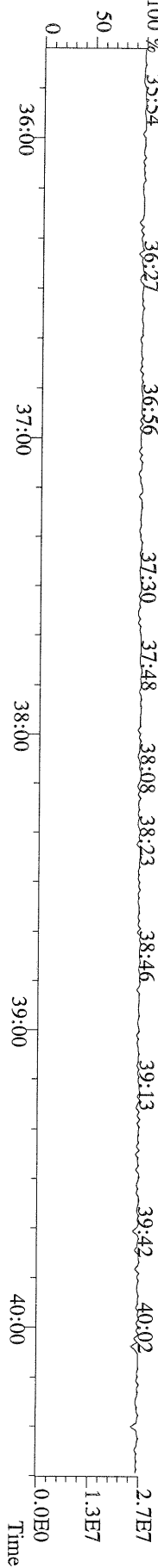
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Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



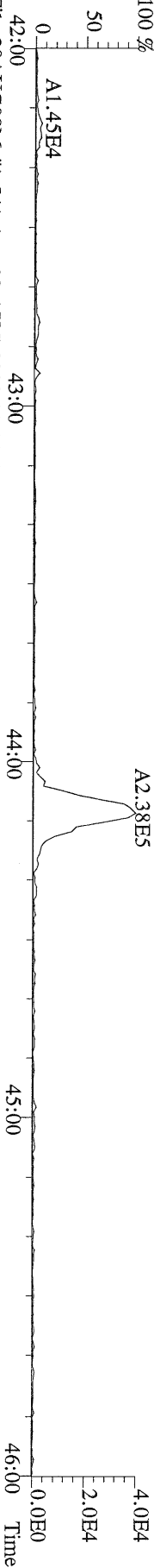
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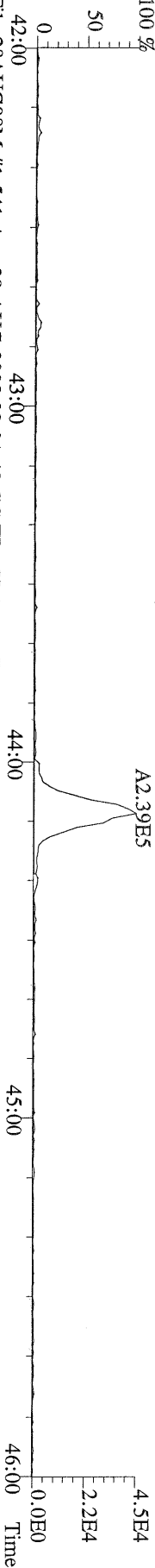
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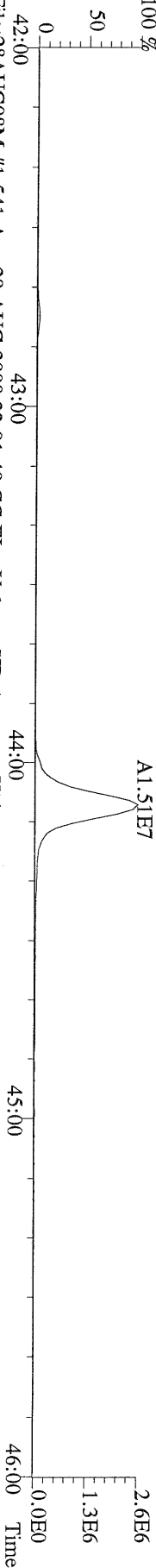
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423.7767 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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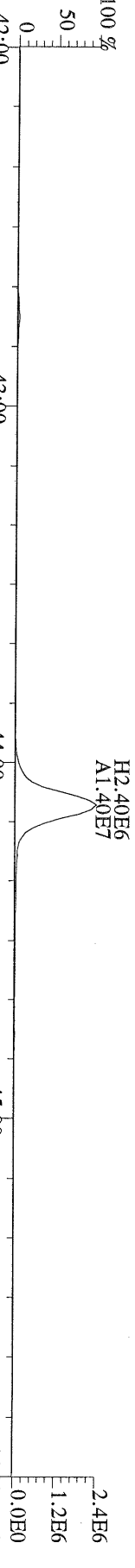
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425.7737 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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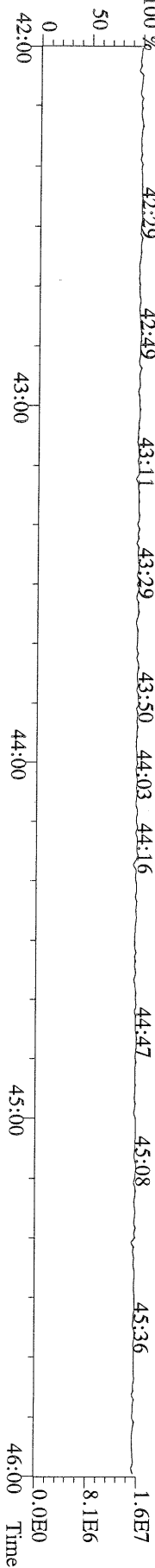
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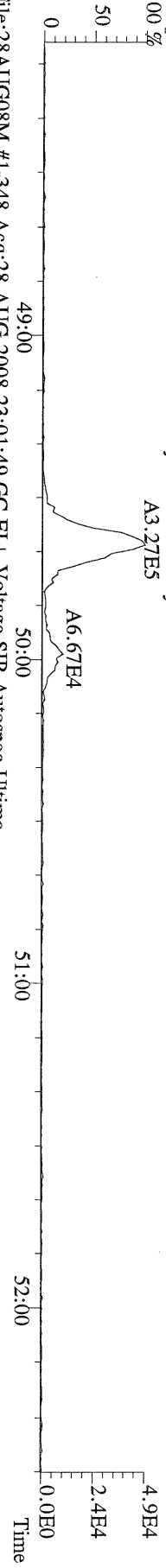
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437.8140 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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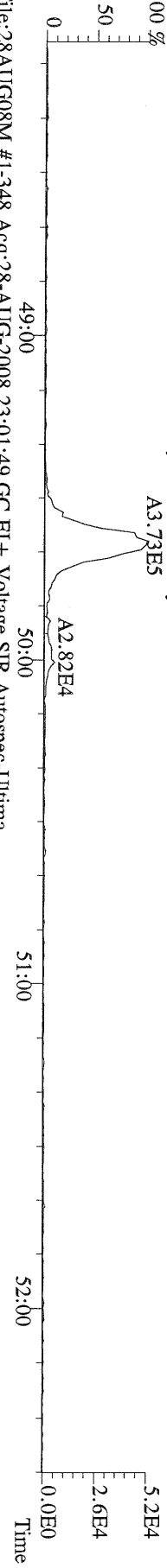
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430.9728 S:11 F:4 Exp:PCDD
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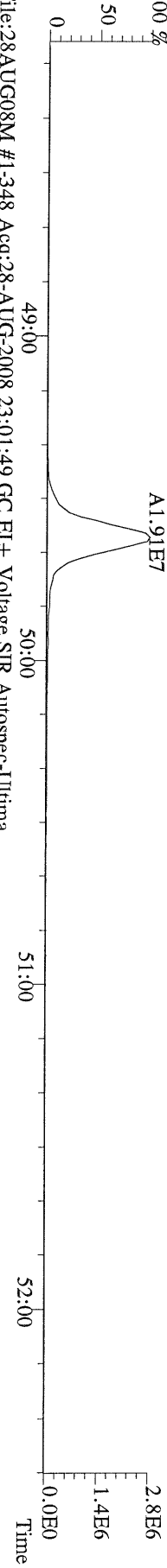
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457.7377 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory
100 %



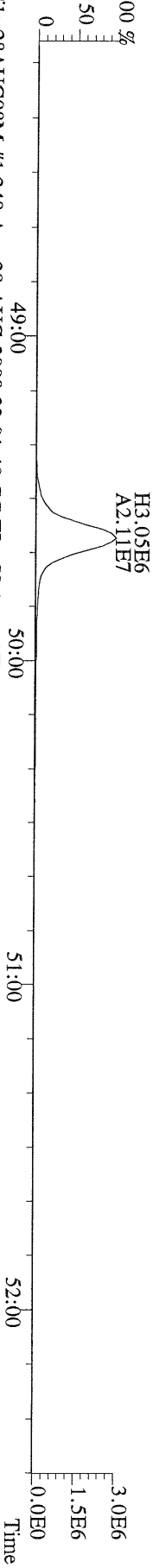
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459.7348 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory
100 %



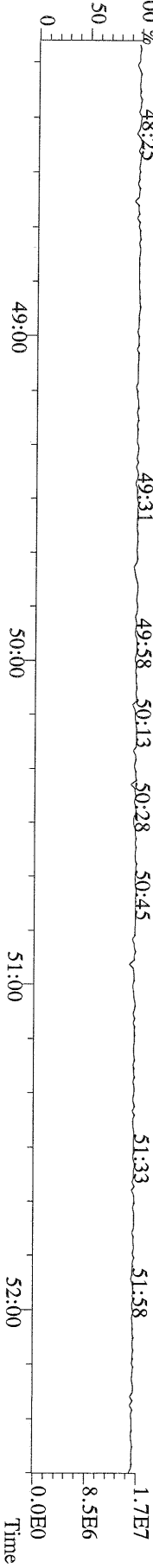
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469.7780 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory
100 %



File:28AUG08M #1-348 Acq:28-AUG-2008 23:01:49 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



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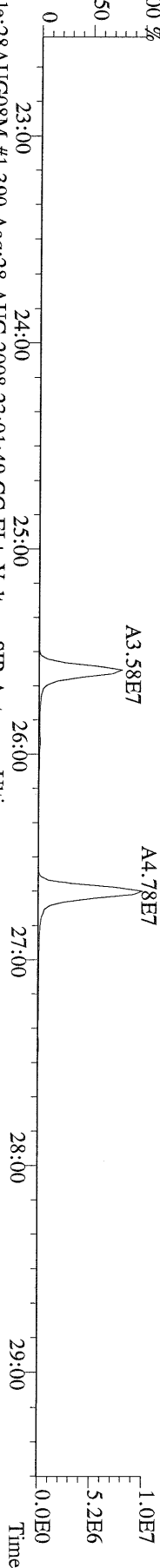
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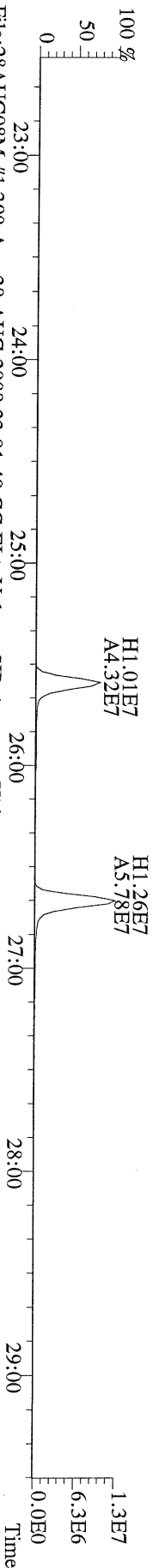
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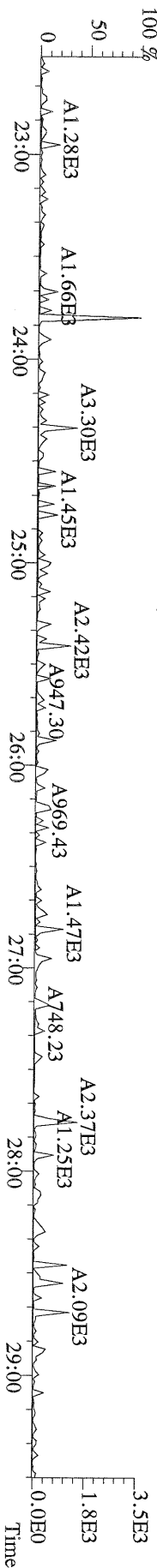
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315.9419 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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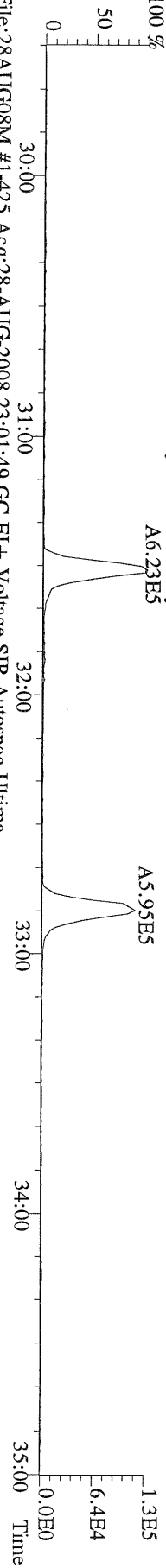
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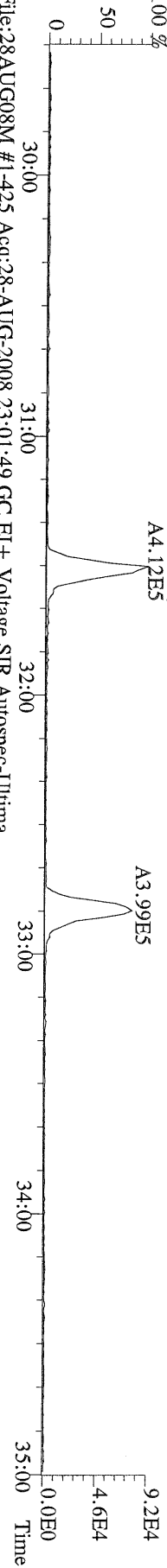
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375.8364 S:11 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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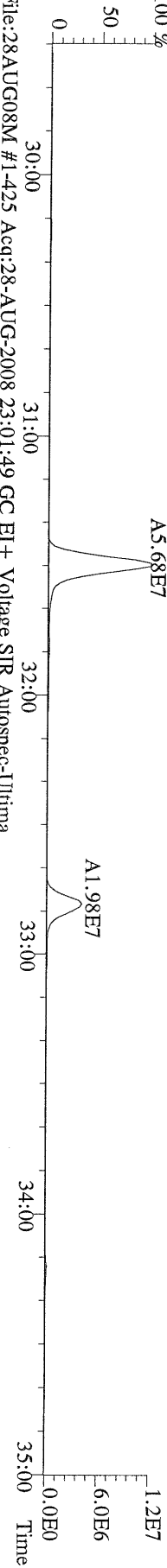
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339.8597 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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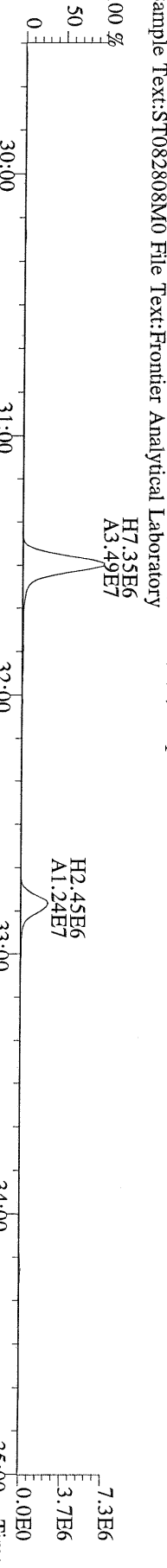
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341.8568 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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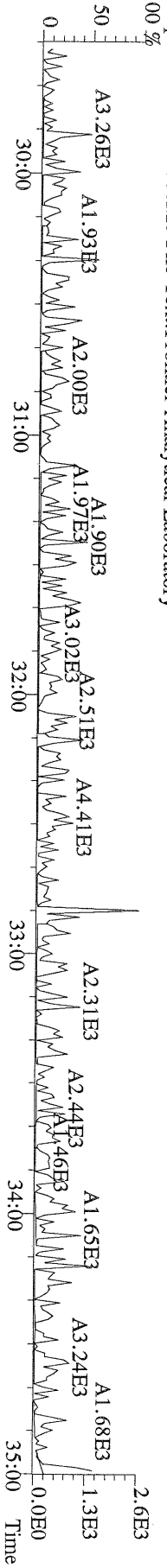
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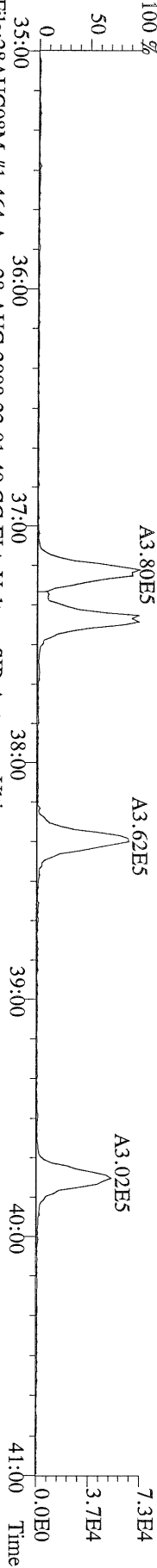
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353.8970 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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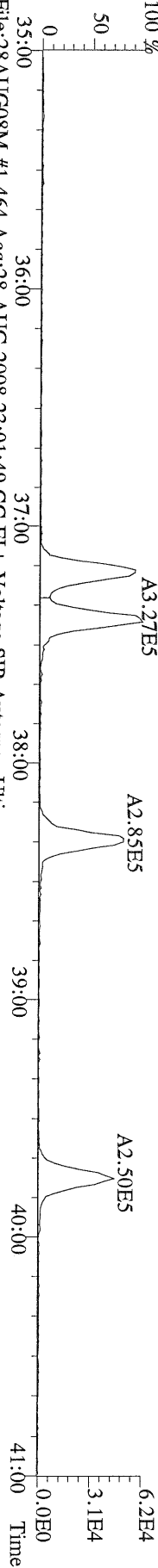
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409.7974 S:11 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



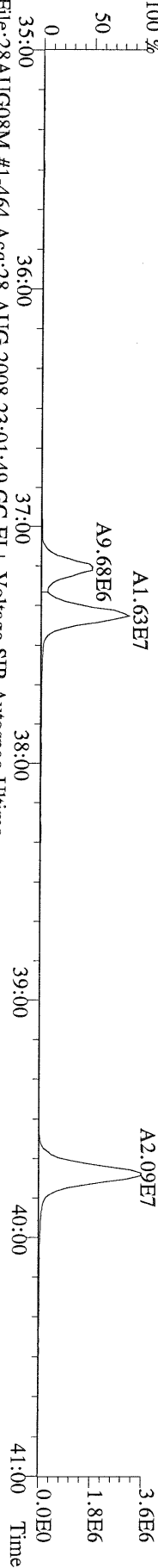
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373.8207 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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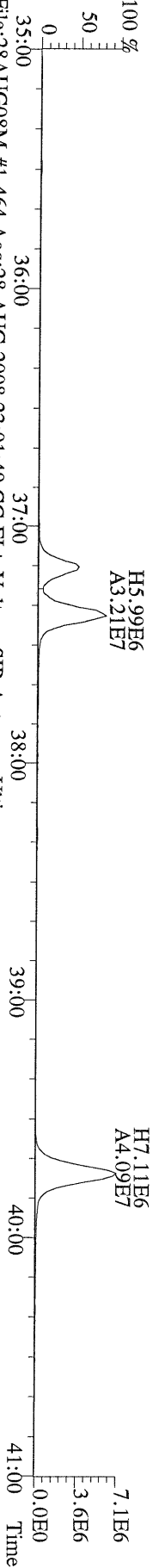
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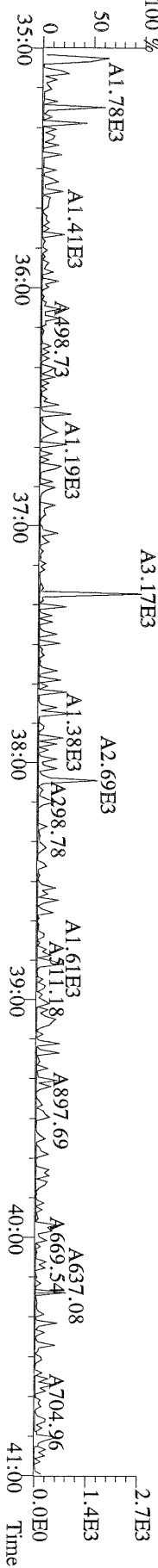
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383.8639 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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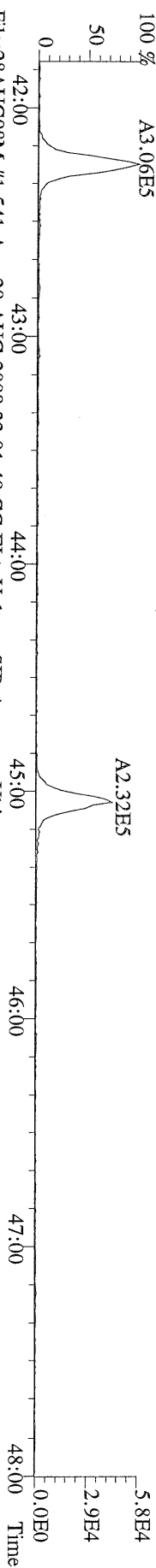
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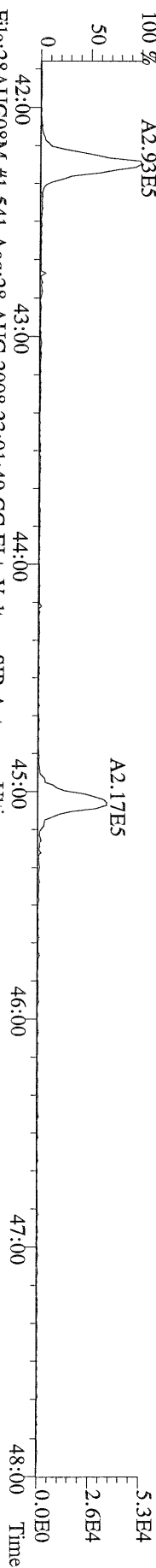
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445.7555 S:11 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



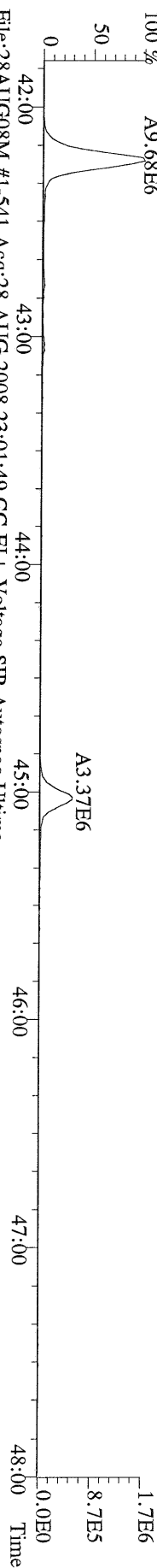
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407.7818 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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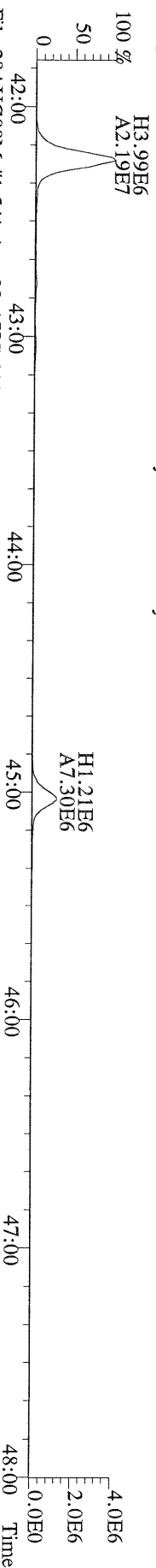
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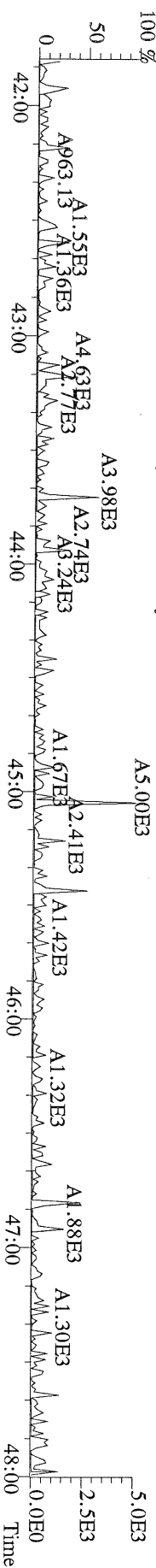
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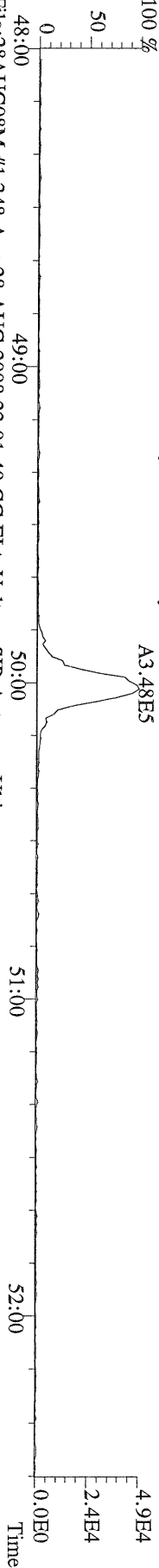
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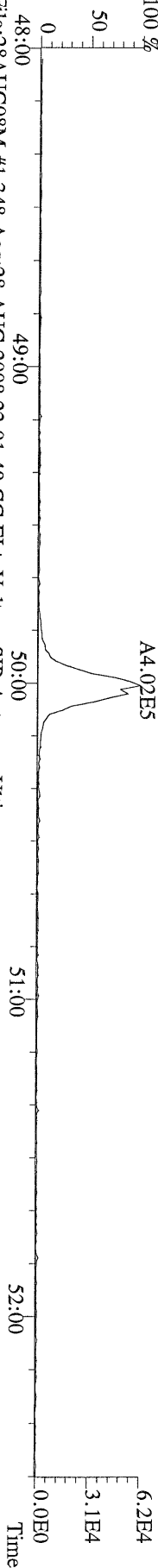
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479.7165 S:11 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



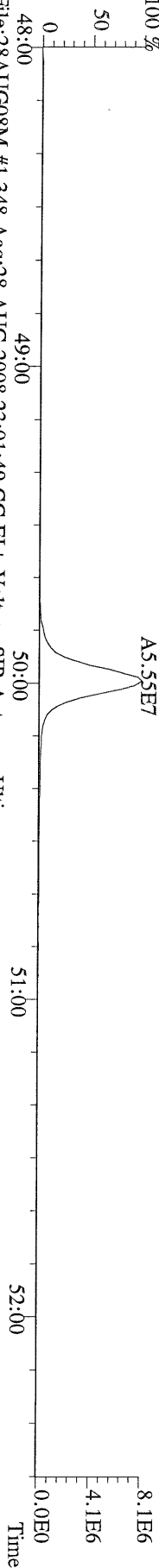
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Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



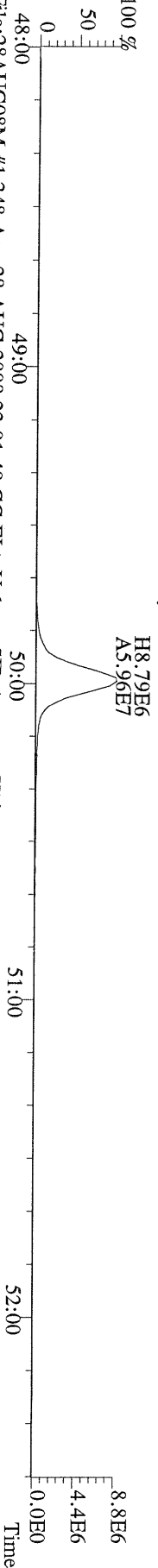
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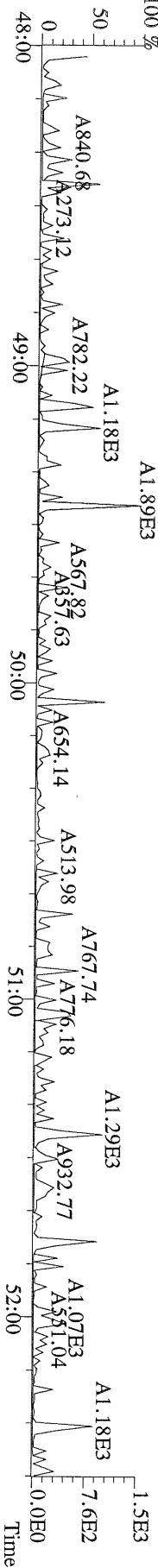
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453.7831 S:11 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



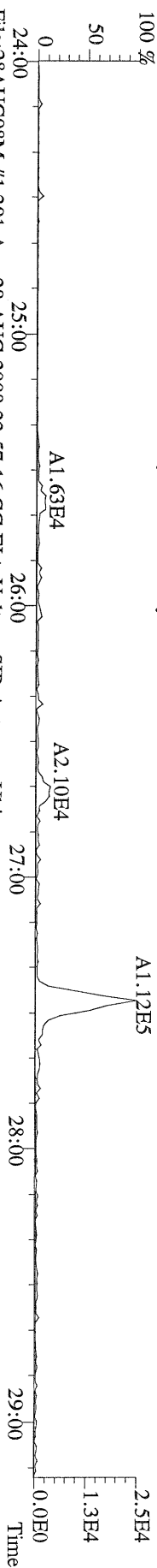
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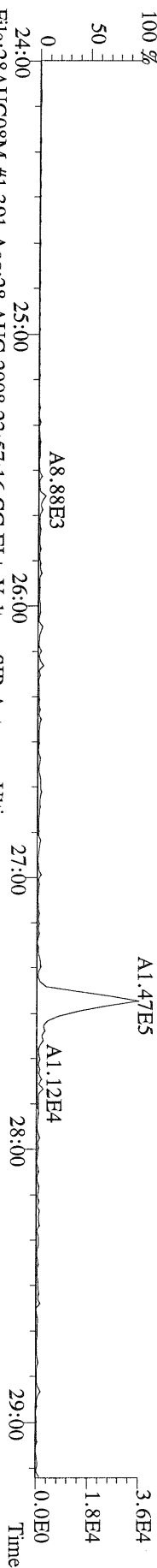
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Sample Text:ST082808M0 File Text:Frontier Analytical Laboratory



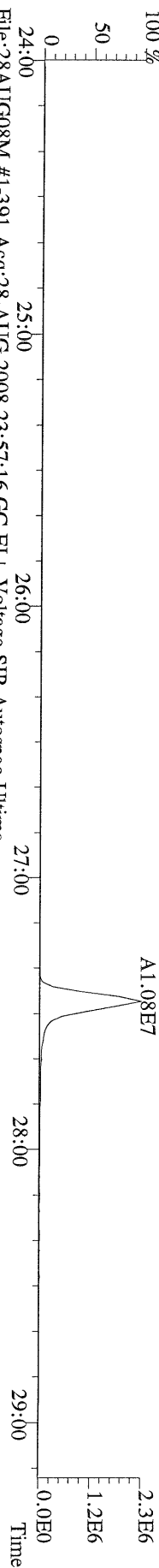
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319.8965 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



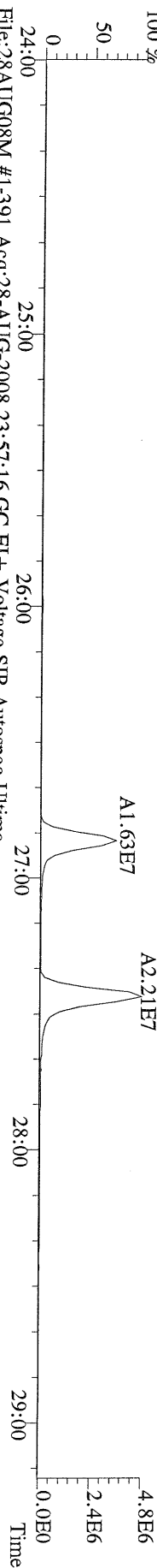
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321.8936 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



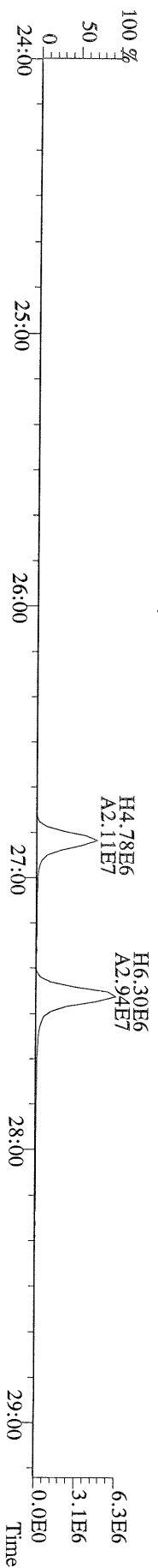
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327.8847 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



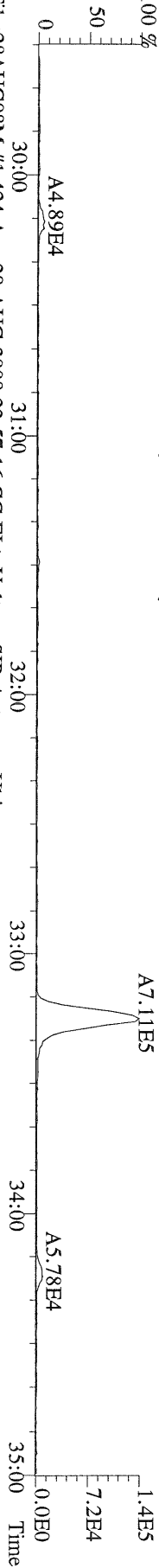
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331.9368 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



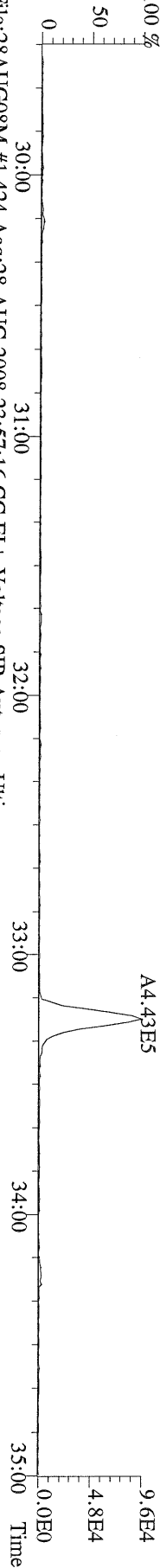
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333.9339 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



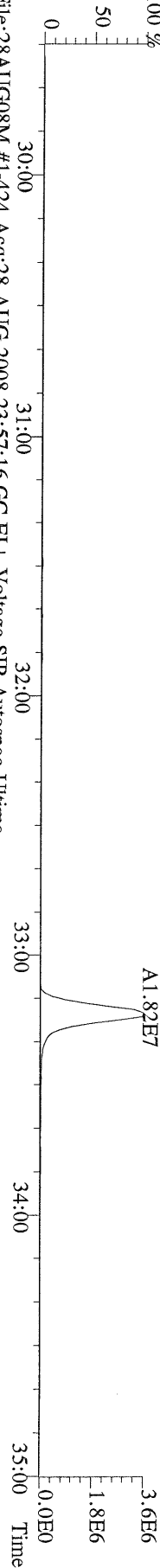
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355.8546 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



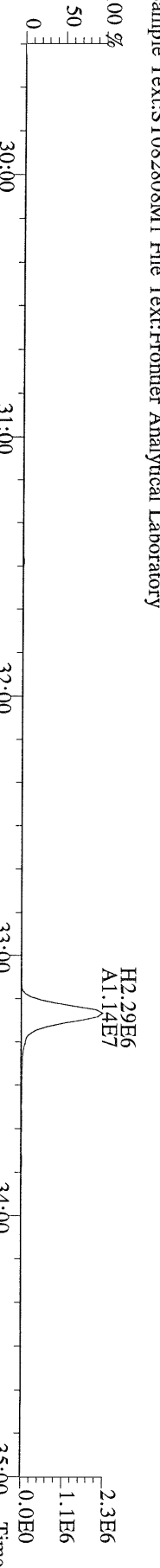
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357.8517 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



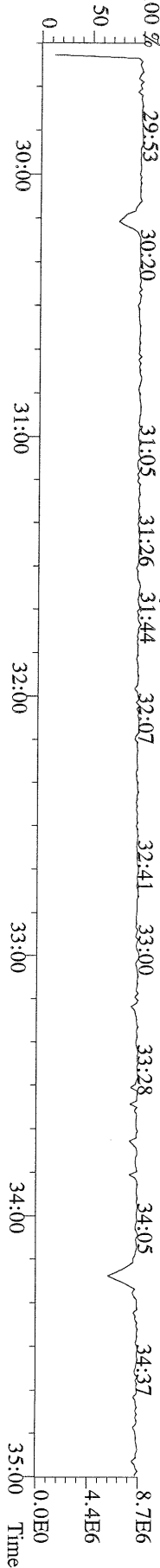
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367.8949 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



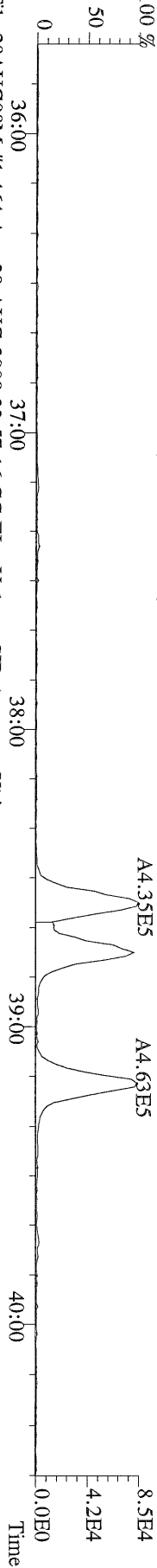
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369.8919 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



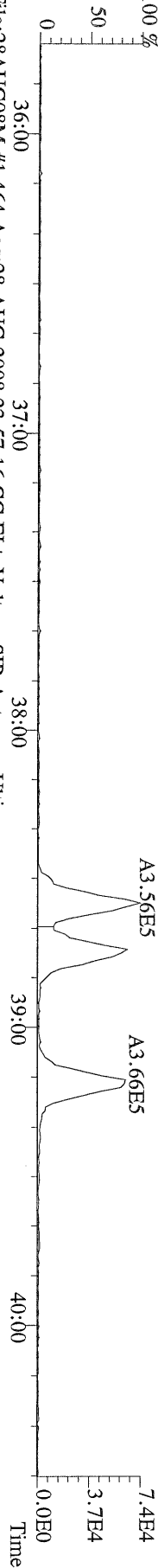
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366.9792 S:12 F:2 Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



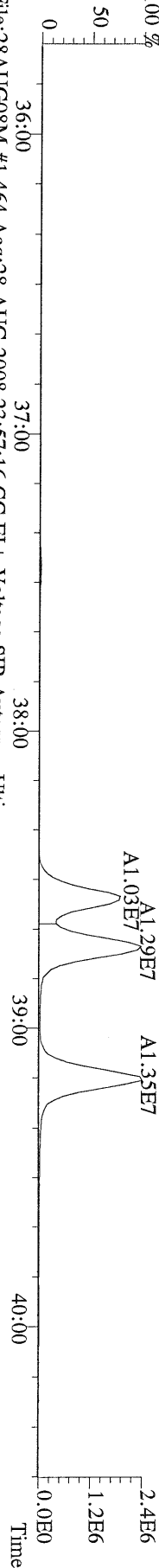
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389.8156 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



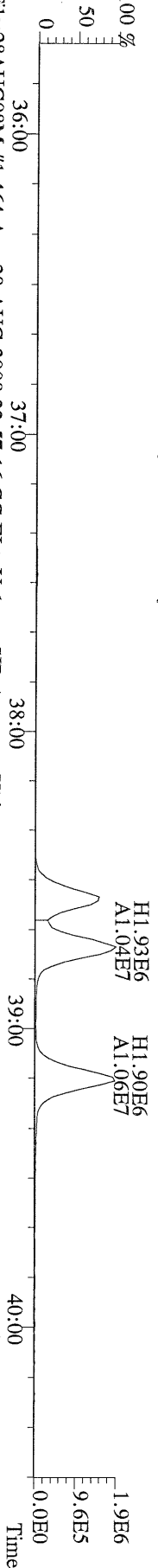
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391.8127 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



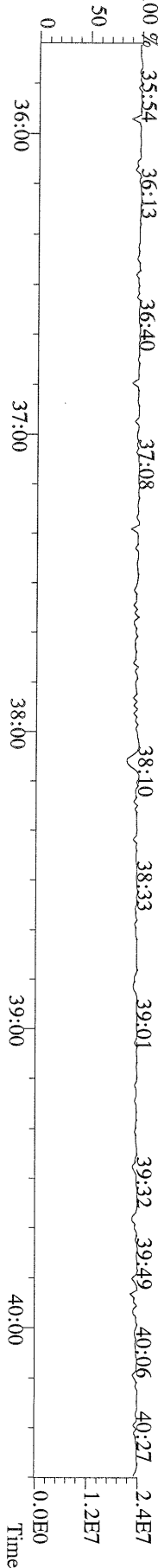
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401.8559 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



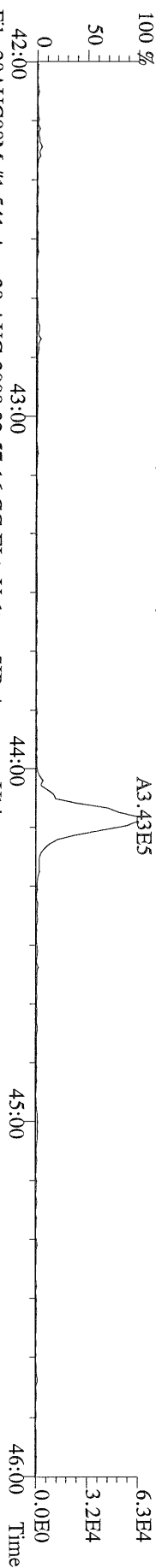
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403.8530 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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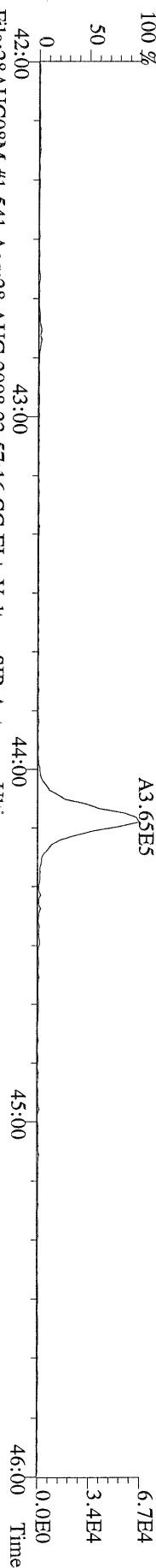
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380.9760 S:12 F:3 Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



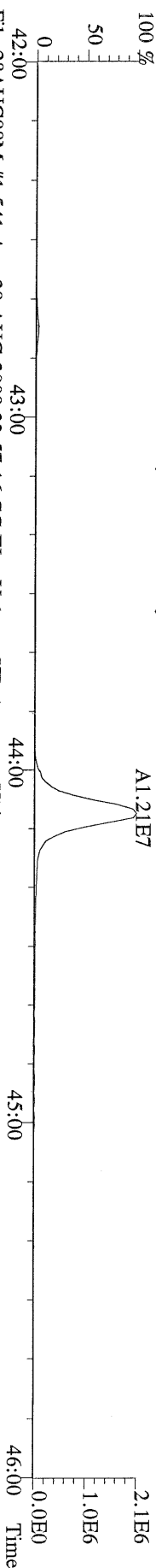
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423.7767 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



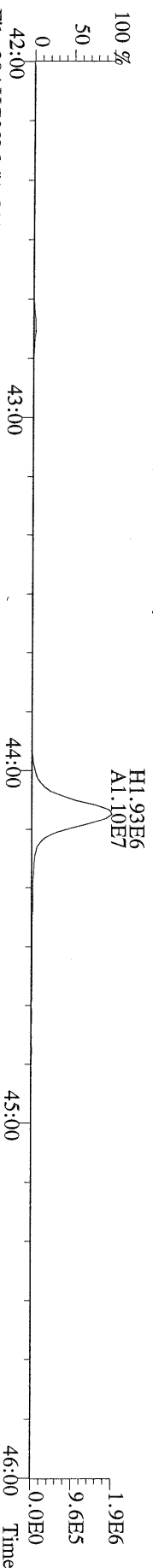
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425.7737 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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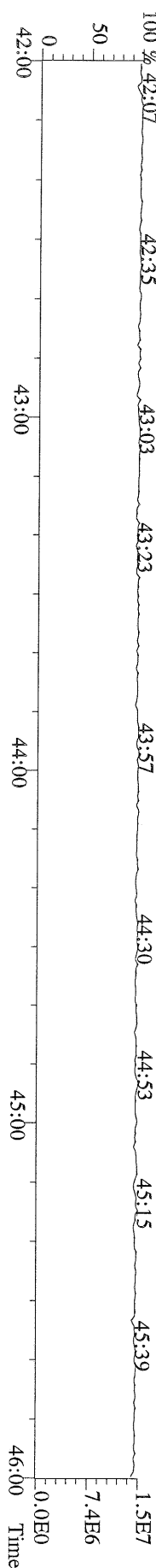
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435.8169 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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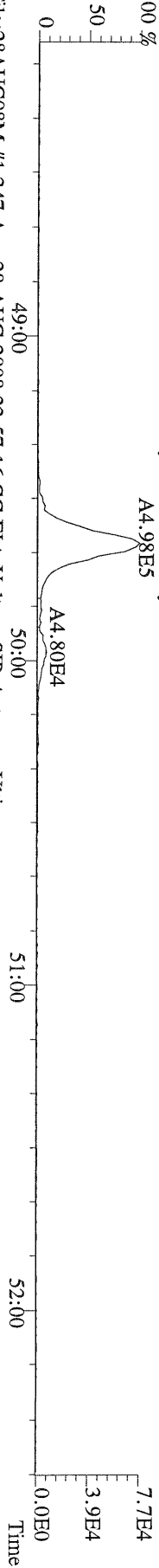
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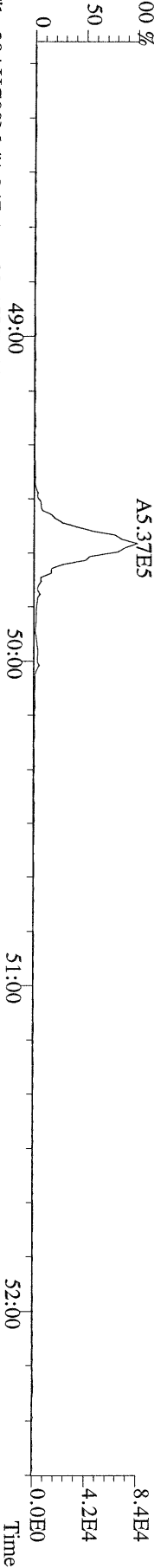
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430.9728 S:12 F:4 Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



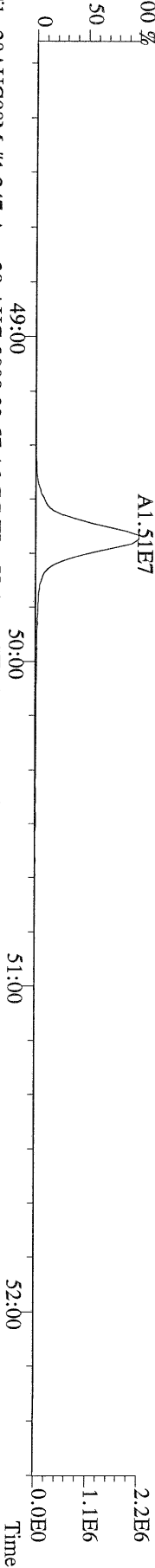
File:28AUG08M #1-347 Acq:28-AUG-2008 23:57:16 GC EI + Voltage SIR Autospec-Ultima
457.7377 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



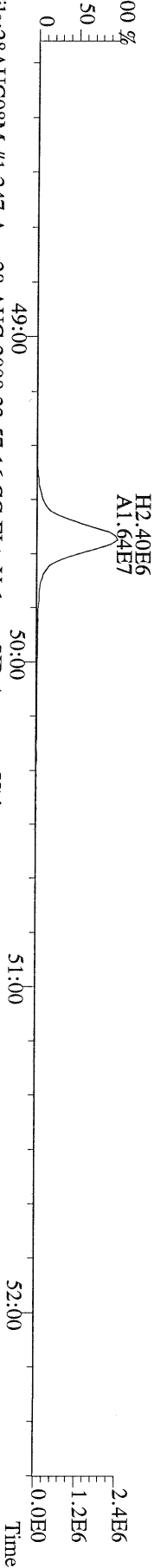
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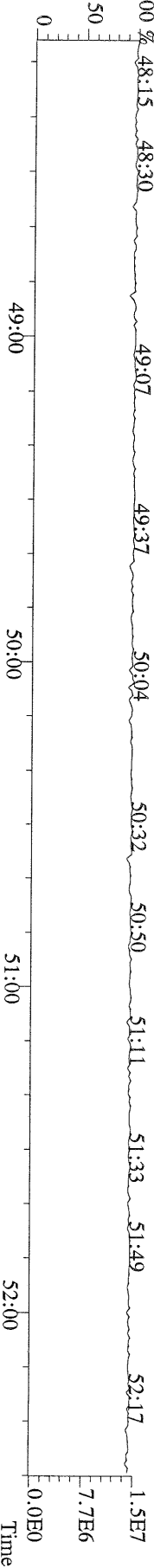
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469.7780 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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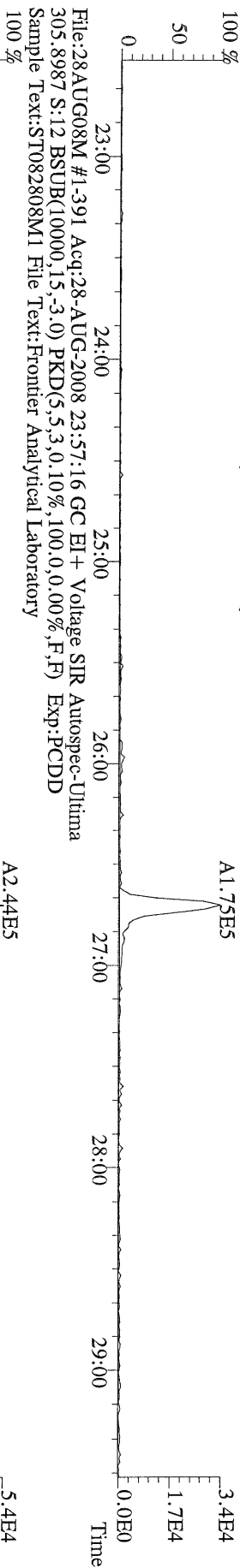
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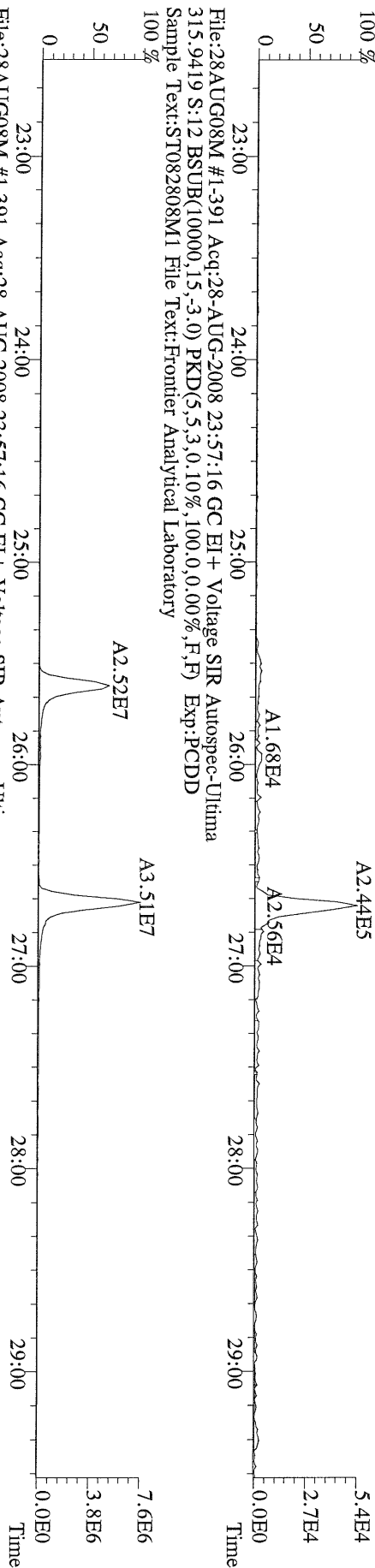
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



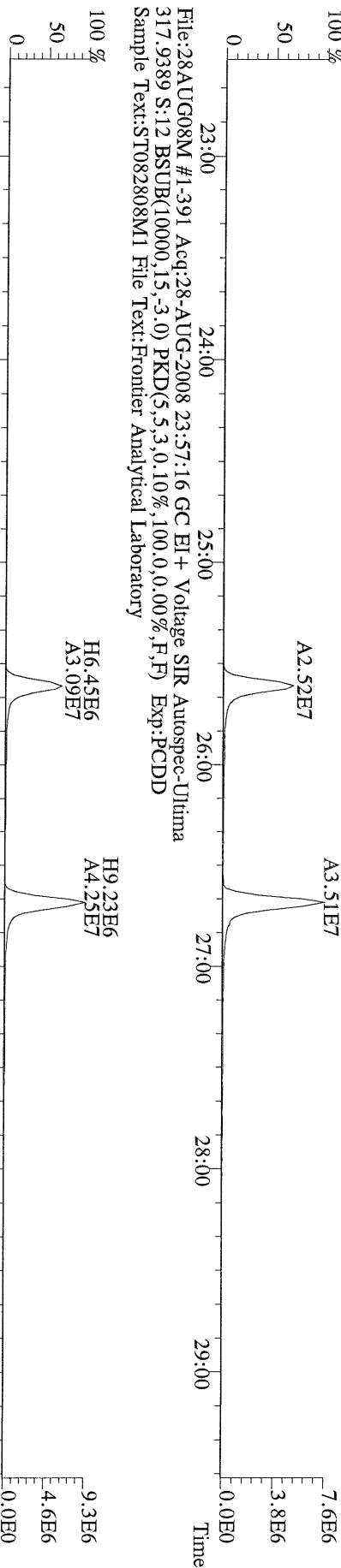
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



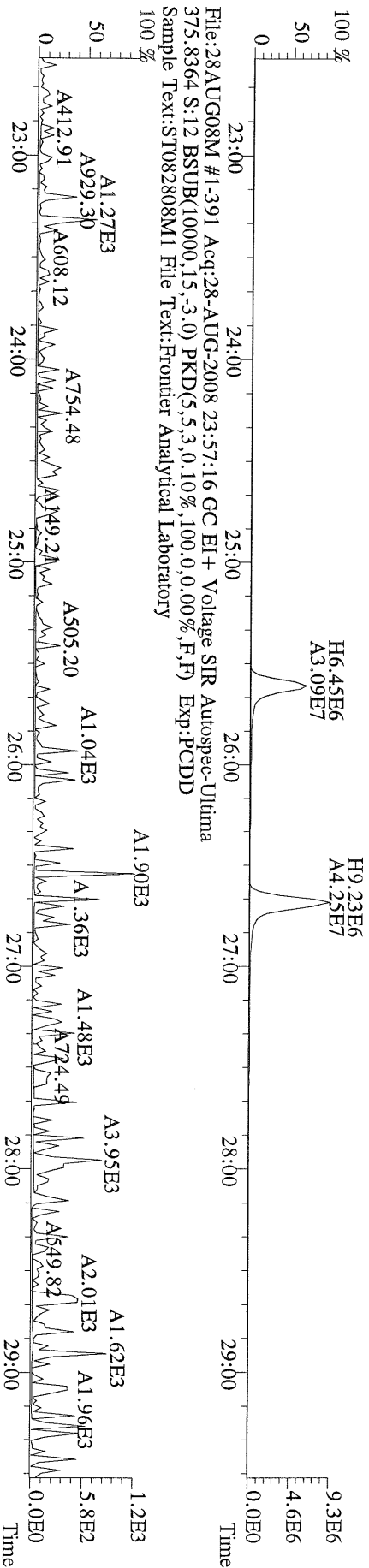
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305.8987 S:12 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



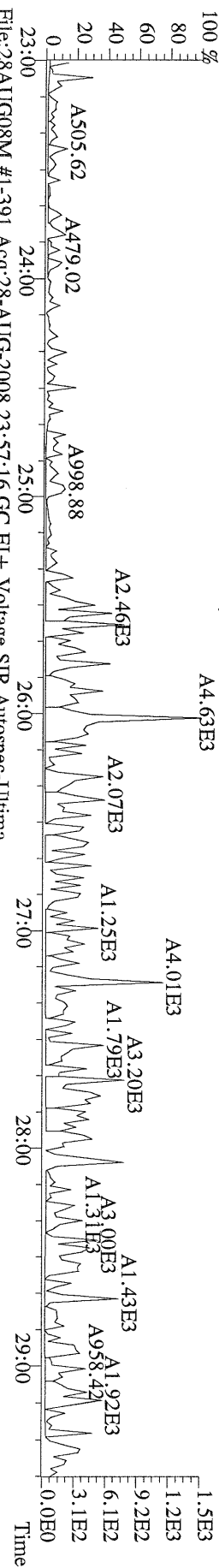
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



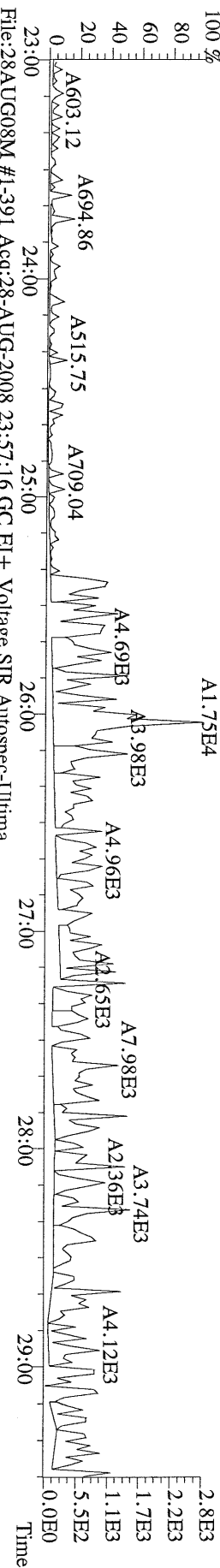
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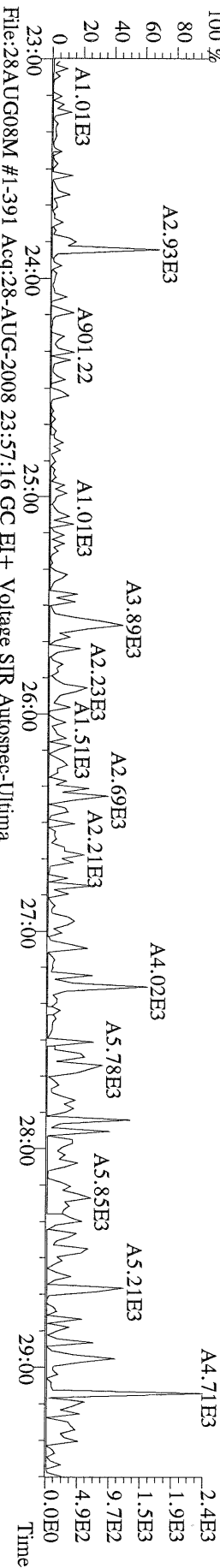
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339.8597 S:12 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



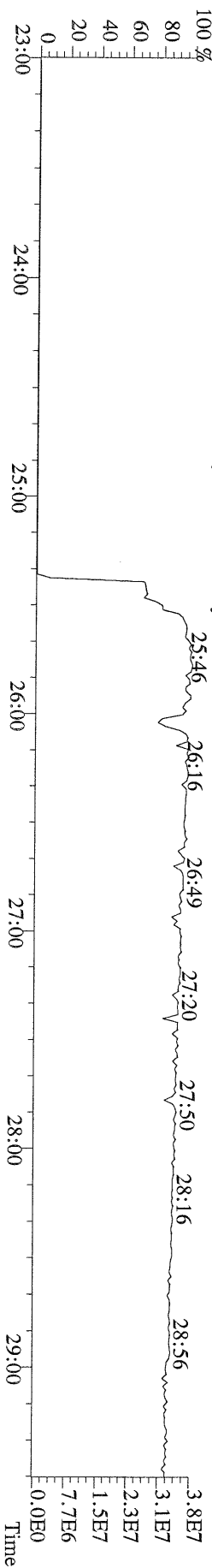
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341.8568 S:12 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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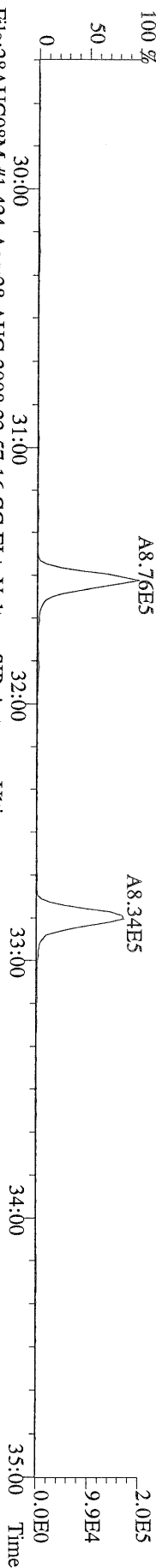
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409.7974 S:12 BSUB(10000,15,3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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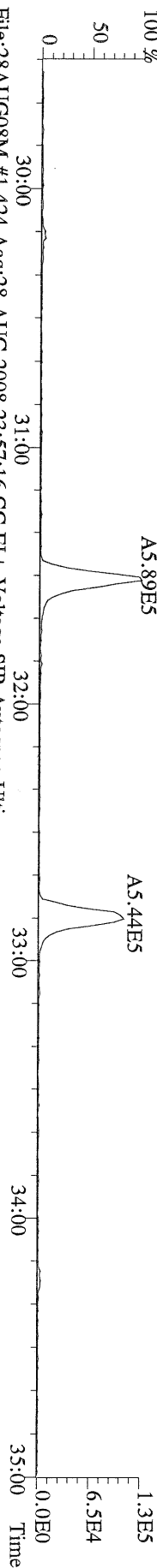
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330.9792 S:12 Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



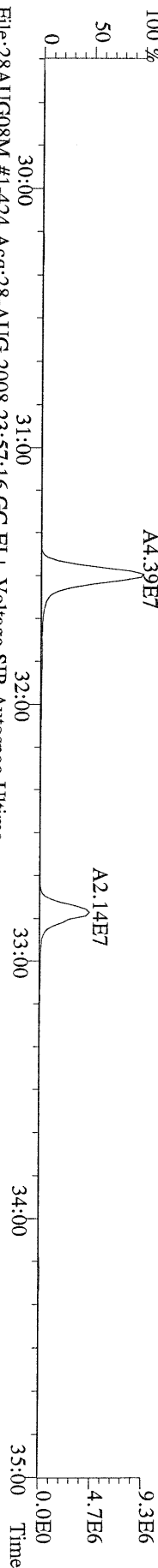
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339.8597 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
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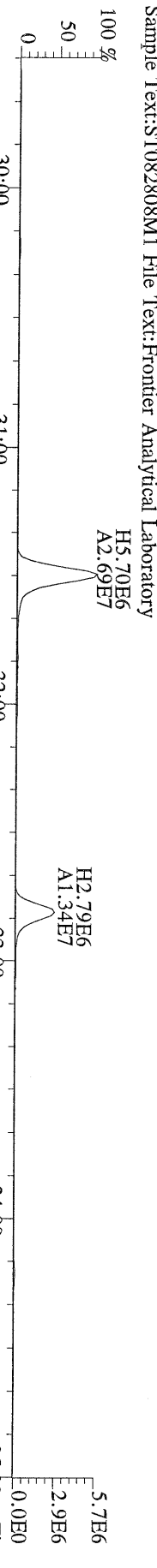
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341.8568 S:12 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



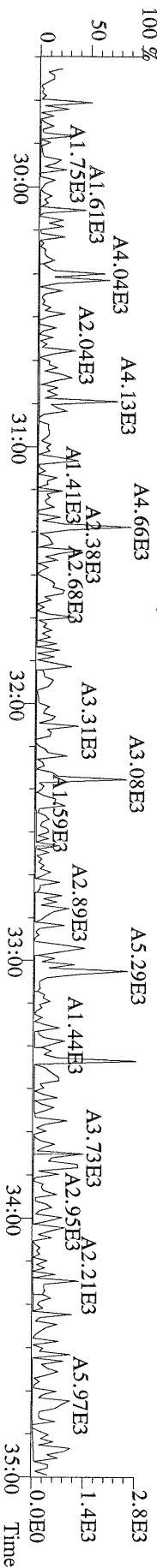
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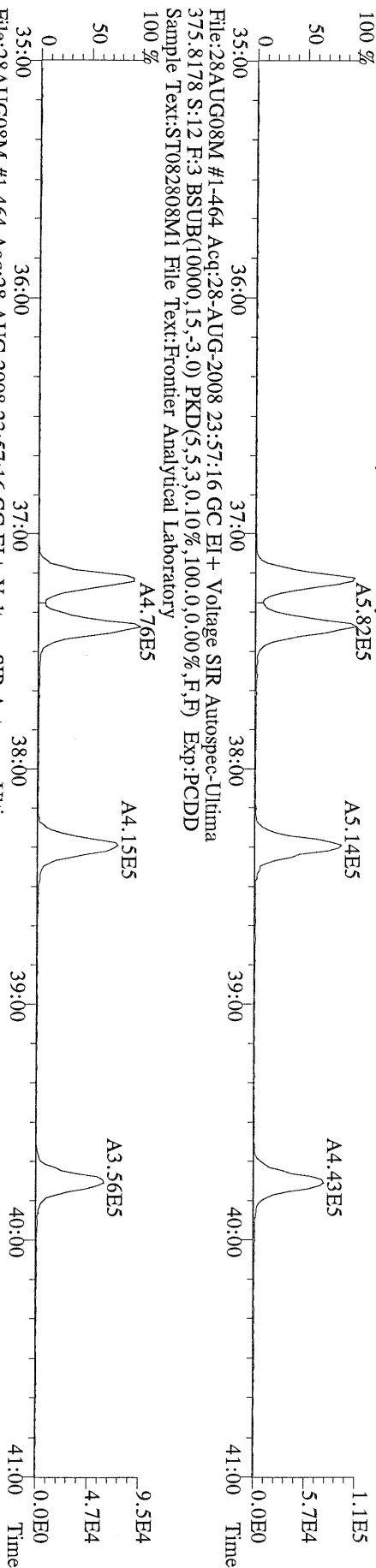
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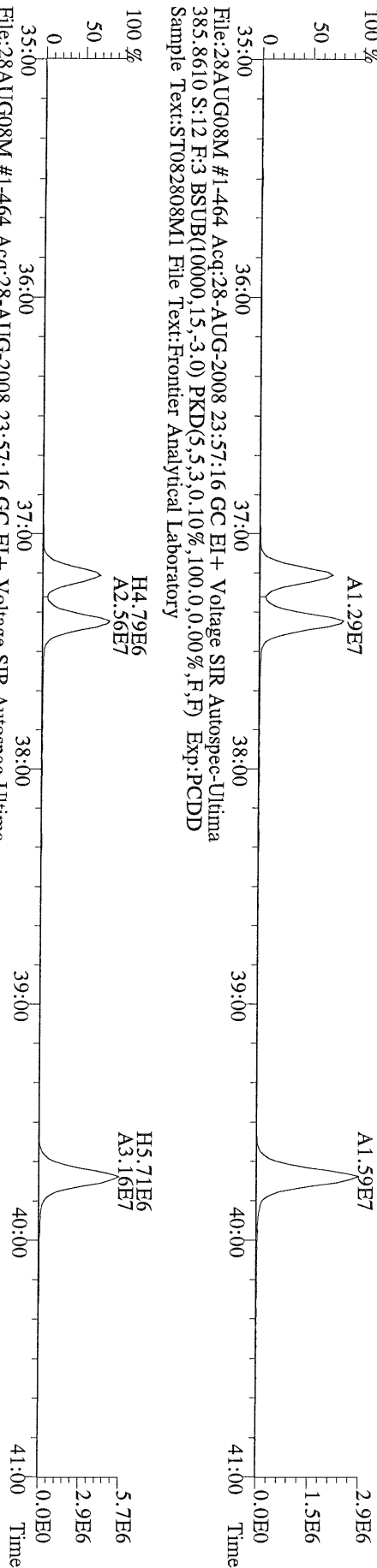
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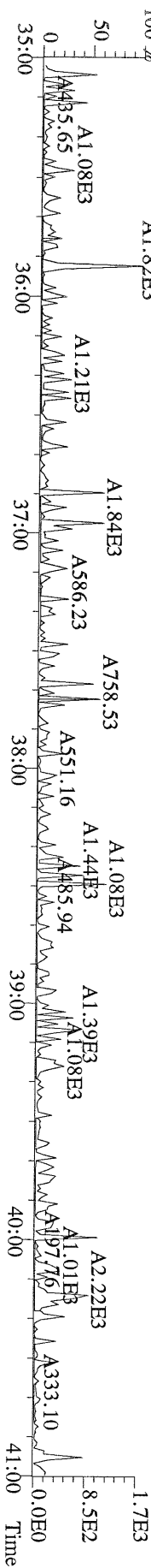
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373.8207 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



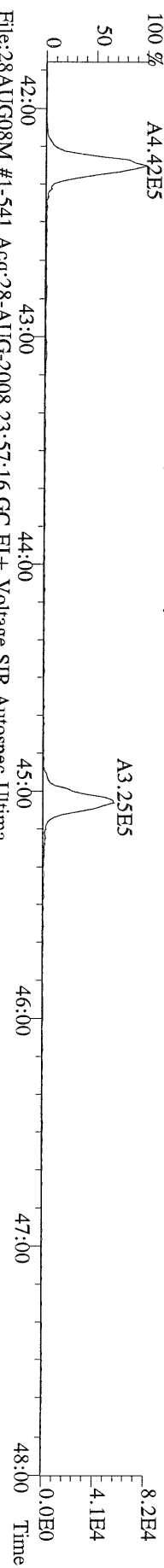
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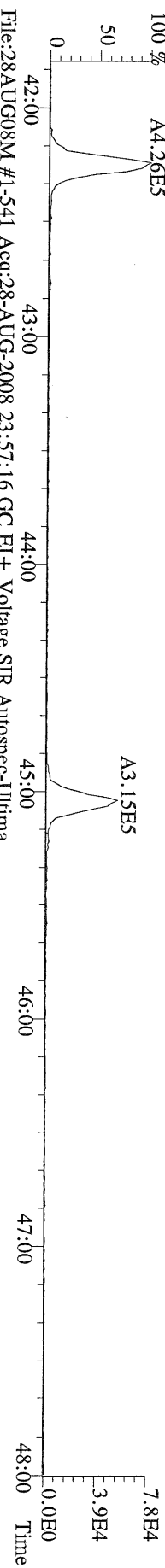
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445.7555 S:12 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



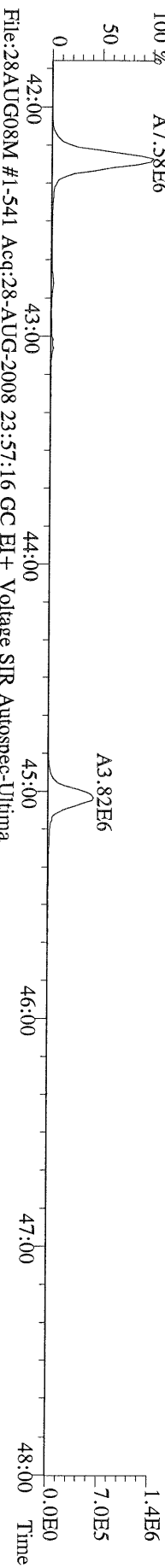
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407.7818 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



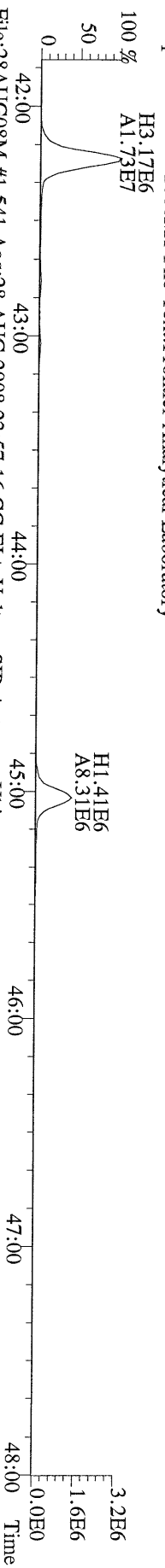
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Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



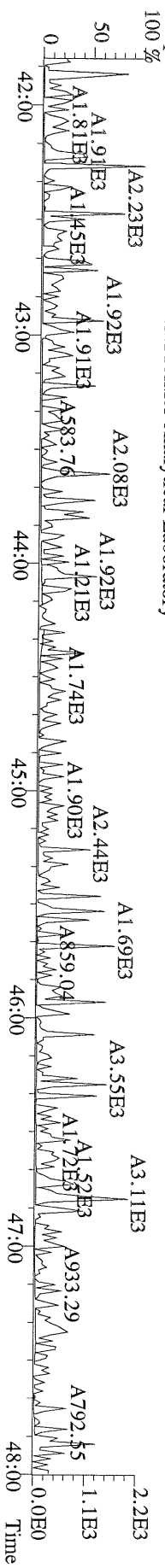
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417.8253 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



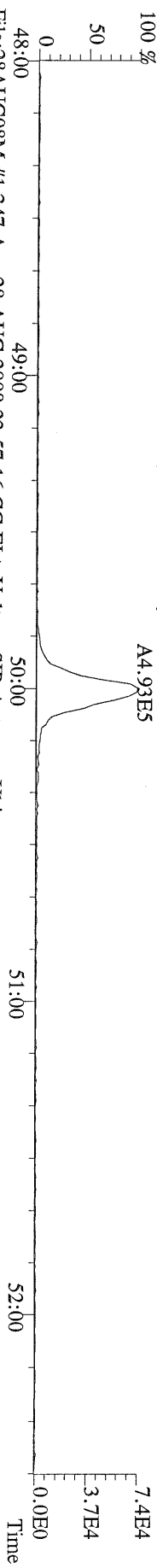
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419.8220 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-541 Acq:28-AUG-2008 23:57:16 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:12 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



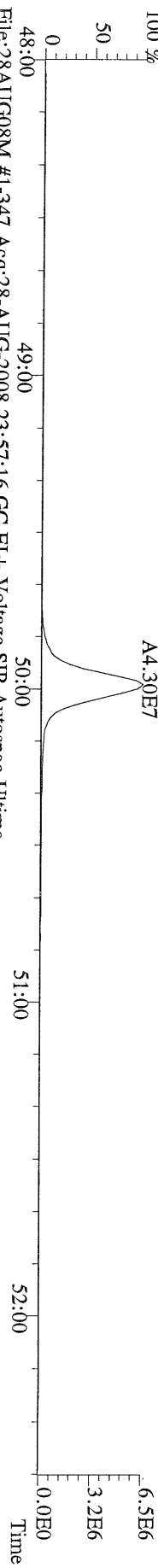
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441.7428 S:12 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M1 File Text:Frontier Analytical Laboratory



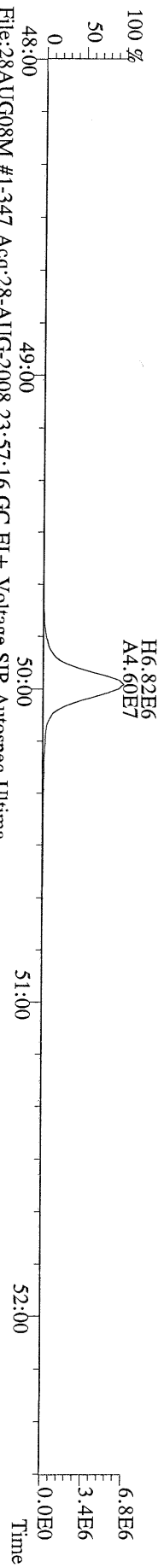
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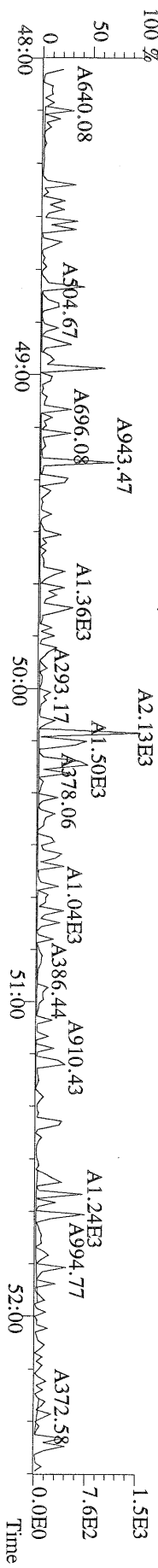
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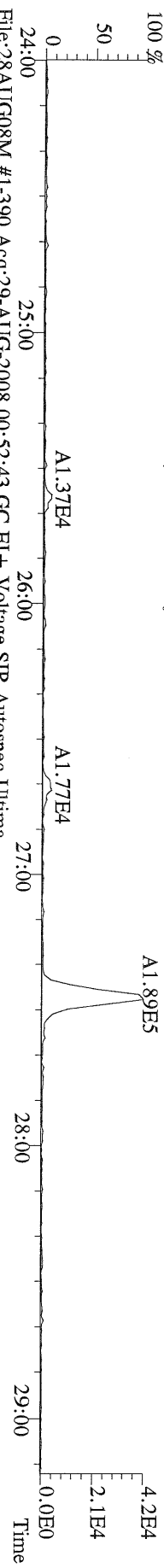
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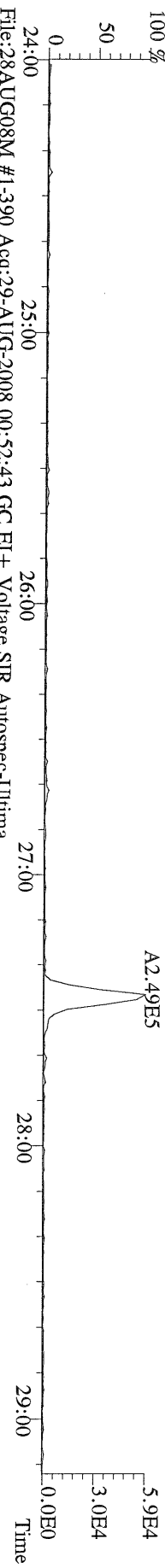
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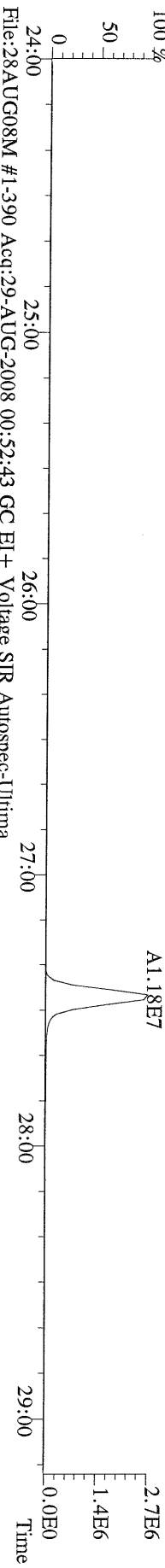
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319.8965 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



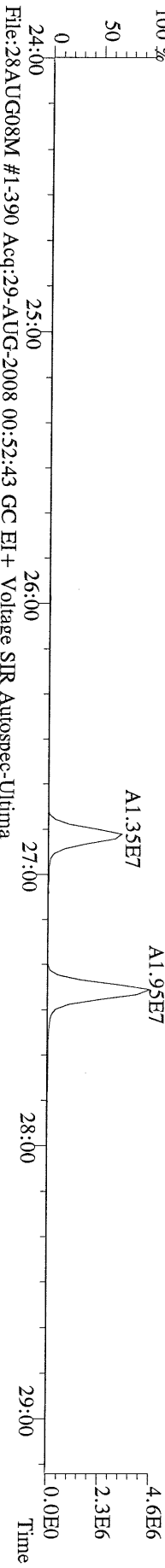
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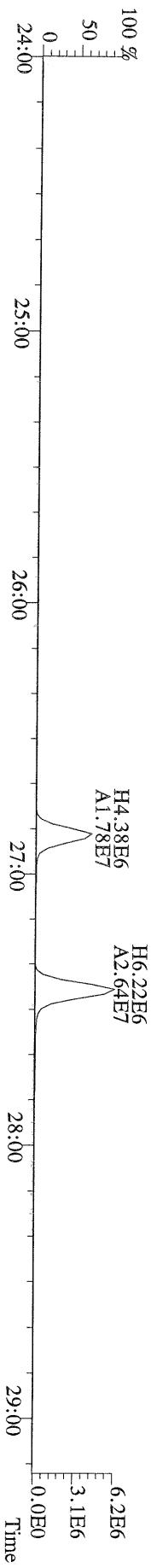
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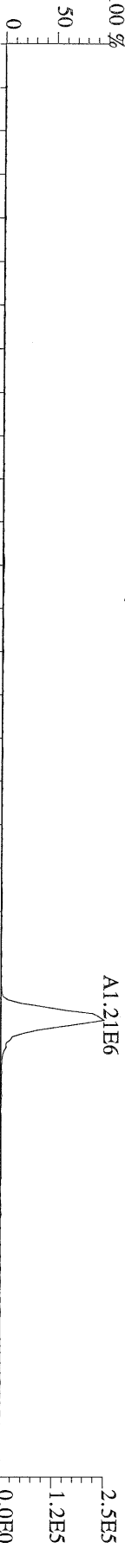
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



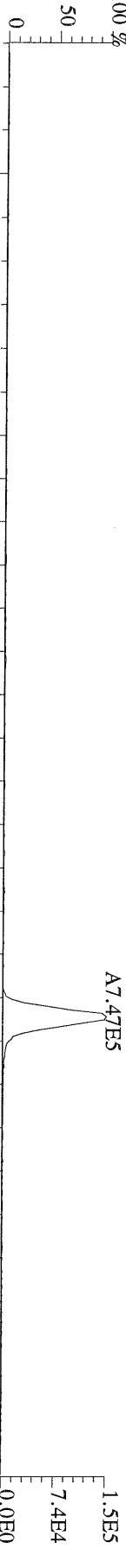
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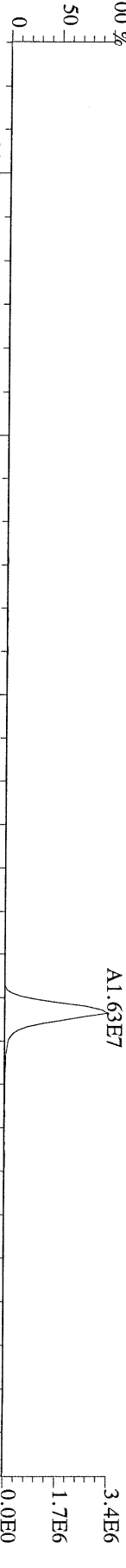
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355.8546 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



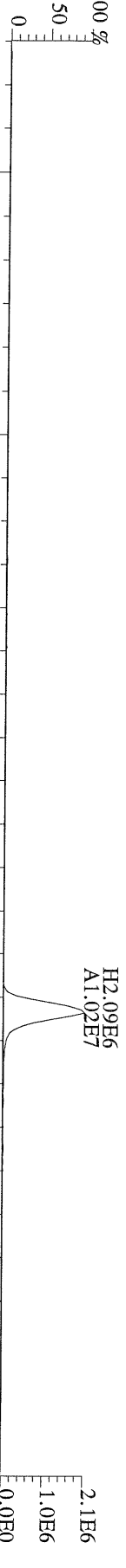
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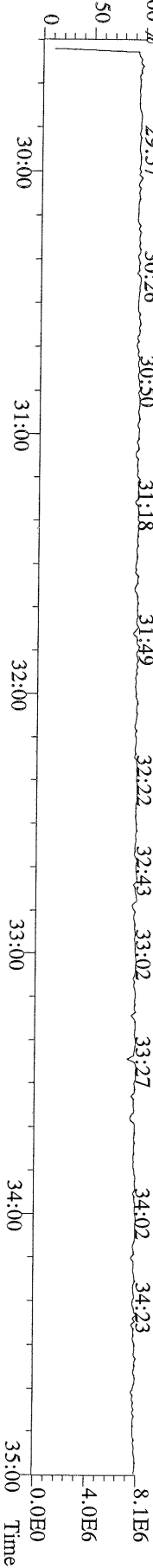
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



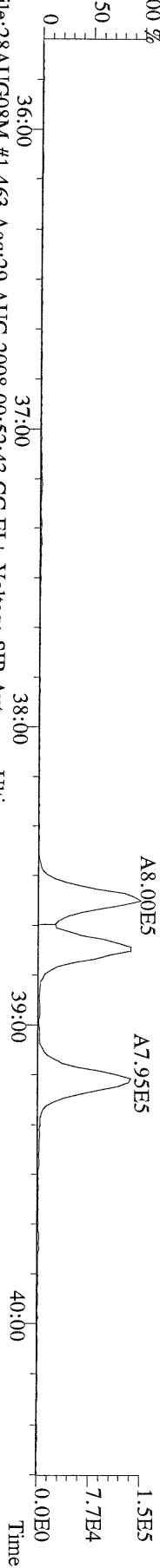
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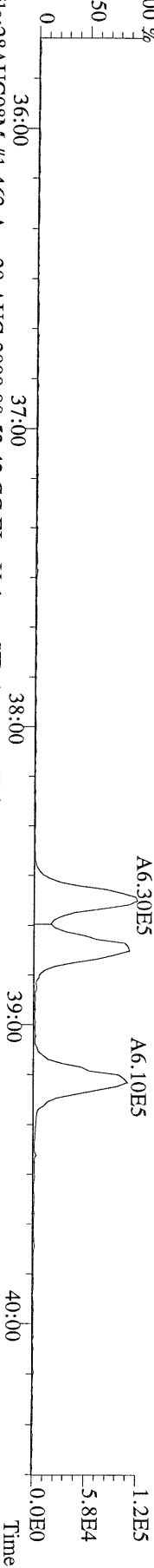
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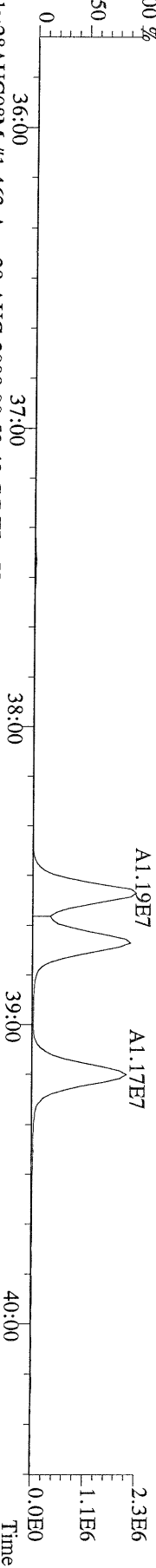
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389.8156 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



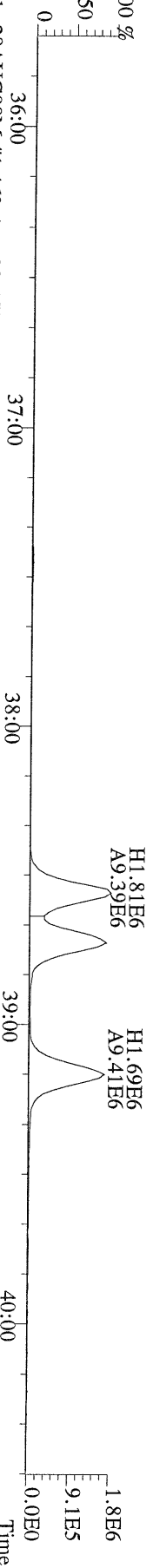
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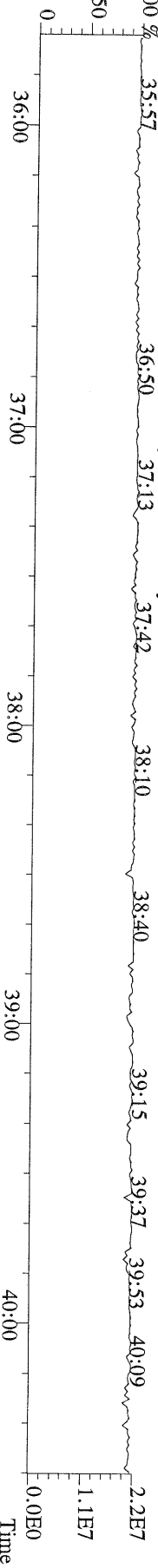
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



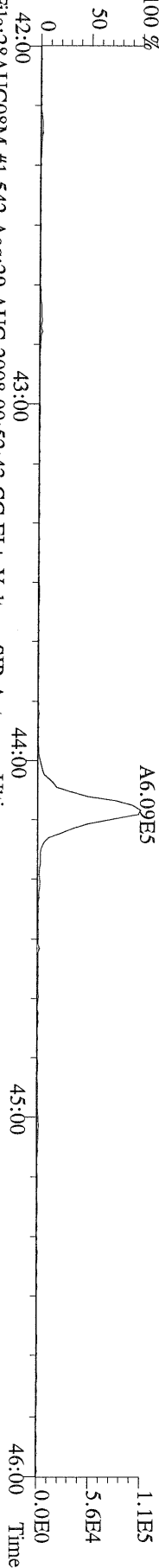
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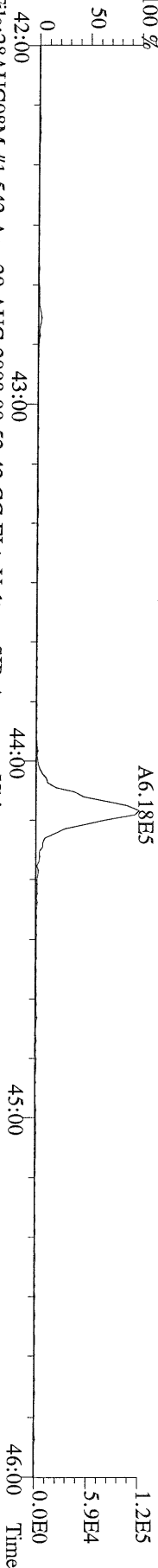
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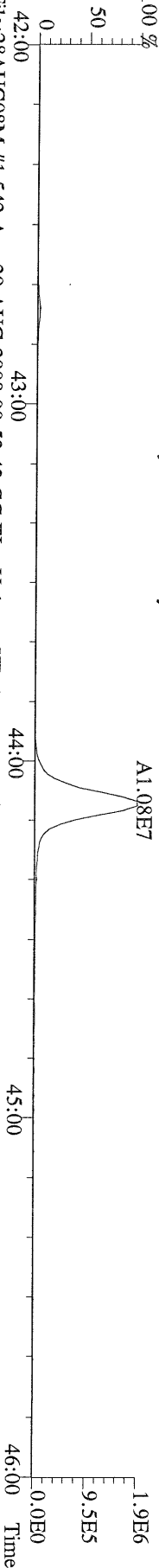
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423.7767 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



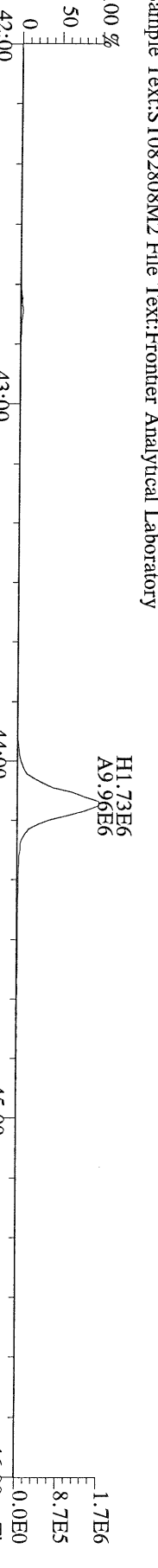
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425.7737 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



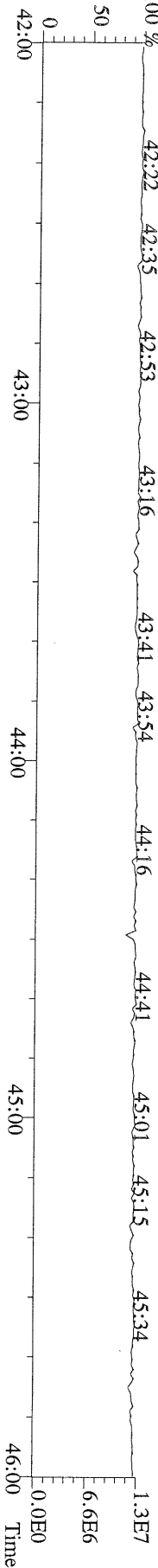
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435.8169 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



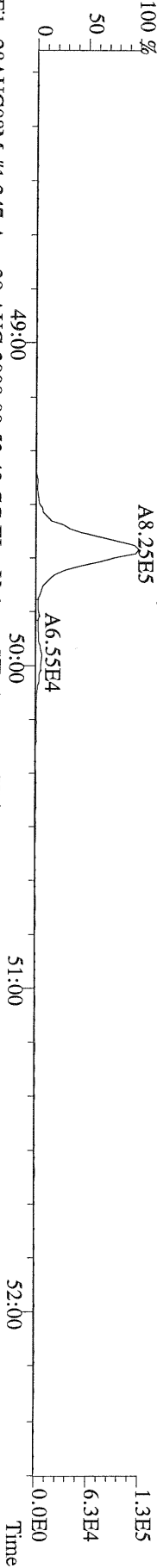
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437.8140 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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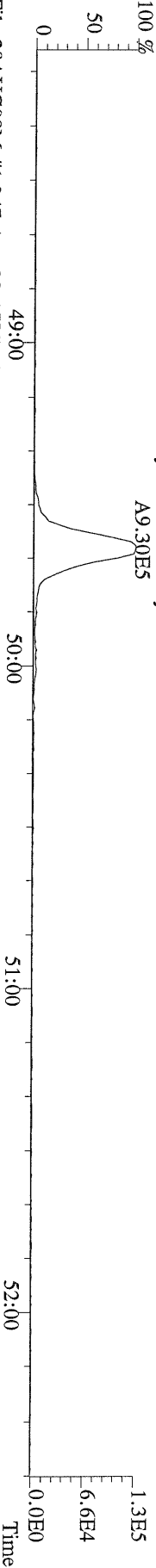
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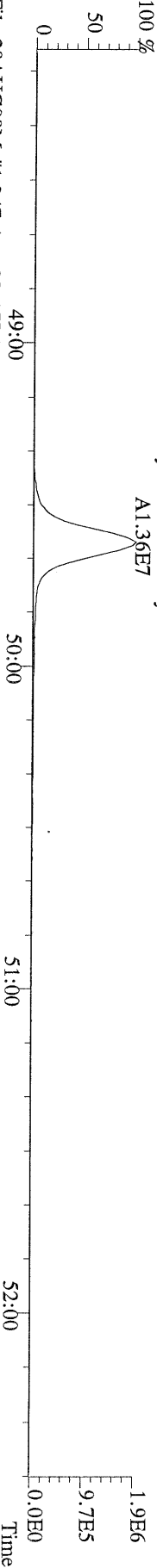
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457.7377 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory
100 %



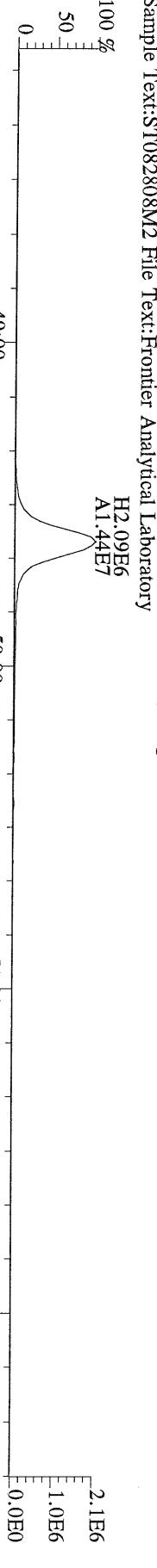
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459.7348 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory
100 %



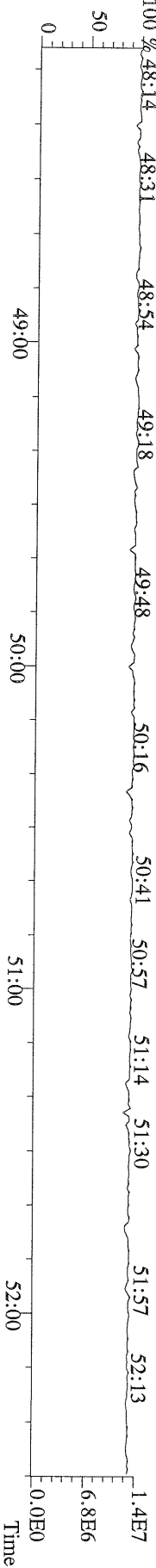
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469.7780 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory
100 %



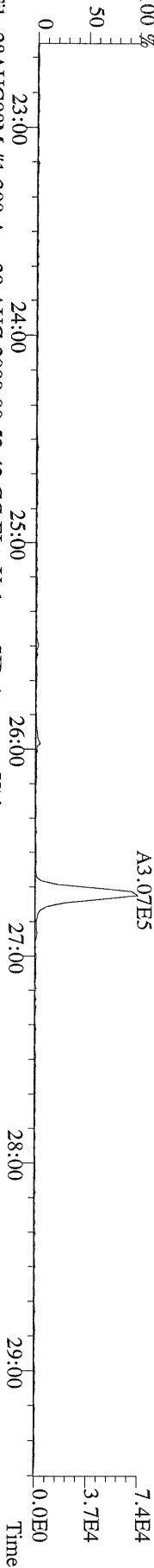
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471.7750 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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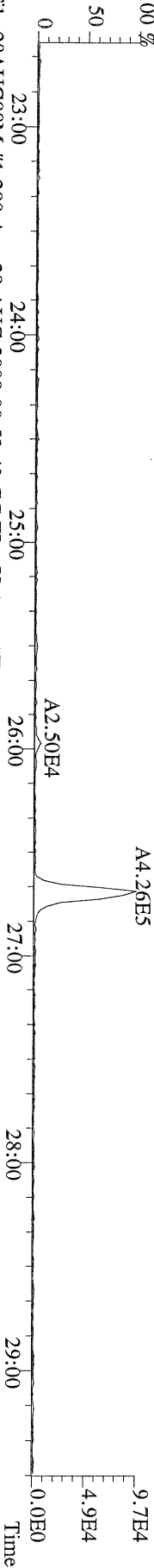
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454.9728 S:13 F:5 Exp:PCDD
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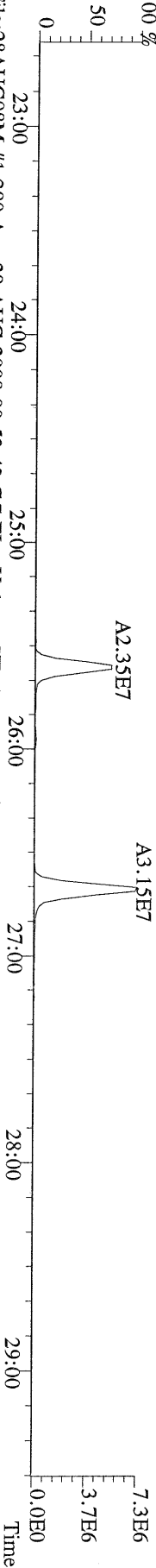
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303.9016 S:13 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
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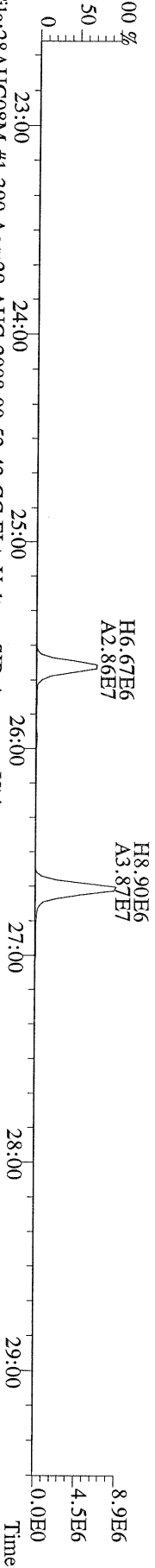
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305.8987 S:13 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



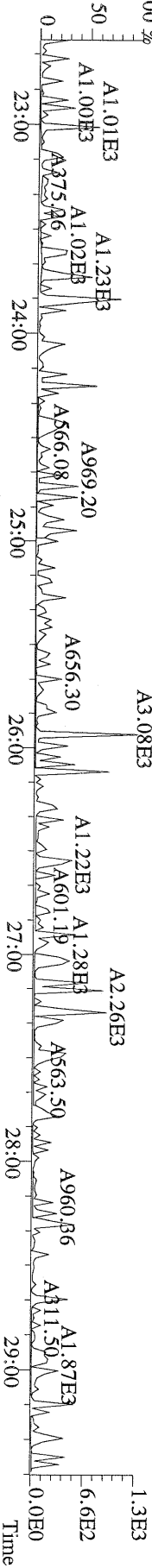
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315.9419 S:13 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



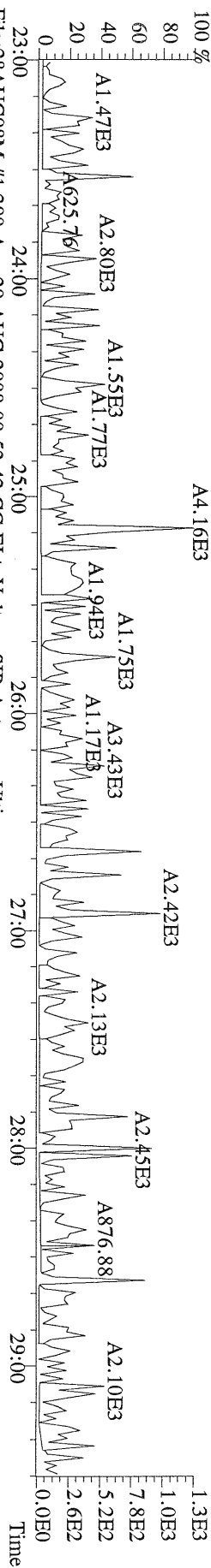
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



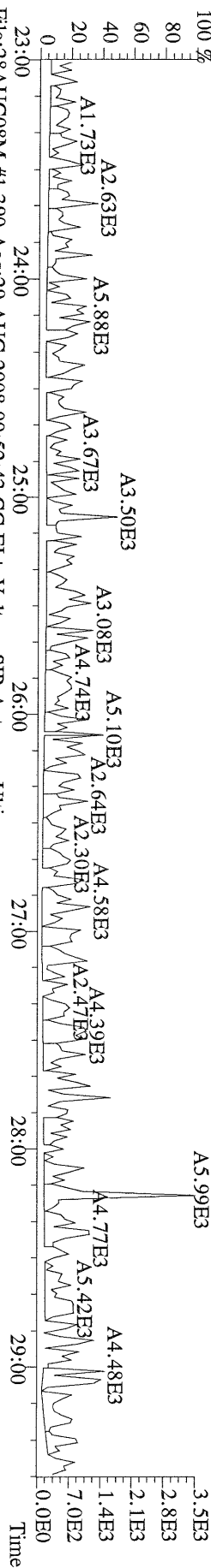
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375.8364 S:13 BSUB(10000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



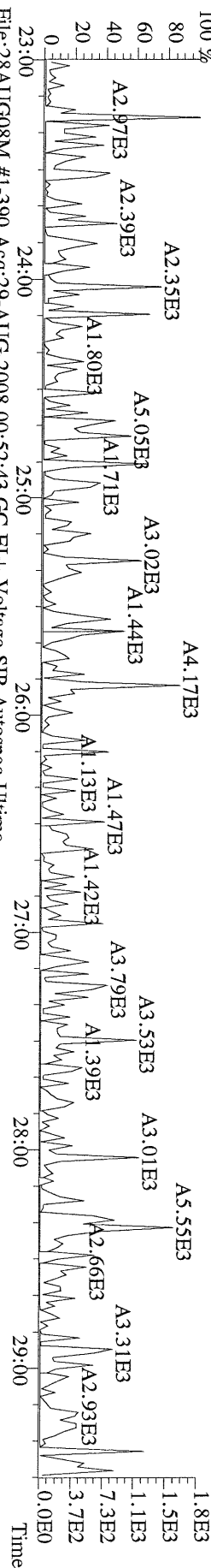
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339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



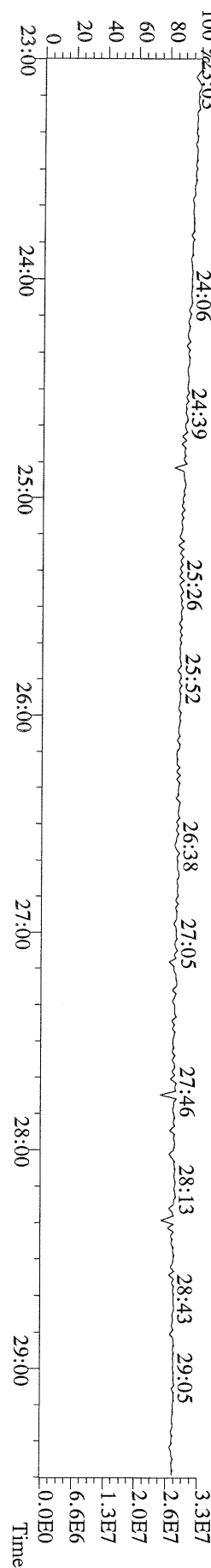
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341.8568 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



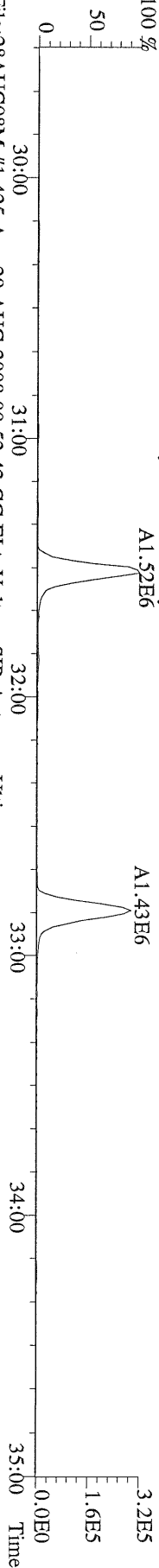
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409.7974 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



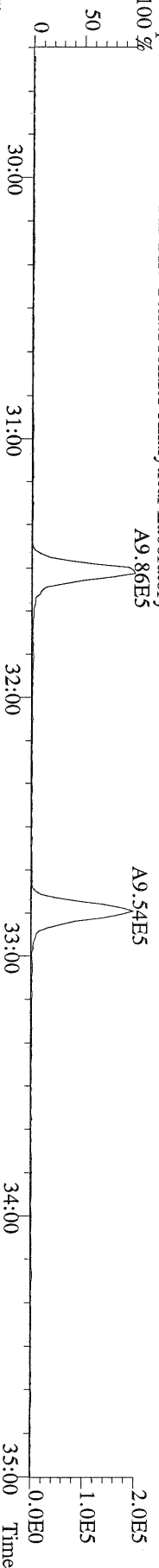
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



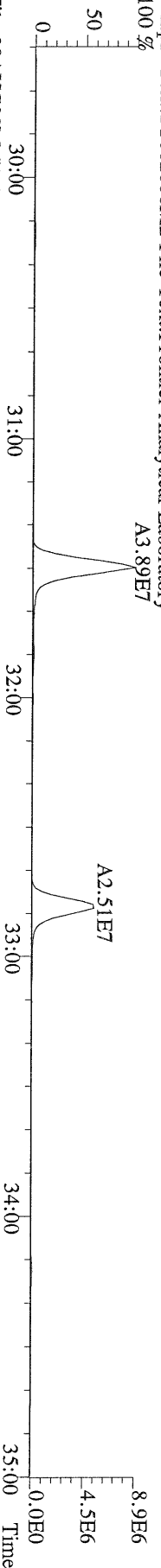
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339.8597 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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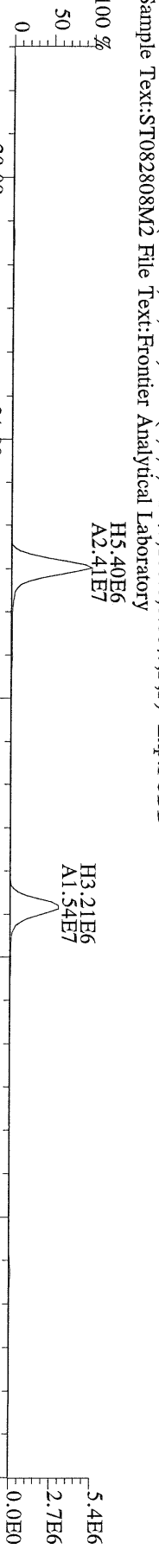
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341.8568 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



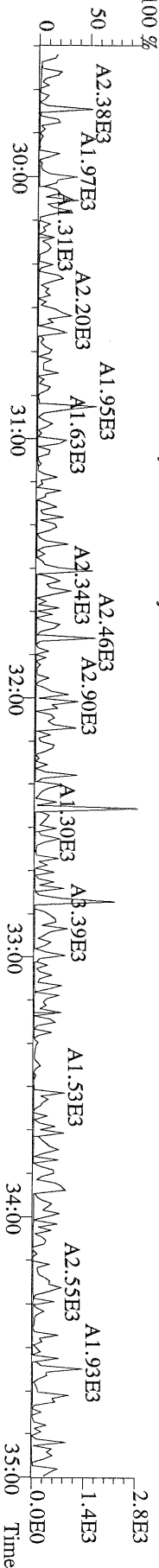
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351.9000 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



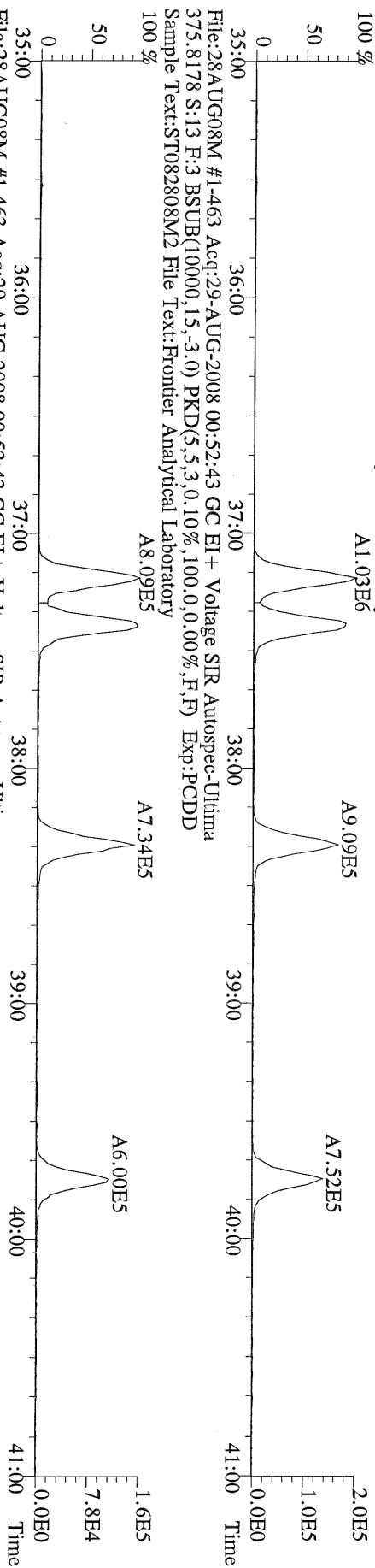
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353.8970 S:13 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



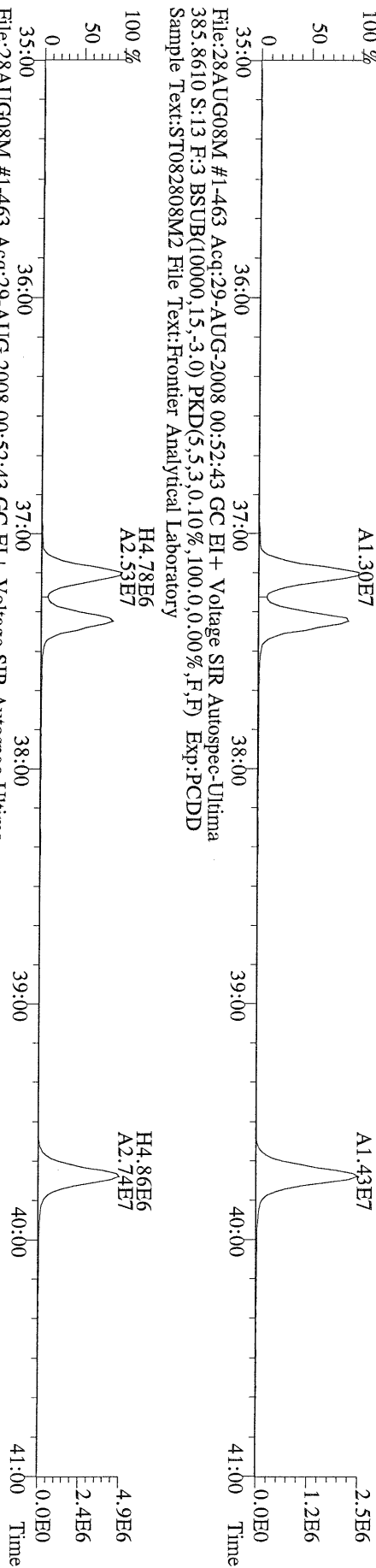
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



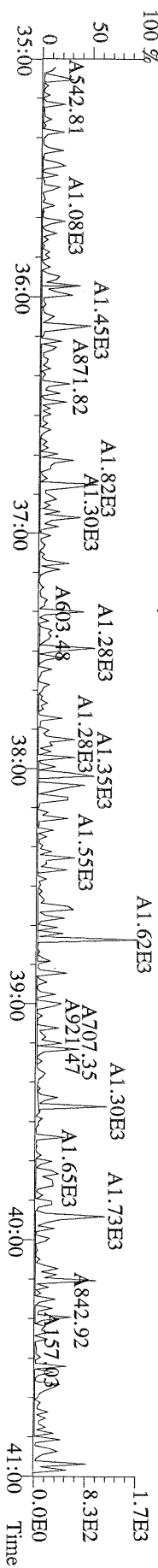
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373.8207 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



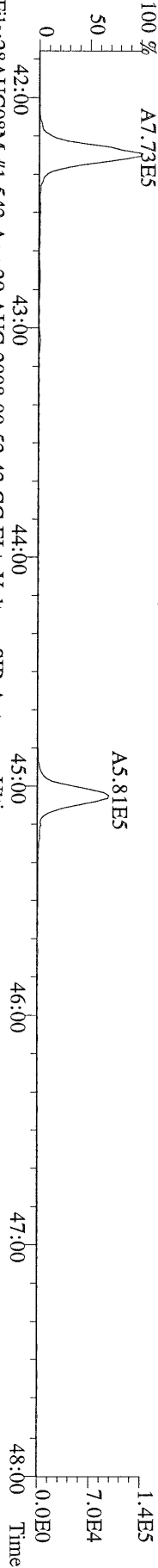
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383.8639 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



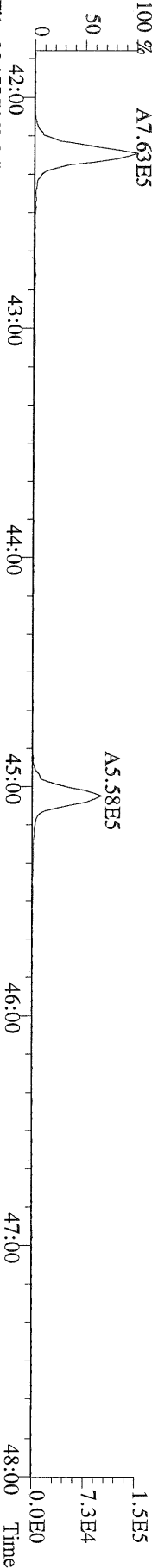
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445.7555 S:13 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



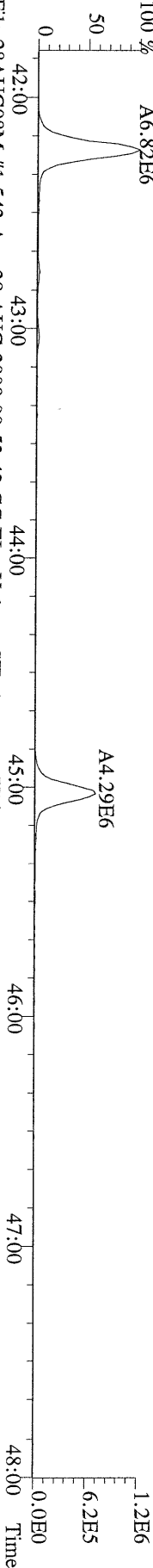
File:28AUG08M #1-542 Acq:29-AUG-2008 00:52:43 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



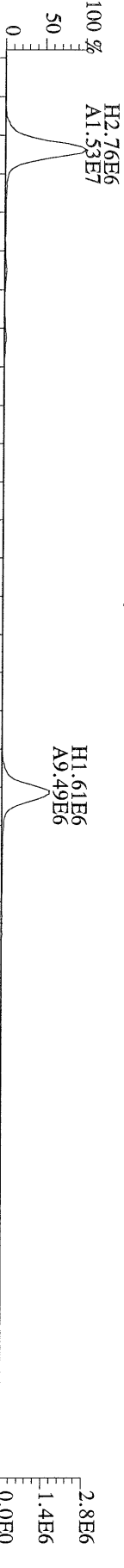
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409.7788 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



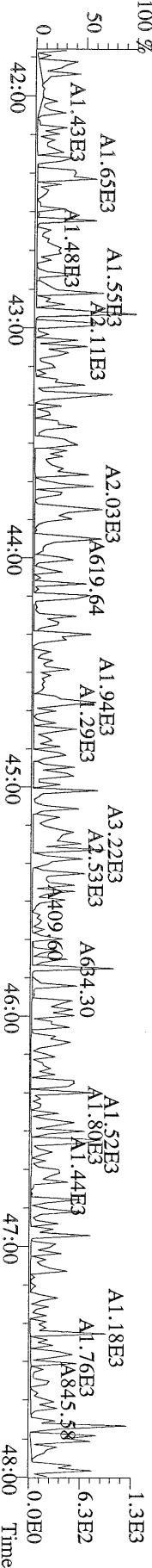
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



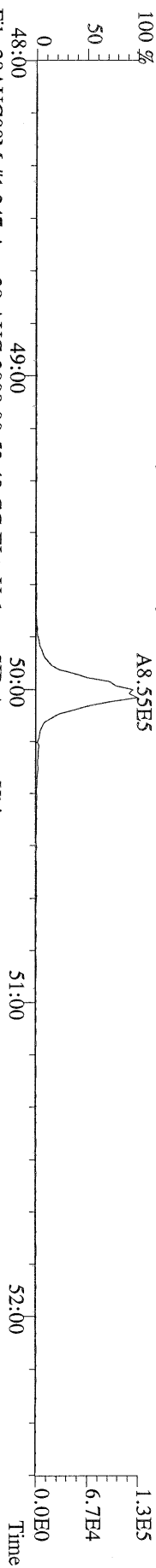
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Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



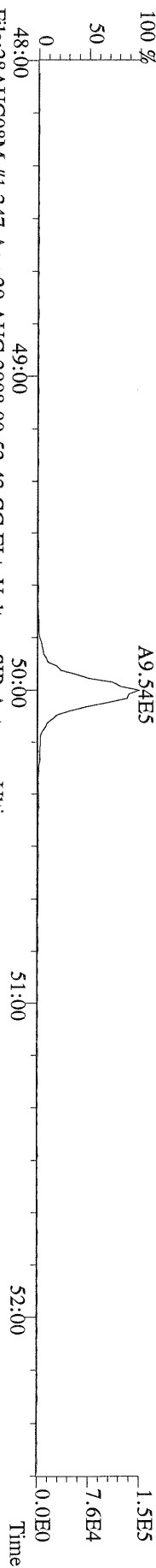
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479.7165 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



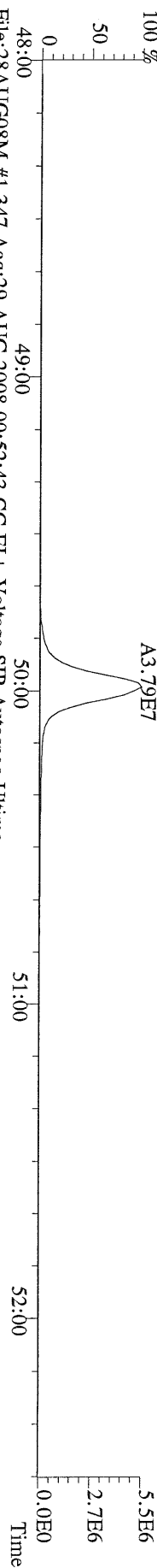
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441.7428 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



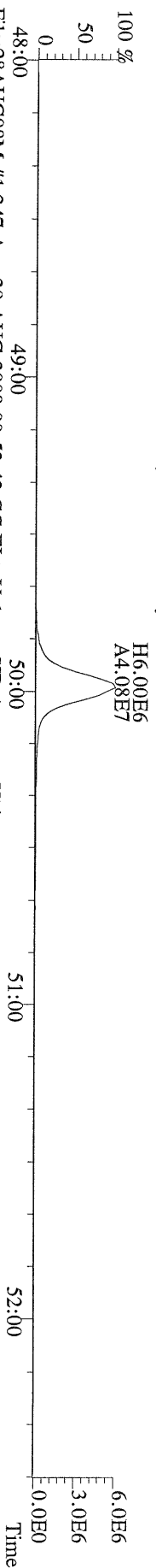
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443.7398 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



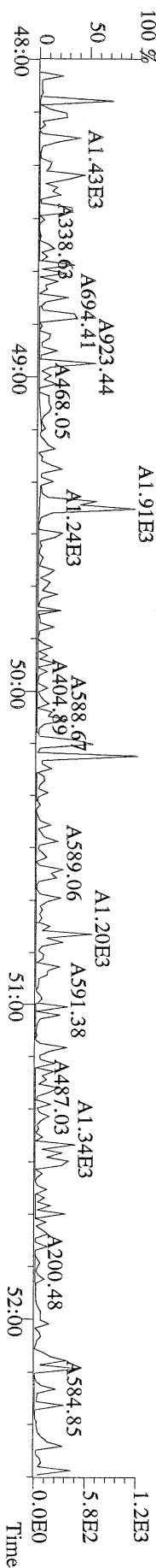
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453.7831 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M2 File Text:Frontier Analytical Laboratory



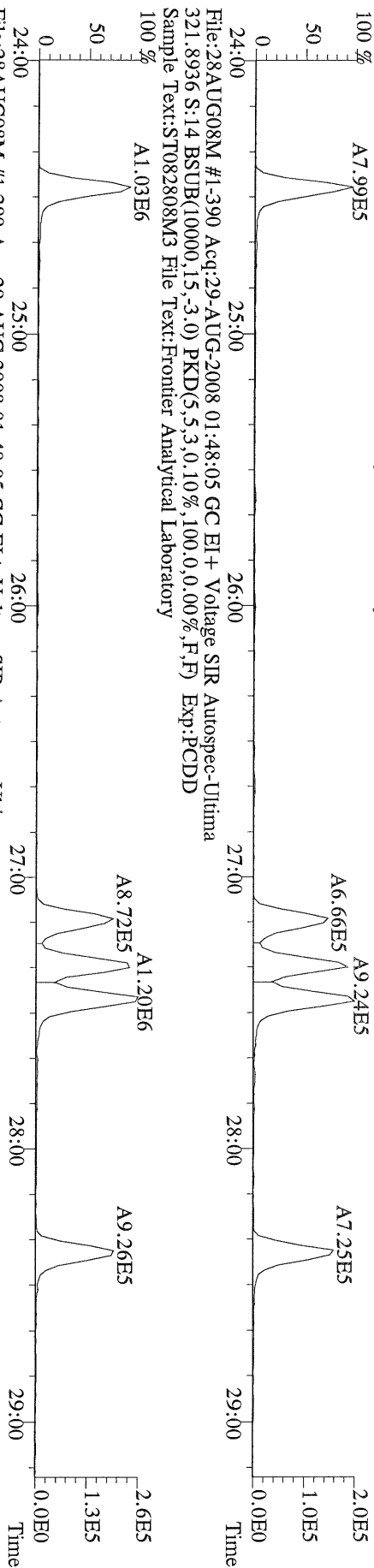
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455.7801 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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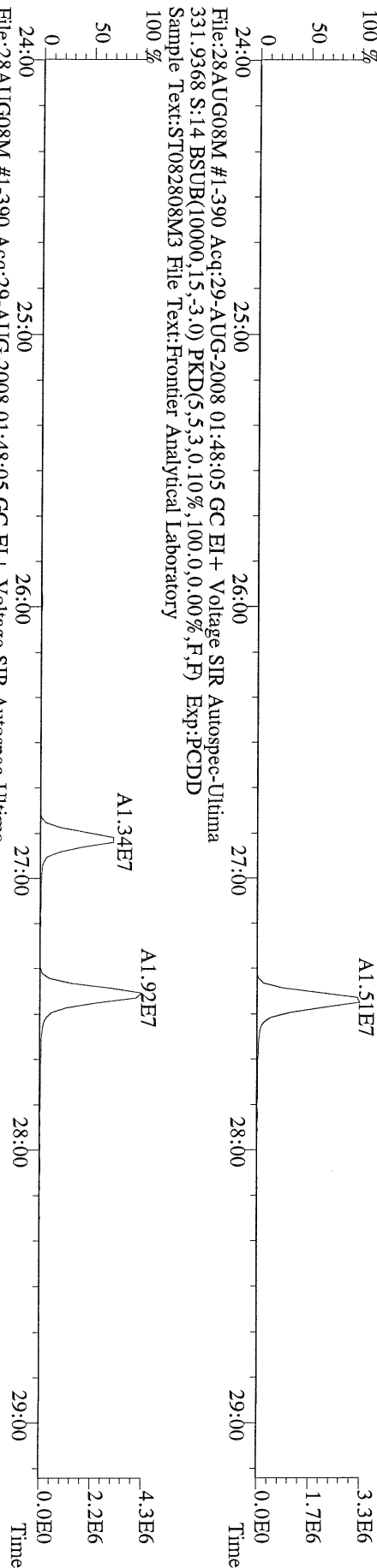
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513.6775 S:13 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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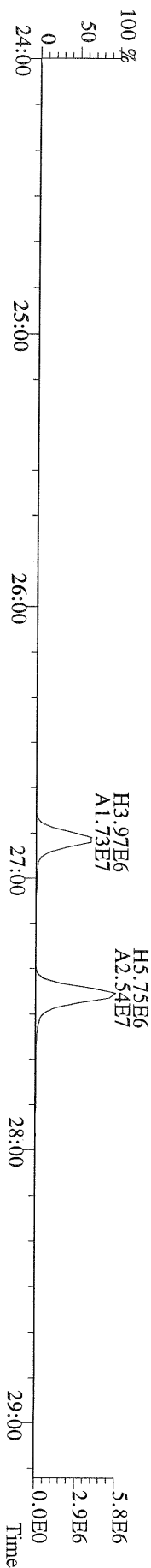
File:28AUG08M #1-390 Acq:29-AUG-2008 01:48:05 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



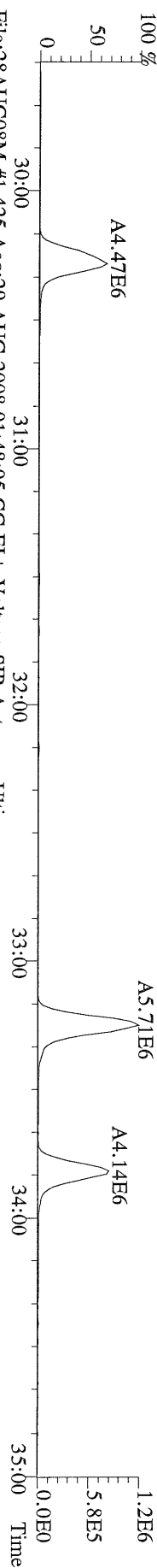
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327.8847 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



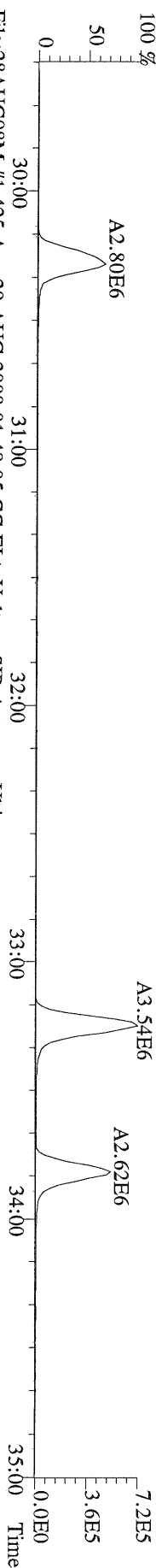
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331.9368 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



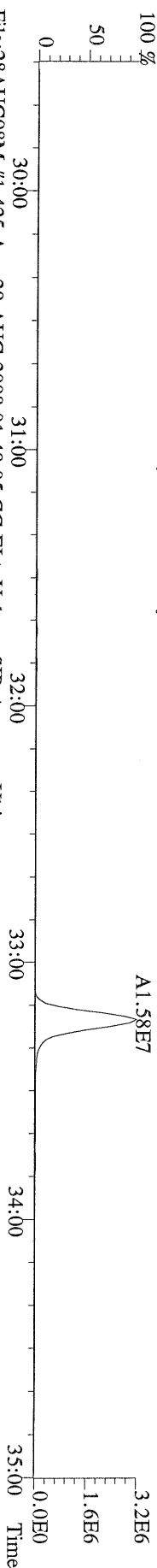
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355.8546 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



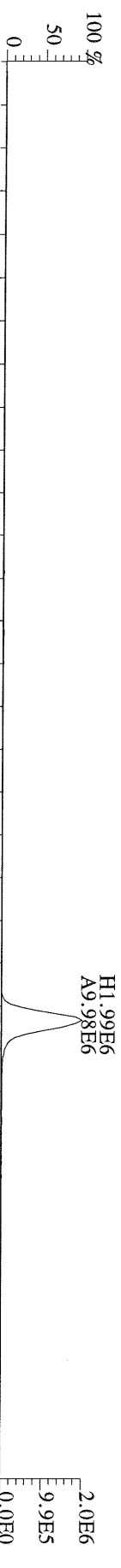
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357.8517 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



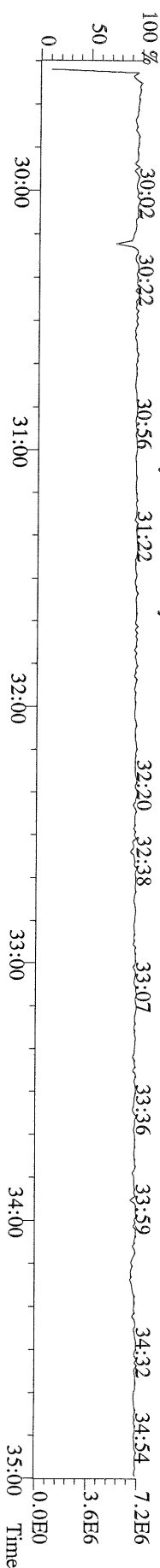
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367.8949 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



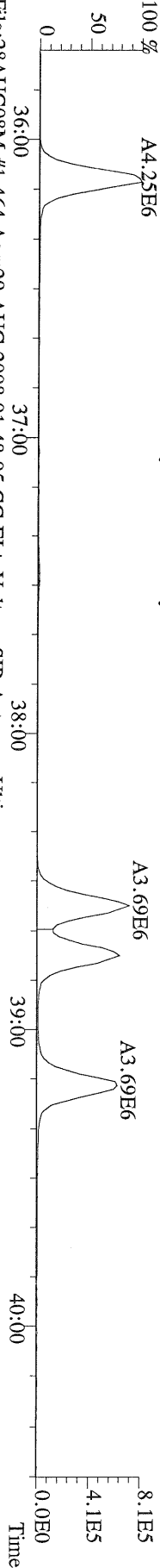
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369.8919 S:14 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



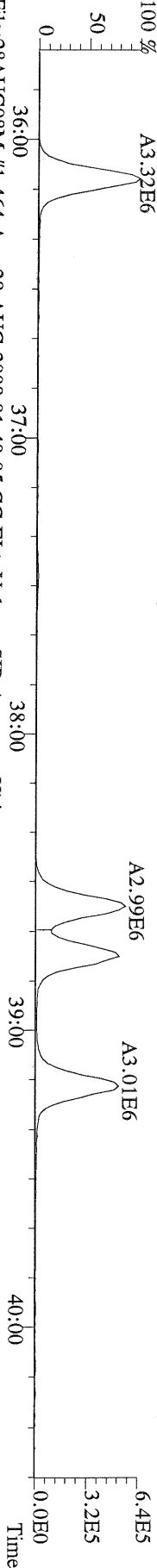
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366.9792 S:14 F:2 Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



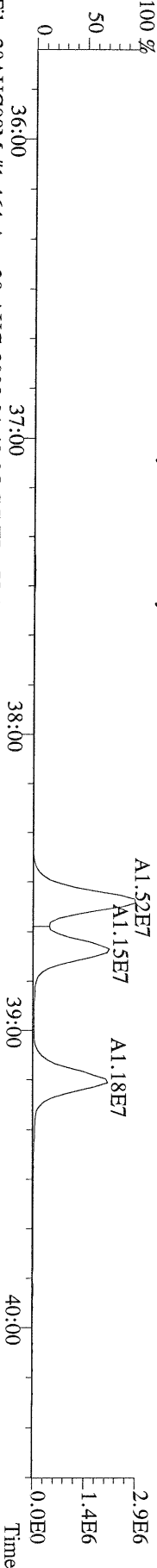
File:28AUG08M #1-464 Acq:29-AUG-2008 01:48:05 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



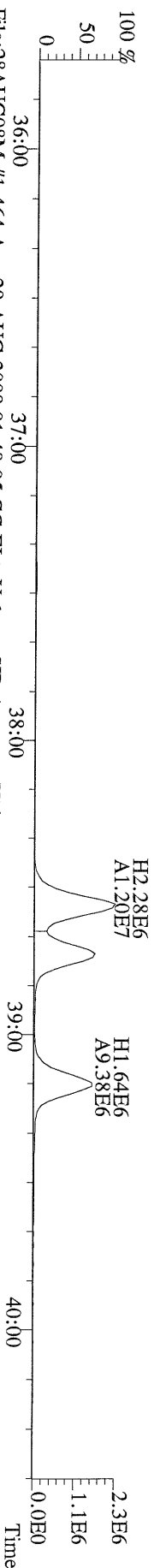
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391.8127 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



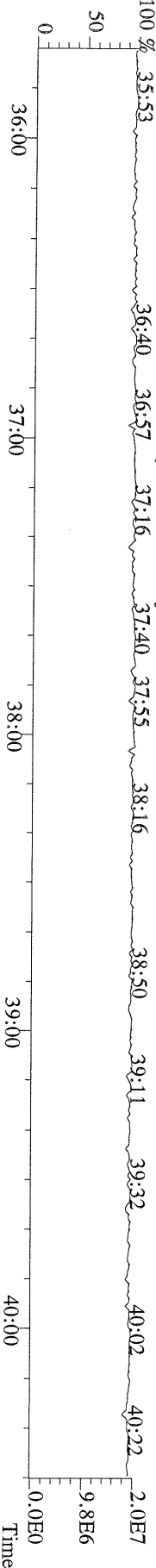
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401.8559 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



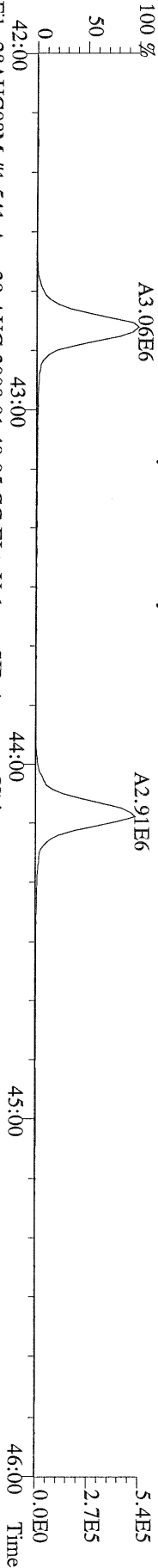
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403.8530 S:14 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
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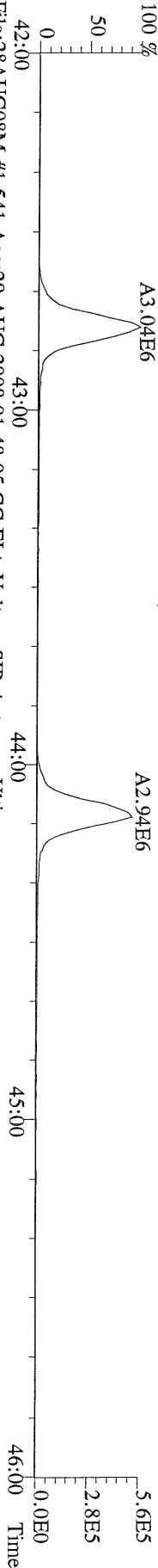
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380.9760 S:14 F:3 Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



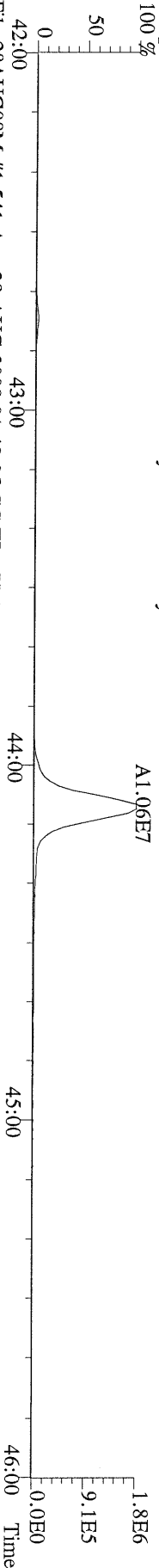
File:28AUG08M #1-541 Acq:29-AUG-2008 01:48:05 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



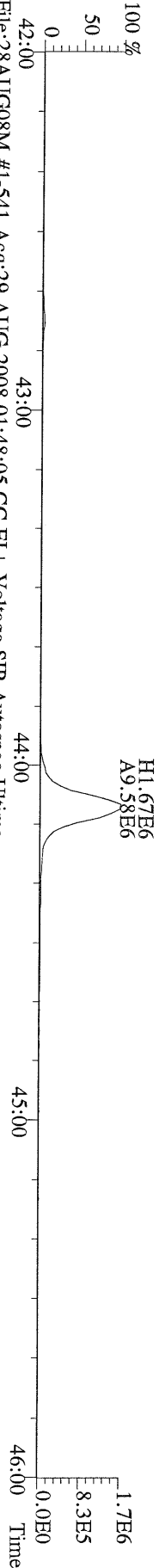
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425.7737 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



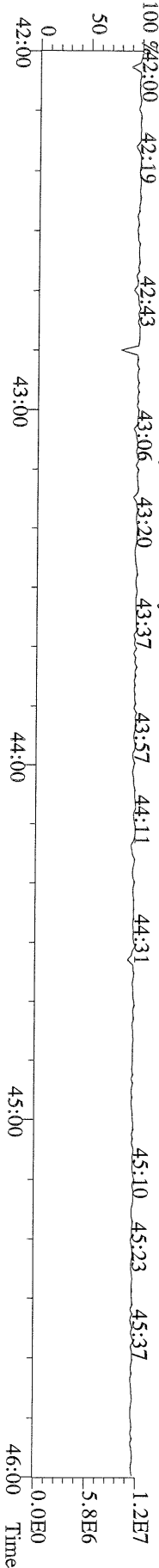
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435.8169 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



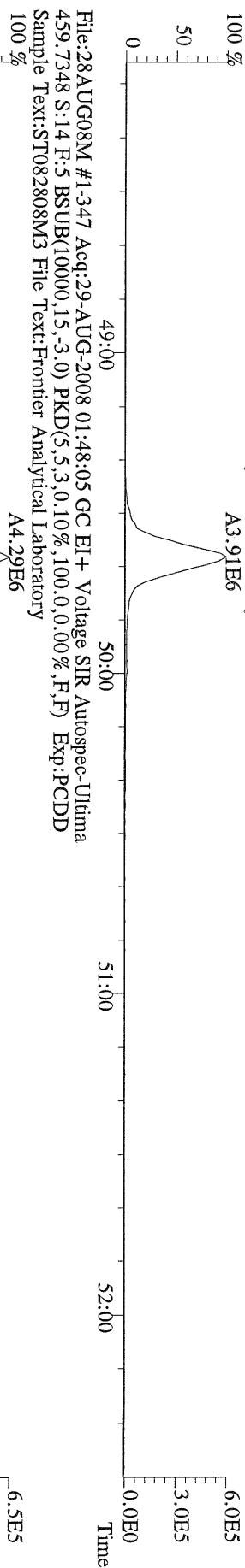
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437.8140 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



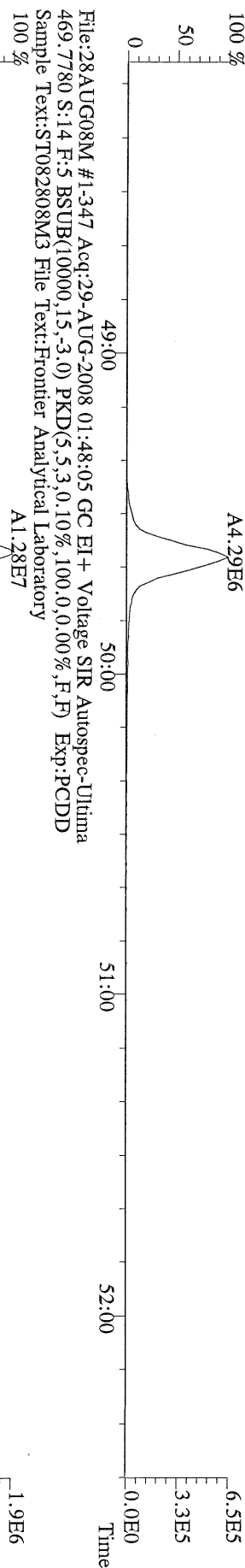
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430.9728 S:14 F:4 Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



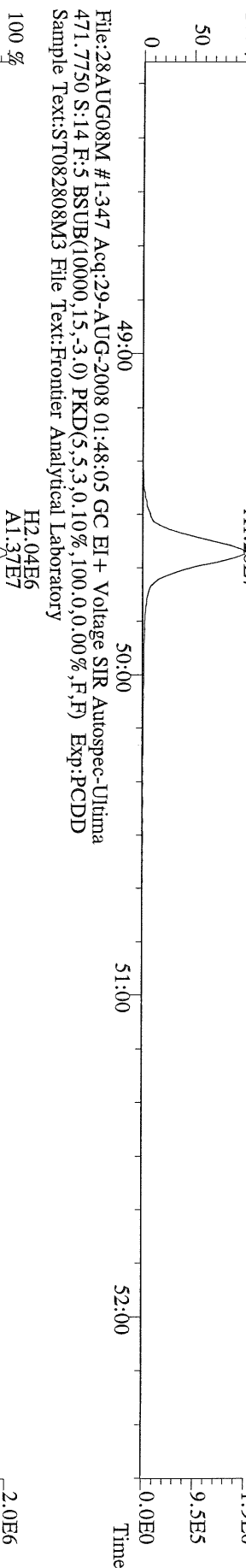
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457.7377 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



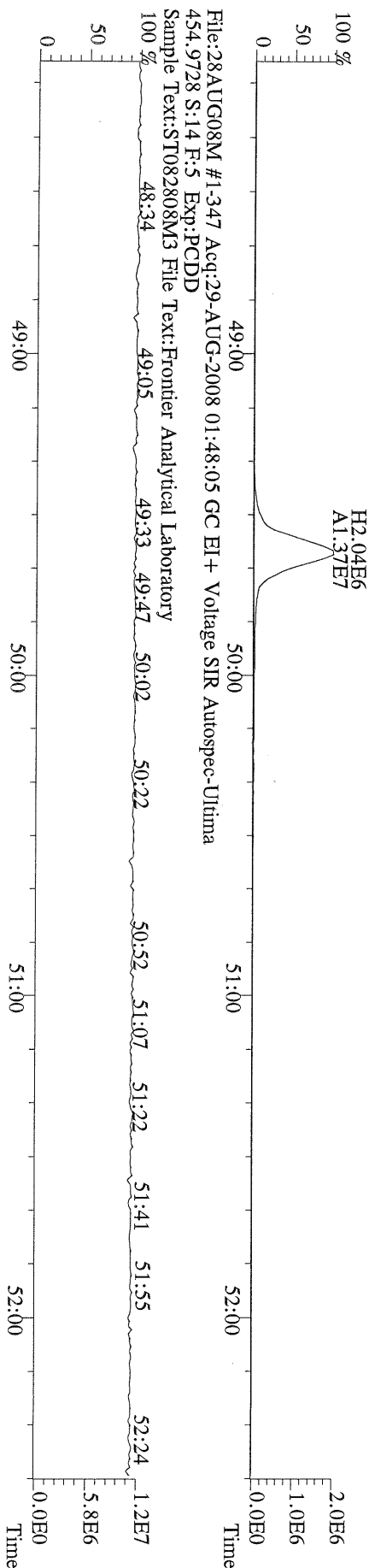
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Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



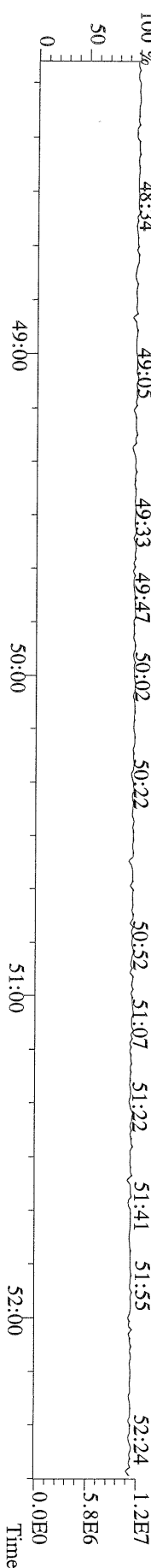
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Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



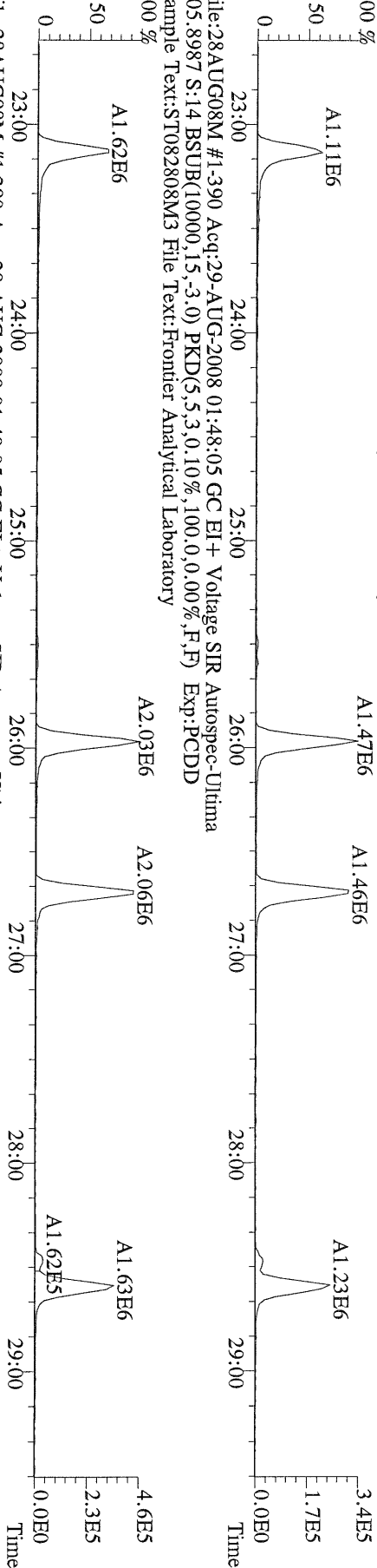
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Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



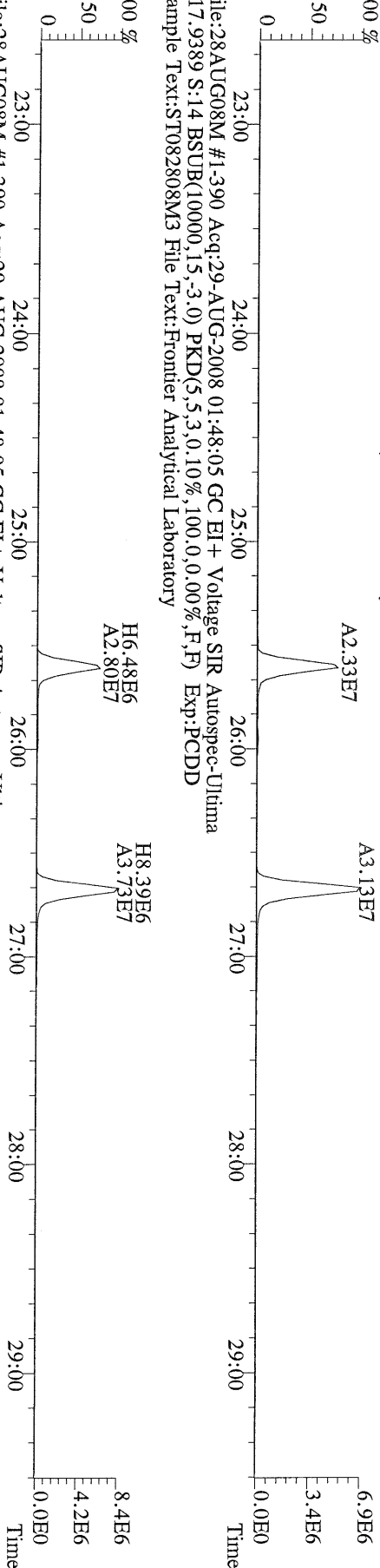
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454.9728 S:14 F:5 Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



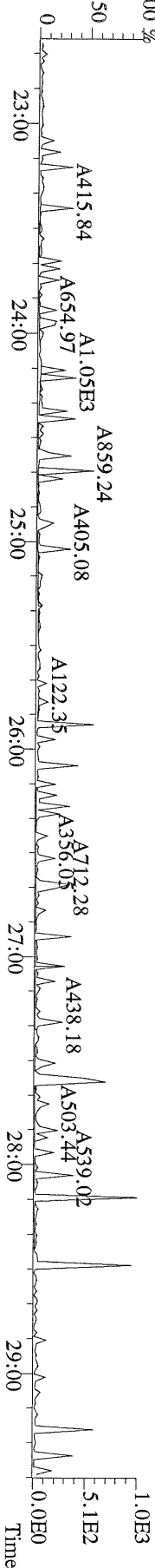
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Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



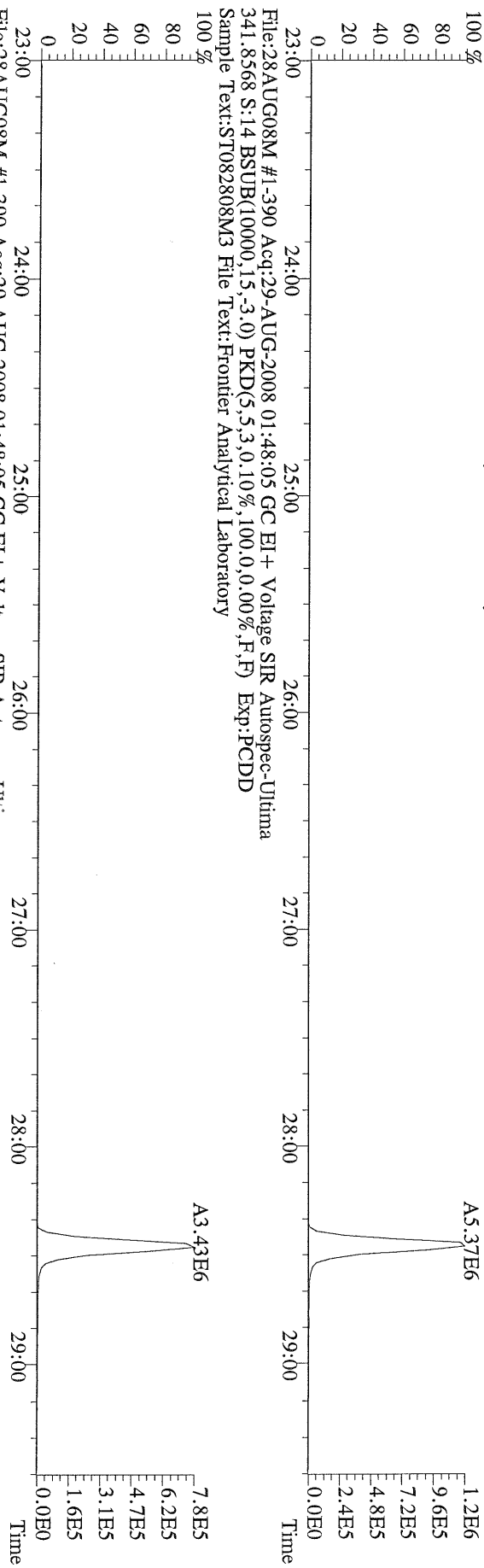
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315.9419 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



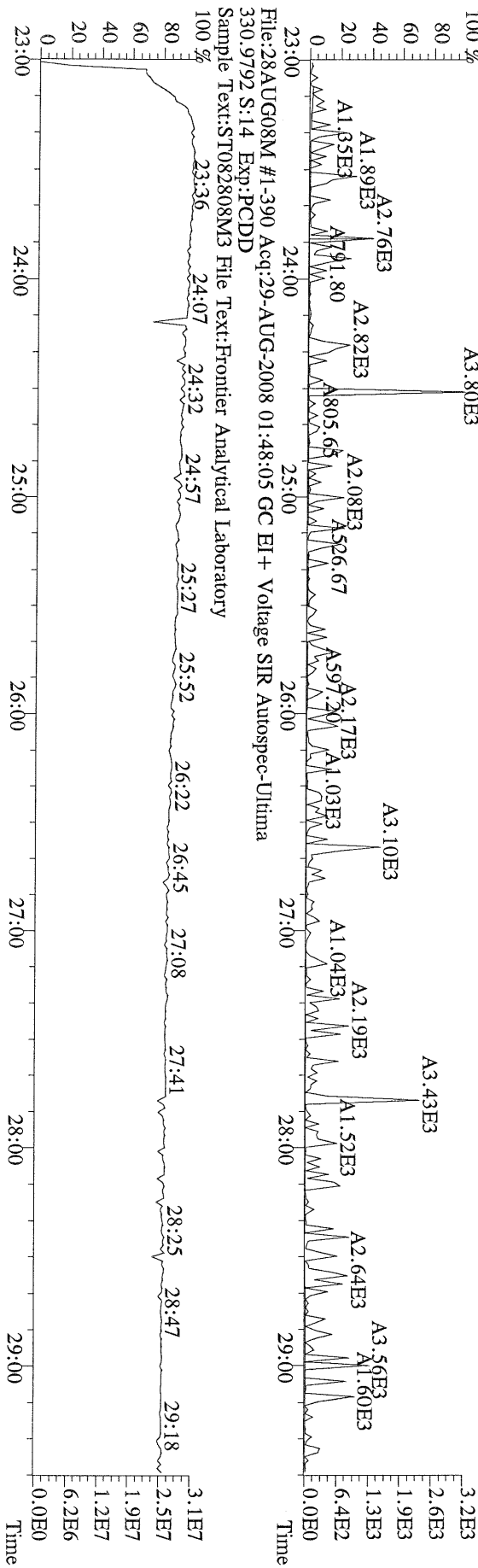
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375.8364 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



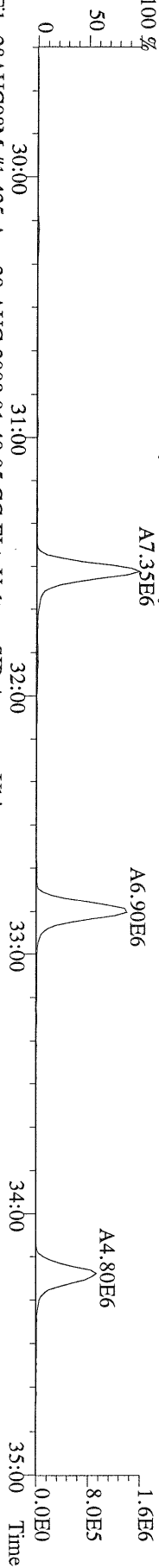
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339.8597 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



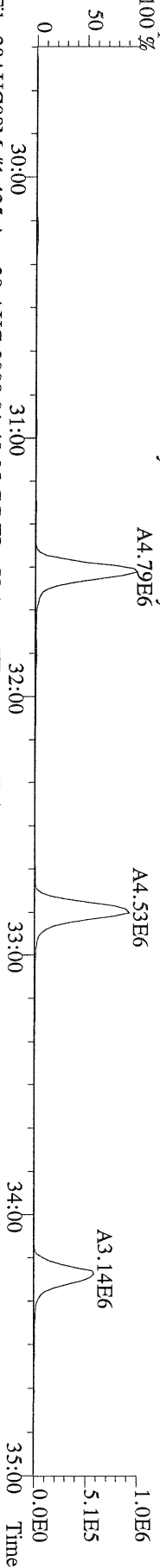
File:28AUG08M #1-390 Acq:29-AUG-2008 01:48:05 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:14 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



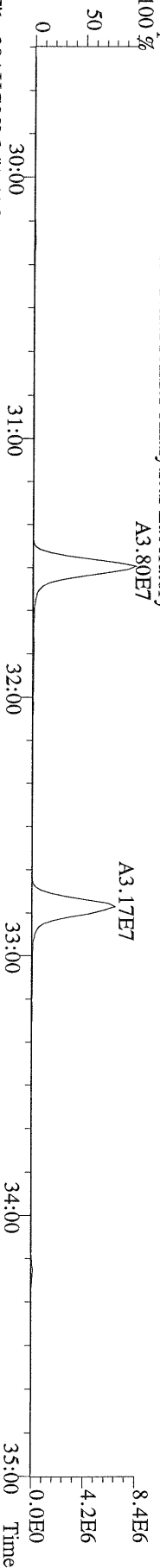
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339.8597 S:14 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



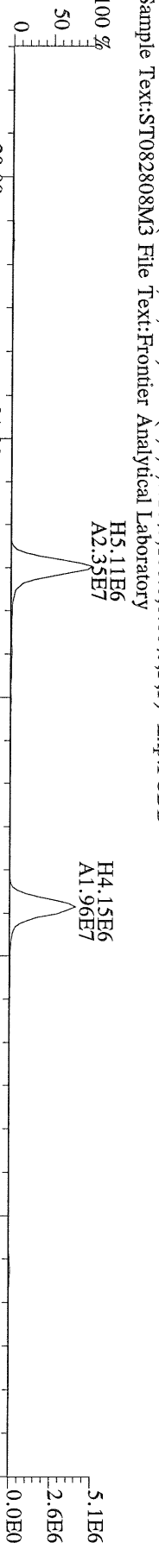
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341.8568 S:14 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



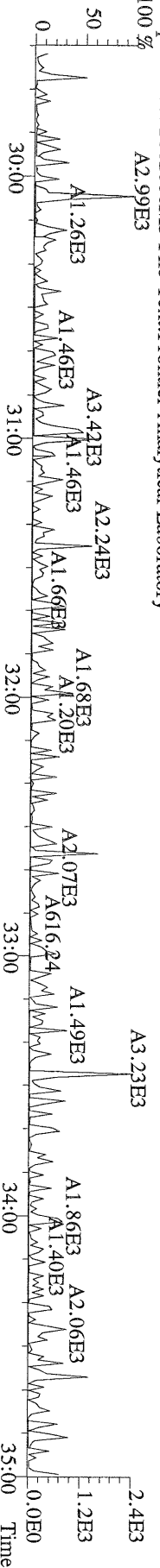
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351.9000 S:14 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



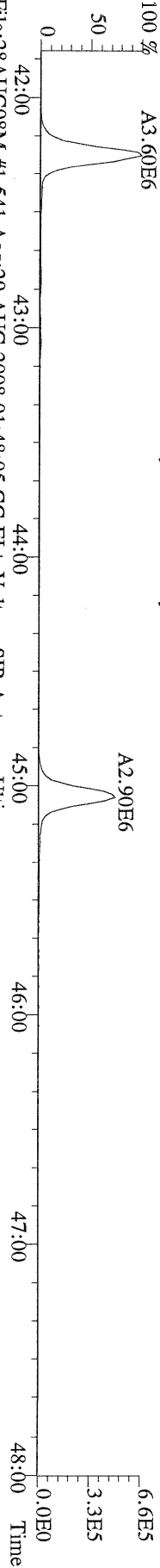
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353.8970 S:14 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



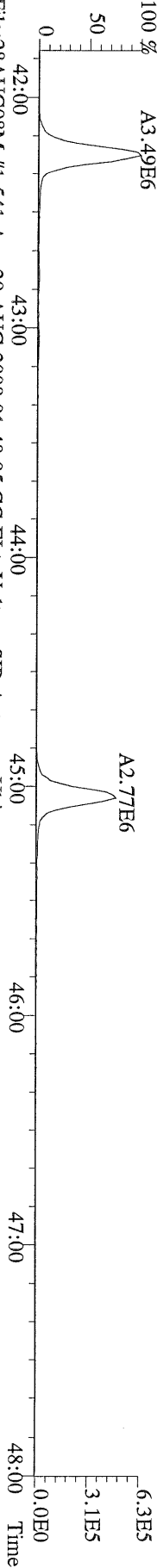
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409.7974 S:14 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



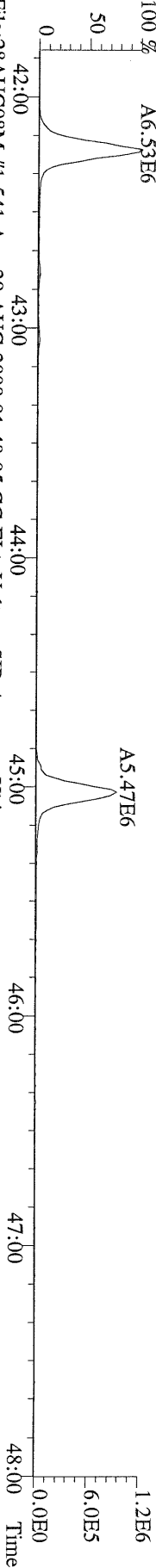
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407.7818 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



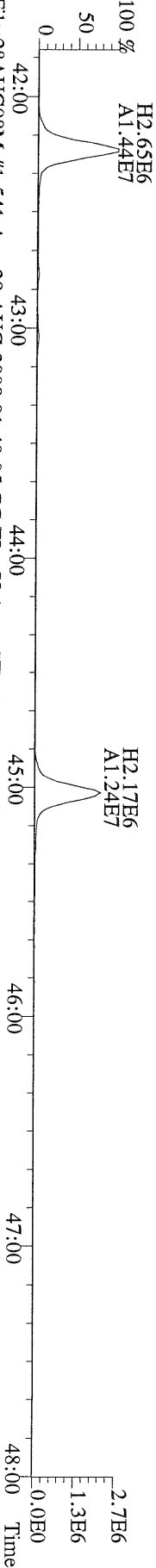
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409.7788 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



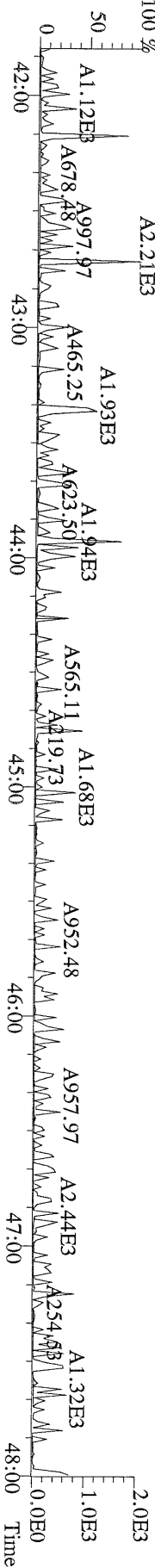
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417.8253 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



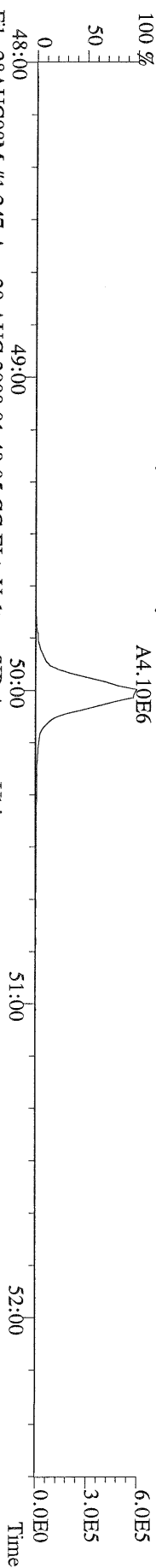
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419.8220 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



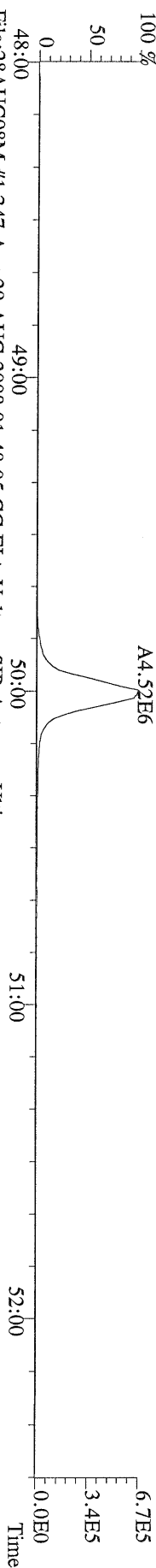
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479.7165 S:14 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-347 Acq:29-AUG-2008 01:48:05 GC EI + Voltage SIR Autospec-Ultima
441.7428 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



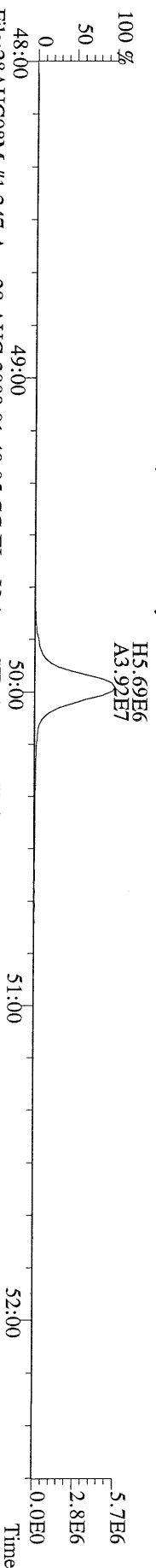
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443.7398 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



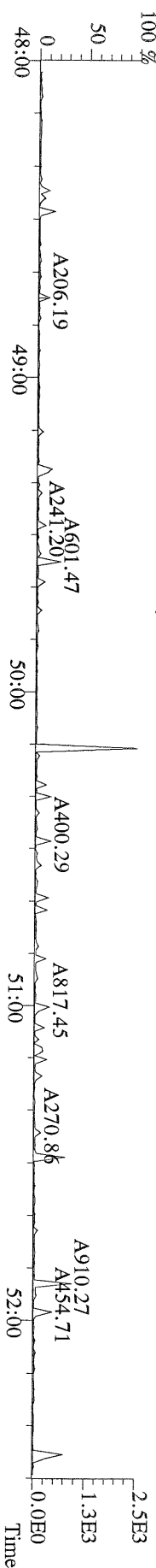
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453.7831 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



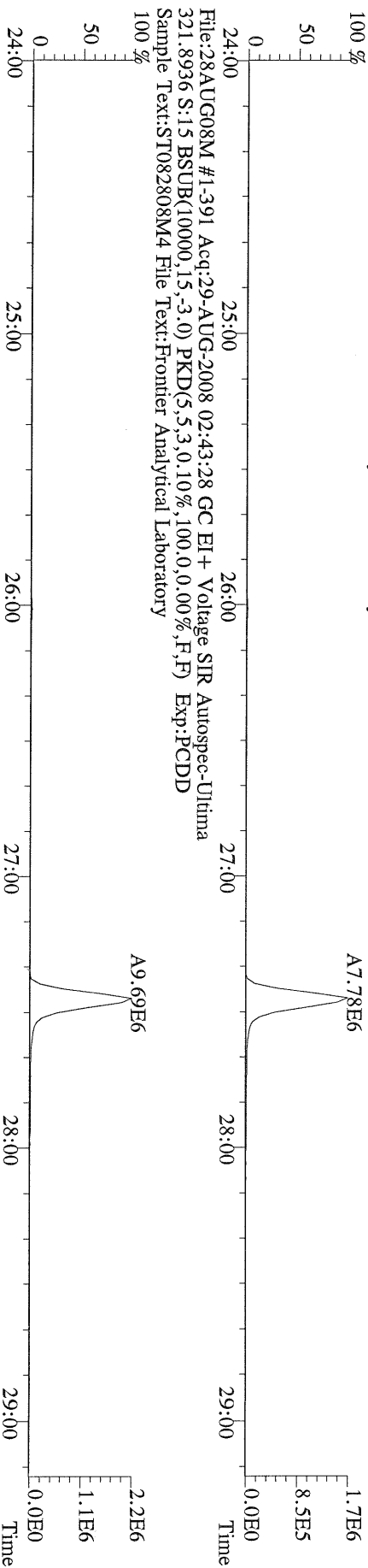
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455.7801 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



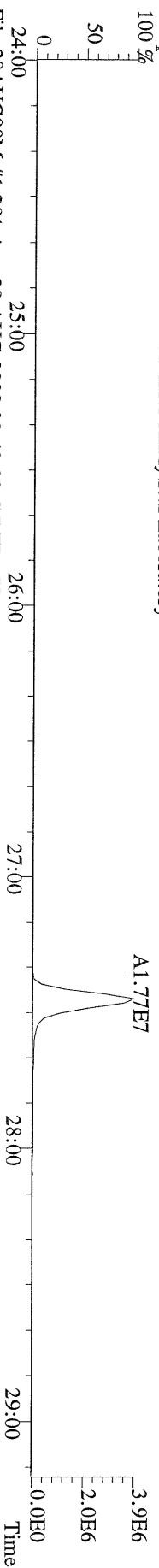
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513.6775 S:14 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M3 File Text:Frontier Analytical Laboratory



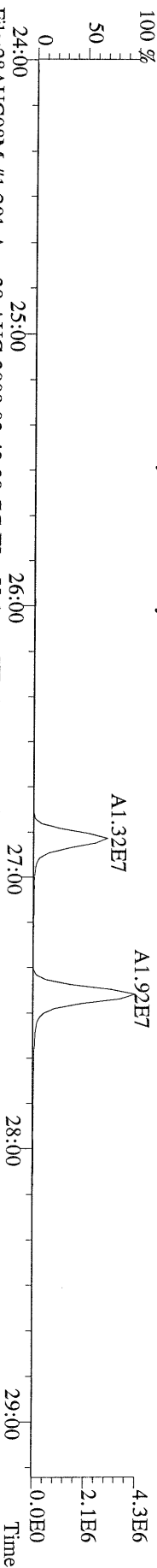
File:28AUG08M #1-391 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



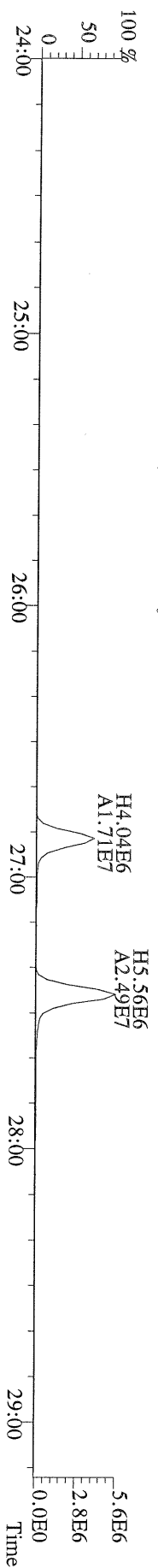
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327.8847 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



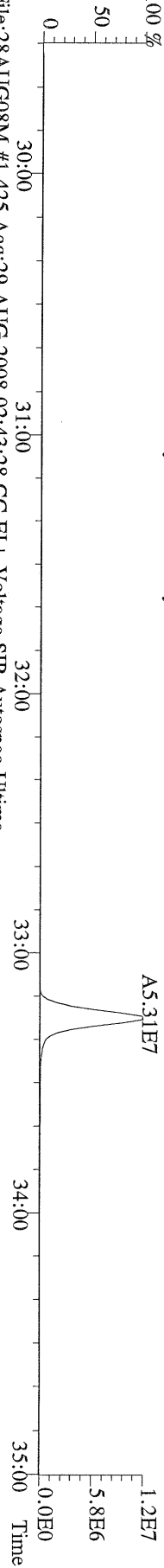
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331.9368 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



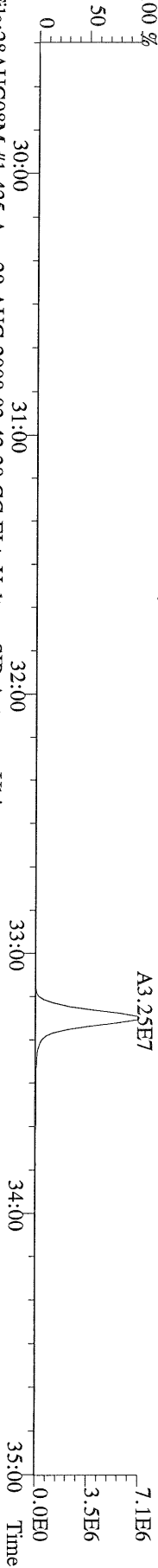
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333.9339 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



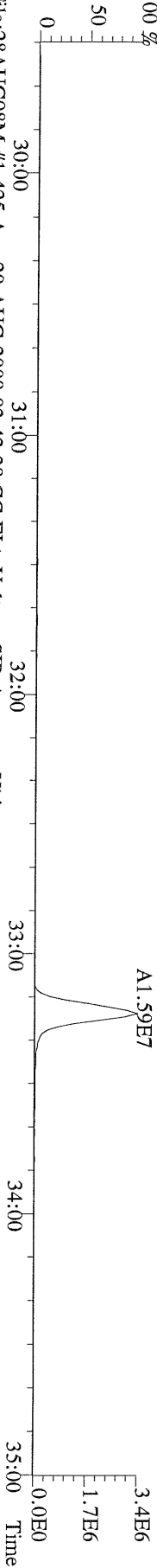
File:28AUG08M #1-425 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



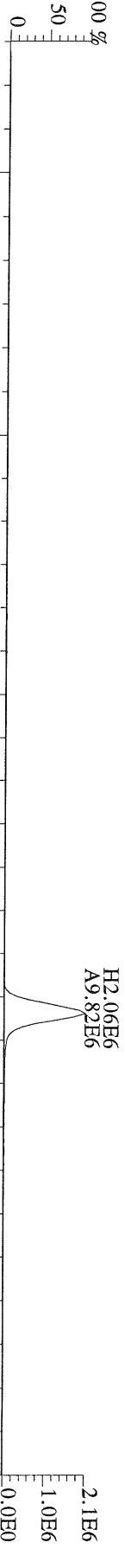
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357.8517 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



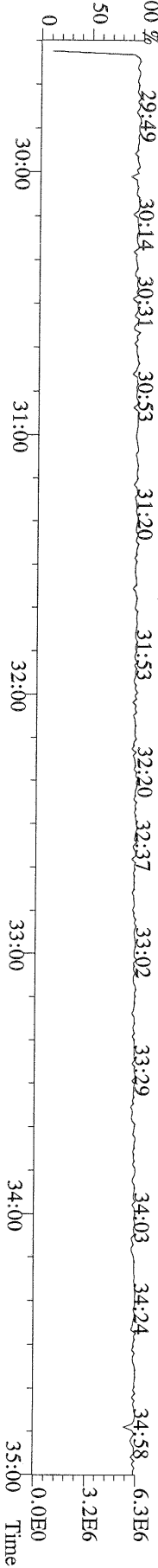
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367.8949 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



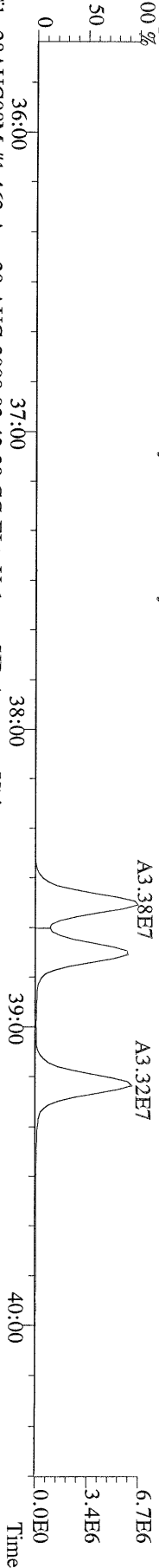
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369.8919 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



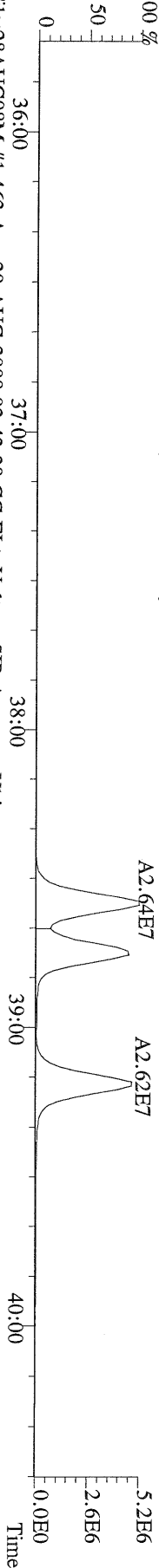
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366.9792 S:15 F:2 Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



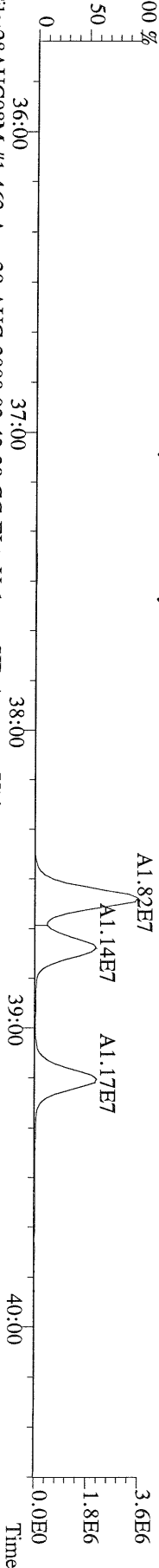
File:28AUG08M #1-463 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



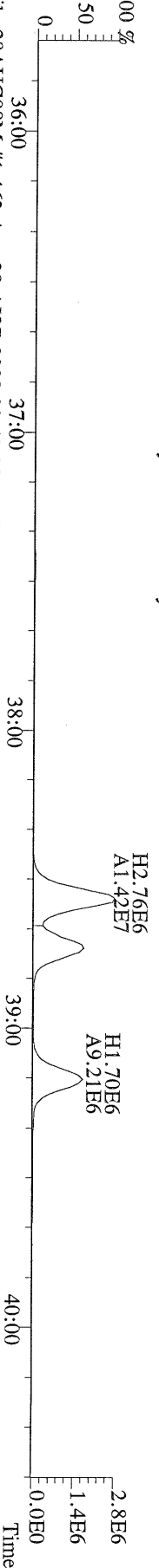
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391.8127 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



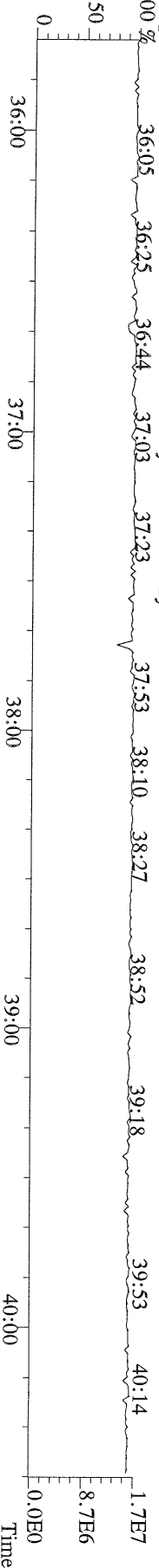
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401.8559 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



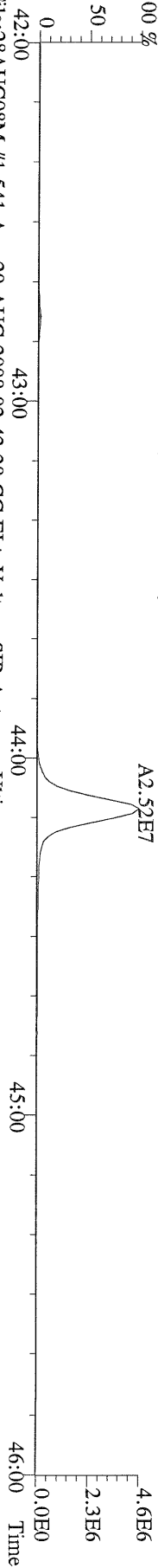
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403.8530 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



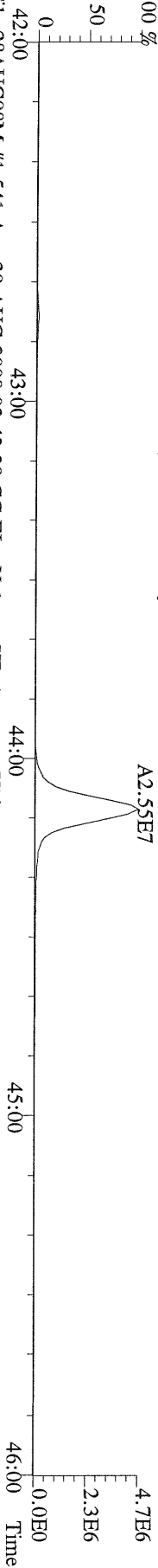
File:28AUG08M #1-463 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:15 F:3 Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



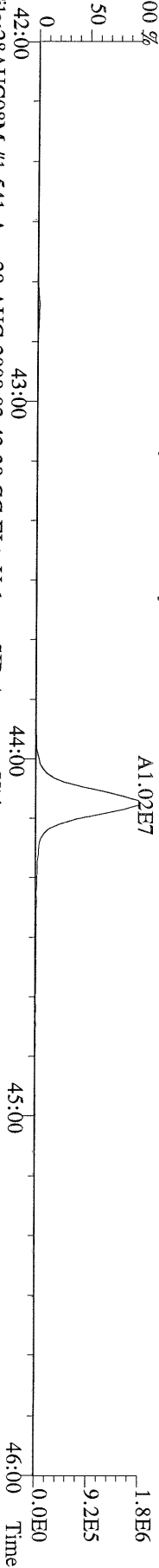
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423.7767 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



File:28AUG08M #1-541 Acq:29-AUG-2008 02:43:28 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:15 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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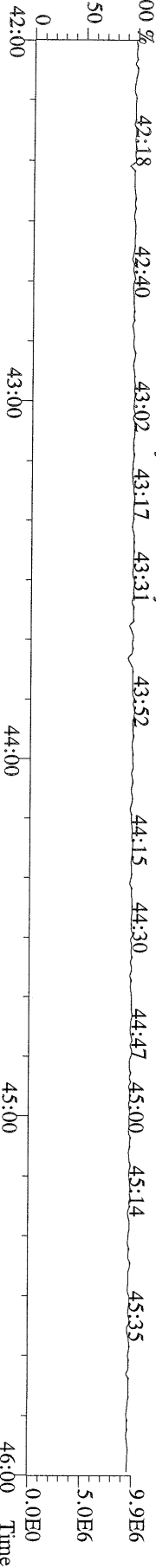
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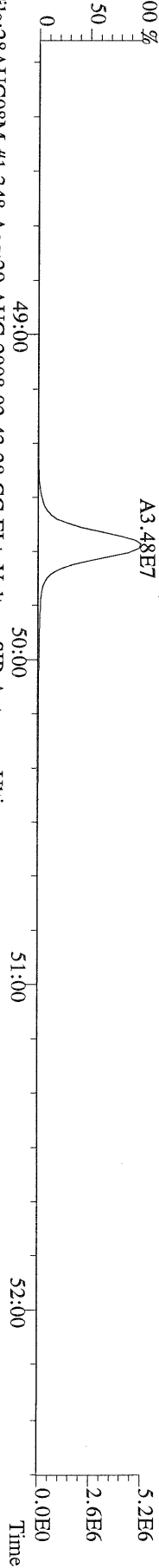
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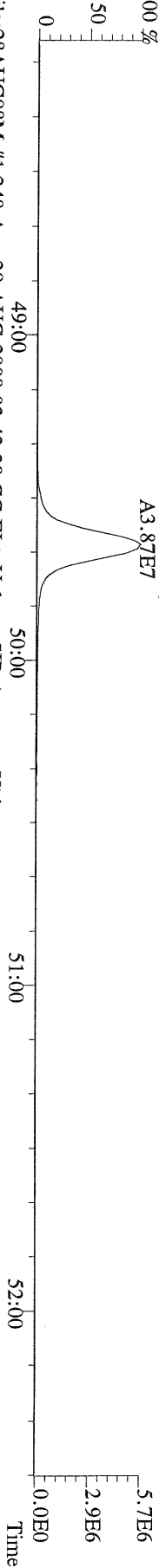
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



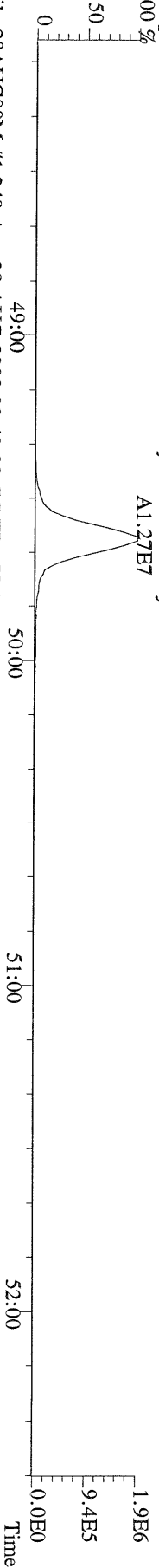
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



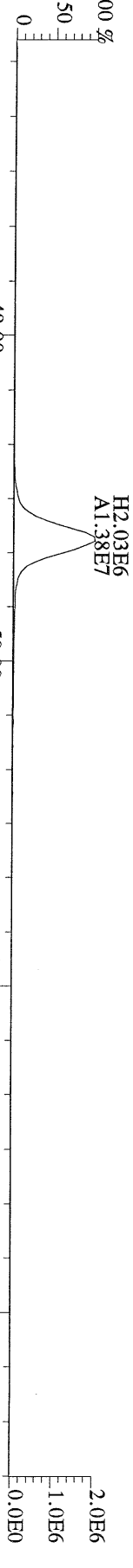
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459.7348 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



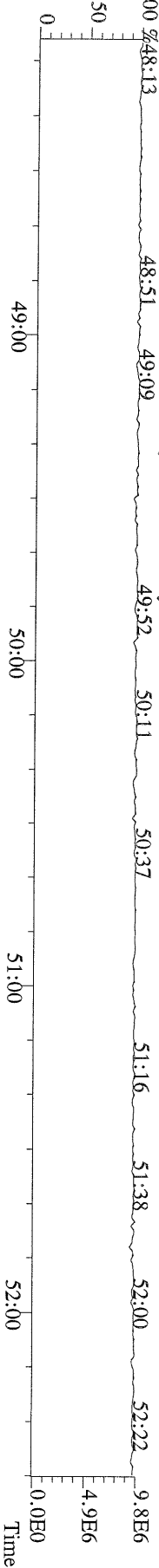
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



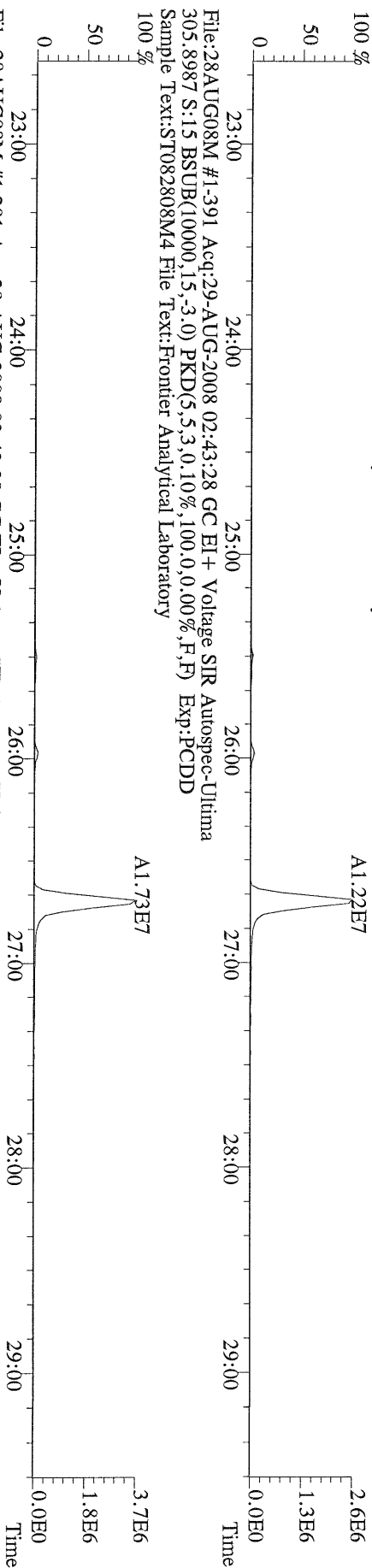
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



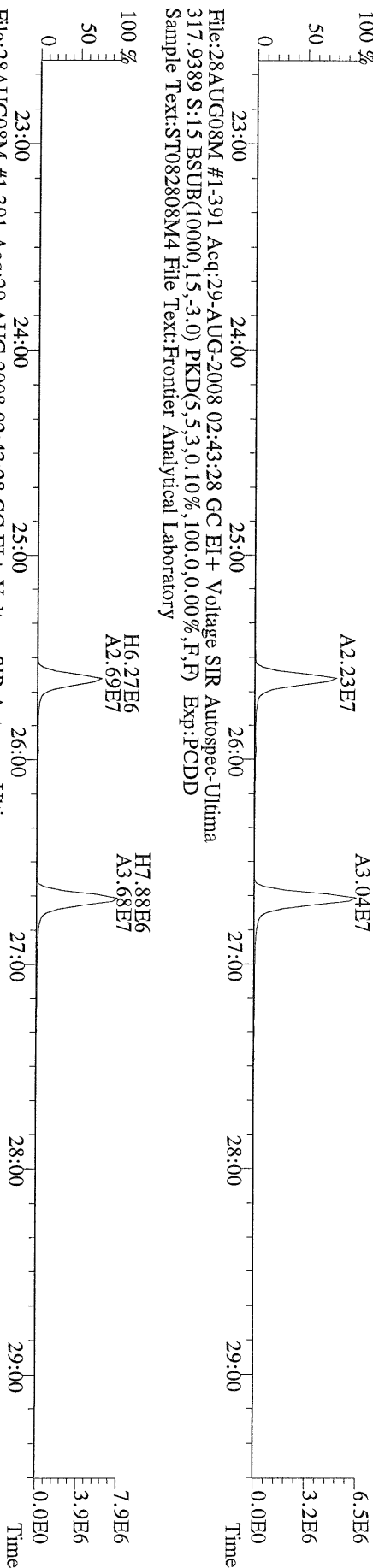
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory
100 %



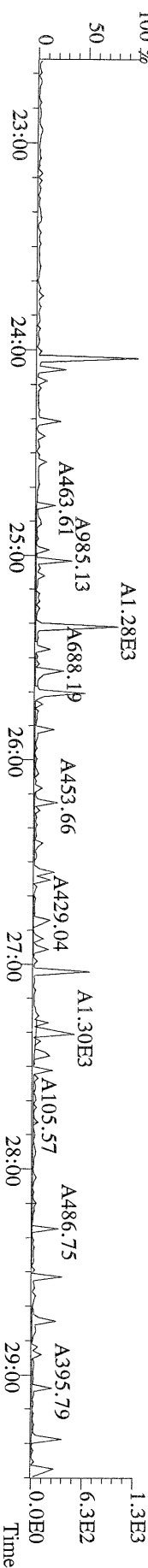
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



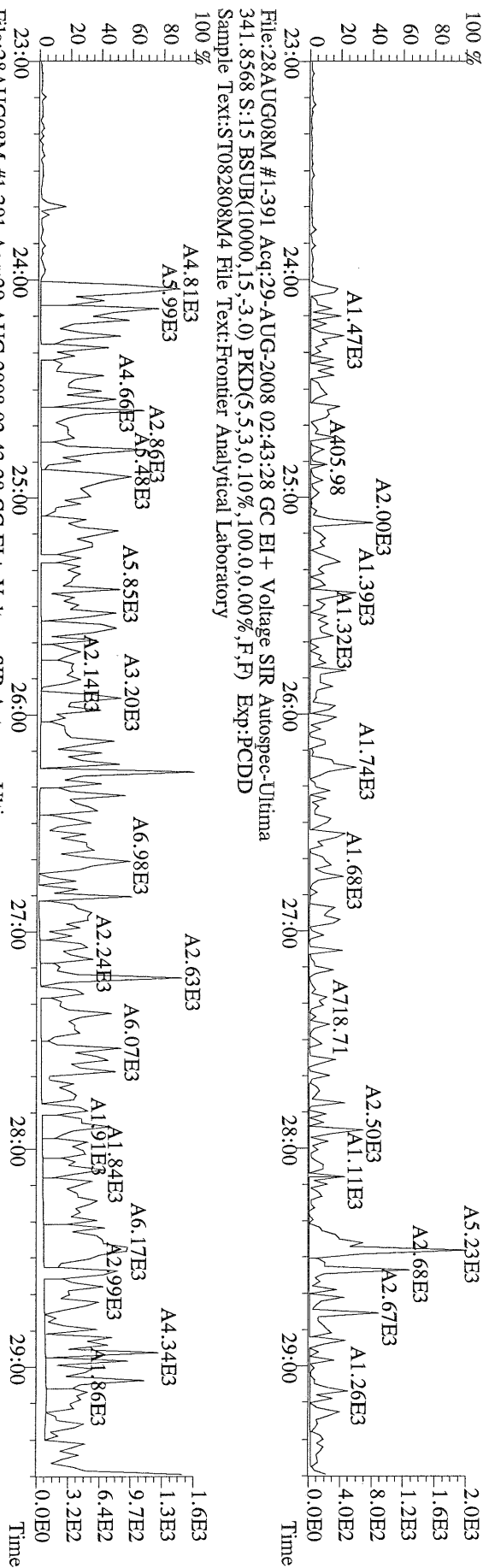
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315.9419 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



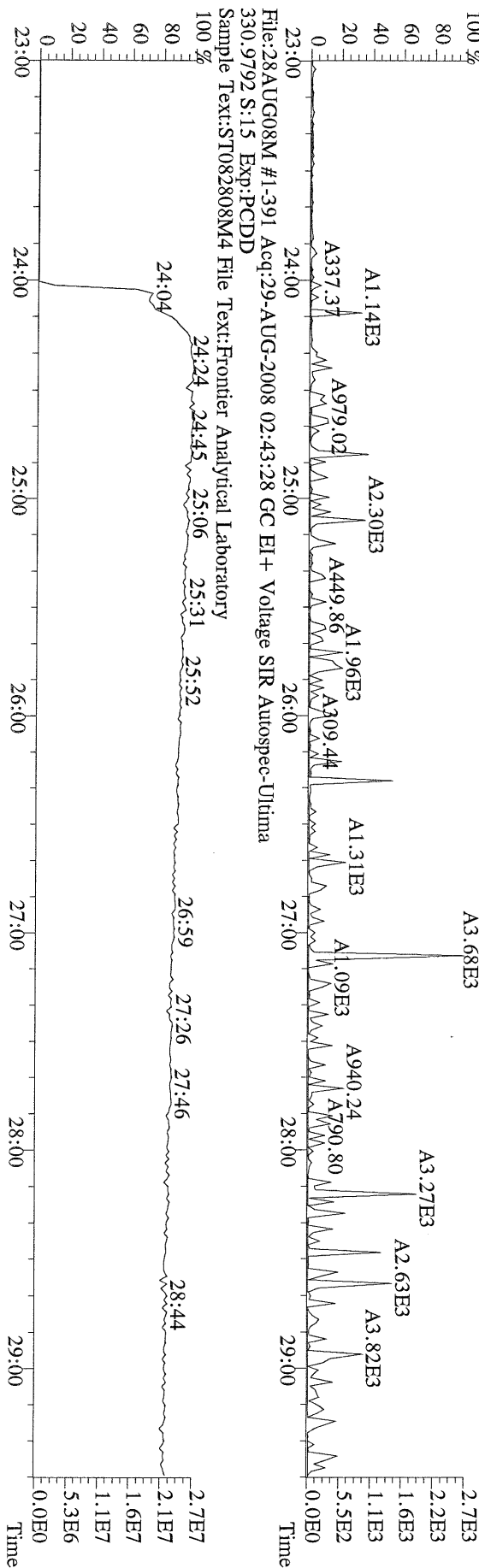
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375.8364 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



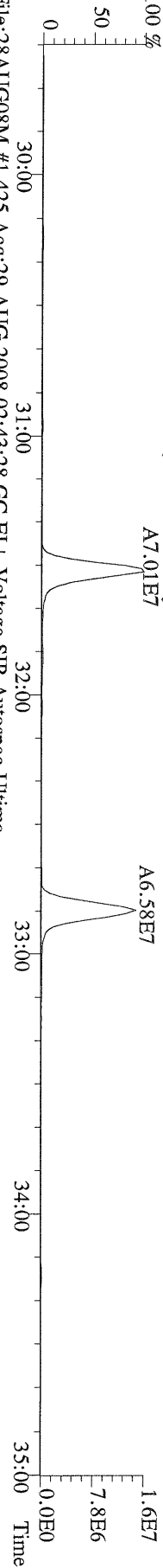
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339.8597 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



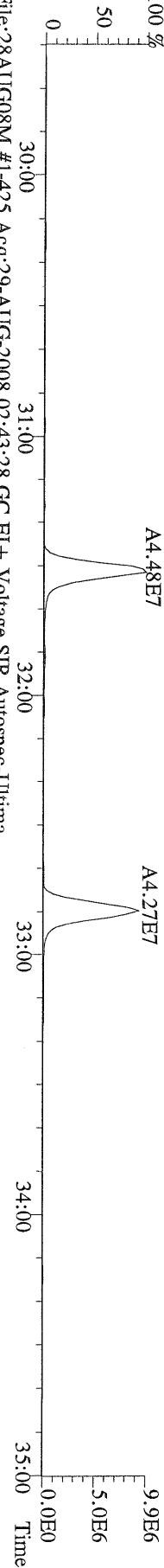
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409.7974 S:15 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



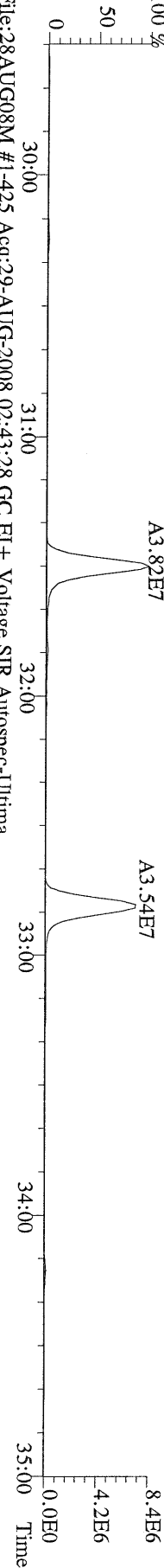
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



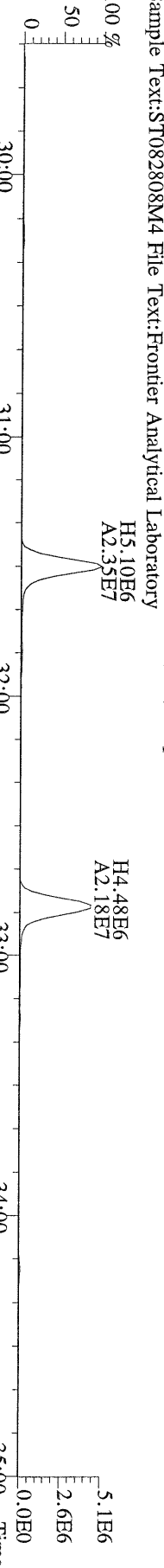
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Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



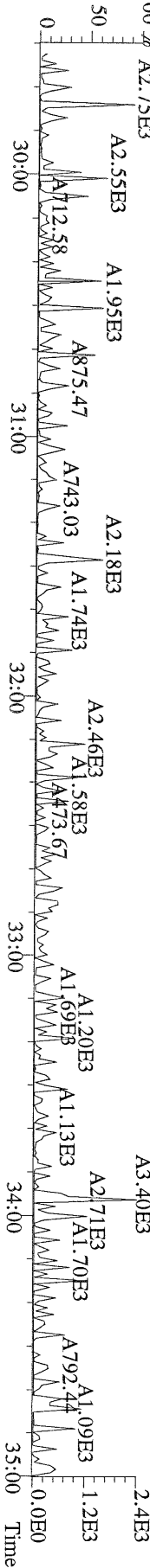
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351.9000 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



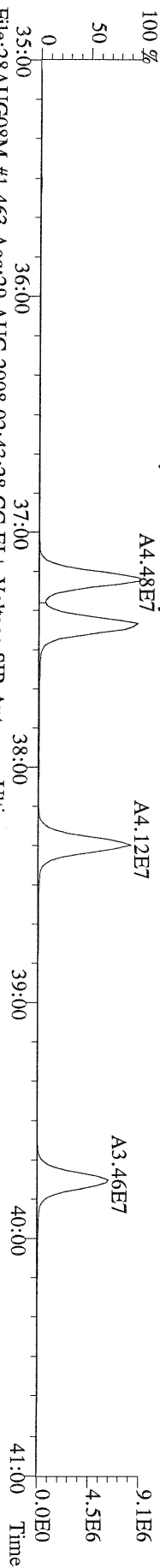
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353.8970 S:15 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
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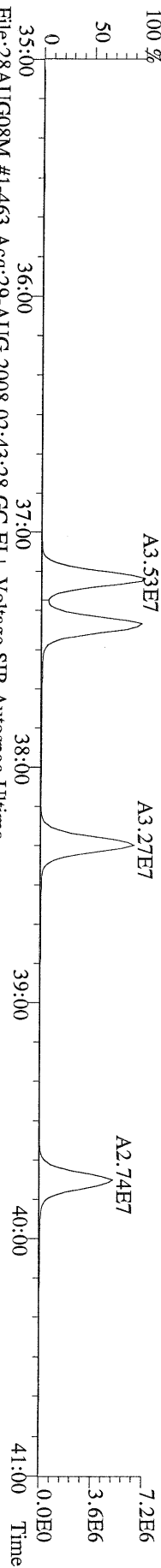
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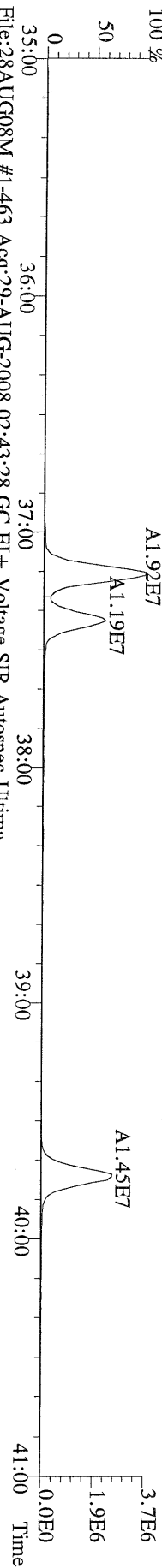
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373.8207 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



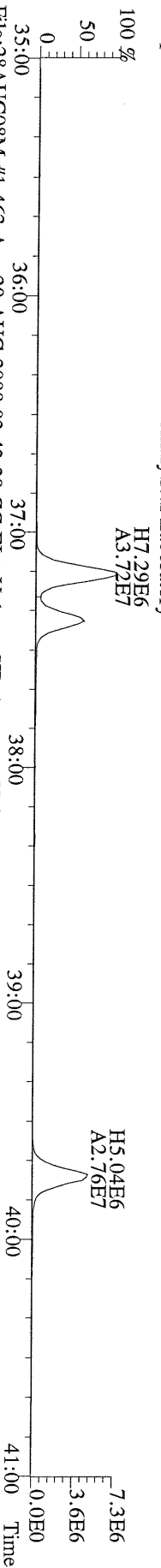
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375.8178 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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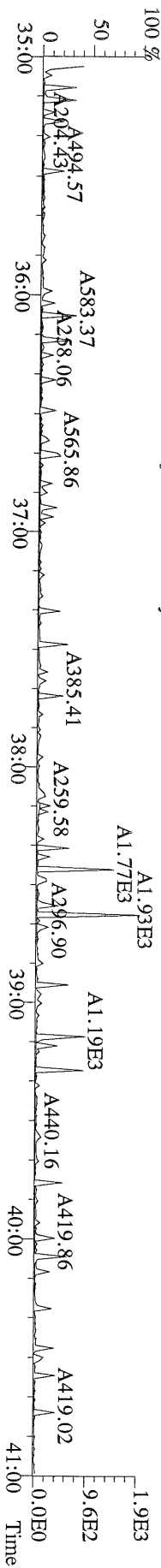
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383.8639 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M4 File Text:Frontier Analytical Laboratory



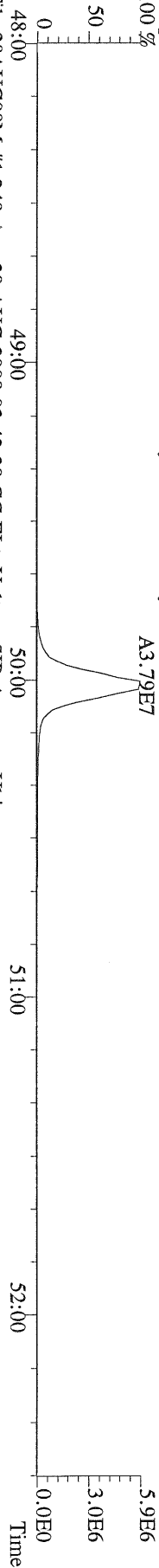
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385.8610 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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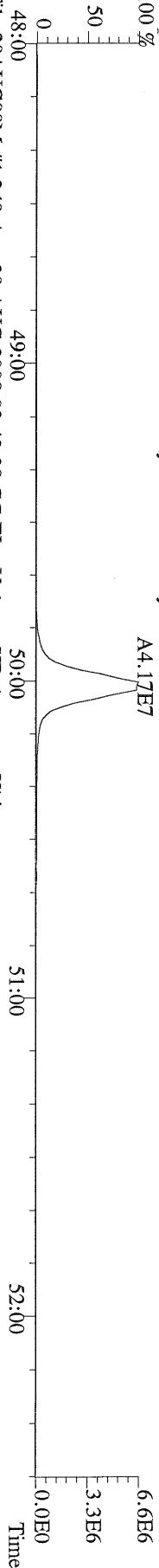
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445.7555 S:15 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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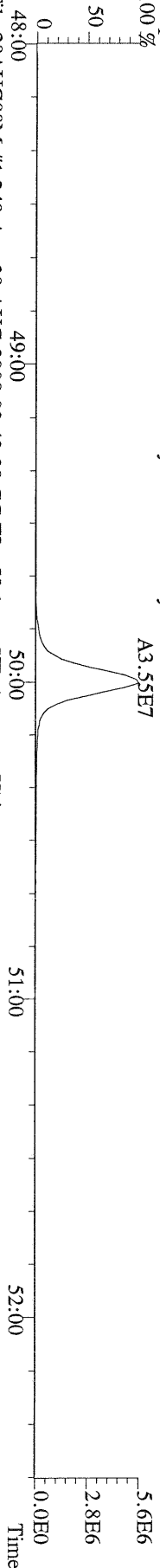
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441.7428 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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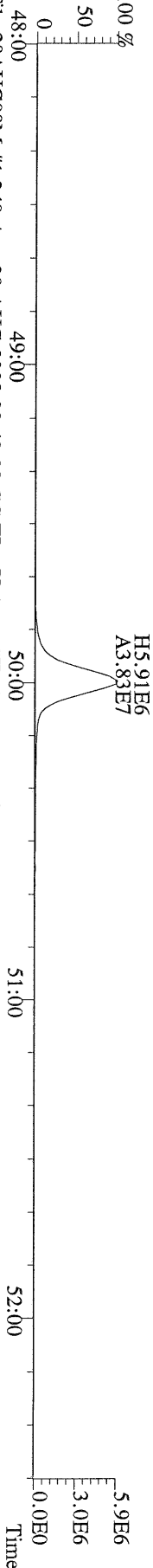
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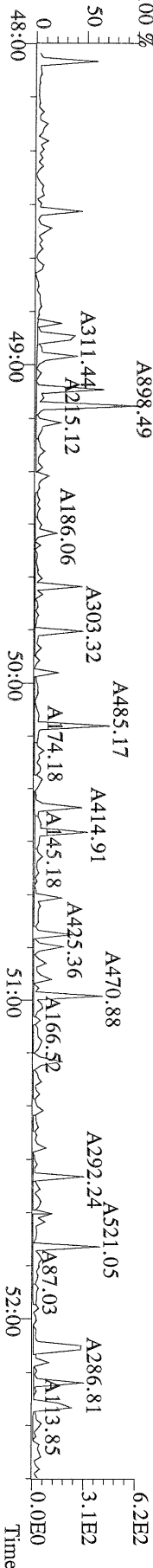
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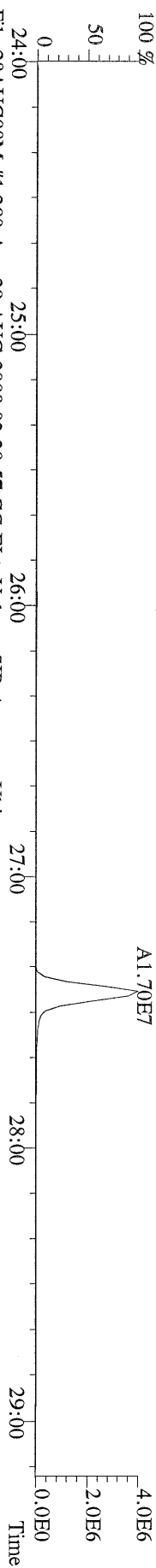
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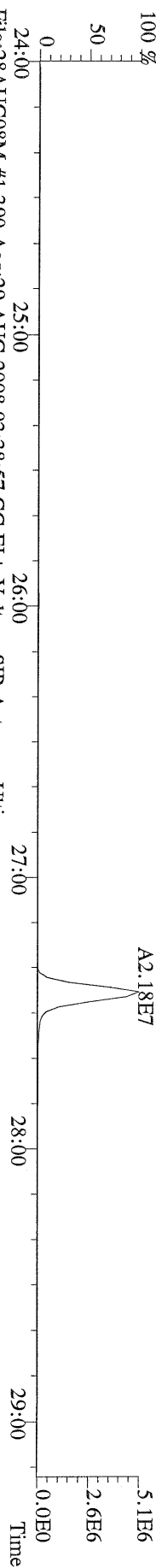
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513.6775 S:15 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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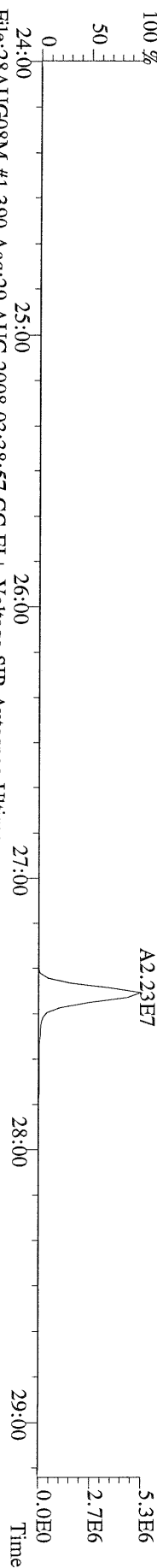
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319.8965 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



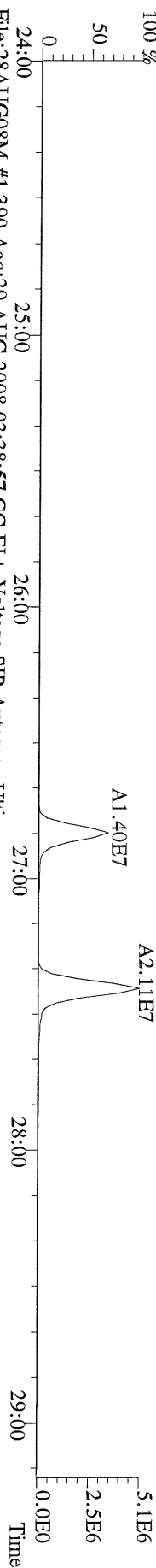
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



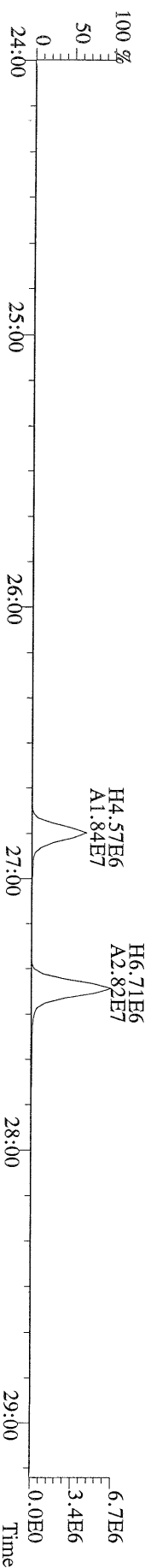
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327.8847 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



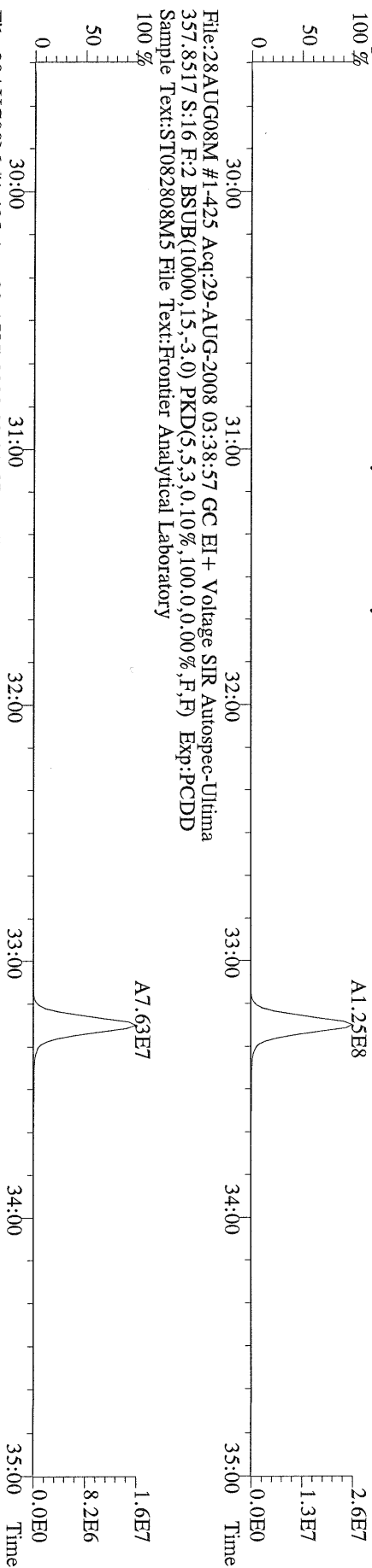
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331.9368 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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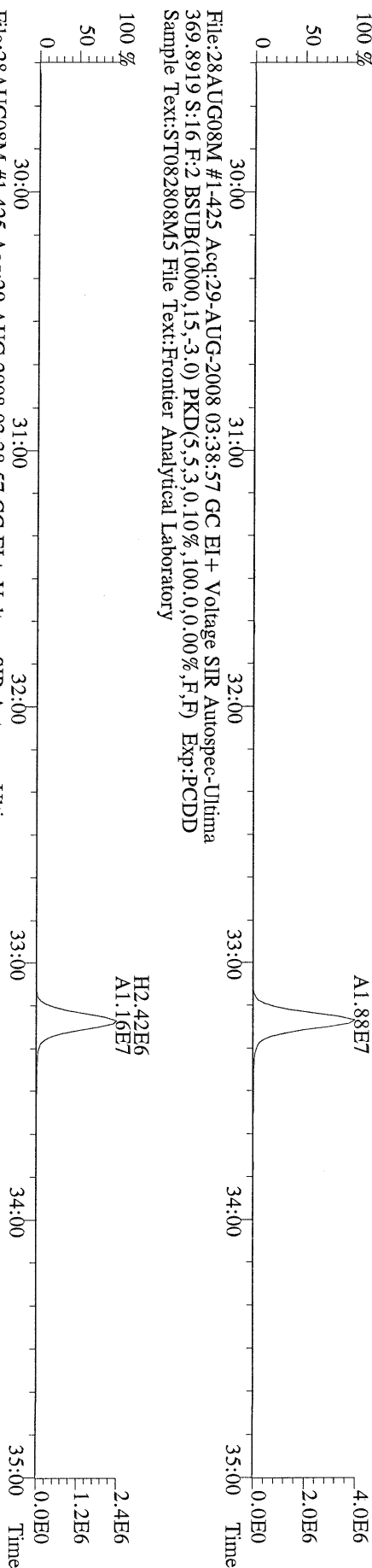
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333.9339 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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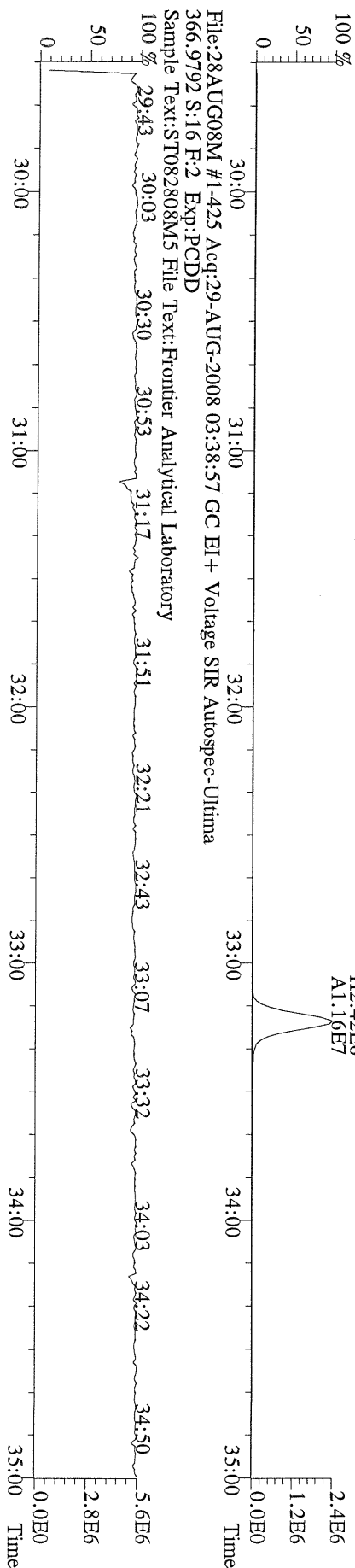
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355.8546 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %



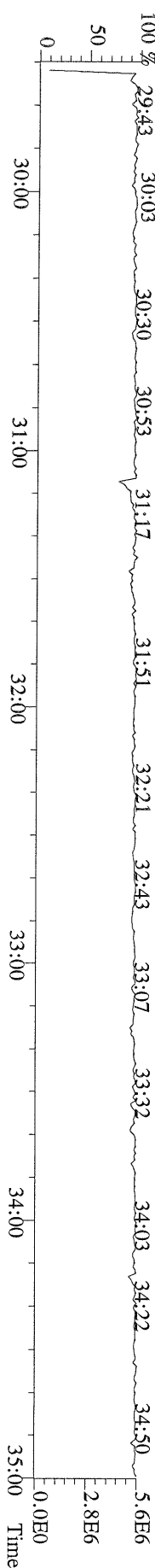
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367.8949 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory
100 %



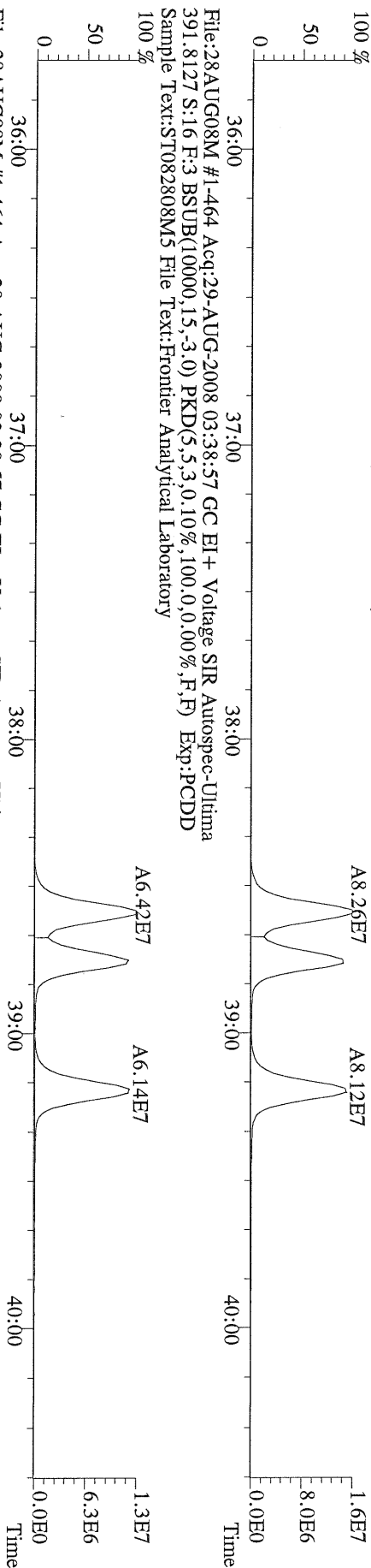
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369.8919 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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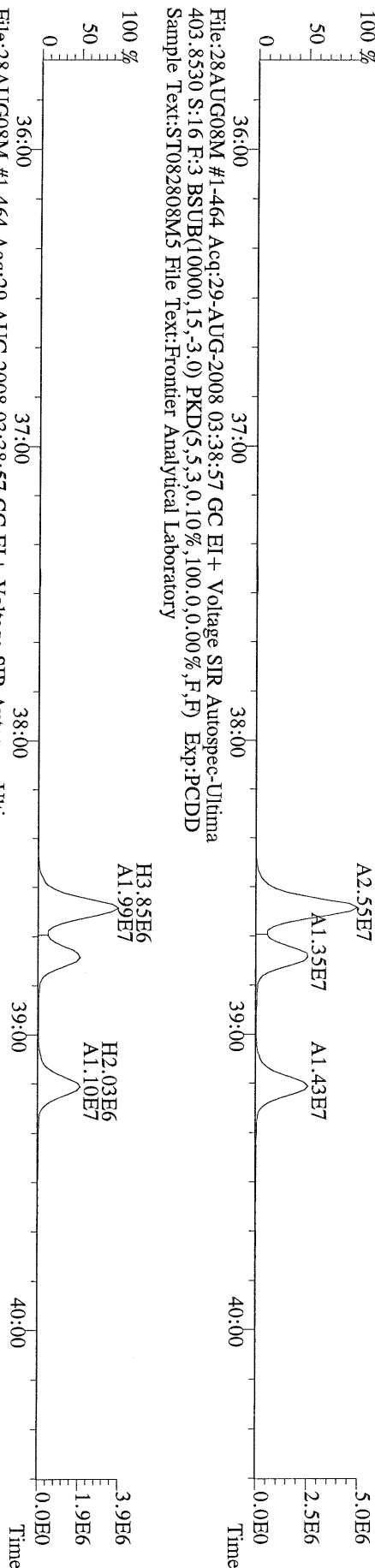
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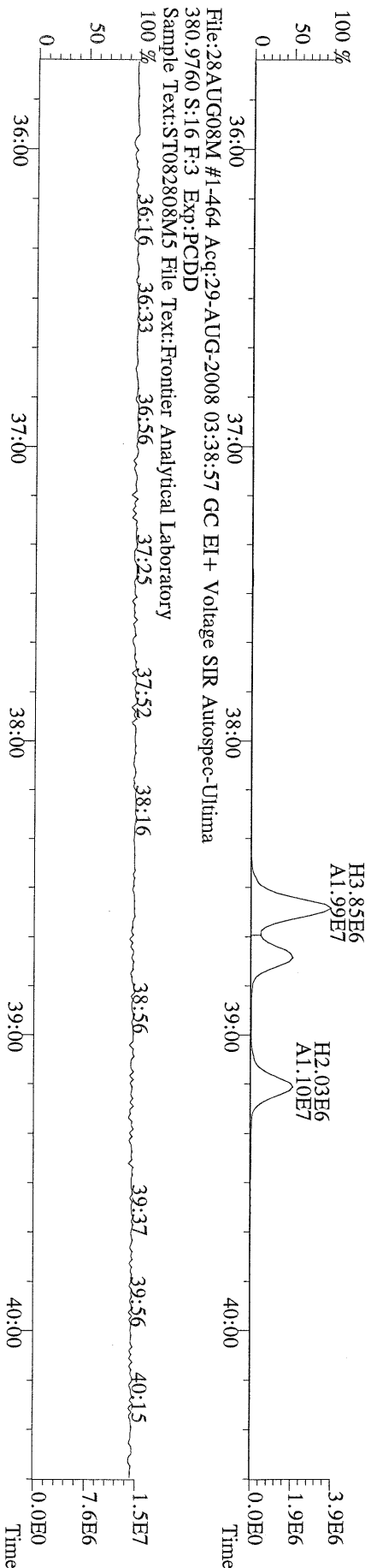
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389.8156 S:16 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



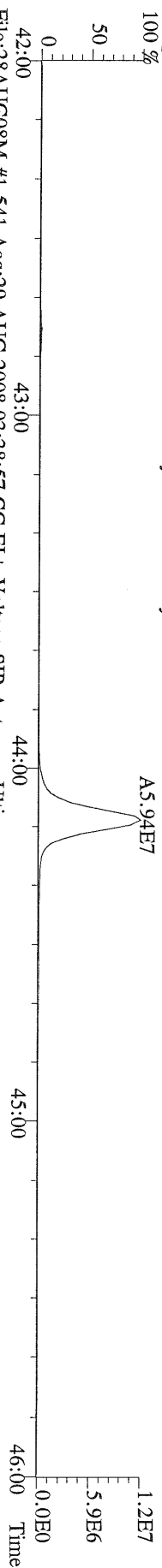
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



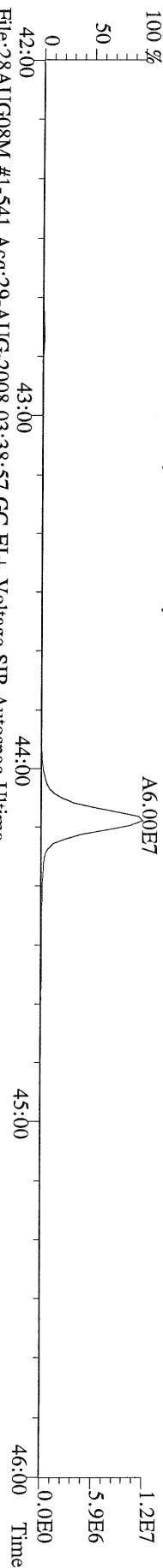
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403.8530 S:16 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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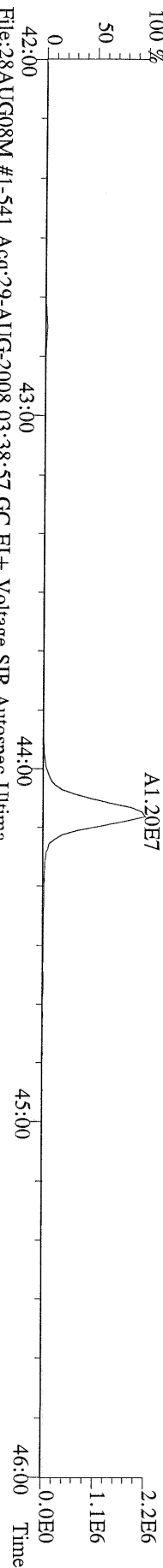
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423.7767 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



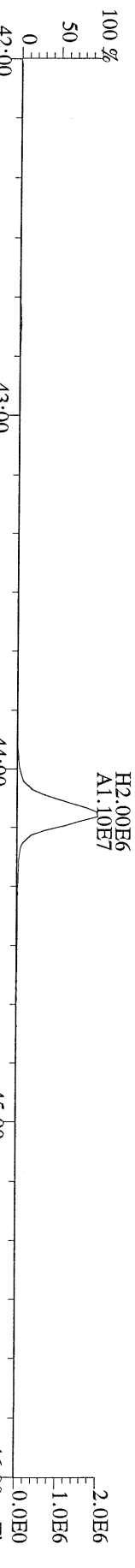
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425.7737 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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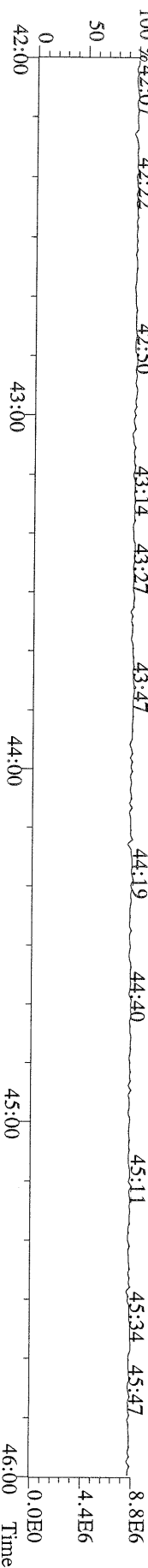
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435.8169 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



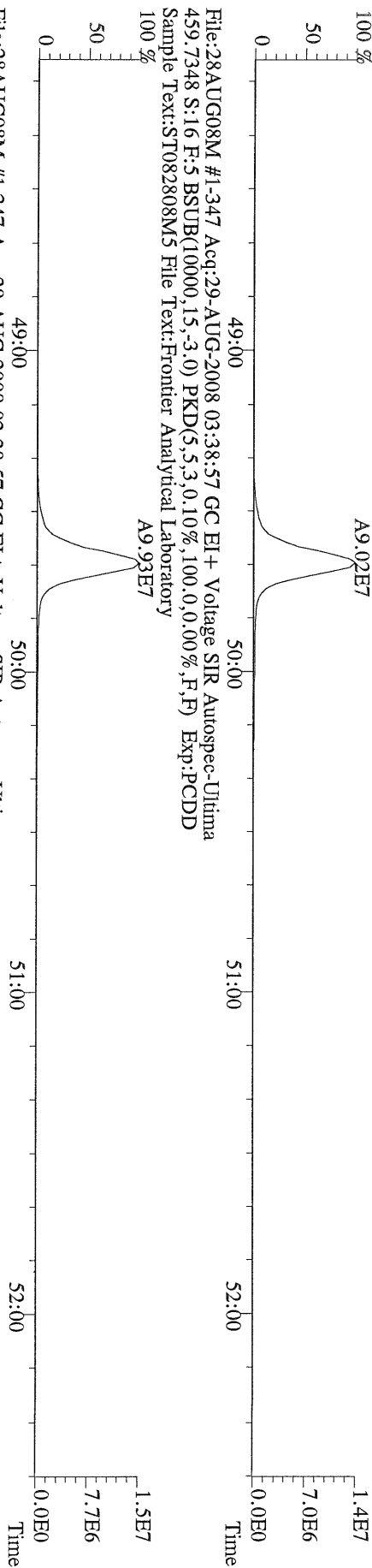
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437.8140 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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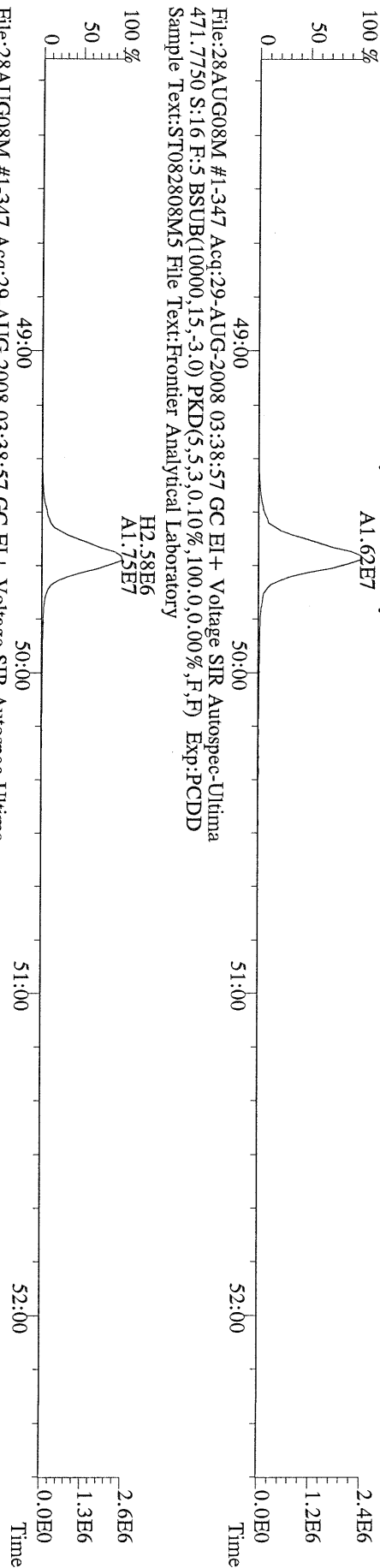
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430.9728 S:16 F:4 Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



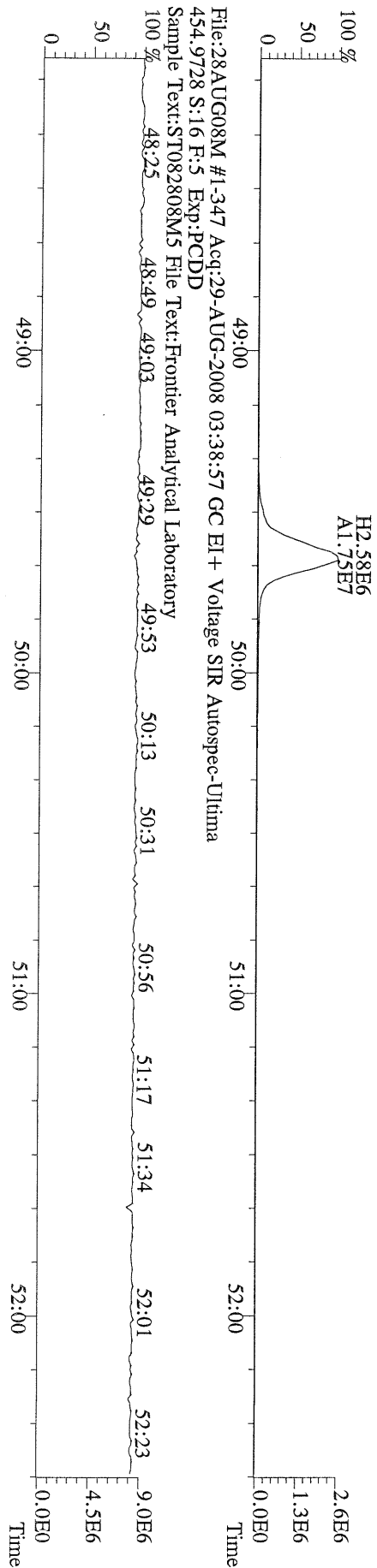
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457.7377 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
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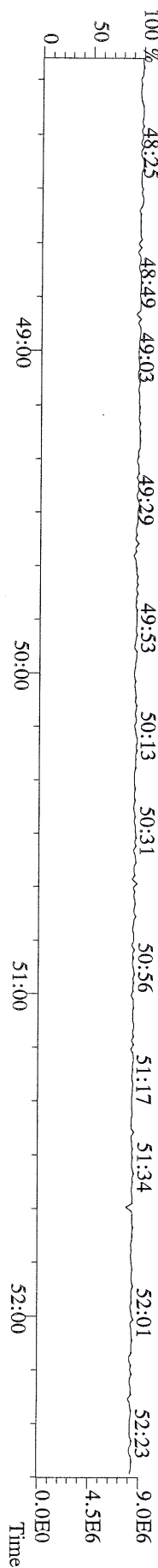
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



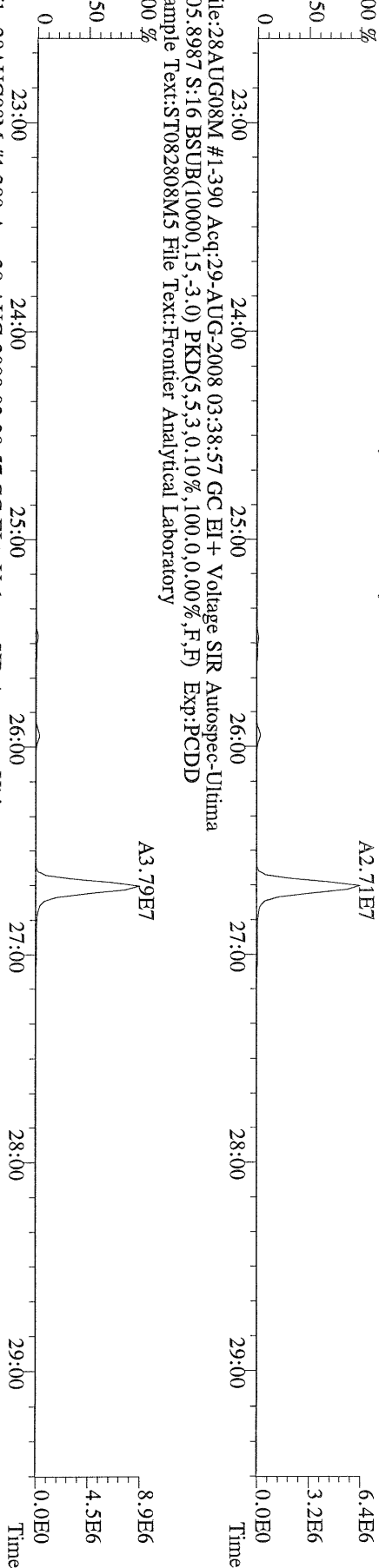
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



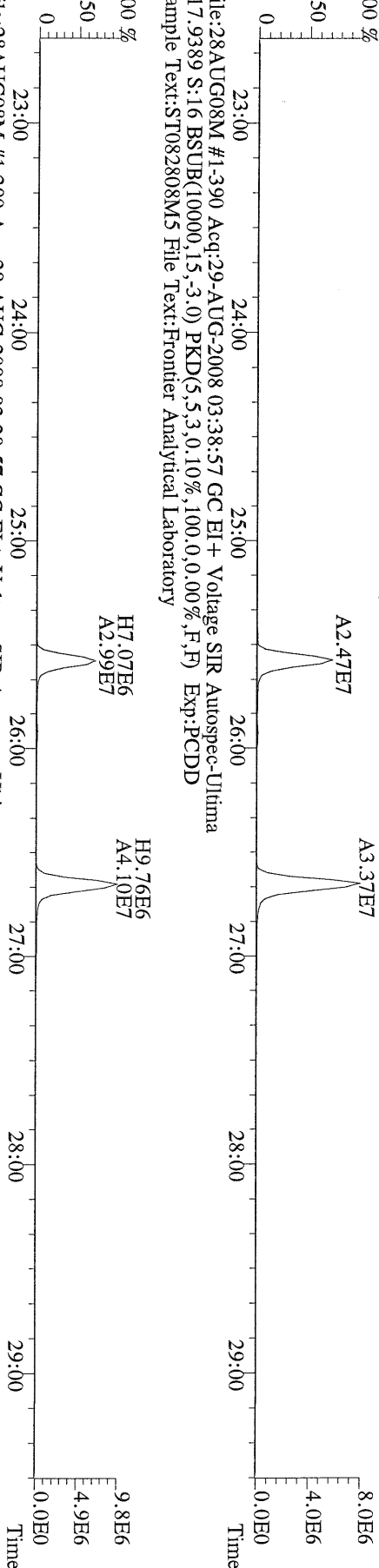
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



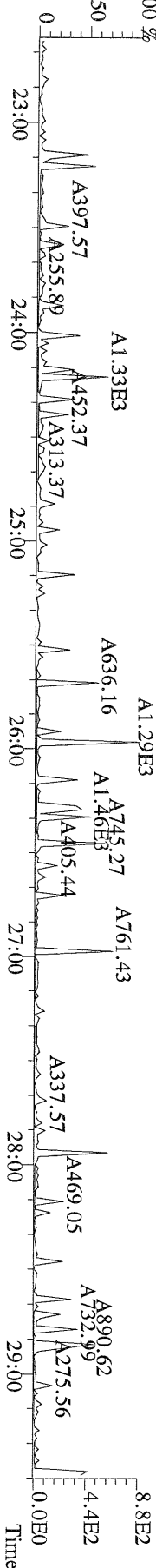
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



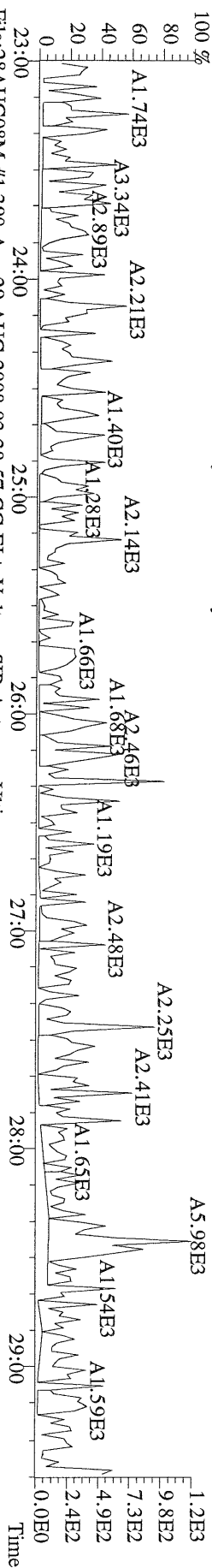
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315.9419 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



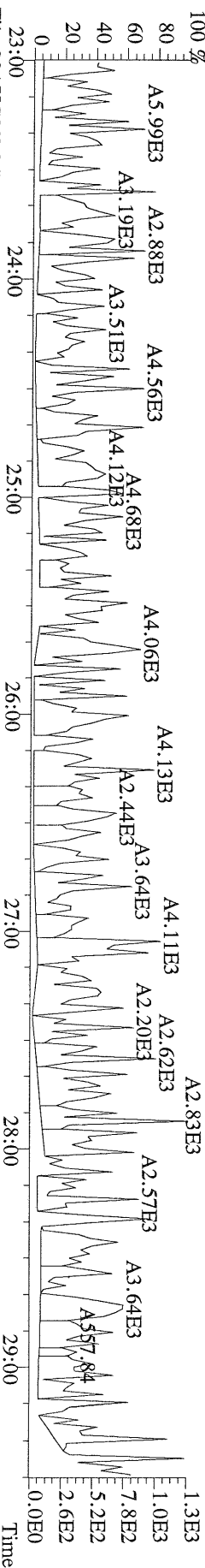
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375.8364 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



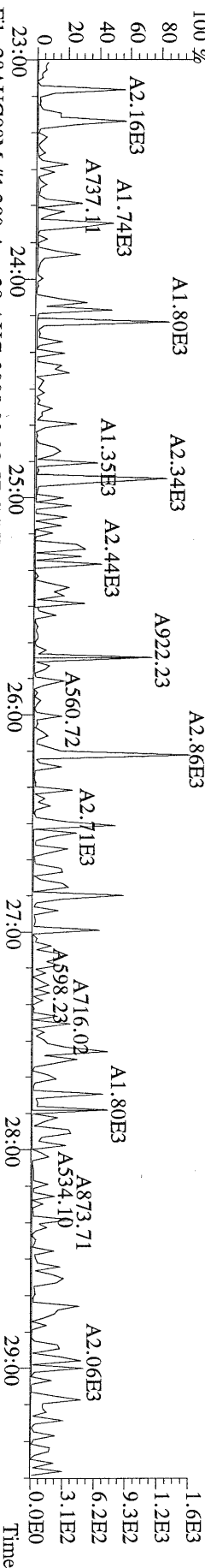
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339.8597 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



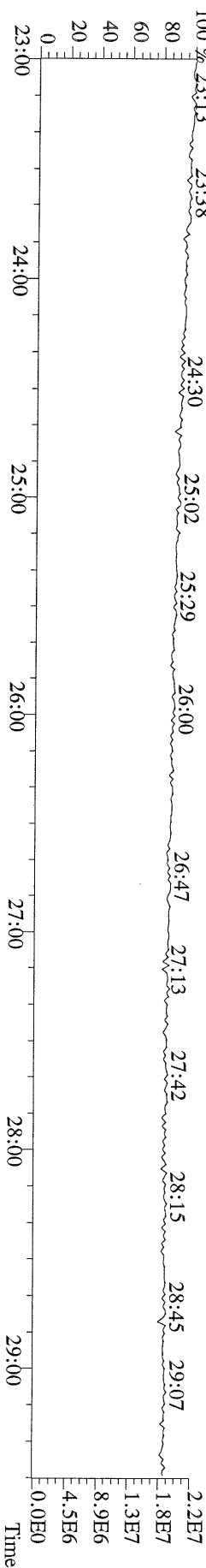
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341.8568 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



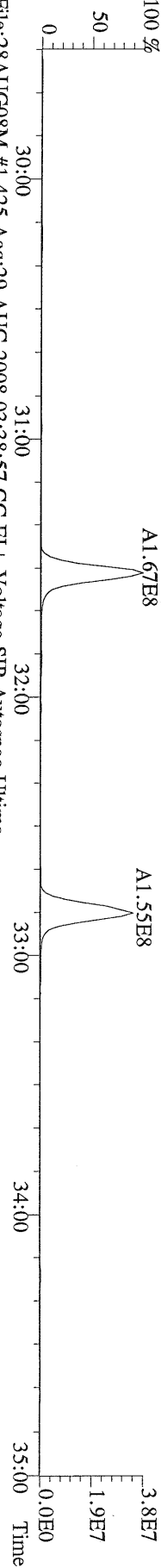
File:28AUG08M #1-390 Acq:29-AUG-2008 03:38:57 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



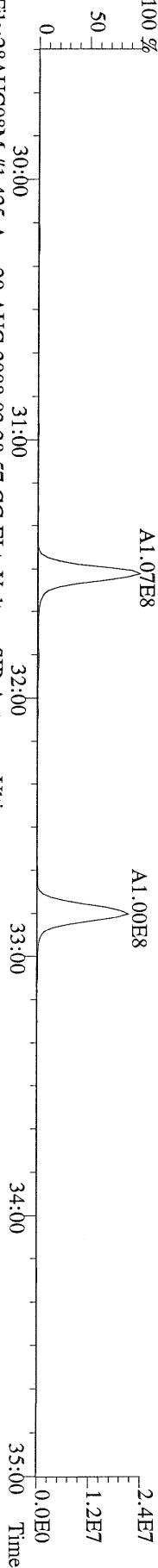
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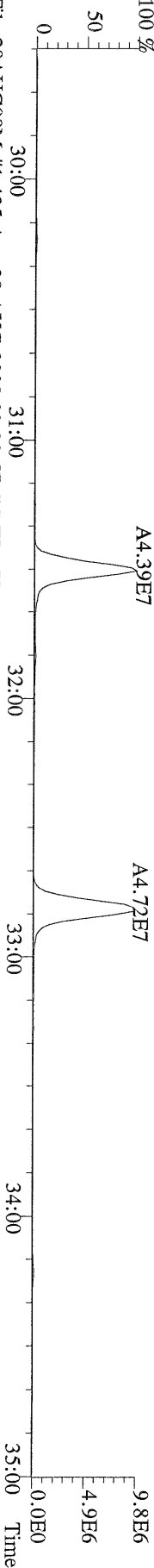
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



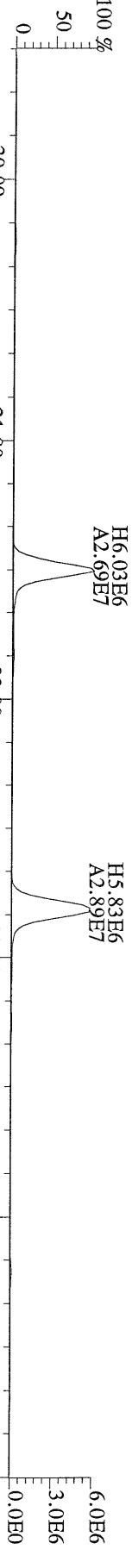
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341.8568 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
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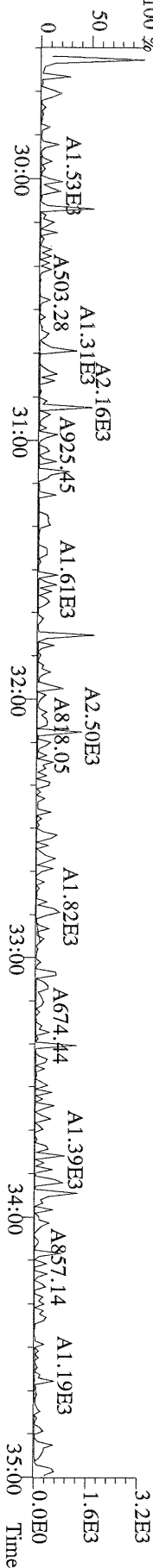
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



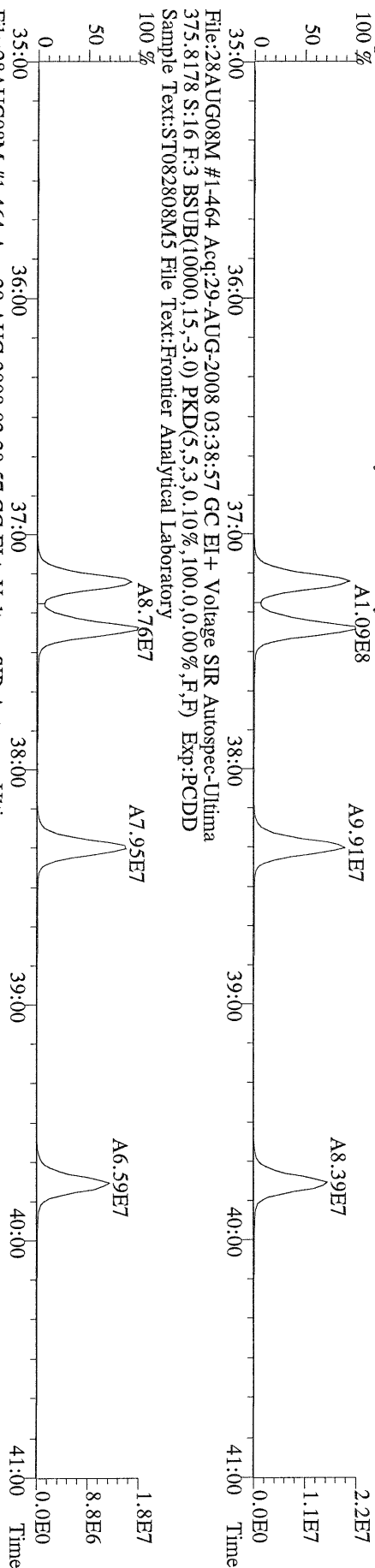
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



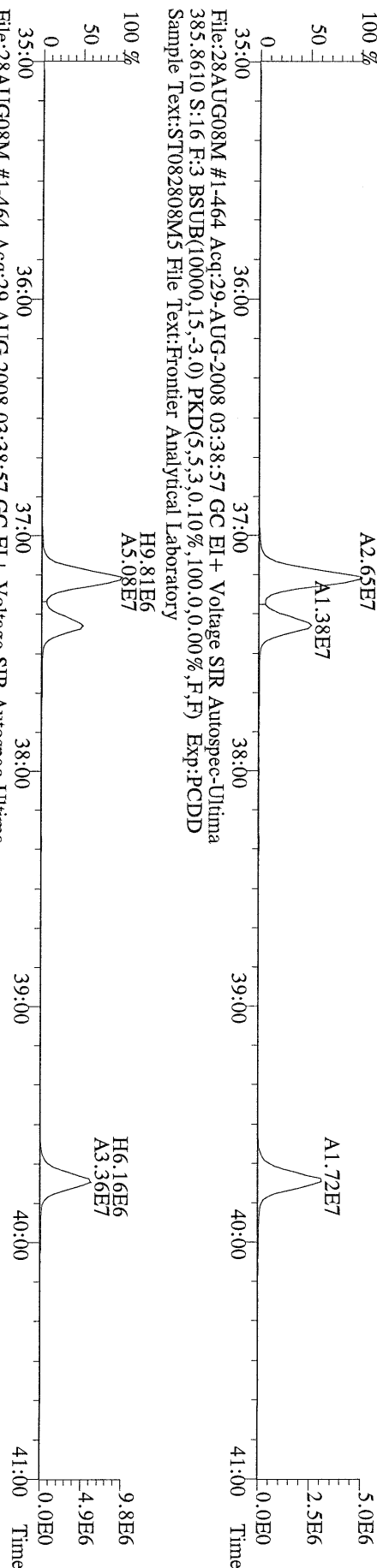
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



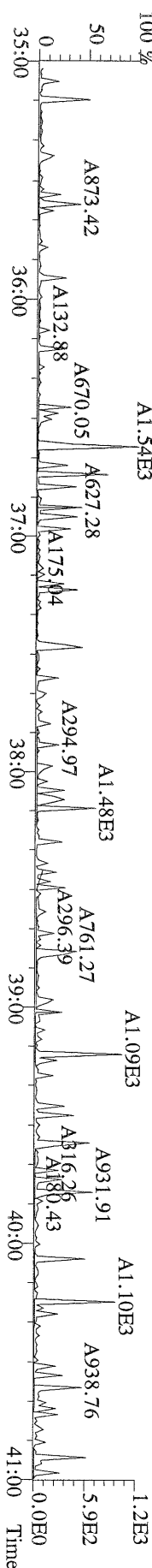
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373.8207 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



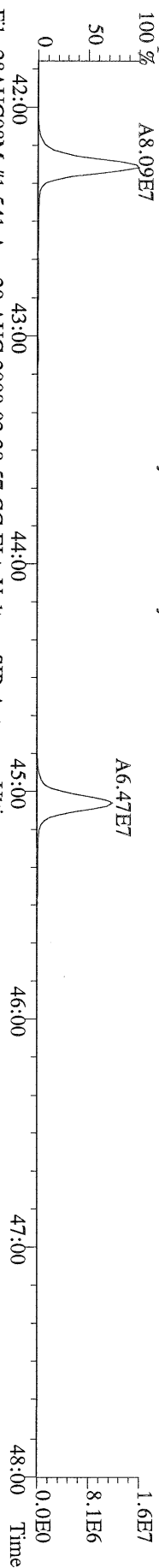
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



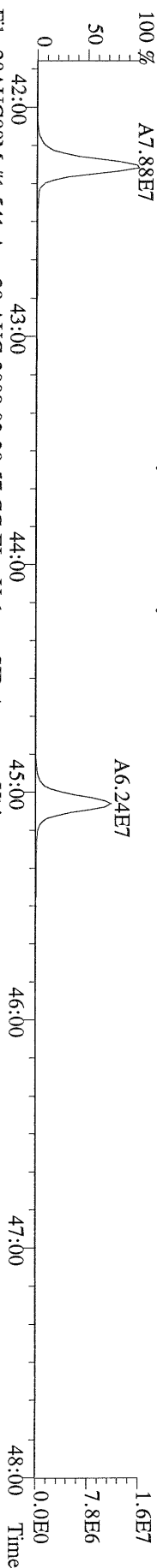
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445.7555 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



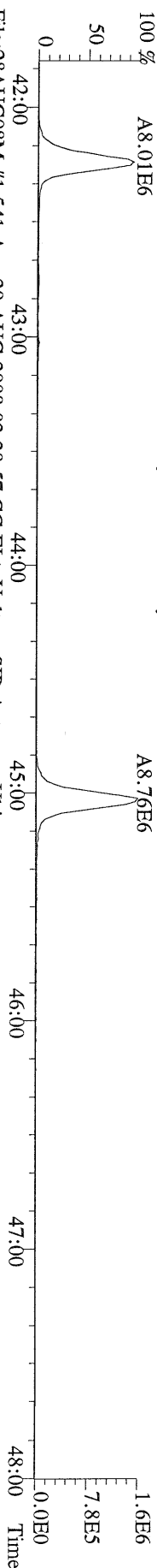
File:28AUG08M #1-541 Acq:29-AUG-2008 03:38:57 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



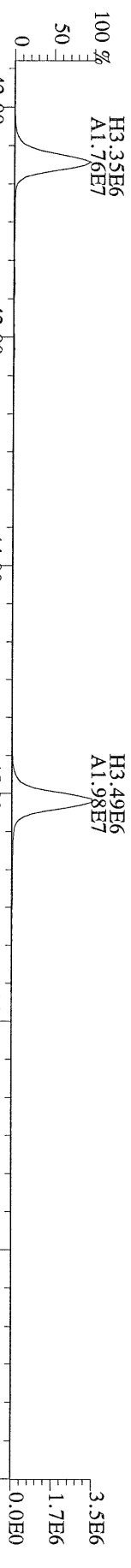
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



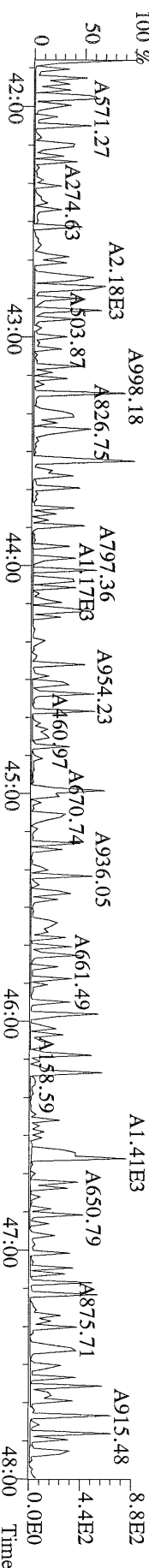
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417.8253 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



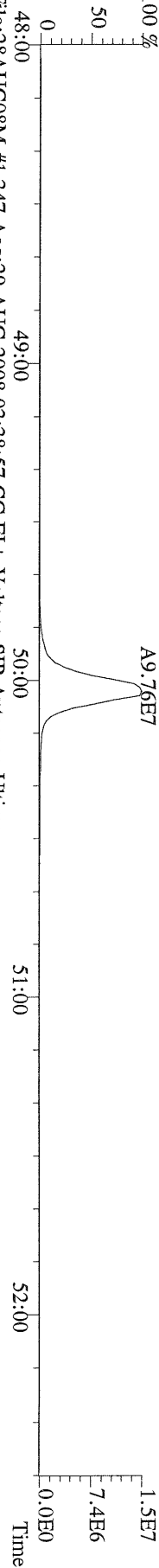
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



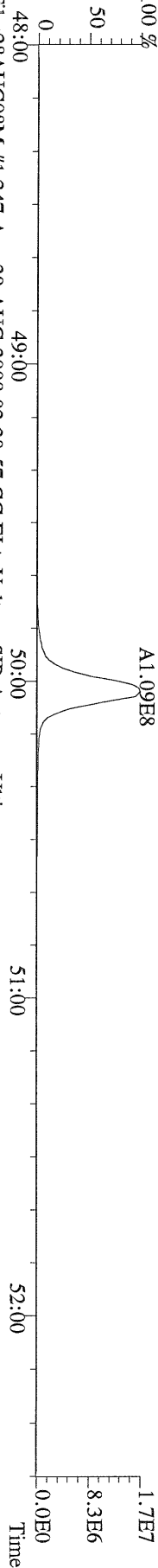
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



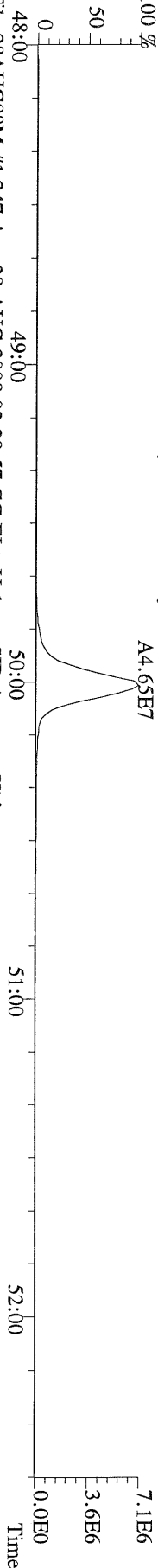
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



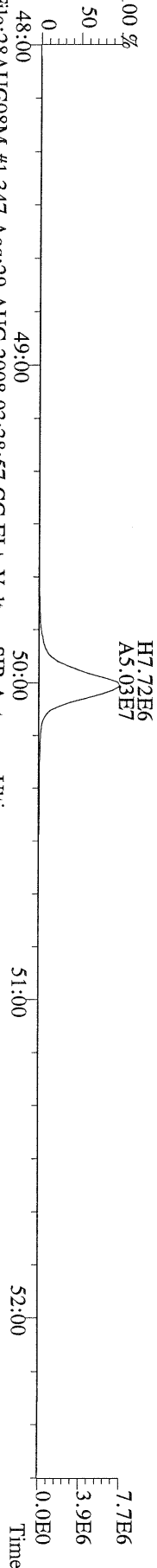
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory



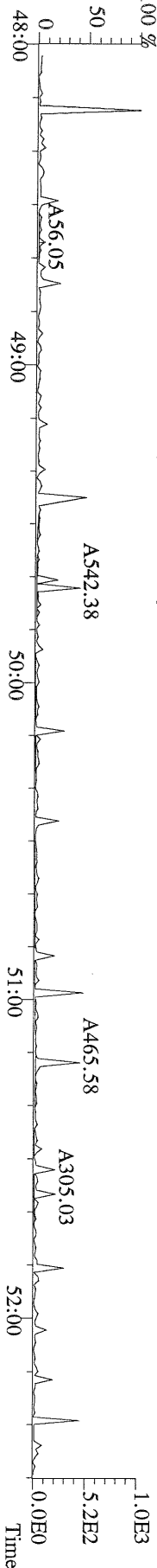
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory

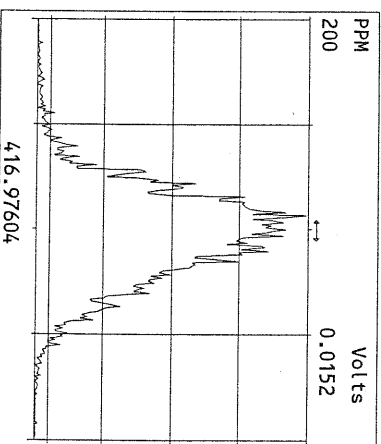
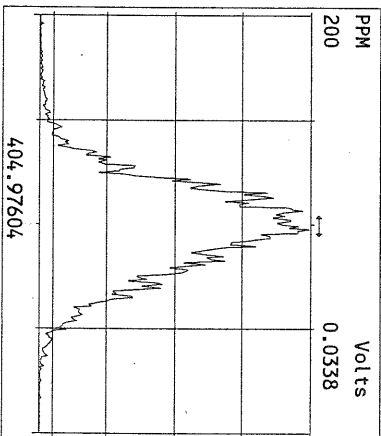
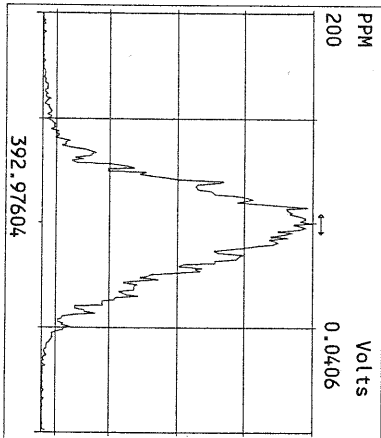
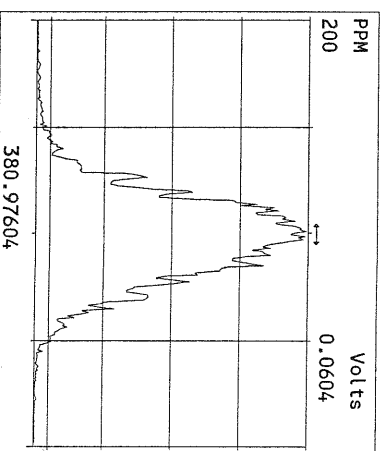
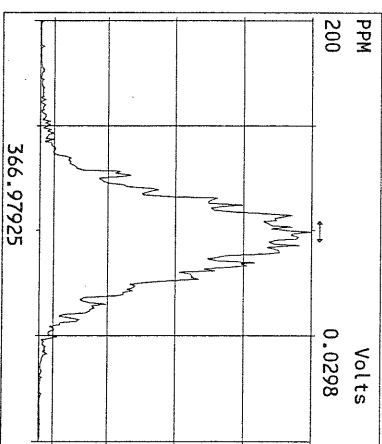
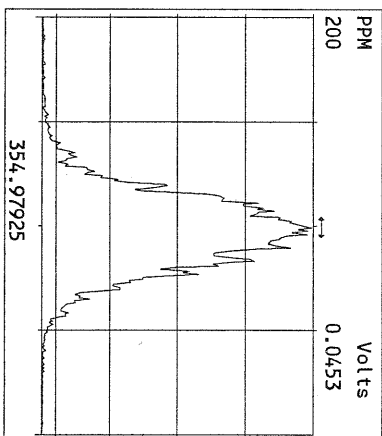
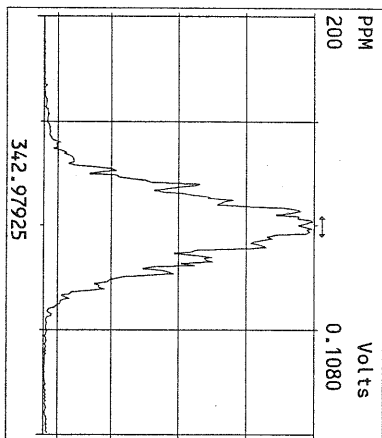
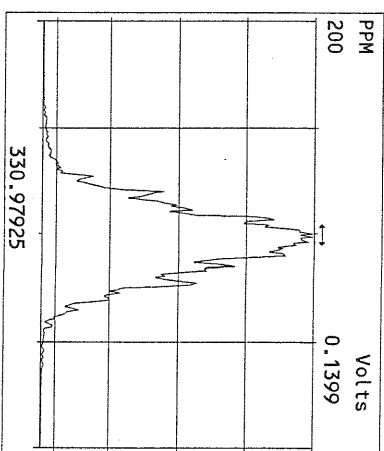
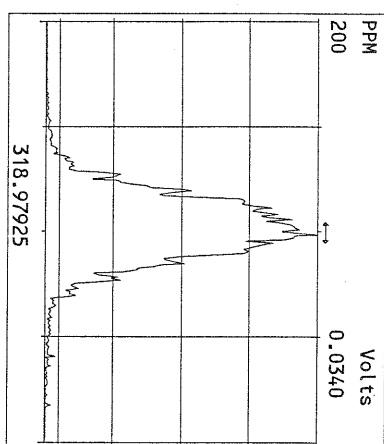
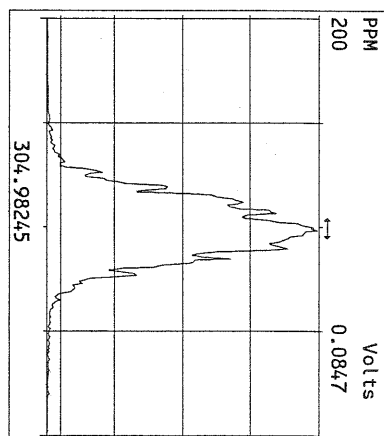
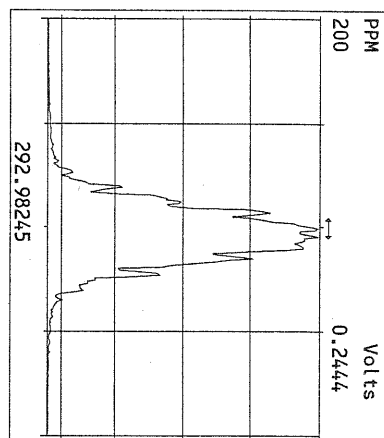


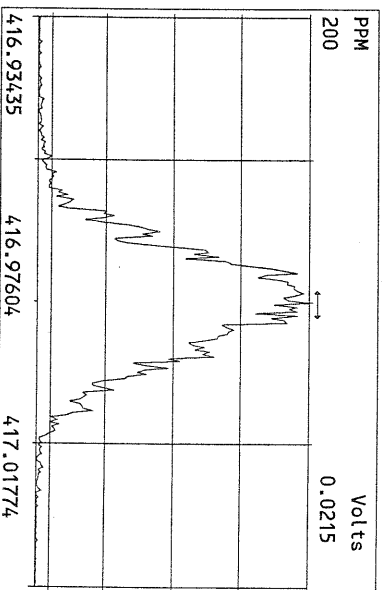
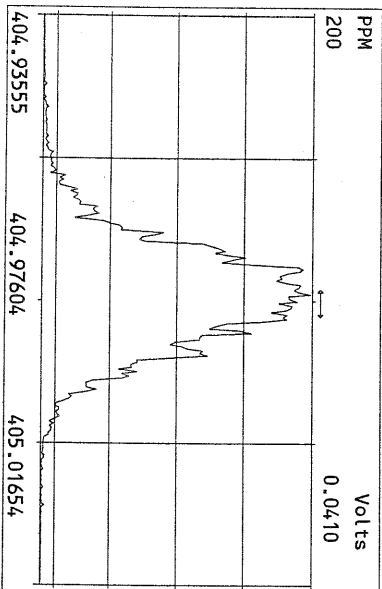
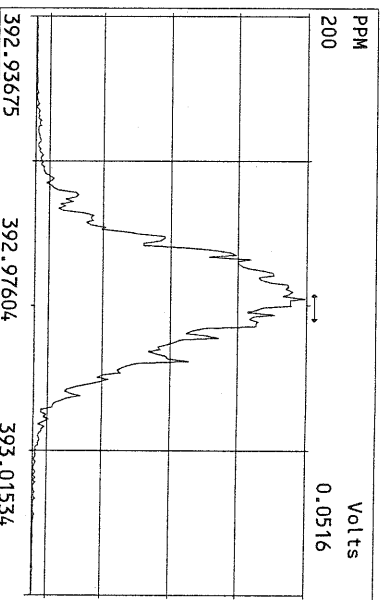
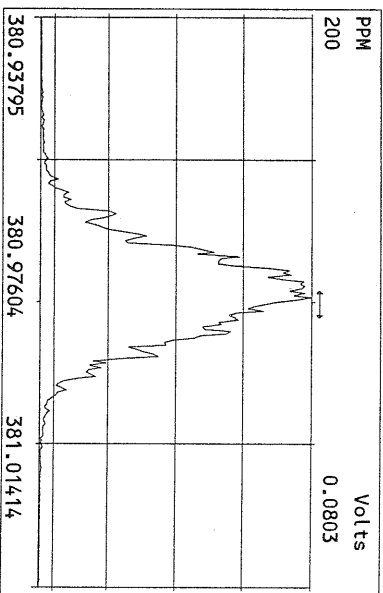
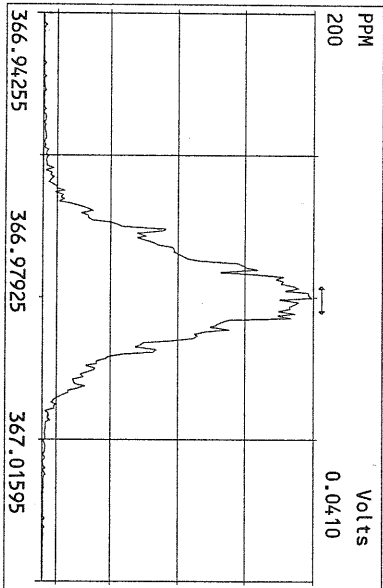
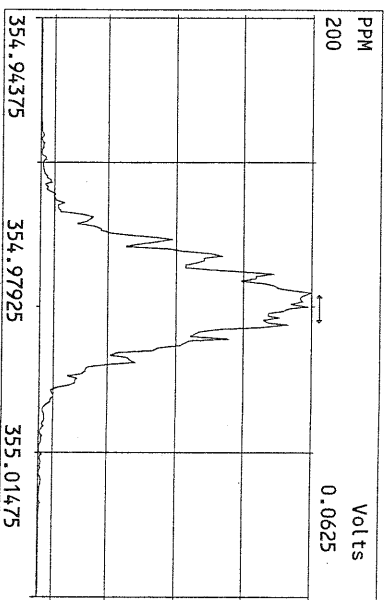
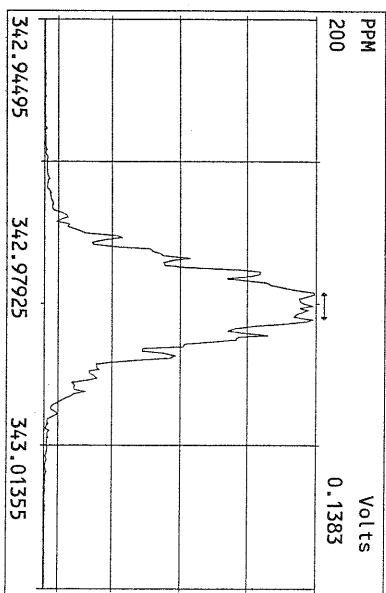
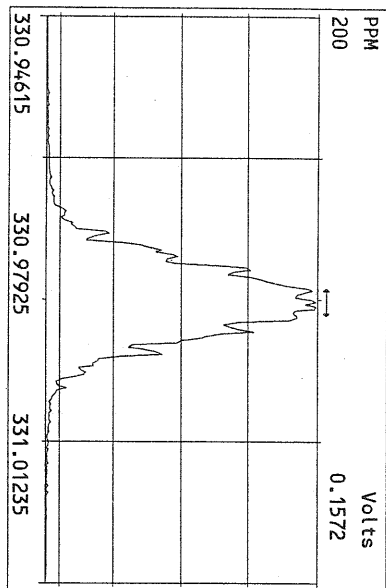
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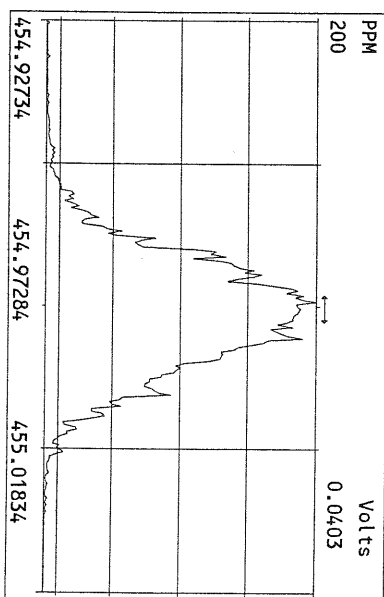
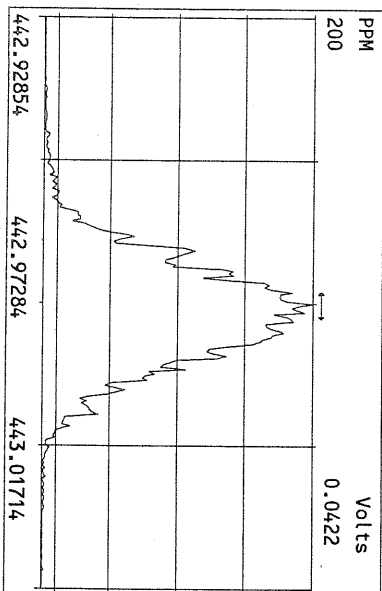
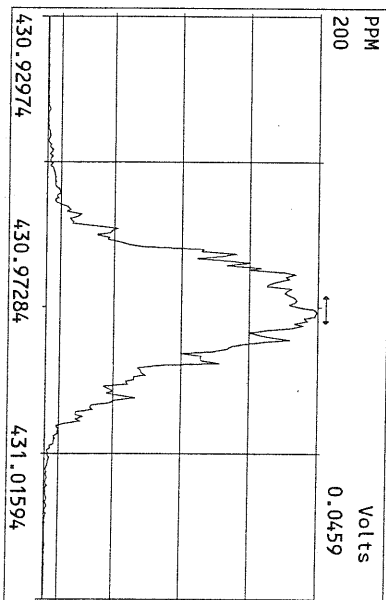
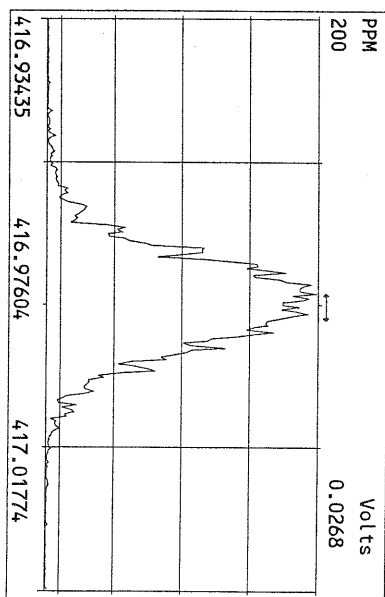
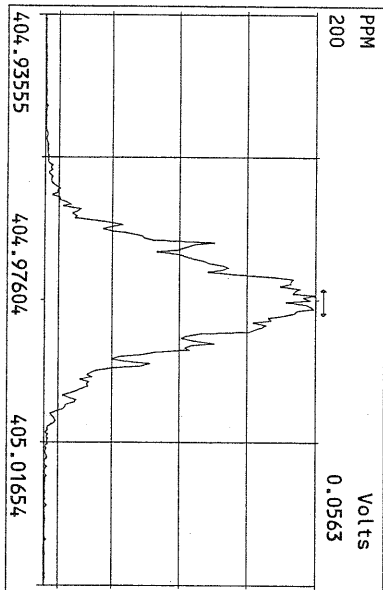
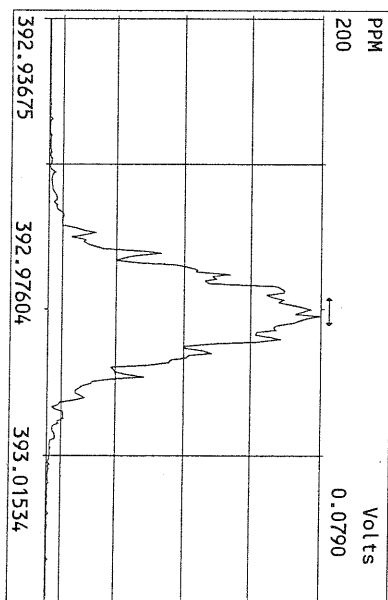
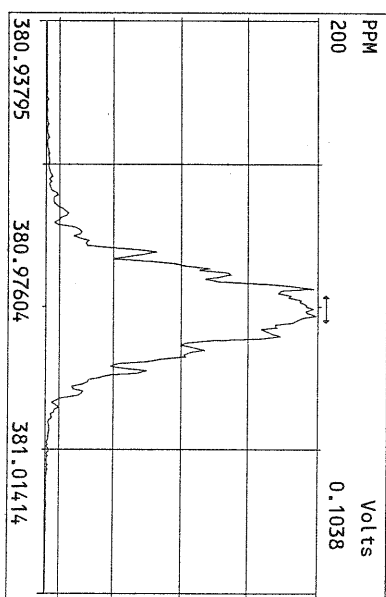
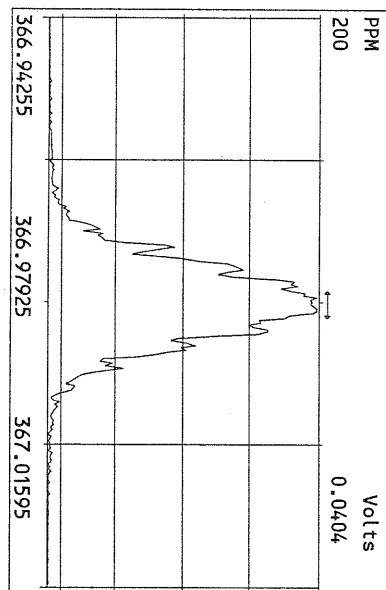


File:28AUG08M #1-347 Acq:29-AUG-2008 03:38:57 GC EI+ Voltage SIR Autospec-Ultima
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Sample Text:ST082808M5 File Text:Frontier Analytical Laboratory

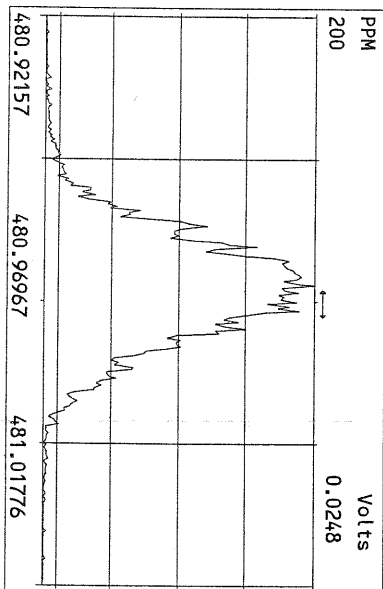
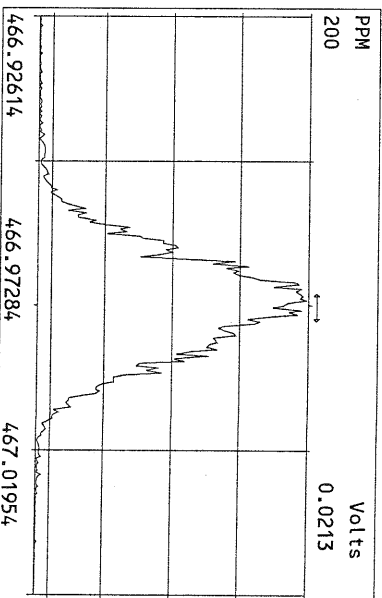
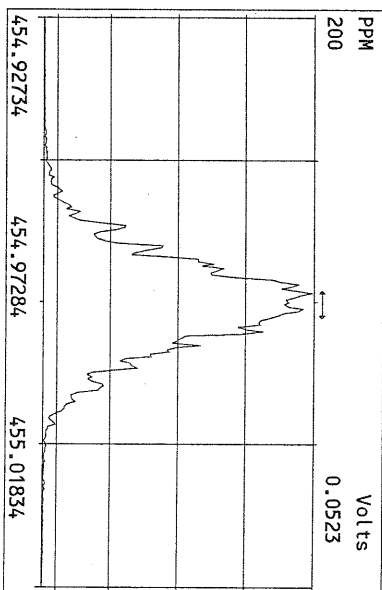
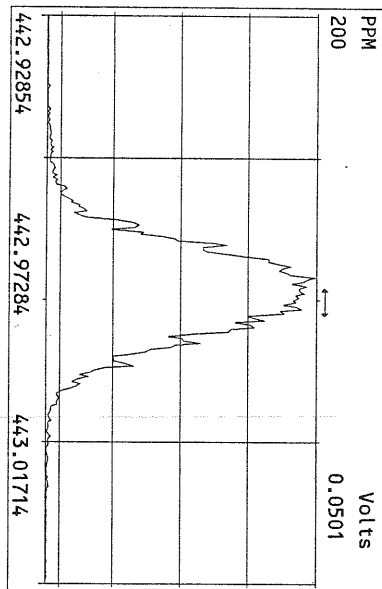
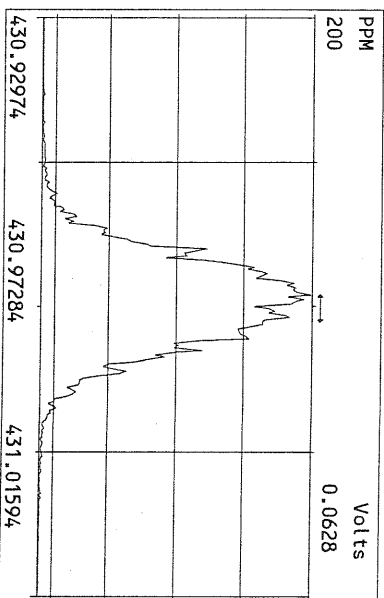
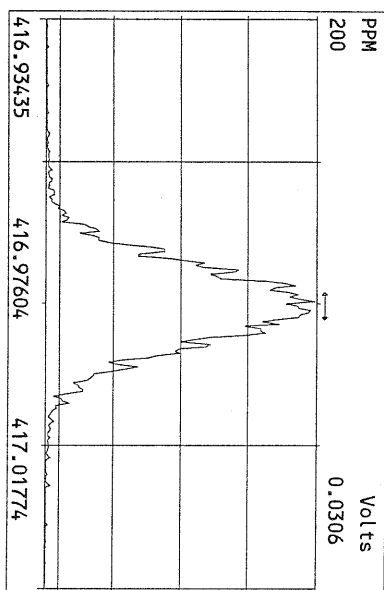
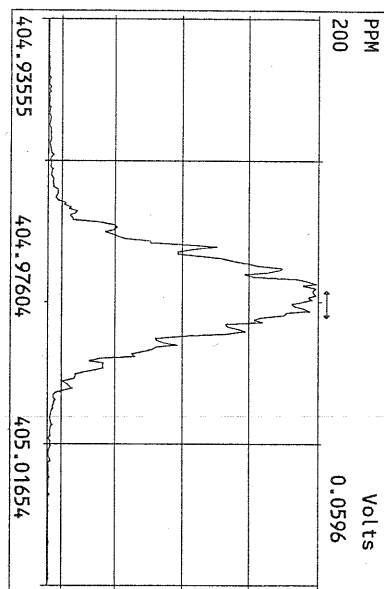


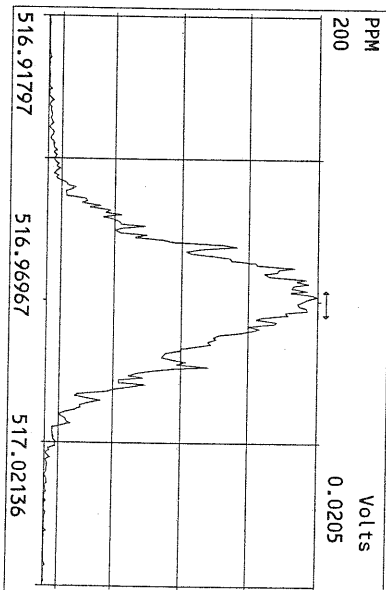
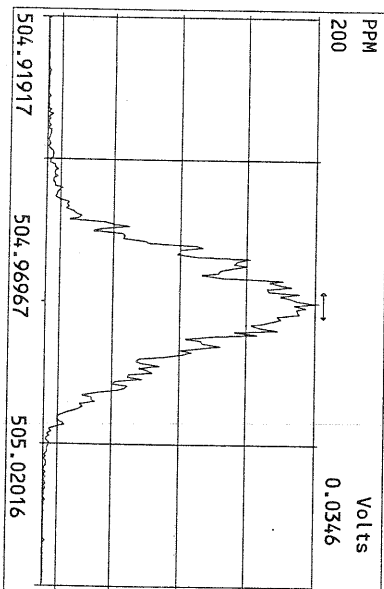
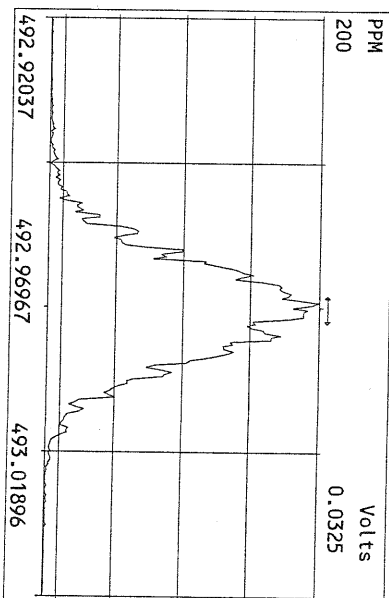
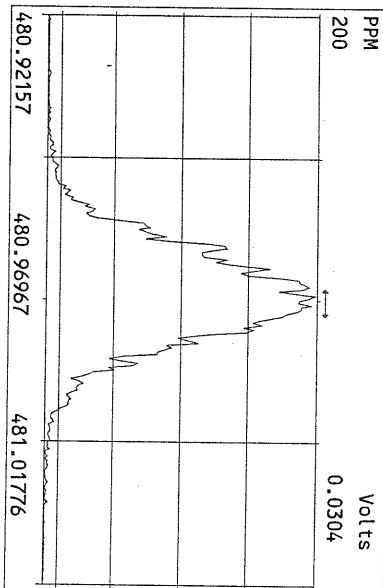
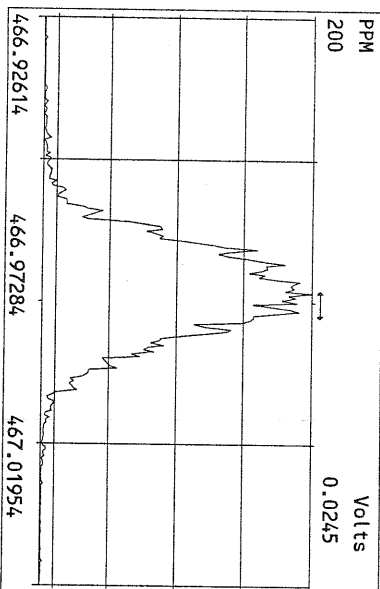
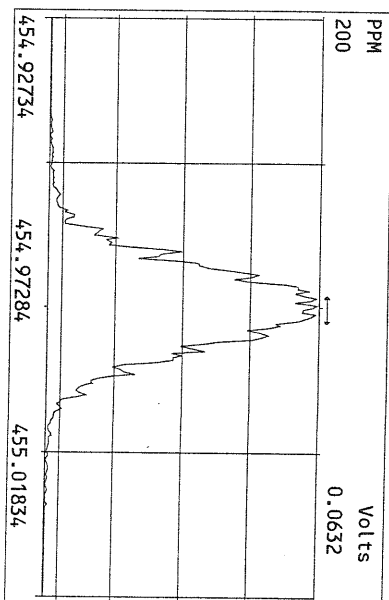
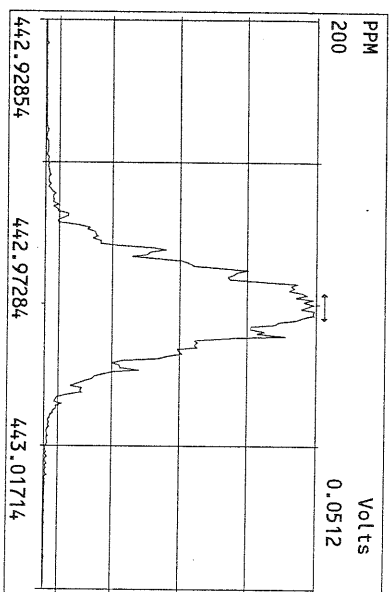
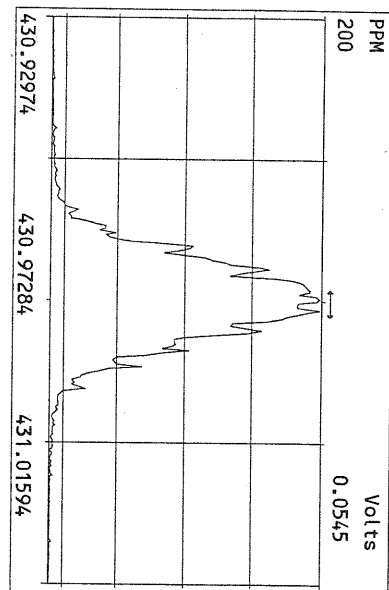






Peak Locate Examination: 29-AUG-2008:04:41 File: 28AUG08M_RES_CHECK
Experiment: PCD Function: 4 Reference: PFK





USEPA - ITD

AIR FORM 4A
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 15DEC08N Sam:1

Analysis Date: 15-DEC-08 16:30:27

	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	0.77	0.65-0.89	y	3.89	3.75 - 6.25 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.62	1.32-1.78	y	22.0	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	24.4	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.30	1.05-1.43	y	23.4	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.30	1.05-1.43	y	24.4	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	25.3	18.7 - 31.2 ✓
OCDD	M+2/M+4	0.90	0.76-1.02	y	45.6	37.5 - 62.5 ✓
2,3,7,8-TCDF	M/M+2	0.70	0.65-0.89	y	4.83	3.75 - 6.25 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	22.8	18.7 - 31.2 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	23.1	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	21.6	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	21.0	18.7 - 31.2 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	21.1	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	22.2	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	22.8	18.7 - 31.2 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.02	0.88-1.20	y	23.9	18.7 - 31.2 ✓
OCDF	M+2/M+4	0.91	0.76-1.02	y	44.3	35.0 - 65.0 ✓

Analyst: 

Date: 12/16/08

USEPA - ITD

AIR FORM 4B

PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3


GC Column ID: DB5

VER Data Filename: 15DEC08N

Sam:1

Analysis Date: 15-DEC-08 16:30:27

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	0.76	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	95.0	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	95.5	75.0 - 125 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	0.88-1.20	y	104	70.0 - 130 ✓
13C-OCDD	M+2/M+4	0.91	0.76-1.02	y	220	140 - 260 ✓
13C-2,3,7,8-TCDF	M/M+2	0.82	0.65-0.89	y	103	70.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	101	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.55	0.43-0.59	y	102	70.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.44	0.37-0.51	y	98.7	70.0 - 130 ✓
13C-OCDF	M+2/M+4	0.95	0.76-1.02	y	229	140 - 260 ✓
CLEANUP SURROGATE						
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.55	0.43-0.59	y	110	75.0 - 125 ✓
PRE-SPIKE SURROGATE						
37Cl-2,3,7,8-TCDD					92.8	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	107	75.0 - 125 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	106	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.55	0.43-0.59	y	106	75.0 - 125 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.43	0.37-0.51	y	103	75.0 - 125 ✓

Analyst: Date: 12/16/08

Lab Name: Frontier Analytical Laboratory	Episode No.:
Contract No.:	SAS No.:
Instrument ID: FAL3	Initial Calibration Date: 8/29/08
RT Window Data Filename: 15DEC08N Sam:1	Analysis Date: 15-DEC-08 Time: 16:30:27
DB-5 IS Data Filename: 15DEC08N Sam:1	Analysis Date: 15-DEC-08 Time: 16:30:27
DB-225 IS Data Filename:	Analysis Date: Time:

ABSOLUTE		ABSOLUTE	
ISOMERS	RT	ISOMERS	RT
1,3,6,8-TCDD (F)	24:22 ✓	1,3,6,8-TCDF (F)	23:01 ✓
1,2,8,9-TCDD (L)	28:19 ✓	1,2,8,9-TCDF (L)	28:32 ✓
1,2,4,7,9-PeCDD (F)	30:13 ✓	1,3,4,6,8-PeCDF (F)	28:23 ✓
1,2,3,8,9-PeCDD (L)	33:47 ✓	1,2,3,8,9-PeCDF (L)	34:12 ✓
1,2,4,6,7,9-HxCDD (F)	36:07 ✓	1,2,3,4,6,8-HxCDF (F)	35:14 ✓
1,2,3,7,8,9-HxCDD (L)	39:11 ✓	1,2,3,7,8,9-HxCDF (L)	39:46 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:48 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:17 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:12 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:07 ✓

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: JS Date: 12/16/08

Results:	GC Column: DB5	Amount: 1.000	NATO 1989 Tox: 44.7
			WHO 1998 Tox: 55.6

Analyst:

Date:

Frontier Analytical Laboratory - Acquisition Log

Run Name:15DEC08N

Instrument: FAL3

GC: DB5

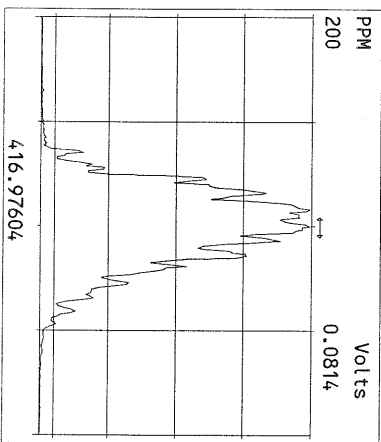
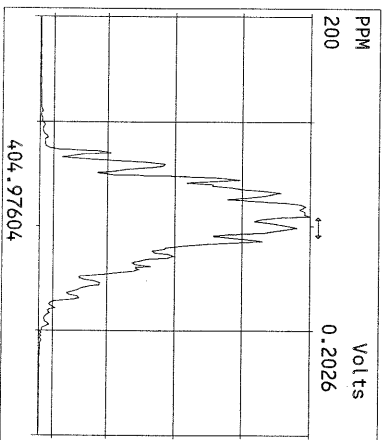
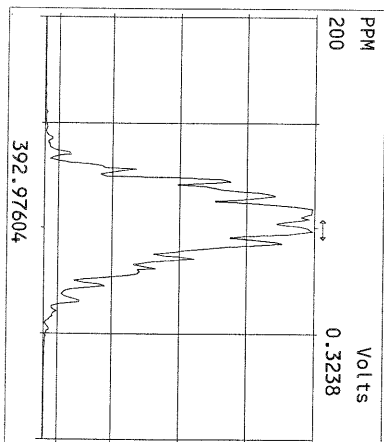
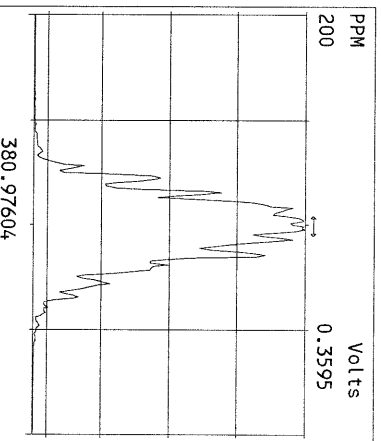
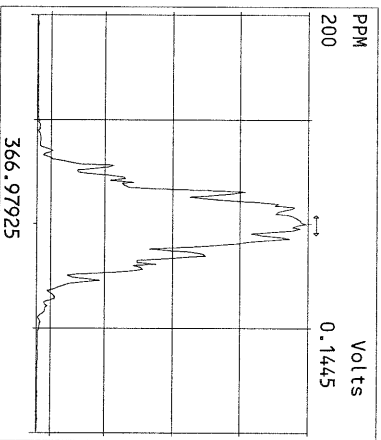
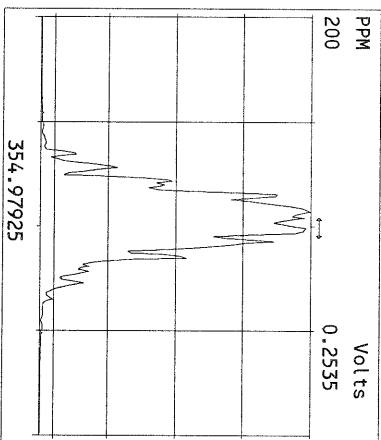
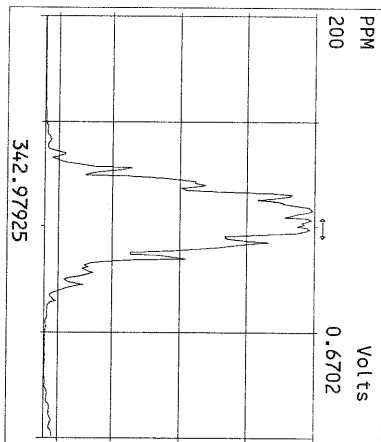
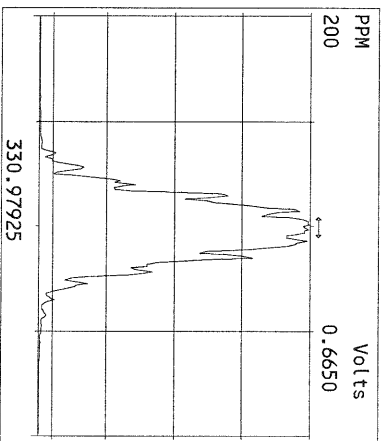
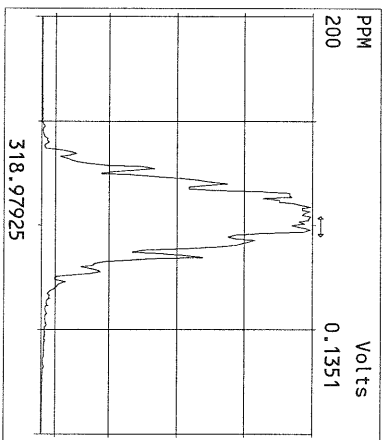
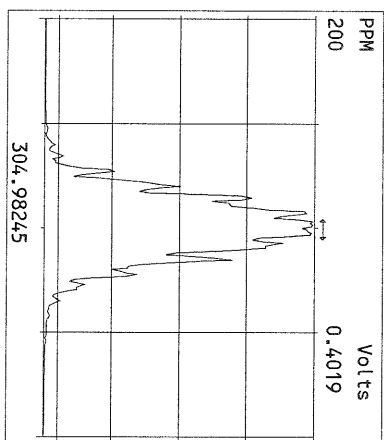
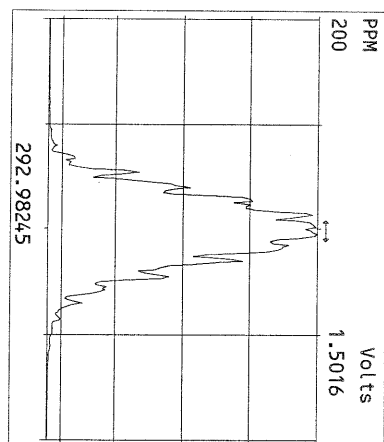
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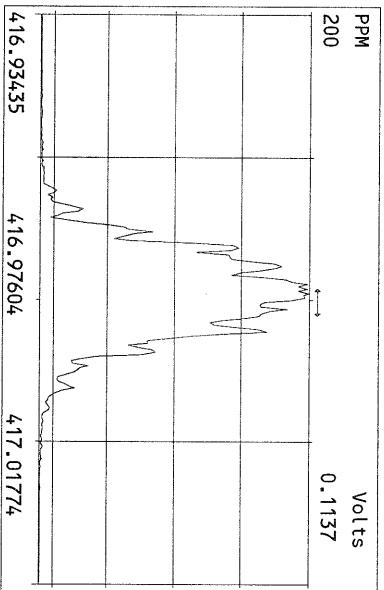
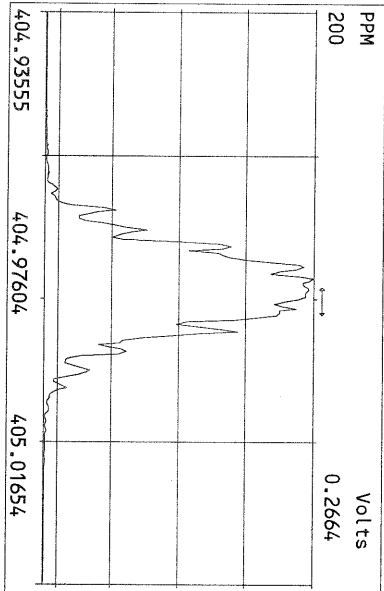
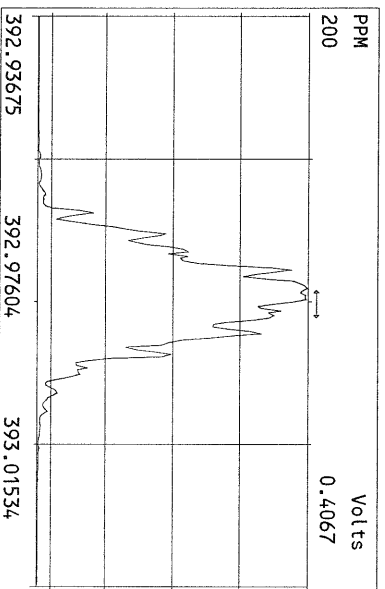
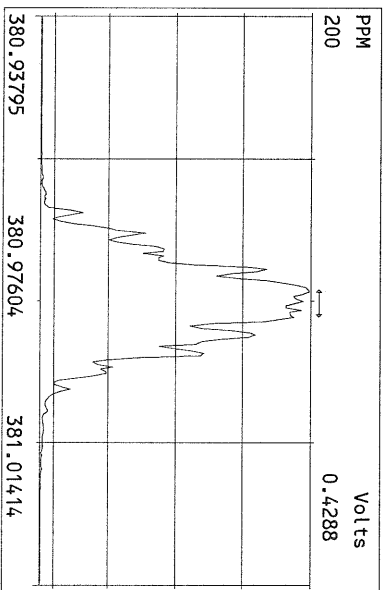
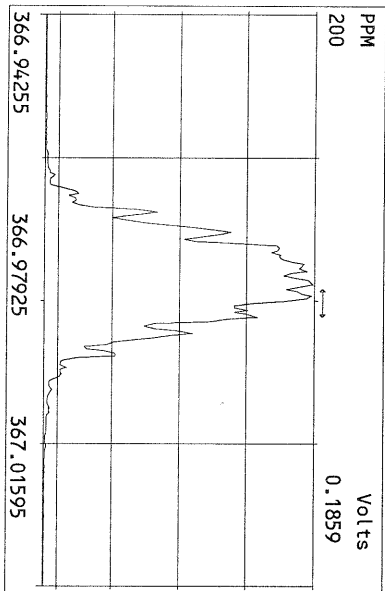
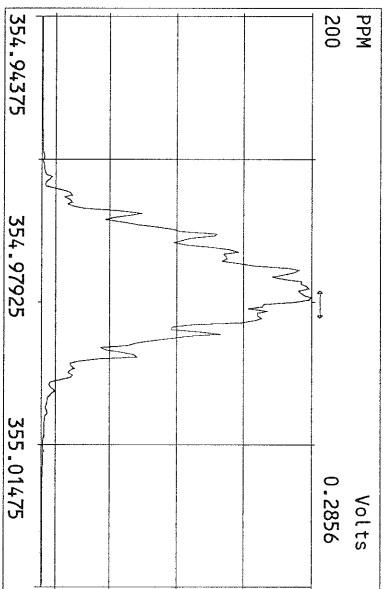
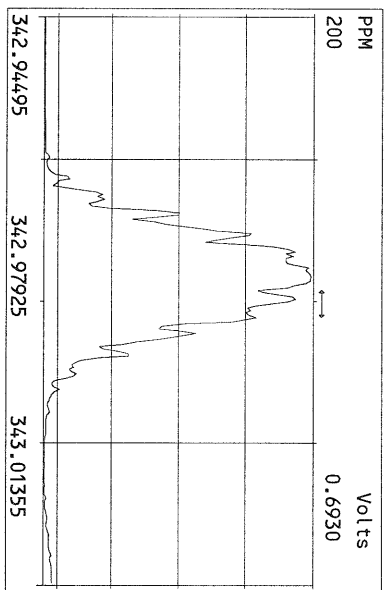
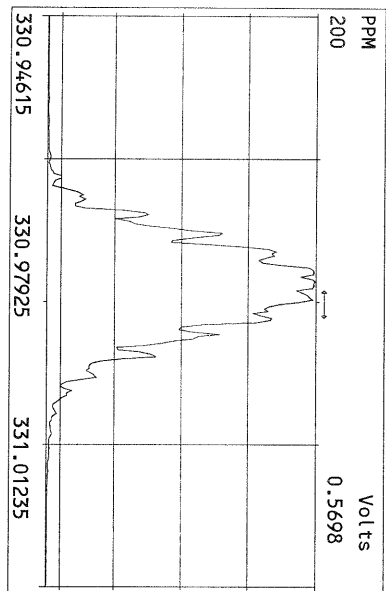
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15DEC08N 23	SB121508N2	Solvent Blank	16-DEC-08 12:46:03	ST121508N3	ST121508N4	TC
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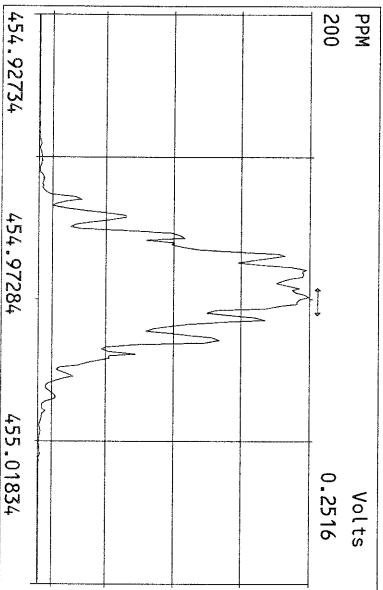
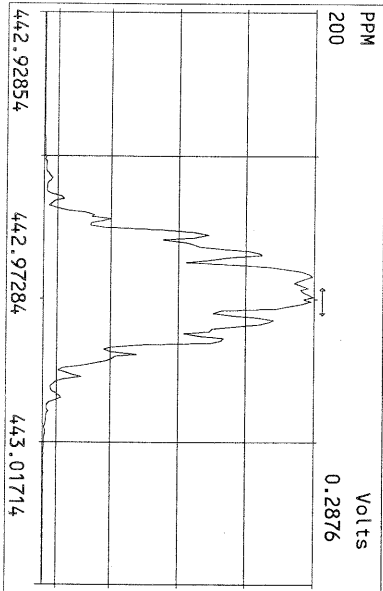
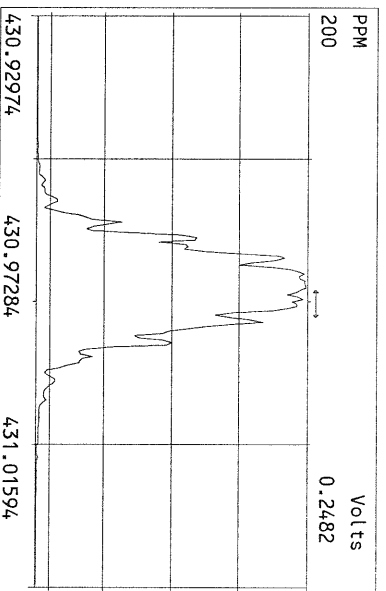
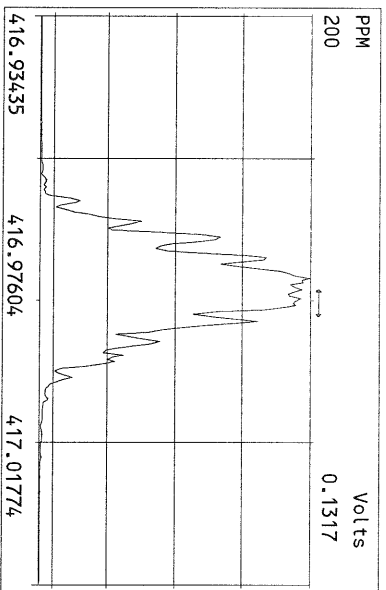
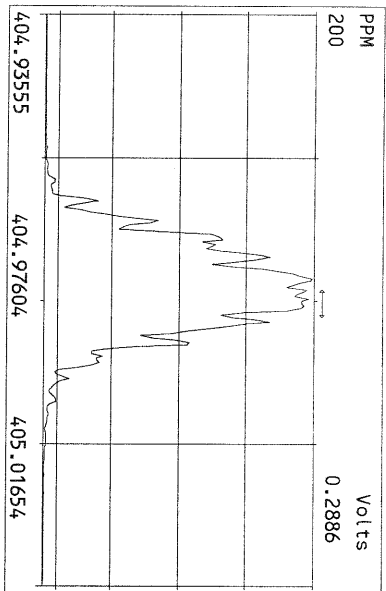
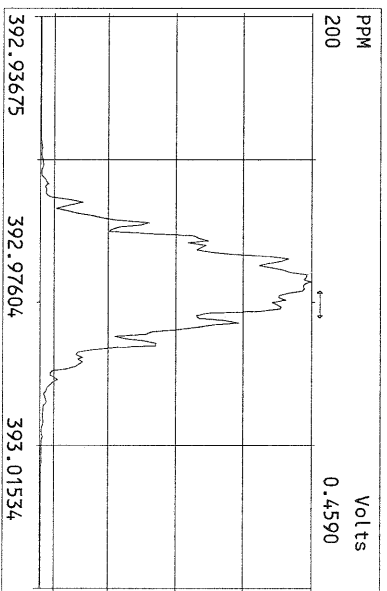
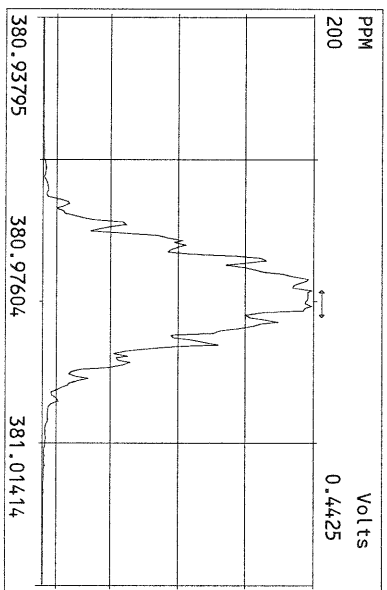
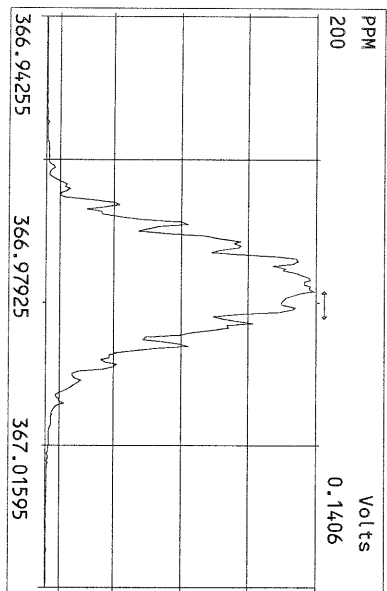
 12/16/08

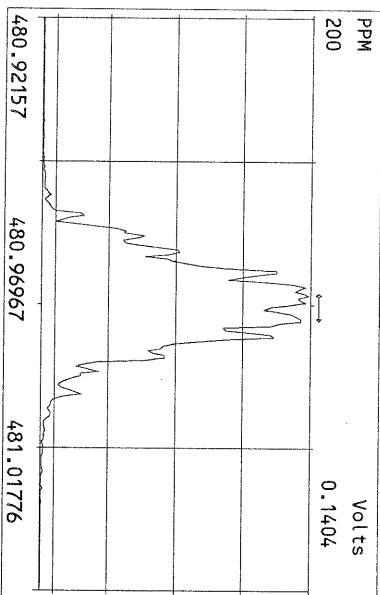
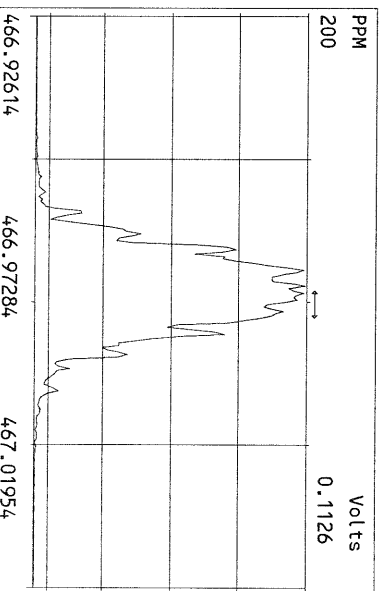
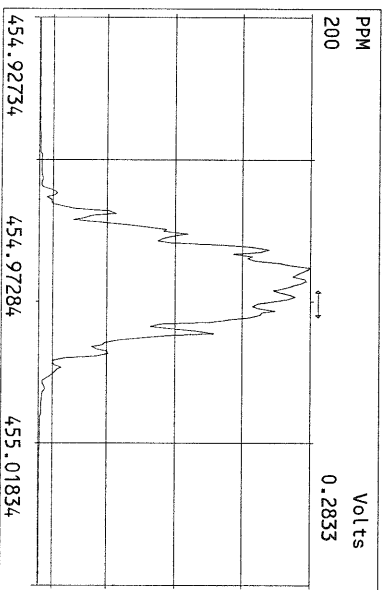
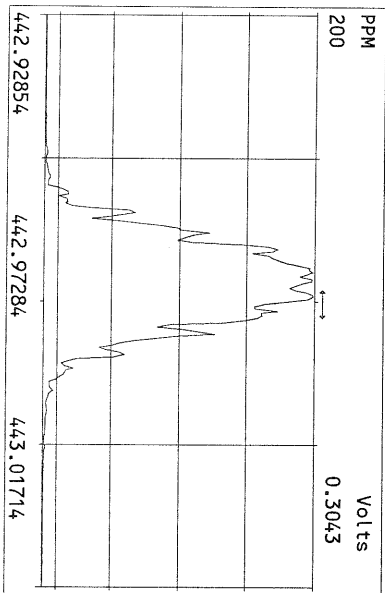
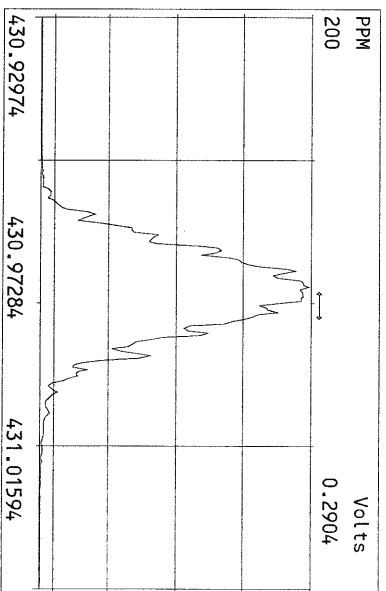
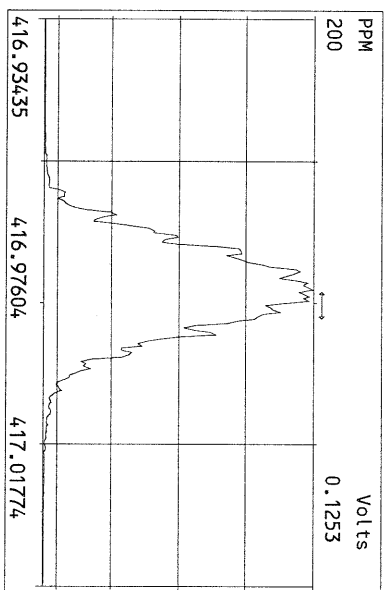
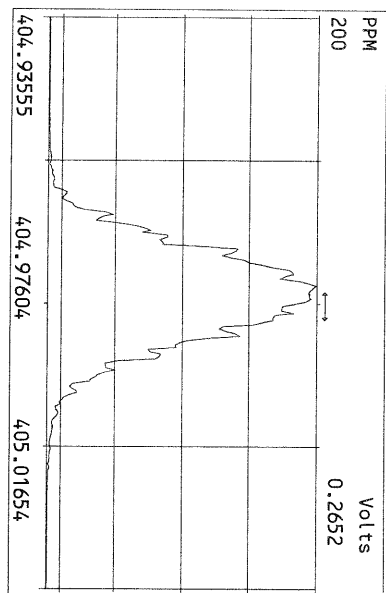
Data Backed Up: _____

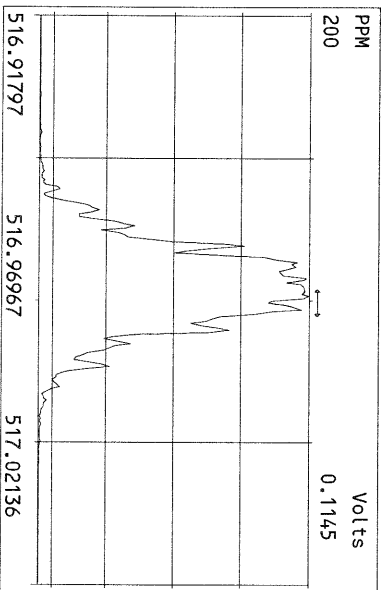
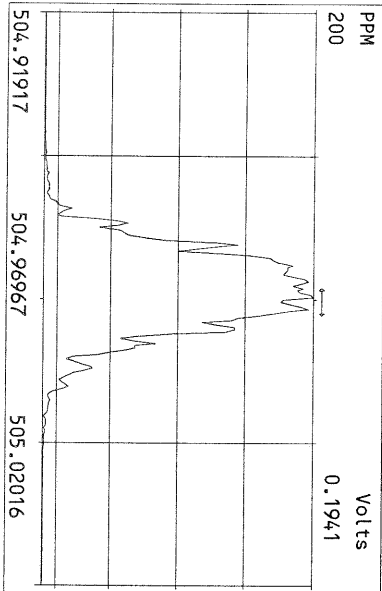
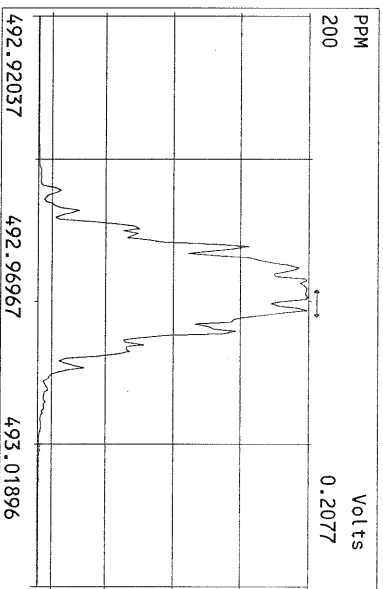
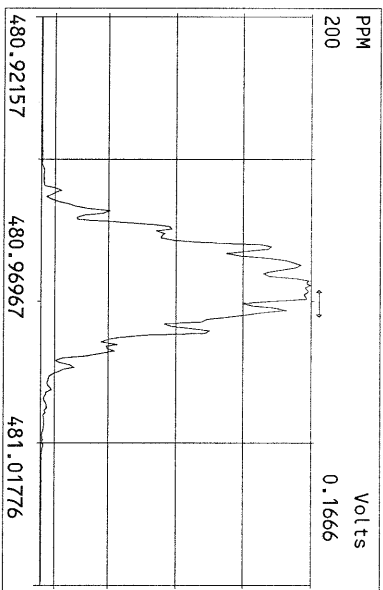
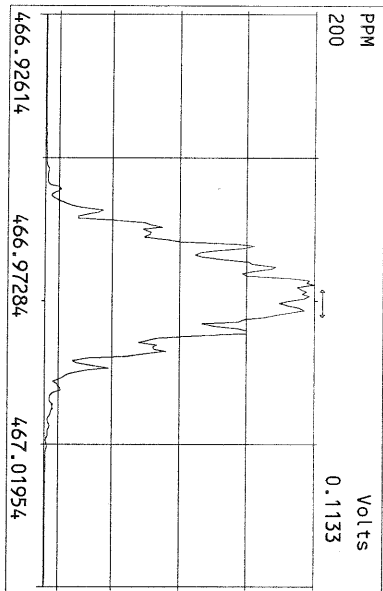
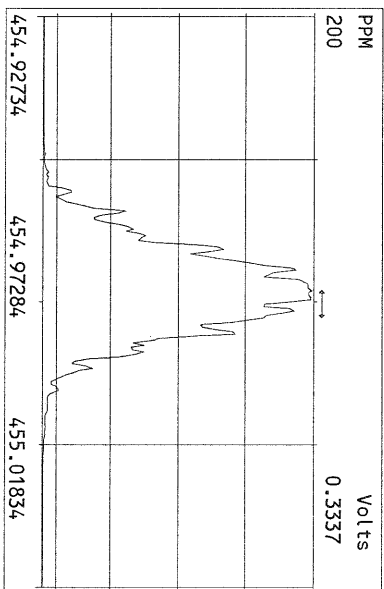
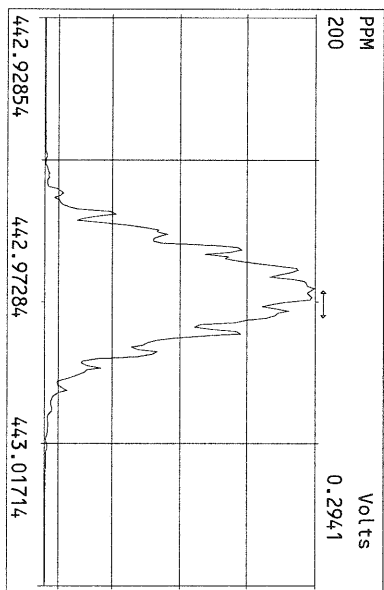
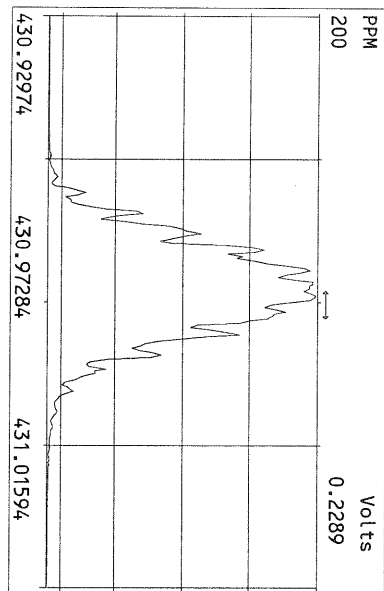
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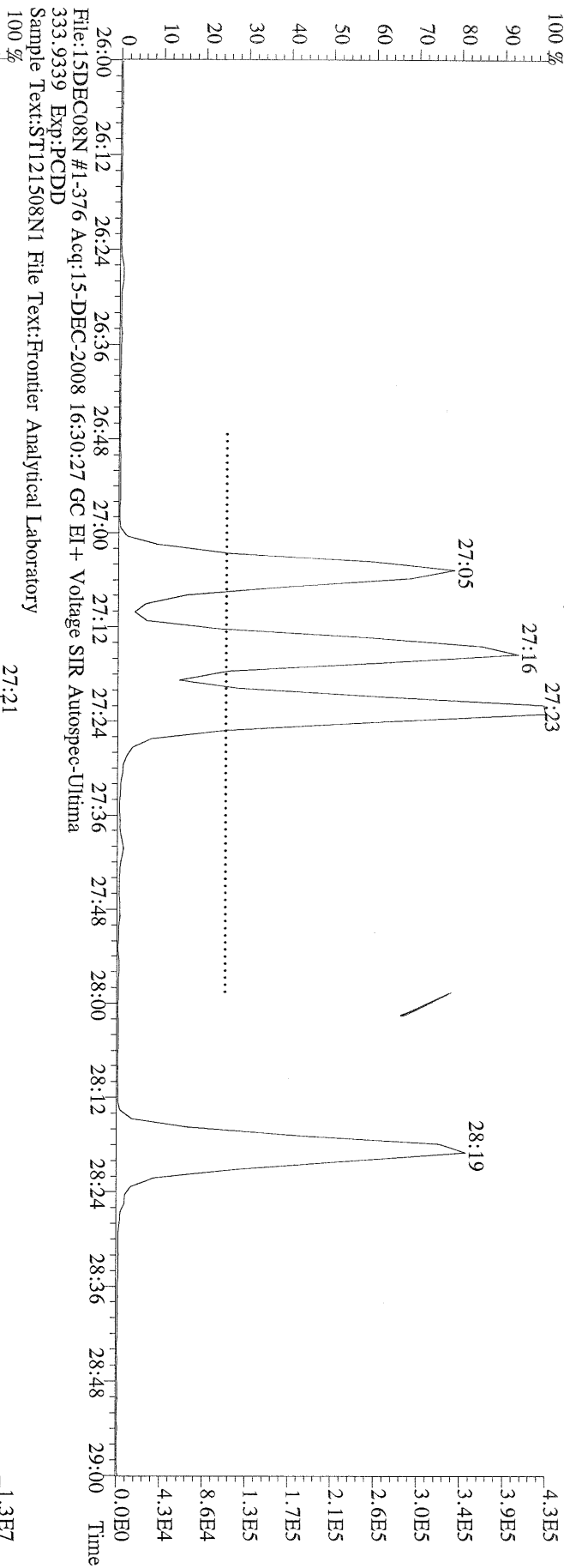




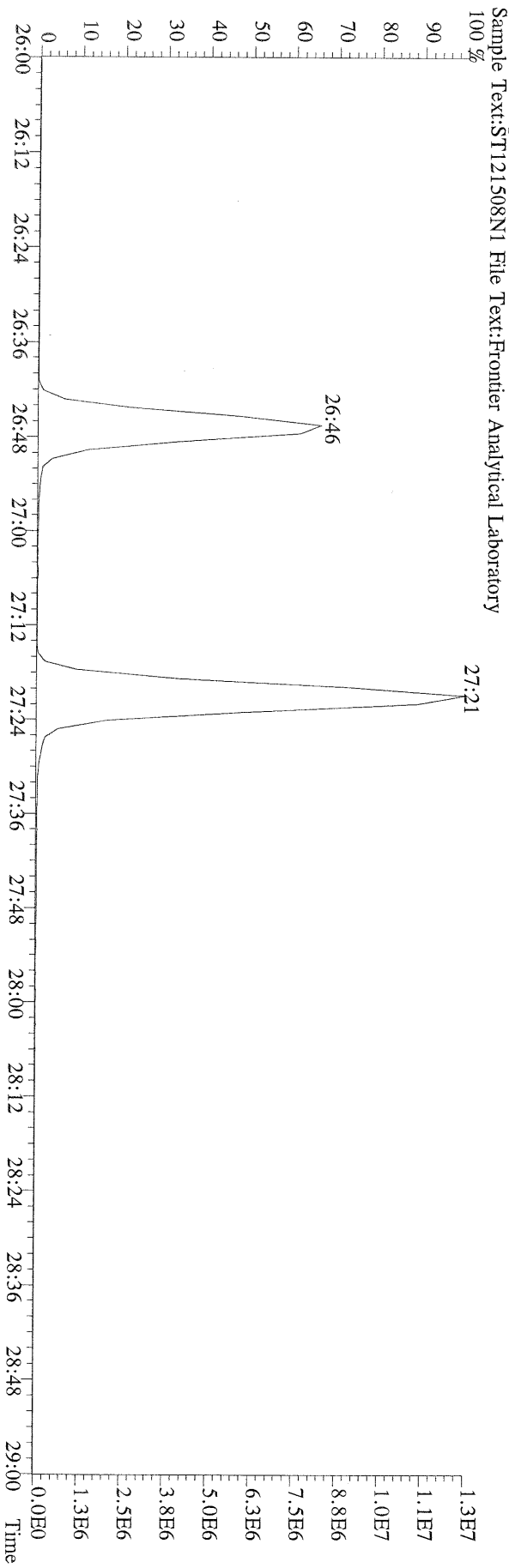




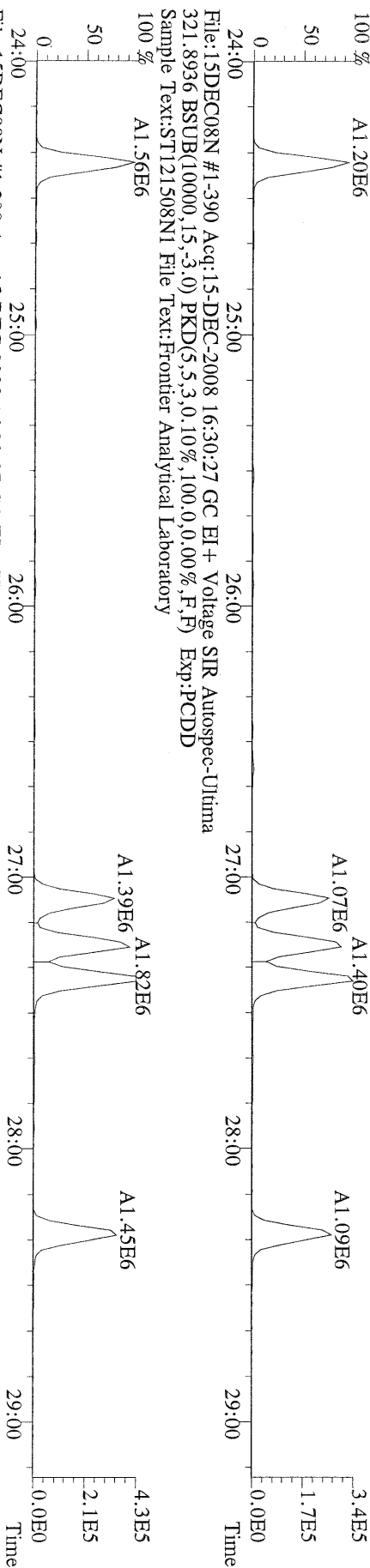
File:15DEC08N #1-376 Acq:15-DEC-2008 16:30:27 GC EI+ Voltage SIR Autospec-Ultima
321.8936 Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



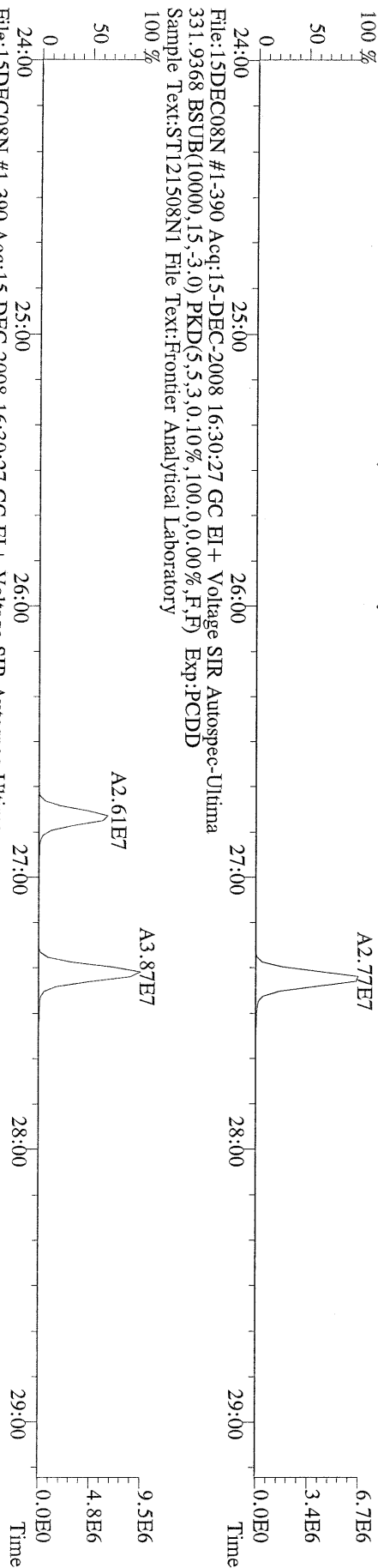
File:15DEC08N #1-376 Acq:15-DEC-2008 16:30:27 GC EI+ Voltage SIR Autospec-Ultima
333.9339 Exp:PCDD



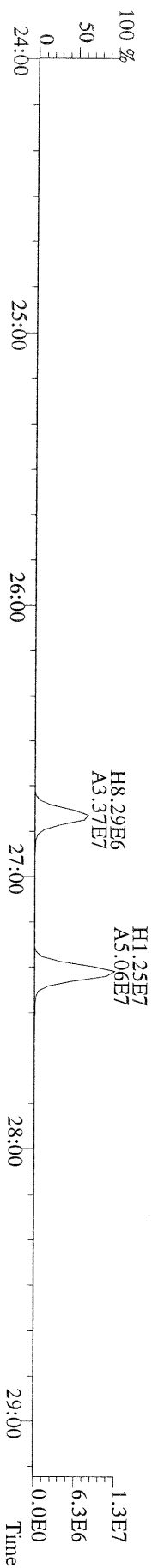
File:15DEC08N #1-390 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



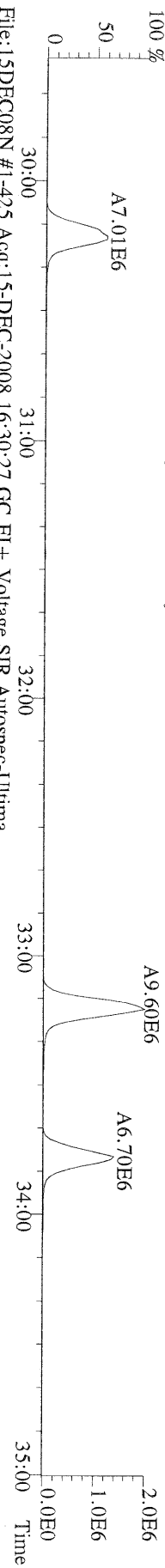
File:15DEC08N #1-390 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



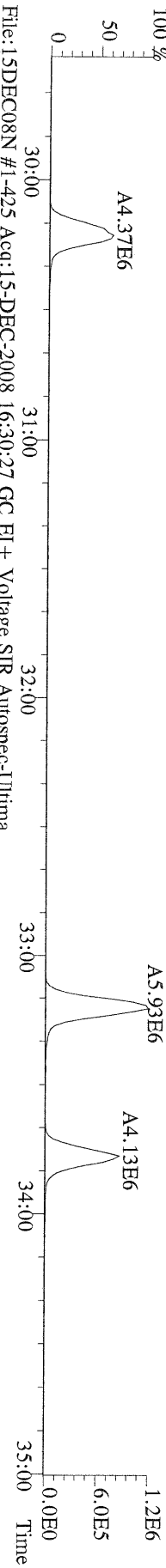
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333.9339 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



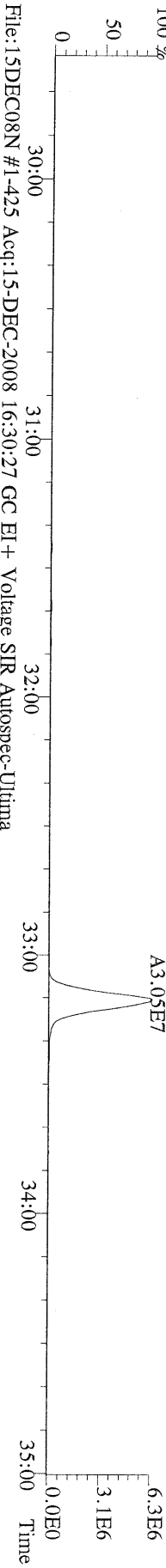
File:15DEC08N #1-425 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



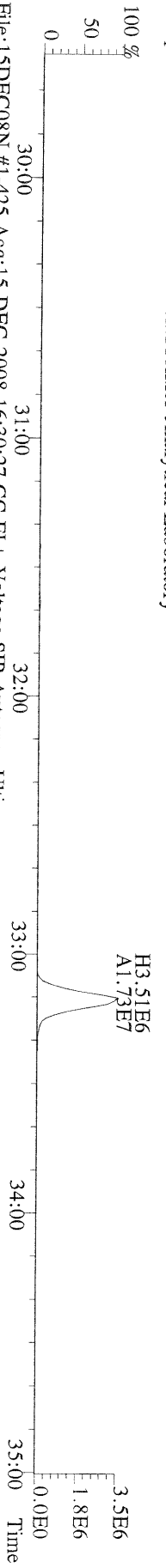
File:15DEC08N #1-425 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
357.8517 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



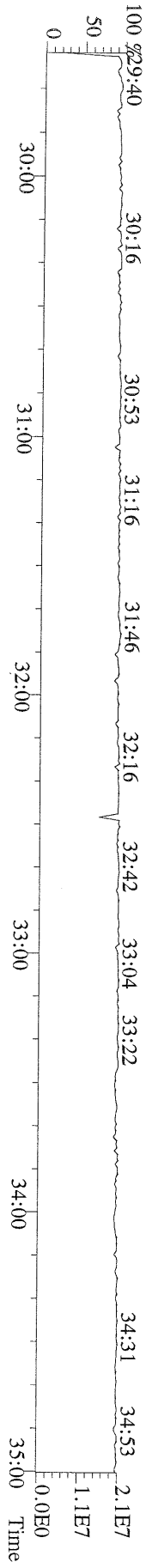
File:15DEC08N #1-425 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



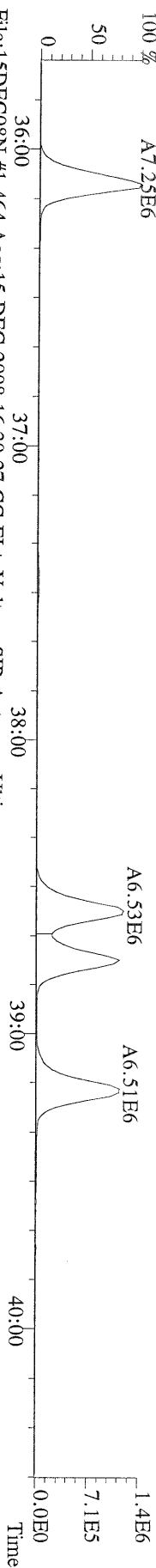
File:15DEC08N #1-425 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
369.8919 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



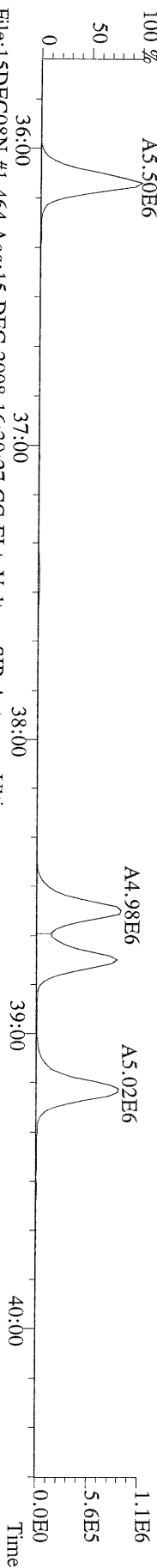
File:15DEC08N #1-425 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
366.9792 F:2 Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



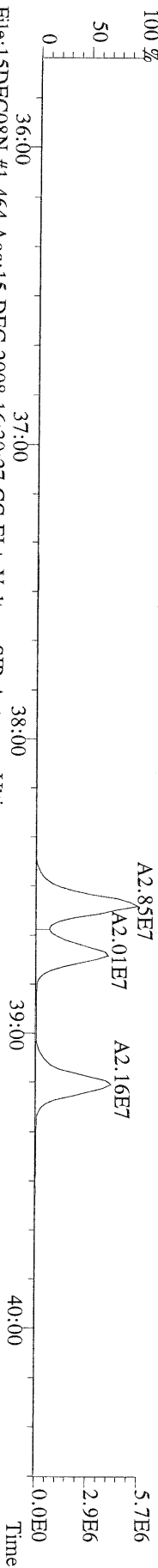
File:15DEC08N #1-464 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



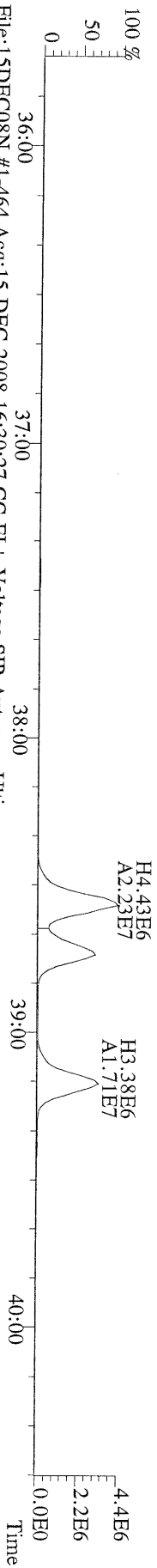
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391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



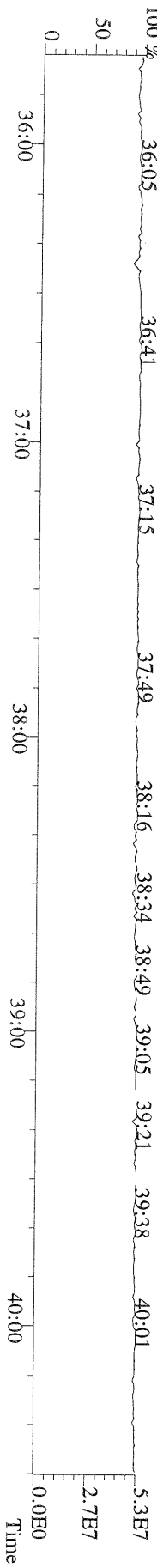
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401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



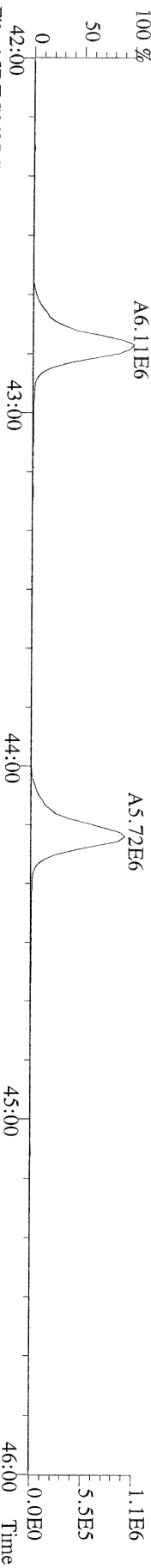
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403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



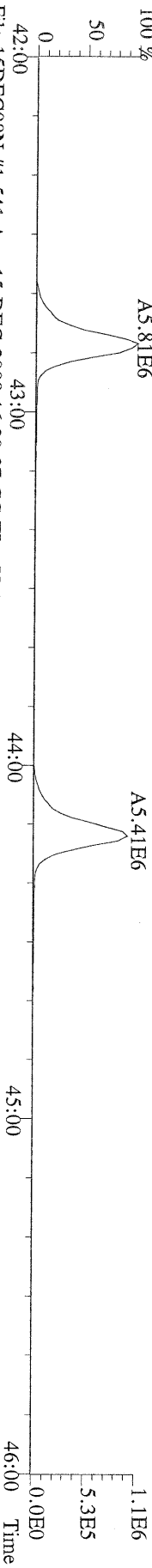
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380.9760 F:3 Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



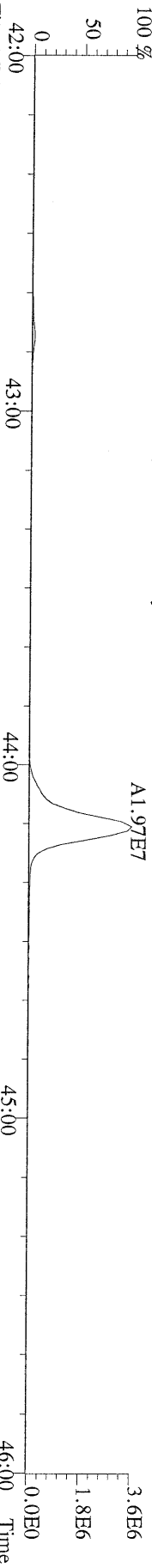
File:15DEC08N #1-541 Acq:15-DEC-2008 16:30:27 GC EI+ Voltage SIR Autospec-Ultima
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



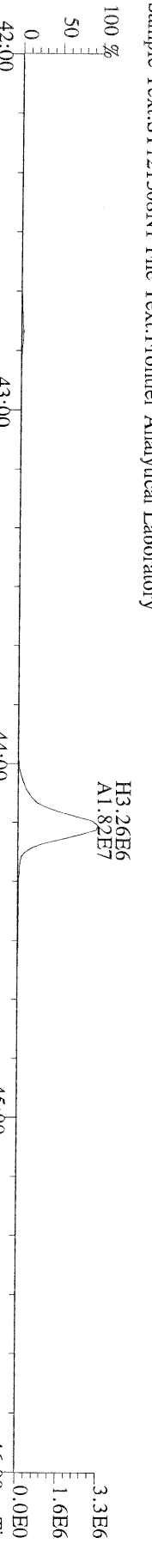
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425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



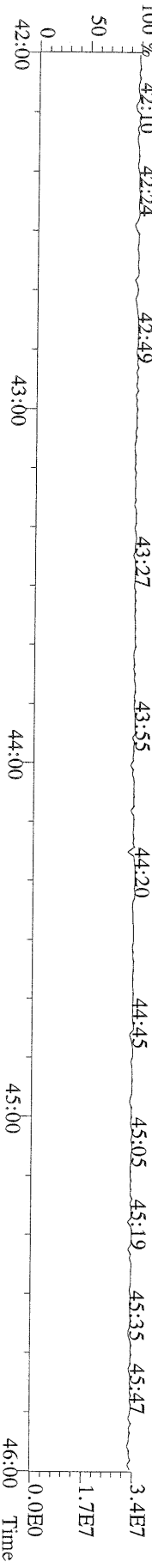
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435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



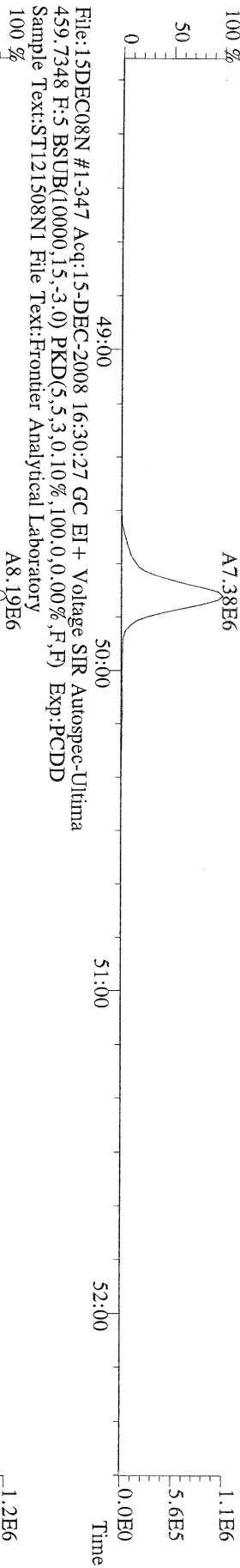
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437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



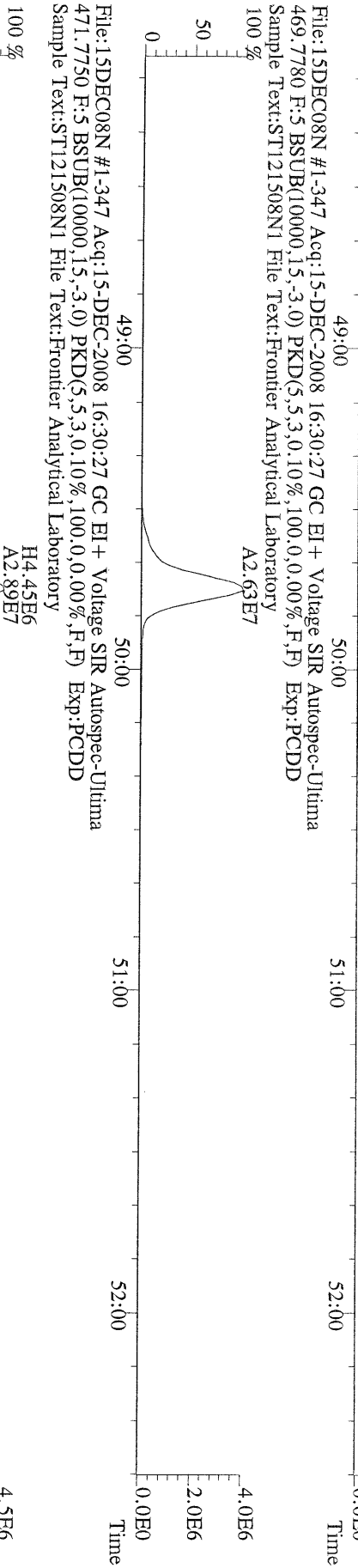
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430.9728 F:4 Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



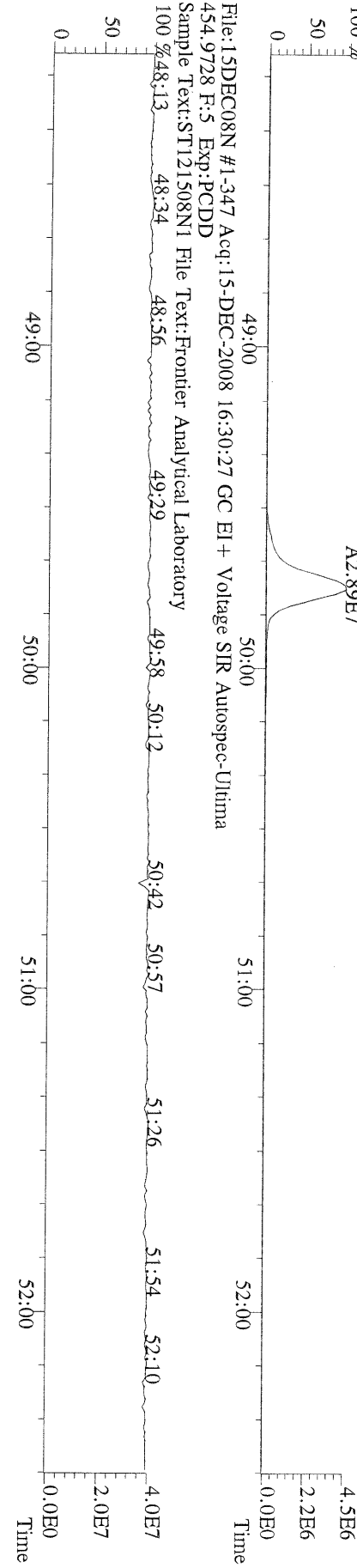
File:15DEC08N #1-347 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory
100 %



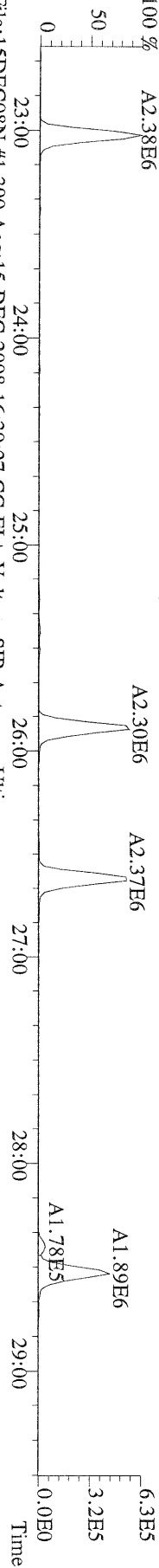
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469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory
100 %



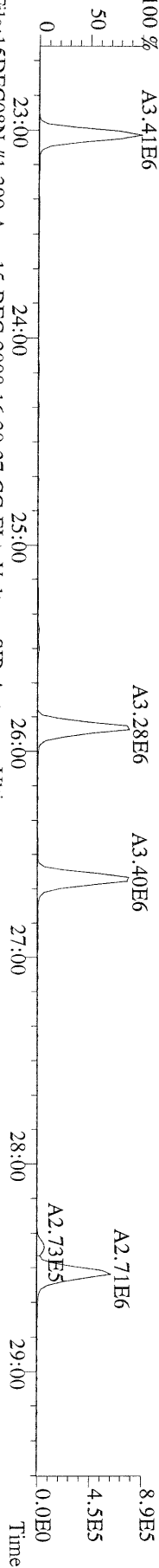
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471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory
100 %



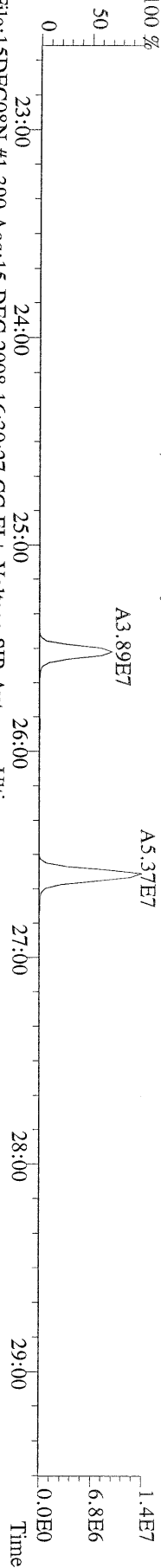
File:15DEC08N #1-390 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



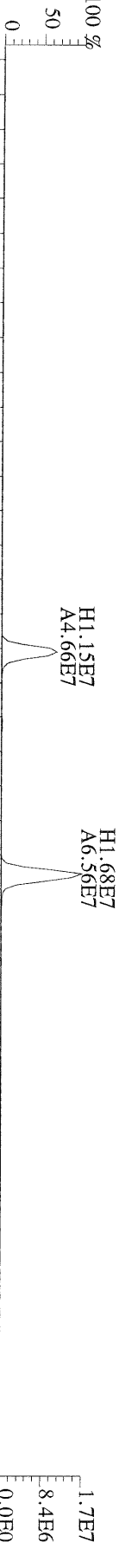
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305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



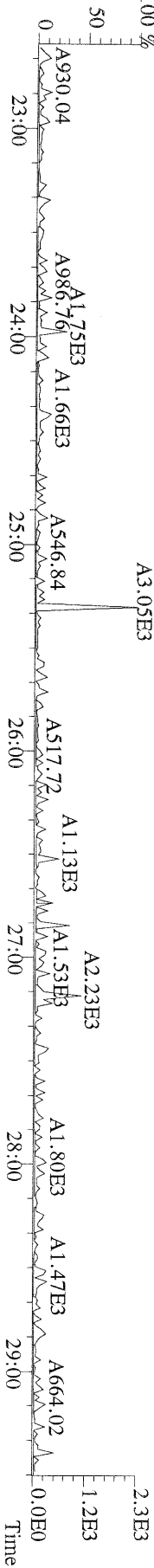
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315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



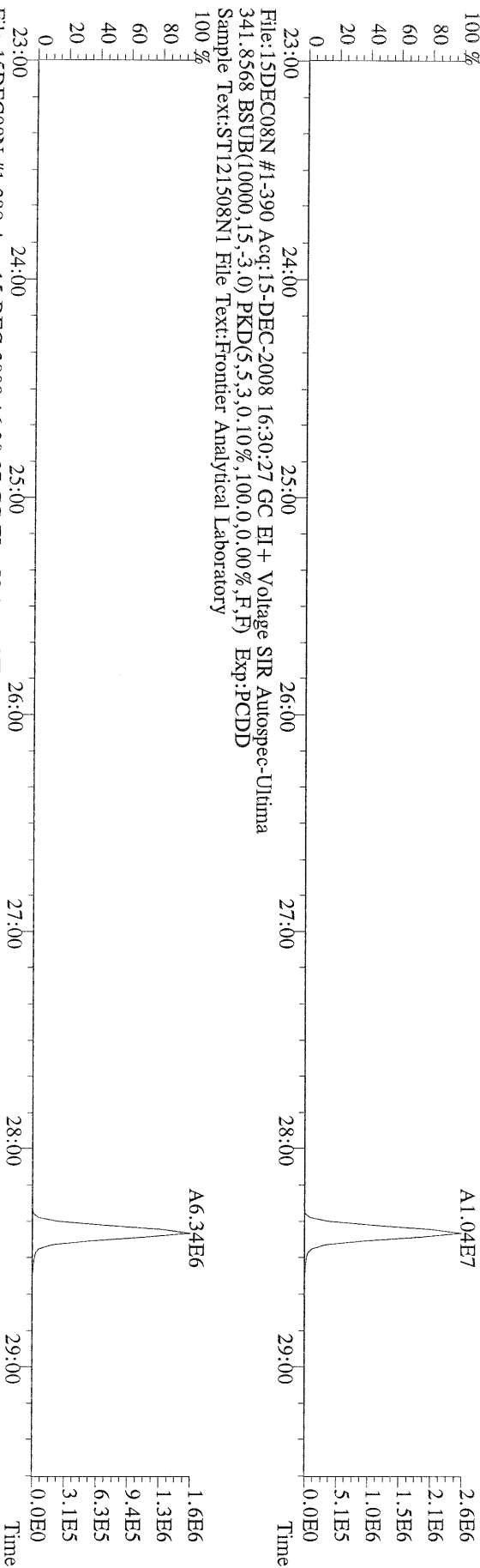
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317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



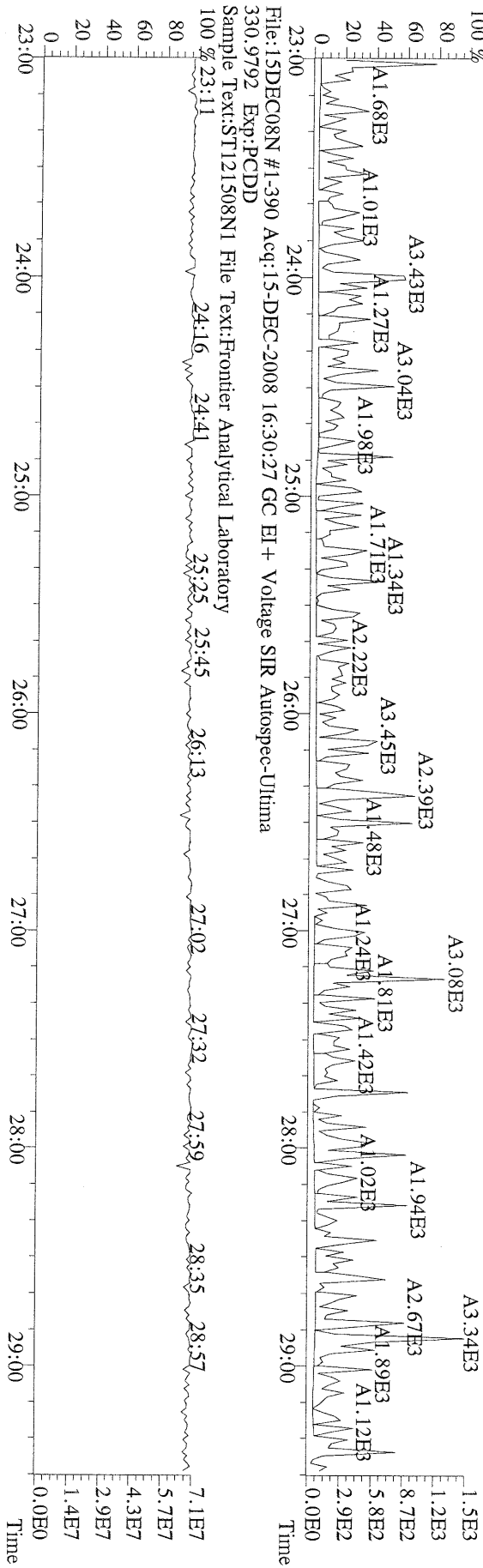
File:15DEC08N #1-390 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



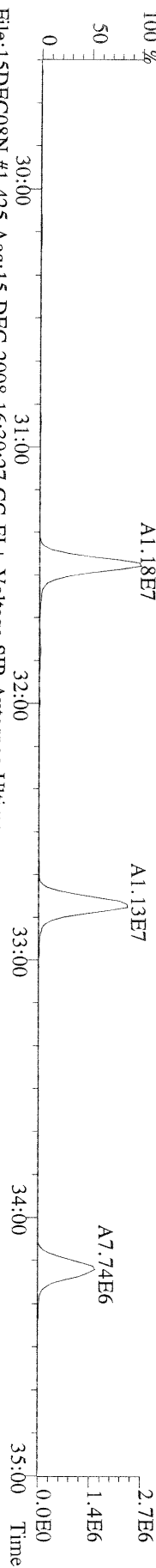
File:15DEC08N #1-390 Acq:15-DEC-2008 16:30:27 GC EI+ Voltage SIR Autospec-Ultima
339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



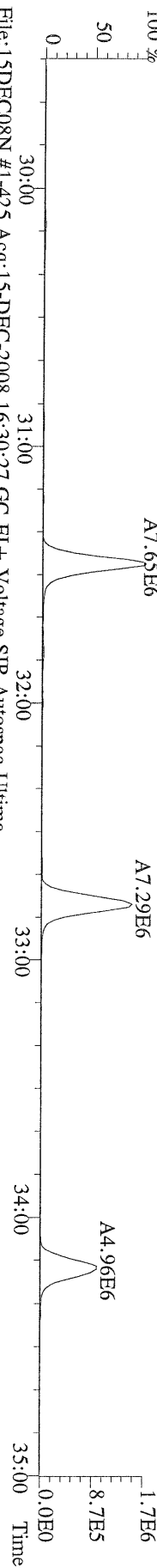
File:15DEC08N #1-390 Acq:15-DEC-2008 16:30:27 GC EI+ Voltage SIR Autospec-Ultima
409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



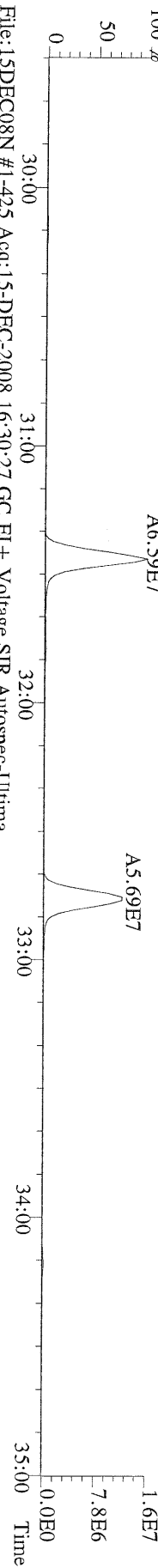
File:15DEC08N #1-425 Acq:15-DEC-2008 16:30:27 GC EI+ Voltage SIR Autospec-Ultima
339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



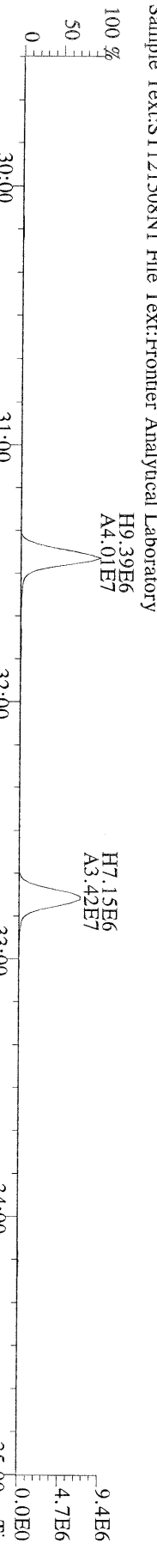
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341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



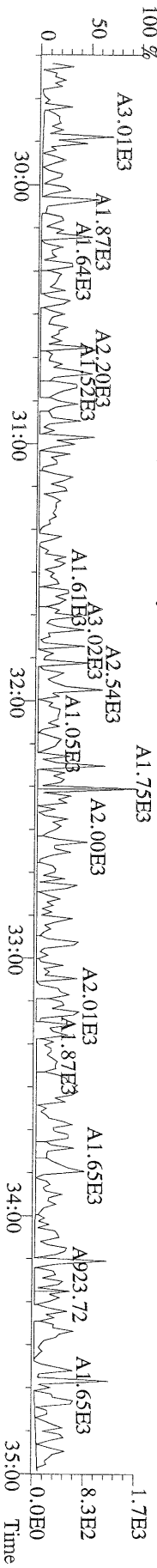
File:15DEC08N #1-425 Acq:15-DEC-2008 16:30:27 GC EI+ Voltage SIR Autospec-Ultima
351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



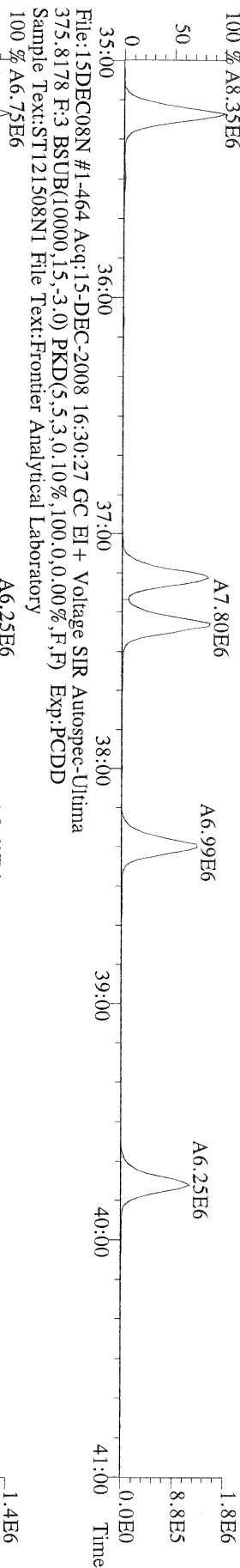
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353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



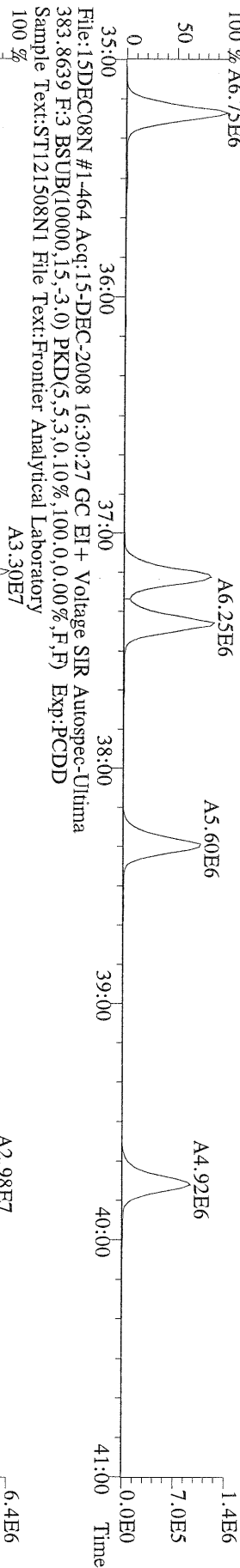
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409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



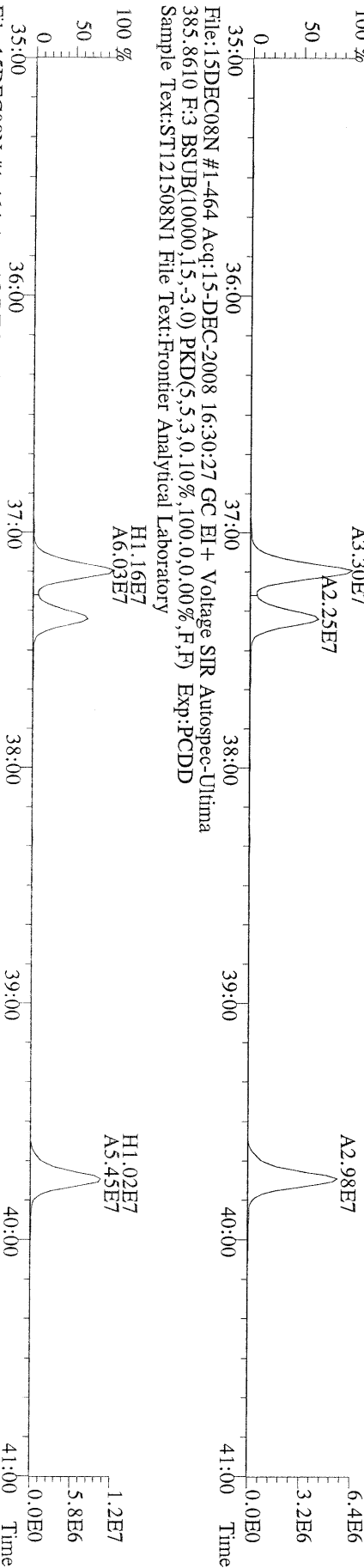
000177 of 000211



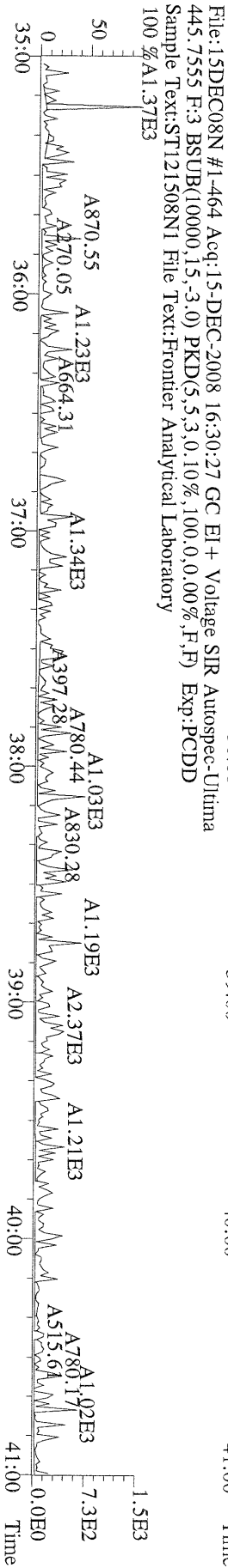
File:15DEC08N #1-464 Acq:15-DEC-2008 16:30:27 GC EI+ Voltage SIR Autospec-Ultima
375.8178 F:3 BSub(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory
100 % A6.75E6 A6.25E6



File:15DEC08N#1-464 Acq:15-DEC-2008 16:30:27 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:ST121508N1 File Text:Frontier Analytical Laboratory
100% A3.30E7



Chromatogram showing two peaks at retention times 36.03 and 36.37 minutes. The y-axis is labeled '100 %' and the x-axis is labeled 'Time (min)'.



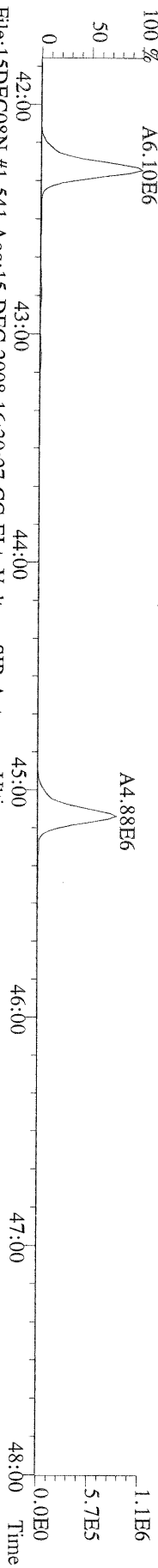
File:15DEC08N #1-464 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
445:7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory

100 % A1.37E3

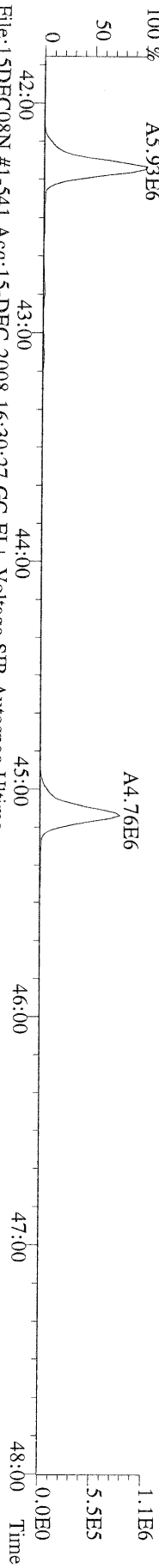
A870.55 A1.23E3 A770.05 A664.31 A1.34E3 A397.28 A780.44 A1.03E3 A8

35:00 36:00 37:00 38:00

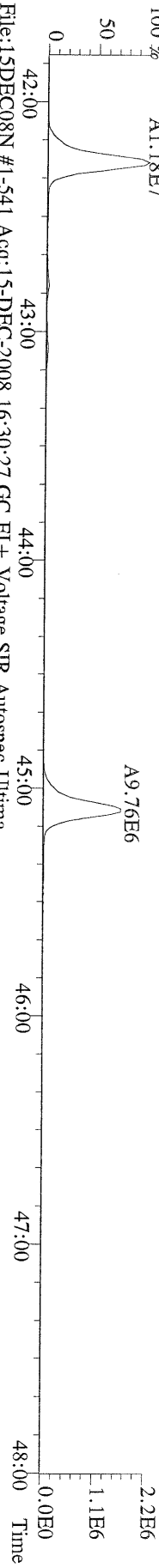
File:15DEC08N #1-541 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



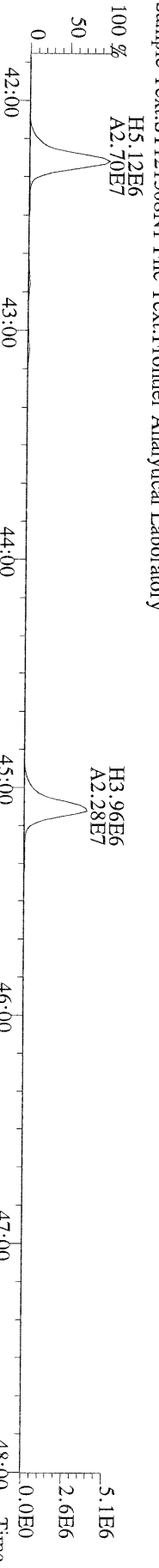
File:15DEC08N #1-541 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



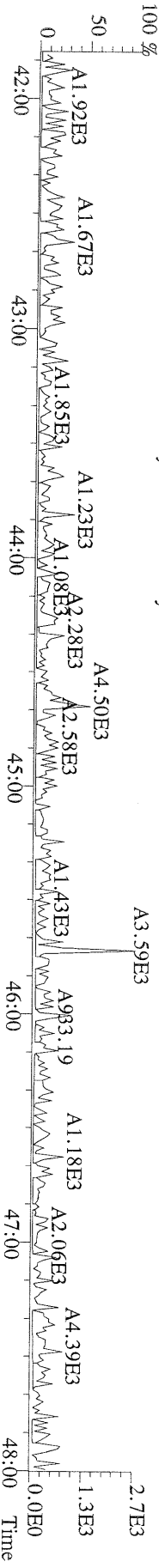
File:15DEC08N #1-541 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



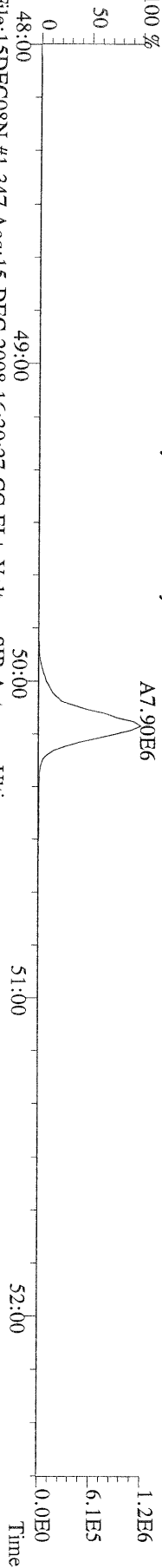
File:15DEC08N #1-541 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



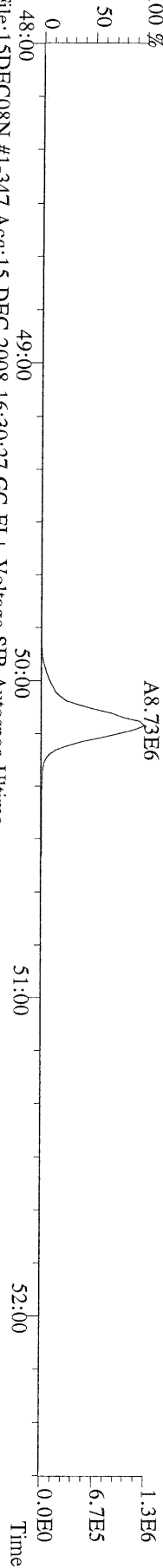
File:15DEC08N #1-541 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



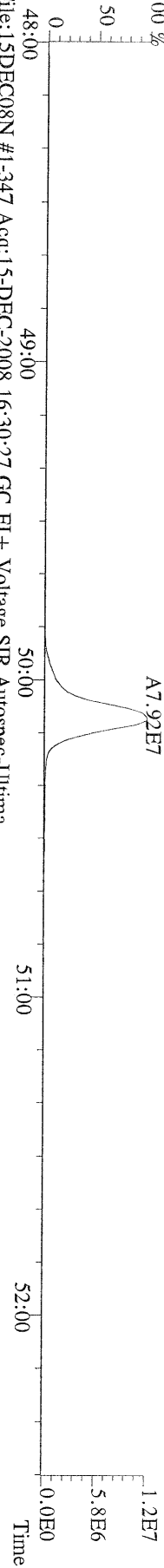
File:15DEC08N #1-347 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



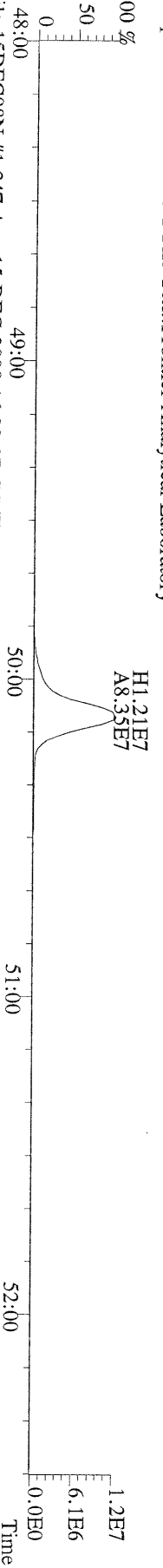
File:15DEC08N #1-347 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory



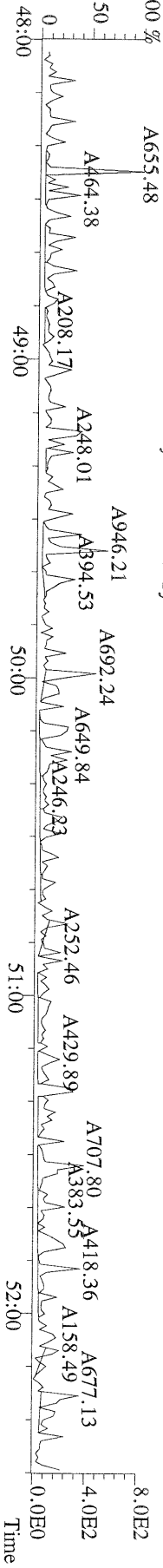
File:15DEC08N #1-347 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory

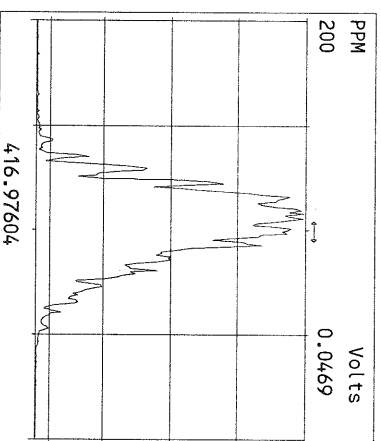
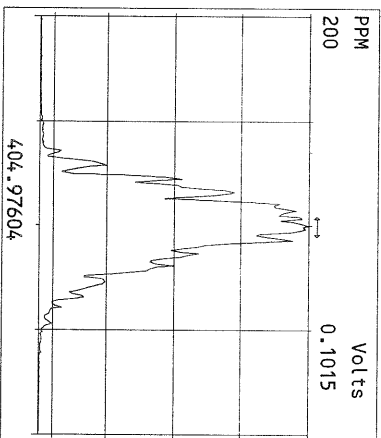
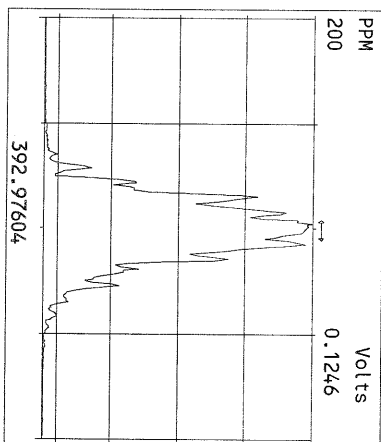
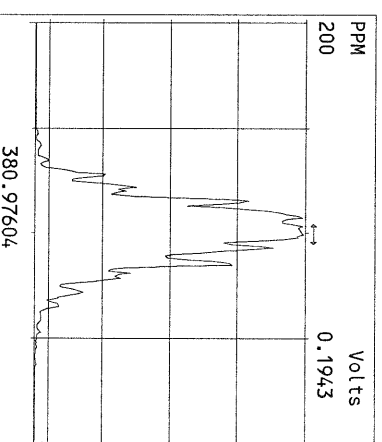
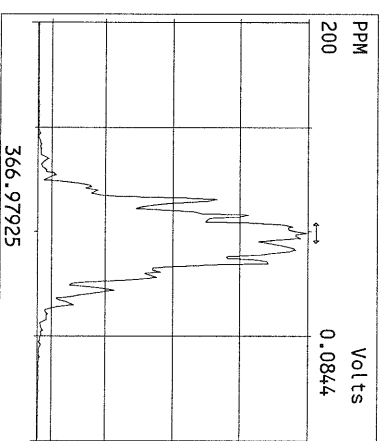
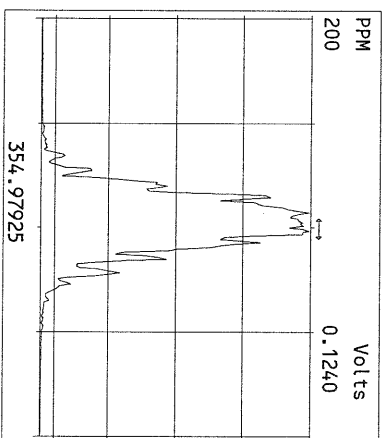
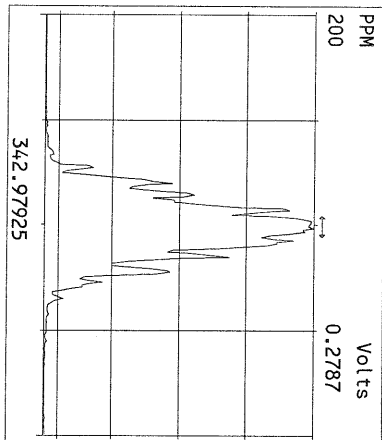
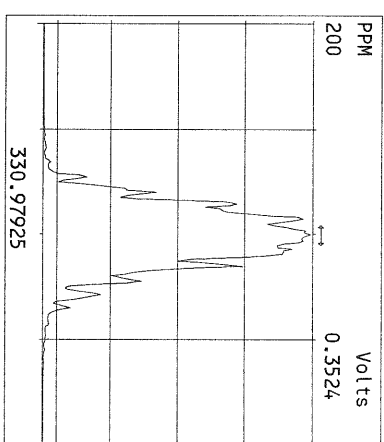
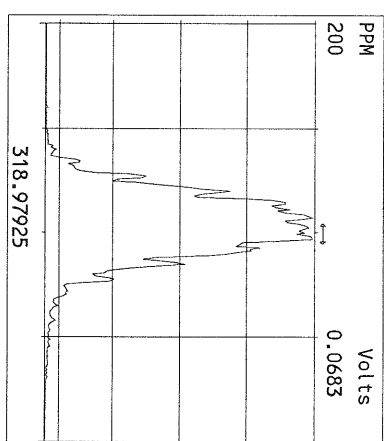
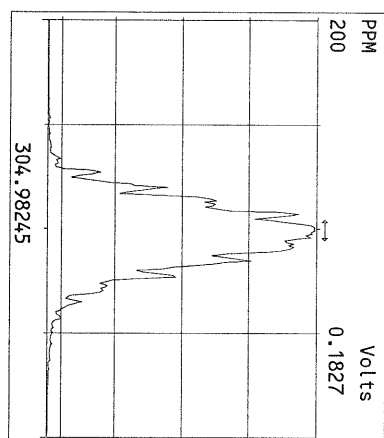
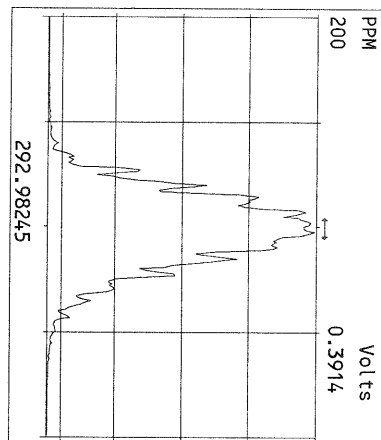


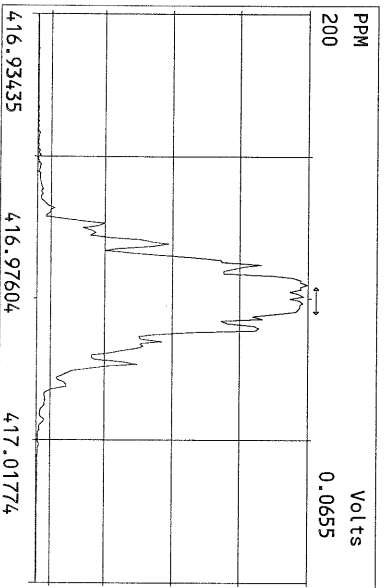
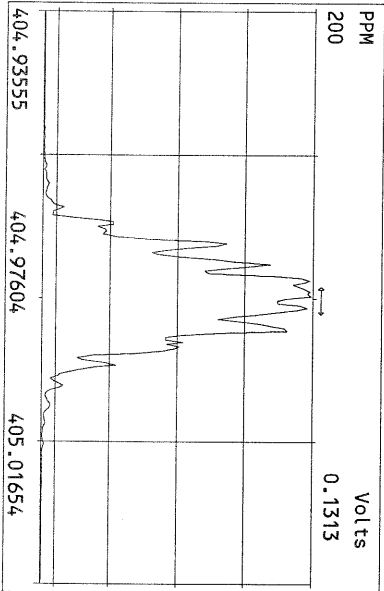
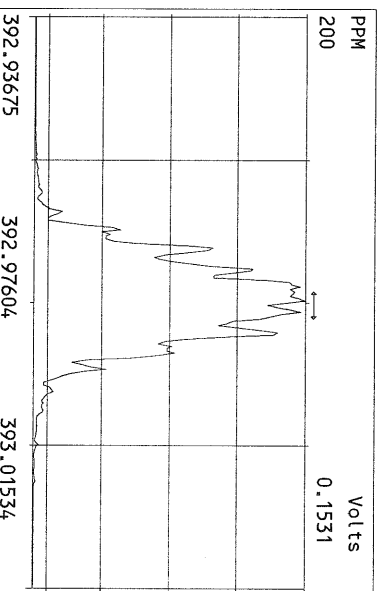
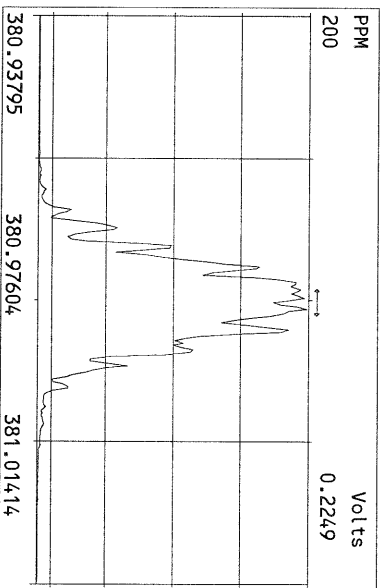
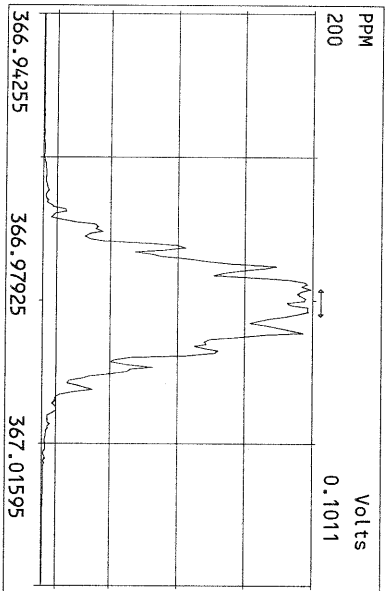
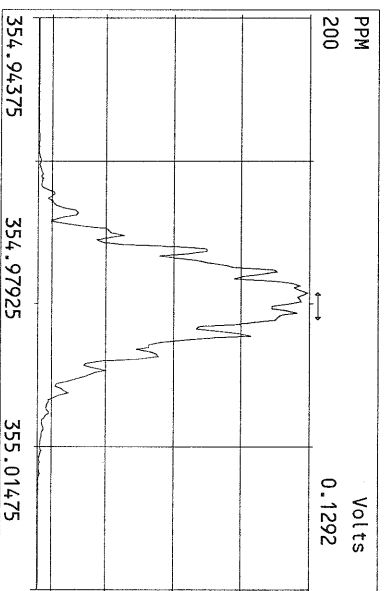
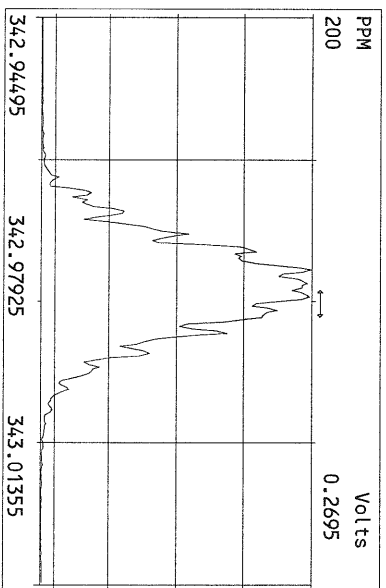
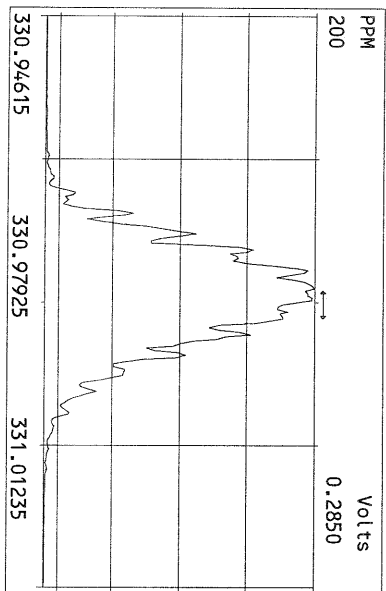
File:15DEC08N #1-347 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory

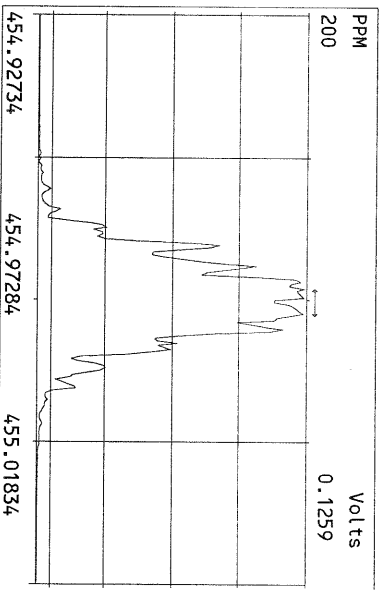
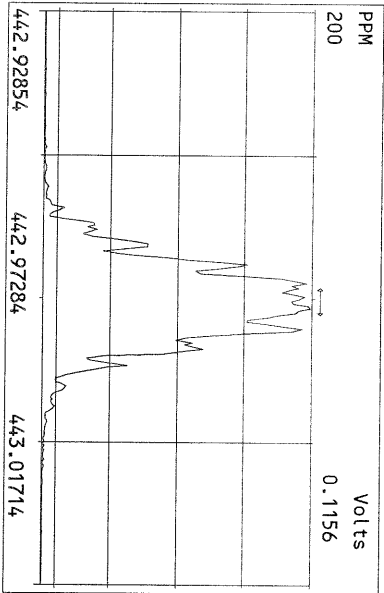
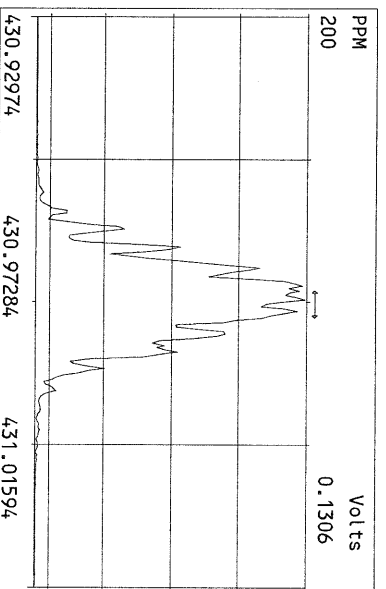
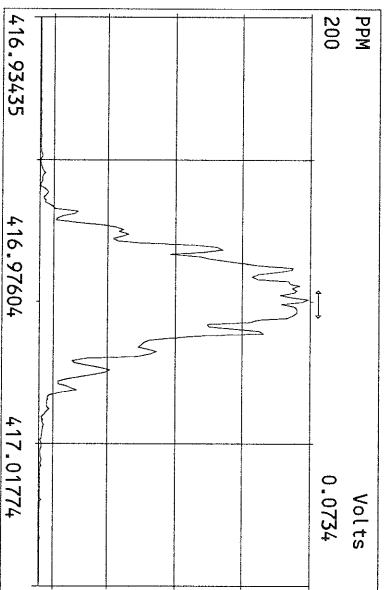
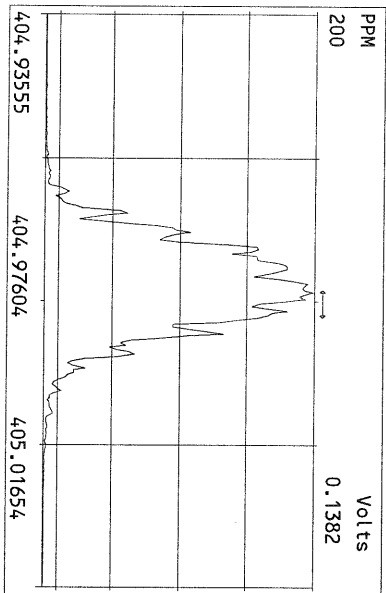
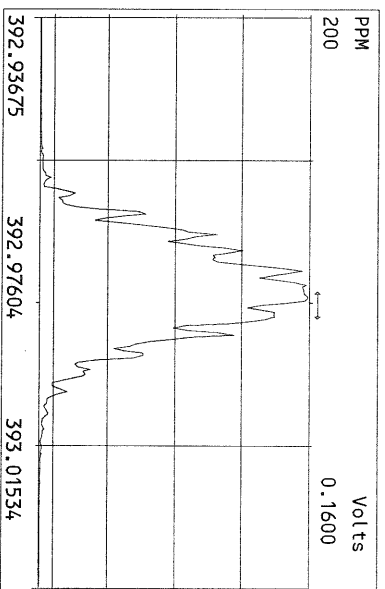
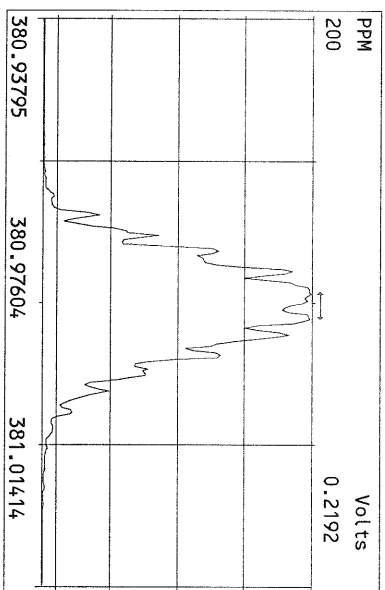
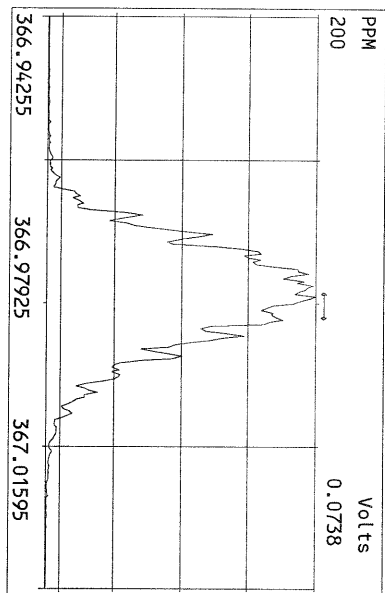


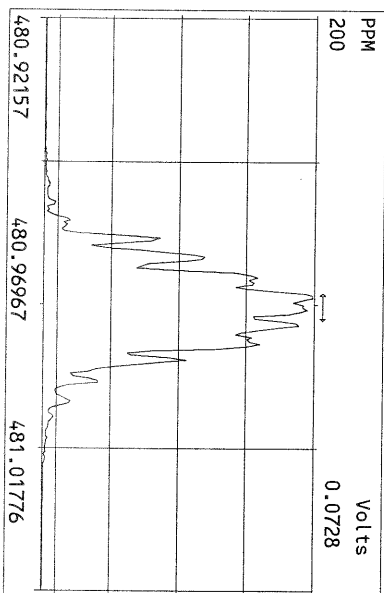
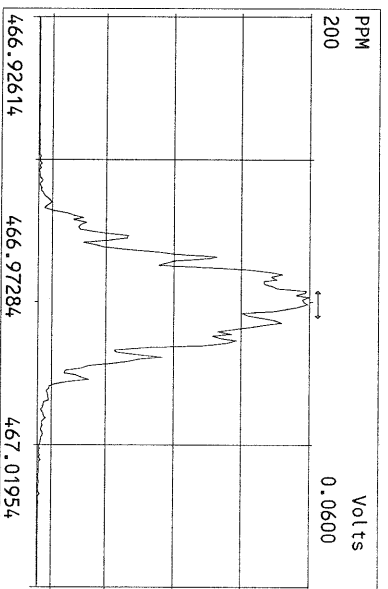
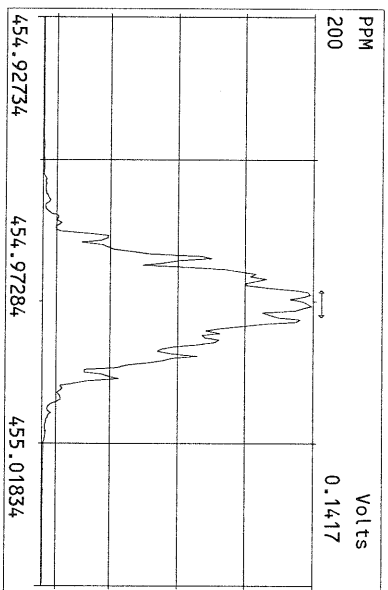
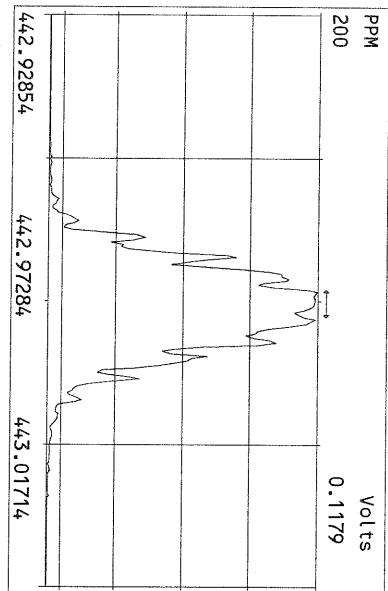
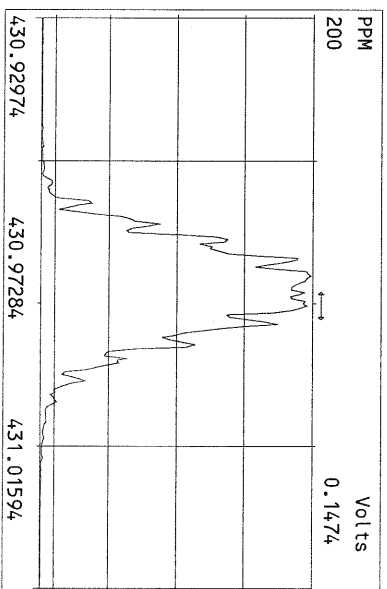
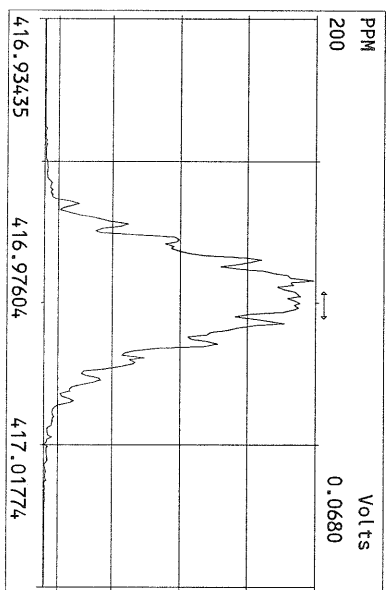
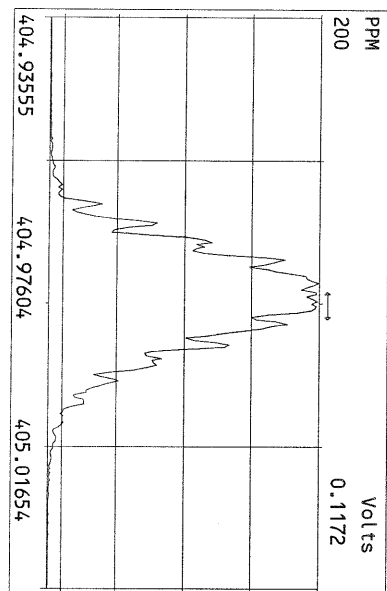
File:15DEC08N #1-347 Acq:15-DEC-2008 16:30:27 GC EI + Voltage SIR Autospec-Ultima
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N1 File Text:Frontier Analytical Laboratory

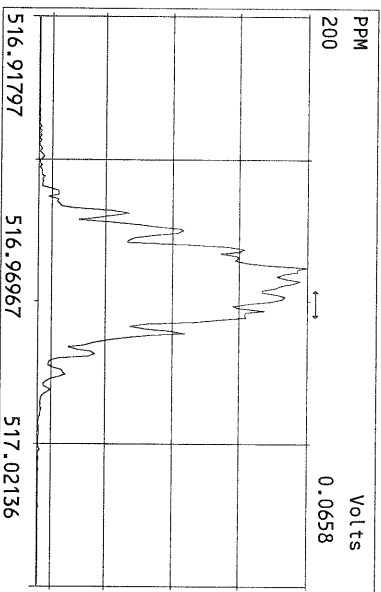
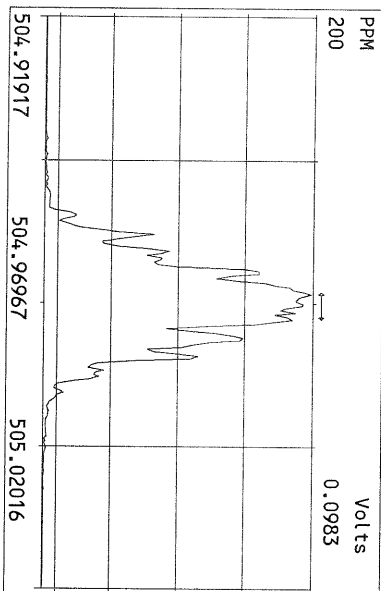
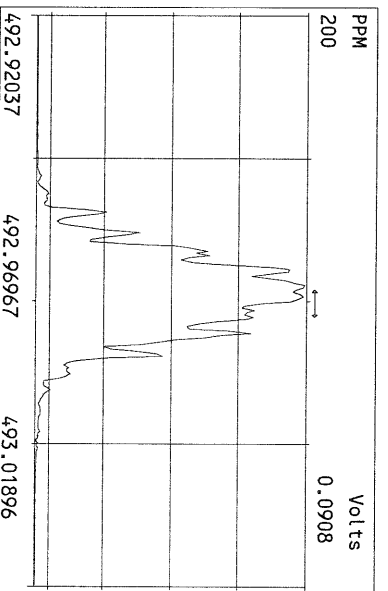
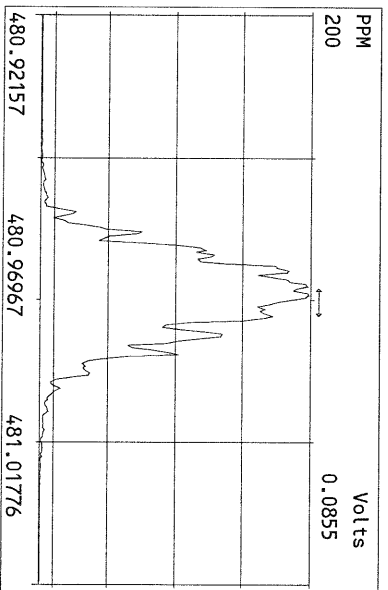
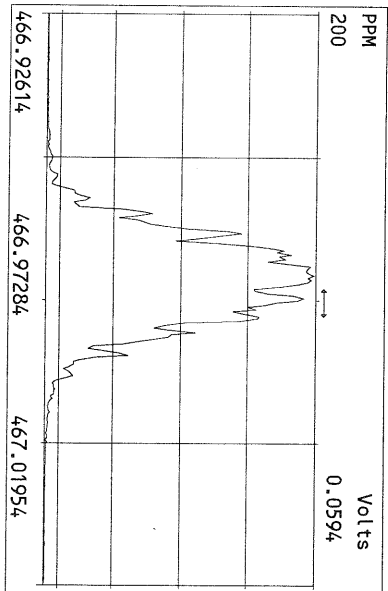
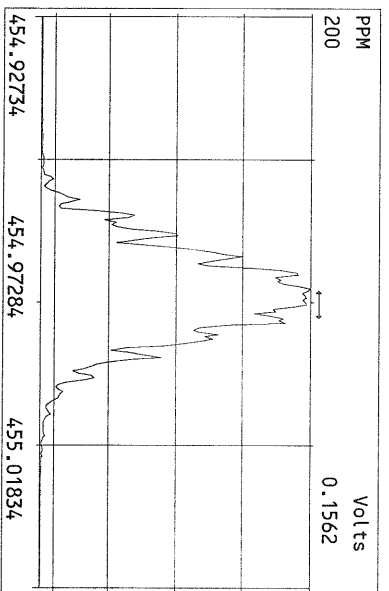
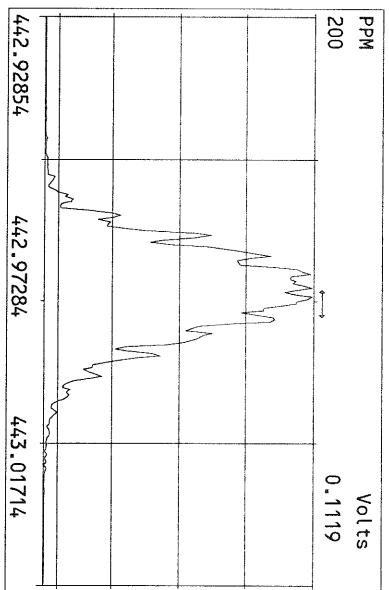
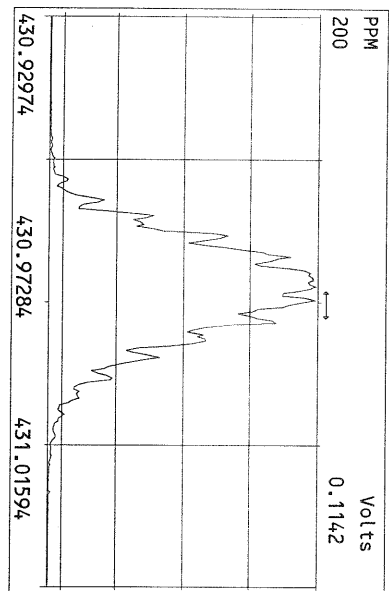












USEPA - ITD

AIR FORM 4A
PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 15DEC08N Sam:13

Analysis Date: 16-DEC-08 03:33:41

	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	0.77	0.65-0.89	y	4.07	3.75 - 6.25 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.32-1.78	y	21.7	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	24.0	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	23.1	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.29	1.05-1.43	y	23.4	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	25.3	18.7 - 31.2 ✓
OCDD	M+2/M+4	0.90	0.76-1.02	y	45.7	37.5 - 62.5 ✓
2,3,7,8-TCDF	M/M+2	0.70	0.65-0.89	y	4.81	3.75 - 6.25 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	22.8	18.7 - 31.2 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	22.6	18.7 - 31.2 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	21.7	18.7 - 31.2 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	21.2	18.7 - 31.2 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	21.1	18.7 - 31.2 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.26	1.05-1.43	y	21.1	18.7 - 31.2 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	0.88-1.20	y	22.9	18.7 - 31.2 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.03	0.88-1.20	y	23.1	18.7 - 31.2 ✓
OCDF	M+2/M+4	0.91	0.76-1.02	y	45.0	35.0 - 65.0 ✓

Analyst: 

Date: 12/16/08

PCDD/PCDF CONTINUING CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 8/29/08

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 15DEC08N

Sam:13

Analysis Date: 16-DEC-08 03:33:41

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	102	75.0 - 125 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.75	1.32-1.78	y	90.7	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	101	75.0 - 125 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	0.88-1.20	y	101	70.0 - 130 ✓
13C-OCDD	M+2/M+4	0.91	0.76-1.02	y	217	140 - 260 ✓
13C-2,3,7,8-TCDF	M/M+2	0.83	0.65-0.89	y	99.2	70.0 - 130 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	94.3	70.0 - 130 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	107	70.0 - 130 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.37-0.51	y	100	70.0 - 130 ✓
13C-OCDF	M+2/M+4	0.93	0.76-1.02	y	220	140 - 260 ✓
CLEANUP SURROGATE						
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.54	0.43-0.59	y	107	75.0 - 125 ✓
PRE-SPIKE SURROGATE						
37Cl-2,3,7,8-TCDD					94.5	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	103	75.0 - 125 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	104	75.0 - 125 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	105	75.0 - 125 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	98.4	75.0 - 125 ✓

Analyst: Date: 12/16/08

Lab Name: Frontier Analytical Laboratory	Episode No.:
Contract No.:	SAS No.:
Instrument ID: FAL3	Initial Calibration Date: 8/29/08
RT Window Data Filename: 15DEC08N Sam:13	Analysis Date: 16-DEC-08 Time: 03:33:41
DB-5 IS Data Filename: 15DEC08N Sam:13	Analysis Date: 16-DEC-08 Time: 03:33:41
DB-225 IS Date Filename:	Analysis Date: Time:

ABSOLUTE		ABSOLUTE	
ISOMERS	RT	ISOMERS	RT
1,3,6,8-TCDD (F)	24:22 ✓	1,3,6,8-TCDF (F)	23:01 ✓
1,2,8,9-TCDD (L)	28:19 ✓	1,2,8,9-TCDF (L)	28:32 ✓
1,2,4,7,9-PeCDD (F)	30:13 ✓	1,3,4,6,8-PeCDF (F)	28:23 ✓
1,2,3,8,9-PeCDD (L)	33:47 ✓	1,2,3,8,9-PeCDF (L)	34:12 ✓
1,2,4,6,7,9-HxCDD (F)	36:06 ✓	1,2,3,4,6,8-HxCDF (F)	35:14 ✓
1,2,3,7,8,9-HxCDD (L)	39:11 ✓	1,2,3,7,8,9-HxCDF (L)	39:45 ✓
1,2,3,4,6,7,9-HpCDD (F)	42:47 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:16 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:10 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:05 ✓

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: 12/16/03

FAL ID: ST121508N2 Filename: 15DEC08N Sam:13 Acquired: 16-DEC-08 03:33:41 ICal: AIRFAL3-8-29-08
 Client ID: AIR CS3 (061228I) ConCal: ST121508N1 EndCal: ST121508N2
 Results: GC Column: DB5 Amount: 1.000

NATO 1989 Tox: 44.2
 WHO 1998 Tox: 55.0

	Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	
	2,3,7,8-TCDD	3.64e+06	0.77 y	27:23	0.93	4.07		2.50	-	*	
	1,2,3,7,8-PeCDD	1.60e+07	1.58 y	33:12	1.48	21.7		2.50	-	*	
	1,2,3,4,7,8-HxCDD	1.24e+07	1.31 y	38:34	1.32	24.0		2.50	-	*	
	1,2,3,6,7,8-HxCDD	1.13e+07	1.31 y	38:44	1.25	23.1		2.50	-	*	
	1,2,3,7,8,9-HxCDD	1.22e+07	1.29 y	39:11	1.32	23.4		2.50	-	*	
	1,2,3,4,6,7,8-HpCDD	1.13e+07	1.06 y	44:10	1.16	25.3		2.50	-	*	
	OCDD	1.61e+07	0.90 y	49:44	1.24	45.7		2.50	-	*	
	2,3,7,8-TCDF	6.35e+06	0.70 y	26:37	1.00	4.81		2.50	-	*	
	1,2,3,7,8-PeCDF	2.08e+07	1.54 y	31:28	0.81	22.8		2.50	-	*	
	2,3,4,7,8-PeCDF	1.96e+07	1.56 y	32:47	0.76	22.6		2.50	-	*	
	1,2,3,4,7,8-HxCDF	1.54e+07	1.25 y	37:11	1.02	21.7		2.50	-	*	
	1,2,3,6,7,8-HxCDF	1.55e+07	1.25 y	37:22	1.05	21.2		2.50	-	*	
	2,3,4,6,7,8-HxCDF	1.38e+07	1.25 y	38:19	0.93	21.1		2.50	-	*	
	1,2,3,7,8,9-HxCDF	1.16e+07	1.26 y	39:45	0.79	21.1		2.50	-	*	
	1,2,3,4,6,7,8-HpCDF	1.28e+07	1.04 y	42:16	1.36	22.9		2.50	-	*	
	1,2,3,4,7,8,9-HpCDF	9.91e+06	1.03 y	45:05	1.04	23.1		2.50	-	*	
	OCDF	1.69e+07	0.91 y	50:06	0.46	45.0		2.50	-	*	
											Rec
	13C-2,3,7,8-TCDD	9.64e+07	0.77 y	27:21	1.44	102					102
	13C-1,2,3,7,8-PeCDD	4.99e+07	1.75 y	33:11	0.84	90.7					90.7
	13C-1,2,3,6,7,8-HxCDD	3.94e+07	1.28 y	38:43	0.97	101					101
	13C-1,2,3,4,6,7,8-HpCDD	3.86e+07	1.08 y	44:09	0.94	101					101
	13C-OCDD	5.67e+07	0.91 y	49:42	0.65	217					108
	13C-2,3,7,8-TCDF	1.32e+08	0.83 y	26:36	1.36	99.2					99.2
	13C-1,2,3,7,8-PeCDF	1.14e+08	1.64 y	31:27	1.23	94.3					94.3
	13C-1,2,3,6,7,8-HxCDF	6.98e+07	0.54 y	37:21	1.61	107					107
	13C-1,2,3,4,6,7,8-HpCDF	4.12e+07	0.43 y	42:14	1.02	100					100
	13C-OCDF	1.63e+08	0.93 y	50:05	1.83	220					110
	13C-1,2,3,7,8,9-HxCDF	8.60e+07	0.54 y	39:43	1.99	107					107
	37Cl-2,3,7,8-TCDD	3.05e+07		27:22	0.33	94.5					94.5
	13C-1,2,3,4,7,8-HxCDD	5.36e+07	1.28 y	38:33	1.32	103					103
	13C-2,3,4,7,8-PeCDF	9.58e+07	1.66 y	32:46	0.81	104					104
	13C-1,2,3,4,7,8-HxCDF	1.02e+08	0.54 y	37:09	1.38	105					105
	13C-1,2,3,4,7,8,9-HpCDF	3.30e+07	0.44 y	45:04	0.81	98.4					98.4
	13C-1,2,3,4-TCDD	6.53e+07	0.77 y	26:46	-	186					
	13C-1,2,3,4-TCDF	9.79e+07	0.82 y	25:31	-	172					
	13C-1,2,3,7,8,9-HxCDD	4.04e+07	1.24 y	39:09	-	168					
							Fac	Noise	DL	#Hom	
	Total Tetra-Dioxins	1.58e+07		23:50	0.93	17.6	2.50	-	*	22	
	Total Penta-Dioxins	3.98e+07		30:13	1.48	54.0	2.50	-	*	7	
	Total Hexa-Dioxins	5.12e+07		36:06	1.29	100	2.50	-	*	10	
	Total Hepta-Dioxins	2.36e+07		42:47	1.16	52.6	2.50	-	*	7	
	Total Tetra-Furans	2.45e+07		23:01	1.00	18.5	2.50	-	*	21	
1st Fn.	Tot Penta-Furans	1.88e+07		28:23	0.78	21.1	2.50	-	*	1	PeCDF
	Total Penta-Furans	5.42e+07		30:08	0.78	60.9	2.50	-	*	8	82.0
	Total Hexa-Furans	7.32e+07		35:14	0.95	111	2.50	-	*	12	
	Total Hepta-Furans	2.29e+07		42:16	1.20	46.5	2.50	-	*	9	

Analyst: 

Date: 12/16/08

Frontier Analytical Laboratory - Acquisition Log

Run Name:15DEC08N

Instrument: FAL3

GC: DB5

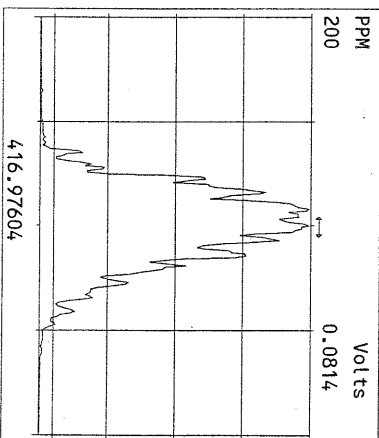
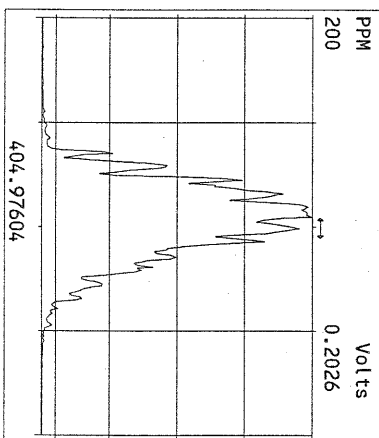
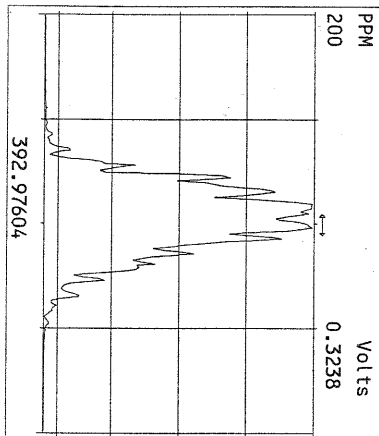
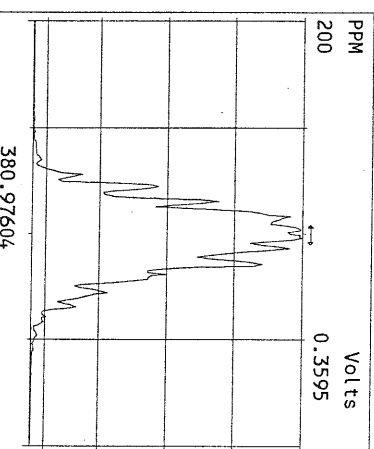
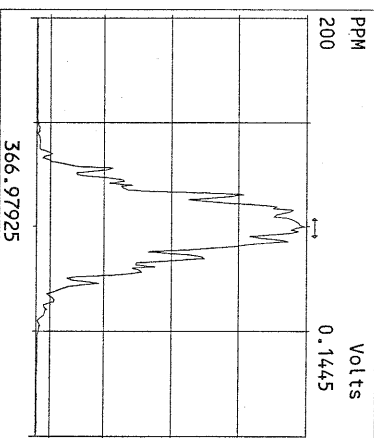
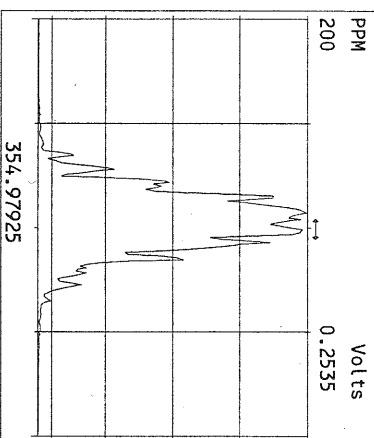
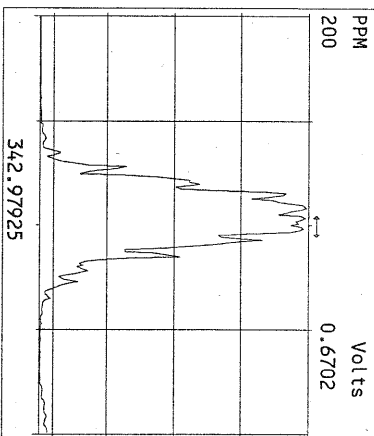
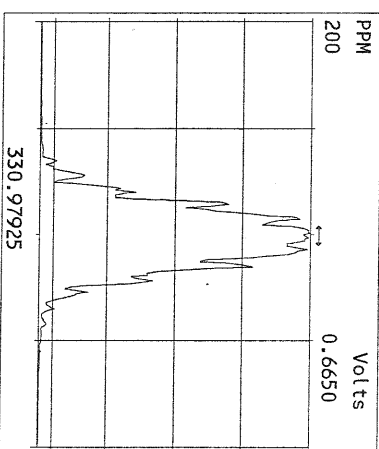
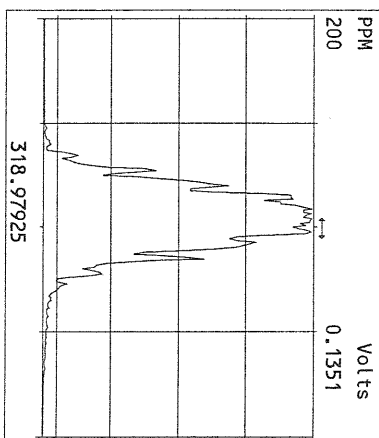
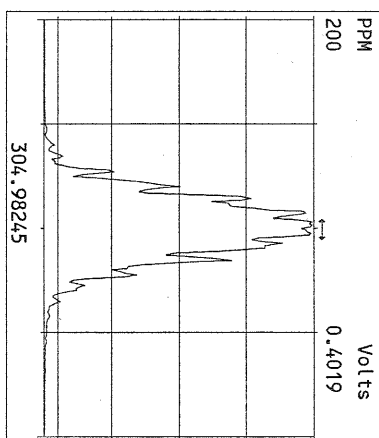
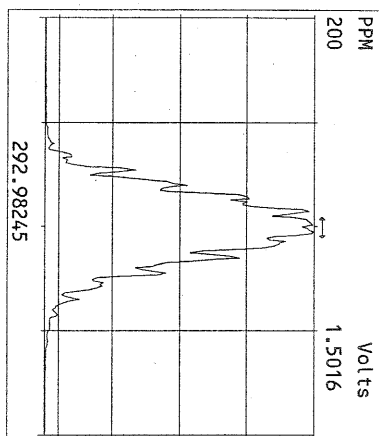
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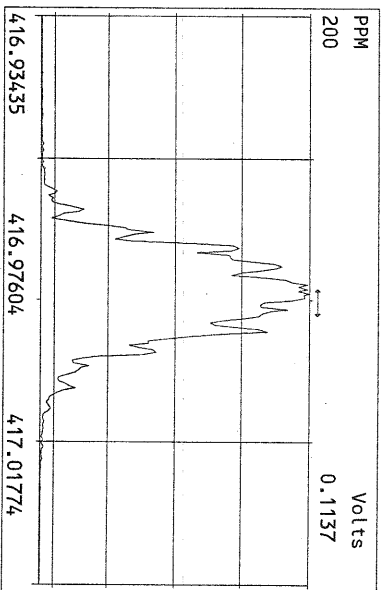
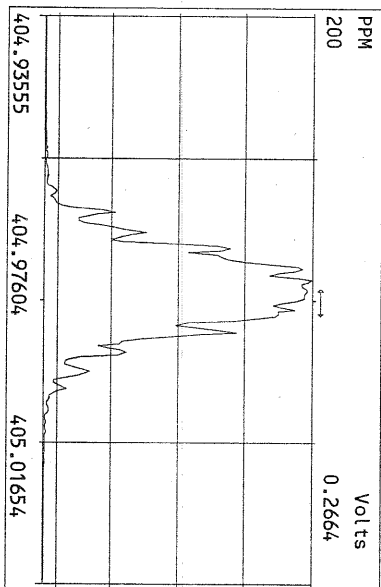
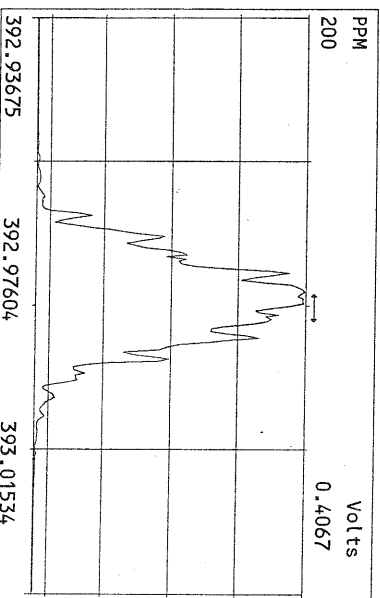
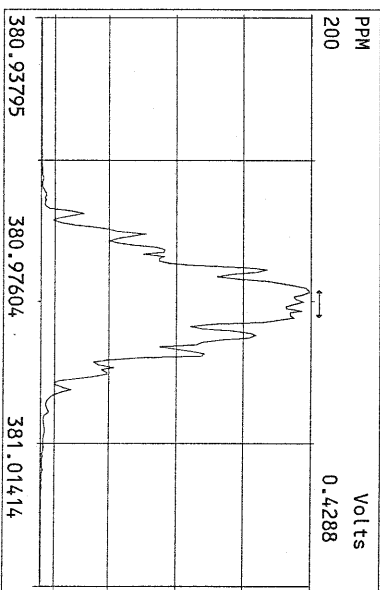
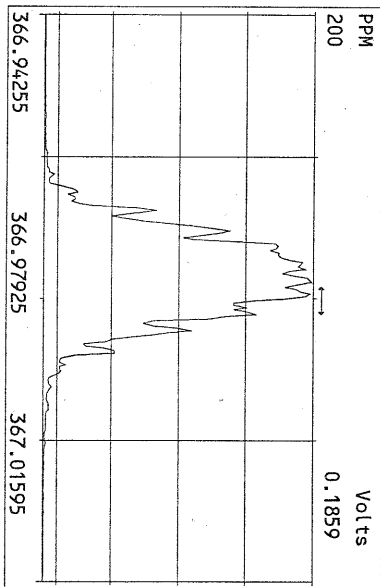
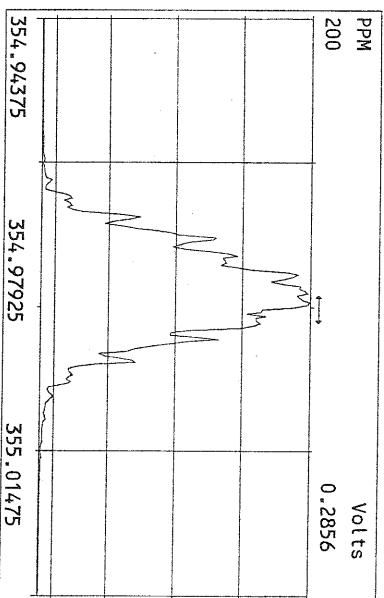
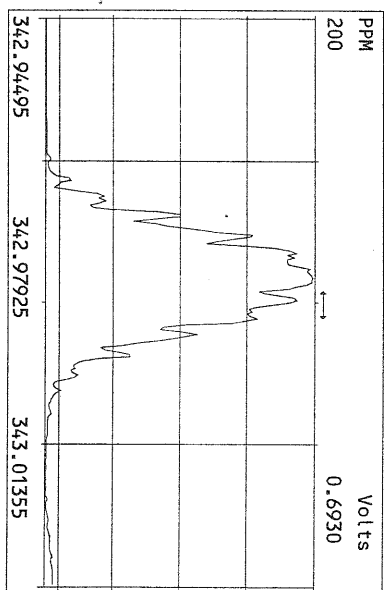
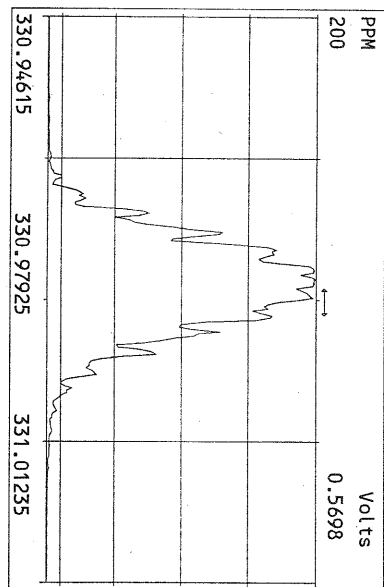
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15DEC08N 7	1594-001-0001-MB	Method Blank	15-DEC-08 22:01:52	ST121508N1	ST121508N2	TC
15DEC08N 8	QC121508N1	XAD QC	15-DEC-08 22:57:11	ST121508N1	ST121508N2	TC
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15DEC08N 12	SB121508N1	Solvent Blank	16-DEC-08 02:38:26	ST121508N1	ST121508N2	TC
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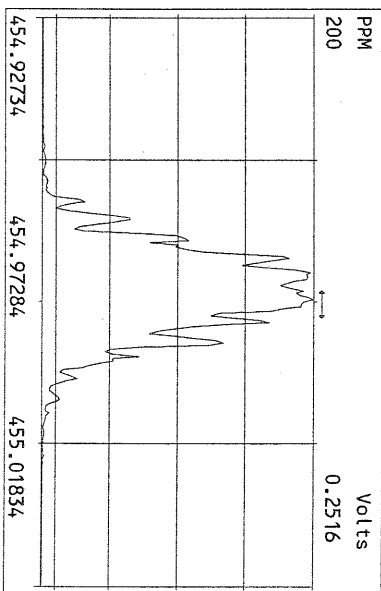
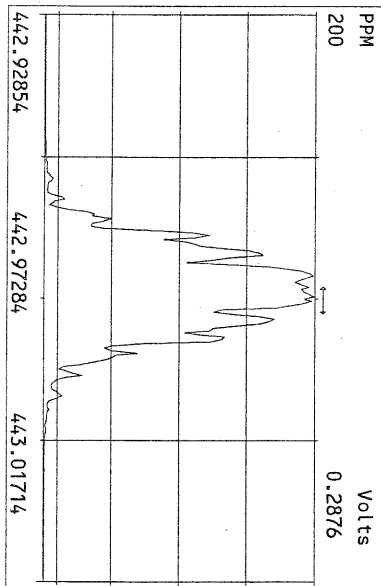
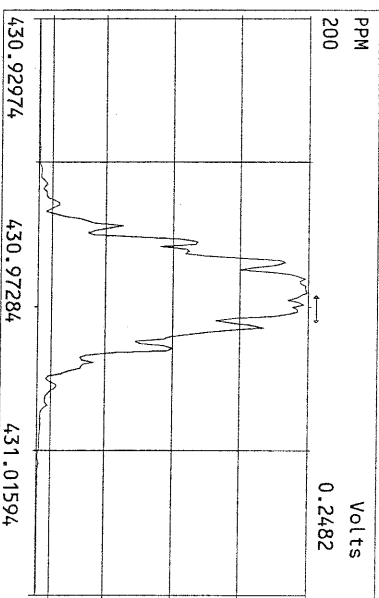
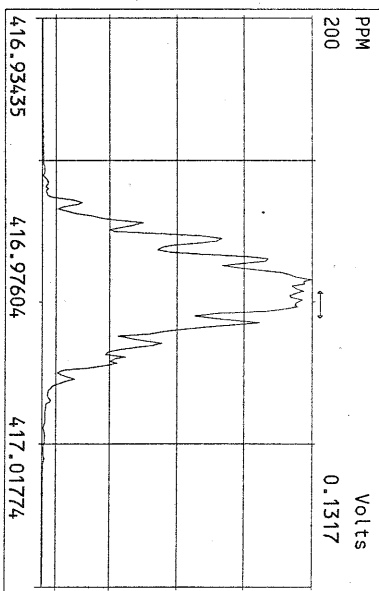
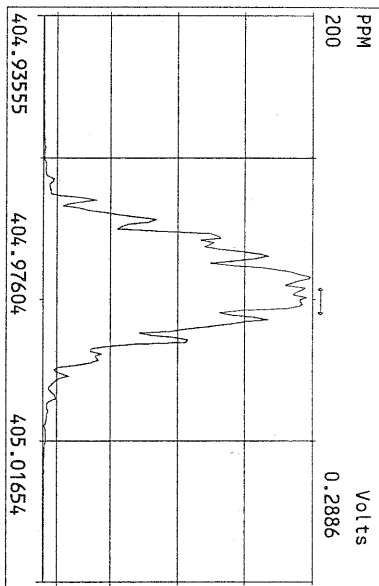
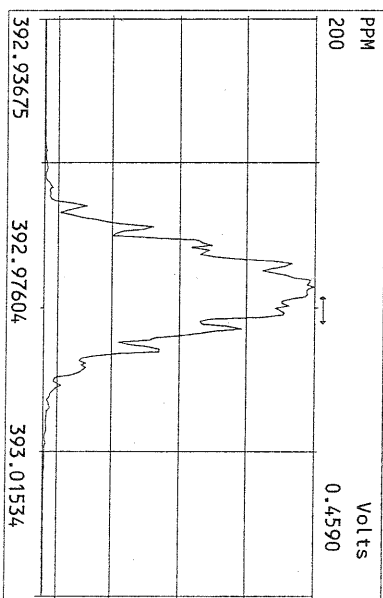
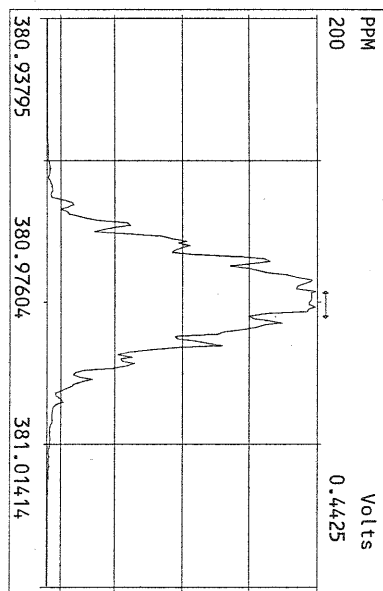
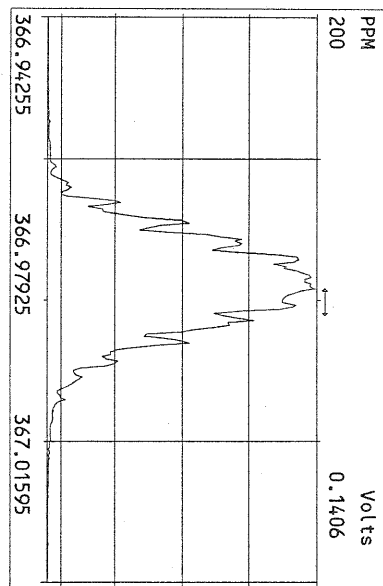
 12/16/08

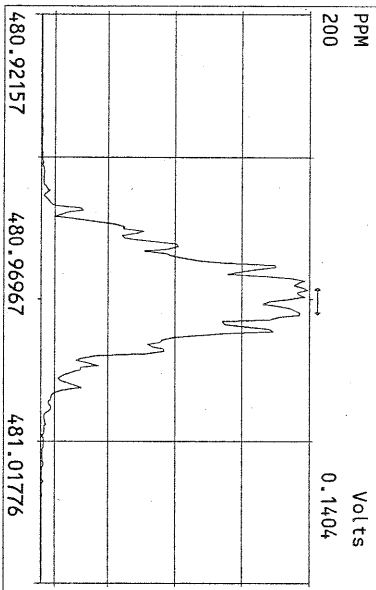
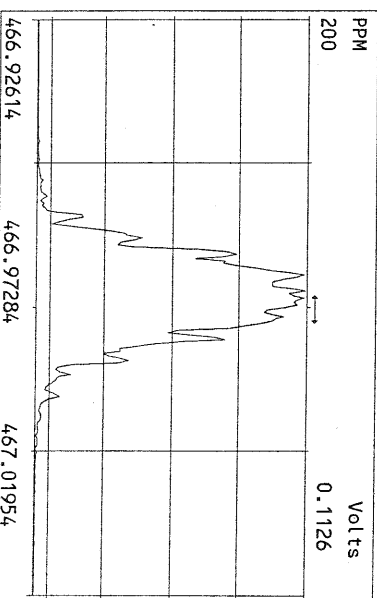
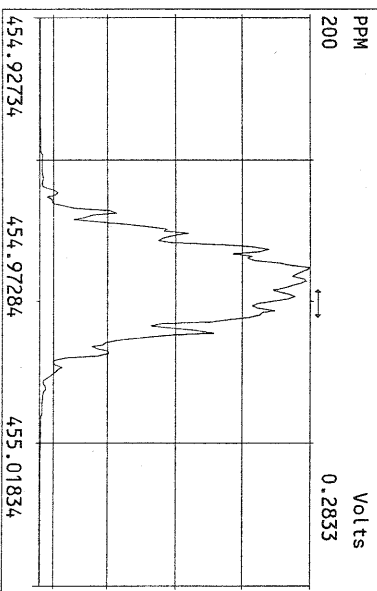
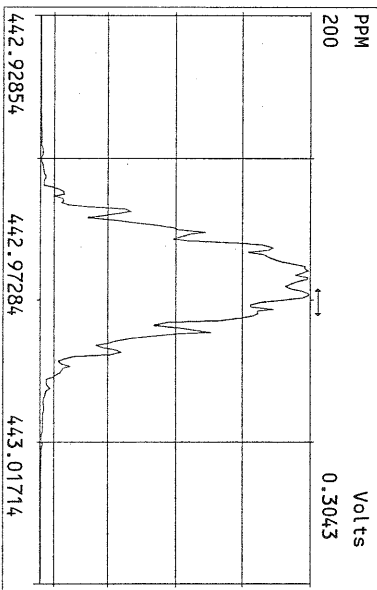
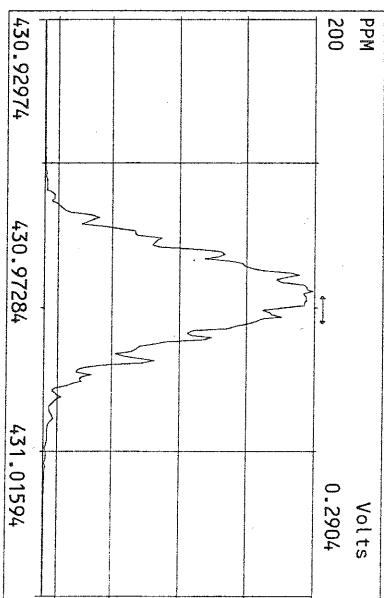
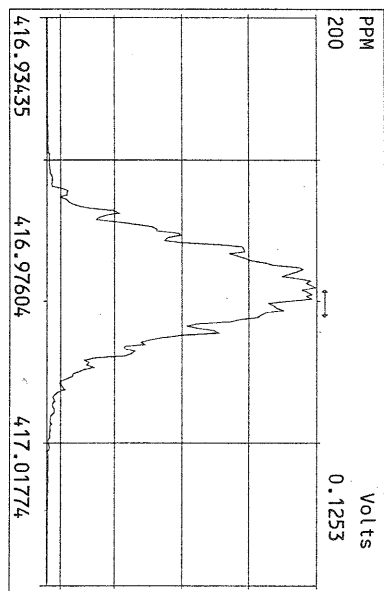
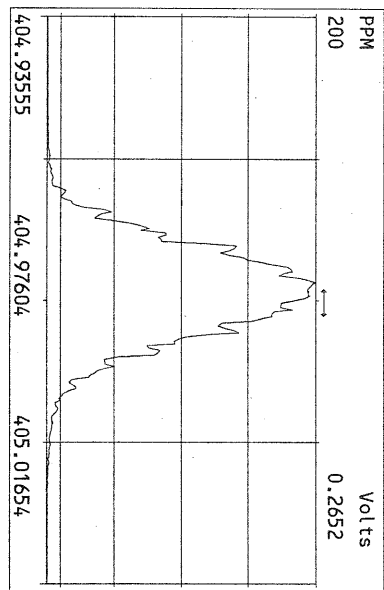
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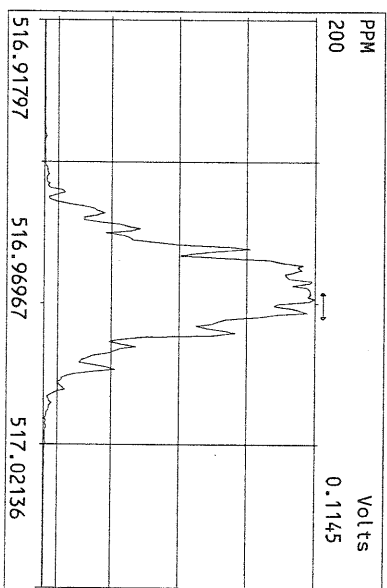
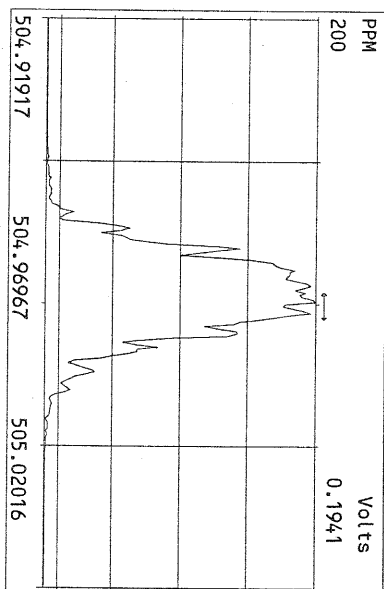
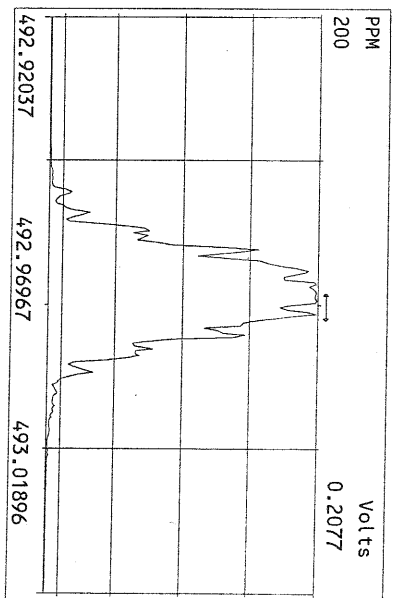
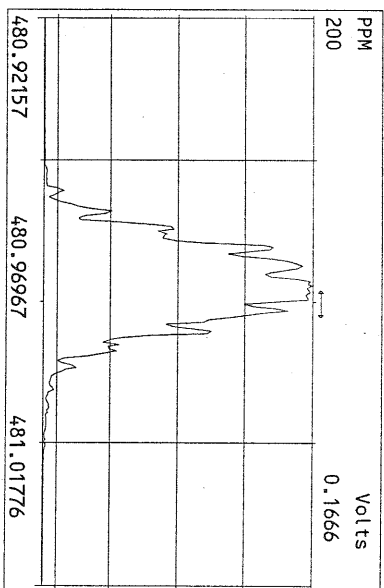
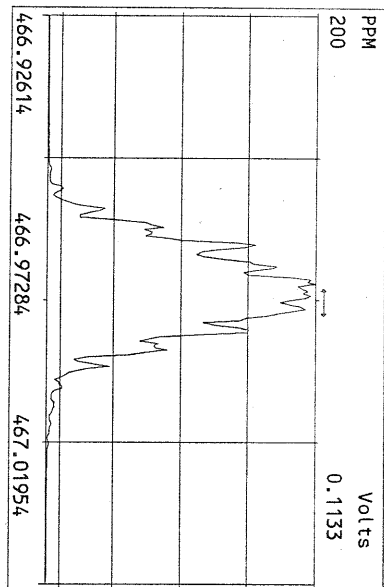
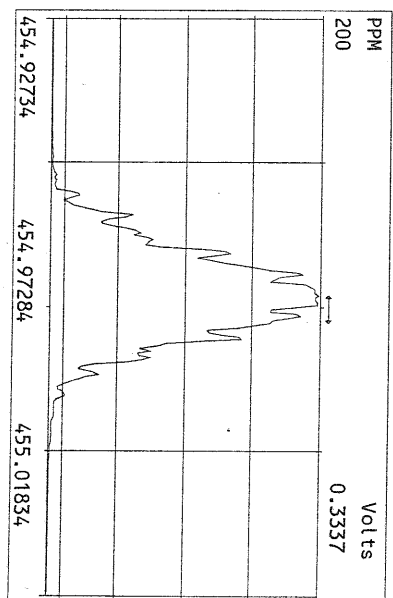
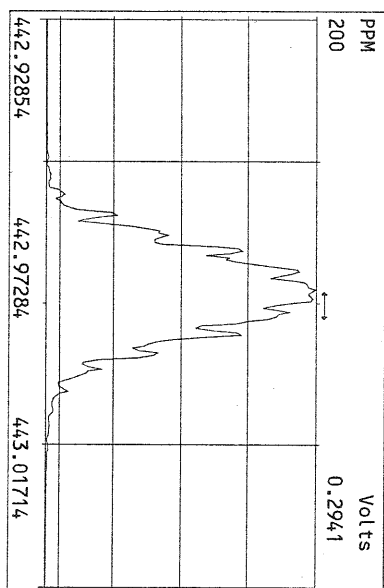
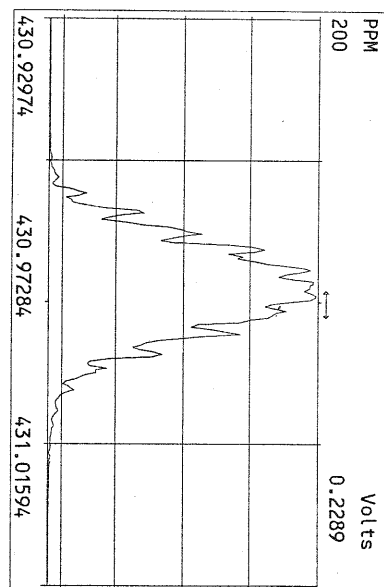
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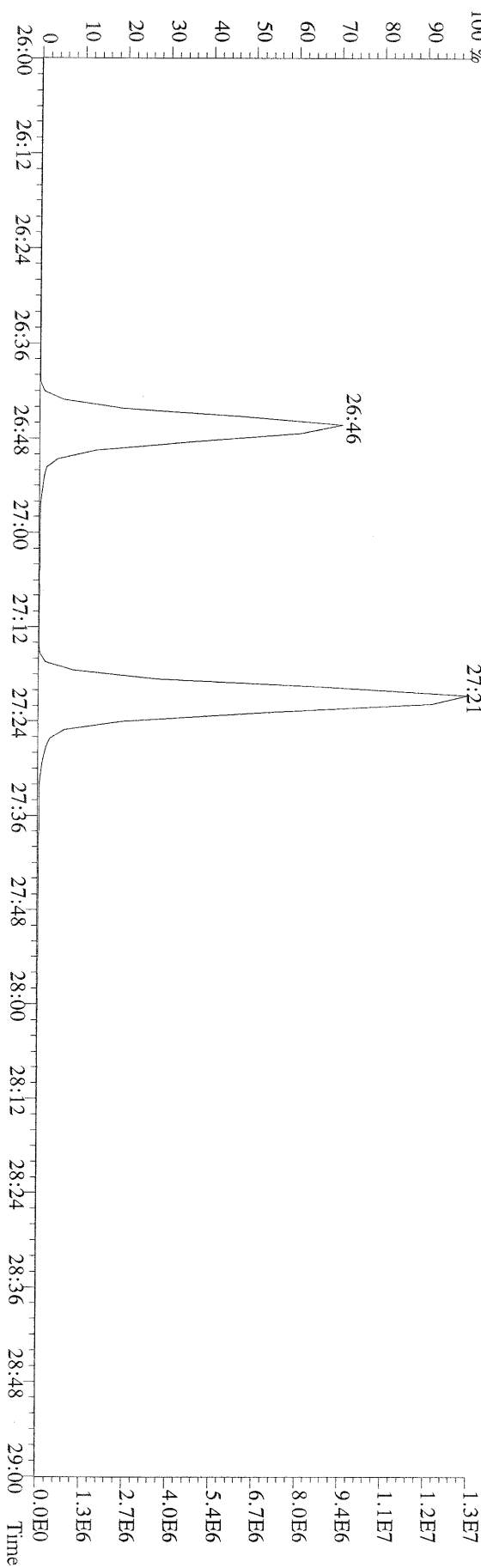
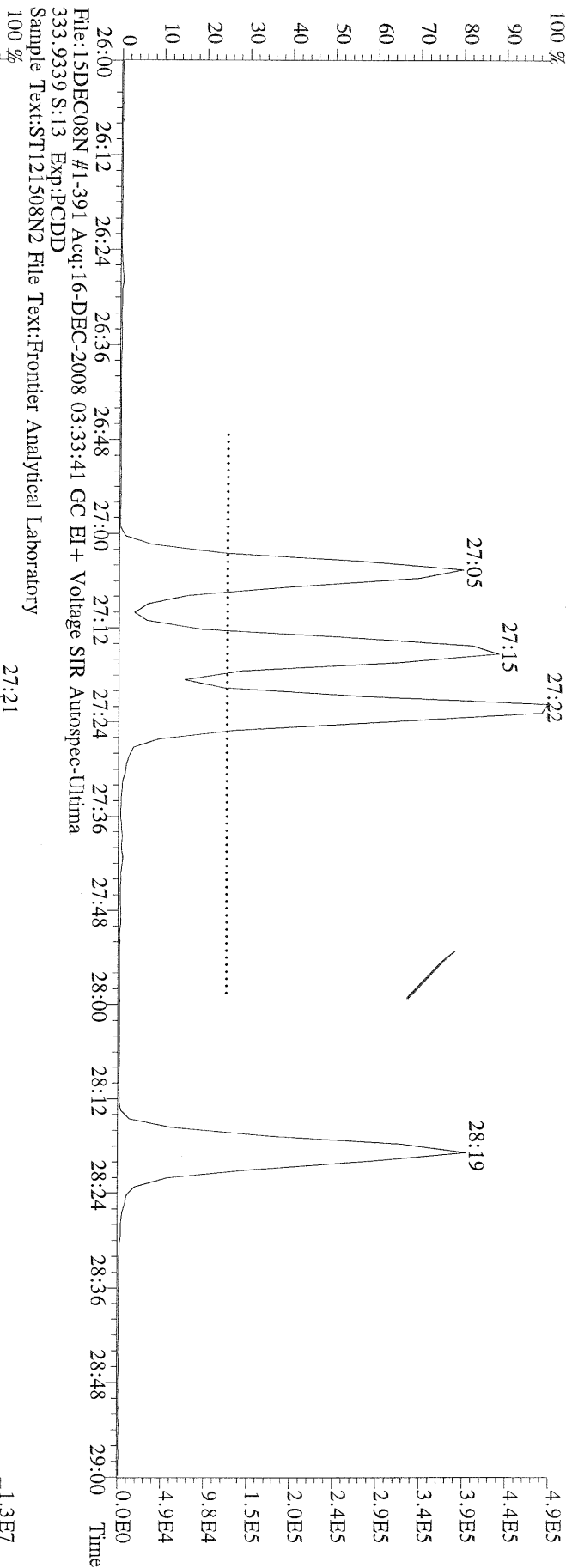




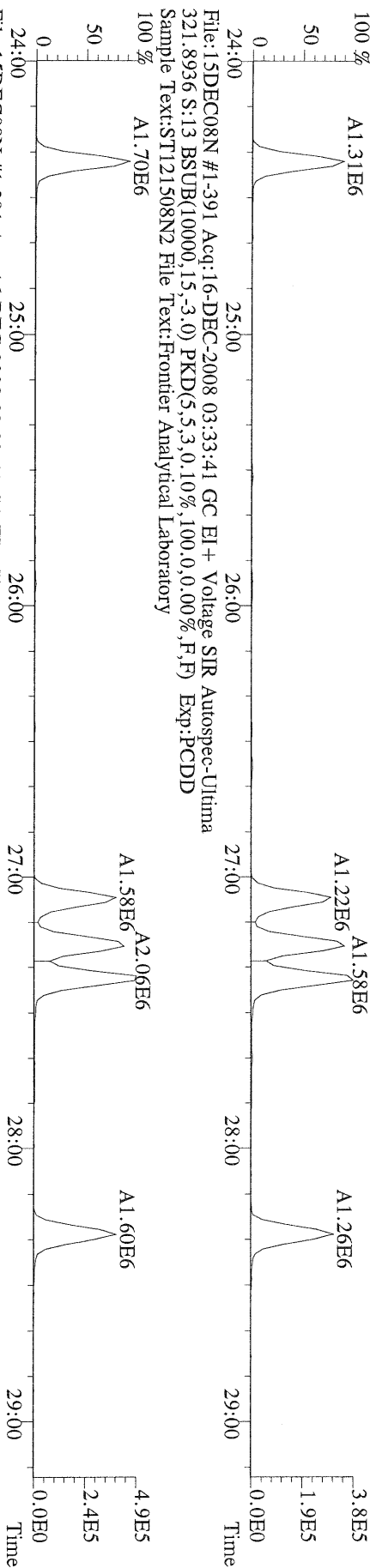




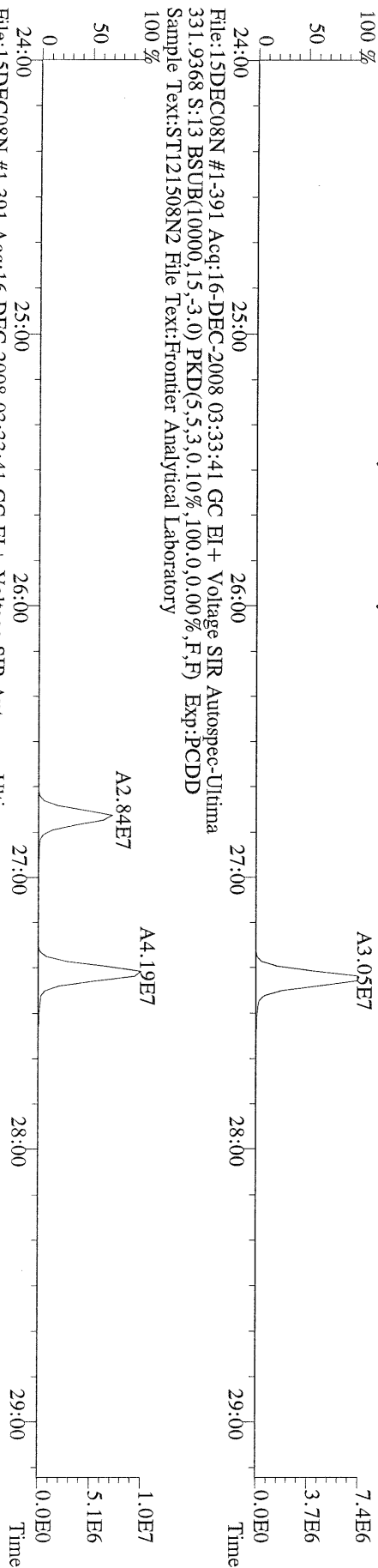
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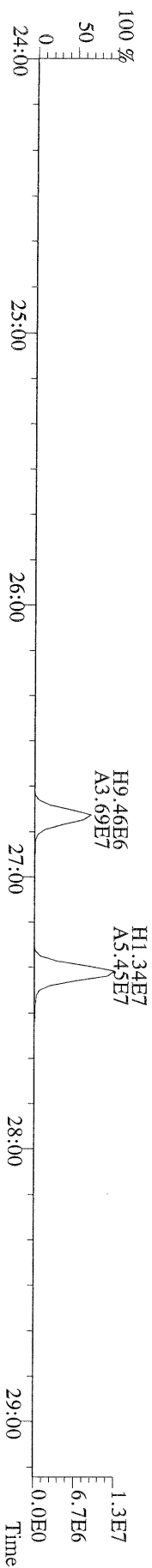
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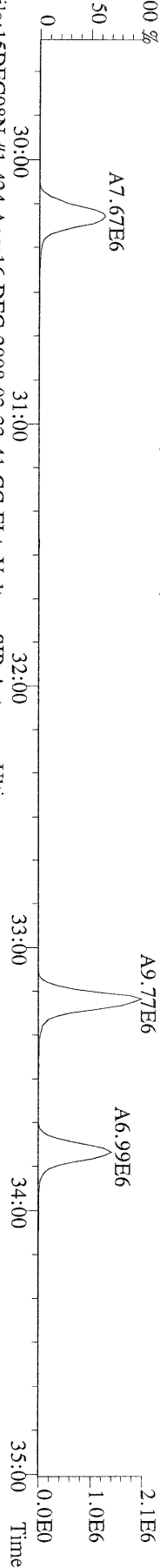
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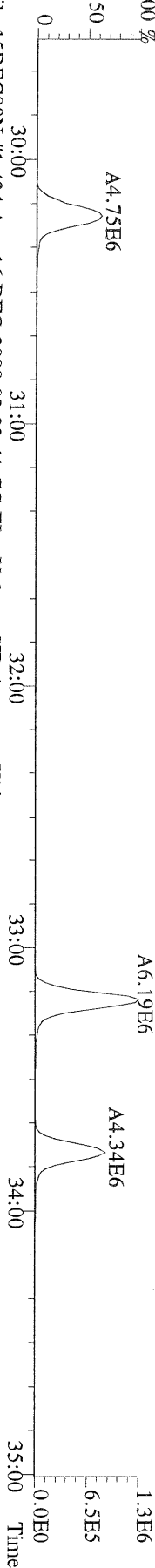
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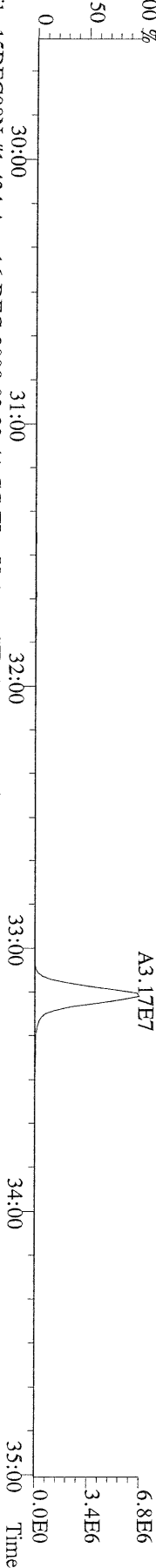
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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory
100 %



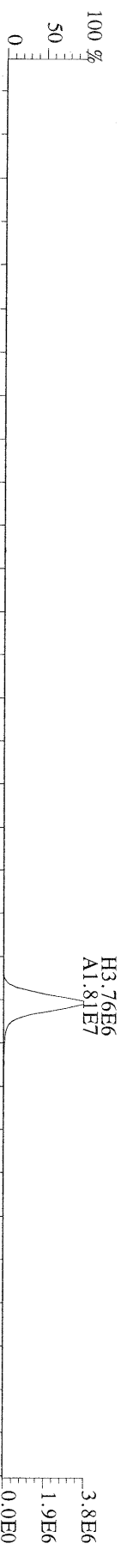
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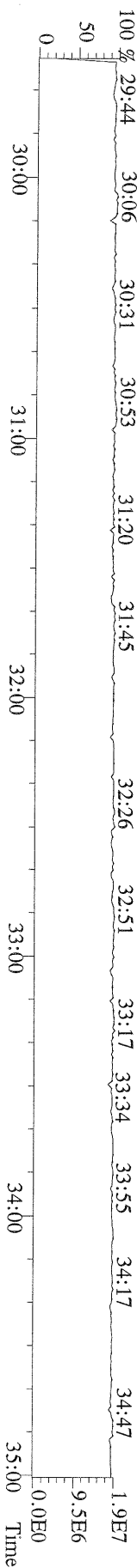
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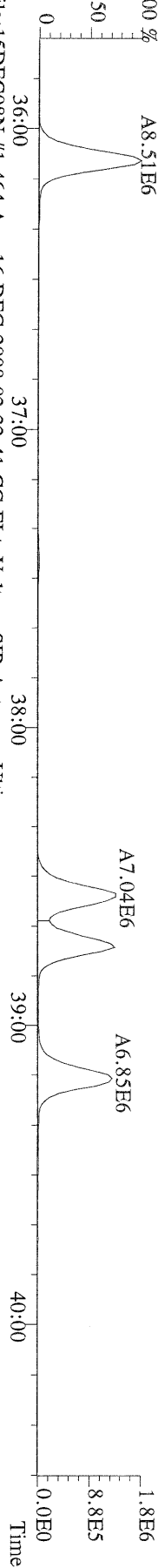
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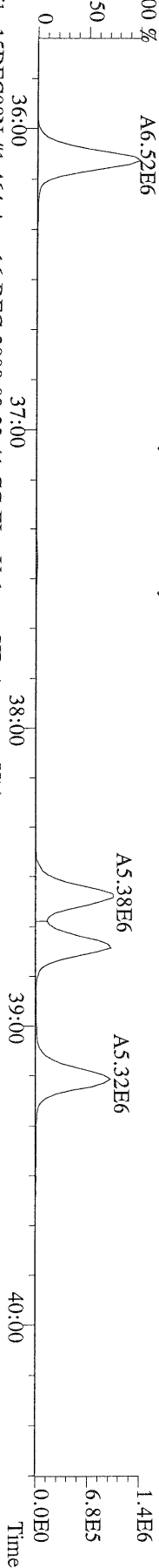
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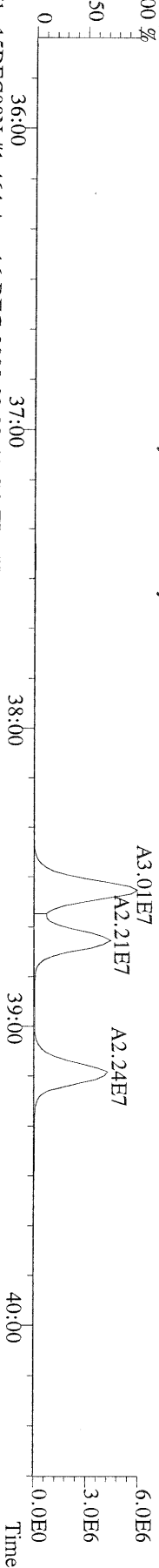
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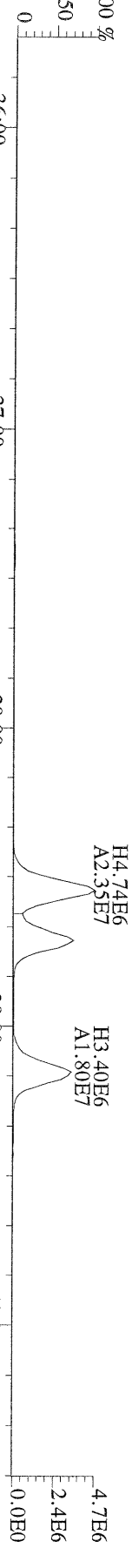
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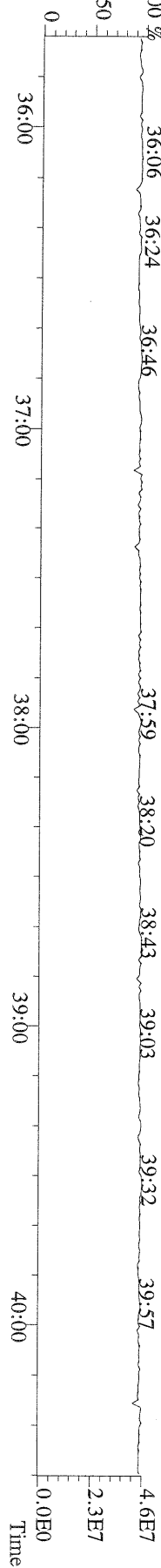
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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory
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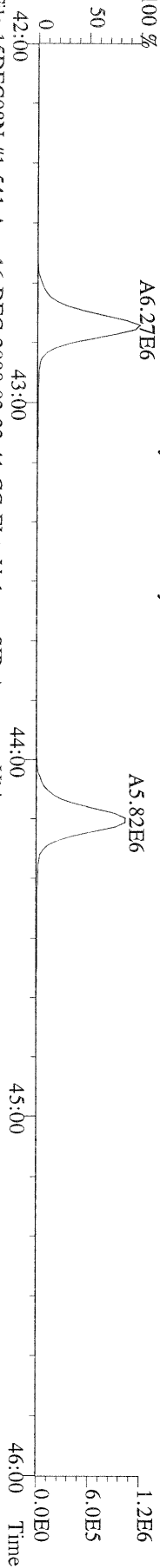
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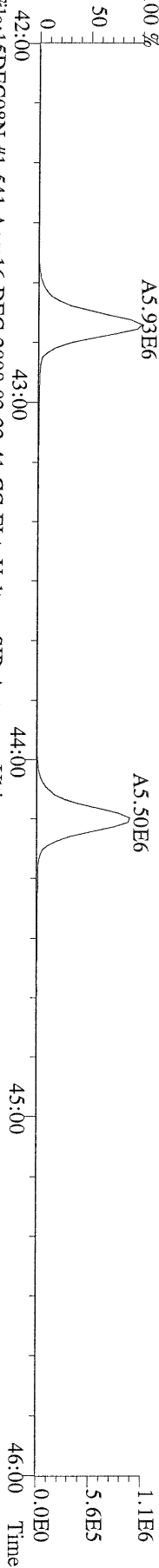
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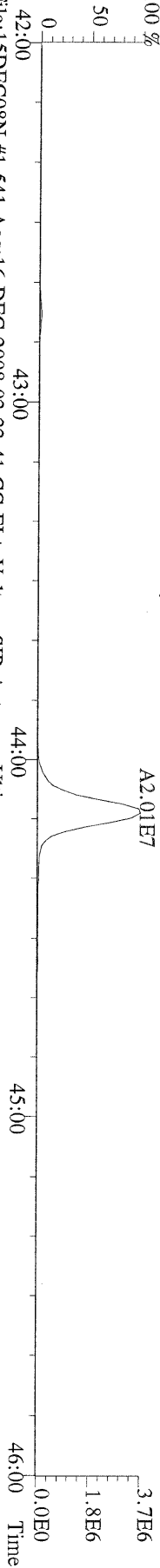
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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory



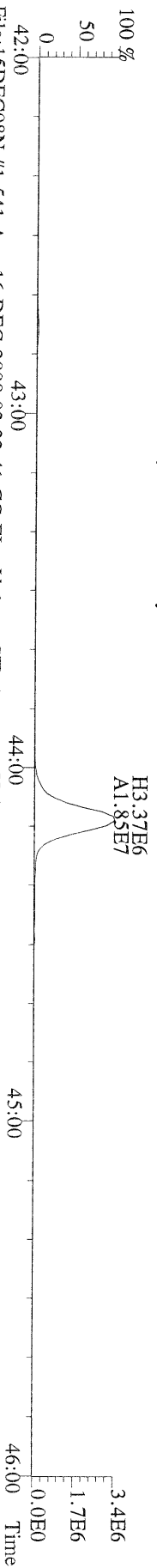
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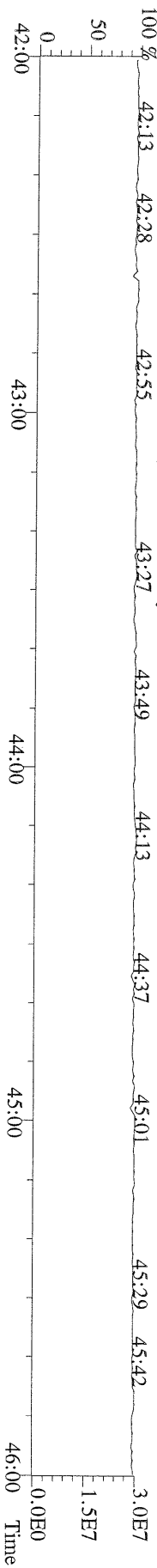
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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory



File:15DEC08N #1-541 Acq:16-DEC-2008 03:33:41 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:13 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory



File:15DEC08N #1-541 Acq:16-DEC-2008 03:33:41 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:13 F:4 Exp:PCDD
Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory



File:15DEC08N #1-347 Acq:16-DEC-2008 03:33:41 GC EI+ Voltage SIR Autospec-Ultima
457.7377 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:ST121508N2 File Text:Frontier Analytical Laboratory
100 % A7.61E6

File:15DEC08N #1-347 Acq:16-DEC-2008 03:33:41 GC EI+ Voltage SIR Autospec-Ultima
459.7348 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:ST121508N2 File Text:Frontier Analytical Laboratory
100 % A8.44E6

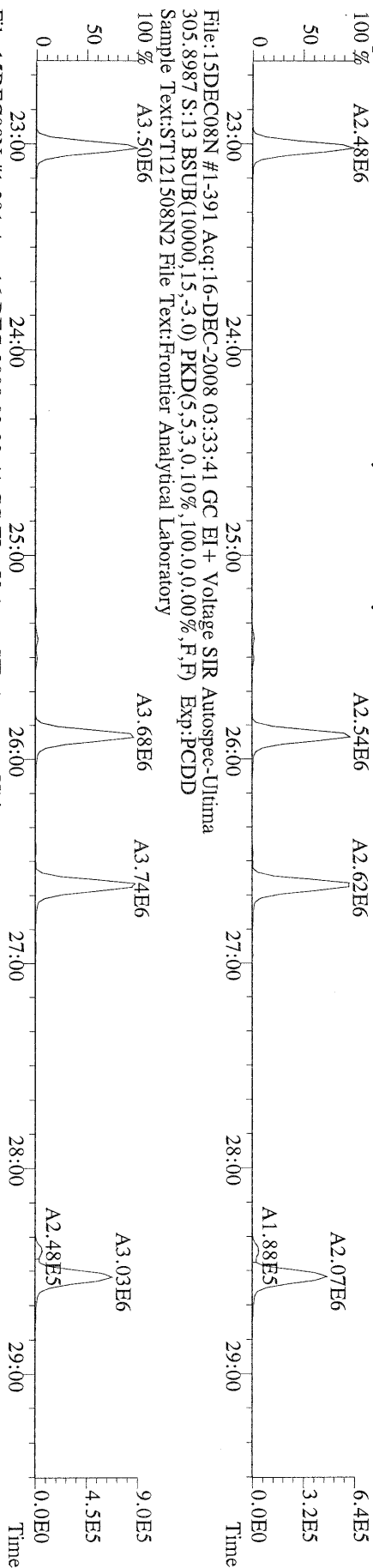
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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory
100 % A2.70E7

File:15DEC08N #1-347 Acq:16-DEC-2008 03:33:41 GC EI+ Voltage SIR Autospec-Ultima
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100 % H4.75E6
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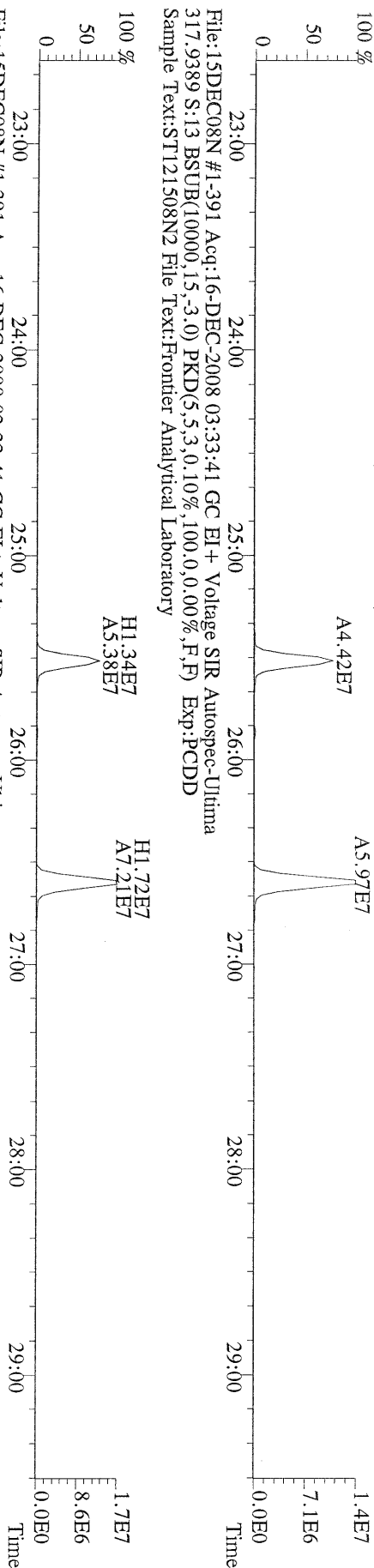
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454.9728 S:13 F:5 Exp:PCDD
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100 % 48.23 48.41 48.56 49.16 49.43

49:00 50:00 51:00 52:00
Time

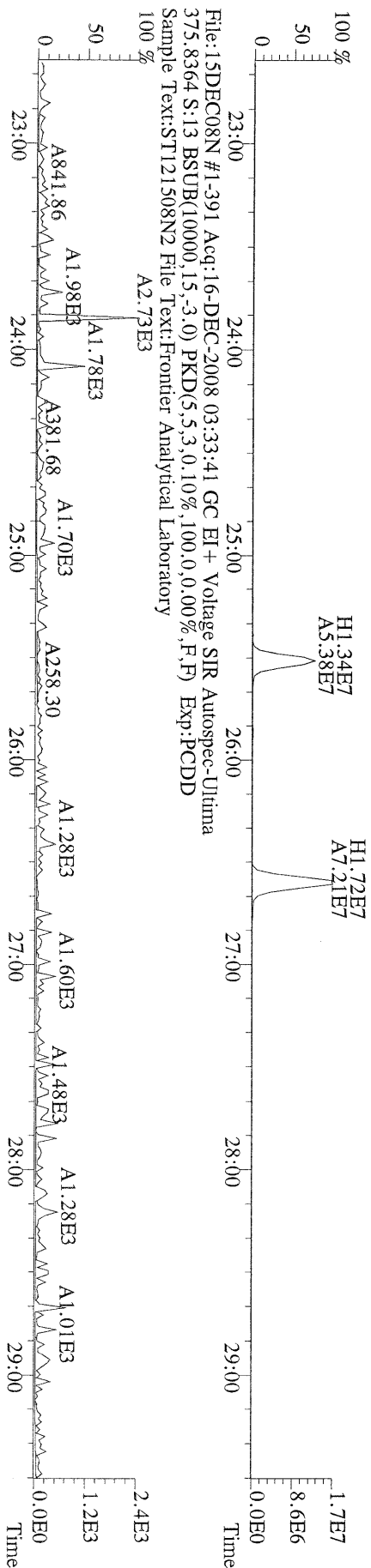
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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory



File:15DEC08N #1-391 Acq:16-DEC-2008 03:33:41 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory

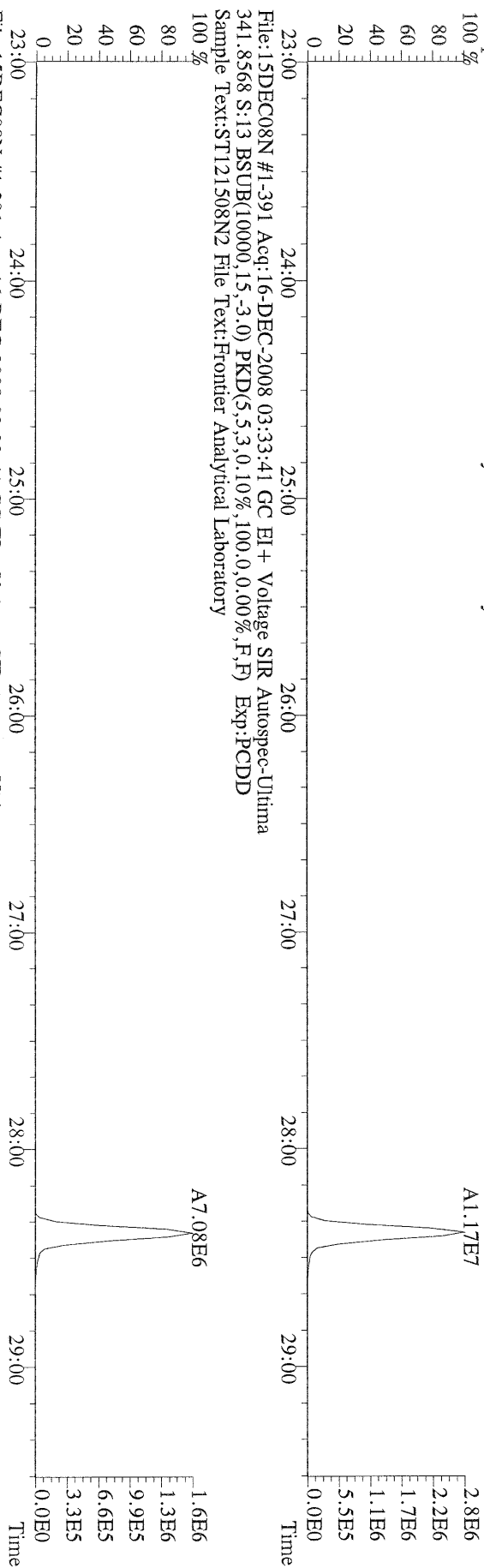


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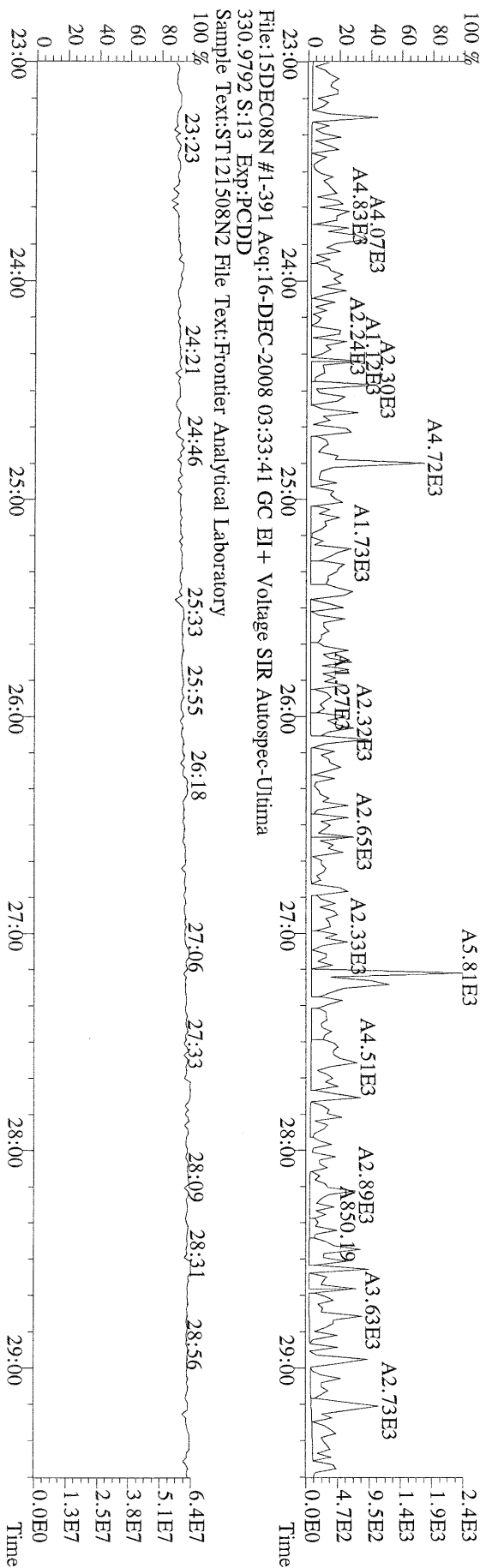


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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory

File:15DEC08N #1-391 Acq:16-DEC-2008 03:33:41 GC EI + Voltage SIR Autospec-Ultima
339.8597 S:13 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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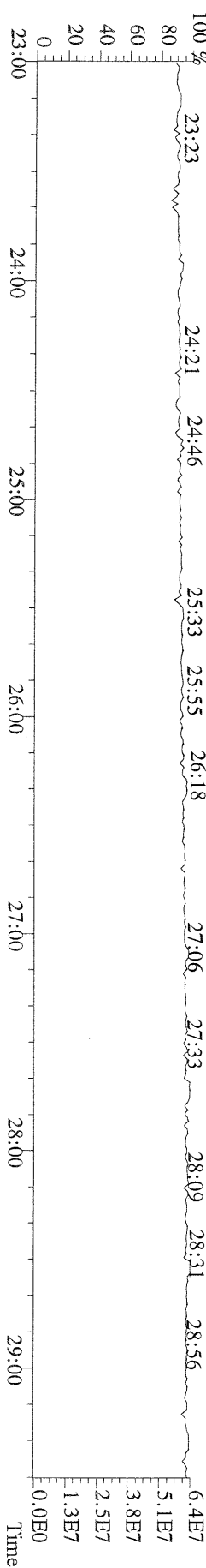


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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory

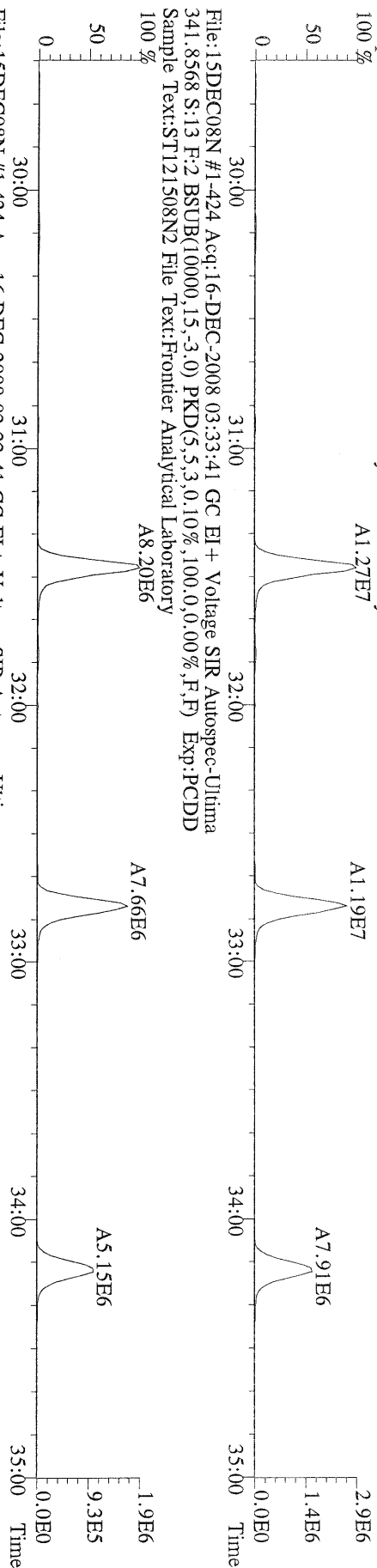


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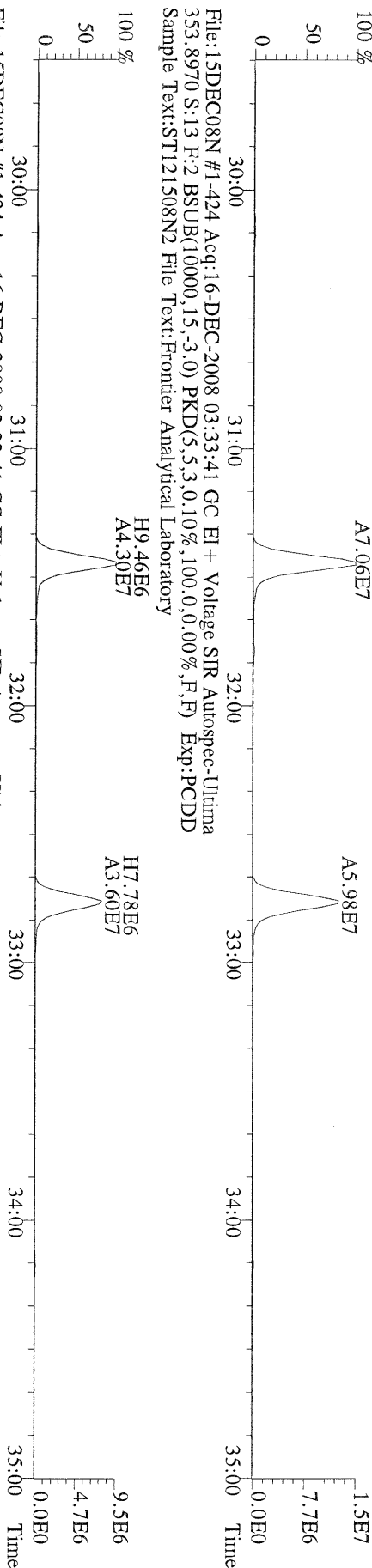
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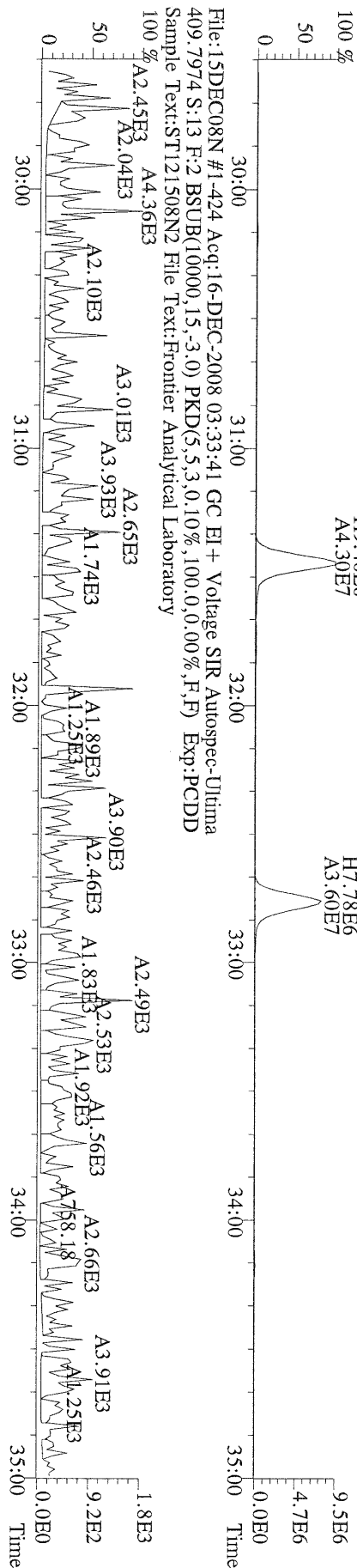
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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory



File:15DEC08N #1-424 Acq:16-DEC-2008 03:33:41 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:ST121508N2 File Text:Frontier Analytical Laboratory

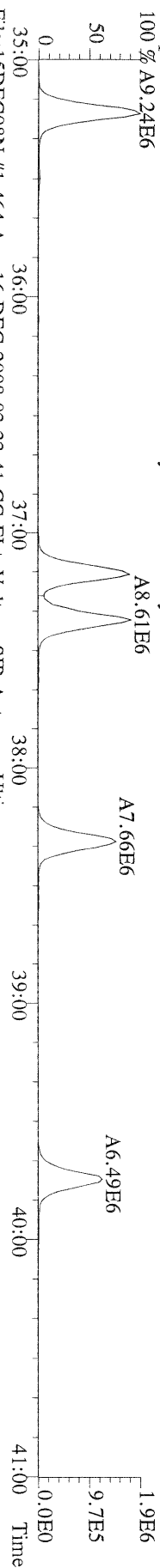


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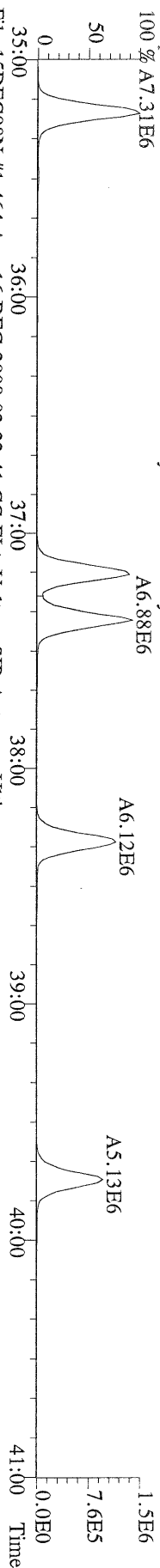


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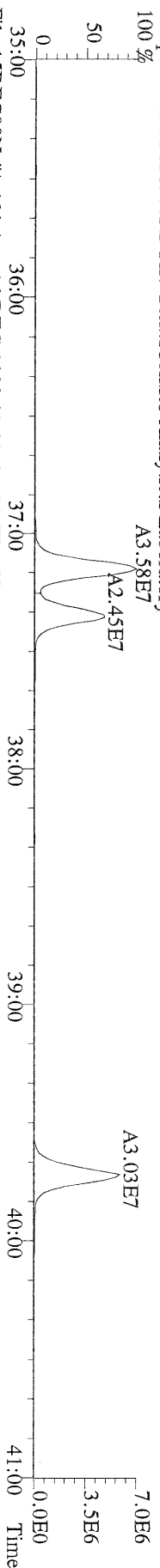
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100 % A9.24E6



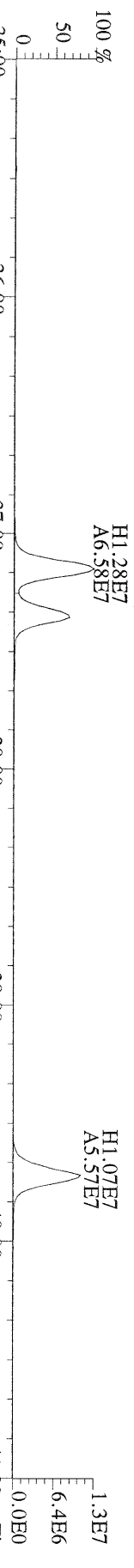
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100 % A7.31E6



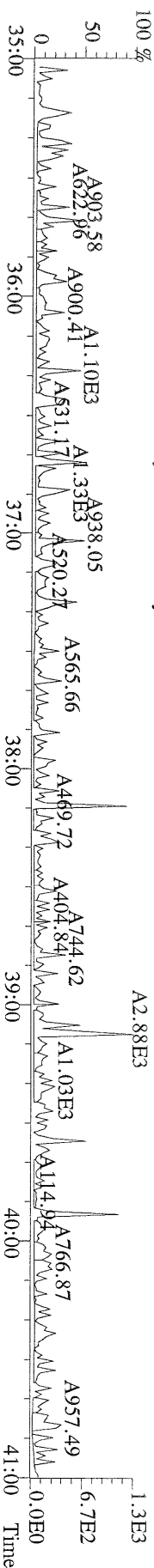
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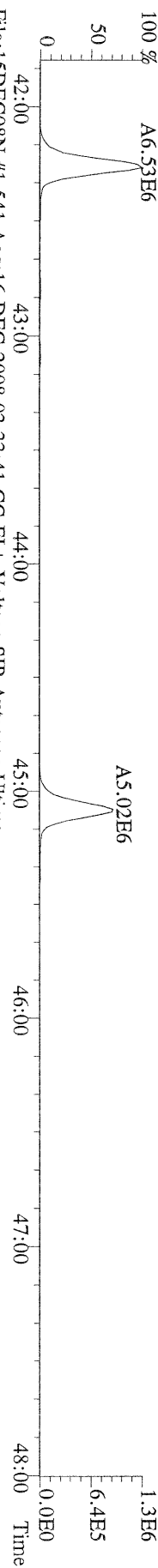
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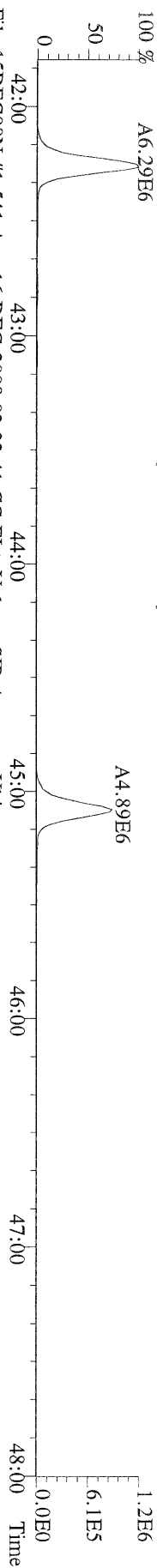
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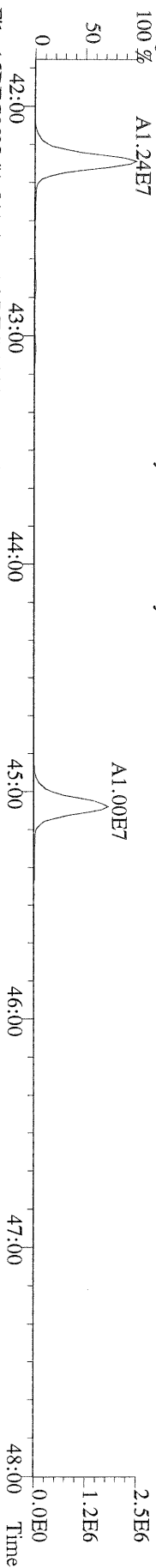
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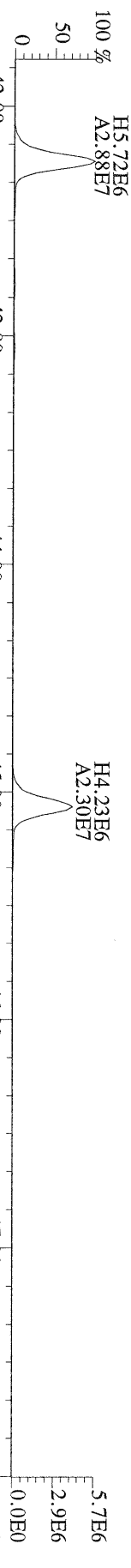
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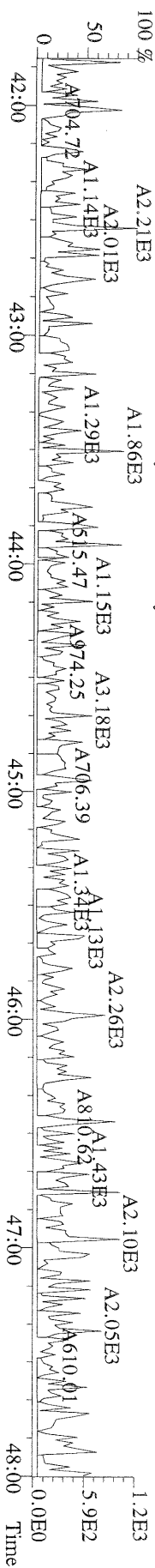
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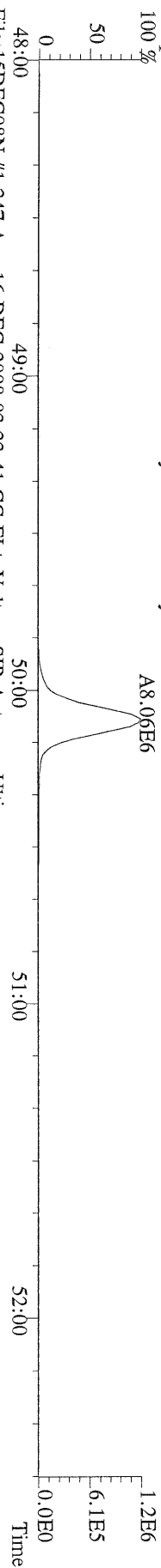
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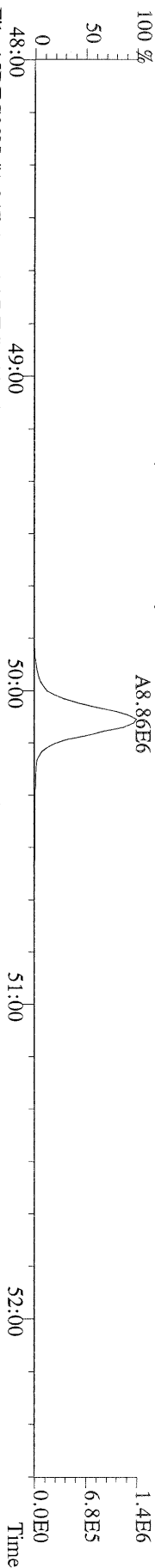
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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory
100 %



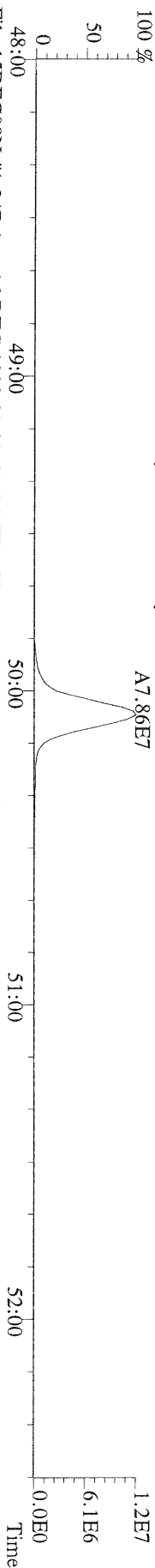
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441.7428 S:13 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory
100 %



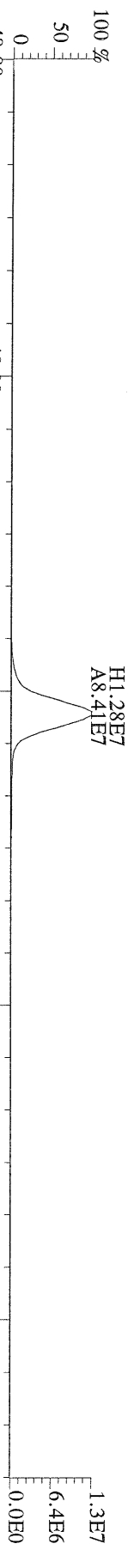
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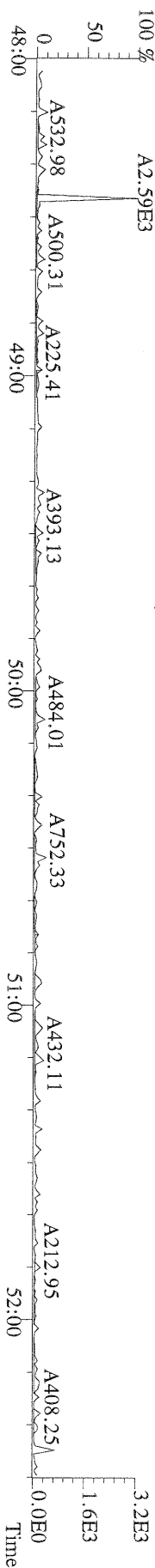
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Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory
100 %



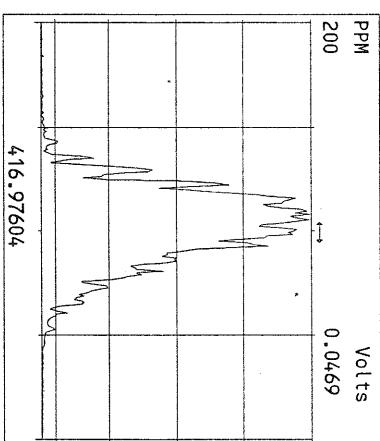
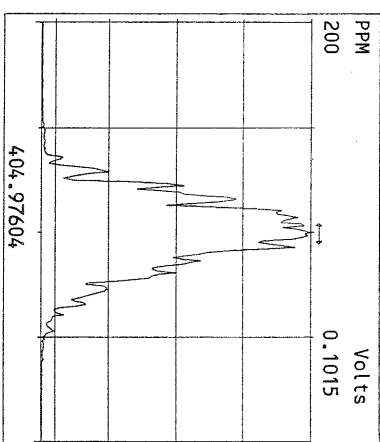
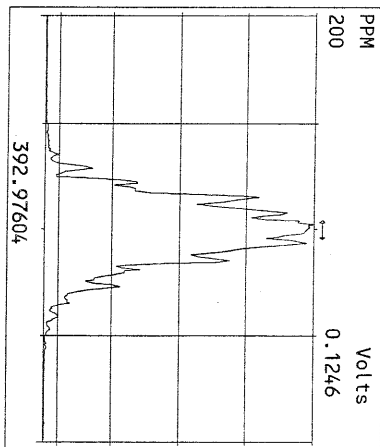
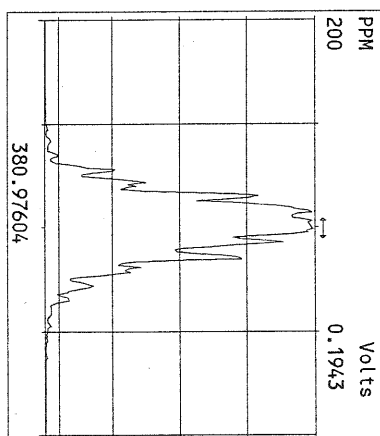
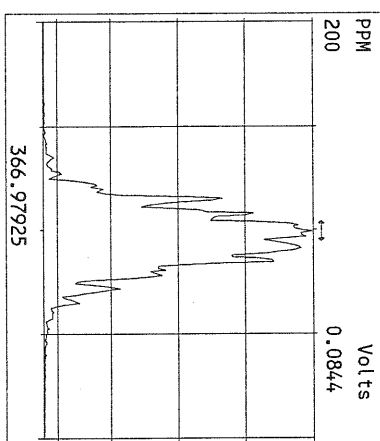
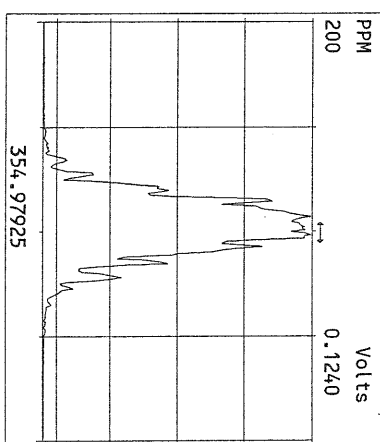
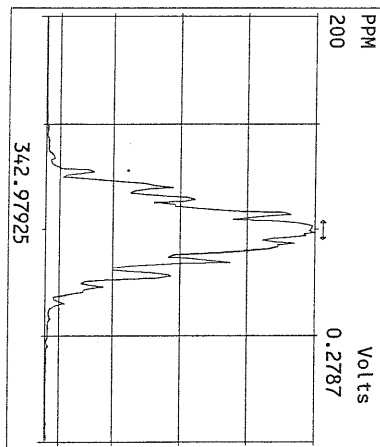
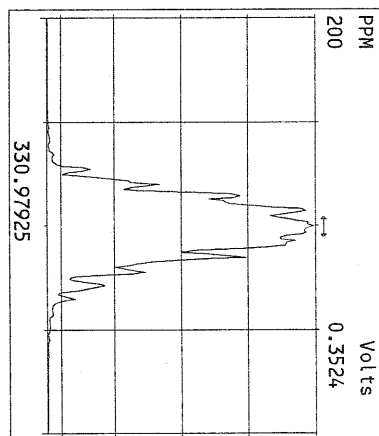
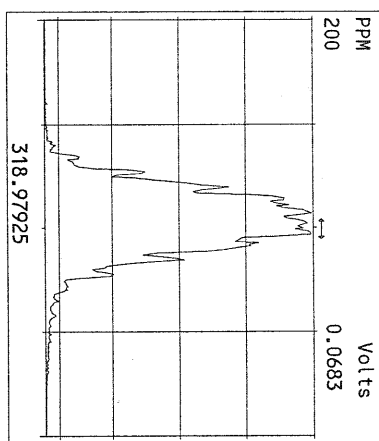
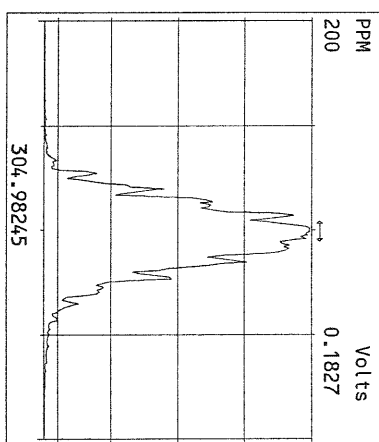
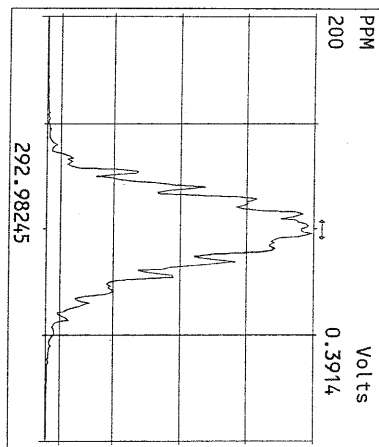
File:15DEC08N #1-347 Acq:16-DEC-2008 03:33:41 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:13 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory



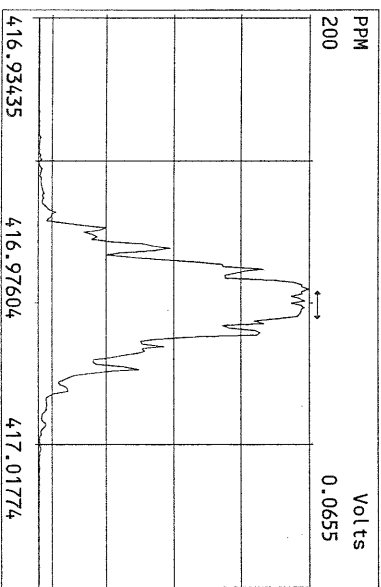
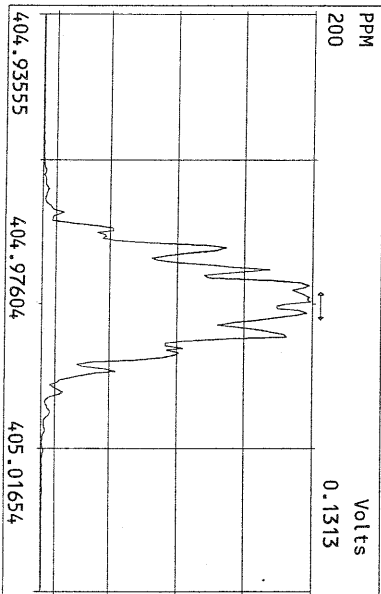
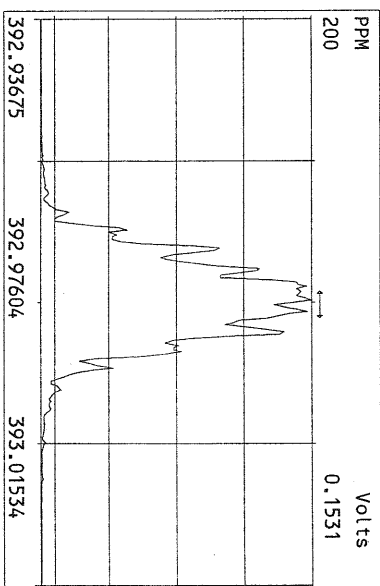
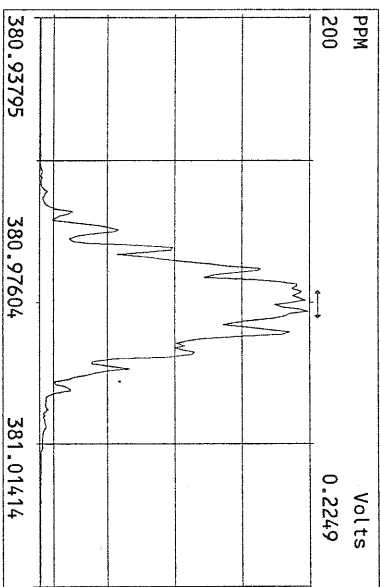
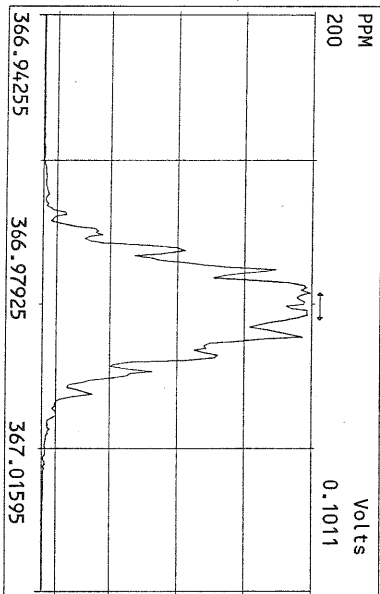
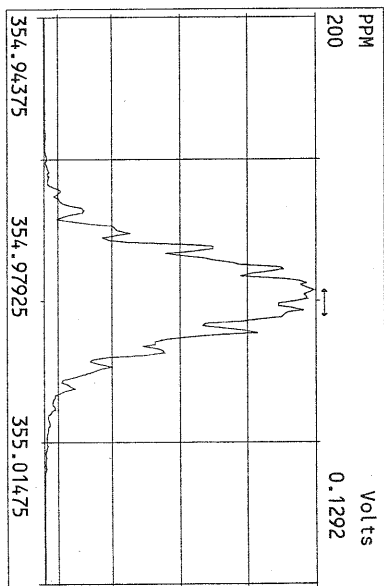
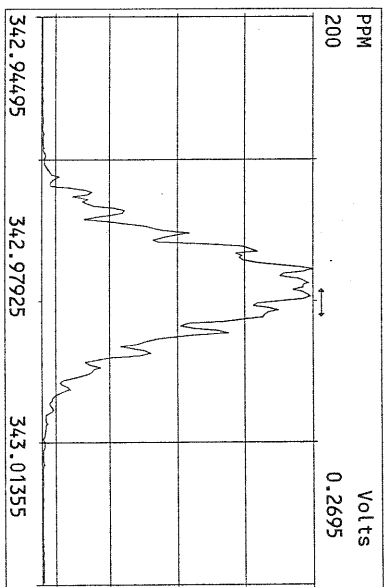
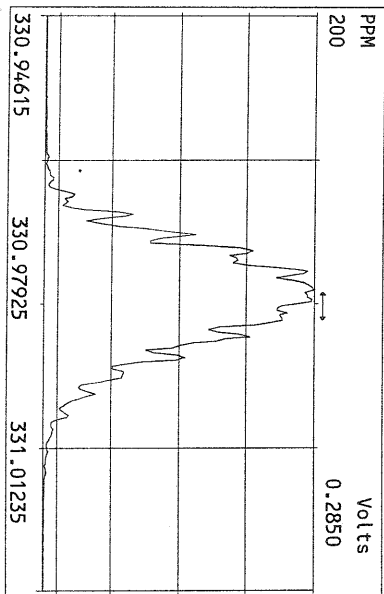
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513.6775 S:13 F:5 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST121508N2 File Text:Frontier Analytical Laboratory
100 %



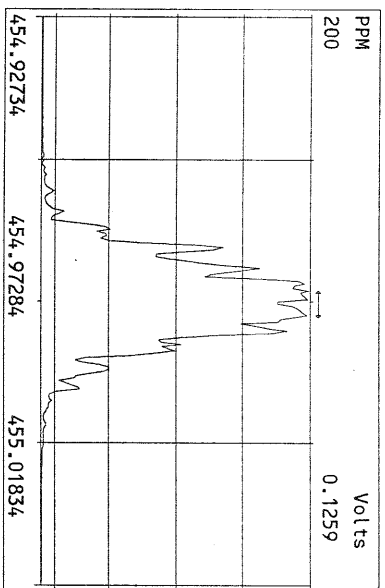
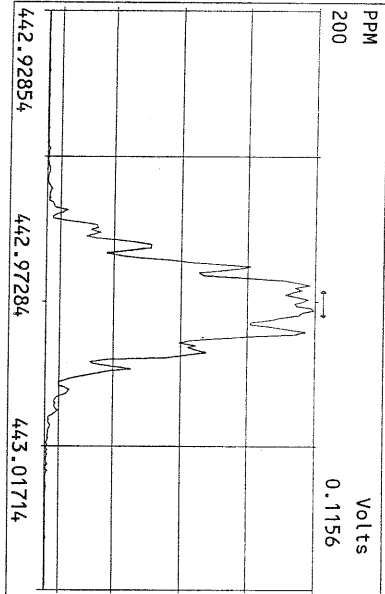
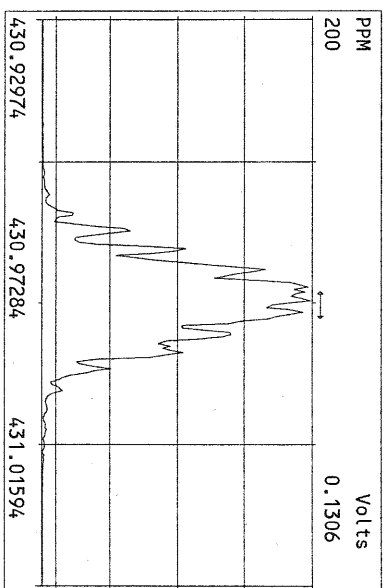
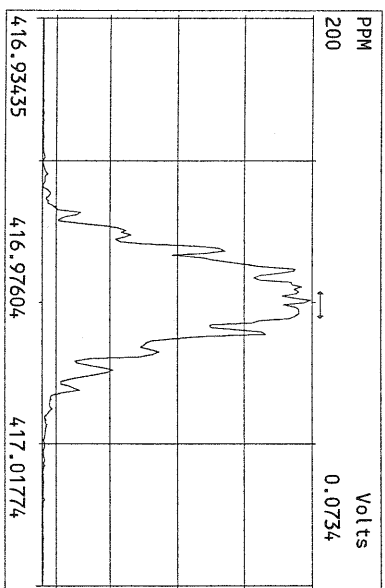
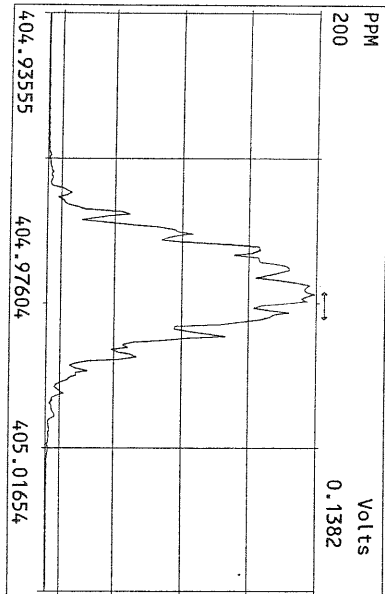
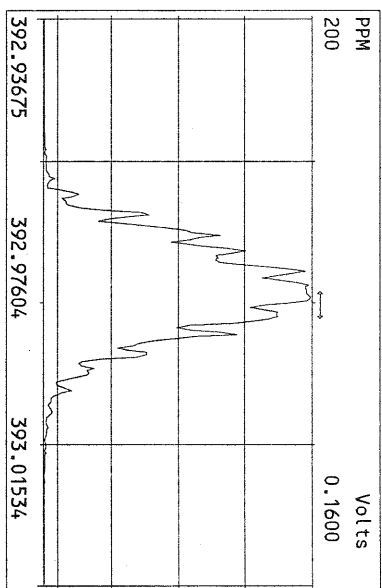
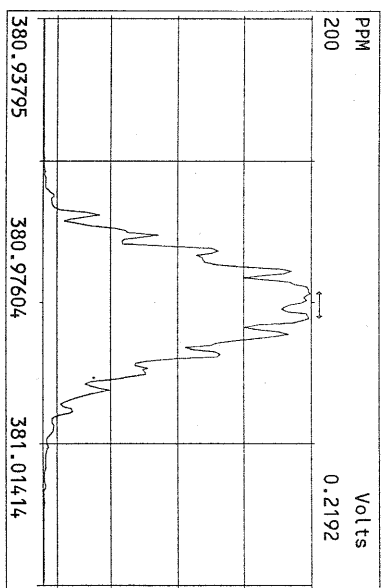
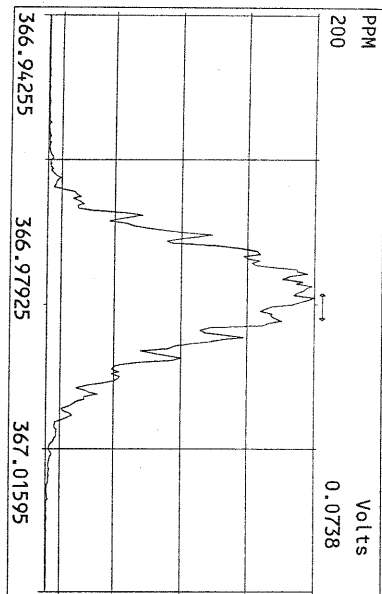
Peak Locate Examination: 16-DEC-2008: 14:48 File: 15DEC08N_RES_CHECK
 Experiment: PCDD Function: 1 Reference: PFK



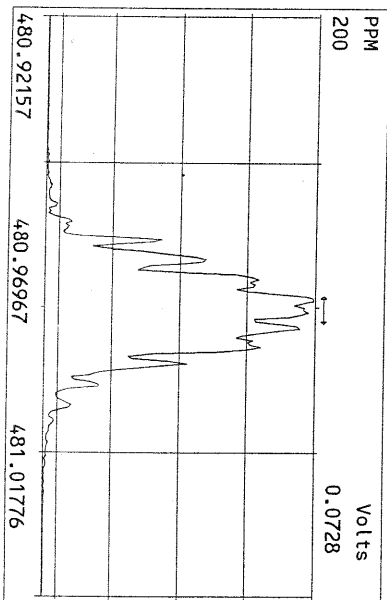
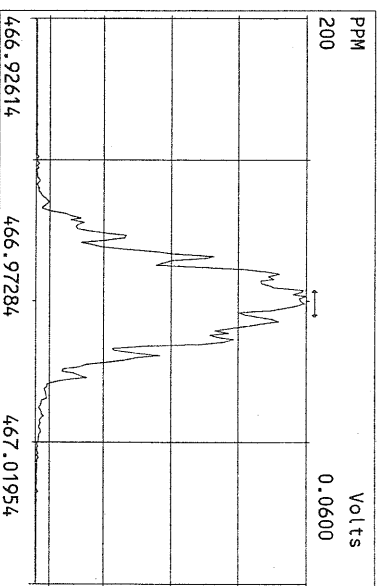
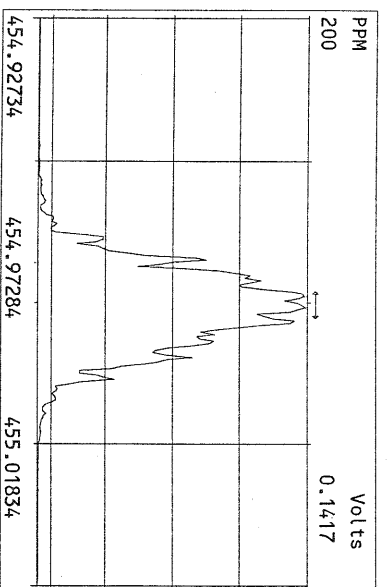
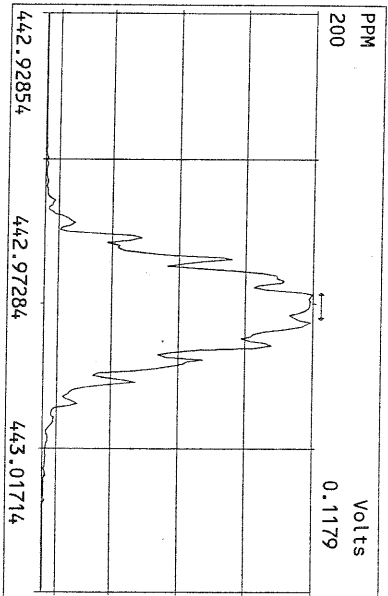
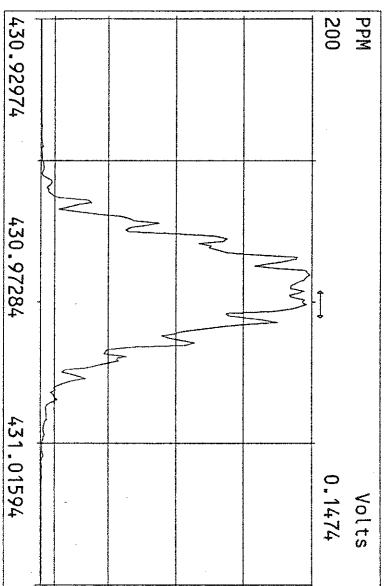
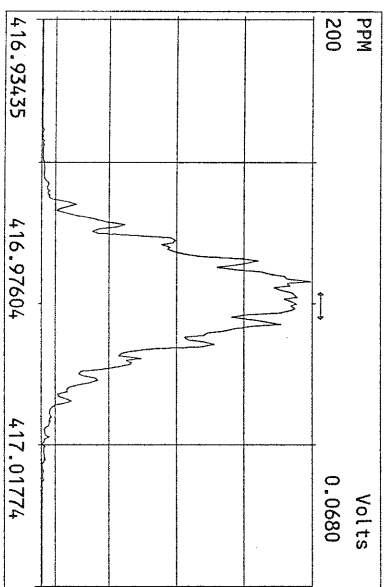
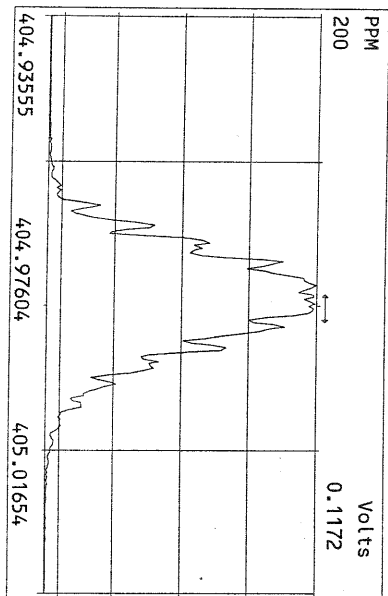
Peak Locate Examination: 16-DEC-2008:14:48 File:15DEC08N_RES_CHECK
Experiment:PCDD Function:2 Reference:PFK



Peak Locate Examination:16-DEC-2008:14:48 File:15DEC08N RES. CHECK
Experiment:PCDD Function:3 Reference:PFK



Peak Locate Examination: 16-DEC-2008: 14:49 File: 15DEC08N_RES_CHECK
Experiment: PCD Function: 4 Reference: PFK



Peak Locate Examination: 16-DEC-2008: 14:49 File: 15DEC08N_RES_CHECK
Experiment: PCDD Function: 5 Reference: PFK

