

Totals class: Total Hexa-Furans

Entry #: 45

Run: 12

File: 07APR11M

S: 4 I: 1 F: 3

Acquired: 7-APR-11 17:59:16

Total Concentration: 187

Unnamed Concentration: 160.327

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
35:31	9.23e+05	7.50e+05	1.23 y	1.67e+06	19.2	
35:46	3.01e+06	2.43e+06	1.24 y	5.44e+06	62.5	
36:23	1.11e+05	9.07e+04	1.22 y	2.02e+05	2.32	
36:41	3.39e+06	2.76e+06	1.23 y	6.15e+06	70.7	
37:18	8.17e+04	7.18e+04	1.14 y	1.54e+05	1.76	
37:28	4.88e+05	3.98e+05	1.23 y	8.87e+05	11.6	1,2,3,4,7,8-HxCDF
37:39	3.19e+05	2.71e+05	1.18 y	5.90e+05	6.48	1,2,3,6,7,8-HxCDF
38:07	5.95e+04	5.43e+04	1.10 y	1.14e+05	1.31	
38:20	1.17e+05	1.02e+05	1.14 y	2.19e+05	2.52	
38:37	3.23e+05	2.91e+05	1.11 y	6.14e+05	7.58	2,3,4,6,7,8-HxCDF
40:06	7.30e+04	5.51e+04	1.32 y	1.28e+05	1.29	1,2,3,7,8,9-HxCDF

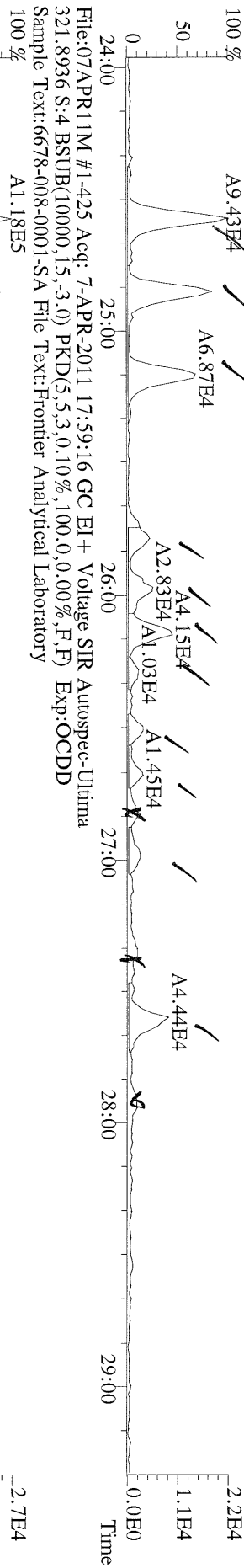
Totals class: Total Hepta-Furans Entry #: 46

Run: 12 File: 07APR11M S: 4 I: 1 F: 4  
Acquired: 7-APR-11 17:59:16

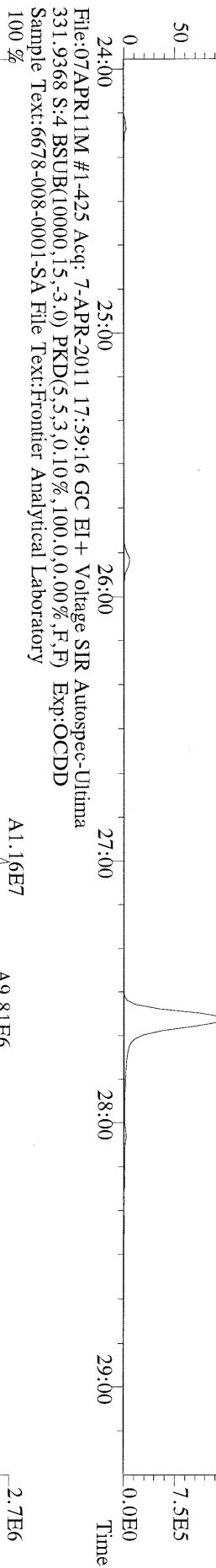
Total Concentration: 508 Unnamed Concentration: 322.966

RT	ml Resp	m2 Resp	RA	Resp	Concentration	Name
42:34	6.46e+06	6.02e+06	1.07 y	1.25e+07	176	1,2,3,4,6,7,8-HpCDF
43:06	1.62e+05	1.57e+05	1.03 y	3.18e+05	4.59	
43:23	1.14e+07	1.06e+07	1.08 y	2.21e+07	318	
45:23	2.88e+05	2.89e+05	1.00 y	5.77e+05	8.56	1,2,3,4,7,8,9-HpCDF

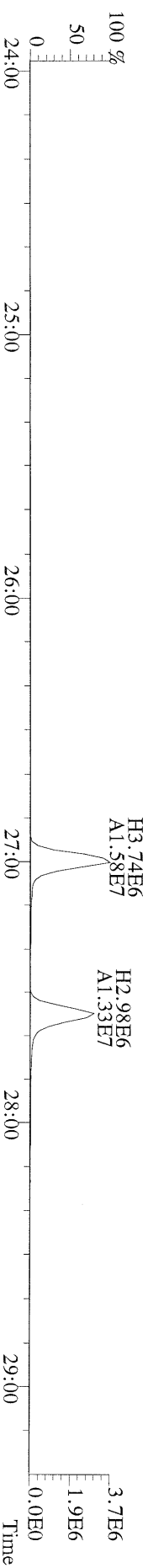
File:07APR11M #1-425 Acq: 7-APR-2011 17:59:16 GC EI + Voltage SIR Autospec-Ultima  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



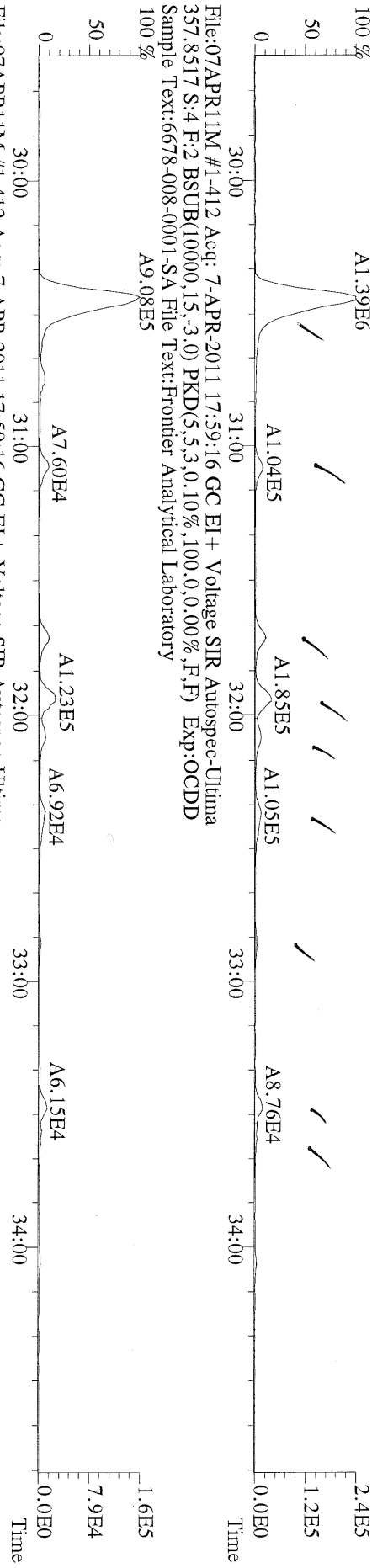
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327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:OCDD  
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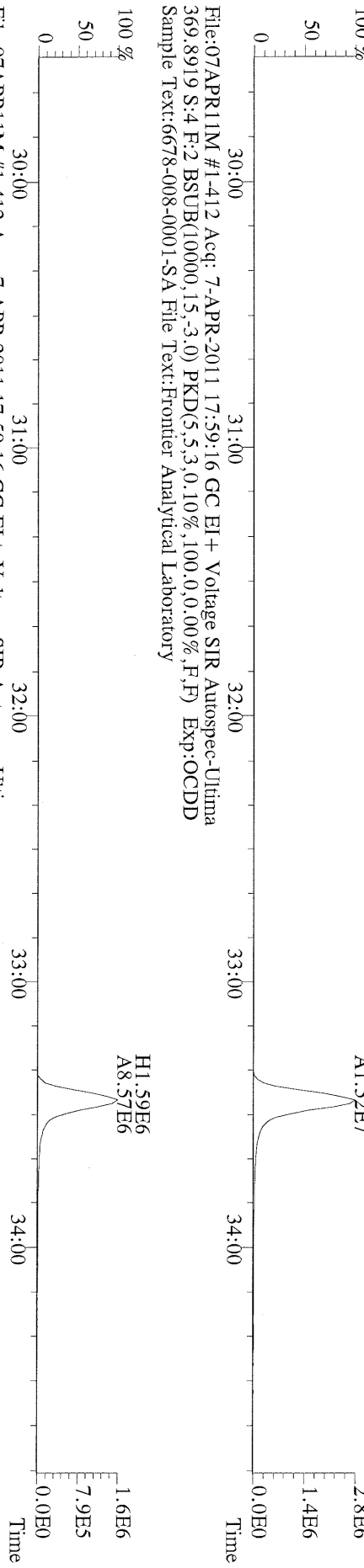
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333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%) Exp:OCDD  
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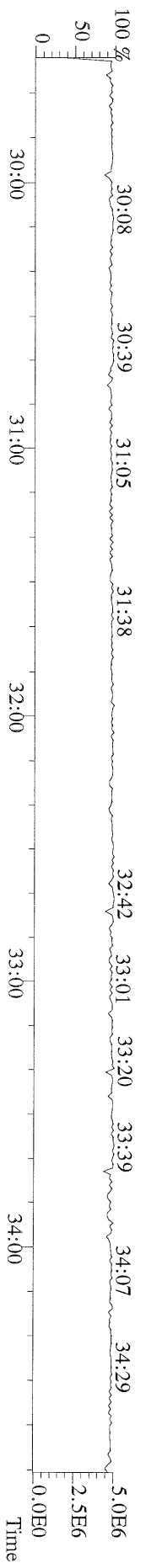
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355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



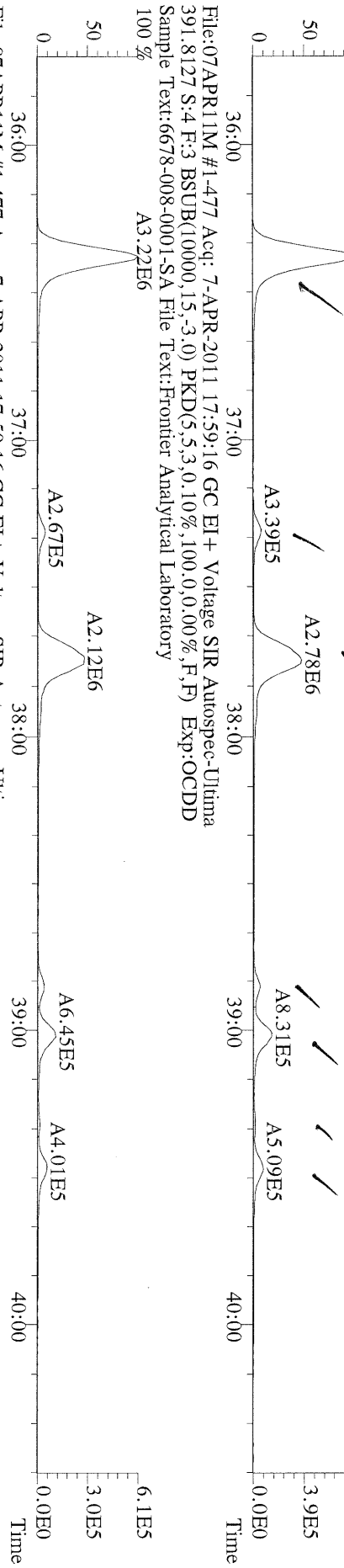
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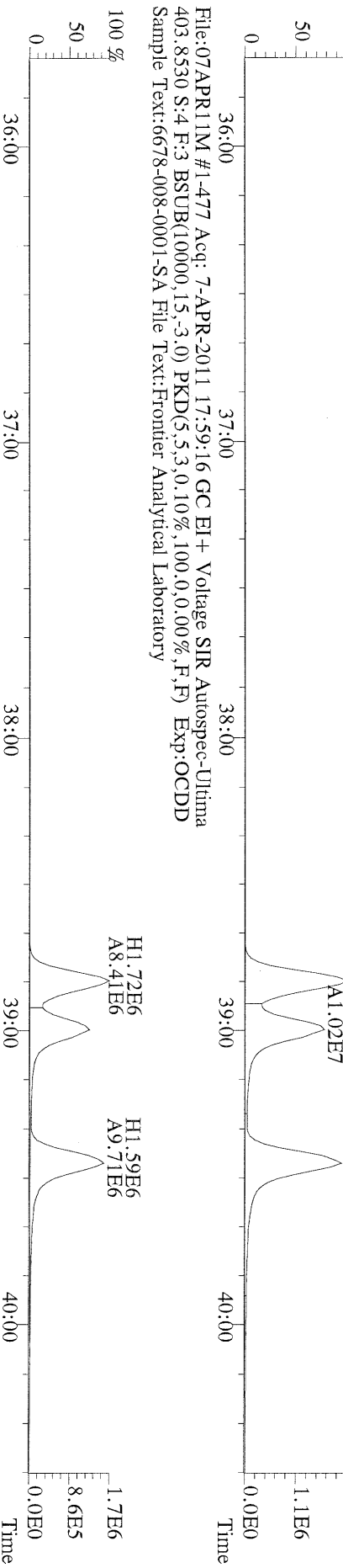
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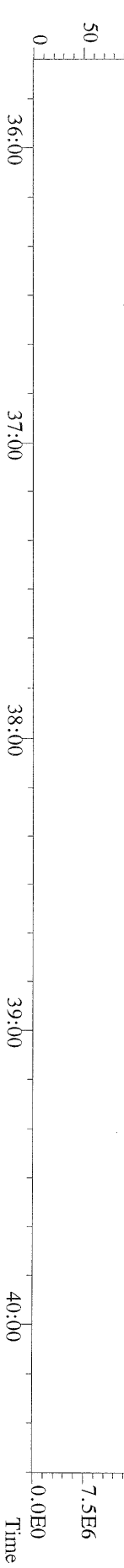
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389,8156 S:4 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0,0,0,0) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



File:07APR11M #1-477 Acq: 7-APR-2011 17:59:16 GC EI+ Voltage SIR Autospec-Ultima  
401,8559 S:4 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0,0,0) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



File:07APR11M #1-477 Acq: 7-APR-2011 17:59:16 GC EI+ Voltage SIR Autospec-Ultima  
380,9760 S:4 F:3 Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



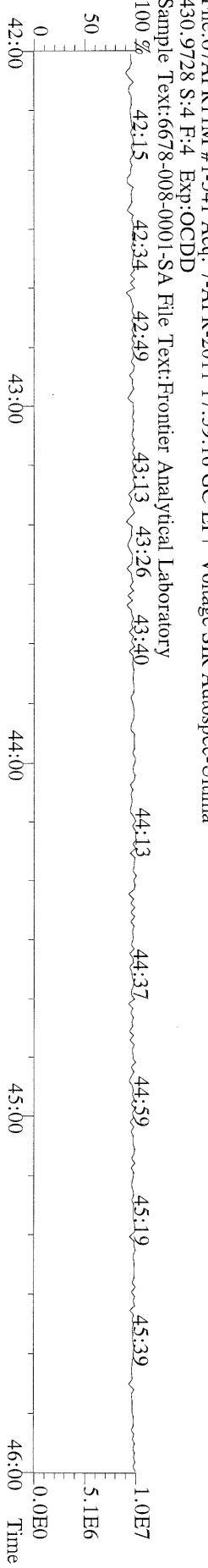
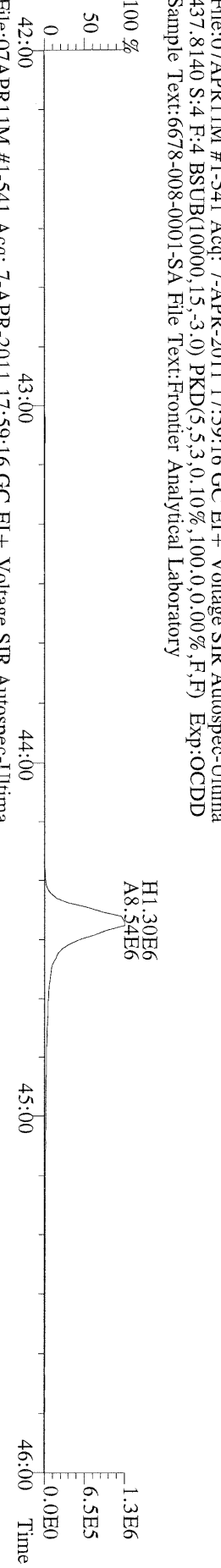
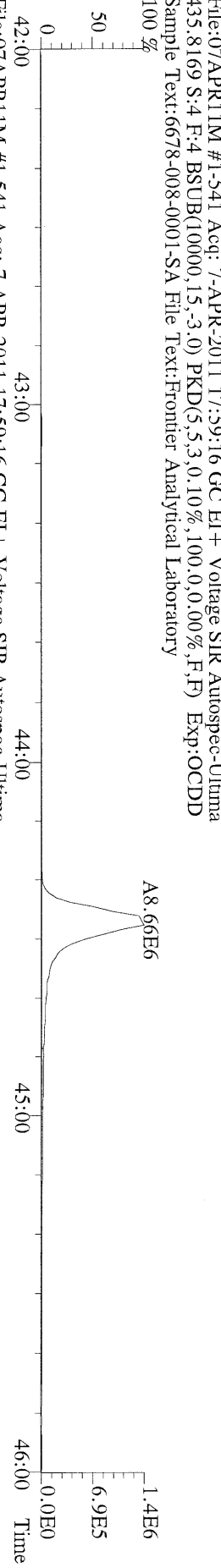
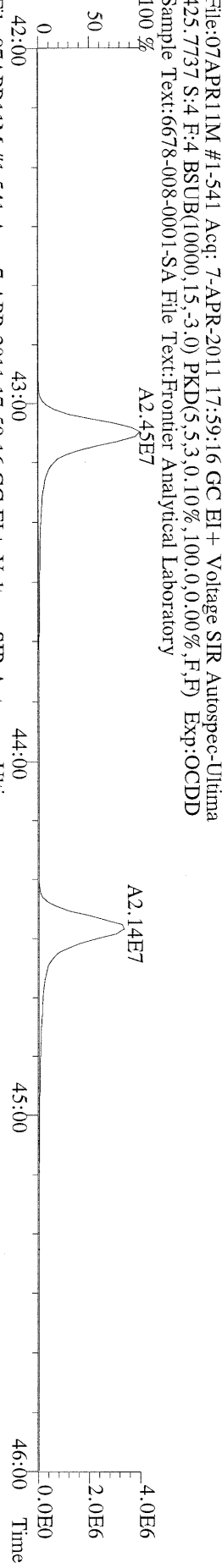
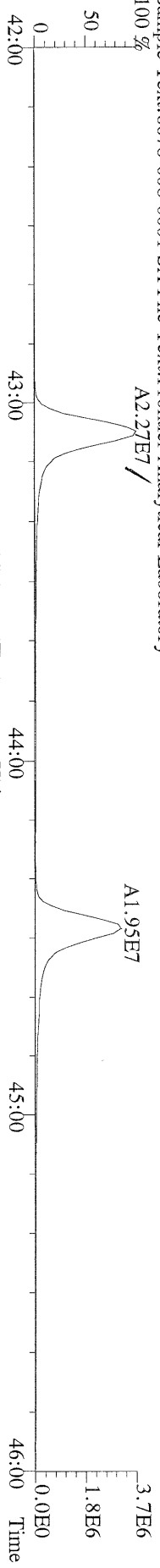
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423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory  
100 %

File:07APR11M #1-541 Acq: 7-APR-2011 17:59:16 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:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory  
100 %

File:07APR11M #1-541 Acq: 7-APR-2011 17:59:16 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:OCDD  
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100 %

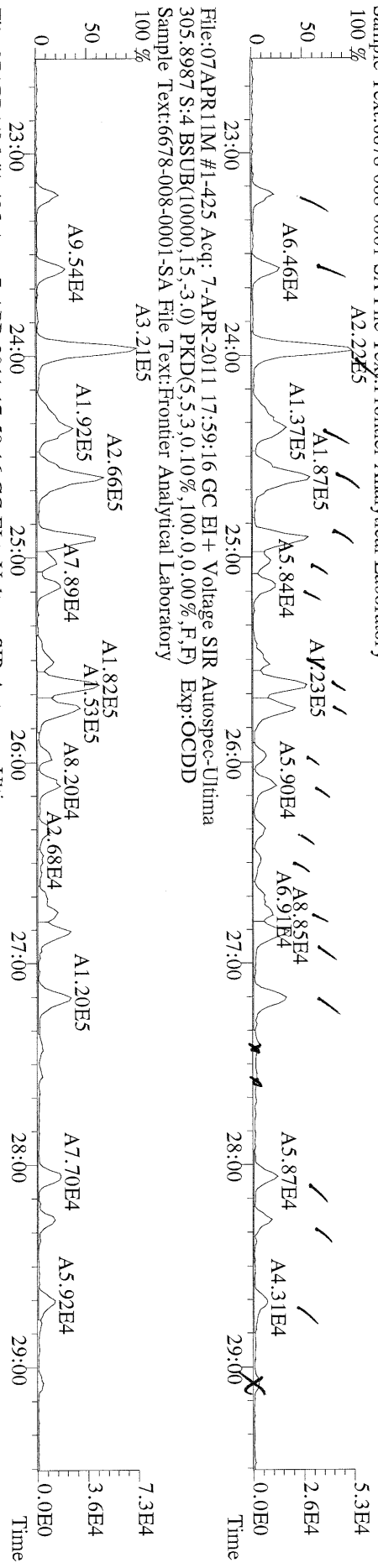
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File:07APR11M #1-541 Acq: 7-APR-2011 17:59:16 GC EI + Voltage SIR Autospec-Ultima  
430.9728 S:4 F:4 Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory  
100 %

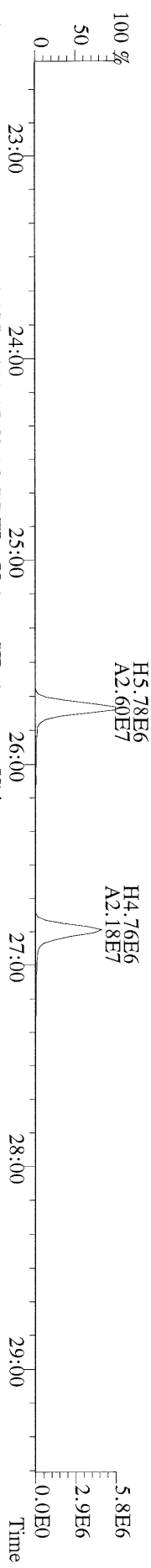




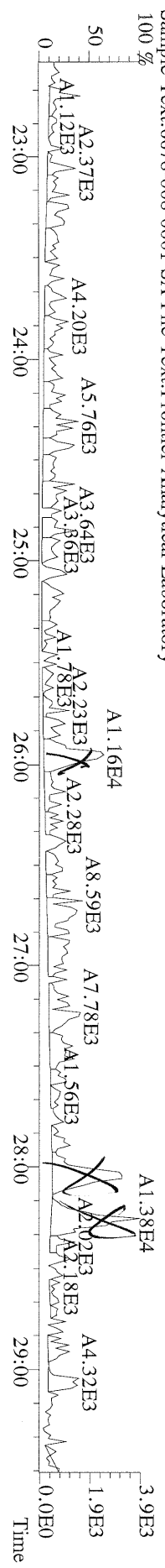
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303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



File:07APR11M #1-425 Acq: 7-APR-2011 17:59:16 GC EI + Voltage SIR Autospec-Ultima  
317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory

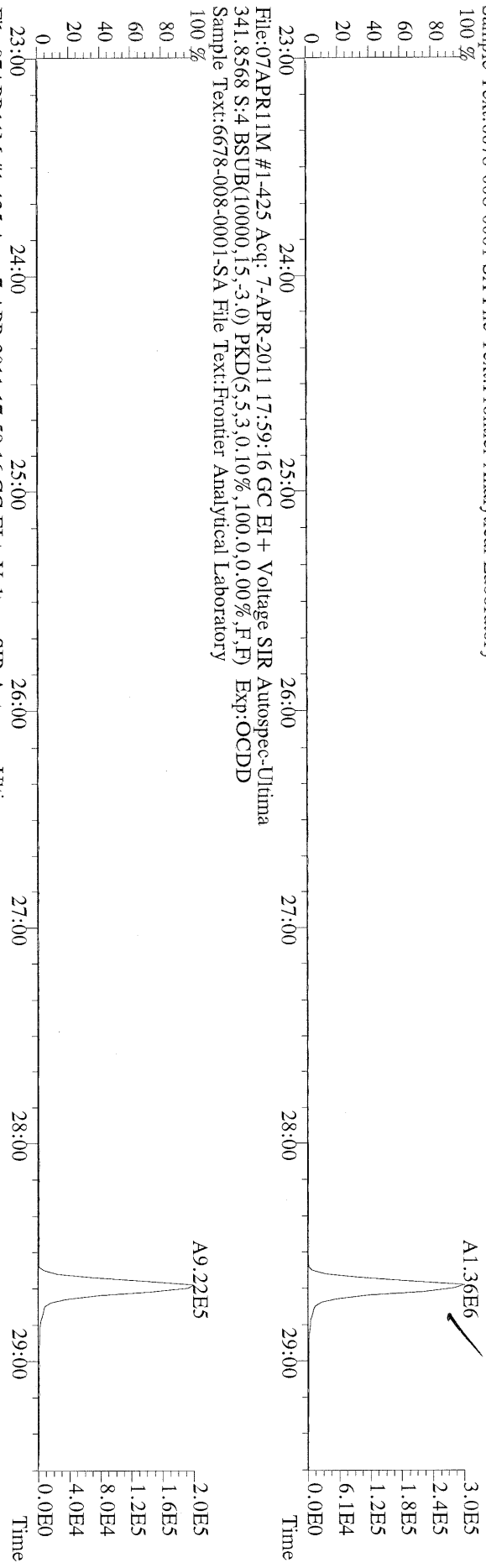


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375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
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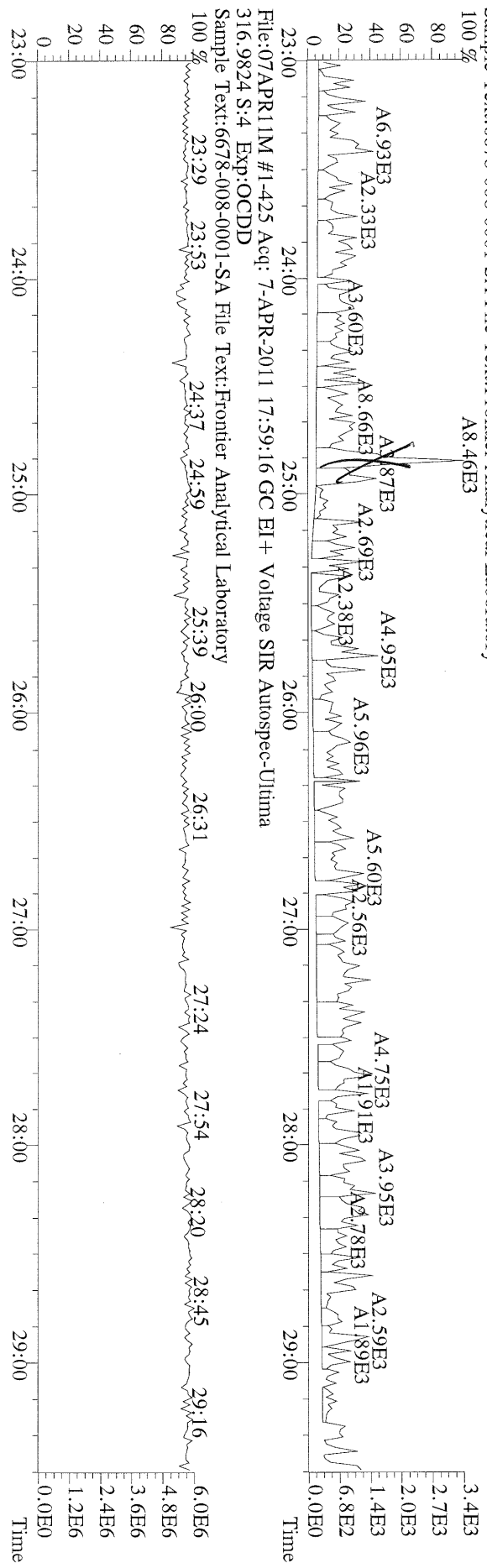




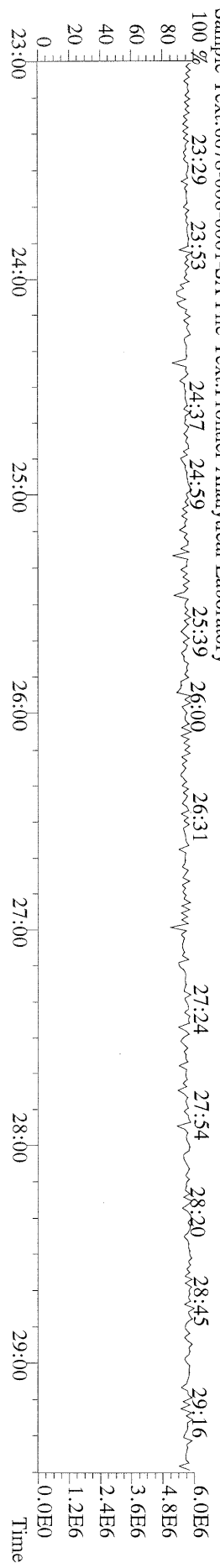
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 Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



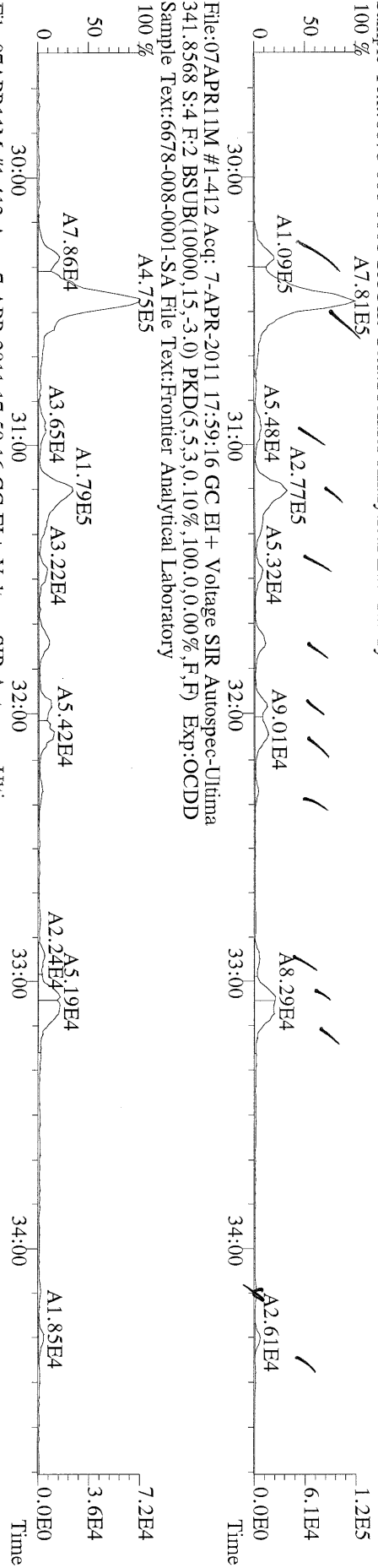
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 Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



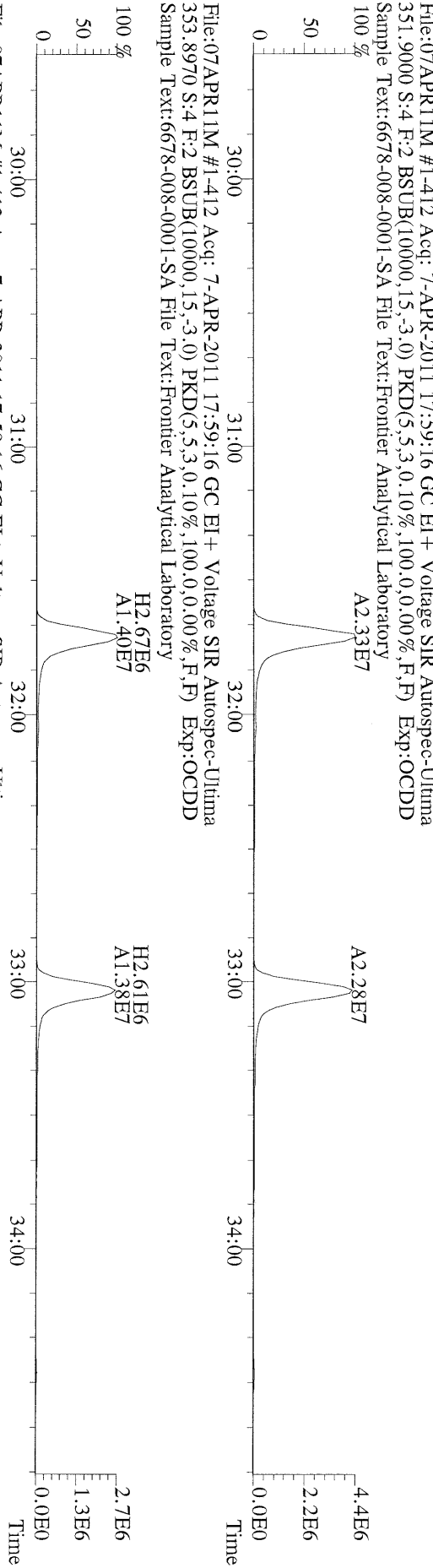
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 316.9824 S:4 Exp:OCDD  
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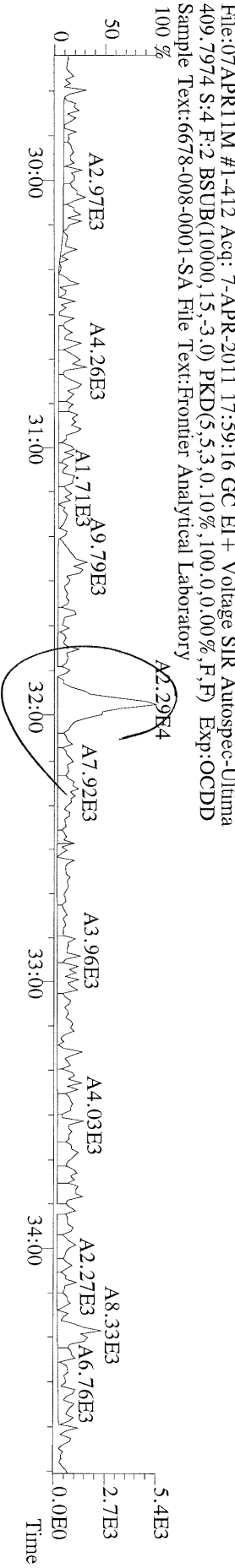
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339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



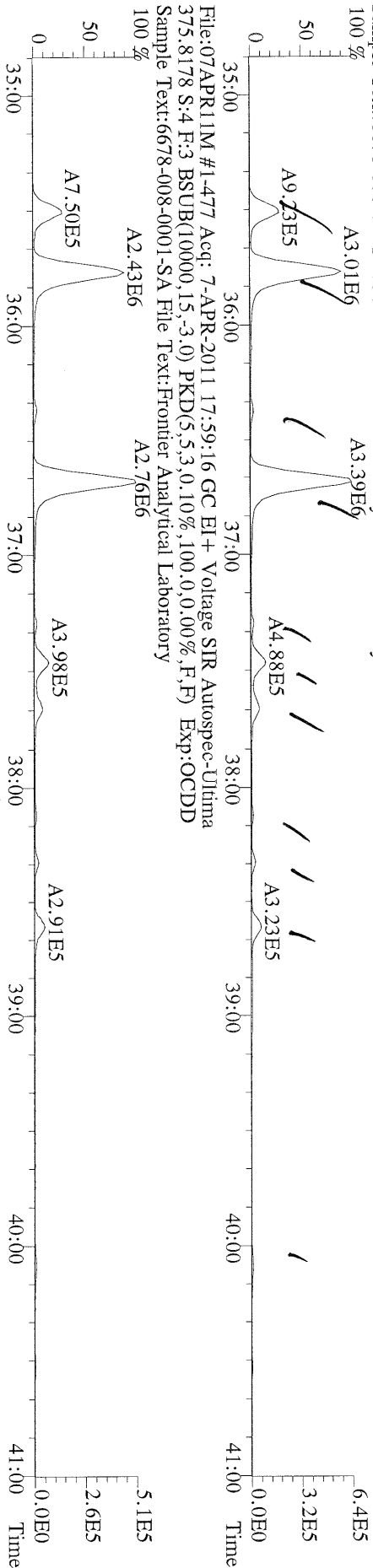
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351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



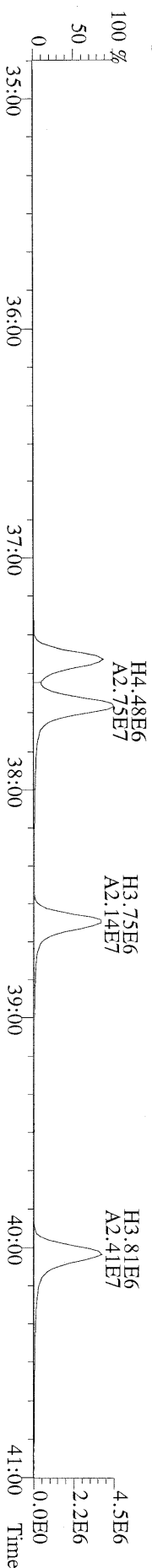
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409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



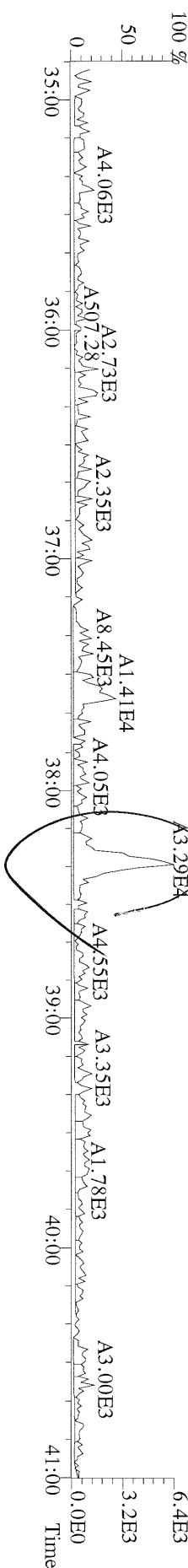
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373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
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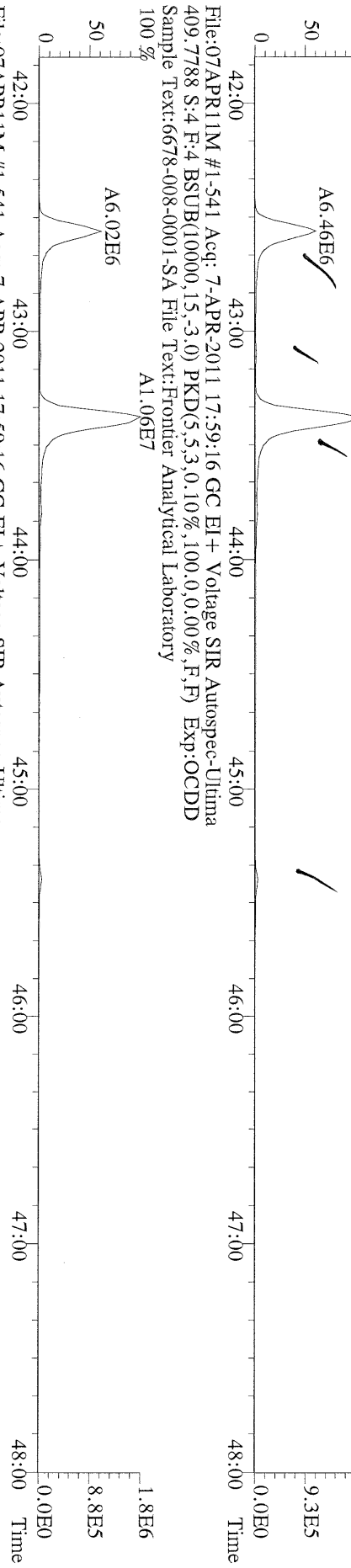
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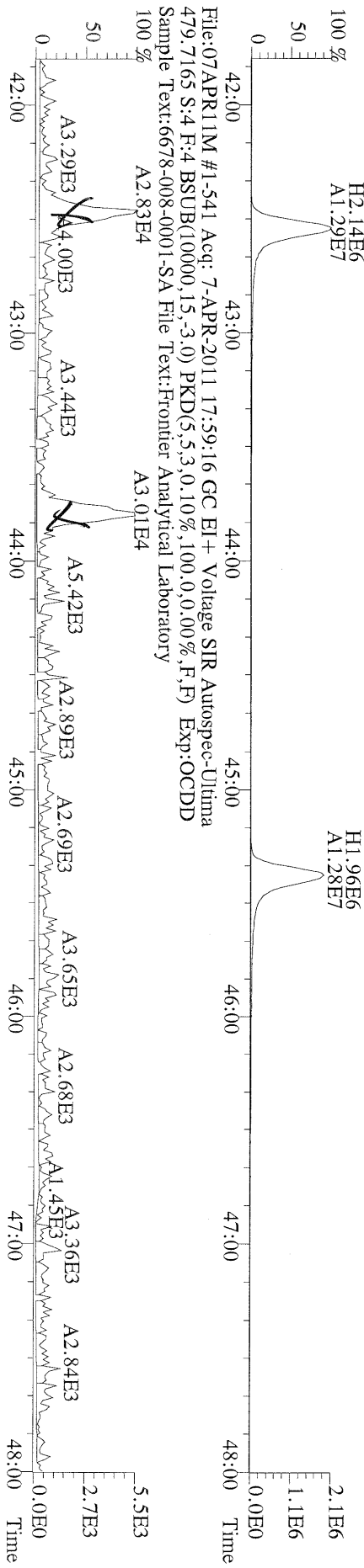
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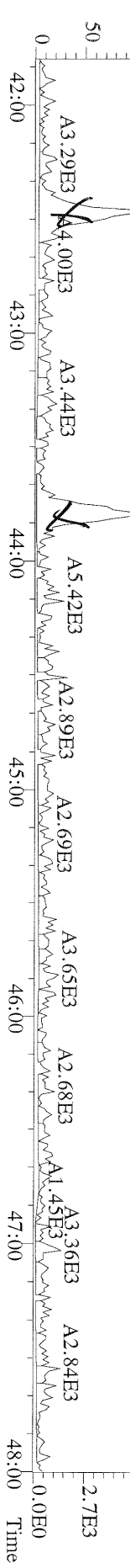
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407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
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100 %



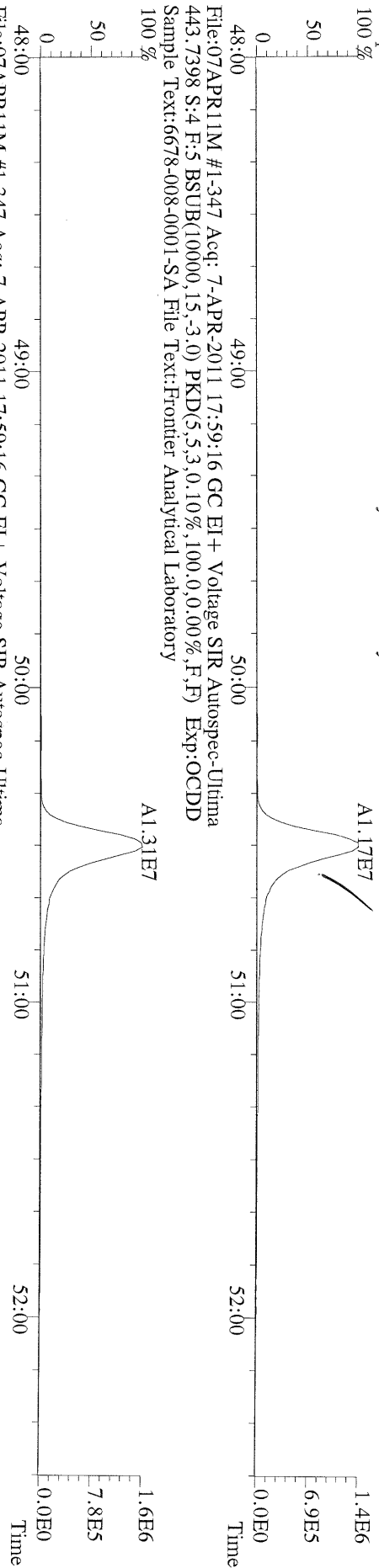
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417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
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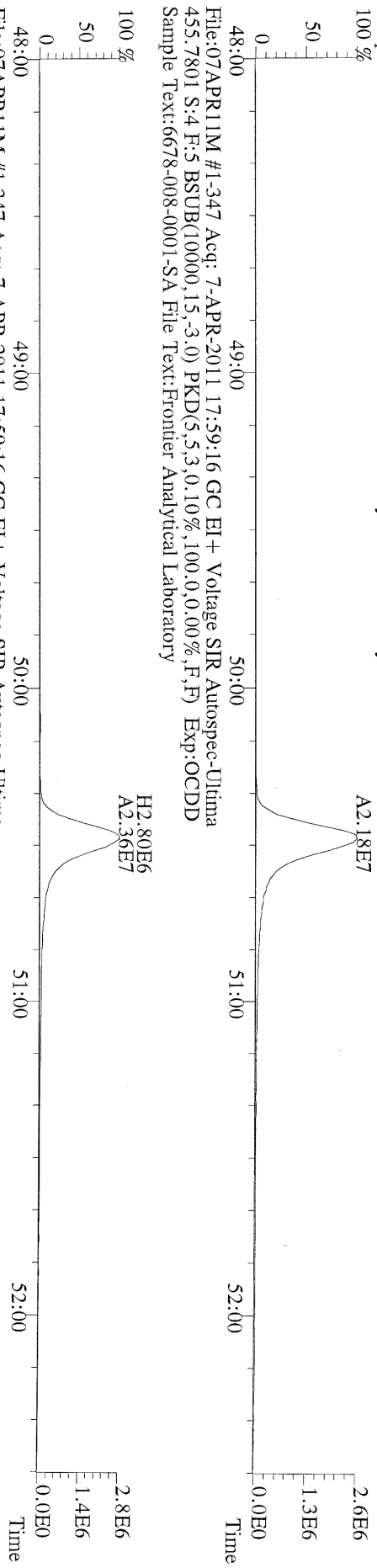
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479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory  
100 %



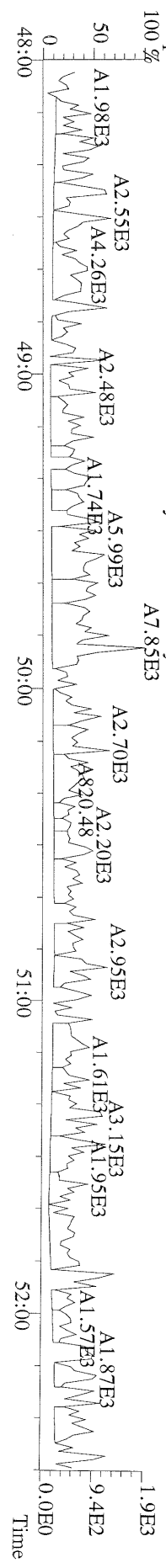
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441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



File:07APR11M #1-347 Acq: 7-APR-2011 17:59:16 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory



File:07APR11M #1-347 Acq: 7-APR-2011 17:59:16 GC EI+ Voltage SIR Autospec-Ultima  
513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:6678-008-0001-SA File Text:Frontier Analytical Laboratory















Run #3 Filename 07MAR11M  
Client ID: ST030711M4

S: 4 Acquired: 7-MAR-11 14:44:29 Cal: PCDDFAL3-3-7-11  
Analyte: FAL ID: 1613 Cs4 100511K

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk 2,3,7,8-TCDD	40.00	1.84e+07	0.80 y	27:27	-	1.14 y
2	Unk 1,2,3,7,8-PeCDD	200.00	8.36e+07	1.43 y	33:16	-	1.06 y
3	Unk 1,2,3,4,7,8-HxCDD	200.00	9.27e+07	1.28 y	38:40	-	1.51 y
4	Unk 1,2,3,6,7,8-HxCDD	200.00	7.25e+07	1.27 y	38:49	-	1.47 y
5	Unk 1,2,3,7,8,9-HxCDD	200.00	8.35e+07	1.27 y	39:16	-	1.51 y
6	Unk 1,2,3,4,6,7,8-HpCDD	200.00	5.64e+07	0.89 y	44:15	-	1.28 y
7	Unk OCDD	400.00	1.00e+08	0.91 y	49:51	-	1.47 y
8	Unk 2,3,7,8-TCDF	40.00	3.24e+07	0.67 y	26:40	-	1.13 y
9	Unk 1,2,3,7,8-PeCDF	200.00	1.15e+08	1.67 y	31:33	-	0.943 y
10	Unk 2,3,4,7,8-PeCDF	200.00	1.10e+08	1.63 y	32:52	-	0.948 y
11	Unk 1,2,3,4,7,8-HxCDF	200.00	9.76e+07	1.20 y	37:15	-	1.06 y
12	Unk 1,2,3,6,7,8-HxCDF	200.00	1.09e+08	1.20 y	37:28	-	0.943 y
13	Unk 2,3,4,6,7,8-HxCDF	200.00	1.01e+08	1.20 y	38:24	-	1.07 y
14	Unk 1,2,3,7,8,9-HxCDF	200.00	1.22e+08	1.22 y	39:50	-	1.16 y
15	Unk 1,2,3,4,6,7,8-HpCDF	200.00	8.08e+07	1.03 y	42:21	-	1.55 y
16	Unk 1,2,3,4,7,8,9-HpCDF	200.00	6.31e+07	1.04 y	45:11	-	1.53 y
17	Unk OCDF	400.00	1.18e+08	0.93 y	50:13	-	0.902 y
18	IS/RT 13C-2,3,7,8-TCDD	100.00	4.05e+07	0.70 y	27:25	-	1.07 y
19	IS 13C-1,2,3,7,8-PeCDD	100.00	3.94e+07	1.69 y	33:16	-	1.04 y
20	IS 13C-1,2,3,4,7,8-HxCDD	100.00	3.06e+07	1.27 y	38:37	-	1.22 y
21	IS 13C-1,2,3,6,7,8-HxCDD	100.00	2.47e+07	1.27 y	38:48	-	0.983 y
22	IS 13C-1,2,3,4,6,7,8-HpCDD	100.00	2.20e+07	1.07 y	44:14	-	0.877 y
23	IS 13C-OCDD	200.00	3.41e+07	1.00 y	49:49	-	0.679 y
24	IS 13C-2,3,7,8-TCDF	100.00	7.18e+07	0.87 y	26:39	-	1.02 y
25	IS 13C-1,2,3,7,8-PeCDF	100.00	6.11e+07	1.64 y	31:31	-	0.872 y
26	IS 13C-2,3,4,7,8-PeCDF	100.00	5.79e+07	1.63 y	32:51	-	0.826 y
27	IS 13C-1,2,3,4,7,8-HxCDF	100.00	4.62e+07	0.44 y	37:14	-	1.84 y
28	IS 13C-1,2,3,6,7,8-HxCDF	100.00	5.78e+07	0.44 y	37:26	-	2.31 y
29	IS 13C-2,3,4,6,7,8-HxCDF	100.00	4.75e+07	0.44 y	38:23	-	1.89 y
30	IS 13C-1,2,3,7,8,9-HxCDF	100.00	5.27e+07	0.44 y	39:49	-	2.10 y
31	IS 13C-1,2,3,4,6,7,8-HpCDF	100.00	2.60e+07	0.47 y	42:20	-	1.04 y
32	IS 13C-1,2,3,4,7,8,9-HpCDF	100.00	2.07e+07	0.47 y	45:09	-	0.823 y
33	IS 13C-OCDF	200.00	6.54e+07	0.93 y	50:12	-	1.30 y
34	C/Up 37Cl-2,3,7,8-TCDD	40.00	1.14e+07		27:27	-	0.750 y
35	RS 13C-1,2,3,4-TCDD	100.00	3.80e+07	0.72 y	26:50	3.80e+05	- n
36	RS 13C-1,2,3,4-TCDF	100.00	7.01e+07	0.85 y	25:34	7.01e+05	- n
37	RS/RT 13C-1,2,3,7,8,9-HxCDD	100.00	2.51e+07	1.26 y	39:14	2.51e+05	- n
38	Tot Total Tetra-Dioxins	0.00	-	- n	-	-	1.14 y
39	Tot Total Penta-Dioxins	0.00	-	- n	-	-	1.06 y
40	Tot Total Hexa-Dioxins	0.00	-	- n	-	-	1.50 y
41	Tot Total Hepta-Dioxins	0.00	-	- n	-	-	1.28 y
42	Tot Total Tetra-Furans	0.00	-	- n	-	-	1.13 y
43	Tot 1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.945 y
44	Tot Total Penta-Furans	0.00	-	- n	-	-	0.945 y
45	Tot Total Hexa-Furans	0.00	-	- n	-	-	1.05 y
46	Tot Total Hepta-Furans	0.00	-	- n	-	-	1.54 y

Analyst: J Date: 3/8/11





## PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3 GC Column ID: DB5

CS0 Data Filename: 07MAR11M S1 CS4 Data Filename: 07MAR11M S5

CS1 Data Filename: 07MAR11M S3 CS4 Data Filename: 07MAR11M S6

CS2 Data Filename: 07MAR11M S4 CS5 Data Filename: 07MAR11M S7

Labeled Compounds	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
13C-2,3,7,8-TCDD	1.00	1.09	1.07	1.00	1.01	1.01	1.03	3.69
13C-1,2,3,7,8-PeCDD	1.03	1.19	1.04	0.94	0.93	0.94	1.01	9.97
13C-1,2,3,4,7,8-HxCDD	1.20	1.13	1.22	1.18	1.22	1.19	1.19	2.78
13C-1,2,3,6,7,8-HxCDD	0.92	0.89	0.98	0.95	0.92	0.95	0.94	3.41
13C-1,2,3,4,6,7,8-HpCDD	0.85	0.84	0.88	0.81	0.80	0.79	0.83	4.23
13C-OCDD	0.62	0.67	0.68	0.58	0.55	0.55	0.61	9.50
13C-2,3,7,8-TCDF	0.96	1.03	1.02	0.96	0.96	0.94	0.98	3.84
13C-1,2,3,7,8-PeCDF	0.80	0.97	0.87	0.79	0.77	0.78	0.83	9.66
13C-2,3,4,7,8-PeCDF	0.79	0.95	0.83	0.75	0.77	0.74	0.80	9.70
13C-1,2,3,4,7,8-HxCDF	1.80	1.56	1.84	1.92	1.94	1.97	1.84	8.15
13C-1,2,3,6,7,8-HxCDF	2.28	2.03	2.31	2.33	2.38	2.41	2.29	5.90
13C-2,3,4,6,7,8-HxCDF	1.86	1.66	1.89	1.90	1.92	1.94	1.86	5.48
13C-1,2,3,7,8,9-HxCDF	1.96	1.94	2.10	1.96	1.96	1.98	1.98	3.04
13C-1,2,3,4,6,7,8-HpCDF	0.99	0.95	1.04	0.97	0.98	0.99	0.99	2.88
13C-1,2,3,4,7,8,9-HpCDF	0.77	0.80	0.82	0.74	0.73	0.73	0.77	5.17
13C-OCDF	1.13	1.30	1.30	1.12	1.06	1.07	1.17	9.46
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.68	0.81	0.75	0.68	0.74	0.71	0.73	6.57

Analyst: 6Date: 3/8/11

## USEPA - ITD

## FORM 3C

## PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

CS0 Data Filename: 07MAR11M S1 CS3 Data Filename: 07MAR11M S5

CS1 Data Filename: 07MAR11M S3 CS4 Data Filename: 07MAR11M S6

CS2 Data Filename: 07MAR11M S4 CS5 Data Filename: 07MAR11M S7

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
2,3,7,8-TCDD	M/M+2	0.83	0.81	0.80	0.83	0.79	0.86	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.44	1.44	1.43	1.37	1.41	1.37	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.27	1.28	1.27	1.30	1.25	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.27	1.27	1.27	1.27	1.31	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.24	1.27	1.27	1.26	1.26	1.25	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.90	0.90	0.89	0.89	0.89	0.90	0.88-1.20
OCDD	M+2/M+4	0.94	0.94	0.91	0.95	0.94	1.00	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.67	0.67	0.67	0.66	0.69	0.68	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.66	1.65	1.67	1.69	1.64	1.61	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.64	1.63	1.64	1.64	1.61	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.20	1.20	1.20	1.19	1.23	1.22	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.22	1.20	1.20	1.21	1.22	1.18	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.20	1.19	1.20	1.19	1.22	1.20	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.21	1.21	1.22	1.21	1.19	1.18	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.04	1.04	1.03	1.04	1.02	1.02	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	1.04	1.04	1.02	1.03	1.03	0.88-1.20
OCDF	M+2/M+4	0.91	0.92	0.93	0.94	0.91	0.90	0.76-1.02

Analyst: 8Date: 3/8/11







## USEPA - ITD

## FORM 4B

## PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 07MAR11M Sam:1

Analysis Date: 7-MAR-11 11:58:32

LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.67	0.65-0.89	y	97.6	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.70	1.32-1.78	y	101	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	101	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	98.3	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.06	0.88-1.20	y	103	72.0 - 138
13C-OCDD	M+2/M+4	1.00	0.76-1.02	y	203	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.86	0.65-0.89	y	98.0	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.64	1.32-1.78	y	96.5	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.32-1.78	y	97.7	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.44	0.43-0.59	y	97.8	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.44	0.43-0.59	y	99.5	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.44	0.43-0.59	y	99.9	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.44	0.43-0.59	y	98.7	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.48	0.37-0.51	y	100	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.47	0.37-0.51	y	100	77.0 - 129
13C-OCDF	M+2/M+4	0.91	0.76-1.02	y	194	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.35	7.80 - 12.8

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) No ion abundance ratio; report concentration found.

Analyst: JDate: 3/8/11



## USEPA - ITD

## FORM 6A

## PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 7-MAR-11 11:58:32 CS3 or VER Data Filename: 07MAR11M Sam:1

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052
13C-2,3,7,8-TCDD		1.022	0.976-1.043
13C-2,3,7,8-TCDF		0.994	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.224	0.923-1.303

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

Analyst: 

Date: 3/8/11

## USEPA - ITD

FORM 6B

## PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 7-MAR-11 11:58:32 CS3 or VER Data Filename: 07MAR11M Sam:1

NATIVE ANALYTES	RETENTION TIME		RRT	RRT
	REFERENCE			QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD		1.001	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD		1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD		1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF		1.000	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF		1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF		1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF		1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD		1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF		1.000	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF		1.001	0.999-1.001
OCDD	13C-OCDD		1.001	0.999-1.001
OCDF	13C-OCDF		1.000	0.999-1.001
LABELED COMPOUNDS				
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD		0.984	0.977-1.000
13C-1,2,3,6,7,8-HxCDD			0.988	0.981-1.003
13C-1,2,3,4,7,8-HxCDF			0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF			0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF			0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF			1.014	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD			1.127	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF			1.079	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF			1.151	1.057-1.154
13C-OCDD			1.269	1.032-1.311
13C-OCDF			1.279	1.000-1.311

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

Analyst: 8Date: 3/8/11



Frontier Analytical Laboratory - Acquisition Log

Run Name:07MAR11M

Instrument: FAL3

GC: DB5

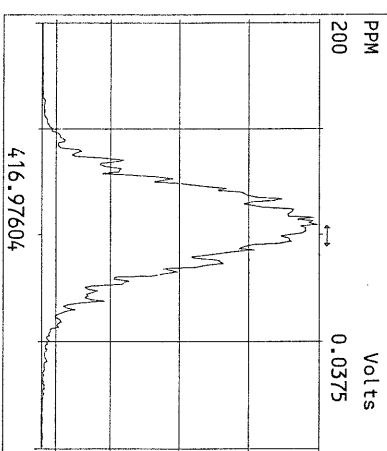
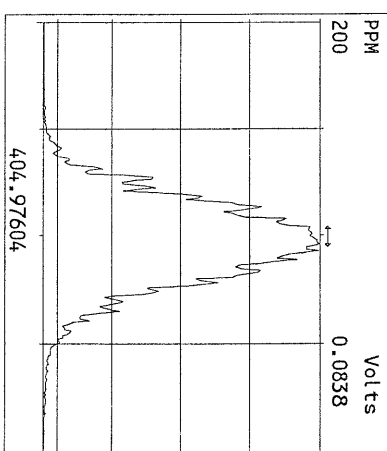
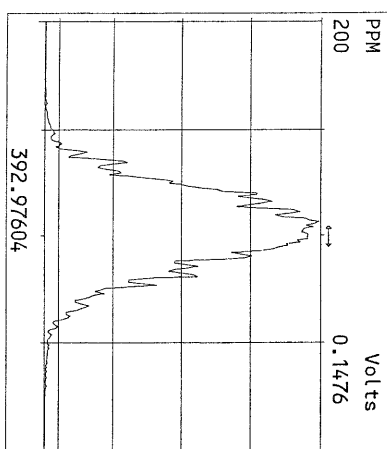
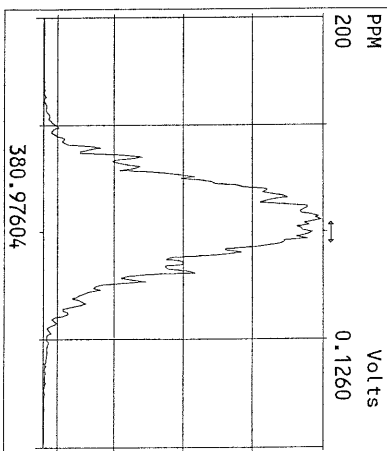
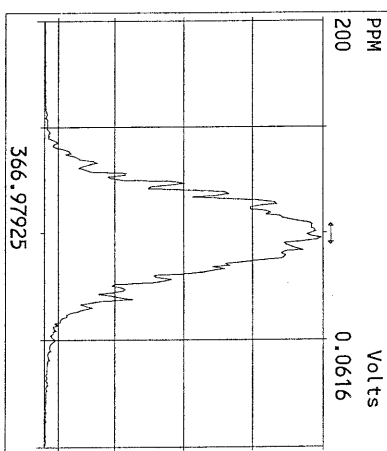
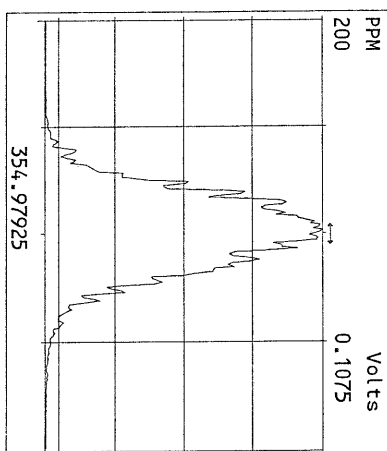
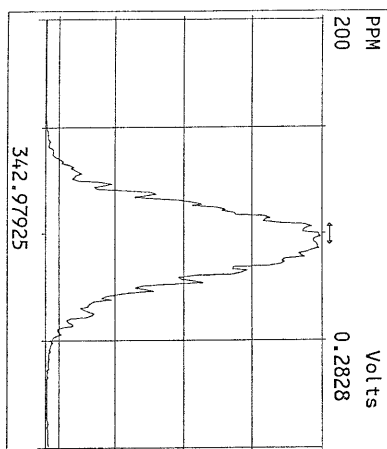
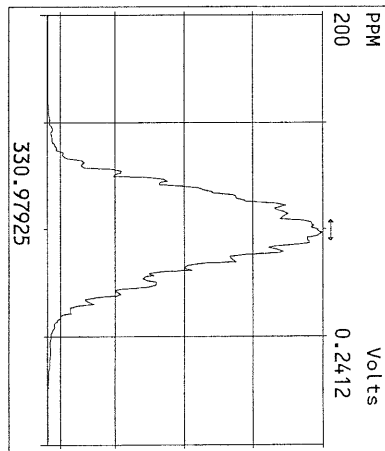
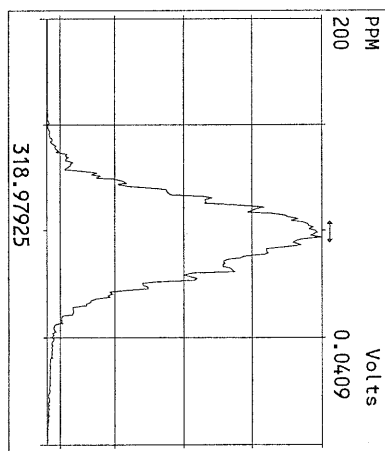
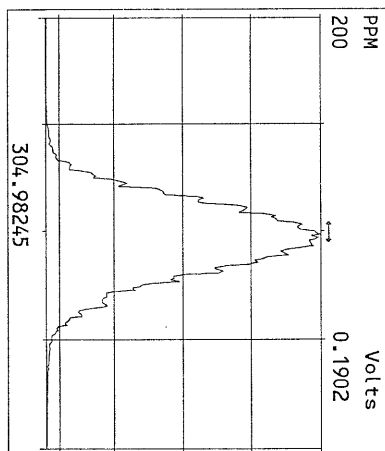
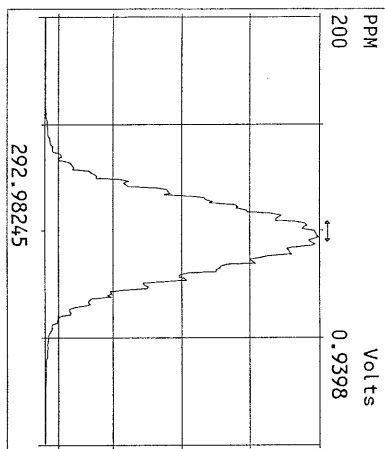
Experiment:OCDD

Data File S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
07MAR11M 1	ST030711M3	1613 CS3 100511J	7-MAR-11 11:58:32	NA	NA	BS
07MAR11M 2	QC030711M1	C14QC	7-MAR-11 12:53:51	NA	NA	BS
07MAR11M 3	ST030711M5	1613 CS5 100511L	7-MAR-11 13:49:10	NA	NA	BS
07MAR11M 4	ST030711M4	1613 CS4 100511K	7-MAR-11 14:44:29	NA	NA	BS
07MAR11M 5	ST030711M2	1613 CS2 100511I	7-MAR-11 15:39:48	NA	NA	BS
07MAR11M 6	ST030711M1	1613 CS1 100511H	7-MAR-11 16:35:10	NA	NA	BS
07MAR11M 7	ST030711M0	1613 CS0 100511G	7-MAR-11 17:30:33	NA	NA	BS
07MAR11M 8	ST030711M-1	1613 CS-1 100511M	7-MAR-11 18:25:48	NA	NA	BS
07MAR11M 9	ST030711M6	1613 CS3 100511J	7-MAR-11 19:21:07	ST030711M6	ST030711M7	BS
07MAR11M 10	2227-001-0001-OPR	OPR	7-MAR-11 20:16:26	ST030711M6	ST030711M7	BS
07MAR11M 11	2227-001-0001-MB	Method Blank	7-MAR-11 21:11:46	ST030711M6	ST030711M7	BS
07MAR11M 12	6594-001-0001-SA	PA-24-110210	7-MAR-11 22:07:04	ST030711M6	ST030711M7	BS
07MAR11M 13	6594-002-0001-SA	MW-55-110210	7-MAR-11 23:02:22	ST030711M6	ST030711M7	BS
07MAR11M 14	6594-003-0001-SA	MW-62-110210	7-MAR-11 23:57:37	ST030711M6	ST030711M7	BS
07MAR11M 15	6594-004-0001-SA	MW-54-110210	8-MAR-11 00:52:57	ST030711M6	ST030711M7	BS
07MAR11M 16	6594-005-0001-SA	PA-17-110211	8-MAR-11 01:48:18	ST030711M6	ST030711M7	BS
07MAR11M 17	6594-006-0001-SA	MW-53-110211	8-MAR-11 02:43:37	ST030711M6	ST030711M7	BS
07MAR11M 18	6594-007-0001-SA	MW-58-110211	8-MAR-11 03:39:00	ST030711M6	ST030711M7	BS
07MAR11M 19	6594-008-0001-SA	MW-51-110211	8-MAR-11 04:34:19	ST030711M6	ST030711M7	BS
07MAR11M 20	6594-009-0001-SA	MW-61-110211	8-MAR-11 05:29:37	ST030711M6	ST030711M7	BS
07MAR11M 21	SB030711M1	Solvent Blank	8-MAR-11 06:25:00	ST030711M6	ST030711M7	BS
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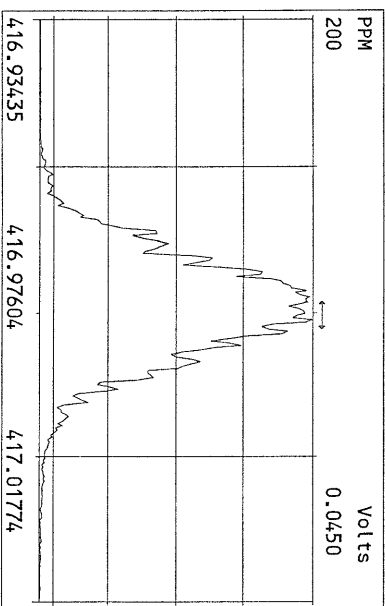
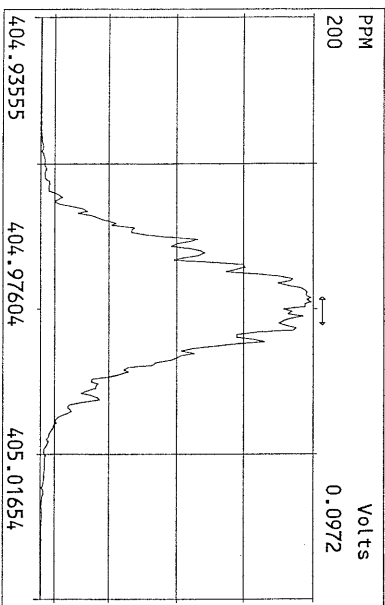
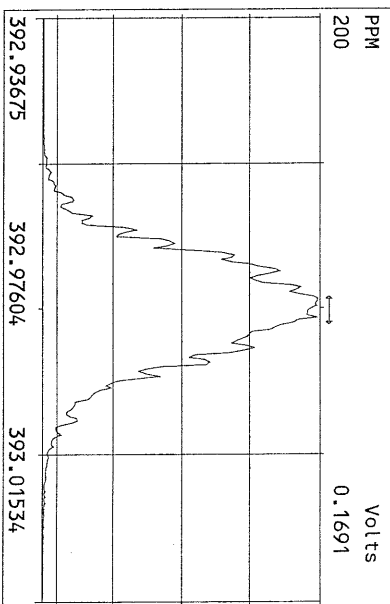
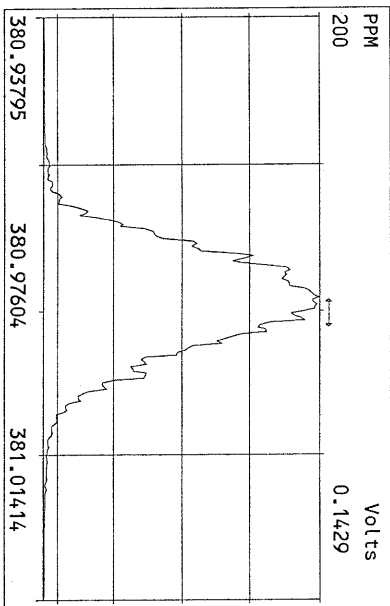
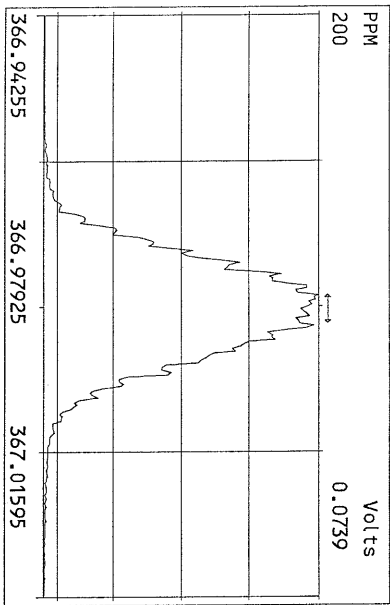
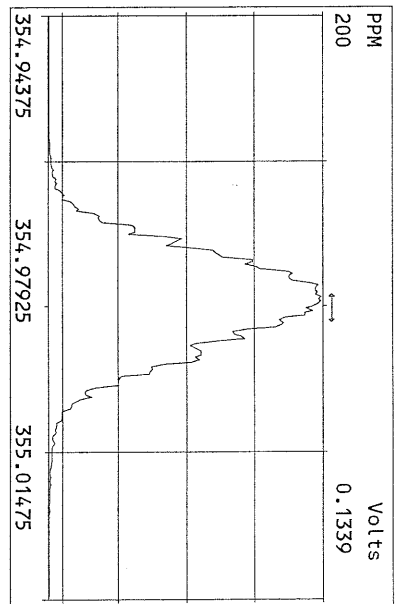
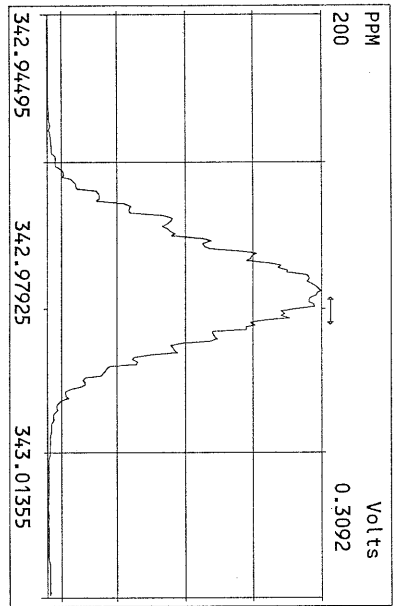
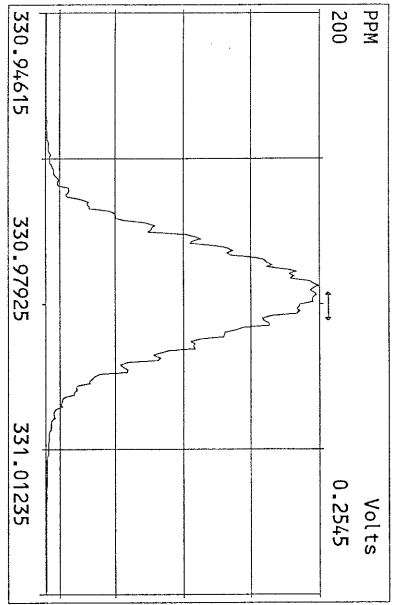
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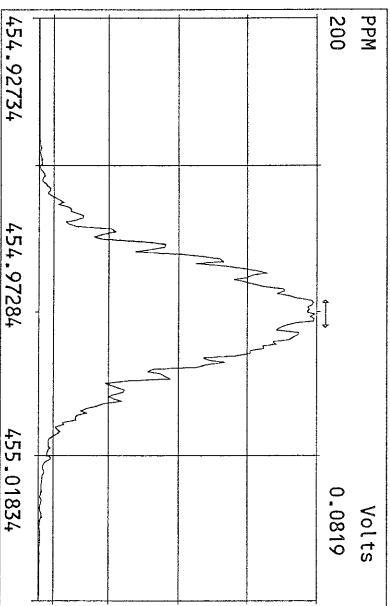
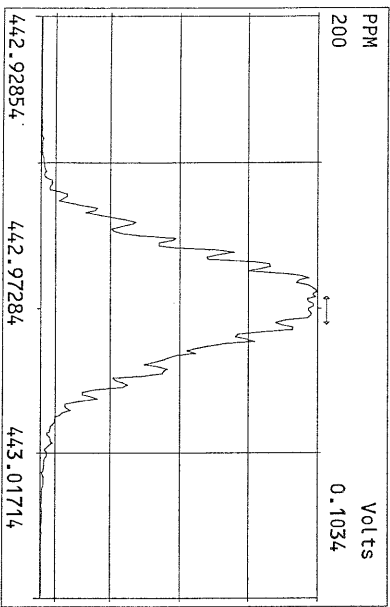
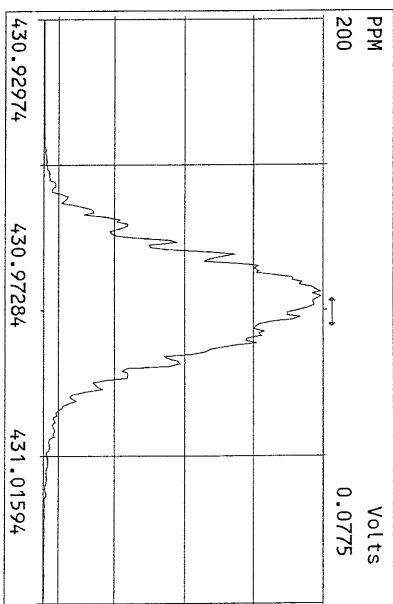
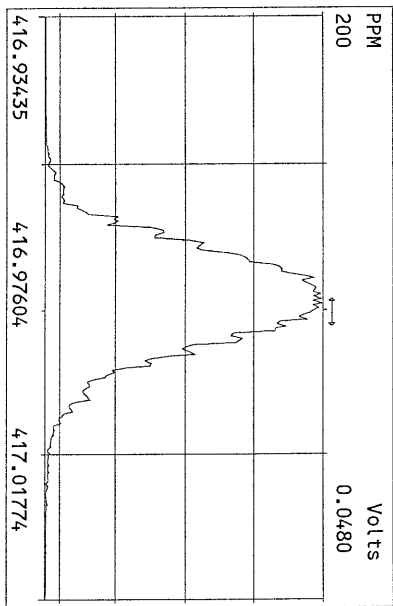
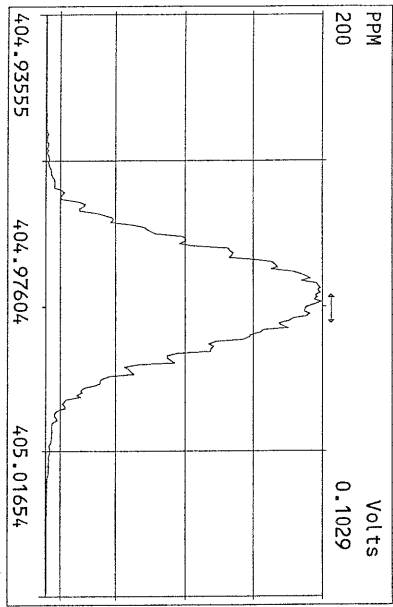
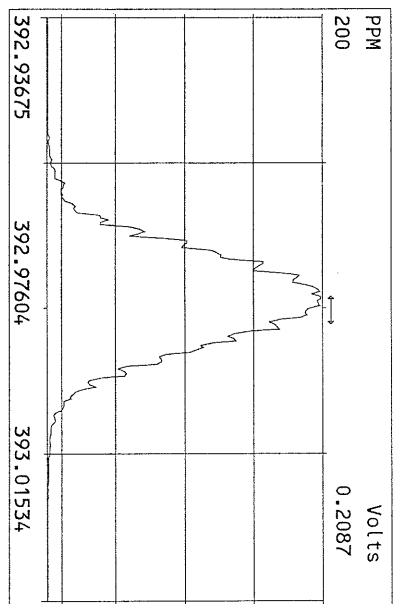
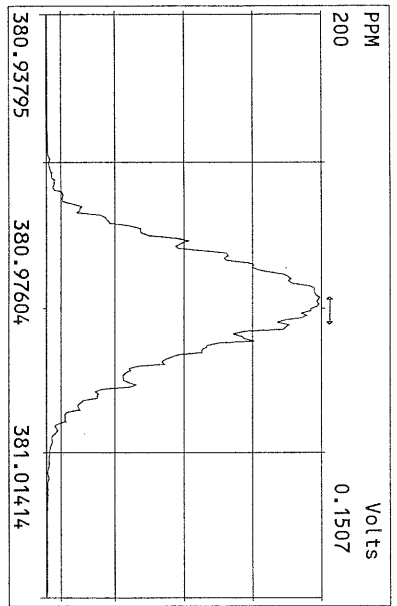
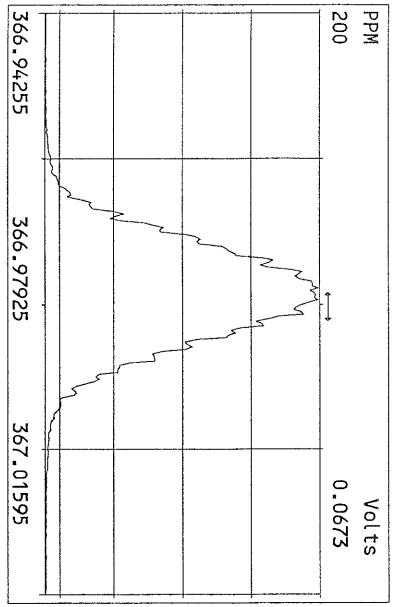
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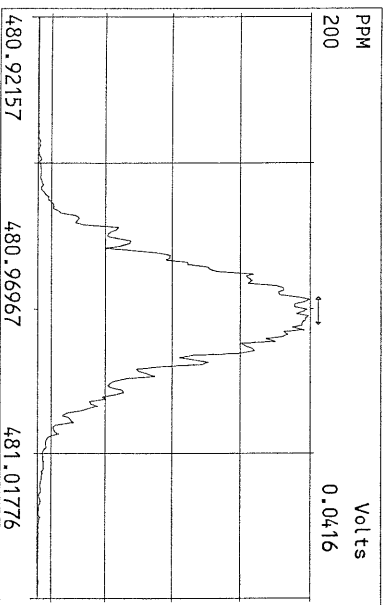
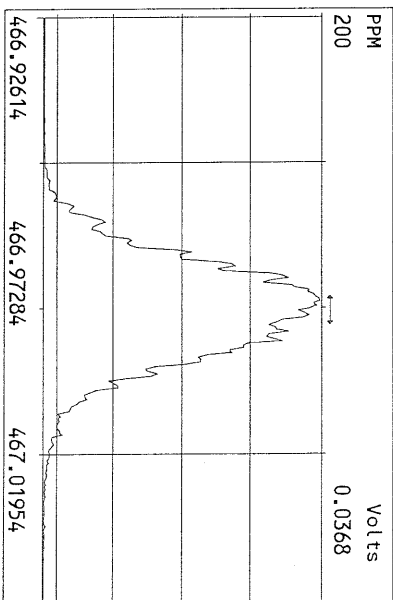
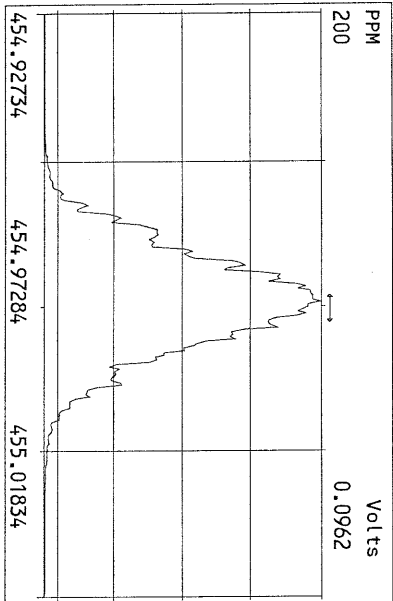
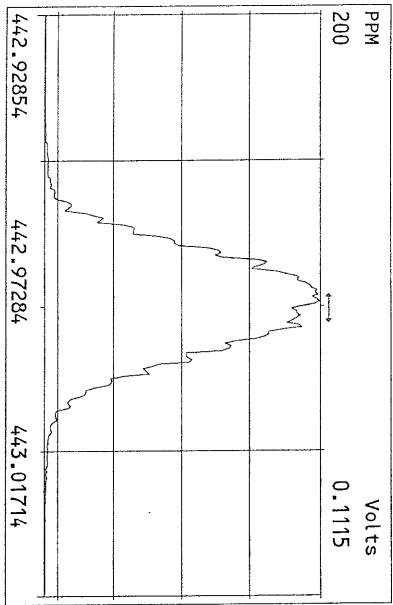
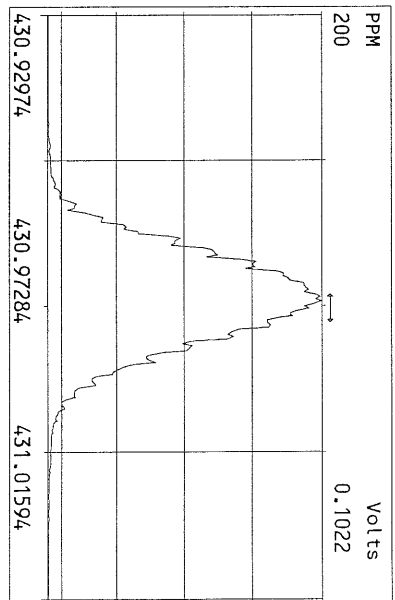
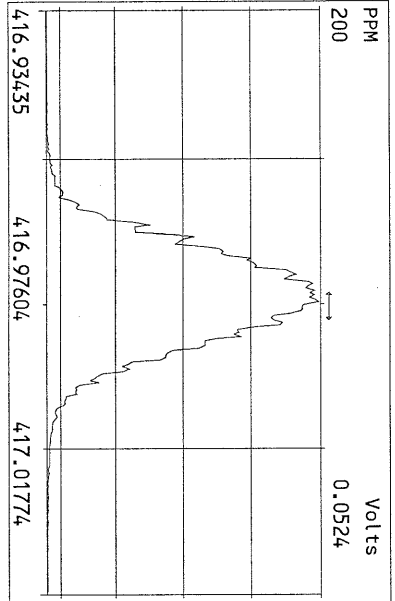
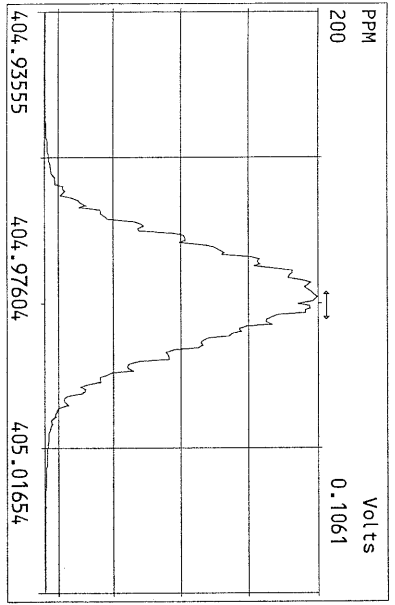
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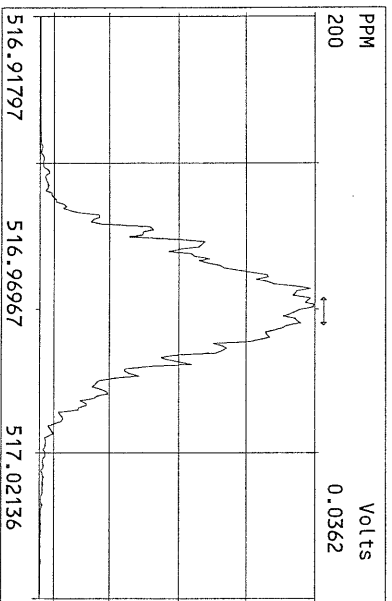
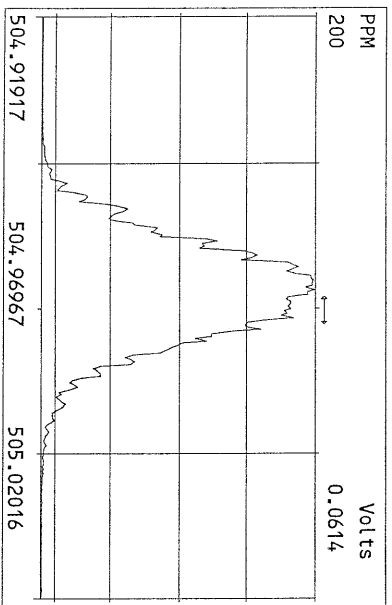
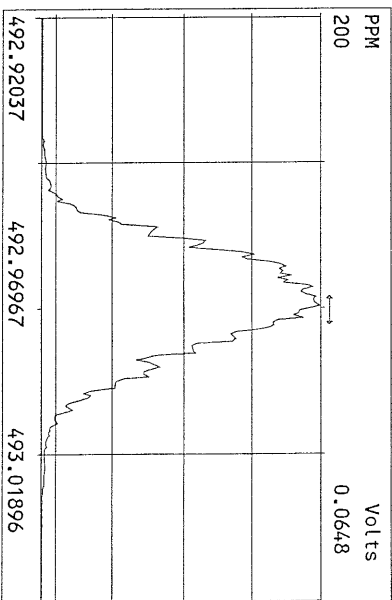
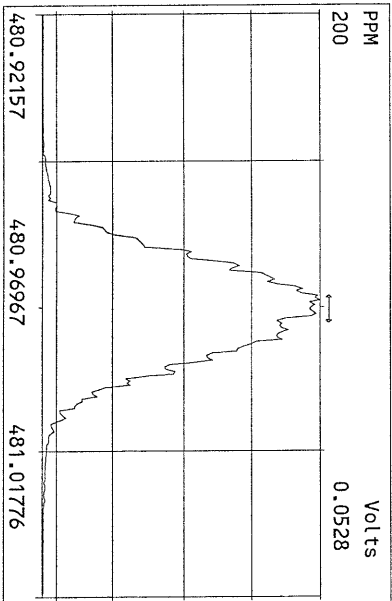
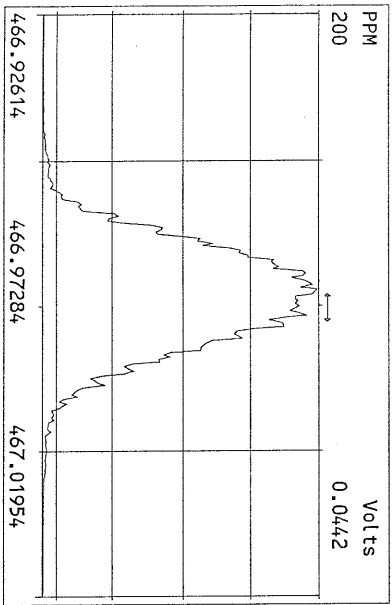
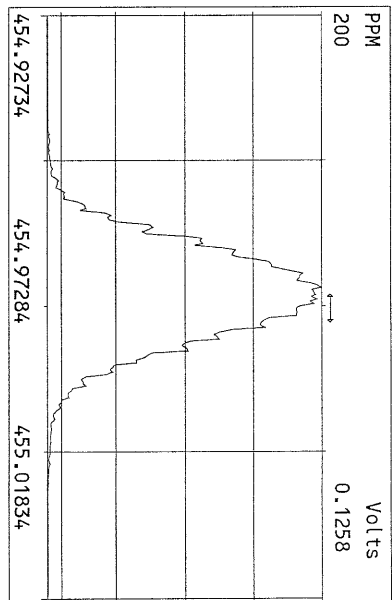
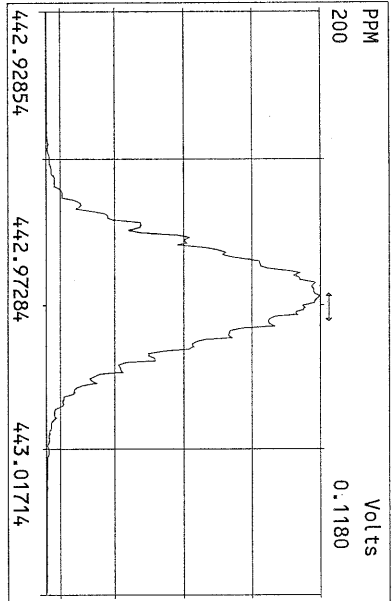
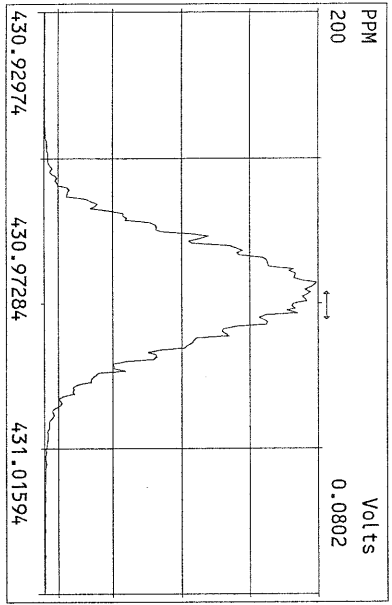




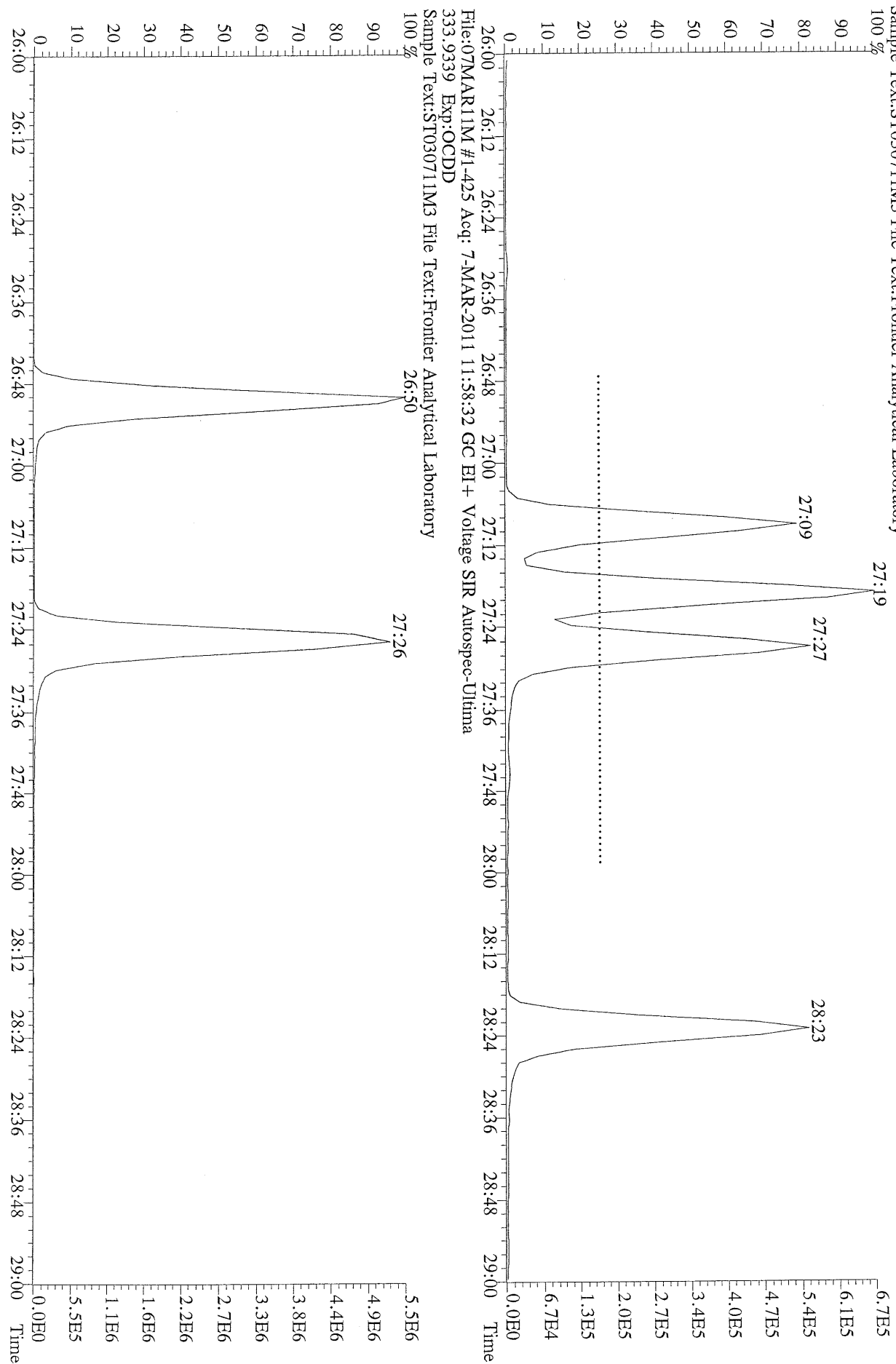








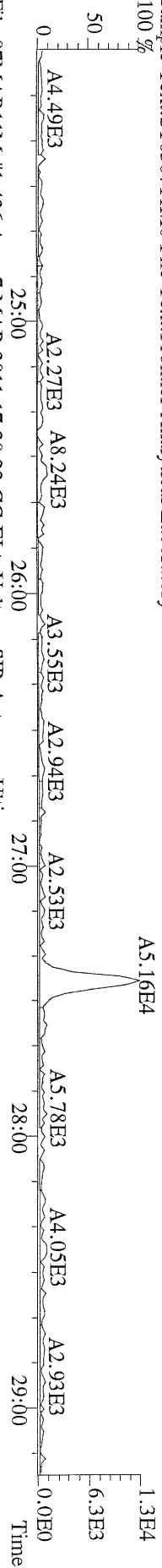
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory  
100 %



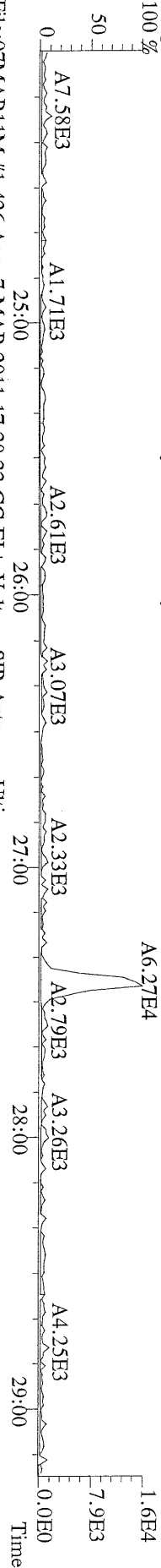
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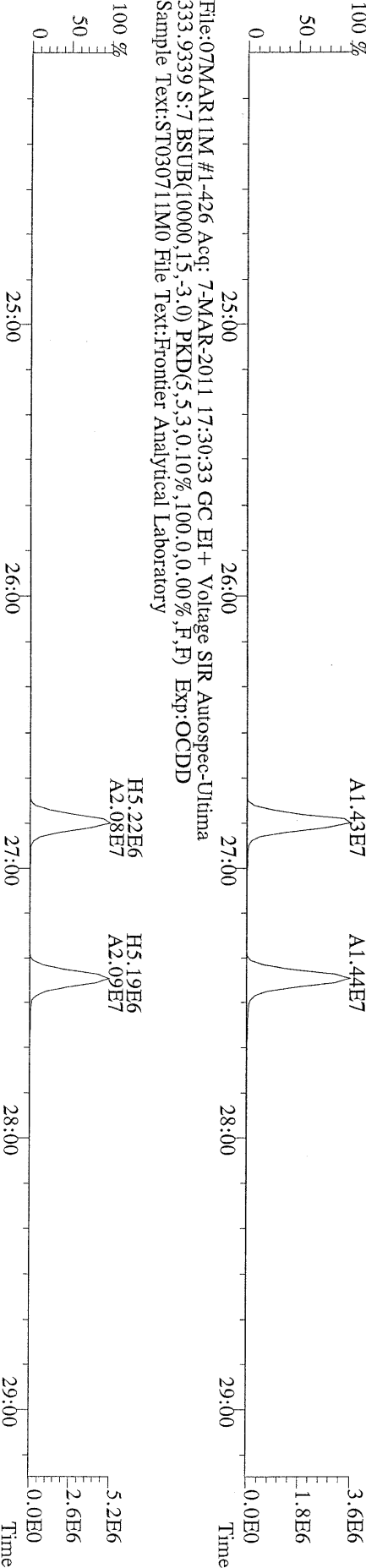
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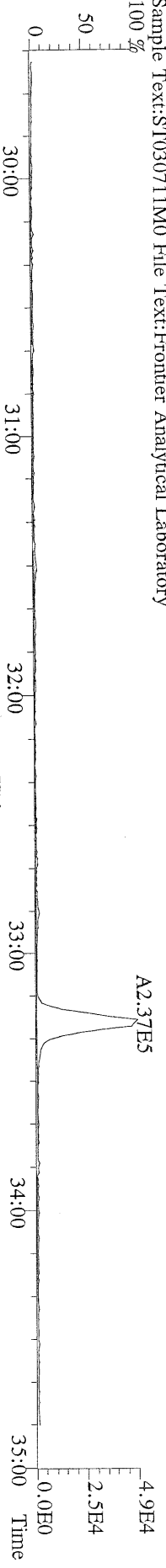
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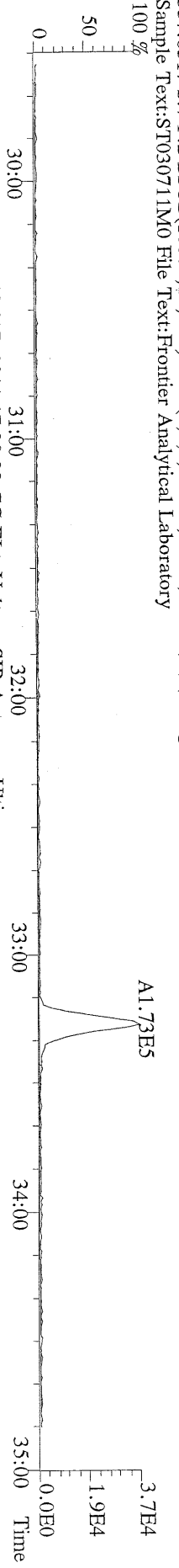
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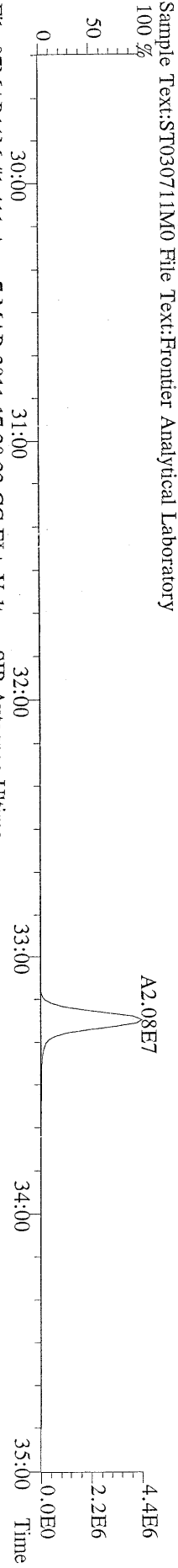
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Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



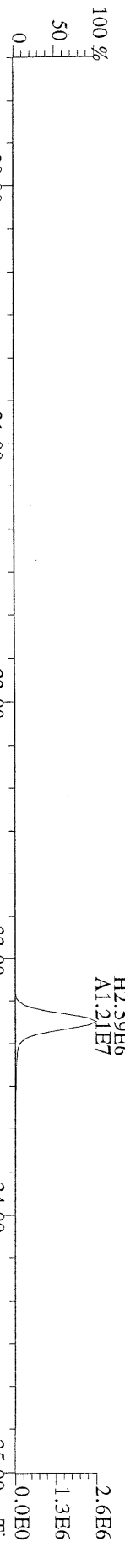
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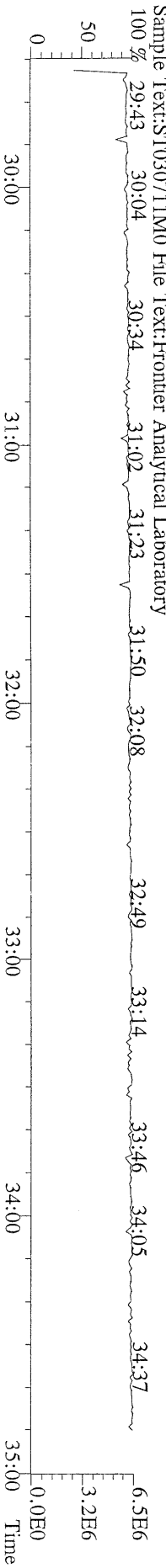
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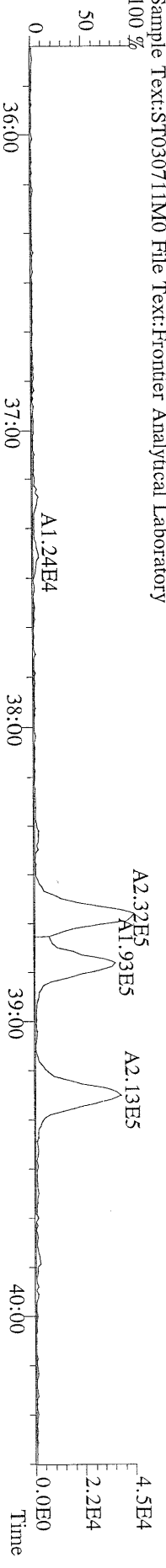
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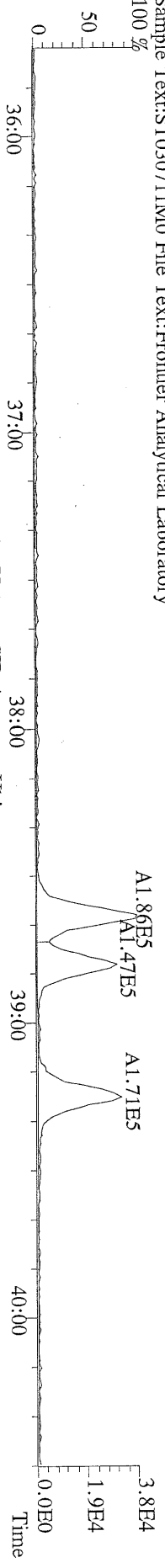
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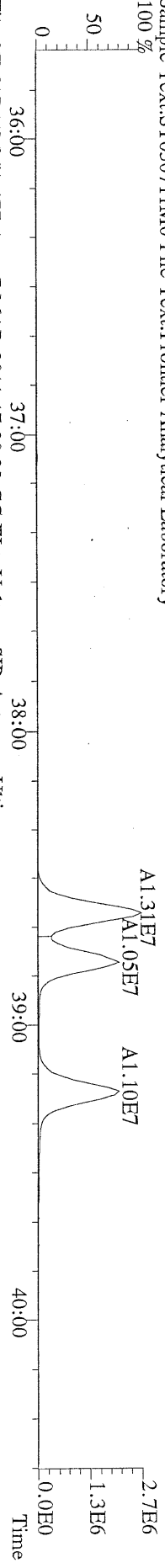
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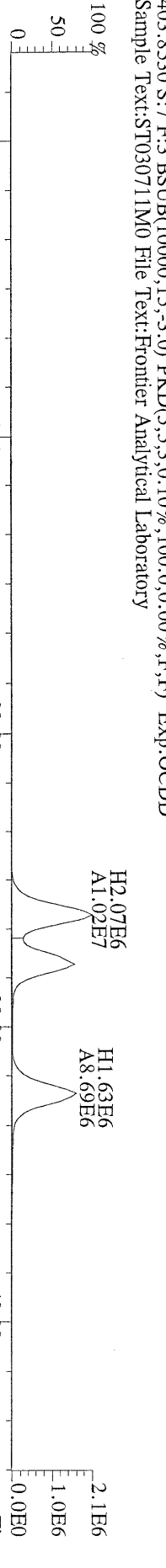
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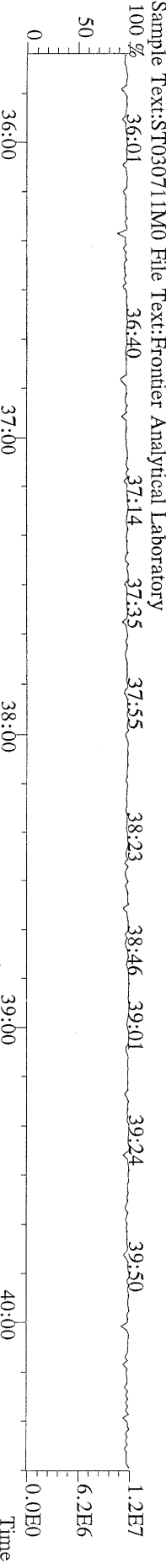
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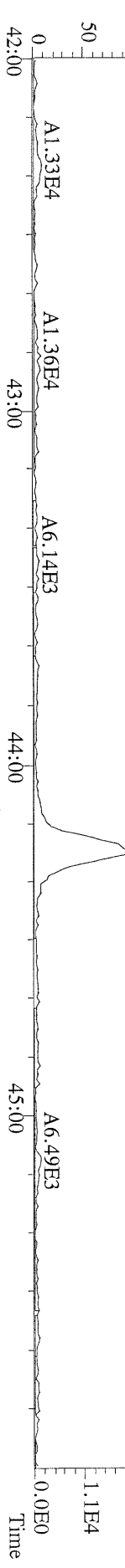


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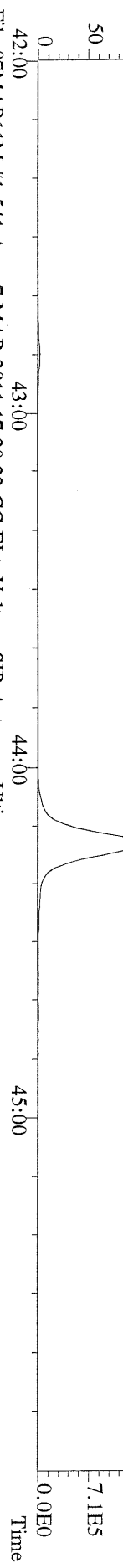
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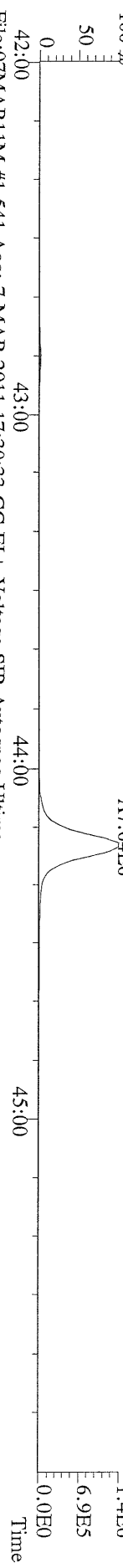
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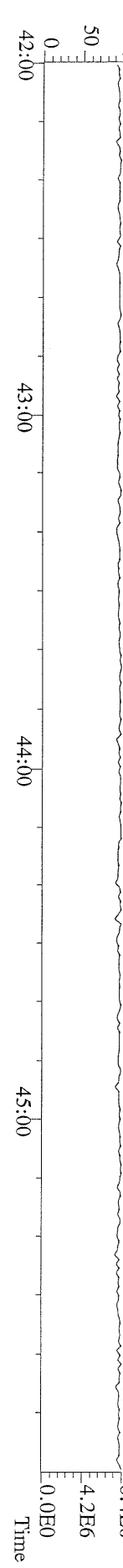
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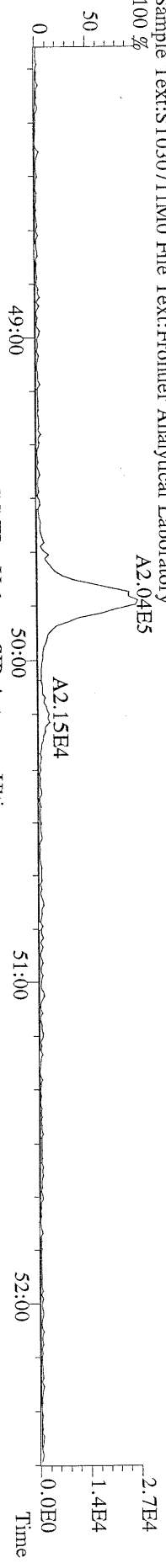
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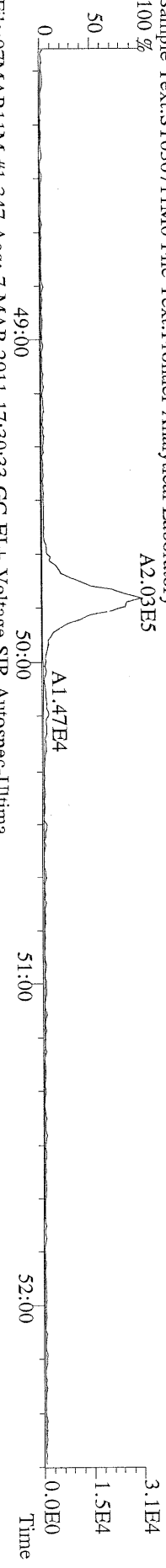
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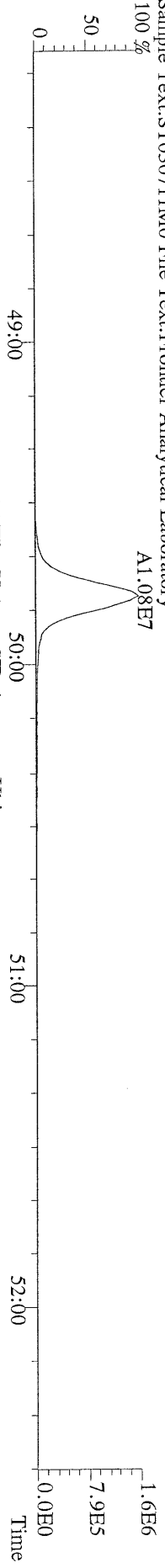
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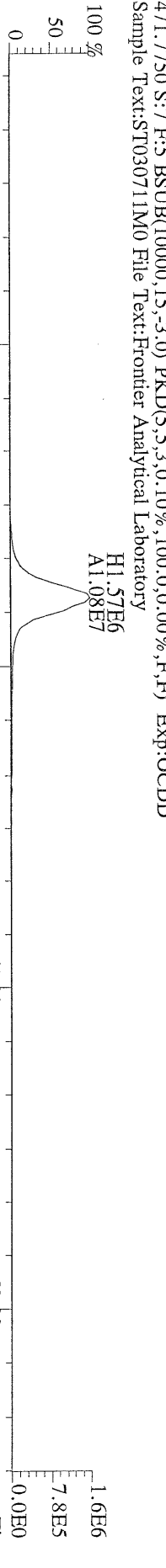
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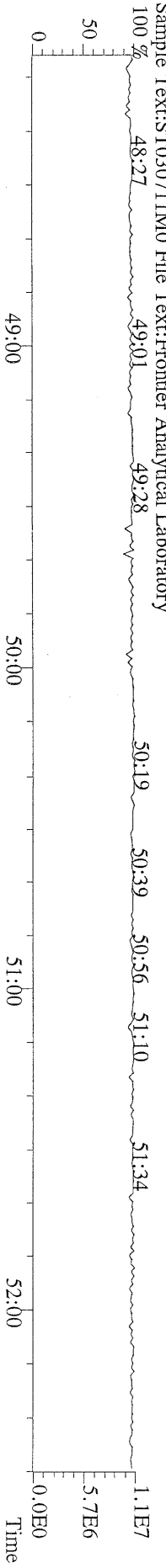
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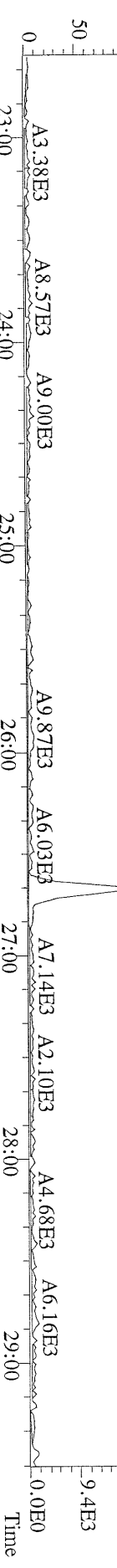
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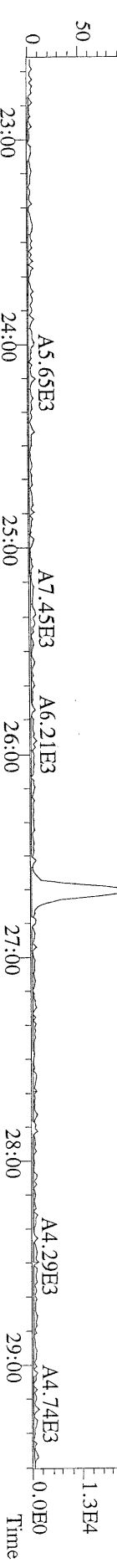
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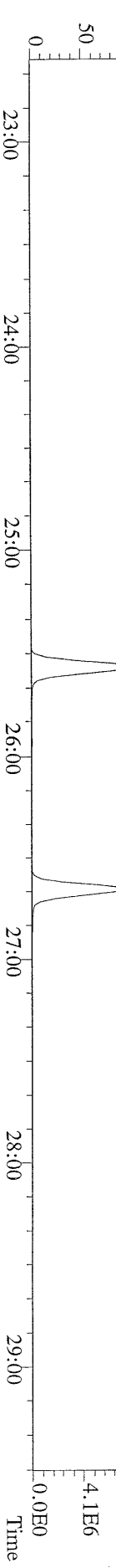
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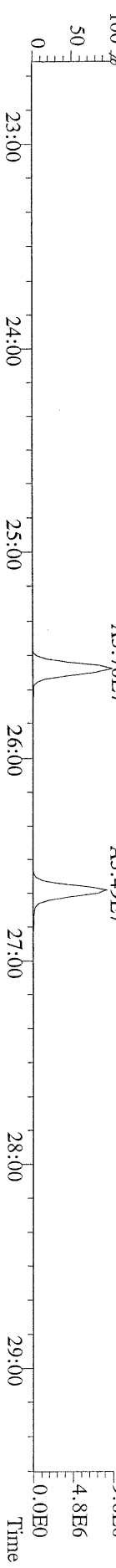
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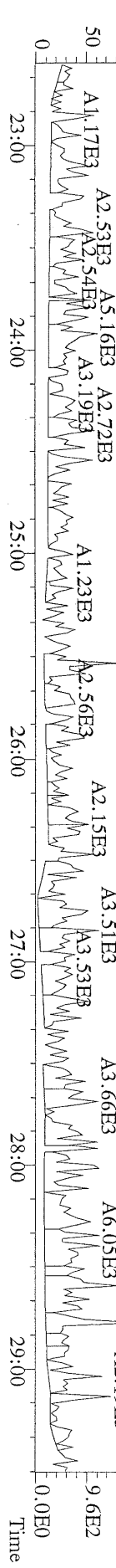
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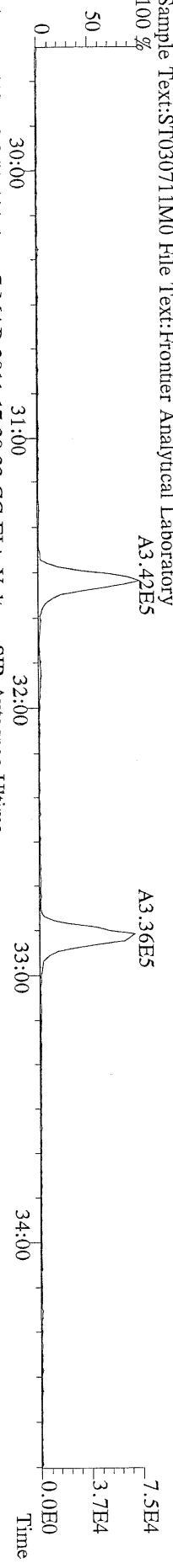


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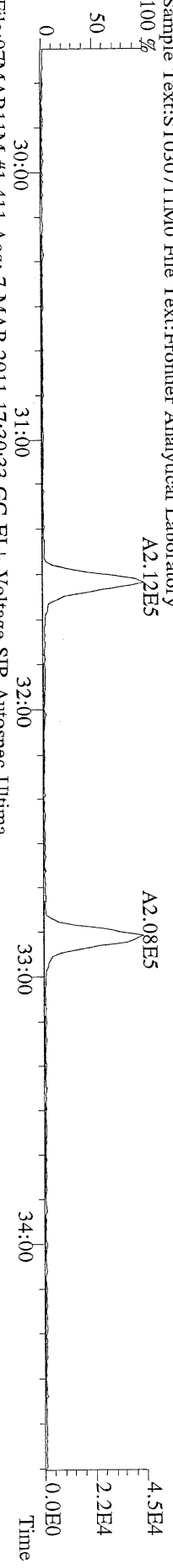




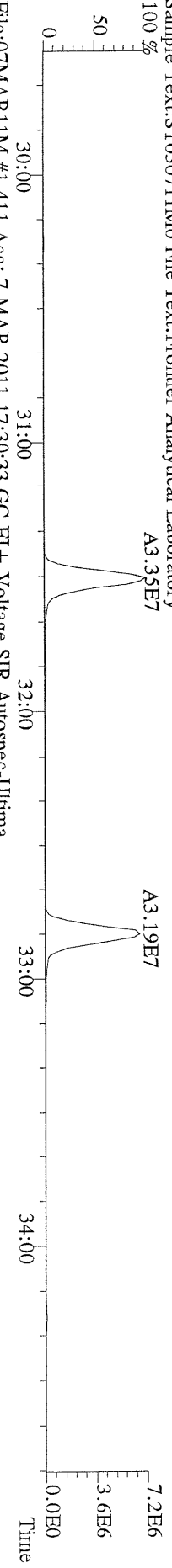
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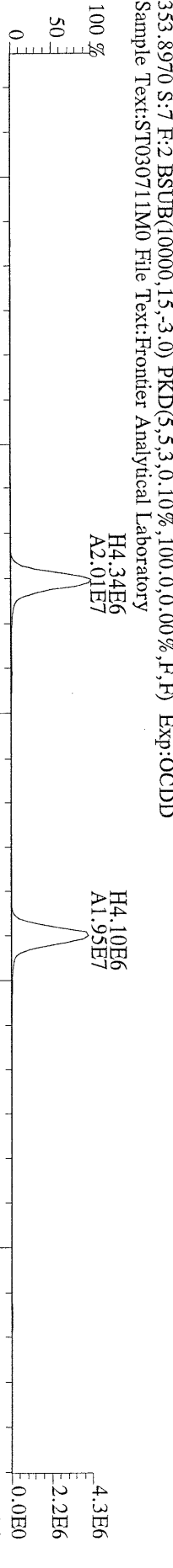
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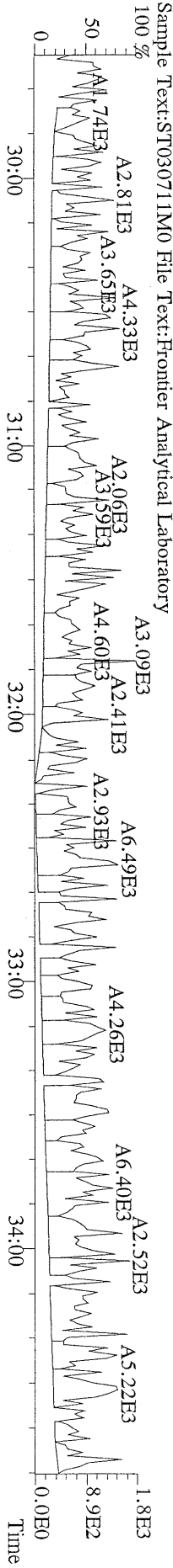
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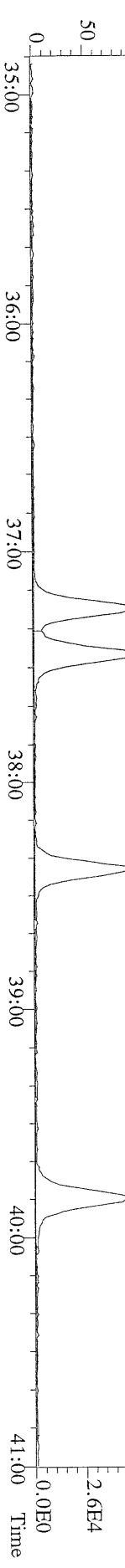
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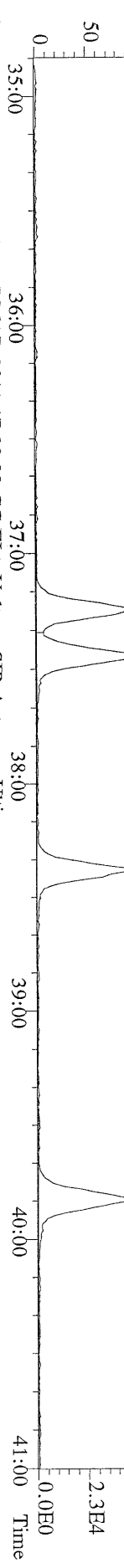
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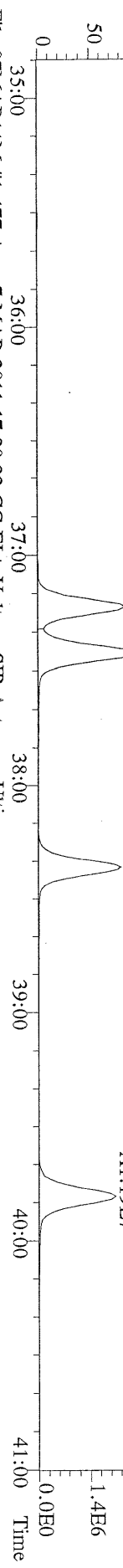
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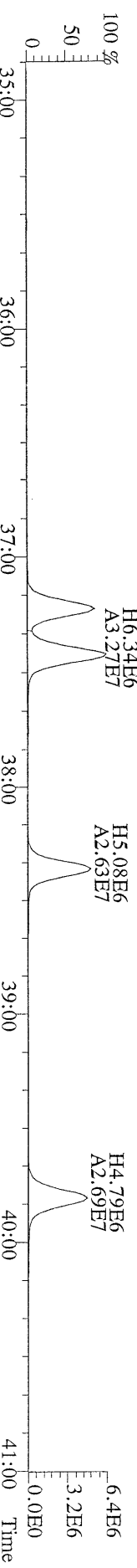
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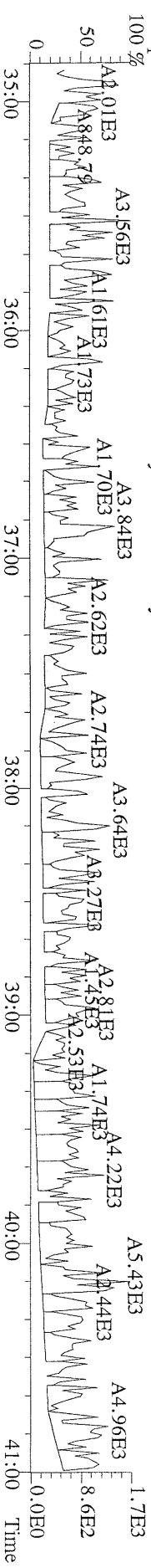
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 Sample Text:ST030711M0 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-477 Acq: 7-MAR-2011 17:30:33 GC EI+ Voltage SIR Autospec-Ultima  
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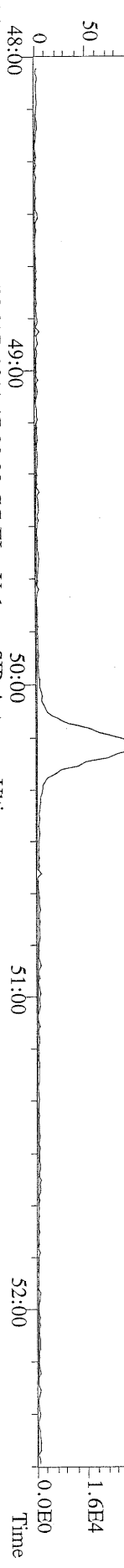




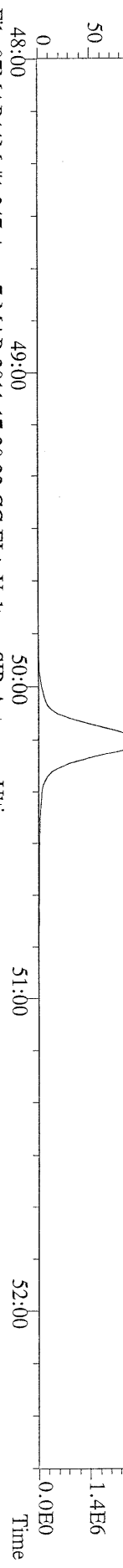
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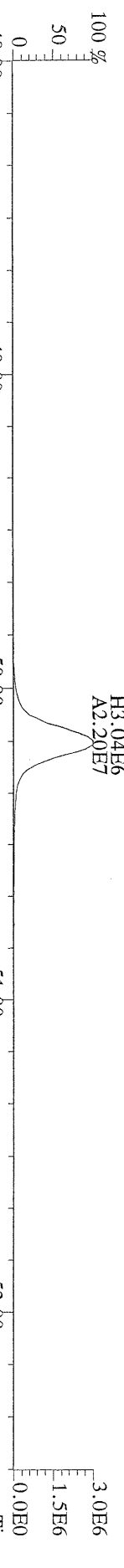
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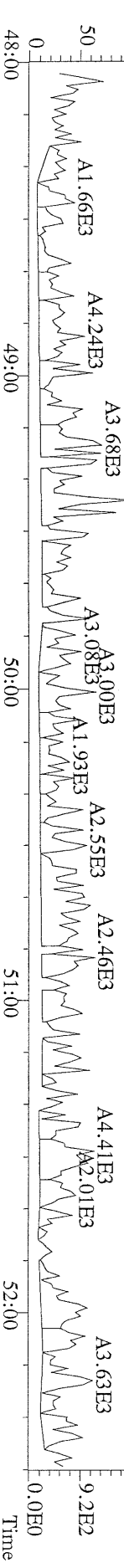
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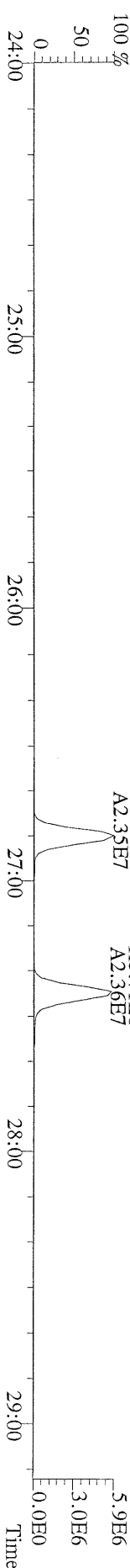
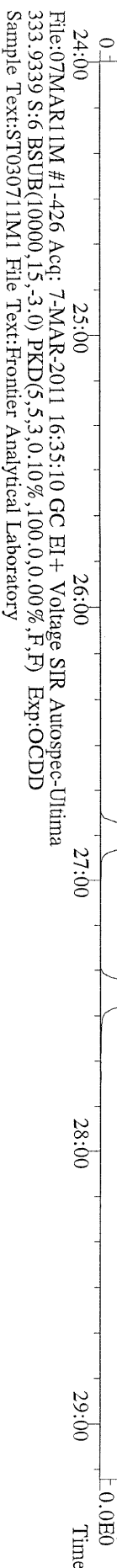
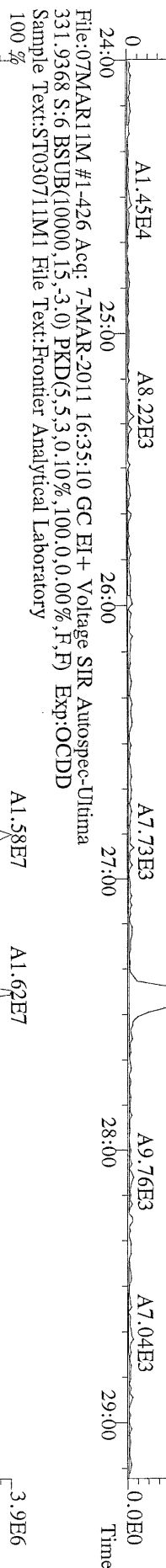
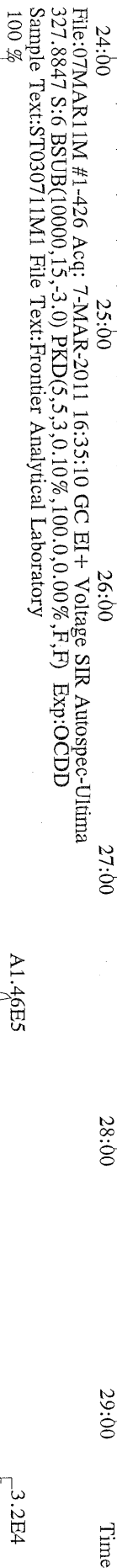
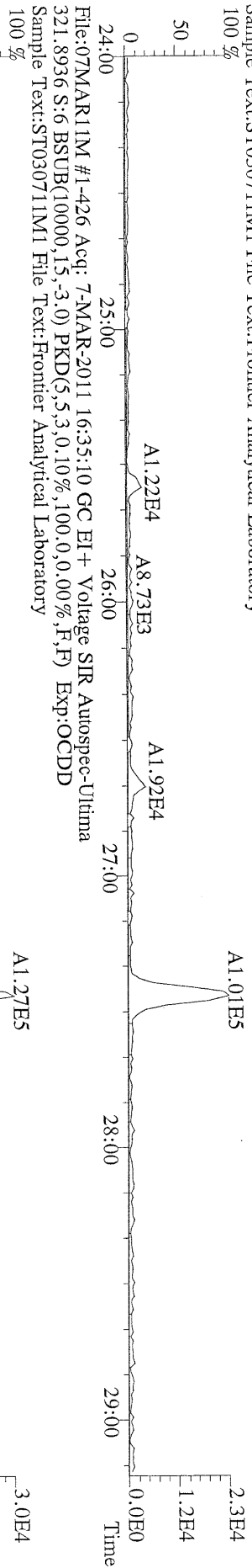


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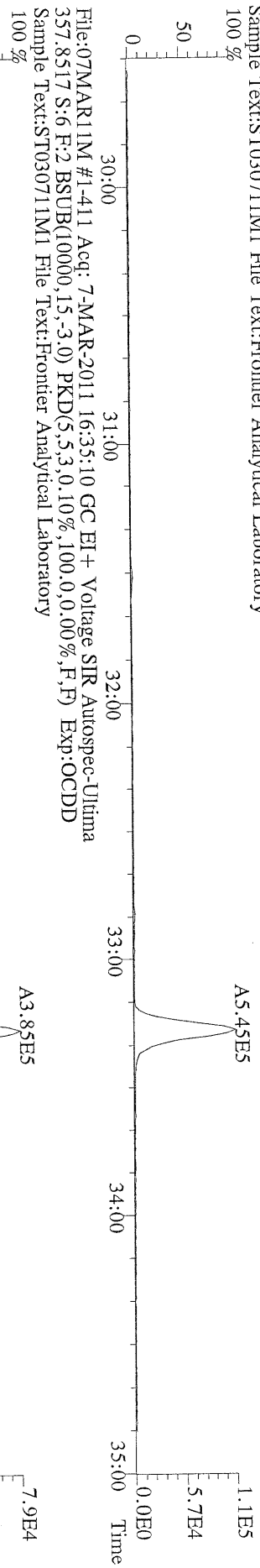




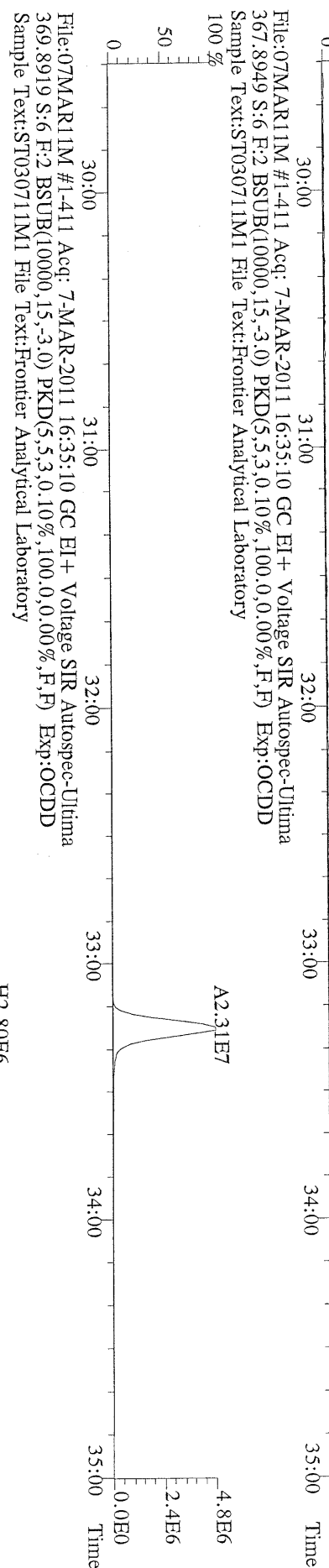
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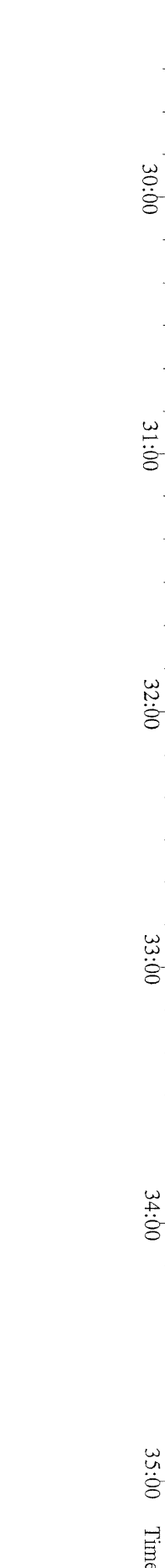
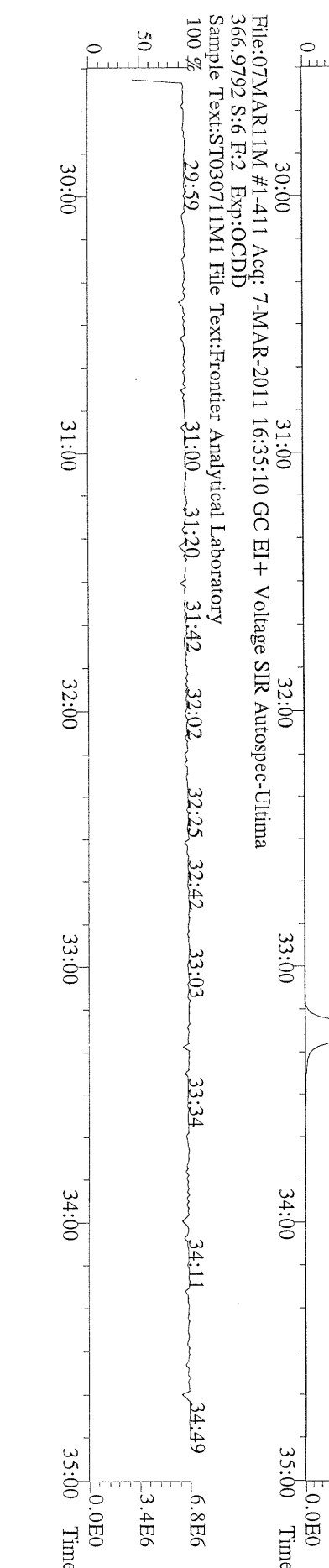
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Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory



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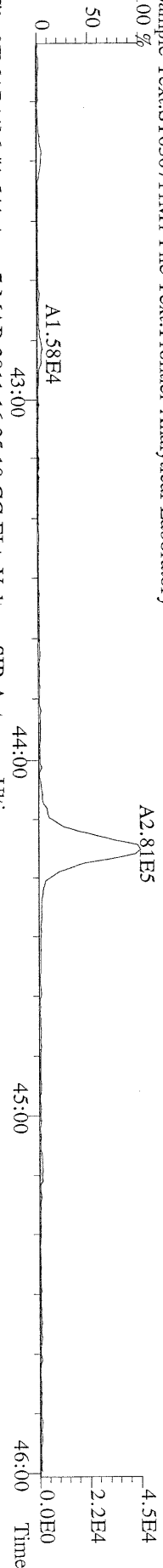


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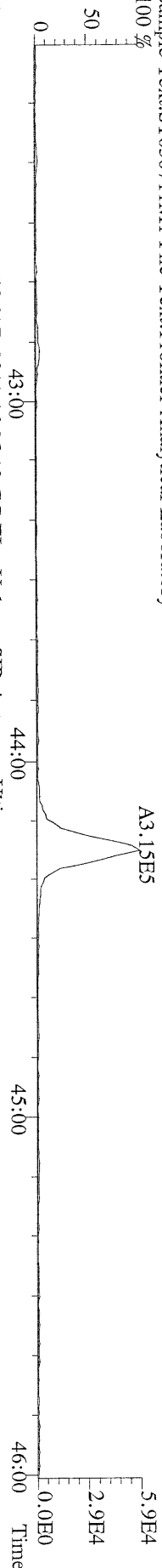




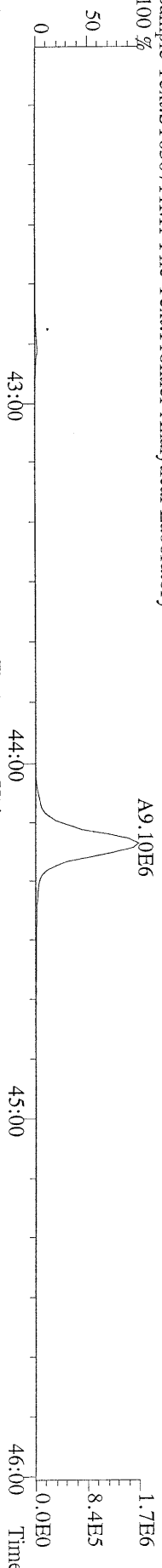
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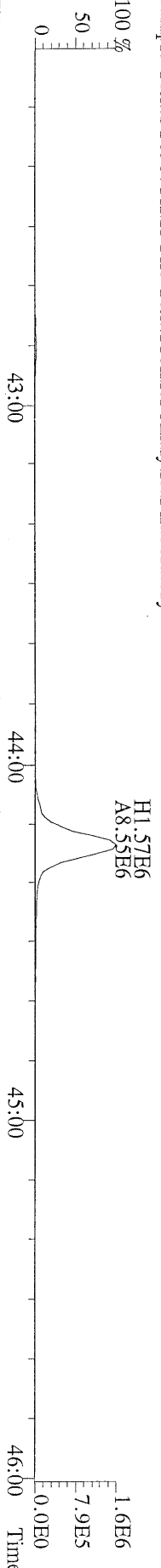
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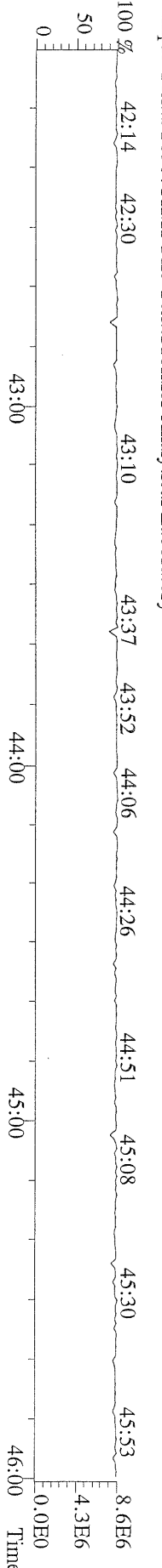
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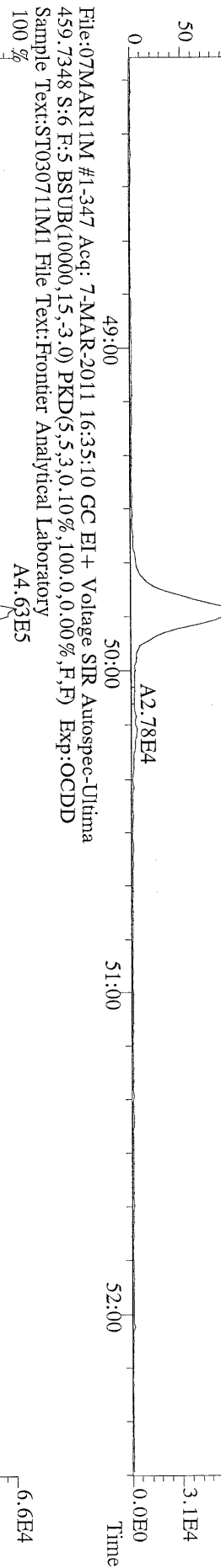
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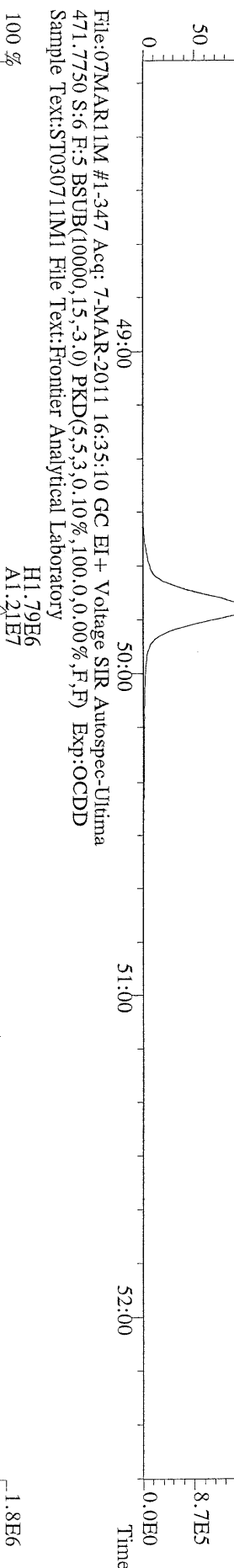
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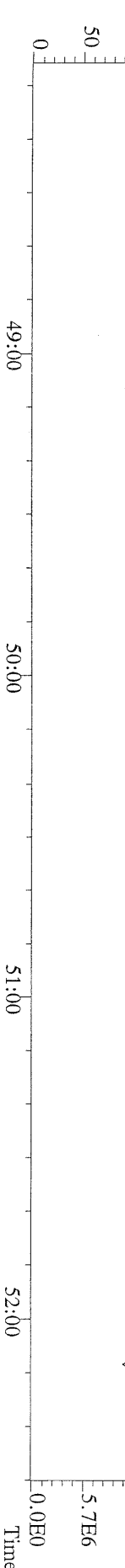
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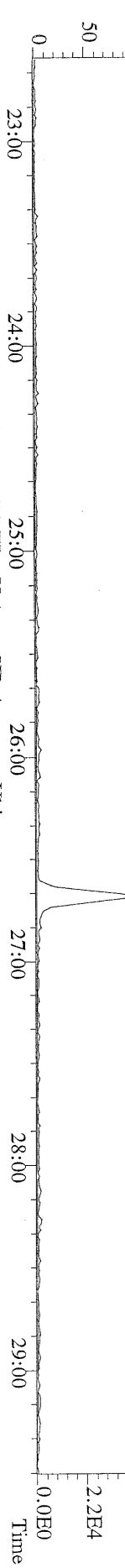
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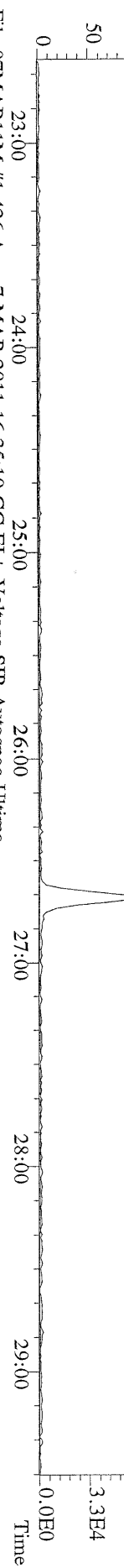
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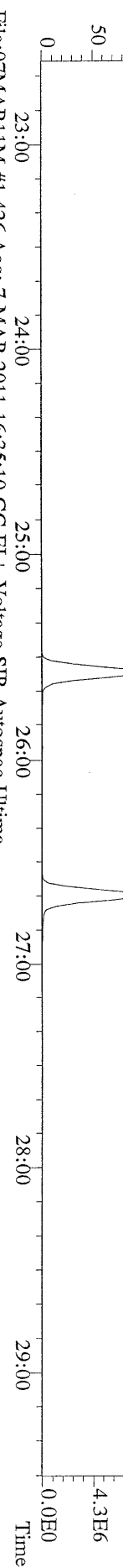
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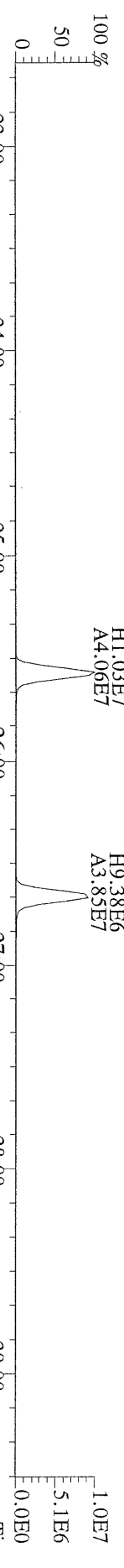
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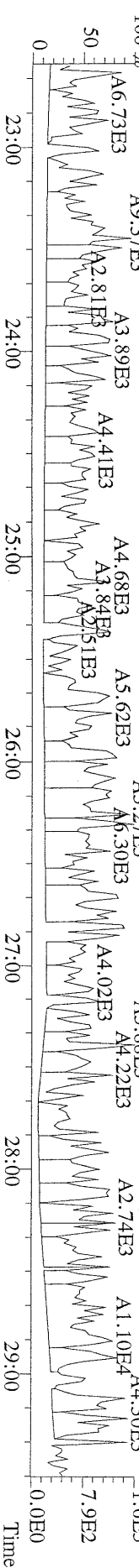
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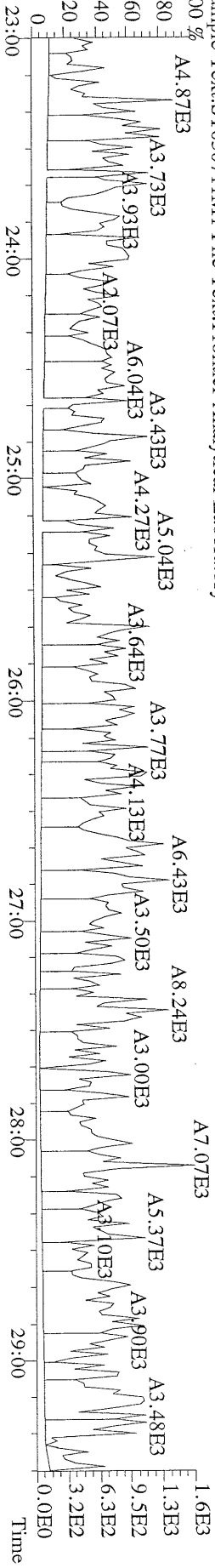
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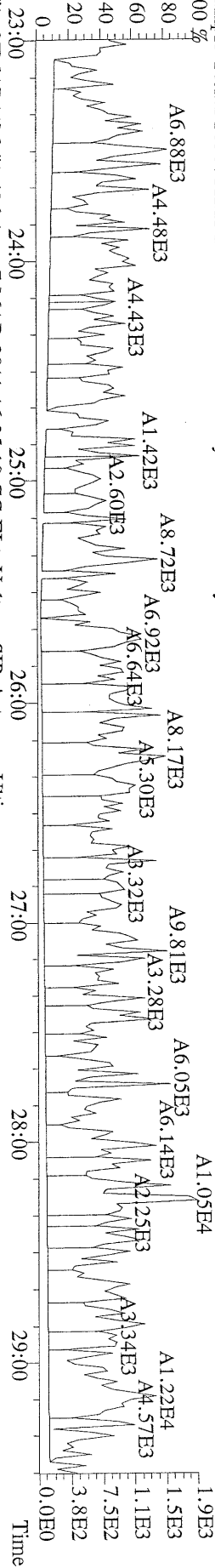
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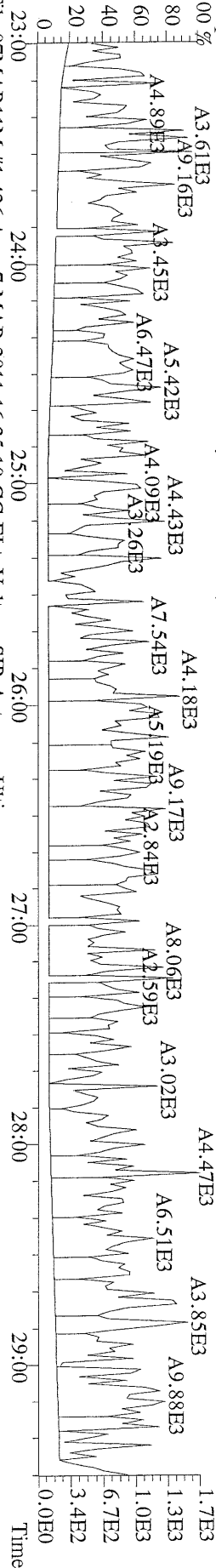
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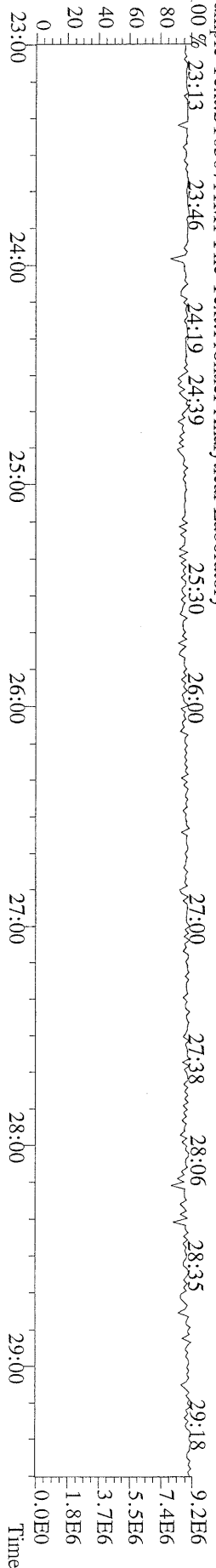
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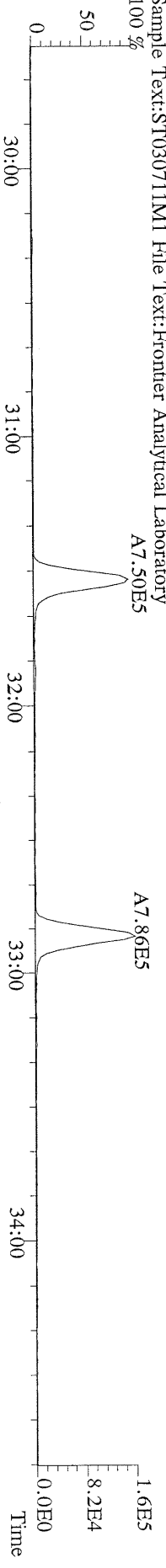
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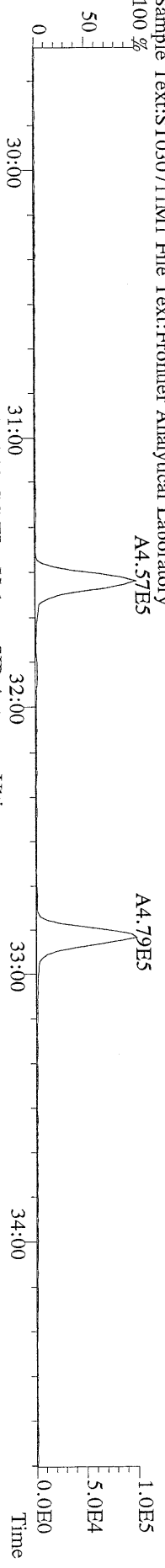
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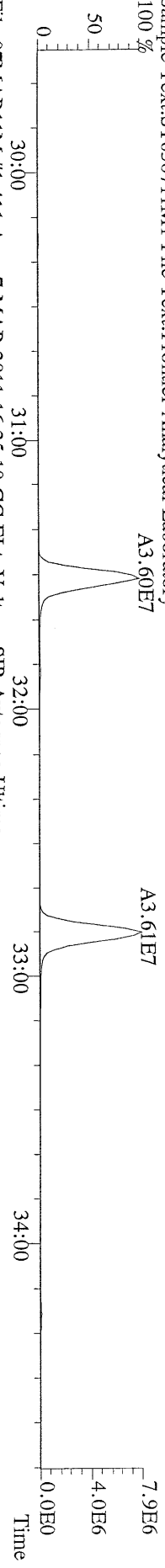
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 100 %



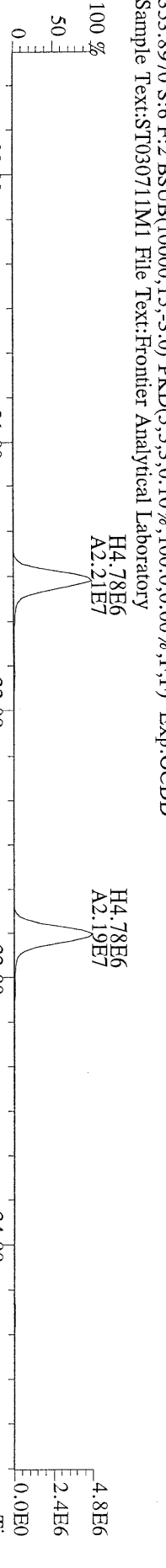
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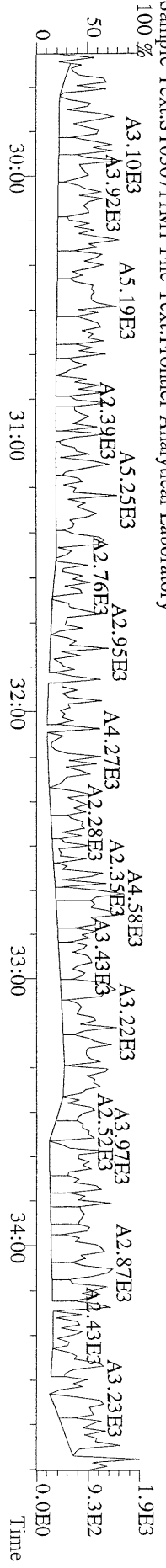
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File:07MAR11M #1-411 Acq: 7-MAR-2011 16:35:10 GC EI+ Voltage SIR Autospec-Ultima  
 353.8970 S:6 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
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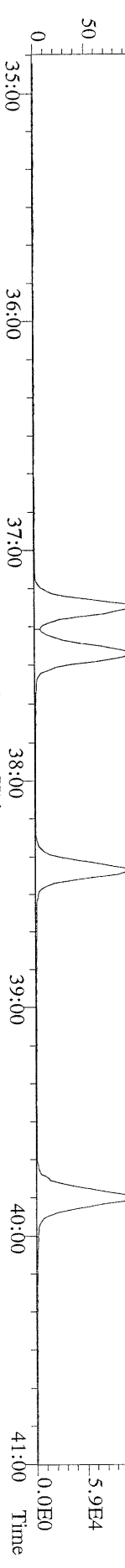


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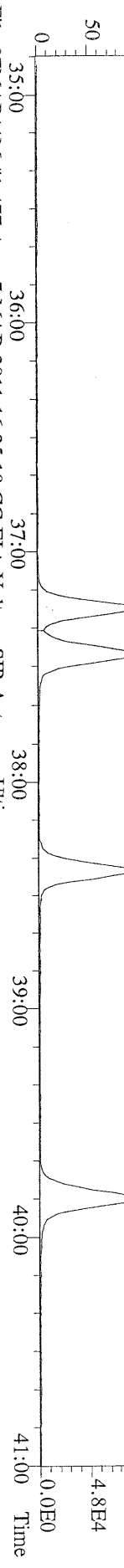




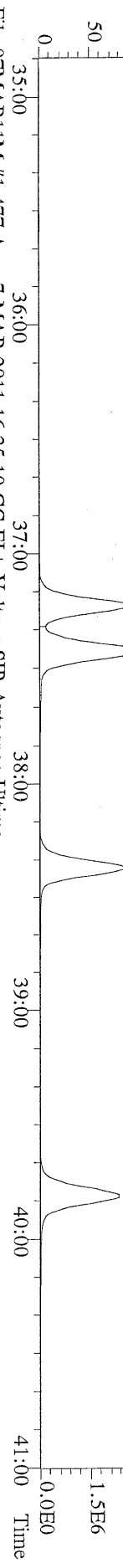
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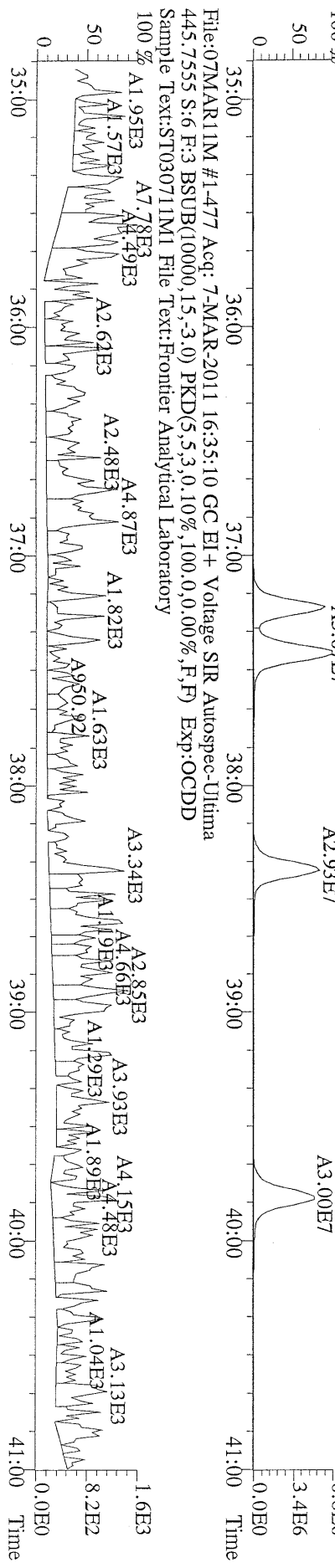
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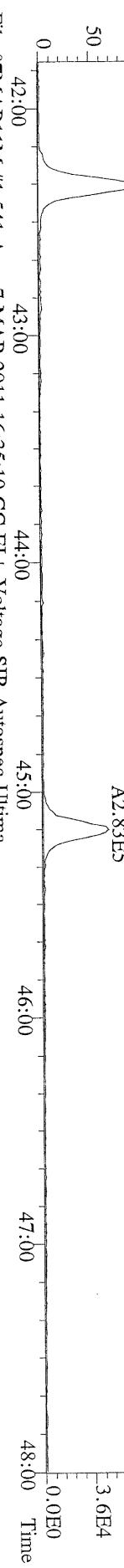
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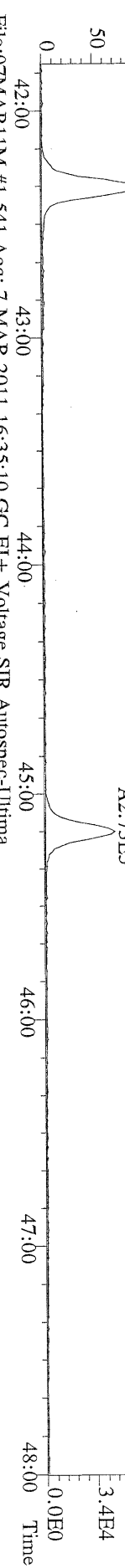
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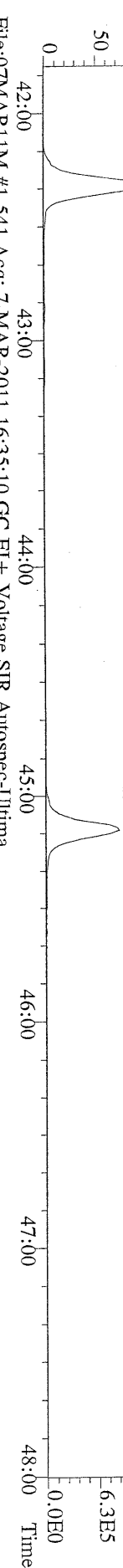
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100 %



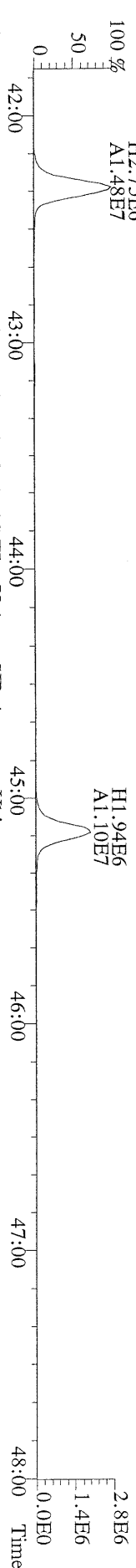
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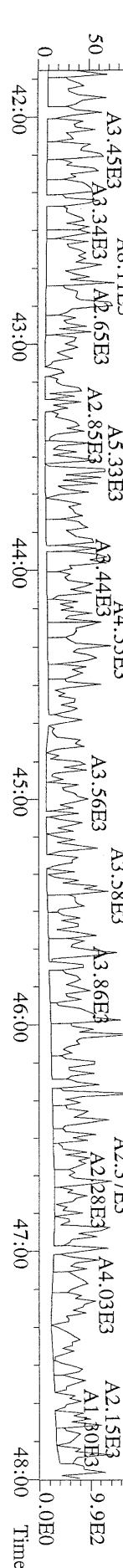
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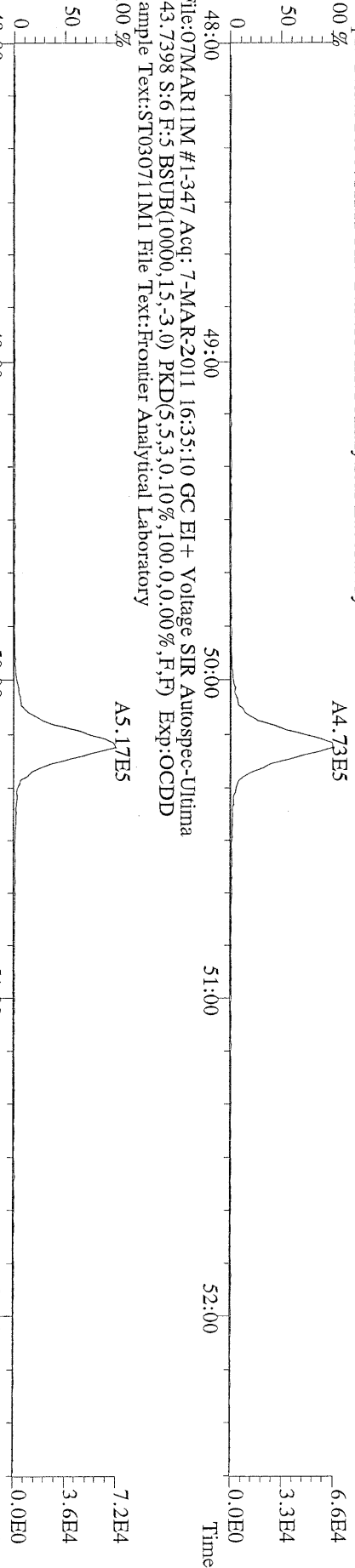
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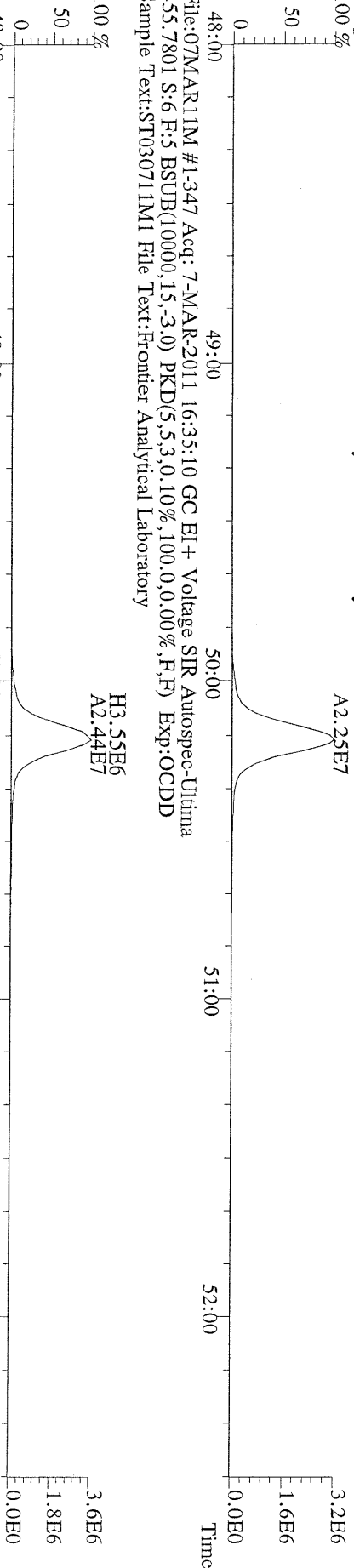
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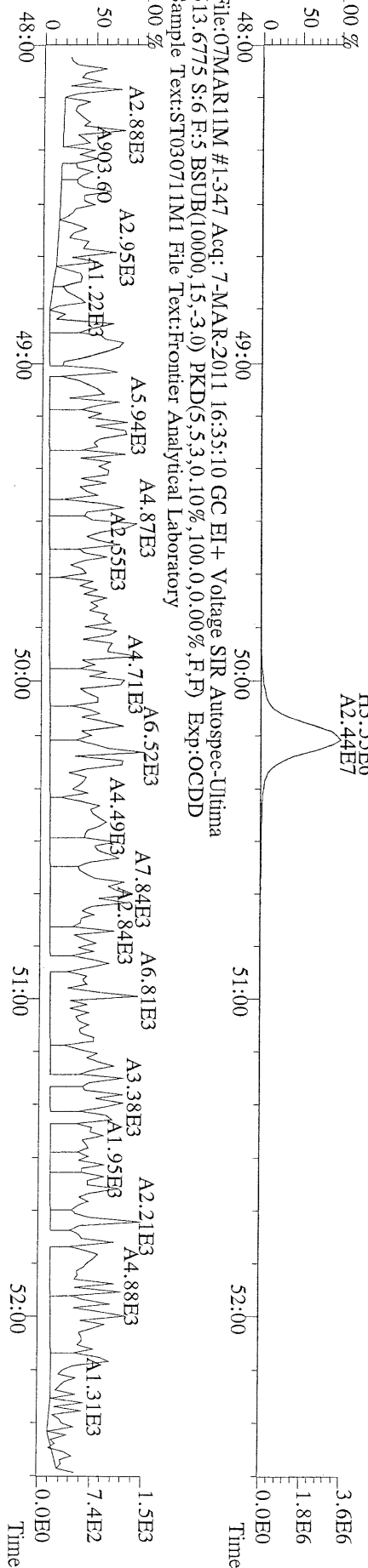
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Sample Text:ST030711M1 File Text:Frontier Analytical Laboratory  
100 %



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100 %

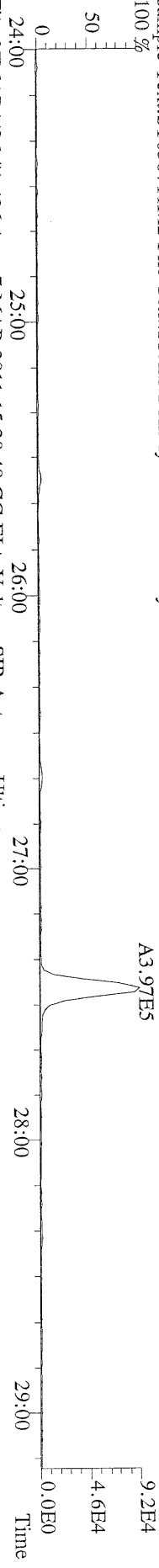


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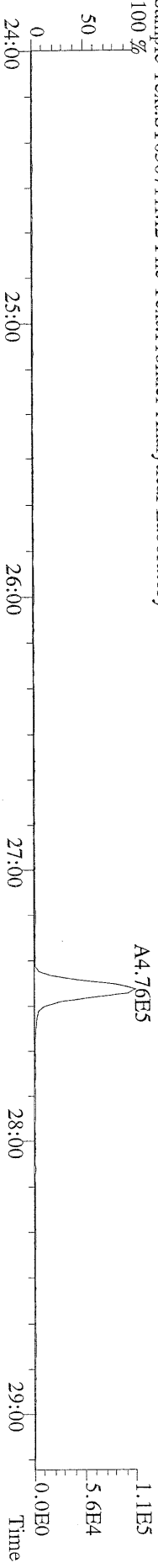


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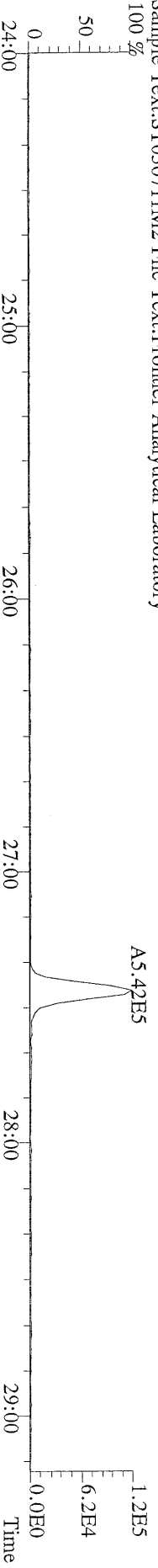
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory  
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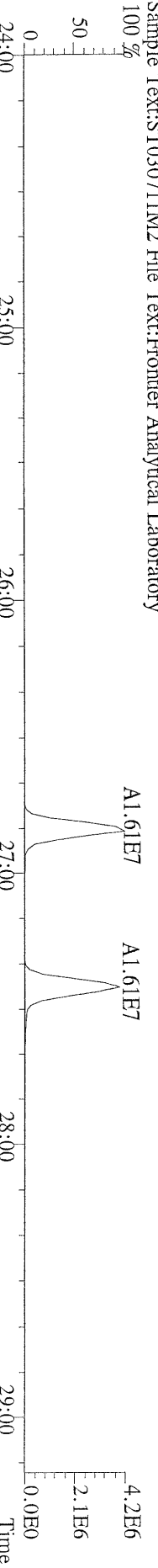
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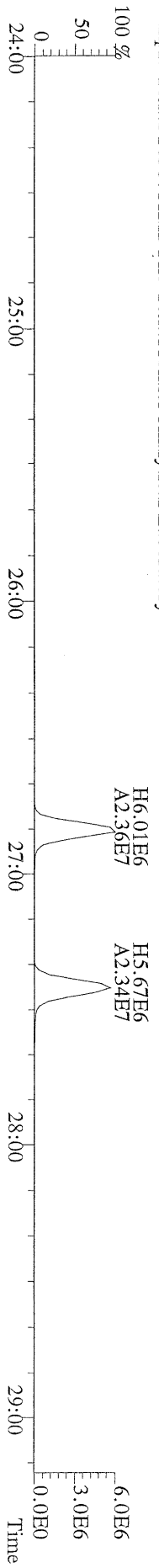
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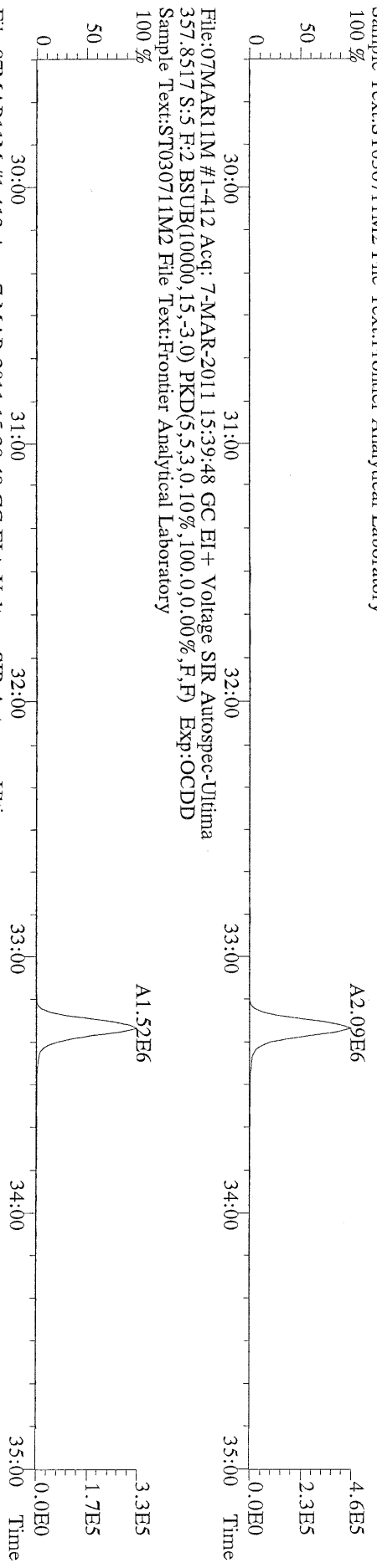
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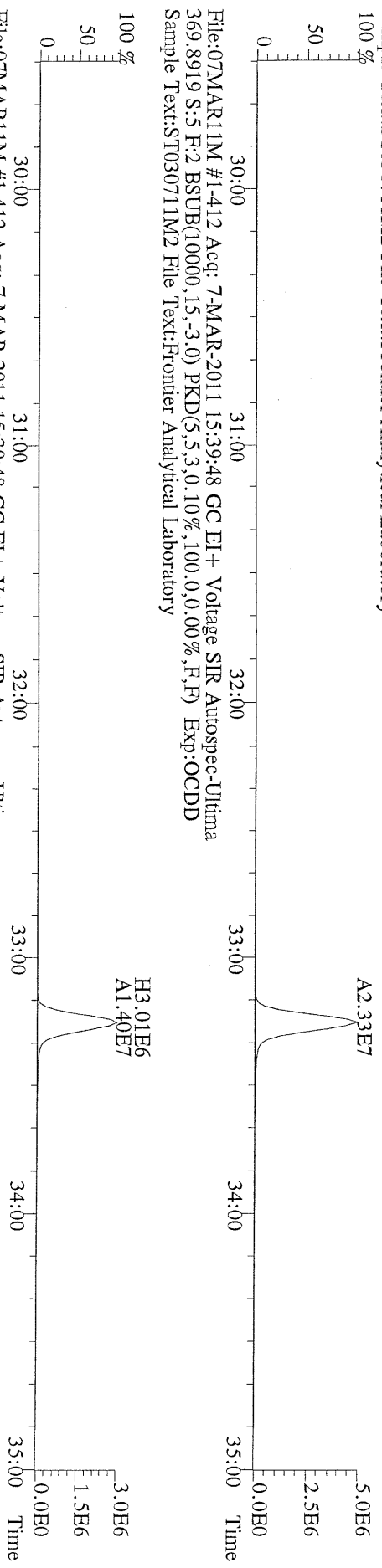
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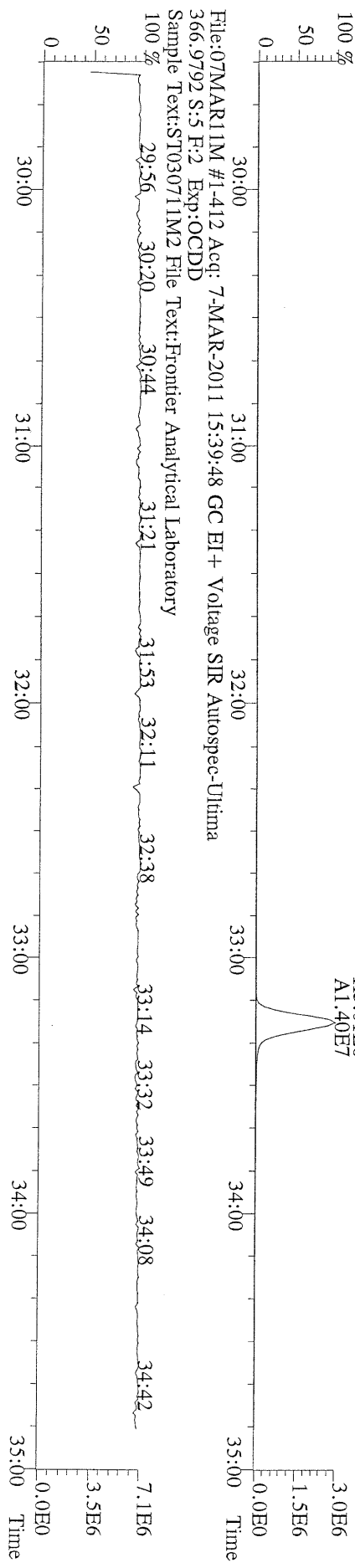
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory  
100 %



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367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory  
100 %

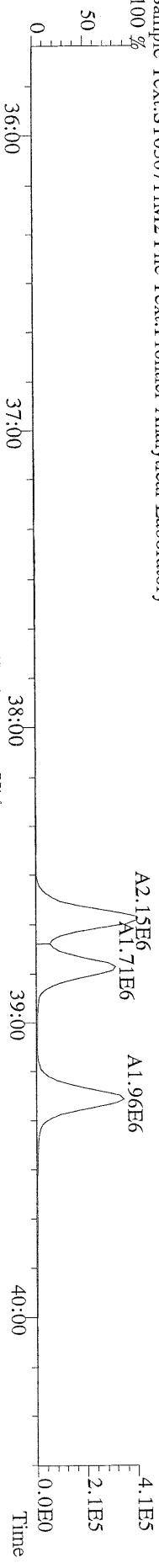


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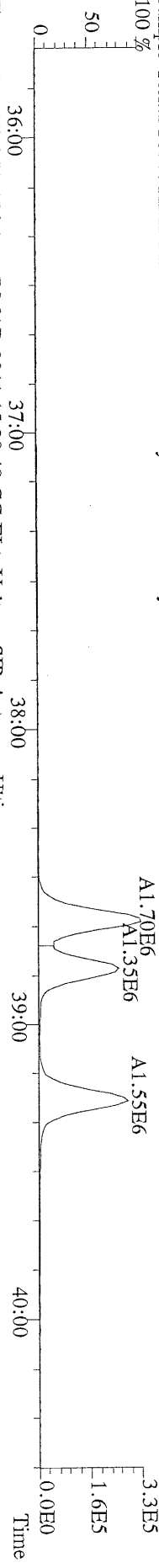


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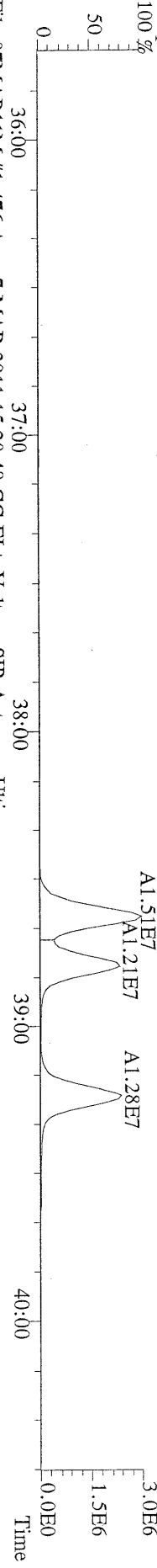
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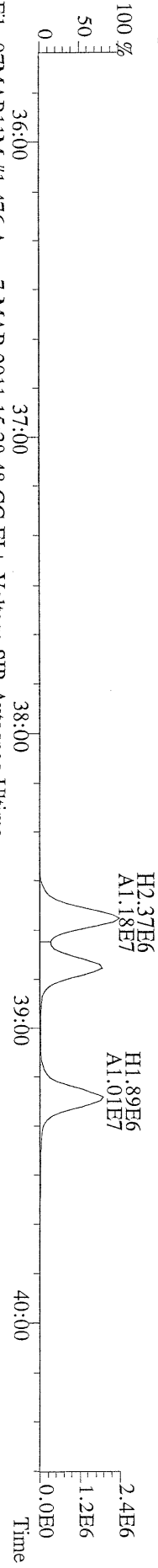
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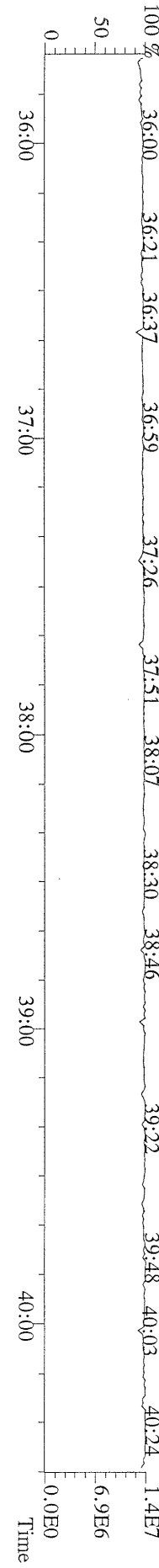
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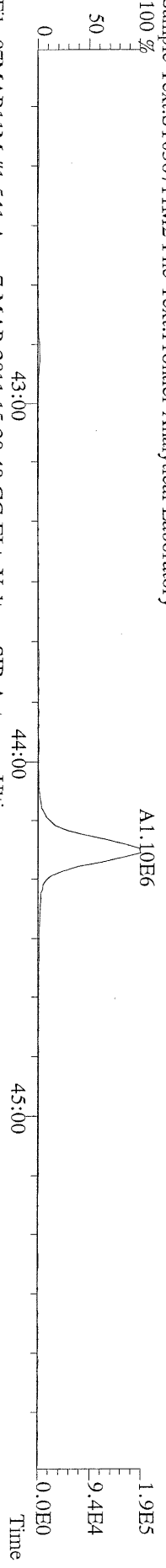
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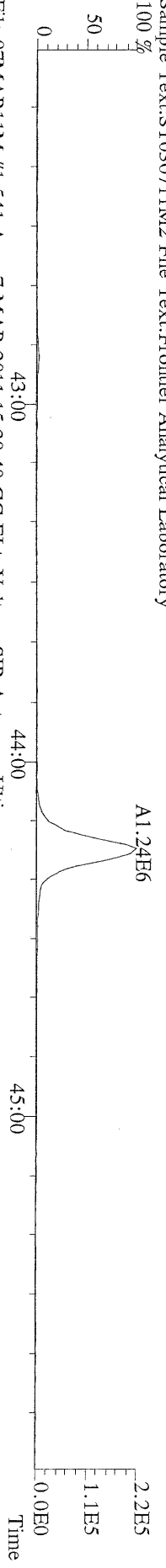
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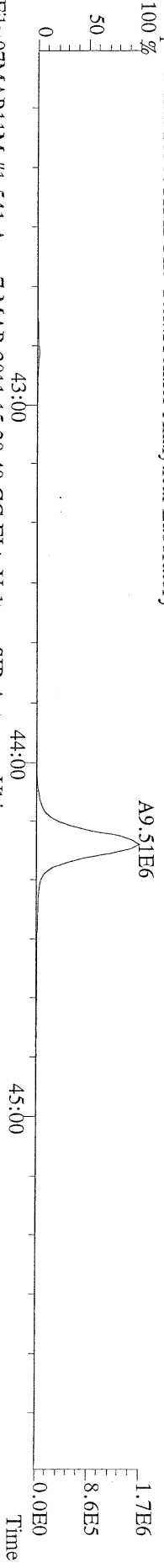
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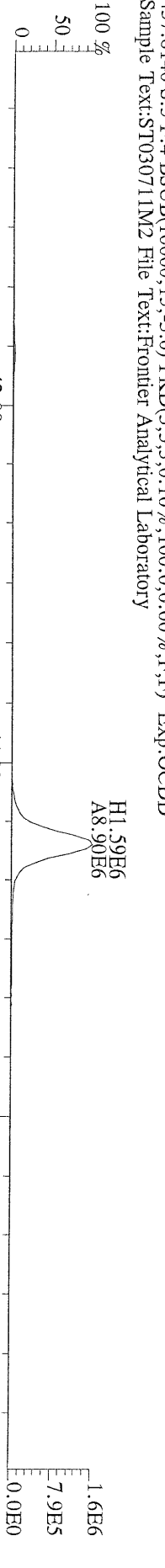
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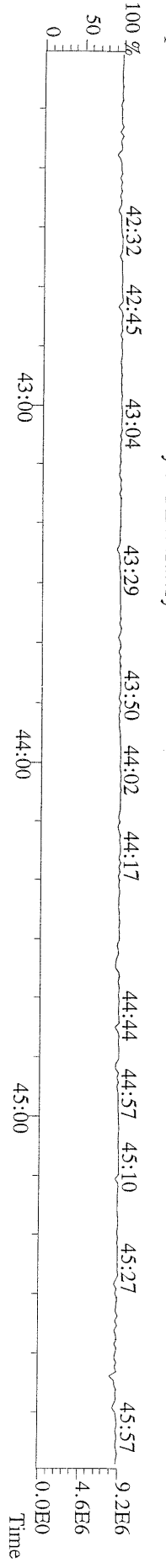
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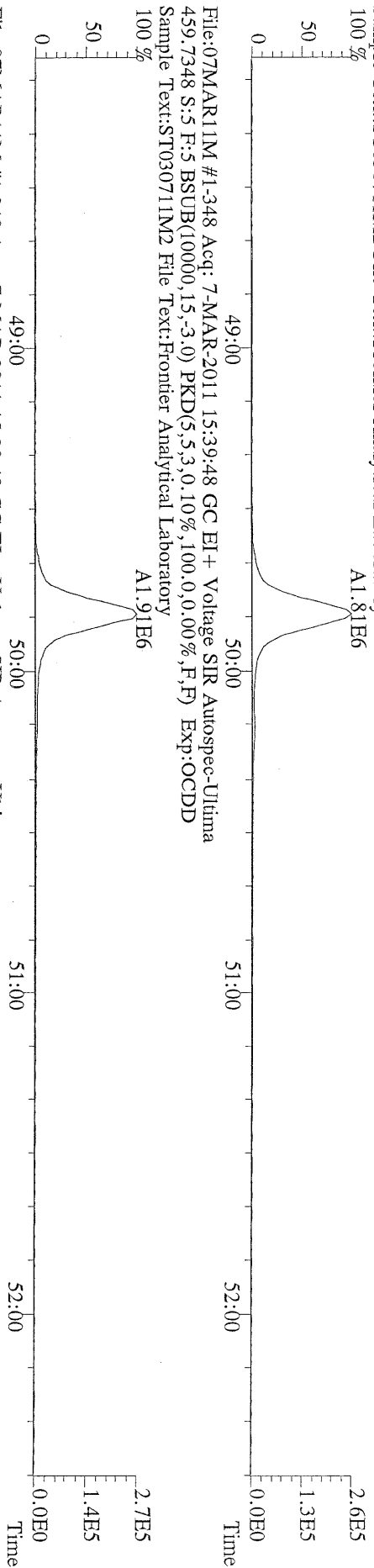
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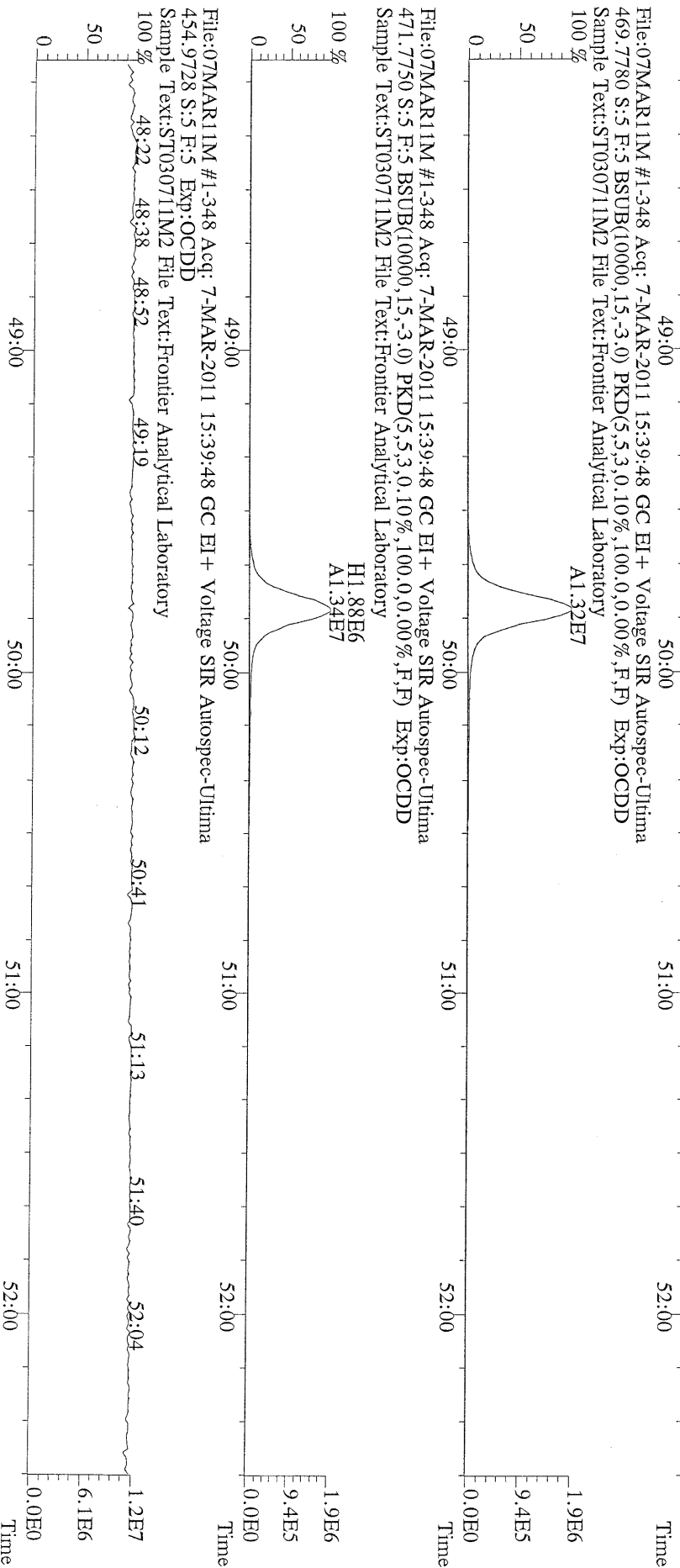
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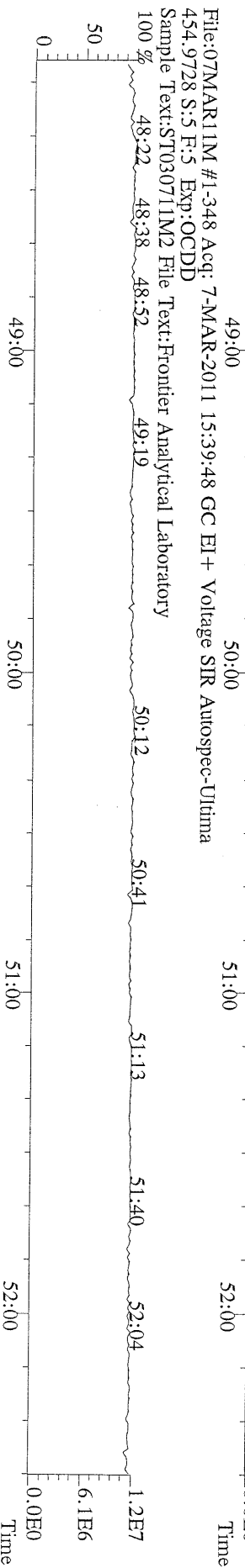
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



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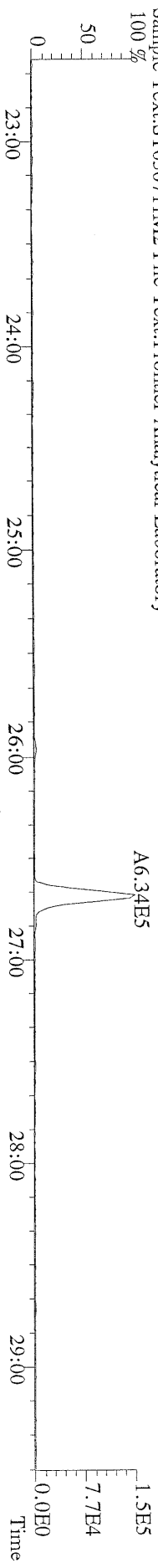


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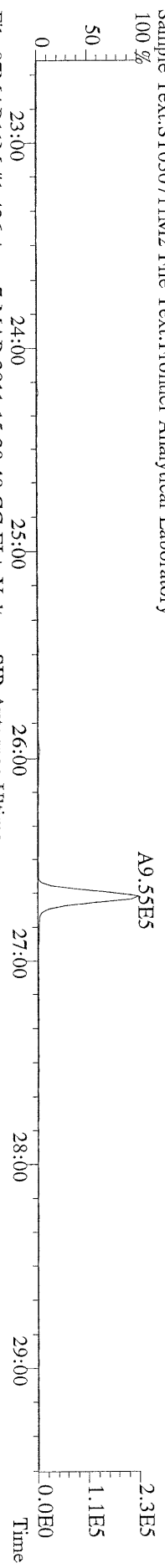




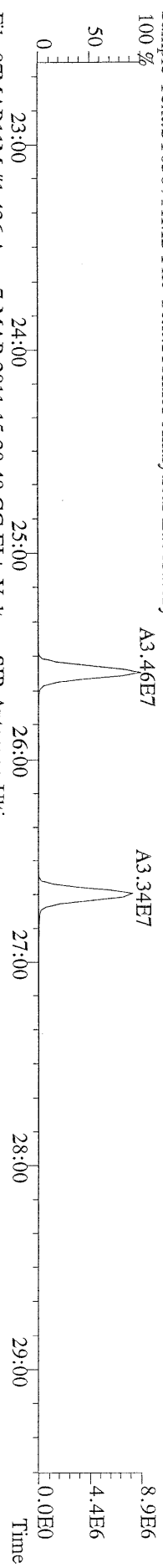
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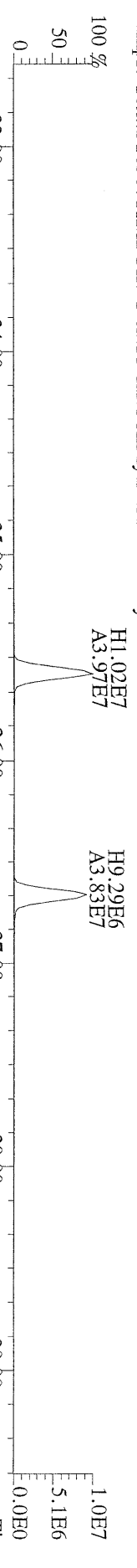
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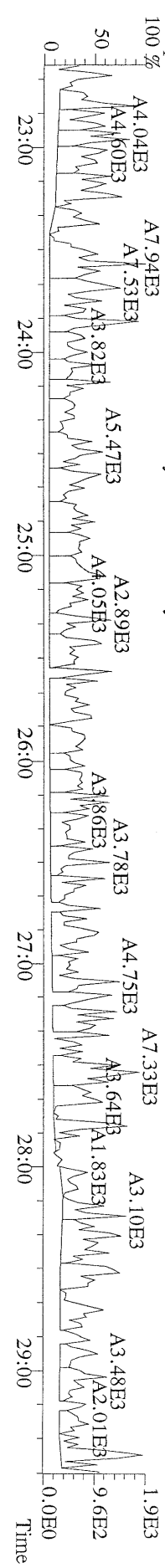
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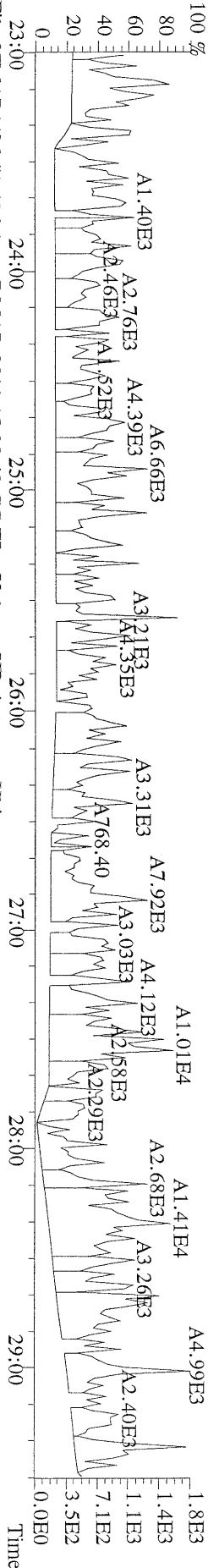
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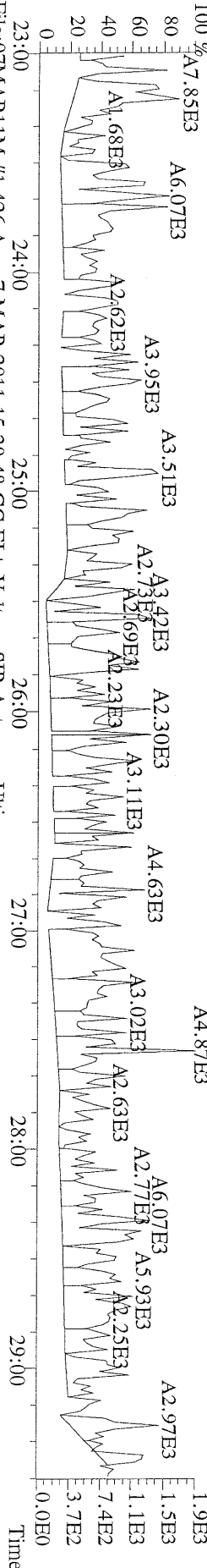
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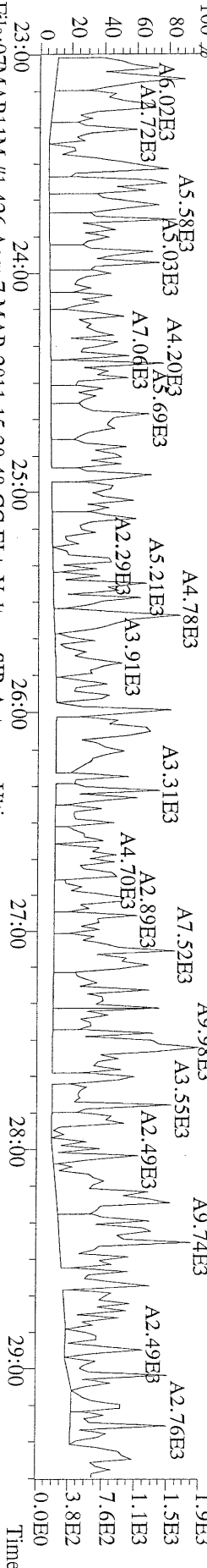
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 339.8597 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



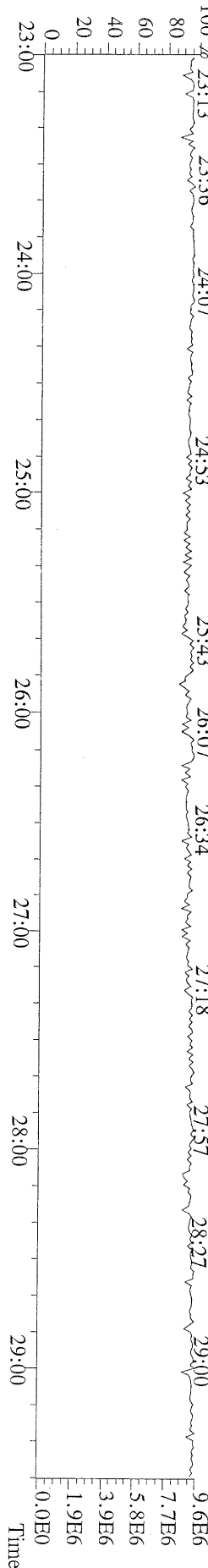
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 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



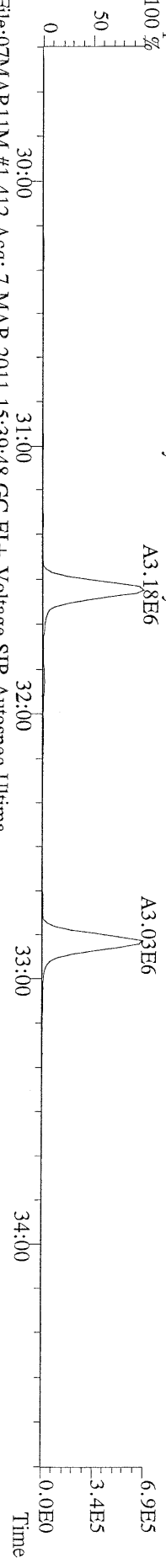
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 Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



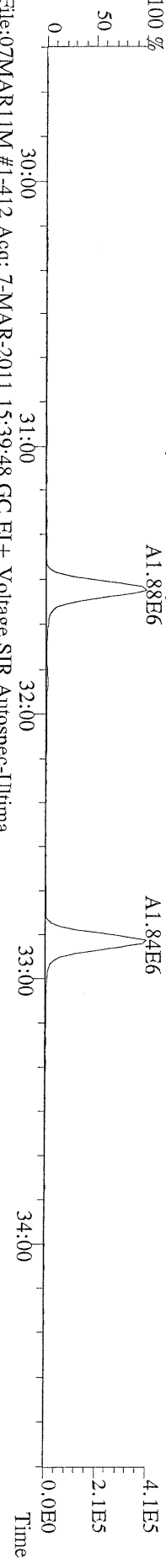
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 316.9824 S:5 Exp:OCDD  
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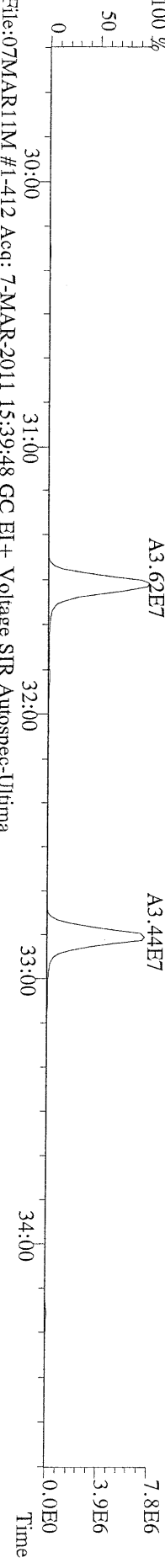
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



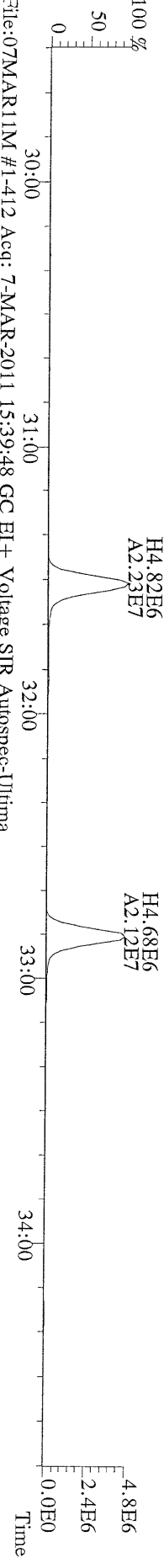
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341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



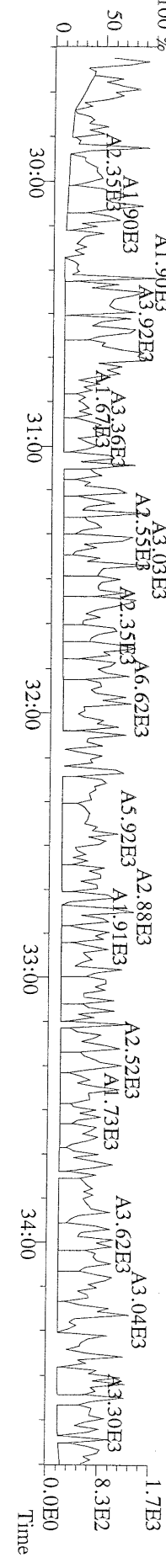
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351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



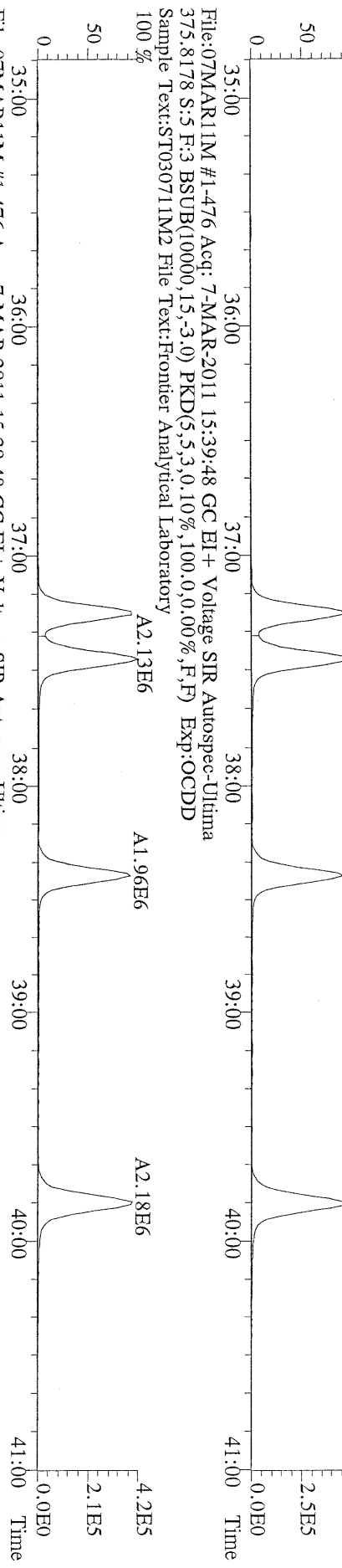
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



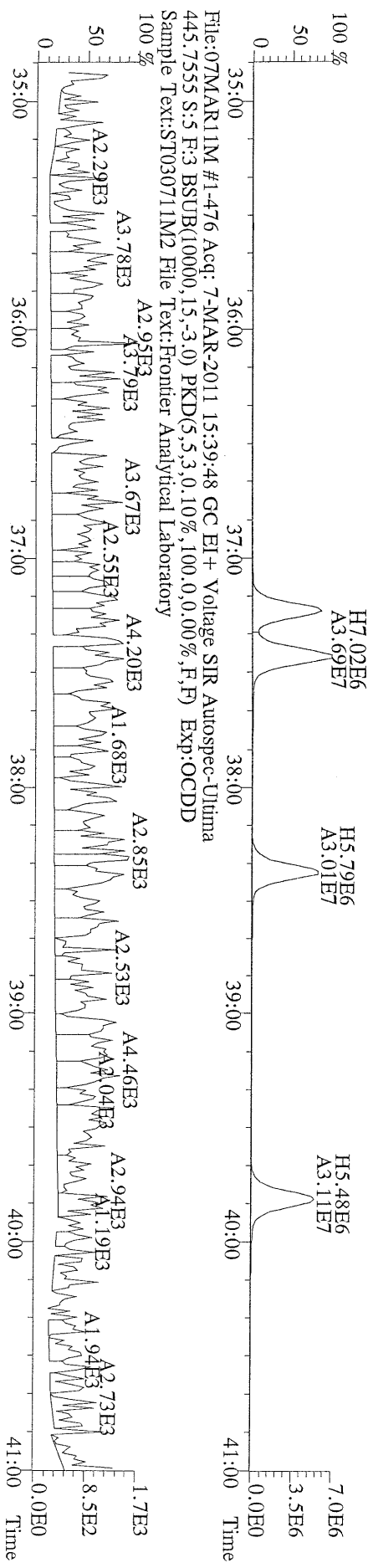
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



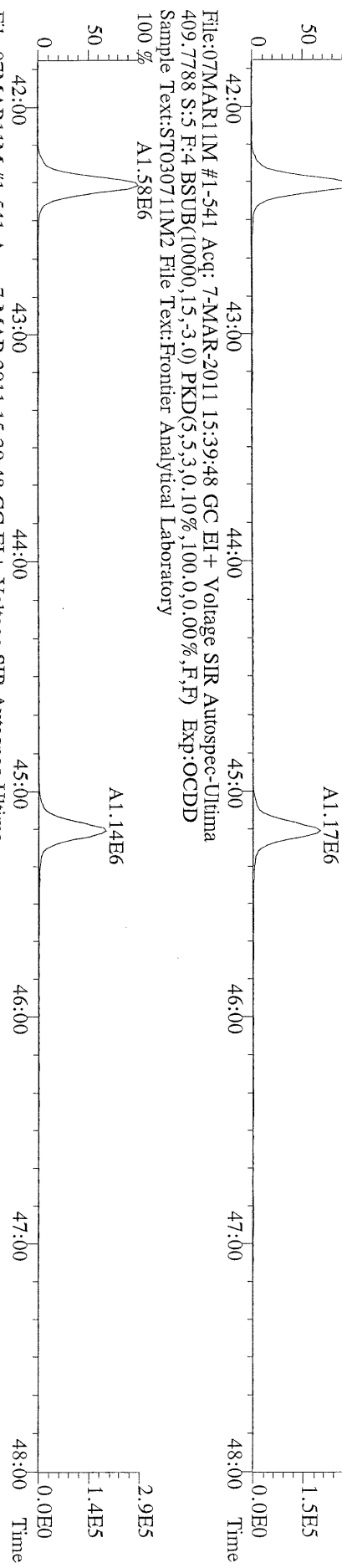
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



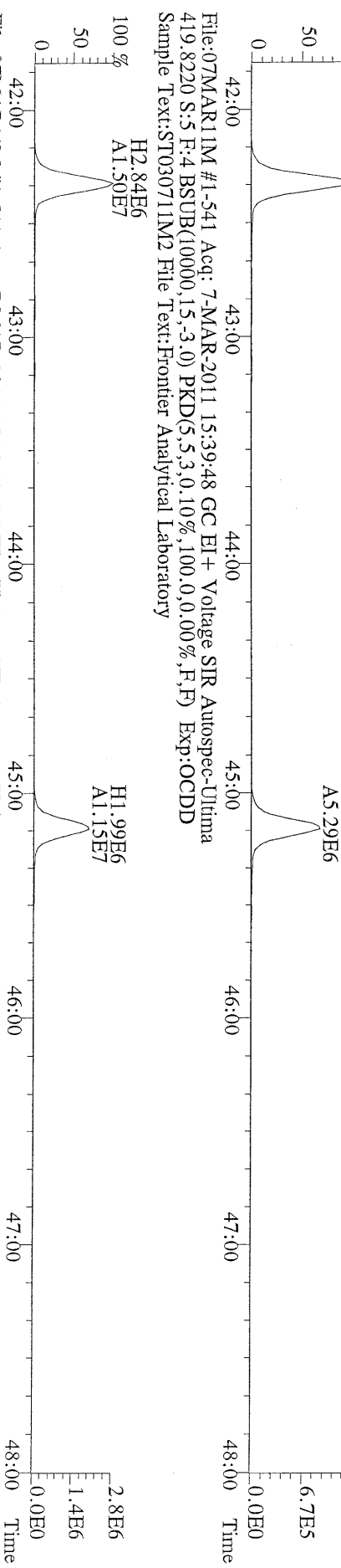
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383.8639 S:5 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



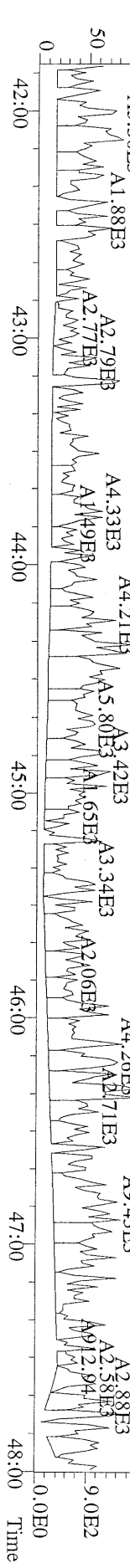
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407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



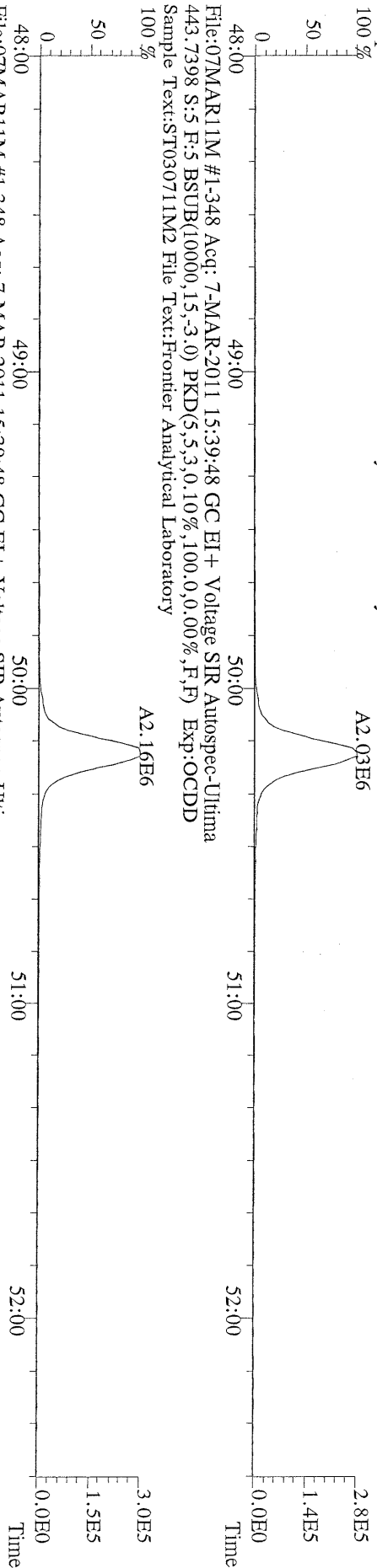
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



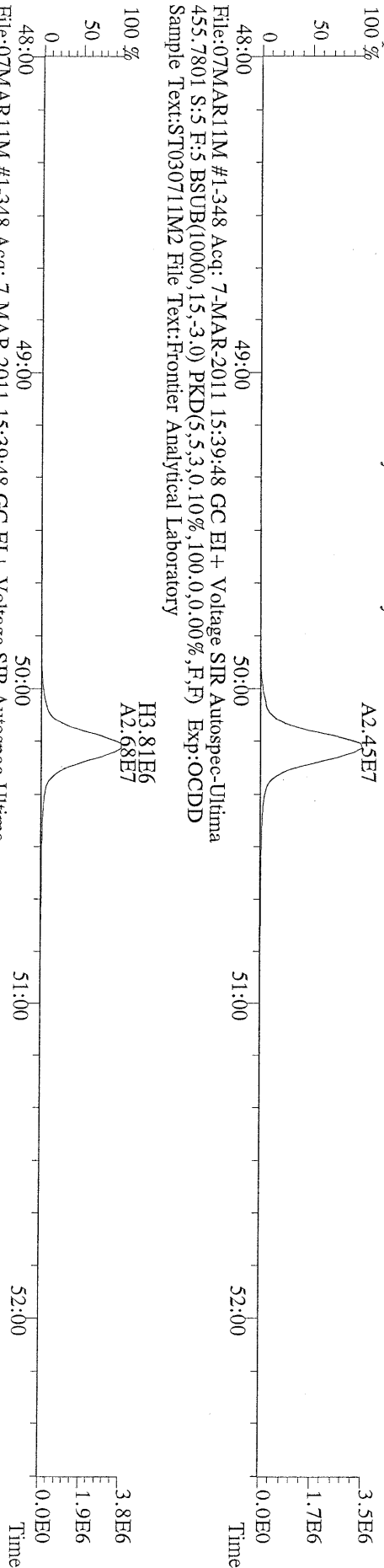
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Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



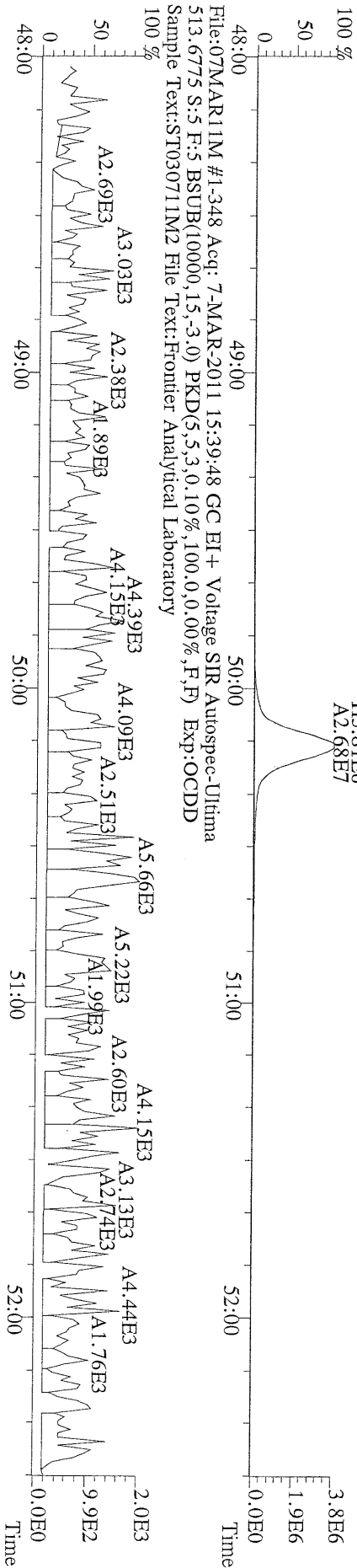
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441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M2 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-348 Acq: 7-MAR-2011 15:39:48 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
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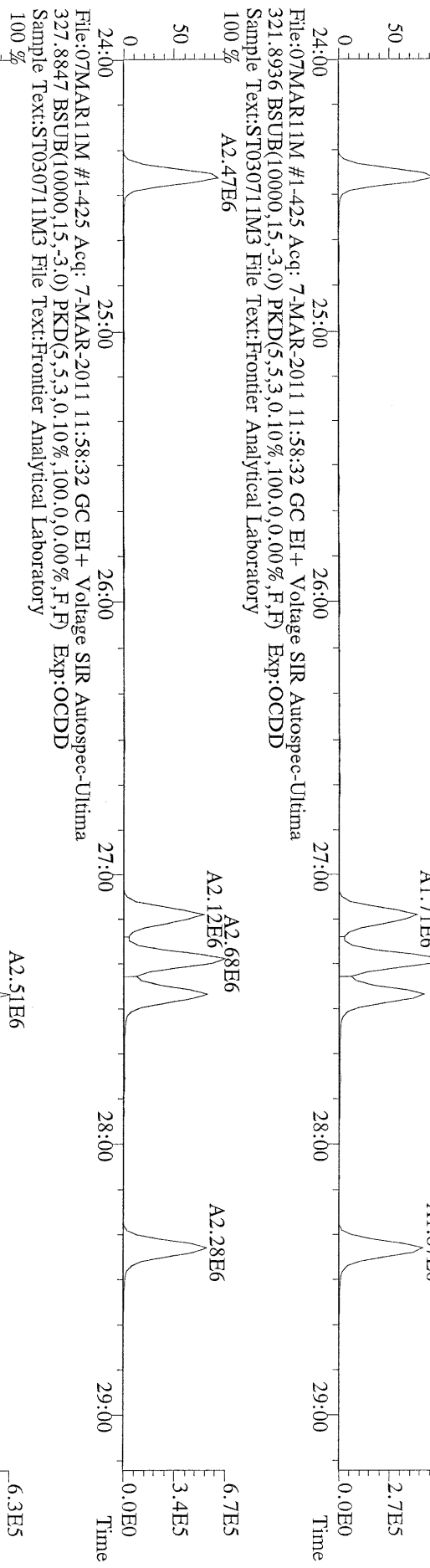


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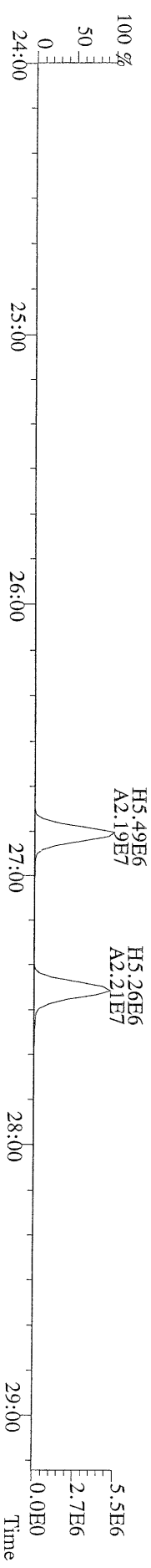


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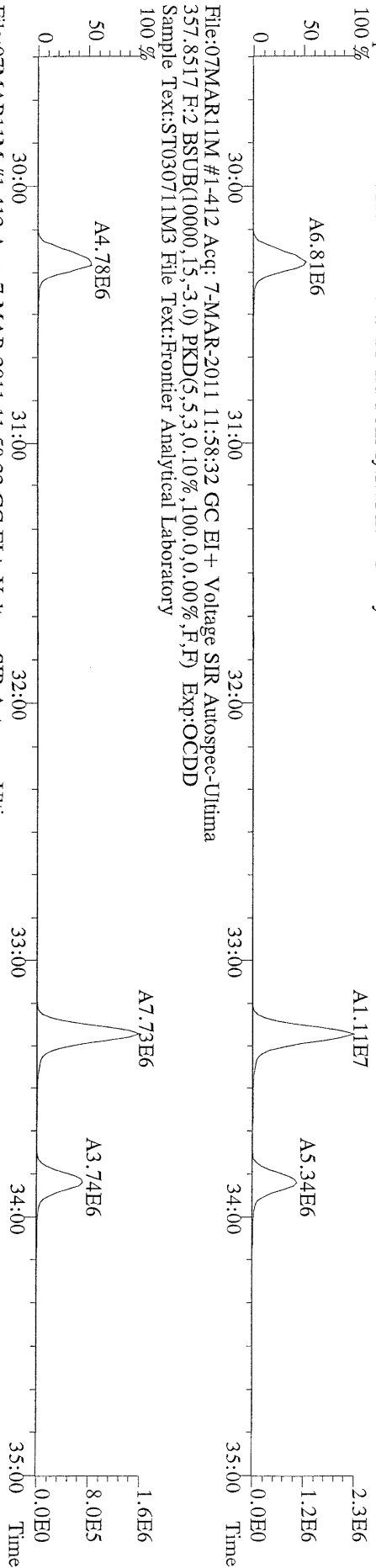
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319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory  
100 %



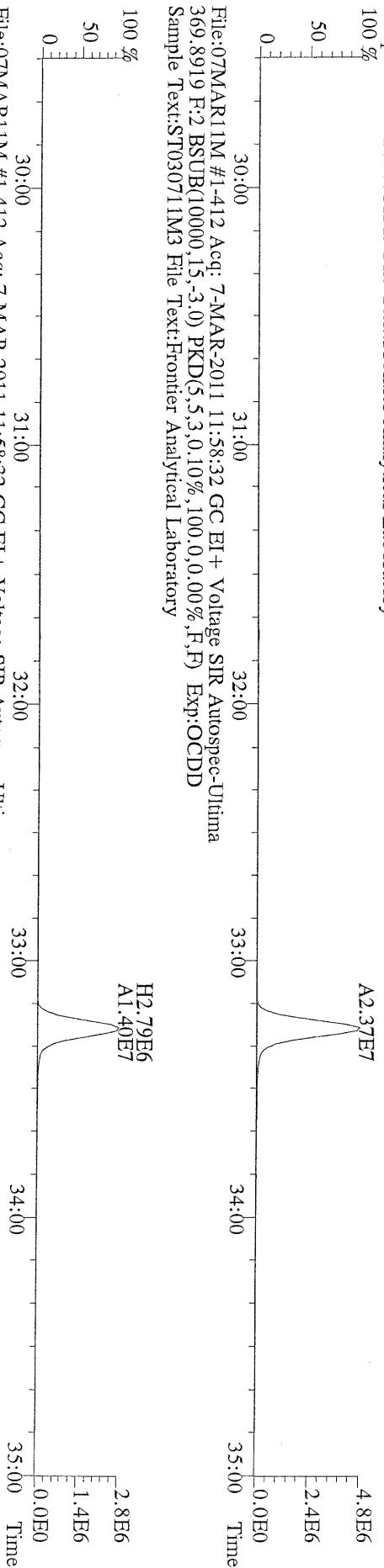
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331.9368 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory  
100 %



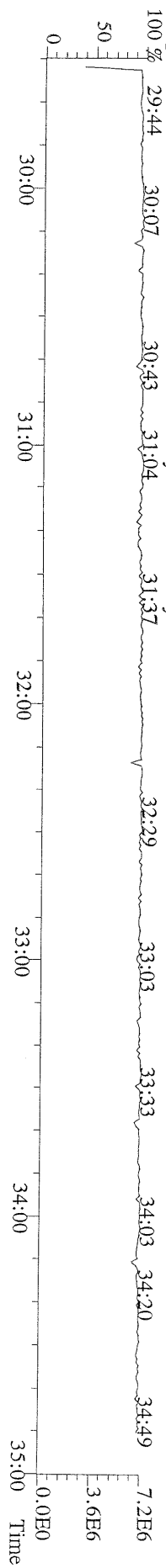
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



File:07TMAR11M #1-412 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Ultima  
367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0,0,0,0) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory

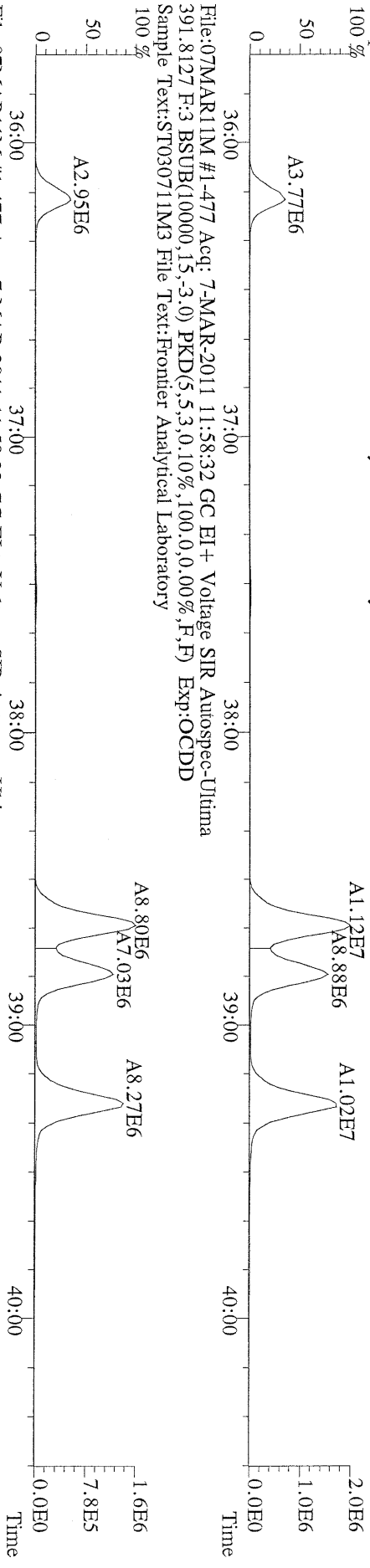


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366.9792 F:2 Exp:OCDD  
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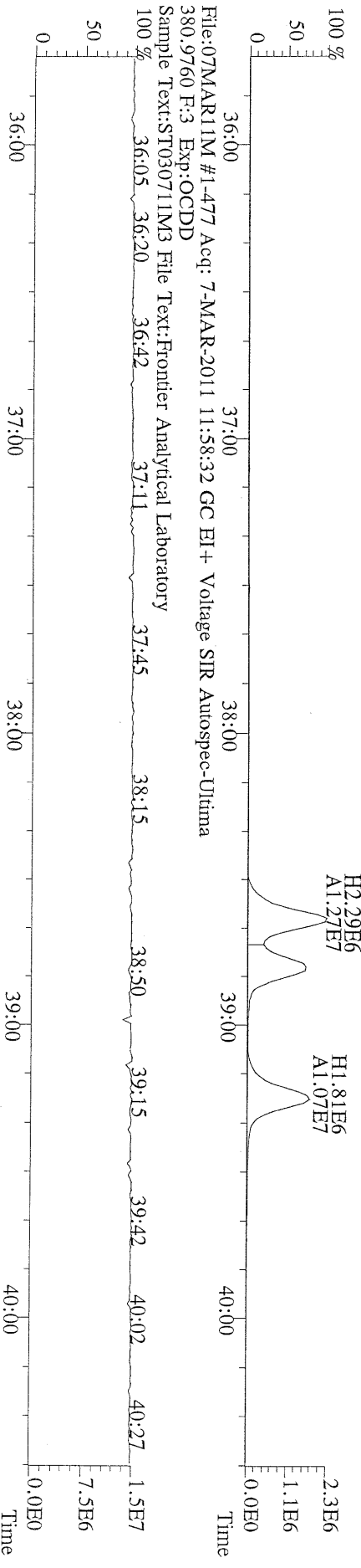




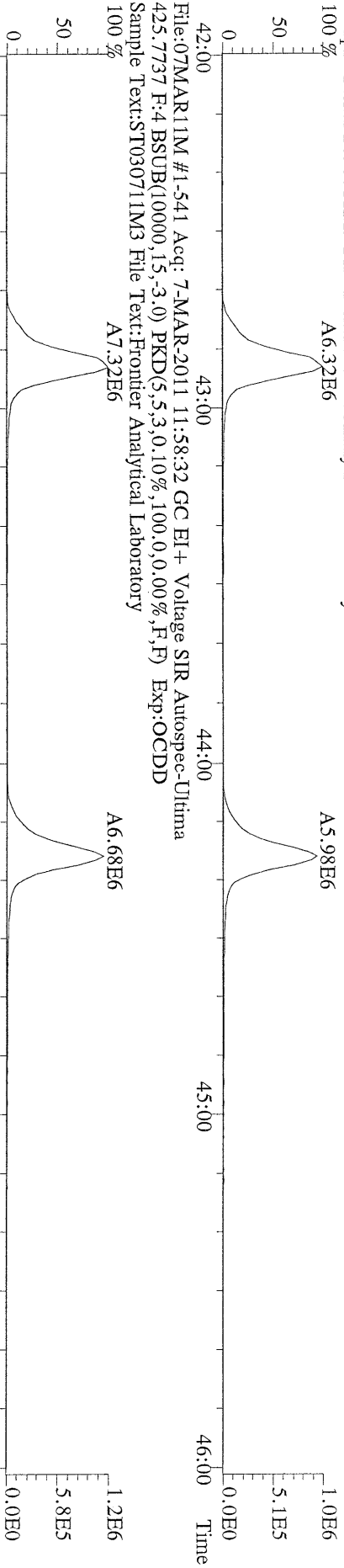
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389.8156 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



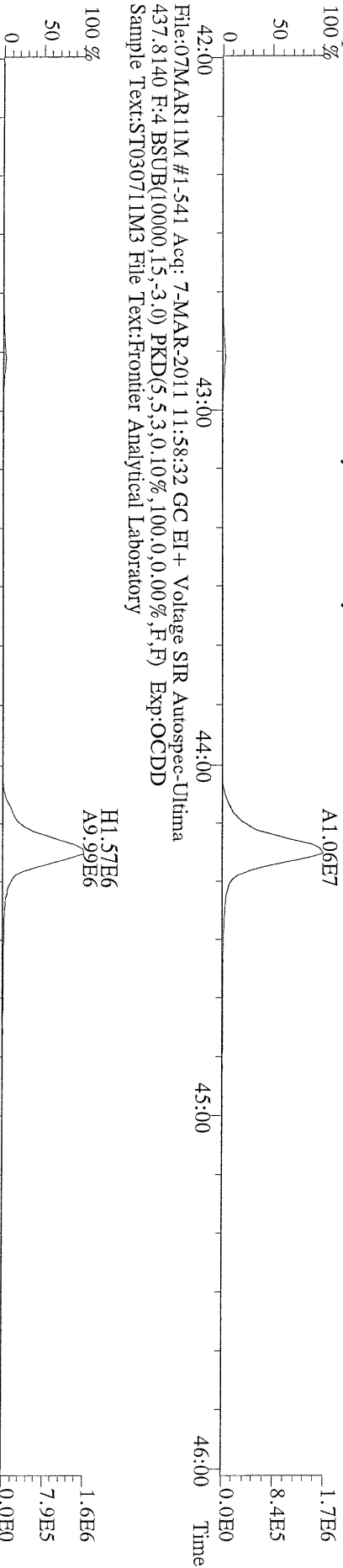
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401.8559 F:3 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



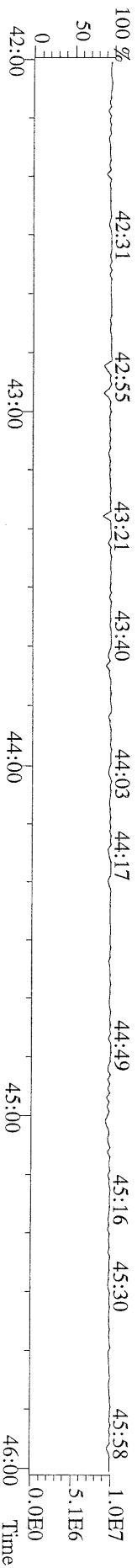
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



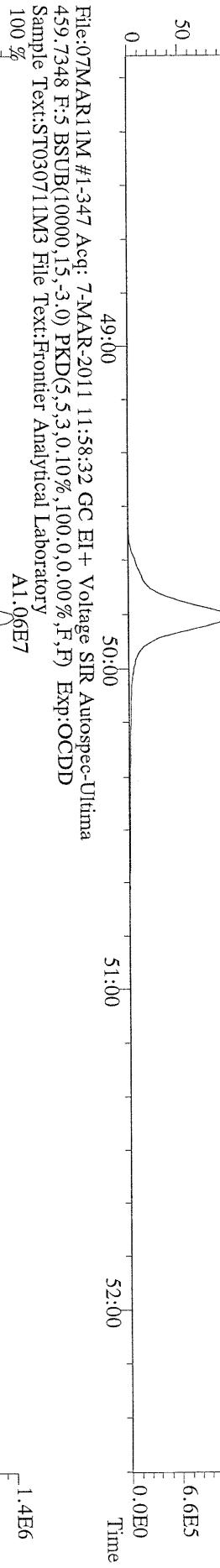
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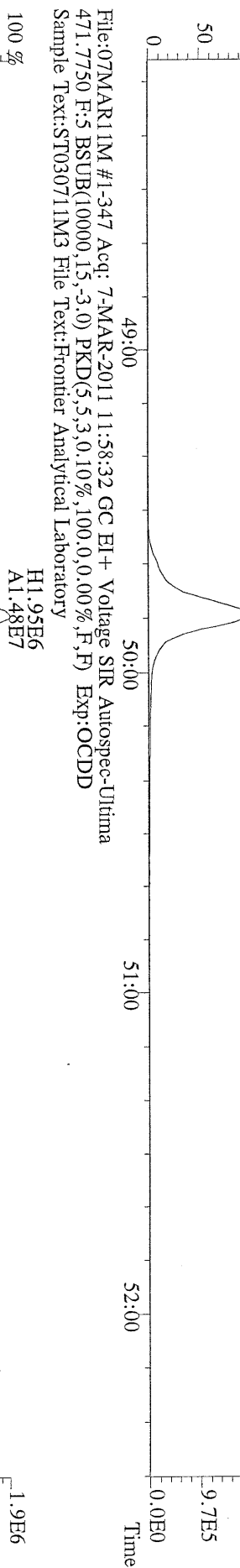
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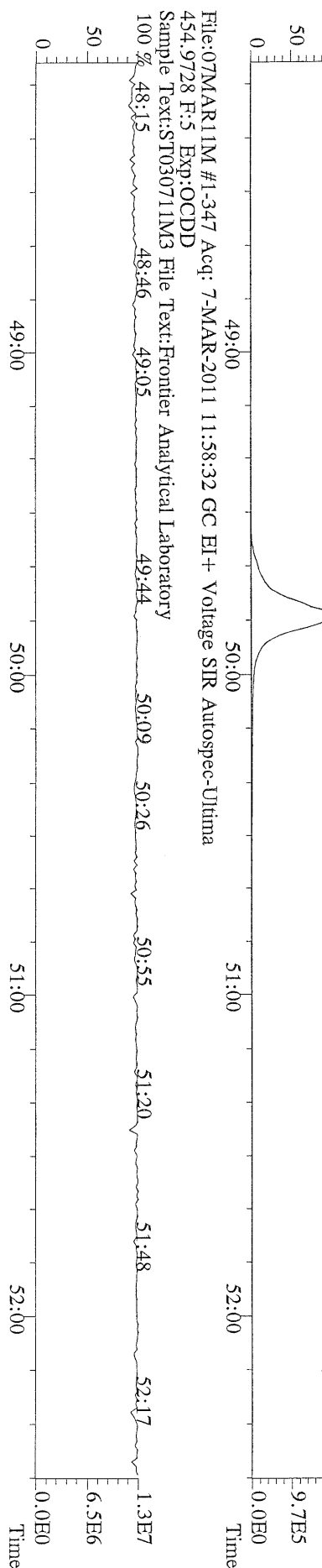
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory  
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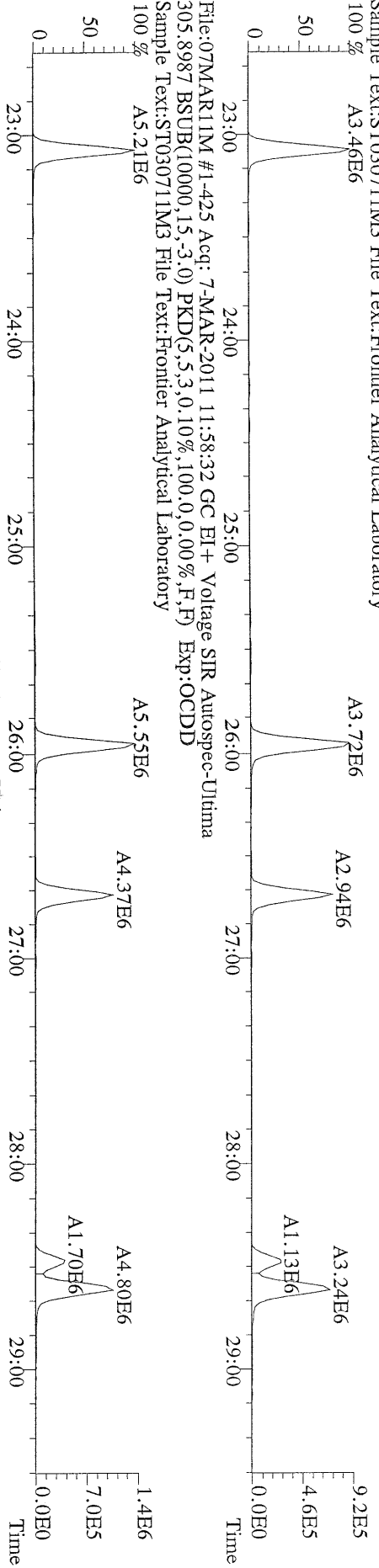
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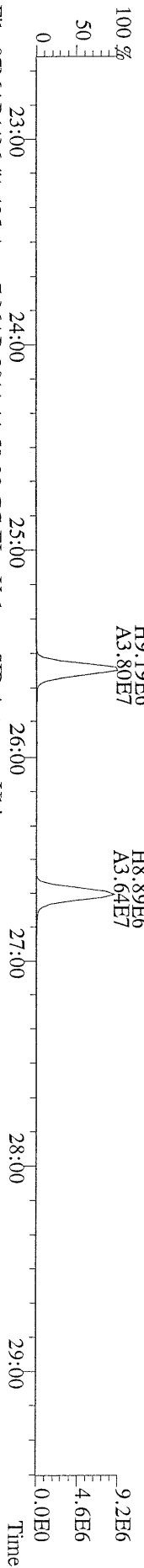
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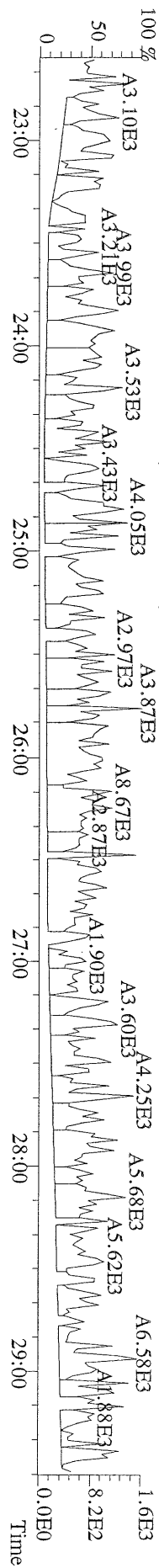
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



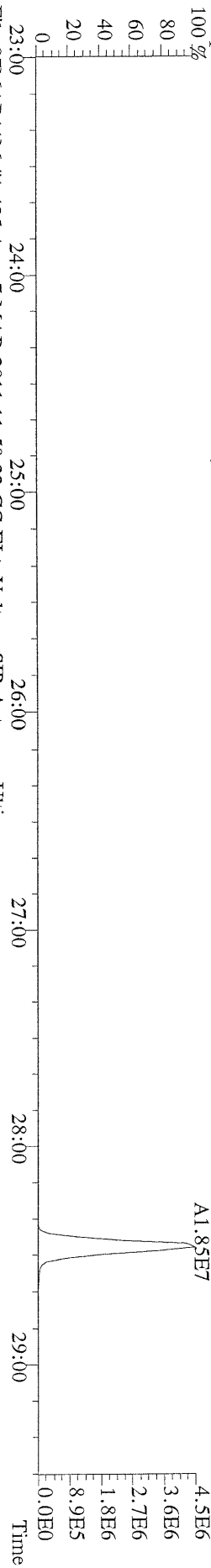
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317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



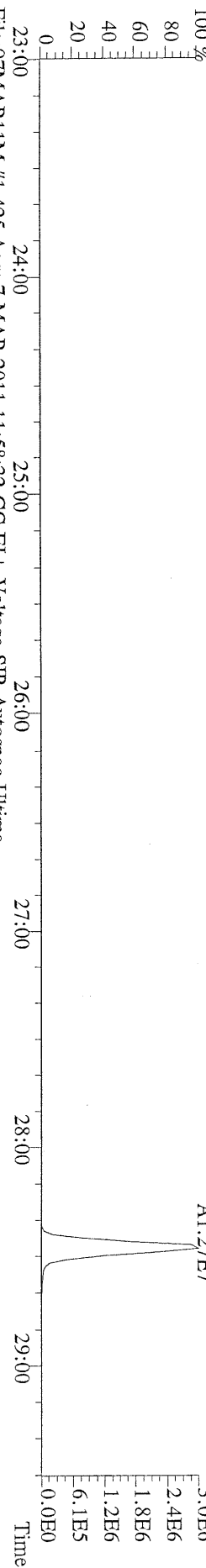
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375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



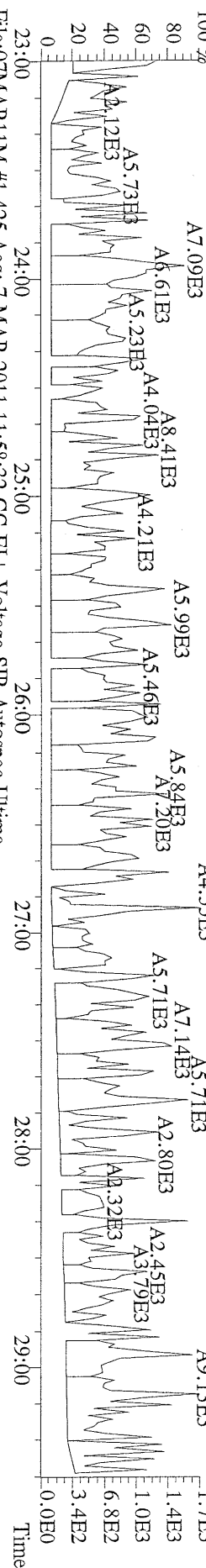
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 339.8597 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



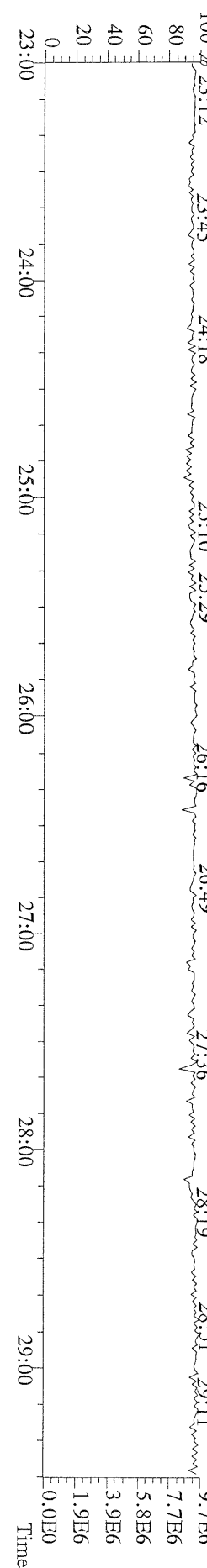
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



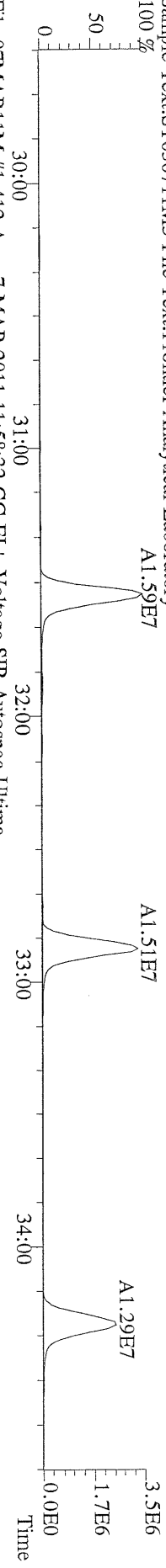
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



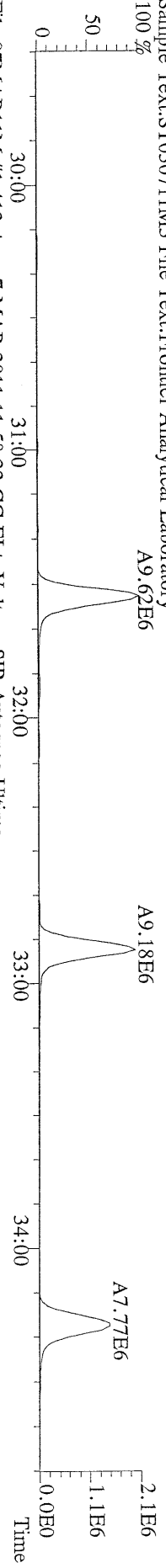
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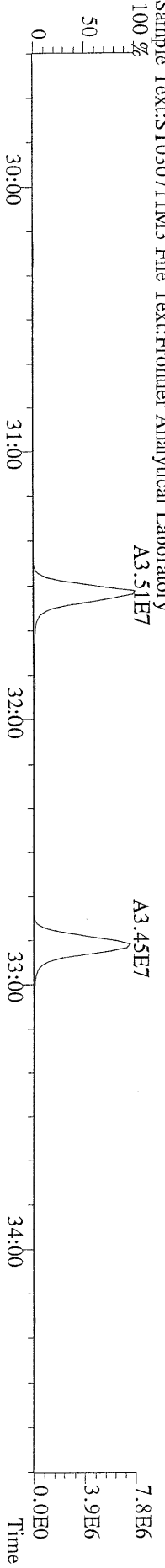
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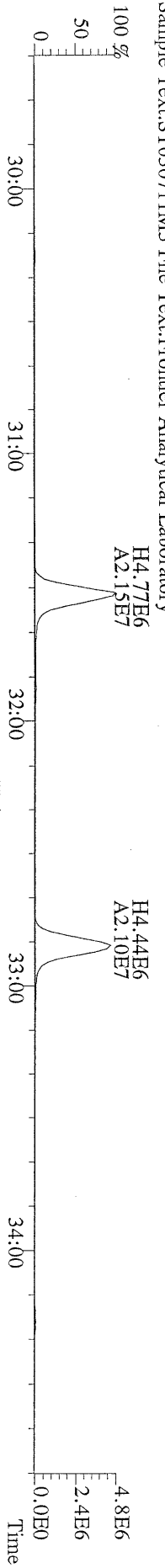
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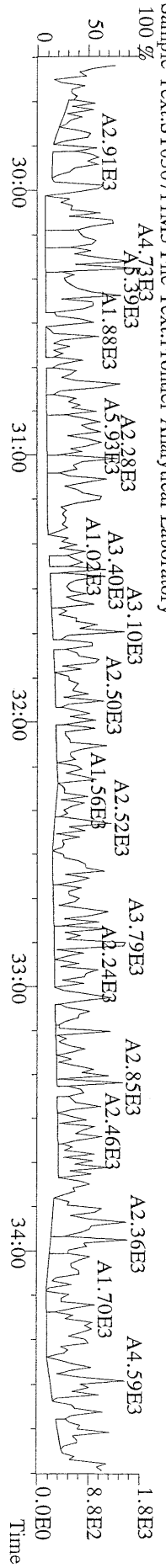
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 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



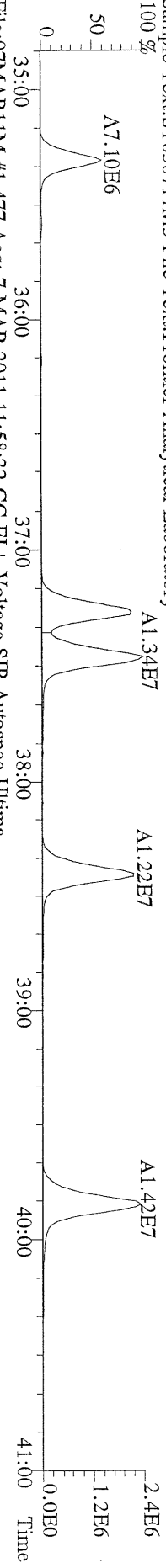
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 353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



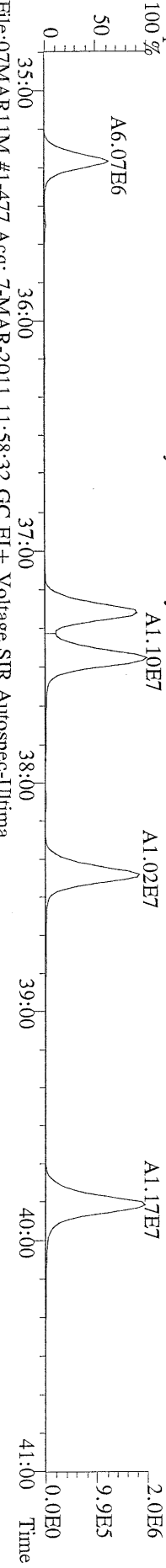
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 409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



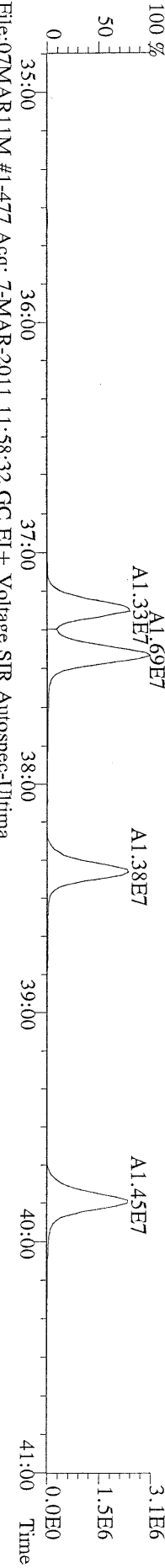
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373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



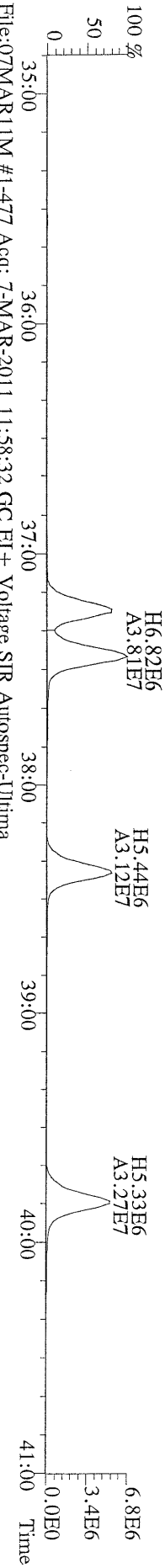
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375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



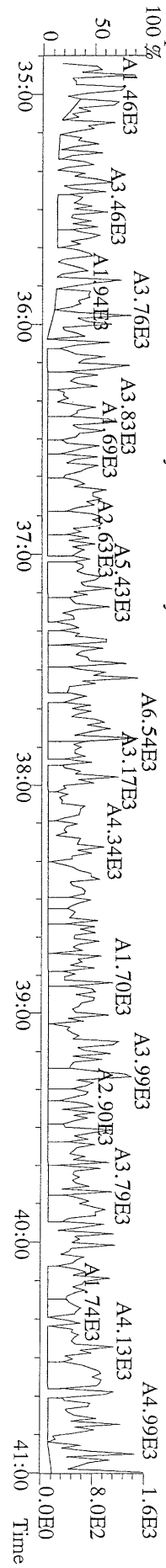
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383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



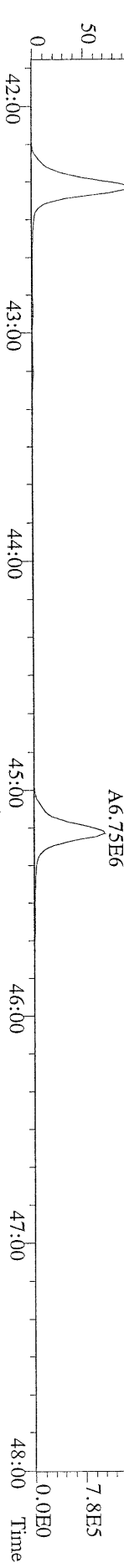
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



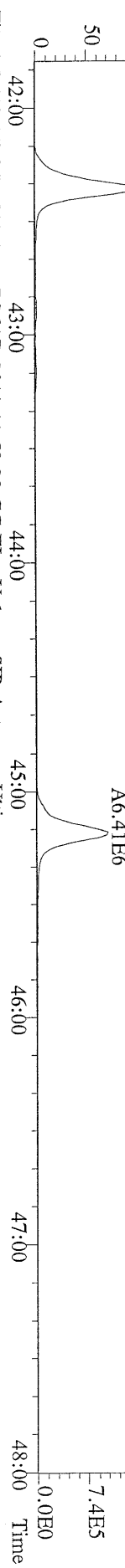
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445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



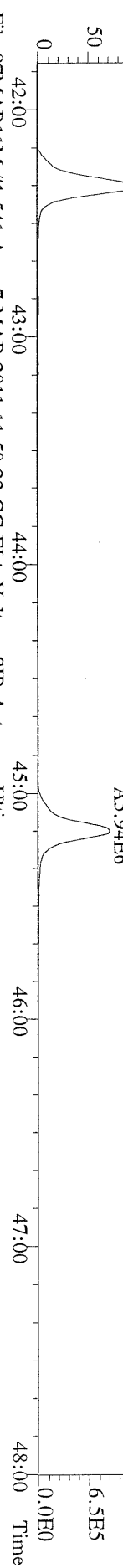
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



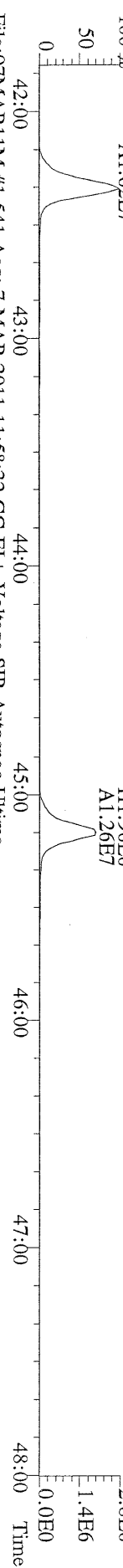
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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



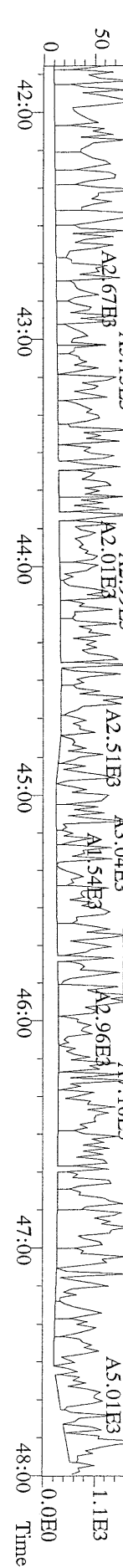
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417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-541 Acq: 7-MAR-2011 11:58:32 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:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory

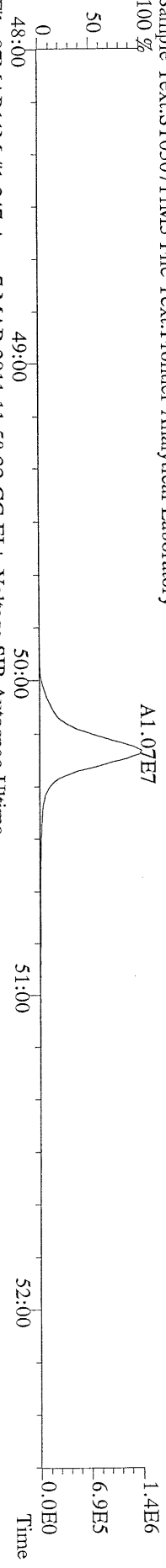


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Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory

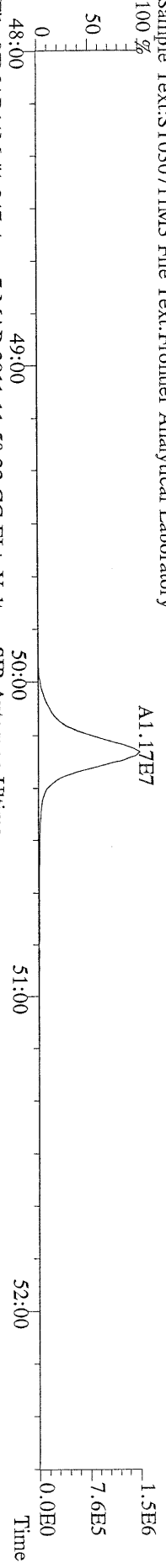




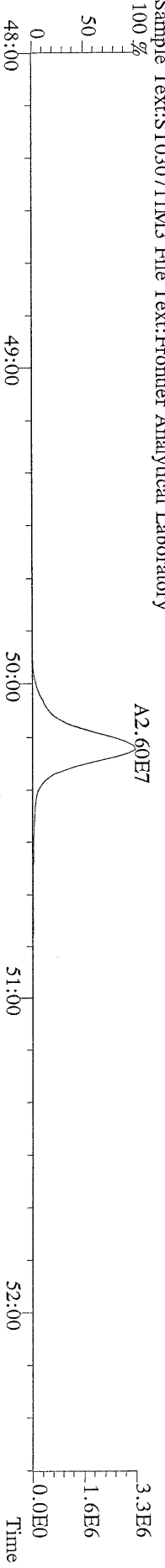
File:07MARI1M #1-347 Acq: 7-MAR-2011 11:58:32 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



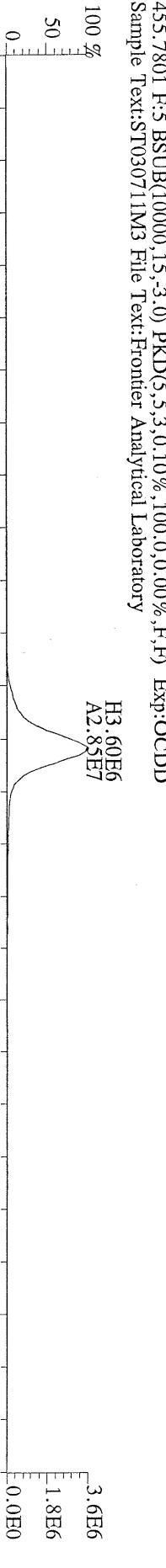
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443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



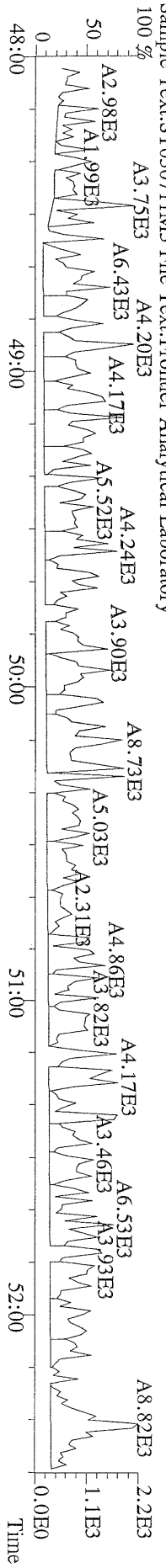
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453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



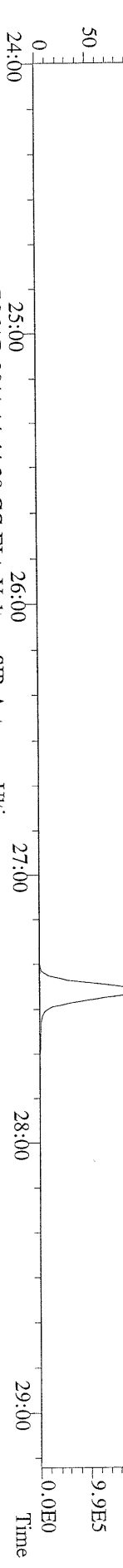
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455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



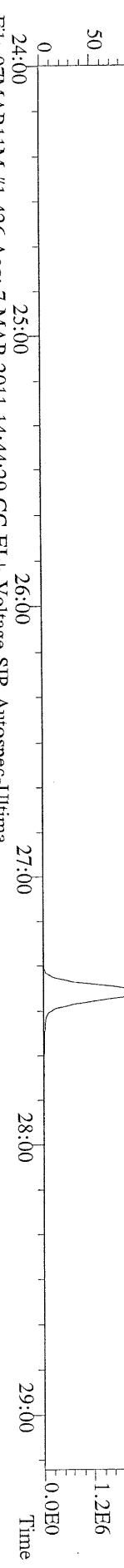
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513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M3 File Text:Frontier Analytical Laboratory



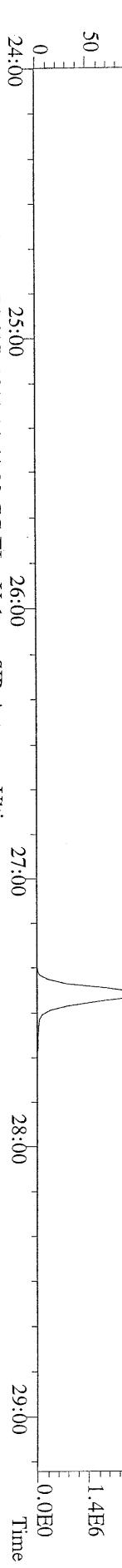
File:07MAR11M #1-426 Acq: 7-MAR-2011 14:44:29 GC EI+ Voltage SIR Autospec-Ultima  
319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



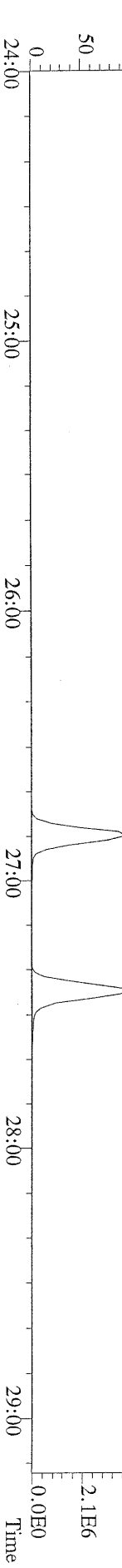
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321.8936 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



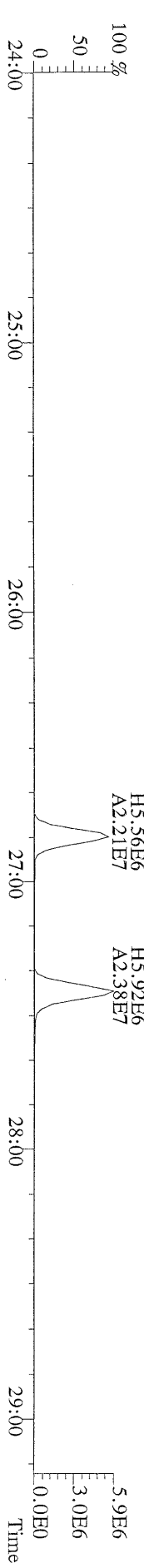
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327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



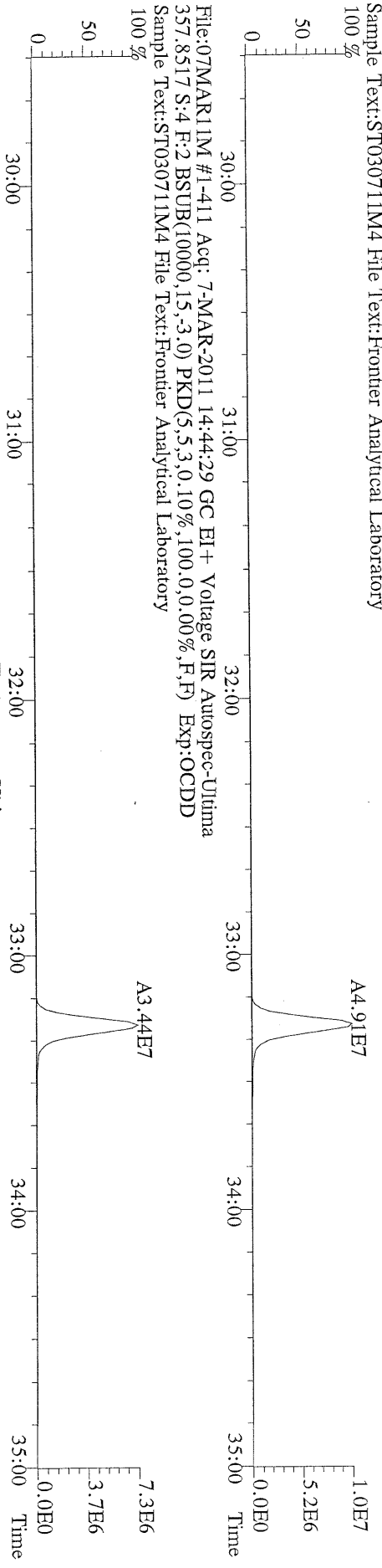
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331.9368 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



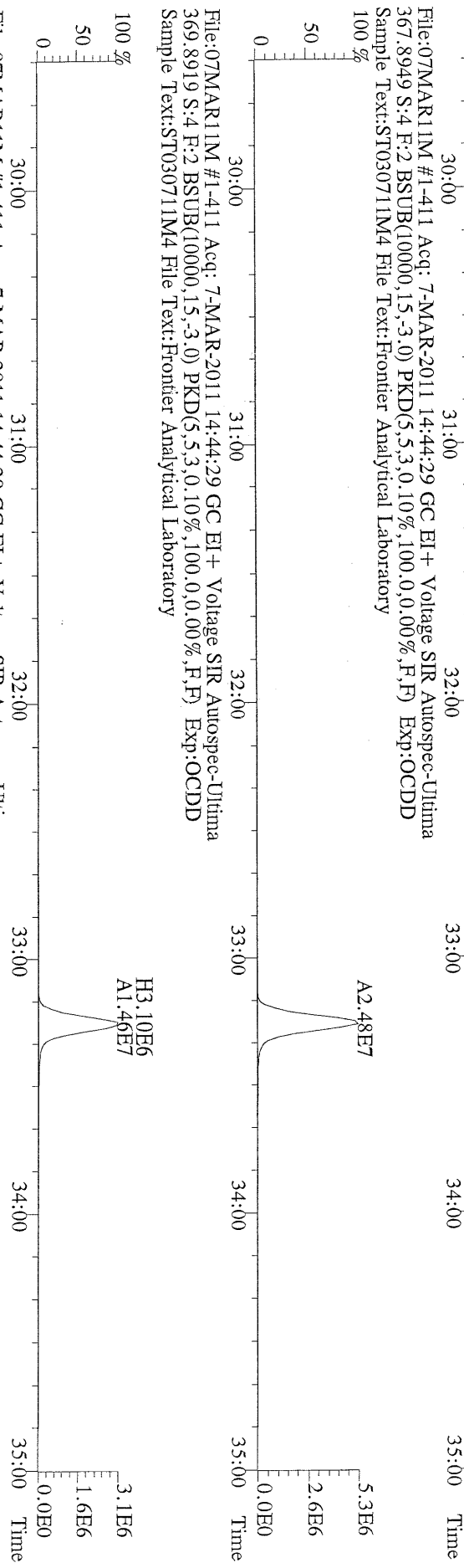
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333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



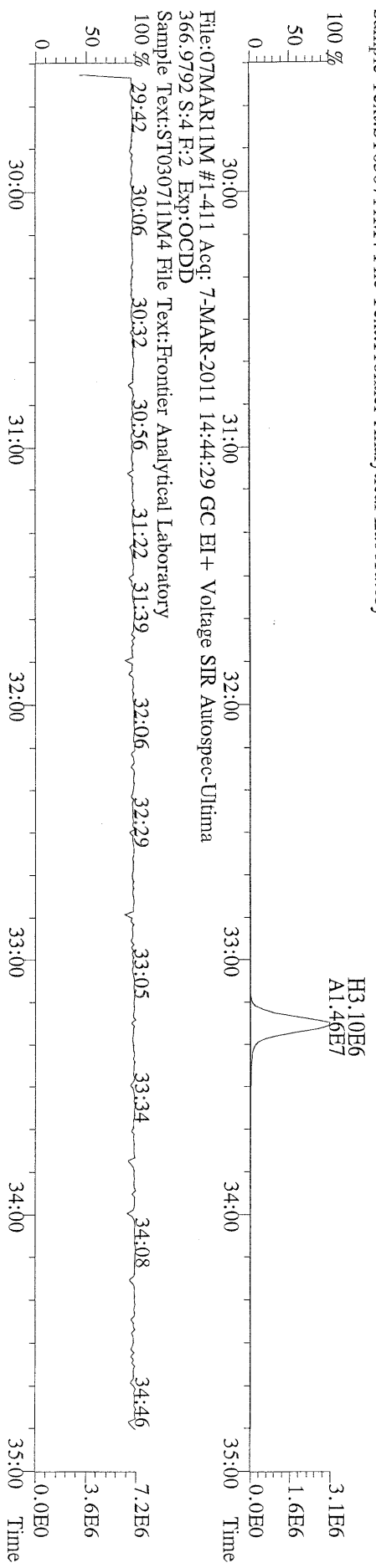
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355.8546 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory  
100 %



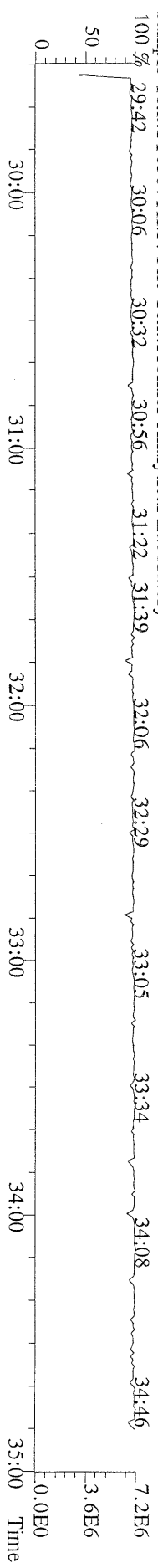
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367.8949 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory  
100 %



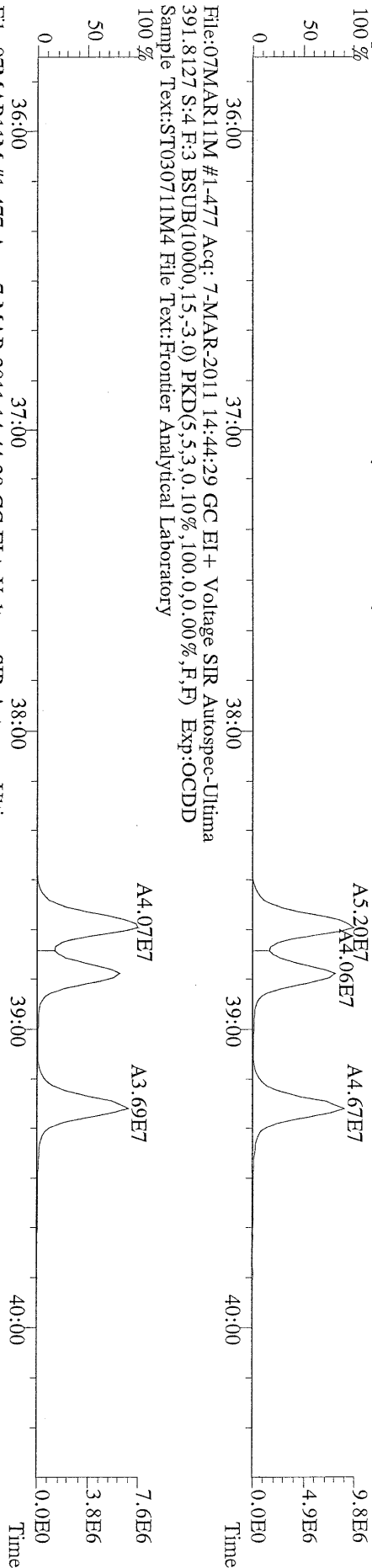
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369.8919 S:4 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



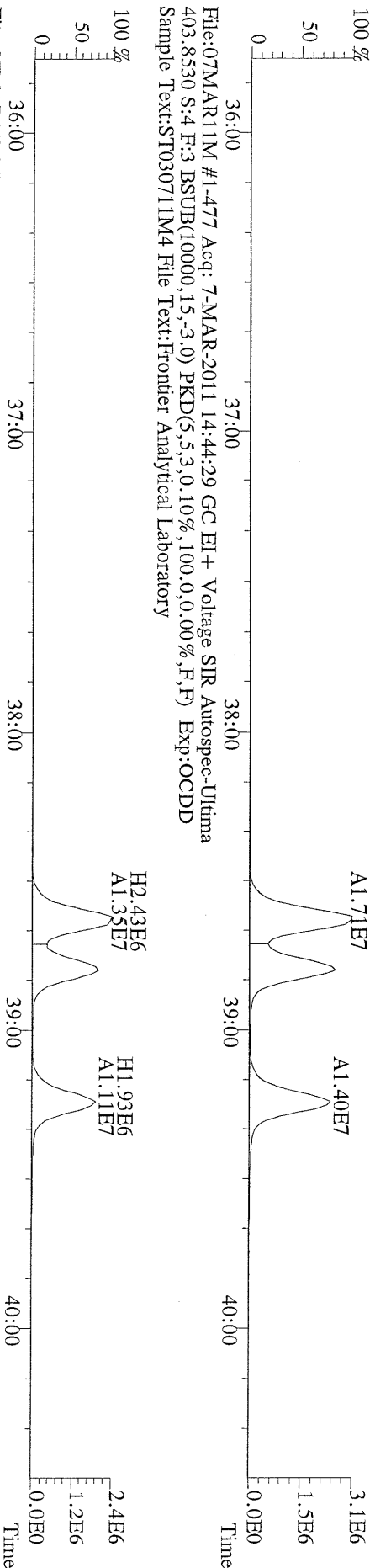
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366.9792 S:4 F:2 Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



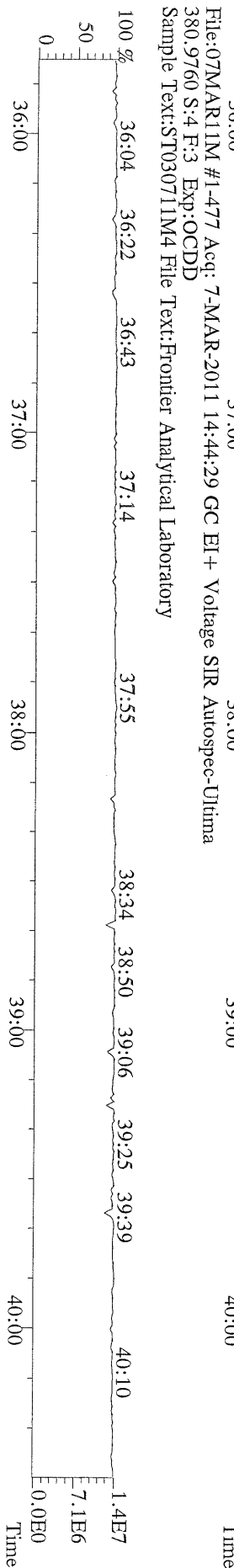
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389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



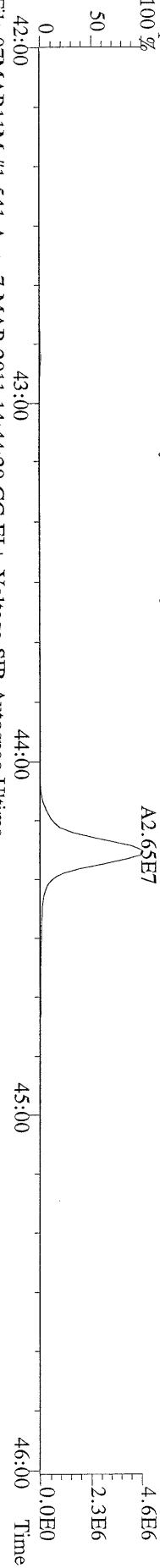
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401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



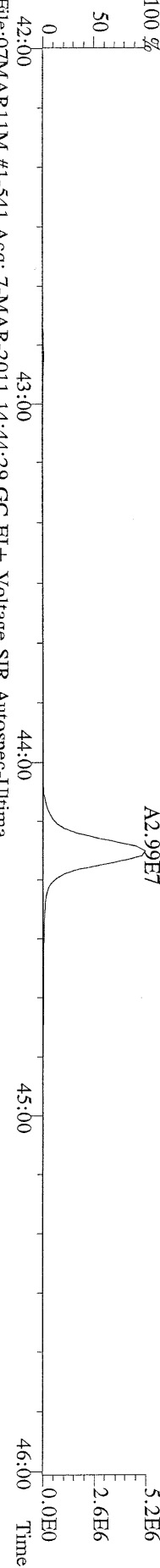
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Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



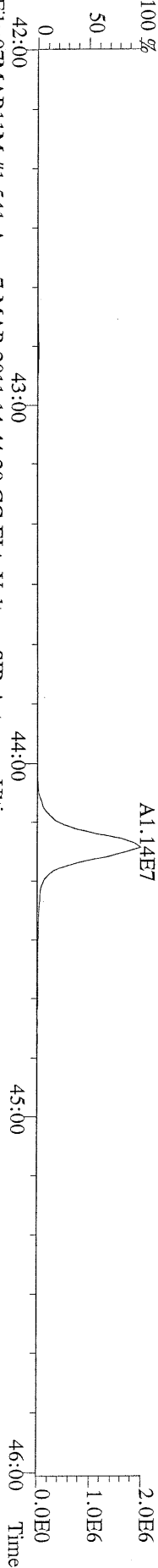
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Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory  
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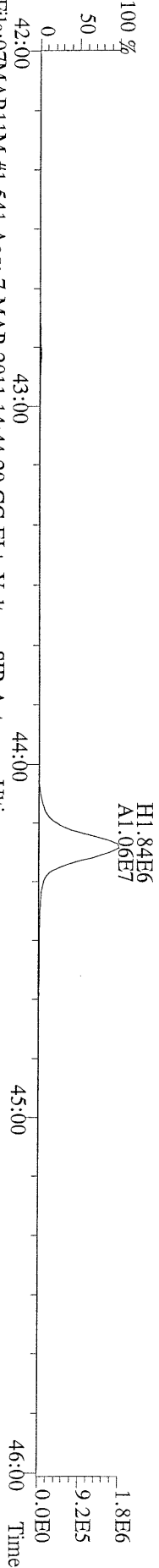
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Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory  
100 %



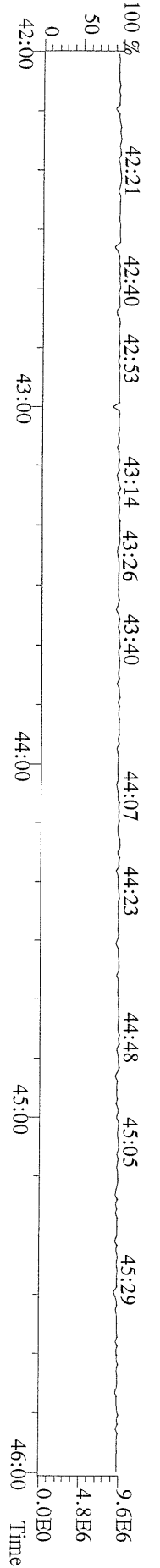
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435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory  
100 %



File:07MAR11M #1-541 Acq: 7-MAR-2011 14:44:29 GC EI+ Voltage SIR Autospec-Utima  
437.8140 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory

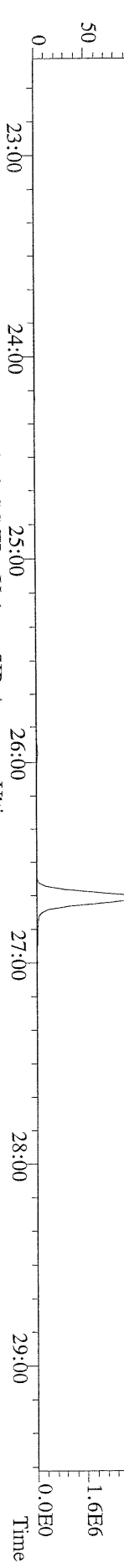


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Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory

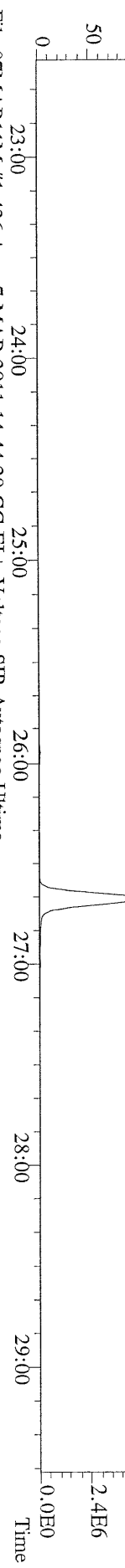




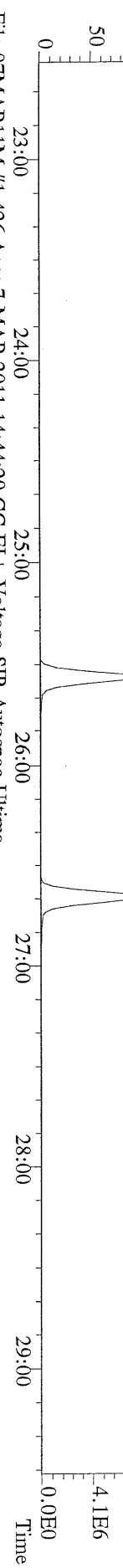
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 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



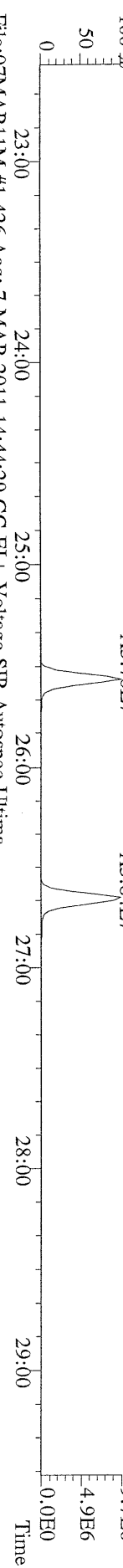
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 305.8987 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



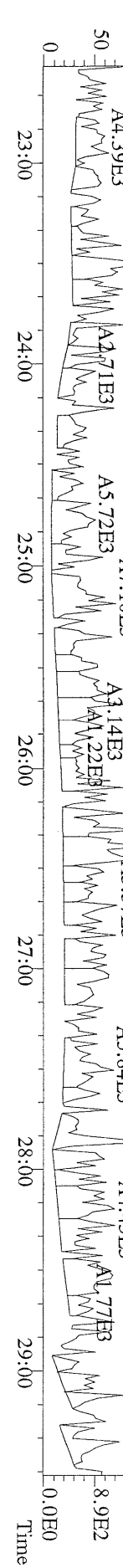
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 315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



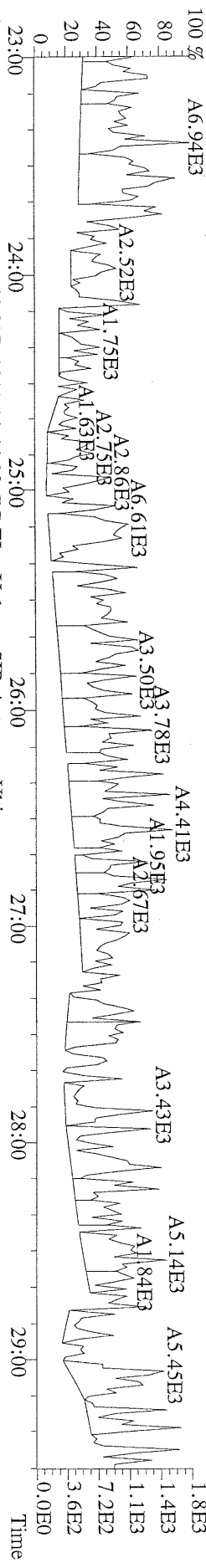
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 317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



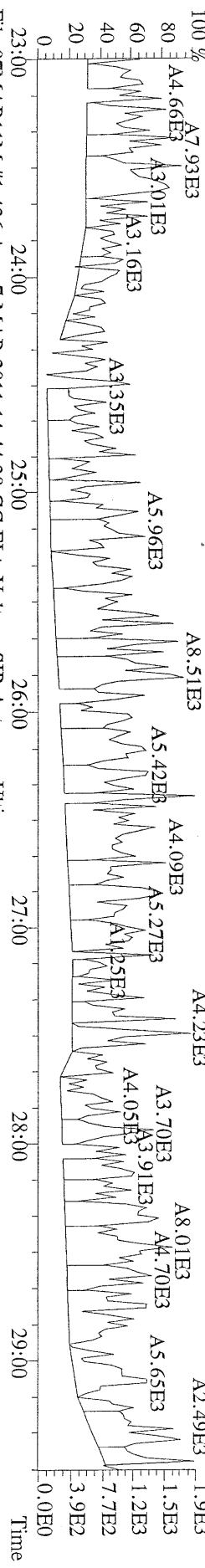
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 375.8364 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



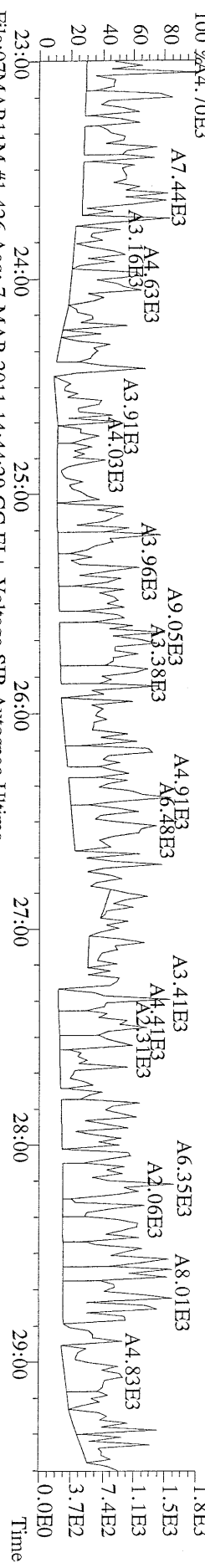
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 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



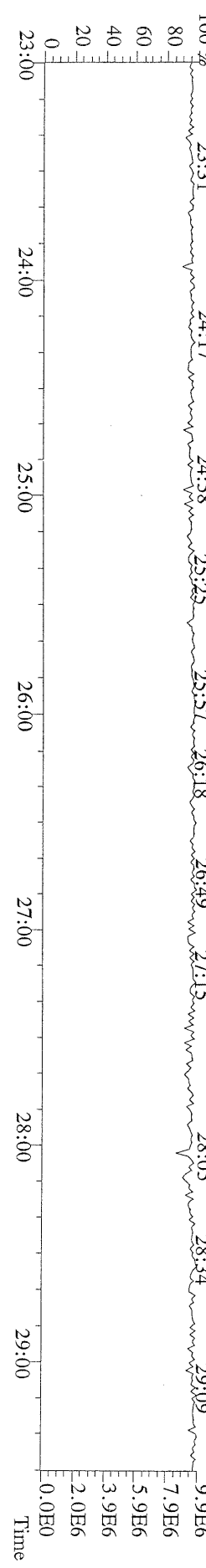
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 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-426 Acq: 7-MAR-2011 14:44:29 GC EI+ Voltage SIR Autospec-Utima  
 409.7974 S:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory

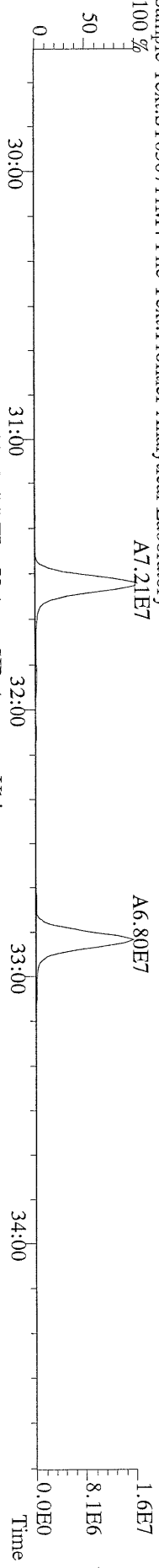


File:07MAR11M #1-426 Acq: 7-MAR-2011 14:44:29 GC EI+ Voltage SIR Autospec-Utima  
 316.9824 S:4 Exp:OCDD  
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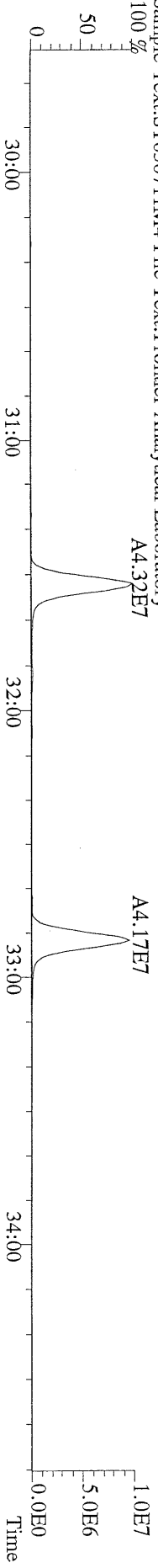




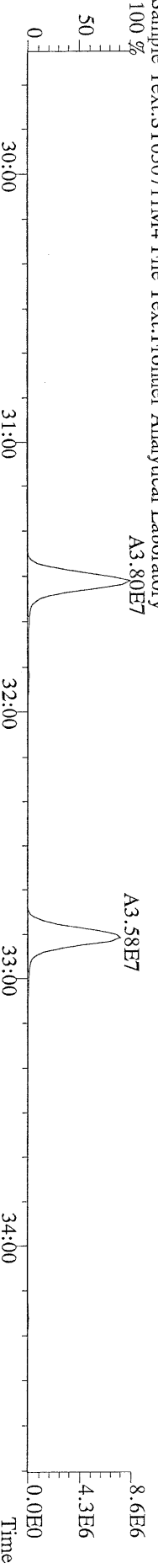
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 339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



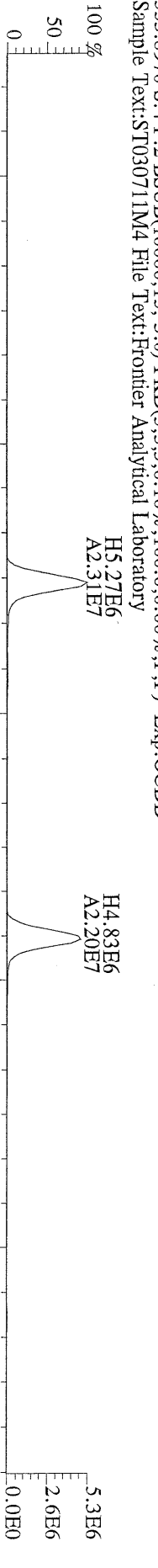
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 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



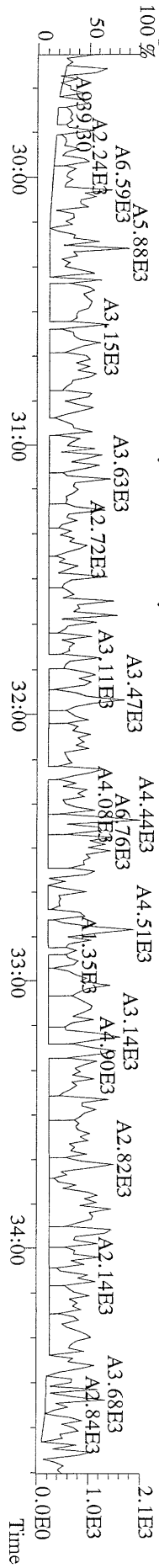
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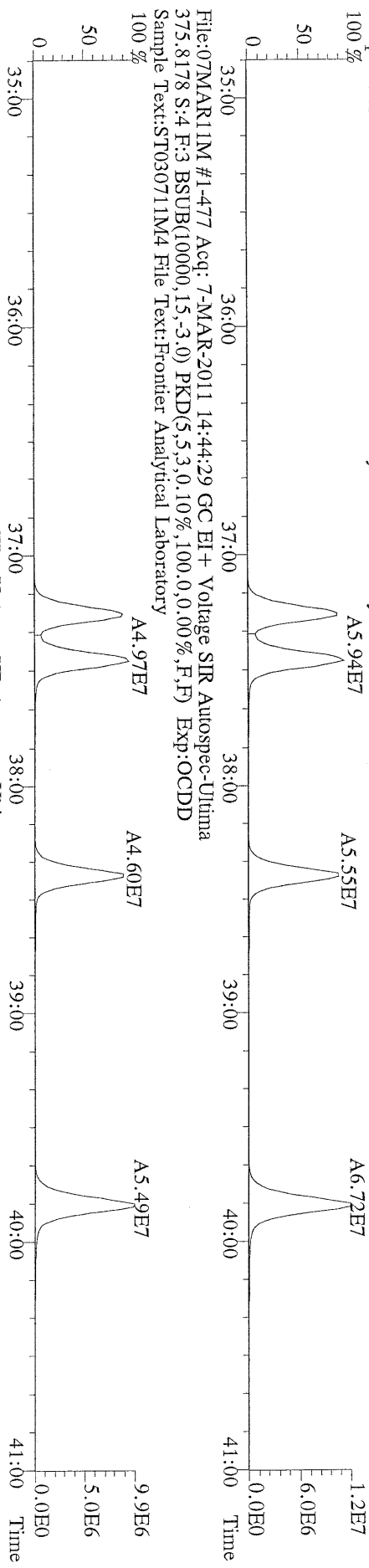
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 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



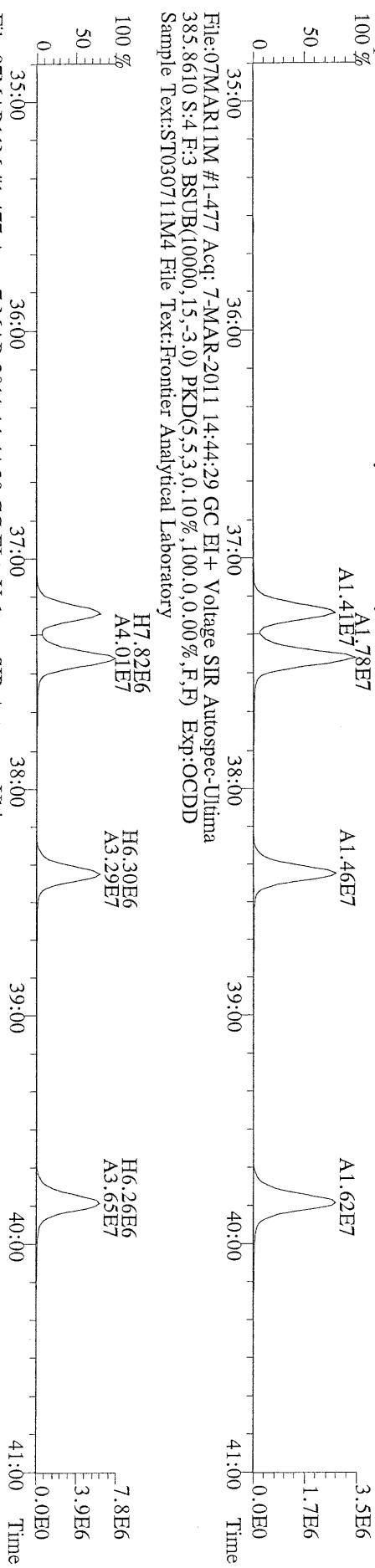
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 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



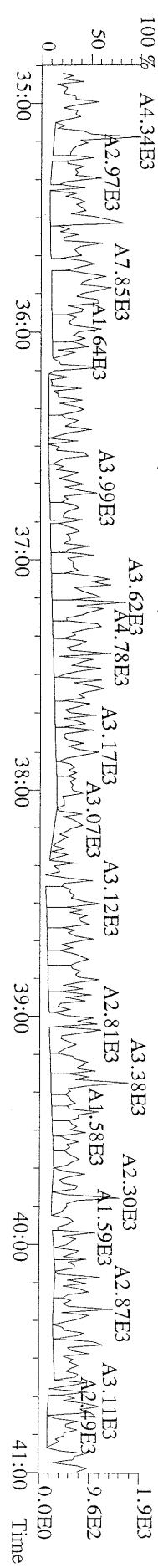
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 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



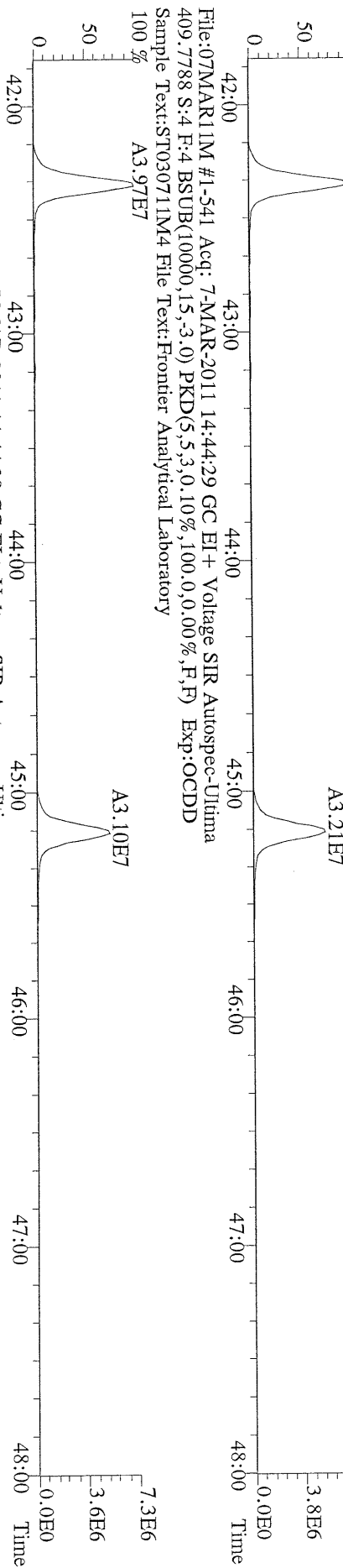
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 383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



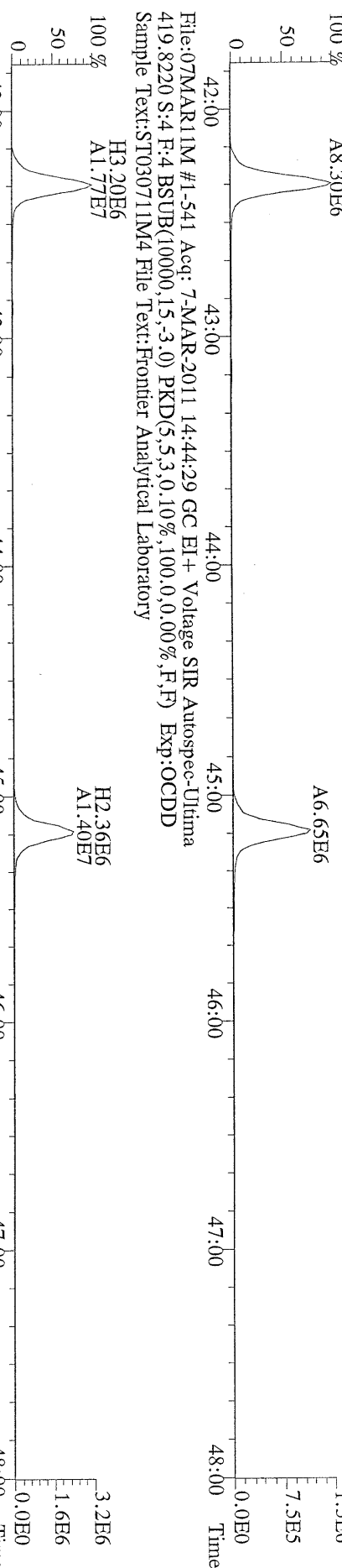
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 Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



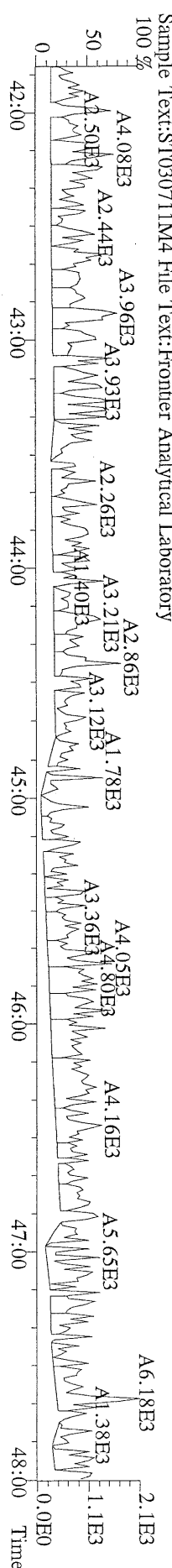
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Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory  
100 %



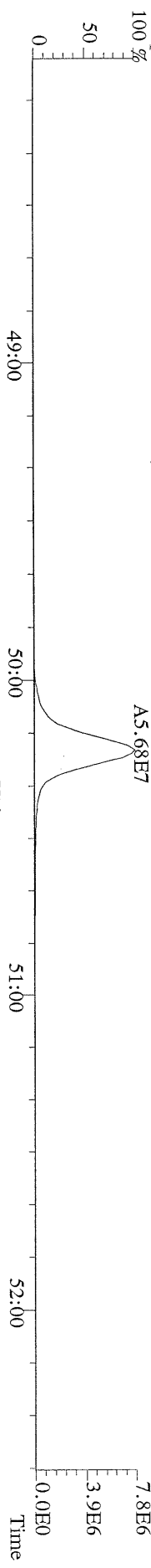
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417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory  
100 %



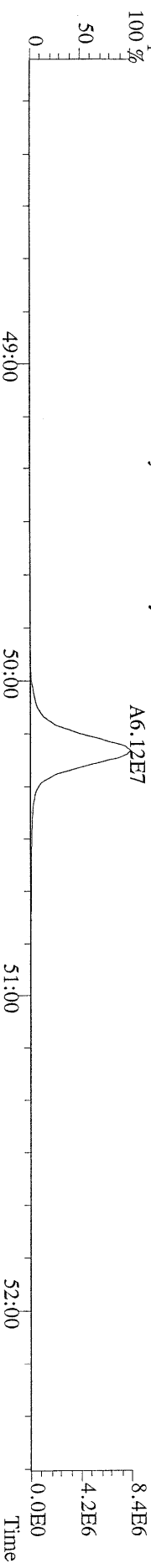
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419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory  
100 %



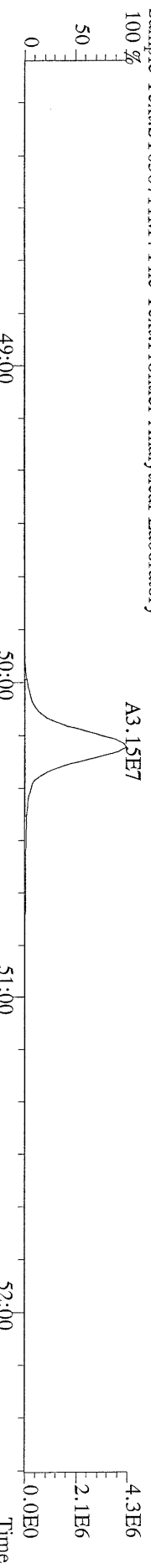
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441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



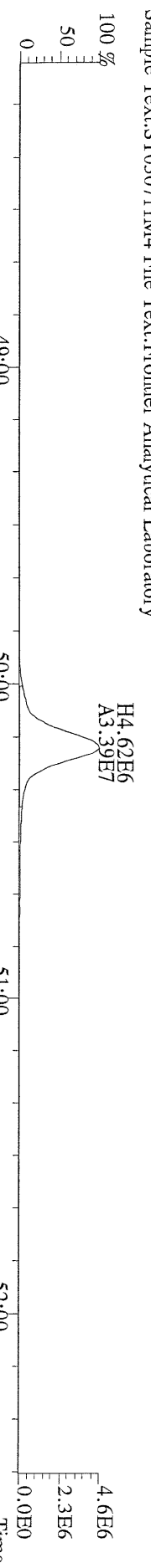
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443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



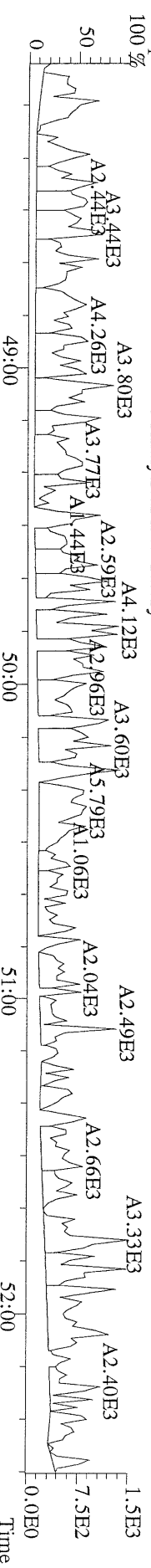
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453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



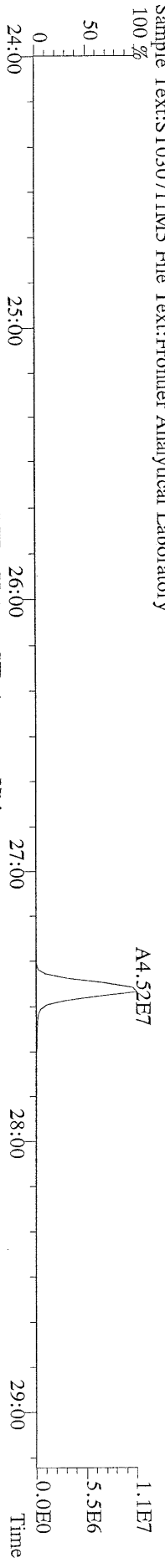
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455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



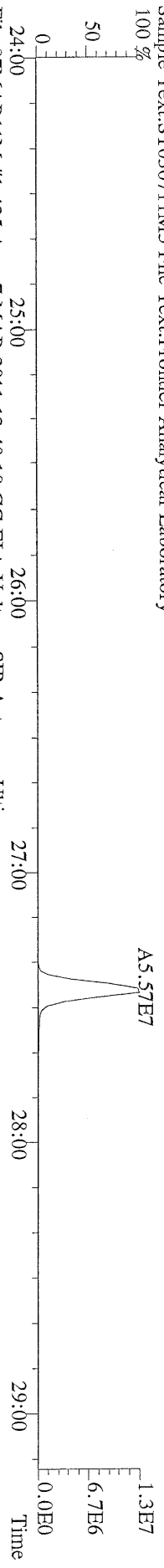
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513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M4 File Text:Frontier Analytical Laboratory



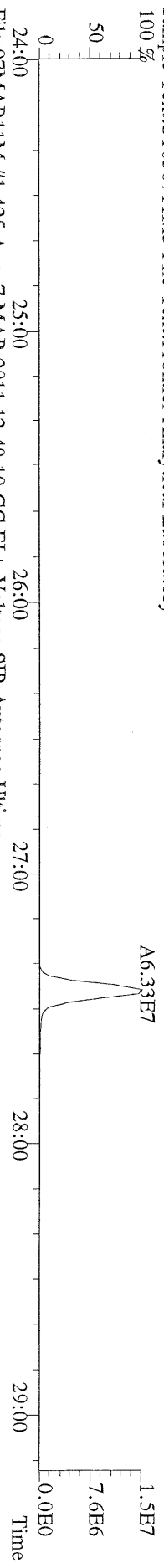
File:07MAR11M #1-425 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
319.8965 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory  
100 %



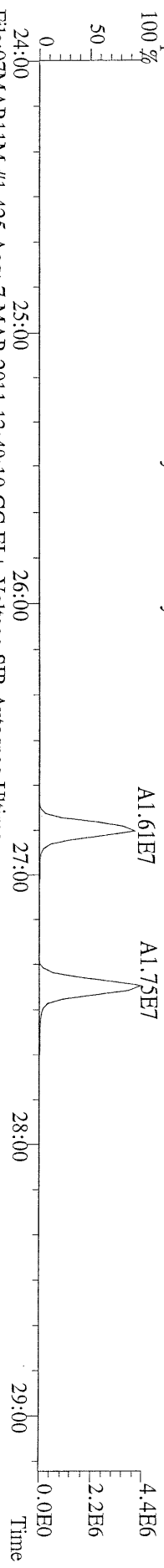
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321.8936 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory  
100 %



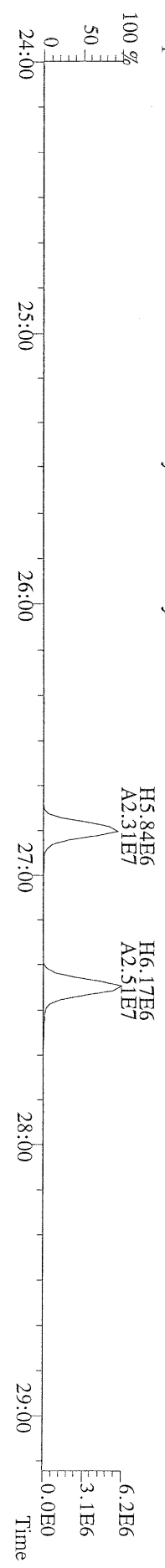
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327.8847 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory  
100 %



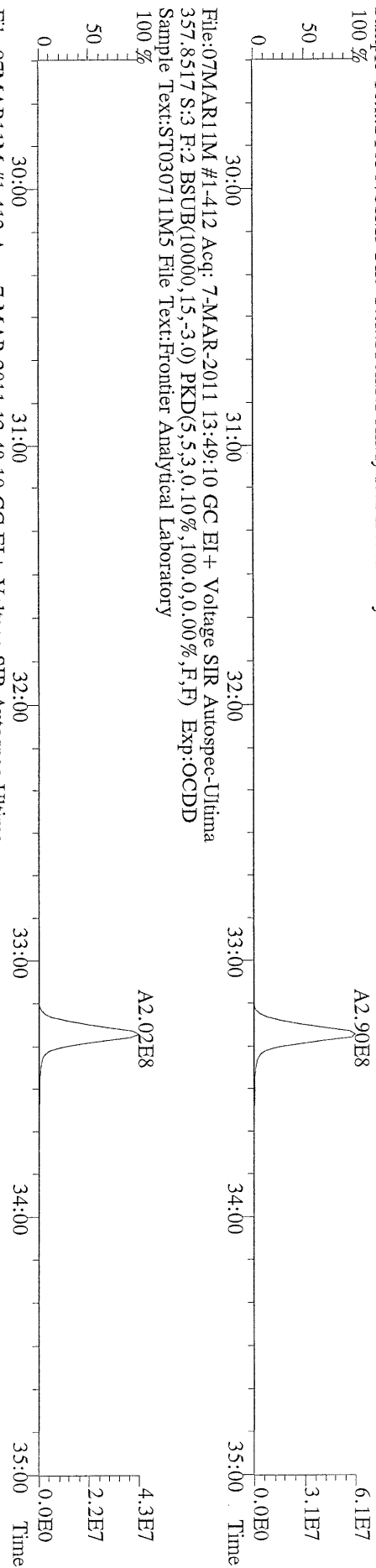
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331.9368 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory  
100 %



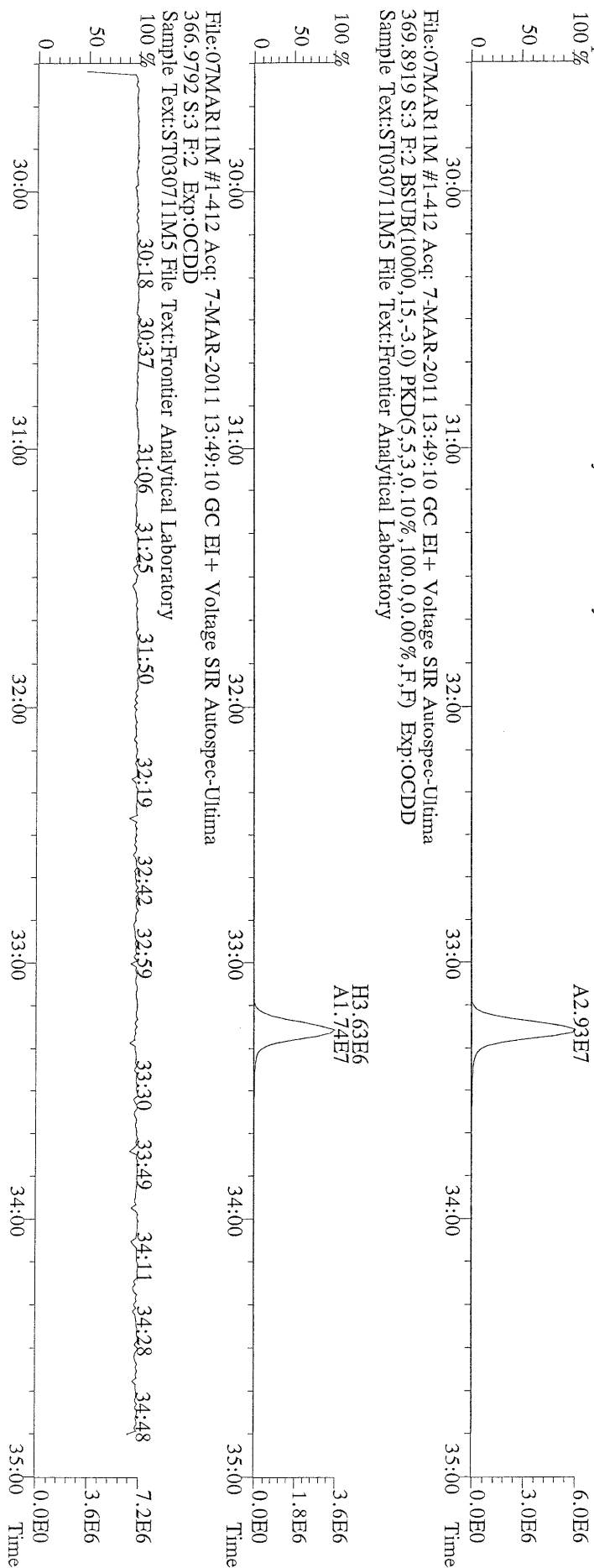
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333.9339 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



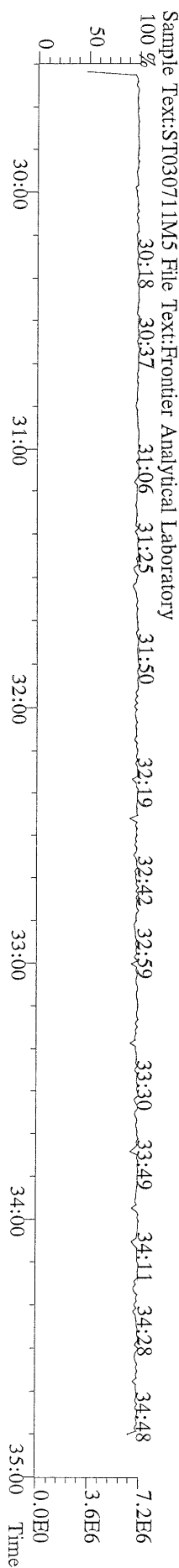
File:07MAR11M #1-412 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



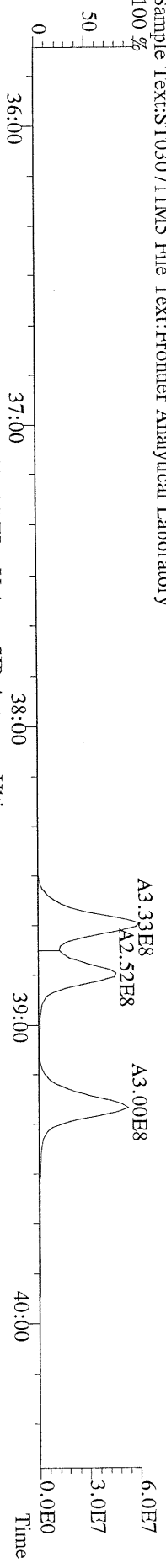
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367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



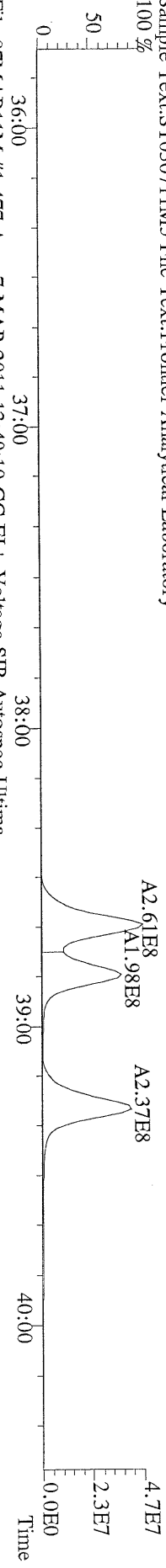
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366.9792 S:3 F:2 Exp:OCDD



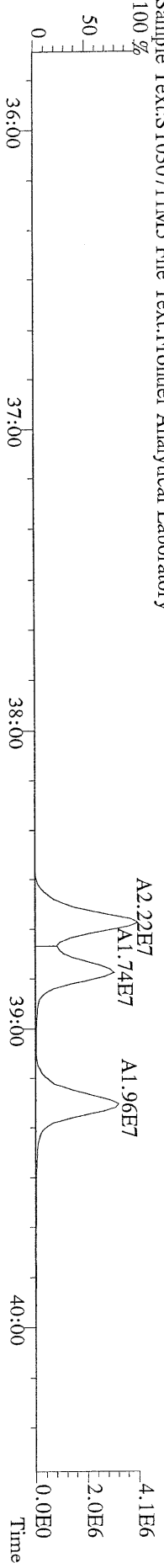
File:07MAR11M #1-477 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 389.8156 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



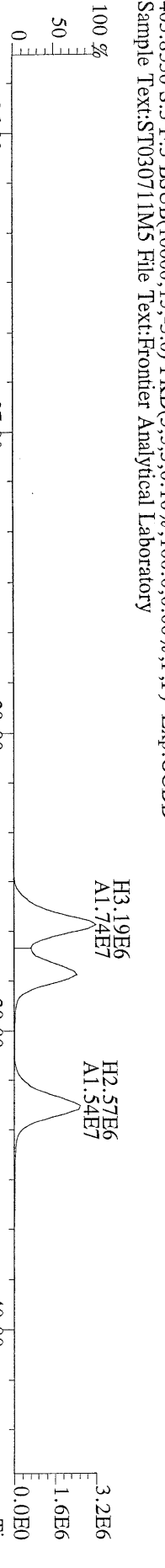
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 391.8127 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



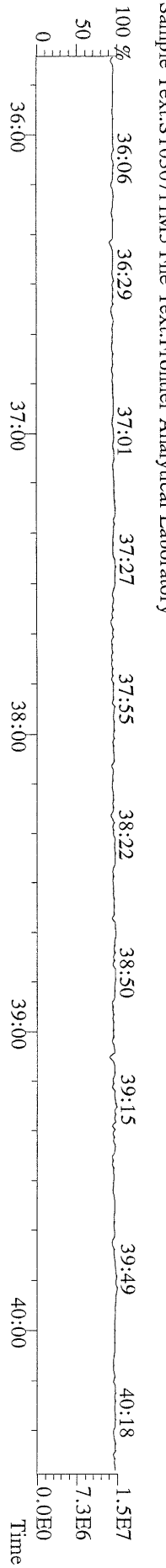
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 401.8559 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



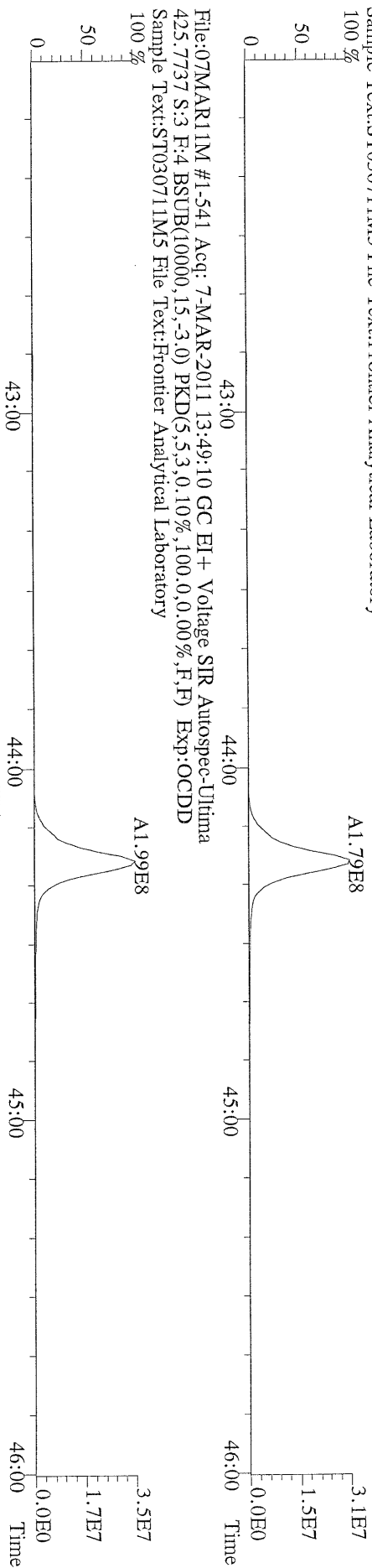
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 403.8530 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



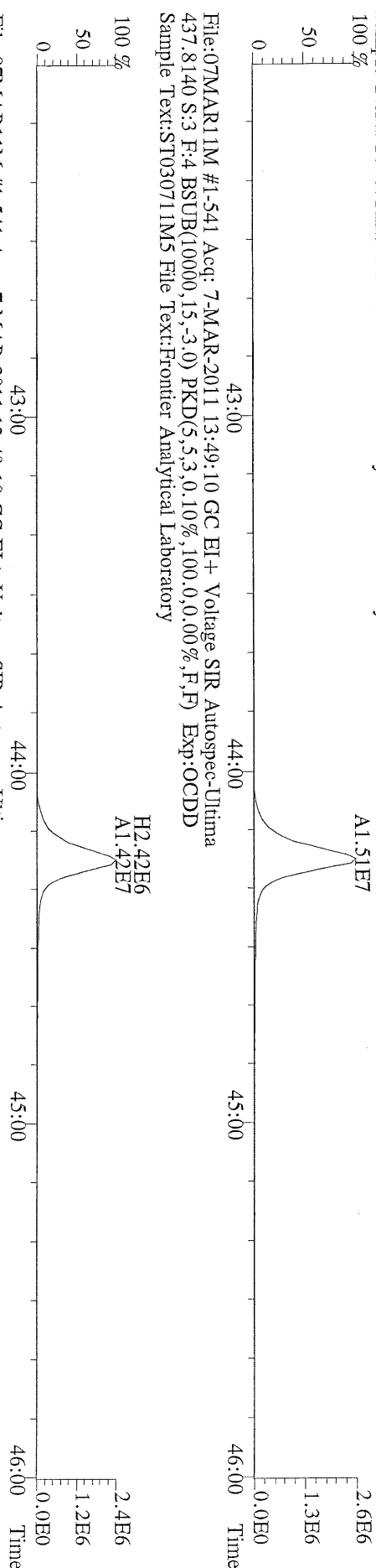
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 380.9760 S:3 F:3 Exp:OCDD  
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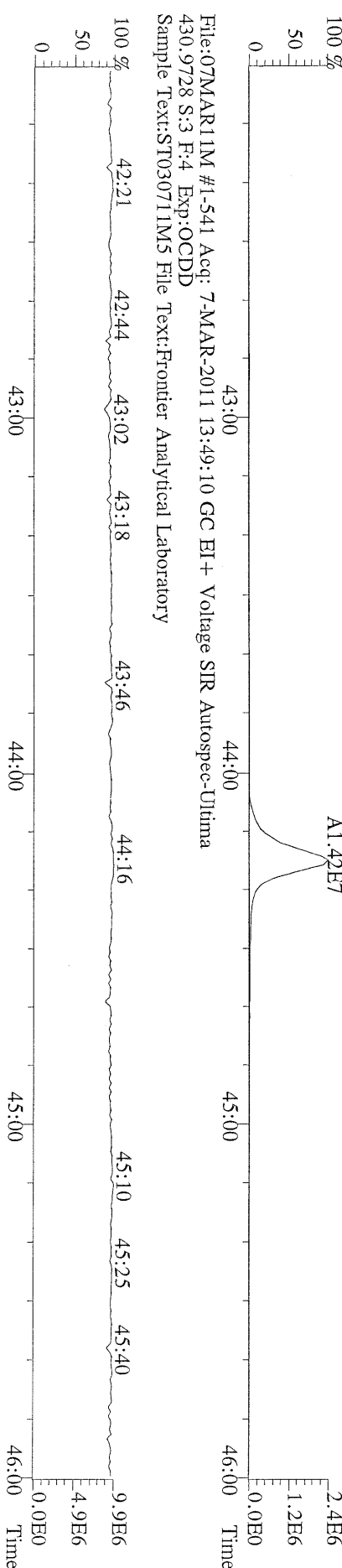
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423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



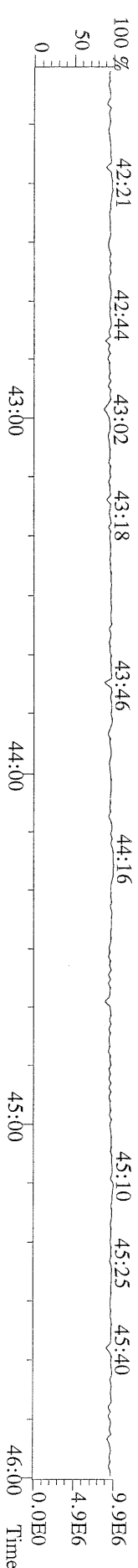
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435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



File:07MARI1M #1-541 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
437.8140 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory

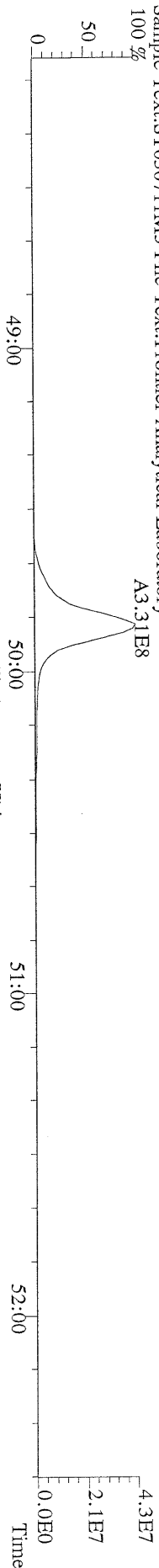


File:07MARI1M #1-541 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
430.9728 S:3 F:4 Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory

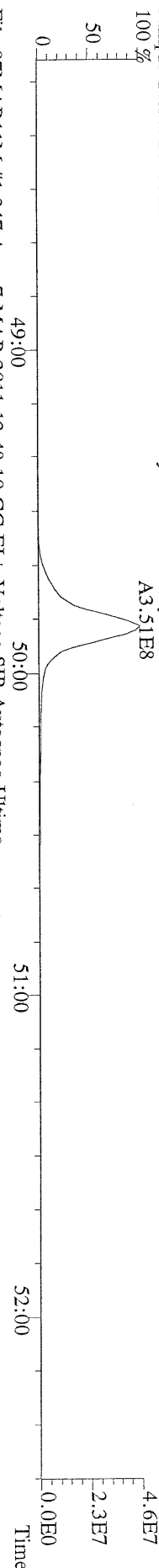




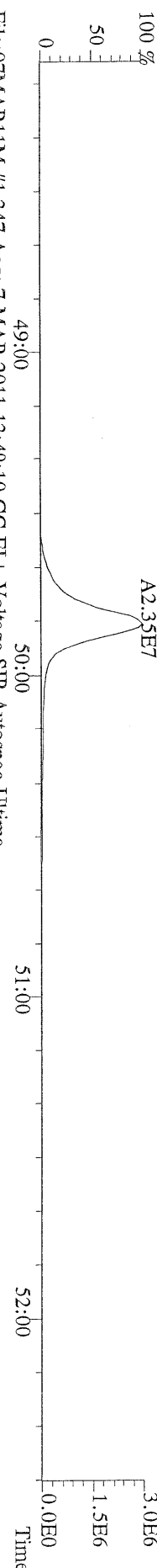
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457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



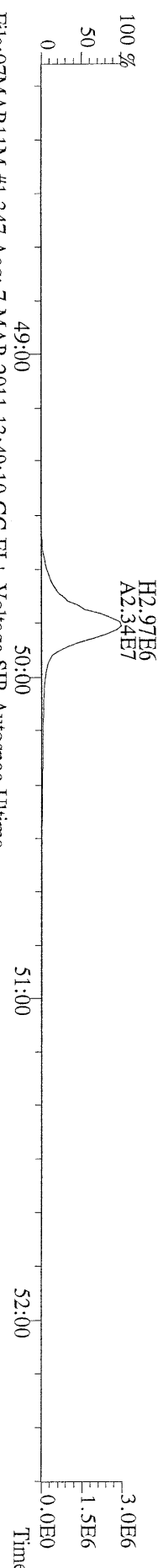
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459.7348 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



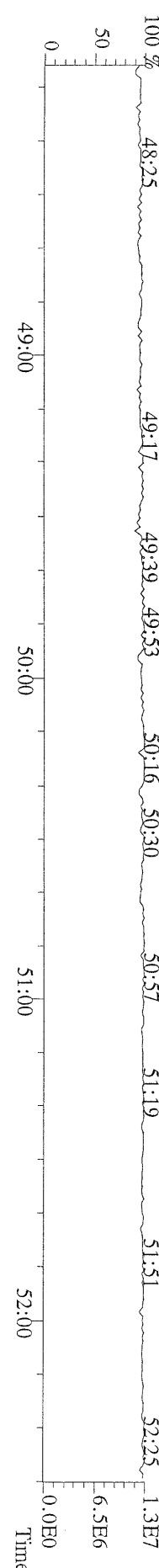
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469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



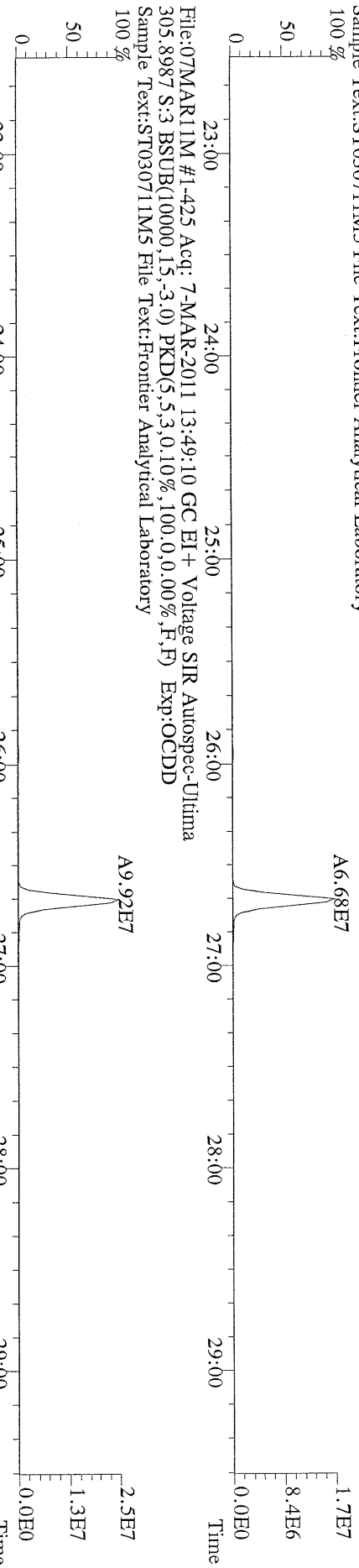
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Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



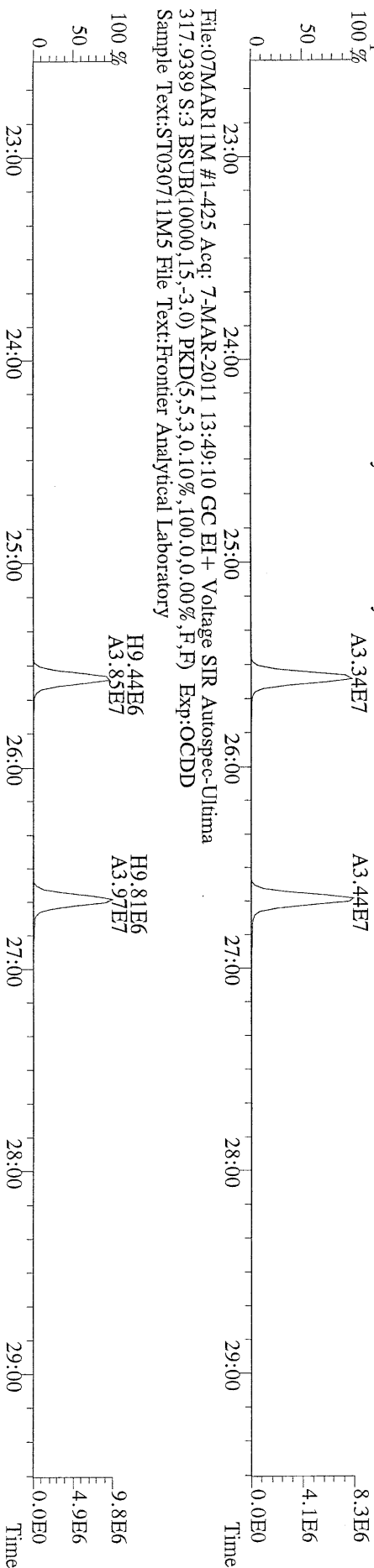
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Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



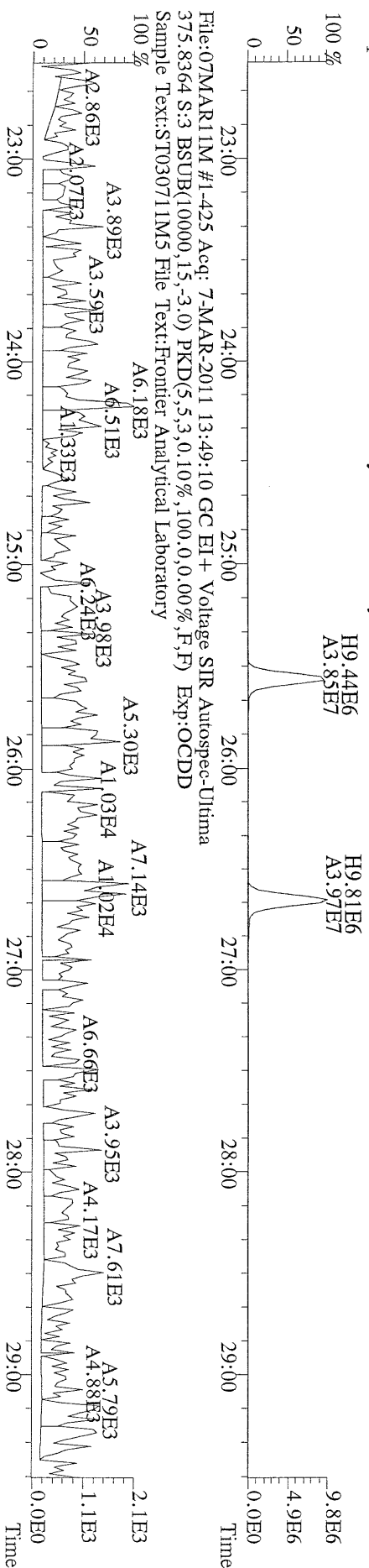
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 303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



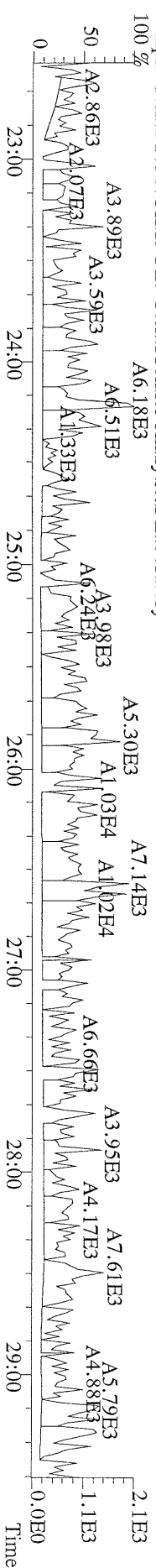
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 315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
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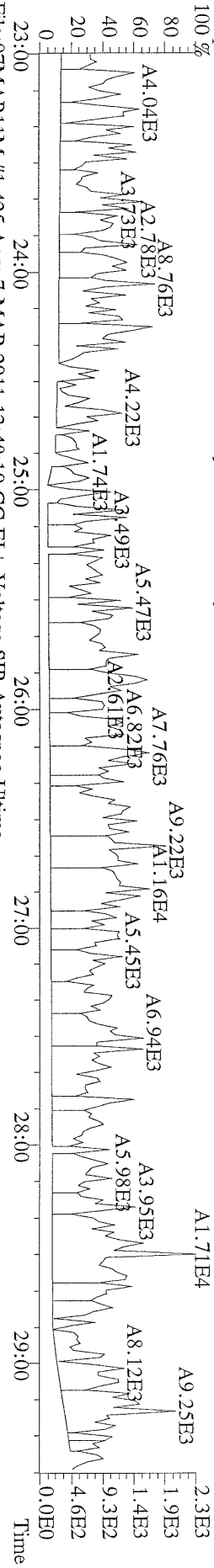
File:07MAR11M #1-425 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



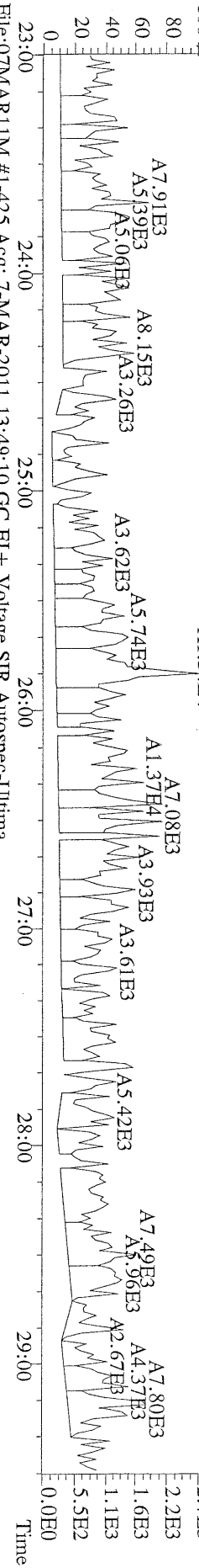
File:07MAR11M #1-425 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 375.8364 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



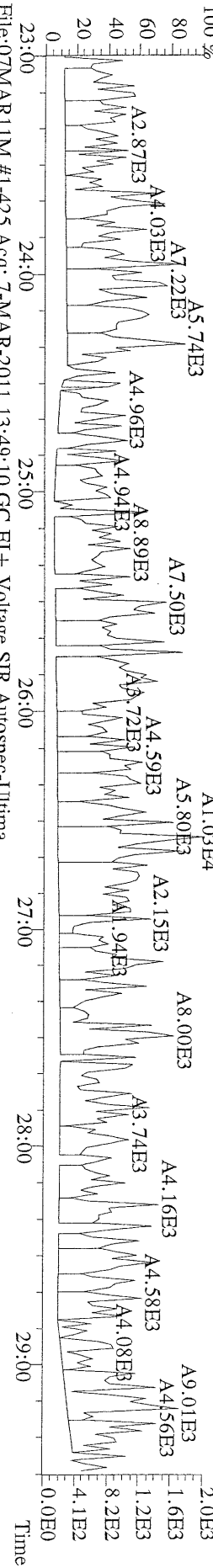
File:07MARI1M #1-425 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



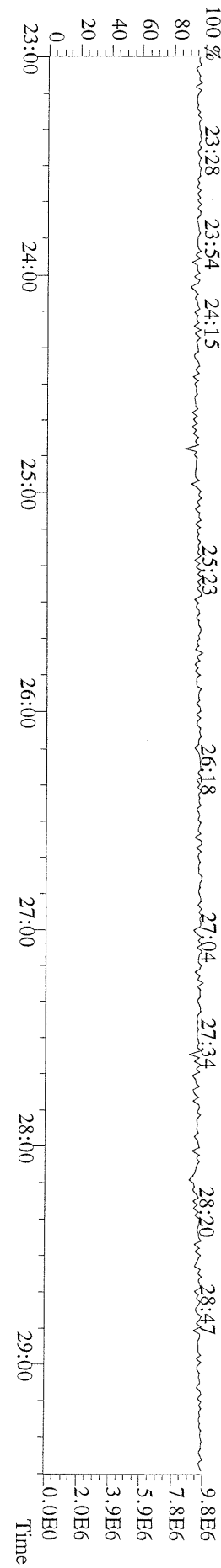
File:07MARI1M #1-425 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



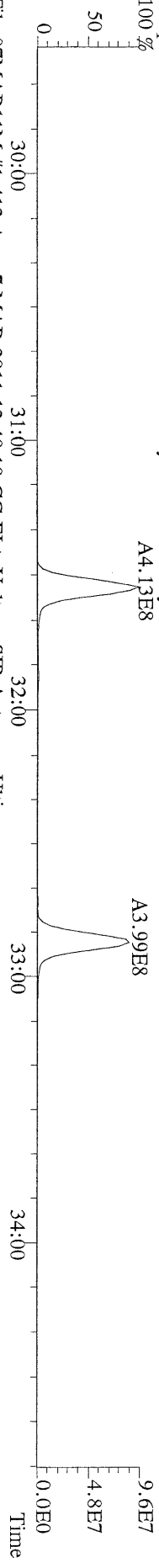
File:07MARI1M #1-425 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:3 BSUB(10000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



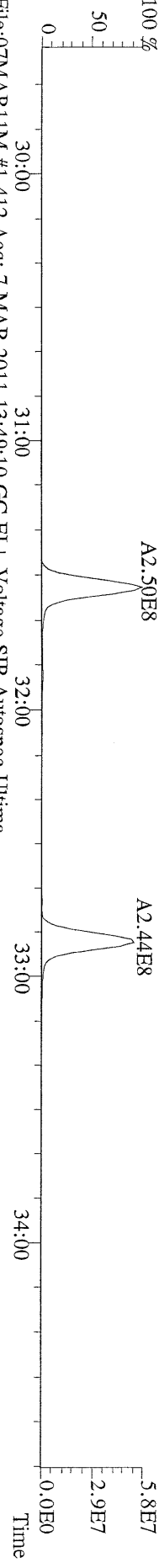
File:07MARI1M #1-425 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 316.9824 S:3 Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



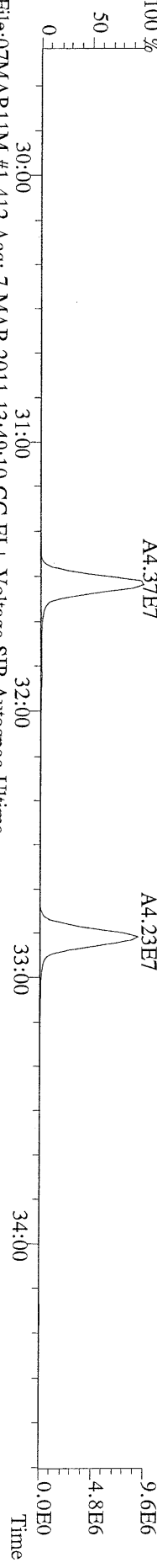
File:07MARI1M #1-412 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory  
 100 %



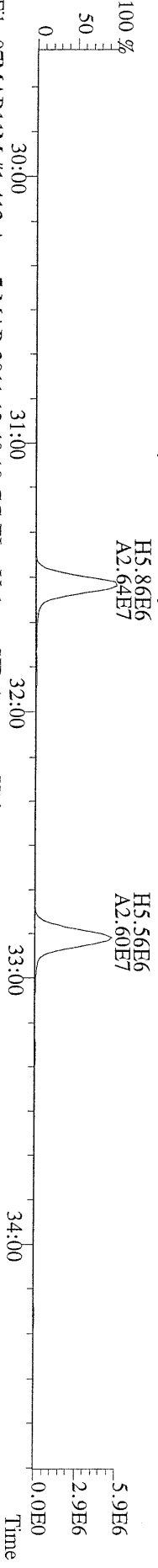
File:07MARI1M #1-412 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 341.8568 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory  
 100 %



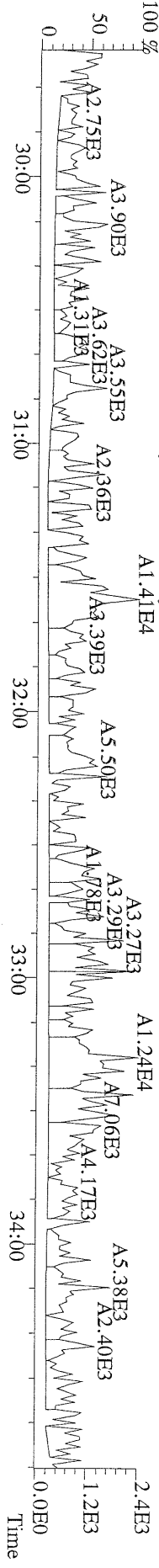
File:07MARI1M #1-412 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory  
 100 %



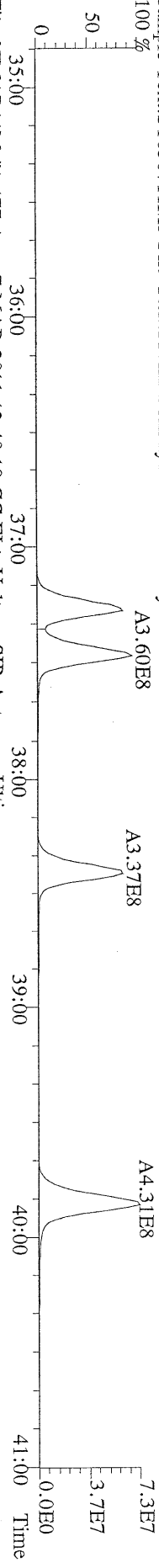
File:07MARI1M #1-412 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 353.8970 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



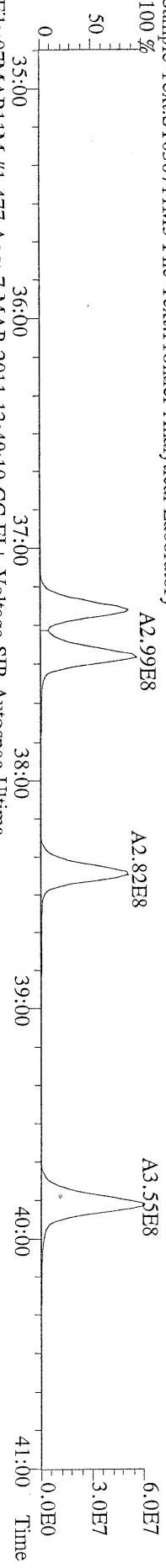
File:07MARI1M #1-412 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 409.7974 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory  
 100 %



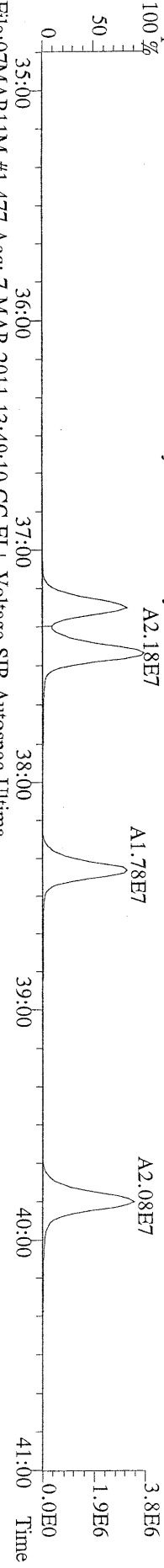
File:07MAR11M #1-477 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



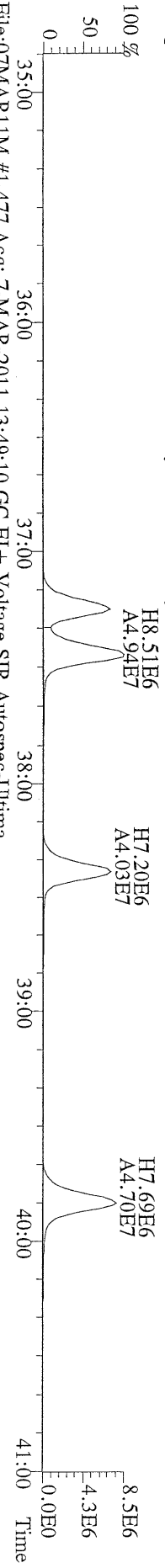
File:07MAR11M #1-477 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 375.8178 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



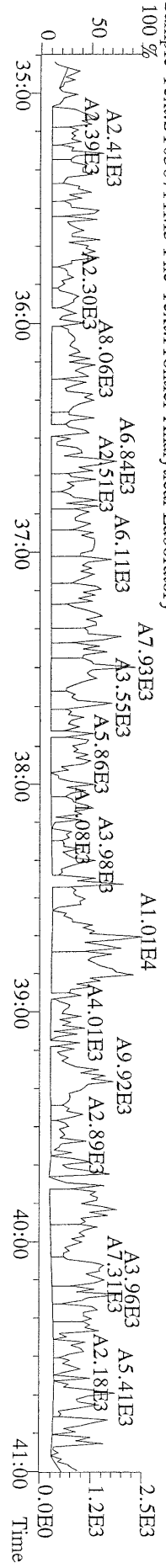
File:07MAR11M #1-477 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory



File:07MAR11M #1-477 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 385.8610 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory

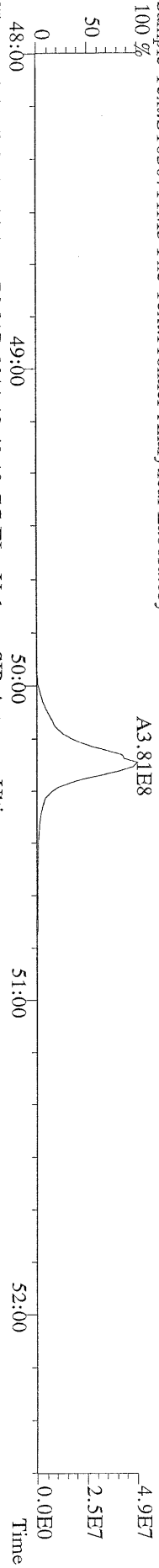


File:07MAR11M #1-477 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
 445.7555 S:3 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
 Sample Text:ST030711M5 File Text:Frontier Analytical Laboratory

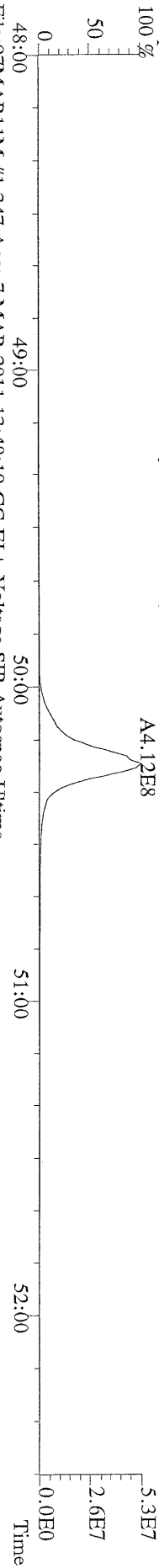




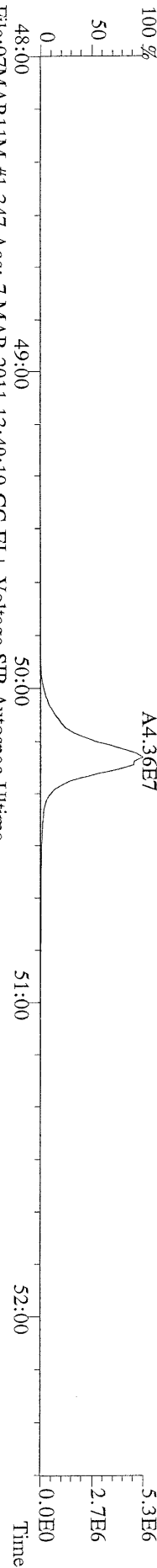
File:07MAR11M #1-347 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
441.7428 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Fronter Analytical Laboratory



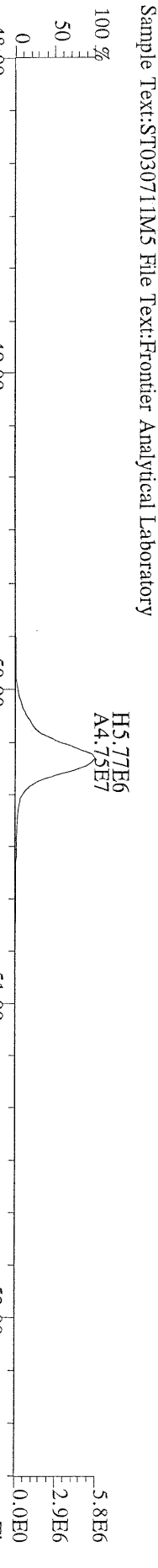
File:07MAR11M #1-347 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
443.7398 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Fronter Analytical Laboratory



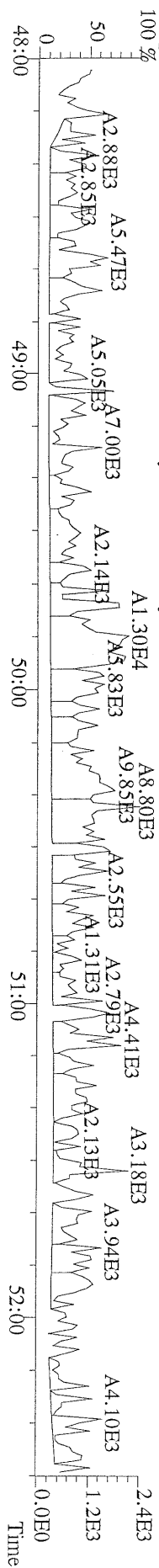
File:07MAR11M #1-347 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Fronter Analytical Laboratory



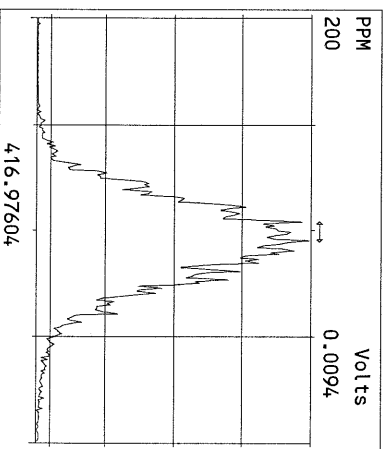
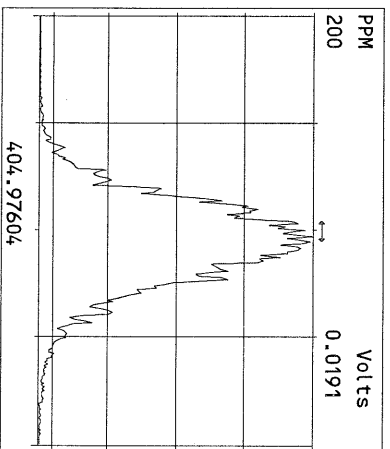
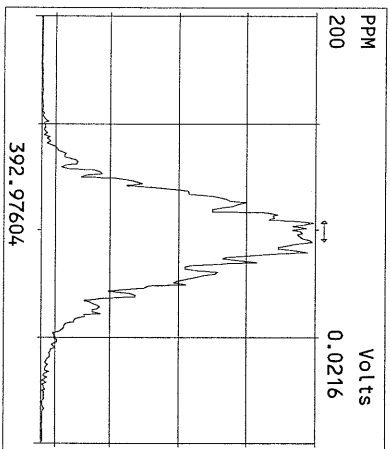
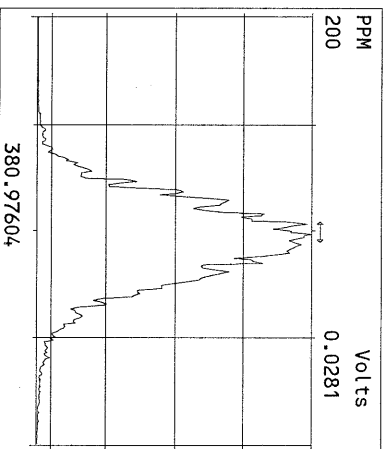
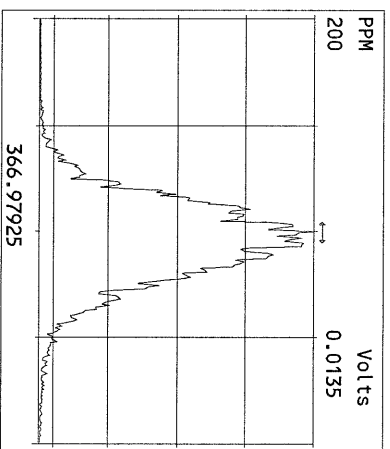
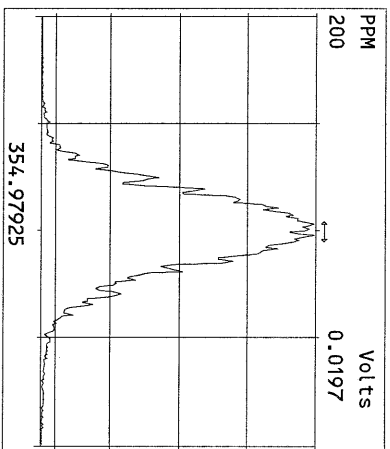
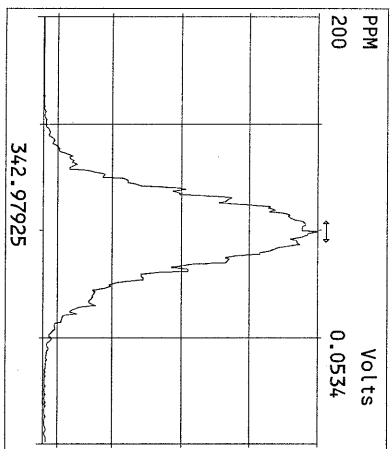
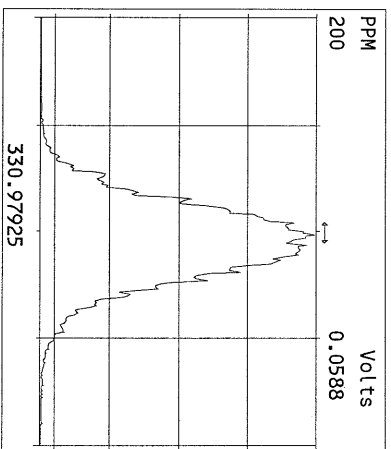
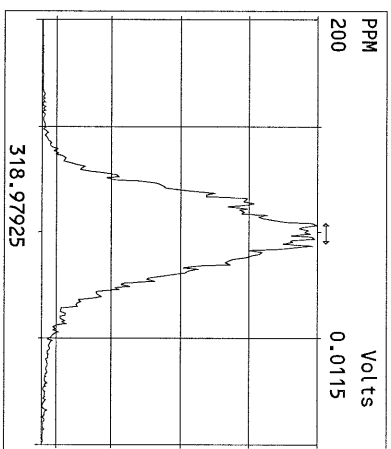
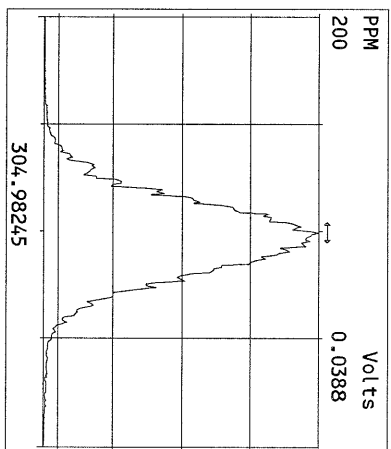
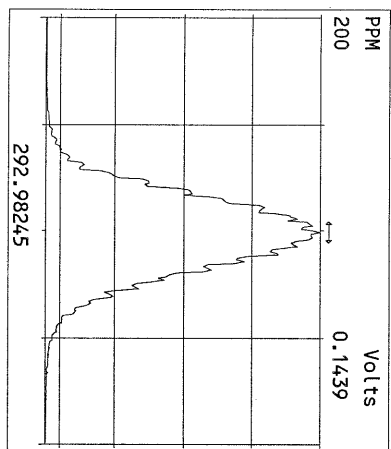
File:07MAR11M #1-347 Acq: 7-MAR-2011 13:49:10 GC EI+ Voltage SIR Autospec-Ultima  
455.7801 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Fronter Analytical Laboratory



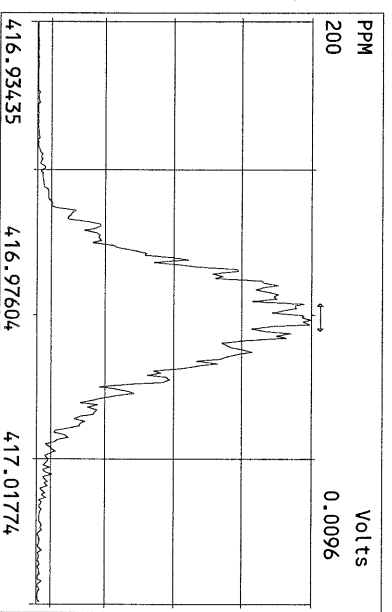
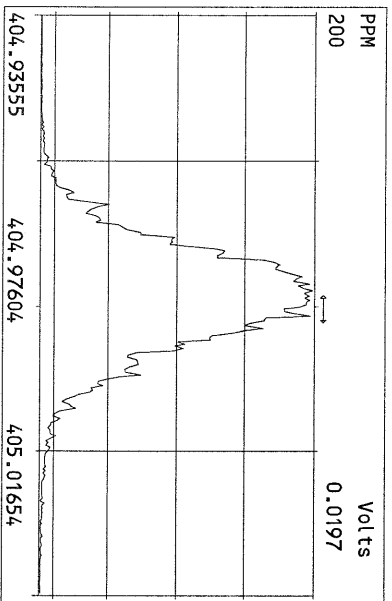
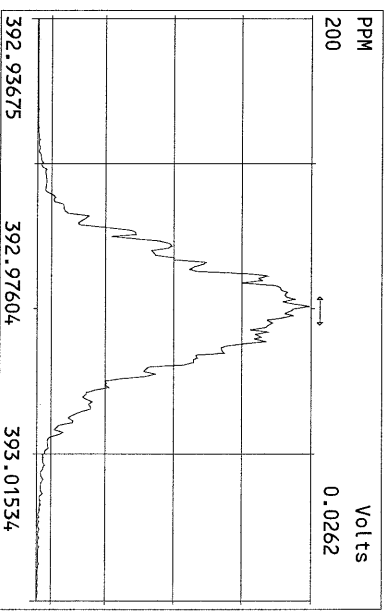
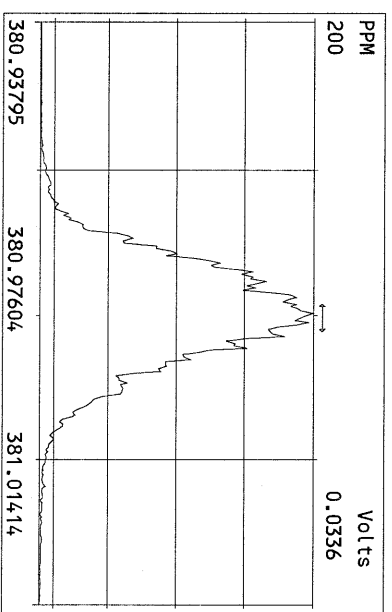
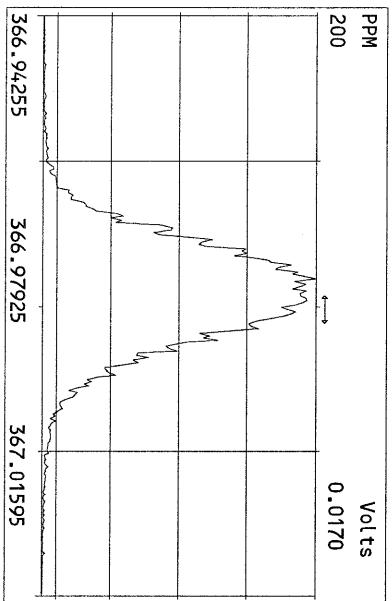
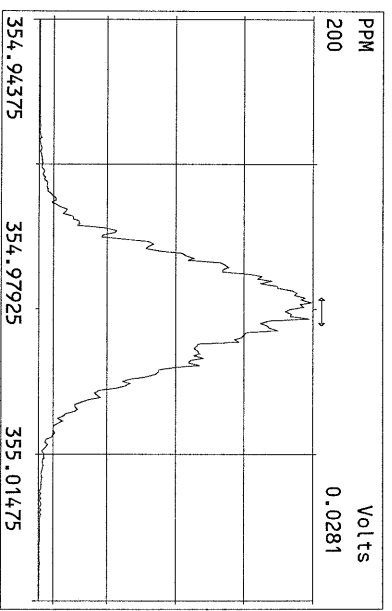
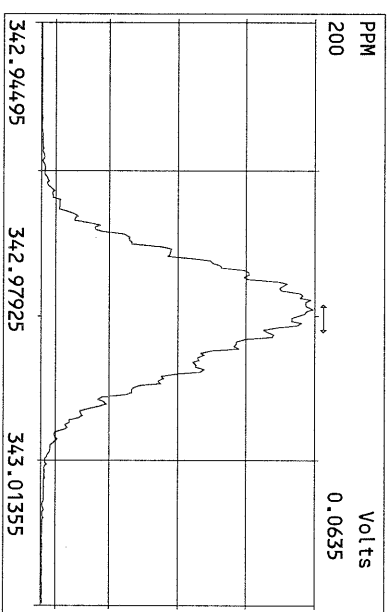
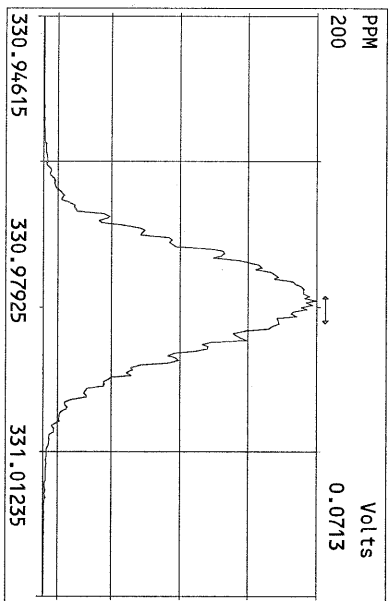
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513.6775 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST030711M5 File Text:Fronter Analytical Laboratory

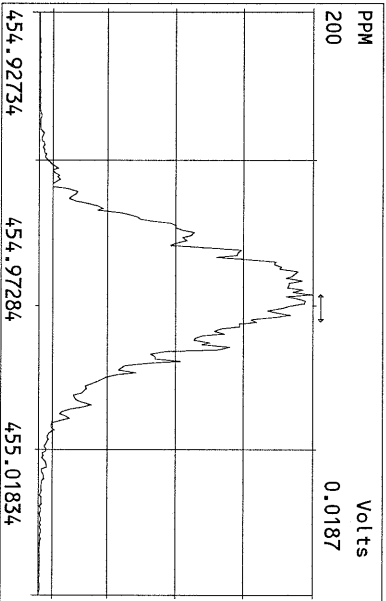
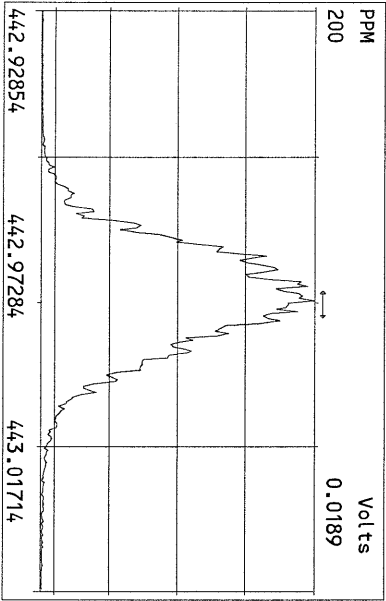
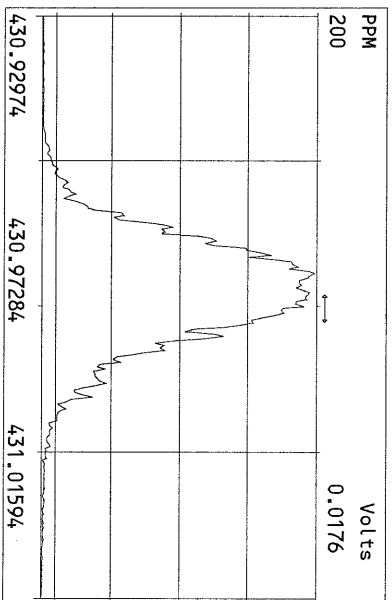
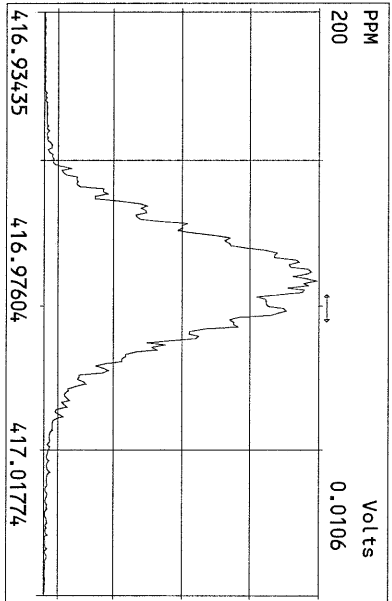
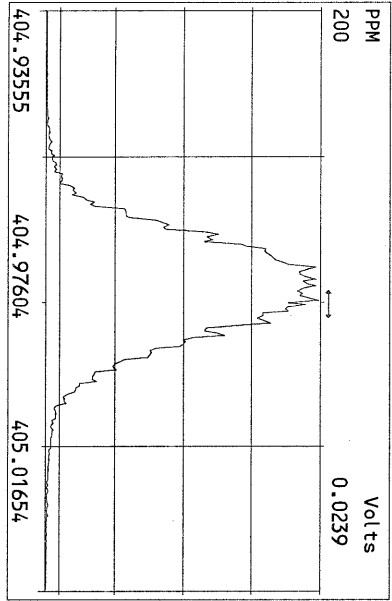
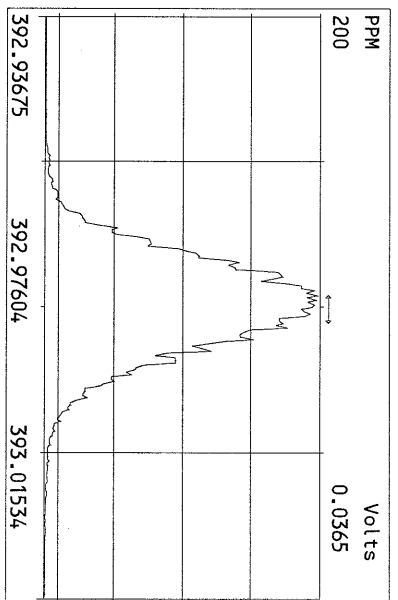
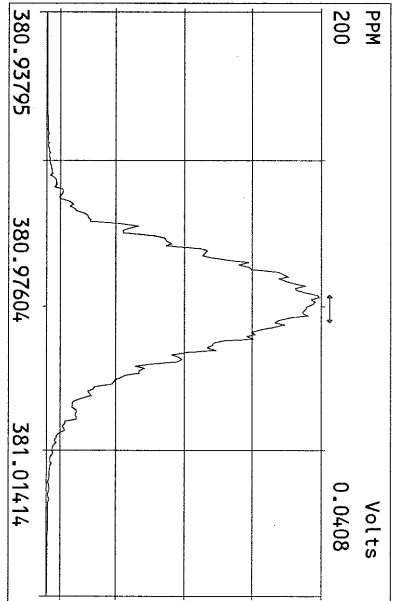
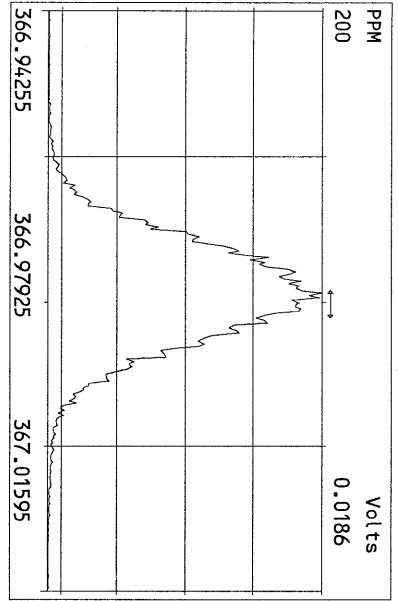


Peak Locate Examination: 8-MAR-2011:08:18 File:07MAR11M\_RES\_CHECK  
Experiment:OCDD Function:1 Reference:PFK

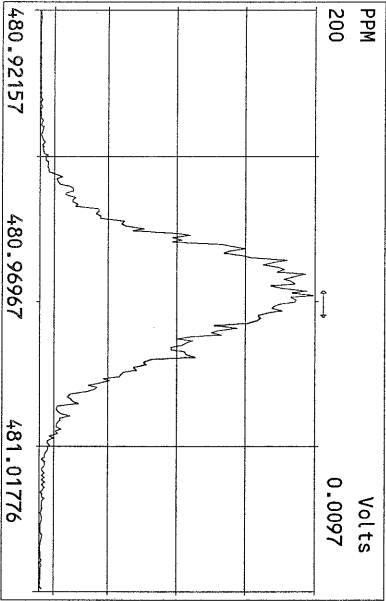
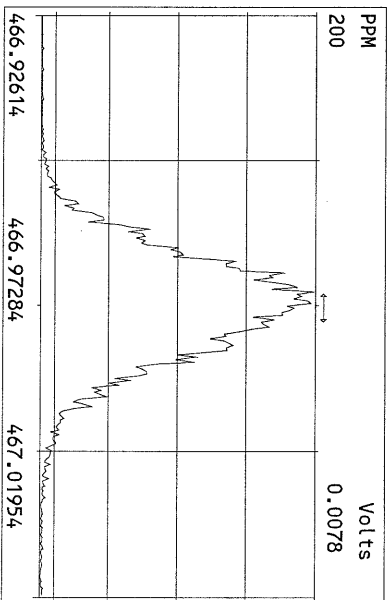
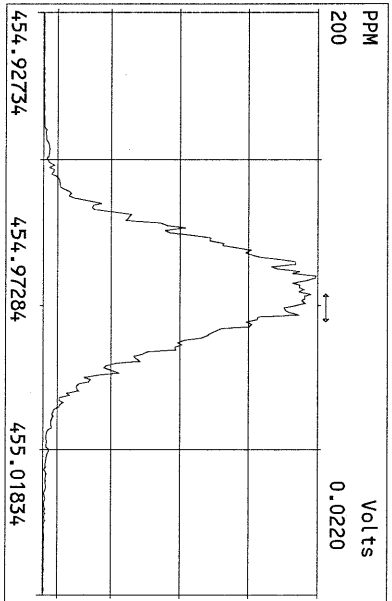
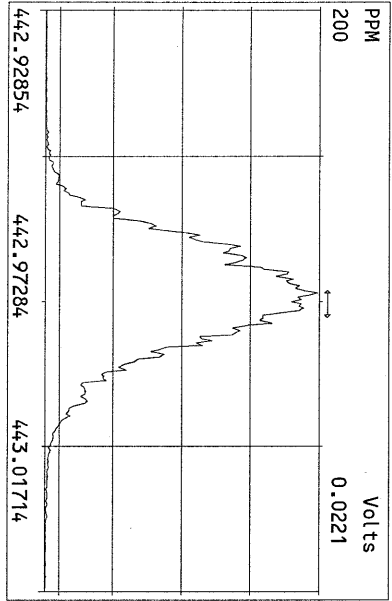
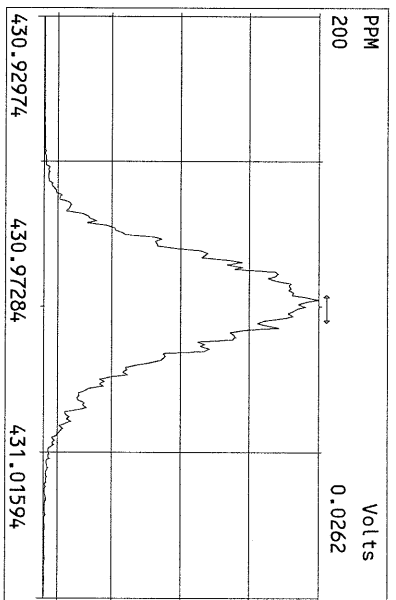
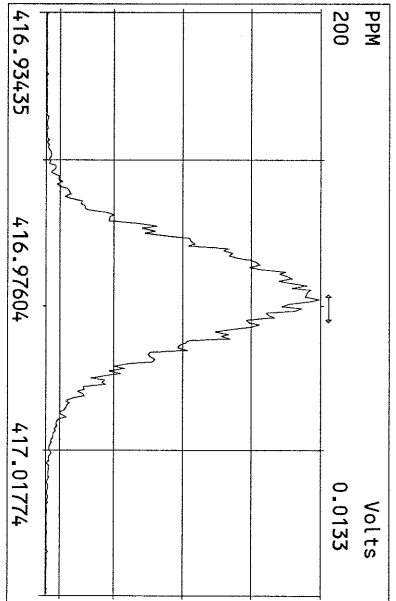
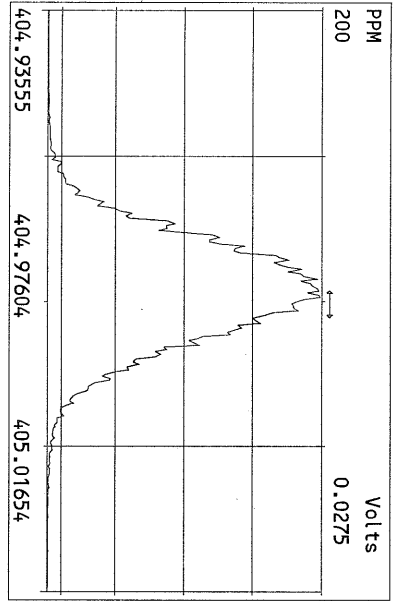


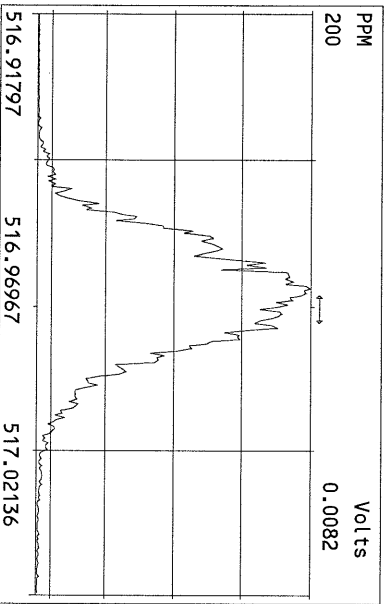
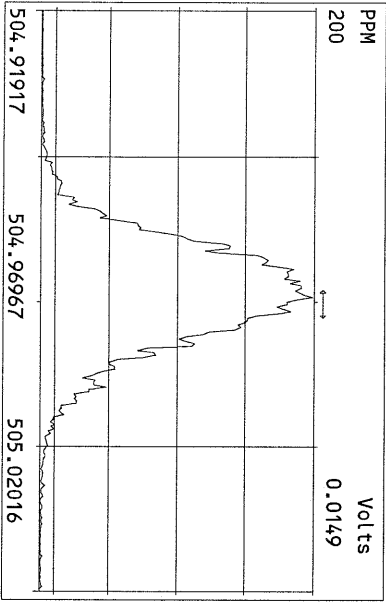
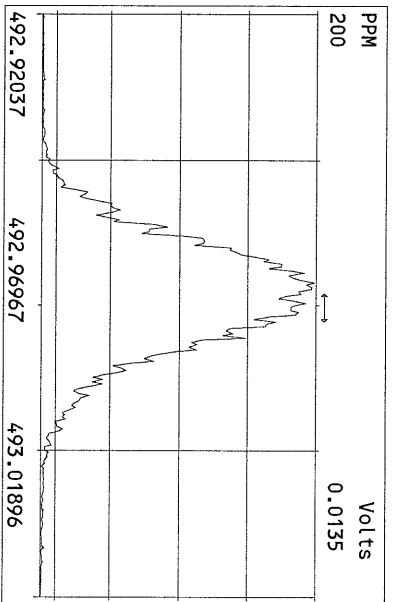
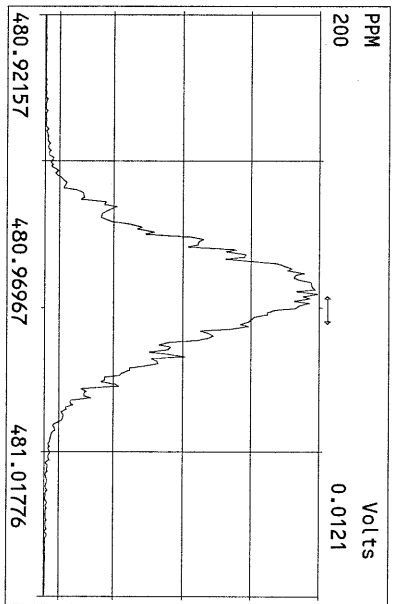
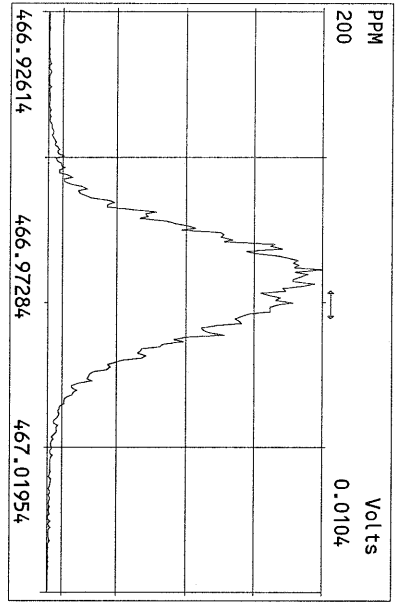
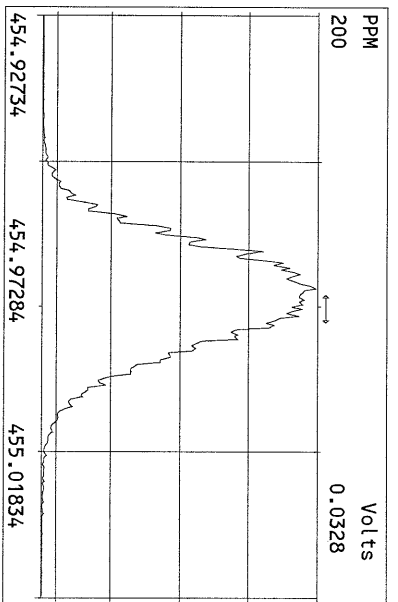
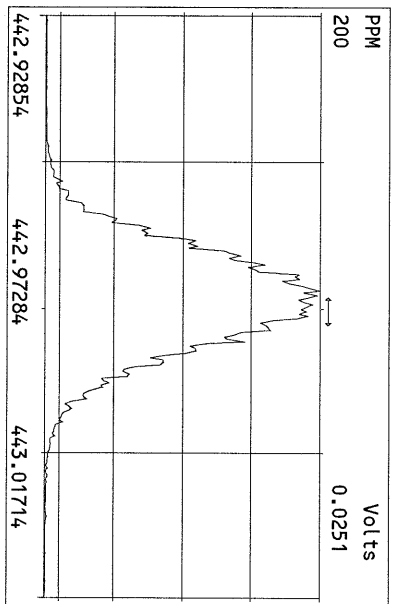
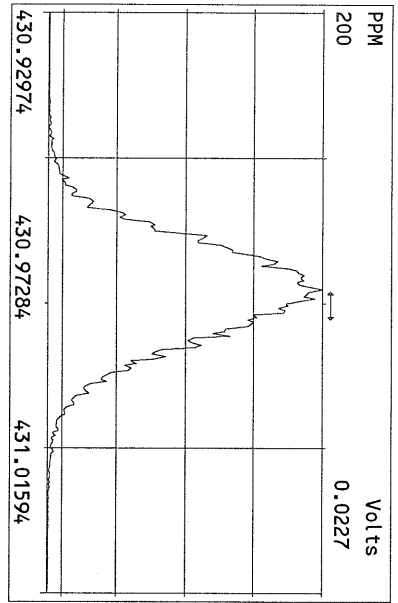






Peak Locate Examination: 8-MAR-2011:08:19 File:07MAR11M\_RES\_CHECK  
Experiment:OCDD Function:4 Reference:PFK





Frontier Analytical Laboratory

Data Filename: 18FEB11B

Analyte: TCDFAL1-2-18-11

Cal: TCDFAL1-2-18-11

Name	RRF	S. D.	%RSD	S1 RRF#1	S2 RRF#2	S3 RRF#3	S4 RRF#4	S5 RRF#5
2,3,7,8-TCDF	1.16	0.0391	3.38 %	1.13	1.22	1.12	1.17	1.14
13C-2,3,7,8-TCDF	1.05	0.0980	9.31 %	0.97	1.00	0.98	1.12	1.19
13C-1,2,3,4-TCDF	-	-	- %	-	-	-	-	-


Analyst: 

Date: 2/18/11

Run #1      Filename 18FEB11B  
Client ID: ST021811B3

S: 1      Acquired: 18-FEB-11 13:45:12      Cal: TCDFFAL1-2-18-11  
Analyte: TCDF      FAL ID: 1613 CS3 100511J

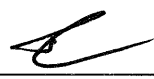
	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDF	10.00	2.06e+07	0.79 y	19:23	-	1.13	y
2	IS	13C-2,3,7,8-TCDF	100.00	1.82e+08	0.81 y	19:23	-	0.970	y
3	RS	13C-1,2,3,4-TCDF	100.00	1.87e+08	0.80 y	16:48	1.87e+06	-	n

Analyst:       Date: 2/18/11

Run #2      Filename 18FEB11B  
Client ID: ST021811B1

S: 2      Acquired: 18-FEB-11 14:20:15      Cal: TCDFFAL1-2-18-11  
Analyte: TCDF      FAL ID: 1613 CS1 100511H

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDF	0.50	1.07e+06	0.72 y	19:22	-	1.22 y
2	IS	13C-2,3,7,8-TCDF	100.00	1.76e+08	0.81 y	19:21	-	0.998 y
3	RS	13C-1,2,3,4-TCDF	100.00	1.76e+08	0.79 y	16:46	1.76e+06	- n

Analyst: 

Date: 2/18/11

Run #3      Filename 18FEB11B  
Client ID: ST021811B2

S: 3      Acquired: 18-FEB-11 14:55:19      Cal: TCDFFAL1-2-18-11  
Analyte: TCDF      FAL ID: 1613 CS2 100511I

	Typ	Name	Amount	Resp	RA	RT	RF	RRF	
1	Unk	2,3,7,8-TCDF	2.00	4.55e+06	0.79 y	19:22	-	1.12	y
2	IS	13C-2,3,7,8-TCDF	100.00	2.02e+08	0.81 y	19:21	-	0.983	y
3	RS	13C-1,2,3,4-TCDF	100.00	2.06e+08	0.80 y	16:47	2.06e+06	-	n


Analyst:  Date: 2/18/11



Run #4      Filename 18FEB11B  
Client ID: ST021811B4

S: 4      Acquired: 18-FEB-11 15:30:23      Cal: TCDFFAL1-2-18-11  
Analyte: TCDF      FAL ID: 1613 CS4 100511K

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDF	40.00	9.40e+07	0.79 y	19:22	-	1.17 y
2	IS	13C-2,3,7,8-TCDF	100.00	2.00e+08	0.81 y	19:20	-	1.12 y
3	RS	13C-1,2,3,4-TCDF	100.00	1.78e+08	0.80 y	16:47	1.78e+06	- n

Analyst: 

Date: 2/18/11

Run #5      Filename 18FEB11B  
Client ID: ST021811B5

S: 5      Acquired: 18-FEB-11 16:05:28      Cal: TCDFFAL1-2-18-11  
Analyte: TCDFFAL1-2-18-11      FAL ID: 1613 CS5 100511L

	Typ	Name	Amount	Resp	RA	RT	RF	RRF
1	Unk	2,3,7,8-TCDF	200.00	3.70e+08	0.79 y	19:22	-	1.14 y
2	IS	13C-2,3,7,8-TCDF	100.00	1.63e+08	0.81 y	19:21	-	1.19 y
3	RS	13C-1,2,3,4-TCDF	100.00	1.37e+08	0.80 y	16:46	1.37e+06	- n

Analyst: 

Date: 2/18/11

TCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory      Episode No.:

Contract No.:      SAS No.:

Initial Calibration Date: 2/18/11

Instrument ID: FAL1      GC Column ID: DB225

CS1 Data Filename: 18FEB11B S1      CS4 Data Filename: 18FEB11B S4

CS2 Data Filename: 18FEB11B S2      CS5 Data Filename: 18FEB11B S5

CS3 Data Filename: 18FEB11B S3

	RELATIVE RESPONSE (RR)					MEAN	Cv
	CS1	CS2	CS3	CS4	CS5	RR	(%RSD)
NATIVE ANALYTES							
2,3,7,8-TCDF	1.13	1.22	1.12	1.17	1.14	1.16	3.38
13C-2,3,7,8-TCDF	0.97	1.00	0.98	1.12	1.19	1.05	9.31

Analyst: 

Date: 2/18/11

## USEPA - ITD

FORM 4A  
TCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory      Episode No.:

Contract No.:      SAS No.:

Initial Calibration Date: 2/18/11

Instrument ID: FAL1      GC Column ID: DB225

VER Data Filename: 18FEB11B Sam:1      Analysis Date: 18-FEB-11 Time: 13:45:12


	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-TCDF	M/M+2	0.79	0.65-0.89	y	9.78	8.40 - 12.0
LABELED COMPOUNDS						
13C-2,3,7,8-TCDF	M/M+2	0.81	0.65-0.89	y	92.2	71.0 - 140

- (1) See Table 8, Method 1613, for m/z specifications.
- (2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.
- (3) Contract-required concentration range as specified in Table 6A, Method 1613

Analyst: Date: 2/18/11

FAL ID: ST021811B3      Filename: 18FEB11B    Sam:1    Acquired: 18-FEB-11 13:45:12    ICal: TCDFFAL1-2-18-11  
Client ID: 1613 CS3 100511J      ConCal: NA      EndCal: NA  
Results:      GC Column: DB225    Amount: 1.000

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise	DL	#Hom	Rec
2,3,7,8-TCDF	2.06e+07	0.79 y	19:23	1.16	9.78		2.50	-	-	1	
13C-2,3,7,8-TCDF	1.82e+08	0.81 y	19:23	1.05	92.2						92.2
13C-1,2,3,4-TCDF	1.87e+08	0.80 y	16:48	-	106						

Analyst: 

Date: 2/18/11

Frontier Analytical Laboratory - Acquisition Log

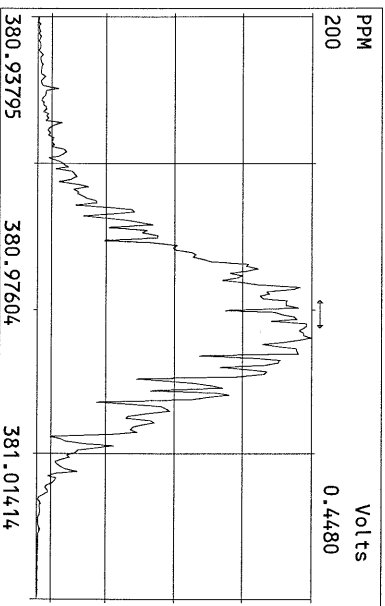
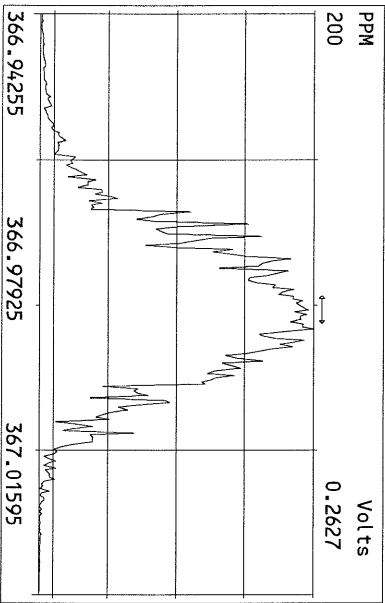
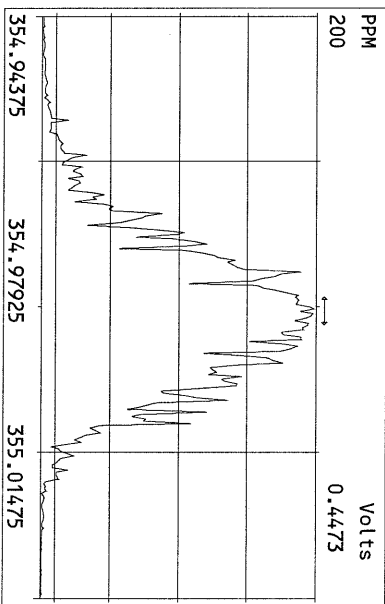
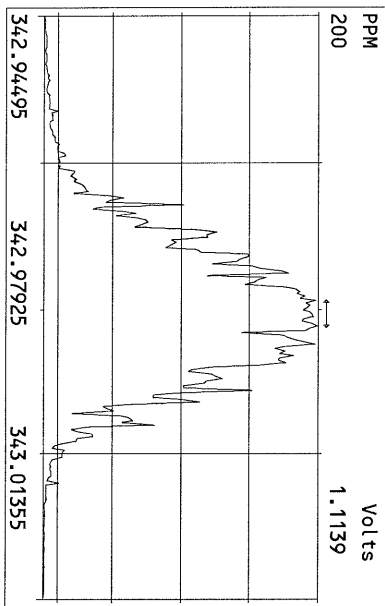
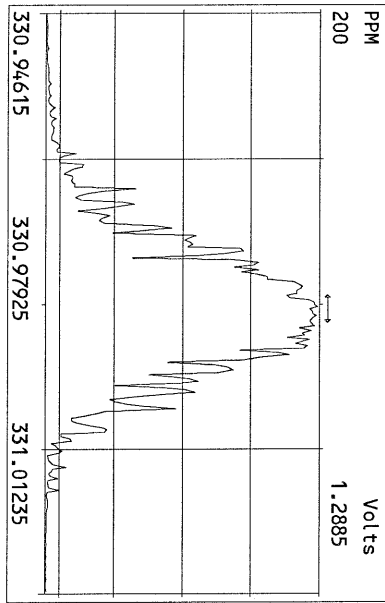
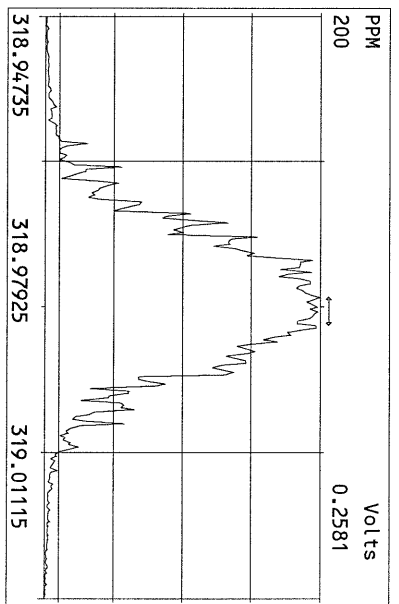
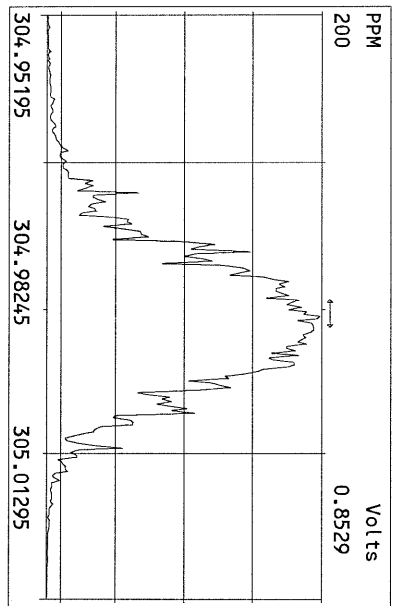
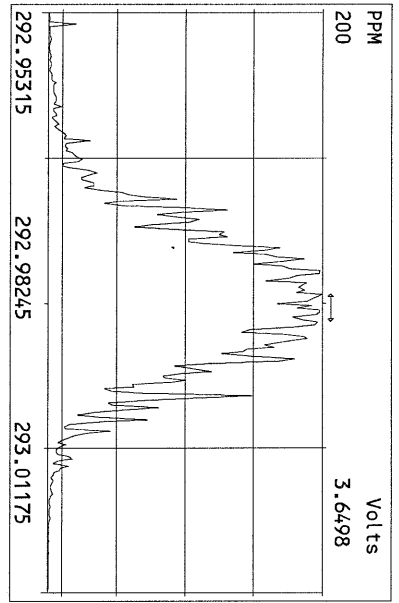
Run Name:18FEB11B Instrument: FAL1 GC: DB225 Experiment:TCDF

Data File	S	FAL ID	Client ID	Acquired	ConCal	EndCal	Analyst
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18FEB11B	2	ST021811B1	1613 CS1 100511H	18-FEB-11 14:20:15	NA	NA	TC
18FEB11B	3	ST021811B2	1613 CS2 100511I	18-FEB-11 14:55:19	NA	NA	TC
18FEB11B	4	ST021811B4	1613 CS4 100511K	18-FEB-11 15:30:23	NA	NA	TC
18FEB11B	5	ST021811B5	1613 CS5 100511L	18-FEB-11 16:05:28	NA	NA	TC

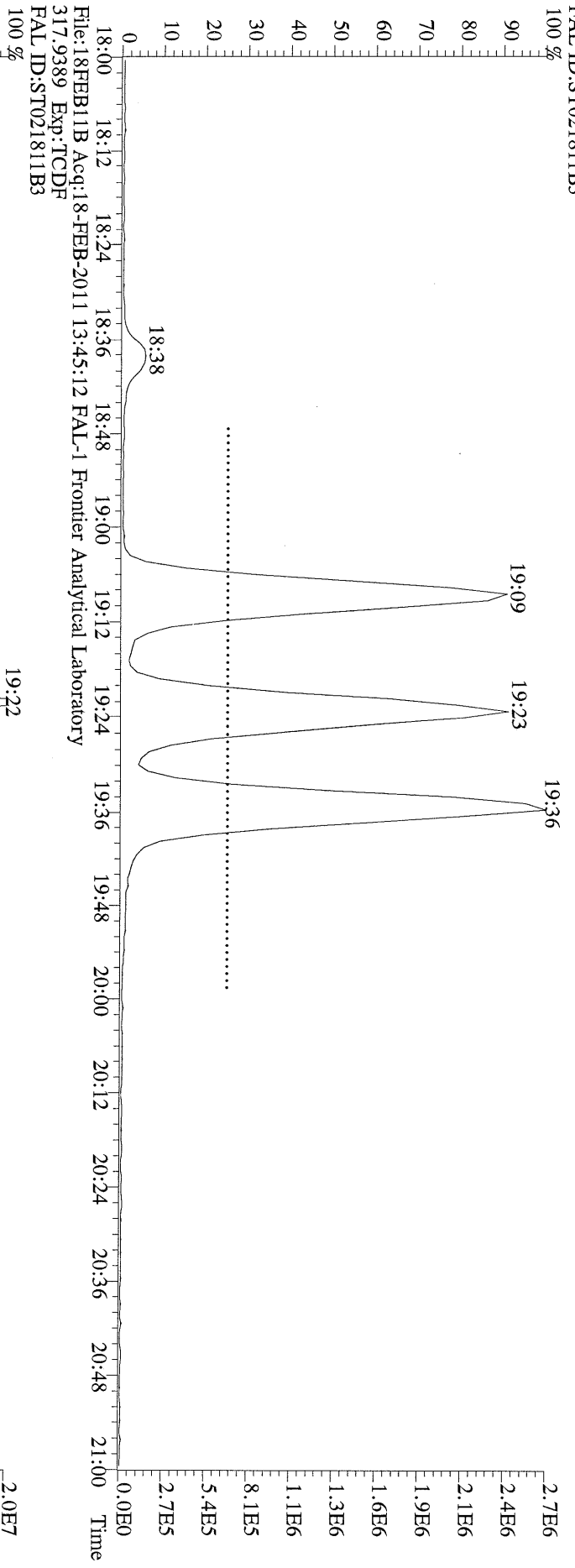
 2/18/11

Data Backed Up: \_\_\_\_\_

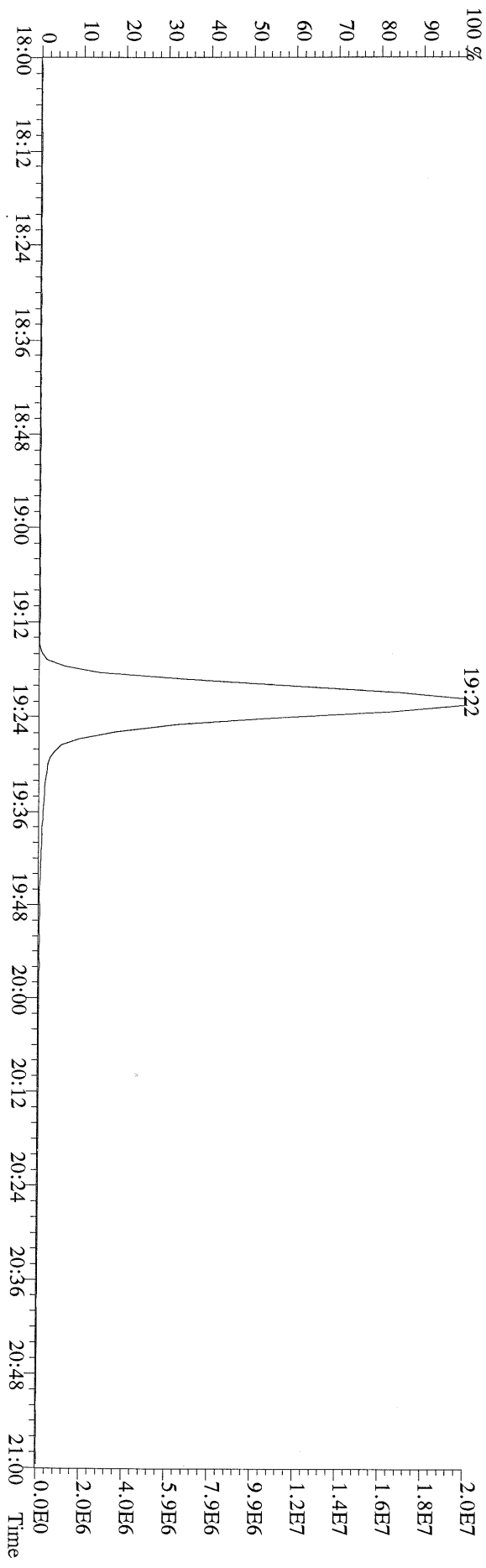
Date: \_\_\_\_\_



File:18FEB11B Acq:18-FEB-2011 13:45:12 FAL-1 Frontier Analytical Laboratory  
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FAL ID:ST021811B3

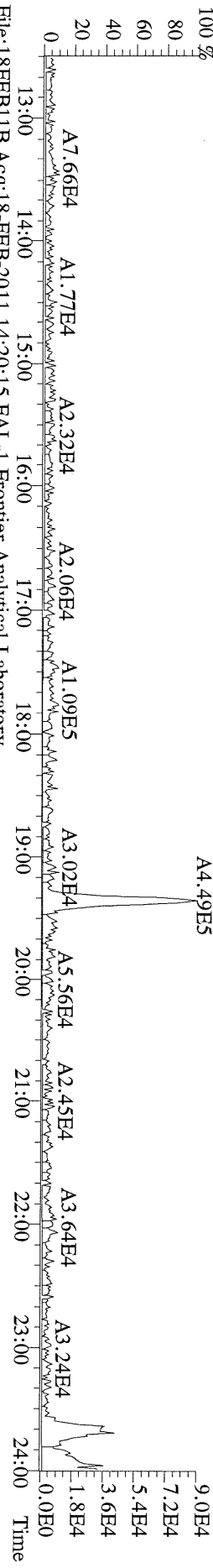


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FAL ID:ST021811B3

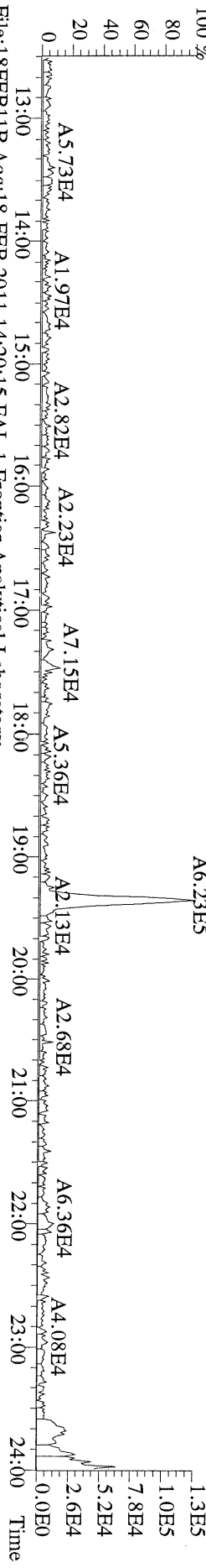




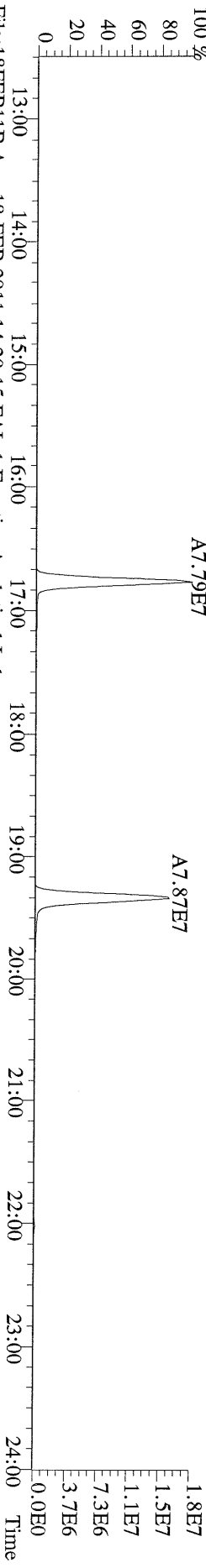
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 303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:TCDF  
 FAL ID:ST021811B1



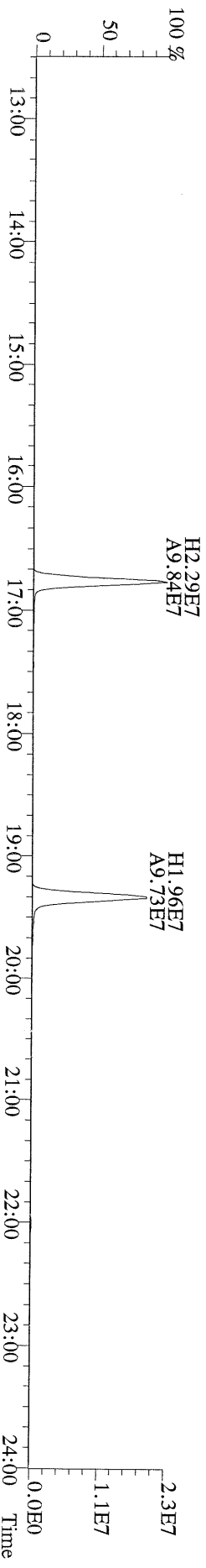
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 FAL ID:ST021811B1



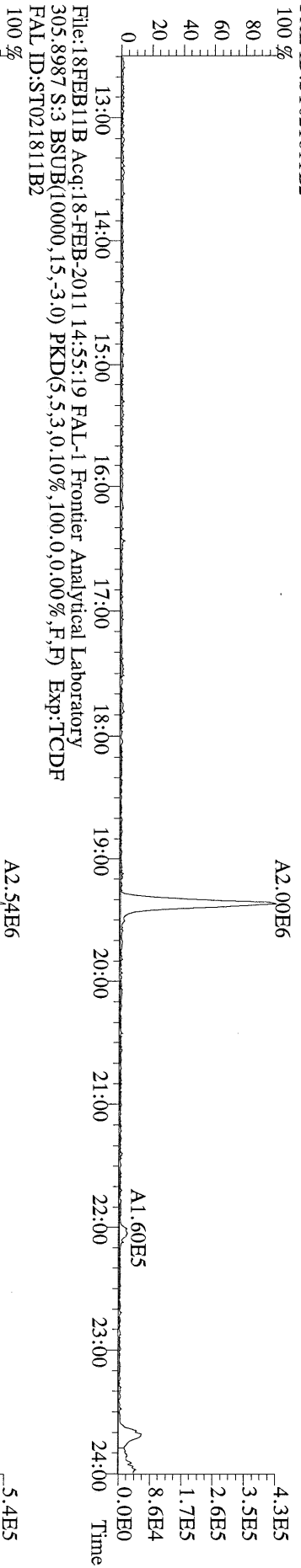
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 315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:TCDF  
 FAL ID:ST021811B1



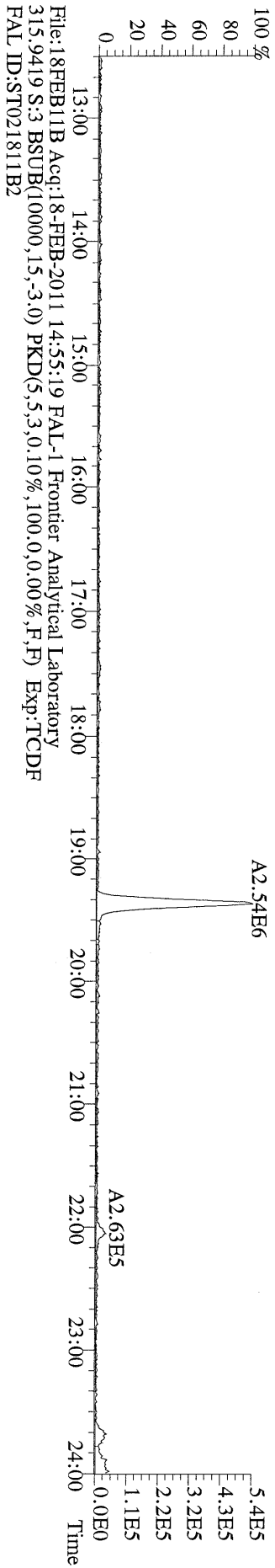
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 FAL ID:ST021811B1



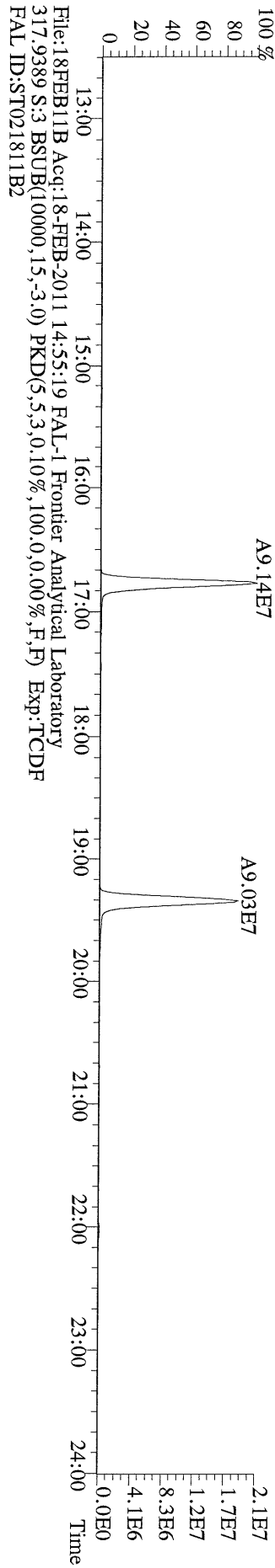
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FAL ID:ST021811B2



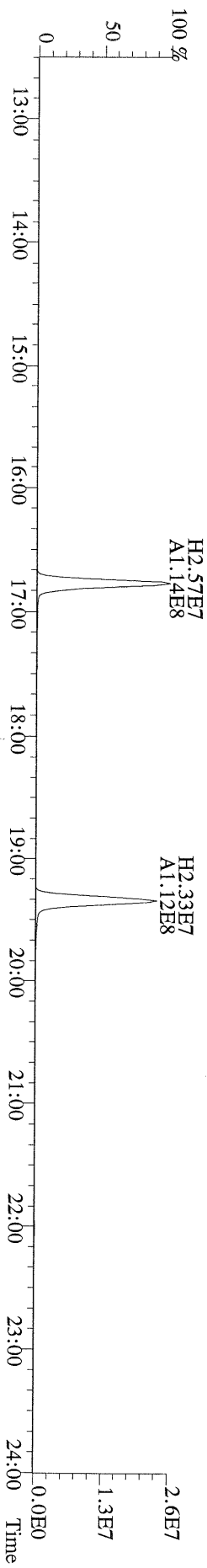
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FAL ID:ST021811B2



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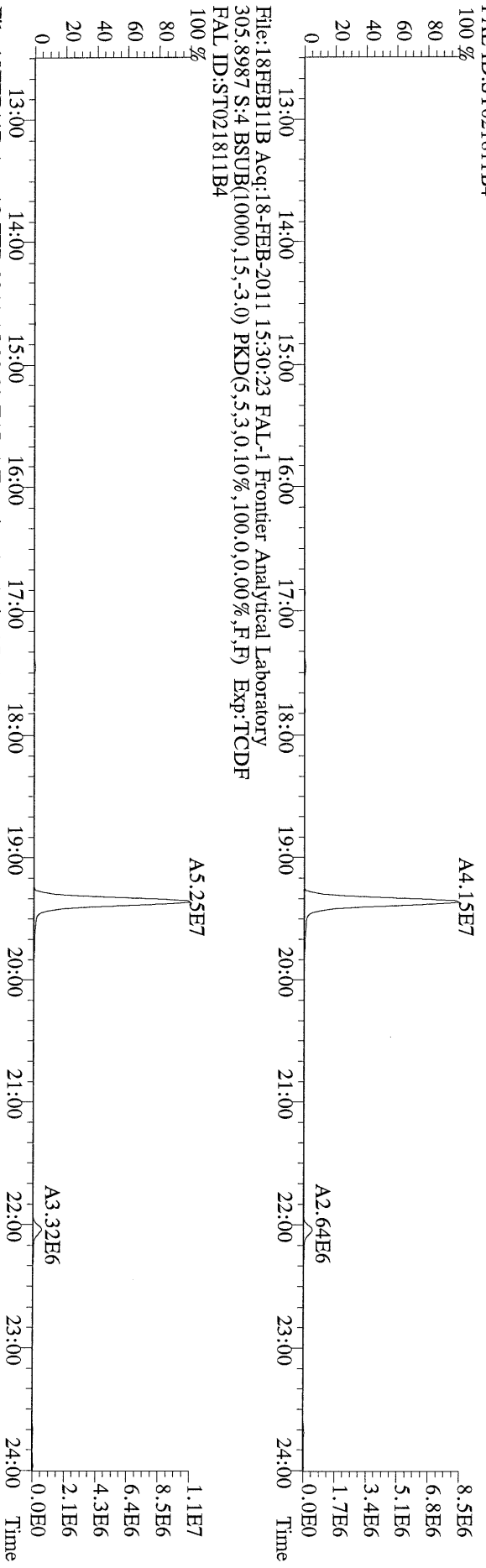


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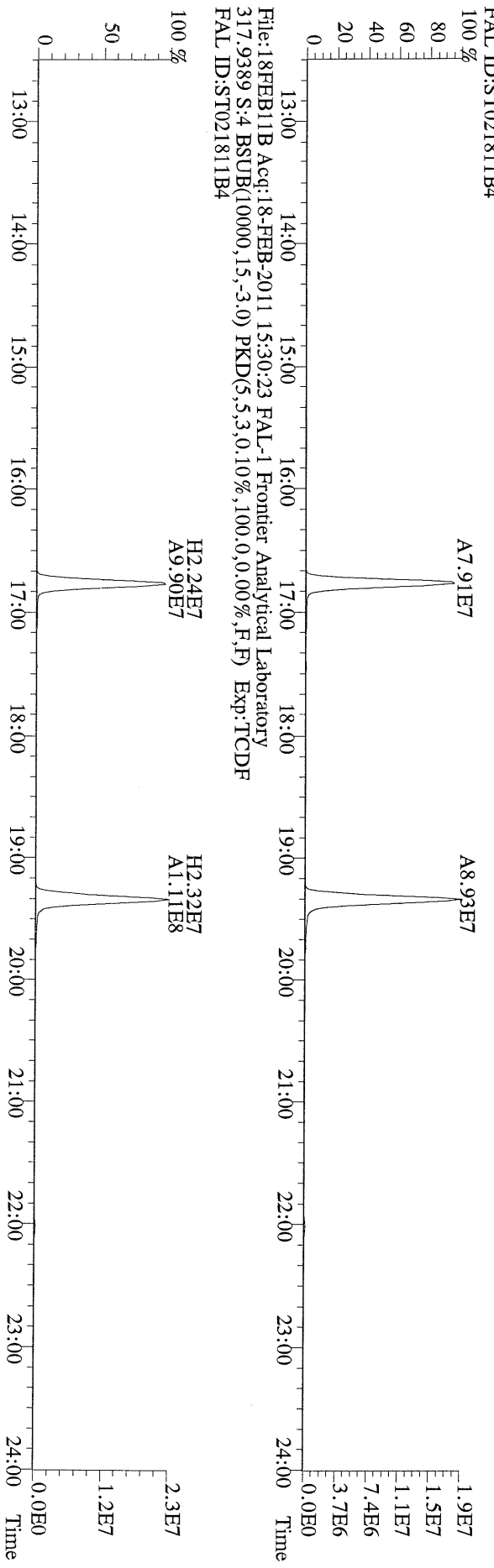




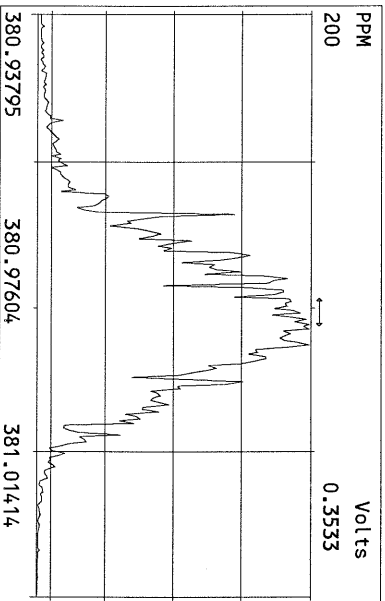
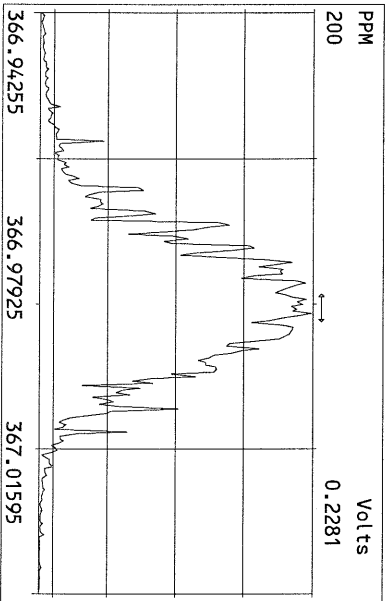
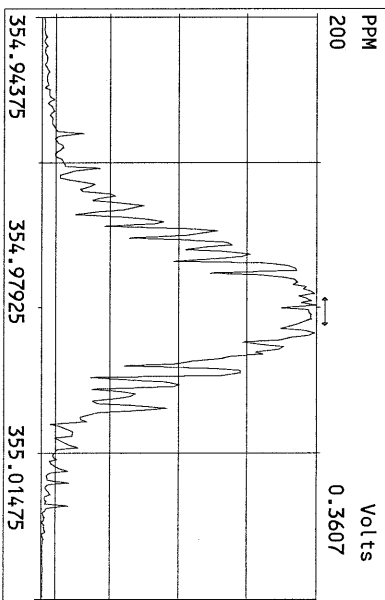
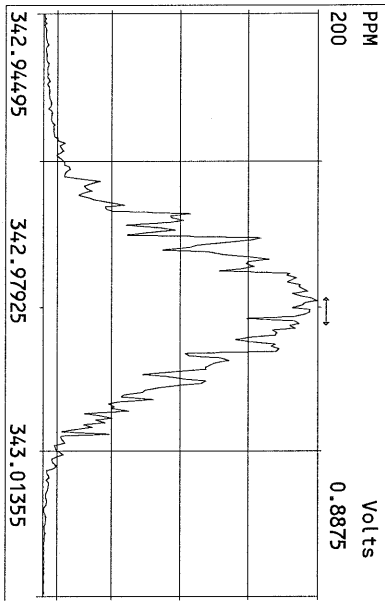
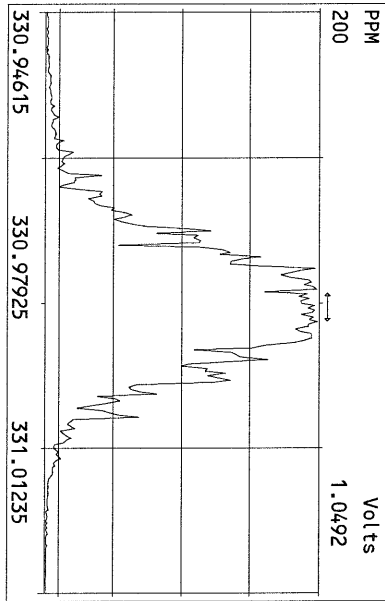
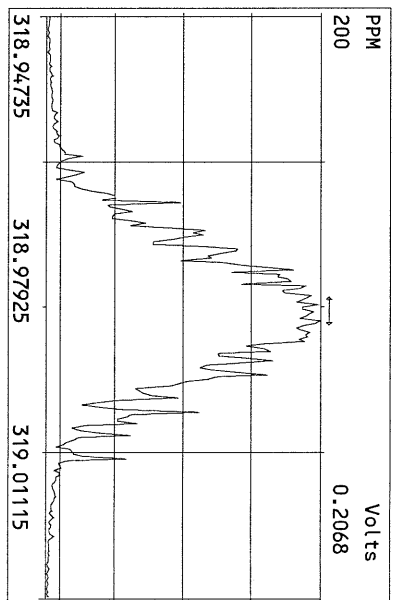
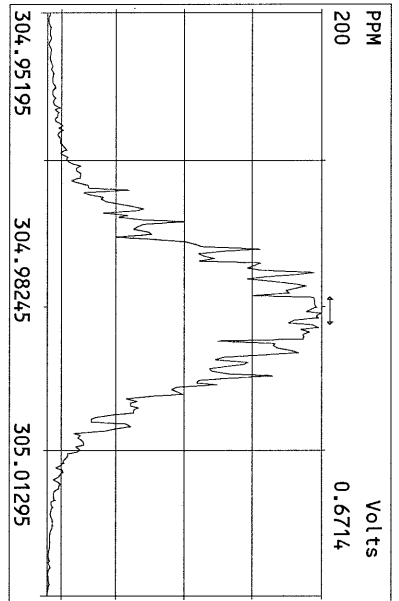
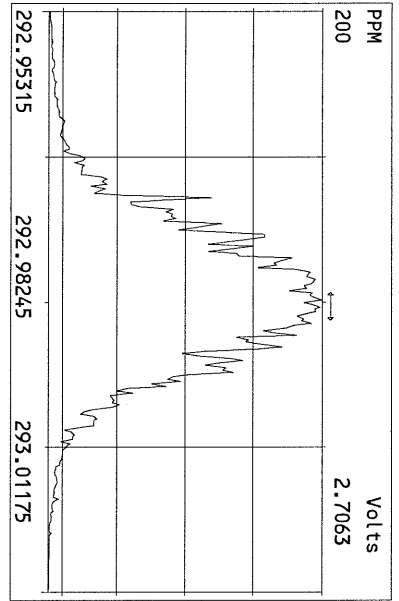
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FAL ID:ST021811B4



File:18FEB11B Acq:18-FEB-2011 15:30:23 FAL-1 Frontier Analytical Laboratory  
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FAL ID:ST021811B4







## USEPA - ITD

## FORM 4A

## PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 07APR11M Sam:1


Analysis Date: 7-APR-11 15:13:12

NATIVE ANALYTES	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	10.8	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.53	1.32-1.78	y	52.3	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	48.3	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	50.4	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.31	1.05-1.43	y	51.9	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	0.91	0.88-1.20	y	50.6	43.0 - 58.0
OCDD	M+2/M+4	0.94	0.76-1.02	y	96.4	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.72	0.65-0.89	y	10.1	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	52.7	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.59	1.32-1.78	y	50.9	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	50.9	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	51.5	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	50.7	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	50.7	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.07	0.88-1.20	y	48.6	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.10	0.88-1.20	y	49.5	43.0 - 58.0
OCDF	M+2/M+4	0.92	0.76-1.02	y	99.7	63.0 - 159

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

Analyst: Date: 4/8/11

## USEPA - ITD

FORM 4B  
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 07APR11M Sam:1

Analysis Date: 7-APR-11 15:13:12


LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.76	0.65-0.89	y	97.3	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.74	1.32-1.78	y	99.1	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.32	1.05-1.43	y	89.1	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	103	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	111	72.0 - 138
13C-OCDD	M+2/M+4	0.95	0.76-1.02	y	223	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.87	0.65-0.89	y	104	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.66	1.32-1.78	y	113	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.65	1.32-1.78	y	111	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.48	0.43-0.59	y	91.1	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.49	0.43-0.59	y	97.7	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.48	0.43-0.59	y	95.9	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.48	0.43-0.59	y	98.8	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.47	0.37-0.51	y	110	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.47	0.37-0.51	y	114	77.0 - 129
13C-OCDF	M+2/M+4	0.93	0.76-1.02	y	214	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.23	7.80 - 12.8

(1) See Table 8, Method 1613, for m/z specifications.

(2) Ion Abundance Ratio Control Limits as specified in Table 9, Method 1613.

(3) Contract-required concentration range as specified in Table 6, Method 1613.

(4) No ion abundance ratio; report concentration found.

Analyst: Date: 4/8/11



FORM 5  
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:  
Contract No.: SAS No.:  
Instrument ID: FAL3 Initial Calibration Date: 3/7/11  
RT Window Data Filename: 07APR11M Sam:1 Analysis Date: 7-APR-11 Time: 15:13:12  
DB-5 IS Data Filename: 07APR11M Sam:1 Analysis Date: 7-APR-11 Time: 15:13:12  
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)	24:34	1,3,6,8-TCDF (F)	23:12
1,2,8,9-TCDD (L)	28:33	1,2,8,9-TCDF (L)	28:47
1,2,4,7,9-PeCDD (F)	30:29	1,3,4,6,8-PeCDF (F)	28:38
1,2,3,8,9-PeCDD (L)	34:03	1,2,3,8,9-PeCDF (L)	34:29
1,2,4,6,7,9-HxCDD (F)	36:23	1,2,3,4,6,8-HxCDF (F)	35:31
1,2,3,7,8,9-HxCDD (L)	39:28	1,2,3,7,8,9-HxCDF (L)	40:03
1,2,3,4,6,7,9-HpCDD (F)	43:05	1,2,3,4,6,7,8-HpCDF (F)	42:34
1,2,3,4,6,7,8-HpCDD (L)	44:28	1,2,3,4,7,8,9-HpCDF (L)	45:23

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

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT  
BETWEEN  
COMPARED PEAKS (1)

<25%

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

Analyst: 

Date: 

## USEPA - ITD

## FORM 6A

## PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 7-APR-11 15:13:12

CS3 or VER Data Filename: 07APR11M

Sam:1

NATIVE ANALYTES	RETENTION TIME		RRT	RRT	QC LIMITS (1)
	REFERENCE				
2,3,7,8-TCDD	13C-2,3,7,8-TCDD		1.001		0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF		1.001		0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD		1.000		0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF		1.001		0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF		1.000		0.999-1.002
LABELED COMPOUNDS					
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD		1.023		0.989-1.052
13C-2,3,7,8-TCDD			1.022		0.976-1.043
13C-2,3,7,8-TCDF			0.994		0.923-1.103
13C-1,2,3,7,8-PeCDD			1.239		1.000-1.567
13C-1,2,3,7,8-PeCDF			1.175		0.923-1.203
13C-2,3,4,7,8-PeCDF			1.224		0.923-1.303

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

Analyst: Date: 

## PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 3/7/11

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 7-APR-11 15:13:12 CS3 or VER Data Filename: 07APR11M Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.000	0.999-1.001
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.001	0.998-1.004
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.000	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.001	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001
OCDD	13C-OCDD	1.001	0.999-1.001
OCDF	13C-OCDF	1.000	0.999-1.001
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000
13C-1,2,3,6,7,8-HxCDD		0.988	0.981-1.003
13C-1,2,3,4,7,8-HxCDF		0.949	0.944-0.970
13C-1,2,3,6,7,8-HxCDF		0.954	0.949-0.975
13C-2,3,4,6,7,8-HxCDF		0.978	0.959-1.021
13C-1,2,3,7,8,9-HxCDF		1.014	0.977-1.047
13C-1,2,3,4,6,7,8-HpCDD		1.127	1.086-1.130
13C-1,2,3,4,6,7,8-HpCDF		1.078	1.043-1.085
13C-1,2,3,4,7,8,9-HpCDF		1.150	1.057-1.154
13C-OCDD		1.269	1.032-1.311
13C-OCDF		1.279	1.000-1.311

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

Analyst: Date: 4/8/11

Results:		GC Column: DB5	Amount: 1.000	NATO 1989 Tox: 103		WHO 1998 Tox: 129		WHO 2005 Tox:		118
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL
2,3,7,8-TCDD	3.83e+06	0.77 y	27:37	1.13	10.8		2.50	-	-	*
1,2,3,7,8-PeCDD	1.67e+07	1.53 y	33:28	1.02	52.3		2.50	-	-	*
1,2,3,4,7,8-HxCDD	1.76e+07	1.31 y	38:51	1.45	48.3		2.50	-	-	*
1,2,3,6,7,8-HxCDD	1.67e+07	1.31 y	39:01	1.45	50.4		2.50	-	-	*
1,2,3,7,8,9-HxCDD	1.83e+07	1.31 y	39:28	1.47	51.9		2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	1.43e+07	0.91 y	44:28	1.30	50.6		2.50	-	-	*
OCDD	2.24e+07	0.94 y	50:06	1.45	96.4		2.50	-	-	*
2,3,7,8-TCDF	6.36e+06	0.72 y	26:51	1.15	10.1		2.50	-	-	*
1,2,3,7,8-PeCDF	2.36e+07	1.60 y	31:44	0.89	52.7		2.50	-	-	*
2,3,4,7,8-PeCDF	2.19e+07	1.59 y	33:03	0.89	50.9		2.50	-	-	*
1,2,3,4,7,8-HxCDF	2.04e+07	1.27 y	37:28	1.01	50.9		2.50	-	-	*
1,2,3,6,7,8-HxCDF	2.44e+07	1.27 y	37:39	0.89	51.5		2.50	-	-	*
2,3,4,6,7,8-HxCDF	2.18e+07	1.27 y	38:36	1.02	50.7		2.50	-	-	*
1,2,3,7,8,9-HxCDF	2.60e+07	1.27 y	40:03	1.10	50.7		2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	1.85e+07	1.07 y	42:34	1.48	48.6		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	1.46e+07	1.10 y	45:23	1.43	49.5		2.50	-	-	*
OCDF	2.48e+07	0.92 y	50:29	0.84	99.7		2.50	-	-	*
Rec										
13C-2,3,7,8-TCDD	3.13e+07	0.76 y	27:35	1.03	97.3					97.3
13C-1,2,3,7,8-PeCDD	3.13e+07	1.74 y	33:27	1.01	99.1					99.1
13C-1,2,3,4,7,8-HxCDD	2.52e+07	1.32 y	38:50	1.19	89.1					89.1
13C-1,2,3,6,7,8-HxCDD	2.28e+07	1.31 y	38:59	0.94	103					103
13C-1,2,3,4,6,7,8-HpCDD	2.17e+07	1.03 y	44:27	0.83	111					111
13C-OCDD	3.21e+07	0.95 y	50:05	0.61	223					112
13C-2,3,7,8-TCDF	5.51e+07	0.87 y	26:49	0.98	104					104
13C-1,2,3,7,8-PeCDF	5.05e+07	1.66 y	31:43	0.83	113					113
13C-2,3,4,7,8-PeCDF	4.82e+07	1.65 y	33:03	0.80	111					111
13C-1,2,3,4,7,8-HxCDF	3.98e+07	0.48 y	37:26	1.84	91.1					91.1
13C-1,2,3,6,7,8-HxCDF	5.31e+07	0.49 y	37:38	2.29	97.7					97.7
13C-2,3,4,6,7,8-HxCDF	4.23e+07	0.48 y	38:35	1.86	95.9					95.9
13C-1,2,3,7,8,9-HxCDF	4.64e+07	0.48 y	40:01	1.98	98.8					98.8
13C-1,2,3,4,6,7,8-HpCDF	2.57e+07	0.47 y	42:32	0.99	110					110
13C-1,2,3,4,7,8,9-HpCDF	2.07e+07	0.47 y	45:23	0.77	114					114
13C-OCDF	5.91e+07	0.93 y	50:28	1.17	214					107
37Cl-2,3,7,8-TCDD	2.11e+06		27:37	0.73	9.23					92.3
13C-1,2,3,4-TCDD	3.13e+07	0.75 y	26:59	-	82.4					
13C-1,2,3,4-TCDF	5.40e+07	0.88 y	25:44	-	75.0					
13C-1,2,3,7,8,9-HxCDD	2.37e+07	1.32 y	39:27	-	95.6					
Fac Noise-1    Noise-2    DL    #Hom										
Total Tetra-Dioxins	1.93e+07		23:57	1.13	54.4	2.50	-	-	*	25
Total Penta-Dioxins	3.55e+07		30:29	1.02	112	2.50	-	-	*	4
Total Hexa-Dioxins	5.95e+07		36:23	1.46	170	2.50	-	-	*	10
Total Hepta-Dioxins	3.00e+07		43:05	1.30	106	2.50	-	-	*	18
Total Tetra-Furans	2.97e+07		23:12	1.15	47.0	2.50	-	-	*	20
1st Fn. Tot Penta-Furans	2.32e+07		28:38	0.89	52.8	2.50	-	-	*	PeCDF 1
Total Penta-Furans	6.51e+07		30:25	0.89	148	2.50	-	-	*	201 12
Total Hexa-Furans	1.07e+08		35:31	1.00	235	2.50	-	-	*	13
Total Hepta-Furans	3.36e+07		42:34	1.46	99.8	2.50	-	-	*	12

Analyst:  Date: 4/8/11

Frontier Analytical Laboratory - Acquisition Log

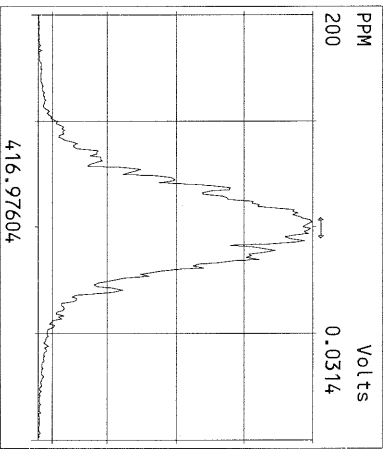
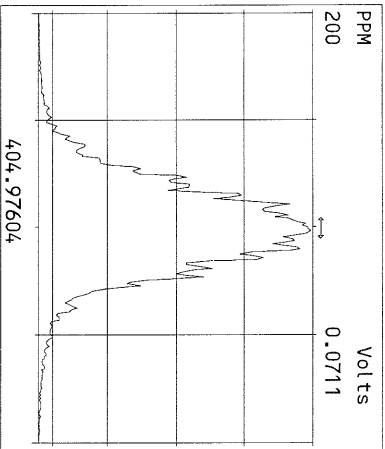
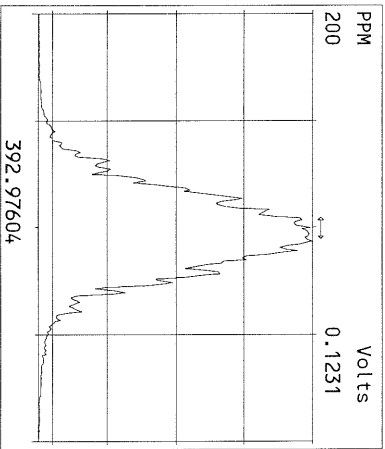
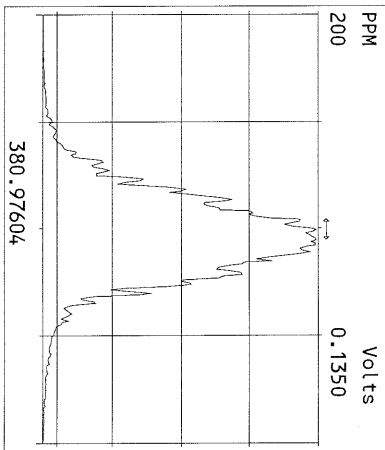
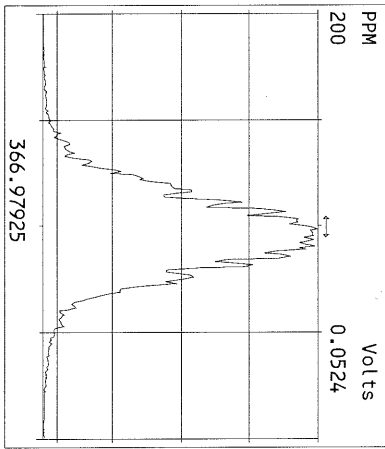
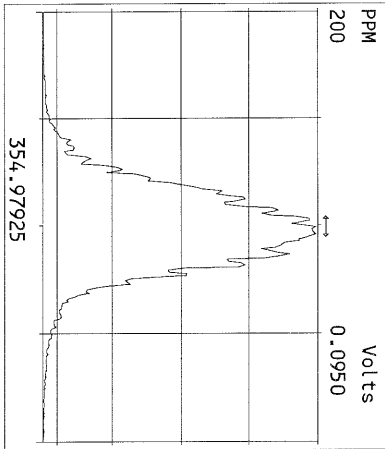
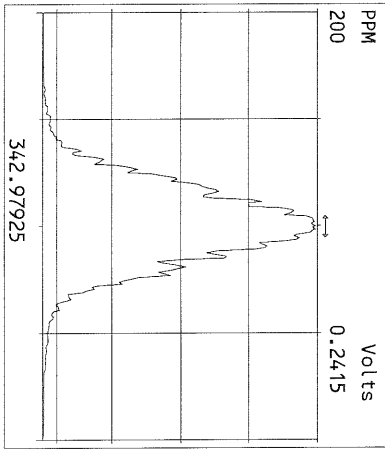
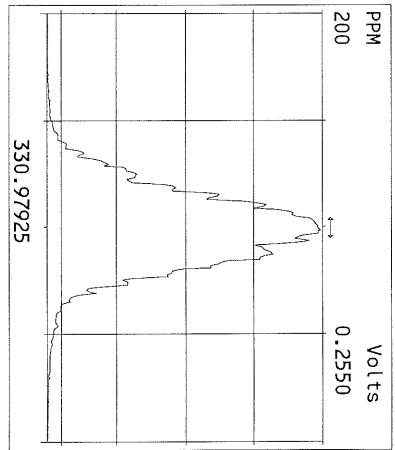
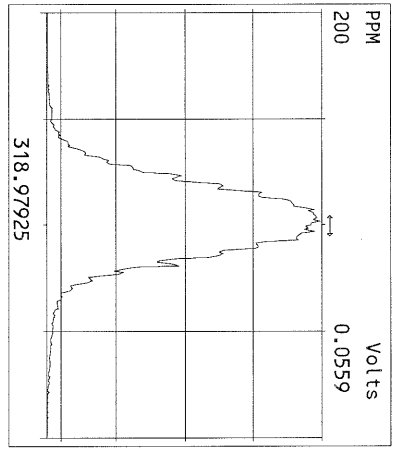
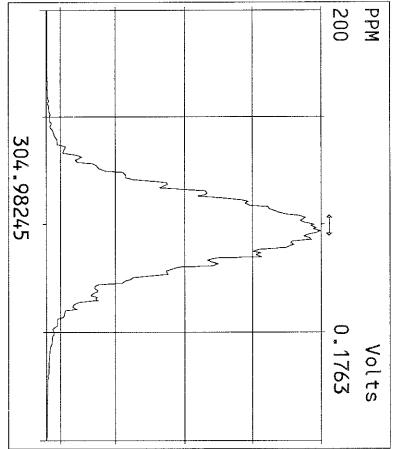
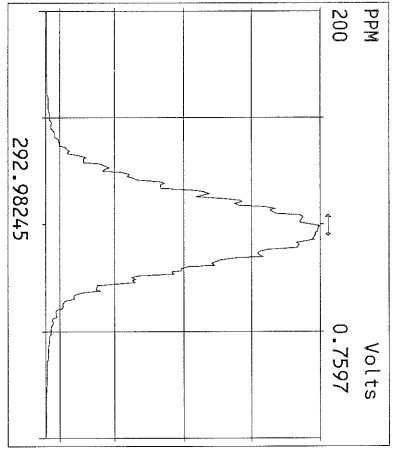
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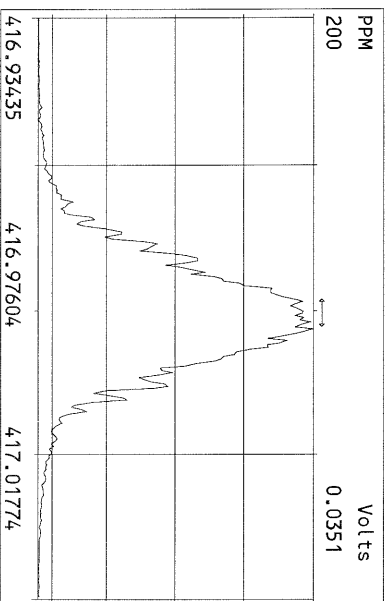
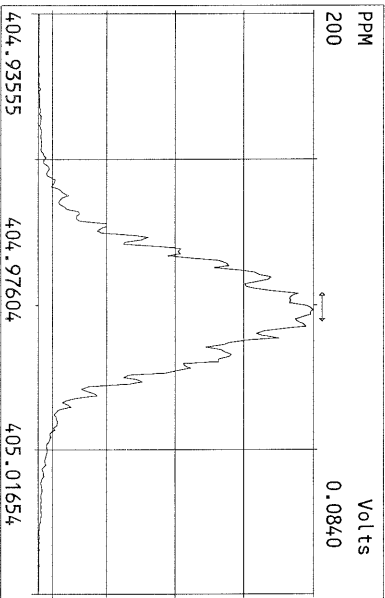
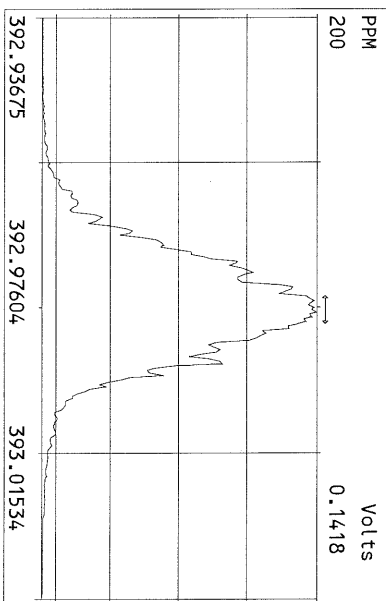
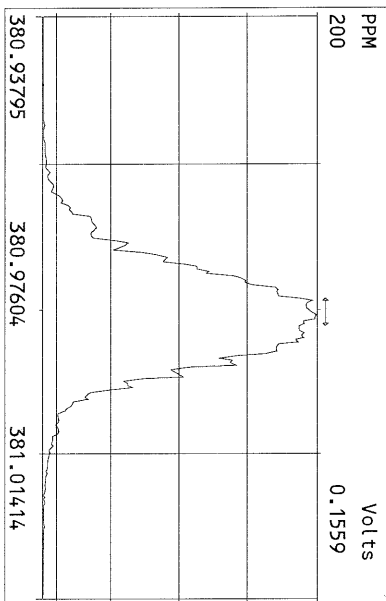
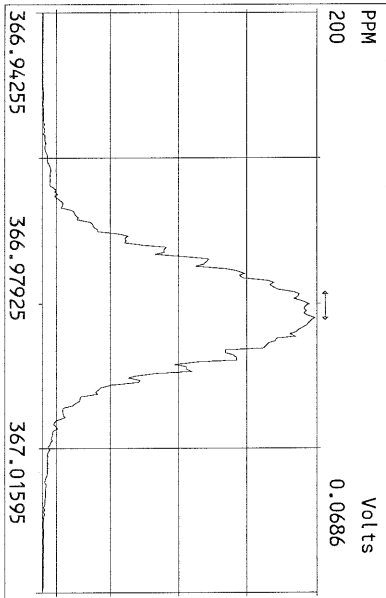
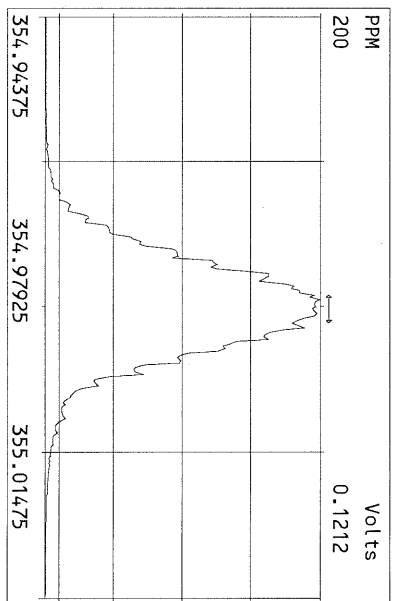
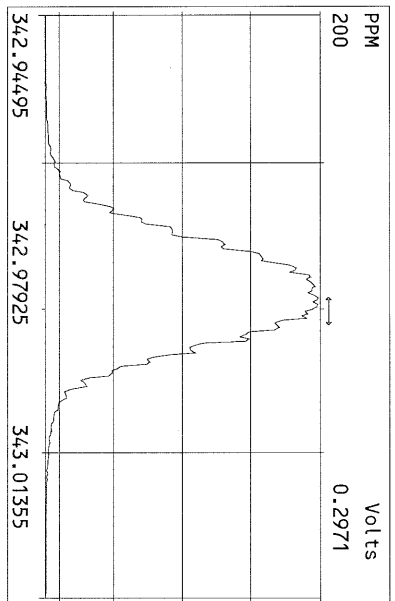
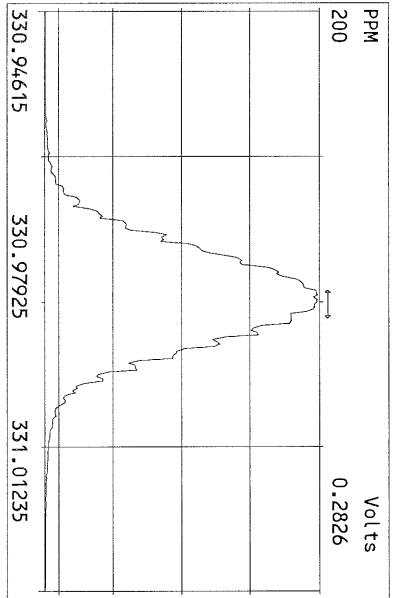
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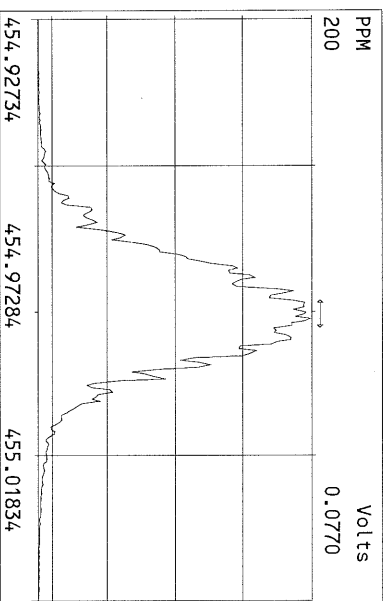
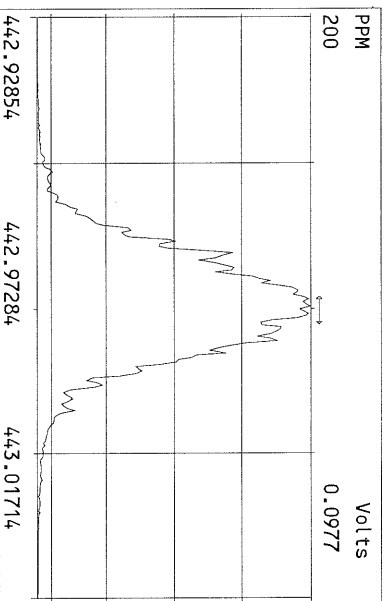
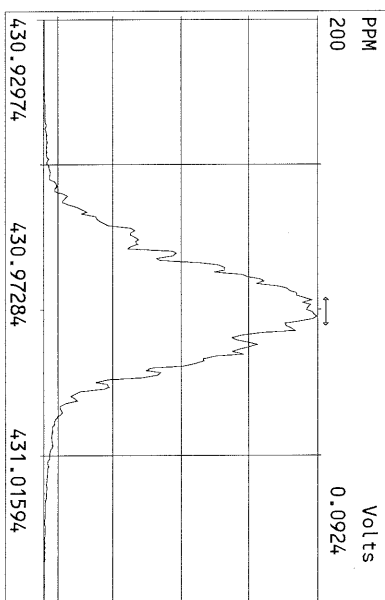
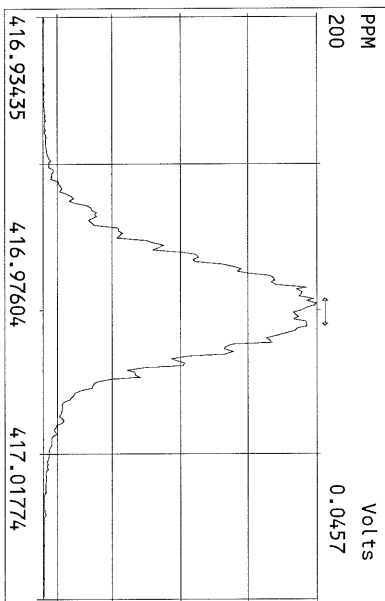
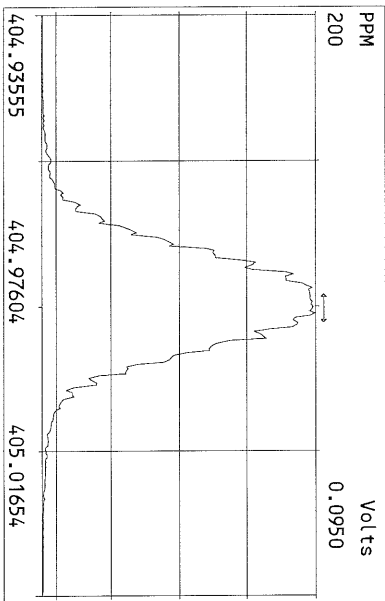
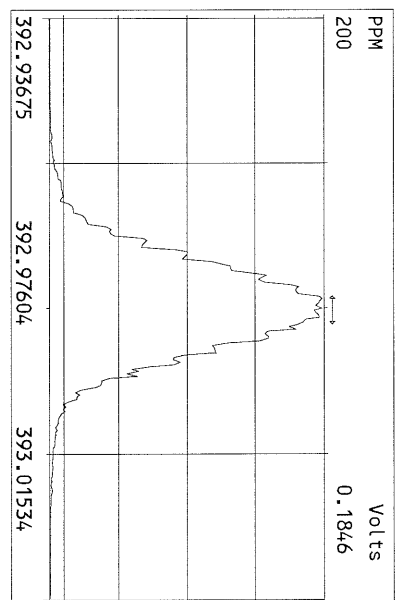
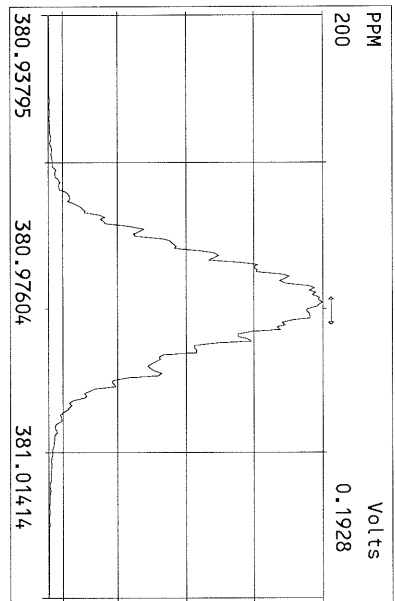
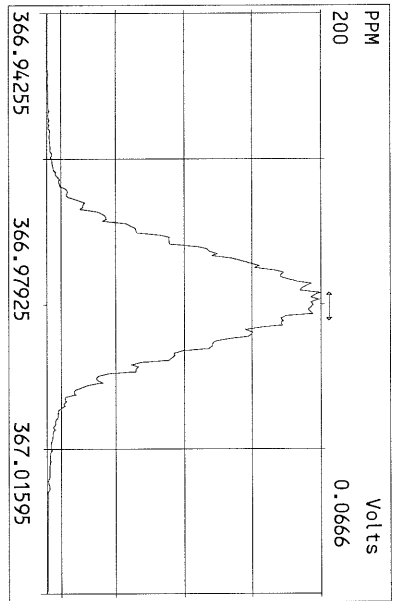
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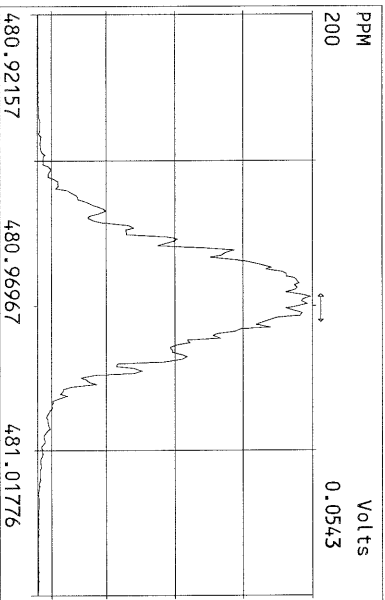
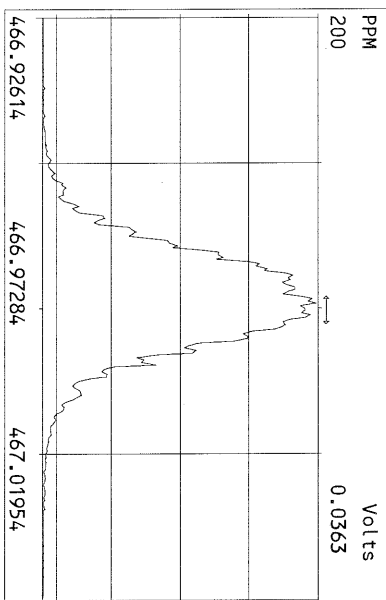
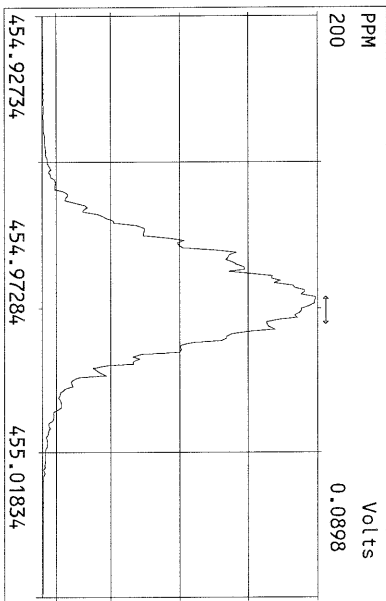
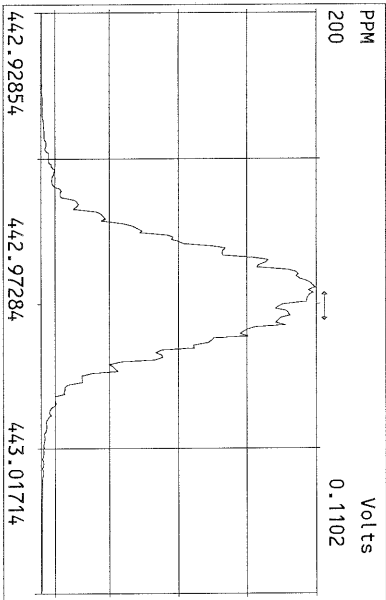
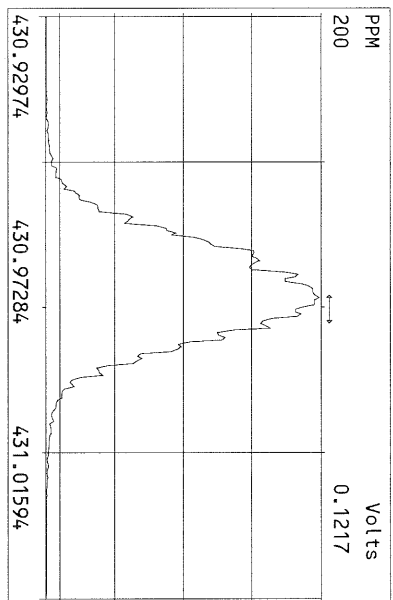
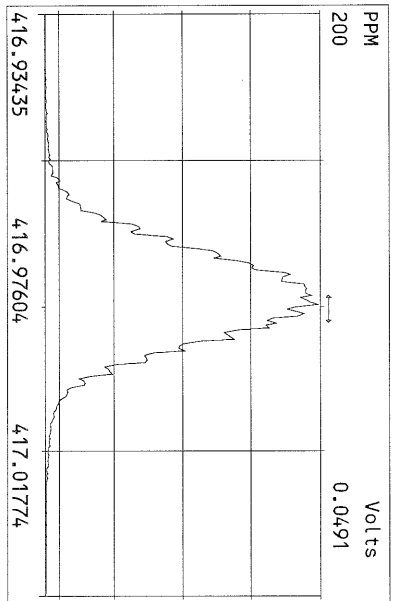
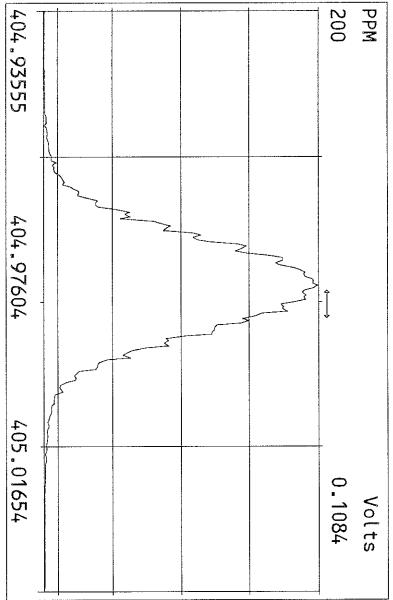
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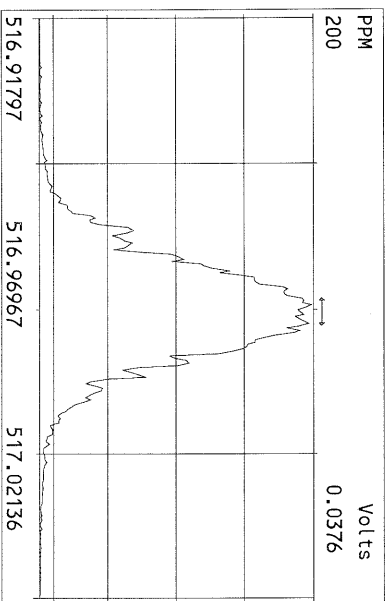
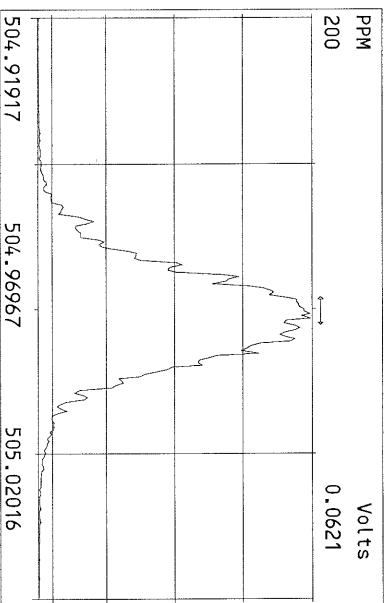
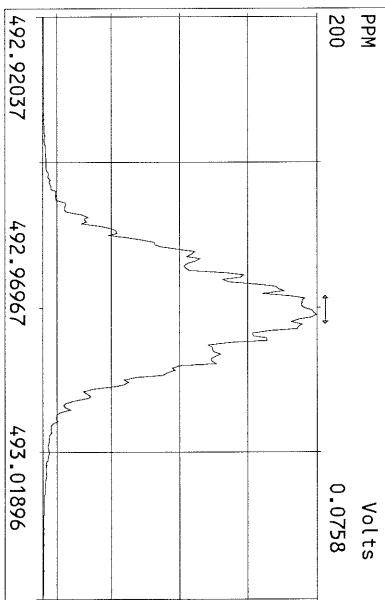
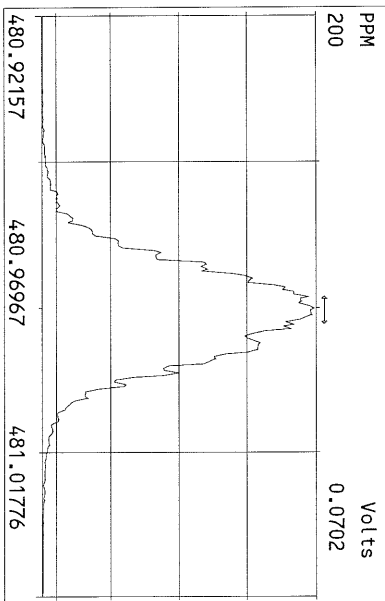
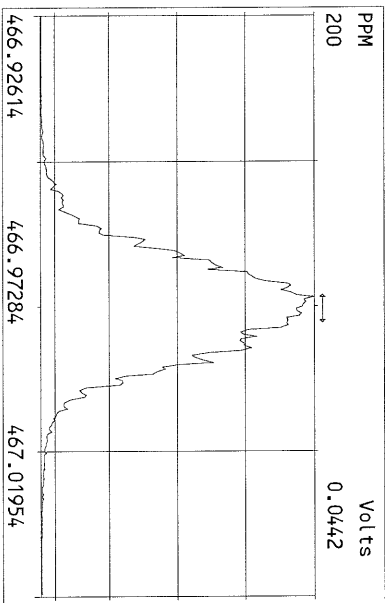
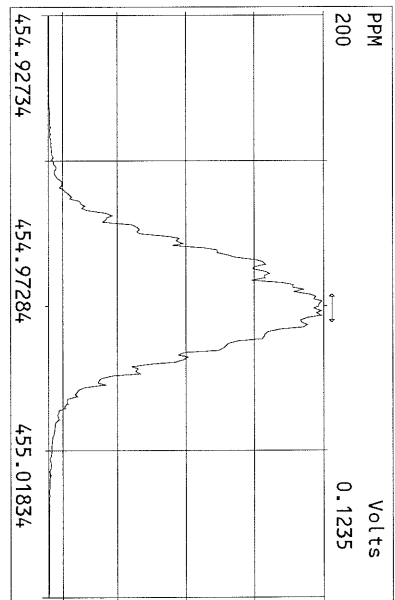
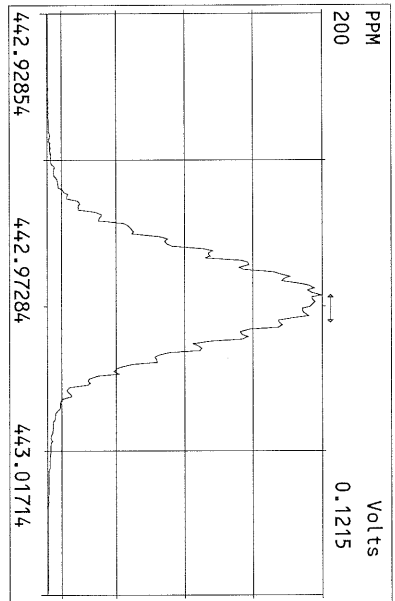
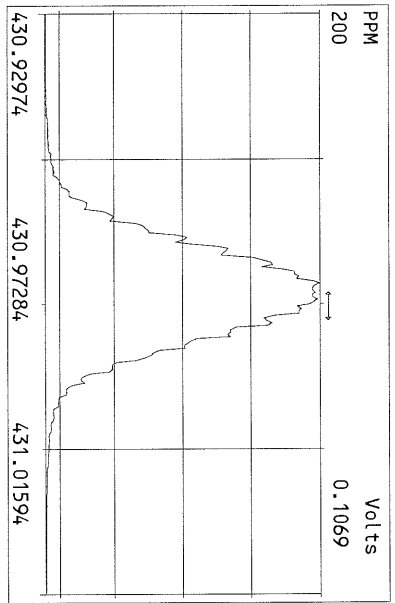




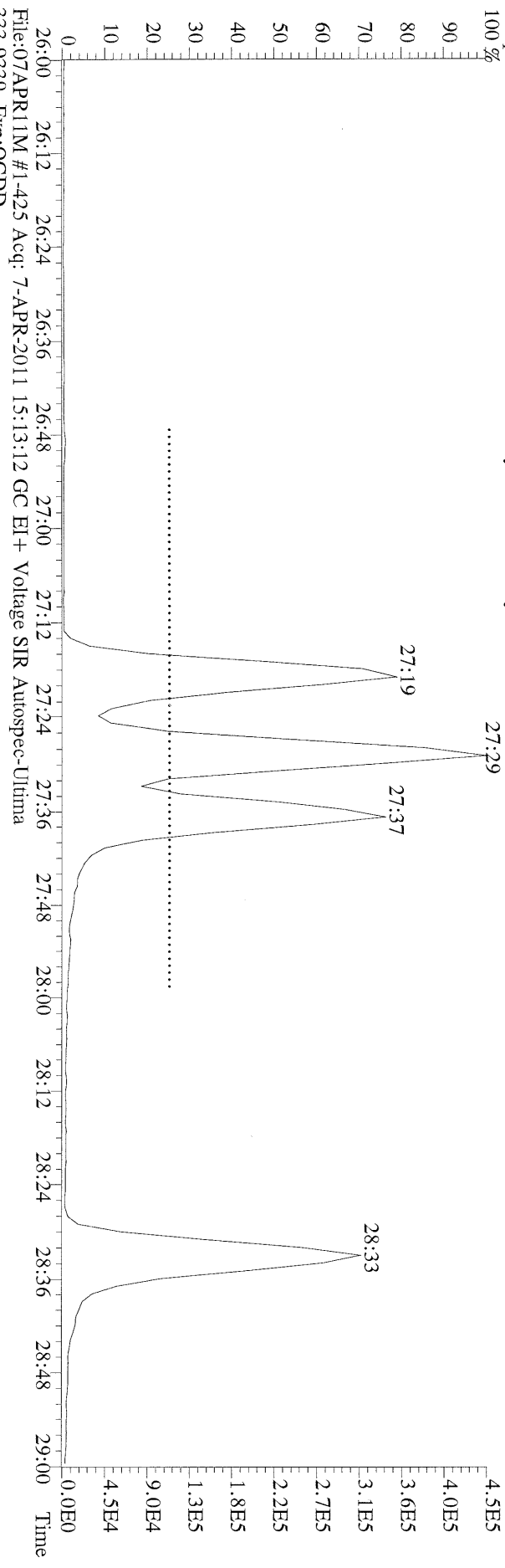




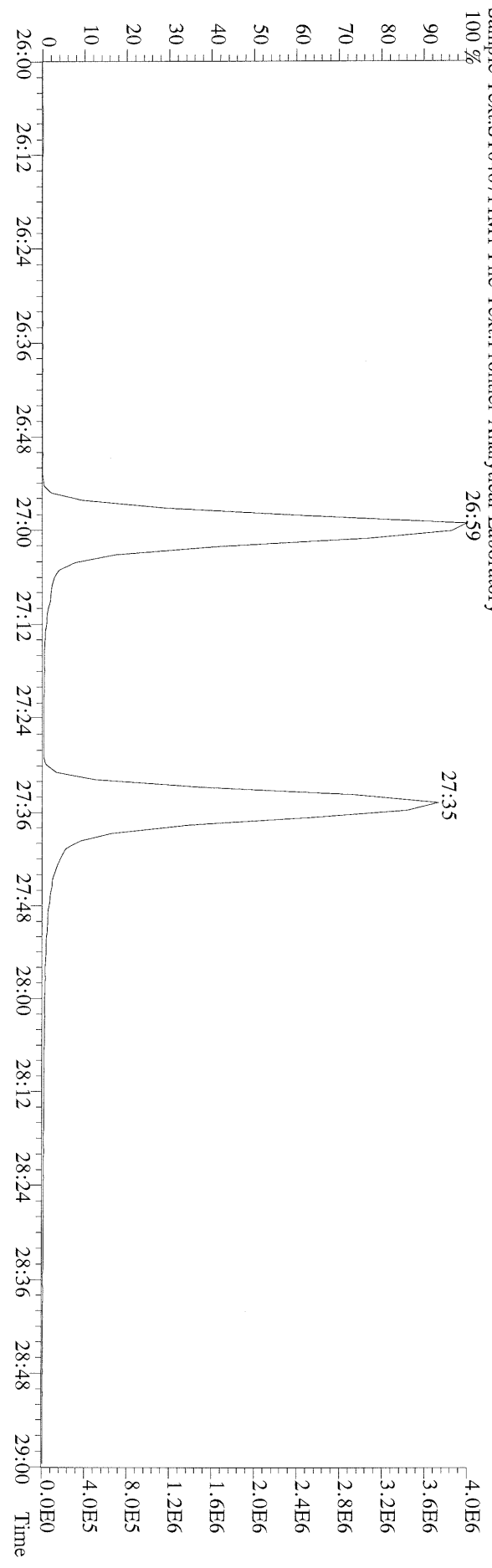




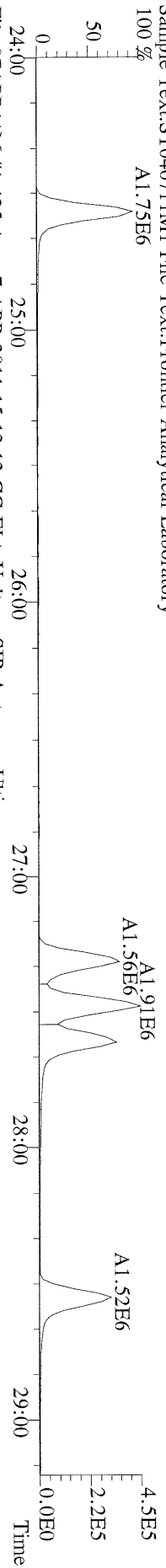
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Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory  
100%



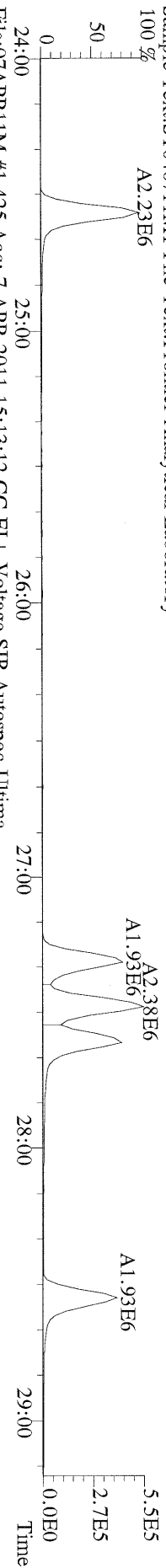
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100%



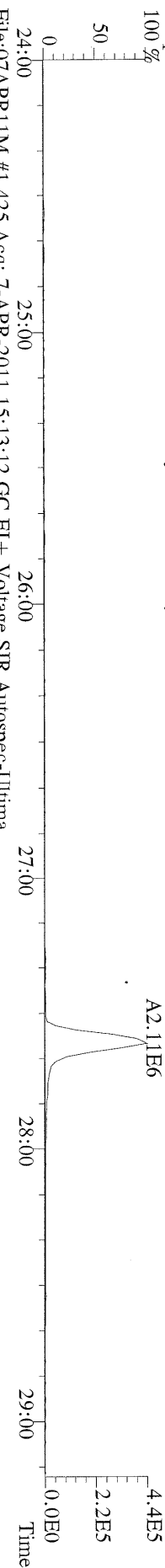
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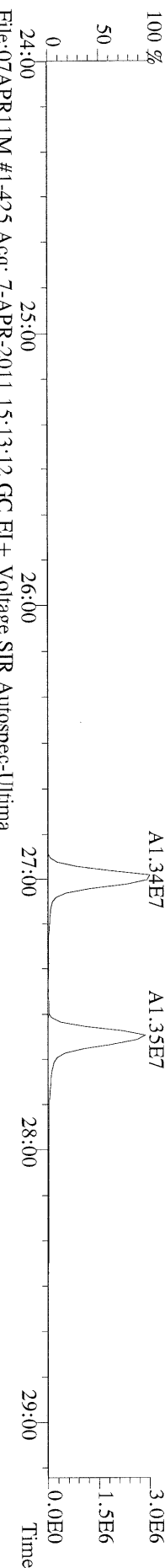
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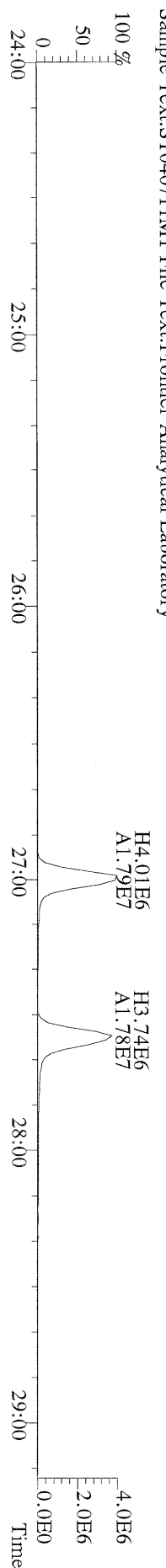
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Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



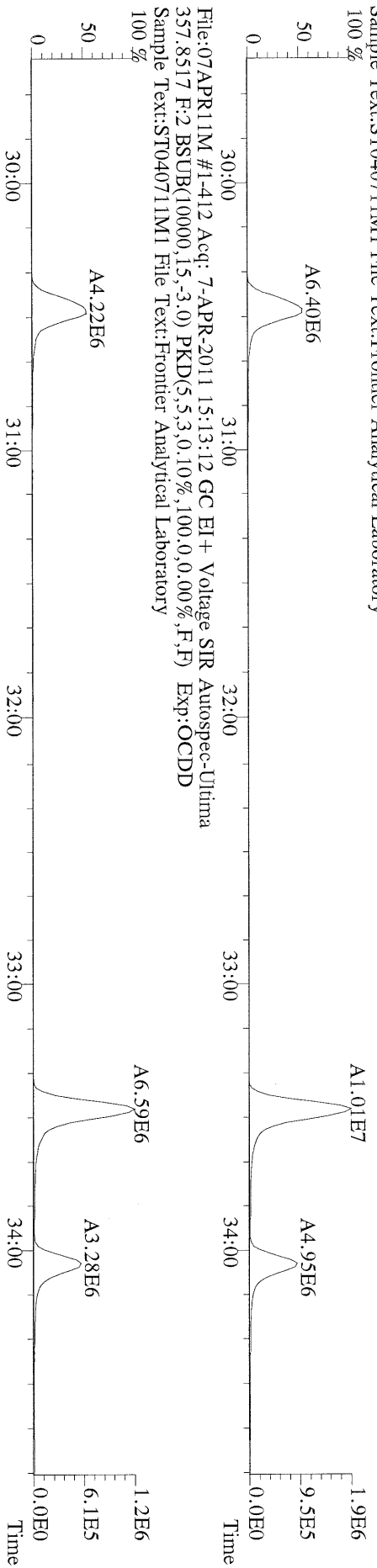
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Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



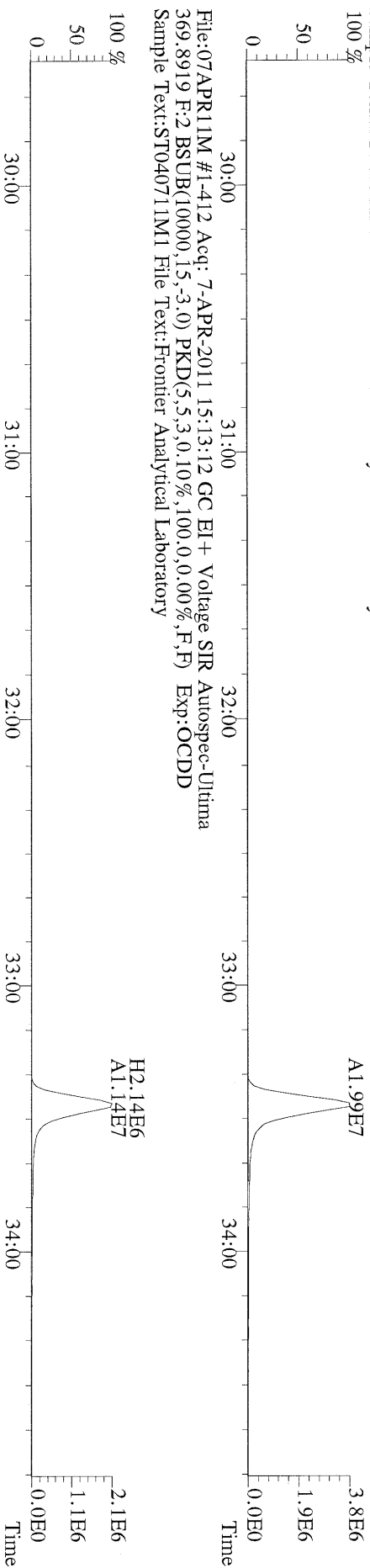
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333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



File:07APR11M #1-412 Acq: 7-APR-2011 15:13:12 GC EI + Voltage SIR Autospec-Ultima  
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



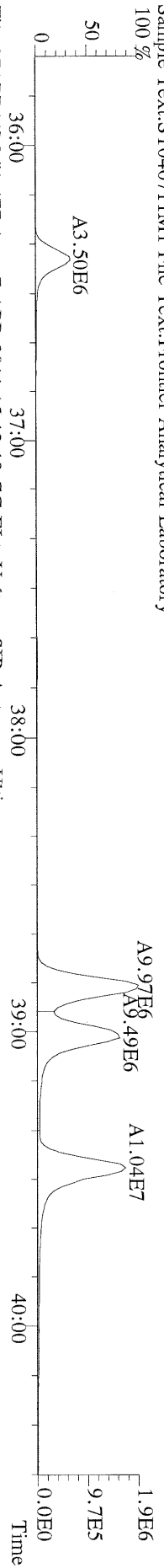
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Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



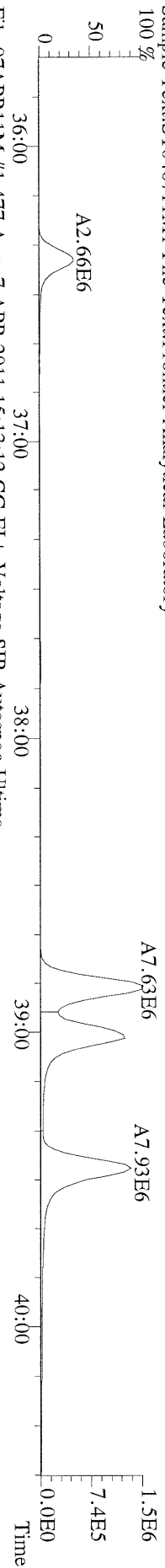
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366.9792 F:2 Exp:OCDD  
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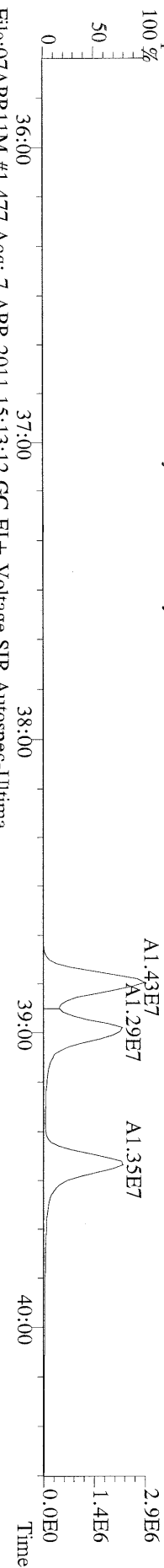
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Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory  
100 %



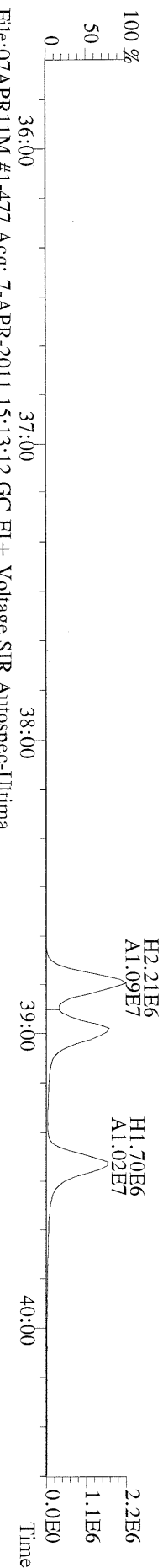
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391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory  
100 %



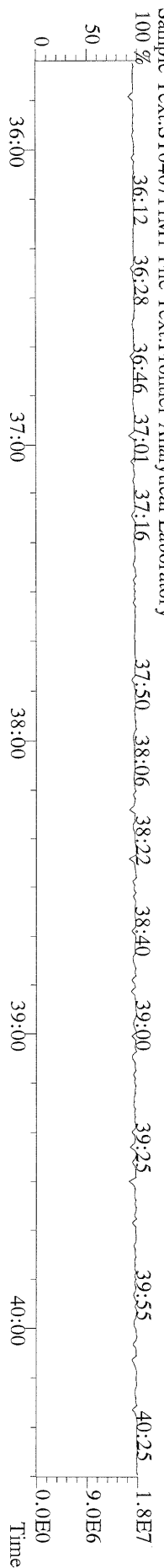
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401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory  
100 %



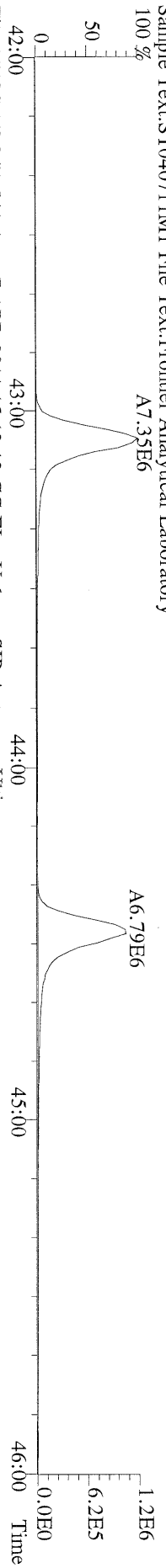
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403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:OCDD  
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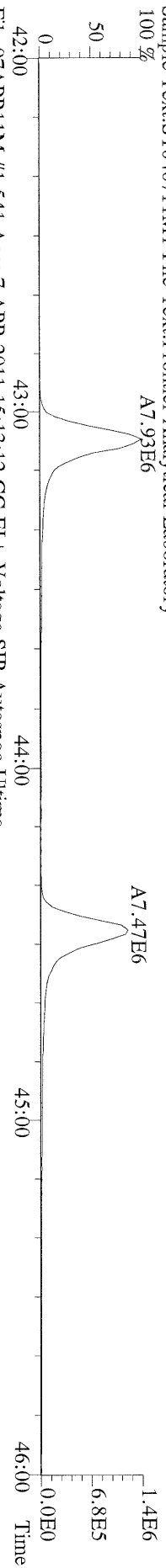
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Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory  
100 %



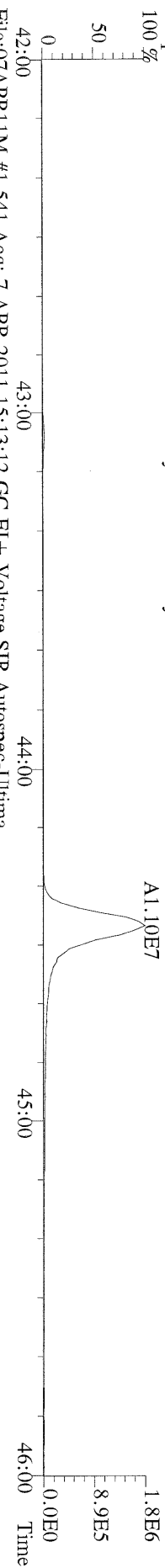
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423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory  
100 %



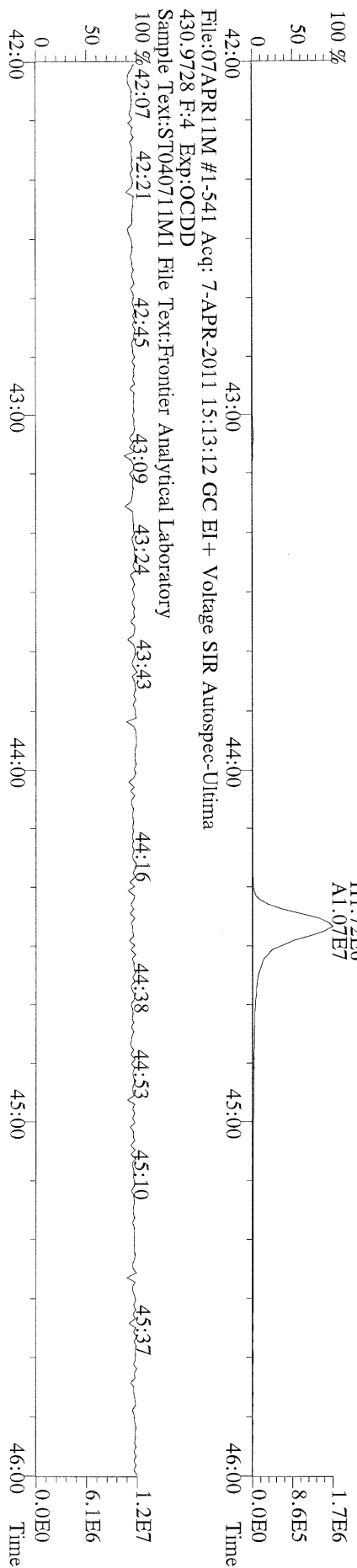
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Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory  
100 %



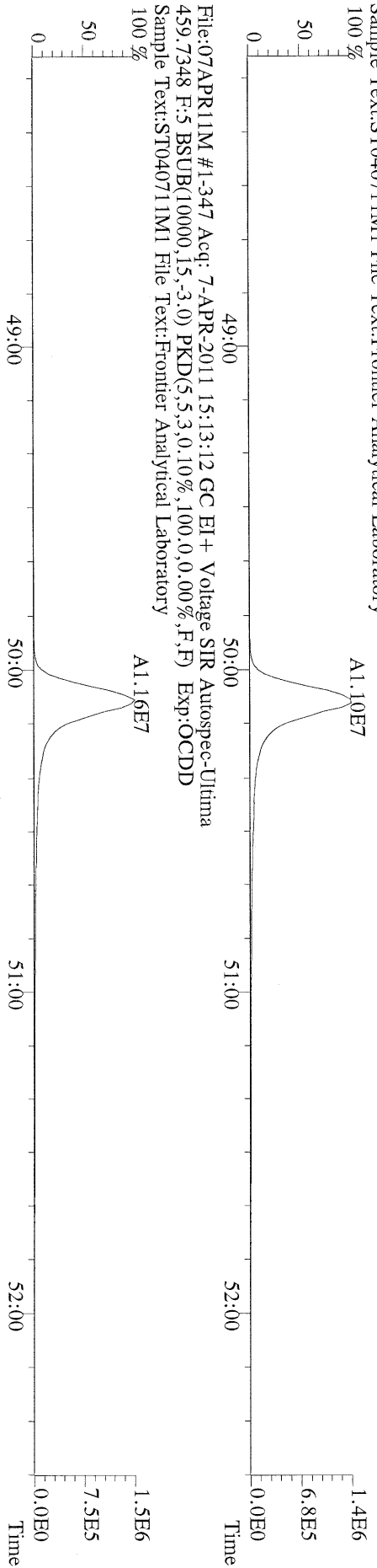
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435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory  
100 %



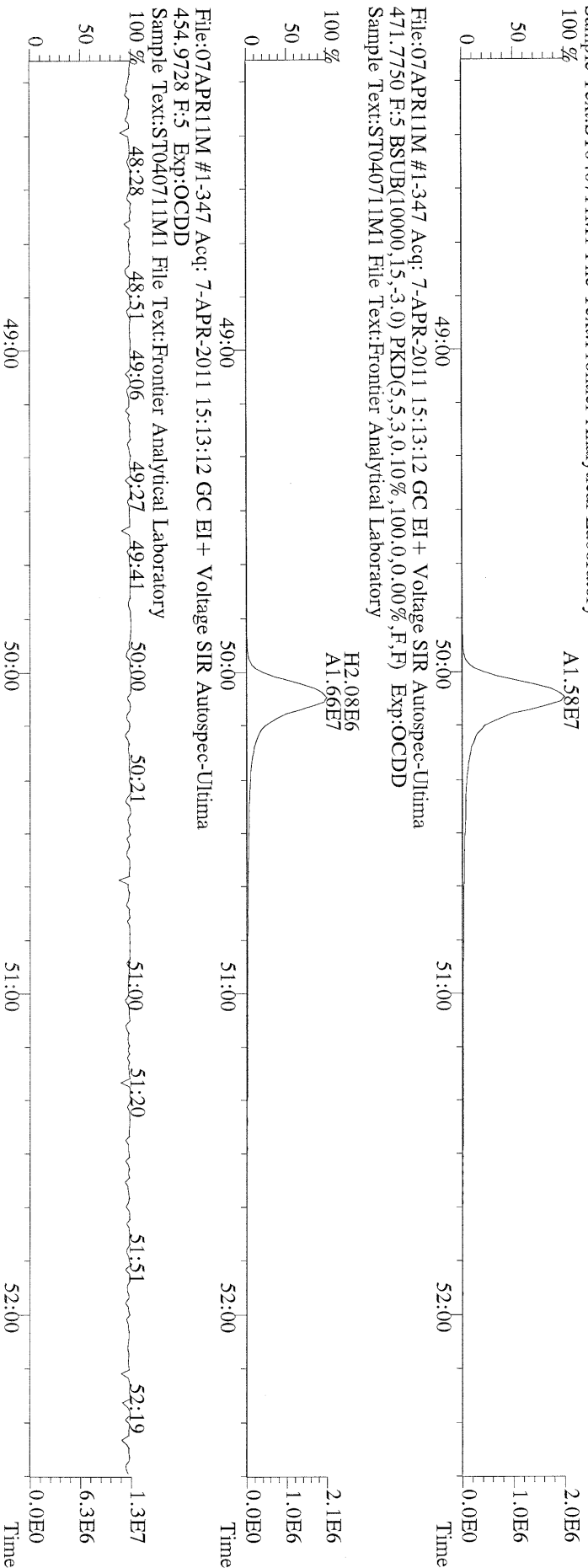
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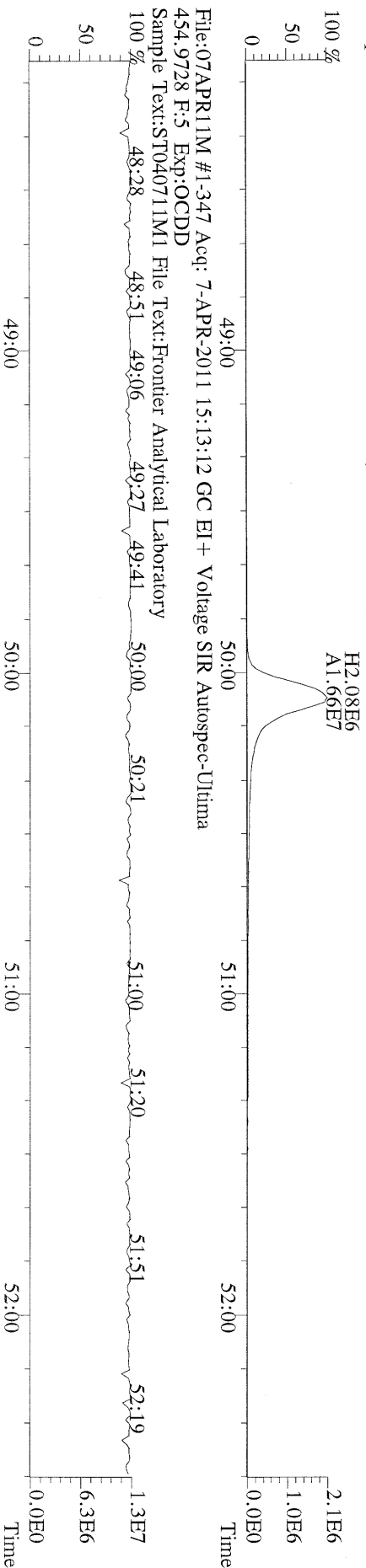
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457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST04071IM1 File Text:Frontier Analytical Laboratory  
100 %



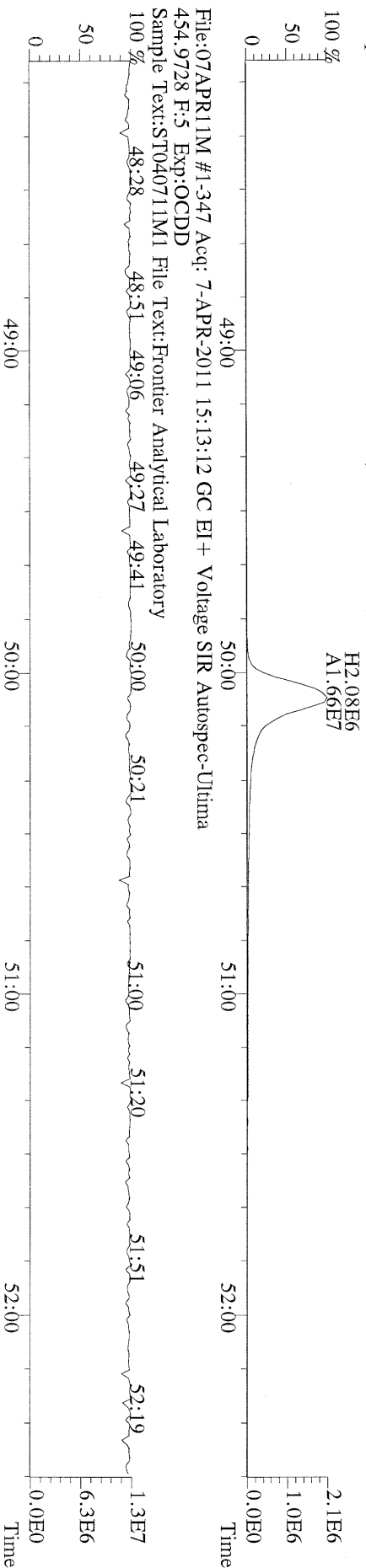
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469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:OCDD  
Sample Text:ST04071IM1 File Text:Frontier Analytical Laboratory  
100 %



File:07APR11M #1-347 Acq: 7-APR-2011 15:13:12 GC EI + Voltage SIR Autospec-Ultima  
454.9728 F:5 Exp:OCDD  
Sample Text:ST04071IM1 File Text:Frontier Analytical Laboratory  
100 %

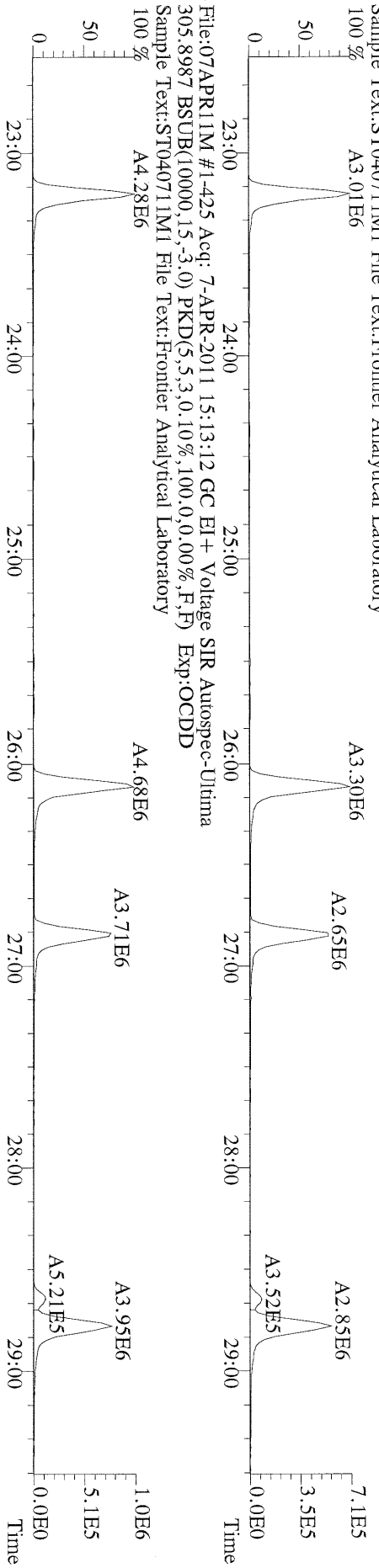


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100 %

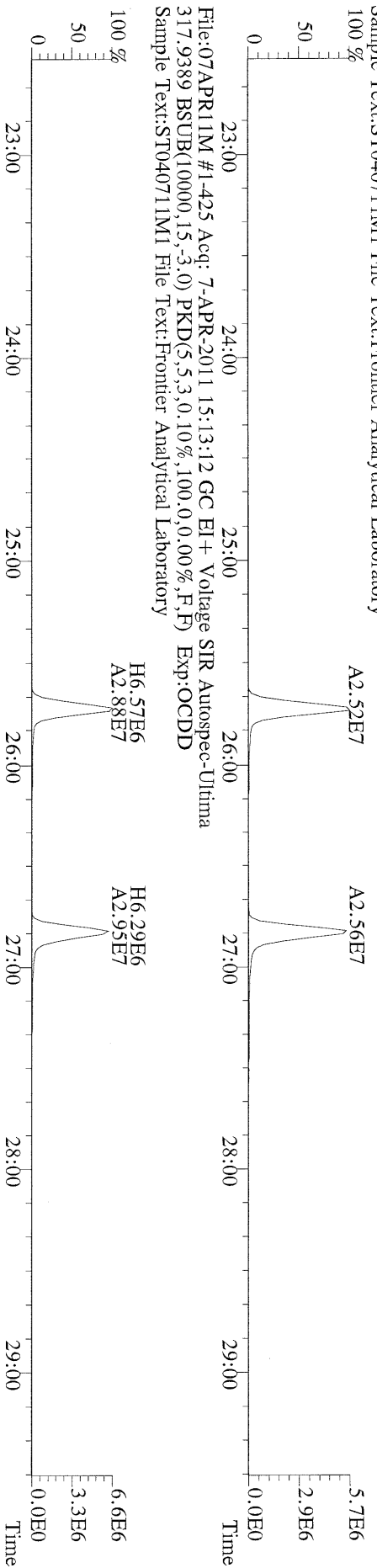




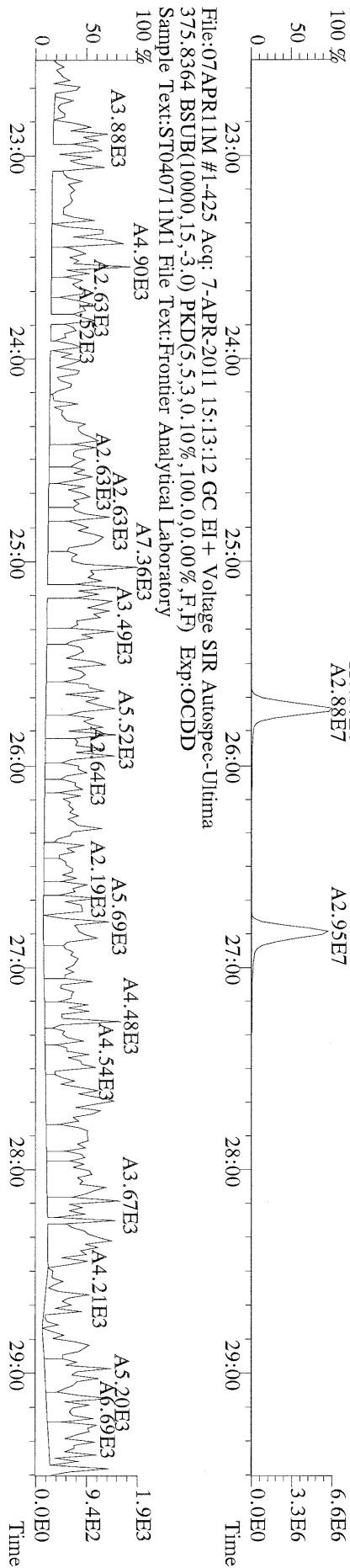
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303.9016 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



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315.9419 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
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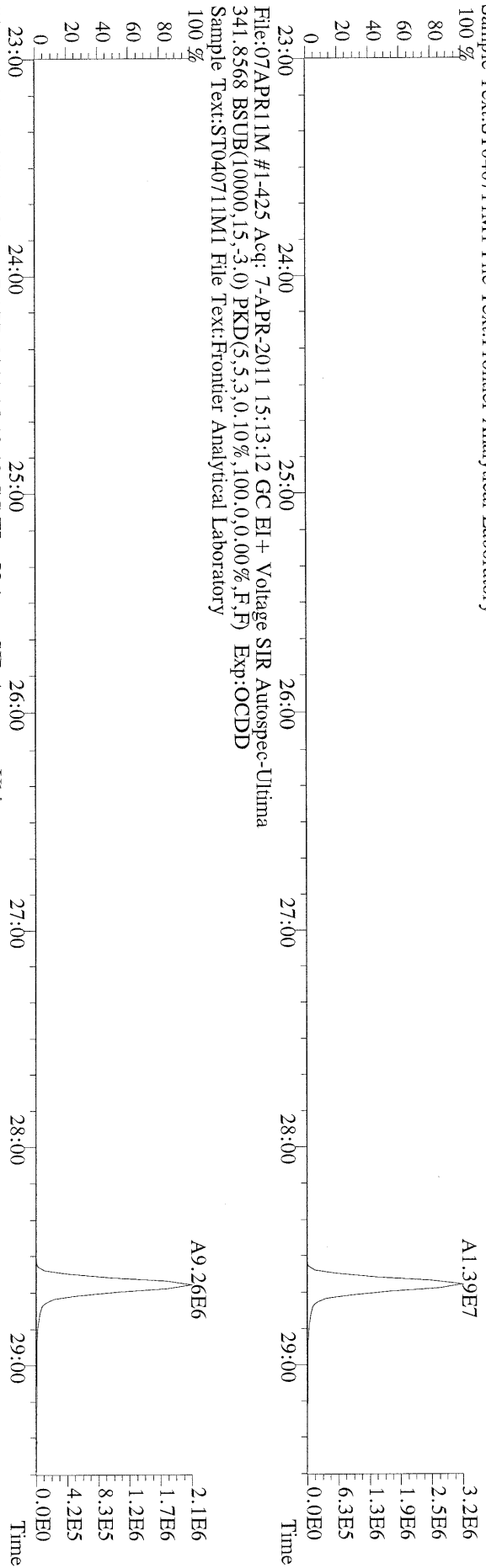


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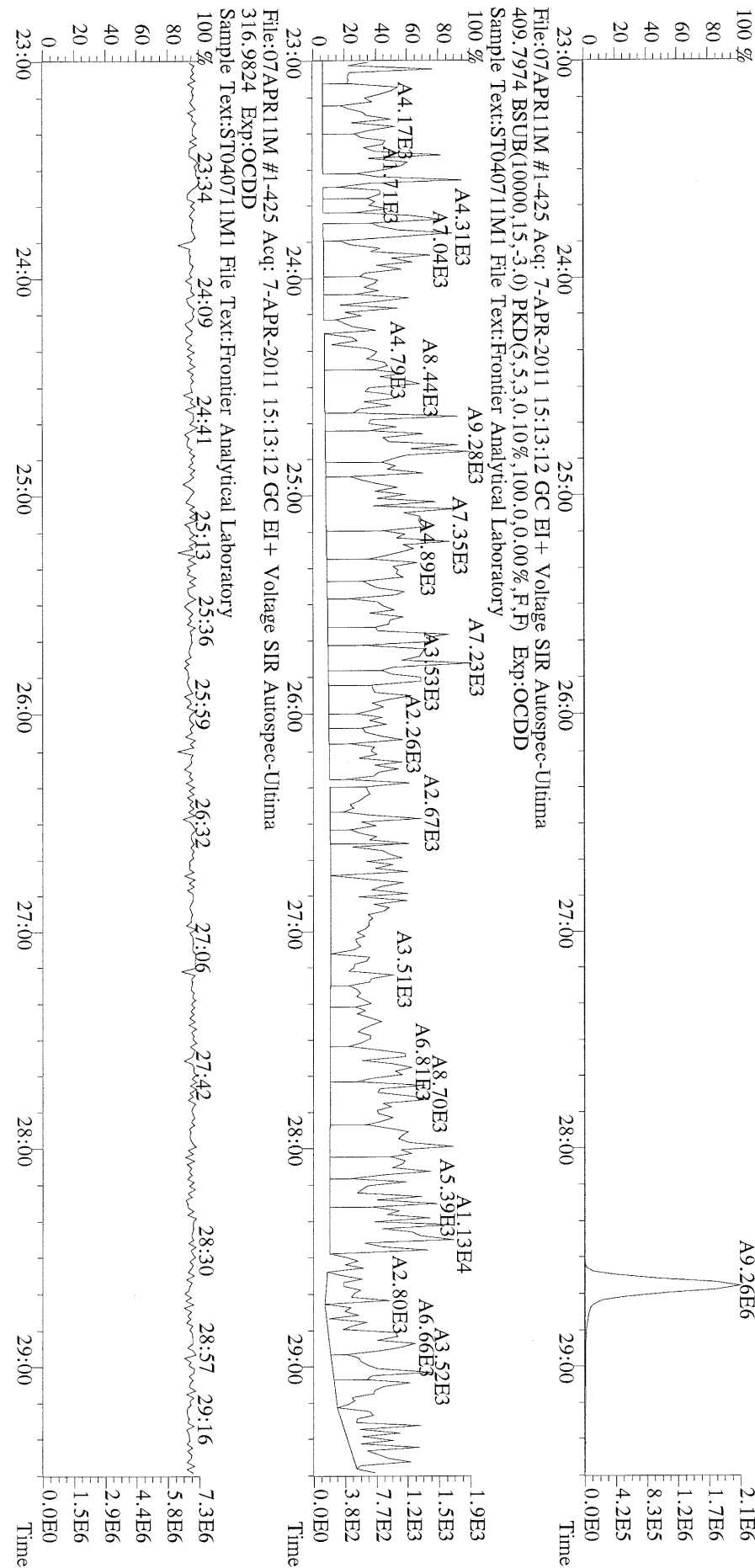


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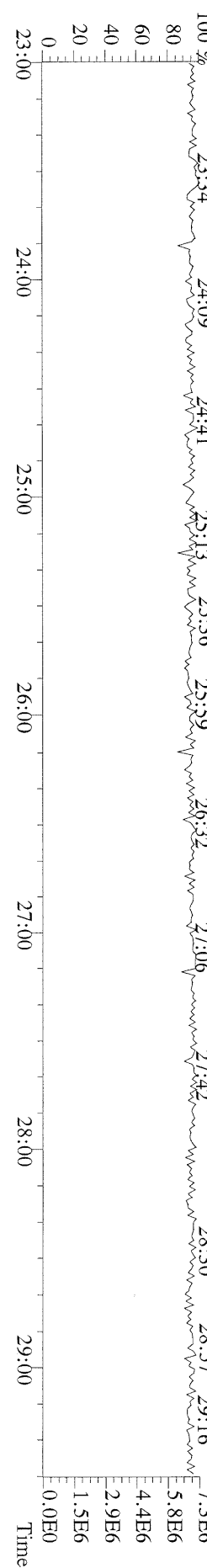
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 Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



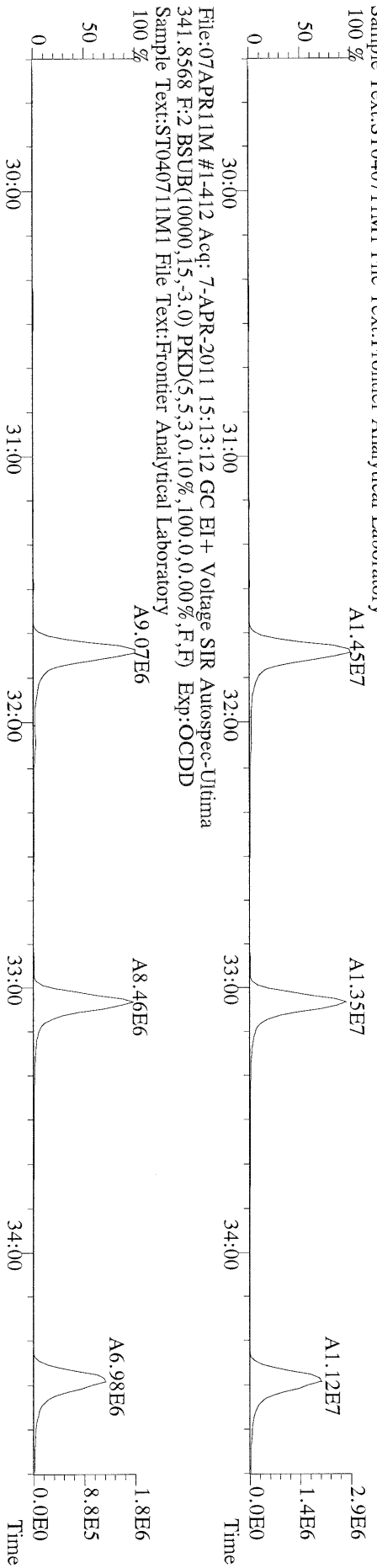
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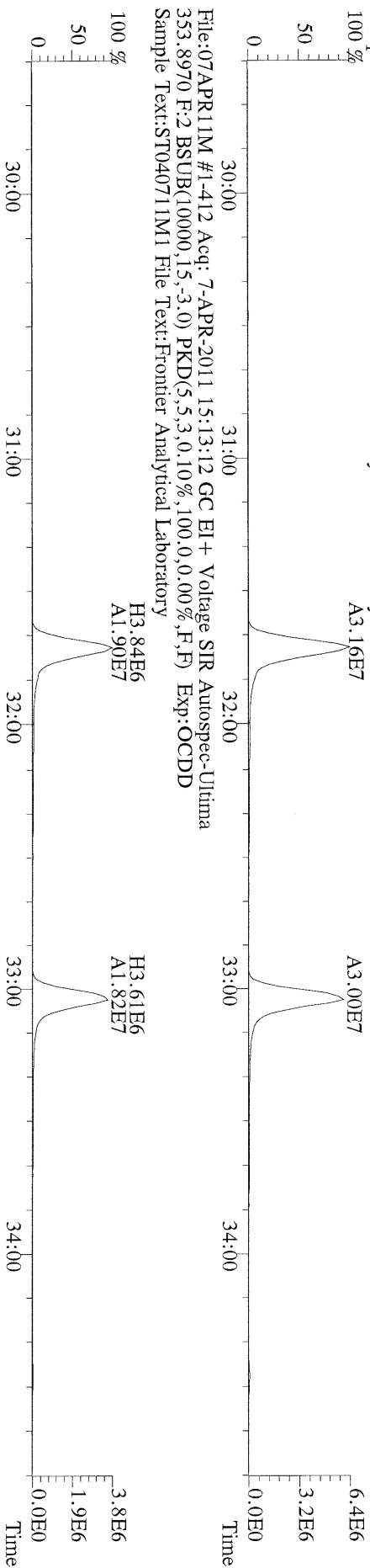
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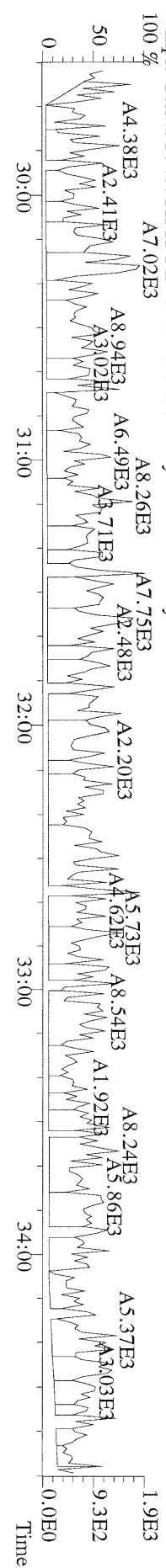
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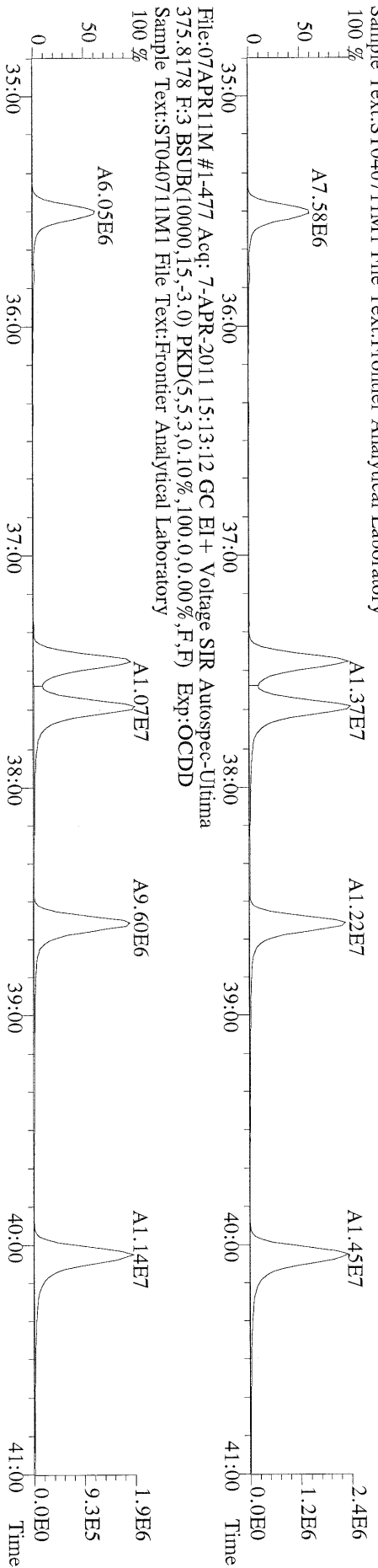
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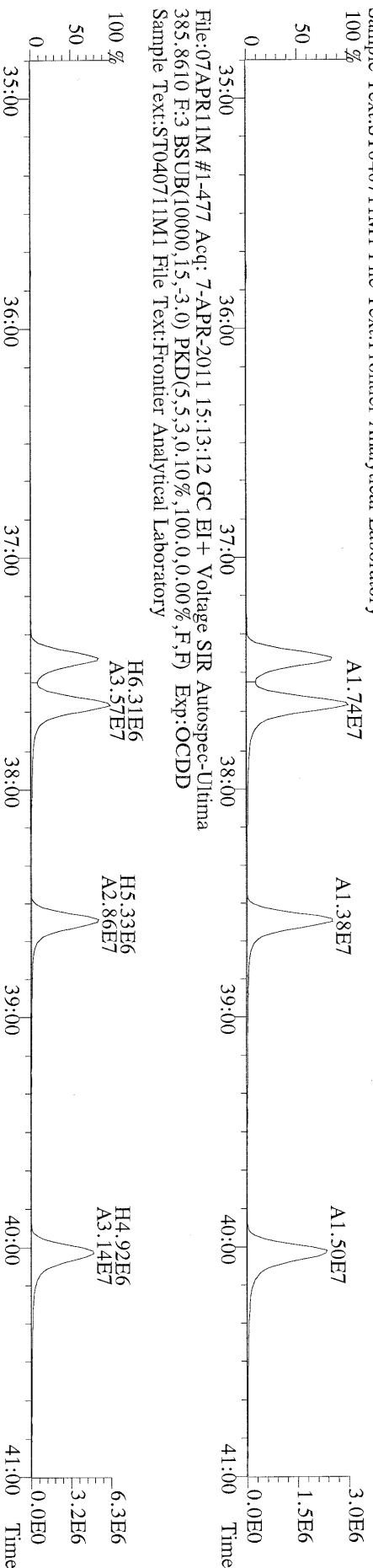
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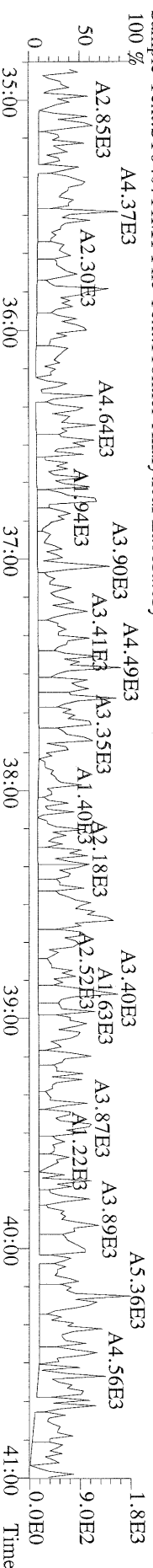
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373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD  
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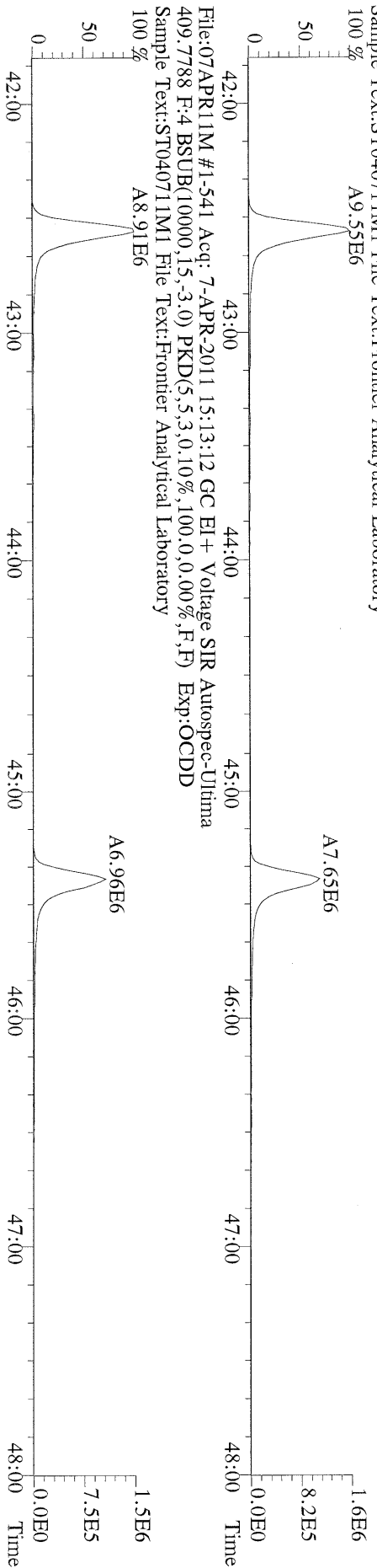
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383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD  
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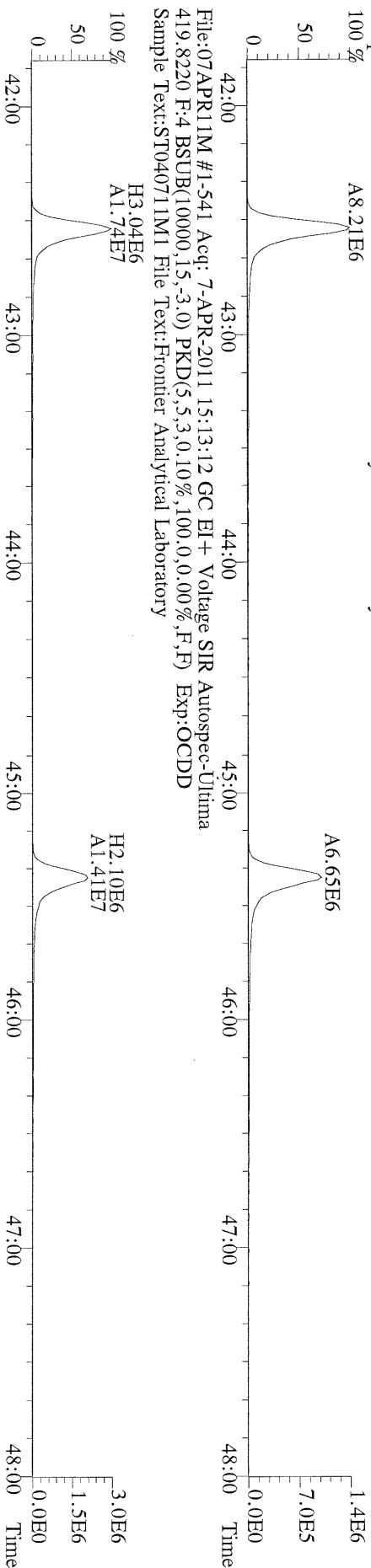
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445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD  
Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



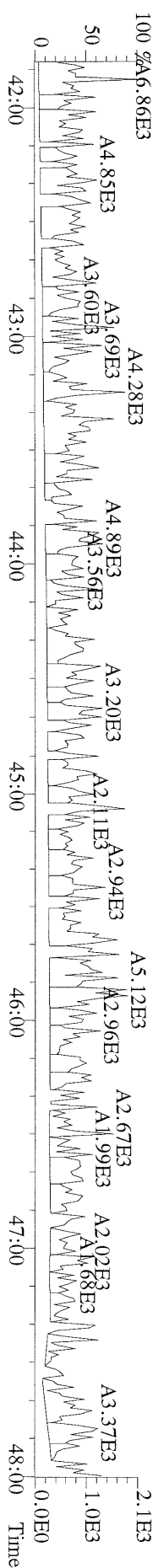
File:07APR11M #1-541 Acq: 7-APR-2011 15:13:12 GC EI+ Voltage SIR Autospec-Ultima  
 407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD  
 Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



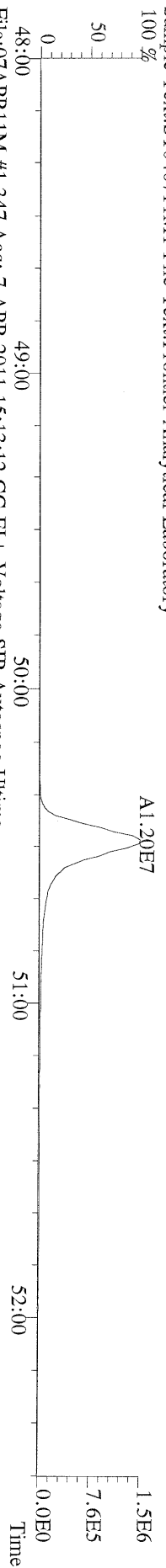
File:07APR11M #1-541 Acq: 7-APR-2011 15:13:12 GC EI+ Voltage SIR Autospec-Ultima  
 417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD  
 Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



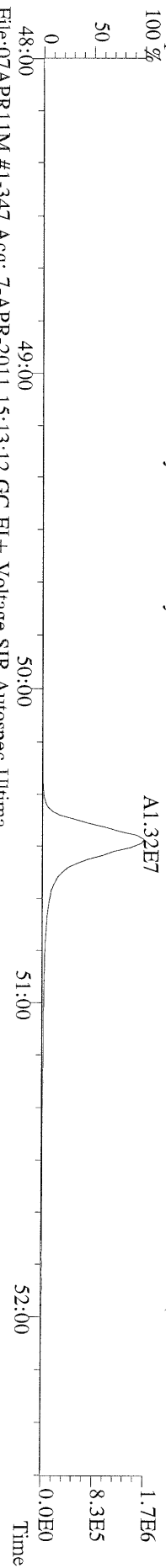
File:07APR11M #1-541 Acq: 7-APR-2011 15:13:12 GC EI+ Voltage SIR Autospec-Ultima  
 419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:OCDD  
 Sample Text:ST040711M1 File Text:Frontier Analytical Laboratory



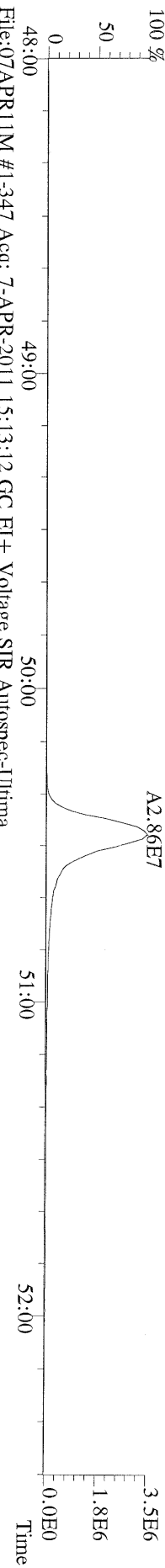
File:07APR11M #1-347 Acq: 7-APR-2011 15:13:12 GC EI+ Voltage SIR Autospec-Utima  
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST04071IM1 File Text:Frontier Analytical Laboratory



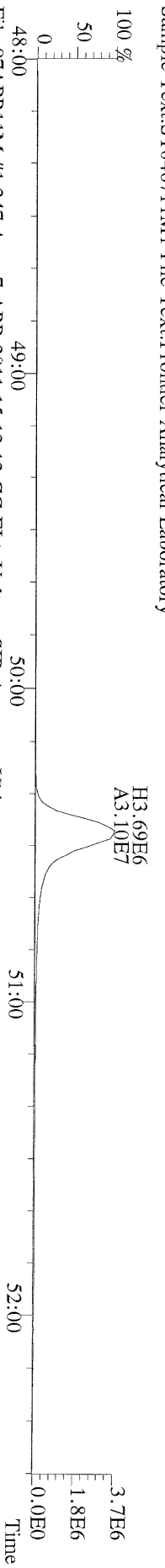
File:07APR11M #1-347 Acq: 7-APR-2011 15:13:12 GC EI+ Voltage SIR Autospec-Utima  
443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST04071IM1 File Text:Frontier Analytical Laboratory



File:07APR11M #1-347 Acq: 7-APR-2011 15:13:12 GC EI+ Voltage SIR Autospec-Utima  
453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST04071IM1 File Text:Frontier Analytical Laboratory



File:07APR11M #1-347 Acq: 7-APR-2011 15:13:12 GC EI+ Voltage SIR Autospec-Utima  
455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST04071IM1 File Text:Frontier Analytical Laboratory



File:07APR11M #1-347 Acq: 7-APR-2011 15:13:12 GC EI+ Voltage SIR Autospec-Utima  
513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:OCDD  
Sample Text:ST04071IM1 File Text:Frontier Analytical Laboratory

