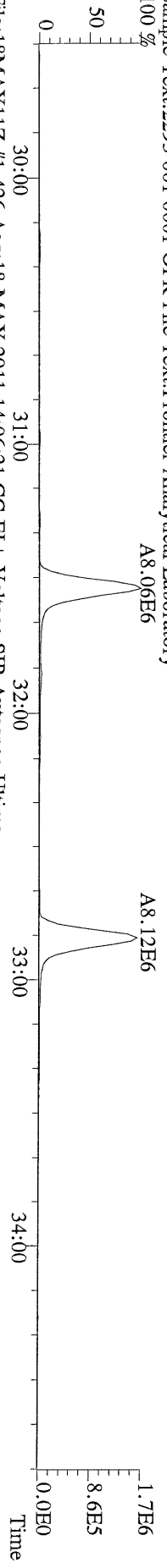
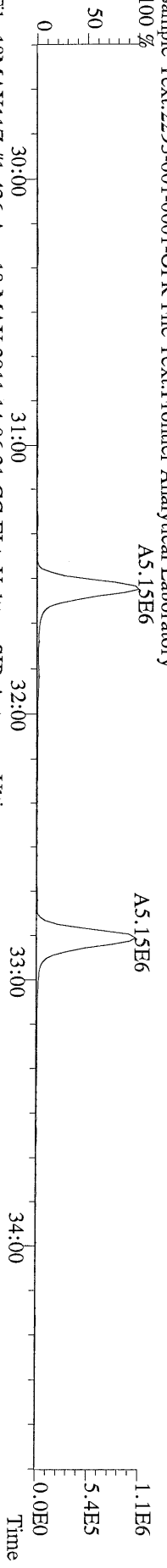


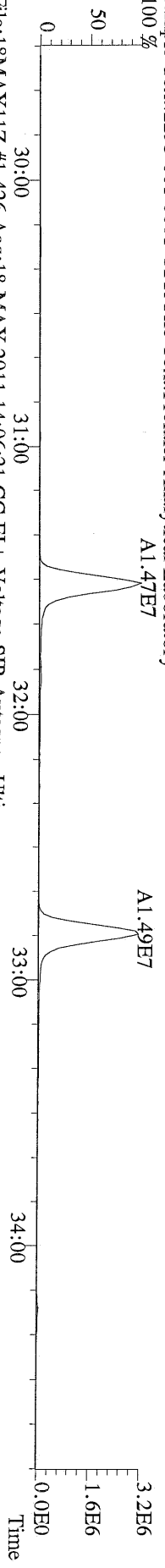
File:18MAY11Z #1-426 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



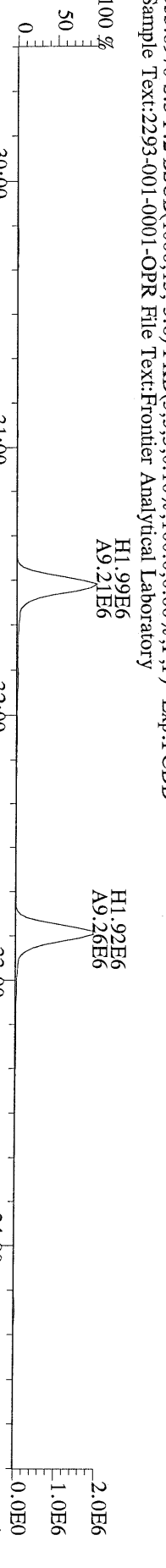
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 341.8568 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



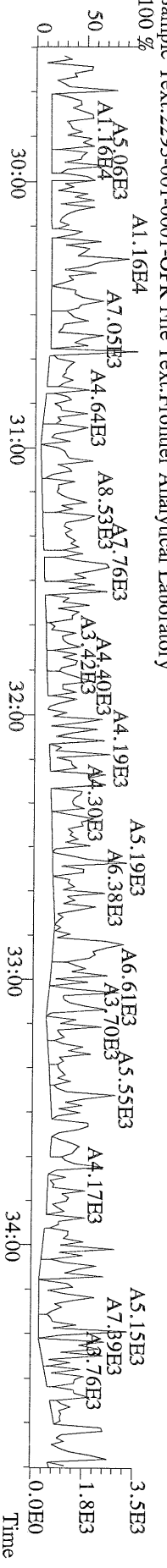
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 351.9000 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



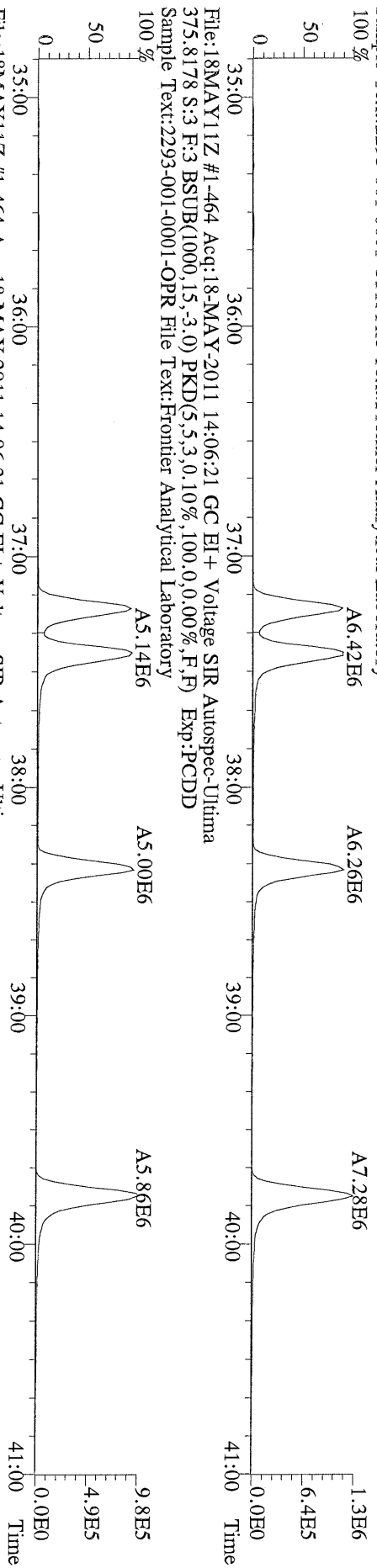
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 Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



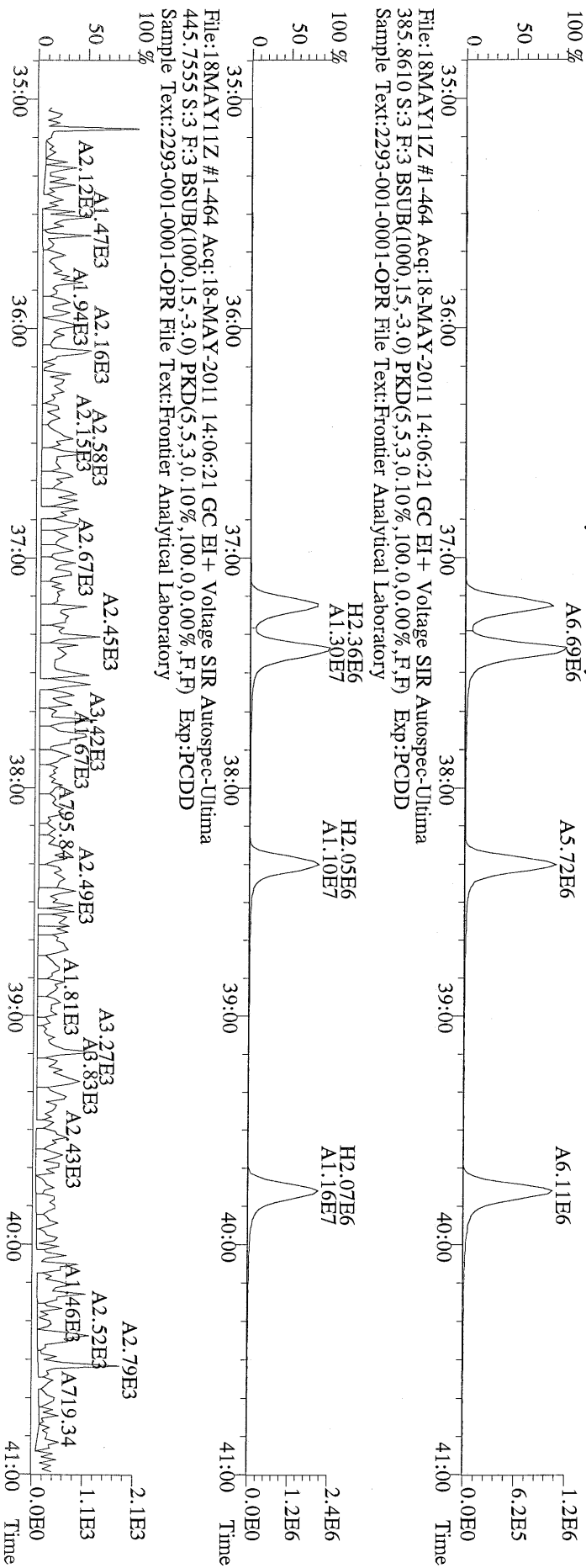
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 409.7974 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



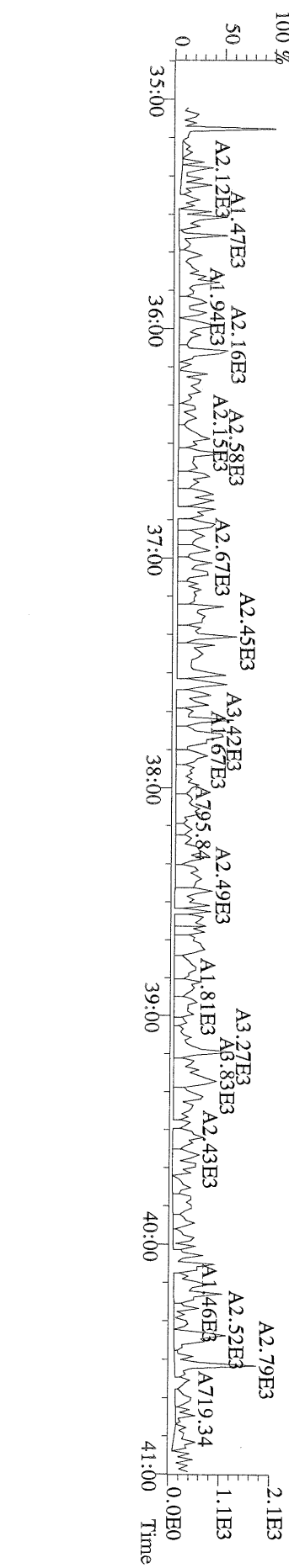
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373.8207 S:3 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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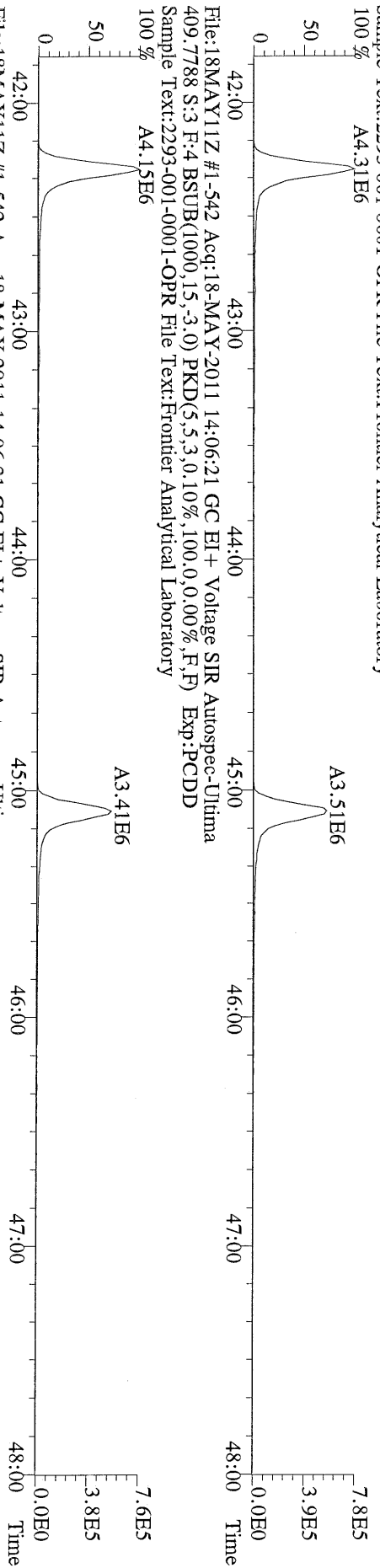
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383.8639 S:3 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



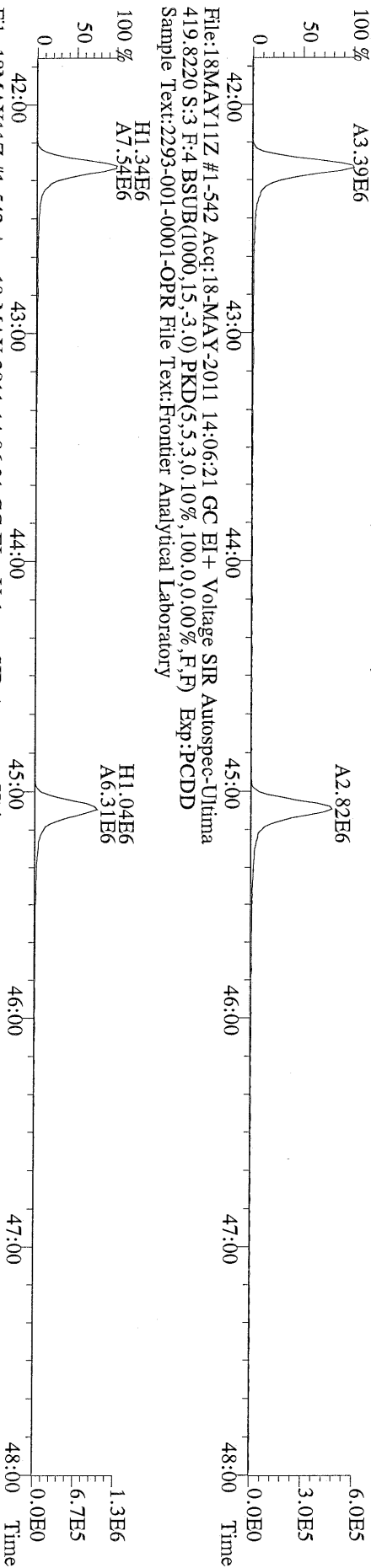
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445.7555 S:3 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



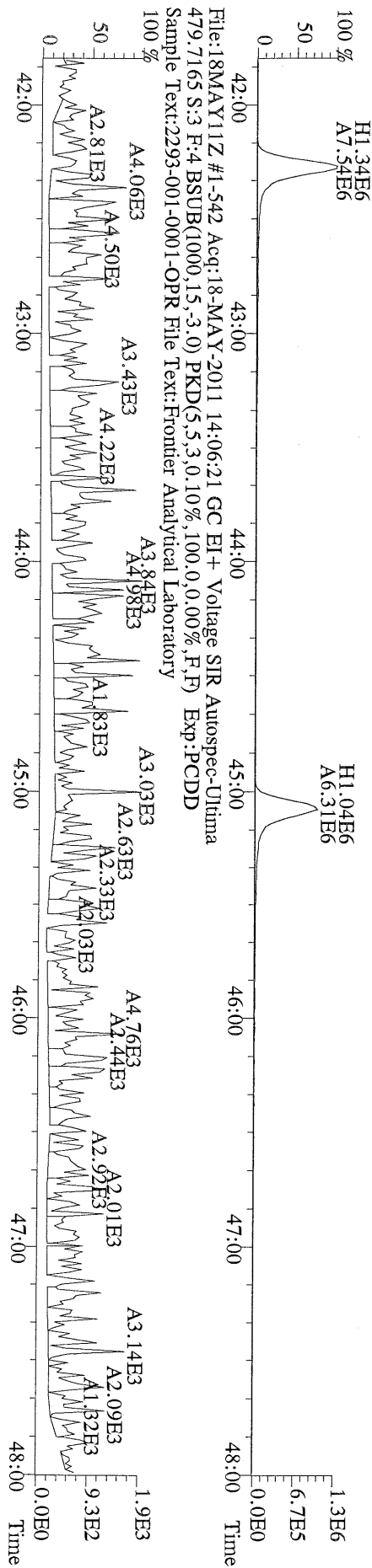
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



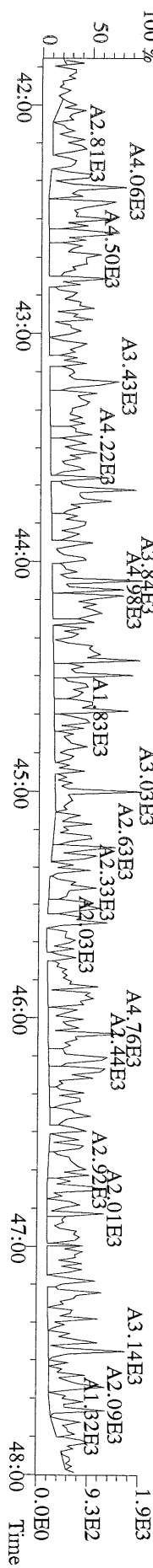
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



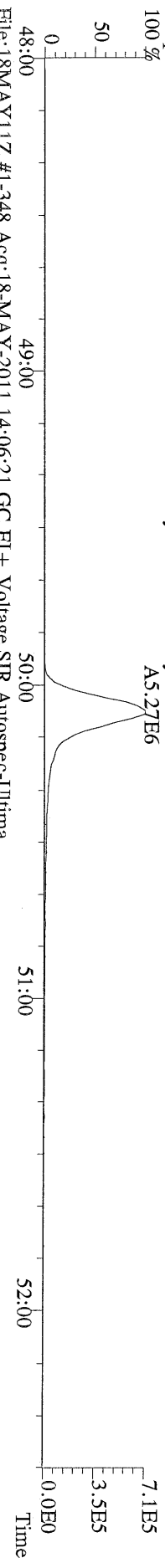
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419.8220 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



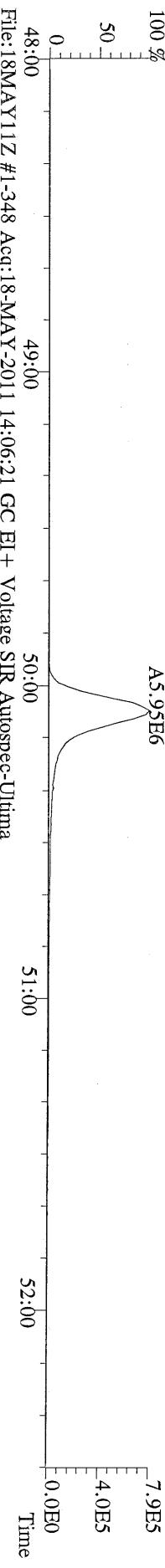
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479.7165 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



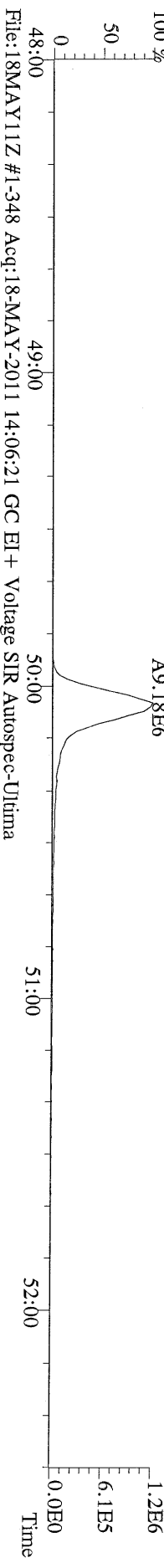
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441.7428 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



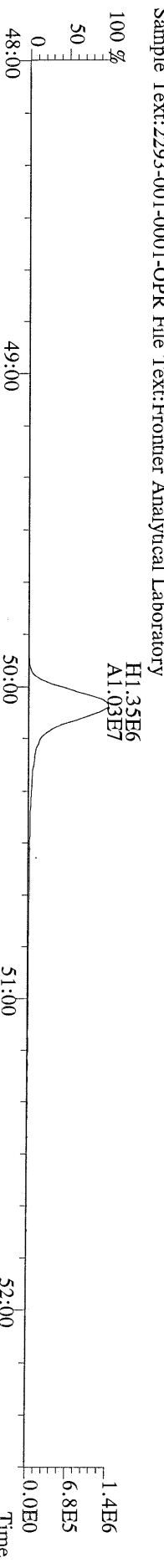
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443.7398 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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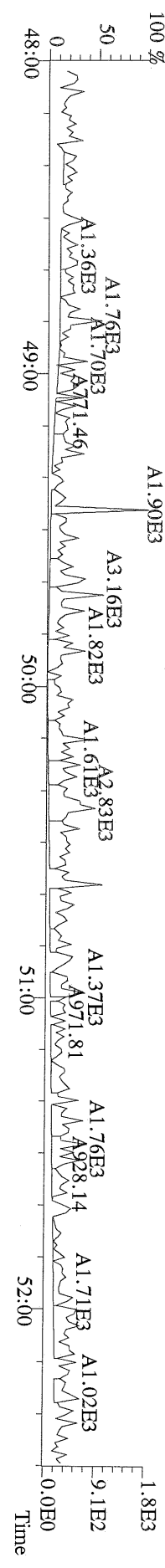
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



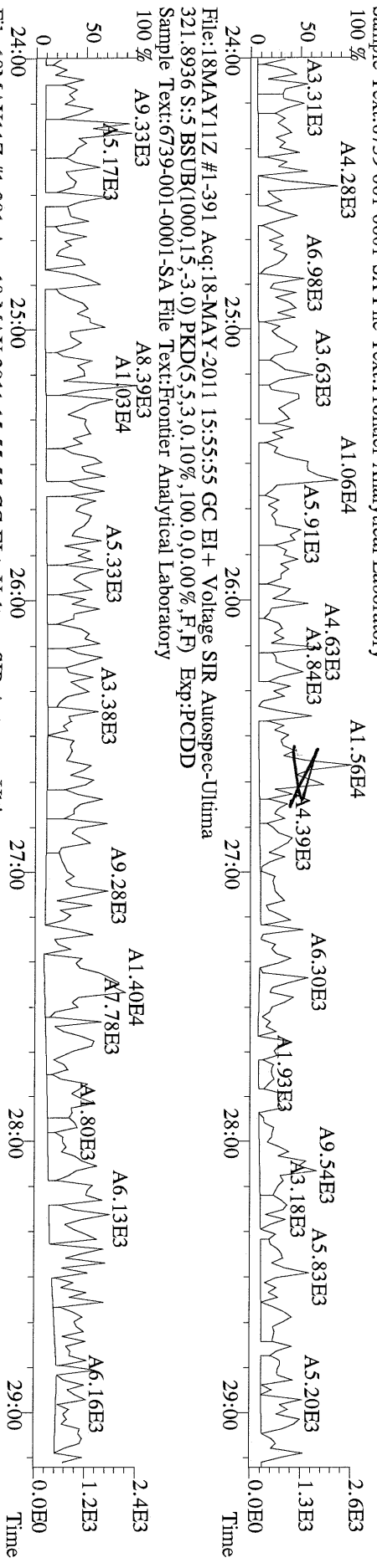
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513.6775 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



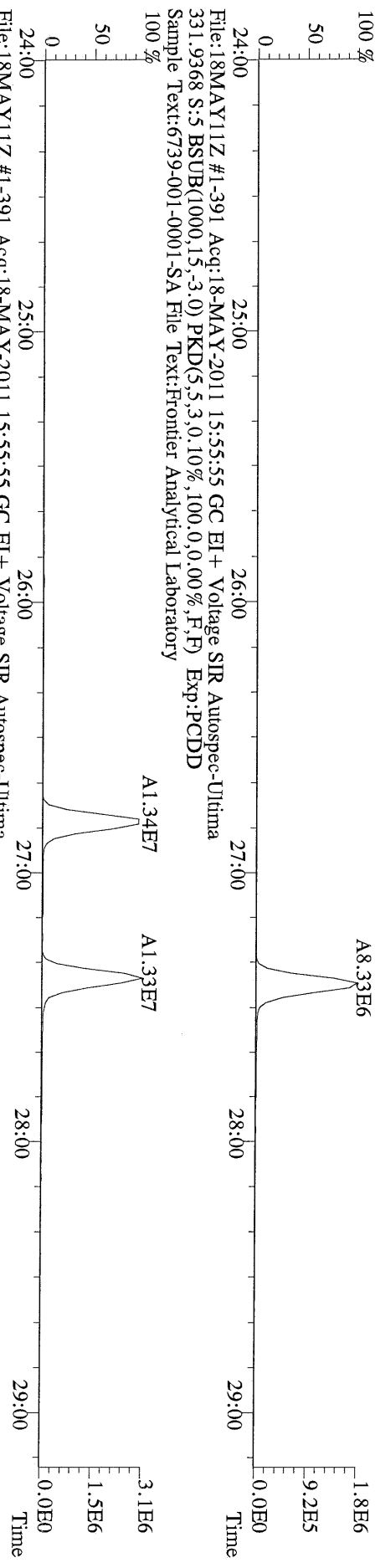
Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	#Hom
2,3,7,8-TCDD	*	* n	NotFnd	1.15	*		2.50	860	715	0.981	0
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.02	*		2.50	728	380	1.19	0
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.09	*		2.50	772	768	1.76	0
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.08	*		2.50	772	768	2.24	0
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.12	*		2.50	772	768	1.93	0
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.03	*		2.50	753	505	2.49	0
OCDD	5.94e+04	0.87 y	49:43	1.21	9.17	J	2.50	-	-	*	0
2,3,7,8-TCDF	*	* n	NotFnd	1.09	*		2.50	447	1130	0.749	0
1,2,3,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	572	1020	1.31	0
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.96	*		2.50	572	1020	1.32	0
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.18	*		2.50	680	536	1.20	0
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.03	*		2.50	680	536	1.14	0
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.17	*		2.50	680	536	1.17	0
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.27	*		2.50	680	536	1.05	0
1,2,3,4,6,7,8-HpCDF	*	* n	NotFnd	1.36	*		2.50	508	496	1.21	0
1,2,3,4,7,8,9-HpCDF	*	* n	NotFnd	1.35	*		2.50	508	496	1.53	0
OCDF	*	* n	NotFnd	0.97	*		2.50	354	572	2.37	0
											Rec
13C-2,3,7,8-TCDD	3.00e+07	0.80 y	27:24	0.99	2020						101
13C-1,2,3,7,8-PeCDD	2.16e+07	1.62 y	33:15	0.79	1820						91.2
13C-1,2,3,4,7,8-HxCDD	1.93e+07	1.27 y	38:36	1.03	1940						97.4
13C-1,2,3,6,7,8-HxCDD	1.75e+07	1.27 y	38:45	0.96	1900						95.1
13C-1,2,3,4,6,7,8-HpCDD	1.42e+07	1.05 y	44:10	0.75	1970						98.8
13C-OCDD	2.15e+07	0.88 y	49:42	0.50	4430						111
13C-2,3,7,8-TCDF	4.27e+07	0.80 y	26:37	0.98	2030						102
13C-1,2,3,7,8-PeCDF	3.09e+07	1.60 y	31:31	0.78	1850						92.7
13C-2,3,4,7,8-PeCDF	3.04e+07	1.59 y	32:49	0.75	1880						94.0
13C-1,2,3,4,7,8-HxCDF	2.15e+07	0.53 y	37:12	1.05	2120						106
13C-1,2,3,6,7,8-HxCDF	2.73e+07	0.52 y	37:25	1.40	2020						101
13C-2,3,4,6,7,8-HxCDF	2.31e+07	0.54 y	38:20	1.16	2070						104
13C-1,2,3,7,8,9-HxCDF	2.58e+07	0.51 y	39:46	1.30	2070						103
13C-1,2,3,4,6,7,8-HpCDF	1.67e+07	0.44 y	42:16	0.83	2100						105
13C-1,2,3,4,7,8,9-HpCDF	1.41e+07	0.45 y	45:05	0.69	2110						106
13C-OCDF	2.95e+07	0.89 y	50:04	0.77	3980						99.7
37Cl-2,3,7,8-TCDD	8.33e+06		27:25	0.71	782						97.9
13C-1,2,3,4-TCDD	2.99e+07	0.81 y	26:48	-	56.0						
13C-1,2,3,4-TCDF	4.29e+07	0.80 y	25:32	-	57.2						
13C-1,2,3,7,8,9-HxCDD	1.92e+07	1.29 y	39:12	-	49.6						
Total Tetra-Dioxins	*		NotFnd	1.15	*		2.50	860	715	0.981	0
Total Penta-Dioxins	*		NotFnd	1.02	*		2.50	728	380	1.19	0
Total Hexa-Dioxins	*		NotFnd	1.10	*		2.50	772	768	2.24	0
Total Hepta-Dioxins	*		NotFnd	1.03	*		2.50	753	505	2.49	0
Total Tetra-Furans	*		NotFnd	1.09	*		2.50	447	1130	0.749	0
1st Fn. Tot Penta-Furans	*		NotFnd	0.96	*		2.50	572	1020	1.32 PeCDF	0
Total Penta-Furans	*		NotFnd	0.96	*		2.50	572	1020	1.32	0.00
Total Hexa-Furans	*		NotFnd	1.16	*		2.50	680	536	1.20	0
Total Hepta-Furans	*		NotFnd	1.36	*		2.50	508	496	1.53	0

Analyst: J Date: 5/19/11

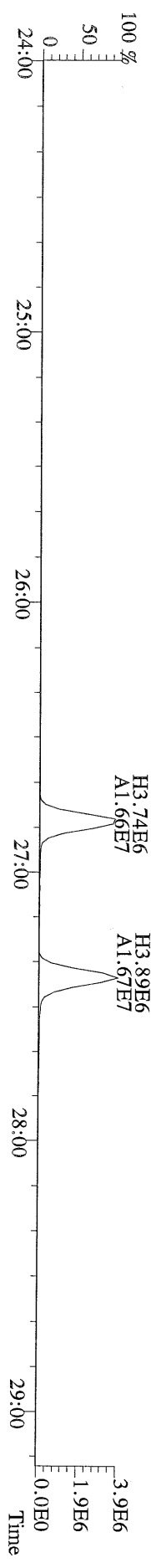
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 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



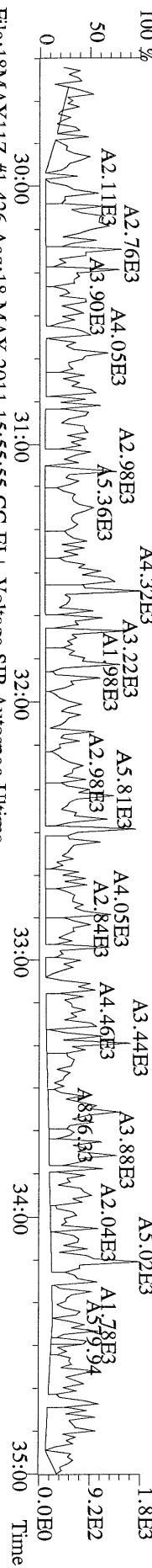
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 327.8847 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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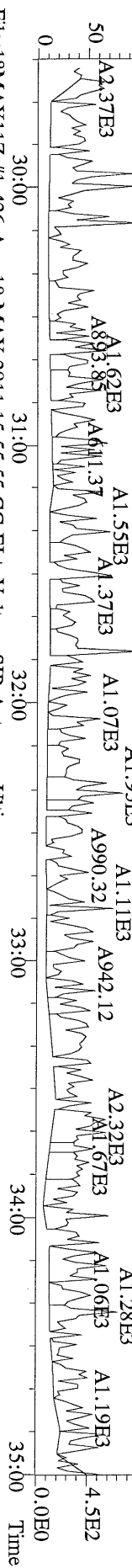
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 333.9339 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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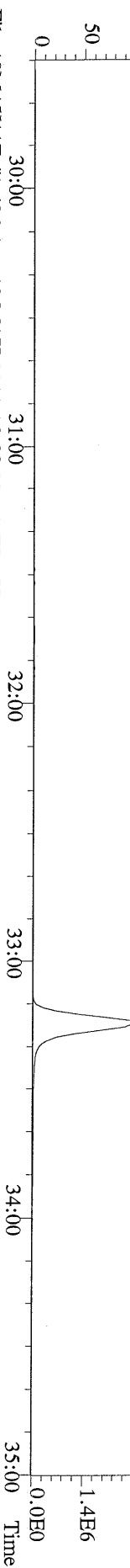
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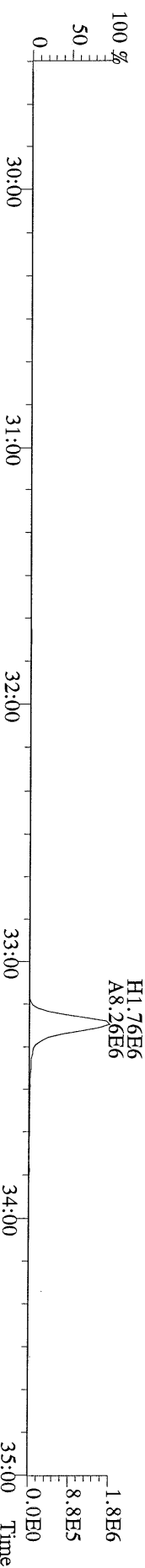
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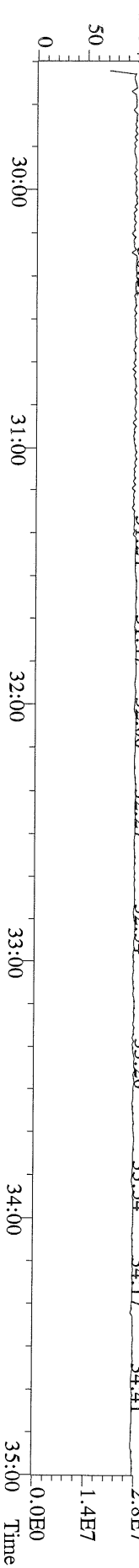
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 367.8949 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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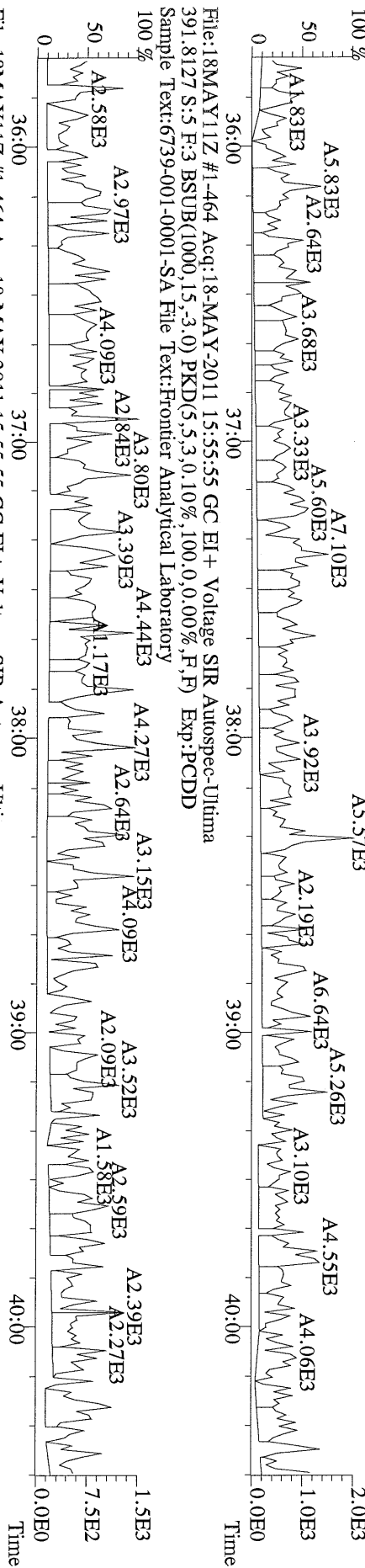
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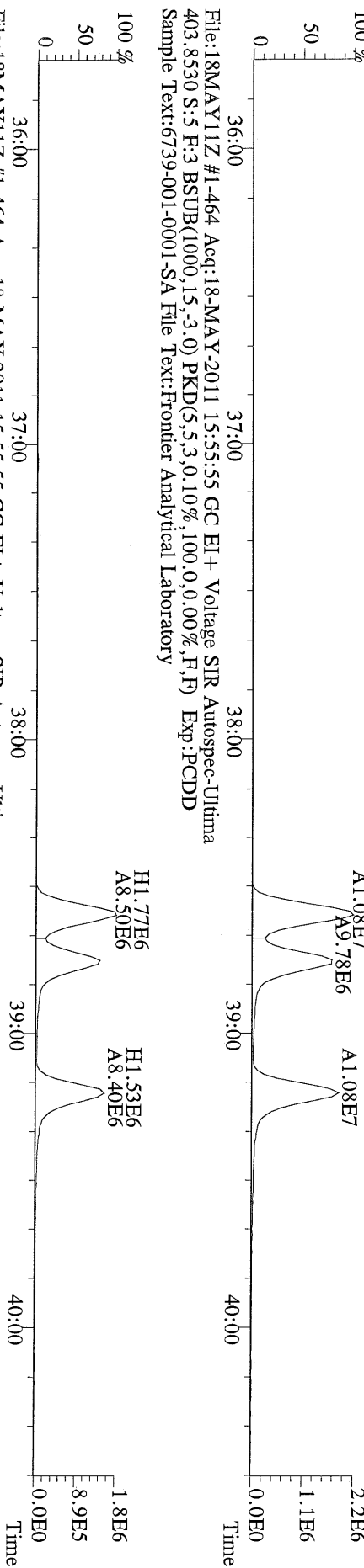
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 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



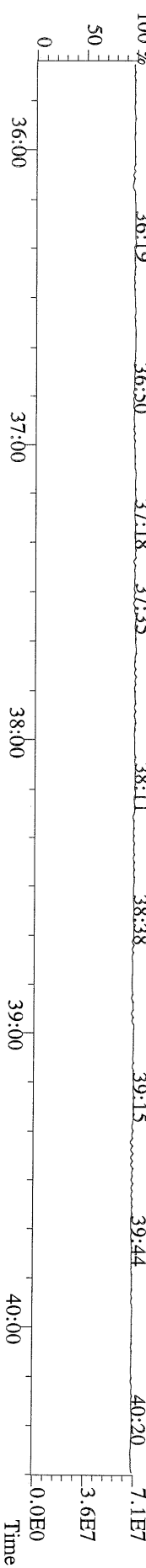
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389.8156 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



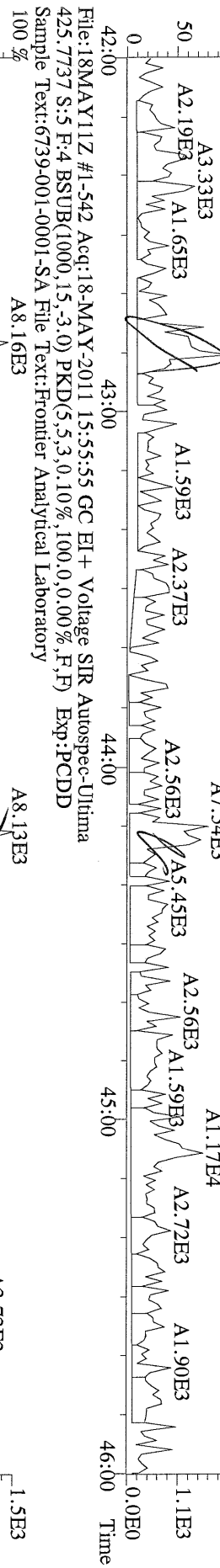
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401.8559 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



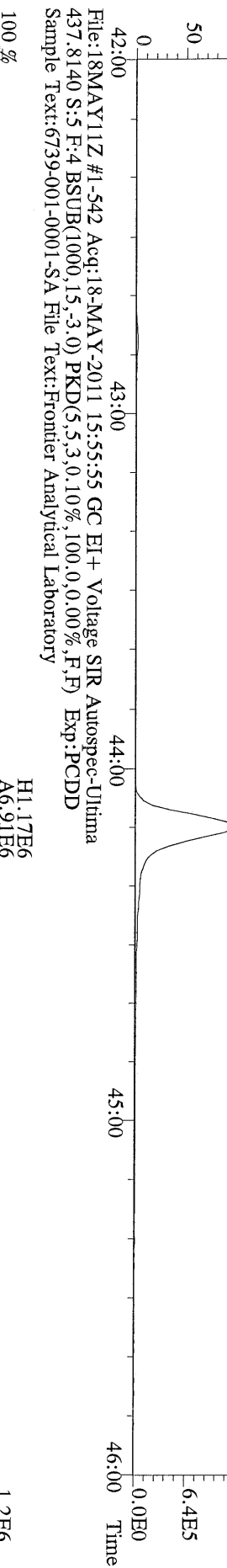
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380.9760 S:5 F:3 Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



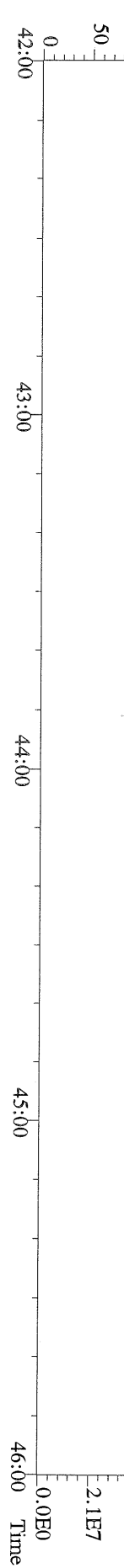
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 423.7767 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



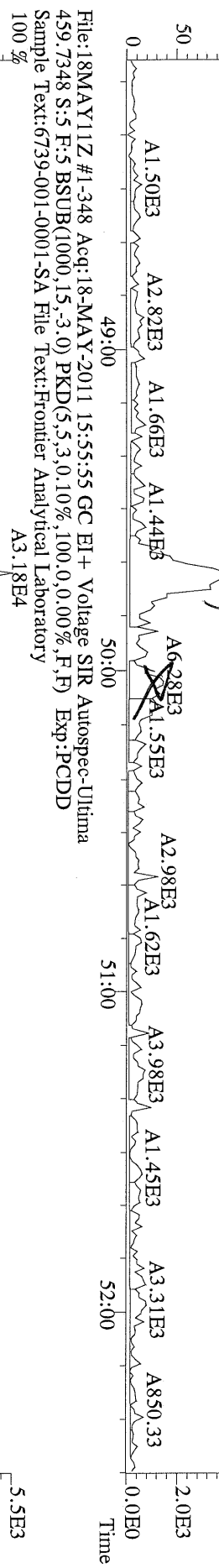
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 435.8169 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



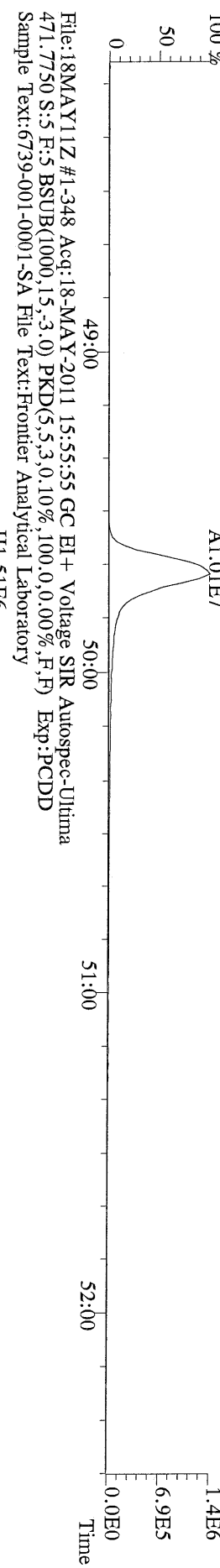
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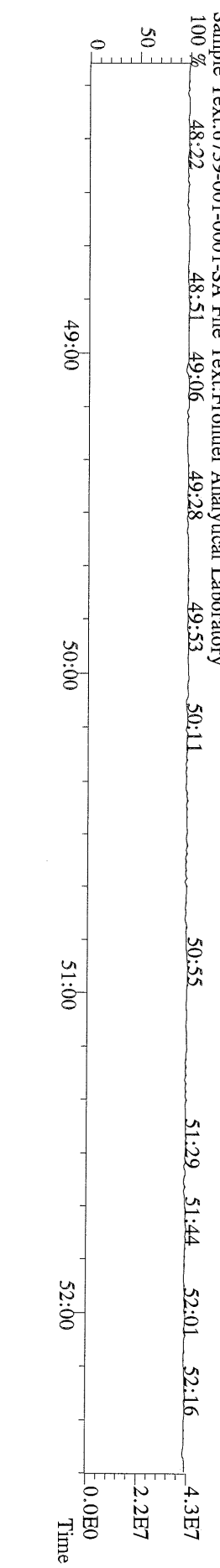
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457.7377 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



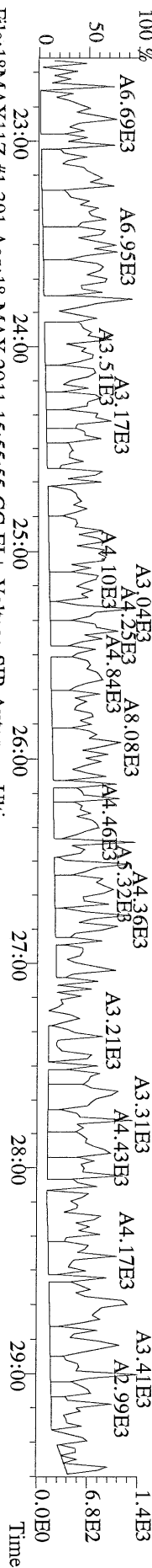
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469.7780 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



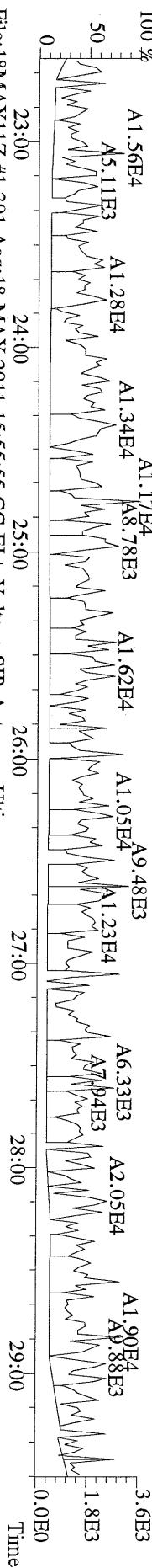
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Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



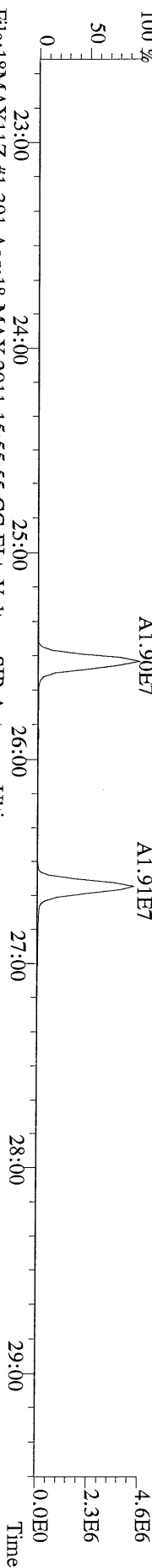
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Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



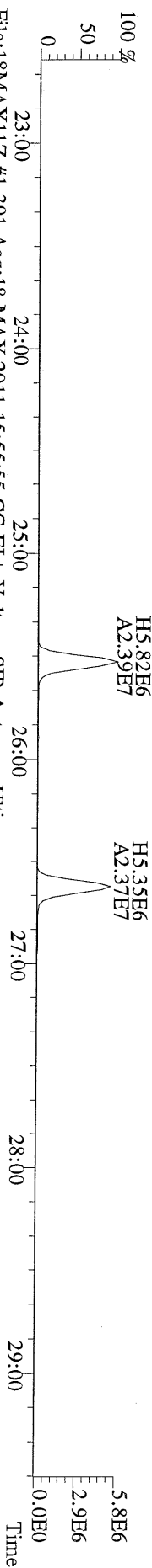
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305.8987 S:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



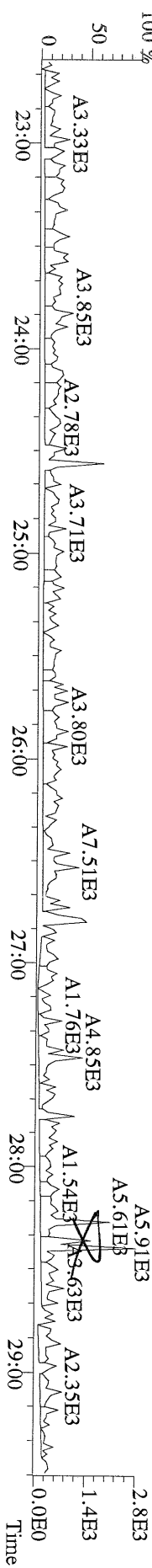
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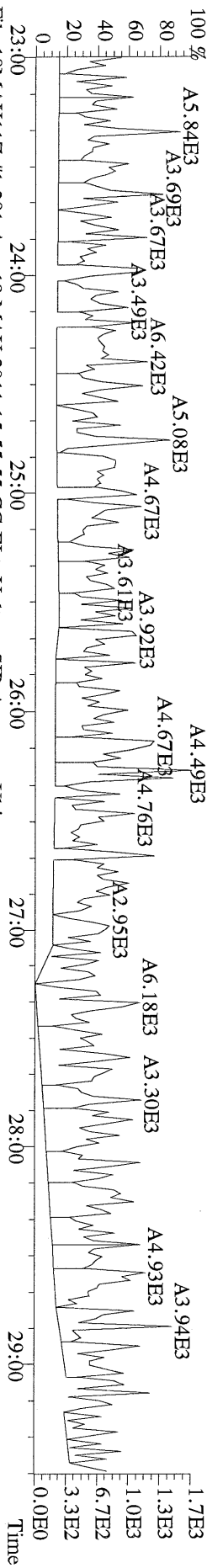
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Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



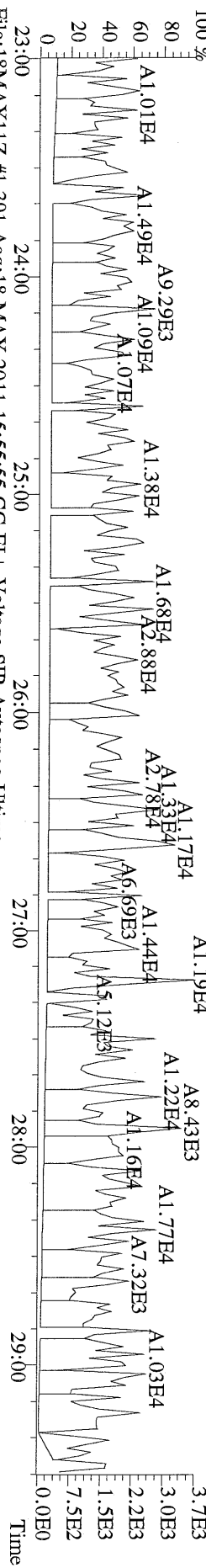
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Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



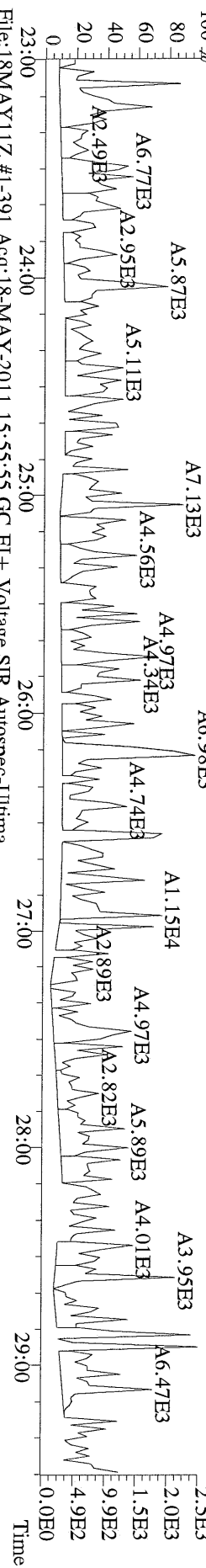
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 339.8597 S:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



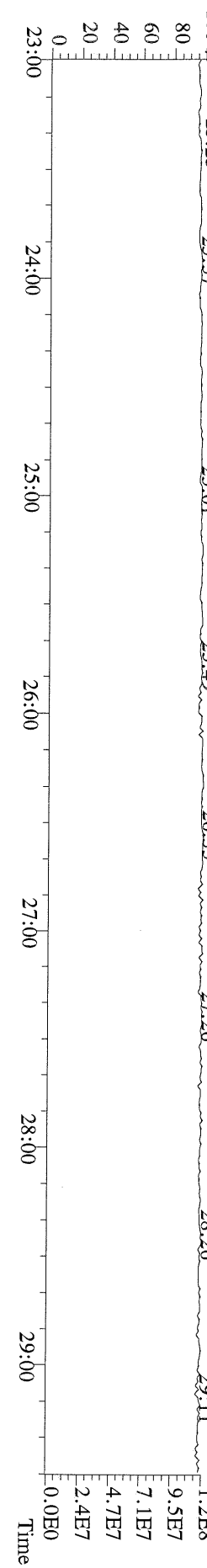
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 341.8568 S:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



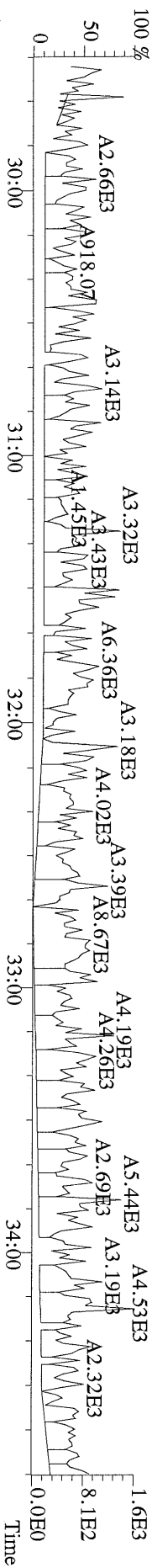
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 409.7974 S:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



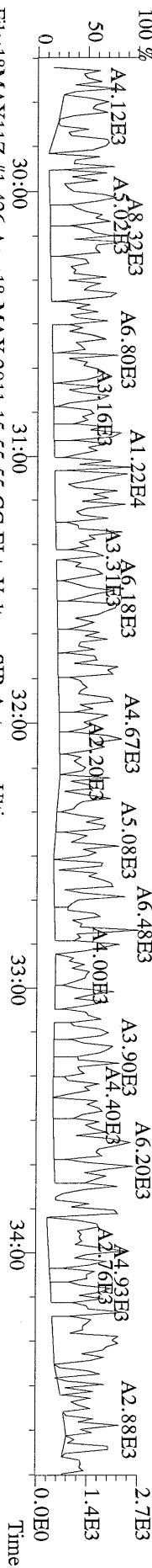
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 330.9792 S:5 Exp:PCDD
 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



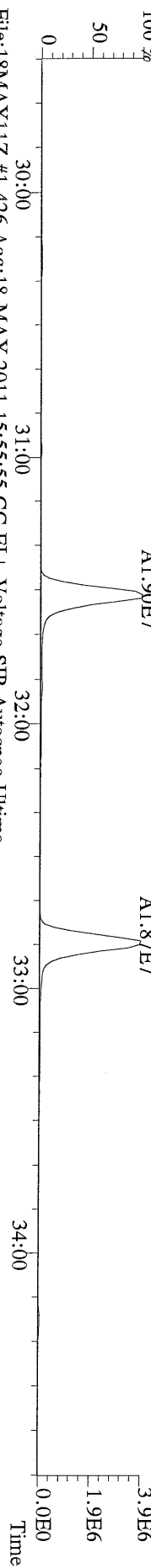
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 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



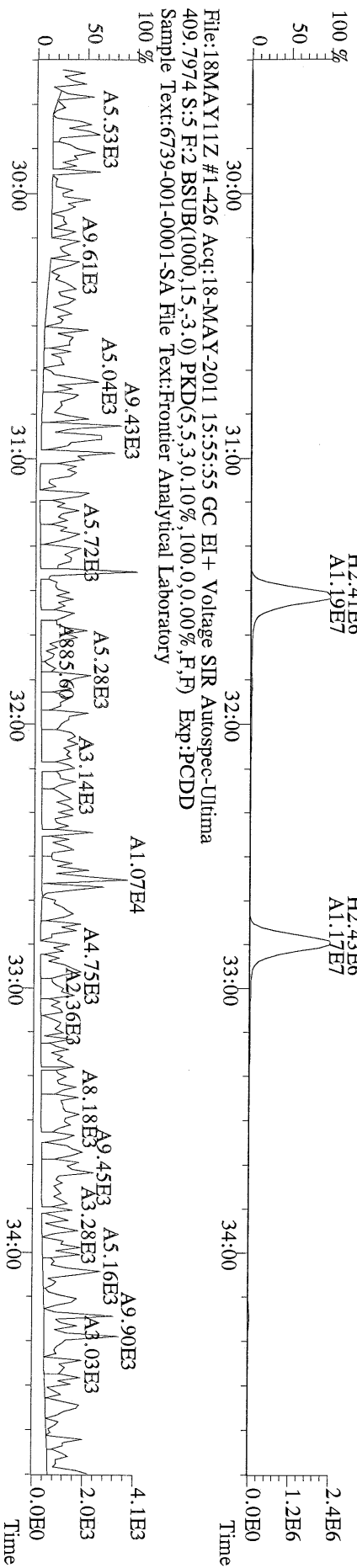
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 341.8568 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



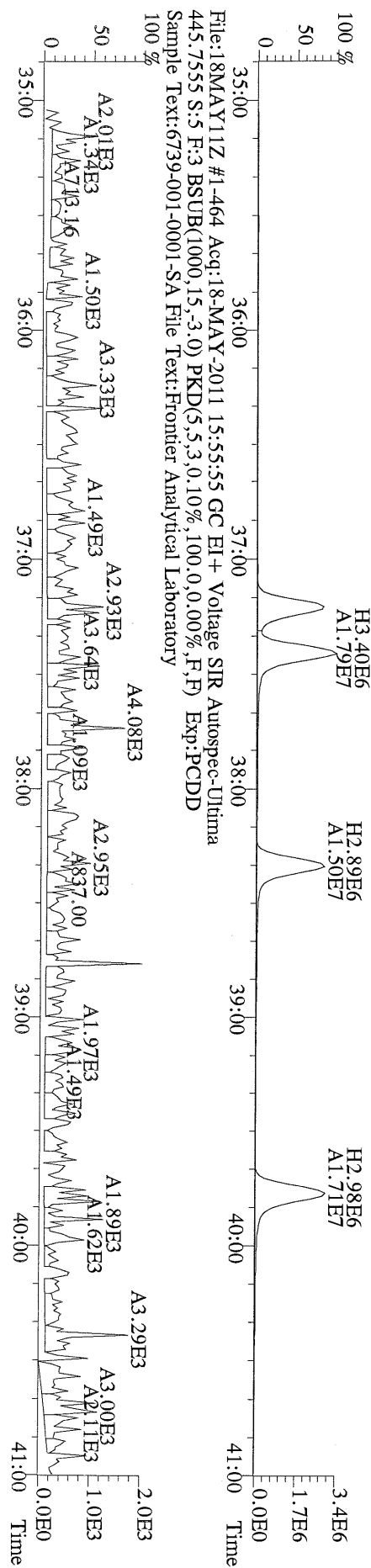
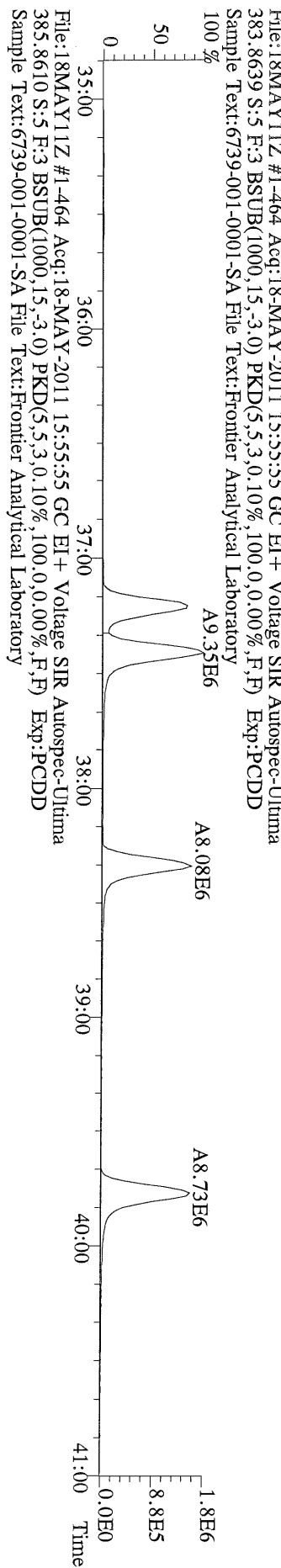
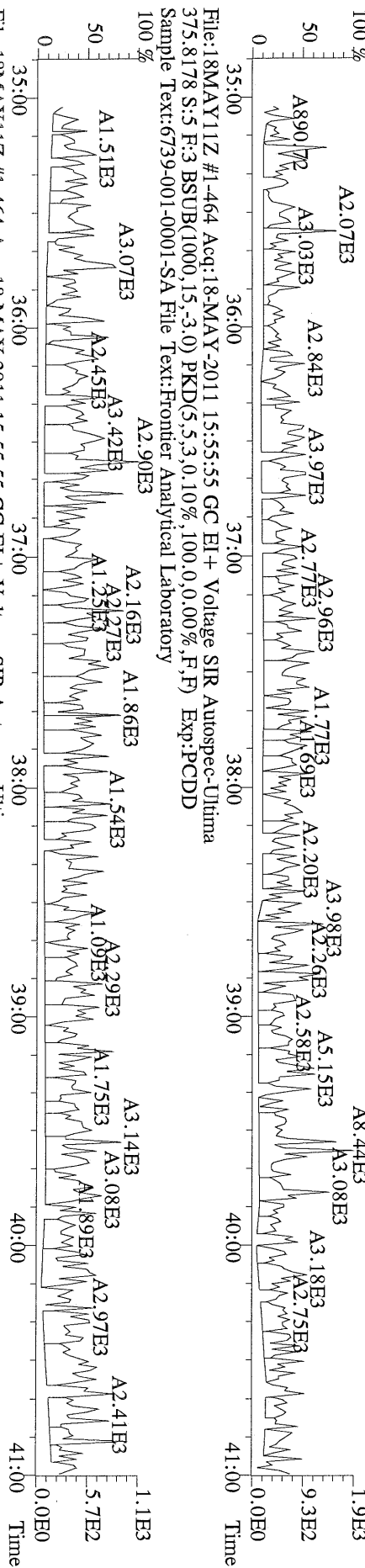
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 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



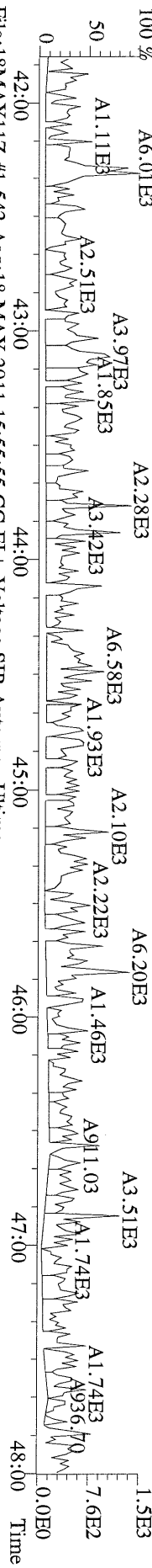
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 Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



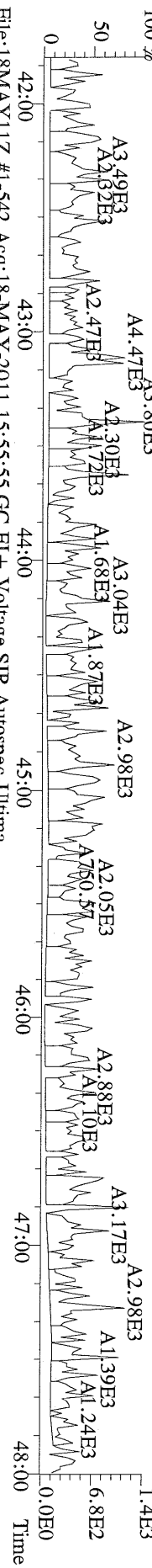
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373.8207 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



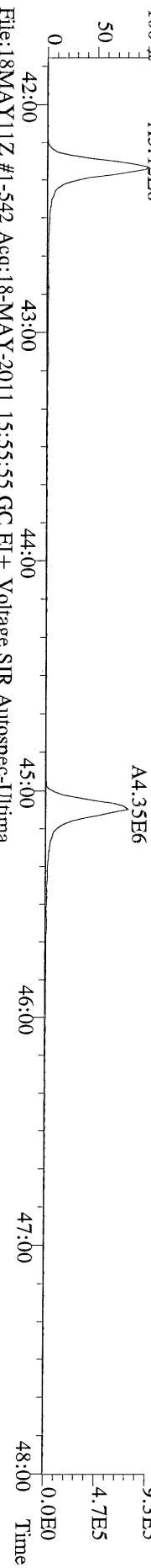
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407.7818 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



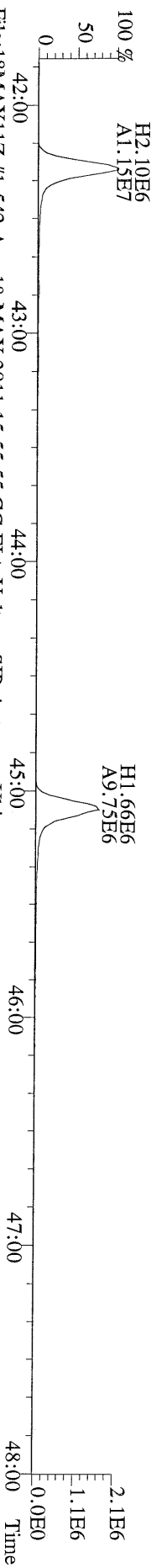
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409.7788 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



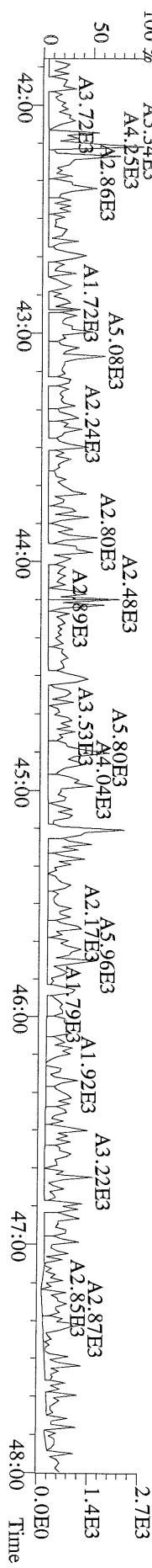
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417.8253 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



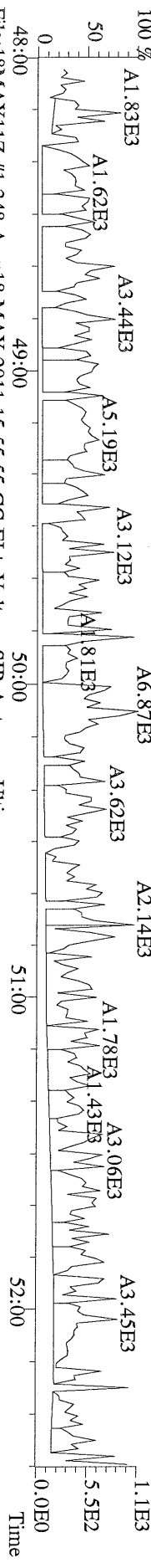
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Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



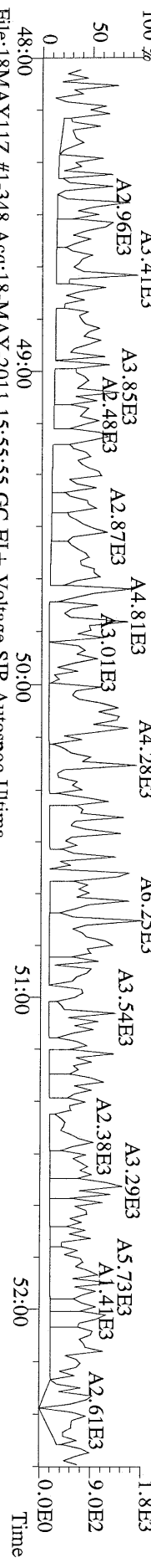
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479.7165 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



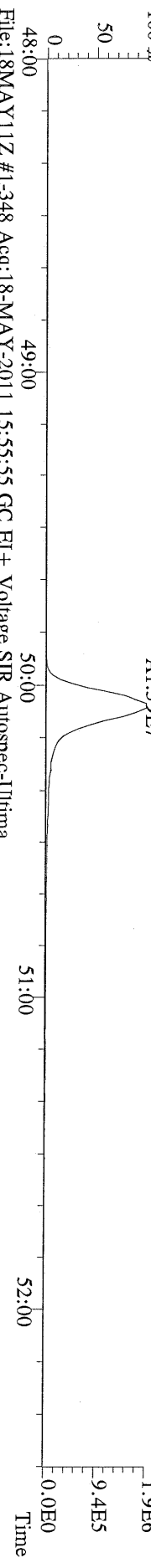
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441.7428 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 15:55:55 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



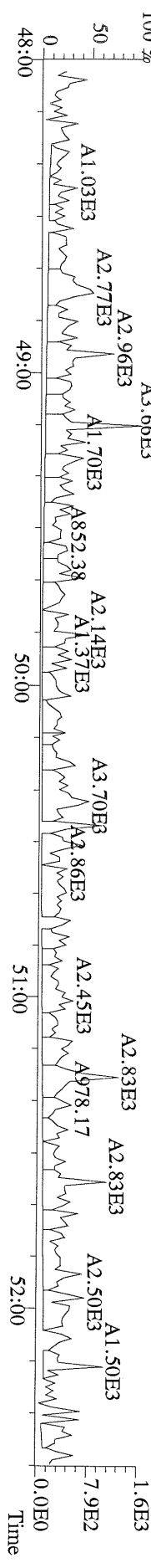
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453.7831 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



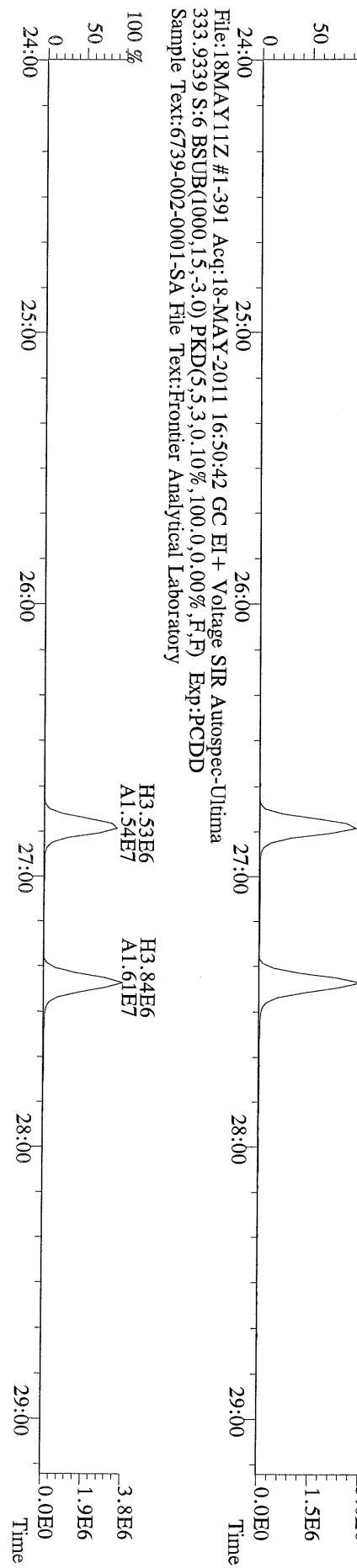
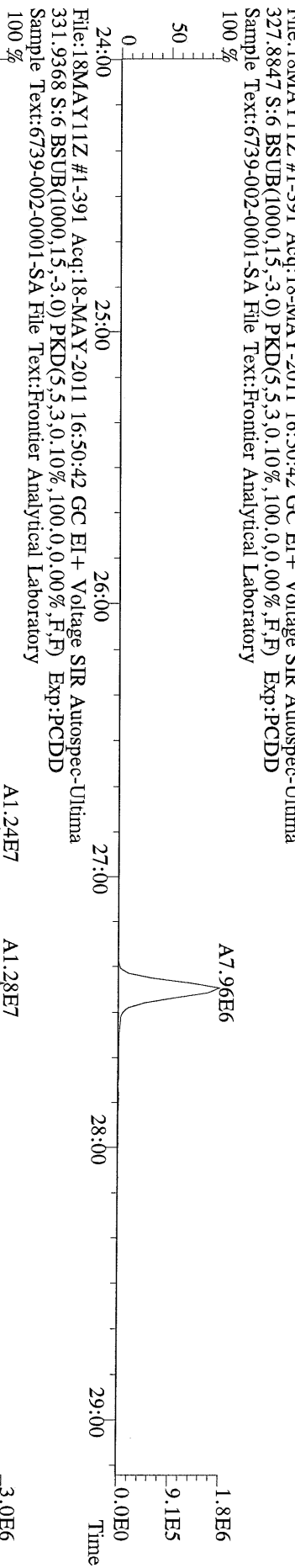
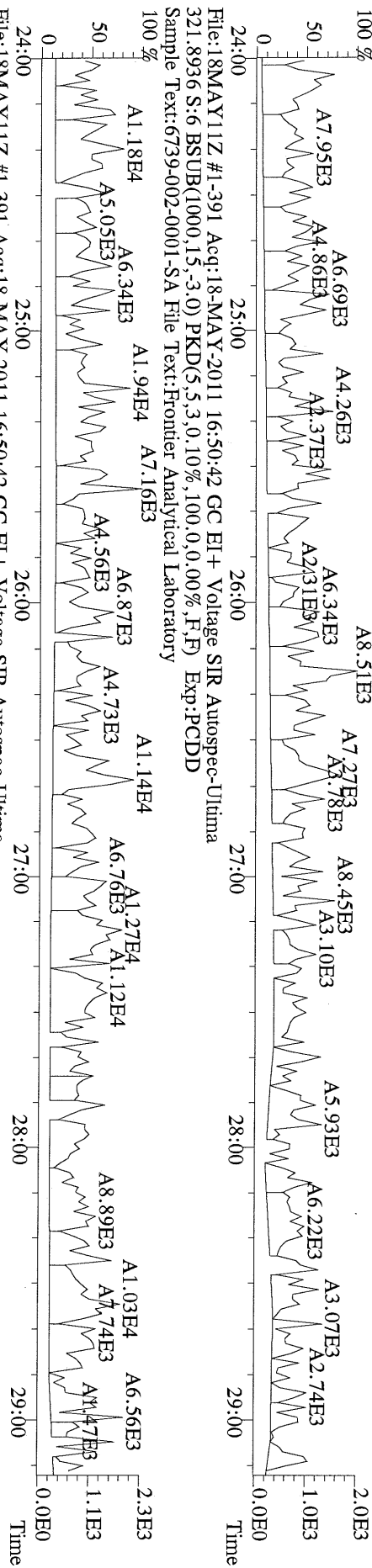
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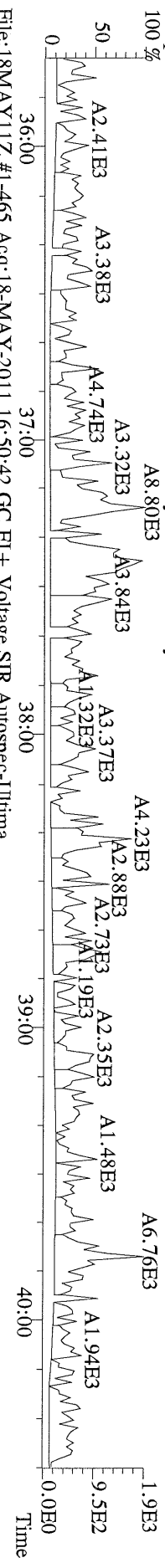
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513.6775 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-001-0001-SA File Text:Frontier Analytical Laboratory



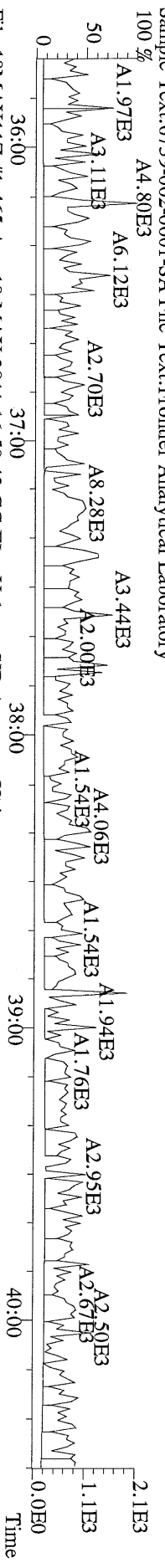
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



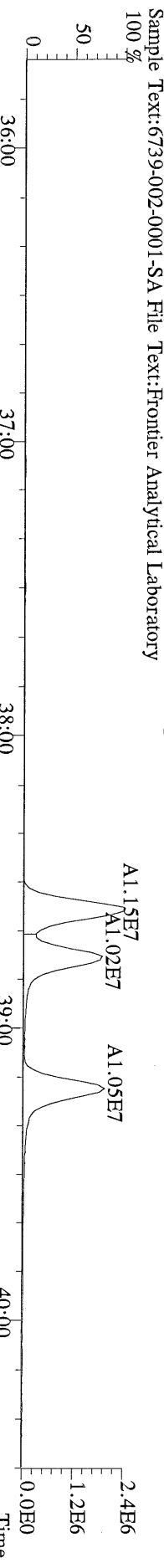
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI + Voltage SIR Autospec-Ultima
 389.8156 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



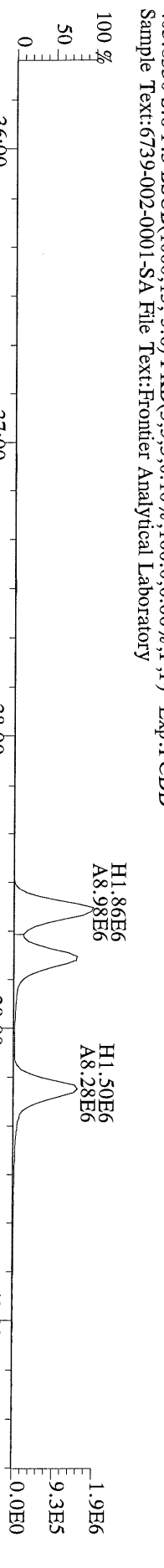
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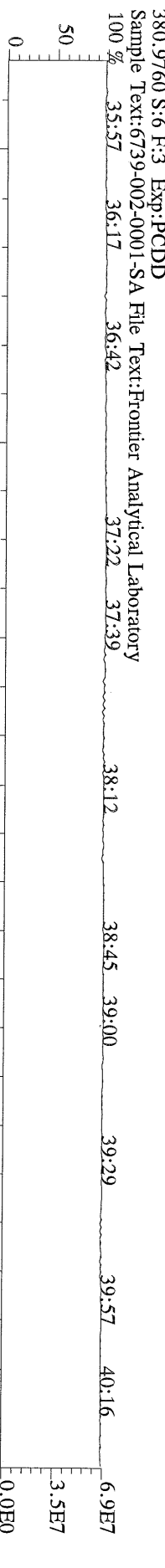
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 401.8559 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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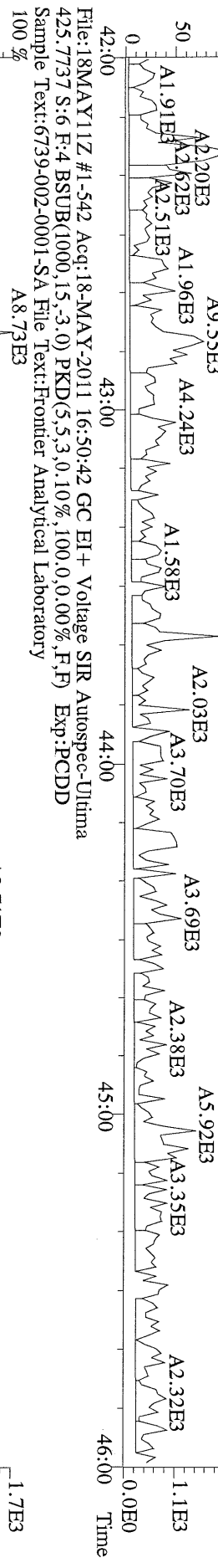
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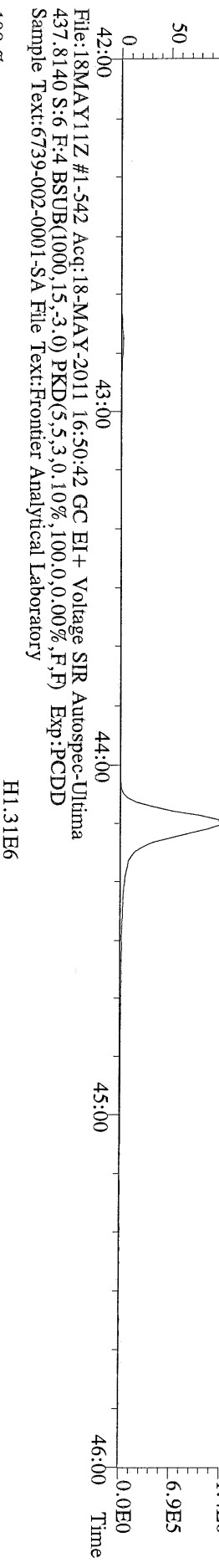
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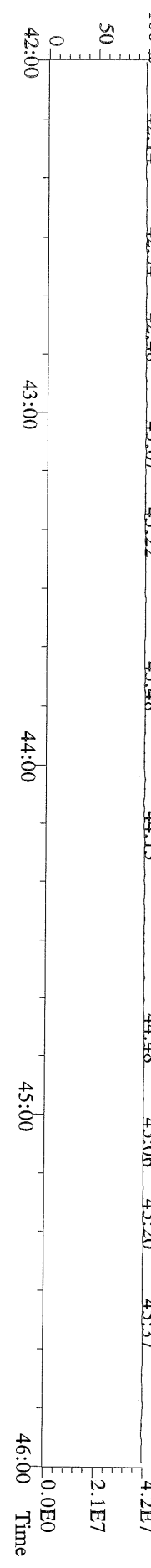
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423.7767 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



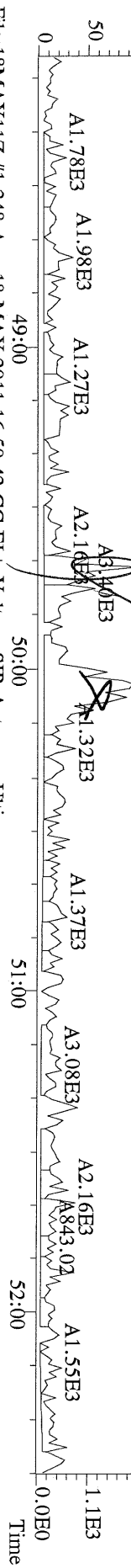
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435.8169 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



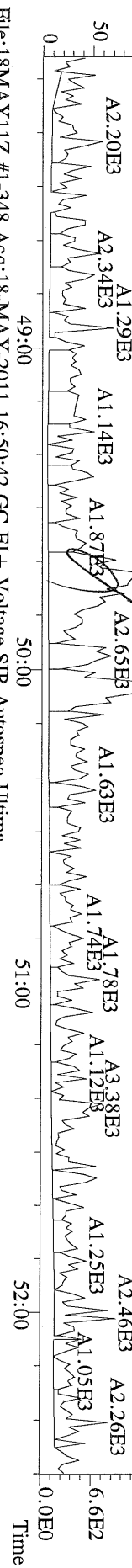
File:18MAY11Z #1-542 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
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Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



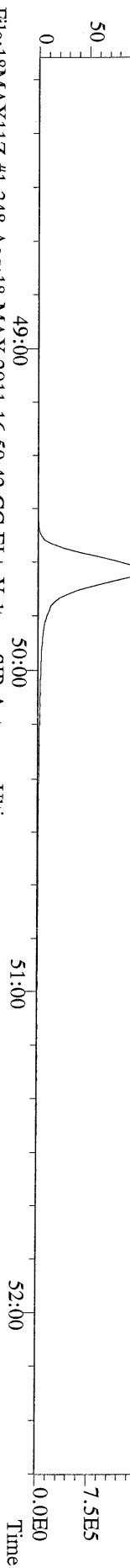
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 457.7377 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



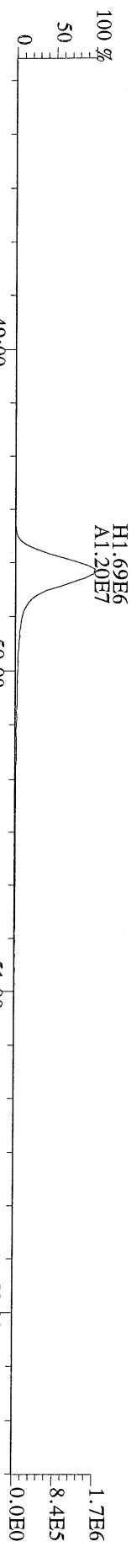
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 459.7348 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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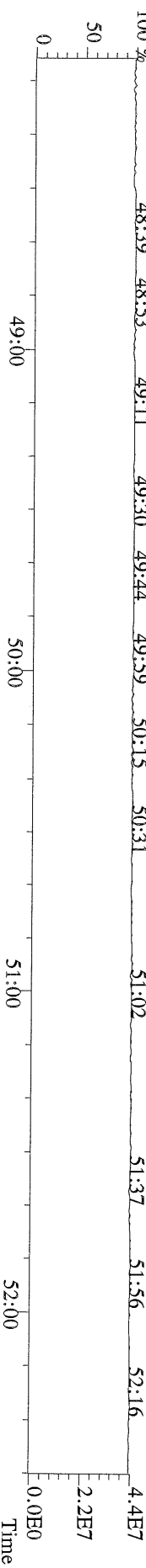
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 469.7780 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



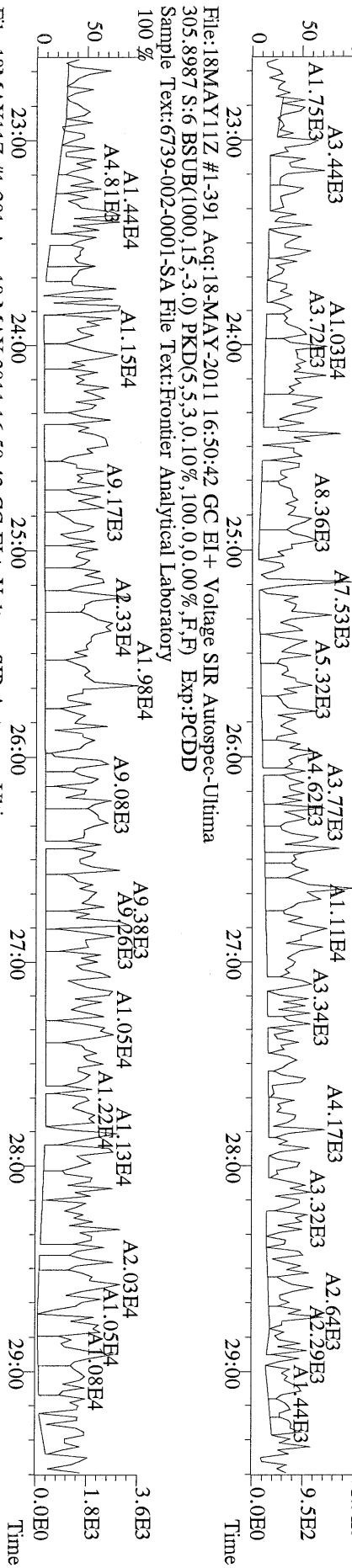
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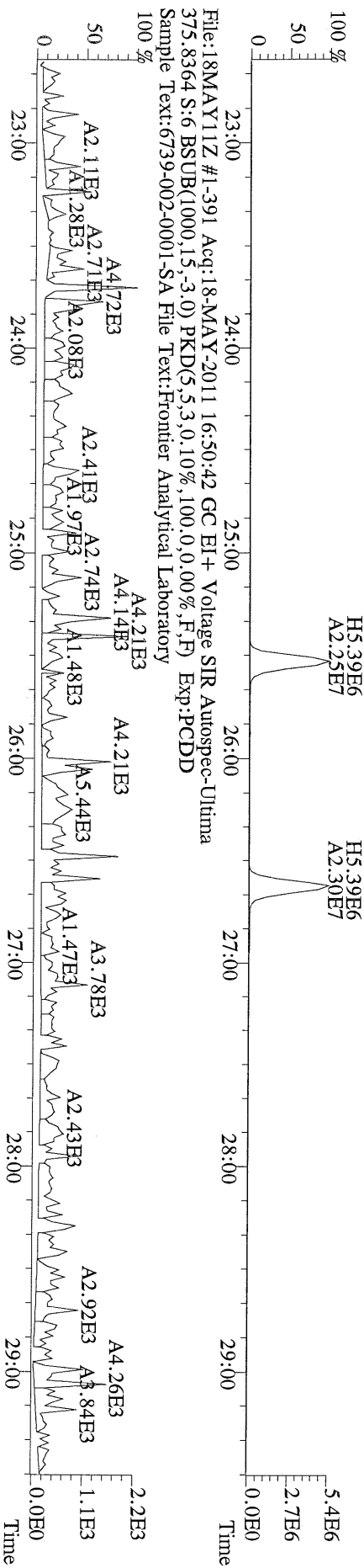
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 454.9728 S:6 F:5 Exp:PCDD
 Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



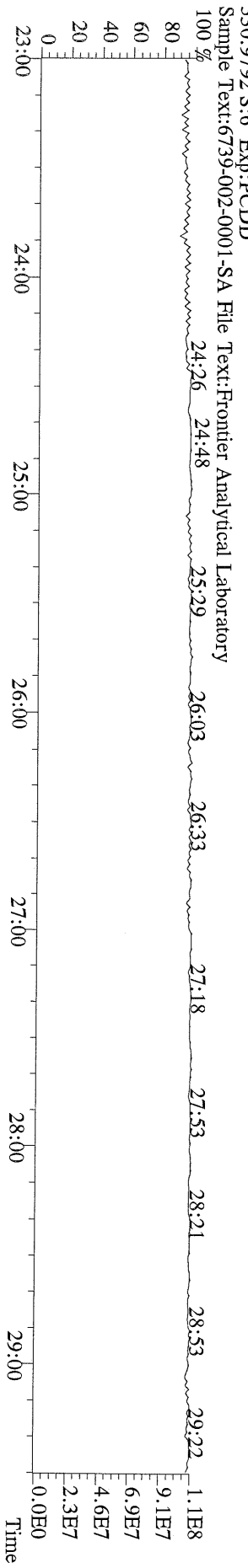
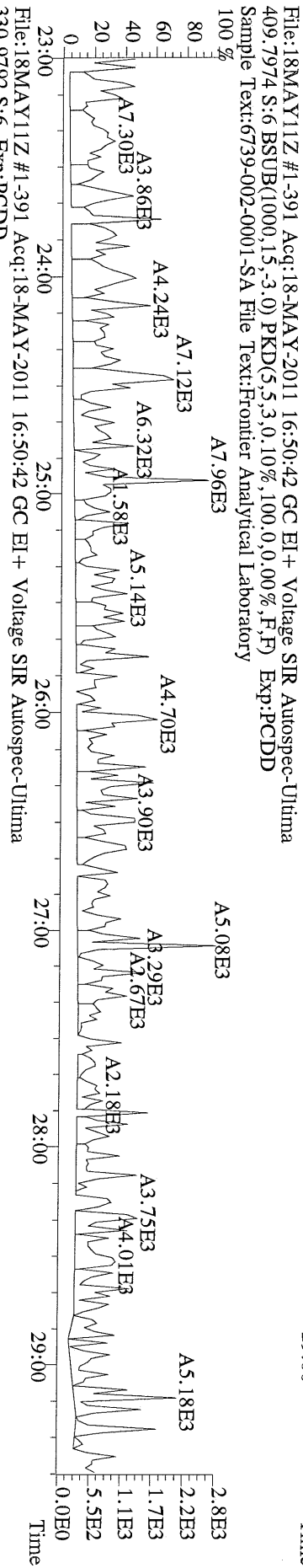
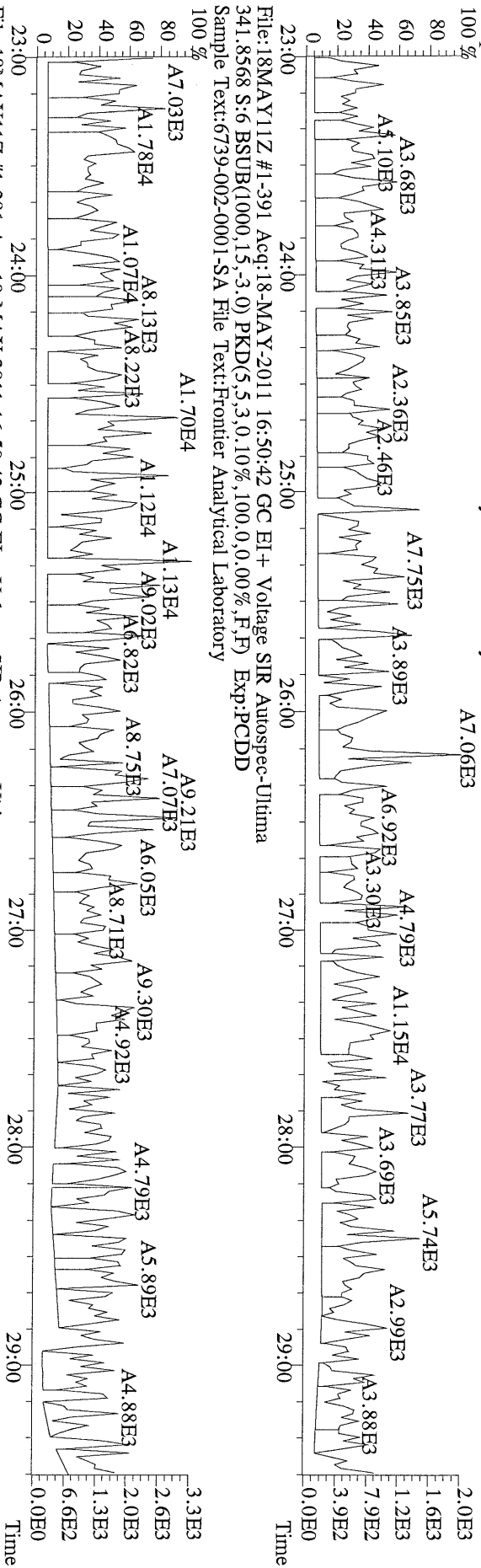
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 303.9016 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



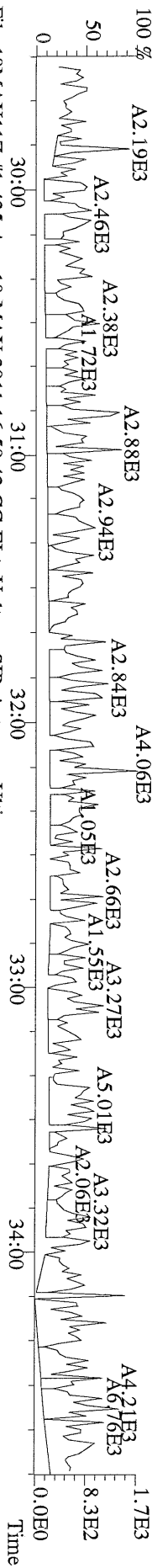
File:18MAY11Z #1-391 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0,100,0,0,0.00%,F,F) Exp:PCDD
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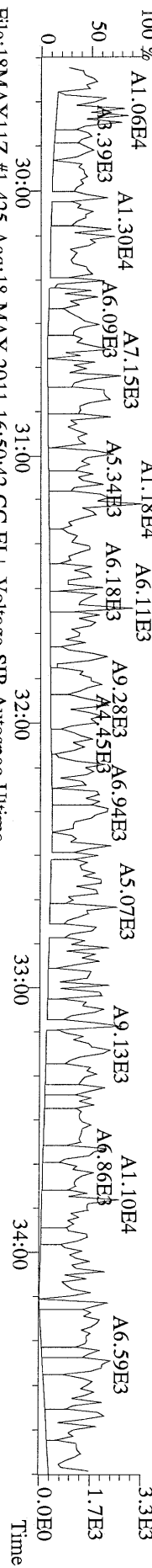
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339.8597 S:6 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



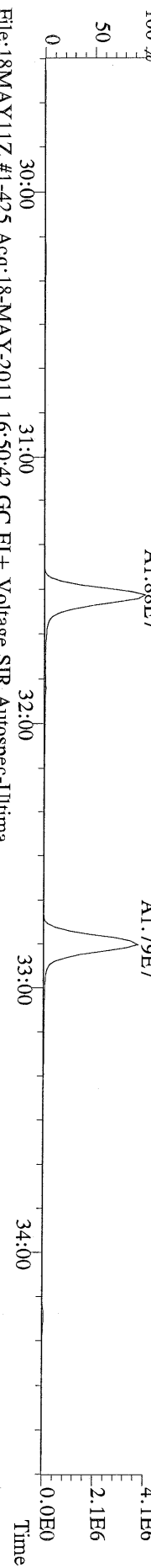
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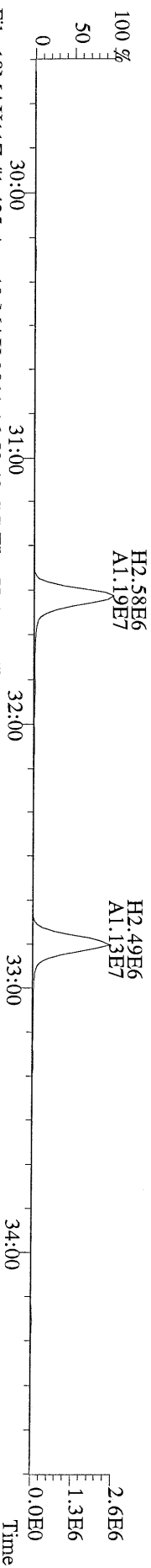
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 341.8568 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



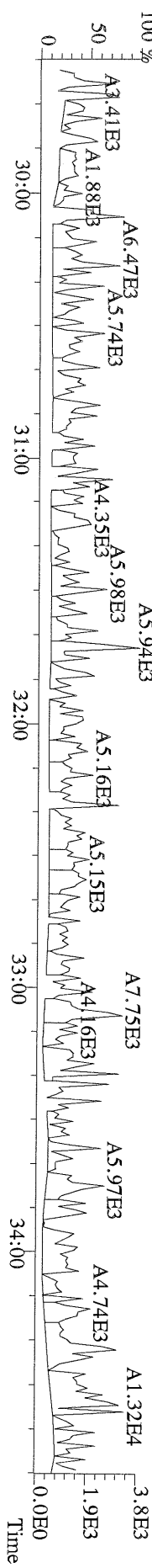
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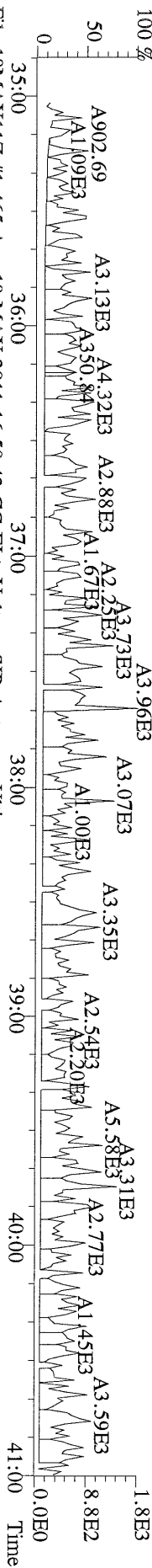
File:18MAY11Z #1-425 Acq:18-MAY-2011 16:50:42 GC EI + Voltage SIR Autospec-Ultima
 409.7974 S:6 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



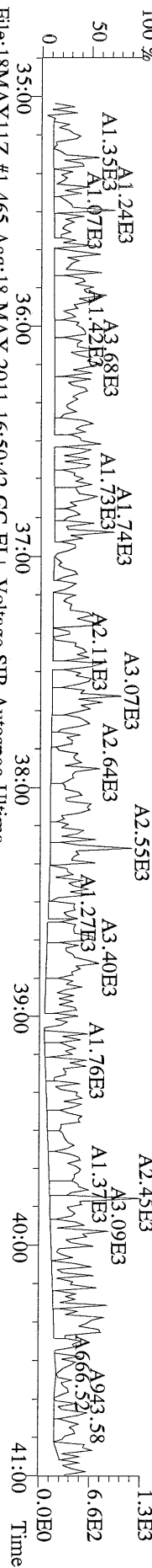
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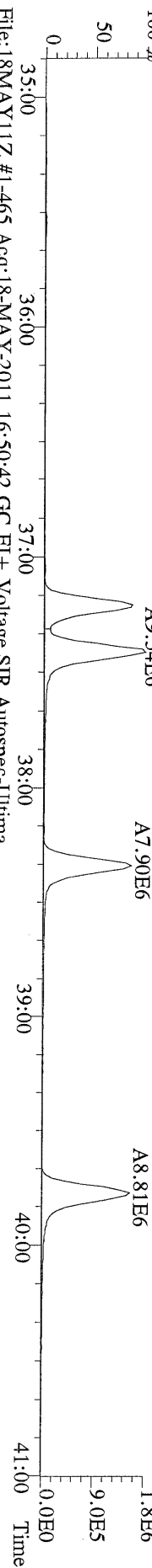
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373.8207 S:6 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



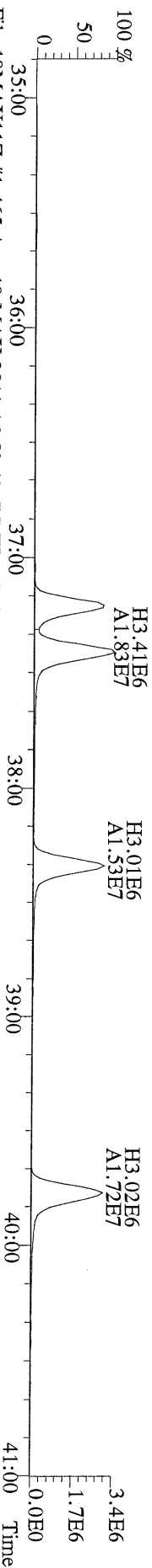
File:18MAY11Z #1-465 Acq:18-MAY-2011 16:50:42 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:6 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



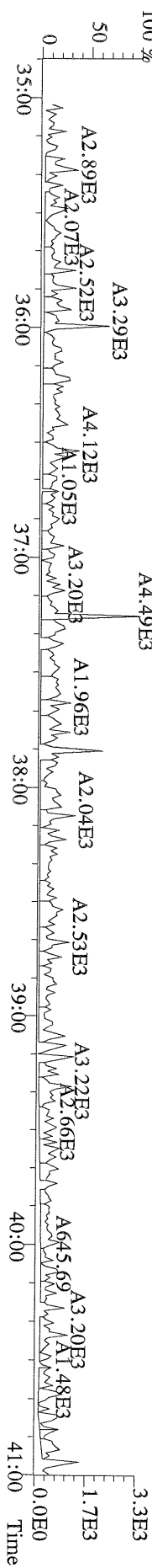
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383.8639 S:6 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



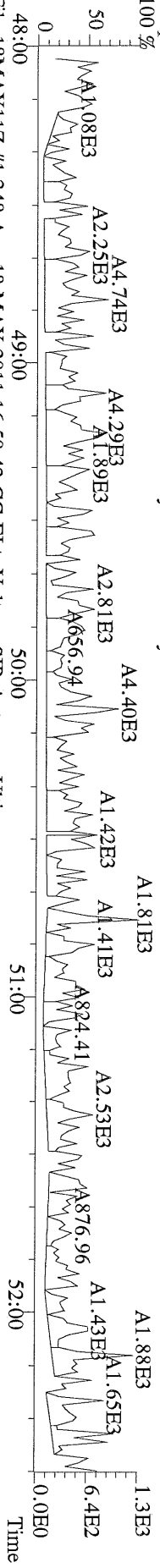
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385.8610 S:6 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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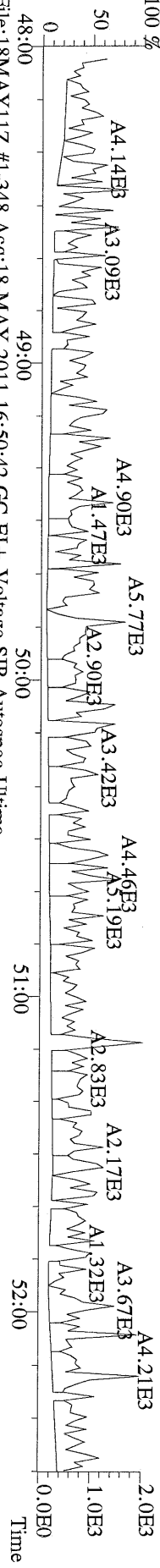
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445.7555 S:6 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



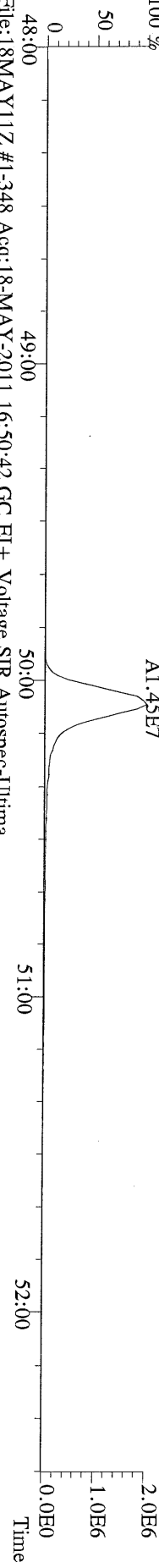
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441.7428 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



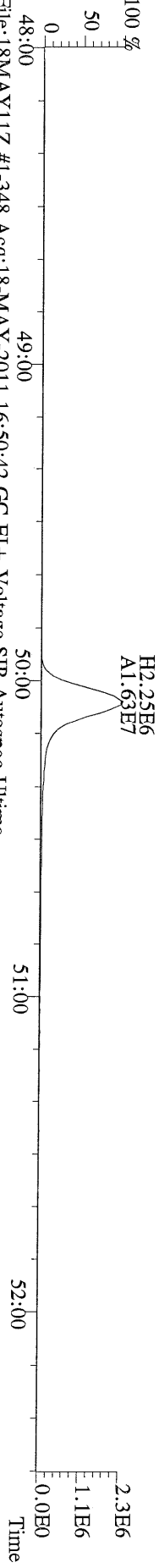
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443.7398 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



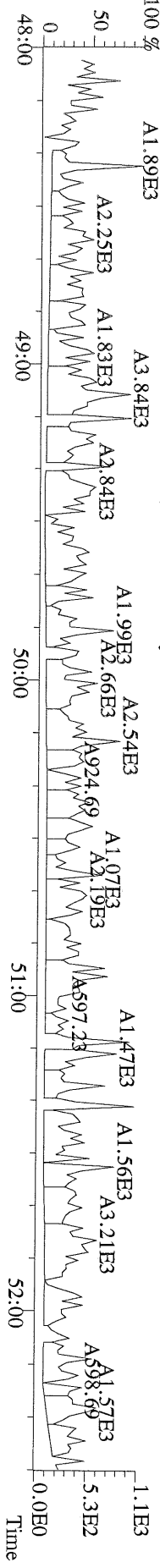
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Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



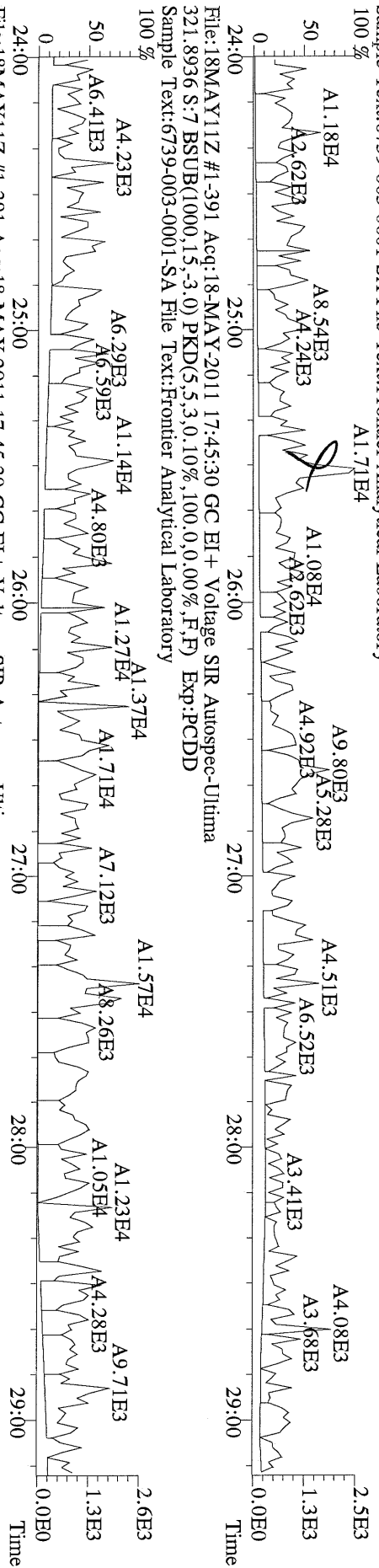
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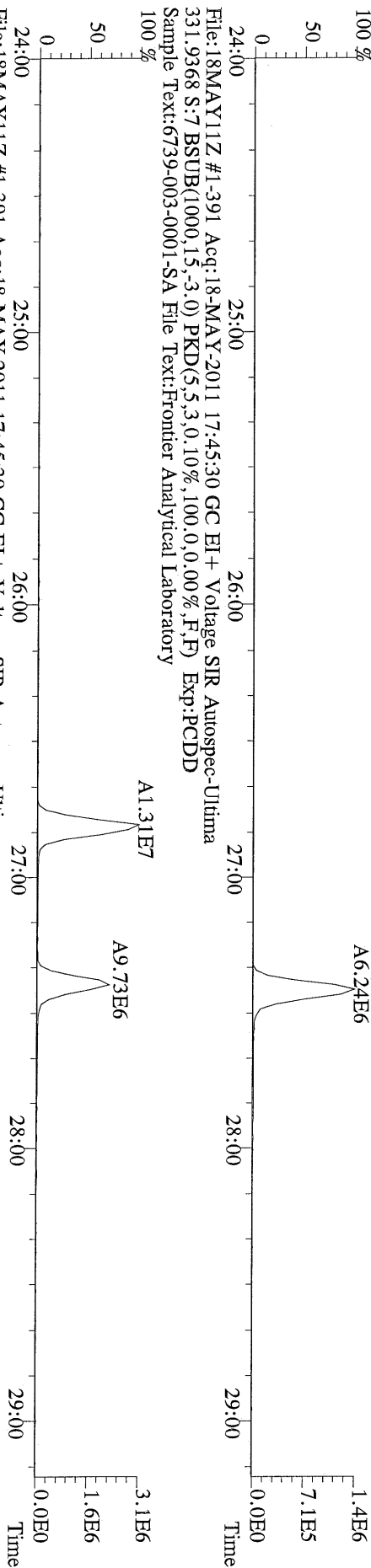
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513.6775 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-002-0001-SA File Text:Frontier Analytical Laboratory



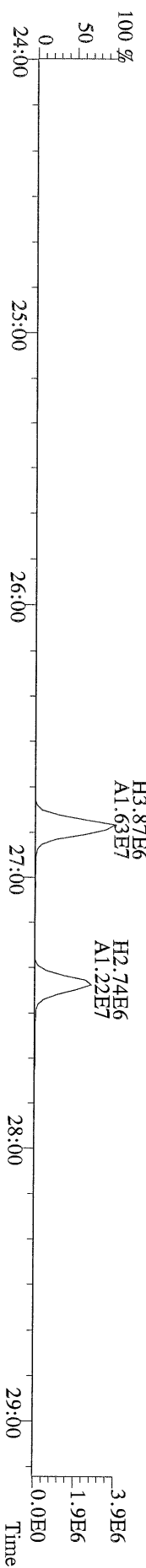
File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



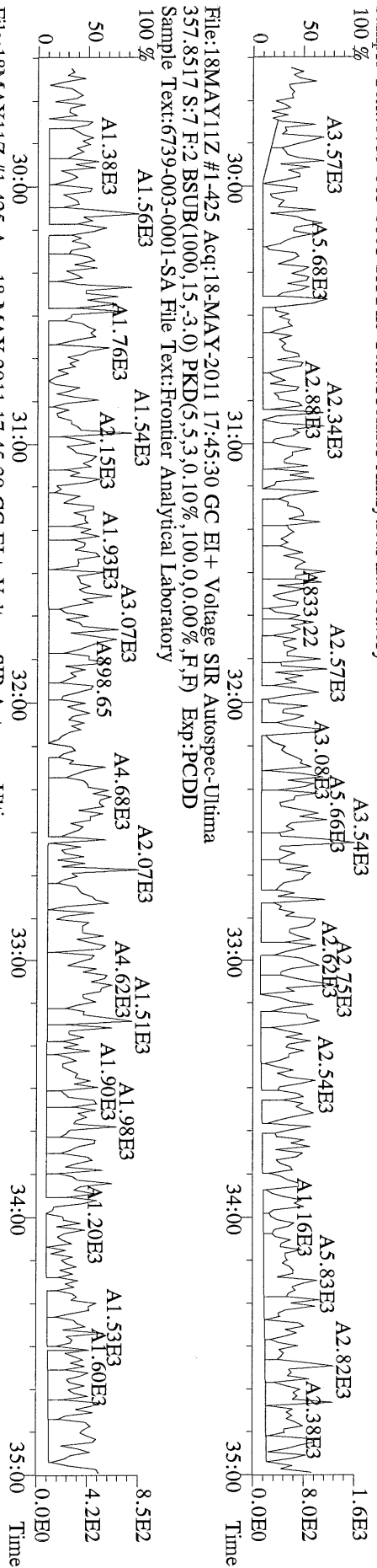
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327.8847 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



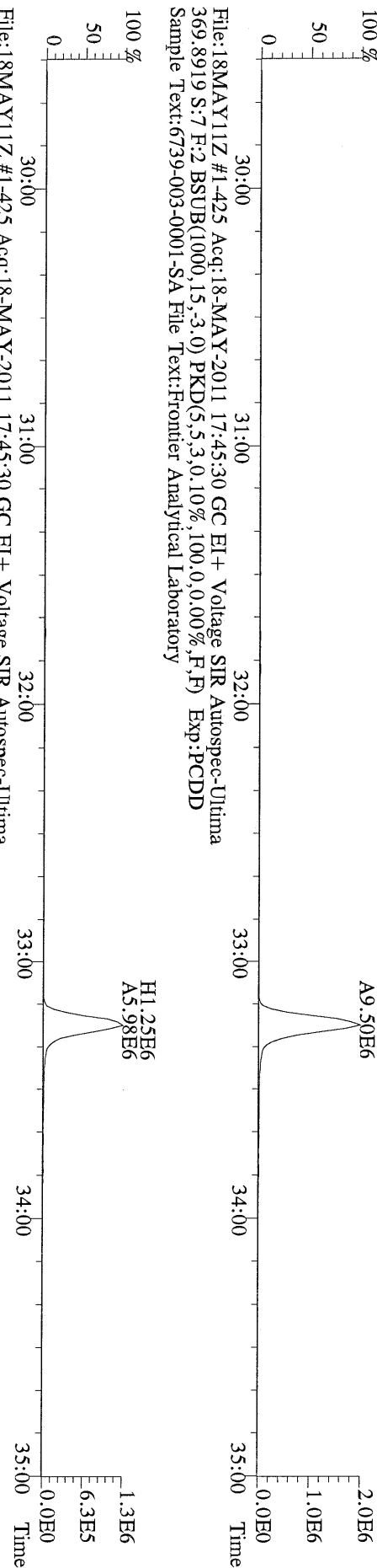
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333.9339 S:7 BSUB(1000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



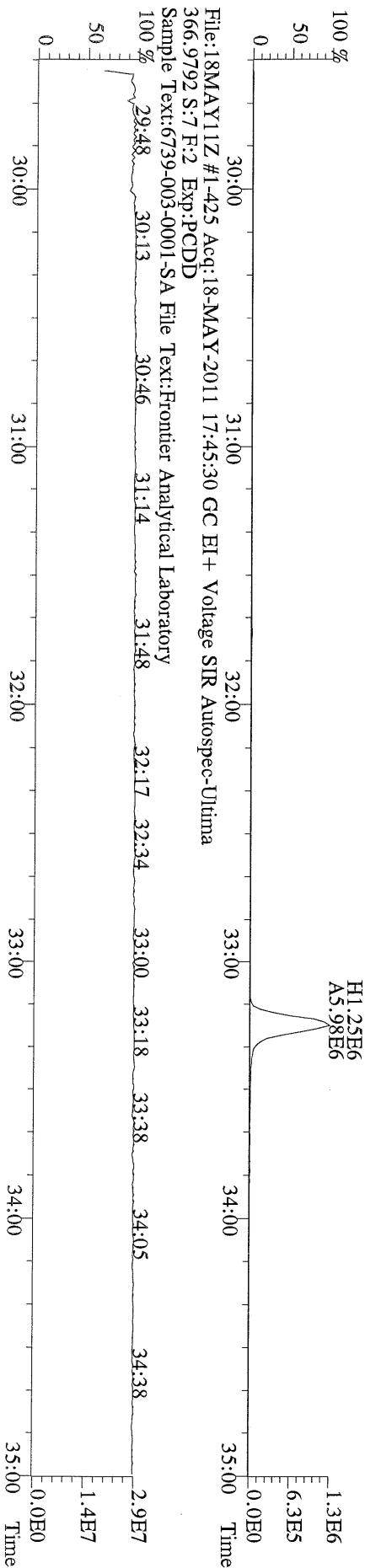
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355.8546 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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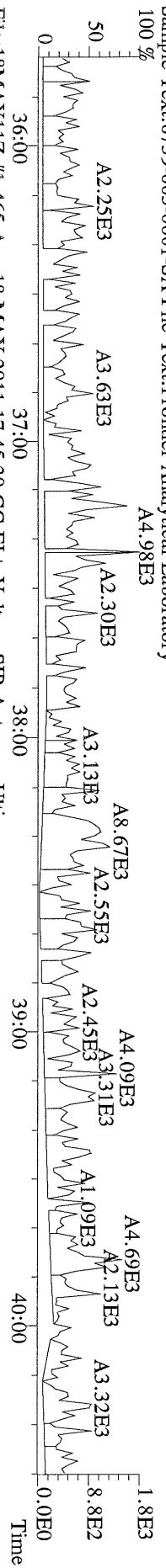
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367.8949 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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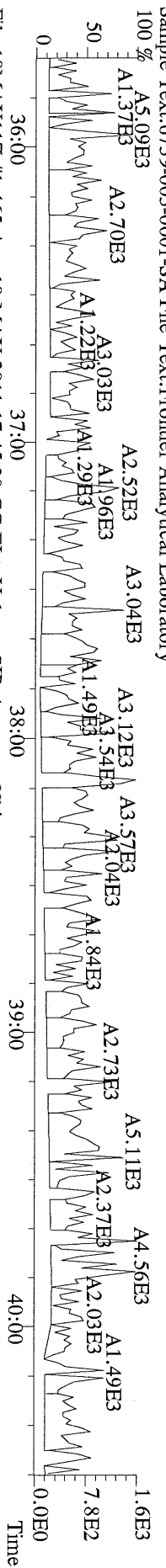
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369.8919 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



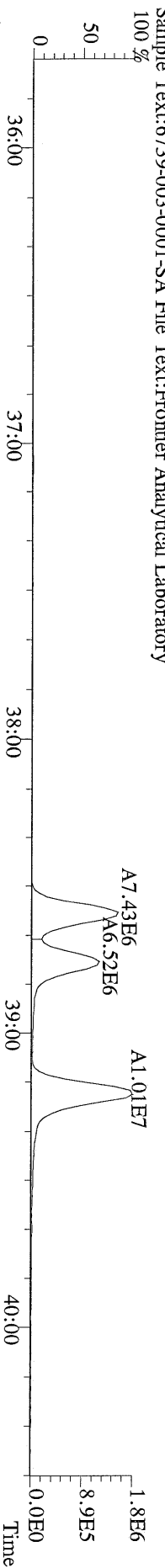
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 389.8156 S:7 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



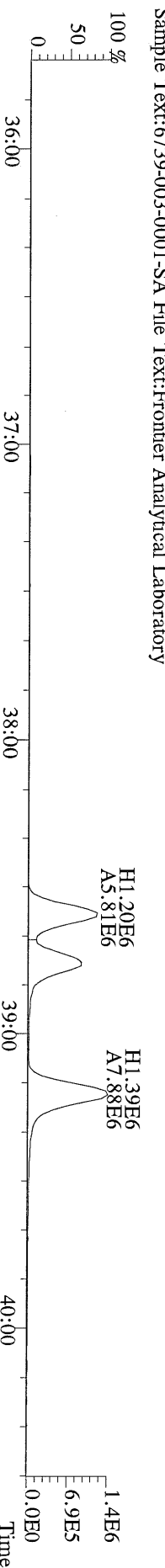
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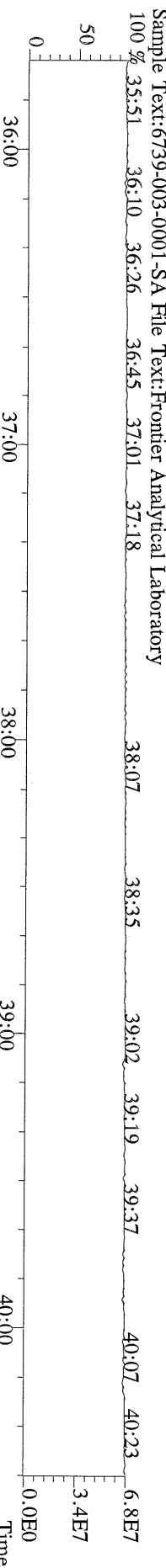
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 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



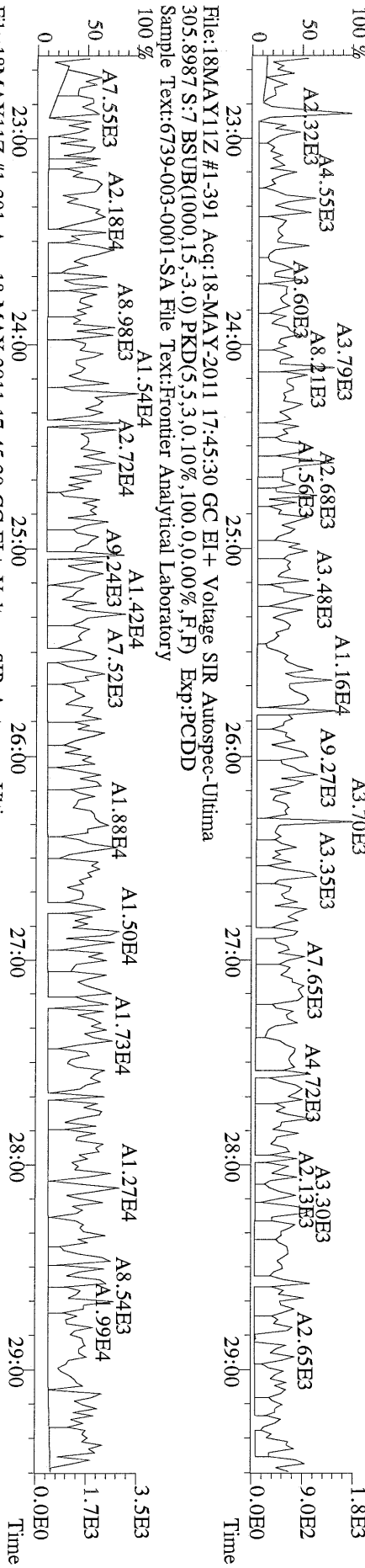
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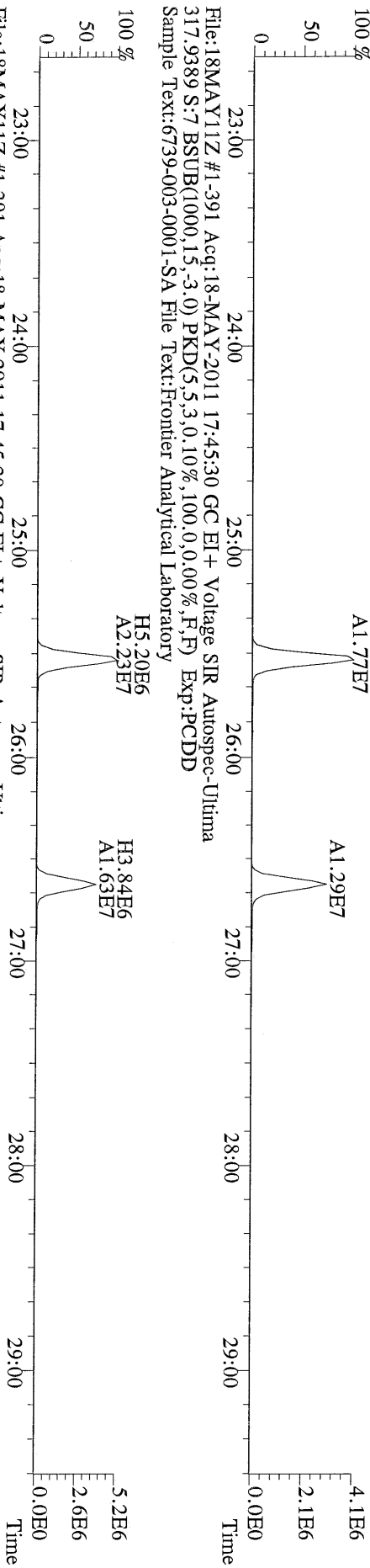
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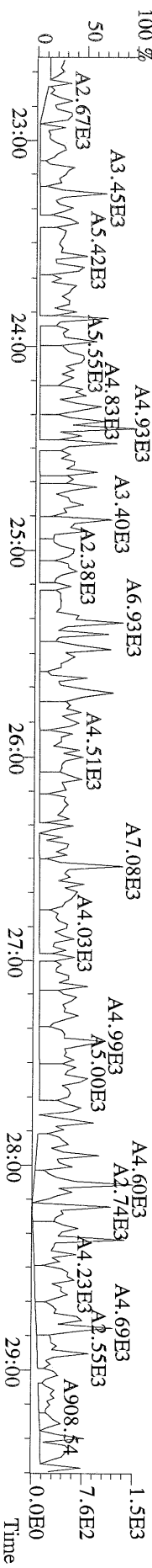
File:18MAY11Z #1-391 Acq:18-MAY-2011 17:45:30 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:7 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



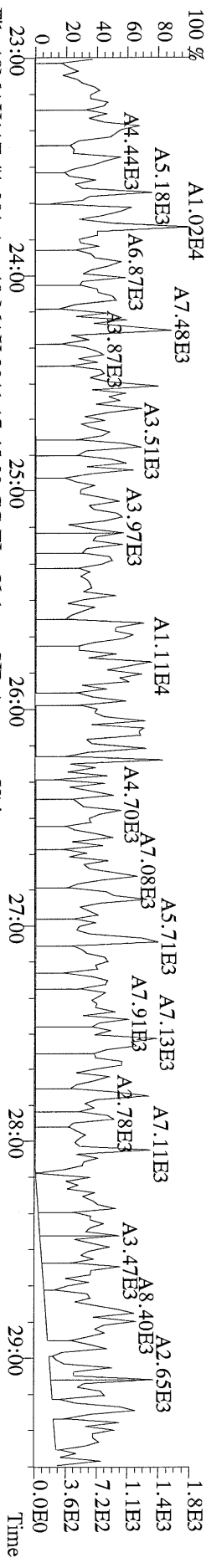
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315.9419 S:7 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



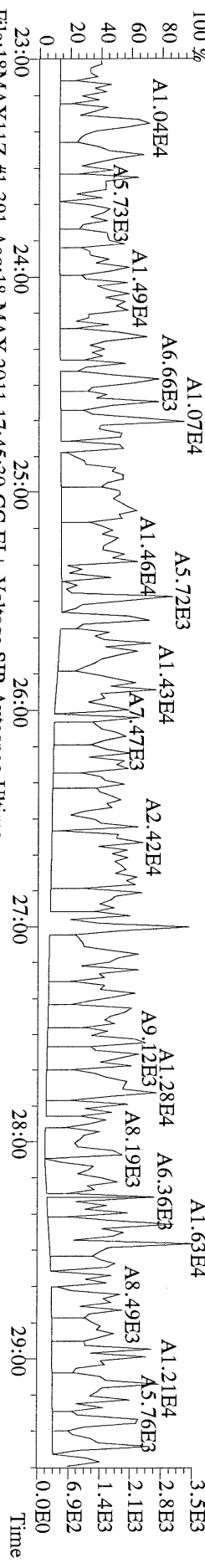
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375.8364 S:7 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



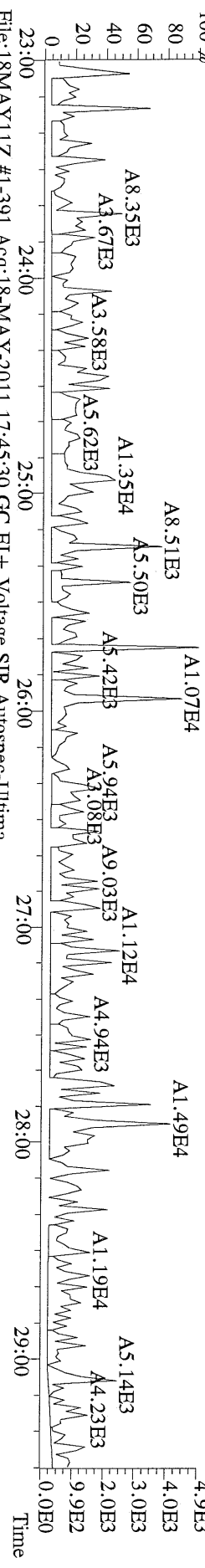
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 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



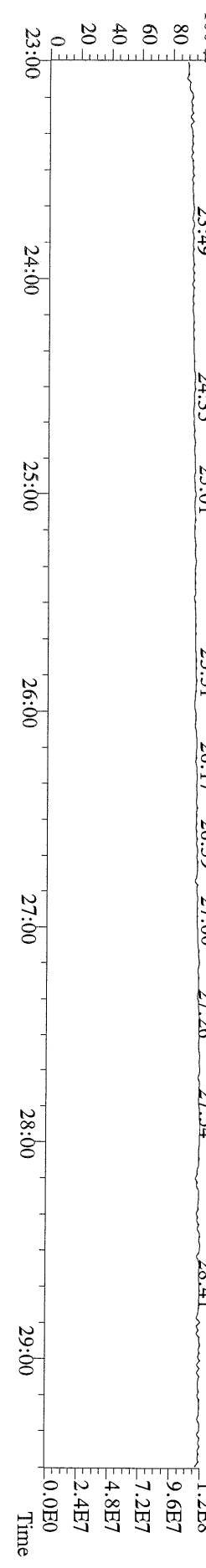
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 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



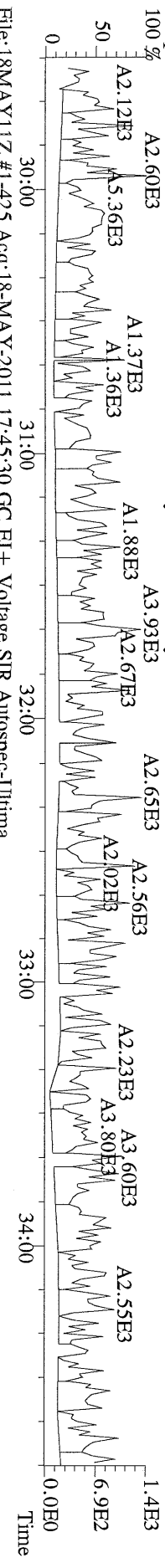
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 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



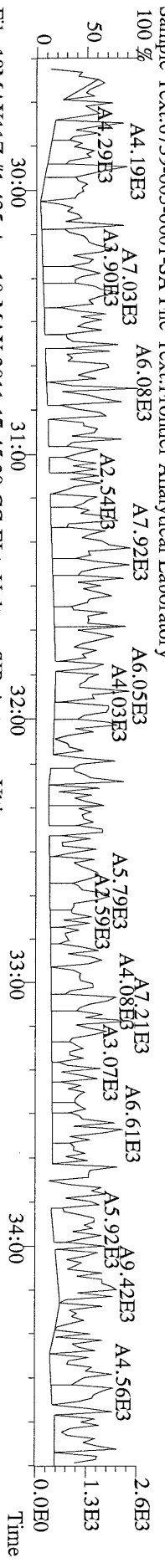
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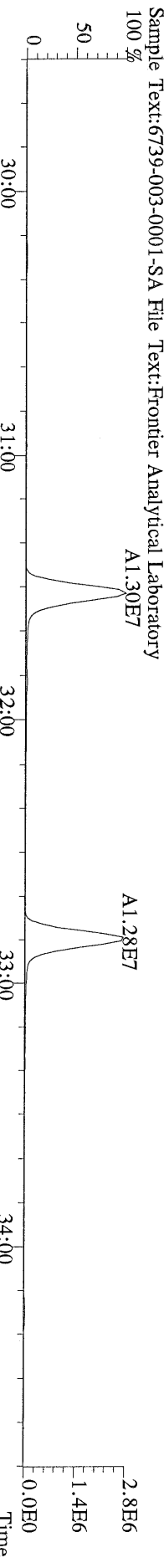
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339.8597 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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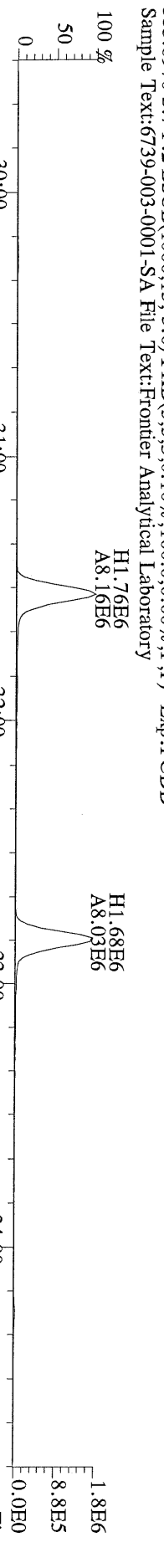
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341.8568 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



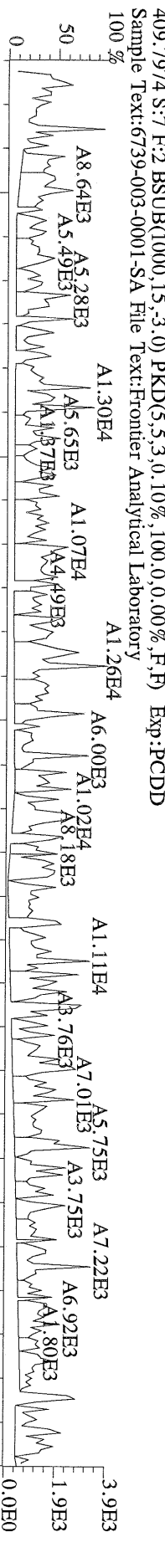
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351.9000 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



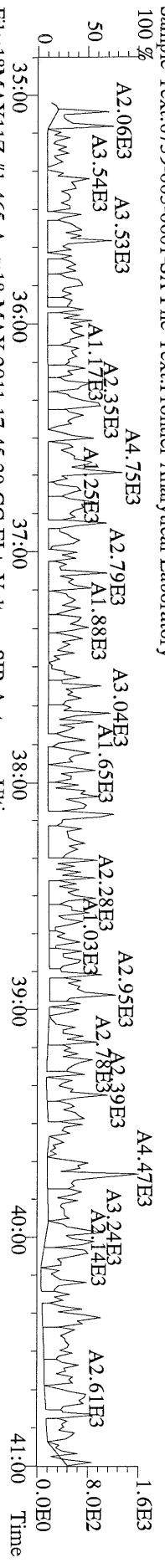
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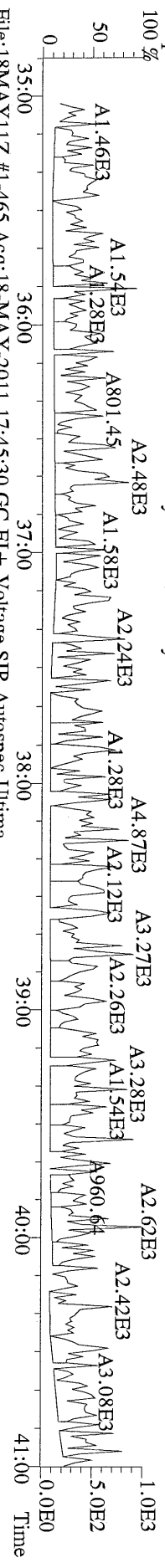
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409.7974 S:7 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



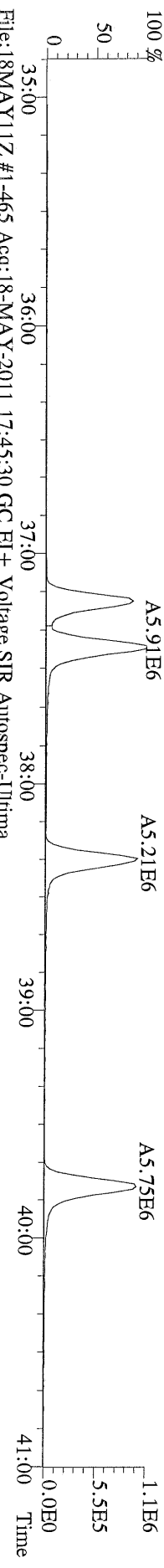
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 373.8207 S:7 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



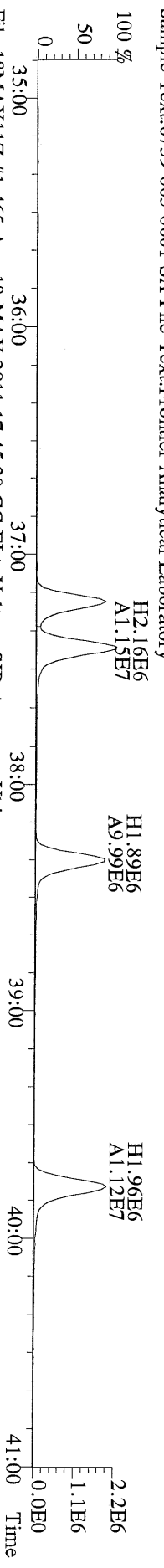
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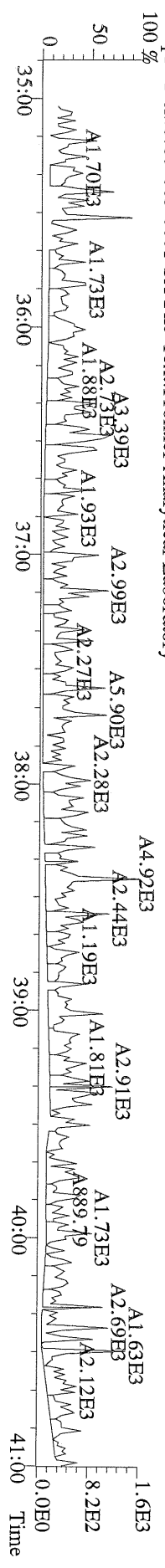
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 Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



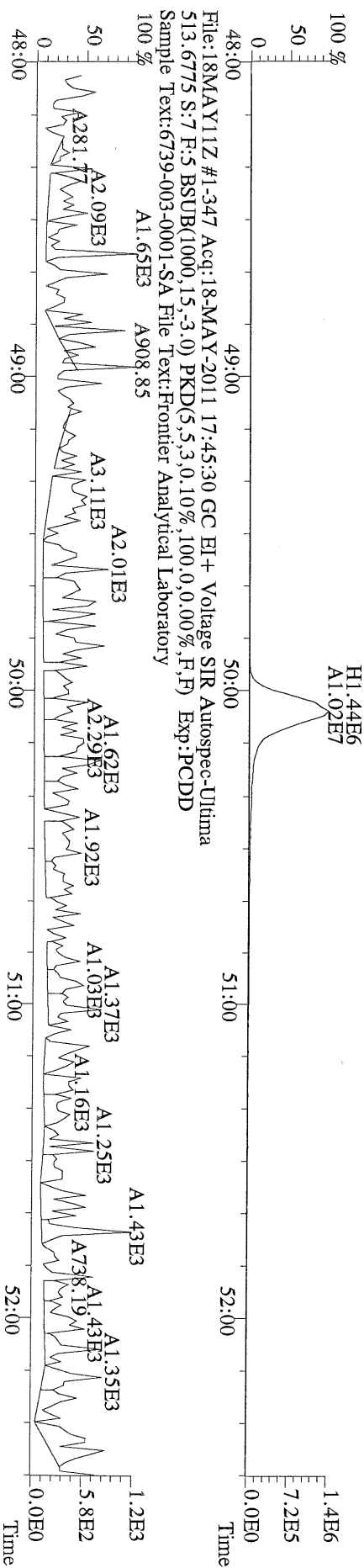
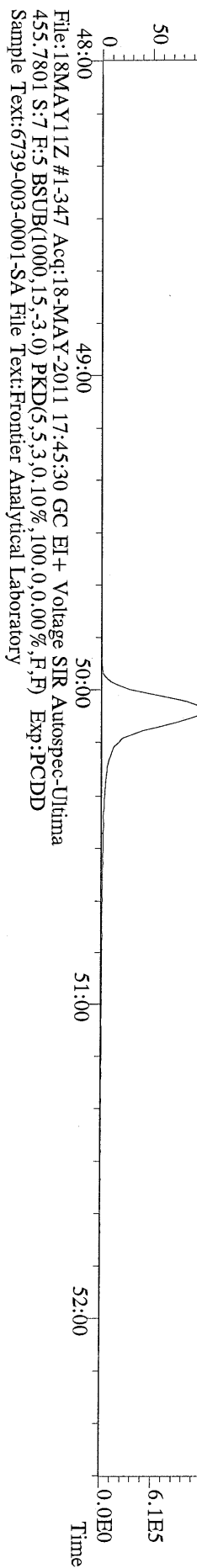
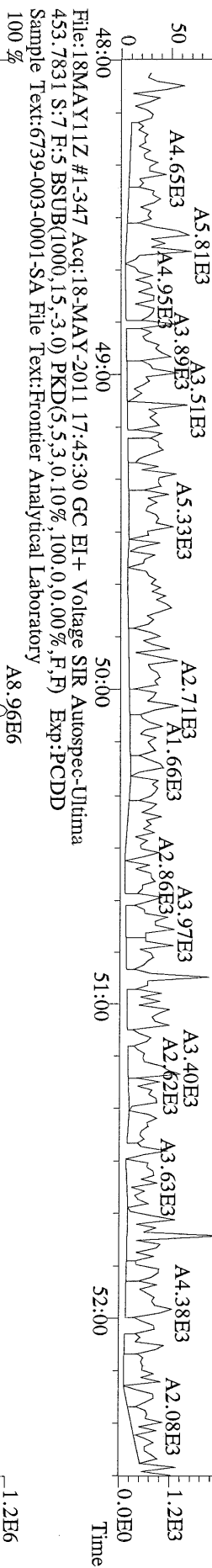
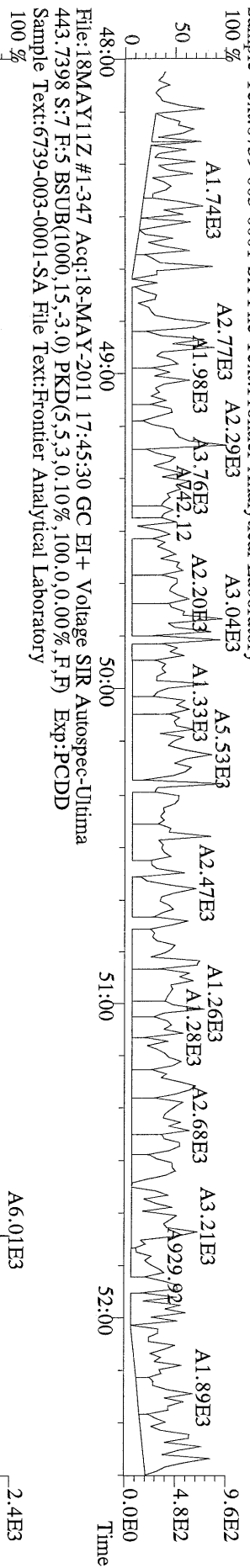
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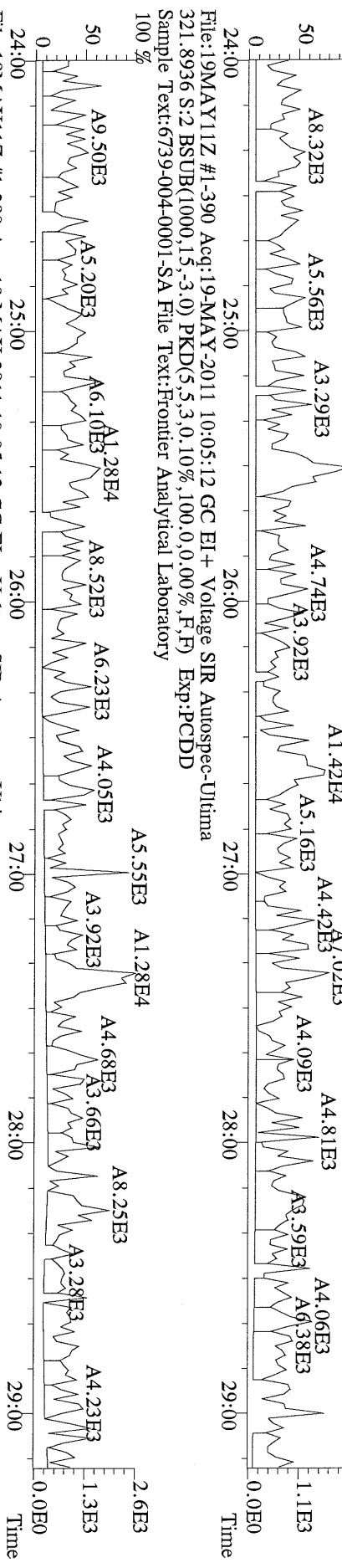
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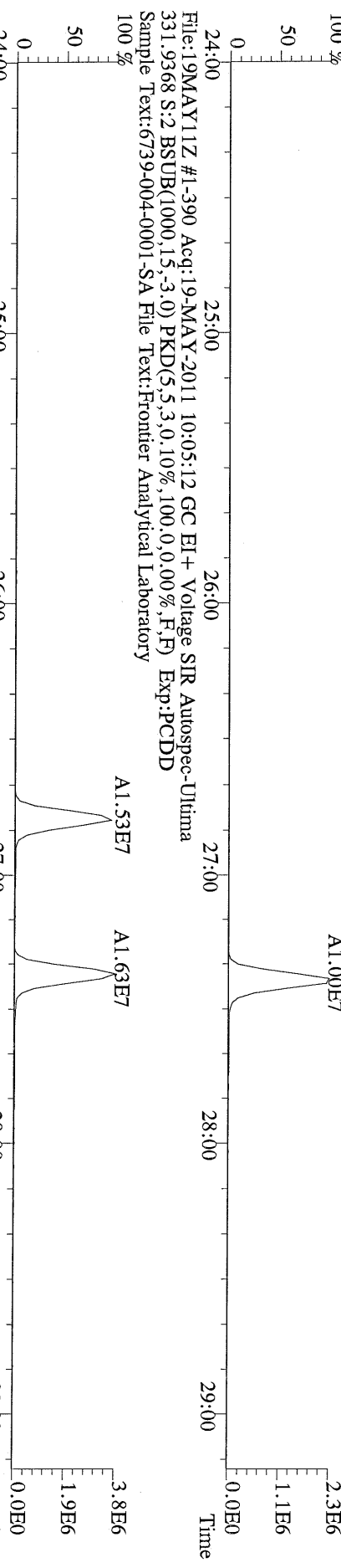
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441.7428 S:7 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-003-0001-SA File Text:Frontier Analytical Laboratory



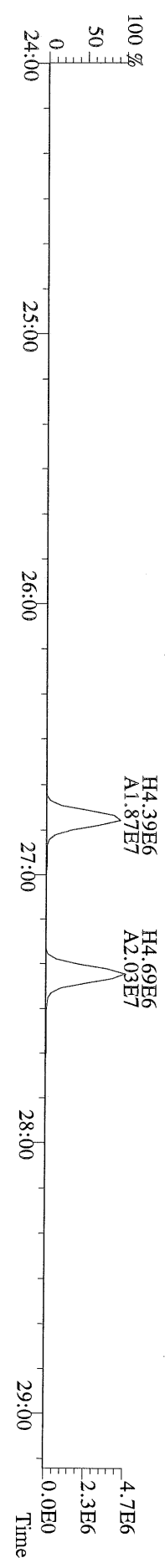
File:19MAY11Z #1-390 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 319.8965 S:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



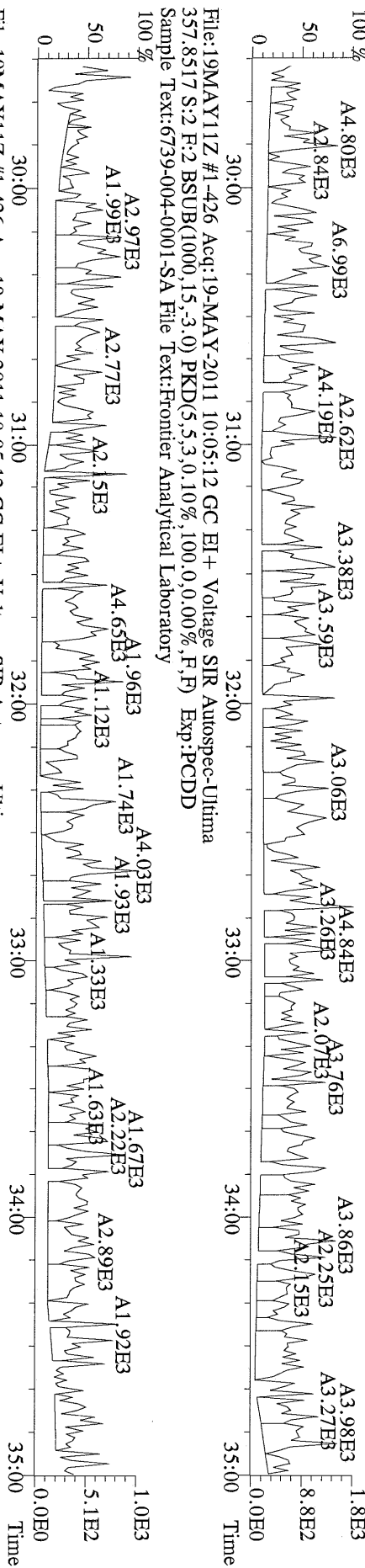
File:19MAY11Z #1-390 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 327.8847 S:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



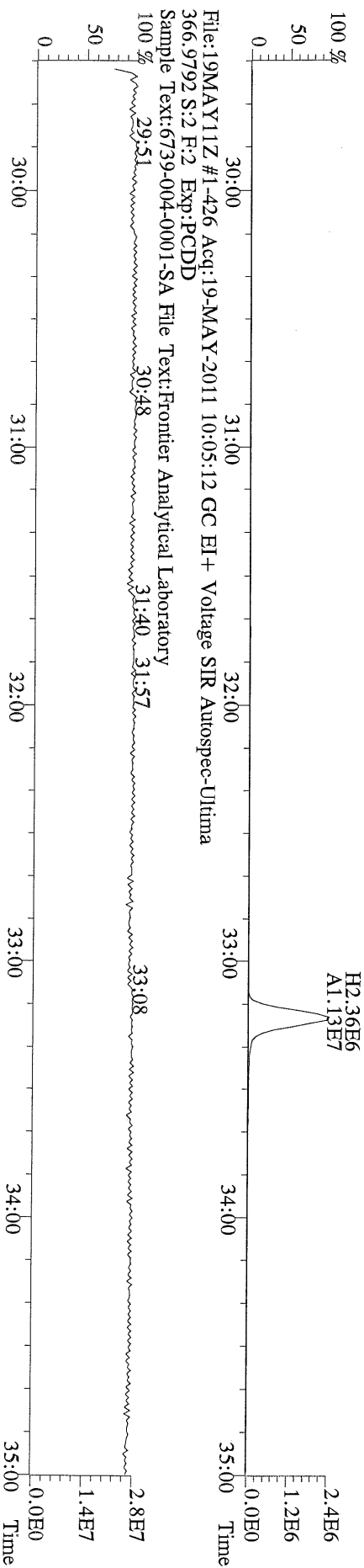
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 333.9339 S:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-426 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory

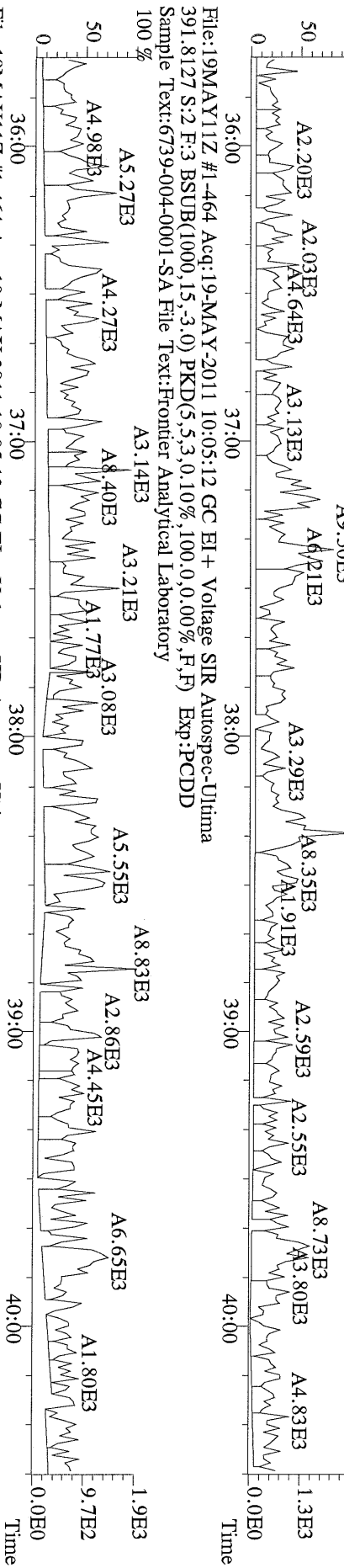


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367.8949 S:2 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory

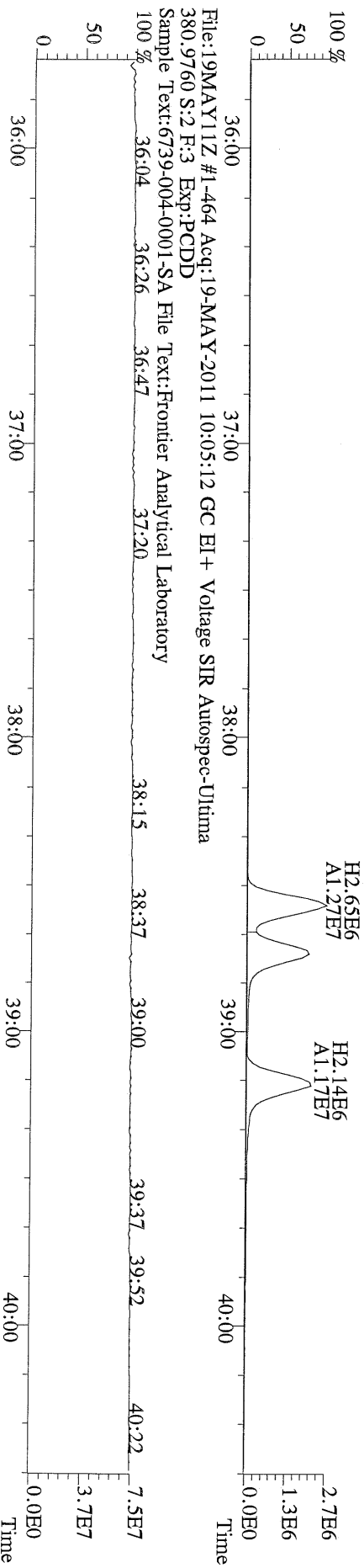


File:19MAY11Z #1-426 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S:2 F:2 Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory
29:51 30:48 31:40 31:57 33:08 33:08 2.8E7 1.4E7 0.0E0

File:19MAY11Z #1-464 Acq:19-MAY-2011 10:05:12 GC EI + Voltage SIR Autospec-Ultima
389.8156 S:2 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory

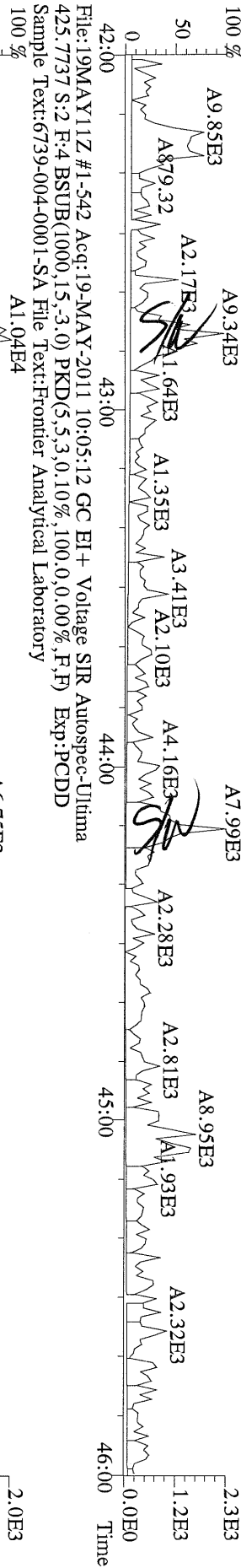


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Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory

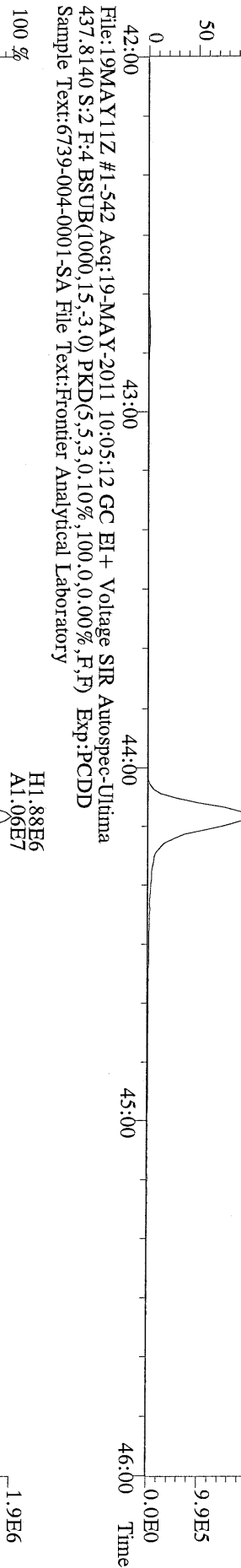


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380.9760 S:2 F:3 Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory

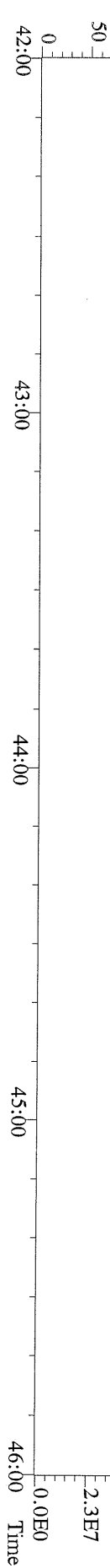
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423.7767 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



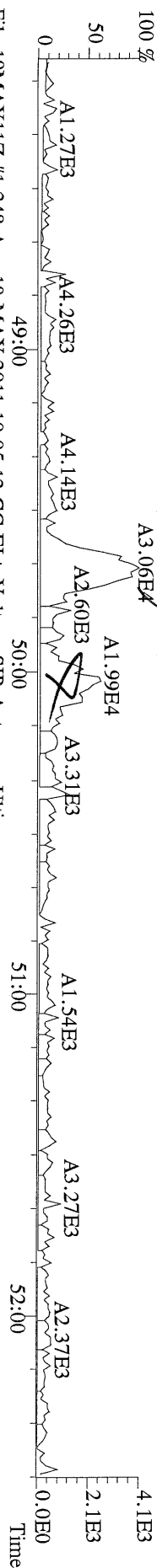
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Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



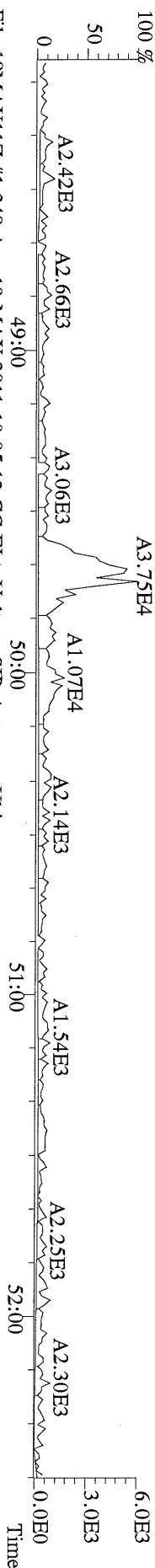
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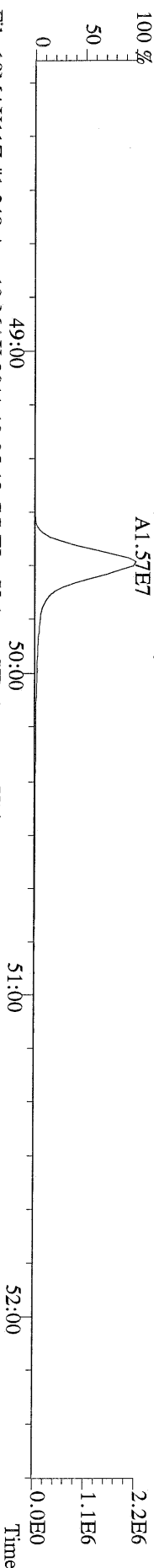
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457.7377 S:2 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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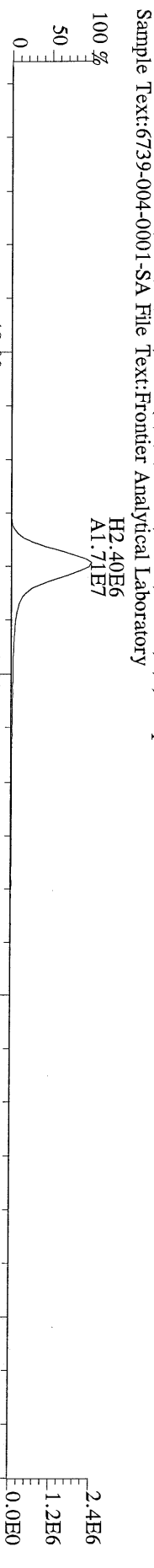
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Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



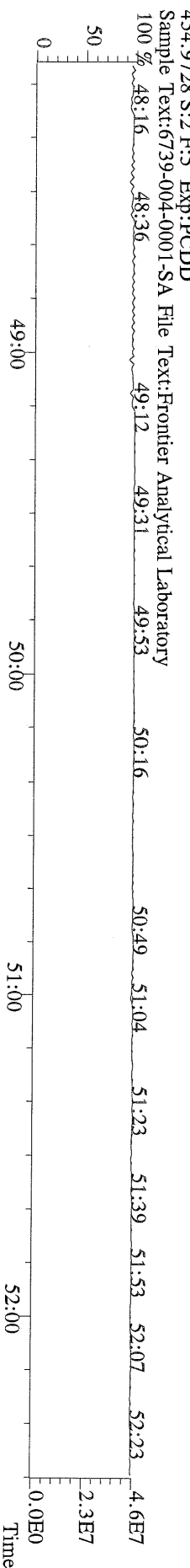
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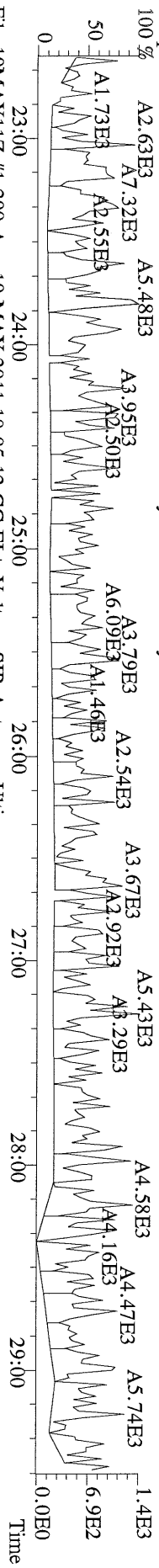
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Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



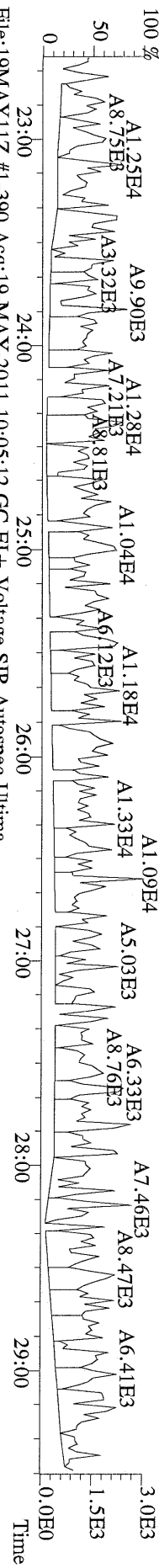
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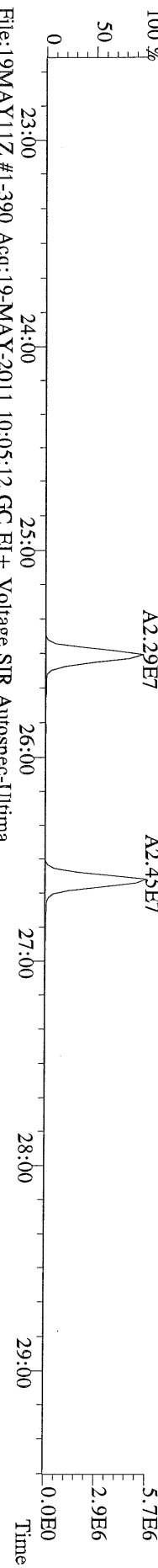
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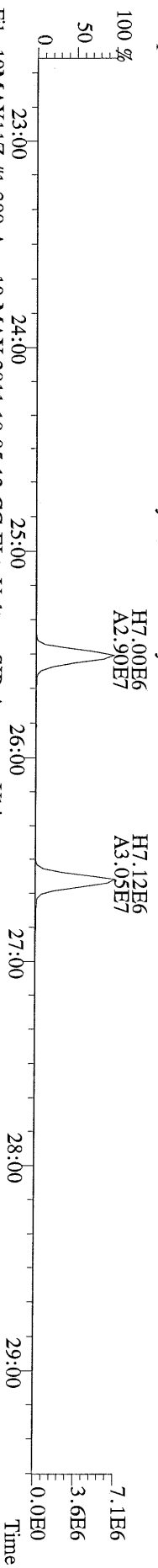
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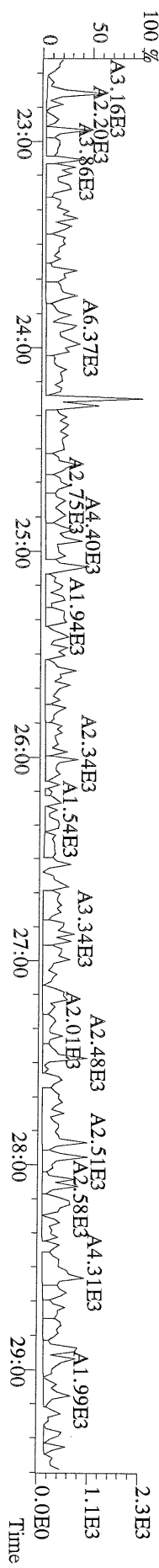
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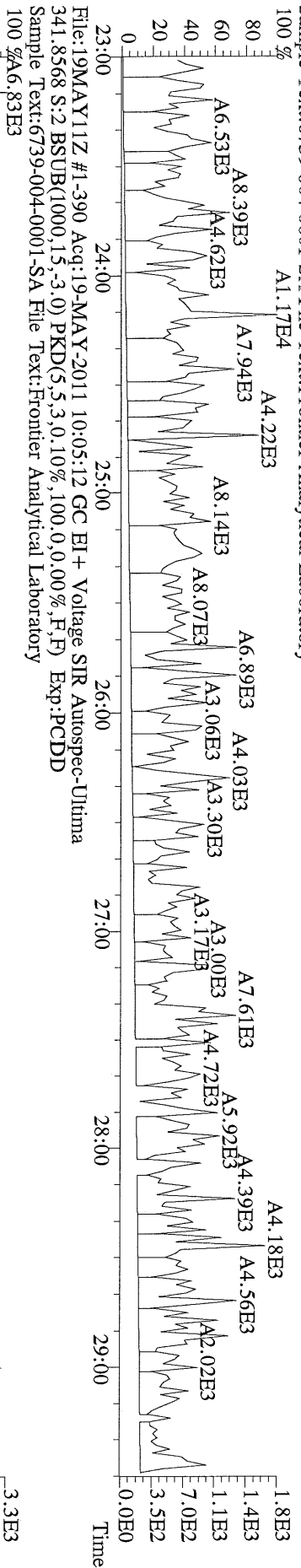
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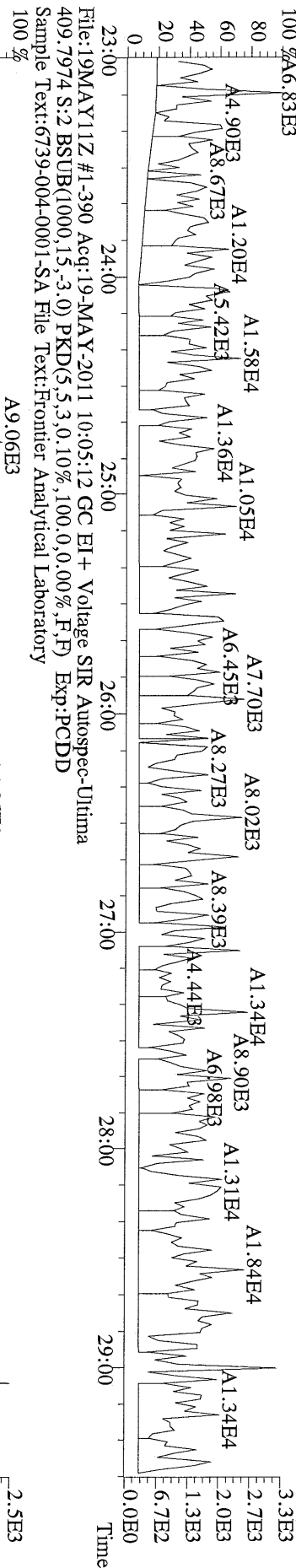
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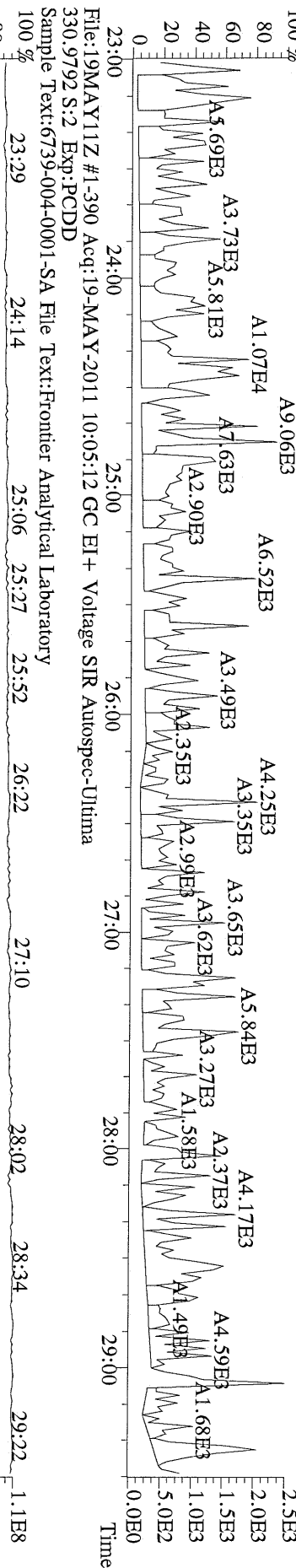
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 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



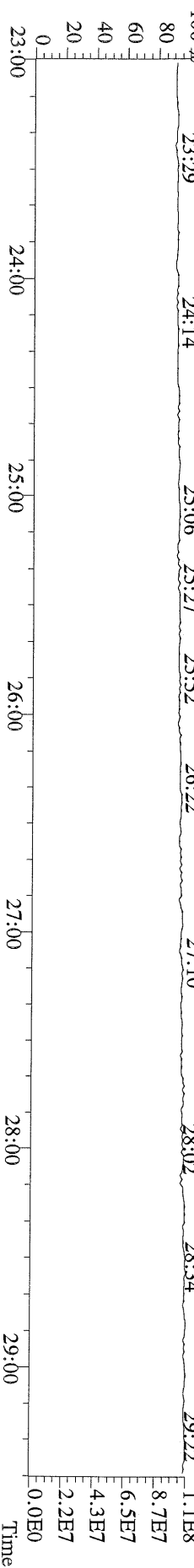
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 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-390 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory

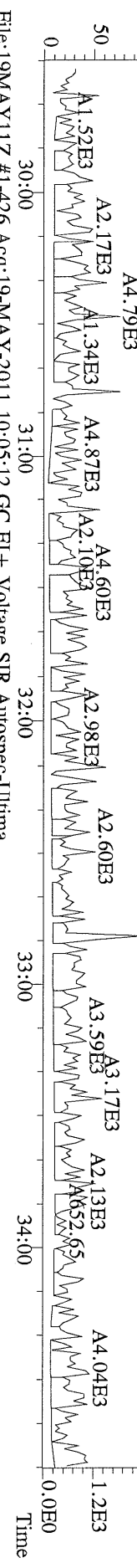


File:19MAY11Z #1-390 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
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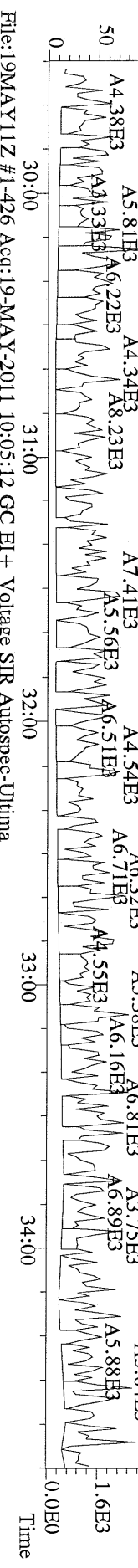


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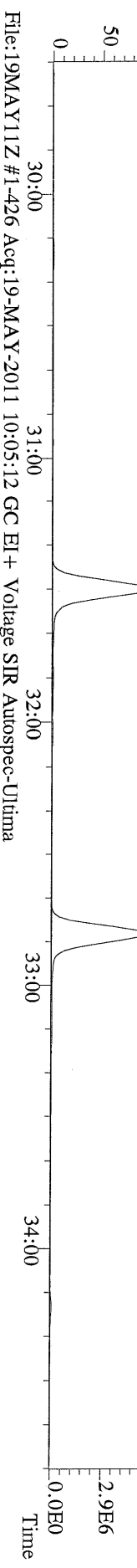
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Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



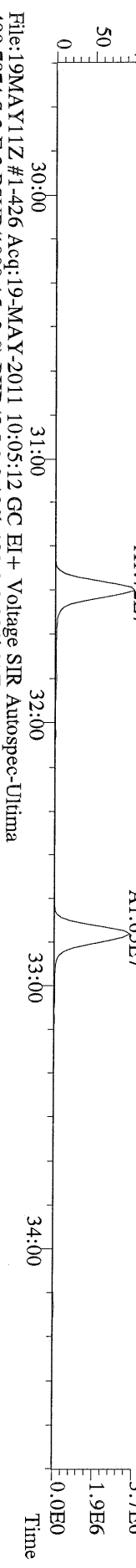
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Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



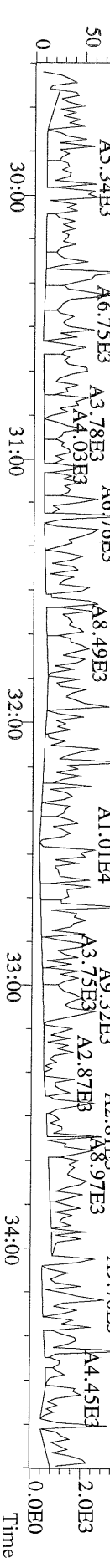
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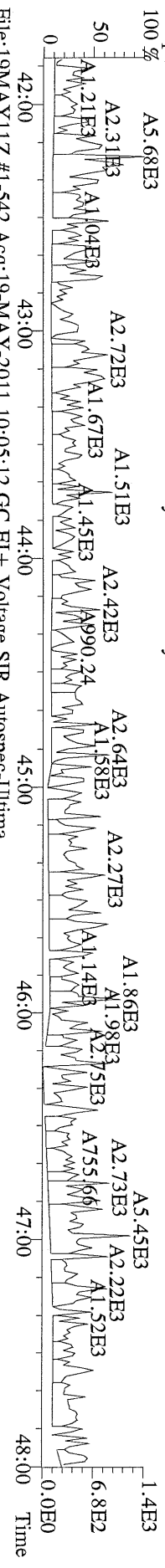
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Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



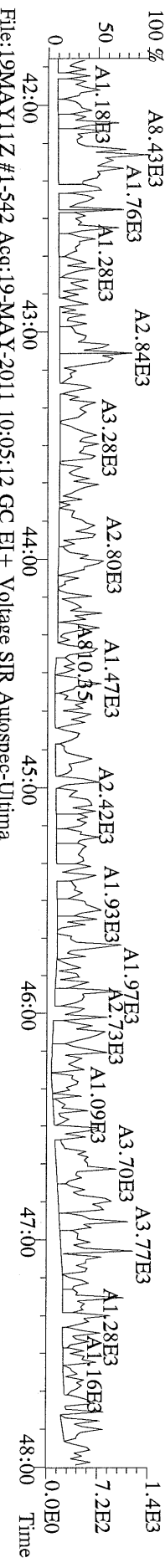
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Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



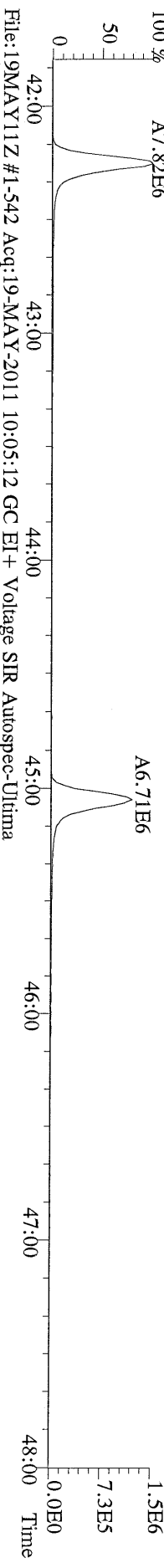
File:19MAY11Z #1-542 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultime
407.7818 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



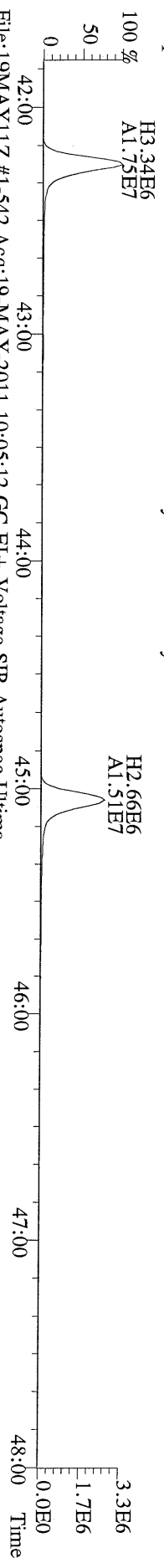
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409.7788 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



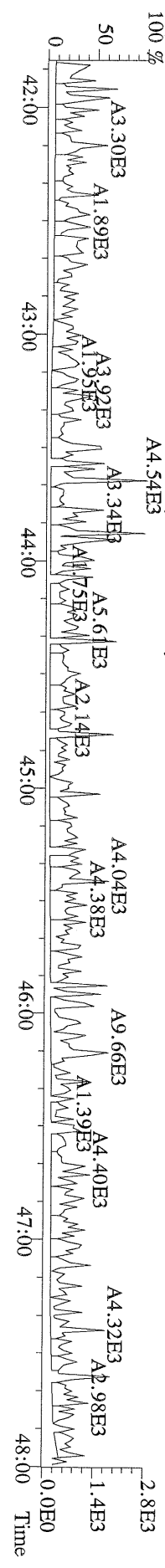
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417.8255 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



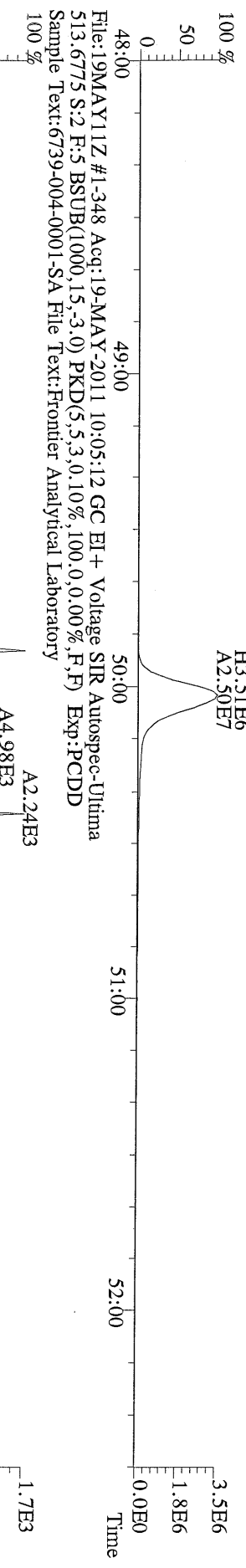
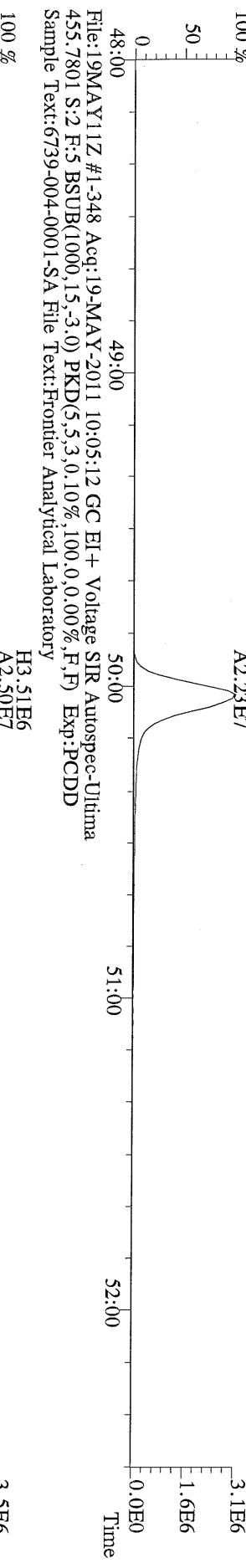
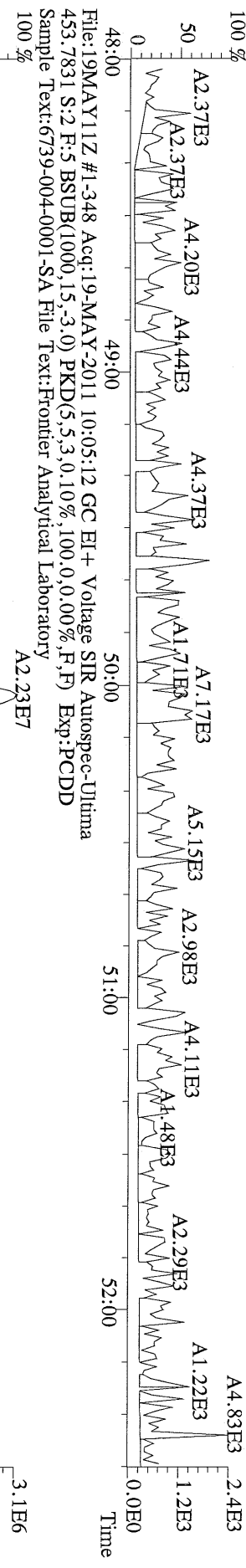
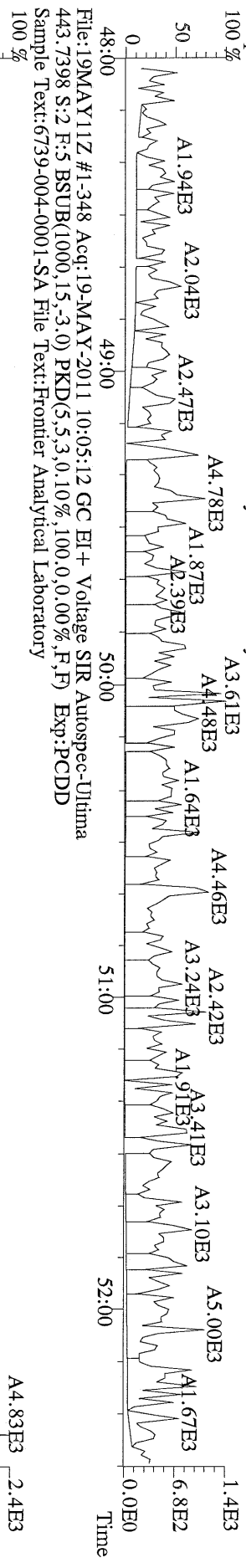
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419.8220 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-542 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultime
479.7165 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-348 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:2 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory



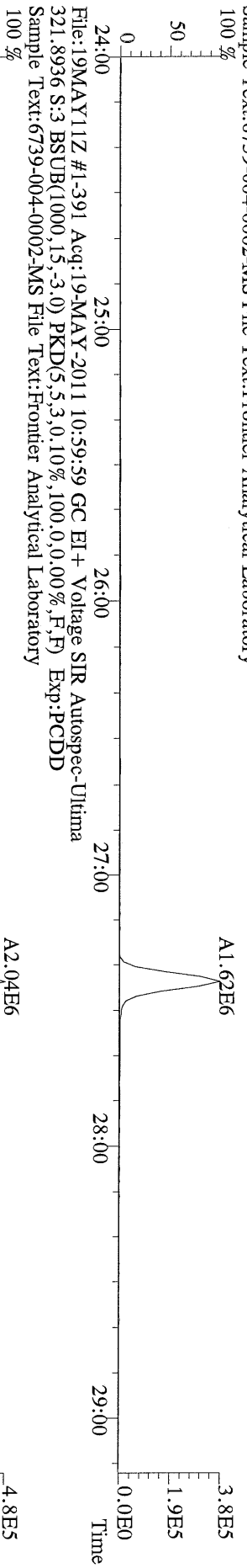
File:19MAY11Z #1-348 Acq:19-MAY-2011 10:05:12 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:2 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0001-SA File Text:Frontier Analytical Laboratory

FAL ID: 6739-004-0002-MS Filename: 19MAY11Z Sam:3 Acquired: 19-MAY-11 10:59:59 ICal: PCDDFAL4-5-17-11
 Client ID: MW06-042611 ConCal: ST051911Z1 EndCal: ST051911Z2
 Results: 6739-4 GC Column: DB5 Amount: 1.031 NATO 1989 Tox: 2200

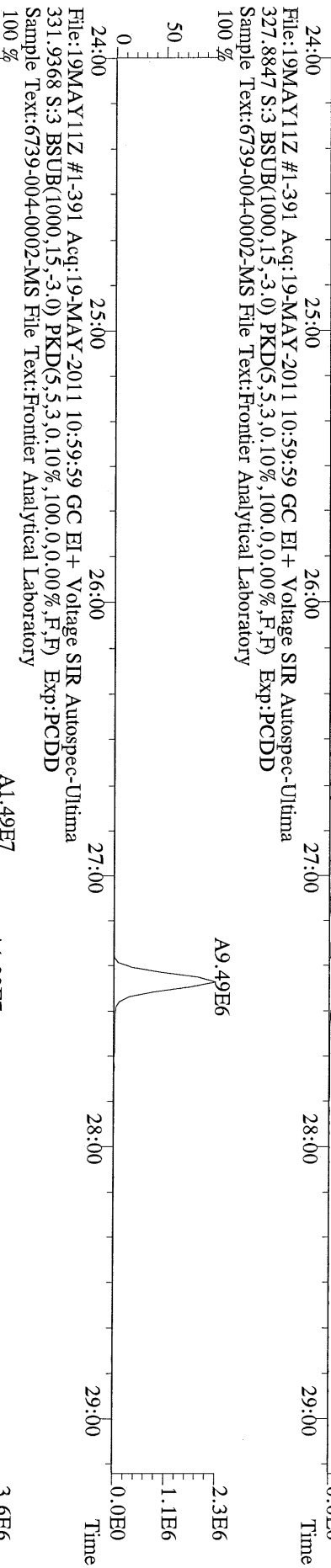
Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL	
2,3,7,8-TCDD	3.66e+06	0.79 y	27:24	1.15	207		2.50	-	-	*	
1,2,3,7,8-PeCDD	1.40e+07	1.57 y	33:15	1.02	1120		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	1.34e+07	1.26 y	38:35	1.09	1110		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	1.13e+07	1.23 y	38:45	1.08	1110		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	1.29e+07	1.23 y	39:12	1.12	1120		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	9.34e+06	1.05 y	44:09	1.03	1100		2.50	-	-	*	
OCDD	1.55e+07	0.89 y	49:41	1.21	2110		2.50	-	-	*	
2,3,7,8-TCDF	5.29e+06	0.77 y	26:37	1.09	211		2.50	-	-	*	
1,2,3,7,8-PeCDF	1.86e+07	1.55 y	31:31	0.96	1060		2.50	-	-	*	
2,3,4,7,8-PeCDF	1.87e+07	1.55 y	32:49	0.96	1100		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	1.55e+07	1.25 y	37:12	1.18	1090		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	1.71e+07	1.25 y	37:24	1.03	1110		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	1.61e+07	1.23 y	38:20	1.17	1100		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	2.03e+07	1.26 y	39:46	1.27	1120		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	1.40e+07	1.03 y	42:17	1.36	1090		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	1.21e+07	1.05 y	45:04	1.35	1090		2.50	-	-	*	
OCDF	1.92e+07	0.89 y	50:03	0.97	2300		2.50	-	-	*	
										Rec	
13C-2,3,7,8-TCDD	2.99e+07	0.81 y	27:23	0.99	1740					89.9	
13C-1,2,3,7,8-PeCDD	2.37e+07	1.60 y	33:13	0.79	1730					89.3	
13C-1,2,3,4,7,8-HxCDD	2.15e+07	1.28 y	38:34	1.03	1600					82.6	
13C-1,2,3,6,7,8-HxCDD	1.83e+07	1.29 y	38:44	0.96	1460					75.5	
13C-1,2,3,4,6,7,8-HpCDD	1.59e+07	1.06 y	44:08	0.75	1630					84.1	
13C-OCDD	2.36e+07	0.91 y	49:39	0.50	3590					92.5	
13C-2,3,7,8-TCDF	4.49e+07	0.80 y	26:36	0.98	1750					90.4	
13C-1,2,3,7,8-PeCDF	3.53e+07	1.57 y	31:30	0.78	1740					89.9	
13C-2,3,4,7,8-PeCDF	3.44e+07	1.59 y	32:49	0.75	1750					90.4	
13C-1,2,3,4,7,8-HxCDF	2.34e+07	0.53 y	37:11	1.05	1700					87.9	
13C-1,2,3,6,7,8-HxCDF	2.90e+07	0.52 y	37:23	1.40	1590					81.7	
13C-2,3,4,6,7,8-HxCDF	2.43e+07	0.52 y	38:19	1.16	1610					83.0	
13C-1,2,3,7,8,9-HxCDF	2.75e+07	0.52 y	39:45	1.30	1630					83.8	
13C-1,2,3,4,6,7,8-HpCDF	1.82e+07	0.45 y	42:15	0.83	1690					87.1	
13C-1,2,3,4,7,8,9-HpCDF	1.61e+07	0.45 y	45:03	0.69	1770					91.4	
13C-OCDF	3.35e+07	0.90 y	50:02	0.77	3330					85.9	
37Cl-2,3,7,8-TCDD	9.49e+06		27:24	0.71	772					99.5	
13C-1,2,3,4-TCDD	3.36e+07	0.80 y	26:47	-	61.0						
13C-1,2,3,4-TCDF	5.06e+07	0.80 y	25:31	-	65.6						
13C-1,2,3,7,8,9-HxCDD	2.53e+07	1.27 y	39:11	-	63.6						
							Fac Noise-1	Noise-2	DL	#Hom	
Total Tetra-Dioxins	3.90e+06		23:18	1.15	221		2.50	-	-	*	23
Total Penta-Dioxins	1.41e+07		31:44	1.02	1130		2.50	-	-	*	4
Total Hexa-Dioxins	3.77e+07		37:31	1.10	3340		2.50	-	-	*	8
Total Hepta-Dioxins	9.59e+06		42:47	1.03	1130		2.50	-	-	*	16
Total Tetra-Furans	5.65e+06		22:58	1.09	225		2.50	-	-	*	24
1st Fn. Tot Penta-Furans	1.93e+05		22:56	0.96	11.1		2.50	-	-	*	PeCDF 28
Total Penta-Furans	3.81e+07		30:16	0.96	2200		2.50	-	-	*	2210 9
Total Hexa-Furans	6.92e+07		35:32	1.16	4430		2.50	-	-	*	13
Total Hepta-Furans	2.67e+07		42:17	1.36	2230		2.50	-	-	*	24

Analyst: J Date: 5/19/11

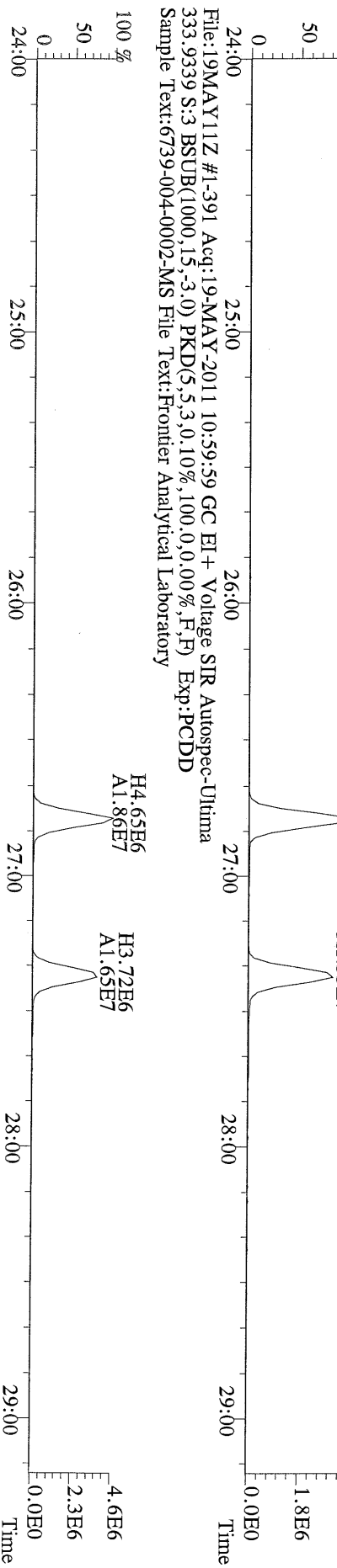
File:19MAY11Z #1-391 Acq:19-MAY-2011 10:59:59 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



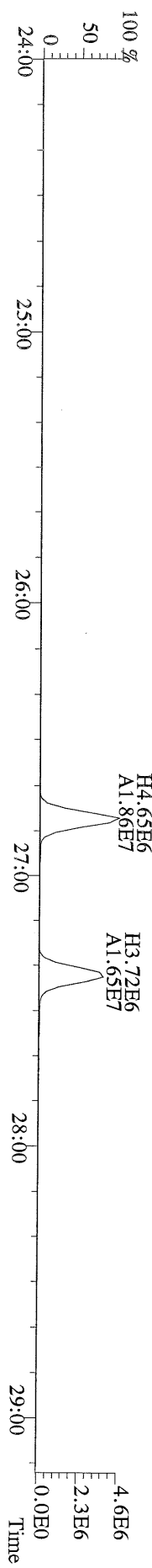
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327.8847 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



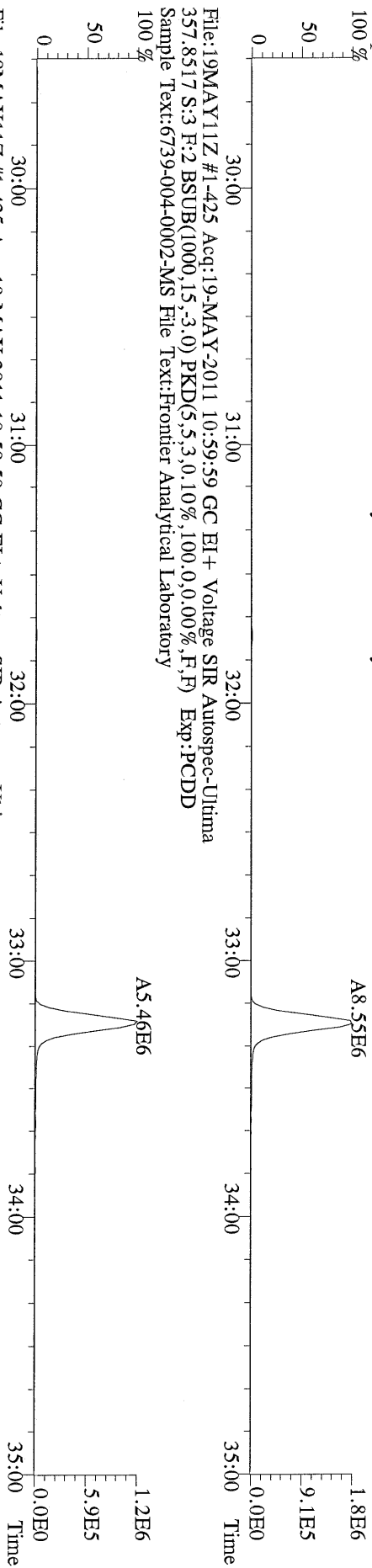
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331.9368 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



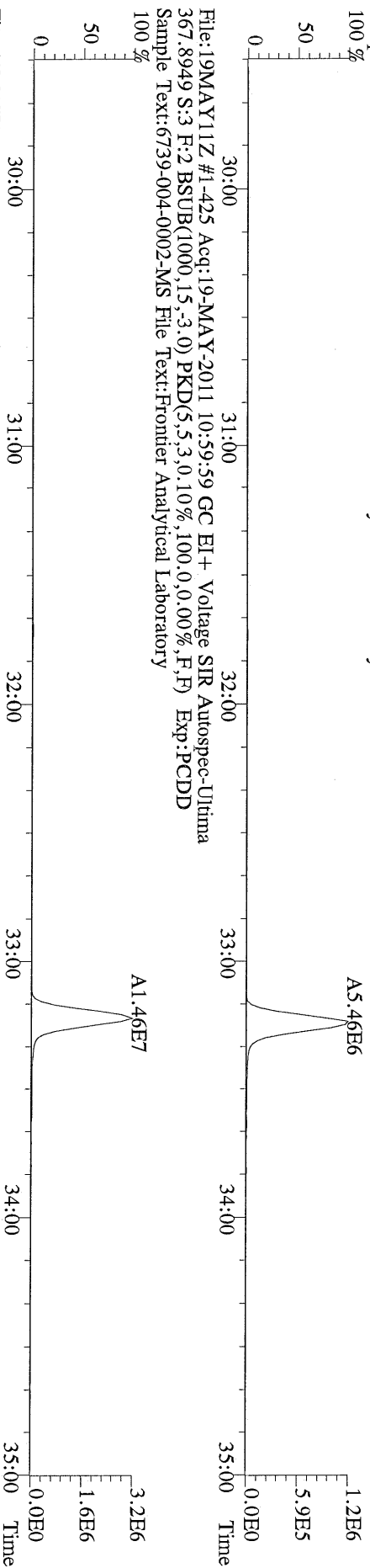
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333.9339 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



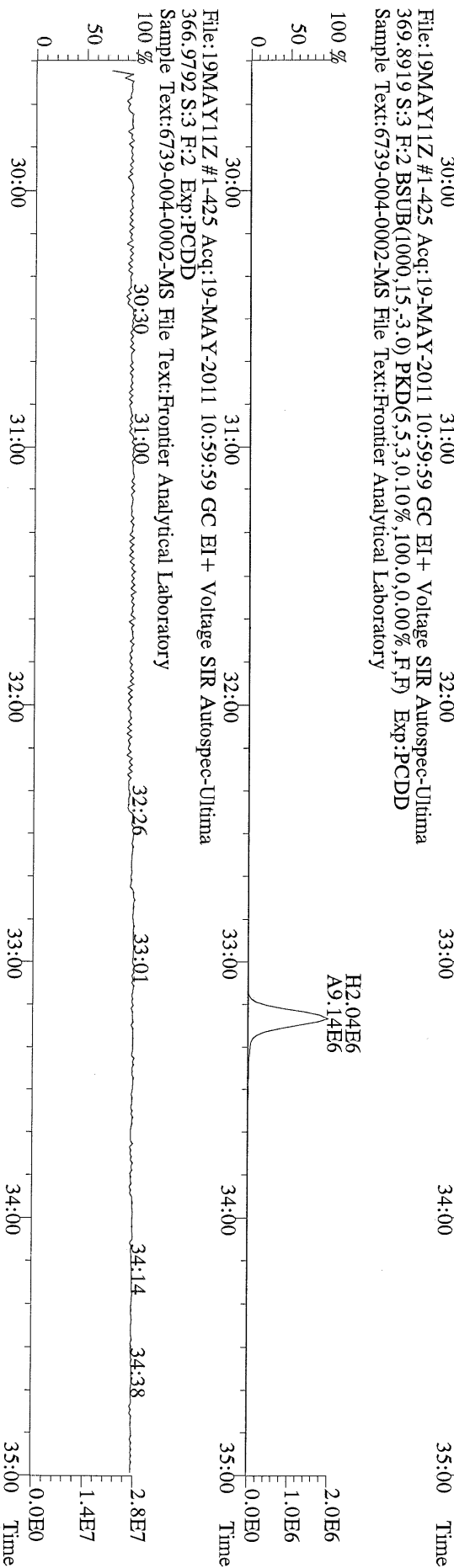
File:19MAY11Z #1-425 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



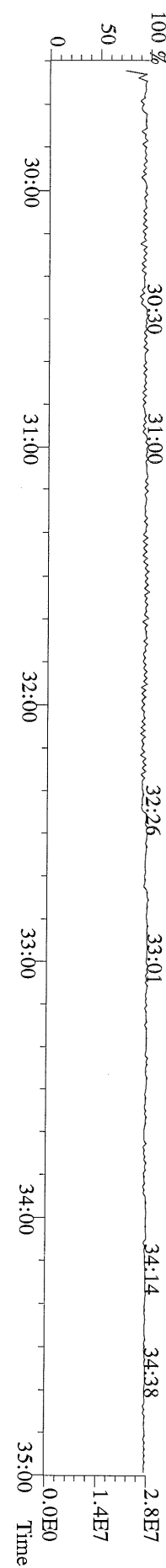
File:19MAY11Z #1-425 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



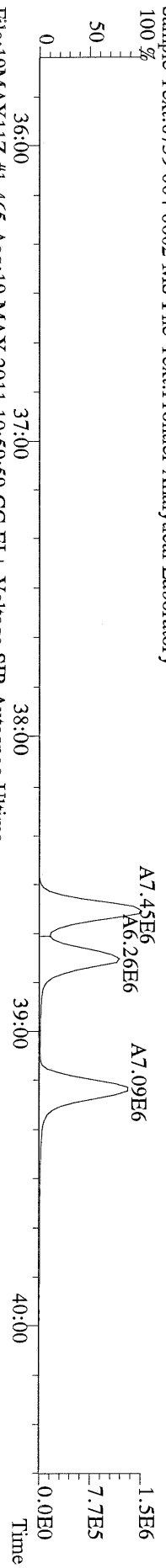
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367.8949 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



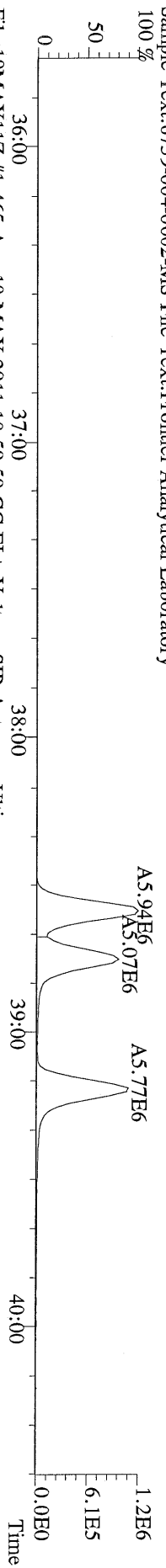
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366.9792 S:3 F:2 Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



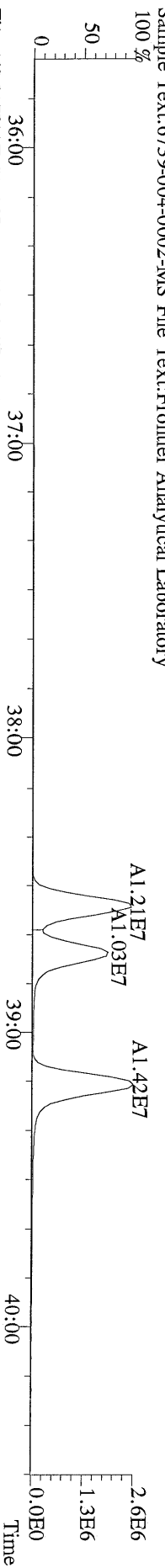
File:19MAY11Z #1-465 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
389.8156 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



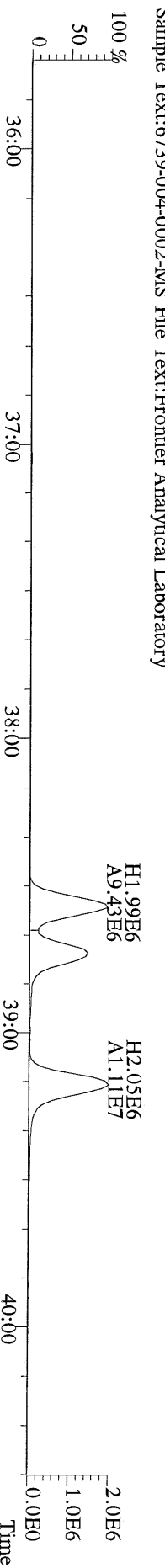
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391.8127 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



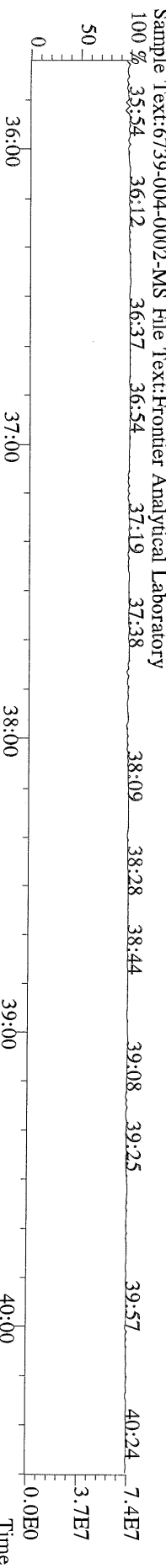
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401.8559 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



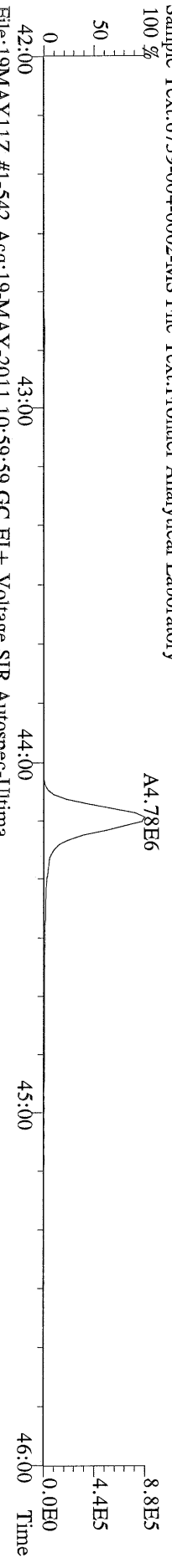
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403.8530 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



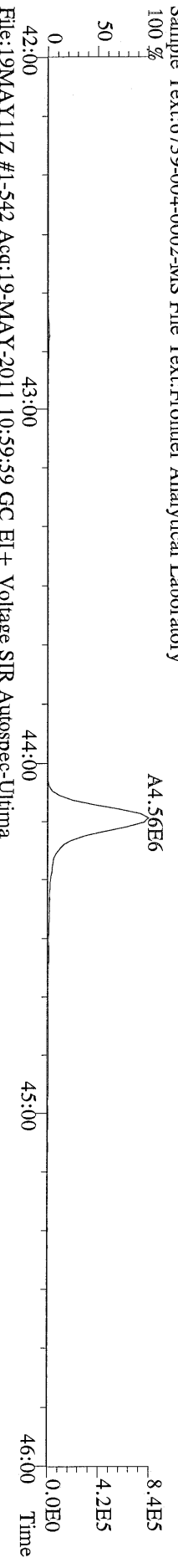
File:19MAY11Z #1-465 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
380.9760 S:3 F:3 Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



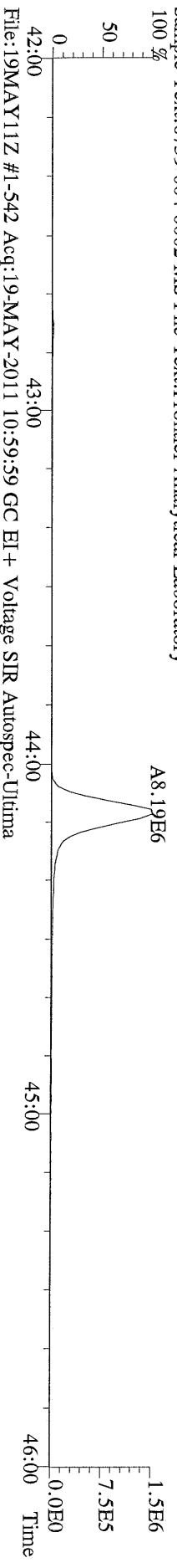
File:19MAY11Z #1-542 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



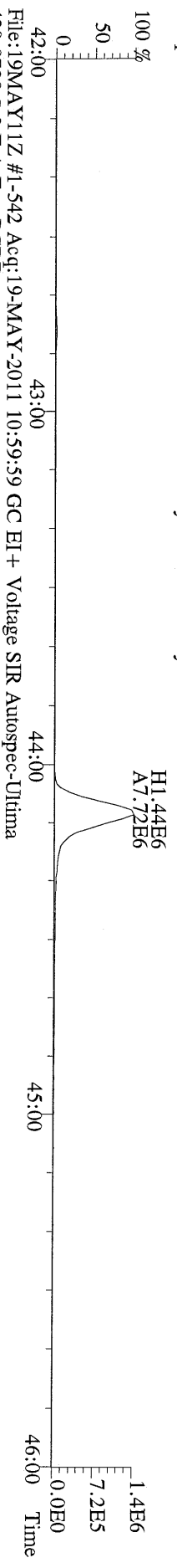
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425.7737 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



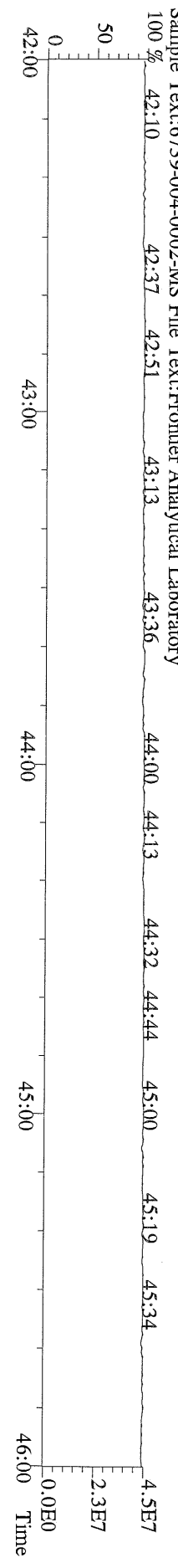
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435.8169 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



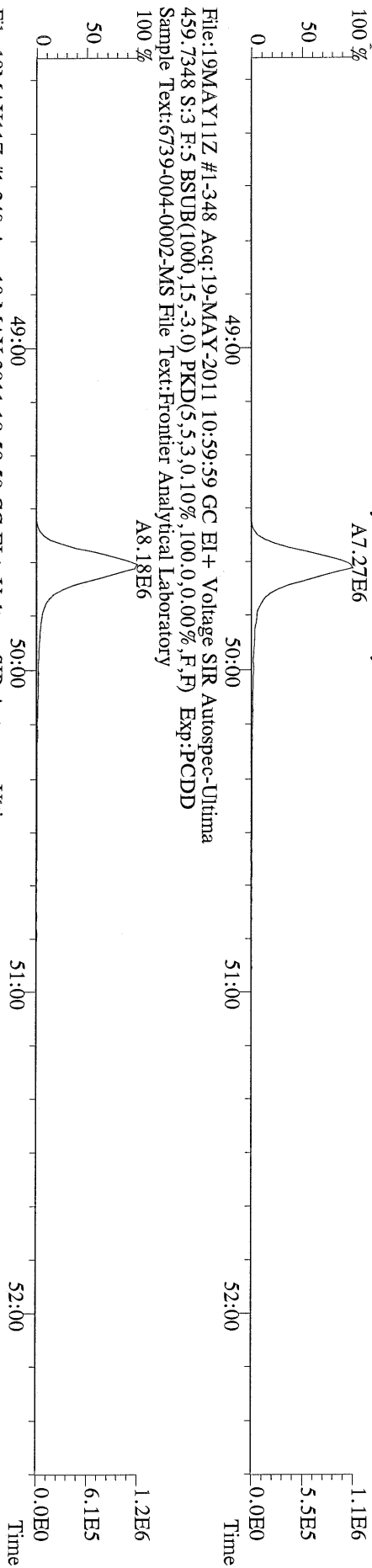
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437.8140 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



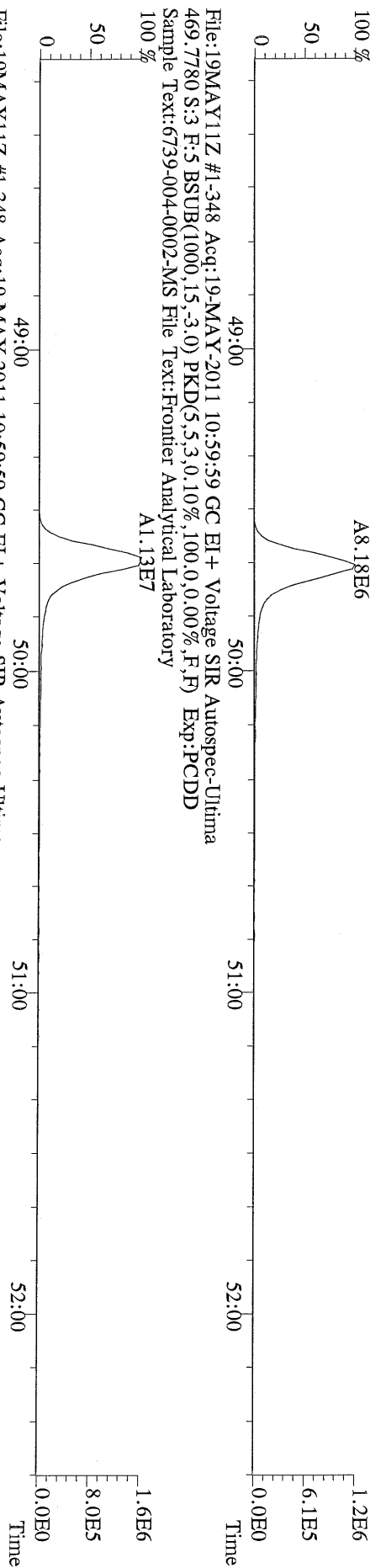
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Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



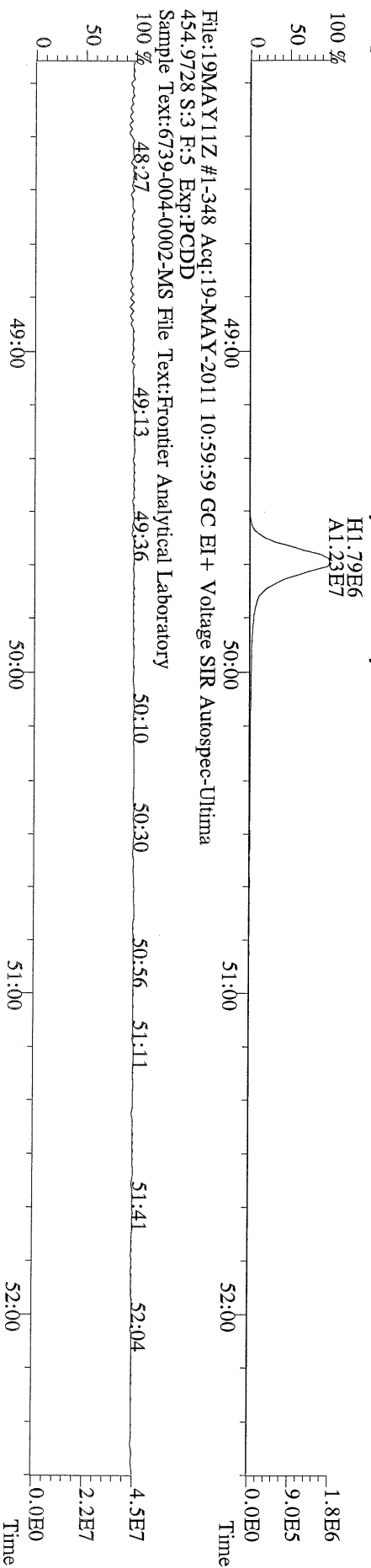
File:19MAY11Z #1-348 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



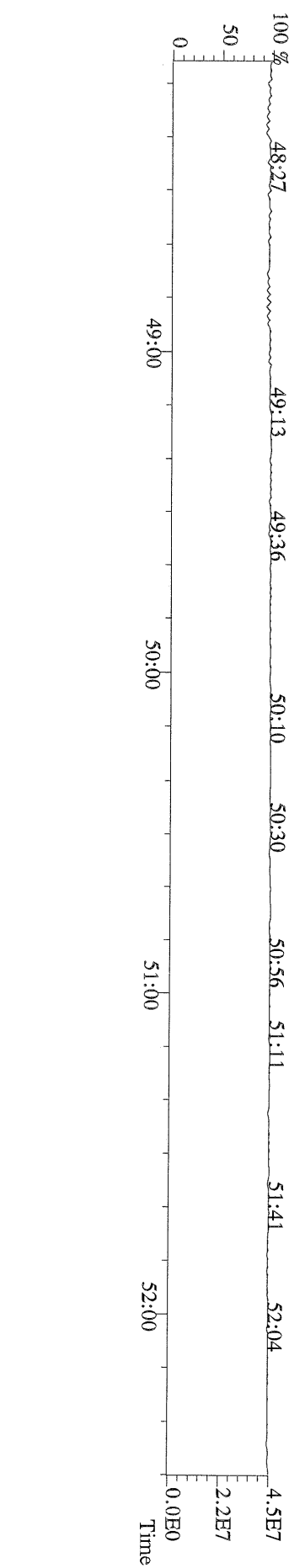
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459.7348 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



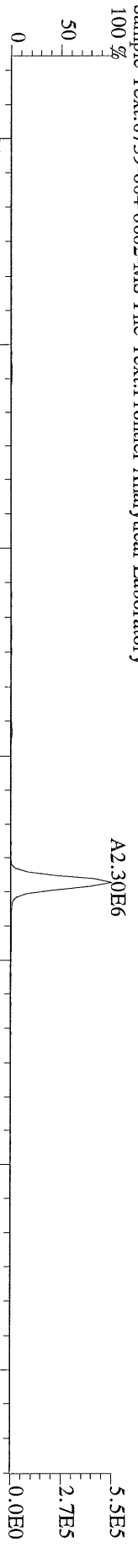
File:19MAY11Z #1-348 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
471.7750 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



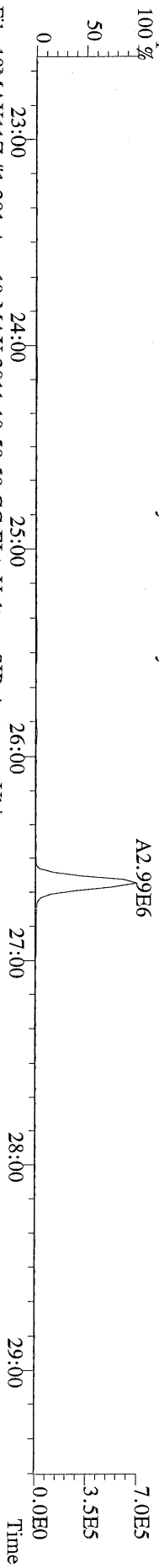
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454.9728 S:3 F:5 Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



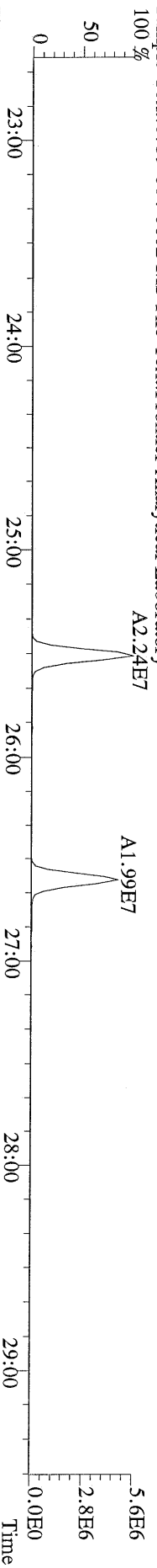
File:19MAY11Z #1-391 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



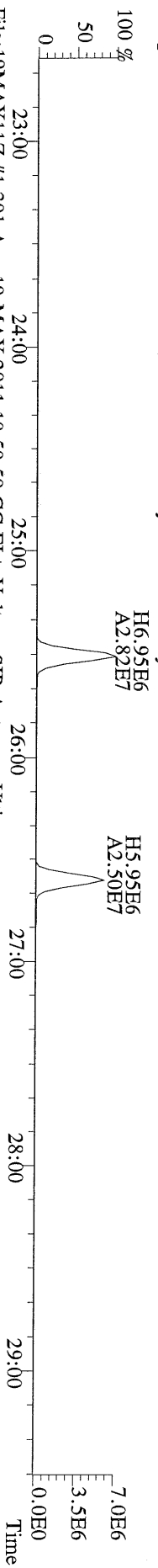
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305.8987 S:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



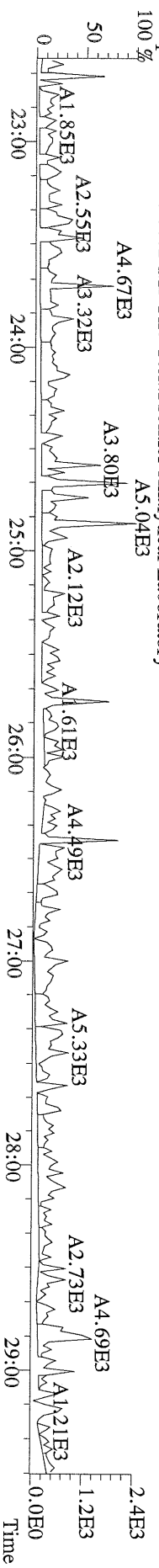
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315.9419 S:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



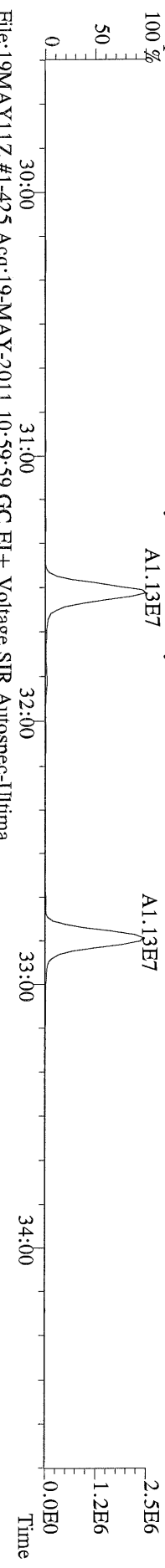
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317.9389 S:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



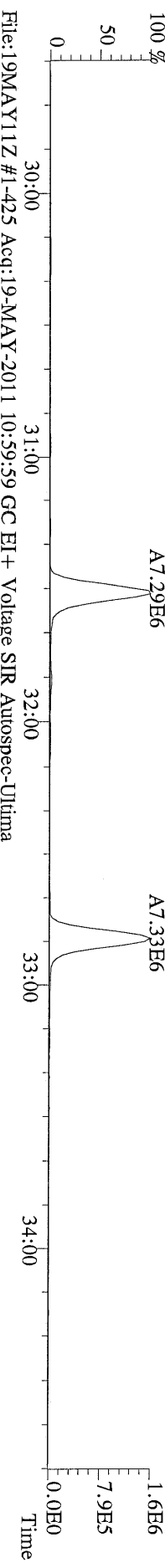
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375.8364 S:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



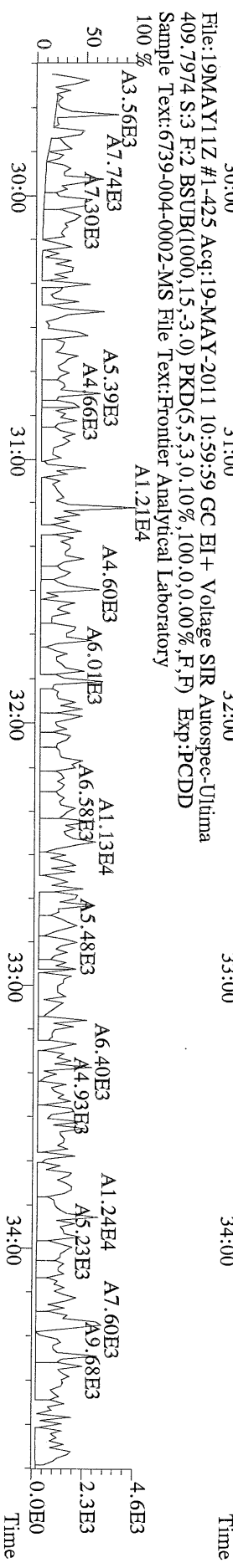
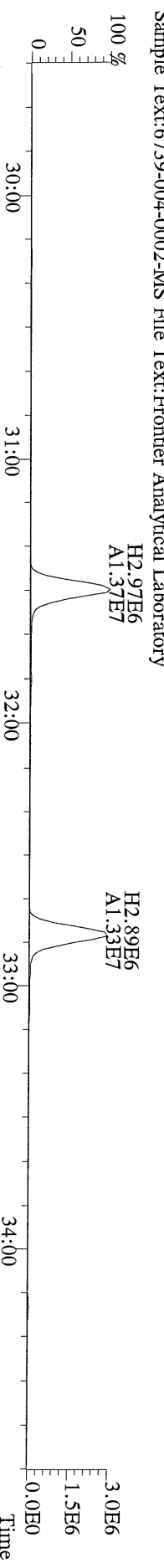
File:19MAY11Z #1-425 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



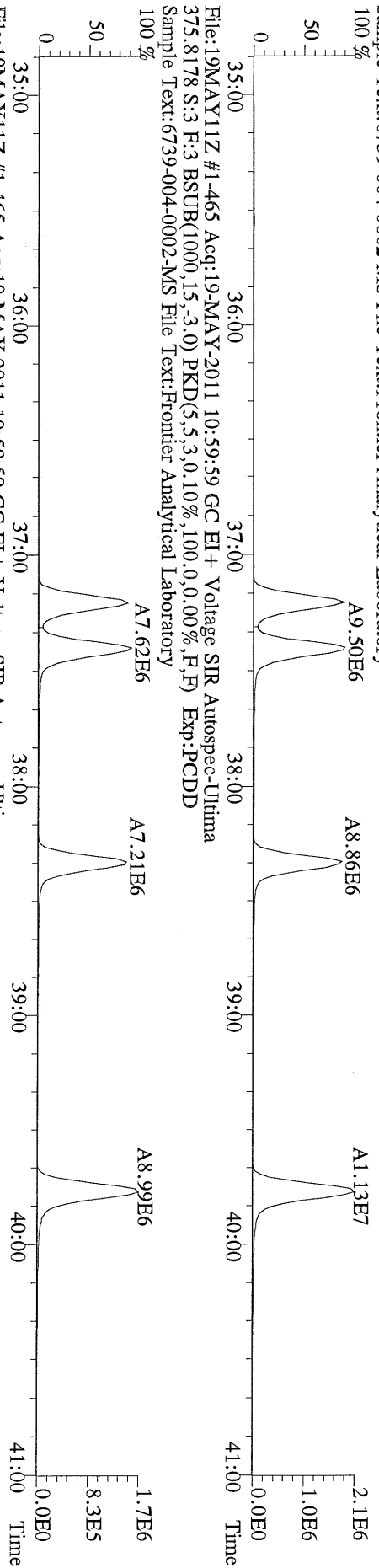
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351.9000 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



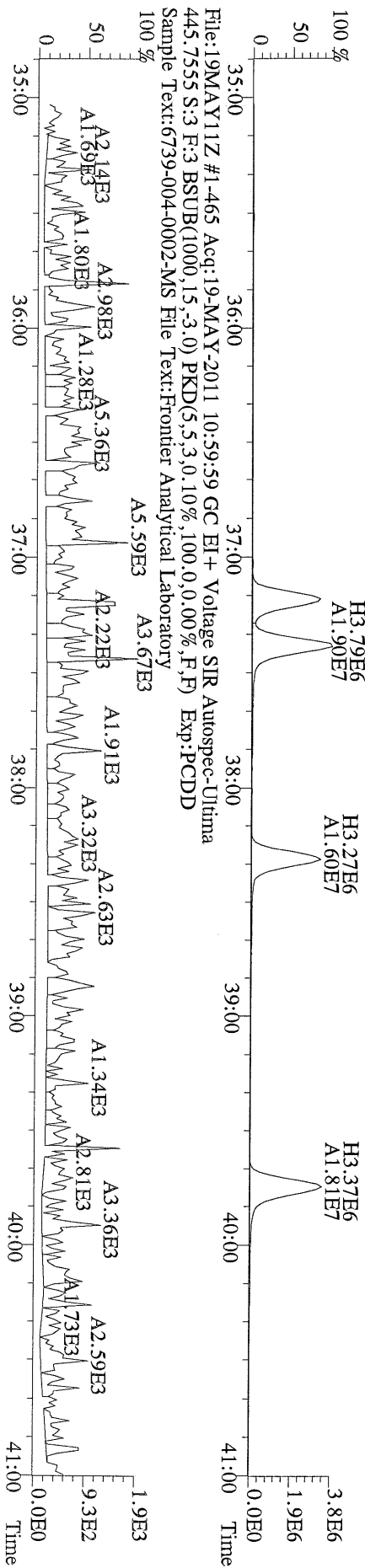
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409.7974 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-465 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



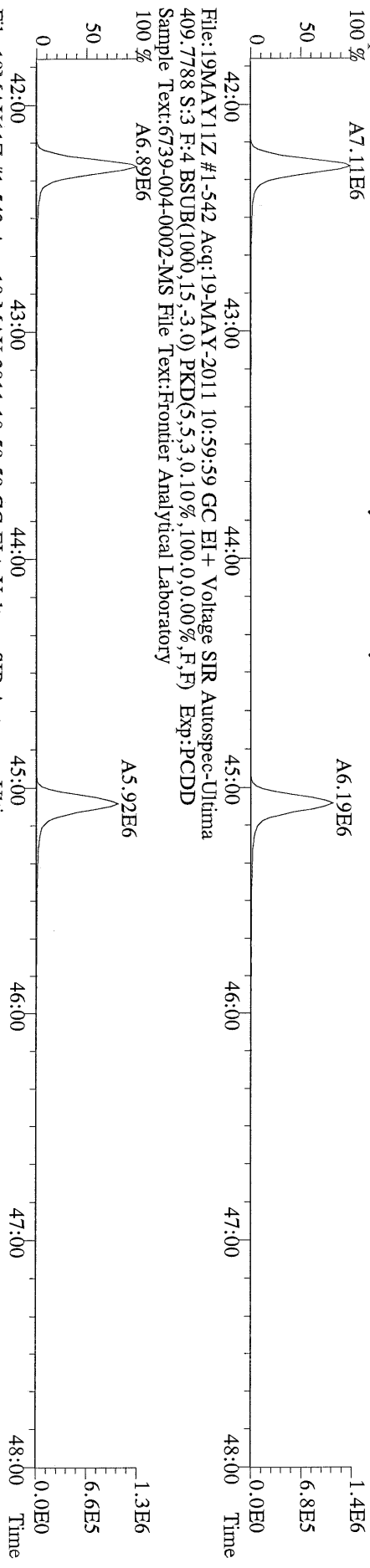
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383.8639 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



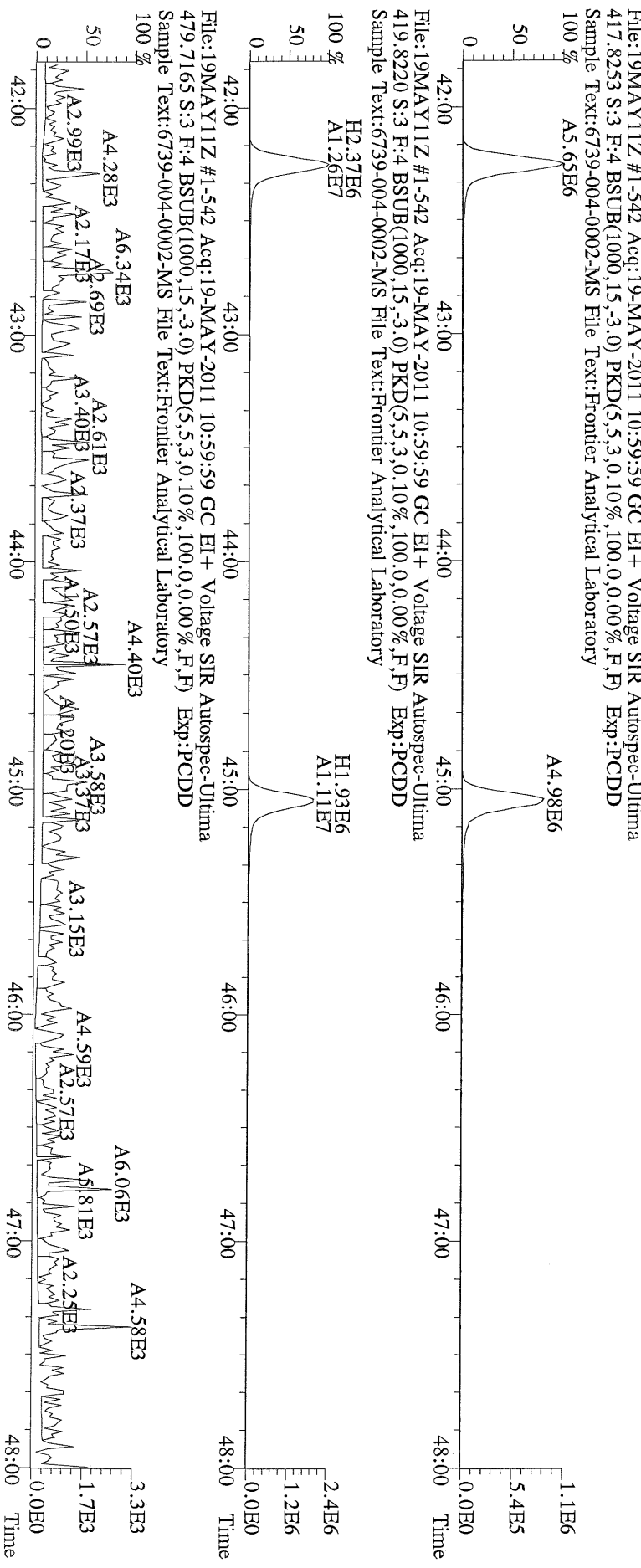
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445.7555 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



File:19MAYY11Z #1-542 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



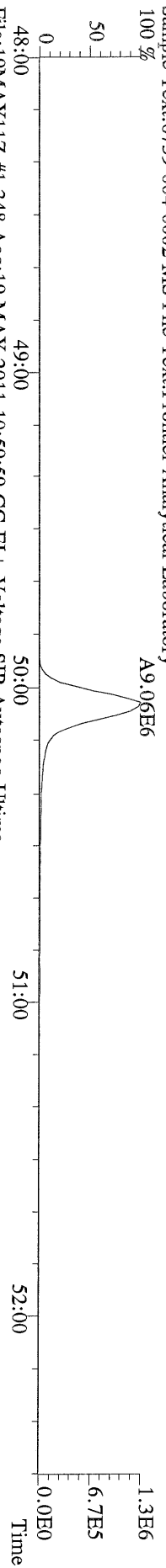
File:19MAYY11Z #1-542 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



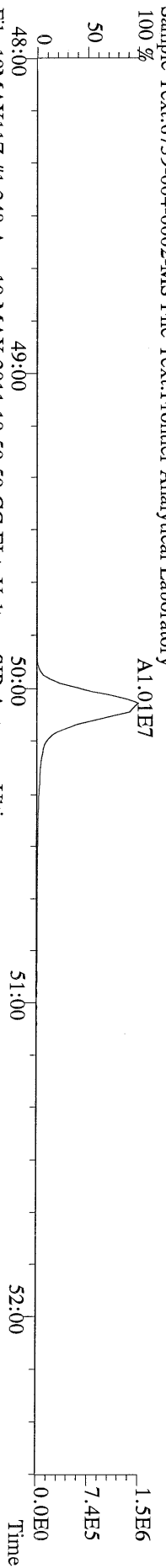
File:19MAYY11Z #1-542 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



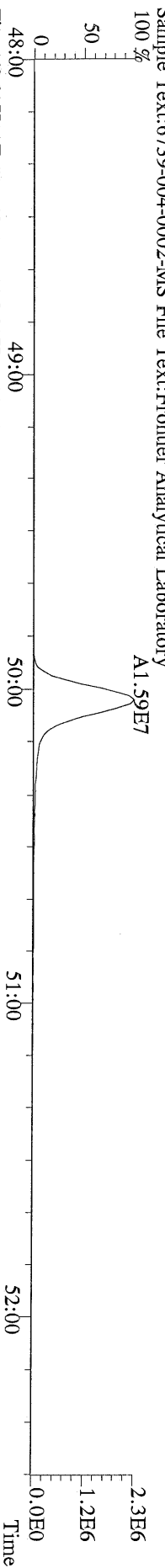
File:19MAY11Z #1-348 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



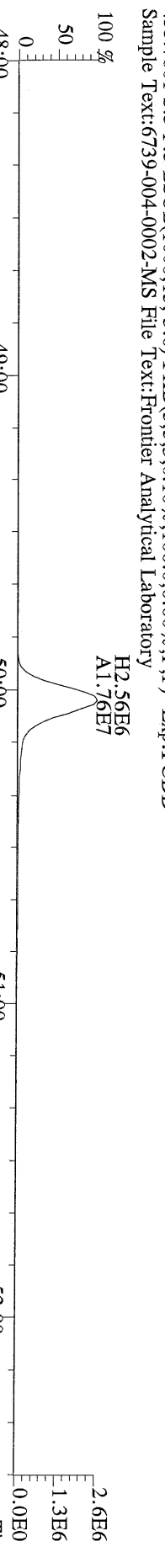
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443.7398 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



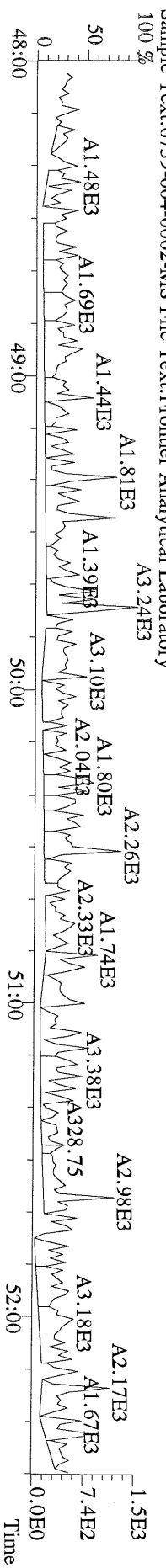
File:19MAY11Z #1-348 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-348 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-348 Acq:19-MAY-2011 10:59:59 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MS File Text:Frontier Analytical Laboratory

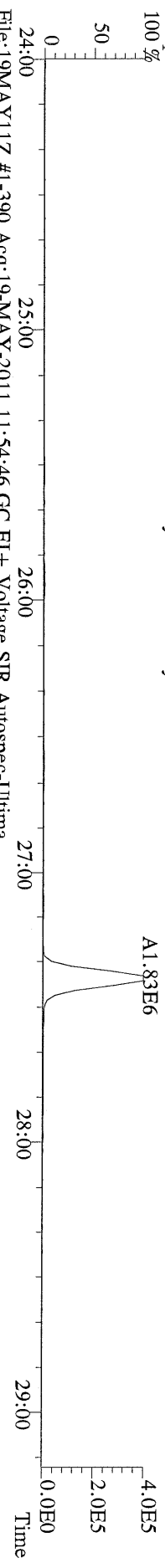


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	#Hom
2,3,7,8-TCDD	4.11e+06	0.80 y	27:24	1.15	220		2.50	-	*	
1,2,3,7,8-PeCDD	1.58e+07	1.59 y	33:15	1.02	1180		2.50	-	*	
1,2,3,4,7,8-HxCDD	1.57e+07	1.27 y	38:35	1.09	1130		2.50	-	*	
1,2,3,6,7,8-HxCDD	1.33e+07	1.24 y	38:46	1.08	1130		2.50	-	*	
1,2,3,7,8,9-HxCDD	1.56e+07	1.26 y	39:13	1.12	1180		2.50	-	*	
1,2,3,4,6,7,8-HpCDD	1.11e+07	1.04 y	44:10	1.03	1140		2.50	-	*	
OCDD	1.86e+07	0.90 y	49:41	1.21	2140		2.50	-	*	
2,3,7,8-TCDF	5.81e+06	0.77 y	26:38	1.09	214		2.50	-	*	
1,2,3,7,8-PeCDF	2.13e+07	1.54 y	31:31	0.96	1090		2.50	-	*	
2,3,4,7,8-PeCDF	2.02e+07	1.51 y	32:50	0.96	1100		2.50	-	*	
1,2,3,4,7,8-HxCDF	1.84e+07	1.25 y	37:13	1.18	1110		2.50	-	*	
1,2,3,6,7,8-HxCDF	2.00e+07	1.25 y	37:24	1.03	1130		2.50	-	*	
2,3,4,6,7,8-HxCDF	1.89e+07	1.25 y	38:20	1.17	1130		2.50	-	*	
1,2,3,7,8,9-HxCDF	2.46e+07	1.26 y	39:47	1.27	1140		2.50	-	*	
1,2,3,4,6,7,8-HpCDF	1.68e+07	1.04 y	42:17	1.36	1120		2.50	-	*	
1,2,3,4,7,8,9-HpCDF	1.43e+07	1.04 y	45:05	1.35	1110		2.50	-	*	
OCDF	2.30e+07	0.90 y	50:03	0.97	2350		2.50	-	*	
										Rec
13C-2,3,7,8-TCDD	3.24e+07	0.80 y	27:22	0.99	1920					96.7
13C-1,2,3,7,8-PeCDD	2.62e+07	1.61 y	33:14	0.79	1940					97.5
13C-1,2,3,4,7,8-HxCDD	2.54e+07	1.28 y	38:34	1.03	1890					95.2
13C-1,2,3,6,7,8-HxCDD	2.15e+07	1.29 y	38:44	0.96	1730					86.9
13C-1,2,3,4,6,7,8-HpCDD	1.88e+07	1.08 y	44:08	0.75	1930					97.2
13C-OCDD	2.86e+07	0.90 y	49:40	0.50	4360					110
13C-2,3,7,8-TCDF	4.96e+07	0.80 y	26:36	0.98	1930					97.2
13C-1,2,3,7,8-PeCDF	4.04e+07	1.58 y	31:30	0.78	1990					100.0
13C-2,3,4,7,8-PeCDF	3.79e+07	1.58 y	32:48	0.75	1920					96.6
13C-1,2,3,4,7,8-HxCDF	2.78e+07	0.53 y	37:11	1.05	2030					102
13C-1,2,3,6,7,8-HxCDF	3.40e+07	0.52 y	37:23	1.40	1860					93.9
13C-2,3,4,6,7,8-HxCDF	2.86e+07	0.53 y	38:19	1.16	1890					95.4
13C-1,2,3,7,8,9-HxCDF	3.36e+07	0.52 y	39:45	1.30	1990					100
13C-1,2,3,4,6,7,8-HpCDF	2.19e+07	0.45 y	42:15	0.83	2040					103
13C-1,2,3,4,7,8,9-HpCDF	1.90e+07	0.45 y	45:04	0.69	2100					106
13C-OCDF	4.03e+07	0.90 y	50:02	0.77	4020					101
37Cl-2,3,7,8-TCDD	9.66e+06		27:23	0.71	797					100
13C-1,2,3,4-TCDD	3.39e+07	0.80 y	26:48	-	63.1					
13C-1,2,3,4-TCDF	5.21e+07	0.80 y	25:30	-	69.1					
13C-1,2,3,7,8,9-HxCDD	2.59e+07	1.28 y	39:11	-	66.5					
							Fac Noise-1	Noise-2	DL	#Hom
Total Tetra-Dioxins	4.34e+06		22:57	1.15	232		2.50	-	*	22
Total Penta-Dioxins	1.60e+07		31:31	1.02	1190		2.50	-	*	5
Total Hexa-Dioxins	4.49e+07		37:31	1.10	3460		2.50	-	*	10
Total Hepta-Dioxins	1.15e+07		42:48	1.03	1180		2.50	-	*	17
Total Tetra-Furans	6.17e+06		24:09	1.09	227		2.50	-	*	16
1st Fn. Tot Penta-Furans	2.49e+05		22:52	0.96	13.2		2.50	-	*	PeCDF 34
Total Penta-Furans	4.27e+07		30:02	0.96	2250		2.50	-	*	2270 12
Total Hexa-Furans	8.23e+07		35:33	1.16	4530		2.50	-	*	11
Total Hepta-Furans	3.16e+07		42:17	1.36	2260		2.50	-	*	16

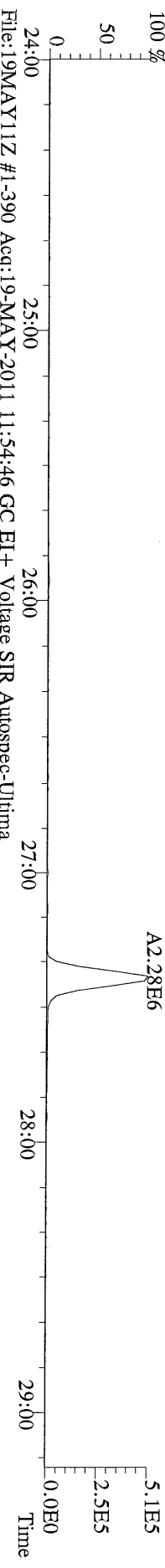
Analyst: J

Date: 5/19/11

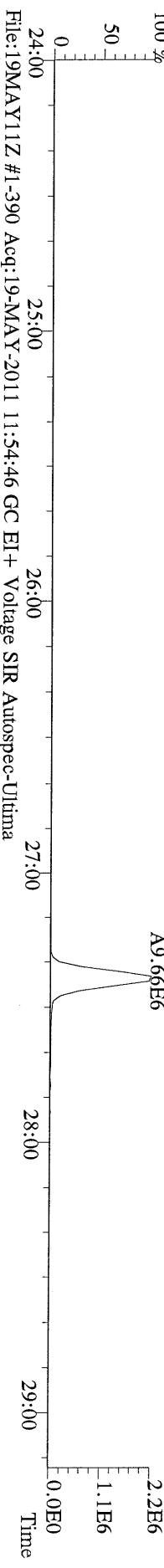
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:4 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



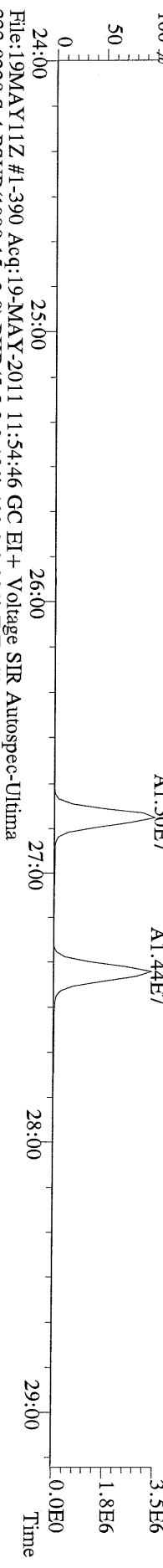
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321.8936 S:4 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



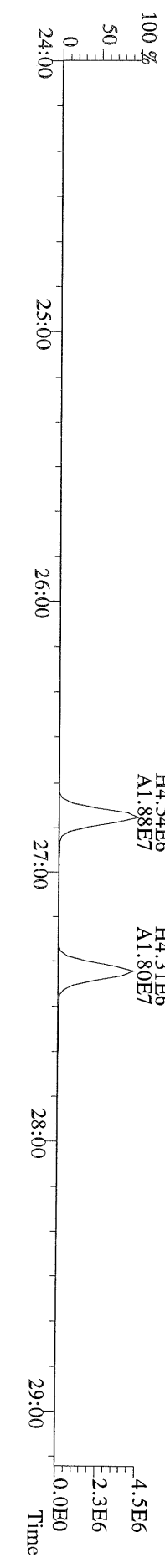
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI + Voltage SIR Autospec-Ultima
327.8847 S:4 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



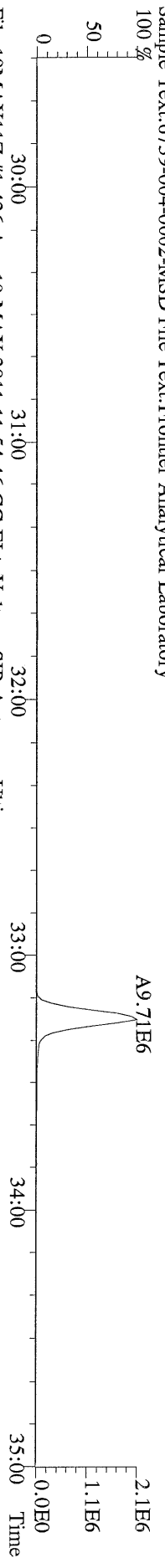
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331.9368 S:4 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



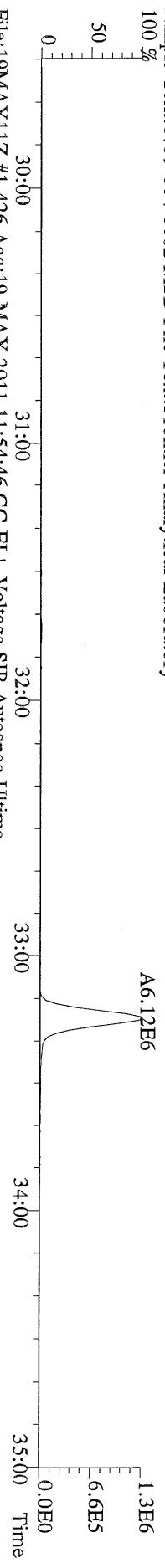
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333.9339 S:4 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



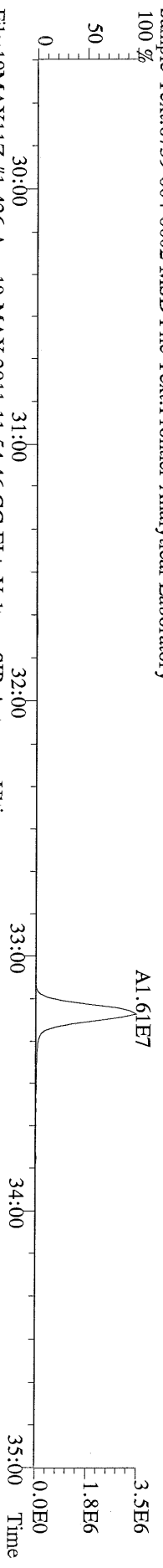
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355.8546 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



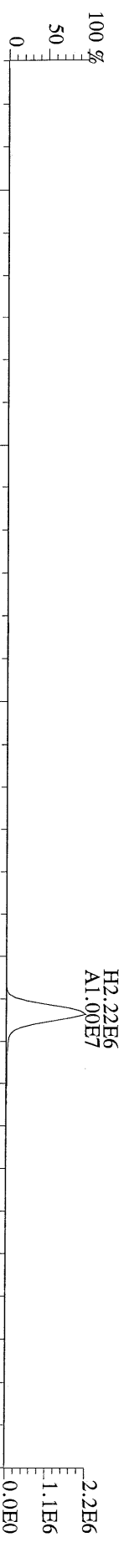
File:19MAYY11Z #1-426 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



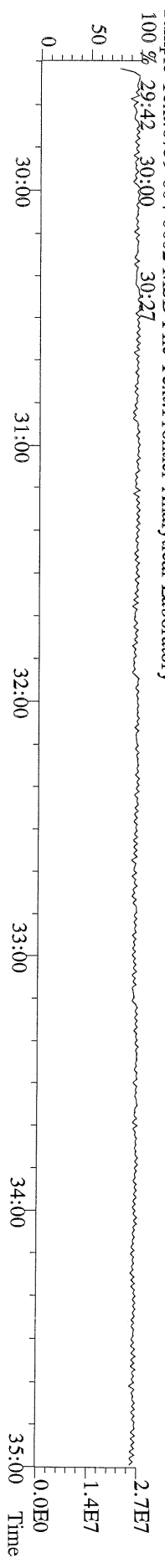
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367.8949 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



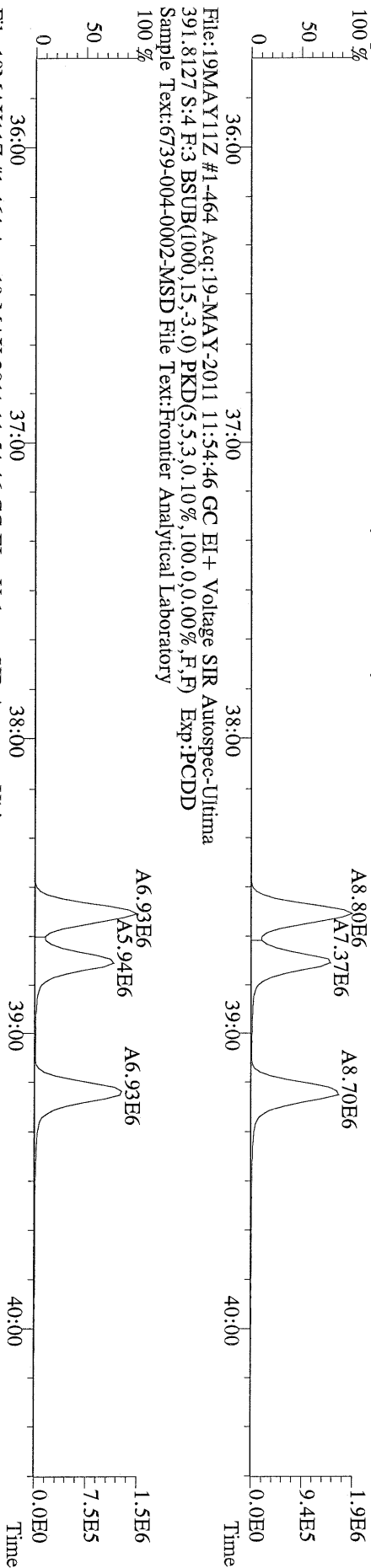
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369.8919 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



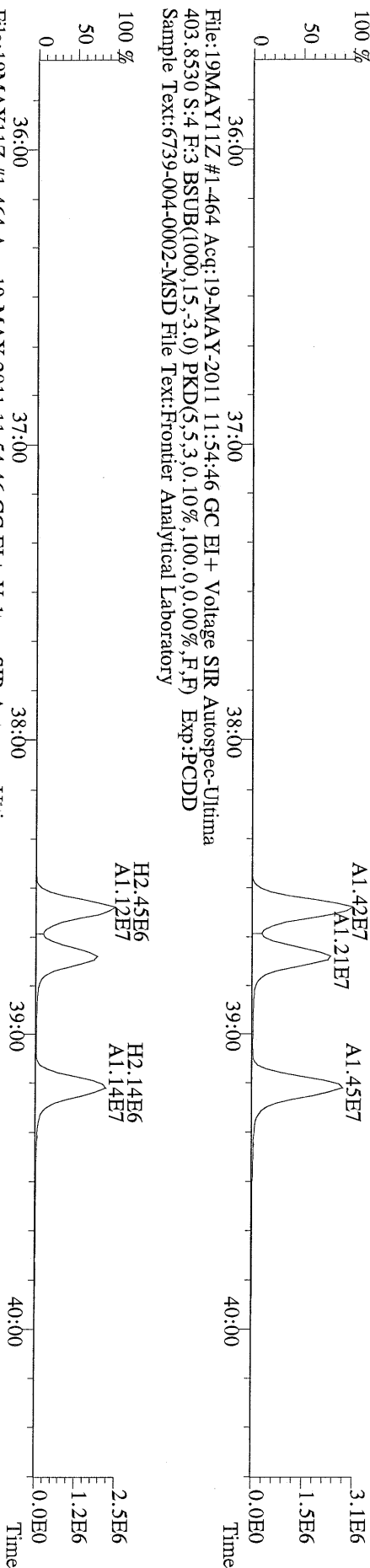
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366.9792 S:4 F:2 Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



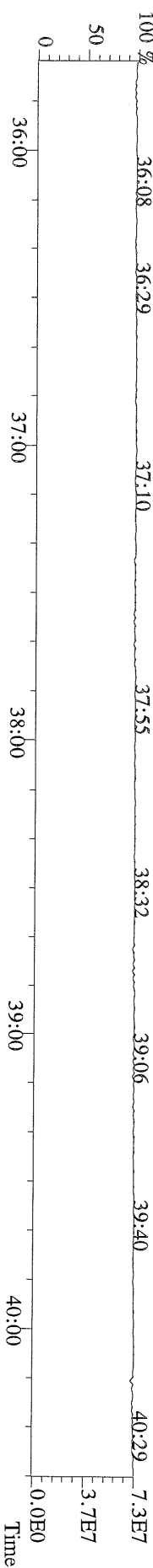
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389.8156 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



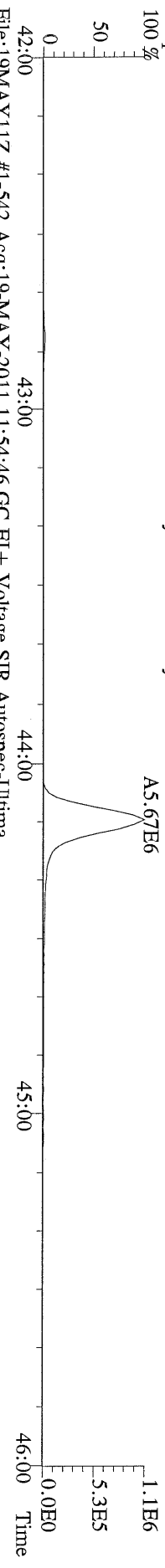
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401.8559 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



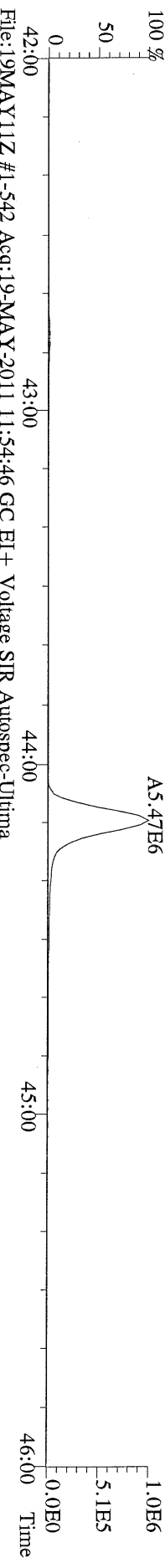
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380.9760 S:4 F:3 Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



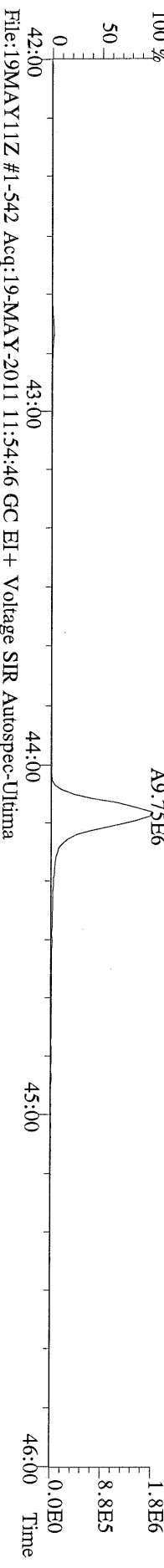
File:19MAYY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



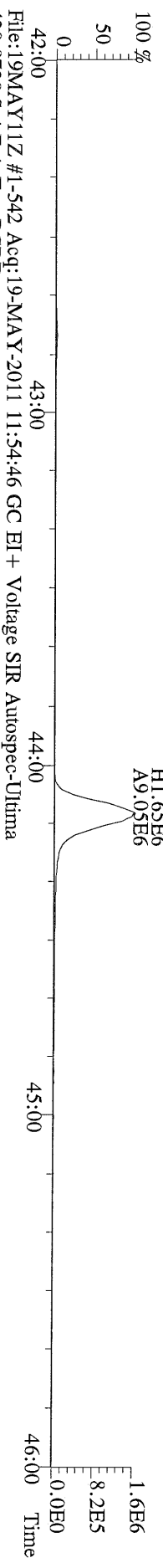
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425.7737 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



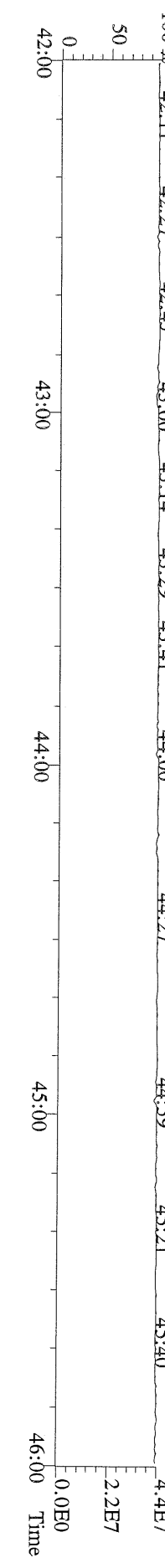
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435.8169 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



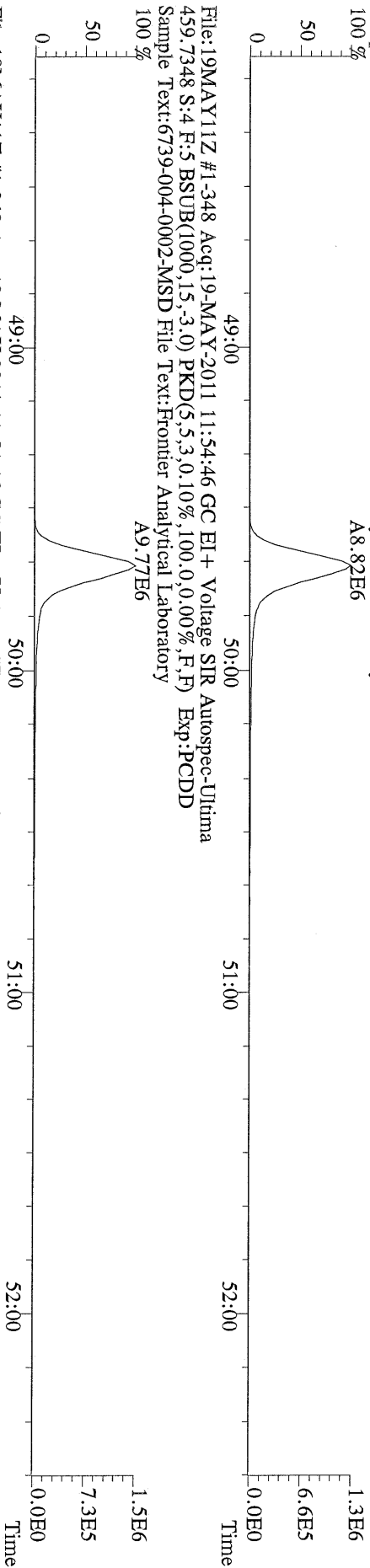
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437.8140 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



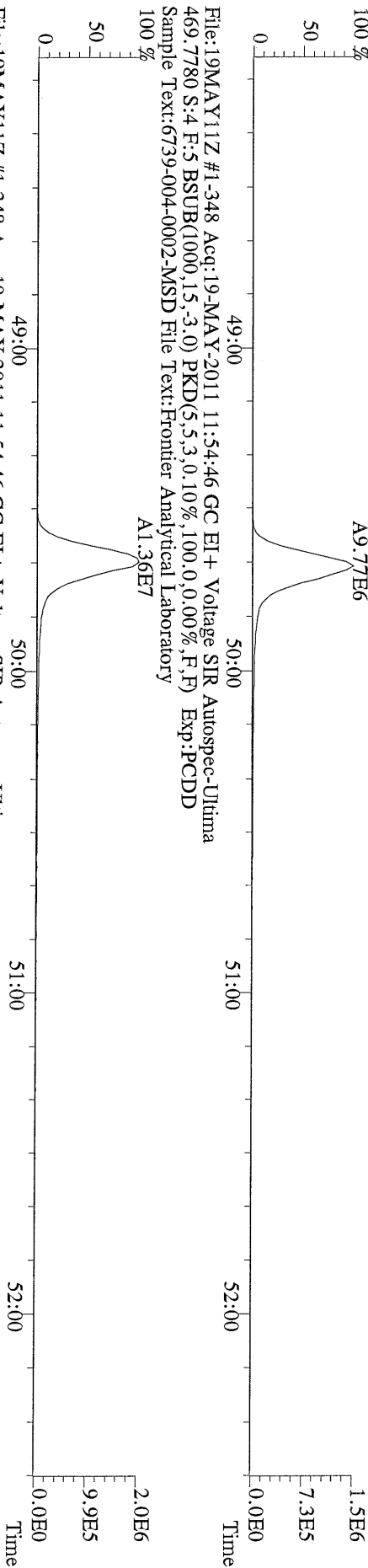
File:19MAYY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:4 F:4 Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100 %



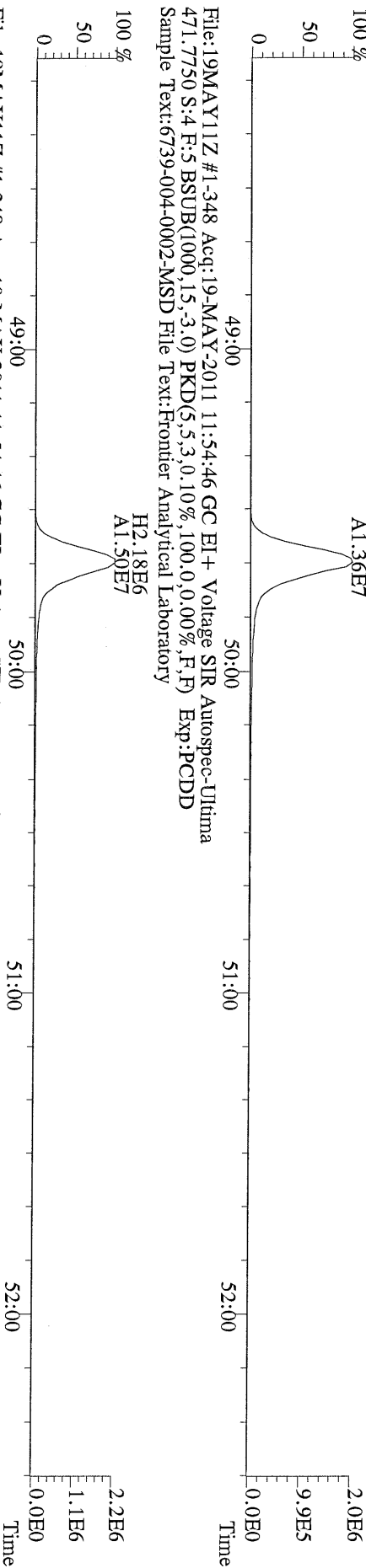
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457.7377 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



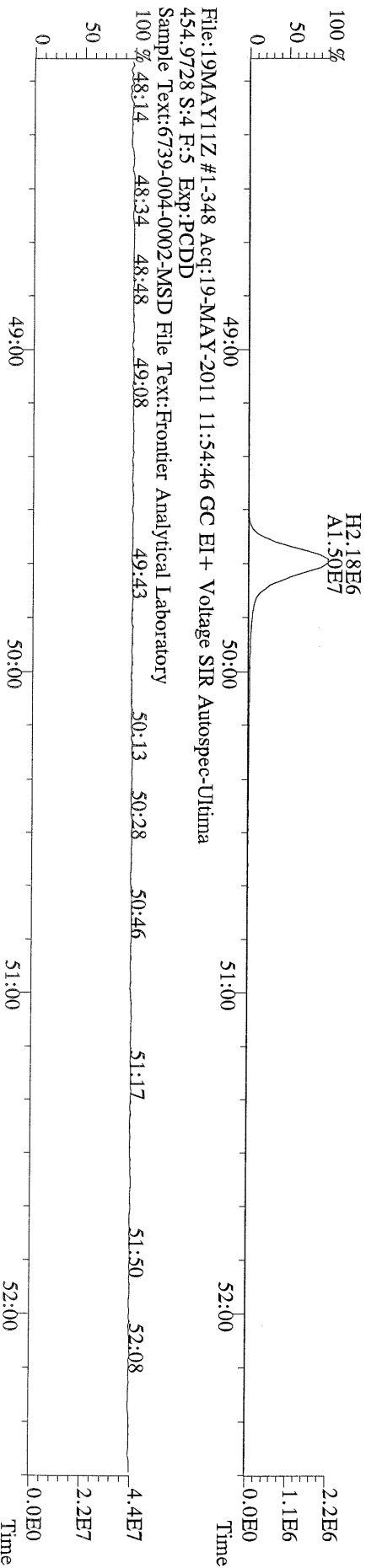
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459.7348 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



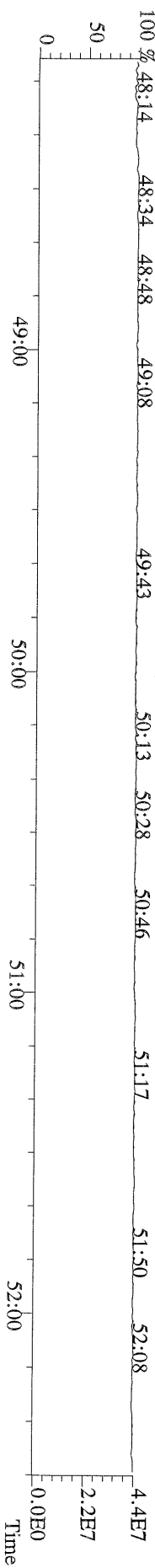
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469.7780 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



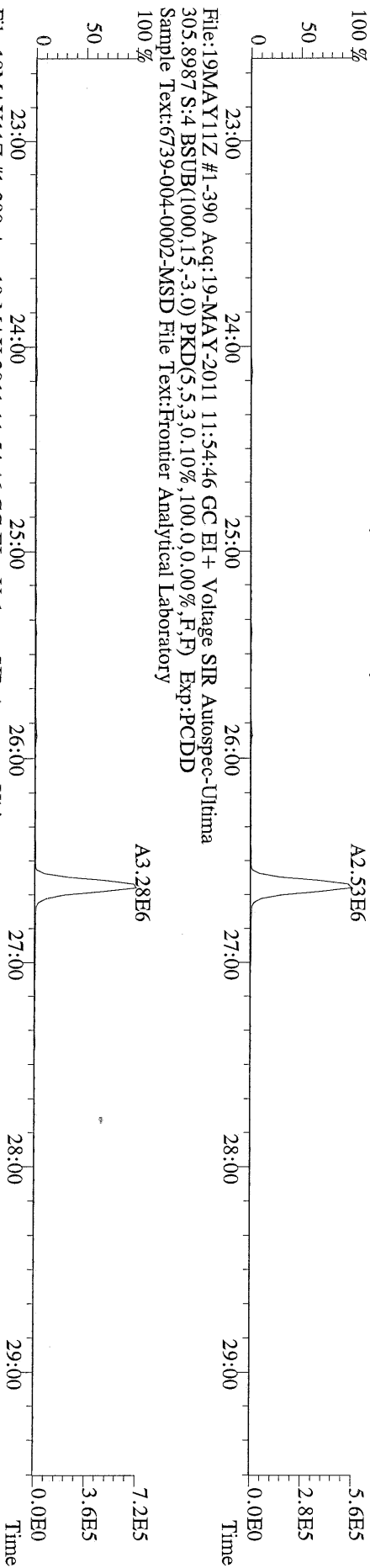
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471.7750 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



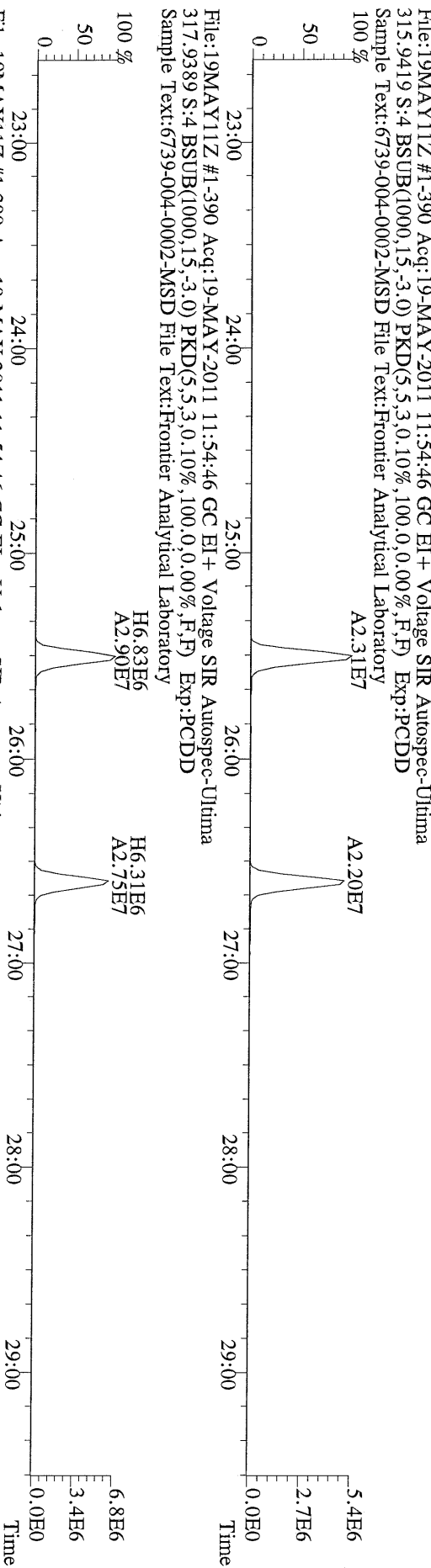
File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:4 F:5 Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



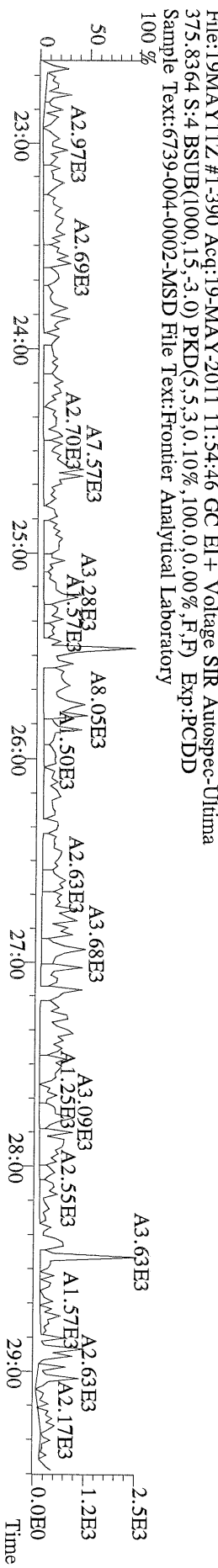
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



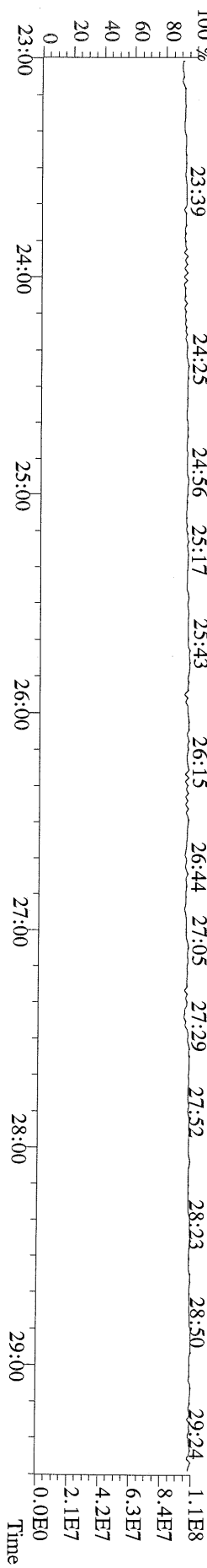
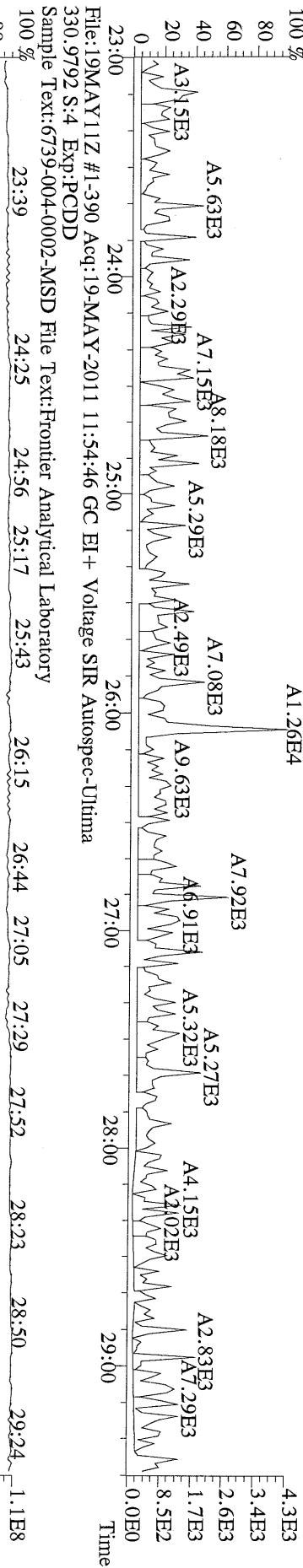
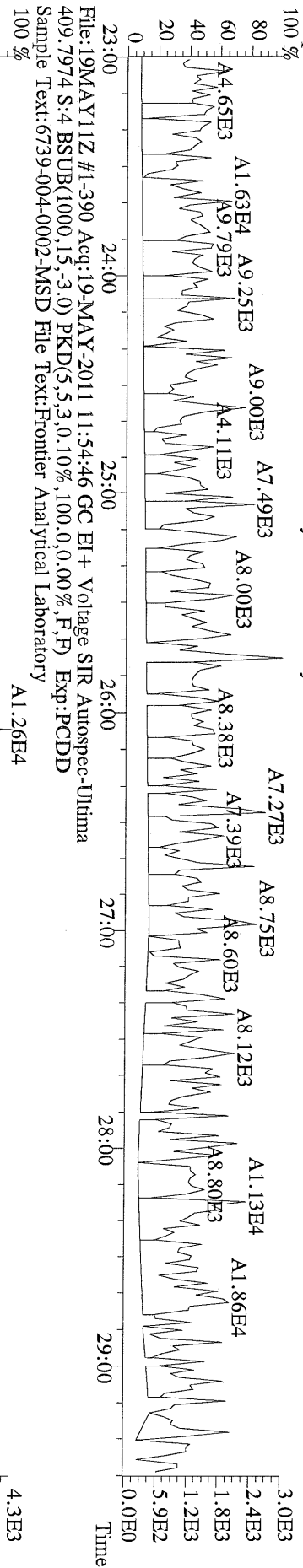
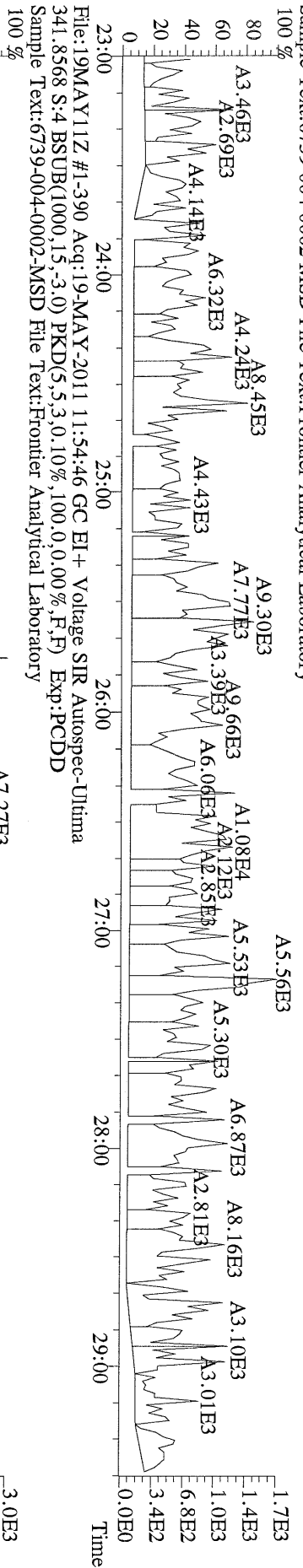
File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-390 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory

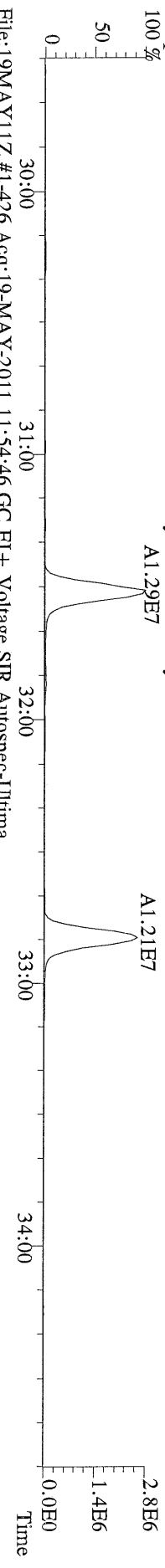


File: 19MAY11Z #1-390 Acq: 19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
 Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory

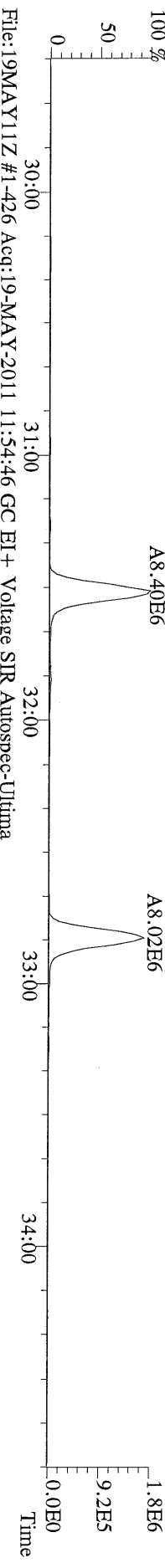


File: 19MAY11Z #1-390 Acq: 19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:4 Exp:PCDD
 Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory

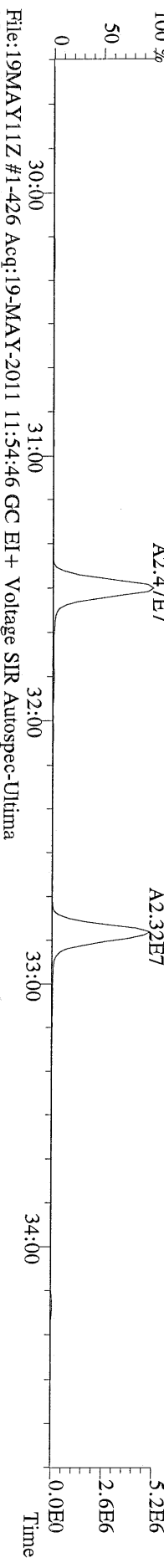
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339.8597 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory



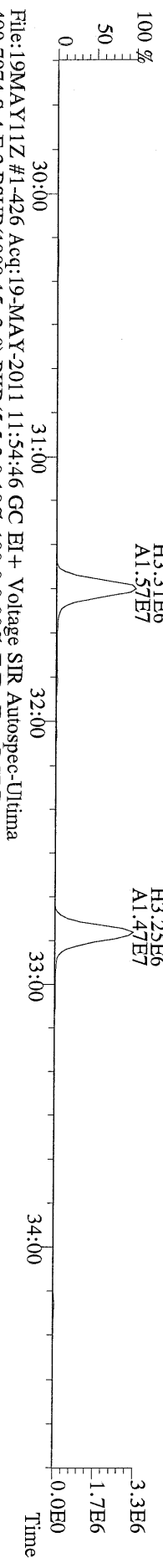
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
341.8568 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory



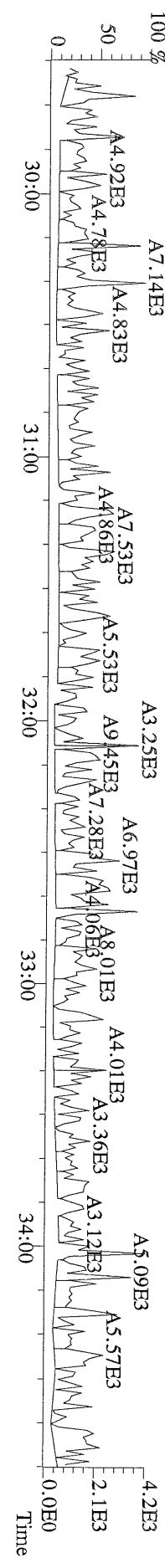
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
351.9000 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory



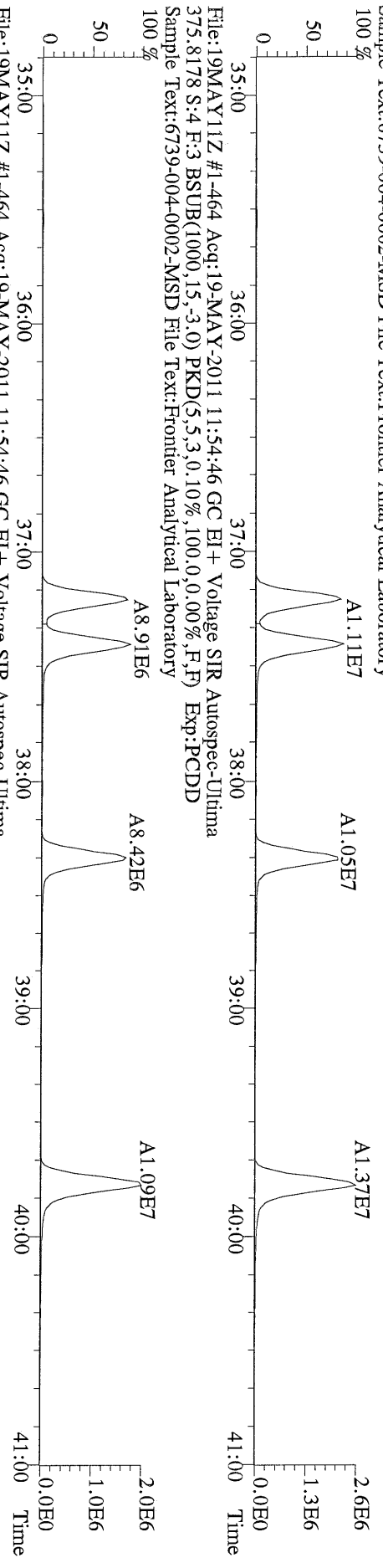
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353.8970 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory



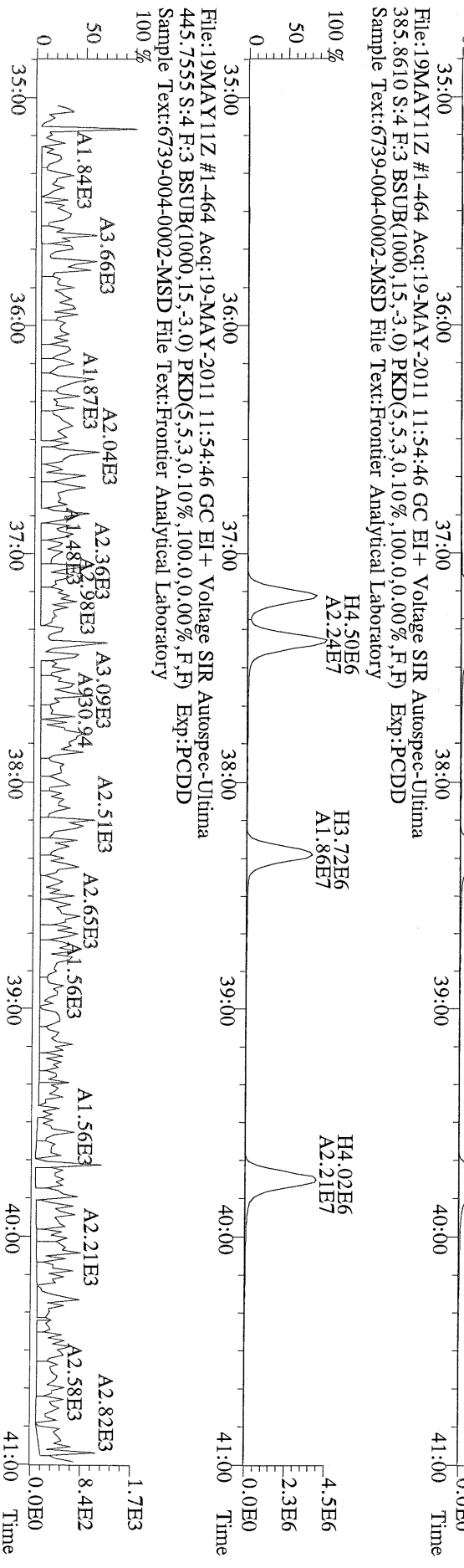
File: 19MAY11Z #1-426 Acq: 19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text: 6739-004-0002-MSD File Text: Frontier Analytical Laboratory



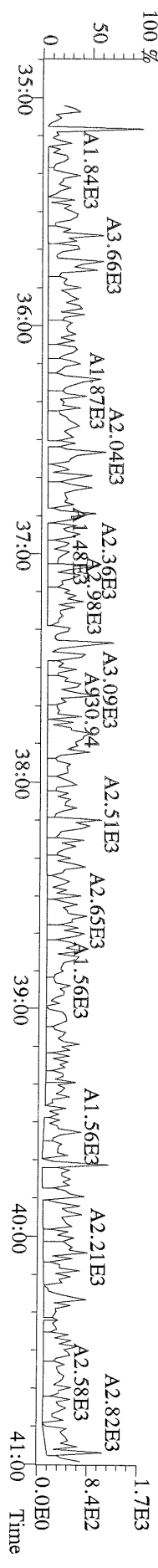
File:19MAY11Z #1-464 Acq:19-MAY-2011 11:54:46 GC EI + Voltage SIR Autospec-Ultima
373.8207 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



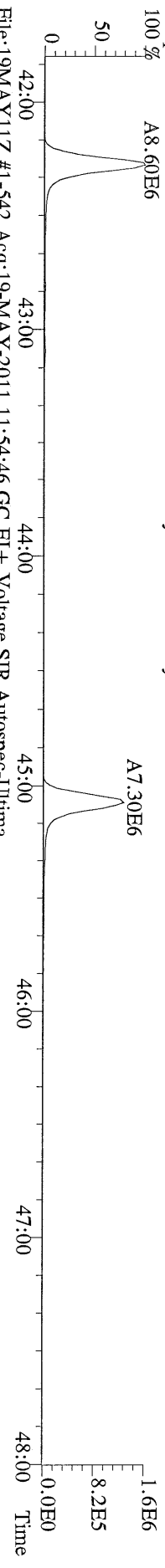
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385.8610 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



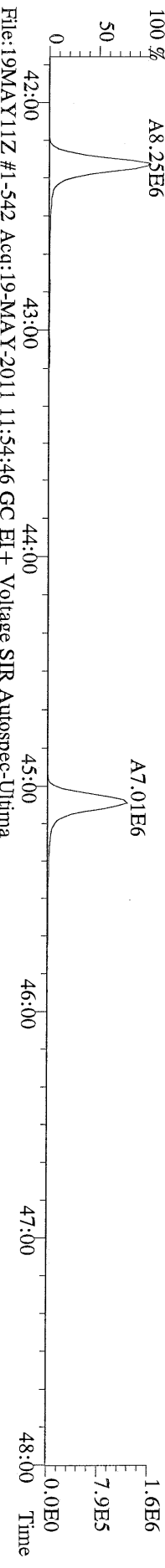
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445.7555 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



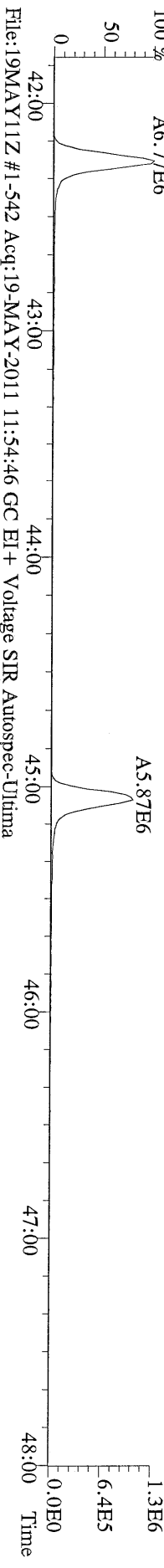
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407.7818 S:4 F:4 B SUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100%



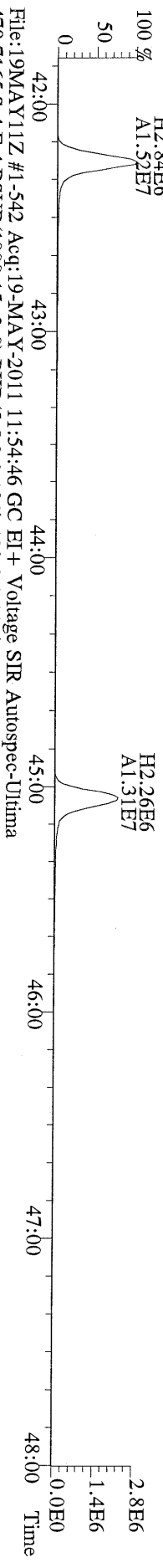
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409.7788 S:4 F:4 B SUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100%



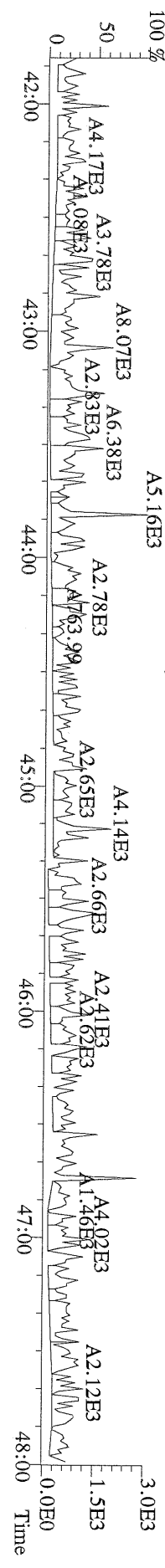
File:19MAY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:4 F:4 B SUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100%



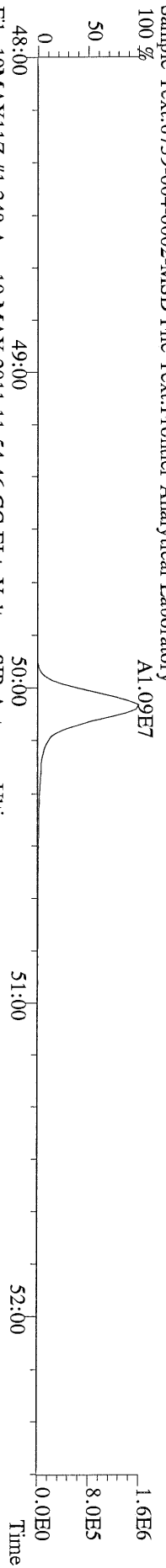
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419.8220 S:4 F:4 B SUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100%



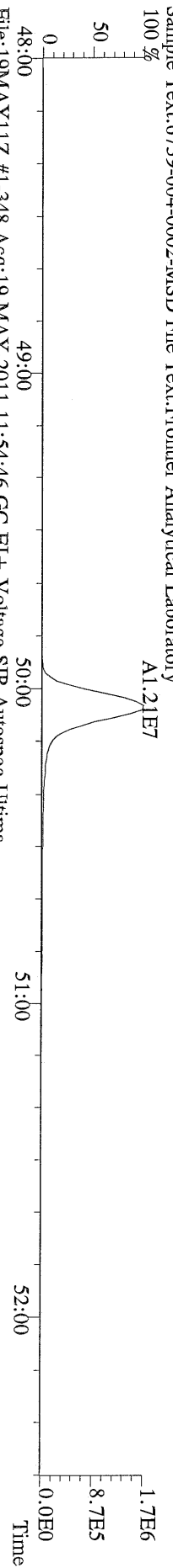
File:19MAY11Z #1-542 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:4 F:4 B SUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory
100%



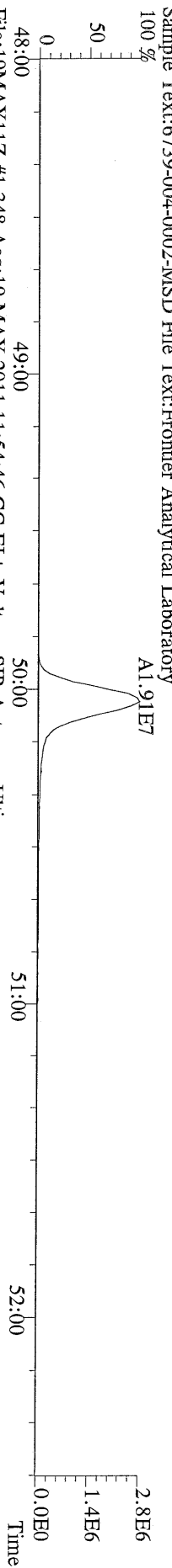
File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



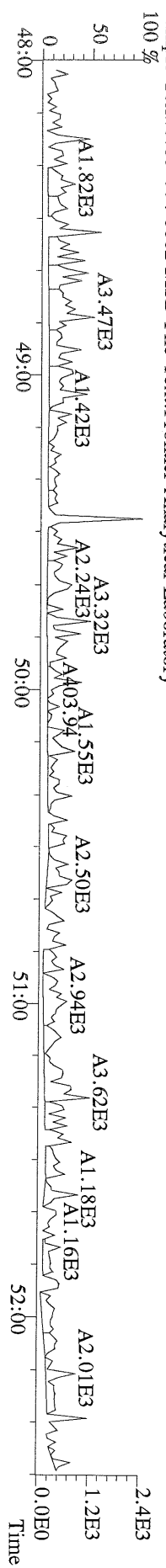
File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-348 Acq:19-MAY-2011 11:54:46 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6739-004-0002-MSD File Text:Frontier Analytical Laboratory



Run #3 Filename 17MAY11Z
Client ID: ST051711Z2

S: 4 Acquired: 17-MAY-11 16:52:43 Cal: PCDDFAL4-5-17-11
Analyte: FAL ID: 1613 CS2 100511I

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1 Unk	2,3,7,8-TCDD	2.00	1.21e+06	0.79 y	27:28	-	1.10 y
2 Unk	1,2,3,7,8-PeCDD	10.00	4.32e+06	1.60 y	33:19	-	0.999 y
3 Unk	1,2,3,4,7,8-HxCDD	10.00	4.27e+06	1.26 y	38:40	-	1.06 y
4 Unk	1,2,3,6,7,8-HxCDD	10.00	4.06e+06	1.28 y	38:50	-	1.10 y
5 Unk	1,2,3,7,8,9-HxCDD	10.00	4.37e+06	1.27 y	39:17	-	1.13 y
6 Unk	1,2,3,4,6,7,8-HpCDD	10.00	2.94e+06	1.09 y	44:14	-	1.01 y
7 Unk	OCDD	20.00	4.62e+06	0.87 y	49:46	-	1.16 y
8 Unk	2,3,7,8-TCDF	2.00	1.61e+06	0.75 y	26:41	-	1.04 y
9 Unk	1,2,3,7,8-PeCDF	10.00	5.57e+06	1.53 y	31:36	-	0.943 y
10 Unk	2,3,4,7,8-PeCDF	10.00	5.47e+06	1.54 y	32:54	-	0.961 y
11 Unk	1,2,3,4,7,8-HxCDF	10.00	4.84e+06	1.25 y	37:17	-	1.17 y
12 Unk	1,2,3,6,7,8-HxCDF	10.00	5.54e+06	1.26 y	37:29	-	1.02 y
13 Unk	2,3,4,6,7,8-HxCDF	10.00	5.24e+06	1.26 y	38:25	-	1.18 y
14 Unk	1,2,3,7,8,9-HxCDF	10.00	6.31e+06	1.22 y	39:51	-	1.25 y
15 Unk	1,2,3,4,6,7,8-HpCDF	10.00	4.19e+06	1.04 y	42:21	-	1.36 y
16 Unk	1,2,3,4,7,8,9-HpCDF	10.00	3.50e+06	0.98 y	45:09	-	1.31 y
17 Unk	OCDF	20.00	5.69e+06	0.90 y	50:10	-	0.967 y
18 IS/RT	13C-2,3,7,8-TCDD	100.00	5.53e+07	0.79 y	27:26	-	1.01 y
19 IS	13C-1,2,3,7,8-PeCDD	100.00	4.32e+07	1.56 y	33:18	-	0.793 y
20 IS	13C-1,2,3,4,7,8-HxCDD	100.00	4.04e+07	1.25 y	38:39	-	1.04 y
21 IS	13C-1,2,3,6,7,8-HxCDD	100.00	3.68e+07	1.25 y	38:49	-	0.950 y
22 IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.91e+07	1.05 y	44:13	-	0.751 y
23 IS	13C-OCDD	200.00	3.97e+07	0.93 y	49:46	-	0.512 y
24 IS	13C-2,3,7,8-TCDF	100.00	7.75e+07	0.79 y	26:40	-	1.01 y
25 IS	13C-1,2,3,7,8-PeCDF	100.00	5.91e+07	1.58 y	31:34	-	0.771 y
26 IS	13C-2,3,4,7,8-PeCDF	100.00	5.69e+07	1.54 y	32:53	-	0.742 y
27 IS	13C-1,2,3,4,7,8-HxCDF	100.00	4.12e+07	0.52 y	37:15	-	1.06 y
28 IS	13C-1,2,3,6,7,8-HxCDF	100.00	5.41e+07	0.51 y	37:28	-	1.39 y
29 IS	13C-2,3,4,6,7,8-HxCDF	100.00	4.45e+07	0.52 y	38:23	-	1.15 y
30 IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.03e+07	0.52 y	39:50	-	1.30 y
31 IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.09e+07	0.44 y	42:19	-	0.796 y
32 IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.67e+07	0.45 y	45:08	-	0.688 y
33 IS	13C-OCDF	200.00	5.88e+07	0.89 y	50:08	-	0.759 y
34 C/Up	37Cl-2,3,7,8-TCDD	2.00	7.40e+05		27:27	-	0.679 y
35 RS	13C-1,2,3,4-TCDD	100.00	5.45e+07	0.80 y	26:52	5.45e+05	- n
36 RS	13C-1,2,3,4-TCDF	100.00	7.67e+07	0.79 y	25:35	7.67e+05	- n
37 RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	3.88e+07	1.26 y	39:15	3.88e+05	- n
38 Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.10 y
39 Tot	Total Penta-Dioxins	0.00	-	- n	-	-	0.999 y
40 Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.10 y
41 Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.01 y
42 Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.04 y
43 Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.952 y
44 Tot	Total Penta-Furans	0.00	-	- n	-	-	0.952 y
45 Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.15 y
46 Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.34 y

Analyst: 8

Date: 5/18/11

Run #6 Filename 17MAY11Z
Client ID: ST05171125

S: 6 Acquired: 17-MAY-11 18:42:17
Analyte: PCDDFAL3-5-17-11

Cal: PCDDFAL4-5-17-11
FAL ID: 1613 CS5 100511L

Typ	Name	Amount	Resp	RA	RT	RF	RRF
1 Unk	2,3,7,8-TCDD	200.00	1.10e+08	0.78 y	27:28	-	1.08 y
2 Unk	1,2,3,7,8-PeCDD	1000.00	4.22e+08	1.56 y	33:20	-	1.04 y
3 Unk	1,2,3,4,7,8-HxCDD	1000.00	4.44e+08	1.23 y	38:40	-	1.10 y
4 Unk	1,2,3,6,7,8-HxCDD	1000.00	3.78e+08	1.23 y	38:50	-	1.08 y
5 Unk	1,2,3,7,8,9-HxCDD	1000.00	4.35e+08	1.25 y	39:17	-	1.15 y
6 Unk	1,2,3,4,6,7,8-HpCDD	1000.00	3.01e+08	1.05 y	44:15	-	1.06 y
7 Unk	OCDD	2000.00	4.82e+08	0.90 y	49:48	-	1.22 y
8 Unk	2,3,7,8-TCDF	200.00	1.46e+08	0.77 y	26:42	-	1.06 y
9 Unk	1,2,3,7,8-PeCDF	1000.00	5.36e+08	1.55 y	31:36	-	0.965 y
10 Unk	2,3,4,7,8-PeCDF	1000.00	5.21e+08	1.56 y	32:54	-	0.958 y
11 Unk	1,2,3,4,7,8-HxCDF	1000.00	4.63e+08	1.24 y	37:18	-	1.18 y
12 Unk	1,2,3,6,7,8-HxCDF	1000.00	5.18e+08	1.24 y	37:29	-	1.05 y
13 Unk	2,3,4,6,7,8-HxCDF	1000.00	4.86e+08	1.23 y	38:25	-	1.19 y
14 Unk	1,2,3,7,8,9-HxCDF	1000.00	6.62e+08	1.24 y	39:51	-	1.32 y
15 Unk	1,2,3,4,6,7,8-HpCDF	1000.00	4.31e+08	1.01 y	42:22	-	1.39 y
16 Unk	1,2,3,4,7,8,9-HpCDF	1000.00	3.66e+08	1.04 y	45:09	-	1.36 y
17 Unk	OCDF	2000.00	6.00e+08	0.90 y	50:10	-	0.988 y
18 IS/RT	13C-2,3,7,8-TCDD	100.00	5.09e+07	0.79 y	27:26	-	0.950 y
19 IS	13C-1,2,3,7,8-PeCDD	100.00	4.07e+07	1.55 y	33:18	-	0.759 y
20 IS	13C-1,2,3,4,7,8-HxCDD	100.00	4.04e+07	1.27 y	38:40	-	1.01 y
21 IS	13C-1,2,3,6,7,8-HxCDD	100.00	3.49e+07	1.25 y	38:49	-	0.870 y
22 IS	13C-1,2,3,4,6,7,8-HpCDD	100.00	2.84e+07	1.06 y	44:14	-	0.708 y
23 IS	13C-OCDD	200.00	3.95e+07	0.90 y	49:47	-	0.492 y
24 IS	13C-2,3,7,8-TCDF	100.00	6.90e+07	0.80 y	26:40	-	0.930 y
25 IS	13C-1,2,3,7,8-PeCDF	100.00	5.56e+07	1.57 y	31:35	-	0.749 y
26 IS	13C-2,3,4,7,8-PeCDF	100.00	5.43e+07	1.60 y	32:53	-	0.732 y
27 IS	13C-1,2,3,4,7,8-HxCDF	100.00	3.91e+07	0.52 y	37:16	-	0.974 y
28 IS	13C-1,2,3,6,7,8-HxCDF	100.00	4.92e+07	0.53 y	37:28	-	1.23 y
29 IS	13C-2,3,4,6,7,8-HxCDF	100.00	4.10e+07	0.51 y	38:24	-	1.02 y
30 IS	13C-1,2,3,7,8,9-HxCDF	100.00	5.03e+07	0.52 y	39:50	-	1.25 y
31 IS	13C-1,2,3,4,6,7,8-HpCDF	100.00	3.11e+07	0.44 y	42:20	-	0.775 y
32 IS	13C-1,2,3,4,7,8,9-HpCDF	100.00	2.69e+07	0.44 y	45:09	-	0.669 y
33 IS	13C-OCDF	200.00	6.07e+07	0.90 y	50:10	-	0.756 y
34 C/Up	37Cl-2,3,7,8-TCDD	200.00	6.98e+07		27:28	-	0.650 y
35 RS	13C-1,2,3,4-TCDD	100.00	5.36e+07	0.81 y	26:52	5.36e+05	- n
36 RS	13C-1,2,3,4-TCDF	100.00	7.42e+07	0.79 y	25:36	7.42e+05	- n
37 RS/RT	13C-1,2,3,7,8,9-HxCDD	100.00	4.01e+07	1.23 y	39:16	4.01e+05	- n
38 Tot	Total Tetra-Dioxins	0.00	-	- n	-	-	1.08 y
39 Tot	Total Penta-Dioxins	0.00	-	- n	-	-	1.04 y
40 Tot	Total Hexa-Dioxins	0.00	-	- n	-	-	1.11 y
41 Tot	Total Hepta-Dioxins	0.00	-	- n	-	-	1.06 y
42 Tot	Total Tetra-Furans	0.00	-	- n	-	-	1.06 y
43 Tot	1st Fn. Tot Penta-Furans	0.00	-	- n	-	-	0.962 y
44 Tot	Total Penta-Furans	0.00	-	- n	-	-	0.962 y
45 Tot	Total Hexa-Furans	0.00	-	- n	-	-	1.18 y
46 Tot	Total Hepta-Furans	0.00	-	- n	-	-	1.37 y

Analyst: 6

Date: 5/18/11

USEPA - ITD

FORM 3B

PCDD/PCDF INITIAL CALIBRATION RELATIVE RESPONSES

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4 GC Column ID: DB5

CS0 Data Filename: 17MAY11Z S2 CS4 Data Filename: 17MAY11Z S1

CS1 Data Filename: 17MAY11Z S3 CS4 Data Filename: 17MAY11Z S5

CS2 Data Filename: 17MAY11Z S4 CS5 Data Filename: 17MAY11Z S6

Labeled Compounds	RELATIVE RESPONSE (RR)						MEAN RR	Cv (%RSD)
	CS1	CS2	CS3	CS4	CS5	CS6		
13C-2,3,7,8-TCDD	0.98	1.00	1.01	1.02	0.97	0.95	0.99	2.60
13C-1,2,3,7,8-PeCDD	0.81	0.77	0.79	0.85	0.77	0.76	0.79	4.42
13C-1,2,3,4,7,8-HxCDD	1.03	1.02	1.04	1.05	1.03	1.01	1.03	1.53
13C-1,2,3,6,7,8-HxCDD	0.99	0.99	0.95	1.00	0.94	0.87	0.96	5.06
13C-1,2,3,4,6,7,8-HpCDD	0.74	0.76	0.75	0.79	0.74	0.71	0.75	3.56
13C-OCDD	0.50	0.47	0.51	0.53	0.52	0.49	0.50	3.82
13C-2,3,7,8-TCDF	0.98	0.99	1.01	1.02	0.95	0.93	0.98	3.36
13C-1,2,3,7,8-PeCDF	0.80	0.76	0.77	0.82	0.76	0.75	0.78	3.56
13C-2,3,4,7,8-PeCDF	0.78	0.74	0.74	0.79	0.73	0.73	0.75	3.55
13C-1,2,3,4,7,8-HxCDF	1.09	1.05	1.06	1.10	1.04	0.97	1.05	4.27
13C-1,2,3,6,7,8-HxCDF	1.49	1.41	1.39	1.50	1.37	1.23	1.40	7.09
13C-2,3,4,6,7,8-HxCDF	1.24	1.20	1.15	1.20	1.13	1.02	1.16	6.73
13C-1,2,3,7,8,9-HxCDF	1.30	1.31	1.30	1.33	1.28	1.25	1.30	2.05
13C-1,2,3,4,6,7,8-HpCDF	0.82	0.87	0.80	0.89	0.79	0.78	0.83	5.74
13C-1,2,3,4,7,8,9-HpCDF	0.67	0.70	0.69	0.75	0.68	0.67	0.69	4.06
13C-OCDF	0.75	0.74	0.76	0.83	0.79	0.76	0.77	4.37
CLEANUP STANDARD								
37Cl-2,3,7,8-TCDD	0.82	0.77	0.68	0.70	0.65	0.65	0.71	9.70

Analyst: 8Date: 5/18/11

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: 5/17/11

Instrument ID: FAL4 GC Column ID: DB5

CS0 Data Filename: 17MAY11Z S2 CS3 Data Filename: 17MAY11Z S1

CS1 Data Filename: 17MAY11Z S3 CS4 Data Filename: 17MAY11Z S5

CS2 Data Filename: 17MAY11Z S4 CS5 Data Filename: 17MAY11Z S6

NATIVE ANALYTES	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
2,3,7,8-TCDD	M/M+2	0.76	0.86	0.79	0.79	0.79	0.78	0.65-0.89
1,2,3,7,8-PeCDD	M+2/M+4	1.65	1.58	1.60	1.57	1.55	1.56	1.32-1.78
1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.26	1.26	1.25	1.25	1.23	1.05-1.43
1,2,3,6,7,8-HxCDD	M+2/M+4	1.30	1.32	1.28	1.27	1.27	1.23	1.05-1.43
1,2,3,7,8,9-HxCDD	M+2/M+4	1.19	1.25	1.27	1.28	1.26	1.25	1.05-1.43
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	1.09	1.09	1.04	1.03	1.05	0.88-1.20
OCDD	M+2/M+4	0.90	0.89	0.87	0.85	0.92	0.90	0.76-1.02
2,3,7,8-TCDF	M/M+2	0.74	0.68	0.75	0.76	0.76	0.77	0.65-0.89
1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.44	1.53	1.57	1.57	1.55	1.32-1.78
2,3,4,7,8-PeCDF	M+2/M+4	1.46	1.56	1.54	1.53	1.57	1.56	1.32-1.78
1,2,3,4,7,8-HxCDF	M+2/M+4	1.23	1.19	1.25	1.27	1.24	1.24	1.05-1.43
1,2,3,6,7,8-HxCDF	M+2/M+4	1.17	1.28	1.26	1.27	1.24	1.24	1.05-1.43
2,3,4,6,7,8-HxCDF	M+2/M+4	1.23	1.28	1.26	1.26	1.24	1.23	1.05-1.43
1,2,3,7,8,9-HxCDF	M+2/M+4	1.25	1.24	1.22	1.26	1.25	1.24	1.05-1.43
1,2,3,4,6,7,8-HpCDF	M+2/M+4	0.96	1.04	1.04	1.04	1.02	1.01	0.88-1.20
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	1.00	0.98	1.02	1.00	1.04	0.88-1.20
OCDF	M+2/M+4	0.87	0.86	0.90	0.91	0.91	0.90	0.76-1.02

Analyst: 

Date: 5/18/11

USEPA - ITD

FORM 3D
PCDD/PCDF INITIAL CALIBRATION ION ABUNDANCE RATIOS

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4 GC Column ID: DB5

CS0 Data Filename: 17MAY11Z S2 CS3 Data Filename: 17MAY11Z S1

CS1 Data Filename: 17MAY11Z S3 CS4 Data Filename: 17MAY11Z S5

CS2 Data Filename: 17MAY11Z S4 CS5 Data Filename: 17MAY11Z S6

Labeled Compounds	M/Z'S FORMING RATIO	ION ABUNDANCE RATIOS						QC LIMITS
		CS1	CS2	CS3	CS4	CS5	CS6	
13C-2,3,7,8-TCDD	M/M+2	0.78	0.80	0.79	0.80	0.80	0.79	0.65-0.89
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.55	1.56	1.57	1.58	1.55	1.32-1.78
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.25	1.25	1.25	1.25	1.25	1.27	1.05-1.43
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.26	1.25	1.26	1.25	1.25	1.05-1.43
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	1.06	1.05	1.07	1.08	1.06	0.88-1.20
13C-OCDD	M+2/M+4	0.93	0.89	0.93	0.96	0.85	0.90	0.76-1.02
13C-2,3,7,8-TCDF	M/M+2	0.80	0.81	0.79	0.81	0.79	0.80	0.65-0.89
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.57	1.57	1.58	1.58	1.57	1.57	1.32-1.78
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.57	1.58	1.54	1.53	1.58	1.60	1.32-1.78
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.53	0.52	0.52	0.52	0.52	0.43-0.59
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.51	0.51	0.53	0.52	0.53	0.43-0.59
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.52	0.52	0.52	0.53	0.52	0.51	0.43-0.59
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.53	0.52	0.52	0.52	0.52	0.52	0.43-0.59
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.43	0.44	0.44	0.44	0.43	0.44	0.37-0.51
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.45	0.45	0.43	0.43	0.44	0.37-0.51
13C-OCDF	M+2/M+4	0.91	0.91	0.89	0.89	0.89	0.90	0.76-1.02

Analyst: 

Date: 5/18/11

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL4 Initial Calibration Date: 5/17/11
RT Window Data Filename: 17MAY11Z Sam:1 Analysis Date: 17-MAY-11 Time: 14:07:21
DB-5 IS Data Filename: 17MAY11Z Sam:1 Analysis Date: 17-MAY-11 Time: 14:07:21
DB-225 IS Data Filename: Analysis Date: Time:

DB-5 RT WINDOW DEFINING STANDARDS RESULTS

ISOMERS	ABSOLUTE RT	ISOMERS	ABSOLUTE RT
1,3,6,8-TCDD (F)	24:25	1,3,6,8-TCDF (F)	23:02
1,2,8,9-TCDD (L)	28:25	1,2,8,9-TCDF (L)	28:38
1,2,4,7,9-PeCDD (F)	30:21	1,3,4,6,8-PeCDF (F)	28:29
1,2,3,8,9-PeCDD (L)	33:53	1,2,3,8,9-PeCDF (L)	34:19
1,2,4,6,7,9-HxCDD (F)	36:13	1,2,3,4,6,8-HxCDF (F)	35:20
1,2,3,7,8,9-HxCDD (L)	39:16	1,2,3,7,8,9-HxCDF (L)	39:50
1,2,3,4,6,7,9-HpCDD (F)	42:51	1,2,3,4,6,7,8-HpCDF (F)	42:20
1,2,3,4,6,7,8-HpCDD (L)	44:14	1,2,3,4,7,8,9-HpCDF (L)	45:08

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

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

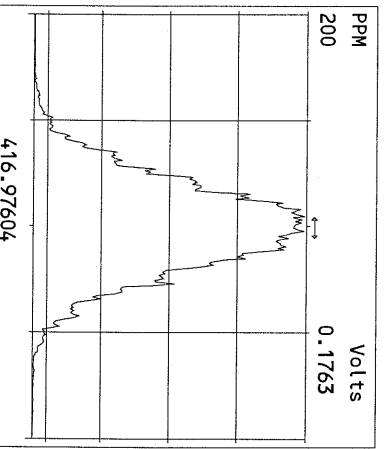
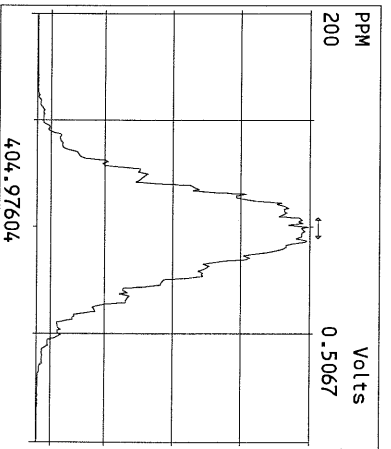
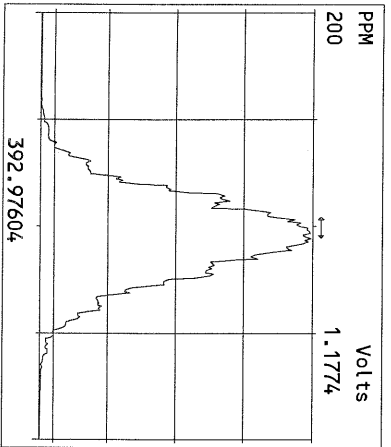
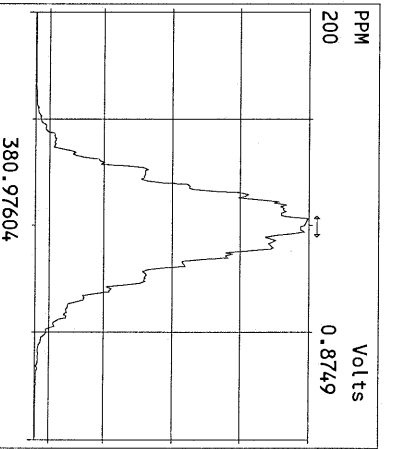
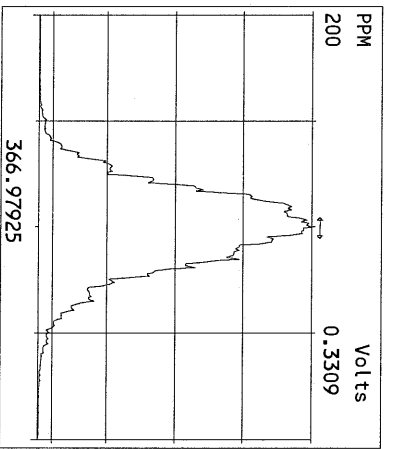
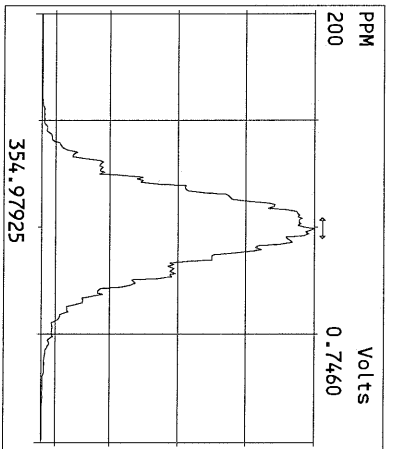
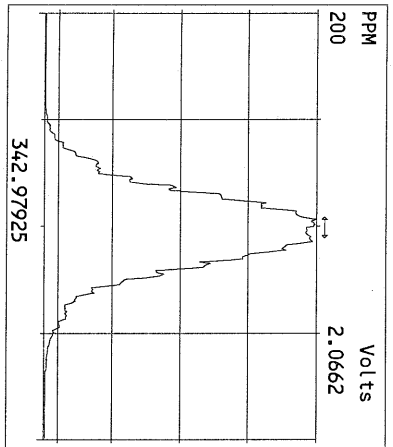
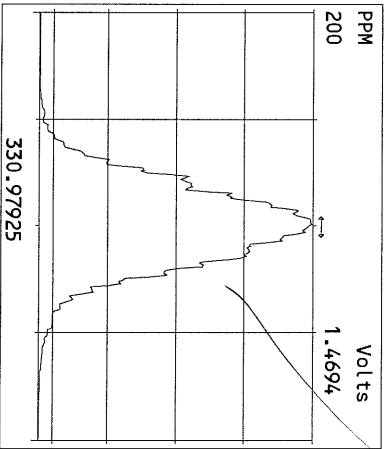
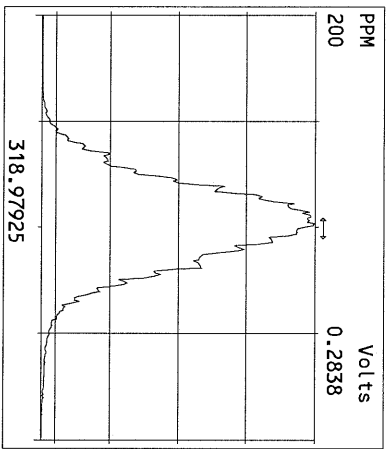
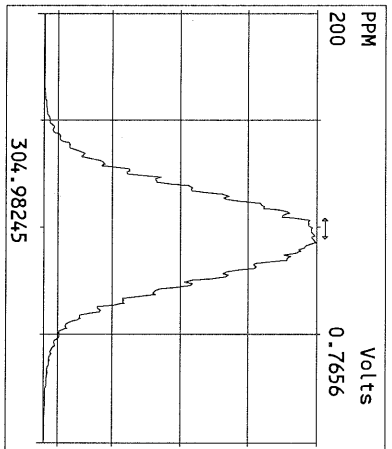
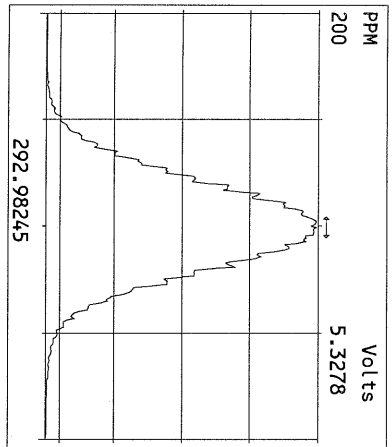
% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

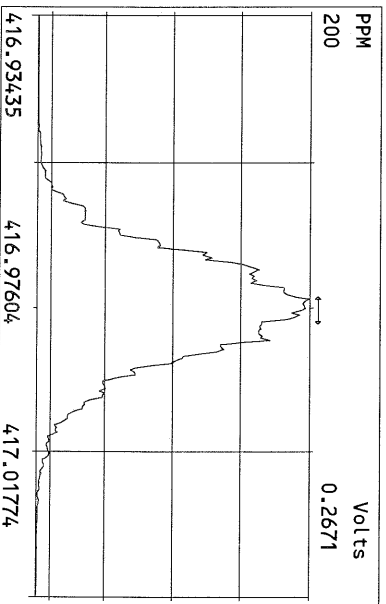
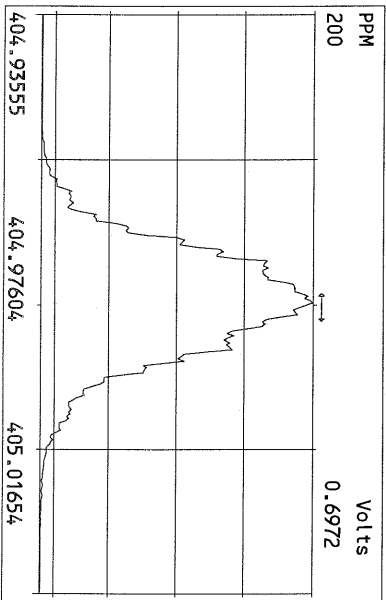
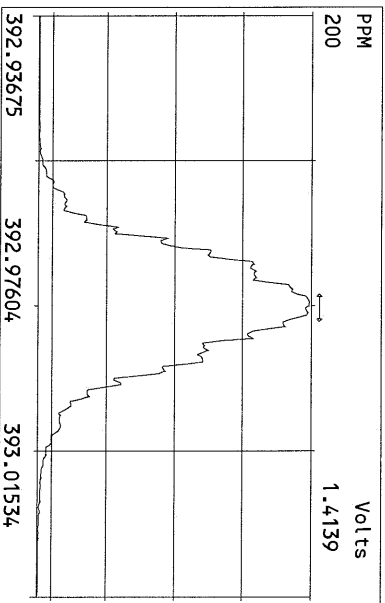
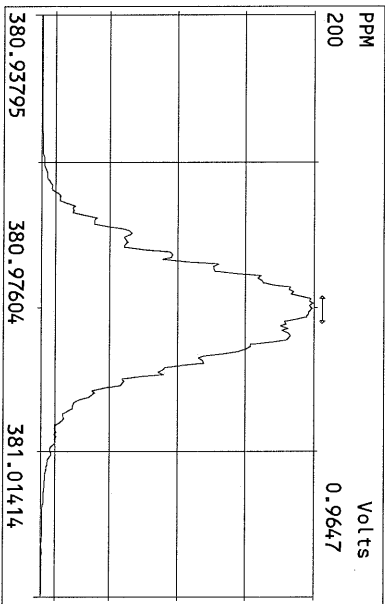
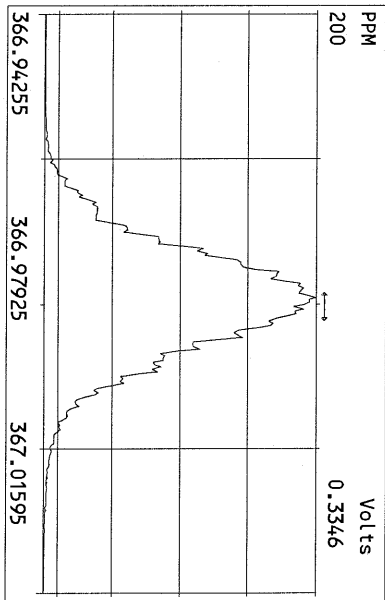
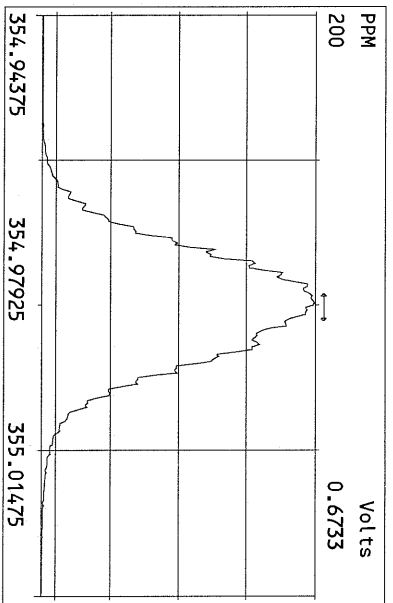
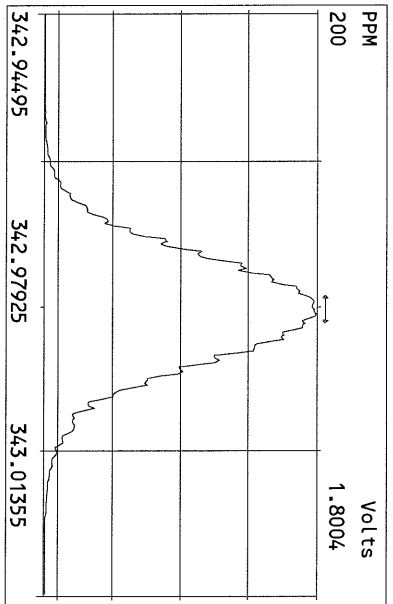
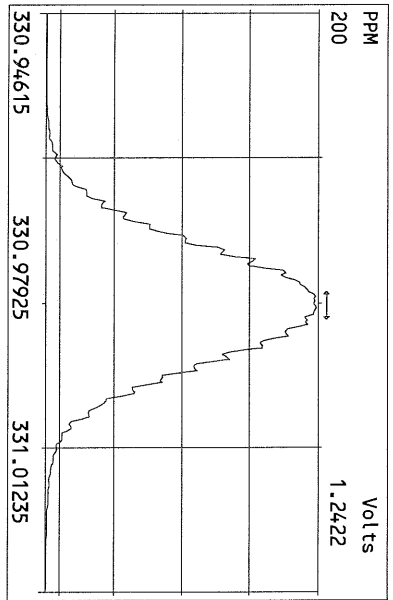
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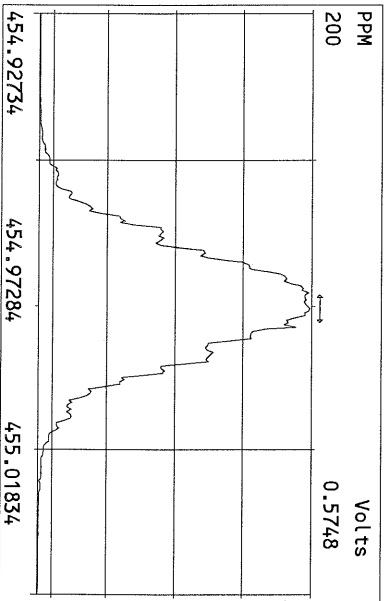
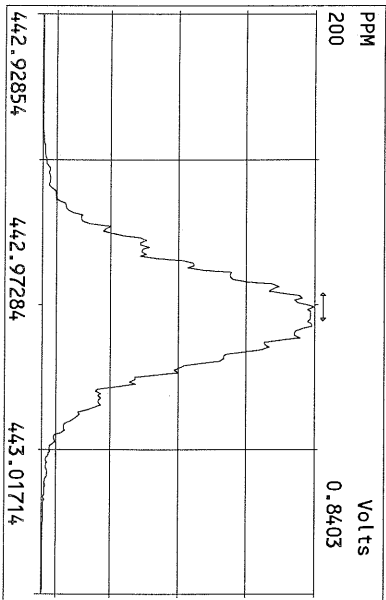
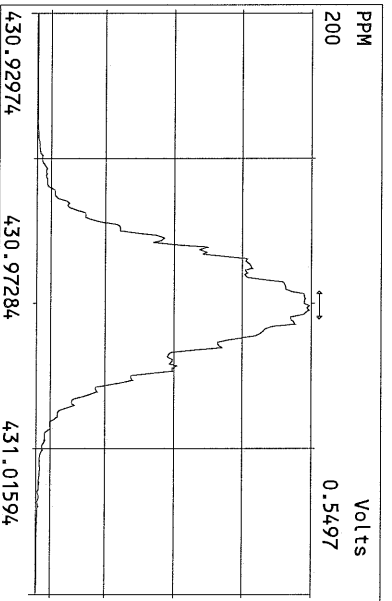
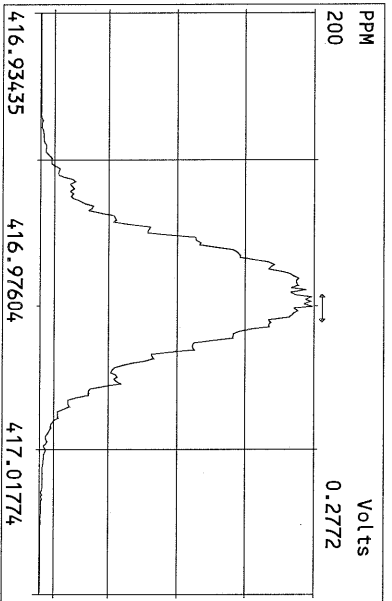
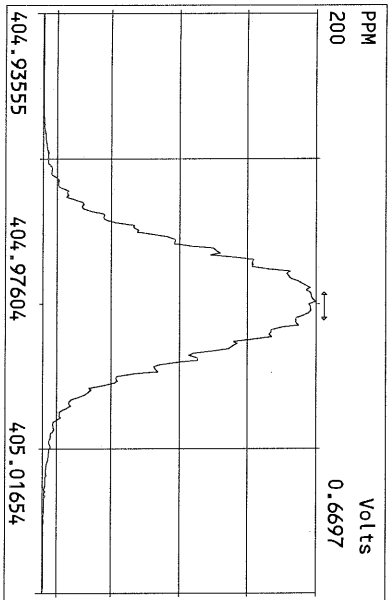
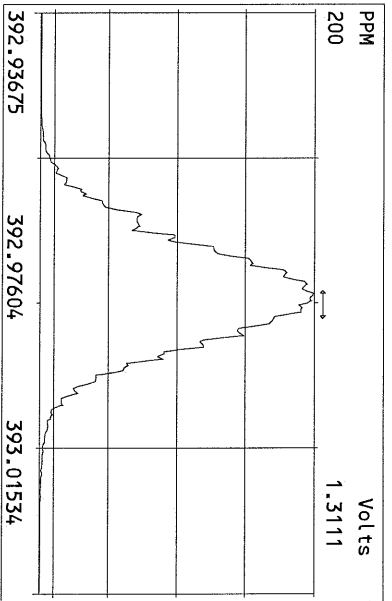
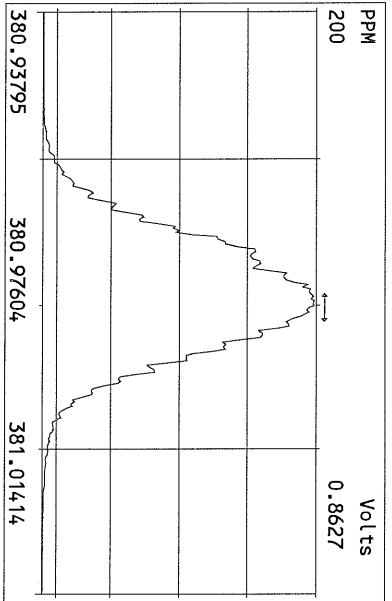
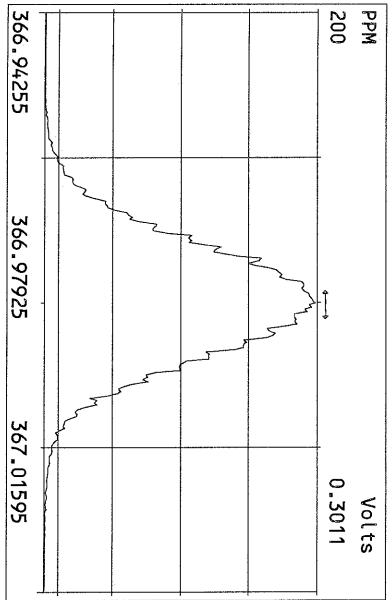
(1) To meet contract requirement, %Valley Height Between Compared Peaks shall not exceed 25% (section 15.4.2.2, Method 1613).

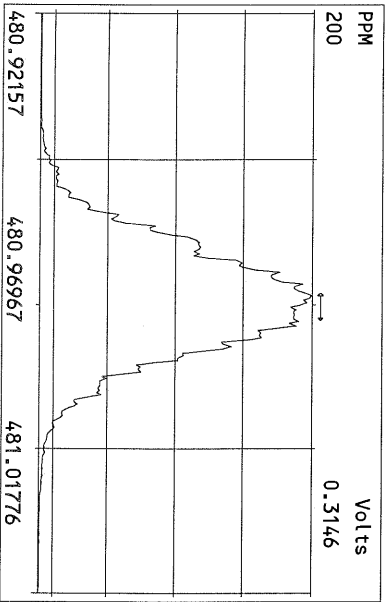
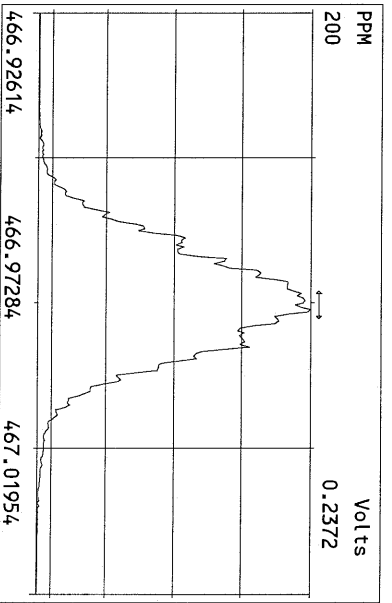
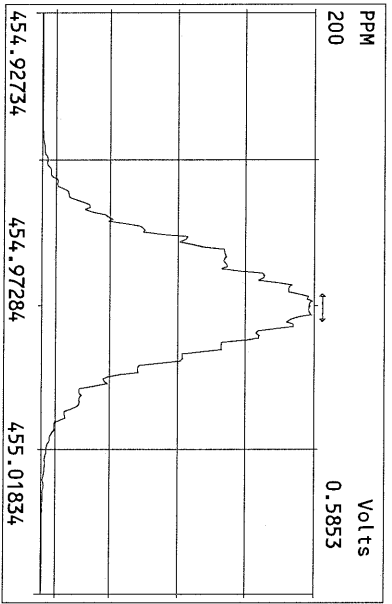
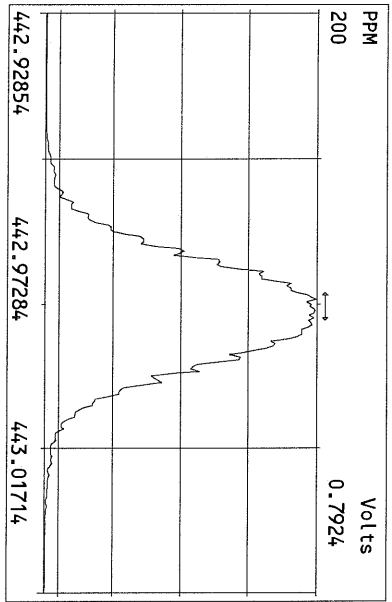
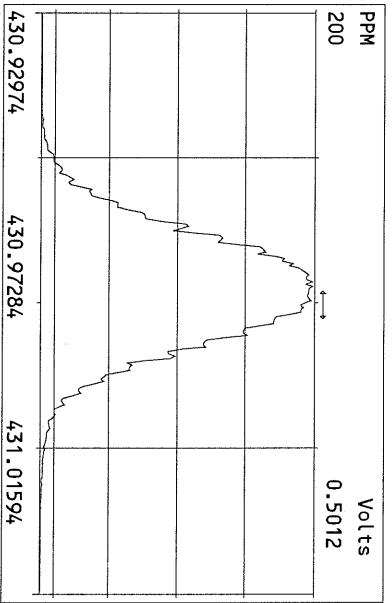
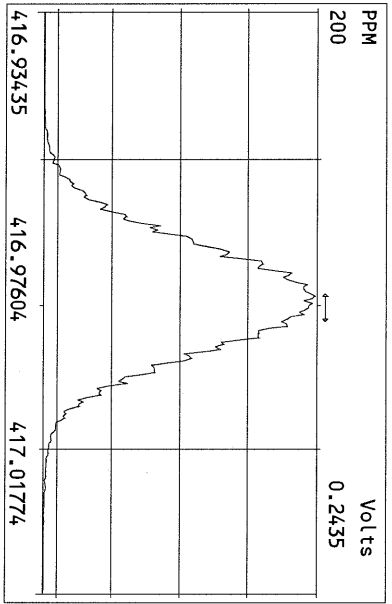
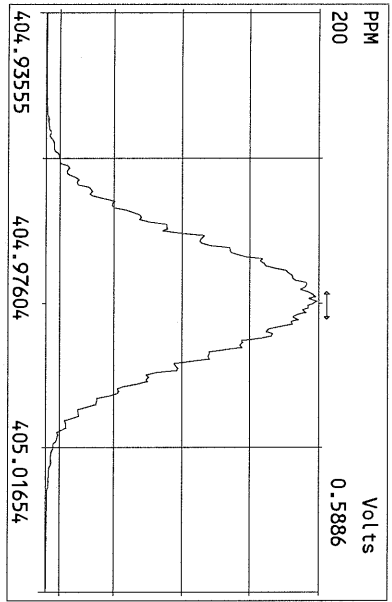
Analyst: J

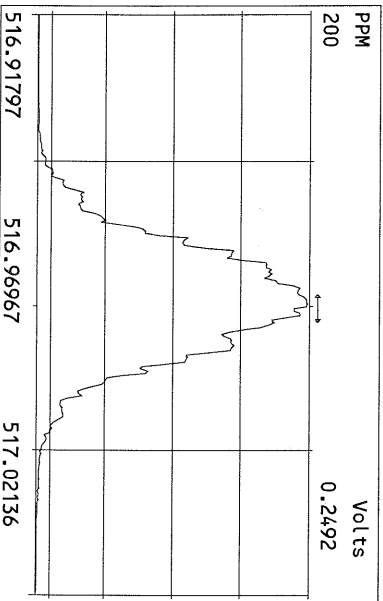
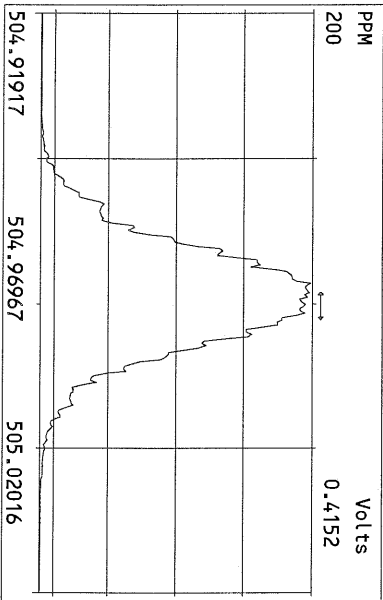
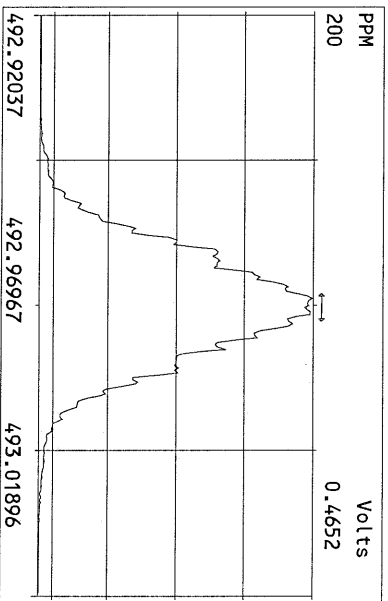
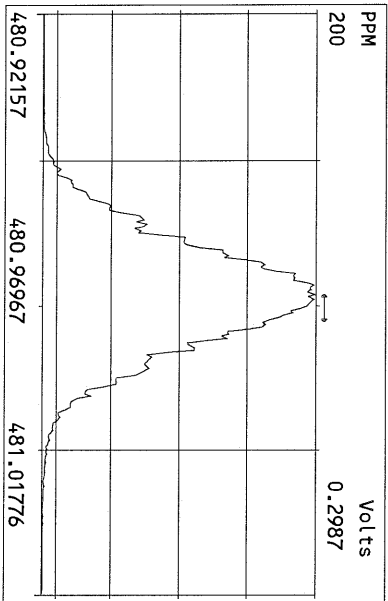
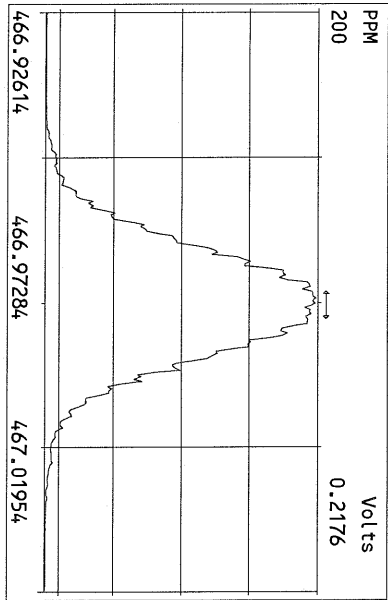
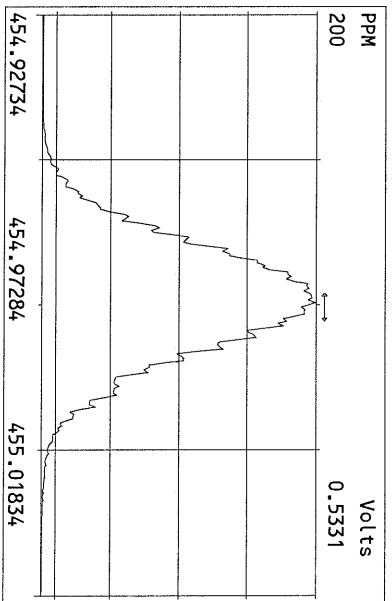
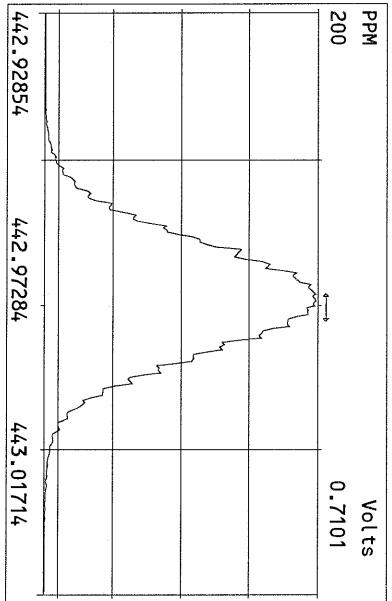
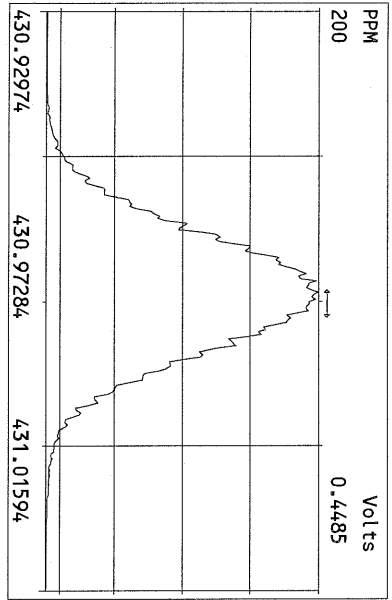
Date: 5/14/11



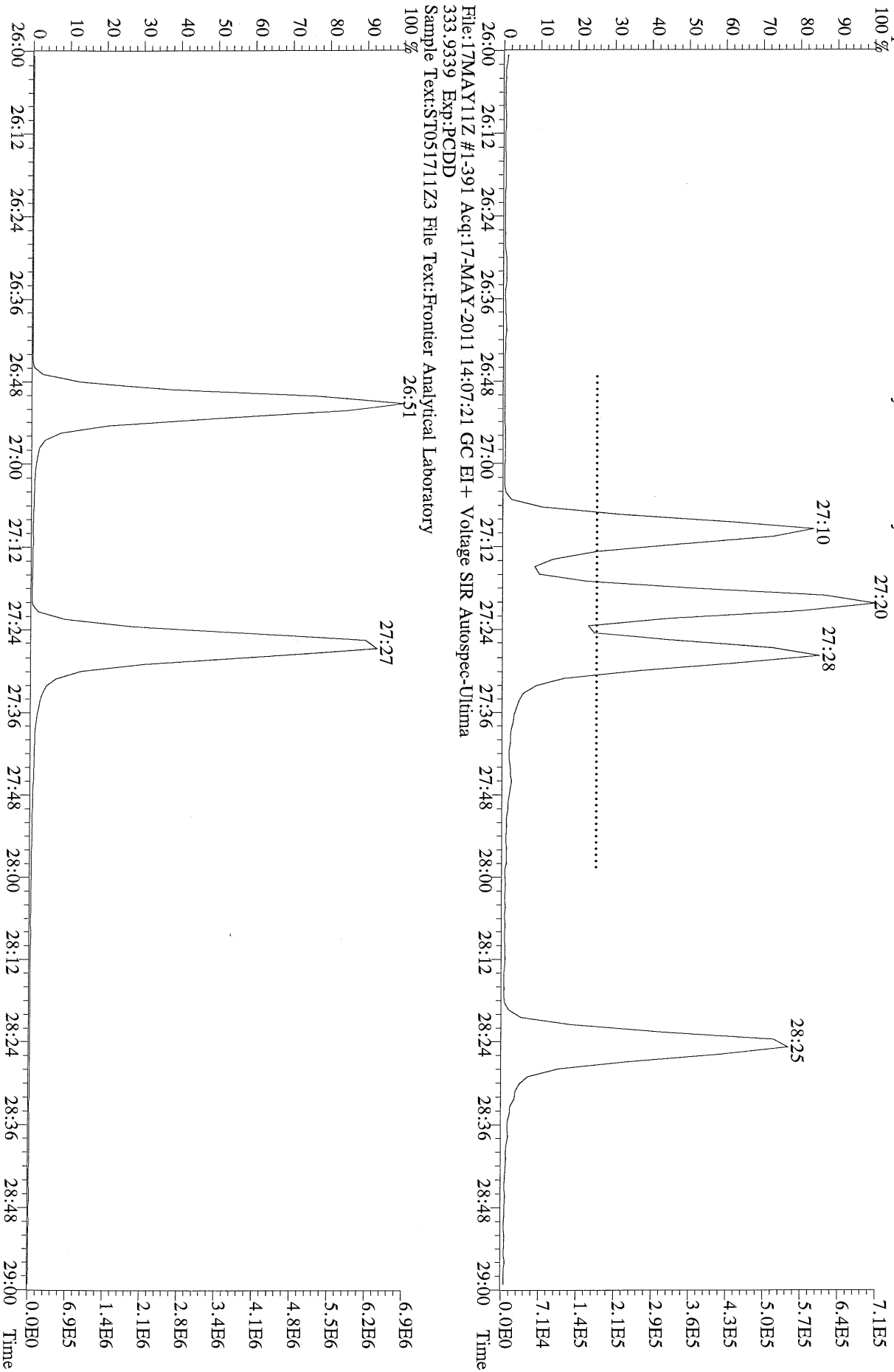




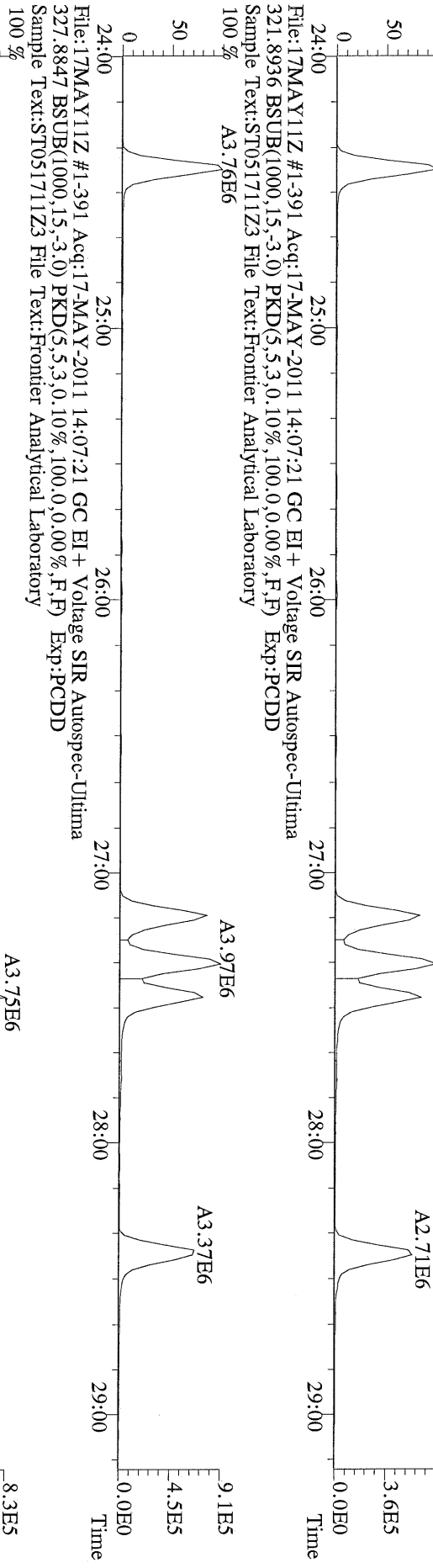




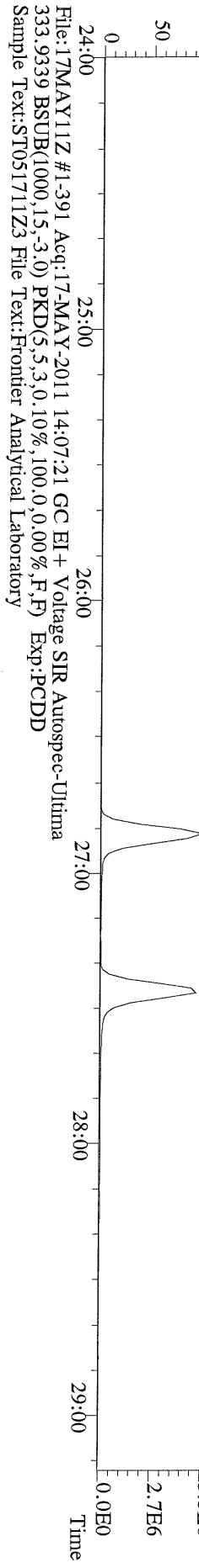
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319.8965 Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



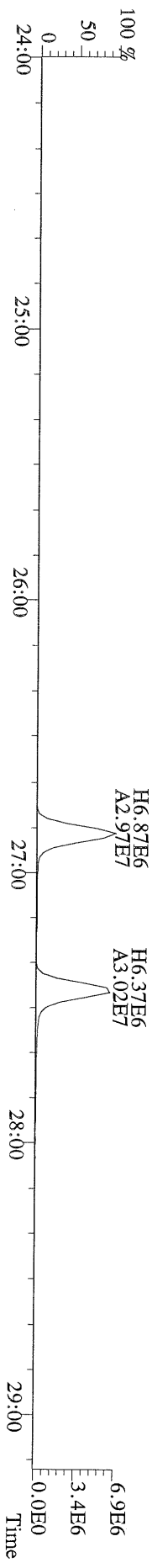
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Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 % A2.93E6



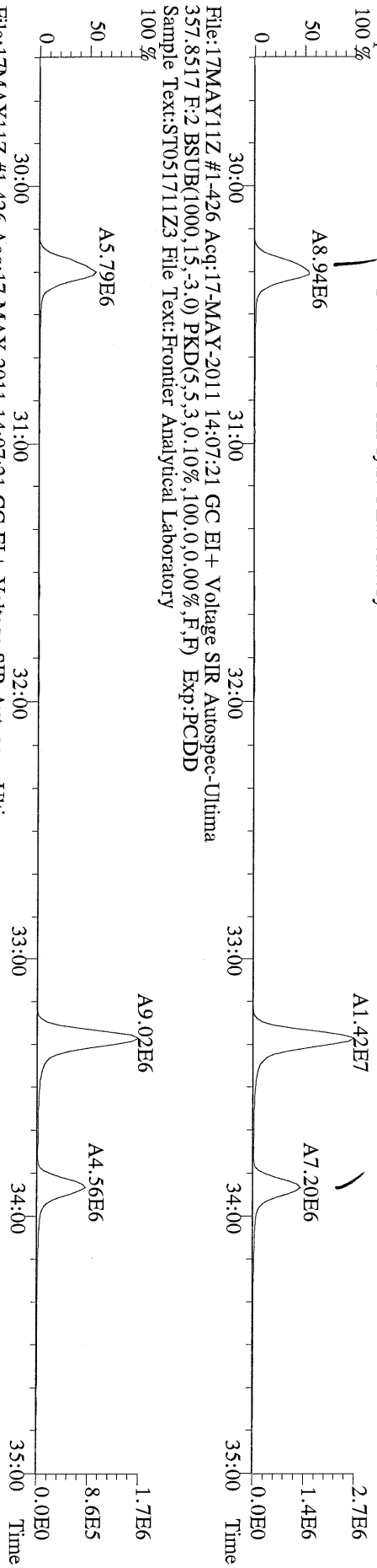
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327.8847 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
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100 % A3.75E6



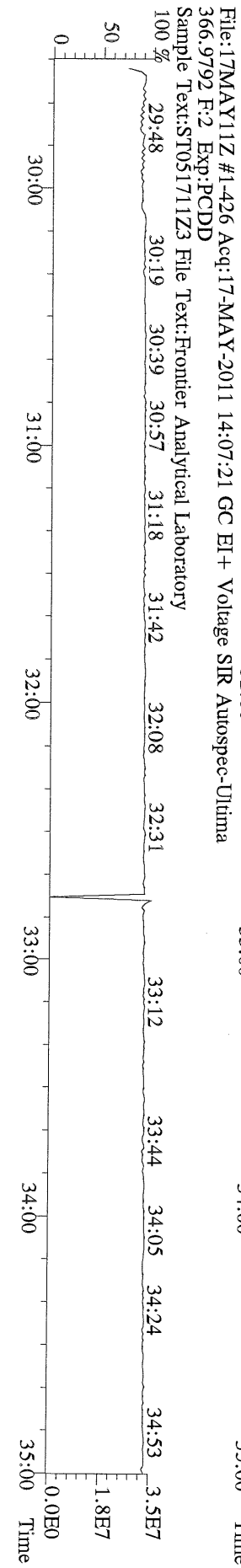
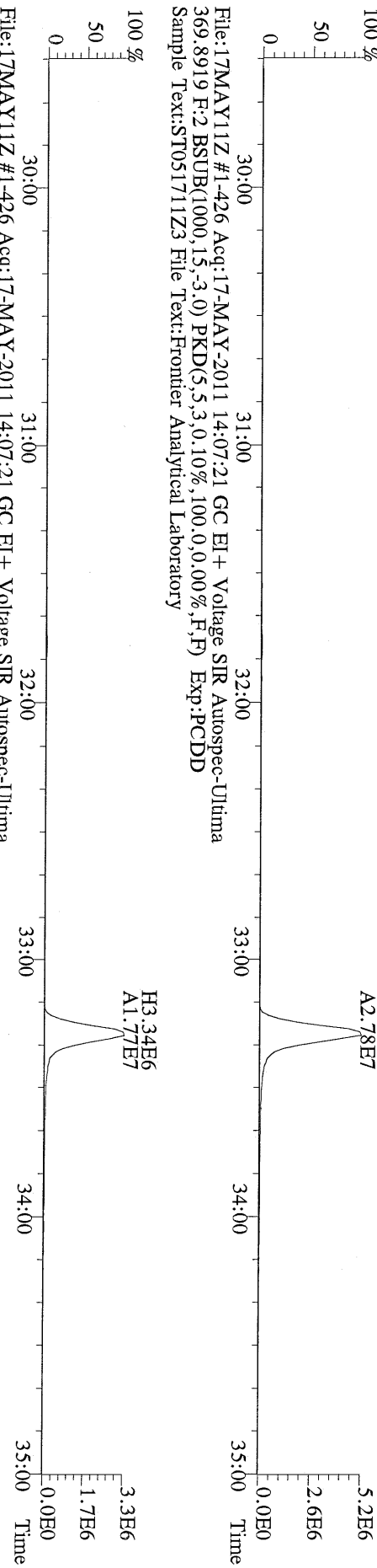
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333.9339 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



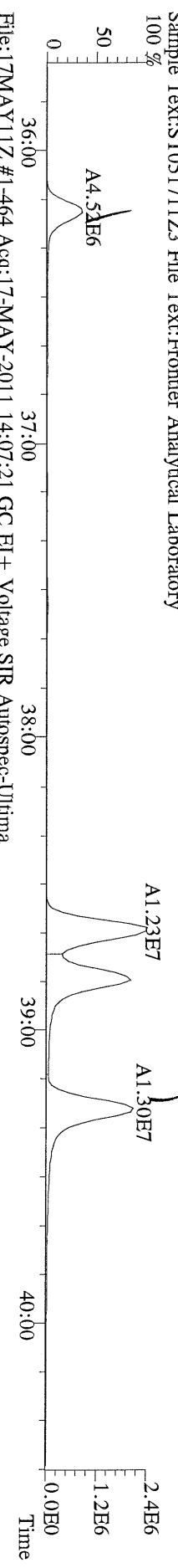
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355.8546 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



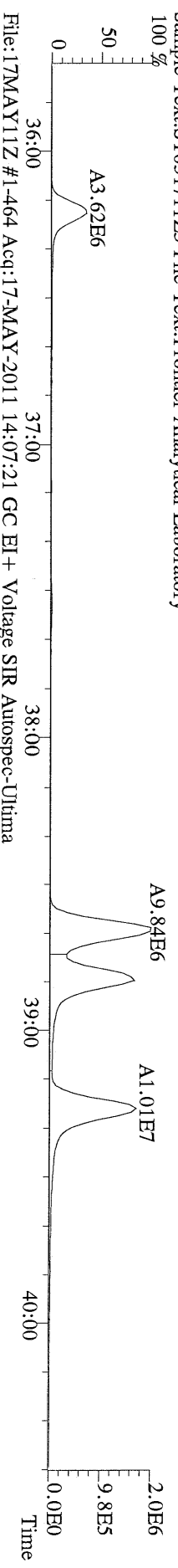
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367.8949 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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100 %



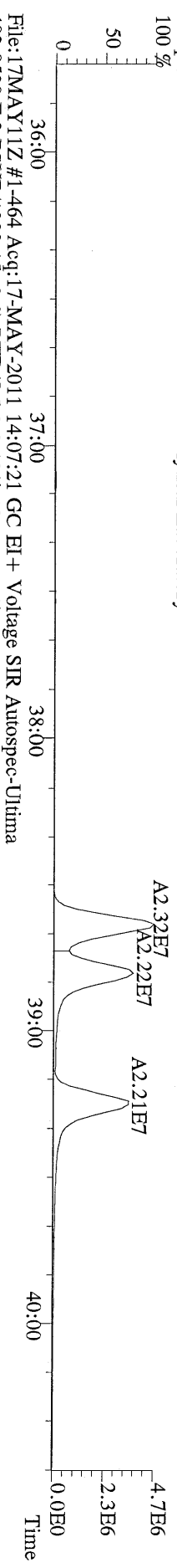
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389.8156 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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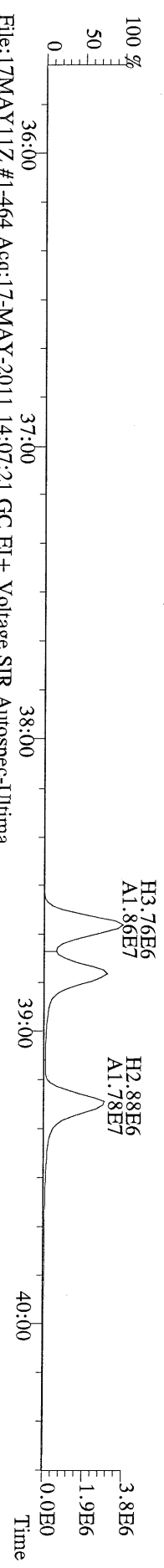
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391.8127 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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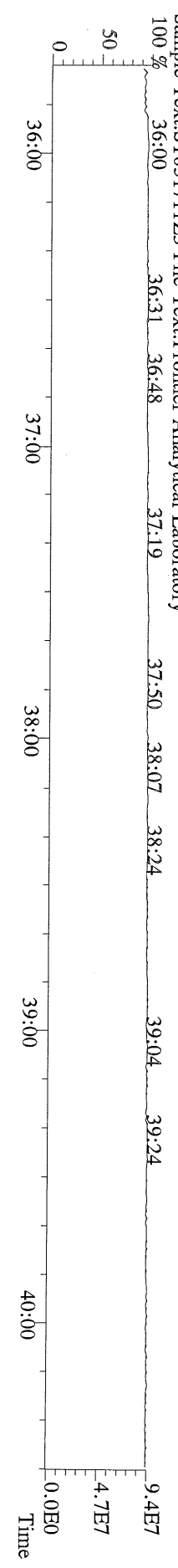
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401.8559 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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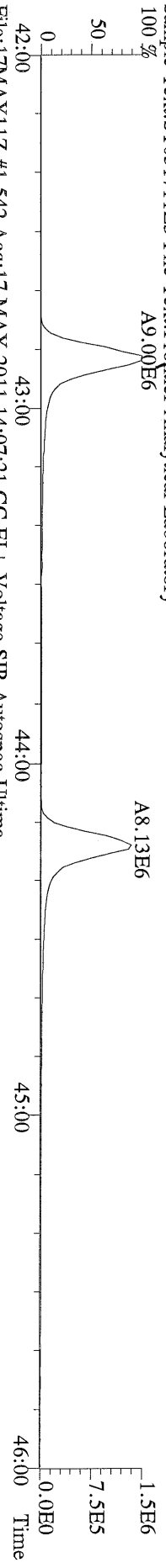
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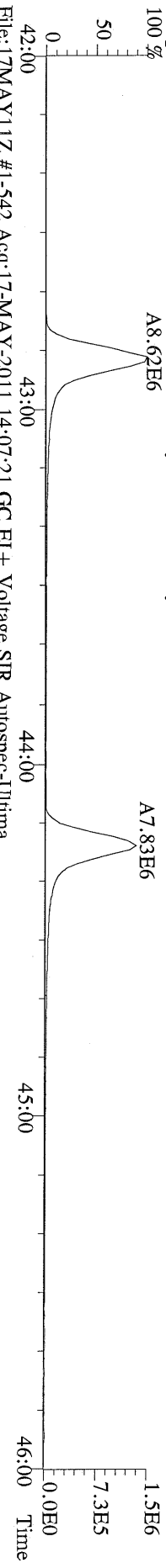
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380.9760 F:3 Exp:PCDD
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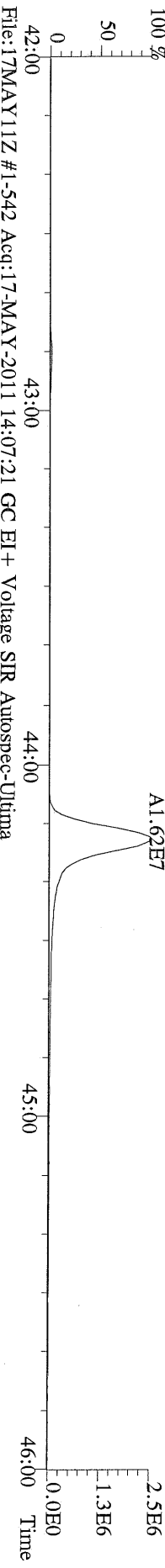
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423.7767 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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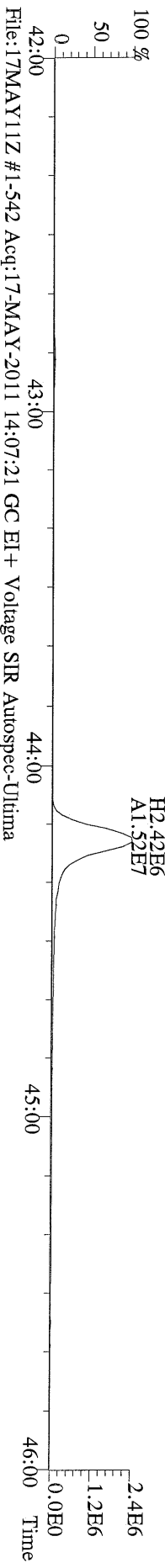
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425.7737 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



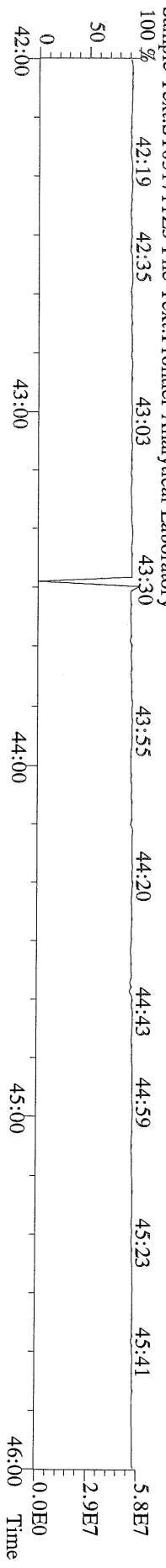
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435.8169 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory



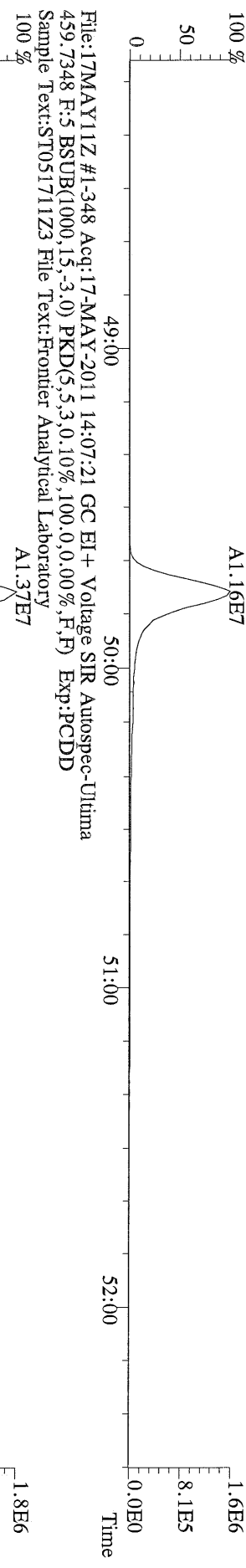
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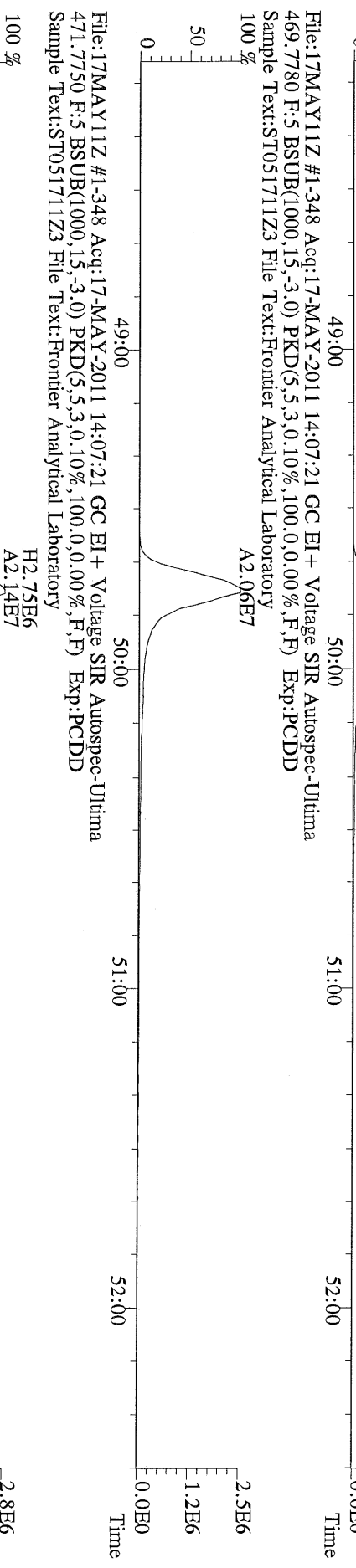
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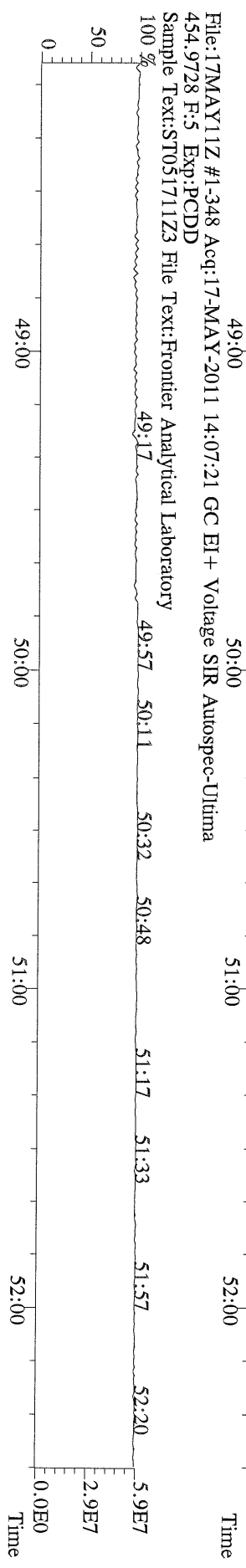
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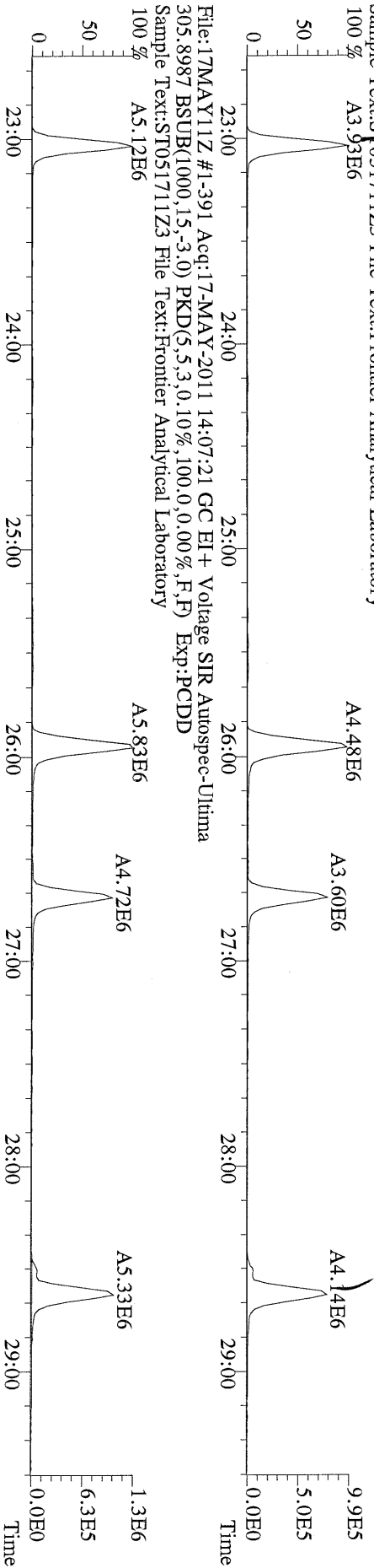
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Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %



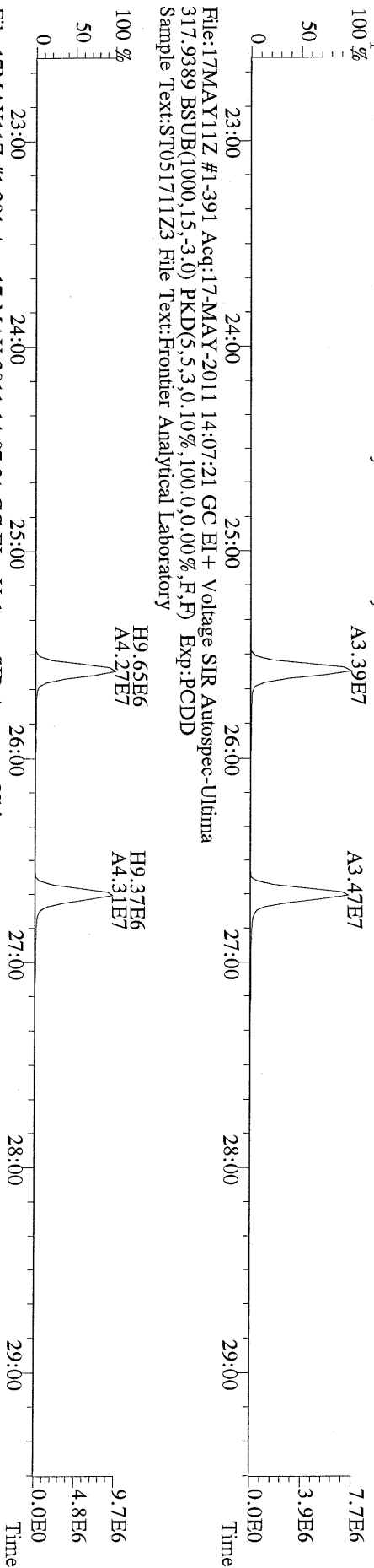
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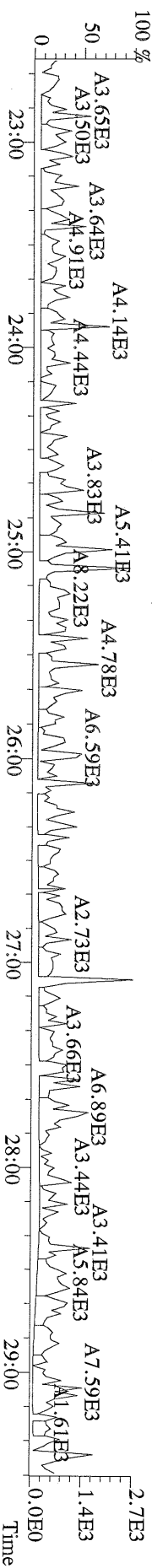
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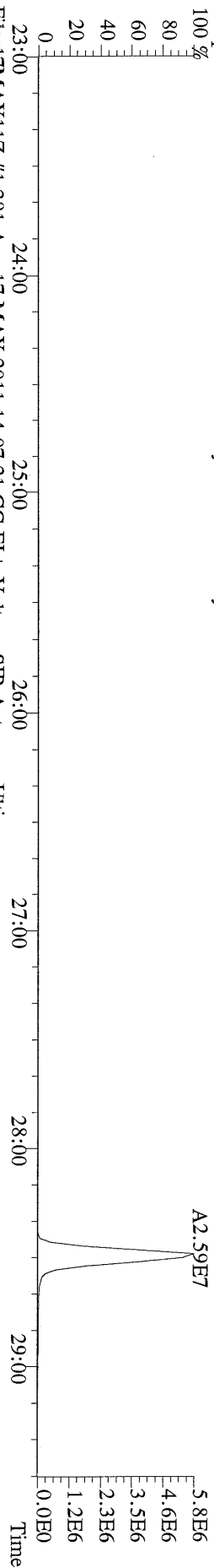
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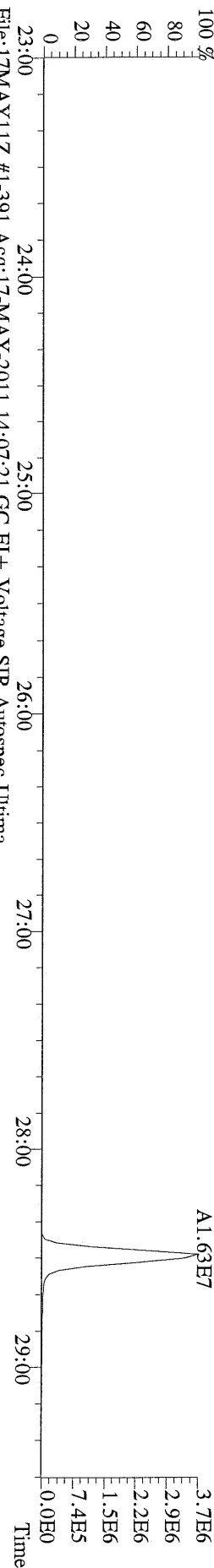
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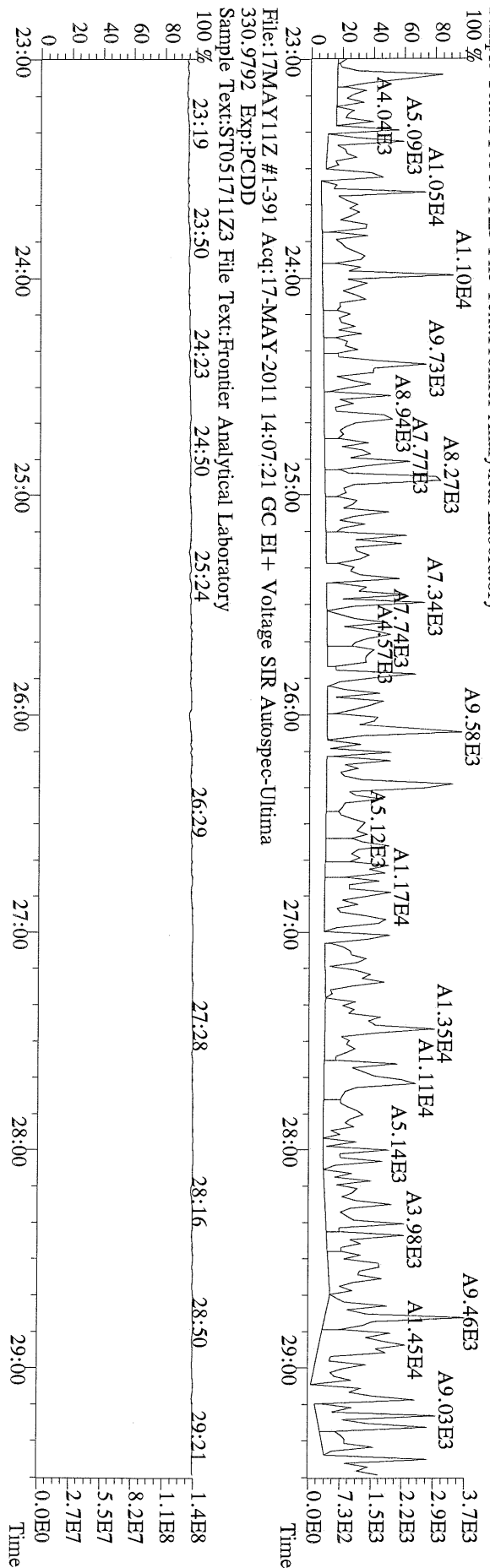
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 339.8597 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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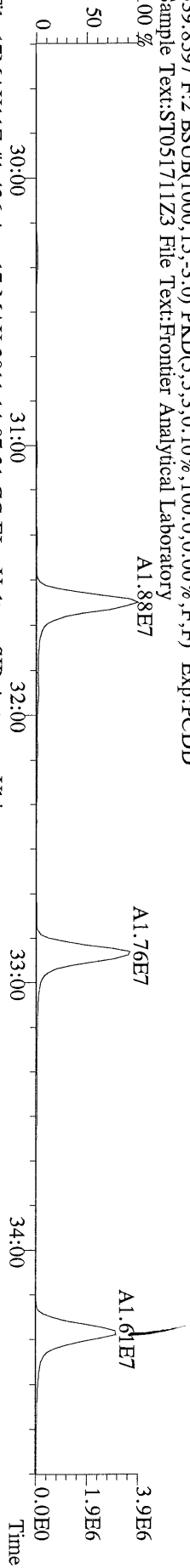
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 341.8568 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
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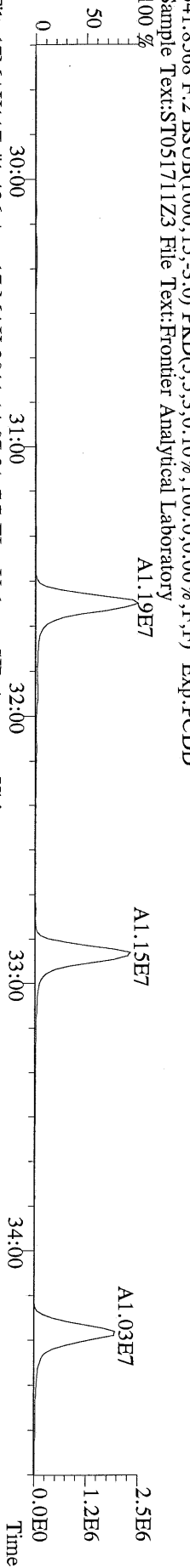
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 100 %



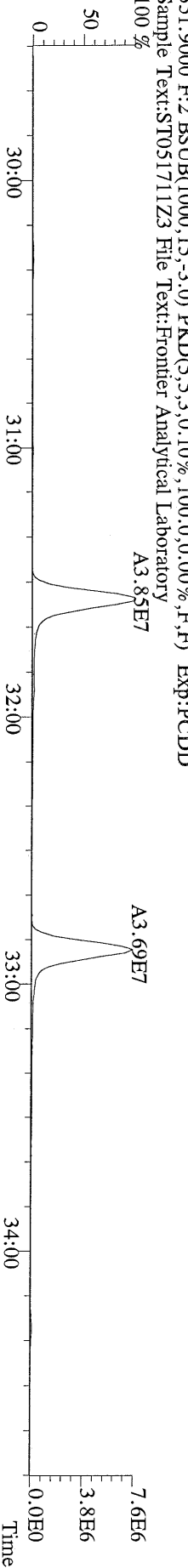
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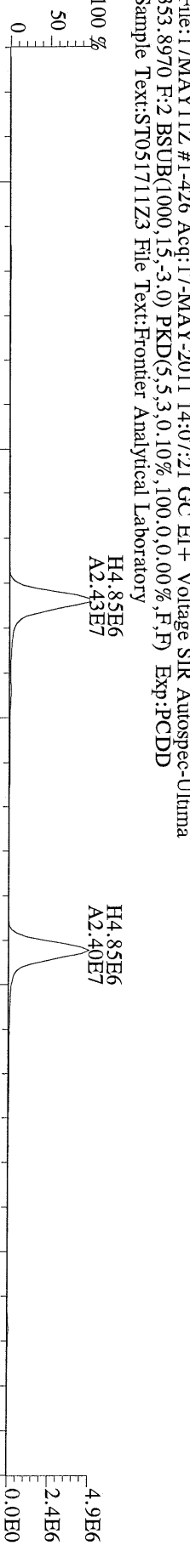
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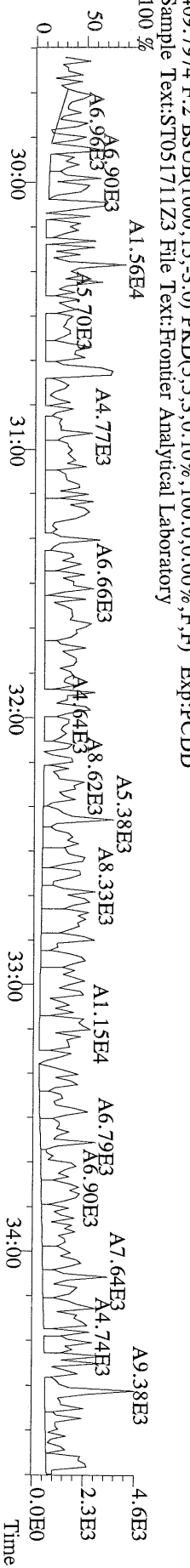
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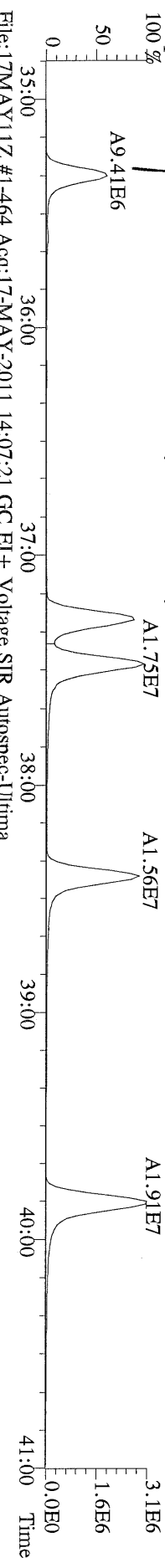
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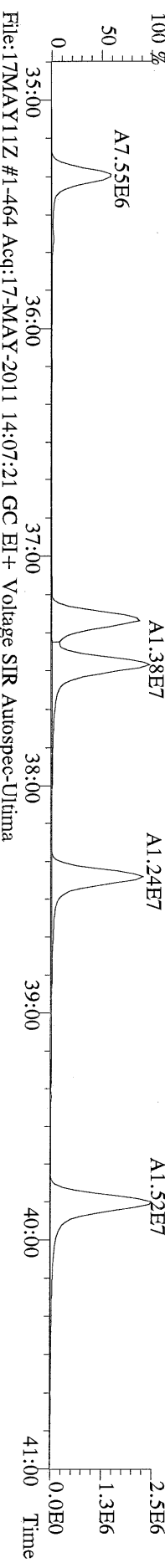
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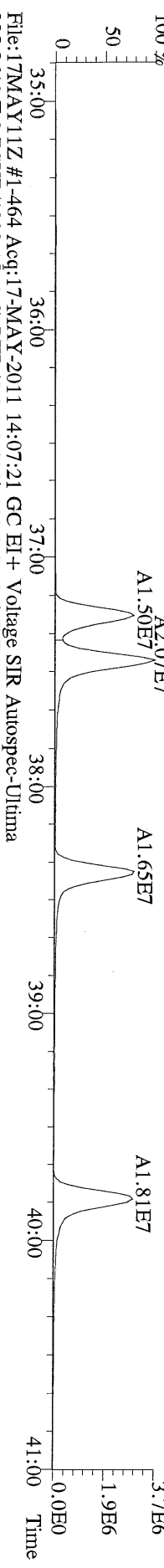
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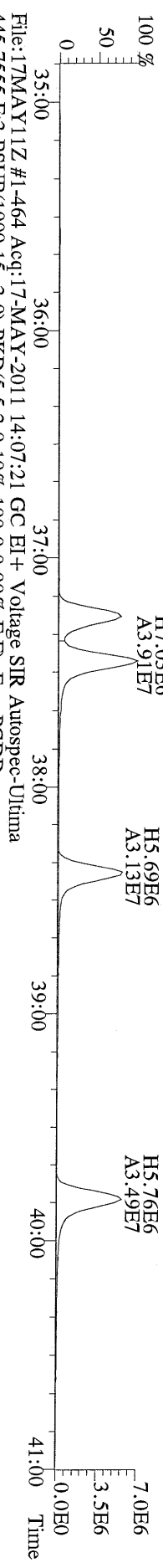
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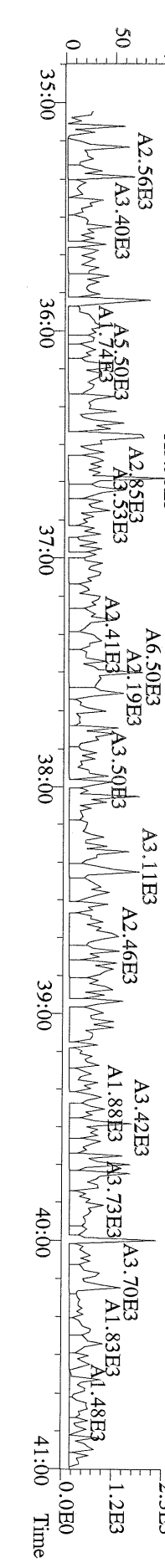
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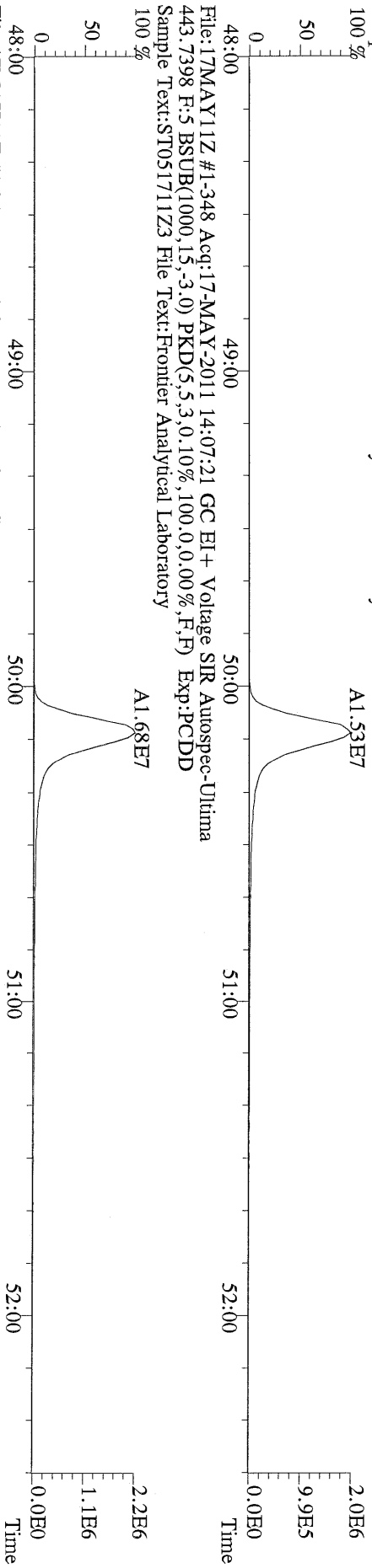
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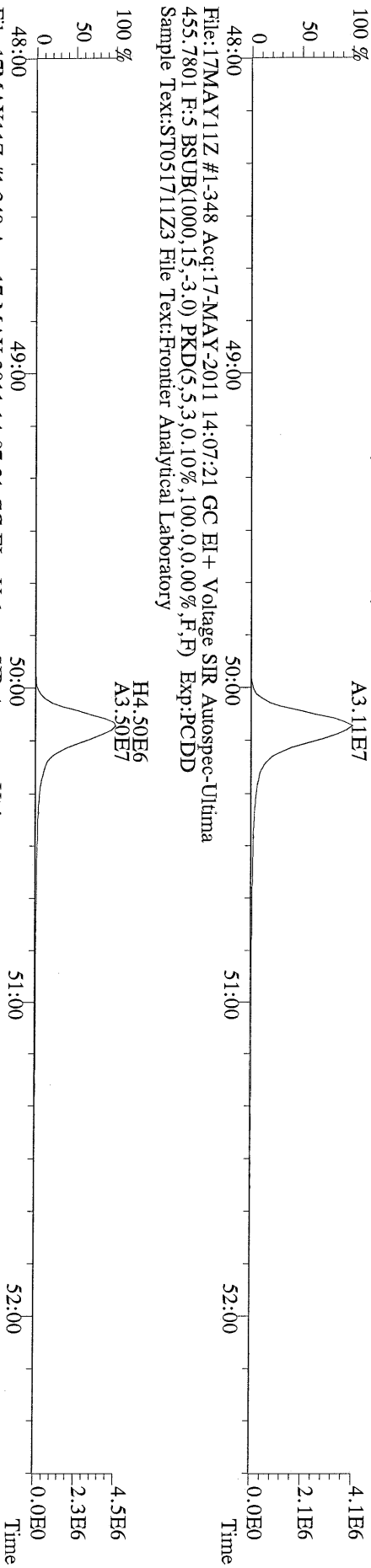
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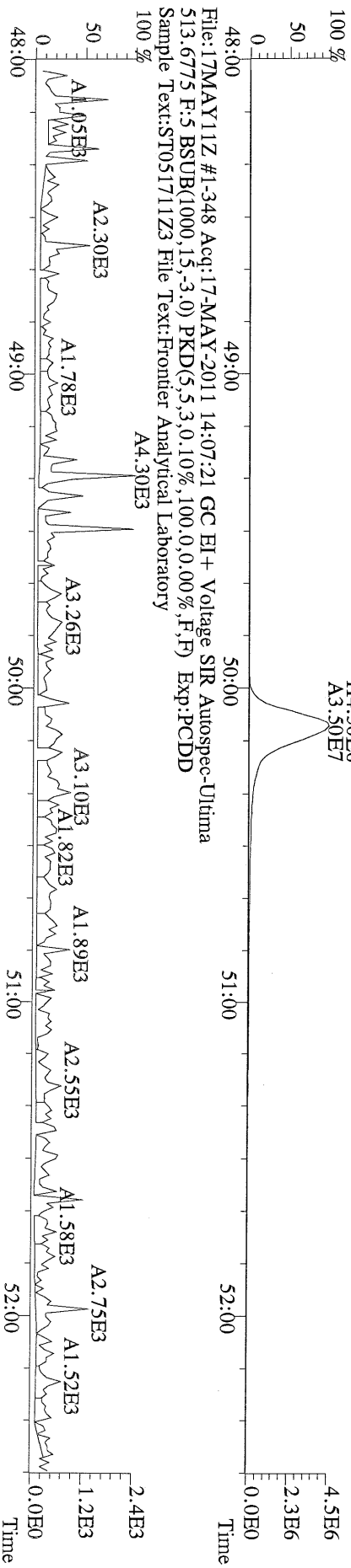
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100 %



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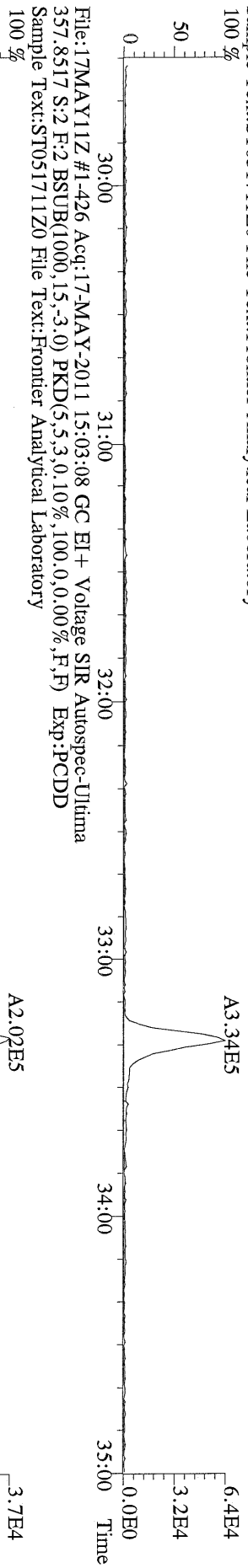


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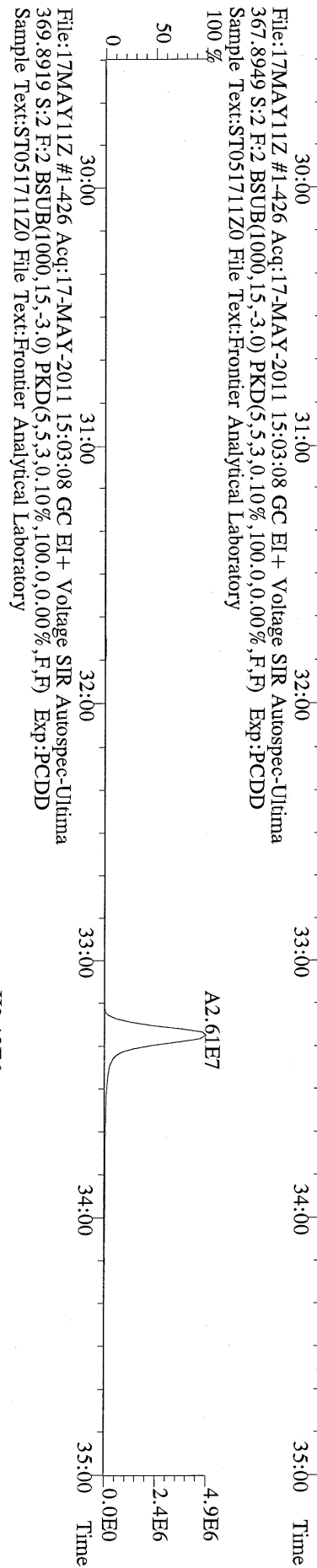


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Sample Text:ST051711Z3 File Text:Frontier Analytical Laboratory
100 %

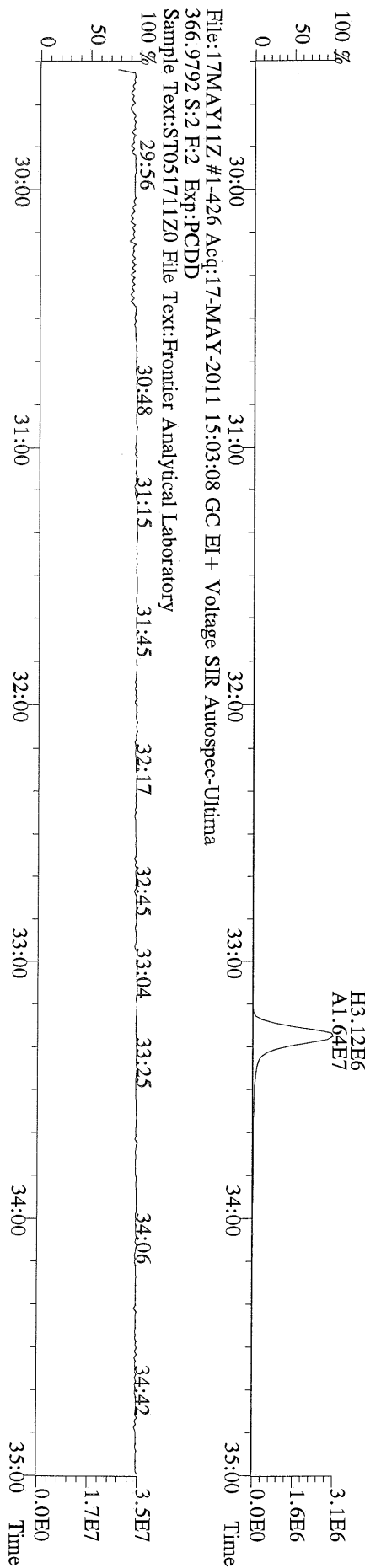
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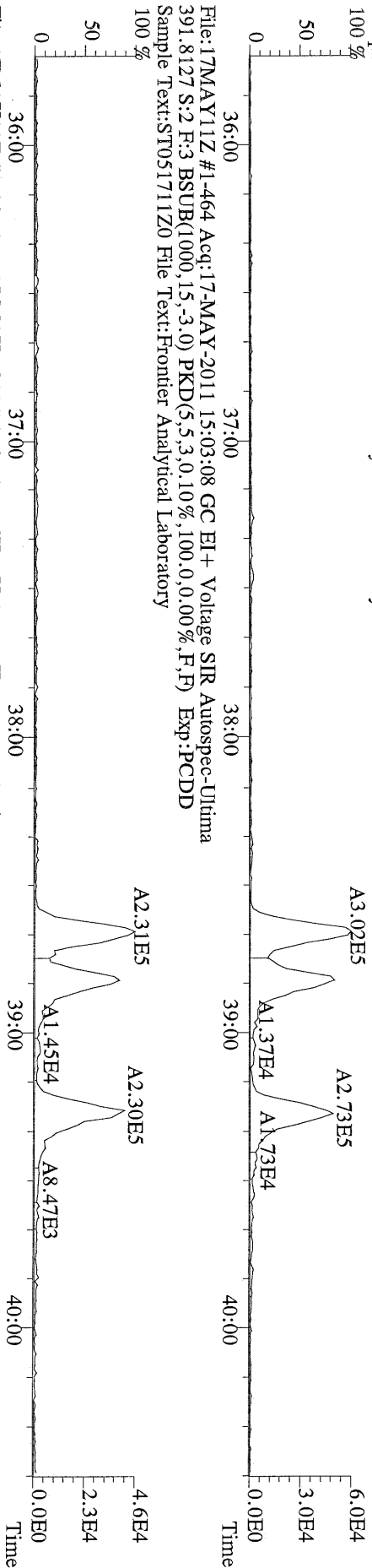
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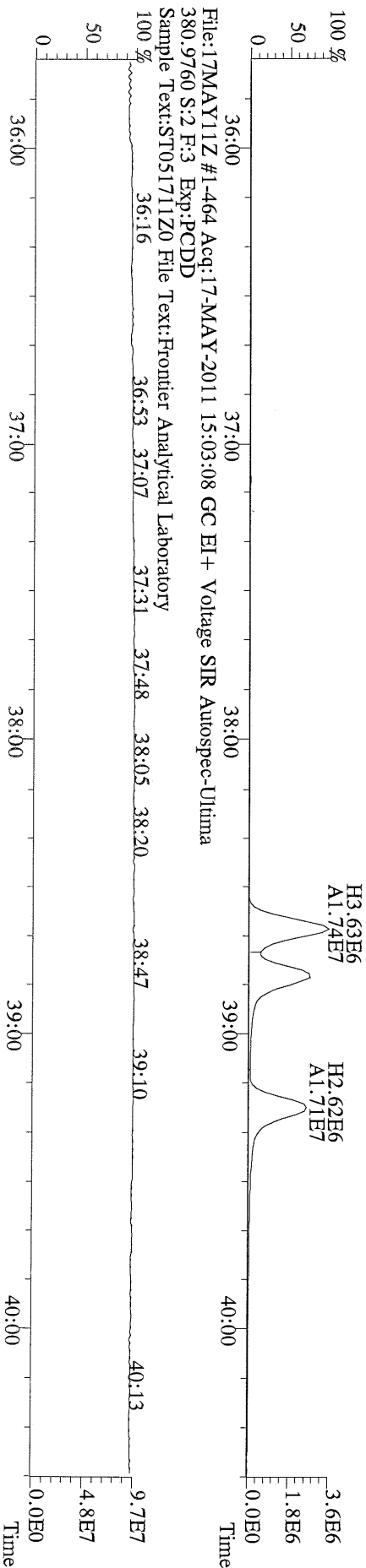
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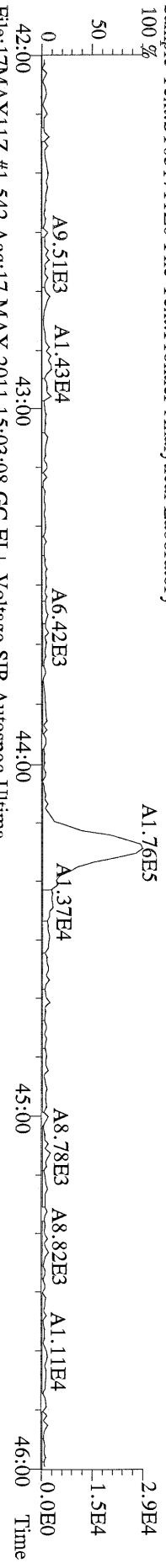
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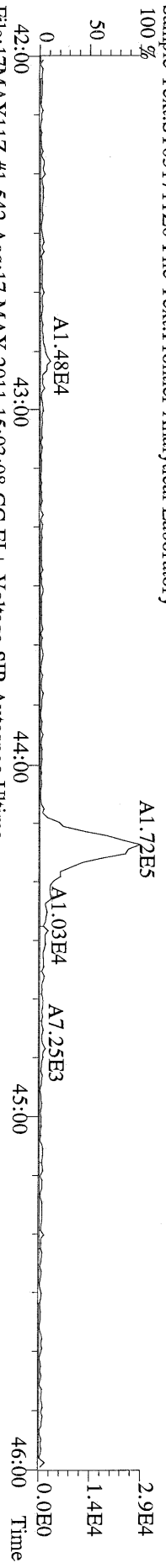
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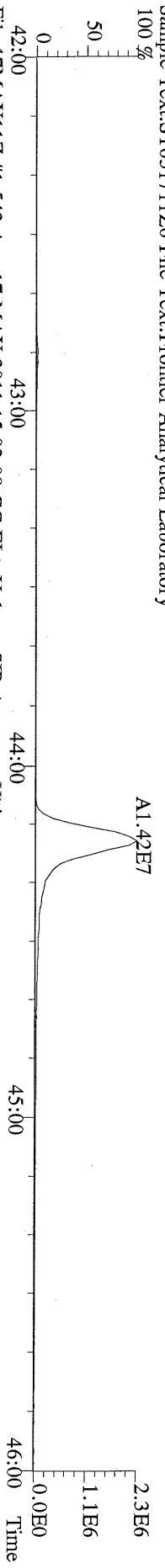
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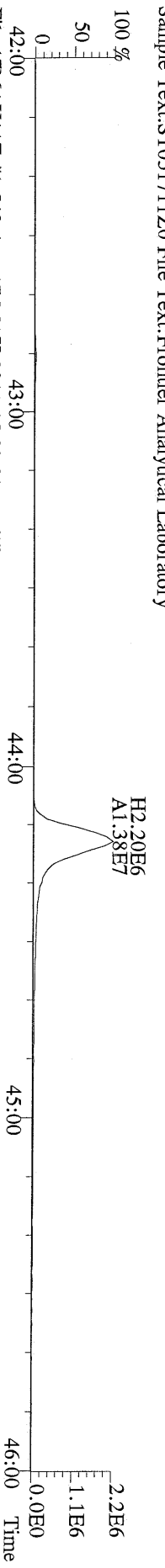
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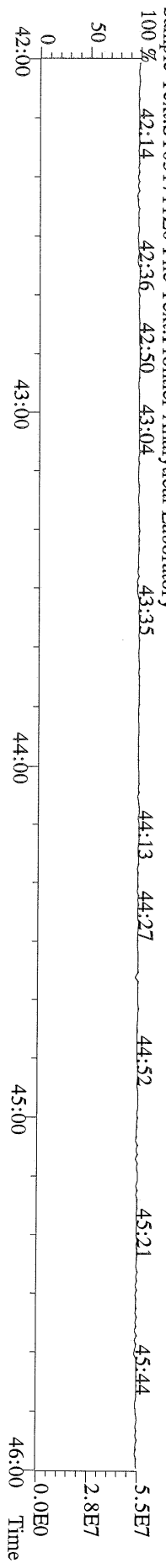
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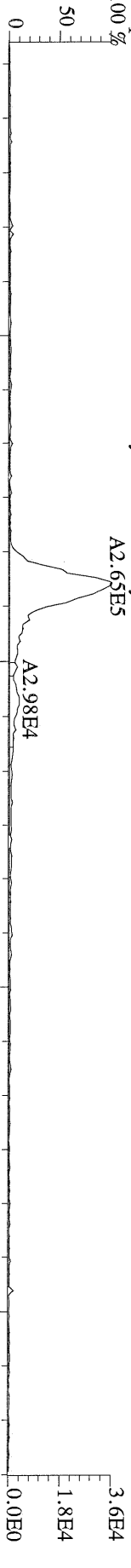
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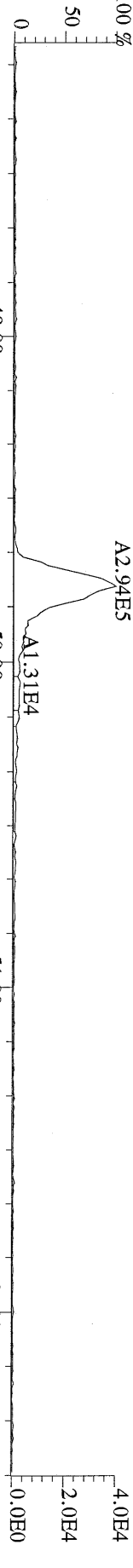
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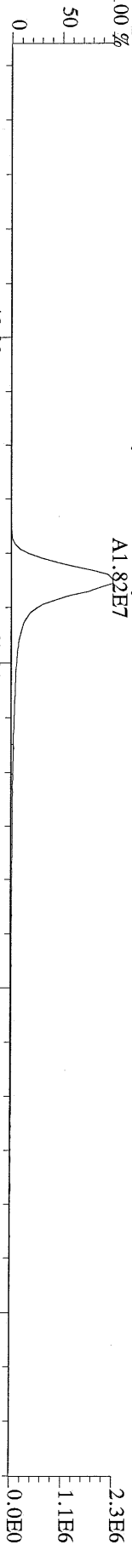
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100 %



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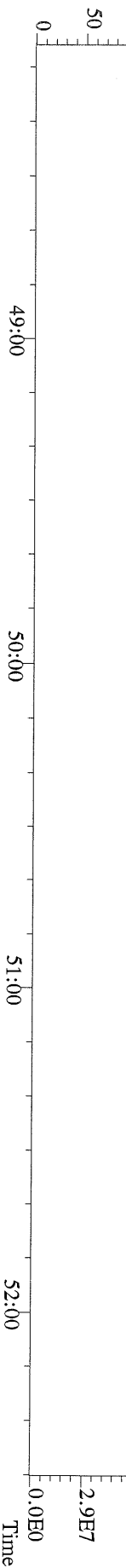
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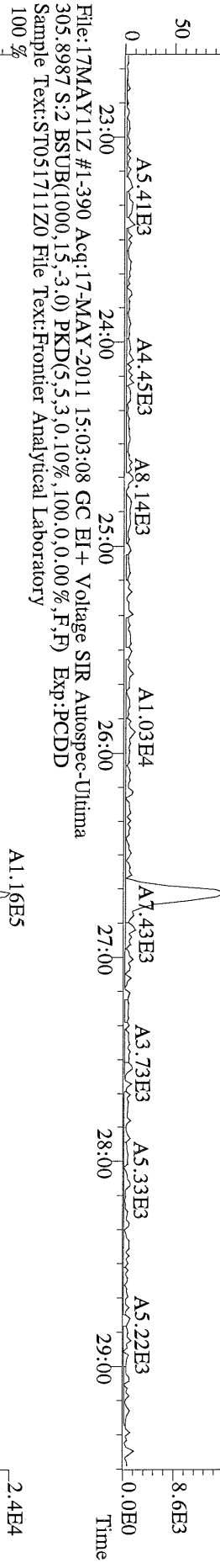
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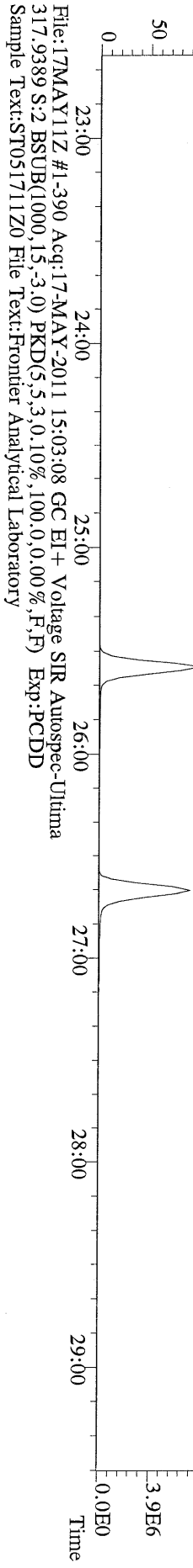
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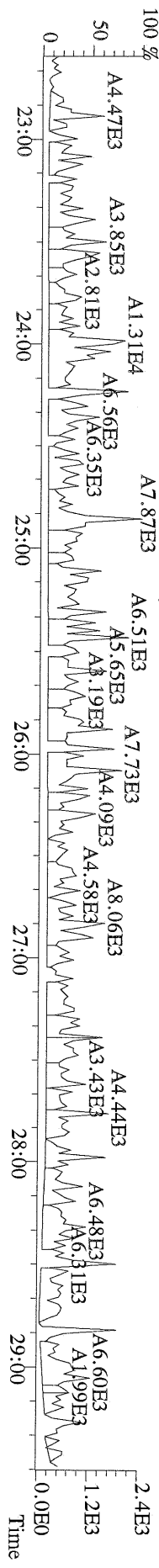
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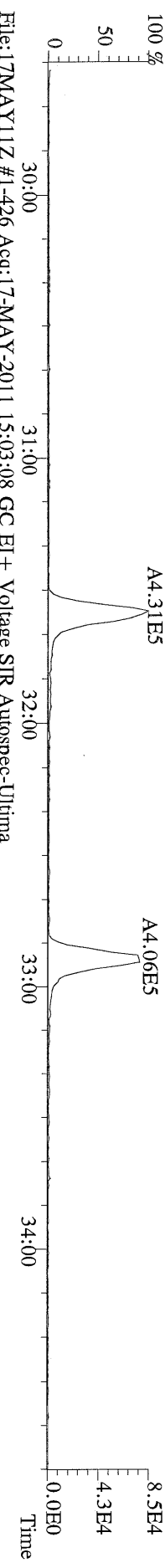
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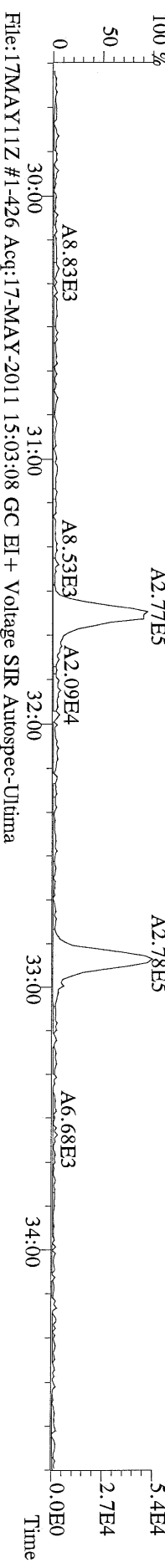
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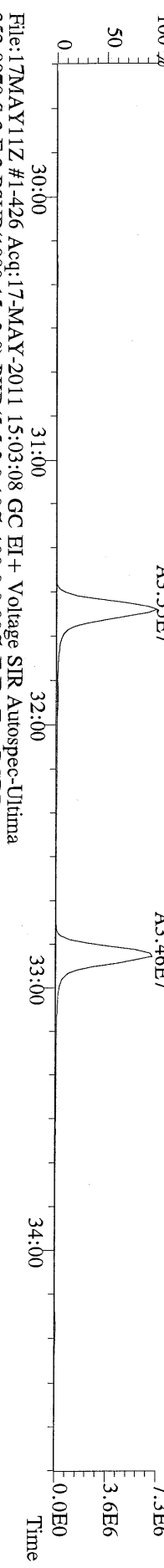
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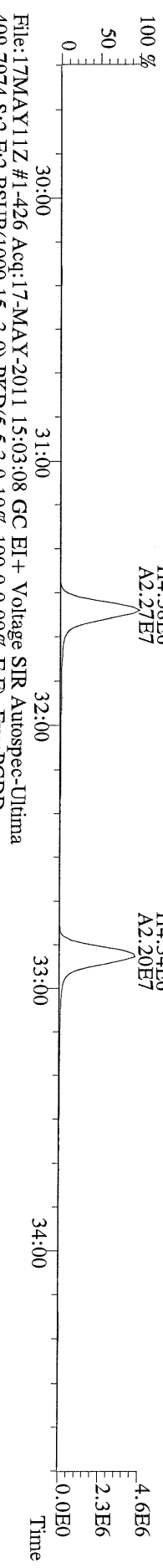
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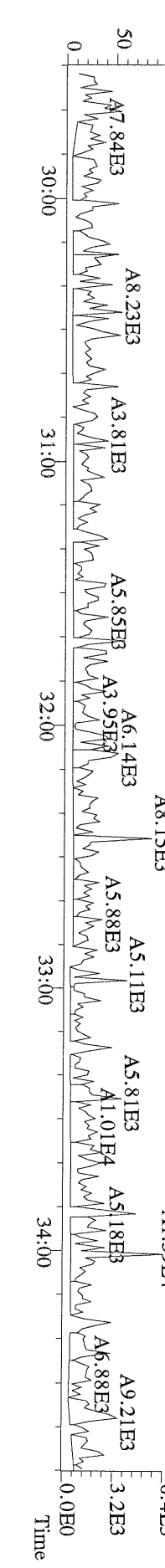
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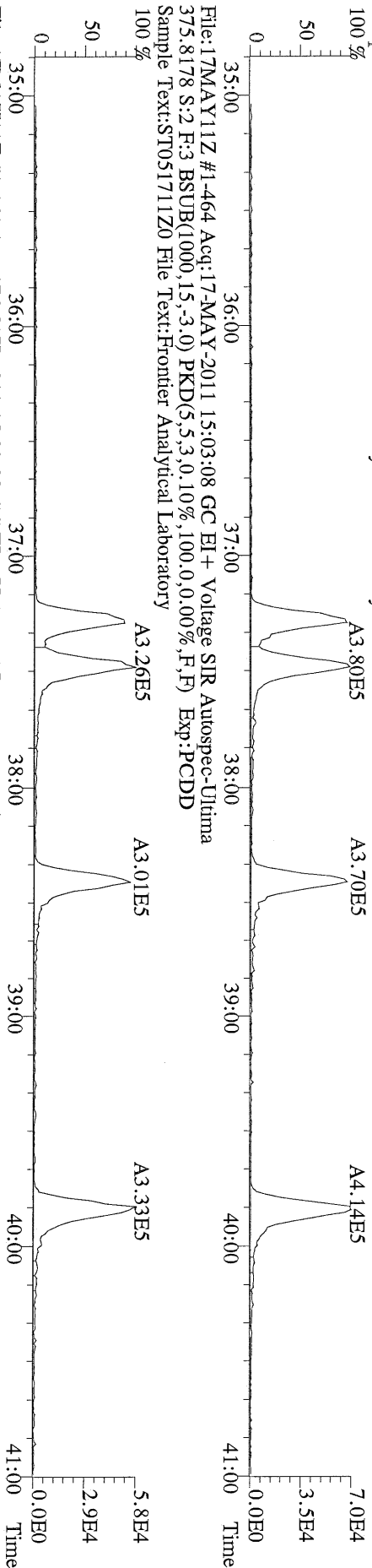
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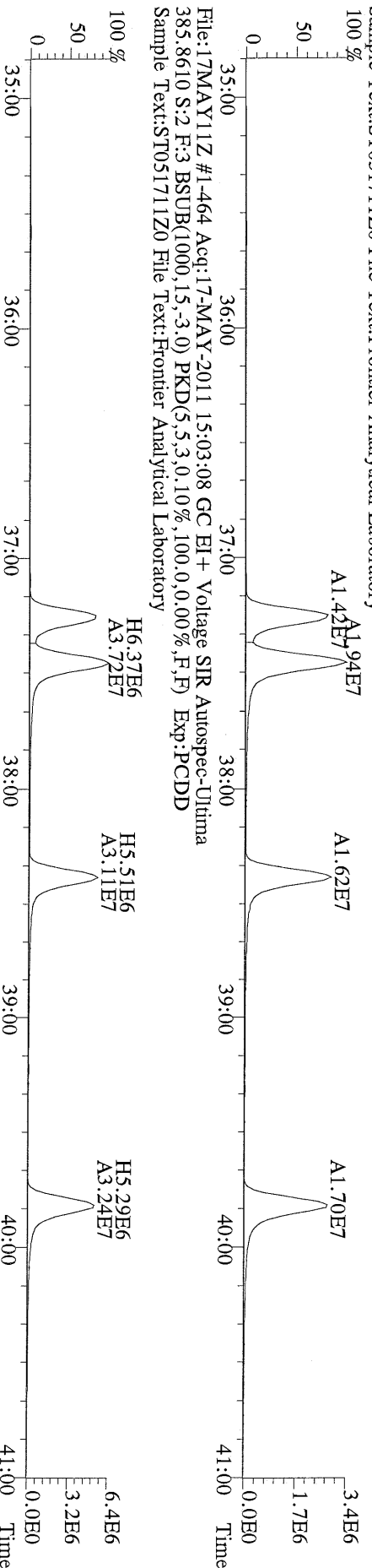
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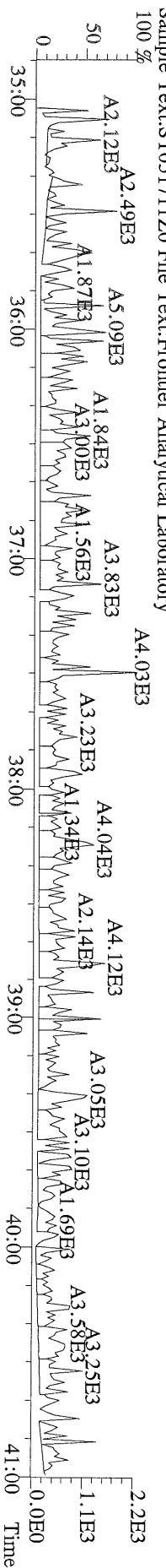
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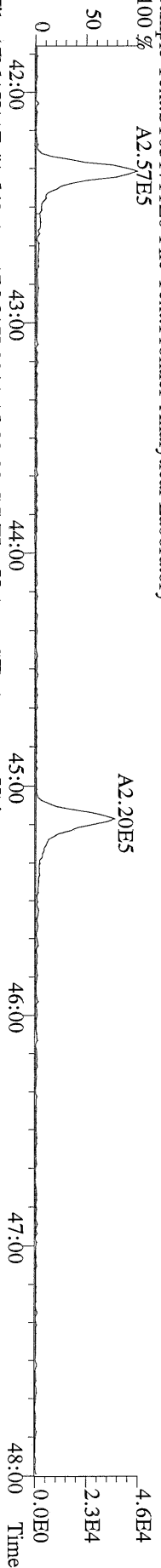
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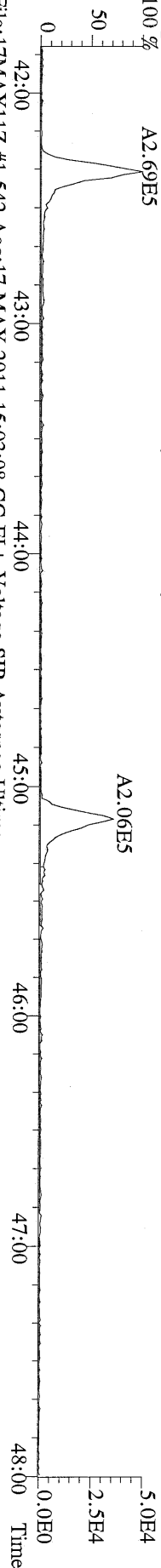
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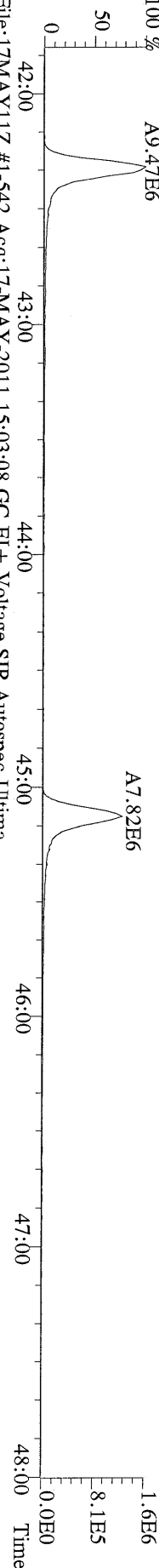
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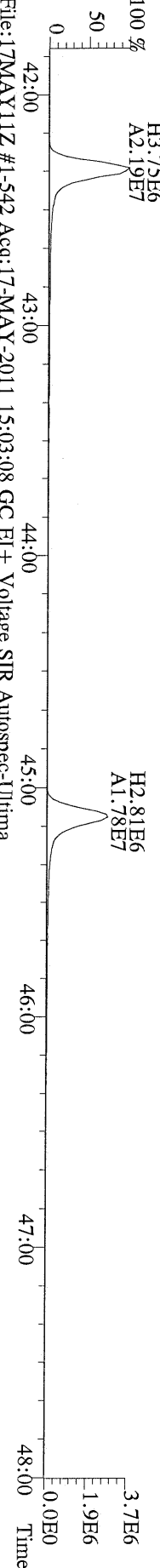
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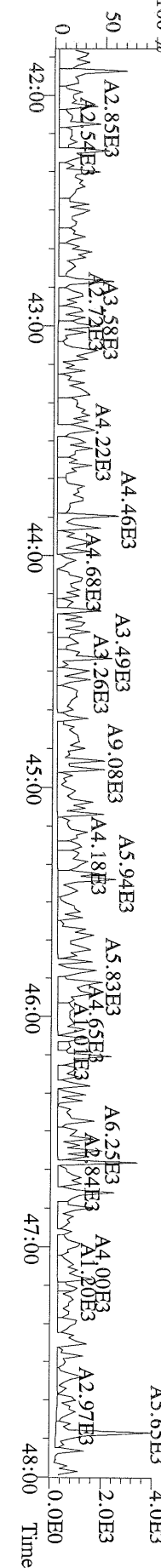
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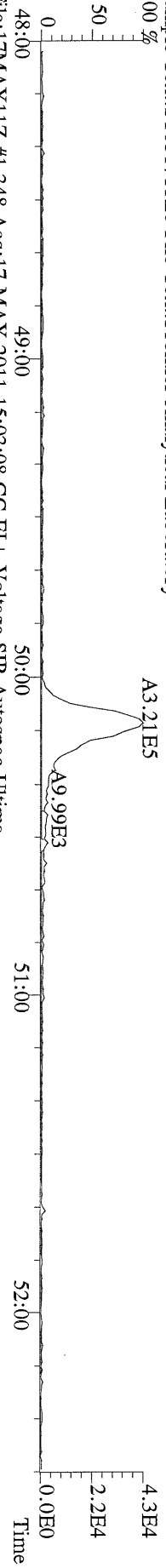
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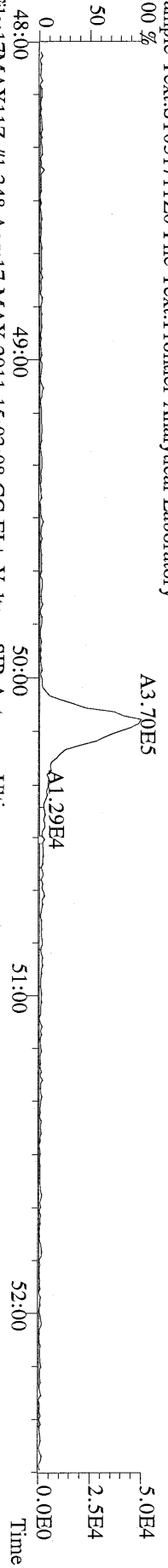
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479.7165 S:2 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



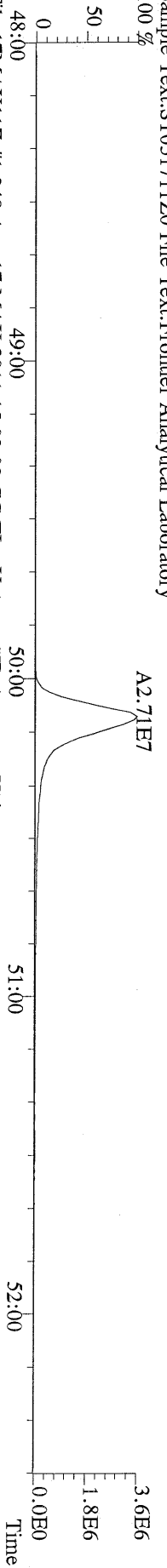
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441.7428 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



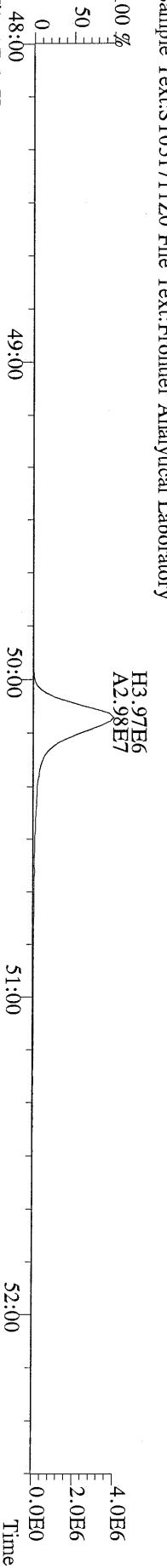
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443.7398 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



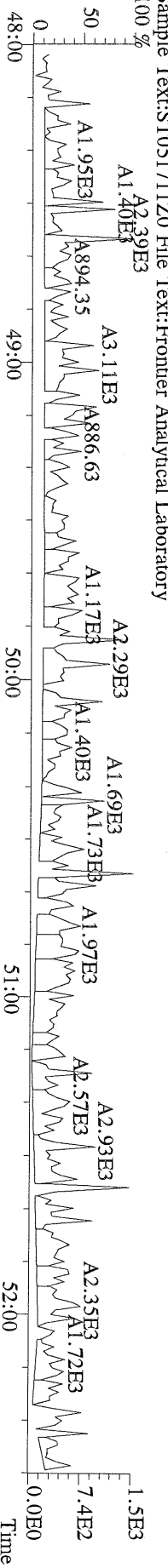
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453.7831 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z0 File Text:Frontier Analytical Laboratory



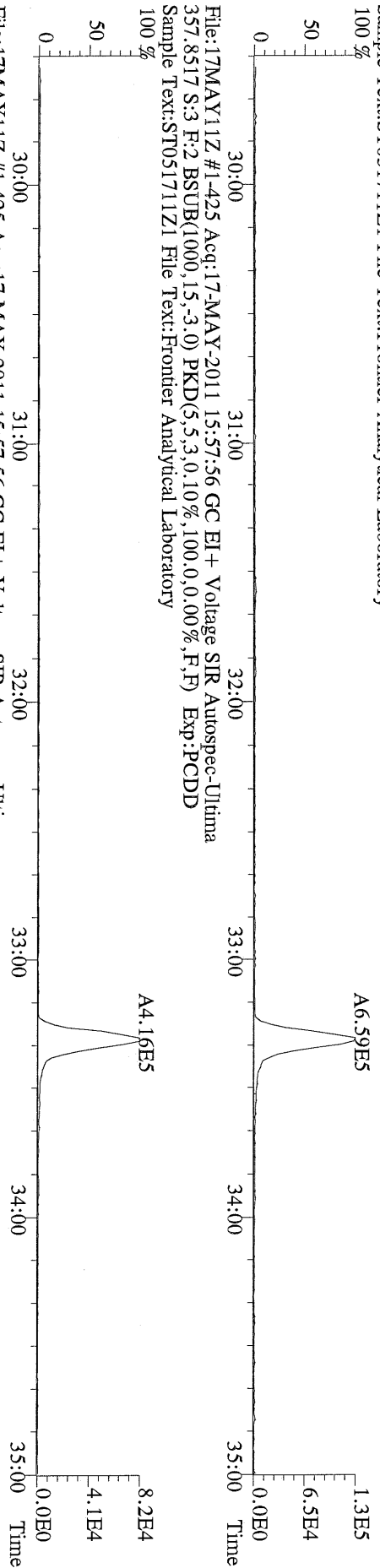
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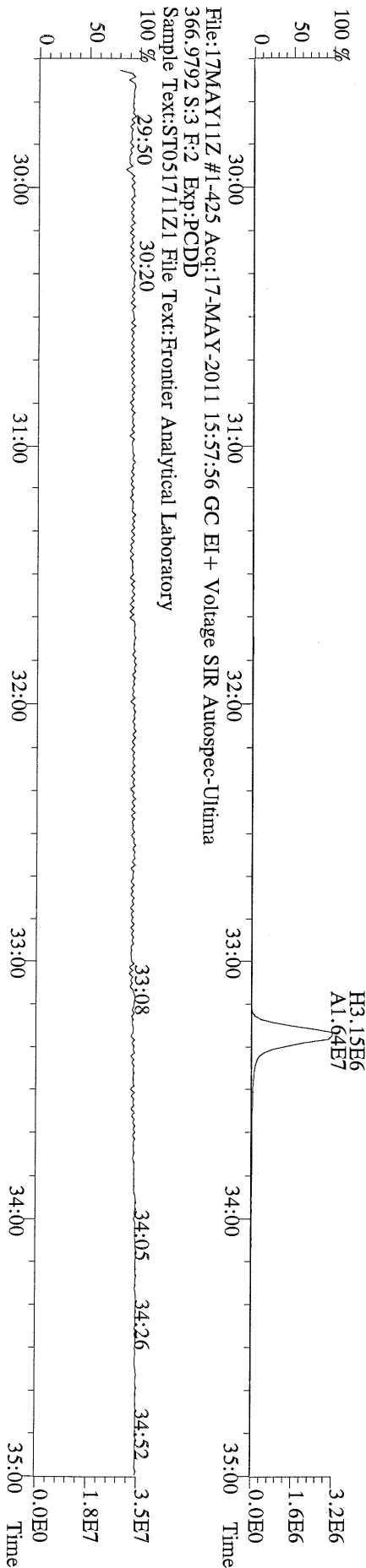
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513.6775 S.2 F.5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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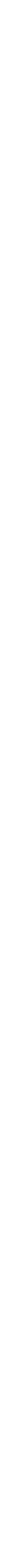
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355.8546 S.3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



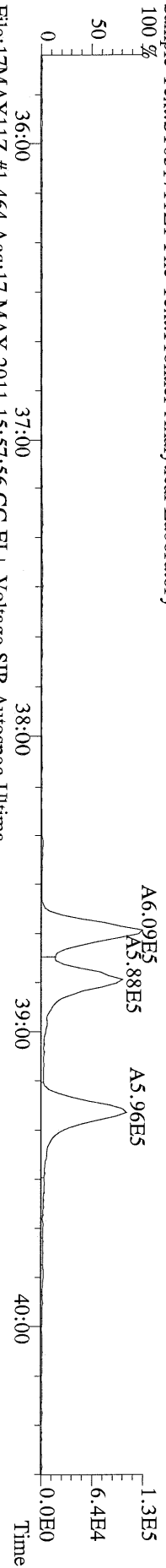
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367.8949 S.3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



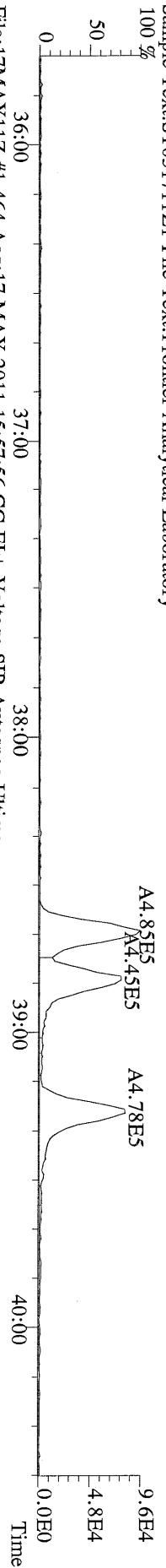
File:17MAY11Z #1-425 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
366.9792 S.3 F:2 Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



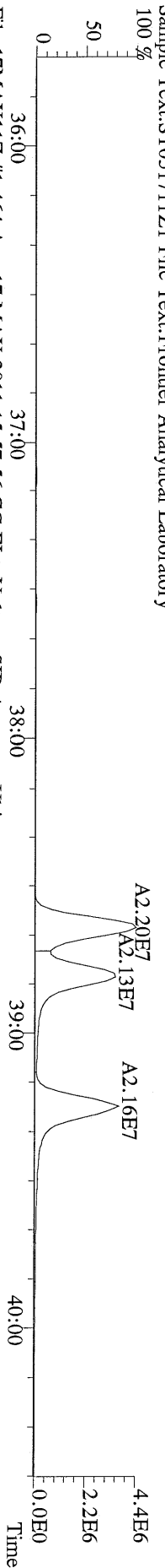
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Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



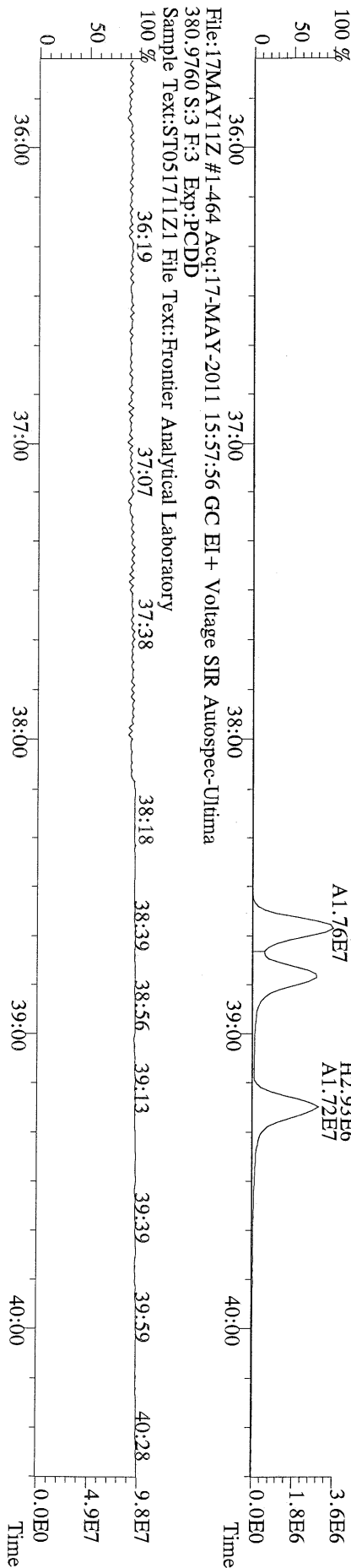
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391.8127 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



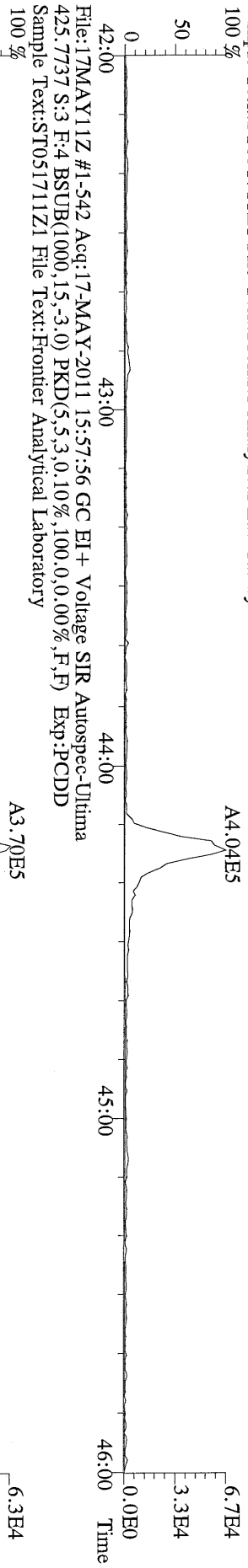
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401.8559 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



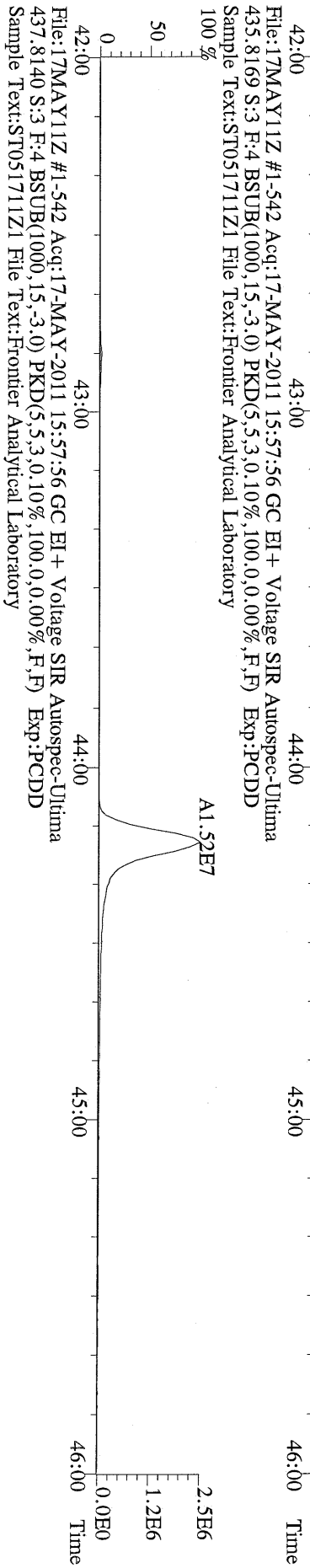
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Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



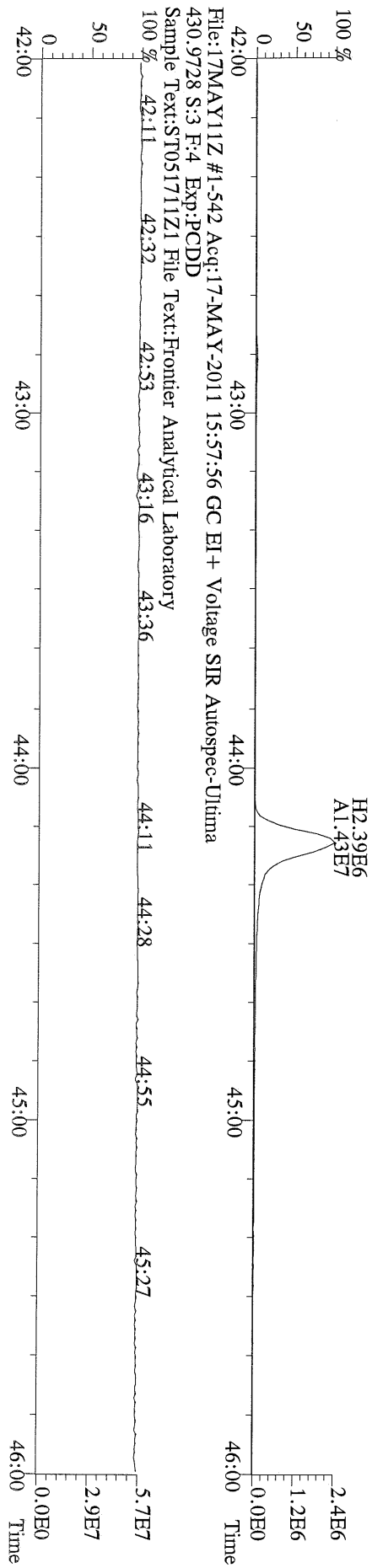
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423.7767 S:3 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory
100 %



File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:3 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory
100 %

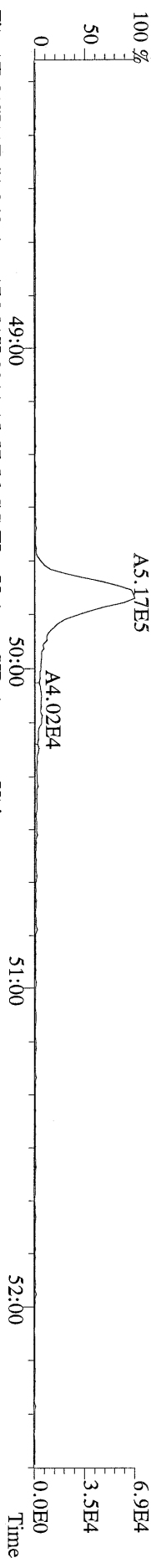


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437.8140 S:3 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory
100 %

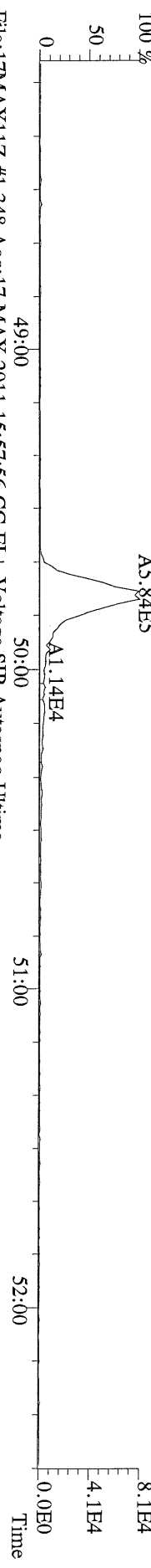


File:17MAY11Z #1-542 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
430.9728 S:3 F:4 Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory
100 %

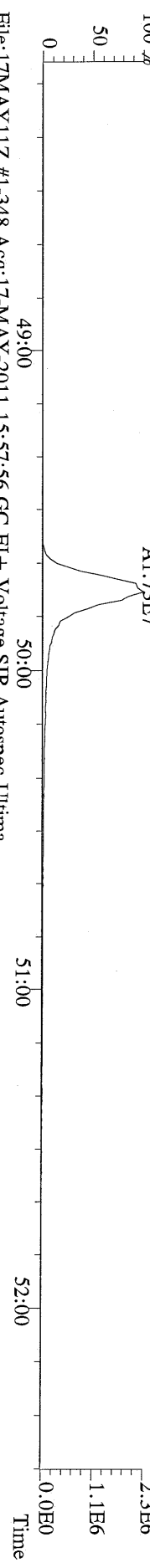
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457.7377 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



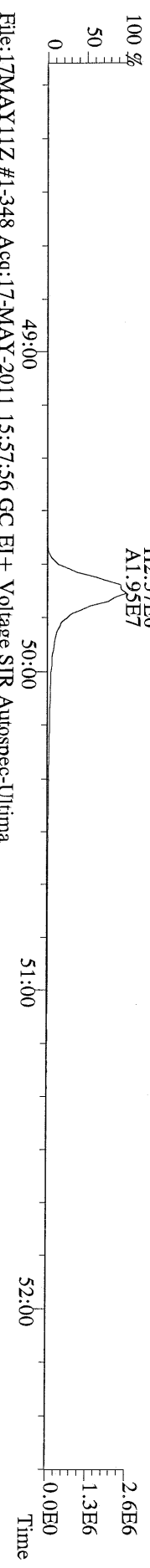
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459.7348 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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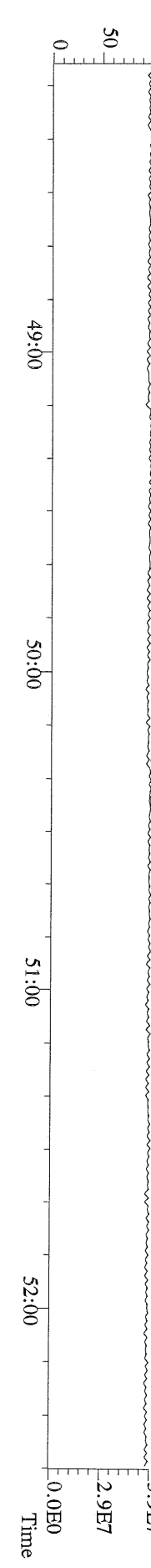
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469.7780 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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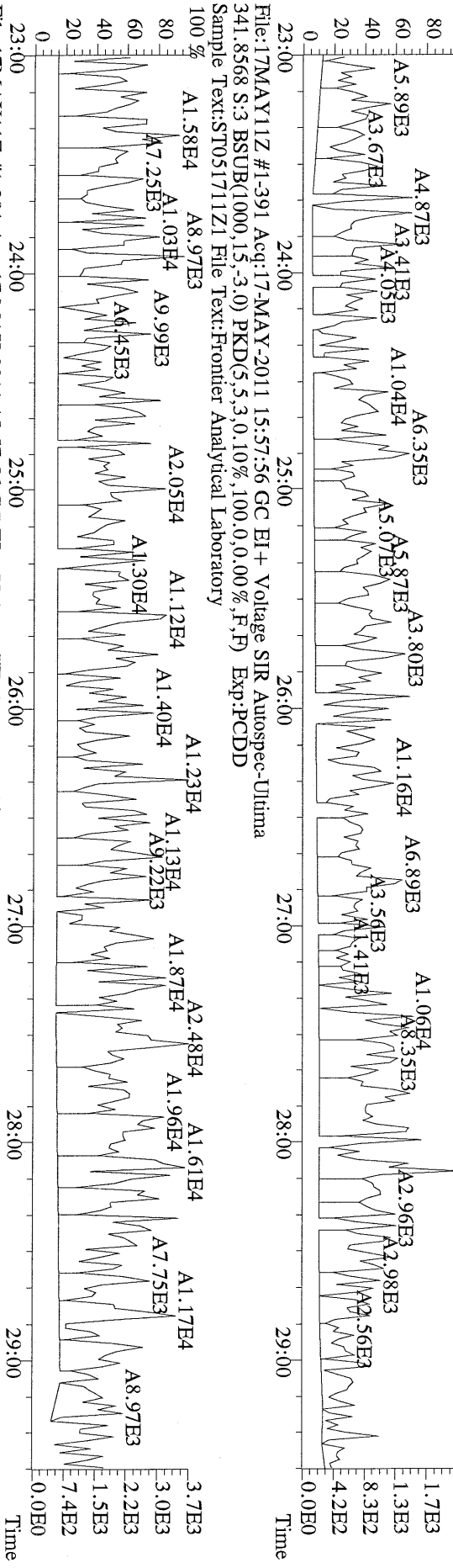
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471.7750 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
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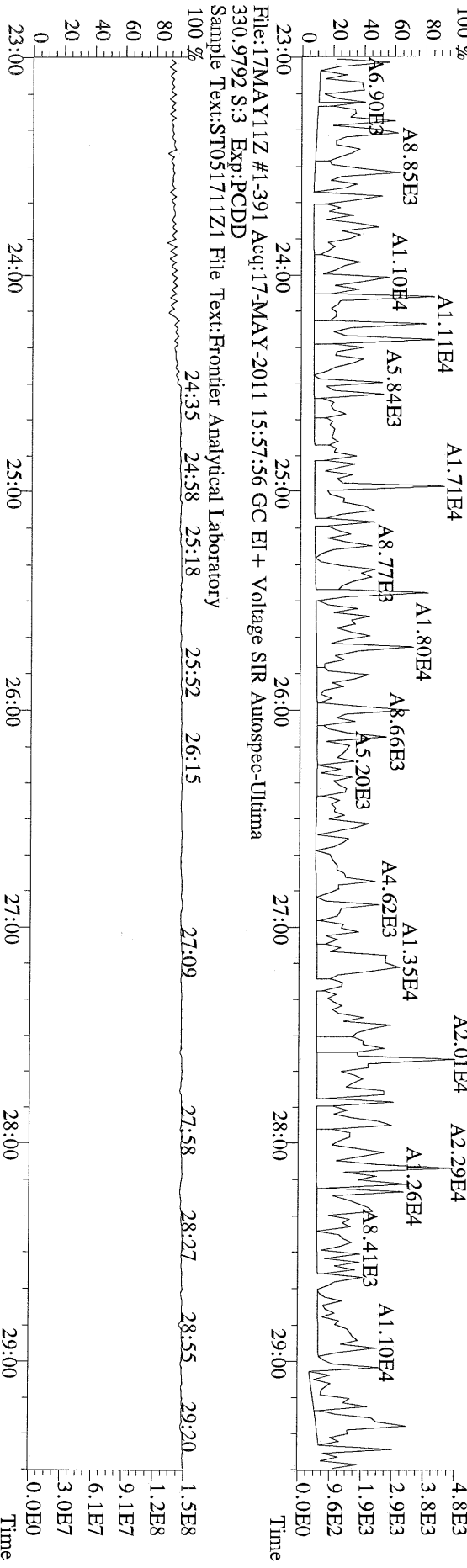
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454.9728 S:3 F:5 Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S.3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory

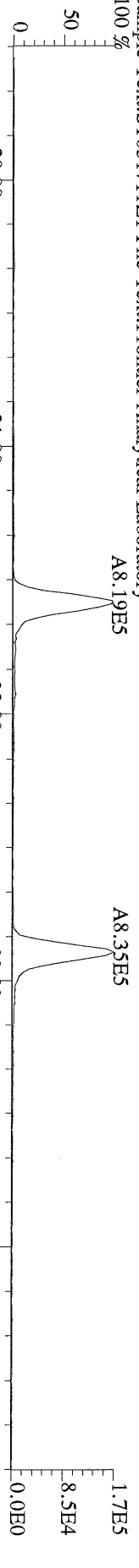


File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S.3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory

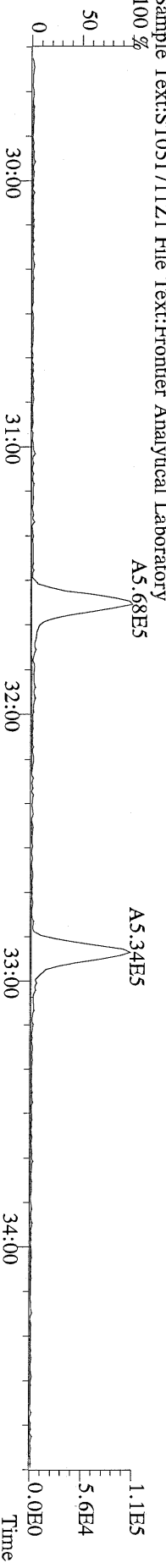


File:17MAY11Z #1-391 Acq:17-MAY-2011 15:57:56 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S.3 Exp:PCDD
 Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory

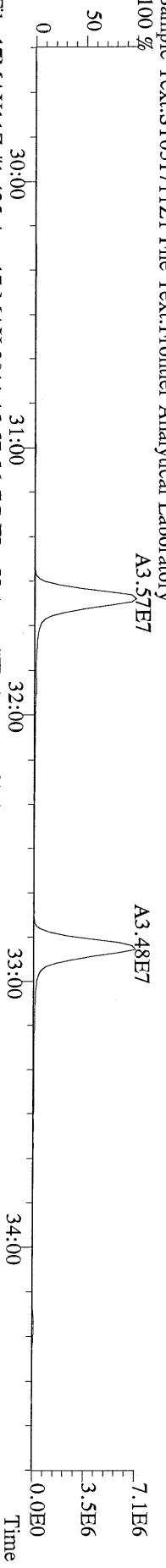
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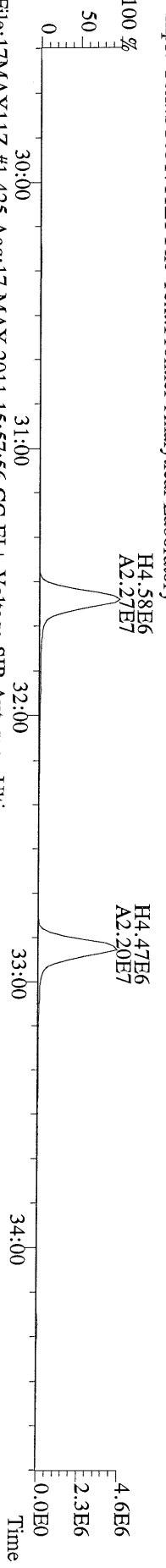
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 Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



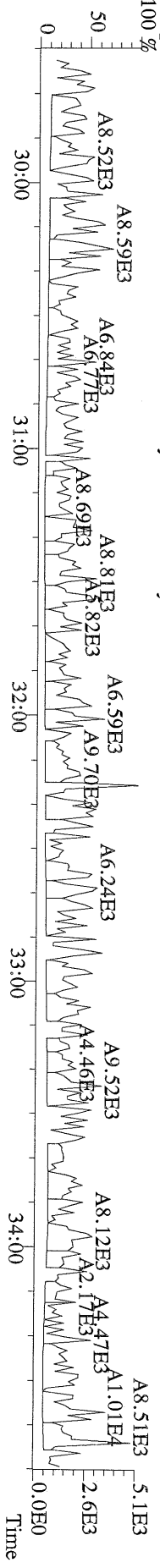
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 351.9000 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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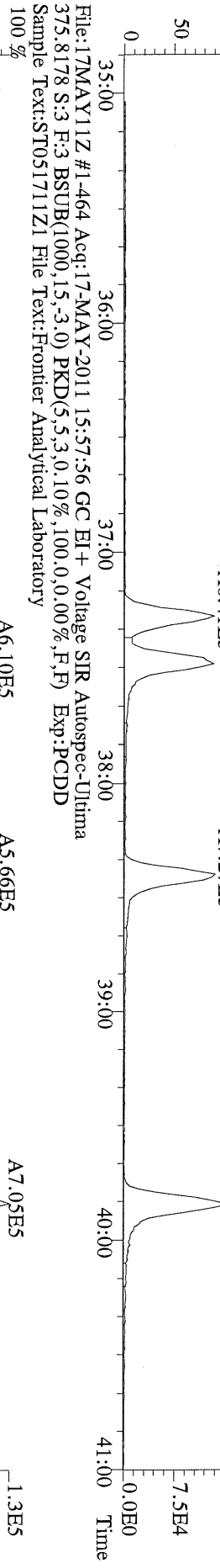
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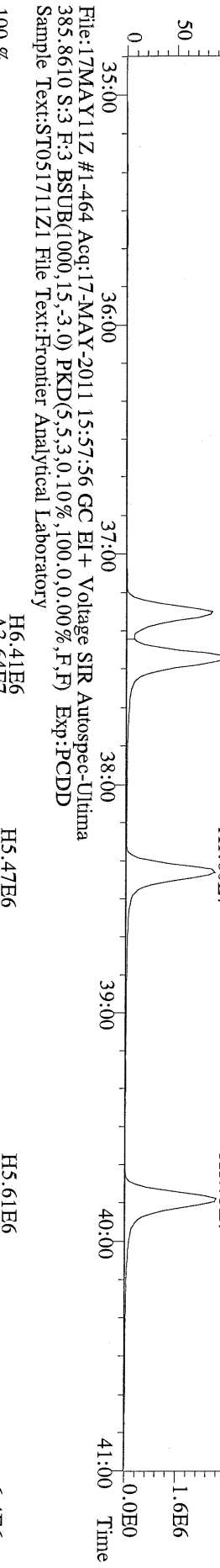
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 409.7974 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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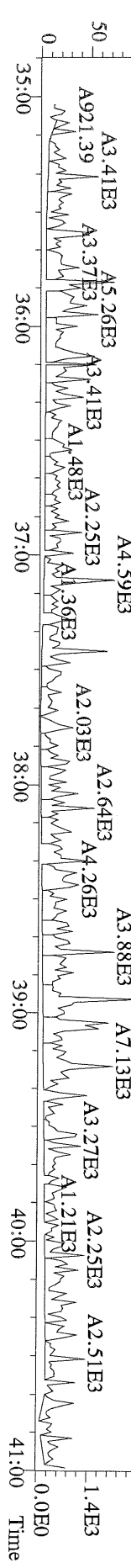
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373.8207 S:3 F:3 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



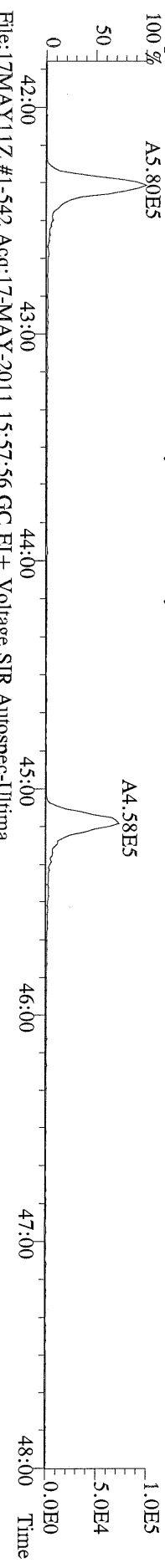
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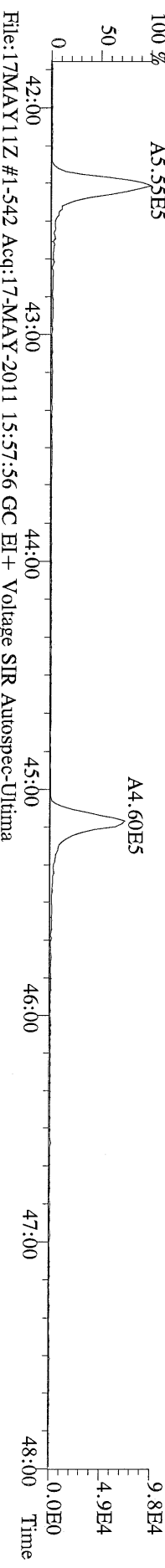
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445.7555 S:3 F:3 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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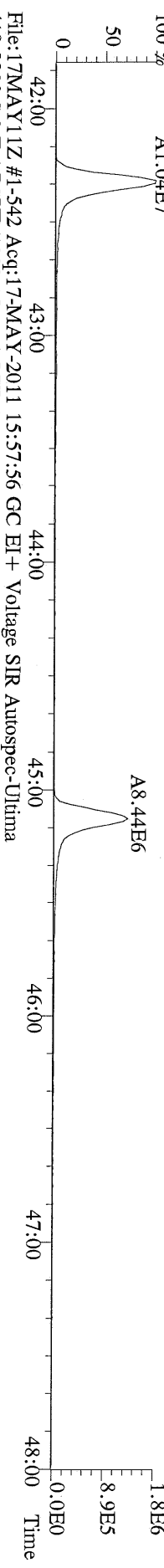
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407.7818 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



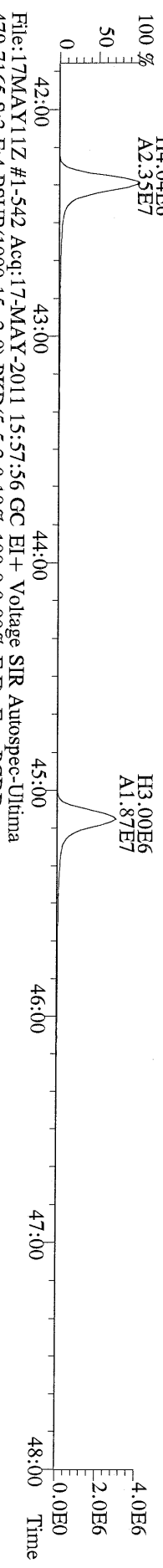
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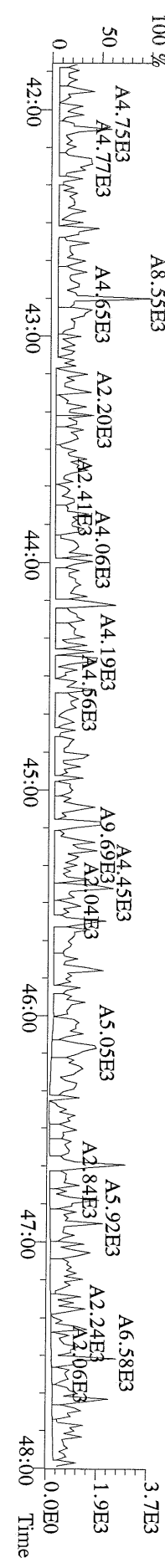
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417.8253 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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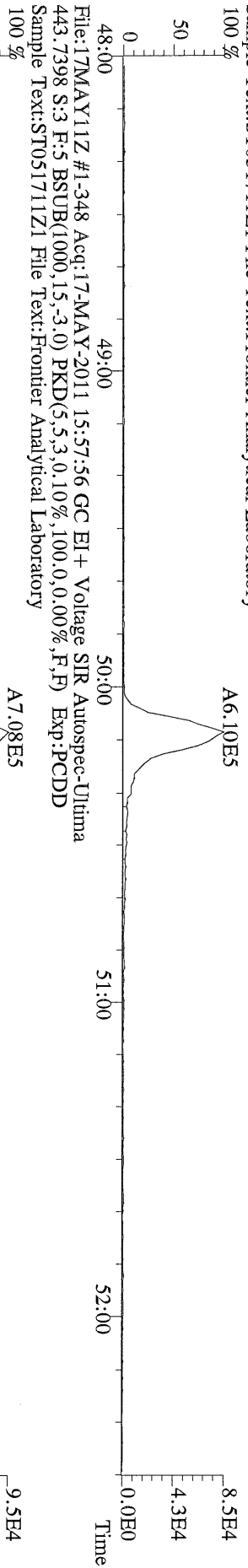
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419.8220 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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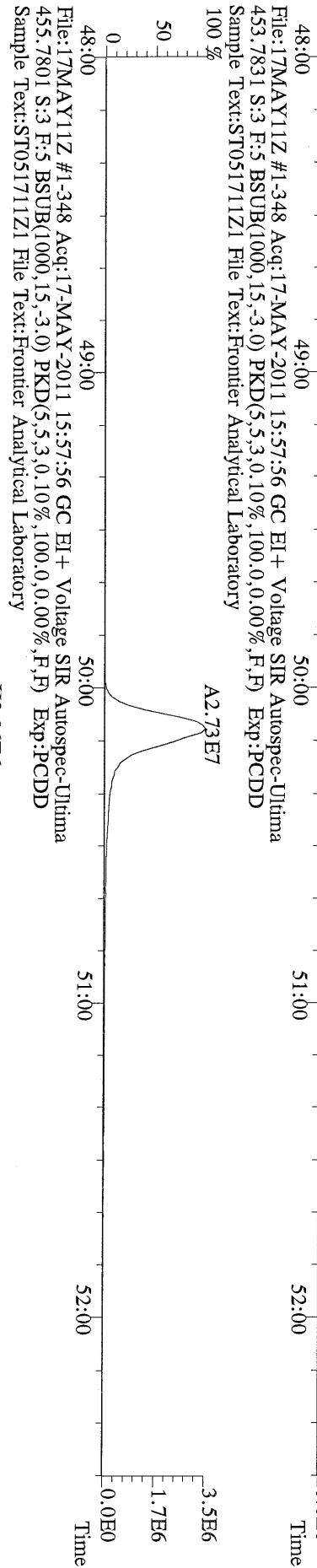
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479.7165 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



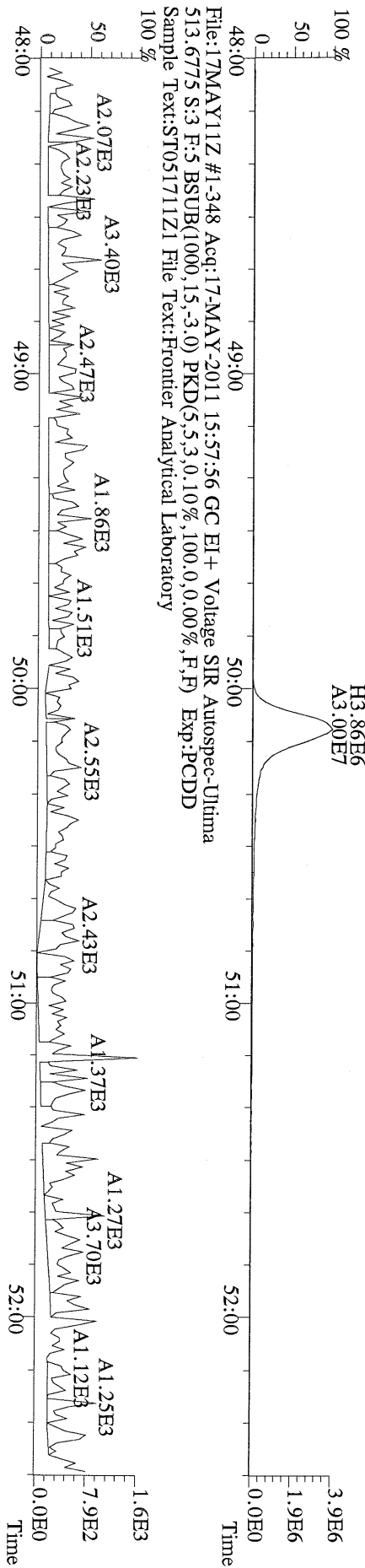
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441.7428 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



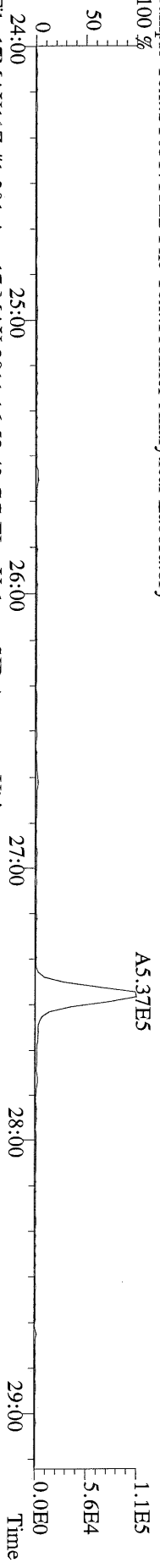
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453.7831 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



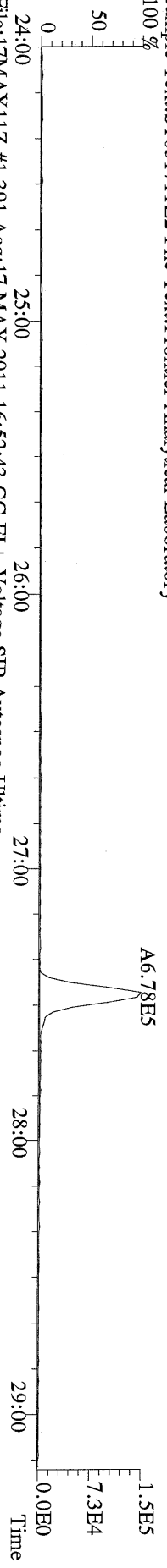
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513.6775 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z1 File Text:Frontier Analytical Laboratory



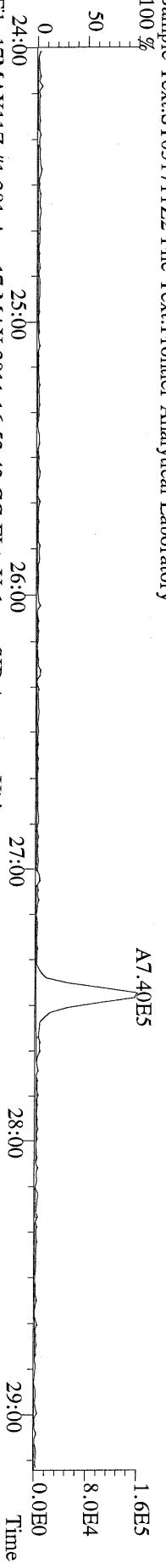
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319.8965 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



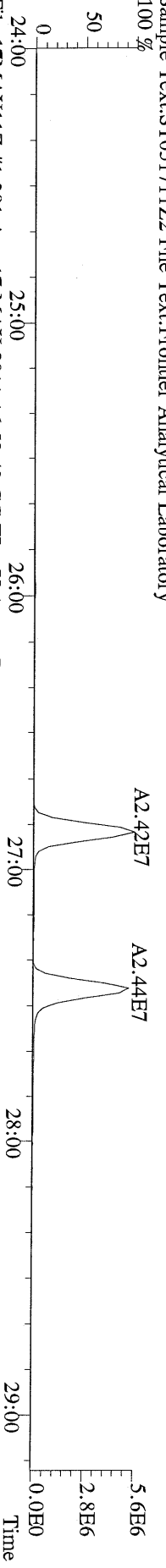
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321.8936 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
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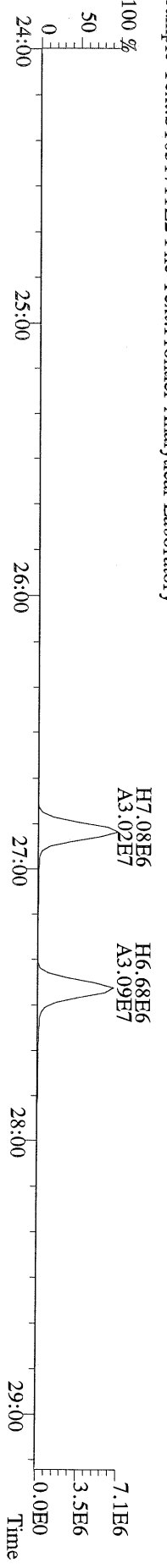
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327.8847 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
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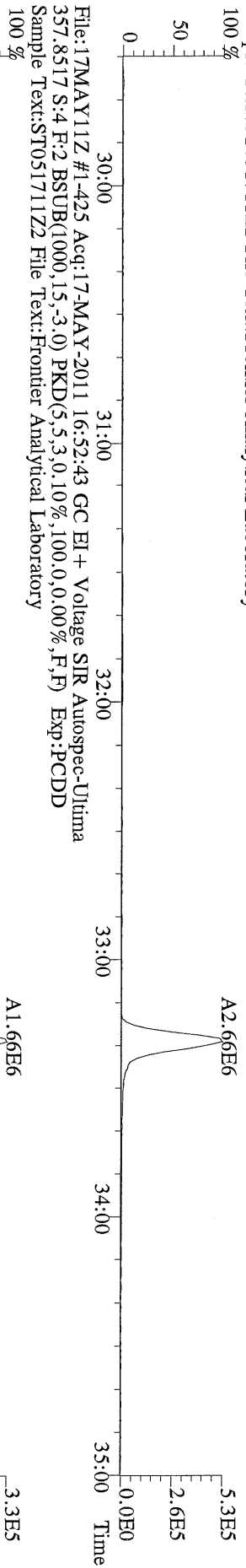
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331.9368 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



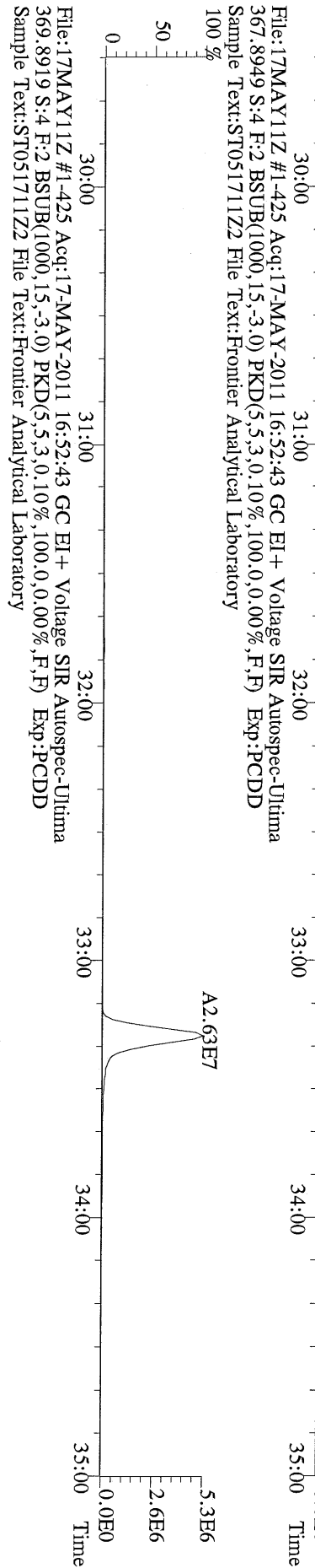
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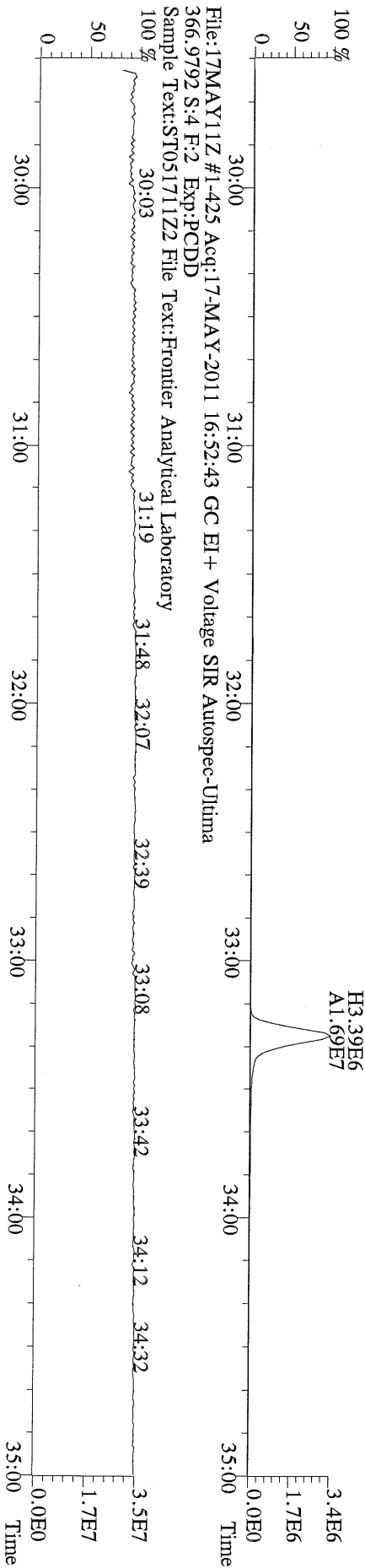
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
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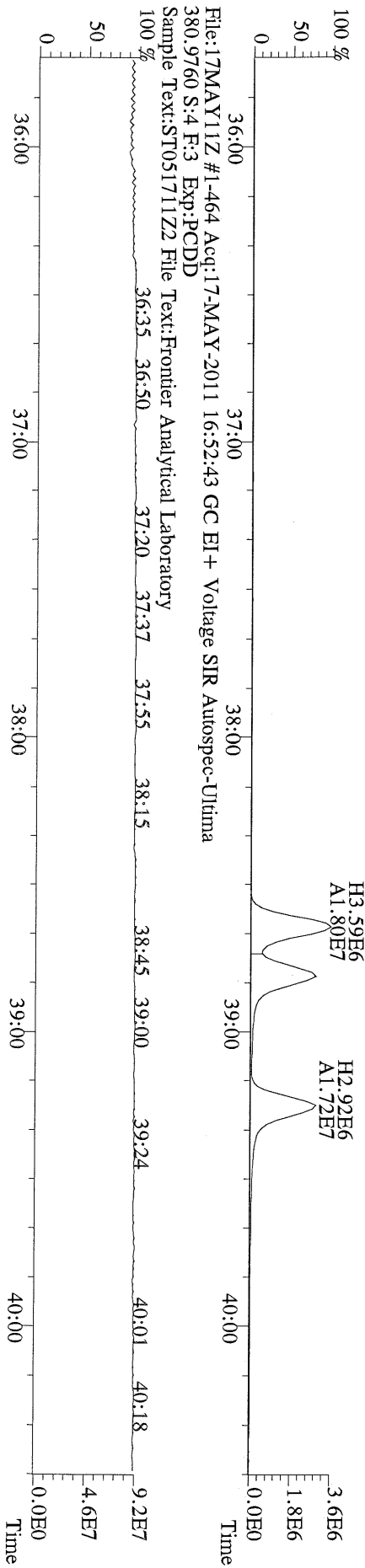
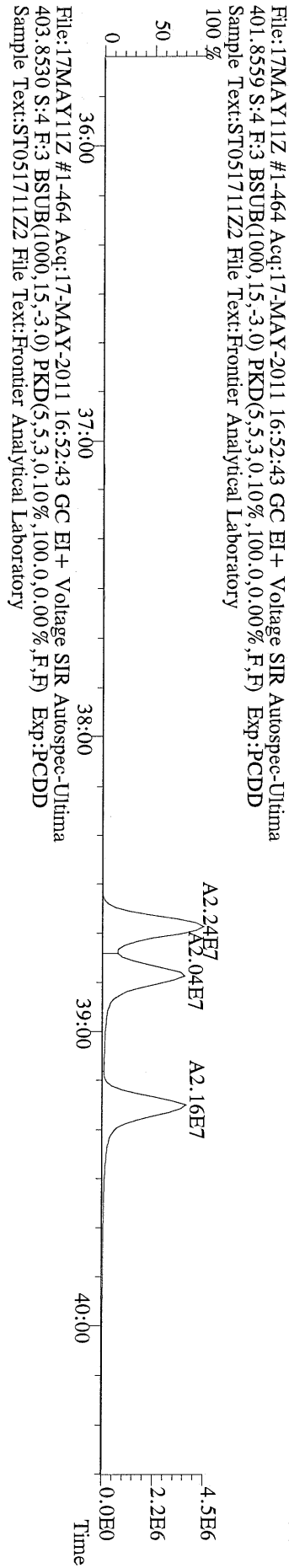
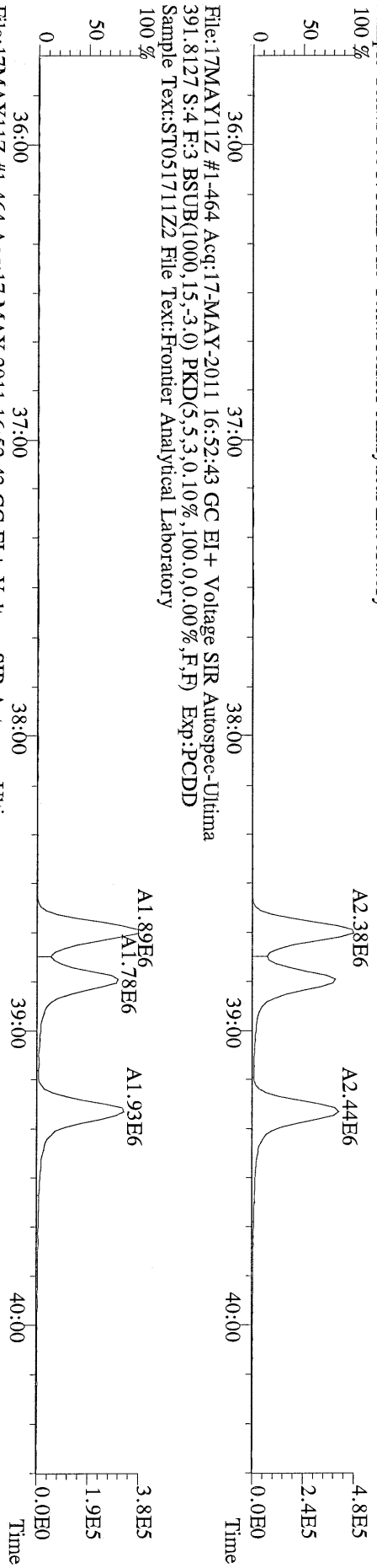
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
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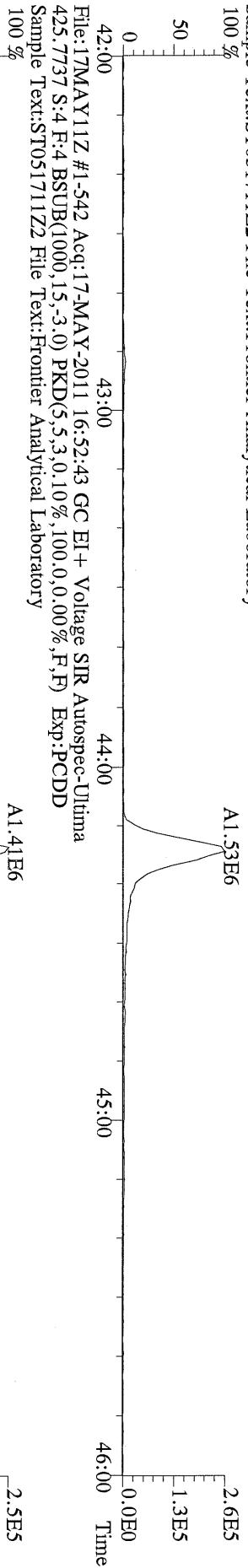
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



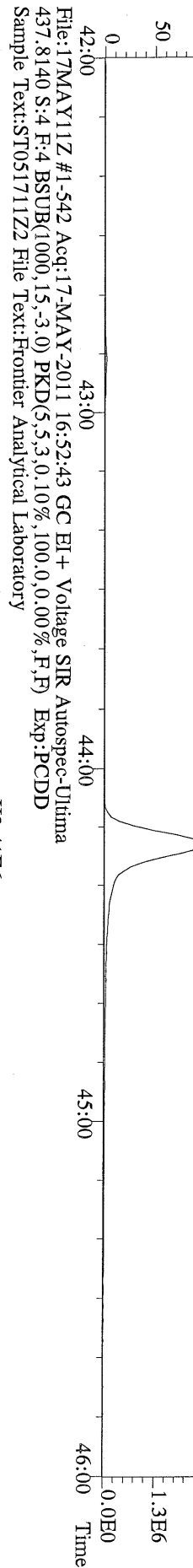
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



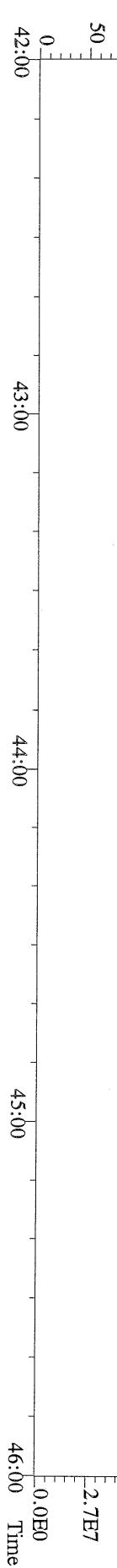
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



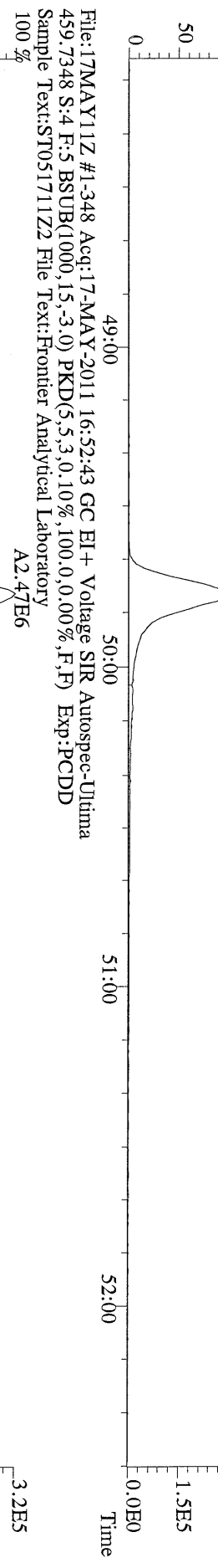
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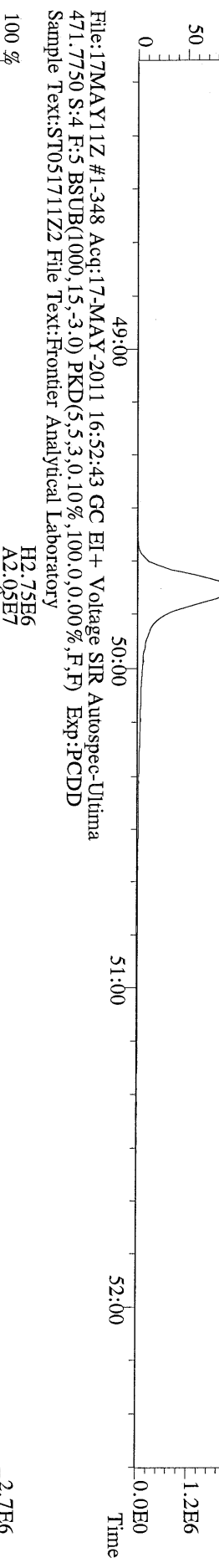
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



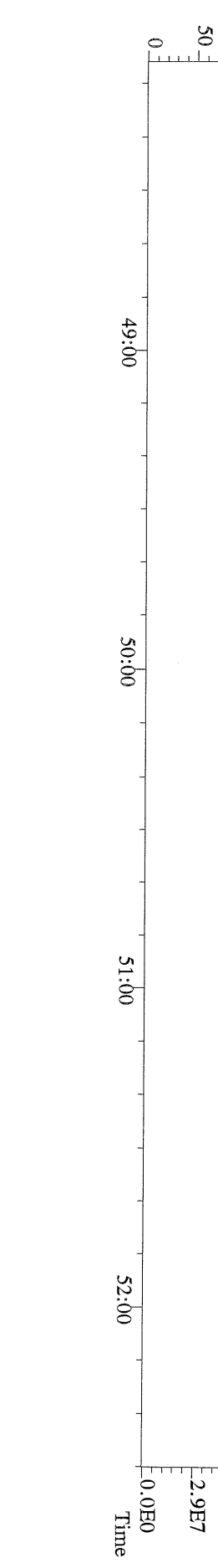
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



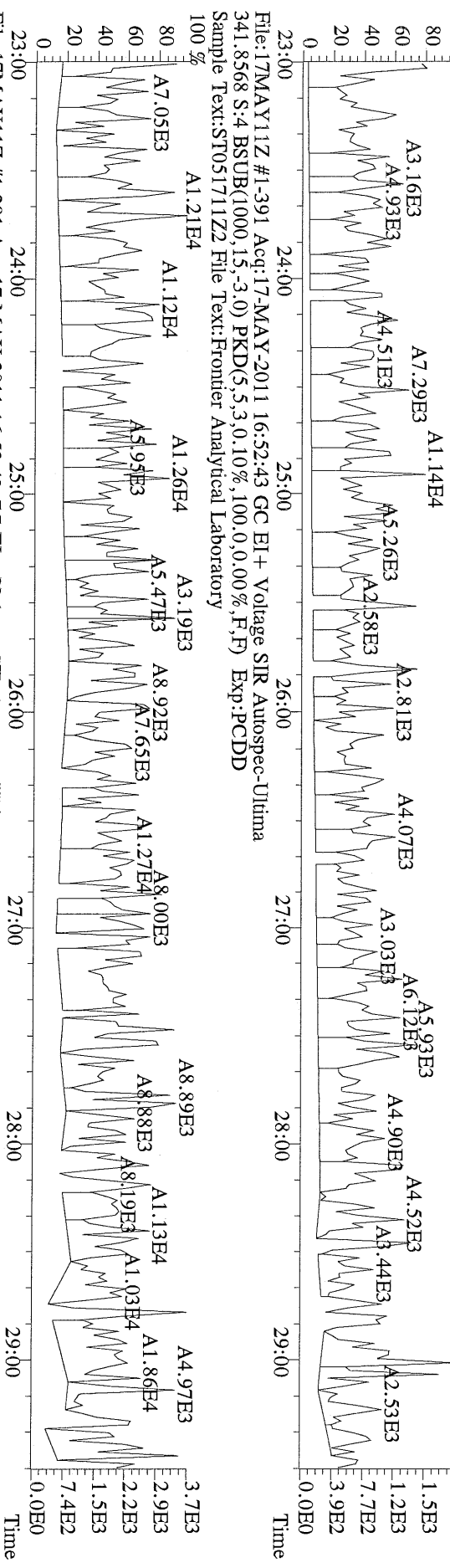
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469.7780 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



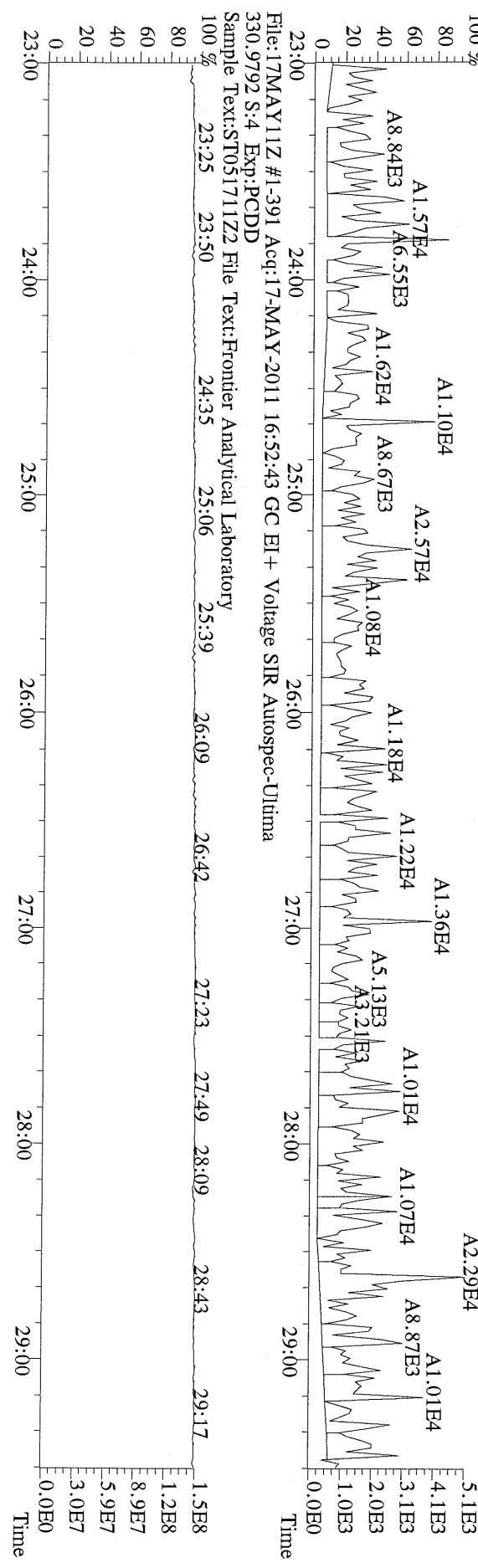
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471.7750 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory
100 %



File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory

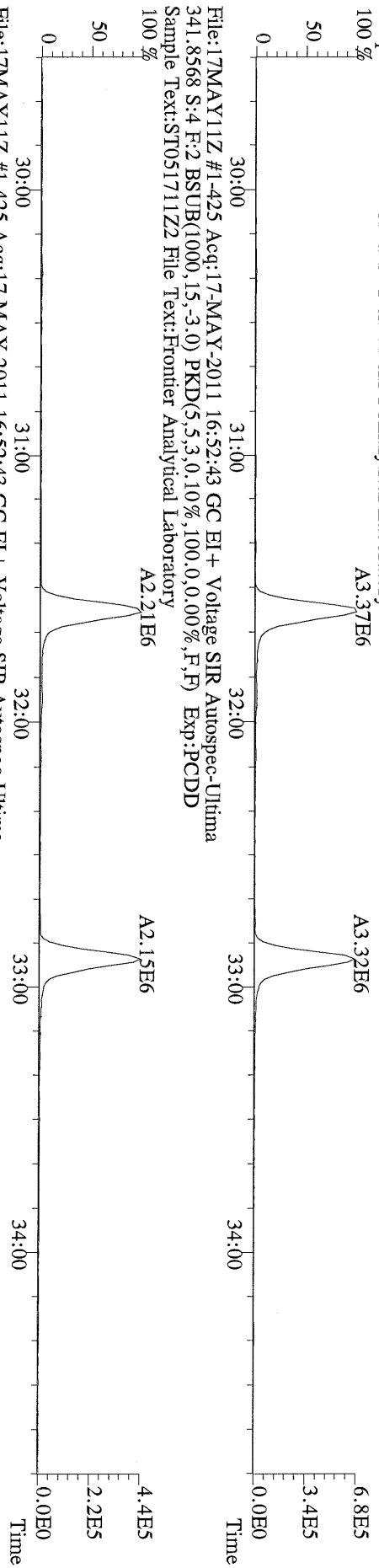


File:17MAY11Z #1-391 Acq:17-MAY-2011 16:52:43 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory

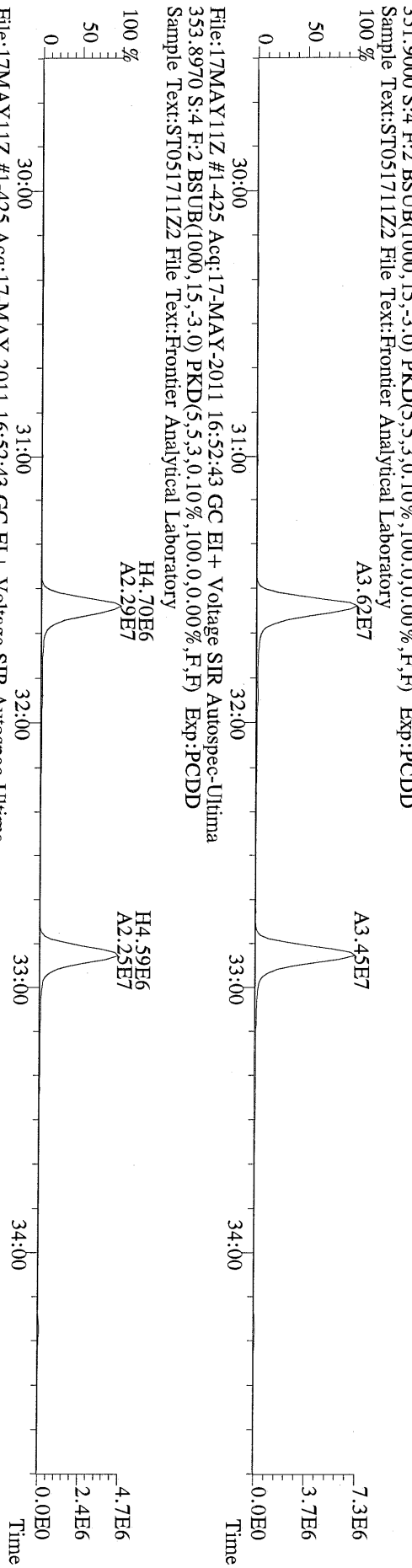


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 330.9792 S:4 Exp:PCDD
 Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory

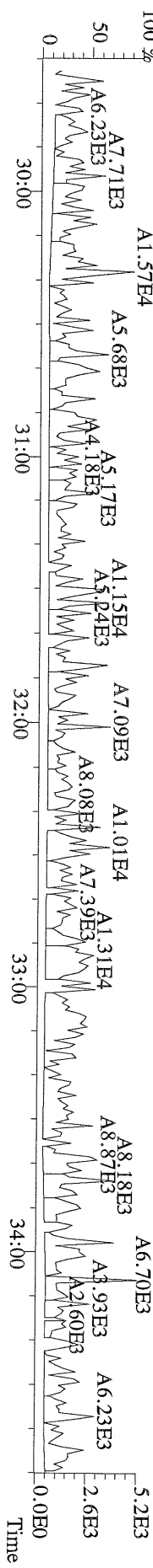
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339.8597 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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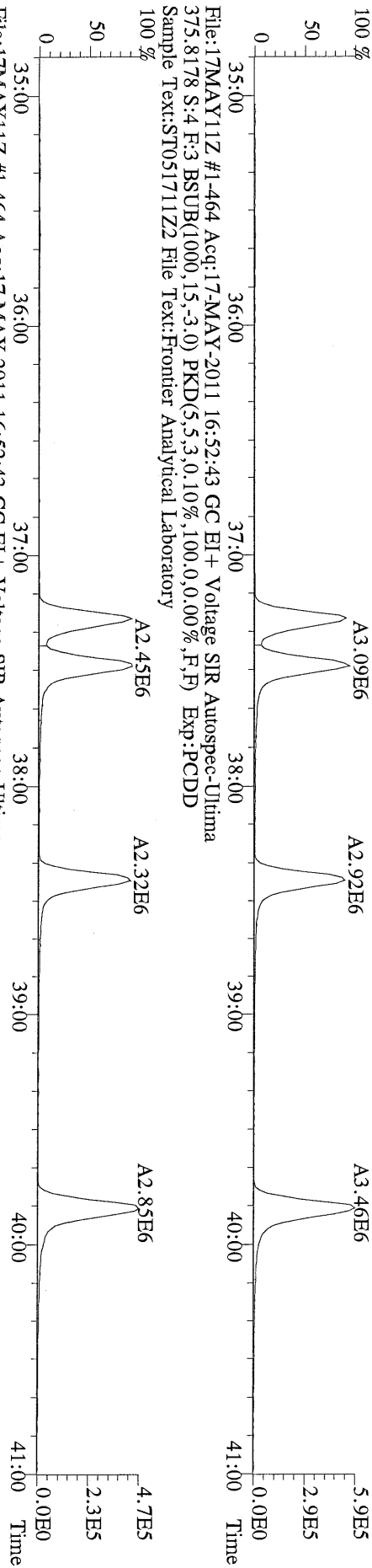
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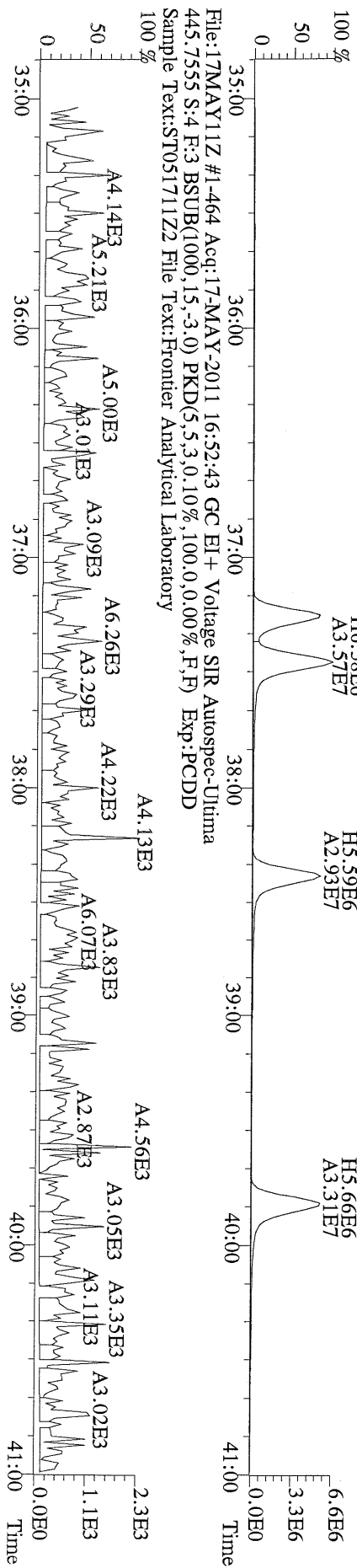
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409.7974 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



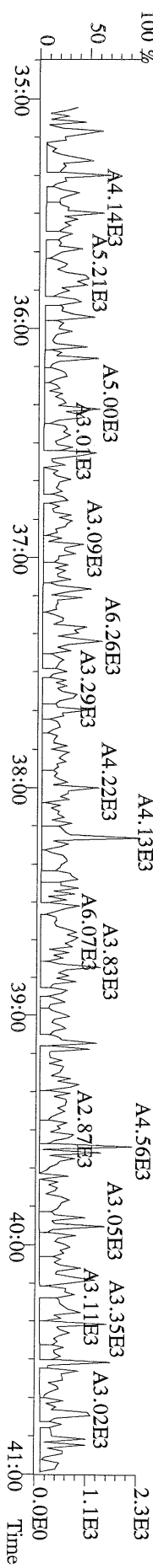
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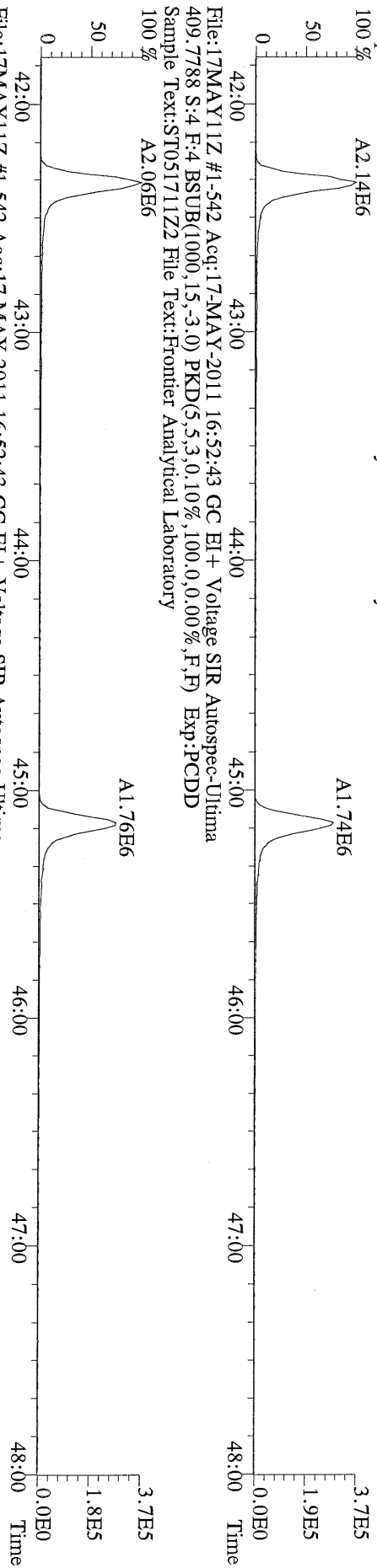
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383.8639 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



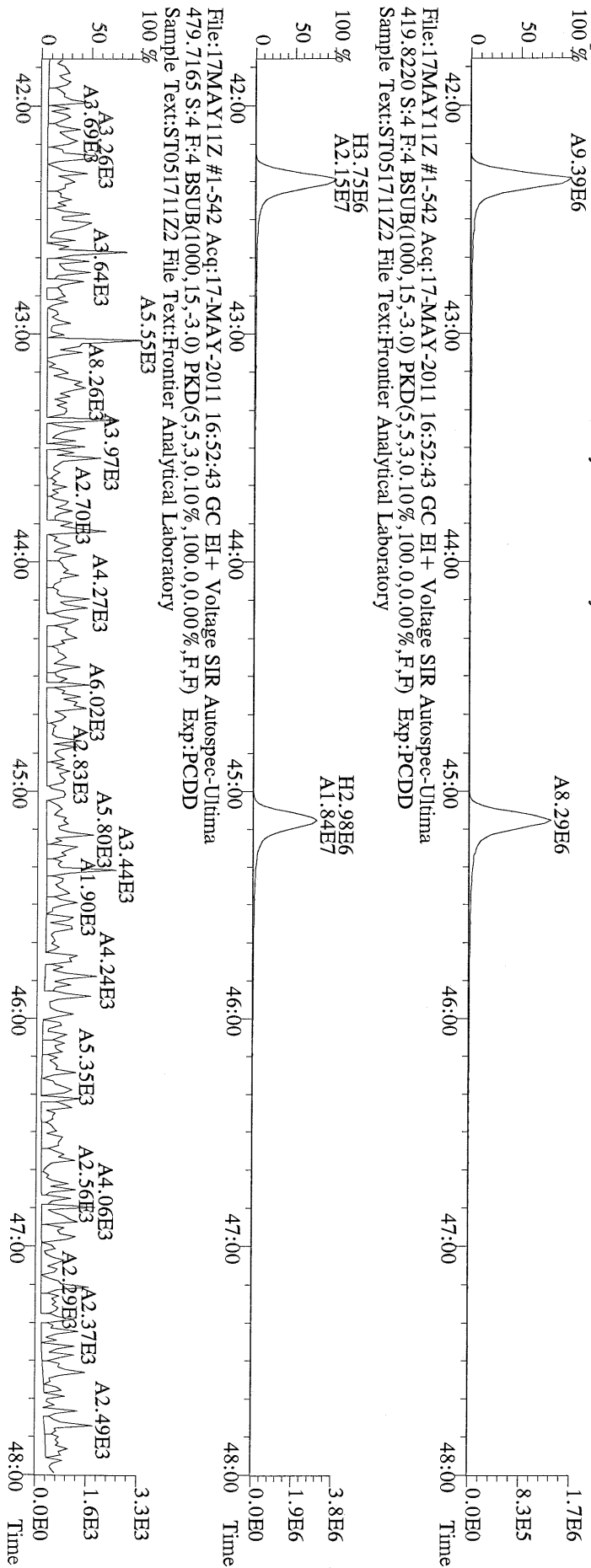
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445.7555 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



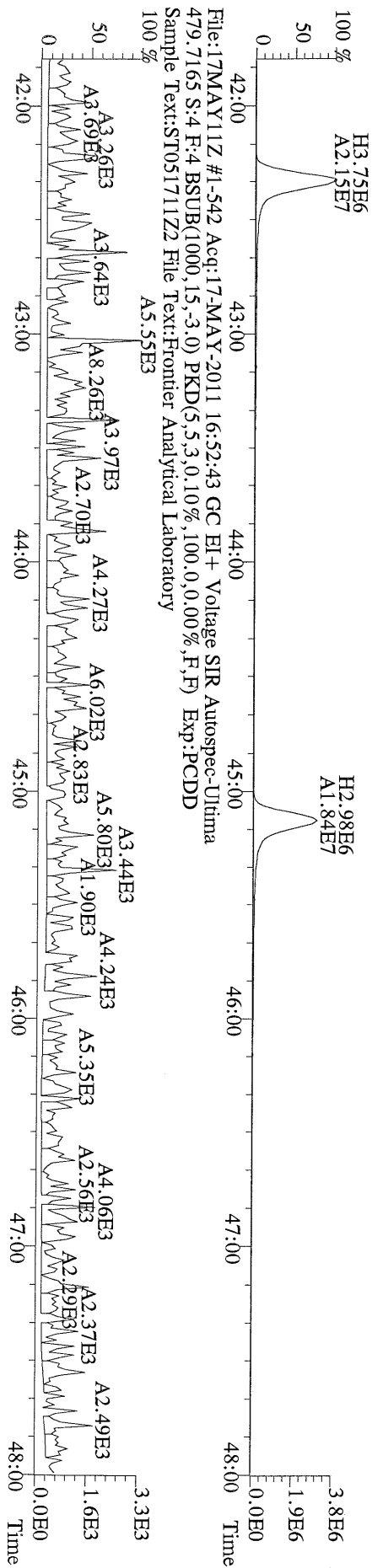
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Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



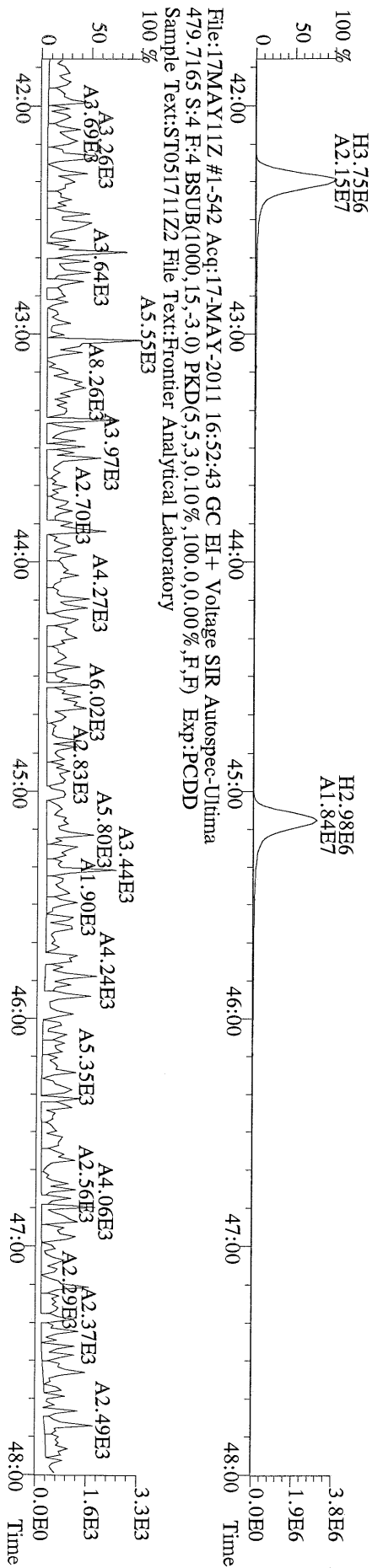
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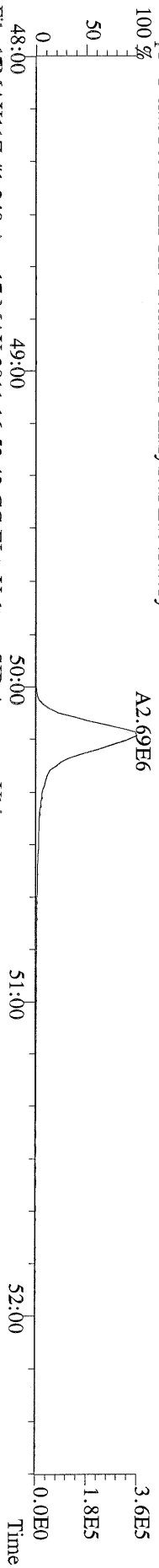
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419.8220 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



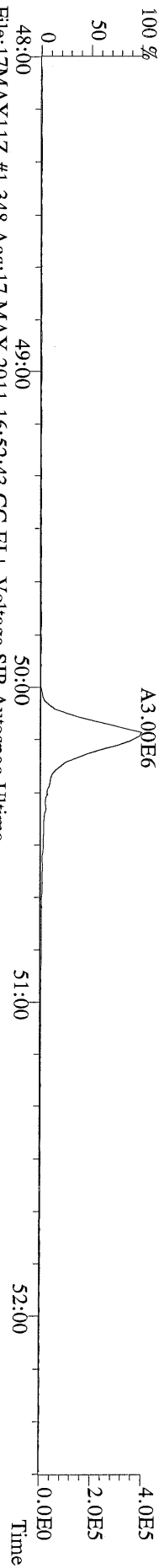
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479.7165 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



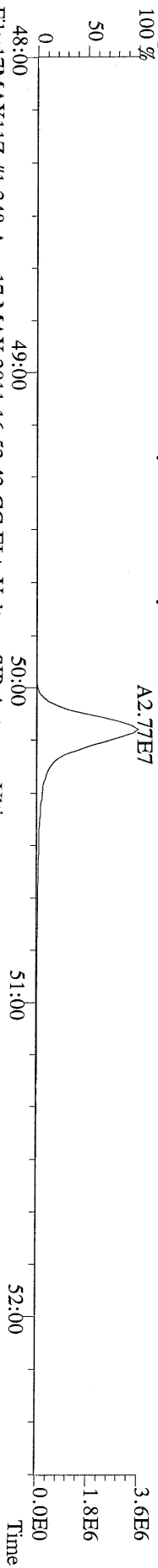
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441.7428 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



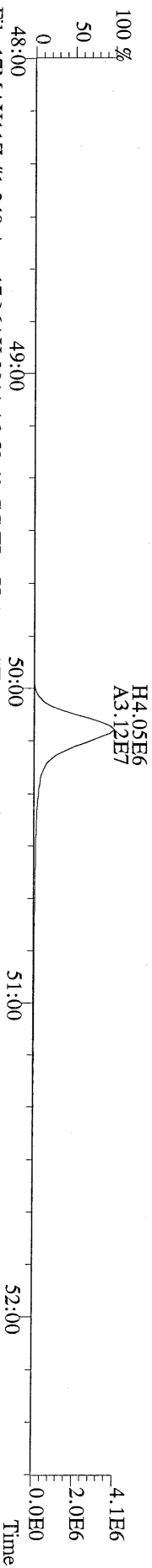
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443.7398 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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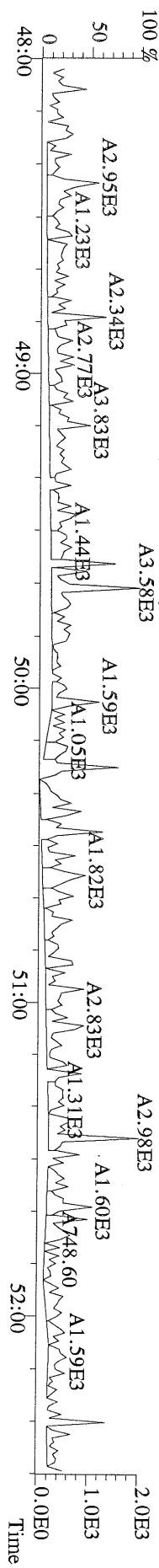
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453.7831 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z2 File Text:Frontier Analytical Laboratory



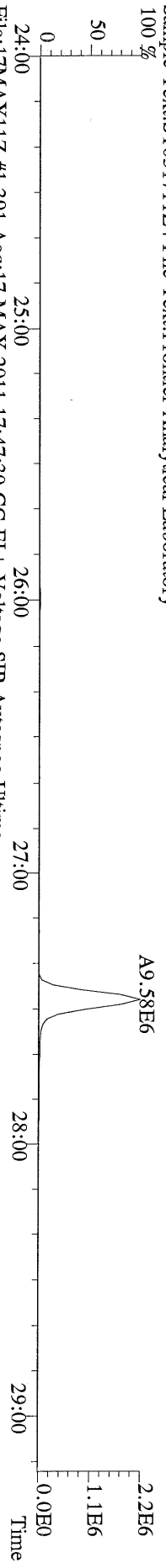
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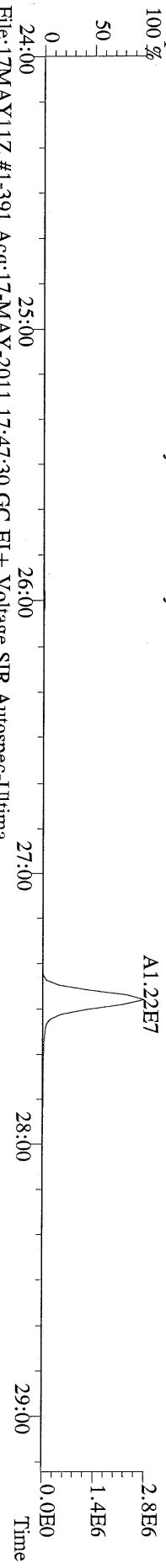
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513.6775 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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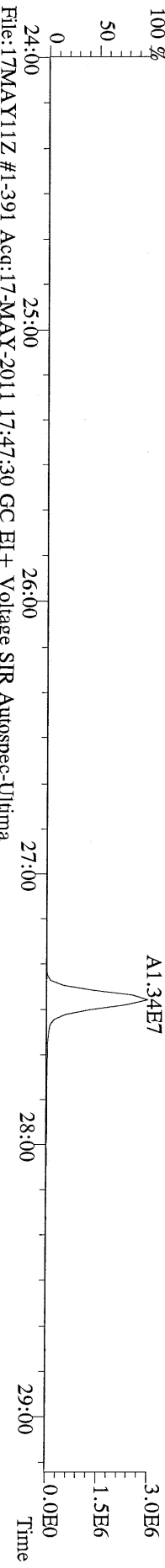
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319.8965 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



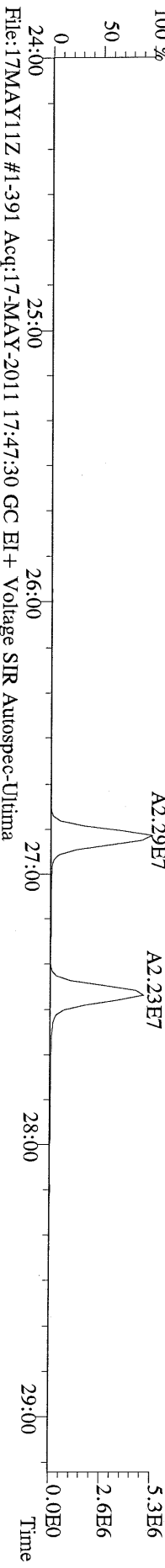
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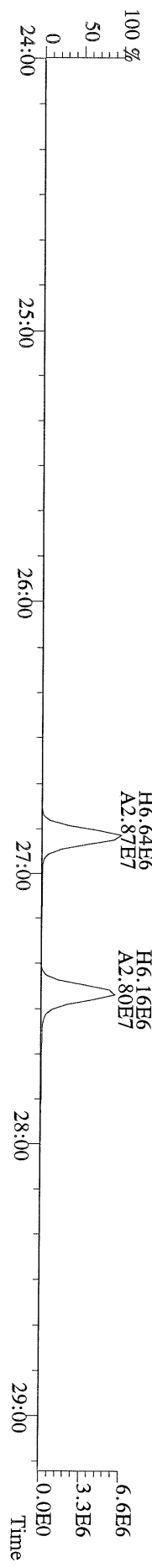
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327.8847 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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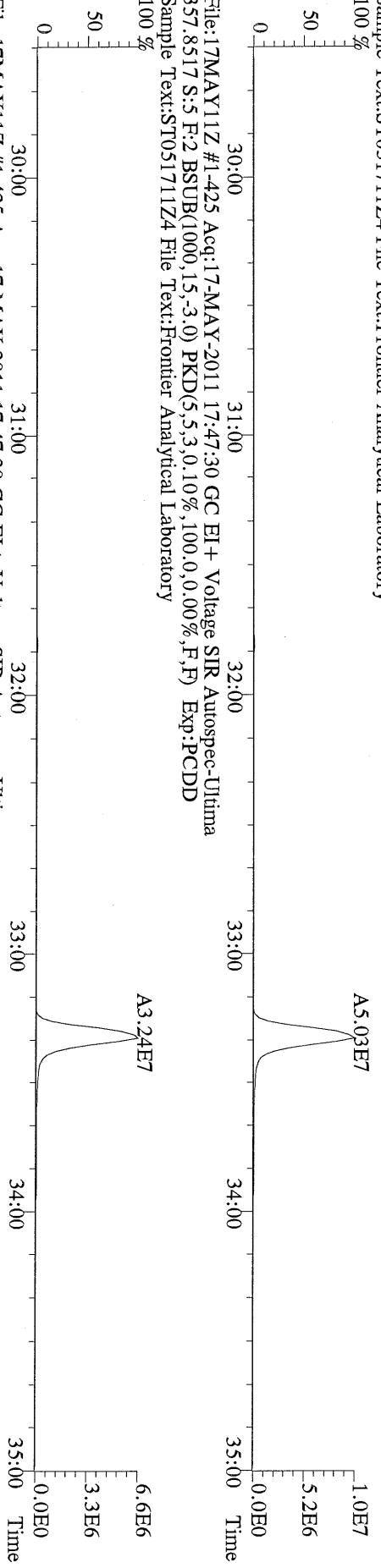
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331.9368 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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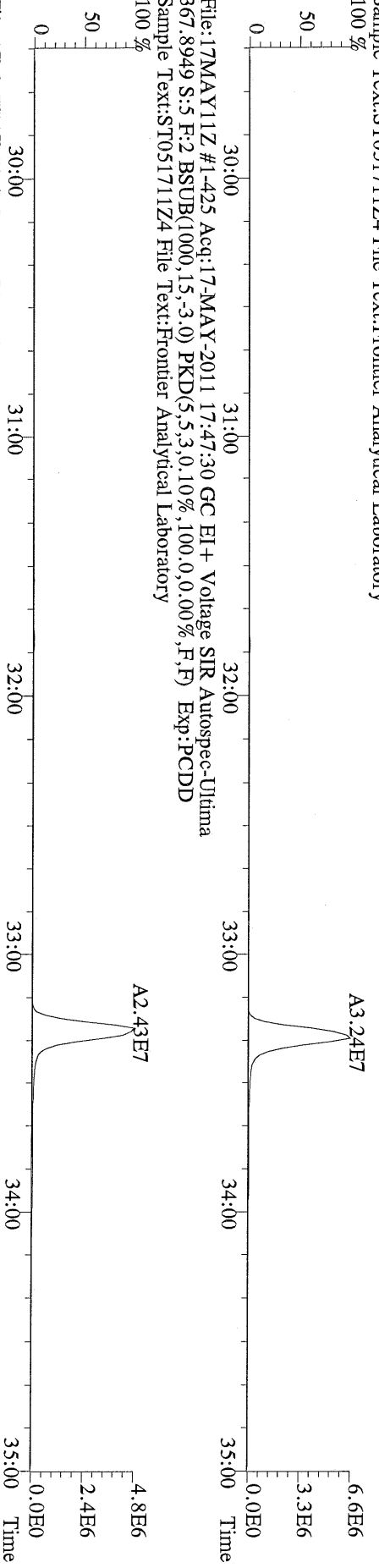
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333.9339 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



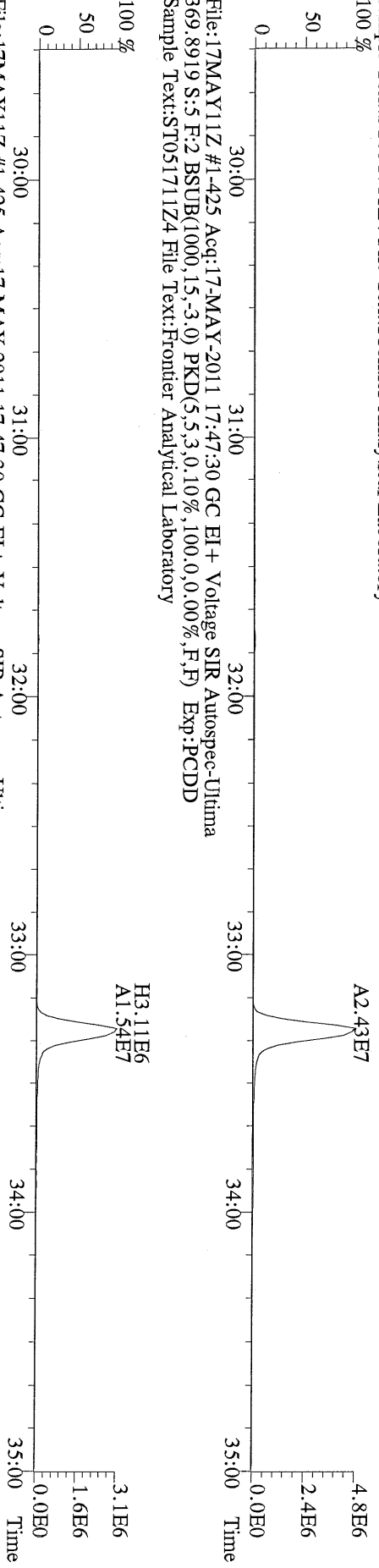
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355.8546 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
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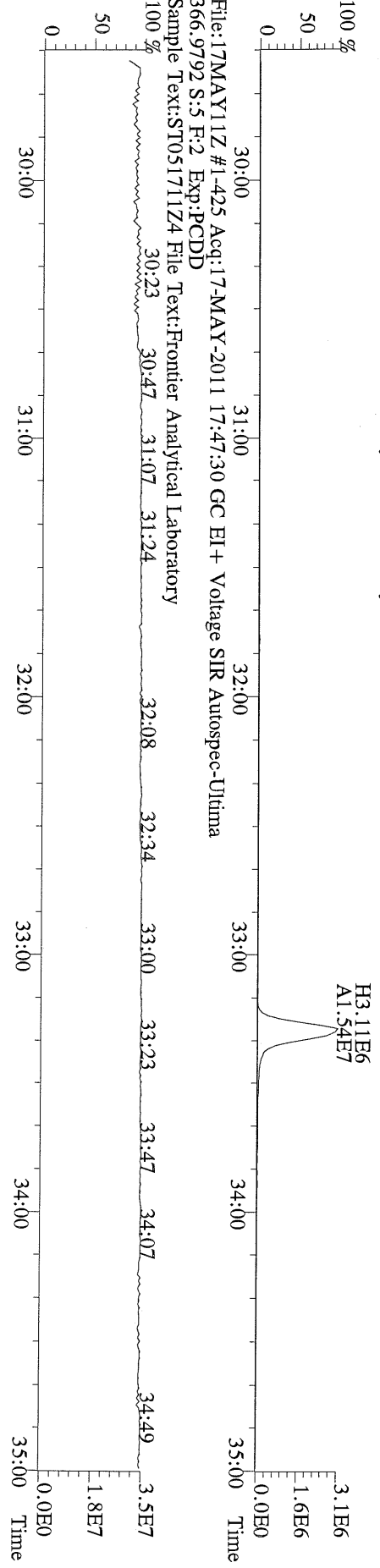
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357.8517 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



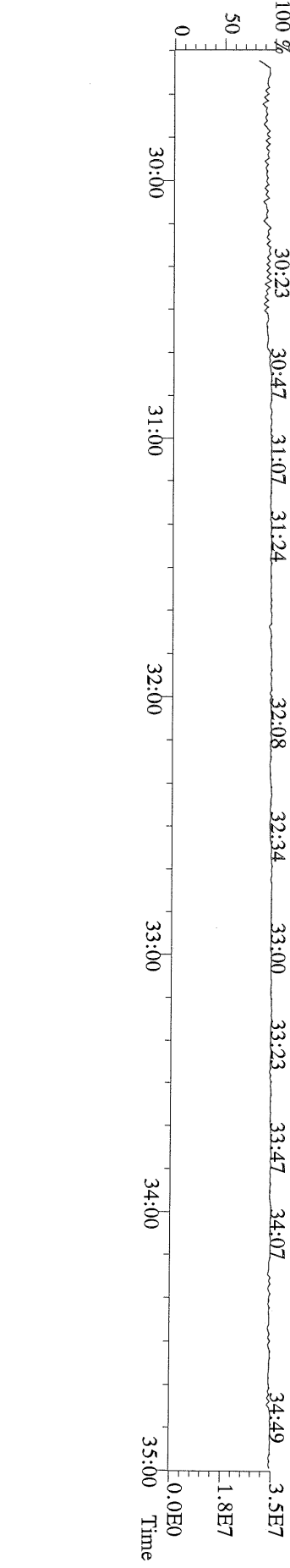
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367.8949 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
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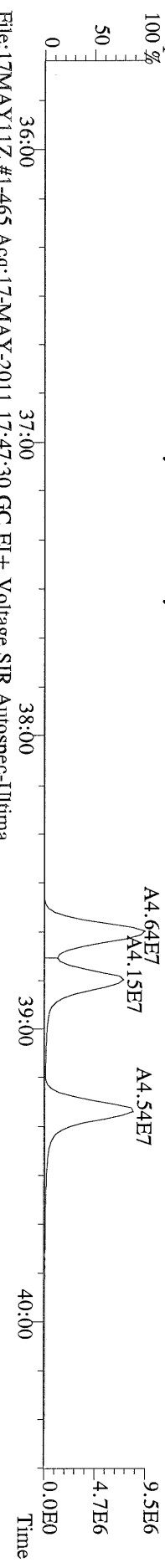
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369.8919 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



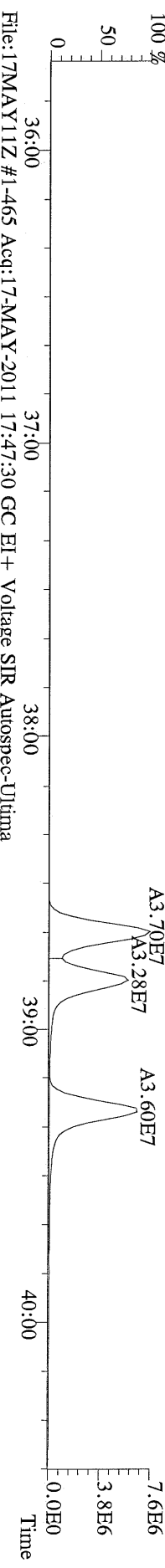
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366.9792 S:5 F:2 Exp:PCDD
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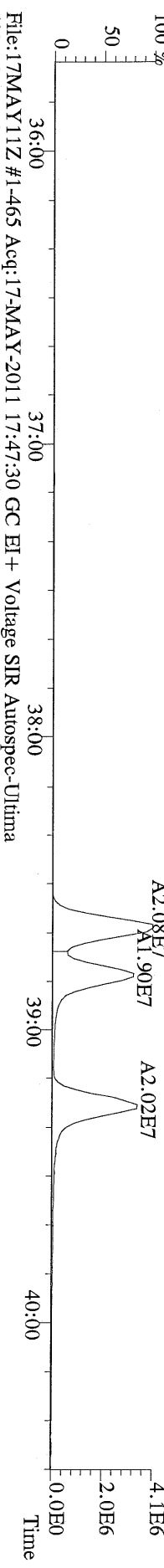
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 389.8156 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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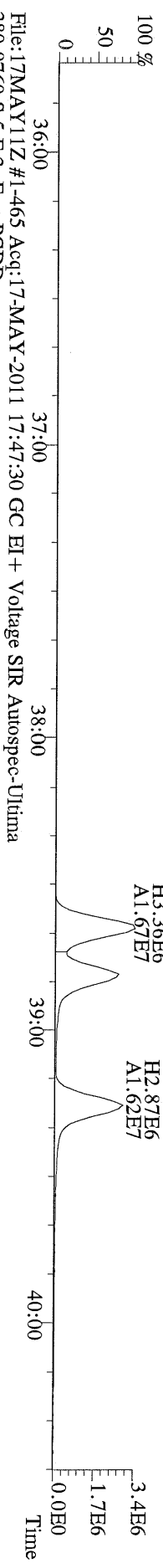
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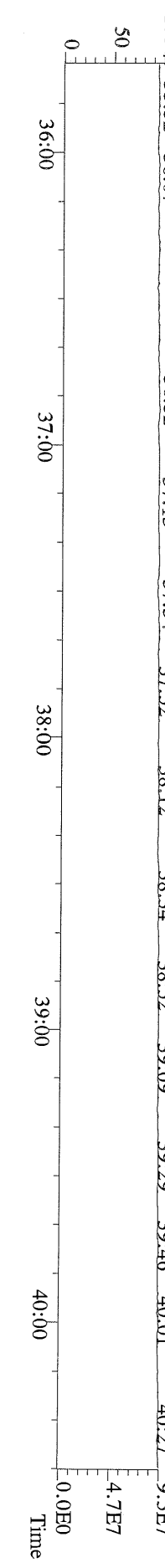
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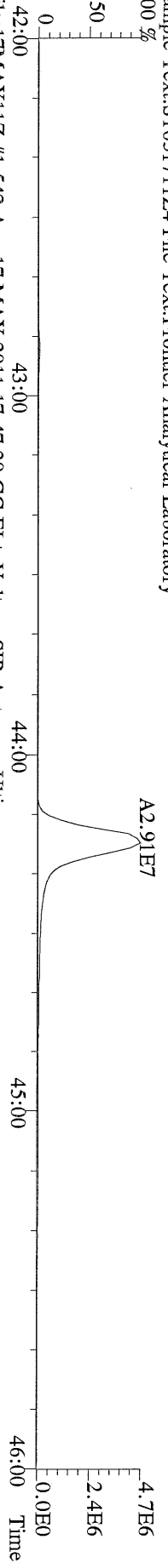
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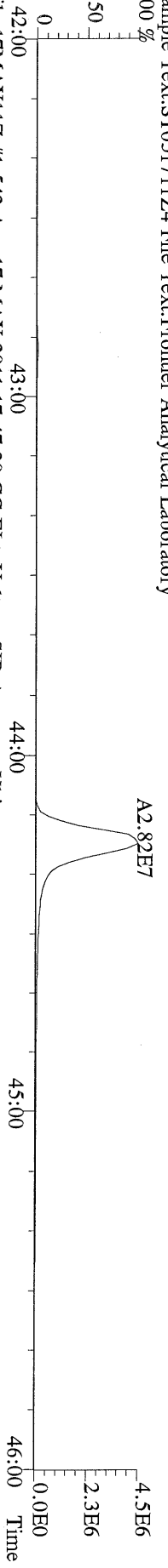
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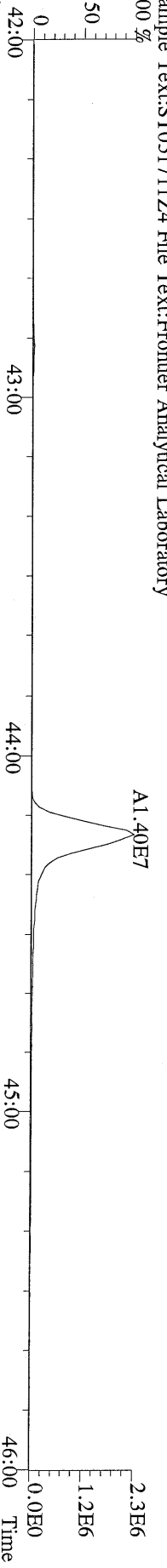
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



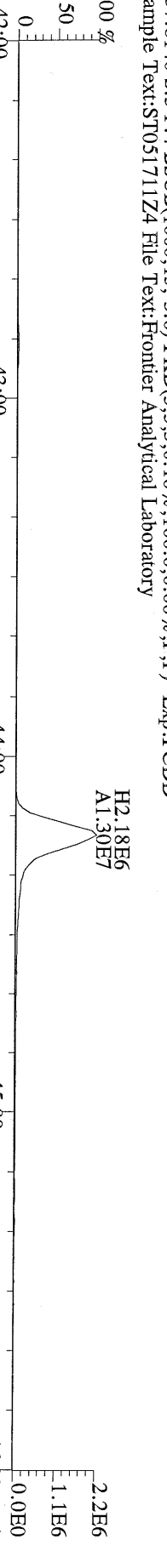
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



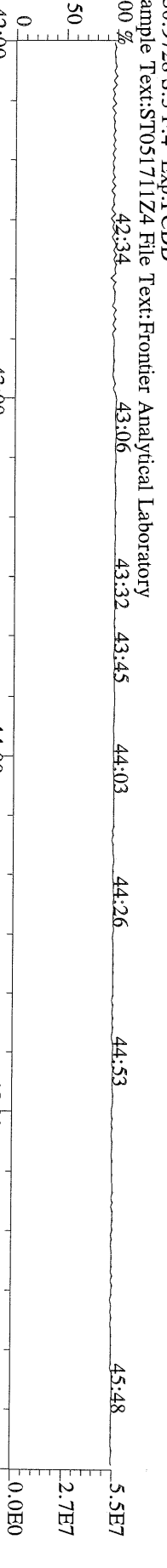
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



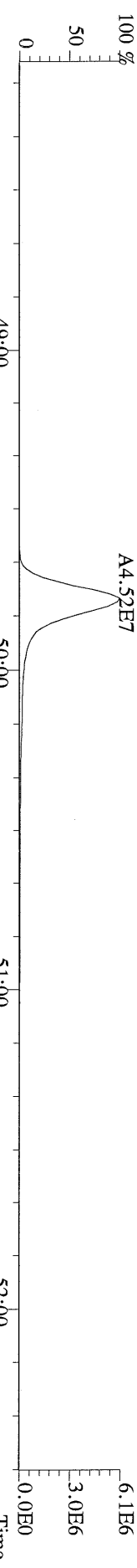
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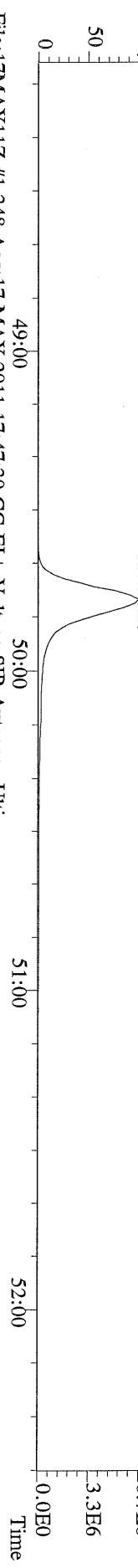
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



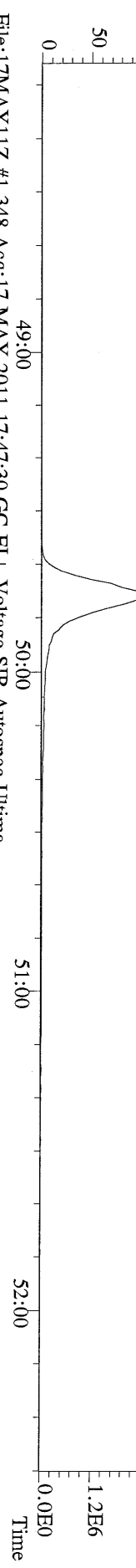
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



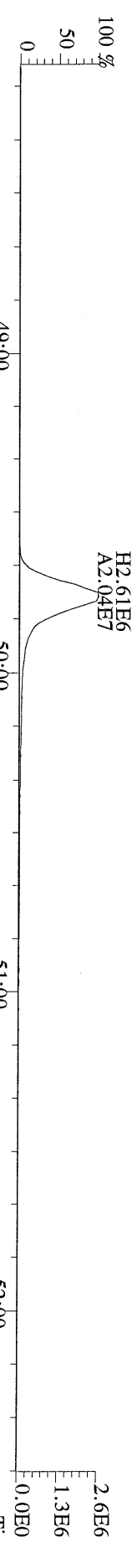
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



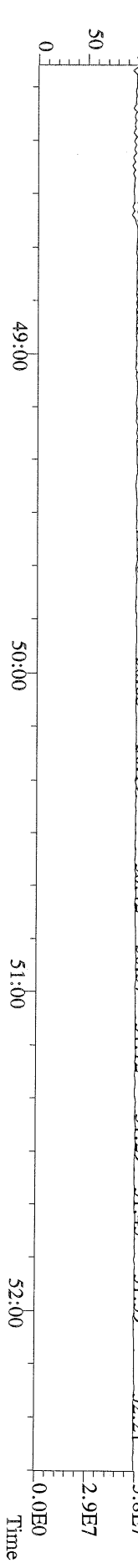
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory
100 %



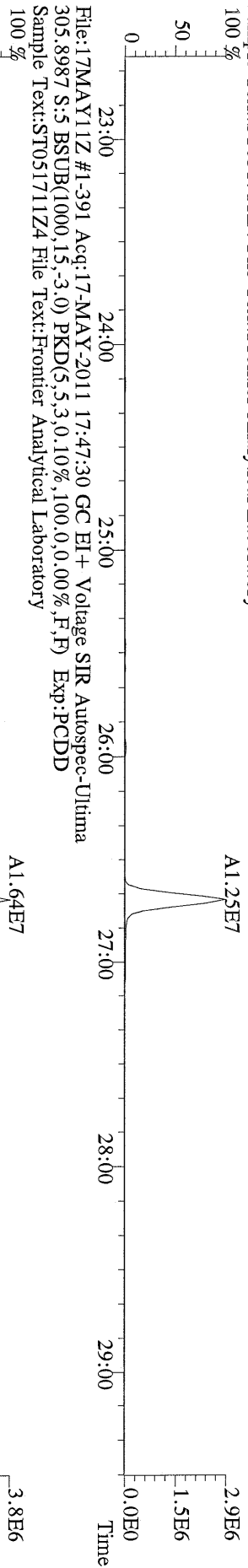
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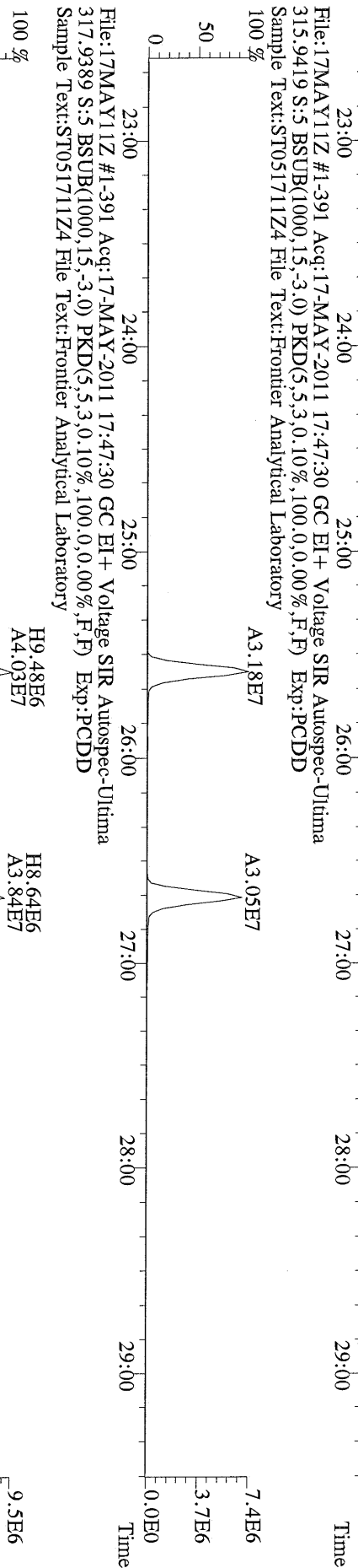
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



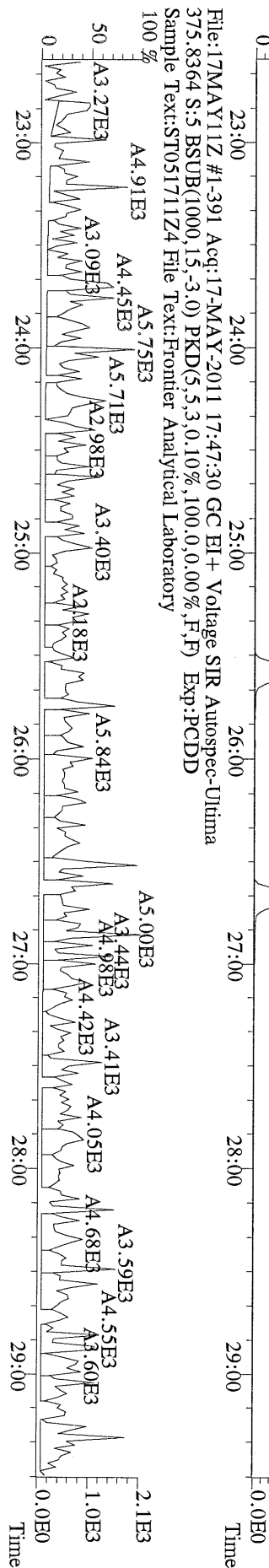
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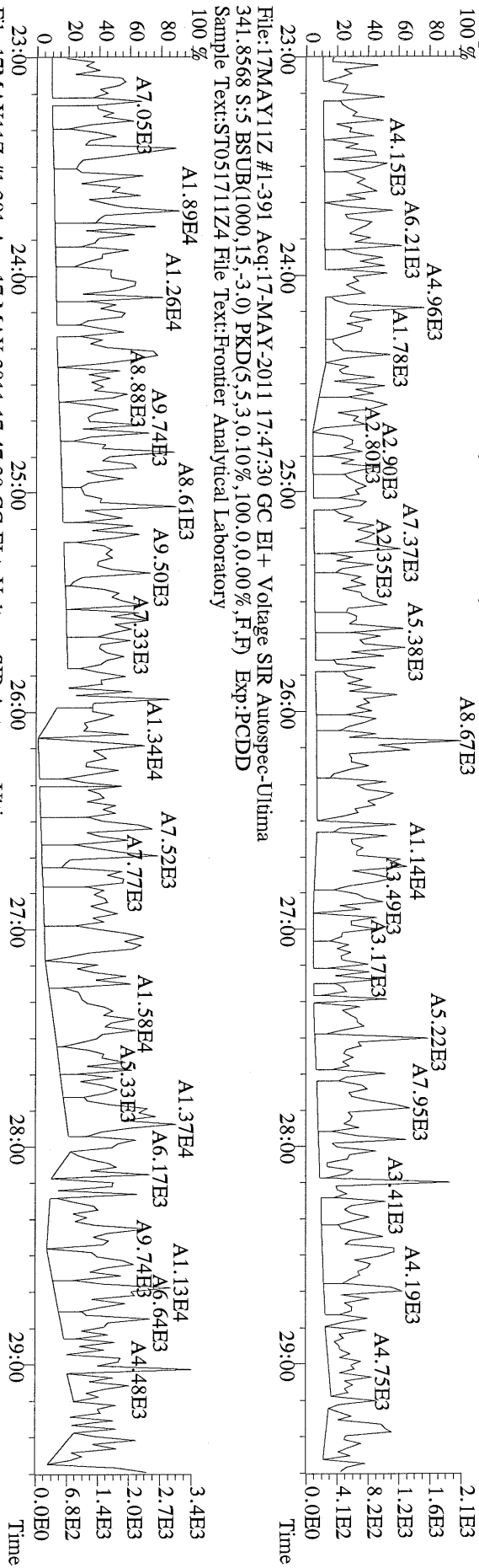
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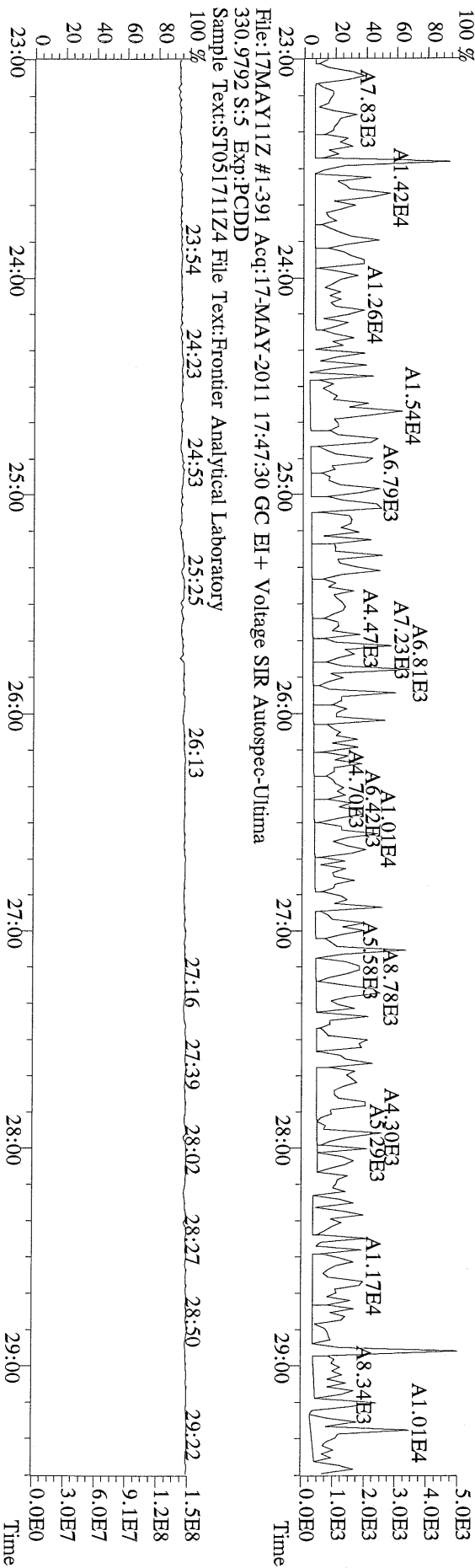
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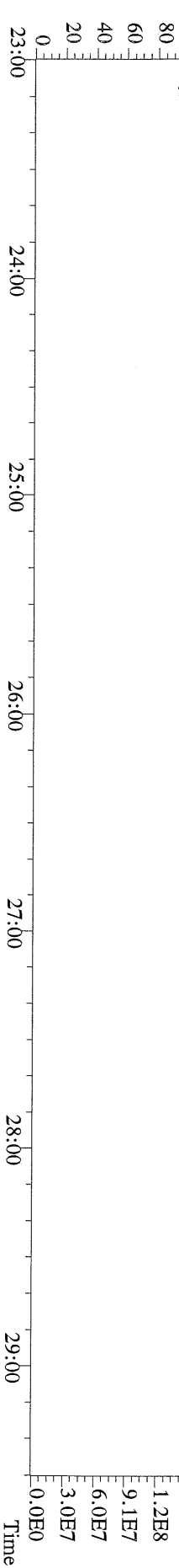
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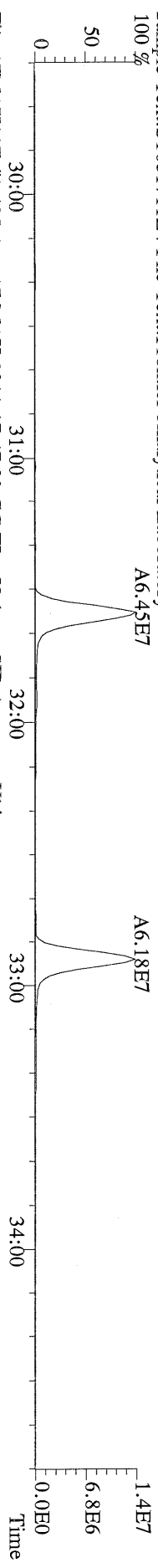
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 409.7974 S:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



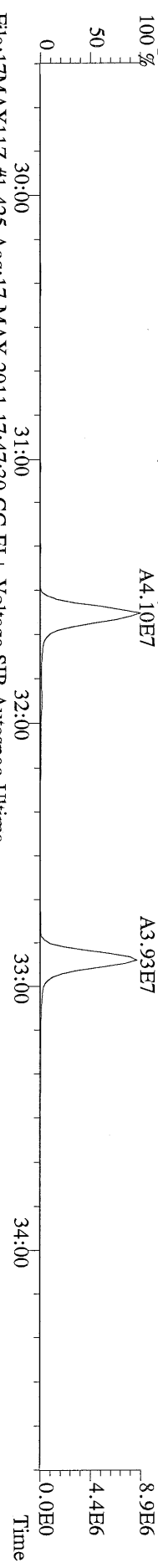
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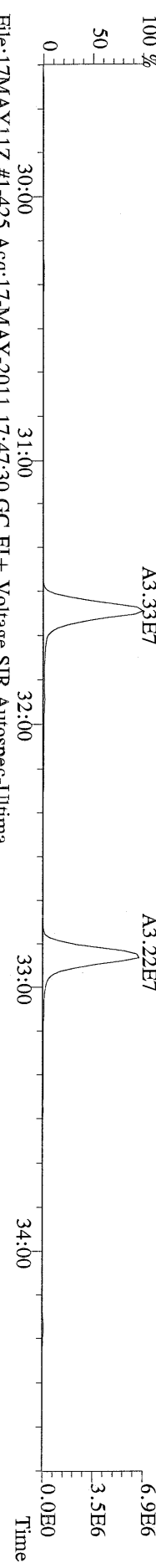
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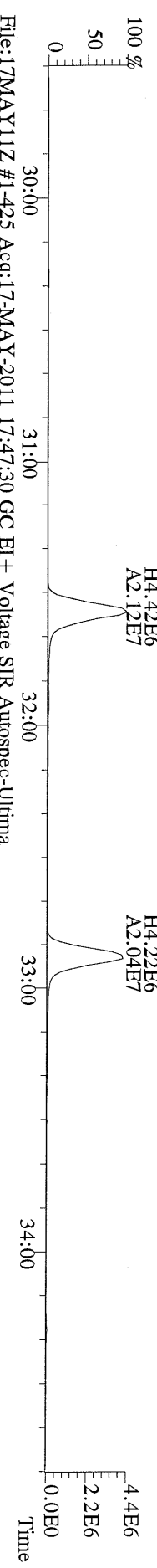
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 Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



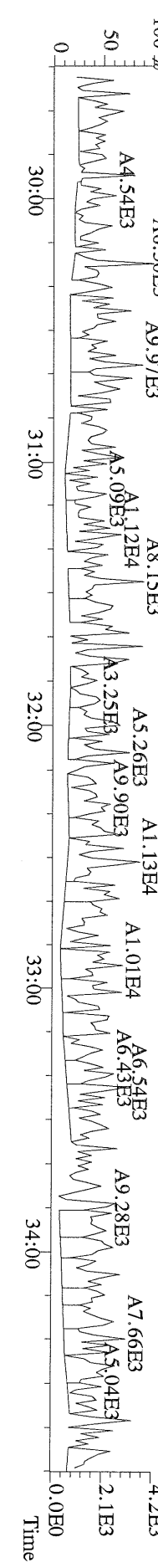
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 351.9000 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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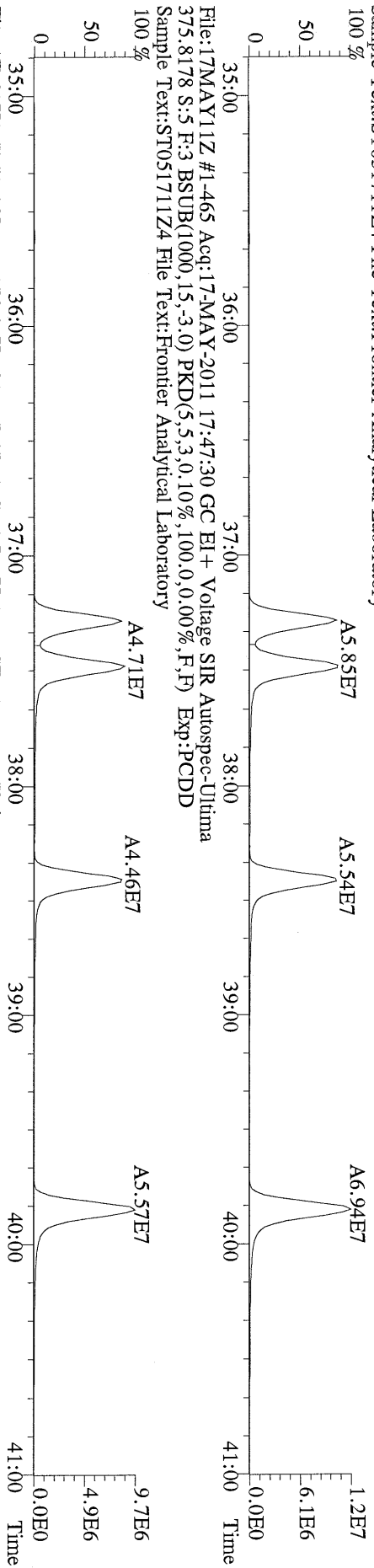
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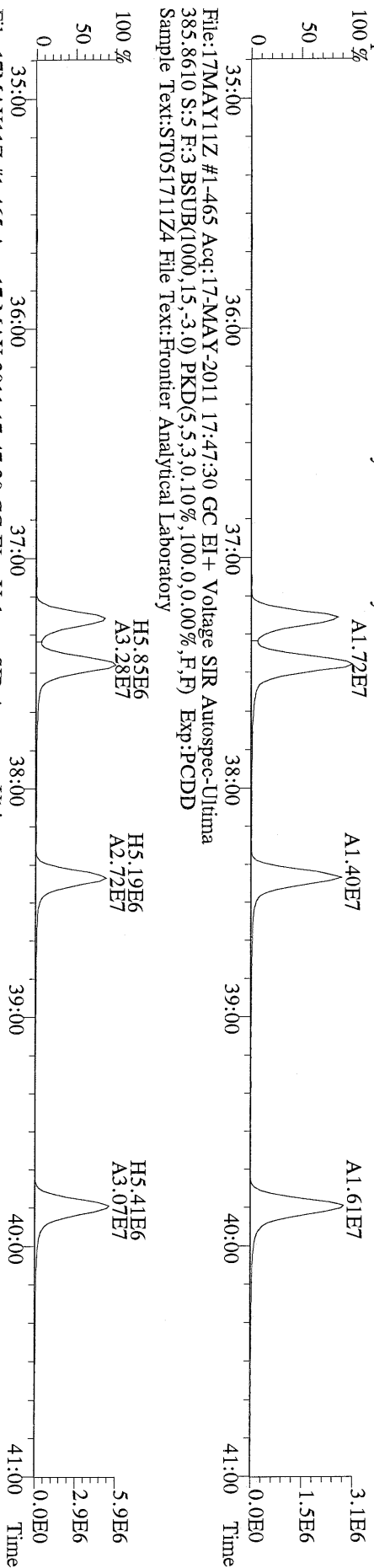
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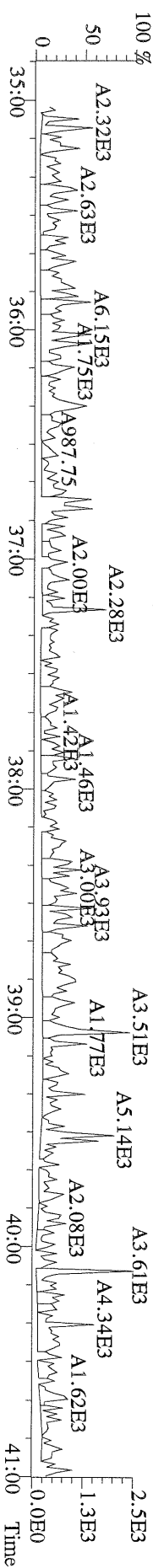
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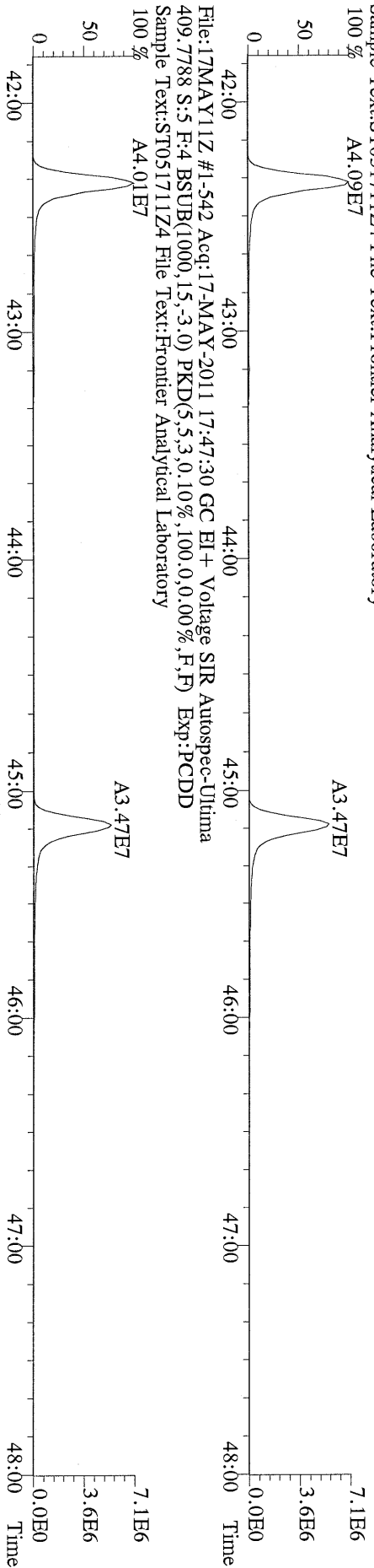
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383.8639 S:5 F:3 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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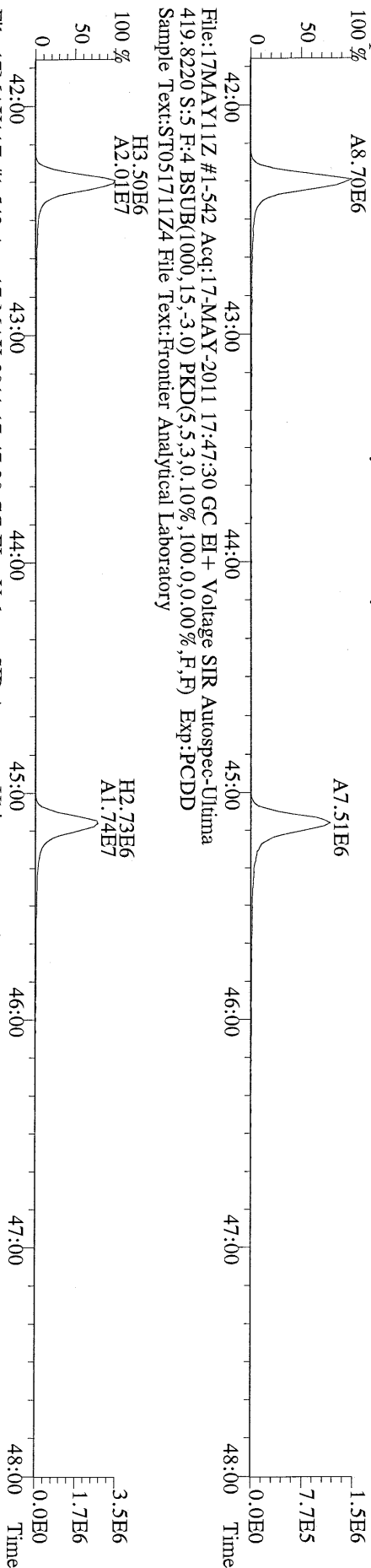
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Sample Text:ST051711Z4 File Text:Frontier Analytical Laboratory



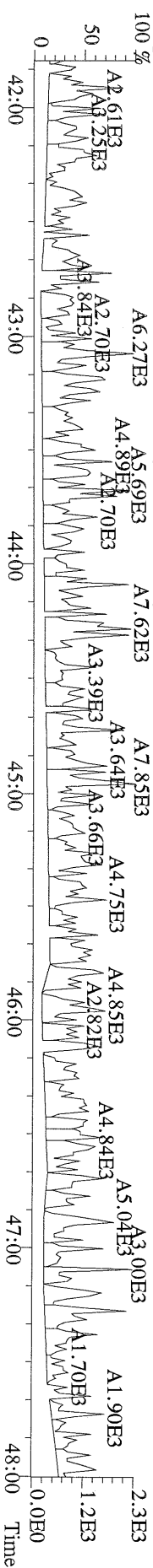
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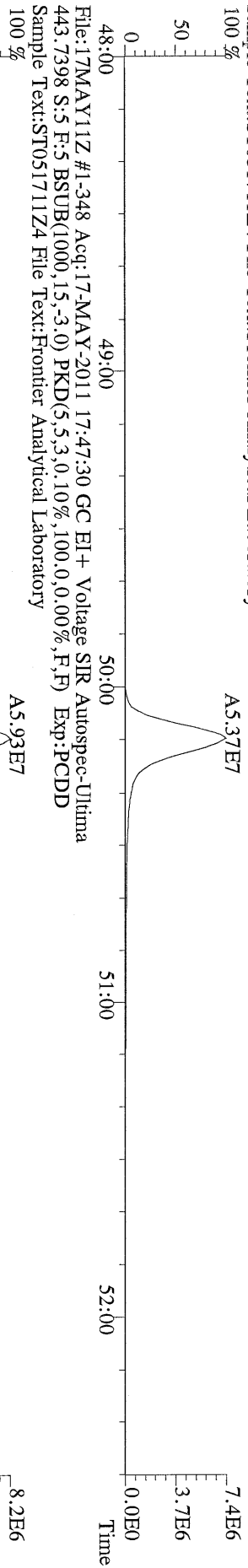
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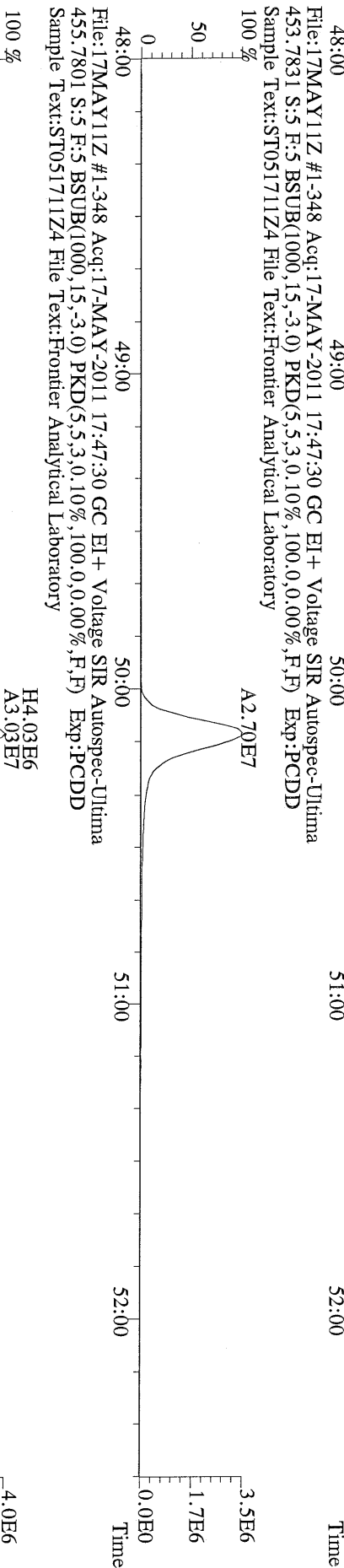
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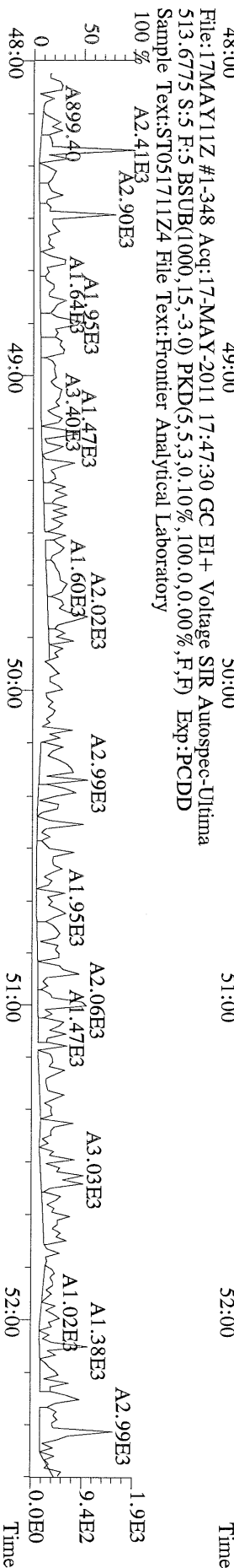
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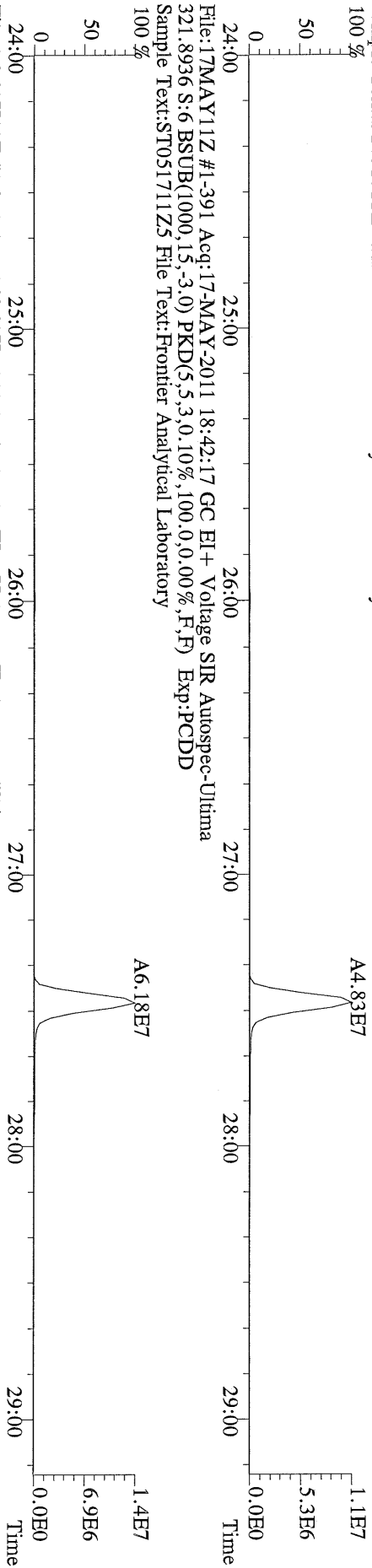
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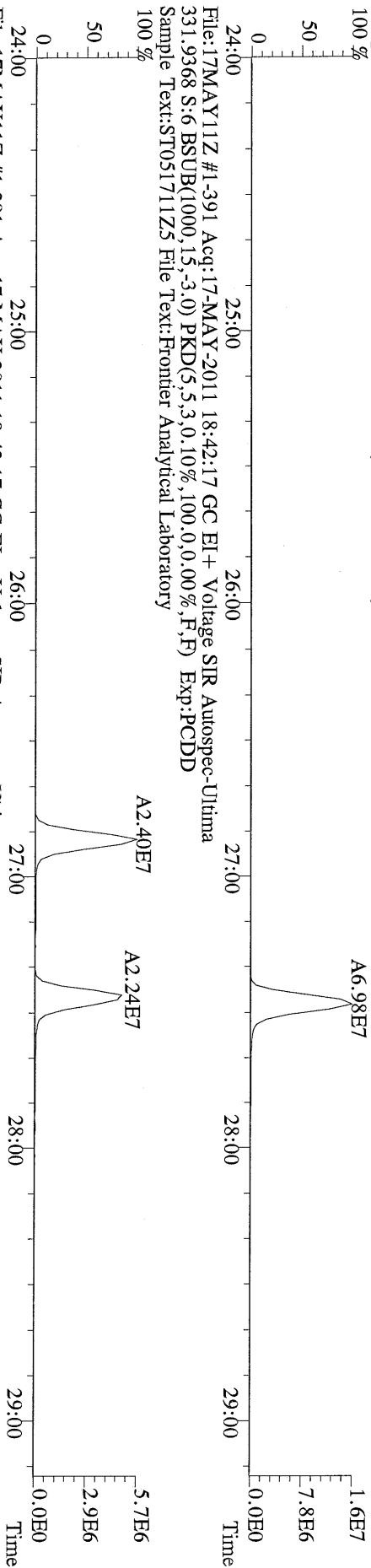
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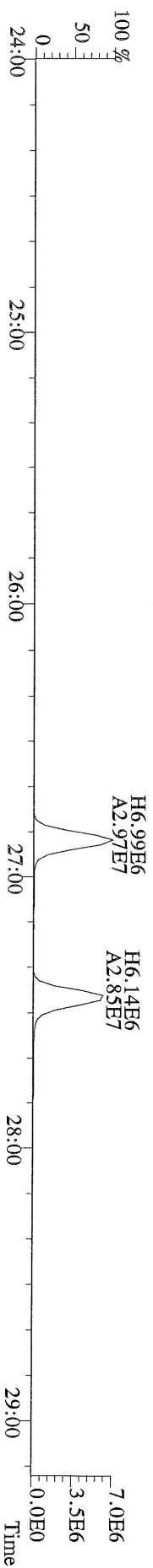
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319.8965 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



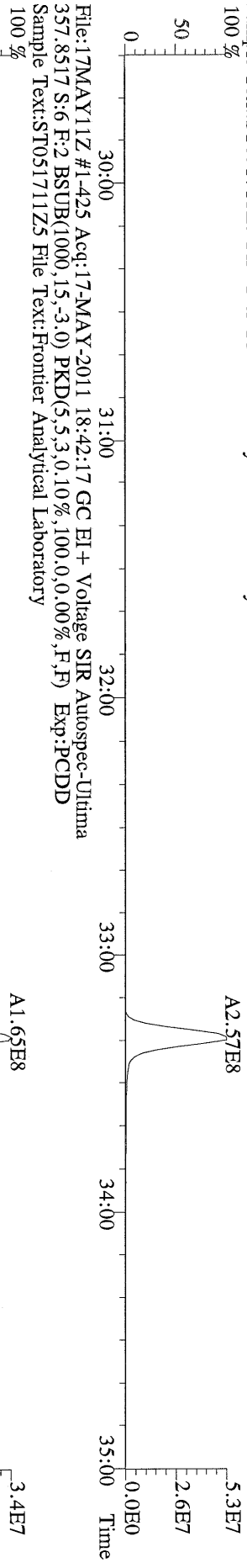
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327.8847 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



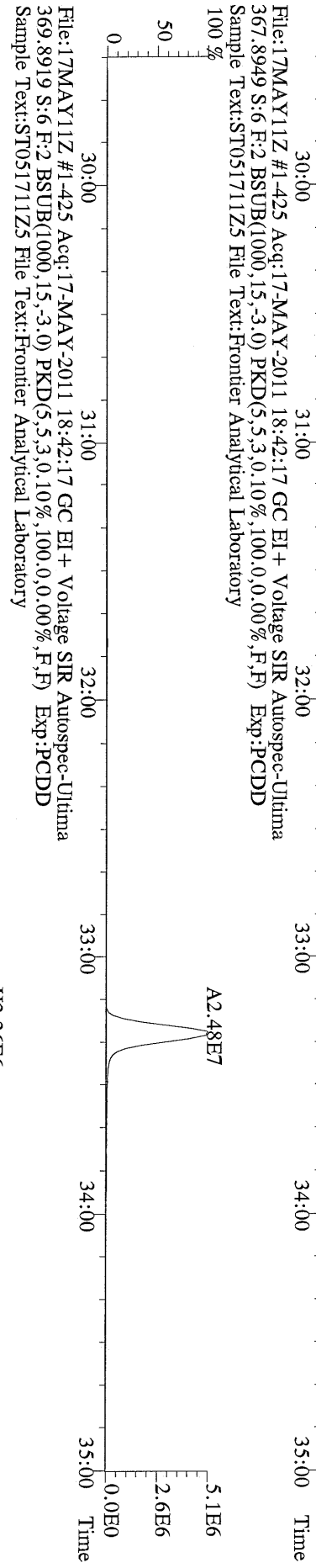
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Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



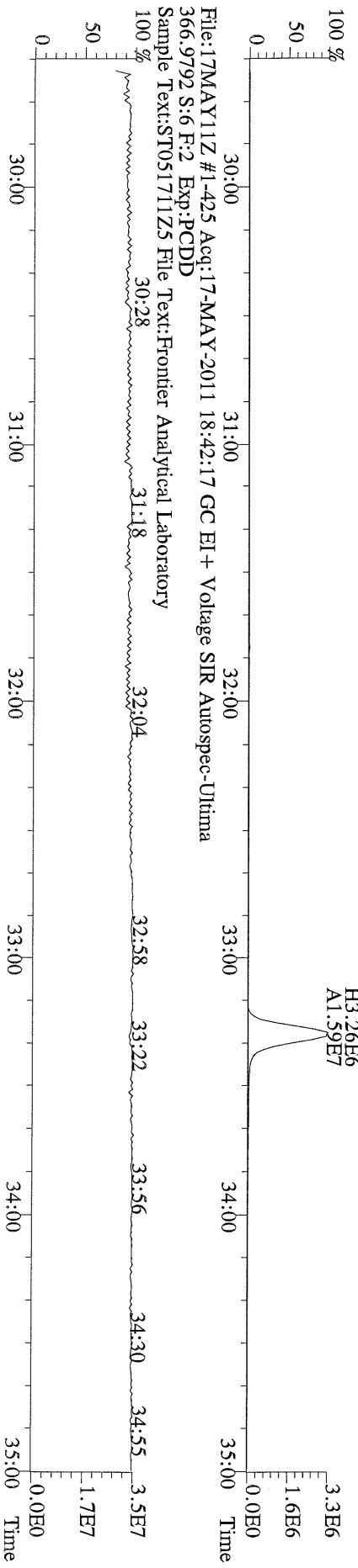
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355.8546 S:6 F:2 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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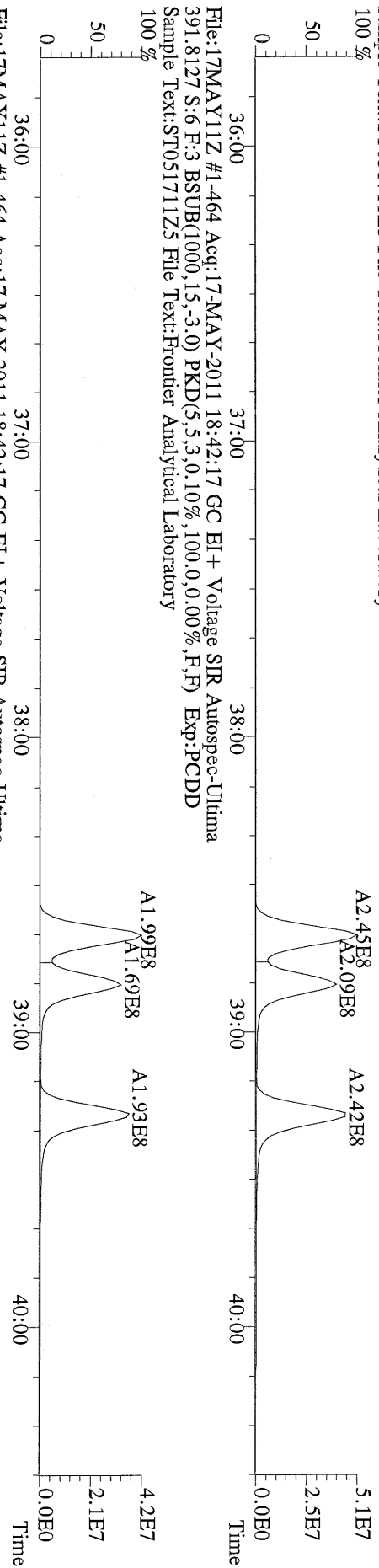
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100 %



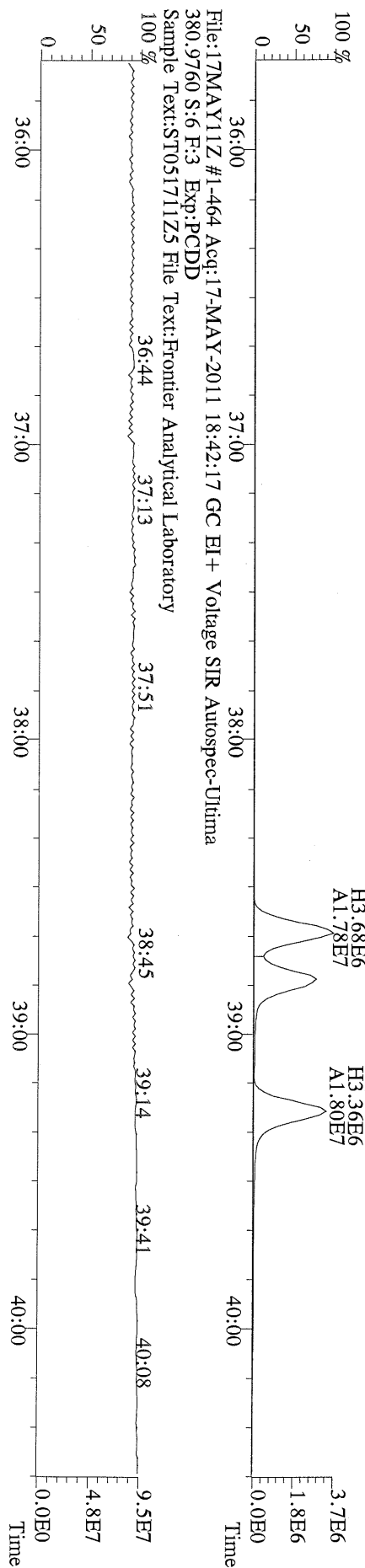
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369.8919 S:6 F:2 BSUB(1000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



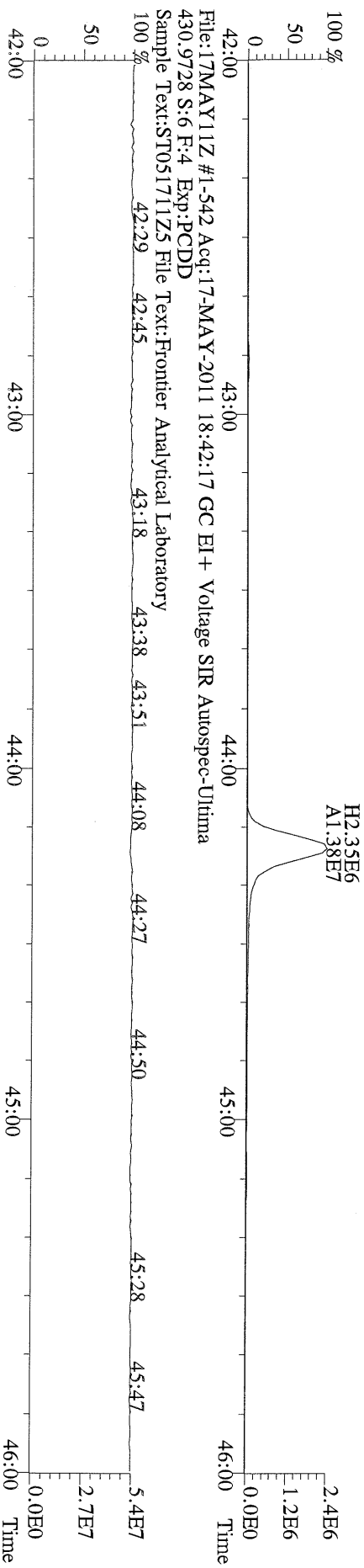
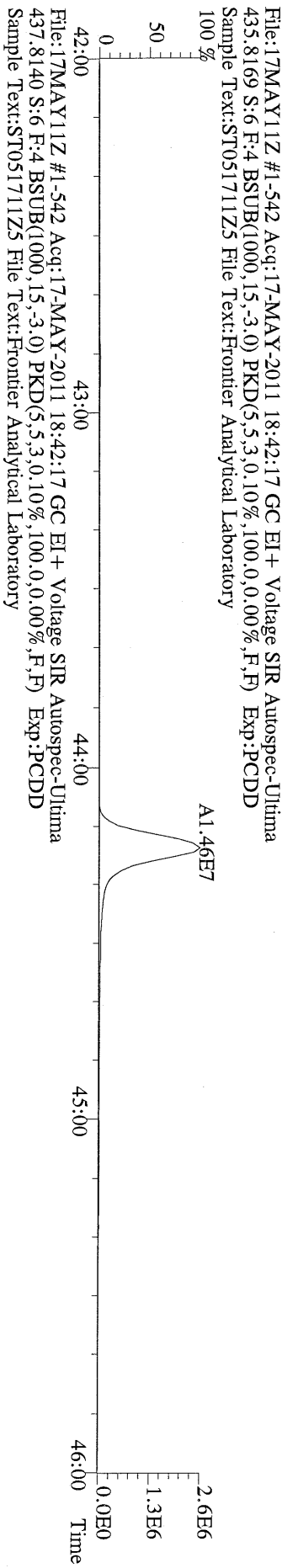
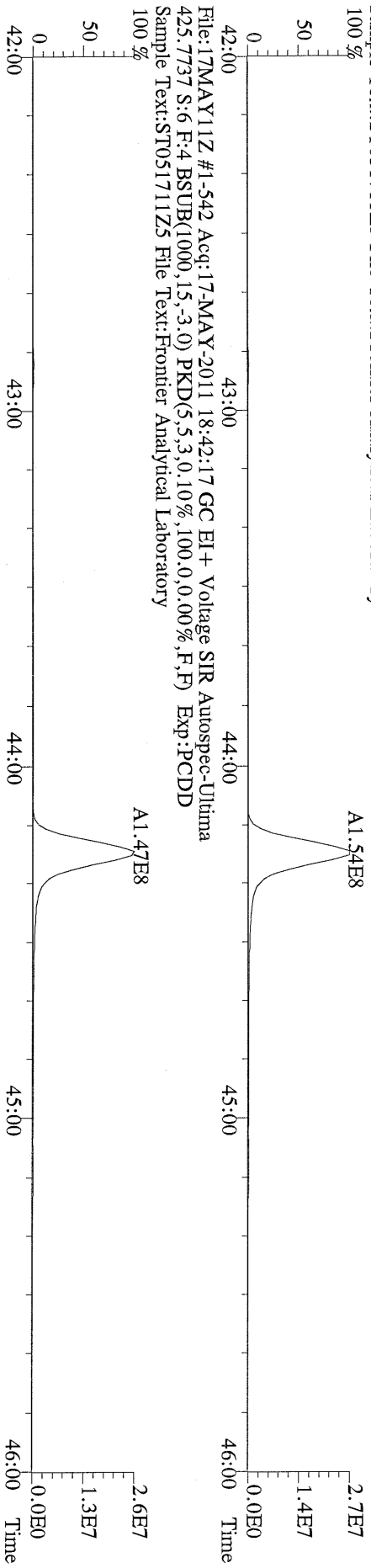
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389.8156 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



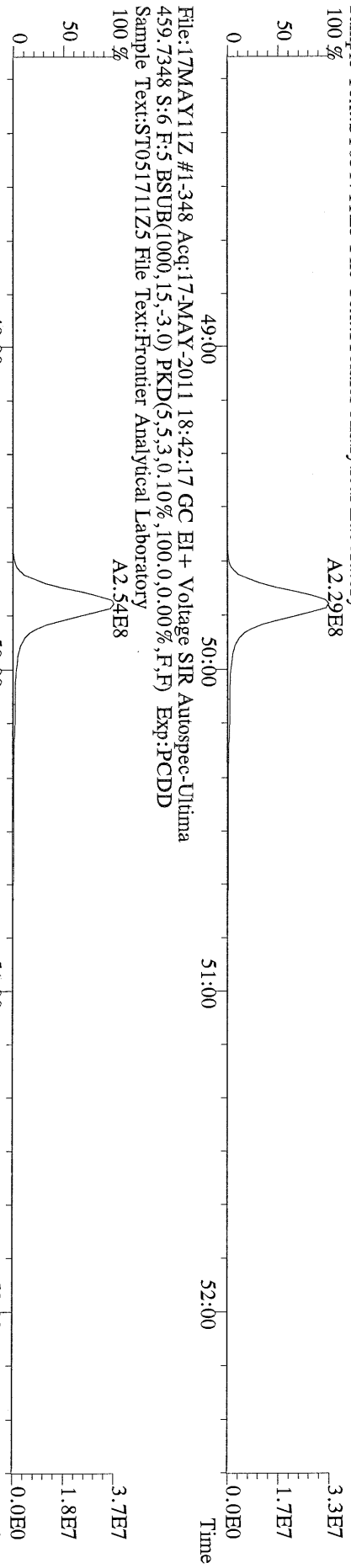
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401.8559 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



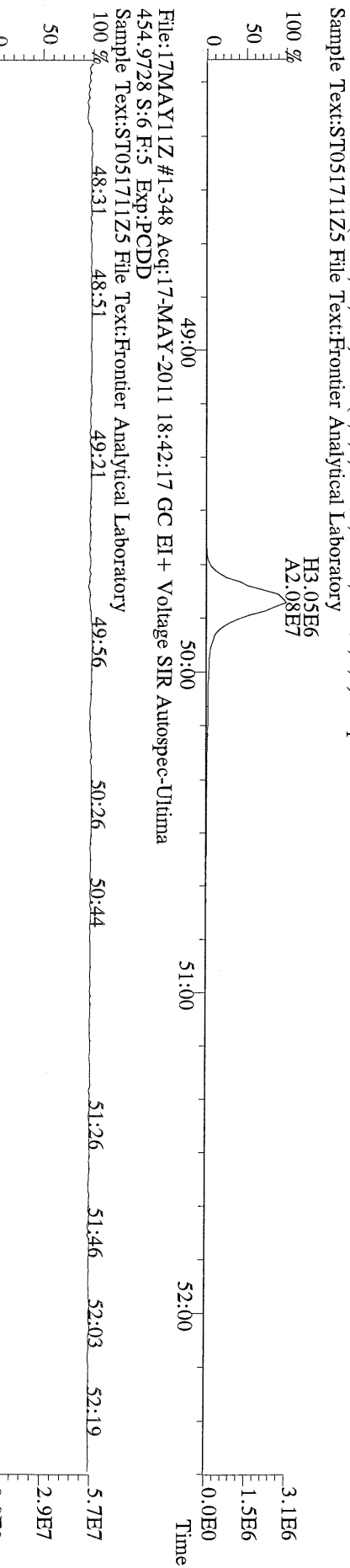
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423.7767 S:6 F:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



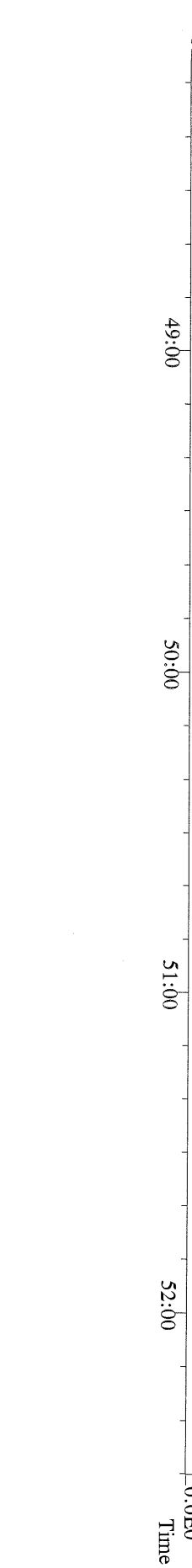
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457.7377 S:6 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



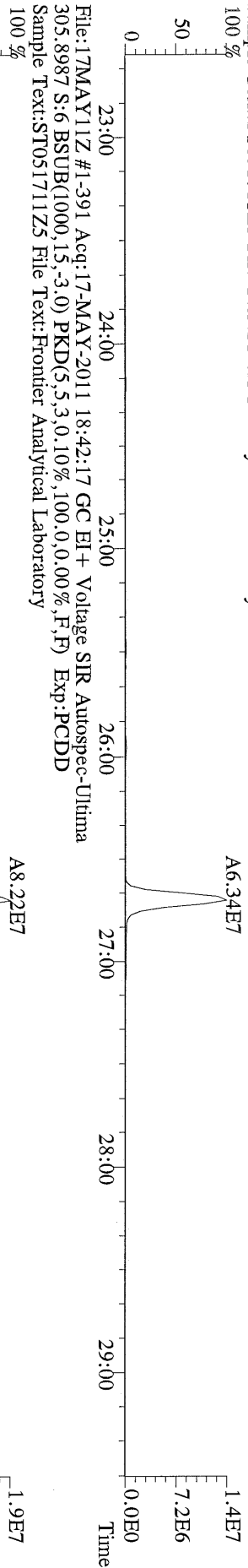
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469.7780 S:6 F:5 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp.:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



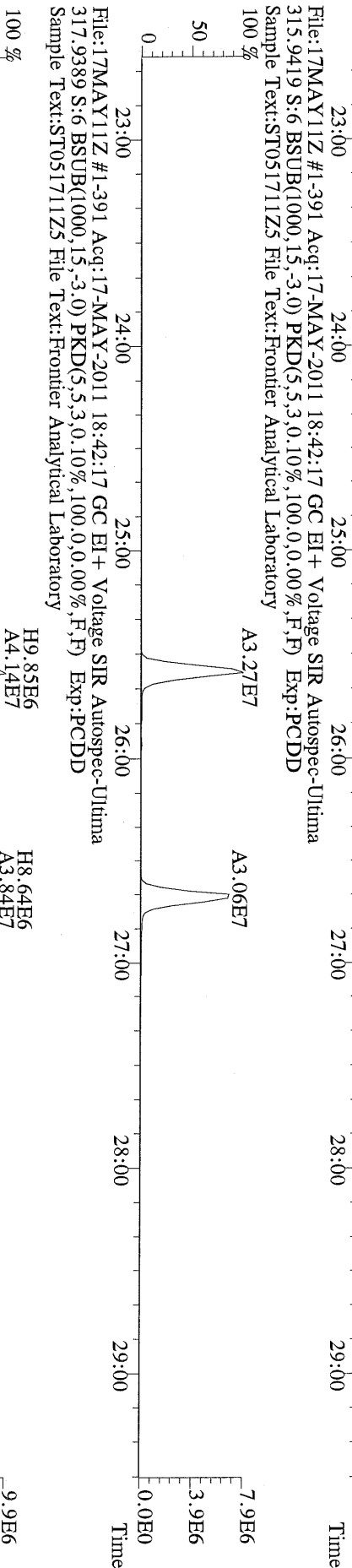
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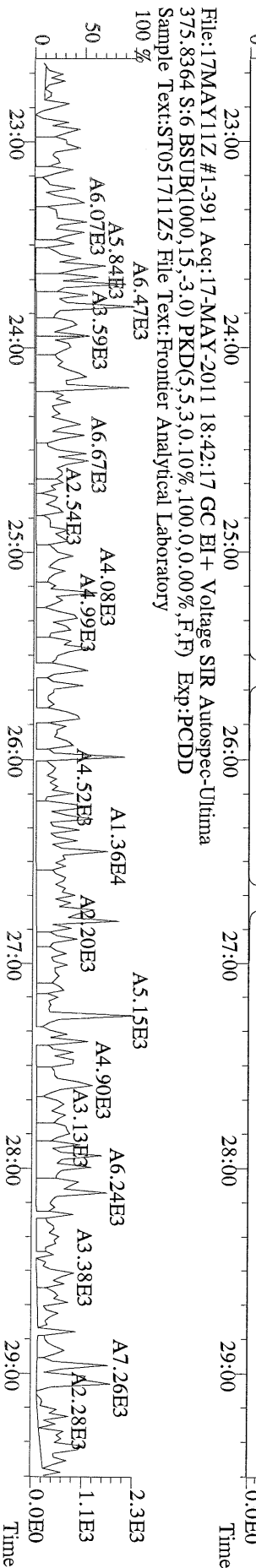
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303.9016 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



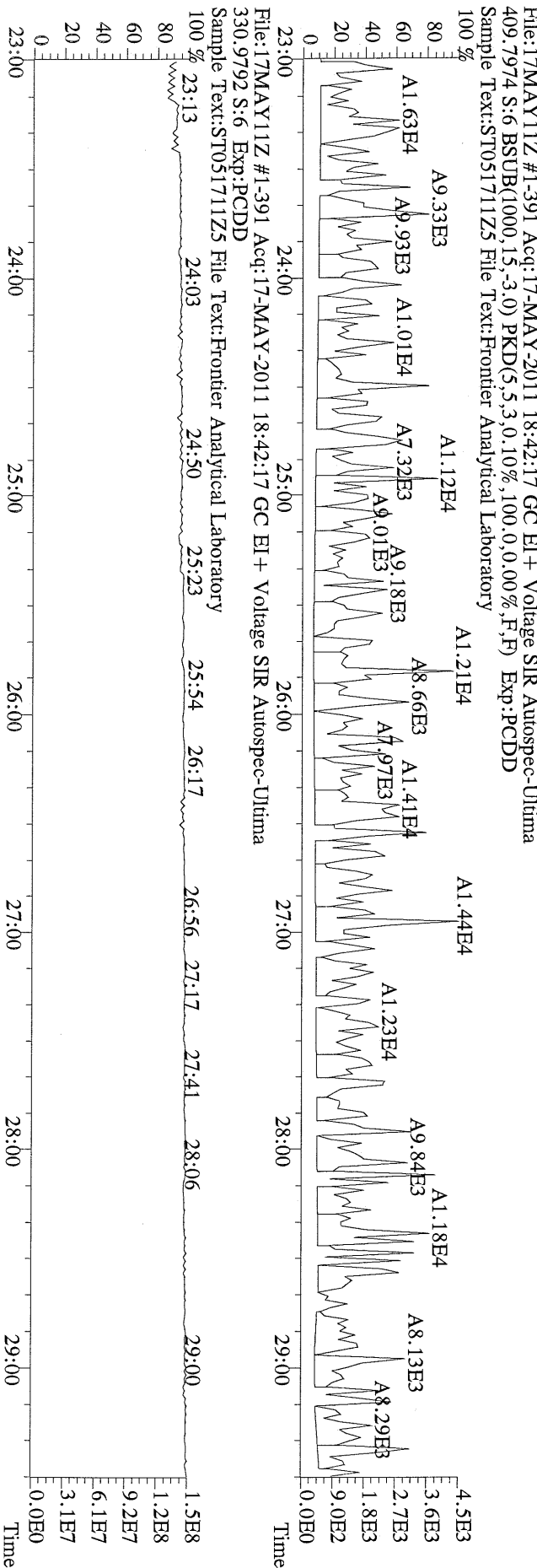
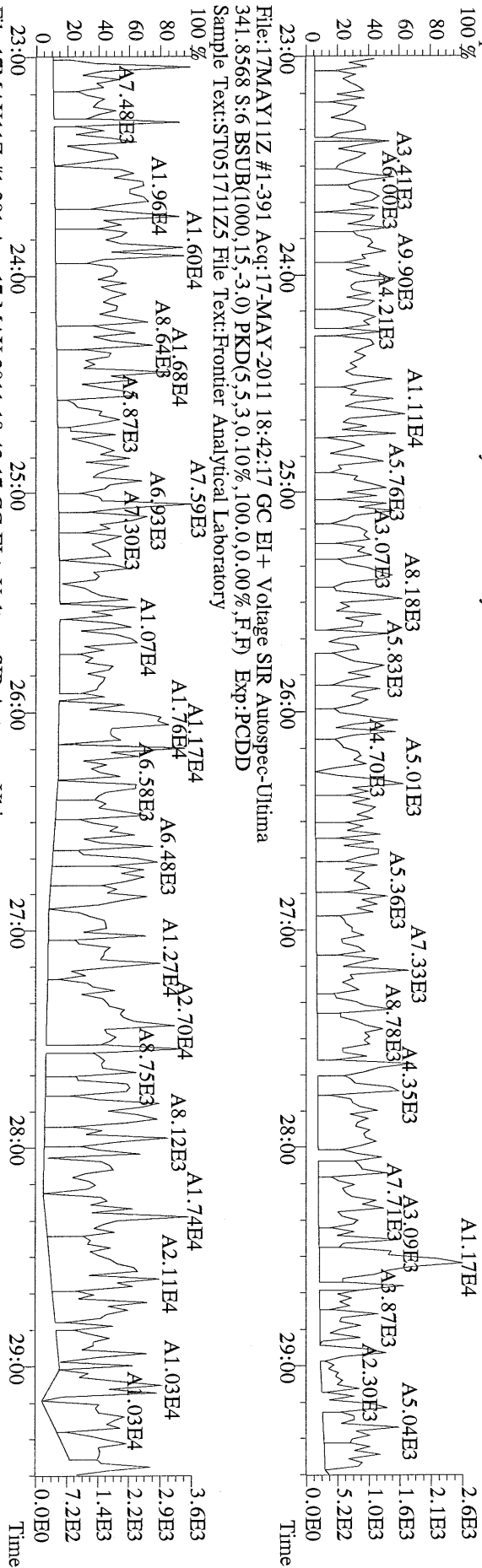
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315.9419 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



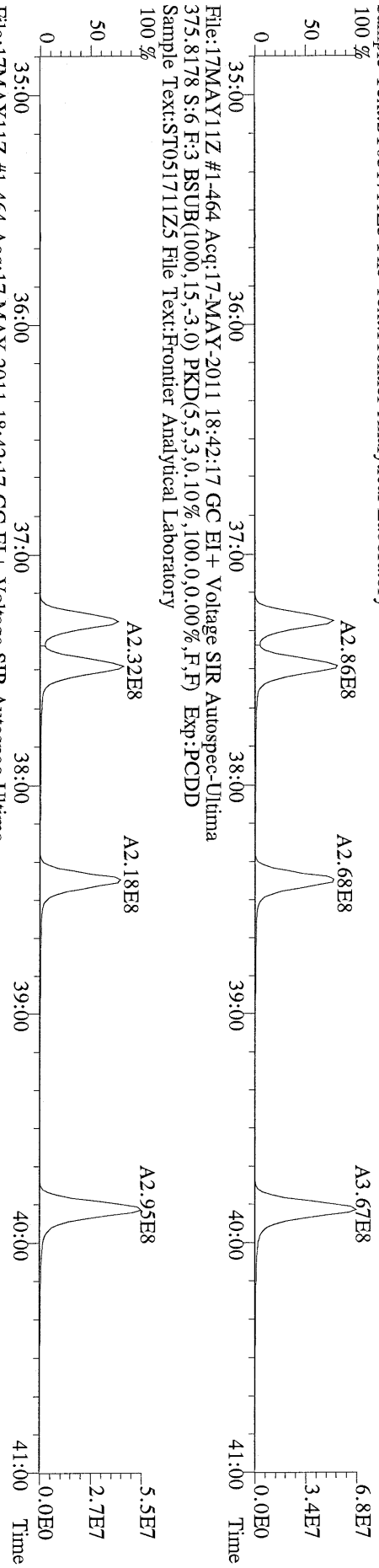
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375.8364 S:6 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %



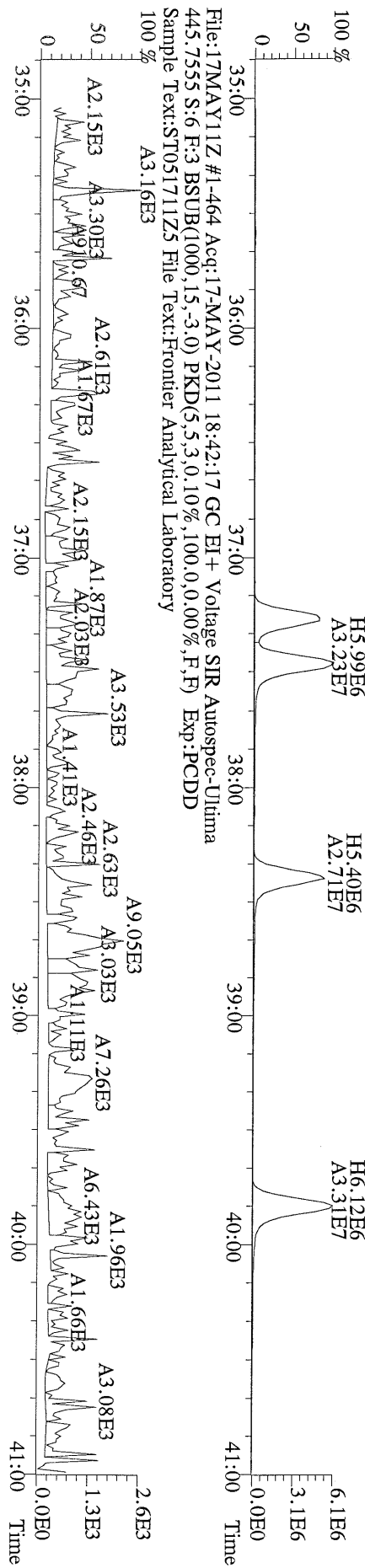
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339.8568 S:6 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



File: 17MAY11Z #1-464 Acq: 17-MAY-2011 18:42:17 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



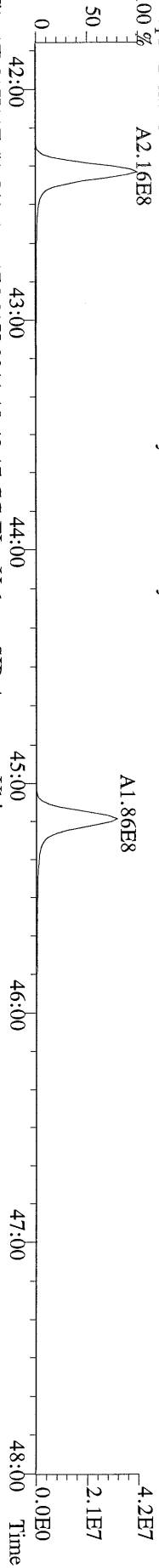
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383.8639 S:6 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



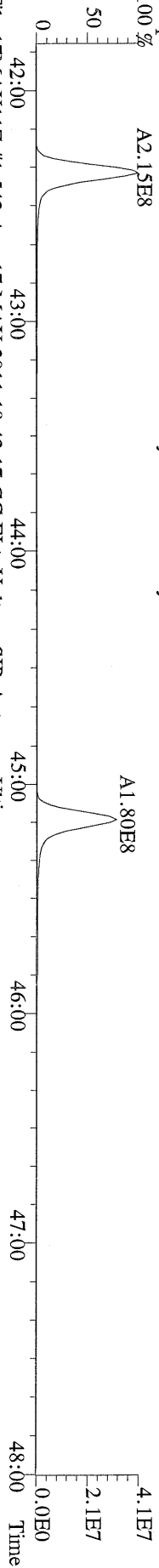
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Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



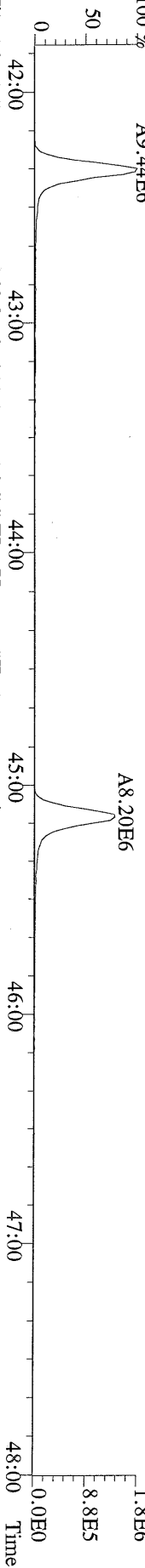
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407.7818 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



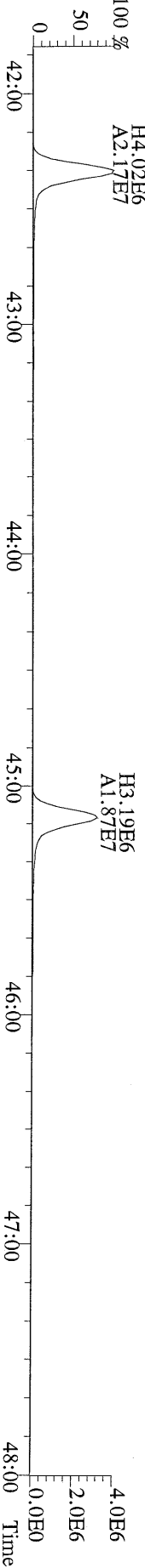
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409.7788 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



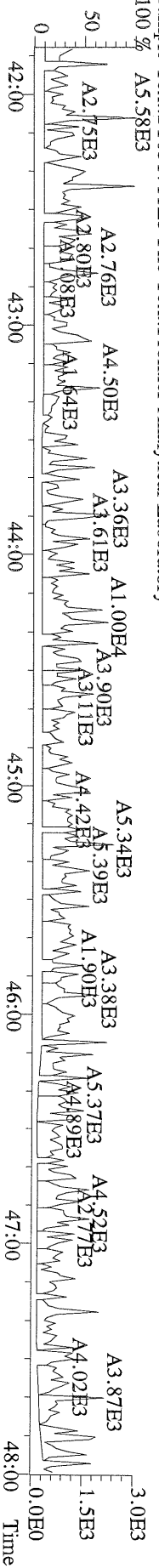
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417.8253 S:6 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



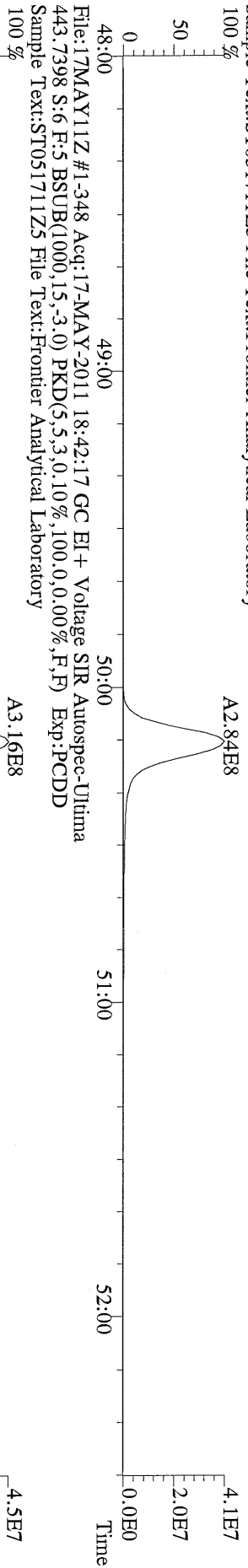
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Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory



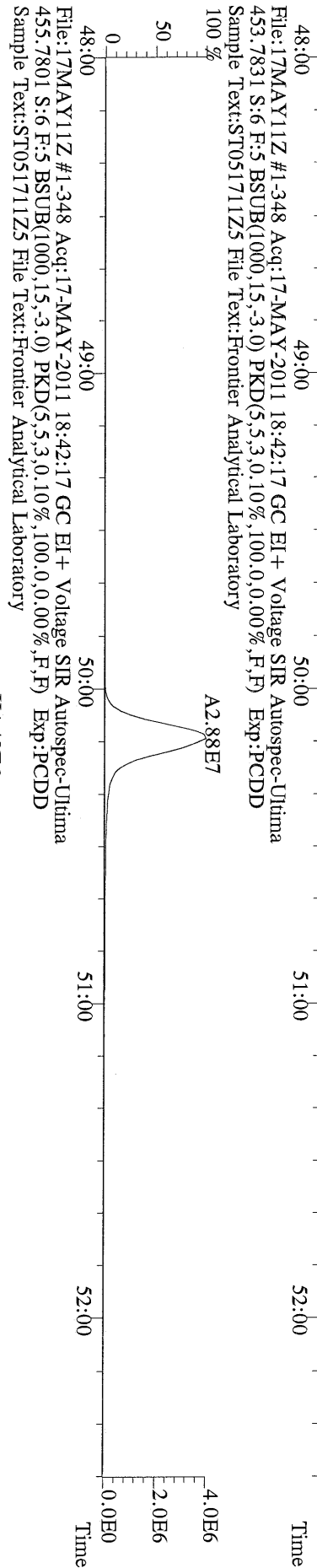
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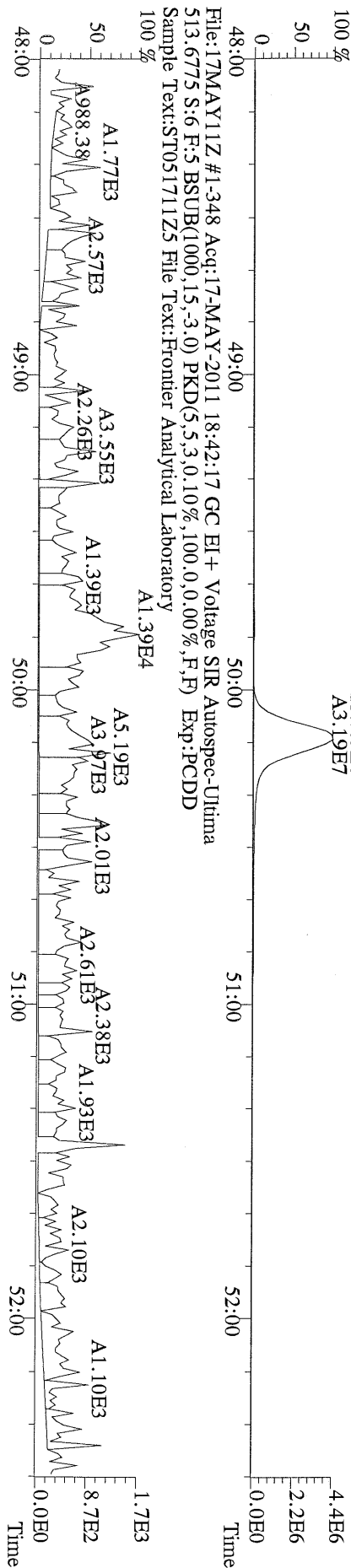
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Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %

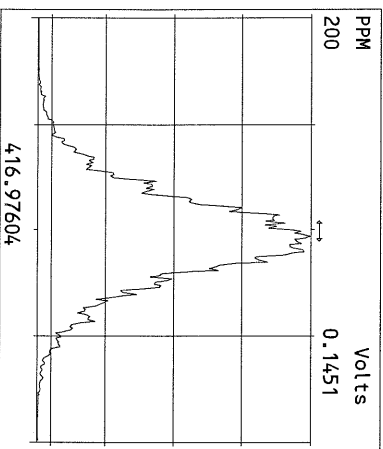
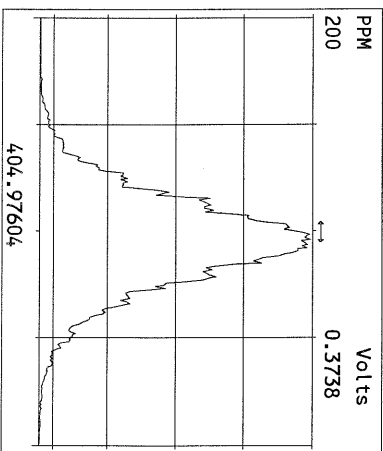
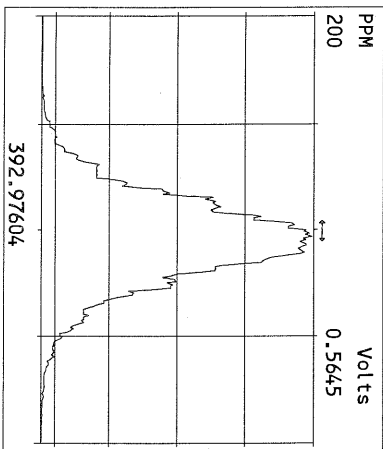
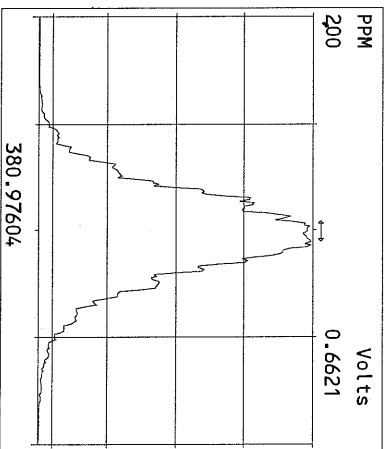
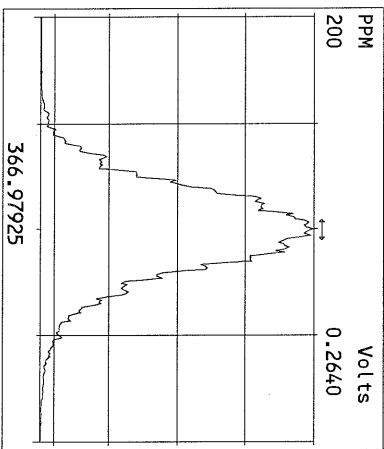
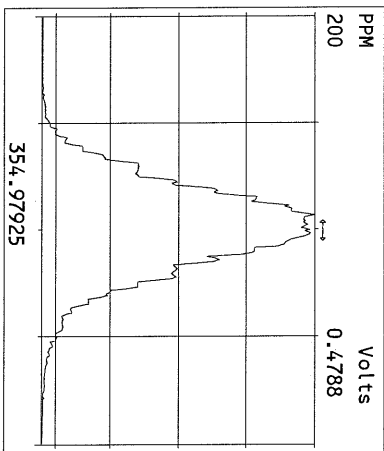
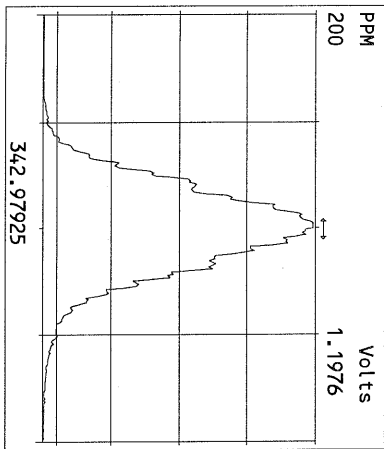
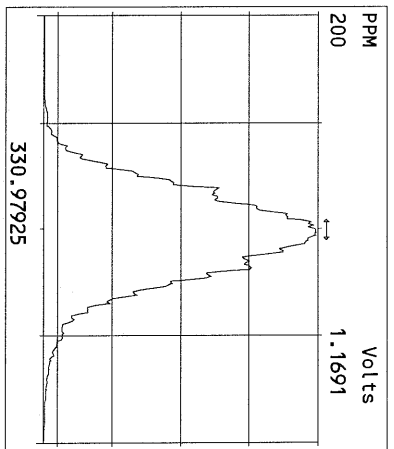
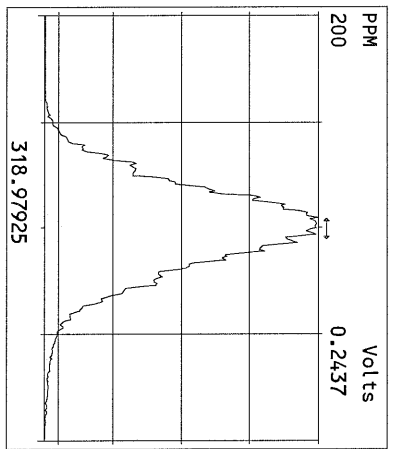
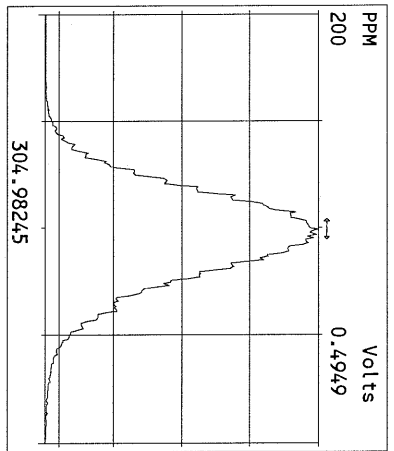
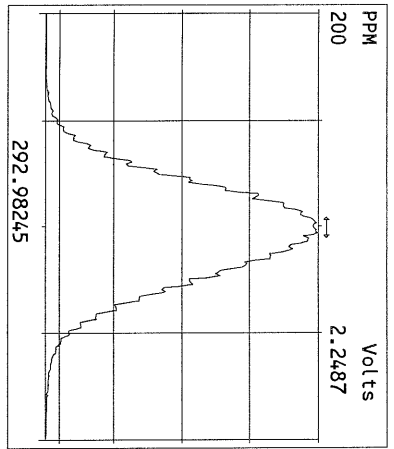


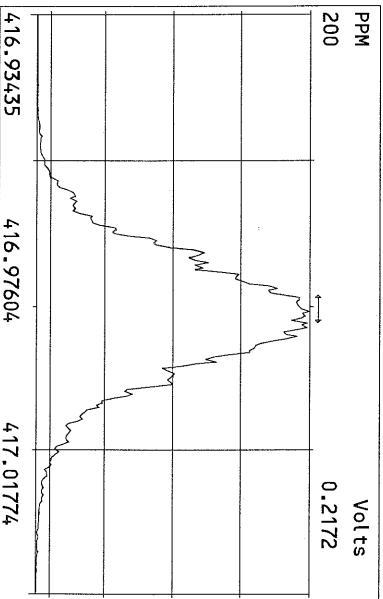
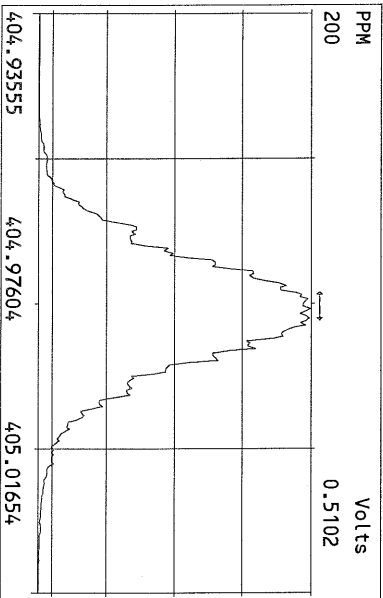
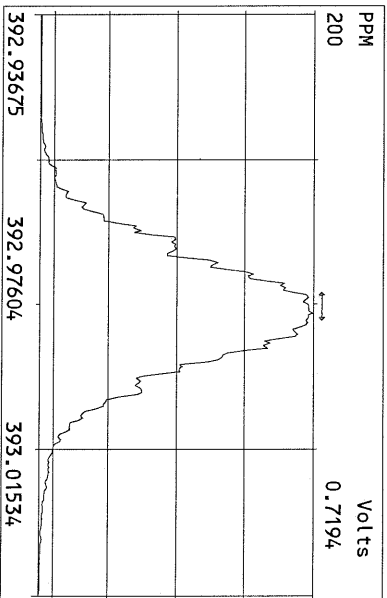
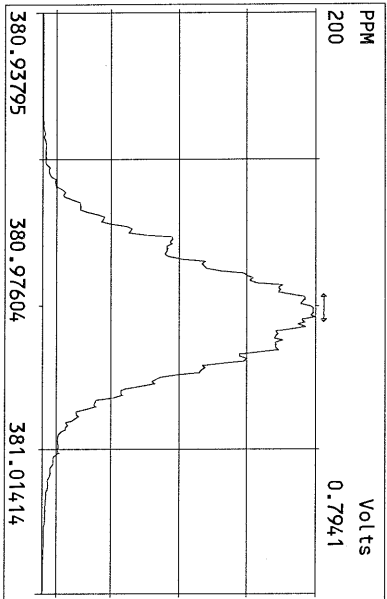
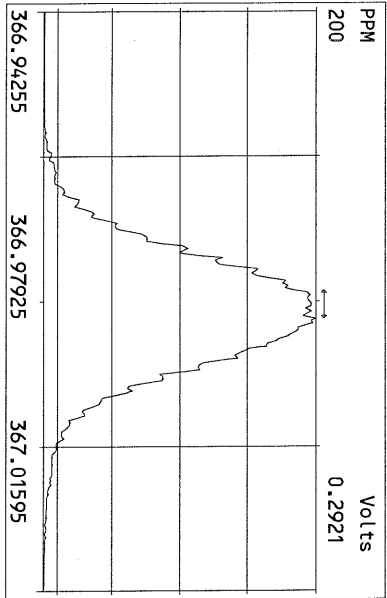
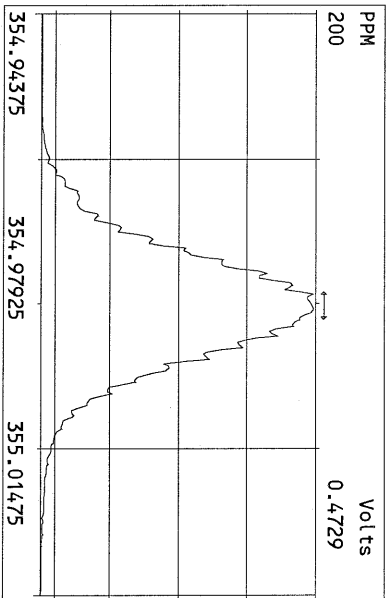
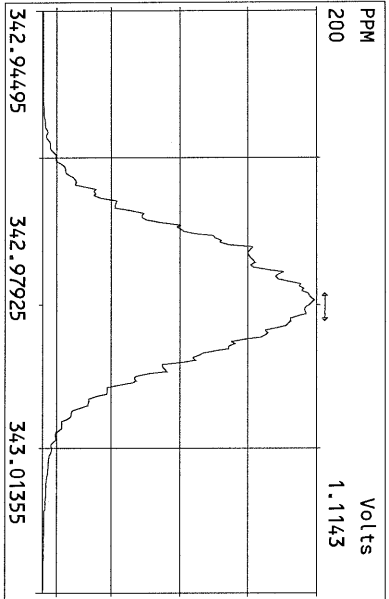
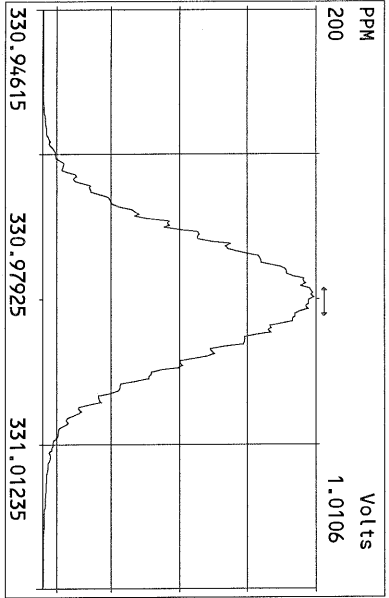
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453.7831 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %

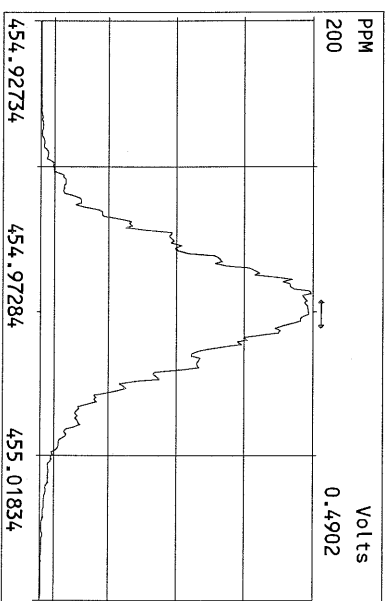
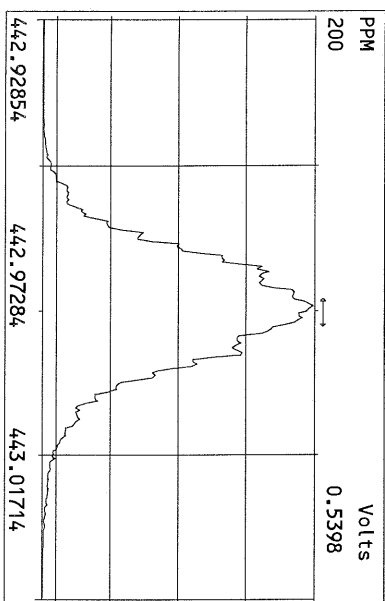
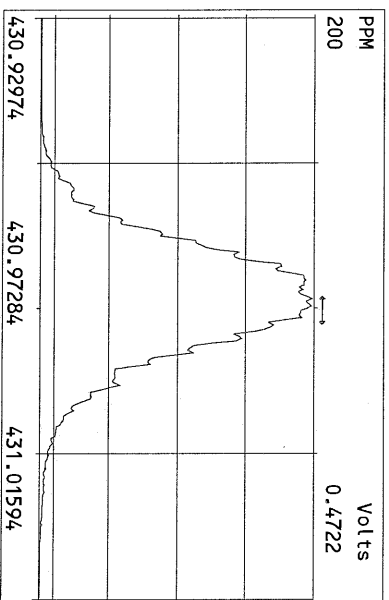
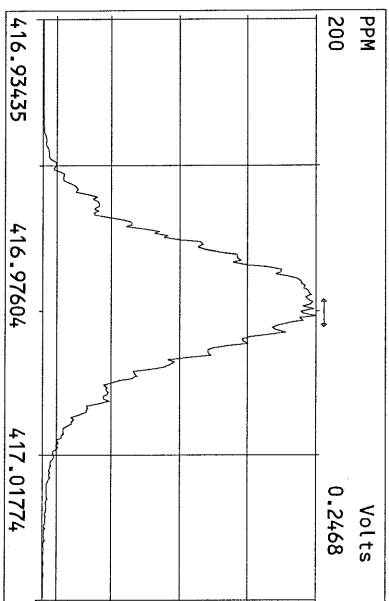
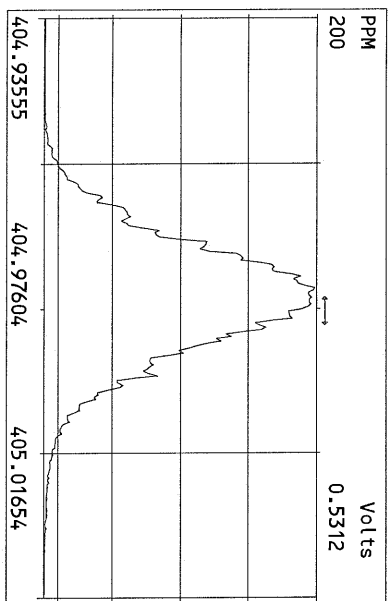
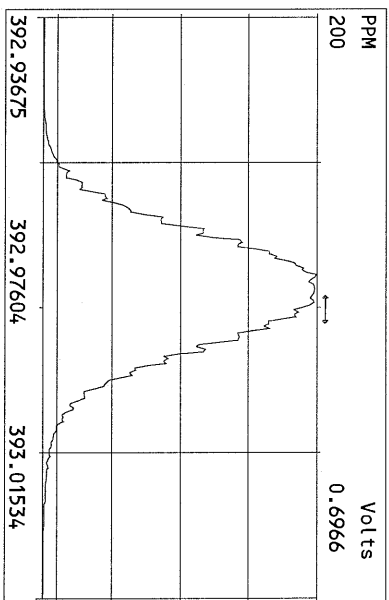
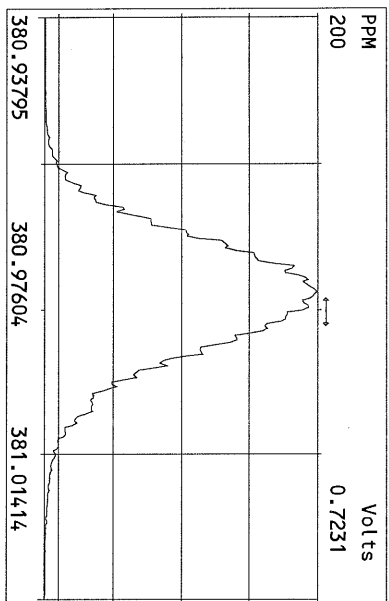
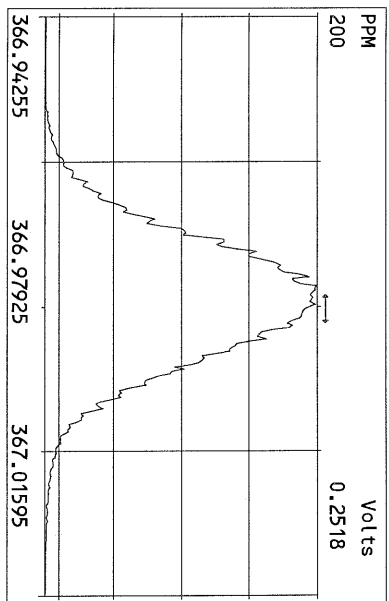


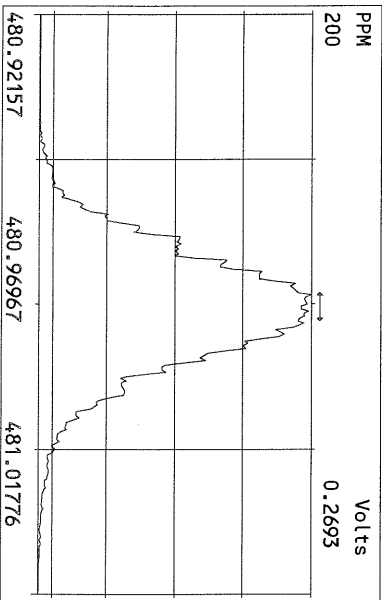
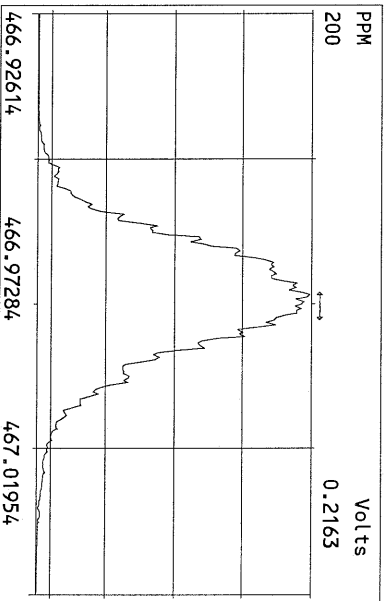
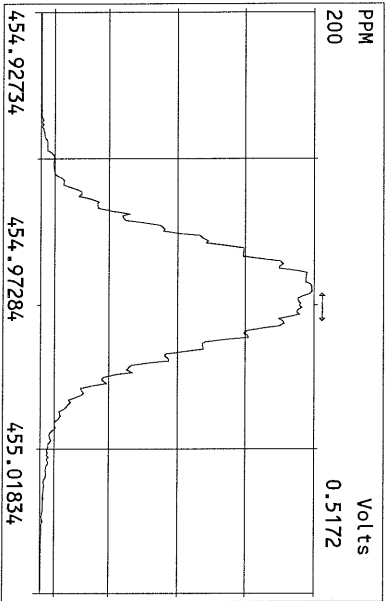
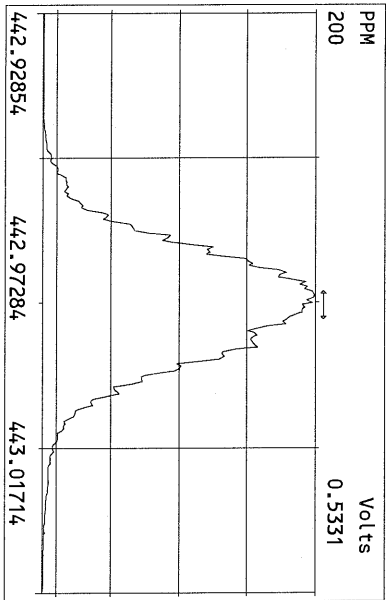
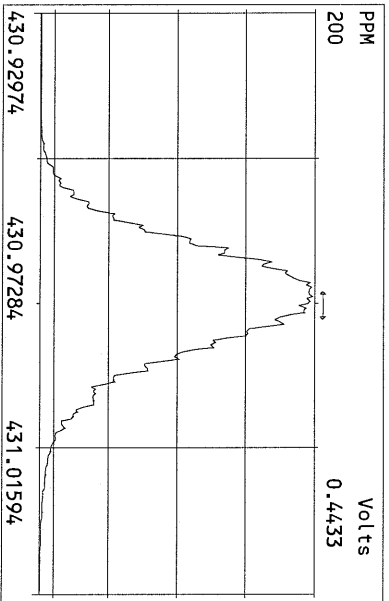
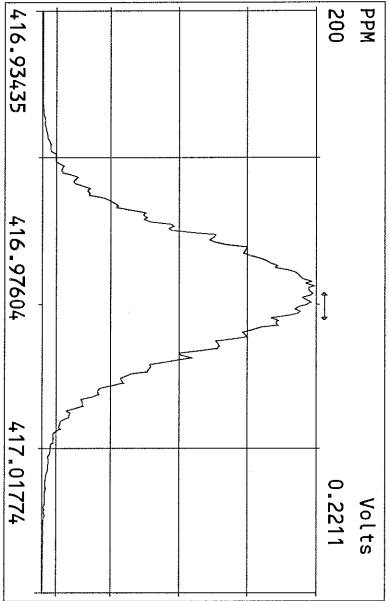
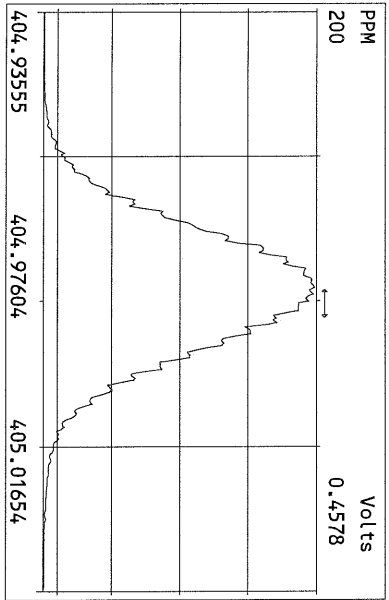
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513.6775 S:6 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051711Z5 File Text:Frontier Analytical Laboratory
100 %

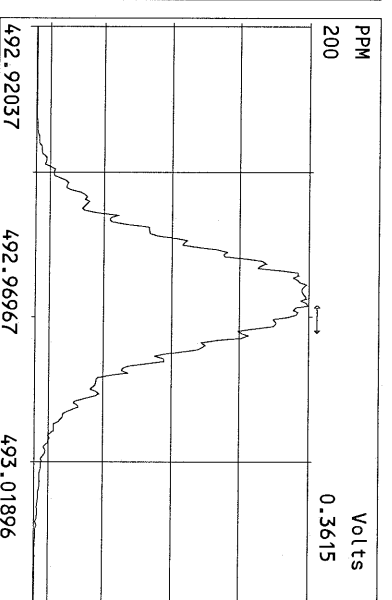
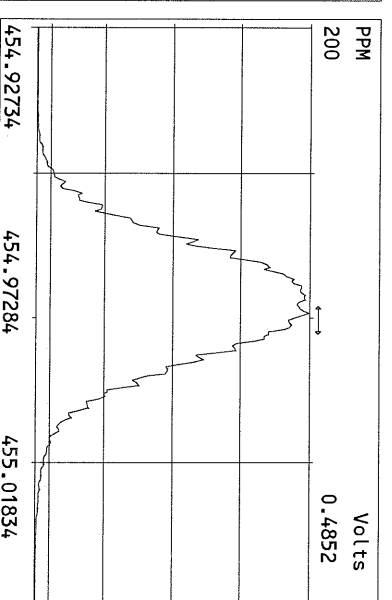
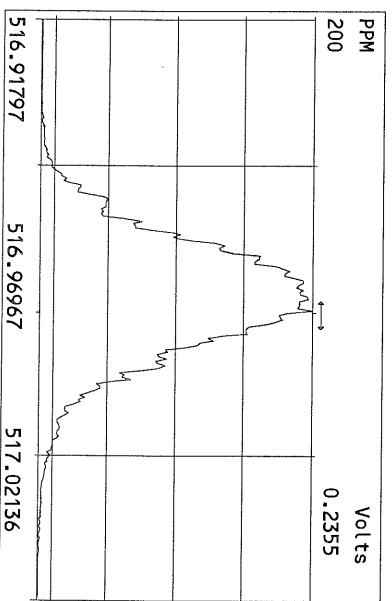
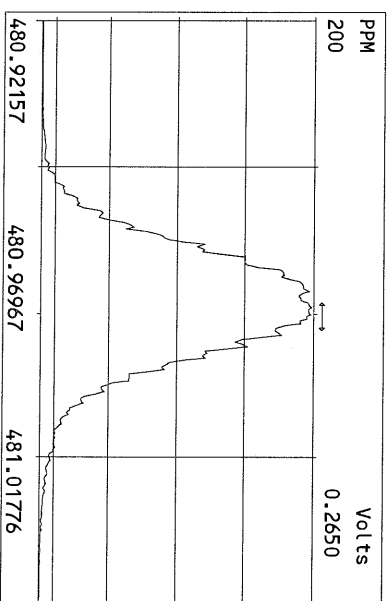
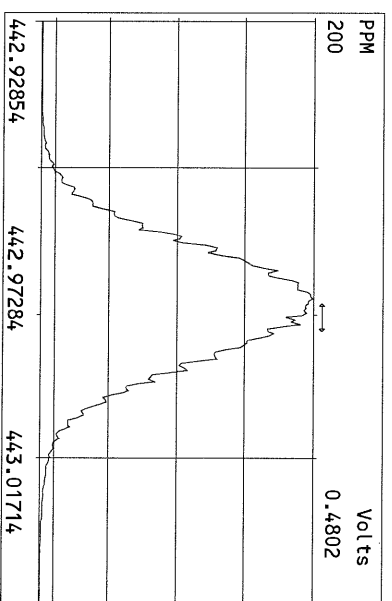
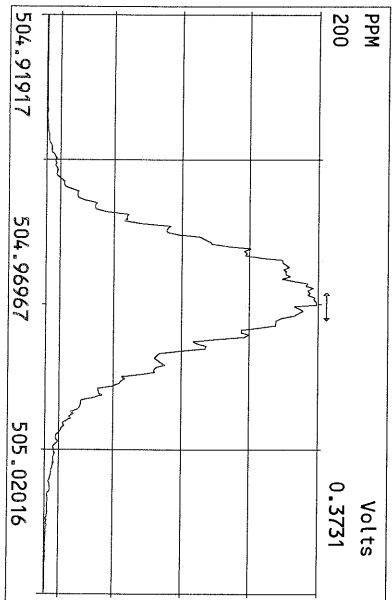
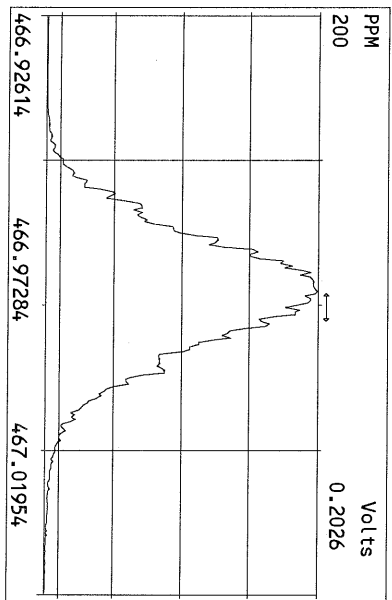
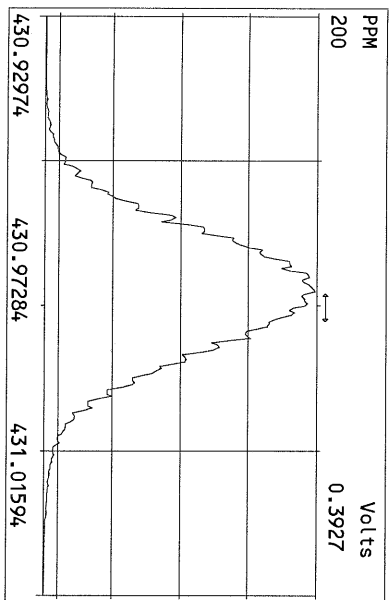












USEPA - ITD

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

Analysis Date: 18-MAY-11 12:16:46

CS3 or VER Data Filename: 18MAY11Z

Sam:1

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.001	0.999-1.002
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	0.989-1.052
13C-2,3,7,8-TCDD		1.021	0.976-1.043
13C-2,3,7,8-TCDF		0.993	0.923-1.103
13C-1,2,3,7,8-PeCDD		1.240	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.175	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.224	0.923-1.303

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

Analyst: Date: 5/18/11

USEPA - ITD

FORM 6B

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

Analysis Date: 18-MAY-11 12:16:46

CS3 or VER Data Filename: 18MAY11Z

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		1.000	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		1.000	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		1.001	0.999-1.001
1,2,3,7,8,9-HxCDF	13C-1,2,3,7,8,9-HxCDF		1.001	0.999-1.001
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD		1.000	0.999-1.001
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF		1.001	0.999-1.001
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF		1.000	0.999-1.001
OCDD	13C-OCDD		1.001	0.999-1.001
OCDF	13C-OCDF		1.000	0.999-1.001
LABELED COMPOUNDS				
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD		0.985	0.977-1.000
13C-1,2,3,6,7,8-HxCDD			0.988	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			1.267	1.032-1.311
13C-OCDF			1.277	1.000-1.311

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

Analyst: 8Date: 5/18/11

Frontier Analytical Laboratory - Acquisition Log

Run Name:18MAY11Z

Instrument: FAL4

GC: DB5

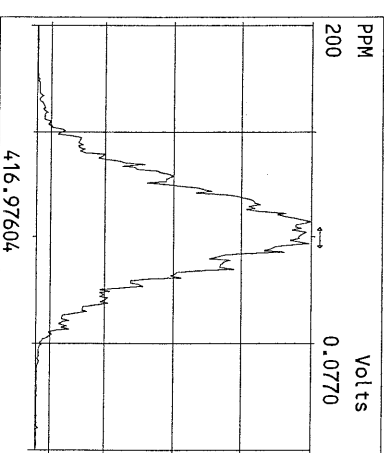
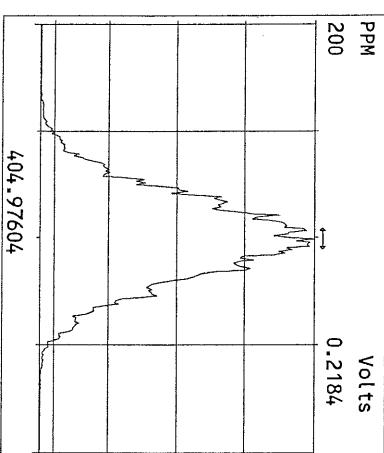
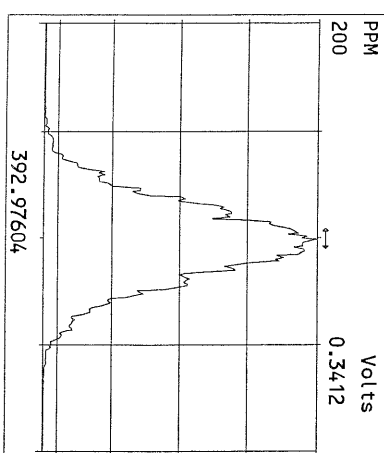
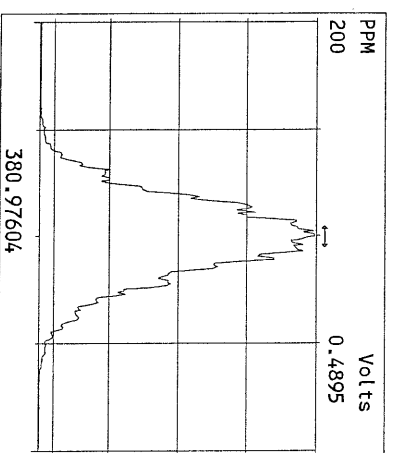
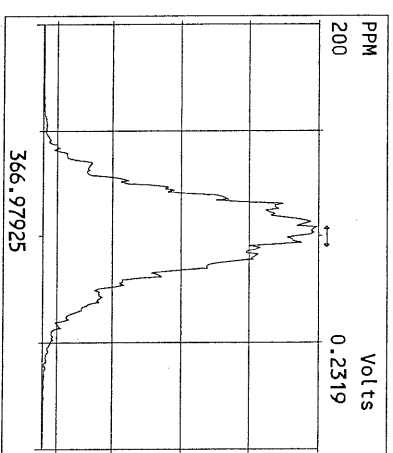
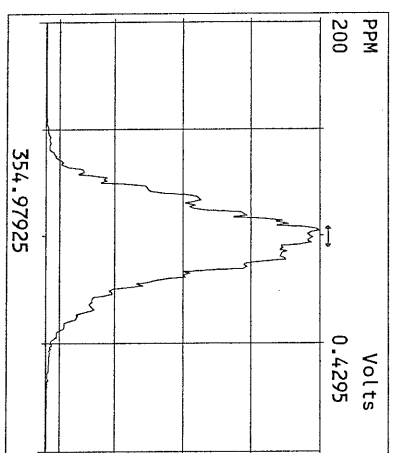
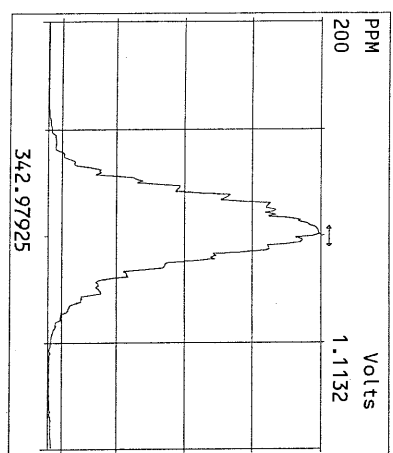
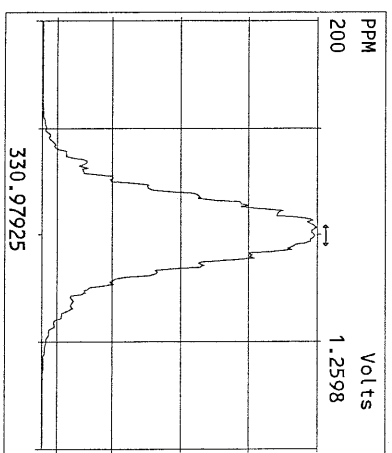
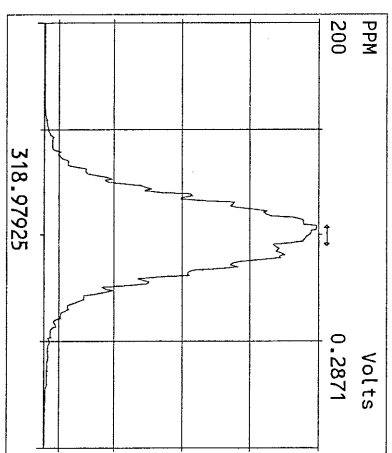
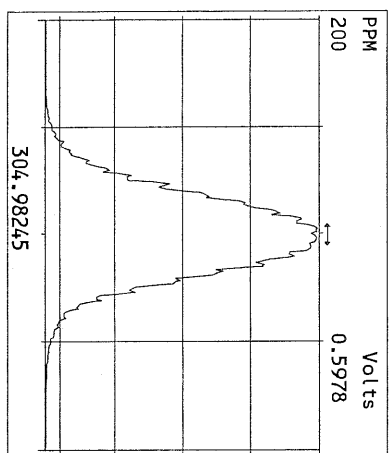
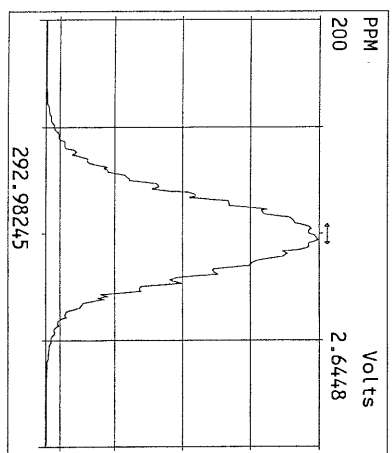
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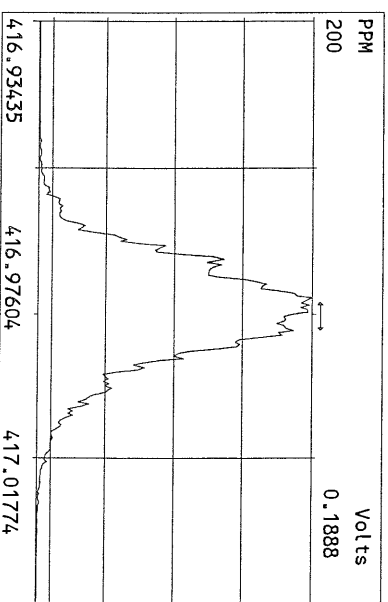
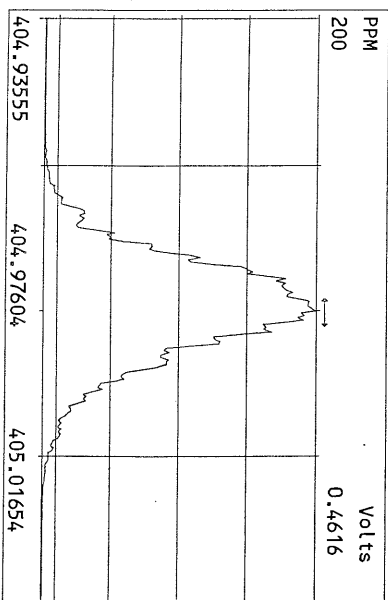
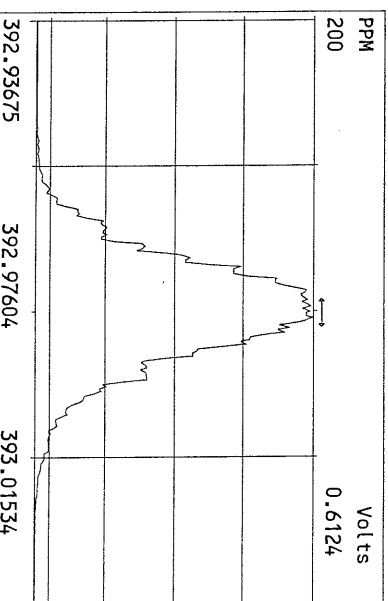
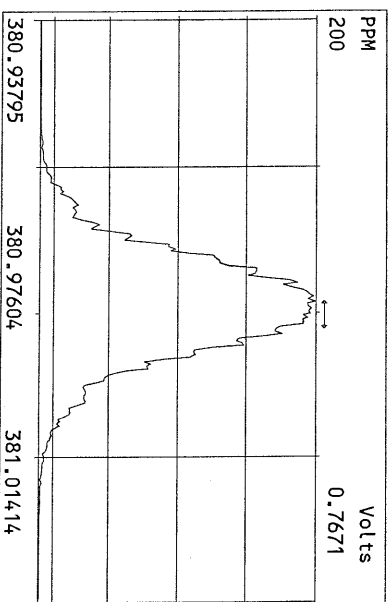
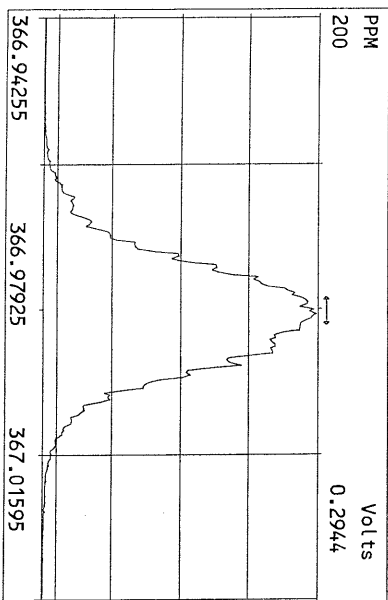
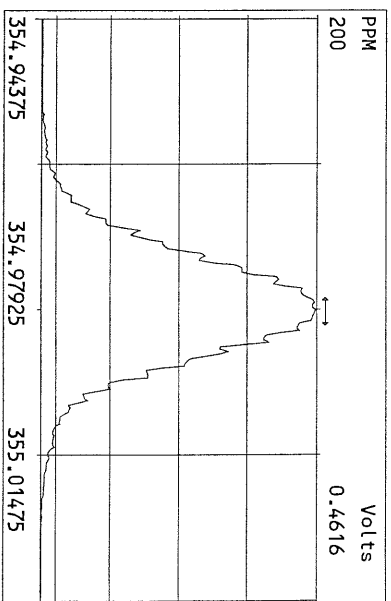
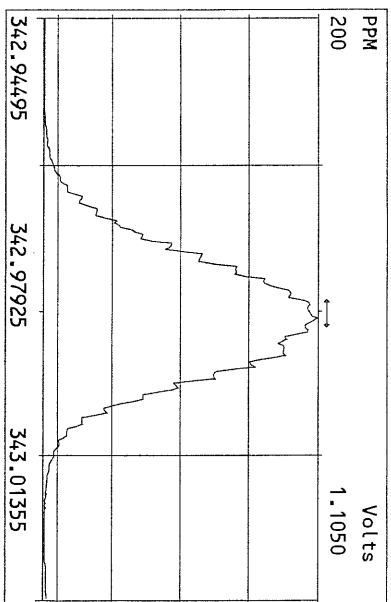
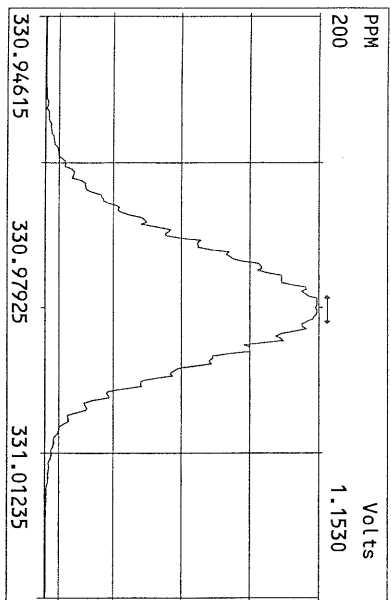
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18MAY11Z	3	2293-001-0001-OPR	OPR	18-MAY-11 14:06:21	ST051811Z1	ST051811Z2	BS
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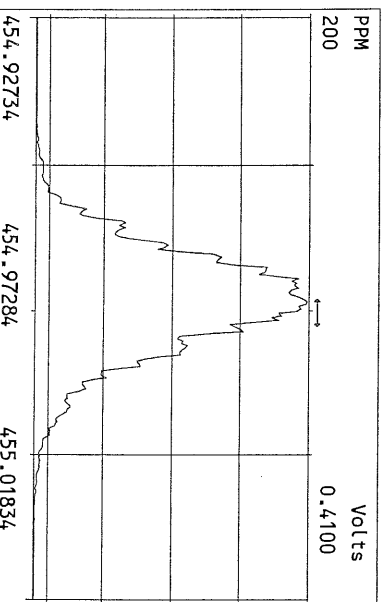
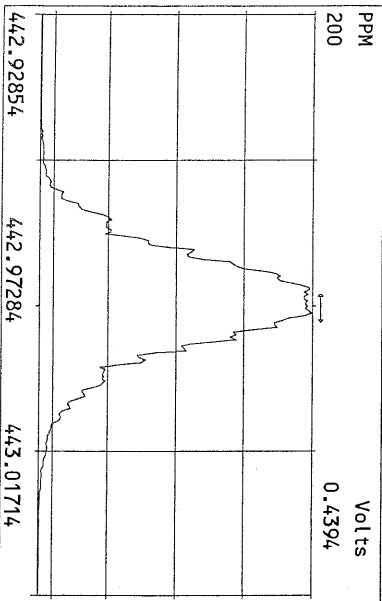
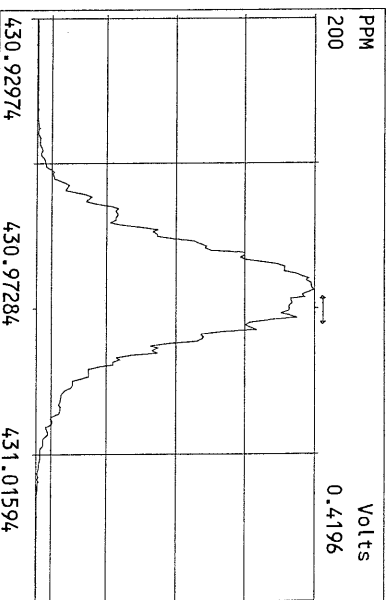
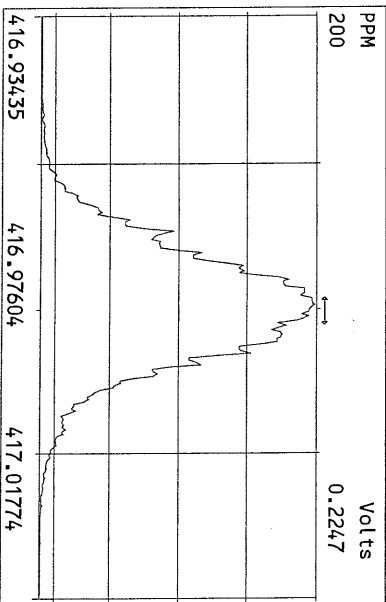
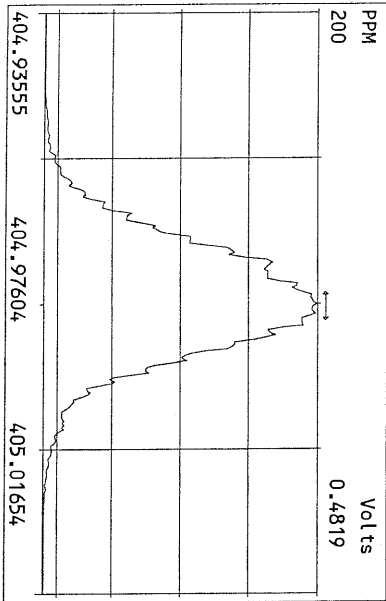
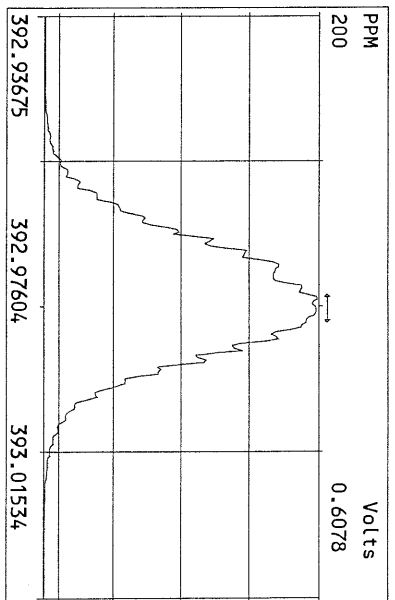
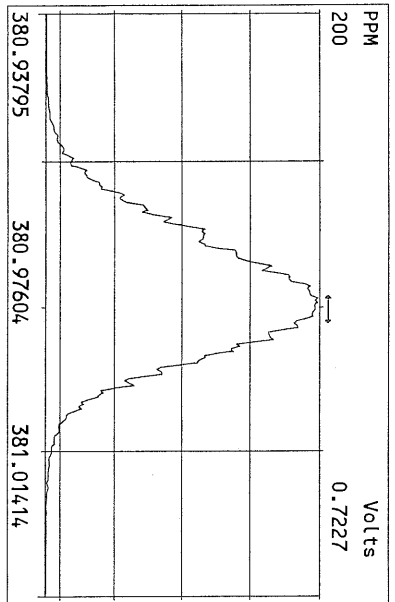
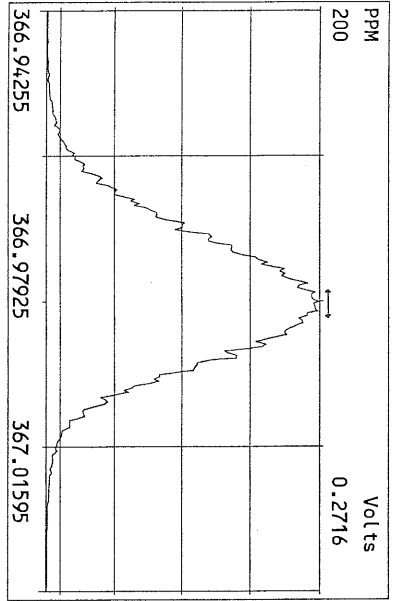
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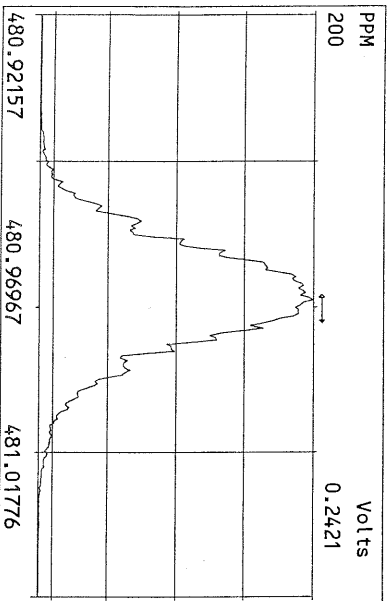
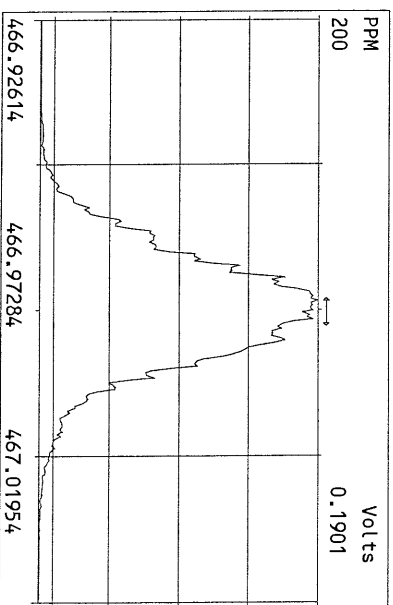
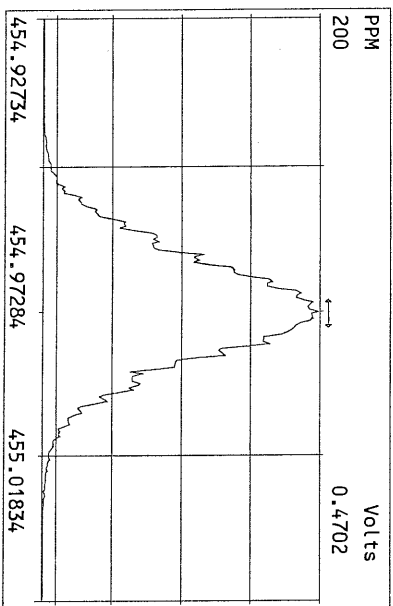
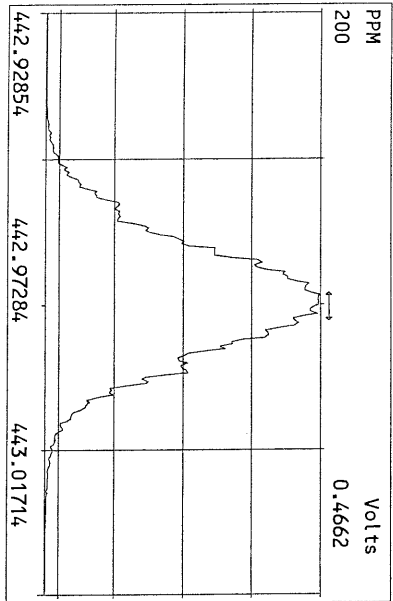
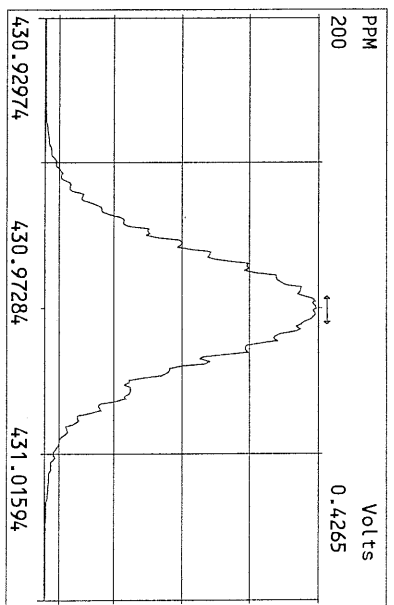
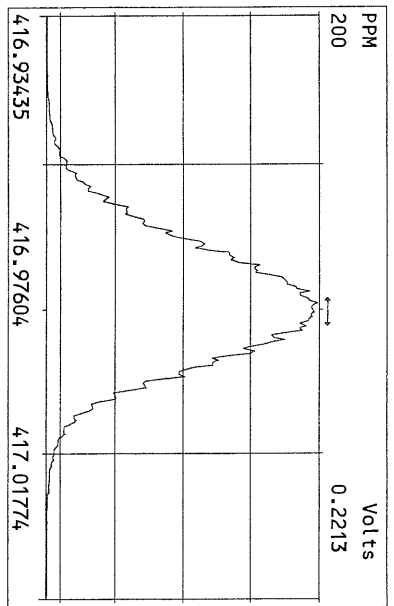
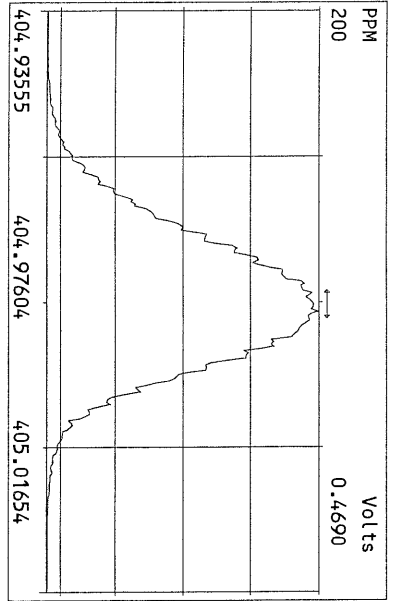
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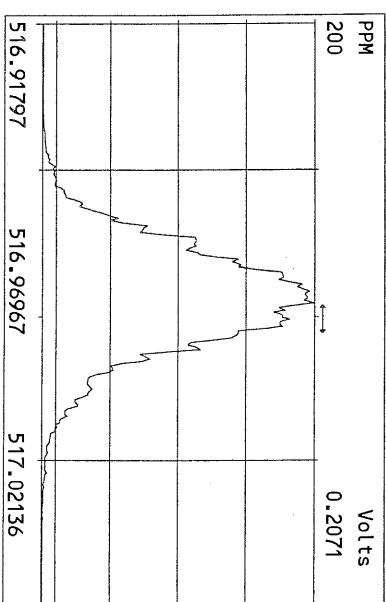
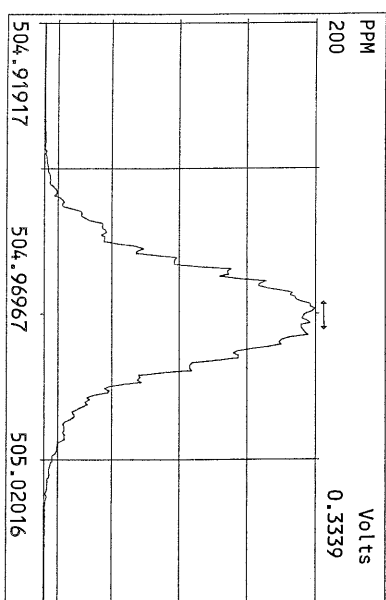
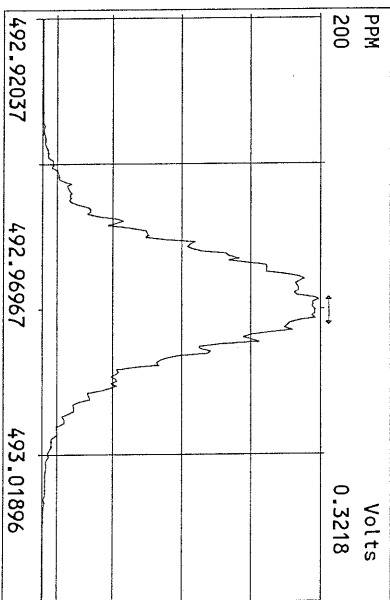
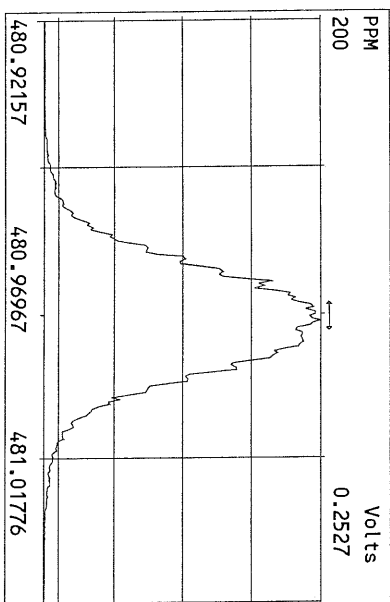
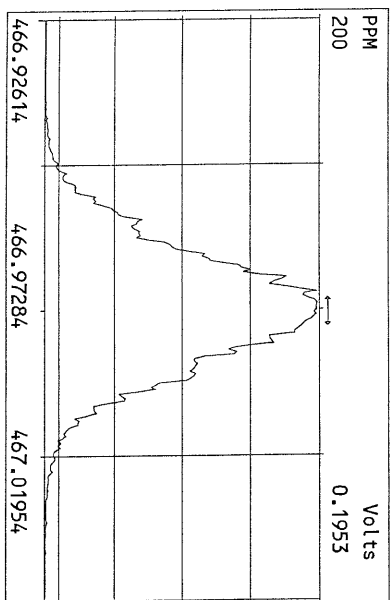
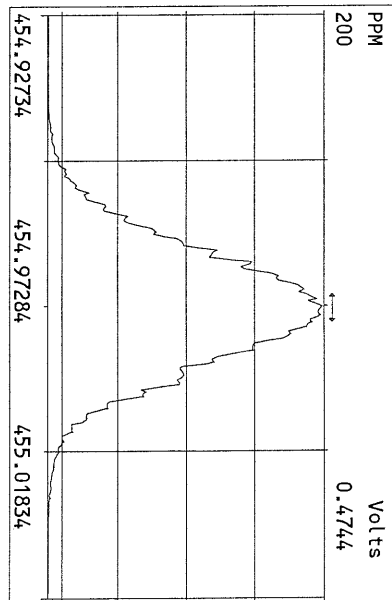
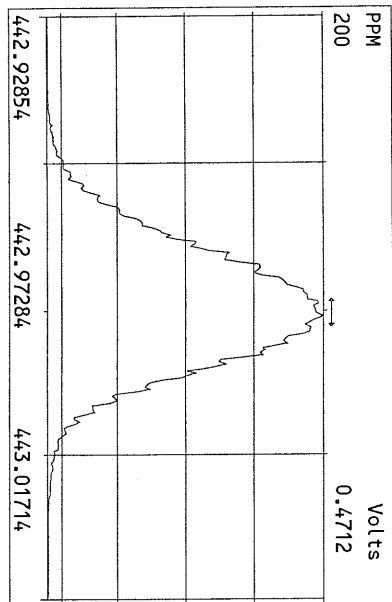
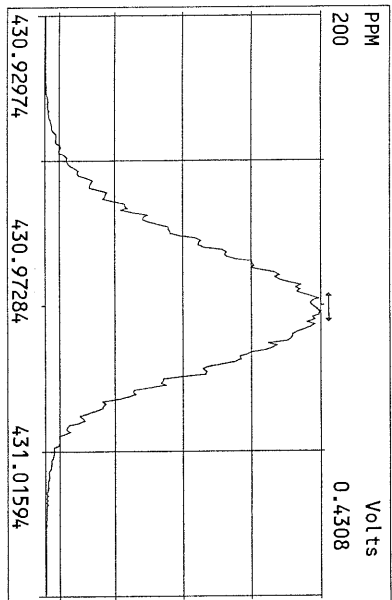
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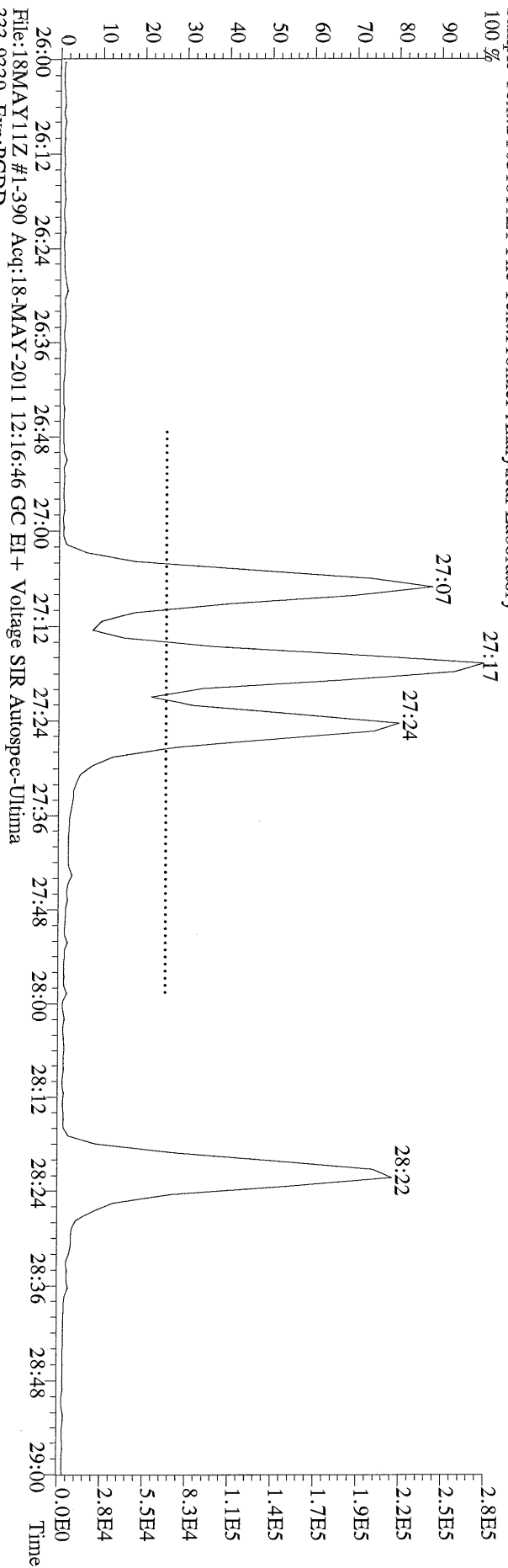




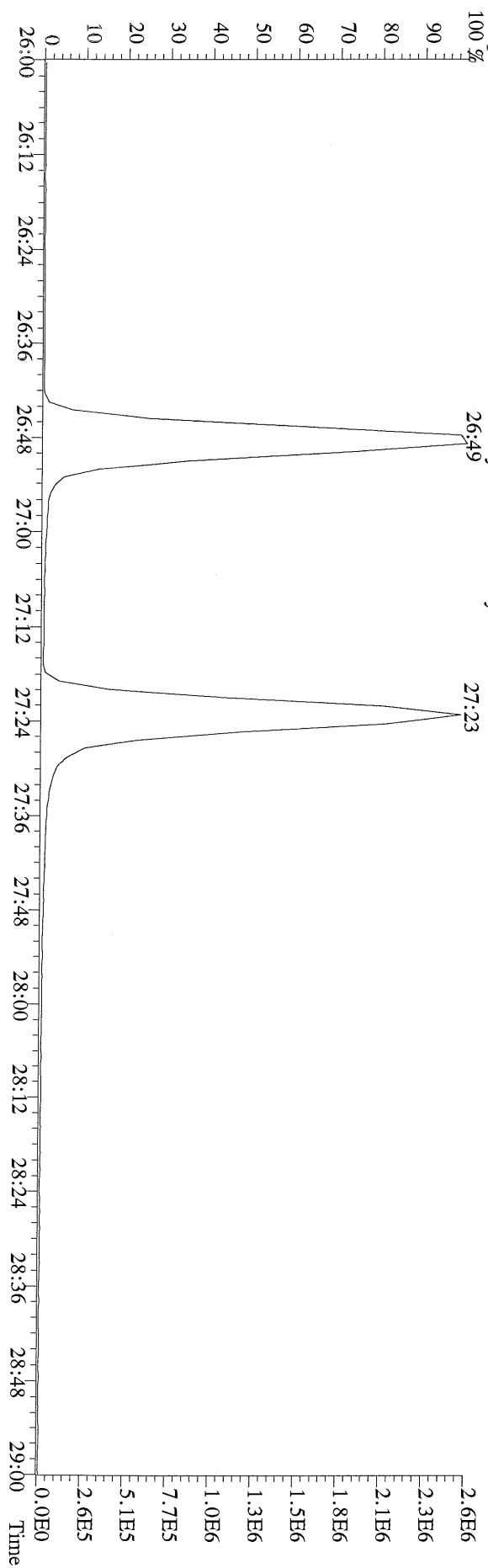




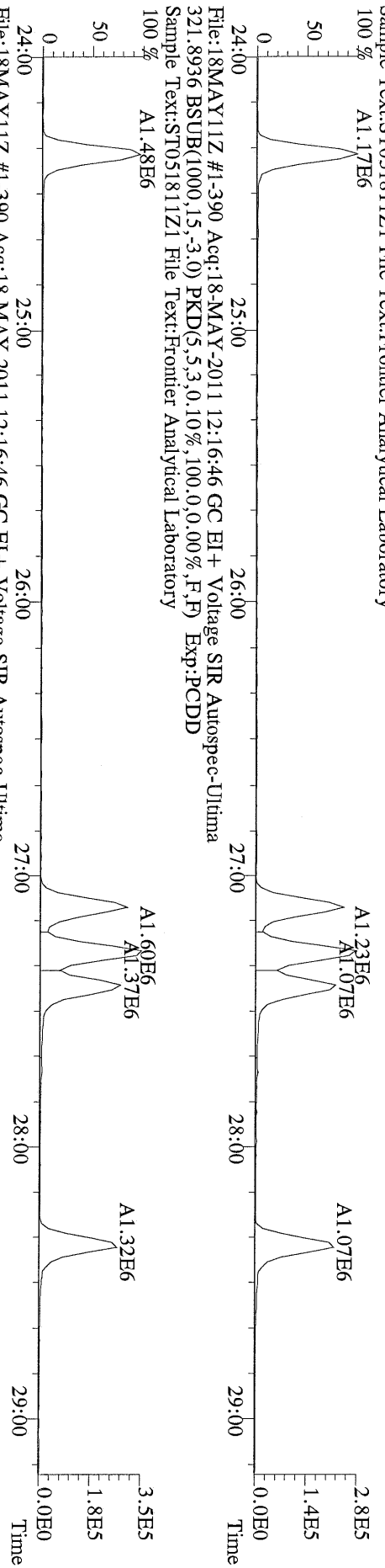
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Sample Text: ST051811Z1 File Text: Frontier Analytical Laboratory
100 %



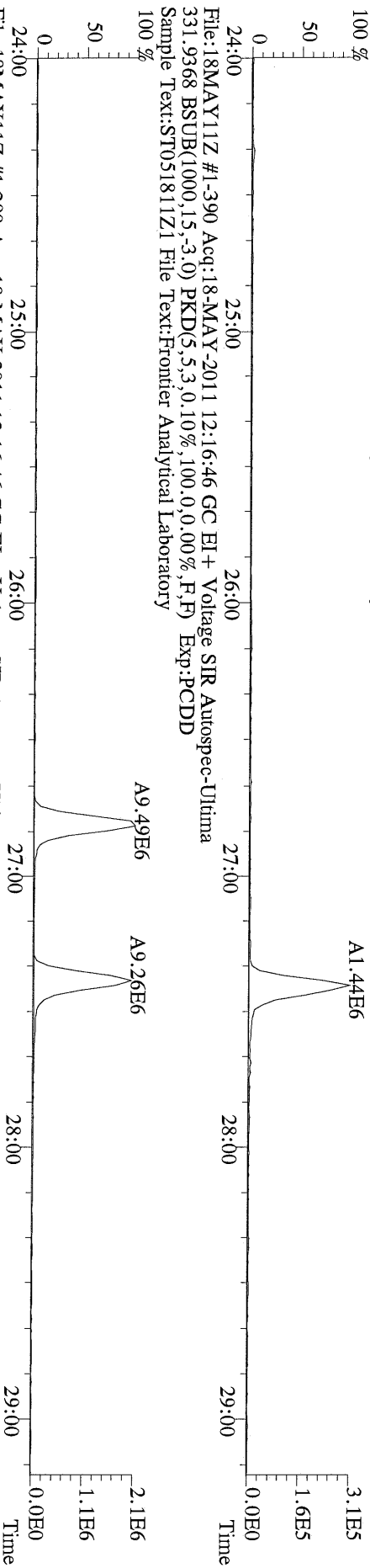
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100 %



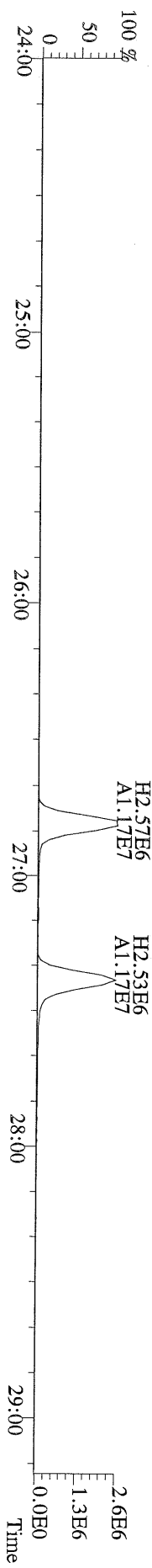
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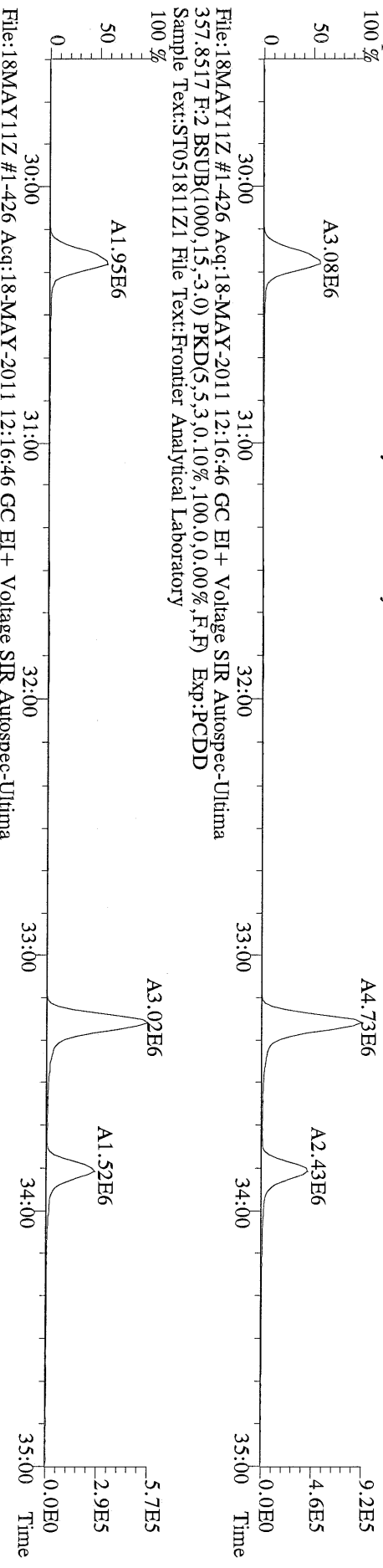
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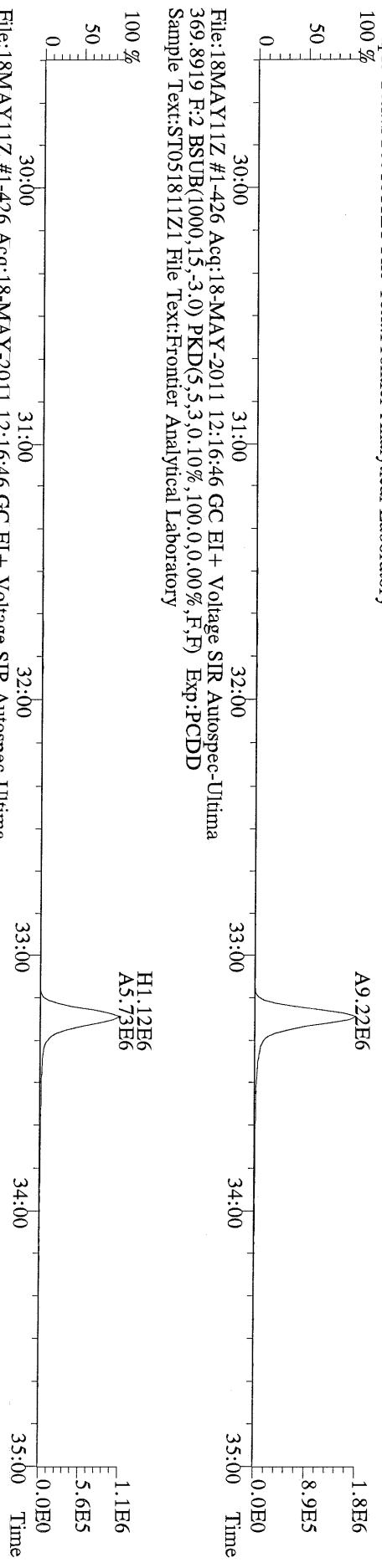
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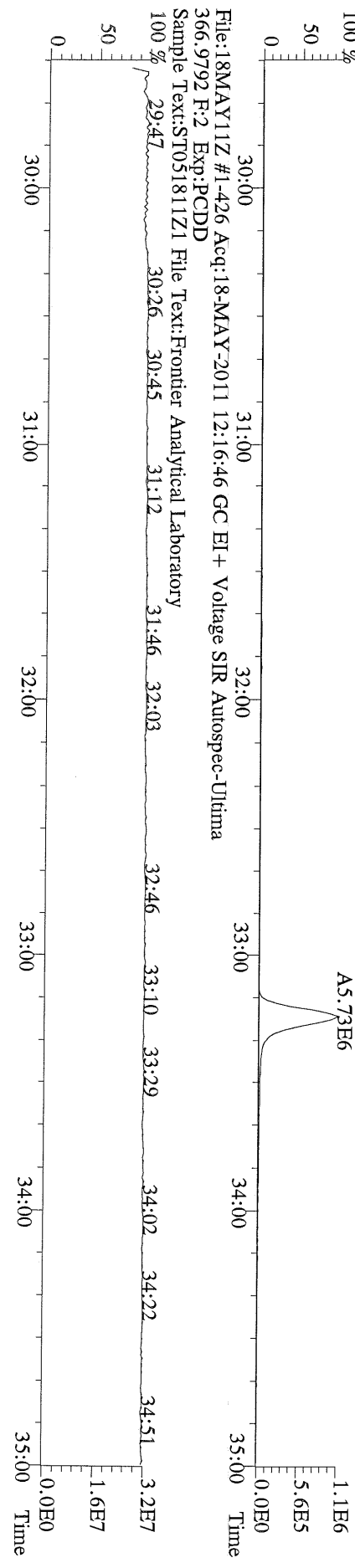
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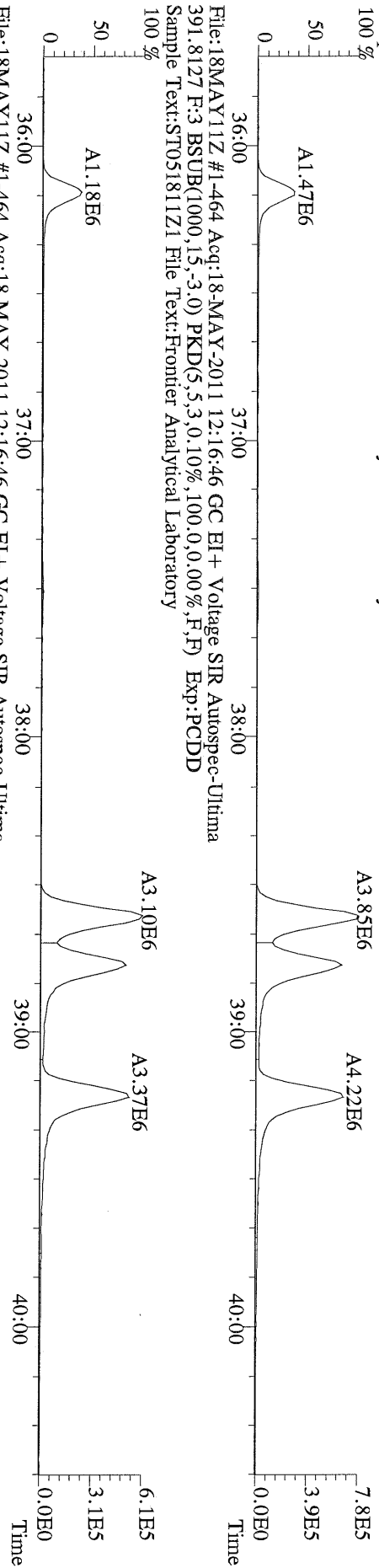
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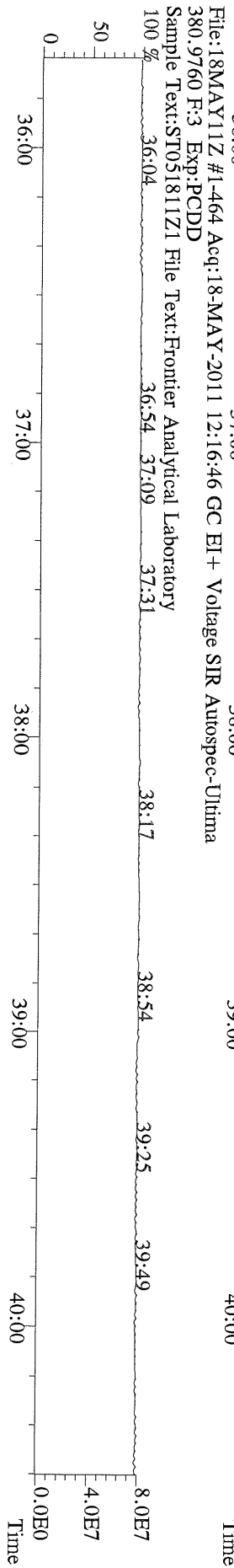
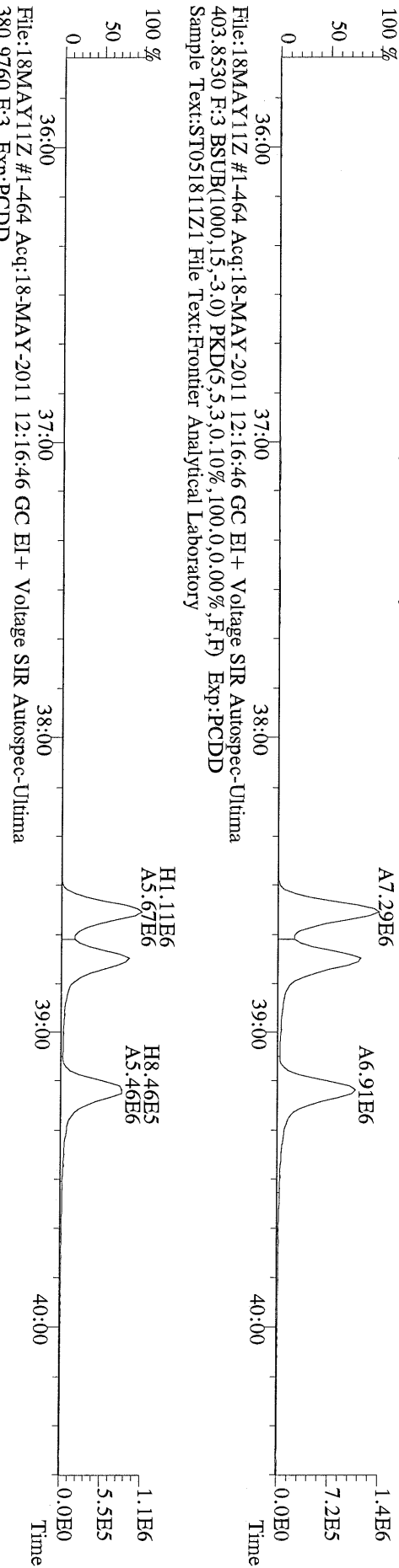
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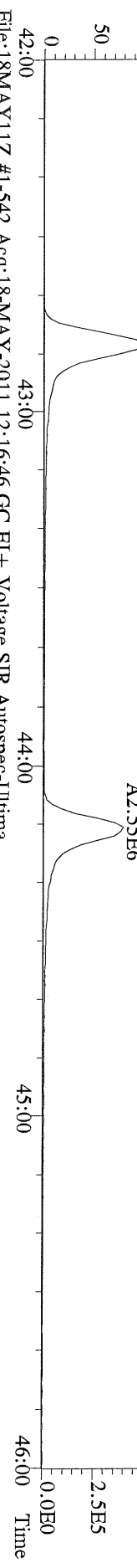
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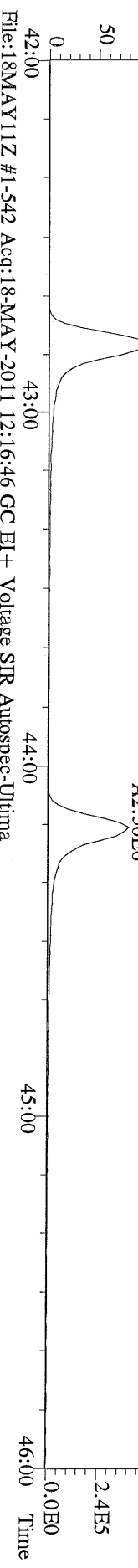
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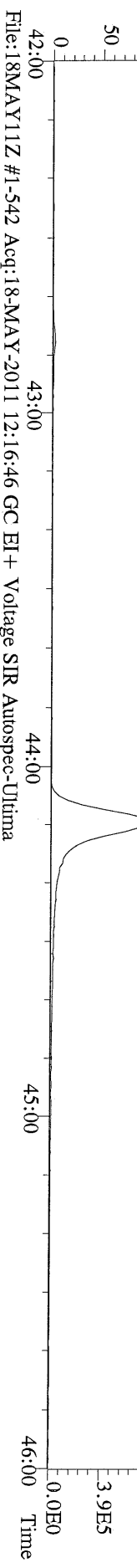
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423.7767 F:4 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



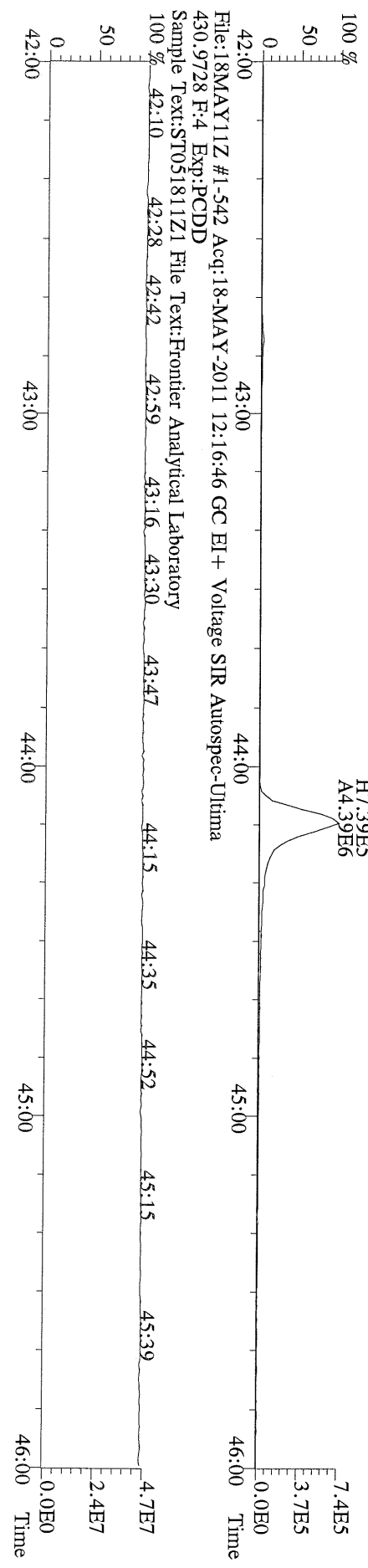
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425.7737 F:4 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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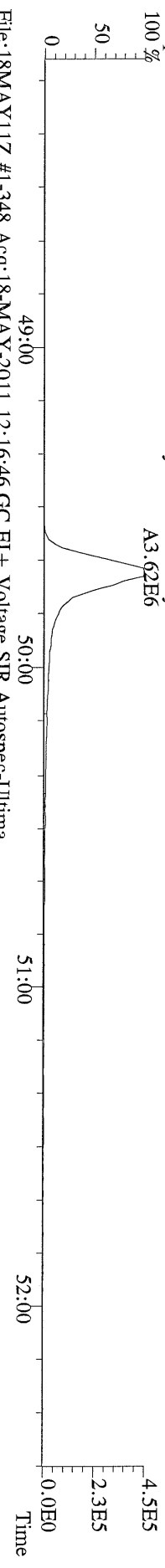
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435.8169 F:4 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



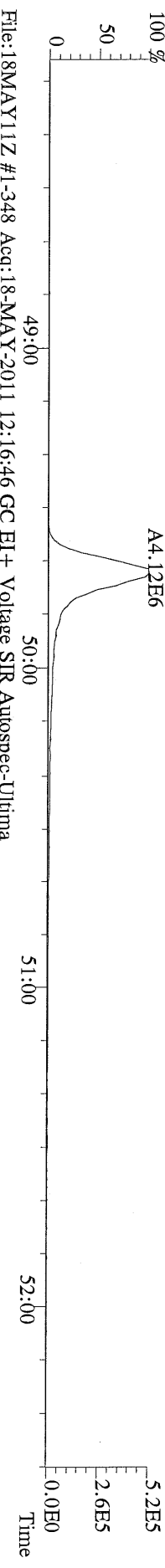
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Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



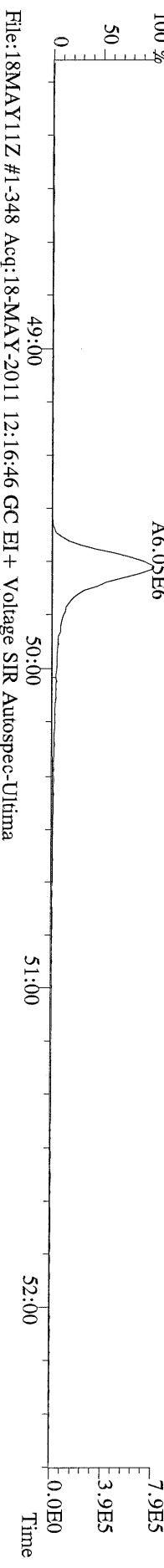
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457.7377 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory
100 %



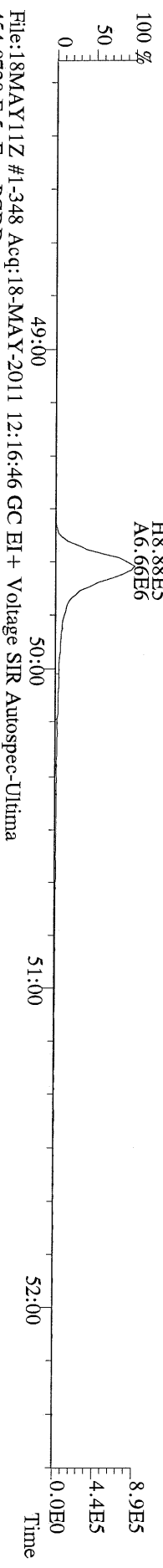
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459.7348 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory
100 %



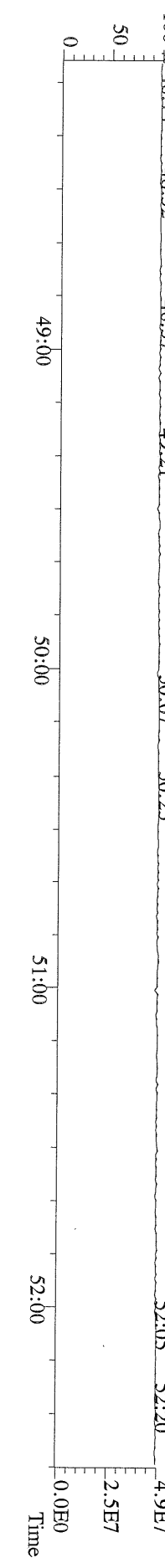
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469.7780 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory
100 %



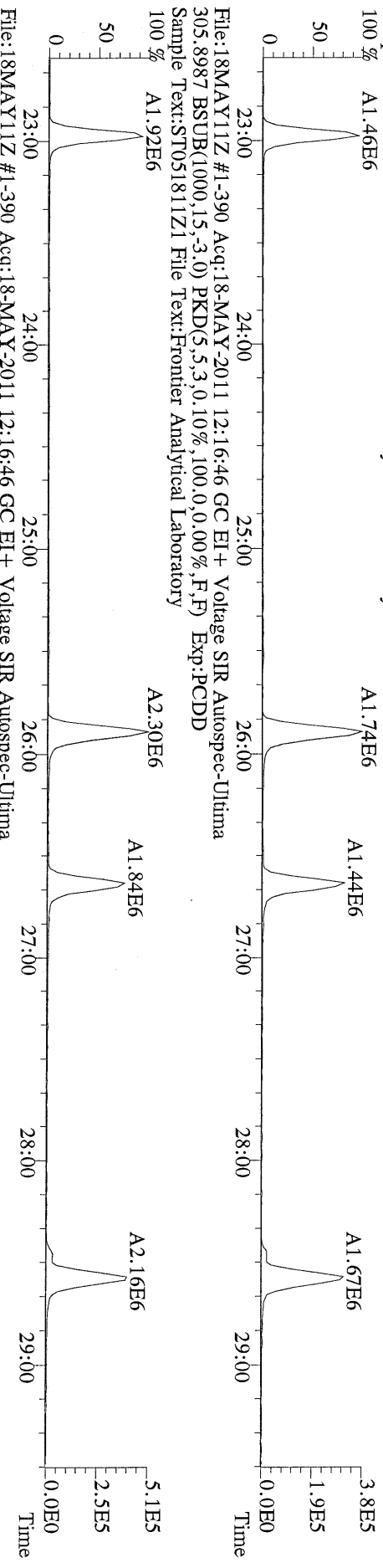
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471.7750 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



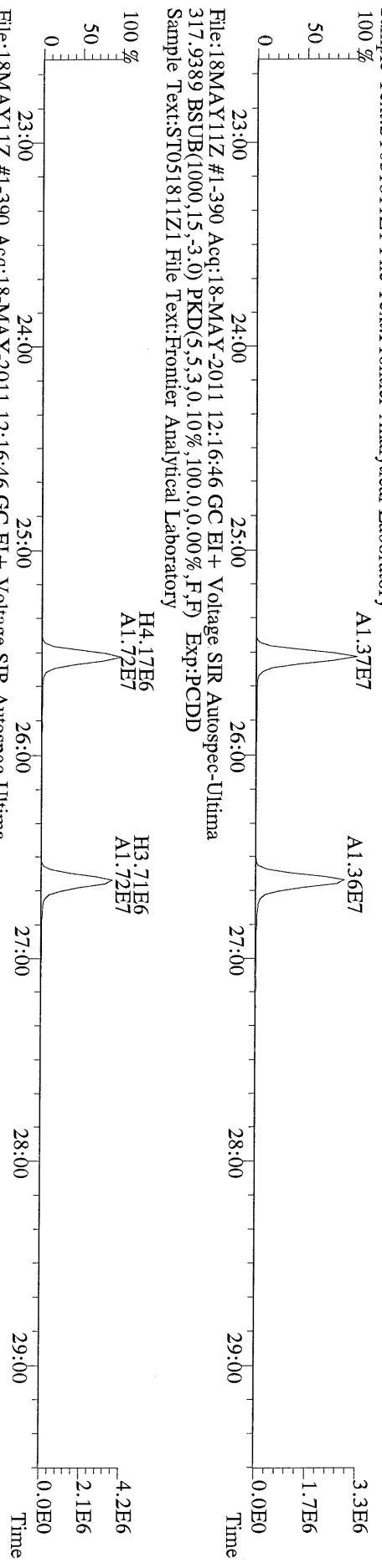
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454.9728 F:5 Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory
100 %



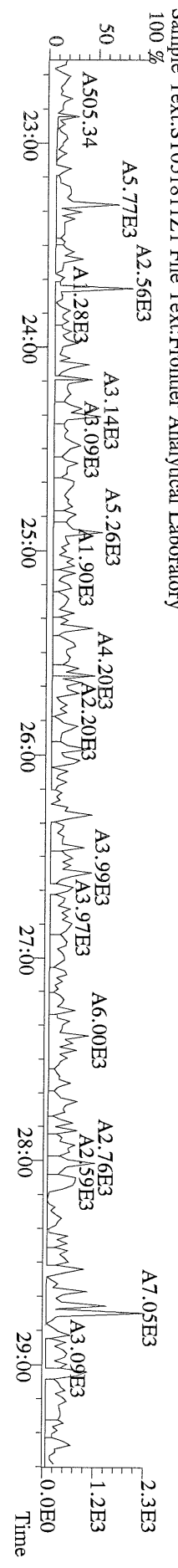
File:18MAY11Z #1-390 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



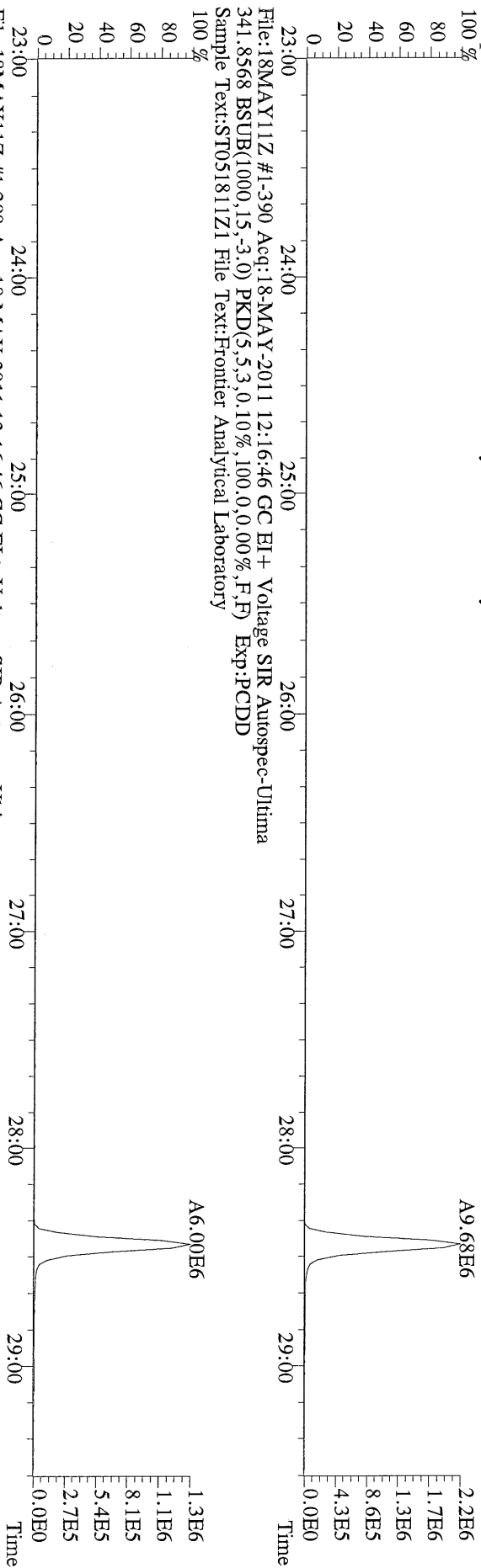
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315.9419 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



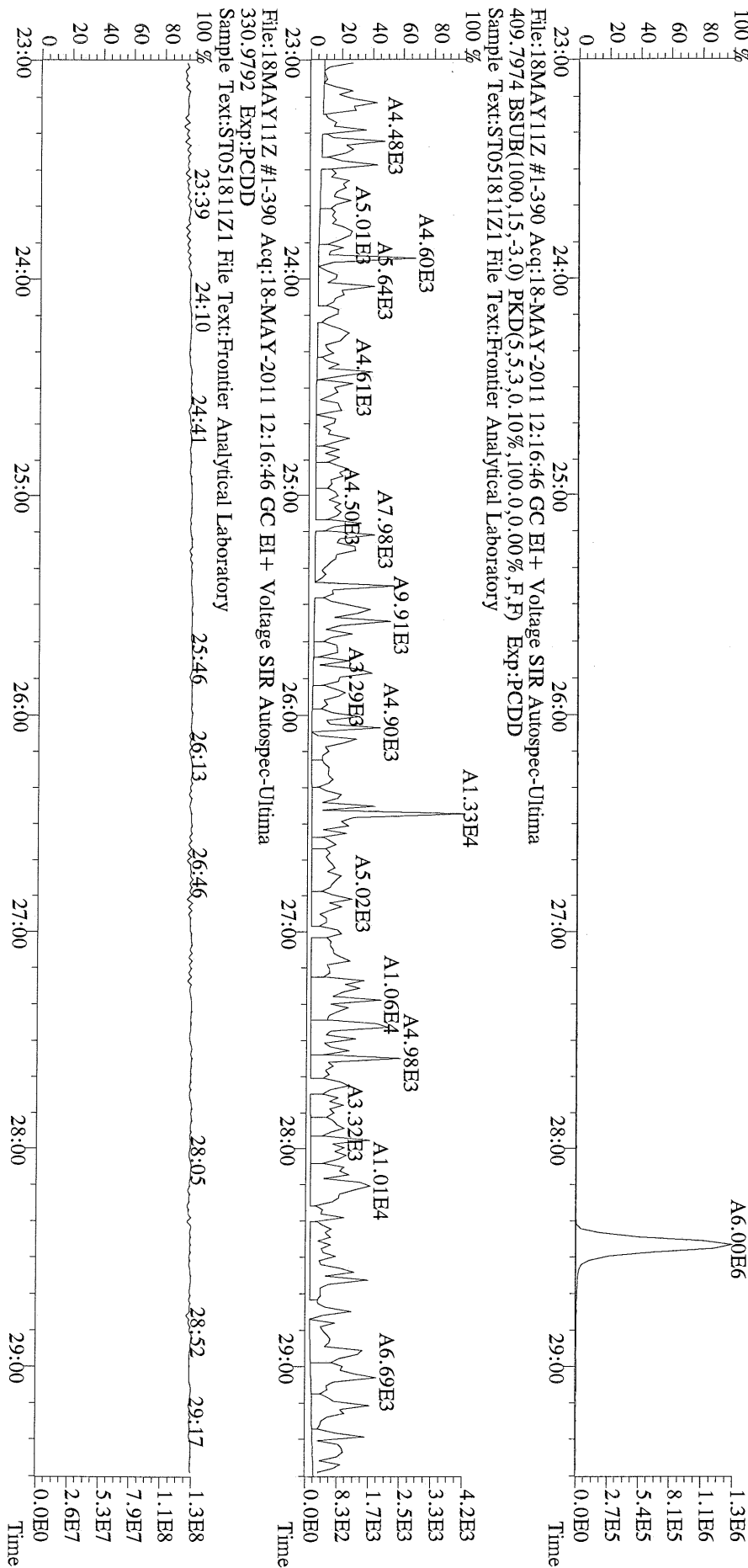
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375.8364 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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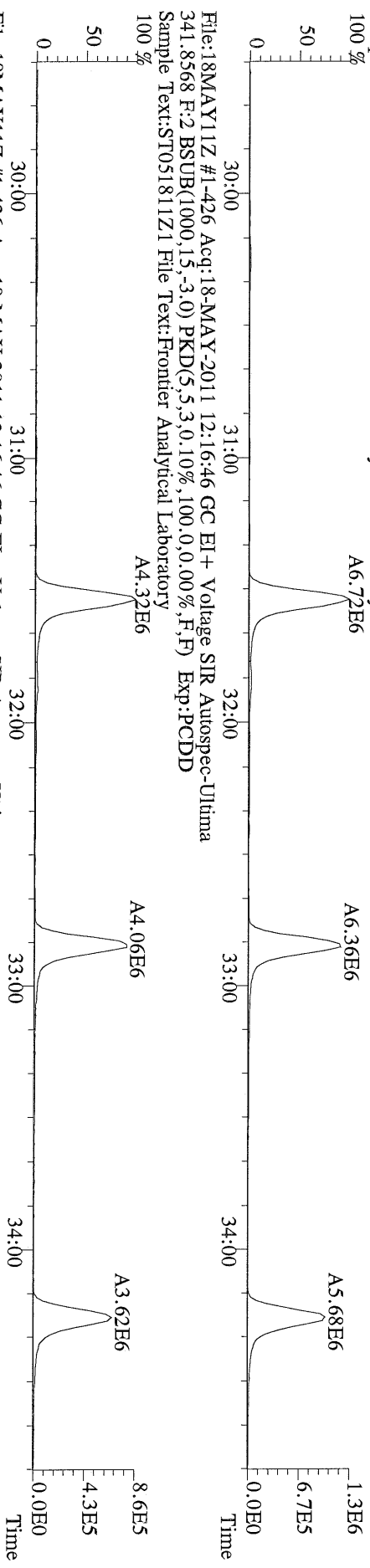
File:18MAY11Z #1-390 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



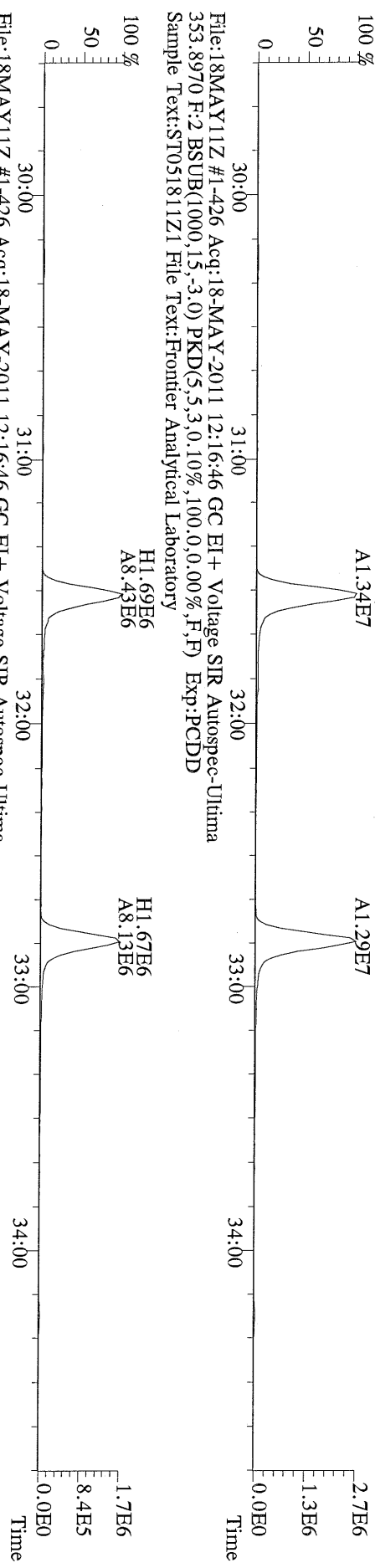
File:18MAY11Z #1-390 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



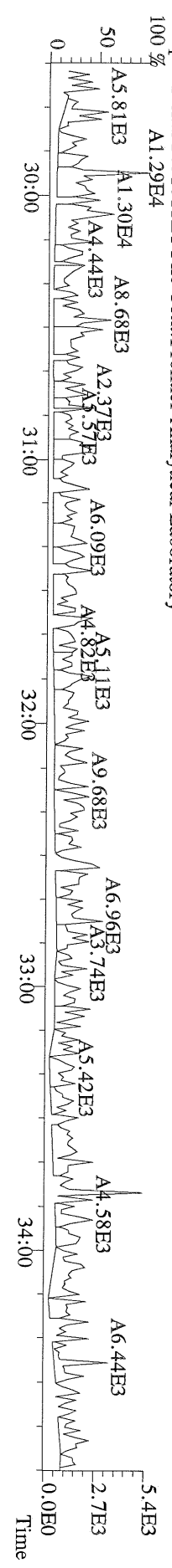
File:18MAY11Z #1-426 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
339.8597 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



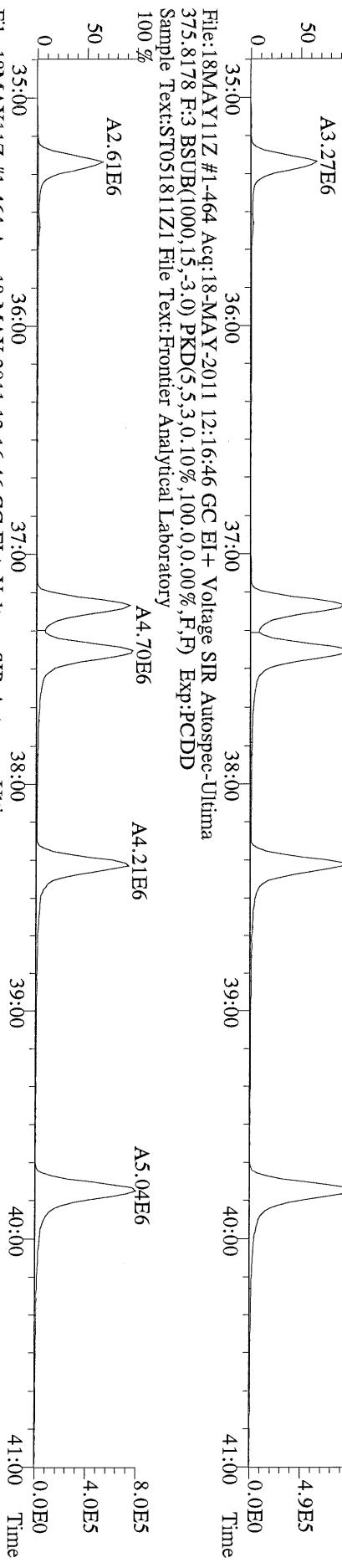
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351.9000 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



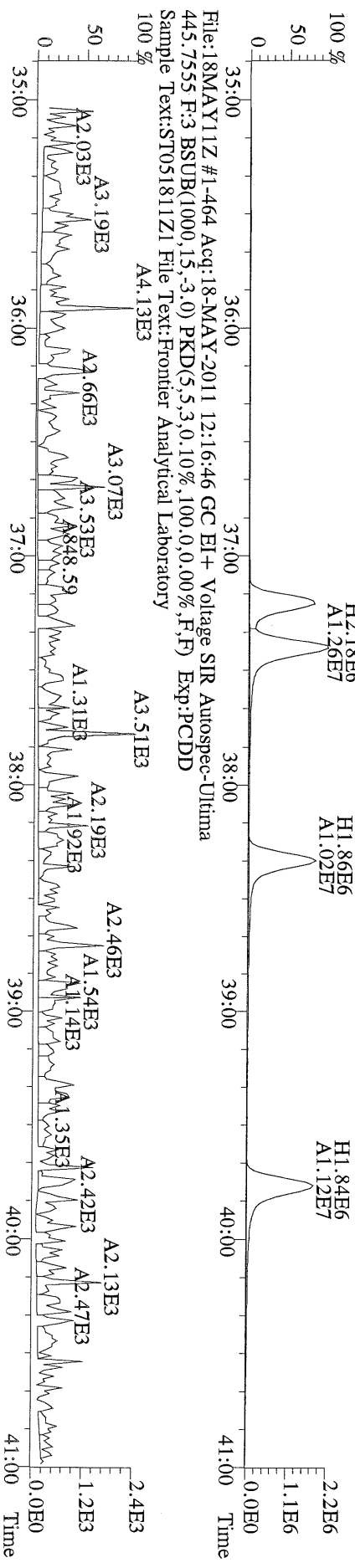
File:18MAY11Z #1-426 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
409.7974 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



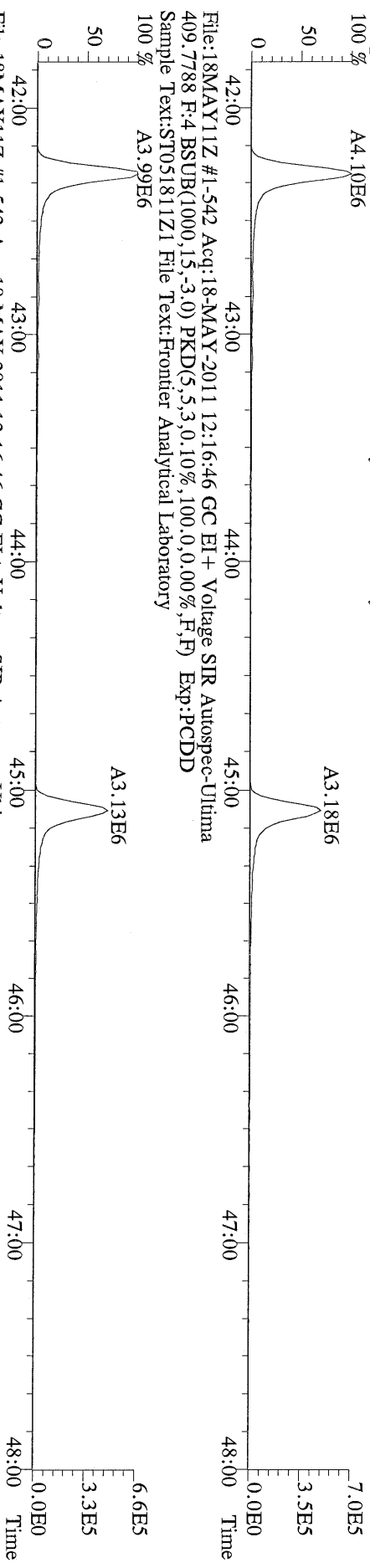
File: 18MAY11Z #1-464 Acq: 18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



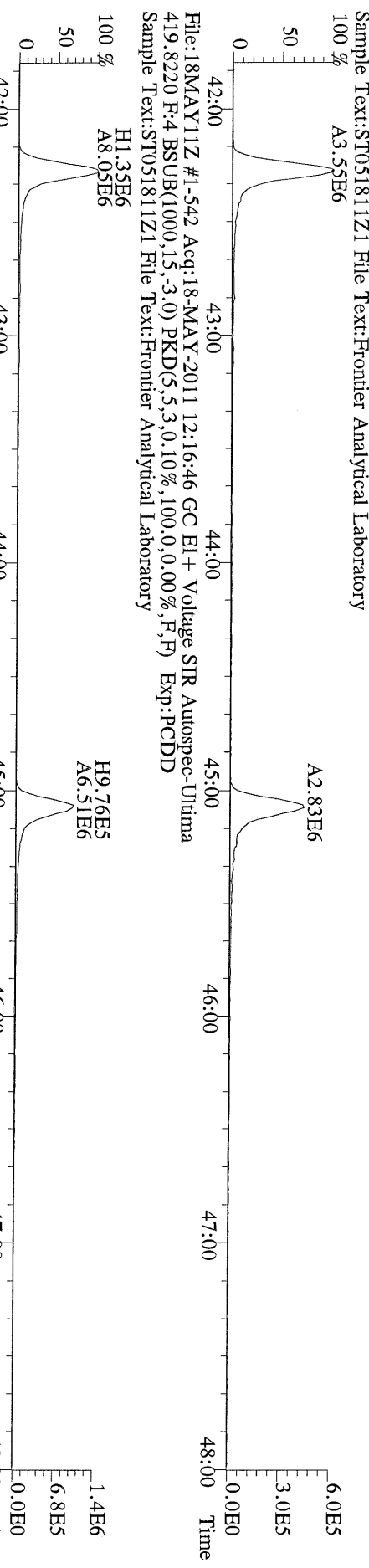
File: 18MAY11Z #1-464 Acq: 18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
385.8610 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



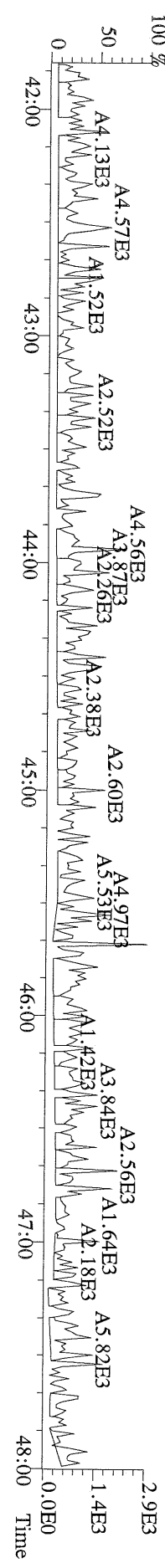
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407.7818 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory
100 %



File:18MAY11Z #1-542 Acq:18-MAY-2011 12:16:46 GC EI+ Voltage SIR Autospec-Ultima
417.8253 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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100 %



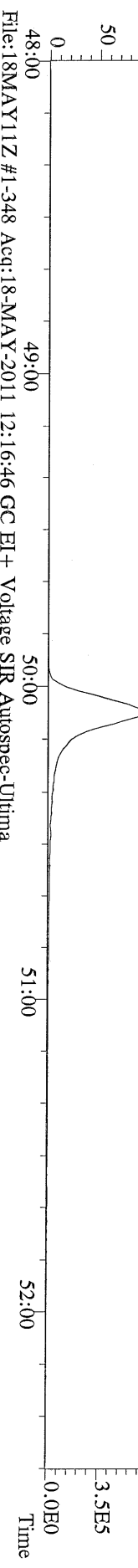
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479.7165 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory
100 %



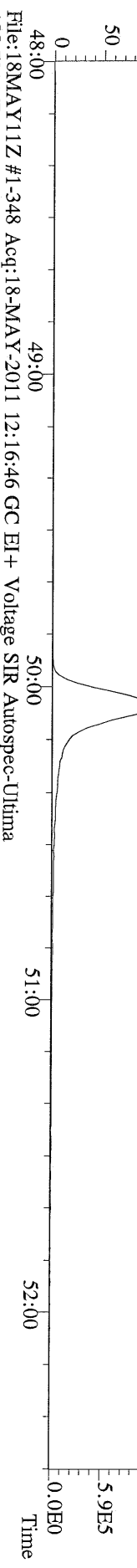
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441.7428 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



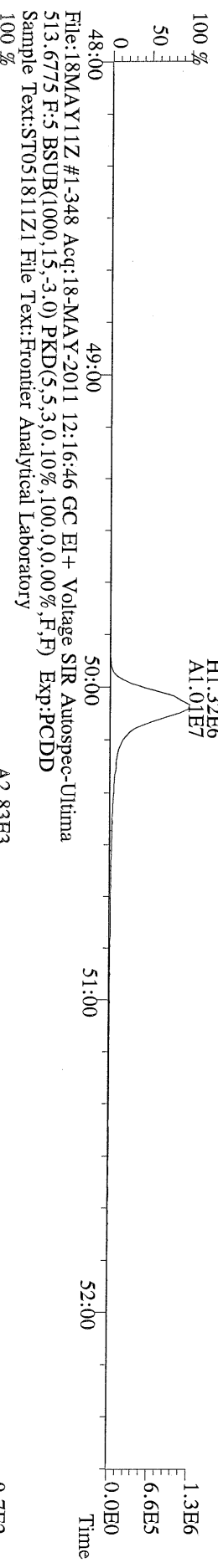
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443.7398 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory



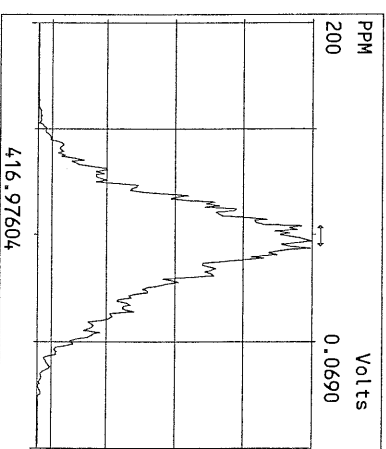
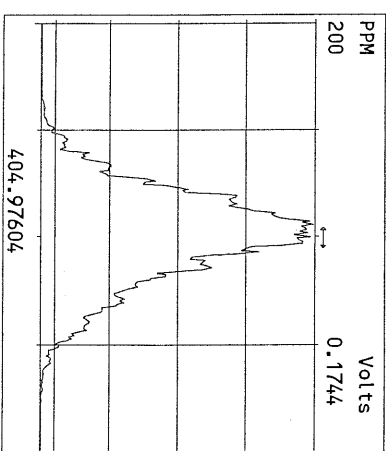
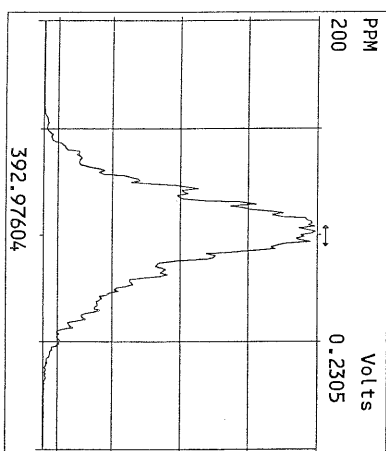
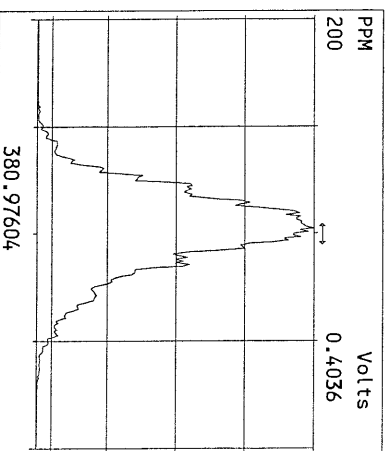
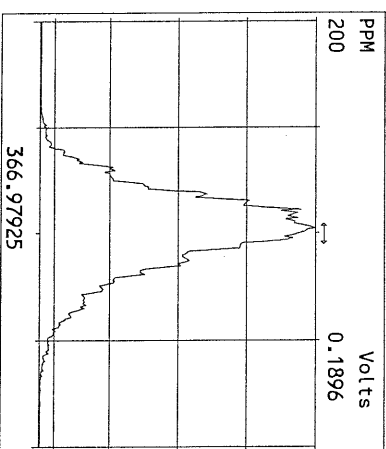
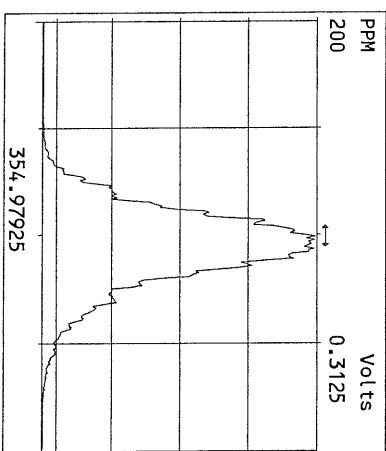
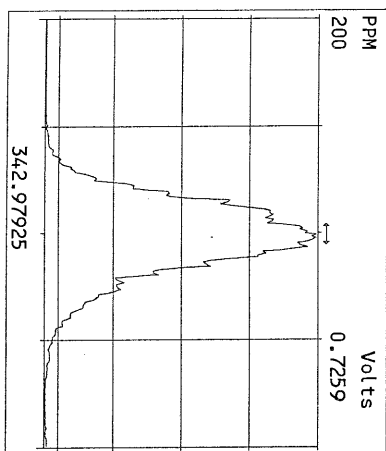
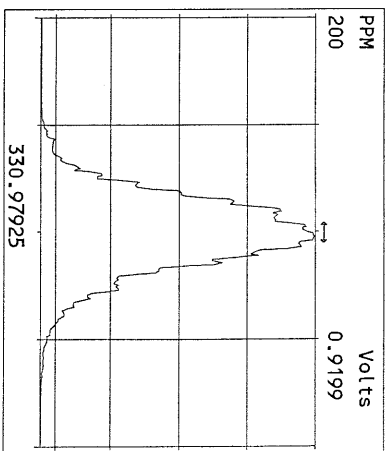
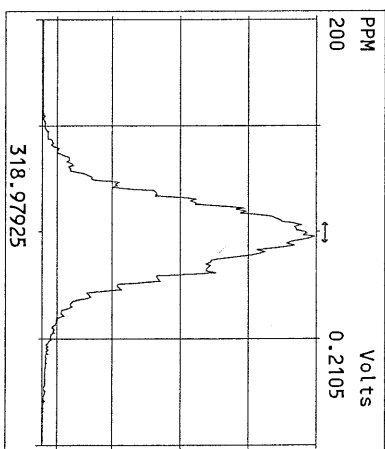
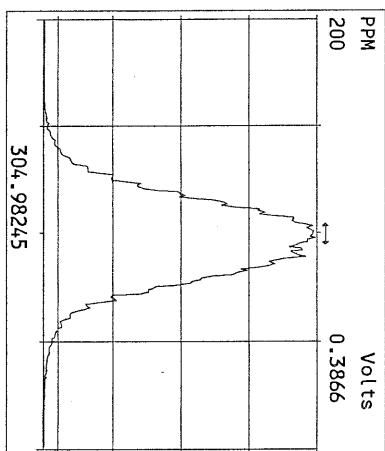
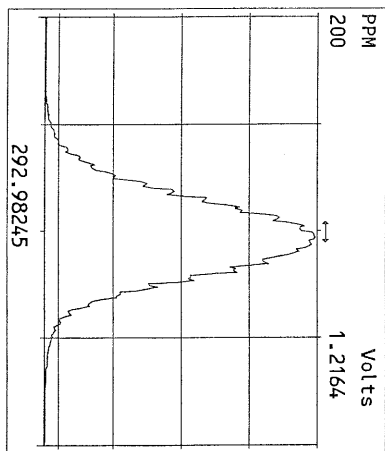
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Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory

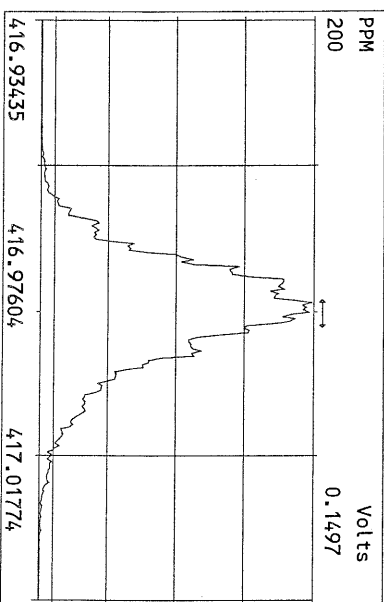
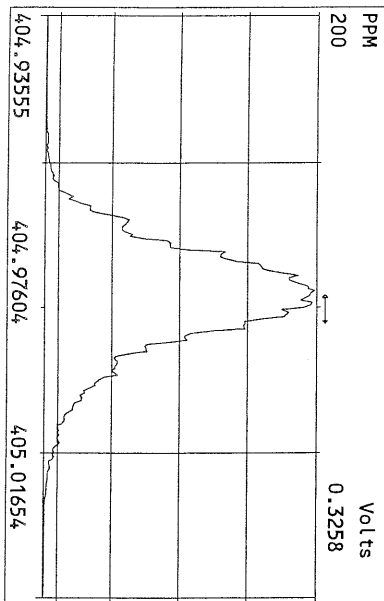
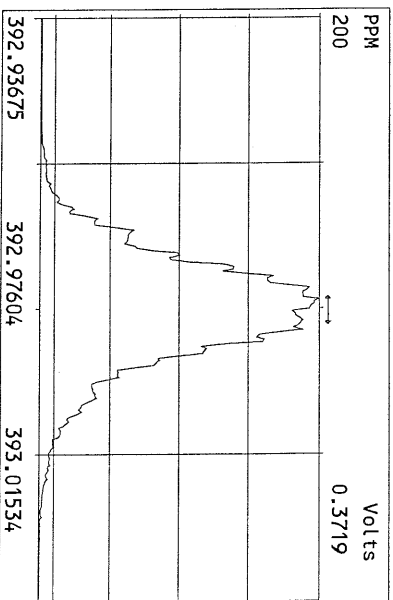
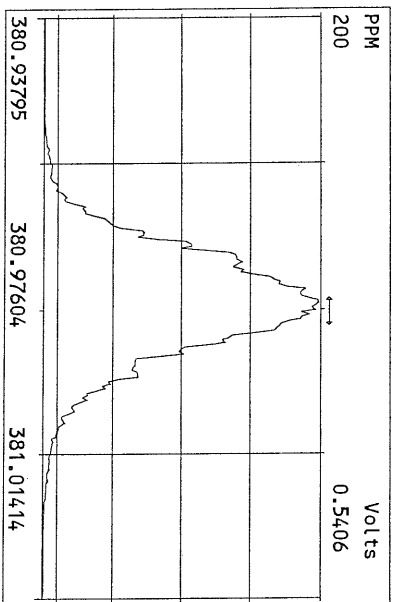
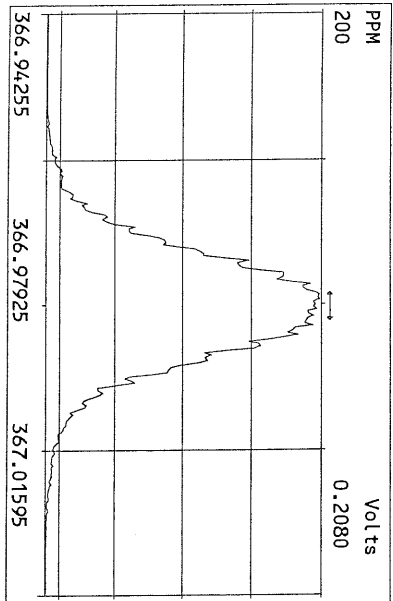
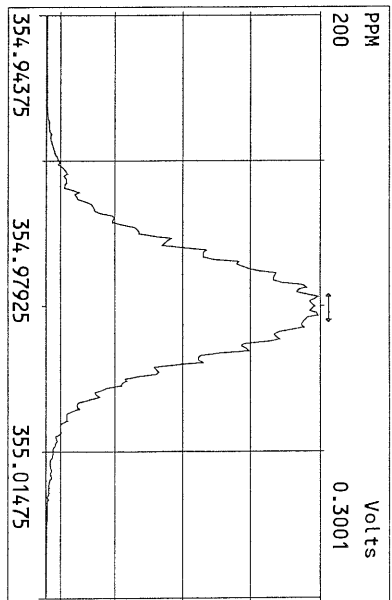
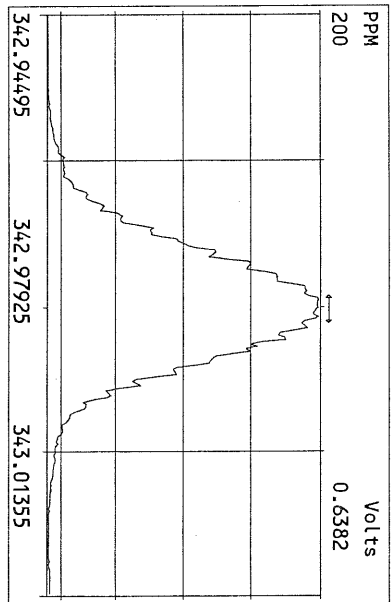
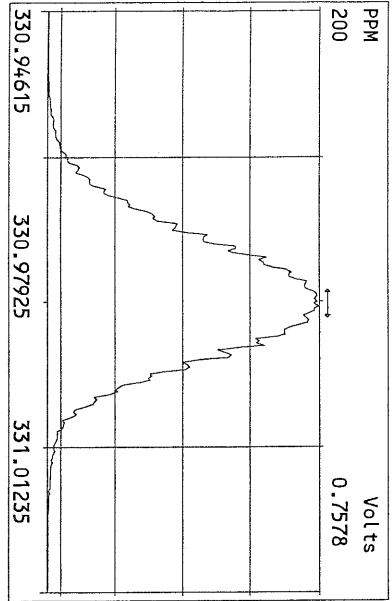


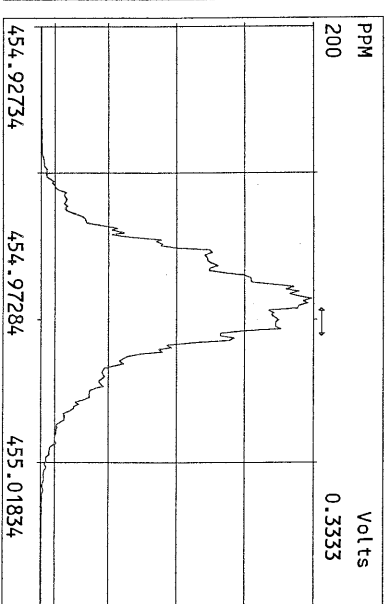
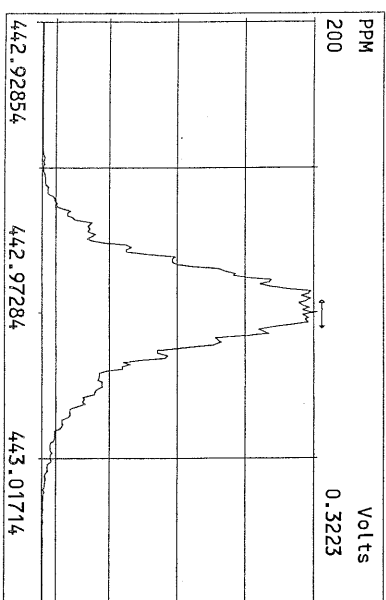
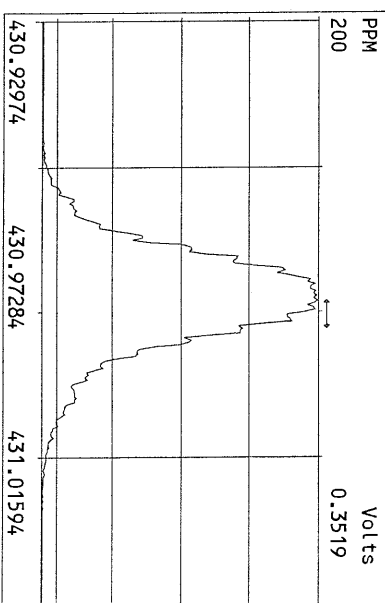
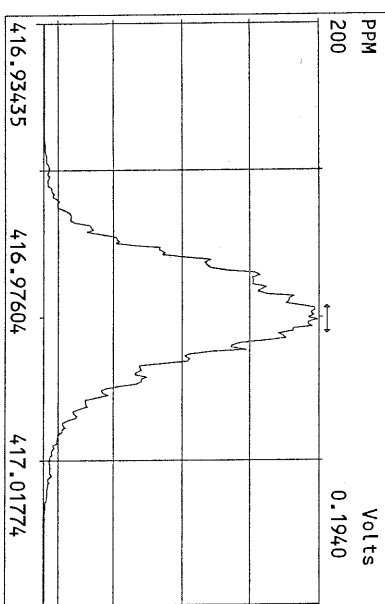
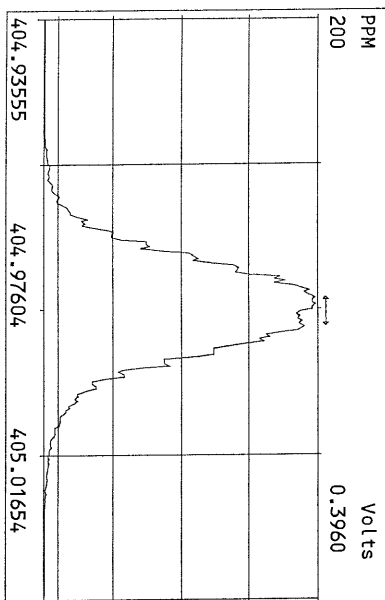
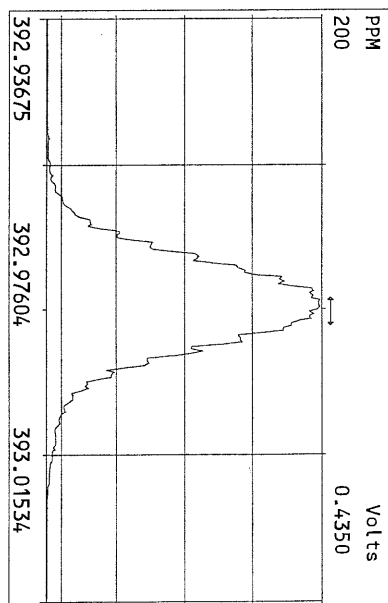
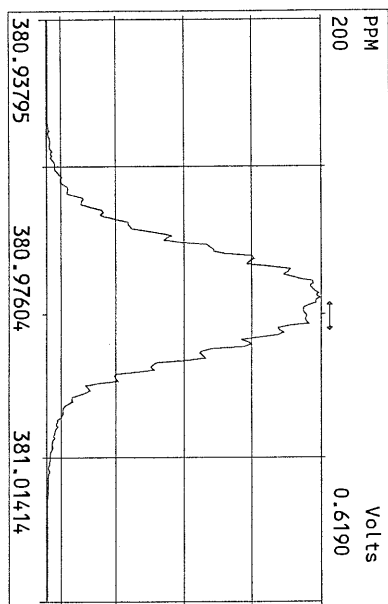
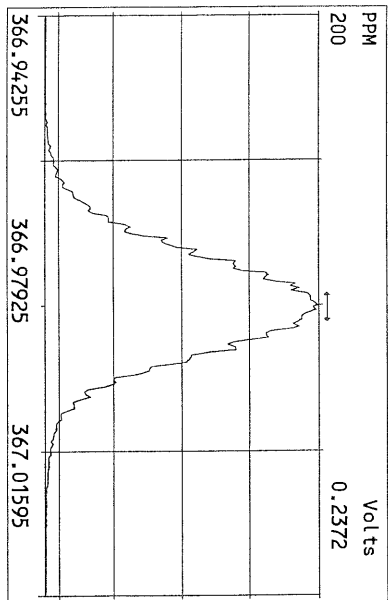
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455.7801 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory

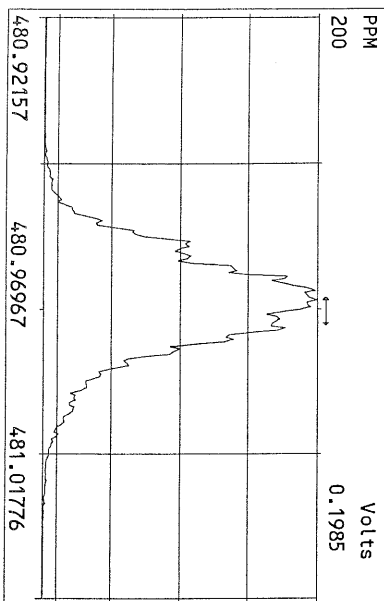
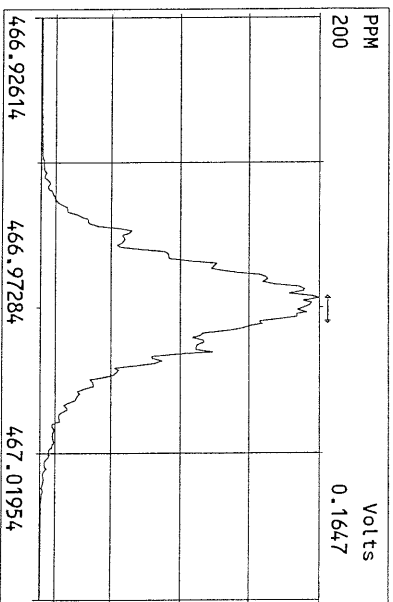
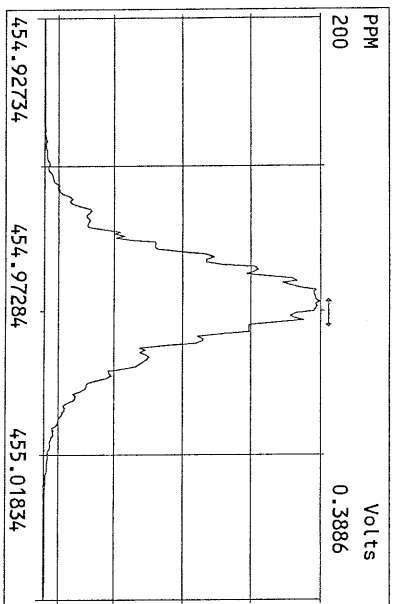
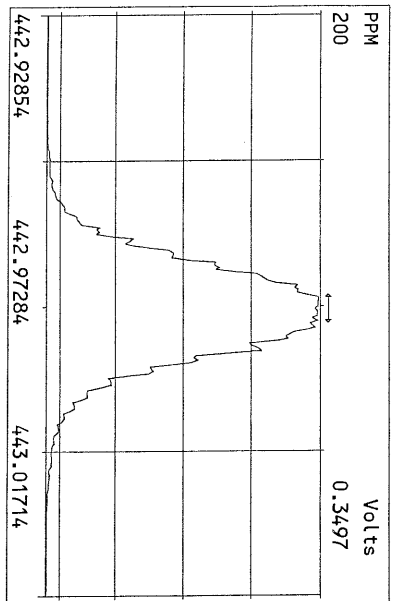
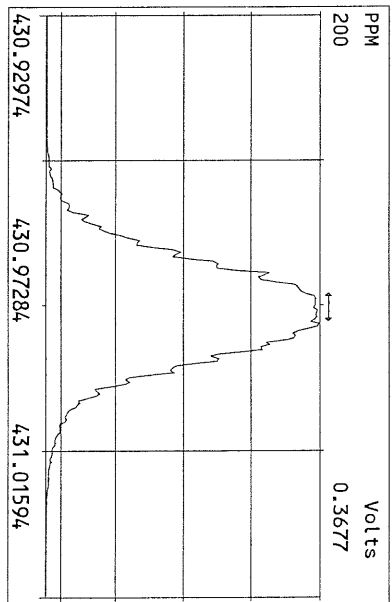
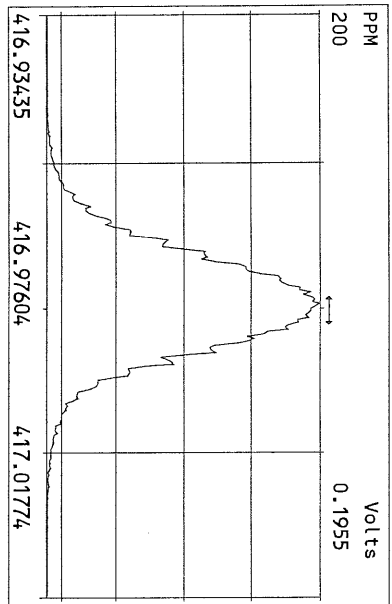
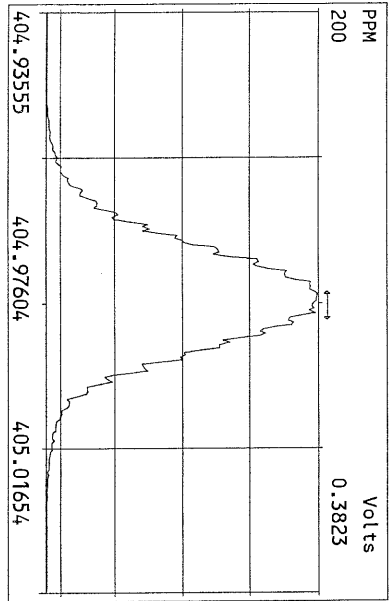


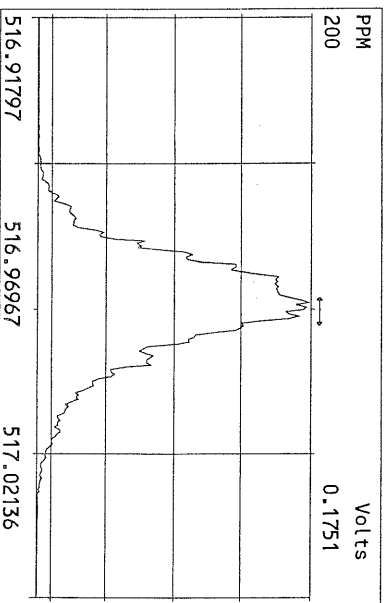
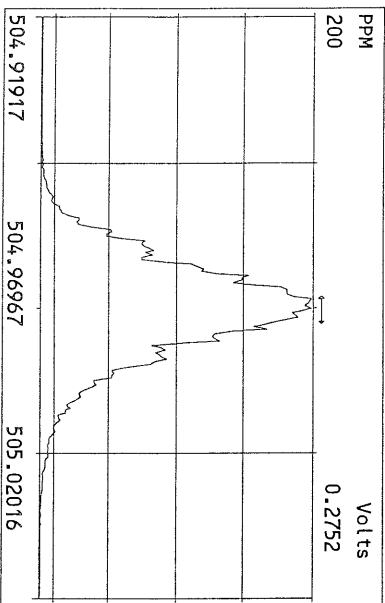
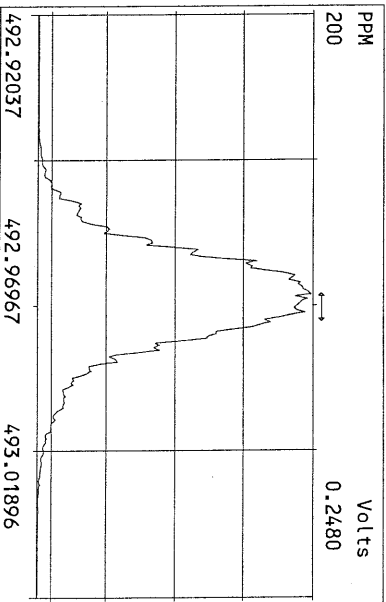
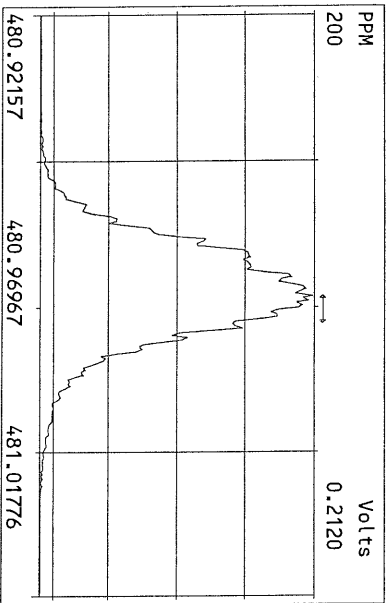
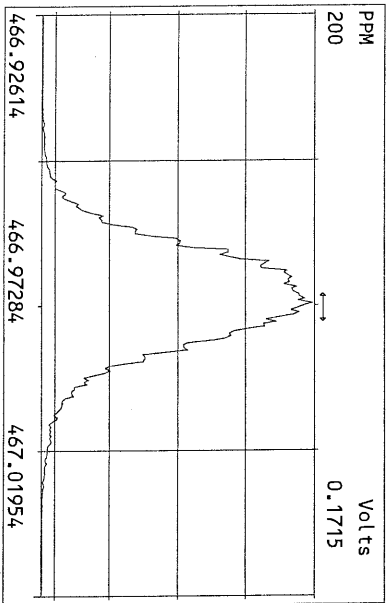
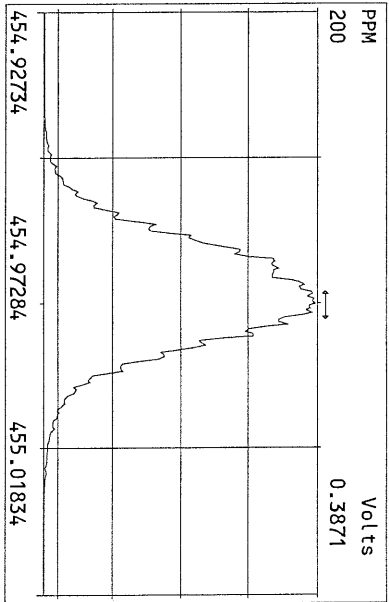
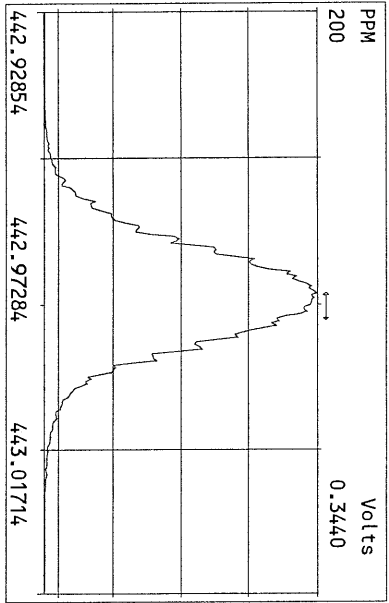
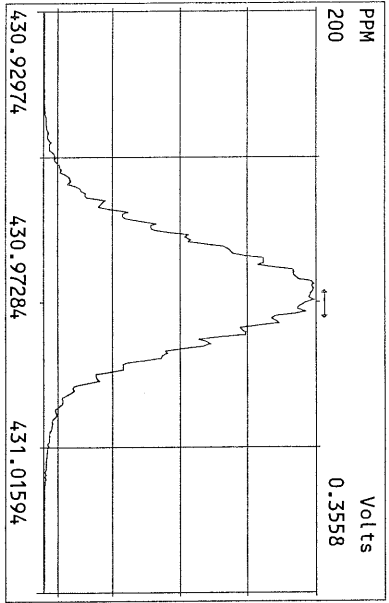
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Sample Text:ST051811Z1 File Text:Frontier Analytical Laboratory











Frontier Analytical Laboratory - Acquisition Log

Run Name:18MAY11Z Instrument: FAL4 GC: DB5 Experiment:PCDD

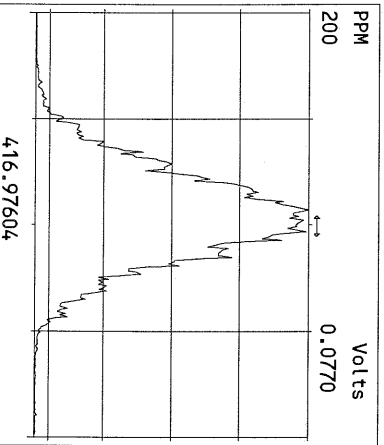
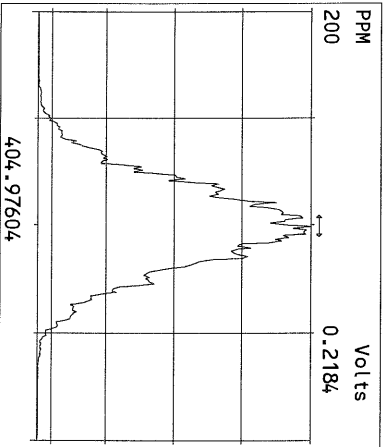
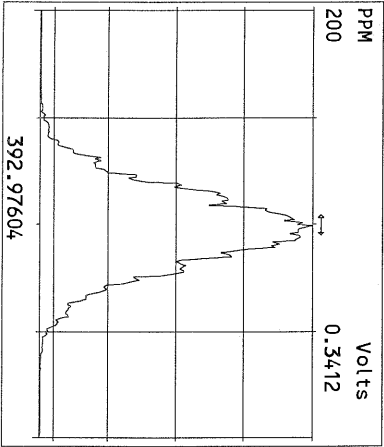
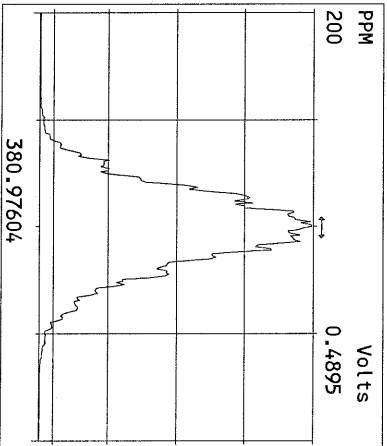
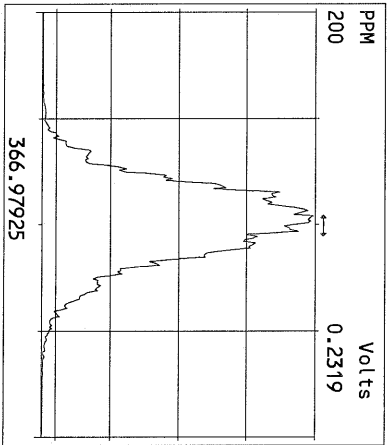
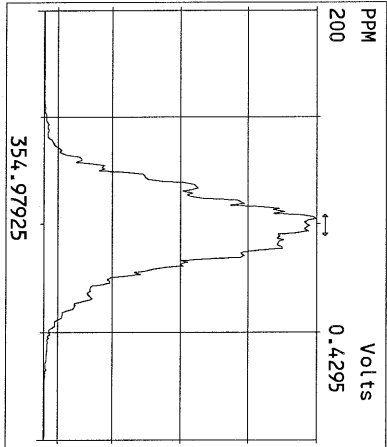
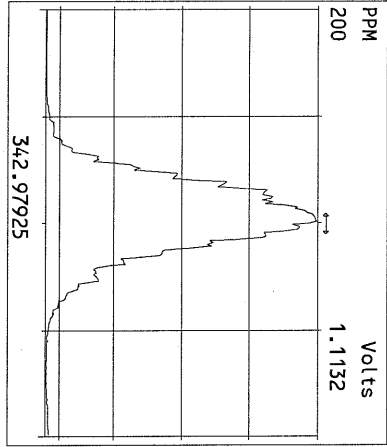
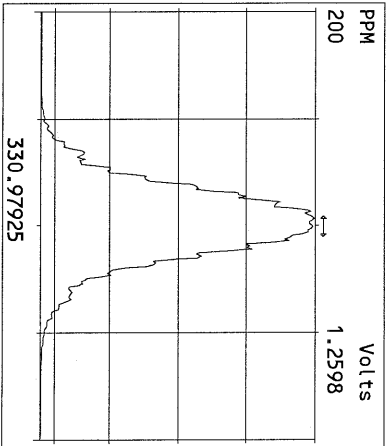
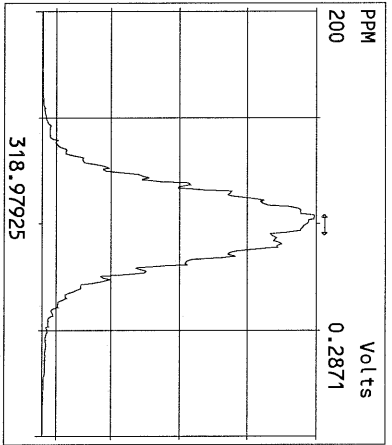
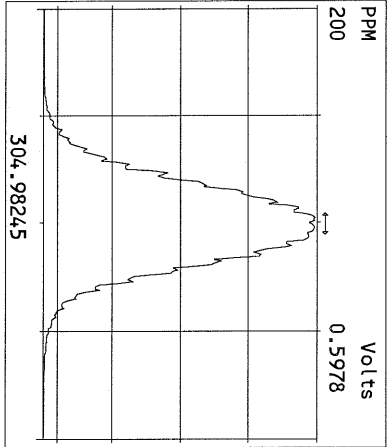
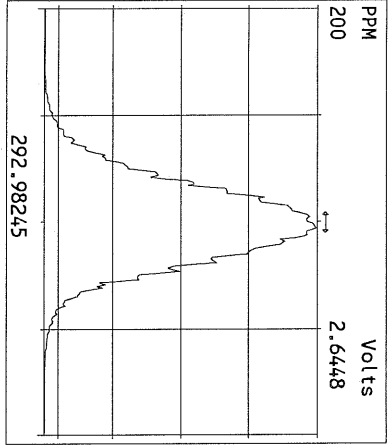
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18MAY11Z	2	SB051811Z1	Solvent Blank	18-MAY-11 13:11:33	ST051811Z1	ST051811Z2	BS
18MAY11Z	3	2293-001-0001-OPR	OPR	18-MAY-11 14:06:21	ST051811Z1	ST051811Z2	BS
18MAY11Z	4	2293-001-0001-MB	Method Blank	18-MAY-11 15:01:08	ST051811Z1	ST051811Z2	BS
18MAY11Z	5	6739-001-0001-SA	MW02-042611	18-MAY-11 15:55:55	ST051811Z1	ST051811Z2	BS
18MAY11Z	6	6739-002-0001-SA	MW03-042611	18-MAY-11 16:50:42	ST051811Z1	ST051811Z2	BS
18MAY11Z	7	6739-003-0001-SA	MW13-042611	18-MAY-11 17:45:30	ST051811Z1	ST051811Z2	BS
18MAY11Z	8	6740-001-0001-SA	MW07-042711	18-MAY-11 18:40:18	ST051811Z1	ST051811Z2	BS
18MAY11Z	9	6740-002-0001-SA	MW11-042711	18-MAY-11 19:35:05	ST051811Z1	ST051811Z2	BS
18MAY11Z	10	6740-003-0001-SA	MW10-042711	18-MAY-11 20:29:51	ST051811Z1	ST051811Z2	BS
18MAY11Z	11	6740-004-0001-SA	MW09-042711	18-MAY-11 21:24:37	ST051811Z1	ST051811Z2	BS
18MAY11Z	12	6740-005-0001-SA	MW08-042711	18-MAY-11 22:19:23	ST051811Z1	ST051811Z2	BS
18MAY11Z	13	6740-006-0001-SA	MW12-042711	18-MAY-11 23:14:09	ST051811Z1	ST051811Z2	BS
18MAY11Z	14	SB051811Z2	Solvent Blank	19-MAY-11 00:08:56	ST051811Z1	ST051811Z2	BS
18MAY11Z	15	ST051811Z2	1613 CS3 100511J	19-MAY-11 01:03:43	ST051811Z1	ST051811Z2	BS
18MAY11Z	16	QC051811Z1	NEWQC	19-MAY-11 01:58:32	ST051811Z2	ST051811Z3	BS
18MAY11Z	17	QC051811Z2	SSQC	19-MAY-11 02:53:20	ST051811Z2	ST051811Z3	BS
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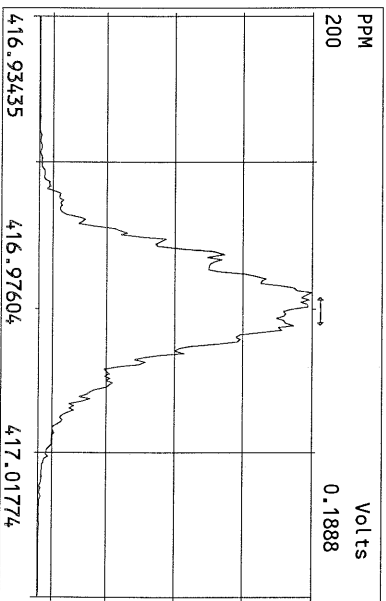
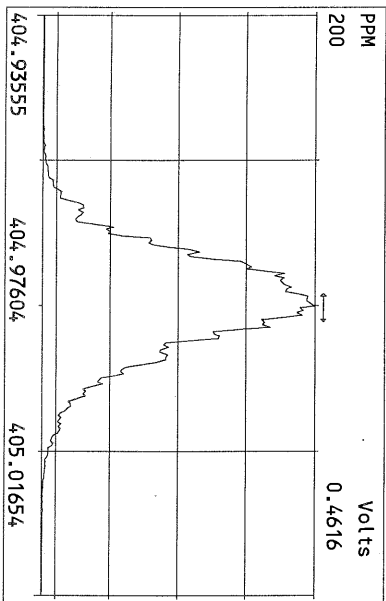
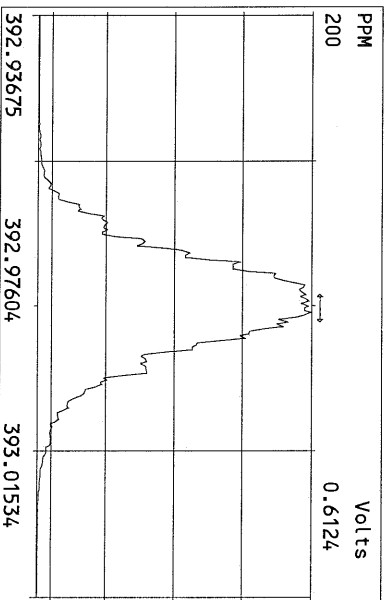
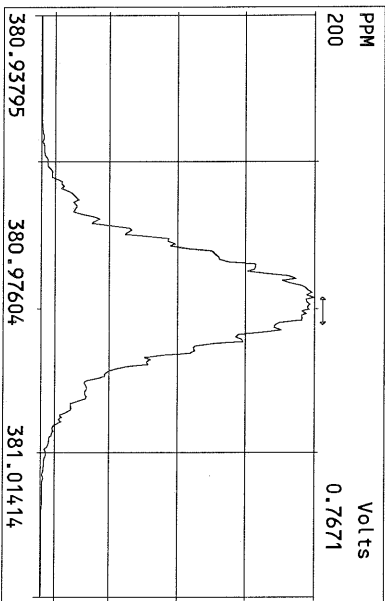
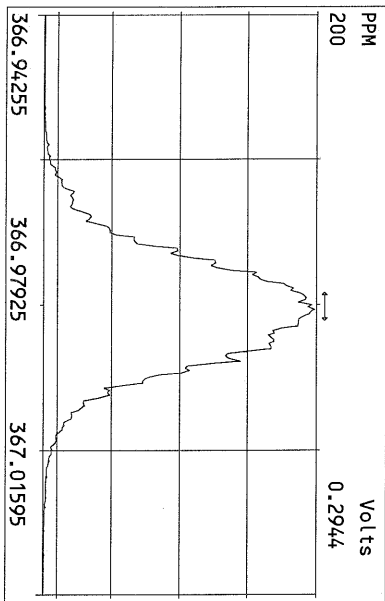
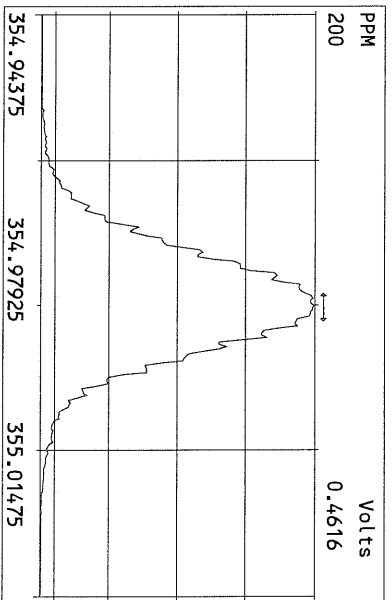
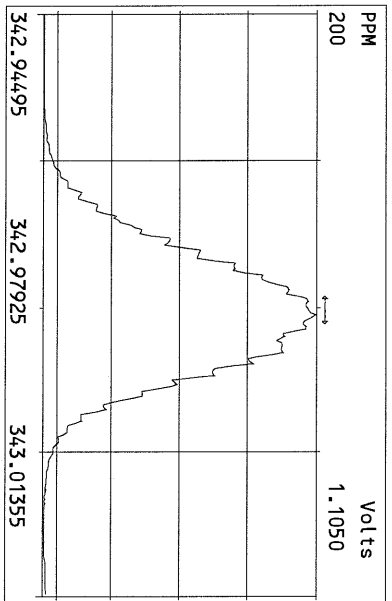
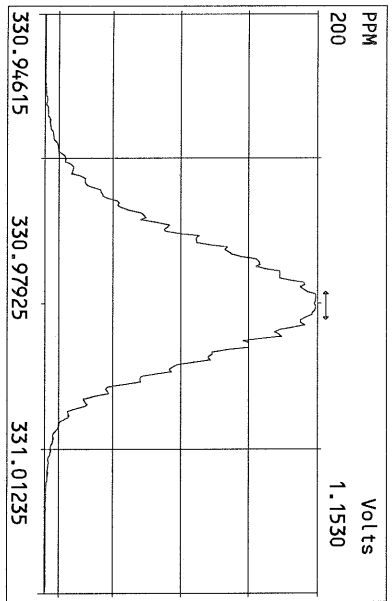
& 5/19/11

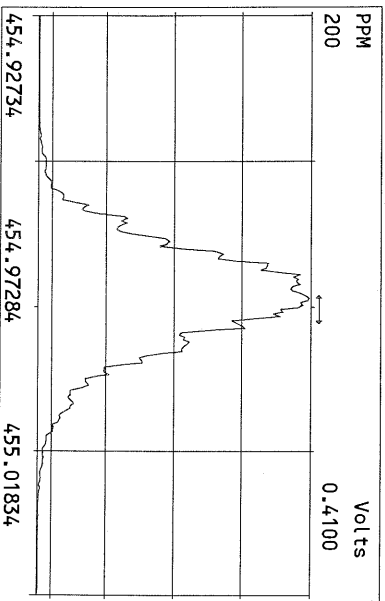
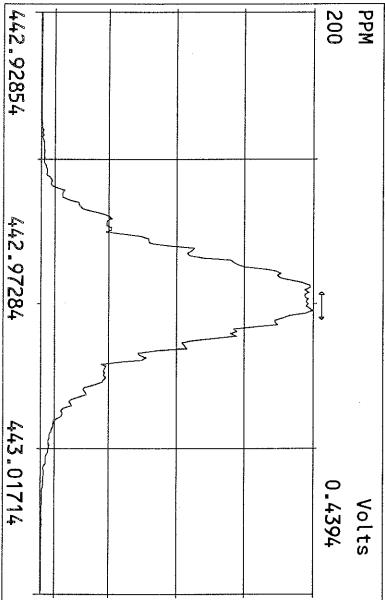
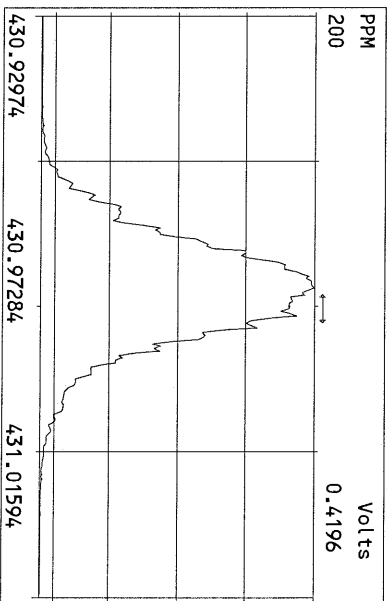
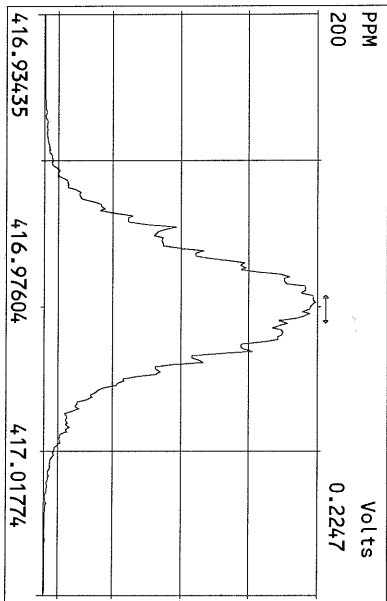
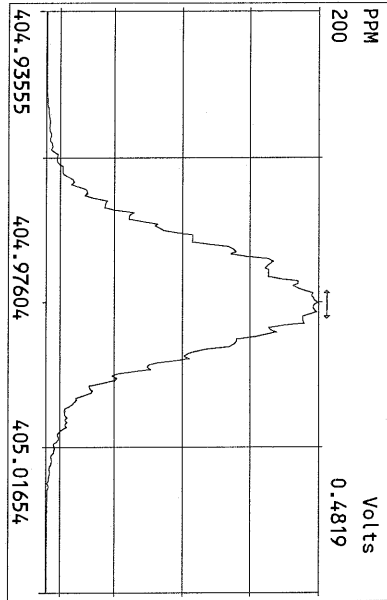
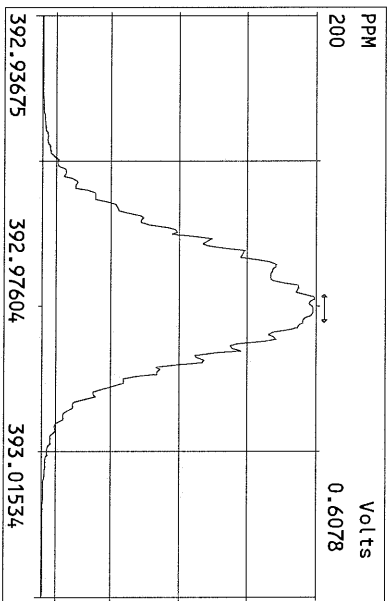
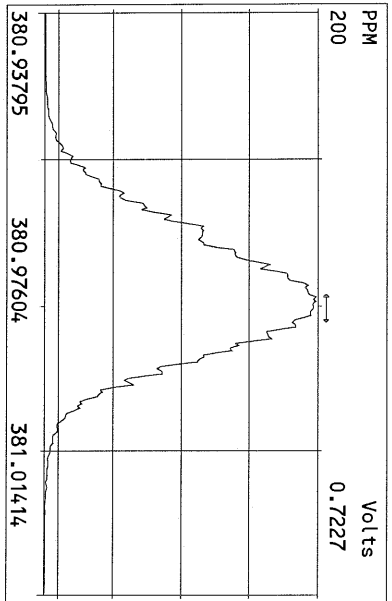
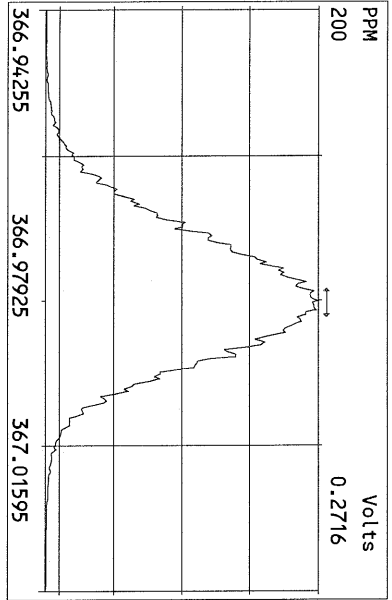
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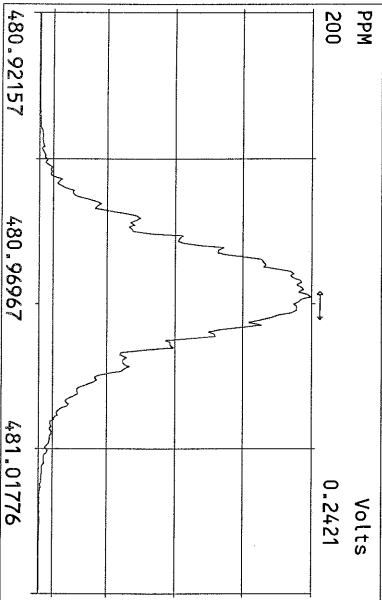
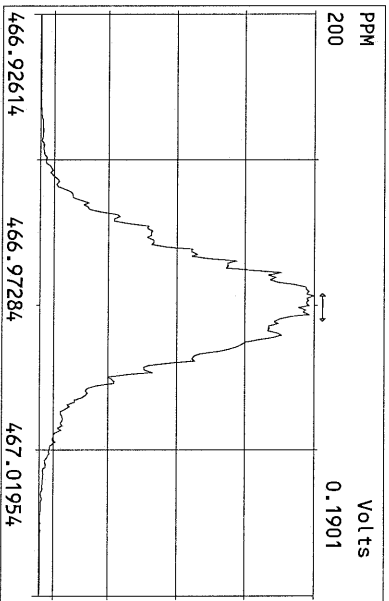
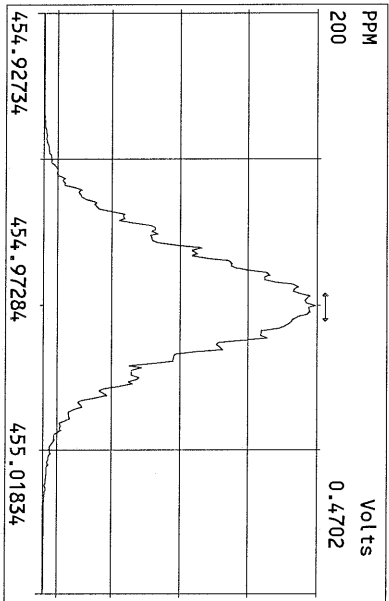
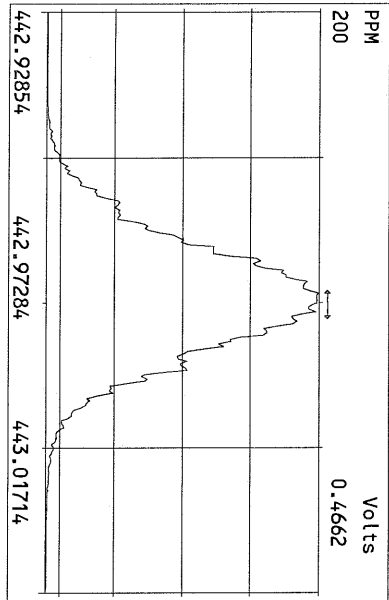
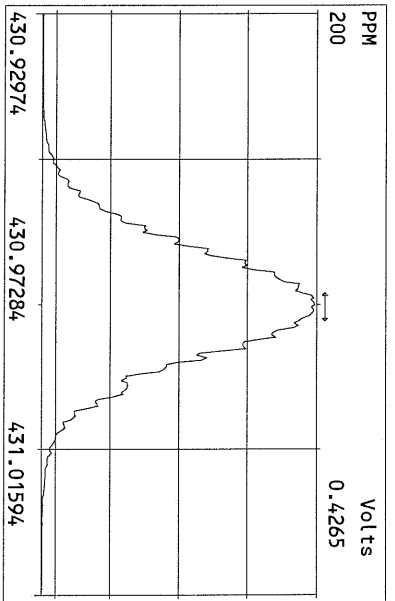
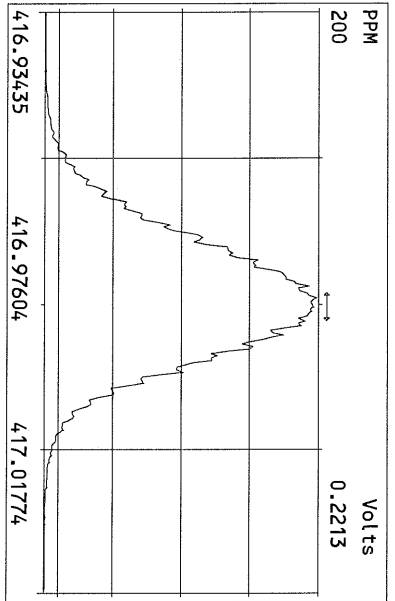
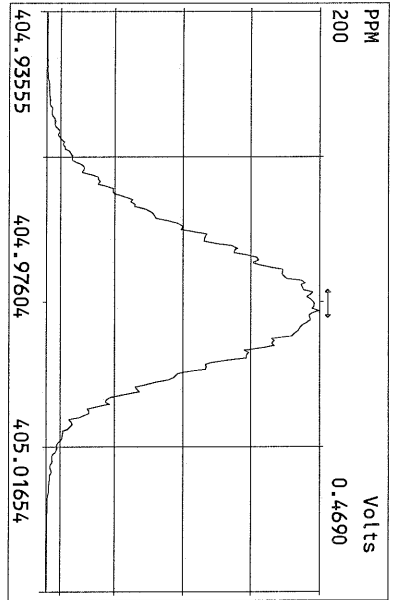
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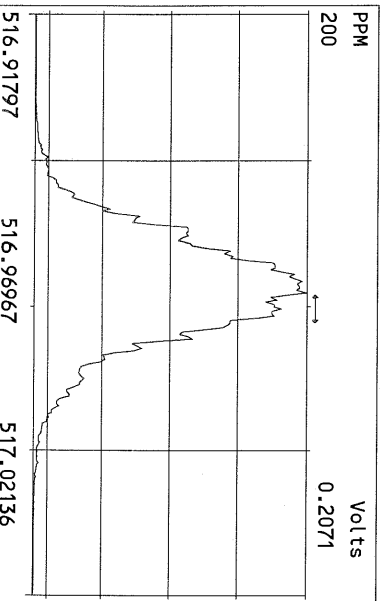
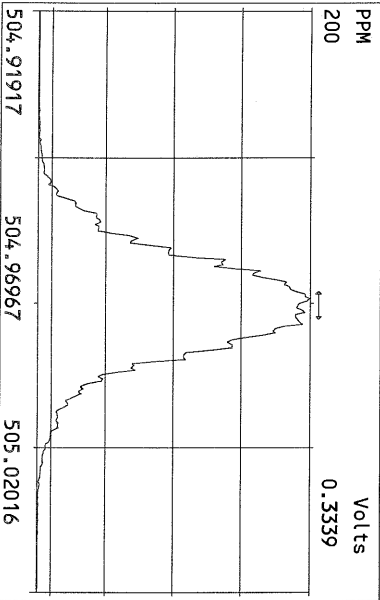
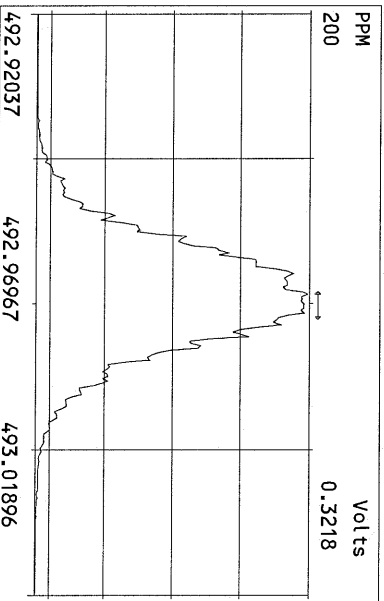
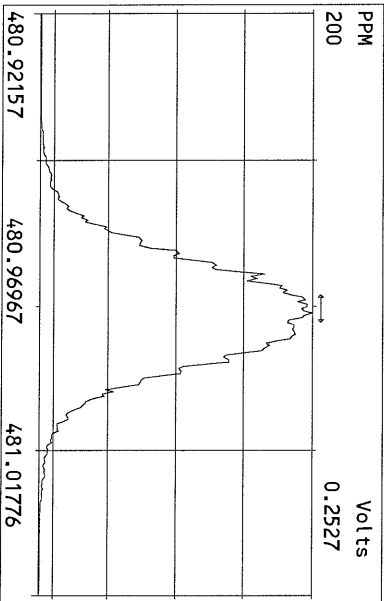
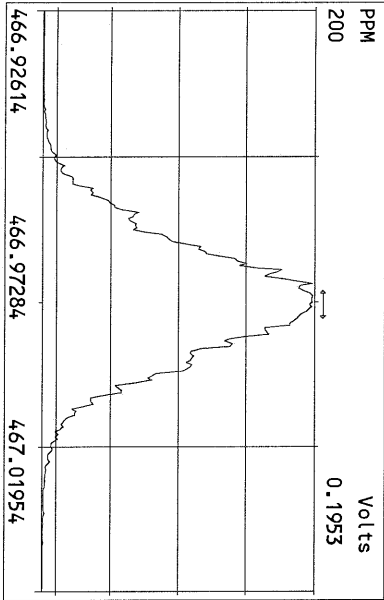
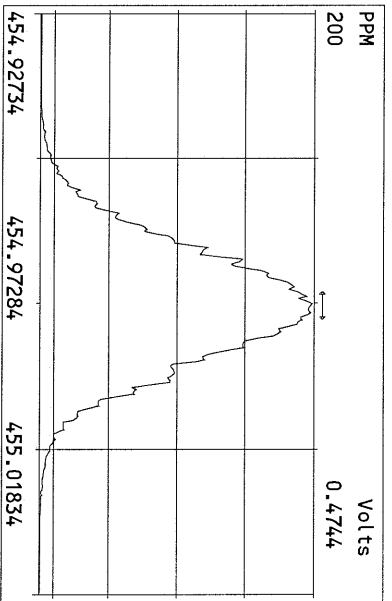
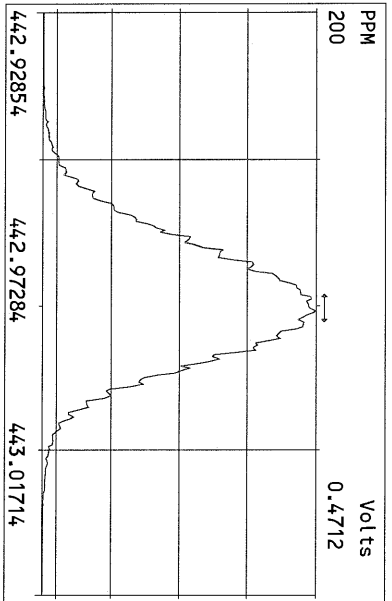
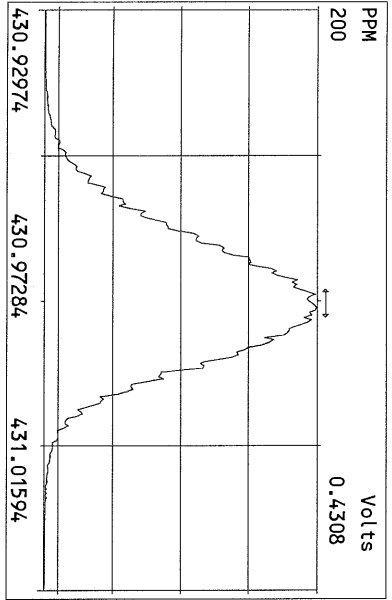
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Experiment: PCDD Function: 1 Reference: PFK



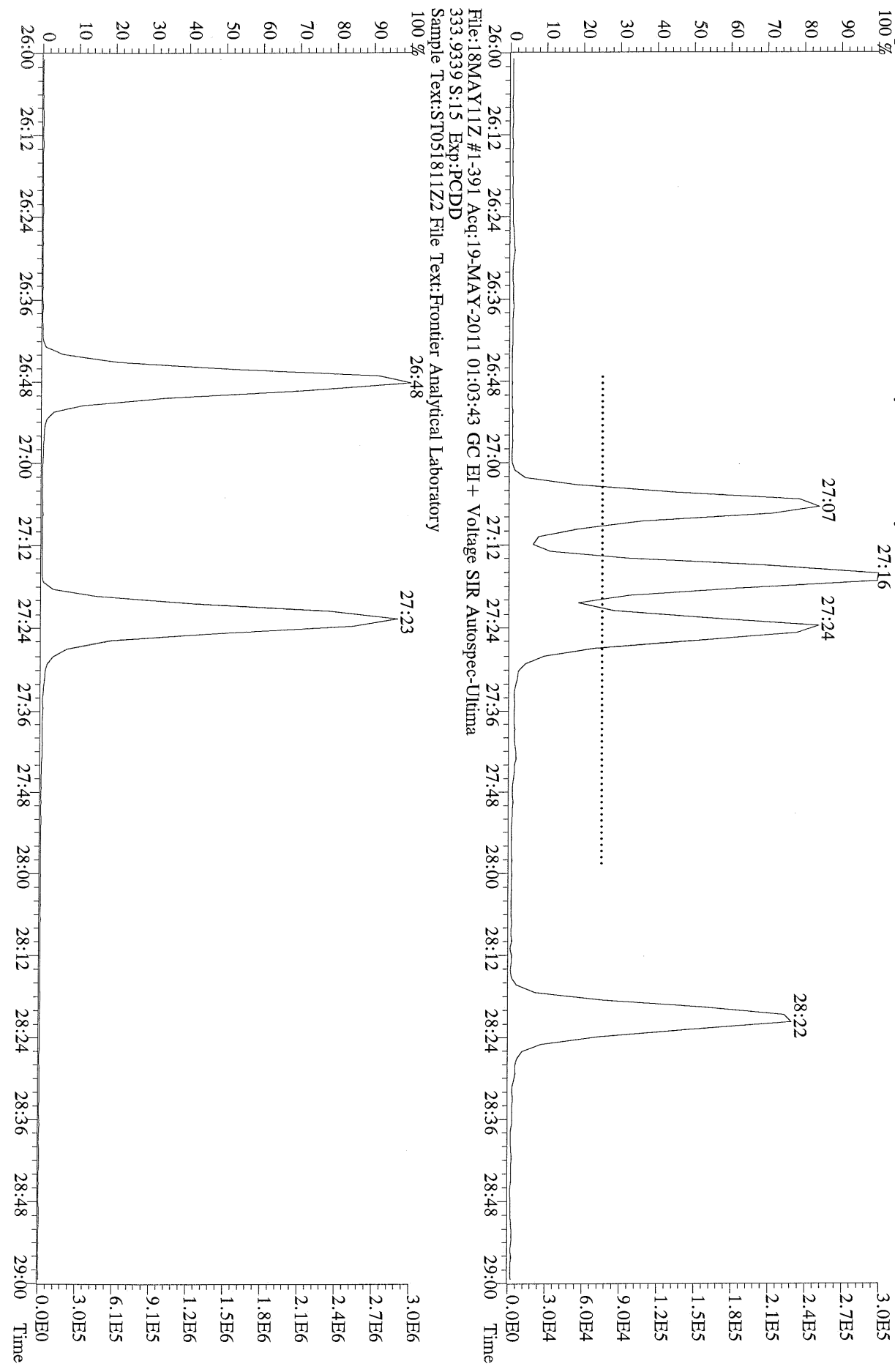




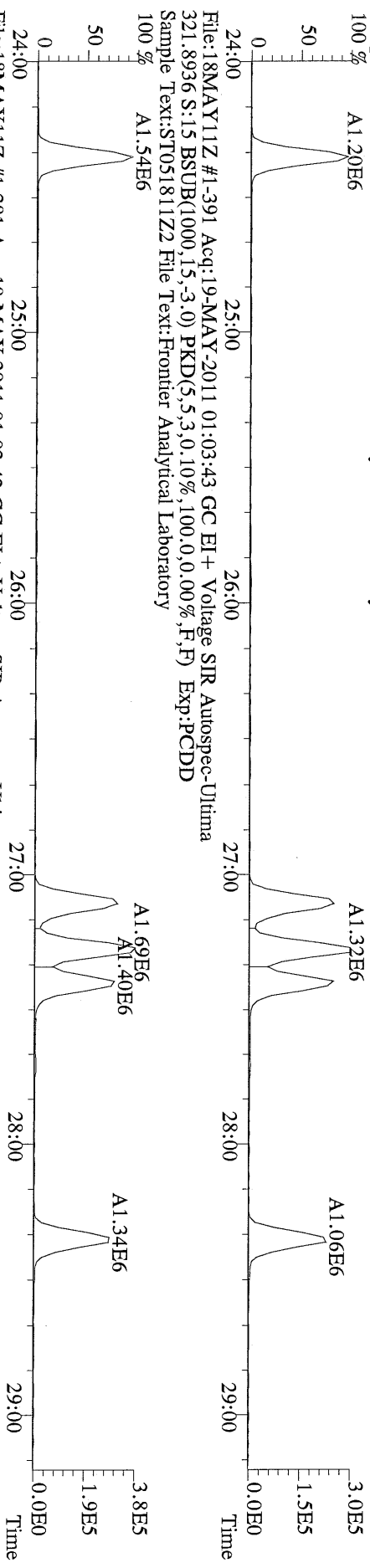




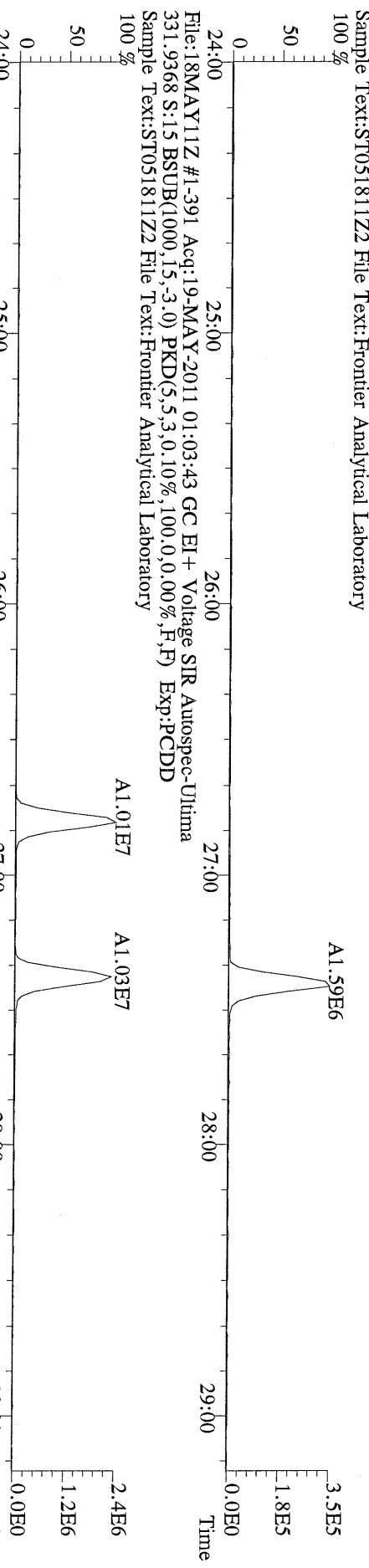
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319.8965 S:15 Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



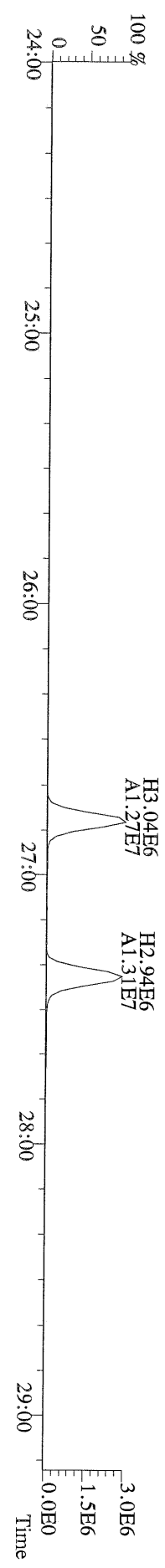
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319.8965 S:1.5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



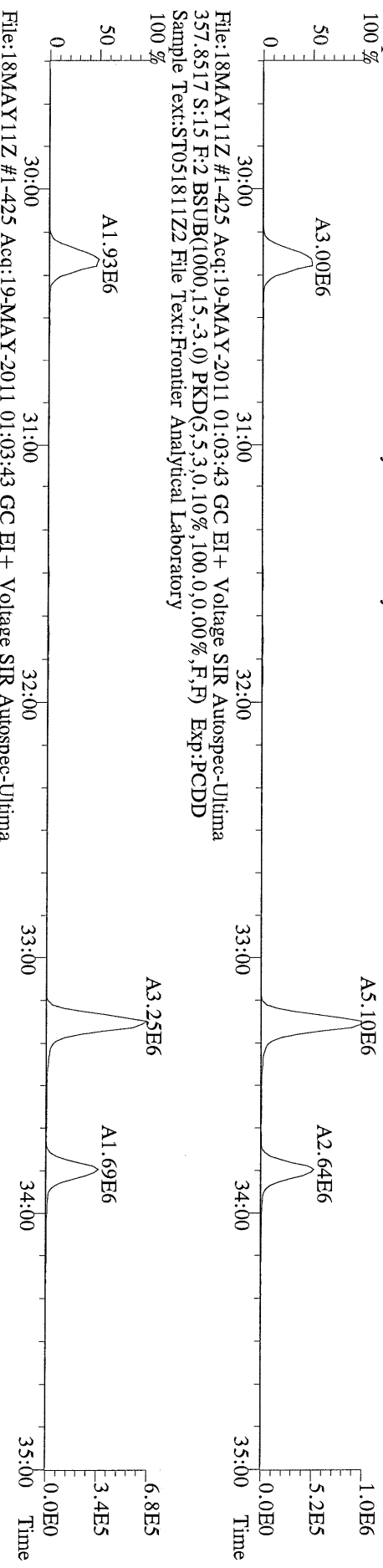
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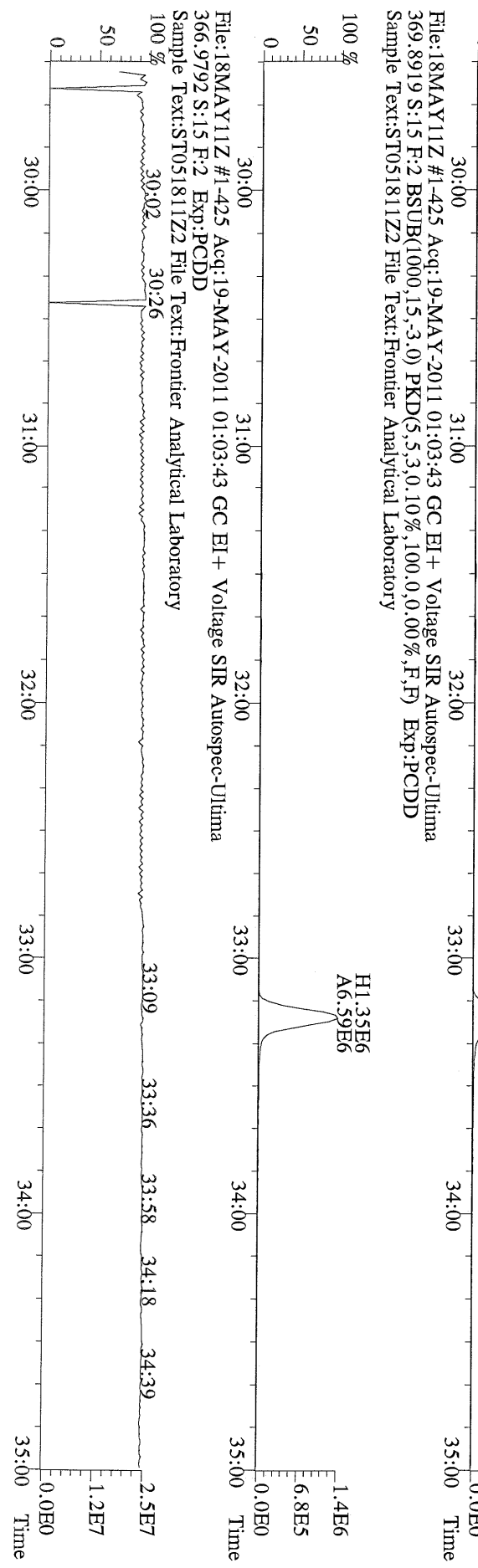
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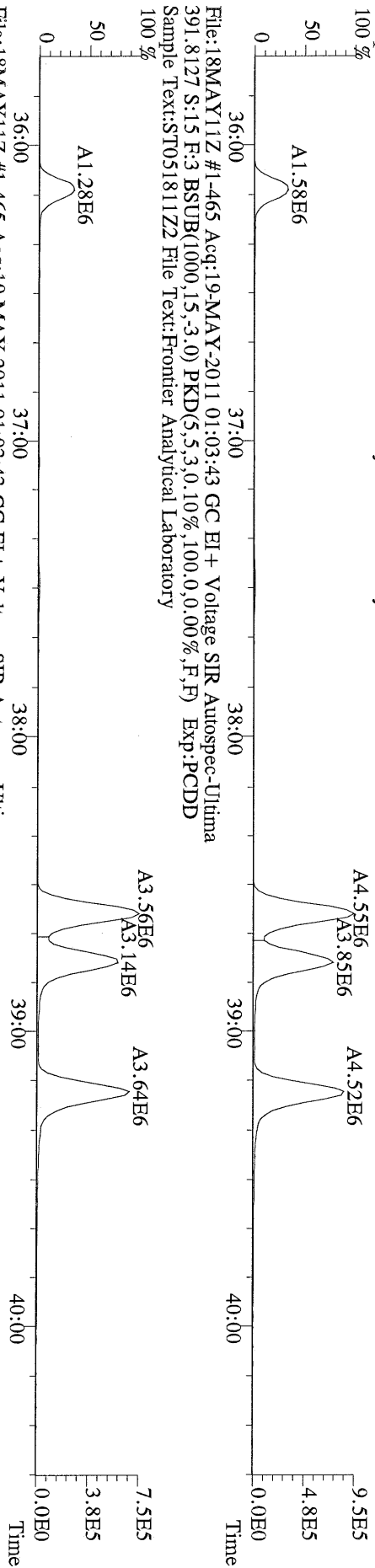
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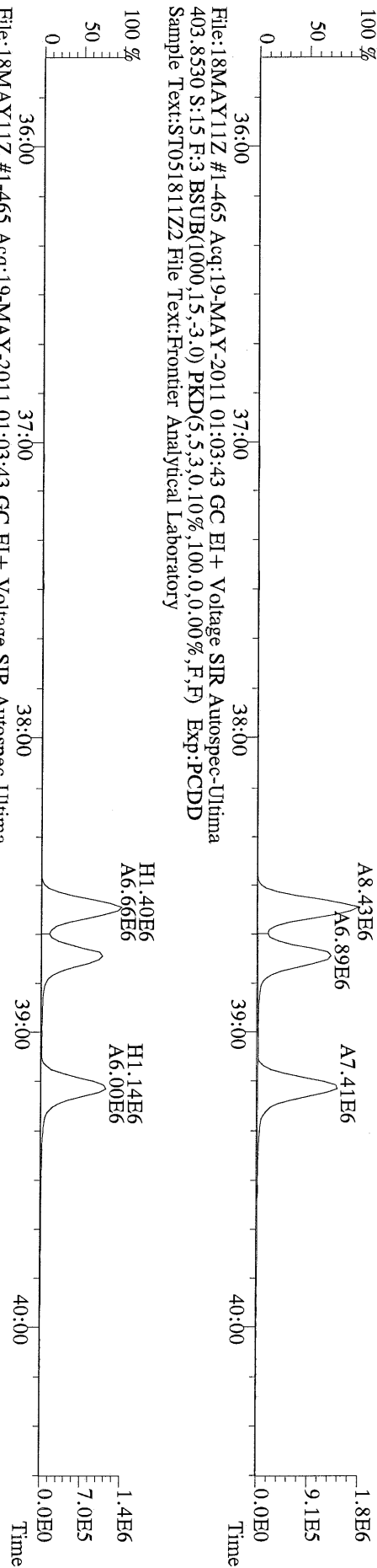
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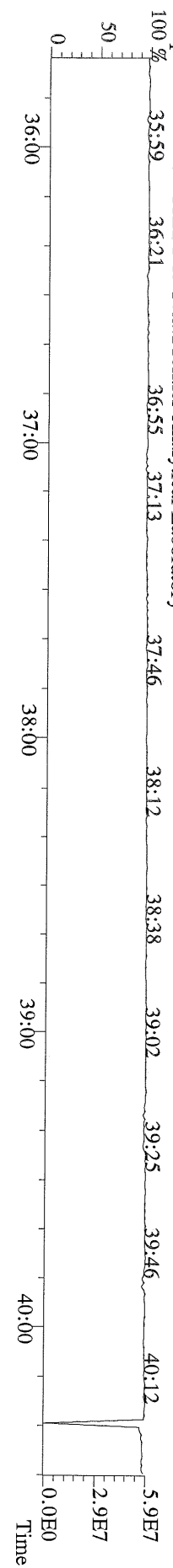
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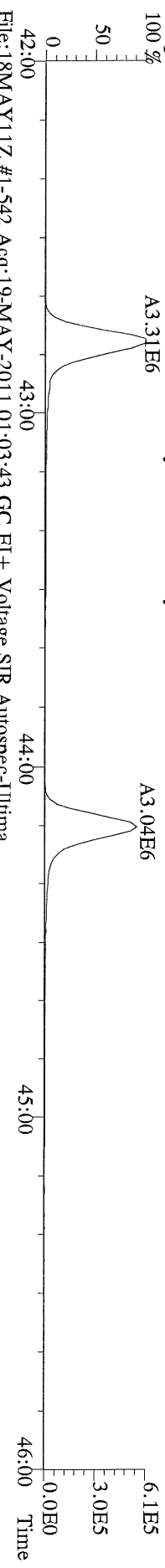
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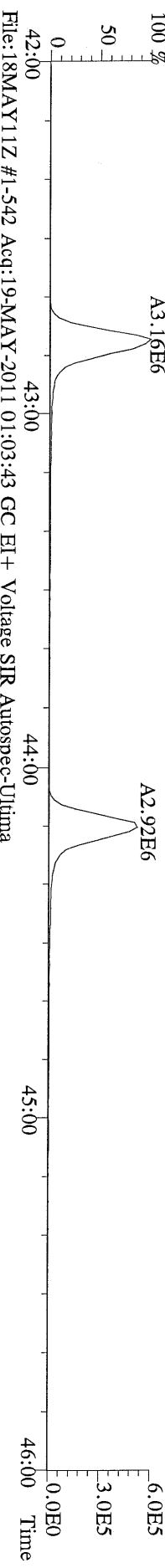
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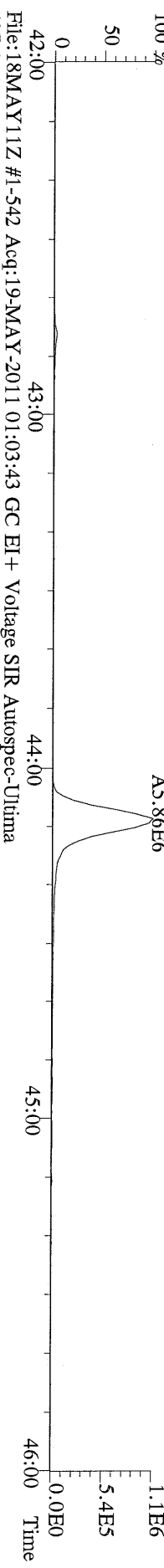
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423.7767 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



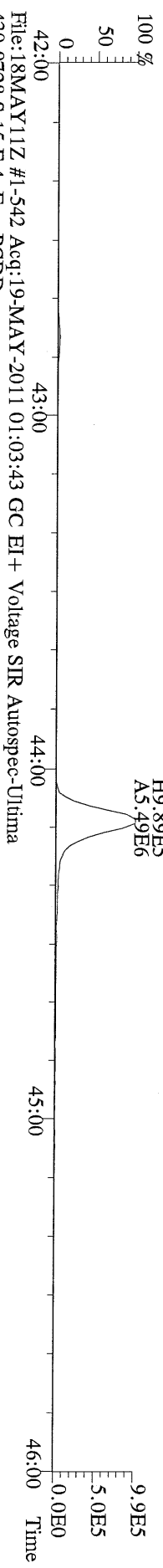
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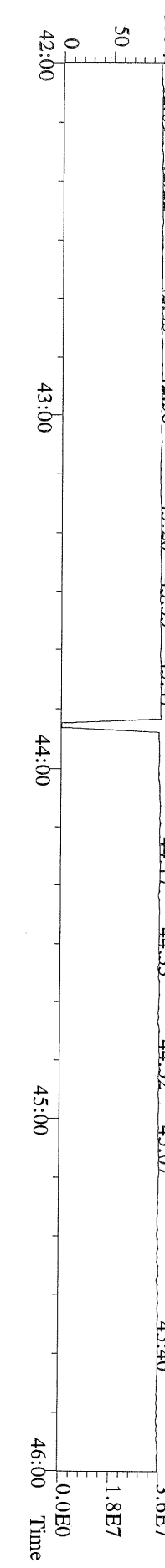
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435.8169 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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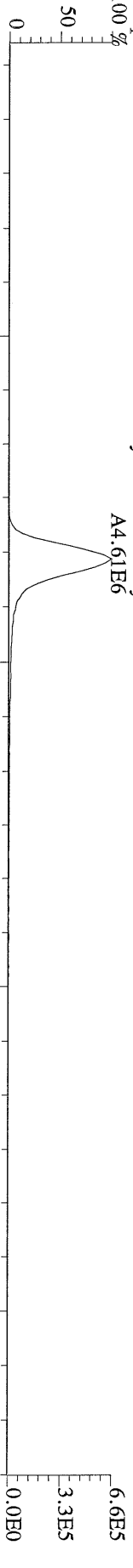
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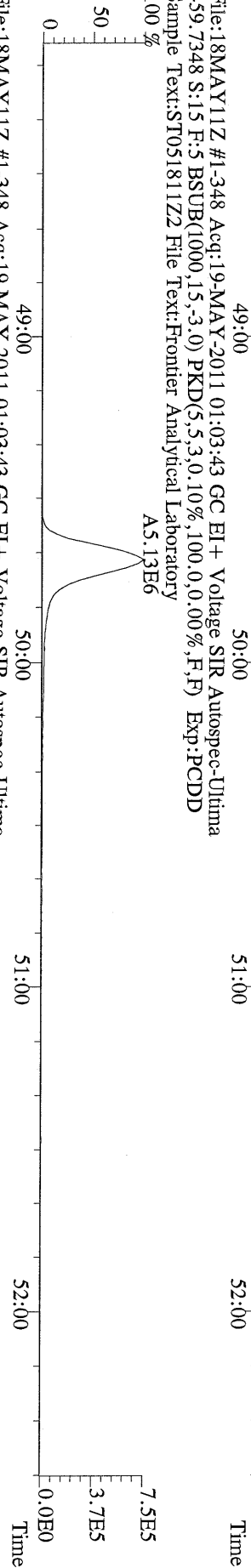
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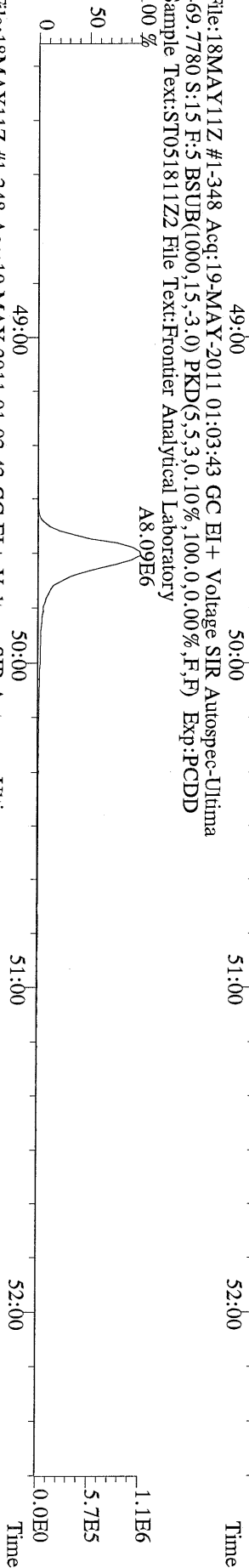
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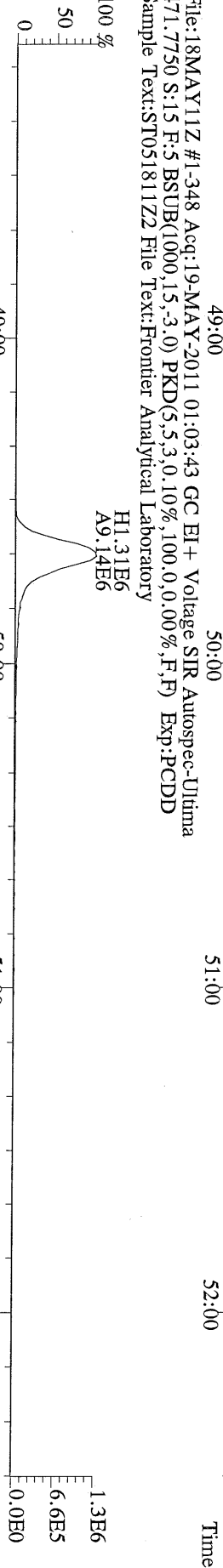
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Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



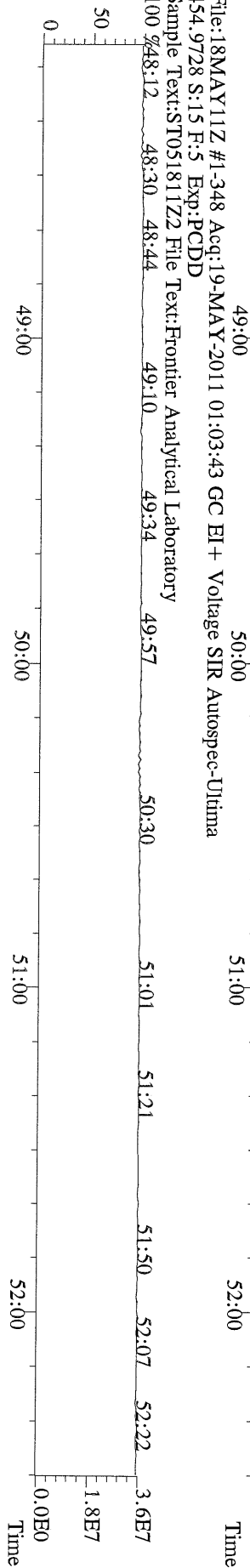
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469.7780 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



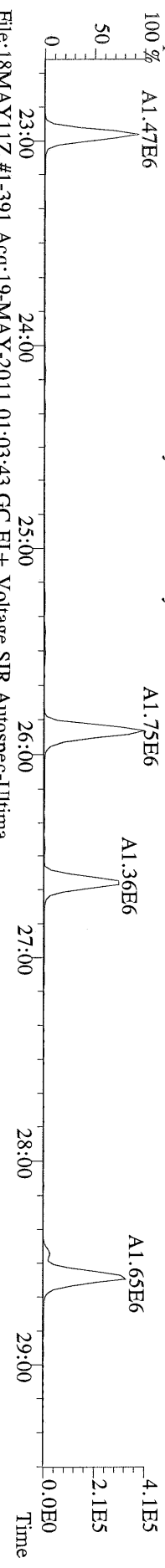
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471.7750 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



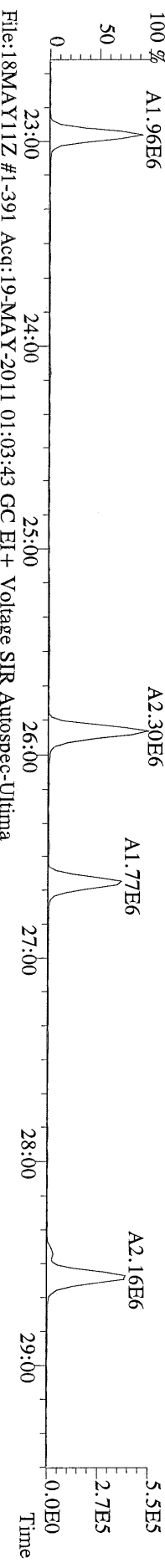
File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:15 F:5 Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



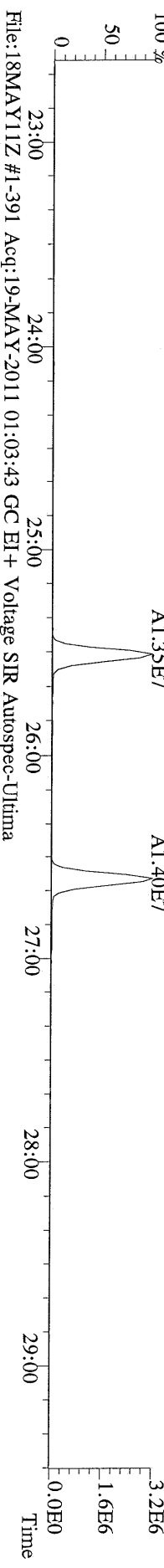
File:18MAY11Z #-1-391 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



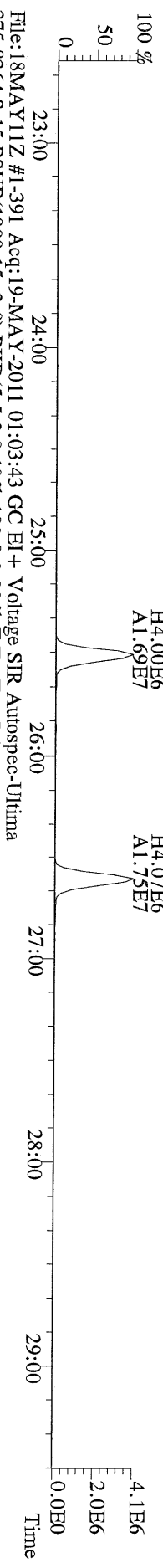
File:18MAY11Z #-1-391 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



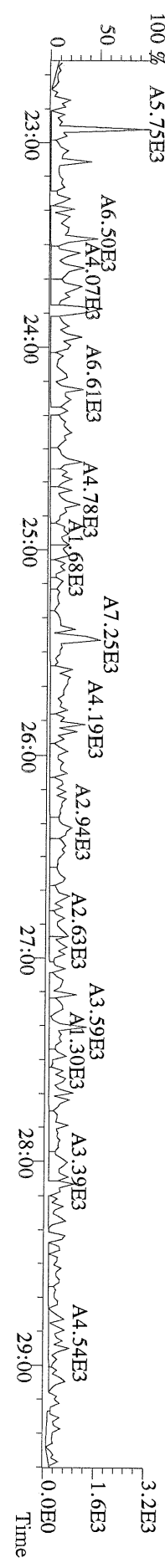
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 315.9419 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



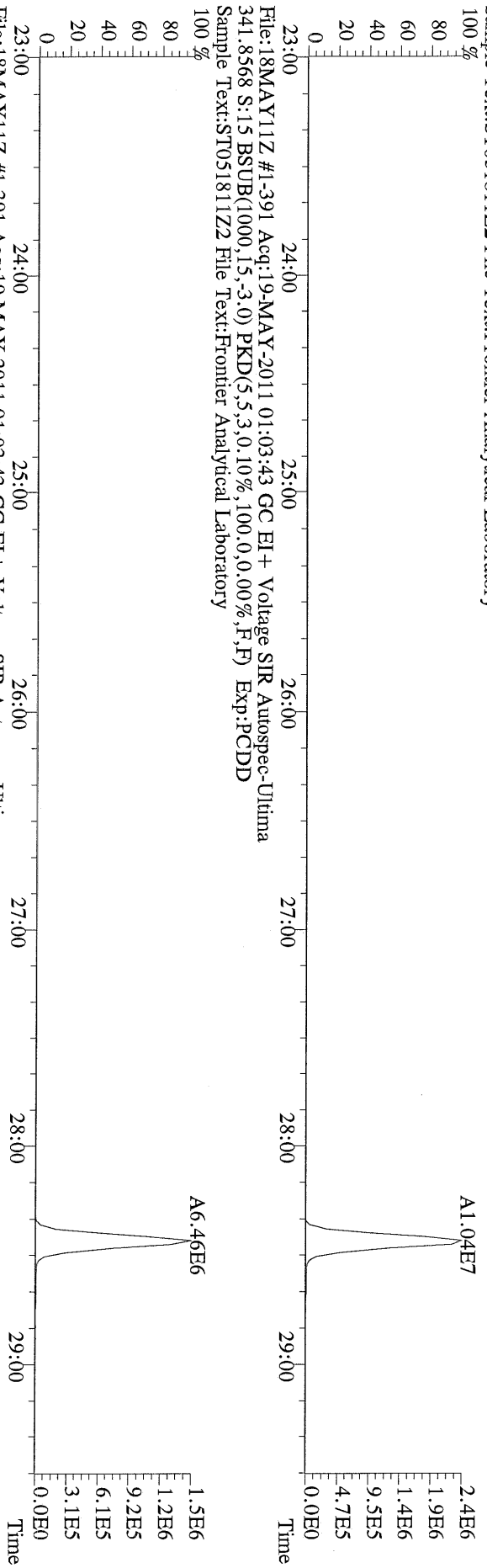
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 317.9389 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



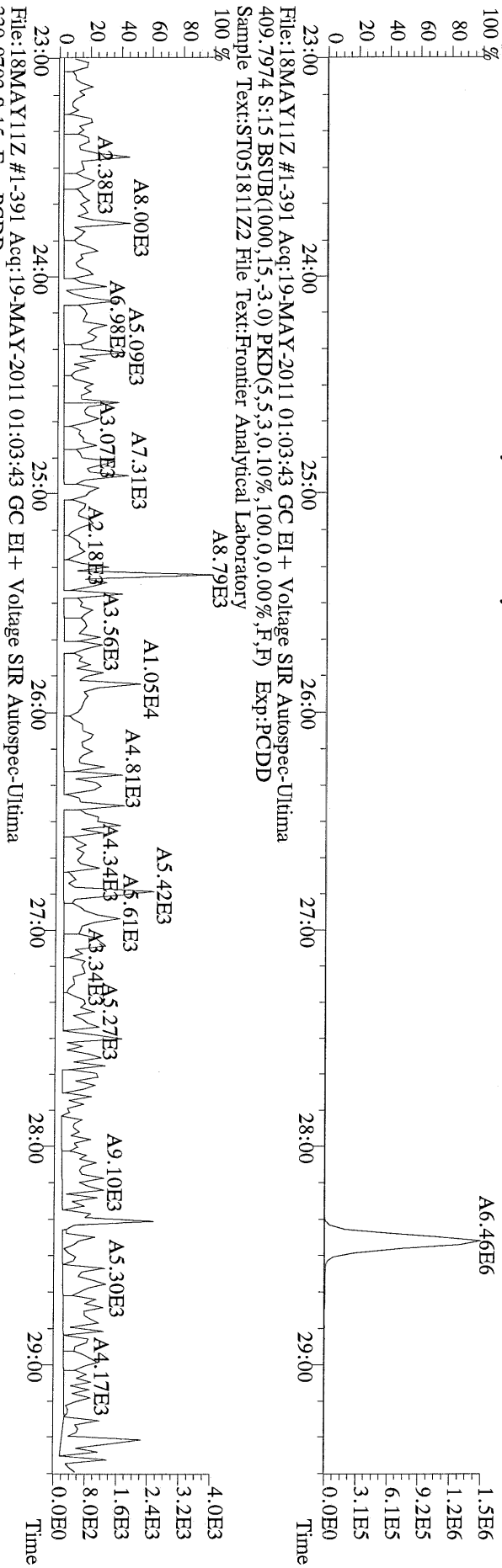
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 375.8364 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



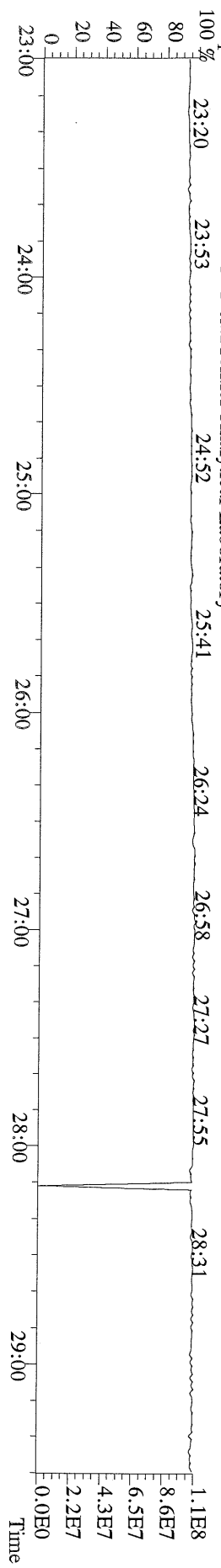
File:18MAY11Z #1-391 Acq:19-MAY-2011 01:03:43 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



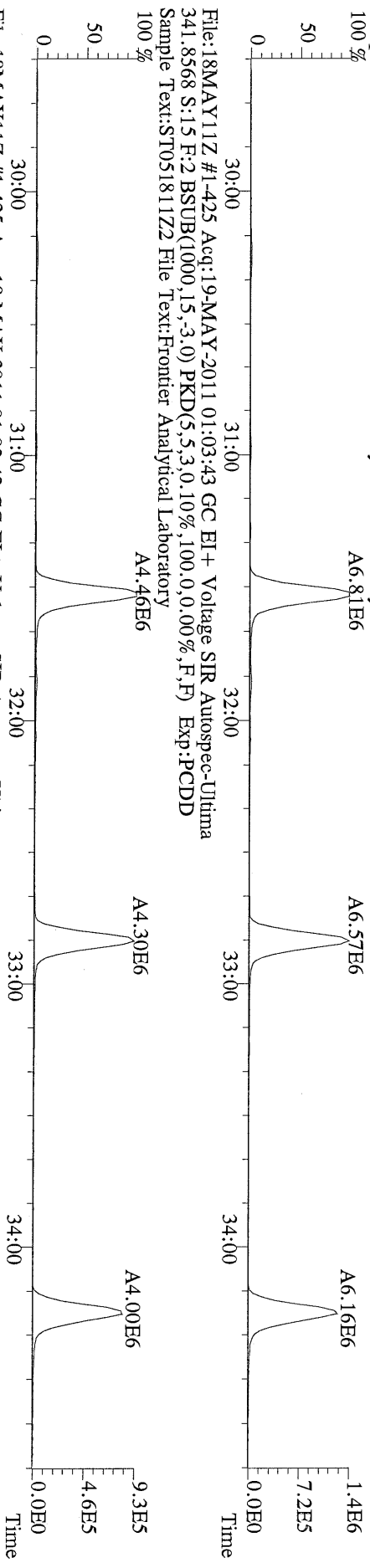
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 341.8568 S:15 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-391 Acq:19-MAY-2011 01:03:43 GC EI + Voltage SIR Autospec-Ultima
 330.9792 S:15 Exp:PCDD
 Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



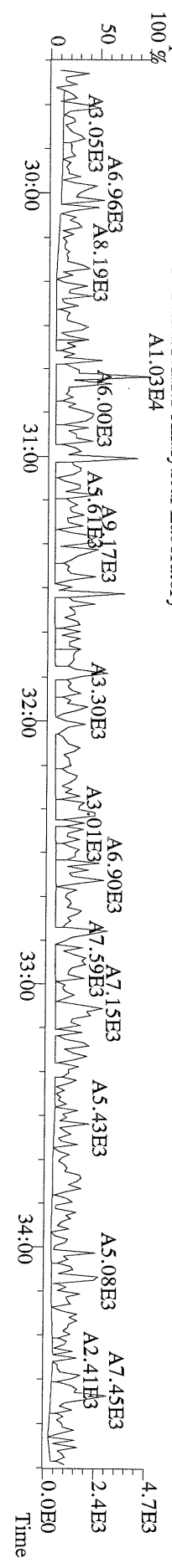
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339.8597 S:15 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



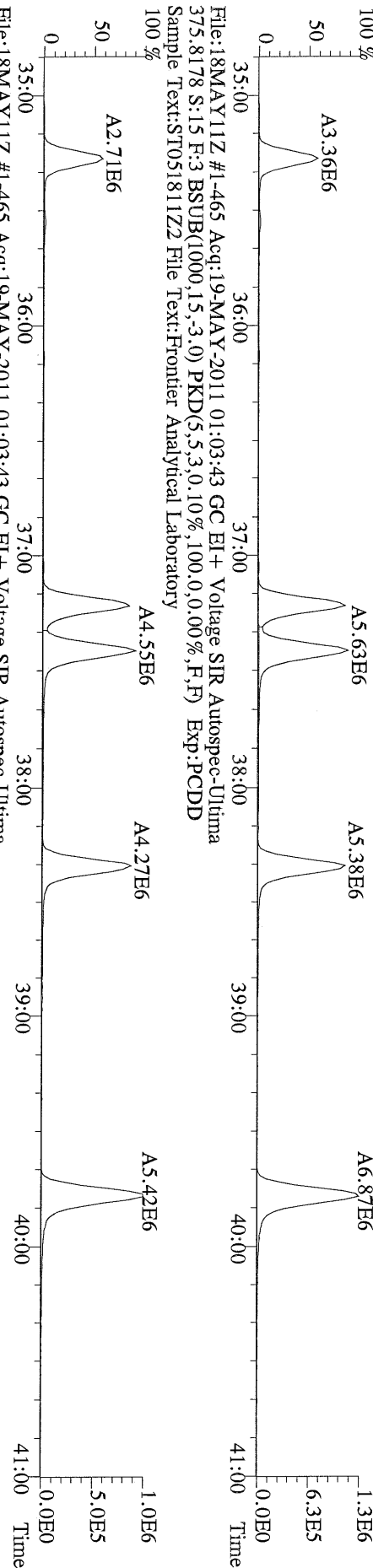
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351.9000 S:15 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



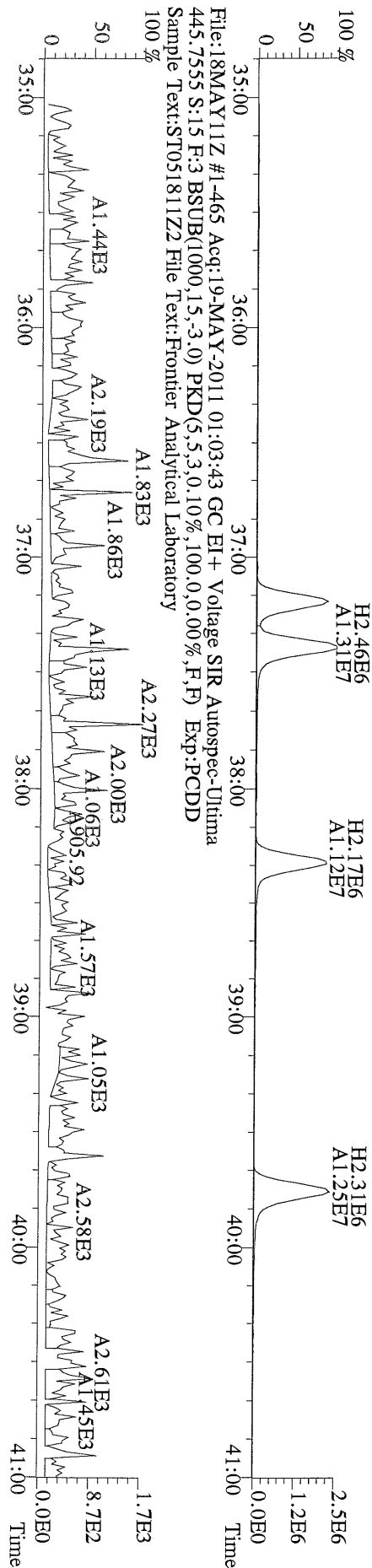
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409.7974 S:15 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



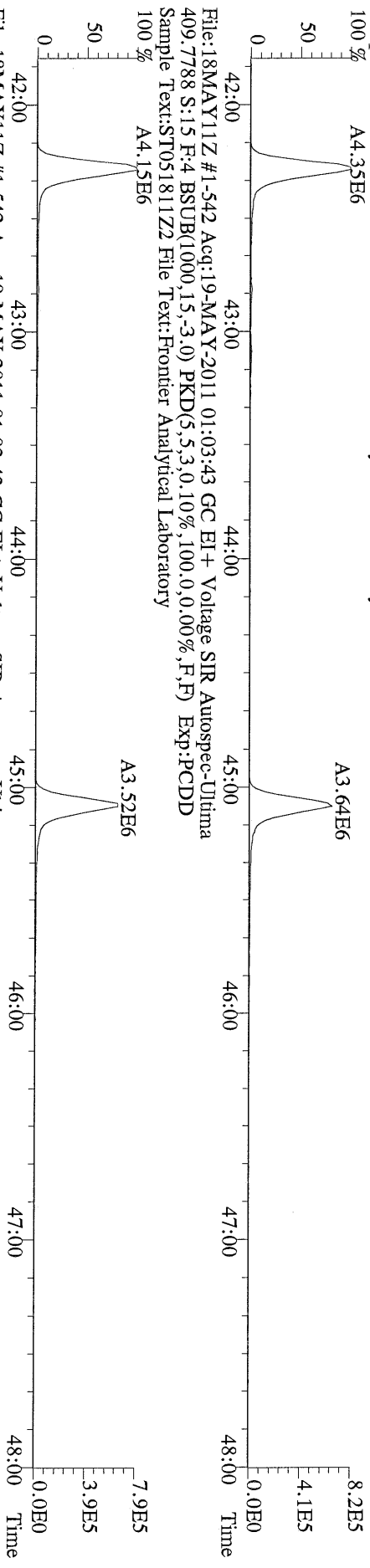
File:18MAY11Z #1-465 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:15 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp.:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



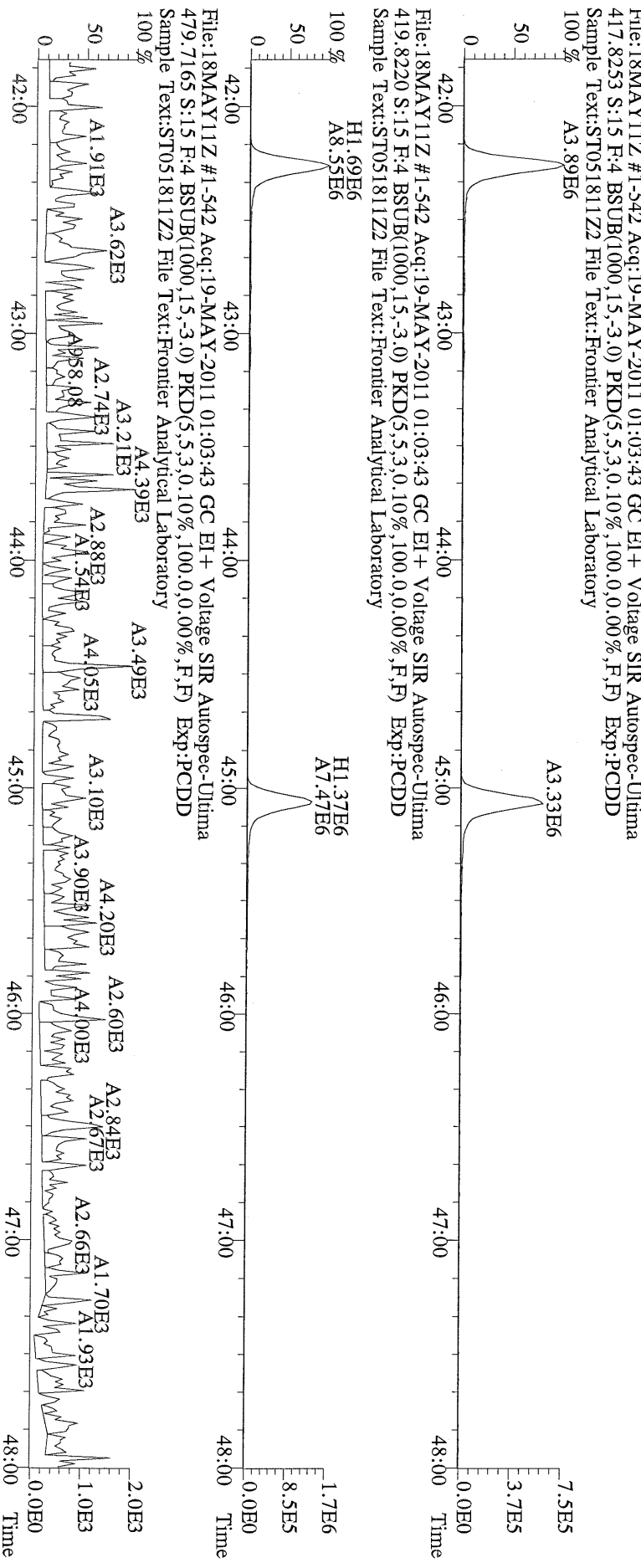
File:18MAY11Z #1-465 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:15 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp.:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



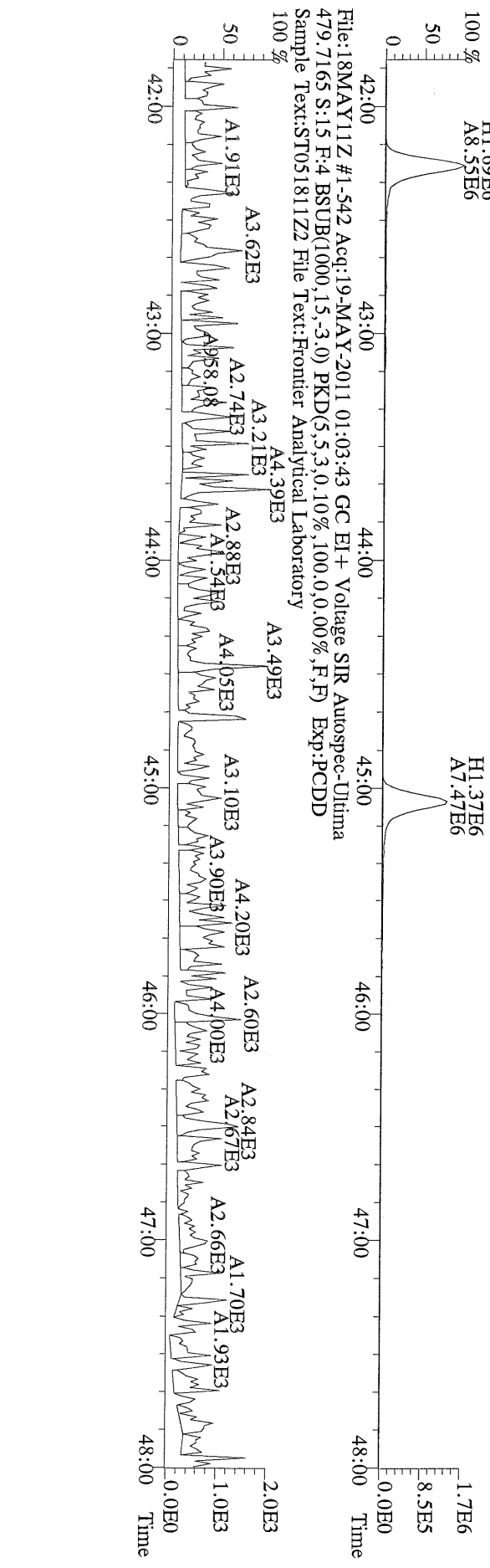
File: 18MAY11Z #1-542 Acq: 19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



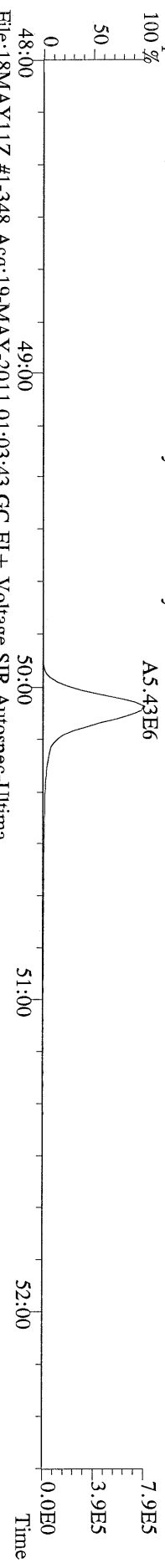
File: 18MAY11Z #1-542 Acq: 19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



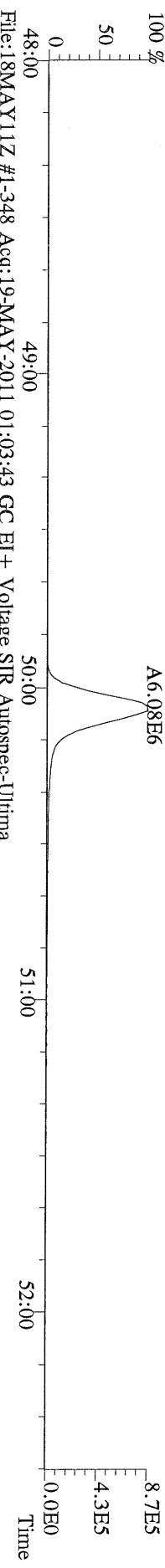
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479.7165 S:15 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



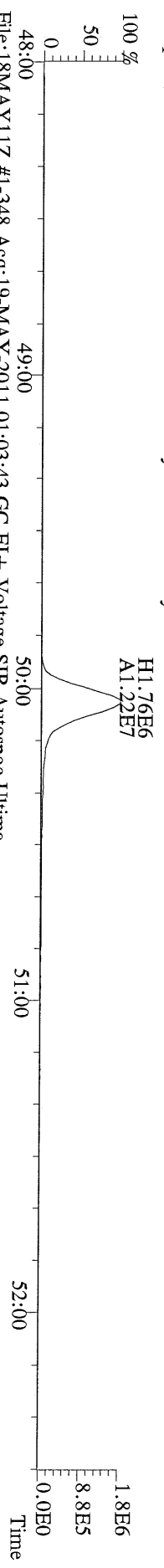
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443.7398 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory



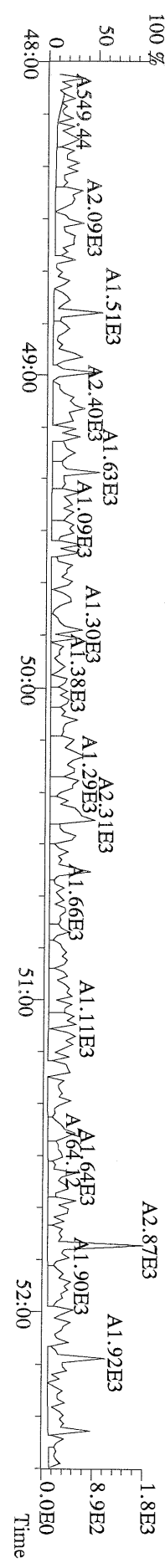
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453.7831 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory

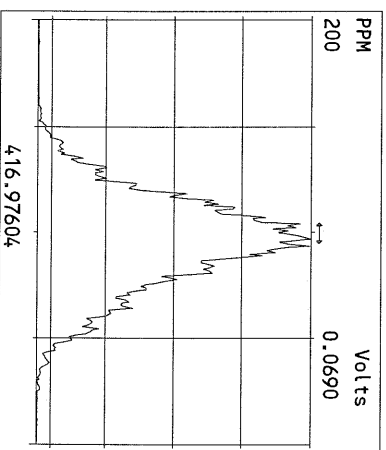
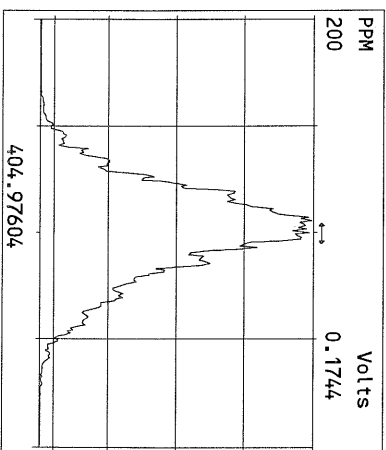
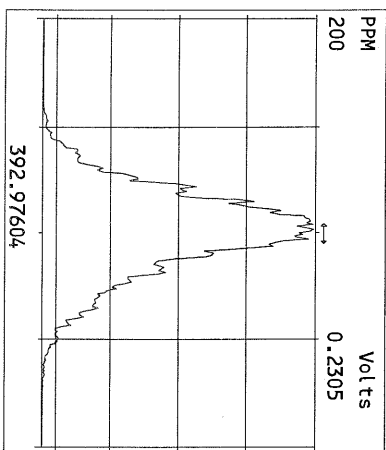
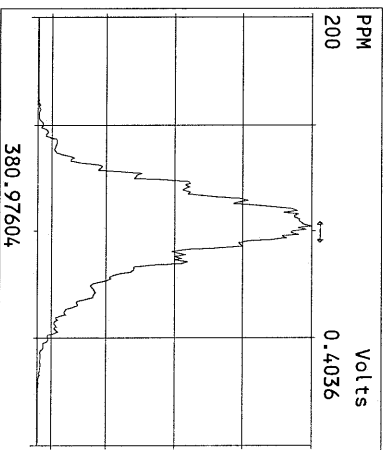
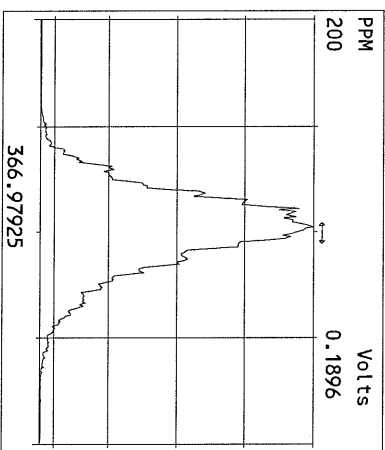
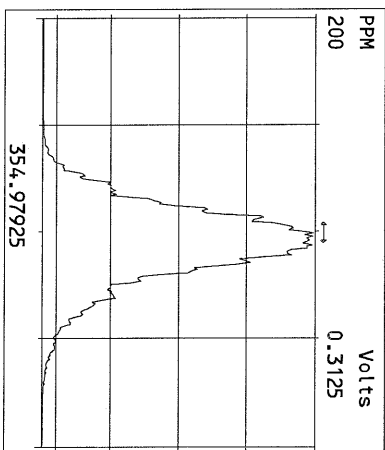
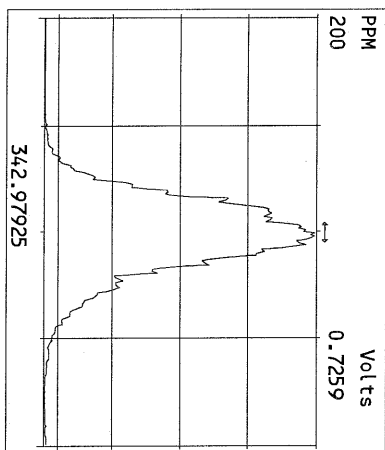
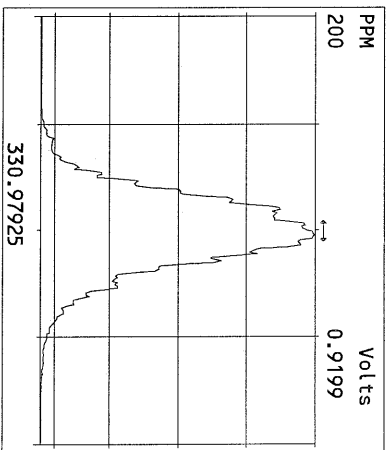
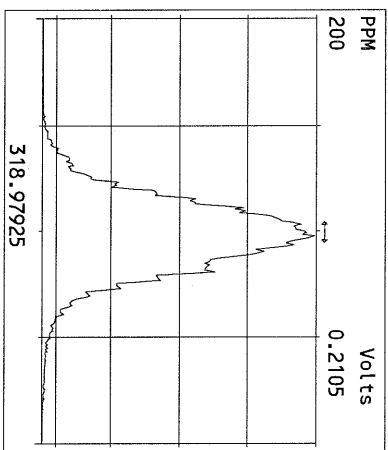
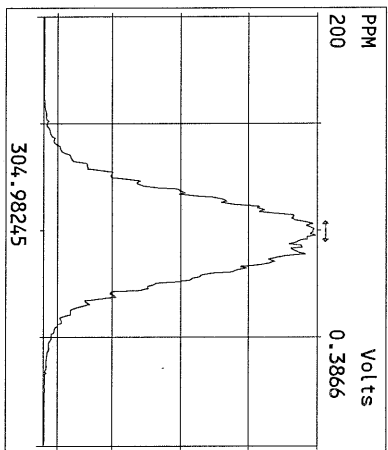
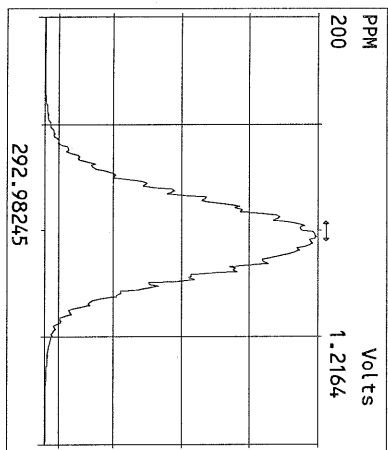


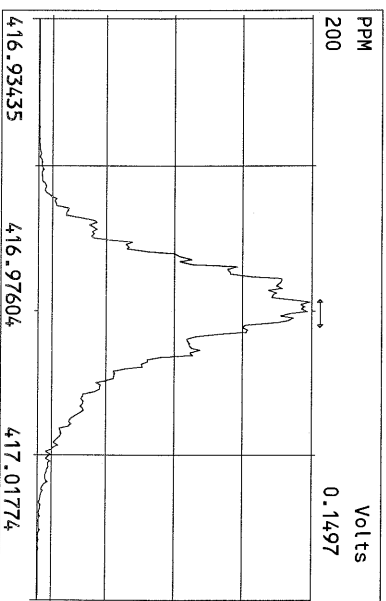
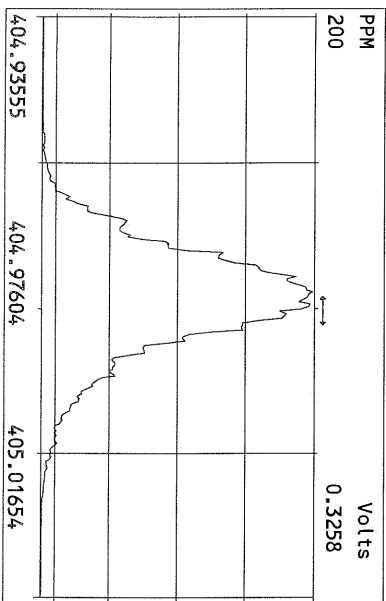
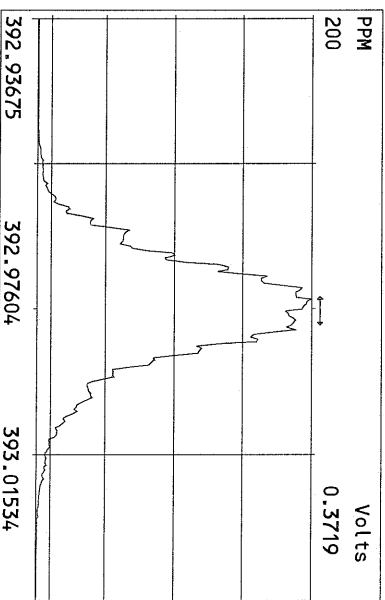
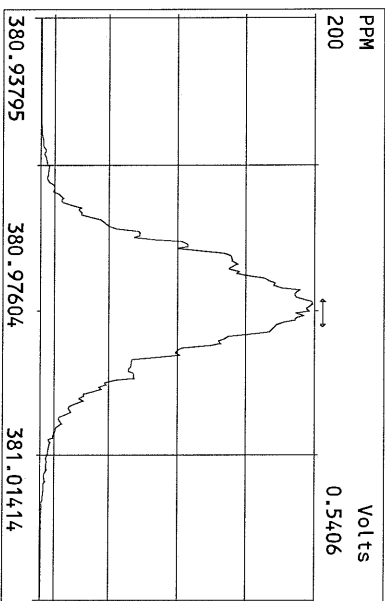
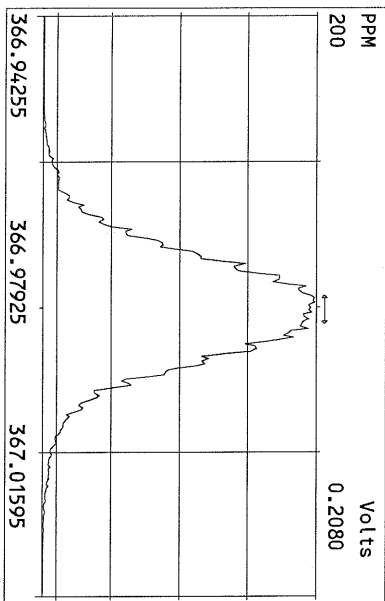
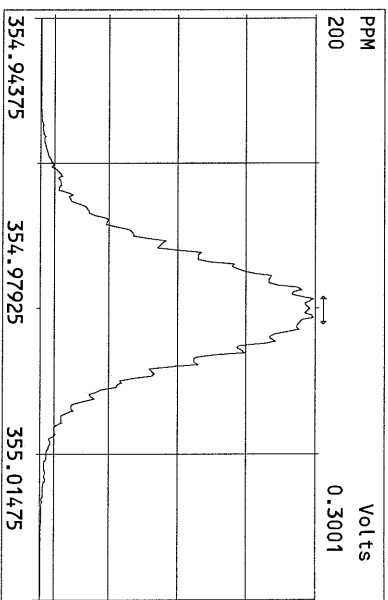
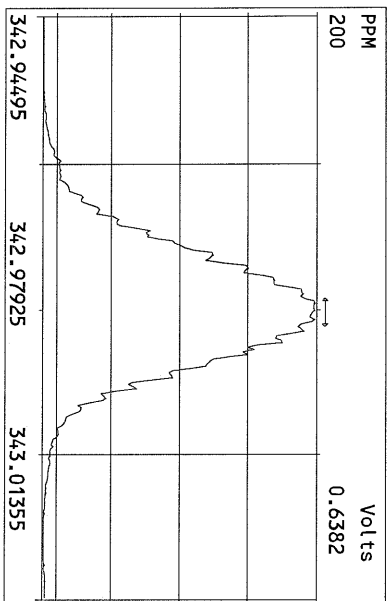
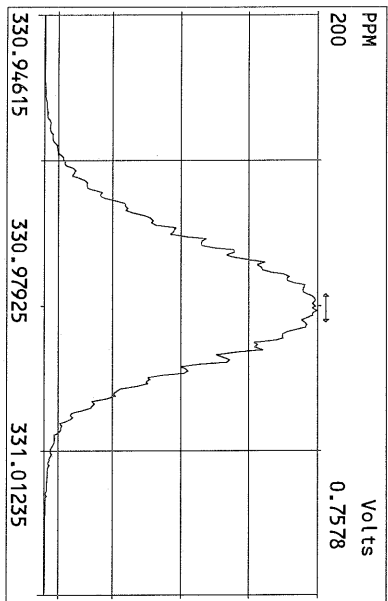
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455.7801 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory

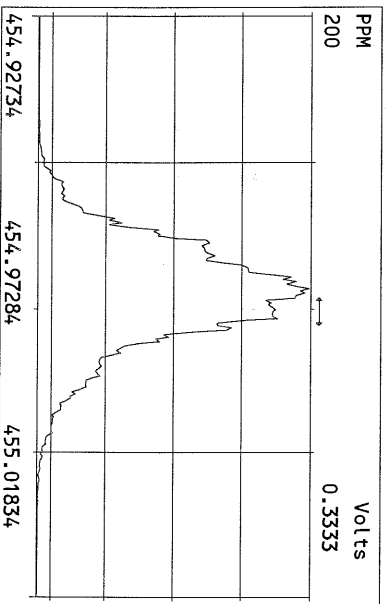
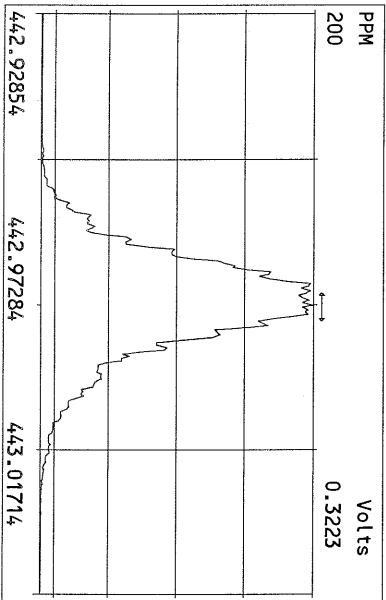
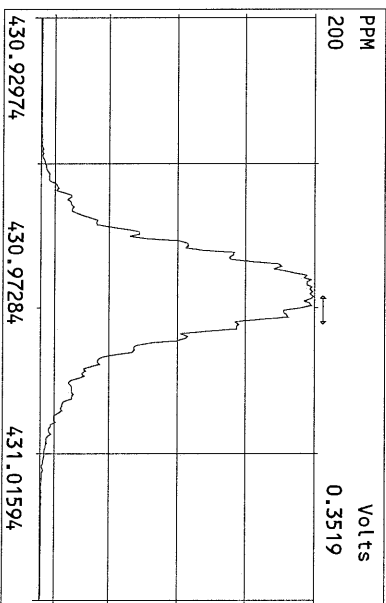
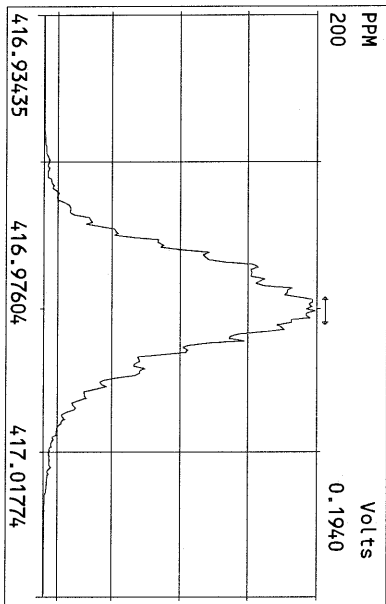
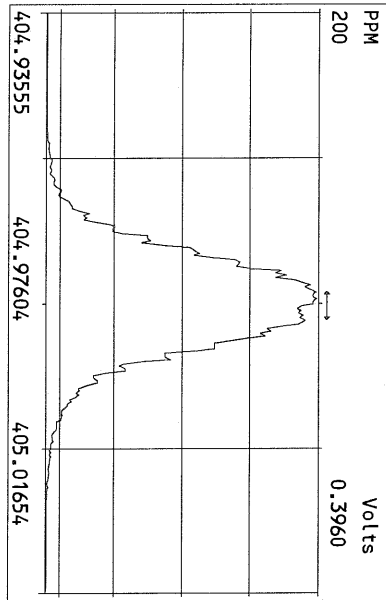
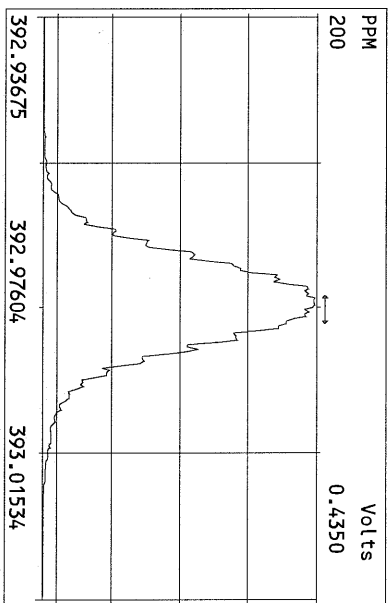
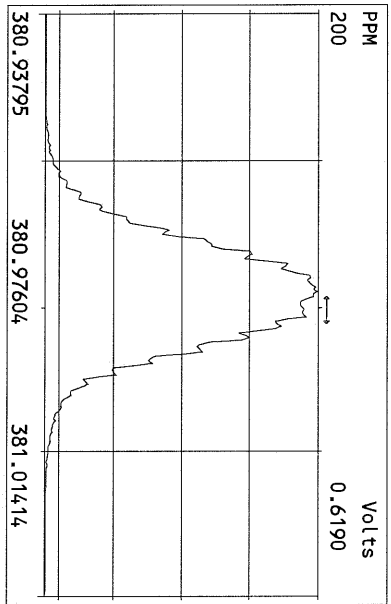
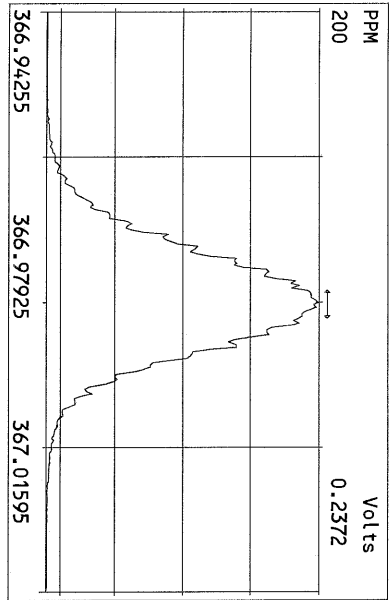


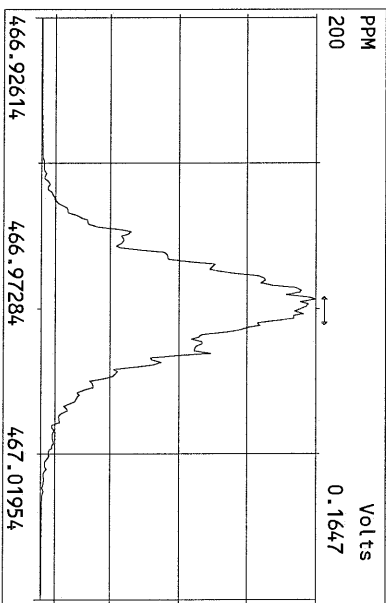
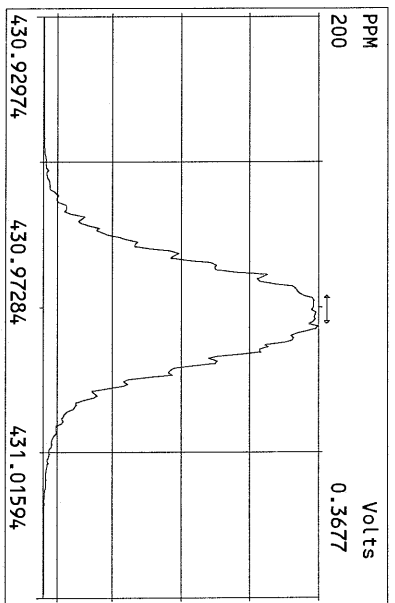
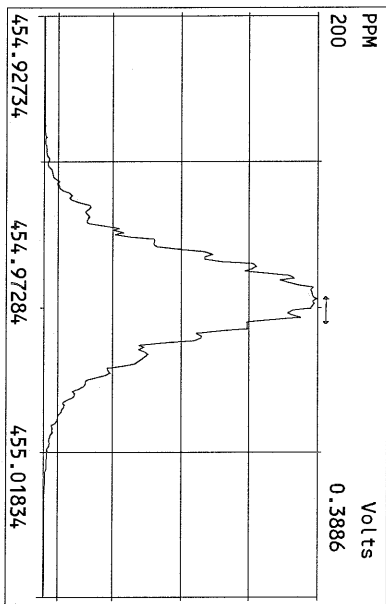
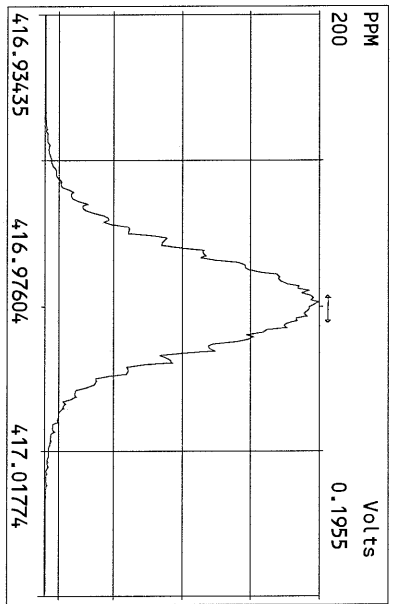
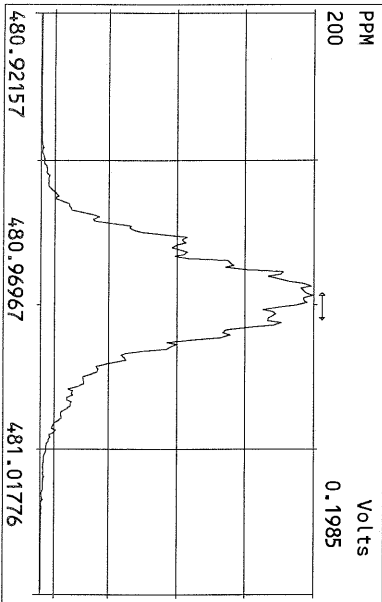
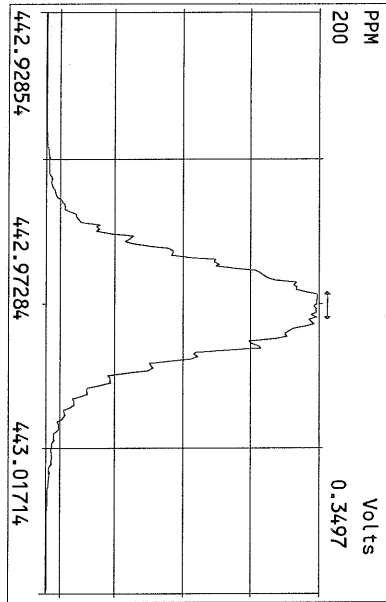
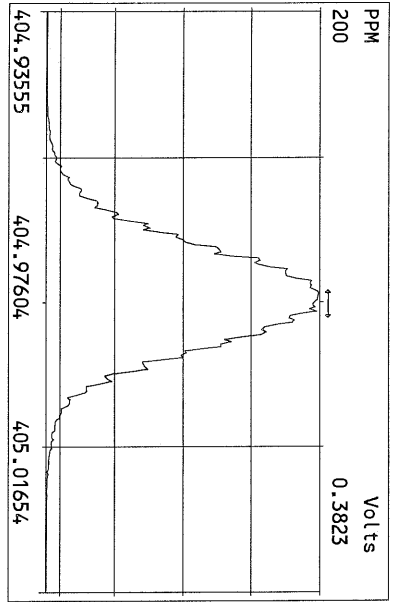
File:18MAY11Z #1-348 Acq:19-MAY-2011 01:03:43 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:15 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051811Z2 File Text:Frontier Analytical Laboratory

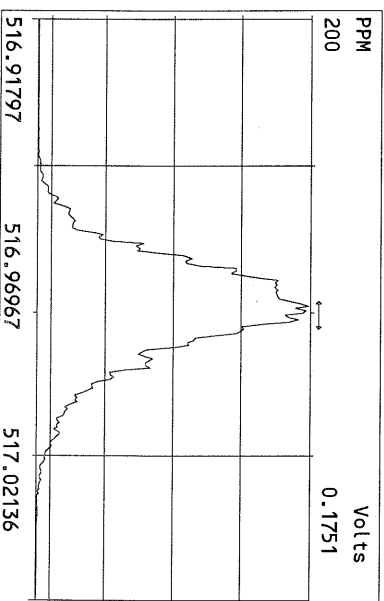
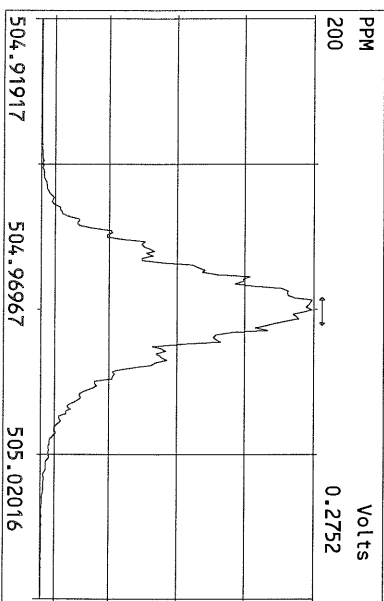
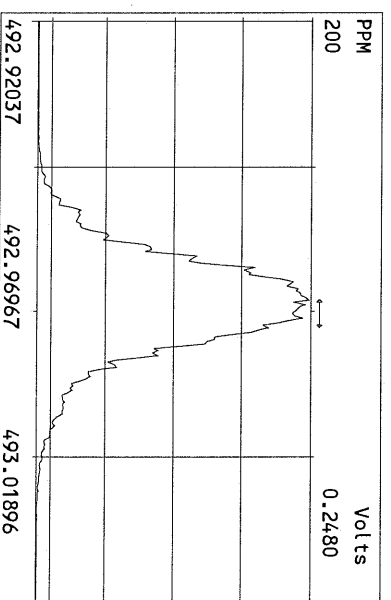
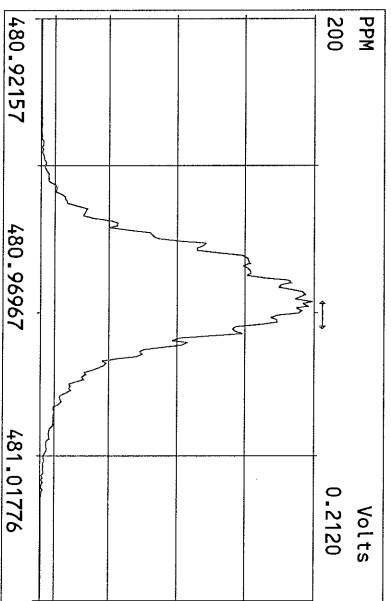
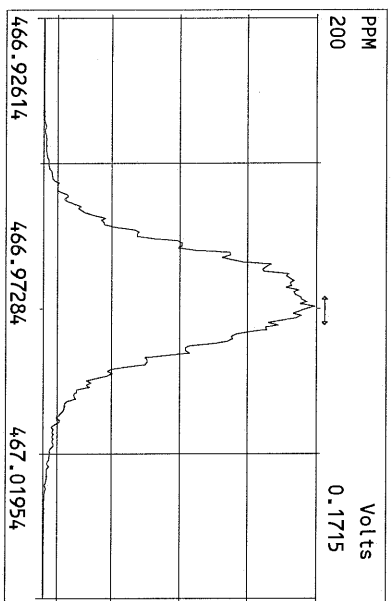
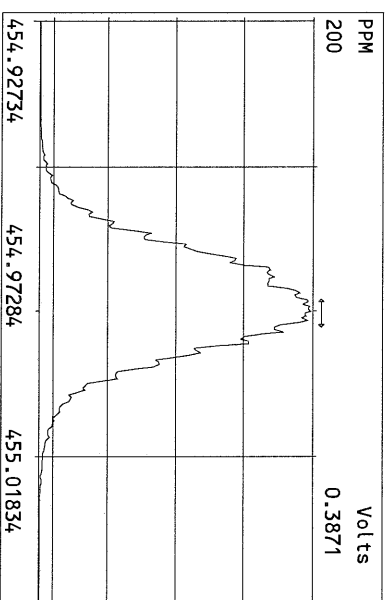
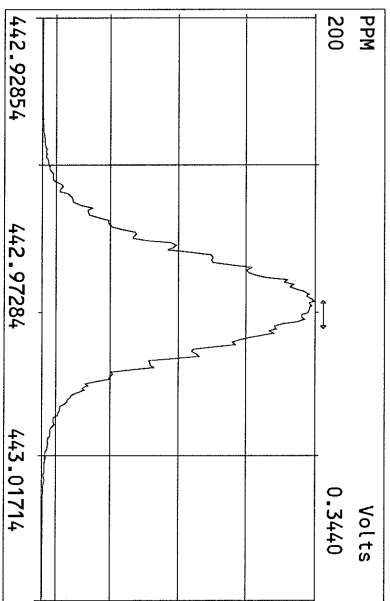
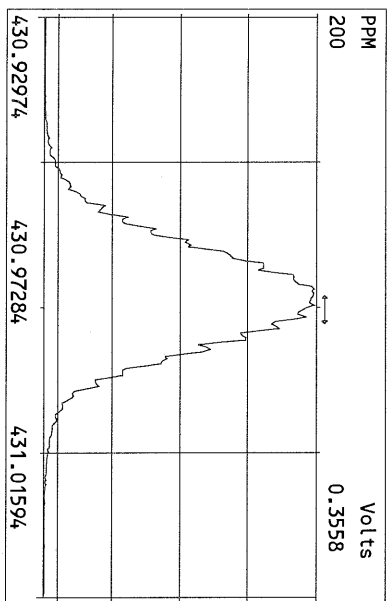












USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

VER Data Filename: 19MAY11Z Sam:1

Analysis Date: 19-MAY-11 09:10:24

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	0.80	0.65-0.89	y	10.2	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.58	1.32-1.78	y	52.6	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	50.7	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.24	1.05-1.43	y	52.3	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.23	1.05-1.43	y	53.6	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	51.8	43.0 - 58.0
OCDD	M+2/M+4	0.89	0.76-1.02	y	98.8	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.77	0.65-0.89	y	9.77	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.52	1.32-1.78	y	50.2	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.52	1.32-1.78	y	50.1	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	50.3	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	52.3	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	51.1	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.26	1.05-1.43	y	50.9	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.05	0.88-1.20	y	51.4	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.08	0.88-1.20	y	50.1	43.0 - 58.0
OCDF	M+2/M+4	0.89	0.76-1.02	y	108	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: JDate: 5/19/11

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

VER Data Filename: 19MAY11Z Sam:1

Analysis Date: 19-MAY-11 09:10:24

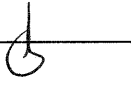
LABELLED COMPOUNDS	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
13C-2,3,7,8-TCDD	M/M+2	0.81	0.65-0.89	y	105	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.61	1.32-1.78	y	111	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	103	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.27	1.05-1.43	y	97.5	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	110	72.0 - 138
13C-OCDD	M+2/M+4	0.92	0.76-1.02	y	252	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	104	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	108	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.60	1.32-1.78	y	109	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	111	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	106	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	108	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	112	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37-0.51	y	115	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.44	0.37-0.51	y	121	77.0 - 129
13C-OCDF	M+2/M+4	0.93	0.76-1.02	y	235	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.93	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: 

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL4 Initial Calibration Date: 5/17/11
RT Window Data Filename: 19MAY11Z Sam:1 Analysis Date: 19-MAY-11 Time: 09:10:24
DB-5 IS Data Filename: 19MAY11Z Sam:1 Analysis Date: 19-MAY-11 Time: 09:10:24
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)	24:21	1,3,6,8-TCDF (F)	22:58
1,2,8,9-TCDD (L)	28:20	1,2,8,9-TCDF (L)	28:33
1,2,4,7,9-PeCDD (F)	30:16	1,3,4,6,8-PeCDF (F)	28:26
1,2,3,8,9-PeCDD (L)	33:49	1,2,3,8,9-PeCDF (L)	34:14
1,2,4,6,7,9-HxCDD (F)	36:08	1,2,3,4,6,8-HxCDF (F)	35:16
1,2,3,7,8,9-HxCDD (L)	39:12	1,2,3,7,8,9-HxCDF (L)	39:47
1,2,3,4,6,7,9-HpCDD (F)	42:47	1,2,3,4,6,7,8-HpCDF (F)	42:16
1,2,3,4,6,7,8-HpCDD (L)	44:10	1,2,3,4,7,8,9-HpCDF (L)	45:05

(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: J

Date: 5/19/11

Frontier Analytical Laboratory - Acquisition Log

Run Name:19MAY11Z

Instrument: FAL4

GC: DB5

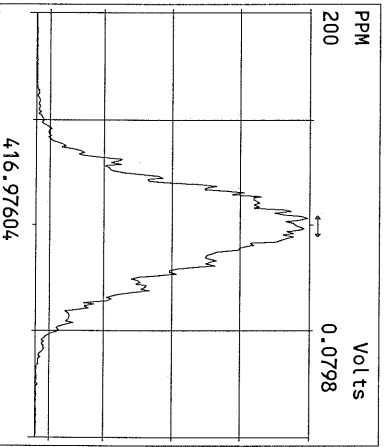
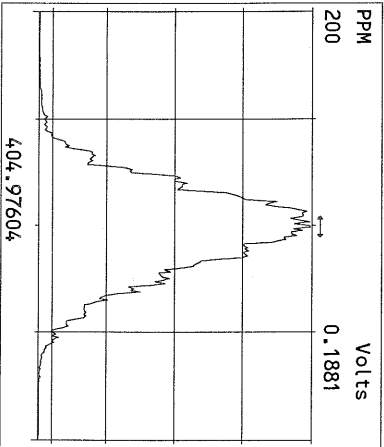
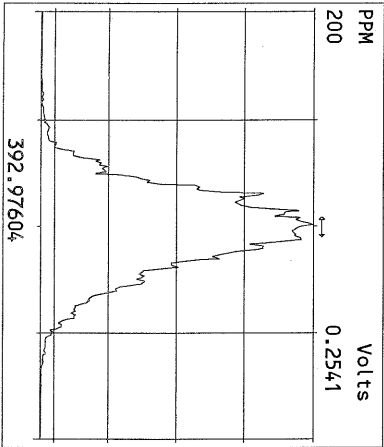
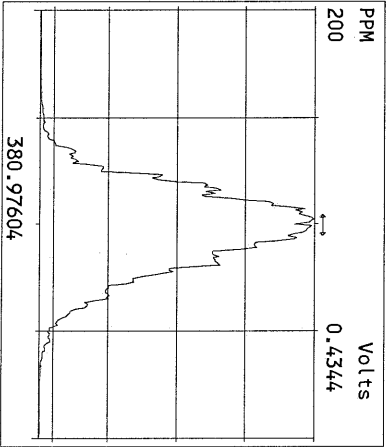
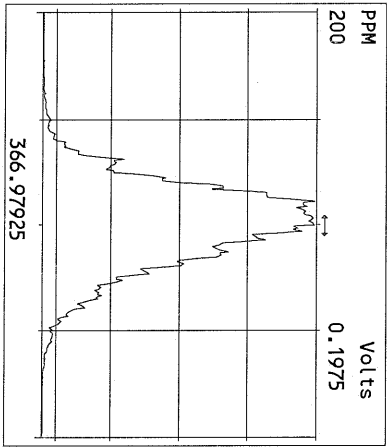
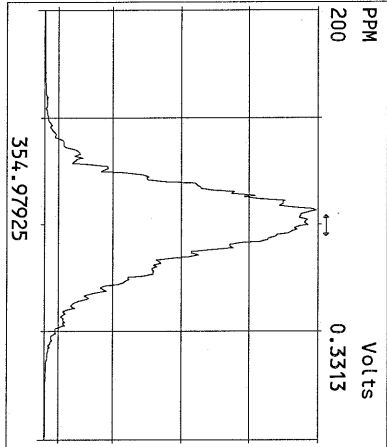
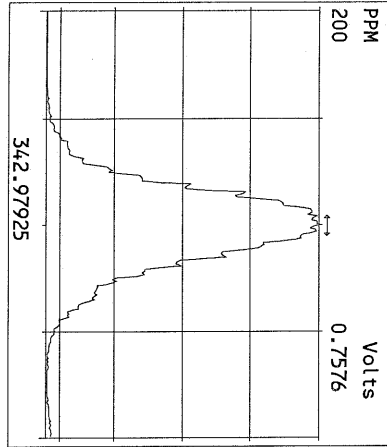
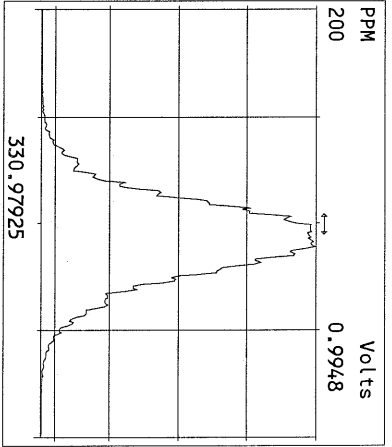
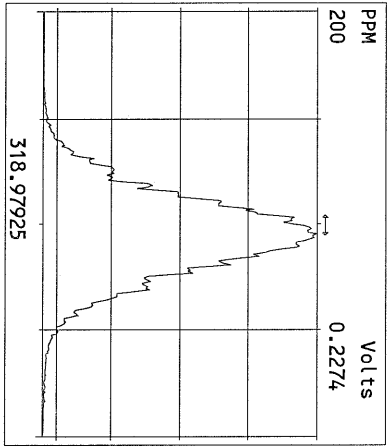
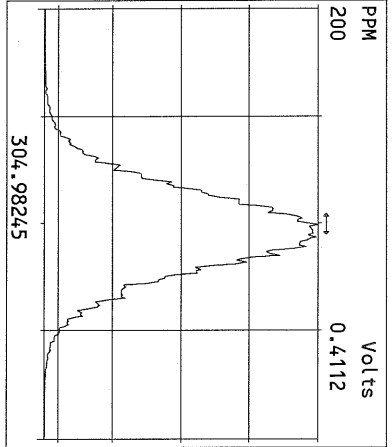
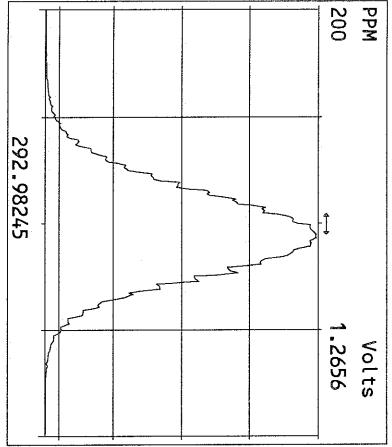
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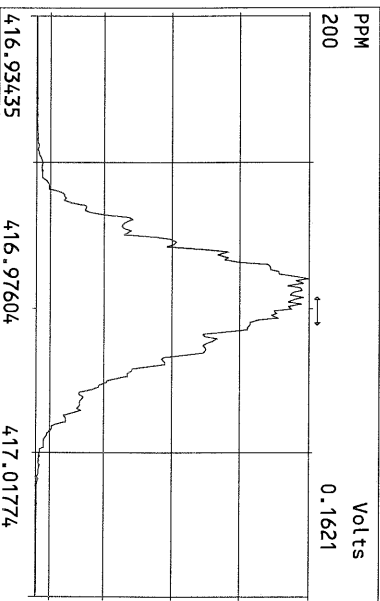
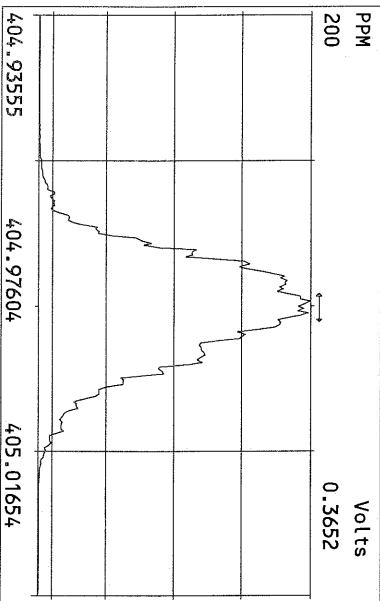
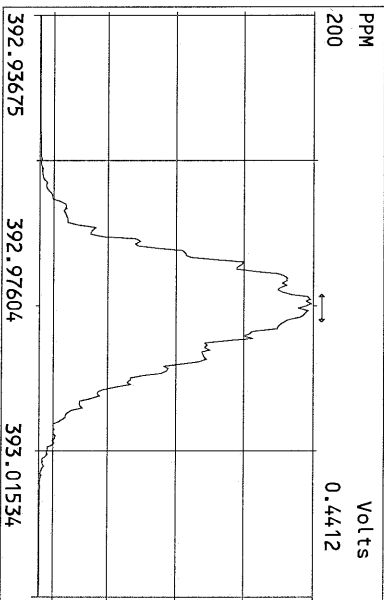
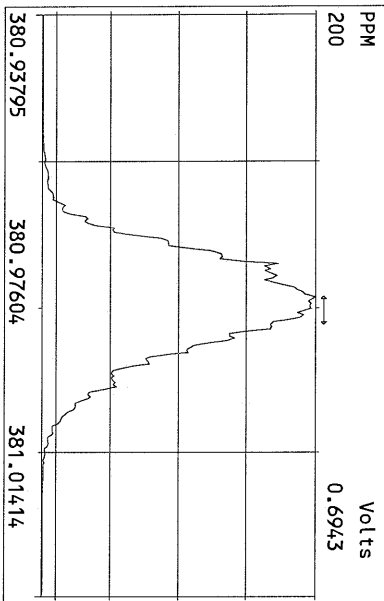
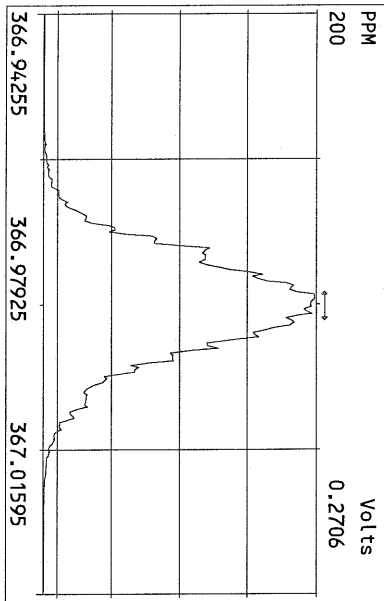
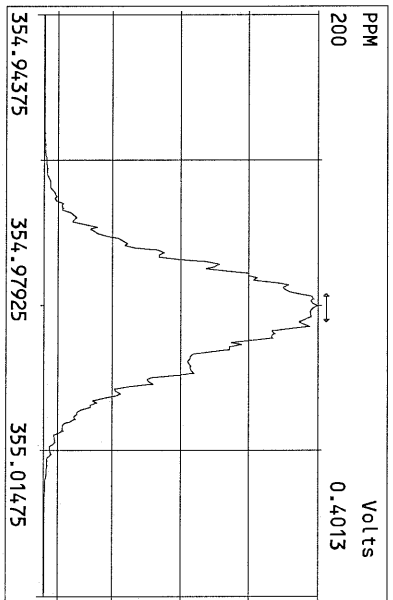
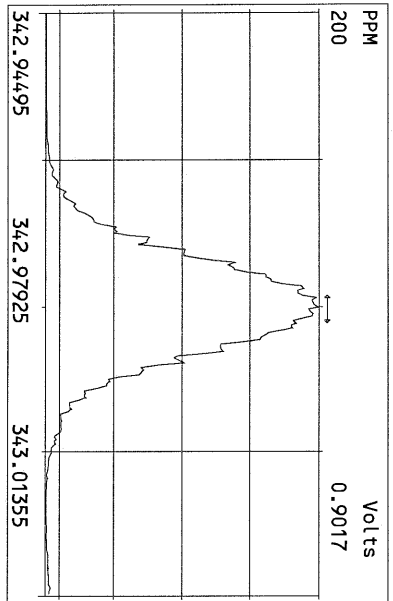
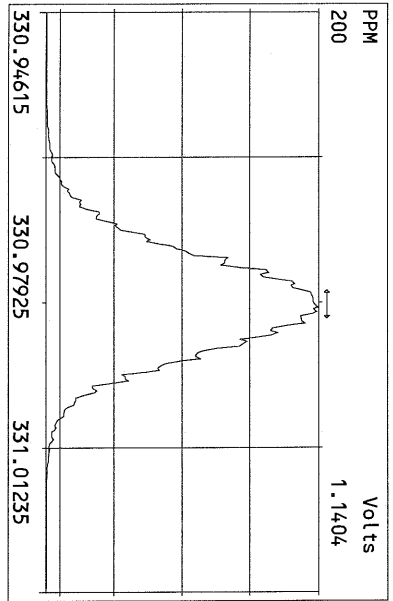
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19MAY11Z 5	ST051911Z2	1613 CS3 100511J	19-MAY-11 12:49:34	ST051911Z1	ST051911Z2	BS
19MAY11Z 6	QC051911Z1	NEWQC	19-MAY-11 13:44:22	ST051911Z1	ST051911Z2	BS
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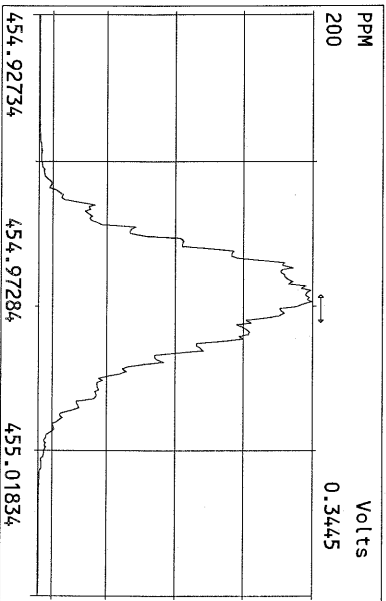
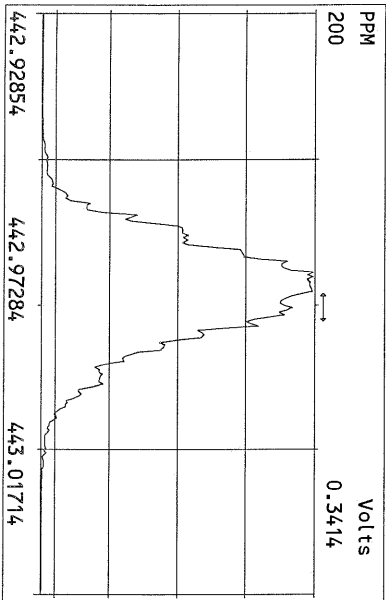
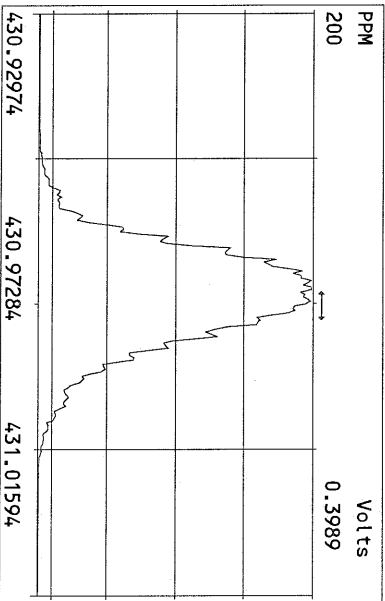
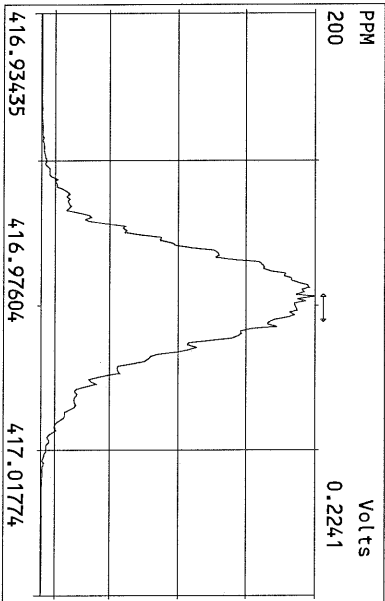
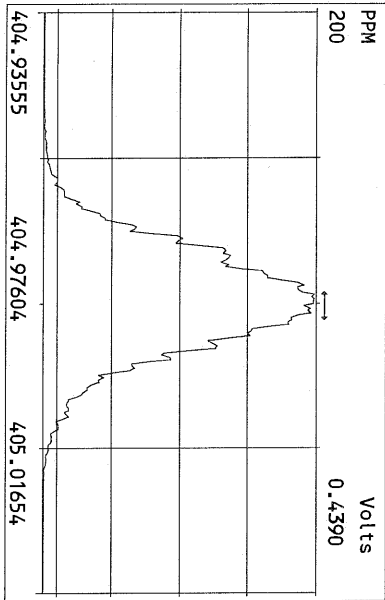
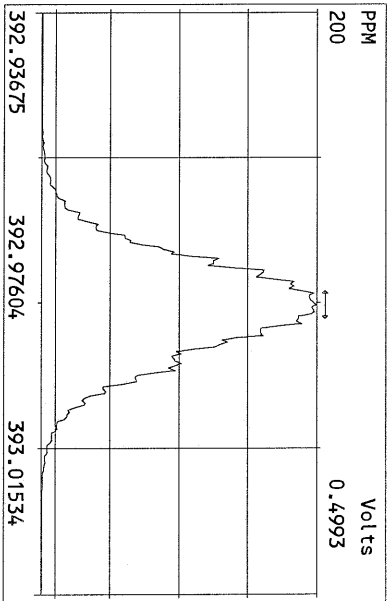
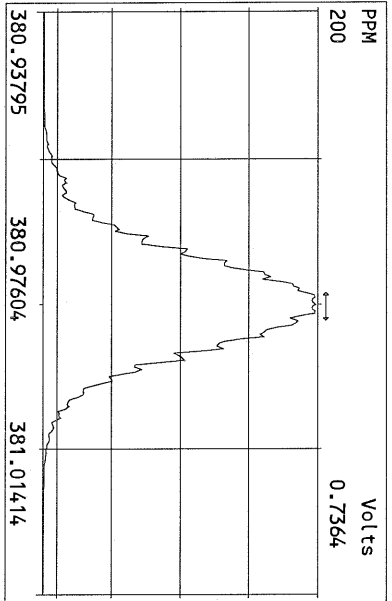
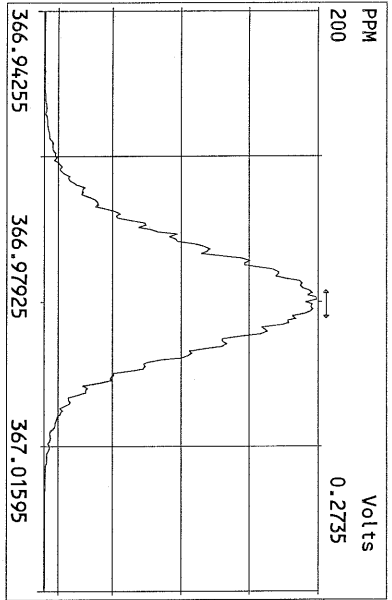
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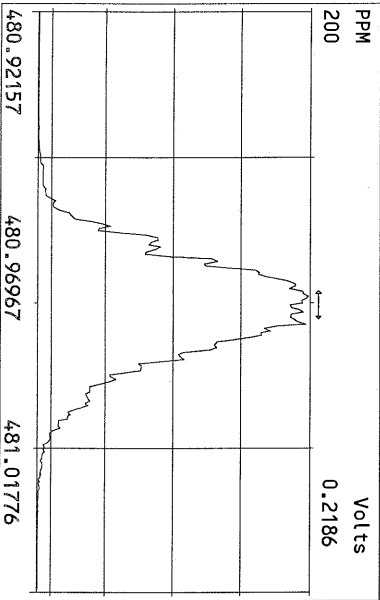
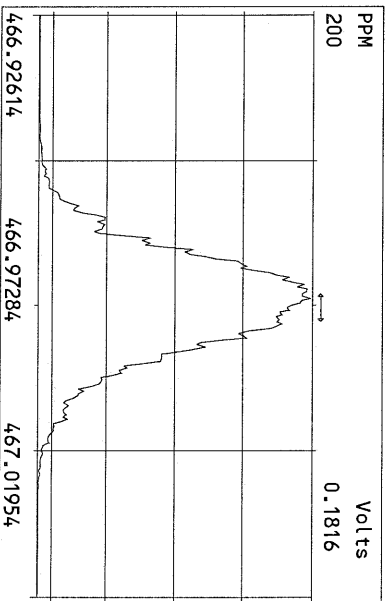
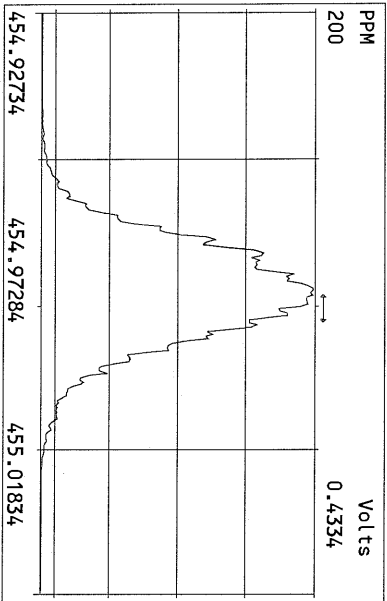
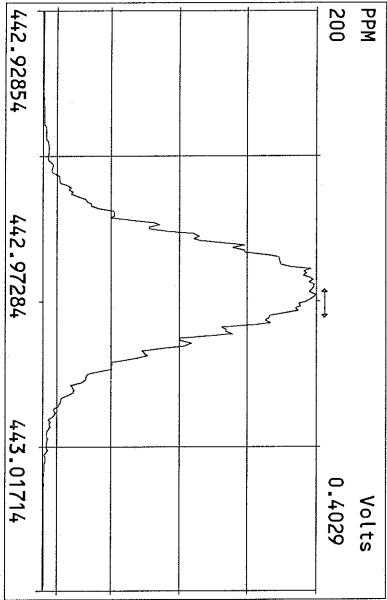
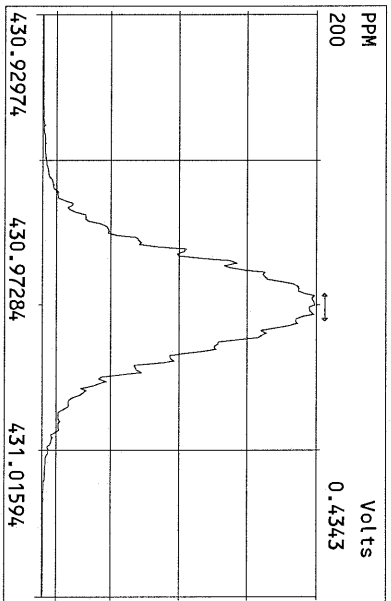
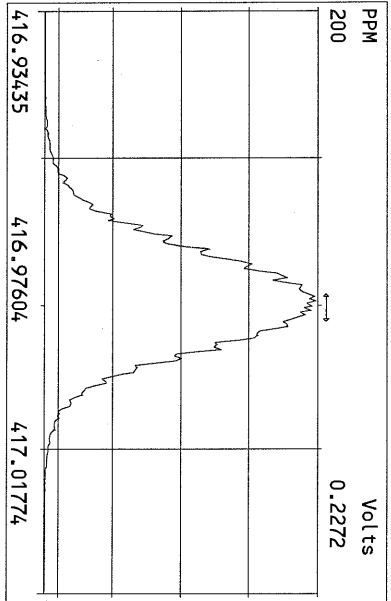
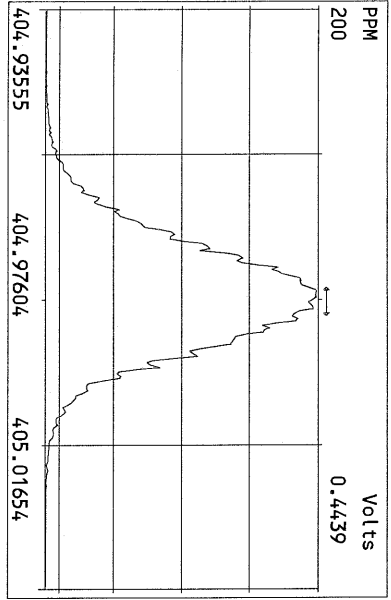
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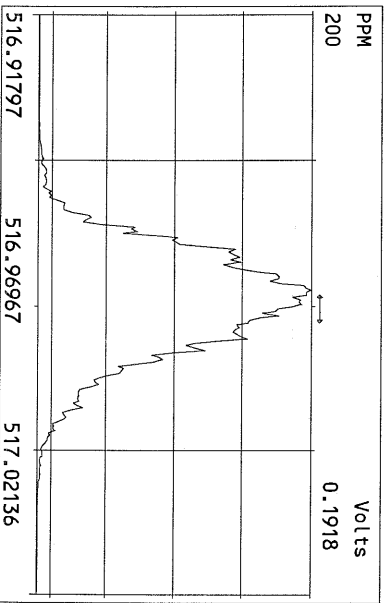
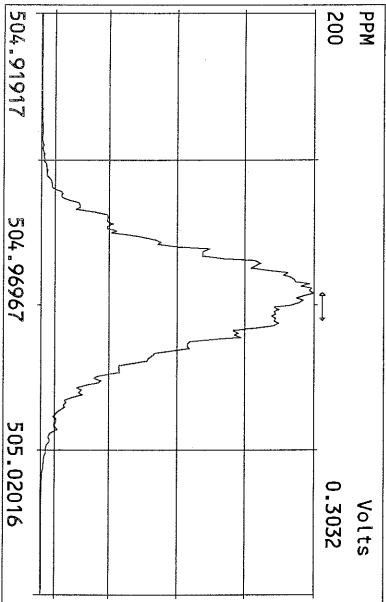
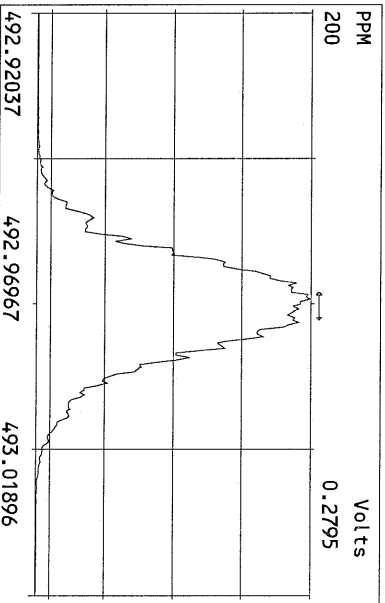
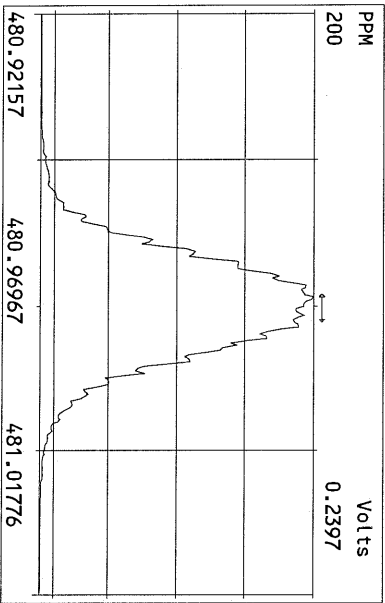
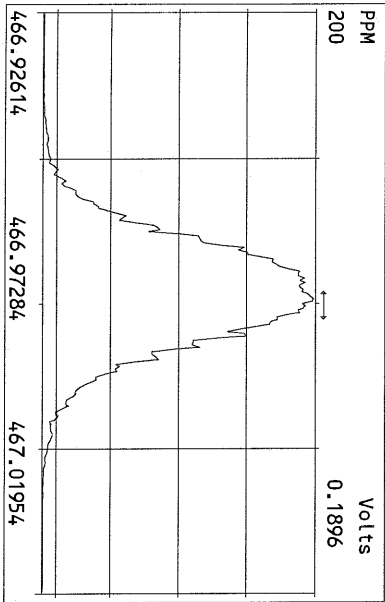
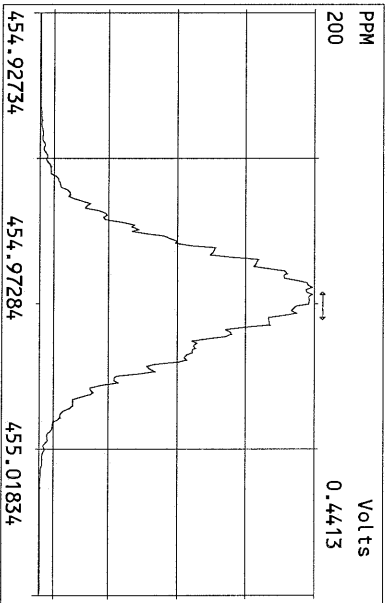
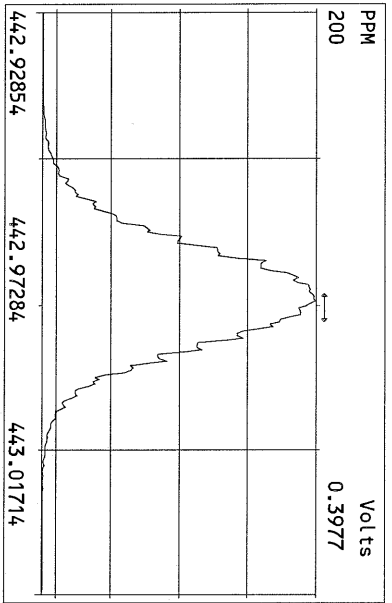
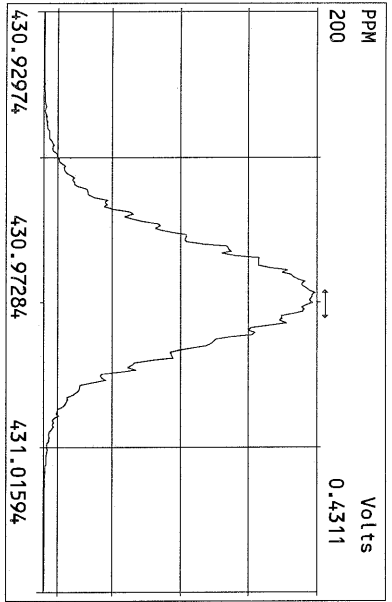
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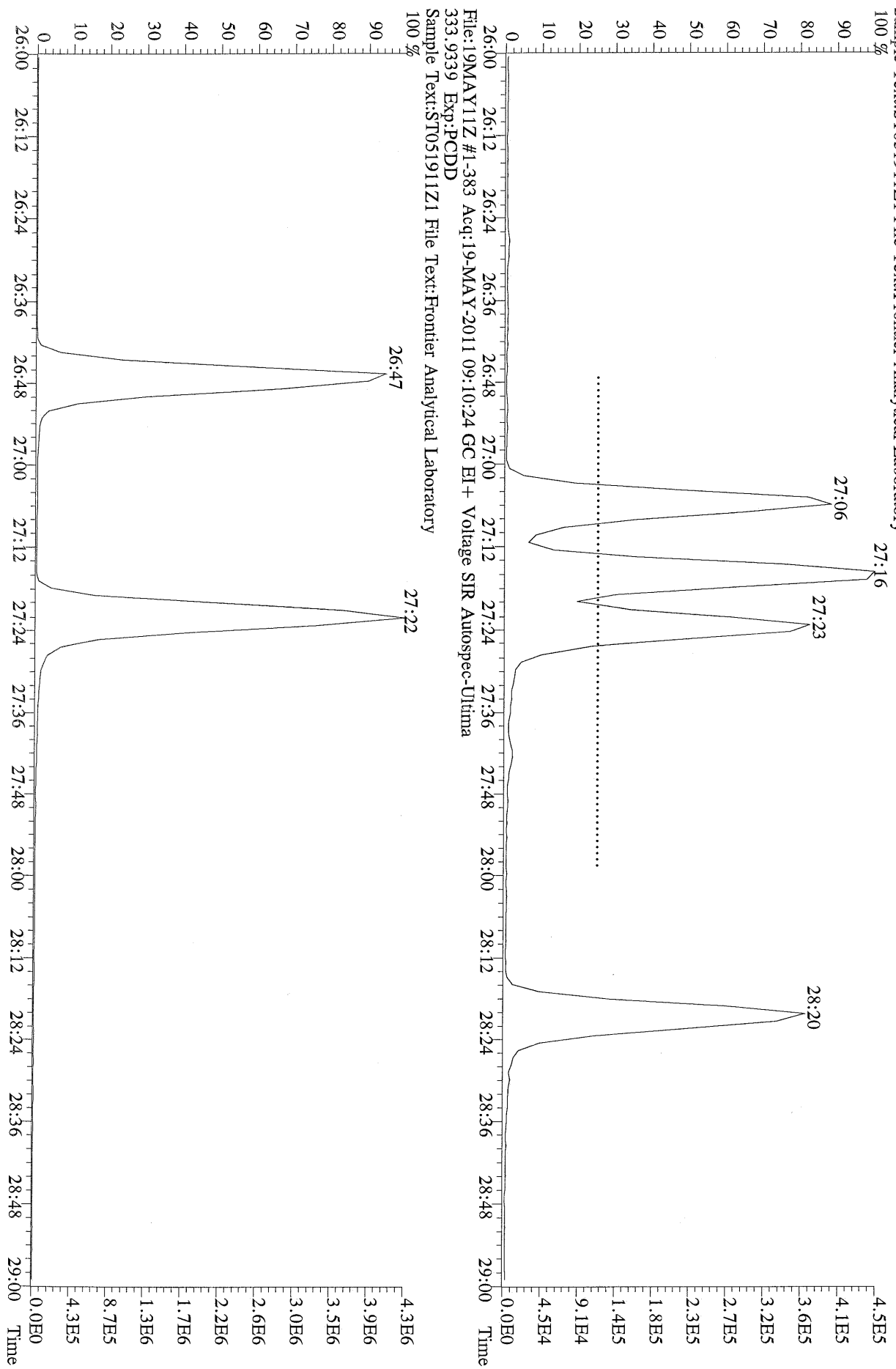




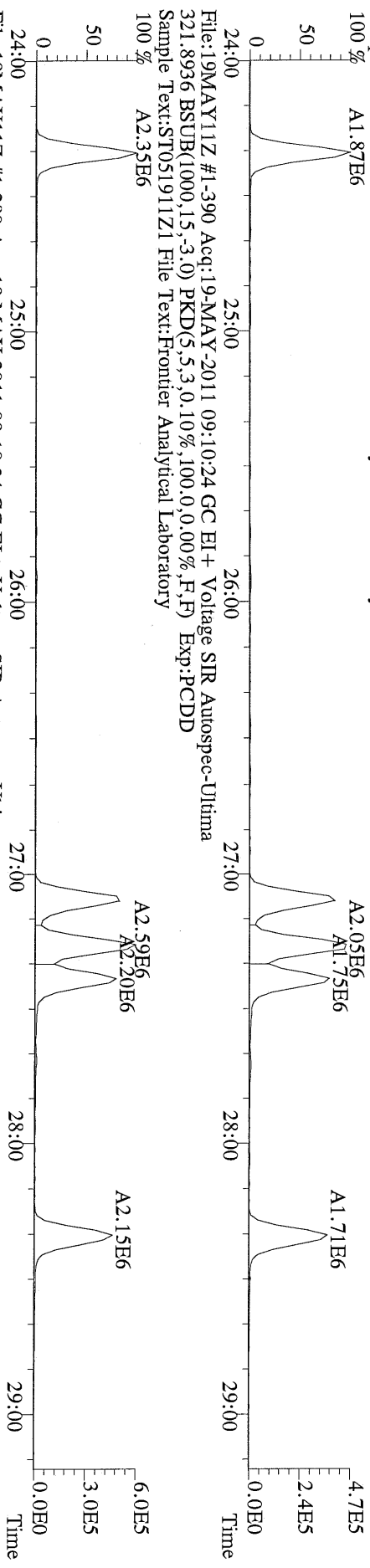




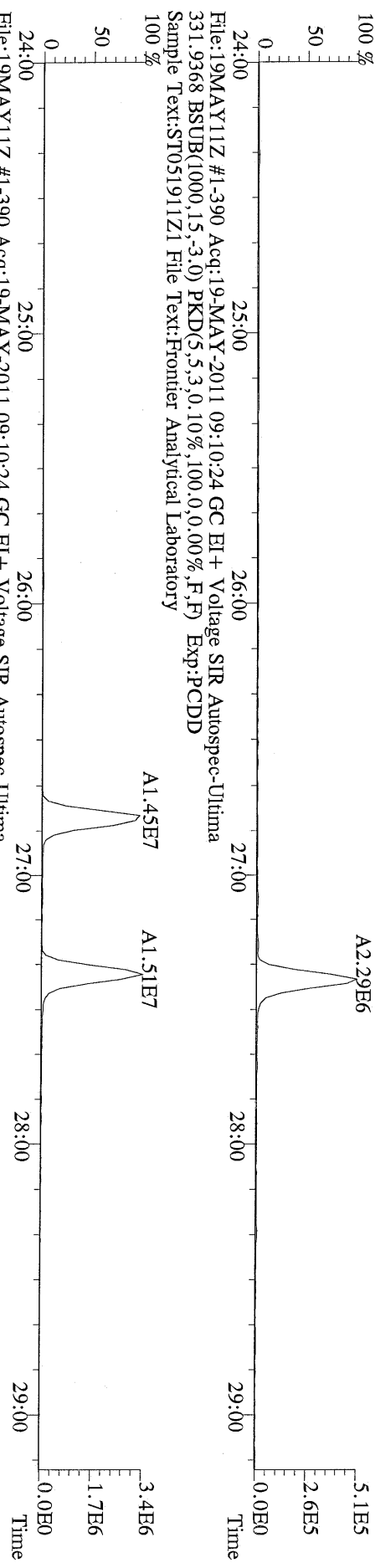
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100%



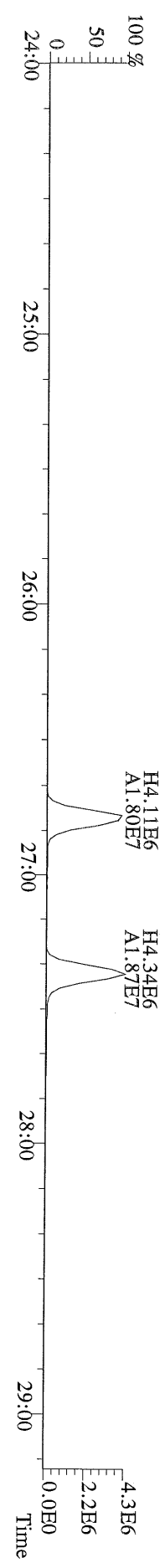
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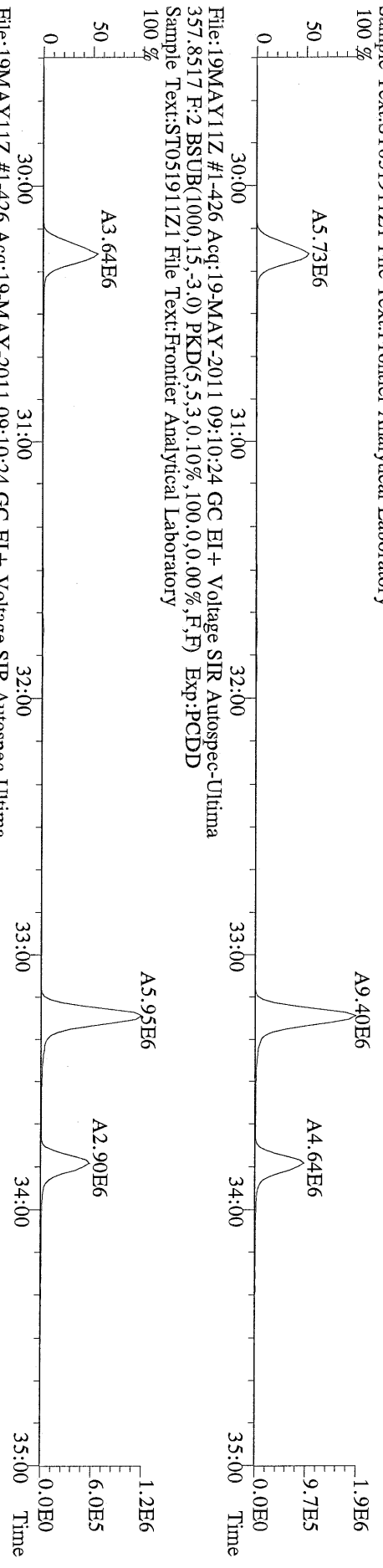
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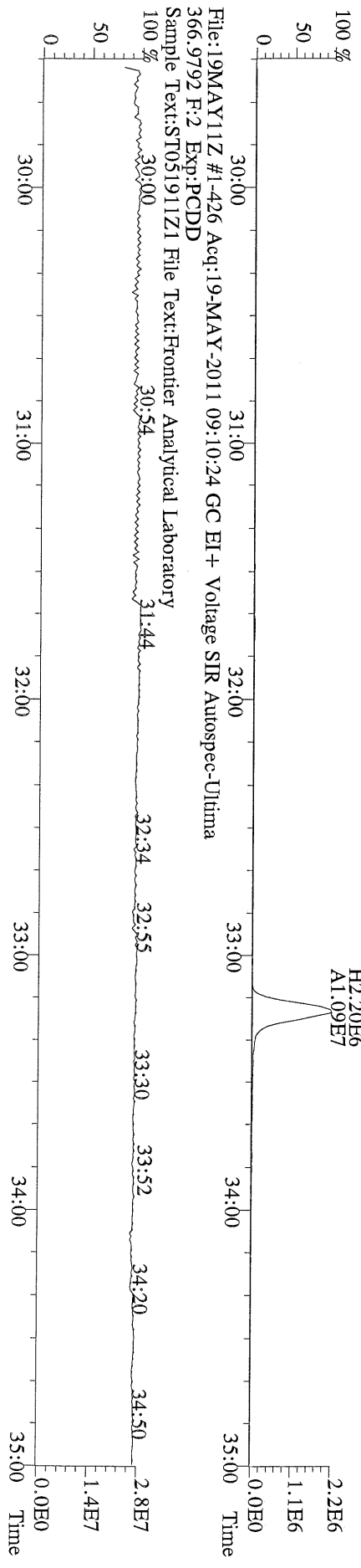
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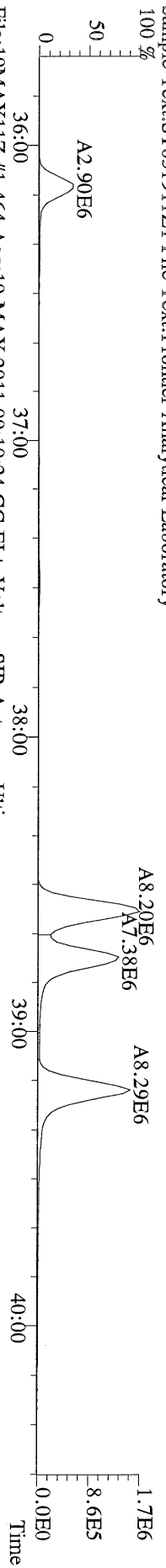
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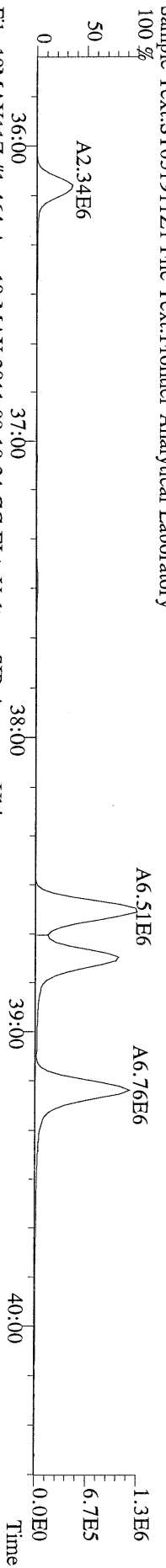
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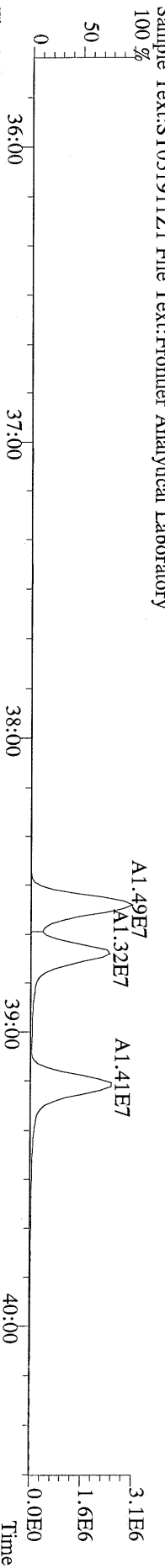
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 Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



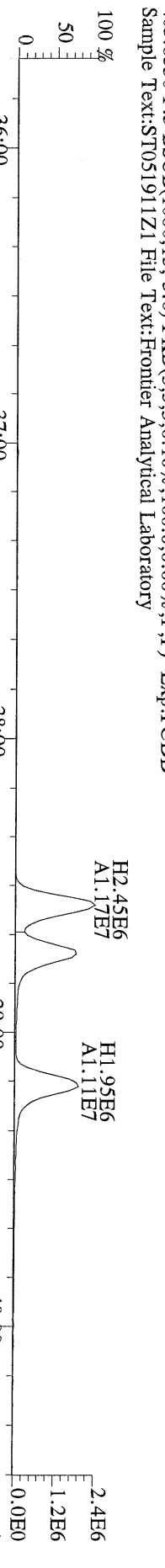
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 Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



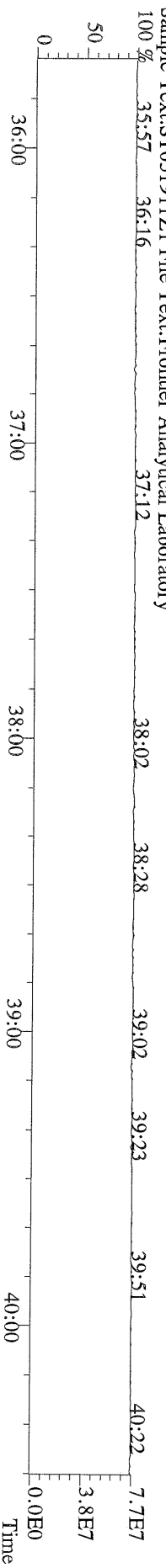
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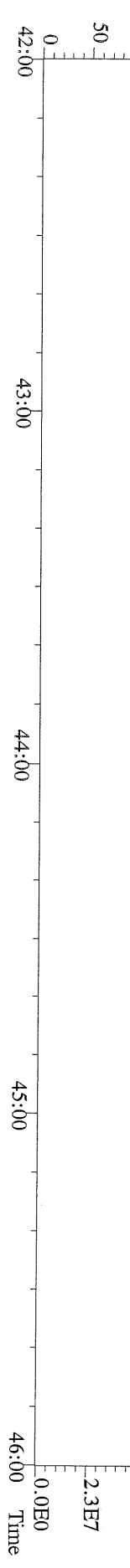
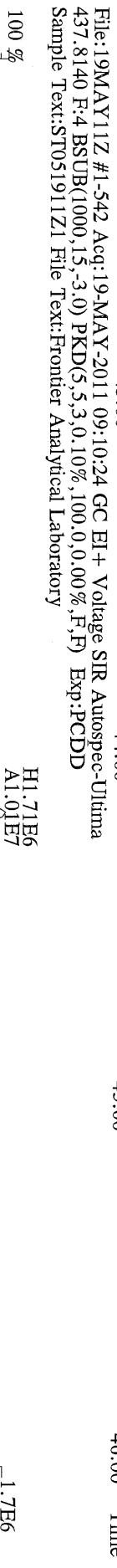
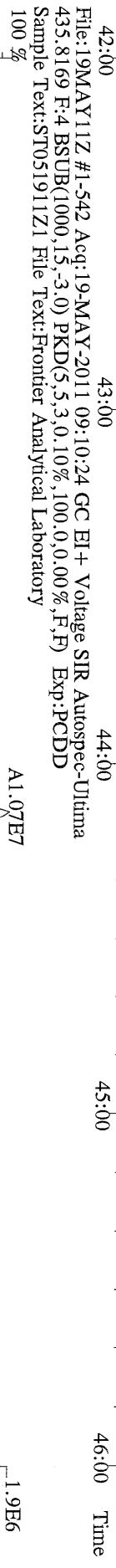
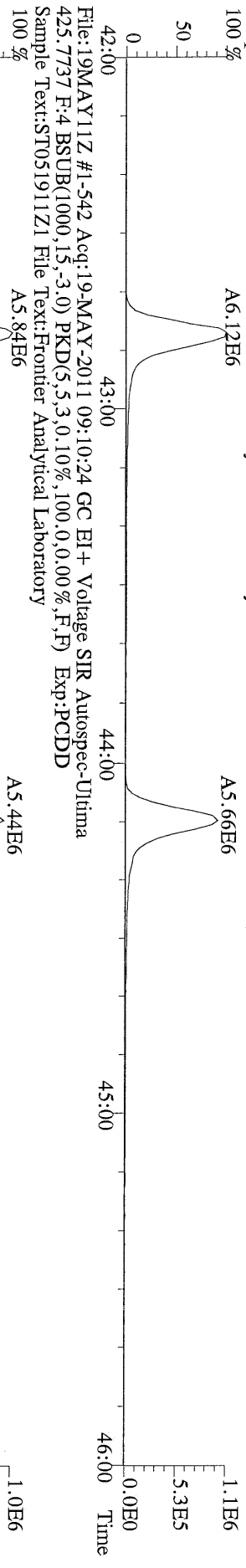
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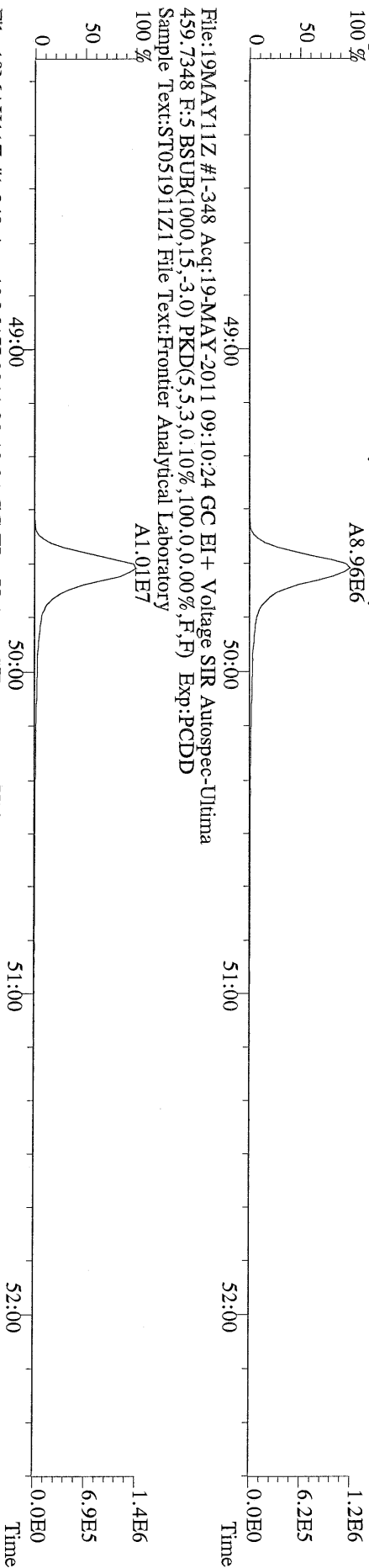
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 380.9760 F:3 Exp:PCDD
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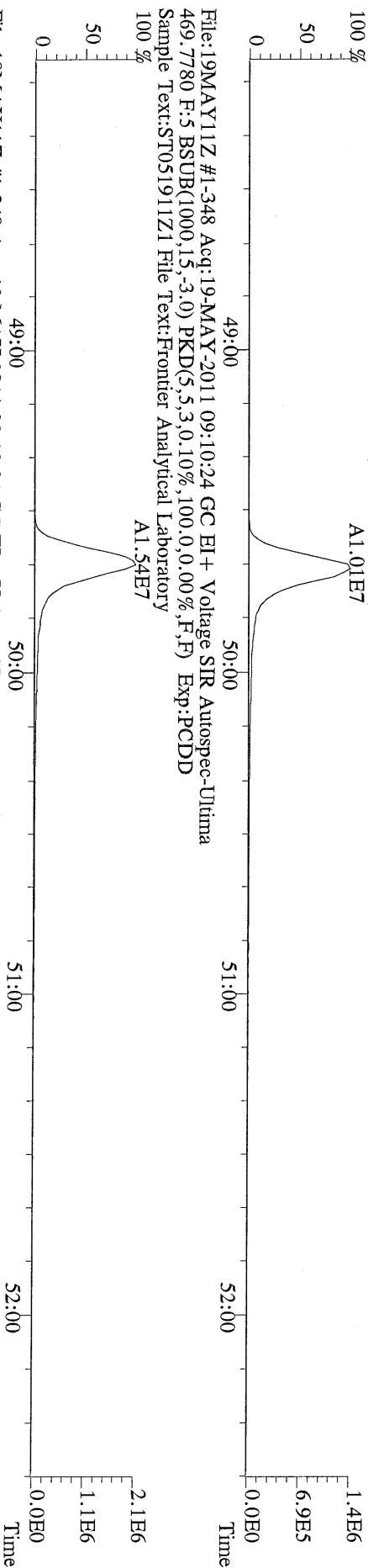
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423.7767 F:4 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



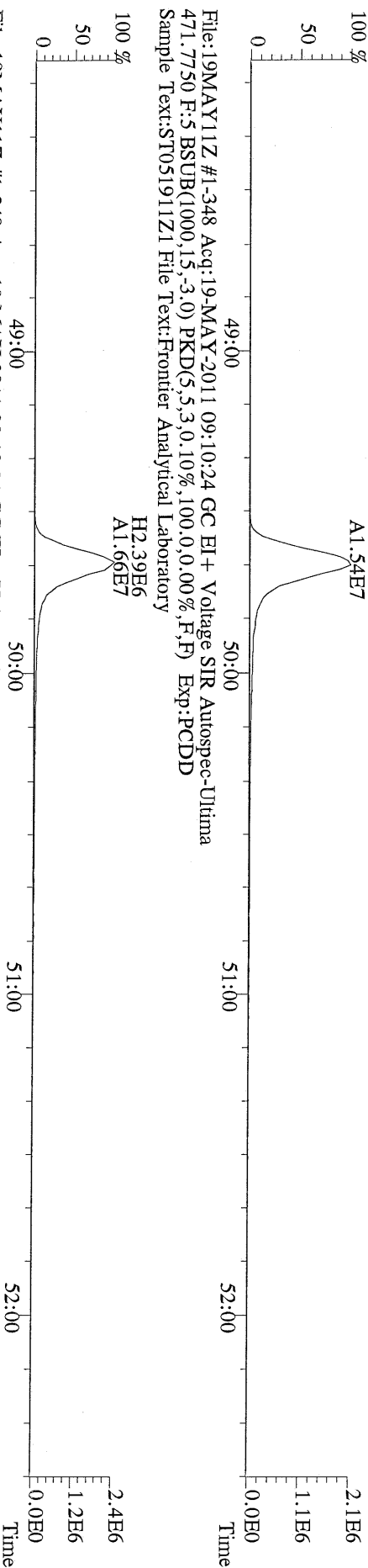
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457.7377 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F₁F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



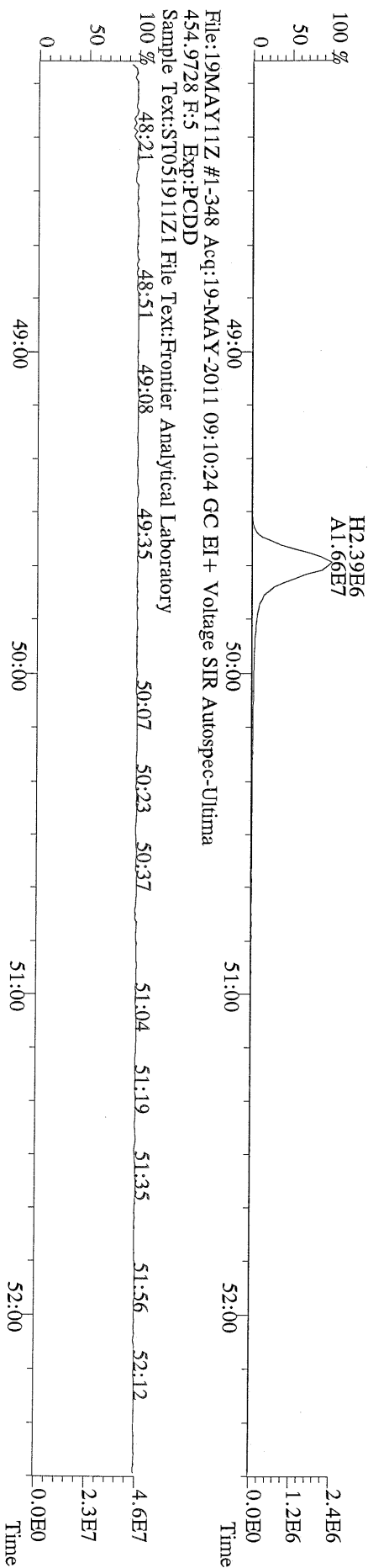
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459.7348 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F₁F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



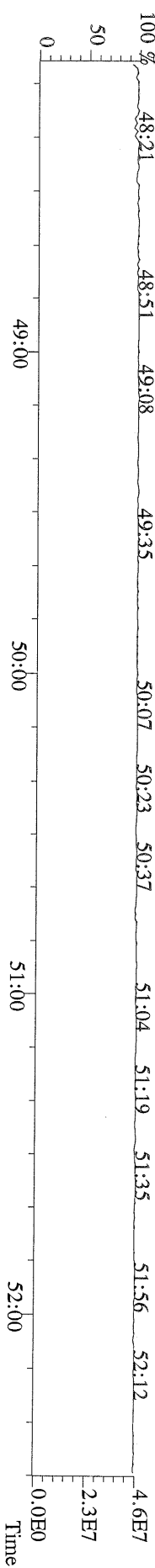
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Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



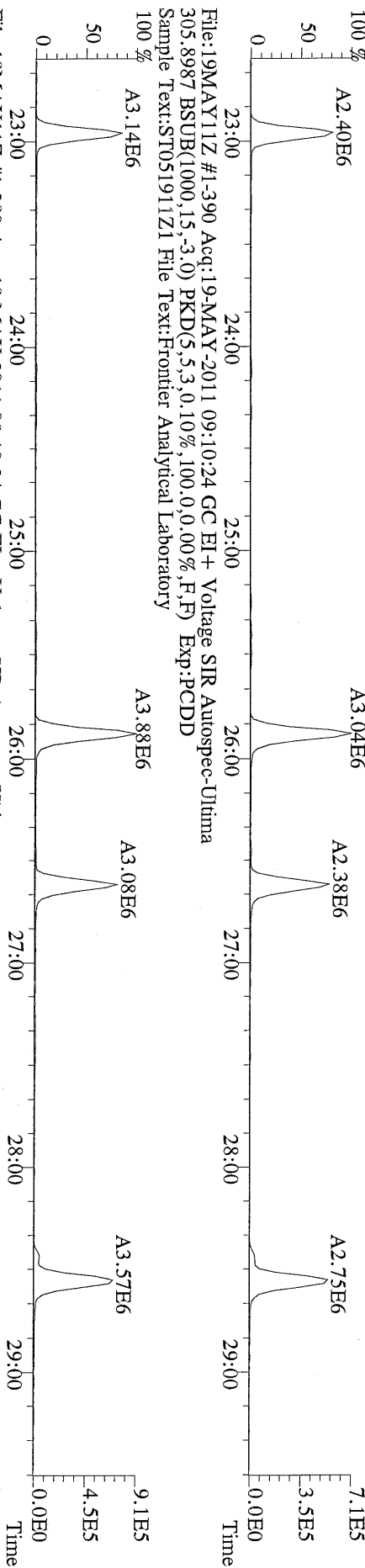
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Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



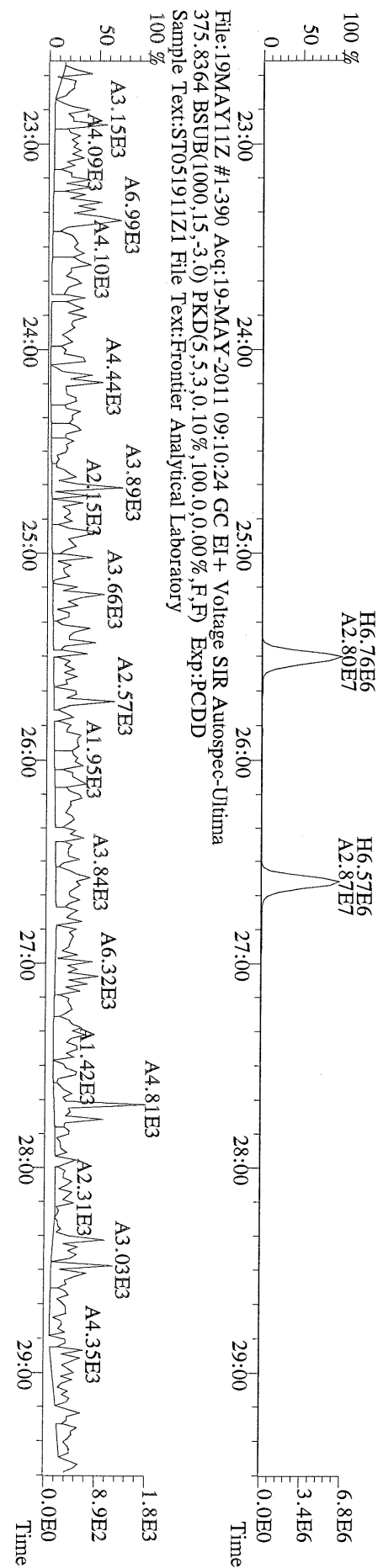
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454.9728 F:5 Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



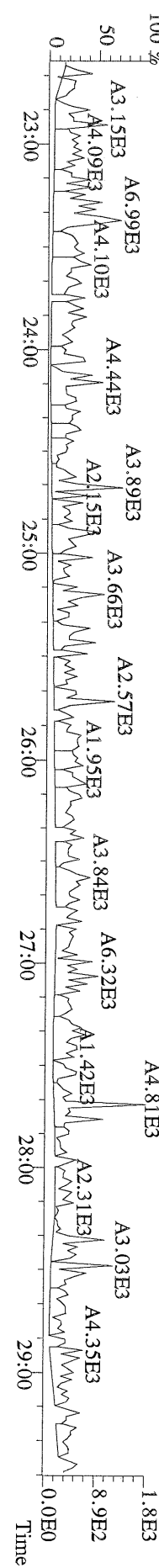
File:19MAY11Z #1-390 Acq:19-MAY-2011 09:10:24 GC EI + Voltage SIR Autospec-Ultima
303.9016 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



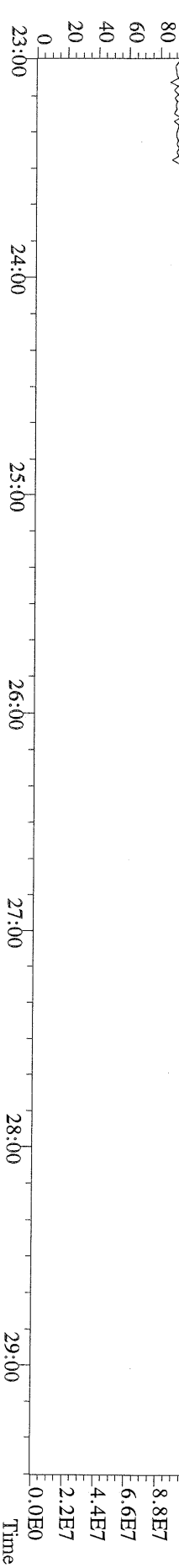
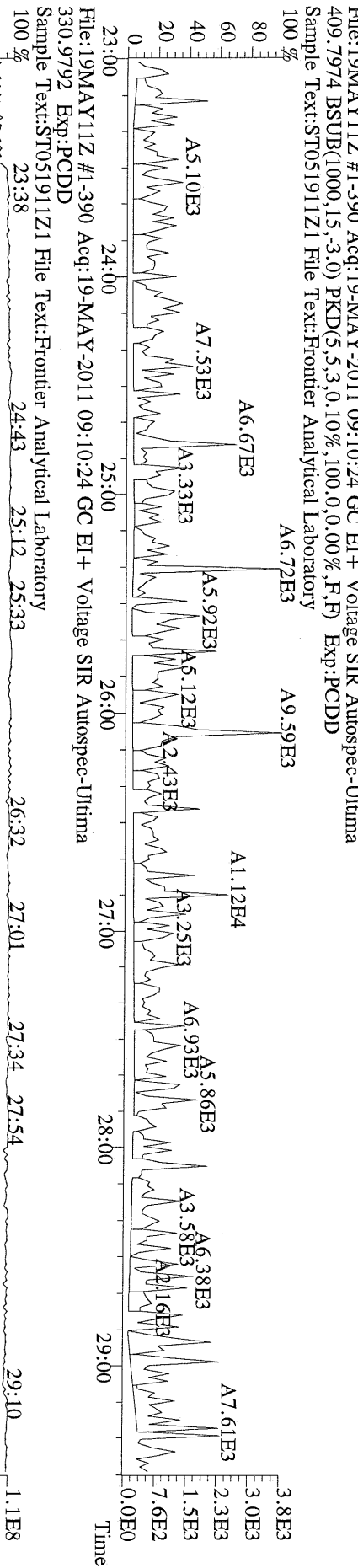
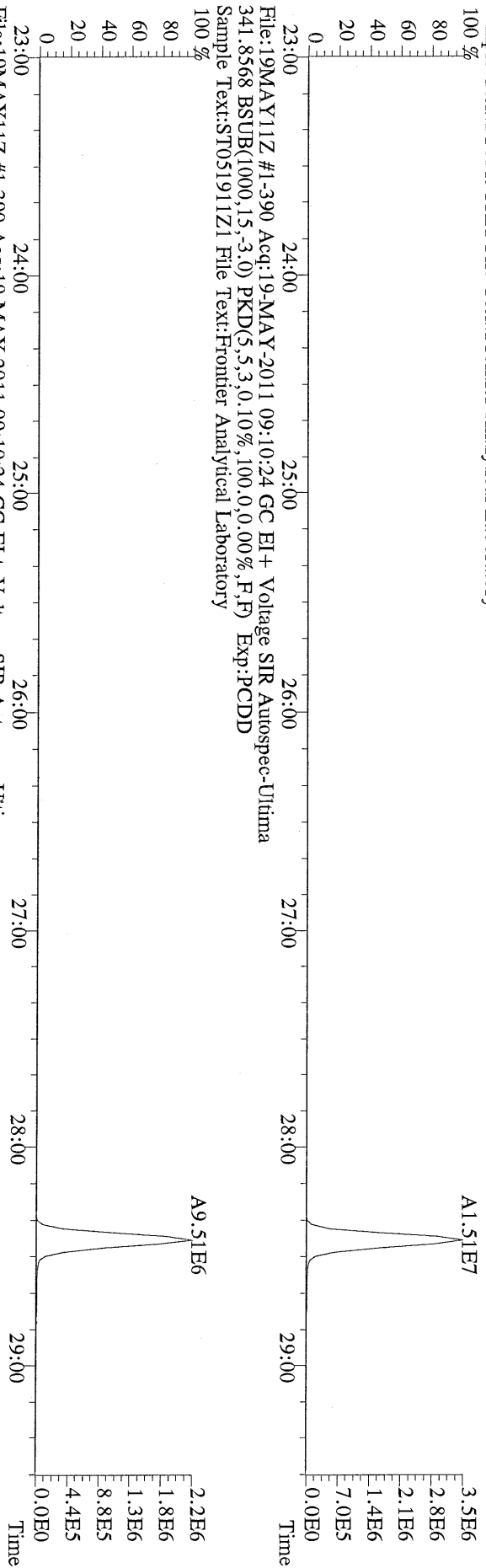
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315.9419 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



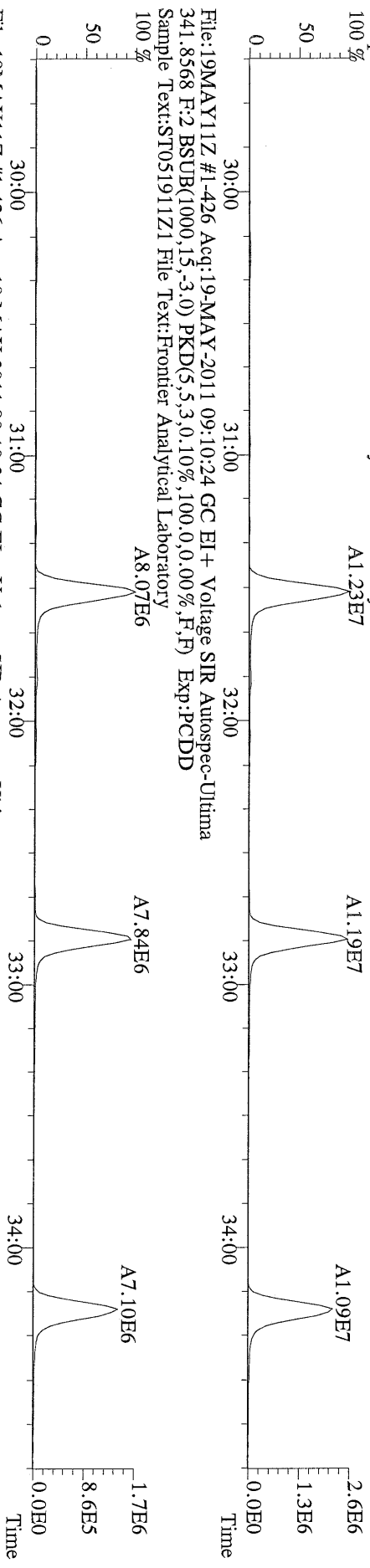
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375.8364 BSUB(1000,15,-3.0) PKD(5,5.3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



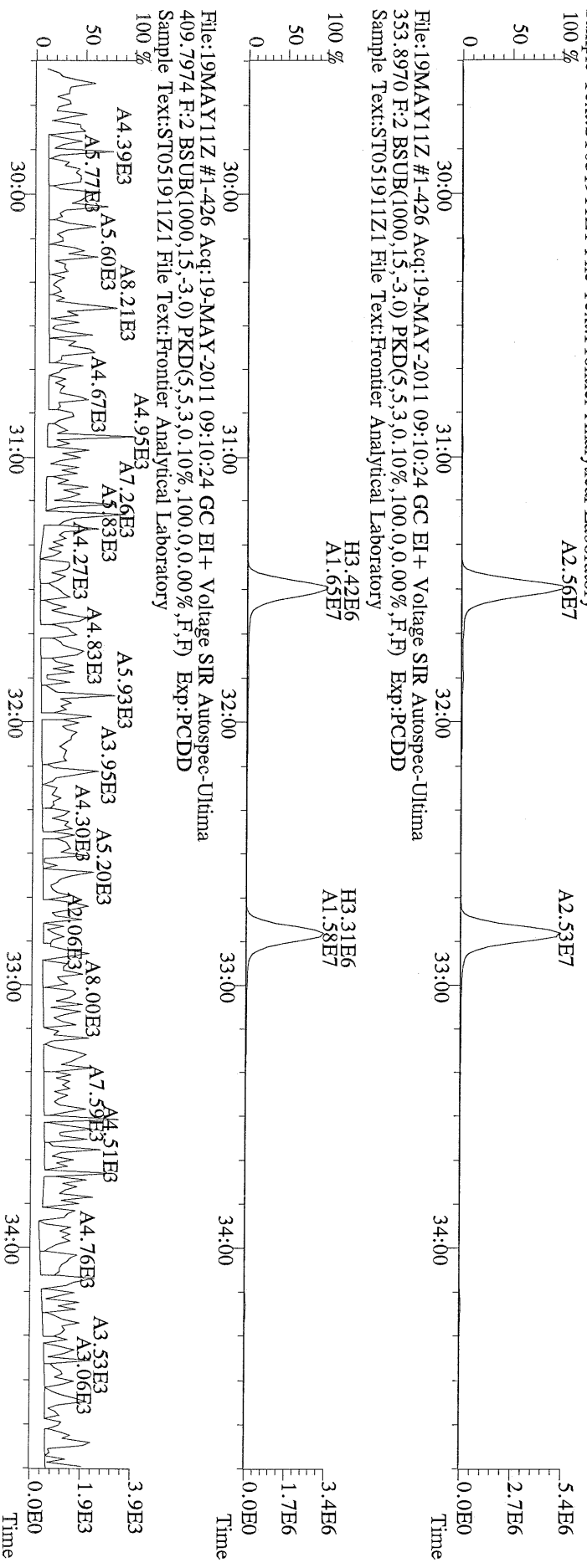
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 339.8597 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



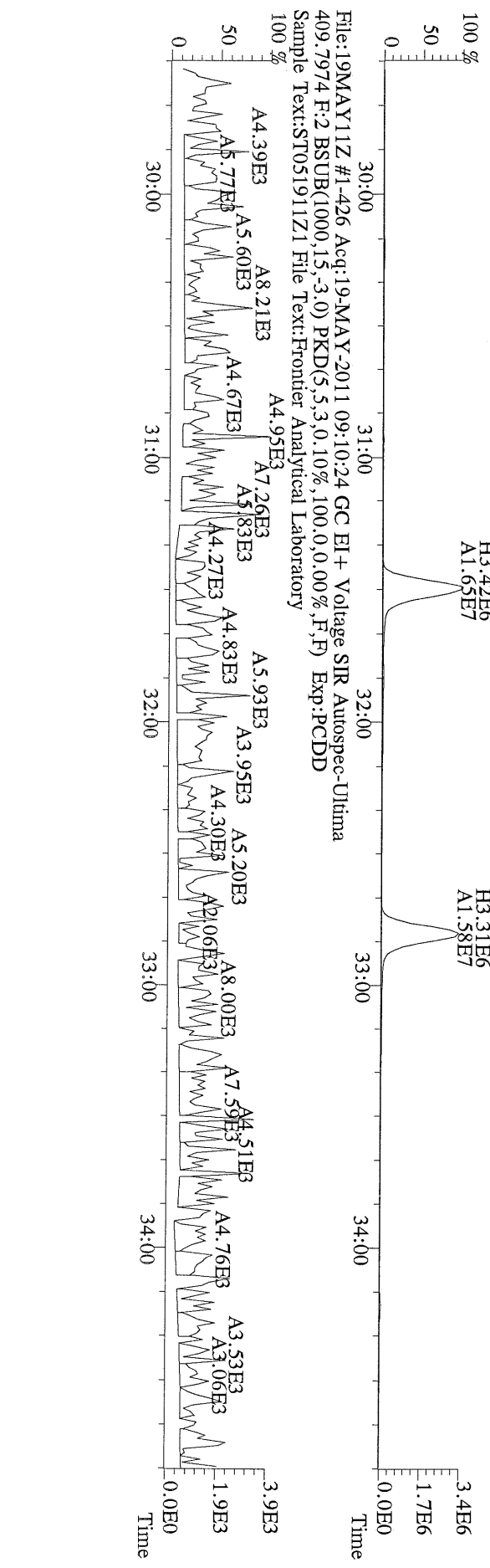
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339.8597 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



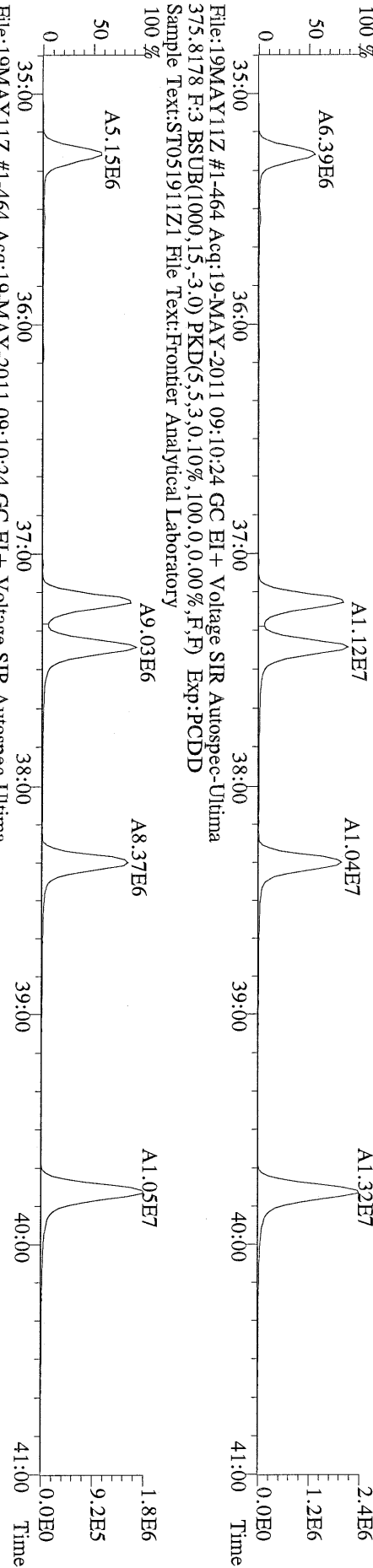
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351.9000 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



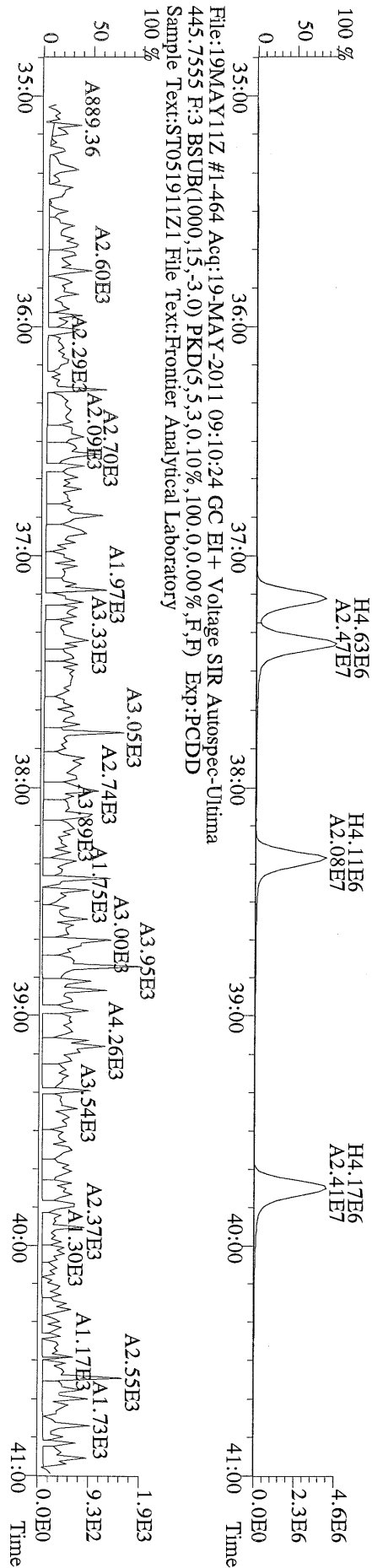
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409.7974 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



File:19MAY11Z #1-464 Acq:19-MAY-2011 09:10:24 GC EI+ Voltage SIR Autospec-Ultima
373.8207 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



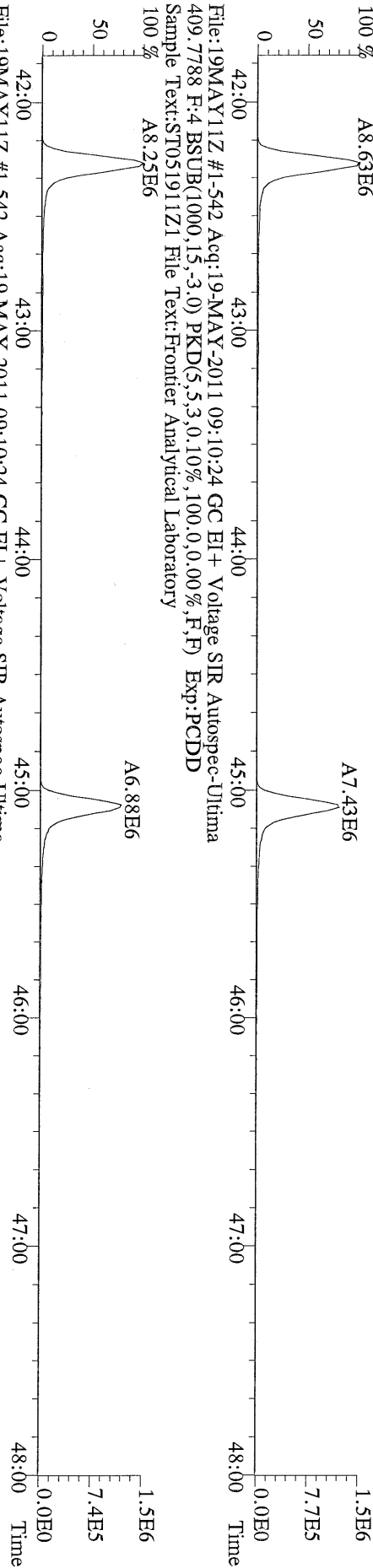
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385.8610 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



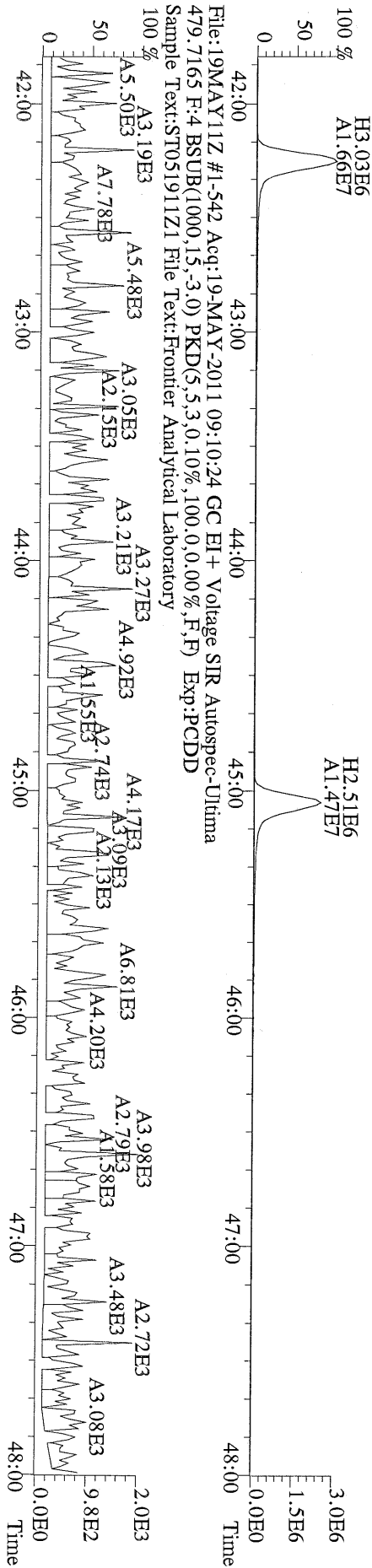
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445.7555 F:3 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



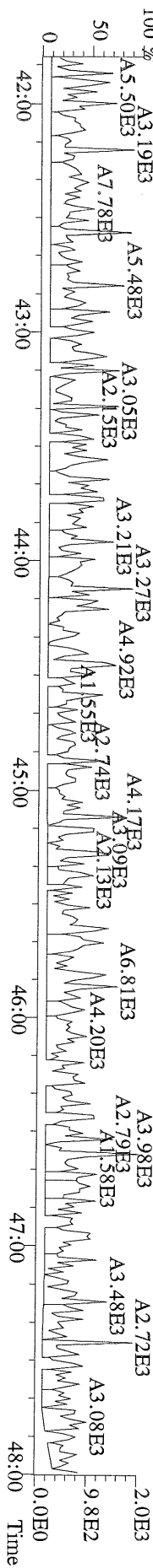
File:19MAY11Z #-1-542 Acq:19-MAY-2011 09:10:24 GC EI+ Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



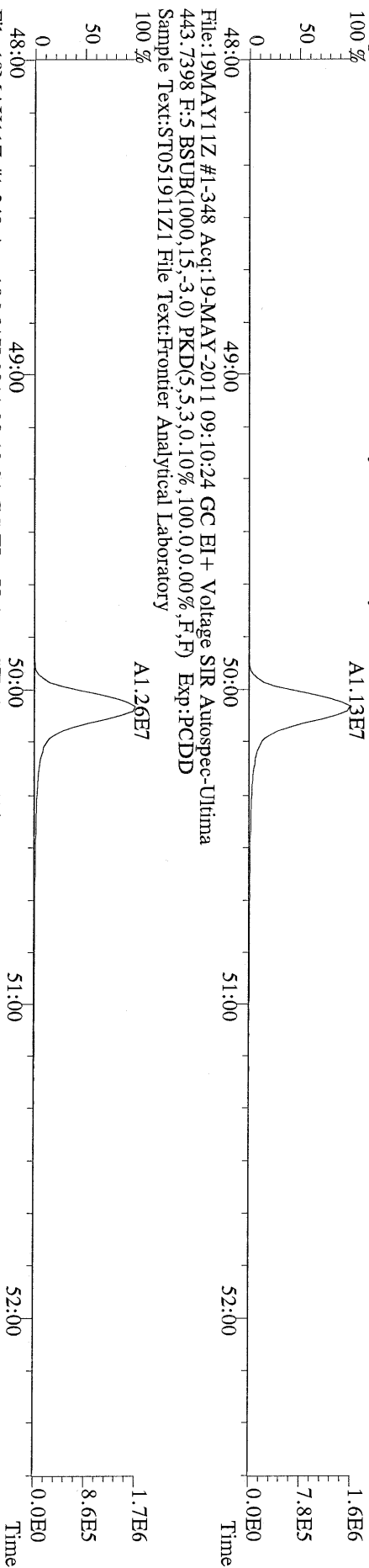
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417.8253 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



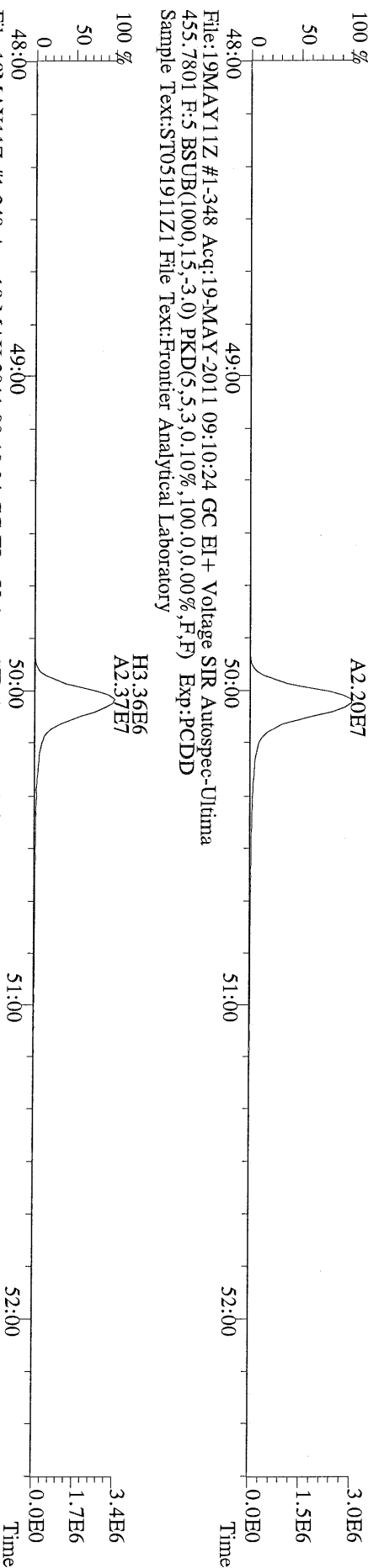
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479.7165 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



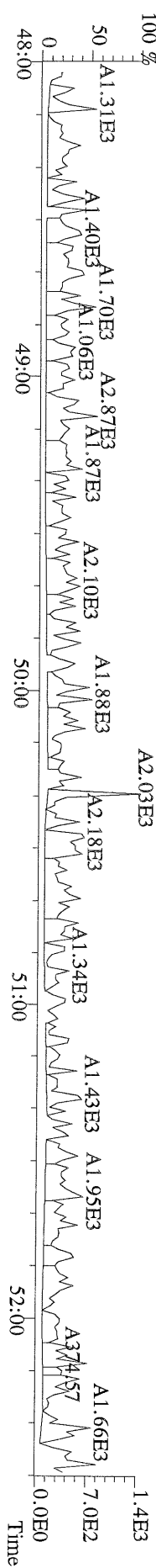
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441.7428 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory



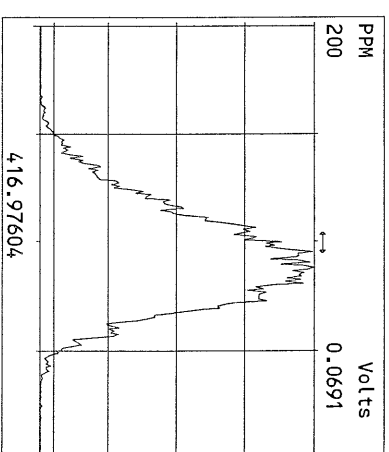
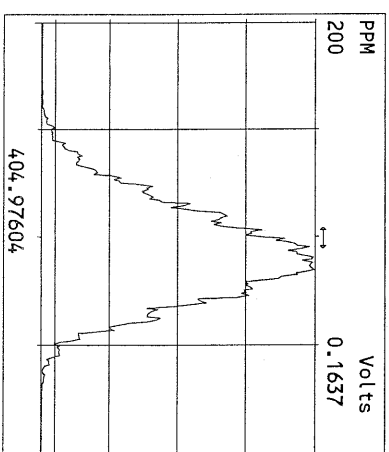
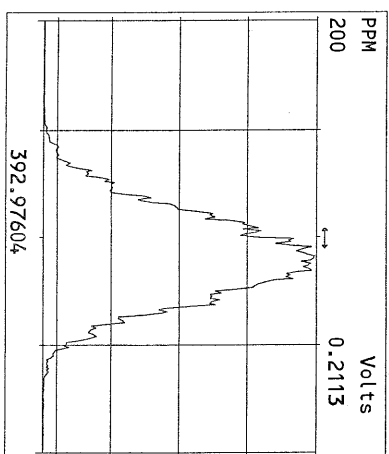
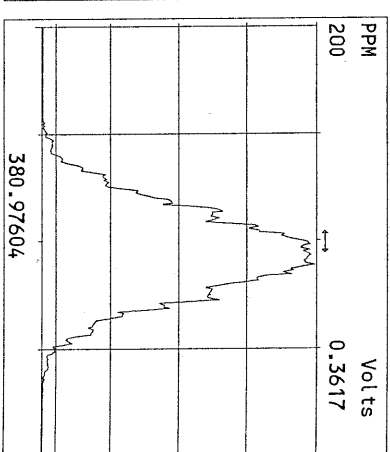
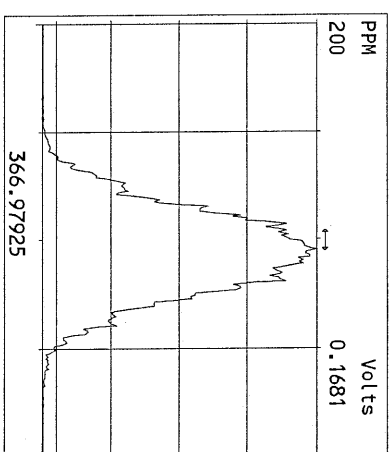
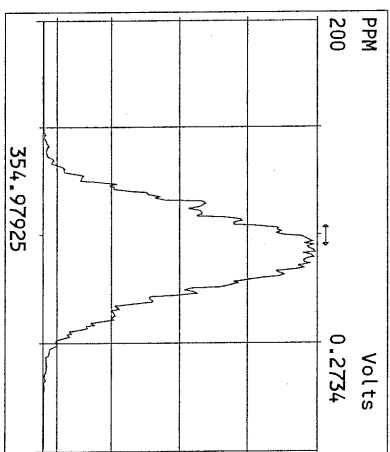
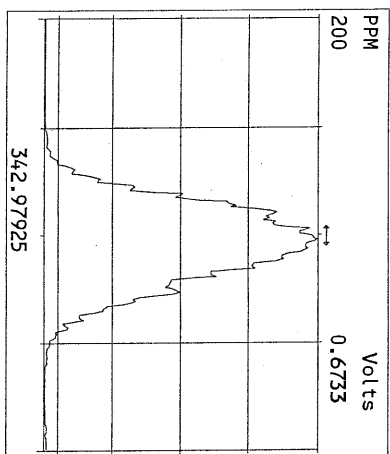
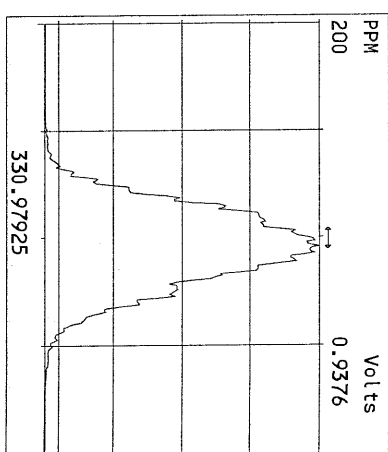
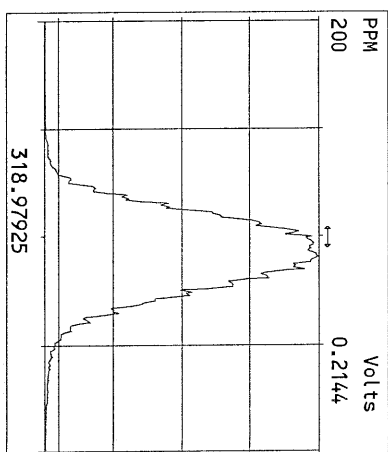
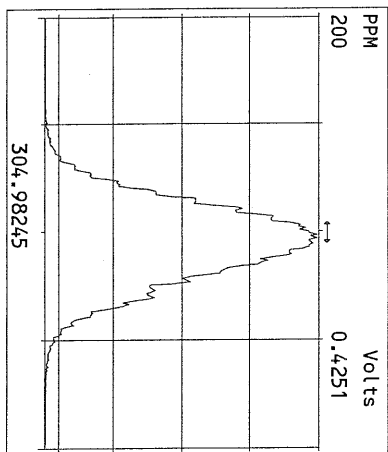
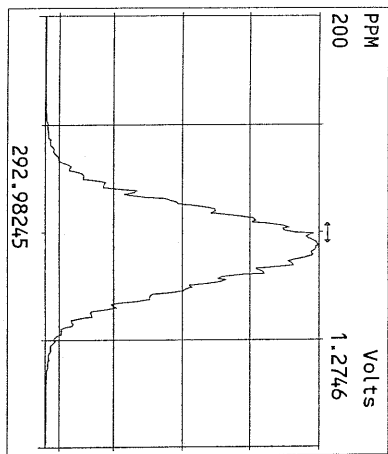
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Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory

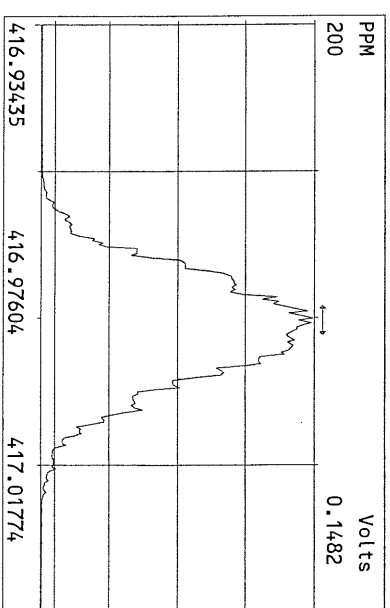
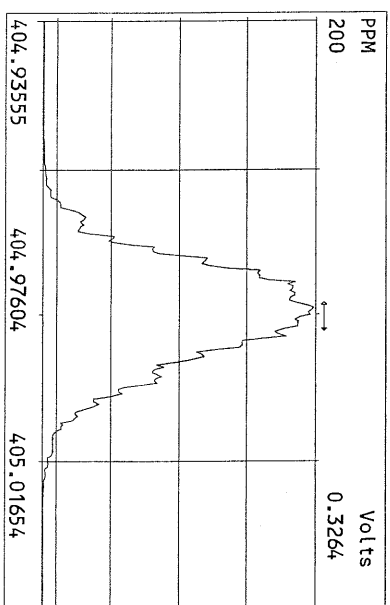
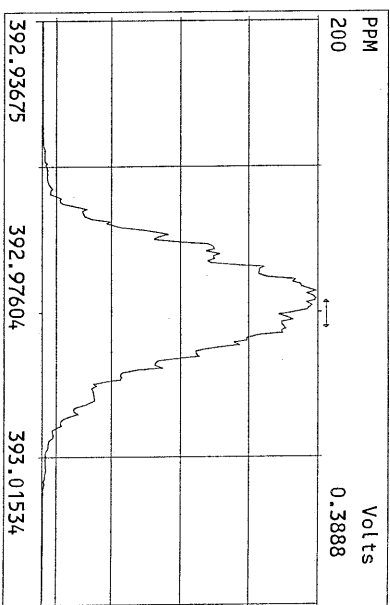
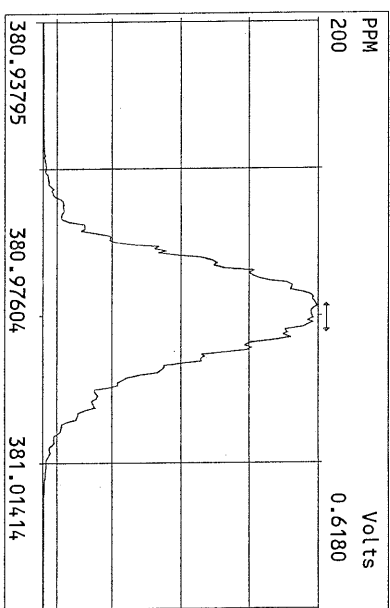
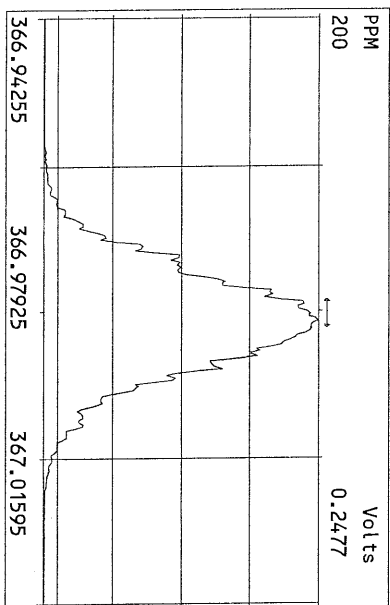
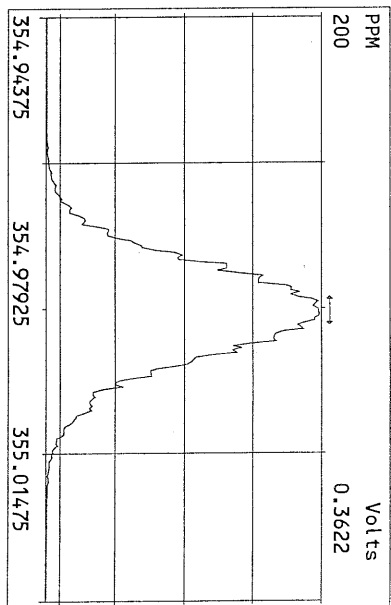
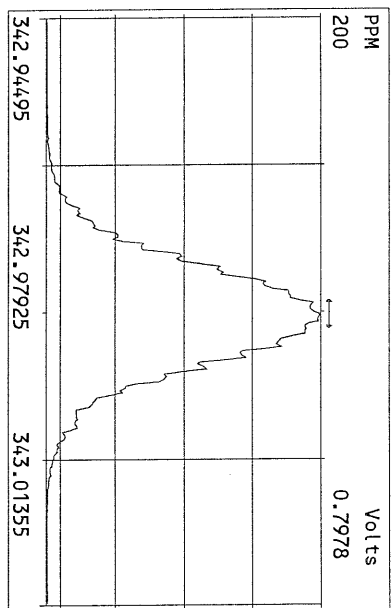
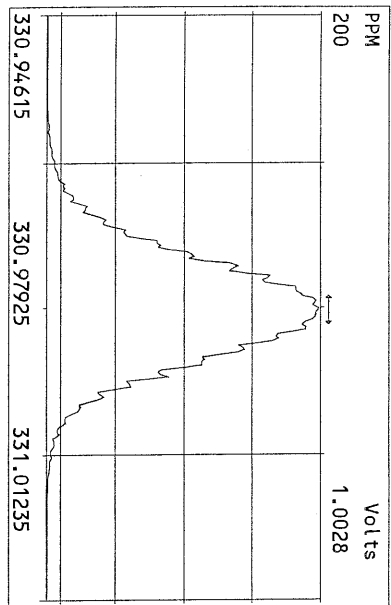


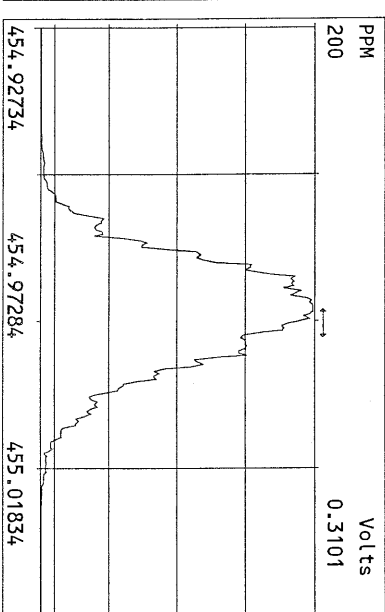
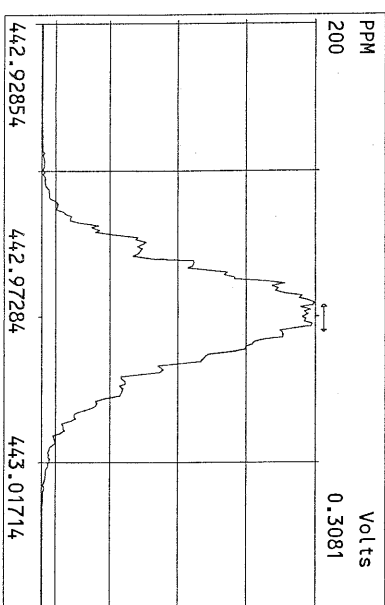
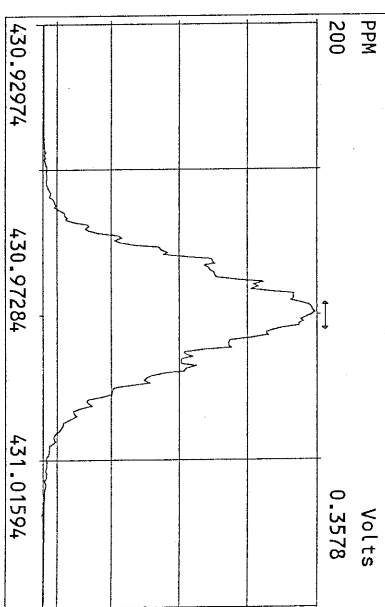
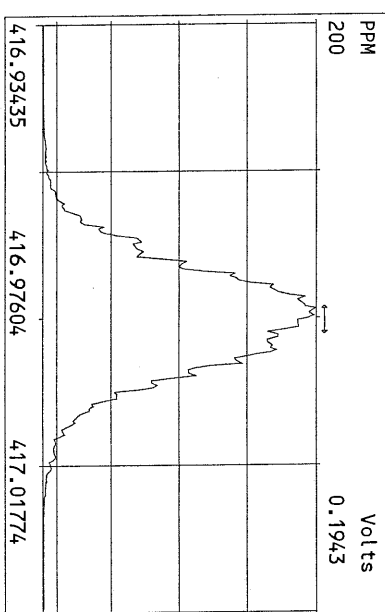
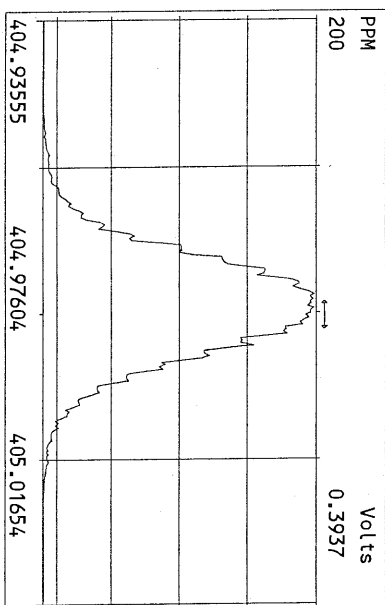
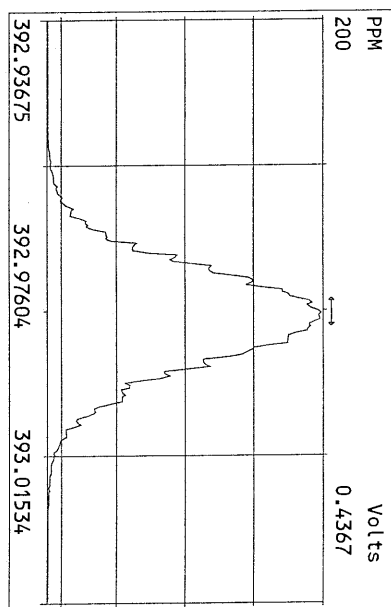
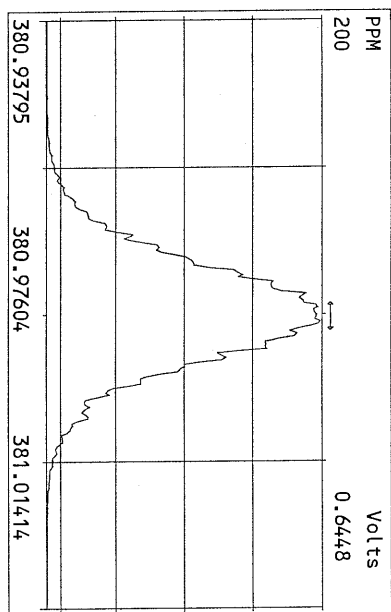
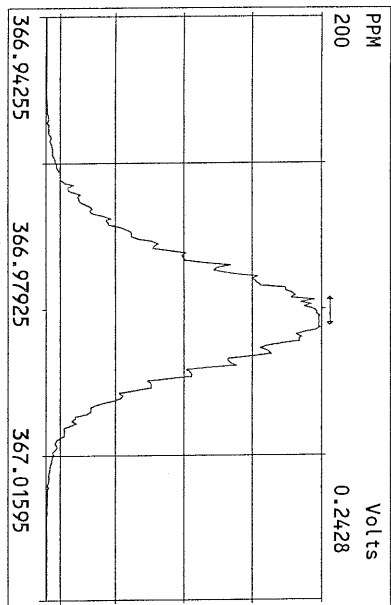
File:19MAYY11Z #1-348 Acq:19-MAY-2011 09:10:24 GC EI+ Voltage SIR Autospec-Ultima
513.6775 F:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z1 File Text:Frontier Analytical Laboratory

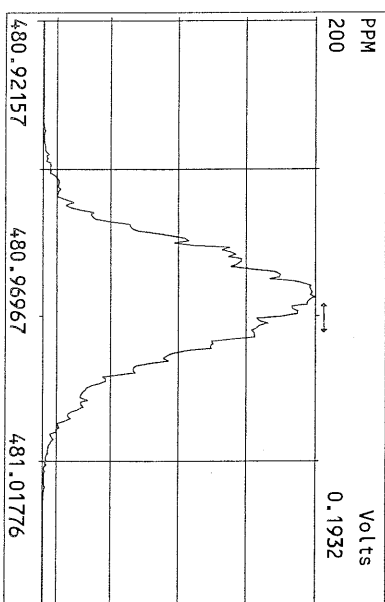
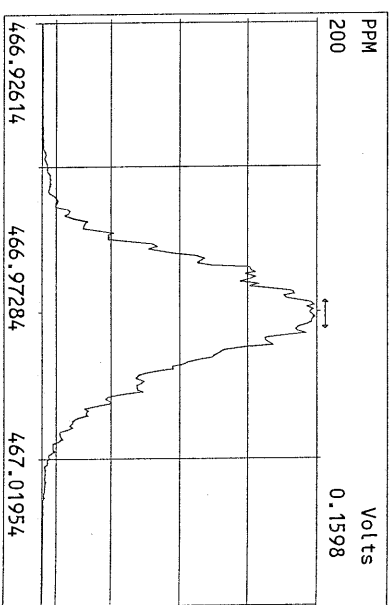
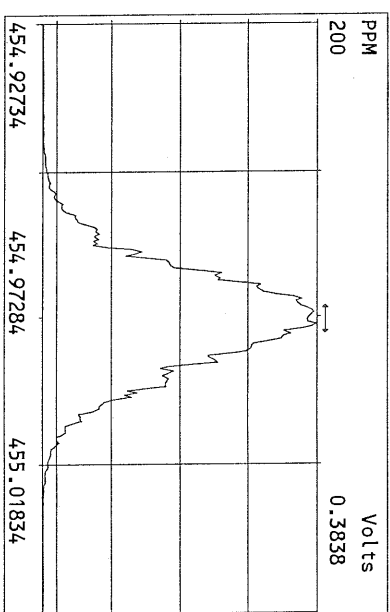
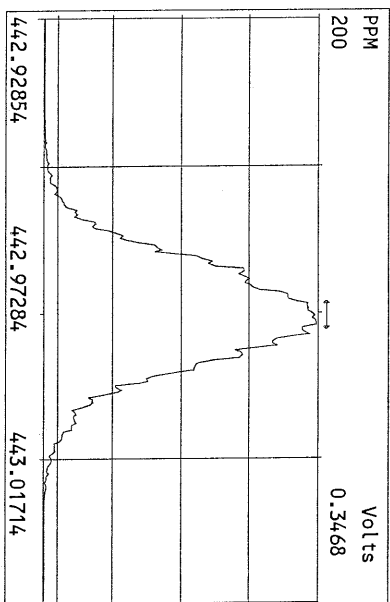
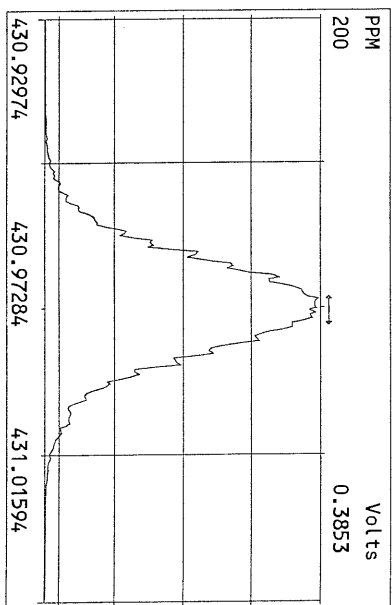
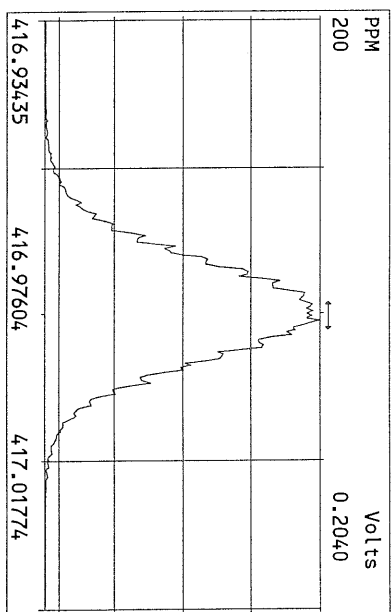
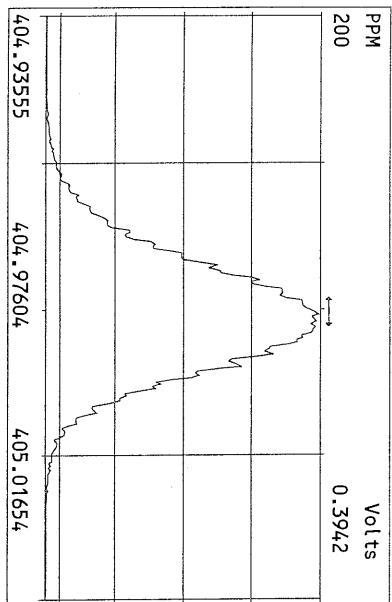


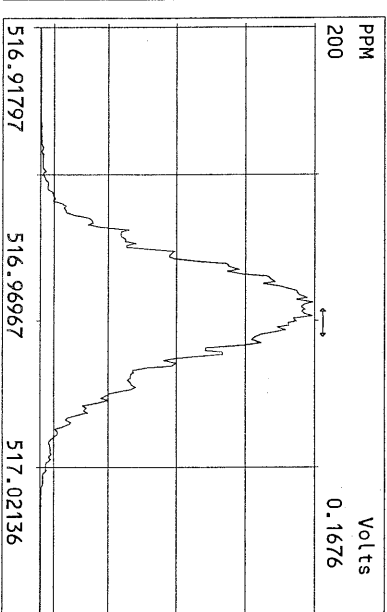
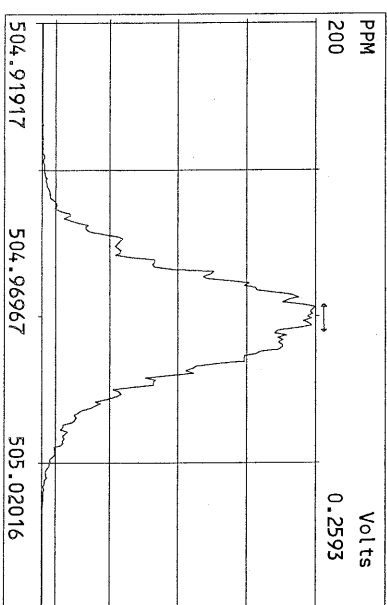
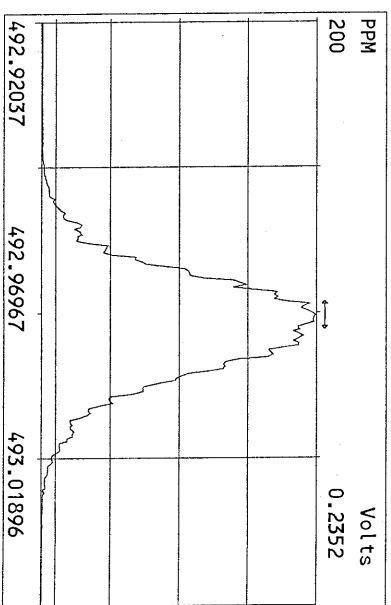
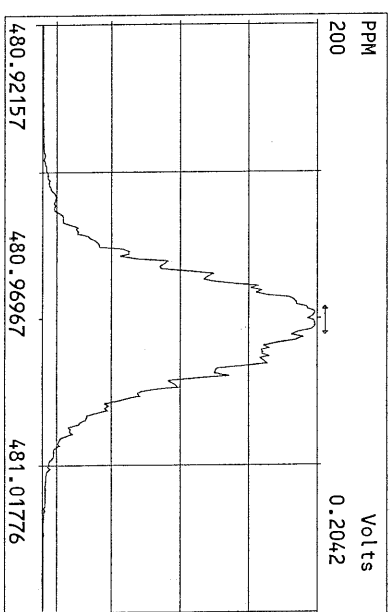
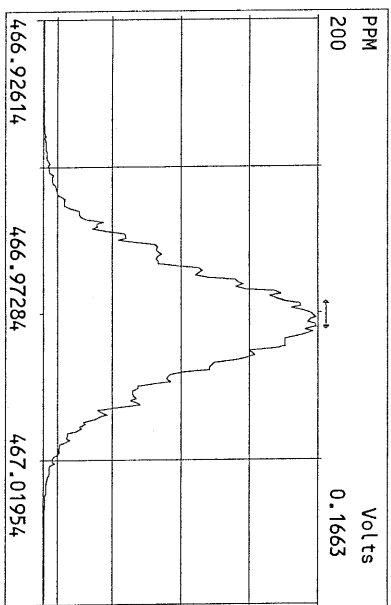
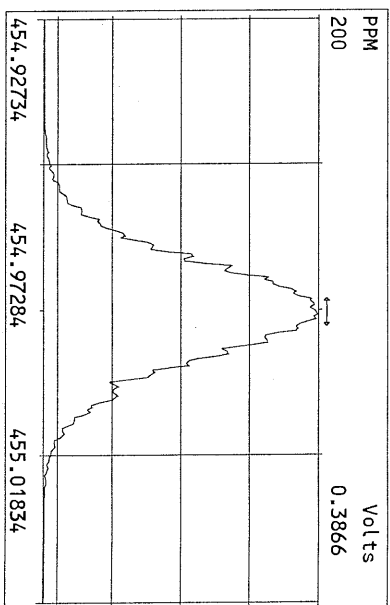
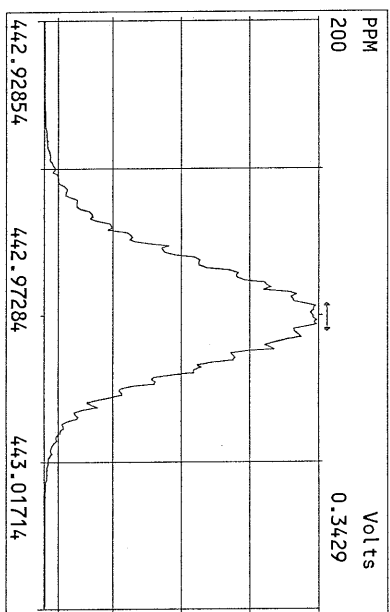
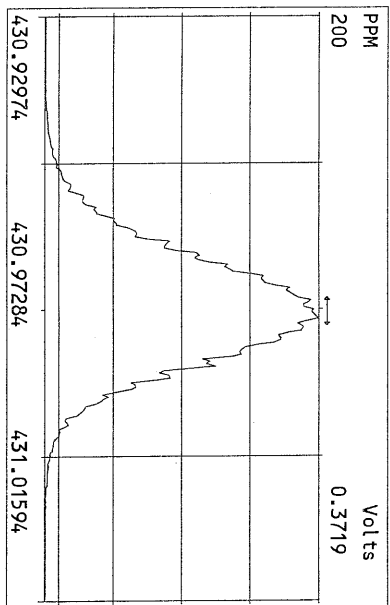
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USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

VER Data Filename: 19MAY11Z Sam:5

Analysis Date: 19-MAY-11 12:49:34

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	0.80	0.65-0.89	y	9.93	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.59	1.32-1.78	y	53.9	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	51.3	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.25	1.05-1.43	y	51.2	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.25	1.05-1.43	y	53.4	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	51.1	43.0 - 58.0
OCDD	M+2/M+4	0.88	0.76-1.02	y	98.5	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.78	0.65-0.89	y	9.91	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.55	1.32-1.78	y	51.3	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.54	1.32-1.78	y	51.1	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	50.7	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	51.8	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.23	1.05-1.43	y	51.2	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	51.2	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	51.1	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.04	0.88-1.20	y	50.7	43.0 - 58.0
OCDF	M+2/M+4	0.91	0.76-1.02	y	107	63.0 - 159

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

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

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

Analyst: JDate: 5/19/11

USEPA - ITD

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 5/17/11

Instrument ID: FAL4

GC Column ID: DB5

VER Data Filename: 19MAY11Z Sam:5

Analysis Date: 19-MAY-11 12:49:34

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	0.80	0.65-0.89	y	103	82.0 - 121
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.60	1.32-1.78	y	105	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.28	1.05-1.43	y	107	85.0 - 117
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.26	1.05-1.43	y	97.4	85.0 - 118
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.08	0.88-1.20	y	111	72.0 - 138
13C-OCDD	M+2/M+4	0.91	0.76-1.02	y	245	96.0 - 415
13C-2,3,7,8-TCDF	M/M+2	0.79	0.65-0.89	y	104	71.0 - 140
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.56	1.32-1.78	y	108	76.0 - 130
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.58	1.32-1.78	y	108	77.0 - 130
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	115	76.0 - 131
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.52	0.43-0.59	y	107	70.0 - 143
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.51	0.43-0.59	y	110	73.0 - 137
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.52	0.43-0.59	y	113	74.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.45	0.37-0.51	y	116	78.0 - 129
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.45	0.37-0.51	y	121	77.0 - 129
13C-OCDF	M+2/M+4	0.90	0.76-1.02	y	228	96.0 - 415
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.97	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: 5/19/11

Frontier Analytical Laboratory - Acquisition Log

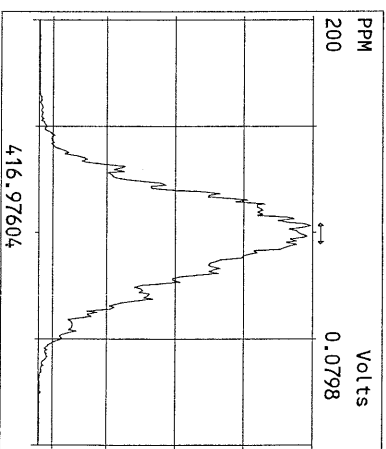
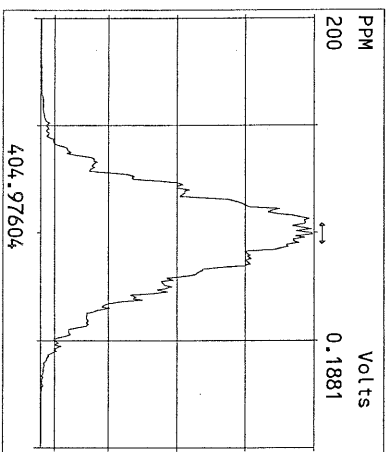
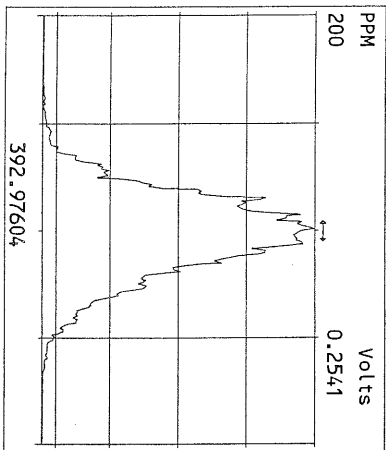
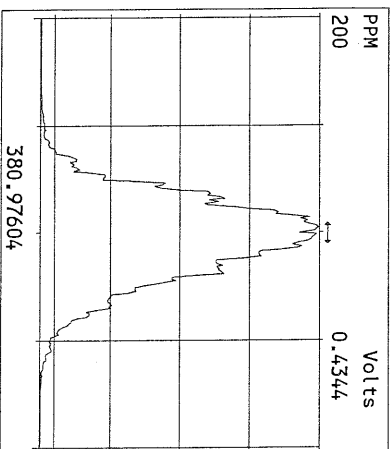
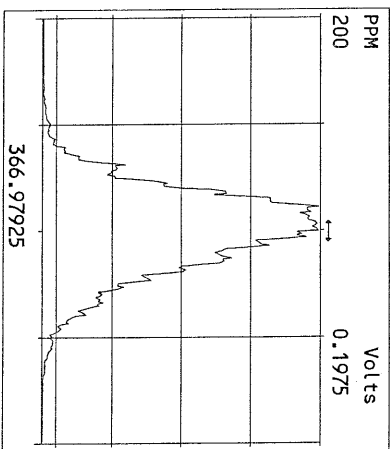
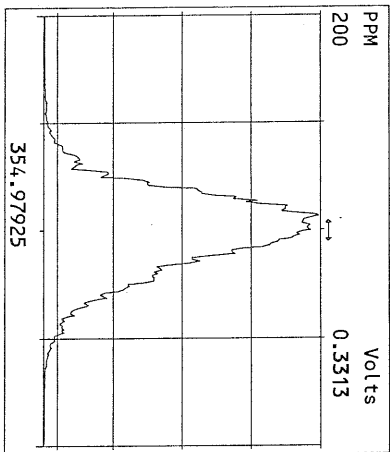
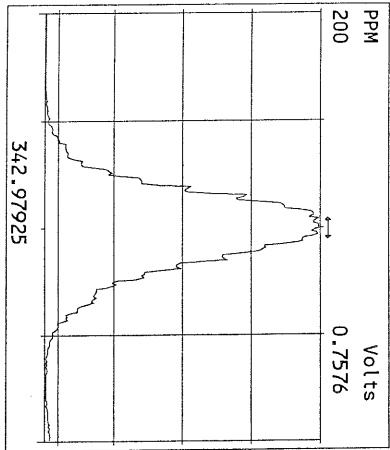
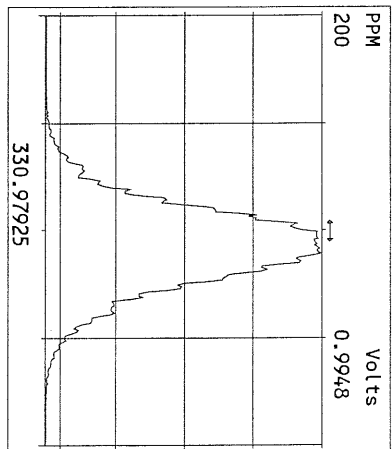
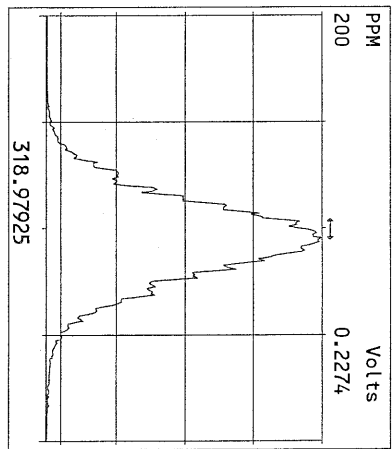
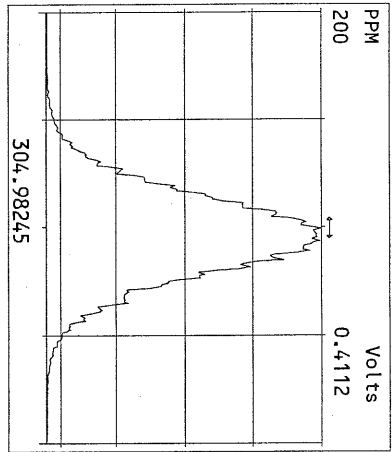
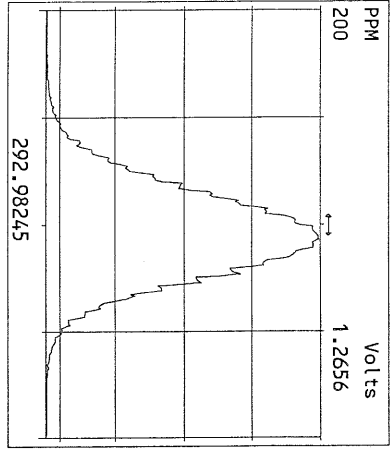
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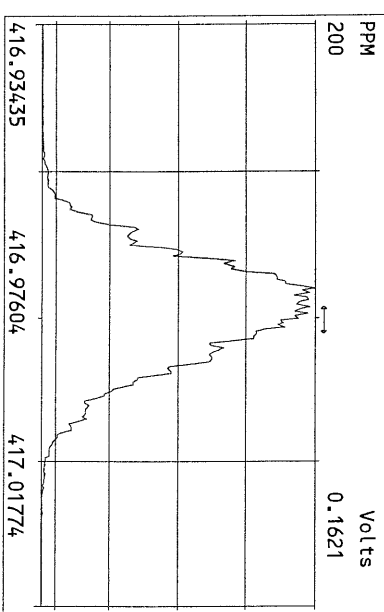
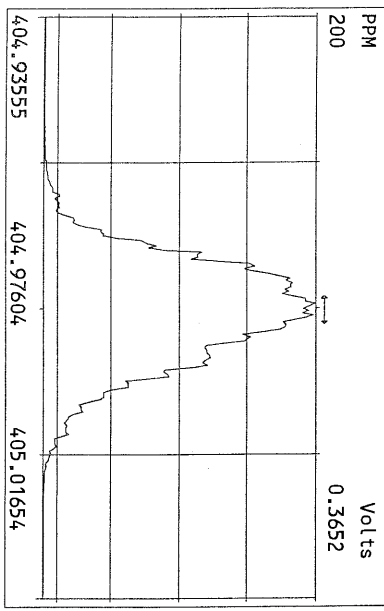
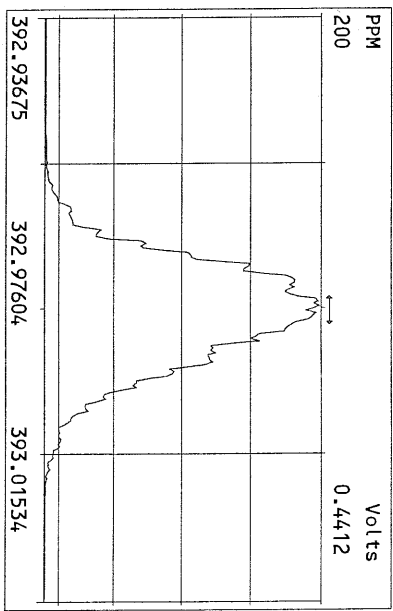
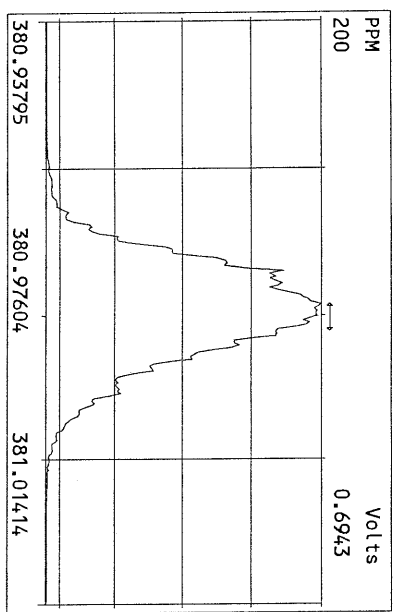
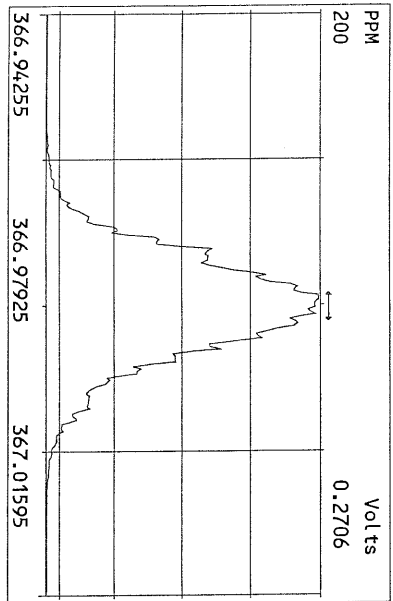
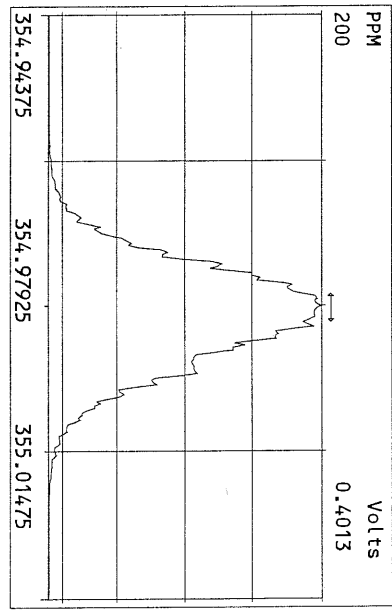
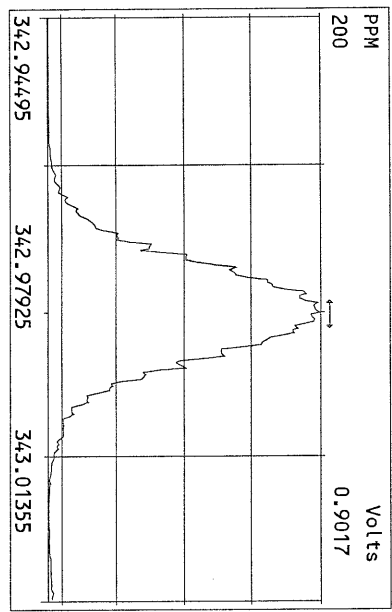
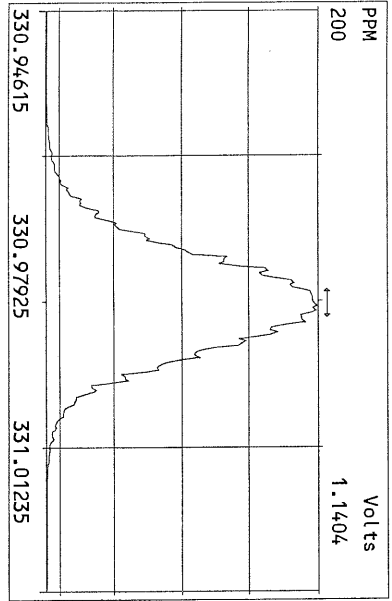
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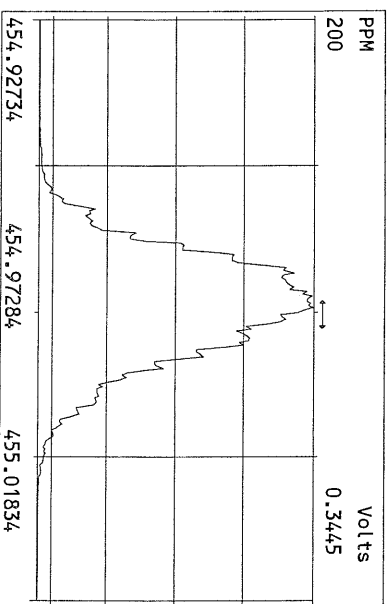
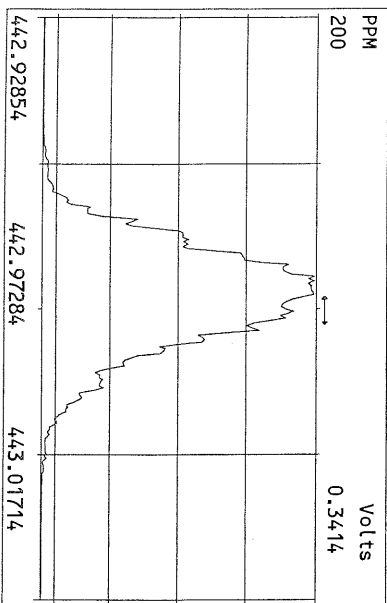
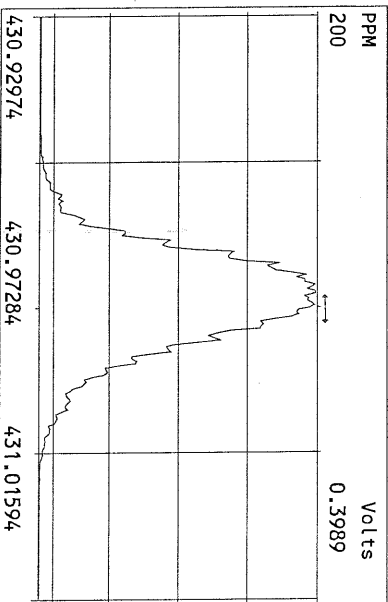
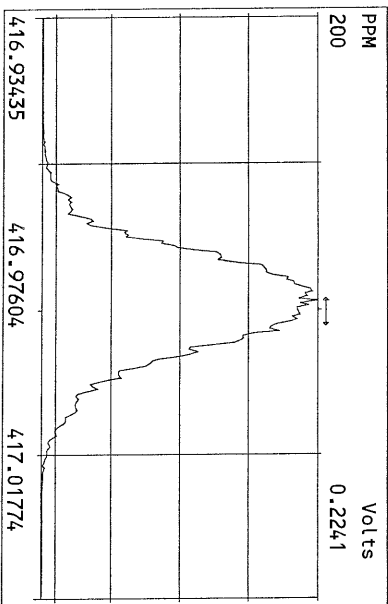
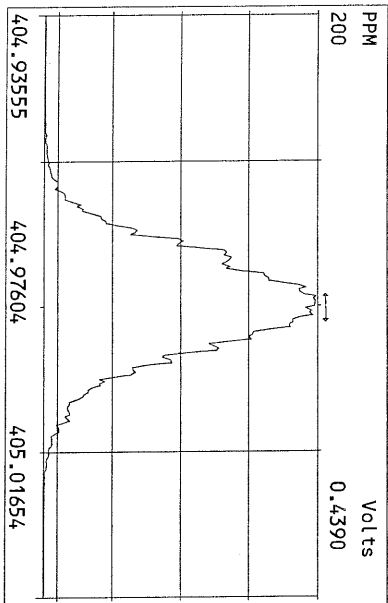
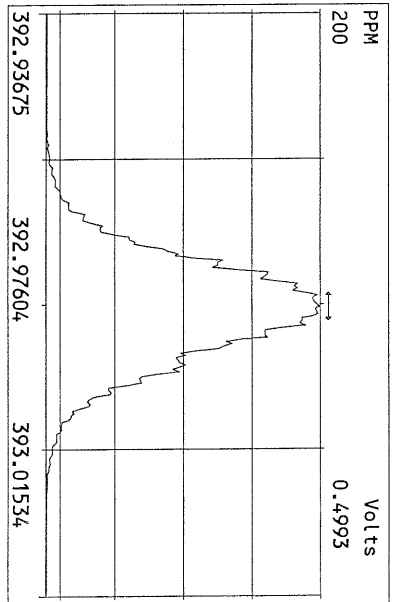
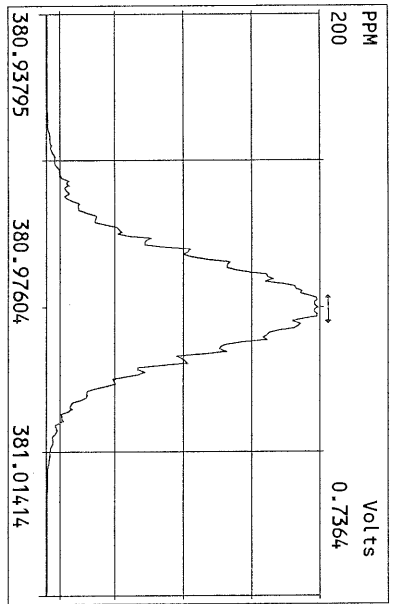
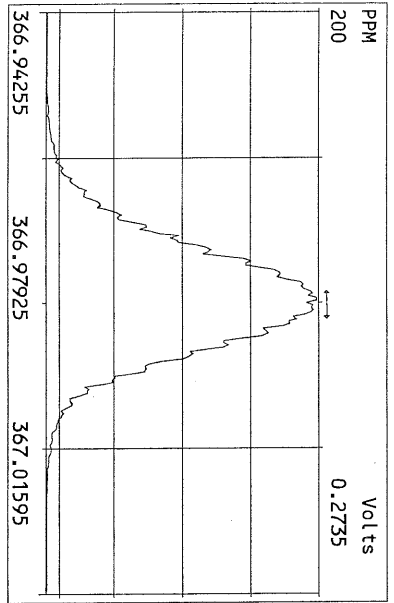
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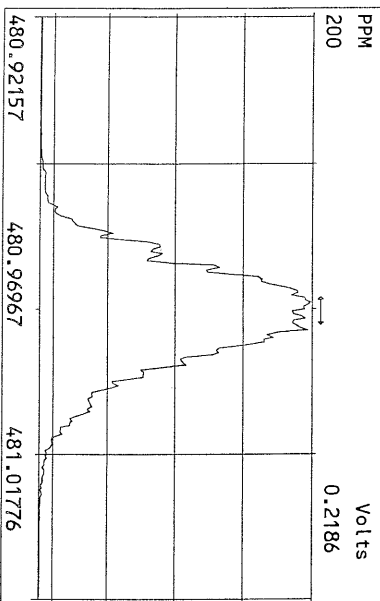
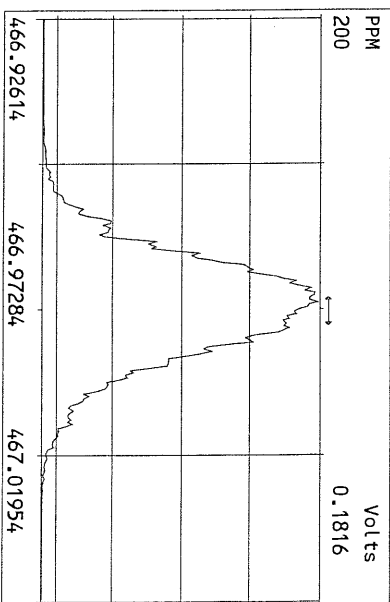
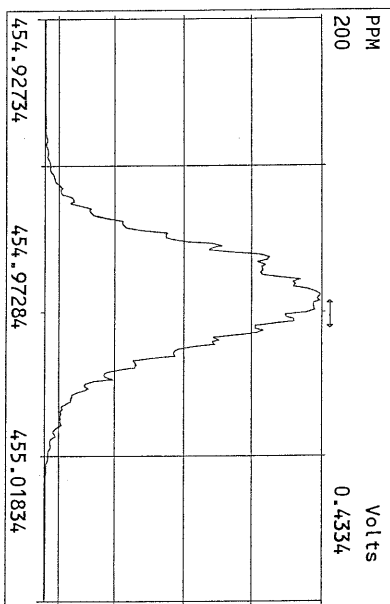
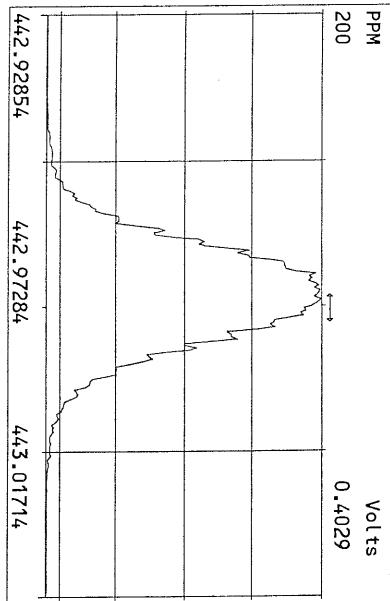
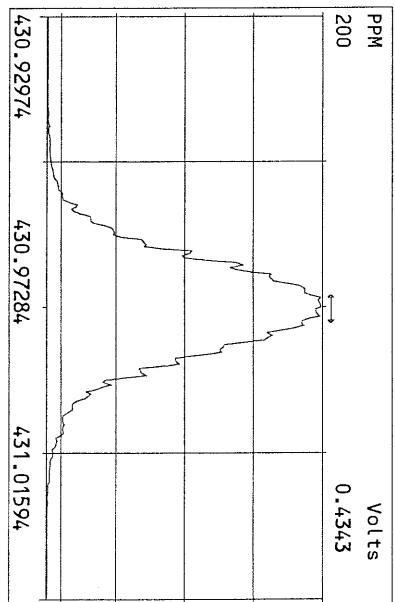
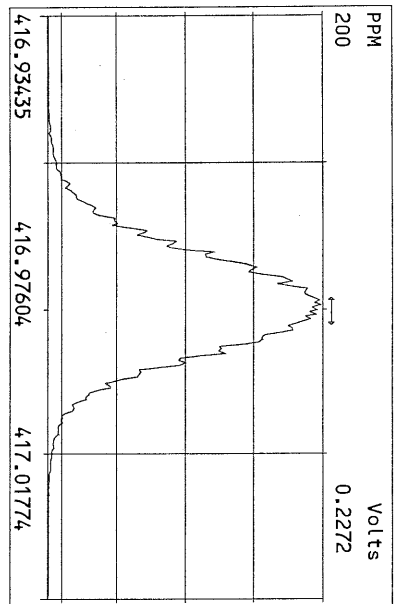
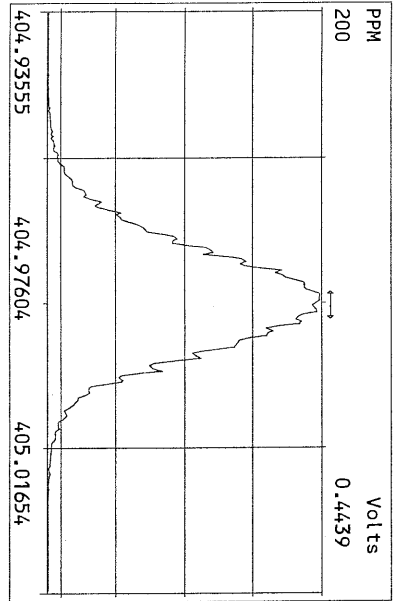
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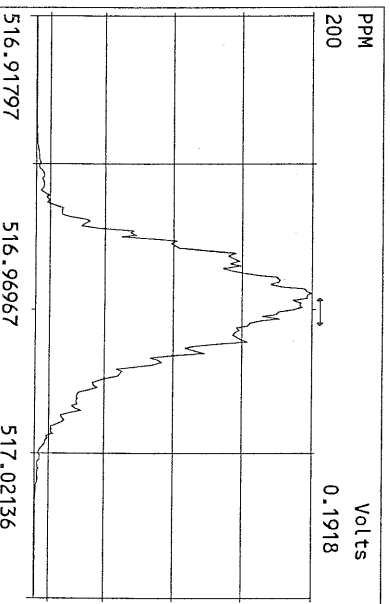
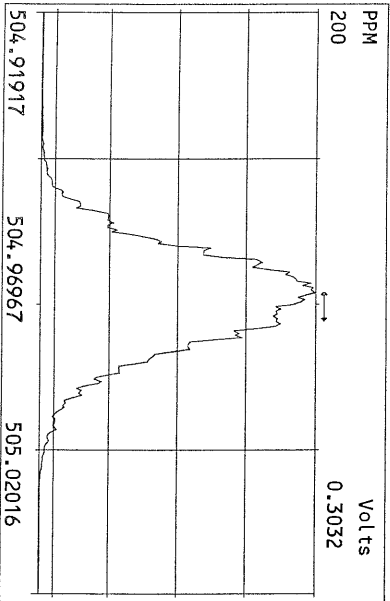
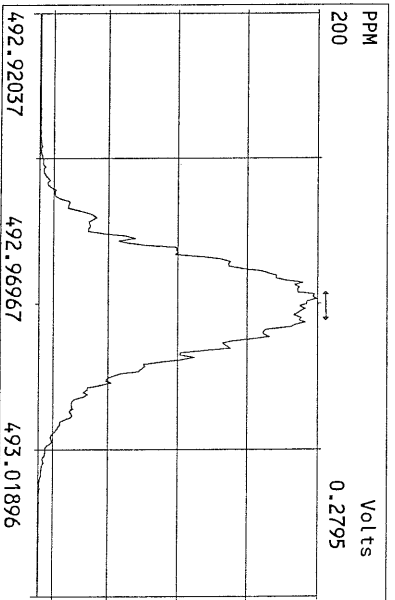
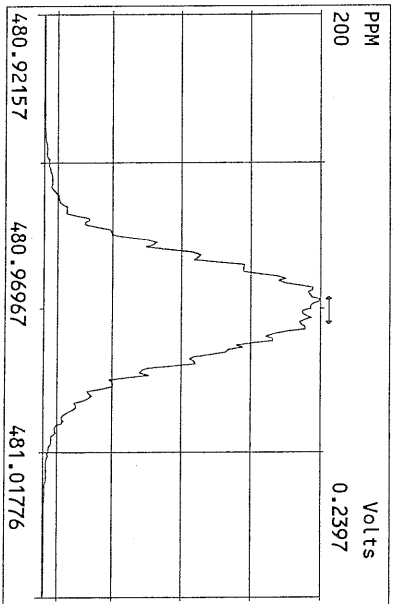
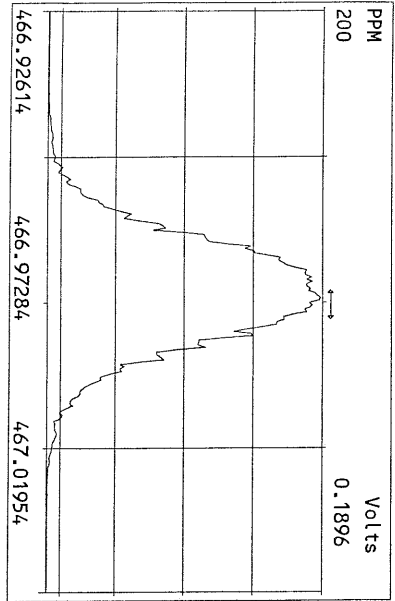
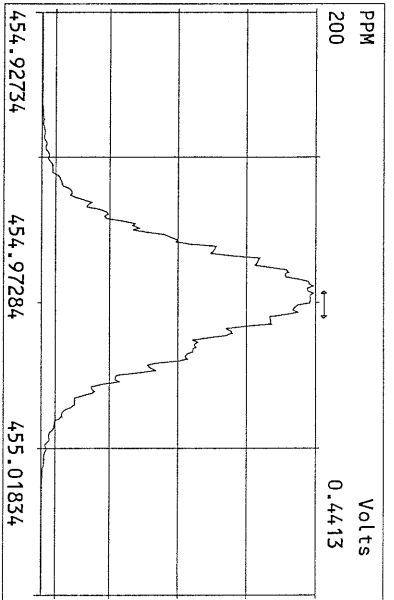
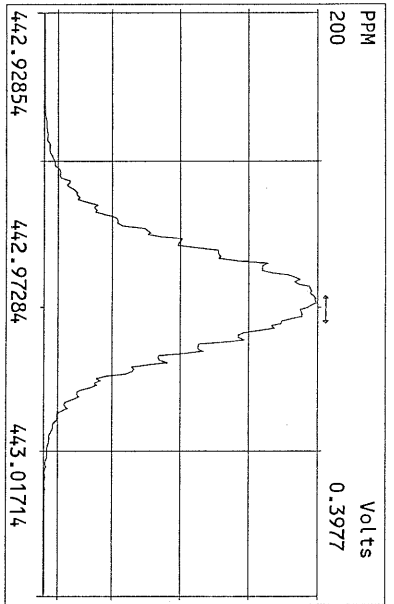
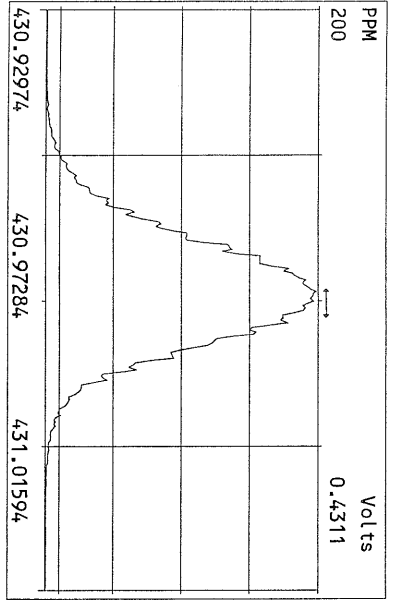
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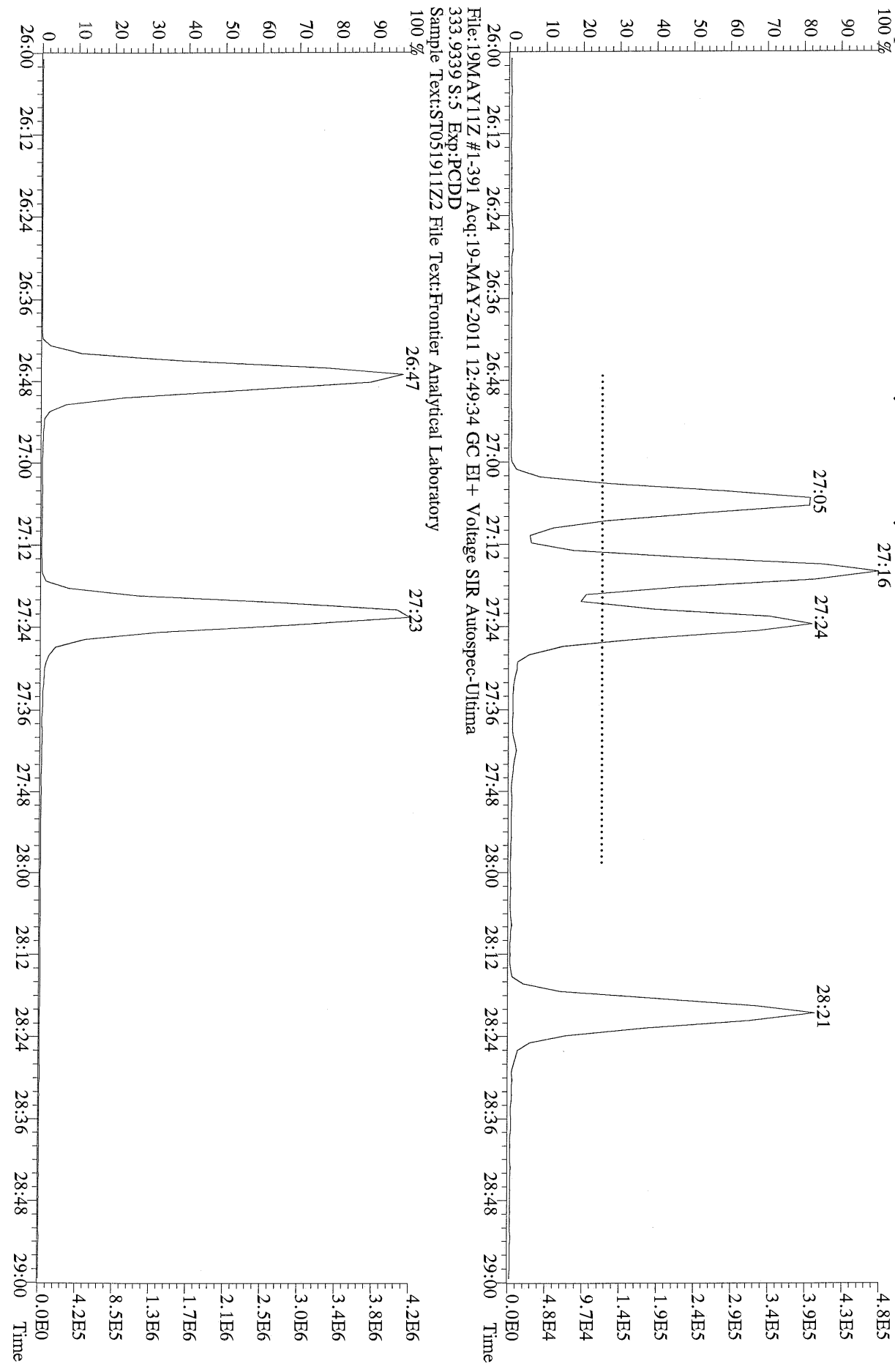




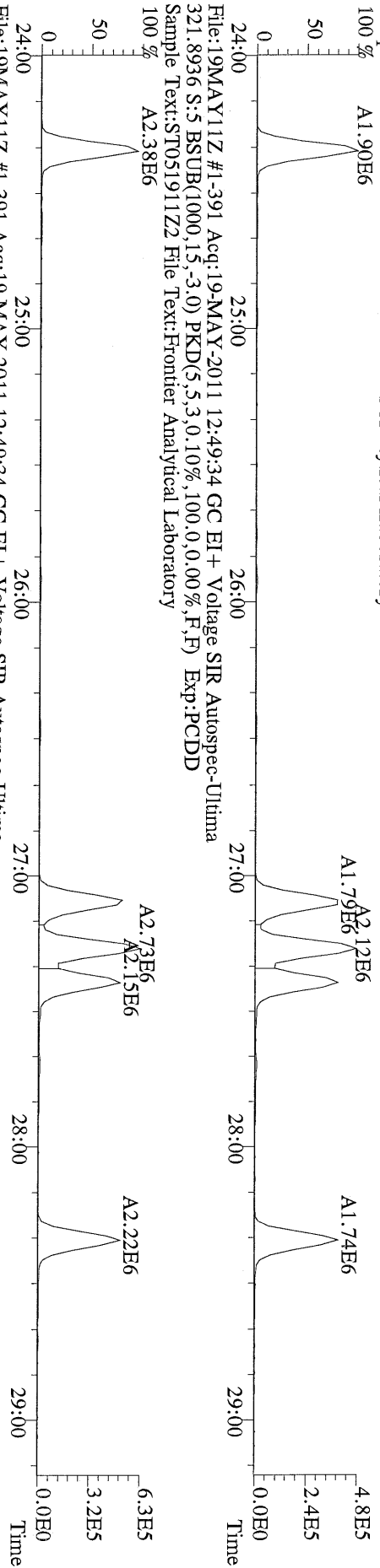




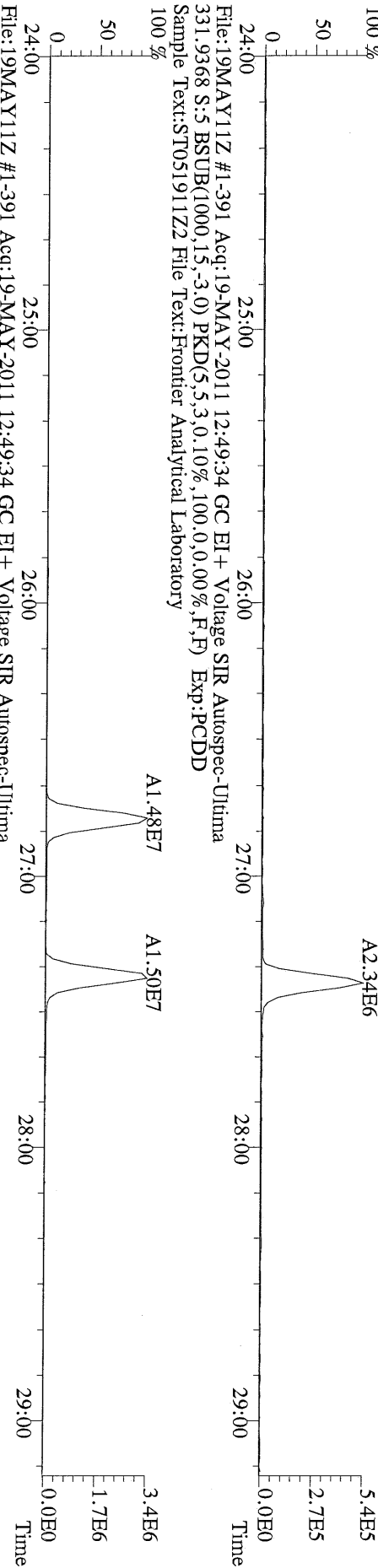
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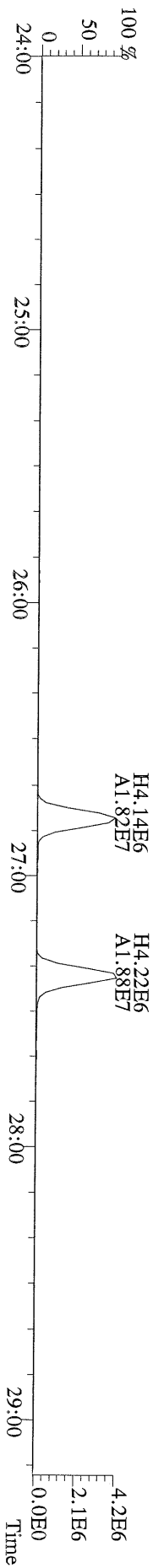
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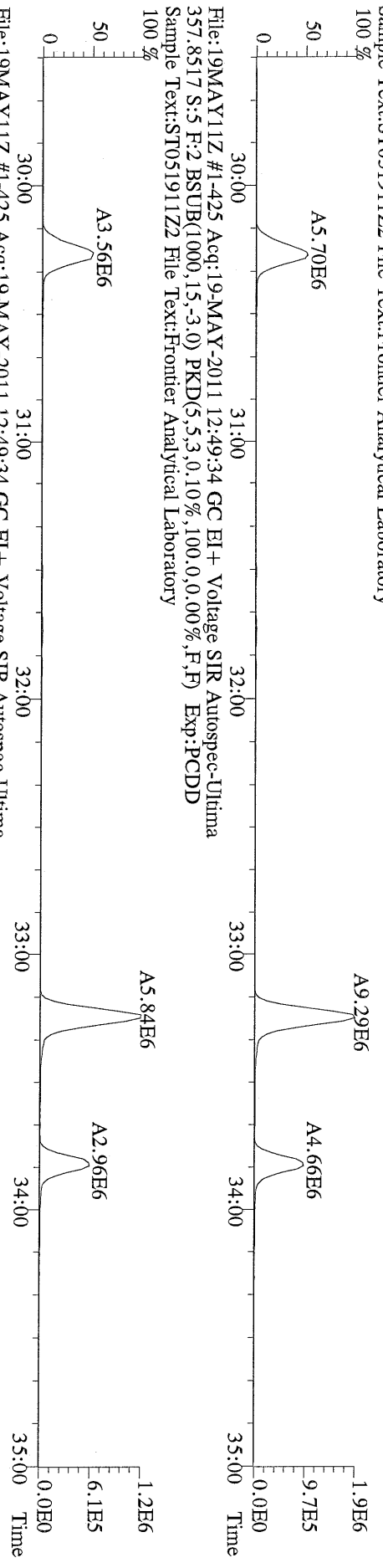
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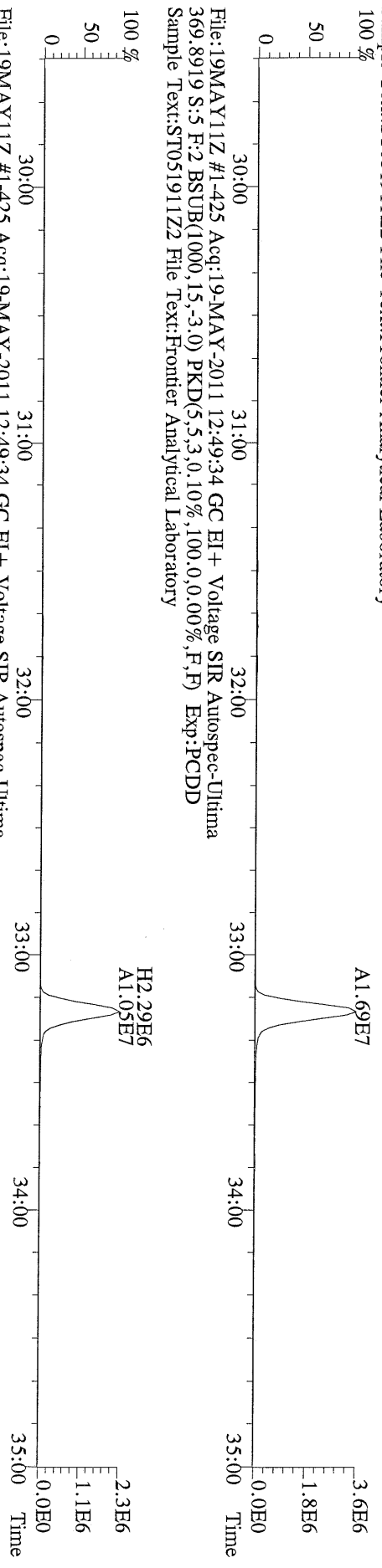
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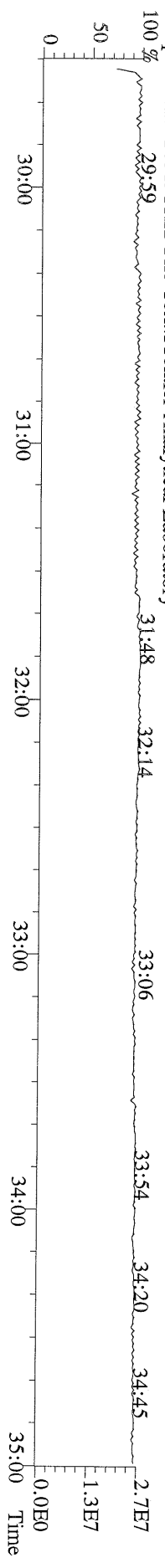
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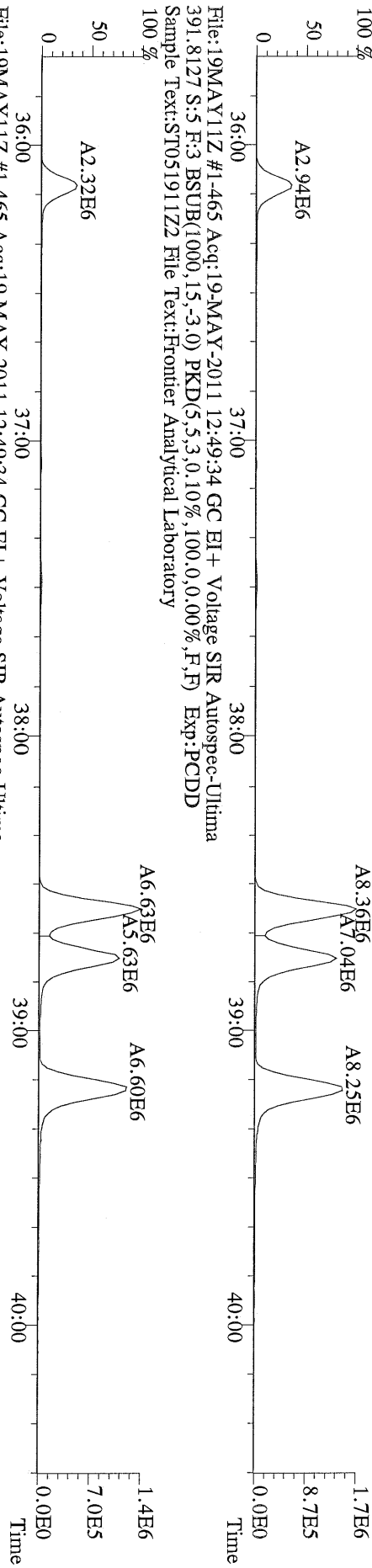
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367.8949 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



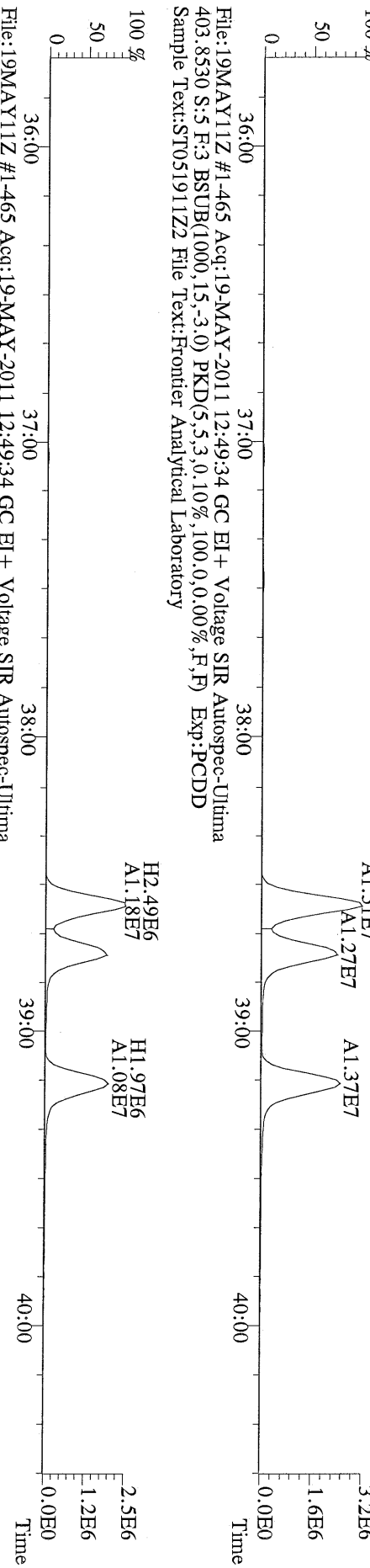
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366.9792 S:5 F:2 Exp:PCDD
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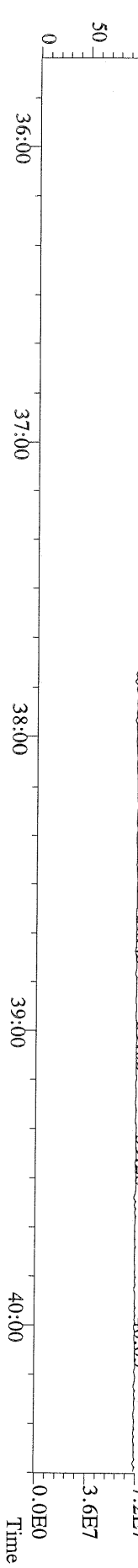
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389.8156 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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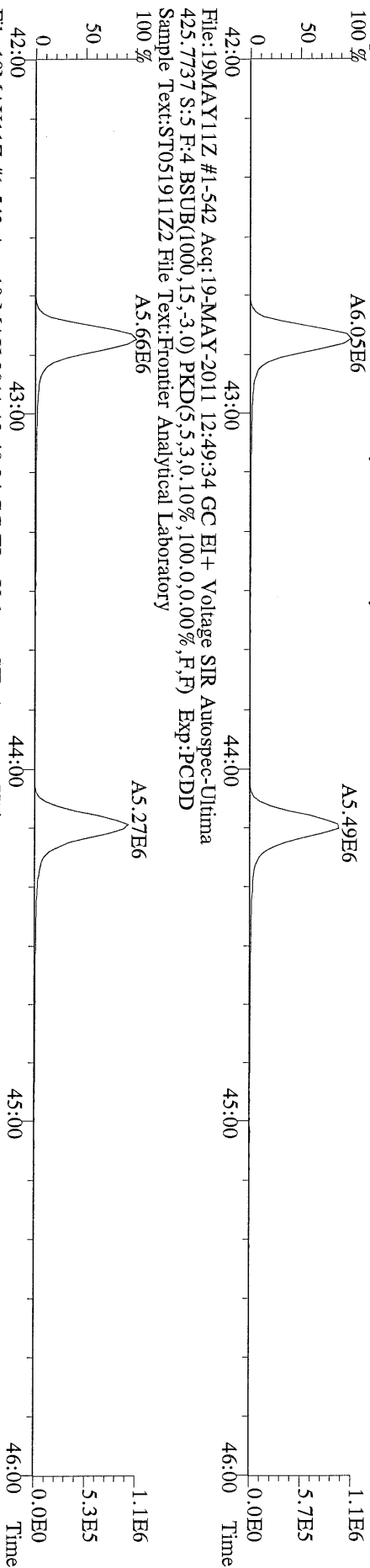
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401.8559 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



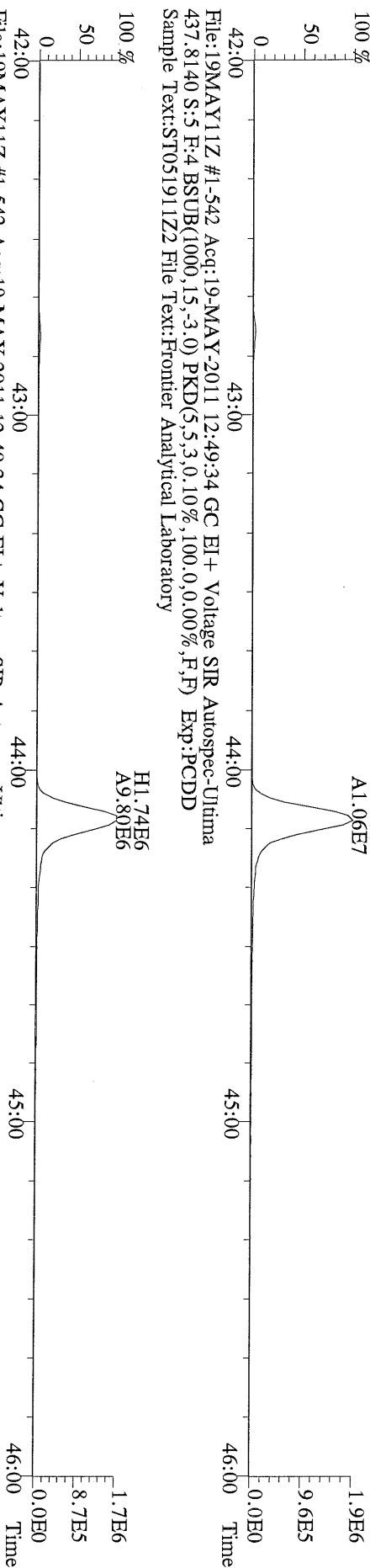
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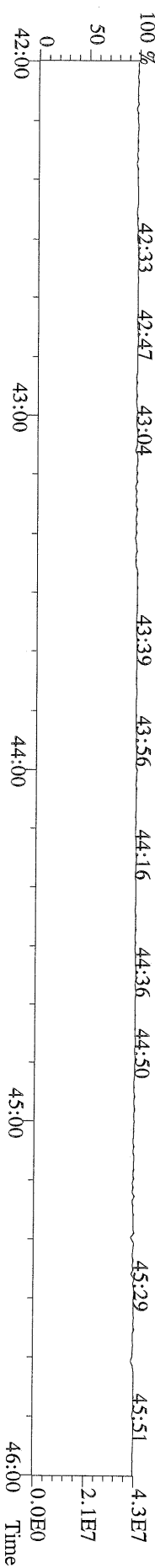
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423.7767 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



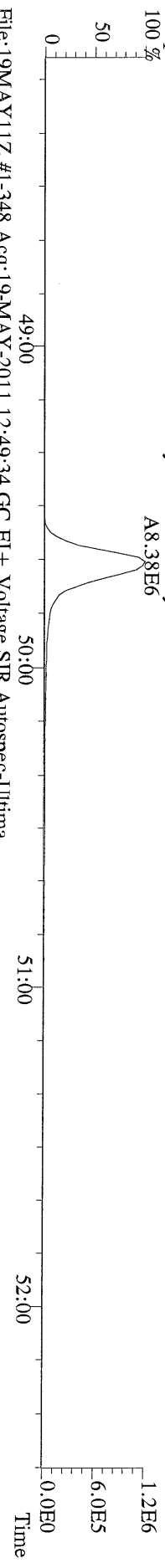
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Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



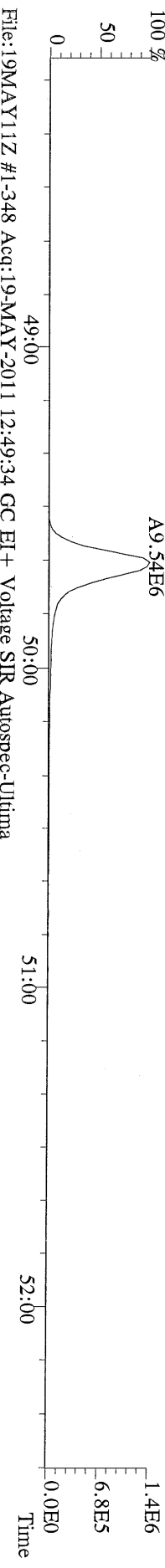
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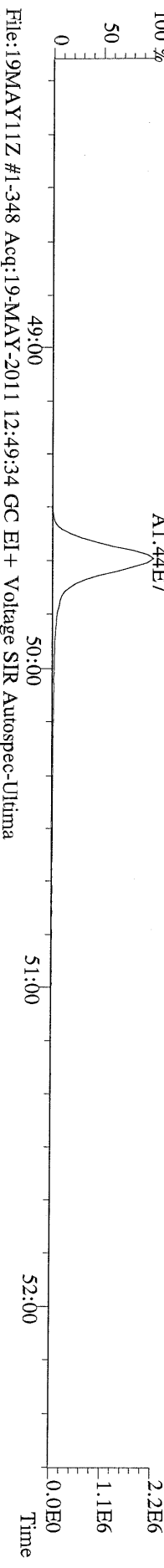
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457.7377 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



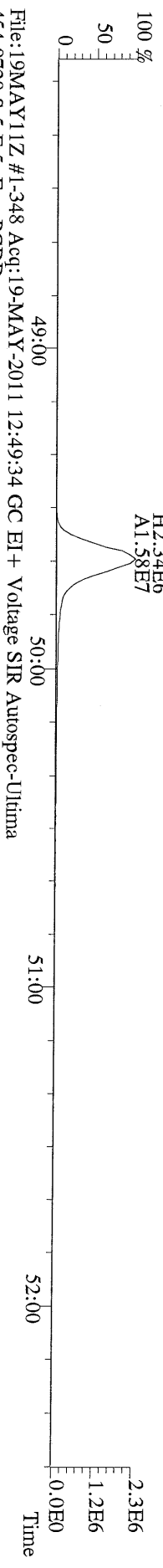
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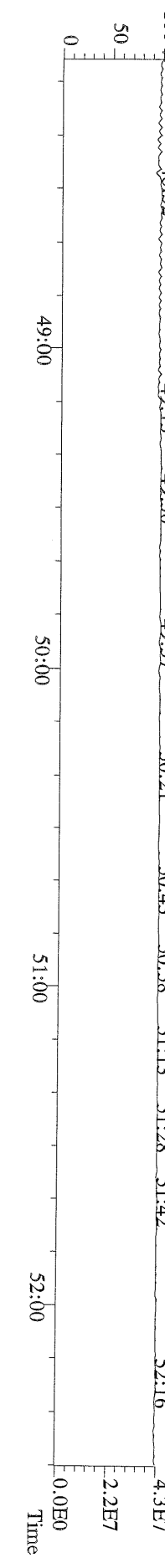
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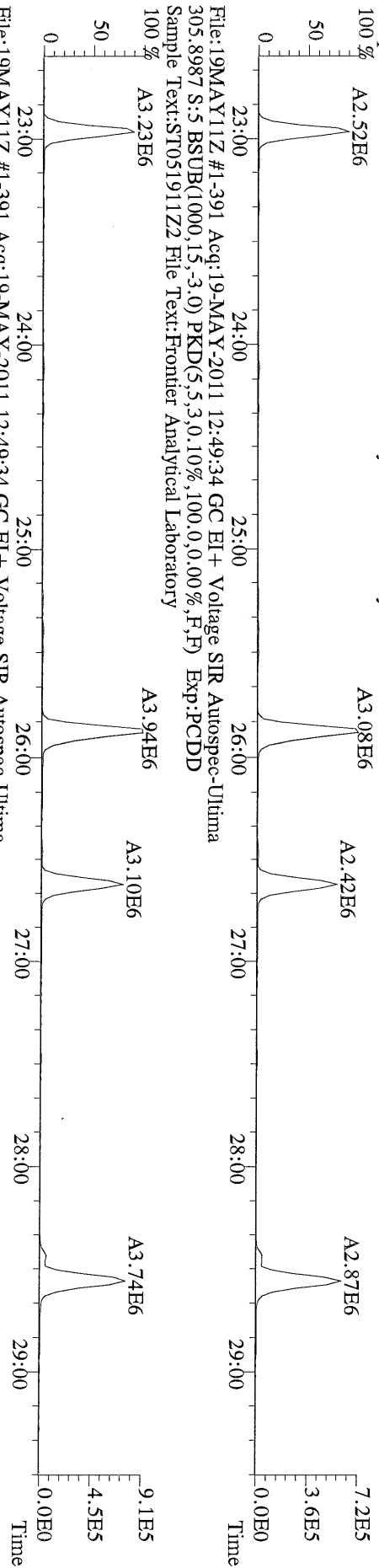
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Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



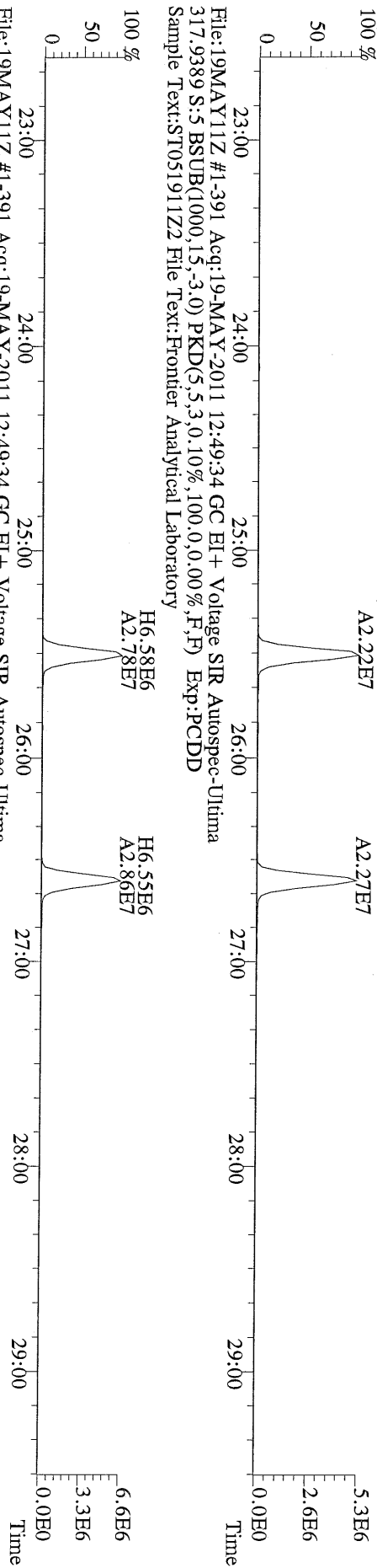
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Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



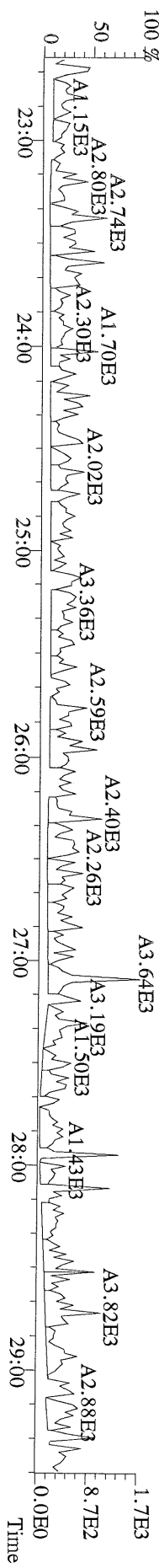
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303.9016 S:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



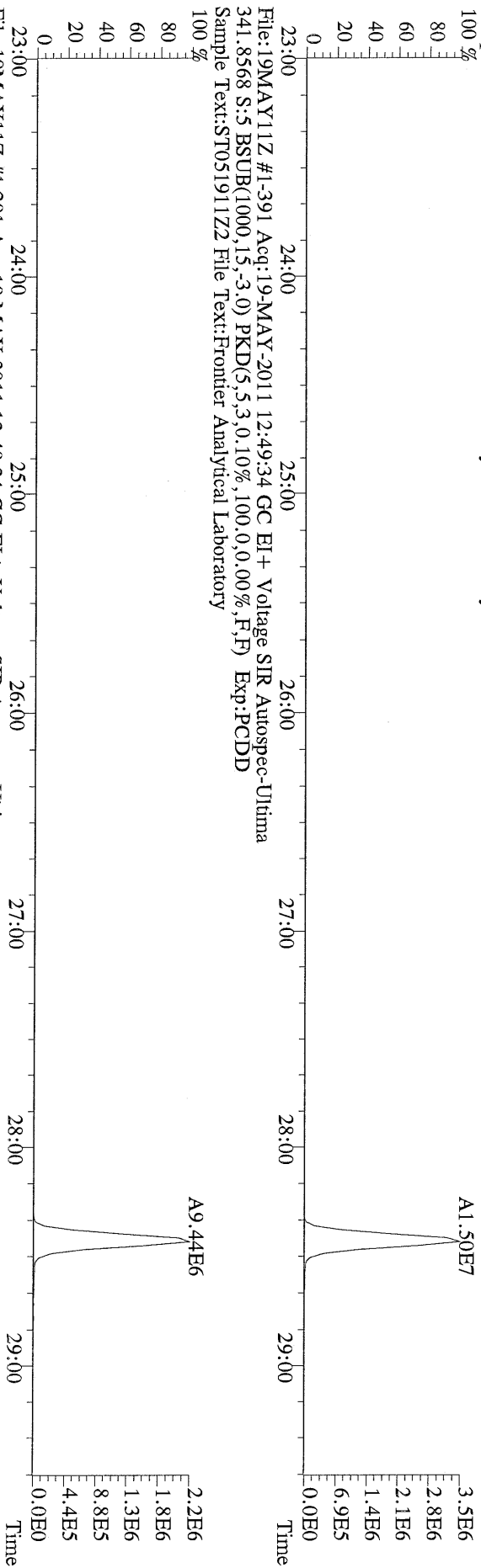
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315.9419 S:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



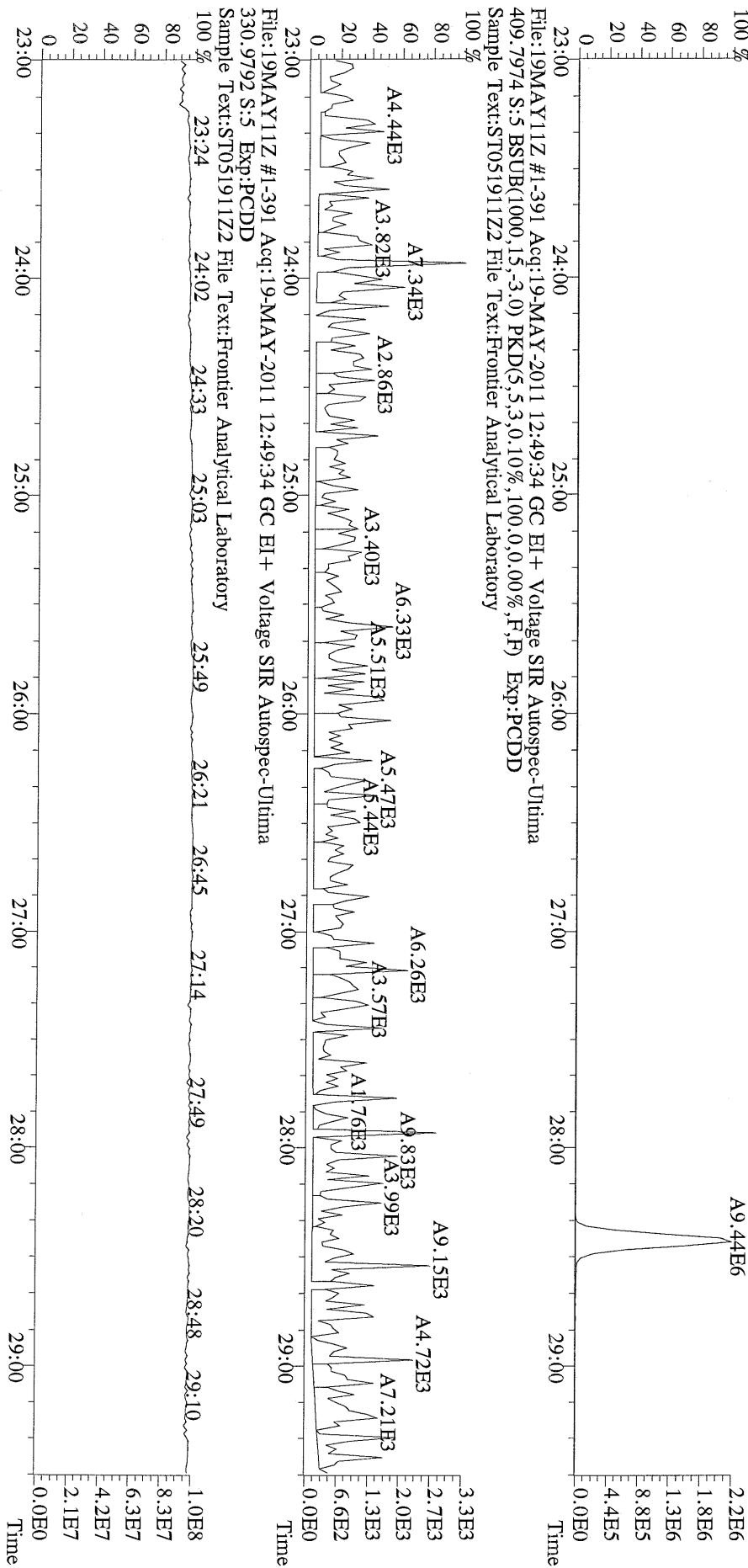
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Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



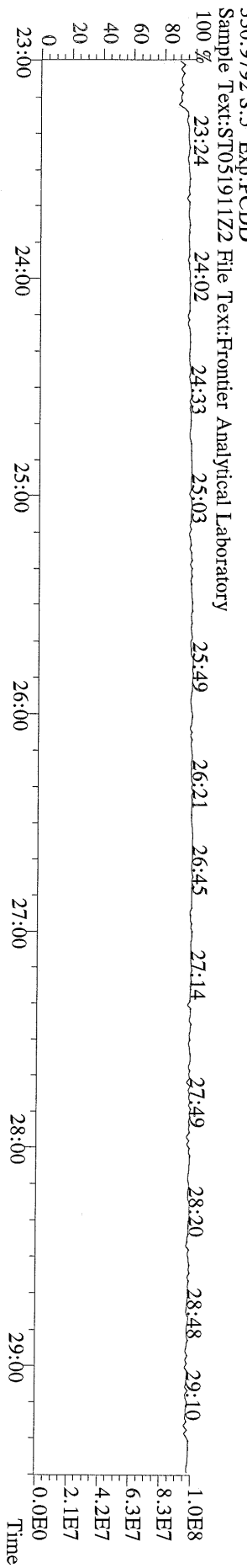
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 339.8597 S:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



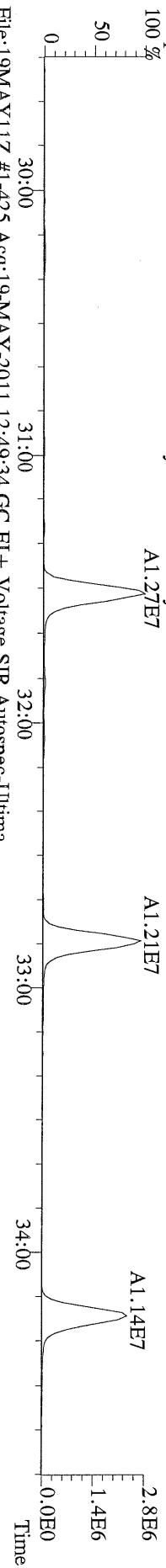
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 341.8568 S:5 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



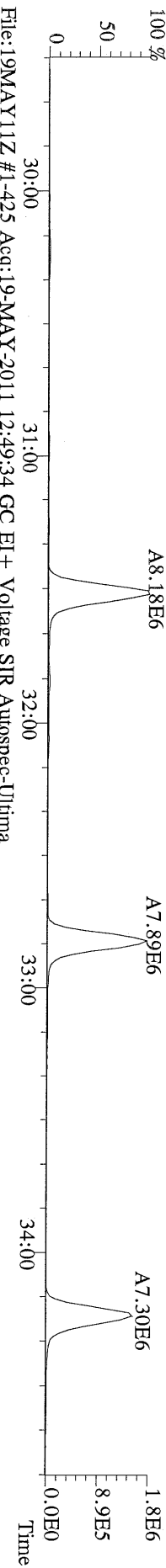
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 330.9792 S:5 Exp:PCDD
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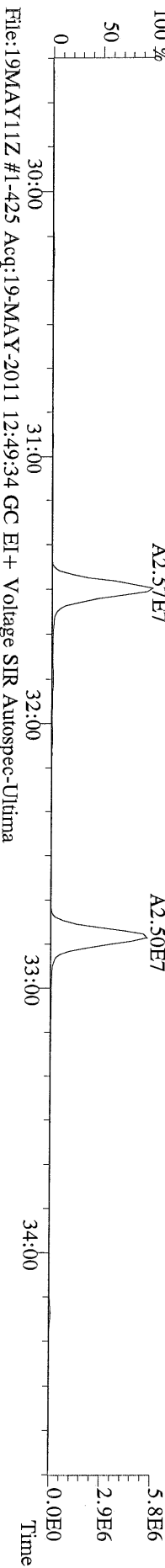
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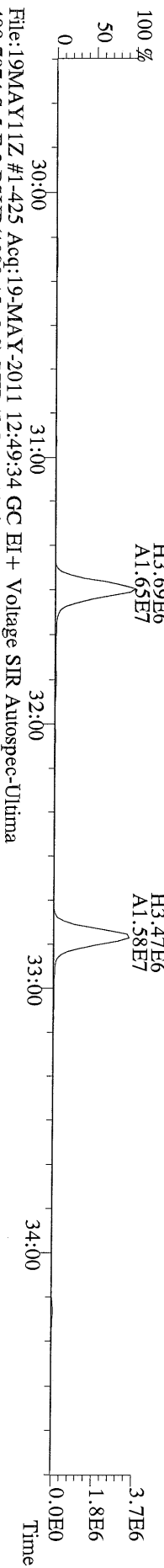
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 Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



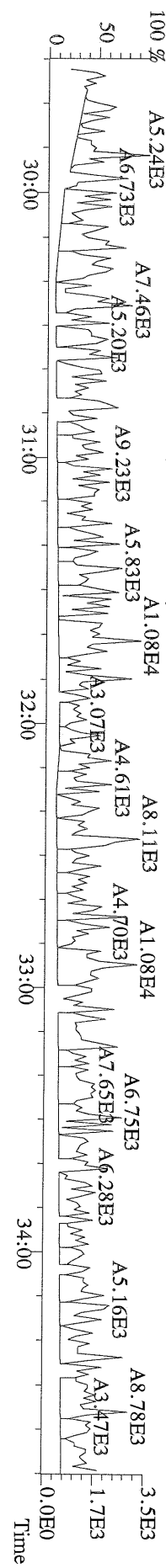
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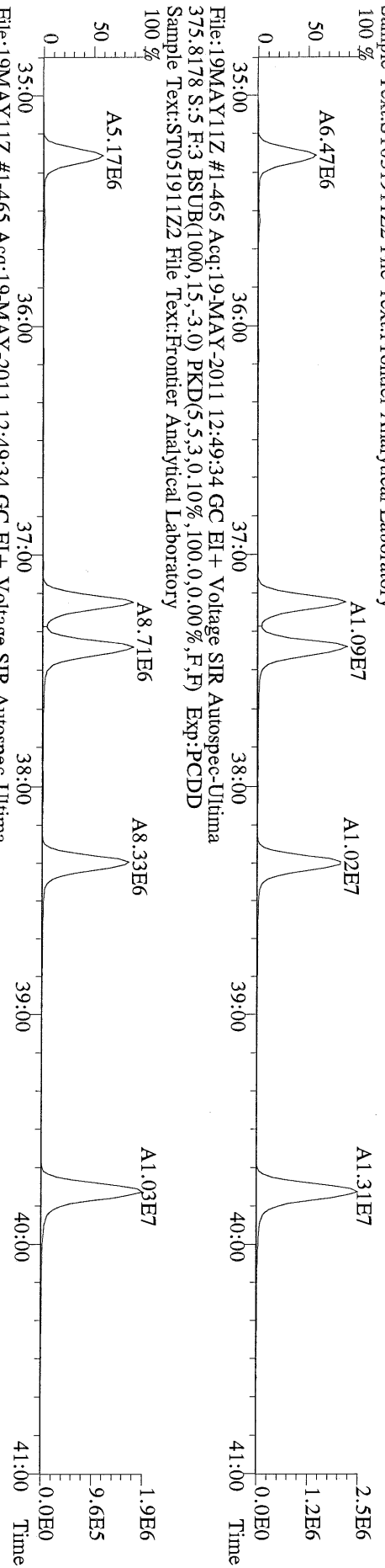
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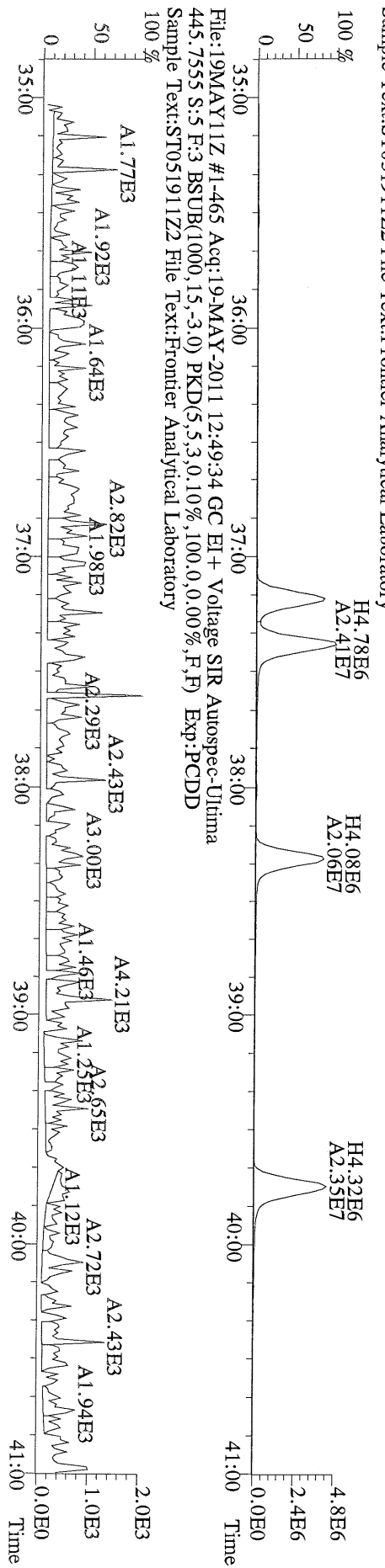
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 409.7974 S:5 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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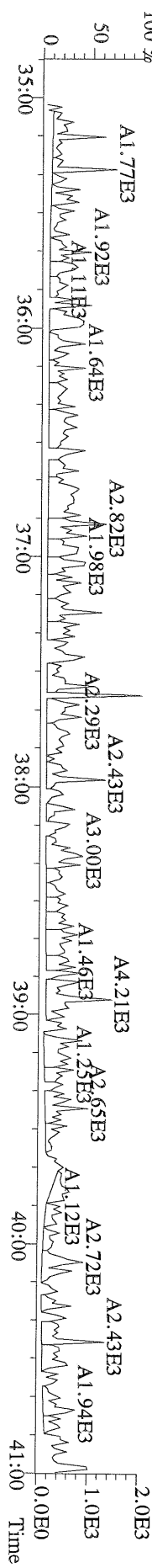
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373.8207 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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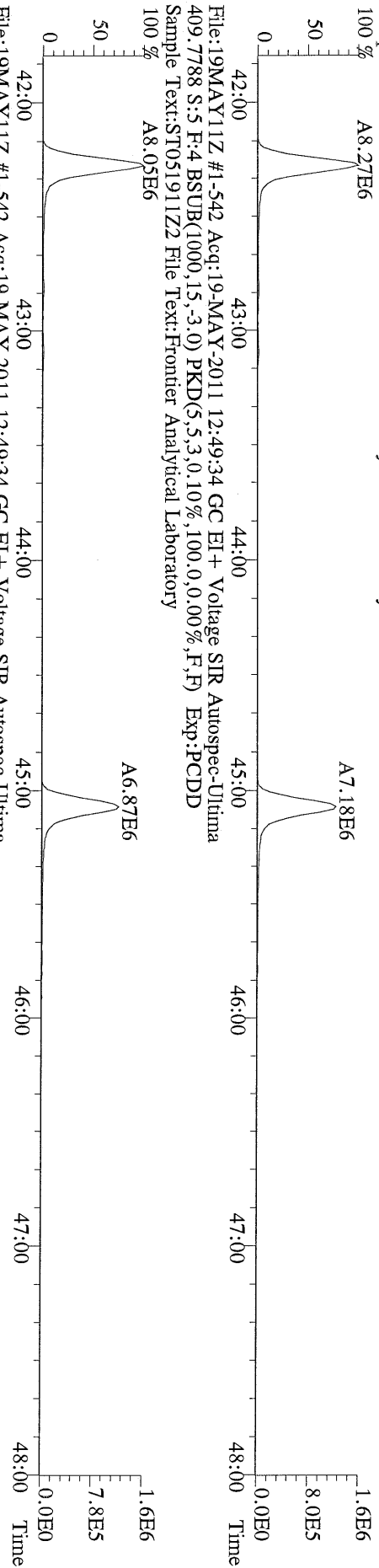
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383.8639 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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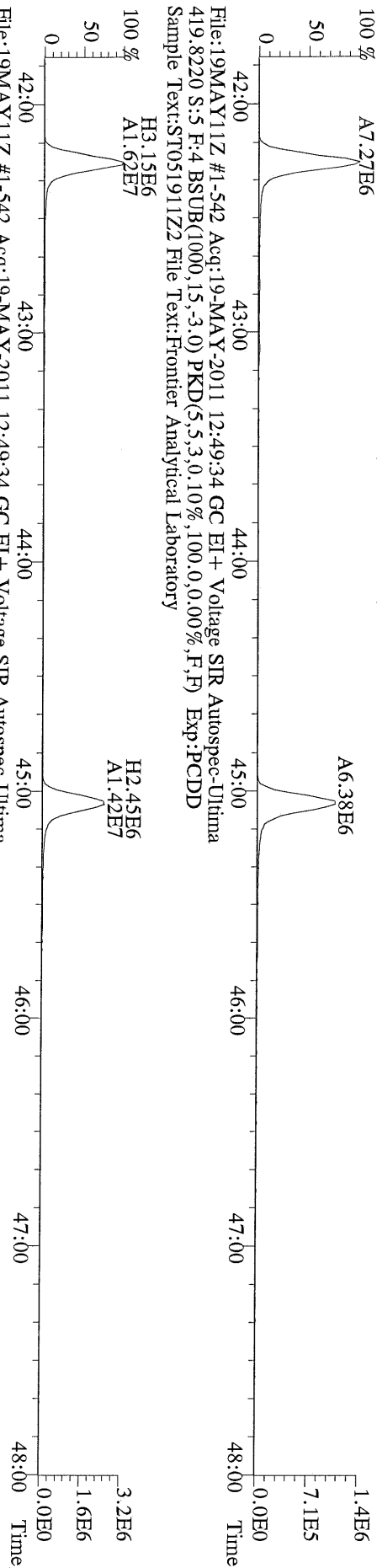
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445.7555 S:5 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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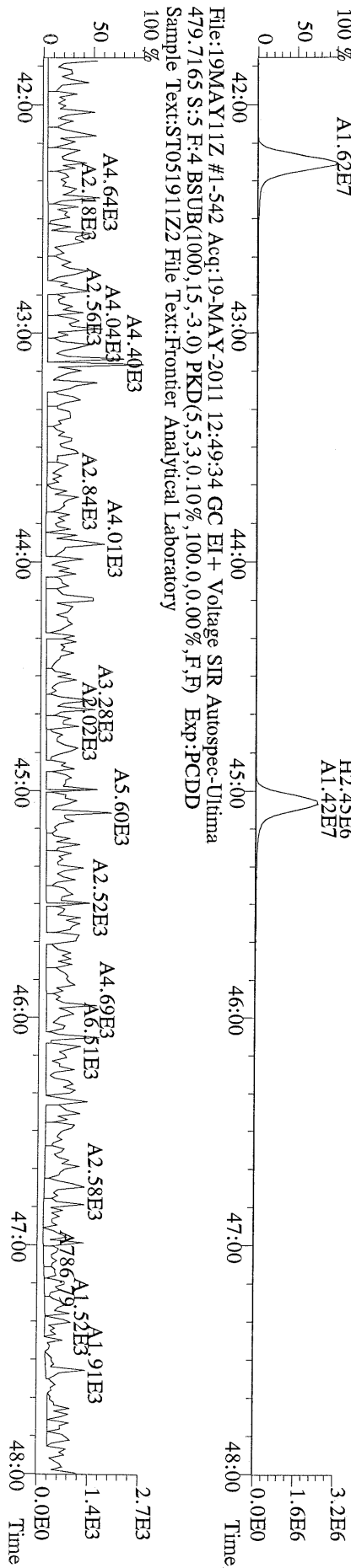
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407.7818 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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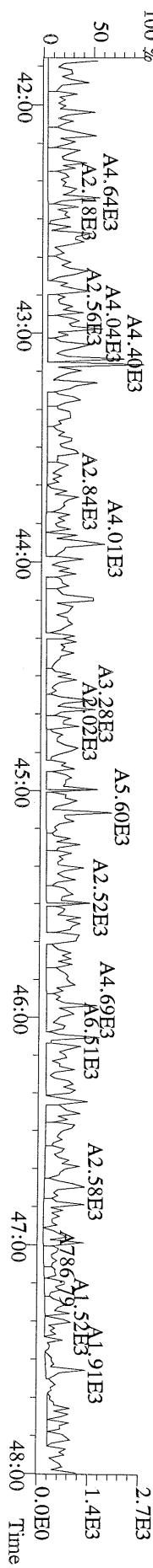
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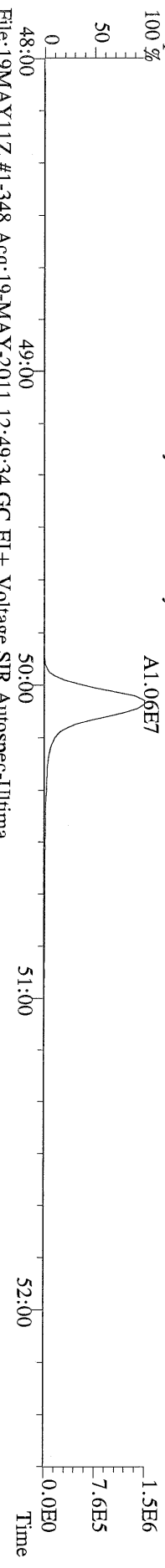
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419.8220 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



File:19MAYY11Z #1-542 Acq:19-MAY-2011 12:49:34 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:5 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory



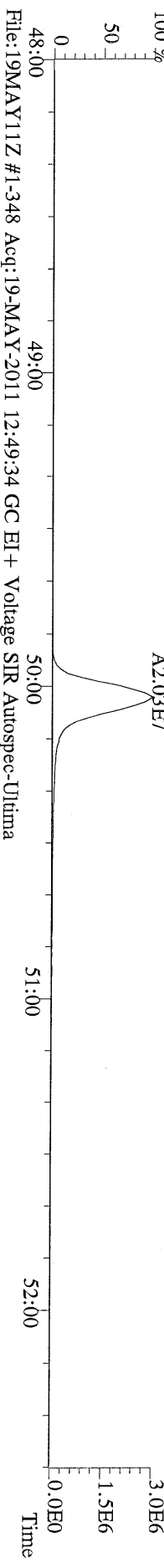
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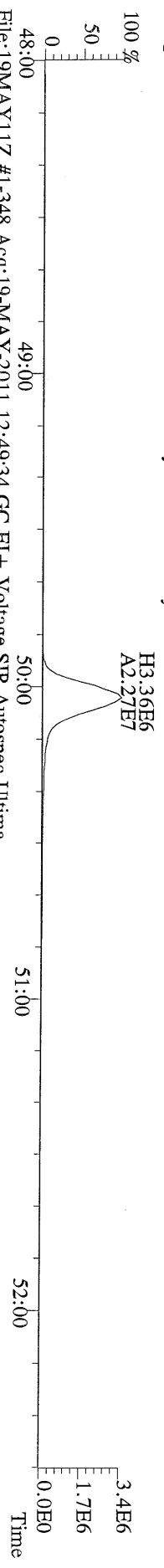
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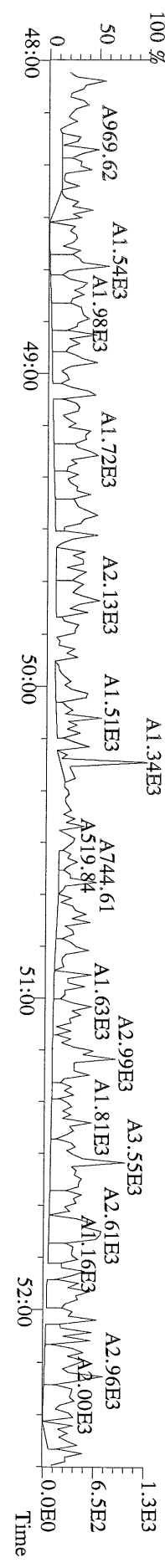
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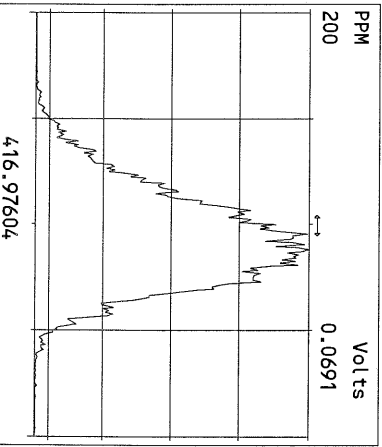
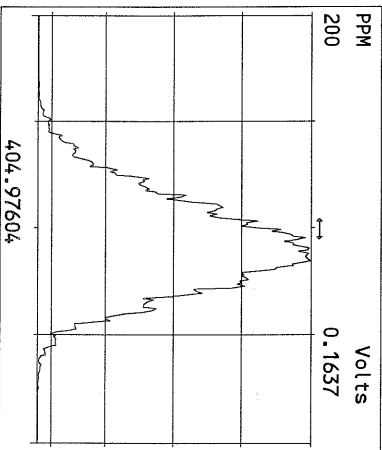
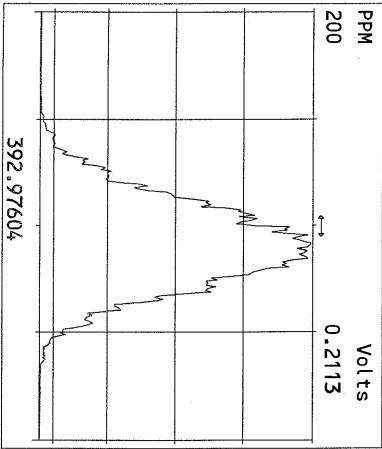
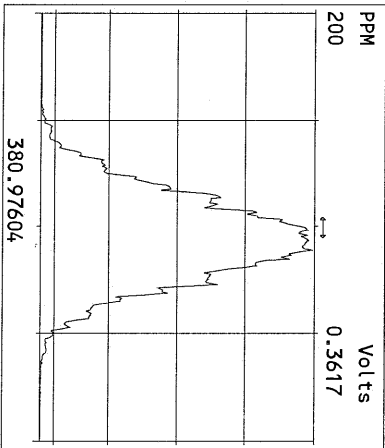
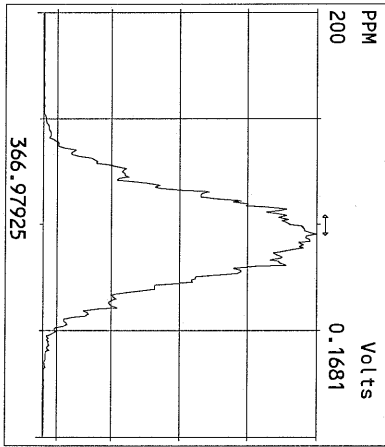
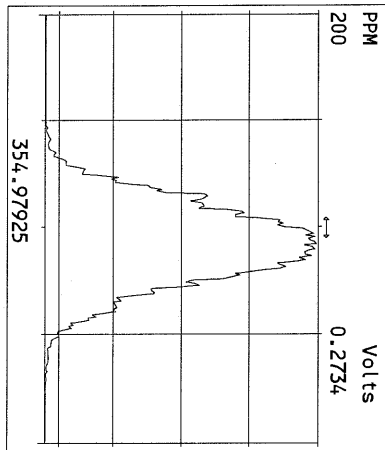
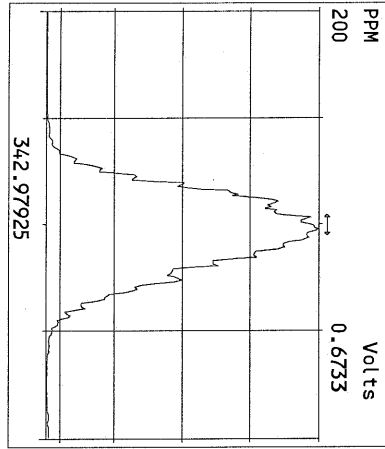
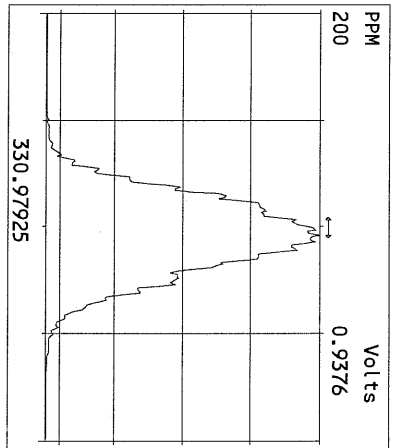
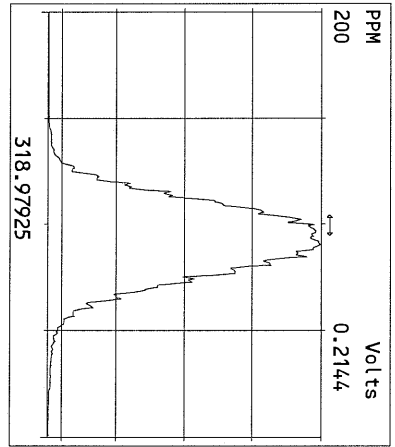
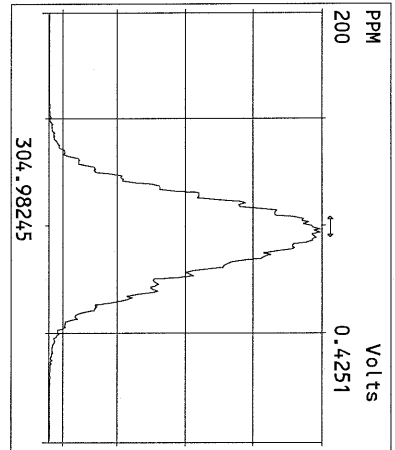
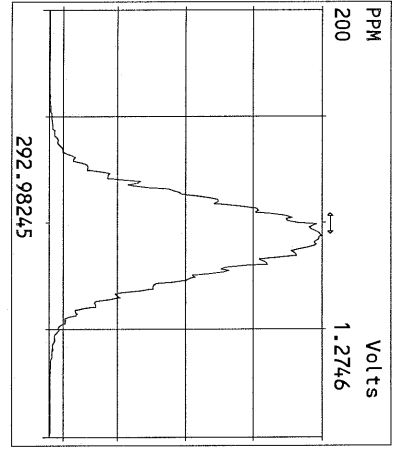


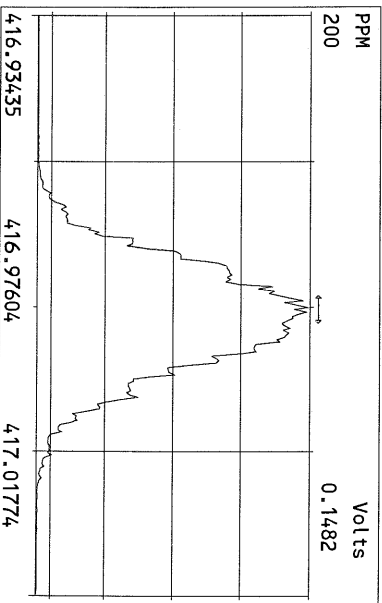
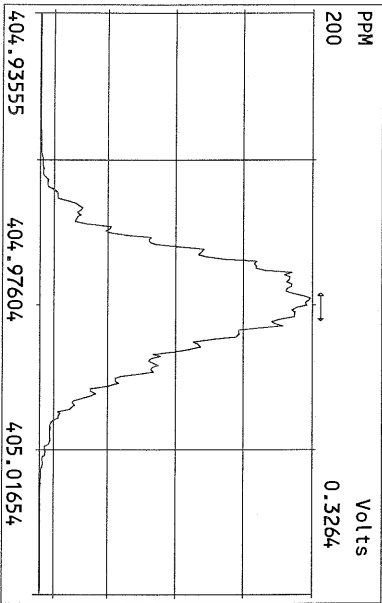
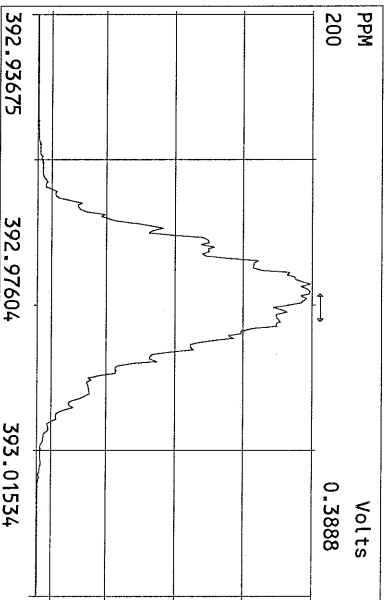
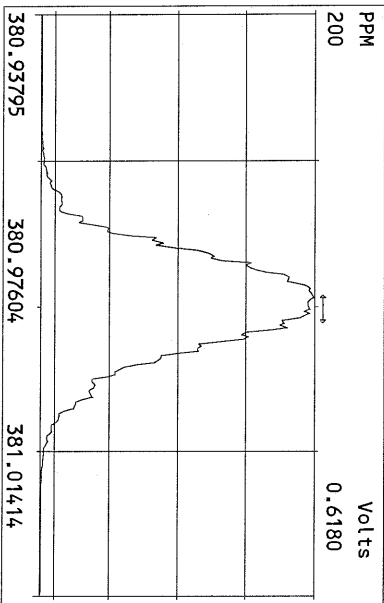
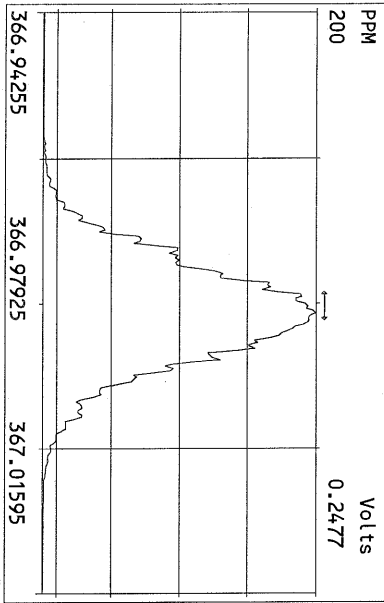
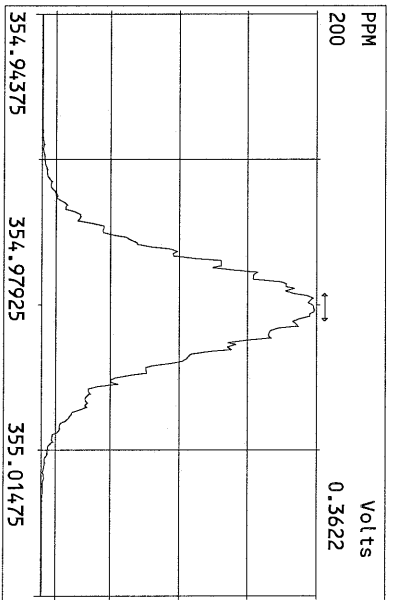
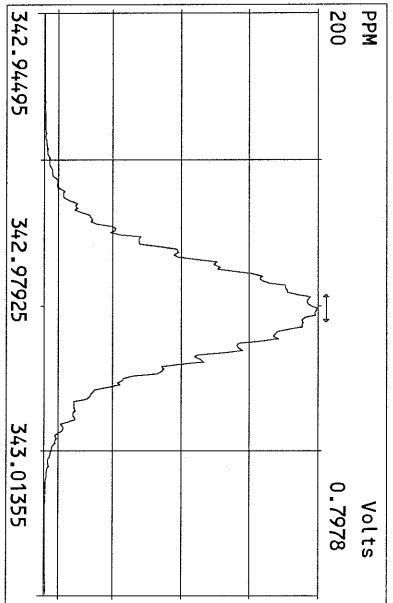
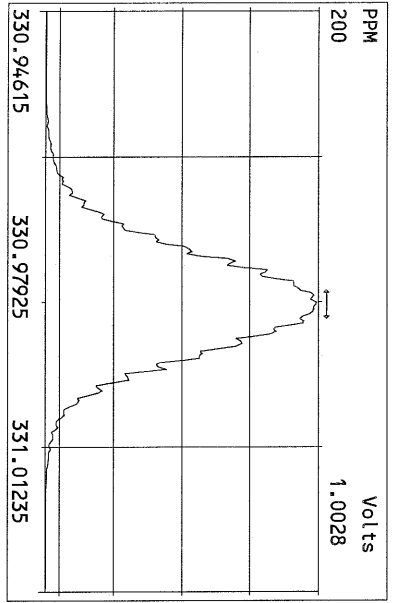
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 455.7801 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory

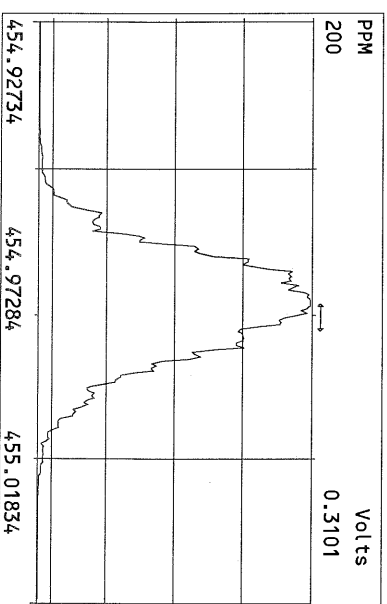
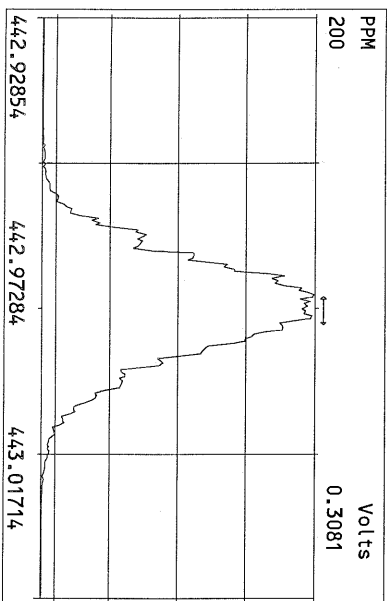
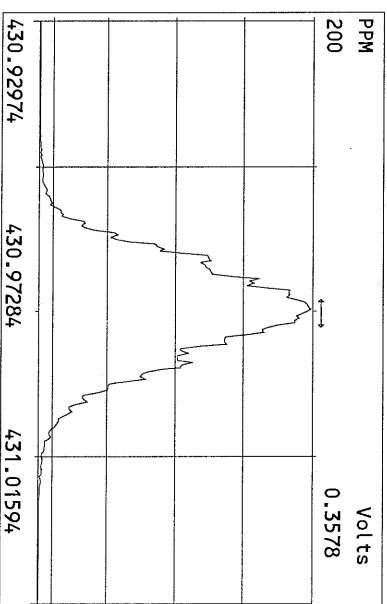
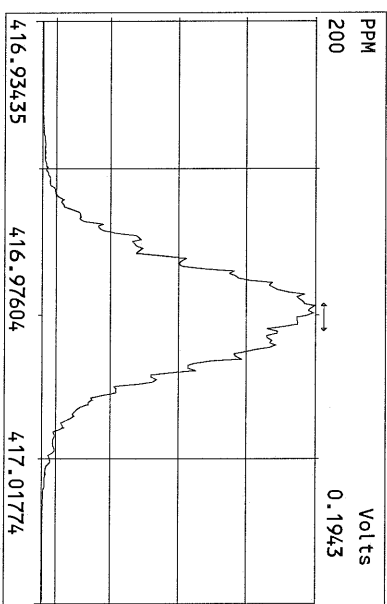
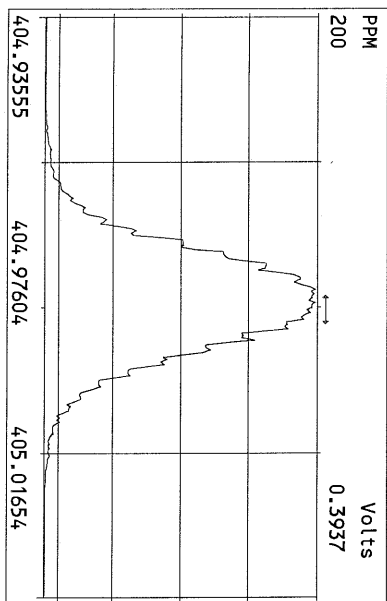
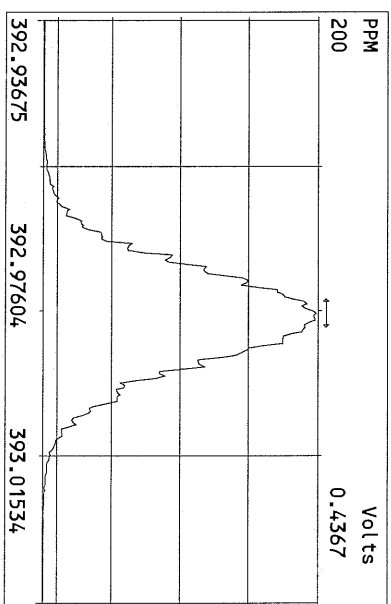
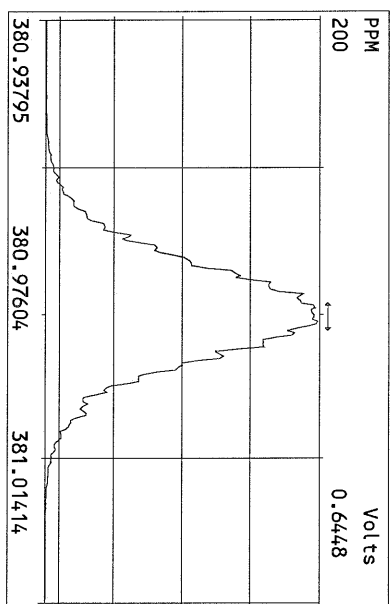
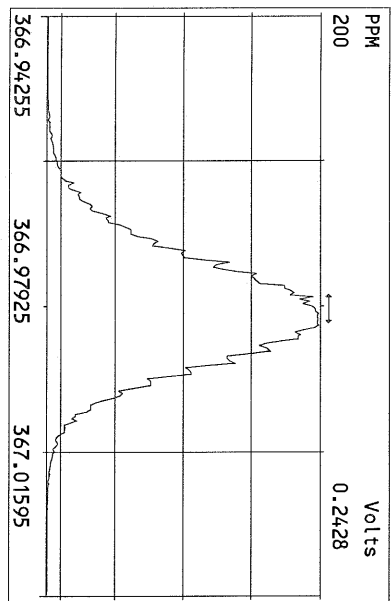


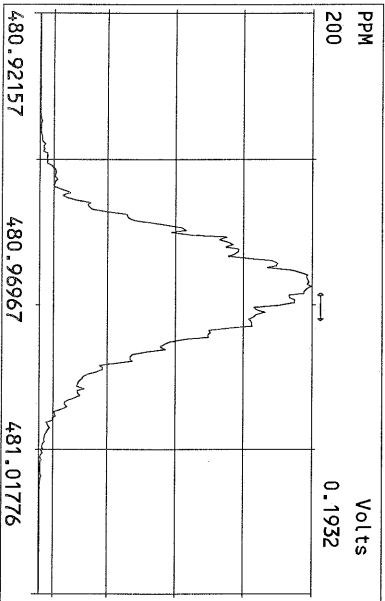
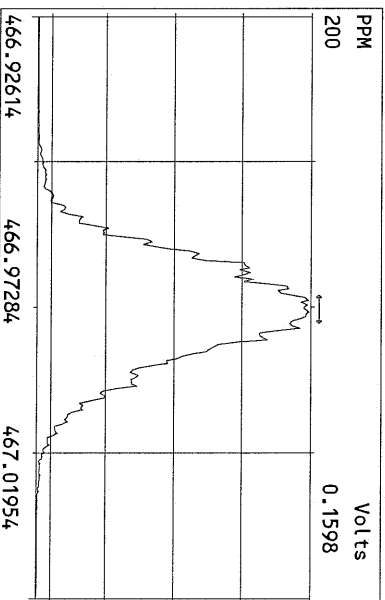
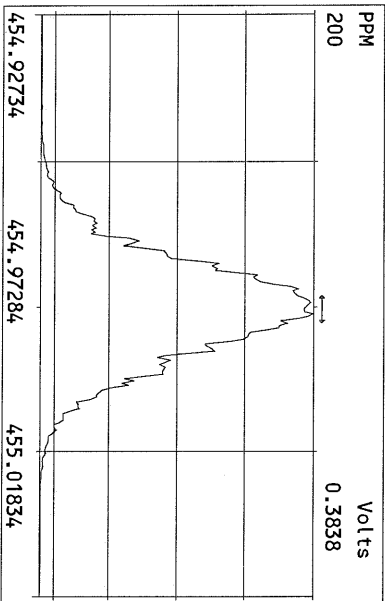
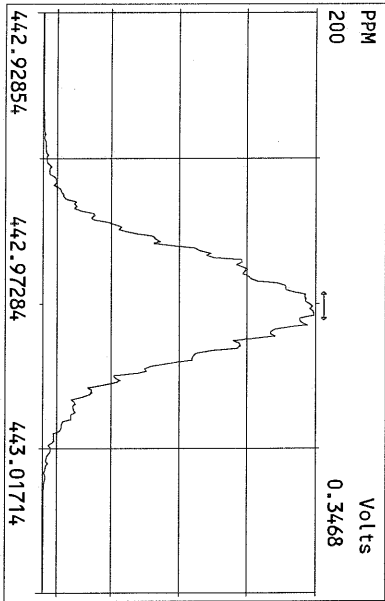
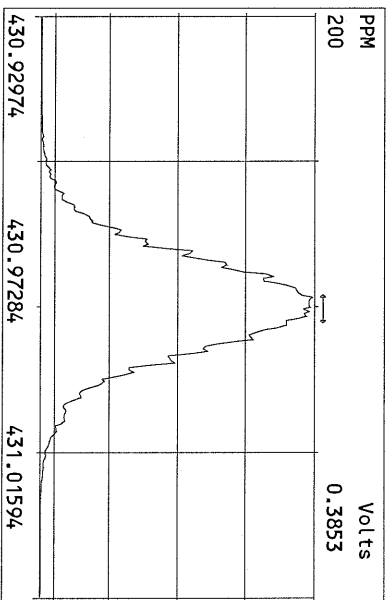
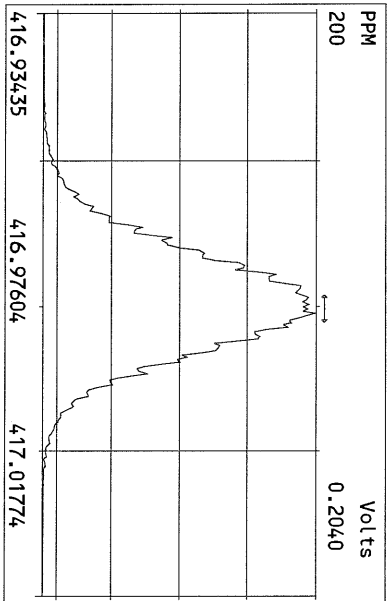
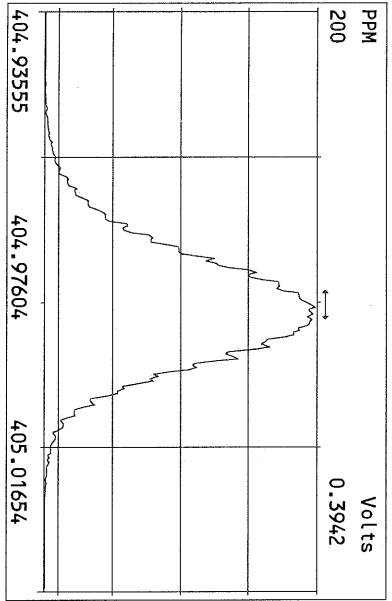
File:19MAY11Z #1-348 Acq:19-MAY-2011 12:49:34 GC EI+ Voltage SIR Autospec-Ultima
 513.6775 S:5 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051911Z2 File Text:Frontier Analytical Laboratory

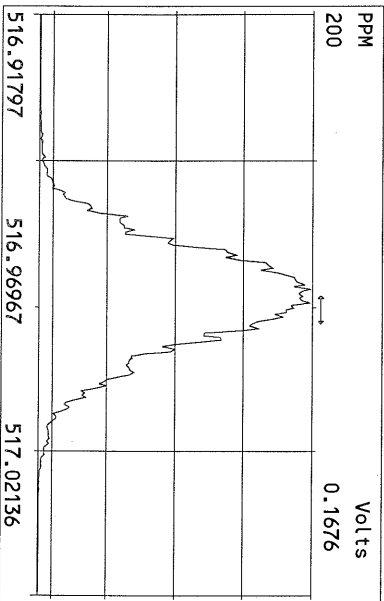
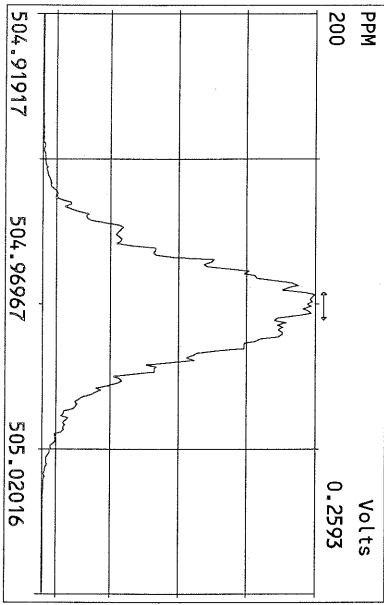
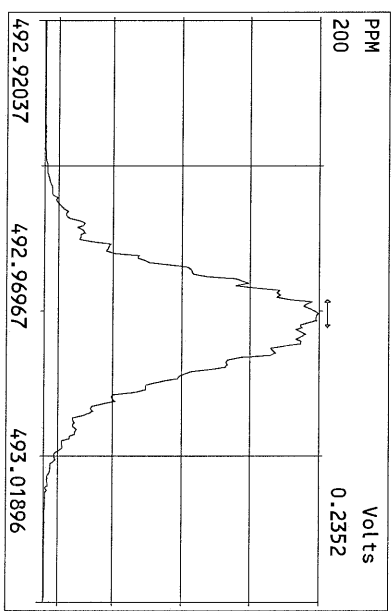
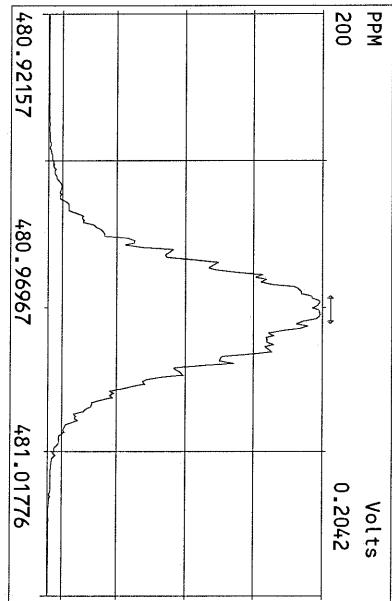
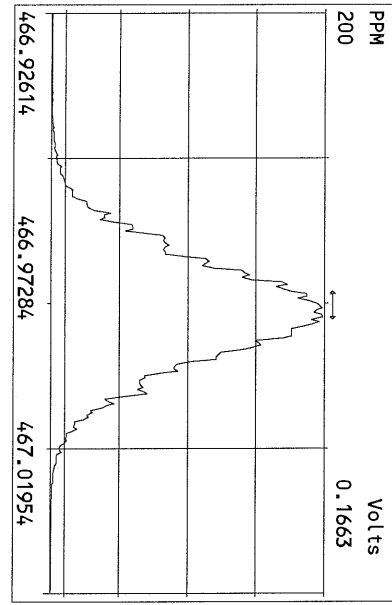
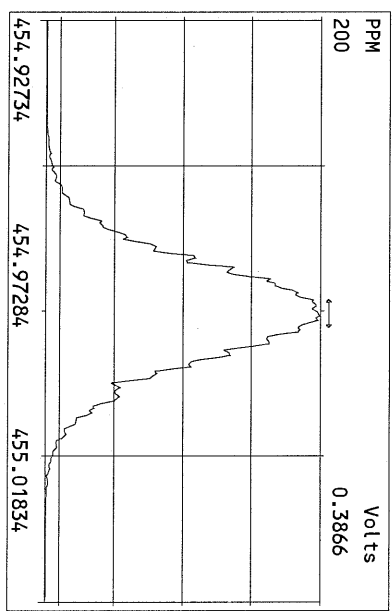
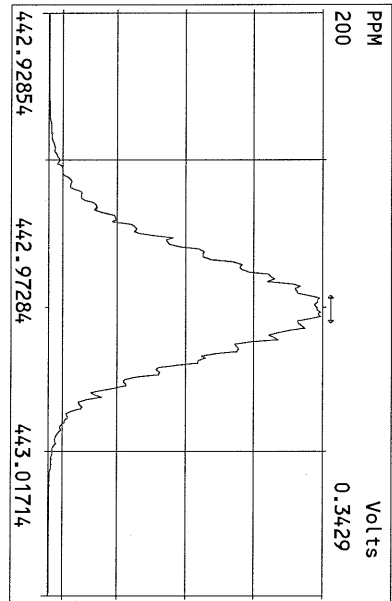
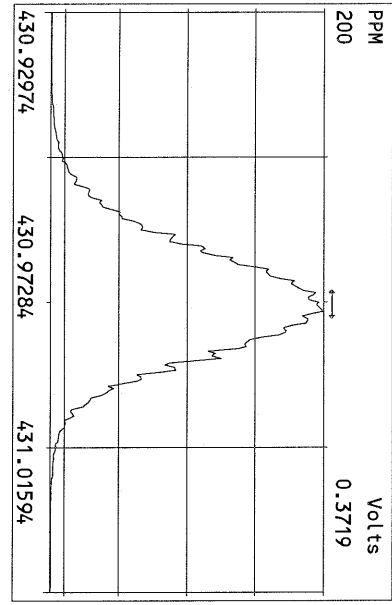














May 23, 2011

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

Dear Ms. Dunnihoo,

Enclosed are the results for Frontier Analytical Laboratory project **6740**. This corresponds to your **Lora Lake Apartments RI** project under ARI project number **SU21**. Six aqueous samples were received on 4/29/2011 in good condition. These samples were extracted and analyzed by EPA Method 1613 for tetra through octa chlorinated dibenzo dioxins and furans. The 2005 World Health Organizations toxic equivalency factors were used to calculate the toxic equivalency (TEQs) on your report. Analytical Resources Incorporated requested a Level IV report and a turnaround time of fifteen (15) business days for project **6740**.

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

If you have any questions regarding project **6740**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

A handwritten signature in black ink that reads "Daniel P. Vickers".

Daniel P. Vickers
Vice President

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **6740**

Received on: **04/29/2011**

Project Due: **05/23/2011** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time
6740-001-SA	1	SU21	MW07-042711	EPA 1613 D/F	Aqueous	04/27/2011	09:15 am
6740-002-SA	1	SU21	MW11-042711	EPA 1613 D/F	Aqueous	04/27/2011	10:40 am
6740-003-SA	1	SU21	MW10-042711	EPA 1613 D/F	Aqueous	04/27/2011	11:40 am
6740-004-SA	1	SU21	MW09-042711	EPA 1613 D/F	Aqueous	04/27/2011	01:10 pm
6740-005-SA	1	SU21	MW08-042711	EPA 1613 D/F	Aqueous	04/27/2011	02:17 pm
6740-006-SA	1	SU21	MW12-042711	EPA 1613 D/F	Aqueous	04/27/2011	03:50 pm

EPA Method 1613
PCDD/F



FAL ID: 6740-001-MB
Client ID: Method Blank
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.866		-	0.215				
1,2,3,7,8-PeCDD	ND	0.894		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.19		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.50		-	0.424	Total TCDD	ND	0.866	
1,2,3,7,8,9-HxCDD	ND	1.30		-	0.367	Total PeCDD	ND	0.894	
1,2,3,4,6,7,8-HpCDD	ND	2.13		-	0.497	Total HxCDD	ND	1.50	
OCDD	ND	2.71		-	1.41	Total HpCDD	ND	2.13	
2,3,7,8-TCDF	ND	0.712		-	0.209				
1,2,3,7,8-PeCDF	ND	1.26		-	0.235				
2,3,4,7,8-PeCDF	ND	1.27		-	0.243				
1,2,3,4,7,8-HxCDF	ND	0.892		-	0.255				
1,2,3,6,7,8-HxCDF	ND	0.849		-	0.248				
2,3,4,6,7,8-HxCDF	ND	0.831		-	0.262				
1,2,3,7,8,9-HxCDF	ND	0.768		-	0.258	Total TCDF	ND	0.712	
1,2,3,4,6,7,8-HpCDF	ND	1.09		-	0.324	Total PeCDF	ND	1.27	
1,2,3,4,7,8,9-HpCDF	ND	1.39		-	0.490	Total HxCDF	ND	0.892	
OCDF	ND	2.46		-	0.805	Total HpCDF	ND	1.39	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	98.2	25.0 - 164	
13C-1,2,3,7,8-PeCDD	89.7	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	96.1	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	92.0	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	94.4	23.0 - 140	
13C-OCDD	99.8	17.0 - 157	
13C-2,3,7,8-TCDF	98.3	24.0 - 169	
13C-1,2,3,7,8-PeCDF	86.4	24.0 - 185	
13C-2,3,4,7,8-PeCDF	90.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	101	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	98.8	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	102	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	98.6	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	100	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	99.2	26.0 - 138	
13C-OCDF	93.0	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	99.0	35.0 - 197	
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst:

Date: 5/19/11

Reviewed By:

Date: 5/19/11

EPA Method 1613
PCDD/F



FAL ID: 6740-001-OPR
Client ID: OPR
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: NA
Amount: 1.000 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: ng/ml

Acquired: 05-18-2011
2005 WHO TEQ: NA

Compound	Conc	QC Limits	Qual
2,3,7,8-TCDD	10.3	6.70 - 15.8	
1,2,3,7,8-PeCDD	56.8	35.0 - 71.0	
1,2,3,4,7,8-HxCDD	56.2	35.0 - 82.0	
1,2,3,6,7,8-HxCDD	56.9	38.0 - 67.0	
1,2,3,7,8,9-HxCDD	58.0	32.0 - 81.0	
1,2,3,4,6,7,8-HpCDD	58.8	35.0 - 70.0	
OCDD	111	78.0 - 144	
2,3,7,8-TCDF	10.7	7.50 - 15.8	
1,2,3,7,8-PeCDF	57.4	40.0 - 67.0	
2,3,4,7,8-PeCDF	57.2	34.0 - 80.0	
1,2,3,4,7,8-HxCDF	56.1	36.0 - 67.0	
1,2,3,6,7,8-HxCDF	56.9	42.0 - 65.0	
2,3,4,6,7,8-HxCDF	57.7	35.0 - 78.0	
1,2,3,7,8,9-HxCDF	58.1	39.0 - 65.0	
1,2,3,4,6,7,8-HpCDF	56.8	41.0 - 61.0	
1,2,3,4,7,8,9-HpCDF	56.2	39.0 - 69.0	
OCDF	119	63.0 - 170	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	95.7	20.0 - 175	
13C-1,2,3,7,8-PeCDD	80.4	21.0 - 227	
13C-1,2,3,4,7,8-HxCDD	84.0	21.0 - 193	
13C-1,2,3,6,7,8-HxCDD	78.7	25.0 - 163	
13C-1,2,3,4,6,7,8-HpCDD	76.6	26.0 - 166	
13C-OCDD	81.1	13.0 - 198	
13C-2,3,7,8-TCDF	96.9	22.0 - 152	
13C-1,2,3,7,8-PeCDF	84.6	21.0 - 192	
13C-2,3,4,7,8-PeCDF	88.1	13.0 - 328	
13C-1,2,3,4,7,8-HxCDF	88.1	19.0 - 202	
13C-1,2,3,6,7,8-HxCDF	86.4	21.0 - 159	
13C-2,3,4,6,7,8-HxCDF	88.8	22.0 - 176	
13C-1,2,3,7,8,9-HxCDF	84.1	17.0 - 205	
13C-1,2,3,4,6,7,8-HpCDF	81.4	21.0 - 158	
13C-1,2,3,4,7,8,9-HpCDF	81.0	20.0 - 186	
13C-OCDF	77.8	13.0 - 198	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD	100	31.0 - 191	
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- A Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
- B Analyte is present in Method Blank
- C Chemical Interference
- D Presence of Diphenyl Ethers
- E Analyte concentration is above calibration range
- F Analyte confirmation on secondary column
- J Analyte concentration is below calibration range
- M Maximum possible concentration
- ND Analyte Not Detected
- NP Not Provided
- P Pre-filtered through a Whatman 0.7um GF/F filter
- S Sample acceptance criteria not met
- X Matrix interferences
- * Result taken from dilution or reinjection

Analyst: [Signature]
Date: 5/19/11

Reviewed By: [Signature]
Date: 5/19/11

EPA Method 1613
PCDD/F



FAL ID: 6740-001-SA
Client ID: MW07-042711
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: 04-29-2011
Amount: 1.030 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.01		-	0.215				
1,2,3,7,8-PeCDD	ND	1.29		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.24		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.60		-	0.424	Total TCDD	ND	1.01	
1,2,3,7,8,9-HxCDD	ND	1.37		-	0.367	Total PeCDD	ND	1.29	
1,2,3,4,6,7,8-HpCDD	ND	2.14		-	0.497	Total HxCDD	ND	1.60	
OCDD	ND	2.67		-	1.41	Total HpCDD	ND	2.14	
2,3,7,8-TCDF	ND	0.801		-	0.209				
1,2,3,7,8-PeCDF	ND	1.42		-	0.235				
2,3,4,7,8-PeCDF	ND	1.40		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.17		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.19		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.21		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.08		-	0.258	Total TCDF	ND	0.801	
1,2,3,4,6,7,8-HpCDF	ND	1.41		-	0.324	Total PeCDF	ND	1.42	
1,2,3,4,7,8,9-HpCDF	ND	1.76		-	0.490	Total HxCDF	ND	1.21	
OCDF	ND	2.73		-	0.805	Total HpCDF	ND	1.76	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	101	25.0 - 164	
13C-1,2,3,7,8-PeCDD	89.0	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	98.4	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	92.6	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	99.3	23.0 - 140	
13C-OCDD	110	17.0 - 157	
13C-2,3,7,8-TCDF	102	24.0 - 169	
13C-1,2,3,7,8-PeCDF	91.6	24.0 - 185	
13C-2,3,4,7,8-PeCDF	94.1	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	101	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	94.5	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	98.1	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	96.8	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	98.3	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	101	26.0 - 138	
13C-OCDF	98.4	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 97.9 35.0 - 197

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

Analyst: [Signature]
Date: 5/19/11

Reviewed By: [Signature]
Date: 5/19/11

EPA Method 1613
PCDD/F



FAL ID: 6740-003-SA
Client ID: MW10-042711
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: 04-29-2011
Amount: 1.036 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.00

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	1.19		-	0.215				
1,2,3,7,8-PeCDD	ND	1.34		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.52		-	0.326				
1,2,3,6,7,8-HxCDD	ND	1.97		-	0.424	Total TCDD	ND	1.19	
1,2,3,7,8,9-HxCDD	ND	1.68		-	0.367	Total PeCDD	ND	1.34	
1,2,3,4,6,7,8-HpCDD	ND	2.06		-	0.497	Total HxCDD	ND	1.97	
OCDD	ND	3.13		-	1.41	Total HpCDD	ND	2.06	
2,3,7,8-TCDF	ND	0.816		-	0.209				
1,2,3,7,8-PeCDF	ND	1.19		-	0.235				
2,3,4,7,8-PeCDF	ND	1.23		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.08		-	0.255				
1,2,3,6,7,8-HxCDF	ND	0.995		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.07		-	0.262				
1,2,3,7,8,9-HxCDF	ND	0.973		-	0.258	Total TCDF	ND	0.816	
1,2,3,4,6,7,8-HpCDF	ND	1.25		-	0.324	Total PeCDF	ND	1.23	
1,2,3,4,7,8,9-HpCDF	ND	1.60		-	0.490	Total HxCDF	ND	1.08	
OCDF	ND	2.32		-	0.805	Total HpCDF	ND	1.60	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	92.4	25.0 - 164	
13C-1,2,3,7,8-PeCDD	82.6	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	89.4	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	83.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	89.8	23.0 - 140	
13C-OCDD	99.5	17.0 - 157	
13C-2,3,7,8-TCDF	96.7	24.0 - 169	
13C-1,2,3,7,8-PeCDF	87.3	24.0 - 185	
13C-2,3,4,7,8-PeCDF	88.9	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	92.5	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	86.5	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	89.6	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	89.3	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	89.5	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	91.1	26.0 - 138	
13C-OCDF	86.4	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 83.1 35.0 - 197

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

Analyst: ks
Date: 5/19/11

Reviewed By: [Signature]
Date: 5/19/11

EPA Method 1613
PCDD/F



FAL ID: 6740-004-SA
Client ID: MW09-042711
Matrix: Aqueous
Batch No: X2293

Date Extracted: 05-17-2011
Date Received: 04-29-2011
Amount: 1.029 L

ICal: PCDDFAL4-5-17-11
GC Column: DB5
Units: pg/L

Acquired: 05-18-2011
2005 WHO TEQ: 0.0800

Compound	Conc	DL	Qual	2005 WHO Tox	MDL	Compound	Conc	DL	Qual
2,3,7,8-TCDD	ND	0.962		-	0.215				
1,2,3,7,8-PeCDD	ND	1.50		-	0.317				
1,2,3,4,7,8-HxCDD	ND	1.95		-	0.326				
1,2,3,6,7,8-HxCDD	ND	2.48		-	0.424	Total TCDD	ND	0.962	
1,2,3,7,8,9-HxCDD	ND	2.13		-	0.367	Total PeCDD	ND	1.50	
1,2,3,4,6,7,8-HpCDD	7.05	-	J	0.0705	0.497	Total HxCDD	ND	2.48	
OCDD	31.5	-	J	0.00945	1.41	Total HpCDD	13.7	-	J
2,3,7,8-TCDF	ND	0.931		-	0.209				
1,2,3,7,8-PeCDF	ND	1.30		-	0.235				
2,3,4,7,8-PeCDF	ND	1.29		-	0.243				
1,2,3,4,7,8-HxCDF	ND	1.17		-	0.255				
1,2,3,6,7,8-HxCDF	ND	1.17		-	0.248				
2,3,4,6,7,8-HxCDF	ND	1.17		-	0.262				
1,2,3,7,8,9-HxCDF	ND	1.02		-	0.258	Total TCDF	ND	0.931	
1,2,3,4,6,7,8-HpCDF	ND	1.71		-	0.324	Total PeCDF	ND	1.30	
1,2,3,4,7,8,9-HpCDF	ND	2.11		-	0.490	Total HxCDF	ND	1.17	
OCDF	ND	2.99		-	0.805	Total HpCDF	ND	2.11	

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	90.3	25.0 - 164	
13C-1,2,3,7,8-PeCDD	80.9	25.0 - 181	
13C-1,2,3,4,7,8-HxCDD	88.8	32.0 - 141	
13C-1,2,3,6,7,8-HxCDD	82.1	28.0 - 130	
13C-1,2,3,4,6,7,8-HpCDD	90.8	23.0 - 140	
13C-OCDD	101	17.0 - 157	
13C-2,3,7,8-TCDF	90.7	24.0 - 169	
13C-1,2,3,7,8-PeCDF	82.1	24.0 - 185	
13C-2,3,4,7,8-PeCDF	86.3	21.0 - 178	
13C-1,2,3,4,7,8-HxCDF	89.9	26.0 - 152	
13C-1,2,3,6,7,8-HxCDF	83.6	26.0 - 123	
13C-2,3,4,6,7,8-HxCDF	87.2	28.0 - 136	
13C-1,2,3,7,8,9-HxCDF	86.6	29.0 - 147	
13C-1,2,3,4,6,7,8-HpCDF	87.2	28.0 - 143	
13C-1,2,3,4,7,8,9-HpCDF	90.7	26.0 - 138	
13C-OCDF	86.4	17.0 - 157	

Cleanup Surrogate

37Cl-2,3,7,8-TCDD 92.3 35.0 - 197

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

Analyst: [Signature]
Date: 5/19/11

Reviewed By: DN
Date: 5/19/11

SUBCONTRACTOR ANALYSIS REQUEST
 CUSTODY TRANSFER 04/28/11



6740
0

ARI Project: SU21

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

ARI Client: Floyd Snider
 Project ID: Lora Lake Apartments RI
 ARI PM: Sue Dunnihoo
 Phone: 206-695-6207
 Fax: 206-695-6201

Analytical Protocol: In-house
 Special Instructions:

Requested Turn Around: **05/12/11**
 Email Results (Y/N): **email**

Limits of Liability. Subcontractor is expected to perform all requested services in accordance with appropriate methodology following Standard Operating Procedures that meet standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the negotiated amount for said services. The agreement by the Subcontractor to perform services requested by ARI releases ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Subcontractor.

ARI ID	Client ID/ Add'l ID	Sampled	Matrix	Bottles	Analyses
11-9507-SU21A	MW07-042711	04/27/11 09:15	Water	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-9508-SU21B	MW11-042711	04/27/11 10:40	Water	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-9509-SU21C	MW10-042711	04/27/11 11:40	Water	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-9510-SU21D	MW09-042711	04/27/11 13:10	Water	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-9511-SU21E	MW08-042711	04/27/11 14:17	Water	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					
11-9512-SU21F	MW12-042711	04/27/11 15:50	Water	2	Dioxin/Furans 1613(Sub)
Special Instructions: None					

LU & CDP

128326950149922979
 128326950150258382

Carrier	UPS	Airbill	128326950149334999	Date	4/28/11
Relinquished by	Mirka Tulumba	Company	ARI	Date	4/28/11
				Time	1506
Received by	Tom Chabot	Company	Frontier	Date	4/29/11
				Time	1040AM

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6740**

Client:	Analytical Resources Inc. Sue Dunninghoo
Client Project ID:	SU21
Date Received:	04/29/2011
Time Received:	10:40 am
Received By:	TC
Logged In By:	WM
# of Samples Received:	6
Duplicates:	6
Storage Location:	R1

Method of Delivery:	UPS
Tracking Number:	1Z8326950150258382
Shipping Container Received Intact	Yes
Custody seals(s) present?	Yes
Custody seals(s) intact?	Yes
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	Yes
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	04/26/2012
Adequate Sample Volume	Yes
pH Range	Between 4 and 9
Anomalies or additional comments:	
L4 & EDD	





Frontier Analytical Laboratory

PROJECT REQUEST SHEET

Project #: 6740 Sample #: 1 - 6 Client Manager: BS
 Client: Analytical Resources Inc. Sue Dunning Hold Time: 04/26/2012
 Matrix: Aqueous Extraction Batch: 2293 Due Date: 05/23/2011
 Method: EPA 1613 D/F Storage: R1
 SOP: SOPs: EP2A Rev.9 IP2A Rev.10

COMMENTS/INSTRUCTIONS:

-NO CAP-

Sample	Full Weight (g)	Empty Weight (g)
6740-001-0001-SA	1522.34g	492.82g
6740-002-0001-SA	1526.34g	496.33g
6740-003-0001-SA	1528.14g	492.21g
6740-004-0001-SA	1524.29g	495.22g
6740-005-0001-SA	1528.04g	495.99g
6740-006-0001-SA	1528.14g	496.32g

Results: 6740

Instrument: FALC4
 DB5 _____
 DB225 _____
 DB1 _____
 Other _____

Extract/s located in box: "Transistors"

Standards: 6739

Frontier Analytical Laboratory
EXTRACTION SHEET

Project #: 6740 Extraction Date: 2011-05-17 Extraction Chemist: DV

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX

Solvent: Toluene

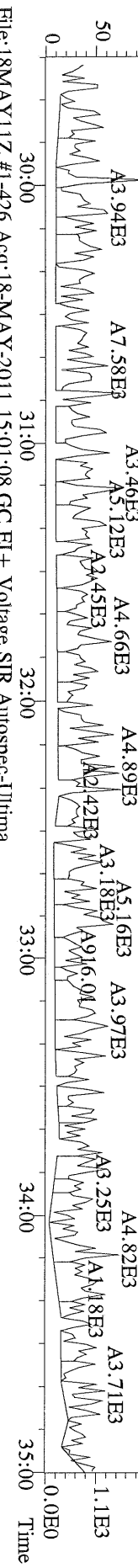
6739

Sample ID	Wet wt. (g/L)	Dry wt. (g/L)	IS	NS	CSS
			Amt: 10.0uL ID: 100511A Vial: 6 Chemist/Witness/Date	Amt: 10.0uL ID: 100511B Vial: 6 Chemist/Witness/Date	Amt: 10.0uL ID: 100511C Vial: 6 Chemist/Witness/Date
2293-001-0001-MB					
2293-001-0001-OPR					
6740-001-0001-SA	1.030L	N/A	DN GN 5/17/11	N/A	DN GN 5.18.11
6740-002-0001-SA	1.030L	↓	↓	↓	↓
6740-003-0001-SA	1.036L	↓	↓	↓	↓
6740-004-0001-SA	1.029L	↓	↓	↓	↓
6740-005-0001-SA	1.032L	↓	↓	↓	↓
6740-006-0001-SA	1.032L	↓	↓	↓	↓

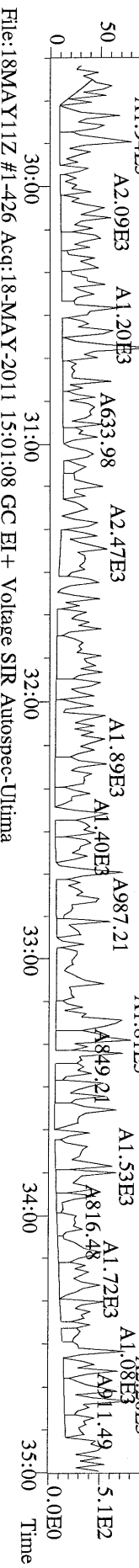
AX-21 Charcoal Cleaned	082510	Acetone	107203	Acid Alumina	A0281479	Hexane	110182
Hydrochloric Acid	B08505	Methanol	108367	Methylene Chloride (DCM)	51020	Silica Gel	TA1592834
Sodium Hydroxide	0062836	Sodium Sulfate	1750C277	Sulfuric Acid	110205	Tetradecane	086237
Toluene	108273	Water	51004	C-18 Empore Discs	320552	Cyclohexane	50204

Comments:

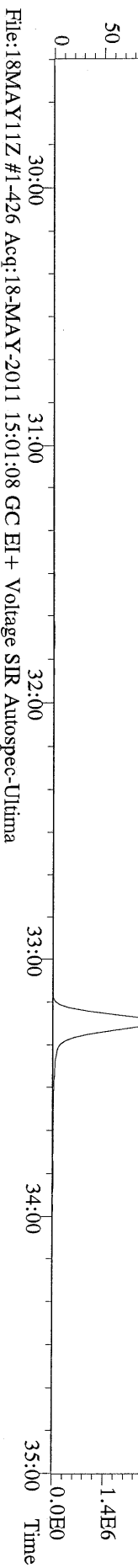
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 355.8546 S:4 F:2 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



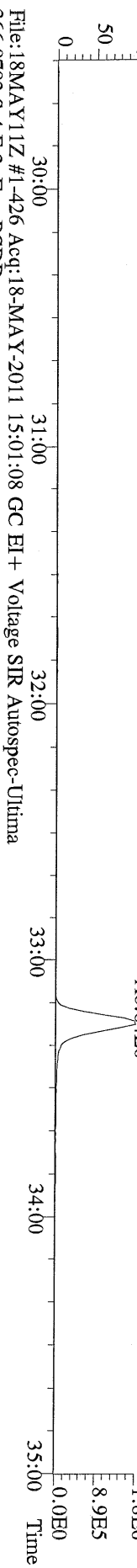
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 357.8517 S:4 F:2 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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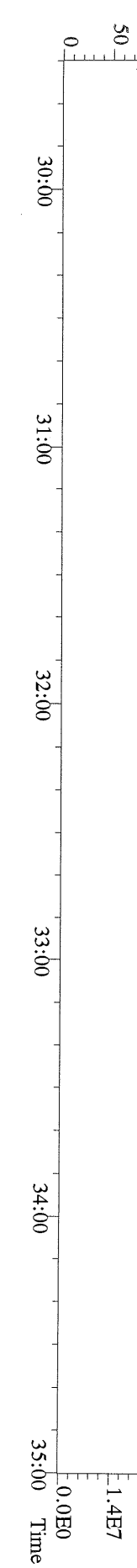
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 367.8949 S:4 F:2 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



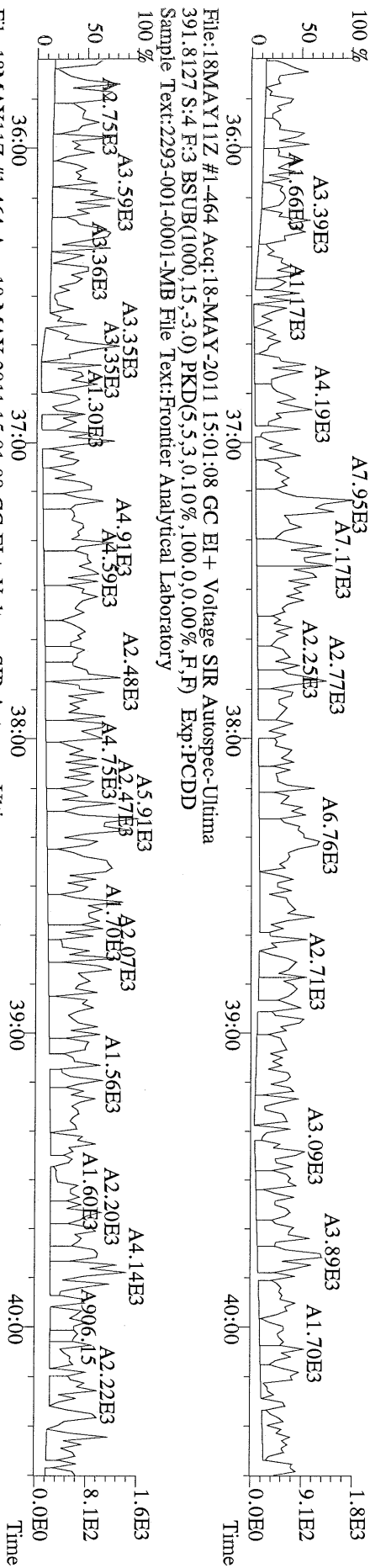
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 369.8919 S:4 F:2 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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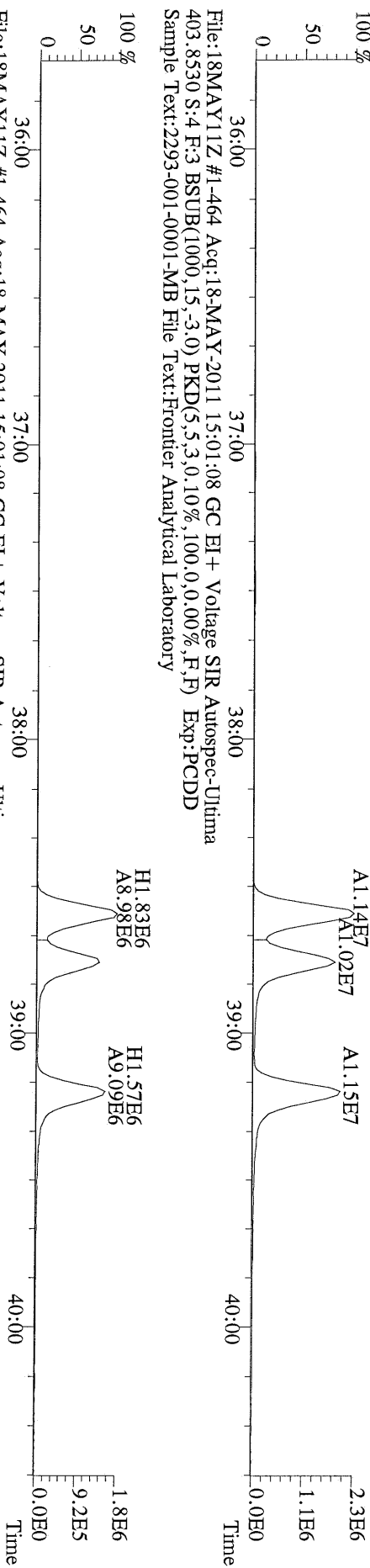
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 366.9792 S:4 F:2 Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



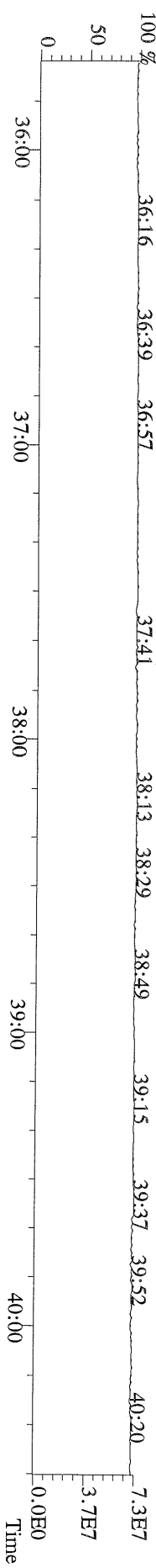
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389.8156 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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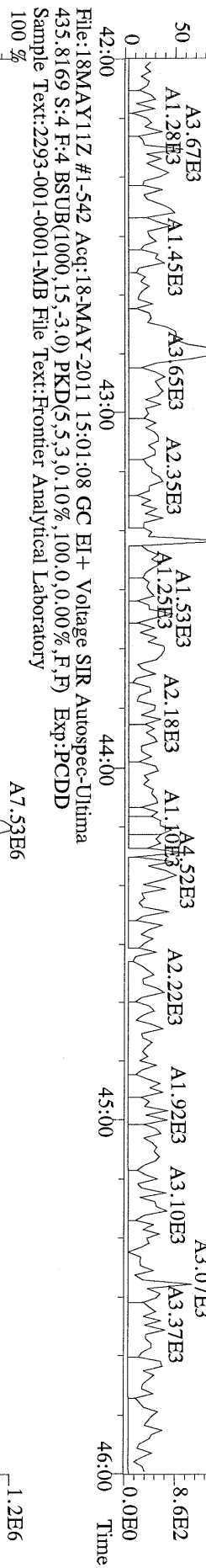
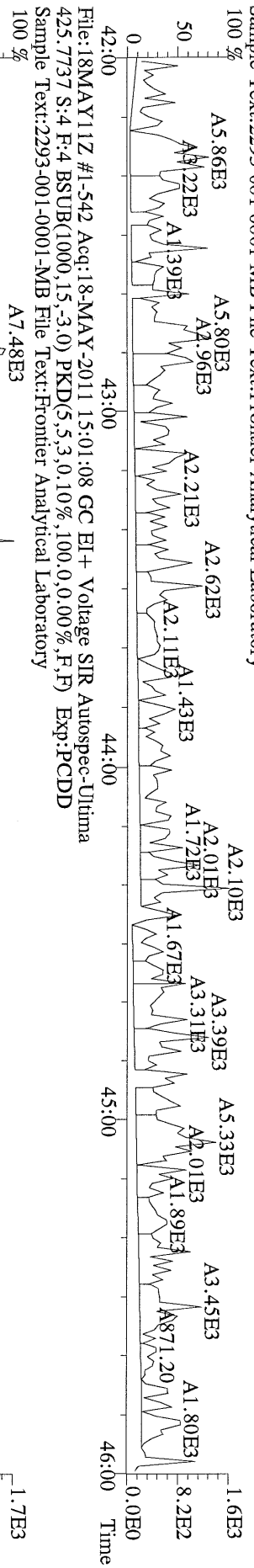
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401.8559 S:4 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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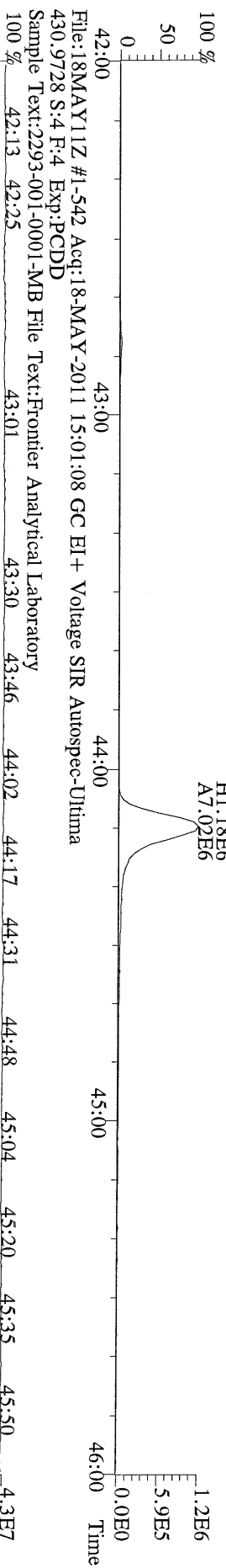
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI + Voltage SIR Autospec-Ultima
380.9760 S:4 F:3 Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 423.7767 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



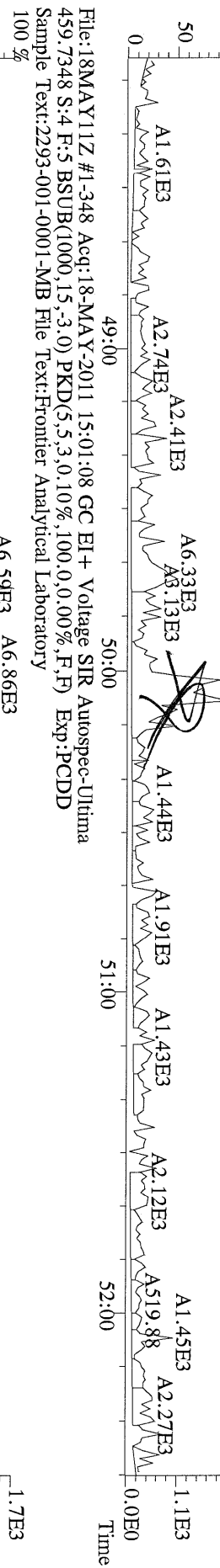
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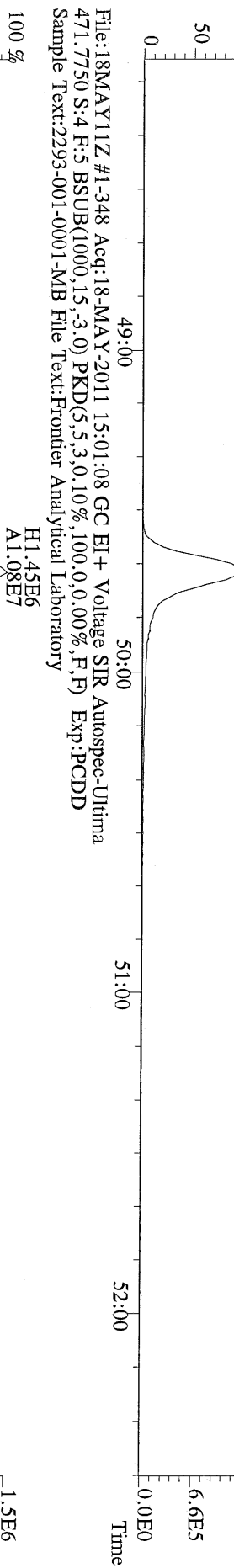
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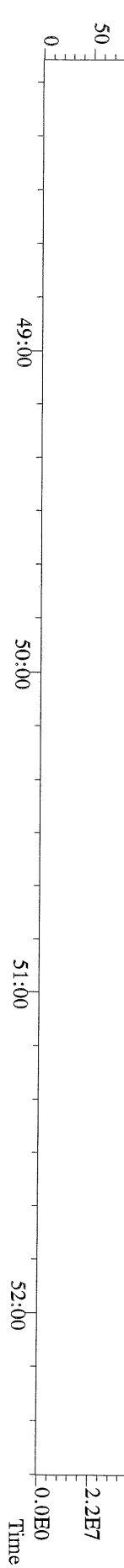
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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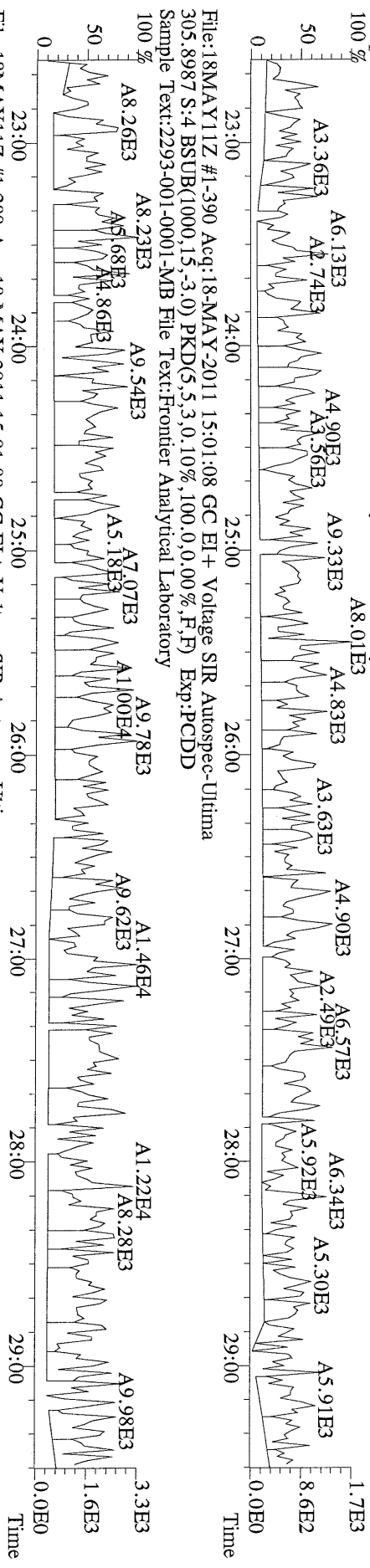
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 469.7780 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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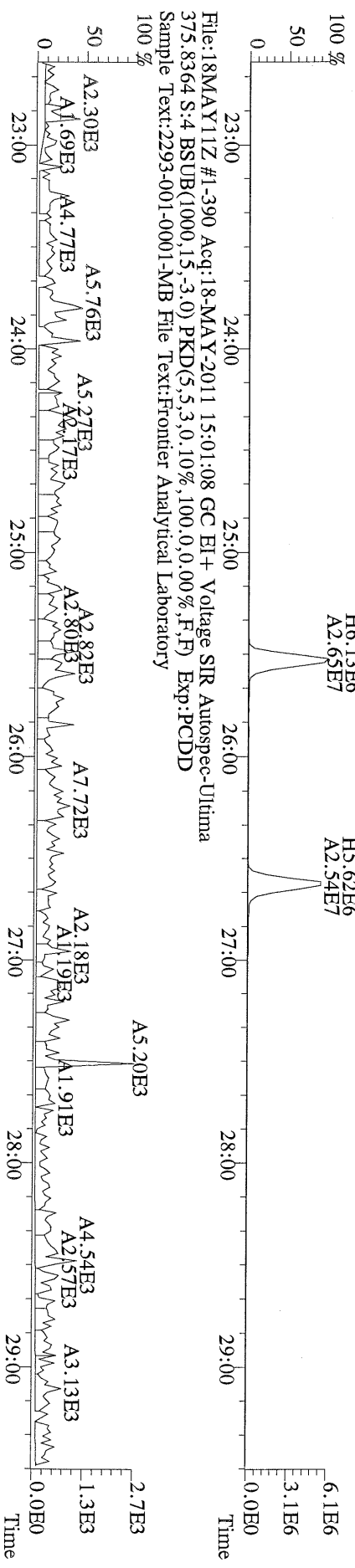
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 471.7750 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory

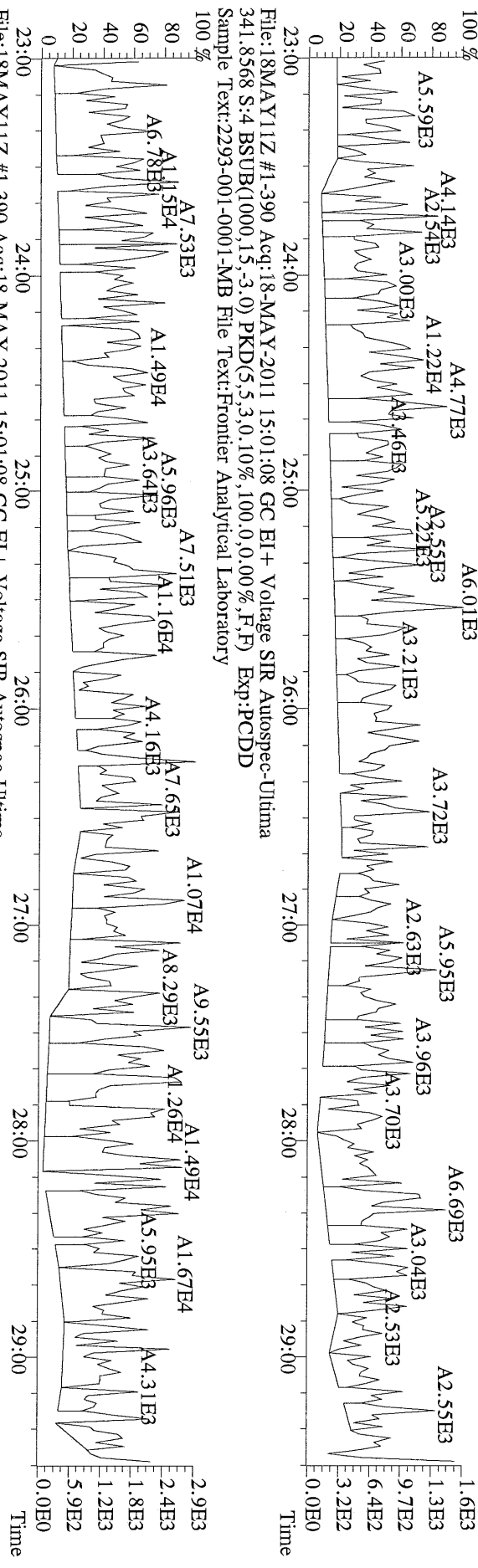


File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
315.9419 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory

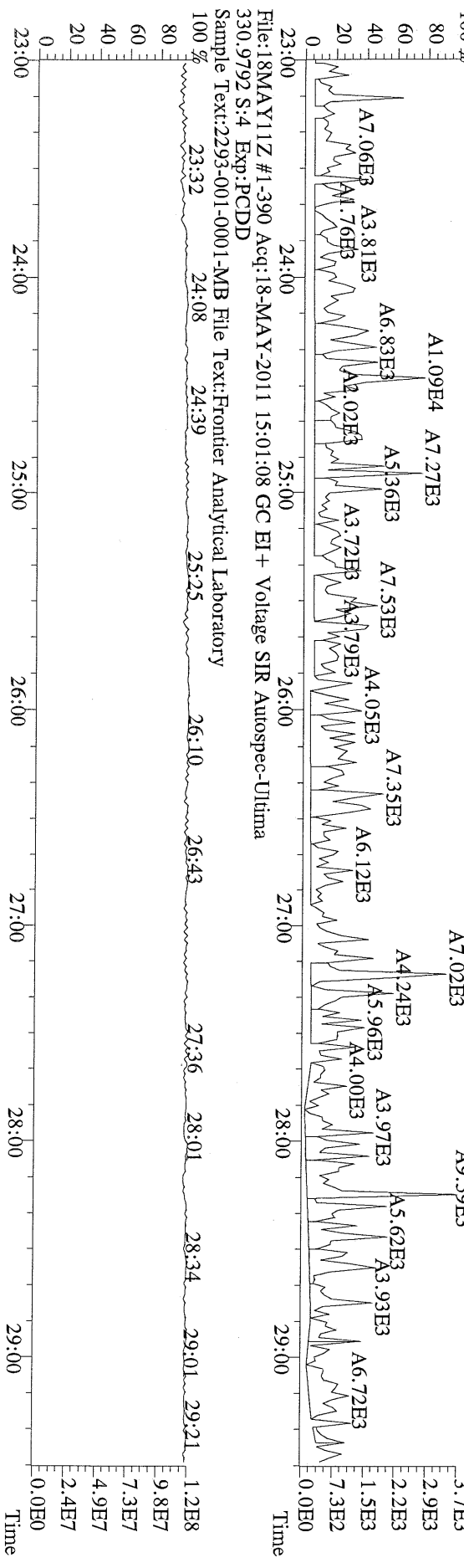


File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
375.8364 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory

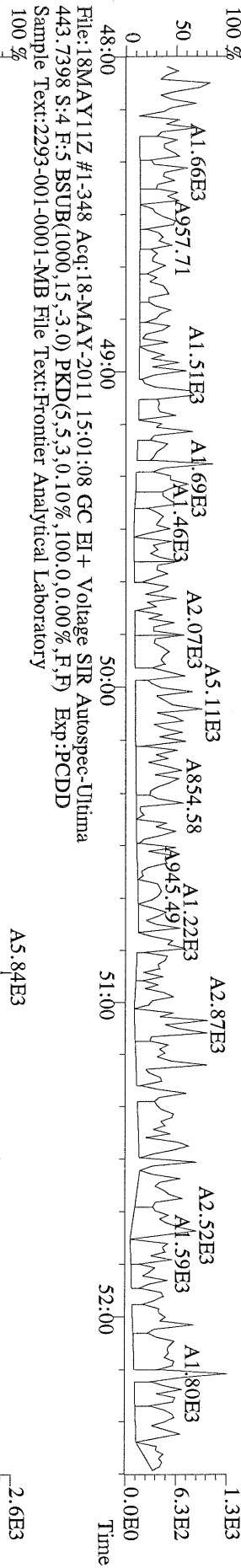
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 339.8597 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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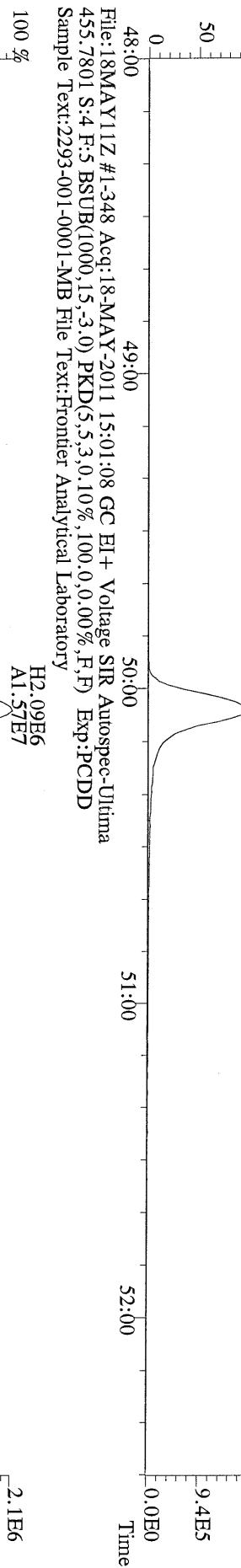
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 409.7974 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



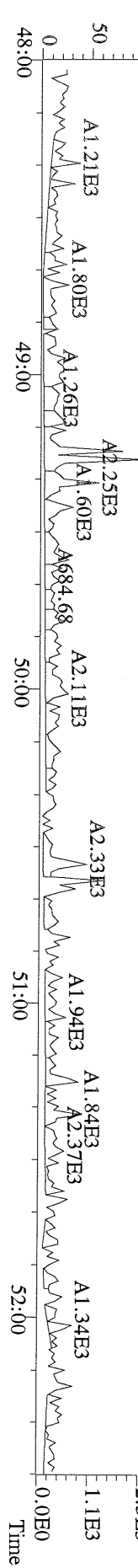
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
513.6775 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory

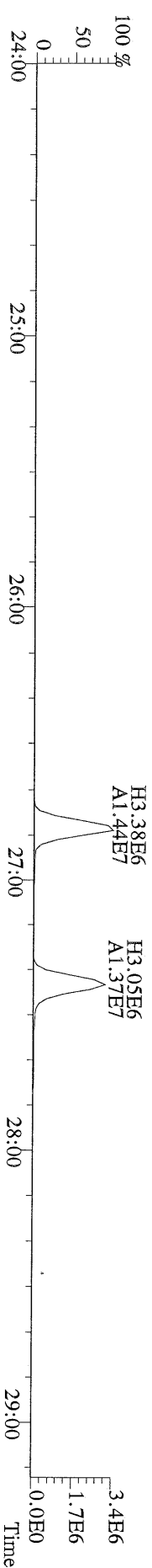
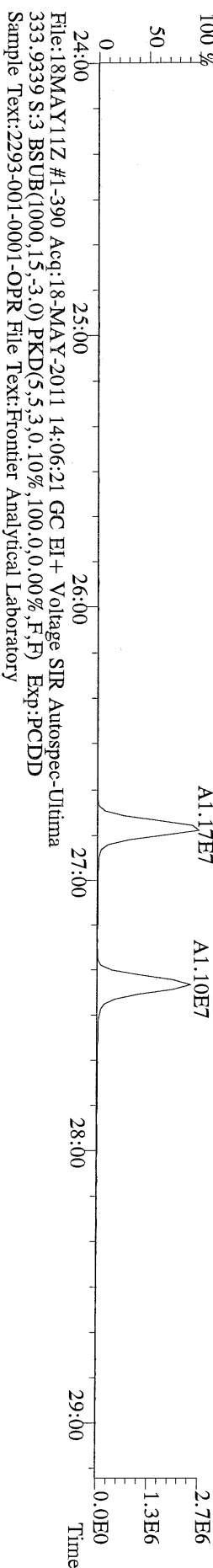
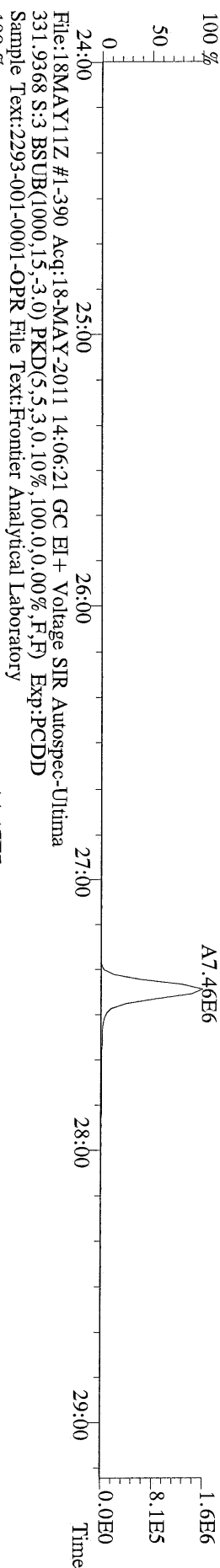
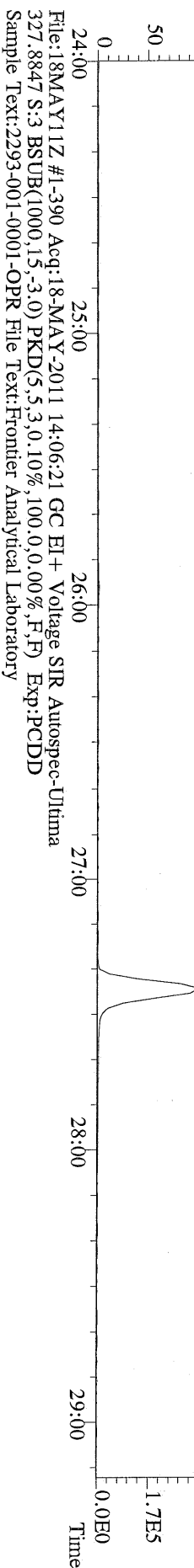
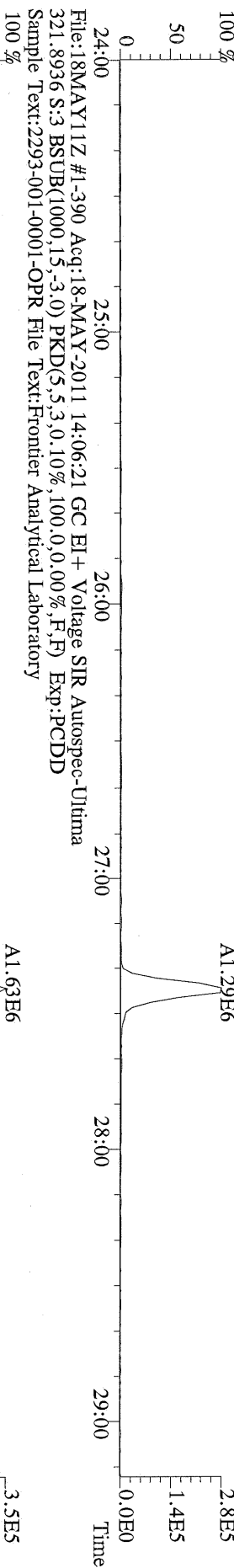


Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL
2,3,7,8-TCDD	2.92e+06	0.80 y	27:24	1.15	10.3	2.50	-	-	*	*
1,2,3,7,8-PeCDD	9.67e+06	1.56 y	33:16	1.02	56.8	2.50	-	-	*	*
1,2,3,4,7,8-HxCDD	8.60e+06	1.26 y	38:36	1.09	56.2	2.50	-	-	*	*
1,2,3,6,7,8-HxCDD	7.55e+06	1.25 y	38:46	1.08	56.9	2.50	-	-	*	*
1,2,3,7,8,9-HxCDD	8.53e+06	1.27 y	39:13	1.12	58.0	2.50	-	-	*	*
1,2,3,4,6,7,8-HpCDD	5.65e+06	1.03 y	44:11	1.03	58.8	2.50	-	-	*	*
OCDD	8.87e+06	0.88 y	49:42	1.21	111	2.50	-	-	*	*
2,3,7,8-TCDF	4.01e+06	0.77 y	26:38	1.09	10.7	2.50	-	-	*	*
1,2,3,7,8-PeCDF	1.32e+07	1.57 y	31:33	0.96	57.4	2.50	-	-	*	*
2,3,4,7,8-PeCDF	1.33e+07	1.58 y	32:51	0.96	57.2	2.50	-	-	*	*
1,2,3,4,7,8-HxCDF	1.00e+07	1.25 y	37:14	1.18	56.1	2.50	-	-	*	*
1,2,3,6,7,8-HxCDF	1.16e+07	1.25 y	37:25	1.03	56.9	2.50	-	-	*	*
2,3,4,6,7,8-HxCDF	1.13e+07	1.25 y	38:22	1.17	57.7	2.50	-	-	*	*
1,2,3,7,8,9-HxCDF	1.31e+07	1.24 y	39:48	1.27	58.1	2.50	-	-	*	*
1,2,3,4,6,7,8-HpCDF	8.46e+06	1.04 y	42:18	1.36	56.8	2.50	-	-	*	*
1,2,3,4,7,8,9-HpCDF	6.92e+06	1.03 y	45:06	1.35	56.2	2.50	-	-	*	*
OCDF	1.12e+07	0.89 y	50:05	0.97	119	2.50	-	-	*	*
13C-2,3,7,8-TCDD	2.48e+07	0.80 y	27:23	0.99	95.7				Rec	95.7
13C-1,2,3,7,8-PeCDD	1.67e+07	1.58 y	33:15	0.79	80.4					80.4
13C-1,2,3,4,7,8-HxCDD	1.41e+07	1.29 y	38:36	1.03	84.0					84.0
13C-1,2,3,6,7,8-HxCDD	1.22e+07	1.23 y	38:45	0.96	78.7					78.7
13C-1,2,3,4,6,7,8-HpCDD	9.31e+06	1.05 y	44:10	0.75	76.6					76.6
13C-OCDD	1.33e+07	0.92 y	49:41	0.50	162					81.1
13C-2,3,7,8-TCDF	3.46e+07	0.80 y	26:37	0.98	96.9					96.9
13C-1,2,3,7,8-PeCDF	2.39e+07	1.60 y	31:31	0.78	84.6					84.6
13C-2,3,4,7,8-PeCDF	2.41e+07	1.61 y	32:50	0.75	88.1					88.1
13C-1,2,3,4,7,8-HxCDF	1.51e+07	0.53 y	37:13	1.05	88.1					88.1
13C-1,2,3,6,7,8-HxCDF	1.97e+07	0.51 y	37:24	1.40	86.4					86.4
13C-2,3,4,6,7,8-HxCDF	1.67e+07	0.52 y	38:20	1.16	88.8					88.8
13C-1,2,3,7,8,9-HxCDF	1.78e+07	0.52 y	39:46	1.30	84.1					84.1
13C-1,2,3,4,6,7,8-HpCDF	1.09e+07	0.45 y	42:17	0.83	81.4					81.4
13C-1,2,3,4,7,8,9-HpCDF	9.14e+06	0.45 y	45:05	0.69	81.0					81.0
13C-OCDF	1.95e+07	0.89 y	50:03	0.77	156					77.8
37Cl-2,3,7,8-TCDD	7.46e+06		27:24	0.71	40.1					100
13C-1,2,3,4-TCDD	2.62e+07	0.81 y	26:49	-	49.1					
13C-1,2,3,4-TCDF	3.64e+07	0.80 y	25:32	-	48.7					
13C-1,2,3,7,8,9-HxCDD	1.63e+07	1.29 y	39:12	-	42.1					
Total Tetra-Dioxins	3.18e+06		23:01	1.15	11.2	2.50	-	-	*	25
Total Penta-Dioxins	9.91e+06		31:30	1.02	58.2	2.50	-	-	*	11
Total Hexa-Dioxins	2.50e+07		38:36	1.10	174	2.50	-	-	*	15
Total Hepta-Dioxins	5.94e+06		42:50	1.03	61.8	2.50	-	-	*	27
Total Tetra-Furans	4.42e+06		22:59	1.09	11.8	2.50	-	-	*	27
1st Fn. Tot Penta-Furans	2.16e+05		22:46	0.96	0.934	2.50	-	-	*	PeCDF 27
Total Penta-Furans	2.74e+07		30:17	0.96	118	2.50	-	-	*	119 14
Total Hexa-Furans	4.62e+07		35:17	1.16	230	2.50	-	-	*	9
Total Hepta-Furans	1.60e+07		42:18	1.36	117	2.50	-	-	*	25

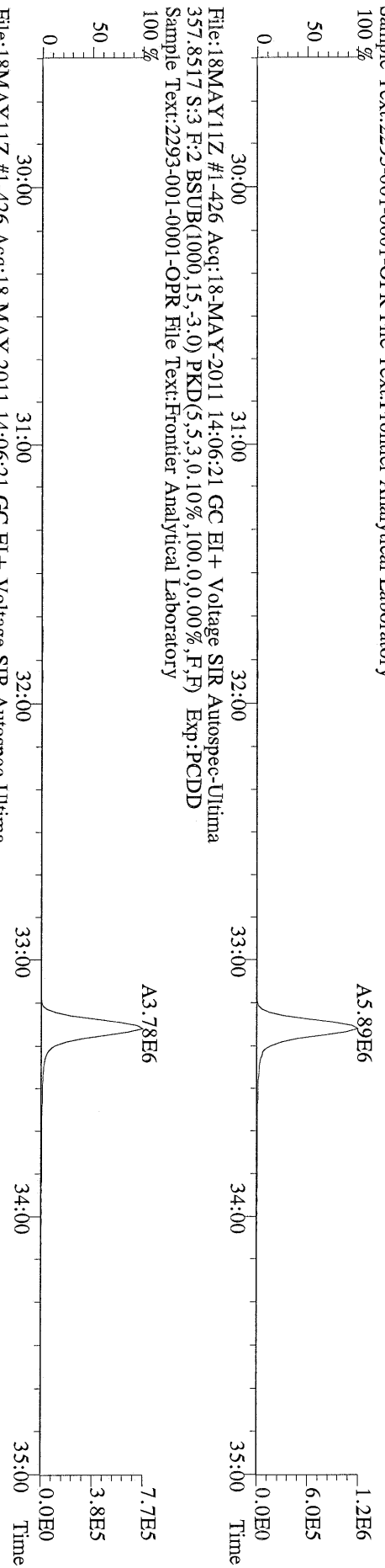
Analyst: J

Date: 5/19/11

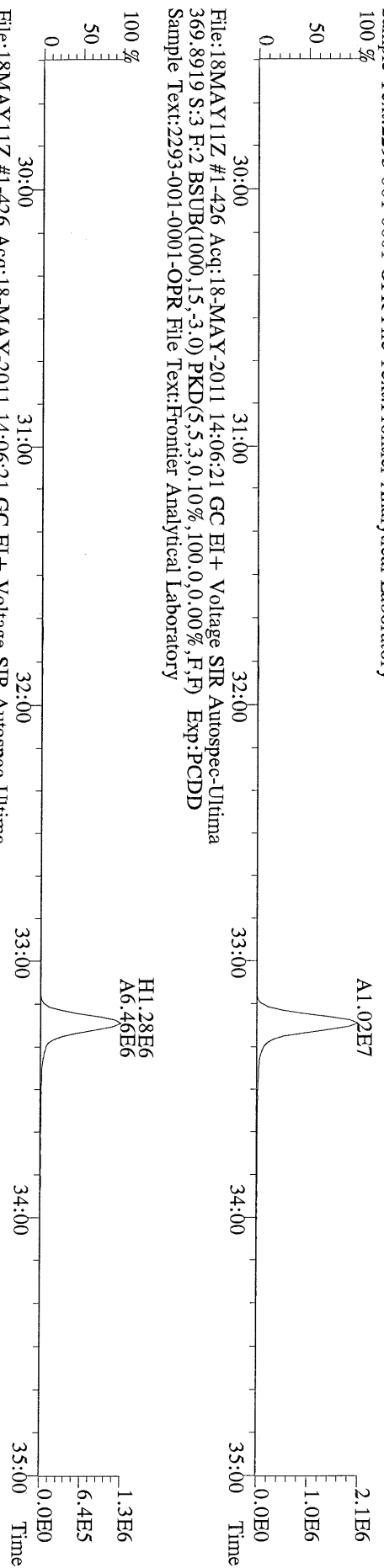
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319.8965 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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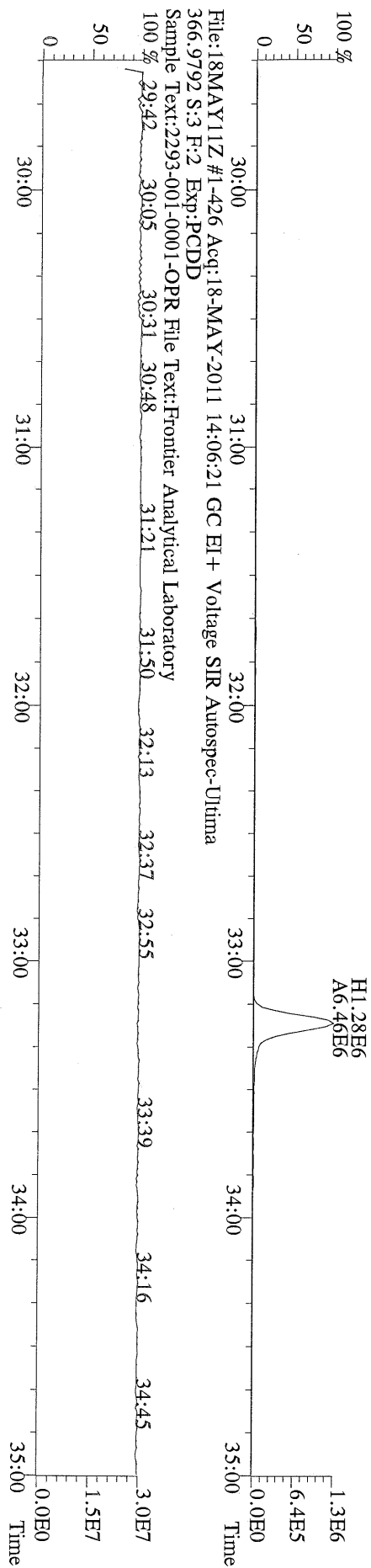
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



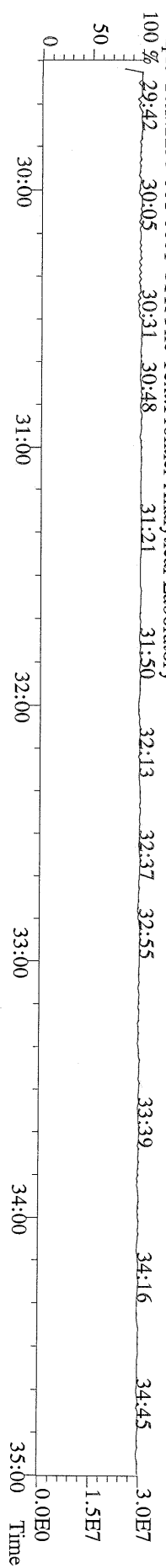
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367.8949 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



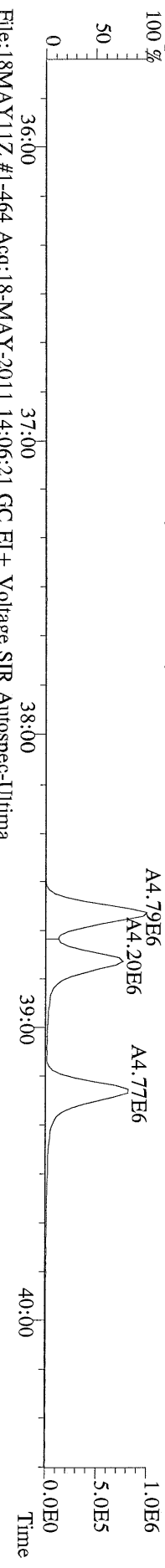
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



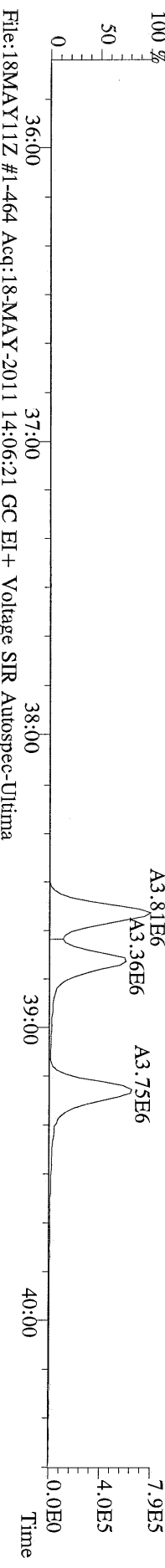
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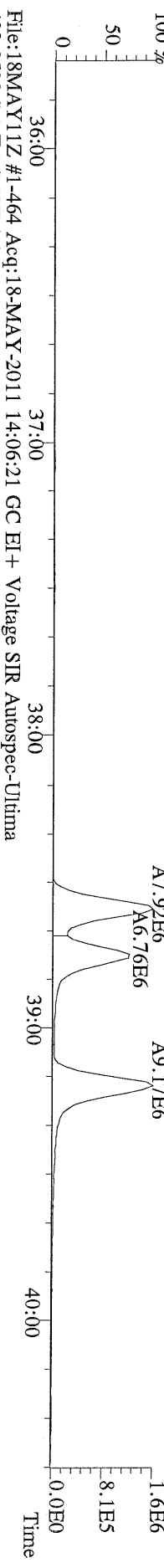
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389.8156 S:3 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



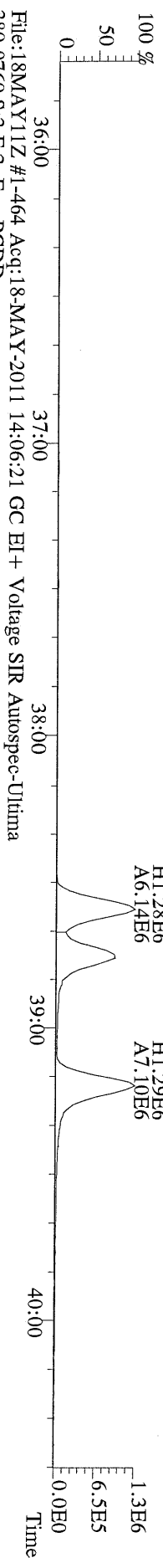
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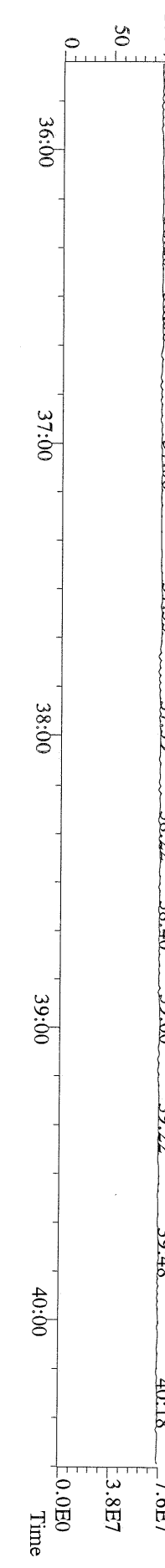
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



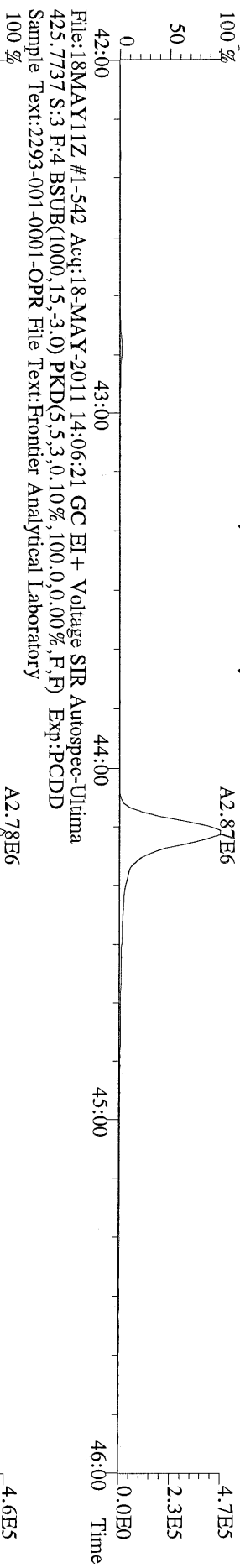
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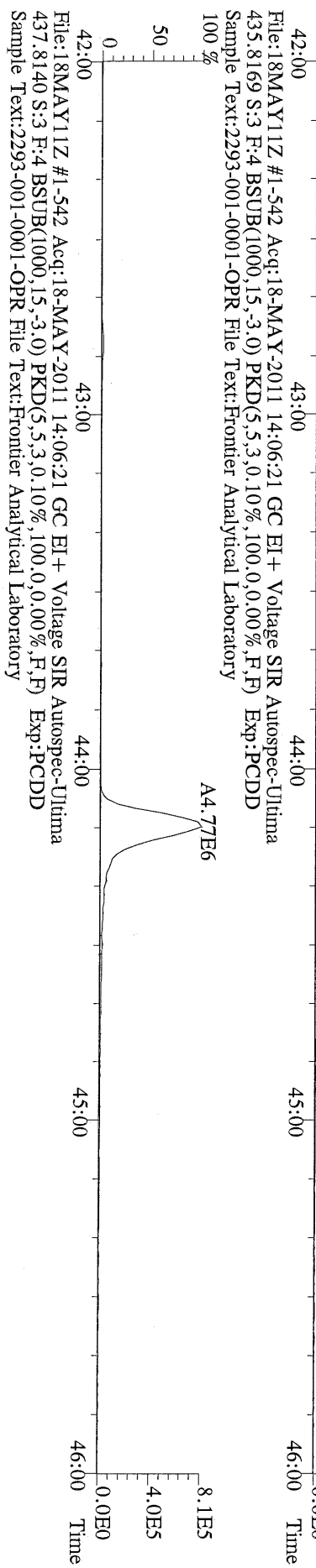
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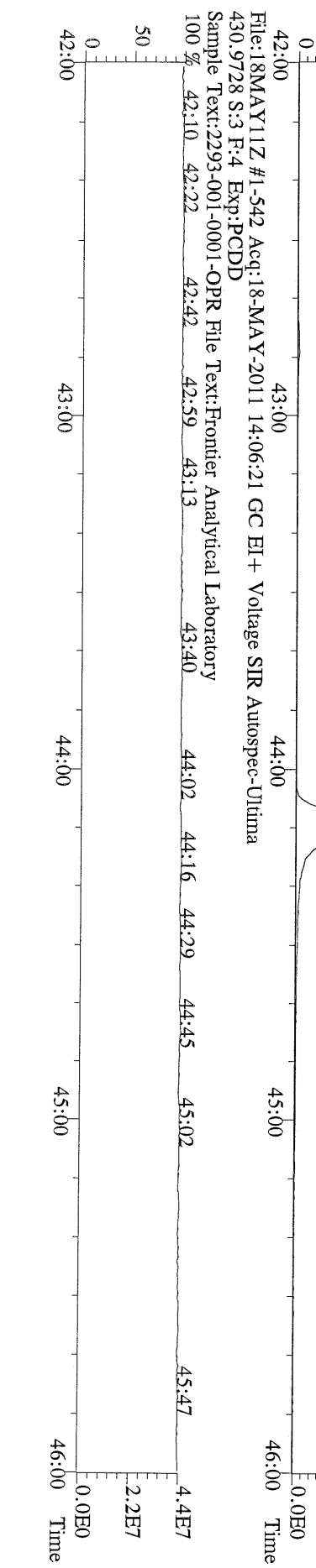
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423.7767 S:3 F:4 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-542 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
425.7737 S:3 F:4 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



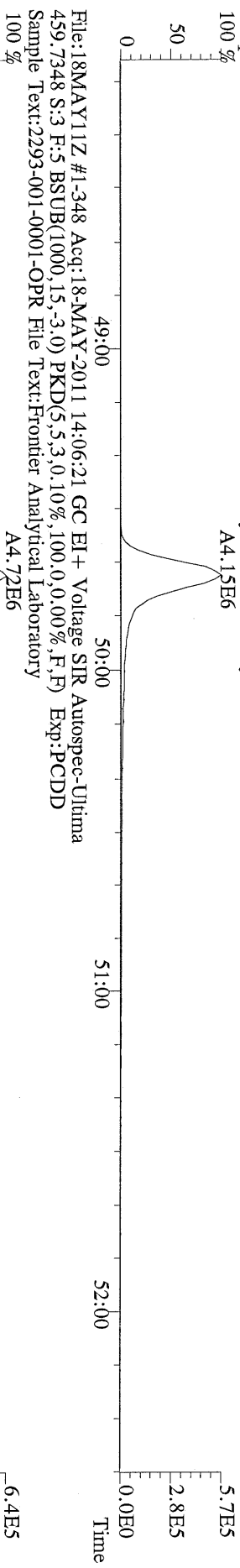
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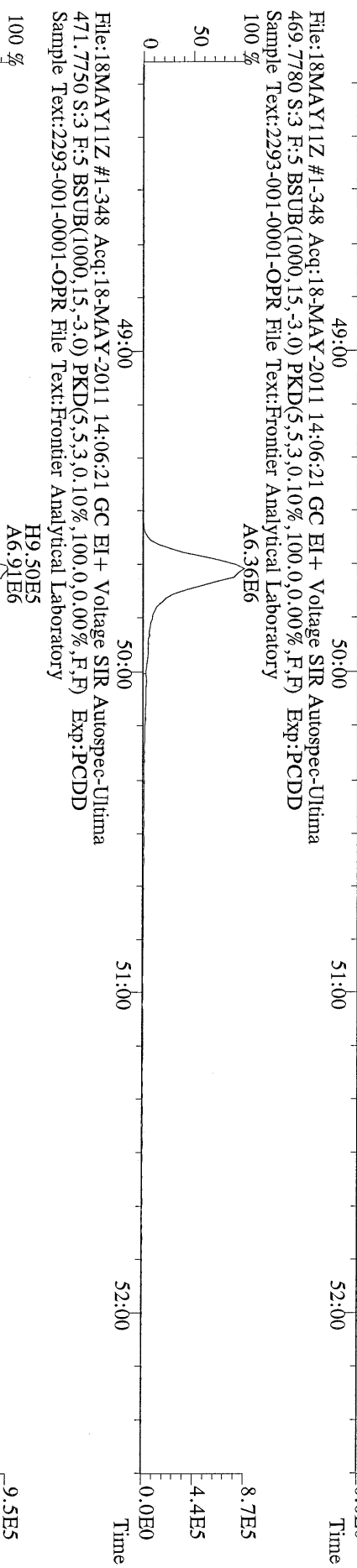
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



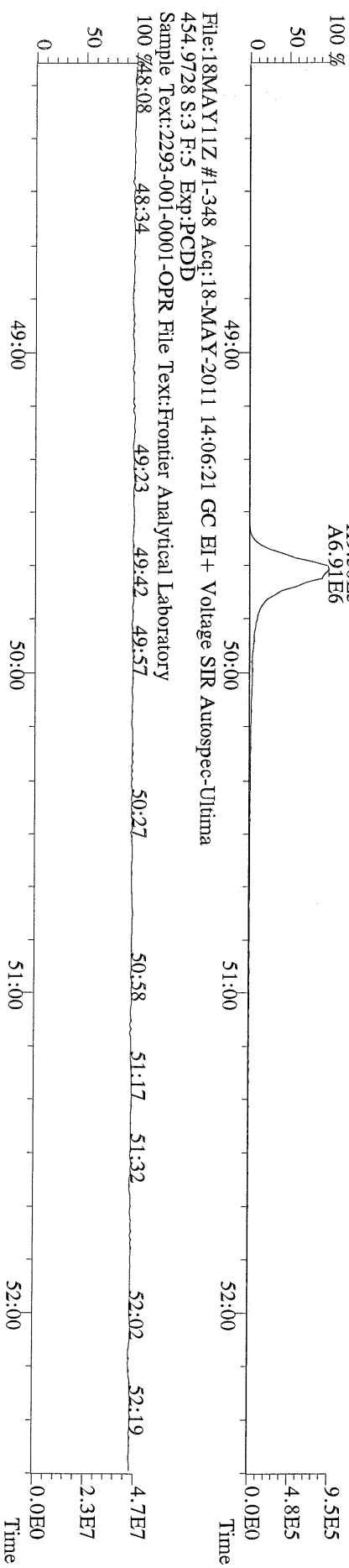
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457.7377 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



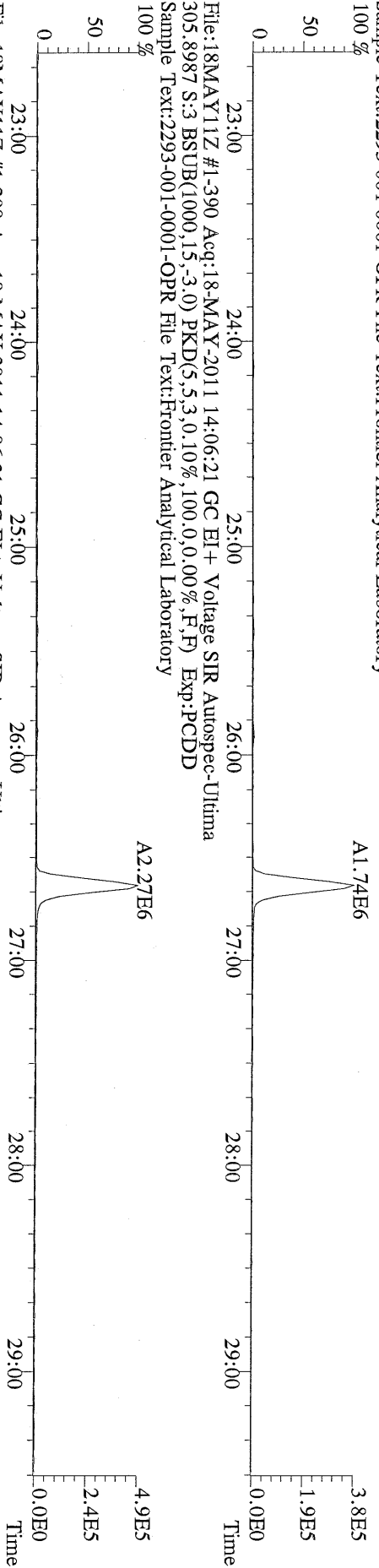
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469.7780 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



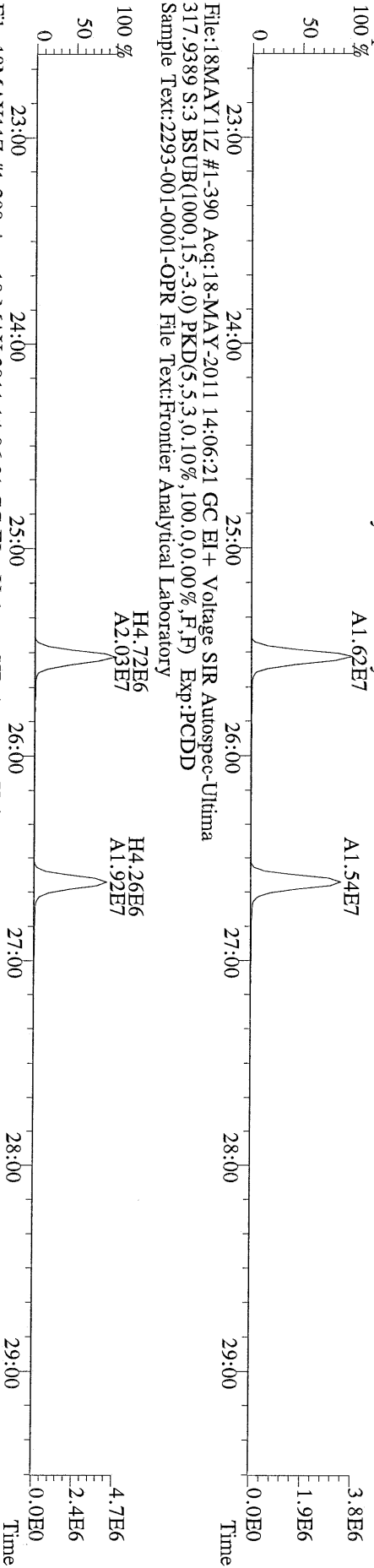
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471.7750 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



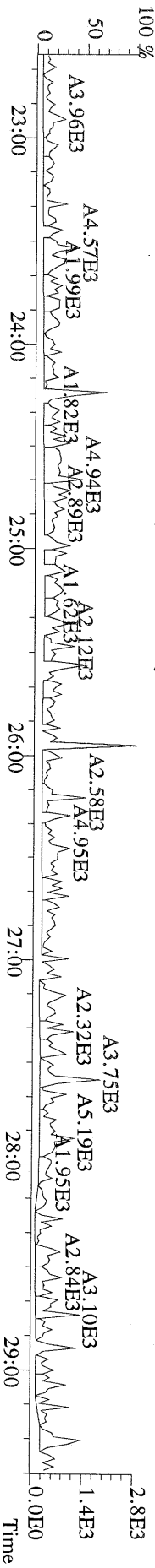
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



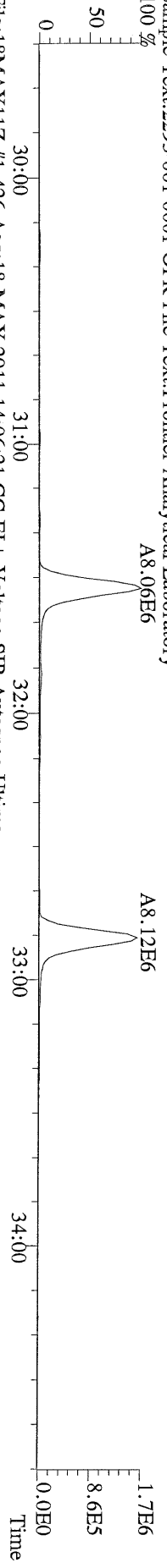
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315.9419 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



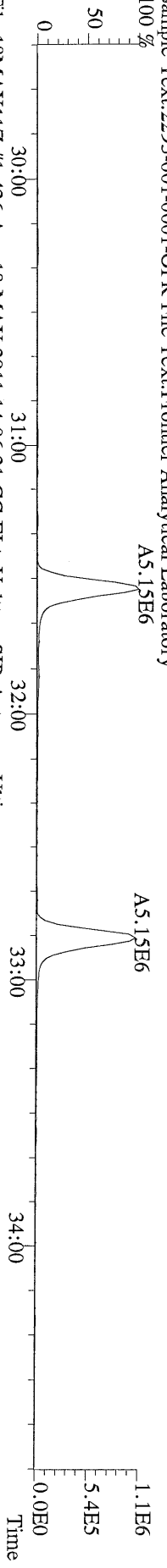
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375.8364 S:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



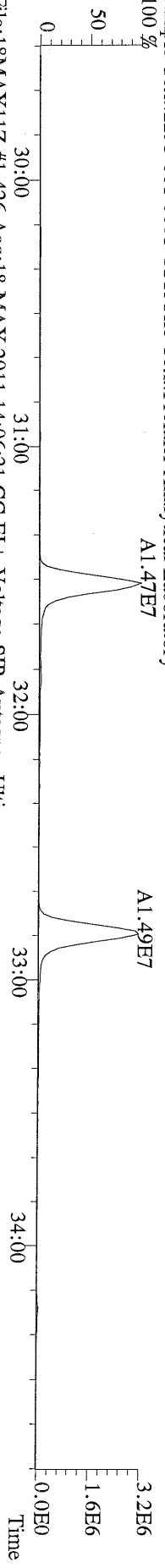
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 Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



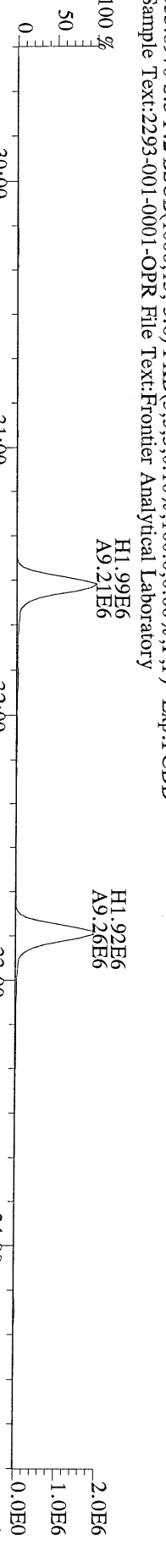
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 Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



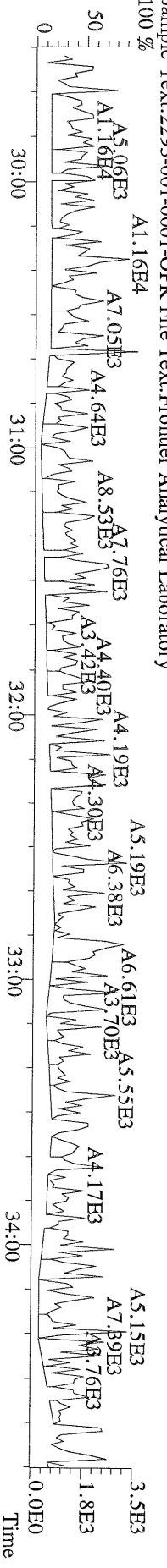
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 351.9000 S:3 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



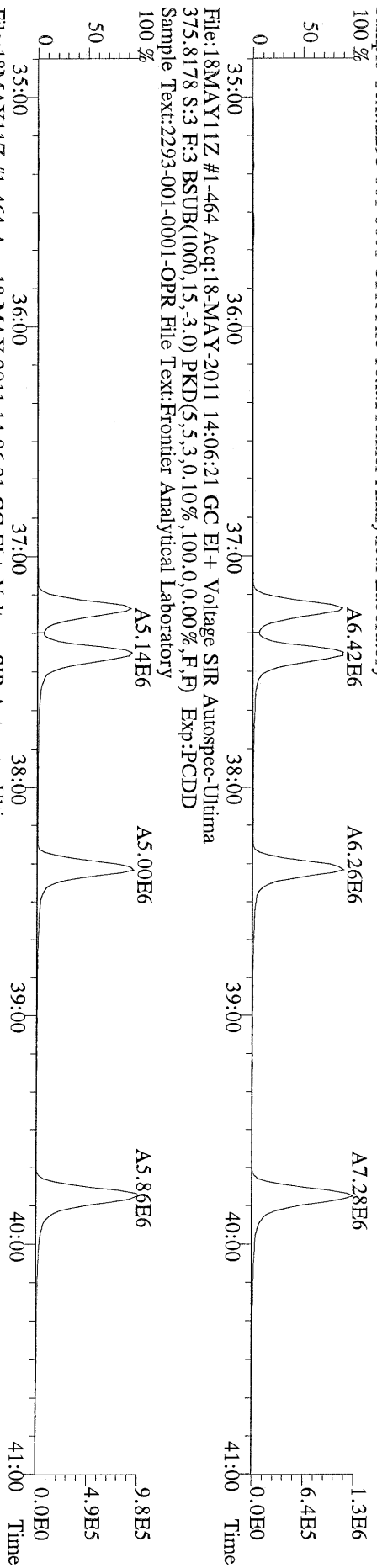
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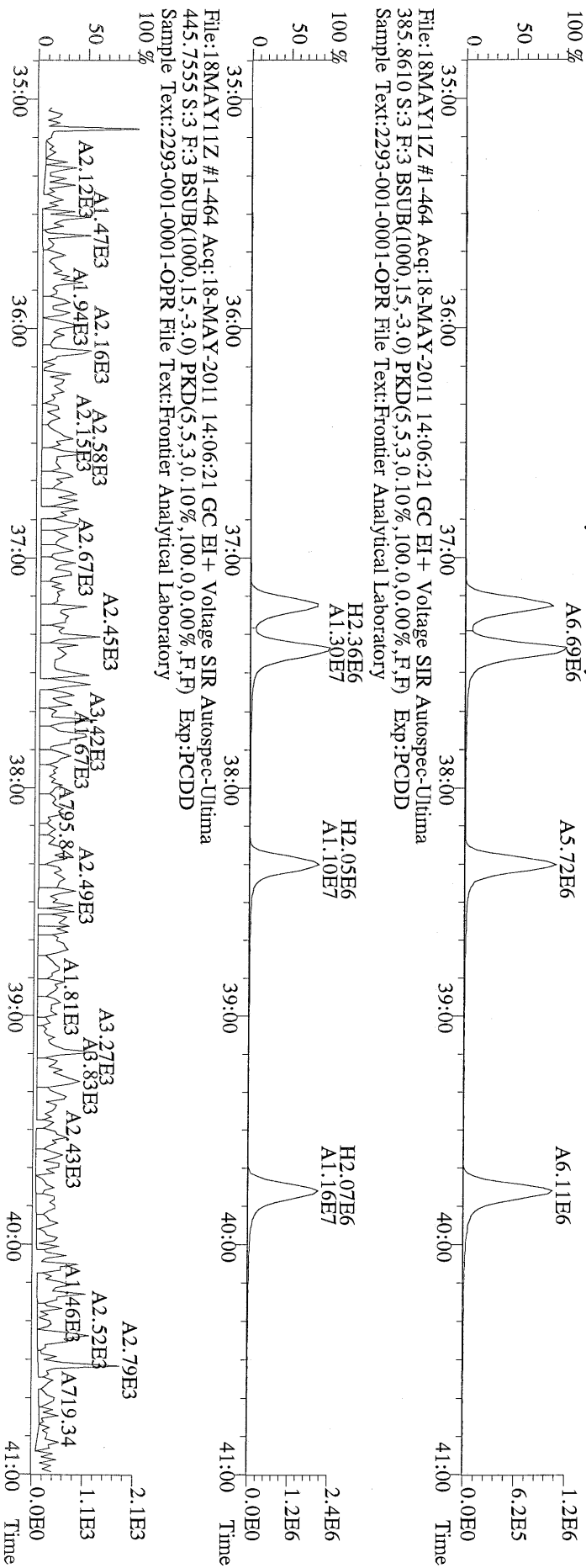
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 Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



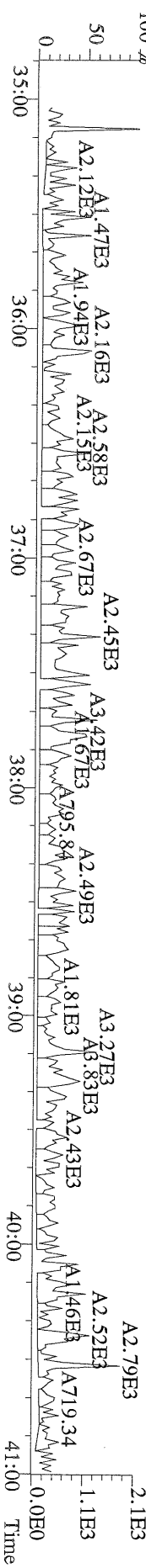
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373.8207 S:3 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



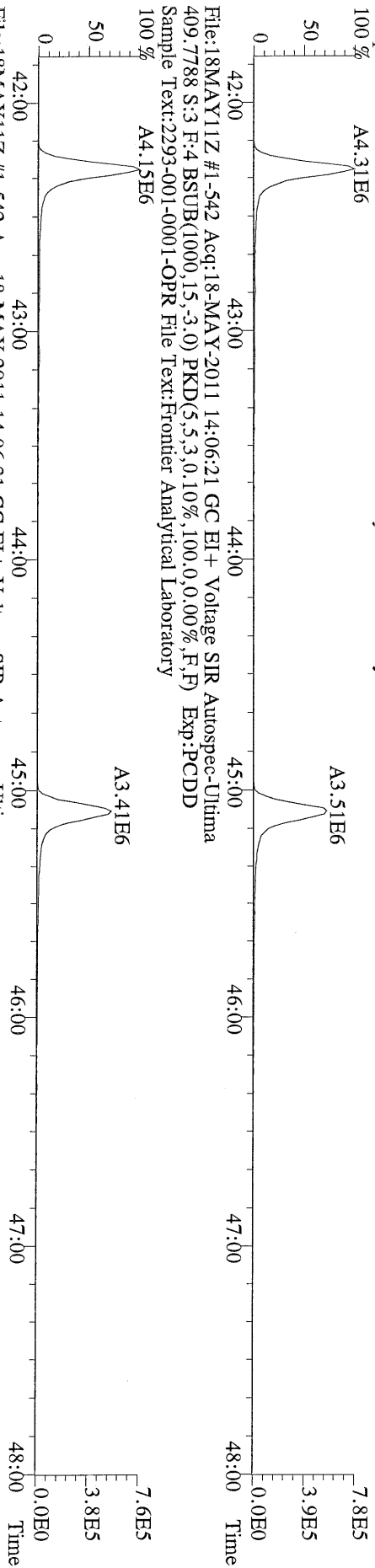
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



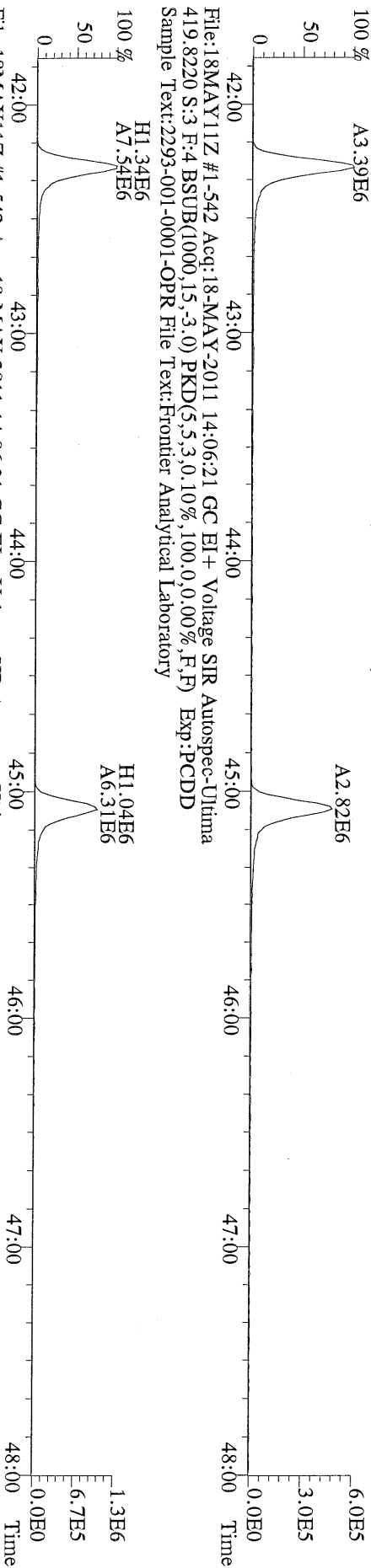
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445.7555 S:3 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



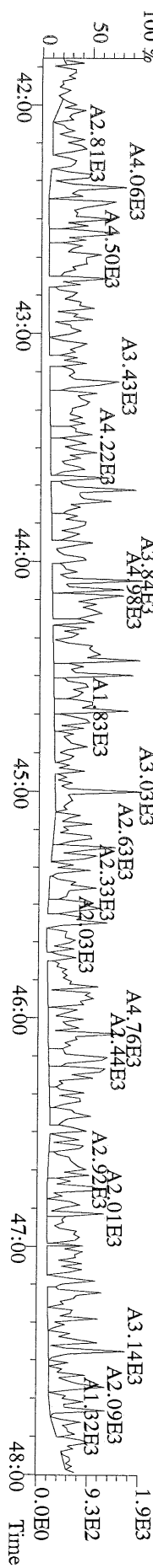
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407.7818 S:3 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



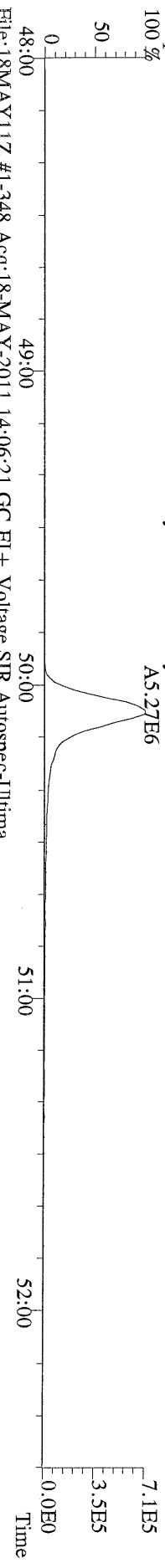
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



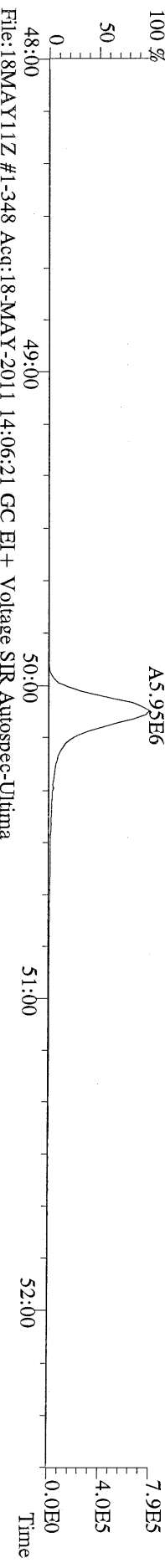
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory
100 %



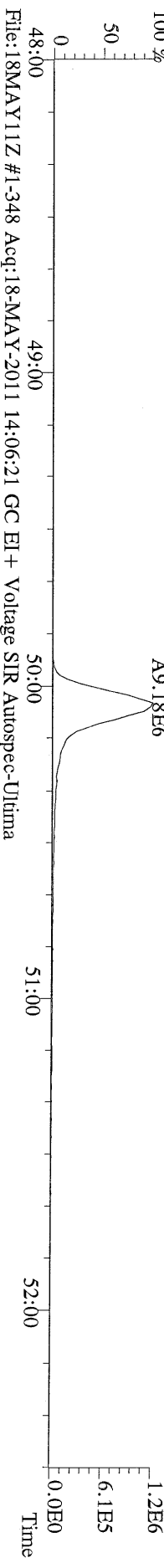
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441.7428 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 14:06:21 GC EI+ Voltage SIR Autospec-Ultima
443.7398 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



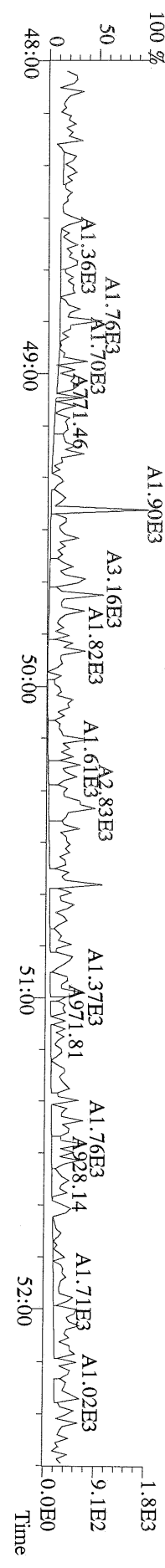
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453.7831 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



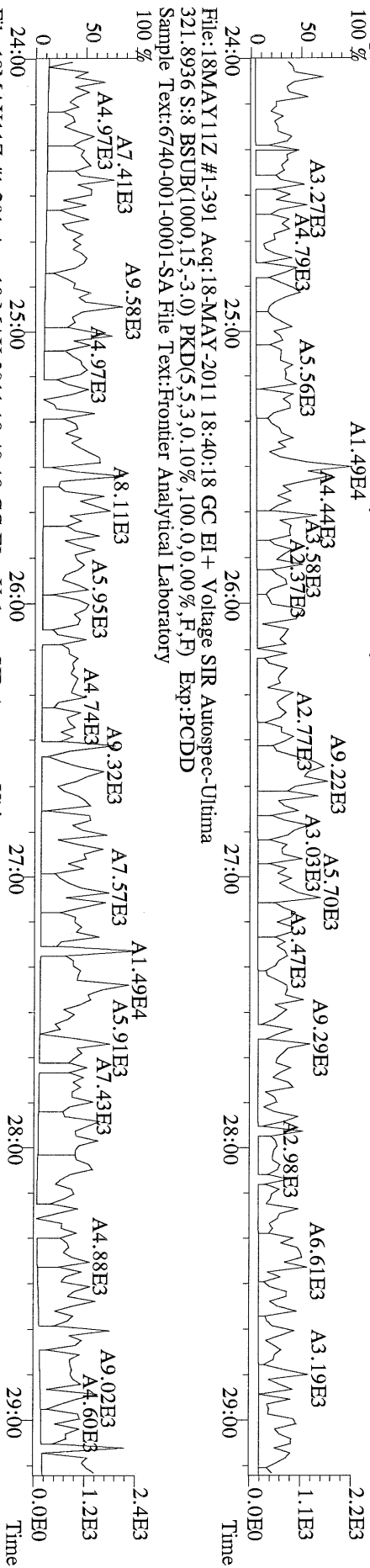
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455.7801 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



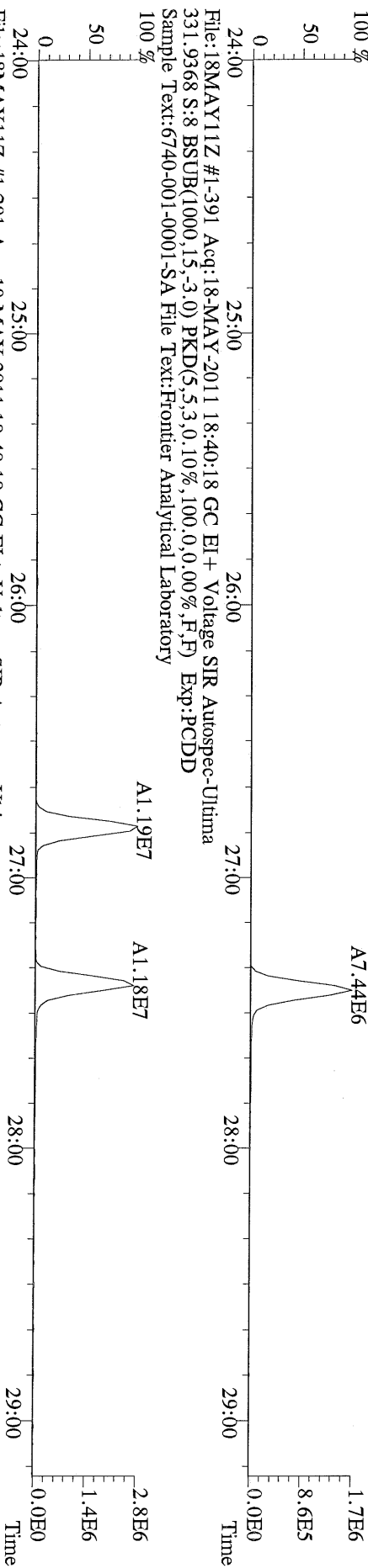
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513.6775 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



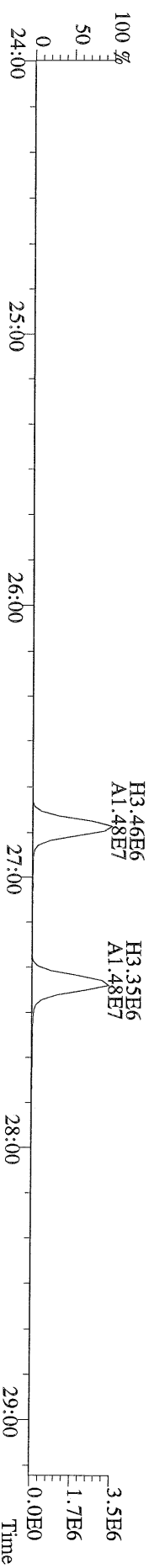
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319.8965 S:8 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



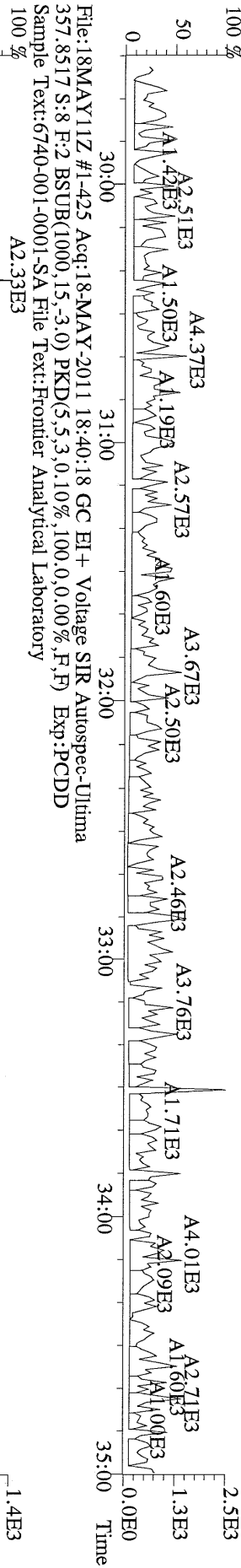
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327.8847 S:8 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



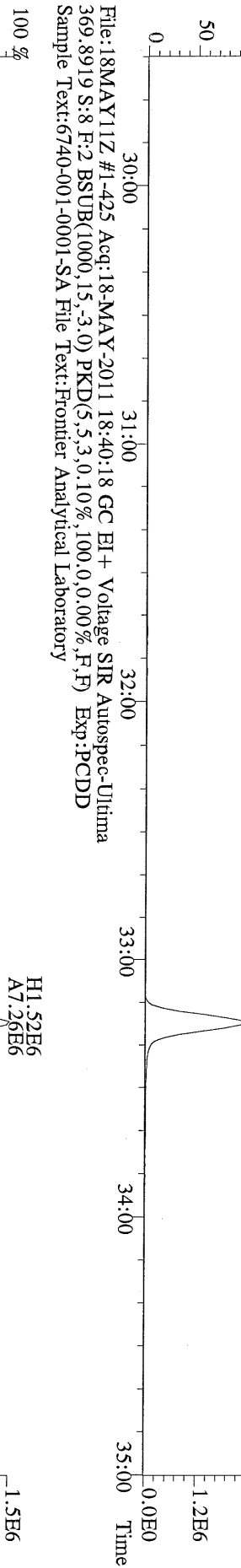
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333.9339 S:8 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



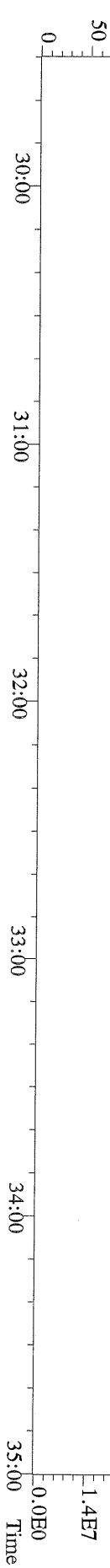
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 355.8546 S:8 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



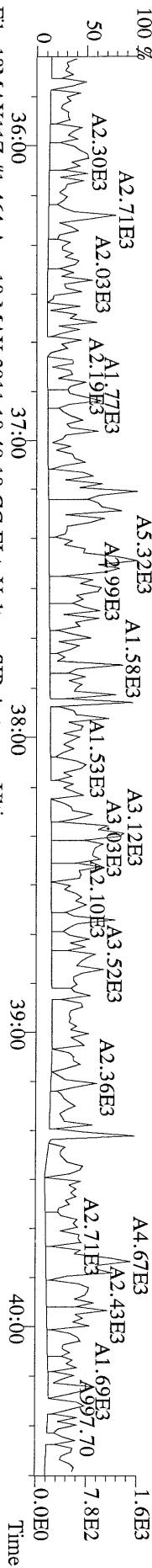
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 367.8949 S:8 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



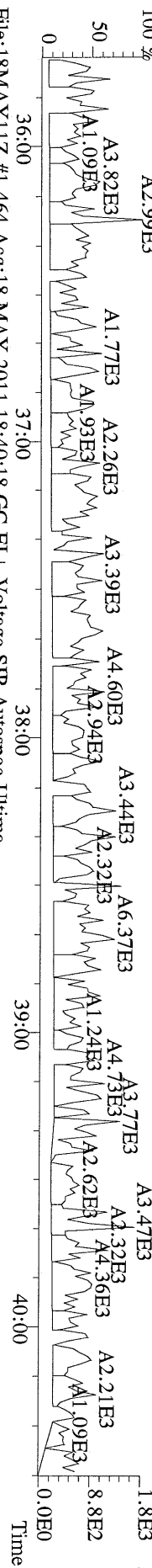
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 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



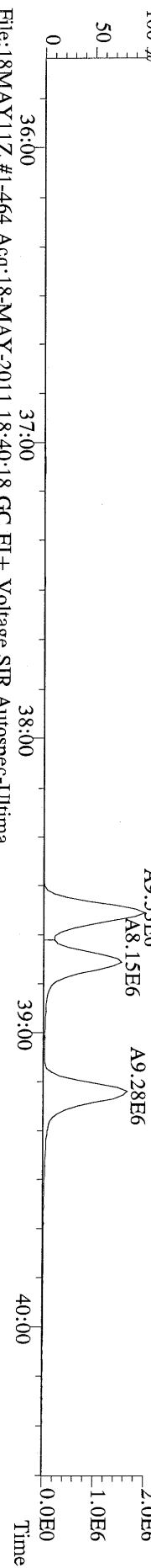
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 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



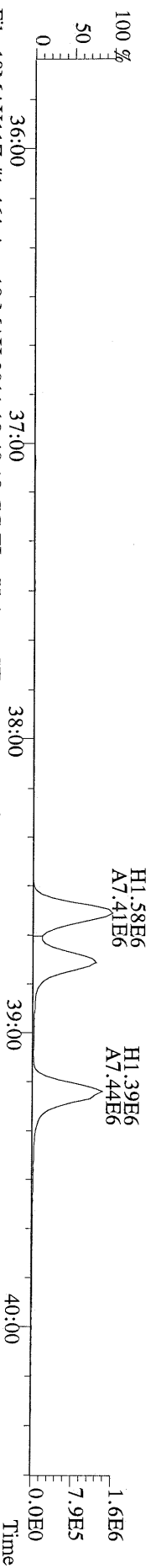
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 391.8127 S:8 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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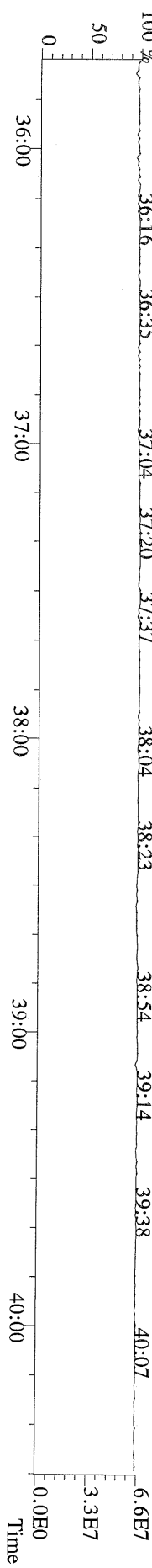
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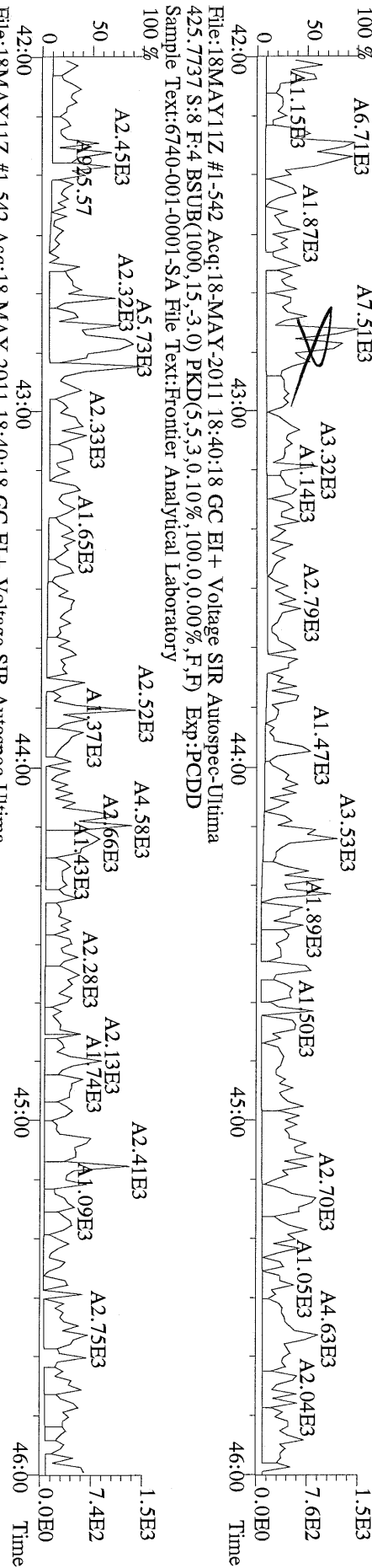
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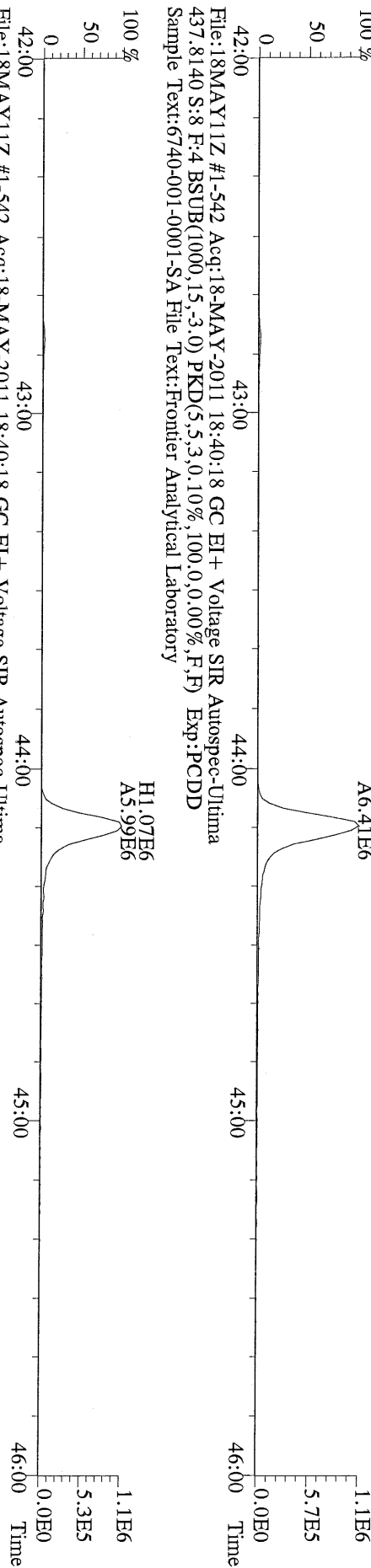
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 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



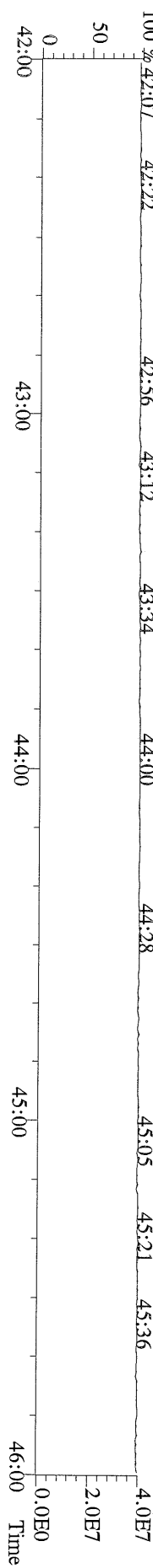
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Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



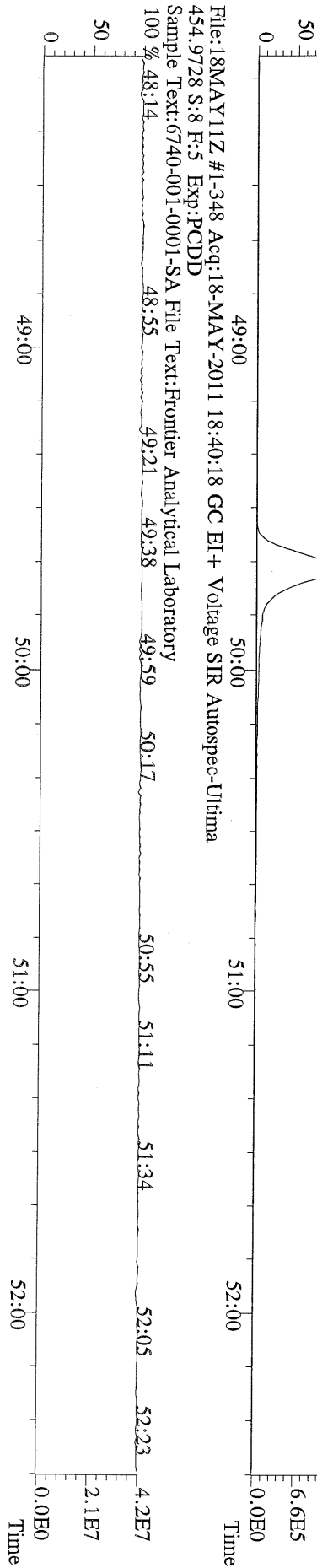
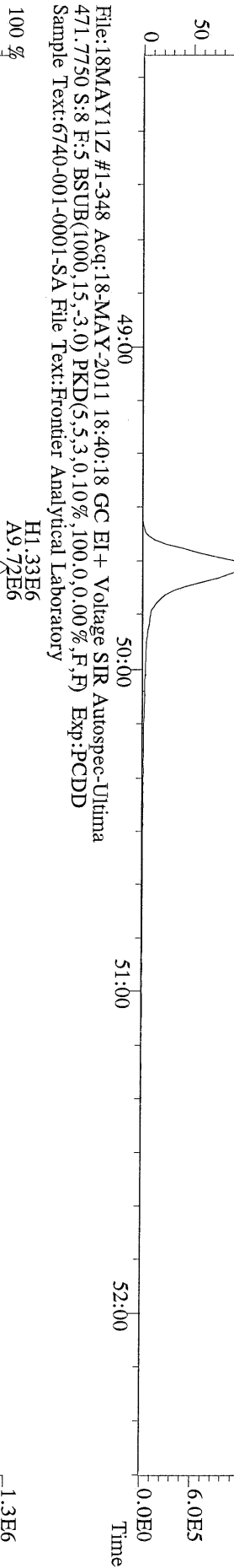
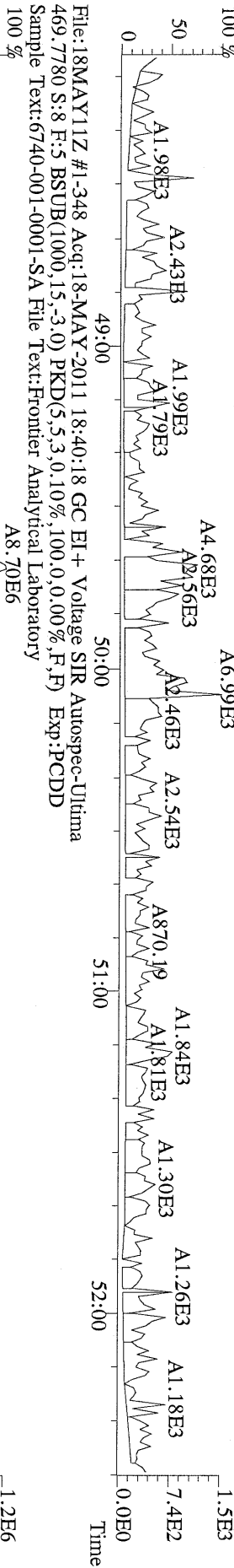
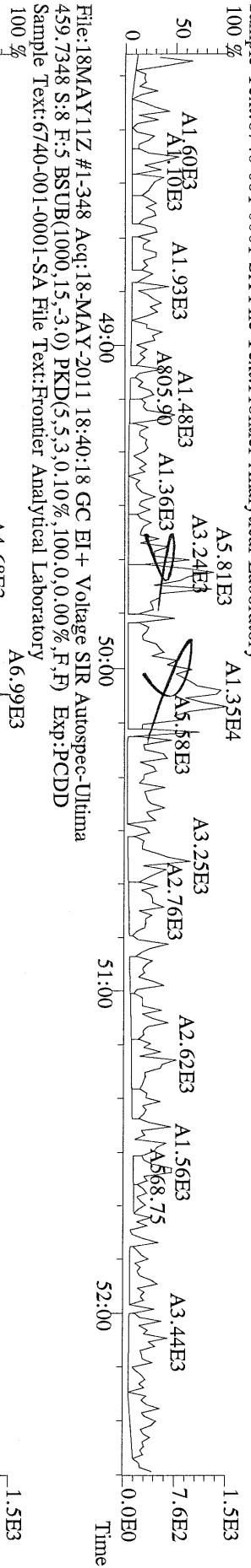
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Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



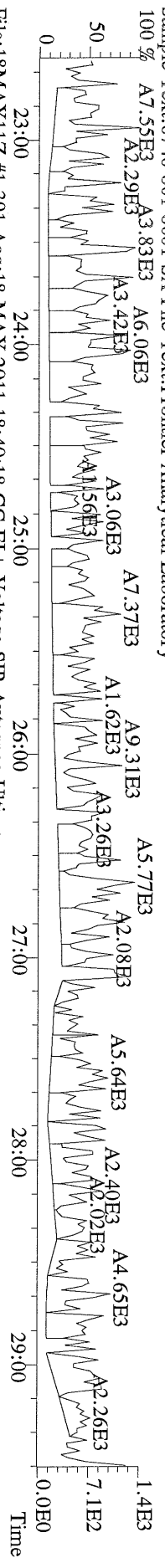
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Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



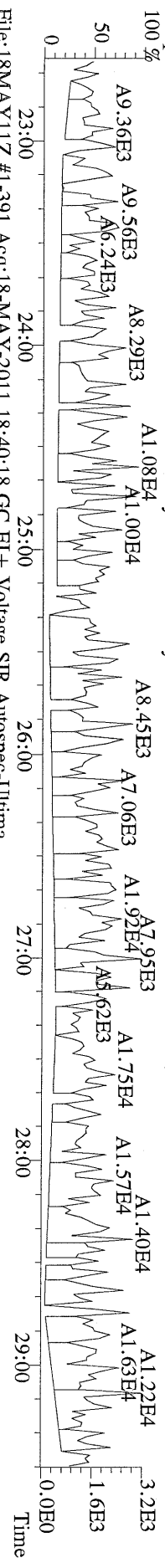
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457.7377 S:8 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



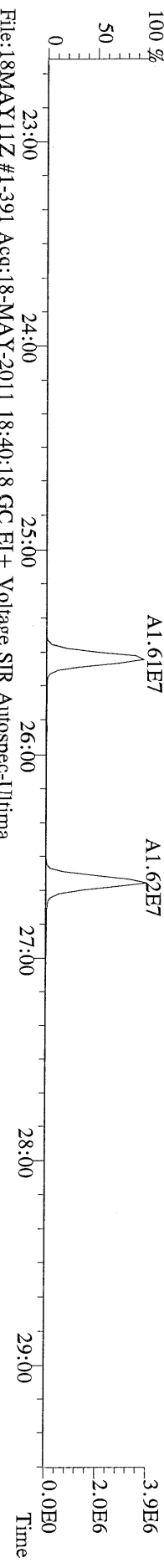
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 303.9016 S:8 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text: 6740-001-0001-SA File Text: Frontier Analytical Laboratory



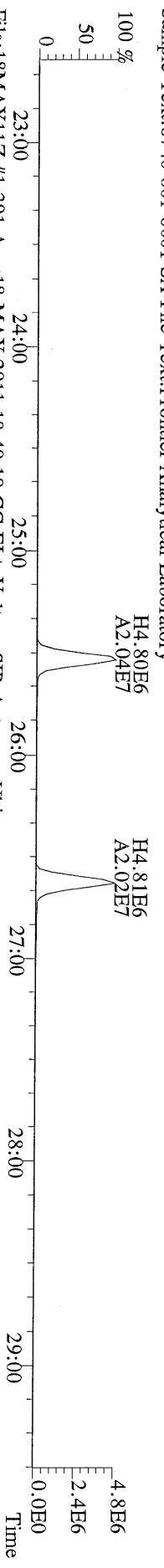
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 305.8987 S:8 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text: 6740-001-0001-SA File Text: Frontier Analytical Laboratory



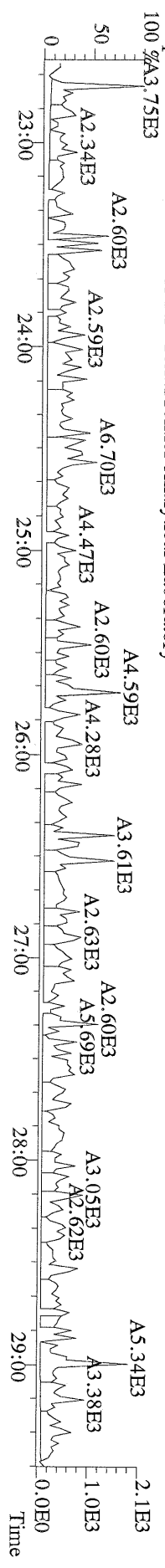
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 Sample Text: 6740-001-0001-SA File Text: Frontier Analytical Laboratory



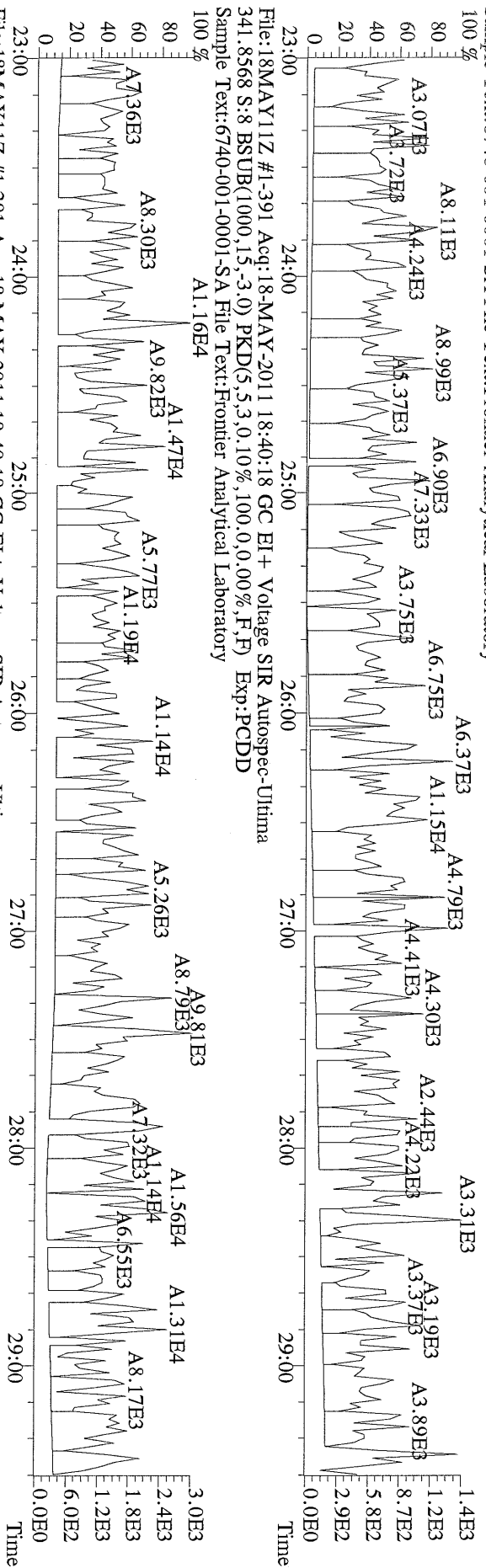
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 Sample Text: 6740-001-0001-SA File Text: Frontier Analytical Laboratory



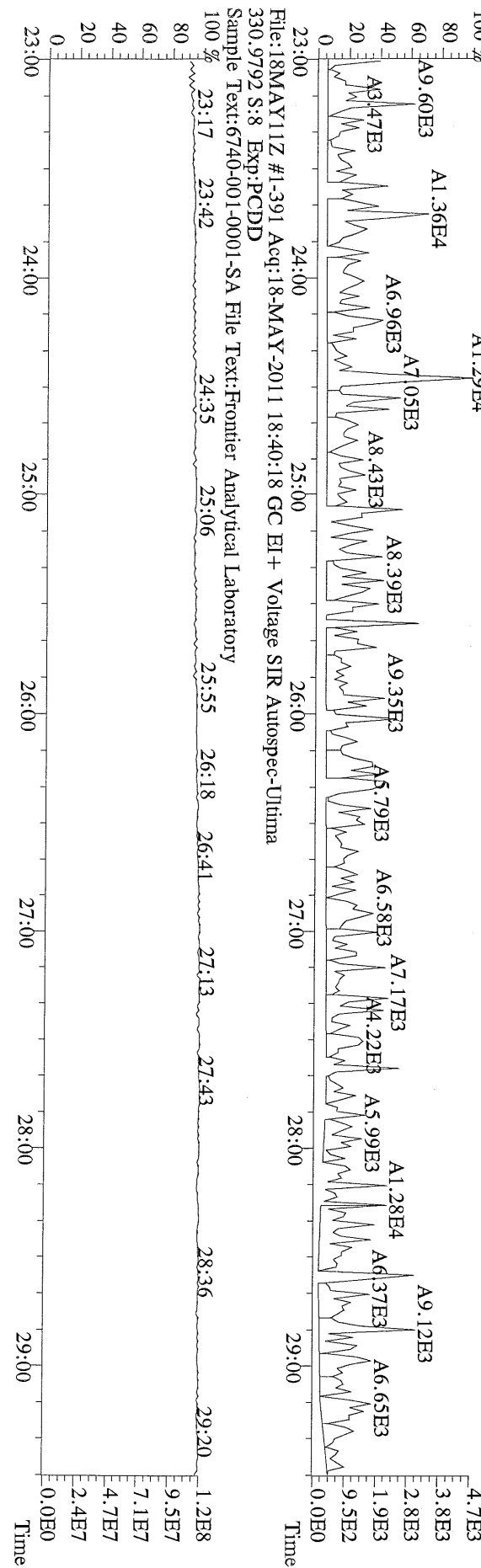
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 Sample Text: 6740-001-0001-SA File Text: Frontier Analytical Laboratory



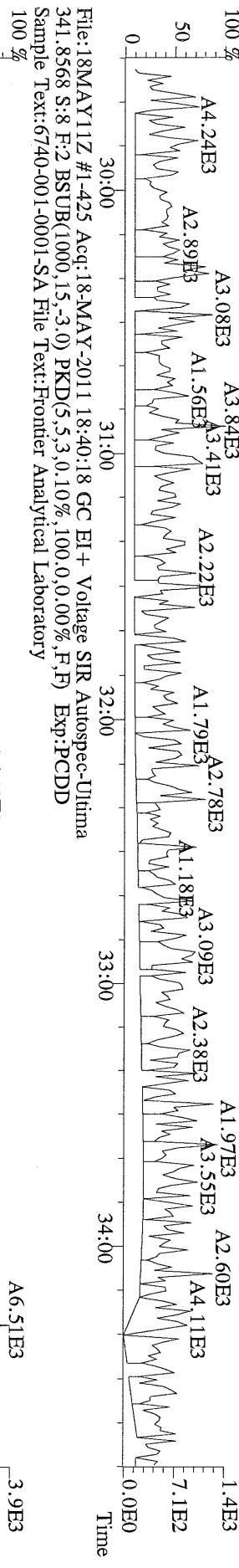
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 339.8597 S:8 BSUB(1000,15,-3.0) PKD(5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



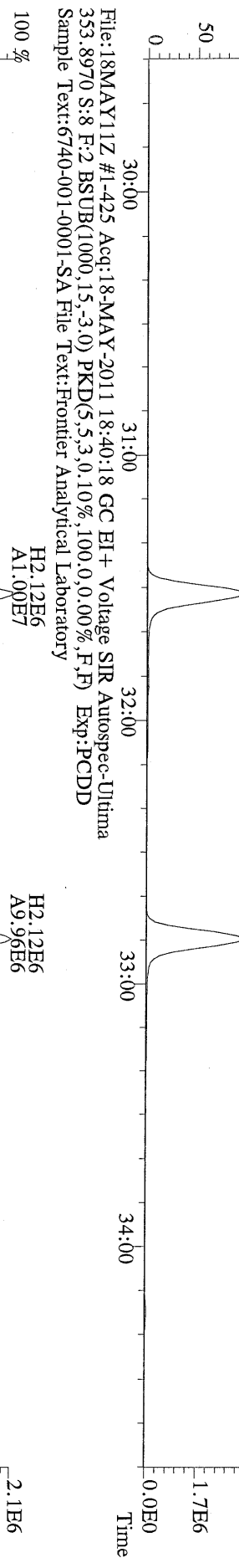
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 409.7974 S:8 BSUB(1000,15,-3.0) PKD(5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



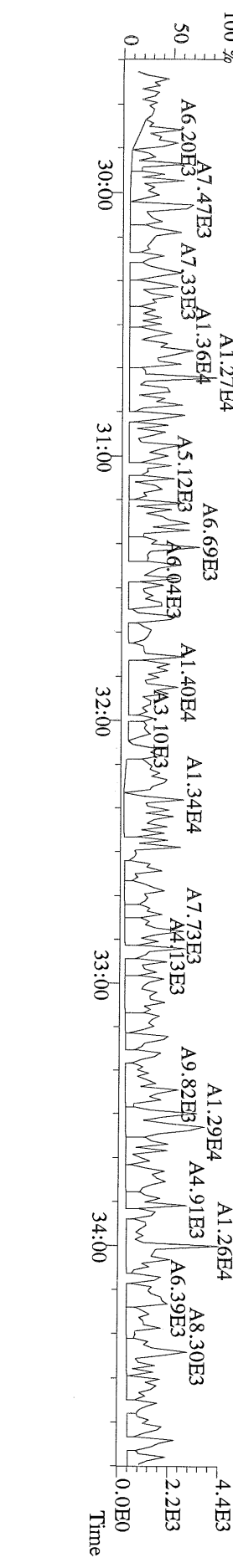
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Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



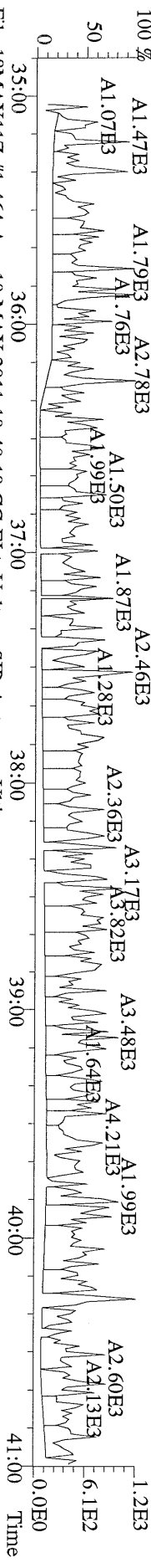
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351.9000 S:8 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



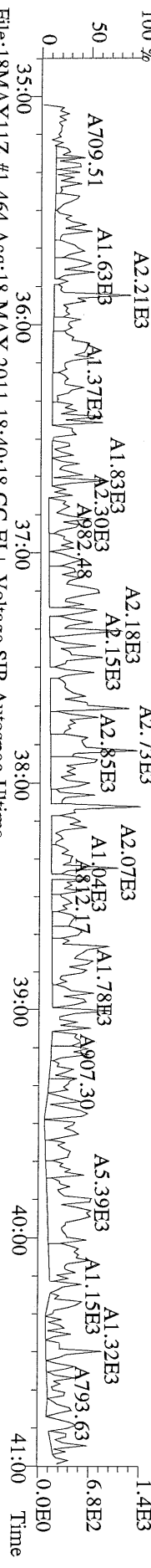
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409.7974 S:8 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



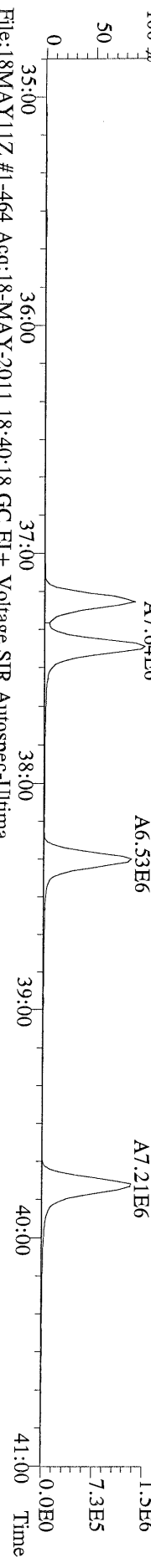
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373.8207 S:8 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



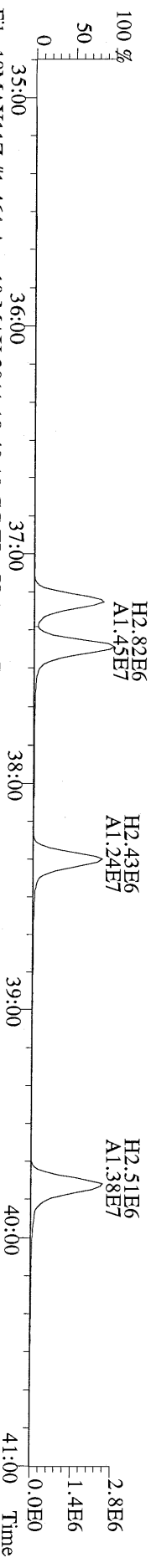
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375.8178 S:8 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-464 Acq:18-MAY-2011 18:40:18 GC EI+ Voltage SIR Autospec-Ulhma
383.8639 S:8 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-464 Acq:18-MAY-2011 18:40:18 GC EI+ Voltage SIR Autospec-Ulhma
385.8610 S:8 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-464 Acq:18-MAY-2011 18:40:18 GC EI+ Voltage SIR Autospec-Ulhma
445.7555 S:8 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory

