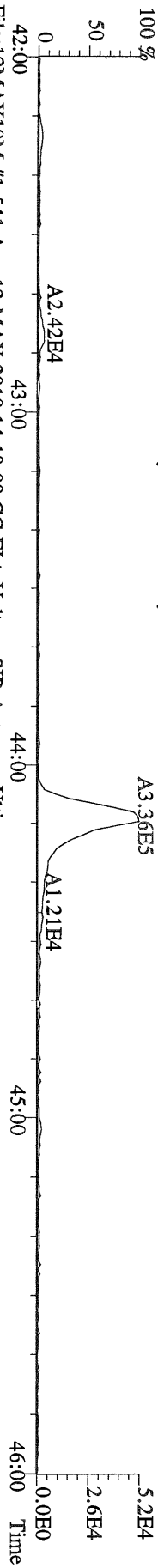
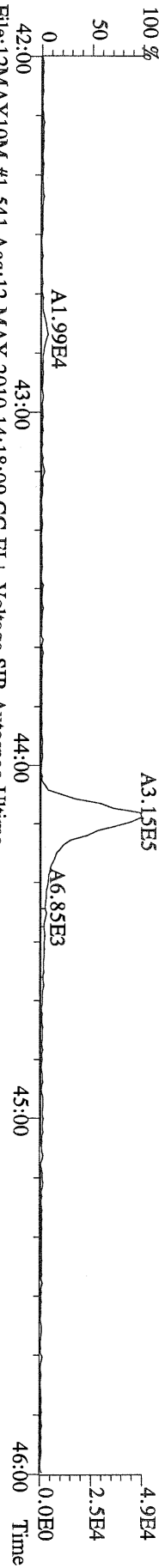


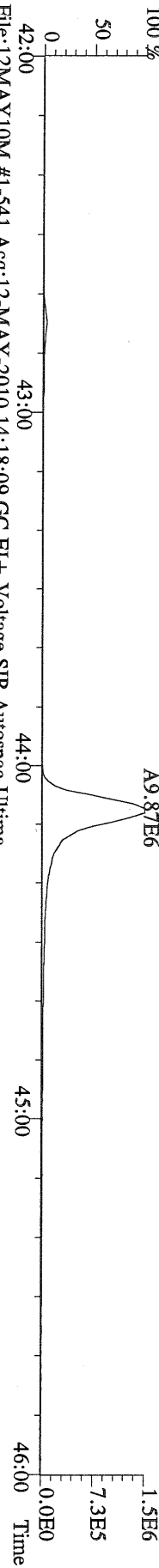
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423.7767 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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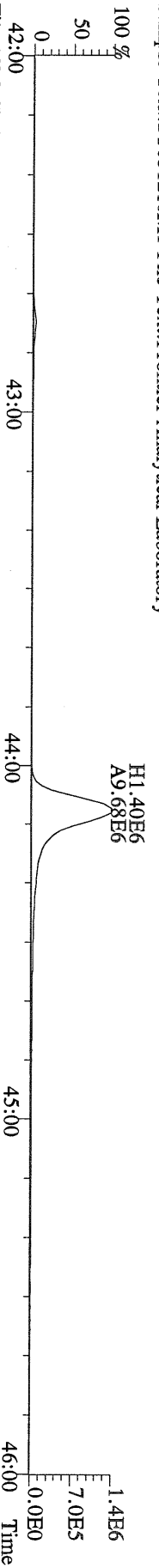
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425.7737 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



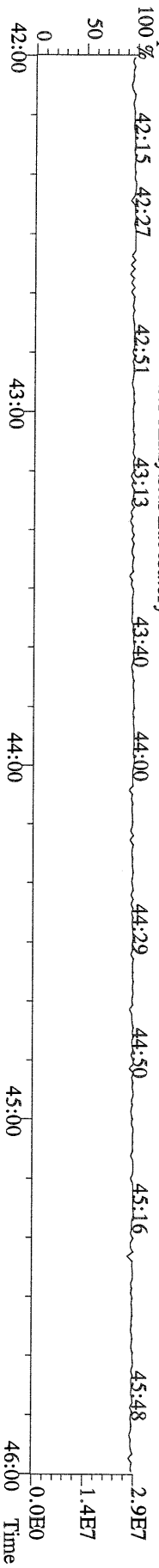
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435.8169 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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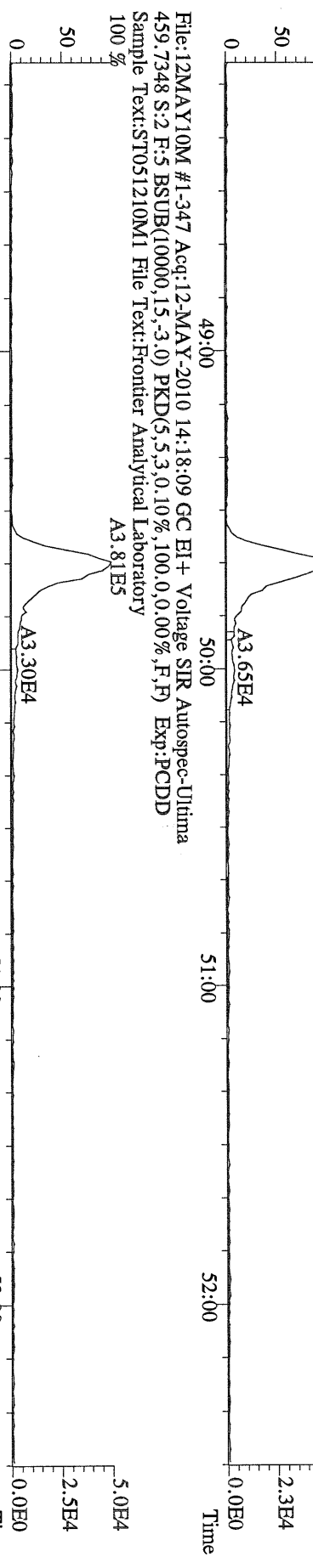
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437.8140 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



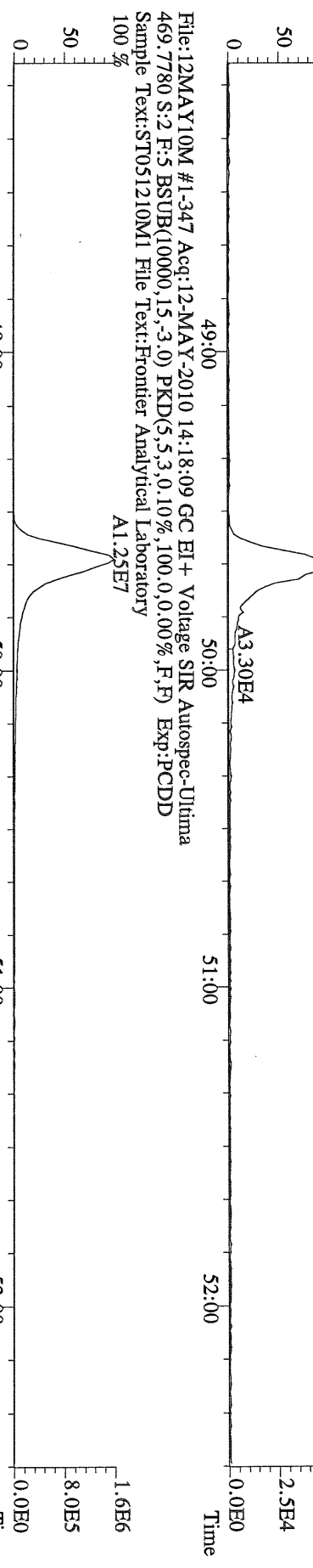
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430.9728 S:2 F:4 Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



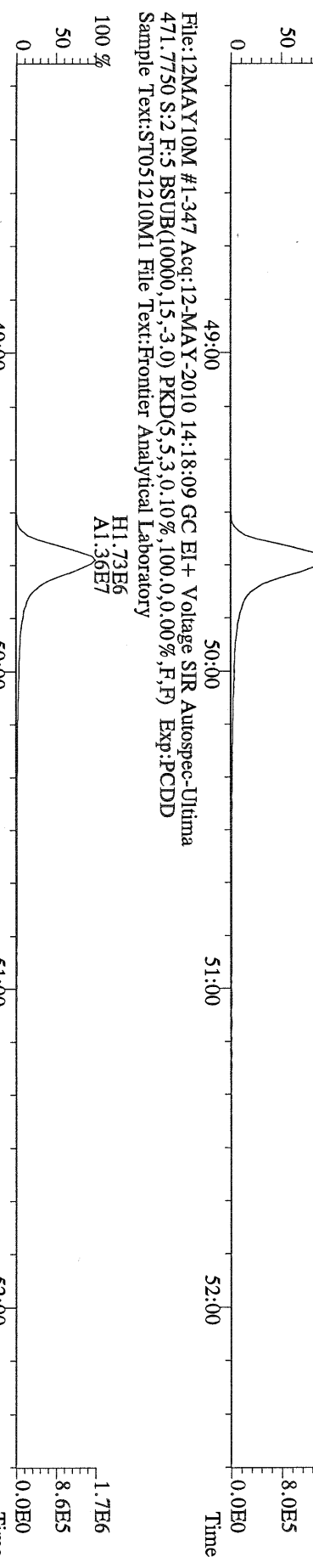
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457.7377 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
100 %



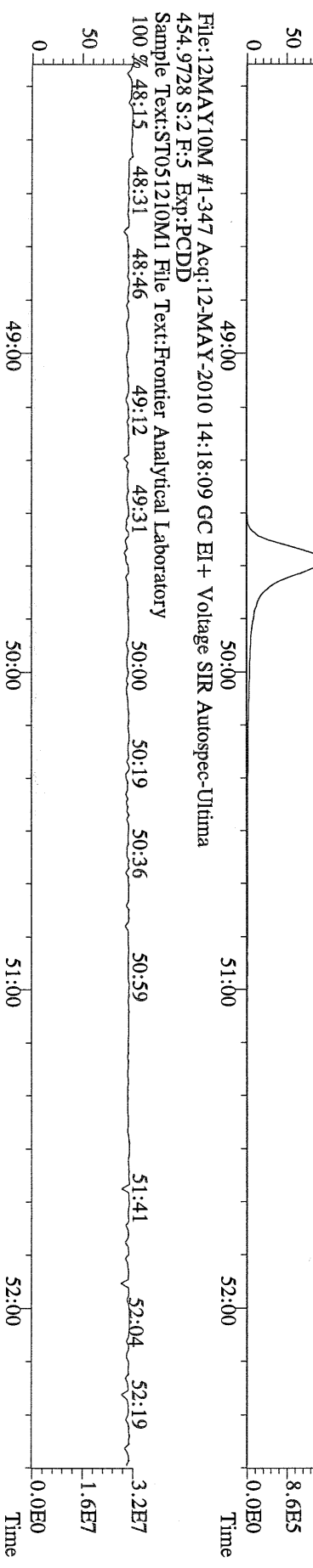
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Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
100 %



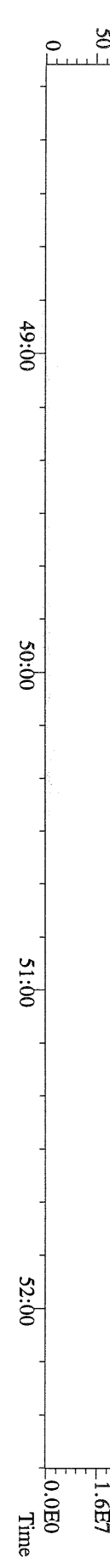
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Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
100 %



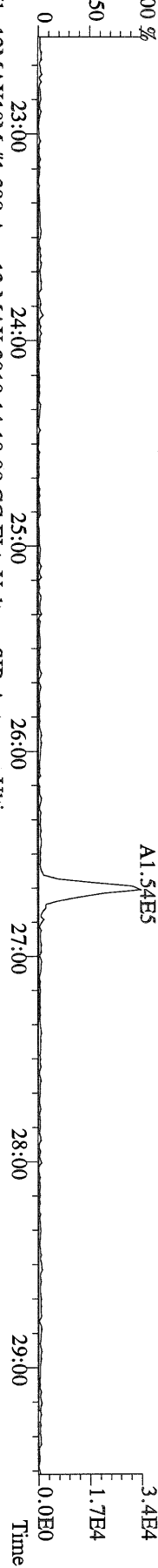
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Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
100 %



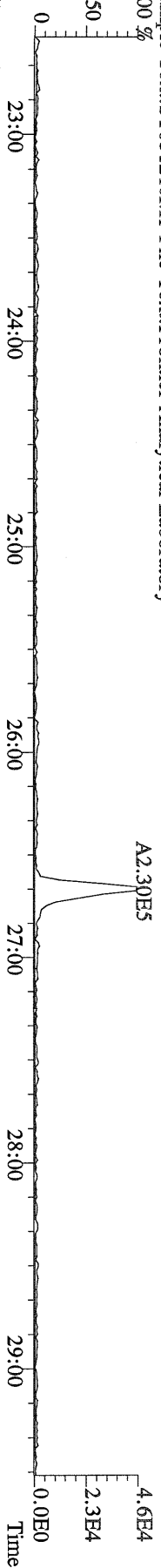
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Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
100 %



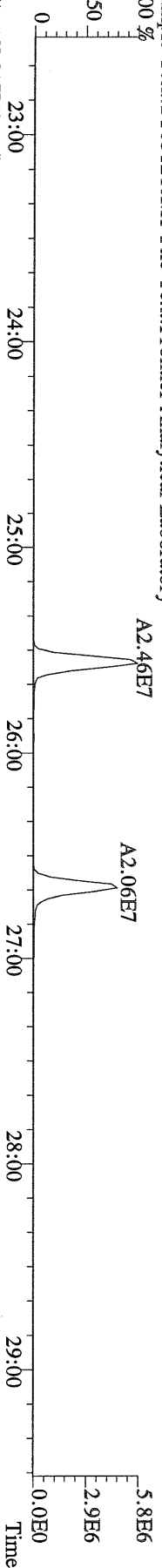
File:12MAY10M #1-390 Acq:12-MAY-2010 14:18:09 GC EI + Voltage SIR Autospec-Ultima
 303.9016 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



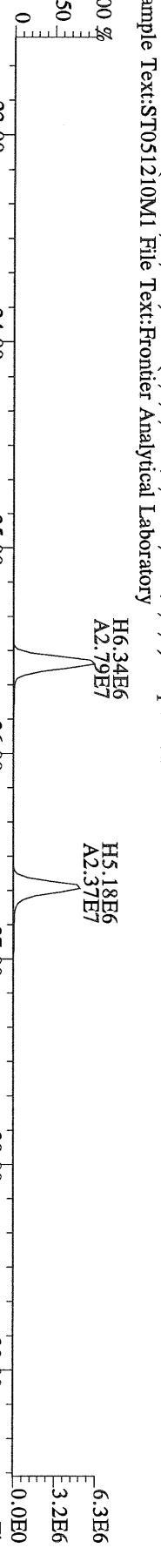
File:12MAY10M #1-390 Acq:12-MAY-2010 14:18:09 GC EI + Voltage SIR Autospec-Ultima
 305.8987 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



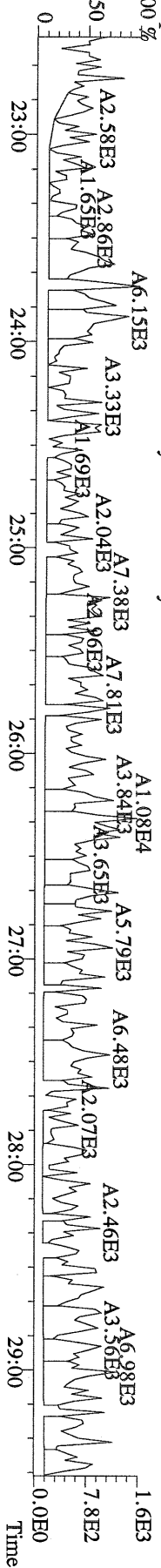
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 315.9419 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



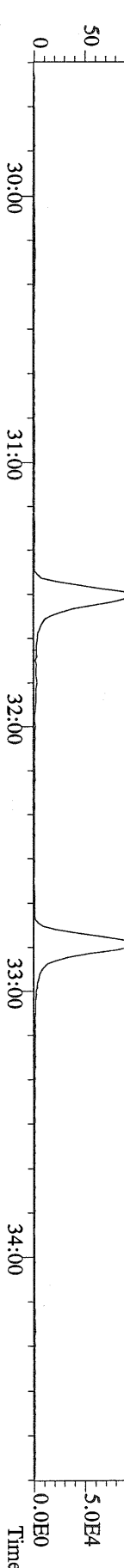
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 317.9389 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



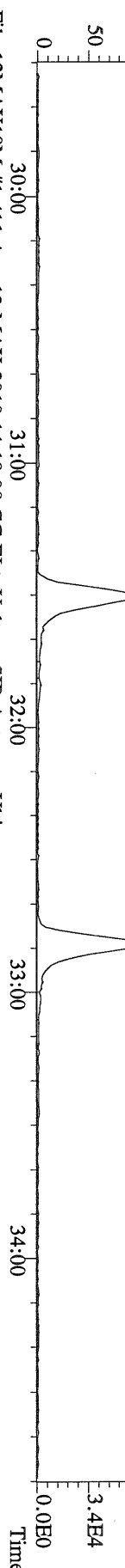
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 375.8364 S:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



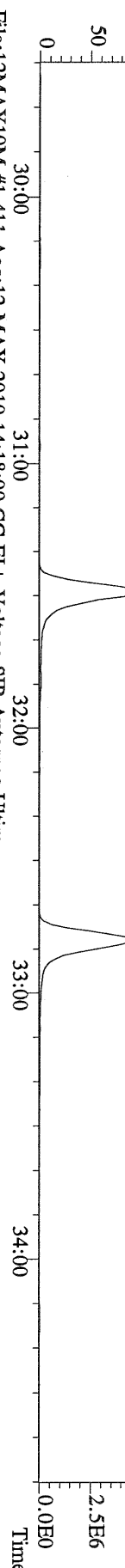
File:12MAY10M #1-411 Acq:12-MAY-2010 14:18:09 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



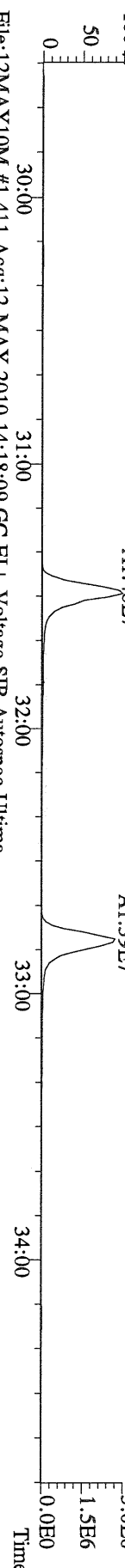
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341.8568 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



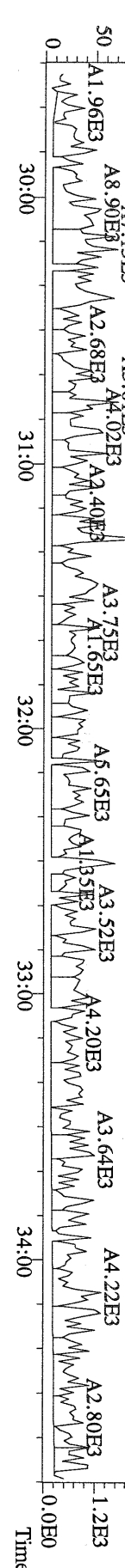
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351.9000 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



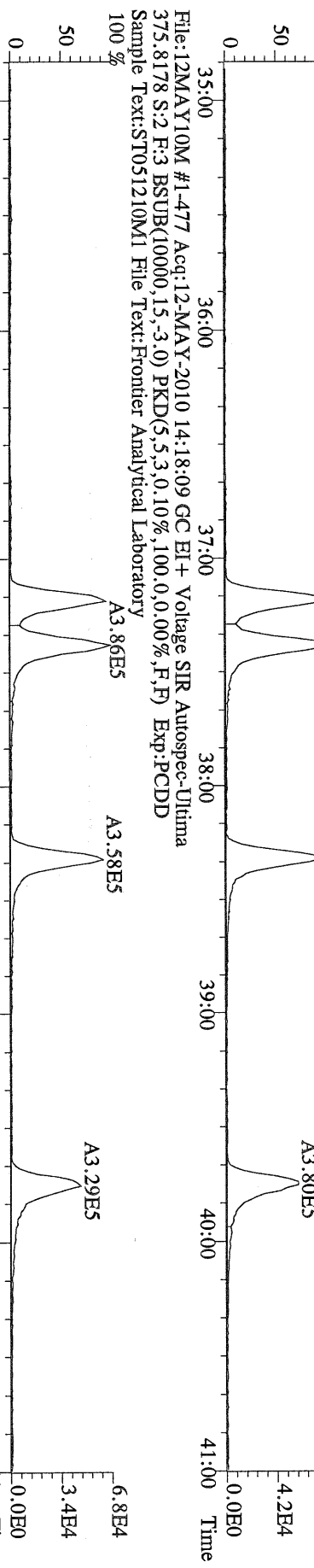
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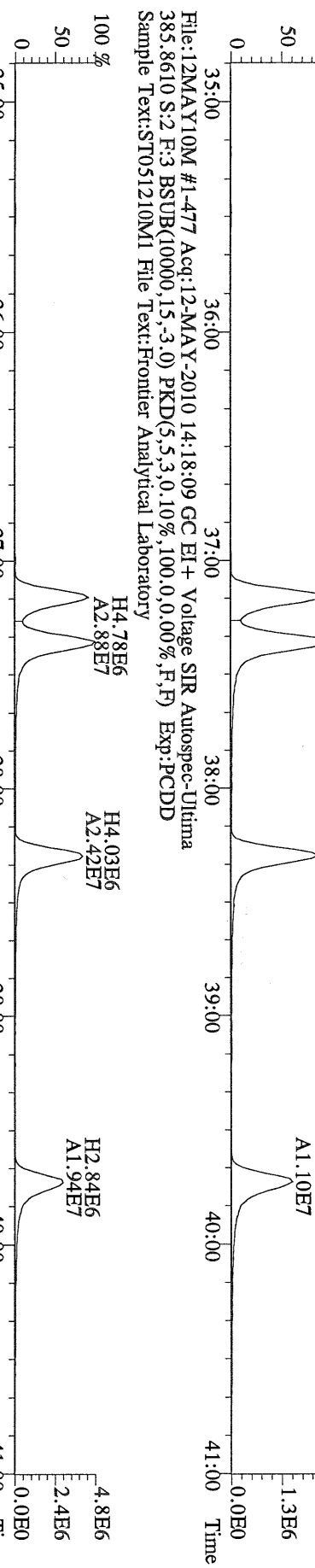
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409.7974 S:2 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



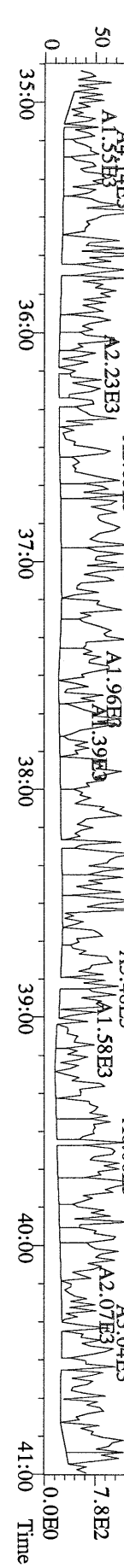
File:12MAY10M #1-477 Acq:12-MAY-2010 14:18:09 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



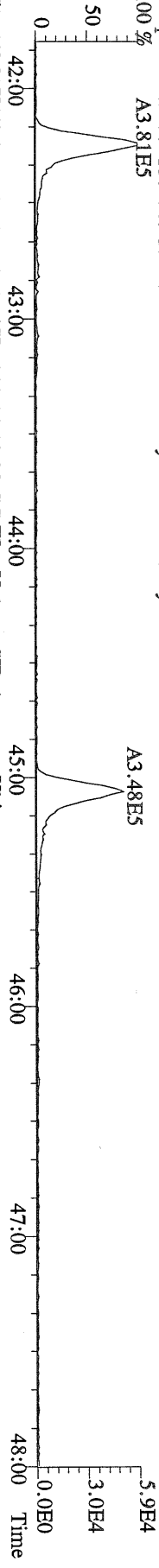
File:12MAY10M #1-477 Acq:12-MAY-2010 14:18:09 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



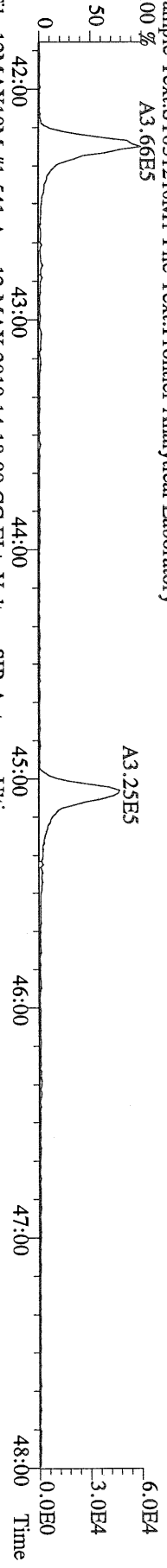
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 445.7555 S:2 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



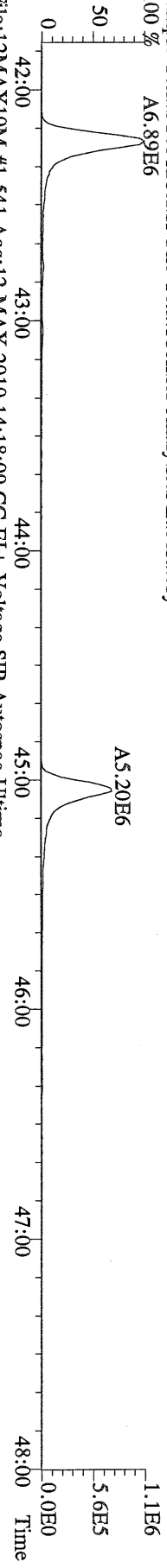
File:12MAY10M #1-541 Acq:12-MAY-2010 14:18:09 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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 100 % A3.81E5



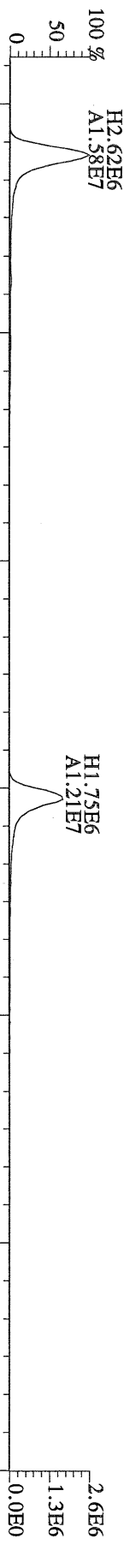
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 409.7788 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
 100 % A3.66E5



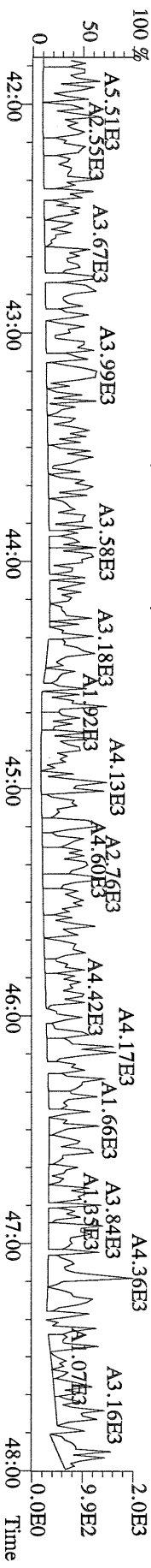
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 417.8253 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory
 100 % A6.89E6



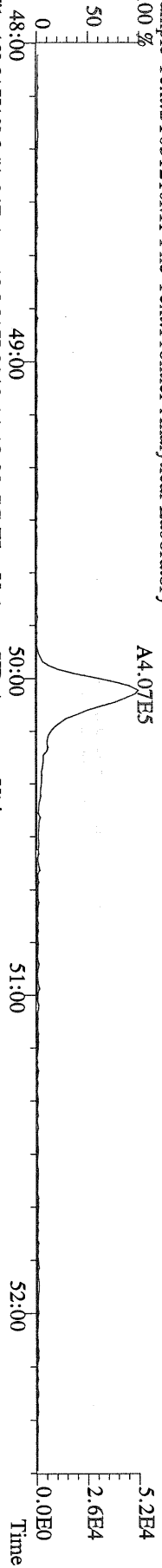
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 419.8220 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



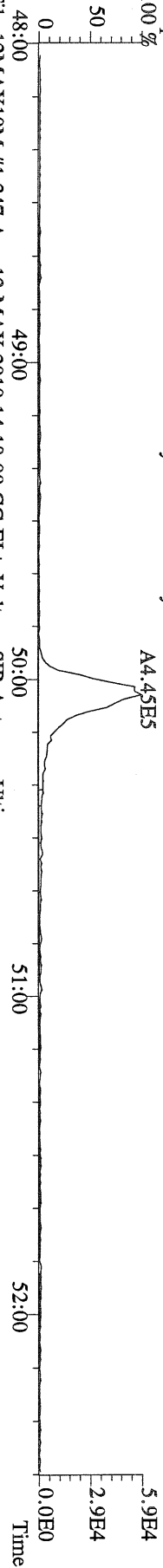
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 479.7165 S:2 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



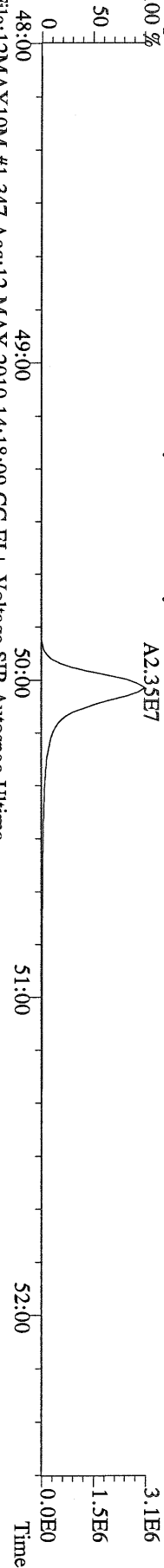
File:12MAY10M #1-347 Acq:12-MAY-2010 14:18:09 GC EI + Voltage SIR Autospec-Ultima
 441.7428 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



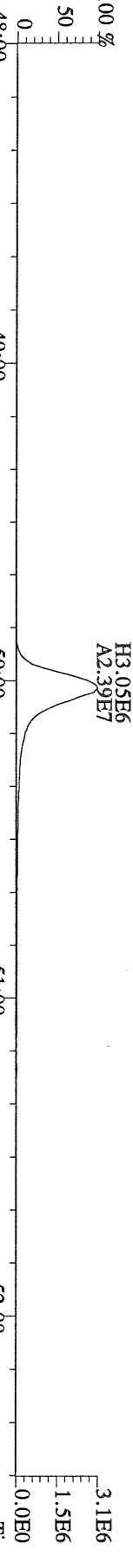
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 443.7398 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



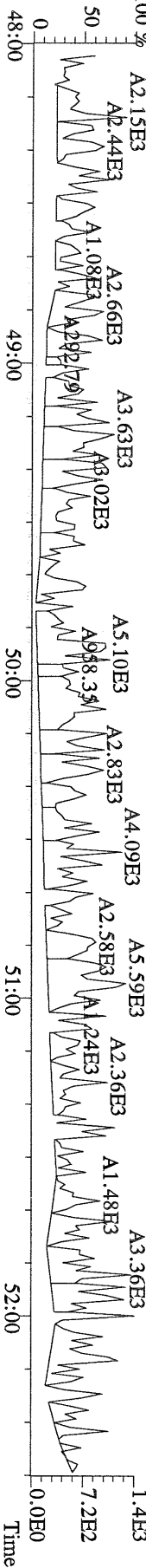
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 453.7831 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M1 File Text:Frontier Analytical Laboratory



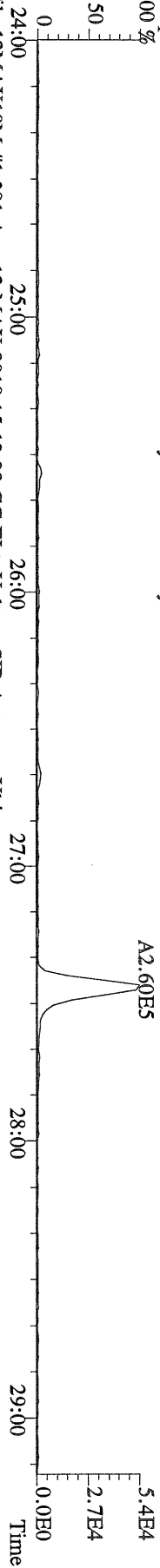
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 455.7801 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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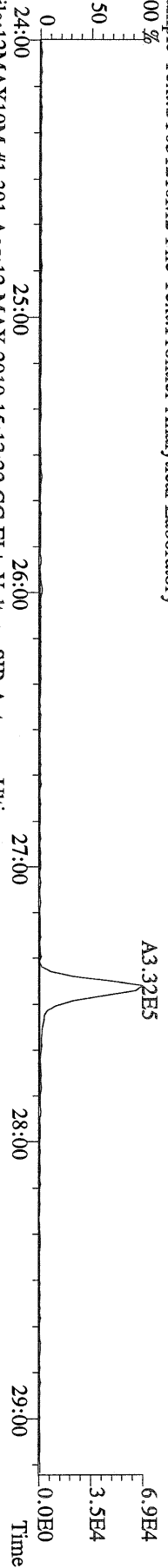
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 513.6775 S:2 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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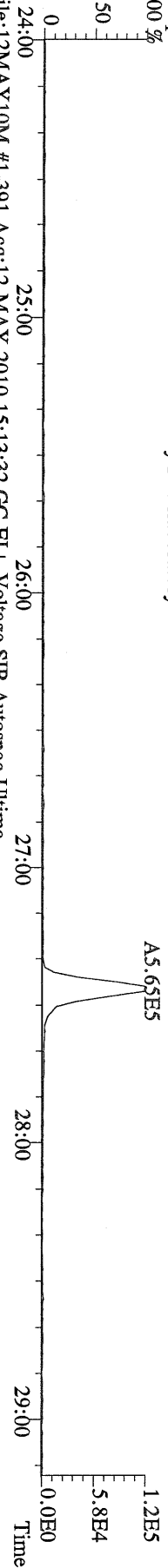
File:12MAY10M #1-391 Acq:12-MAY-2010 15:13:32 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
100 %



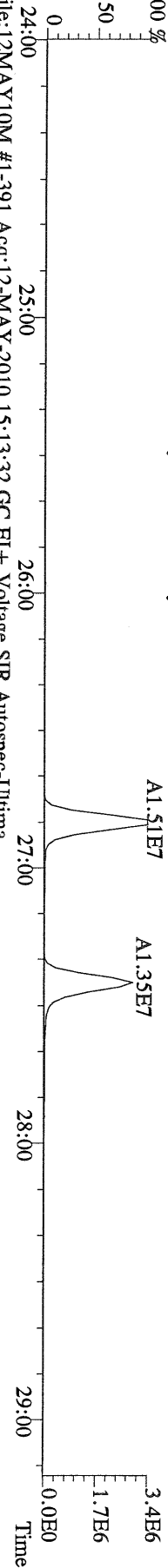
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321.8936 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
100 %



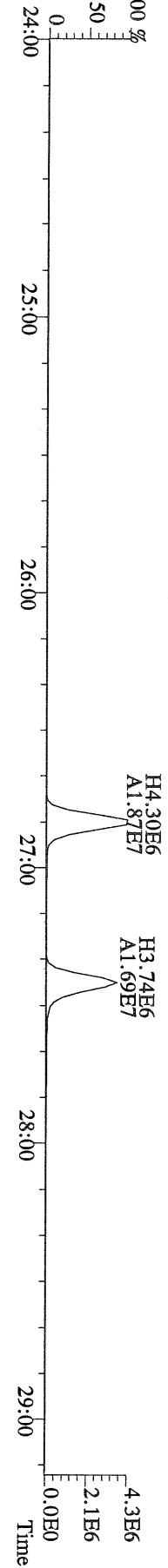
File:12MAY10M #1-391 Acq:12-MAY-2010 15:13:32 GC EI + Voltage SIR Autospec-Ultima
327.8847 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
100 %



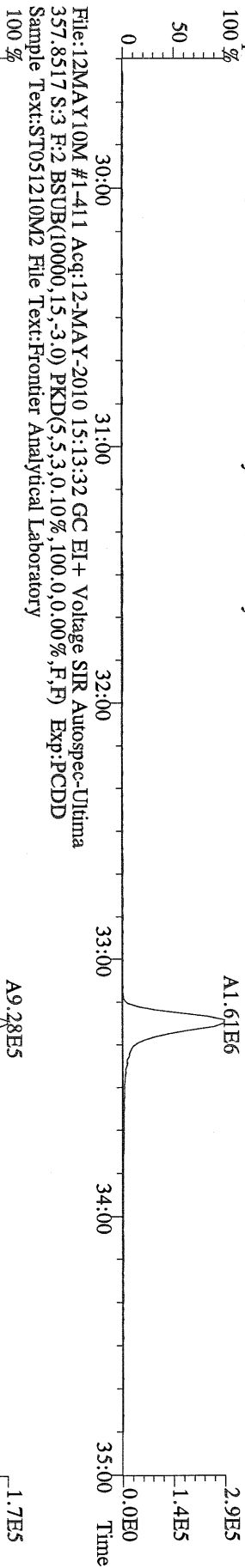
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331.9368 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
100 %



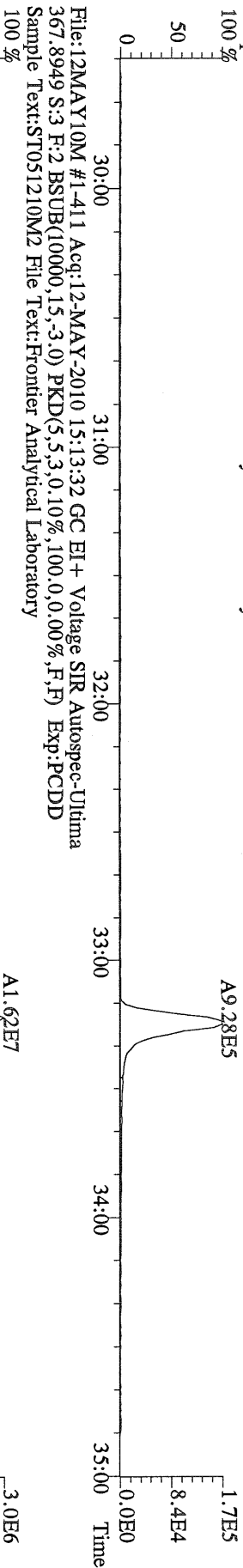
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333.9339 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



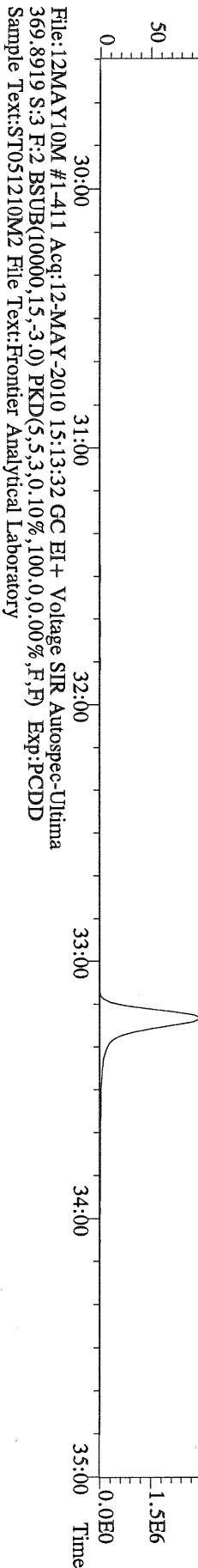
File:12MAY10M #1-411 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



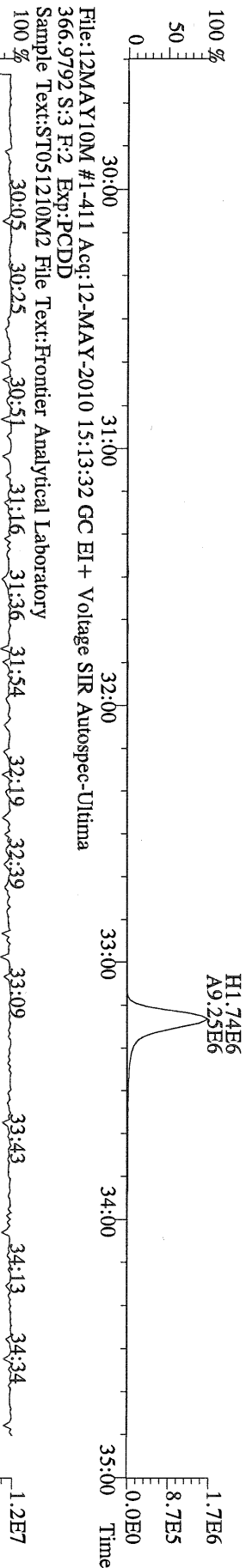
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357.8517 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



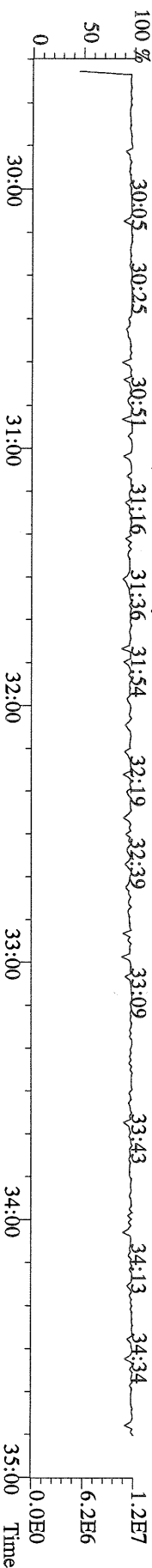
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367.8949 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



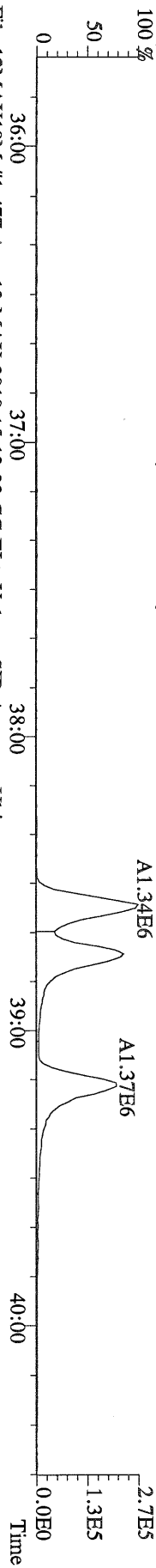
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369.8919 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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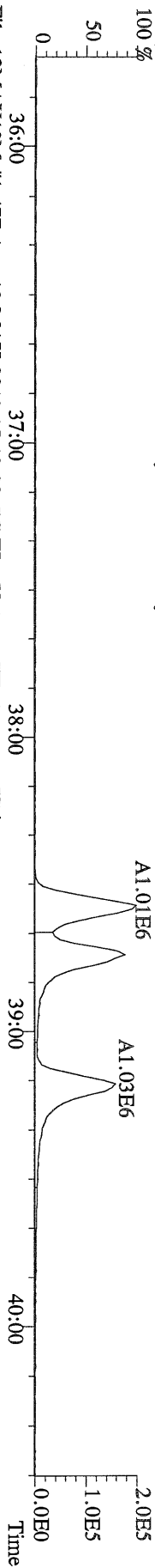
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366.9792 S:3 F:2 Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



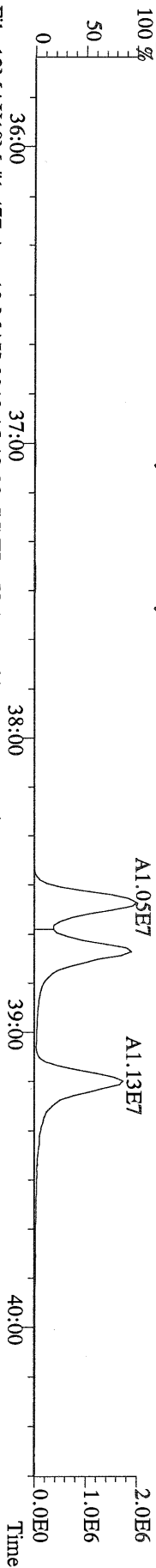
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Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



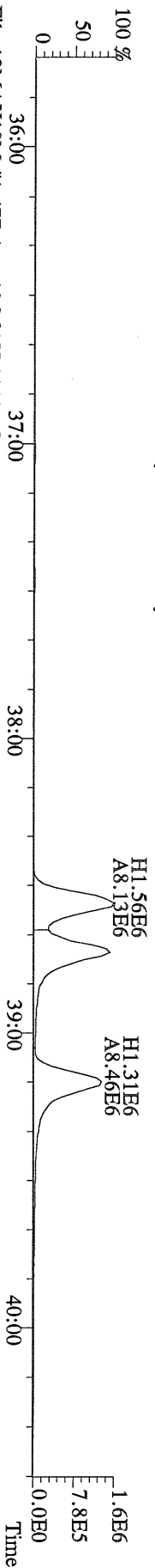
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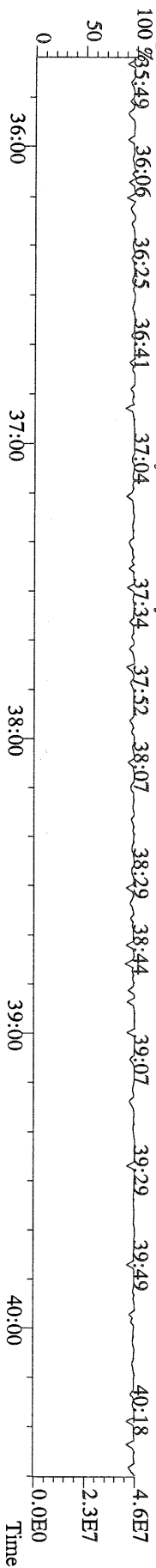
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Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



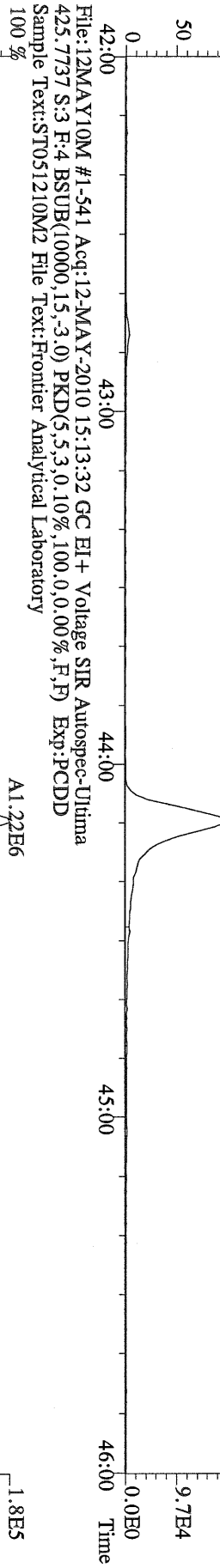
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Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



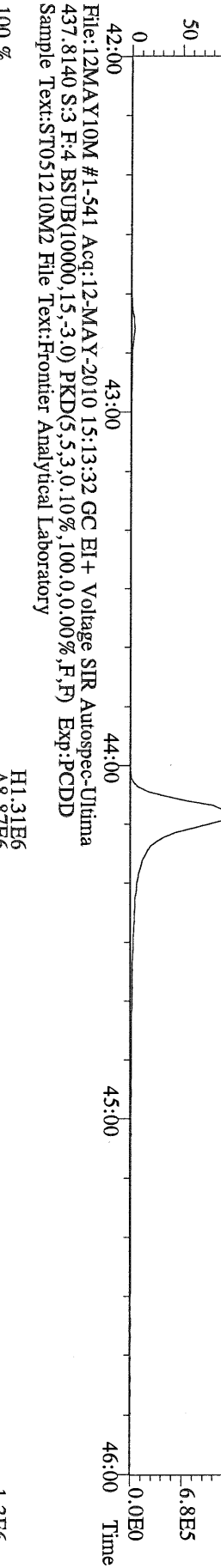
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Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



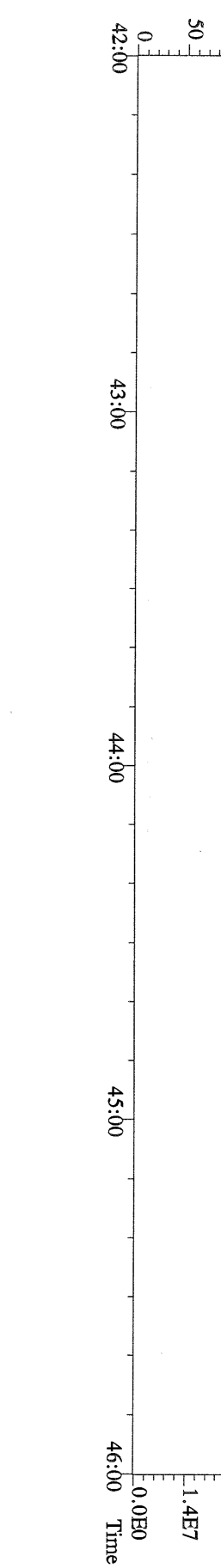
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423.7767 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



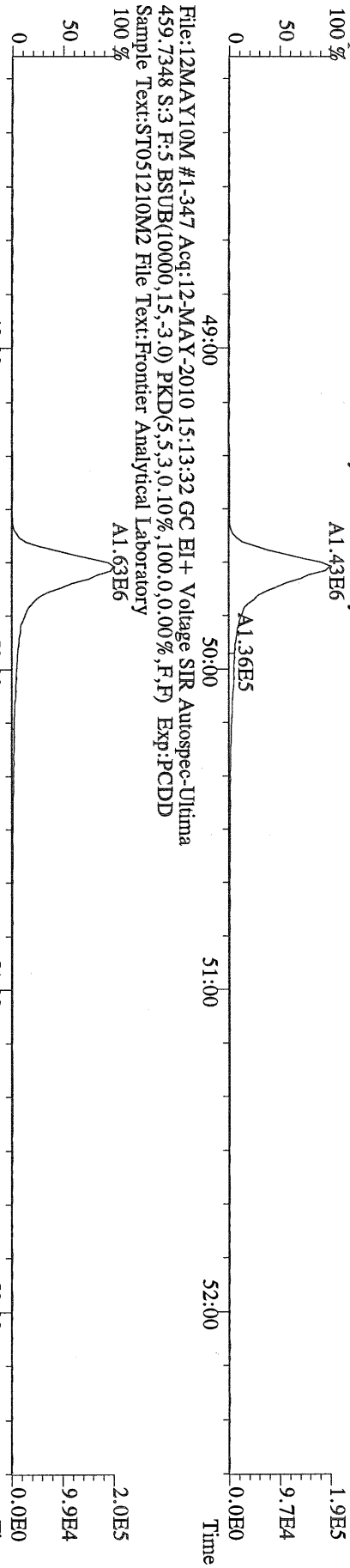
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435.8169 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



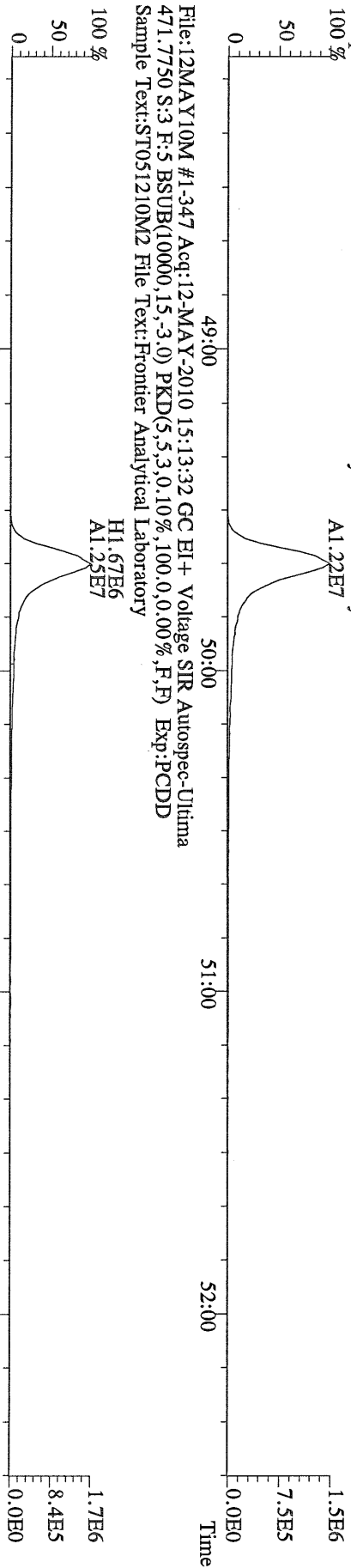
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Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



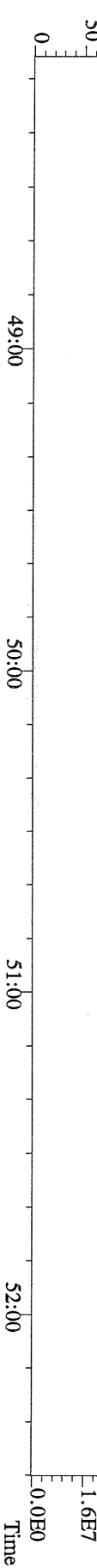
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457.7377 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



File:12MAY10M #1-347 Acq:12-MAY-2010 15:13:32 GC EI+ Voltage SIR Autospec-Ultima
469.7780 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



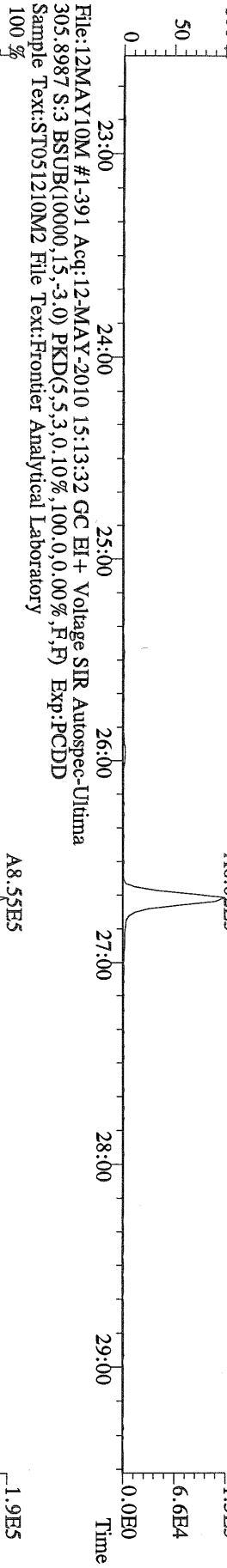
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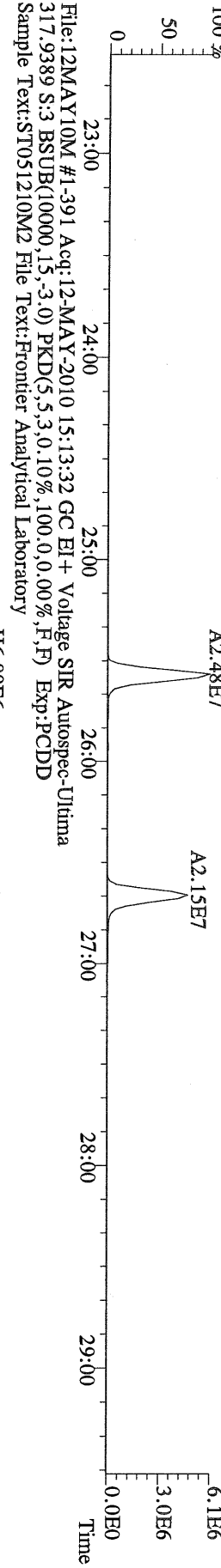
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Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



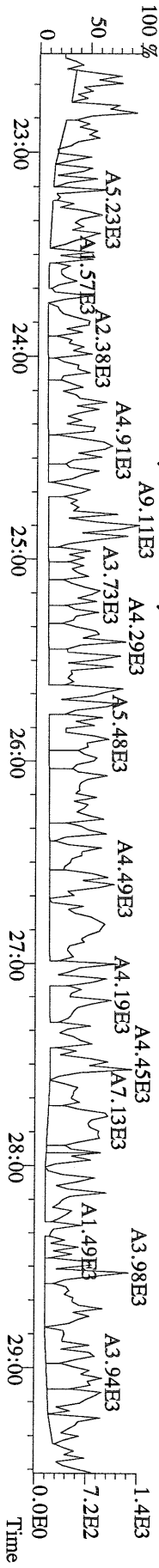
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303.9016 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



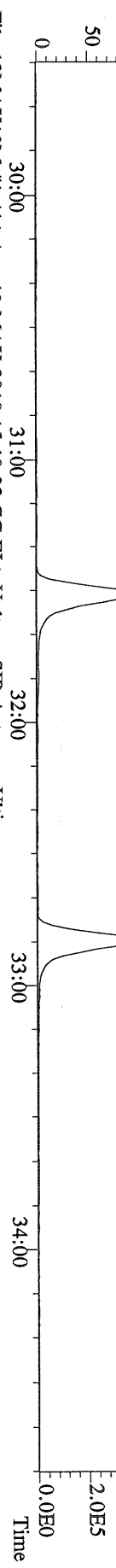
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315.9419 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



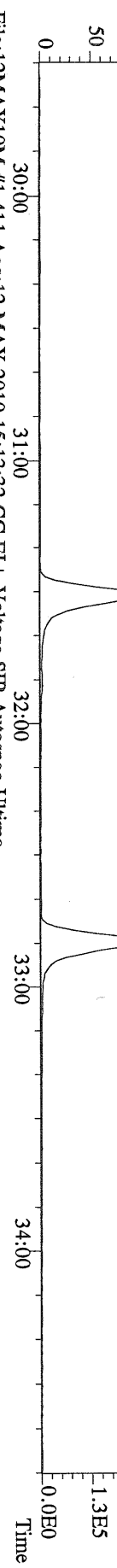
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317.9389 S:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



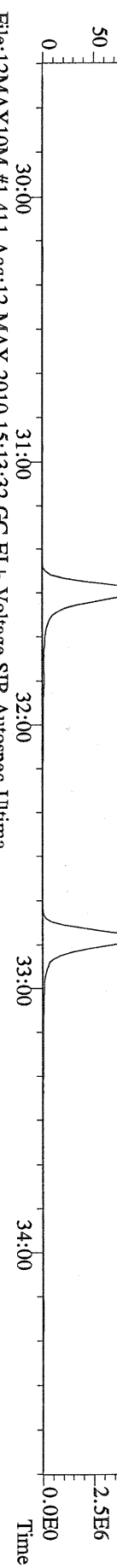
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 339.8597 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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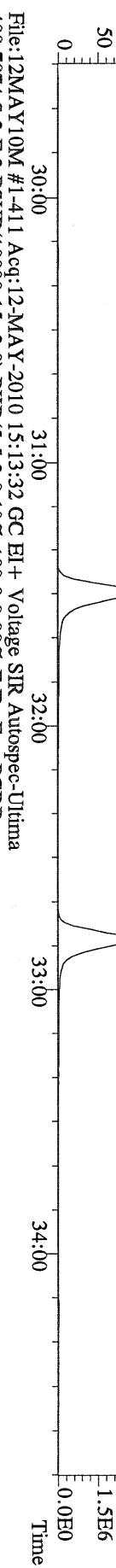
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 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



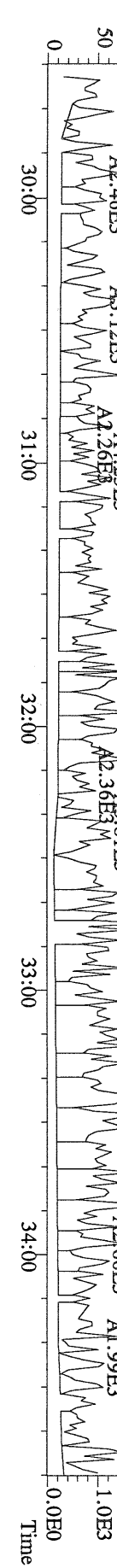
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 351.9000 S:3 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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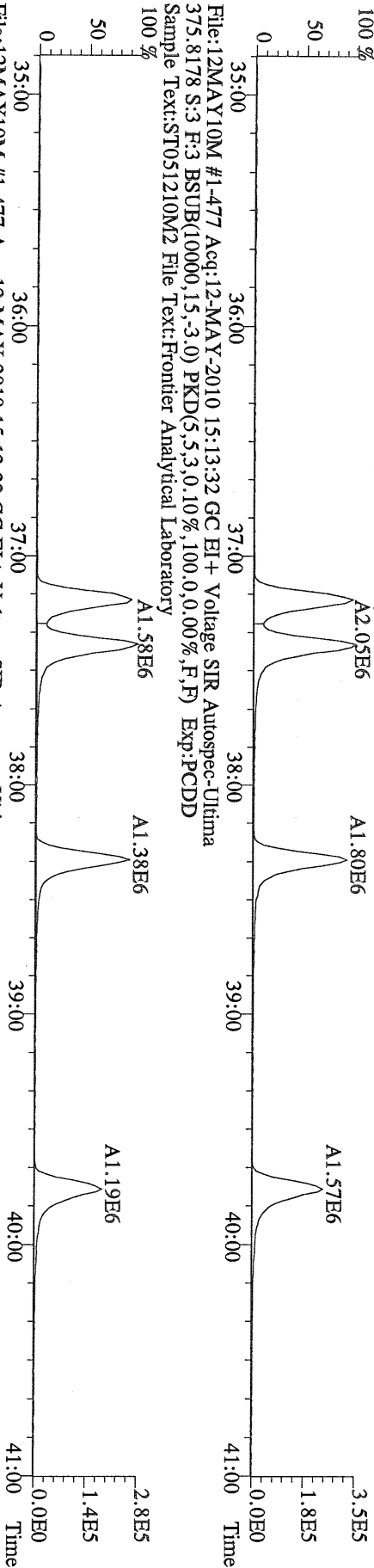
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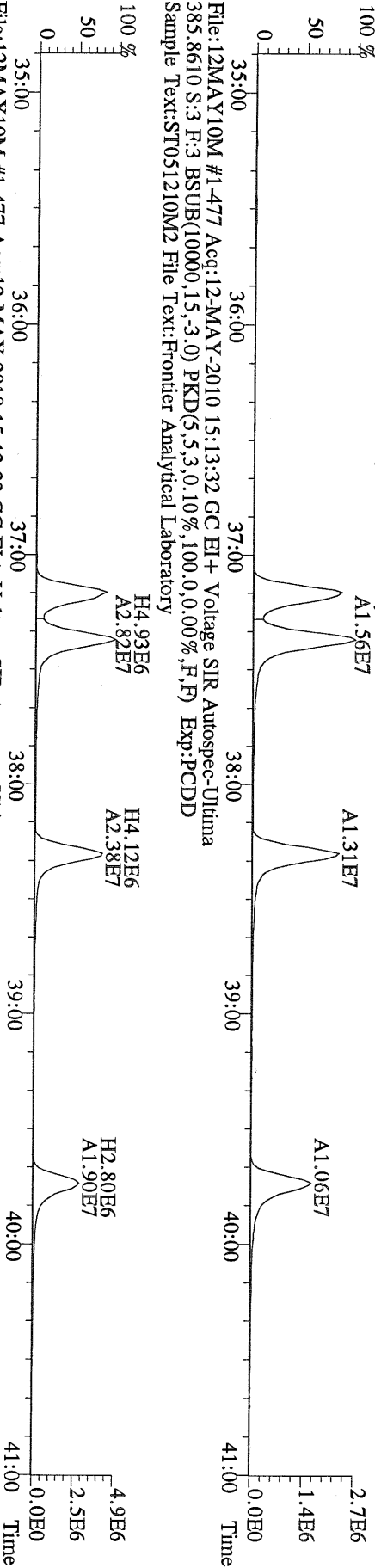
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 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



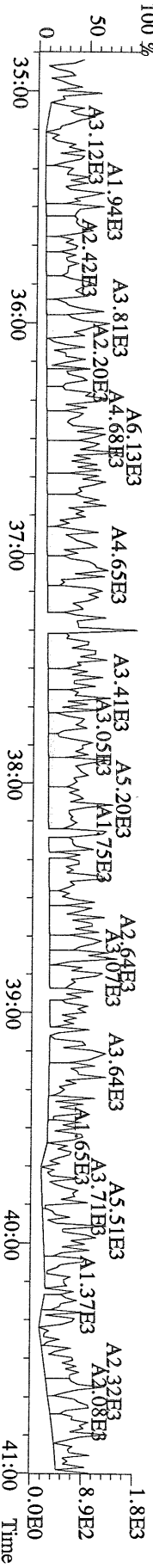
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 373.8207 S:3 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



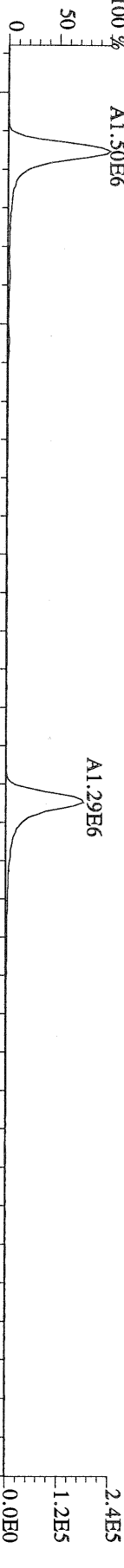
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 383.8639 S:3 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
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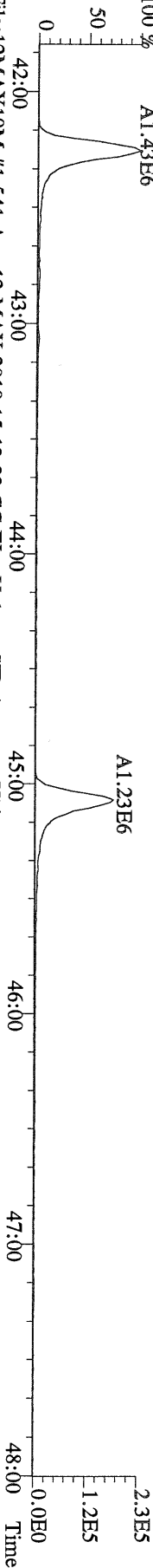
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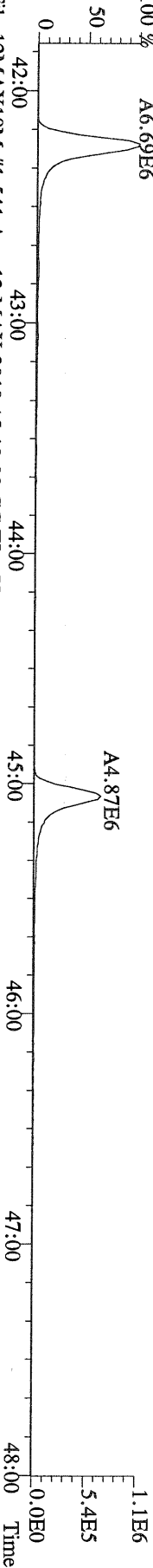
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407.7818 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



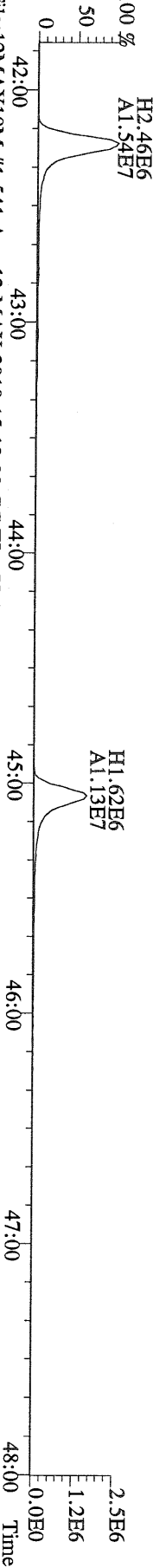
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Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



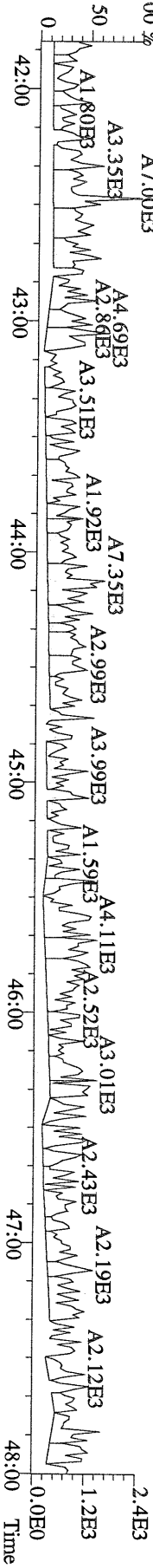
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Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



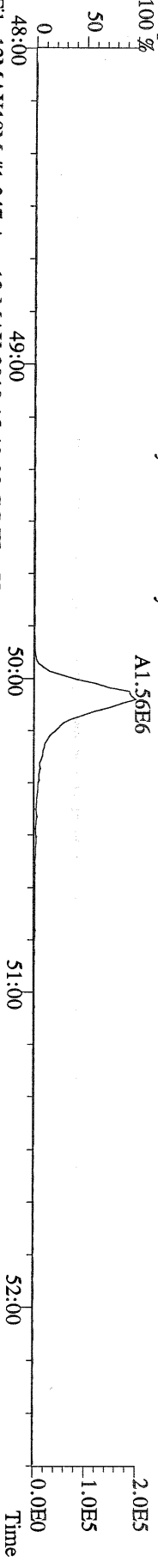
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Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



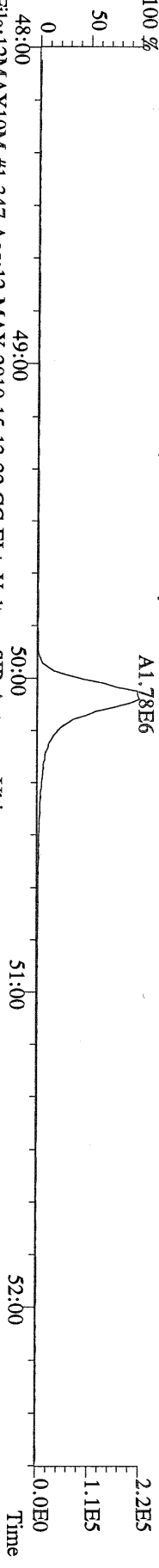
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479.7165 S:3 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory



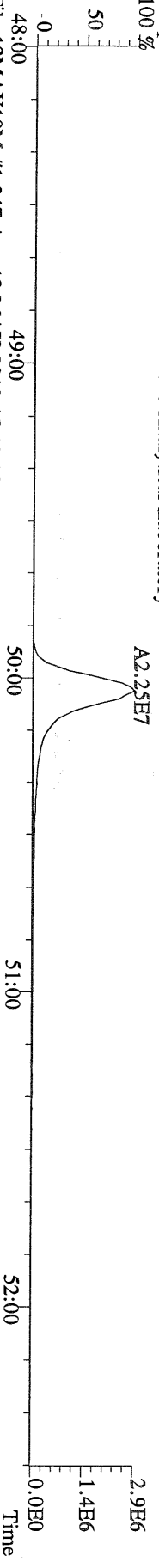
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 100 %



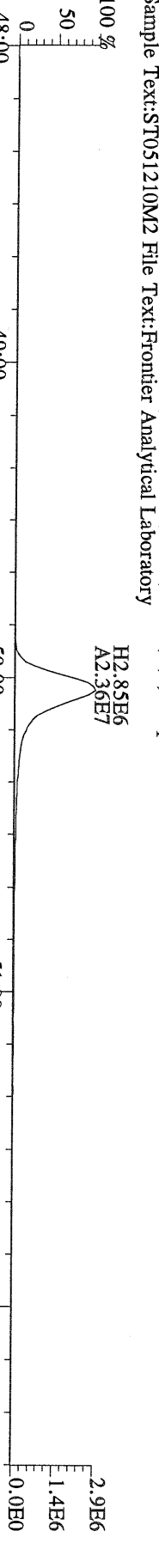
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 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
 100 %



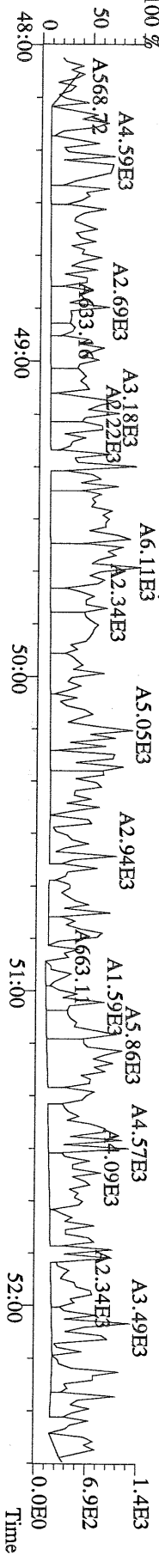
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 453.7831 S:3 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
 100 %



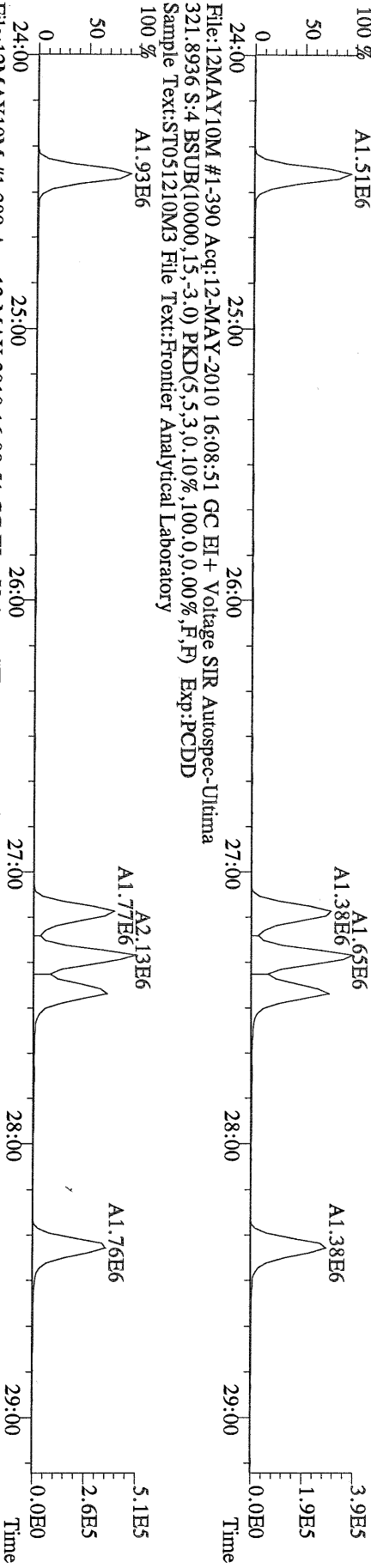
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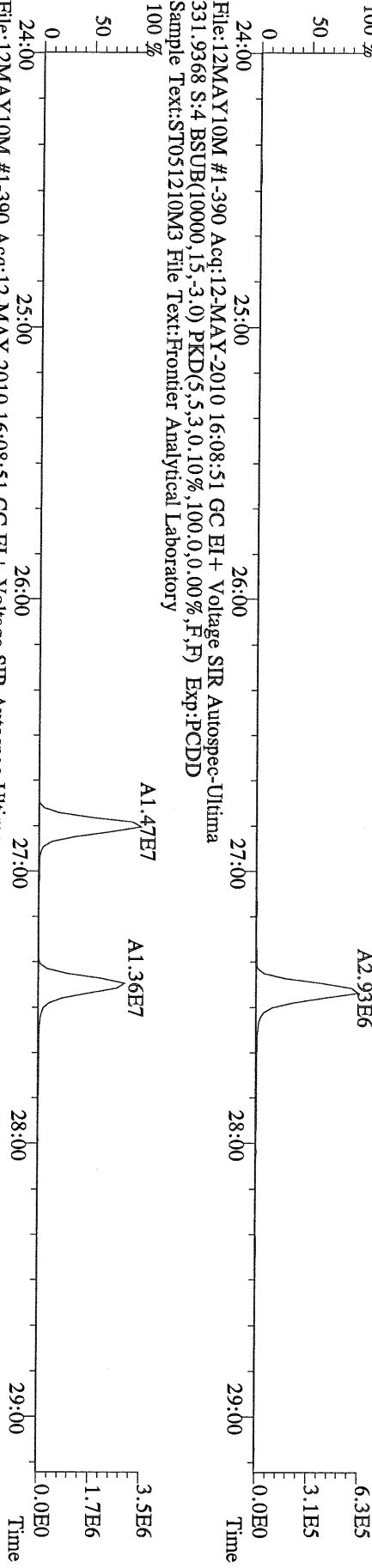
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 Sample Text:ST051210M2 File Text:Frontier Analytical Laboratory
 100 %



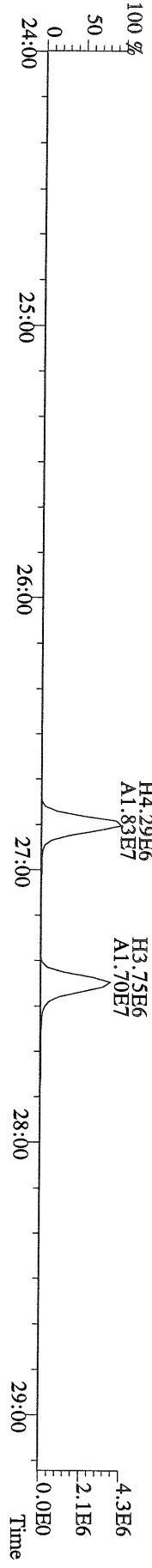
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319.8965 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



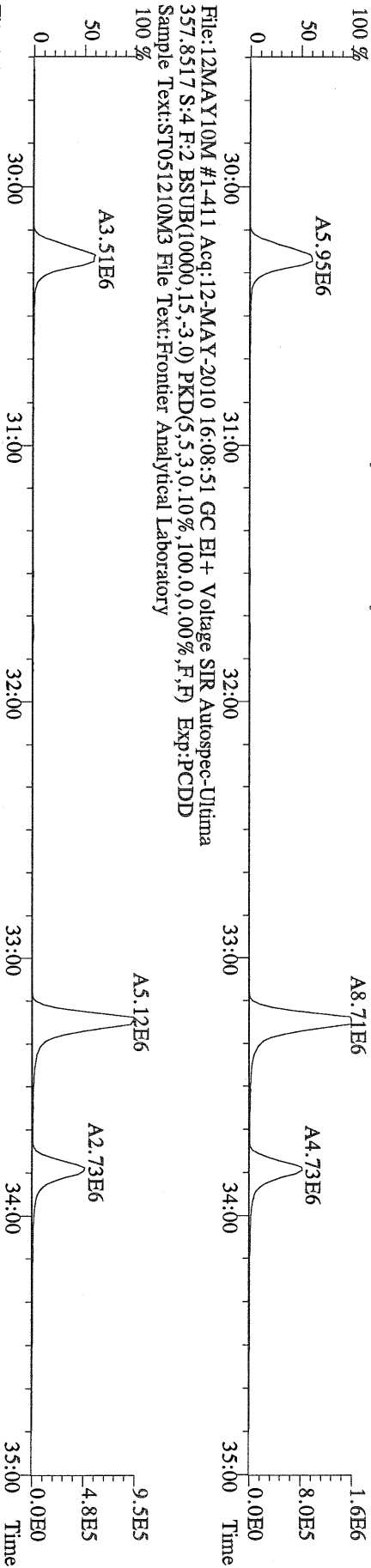
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327.8847 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



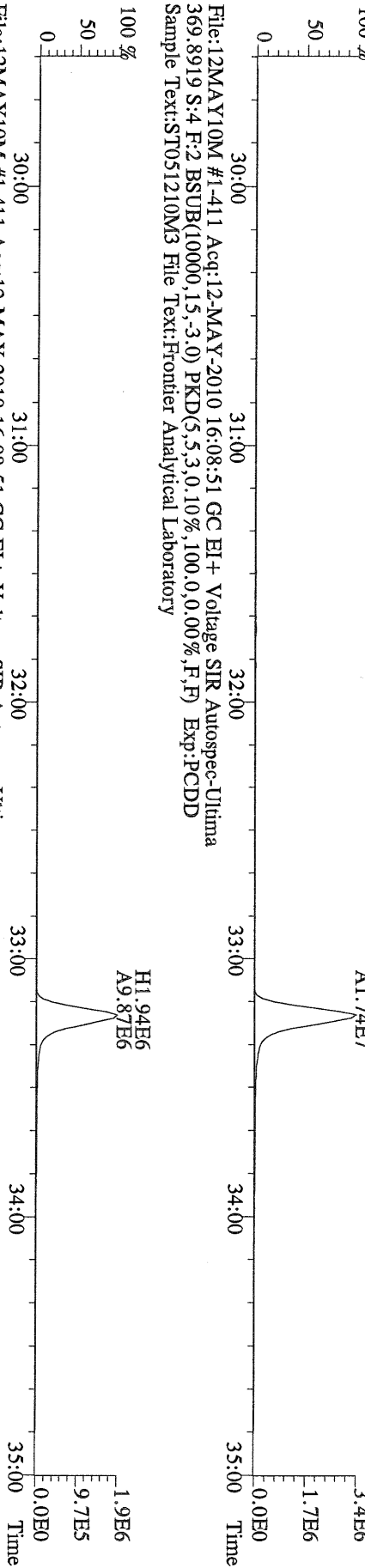
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333.9339 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



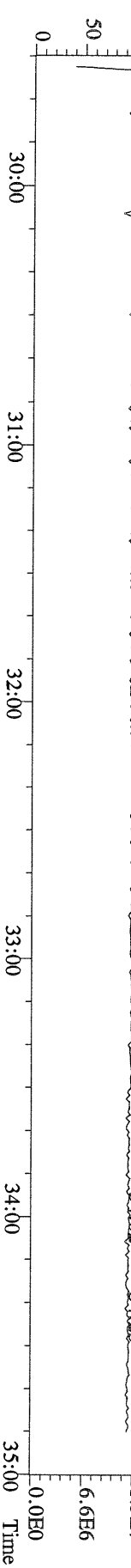
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355.8546 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



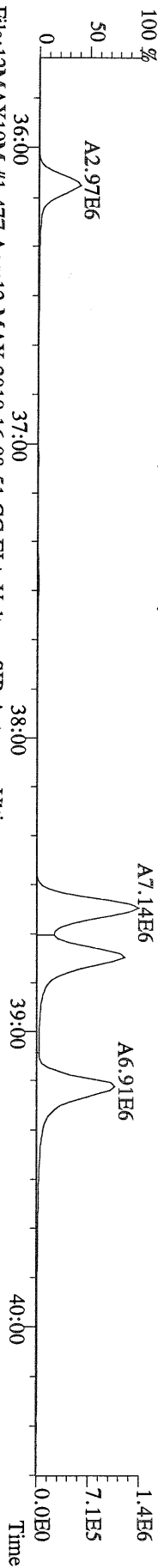
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367.8949 S:4 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



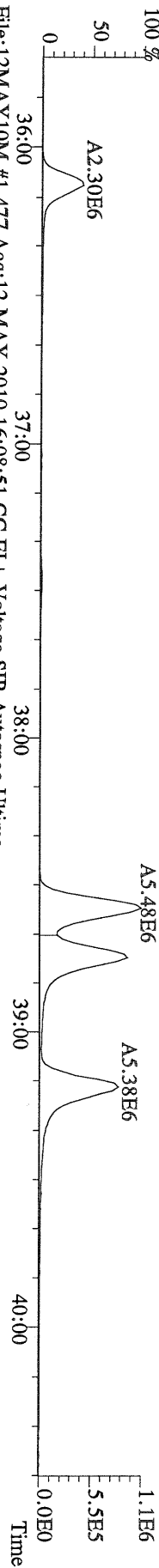
File:12MAY10M #1-411 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
366.9792 S:4 F:2 Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



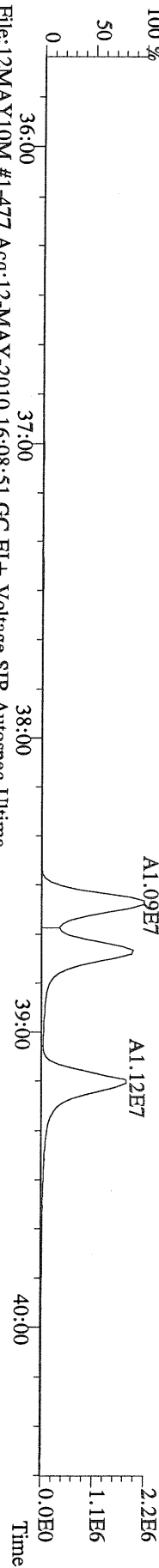
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389.8156 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



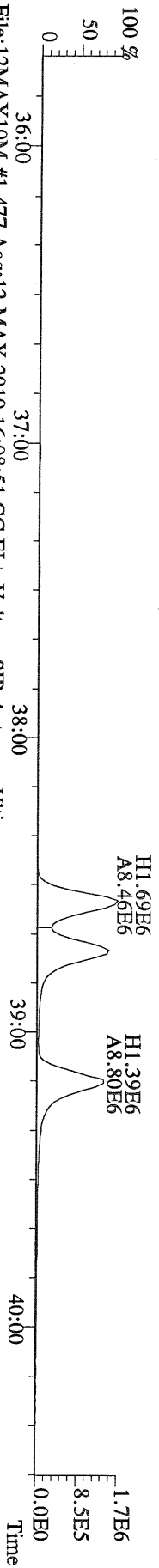
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391.8127 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



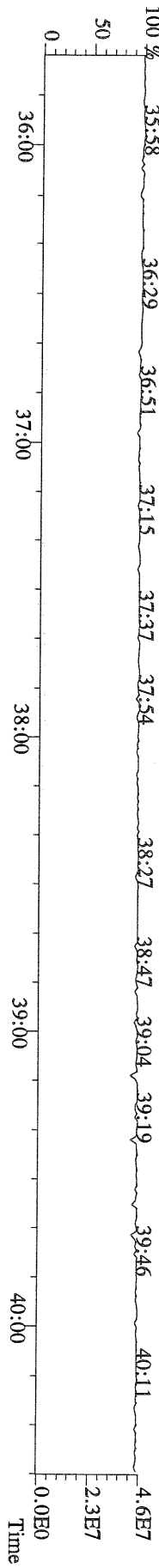
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401.8559 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



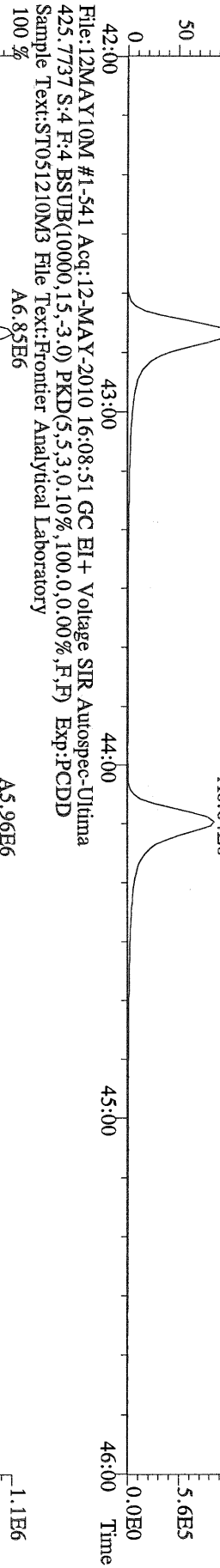
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403.8530 S:4 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



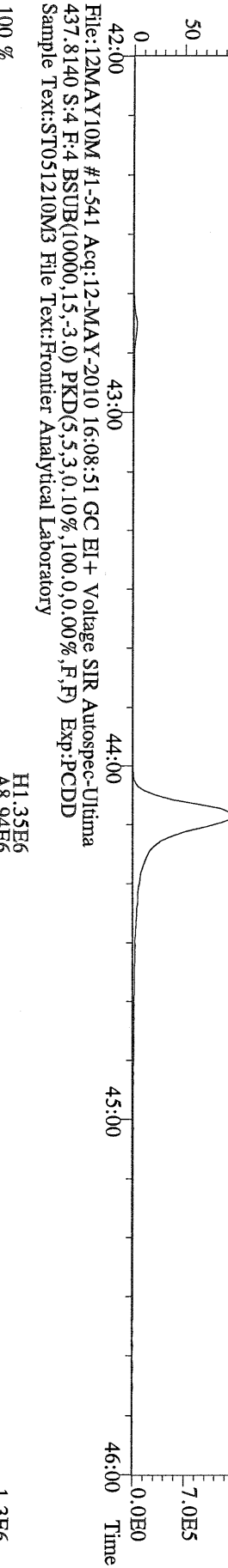
File:12MAY10M #1-477 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
380.9760 S:4 F:3 Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



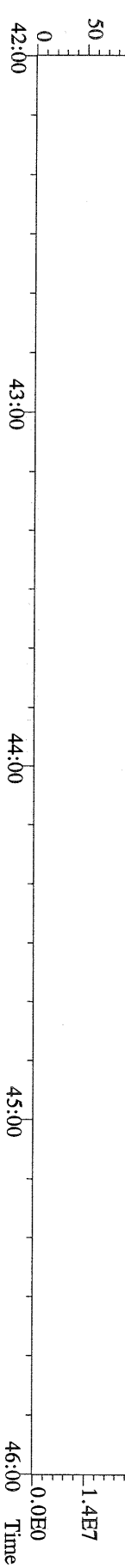
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423.7767 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory
100 %



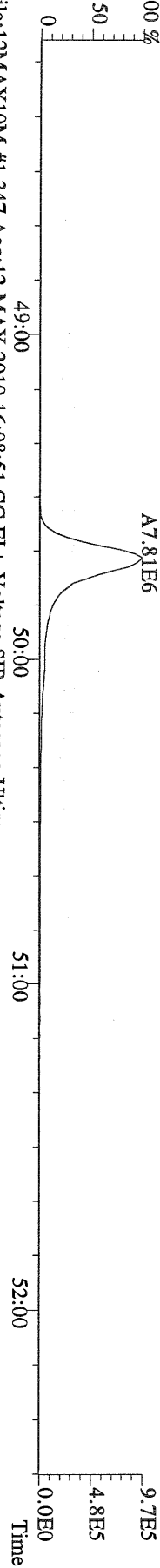
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435.8169 S:4 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory
100 %



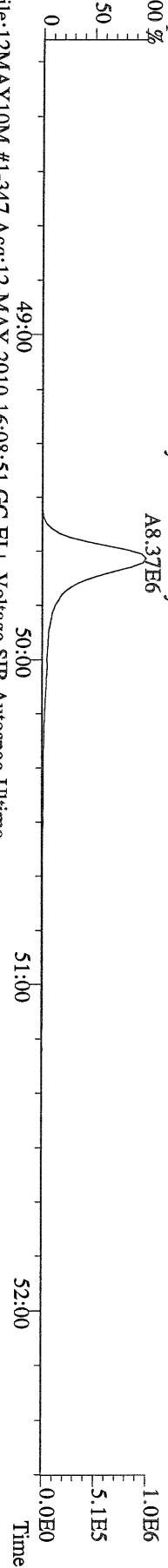
File:12MAY10M #1-541 Acq:12-MAY-2010 16:08:51 GC EI + Voltage SIR Autospec-Utima
430.9728 S:4 F:4 Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory
100 %



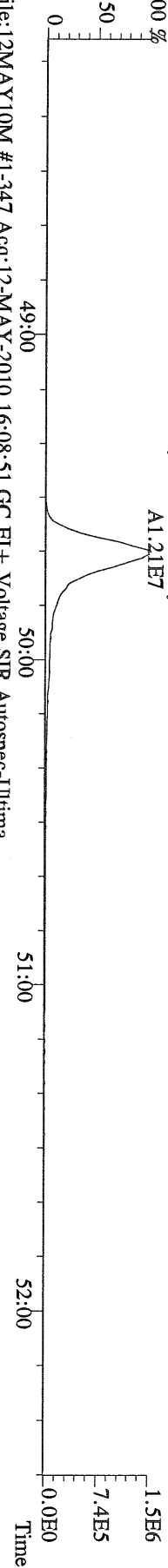
File:12MAY10M #1-347 Acq:12-MAY-2010 16:08:51 GC EI + Voltage SIR Autospec-Ultima
457.7377 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



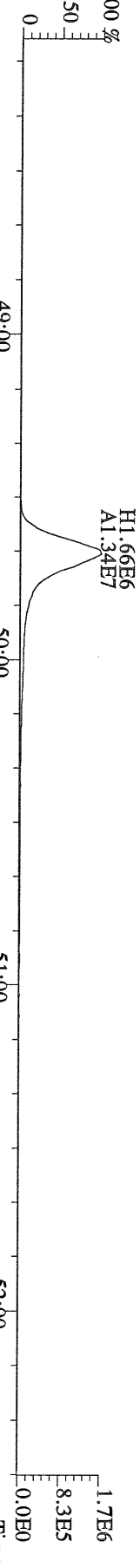
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459.7348 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



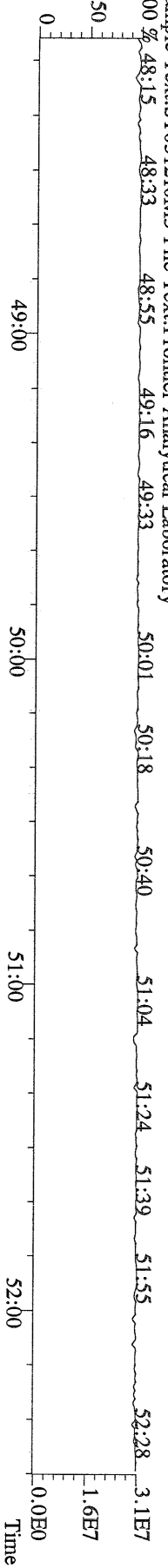
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469.7780 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



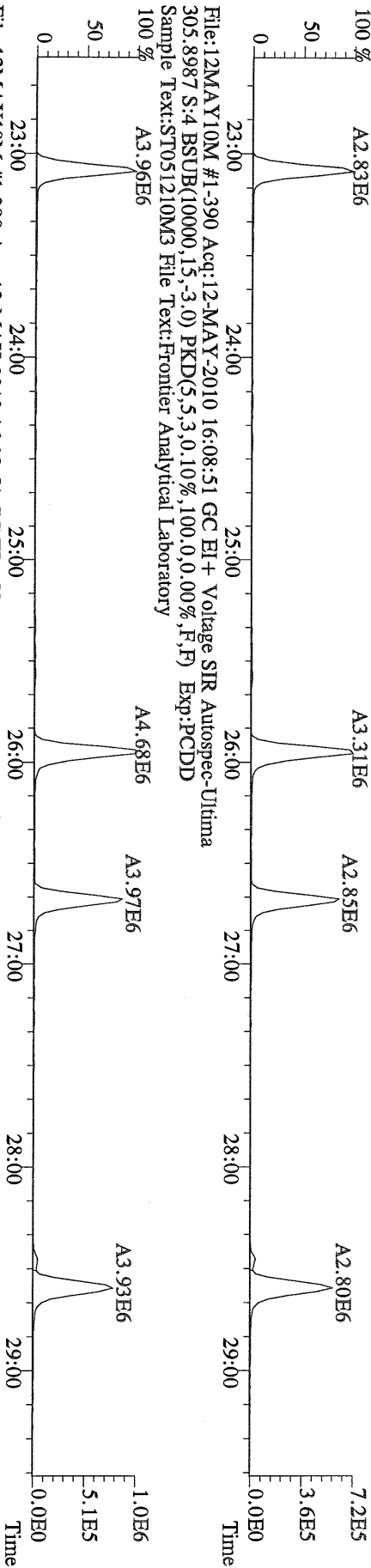
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471.7750 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



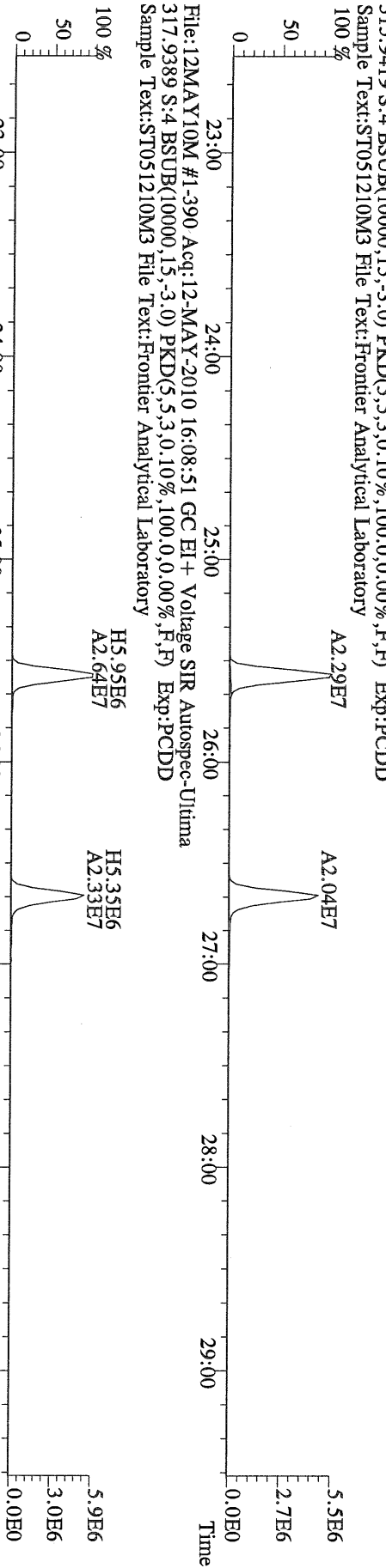
File:12MAY10M #1-347 Acq:12-MAY-2010 16:08:51 GC EI + Voltage SIR Autospec-Ultima
454.9728 S:4 F:5 Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



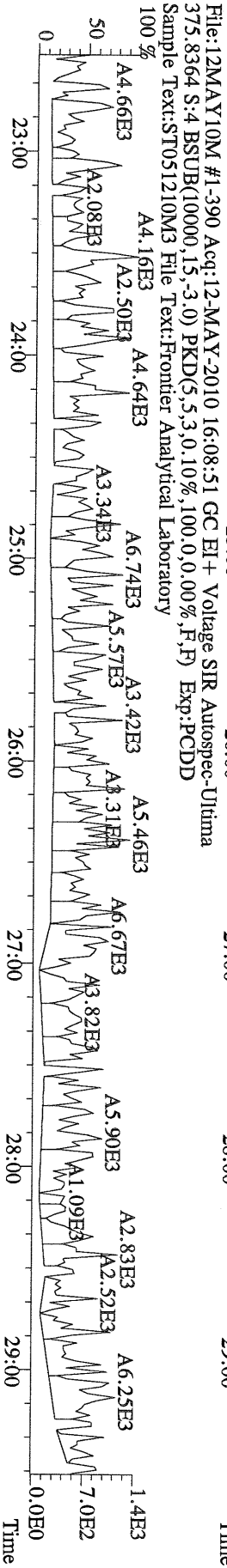
File:12MAY10M #1-390 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 303.9016 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



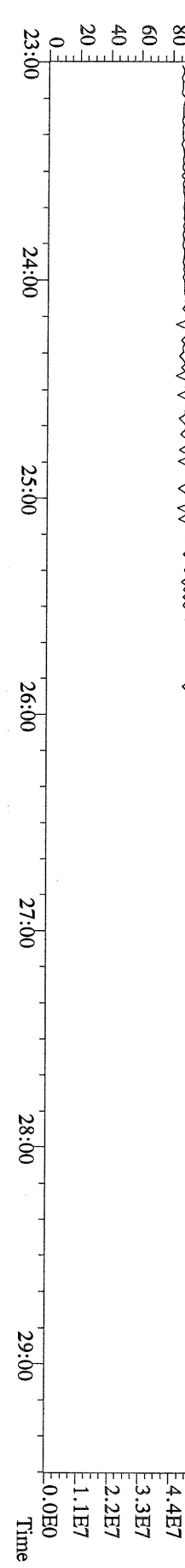
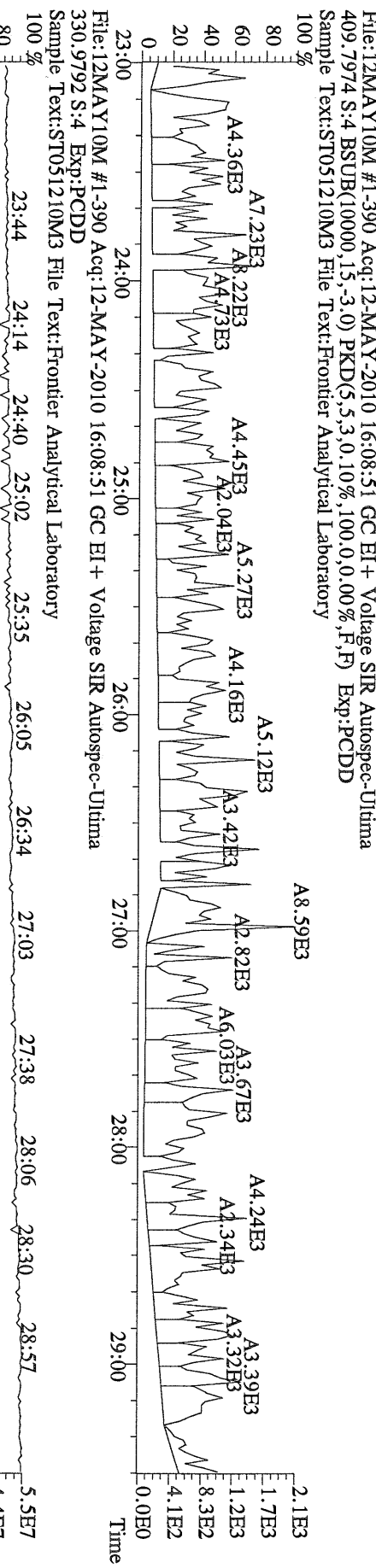
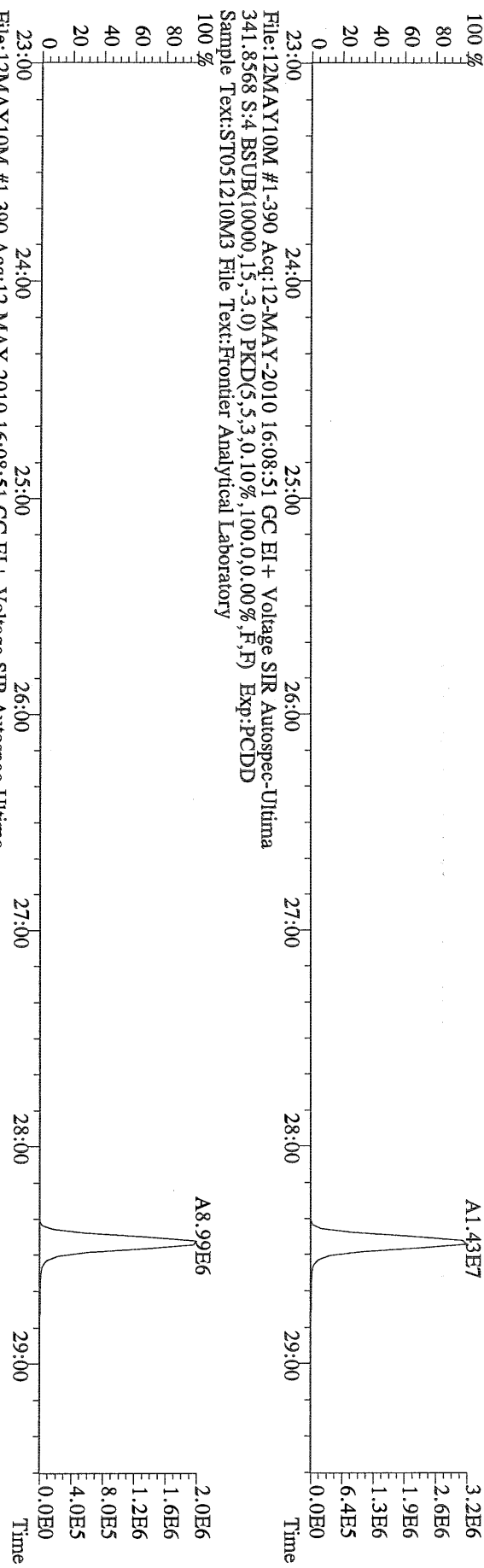
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 315.9419 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



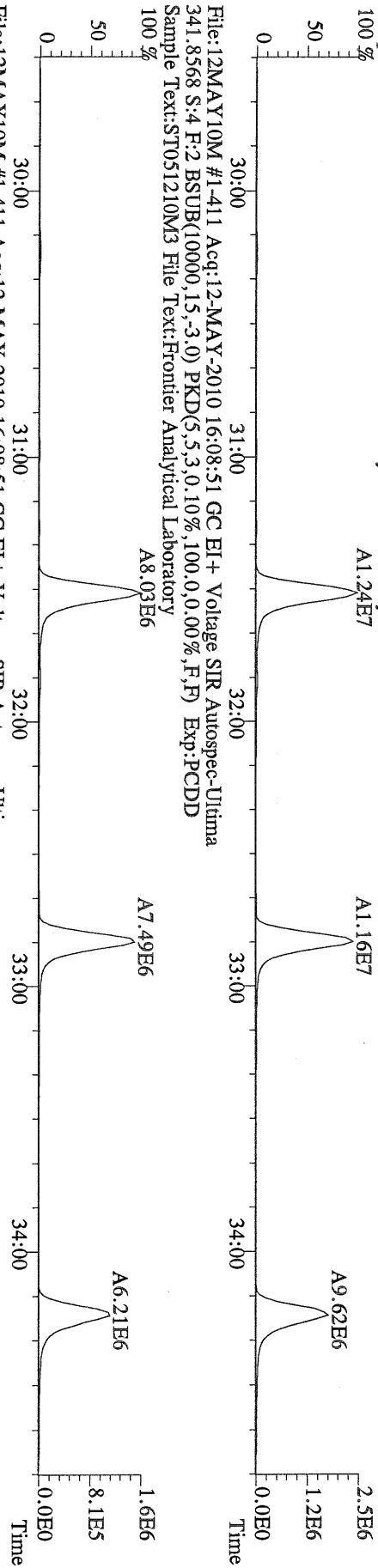
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 317.9389 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



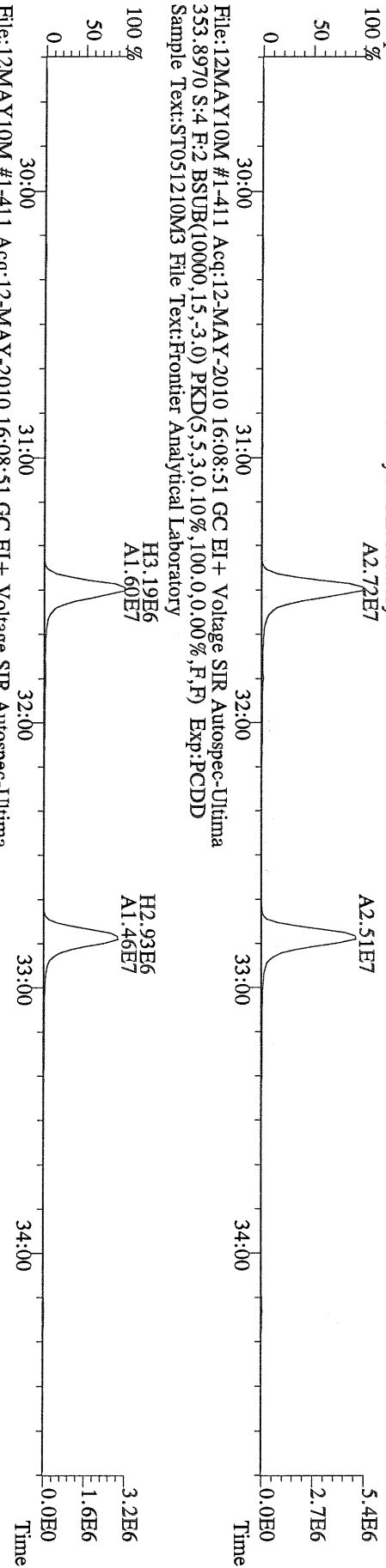
File:12MAY10M #1-390 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



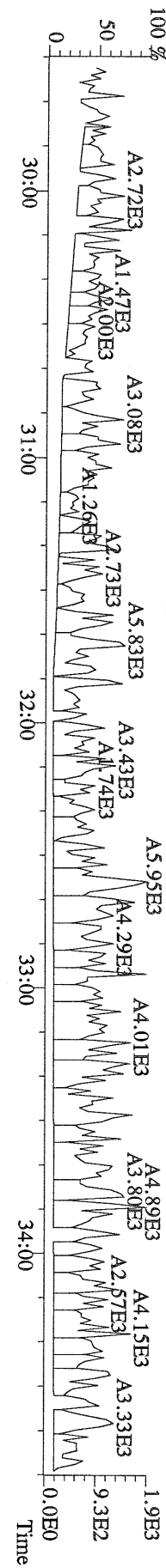
File:12MAY10M #1-411 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
339.8597 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



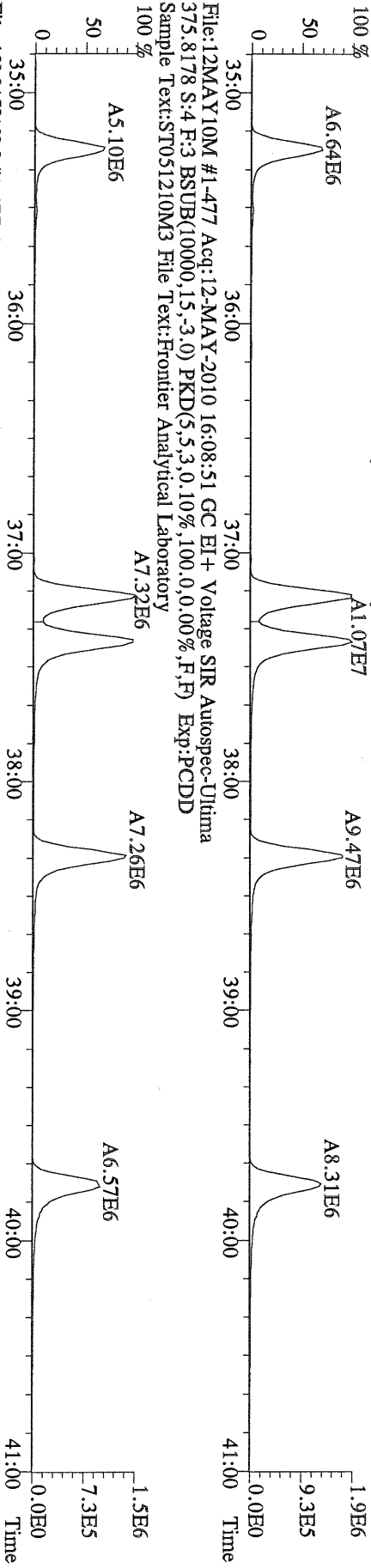
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351.9000 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



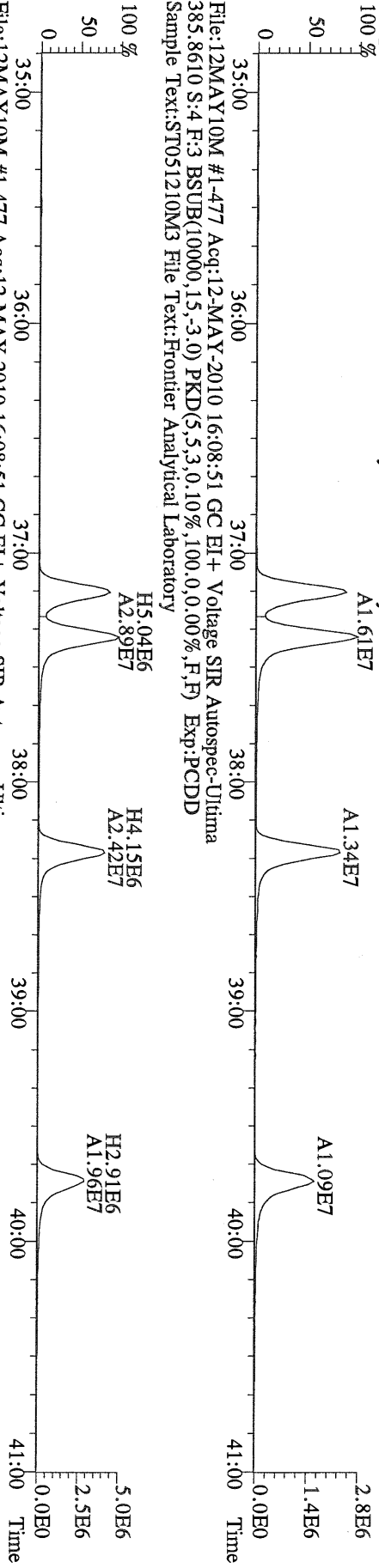
File:12MAY10M #1-411 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Ultima
409.7974 S:4 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



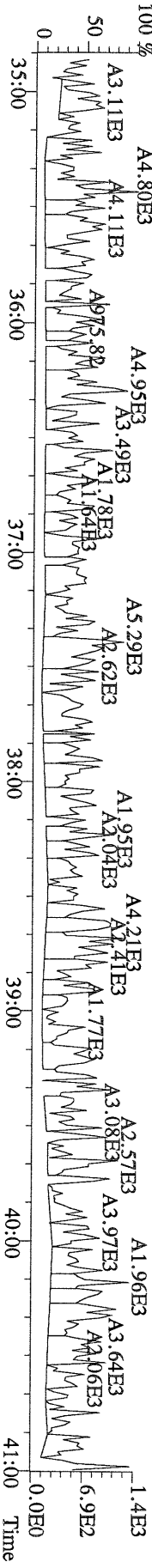
File:12MAY10M #1-477 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



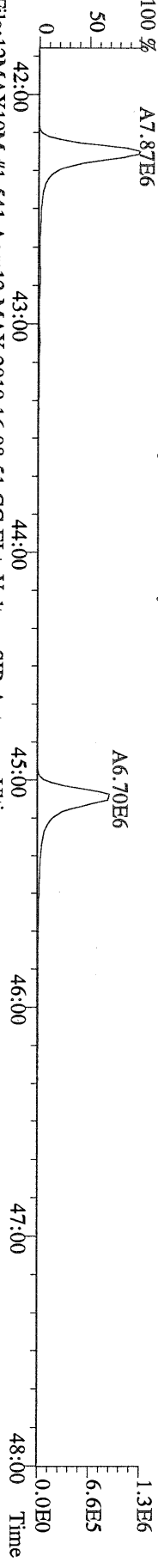
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383.8639 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



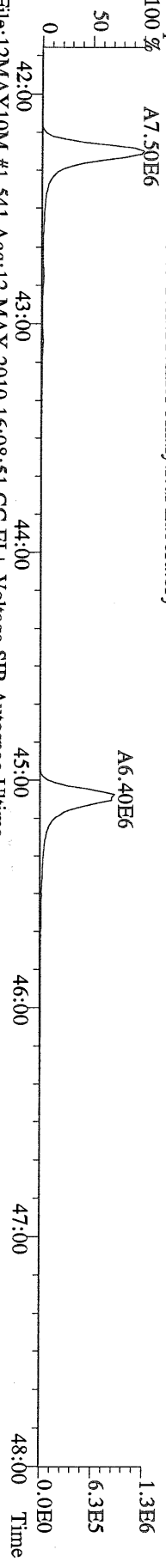
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445.7555 S:4 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



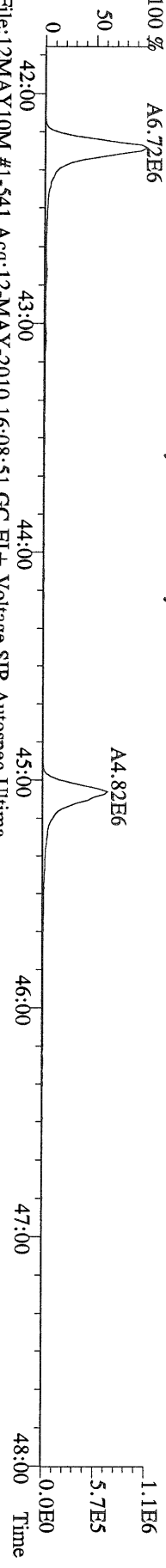
File:12MAY10M #1-541 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 407.7818 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



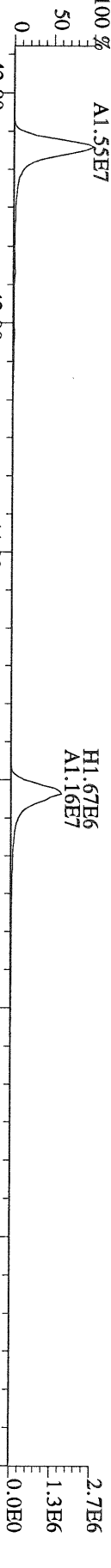
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 409.7788 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



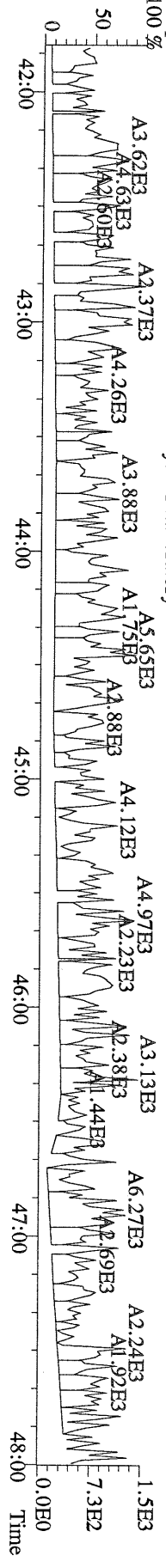
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 417.8253 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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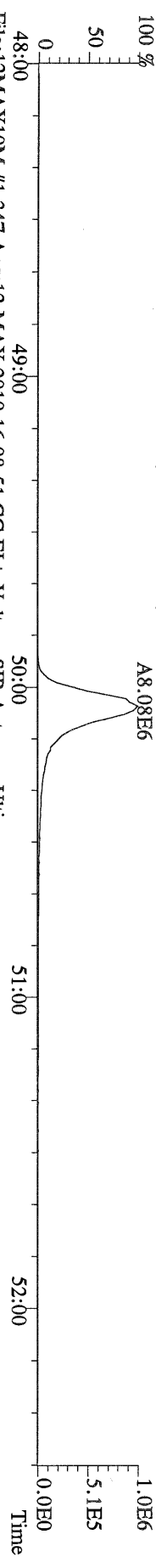
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 419.8220 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



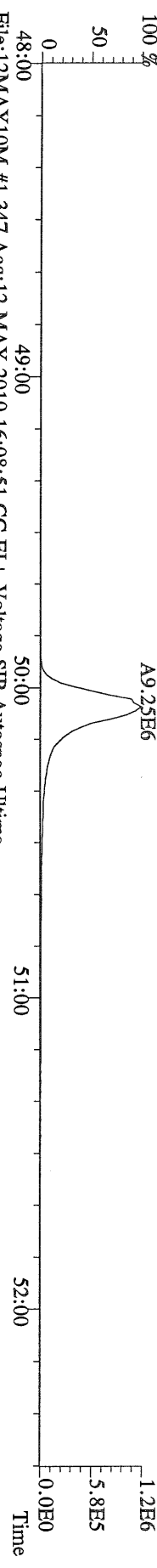
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 479.7165 S:4 F:4 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



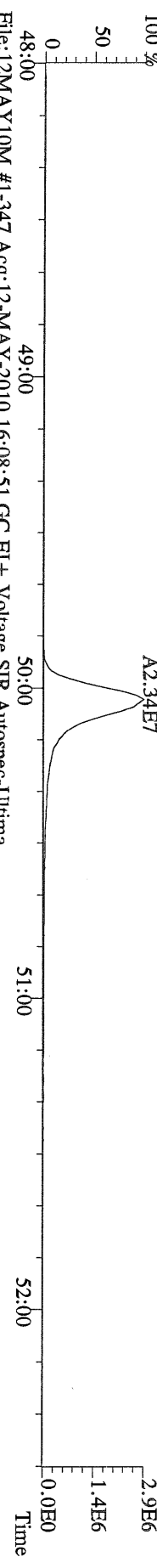
File:12MAY10M #1-347 Acq:12-MAY-2010 16:08:51 GC EI+ Voltage SIR Autospec-Utima
 441.7428 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



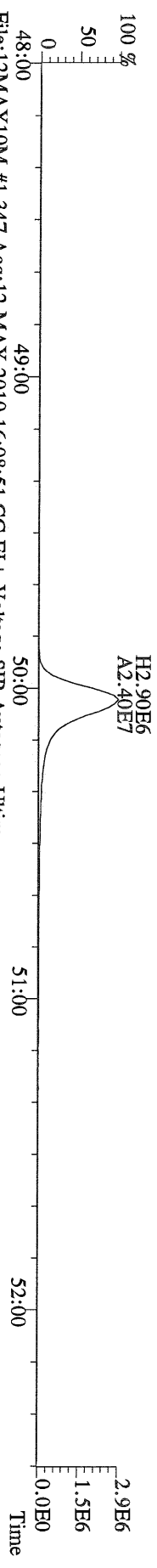
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 443.7398 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



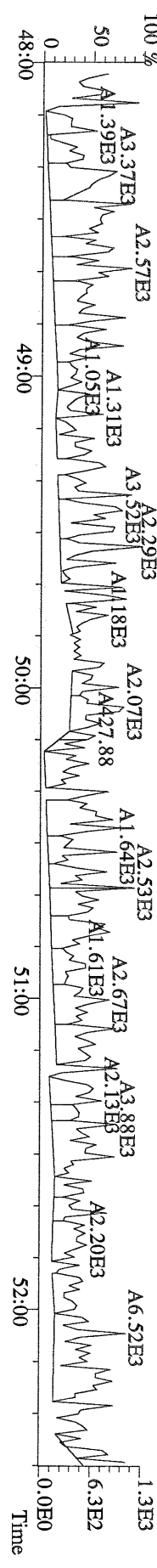
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 453.7831 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



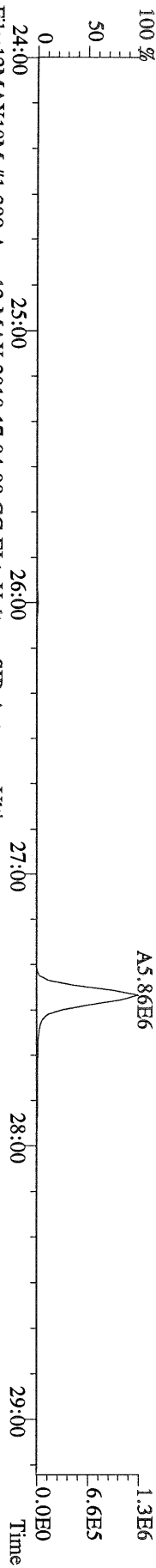
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 455.7801 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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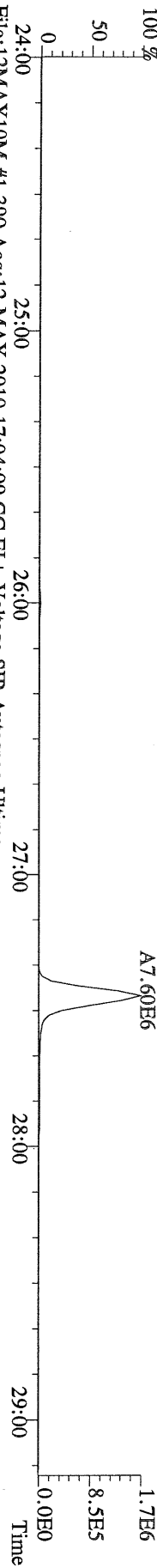
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 513.6775 S:4 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M3 File Text:Frontier Analytical Laboratory



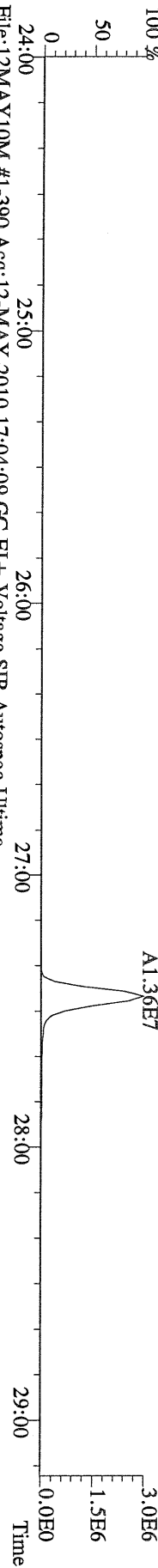
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
319.8965 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



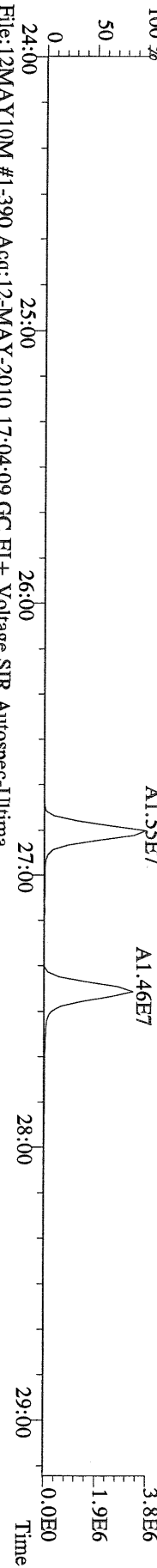
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321.8936 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



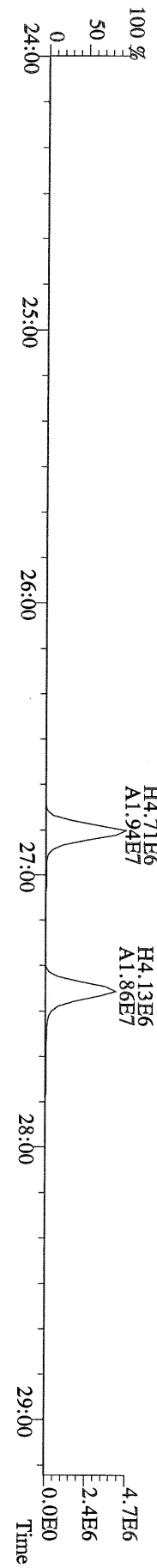
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327.8847 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



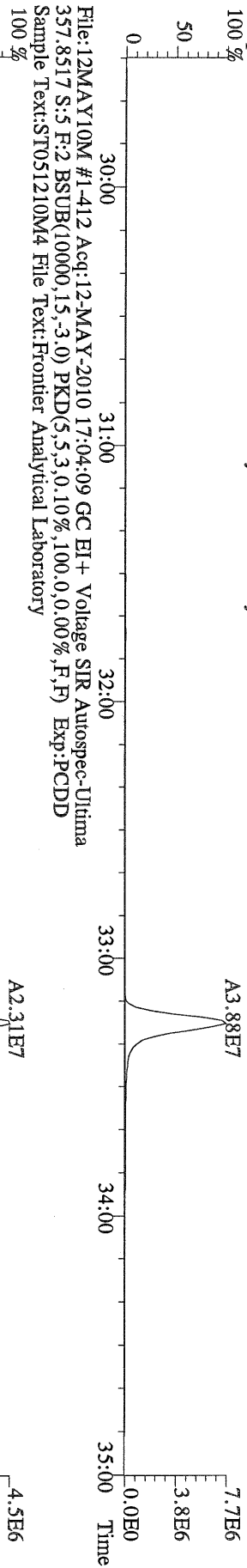
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331.9368 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



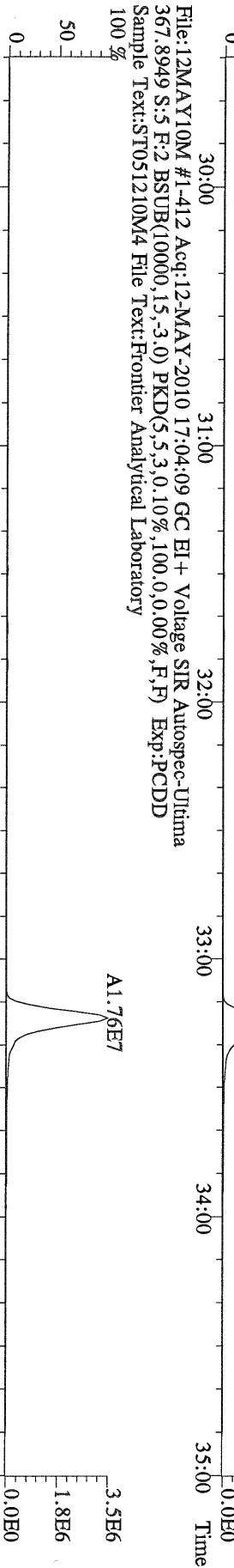
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333.9339 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



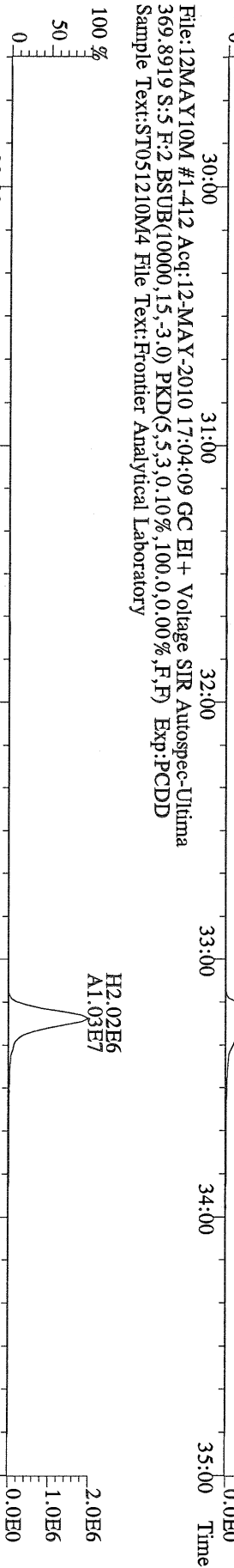
File:12MAY10M #1-412 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Ultima
355.8546 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



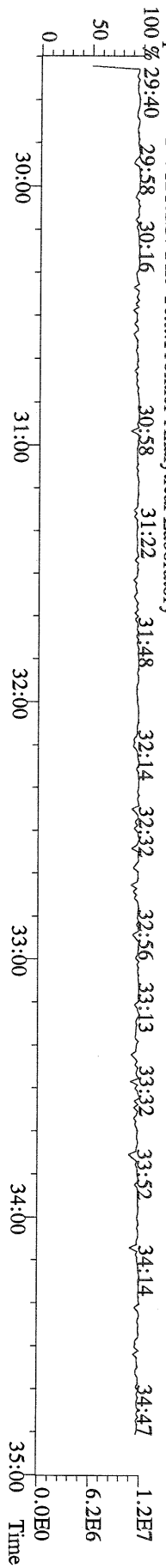
File:12MAY10M #1-412 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Ultima
357.8517 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



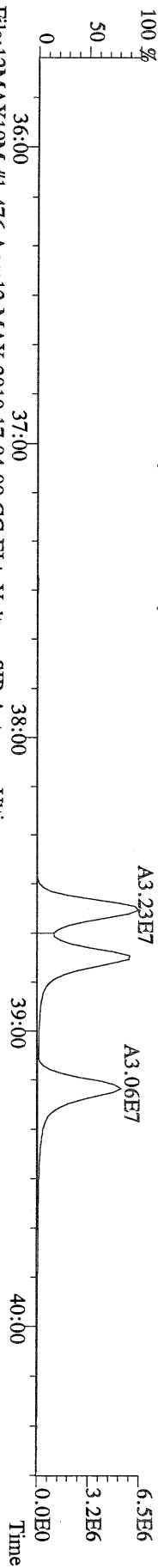
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367.8949 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



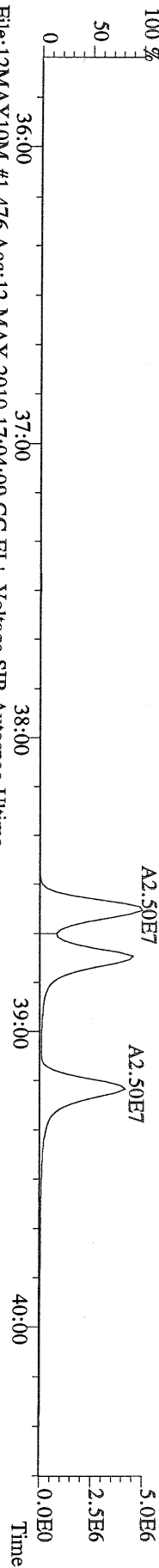
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366.9792 S:5 F:2 Exp:PCDD
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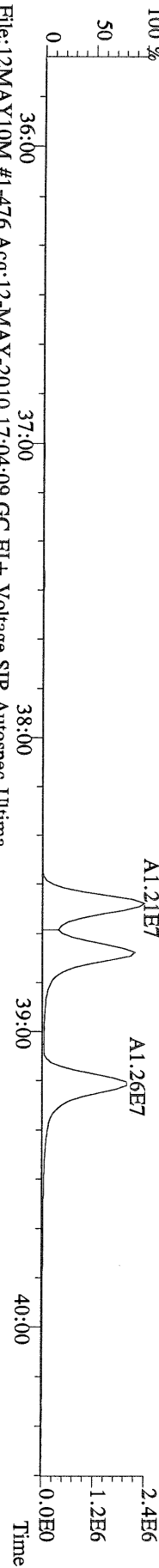
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389.8156 S:5 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



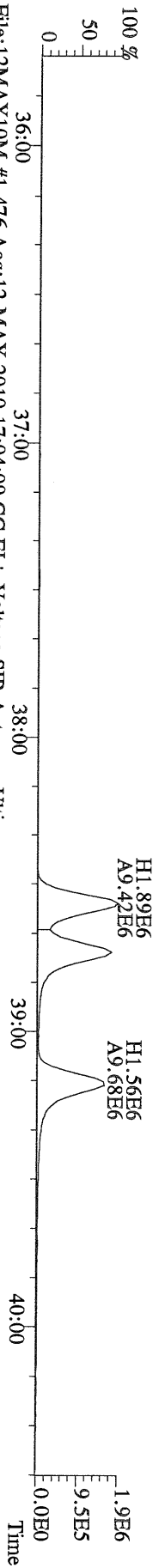
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391.8127 S:5 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



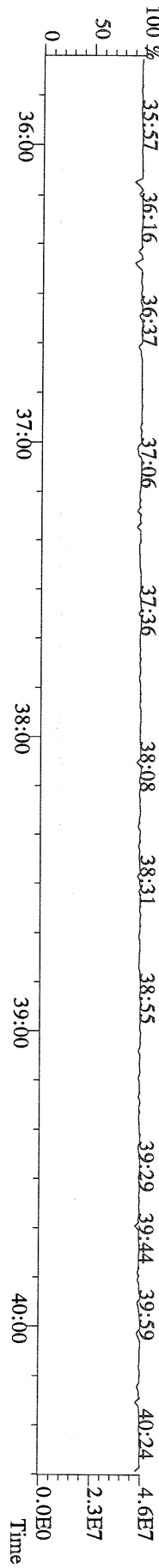
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401.8559 S:5 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



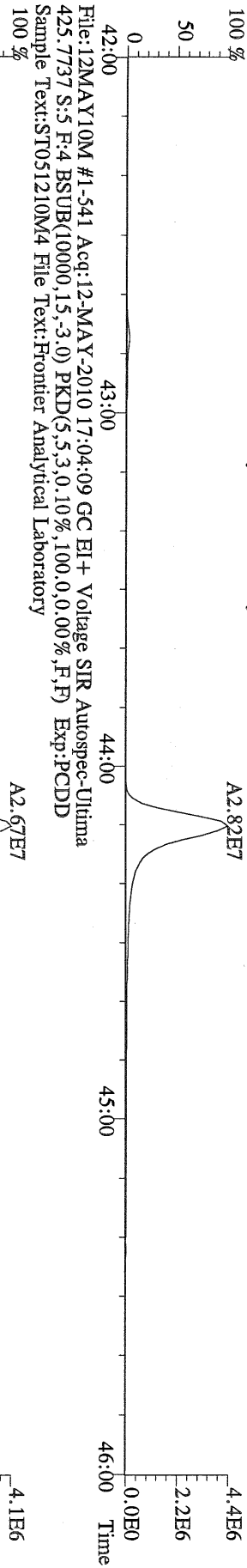
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403.8530 S:5 F:3 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



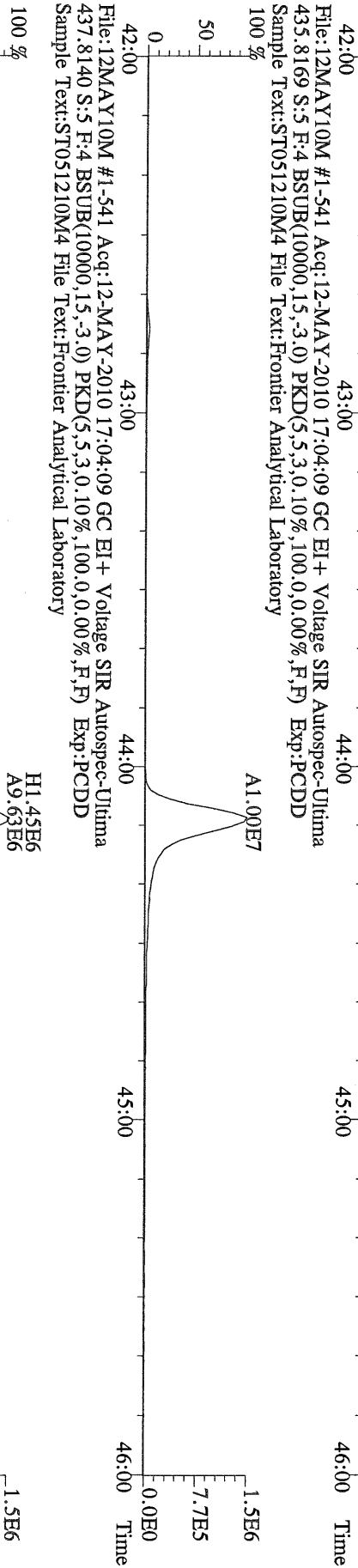
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380.9760 S:5 F:3 Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



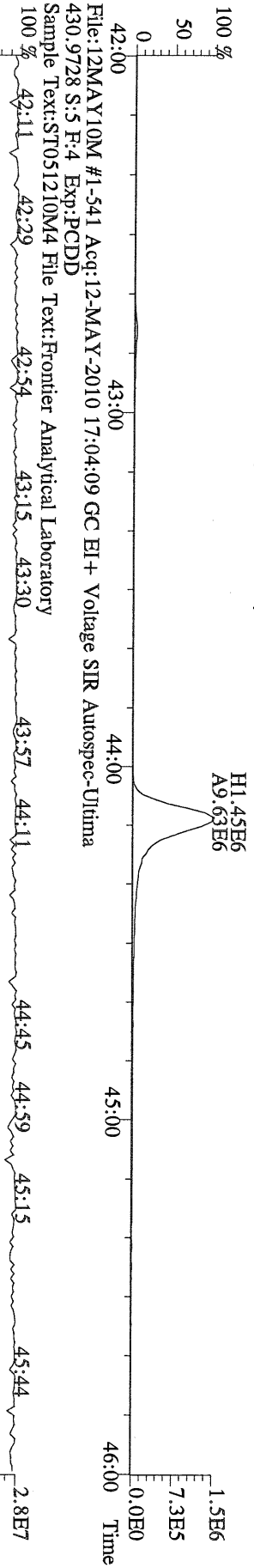
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423.7767 S:5 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



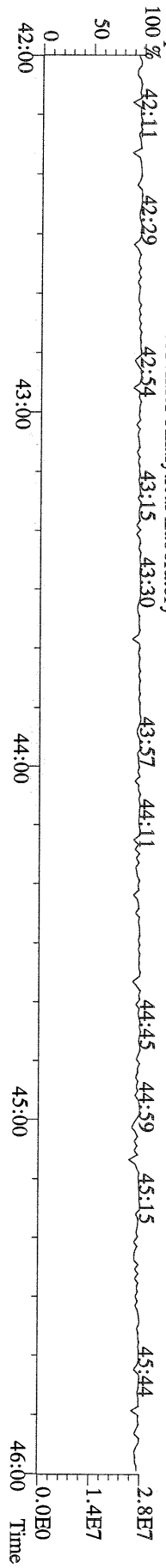
File:12MAY10M #1-541 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Utima
435.8169 S:5 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



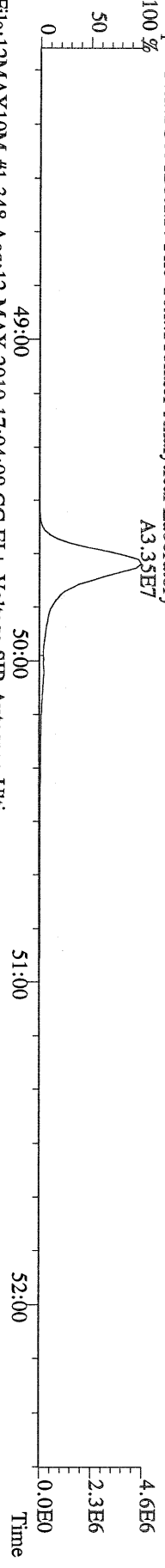
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437.8140 S:5 F:4 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



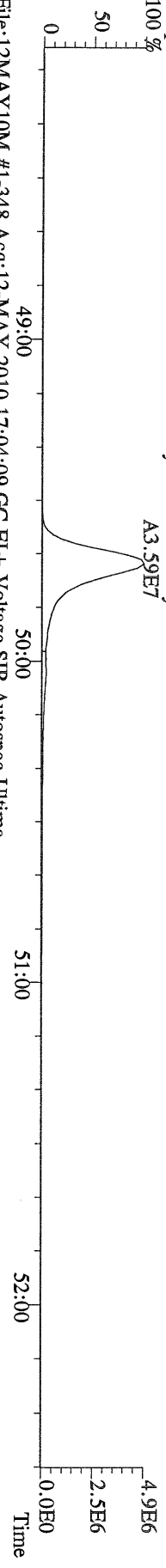
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430.9728 S:5 F:4 Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



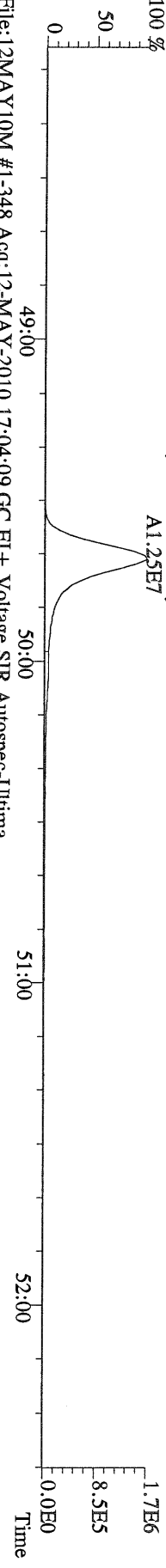
File:12MAY10M #1-348 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Utima
457.7377 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



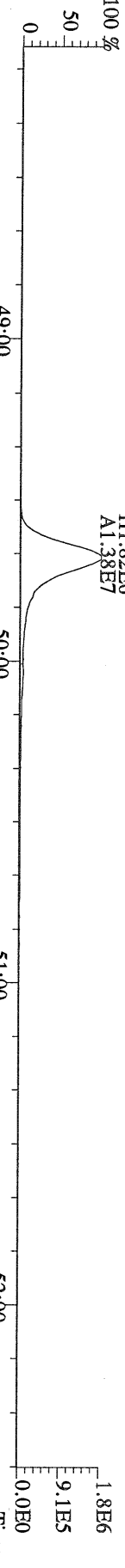
File:12MAY10M #1-348 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Utima
459.7348 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



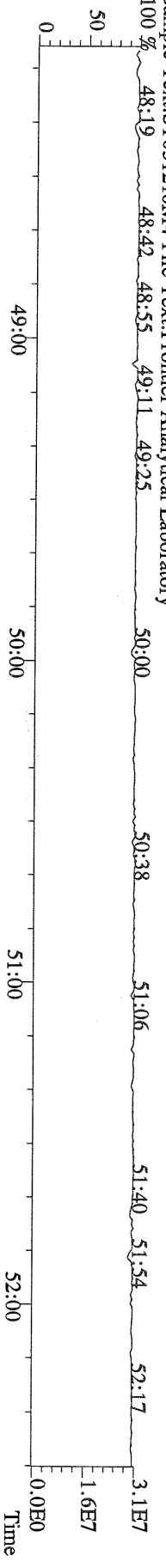
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469.7780 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



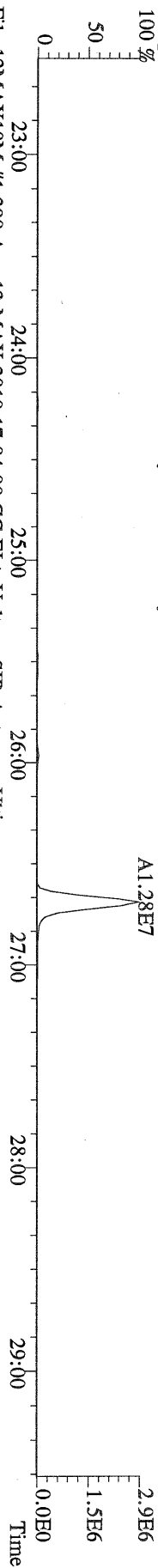
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471.7750 S:5 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



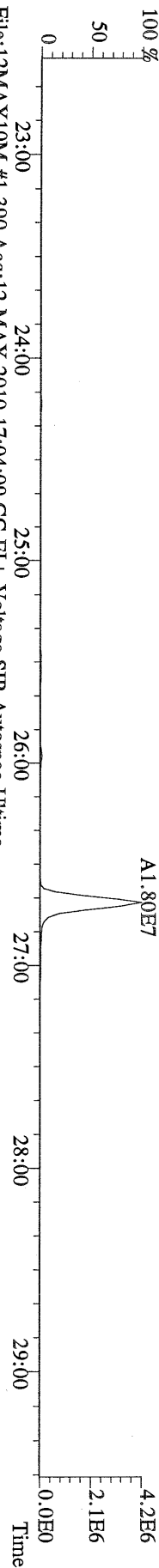
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454.9728 S:5 F:5 Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



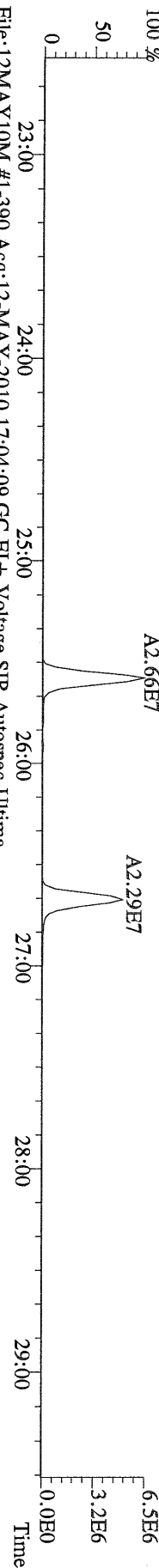
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
303.9016 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



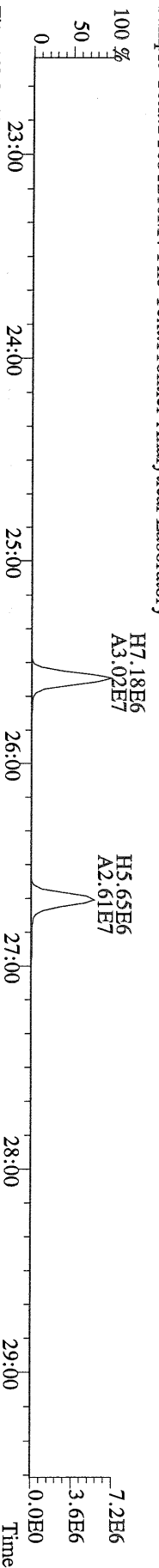
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Ultima
305.8987 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



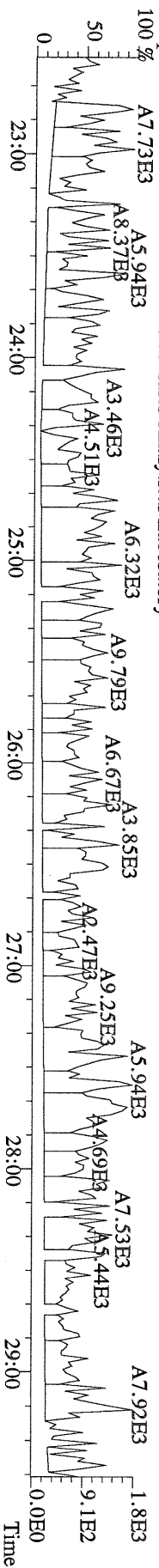
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Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



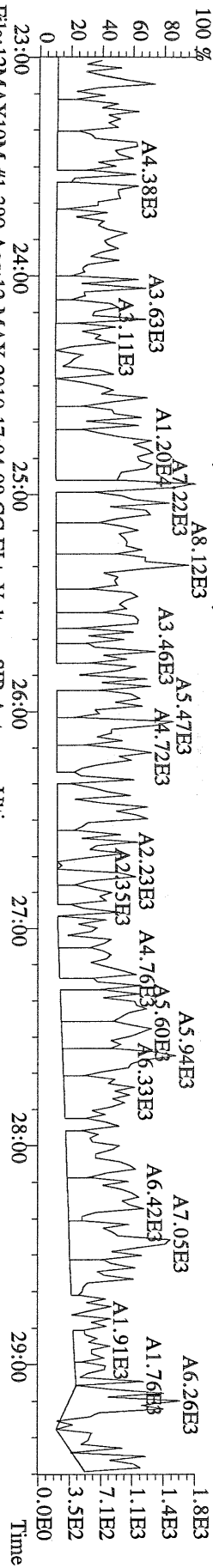
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317.9389 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



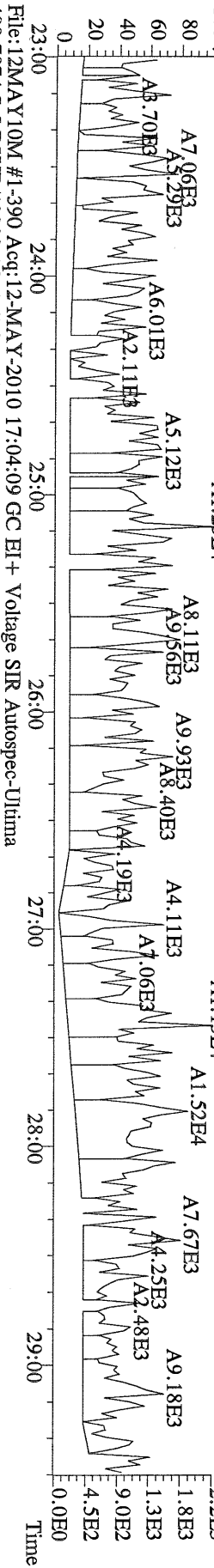
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375.8364 S:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



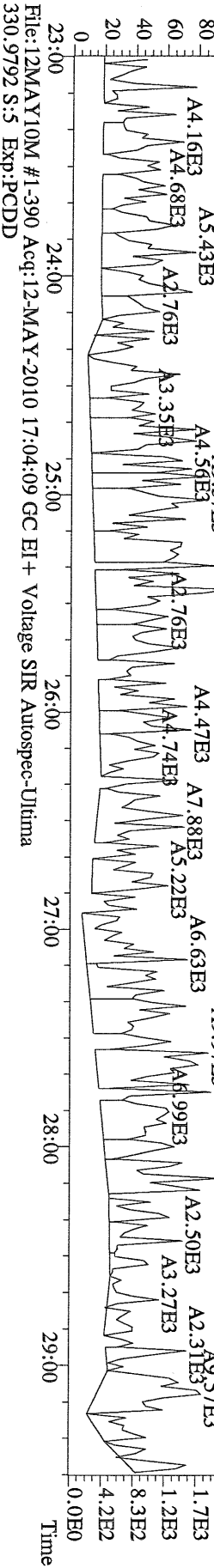
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 339.8597 S.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



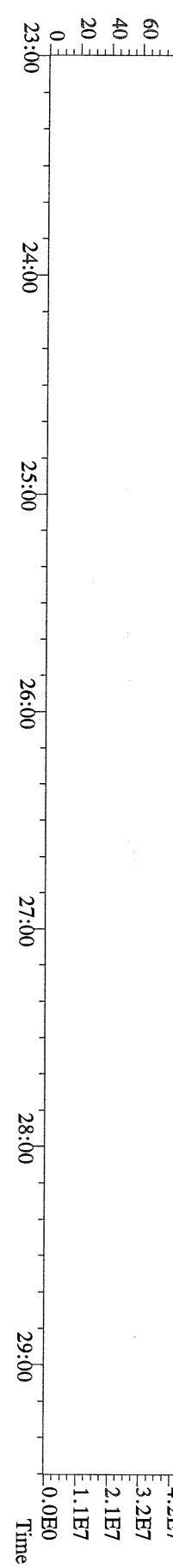
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 341.8568 S.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



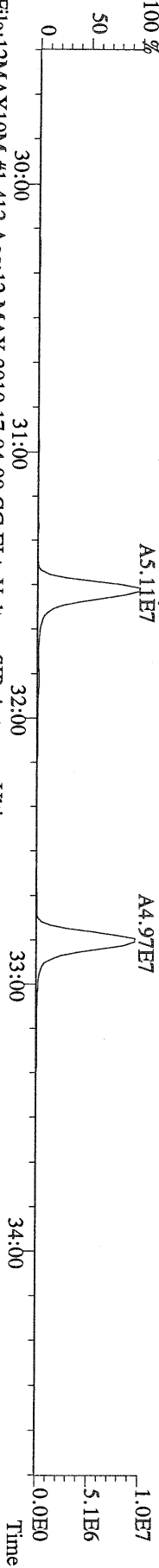
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Utima
 409.7974 S.5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



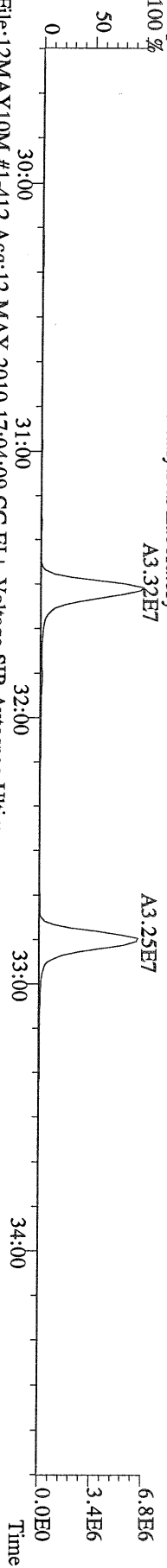
File:12MAY10M #1-390 Acq:12-MAY-2010 17:04:09 GC EI + Voltage SIR Autospec-Utima
 330.9792 S.5 Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



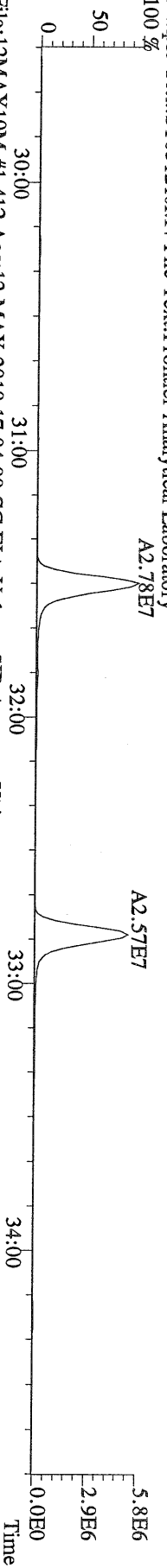
File:12MAY10M #1-412 Acq:12-MAY-2010 17:04:09 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



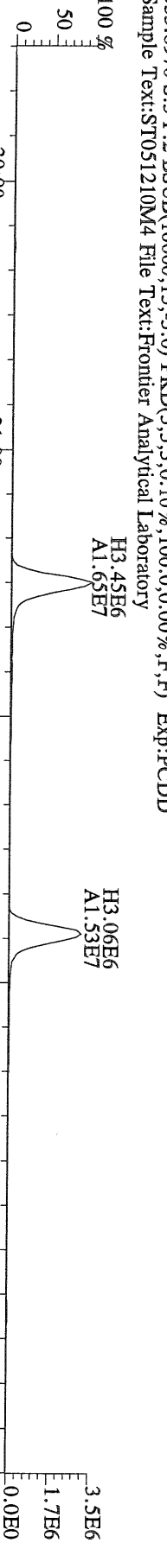
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 341.8568 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



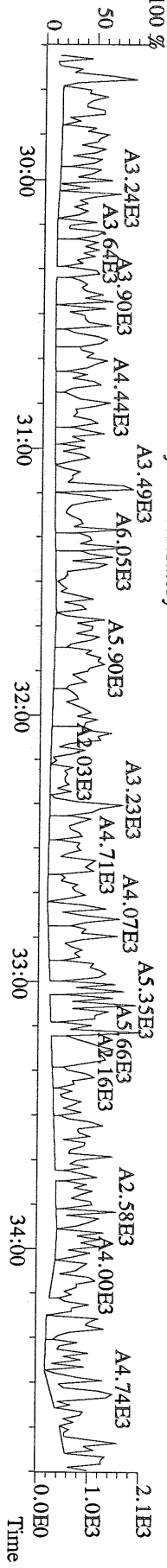
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 351.9000 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



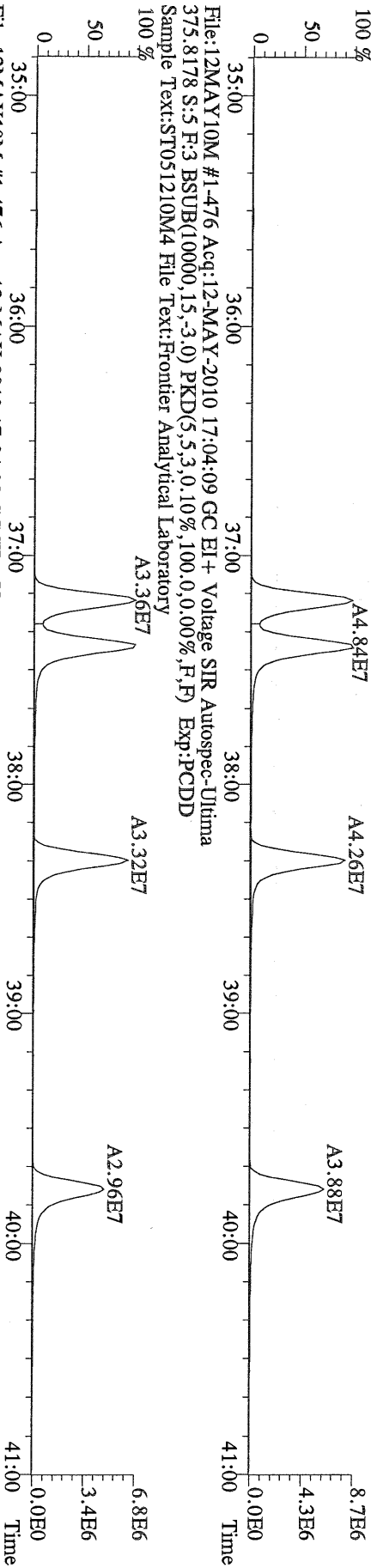
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 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



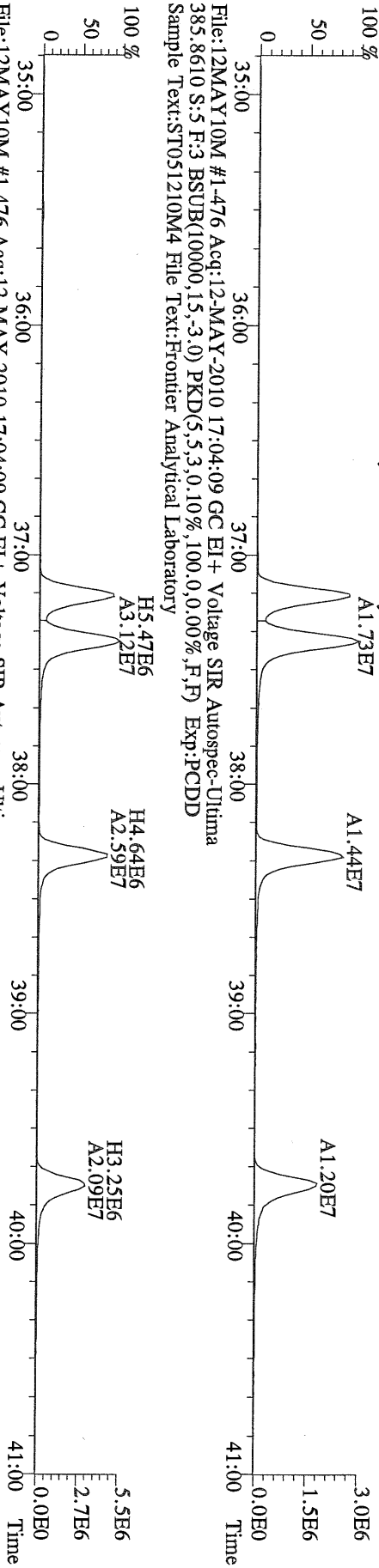
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 409.7974 S:5 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



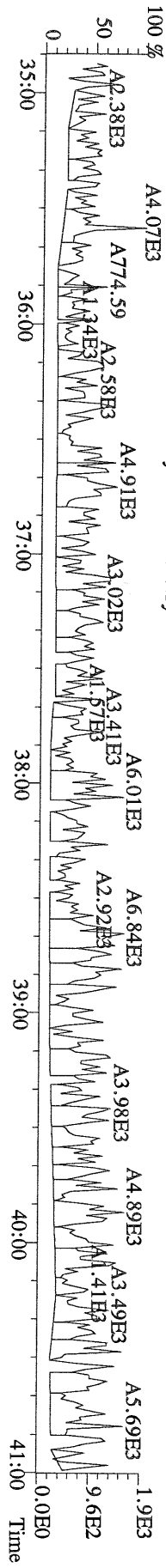
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 373.8207 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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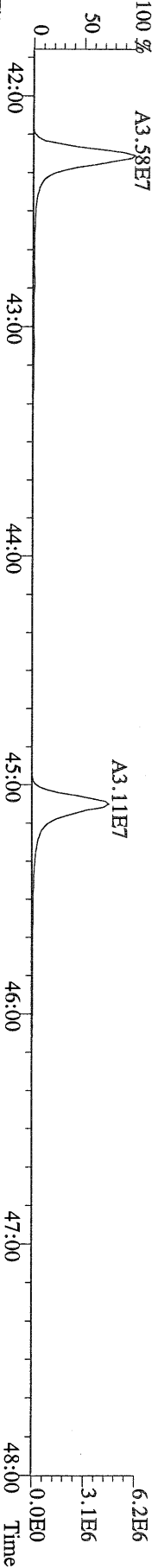
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 383.8639 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



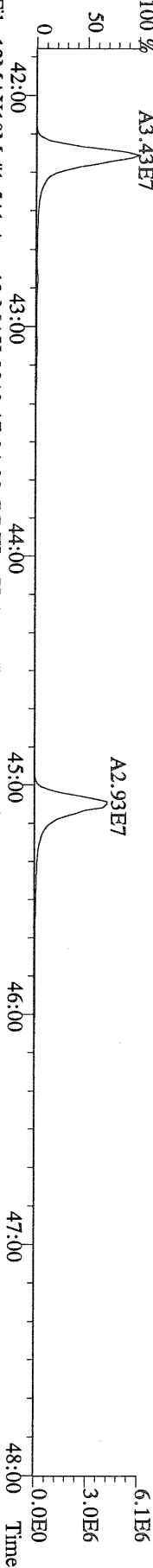
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 445.7555 S:5 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



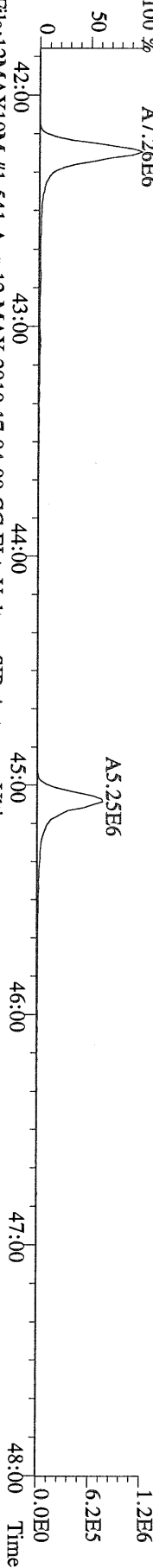
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407.7818 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



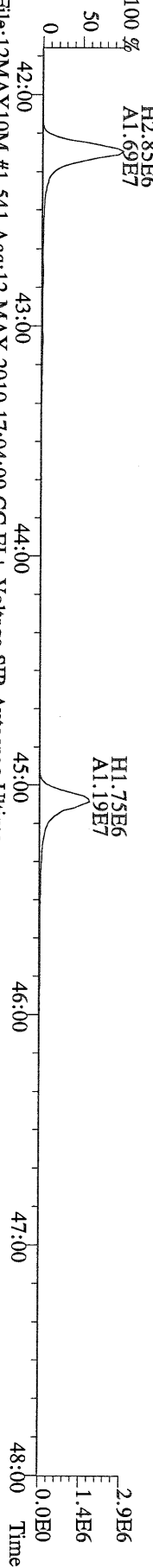
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409.7788 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



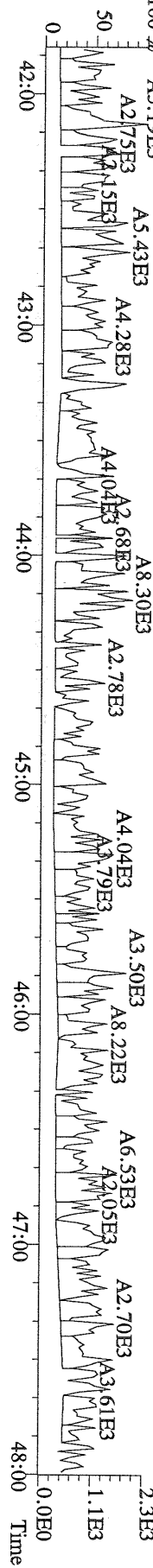
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417.8253 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



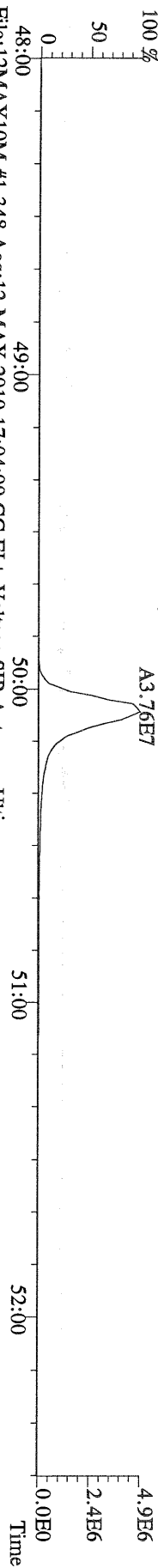
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419.8220 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



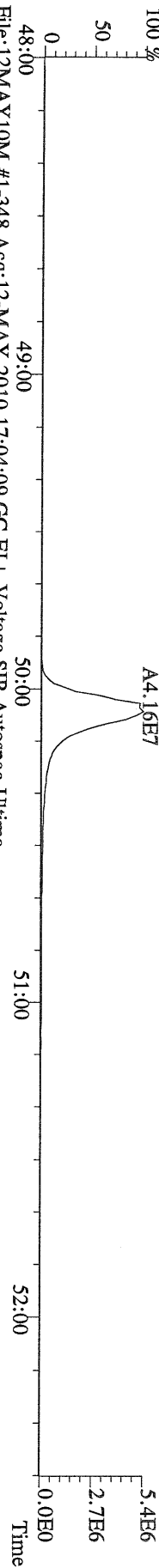
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479.7165 S:5 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



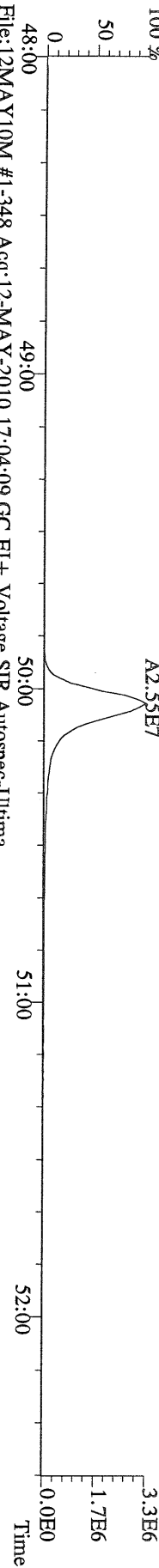
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441.7428 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



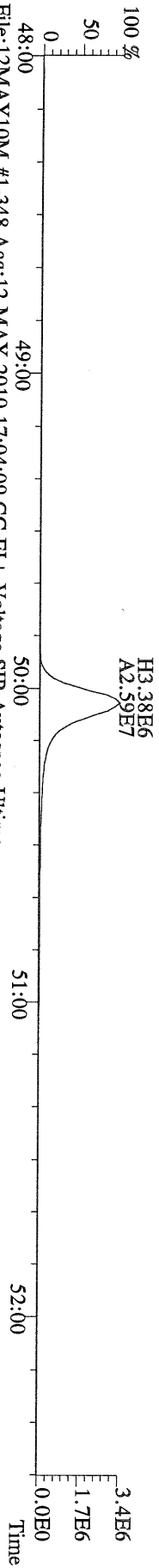
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443.7398 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



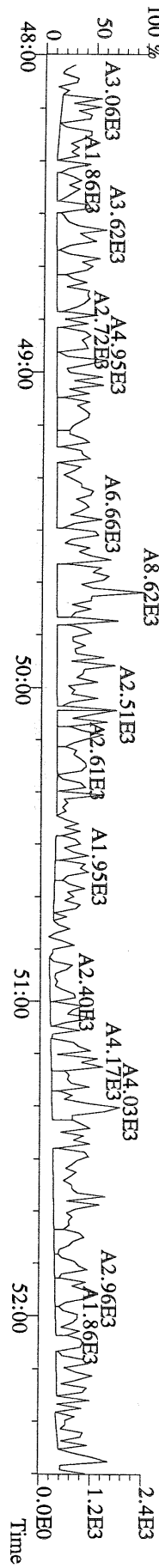
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453.7831 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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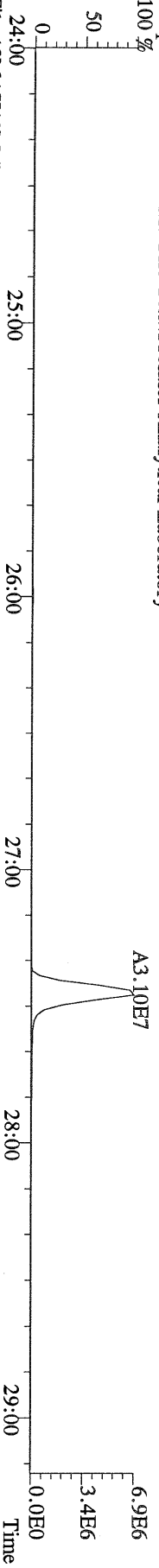
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455.7801 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



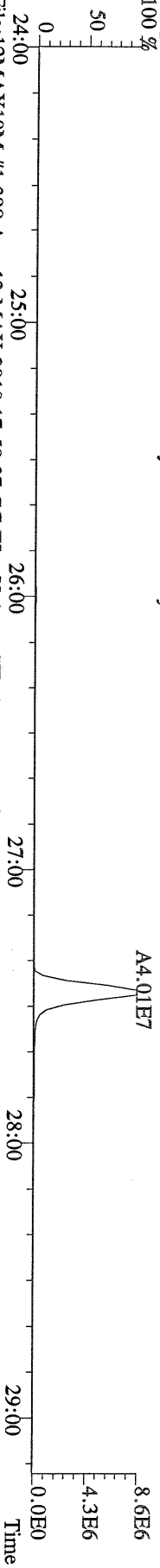
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513.6775 S:5 F:5 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M4 File Text:Frontier Analytical Laboratory



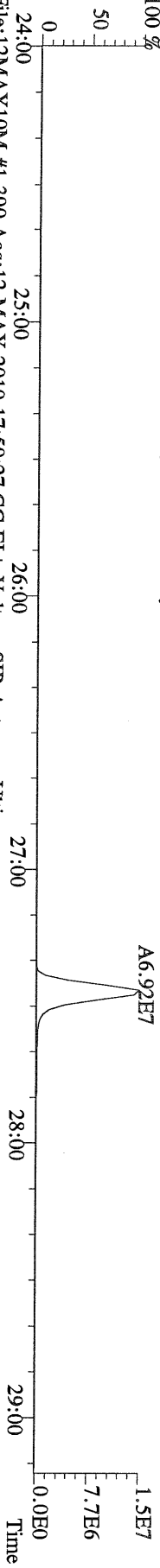
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319.8965 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



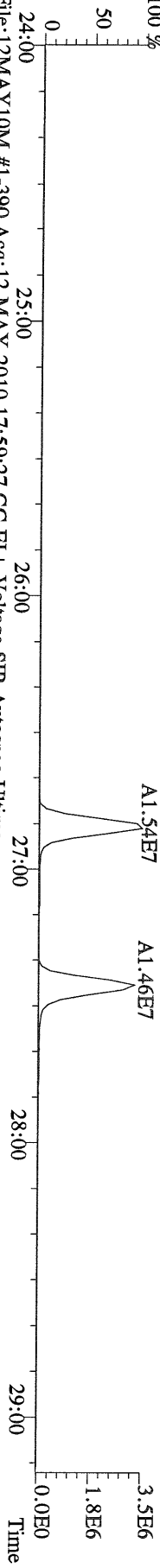
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Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



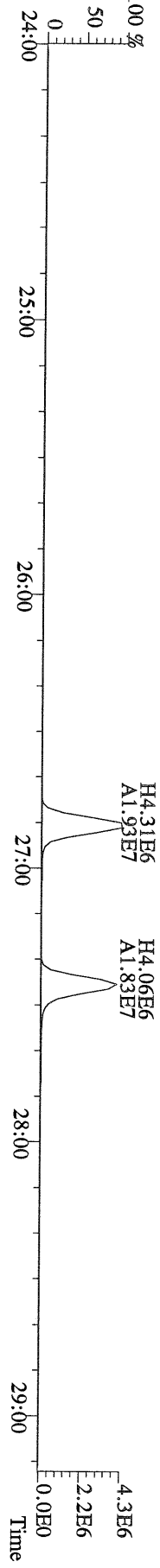
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327.8847 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



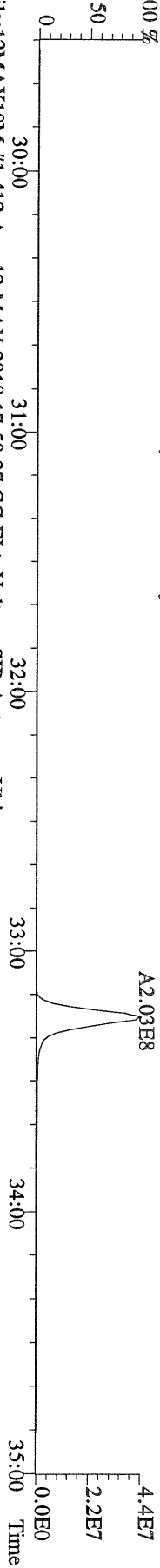
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331.9368 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



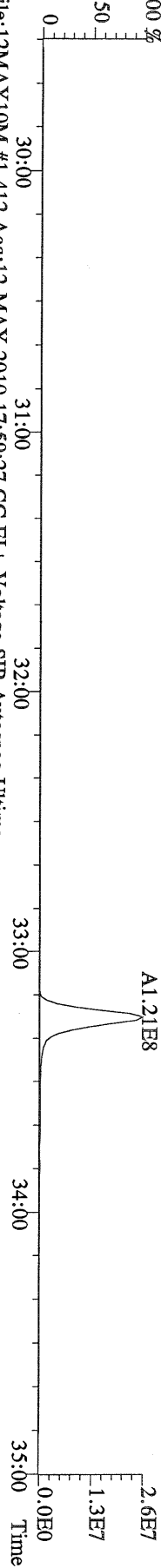
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333.9339 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



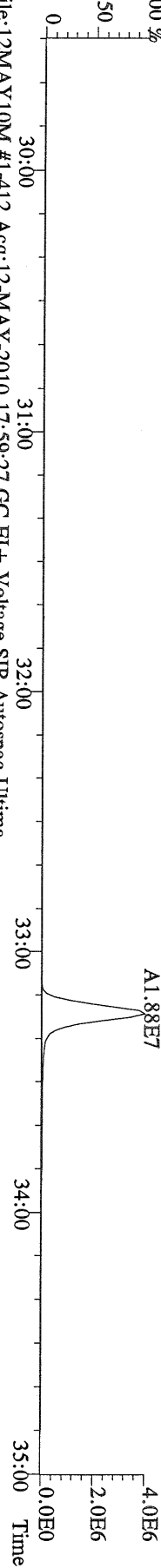
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355.8546 S:6 F:2 BSub(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Fronter Analytical Laboratory



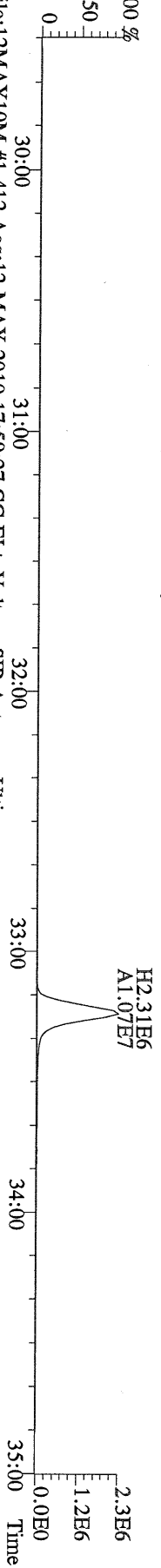
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357.8517 S:6 F:2 BSub(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Fronter Analytical Laboratory



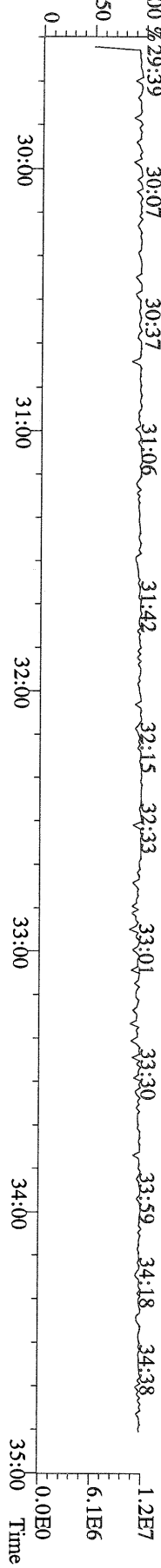
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367.8949 S:6 F:2 BSub(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Fronter Analytical Laboratory



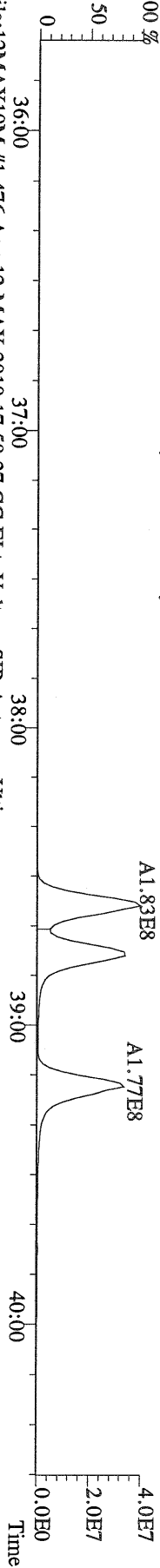
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369.8919 S:6 F:2 BSub(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Fronter Analytical Laboratory



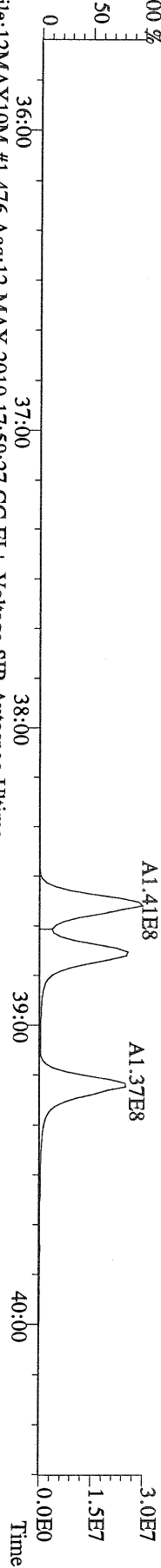
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366.9792 S:6 F:2 Exp:PCDD
Sample Text:ST051210M5 File Text:Fronter Analytical Laboratory



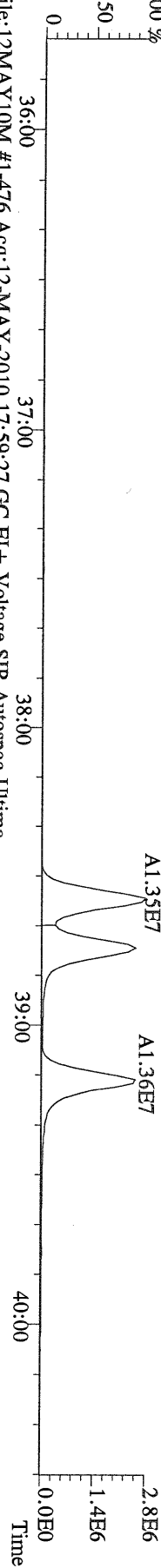
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 389.8156 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



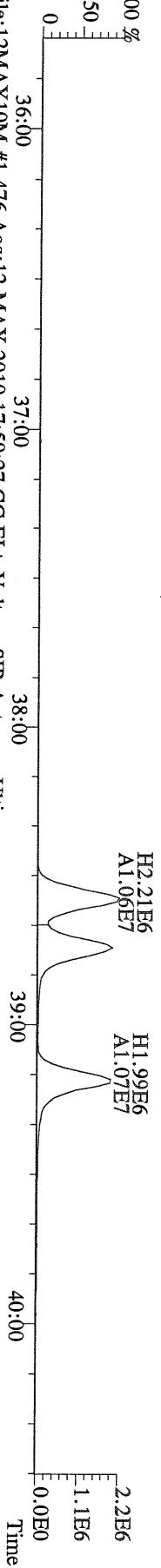
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 391.8127 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



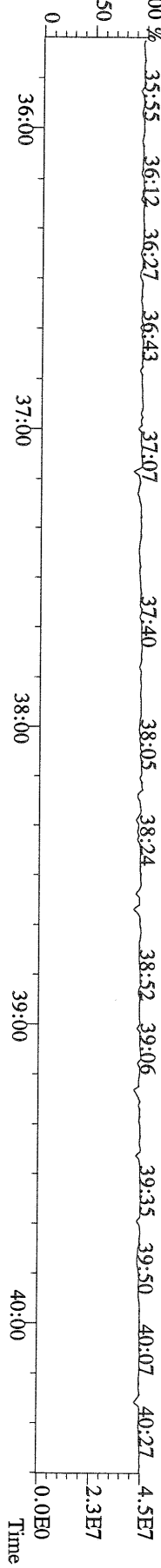
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 401.8559 S:6 F:3 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



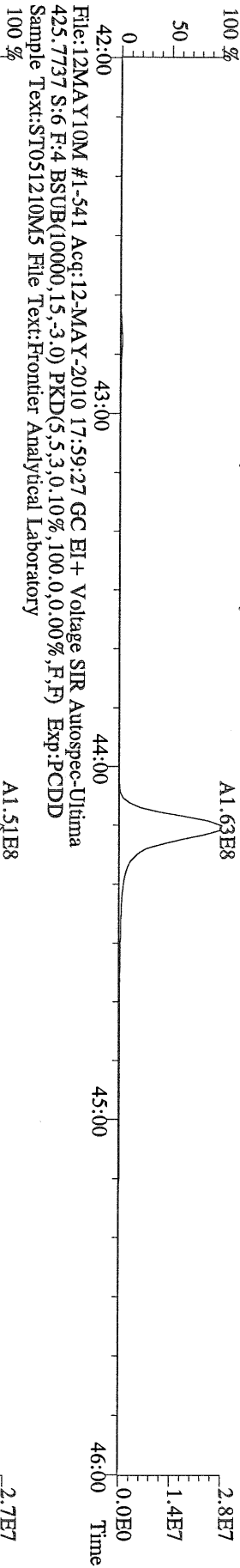
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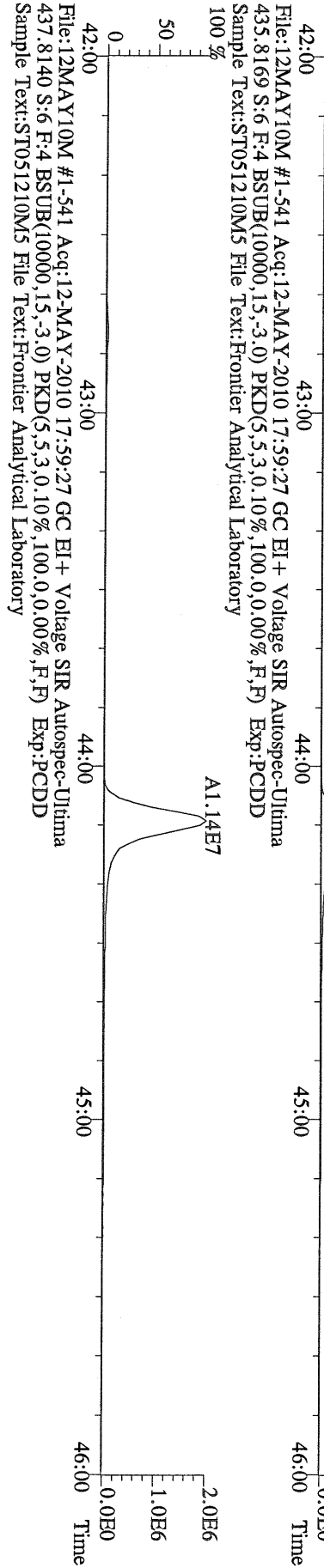
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 380.9760 S:6 F:3 Exp:PCDD
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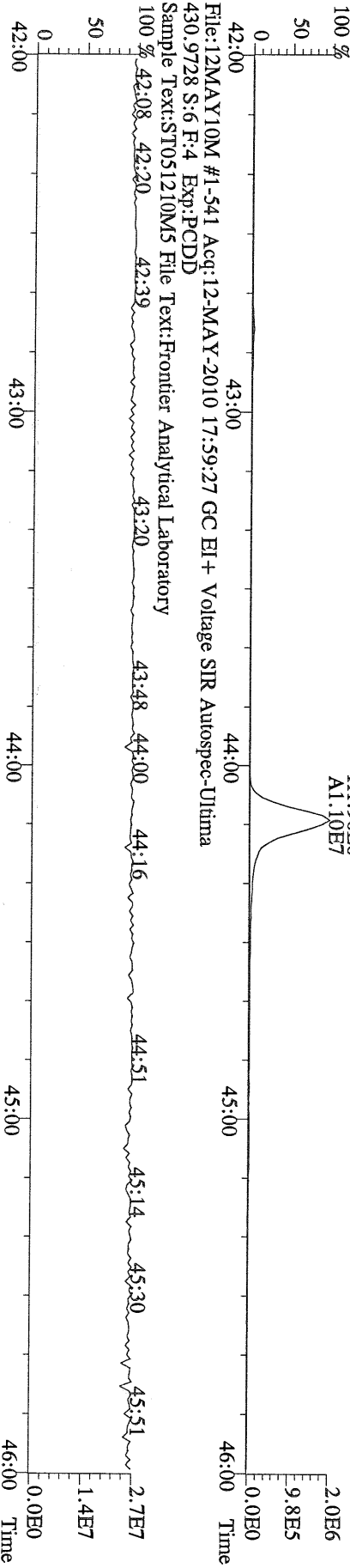
File:12MAY10M #1-541 Acq:12-MAY-2010 17:59:27 GC EI + Voltage SIR Autospec-Ultima
423.7767 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



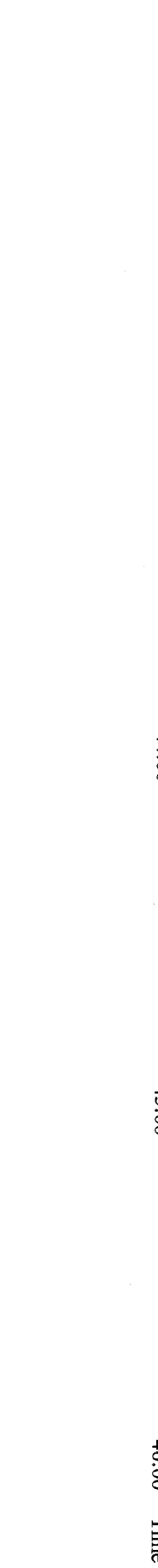
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425.7737 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



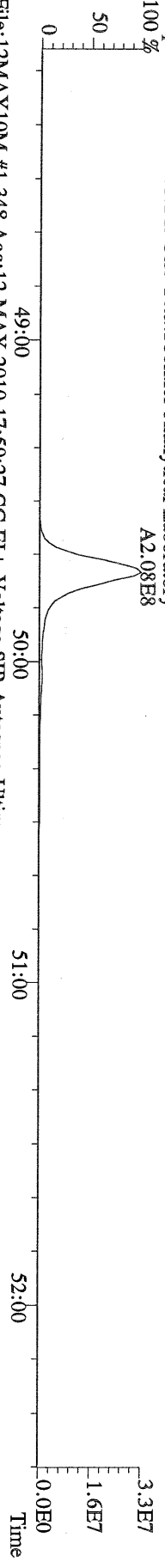
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437.8140 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



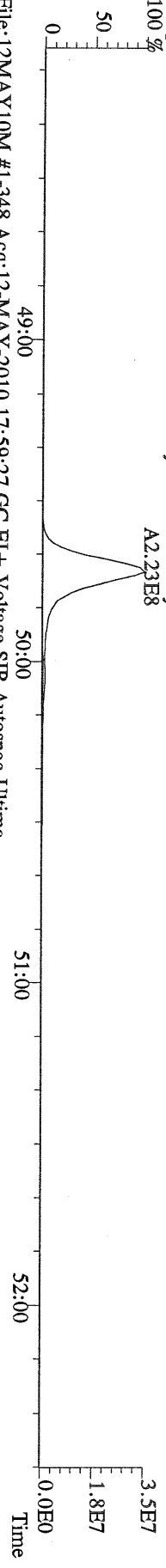
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430.9728 S:6 F:4 Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



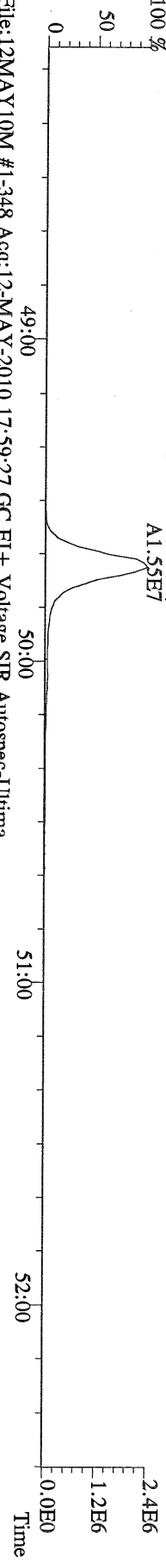
File:12MAY10M #1-348 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
457.7377 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



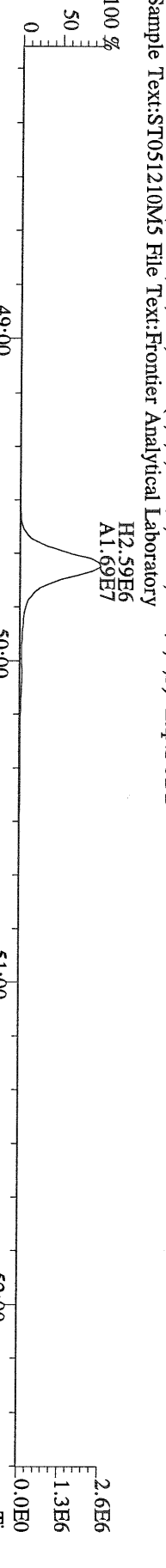
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459.7348 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



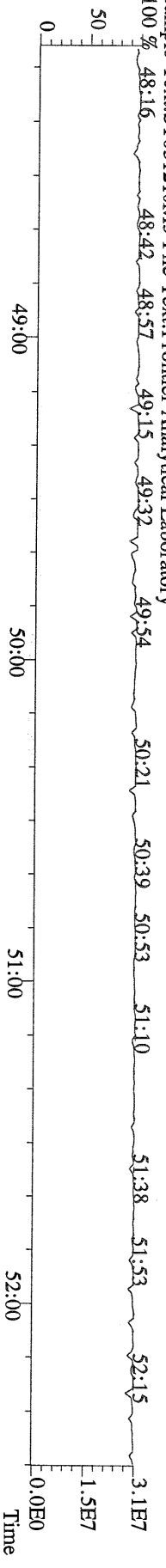
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469.7780 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory
100 %



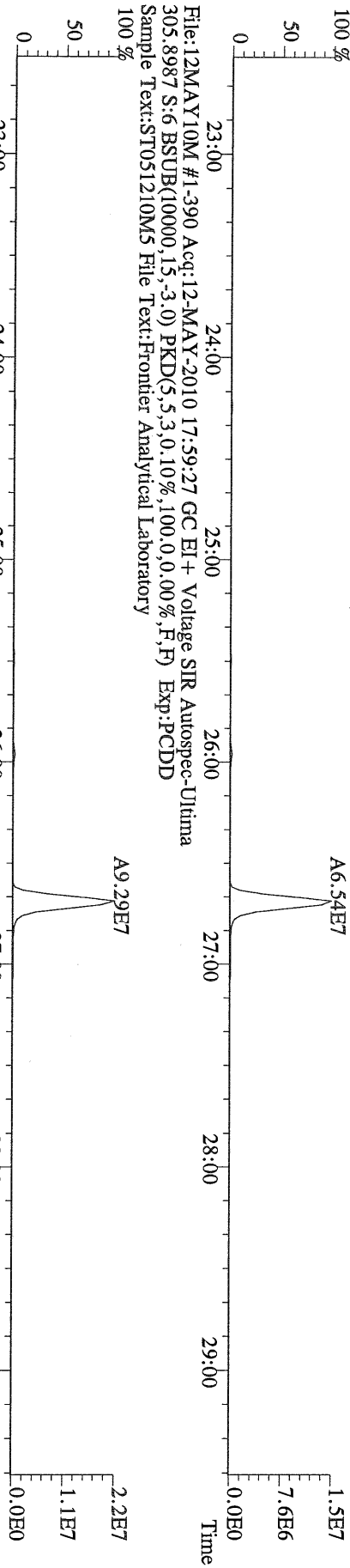
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471.7750 S:6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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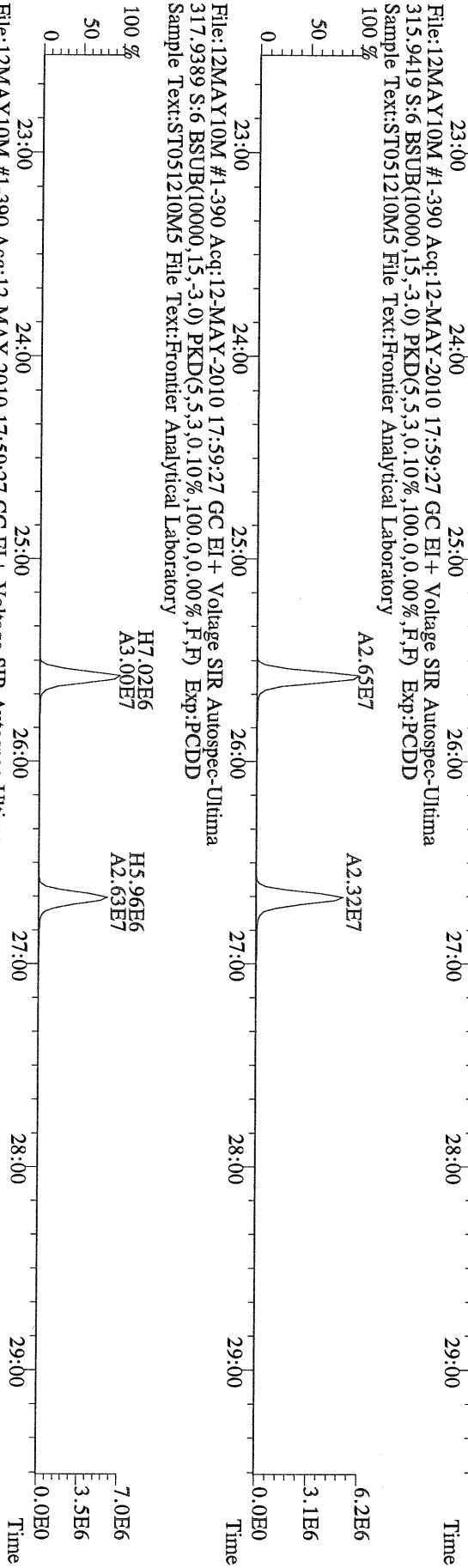
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454.9728 S:6 F:5 Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



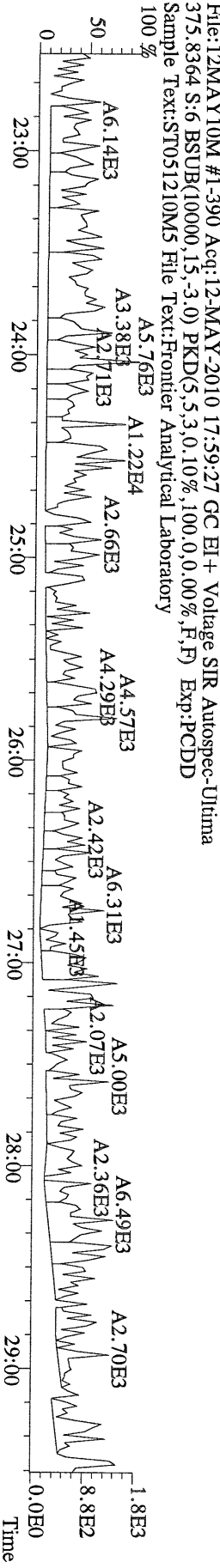
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303.9016 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



File:12MAY10M #1-390 Acq:12-MAY-2010 17:59:27 GC EI + Voltage SIR Autospec-Utima
315.9419 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory

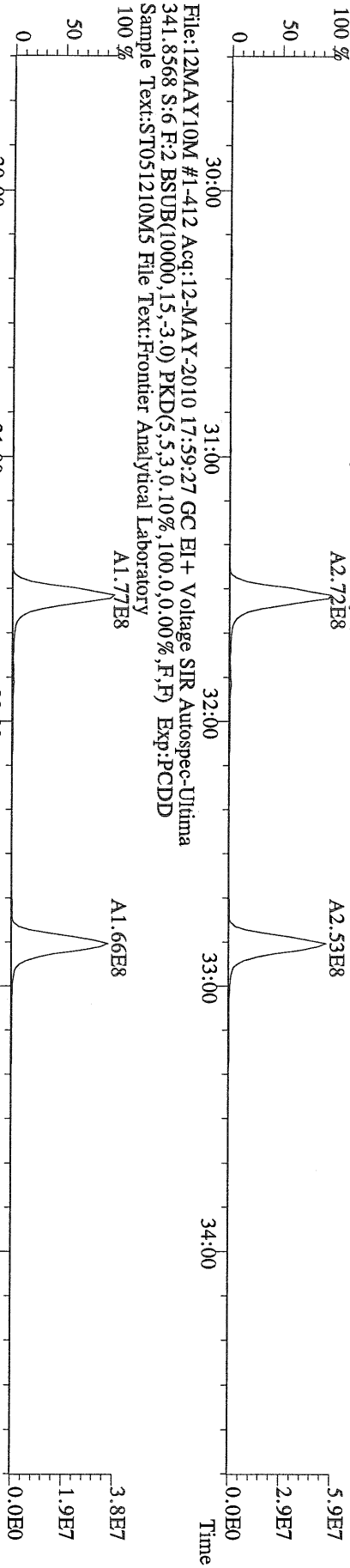


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317.9389 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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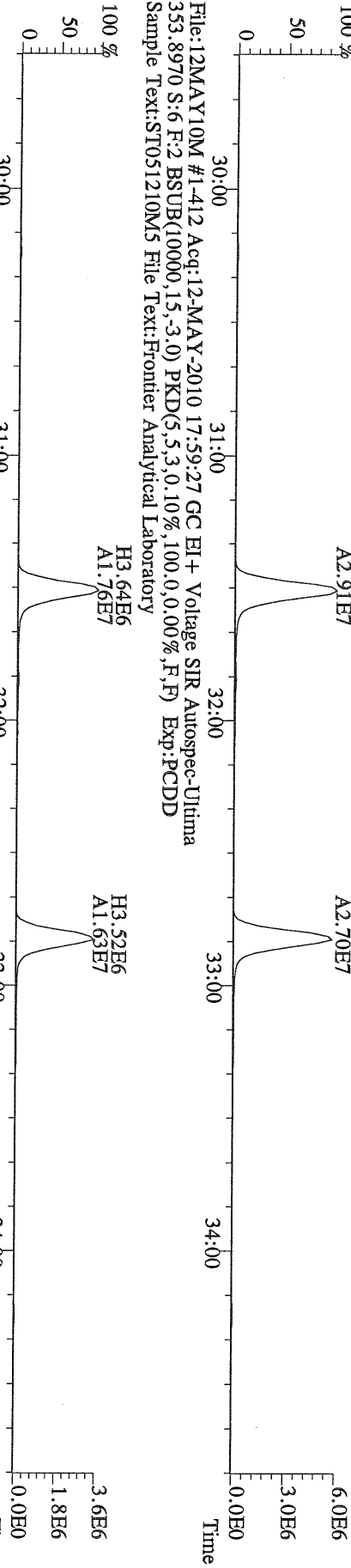


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375.8364 S:6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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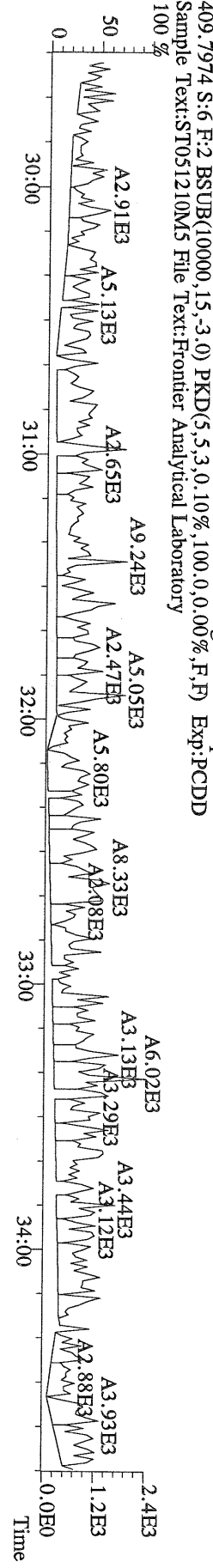
File:12MAY10M #1-412 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
339.8597 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



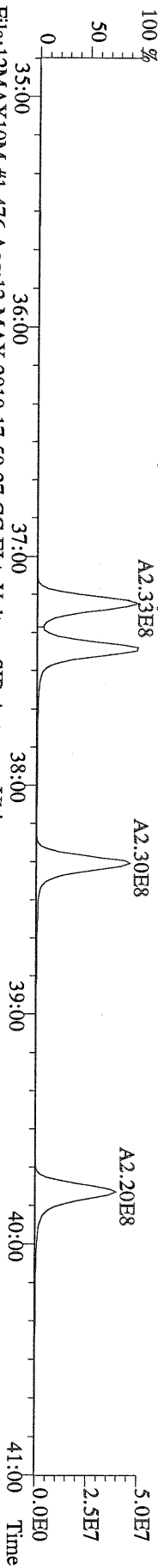
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351.9000 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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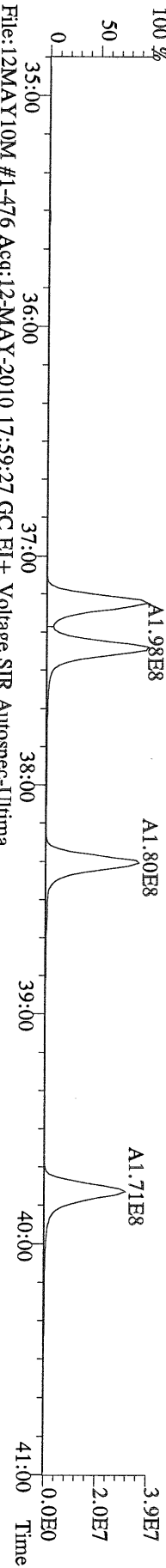
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409.7974 S:6 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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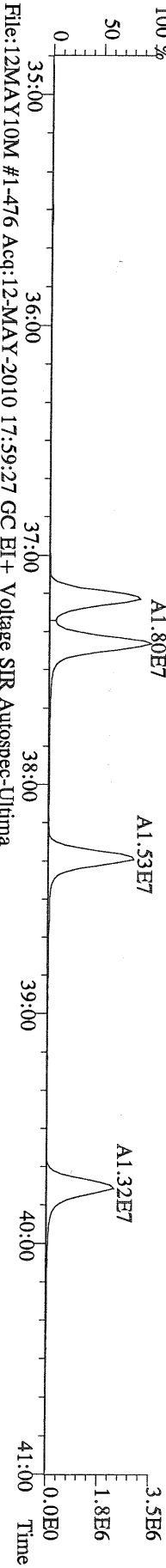
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 373.8207 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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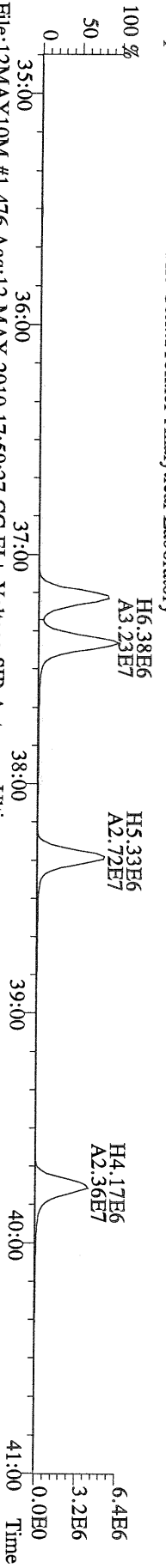
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 375.8178 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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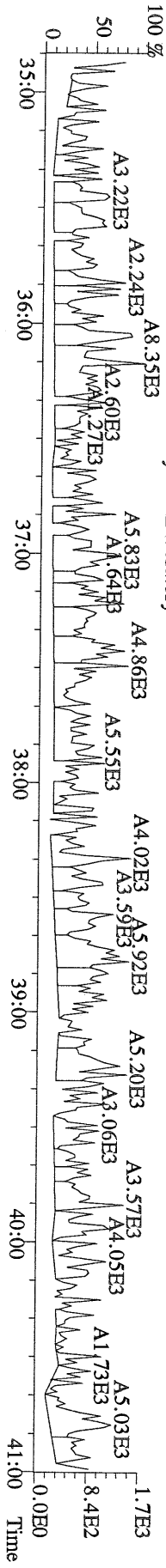
File:12MAY10M #1-476 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
 383.8639 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



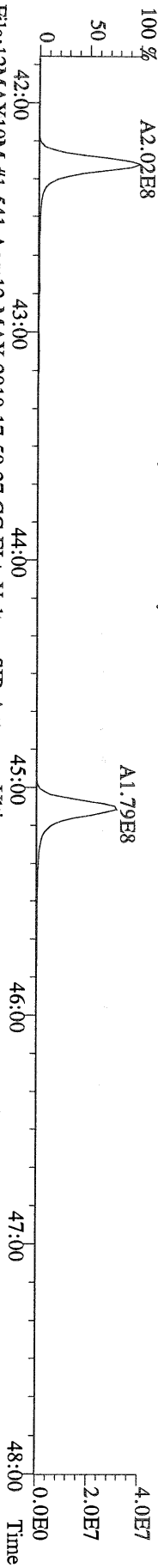
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 385.8610 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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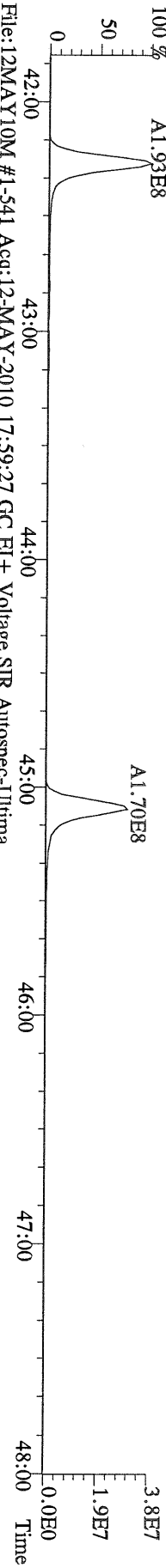
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 445.7555 S:6 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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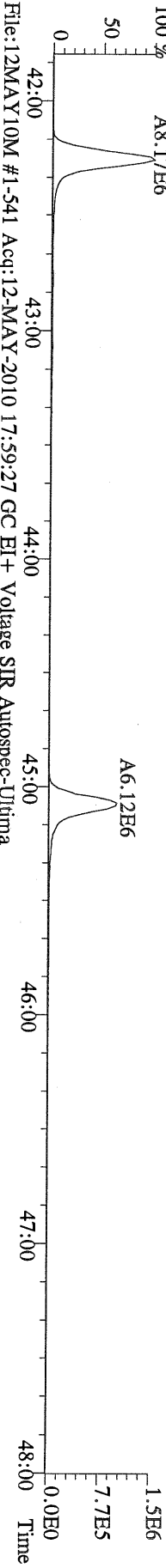
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407.7818 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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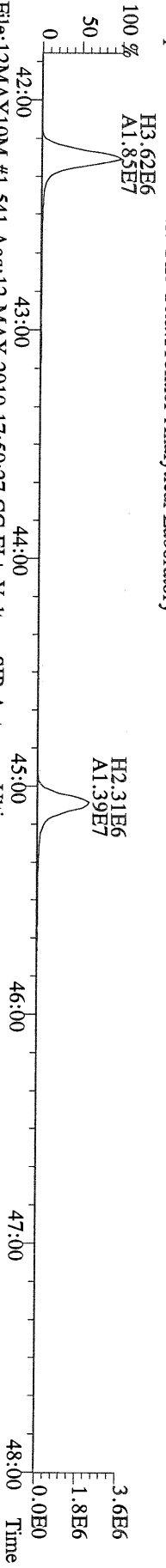
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409.7788 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



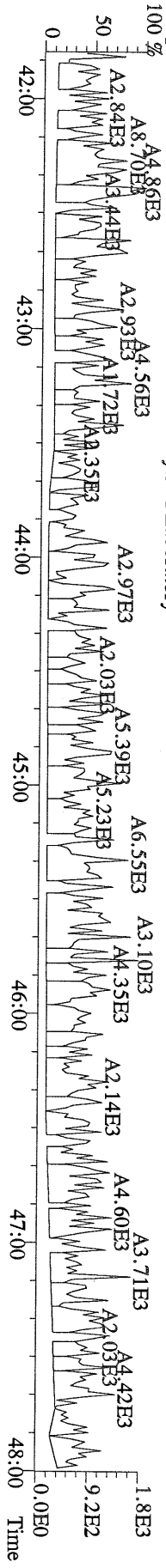
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417.8253 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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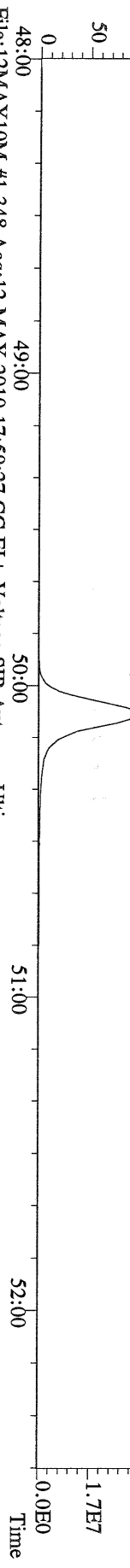
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419.8220 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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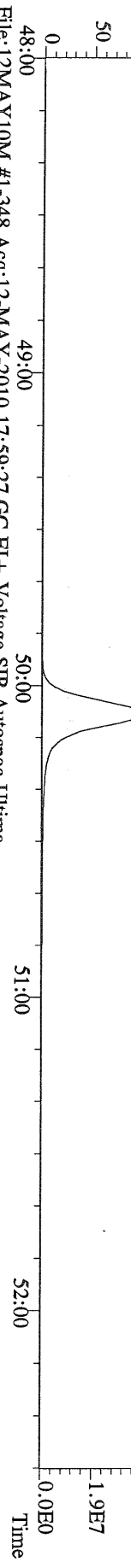
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479.7165 S:6 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



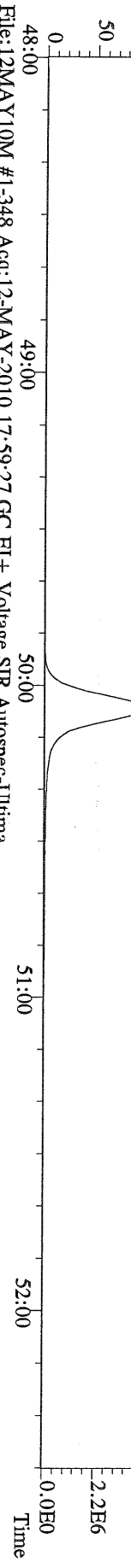
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441.7428 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



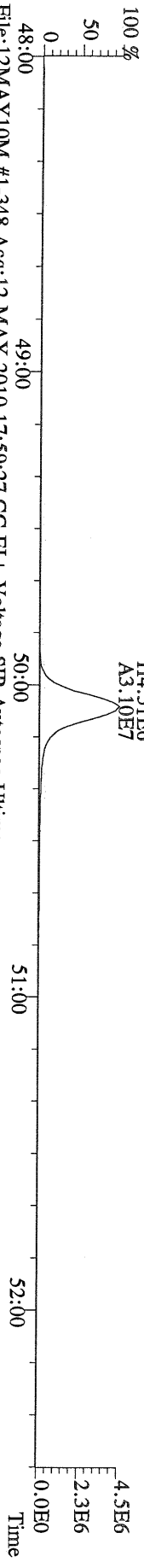
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443.7398 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory



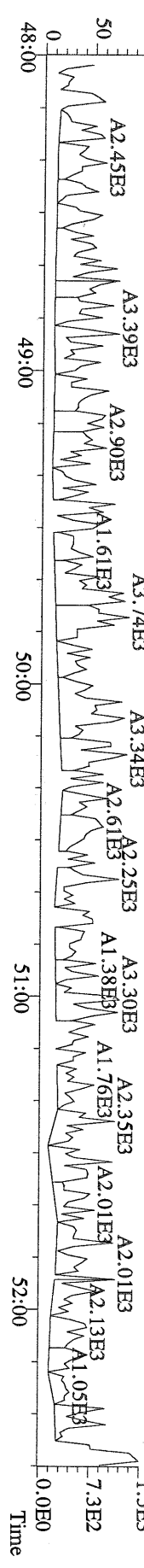
File:12MAY10M #1-348 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
453.7831 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory

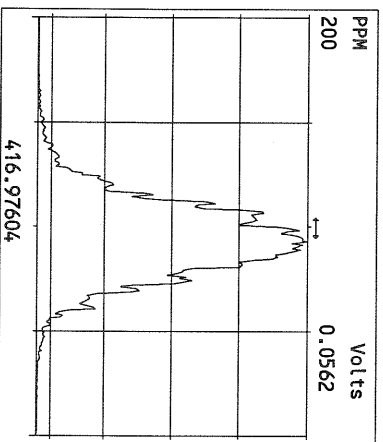
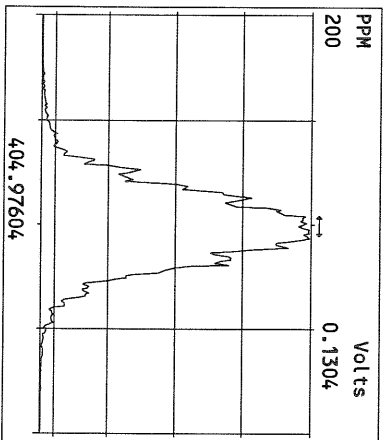
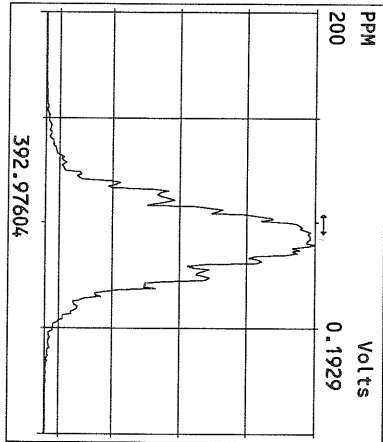
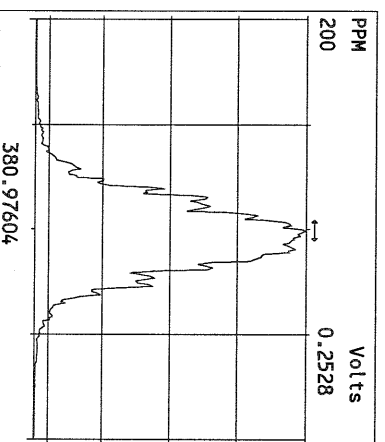
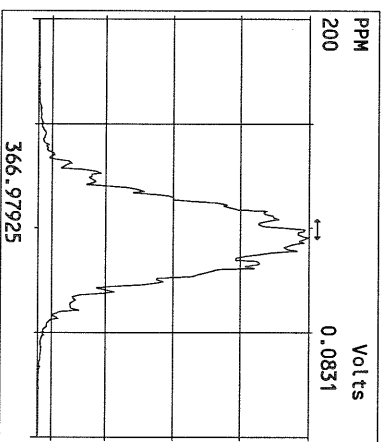
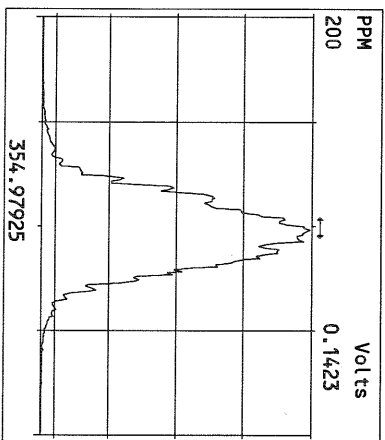
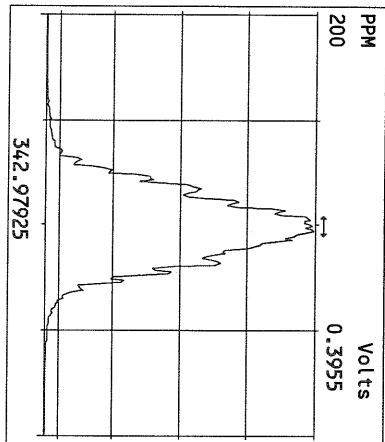
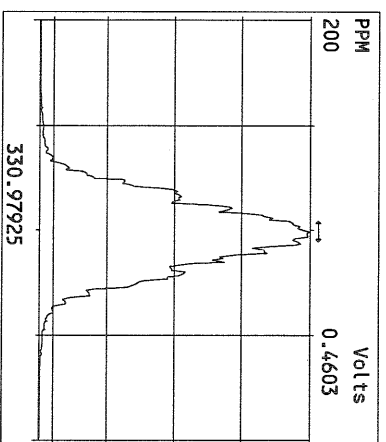
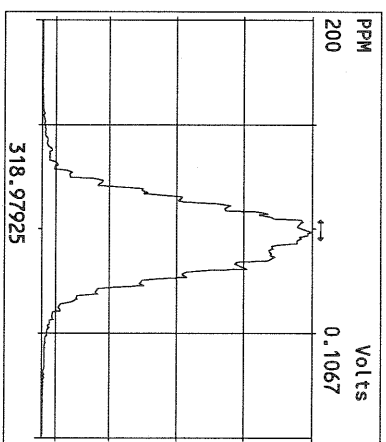
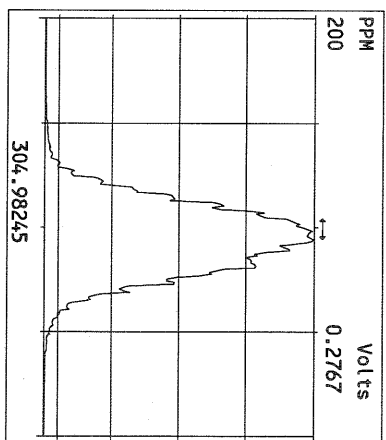
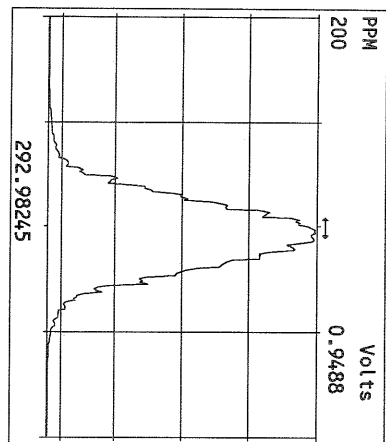


File:12MAY10M #1-348 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
455.7801 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory

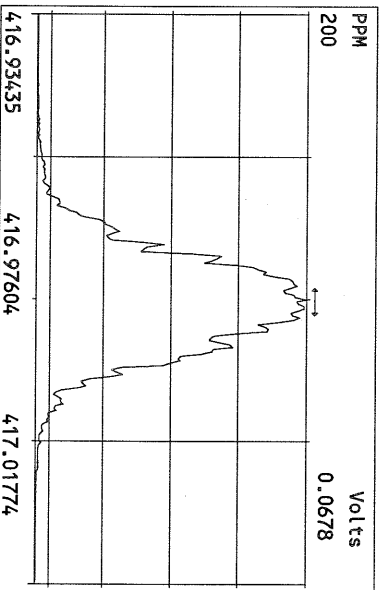
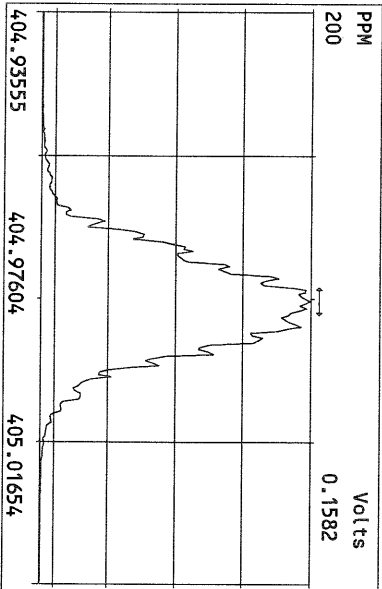
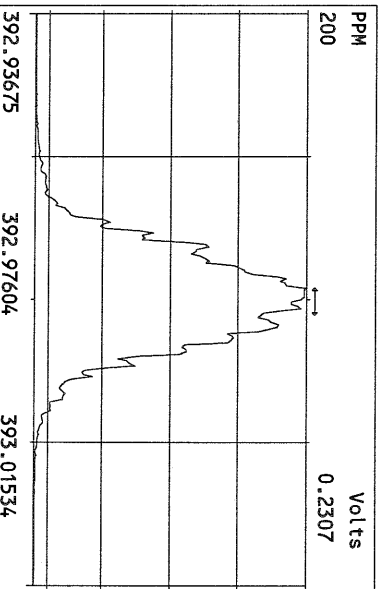
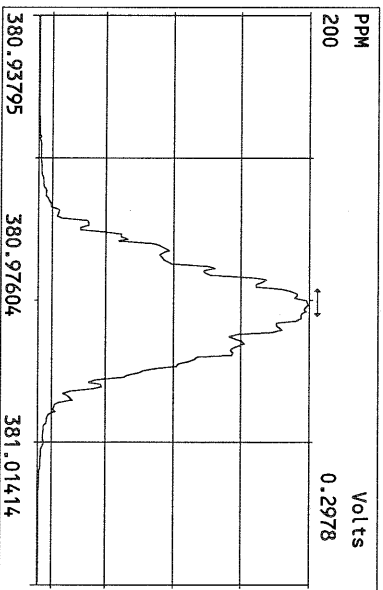
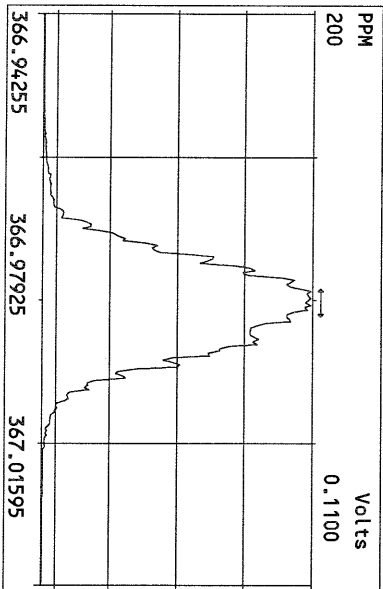
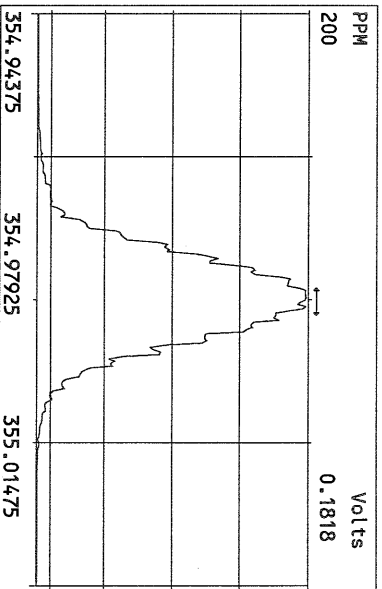
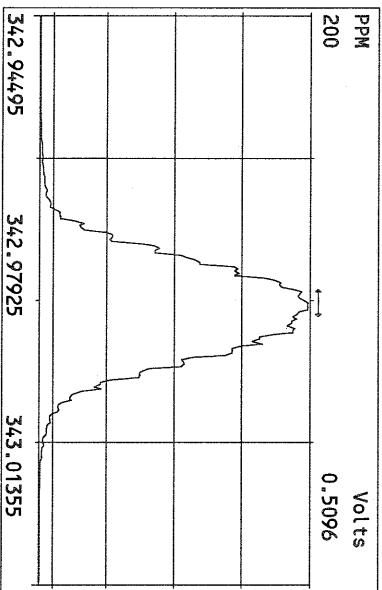
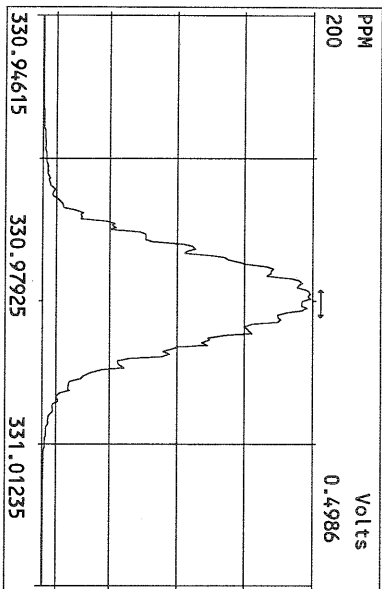


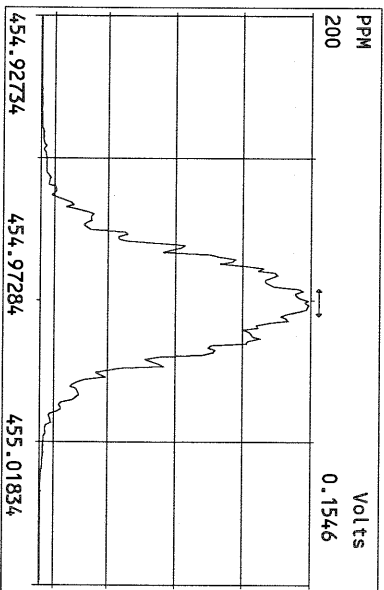
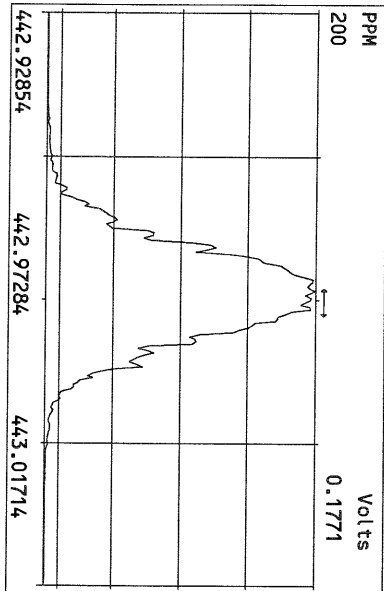
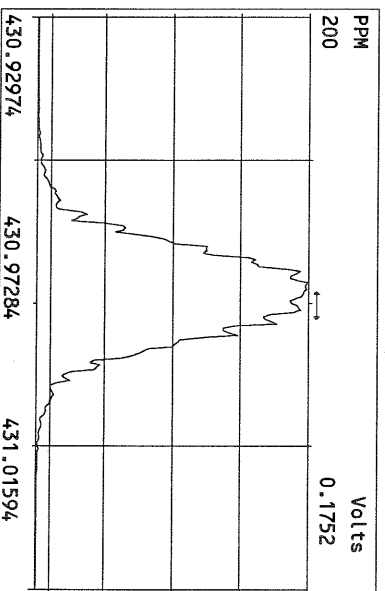
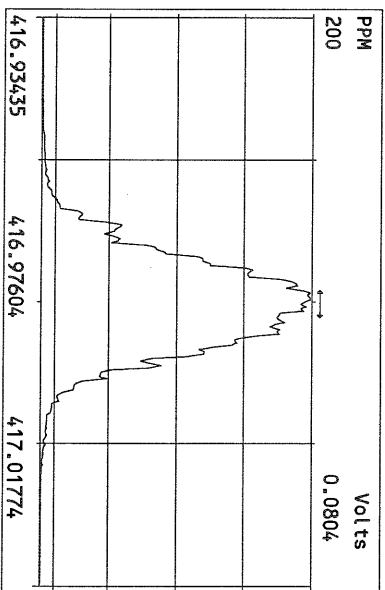
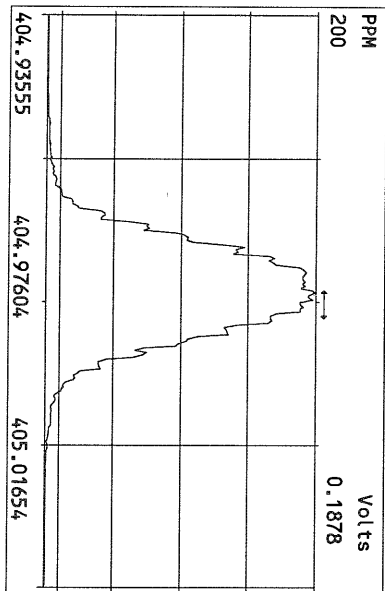
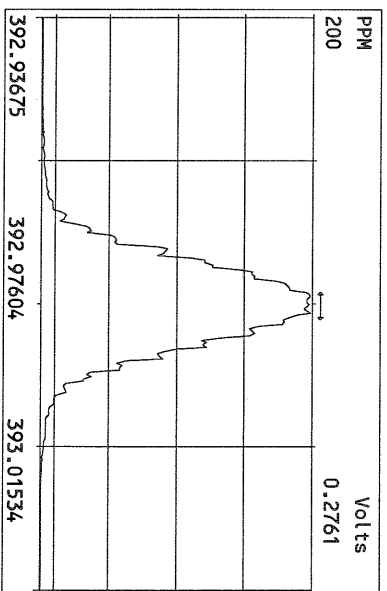
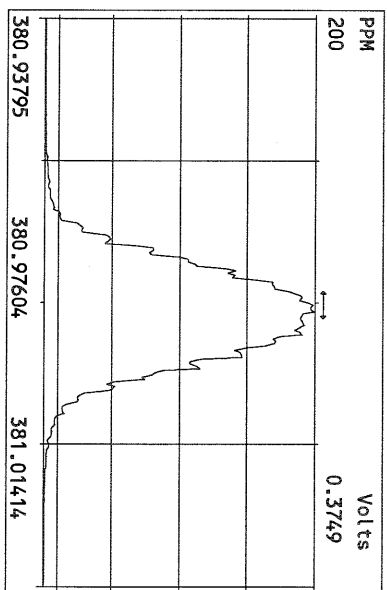
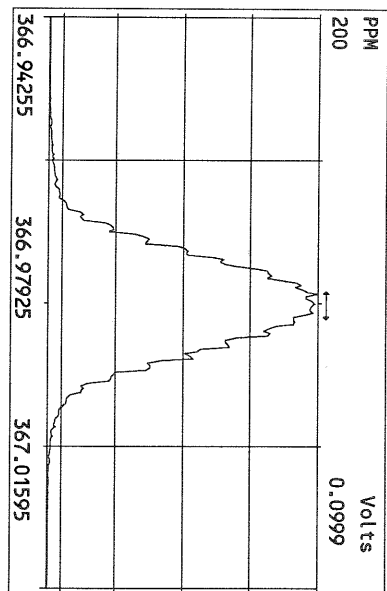
File:12MAY10M #1-348 Acq:12-MAY-2010 17:59:27 GC EI+ Voltage SIR Autospec-Utima
513.6775 S:6 F:5 BSUB(10000,15,-3.0) PKD(5.5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST051210M5 File Text:Frontier Analytical Laboratory

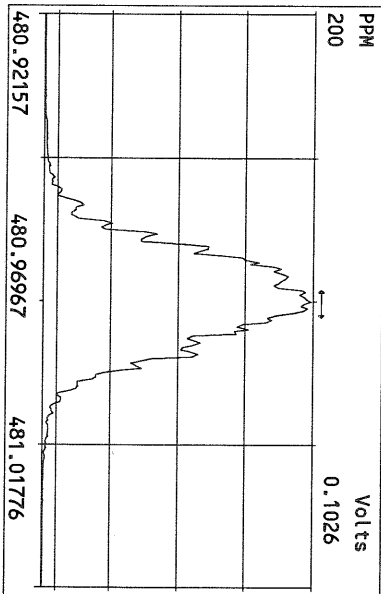
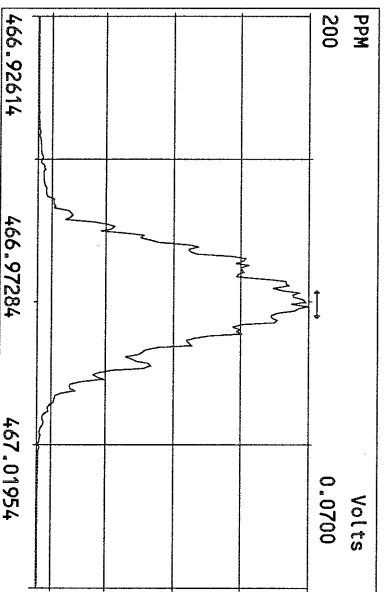
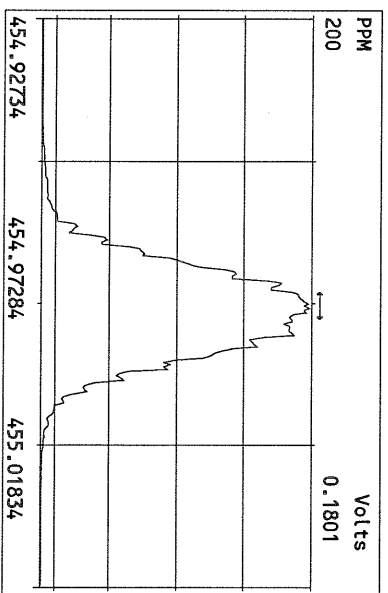
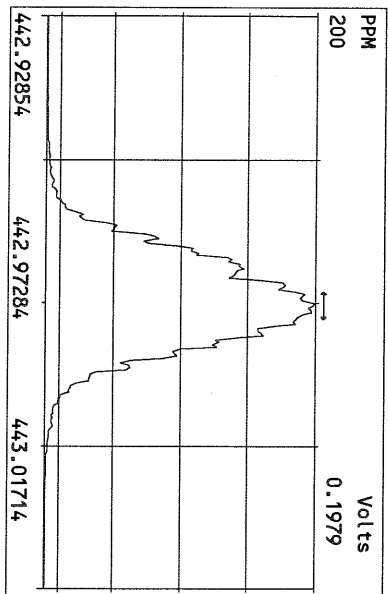
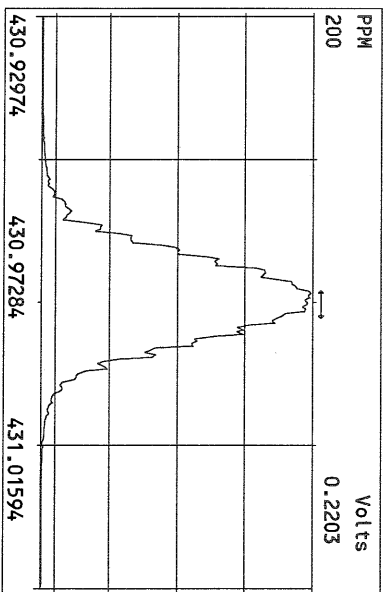
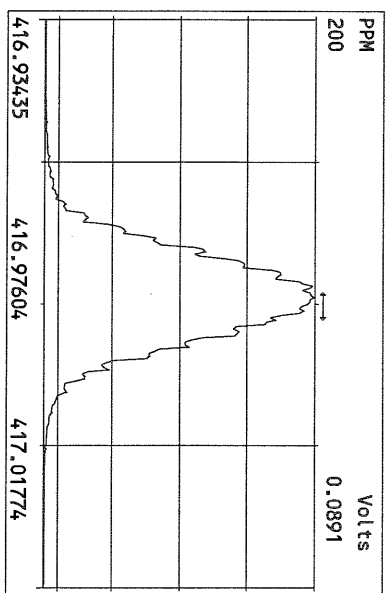
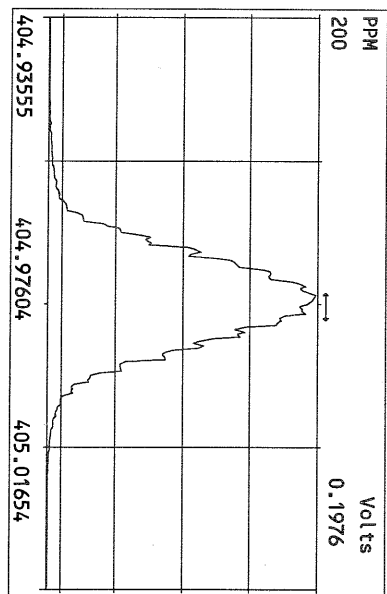


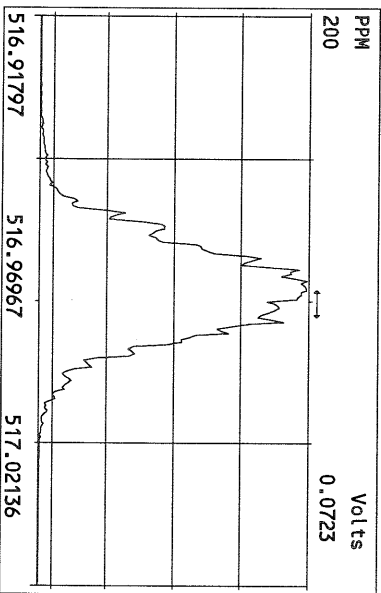
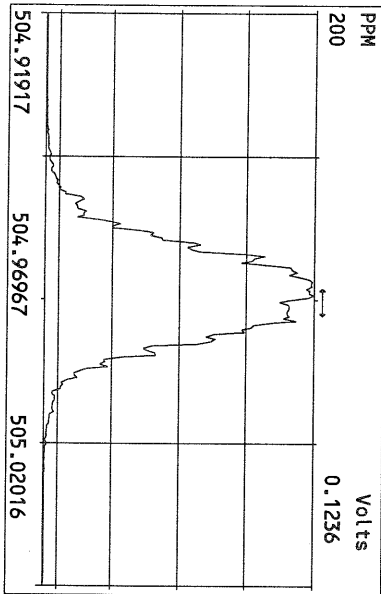
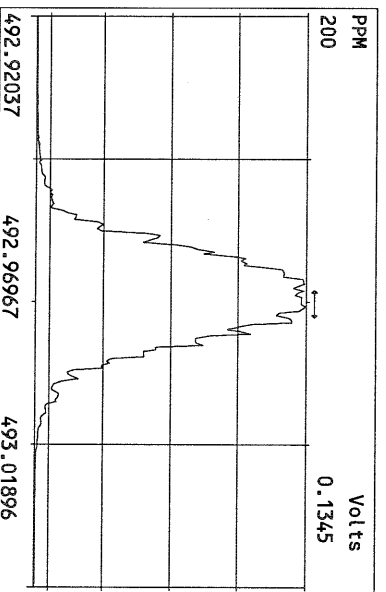
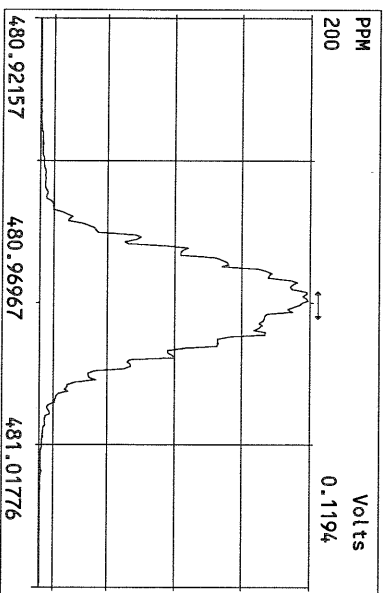
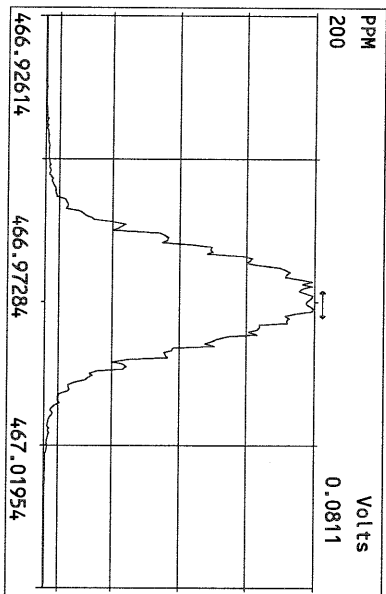
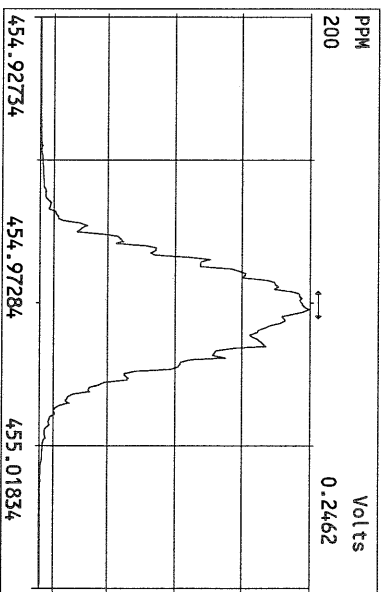
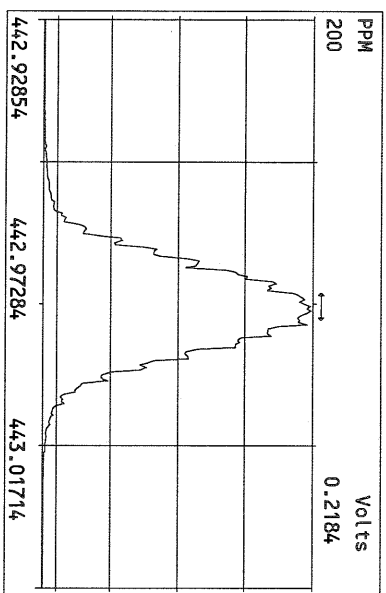
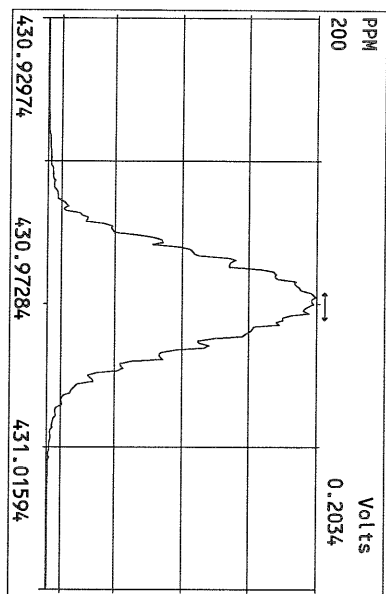


Peak Locate Examination: 12-MAY-2010:20:49 File: 12MAY10M_RES_CHECK
 Experiment: PCDD Function: 2 Reference: PFK









USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 12AUG10M Sam:1

Analysis Date: 12-AUG-10 11:10:55

	M/Z'S FORMING RATIO (1)	ION ABUND. RATIO	QC LIMITS (2)	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.75	0.65-0.89	y	11.0	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.71	1.32-1.78	y	52.4	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.42	1.05-1.43	y	56.7	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.39	1.05-1.43	y	53.4	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.36	1.05-1.43	y	54.4	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.04	0.88-1.20	y	54.9	43.0 - 58.0 ✓
OCDD	M+2/M+4	1.00	0.76-1.02	y	115	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.68	0.65-0.89	y	10.7	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.51	1.32-1.78	y	55.1	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.50	1.32-1.78	y	52.3	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	48.1	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	48.3	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	48.1	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.29	1.05-1.43	y	49.5	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.03	0.88-1.20	y	47.8	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	0.88-1.20	y	48.5	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.93	0.76-1.02	y	101	63.0 - 159 ✓

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

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

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

Analyst: Date: 8/13/10

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 12AUG10M Sam:1

Analysis Date: 12-AUG-10 11:10:55

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	0.85	0.65-0.89	y	95.7	82.0 - 121 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.75	1.32-1.78	y	92.2	62.0 - 160
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.32	1.05-1.43	y	105	85.0 - 117 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.32	1.05-1.43	y	97.7	85.0 - 118 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.05	0.88-1.20	y	94.3	72.0 - 138 ✓
13C-OCDD	M+2/M+4	0.89	0.76-1.02	y	183	96.0 - 415 ✓
13C-2,3,7,8-TCDF	M/M+2	0.87	0.65-0.89	y	91.4	71.0 - 140 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.78	1.32-1.78	y	87.3	76.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.75	1.32-1.78	y	90.1	77.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.55	0.43-0.59	y	126	76.0 - 131 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.56	0.43-0.59	y	124	70.0 - 143 ✓
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.54	0.43-0.59	y	125	73.0 - 137 ✓
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.55	0.43-0.59	y	120	74.0 - 135 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.42	0.37-0.51	y	116	78.0 - 129 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.42	0.37-0.51	y	116	77.0 - 129 ✓
13C-OCDF	M+2/M+4	0.99	0.76-1.02	y	188	96.0 - 415 ✓
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					9.45	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: 8/13/10

FORM 5
PCDD/PCDF RT WINDOW AND ISOMER SPECIFICITY STANDARDS

Lab Name: Frontier Analytical Laboratory Episode No.:
Contract No.: SAS No.:
Instrument ID: FAL3 Initial Calibration Date: 5/12/10
RT Window Data Filename: 12AUG10M Sam:1 Analysis Date: 12-AUG-10 Time: 11:10:55
DB-5 IS Data Filename: 12AUG10M Sam:1 Analysis Date: 12-AUG-10 Time: 11:10:55
DB-225 IS Date 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)	23:04 ✓
1,2,8,9-TCDD (L)	28:22 ✓	1,2,8,9-TCDF (L)	28:35 ✓
1,2,4,7,9-PeCDD (F)	30:15 ✓	1,3,4,6,8-PeCDF (F)	28:25 ✓
1,2,3,8,9-PeCDD (L)	33:48 ✓	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)	35:15 ✓
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)	42:49 ✓	1,2,3,4,6,7,8-HpCDF (F)	42:18 ✓
1,2,3,4,6,7,8-HpCDD (L)	44:11 ✓	1,2,3,4,7,8,9-HpCDF (L)	45:06 ✓

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

=====

ISOMER SPECIFICITY (IS) TEST STANDARD RESULTS

% VALLEY HEIGHT
BETWEEN
COMPARED PEAKS (1)

<25%

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

Analyst: 

Date: 8/13/10

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 12-AUG-10 11:10:55

CS3 or VER Data Filename: 12AUG10M

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	1.000	0.999-1.002 ✓
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.001	0.999-1.002 ✓
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052 ✓
13C-2,3,7,8-TCDD		1.022	0.976-1.043 ✓
13C-2,3,7,8-TCDF		0.994	0.923-1.103 ✓
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567 ✓
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203 ✓
13C-2,3,4,7,8-PeCDF		1.223	0.923-1.303 ✓

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

Analyst: Date: 8/13/10

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 12-AUG-10 11:10:55

CS3 or VER Data Filename: 12AUG10M

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	1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.000	0.997-1.005 ✓
2,3,4,6,7,8-HxCDF	13C-2,3,4,6,7,8-HxCDF	1.001	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	1.001	0.999-1.001 ✓
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000 ✓
13C-1,2,3,6,7,8-HxCDD		0.988	0.981-1.003 ✓
13C-1,2,3,4,7,8-HxCDF		0.948	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		0.977	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		1.268	1.032-1.311 ✓
13C-OCDF		1.278	1.000-1.311 ✓

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

Analyst: Date: 8/13/10

Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 105 WHO 1998 Tox: 131 WHO 2005 Tox: 119

Name	Resp	RA	RT	RRF	Conc	Qual	Fac	Noise-1	Noise-2	DL	DL
2,3,7,8-TCDD	1.69e+06	0.75 y	27:25	1.04	11.0		2.50	-	-	*	
1,2,3,7,8-PeCDD	6.84e+06	1.71 y	33:14	1.05	52.4		2.50	-	-	*	
1,2,3,4,7,8-HxCDD	6.65e+06	1.42 y	38:36	1.30	56.7		2.50	-	-	*	
1,2,3,6,7,8-HxCDD	6.00e+06	1.39 y	38:46	1.28	53.4		2.50	-	-	*	
1,2,3,7,8,9-HxCDD	6.05e+06	1.36 y	39:12	1.25	54.4		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDD	5.85e+06	1.04 y	44:11	1.35	54.9		2.50	-	-	*	
OCDD	7.54e+06	1.00 y	49:45	1.25	115		2.50	-	-	*	
2,3,7,8-TCDF	4.28e+06	0.68 y	26:40	1.62	10.7		2.50	-	-	*	
1,2,3,7,8-PeCDF	1.11e+07	1.51 y	31:30	0.92	55.1		2.50	-	-	*	
2,3,4,7,8-PeCDF	1.04e+07	1.50 y	32:50	0.94	52.3		2.50	-	-	*	
1,2,3,4,7,8-HxCDF	8.87e+06	1.27 y	37:12	0.93	48.1		2.50	-	-	*	
1,2,3,6,7,8-HxCDF	9.85e+06	1.28 y	37:24	0.84	48.3		2.50	-	-	*	
2,3,4,6,7,8-HxCDF	8.85e+06	1.26 y	38:20	0.90	48.1		2.50	-	-	*	
1,2,3,7,8,9-HxCDF	7.85e+06	1.29 y	39:47	0.98	49.5		2.50	-	-	*	
1,2,3,4,6,7,8-HpCDF	7.61e+06	1.03 y	42:18	1.38	47.8		2.50	-	-	*	
1,2,3,4,7,8,9-HpCDF	6.74e+06	1.07 y	45:06	1.62	48.5		2.50	-	-	*	
OCDF	7.57e+06	0.93 y	50:07	0.74	101		2.50	-	-	*	
											Rec
13C-2,3,7,8-TCDD	1.48e+07	0.85 y	27:24	0.93	95.7						95.7
13C-1,2,3,7,8-PeCDD	1.25e+07	1.75 y	33:13	0.81	92.2						92.2
13C-1,2,3,4,7,8-HxCDD	9.03e+06	1.32 y	38:35	0.95	105						105
13C-1,2,3,6,7,8-HxCDD	8.81e+06	1.32 y	38:44	1.00	97.7						97.7
13C-1,2,3,4,6,7,8-HpCDD	7.86e+06	1.05 y	44:11	0.92	94.3						94.3
13C-OCDD	1.05e+07	0.89 y	49:43	0.63	183						91.6
13C-2,3,7,8-TCDF	2.47e+07	0.87 y	26:39	0.87	91.4						91.4
13C-1,2,3,7,8-PeCDF	2.19e+07	1.78 y	31:29	0.81	87.3						87.3
13C-2,3,4,7,8-PeCDF	2.11e+07	1.75 y	32:48	0.75	90.1						90.1
13C-1,2,3,4,7,8-HxCDF	1.98e+07	0.55 y	37:11	1.74	126						126
13C-1,2,3,6,7,8-HxCDF	2.44e+07	0.56 y	37:23	2.17	124						124
13C-2,3,4,6,7,8-HxCDF	2.06e+07	0.54 y	38:19	1.82	125						125
13C-1,2,3,7,8,9-HxCDF	1.61e+07	0.55 y	39:46	1.49	120						120
13C-1,2,3,4,6,7,8-HpCDF	1.15e+07	0.42 y	42:16	1.10	116						116
13C-1,2,3,4,7,8,9-HpCDF	8.55e+06	0.42 y	45:06	0.81	116						116
13C-OCDF	2.03e+07	0.99 y	50:06	1.19	188						94.2
37Cl-2,3,7,8-TCDD	1.47e+06		27:25	0.93	9.45						94.5
13C-1,2,3,4-TCDD	1.67e+07	0.88 y	26:49	-	49.4						
13C-1,2,3,4-TCDF	3.12e+07	0.88 y	25:33	-	58.4						
13C-1,2,3,7,8,9-HxCDD	9.06e+06	1.33 y	39:12	-	42.0						
							Fac	Noise-1	Noise-2	DL	#Hom
Total Tetra-Dioxins	9.45e+06		22:56	1.04	61.5		2.50	-	-	*	28
Total Penta-Dioxins	1.51e+07		30:15	1.05	116		2.50	-	-	*	18
Total Hexa-Dioxins	2.15e+07		36:08	1.27	189		2.50	-	-	*	17
Total Hepta-Dioxins	1.29e+07		42:17	1.35	121		2.50	-	-	*	34
Total Tetra-Furans	1.99e+07		23:04	1.62	49.6		2.50	-	-	*	23
1st Fn. Tot Penta-Furans	1.04e+07		28:25	0.93	51.8		2.50	-	-	*	PeCDF 1
Total Penta-Furans	3.09e+07		30:14	0.93	154		2.50	-	-	*	206 13
Total Hexa-Furans	4.18e+07		35:15	0.90	229		2.50	-	-	*	24
Total Hepta-Furans	1.46e+07		41:11	1.48	97.9		2.50	-	-	*	20

Analyst:  Date: 8/13/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:12AUG10M

Instrument: FAL3

GC: DB5

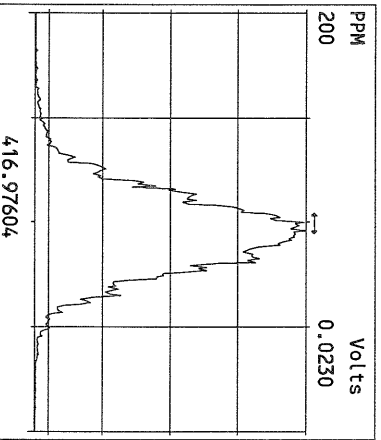
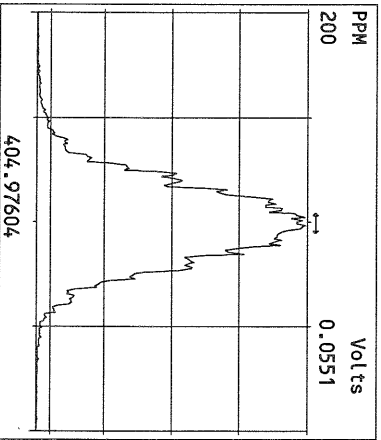
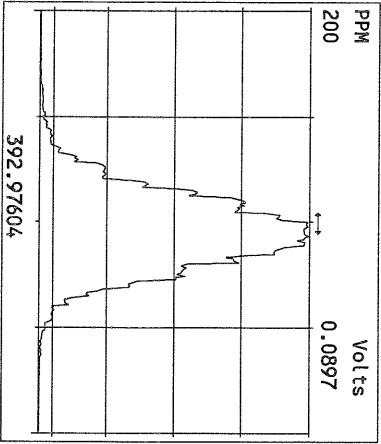
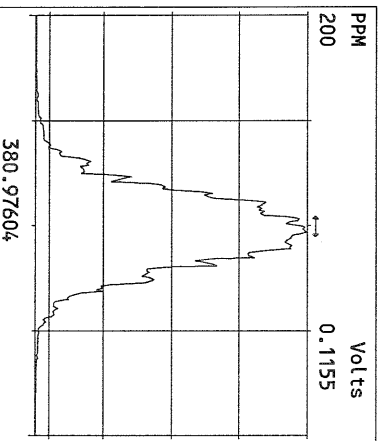
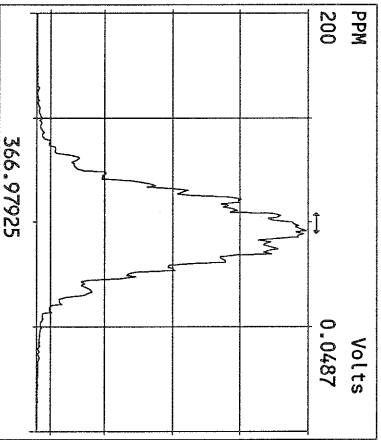
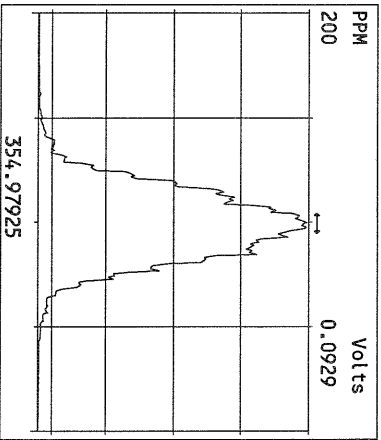
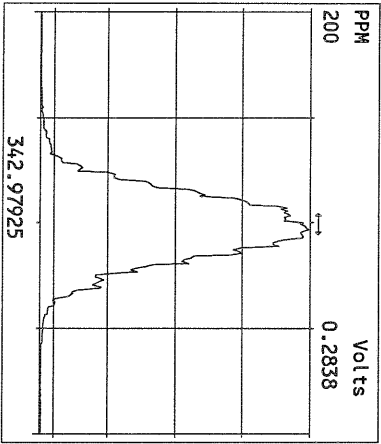
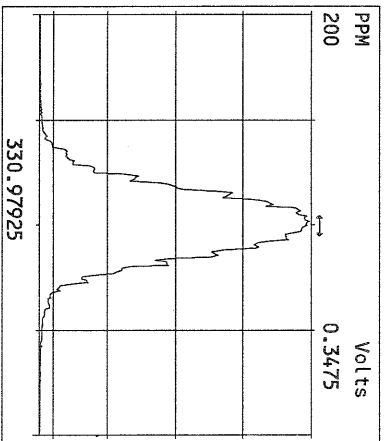
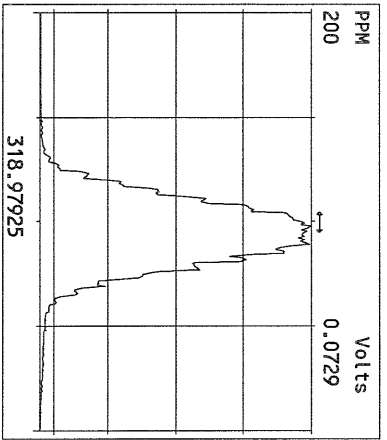
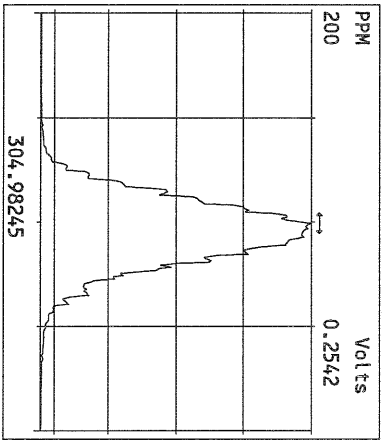
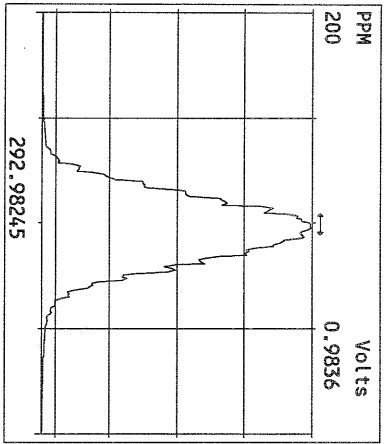
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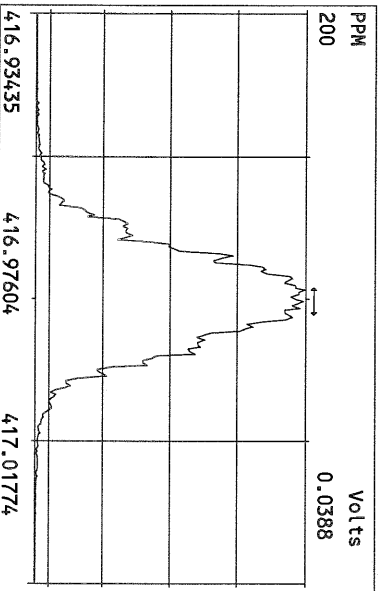
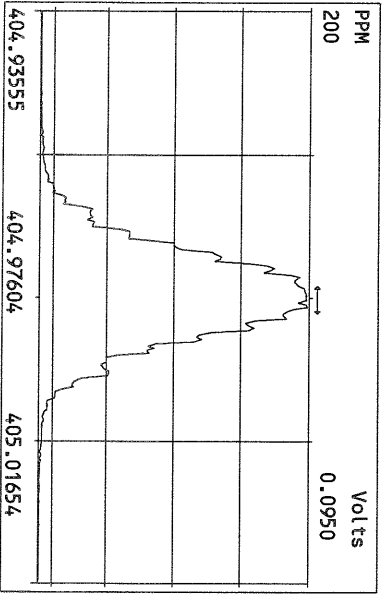
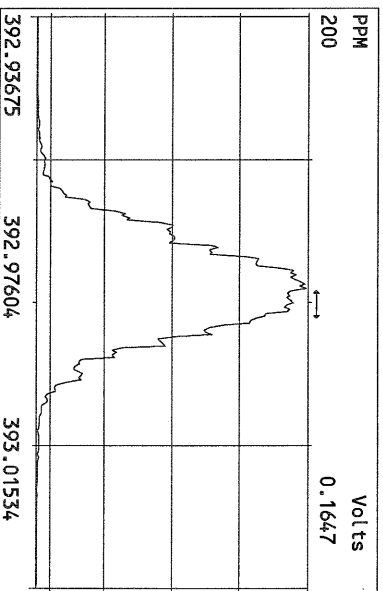
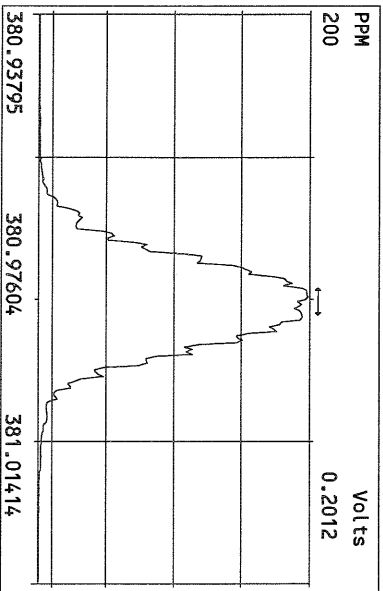
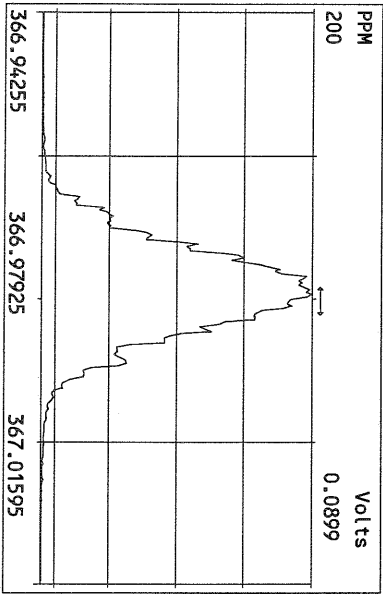
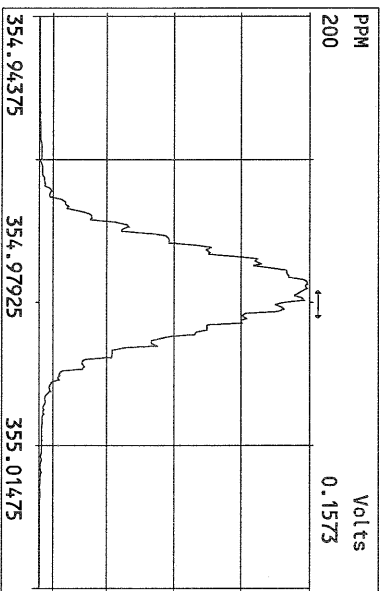
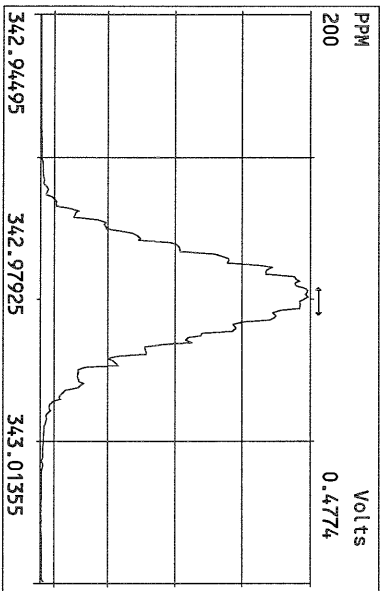
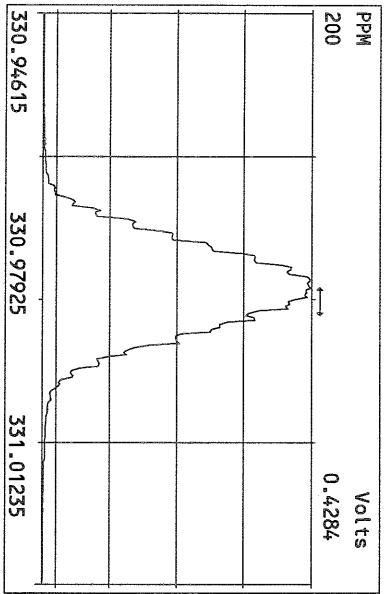
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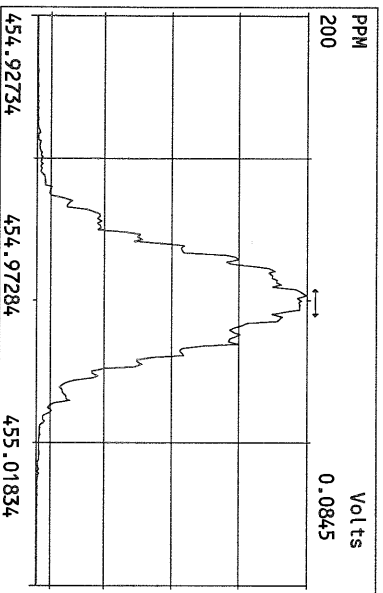
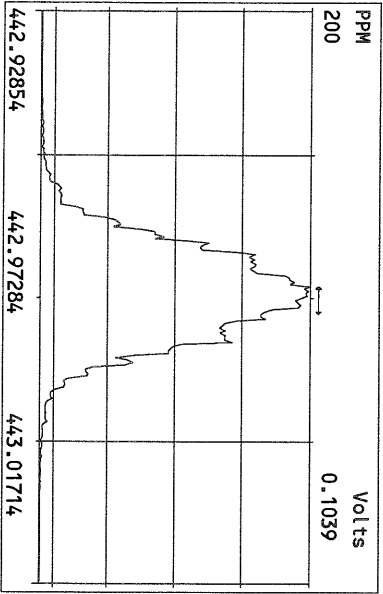
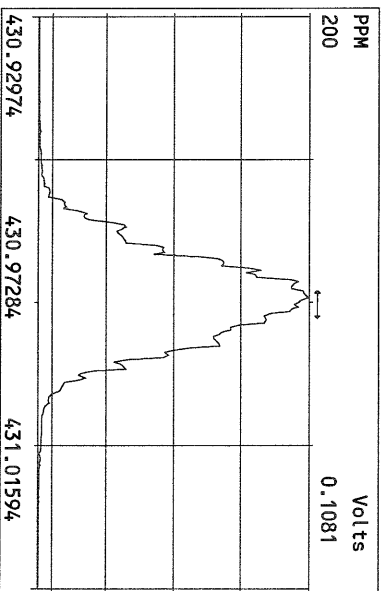
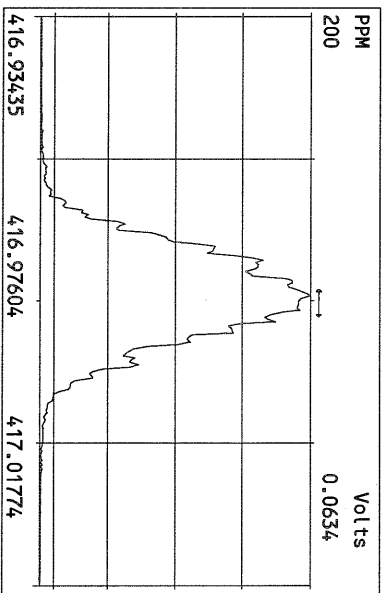
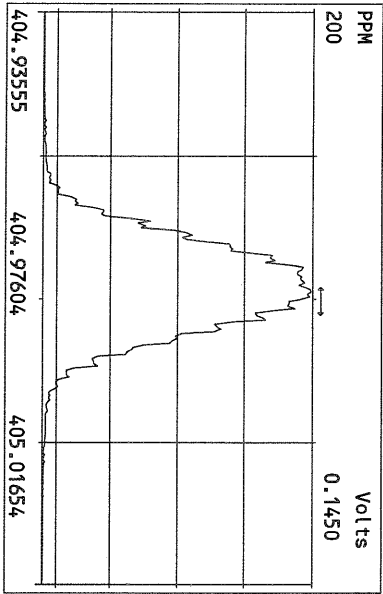
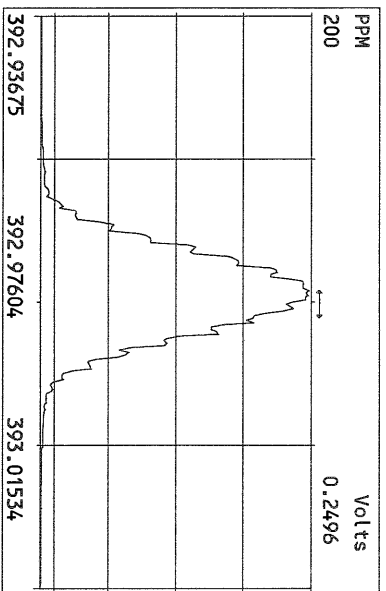
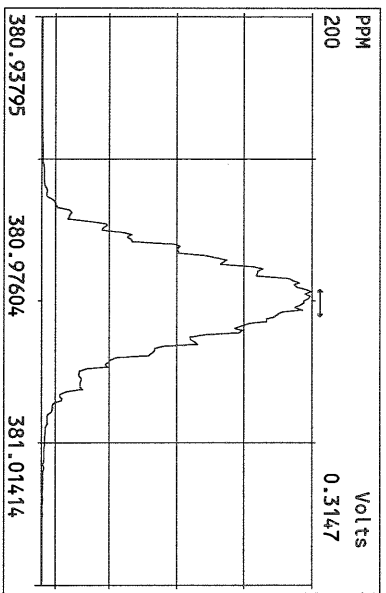
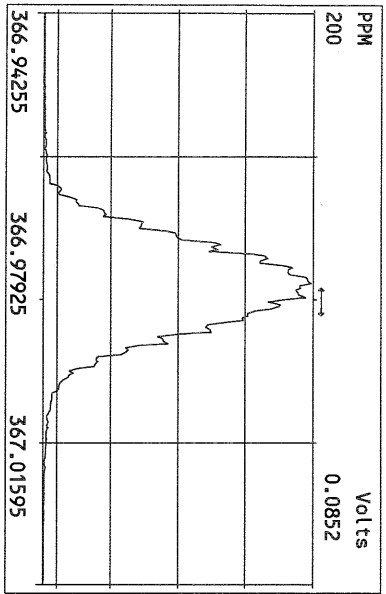
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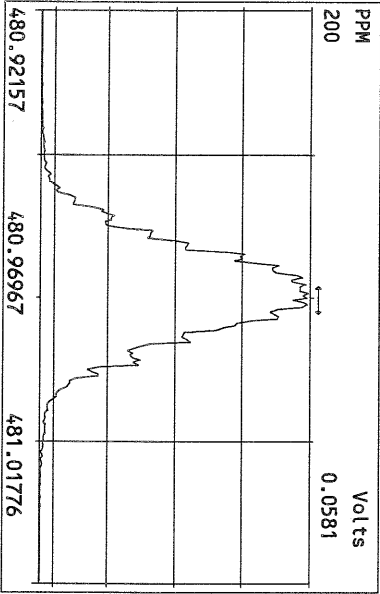
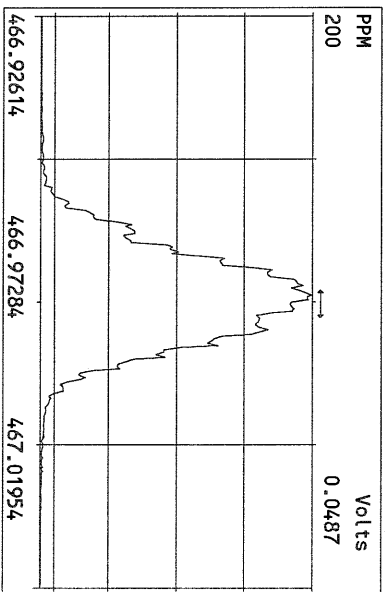
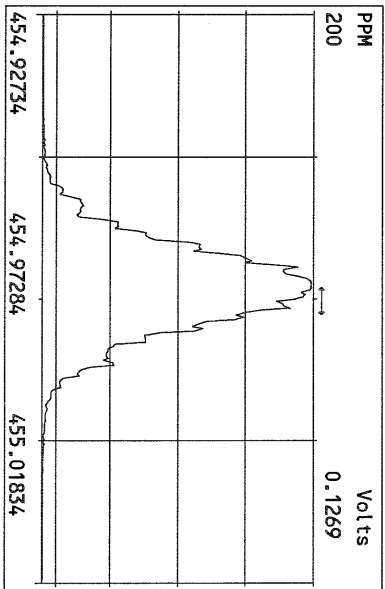
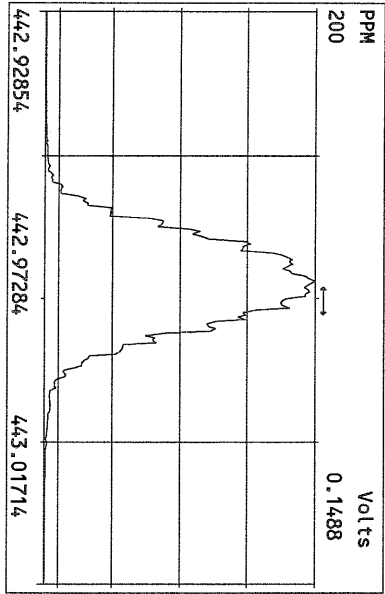
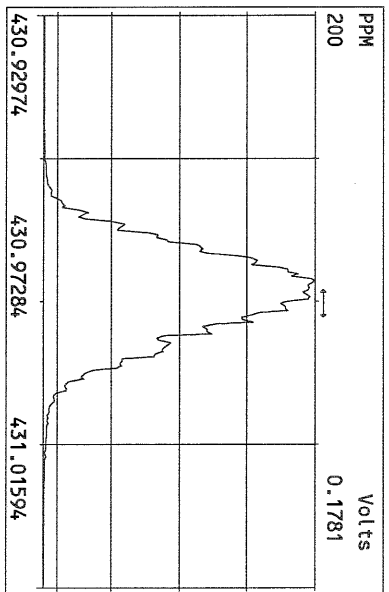
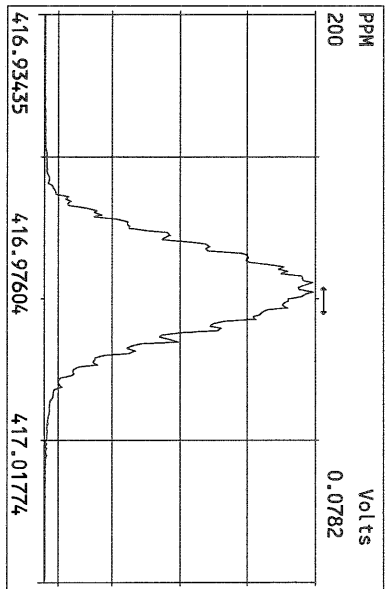
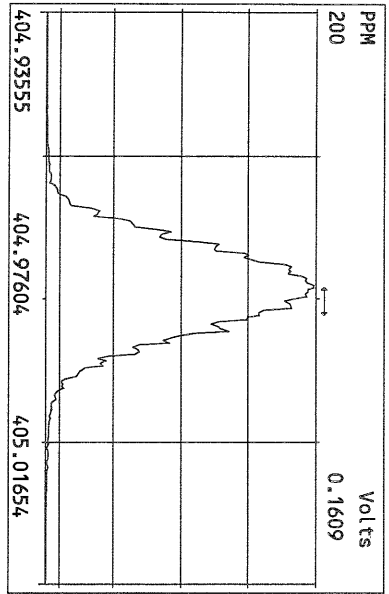
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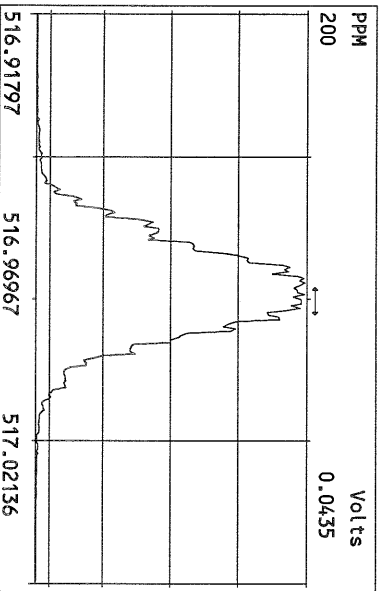
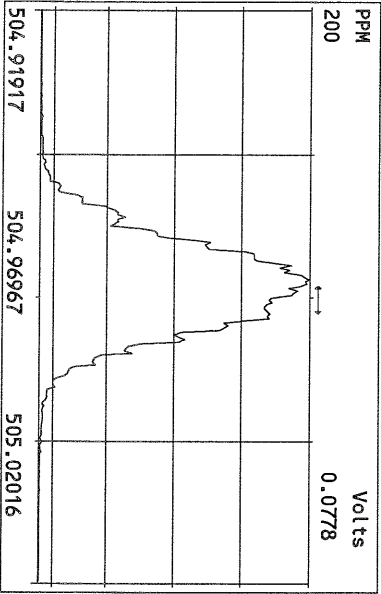
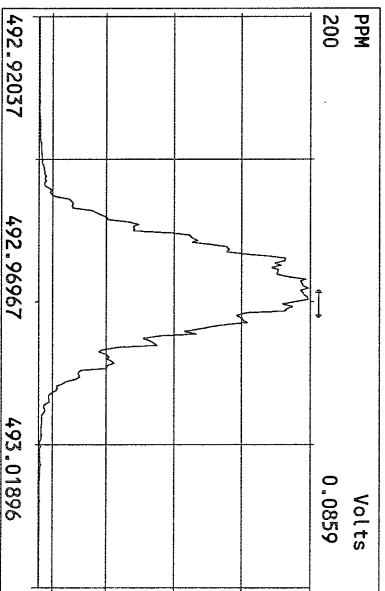
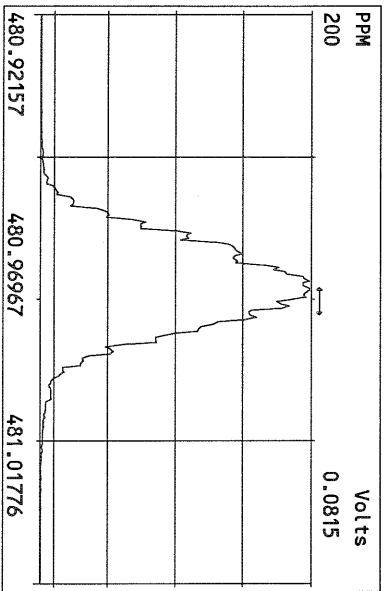
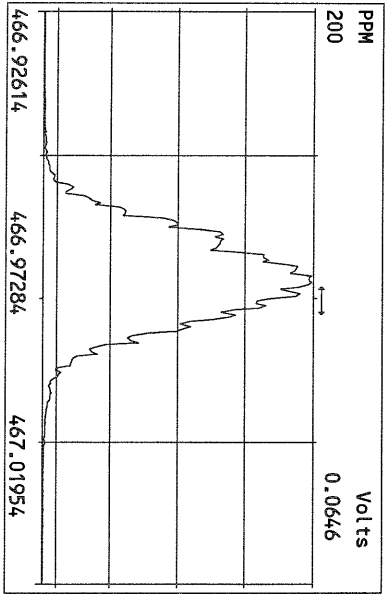
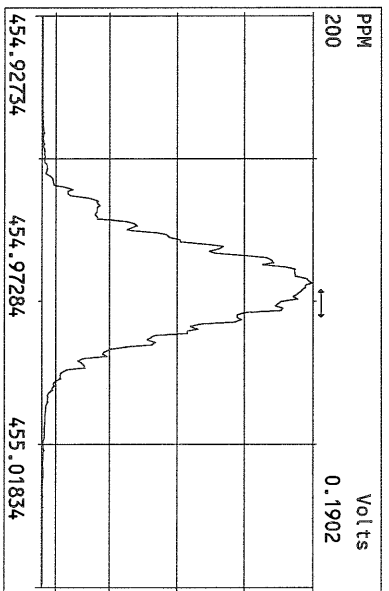
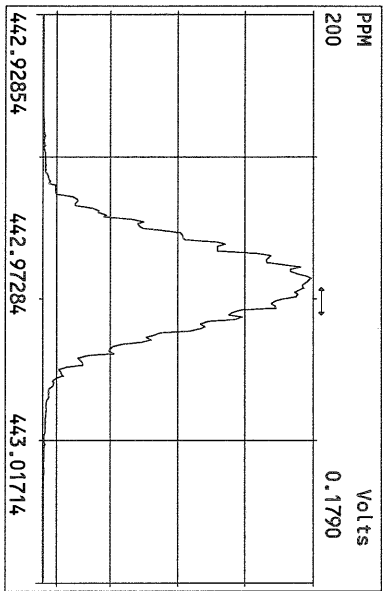
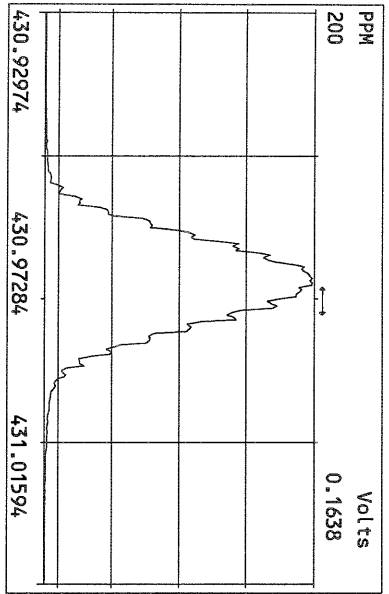
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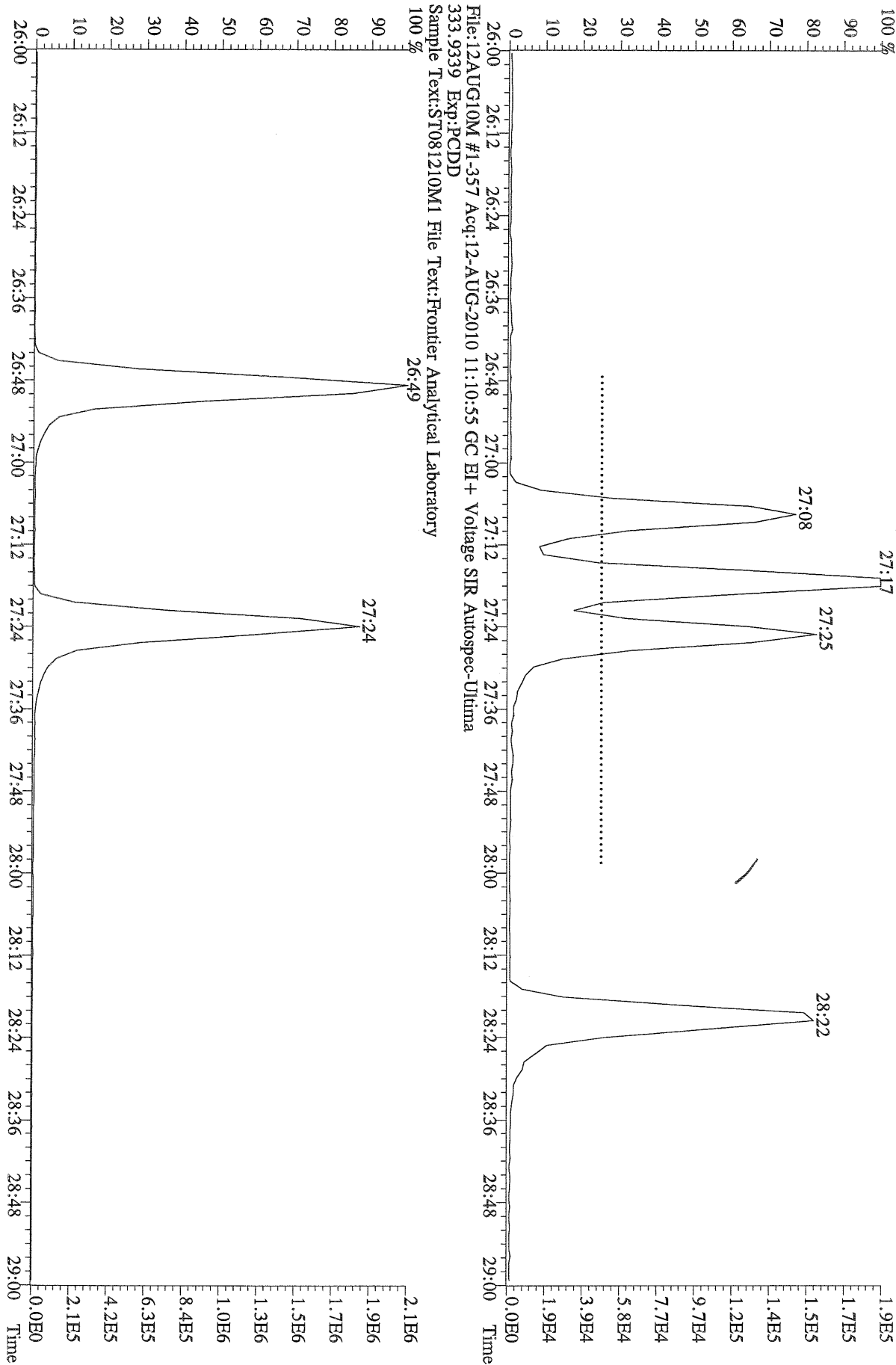




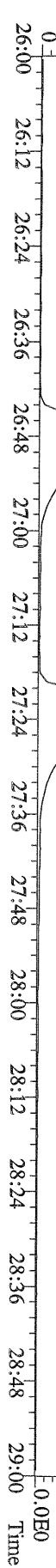




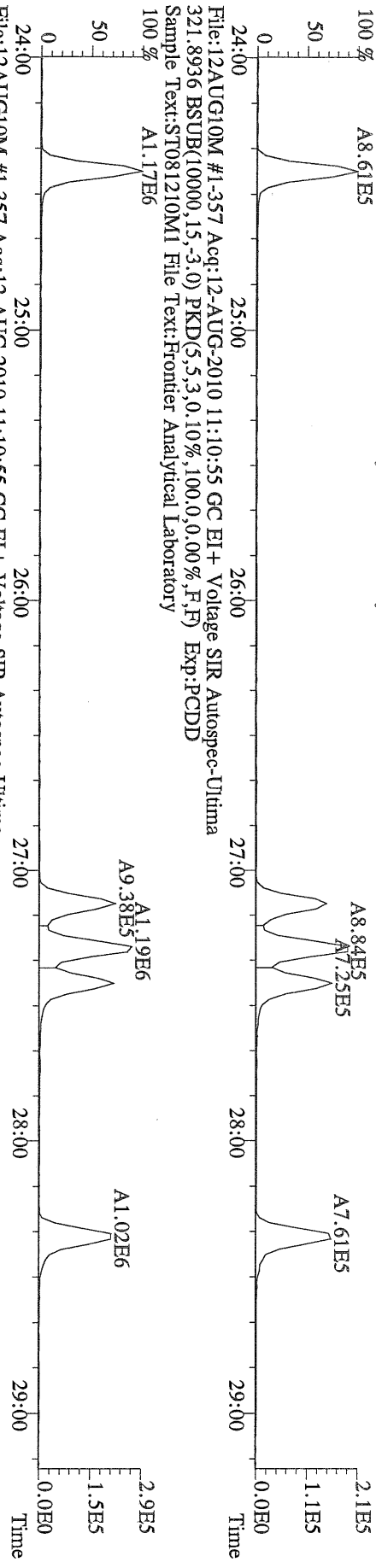
File:12AUG10M #1-357 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
319.8965 Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



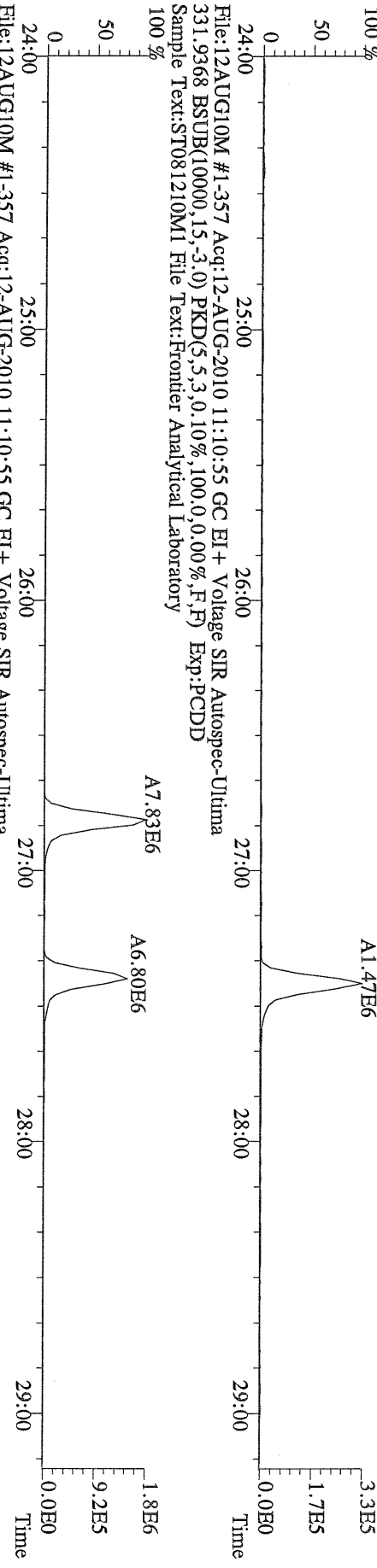
File:12AUG10M #1-357 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
333.9339 Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



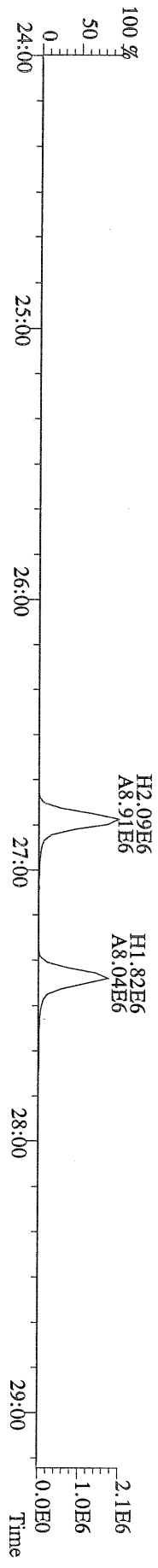
File:12AUG10M #1-357 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
319.8965 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory
100 %



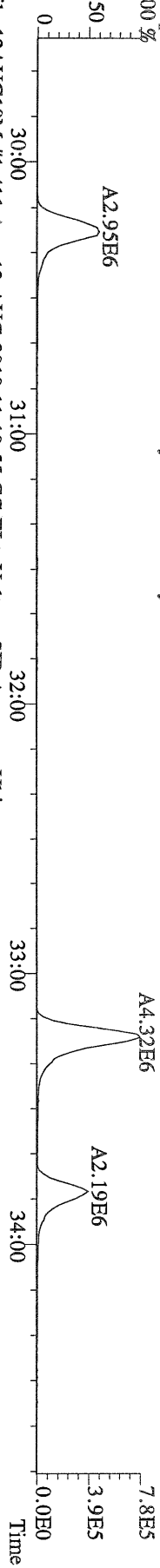
File:12AUG10M #1-357 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
327.8847 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory
100 %



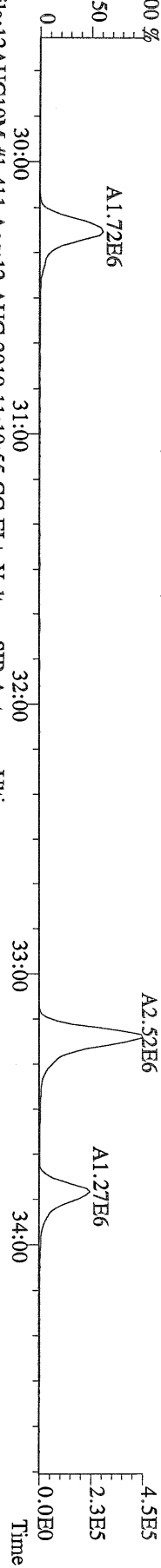
File:12AUG10M #1-357 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
333.9339 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory
100 %



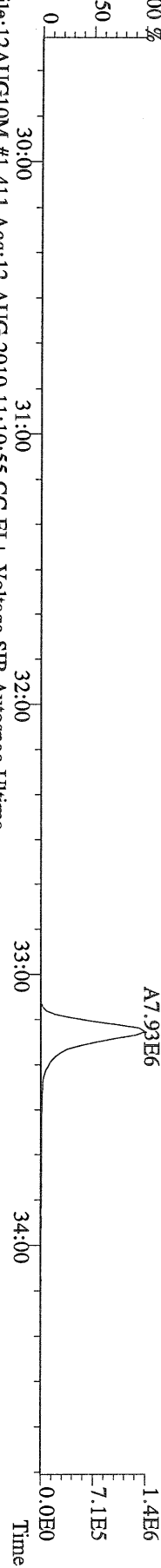
File:12AUG10M #1-411 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
355.8546 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



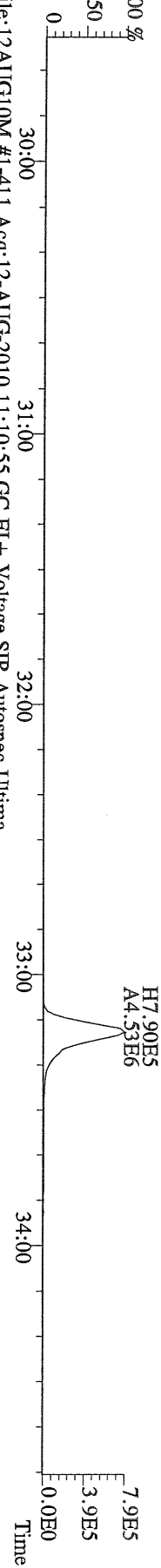
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357.8517 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



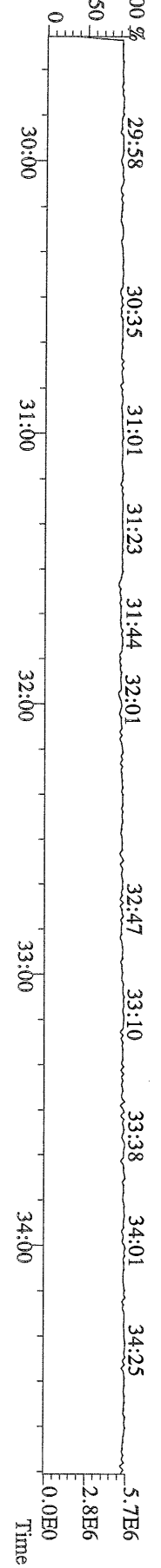
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367.8949 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



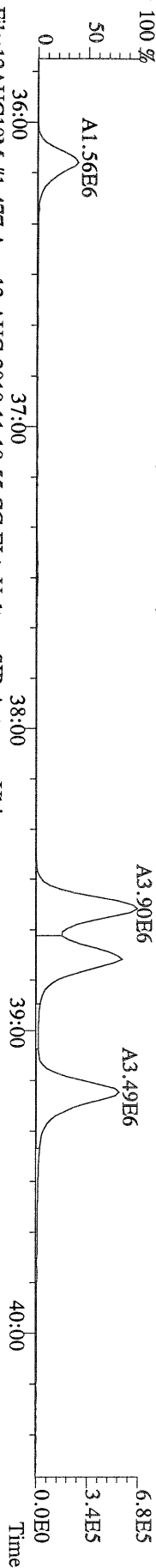
File:12AUG10M #1-411 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
369.8919 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



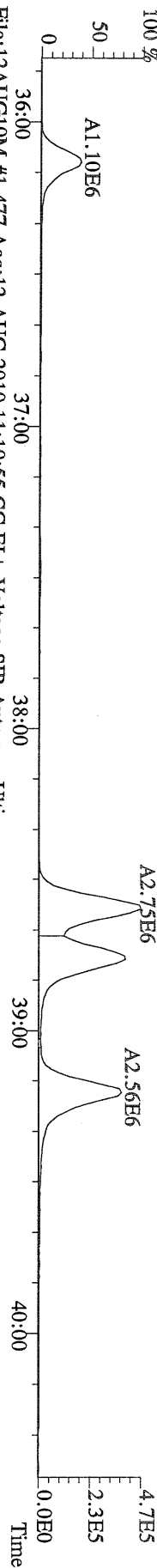
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366.9792 F:2 Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



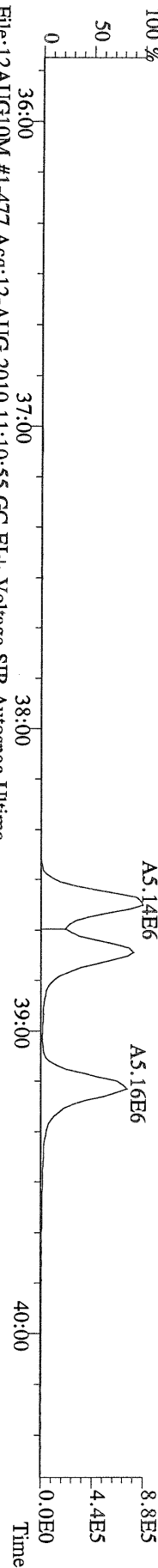
File:12AUG10M #1-477 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
389.8156 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



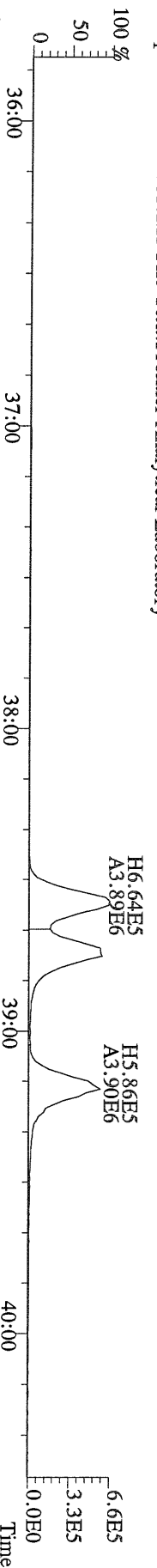
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391.8127 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



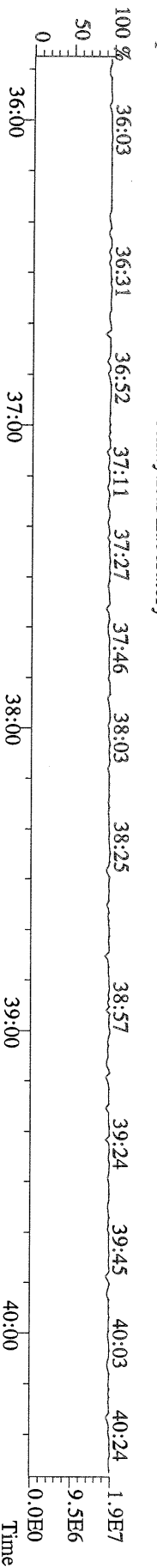
File:12AUG10M #1-477 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
401.8559 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



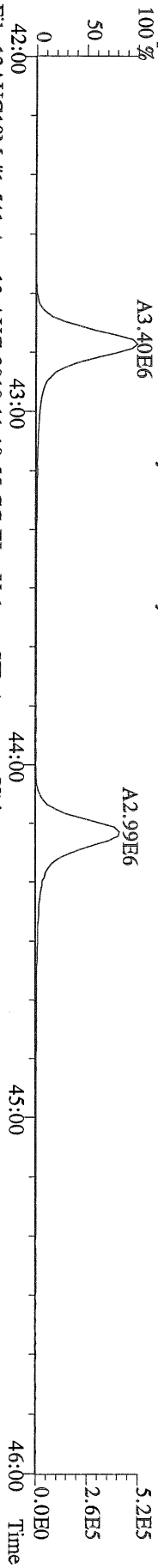
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403.8530 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



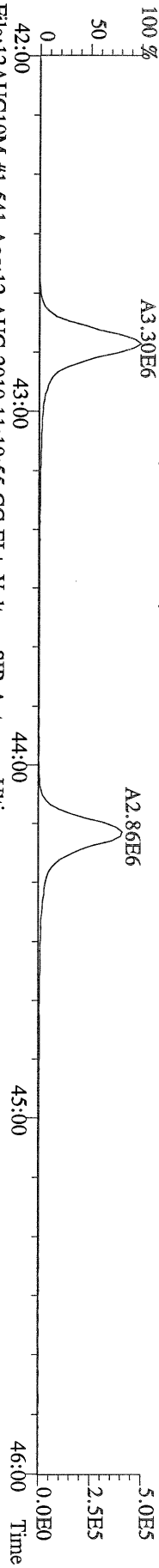
File:12AUG10M #1-477 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
LOCK MASS CHECK F:3 Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



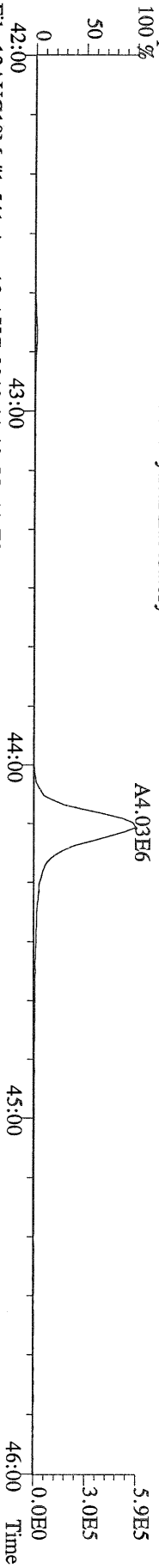
File:12AUG10M #1-541 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



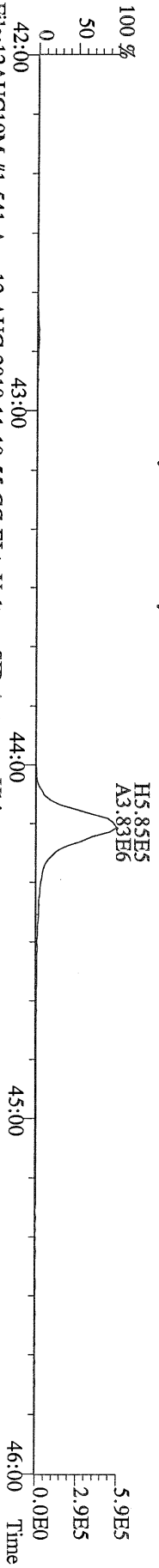
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425.7737 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



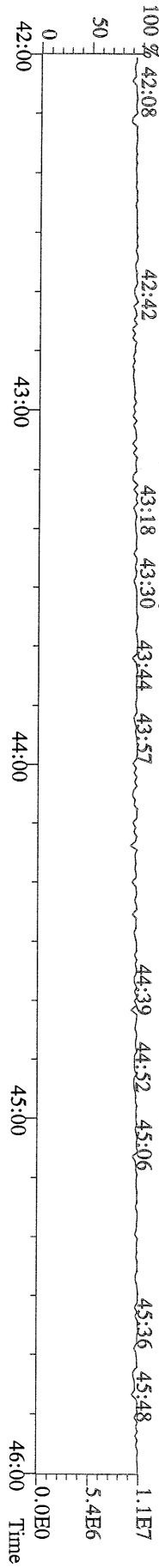
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435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



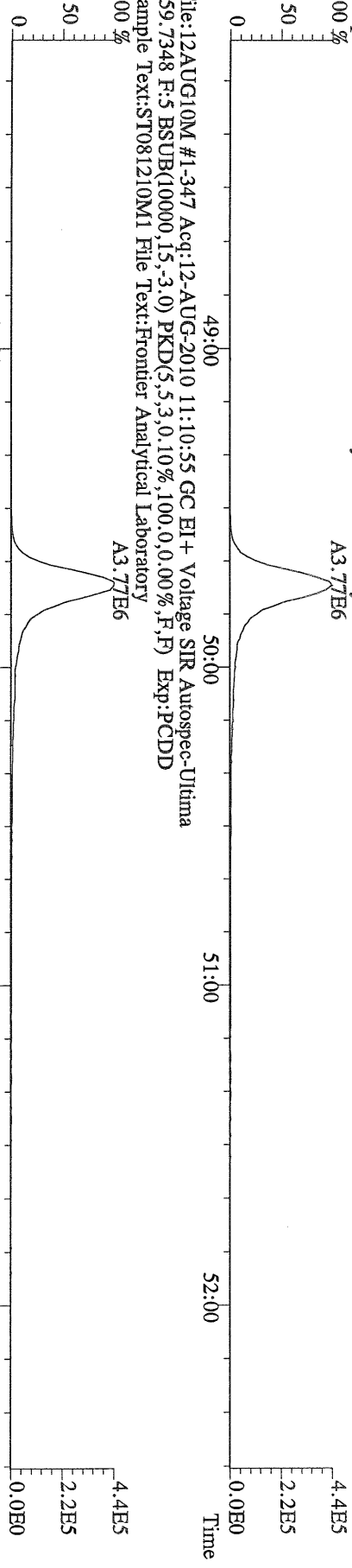
File:12AUG10M #1-541 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
437.8140 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



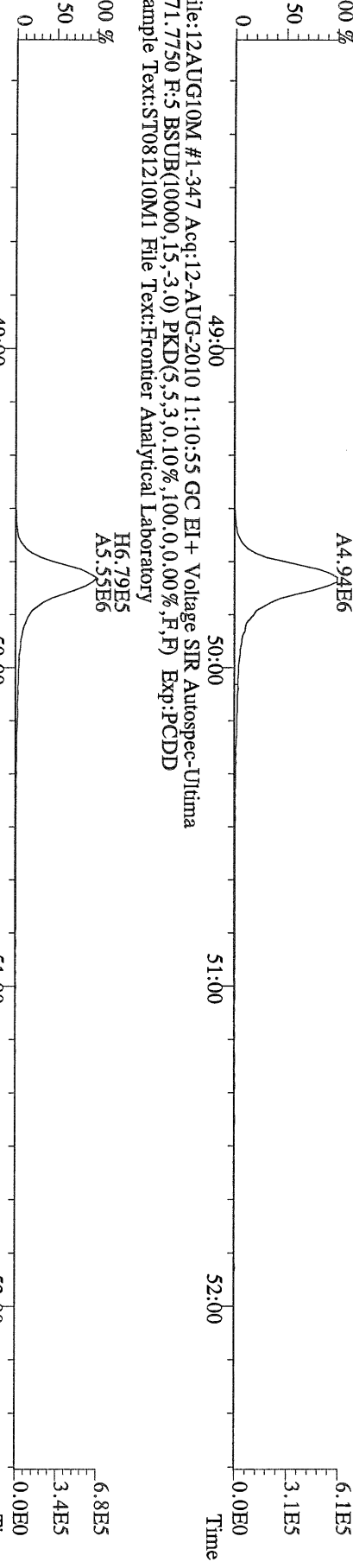
File:12AUG10M #1-541 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
430.9728 F:4 Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



File:12AUG10M #1-347 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



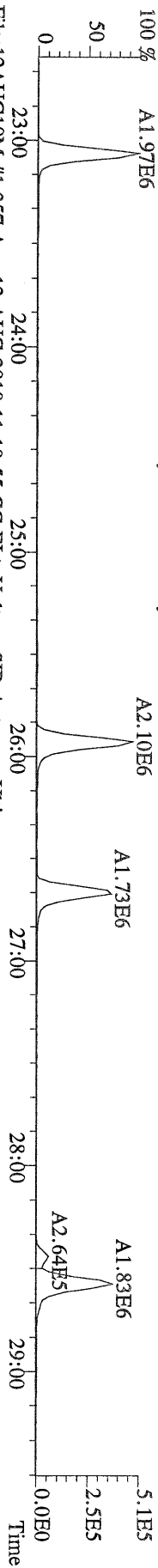
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469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



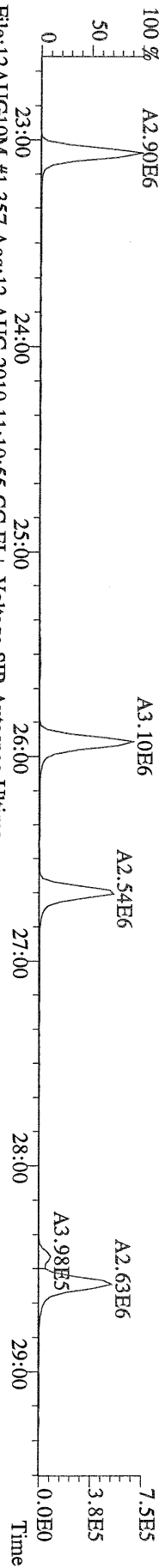
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471.7750 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



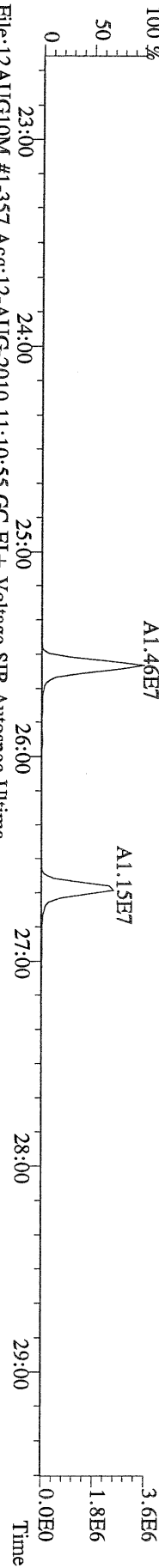
File:12AUG10M #1-357 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



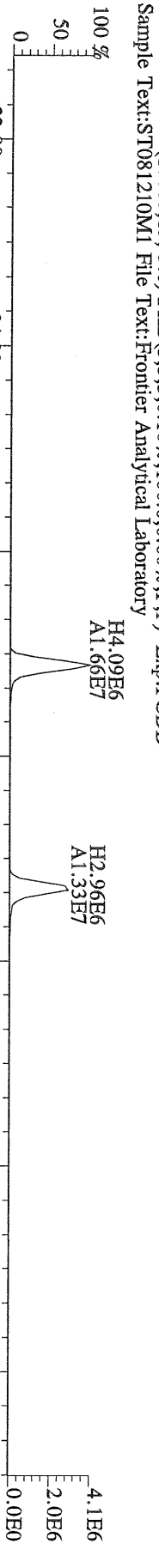
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305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



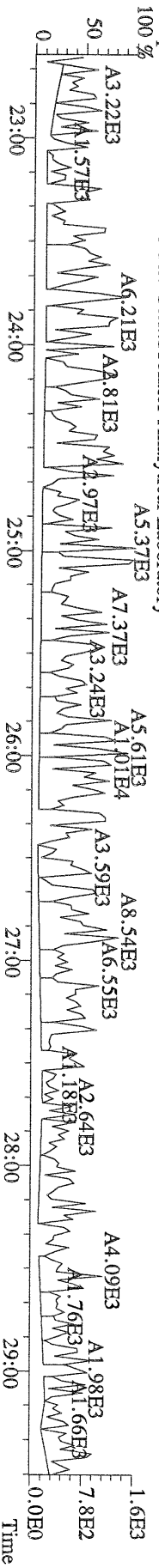
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315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



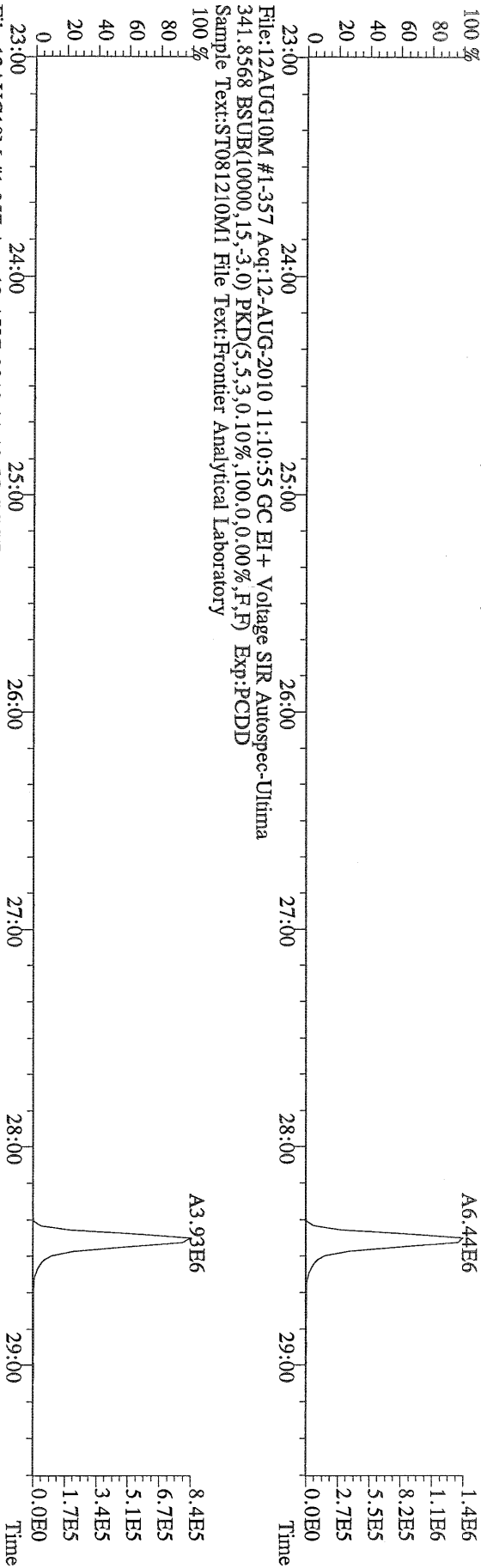
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317.9389 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



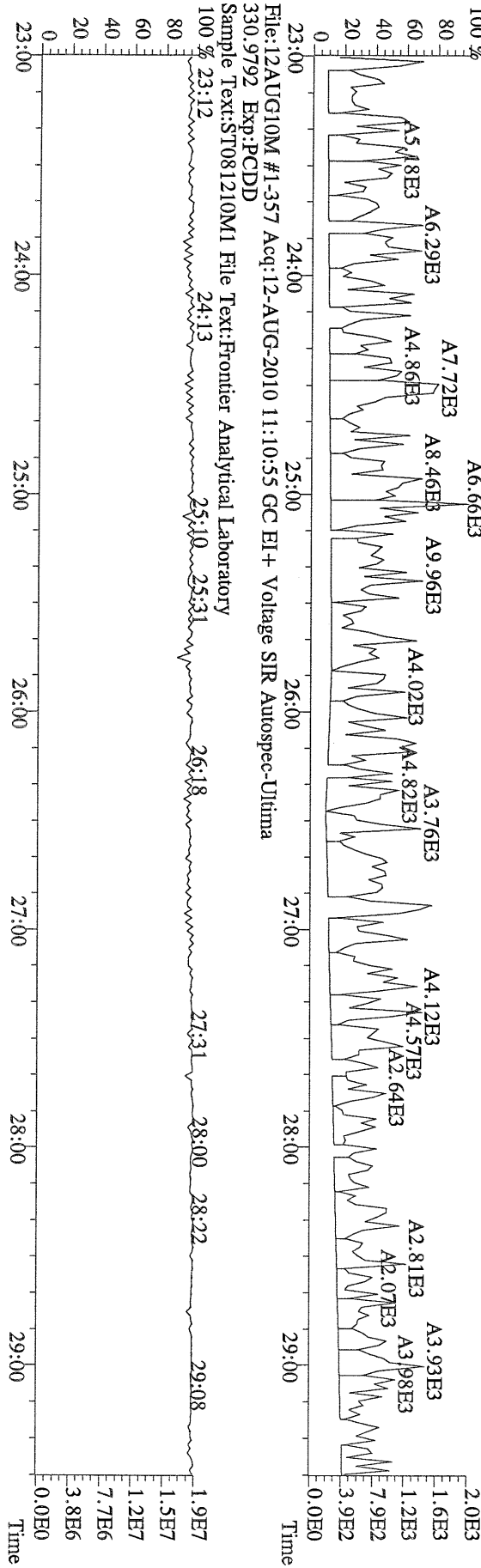
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375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



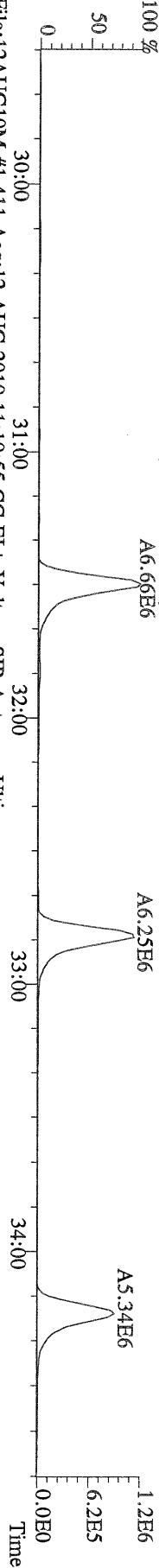
File:12AUG10M #1-357 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



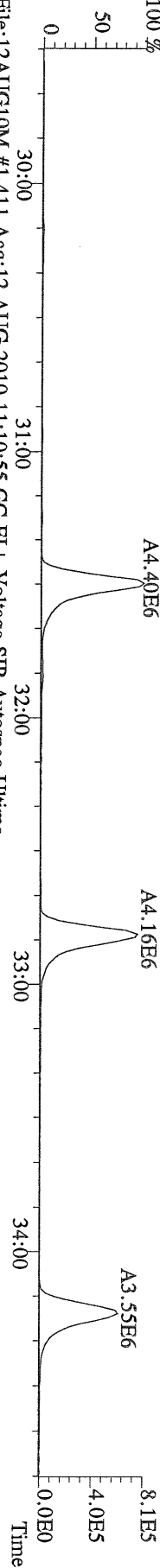
File:12AUG10M #1-357 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



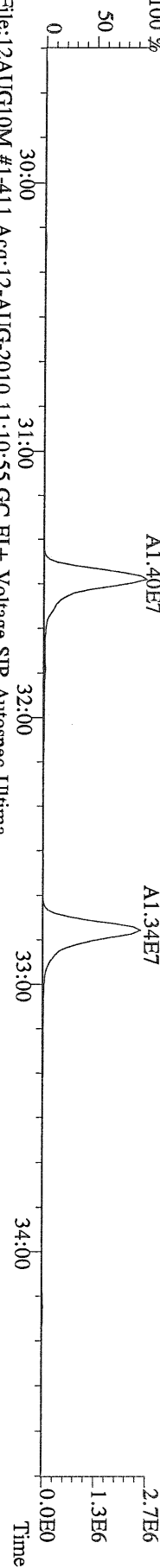
File:12AUG10M #1-411 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



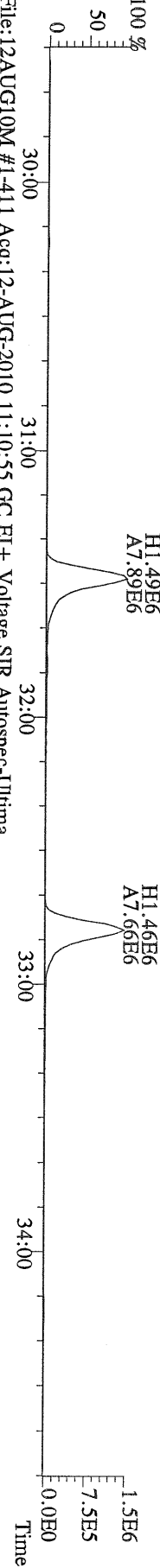
File:12AUG10M #1-411 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



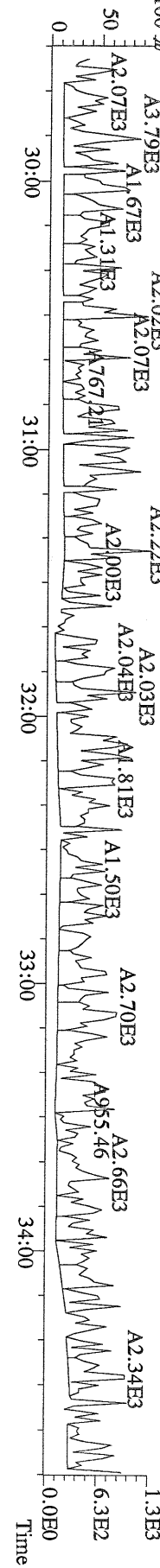
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 351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



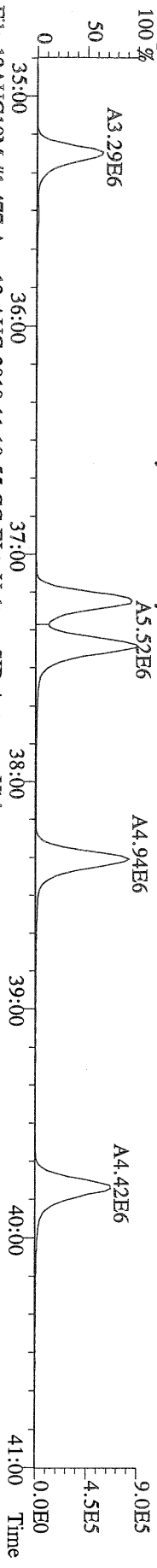
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 353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



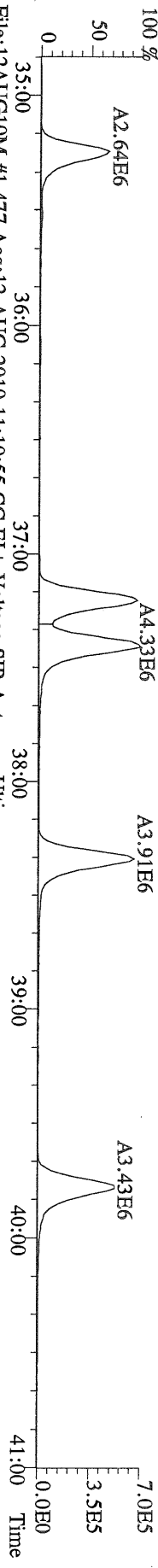
File:12AUG10M #1-411 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



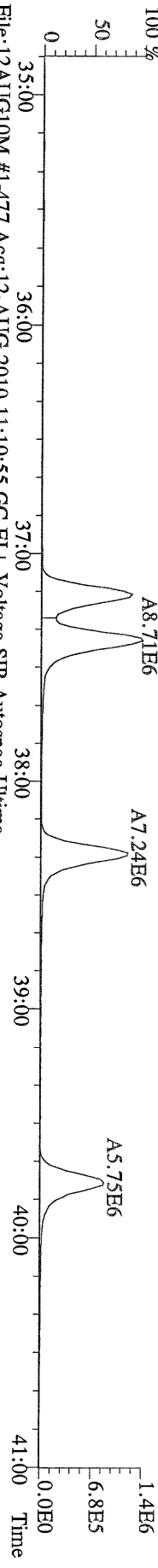
File:12AUG10M #1-477 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



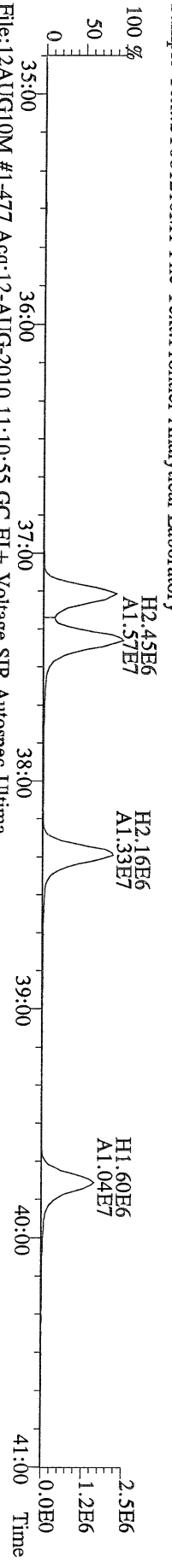
File:12AUG10M #1-477 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
 375.8178 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



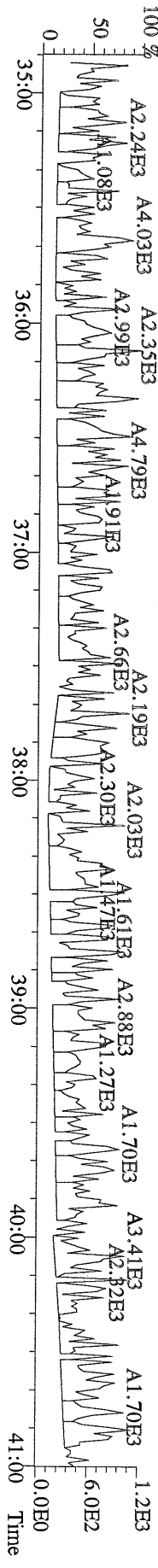
File:12AUG10M #1-477 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



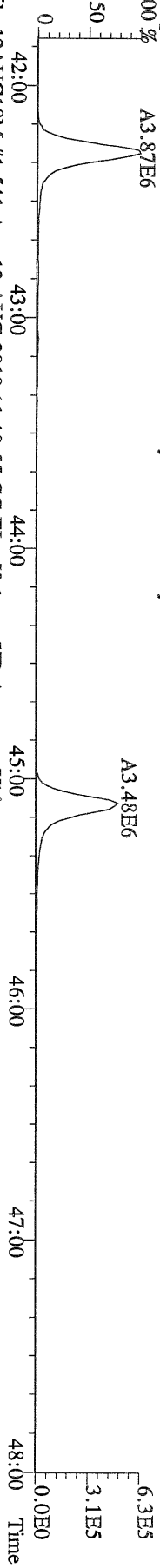
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 385.8610 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



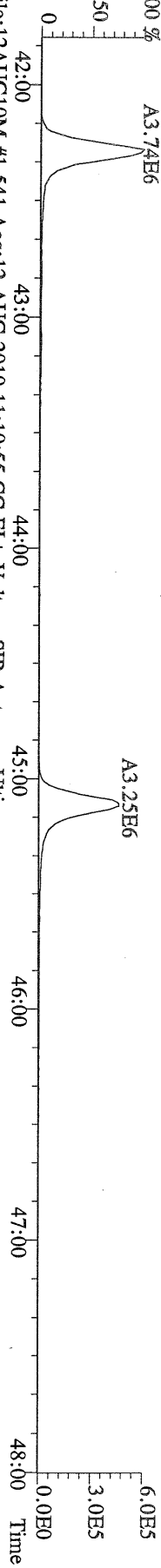
File:12AUG10M #1-477 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



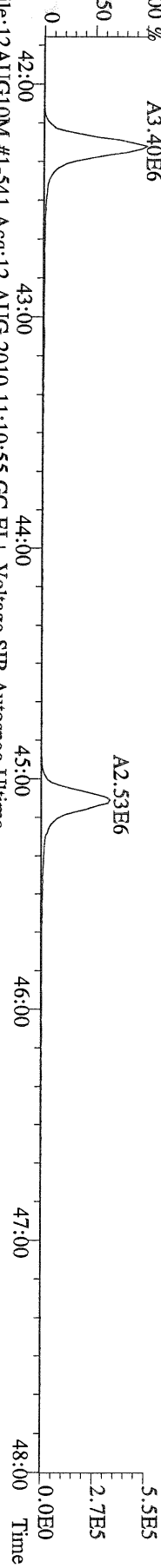
File:12AUG10M #1-541 Acq:12-AUG-2010 11:10:55 GC EI+ Voltage SIR Autospec-Ultima
407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



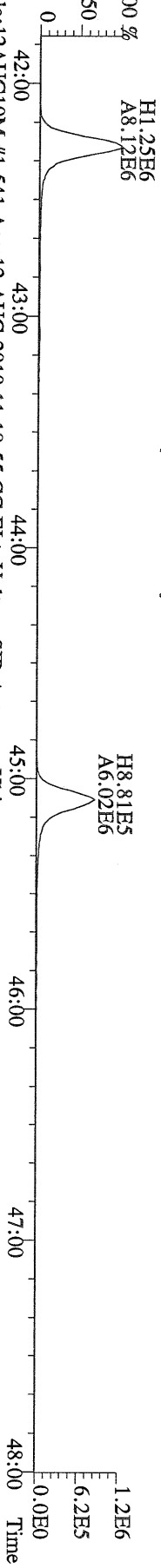
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409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



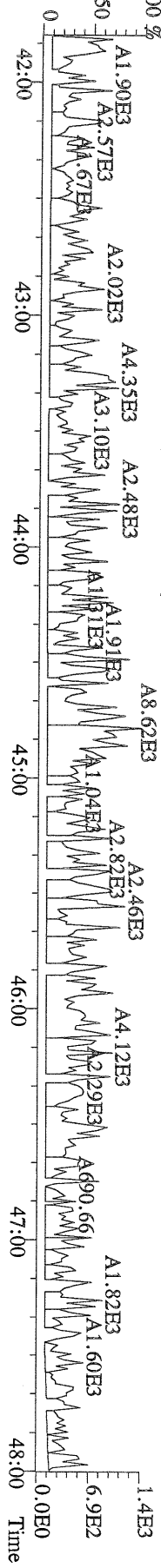
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417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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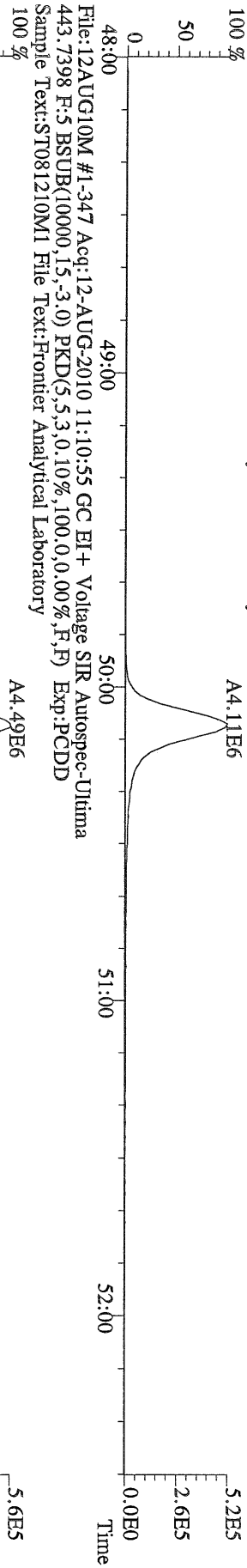
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419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



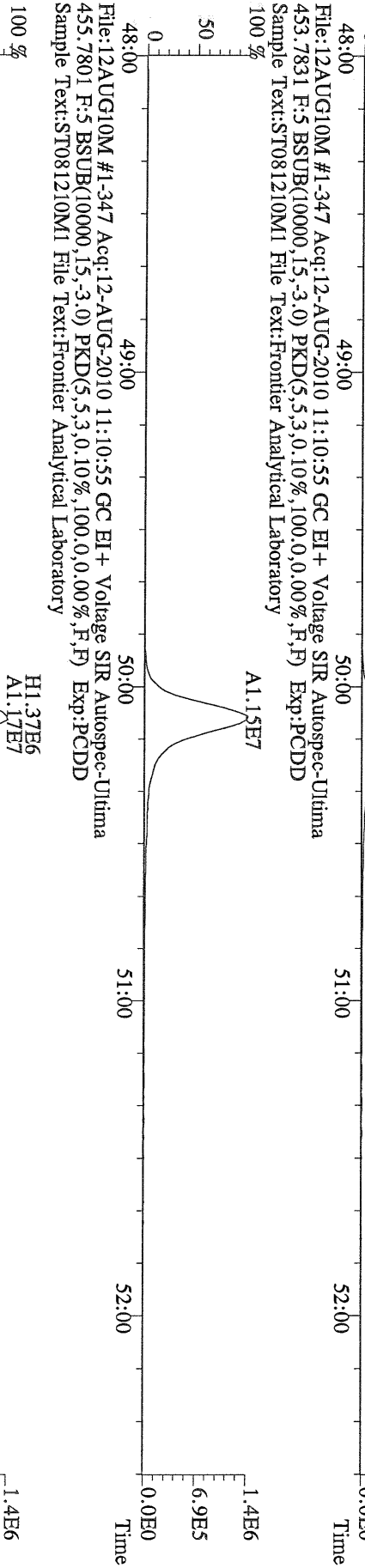
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Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory



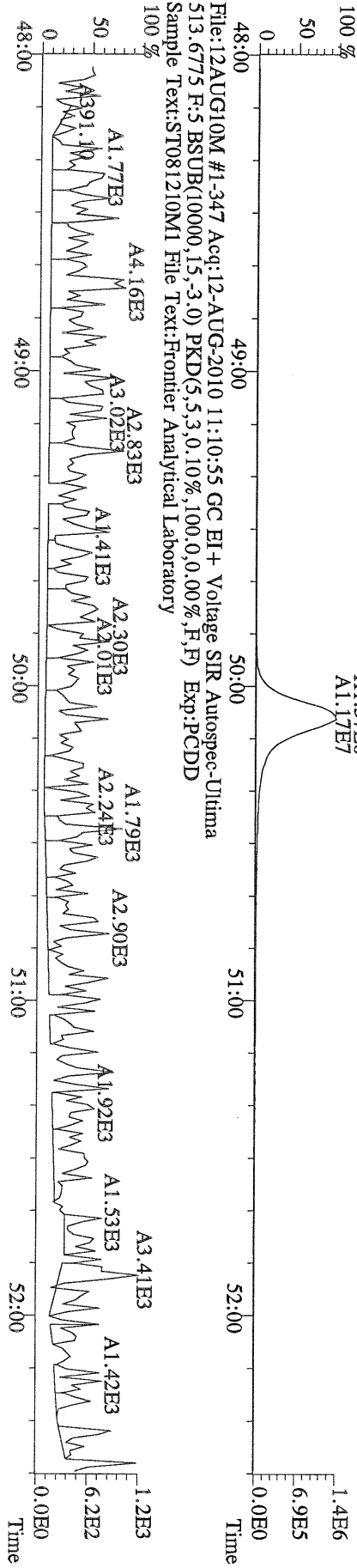
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441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory

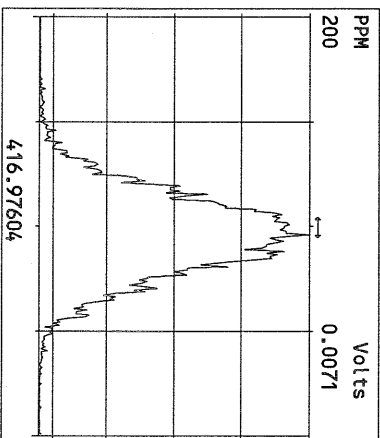
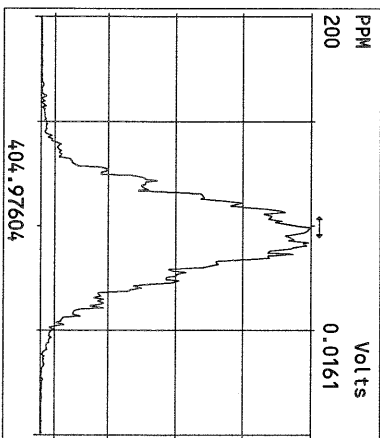
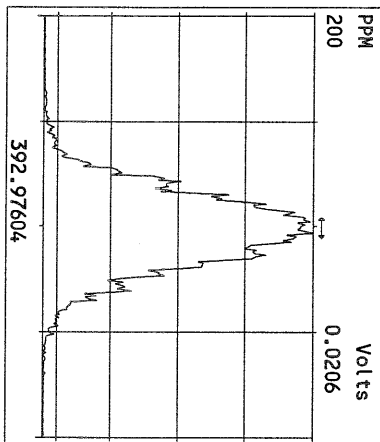
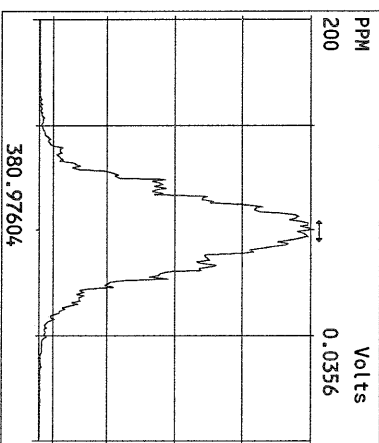
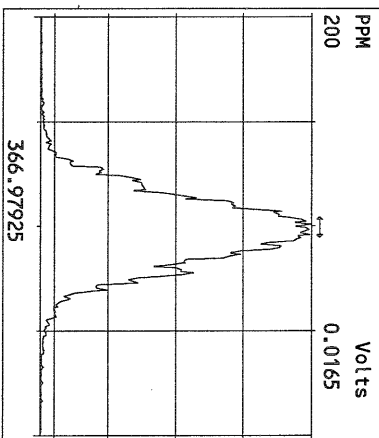
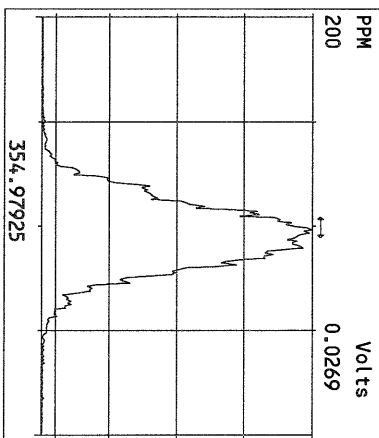
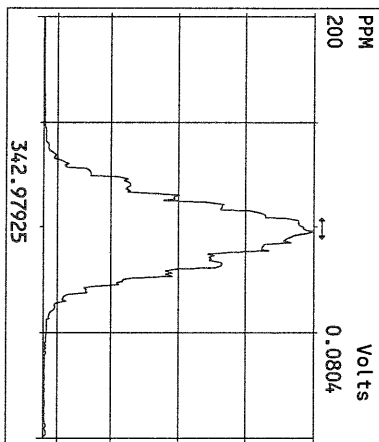
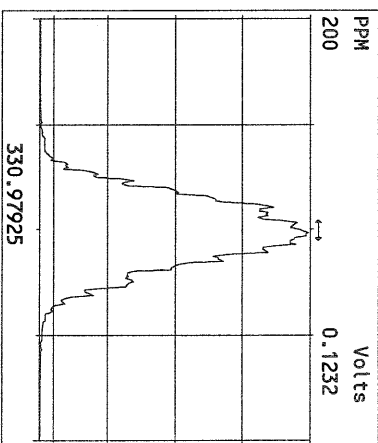
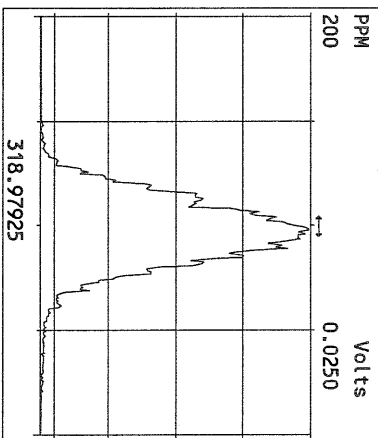
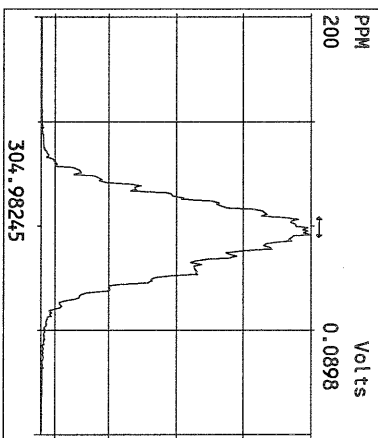
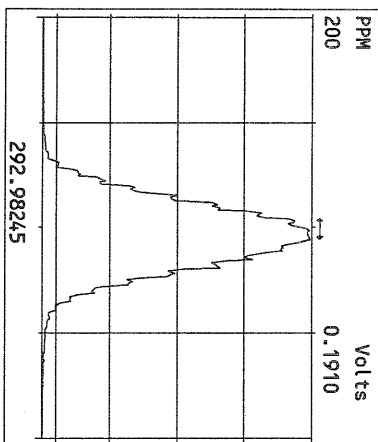


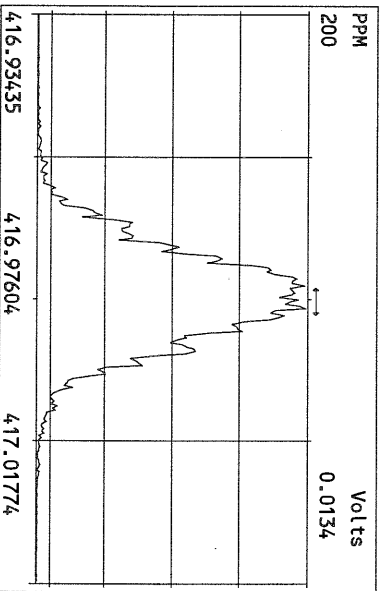
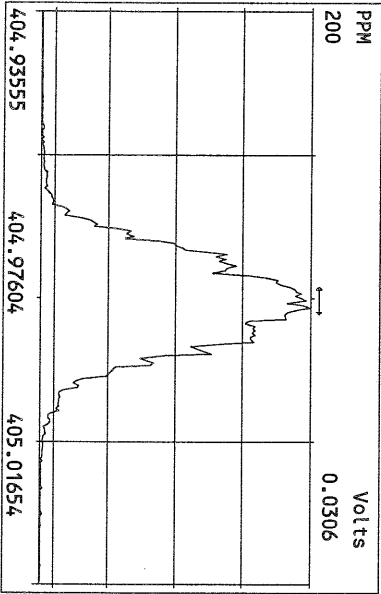
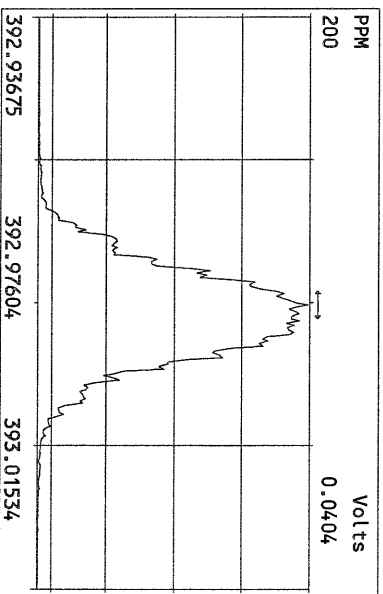
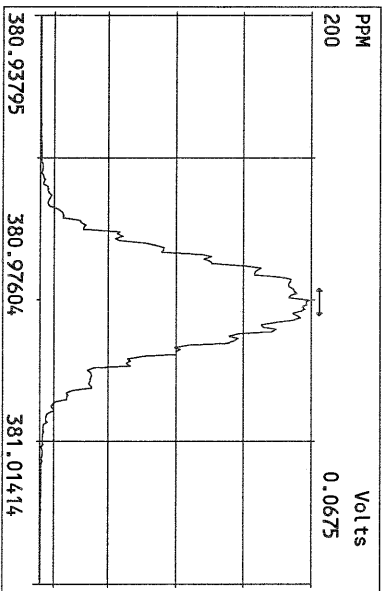
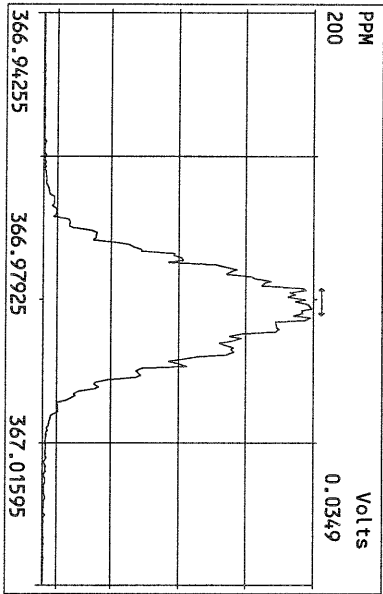
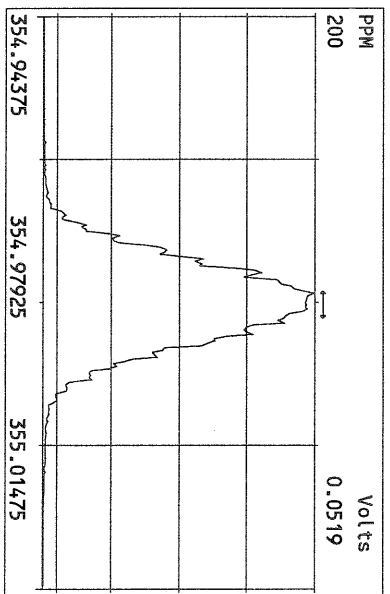
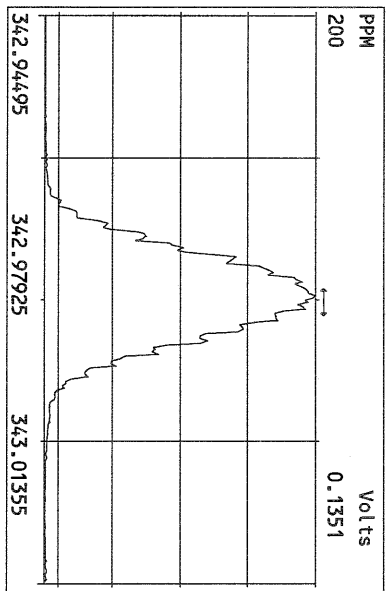
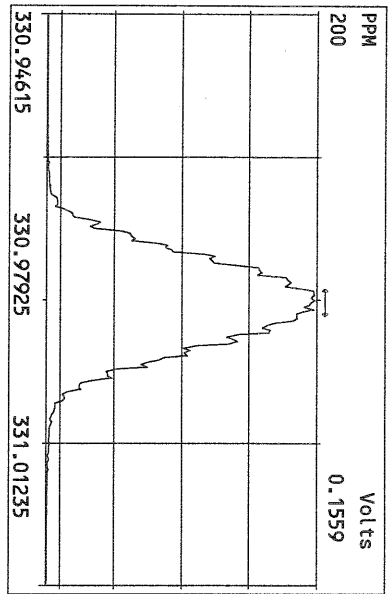
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453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory

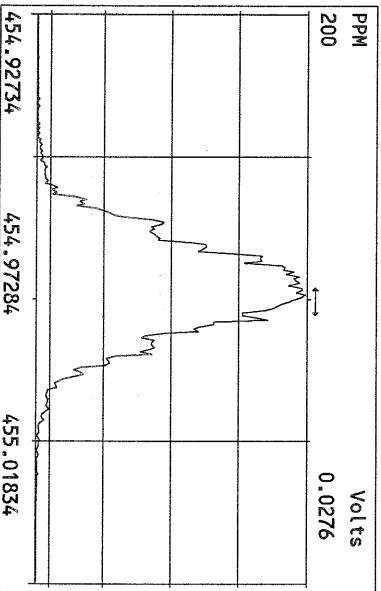
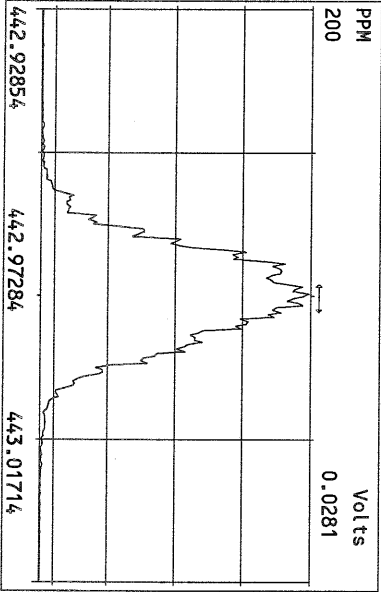
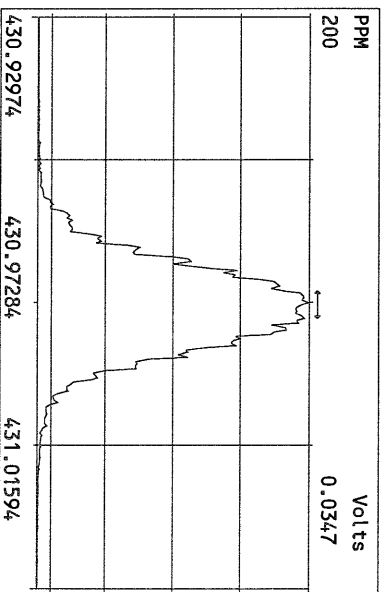
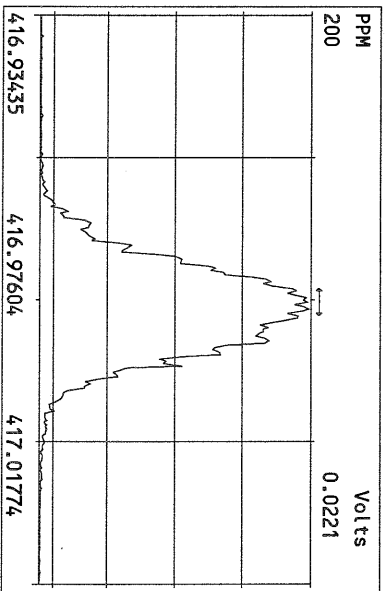
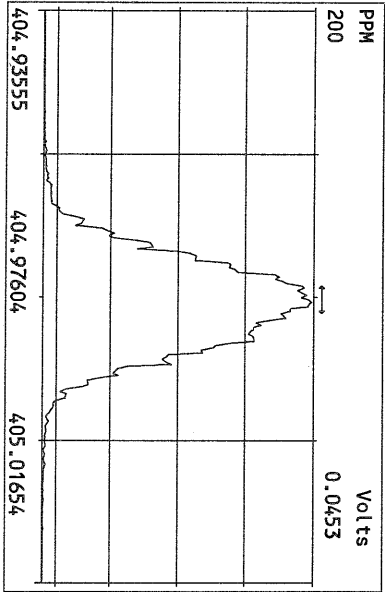
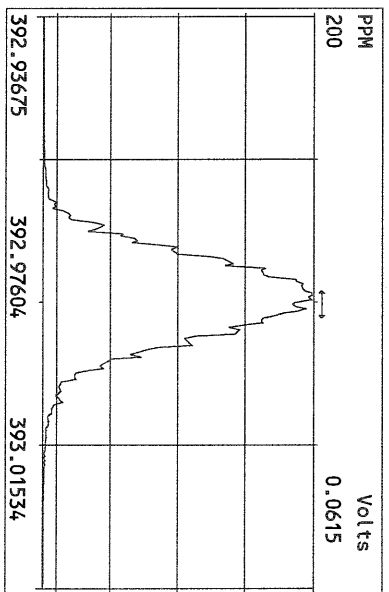
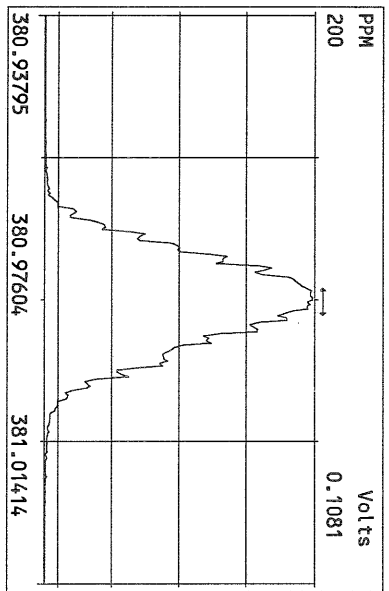
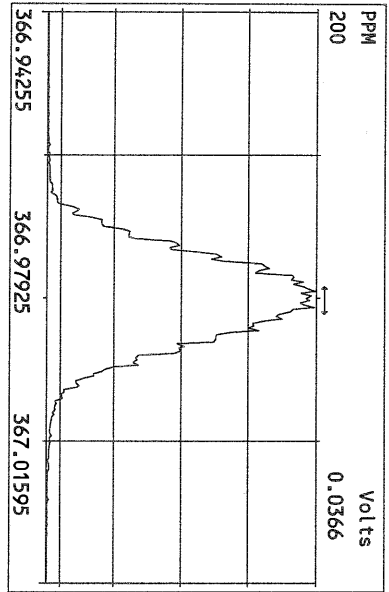


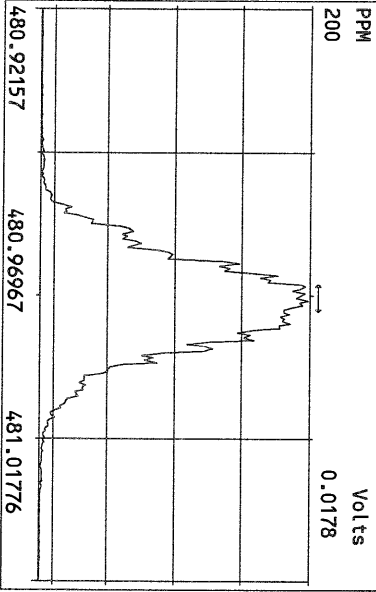
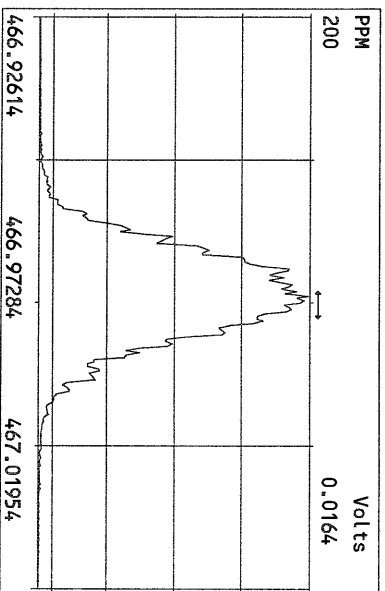
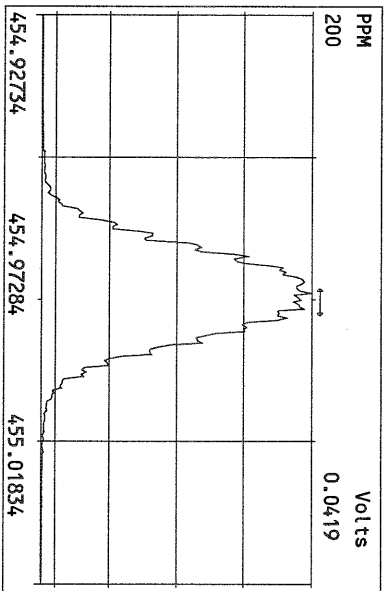
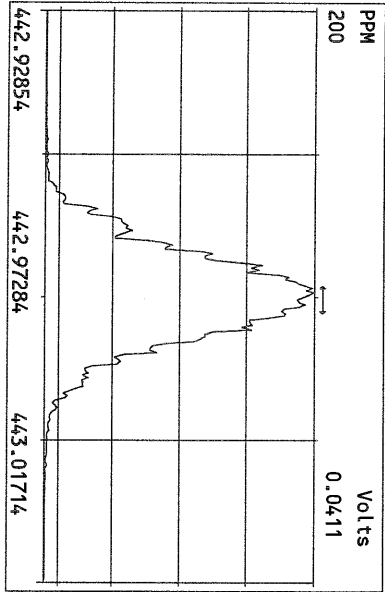
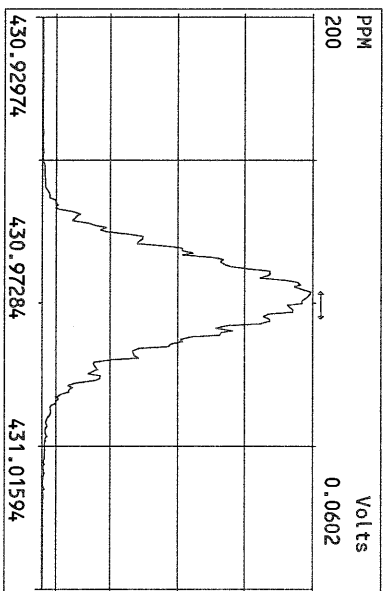
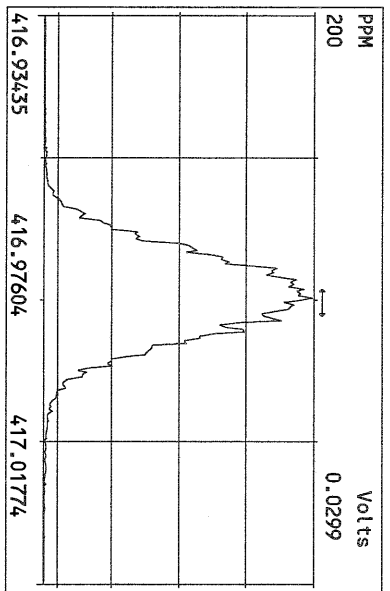
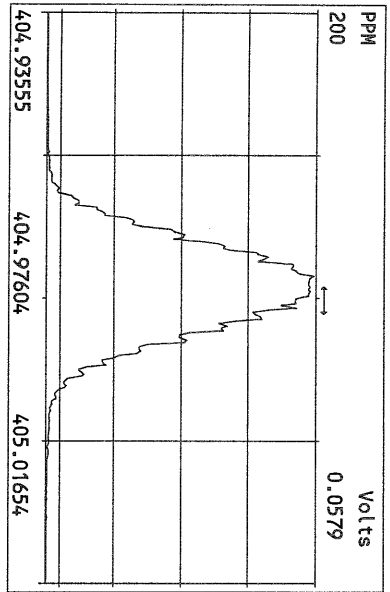
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513.6775 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081210M1 File Text:Frontier Analytical Laboratory

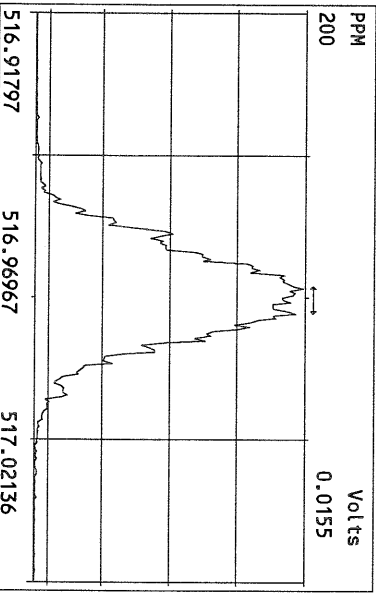
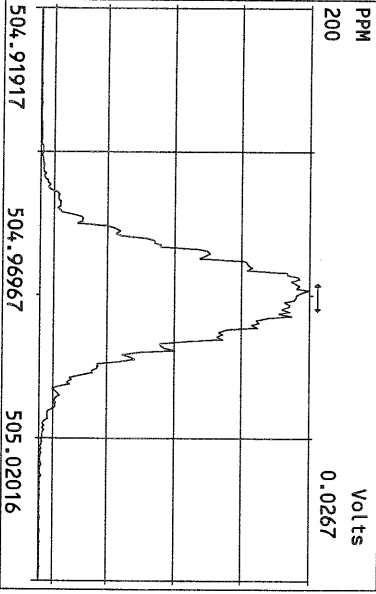
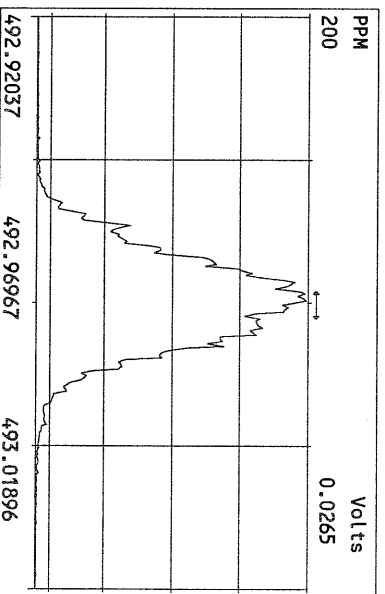
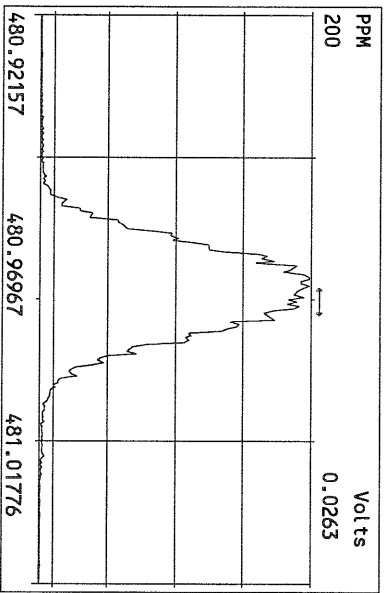
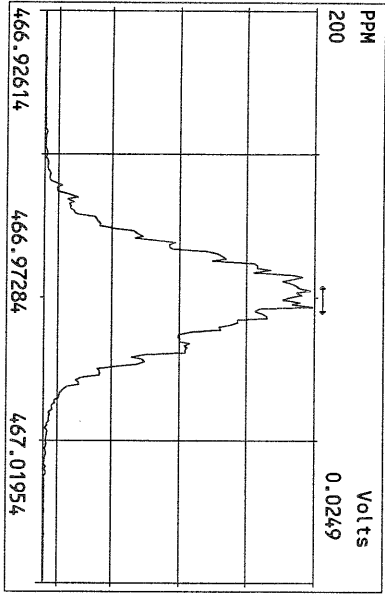
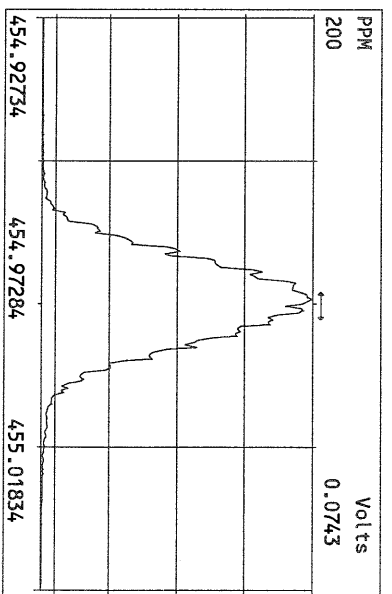
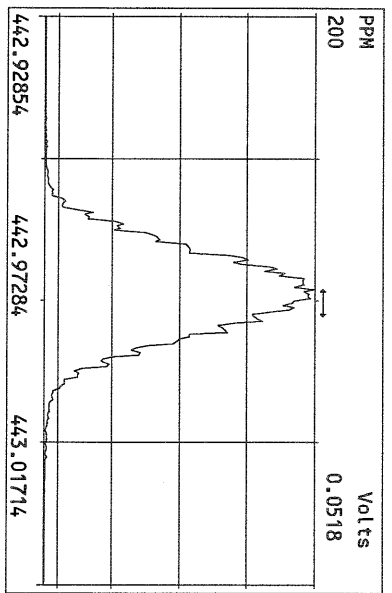
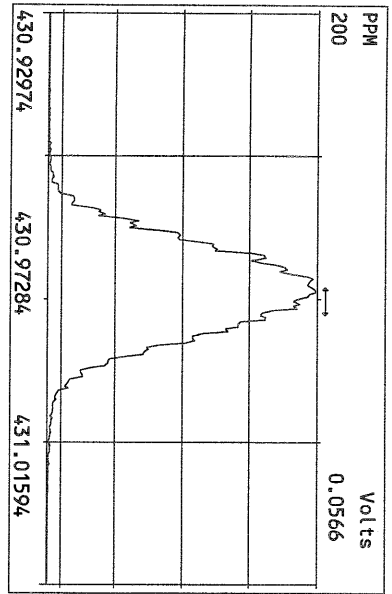












USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 12AUG10M Sam:16

Analysis Date: 13-AUG-10 01:01:28

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	0.73	0.65-0.89	y	10.9	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.72	1.32-1.78	y	51.7	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.42	1.05-1.43	y	55.6	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.42	1.05-1.43	y	53.6	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.39	1.05-1.43	y	58.0	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	52.4	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.99	0.76-1.02	y	111	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.68	0.65-0.89	y	10.6	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.51	1.32-1.78	y	55.7	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.49	1.32-1.78	y	53.0	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	47.3	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	49.1	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.28	1.05-1.43	y	49.2	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.28	1.05-1.43	y	48.4	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.06	0.88-1.20	y	47.6	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	47.6	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.90	0.76-1.02	y	103	63.0 - 159 ✓

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

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

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

Analyst: Date: 8/13/10

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5


Analysis Date: 13-AUG-10 01:01:28

CS3 or VER Data Filename: 12AUG10M

Sam:16

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	1.000	0.999-1.002 ✓
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002 ✓
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.022	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		1.238	1.000-1.567 ✓
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203 ✓
13C-2,3,4,7,8-PeCDF		1.223	0.923-1.303 ✓

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

Analyst: Date: 8/13/10

NATO 1989 Tox: 105
 WHO 1998 Tox: 131 WHO 2005 Tox: 119

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	119
2,3,7,8-TCDD	2.44e+06	0.73 y	27:28	1.04	10.9		2.50	-	-	*
1,2,3,7,8-PeCDD	1.11e+07	1.72 y	33:16	1.05	51.7		2.50	-	-	*
1,2,3,4,7,8-HxCDD	1.13e+07	1.42 y	38:37	1.30	55.6		2.50	-	-	*
1,2,3,6,7,8-HxCDD	1.05e+07	1.42 y	38:47	1.28	53.6		2.50	-	-	*
1,2,3,7,8,9-HxCDD	1.12e+07	1.39 y	39:14	1.25	58.0		2.50	-	-	*
1,2,3,4,6,7,8-HpCDD	1.06e+07	1.03 y	44:13	1.35	52.4		2.50	-	-	*
OCDD	1.37e+07	0.99 y	49:47	1.25	111		2.50	-	-	*
2,3,7,8-TCDF	6.02e+06	0.68 y	26:42	1.62	10.6		2.50	-	-	*
1,2,3,7,8-PeCDF	1.73e+07	1.51 y	31:32	0.92	55.7		2.50	-	-	*
2,3,4,7,8-PeCDF	1.68e+07	1.49 y	32:51	0.94	53.0		2.50	-	-	*
1,2,3,4,7,8-HxCDF	1.50e+07	1.26 y	37:14	0.93	47.3		2.50	-	-	*
1,2,3,6,7,8-HxCDF	1.65e+07	1.27 y	37:26	0.84	49.1		2.50	-	-	*
2,3,4,6,7,8-HxCDF	1.52e+07	1.28 y	38:22	0.90	49.2		2.50	-	-	*
1,2,3,7,8,9-HxCDF	1.39e+07	1.28 y	39:48	0.98	48.4		2.50	-	-	*
1,2,3,4,6,7,8-HpCDF	1.33e+07	1.06 y	42:19	1.38	47.6		2.50	-	-	*
1,2,3,4,7,8,9-HpCDF	1.23e+07	1.05 y	45:08	1.62	47.6		2.50	-	-	*
OCDF	1.55e+07	0.90 y	50:10	0.74	103		2.50	-	-	*
										Rec
13C-2,3,7,8-TCDD	2.15e+07	0.87 y	27:25	0.93	101					101
13C-1,2,3,7,8-PeCDD	2.05e+07	1.72 y	33:15	0.81	111					111
13C-1,2,3,4,7,8-HxCDD	1.56e+07	1.31 y	38:36	0.95	103					103
13C-1,2,3,6,7,8-HxCDD	1.53e+07	1.32 y	38:46	1.00	96.0					96.0
13C-1,2,3,4,6,7,8-HpCDD	1.49e+07	1.04 y	44:12	0.92	101					101
13C-OCDD	1.98e+07	0.93 y	49:46	0.63	195					97.6
13C-2,3,7,8-TCDF	3.51e+07	0.87 y	26:41	0.87	99.2					99.2
13C-1,2,3,7,8-PeCDF	3.40e+07	1.74 y	31:31	0.81	104					104
13C-2,3,4,7,8-PeCDF	3.36e+07	1.73 y	32:50	0.75	110					110
13C-1,2,3,4,7,8-HxCDF	3.42e+07	0.53 y	37:13	1.74	123					123
13C-1,2,3,6,7,8-HxCDF	4.02e+07	0.54 y	37:24	2.17	116					116
13C-2,3,4,6,7,8-HxCDF	3.44e+07	0.55 y	38:21	1.82	118					118
13C-1,2,3,7,8,9-HxCDF	2.91e+07	0.54 y	39:48	1.49	122					122
13C-1,2,3,4,6,7,8-HpCDF	2.02e+07	0.43 y	42:18	1.10	115					115
13C-1,2,3,4,7,8,9-HpCDF	1.59e+07	0.40 y	45:08	0.81	122					122
13C-OCDF	4.05e+07	0.97 y	50:08	1.19	213					106
37Cl-2,3,7,8-TCDD	2.14e+06		27:26	0.93	10.1					101
13C-1,2,3,4-TCDD	2.29e+07	0.84 y	26:51	-	67.4					
13C-1,2,3,4-TCDF	4.07e+07	0.88 y	25:36	-	76.3					
13C-1,2,3,7,8,9-HxCDD	1.60e+07	1.32 y	39:14	-	74.4					
							Fac Noise-1	Noise-2	DL	#Hom
Total Tetra-Dioxins	1.29e+07		24:26	1.04	58.1		2.50	-	-	* 18
Total Penta-Dioxins	2.41e+07		30:17	1.05	112		2.50	-	-	* 6
Total Hexa-Dioxins	3.75e+07		36:10	1.27	190		2.50	-	-	* 10
Total Hepta-Dioxins	2.27e+07		42:51	1.35	112		2.50	-	-	* 6
Total Tetra-Furans	2.63e+07		23:05	1.62	46.3		2.50	-	-	* 21
1st Fn. Tot Penta-Furans	1.48e+07		28:28	0.93	47.3		2.50	-	-	* PeCDF 1
Total Penta-Furans	4.96e+07		30:14	0.93	158		2.50	-	-	* 205 10
Total Hexa-Furans	7.08e+07		35:17	0.90	227		2.50	-	-	* 12
Total Hepta-Furans	2.59e+07		42:19	1.48	96.2		2.50	-	-	* 6

Analyst:  Date: 8/13/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:12AUG10M

Instrument: FAL3

GC: DB5

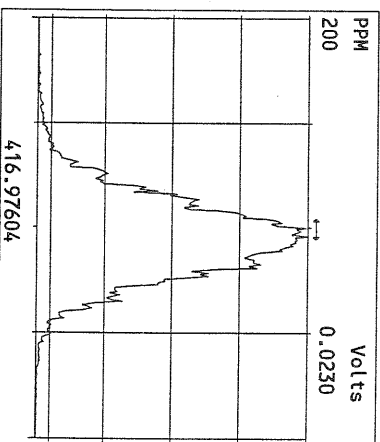
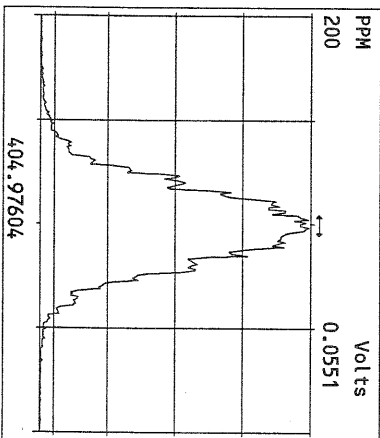
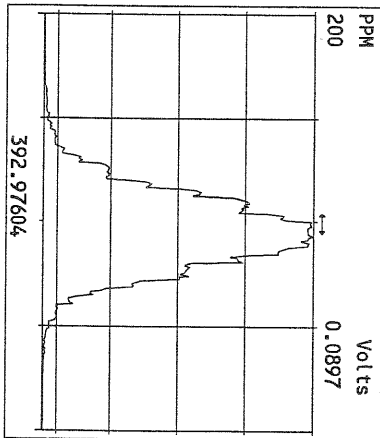
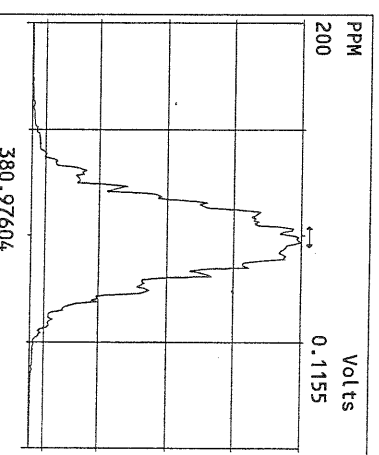
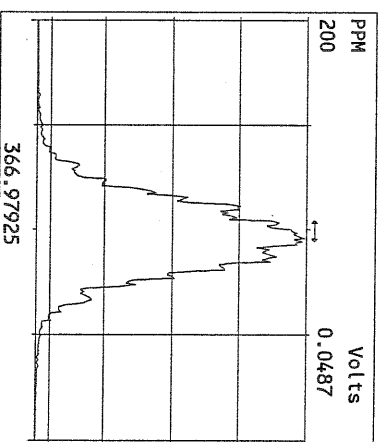
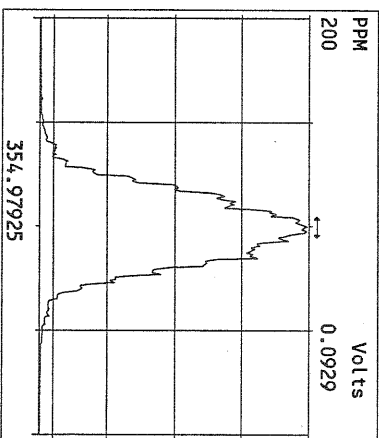
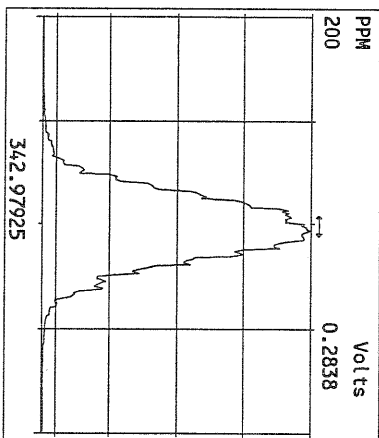
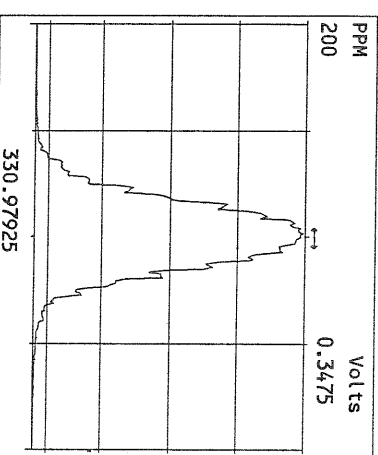
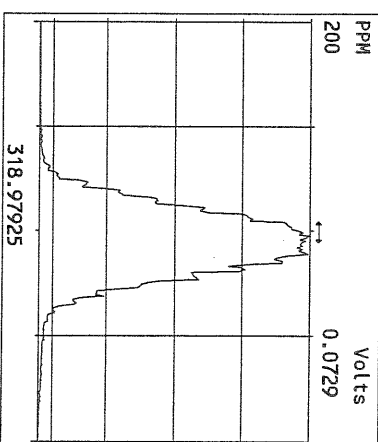
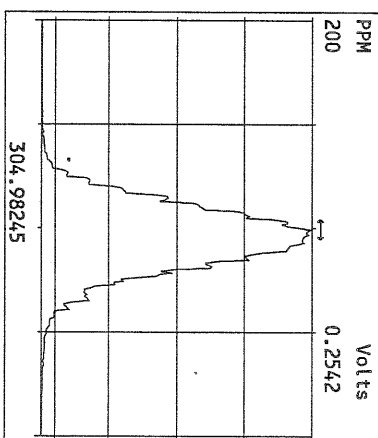
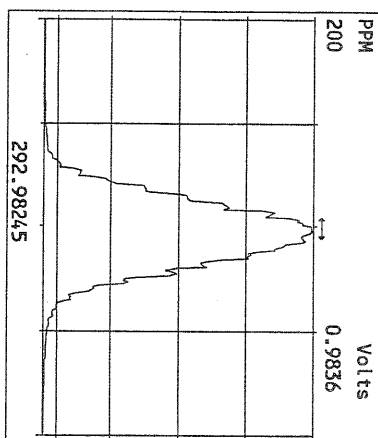
Experiment:PCDD

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12AUG10M	2	SB081210M1	Solvent Blank	12-AUG-10 12:06:13	ST081210M1 ST081210M2	TC
12AUG10M	3	6273-009-0001-SA	PSB07-1.5-2.0-072810	12-AUG-10 13:01:32	ST081010M1 ST081010N2	TC
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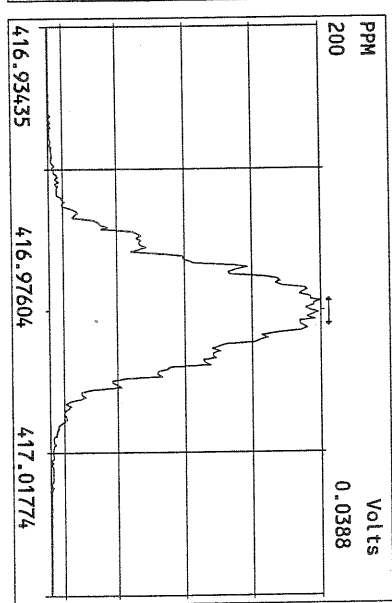
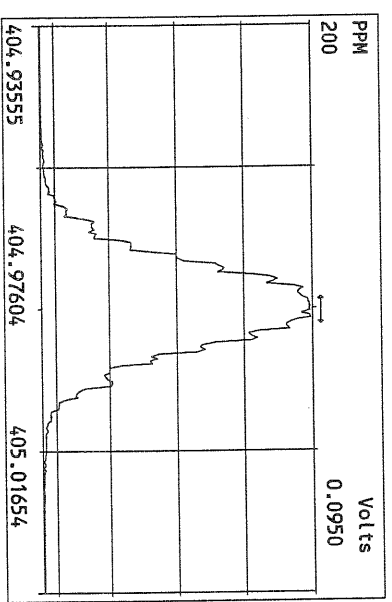
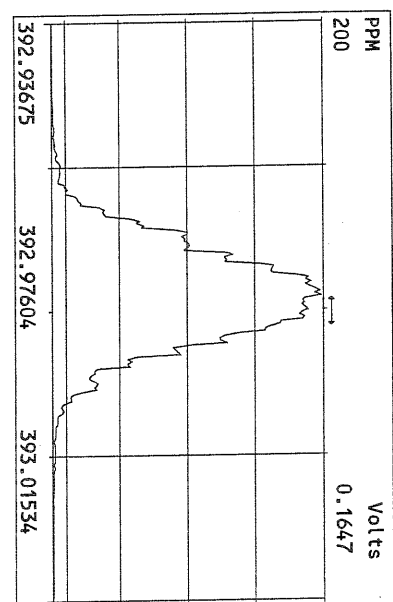
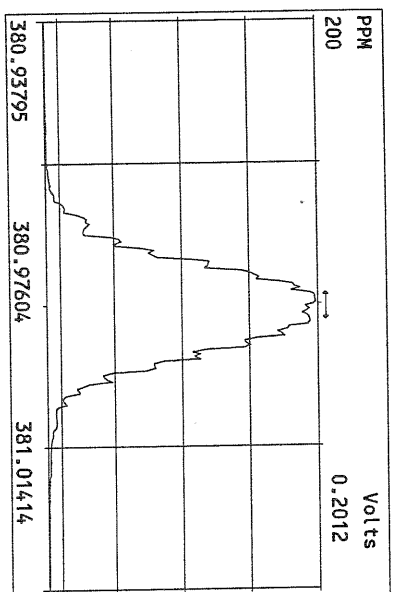
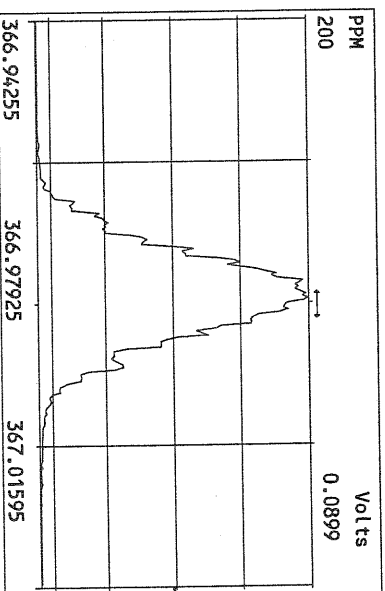
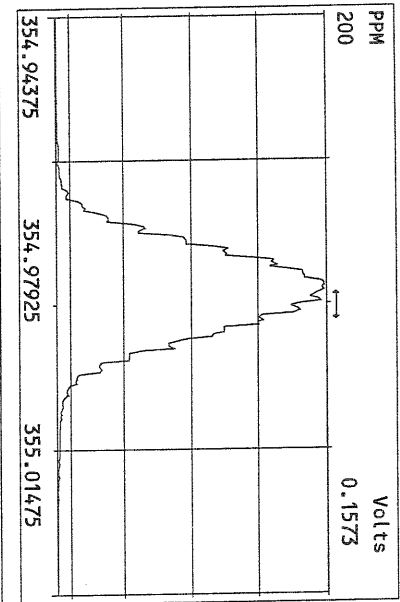
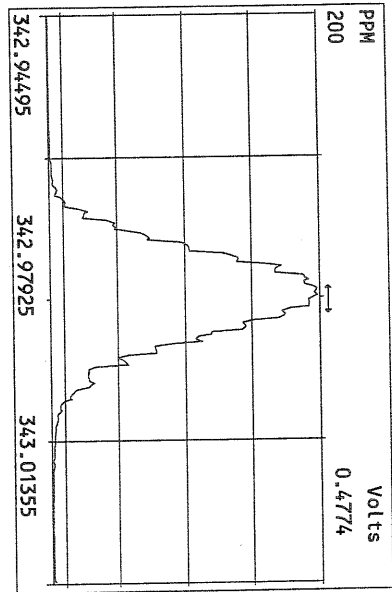
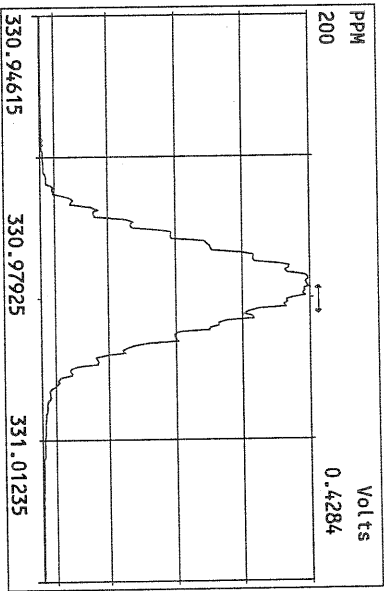
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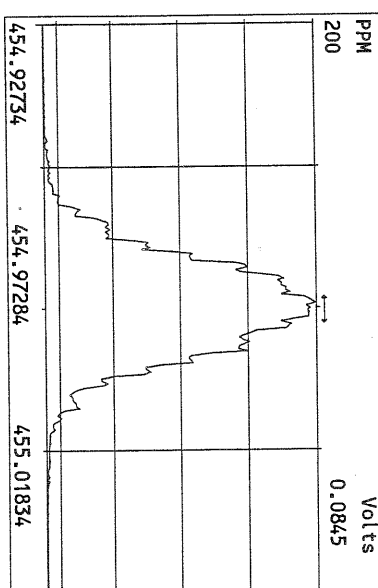
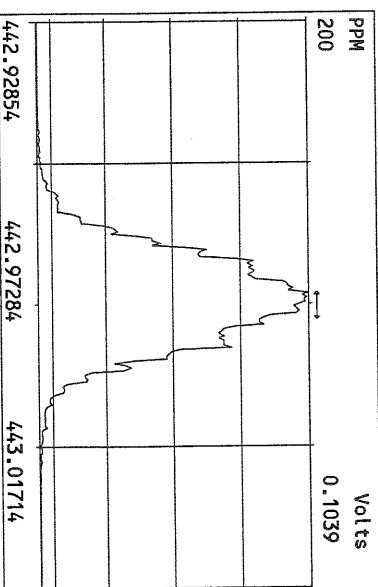
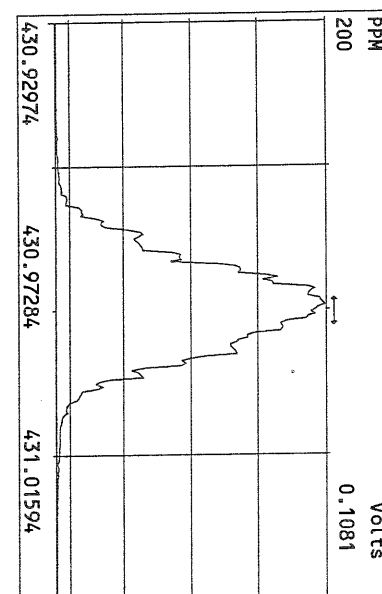
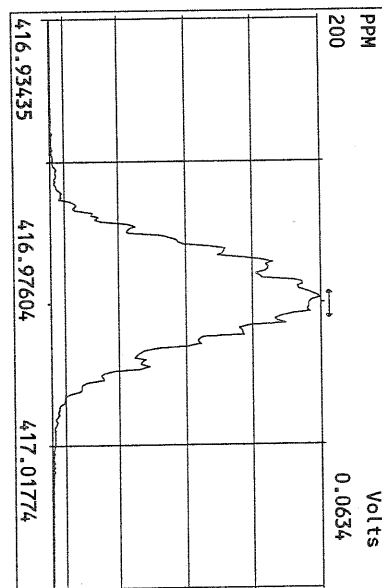
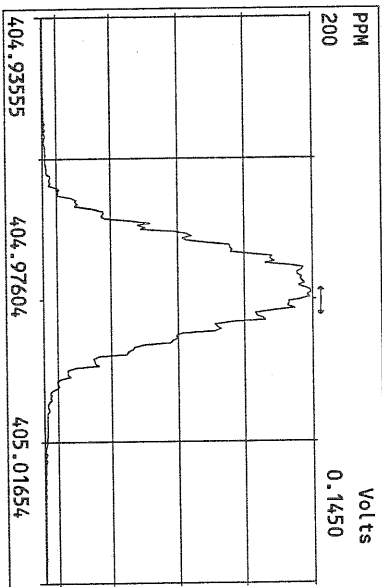
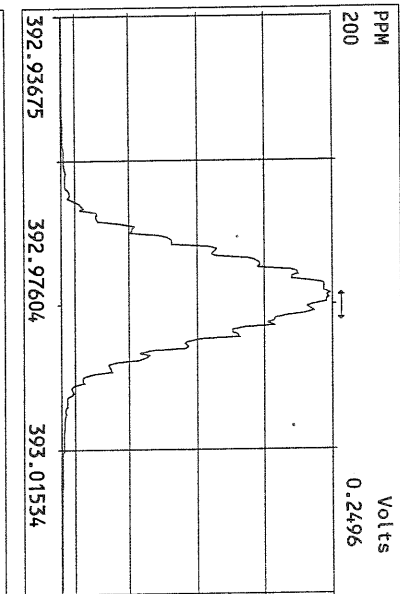
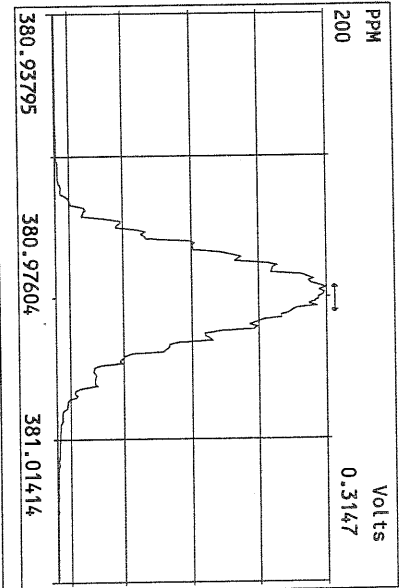
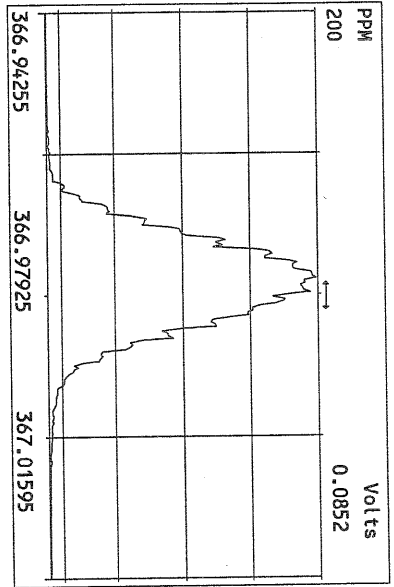
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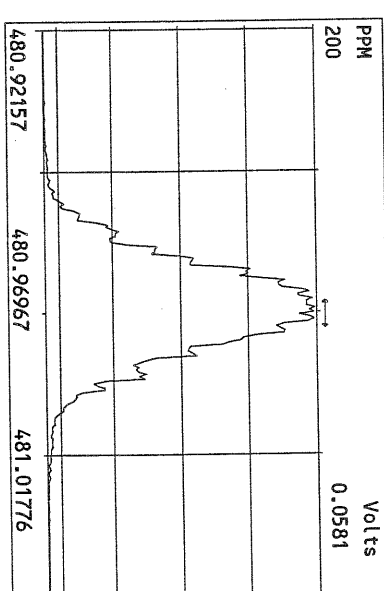
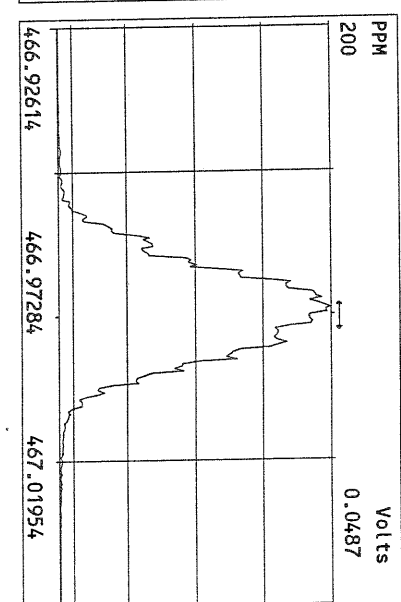
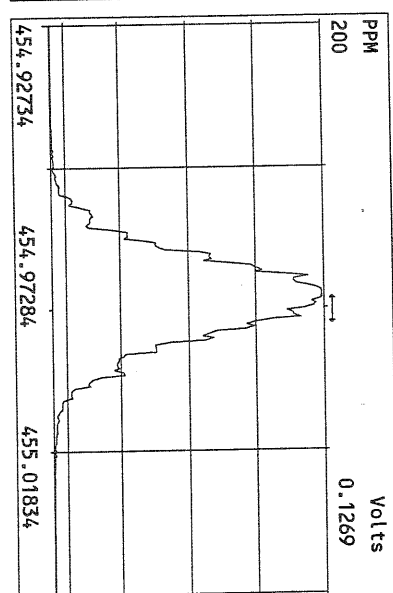
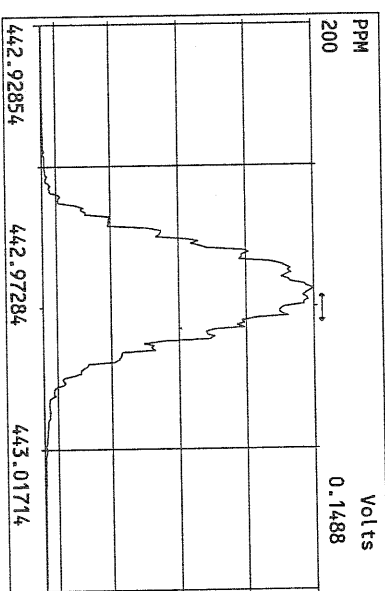
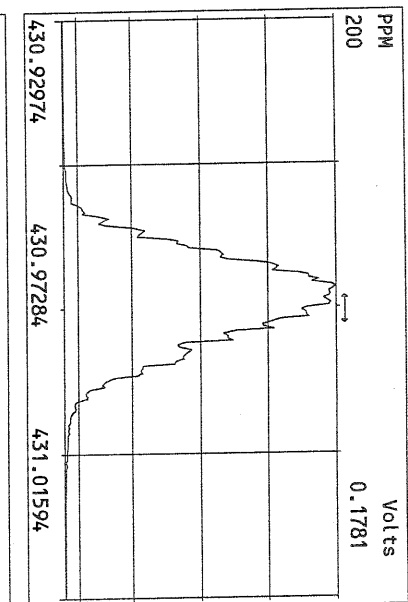
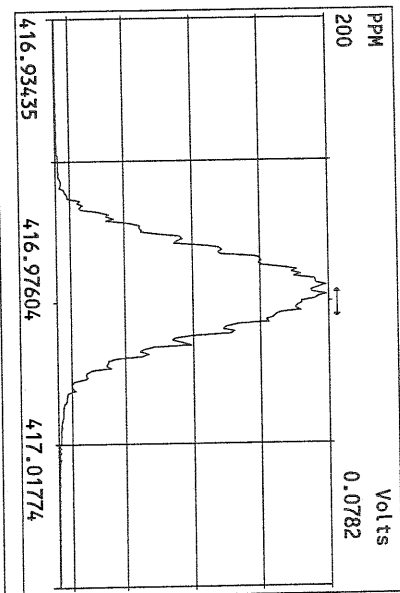
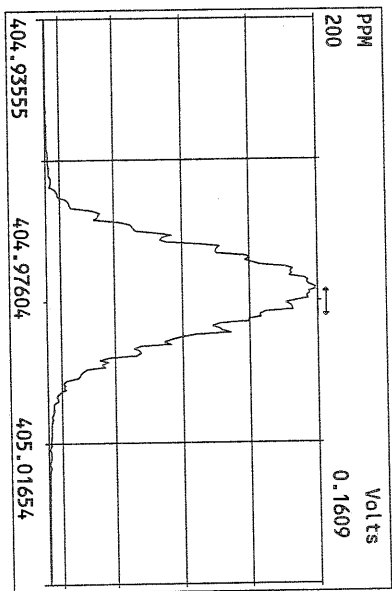


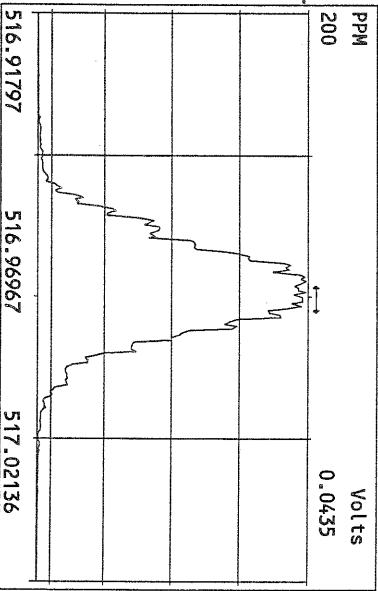
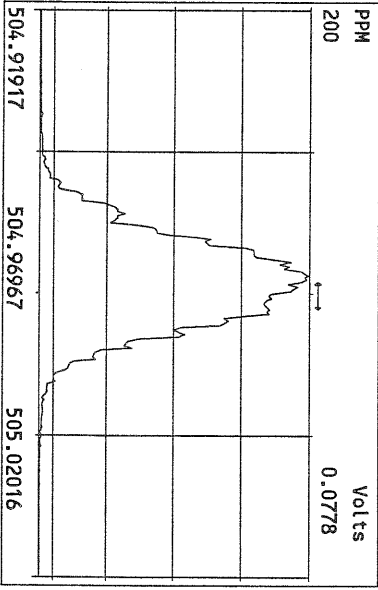
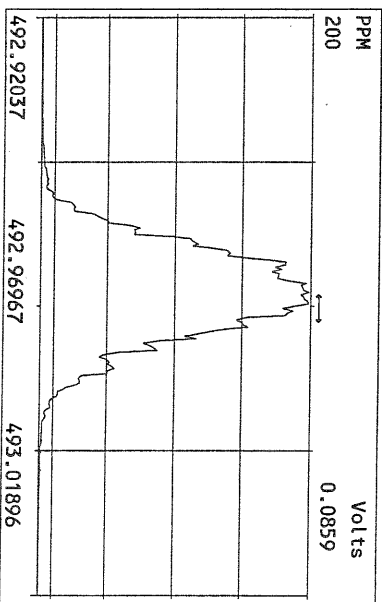
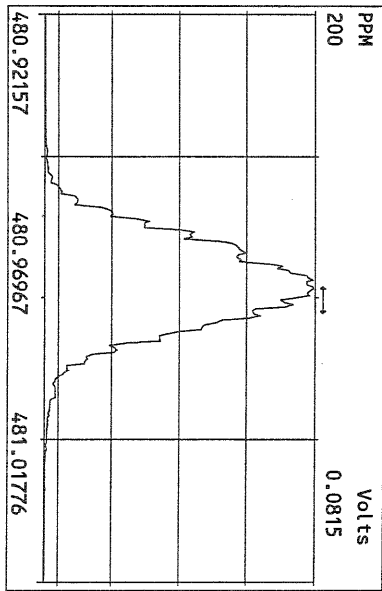
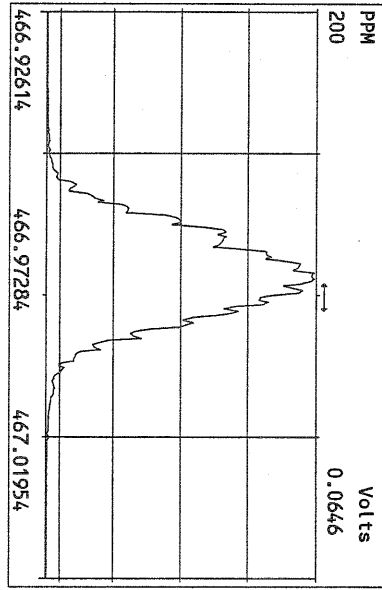
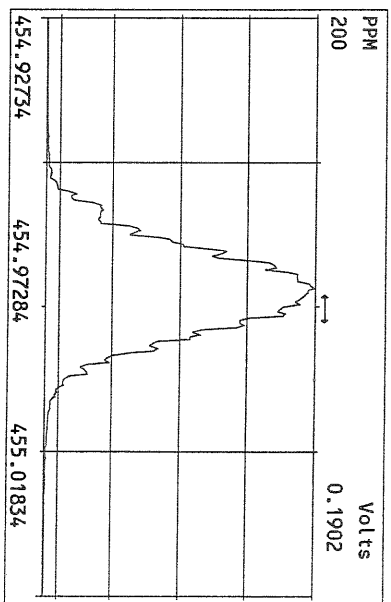
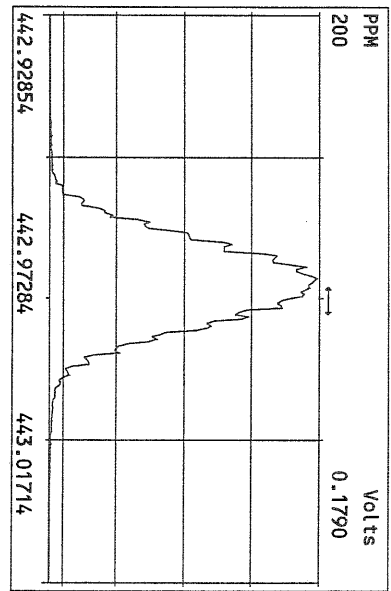
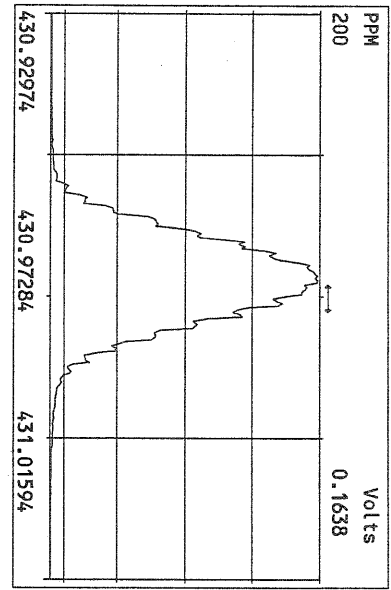
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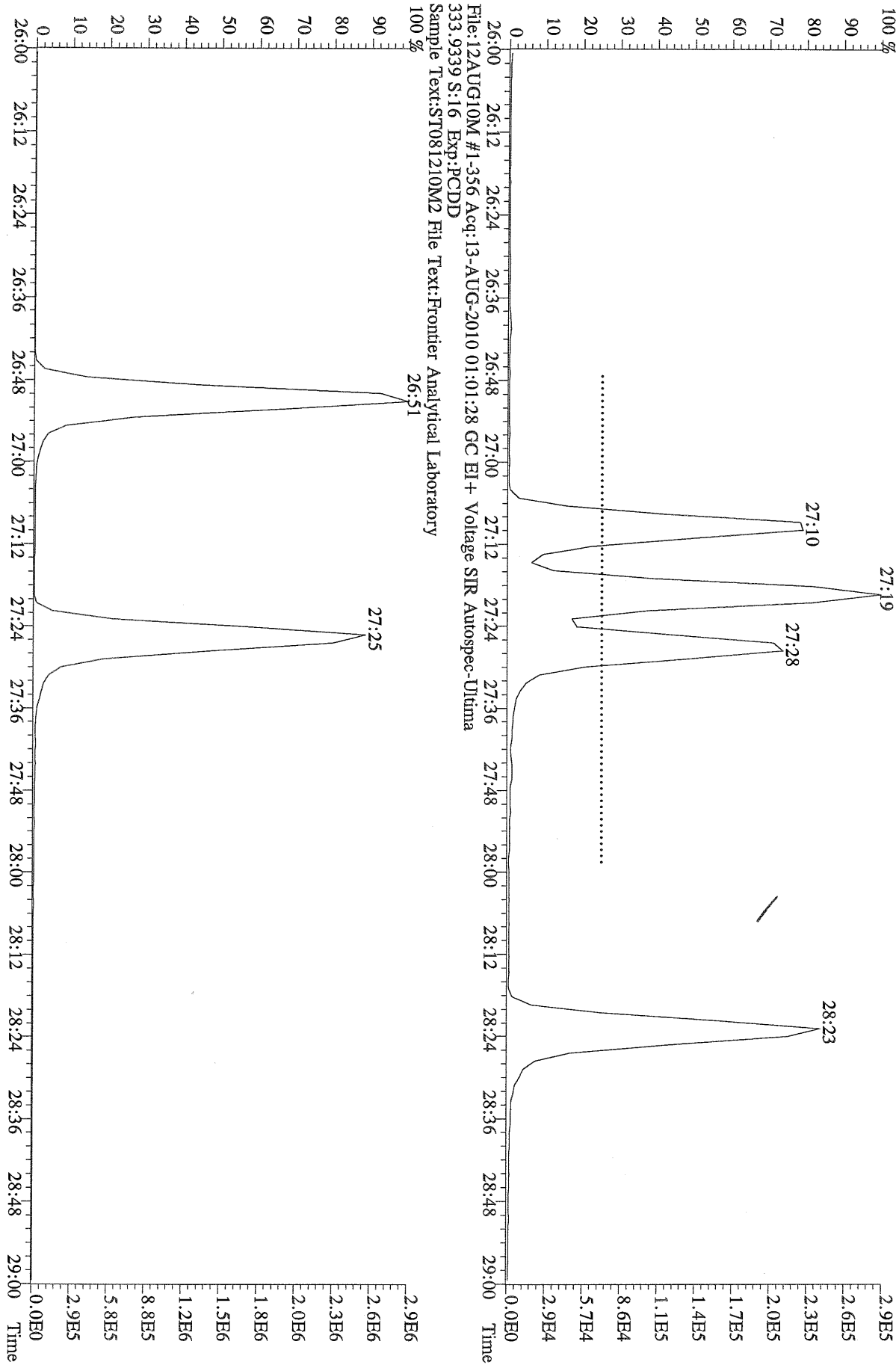


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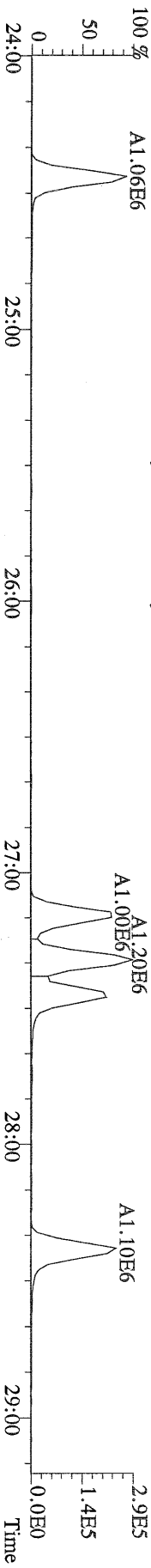




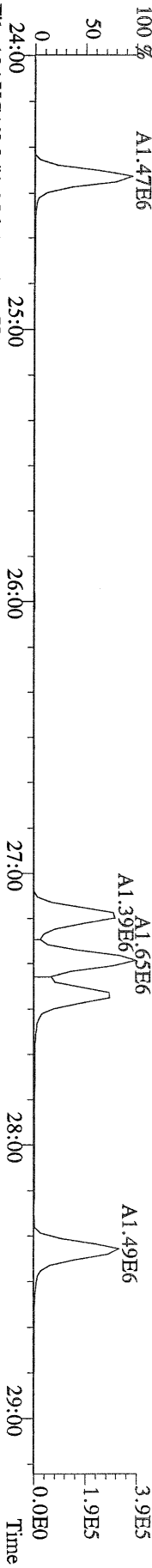
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Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



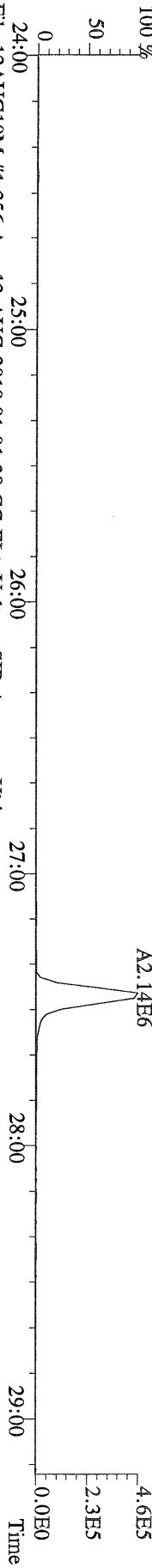
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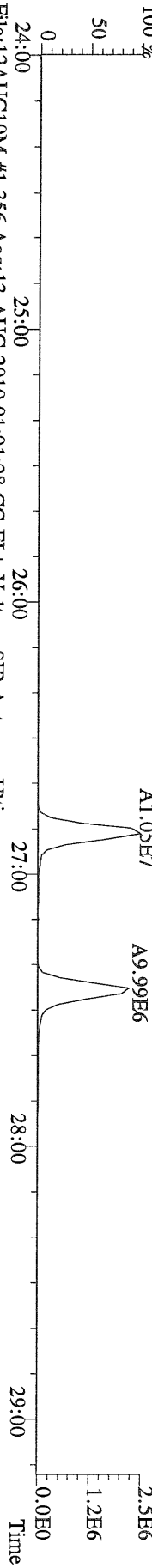
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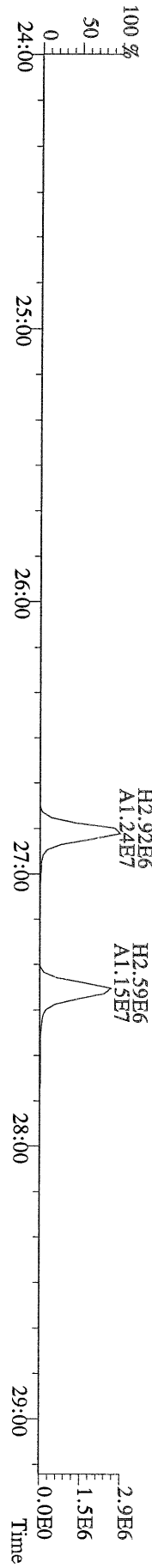
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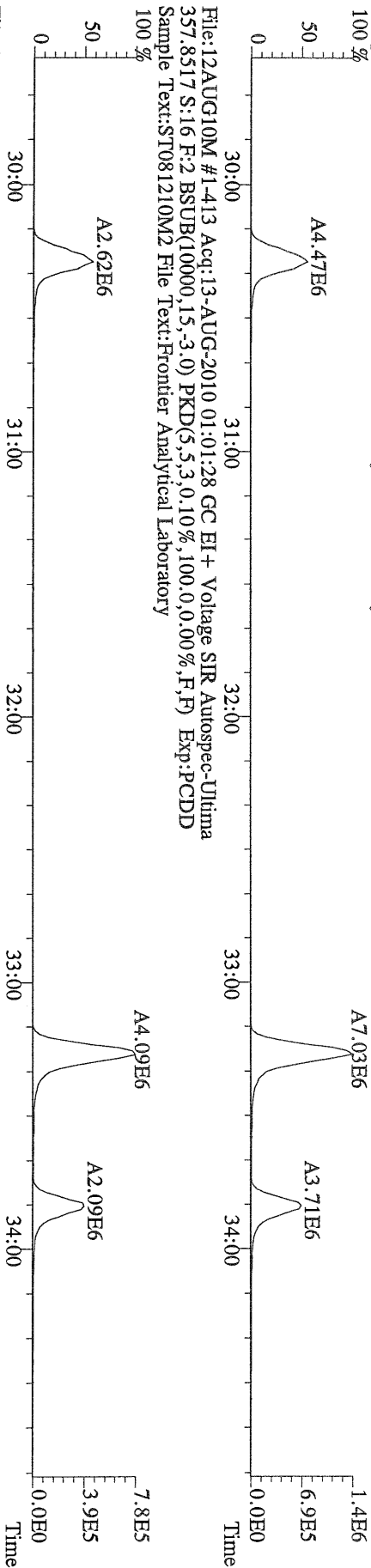
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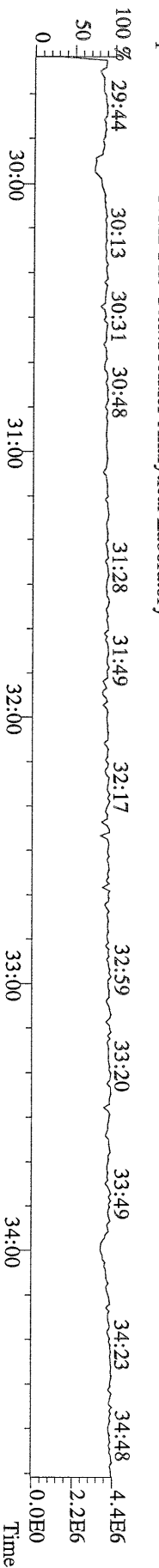
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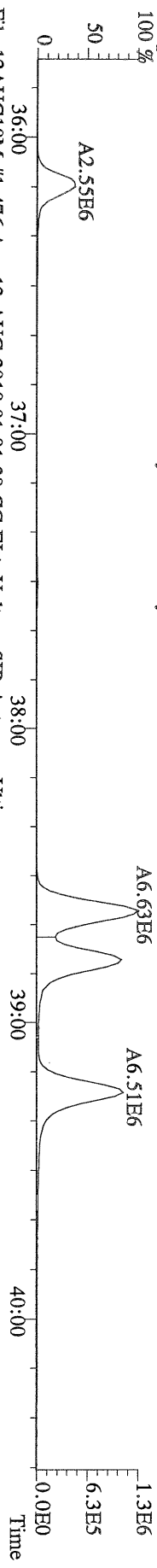
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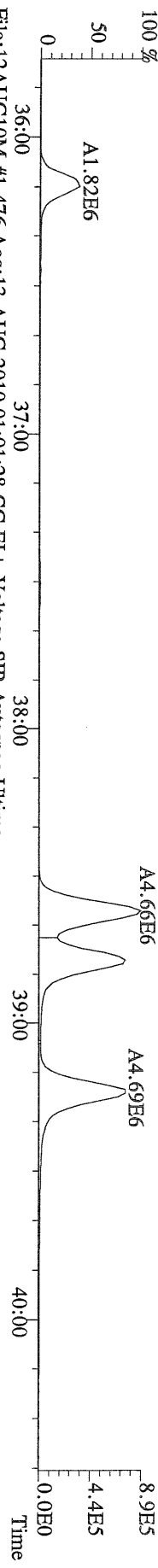
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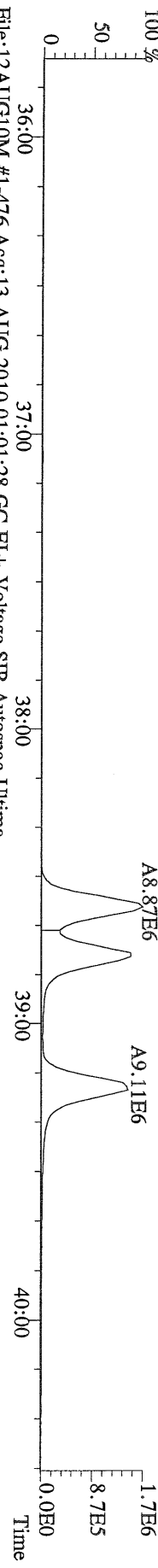
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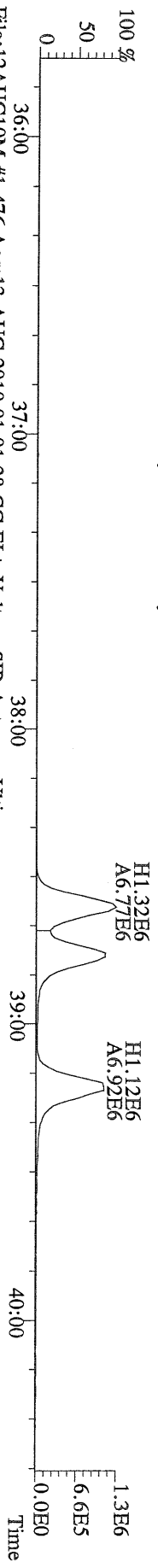
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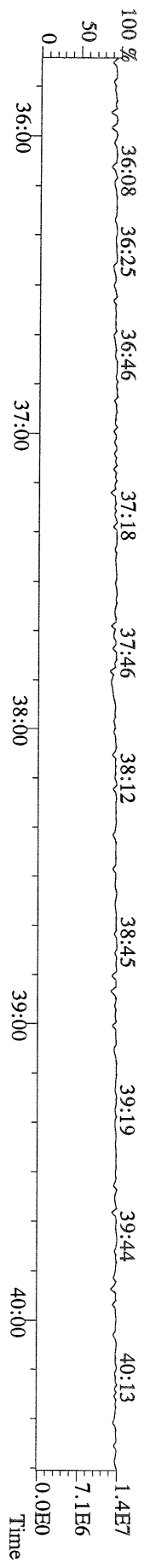
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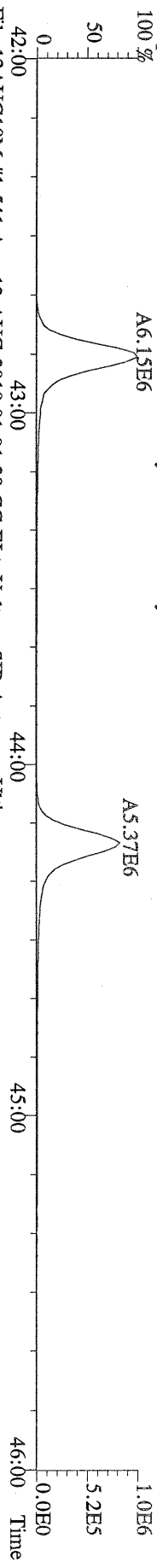
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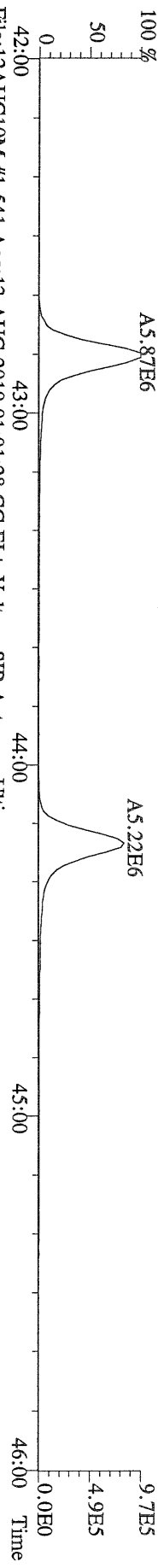
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 380.9760 S:16 F:3 Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



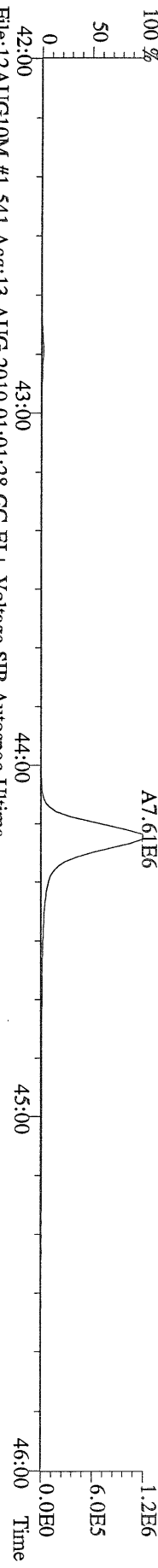
File:12AUG10M #1-541 Acq:13-AUG-2010 01:01:28 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



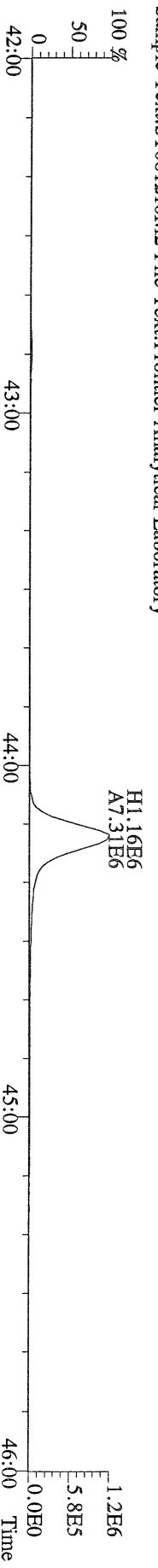
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425.7737 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



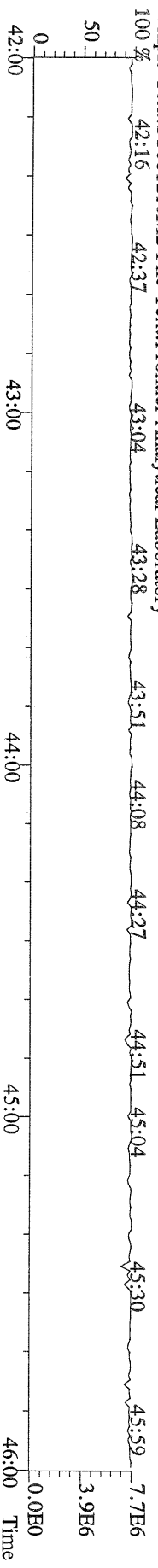
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435.8169 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



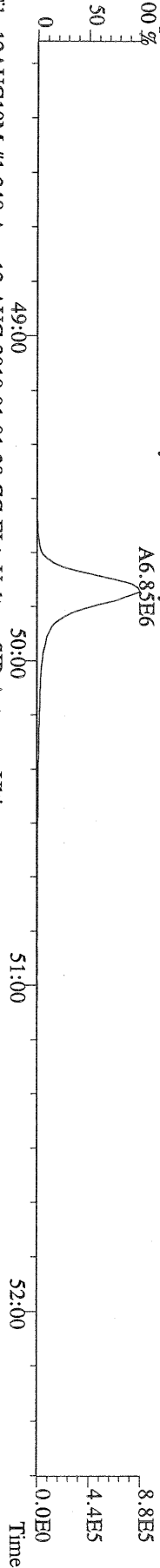
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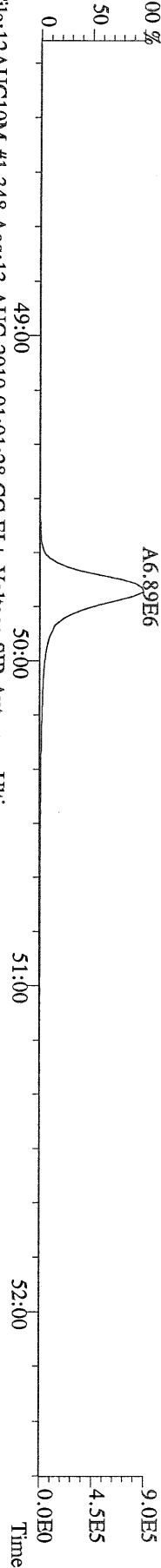
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430.9728 S:16 F:4 Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



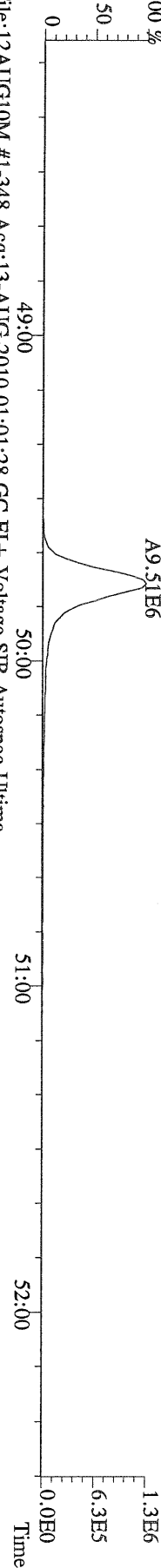
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 457.7377 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:P.CDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



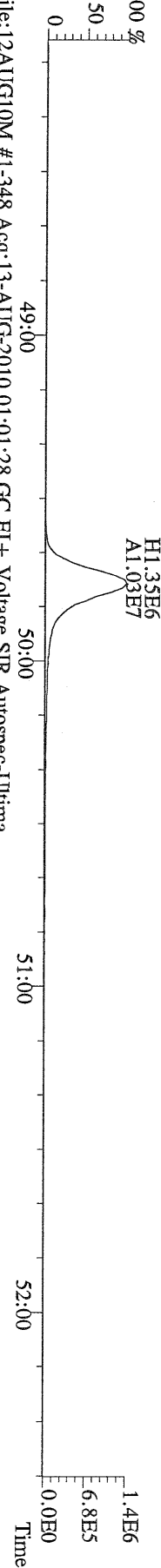
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 459.7348 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:P.CDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



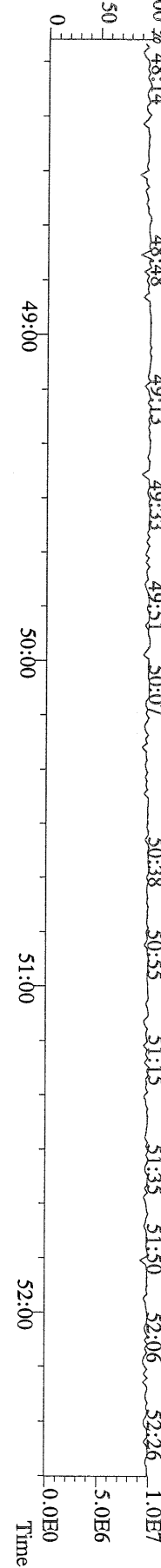
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 469.7780 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:P.CDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



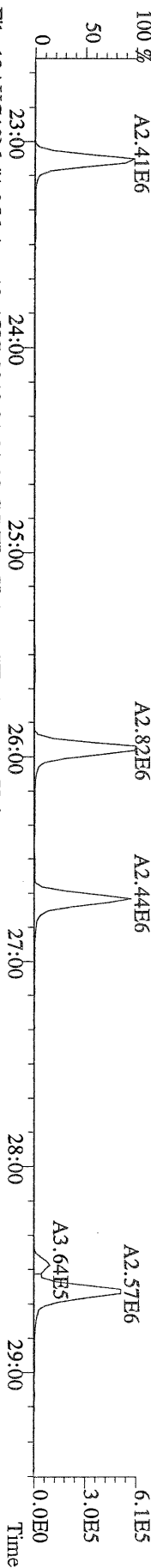
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 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



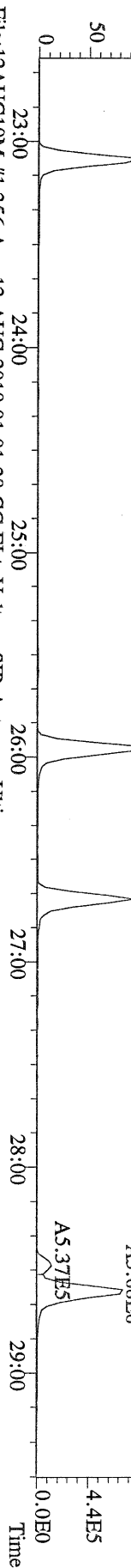
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 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



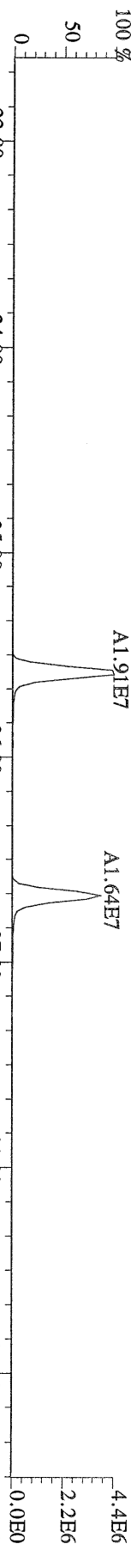
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 303.9016 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



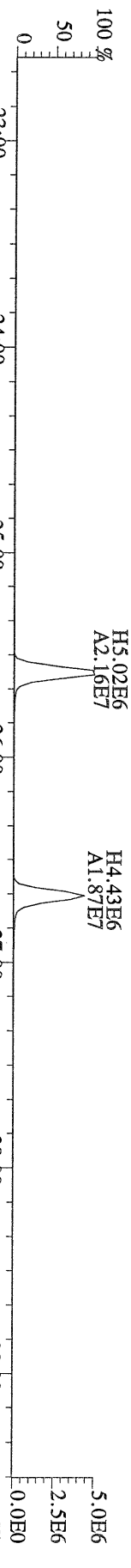
File:12AUG10M #1-356 Acq:13-AUG-2010 01:01:28 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



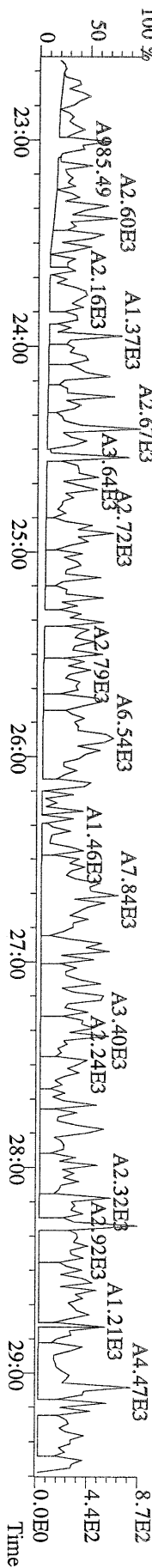
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 315.9419 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



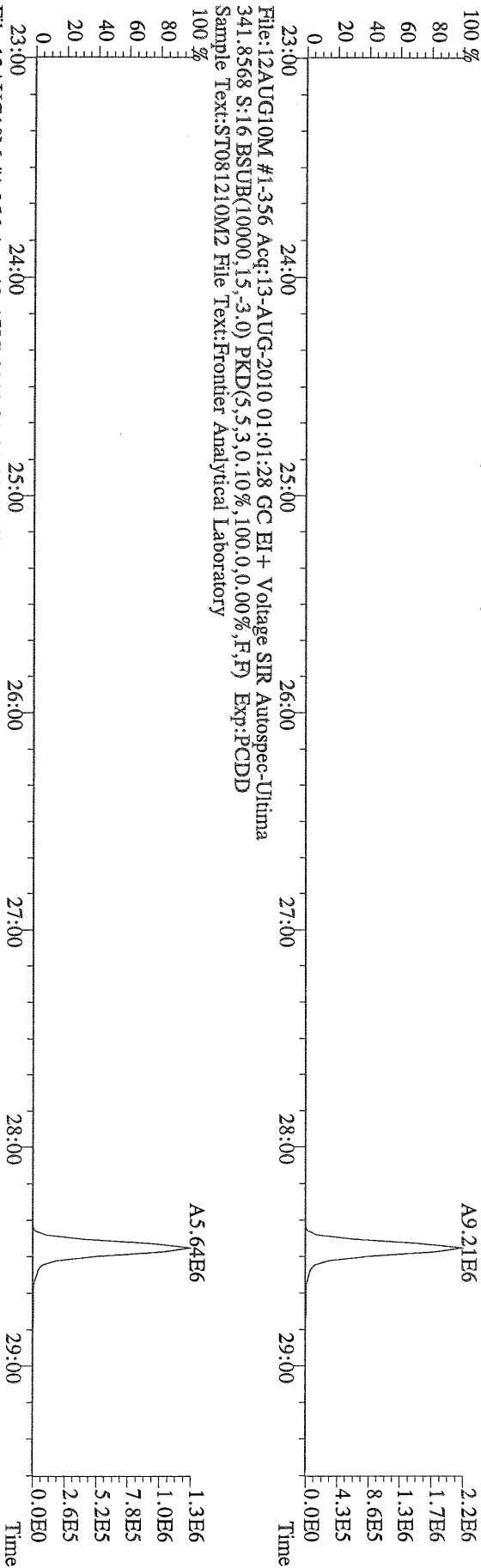
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 317.9389 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



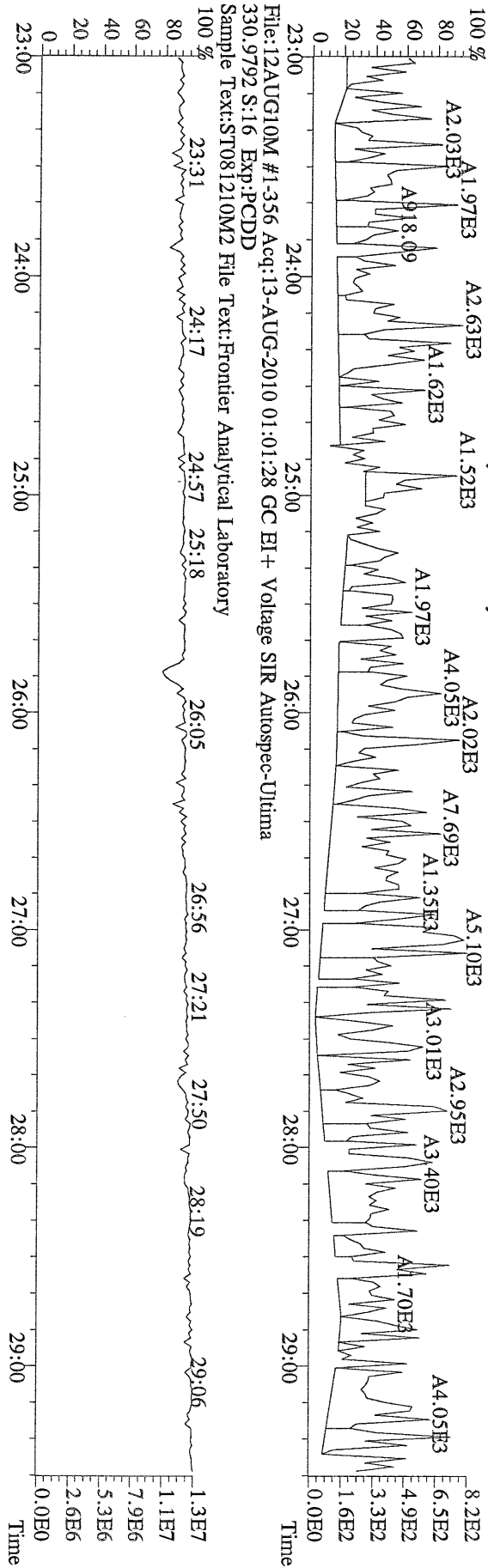
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 375.8364 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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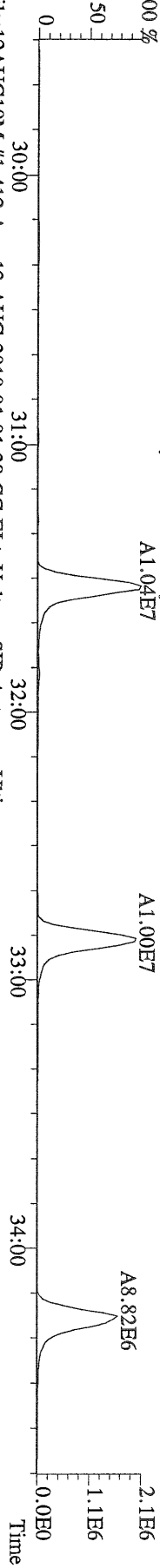
File:12AUG10M #1-356 Acq:13-AUG-2010 01:01:28 GC EI+ Voltage SIR Autospec-Ultime
 339.8597 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



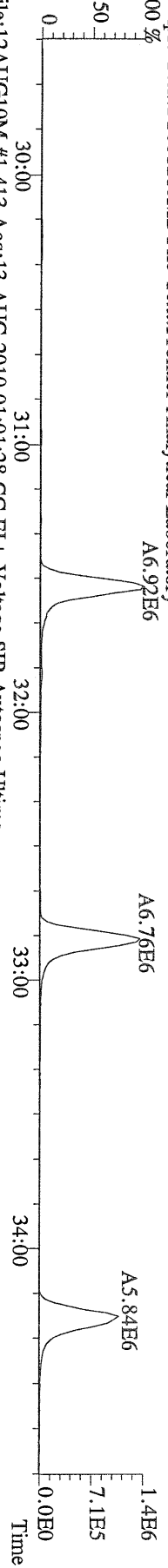
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 409.7974 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



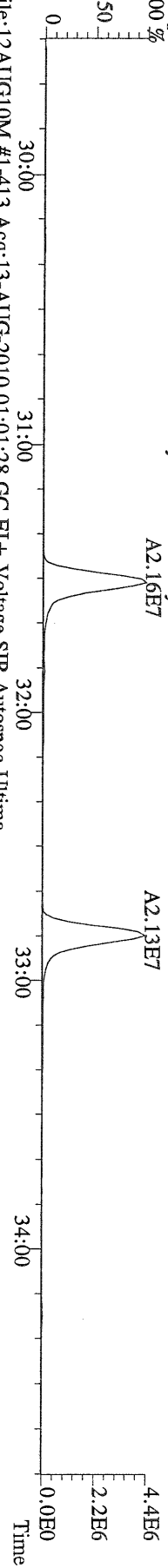
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 339.8597 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



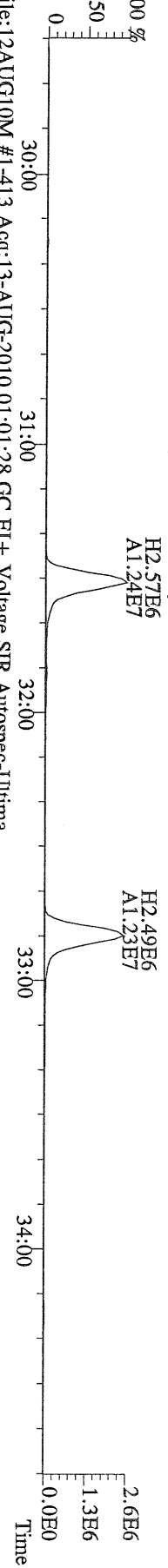
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 341.8568 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



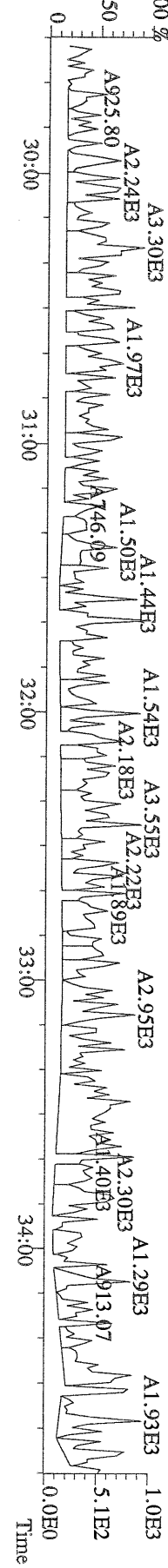
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 351.9000 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



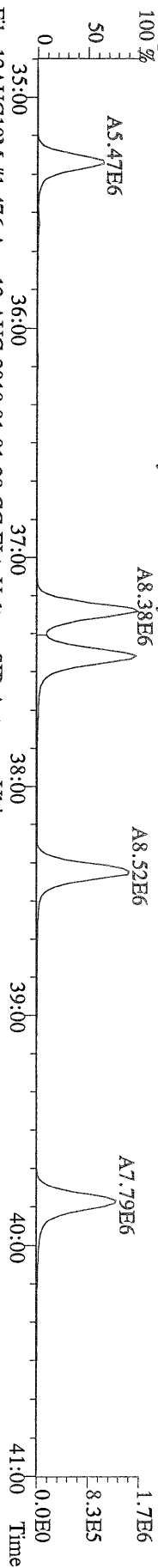
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 353.8970 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



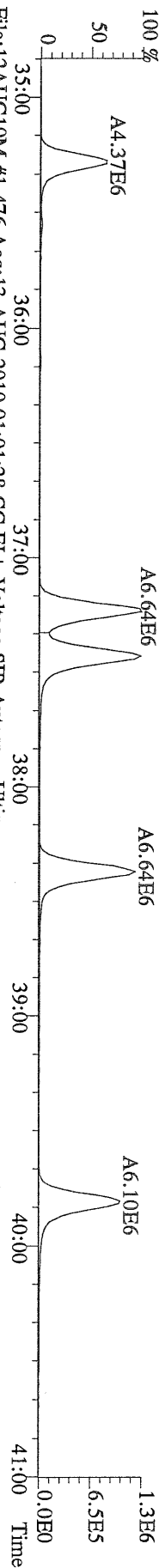
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 409.7974 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



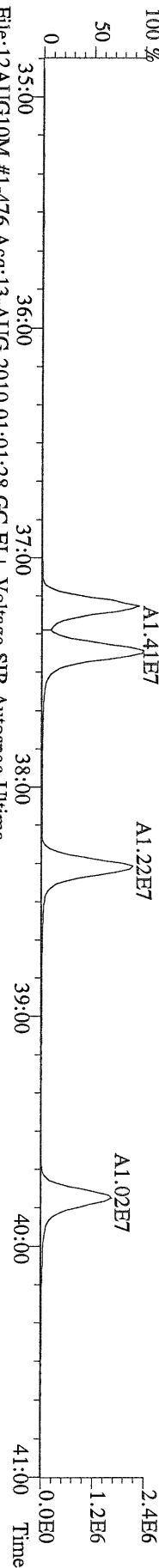
File:12AUG10M #1-476 Acq:13-AUG-2010 01:01:28 GC EI+ Voltage SIR Autospec-Utima
373.8207 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



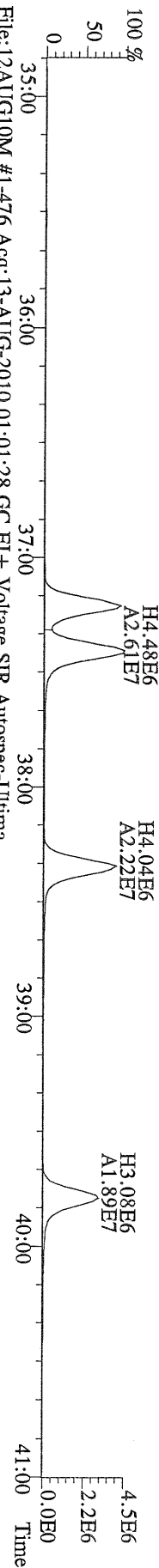
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375.8178 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



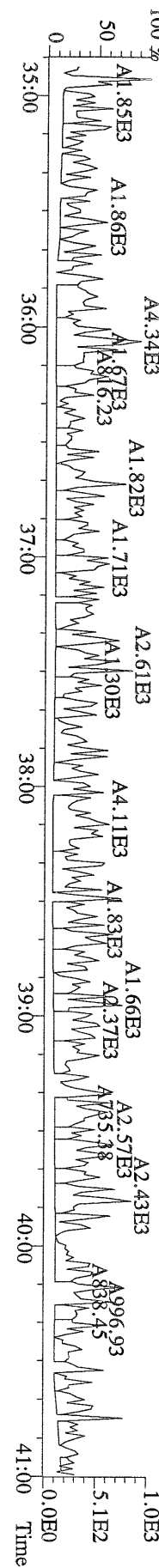
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383.8639 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
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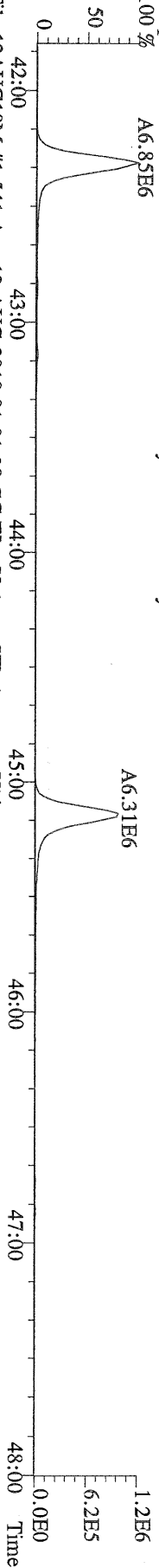
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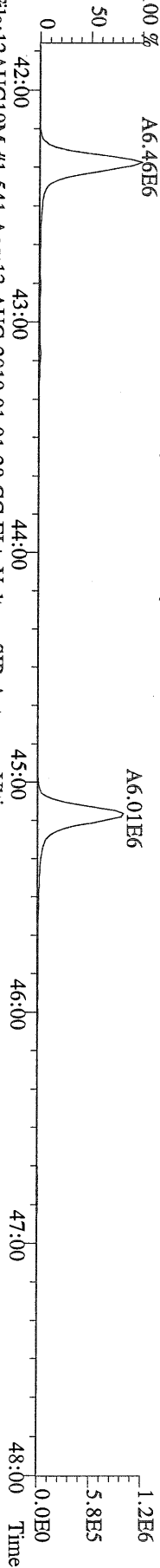
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Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



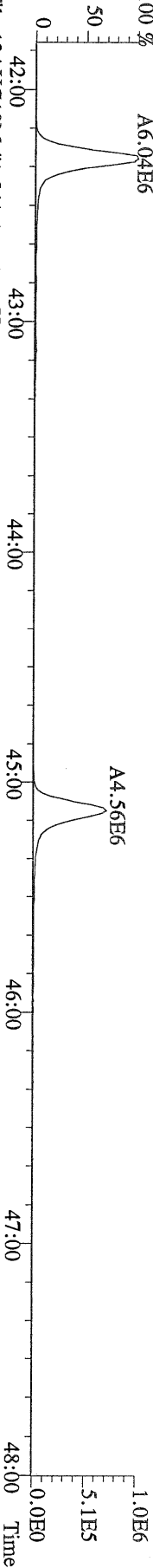
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407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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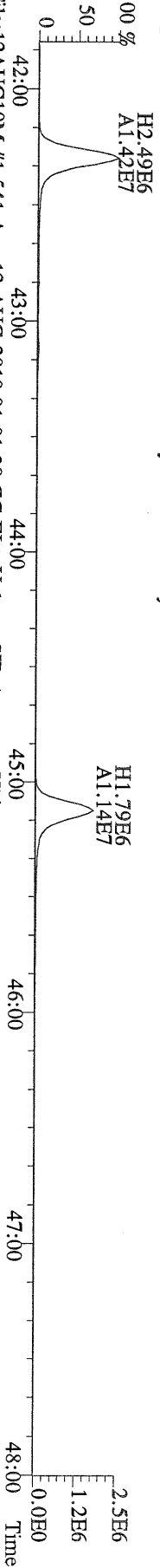
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409.7788 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



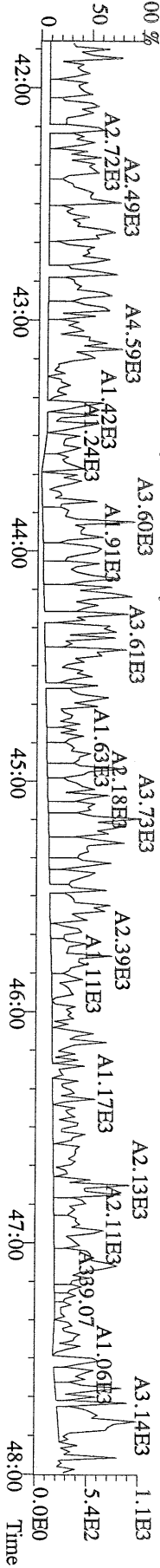
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417.8253 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



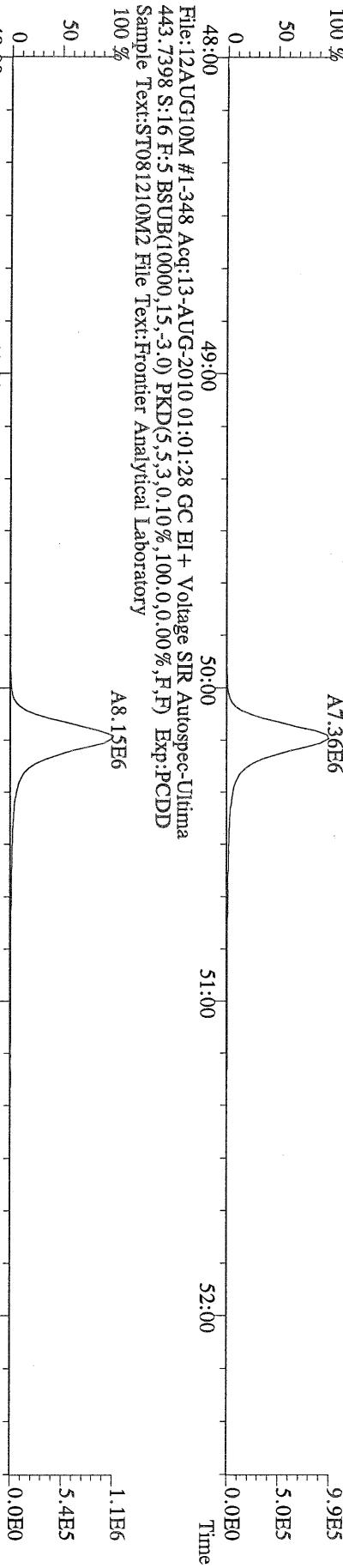
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419.8220 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



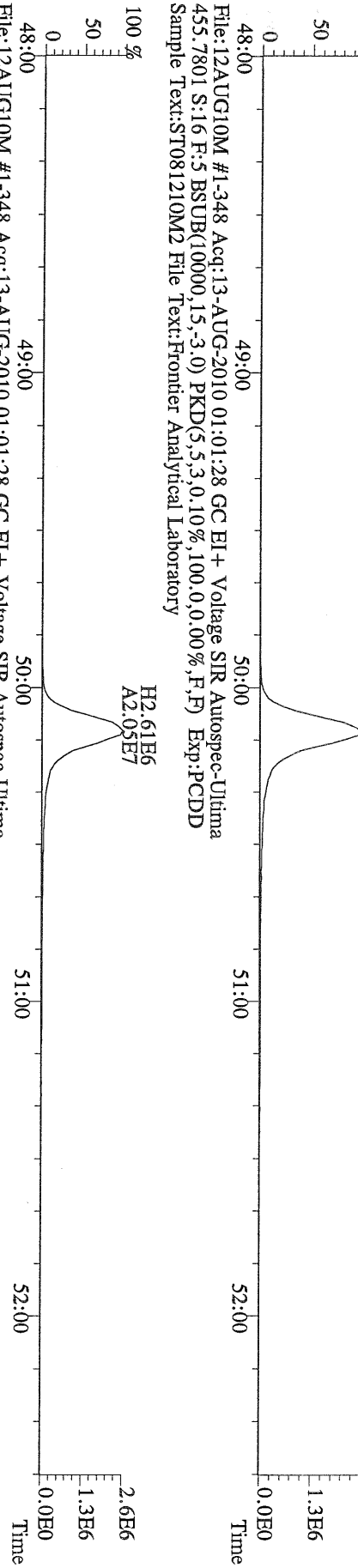
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479.7165 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



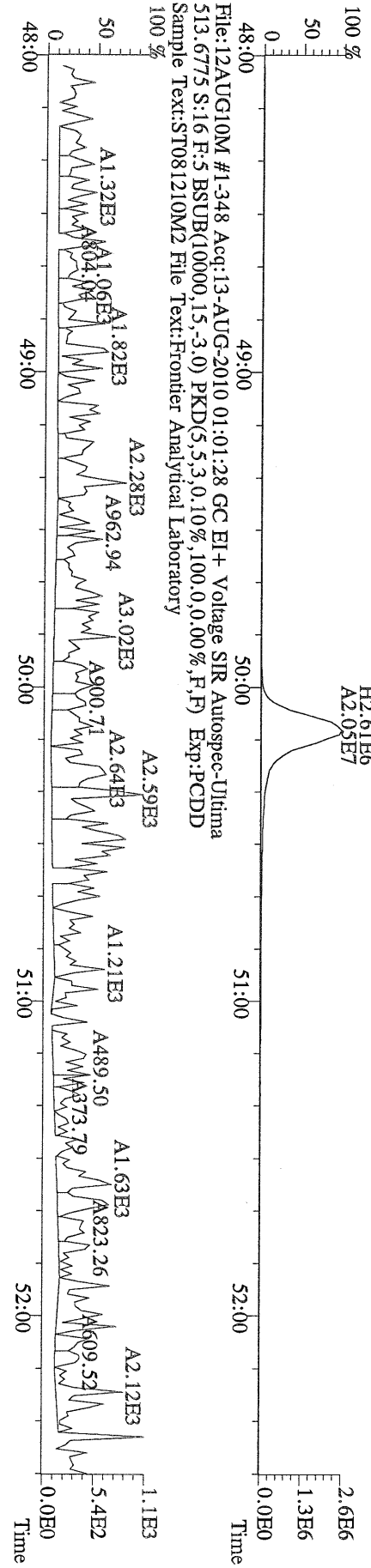
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441.7428 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory



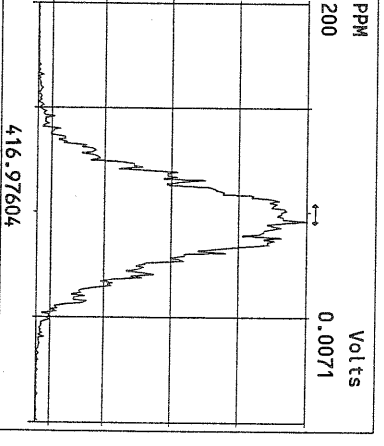
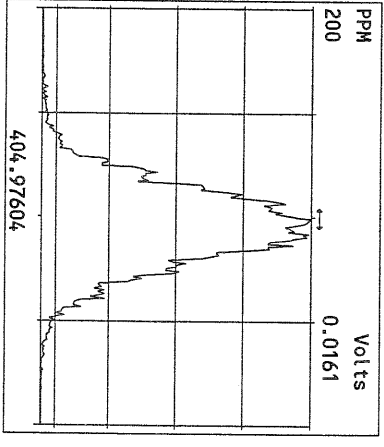
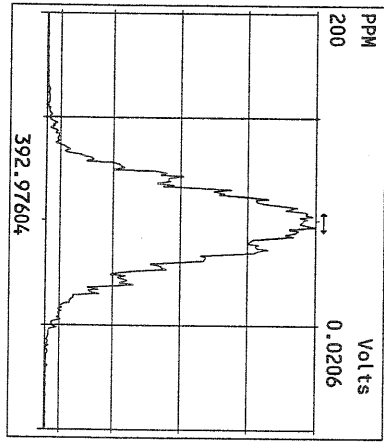
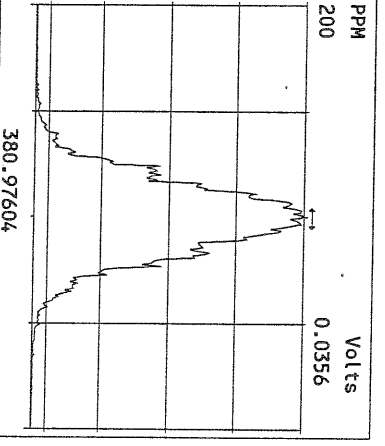
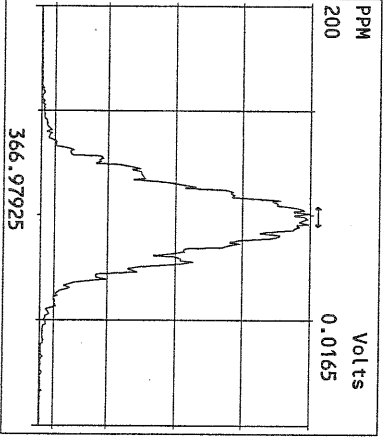
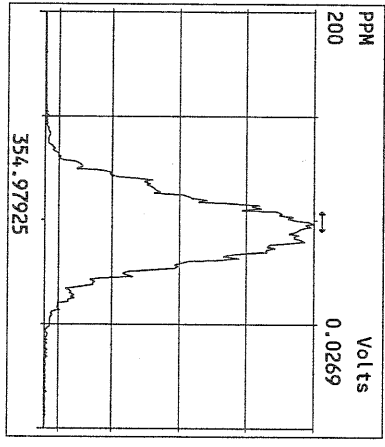
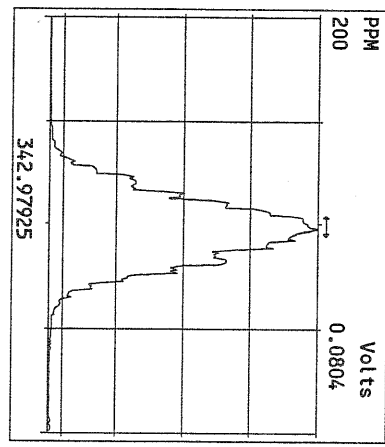
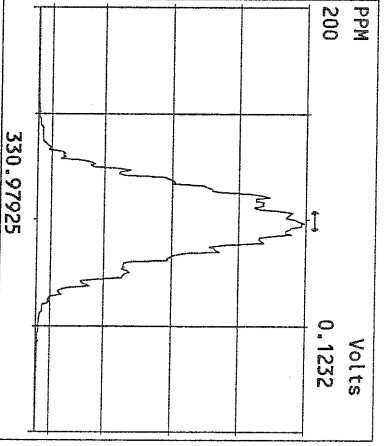
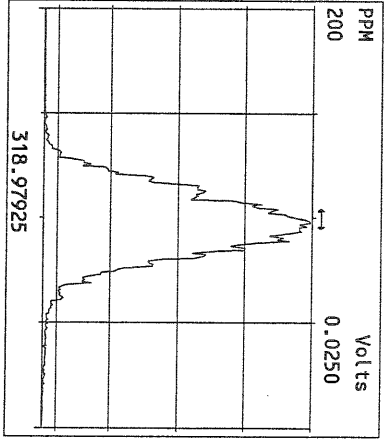
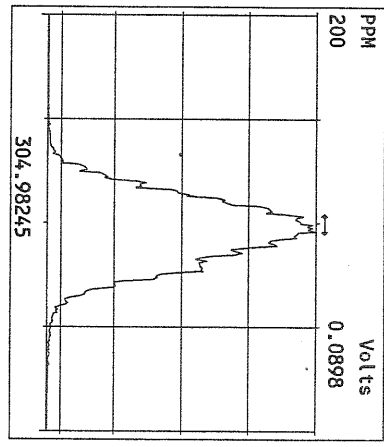
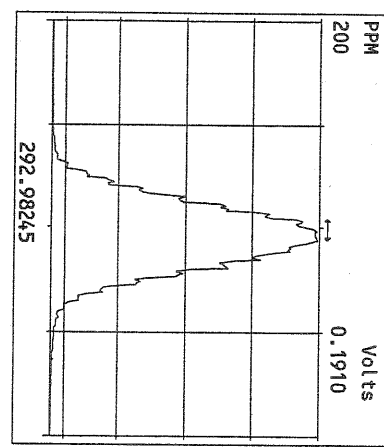
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455.7831 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory

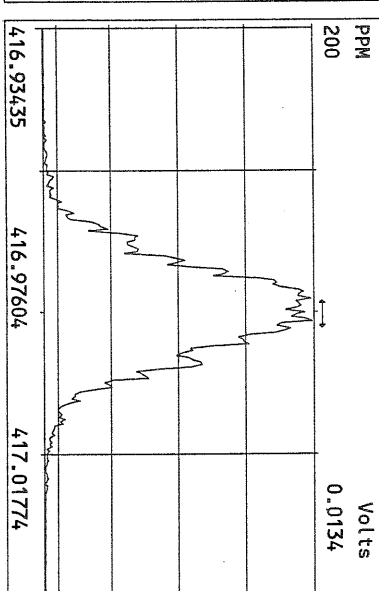
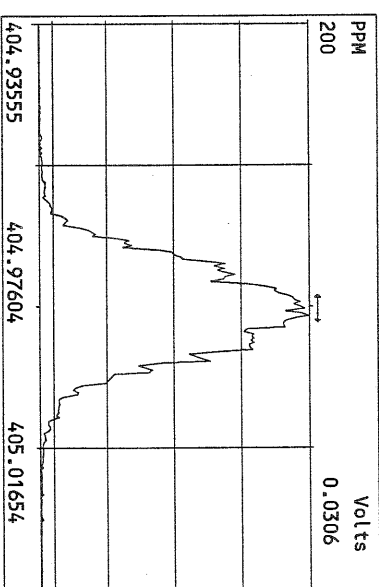
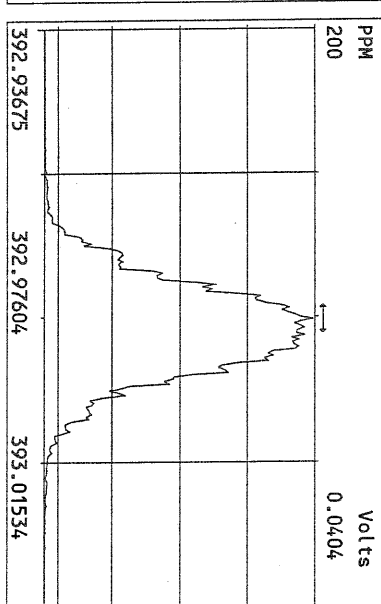
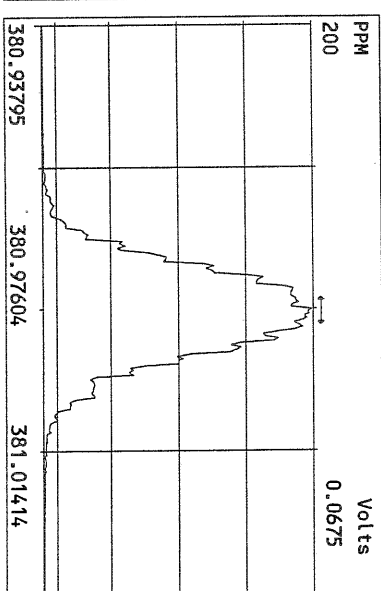
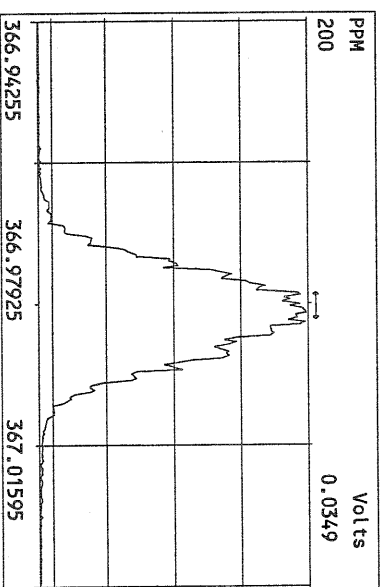
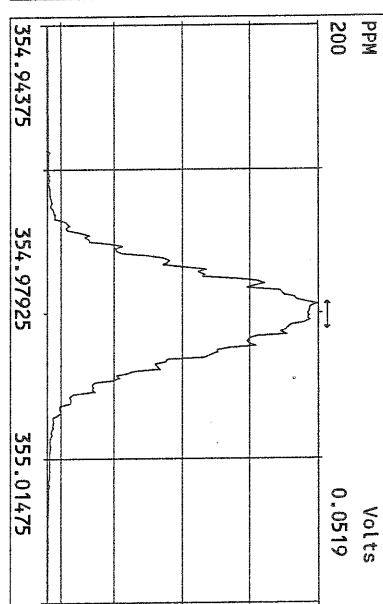
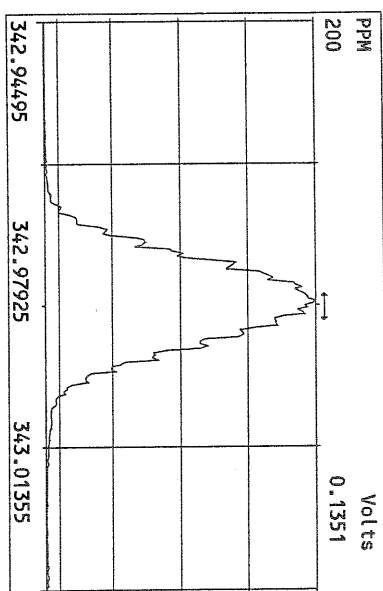
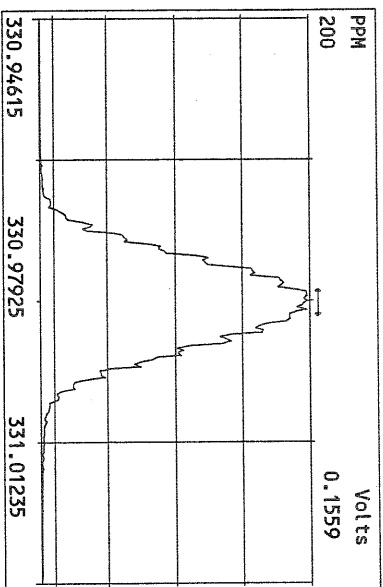


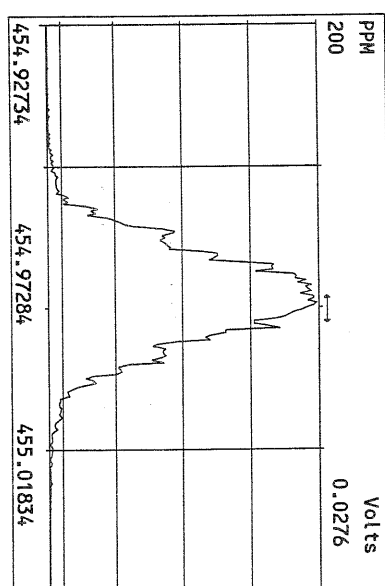
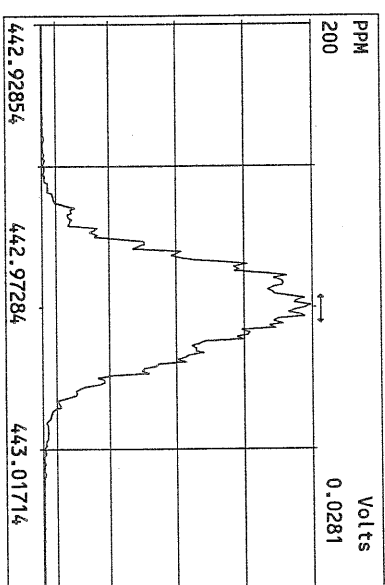
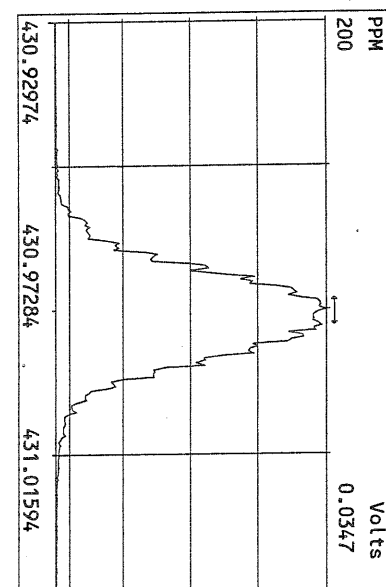
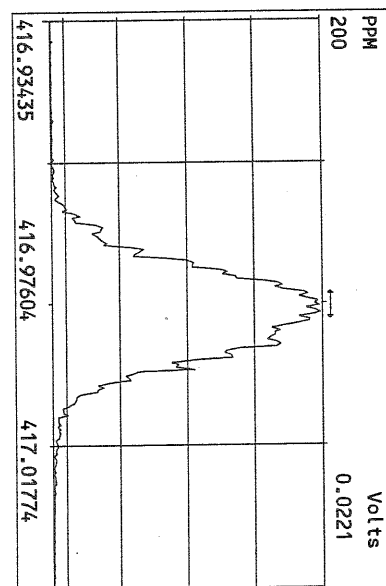
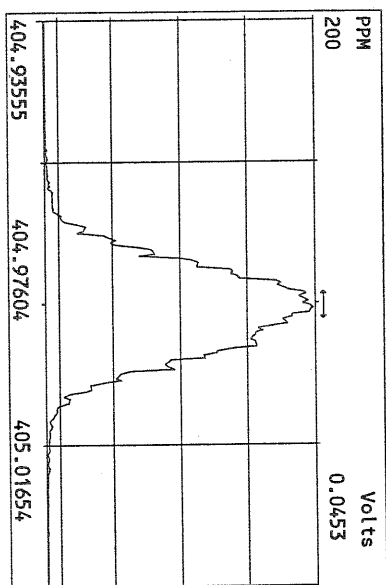
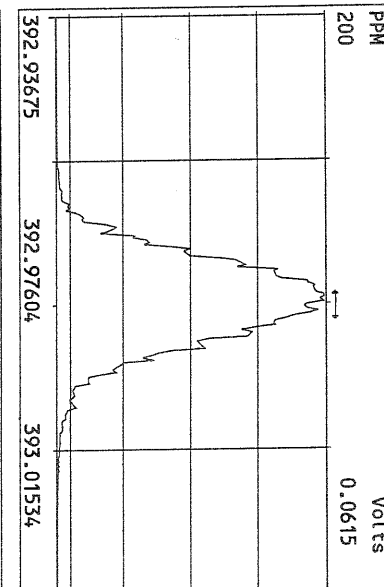
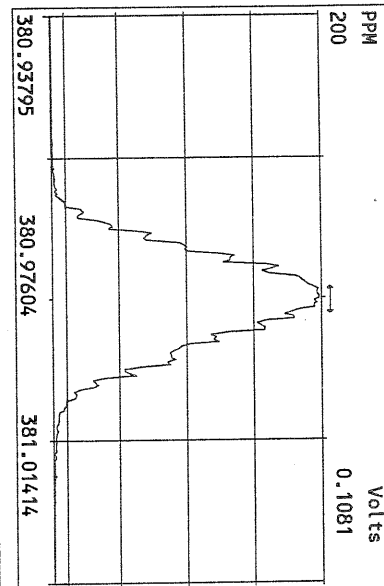
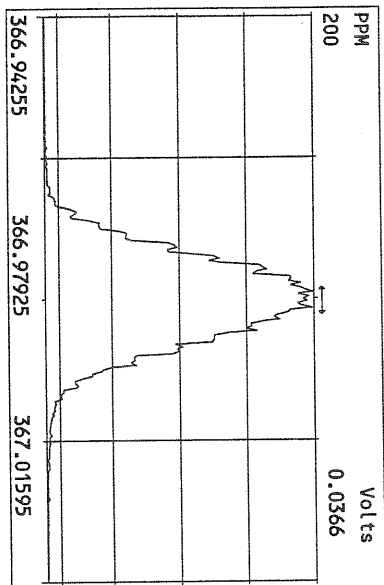
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Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory

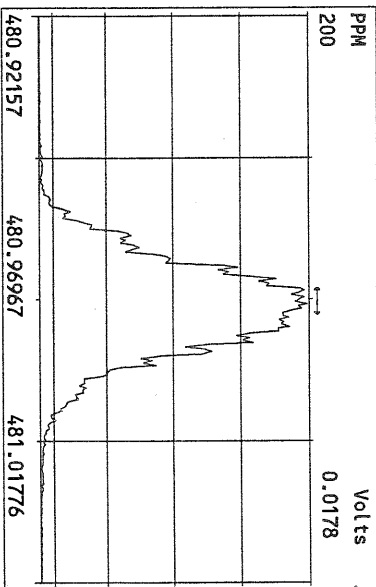
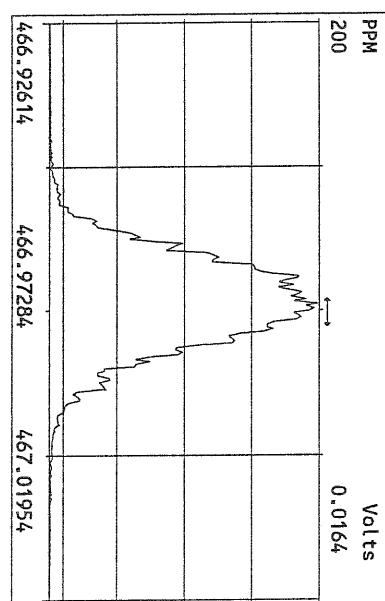
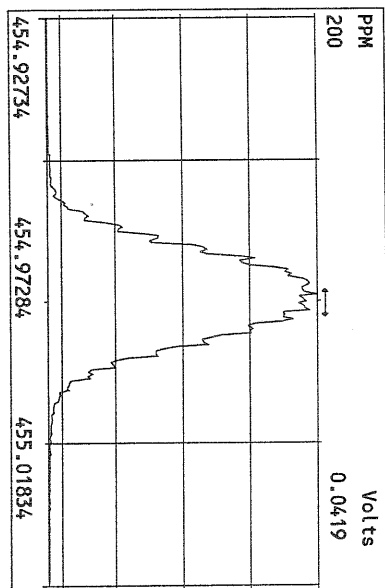
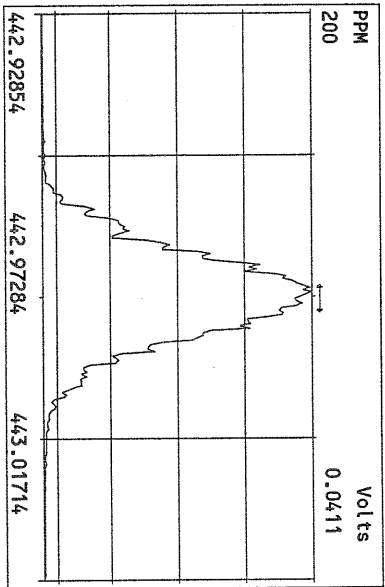
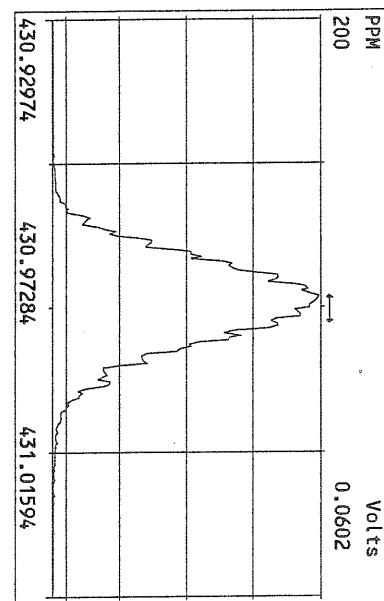
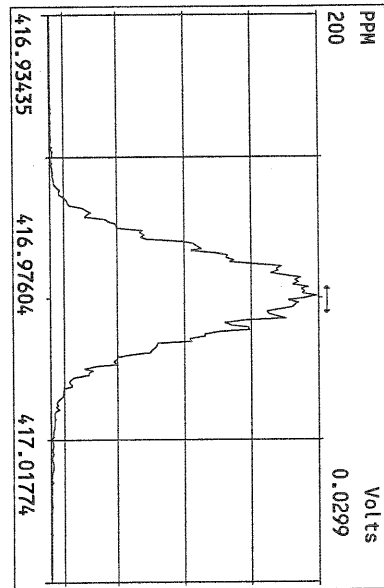
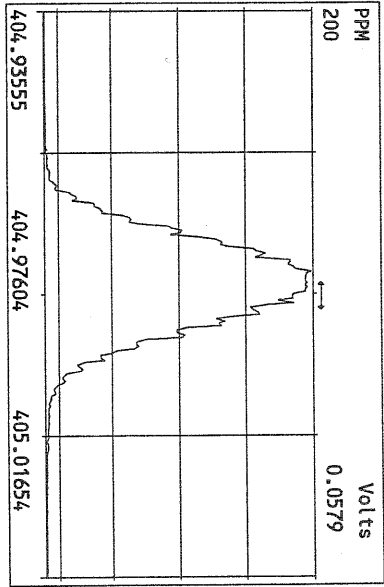


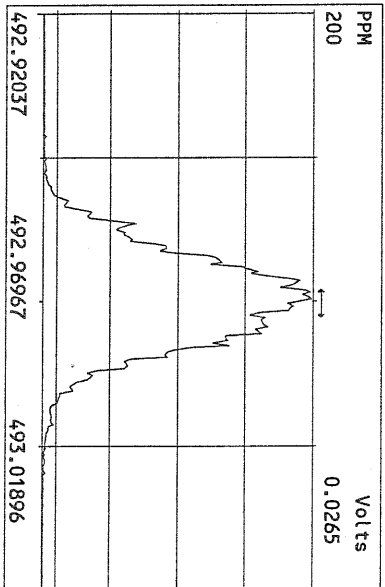
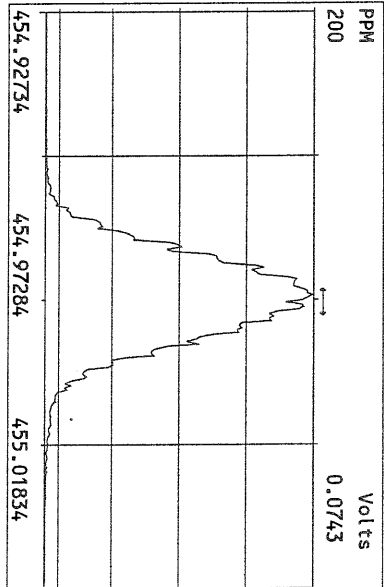
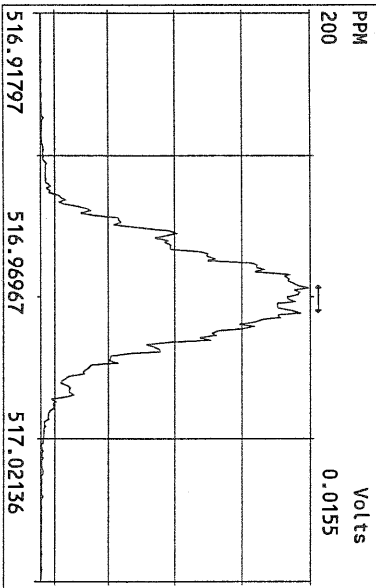
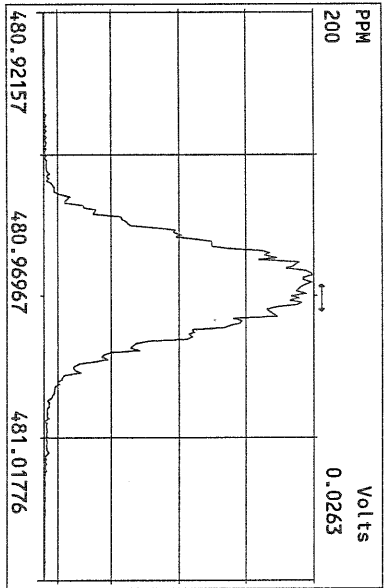
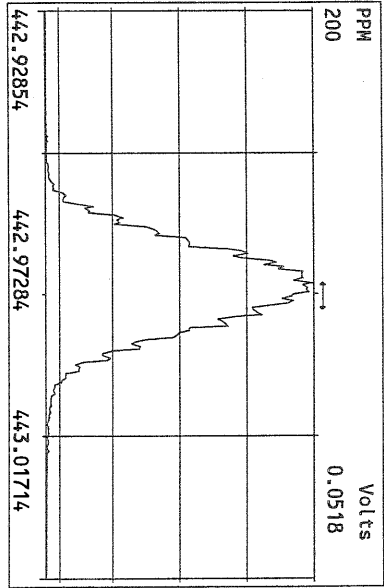
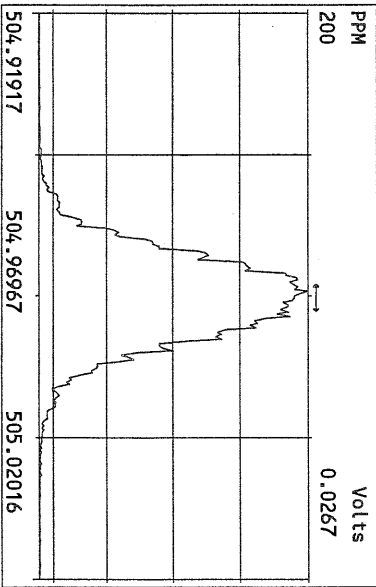
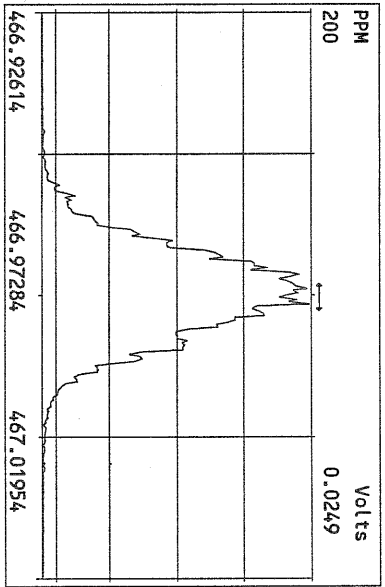
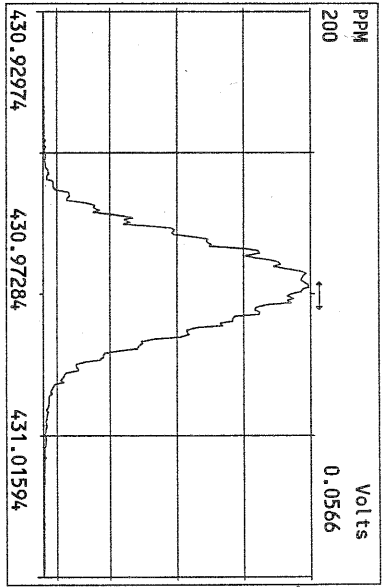
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513.6775 S:16 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M2 File Text:Frontier Analytical Laboratory











FORM 4A
 PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 12AUG10M Sam:24

Analysis Date: 13-AUG-10 08:24:11

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	0.74	0.65-0.89	y	10.6	7.80 - 12.9 ✓
1,2,3,7,8-PeCDD	M+2/M+4	1.71	1.32-1.78	y	53.1	39.0 - 65.0 ✓
1,2,3,4,7,8-HxCDD	M+2/M+4	1.42	1.05-1.43	y	56.2	39.0 - 64.0 ✓
1,2,3,6,7,8-HxCDD	M+2/M+4	1.42	1.05-1.43	y	54.2	39.0 - 64.0 ✓
1,2,3,7,8,9-HxCDD	M+2/M+4	1.41	1.05-1.43	y	57.5	41.0 - 61.0 ✓
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.02	0.88-1.20	y	51.8	43.0 - 58.0 ✓
OCDD	M+2/M+4	0.99	0.76-1.02	y	112	79.0 - 126 ✓
2,3,7,8-TCDF	M/M+2	0.69	0.65-0.89	y	10.6	8.40 - 12.0 ✓
1,2,3,7,8-PeCDF	M+2/M+4	1.53	1.32-1.78	y	55.4	41.0 - 60.0 ✓
2,3,4,7,8-PeCDF	M+2/M+4	1.51	1.32-1.78	y	52.6	41.0 - 60.0 ✓
1,2,3,4,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	48.0	45.0 - 56.0 ✓
1,2,3,6,7,8-HxCDF	M+2/M+4	1.25	1.05-1.43	y	48.5	44.0 - 57.0 ✓
2,3,4,6,7,8-HxCDF	M+2/M+4	1.24	1.05-1.43	y	48.4	44.0 - 57.0 ✓
1,2,3,7,8,9-HxCDF	M+2/M+4	1.29	1.05-1.43	y	49.0	45.0 - 56.0 ✓
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.08	0.88-1.20	y	47.3	45.0 - 55.0 ✓
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.05	0.88-1.20	y	48.9	43.0 - 58.0 ✓
OCDF	M+2/M+4	0.91	0.76-1.02	y	103	63.0 - 159 ✓

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

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

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

Analyst: Date: 8/13/10

FORM 4B
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 12AUG10M Sam:24

Analysis Date: 13-AUG-10 08:24:11

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	0.85	0.65-0.89	y	101	82.0 - 121 ✓
13C-1,2,3,7,8-PeCDD	M+2/M+4	1.73	1.32-1.78	y	114	62.0 - 160 ✓
13C-1,2,3,4,7,8-HxCDD	M+2/M+4	1.31	1.05-1.43	y	102	85.0 - 117 ✓
13C-1,2,3,6,7,8-HxCDD	M+2/M+4	1.33	1.05-1.43	y	97.8	85.0 - 118 ✓
13C-1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	98.4	72.0 - 138 ✓
13C-OCDD	M+2/M+4	0.93	0.76-1.02	y	185	96.0 - 415 ✓
13C-2,3,7,8-TCDF	M/M+2	0.87	0.65-0.89	y	102	71.0 - 140 ✓
13C-1,2,3,7,8-PeCDF	M+2/M+4	1.76	1.32-1.78	y	106	76.0 - 130 ✓
13C-2,3,4,7,8-PeCDF	M+2/M+4	1.74	1.32-1.78	y	111	77.0 - 130 ✓
13C-1,2,3,4,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	123	76.0 - 131 ✓
13C-1,2,3,6,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	115	70.0 - 143 ✓
13C-2,3,4,6,7,8-HxCDF	M/M+2	0.53	0.43-0.59	y	121	73.0 - 137 ✓
13C-1,2,3,7,8,9-HxCDF	M/M+2	0.54	0.43-0.59	y	123	74.0 - 135 ✓
13C-1,2,3,4,6,7,8-HpCDF	M/M+2	0.42	0.37-0.51	y	116	78.0 - 129 ✓
13C-1,2,3,4,7,8,9-HpCDF	M/M+2	0.42	0.37-0.51	y	117	77.0 - 129 ✓
13C-OCDF	M+2/M+4	0.99	0.76-1.02	y	207	96.0 - 415 ✓
CLEANUP STANDARD (4)						
37Cl-2,3,7,8-TCDD					10.0	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: 8/13/10

USEPA - ITD

FORM 6A
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5


Analysis Date: 13-AUG-10 08:24:11

CS3 or VER Data Filename: 12AUG10M

Sam:24

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	1.000	0.999-1.002 ✓
2,3,4,7,8-PeCDF	13C-2,3,4,7,8-PeCDF	1.000	0.999-1.002 ✓
LABELED COMPOUNDS			
37Cl-2,3,7,8-TCDD	13C-1,2,3,4-TCDD	1.023	0.989-1.052 ✓
13C-2,3,7,8-TCDD		1.022	0.976-1.043 ✓
13C-2,3,7,8-TCDF		0.994	0.923-1.103 ✓
13C-1,2,3,7,8-PeCDD		1.239	1.000-1.567 ✓
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203 ✓
13C-2,3,4,7,8-PeCDF		1.223	0.923-1.303 ✓

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

Analyst: Date: 8/13/10

USEPA - ITD

FORM 6B
PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 13-AUG-10 08:24:11

CS3 or VER Data Filename: 12AUG10M

Sam:24

NATIVE ANALYTES	RETENTION TIME REFERENCE	RRT	RRT QC LIMITS (1)
1,2,3,4,7,8-HxCDD	13C-1,2,3,4,7,8-HxCDD	1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.000	0.998-1.004 ✓
1,2,3,7,8,9-HxCDD	13C-1,2,3,6,7,8-HxCDD	1.012	1.000-1.019 ✓
1,2,3,4,7,8-HxCDF	13C-1,2,3,4,7,8-HxCDF	1.001	0.999-1.001 ✓
1,2,3,6,7,8-HxCDF	13C-1,2,3,6,7,8-HxCDF	1.001	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	1.000	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDD	13C-1,2,3,4,6,7,8-HpCDD	1.001	0.999-1.001 ✓
1,2,3,4,6,7,8-HpCDF	13C-1,2,3,4,6,7,8-HpCDF	1.001	0.999-1.001 ✓
1,2,3,4,7,8,9-HpCDF	13C-1,2,3,4,7,8,9-HpCDF	1.000	0.999-1.001 ✓
OCDD	13C-OCDD	1.000	0.999-1.001 ✓
OCDF	13C-OCDF	1.001	0.999-1.001 ✓
LABELED COMPOUNDS			
13C-1,2,3,4,7,8-HxCDD	13C-1,2,3,7,8,9-HxCDD	0.984	0.977-1.000 ✓
13C-1,2,3,6,7,8-HxCDD		0.989	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		1.015	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		1.151	1.057-1.154 ✓
13C-OCDD		1.269	1.032-1.311 ✓
13C-OCDF		1.279	1.000-1.311 ✓

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

Analyst: Date: 8/13/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:12AUG10M

Instrument: FAL3

GC: DB5

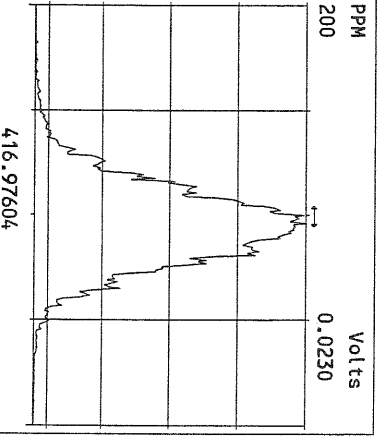
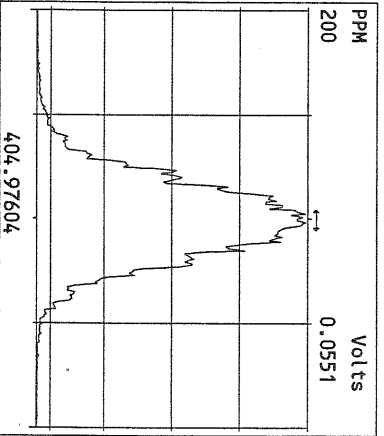
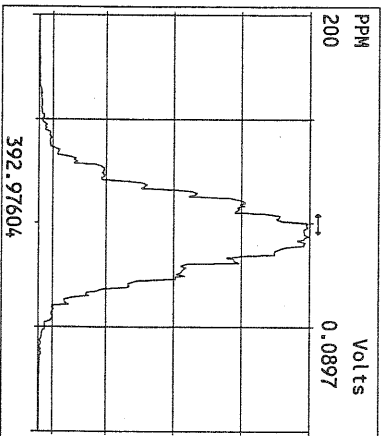
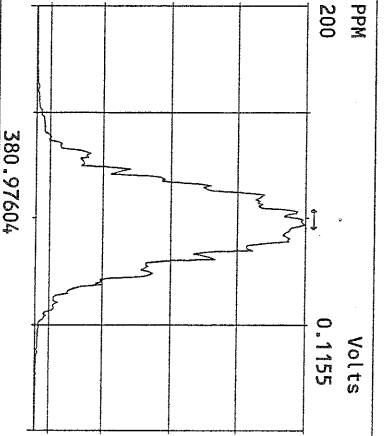
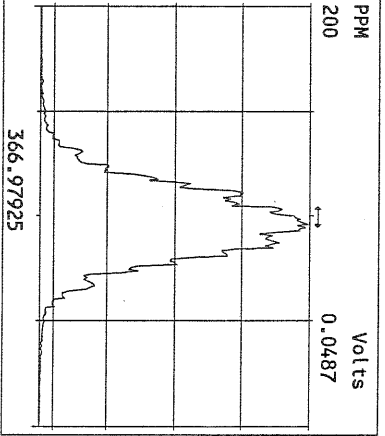
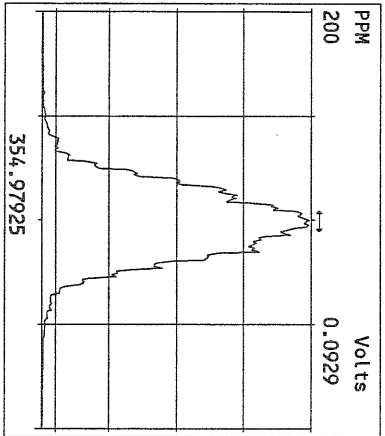
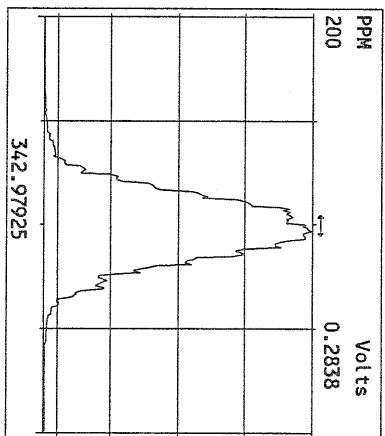
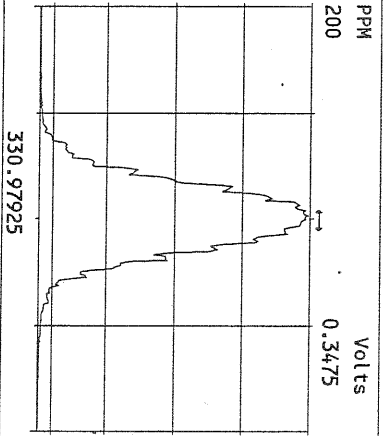
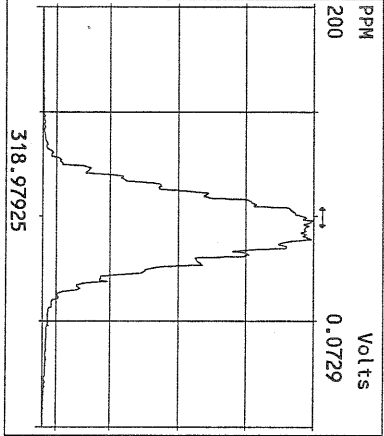
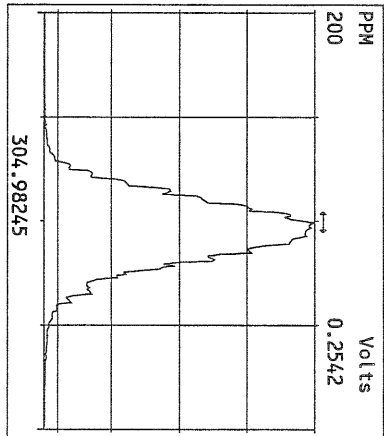
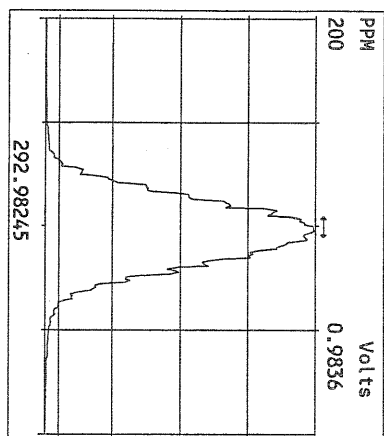
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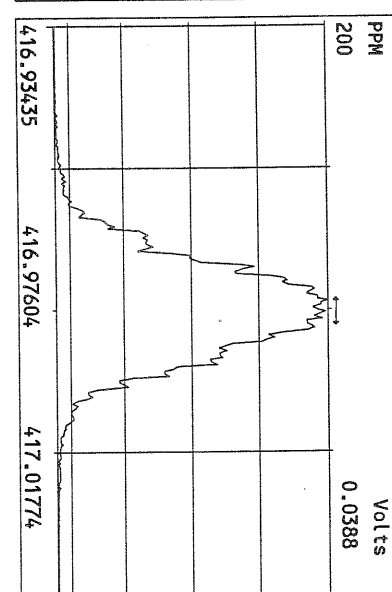
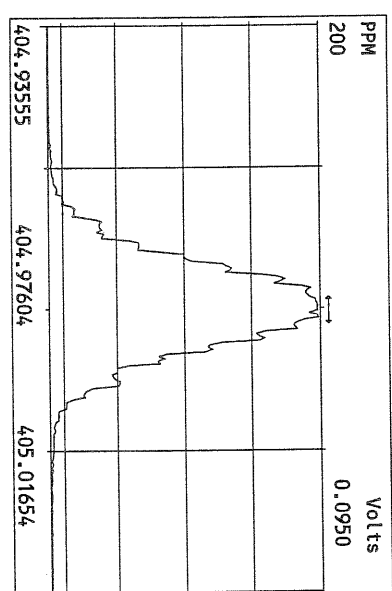
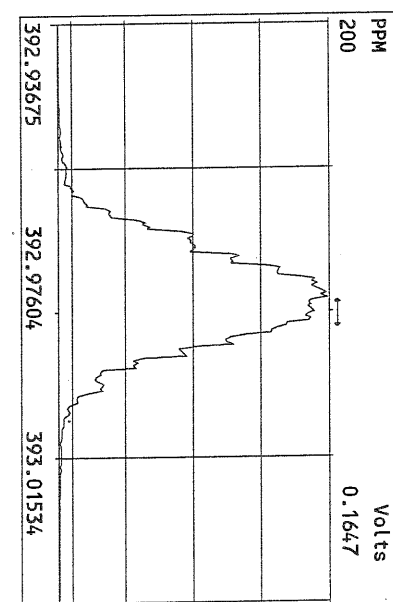
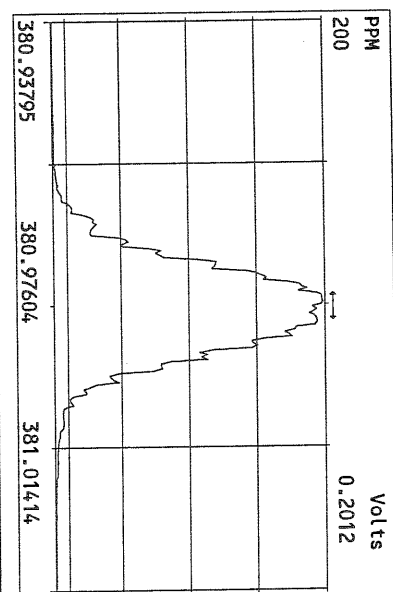
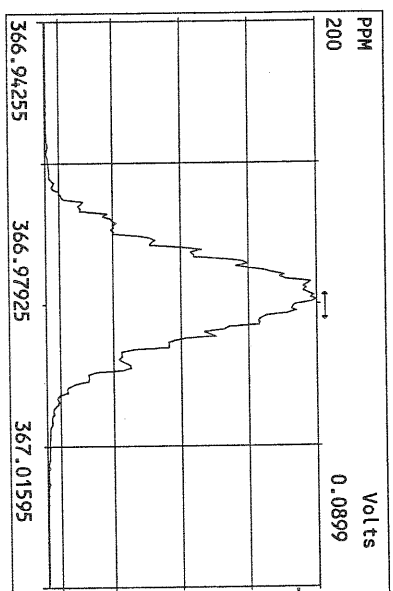
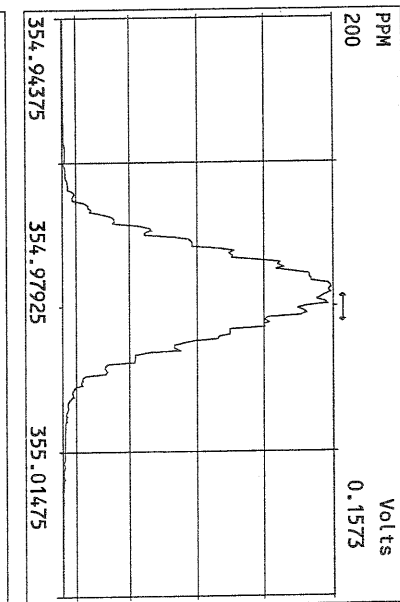
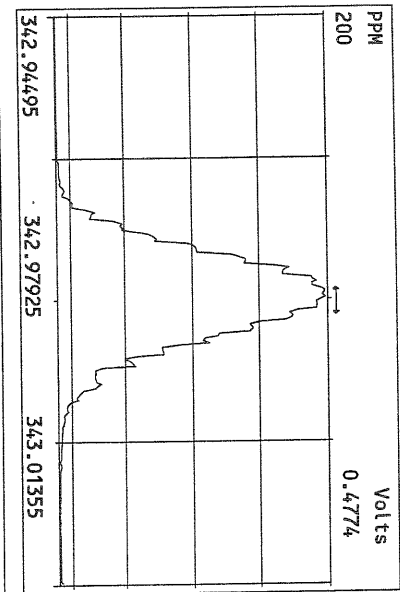
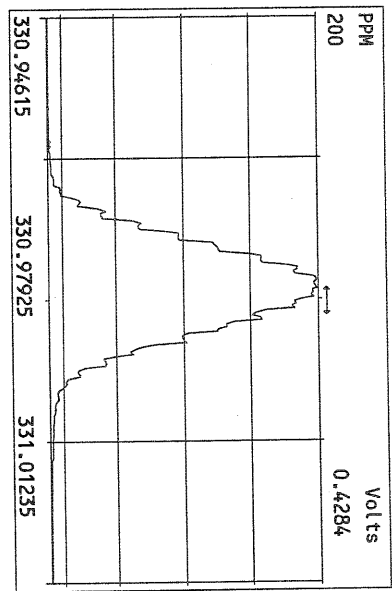
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12AUG10M	2	SB081210M1	Solvent Blank	12-AUG-10 12:06:13	ST081210M1 ST081210M2	TC
12AUG10M	3	6273-009-0001-SA	PSB07-1.5-2.0-072810	12-AUG-10 13:01:32	ST081010N1 ST081010N2	TC
12AUG10M	4	6273-011-0001-SA	PSB08-1.5-2.0-072810	12-AUG-10 13:56:54	ST081010N1 ST081010N2	TC
12AUG10M	5	2078-001-0001-OPR	OPR	12-AUG-10 14:52:16	ST081210M1 ST081210M2	TC
12AUG10M	6	2078-001-0001-MB	Method Blank	12-AUG-10 15:47:38	ST081210M1 ST081210M2	TC
12AUG10M	7	6269-008-0001-SA	PSB17-10-13-072810	12-AUG-10 16:43:05	ST081210M1 ST081210M2	TC
12AUG10M	8	6269-007-0001-SA	PSB17-4-6-072810	12-AUG-10 17:38:28	ST081210M1 ST081210M2	TC
12AUG10M	9	6269-006-0001-SA	PSB17-2-4-072810	12-AUG-10 18:33:55	ST081210M1 ST081210M2	TC
12AUG10M	10	6269-003-0001-SA	PSB14-2-4-072810	12-AUG-10 19:29:18	ST081210M1 ST081210M2	TC
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12AUG10M	12	6269-002-0001-SA	PSB14-1.5-2.0-072810	12-AUG-10 21:20:00	ST081210M1 ST081210M2	TC
12AUG10M	13	6269-004-0001-SA	PSB17-0-0.5-072810	12-AUG-10 22:15:22	ST081210M1 ST081210M2	TC
12AUG10M	14	6269-001-0001-SA	PSB14-0-.5-072810	12-AUG-10 23:10:40	ST081210M1 ST081210M2	TC
12AUG10M	15	SB081210M2	Solvent Blank	13-AUG-10 00:06:03	ST081210M1 ST081210M2	TC
12AUG10M	16	ST081210M2	1613 CS3 090918J	13-AUG-10 01:01:28	ST081210M2 ST081210M3	TC
12AUG10M	17	SB081210M4	Solvent Blank	13-AUG-10 01:56:52	ST081210M2 ST081210M3	TC
12AUG10M	18	6271-003-0001-SA	PSB13-2-4-072910	13-AUG-10 02:52:15	ST081210M2 ST081210M3	TC
12AUG10M	19	6271-002-0001-SA	PSB13-1.5-2-072910	13-AUG-10 03:47:38	ST081210M2 ST081210M3	TC
12AUG10M	20	6271-001-0001-SA	PSB13-0-0.5-072910	13-AUG-10 04:42:56	ST081210M2 ST081210M3	TC
12AUG10M	21	6279-001-0001-SA	201007300147	13-AUG-10 05:38:15	ST081210M2 ST081210M3	TC
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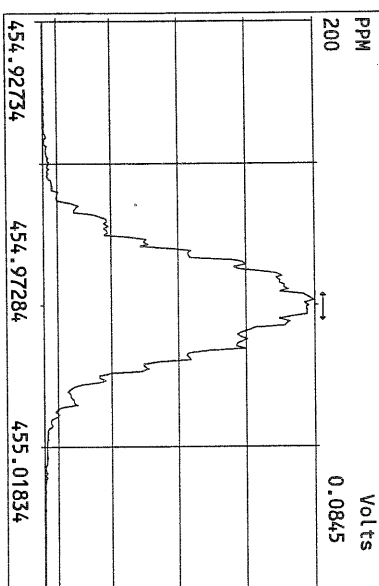
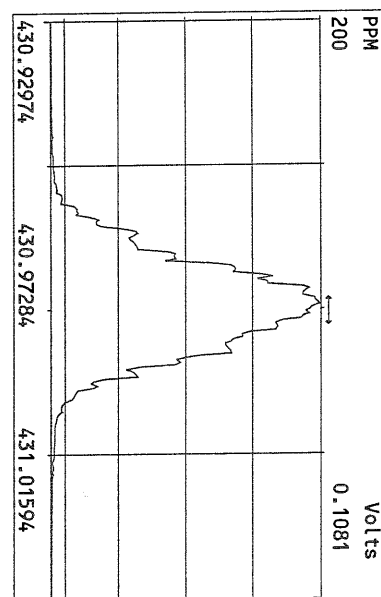
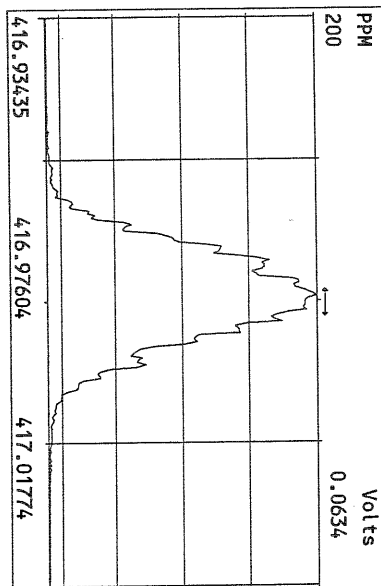
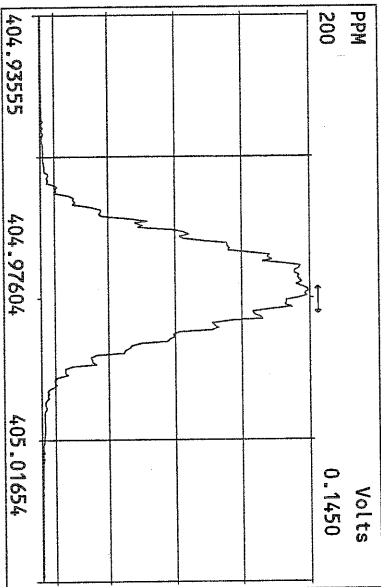
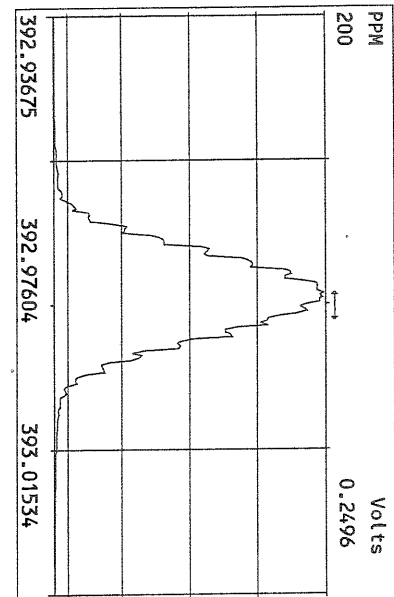
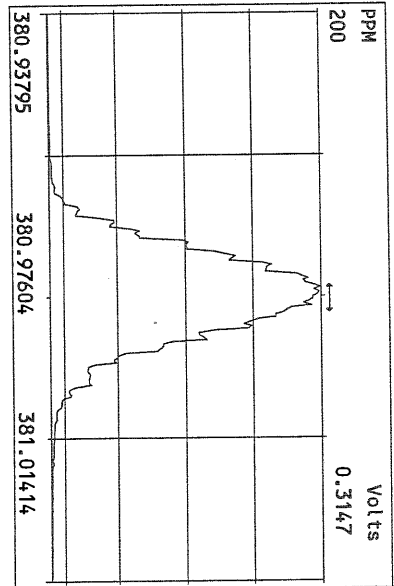
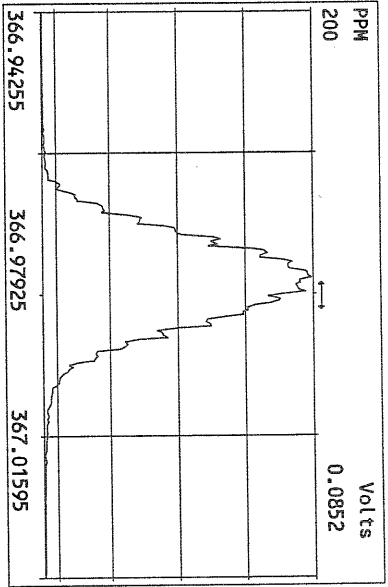
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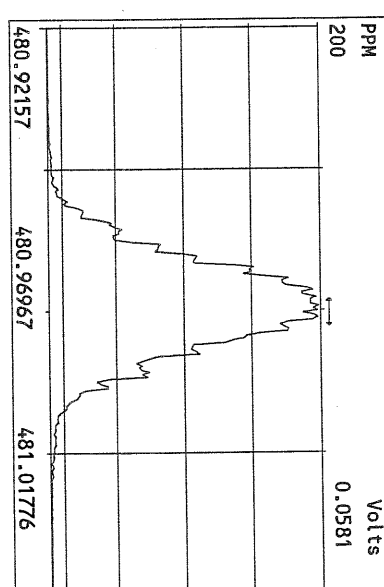
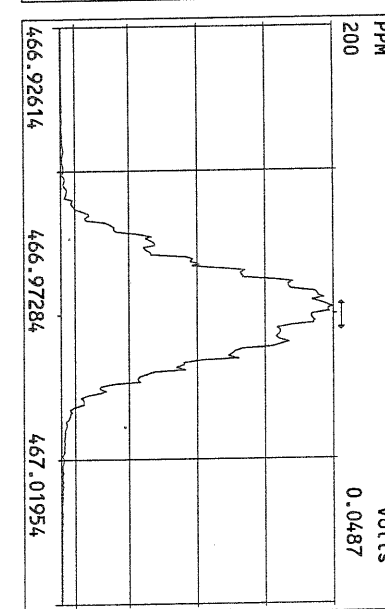
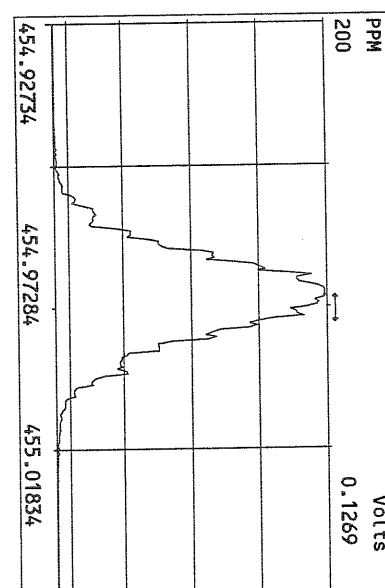
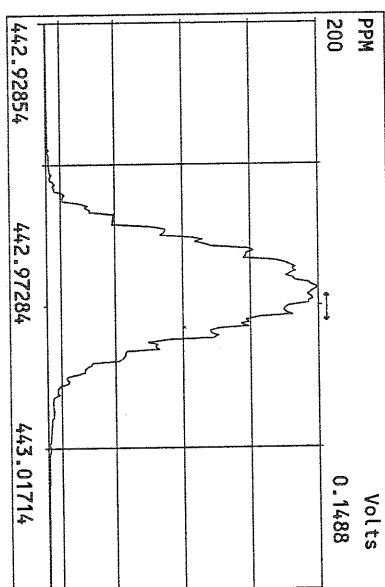
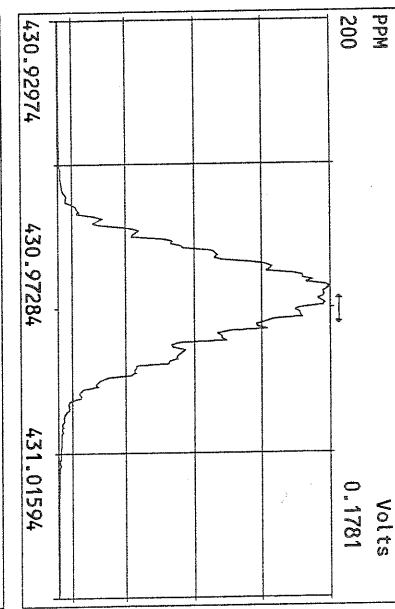
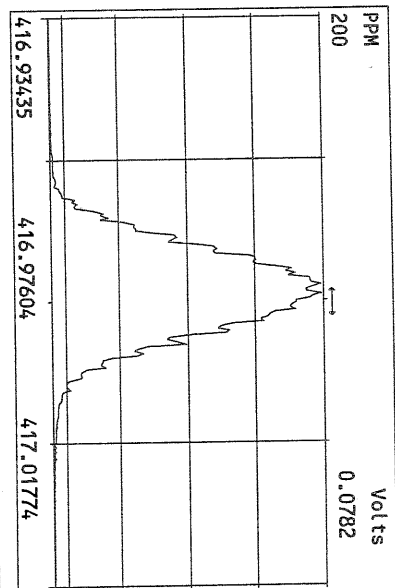
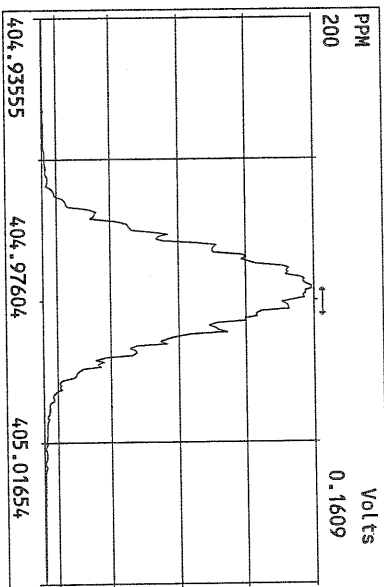
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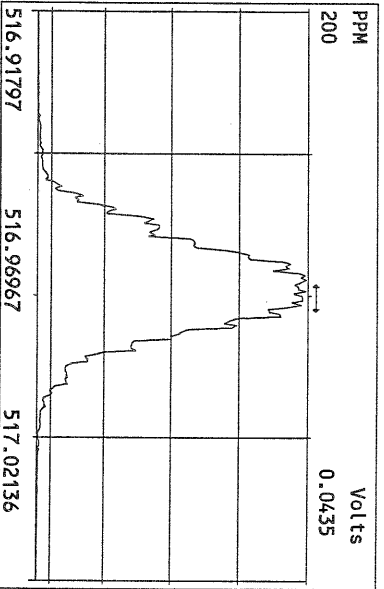
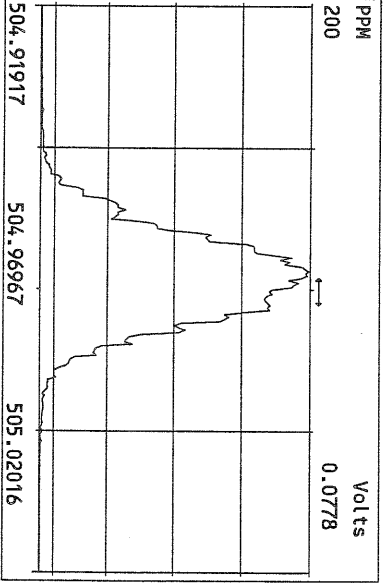
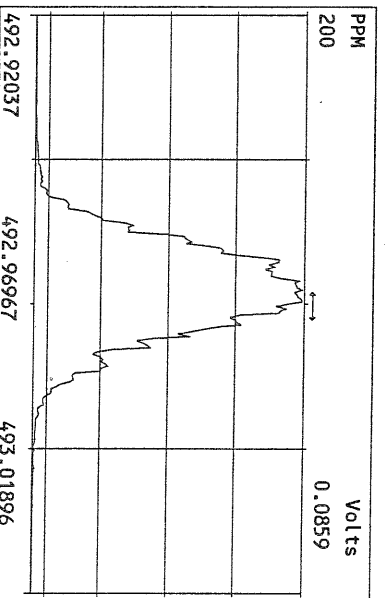
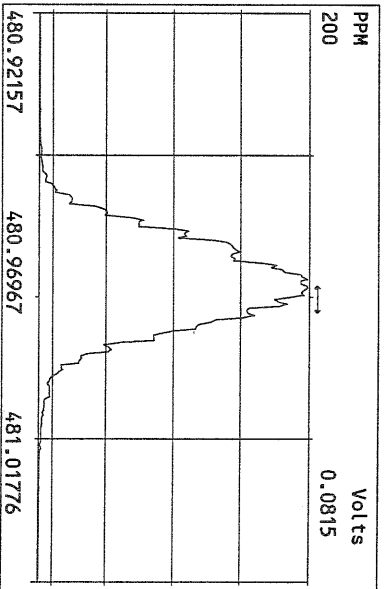
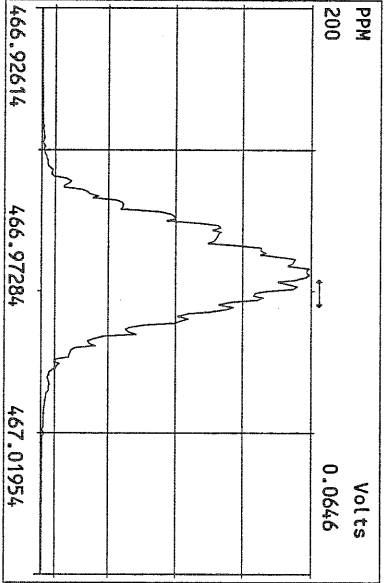
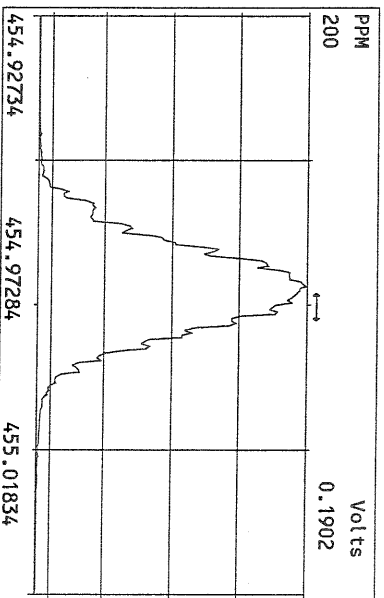
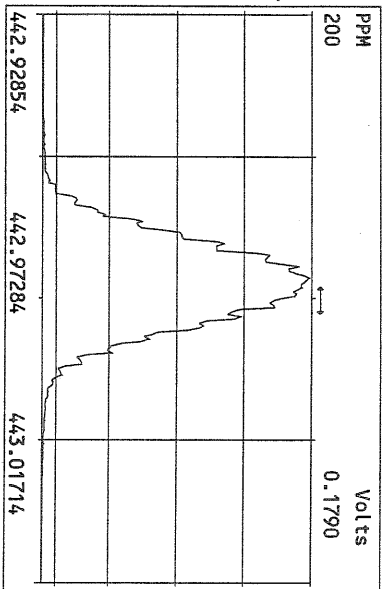
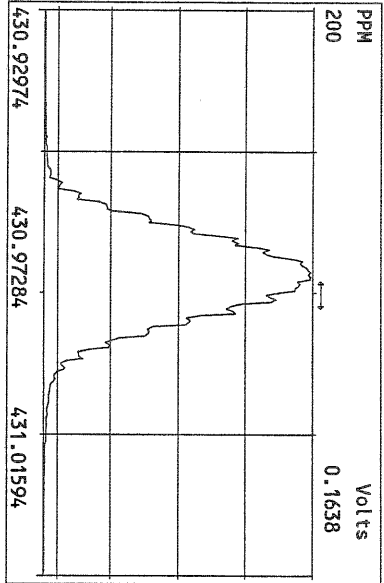




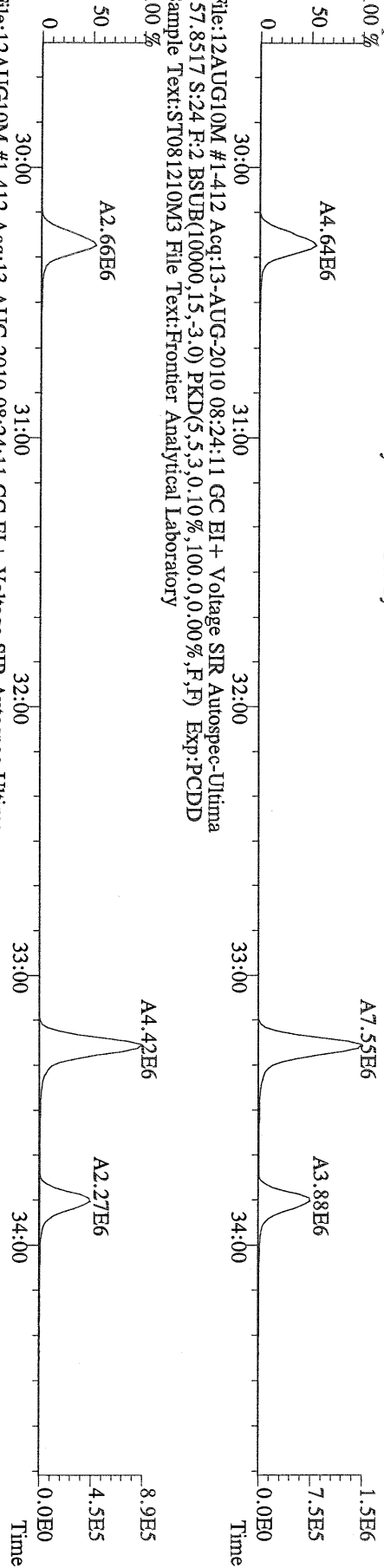


Peak Locate Examination: 12-AUG-2010:11:10 File: 12AUG10M
 Experiment: PCDD Function: 4 Reference: PFK

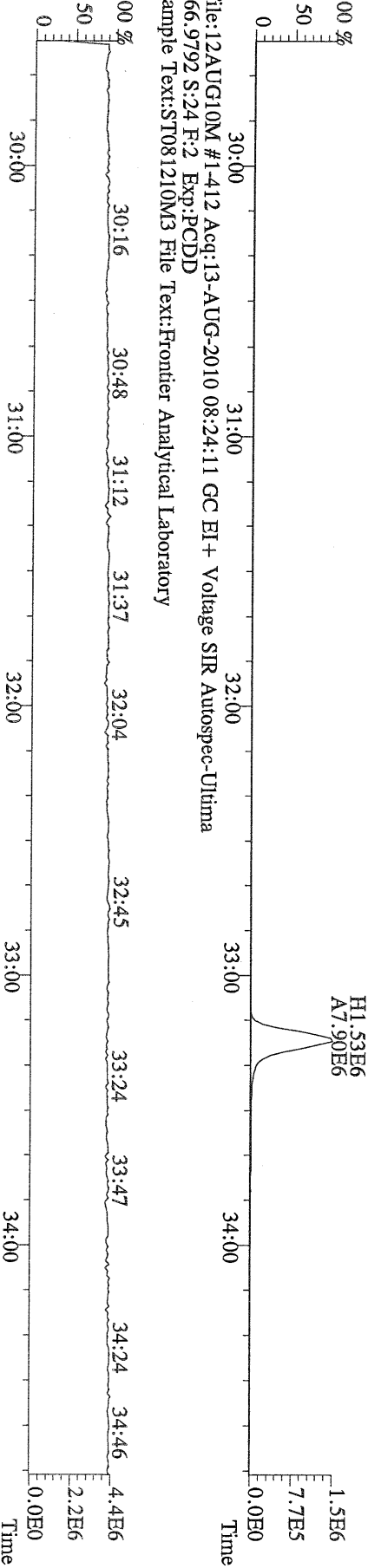




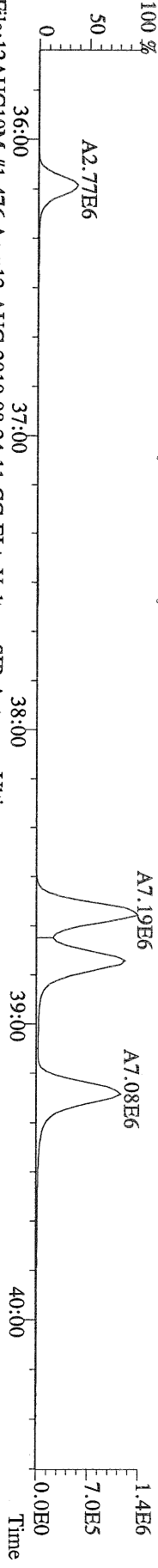
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355.8546 S:24 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



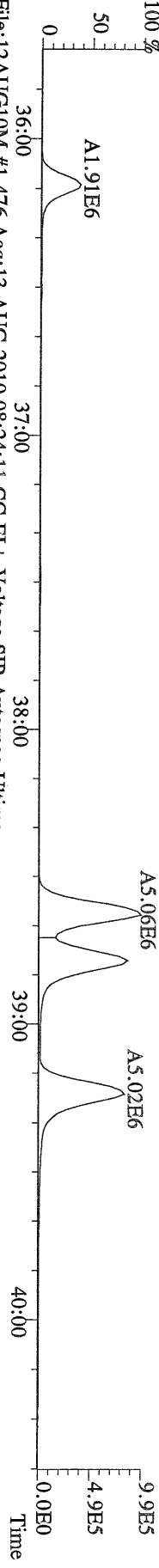
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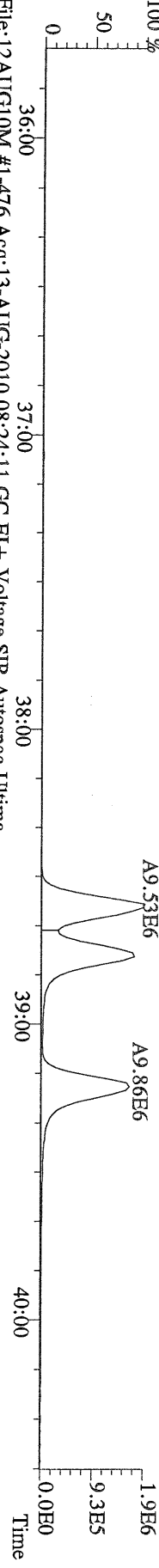
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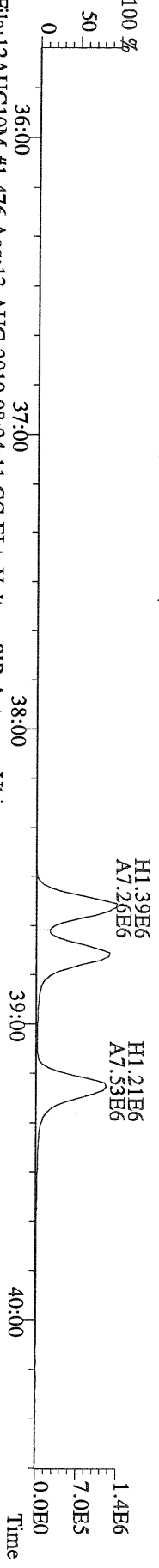
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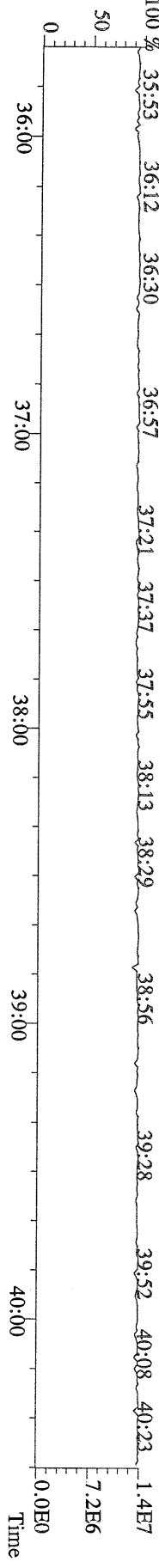
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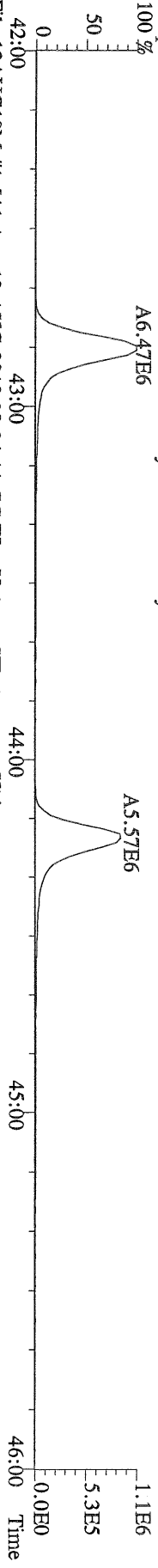
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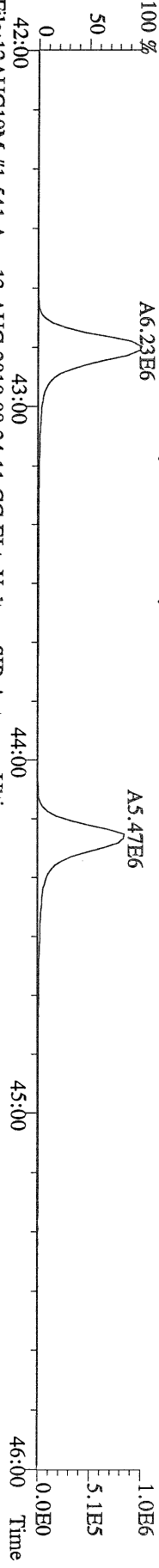
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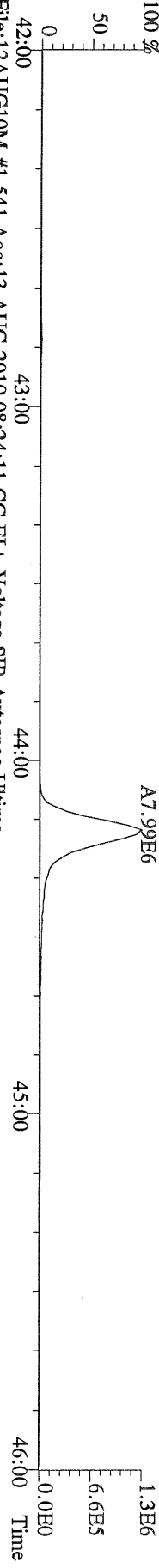
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423.7767 S:24 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0,0%,F,F) Exp:PCDD
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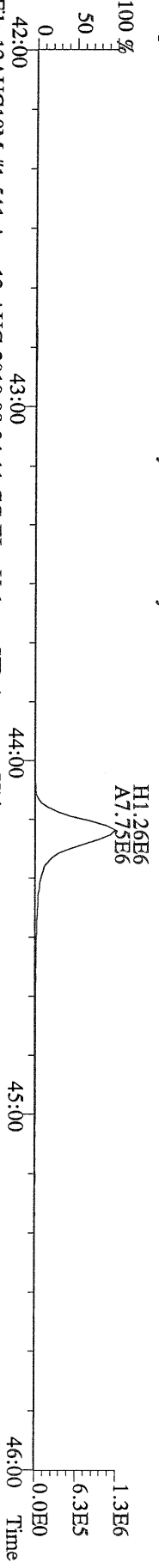
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Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



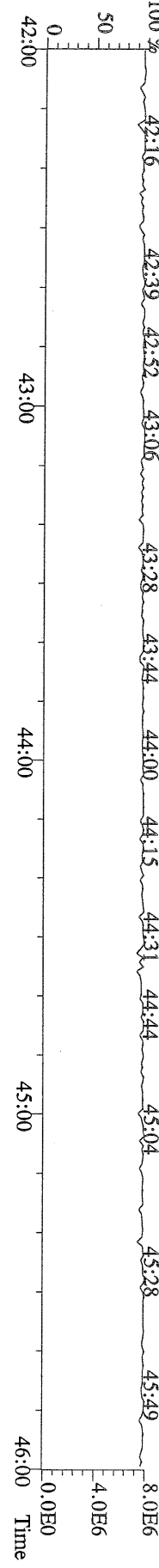
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Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



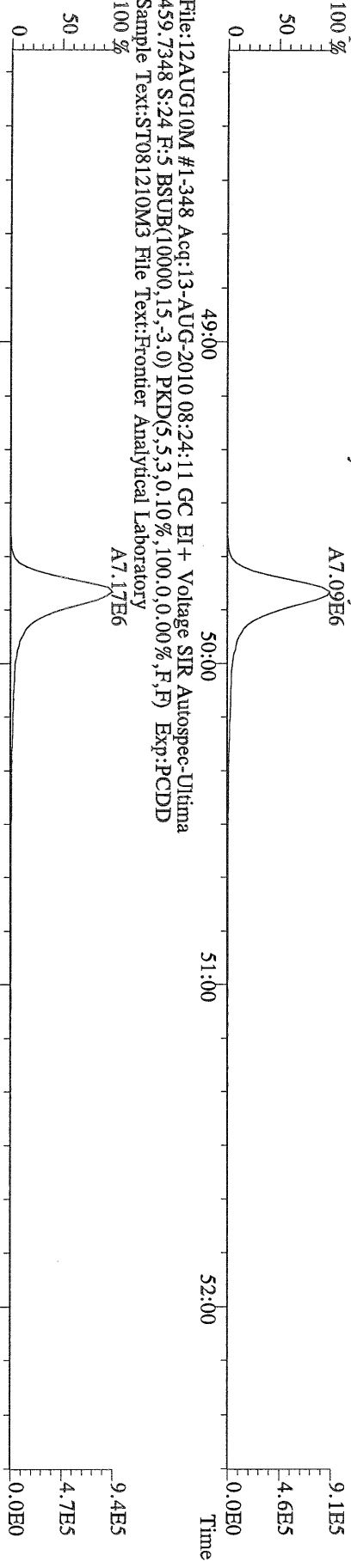
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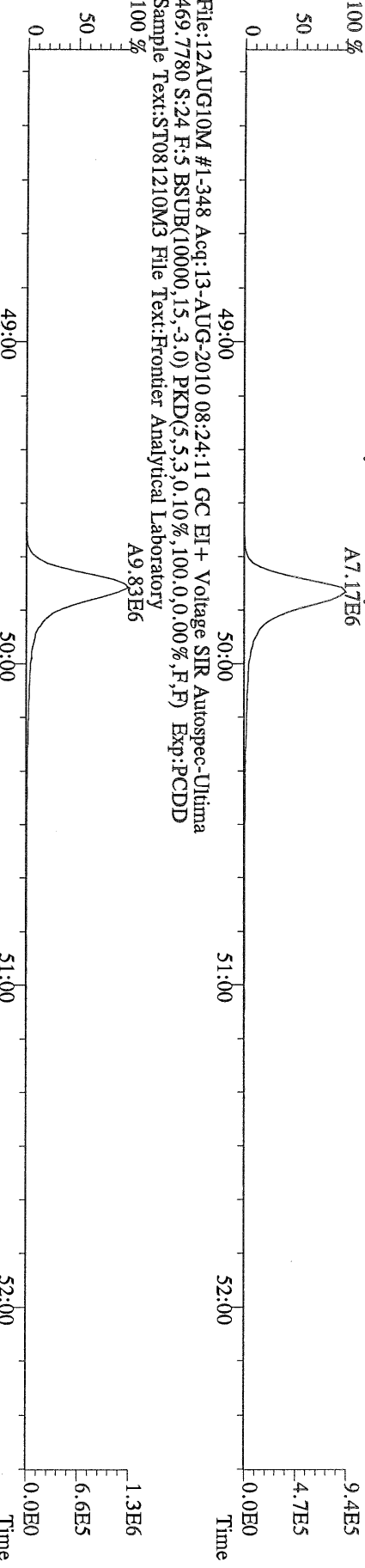
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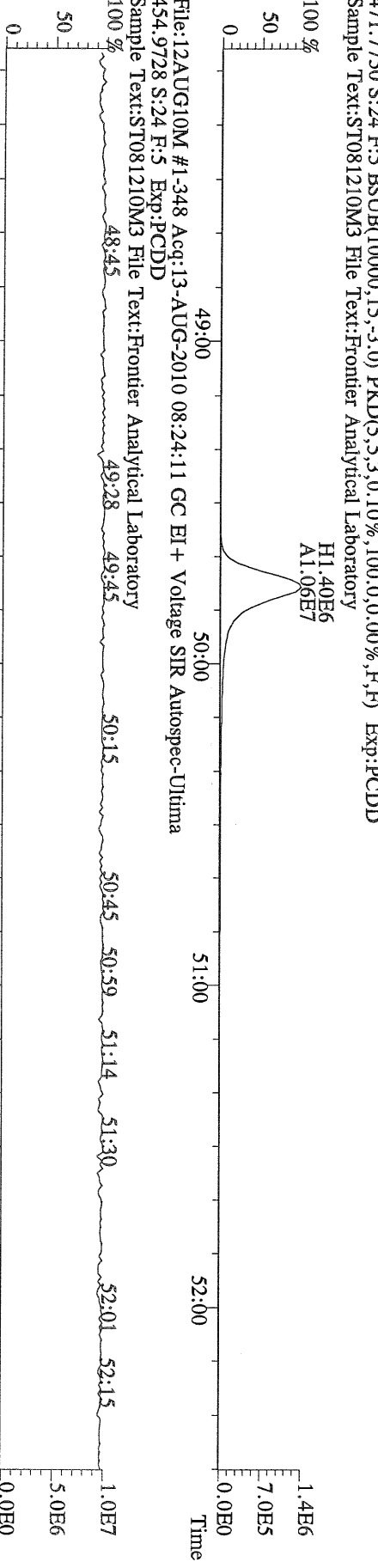
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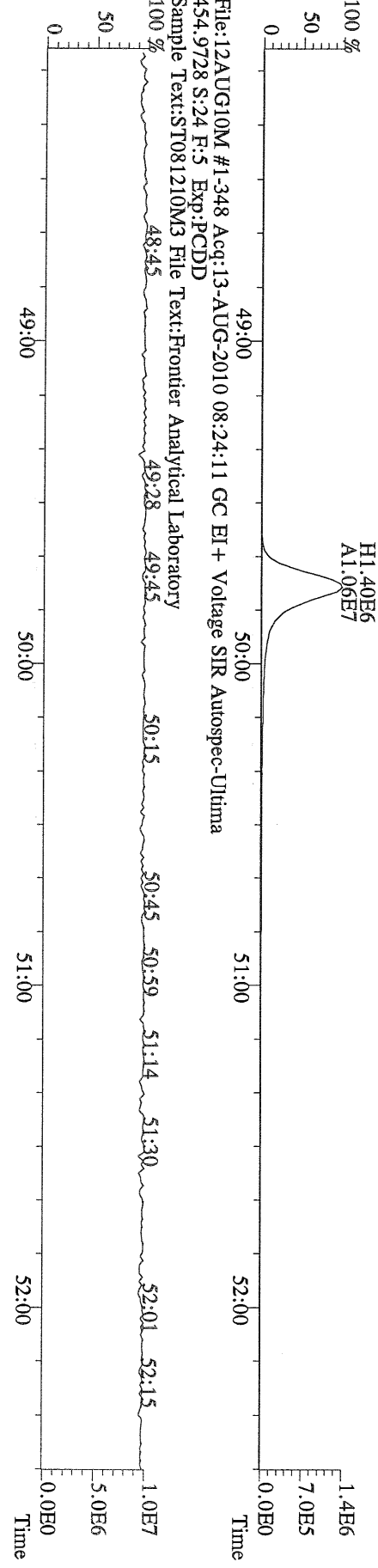
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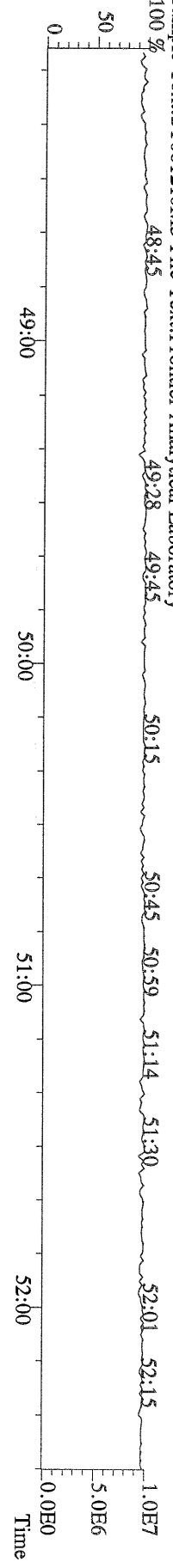
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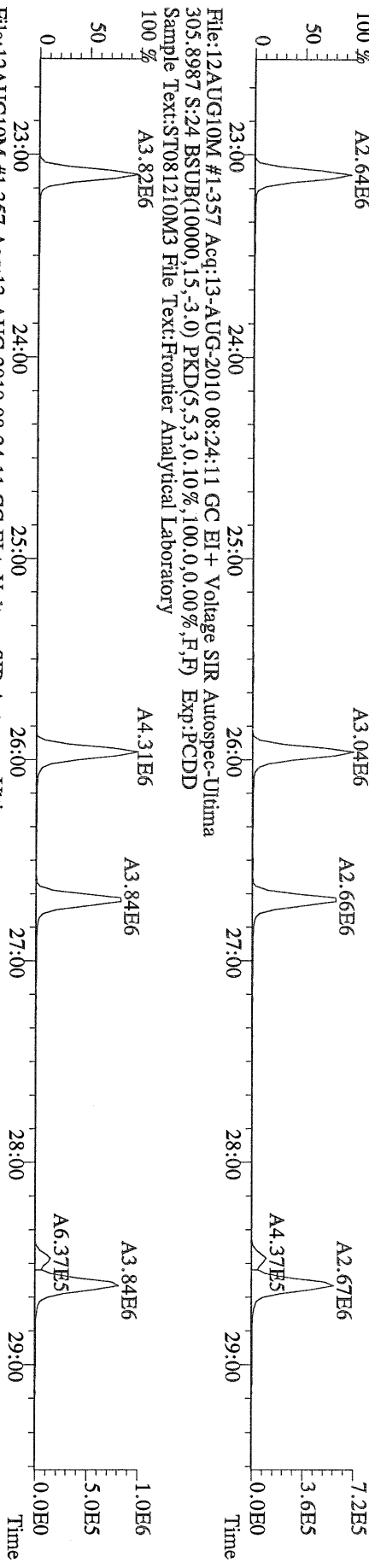
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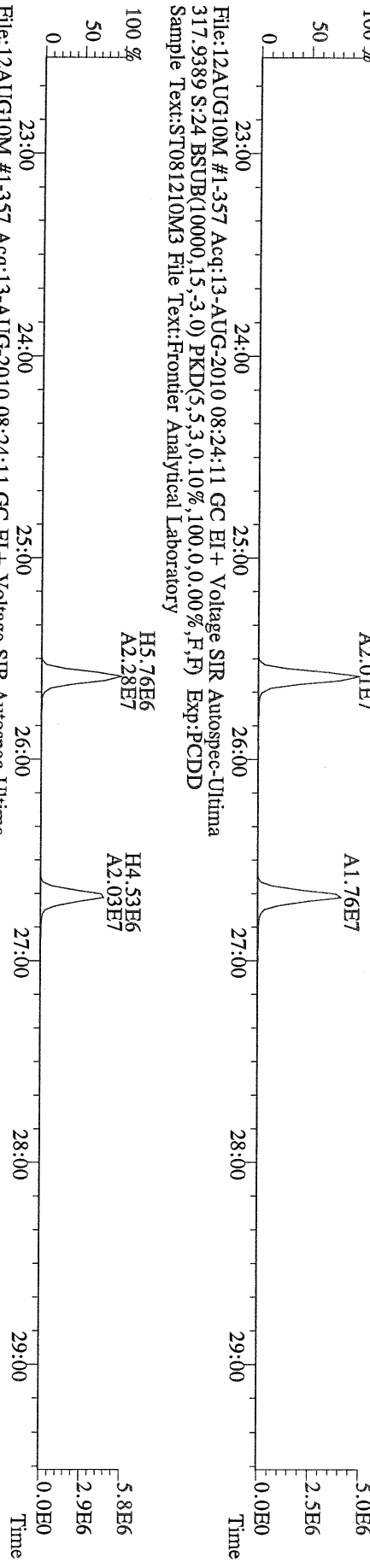
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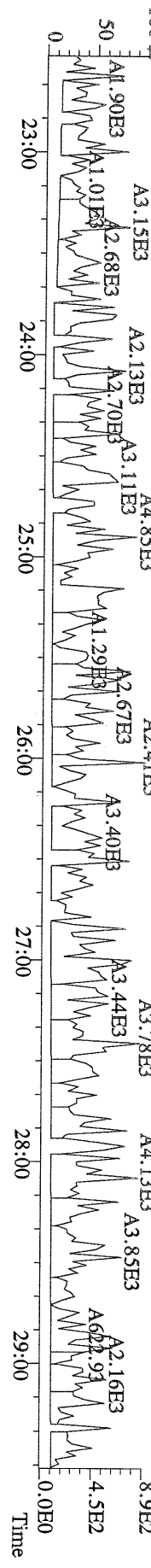
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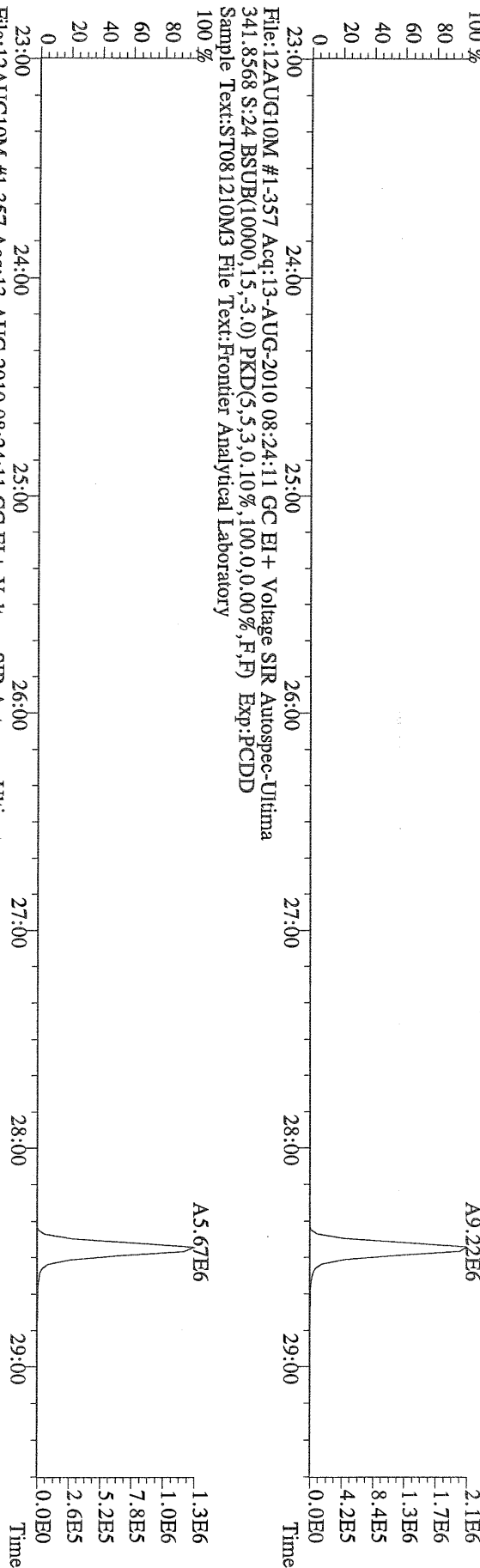
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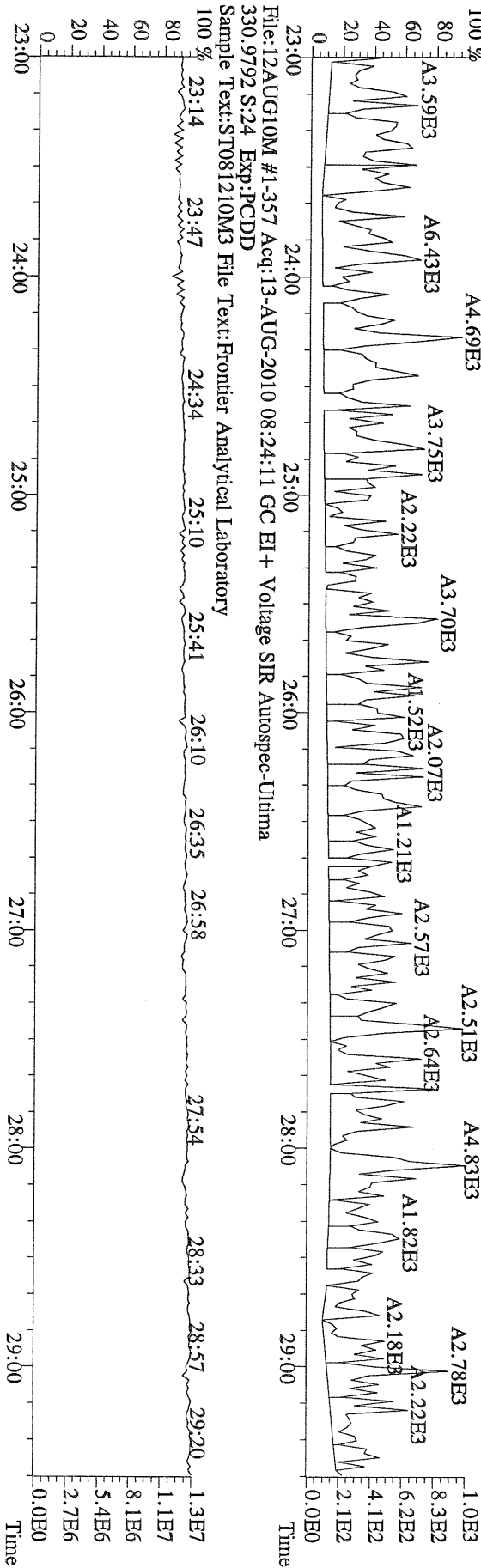
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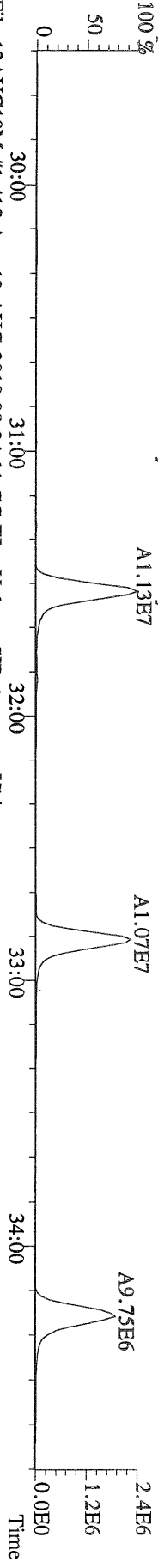
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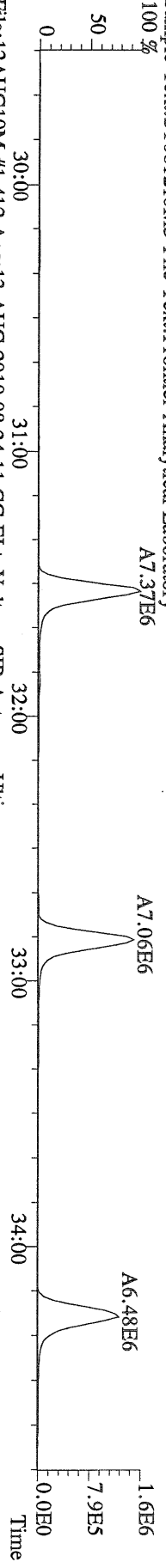
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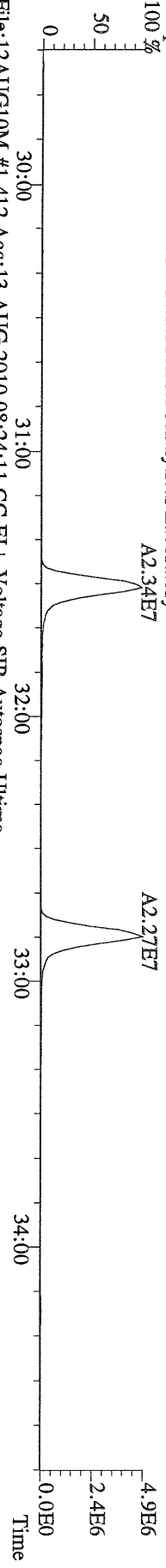
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Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



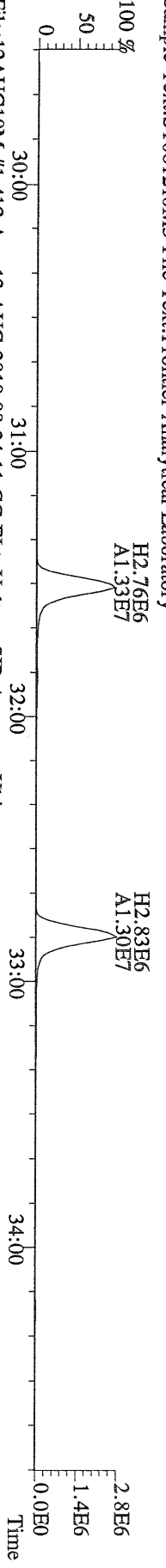
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341.8568 S:24 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



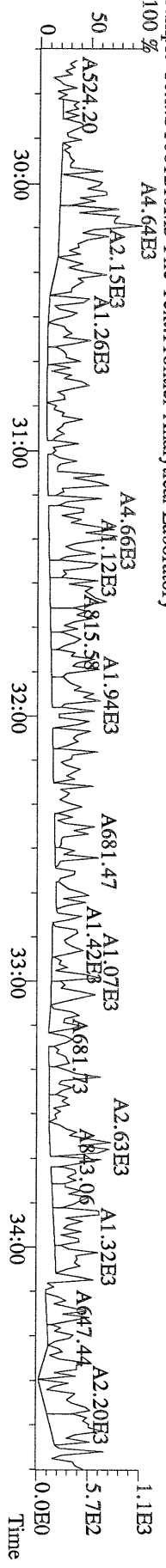
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Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



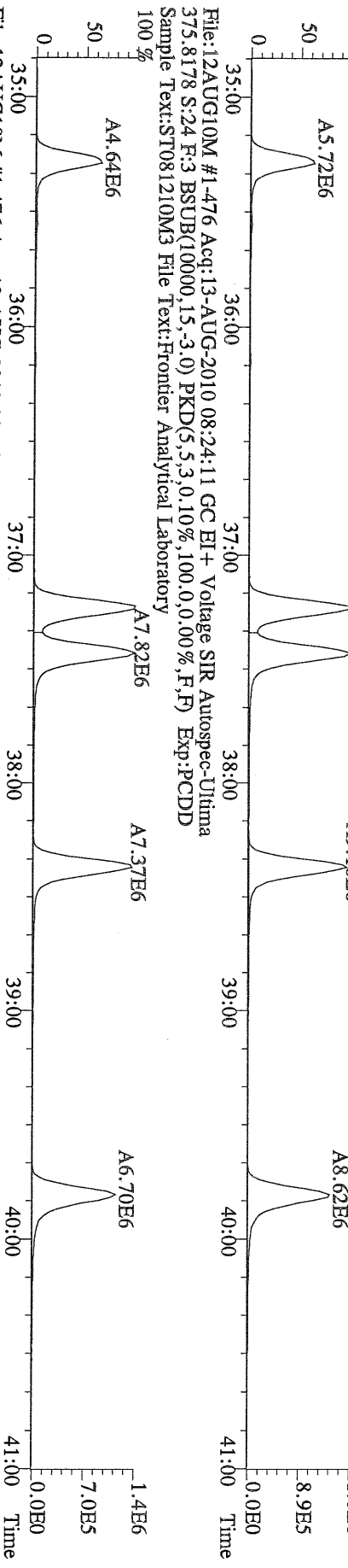
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353.8970 S:24 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



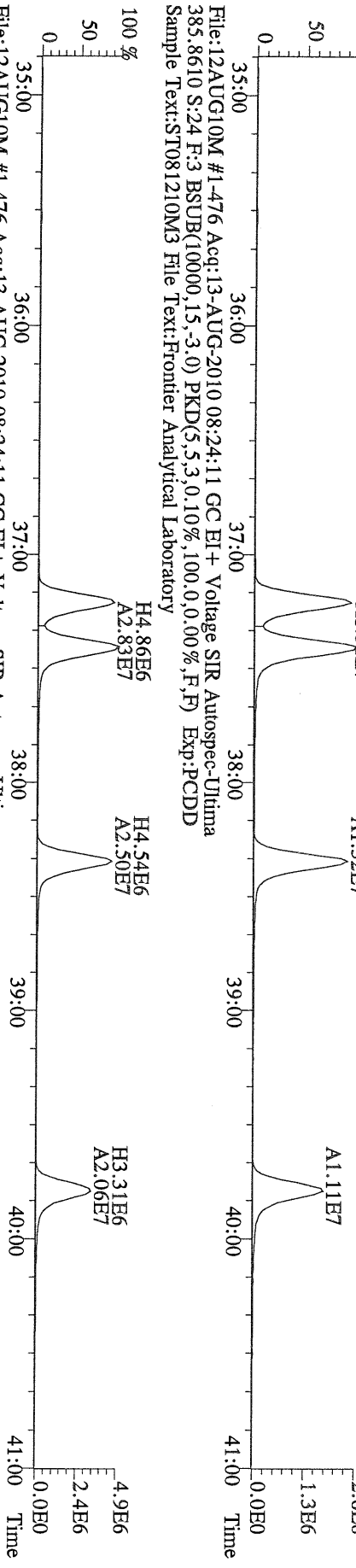
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409.7974 S:24 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



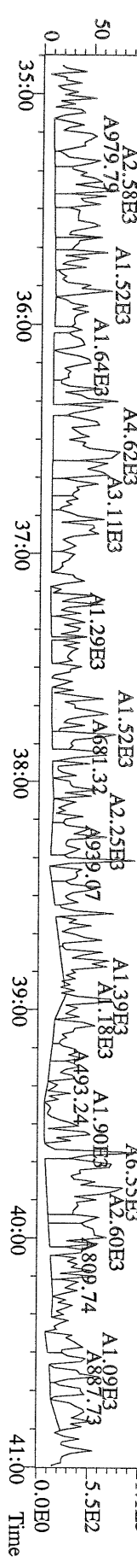
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373.8207 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



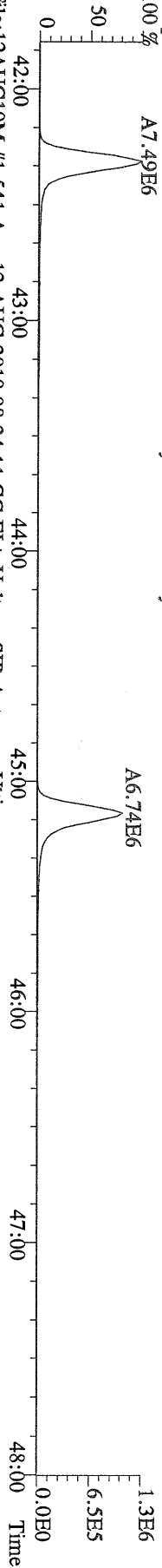
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383.8639 S:24 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



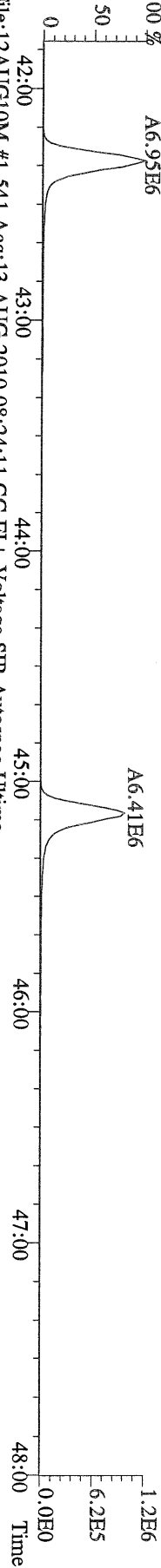
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Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



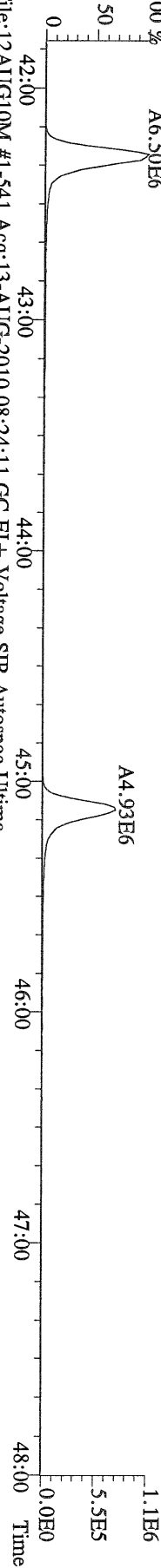
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407.7818 S:24 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



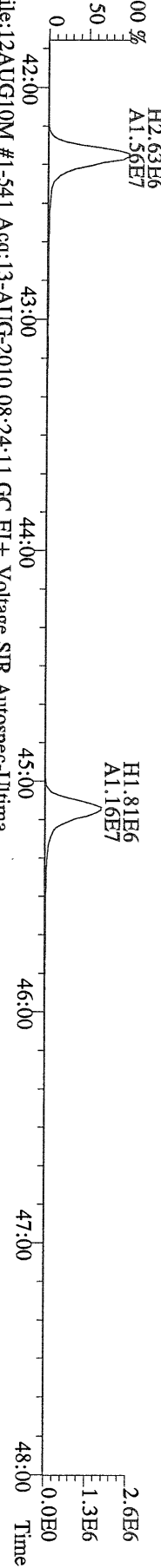
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Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



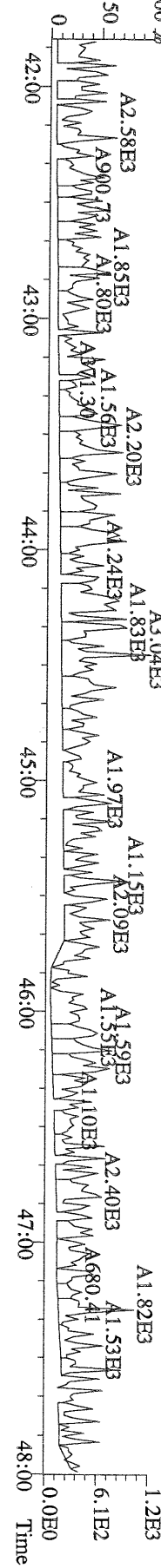
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Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



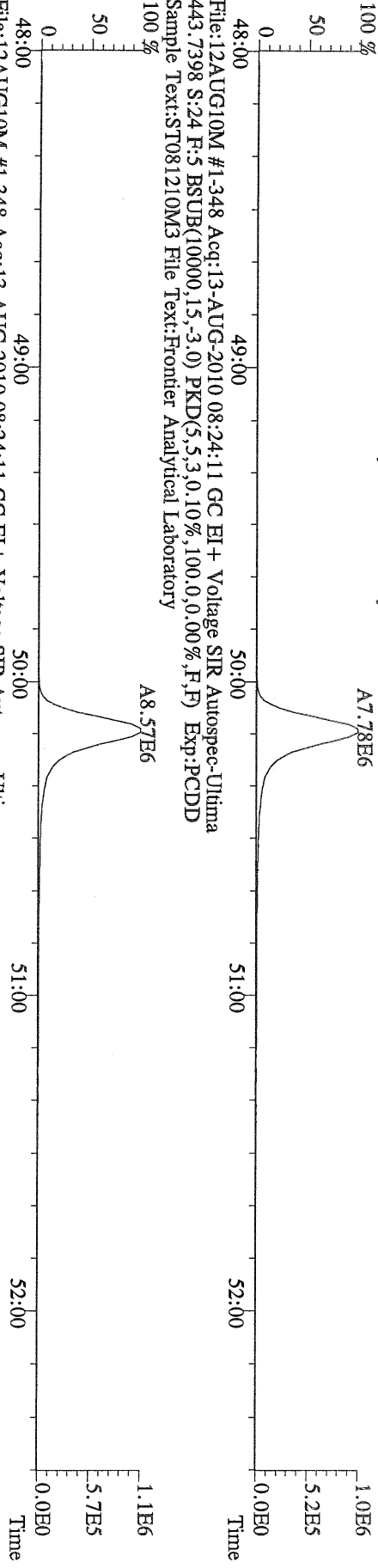
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Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



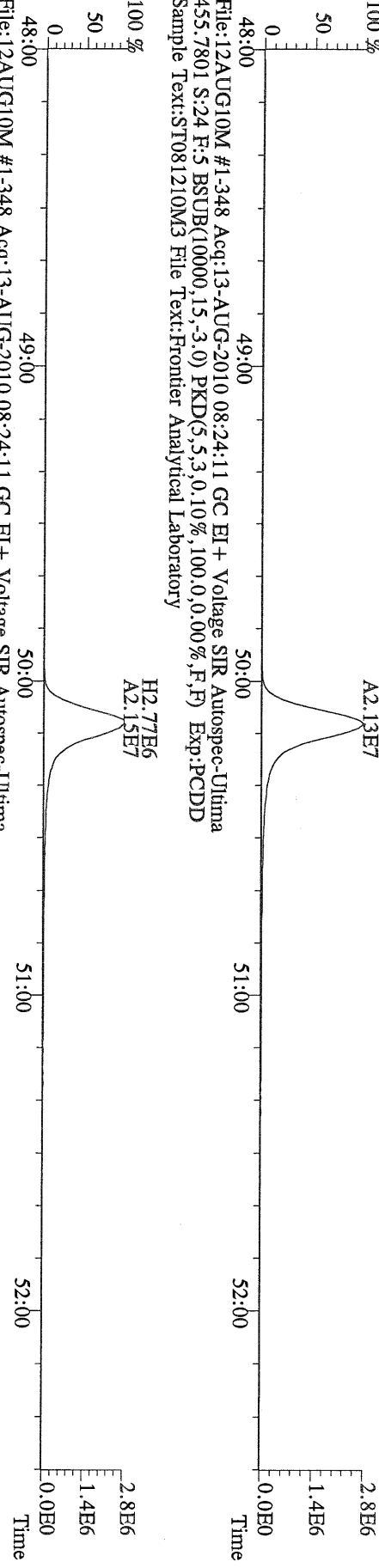
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479.7165 S:24 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory



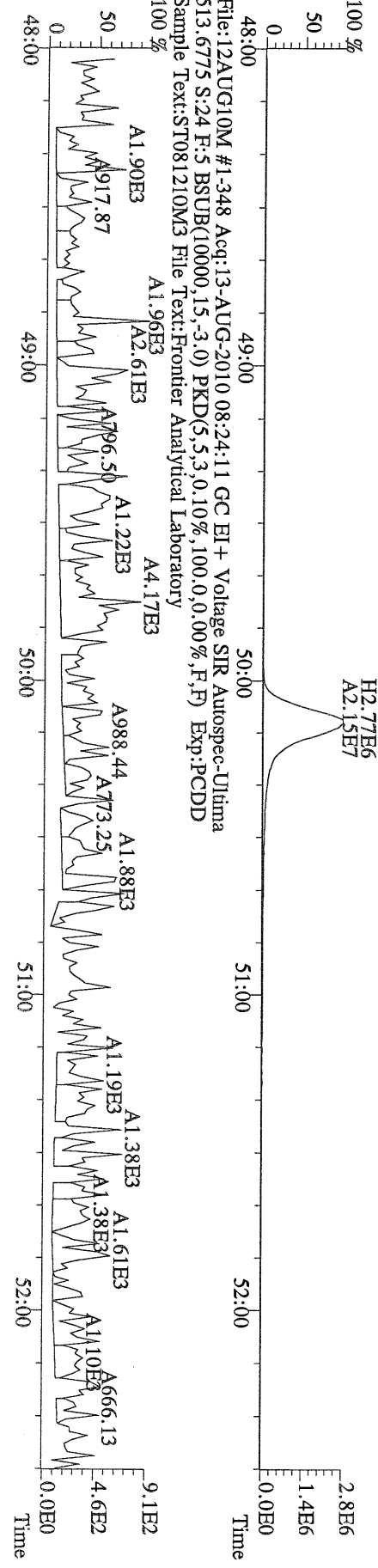
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441.7428 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory
100 %



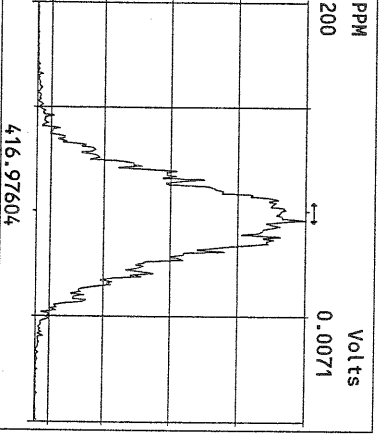
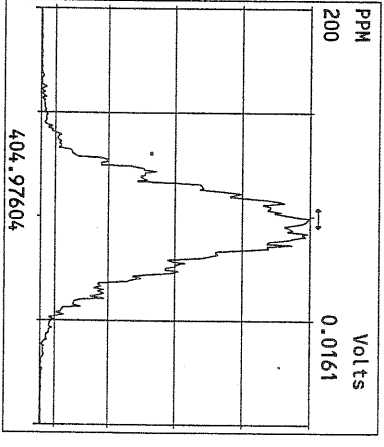
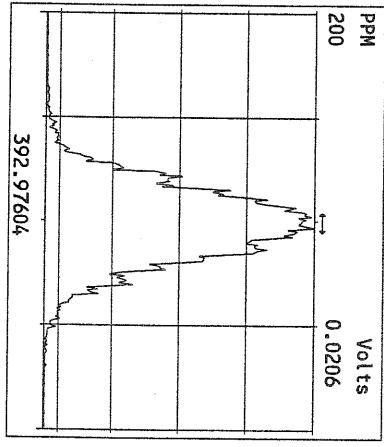
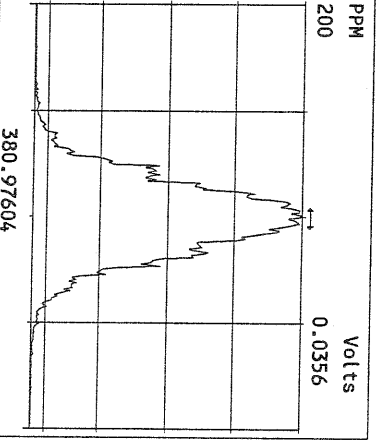
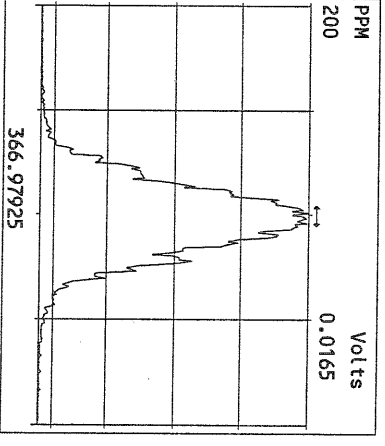
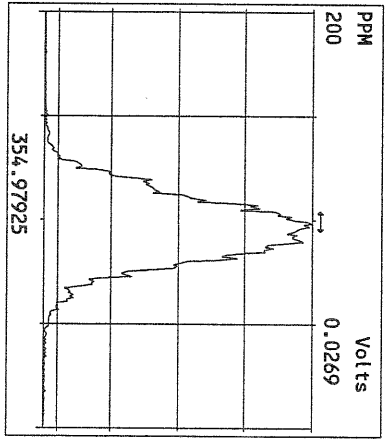
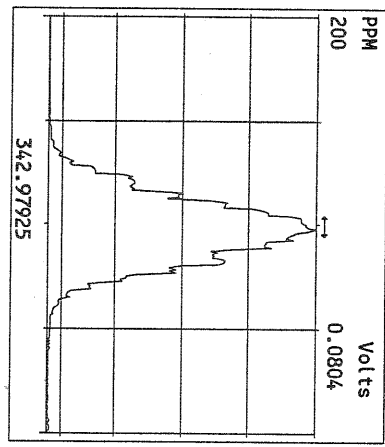
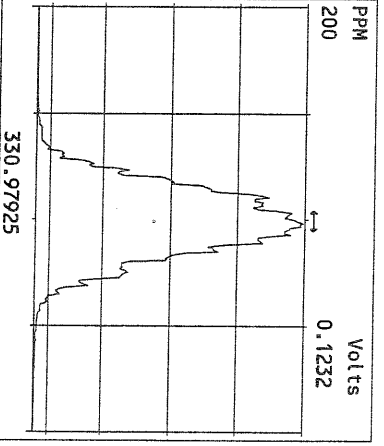
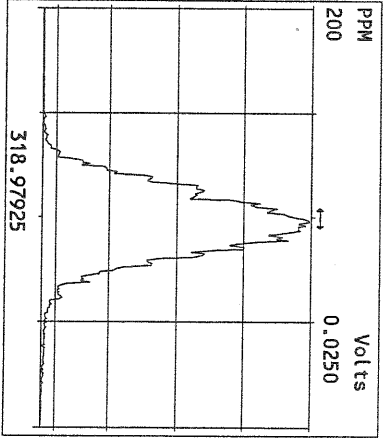
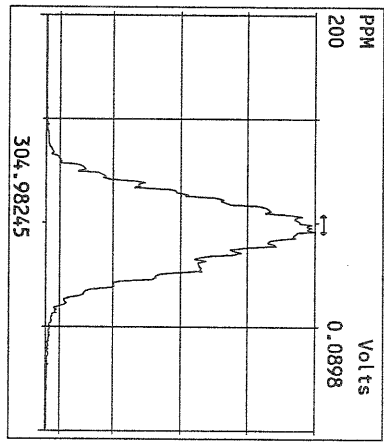
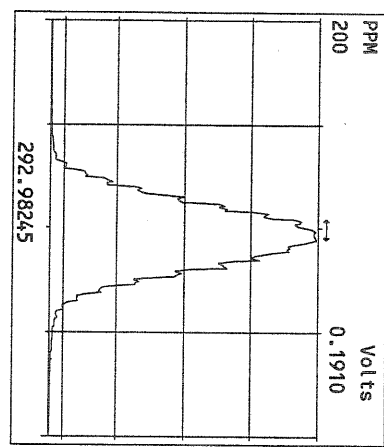
File:12AUG10M #1-348 Acq:13-AUG-2010 08:24:11 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory
100 %

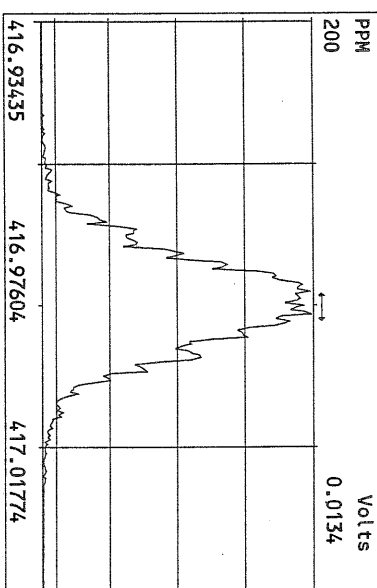
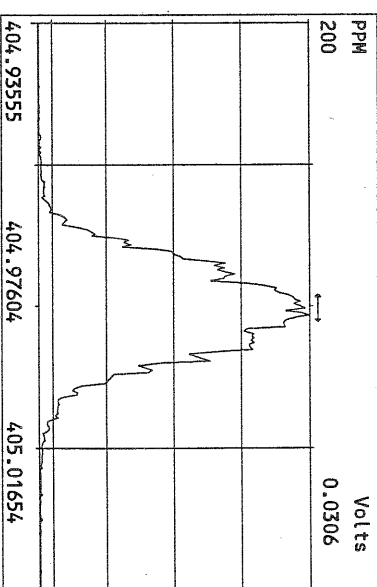
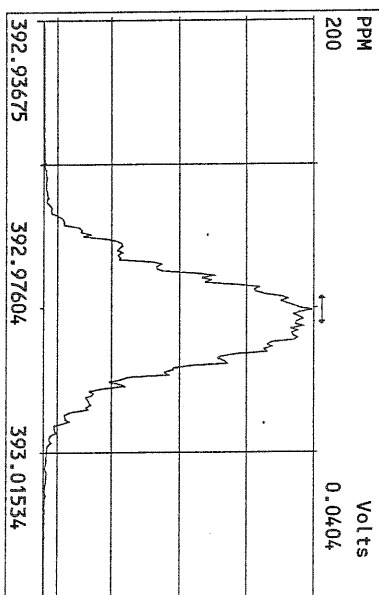
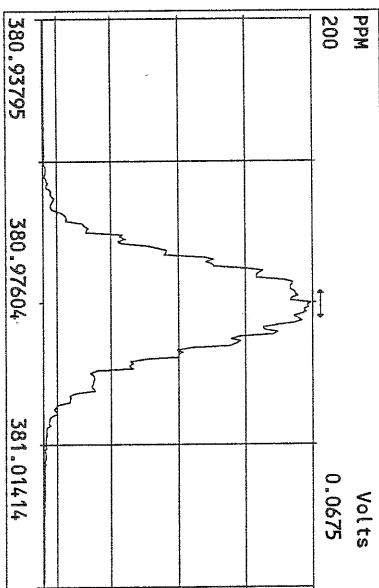
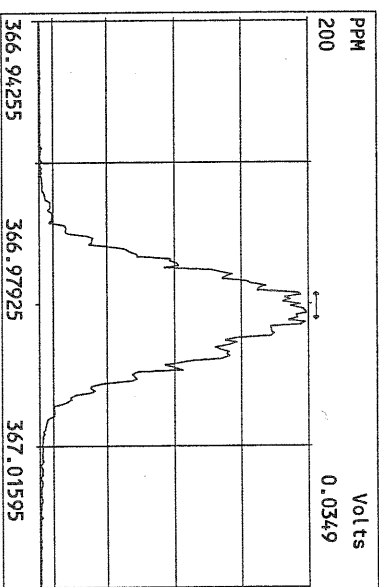
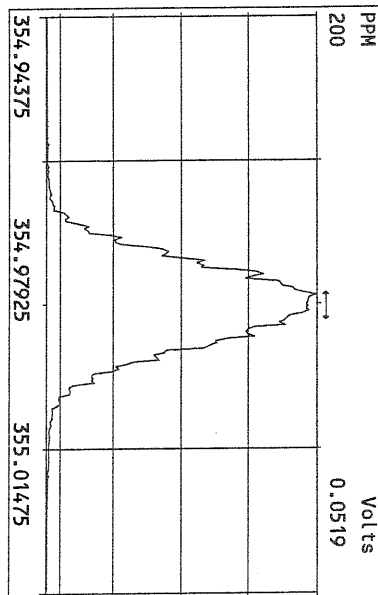
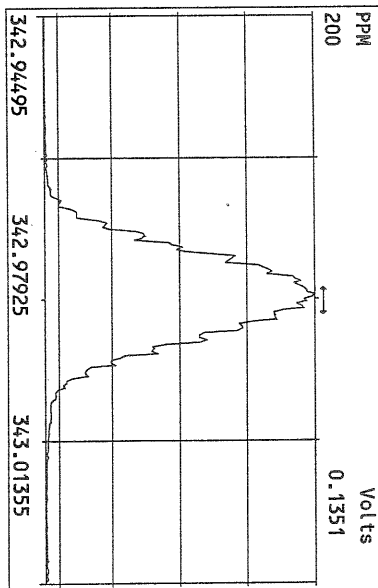
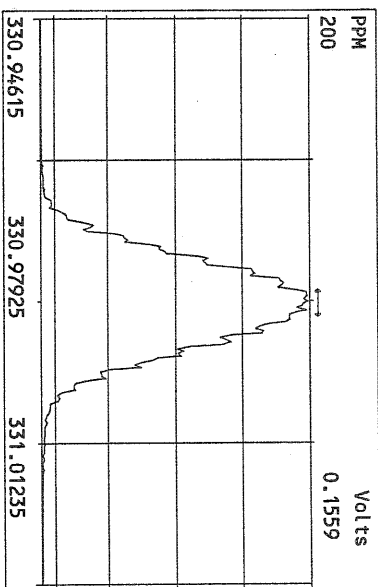


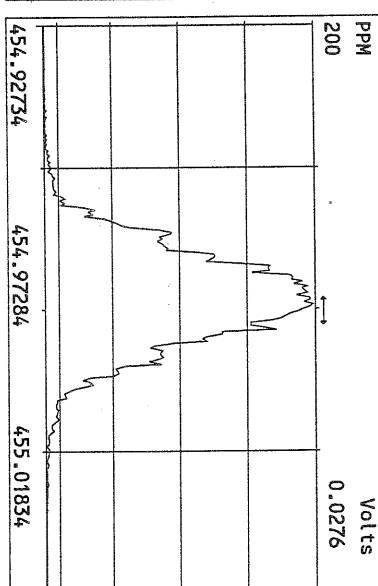
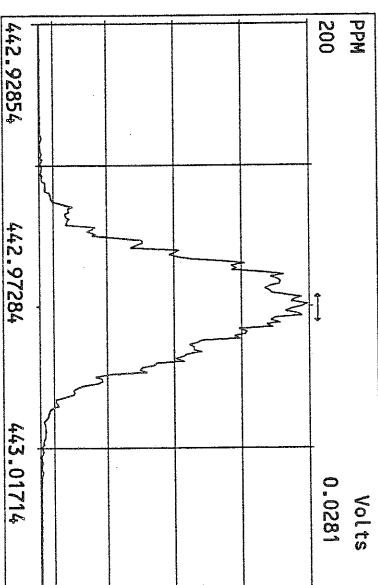
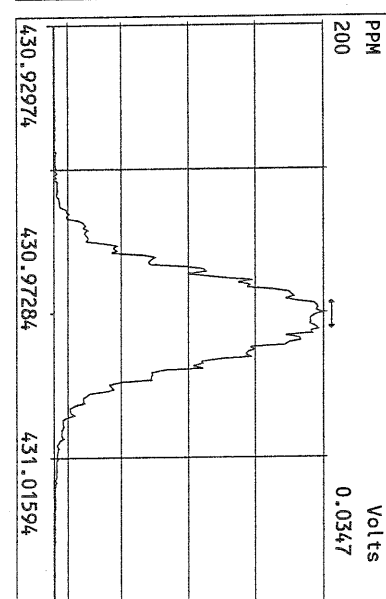
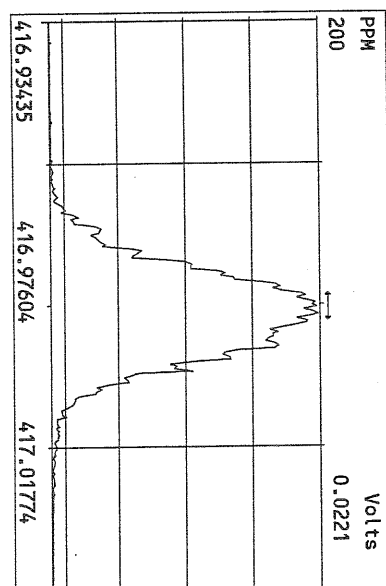
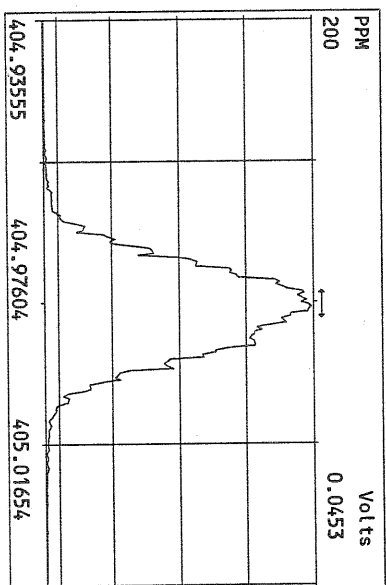
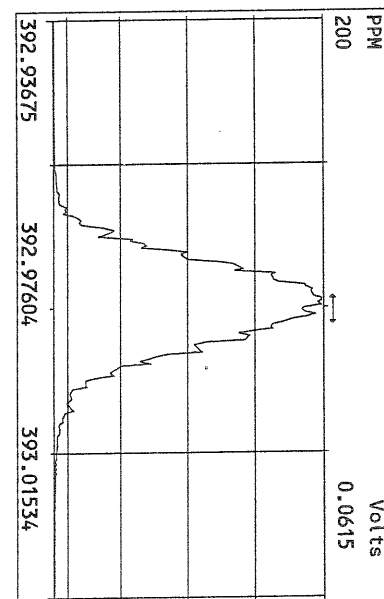
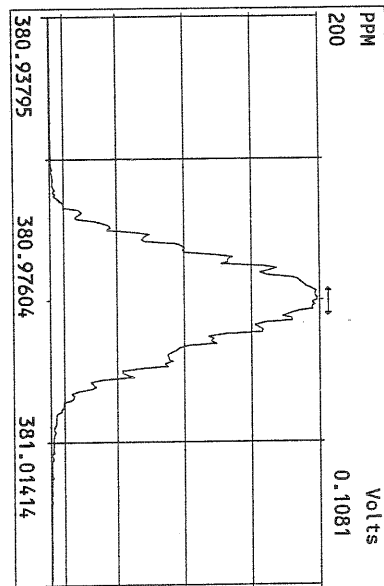
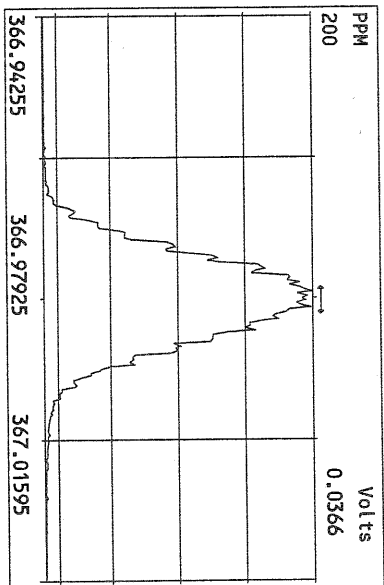
File:12AUG10M #1-348 Acq:13-AUG-2010 08:24:11 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:24 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081210M3 File Text:Frontier Analytical Laboratory

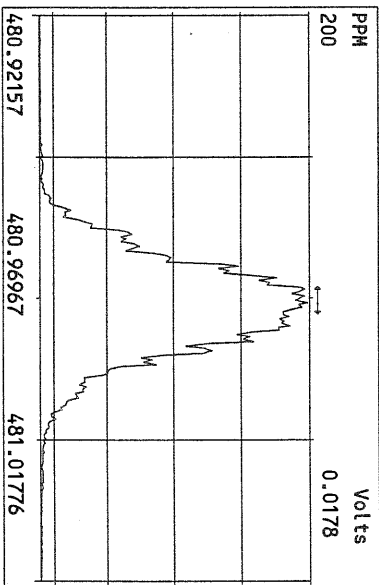
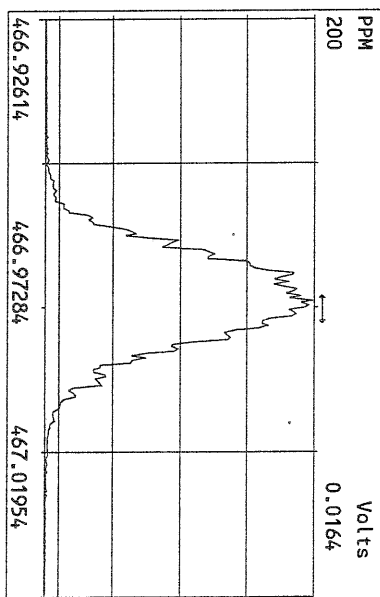
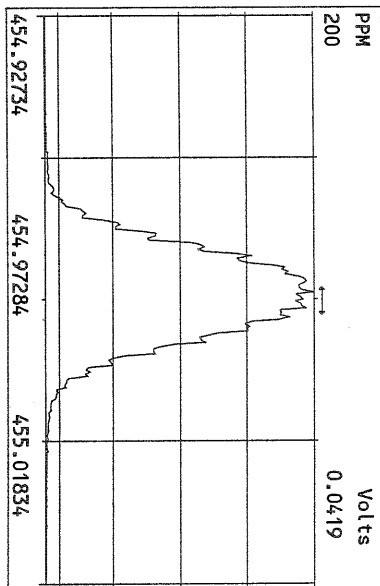
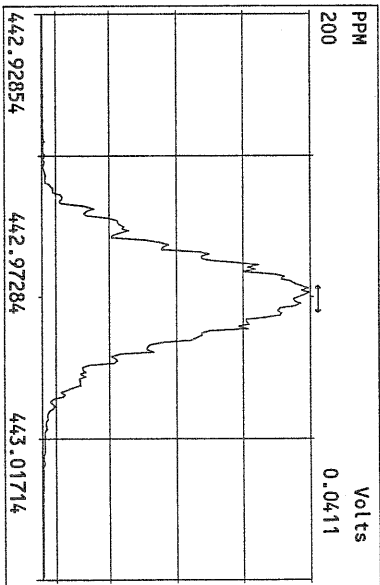
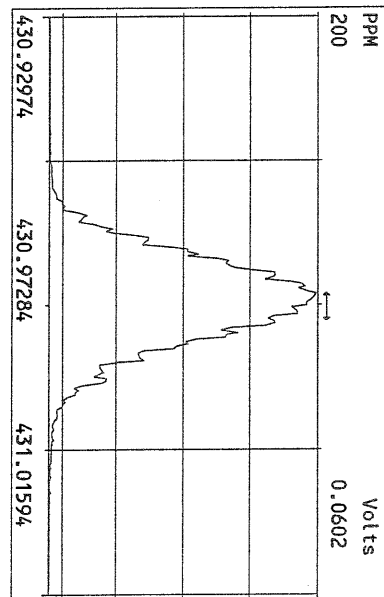
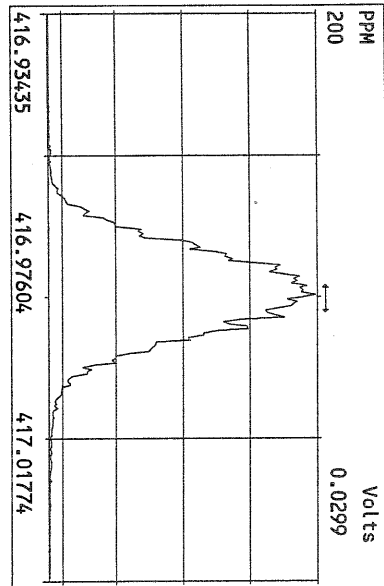
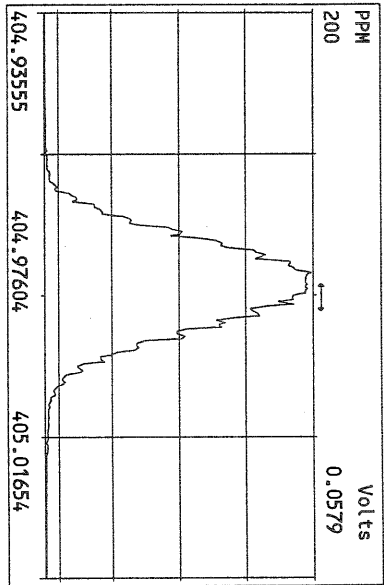


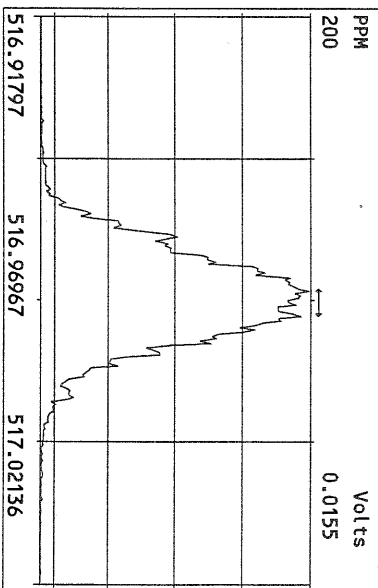
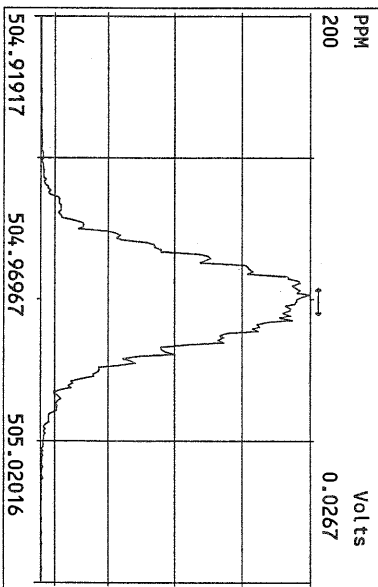
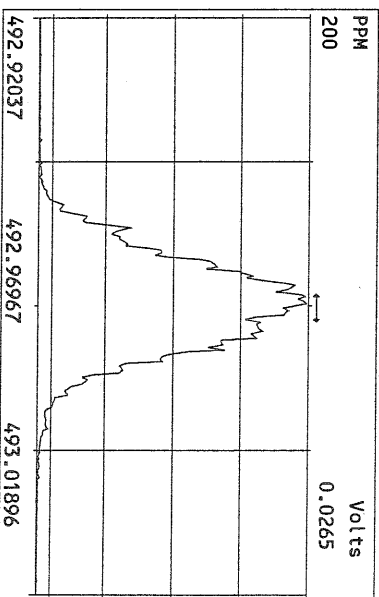
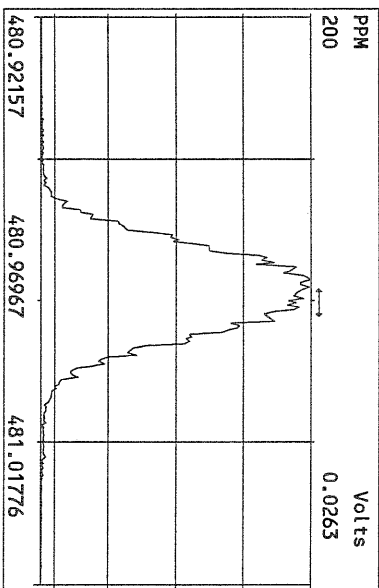
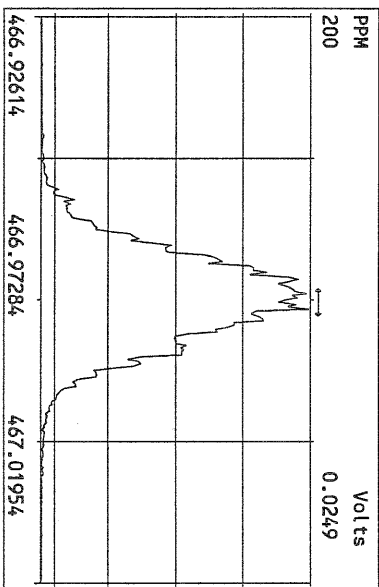
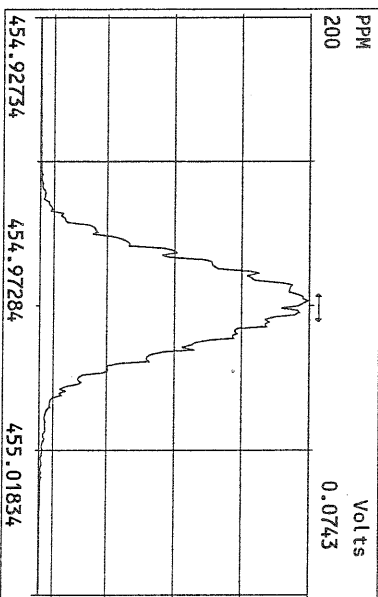
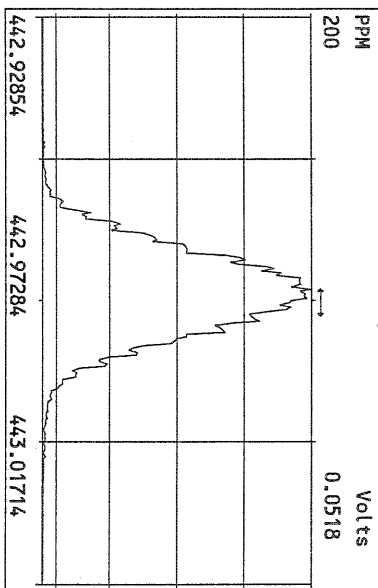
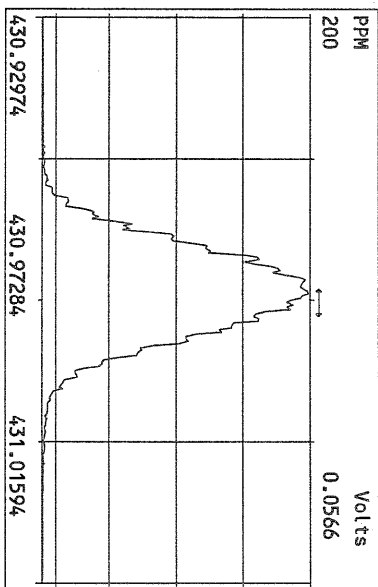
Peak Locate Examination:13-AUG-2010:09:21 File:12AUG10M_RES_CHECK
Experiment:PCDD Function:1 Reference:PFK











USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 17AUG10M Sam:1

Analysis Date: 17-AUG-10 07:54:40

	M/Z'S	ION	QC	ACCEPT	CONC. FOUND	CONC. RANGE (ng/mL) (3)
	FORMING RATIO (1)	ABUND. RATIO	LIMITS (2)			
NATIVE ANALYTES						
2,3,7,8-TCDD	M/M+2	0.77	0.65-0.89	y	10.7	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.65	1.32-1.78	y	51.7	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.40	1.05-1.43	y	51.8	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.40	1.05-1.43	y	50.2	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.39	1.05-1.43	y	55.1	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.01	0.88-1.20	y	48.9	43.0 - 58.0
OCDD	M+2/M+4	0.94	0.76-1.02	y	106	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.68	0.65-0.89	y	9.35	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.49	1.32-1.78	y	51.2	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.48	1.32-1.78	y	49.3	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	46.3	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	48.1	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.26	1.05-1.43	y	47.7	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.24	1.05-1.43	y	47.1	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.07	0.88-1.20	y	45.3	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.08	0.88-1.20	y	45.0	43.0 - 58.0
OCDF	M+2/M+4	0.88	0.76-1.02	y	96.8	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: 8Date: 8/17/10

USEPA - ITD

FORM 6A

PCDD/PCDF RELATIVE RETENTION TIMES

Lab Name: Frontier Analytical Laboratory

Episode No.:

Contract No.:

SAS No.:

Init. Cal. Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

Analysis Date: 17-AUG-10 07:54:40

CS3 or VER Data Filename: 17AUG10M

Sam:1

NATIVE ANALYTES	RETENTION TIME	RRT	RRT
	REFERENCE		QC LIMITS (1)
2,3,7,8-TCDD	13C-2,3,7,8-TCDD	1.001	0.999-1.002
2,3,7,8-TCDF	13C-2,3,7,8-TCDF	1.001	0.999-1.003
1,2,3,7,8-PeCDD	13C-1,2,3,7,8-PeCDD	1.001	0.999-1.002
1,2,3,7,8-PeCDF	13C-1,2,3,7,8-PeCDF	1.000	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		1.239	1.000-1.567
13C-1,2,3,7,8-PeCDF		1.174	0.923-1.203
13C-2,3,4,7,8-PeCDF		1.223	0.923-1.303

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

Analyst: 6Date: 8/17/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:17AUG10M

Instrument: FAL3

GC: DB5

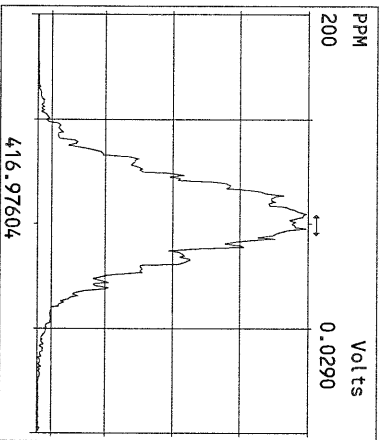
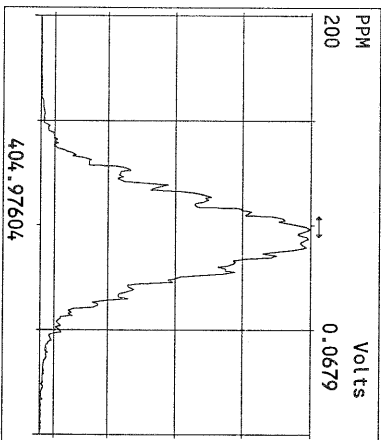
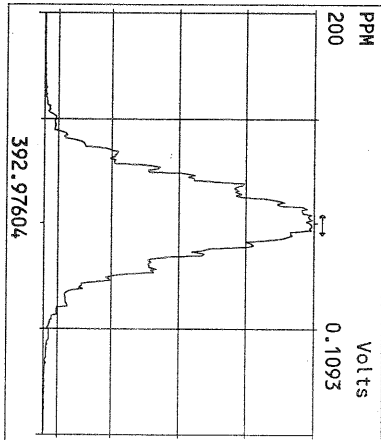
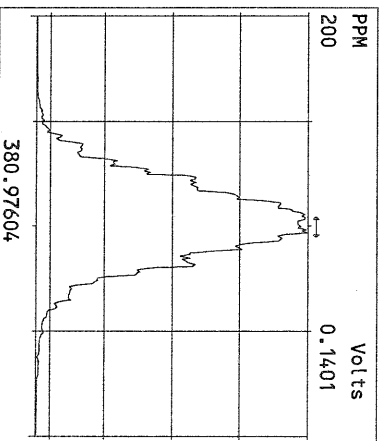
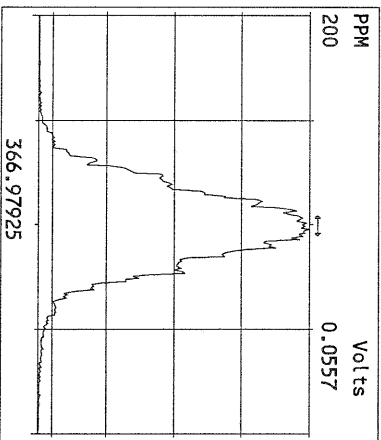
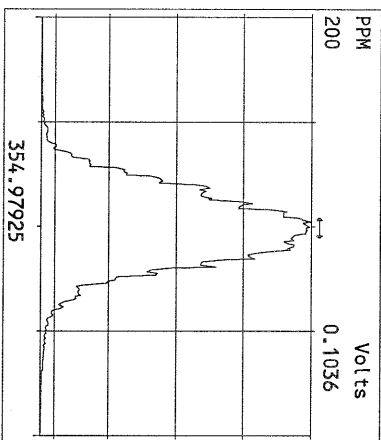
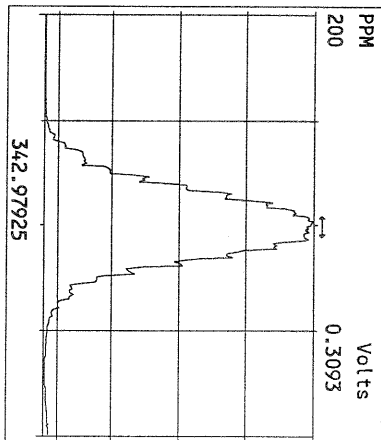
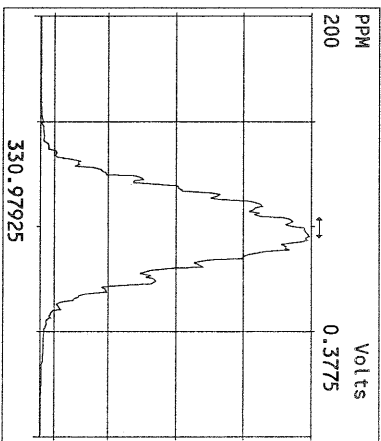
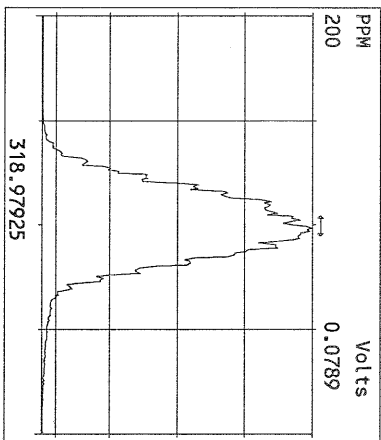
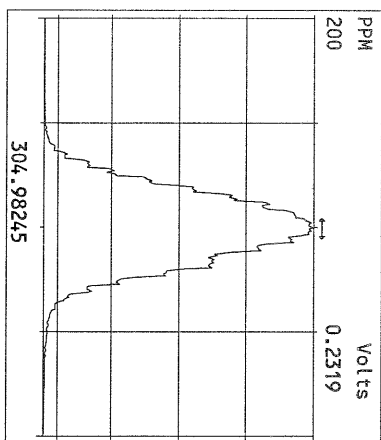
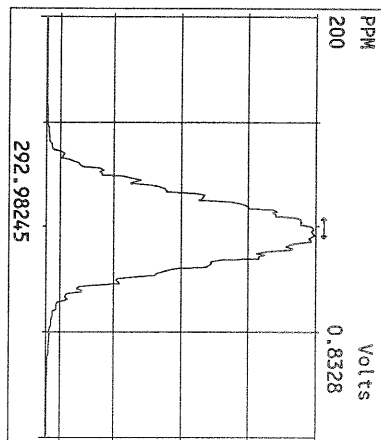
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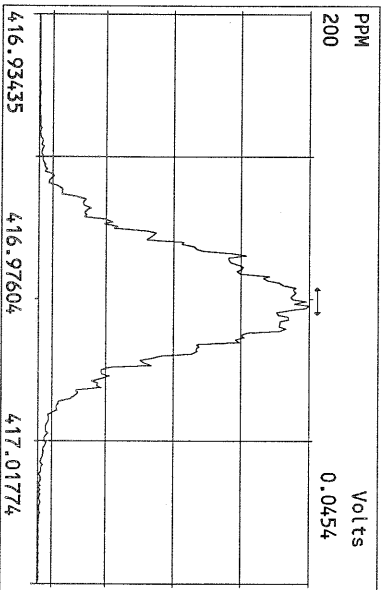
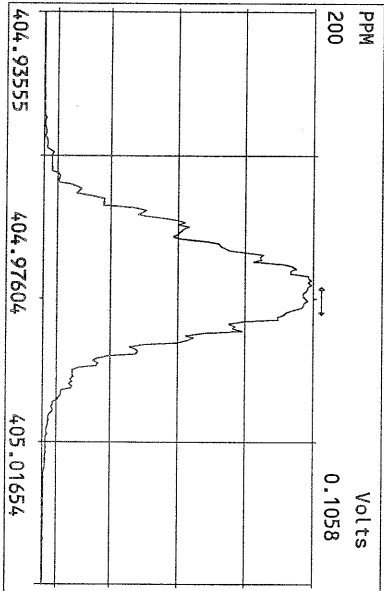
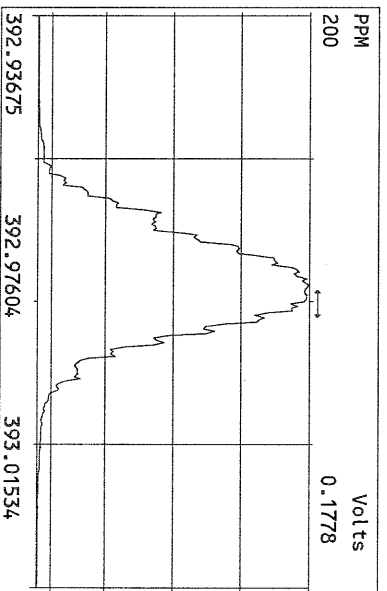
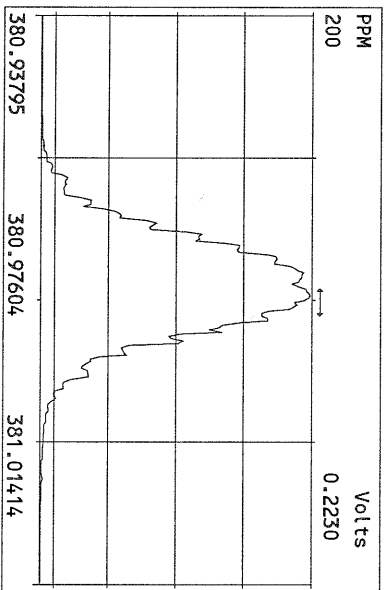
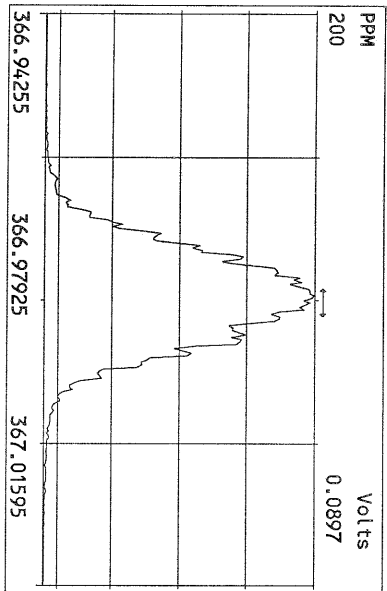
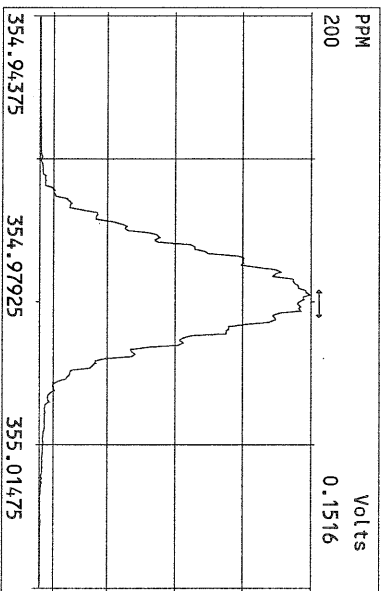
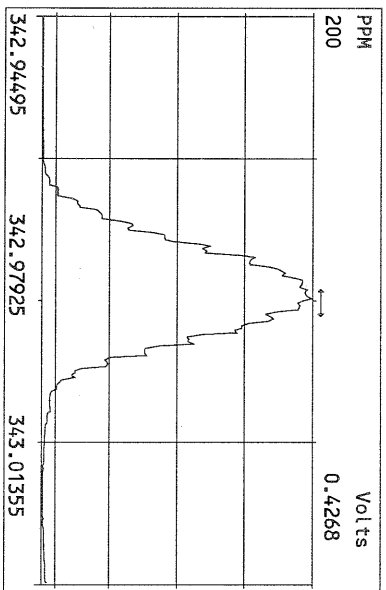
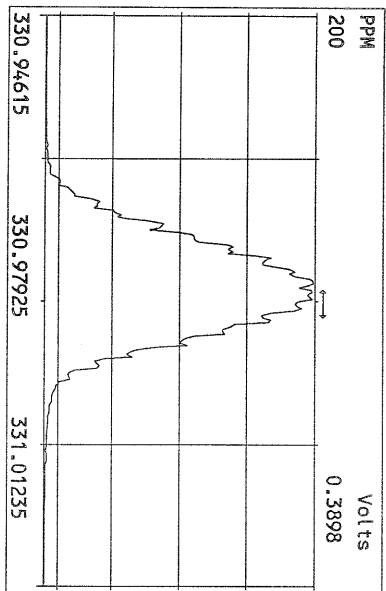
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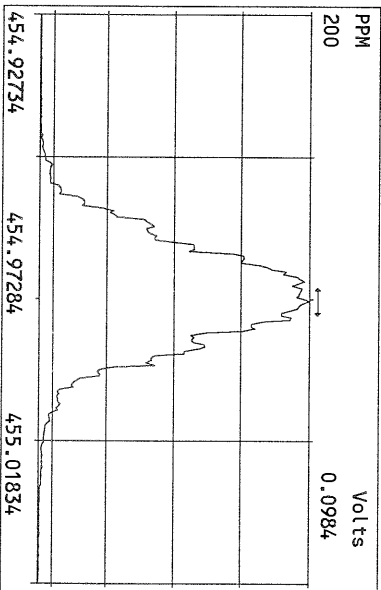
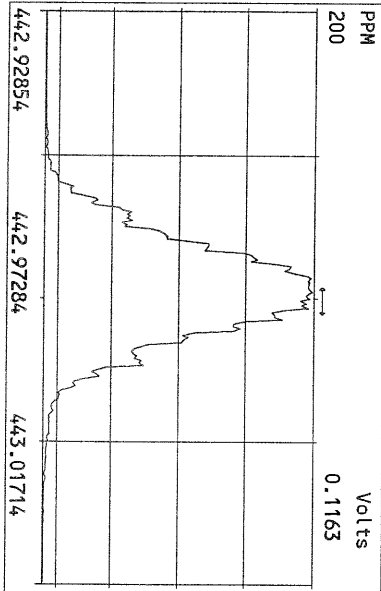
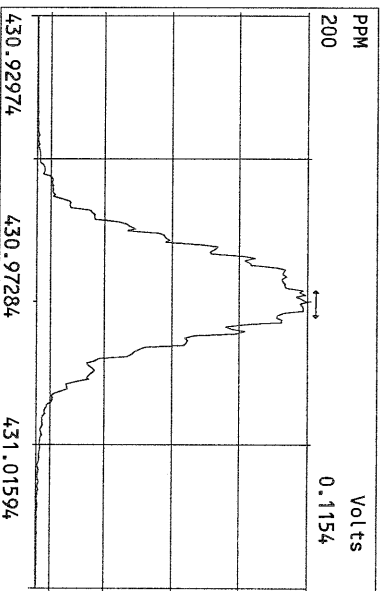
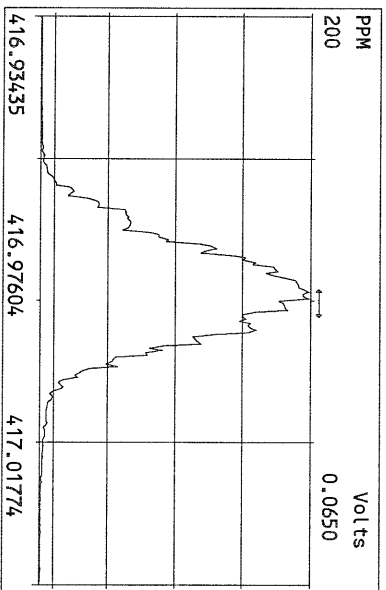
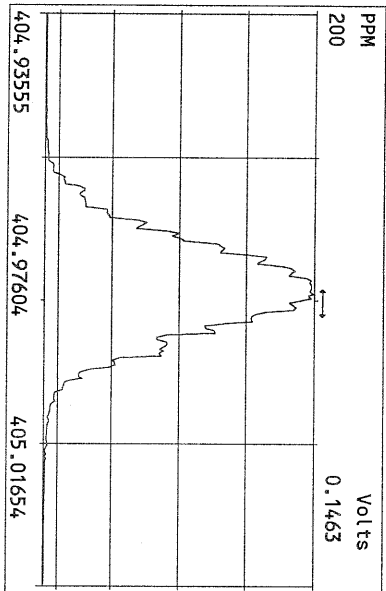
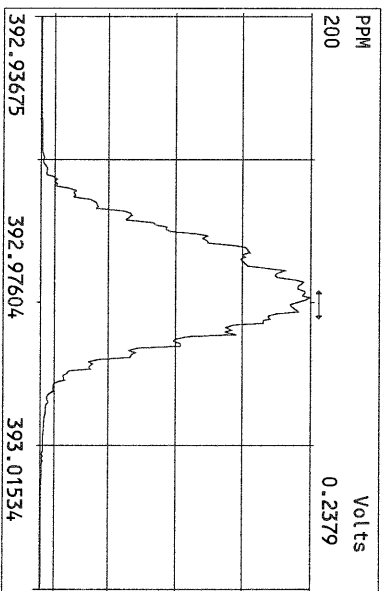
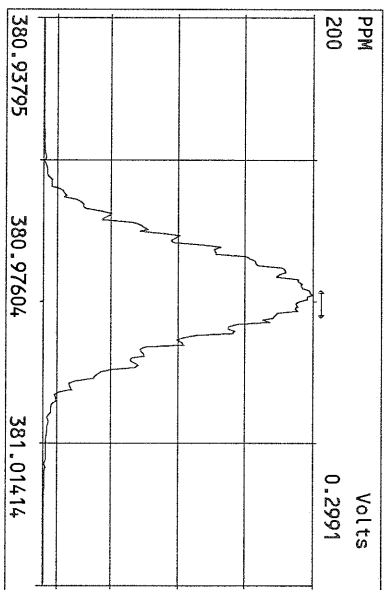
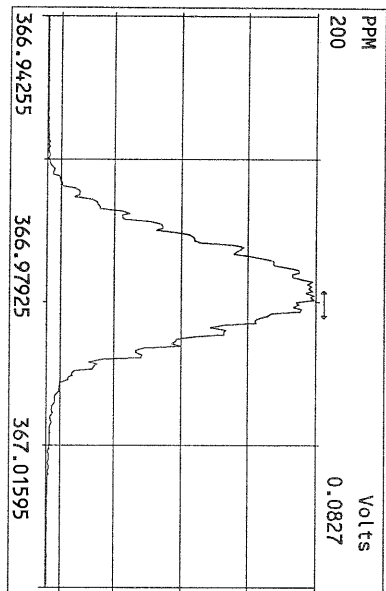
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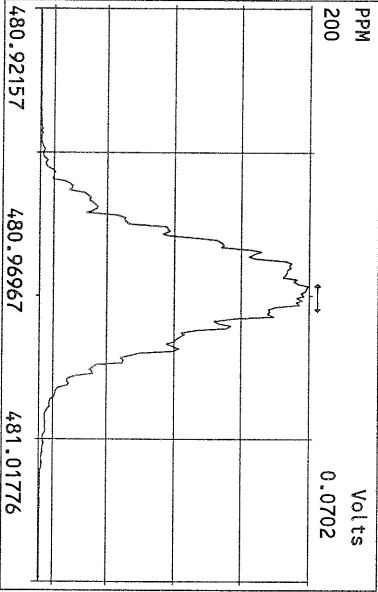
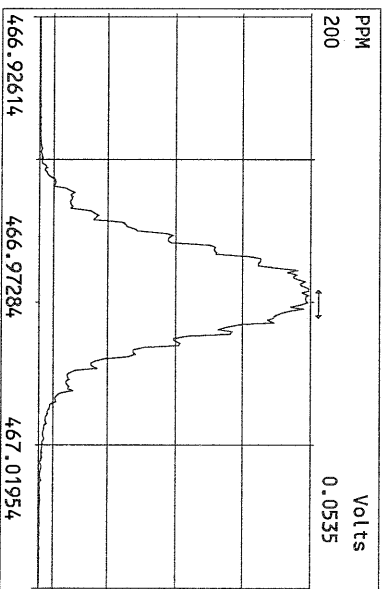
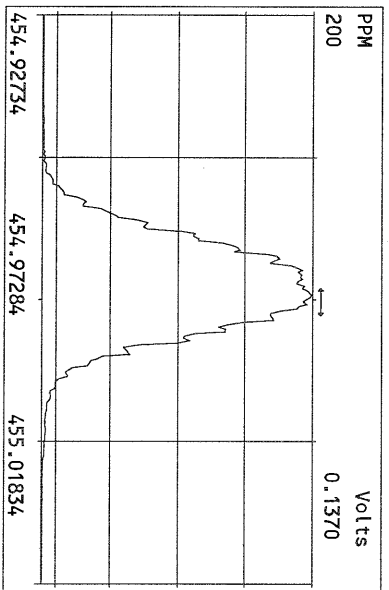
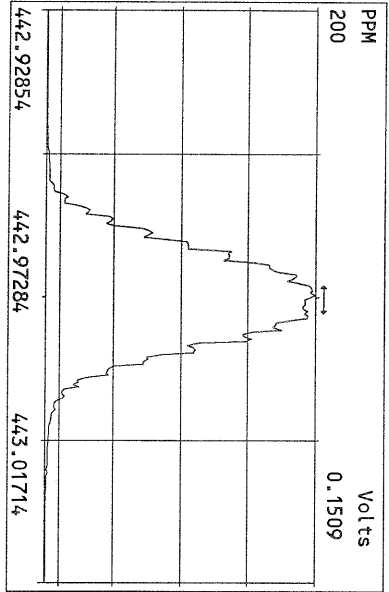
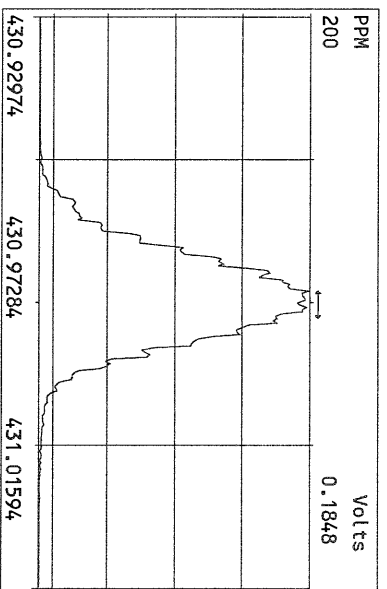
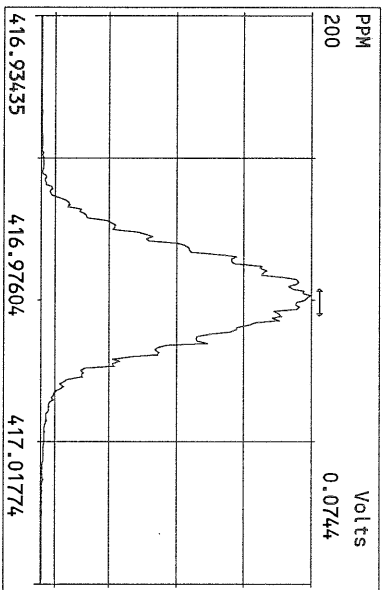
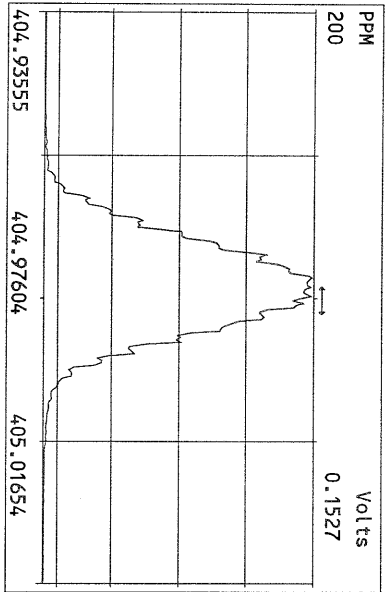
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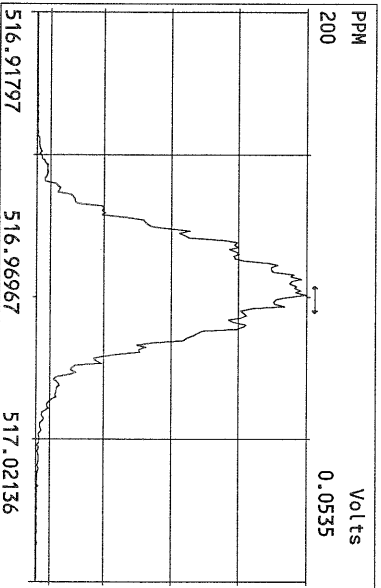
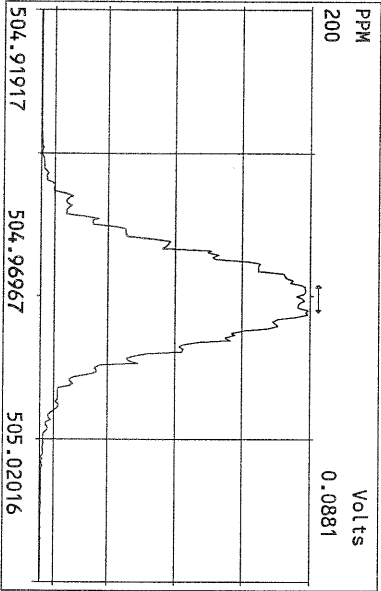
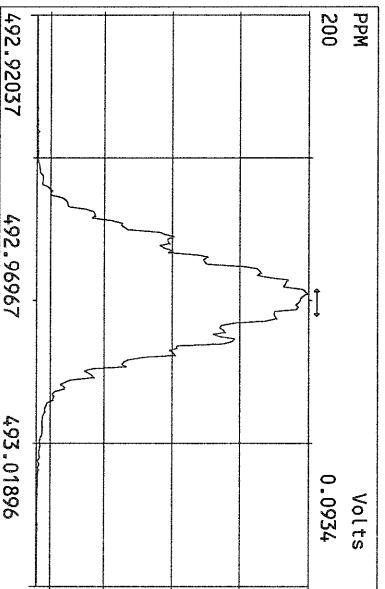
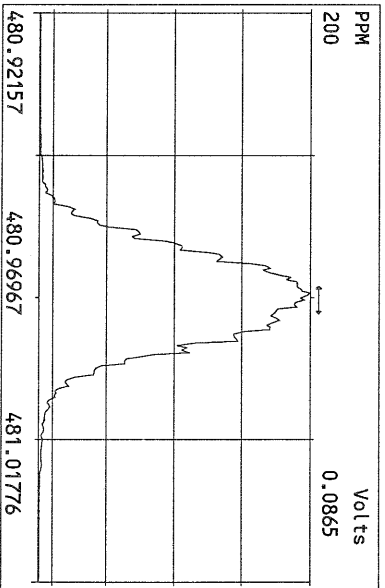
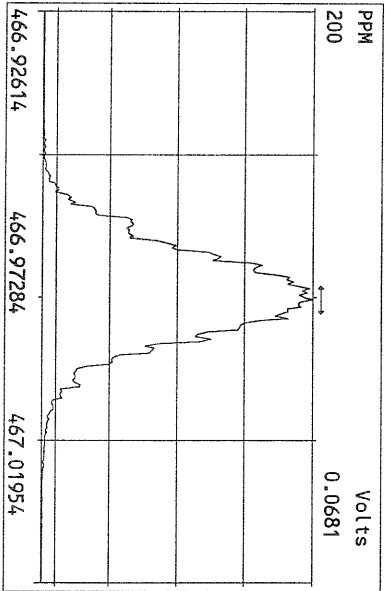
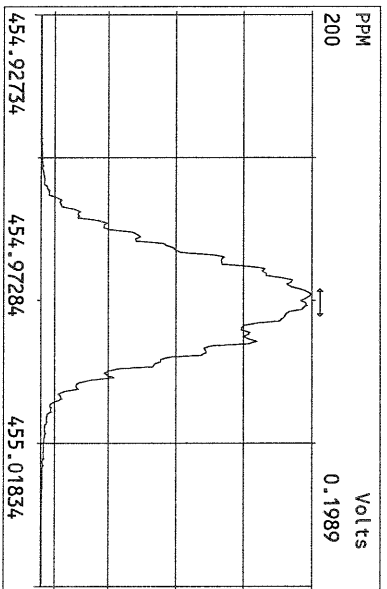
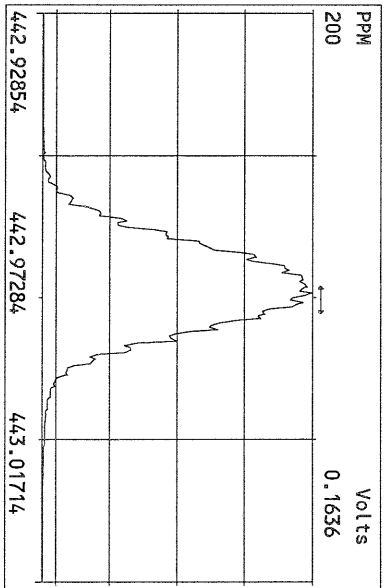
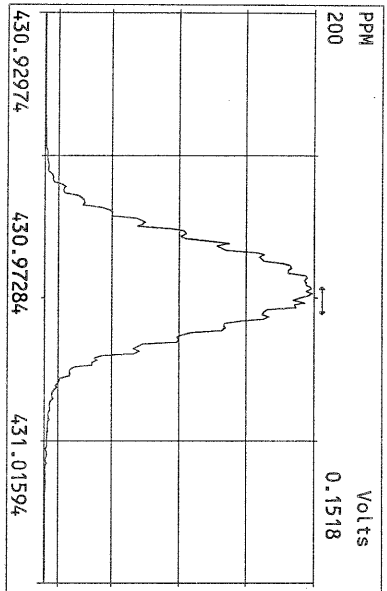
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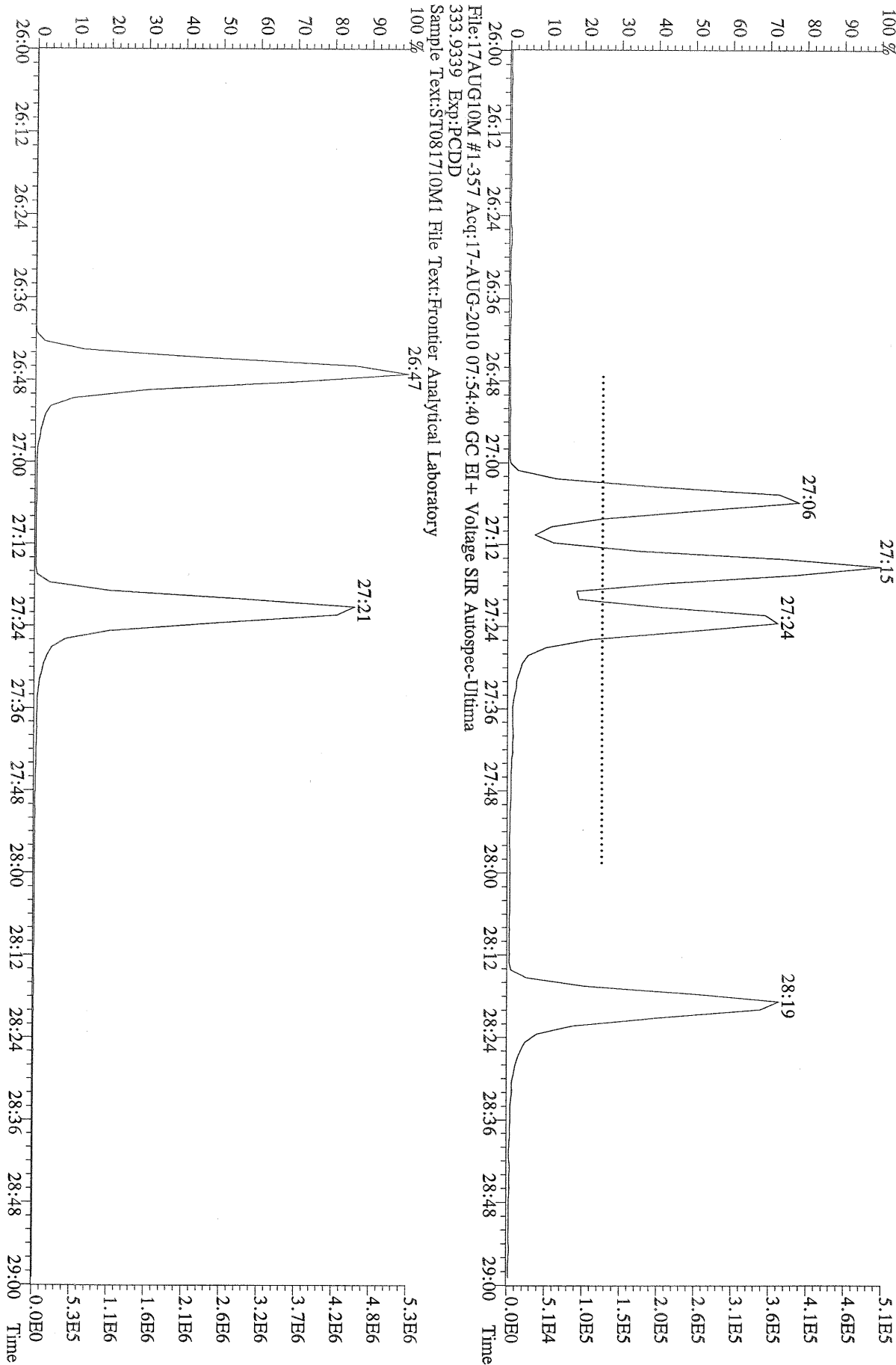




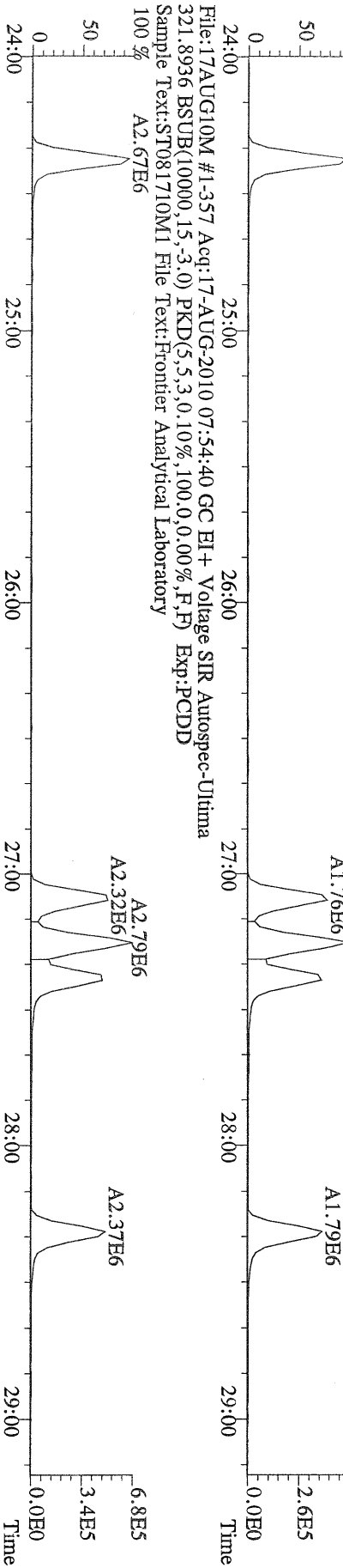




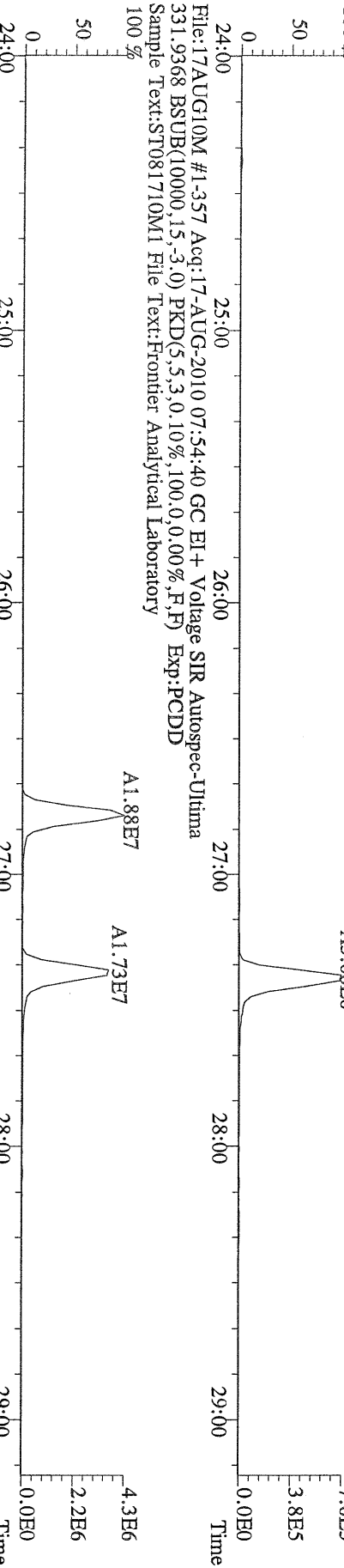
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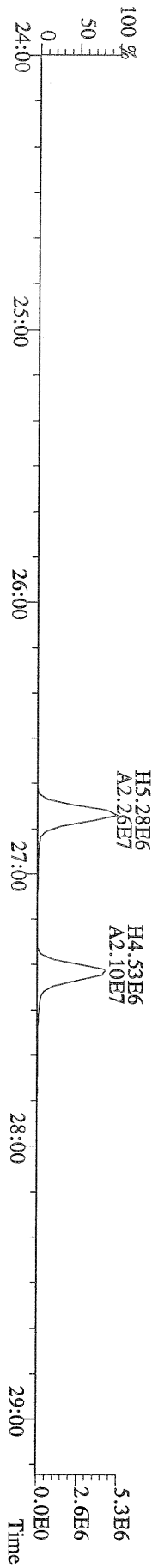
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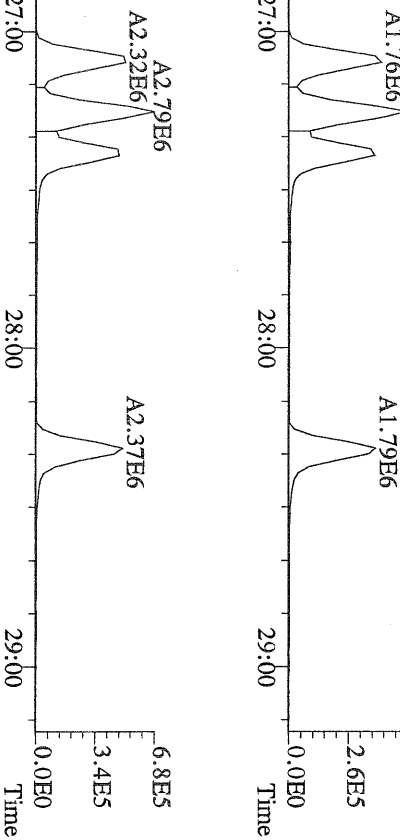
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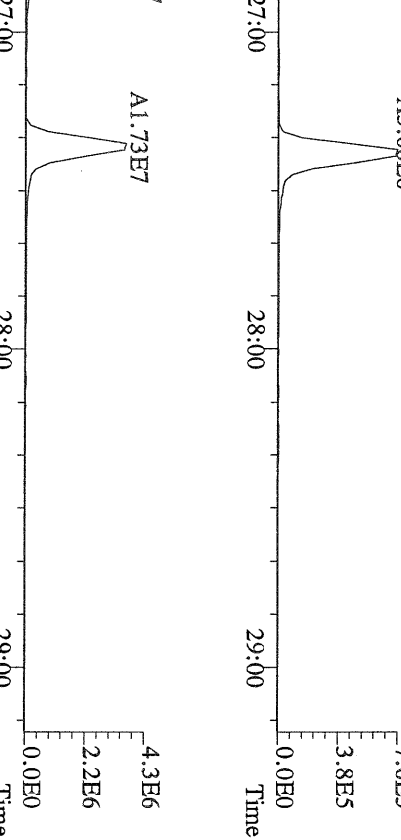
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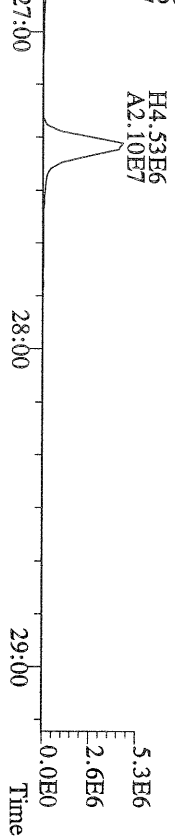
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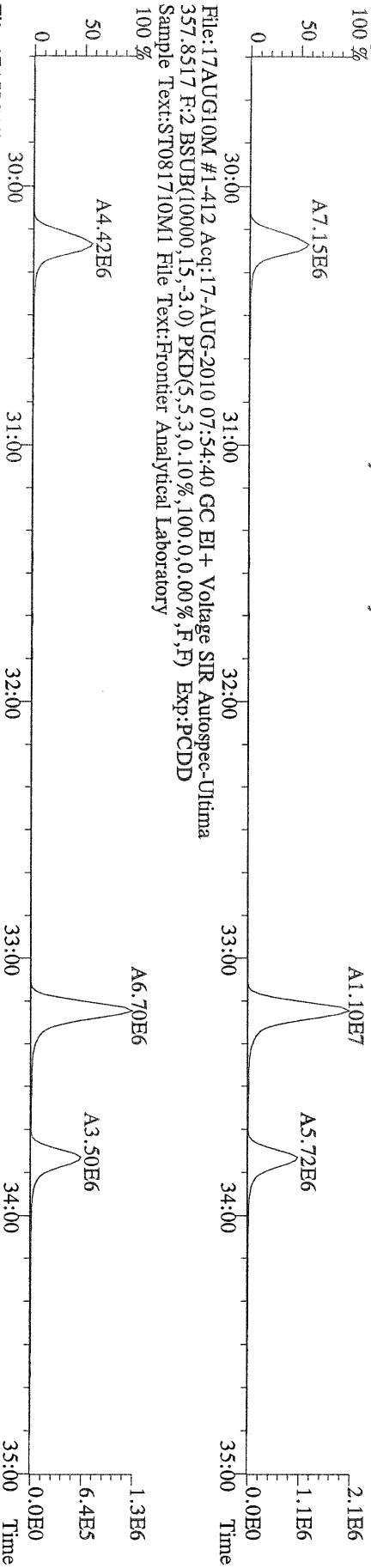
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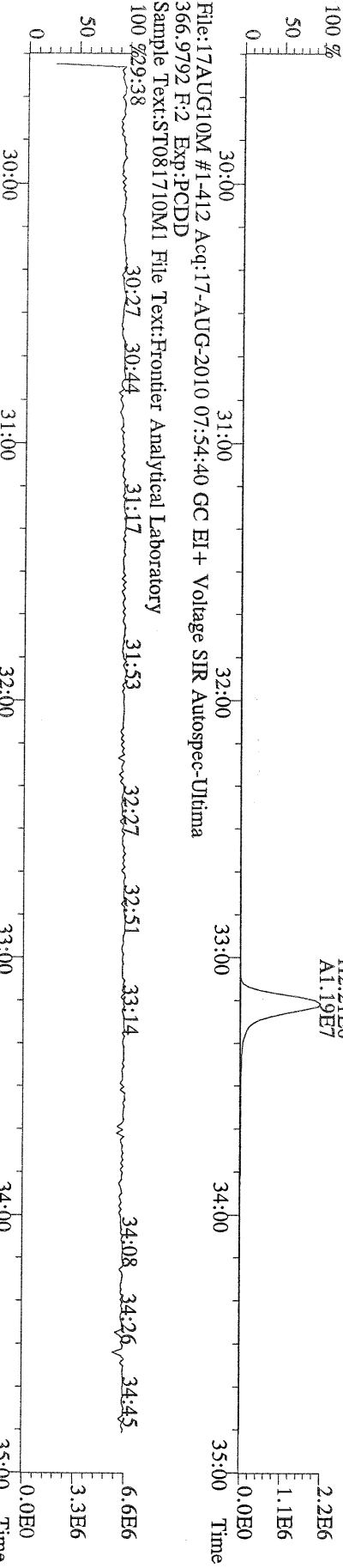
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A2.26E7



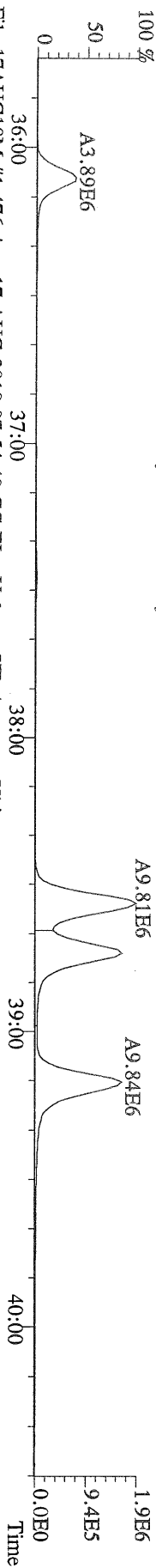
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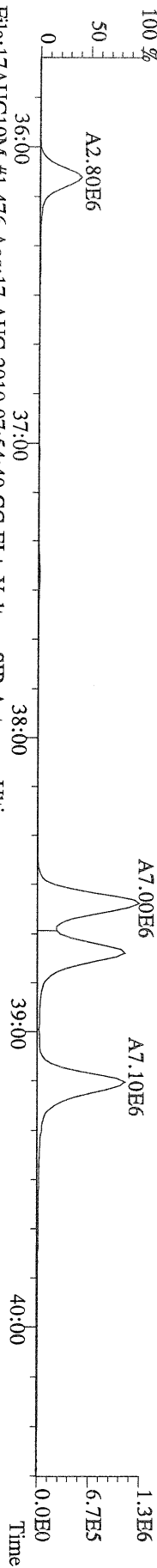
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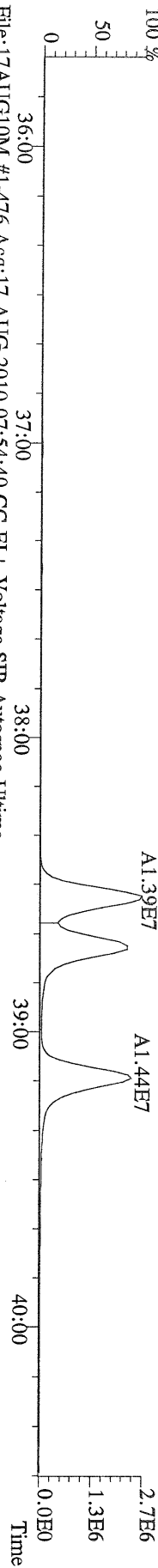
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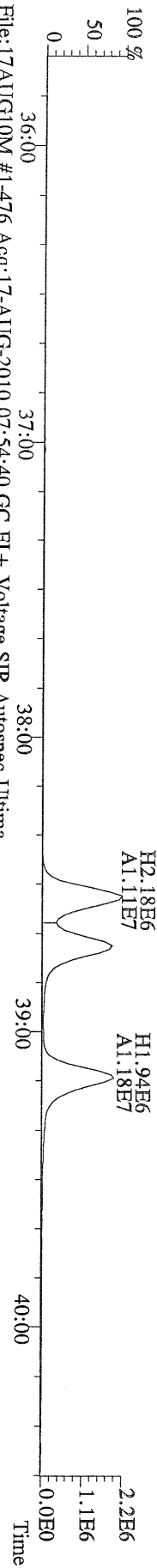
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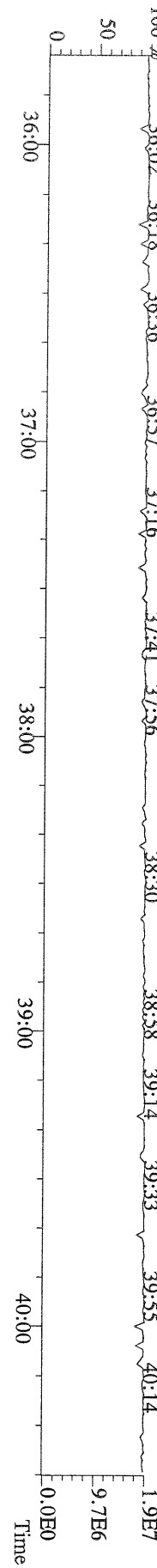
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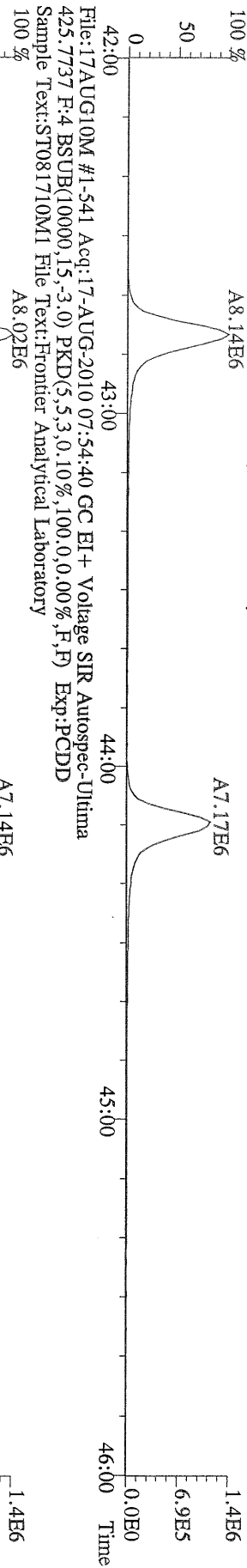
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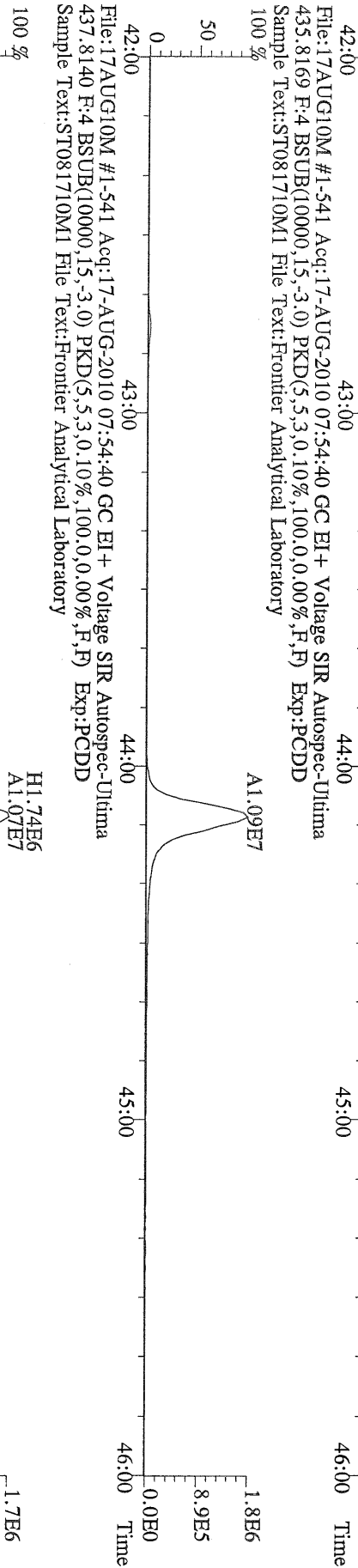
File:17AUG10M #1-476 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Utima
380.9760 F:3 Exp:PCDD
Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



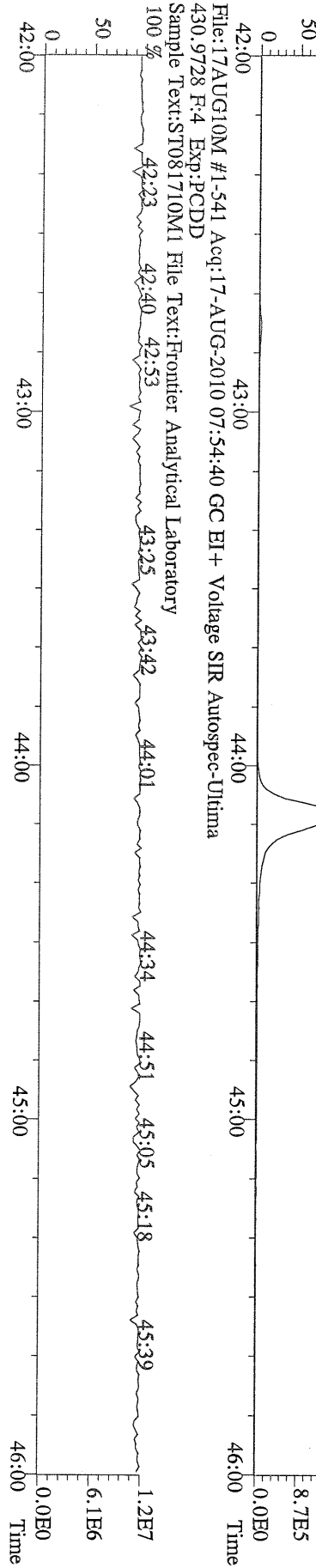
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423.7767 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



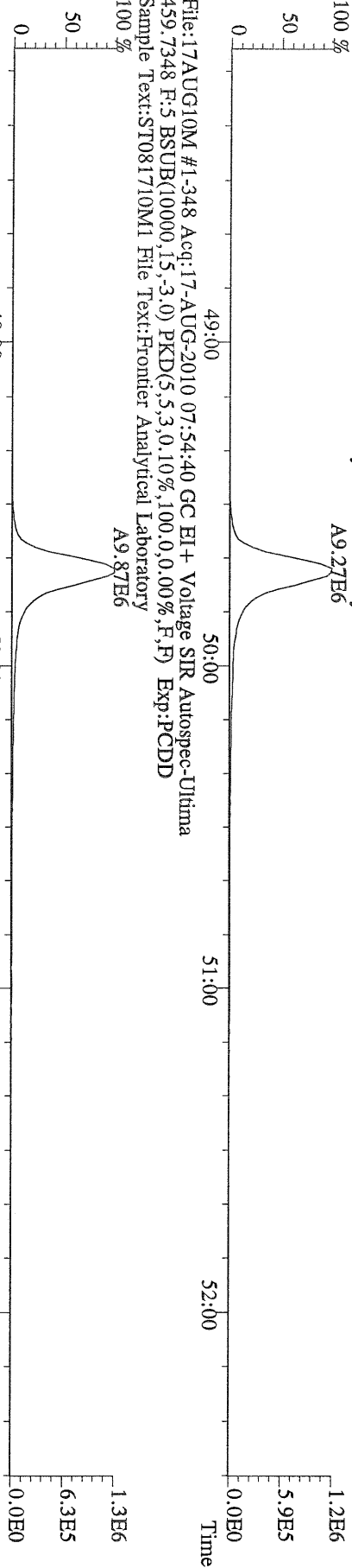
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435.8169 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



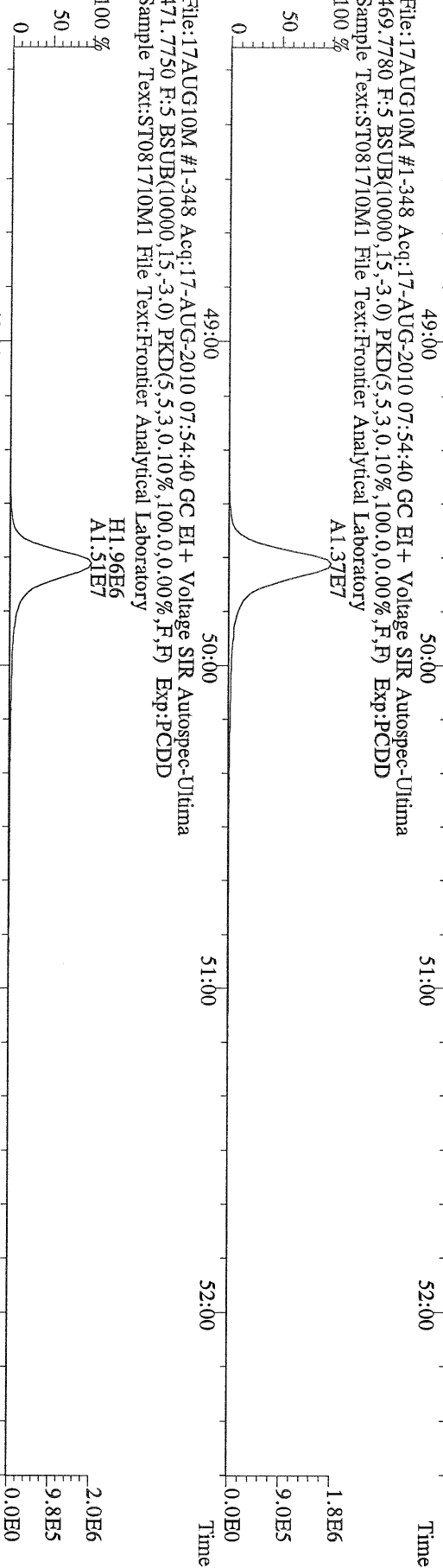
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430.9728 F:4 Exp:PCDD
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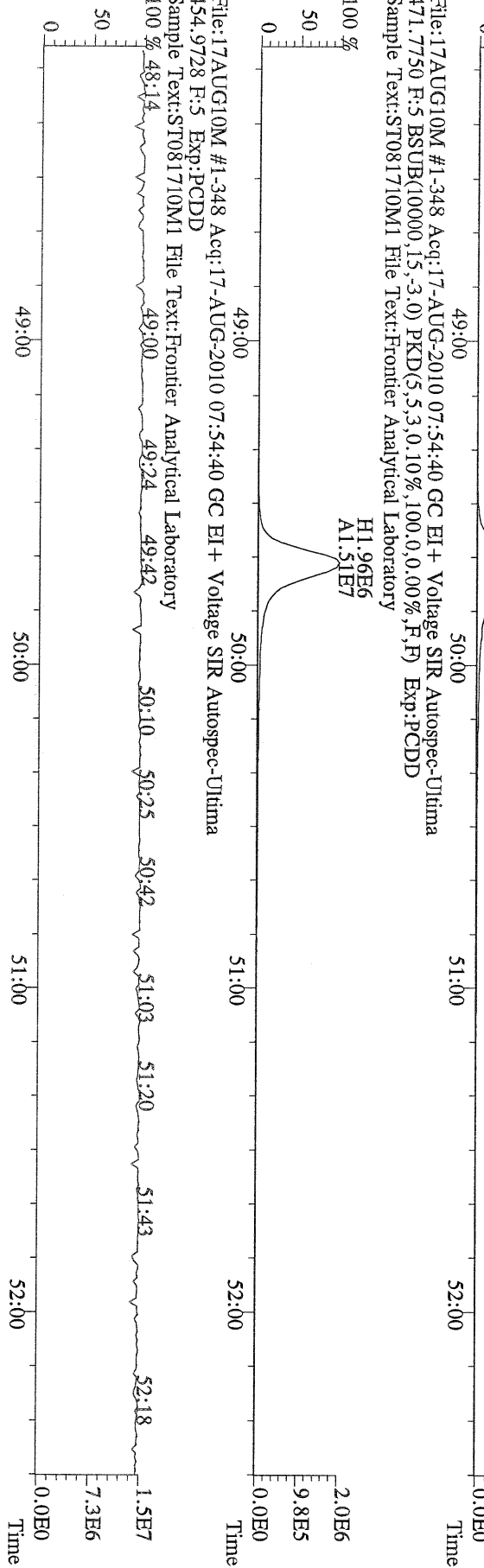
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457.7377 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory
100 %



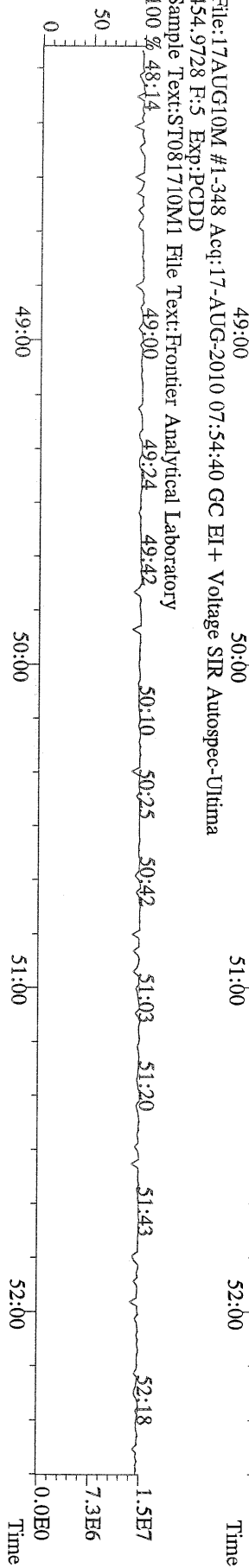
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469.7780 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory
100 %



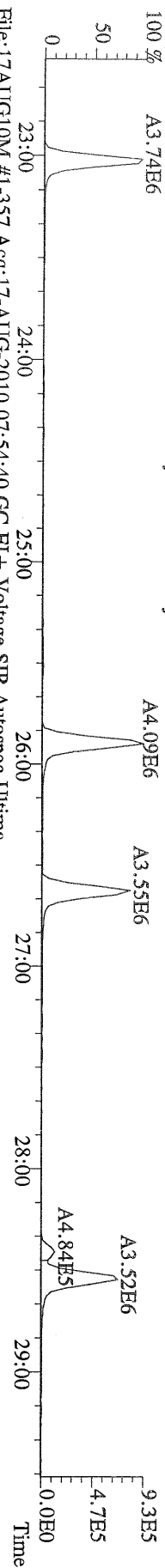
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Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory
100 %



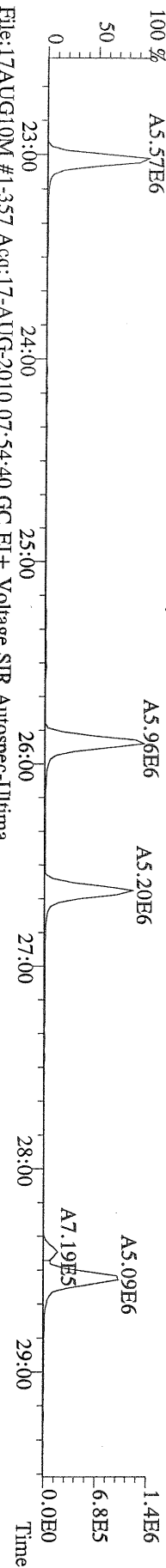
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454.9728 F:5 Exp:PCDD
Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory
100 %



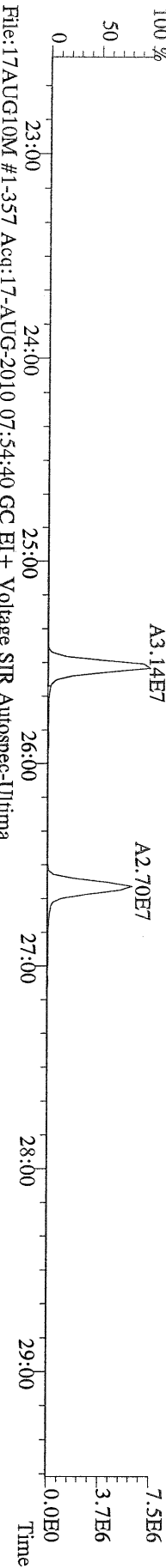
File:17AUG10M #1-357 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



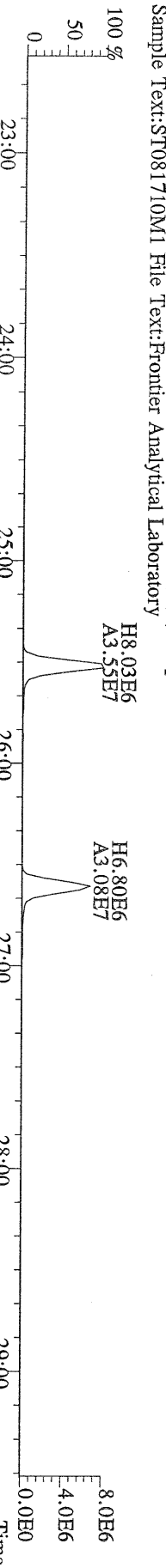
File:17AUG10M #1-357 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



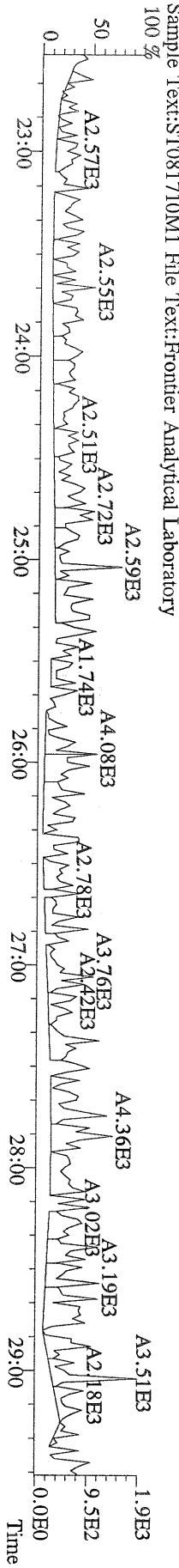
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 315.9419 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



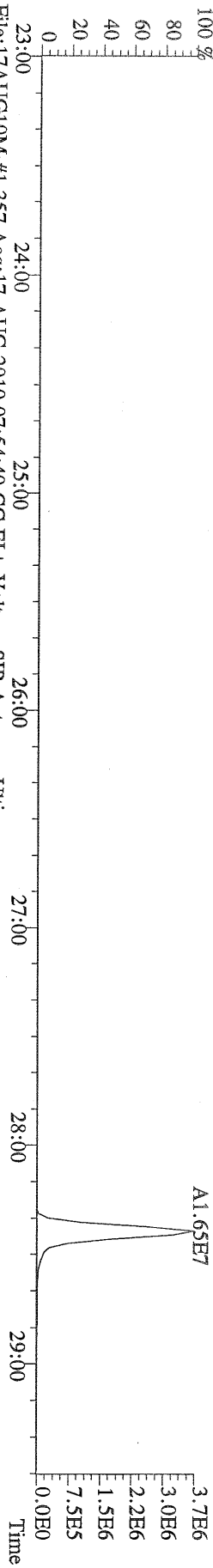
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 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



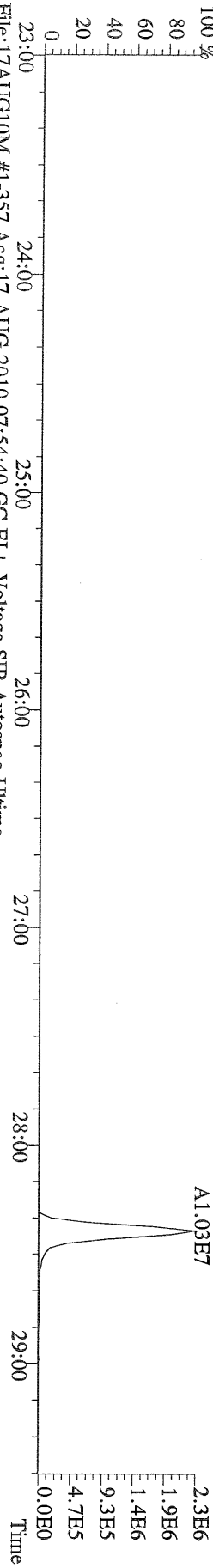
File:17AUG10M #1-357 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 BSUB(10000,15,-3.0) PKD(5,5,3,0,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



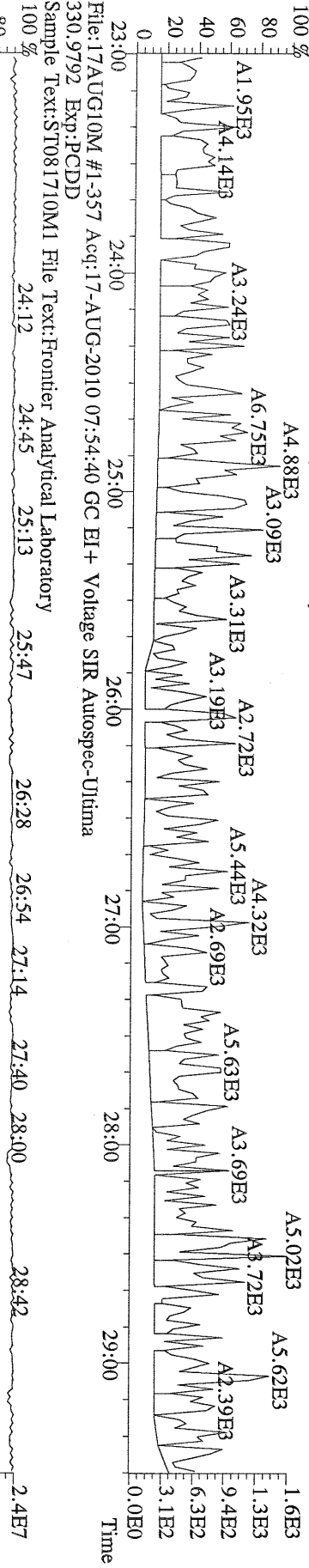
File:17AUG10M #1-357 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



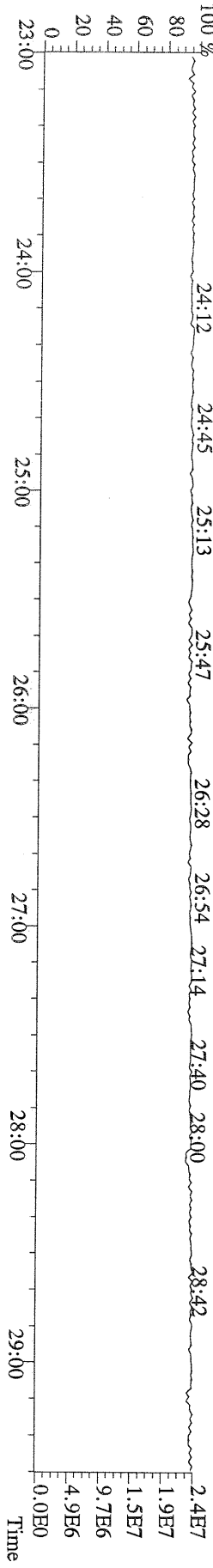
File:17AUG10M #1-357 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



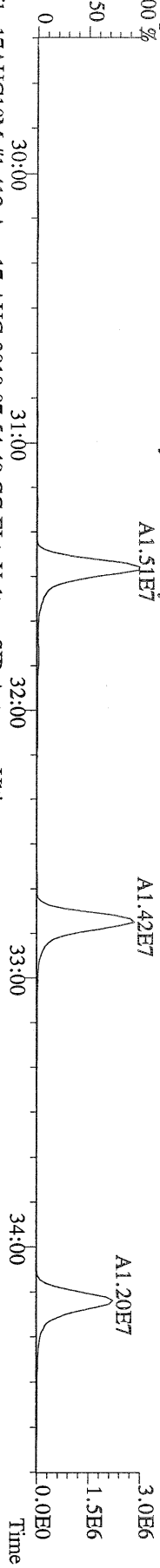
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 409.7974 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



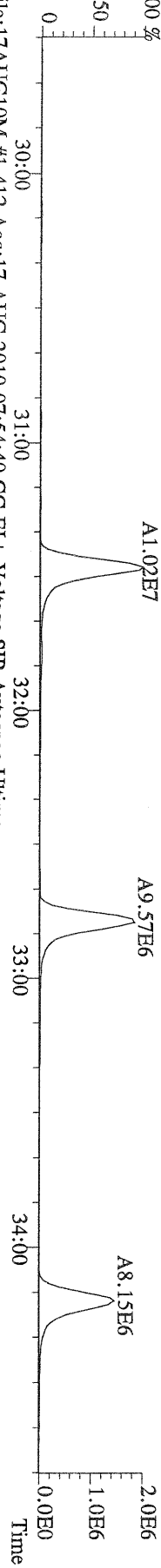
File:17AUG10M #1-357 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



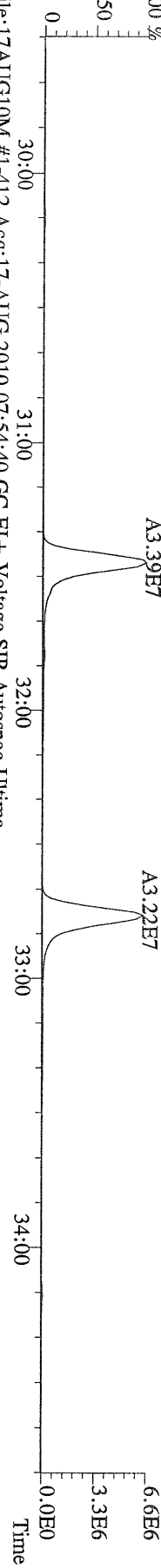
File:17AUG10M #1-412 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



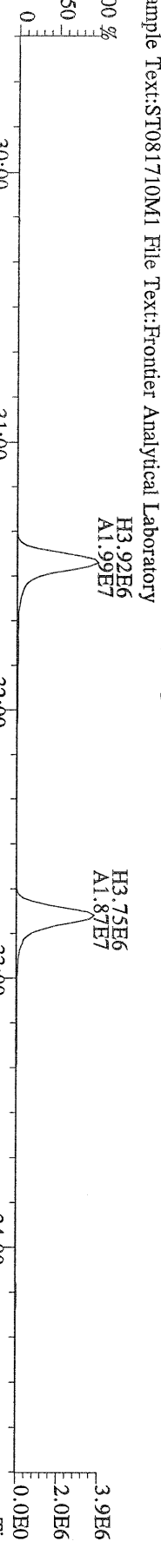
File:17AUG10M #1-412 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



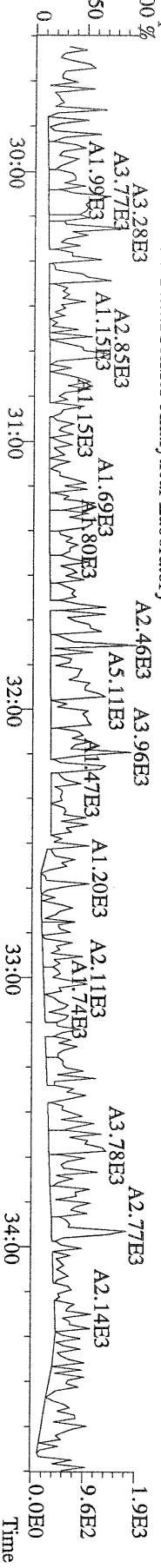
File:17AUG10M #1-412 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



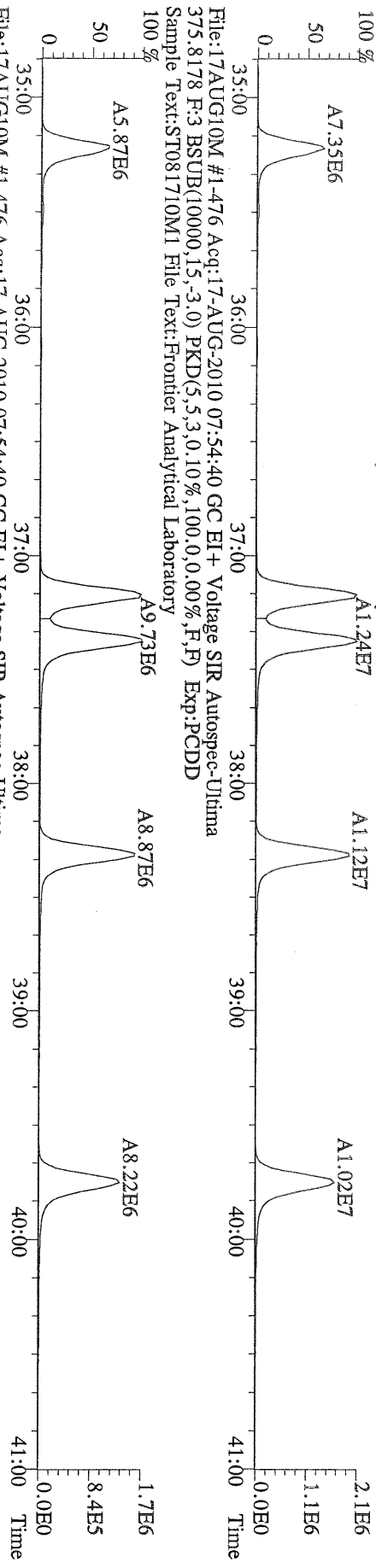
File:17AUG10M #1-412 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



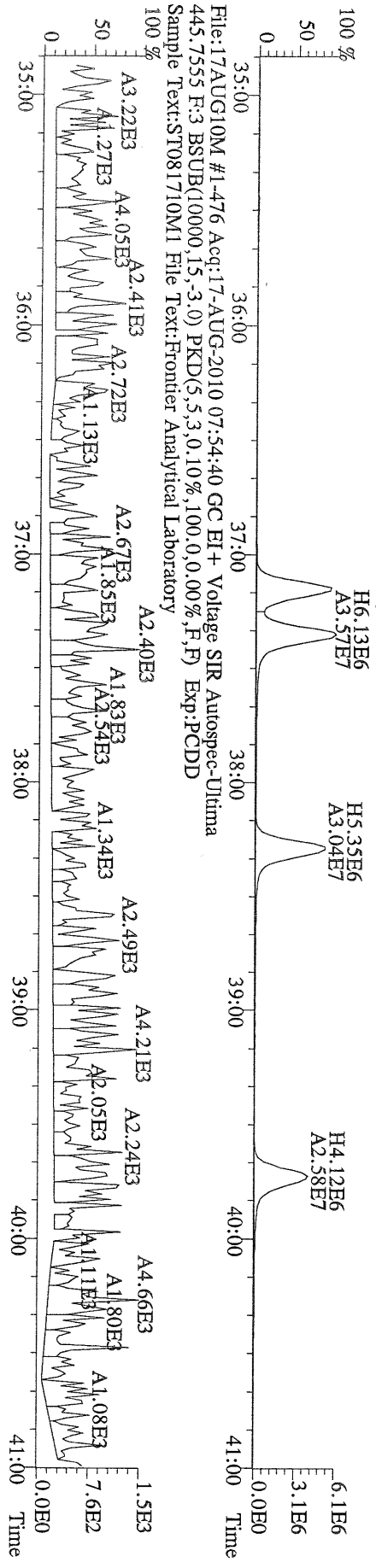
File:17AUG10M #1-412 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



File:17AUG10M #1-476 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Fronter Analytical Laboratory



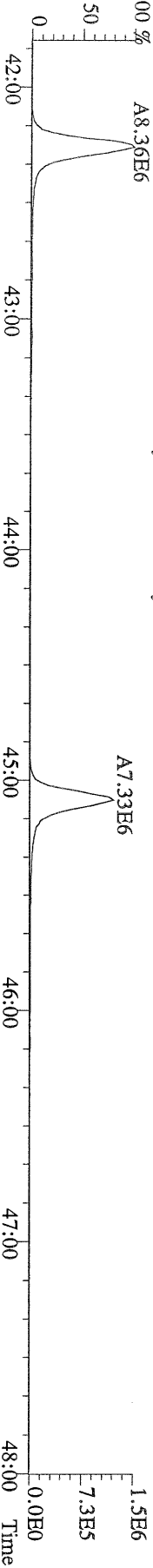
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 383.8639 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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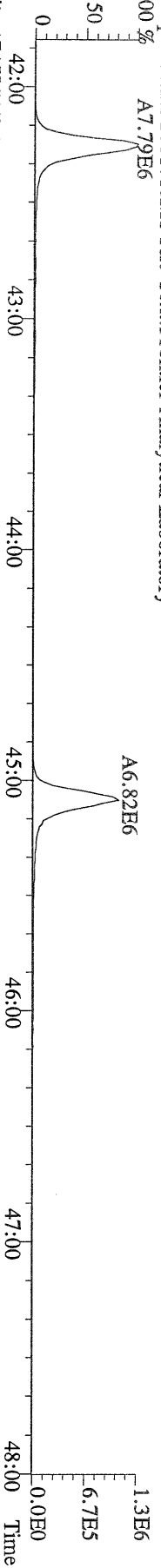
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 445.7555 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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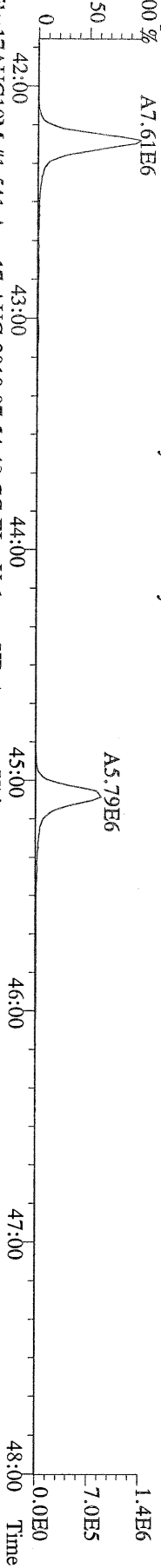
File:17AUG10M #1-541 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



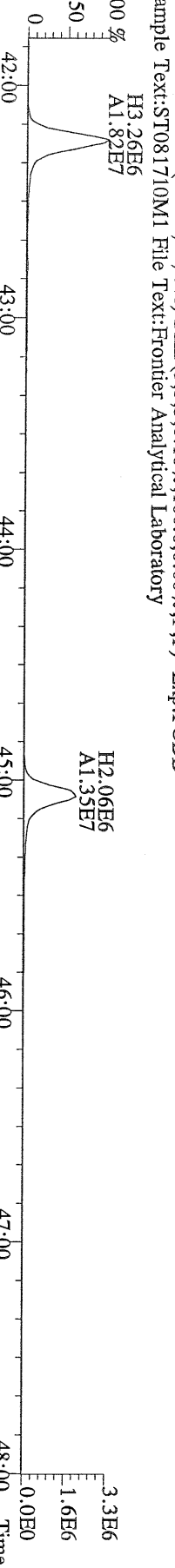
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 409.7788 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



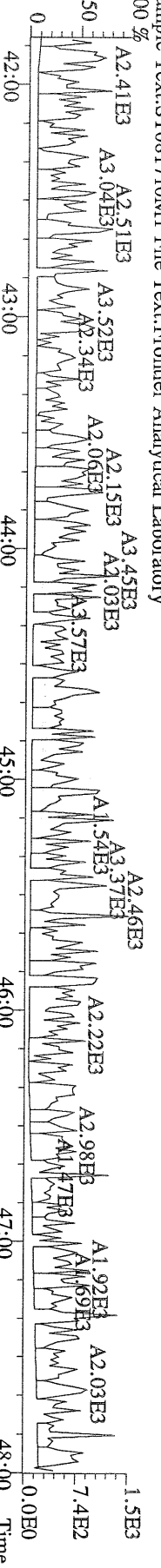
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 417.8253 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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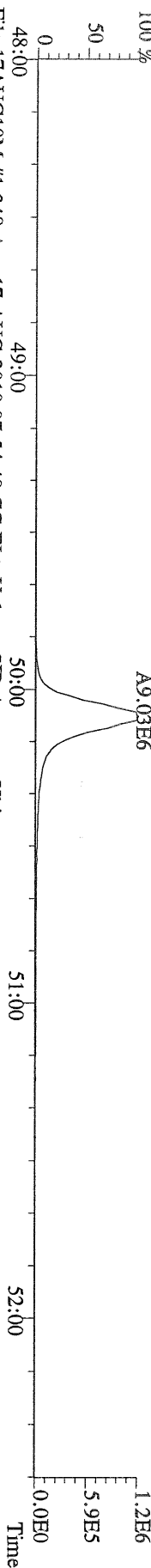
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 419.8220 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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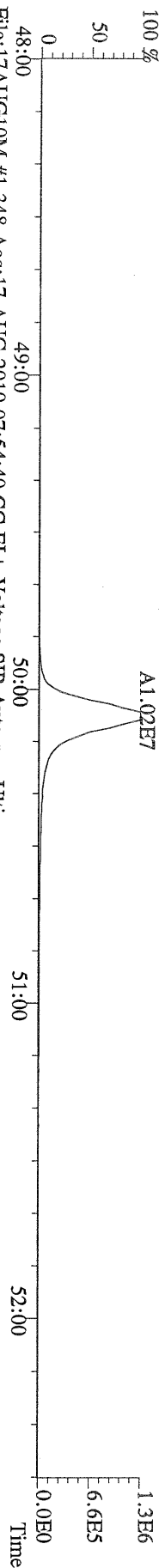
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 479.7165 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



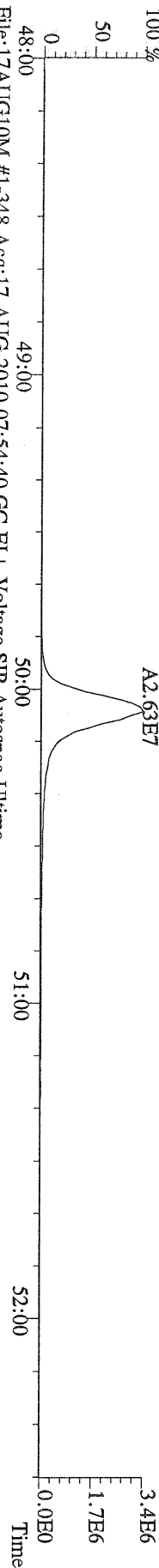
File:17AUG10M #1-348 Acq:17-AUG-2010 07:54:40 GC EI+ Voltage SIR Autospec-Ultime
441.7428 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



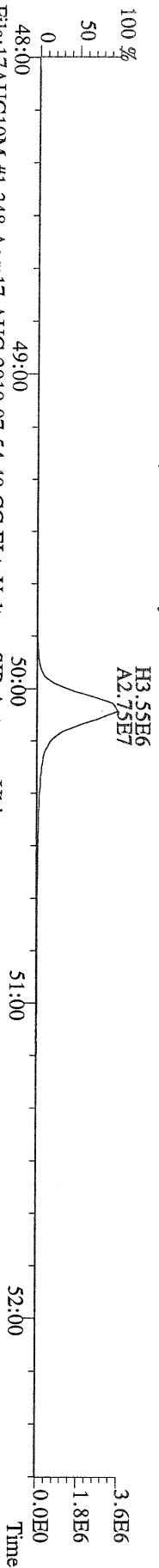
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443.7398 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory



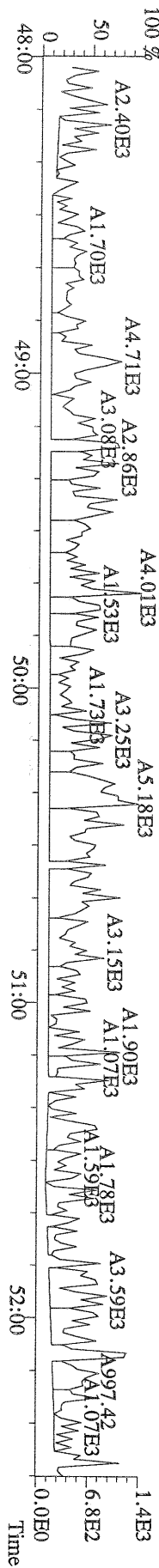
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453.7831 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory

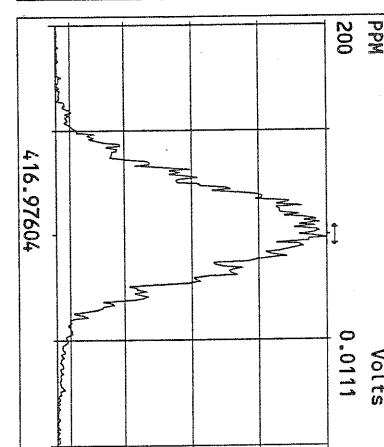
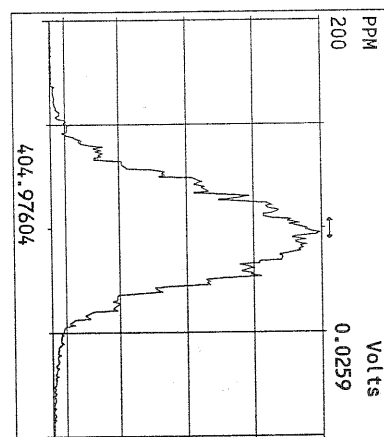
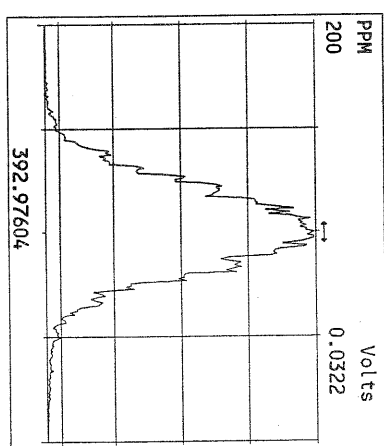
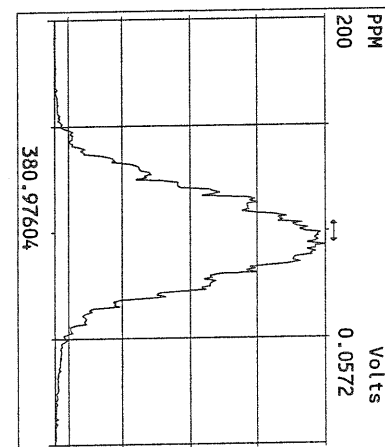
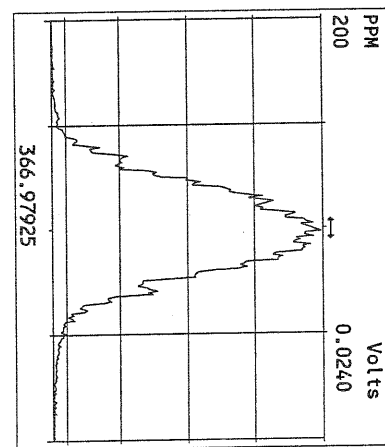
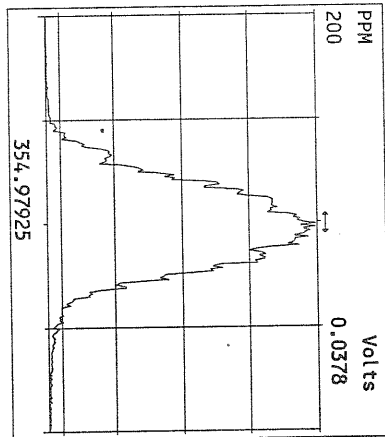
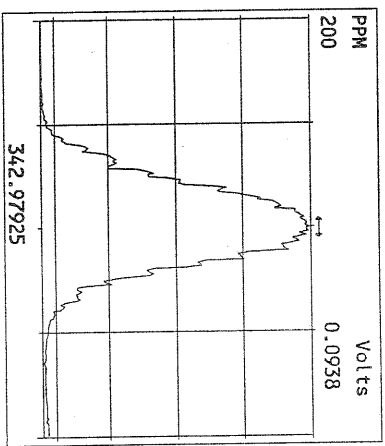
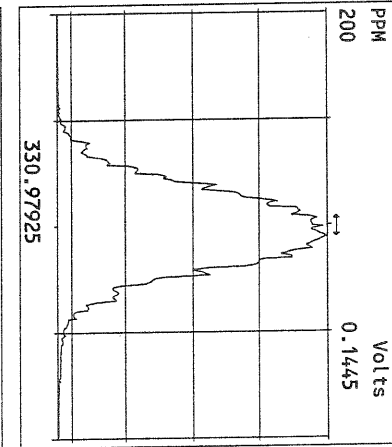
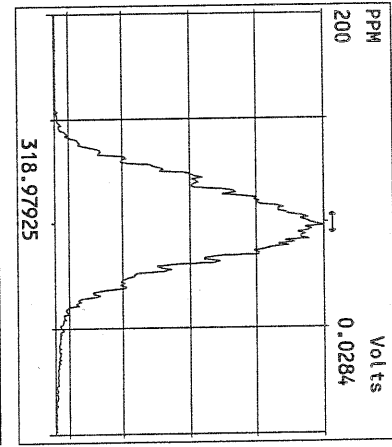
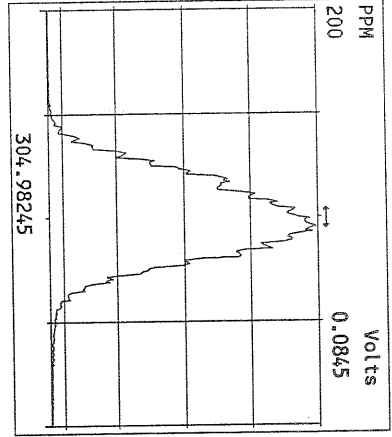
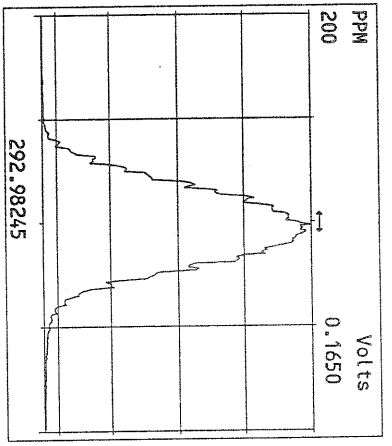


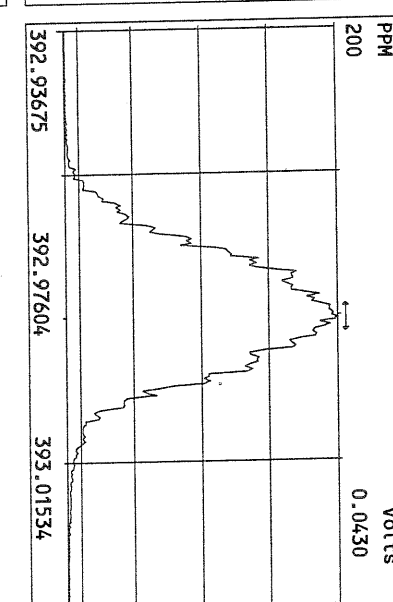
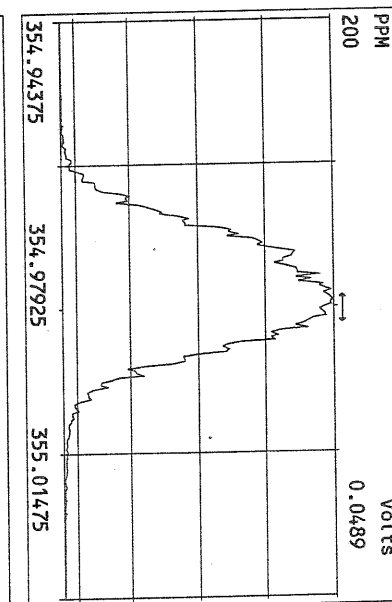
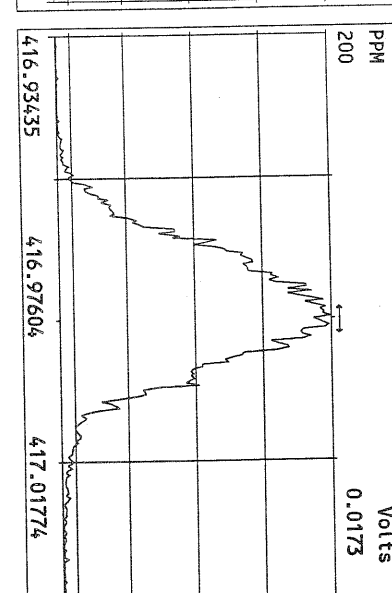
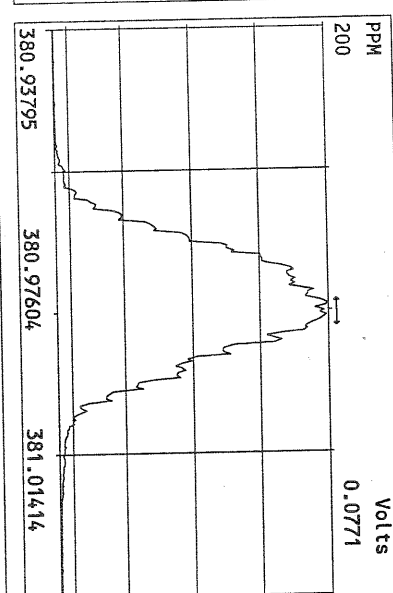
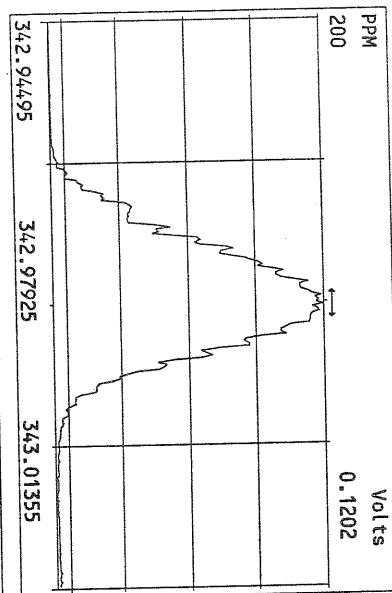
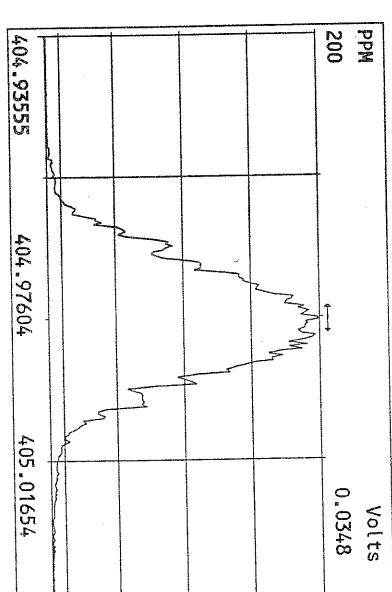
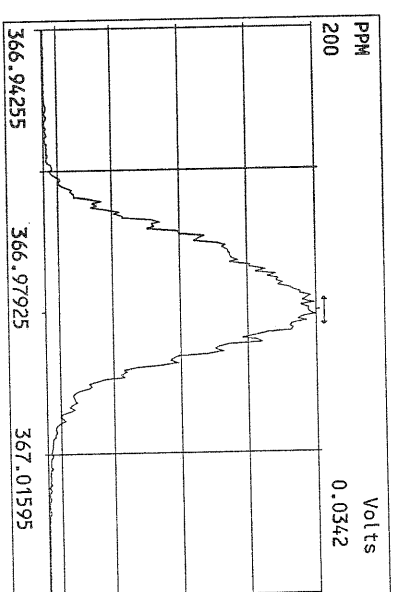
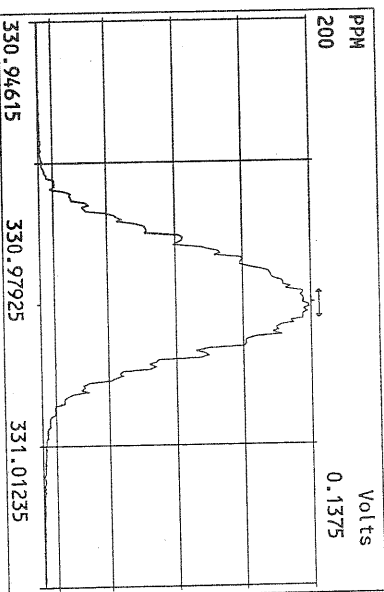
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455.7801 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M1 File Text:Frontier Analytical Laboratory

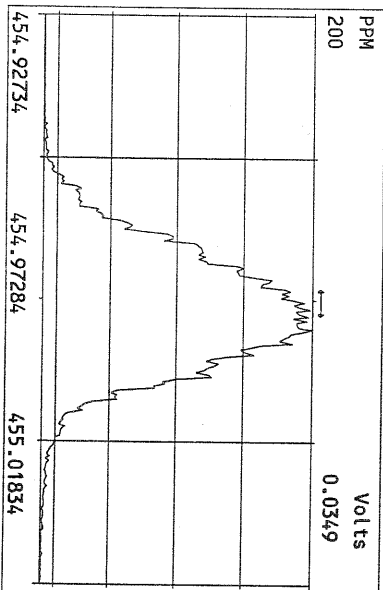
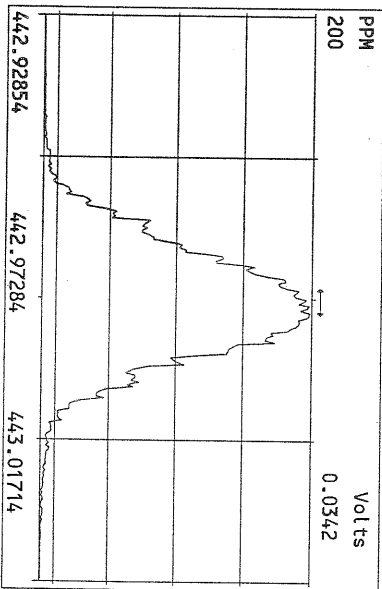
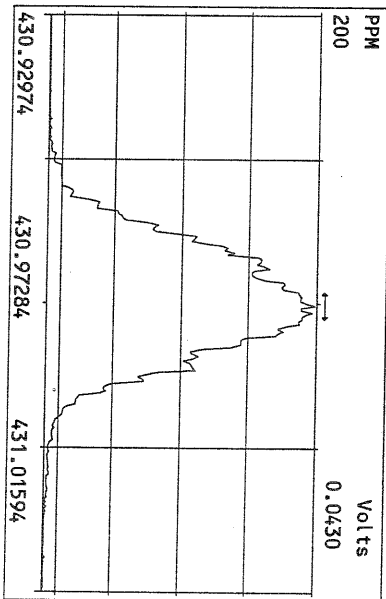
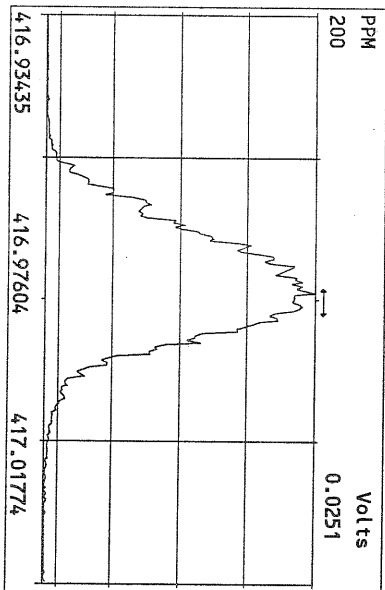
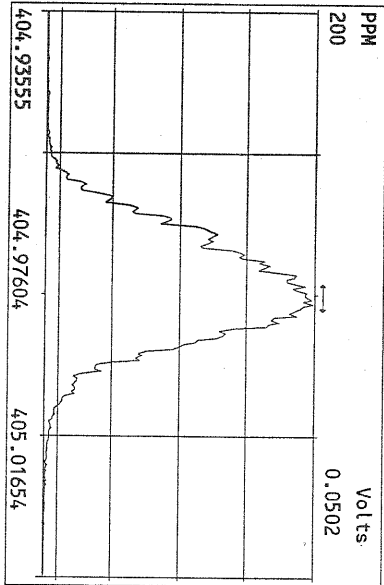
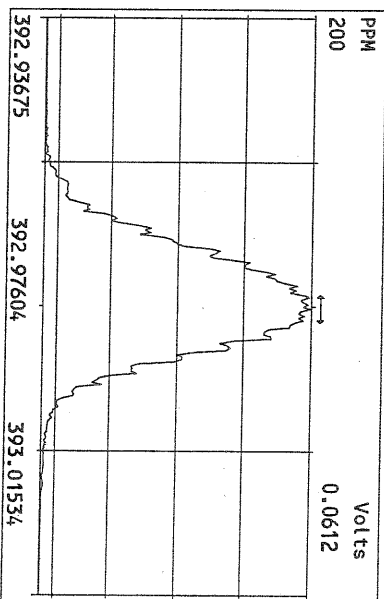
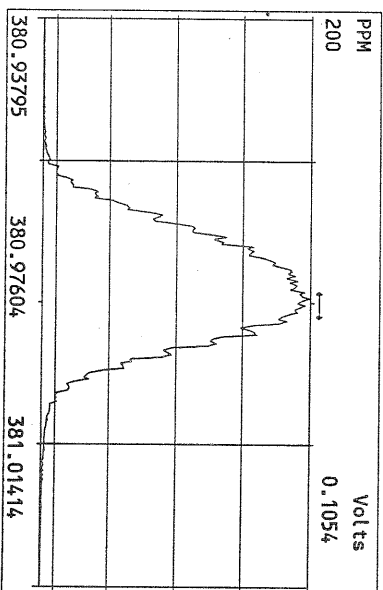
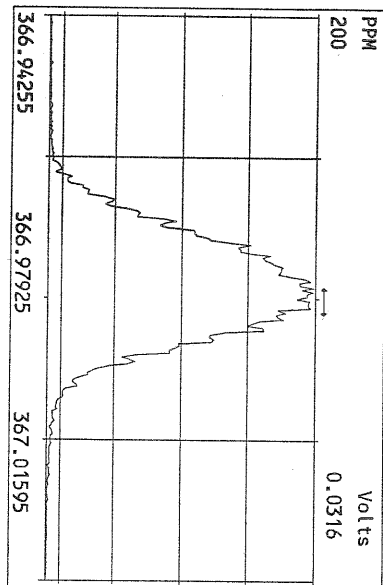


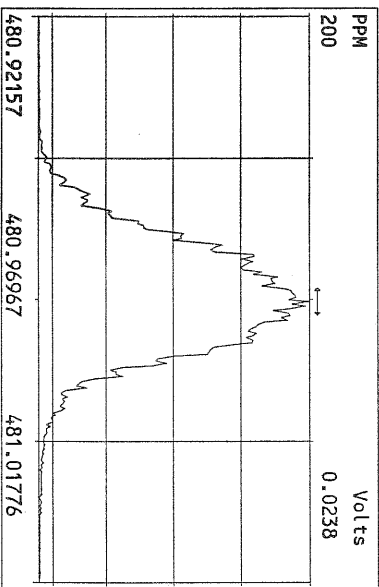
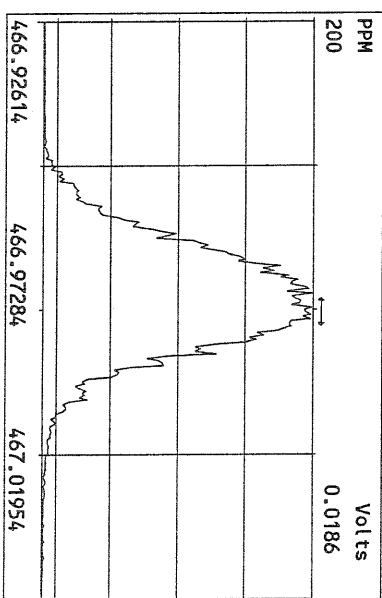
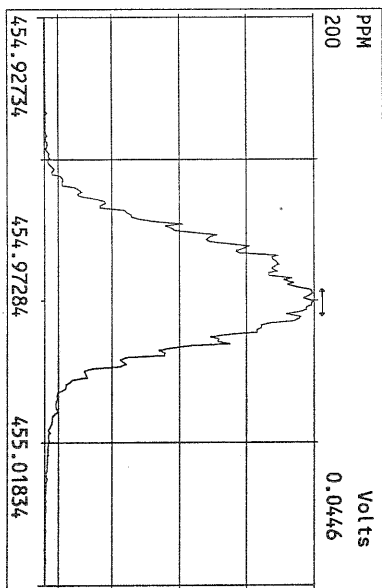
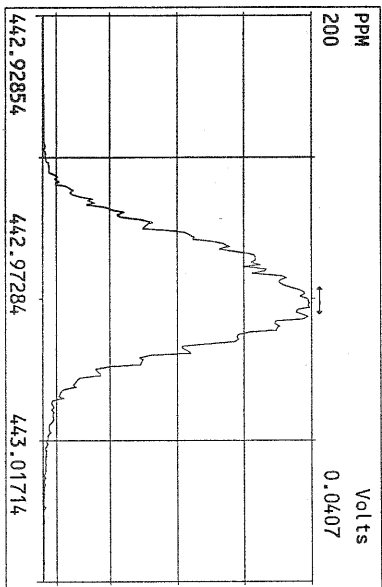
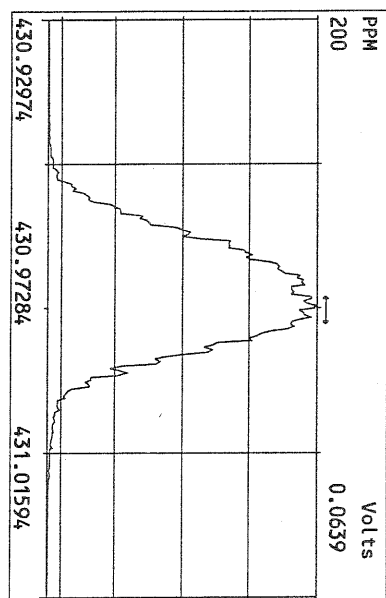
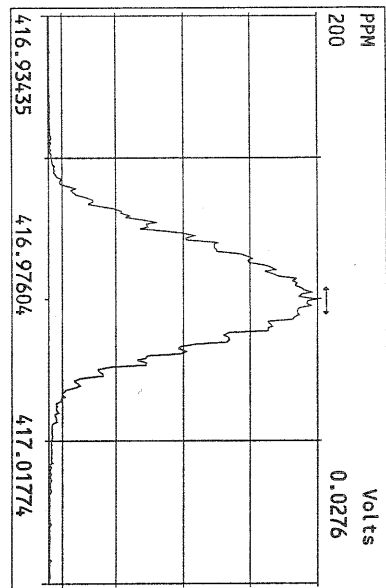
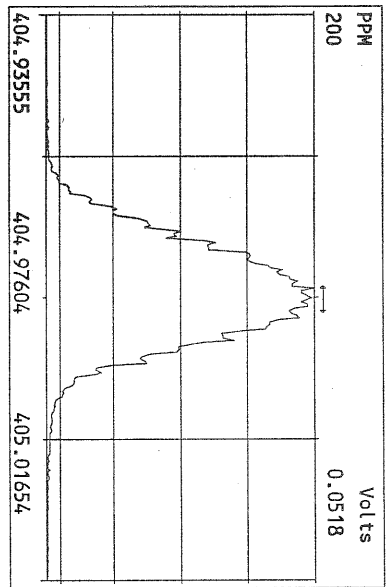
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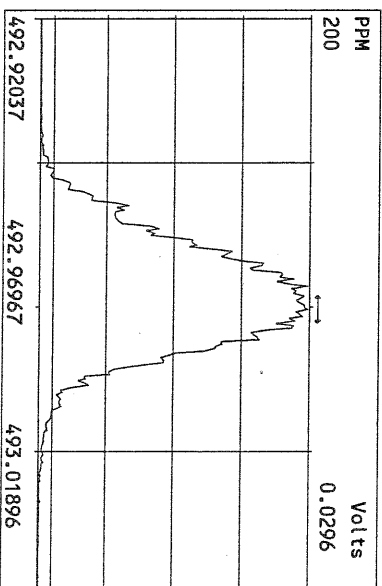
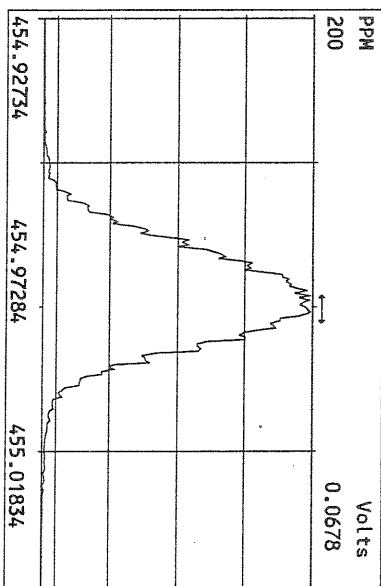
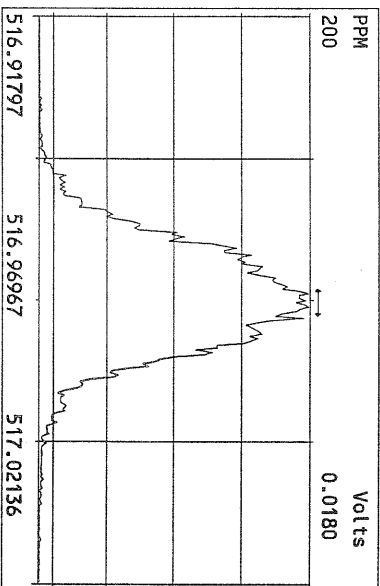
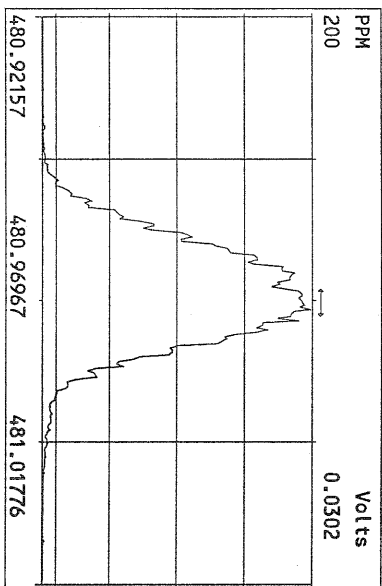
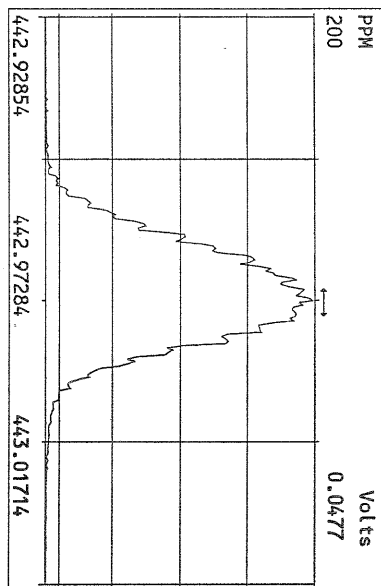
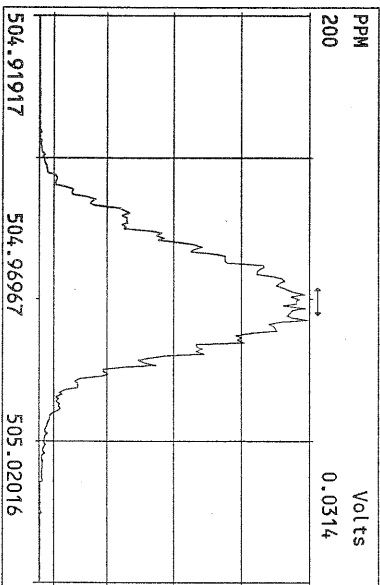
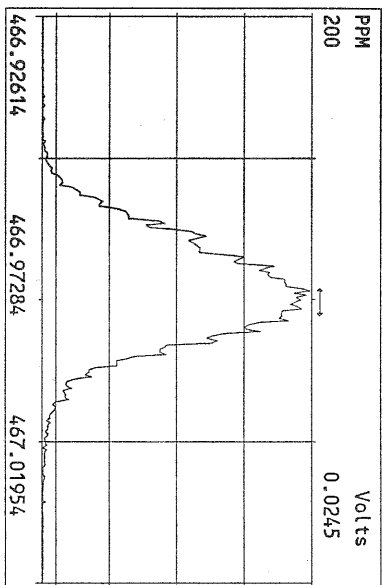
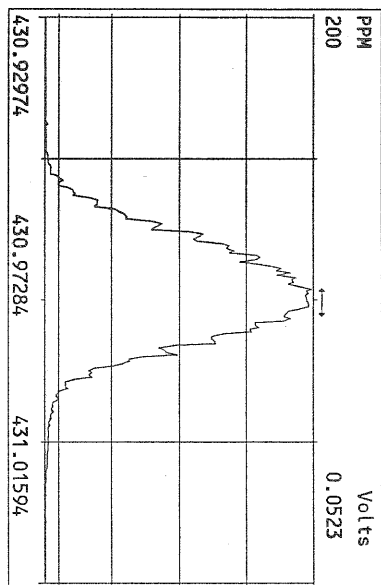












USEPA - ITD

FORM 4A
PCDD/PCDF CALIBRATION VERIFICATION

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Initial Calibration Date: 5/12/10

Instrument ID: FAL3

GC Column ID: DB5

VER Data Filename: 17AUG10M Sam:16

Analysis Date: 17-AUG-10 21:45:19

NATIVE ANALYTES	M/Z'S	ION	QC	ACCEPT	CONC.	CONC.
	FORMING	ABUND.	LIMITS		FOUND	RANGE
	RATIO (1)	RATIO	(2)		FOUND	(ng/mL) (3)
2,3,7,8-TCDD	M/M+2	0.74	0.65-0.89	y	10.8	7.80 - 12.9
1,2,3,7,8-PeCDD	M+2/M+4	1.63	1.32-1.78	y	51.1	39.0 - 65.0
1,2,3,4,7,8-HxCDD	M+2/M+4	1.41	1.05-1.43	y	50.8	39.0 - 64.0
1,2,3,6,7,8-HxCDD	M+2/M+4	1.41	1.05-1.43	y	49.3	39.0 - 64.0
1,2,3,7,8,9-HxCDD	M+2/M+4	1.42	1.05-1.43	y	51.3	41.0 - 61.0
1,2,3,4,6,7,8-HpCDD	M+2/M+4	1.03	0.88-1.20	y	47.2	43.0 - 58.0
OCDD	M+2/M+4	1.00	0.76-1.02	y	106	79.0 - 126
2,3,7,8-TCDF	M/M+2	0.68	0.65-0.89	y	9.49	8.40 - 12.0
1,2,3,7,8-PeCDF	M+2/M+4	1.49	1.32-1.78	y	50.8	41.0 - 60.0
2,3,4,7,8-PeCDF	M+2/M+4	1.48	1.32-1.78	y	47.8	41.0 - 60.0
1,2,3,4,7,8-HxCDF	M+2/M+4	1.27	1.05-1.43	y	45.9	45.0 - 56.0
1,2,3,6,7,8-HxCDF	M+2/M+4	1.29	1.05-1.43	y	47.7	44.0 - 57.0
2,3,4,6,7,8-HxCDF	M+2/M+4	1.30	1.05-1.43	y	47.0	44.0 - 57.0
1,2,3,7,8,9-HxCDF	M+2/M+4	1.27	1.05-1.43	y	47.4	45.0 - 56.0
1,2,3,4,6,7,8-HpCDF	M+2/M+4	1.09	0.88-1.20	y	46.3	45.0 - 55.0
1,2,3,4,7,8,9-HpCDF	M+2/M+4	1.07	0.88-1.20	y	45.1	43.0 - 58.0
OCDF	M+2/M+4	0.88	0.76-1.02	y	96.2	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: 8Date: 8/18/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:17AUG10M

Instrument: FAL3

GC: DB5

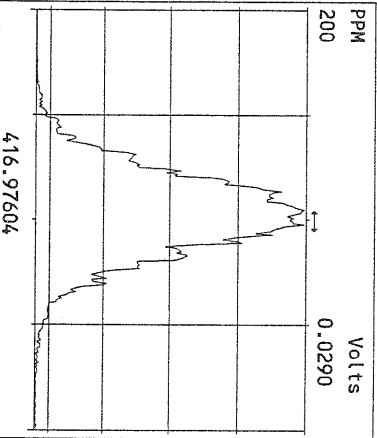
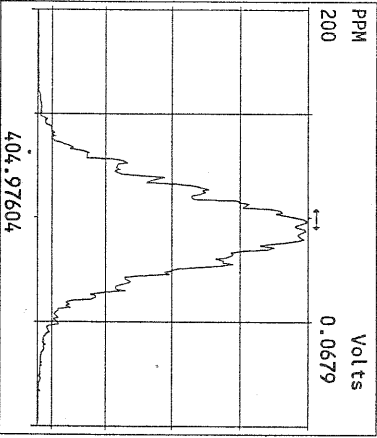
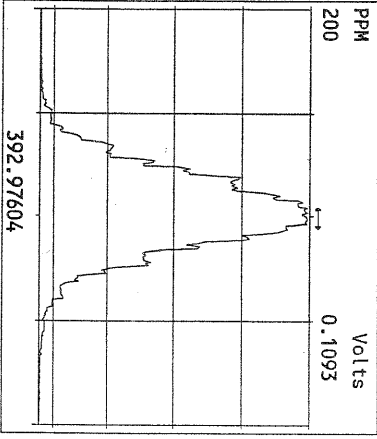
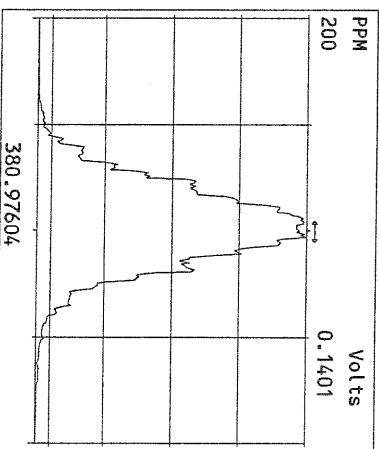
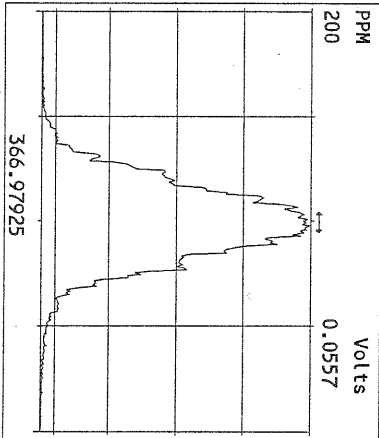
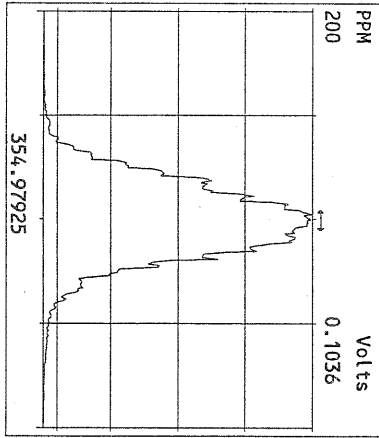
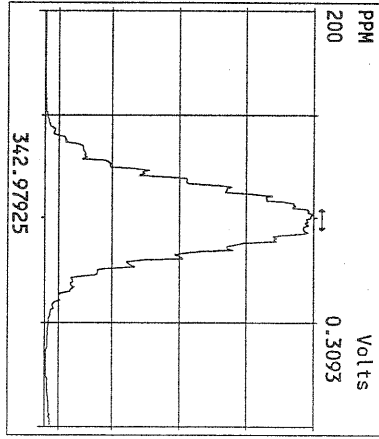
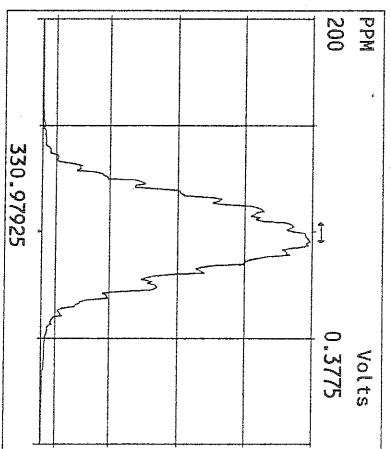
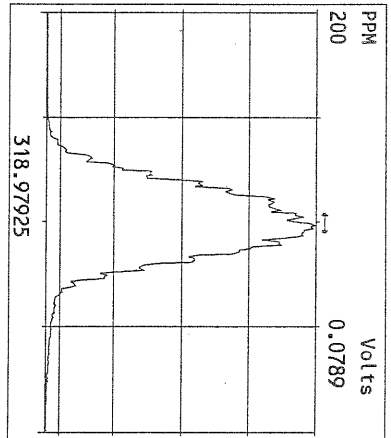
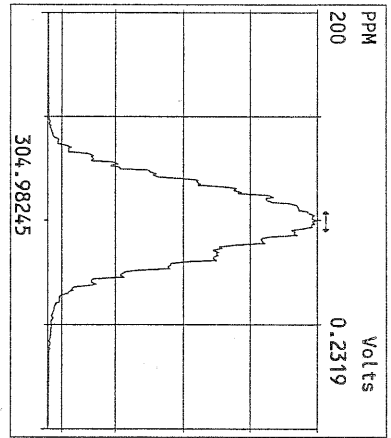
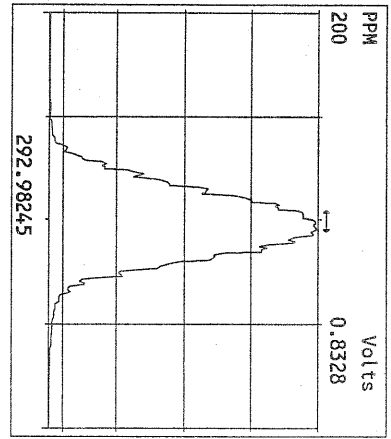
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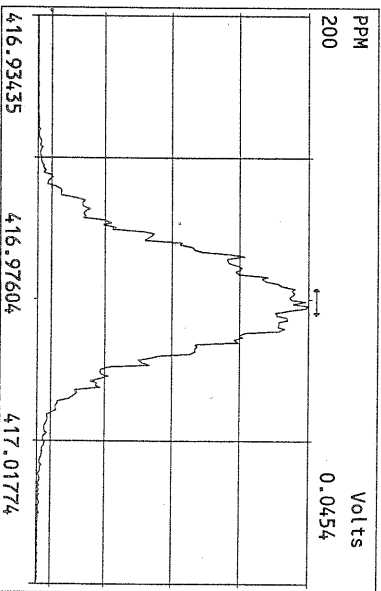
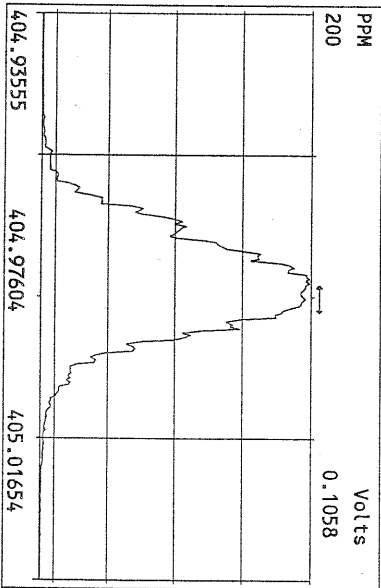
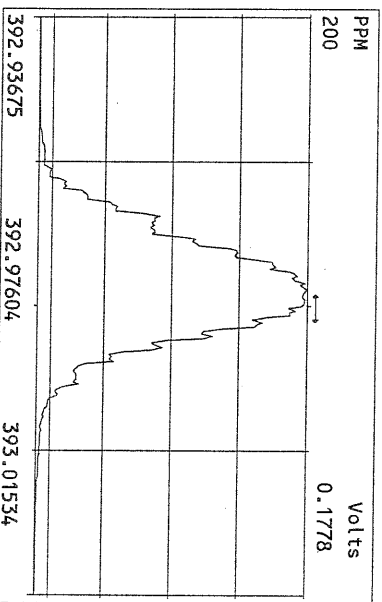
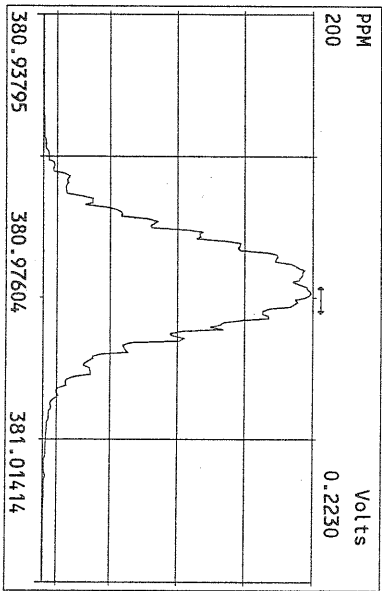
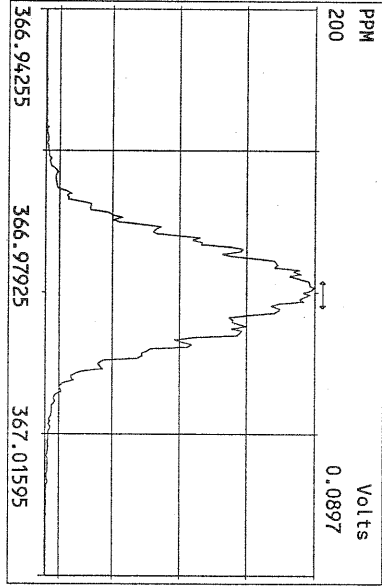
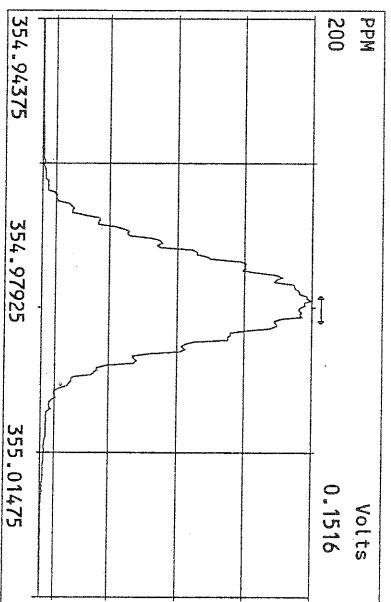
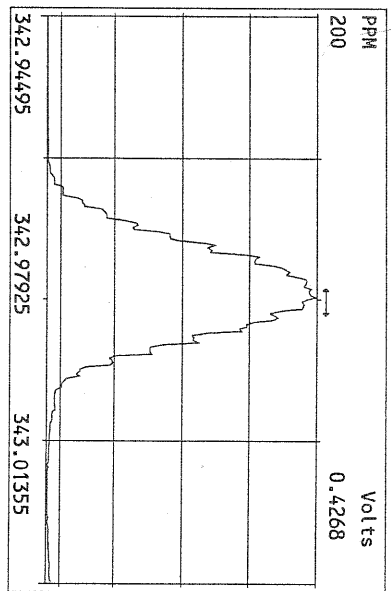
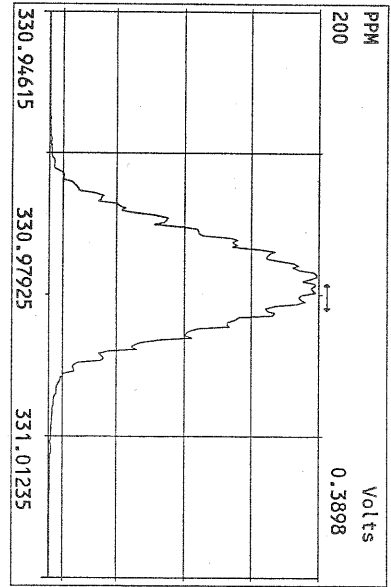
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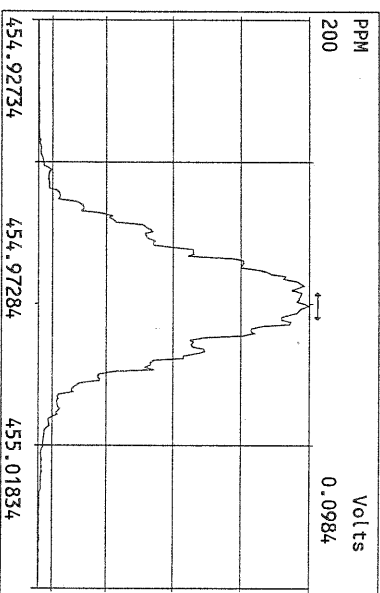
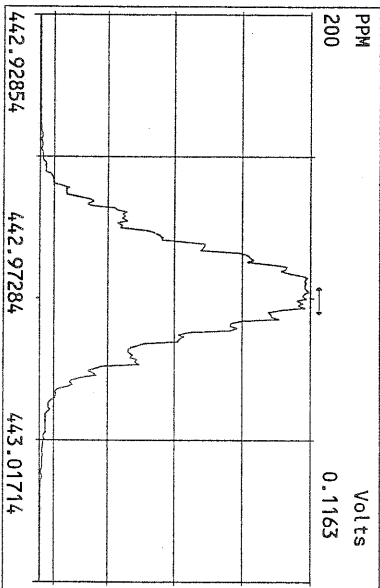
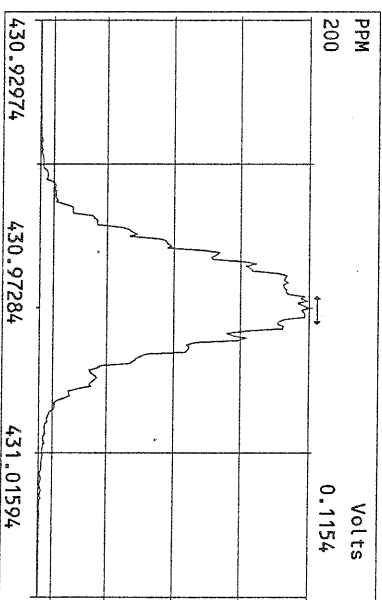
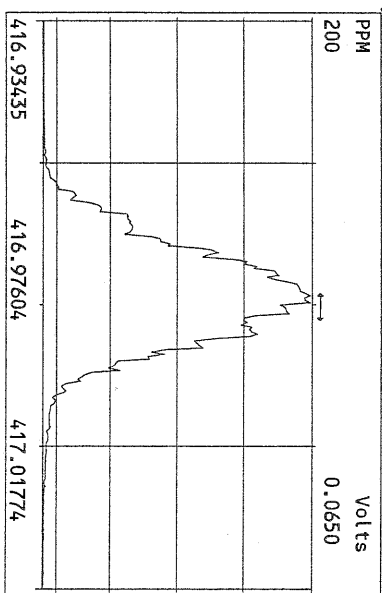
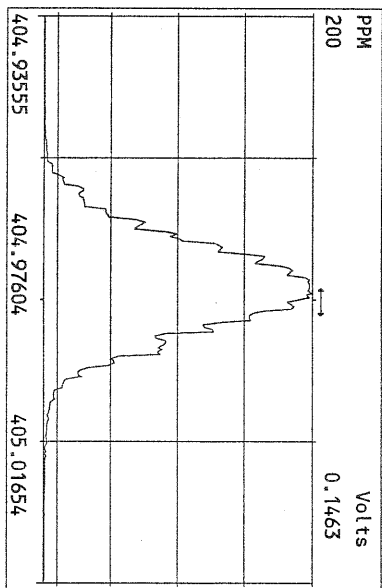
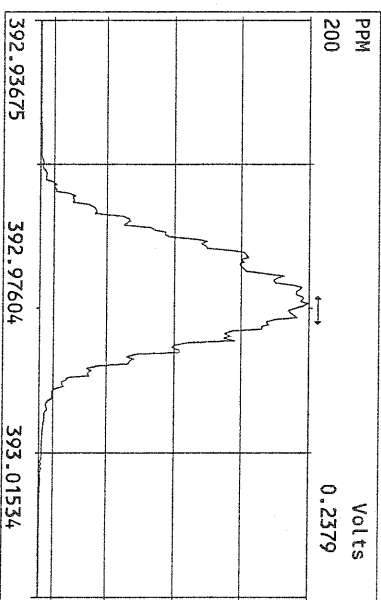
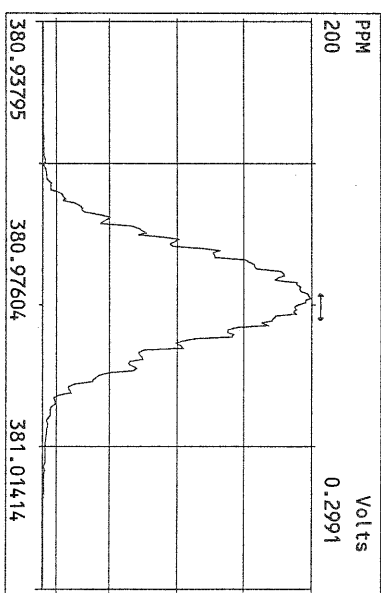
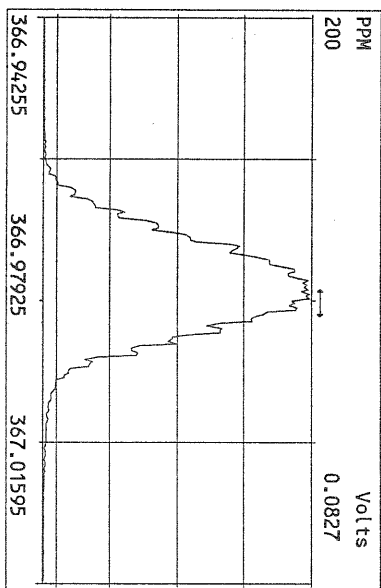
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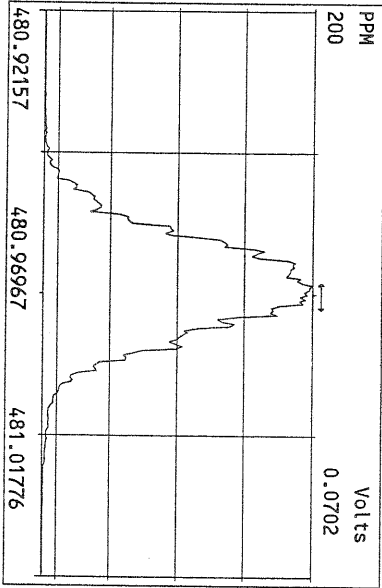
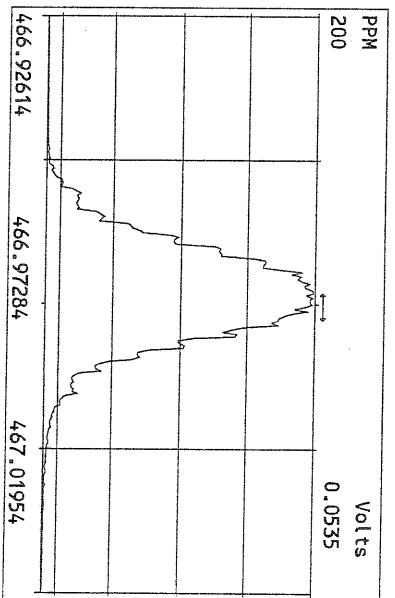
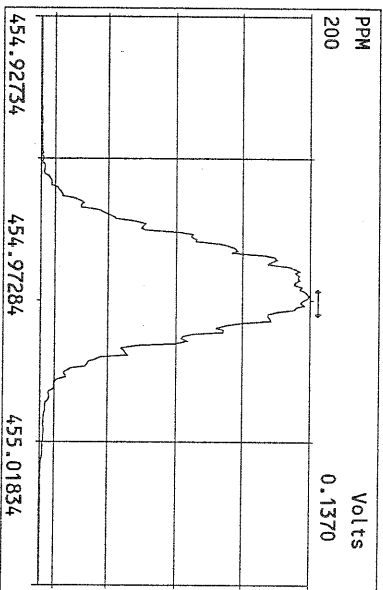
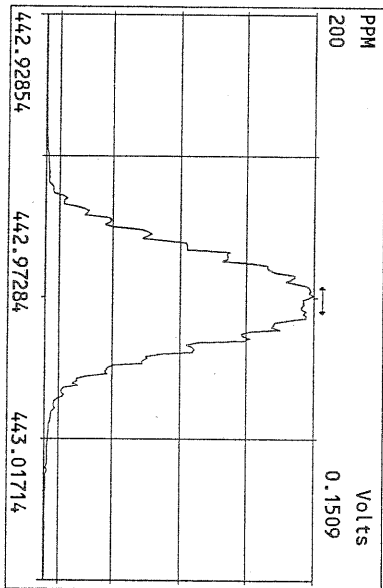
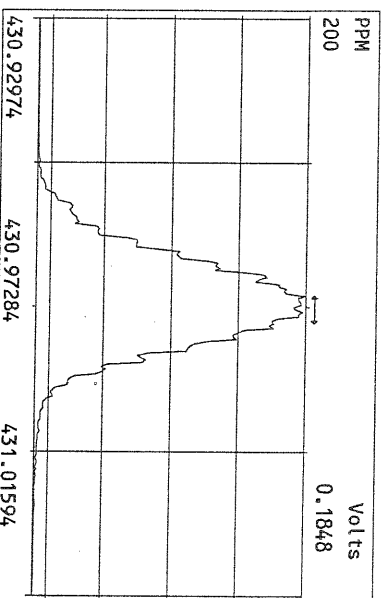
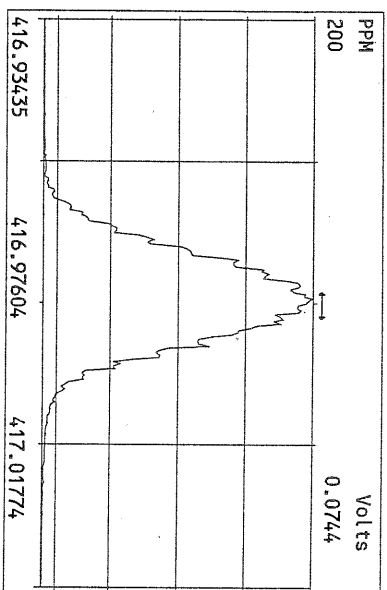
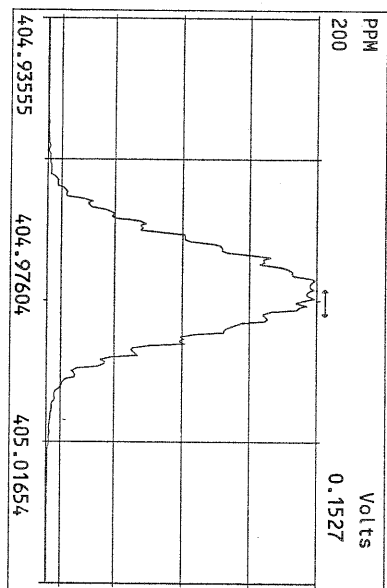
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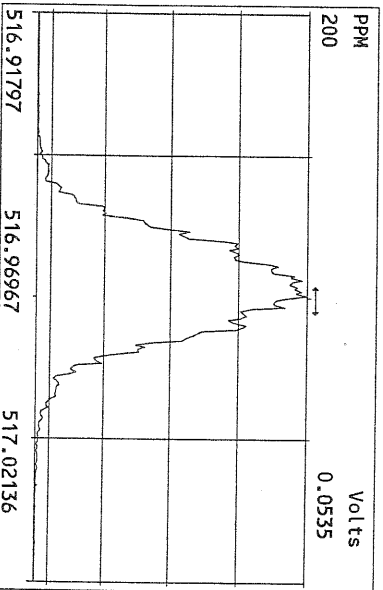
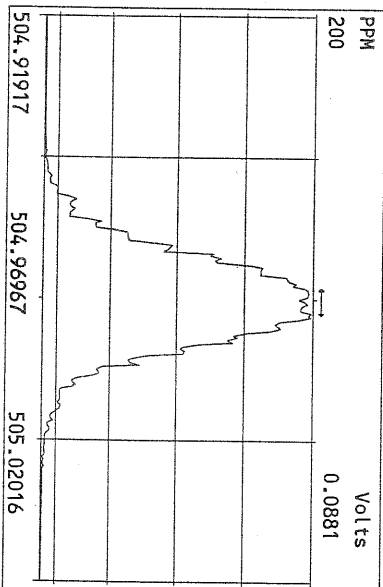
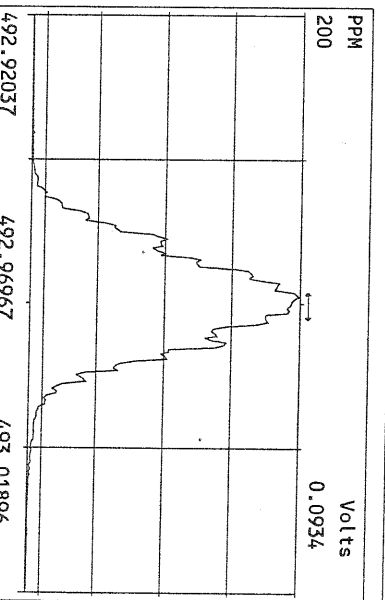
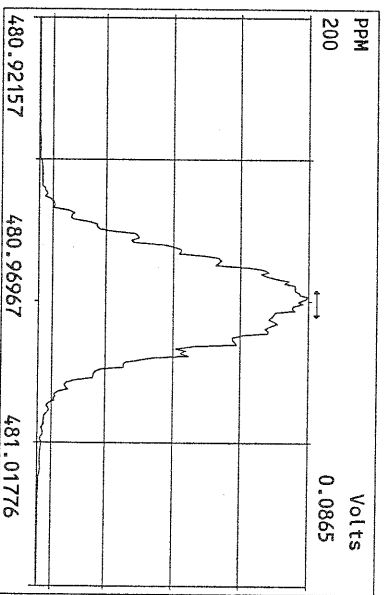
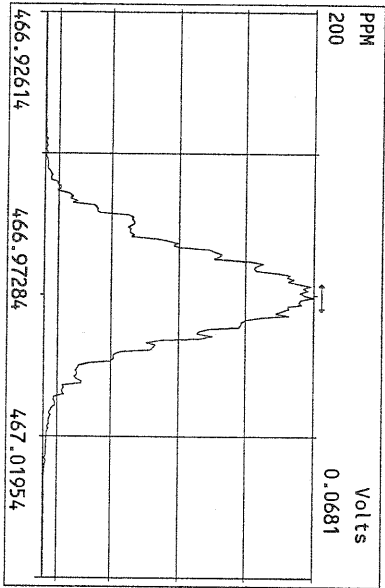
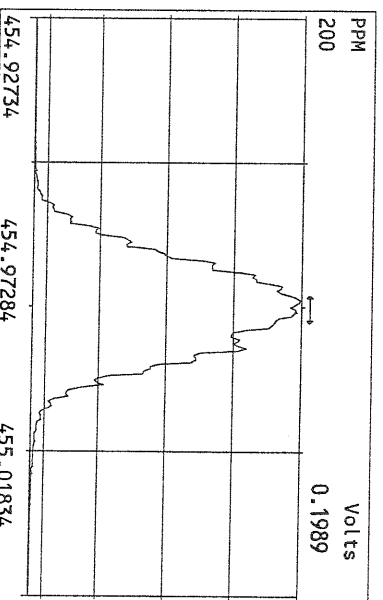
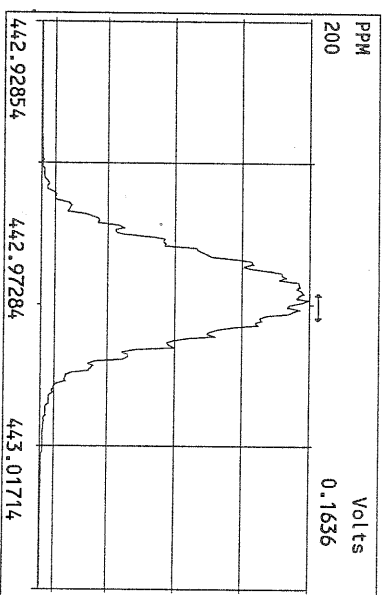
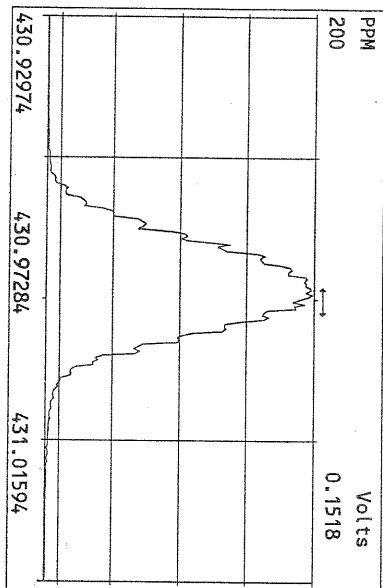
Date: _____



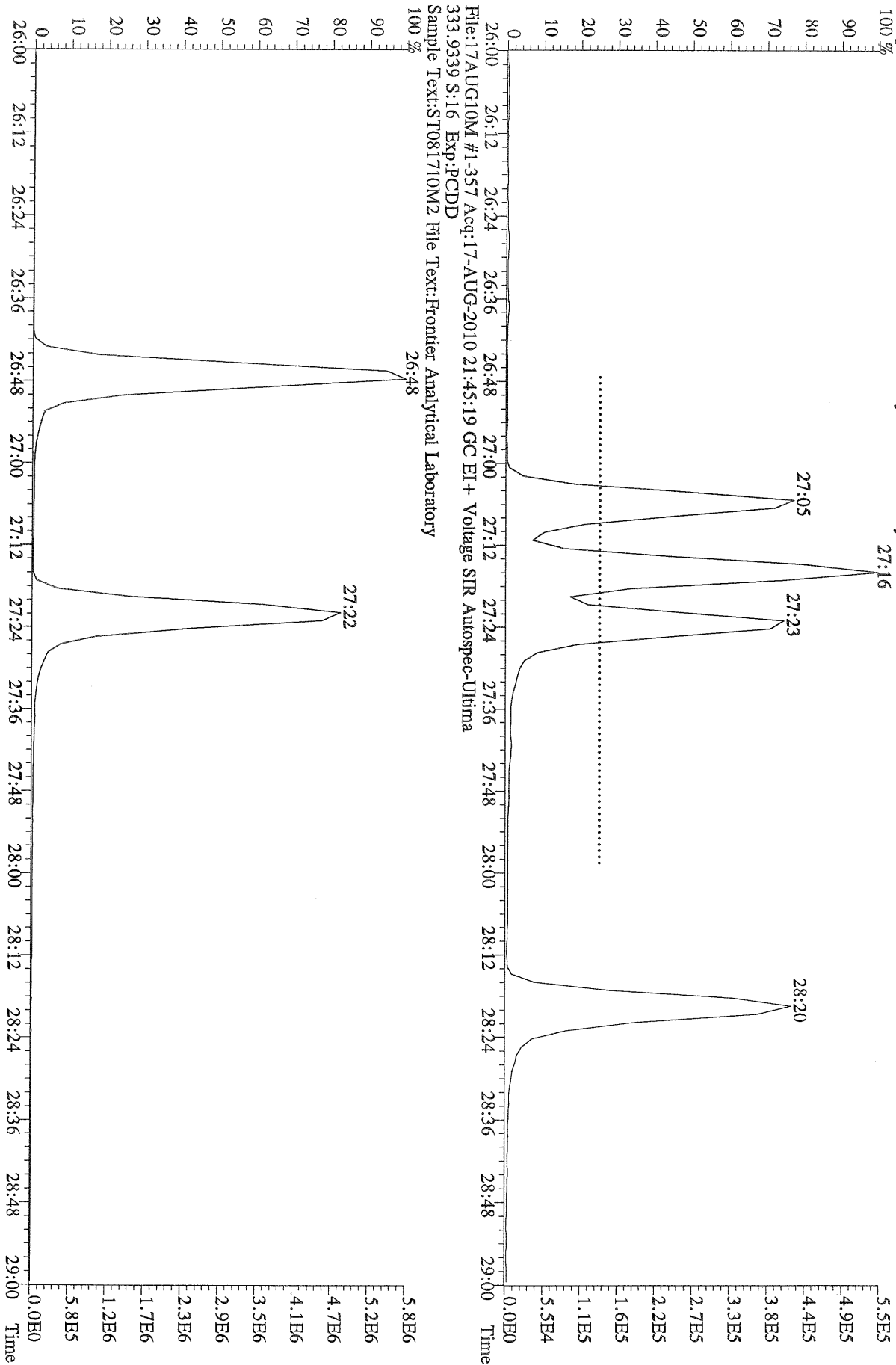




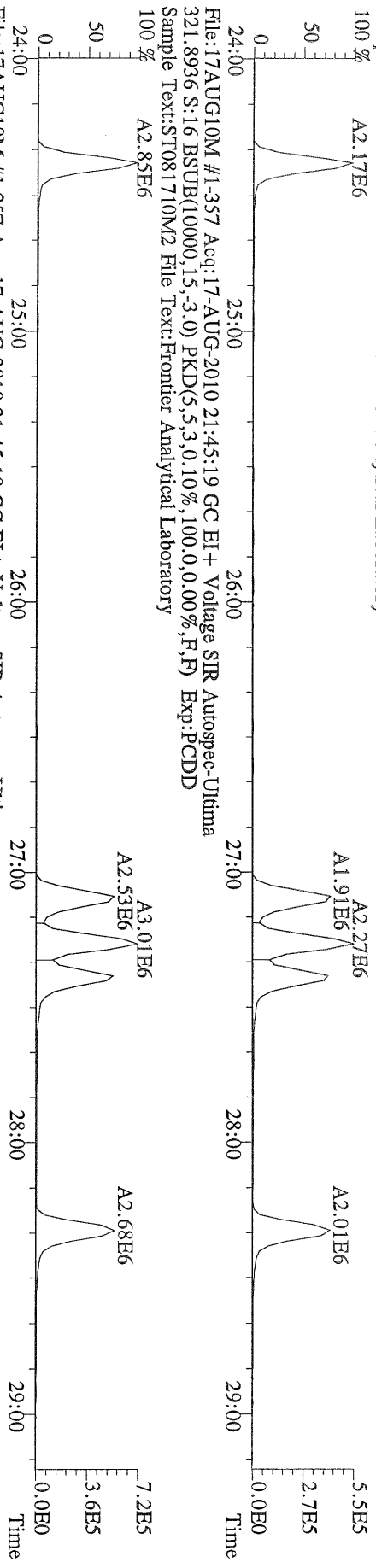




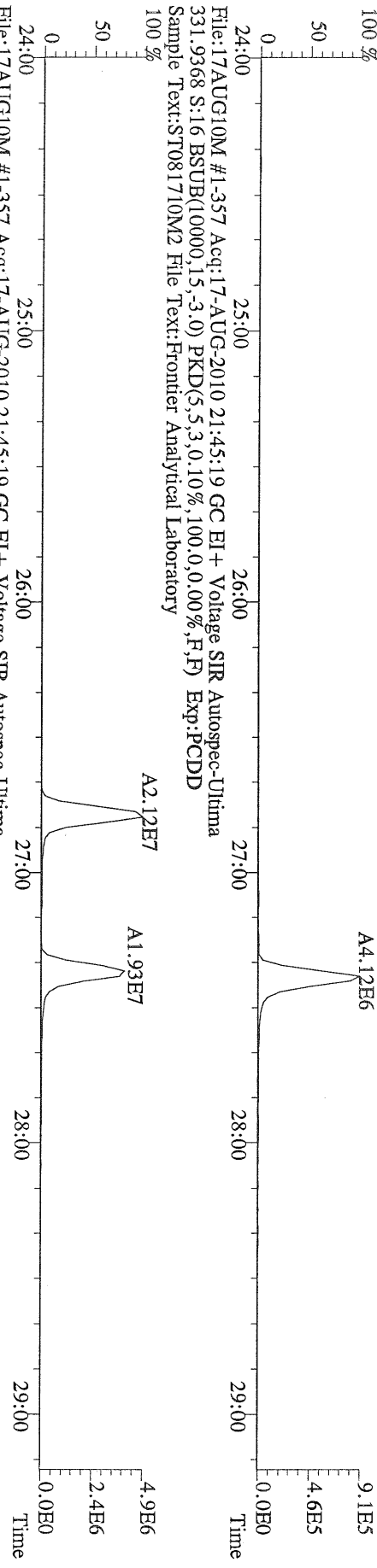
File:17AUG10M #1-357 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Ultima
319.8965 S:16 Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



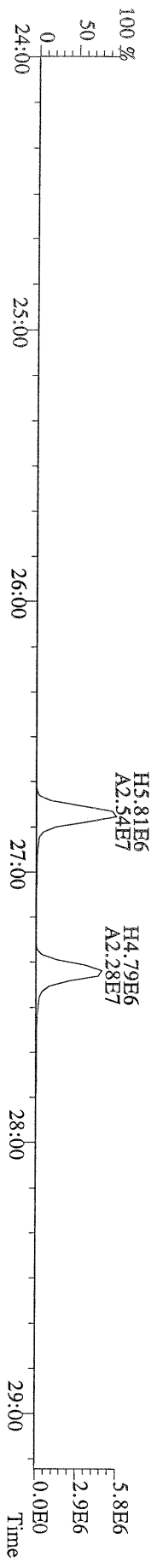
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319.8965 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



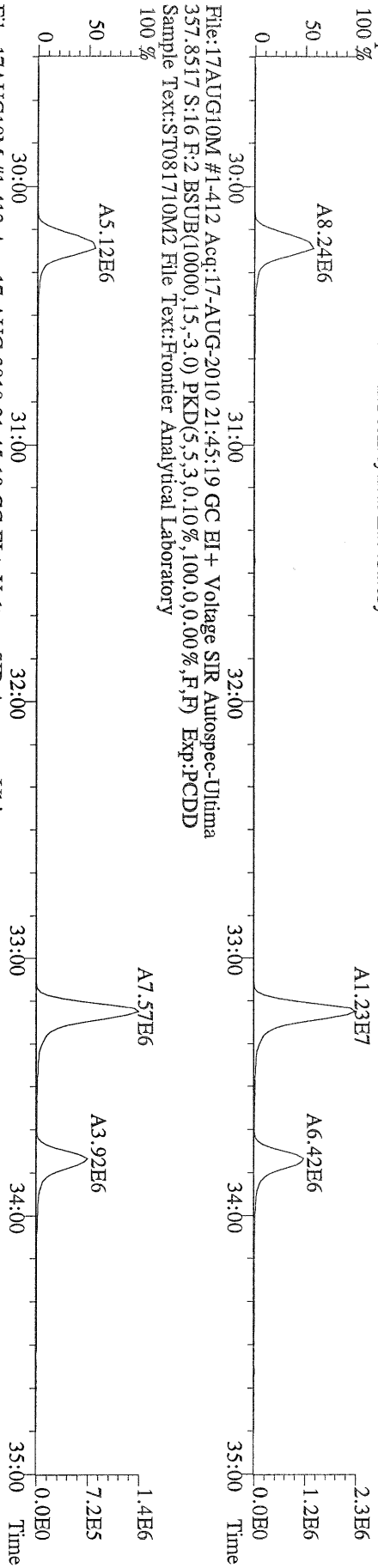
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327.8847 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



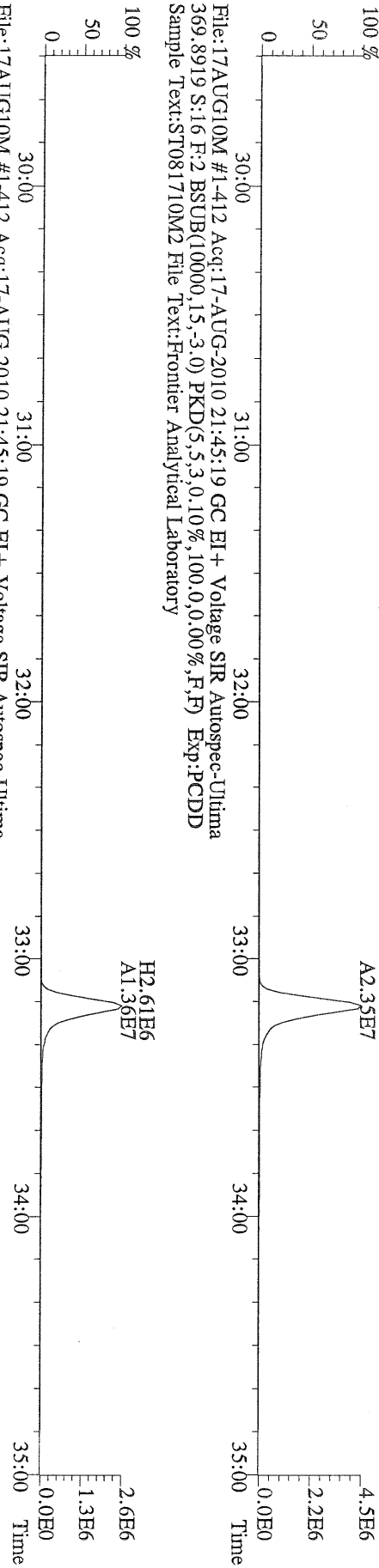
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331.9368 S:16 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



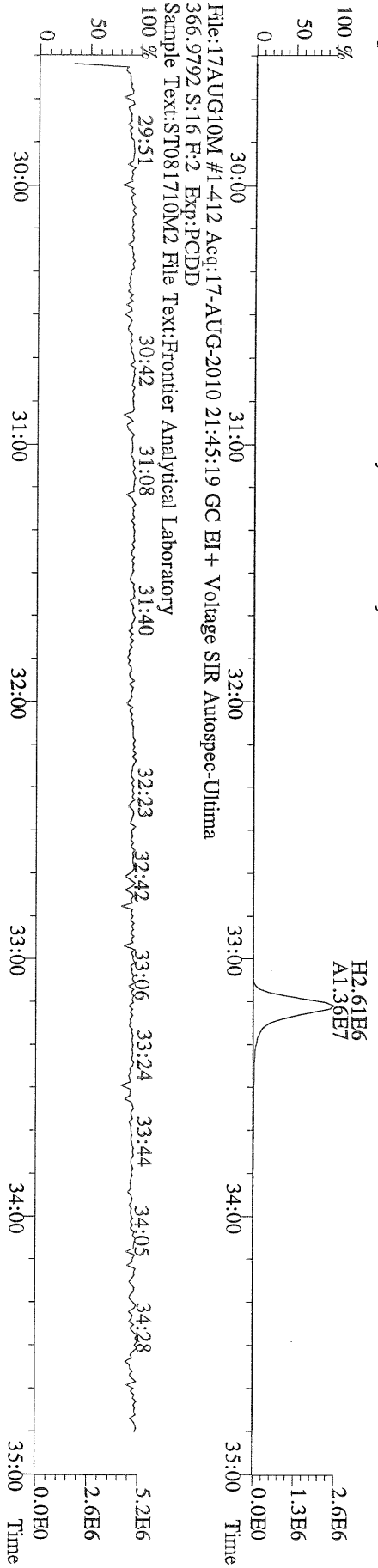
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355.8546 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory
100 %



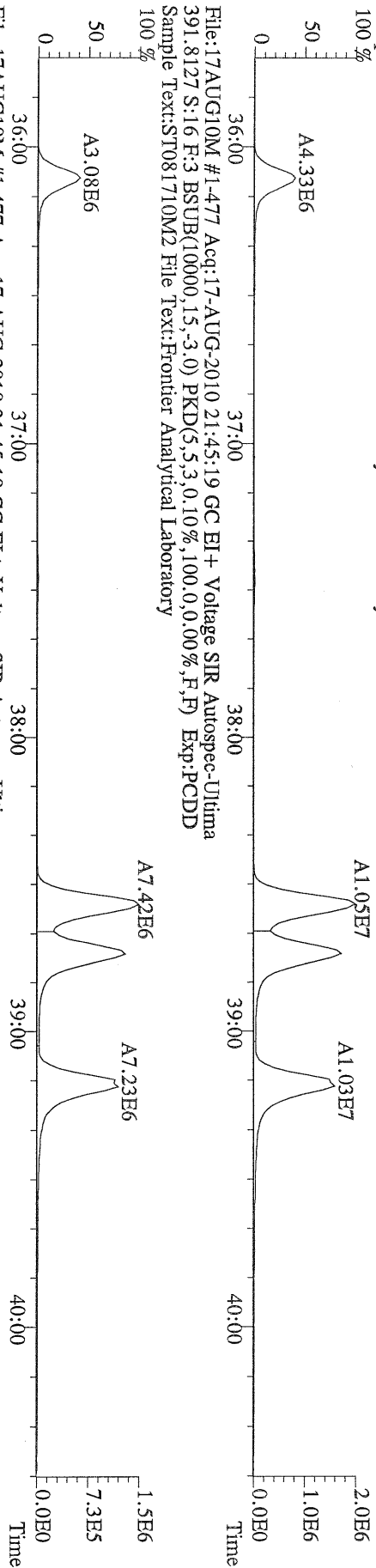
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367.8949 S:16 F:2 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory
100 %



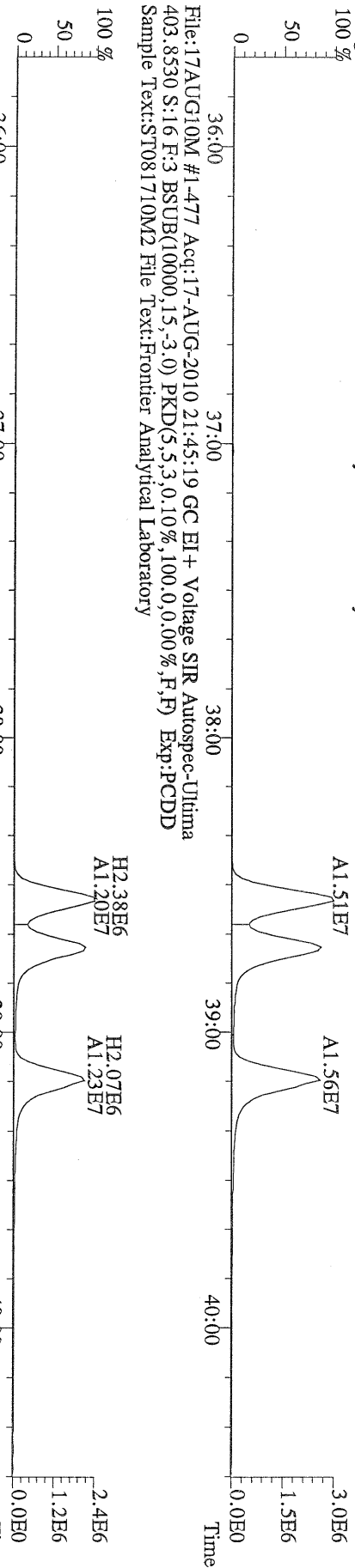
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Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory
100 %



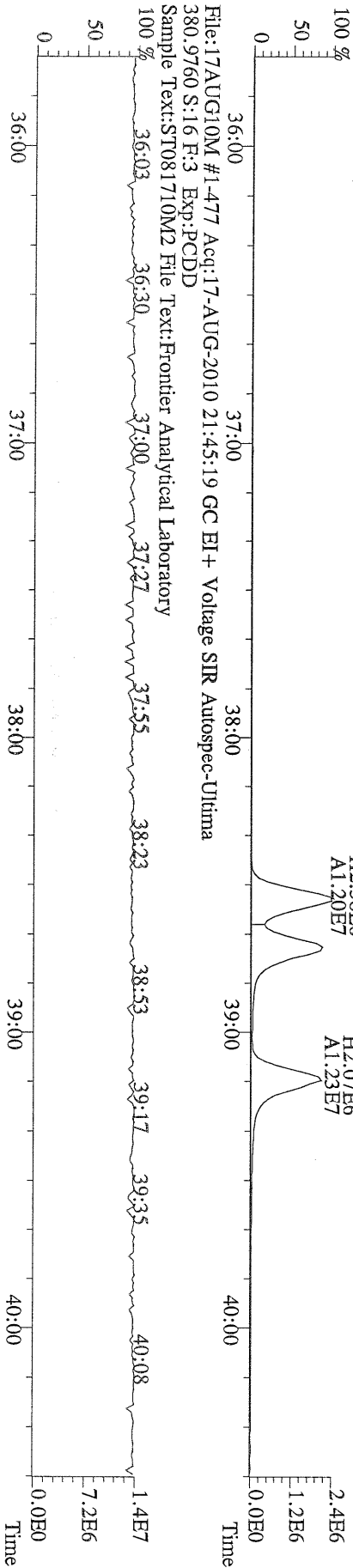
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 389.8156 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



File:17AUG10M #1-477 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Ultima
 401.8559 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory

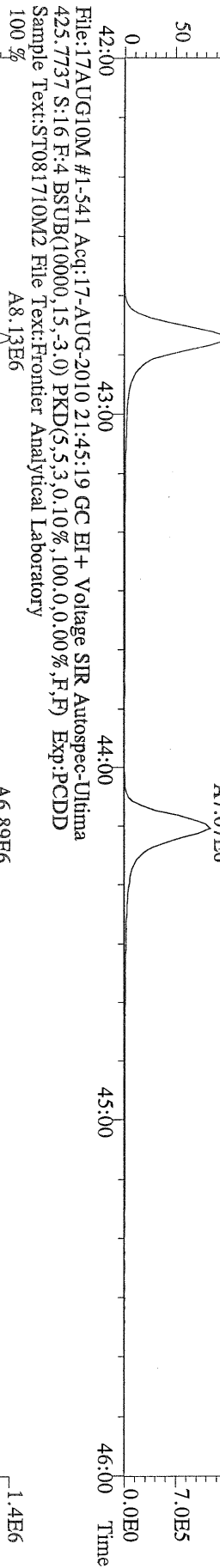


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 403.8530 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory

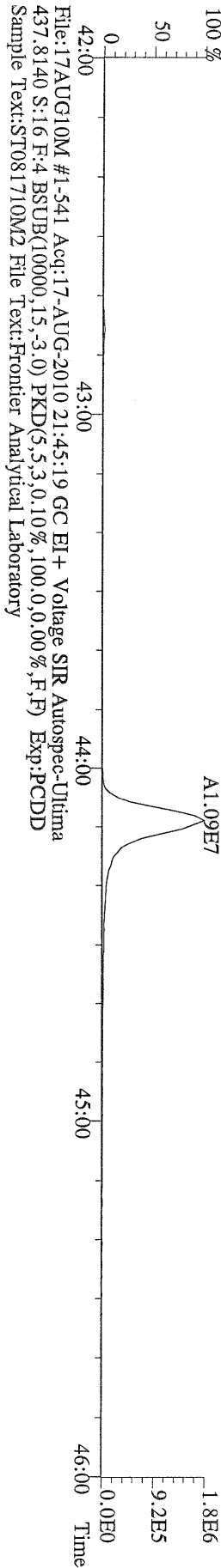


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 380.9760 S:16 F:3 Exp:PCDD
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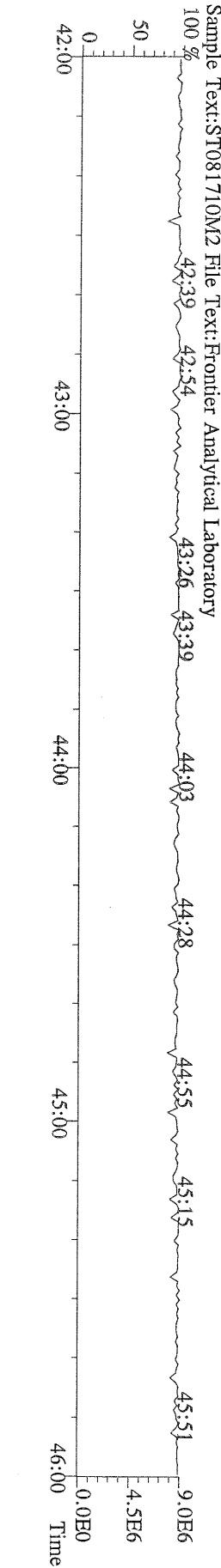
File:17AUG10M #1-541 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:16 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



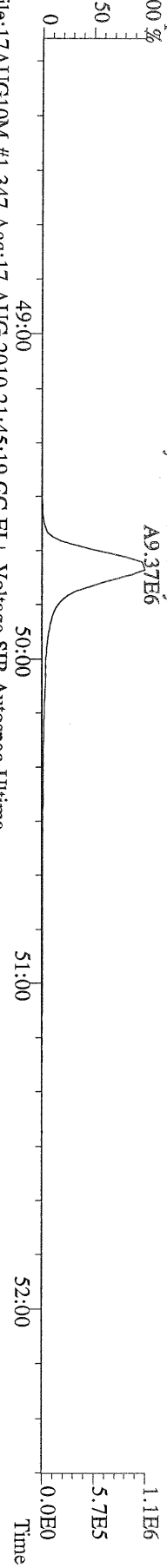
File:17AUG10M #1-541 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:16 F:4 BSUB(10000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



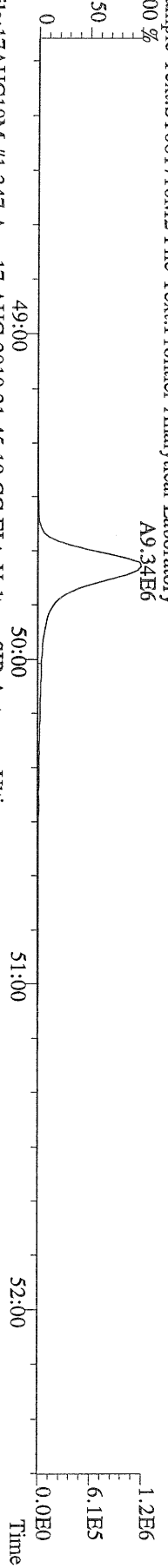
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430.9728 S:16 F:4 Exp:PCDD
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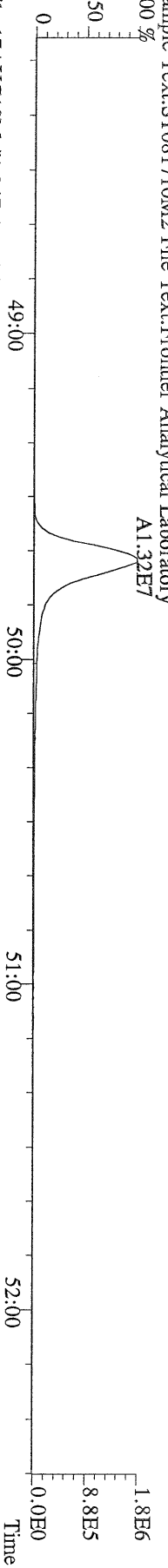
File:17AUG10M #1-347 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Ultima
457.7377 S:1.6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory
100 %



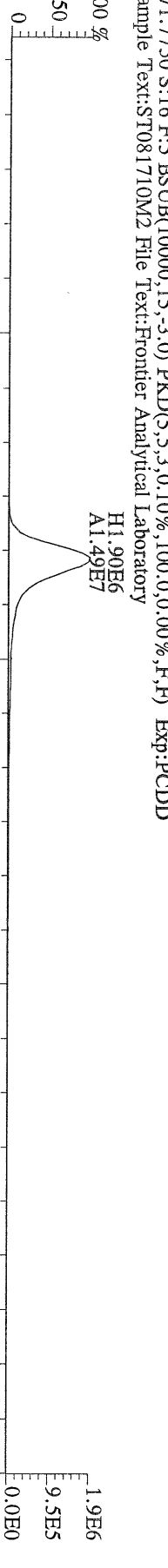
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459.7348 S:1.6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory
100 %



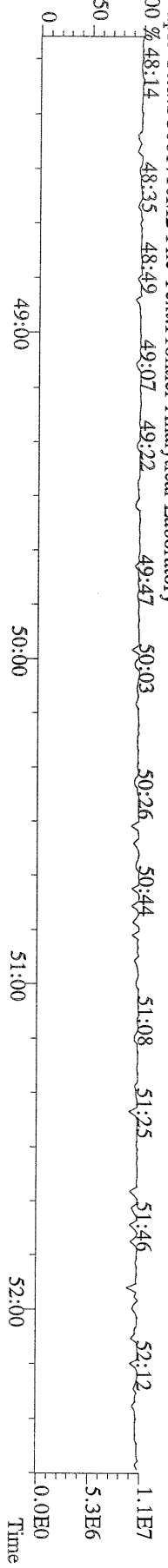
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469.7780 S:1.6 F:5 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory
100 %



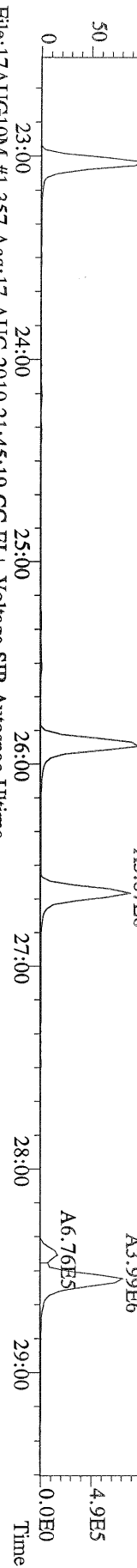
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Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



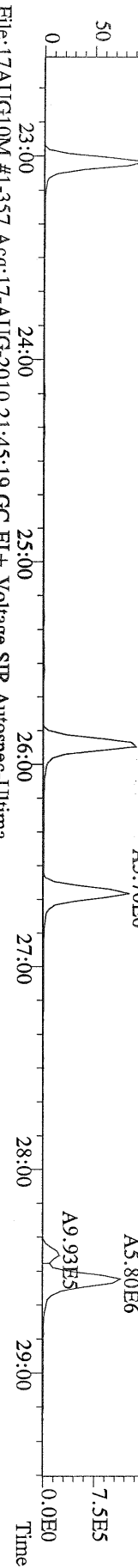
File:17AUG10M #1-347 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Ultima
454.9728 S:1.6 F:5 Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



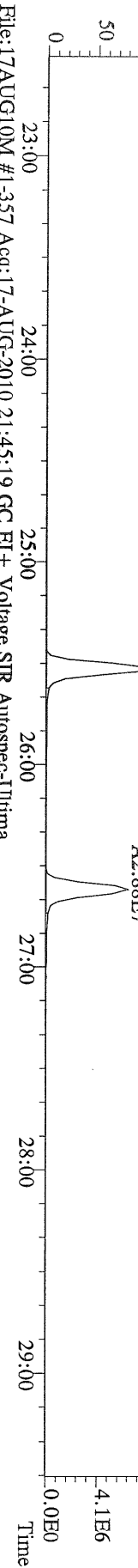
File:17AUG10M #1-357 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Ultima
303.9016 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



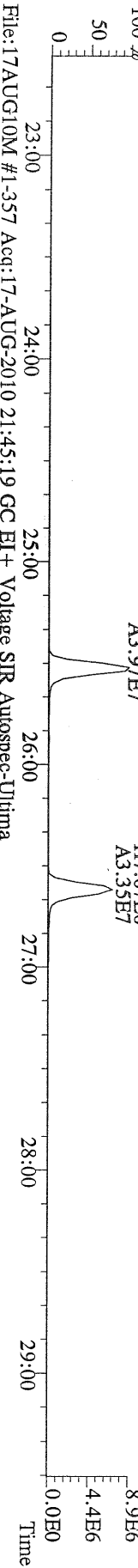
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305.8987 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



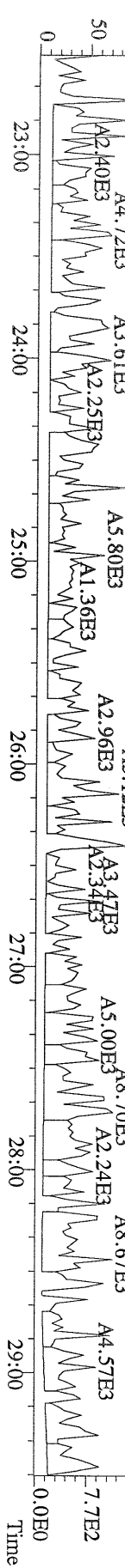
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315.9419 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



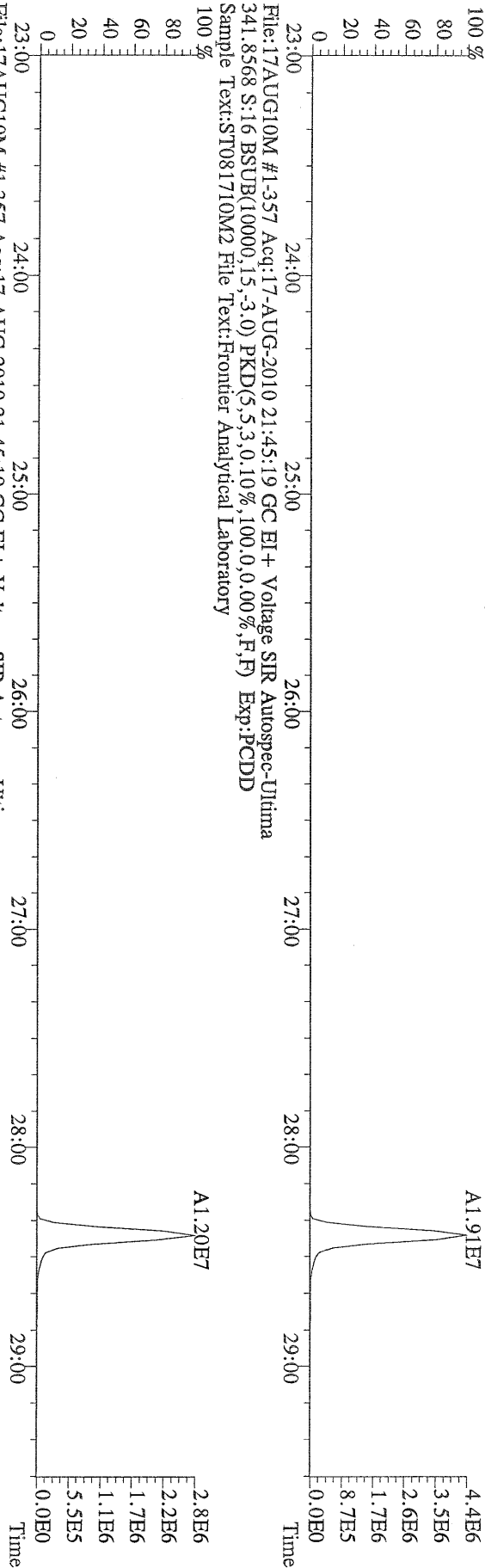
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317.9389 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



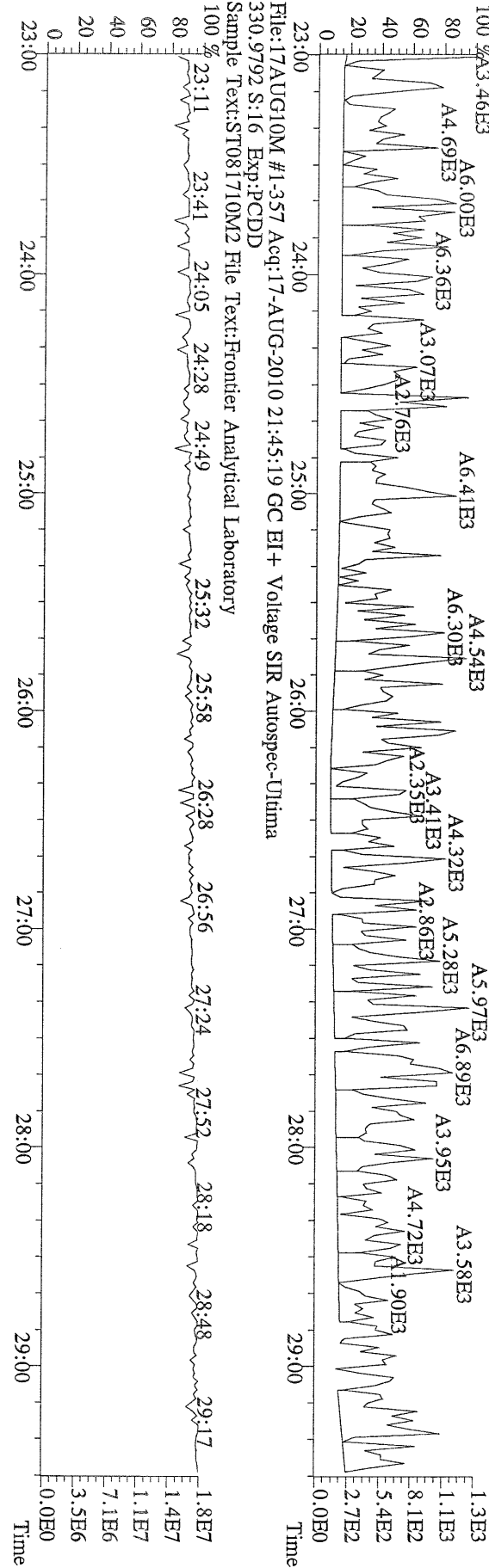
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375.8364 S:1.6 BSUB(10000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



File:17AUG10M #1-357 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:16 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory

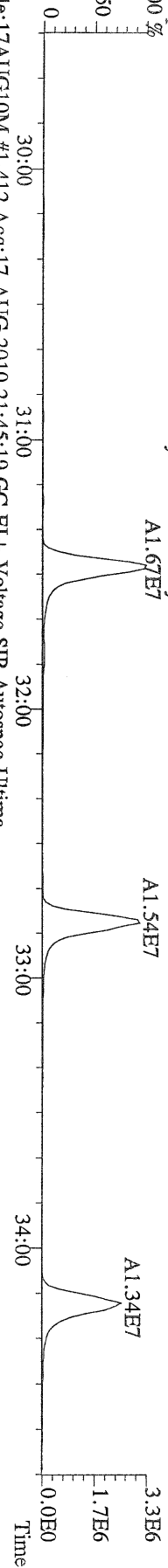


File:17AUG10M #1-357 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Utima
 409.7974 S:16 BSUB(10000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory

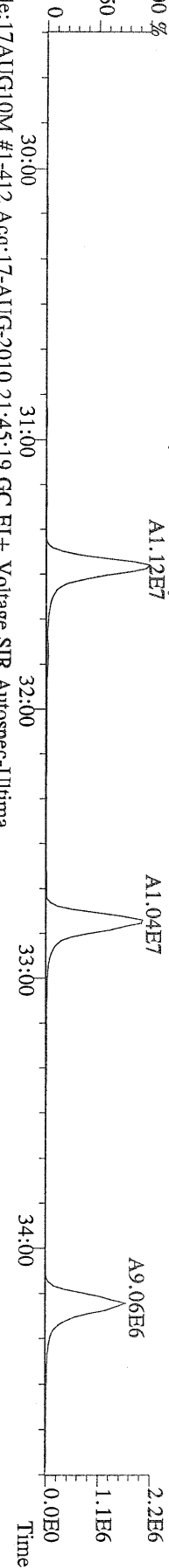


File:17AUG10M #1-357 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Utima
 330.9792 S:16 Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory

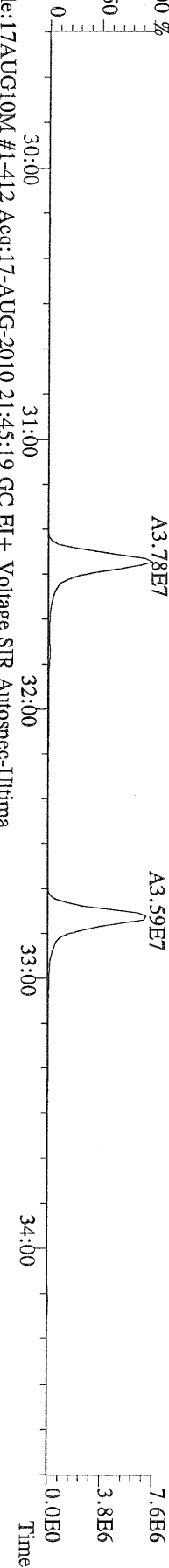
File:17AUG10M #1-412 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Ultima
 339,8597 S:16 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



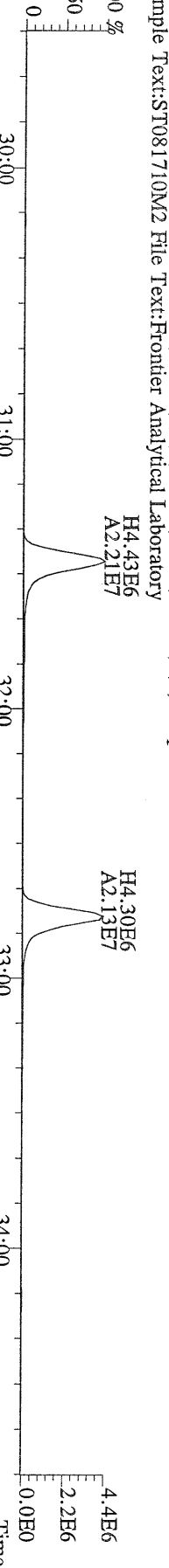
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 341,8568 S:16 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



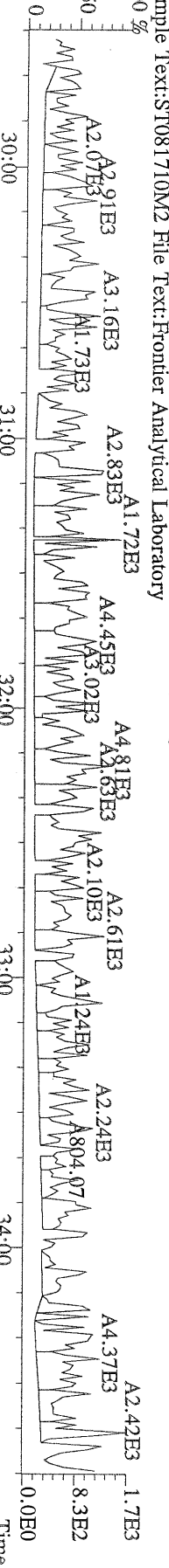
File:17AUG10M #1-412 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Ultima
 351,9000 S:16 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



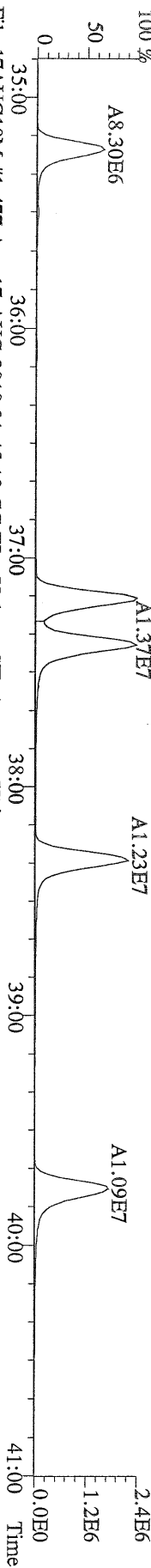
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 353,8970 S:16 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



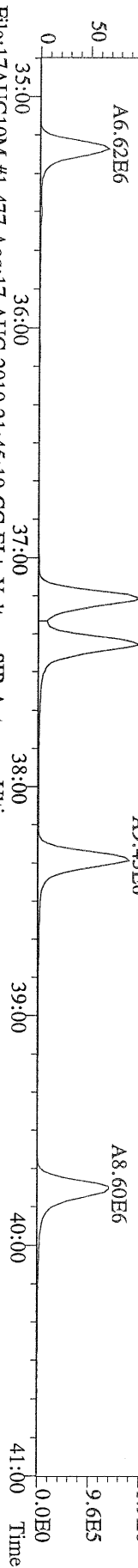
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 409,7974 S:16 F:2 BSUB(10000,15,-3,0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



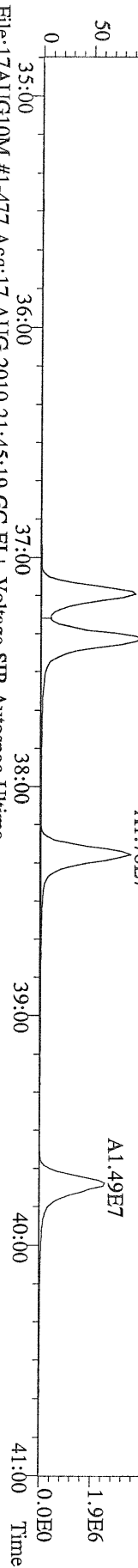
File:17AUG10M #1-477 Acq:17-AUG-2010 21:45:19 GC EI+ Voltage SIR Autospec-Utima
 373.8207 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



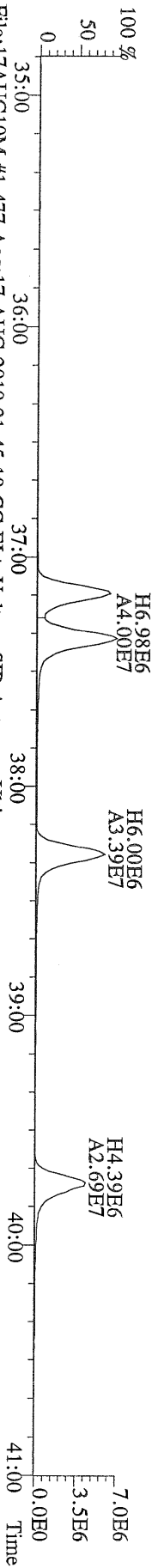
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 375.8178 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



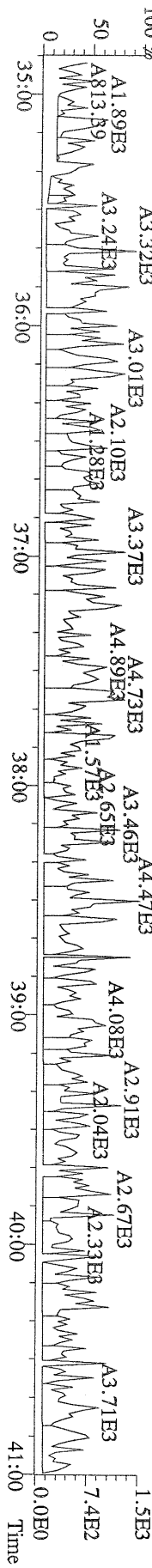
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 383.8639 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



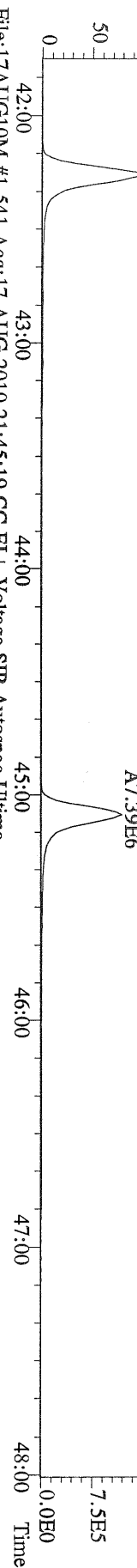
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 385.8610 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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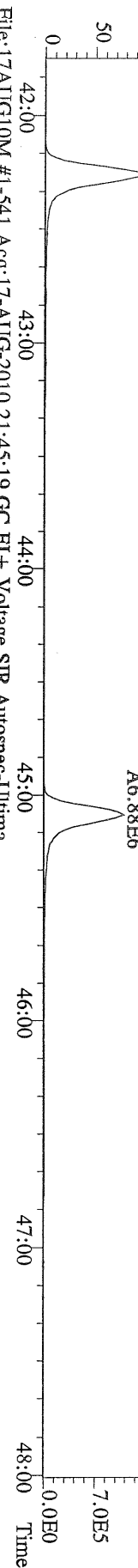
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 445.7555 S:16 F:3 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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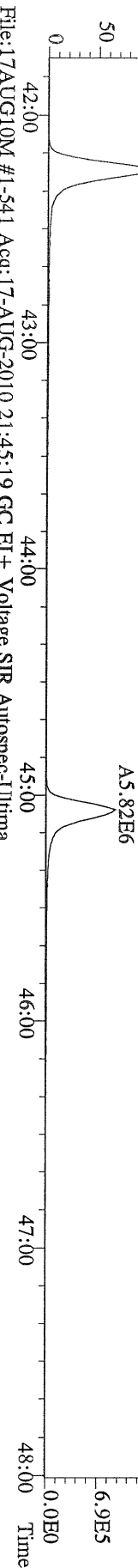
File:17AUG10M #1-541 Acq:17-AUG-2010 21:45:19 GC EI + Voltage SIR Autospec-Utima
 407.7818 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



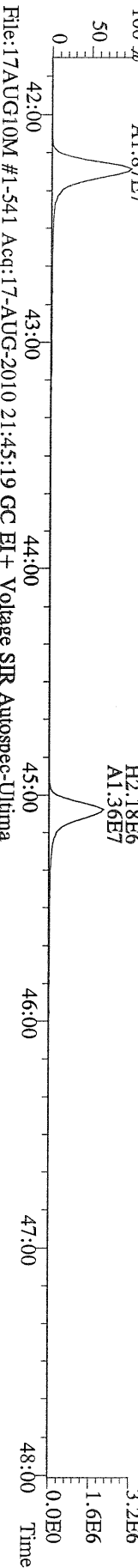
File:17AUG10M #1-541 Acq:17-AUG-2010 21:45:19 GC EI + Voltage SIR Autospec-Utima
 409.7788 S:16 F:4 BSUB(10000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



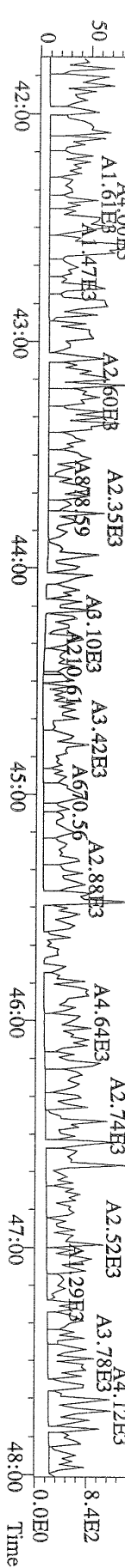
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 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



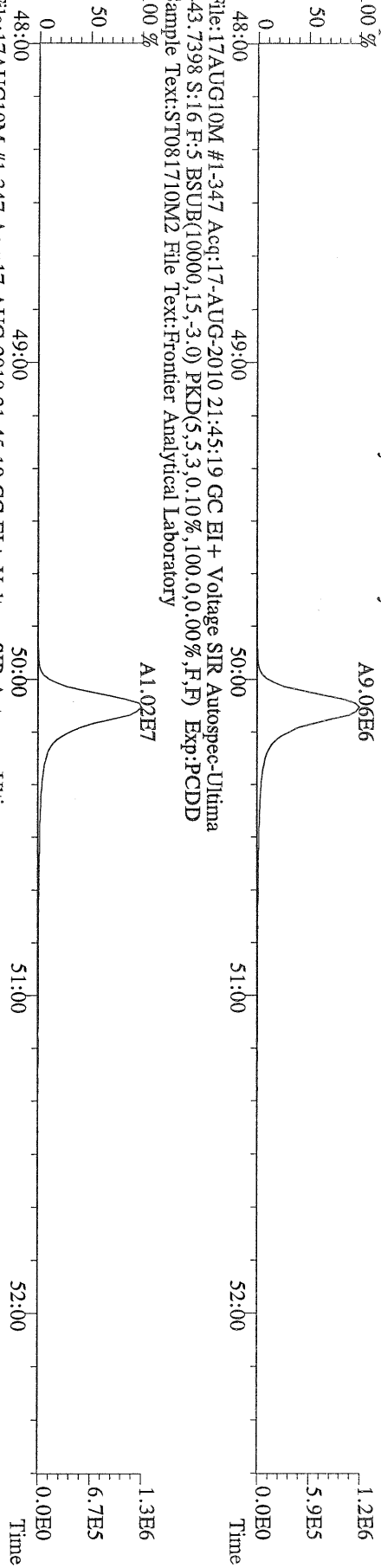
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 Sample Text:ST081710M2 File Text:Frontier Analytical Laboratory



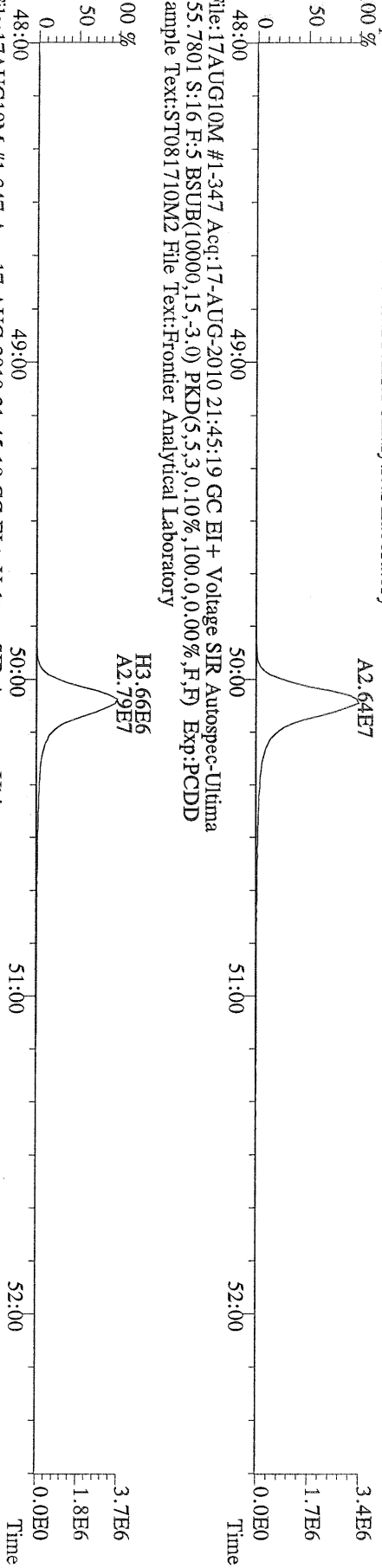
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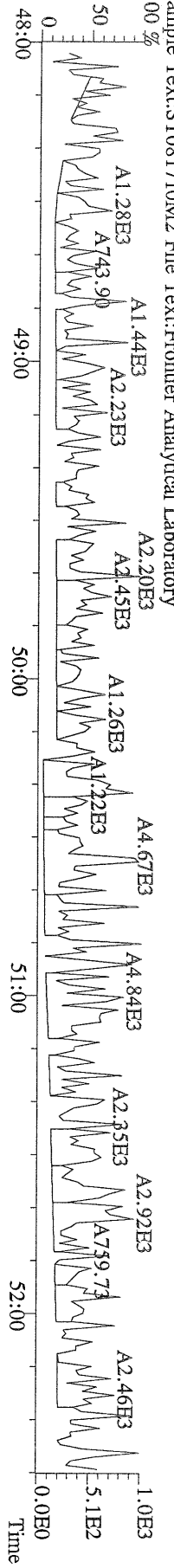
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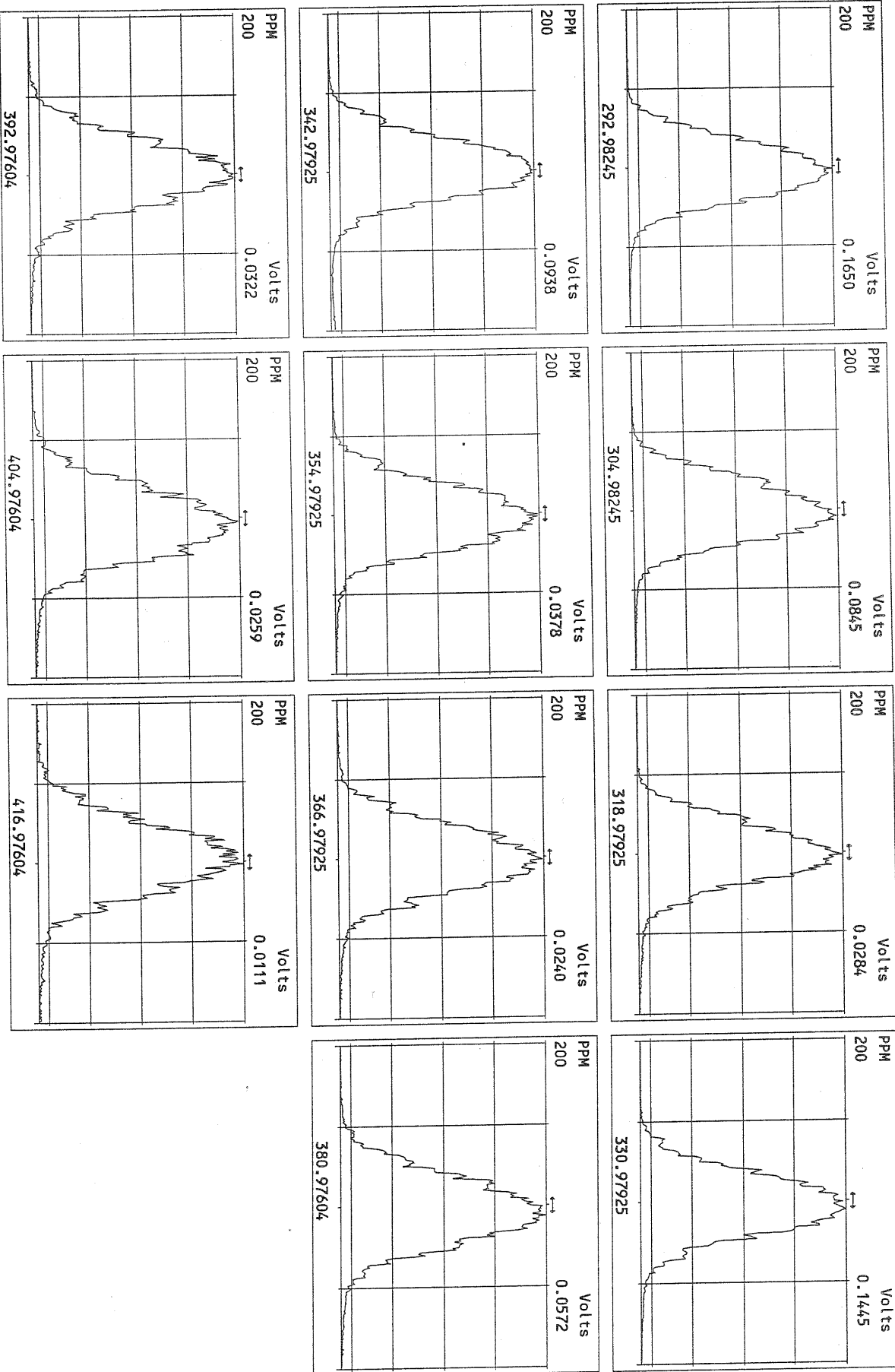


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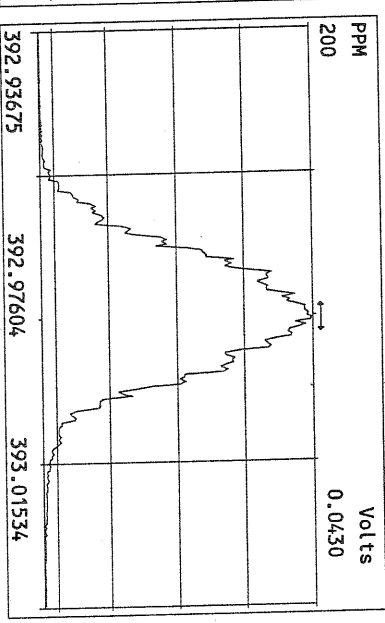
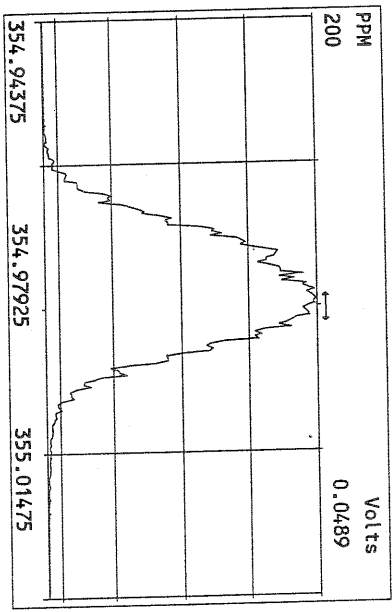
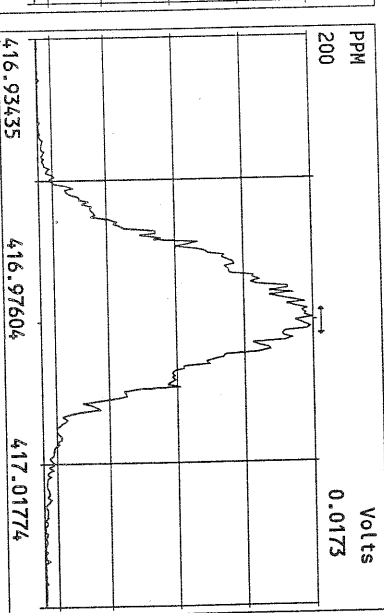
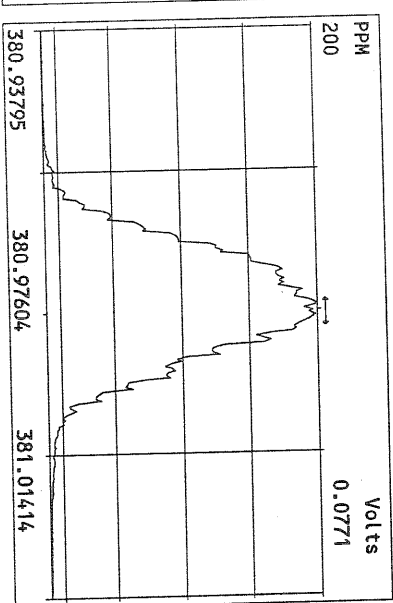
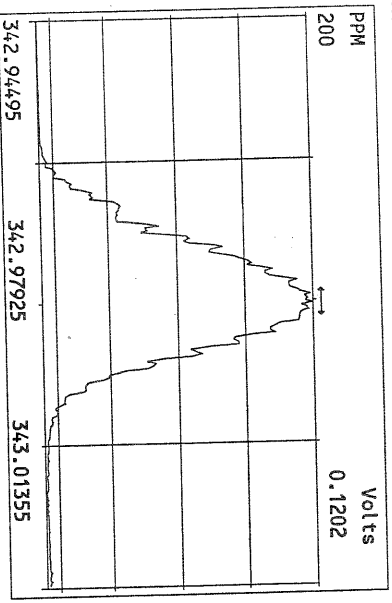
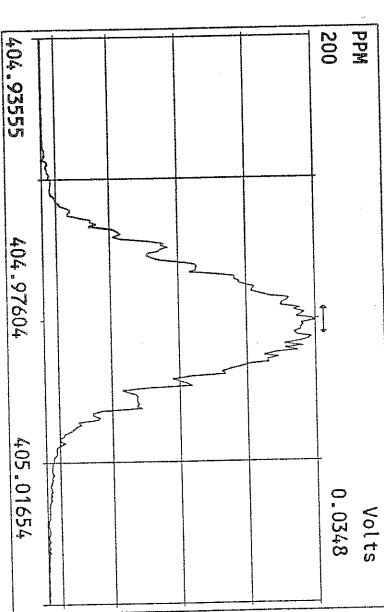
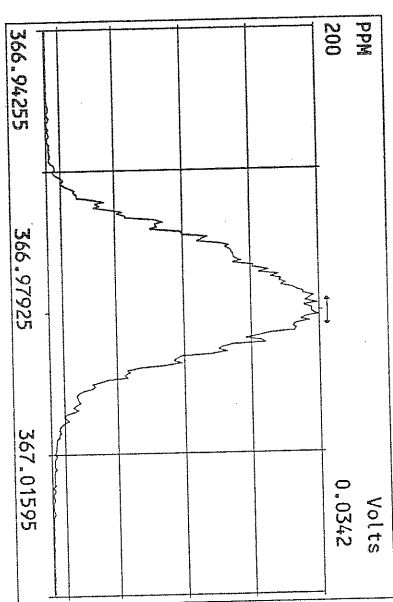
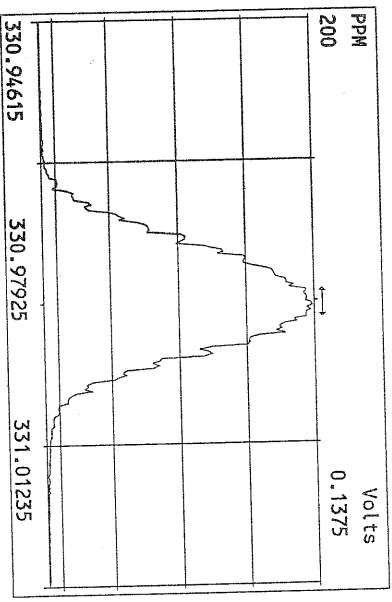


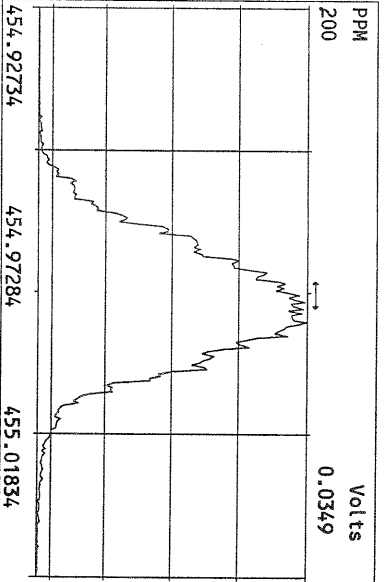
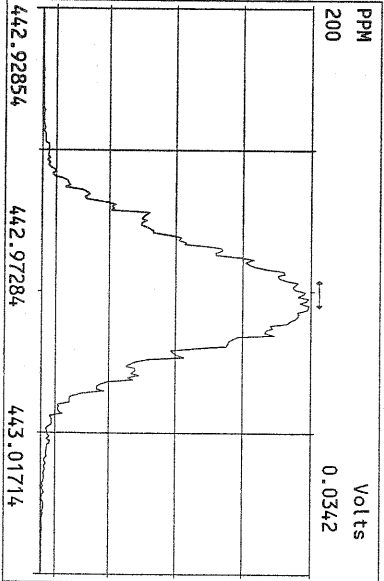
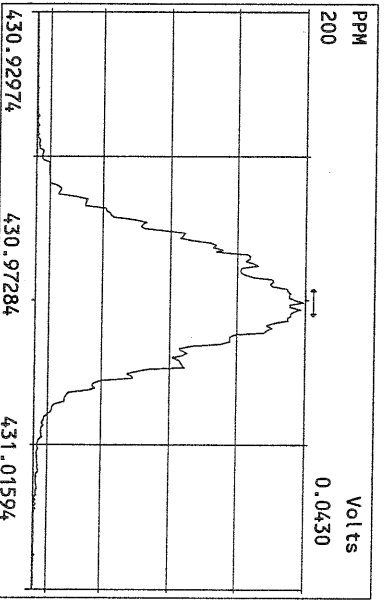
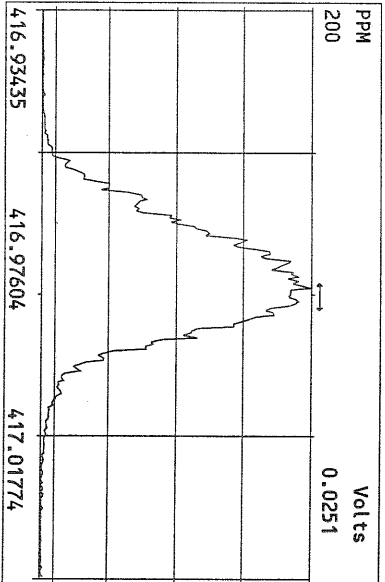
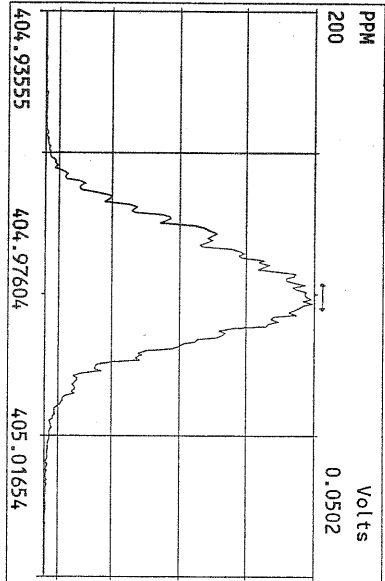
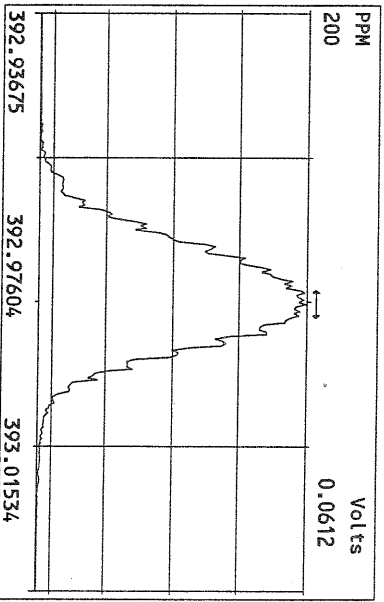
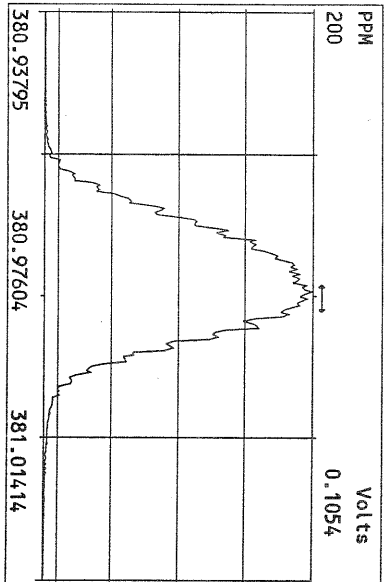
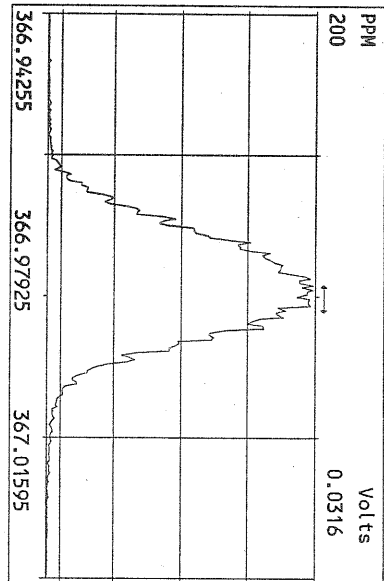
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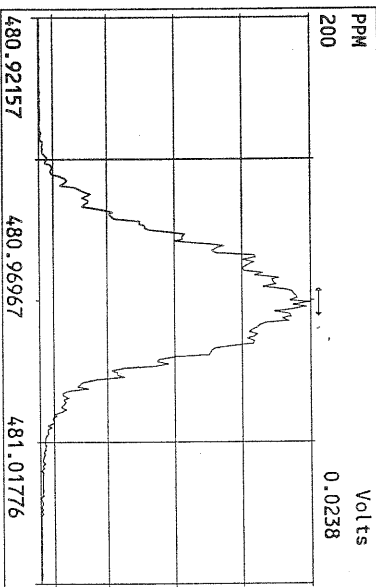
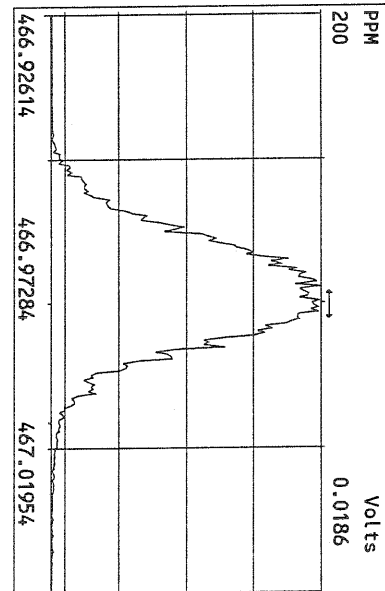
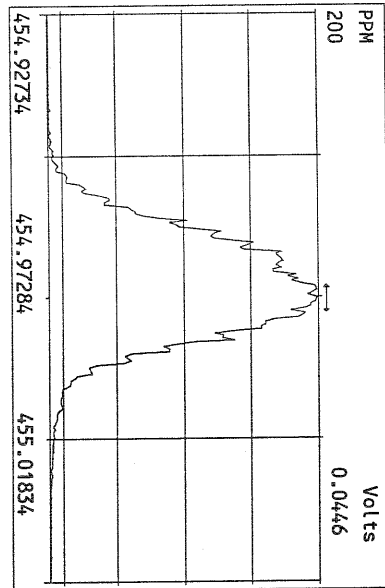
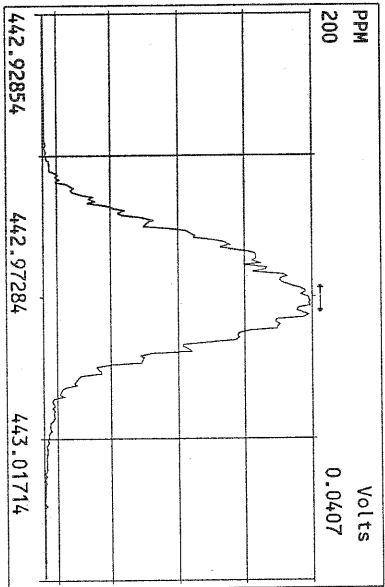
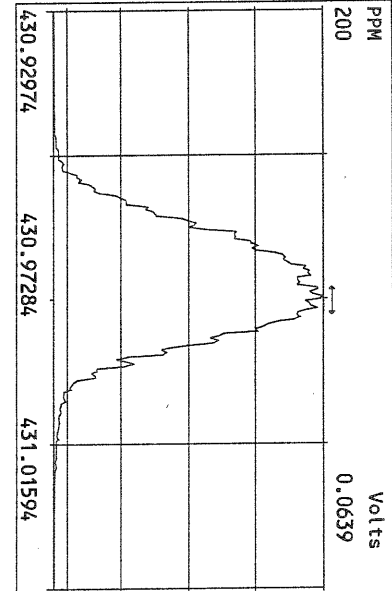
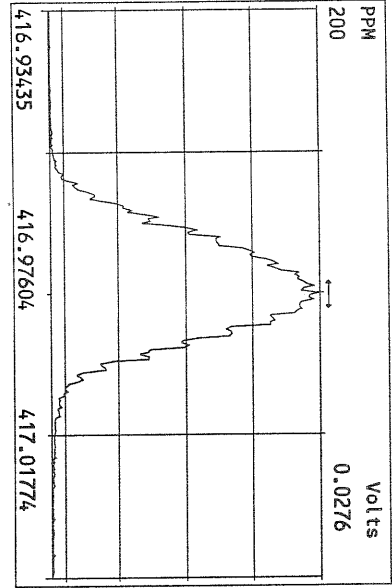
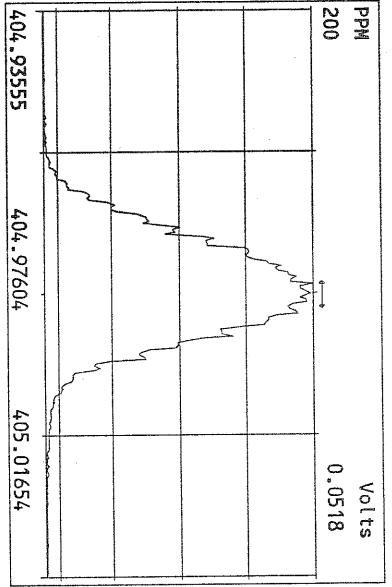


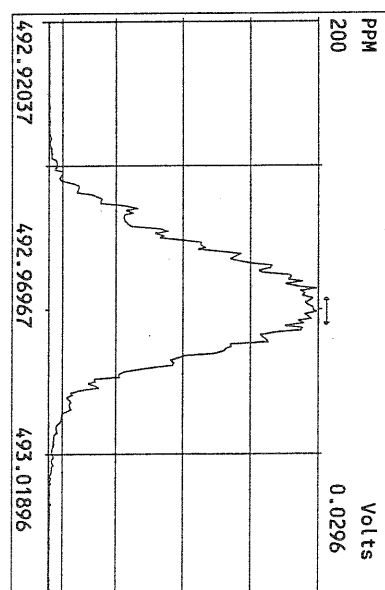
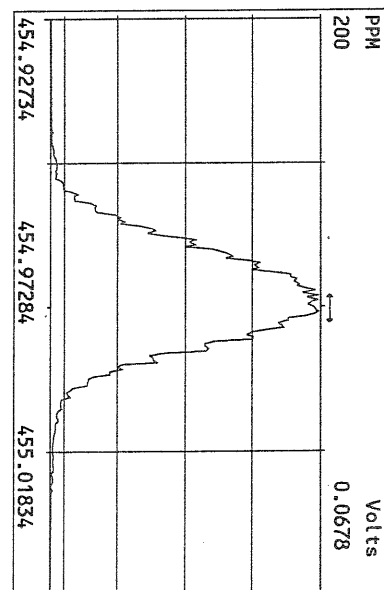
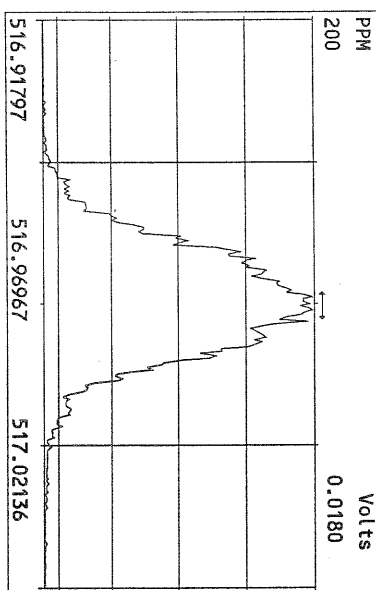
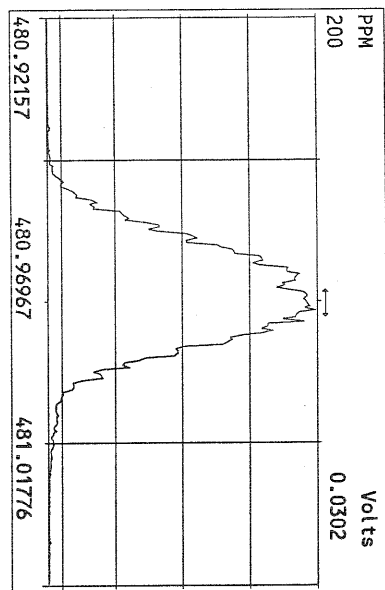
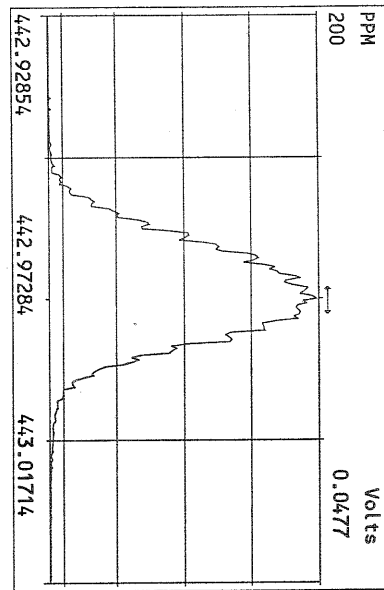
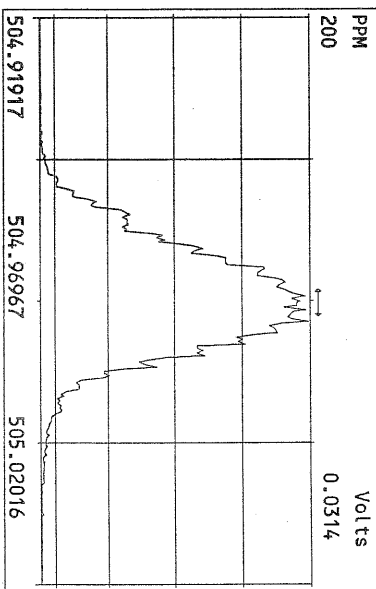
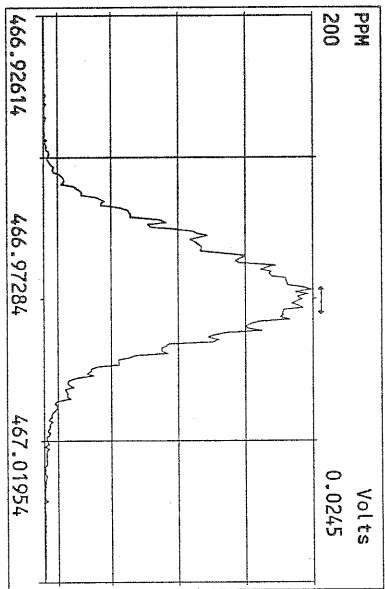
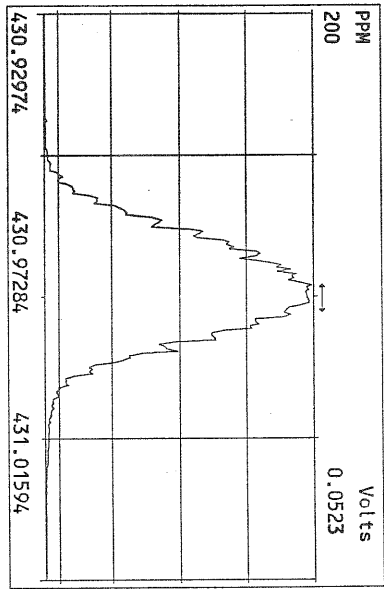


Peak Locate Examination: 18-AUG-2010:12:32 File: 17AUG10M_RES_CHECK
Experiment: PCDD Function: 2 Reference: PFK









NATO 1989 Tox: 100
 WHO 1998 Tox: 126 WHO 2005 Tox: 115

Name	Resp	RA	RT	RRF	Conc	Qual	Fac Noise-1	Noise-2	DL	DL
2,3,7,8-TCDD	4.78e+06	0.77 y	27:25	1.04	9.85	2.50	-	-	*	*
1,2,3,7,8-PeCDD	2.22e+07	1.60 y	33:14	1.05	51.3	2.50	-	-	*	*
1,2,3,4,7,8-HxCDD	2.19e+07	1.40 y	38:35	1.30	54.1	2.50	-	-	*	*
1,2,3,6,7,8-HxCDD	2.03e+07	1.40 y	38:46	1.28	52.5	2.50	-	-	*	*
1,2,3,7,8,9-HxCDD	2.19e+07	1.41 y	39:12	1.25	57.2	2.50	-	-	*	*
1,2,3,4,6,7,8-HpCDD	1.67e+07	0.99 y	44:11	1.35	47.1	2.50	-	-	*	*
OCDD	1.77e+07	0.96 y	49:44	1.25	104	2.50	-	-	*	*
2,3,7,8-TCDF	1.03e+07	0.71 y	26:39	1.62	9.31	2.50	-	-	*	*
1,2,3,7,8-PeCDF	3.21e+07	1.48 y	31:30	0.92	51.1	2.50	-	-	*	*
2,3,4,7,8-PeCDF	3.02e+07	1.46 y	32:49	0.94	48.6	2.50	-	-	*	*
1,2,3,4,7,8-HxCDF	2.54e+07	1.27 y	37:12	0.93	46.2	2.50	-	-	*	*
1,2,3,6,7,8-HxCDF	2.86e+07	1.25 y	37:24	0.84	48.7	2.50	-	-	*	*
2,3,4,6,7,8-HxCDF	2.64e+07	1.24 y	38:21	0.90	48.3	2.50	-	-	*	*
1,2,3,7,8,9-HxCDF	2.32e+07	1.29 y	39:47	0.98	47.7	2.50	-	-	*	*
1,2,3,4,6,7,8-HpCDF	2.02e+07	1.07 y	42:16	1.38	46.3	2.50	-	-	*	*
1,2,3,4,7,8,9-HpCDF	1.68e+07	1.07 y	45:07	1.62	46.1	2.50	-	-	*	*
OCDF	1.73e+07	0.88 y	50:07	0.74	94.8	2.50	-	-	*	*
13C-2,3,7,8-TCDD	4.68e+07	0.78 y	27:24	0.93	100					Rec 100
13C-1,2,3,7,8-PeCDD	4.13e+07	1.75 y	33:12	0.81	101					101
13C-1,2,3,4,7,8-HxCDD	3.11e+07	1.25 y	38:34	0.95	111					111
13C-1,2,3,6,7,8-HxCDD	3.03e+07	1.27 y	38:44	1.00	103					103
13C-1,2,3,4,6,7,8-HpCDD	2.62e+07	1.01 y	44:09	0.92	96.1					96.1
13C-OCDD	2.73e+07	0.93 y	49:43	0.63	146					73.0
13C-2,3,7,8-TCDF	6.85e+07	0.86 y	26:39	0.87	102					102
13C-1,2,3,7,8-PeCDF	6.84e+07	1.69 y	31:29	0.81	110					110
13C-2,3,4,7,8-PeCDF	6.59e+07	1.67 y	32:48	0.75	114					114
13C-1,2,3,4,7,8-HxCDF	5.90e+07	0.53 y	37:10	1.74	115					115
13C-1,2,3,6,7,8-HxCDF	7.01e+07	0.54 y	37:23	2.17	109					109
13C-2,3,4,6,7,8-HxCDF	6.09e+07	0.56 y	38:19	1.82	113					113
13C-1,2,3,7,8,9-HxCDF	4.93e+07	0.55 y	39:45	1.49	112					112
13C-1,2,3,4,6,7,8-HpCDF	3.17e+07	0.43 y	42:16	1.10	97.6					97.6
13C-1,2,3,4,7,8,9-HpCDF	2.24e+07	0.44 y	45:05	0.81	92.8					92.8
13C-OCDF	4.93e+07	0.94 y	50:05	1.19	141					70.3
37Cl-2,3,7,8-TCDD	4.51e+06		27:25	0.93	9.59					95.9
13C-1,2,3,4-TCDD	5.05e+07	0.82 y	26:48	-	149					
13C-1,2,3,4-TCDF	7.70e+07	0.88 y	25:33	-	144					
13C-1,2,3,7,8,9-HxCDD	2.96e+07	1.24 y	39:10	-	137					
Total Tetra-Dioxins	2.66e+07		24:25	1.04	54.8	2.50	-	-	*	18
Total Penta-Dioxins	4.84e+07		30:15	1.05	112	2.50	-	-	*	8
Total Hexa-Dioxins	7.32e+07		36:08	1.27	187	2.50	-	-	*	9
Total Hepta-Dioxins	3.69e+07		42:48	1.35	104	2.50	-	-	*	18
Total Tetra-Furans	4.53e+07		23:04	1.62	40.8	2.50	-	-	*	19
1st Fn. Tot Penta-Furans	3.28e+07		28:25	0.93	52.6	2.50	-	-	*	PeCDF 1
Total Penta-Furans	9.01e+07		30:10	0.93	144	2.50	-	-	*	197 11
Total Hexa-Furans	1.22e+08		35:15	0.90	224	2.50	-	-	*	11
Total Hepta-Furans	3.72e+07		42:16	1.48	92.8	2.50	-	-	*	6

Analyst: J

Date: 8/18/10

Frontier Analytical Laboratory - Acquisition Log

Run Name:17AUG10M

Instrument: FAL3

GC: DB5

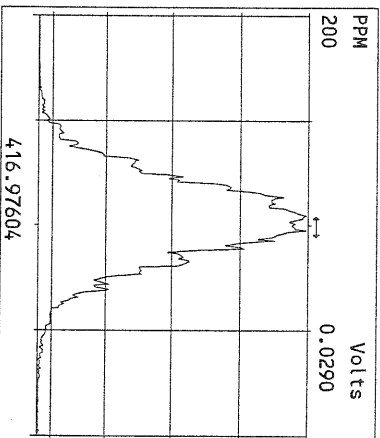
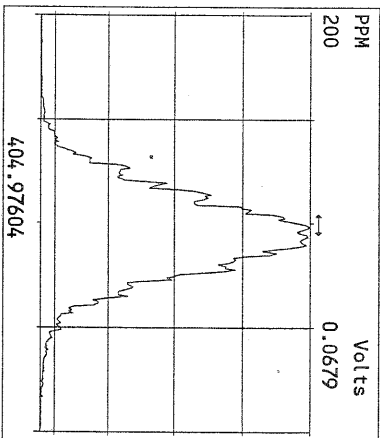
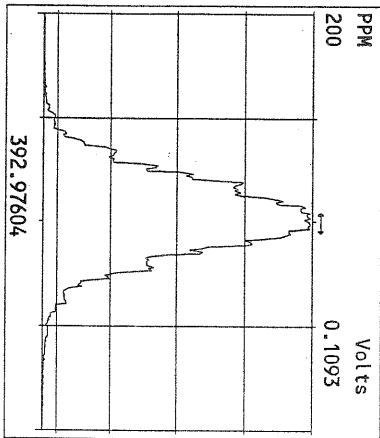
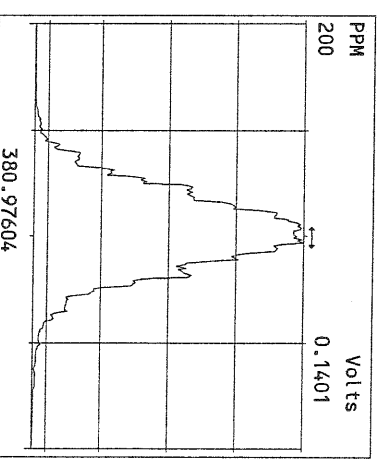
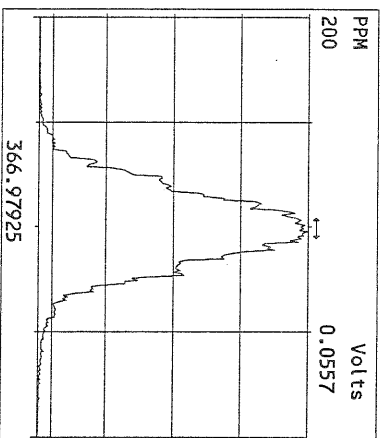
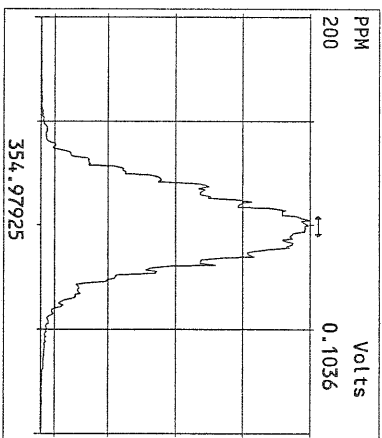
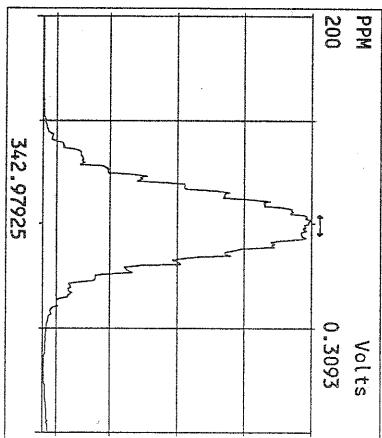
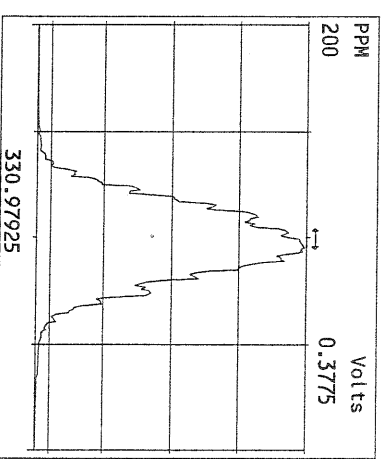
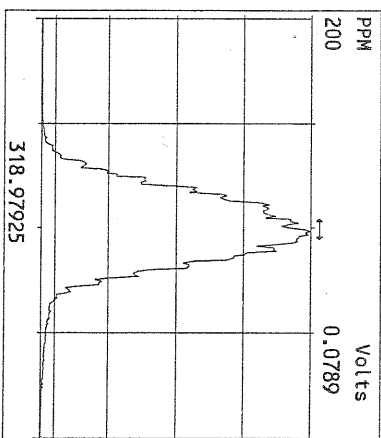
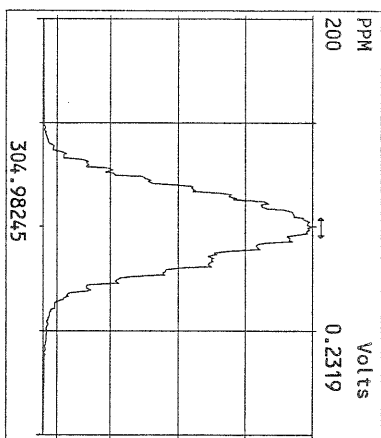
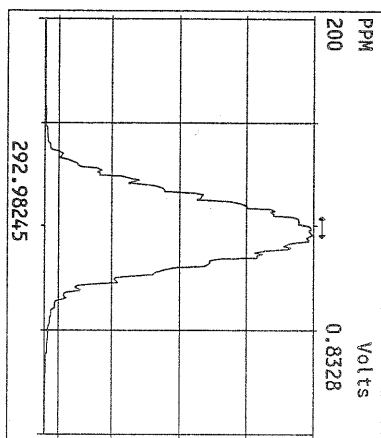
Experiment:PCDD

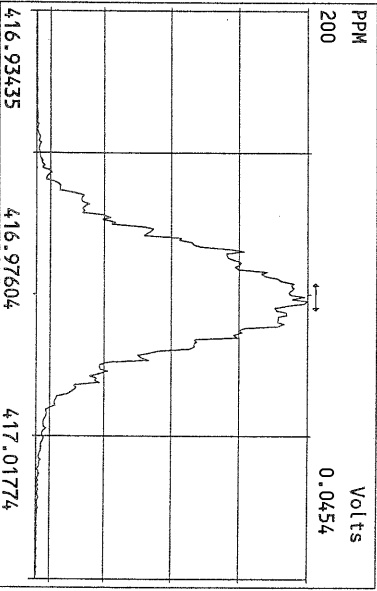
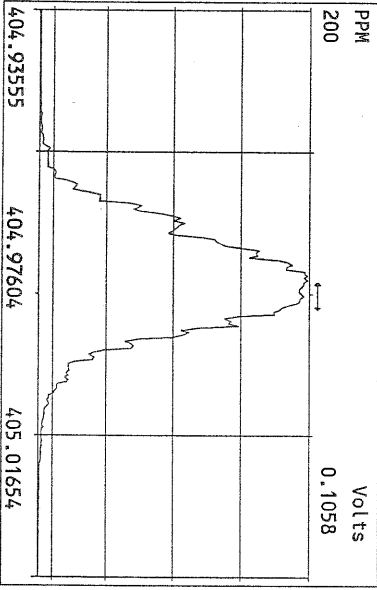
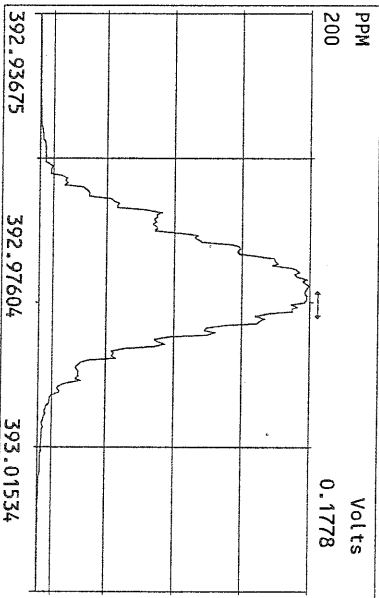
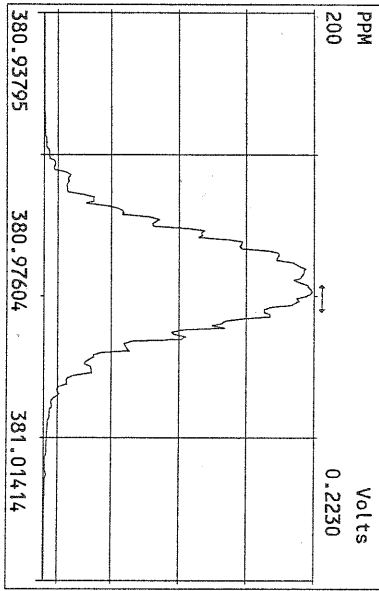
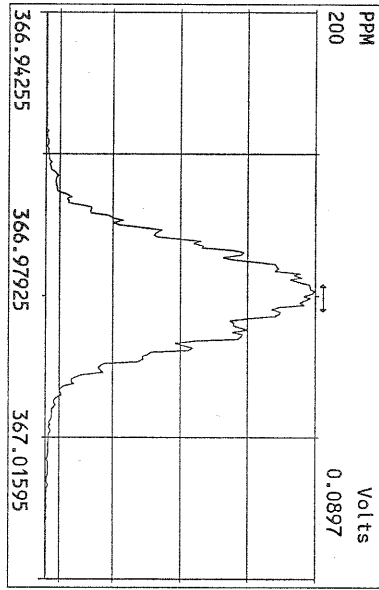
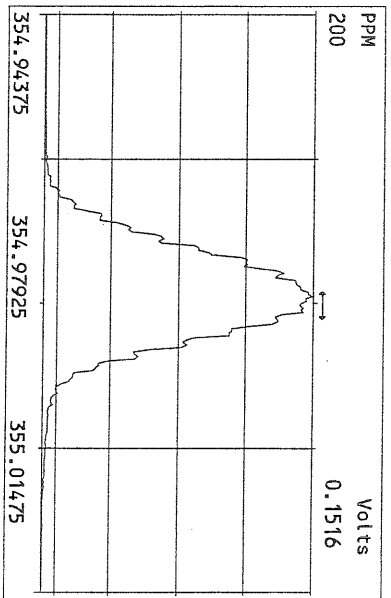
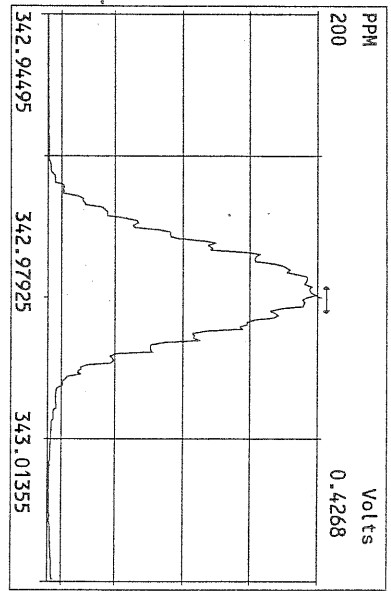
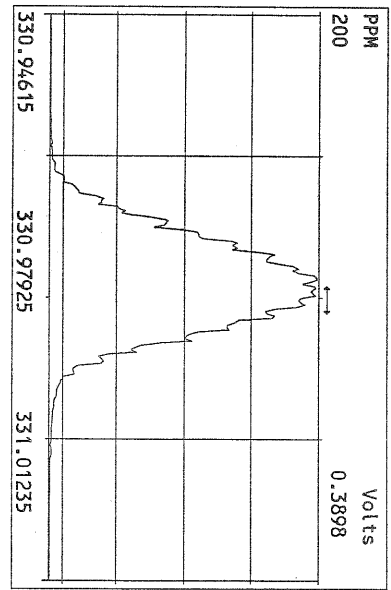
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17AUG10M 8	6271-003-0001-SA	PSB13-2-4-072910 1:10	17-AUG-10 14:22:06	ST081710M1	ST081710M2	BS
17AUG10M 9	QC081710M1	TEST QC	17-AUG-10 15:17:34	ST081710M1	ST081710M2	BS
17AUG10M 10	6276-008-0001-SA	PSB15-4-6-073010 1:20	17-AUG-10 16:13:01	ST081710M1	ST081710M2	BS
17AUG10M 11	6276-005-0001-SA	PSB15-0-0.5-073010 1:100	17-AUG-10 17:08:27	ST081710M1	ST081710M2	BS
17AUG10M 12	6276-002-0001-SA	PSB11-1.5-2-073010 1:200	17-AUG-10 18:03:50	ST081710M1	ST081710M2	BS
17AUG10M 13	6276-003-0001-SA	PSB11-2-4-073010 1:200	17-AUG-10 18:59:16	ST081710M1	ST081710M2	BS
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17AUG10M 15	SB081710M1	Solvent Blank	17-AUG-10 20:49:59	ST081710M1	ST081710M2	BS
17AUG10M 16	ST081710M2	1613 CS3 191908J	17-AUG-10 21:45:19	ST081710M1	ST081710M2	BS
17AUG10M 17	2083-001-0001-OPR	OPR	17-AUG-10 22:40:39	ST081710M2	ST081710M3	BS
17AUG10M 18	2083-001-0001-MB	Method Blank	17-AUG-10 23:35:58	ST081710M2	ST081710M3	BS
17AUG10M 19	6299-001-0001-SA	Barnhardt Sludge #3	18-AUG-10 00:31:17	ST081710M2	ST081710M3	BS
17AUG10M 20	6291-001-0001-SA	0080214-01	18-AUG-10 01:26:39	ST081710M2	ST081710M3	BS
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17AUG10M 23	6274-002-0001-SA	PSB9A-2-4-073010	18-AUG-10 04:12:36	ST081710M2	ST081710M3	BS
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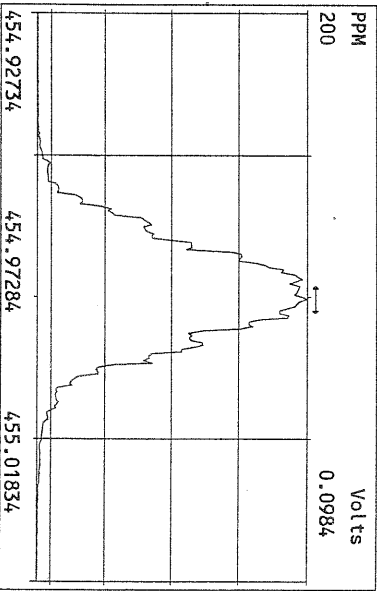
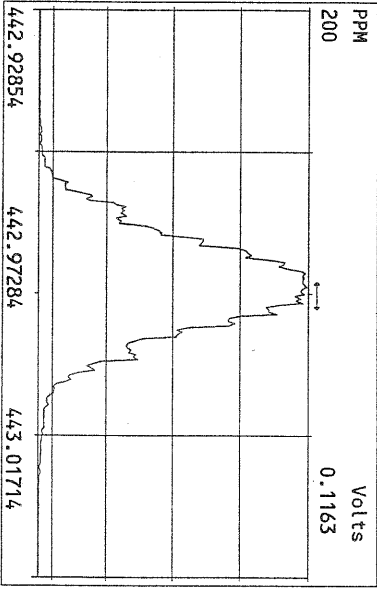
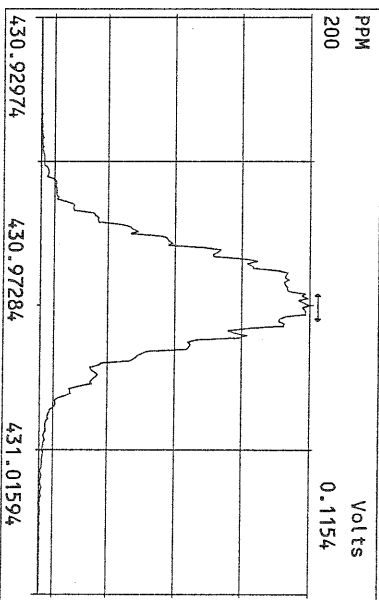
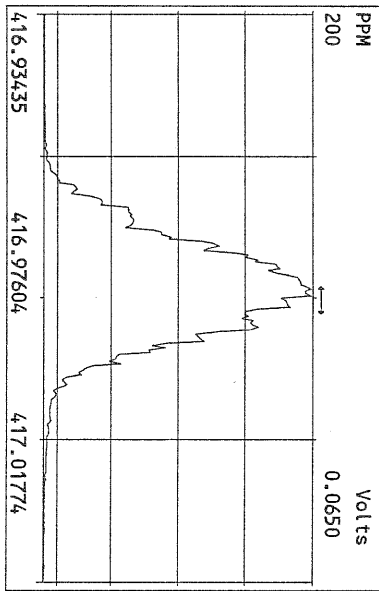
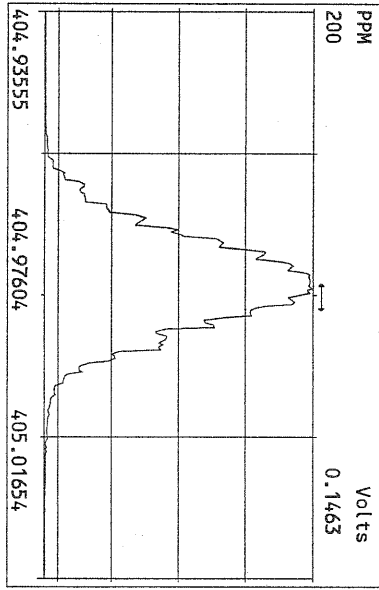
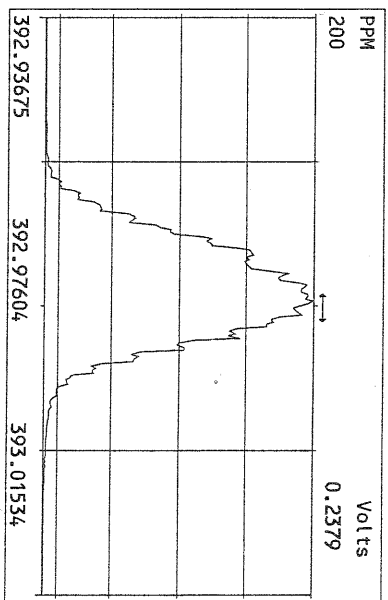
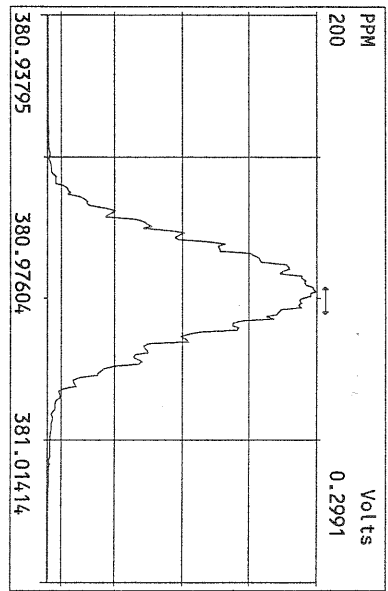
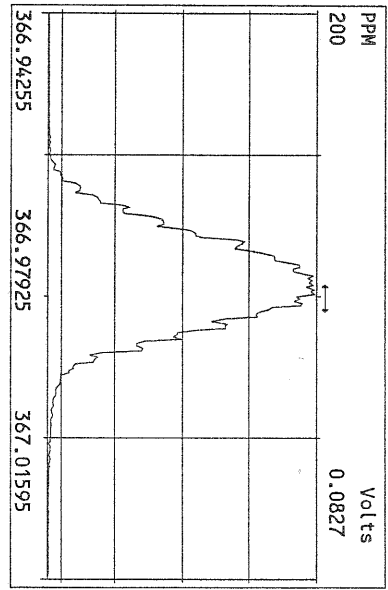
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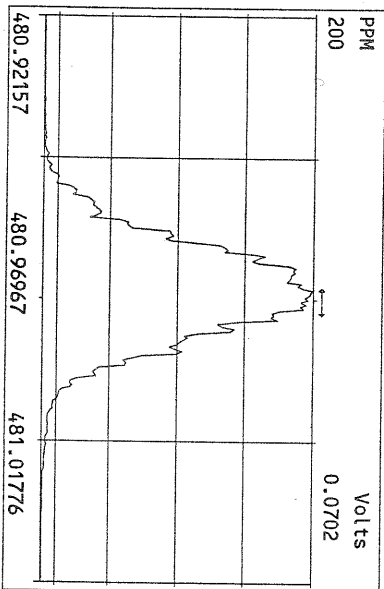
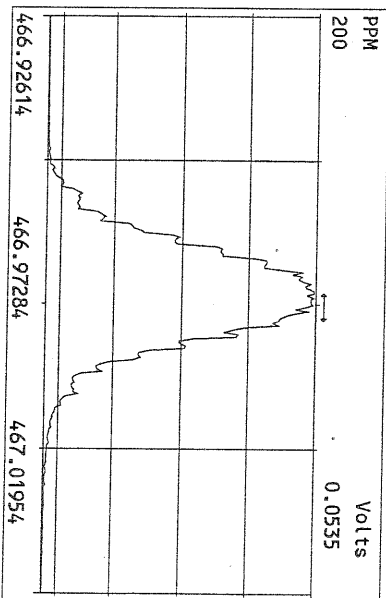
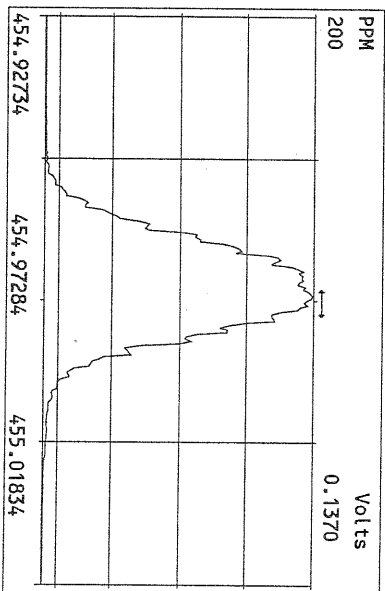
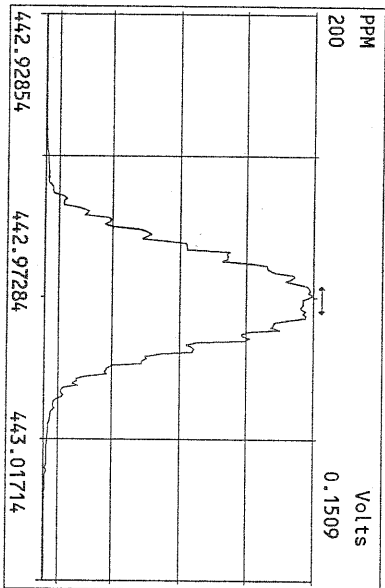
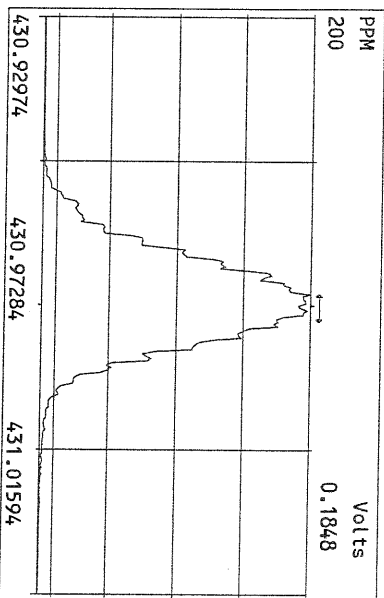
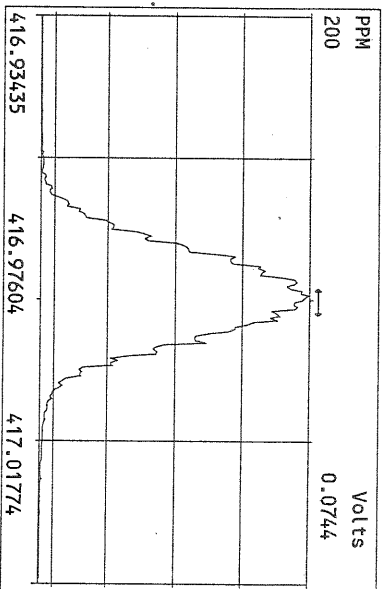
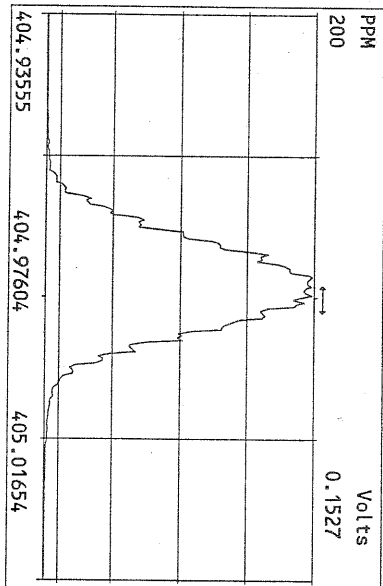
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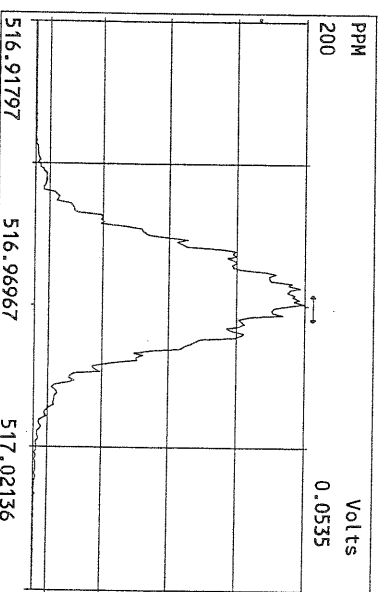
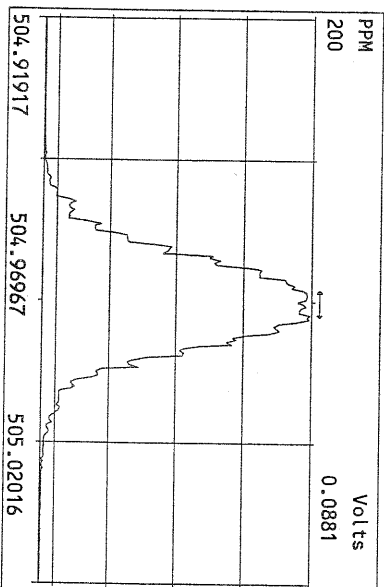
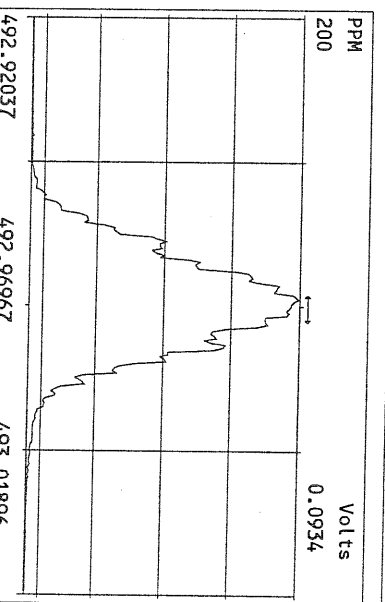
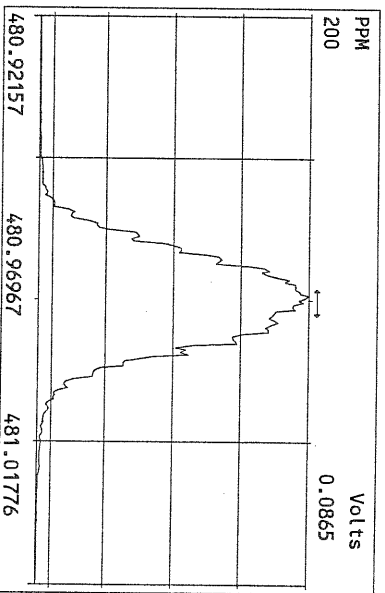
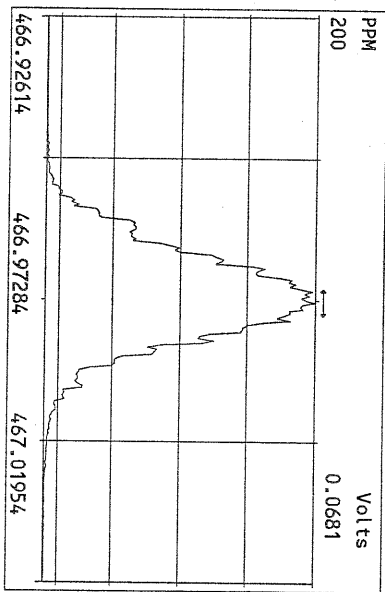
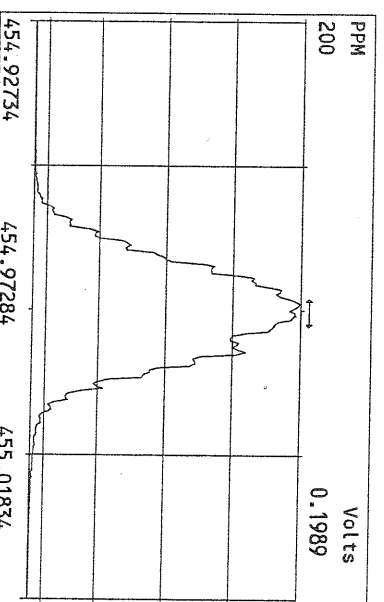
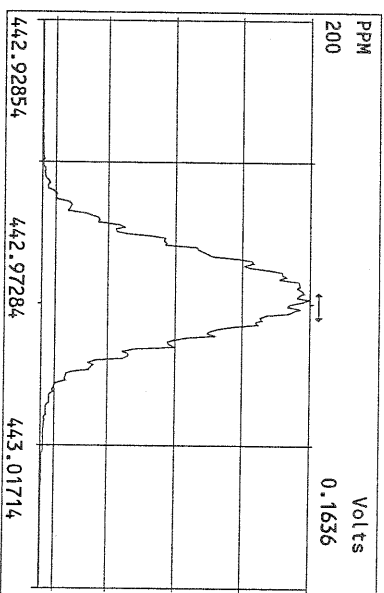
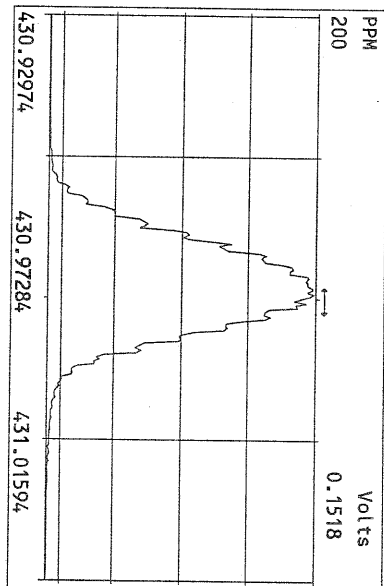
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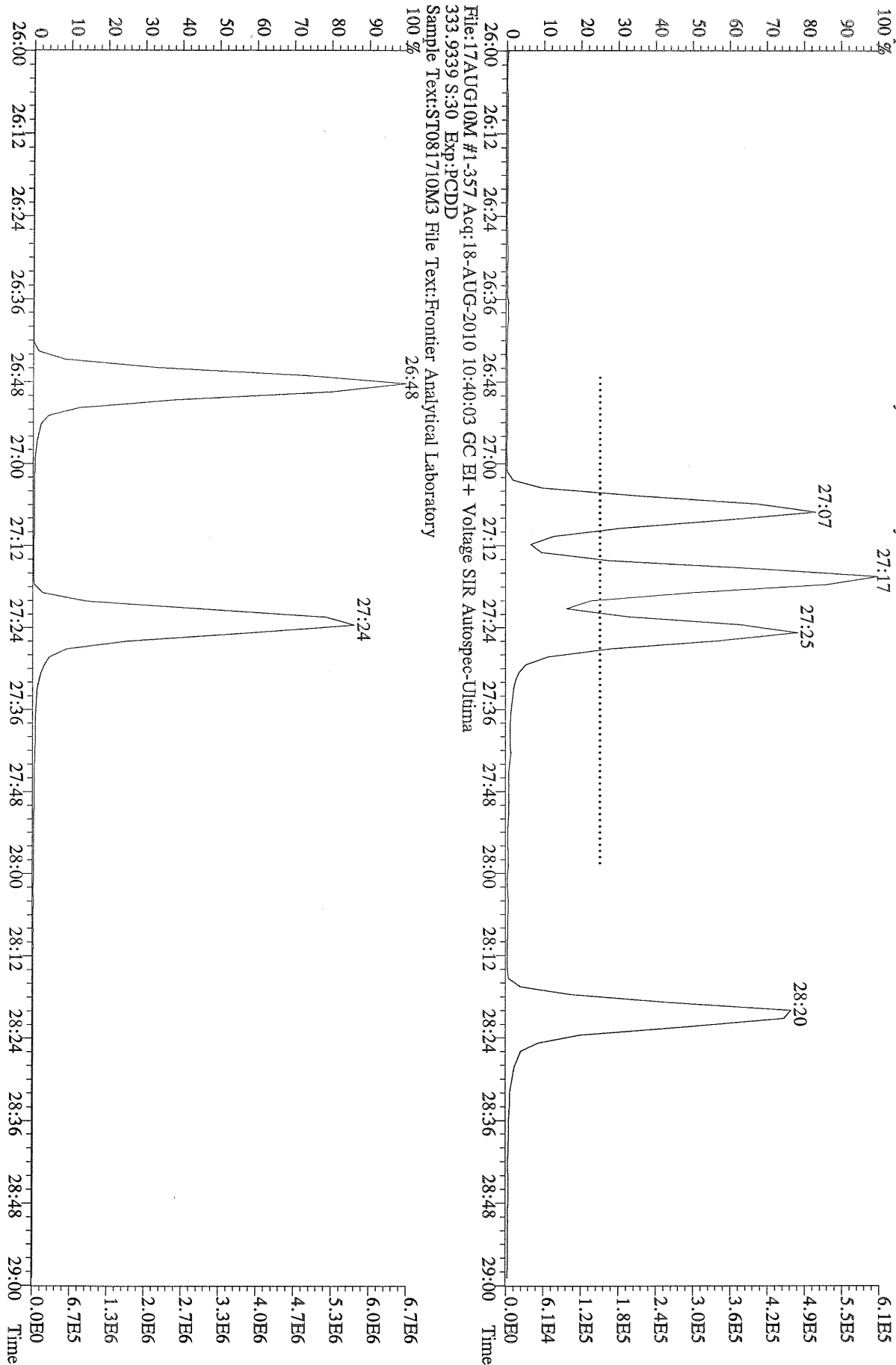




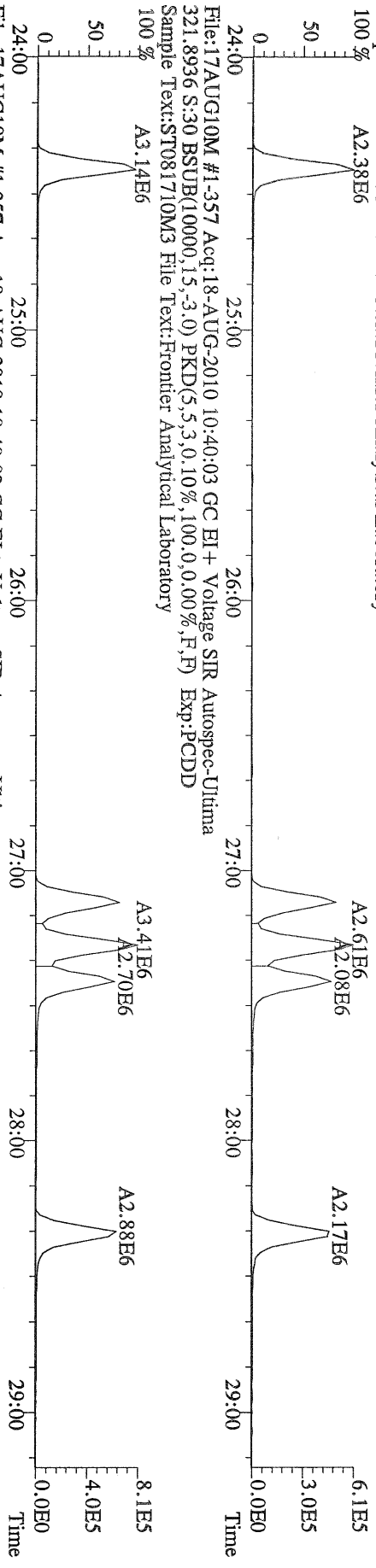




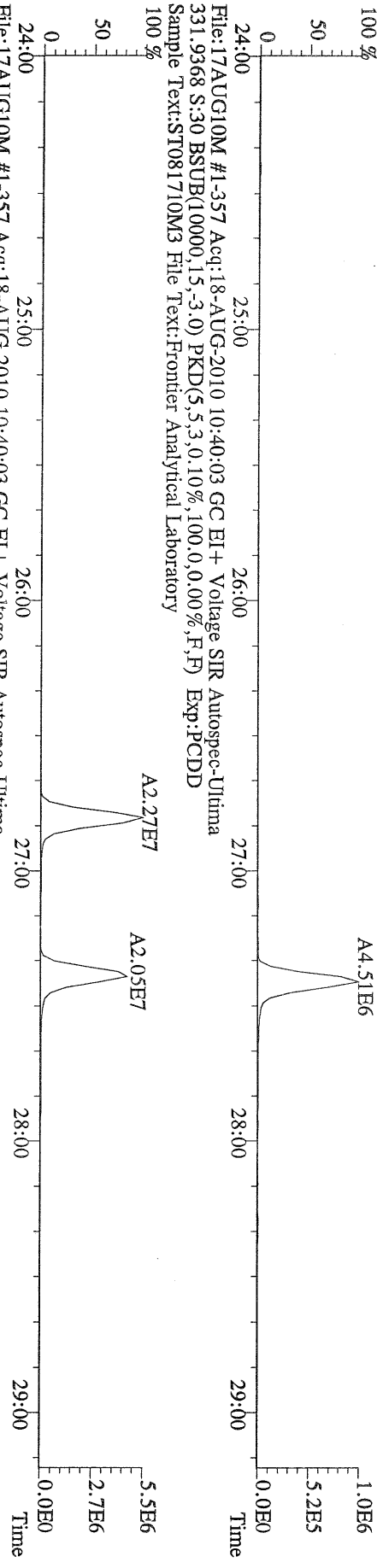
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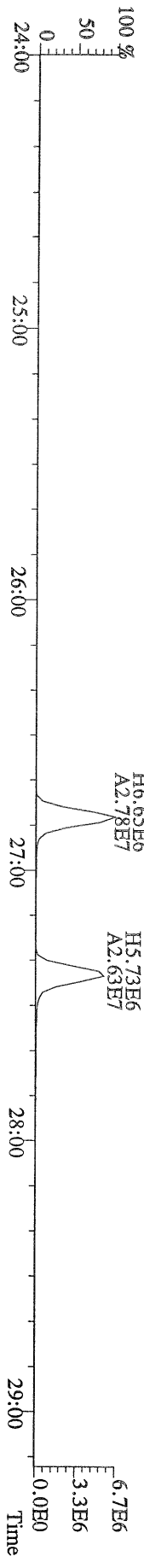
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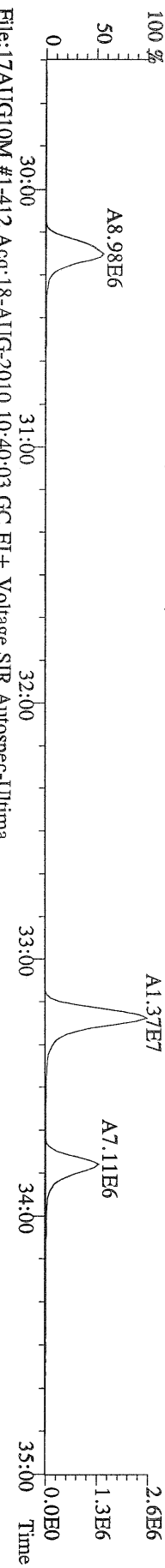
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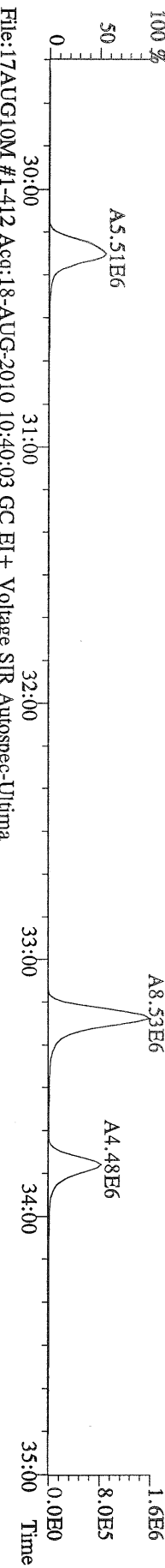
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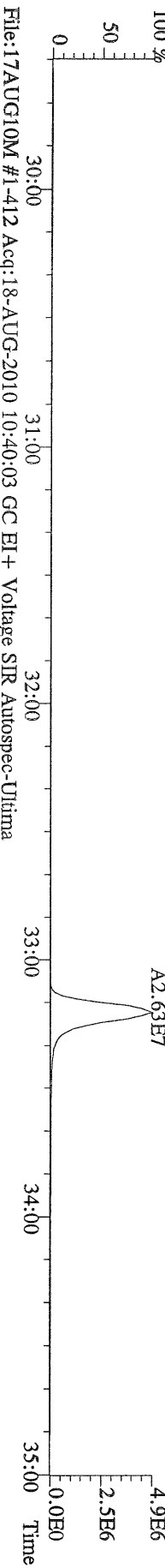
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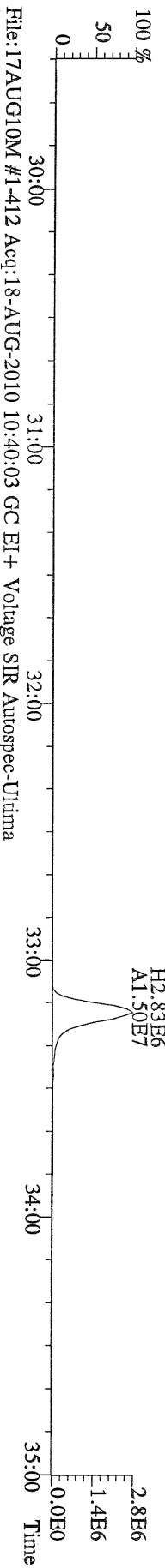
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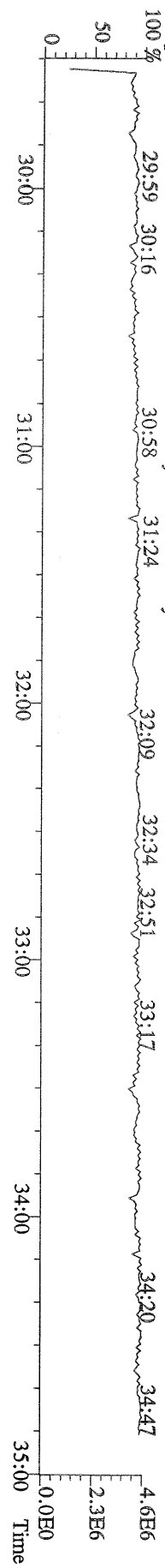
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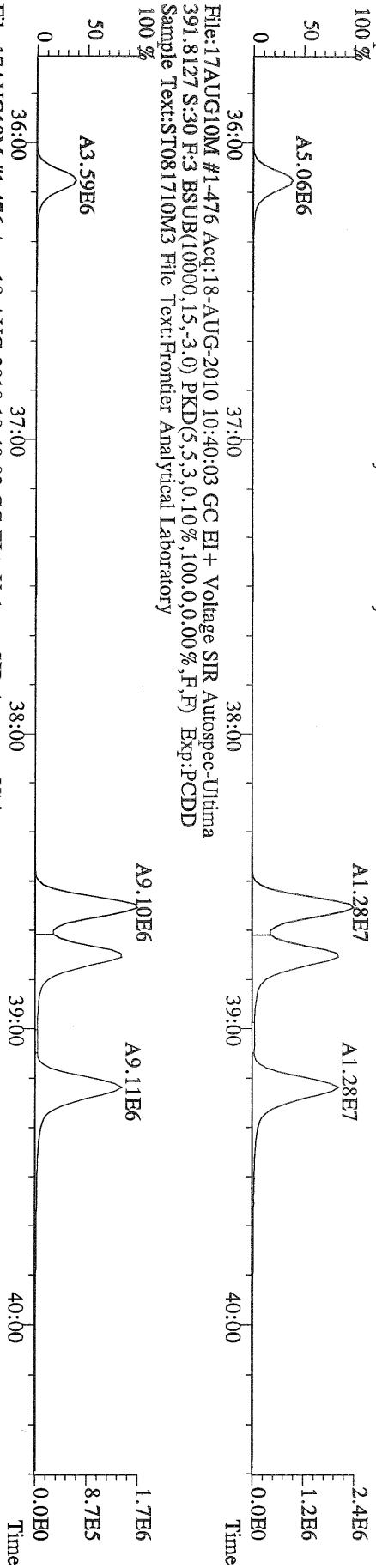
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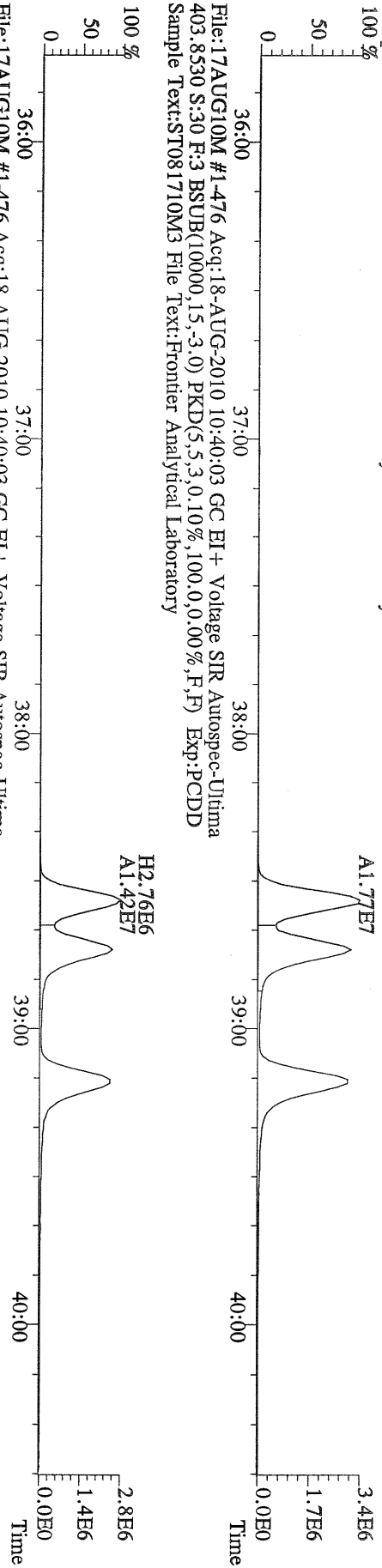
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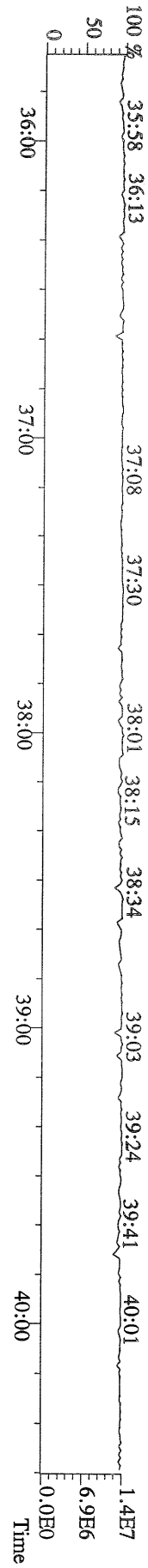
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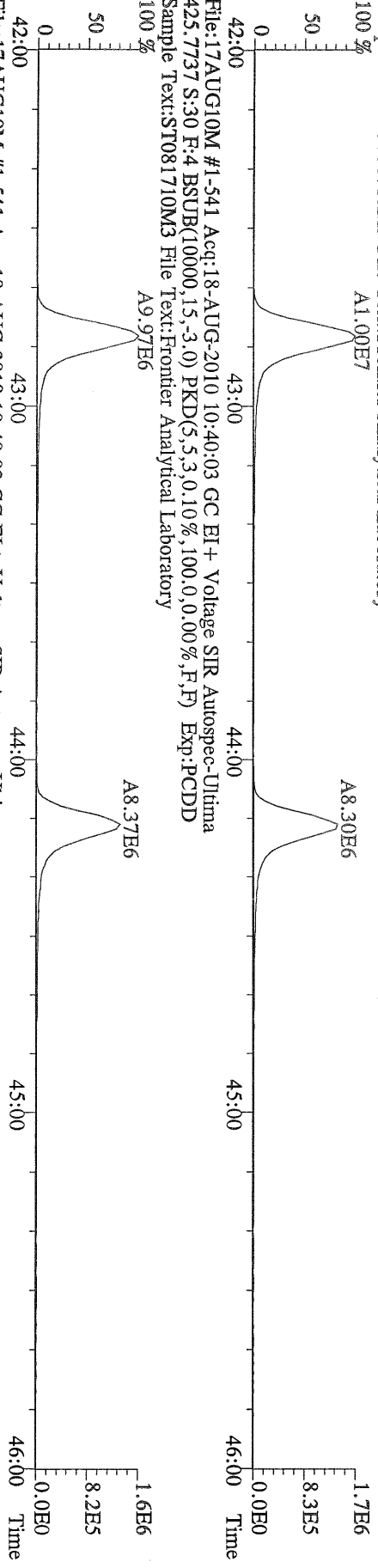
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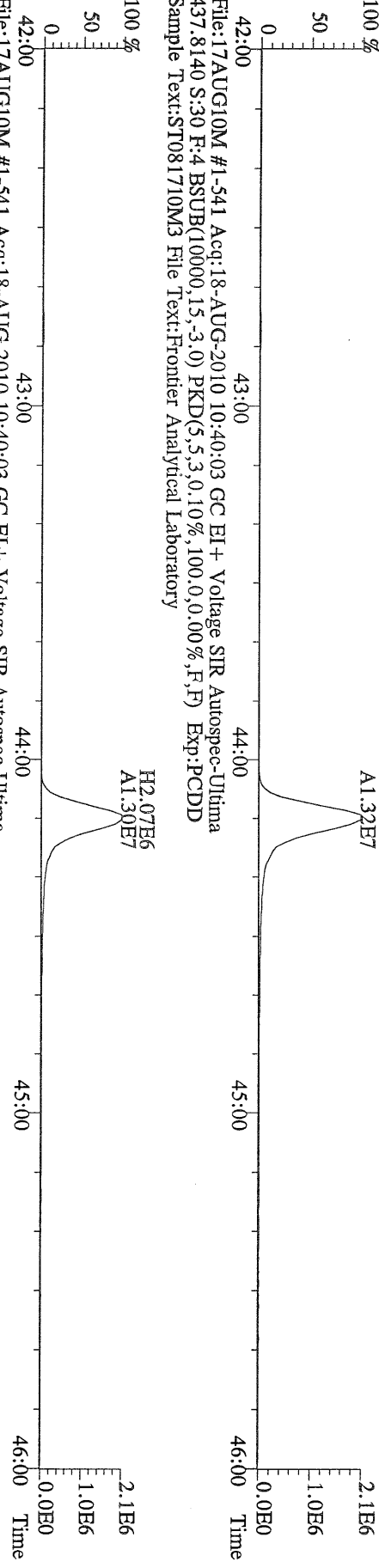
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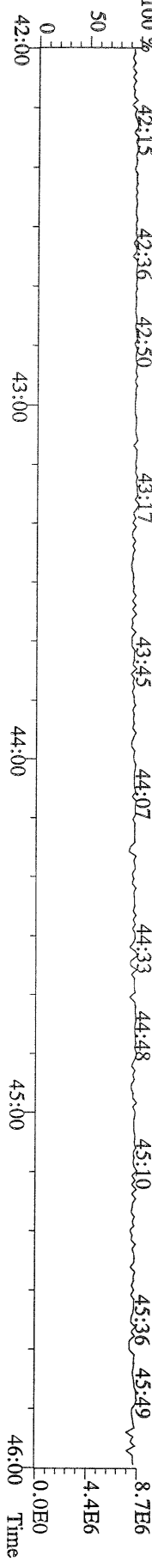
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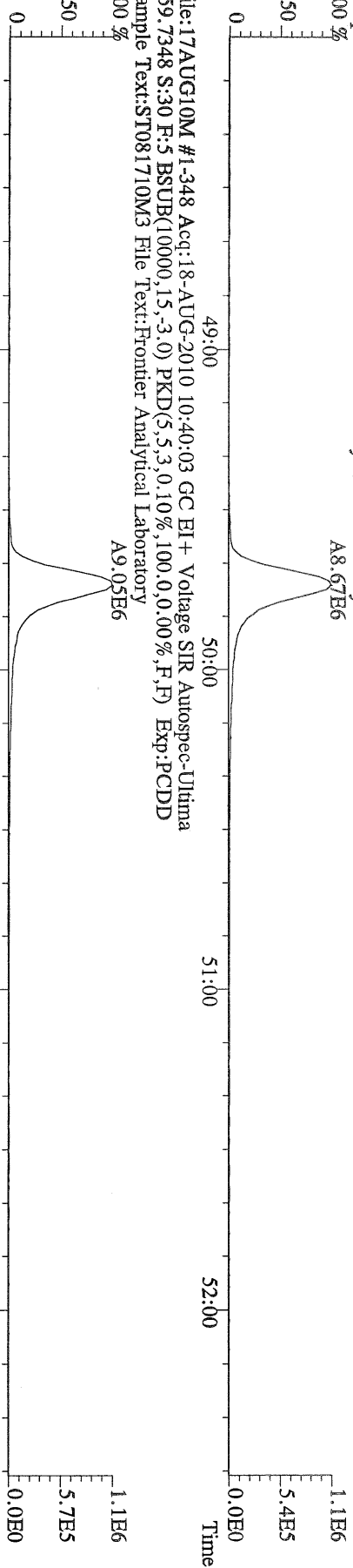
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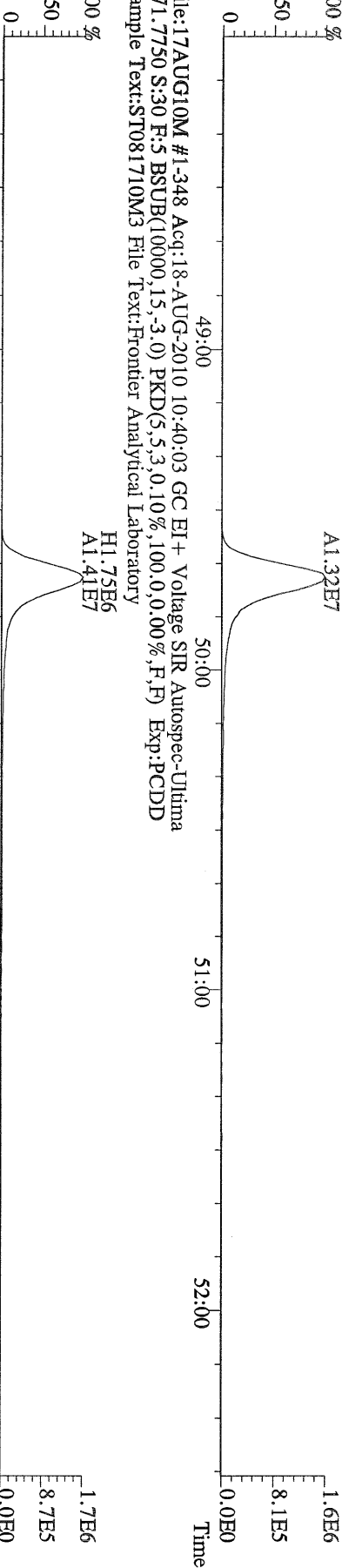
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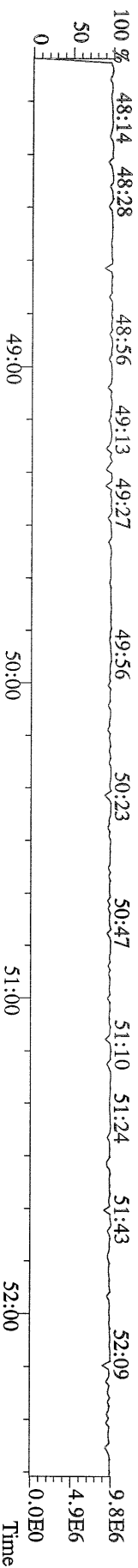
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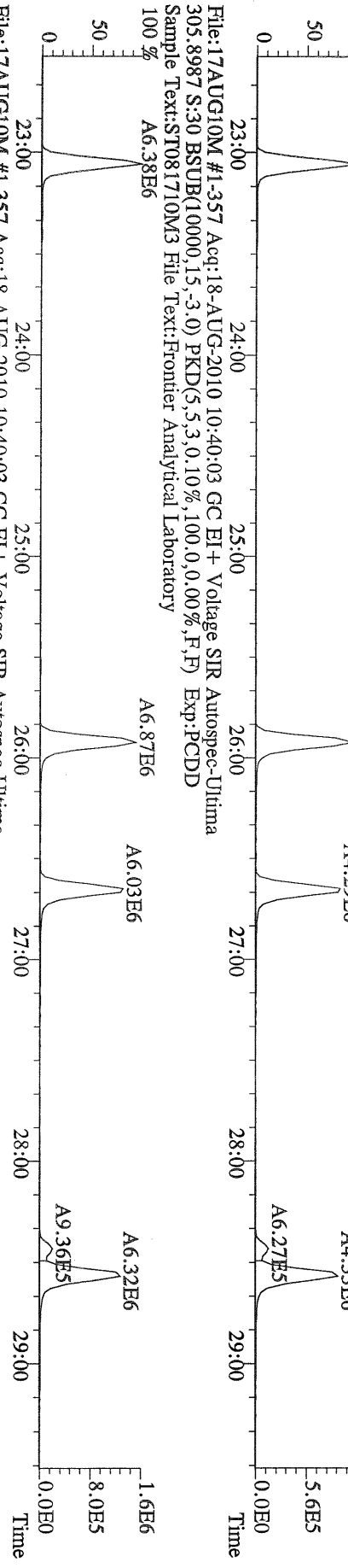
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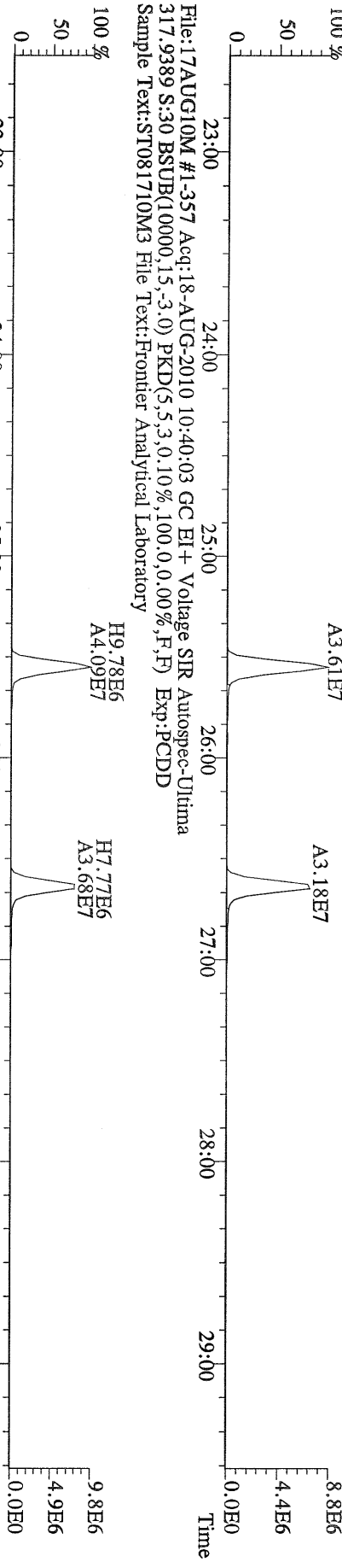
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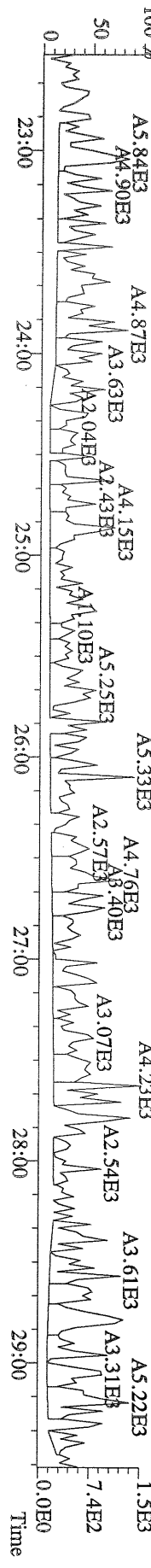
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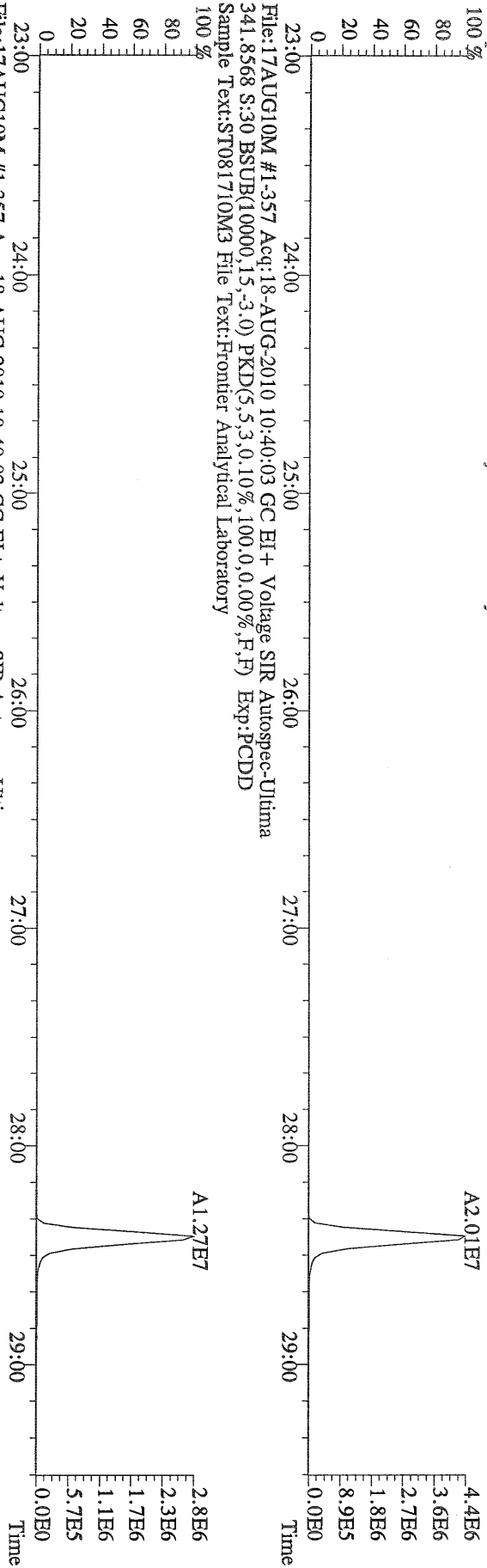
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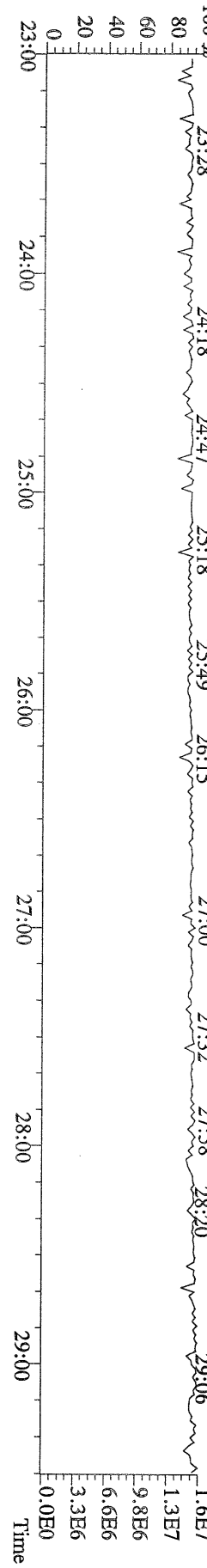
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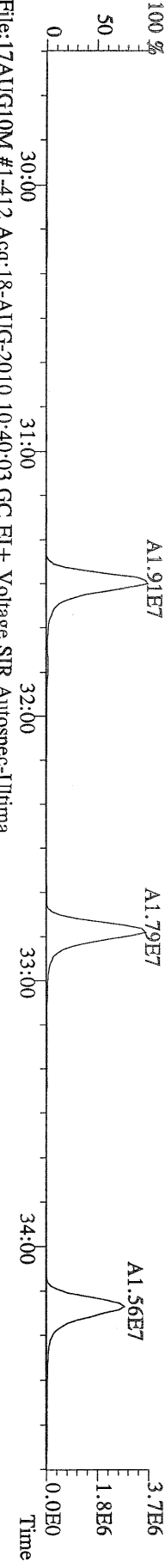
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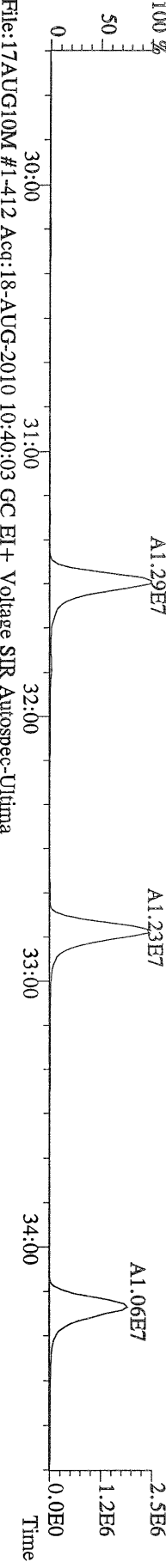
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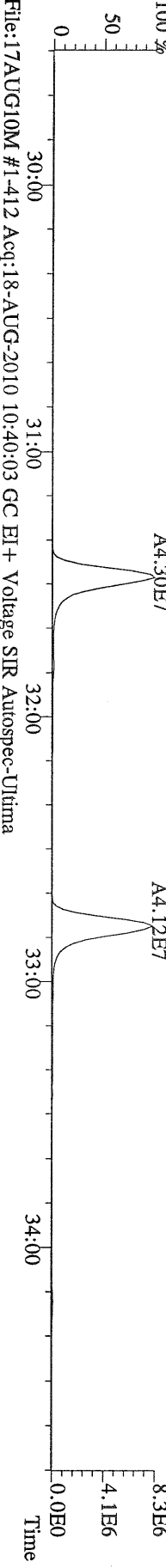
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 339.8597 S:30 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



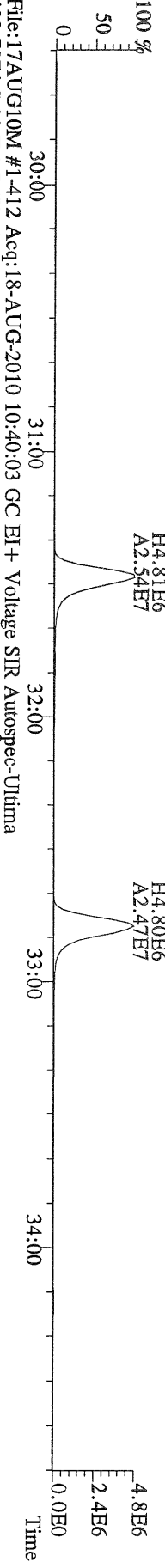
File:17AUG10M #1-412 Acq:18-AUG-2010 10:40:03 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:30 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



File:17AUG10M #1-412 Acq:18-AUG-2010 10:40:03 GC EI+ Voltage SIR Autospec-Ultima
 351.9000 S:30 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



File:17AUG10M #1-412 Acq:18-AUG-2010 10:40:03 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:30 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory



File:17AUG10M #1-412 Acq:18-AUG-2010 10:40:03 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:30 F:2 BSUB(10000,15,-3.0) PKD(5.5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:ST081710M3 File Text:Frontier Analytical Laboratory

