

6740
 0°

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

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

Analytical Protocol: In-house
 Special Instructions:

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

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

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

LU & CDP

12832 69501 4992 2979
 12832 69501 5025 8382

| | | | | | |
|-----------------|---------------|---------|-----------------------|------|---------|
| Carrier | UPS | Airbill | 12832 69501 4933 4999 | Date | 4/28/11 |
| Relinquished by | Mirka Tulumba | Company | ARI | Date | 4/28/11 |
| | | | | Time | 1506 |
| Received by | Tom Chalkley | Company | Frontier | Date | 4/29/11 |
| | | | | Time | 1040 AM |

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **6740**

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

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





Frontier Analytical Laboratory

PROJECT REQUEST SHEET

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

COMMENTS/INSTRUCTIONS:

-NO CAP-

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

Results: 6740

Instrument: FALC4
 DB5 _____
 DB225 _____
 DB1 _____
 Other _____

Extract/s located in box: "Transistors"

Standards: 6739

Frontier Analytical Laboratory Percent Solids

FAL Project: 6740

| | Sample ID | Chemist | Date | Wet Sample Weight (g) | Dry Sample Weight (g) | % Solids | 10g Equiv |
|------|------------------|---------|---------|-----------------------|-----------------------|----------|-----------|
| 1.32 | 6740-001-0001-SA | DN | 5/17/11 | 19.64g | 0.00g | 0% | — |
| 1.32 | 6740-002-0001-SA | ↓ | ↓ | 17.00g | 0.00g | 0% | — |
| 1.32 | 6740-003-0001-SA | ↓ | ↓ | 17.47g | 0.00g | 0% | — |
| 1.32 | 6740-004-0001-SA | ↓ | ↓ | 19.56g | 0.00g | 0% | — |
| 1.32 | 6740-005-0001-SA | ↓ | ↓ | 17.73g | 0.00g | 0% | — |
| 1.32 | 6740-006-0001-SA | ↓ | ↓ | 20.50g | 0.00g | 0% | — |
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% Solids Summary:

Non-Filtered Determination

- 1. Place an aliquot of sample into a pre-weighed aluminum weighing boat. Use approximately two to ten grams for solid samples, approximately 10 mL for aqueous samples.
- 2. Record the weight.
- 3. Dry sample overnight at approximately 110 C.

Filtered Determination

- 1. Pre-weigh a glass fiber filter of appropriate pore size and pressure filter a sample aliquot (200-1000mL) through it.
- 2. Air dry the filter and record the dry weight.

% Solids calculation

Frontier Analytical Laboratory

EXTRACTION SHEET

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

Method/Analysis: EPA 1613 D/F

Procedure: SPE/SOX

Solvent: Toluene

6739

| Sample ID | Wet wt. (g/L) | Dry wt. (g/L) | IS | NS | CSS |
|-------------------|------------------|------------------|---|---|---|
| | | | Amt: 10.0uL ID: 100511A Vial: 6 Chemist/Witness/Date | Amt: 10.0uL ID: 100511B Vial: 6 Chemist/Witness/Date | Amt: 10.0uL ID: 100511C Vial: 6 Chemist/Witness/Date |
| 2293-001-0001-MB | | | | | |
| 2293-001-0001-OPR | | | | | |
| 6740-001-0001-SA | 1.030L | N/A | DN GN 5/17/11 | N/A | DN GN 5.18.11 |
| 6740-002-0001-SA | 1.030L | ↓ | ↓ | ↓ | ↓ |
| 6740-003-0001-SA | 1.036L | ↓ | ↓ | ↓ | ↓ |
| 6740-004-0001-SA | 1.029L | ↓ | ↓ | ↓ | ↓ |
| 6740-005-0001-SA | 1.032L | ↓ | ↓ | ↓ | ↓ |
| 6740-006-0001-SA | 1.032L | ↓ | ↓ | ↓ | ↓ |
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|------------------------|---------|----------------|----------|--------------------------|----------|-------------|-----------|
| AX-21 Charcoal Cleaned | 082510 | Acetone | 107203 | Acid Alumina | A0281479 | Hexane | 110182 |
| Hydrochloric Acid | B08505 | Methanol | 108367 | Methylene Chloride (DCM) | 51020 | Silica Gel | TA1592834 |
| Sodium Hydroxide | 0062836 | Sodium Sulfate | 1750C277 | Sulfuric Acid | 110205 | Tetradecane | 086237 |
| Toluene | 108273 | Water | 51004 | C-18 Empore Discs | 320552 | Cyclohexane | 50204 |

Comments:

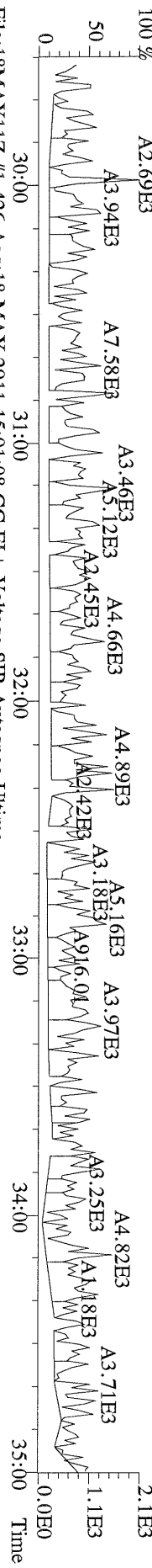
Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 0.00 WHO 1998 Tox: 0.00 WHO 2005 Tox: 0.00

| Name | Resp | RA | RT | RRF | Conc | Qual | Fac Noise-1 | Noise-2 | DL | #Hom | |
|--------------------------|----------|--------|--------|------|------|------|-------------|---------|------|-------|---------|
| 2,3,7,8-TCDD | * | * n | NotFnd | 1.15 | * | | 2.50 | 608 | 754 | 0.866 | |
| 1,2,3,7,8-PeCDD | * | * n | NotFnd | 1.02 | * | | 2.50 | 571 | 275 | 0.894 | |
| 1,2,3,4,7,8-HxCDD | * | * n | NotFnd | 1.09 | * | | 2.50 | 545 | 525 | 1.19 | |
| 1,2,3,6,7,8-HxCDD | * | * n | NotFnd | 1.08 | * | | 2.50 | 545 | 525 | 1.50 | |
| 1,2,3,7,8,9-HxCDD | * | * n | NotFnd | 1.12 | * | | 2.50 | 545 | 525 | 1.30 | |
| 1,2,3,4,6,7,8-HpCDD | * | * n | NotFnd | 1.03 | * | | 2.50 | 590 | 472 | 2.13 | |
| OCDD | * | * n | NotFnd | 1.21 | * | | 2.50 | 345 | 558 | 2.71 | |
| 2,3,7,8-TCDF | * | * n | NotFnd | 1.09 | * | | 2.50 | 554 | 1010 | 0.712 | |
| 1,2,3,7,8-PeCDF | * | * n | NotFnd | 0.96 | * | | 2.50 | 514 | 1140 | 1.26 | |
| 2,3,4,7,8-PeCDF | * | * n | NotFnd | 0.96 | * | | 2.50 | 514 | 1140 | 1.27 | |
| 1,2,3,4,7,8-HxCDF | * | * n | NotFnd | 1.18 | * | | 2.50 | 534 | 376 | 0.892 | |
| 1,2,3,6,7,8-HxCDF | * | * n | NotFnd | 1.03 | * | | 2.50 | 534 | 376 | 0.849 | |
| 2,3,4,6,7,8-HxCDF | * | * n | NotFnd | 1.17 | * | | 2.50 | 534 | 376 | 0.831 | |
| 1,2,3,7,8,9-HxCDF | * | * n | NotFnd | 1.27 | * | | 2.50 | 534 | 376 | 0.768 | |
| 1,2,3,4,6,7,8-HpCDF | * | * n | NotFnd | 1.36 | * | | 2.50 | 466 | 438 | 1.09 | |
| 1,2,3,4,7,8,9-HpCDF | * | * n | NotFnd | 1.35 | * | | 2.50 | 466 | 438 | 1.39 | |
| OCDF | * | * n | NotFnd | 0.97 | * | | 2.50 | 340 | 605 | 2.46 | |
| | | | | | | | | | | | Rec |
| 13C-2,3,7,8-TCDD | 3.13e+07 | 0.80 y | 27:24 | 0.99 | 1960 | | | | | 98.2 | |
| 13C-1,2,3,7,8-PeCDD | 2.29e+07 | 1.59 y | 33:14 | 0.79 | 1790 | | | | | 89.7 | |
| 13C-1,2,3,4,7,8-HxCDD | 2.04e+07 | 1.27 y | 38:36 | 1.03 | 1920 | | | | | 96.1 | |
| 13C-1,2,3,6,7,8-HxCDD | 1.81e+07 | 1.28 y | 38:46 | 0.96 | 1840 | | | | | 92.0 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.45e+07 | 1.07 y | 44:10 | 0.75 | 1890 | | | | | 94.4 | |
| 13C-OCDD | 2.07e+07 | 0.92 y | 49:42 | 0.50 | 3990 | | | | | 99.8 | |
| 13C-2,3,7,8-TCDF | 4.57e+07 | 0.80 y | 26:38 | 0.98 | 1970 | | | | | 98.3 | |
| 13C-1,2,3,7,8-PeCDF | 3.18e+07 | 1.61 y | 31:32 | 0.78 | 1730 | | | | | 86.4 | |
| 13C-2,3,4,7,8-PeCDF | 3.23e+07 | 1.58 y | 32:50 | 0.75 | 1810 | | | | | 90.3 | |
| 13C-1,2,3,4,7,8-HxCDF | 2.19e+07 | 0.52 y | 37:12 | 1.05 | 2020 | | | | | 101 | |
| 13C-1,2,3,6,7,8-HxCDF | 2.85e+07 | 0.52 y | 37:24 | 1.40 | 1980 | | | | | 98.8 | |
| 13C-2,3,4,6,7,8-HxCDF | 2.43e+07 | 0.52 y | 38:21 | 1.16 | 2040 | | | | | 102 | |
| 13C-1,2,3,7,8,9-HxCDF | 2.64e+07 | 0.52 y | 39:47 | 1.30 | 1970 | | | | | 98.6 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 1.70e+07 | 0.45 y | 42:17 | 0.83 | 2000 | | | | | 100.0 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.42e+07 | 0.46 y | 45:05 | 0.69 | 1980 | | | | | 99.2 | |
| 13C-OCDF | 2.95e+07 | 0.88 y | 50:04 | 0.77 | 3720 | | | | | 93.0 | |
| 37Cl-2,3,7,8-TCDD | 9.06e+06 | | 27:25 | 0.71 | 792 | | | | | 99.0 | |
| 13C-1,2,3,4-TCDD | 3.22e+07 | 0.81 y | 26:49 | - | 60.3 | | | | | | |
| 13C-1,2,3,4-TCDF | 4.75e+07 | 0.79 y | 25:31 | - | 63.4 | | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 2.06e+07 | 1.27 y | 39:12 | - | 53.3 | | | | | | |
| Total Tetra-Dioxins | * | | NotFnd | 1.15 | * | | 2.50 | 608 | 754 | 0.866 | 0 |
| Total Penta-Dioxins | * | | NotFnd | 1.02 | * | | 2.50 | 571 | 275 | 0.894 | 0 |
| Total Hexa-Dioxins | * | | NotFnd | 1.10 | * | | 2.50 | 545 | 525 | 1.50 | 0 |
| Total Hepta-Dioxins | * | | NotFnd | 1.03 | * | | 2.50 | 590 | 472 | 2.13 | 0 |
| Total Tetra-Furans | * | | NotFnd | 1.09 | * | | 2.50 | 554 | 1010 | 0.712 | 0 |
| 1st Fn. Tot Penta-Furans | * | | NotFnd | 0.96 | * | | 2.50 | 514 | 1140 | 1.27 | PeCDF 0 |
| Total Penta-Furans | * | | NotFnd | 0.96 | * | | 2.50 | 514 | 1140 | 1.27 | 0.00 0 |
| Total Hexa-Furans | * | | NotFnd | 1.16 | * | | 2.50 | 534 | 376 | 0.892 | 0 |
| Total Hepta-Furans | * | | NotFnd | 1.36 | * | | 2.50 | 466 | 438 | 1.39 | 0 |

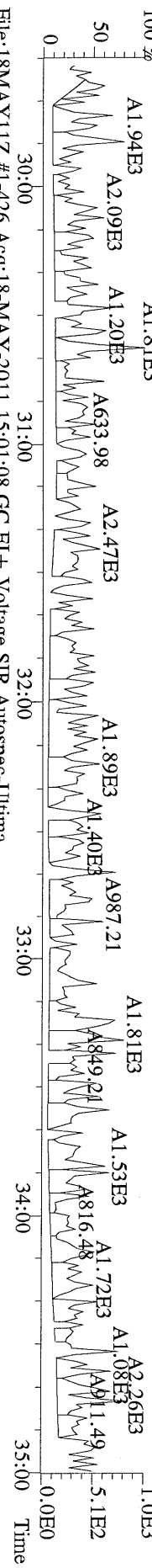
Analyst: J

Date: 5/19/11

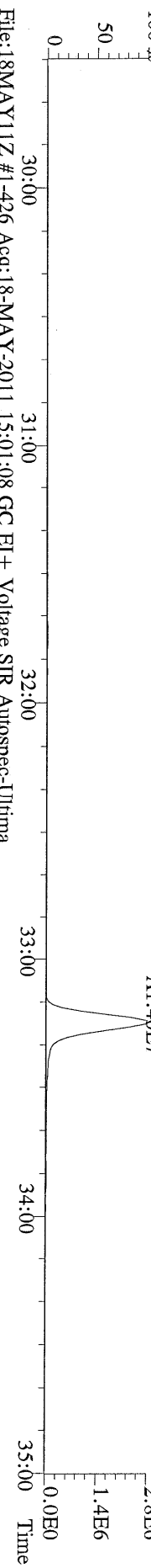
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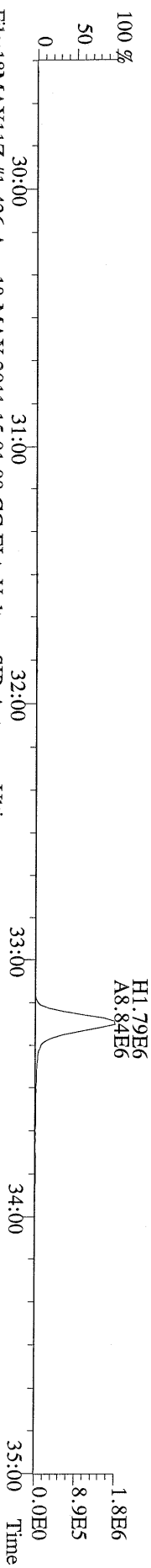
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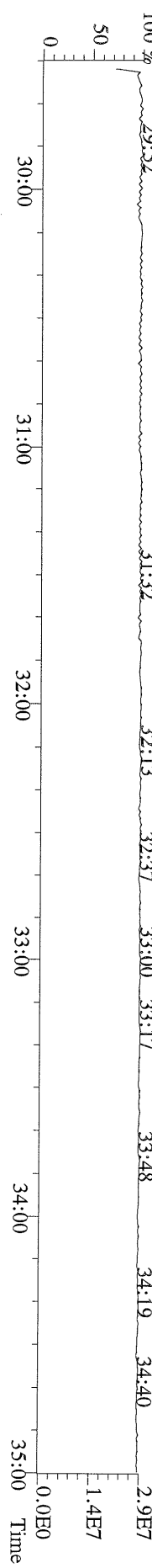
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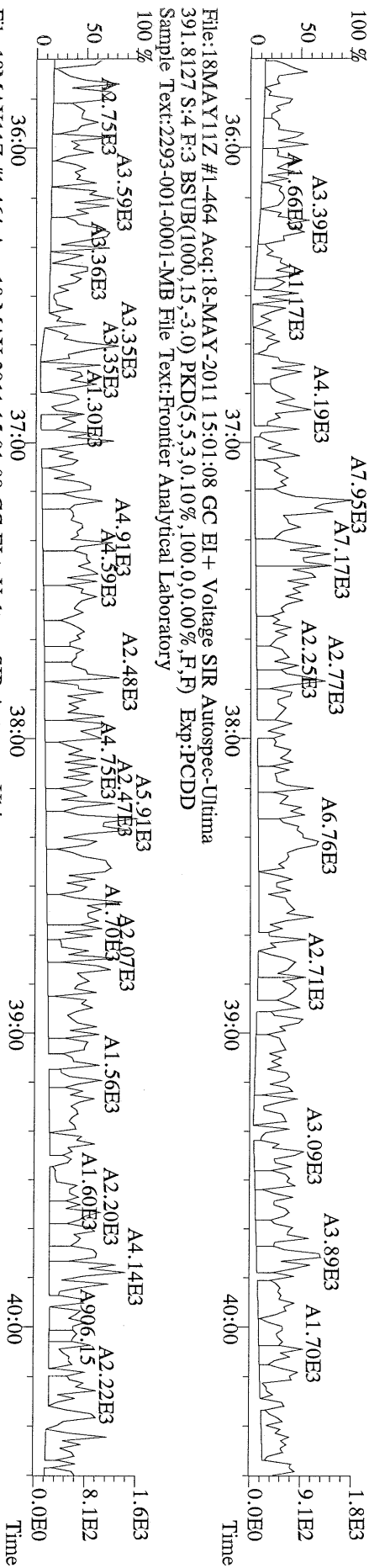
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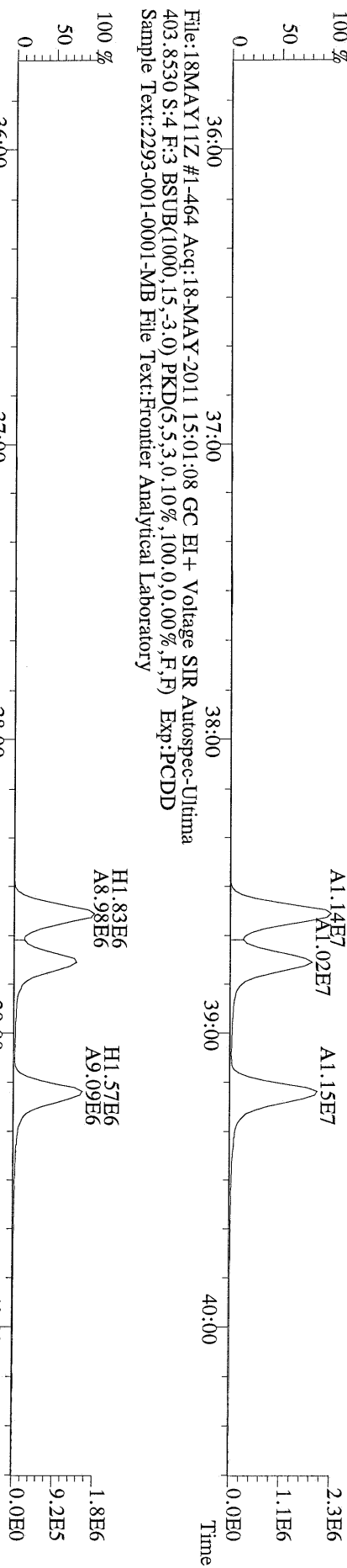
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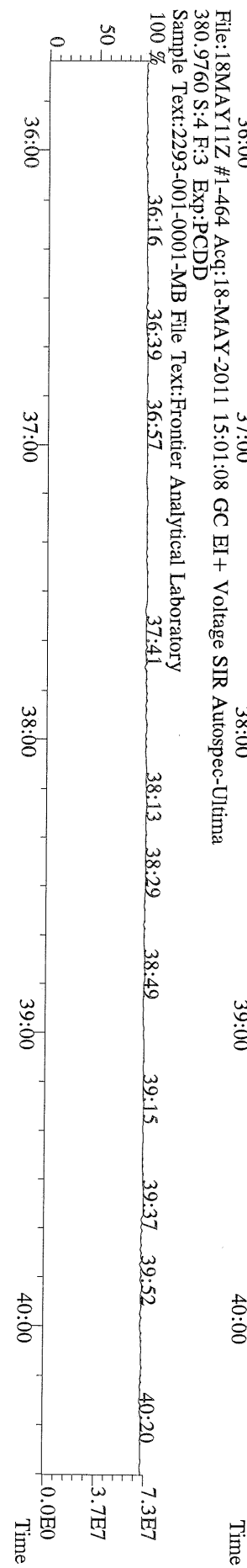
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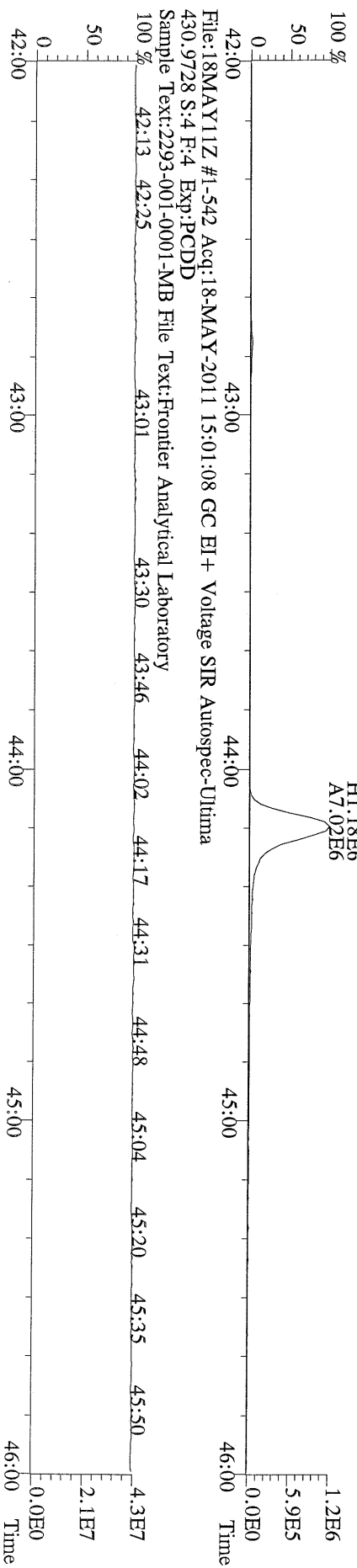
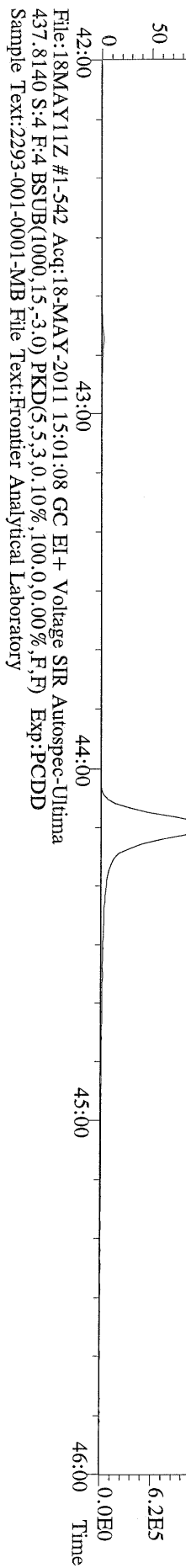
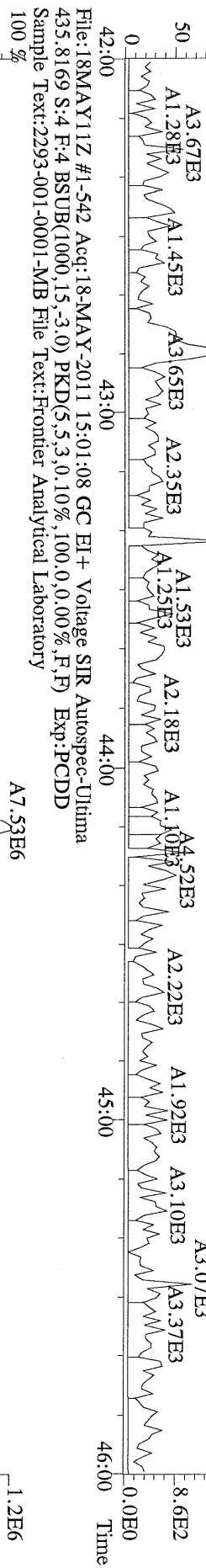
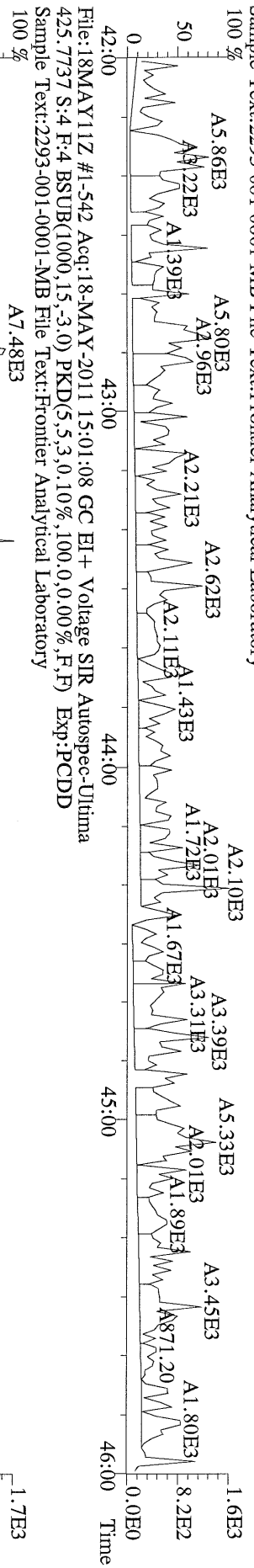
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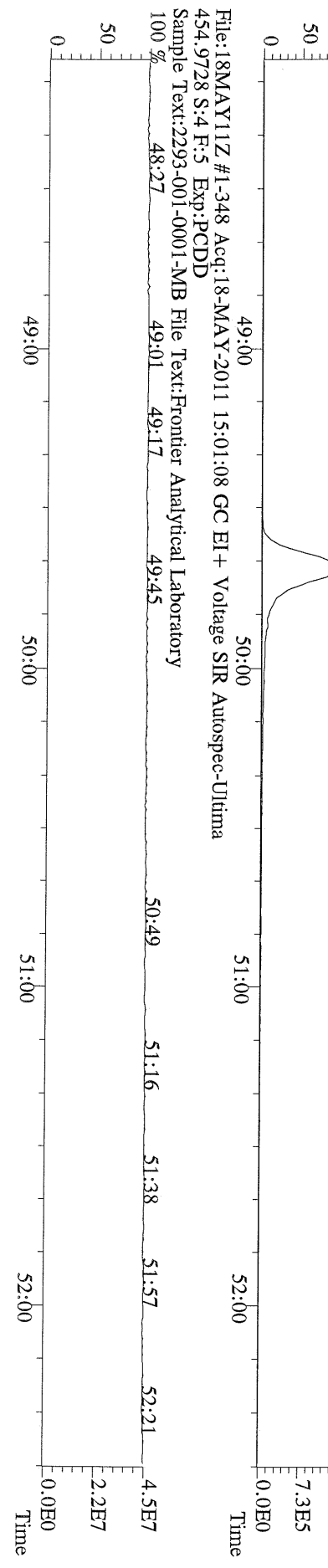
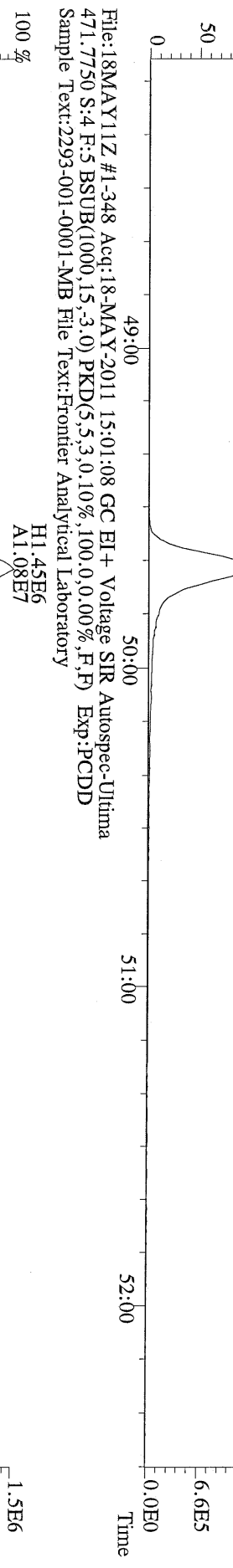
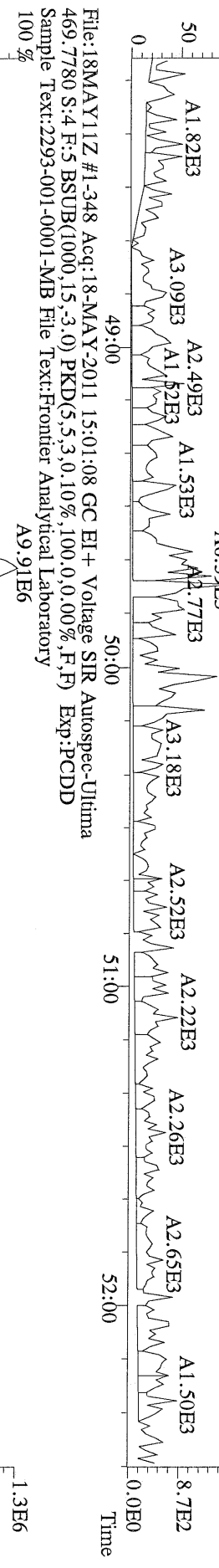
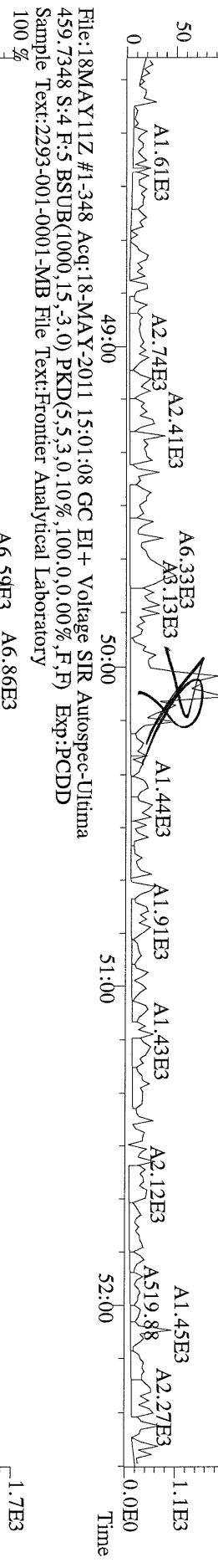
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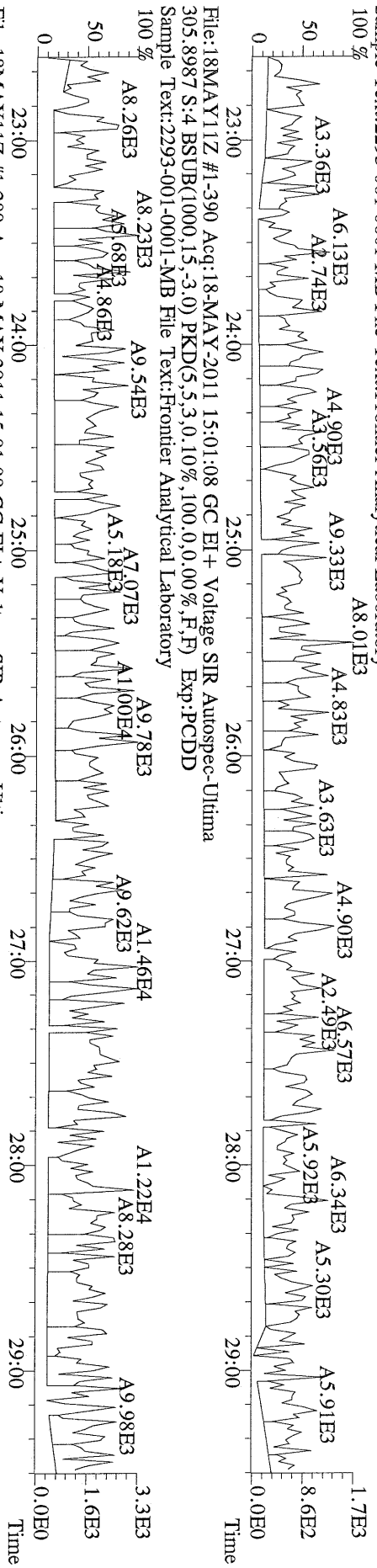
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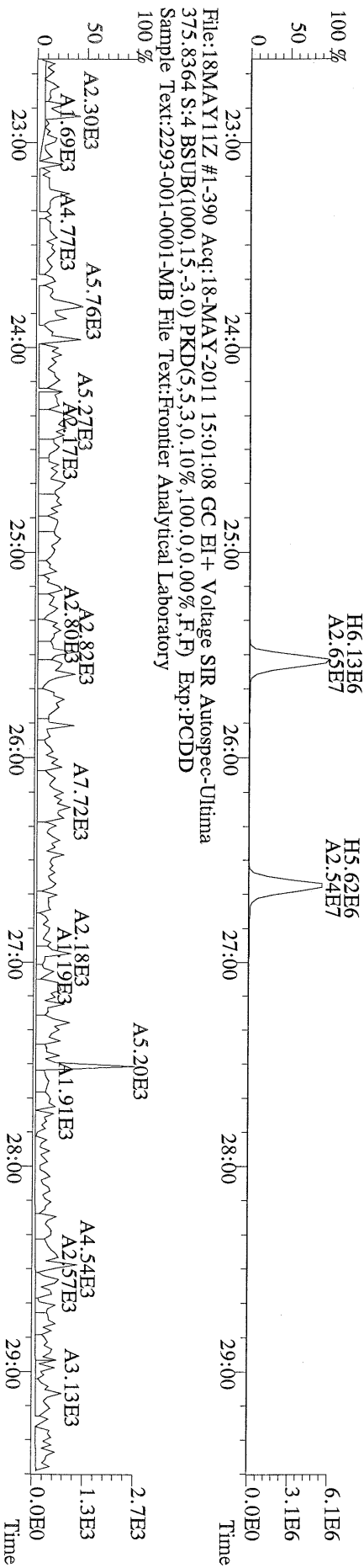
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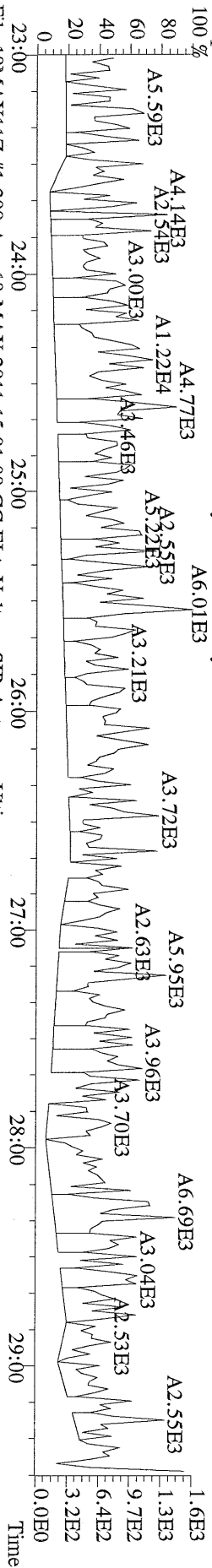
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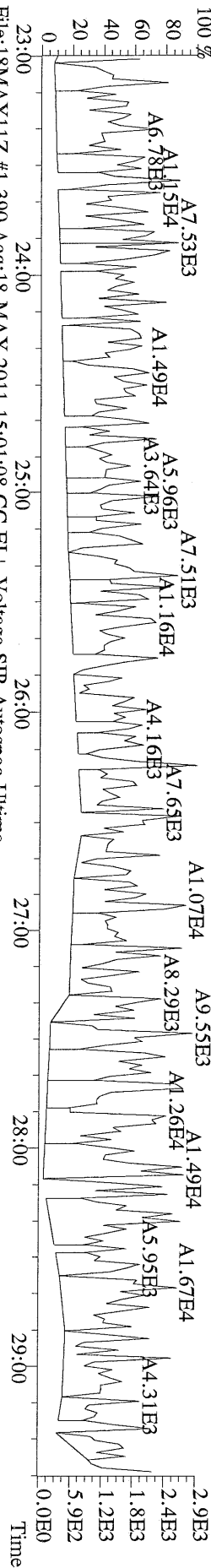
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 315.9419 S:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



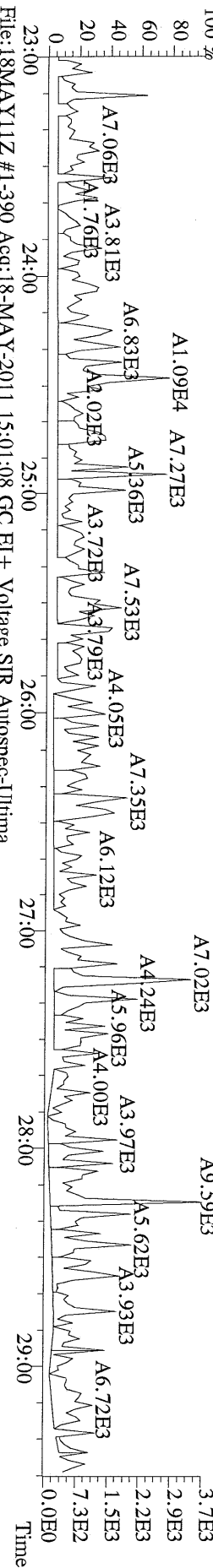
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



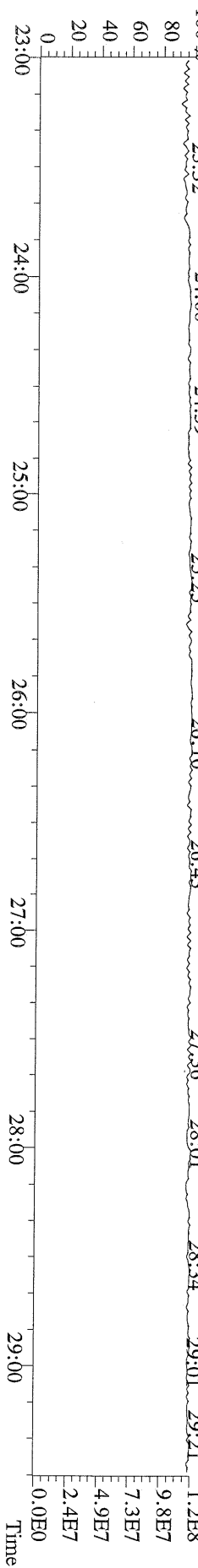
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



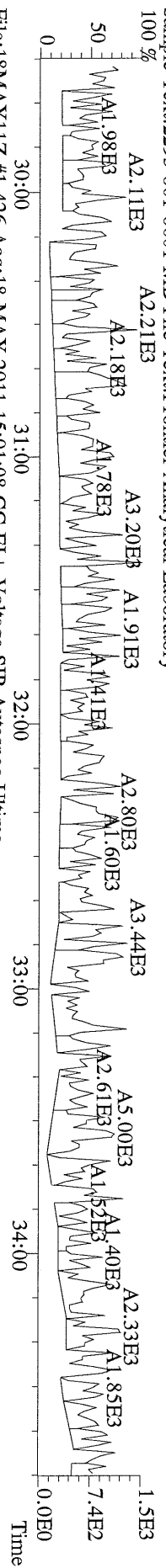
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:4 BSUB(1000,15,-3,0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



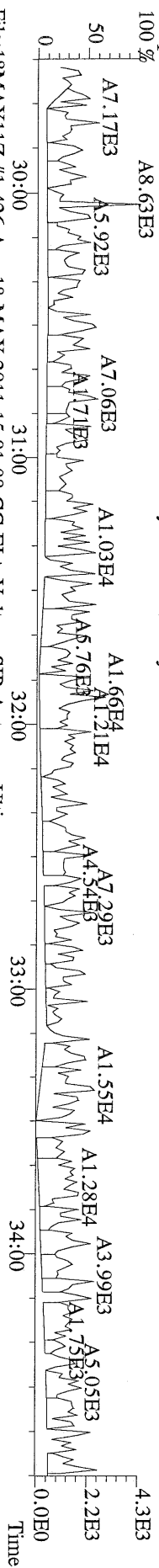
File:18MAY11Z #1-390 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 330.9792 S:4 Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



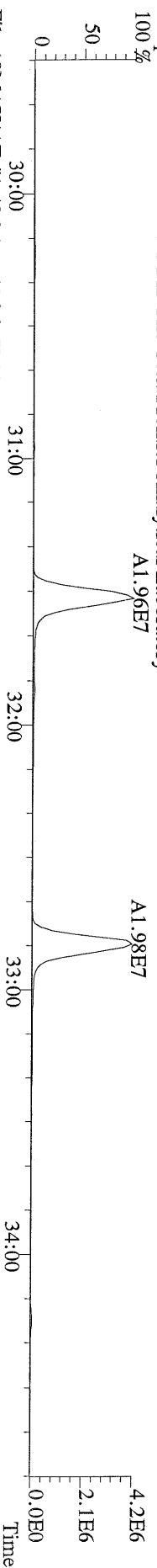
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 339.8597 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



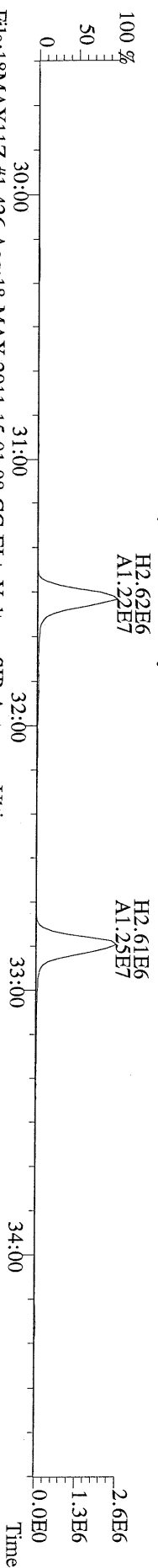
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 341.8568 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



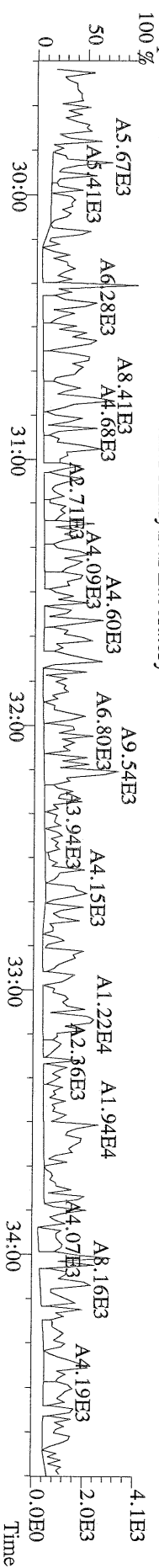
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 351.9000 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



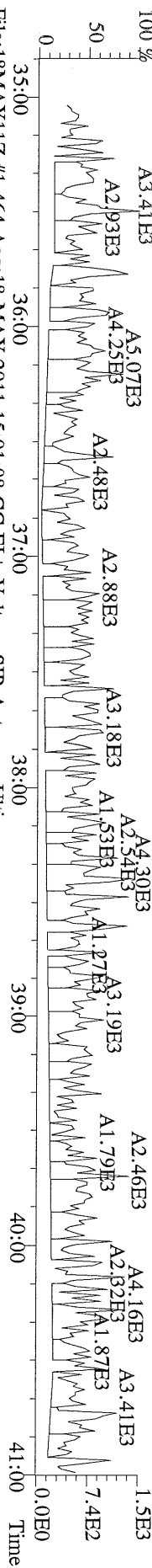
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 353.8970 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



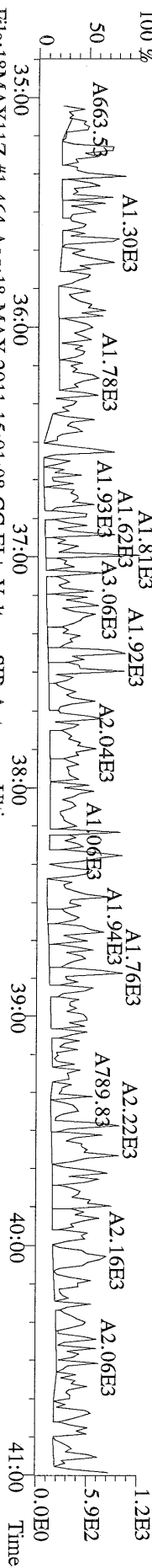
File:18MAY11Z #1-426 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
 409.7974 S:4 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



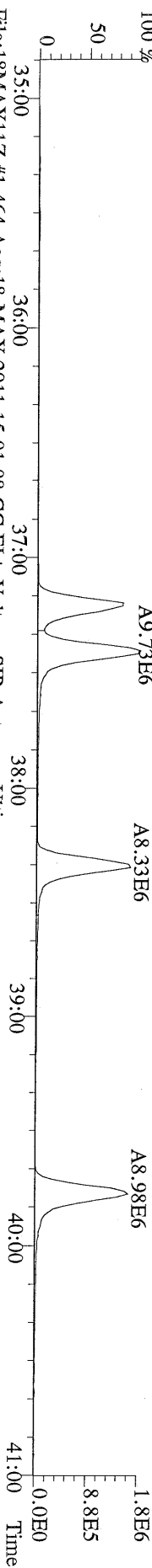
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
373.8207 S:4 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



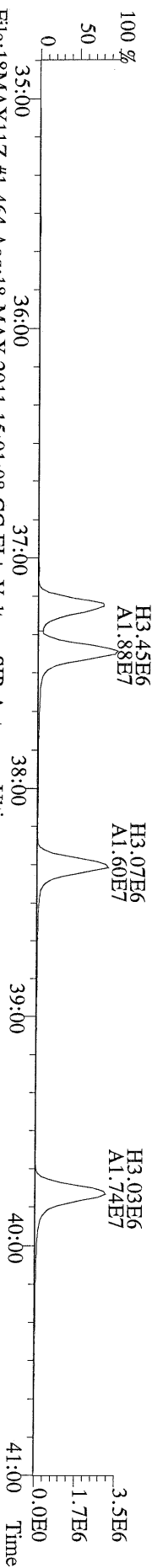
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
375.8178 S:4 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



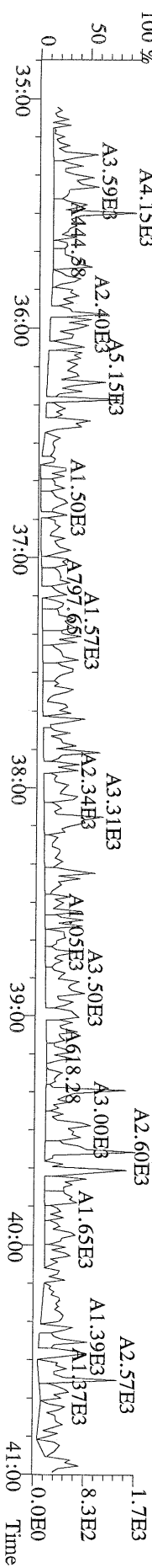
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
383.8639 S:4 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



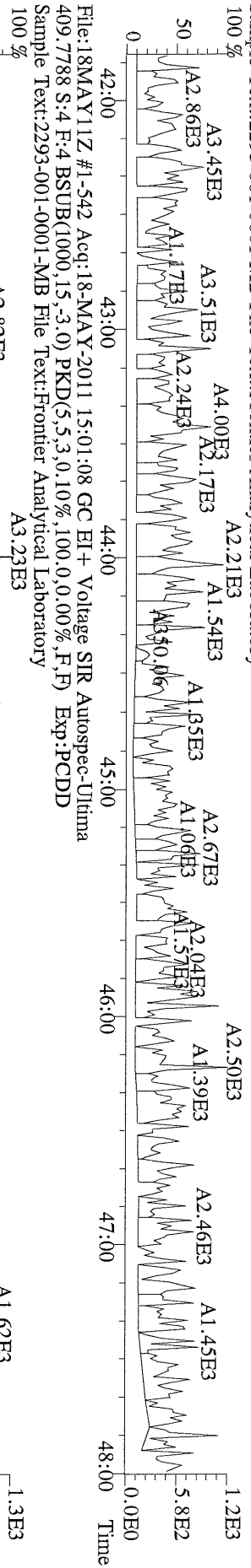
File:18MAY11Z #1-464 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
445.7555 S:4 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



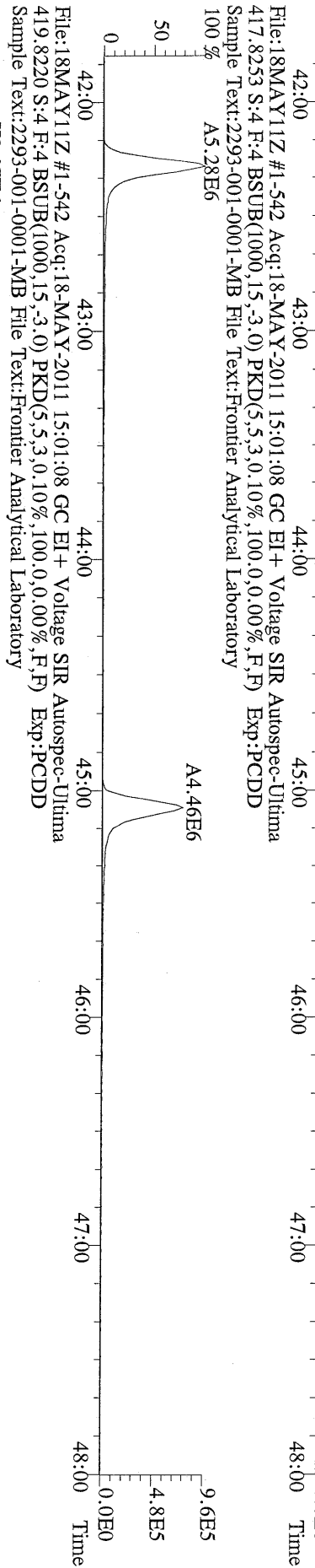
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445.7555 S:4 F:3 BSUB(1000,15,-3.0) PKD(5.5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



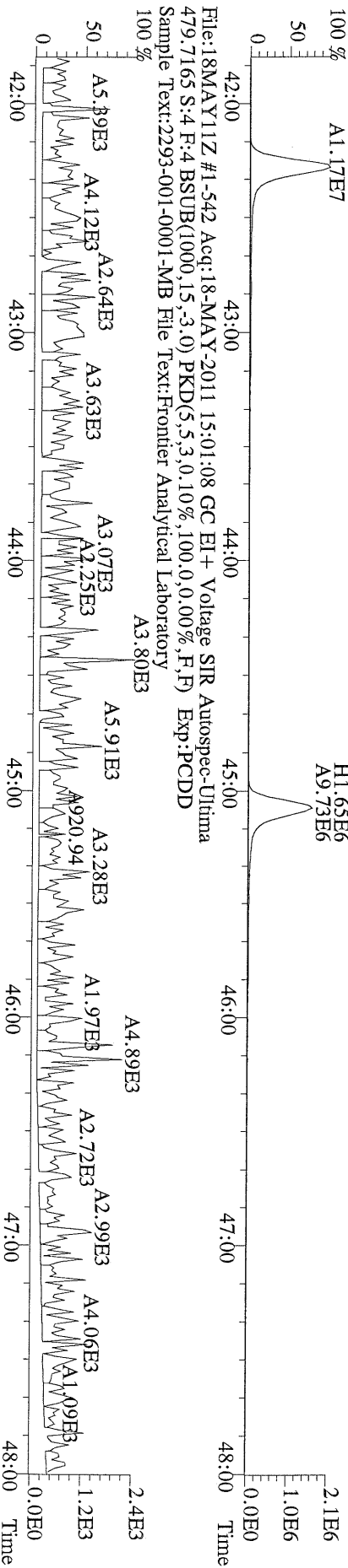
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
407.7818 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



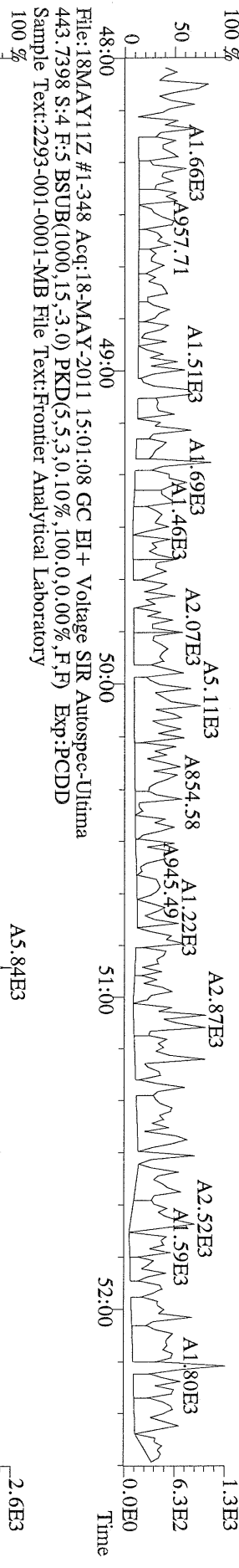
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
417.8253 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



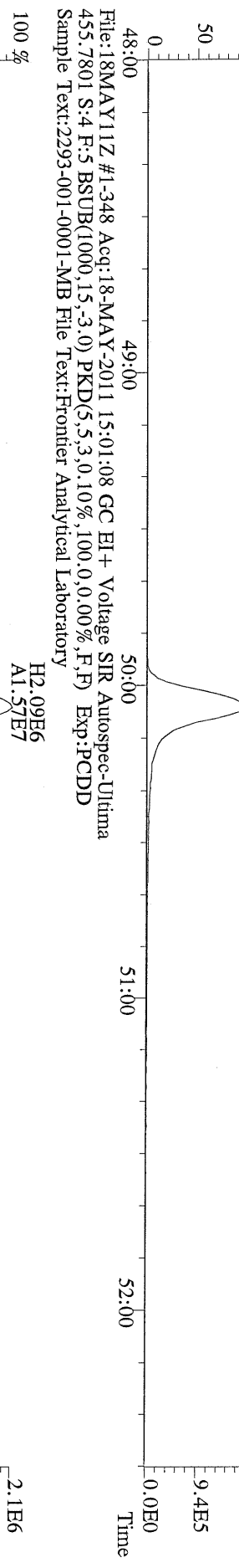
File:18MAY11Z #1-542 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
479.7165 S:4 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



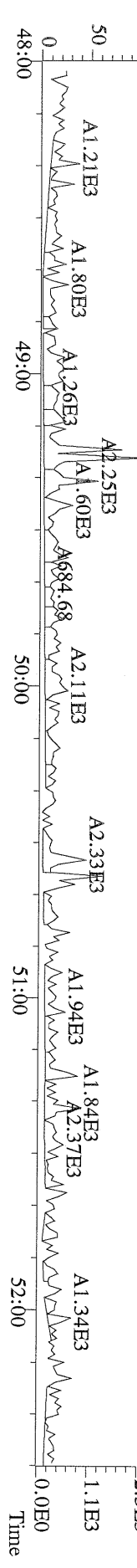
File:18MAY11Z #1-348 Acq:18-MAY-2011 15:01:08 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:4 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-MB File Text:Frontier Analytical Laboratory



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



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



USEPA - ITD


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

Lab Name: Frontier Analytical Laboratory Episode No.:
 Contract No.: SAS No.:
 Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 18MAY11Z Sam:3
 Ext. Date: 5/17/11 Shift: Day Analysis Date: 18-MAY-11 14:06:21

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

| | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | OPR CONC. LIMITS (1) (ng/mL) |
|---------------------|---------------------------|---------------------------|------------------------------------|
| NATIVE ANALYTES | | | |
| 2,3,7,8-TCDD | 10 | 10.3 | 6.70 - 15.8 |
| 1,2,3,7,8-PeCDD | 50 | 56.8 | 35.0 - 71.0 |
| 1,2,3,4,7,8-HxCDD | 50 | 56.2 | 35.0 - 82.0 |
| 1,2,3,6,7,8-HxCDD | 50 | 56.9 | 38.0 - 67.0 |
| 1,2,3,7,8,9-HxCDD | 50 | 58.0 | 32.0 - 81.0 |
| 1,2,3,4,6,7,8-HpCDD | 50 | 58.8 | 35.0 - 70.0 |
| OCDD | 100 | 111 | 78.0 - 144 |
| 2,3,7,8-TCDF | 10 | 10.7 | 7.50 - 15.8 |
| 1,2,3,7,8-PeCDF | 50 | 57.4 | 40.0 - 67.0 |
| 2,3,4,7,8-PeCDF | 50 | 57.2 | 34.0 - 80.0 |
| 1,2,3,4,7,8-HxCDF | 50 | 56.1 | 36.0 - 67.0 |
| 1,2,3,6,7,8-HxCDF | 50 | 56.9 | 42.0 - 65.0 |
| 2,3,4,6,7,8-HxCDF | 50 | 57.7 | 35.0 - 78.0 |
| 1,2,3,7,8,9-HxCDF | 50 | 58.1 | 39.0 - 65.0 |
| 1,2,3,4,6,7,8-HpCDF | 50 | 56.8 | 41.0 - 61.0 |
| 1,2,3,4,7,8,9-HpCDF | 50 | 56.2 | 39.0 - 69.0 |
| OCDF | 100 | 119 | 63.0 - 170 |

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613

Analyst: 

Date: 5/19/11

USEPA - ITD

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

Lab Name: Frontier Analytical Laboratory Episode No.:

Contract No.: SAS No.:

Matrix (aqueous/solid/leachate): Aqueous OPR Data Filename: 18MAY11Z Sam:3

Ext. Date: 5/17/11 Shift: Day Analysis Date: 18-MAY-11 14:06:21

ALL CONCENTRATIONS REPORTED ON THIS FORM ARE CONCENTRATIONS IN EXTRACT.

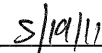
| | SPIKE CONC. (ng/mL) | CONC. FOUND (ng/mL) | OPR CONC. LIMITS (1) (ng/mL) |
|-------------------------|---------------------------|---------------------------|------------------------------------|
| LABELED COMPOUNDS | | | |
| 13C-2,3,7,8-TCDD | 100 | 95.7 | 20.0 - 175 |
| 13C-1,2,3,7,8-PeCDD | 100 | 80.4 | 21.0 - 227 |
| 13C-1,2,3,4,7,8-HxCDD | 100 | 84.0 | 21.0 - 193 |
| 13C-1,2,3,6,7,8-HxCDD | 100 | 78.7 | 25.0 - 163 |
| 13C-1,2,3,4,6,7,8-HpCDD | 100 | 76.6 | 26.0 - 166 |
| 13C-OCDD | 200 | 162 | 26.0 - 397 |
| 13C-2,3,7,8-TCDF | 100 | 96.9 | 22.0 - 152 |
| 13C-1,2,3,7,8-PeCDF | 100 | 84.6 | 21.0 - 192 |
| 13C-2,3,4,7,8-PeCDF | 100 | 88.1 | 13.0 - 328 |
| 13C-1,2,3,4,7,8-HxCDF | 100 | 88.1 | 19.0 - 202 |
| 13C-1,2,3,6,7,8-HxCDF | 100 | 86.4 | 21.0 - 159 |
| 13C-2,3,4,6,7,8-HxCDF | 100 | 88.8 | 22.0 - 176 |
| 13C-1,2,3,7,8,9-HxCDF | 100 | 84.1 | 17.0 - 205 |
| 13C-1,2,3,4,6,7,8-HpCDF | 100 | 81.4 | 21.0 - 158 |
| 13C-1,2,3,4,7,8,9-HpCDF | 100 | 81.0 | 20.0 - 186 |
| 13C-OCDF | 200 | 156 | 26.0 - 397 |
| CLEANUP STANDARD | | | |
| 37Cl-2,3,7,8-TCDD | 40 | 40.1 | 12.4 - 76.4 |

(1) Contract-required concentration limits for OPR as specified in Table 6, Method 1613
Labeled compound concentration limits are based on required percent recovery of 25%-150%.

Analyst: _____



Date: _____



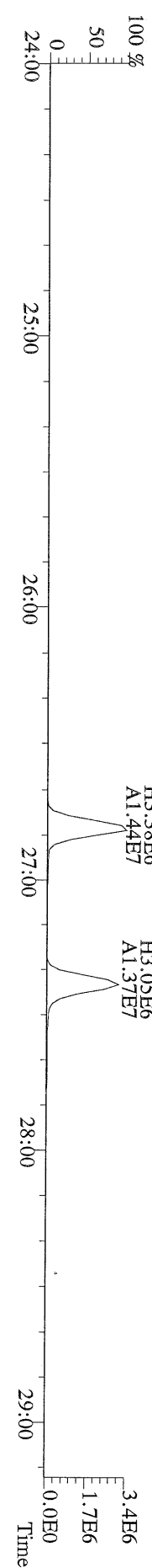
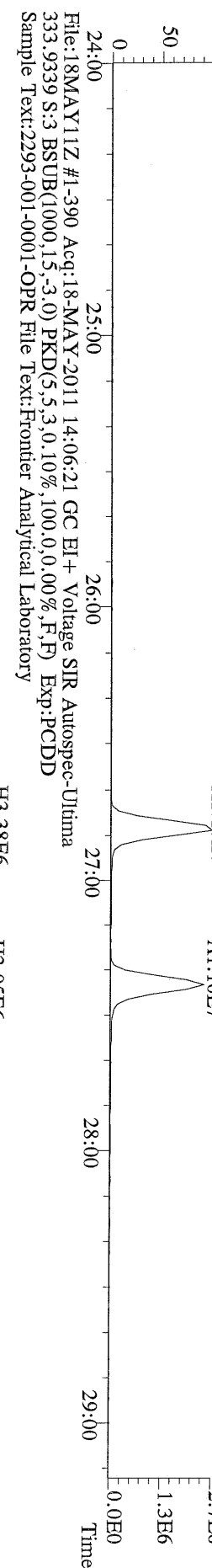
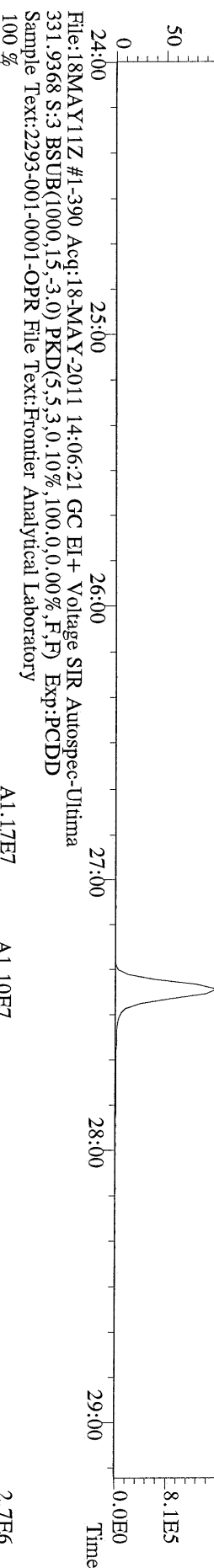
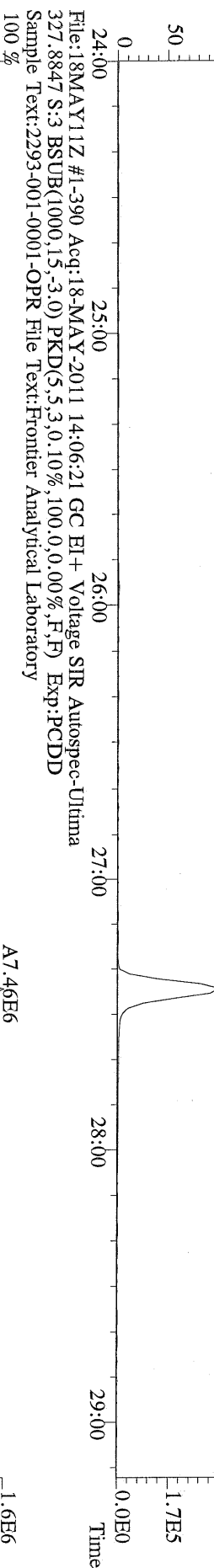
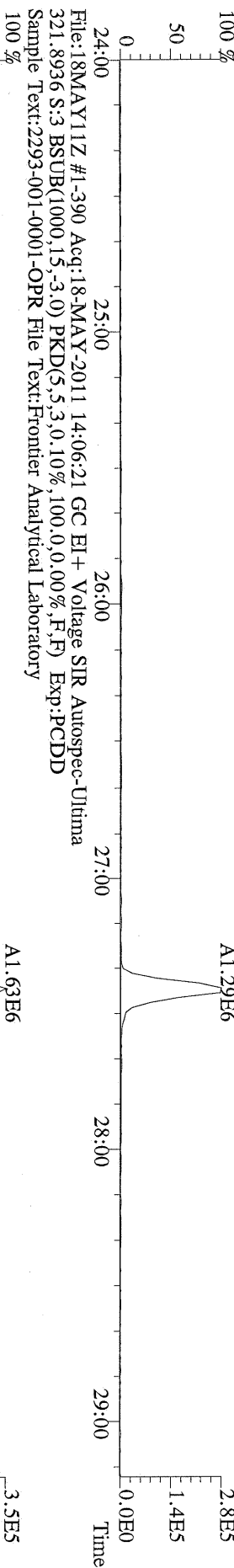
Results: GC Column: DB5 Amount: 1.000 NATO 1989 Tox: 113 WHO 1998 Tox: 141 WHO 2005 Tox: 129

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

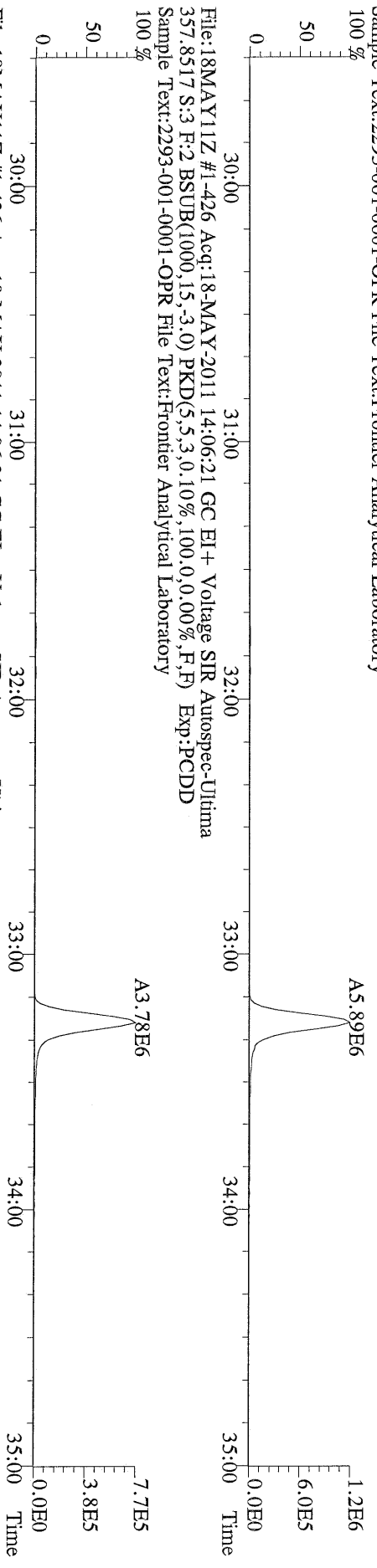
Analyst: J

Date: 5/19/11

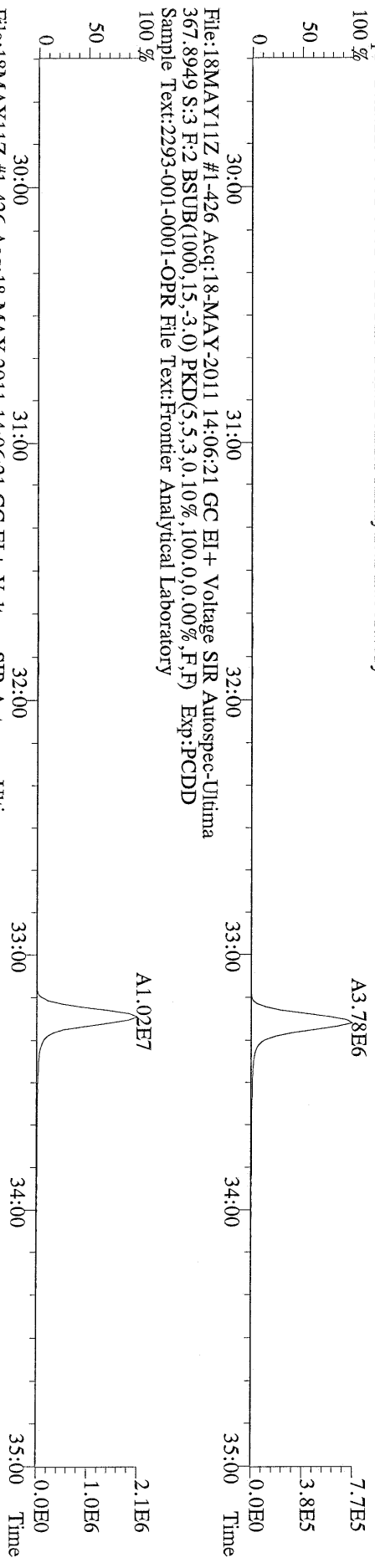
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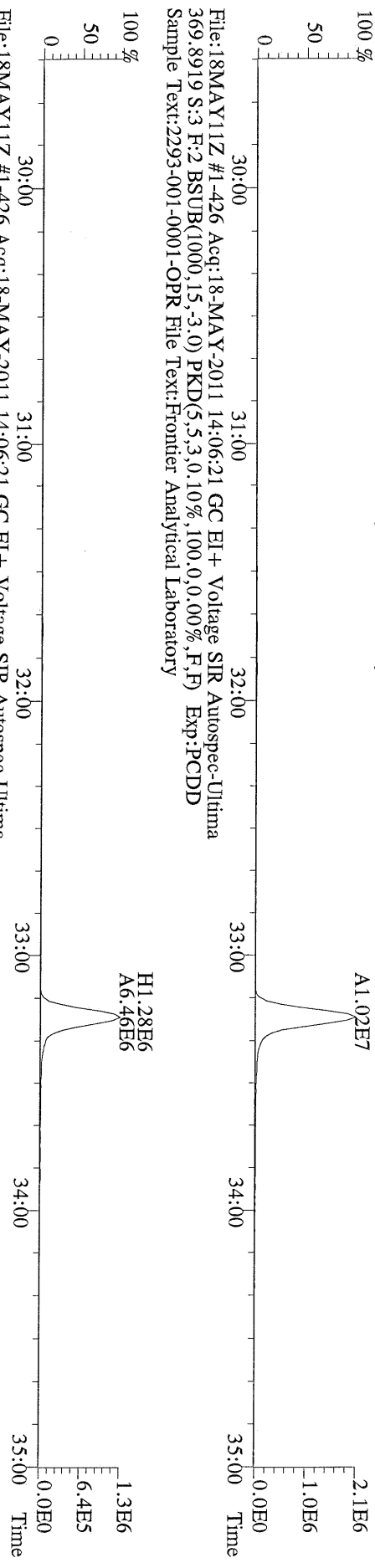
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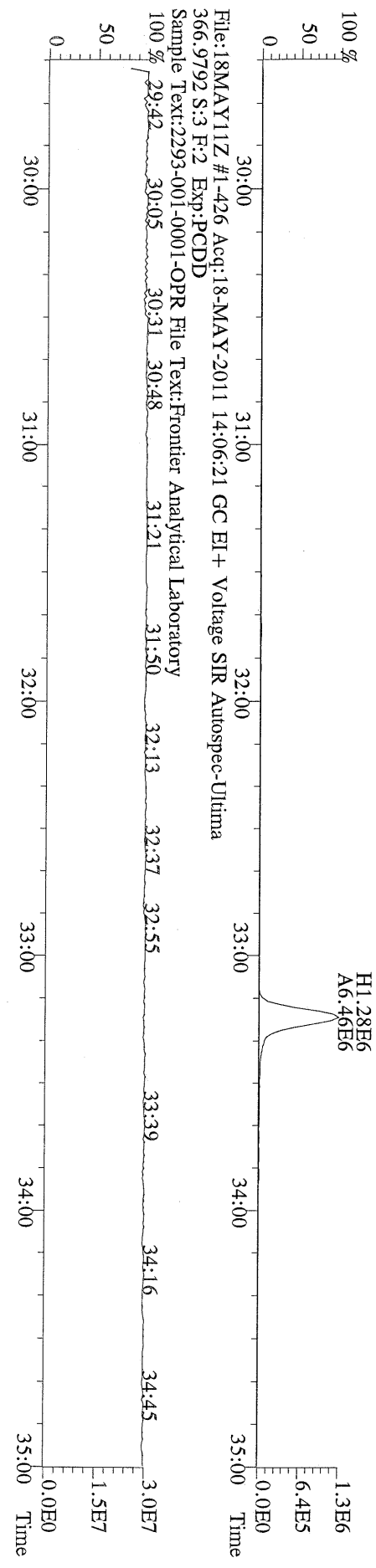
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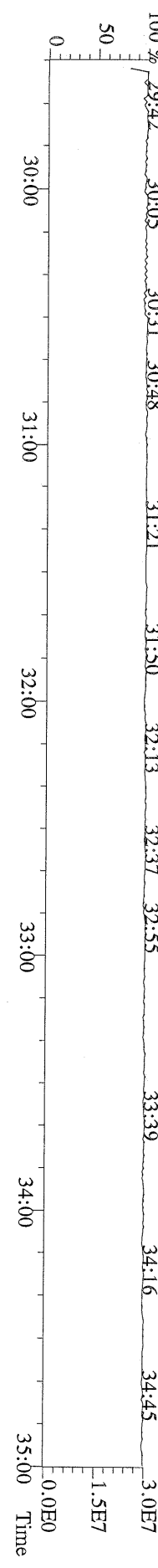
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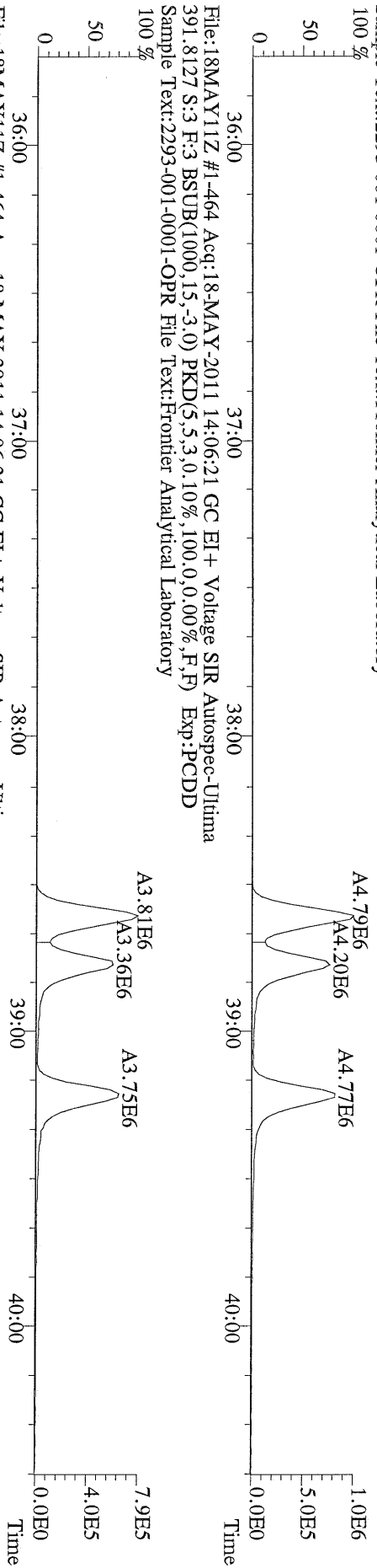
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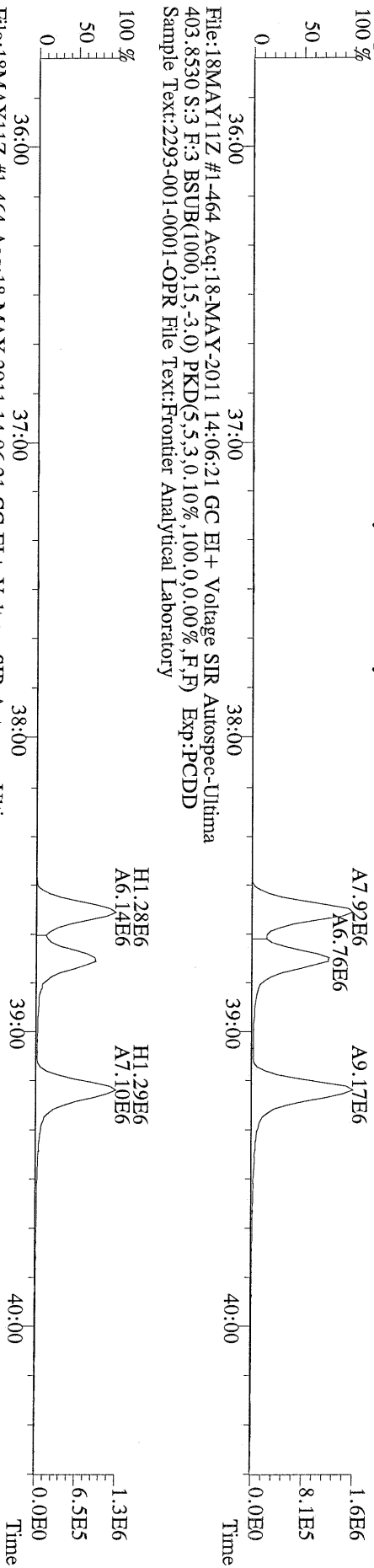
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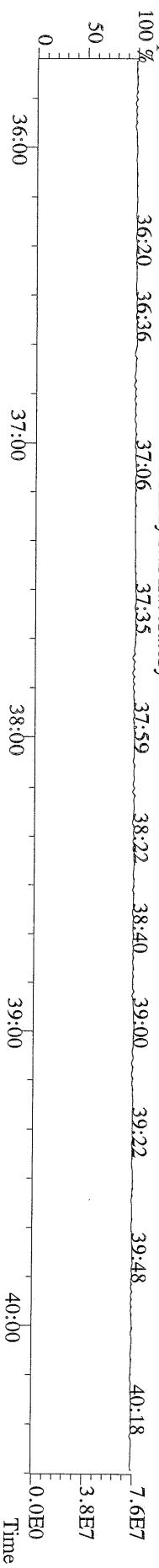
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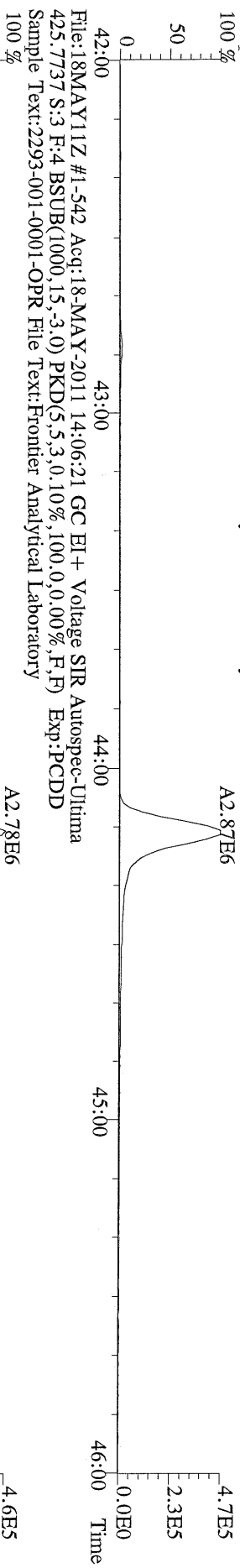
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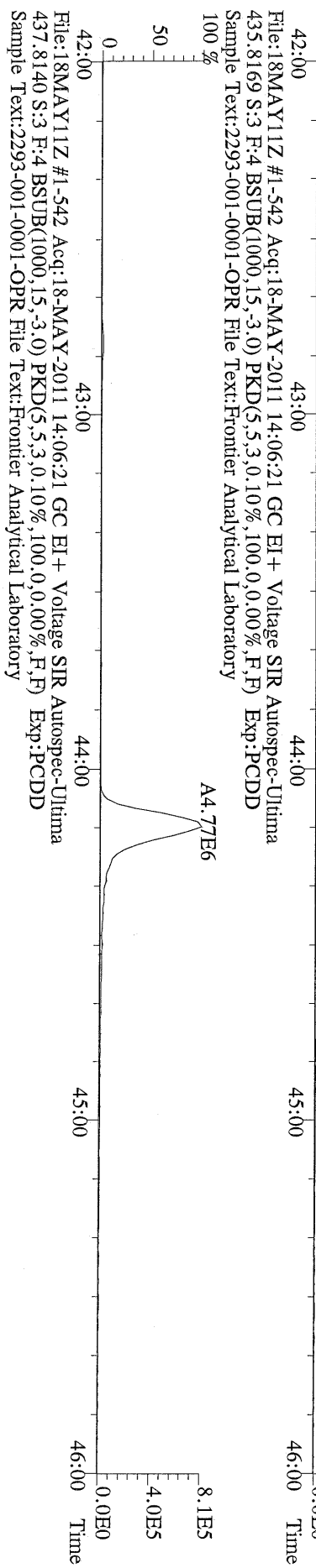
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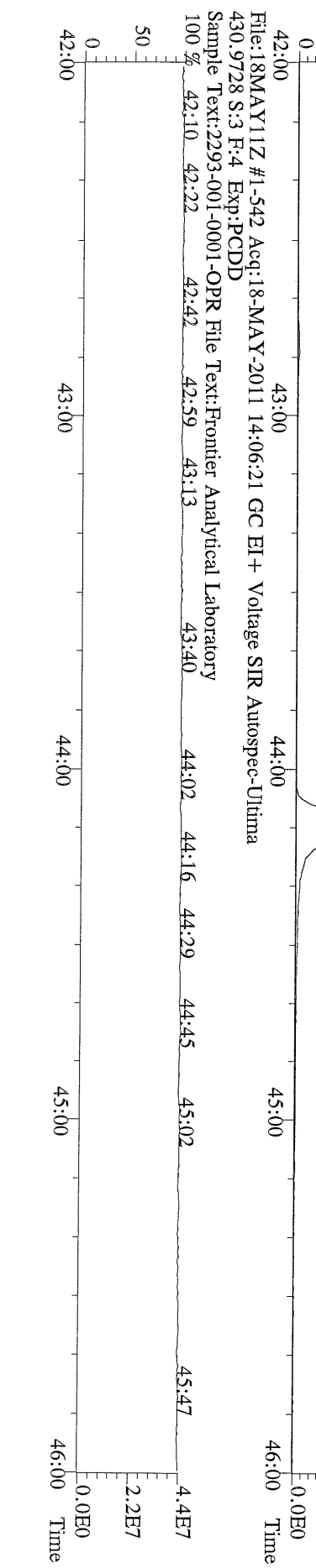
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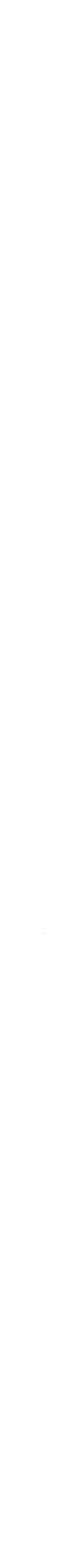
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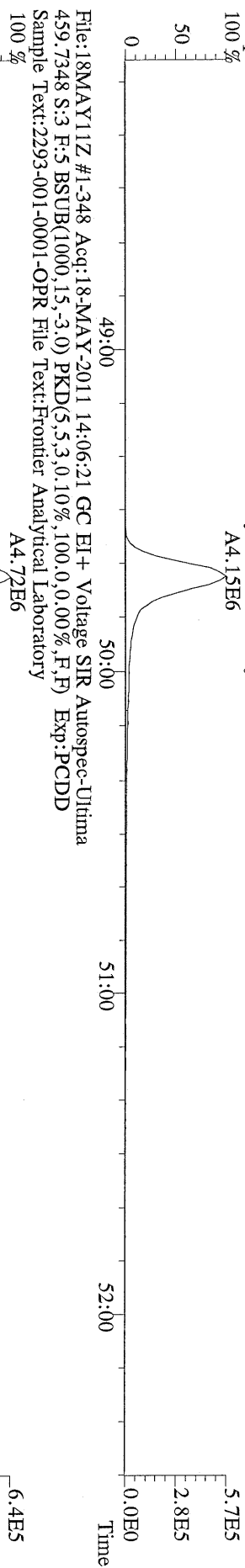
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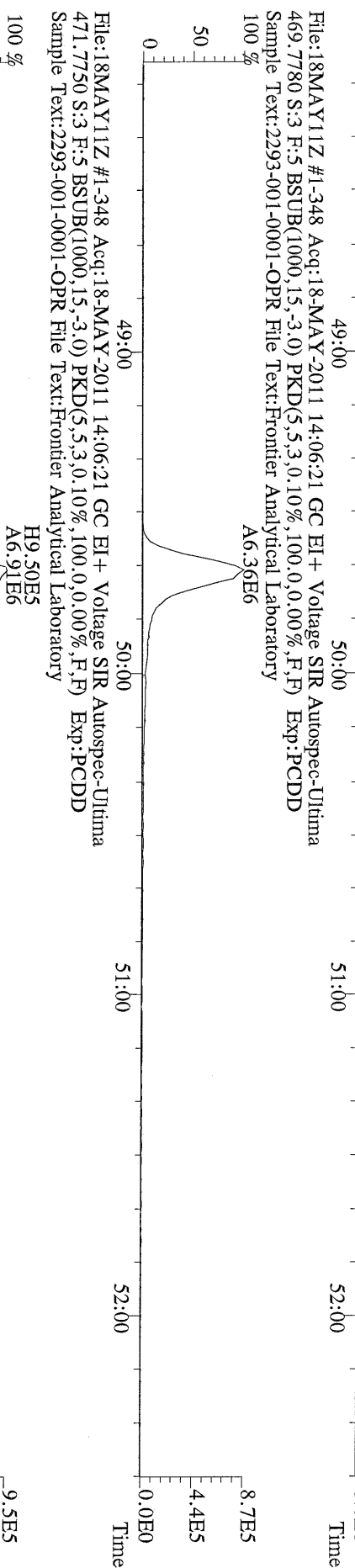
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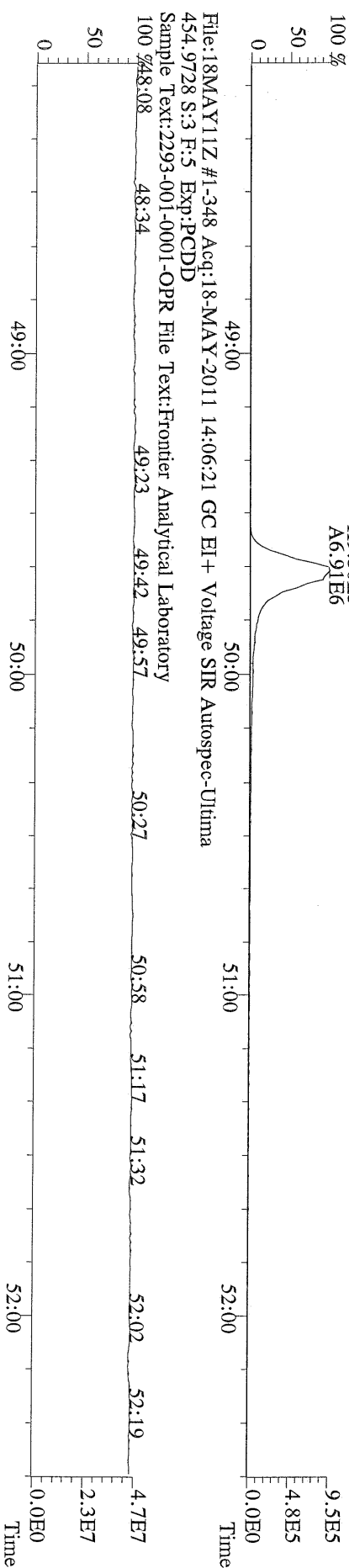
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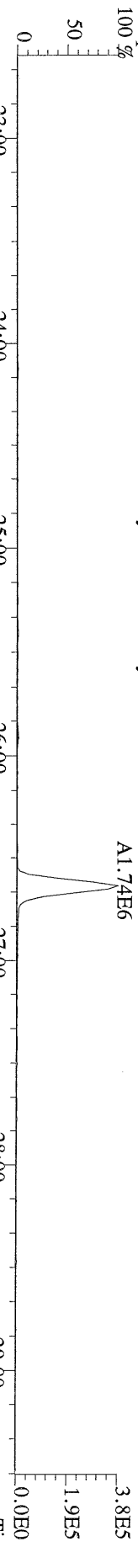
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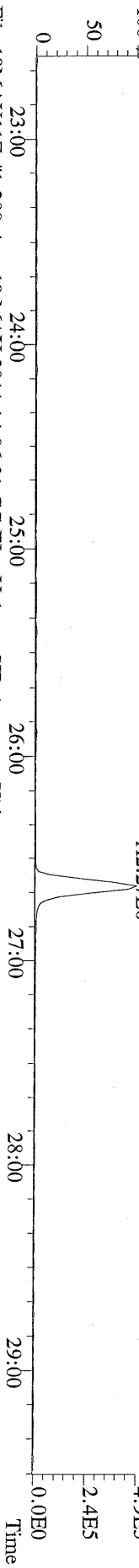
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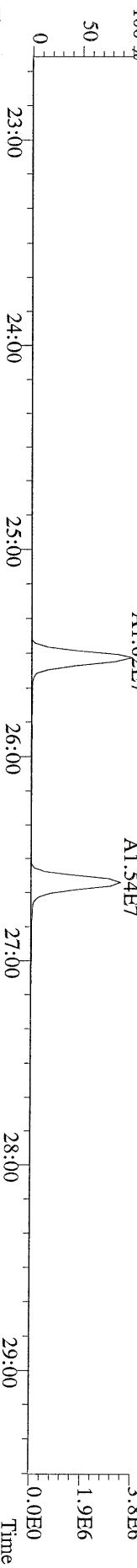
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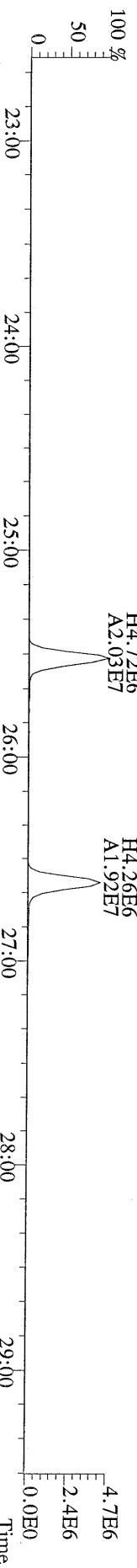
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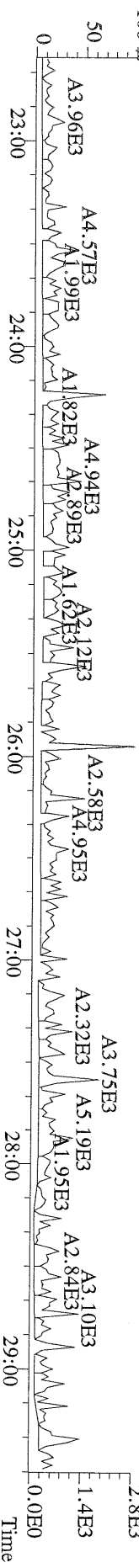
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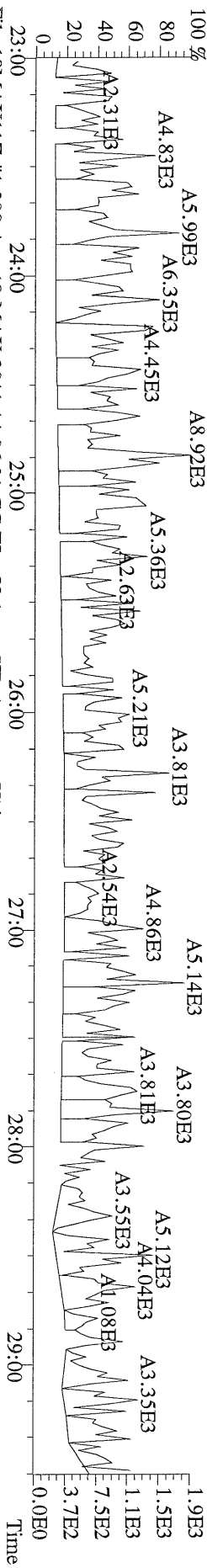
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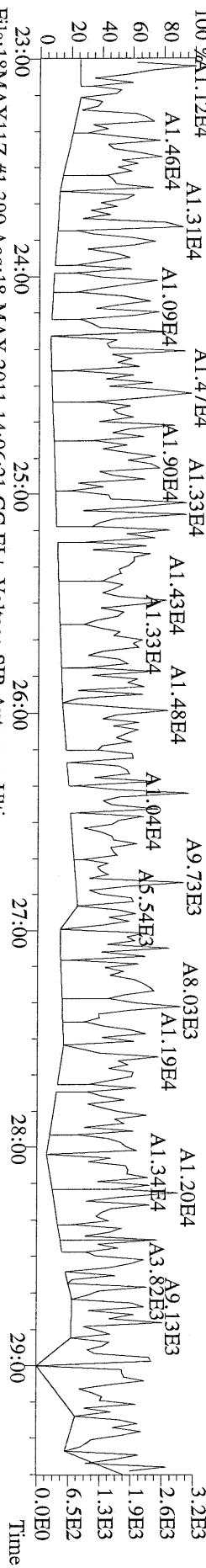
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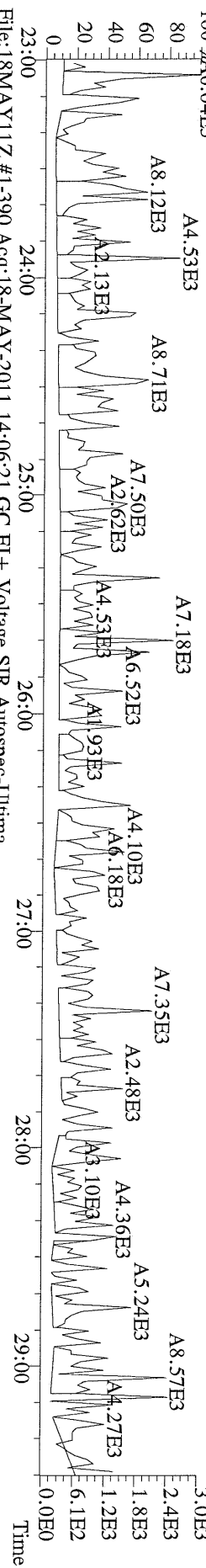
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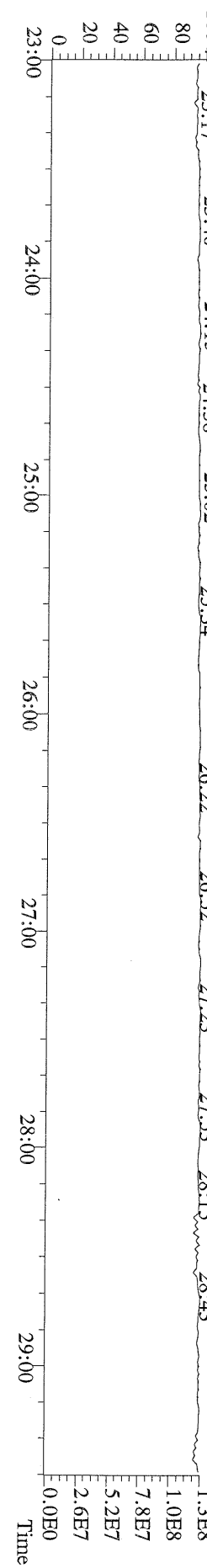
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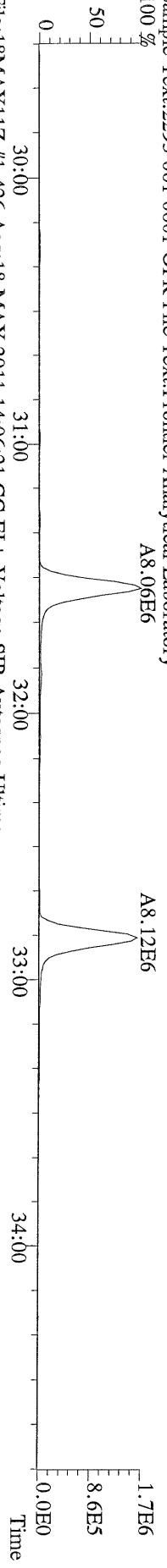
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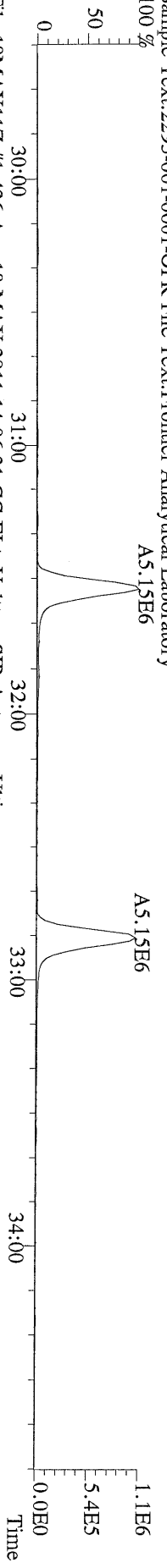
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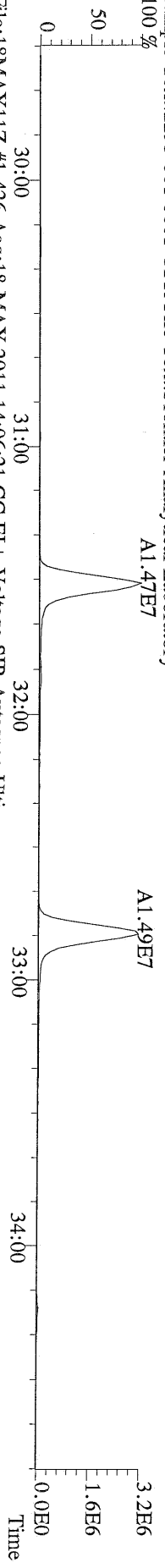
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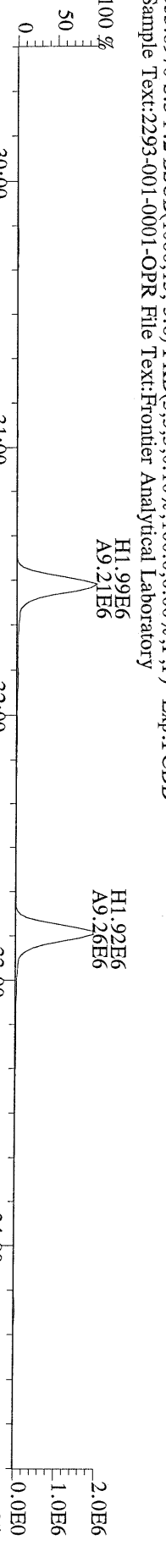
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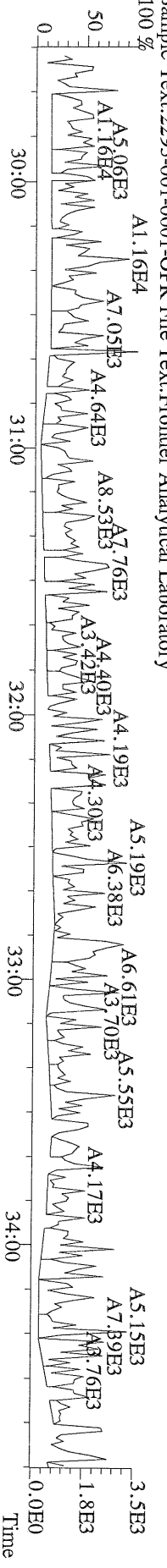
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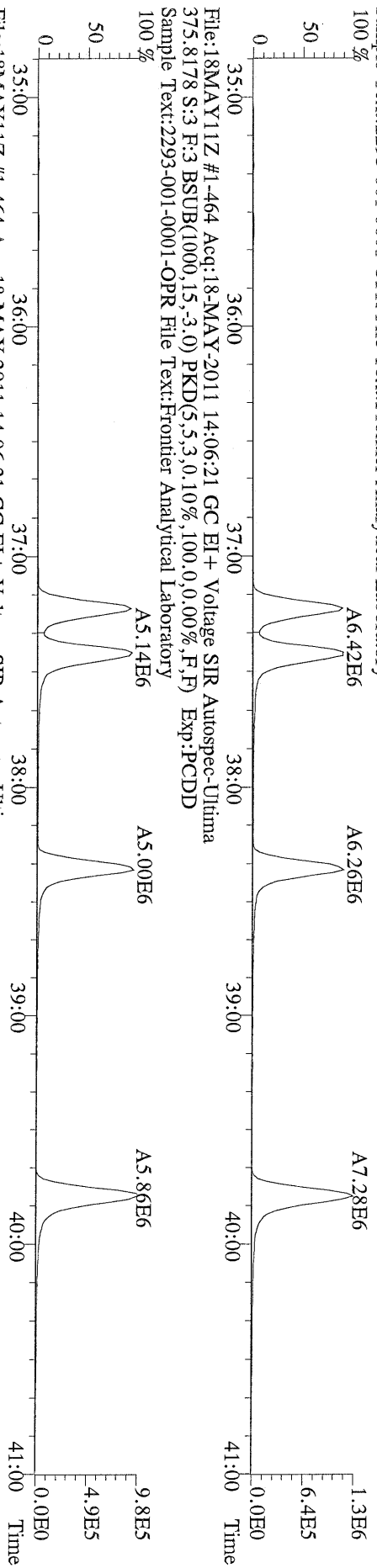
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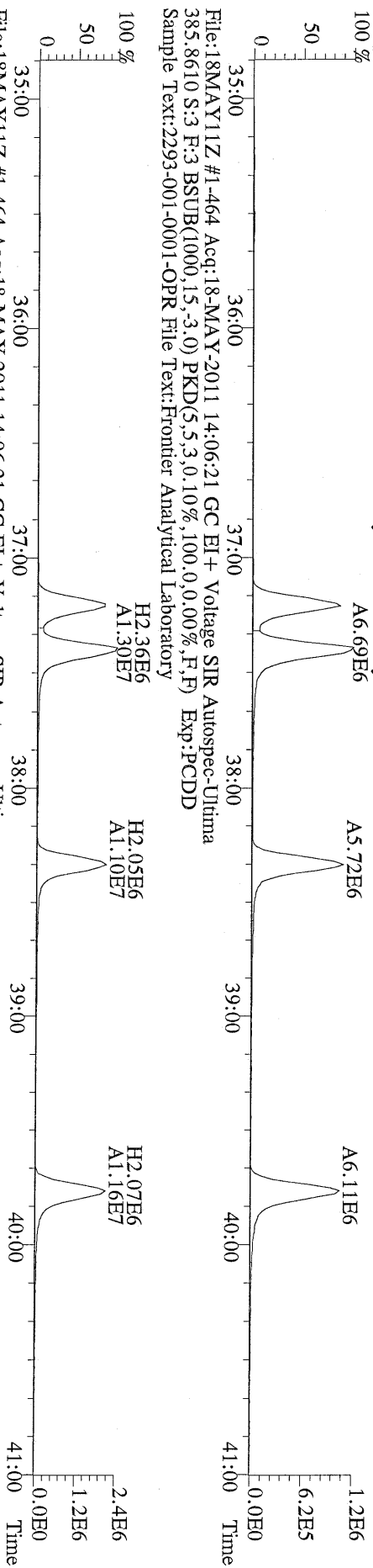
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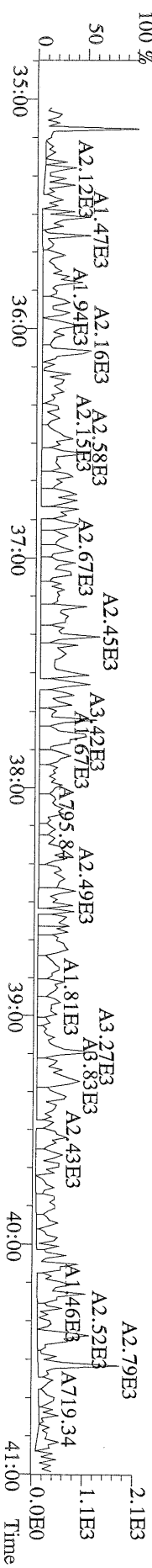
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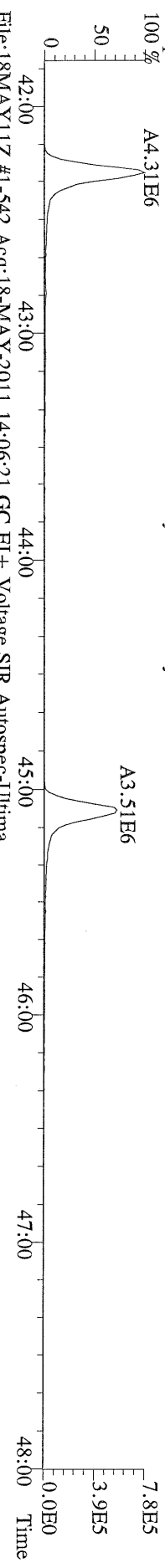
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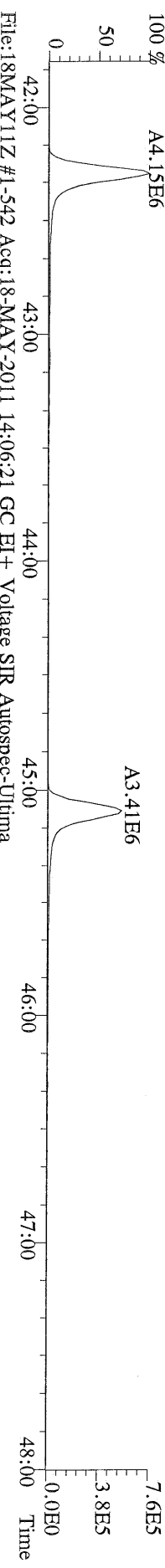
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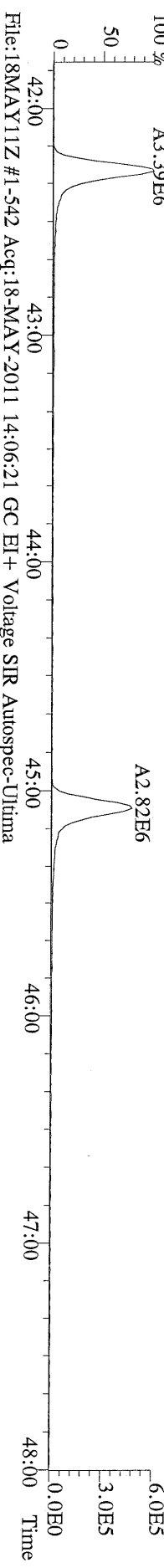
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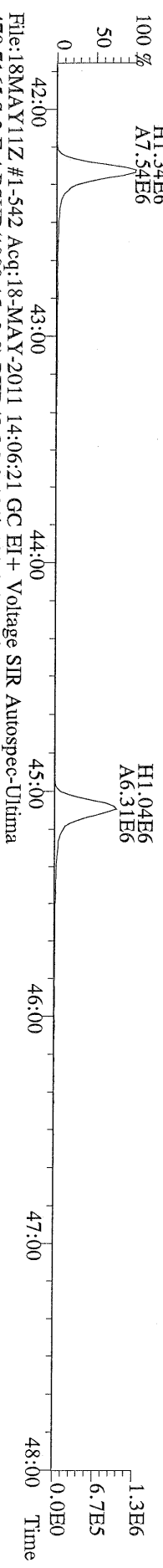
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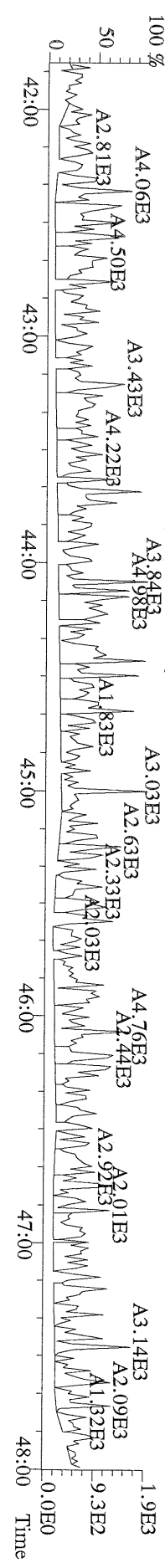
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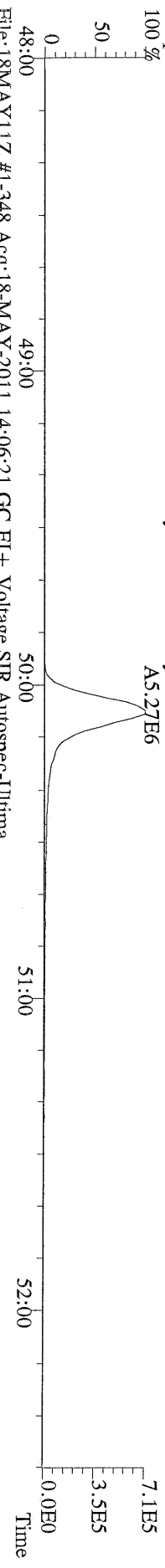
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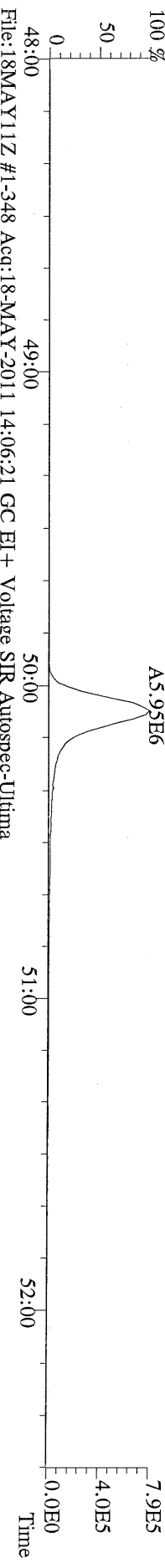
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100 %



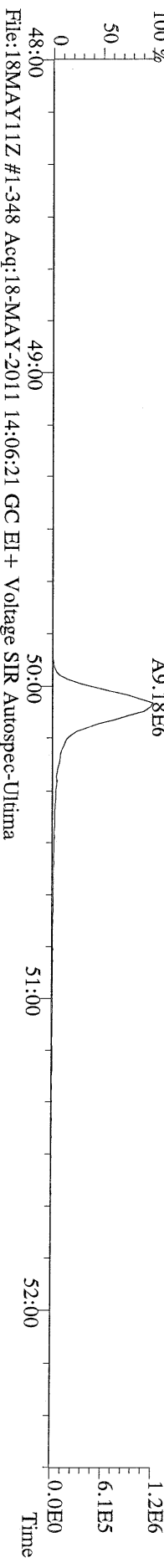
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441.7428 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



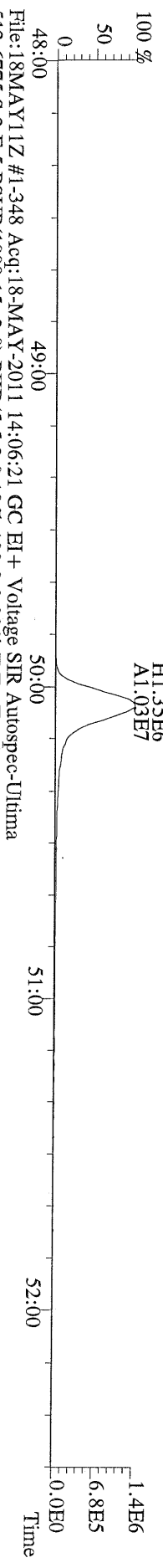
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443.7398 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



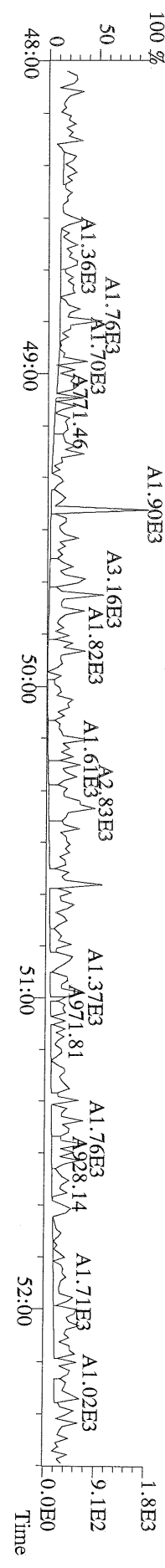
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453.7831 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



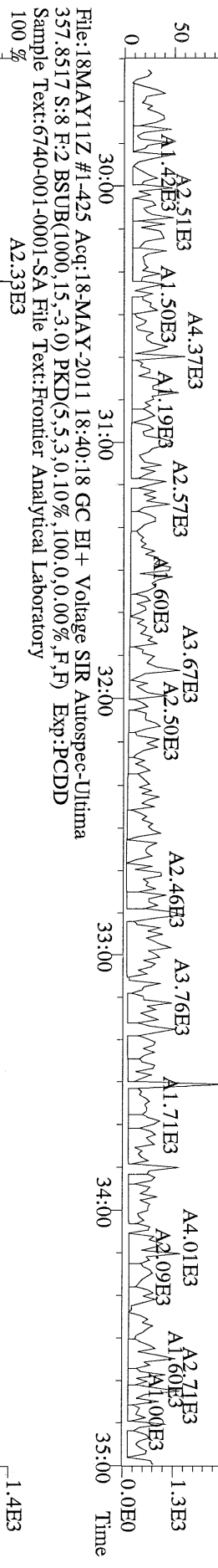
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Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



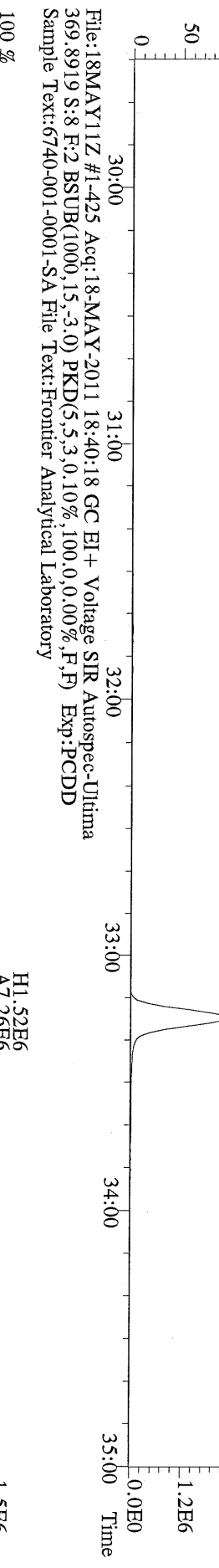
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513.6775 S:3 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:2293-001-0001-OPR File Text:Frontier Analytical Laboratory



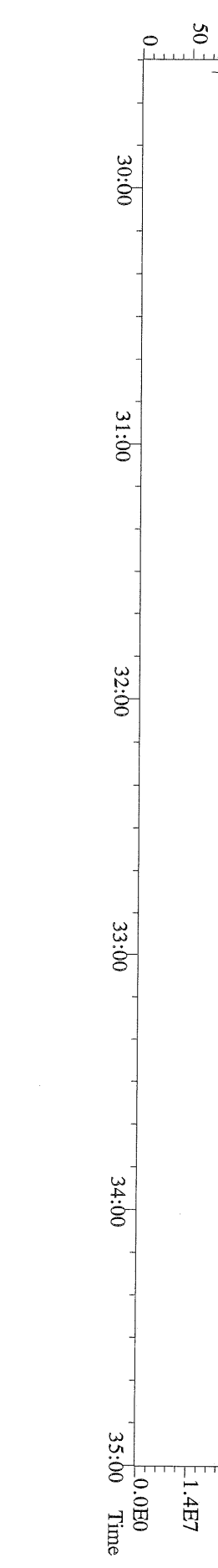
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 355.8546 S:8 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



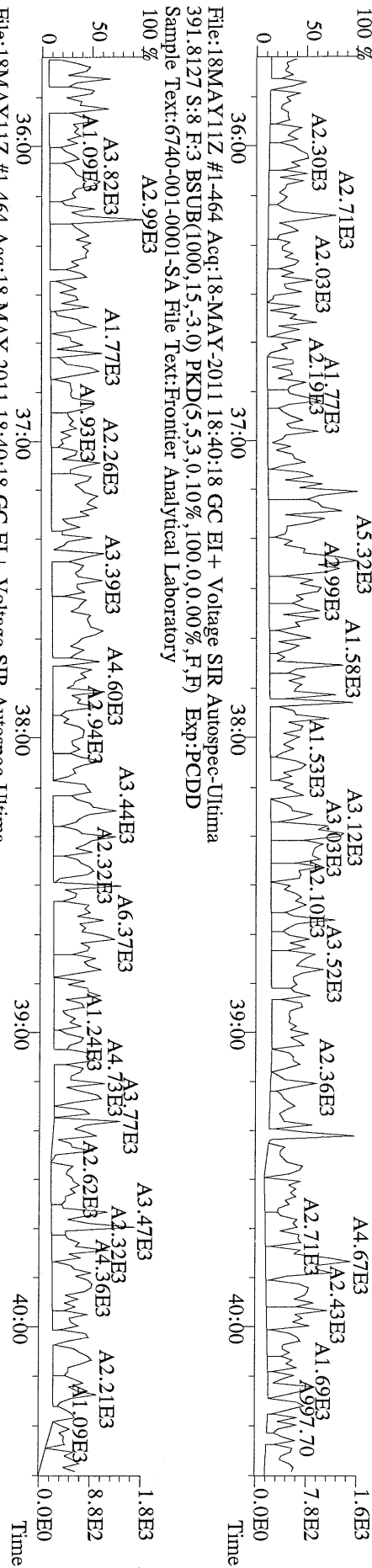
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 367.8949 S:8 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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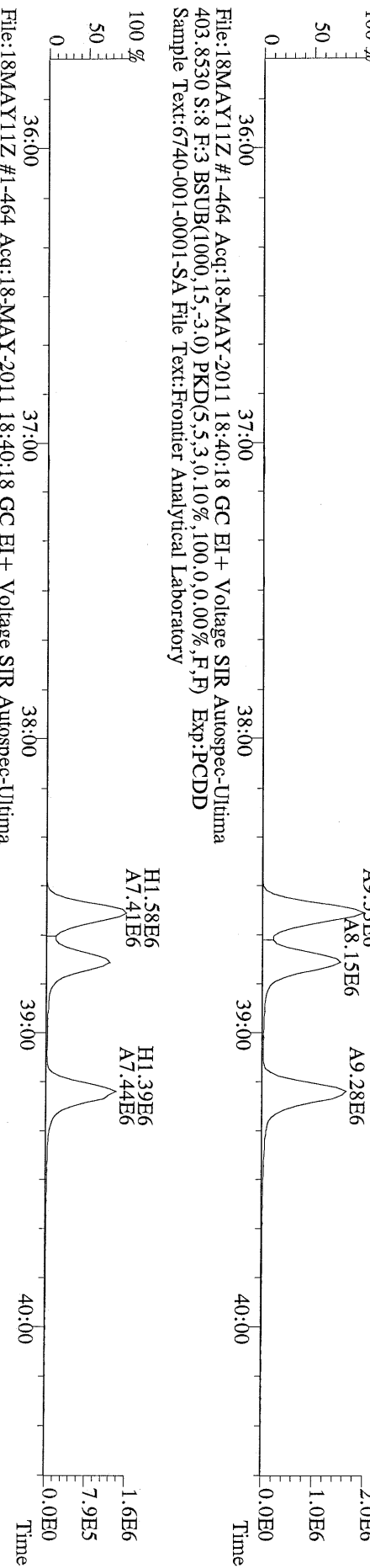
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 366.9792 S:8 F:2 Exp:PCDD
 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



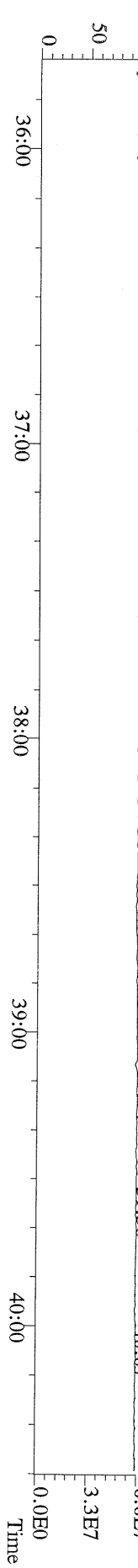
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 389.8156 S:8 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



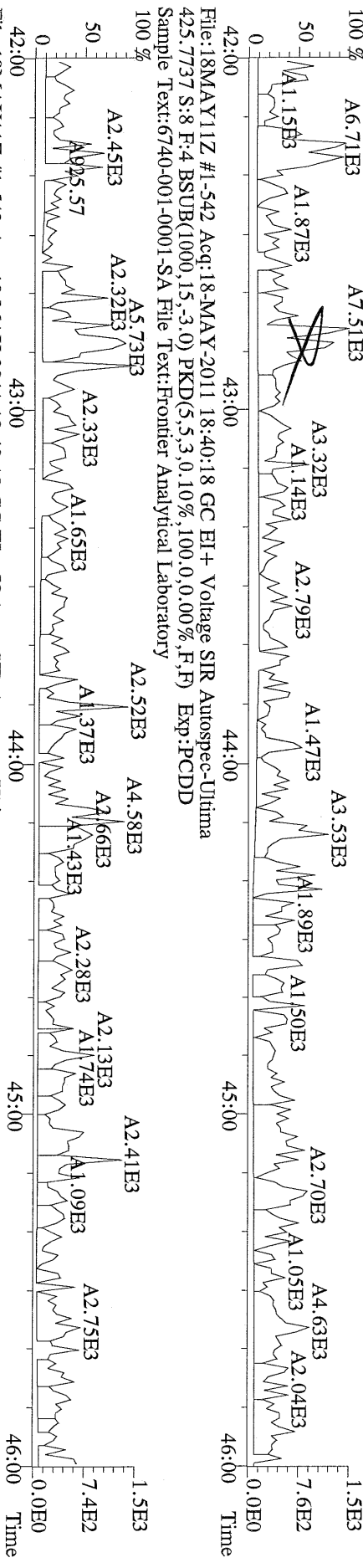
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 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



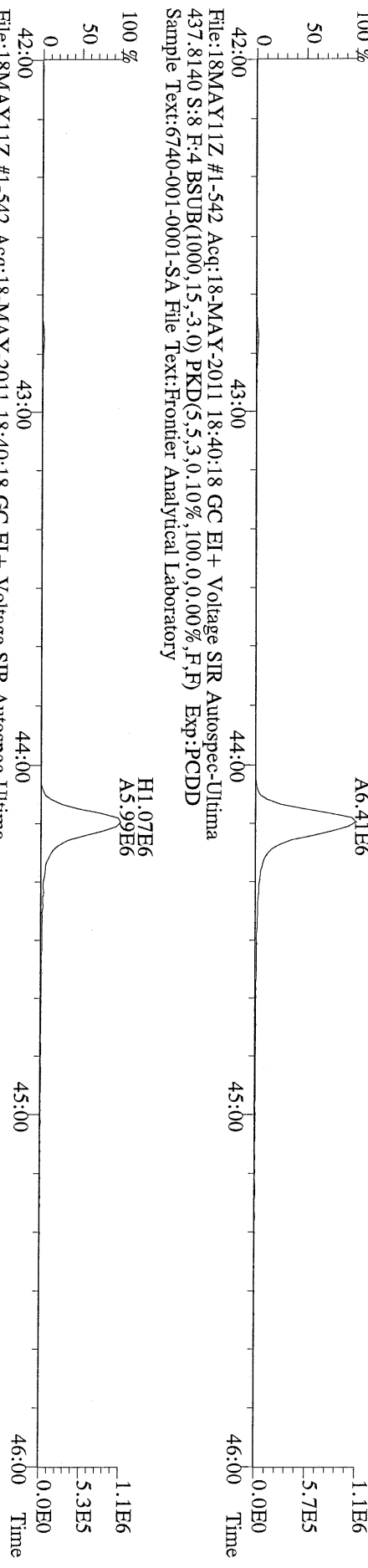
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 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



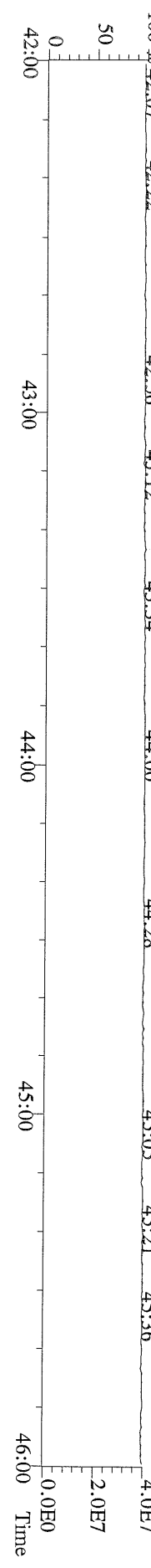
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423.7767 S:8 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



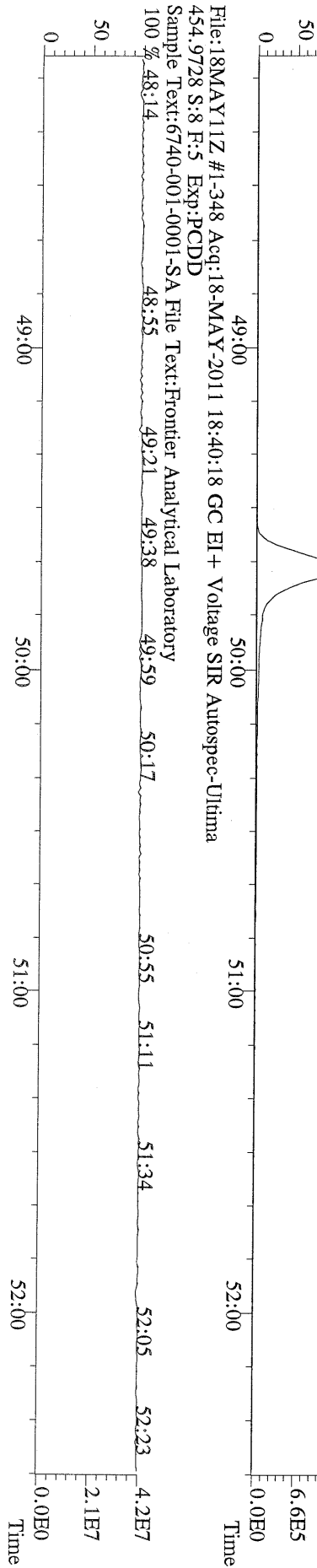
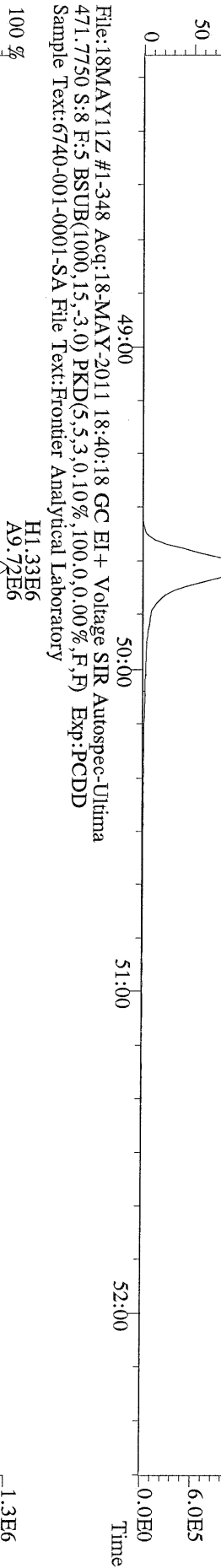
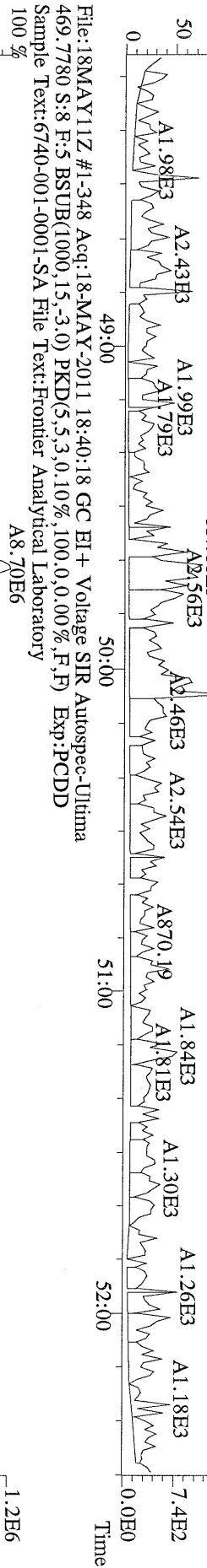
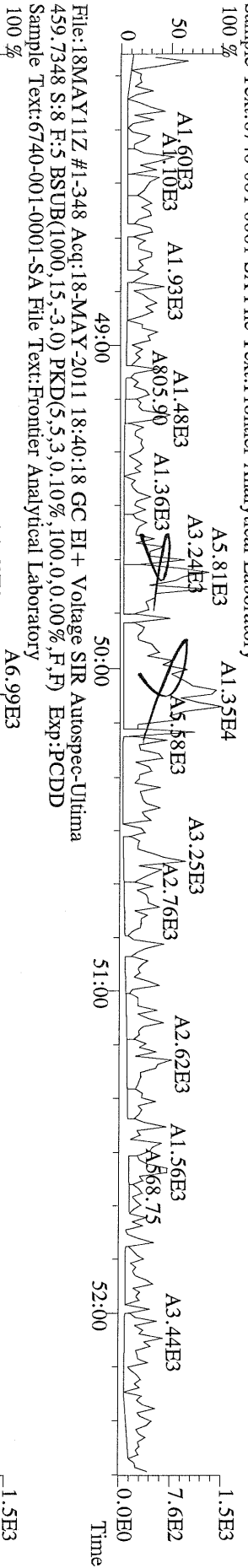
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435.8169 S:8 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



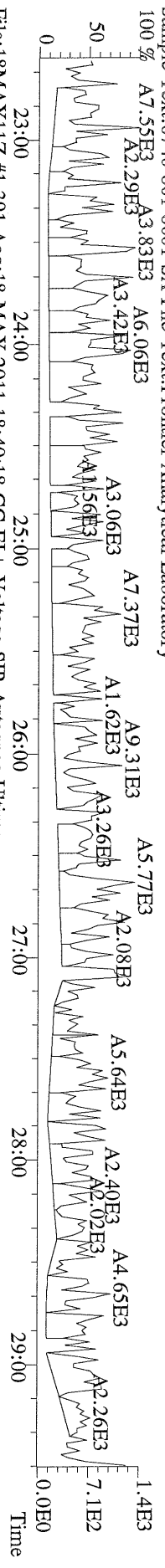
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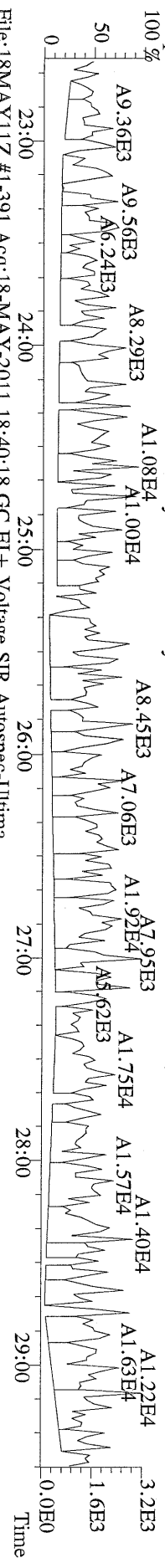
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 457.7377 S:8 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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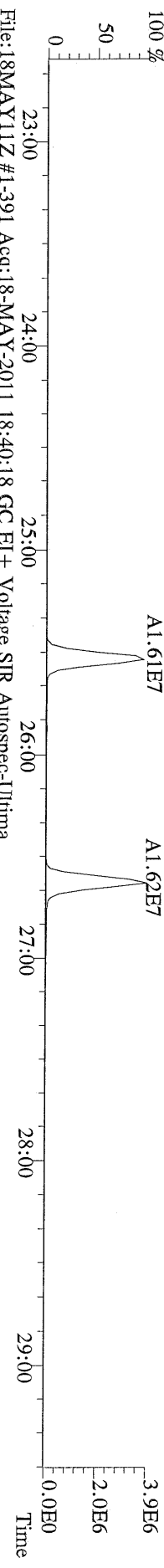
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 303.9016 S:8 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



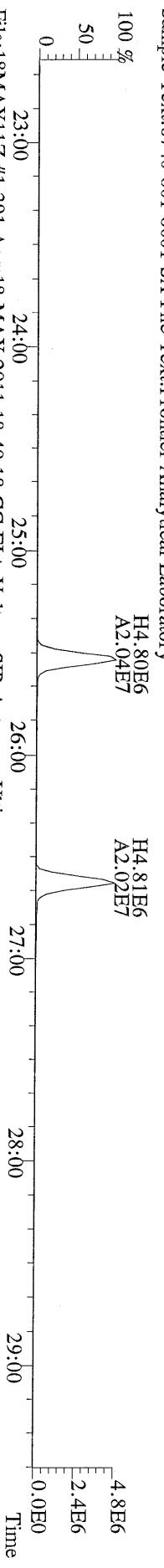
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 305.8987 S:8 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



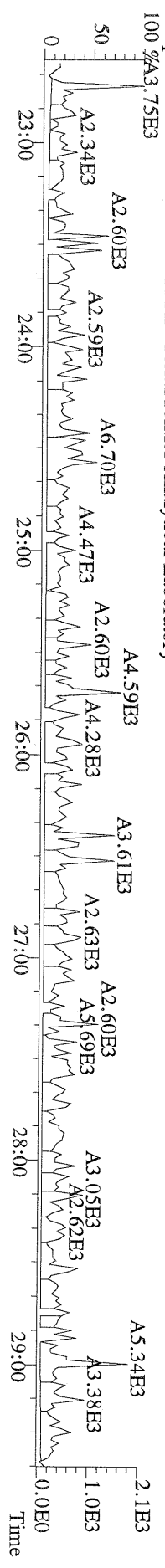
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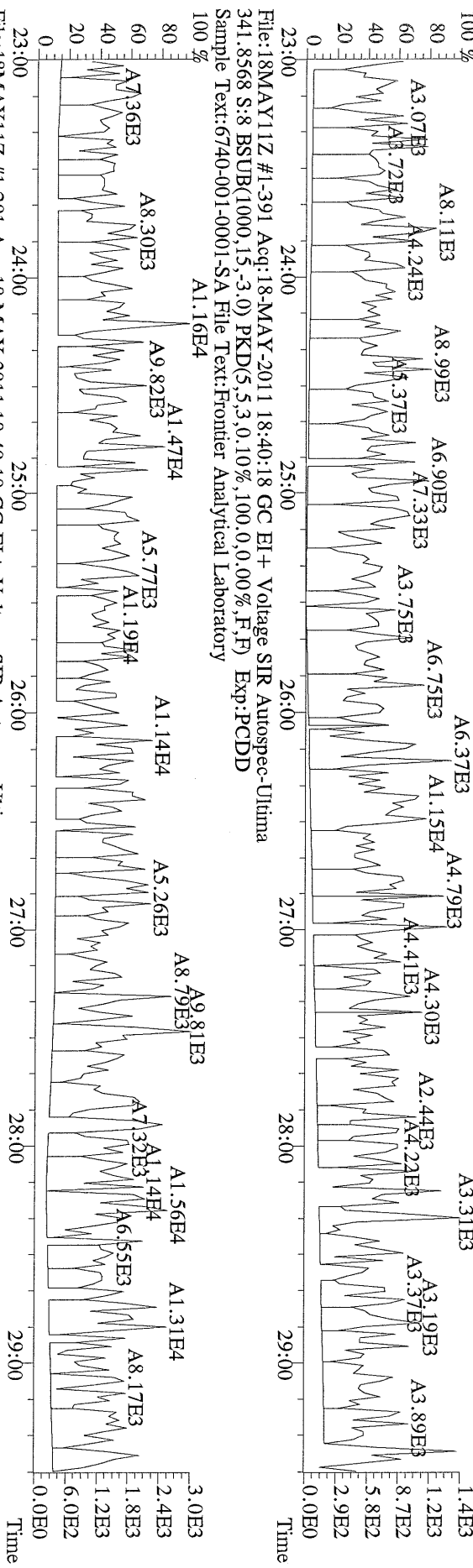
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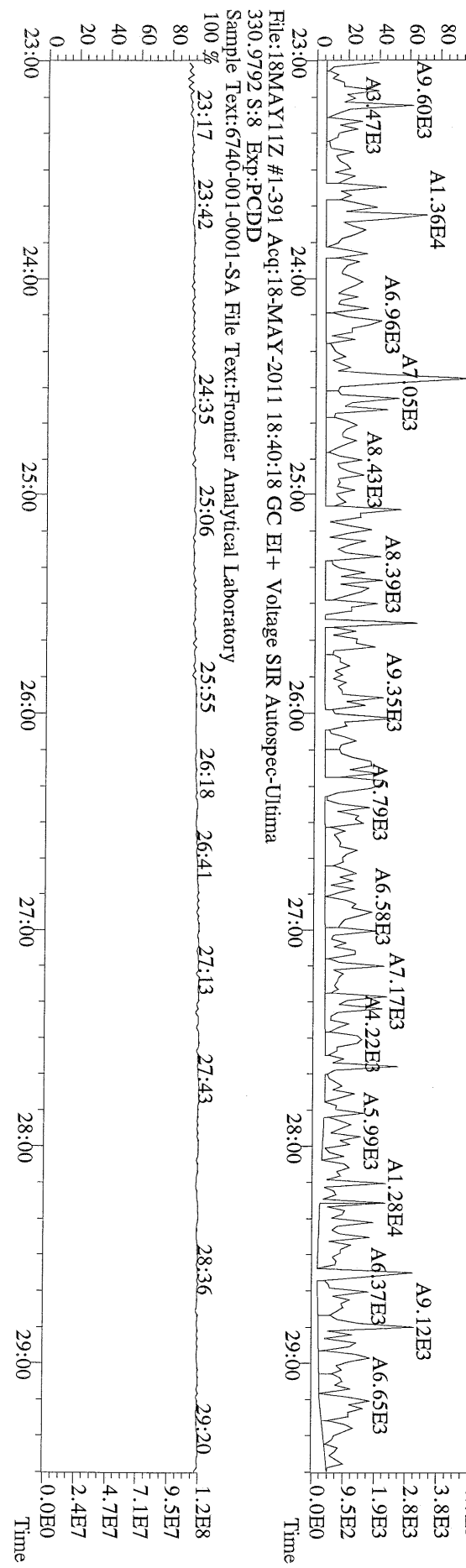
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 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-391 Acq:18-MAY-2011 18:40:18 GC EI+ Voltage SIR Autospec-Utima
 339.8597 S:8 BSUB(1000,15,-3.0) PKD(5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory

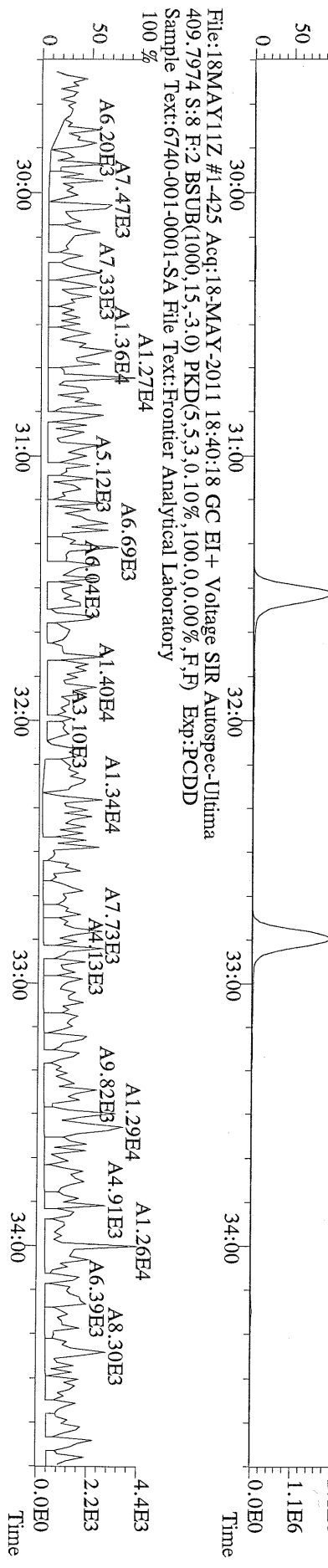
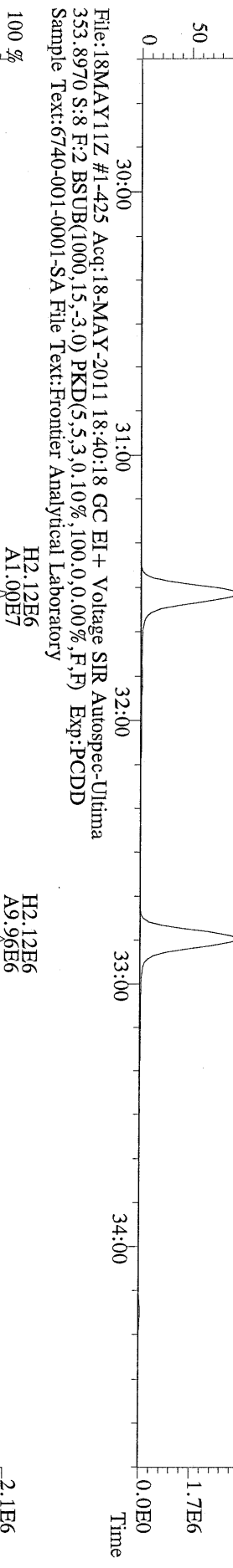
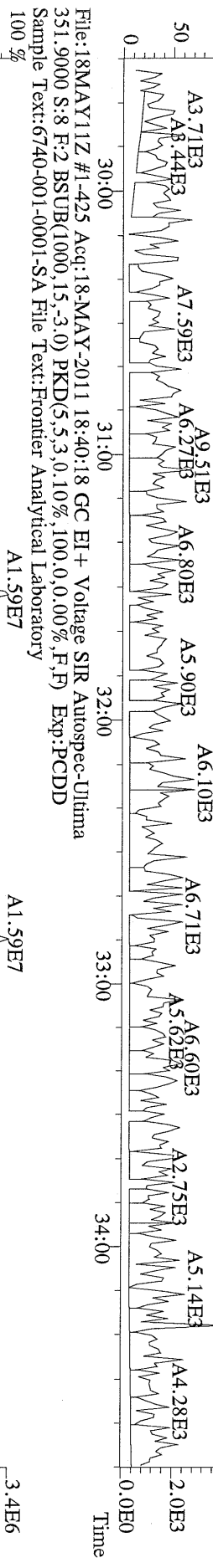
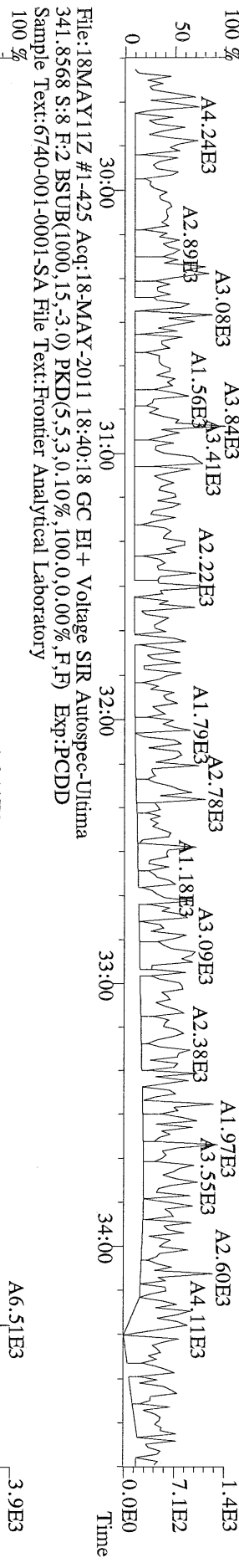


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 409.7974 S:8 BSUB(1000,15,-3.0) PKD(5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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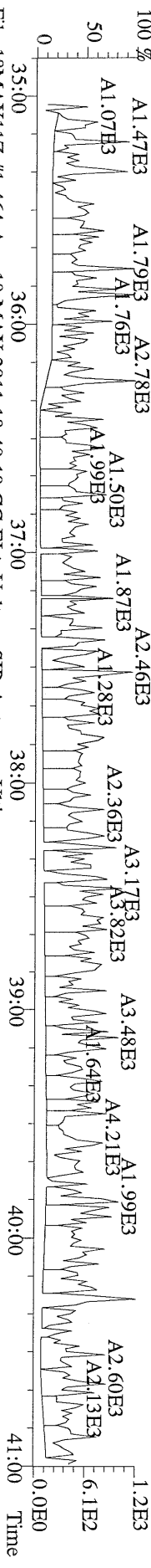


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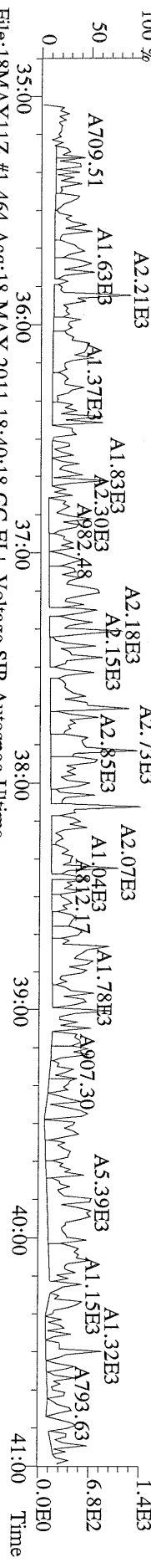
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 Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



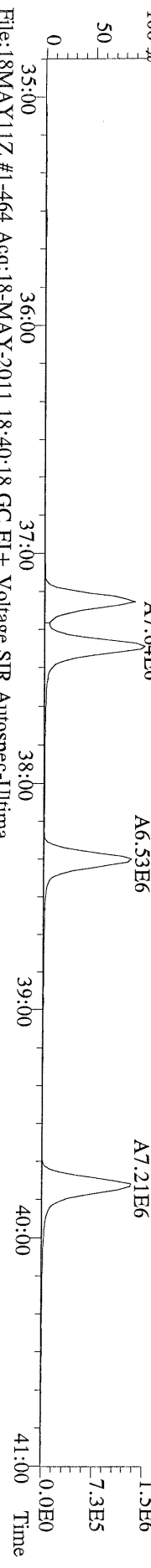
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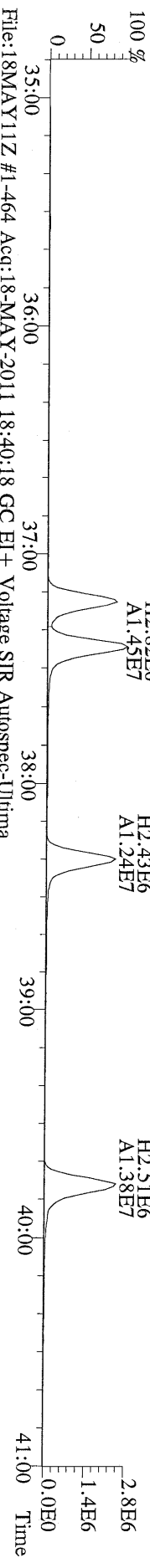
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Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



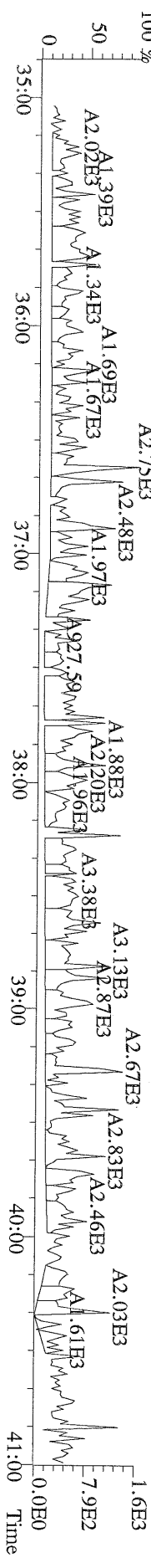
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383.8639 S:8 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-001-0001-SA File Text:Frontier Analytical Laboratory



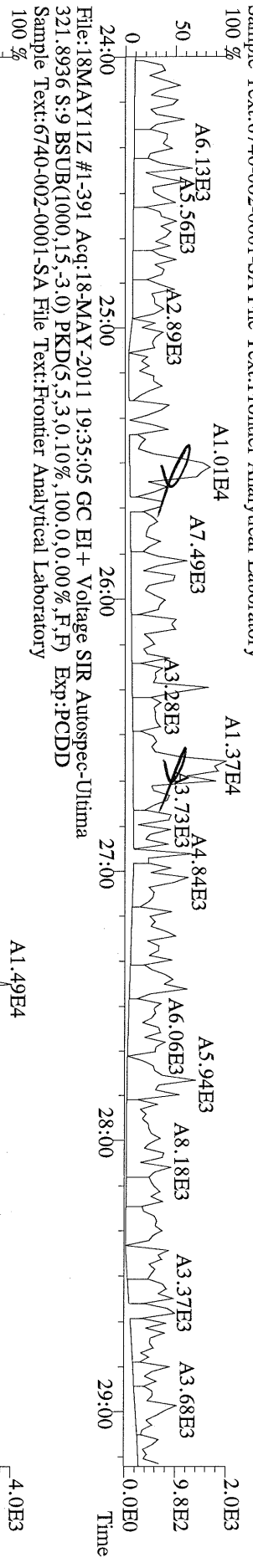
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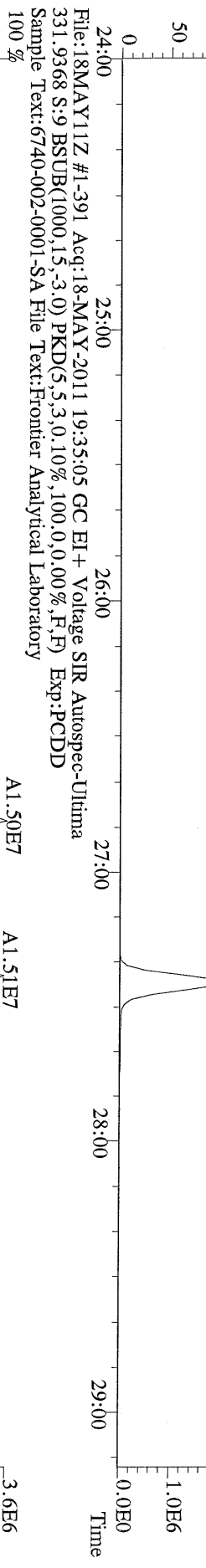
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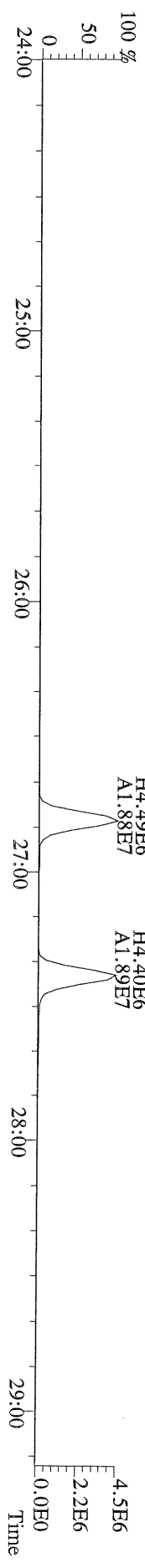
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319.8965 S:9 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



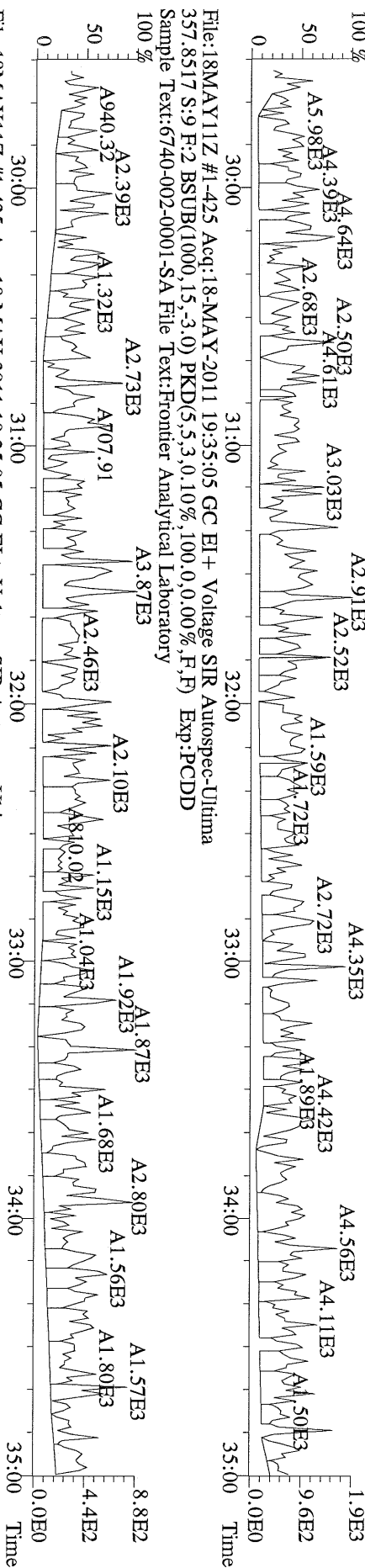
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Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



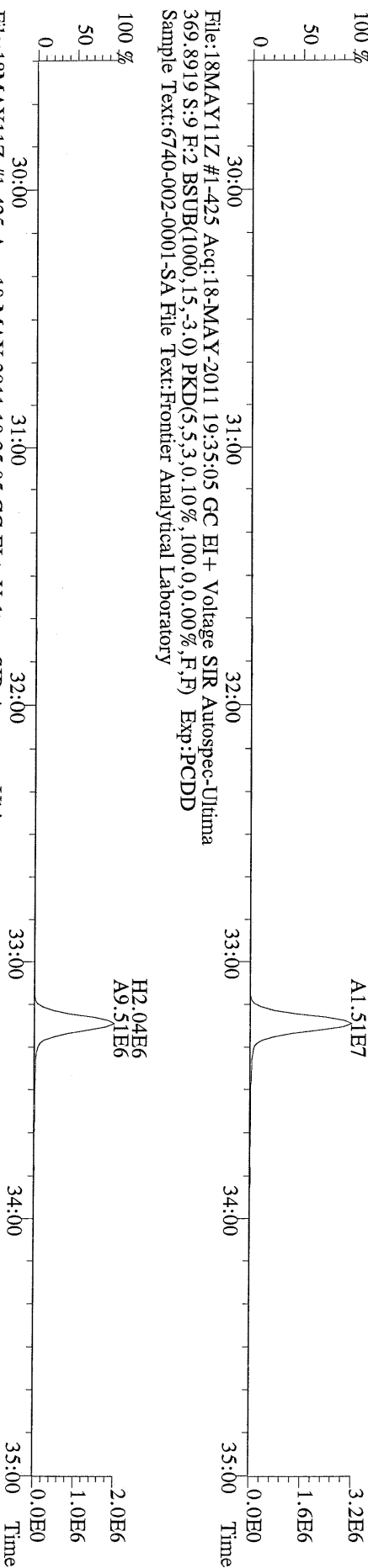
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333.9339 S:9 BSUB(1000,15,-3.0) PKD(5,5,3.0,100,0,0,0.00%,F,F) Exp:PCDD
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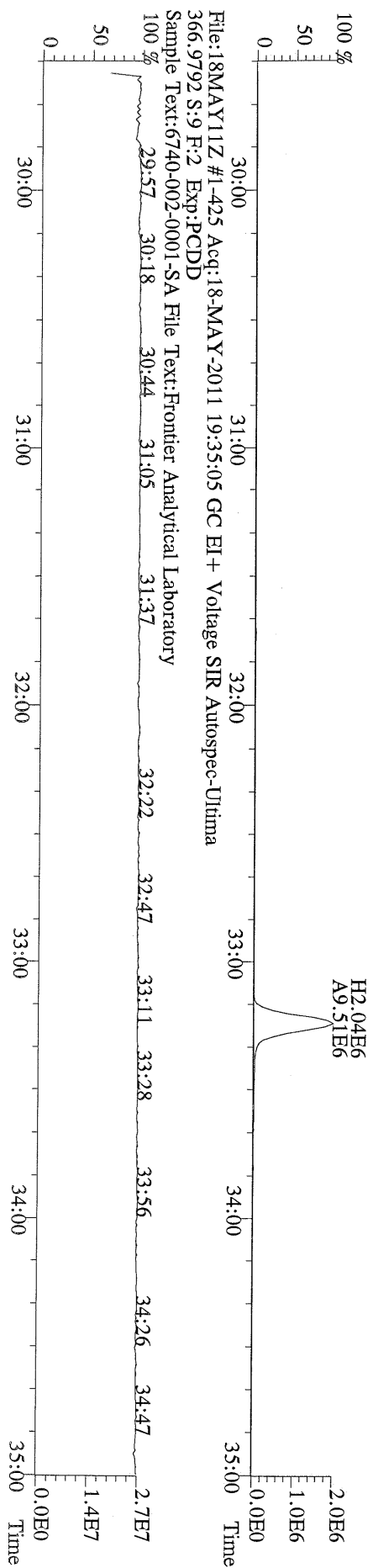
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 355.8546 S:9 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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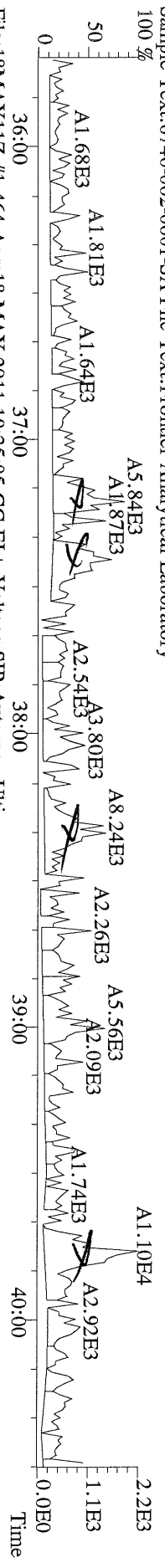
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 367.8949 S:9 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



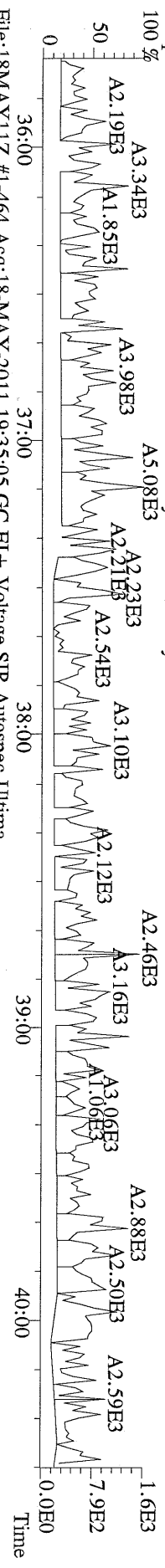
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 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



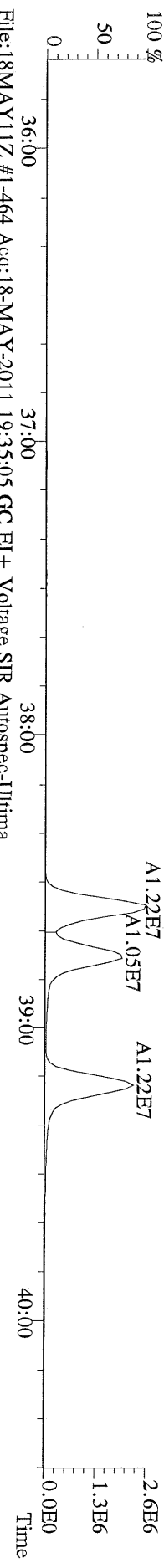
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 389.8156 S:9 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



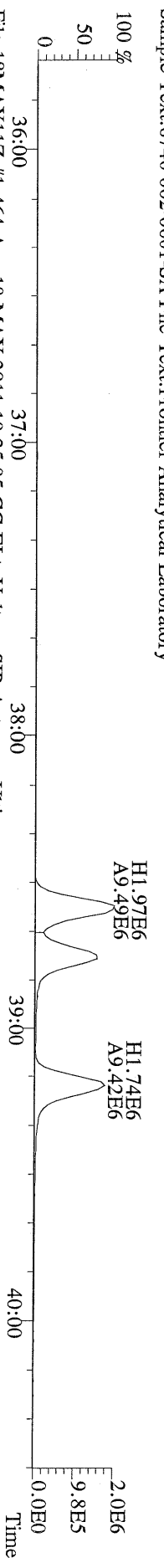
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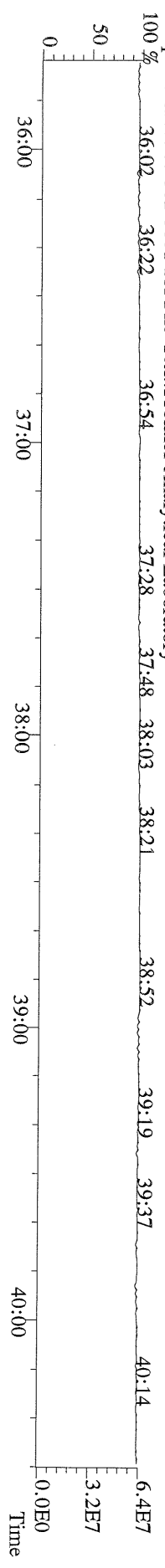
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 401.8559 S:9 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



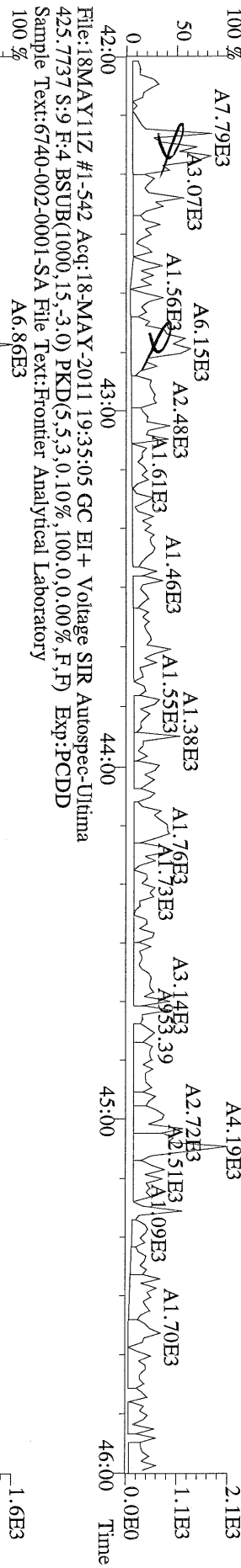
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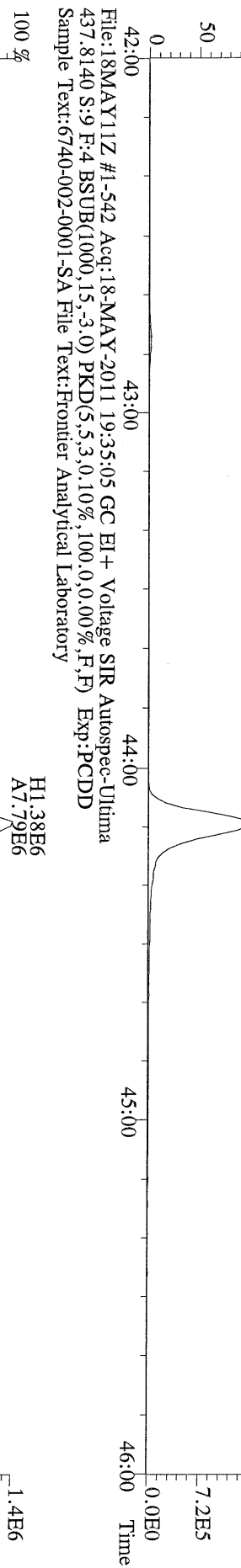
File:18MAY11Z #1-464 Acq:18-MAY-2011 19:35:05 GC EI+ Voltage SIR Autospec-Ultima
 380.9760 S:9 F:3 Exp:PCDD
 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



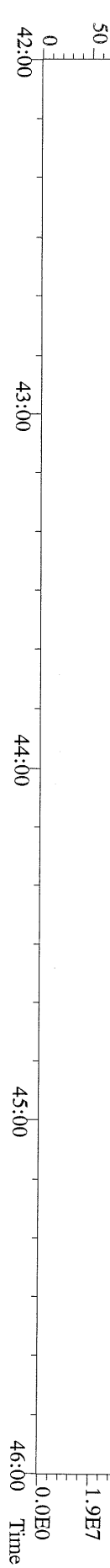
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 423.7767 S:9 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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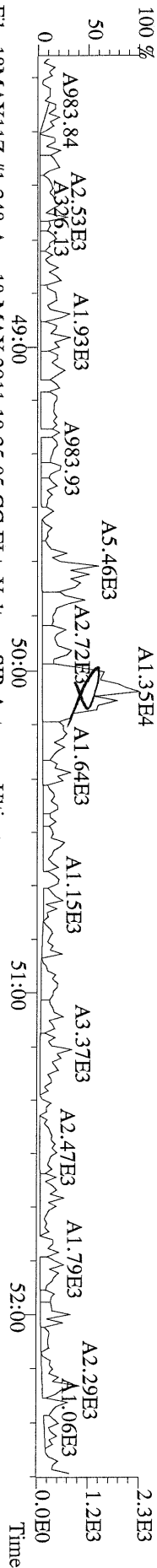
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 435.8169 S:9 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
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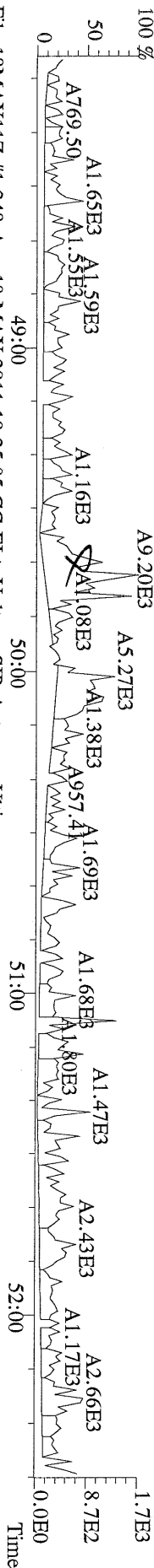
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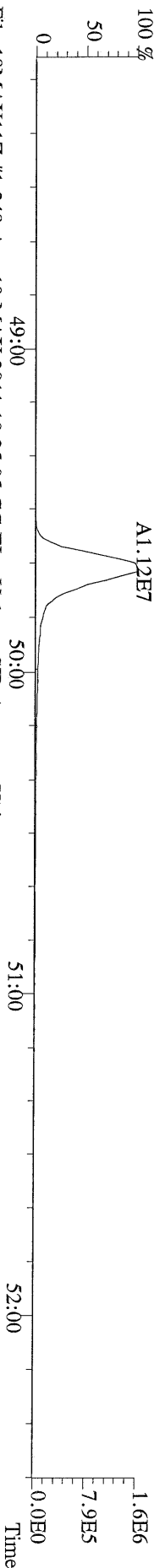
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457.7377 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
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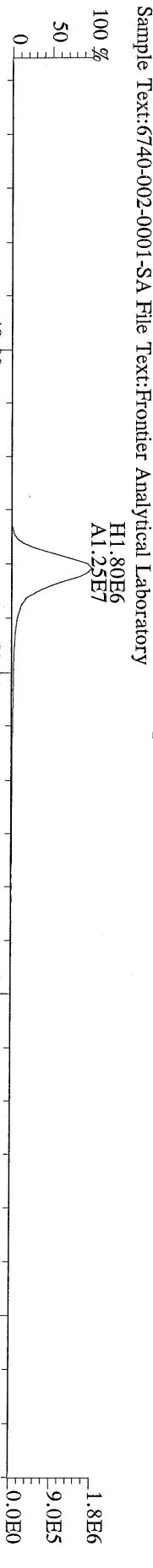
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459.7348 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



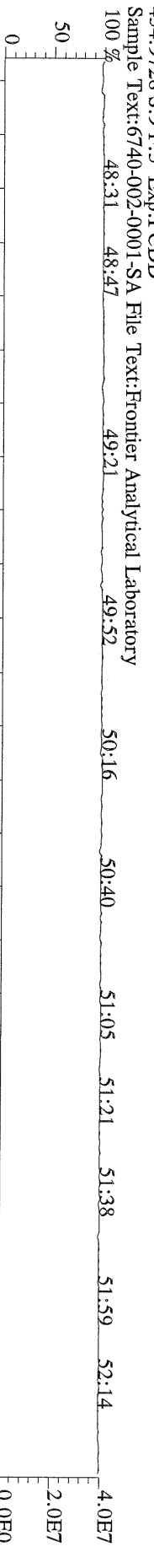
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Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



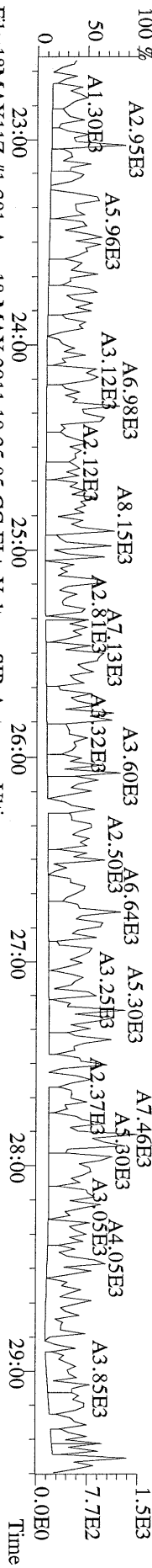
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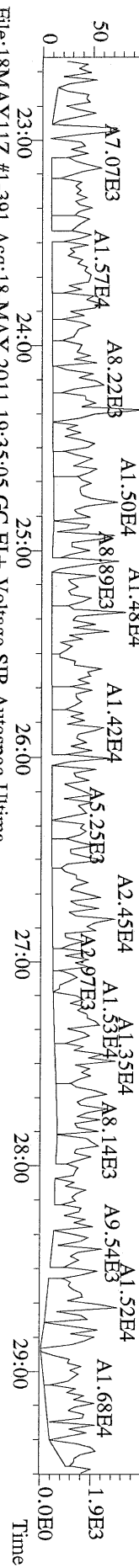
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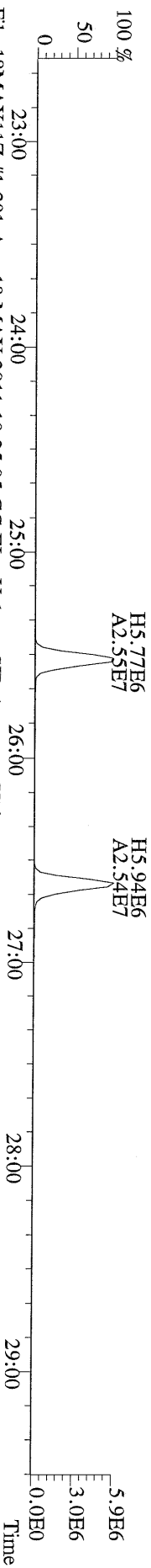
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 303.9016 S:9 BSUB(1000,15,-3.0) PKD(5,5,3.0,10%,100.0,0.00%,F,F) Exp:PCDD
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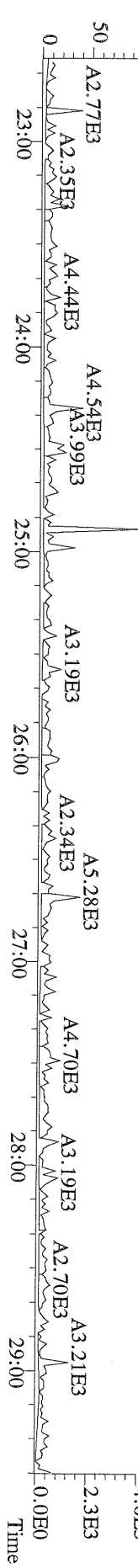
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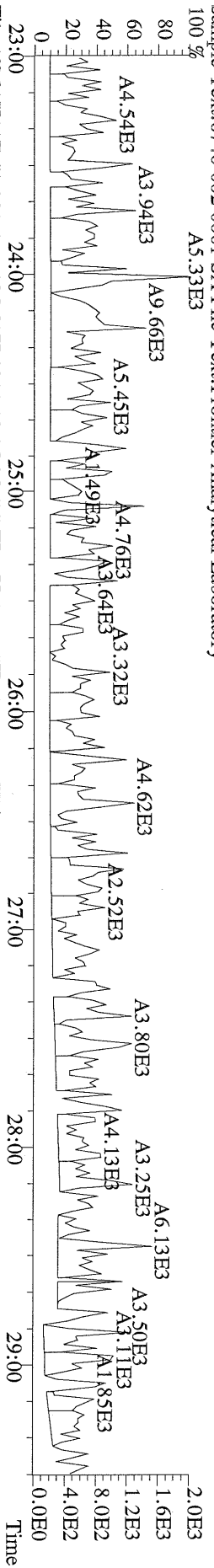
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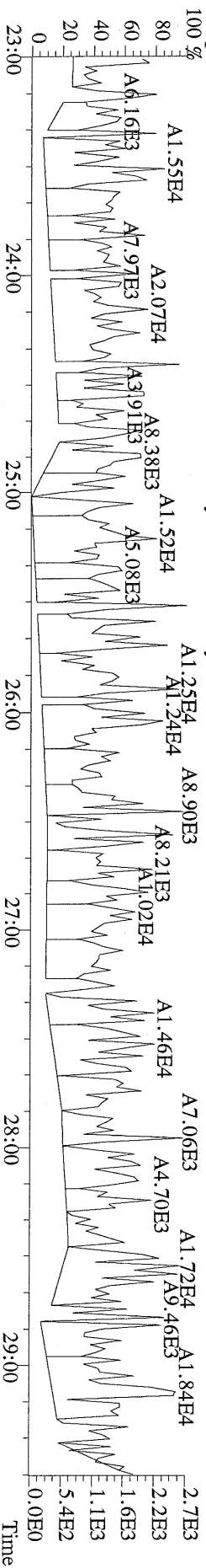
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 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



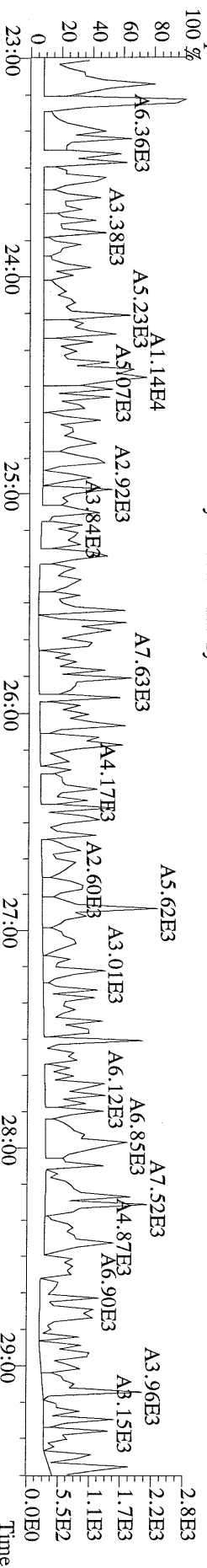
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 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



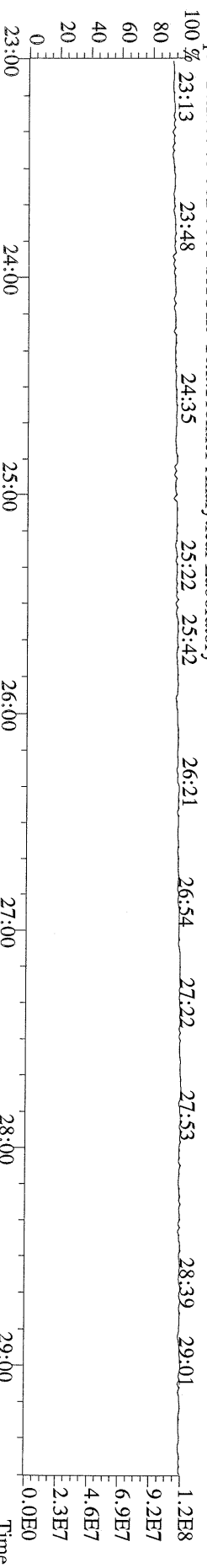
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 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



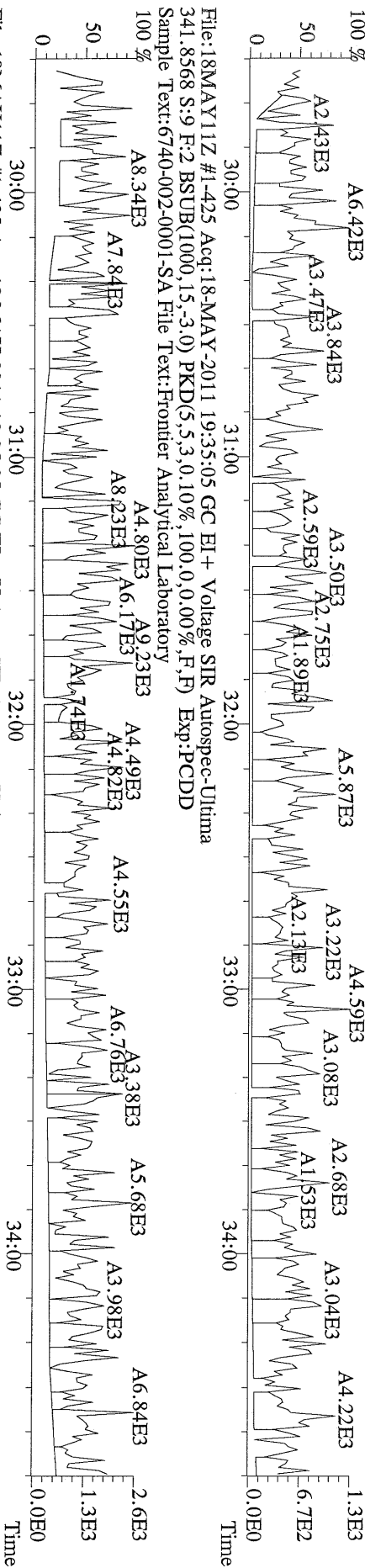
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 409.7974 S:9 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



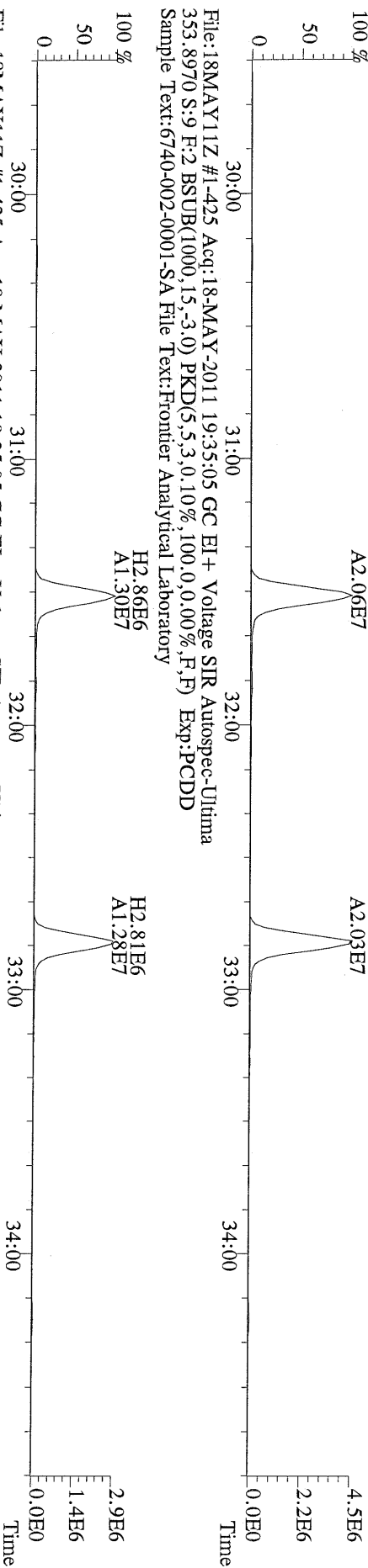
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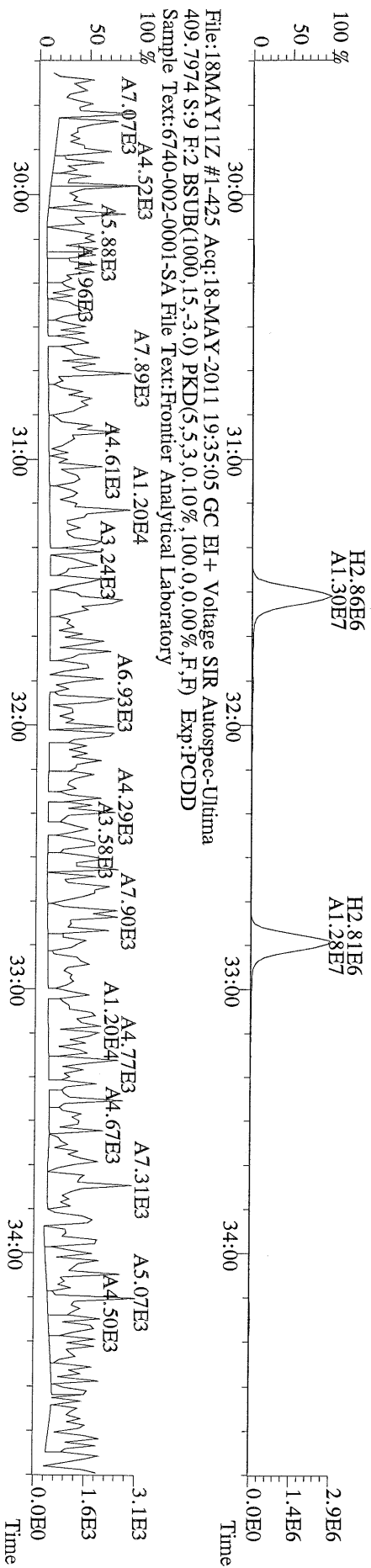
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339.8597 S:9 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



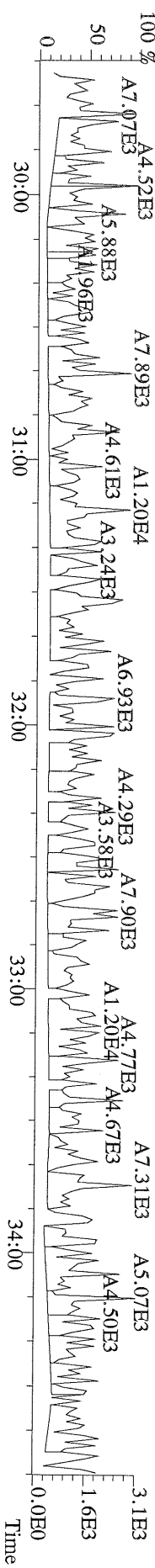
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Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



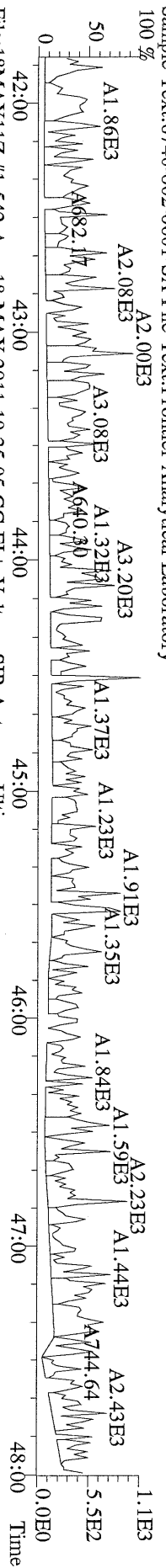
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353.8970 S:9 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
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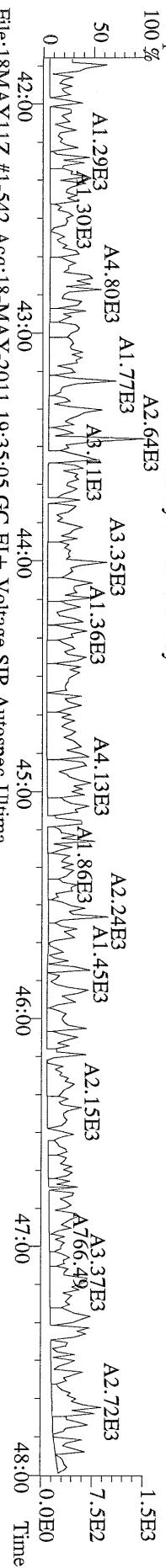
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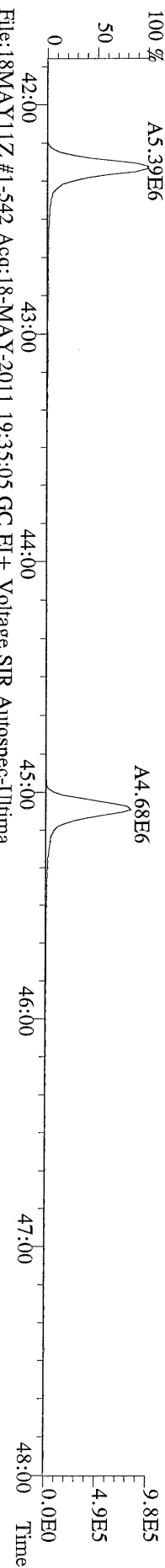
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 407.7818 S:9 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



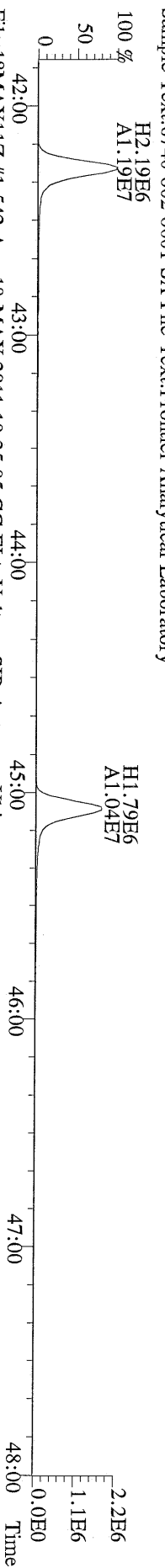
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 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



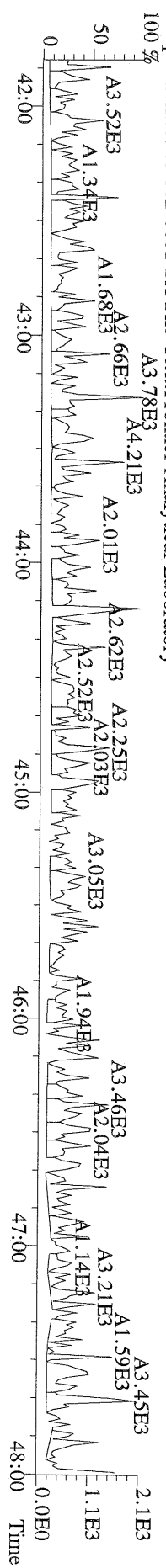
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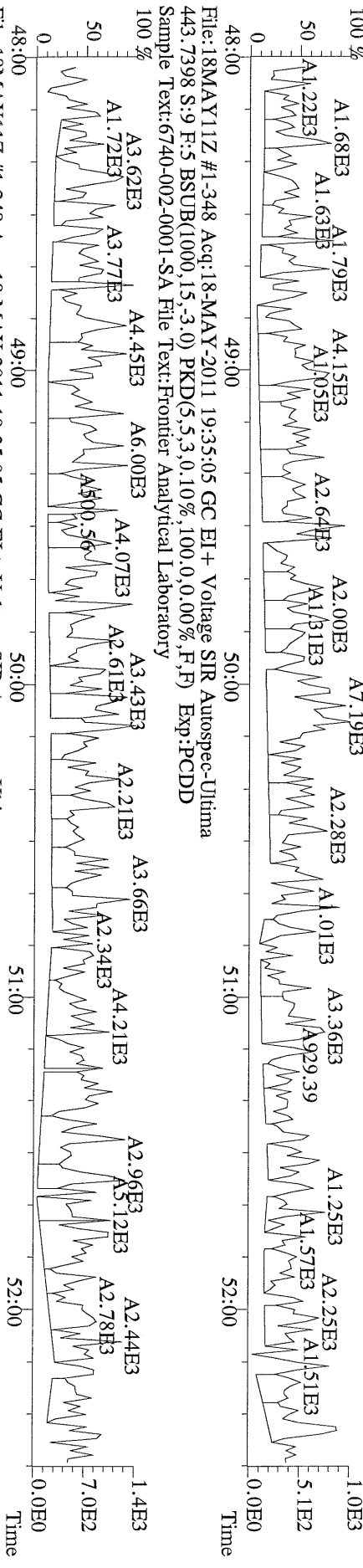
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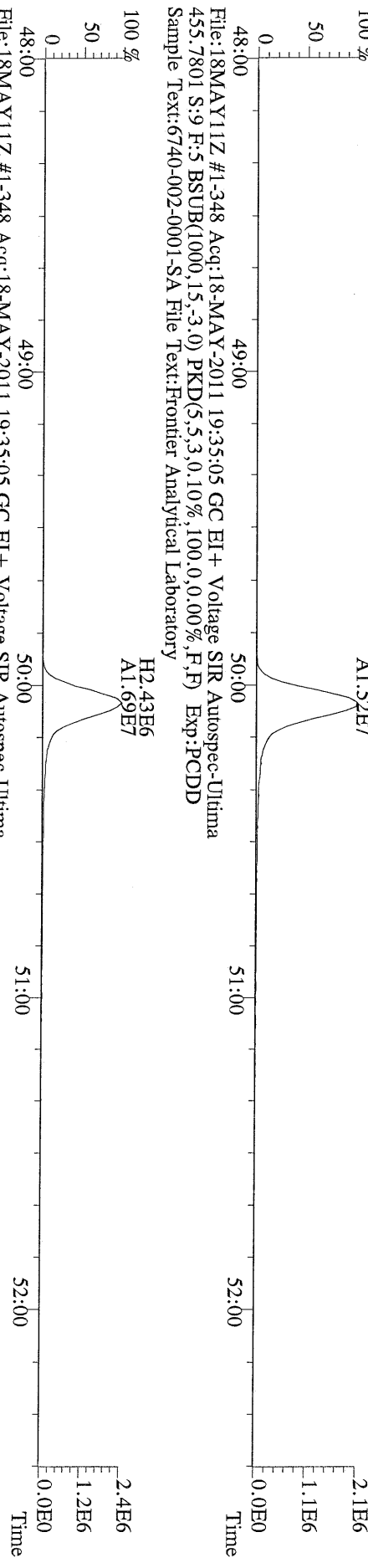
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 Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



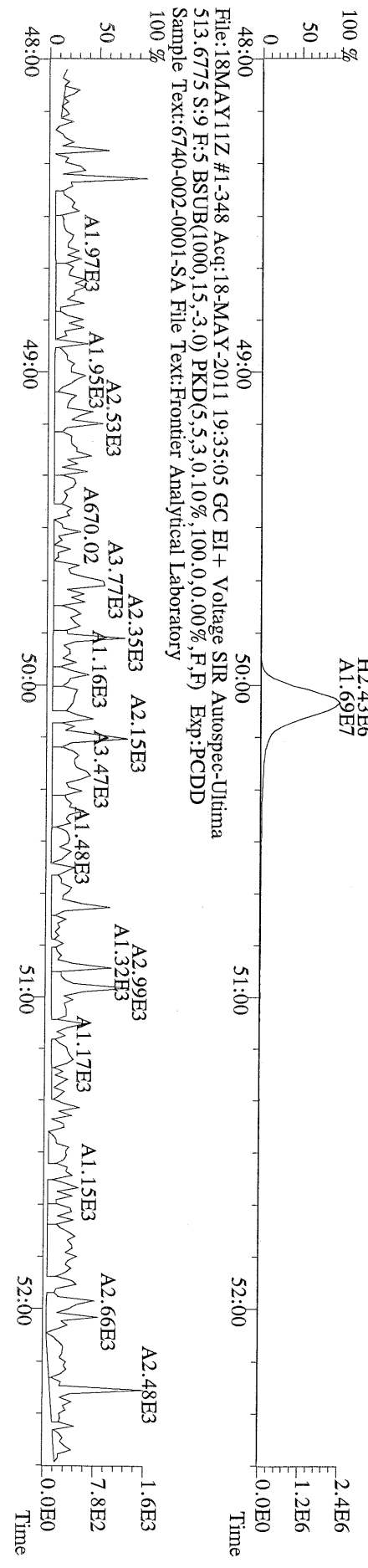
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441.7428 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
Sample Text:6740-002-0001-SA File Text:Frontier Analytical Laboratory



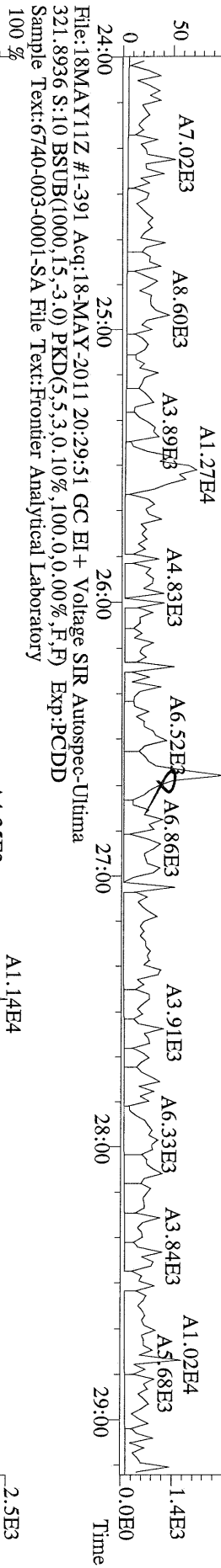
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453.7831 S:9 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0.0,0.00%,F,F) Exp:PCDD
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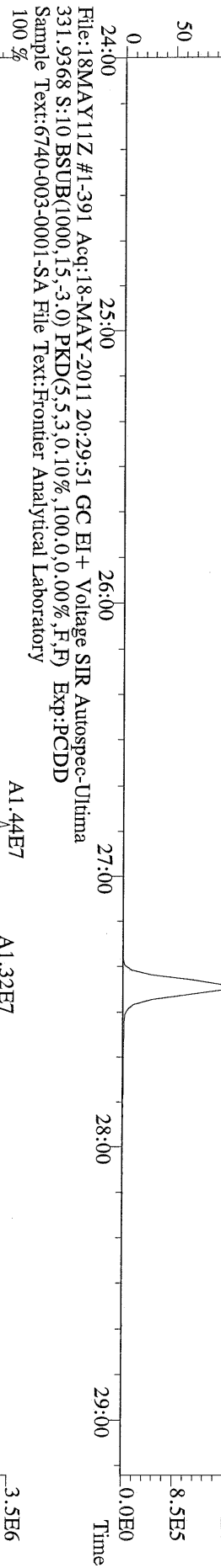
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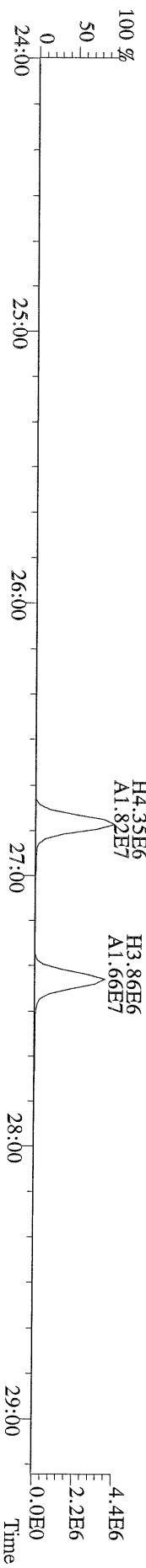
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 319.8965 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
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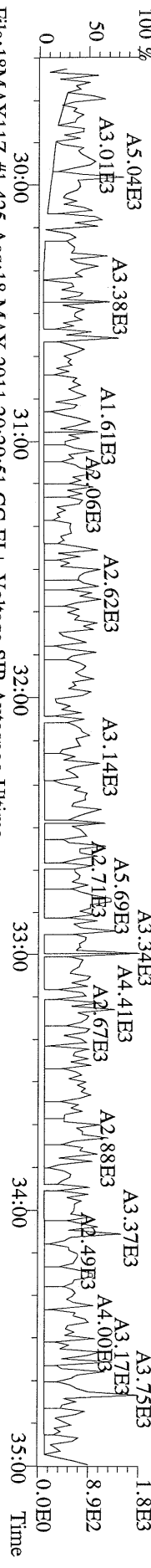
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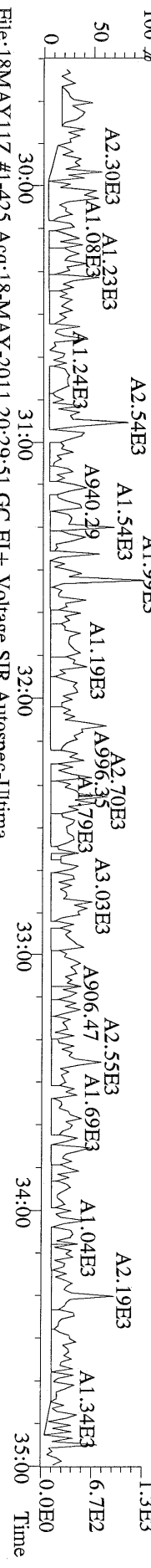
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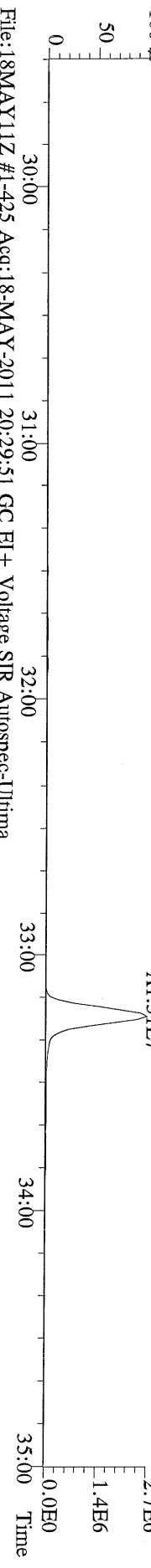
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 355.8546 S:10 F:2 BSUB(1000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
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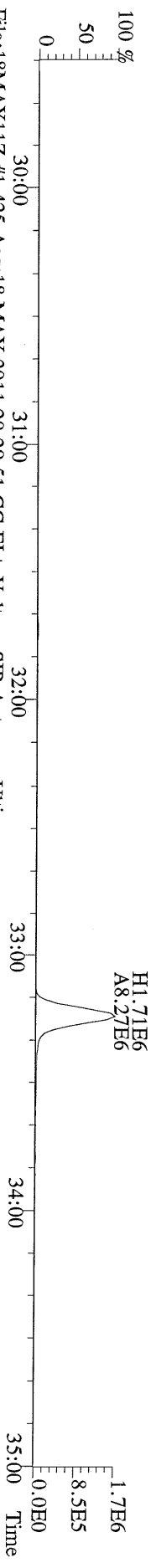
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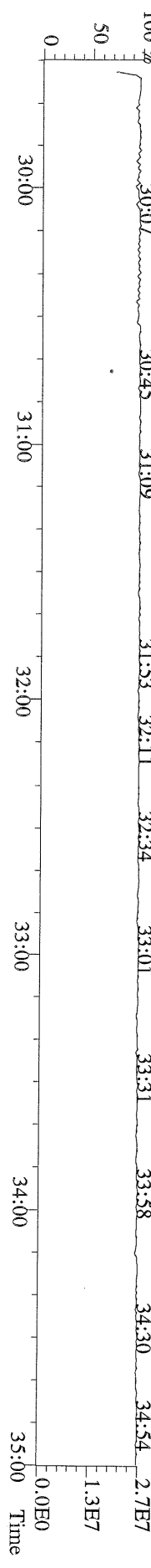
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 367.8949 S:10 F:2 BSUB(1000,15,-3.0) PKD(5.5,3.0,100.0,0.00%,F,F) Exp:PCDD
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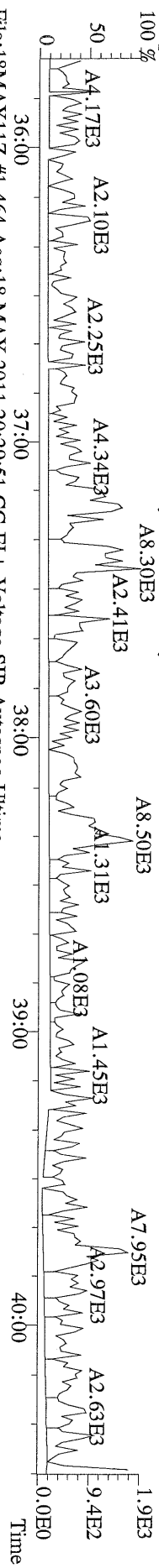
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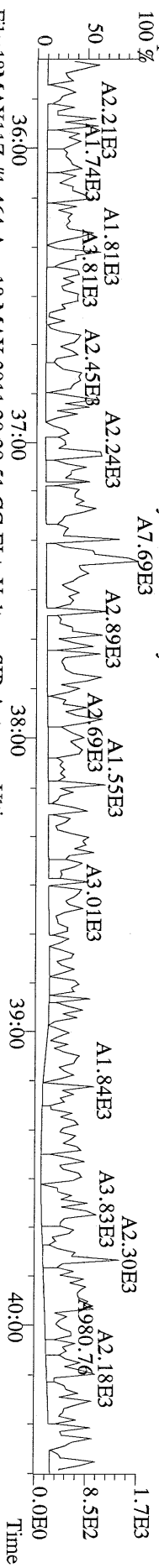
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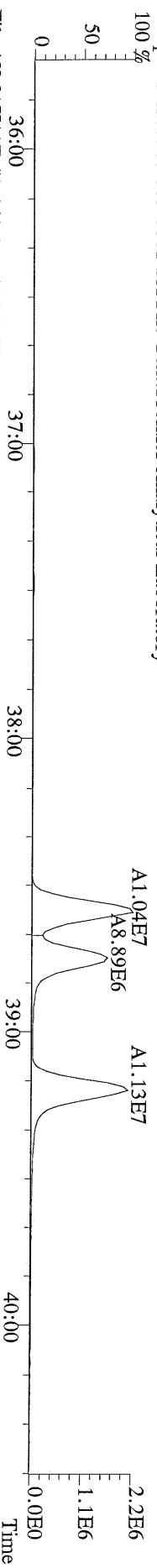
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 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



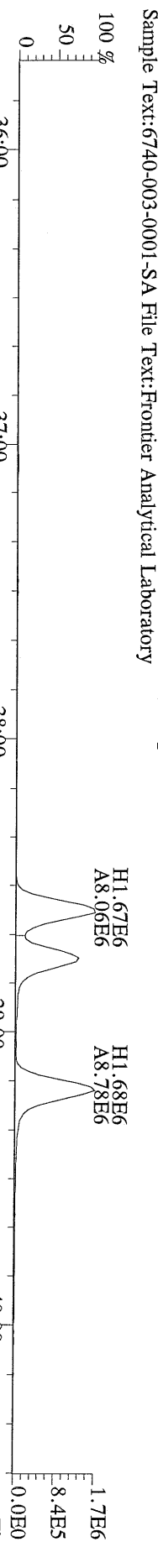
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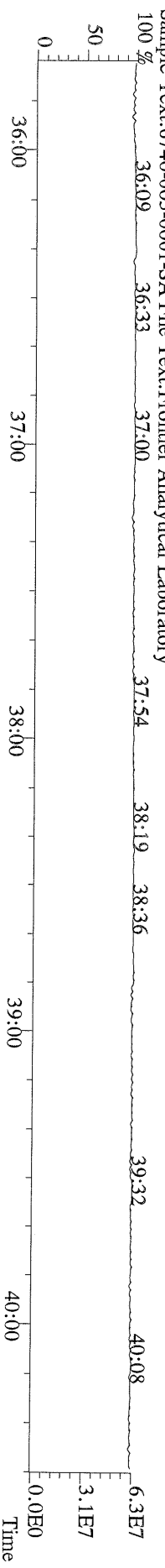
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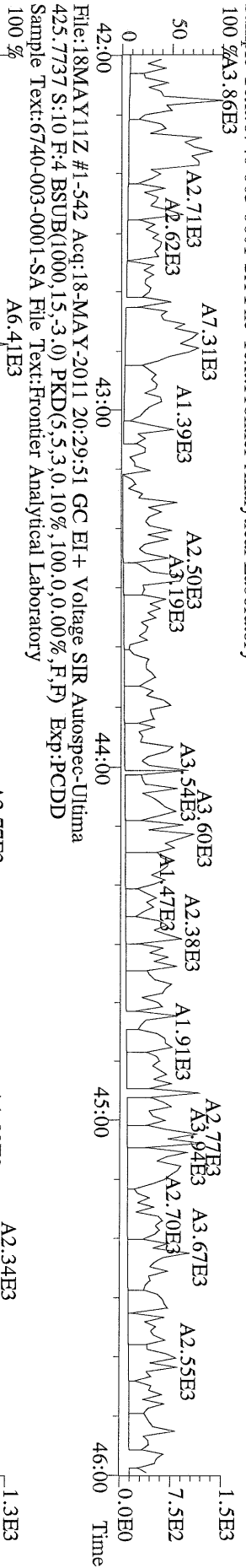
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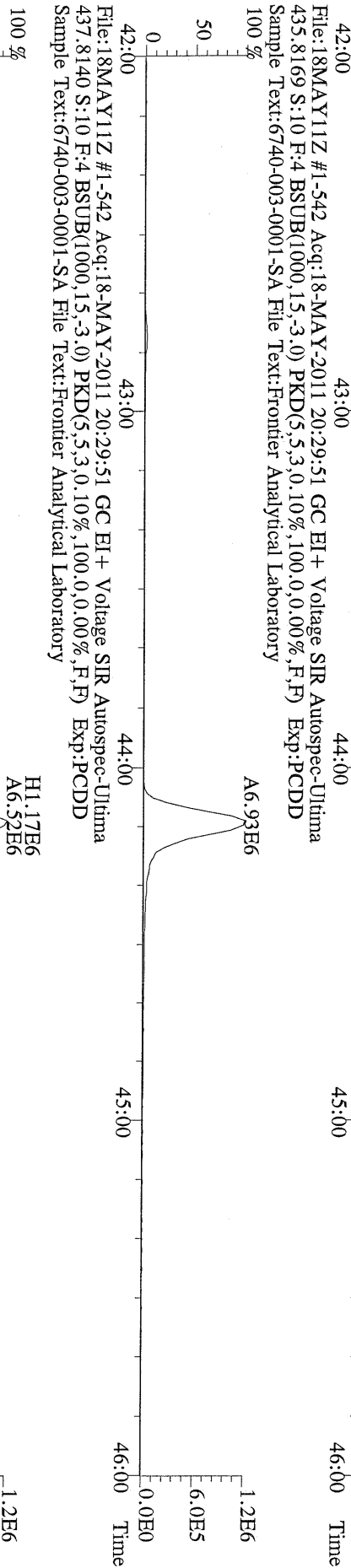
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 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



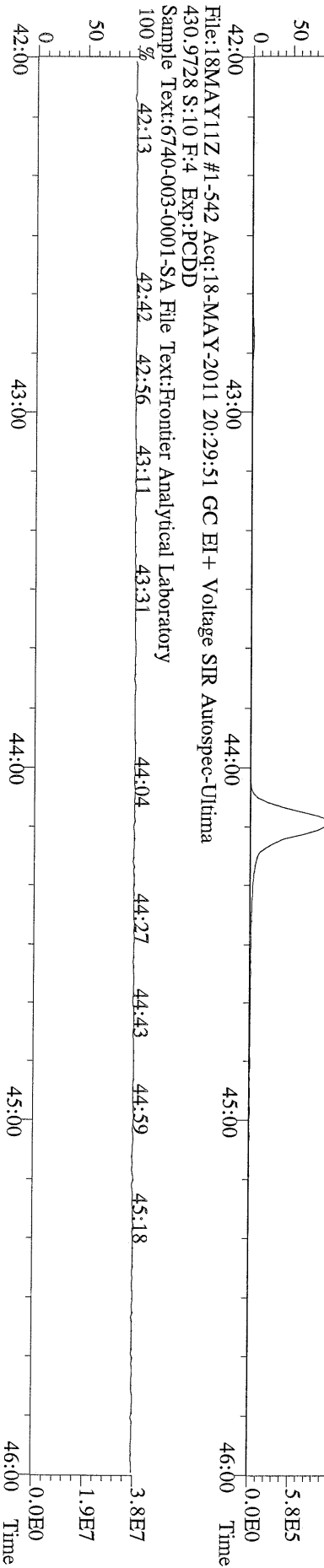
File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
423.7767 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory
100 %A3.86E3



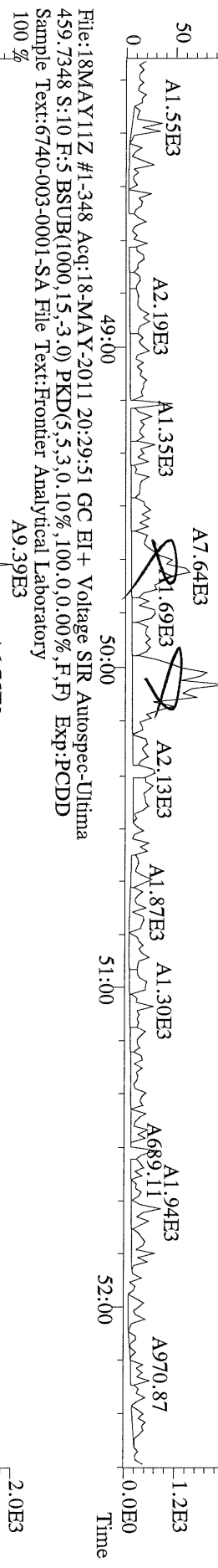
File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
435.8169 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



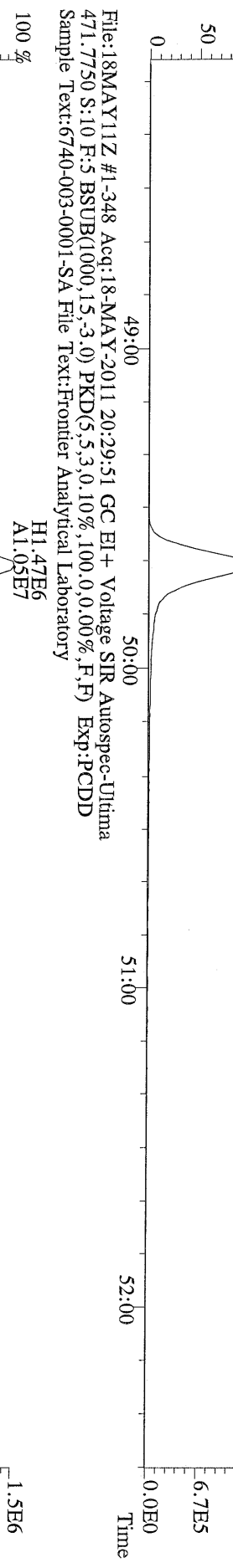
File:18MAY11Z #1-542 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
437.8140 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory
100 %



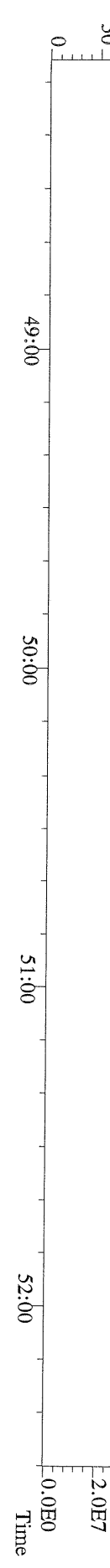
File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 457.7377 S:10 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



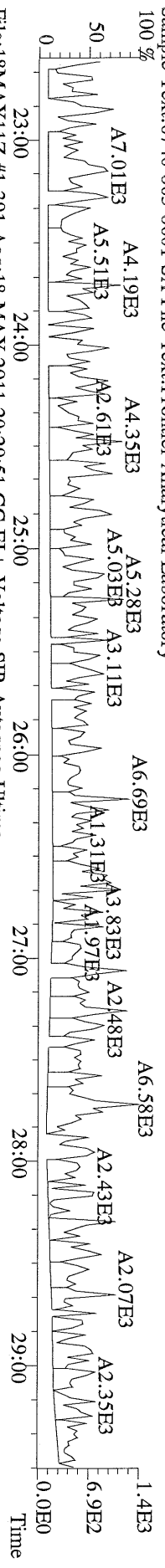
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 469.7780 S:10 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



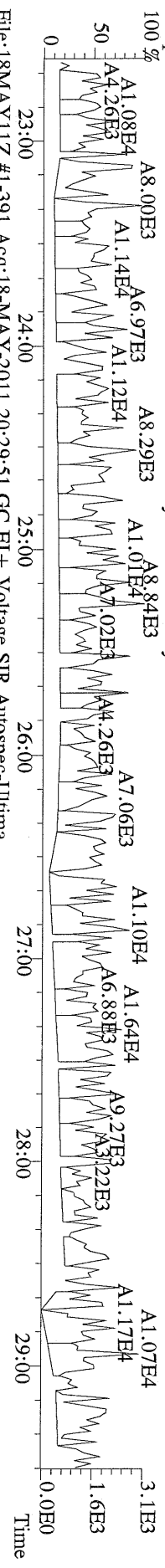
File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 454.9728 S:10 F:5 Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



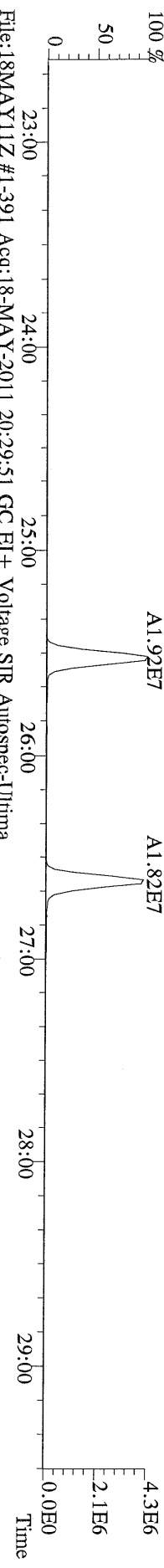
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 303.9016 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



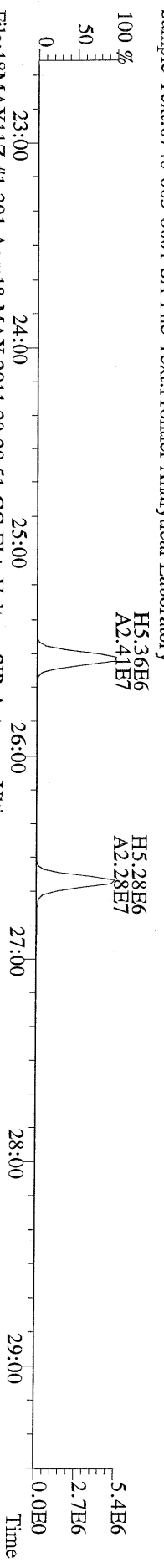
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 305.8987 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



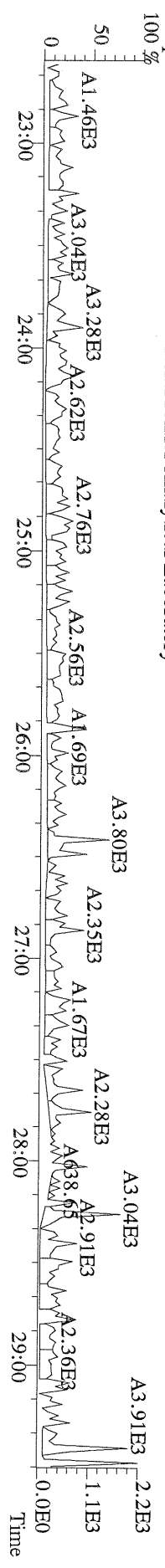
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 315.9419 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



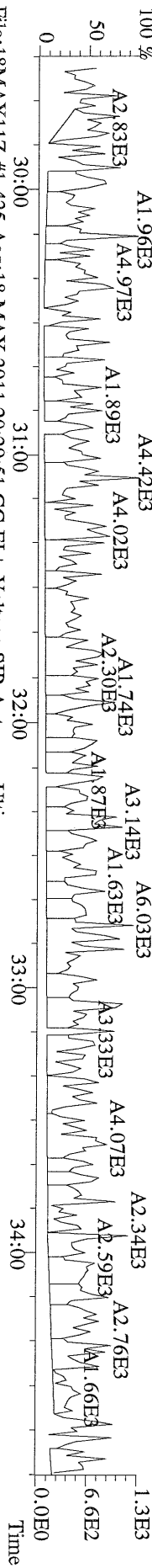
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 317.9389 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



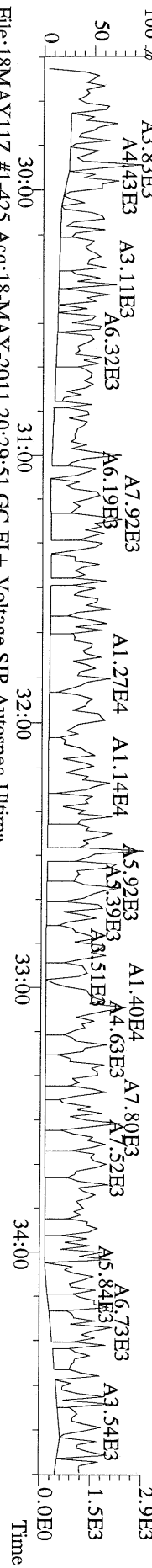
File:18MAY11Z #1-391 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 375.8364 S:10 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



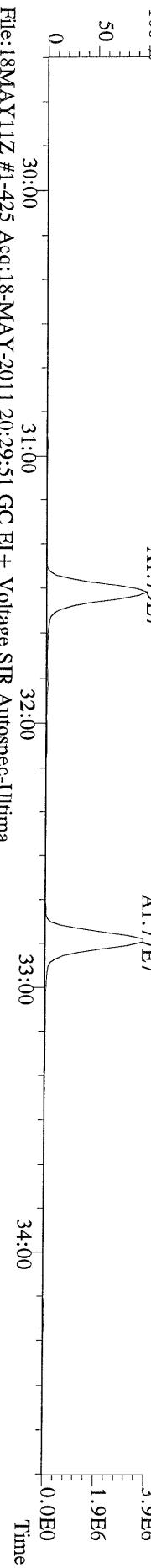
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
 339.8597 S:10 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



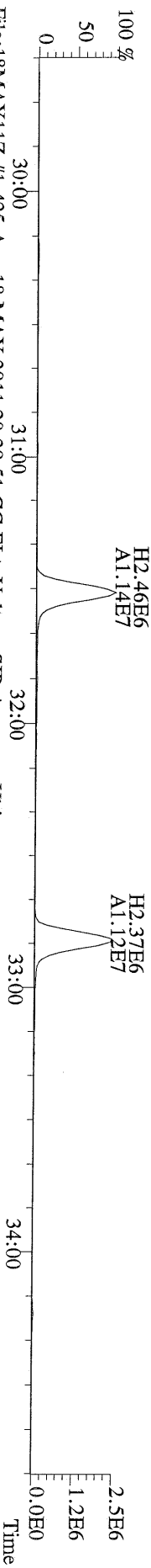
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
 341.8568 S:10 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



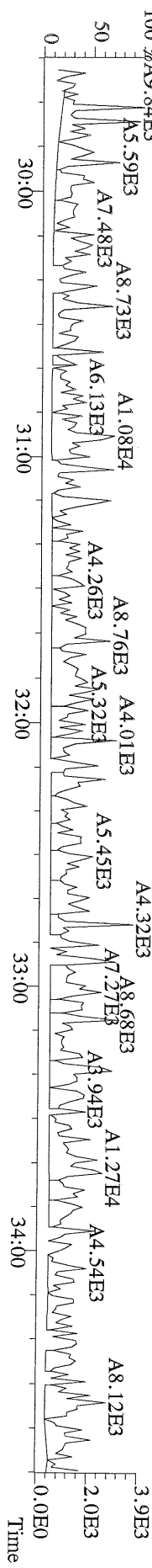
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
 351.9000 S:10 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



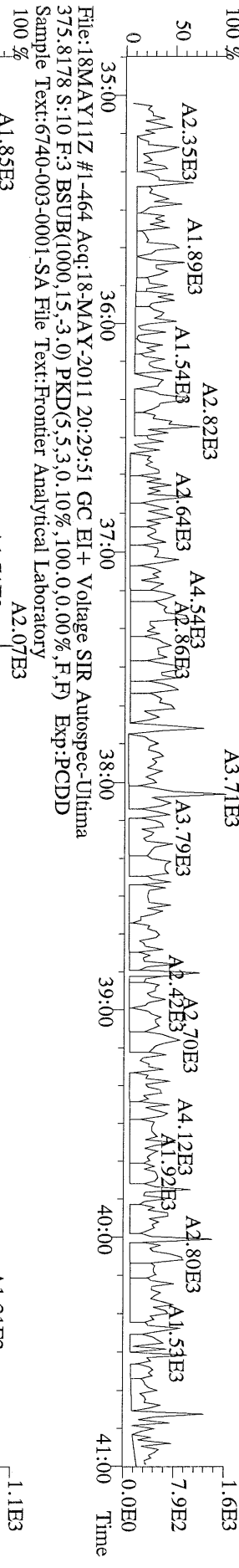
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
 353.8970 S:10 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



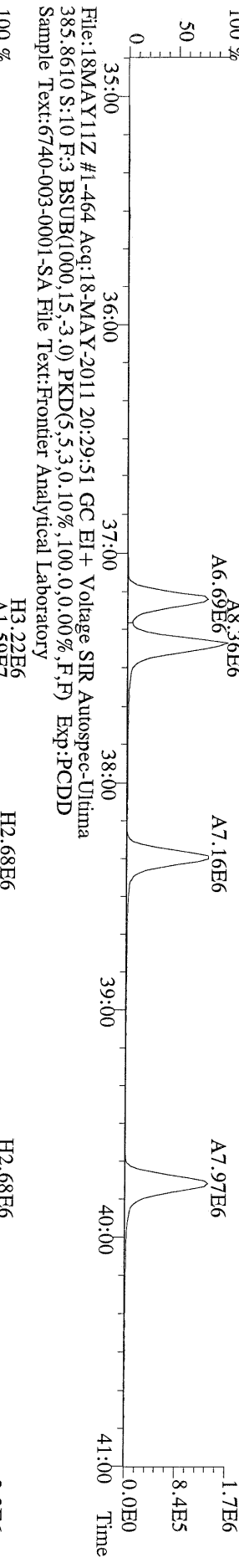
File:18MAY11Z #1-425 Acq:18-MAY-2011 20:29:51 GC EI + Voltage SIR Autospec-Ultima
 409.7974 S:10 F:2 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



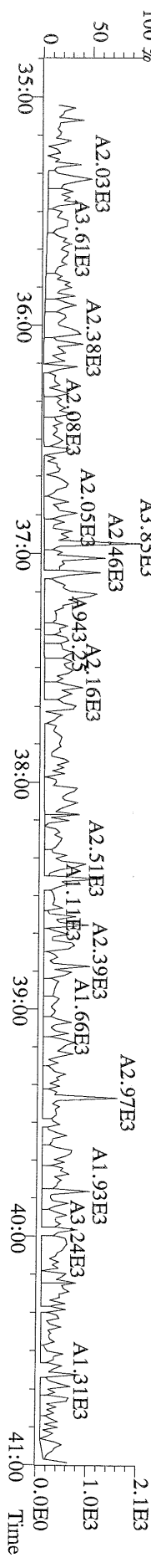
File:18MAY11Z #1-464 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 373.8207 S:10 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



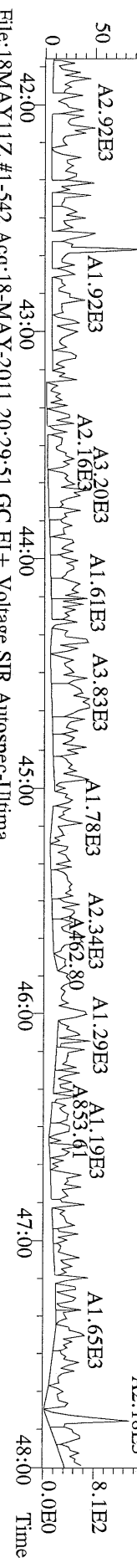
File:18MAY11Z #1-464 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 383.8639 S:10 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



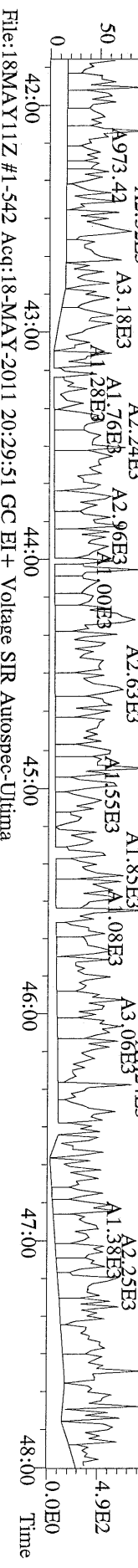
File:18MAY11Z #1-464 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 445.7555 S:10 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0.00%,F,F) Exp:PCDD
 Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



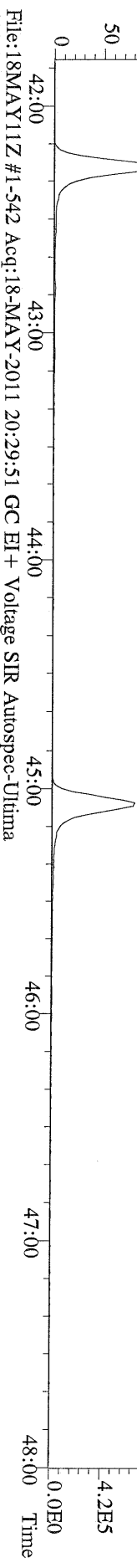
File: 18MAY11Z #1-542 Acq: 18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 407.7818 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text: 6740-003-0001-SA File Text: Frontier Analytical Laboratory



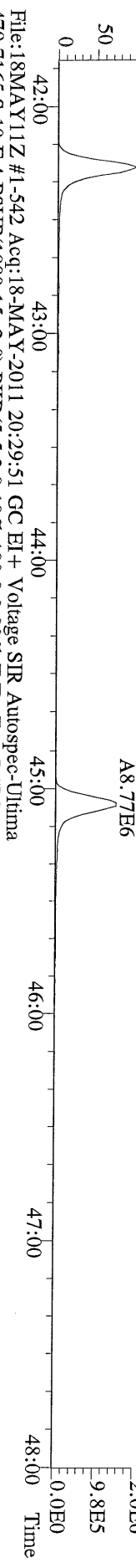
File: 18MAY11Z #1-542 Acq: 18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 409.7788 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text: 6740-003-0001-SA File Text: Frontier Analytical Laboratory



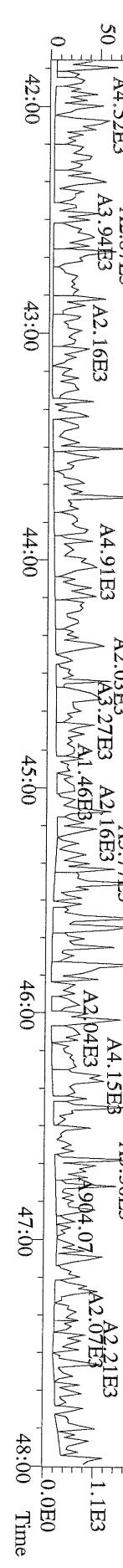
File: 18MAY11Z #1-542 Acq: 18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 417.8253 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text: 6740-003-0001-SA File Text: Frontier Analytical Laboratory



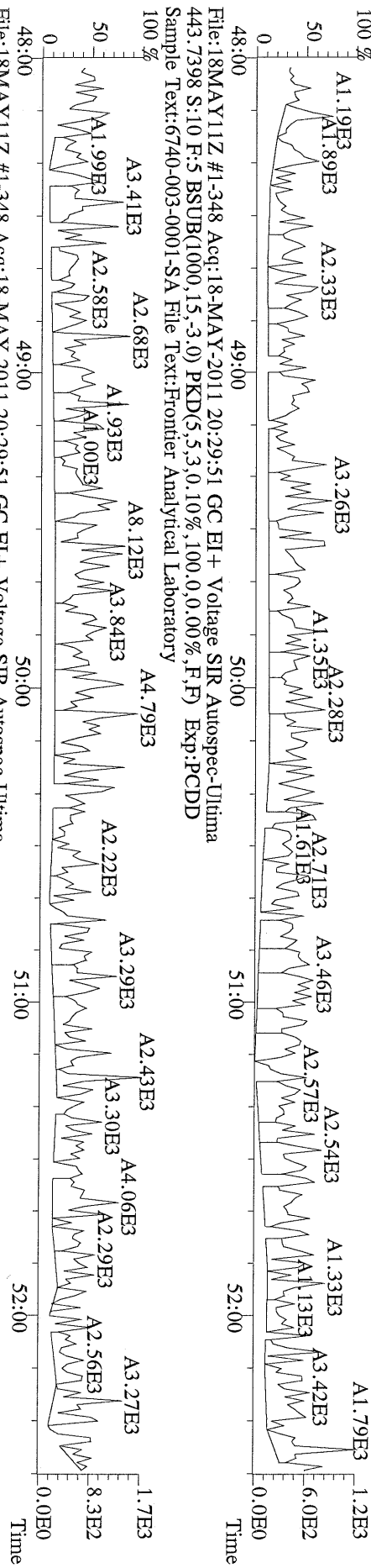
File: 18MAY11Z #1-542 Acq: 18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 419.8220 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text: 6740-003-0001-SA File Text: Frontier Analytical Laboratory



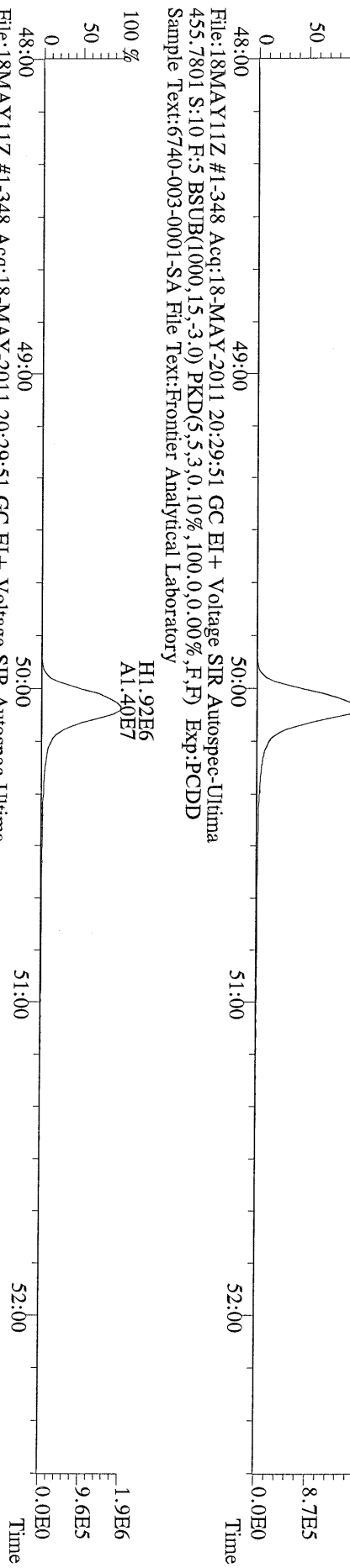
File: 18MAY11Z #1-542 Acq: 18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
 479.7165 S:10 F:4 BSUB(1000,15,-3.0) PKD(5,5,3,0.10%,100.0,0.00%,F,F) Exp:PCDD
 Sample Text: 6740-003-0001-SA File Text: Frontier Analytical Laboratory



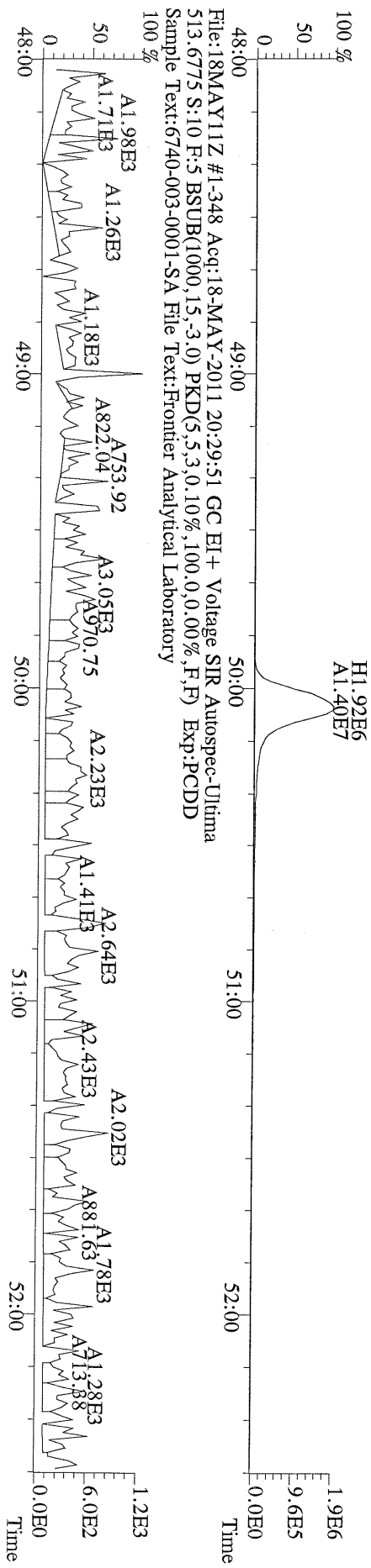
File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
441.7428 S:10 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
453.7831 S:10 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-348 Acq:18-MAY-2011 20:29:51 GC EI+ Voltage SIR Autospec-Ultima
455.7801 S:10 F:5 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
Sample Text:6740-003-0001-SA File Text:Frontier Analytical Laboratory



| Name | Resp | RA | RT | RRF | Conc | Qual | Fac Noise-1 | Noise-2 | DL | #Hom | |
|--------------------------|----------|--------|--------|------|------|------|-------------|---------|------|-------|---|
| 2,3,7,8-TCDD | * | * n | NotFnd | 1.15 | * | | 2.50 | 636 | 663 | 0.962 | |
| 1,2,3,7,8-PeCDD | * | * n | NotFnd | 1.02 | * | | 2.50 | 832 | 380 | 1.50 | |
| 1,2,3,4,7,8-HxCDD | * | * n | NotFnd | 1.09 | * | | 2.50 | 652 | 748 | 1.95 | |
| 1,2,3,6,7,8-HxCDD | * | * n | NotFnd | 1.08 | * | | 2.50 | 652 | 748 | 2.48 | |
| 1,2,3,7,8,9-HxCDD | * | * n | NotFnd | 1.12 | * | | 2.50 | 652 | 748 | 2.13 | |
| 1,2,3,4,6,7,8-HpCDD | 4.28e+04 | 0.92 y | 44:12 | 1.03 | 7.05 | J | 2.50 | - | - | * | |
| OCDD | 1.67e+05 | 0.87 y | 49:42 | 1.21 | 31.5 | J | 2.50 | - | - | * | |
| 2,3,7,8-TCDF | * | * n | NotFnd | 1.09 | * | | 2.50 | 522 | 1050 | 0.931 | |
| 1,2,3,7,8-PeCDF | * | * n | NotFnd | 0.96 | * | | 2.50 | 467 | 877 | 1.30 | |
| 2,3,4,7,8-PeCDF | * | * n | NotFnd | 0.96 | * | | 2.50 | 467 | 877 | 1.29 | |
| 1,2,3,4,7,8-HxCDF | * | * n | NotFnd | 1.18 | * | | 2.50 | 540 | 416 | 1.17 | |
| 1,2,3,6,7,8-HxCDF | * | * n | NotFnd | 1.03 | * | | 2.50 | 540 | 416 | 1.17 | |
| 2,3,4,6,7,8-HxCDF | * | * n | NotFnd | 1.17 | * | | 2.50 | 540 | 416 | 1.17 | |
| 1,2,3,7,8,9-HxCDF | * | * n | NotFnd | 1.27 | * | | 2.50 | 540 | 416 | 1.02 | |
| 1,2,3,4,6,7,8-HpCDF | * | * n | NotFnd | 1.36 | * | | 2.50 | 552 | 520 | 1.71 | |
| 1,2,3,4,7,8,9-HpCDF | * | * n | NotFnd | 1.35 | * | | 2.50 | 552 | 520 | 2.11 | |
| OCDF | * | * n | NotFnd | 0.97 | * | | 2.50 | 402 | 542 | 2.99 | |
| Rec | | | | | | | | | | | |
| 13C-2,3,7,8-TCDD | 2.50e+07 | 0.79 y | 27:23 | 0.99 | 1760 | | | | | 90.3 | |
| 13C-1,2,3,7,8-PeCDD | 1.79e+07 | 1.57 y | 33:15 | 0.79 | 1570 | | | | | 80.9 | |
| 13C-1,2,3,4,7,8-HxCDD | 1.54e+07 | 1.26 y | 38:35 | 1.03 | 1730 | | | | | 88.8 | |
| 13C-1,2,3,6,7,8-HxCDD | 1.32e+07 | 1.27 y | 38:45 | 0.96 | 1600 | | | | | 82.1 | |
| 13C-1,2,3,4,6,7,8-HpCDD | 1.14e+07 | 1.06 y | 44:10 | 0.75 | 1760 | | | | | 90.8 | |
| 13C-OCDD | 1.71e+07 | 0.88 y | 49:40 | 0.50 | 3930 | | | | | 101 | |
| 13C-2,3,7,8-TCDF | 3.33e+07 | 0.80 y | 26:37 | 0.98 | 1760 | | | | | 90.7 | |
| 13C-1,2,3,7,8-PeCDF | 2.38e+07 | 1.58 y | 31:31 | 0.78 | 1600 | | | | | 82.1 | |
| 13C-2,3,4,7,8-PeCDF | 2.43e+07 | 1.56 y | 32:49 | 0.75 | 1680 | | | | | 86.3 | |
| 13C-1,2,3,4,7,8-HxCDF | 1.59e+07 | 0.52 y | 37:12 | 1.05 | 1750 | | | | | 89.9 | |
| 13C-1,2,3,6,7,8-HxCDF | 1.97e+07 | 0.52 y | 37:25 | 1.40 | 1620 | | | | | 83.6 | |
| 13C-2,3,4,6,7,8-HxCDF | 1.70e+07 | 0.52 y | 38:19 | 1.16 | 1690 | | | | | 87.2 | |
| 13C-1,2,3,7,8,9-HxCDF | 1.89e+07 | 0.51 y | 39:46 | 1.30 | 1680 | | | | | 86.6 | |
| 13C-1,2,3,4,6,7,8-HpCDF | 1.21e+07 | 0.45 y | 42:16 | 0.83 | 1690 | | | | | 87.2 | |
| 13C-1,2,3,4,7,8,9-HpCDF | 1.06e+07 | 0.44 y | 45:04 | 0.69 | 1760 | | | | | 90.7 | |
| 13C-OCDF | 2.24e+07 | 0.88 y | 50:03 | 0.77 | 3360 | | | | | 86.4 | |
| 37Cl-2,3,7,8-TCDD | 7.33e+06 | | 27:24 | 0.71 | 717 | | | | | 92.3 | |
| 13C-1,2,3,4-TCDD | 2.79e+07 | 0.80 y | 26:49 | - | 50.9 | | | | | | |
| 13C-1,2,3,4-TCDF | 3.74e+07 | 0.80 y | 25:31 | - | 48.6 | | | | | | |
| 13C-1,2,3,7,8,9-HxCDD | 1.68e+07 | 1.26 y | 39:12 | - | 42.3 | | | | | | |
| Total Tetra-Dioxins | * | | NotFnd | 1.15 | * | | 2.50 | 636 | 663 | 0.962 | 0 |
| Total Penta-Dioxins | * | | NotFnd | 1.02 | * | | 2.50 | 832 | 380 | 1.50 | 0 |
| Total Hexa-Dioxins | * | | NotFnd | 1.10 | * | | 2.50 | 652 | 748 | 2.48 | 0 |
| Total Hepta-Dioxins | 8.28e+04 | | 42:49 | 1.03 | 13.7 | J | 2.50 | - | - | * | 2 |
| Total Tetra-Furans | * | | NotFnd | 1.09 | * | | 2.50 | 522 | 1050 | 0.931 | 0 |
| 1st Fn. Tot Penta-Furans | * | | NotFnd | 0.96 | * | | 2.50 | 467 | 877 | 1.30 | 0 |
| Total Penta-Furans | * | | NotFnd | 0.96 | * | | 2.50 | 467 | 877 | 1.30 | 0 |
| Total Hexa-Furans | * | | NotFnd | 1.16 | * | | 2.50 | 540 | 416 | 1.17 | 0 |
| Total Hepta-Furans | * | | NotFnd | 1.36 | * | | 2.50 | 552 | 520 | 2.11 | 0 |

Analyst: 

Date: 5/19/11

Totals class: Total Hepta-Dioxins

Entry #: 41

Run: 17

File: 18MAY11Z

S: 11 I: 1 F: 4

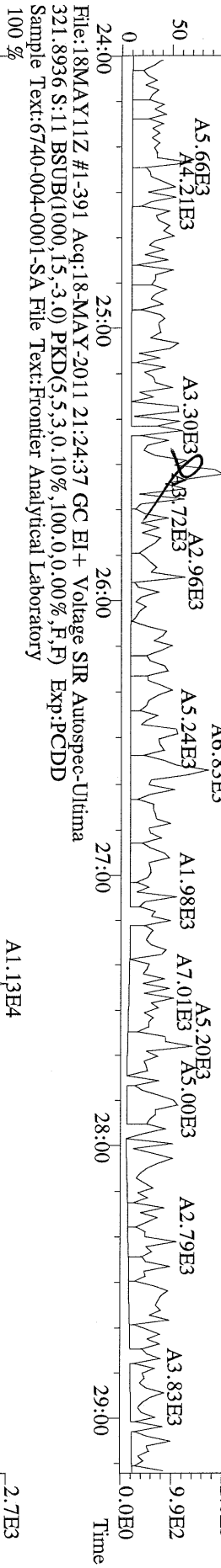
Acquired: 18-MAY-11 21:24:37

Total Concentration: 13.7

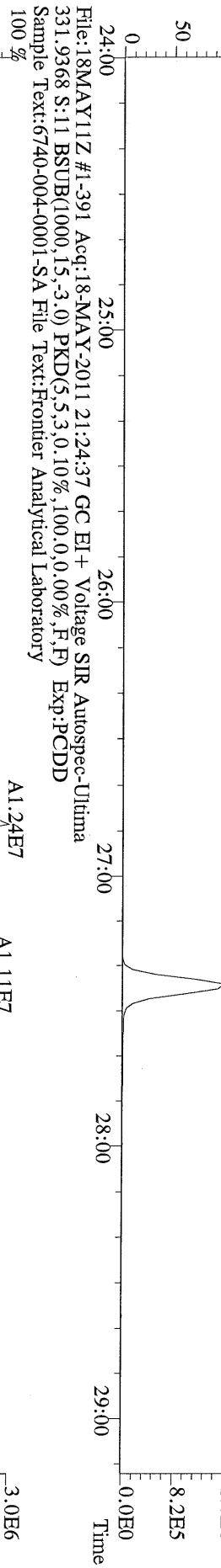
Unnamed Concentration: 6.607

| RT | ml Resp | m2 Resp | RA | Resp | Concentration | Name |
|-------|----------|----------|--------|----------|---------------|---------------------|
| 42:49 | 2.00e+04 | 2.01e+04 | 0.99 y | 4.01e+04 | 6.61 | |
| 44:12 | 2.05e+04 | 2.23e+04 | 0.92 y | 4.28e+04 | 7.05 | 1,2,3,4,6,7,8-HpCDD |

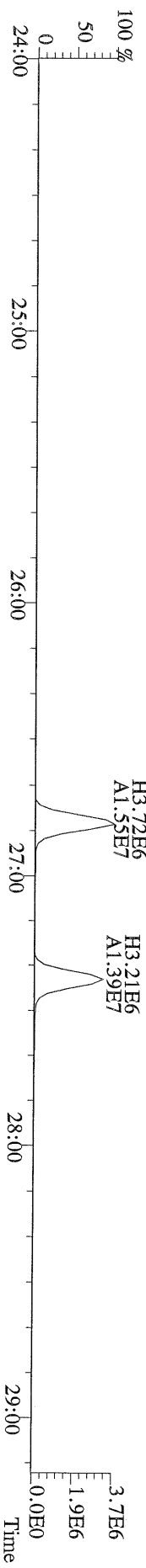
File:18MAY11Z #1-391 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
 319.8965 S:11 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



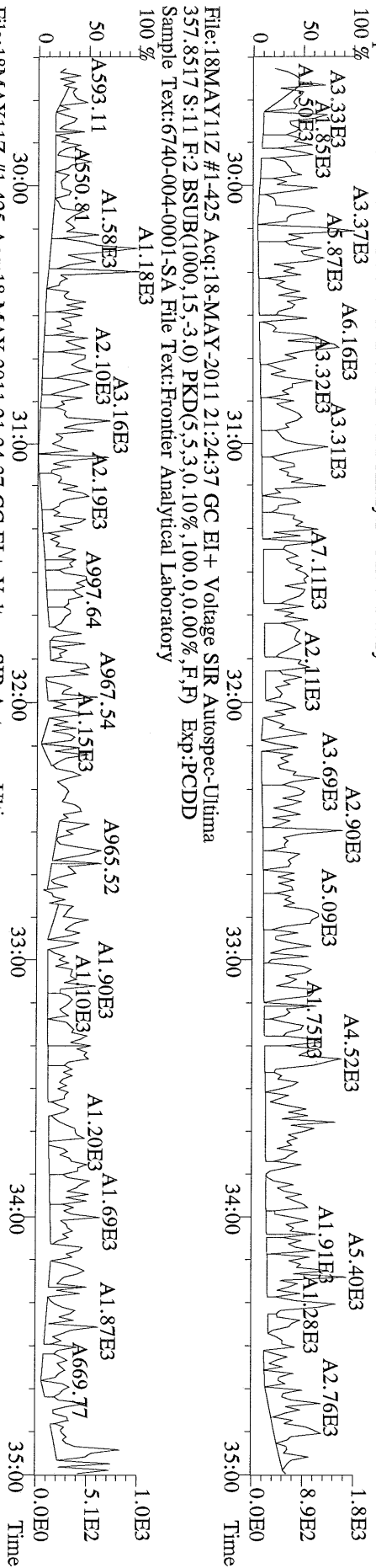
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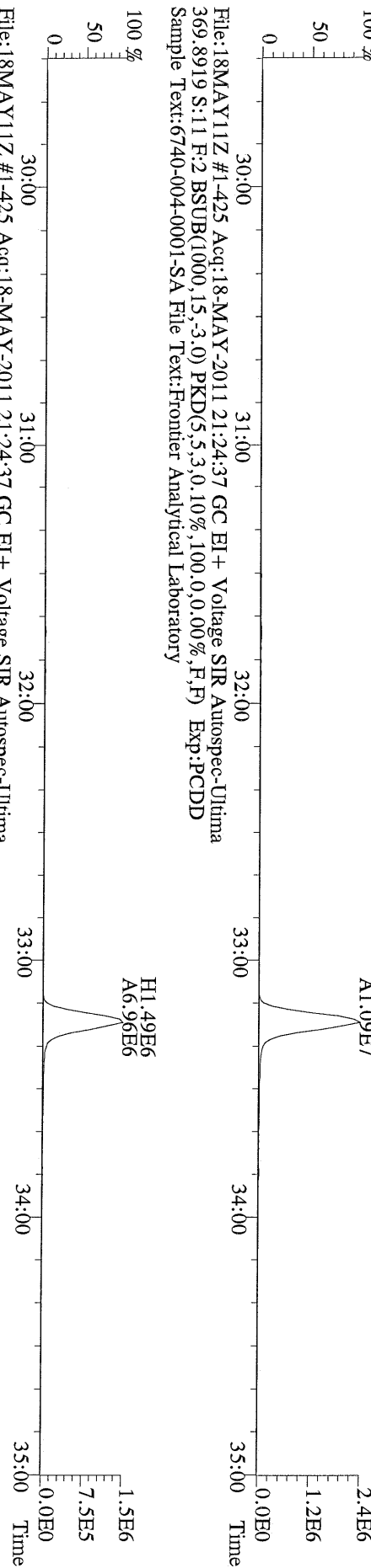
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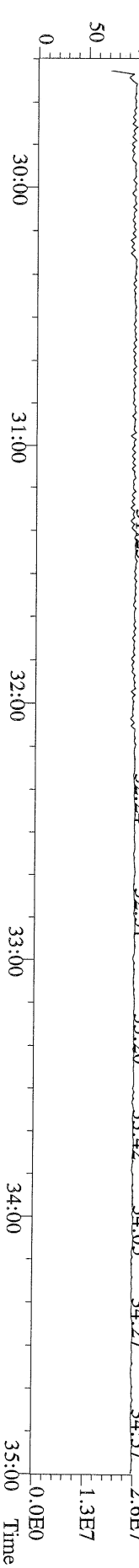
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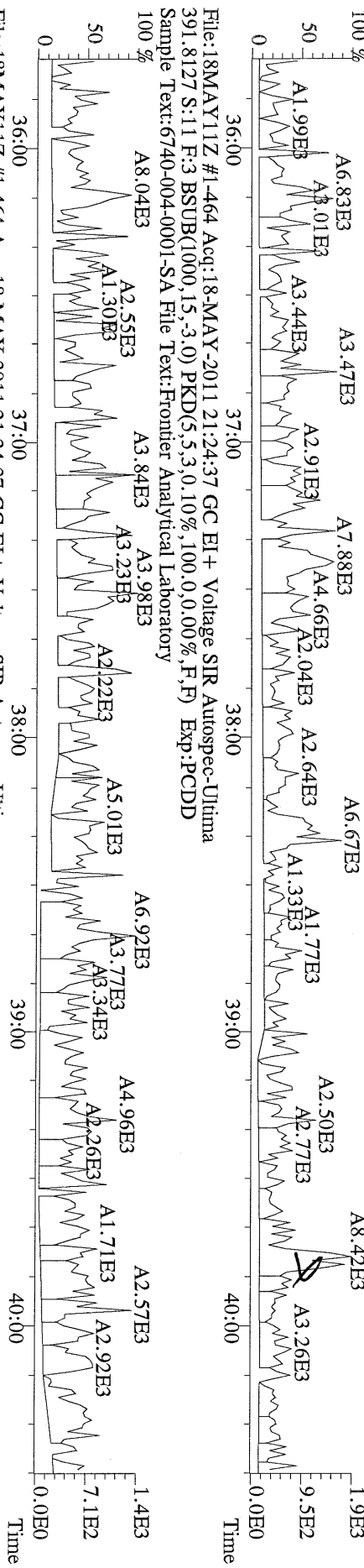
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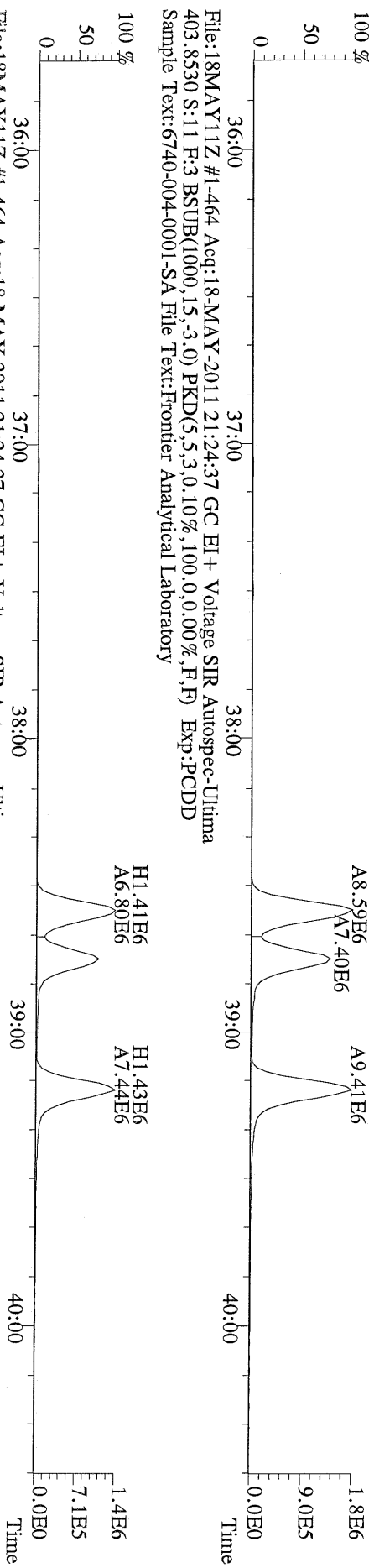
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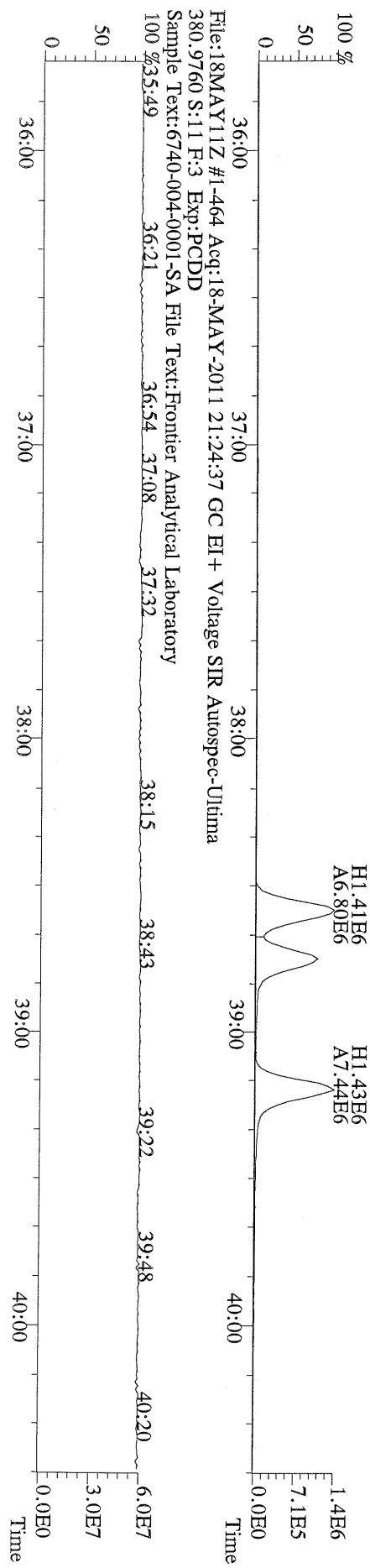
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 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-464 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
 401.8559 S:11 F:3 BSUB(1000,15,-3.0) PKD(5,5,3,0,10%,100,0,0,00%,F,F) Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-464 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
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 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory



File:18MAY11Z #1-464 Acq:18-MAY-2011 21:24:37 GC EI + Voltage SIR Autospec-Ultima
 380.9760 S:11 F:3 Exp:PCDD
 Sample Text:6740-004-0001-SA File Text:Frontier Analytical Laboratory

