

October 27, 2010

**TestAmerica Project Number: G0J090500**  
PO/Contract: 2027.07

Ted Splitter  
Tronox LLC / AIU Henderson, NV  
PO Box 268859  
Oklahoma City, OK 73126-8859

Dear Mr. Splitter,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on October 9, 2010. These samples are associated with your Tronox Henderson Air Monitoring project.

The test results in this report meet all NELAC requirements for parameters that accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916) 374-4383.

Sincerely,



DAVID R. ALLTUCKER  
Project Manager

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## Case Narrative

### TestAmerica West Sacramento Project Number G0J090500

#### **AIR, TO-13, Semivolatile Organics**

Samples: 7, 8

The surrogate recoveries for 1,2-Dichlorobenzene-d4 were low and outside criteria. However, the surrogate recoveries in the associated method blank was within established control limits. The results may be biased low. The matrix effect was confirmed by re-analysis.

#### **AIR, TO-9, Dioxins/Furans**

Samples: 9, 10

Several analytes in each sample have been qualified with a "Q" flag due to the ion abundance ratios being outside of criteria. The analytes have been reported as an "estimated maximum possible concentration" (EMPC) because the quantitation is based on the theoretical ion abundance ratio for these analytes.

The result for 2, 3, 7, 8-TCDF is reported from the confirmation analysis that occurred on October 18, 2010.

There were no other anomalies associated with this project.

**TestAmerica Laboratories West Sacramento Certifications/Accreditations**

| Certifying State | Certificate # | Certifying State   | Certificate #    |
|------------------|---------------|--------------------|------------------|
| Alaska           | UST-055       | New York*          | 11666            |
| Arizona          | AZ0708        | Oregon*            | CA 200005        |
| Arkansas         | 88-0691       | Pennsylvania       | 68-1272          |
| California*      | 01119CA       | South Carolina     | 87014            |
| Colorado         | NA            | Texas              | T104704399-08-TX |
| Connecticut      | PH-0691       | Utah*              | QUAN1            |
| Florida*         | E87570        | Virginia           | 00178            |
| Georgia          | 960           | Washington         | C1281            |
| Hawaii           | NA            | West Virginia      | 9930C, 334       |
| Illinois         | 200060        | Wisconsin          | 998204680        |
| Kansas*          | E-10375       | NFESC              | NA               |
| Louisiana*       | 30612         | USACE              | NA               |
| Michigan         | 9947          | USDA Foreign Plant | 37-82605         |
| Nevada           | CA44          | USDA Foreign Soil  | P330-09-00055    |
| New Jersey*      | CA005         | US Fish & Wildlife | LE148388-0       |
| New Mexico       | NA            | Guam               | 09-014r          |

\*NELAP accredited. A more detailed parameter list is available upon request. Updated 3/25/2009

**QC Parameter Definitions**

**QC Batch:** The QC batch consists of a set of up to 20 field samples that behave similarly (i.e., same matrix) and are processed using the same procedures, reagents, and standards at the same time.

**Method Blank:** An analytical control consisting of all reagents, which may include internal standards and surrogates, and is carried through the entire analytical procedure. The method blank is used to define the level of laboratory background contamination.

**Laboratory Control Sample and Laboratory Control Sample Duplicate (LCS/LCSD):** An aliquot of blank matrix spiked with known amounts of representative target analytes. The LCS (and LCSD as required) is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects. If an LCSD is performed, it may also be used to evaluate the precision of the process.

**Duplicate Sample (DU):** Different aliquots of the same sample are analyzed to evaluate the precision of an analysis.

**Surrogates:** Organic compounds not expected to be detected in field samples, which behave similarly to target analytes. These are added to every sample within a batch at a known concentration to determine the efficiency of the sample preparation and analytical process.

**Matrix Spike and Matrix Spike Duplicate (MS/MSD):** An MS is an aliquot of a matrix fortified with known quantities of specific compounds and subjected to an entire analytical procedure in order to indicate the appropriateness of the method for a particular matrix. The percent recovery for the respective compound(s) is then calculated. The MSD is a second aliquot of the same matrix as the matrix spike, also spiked, in order to determine the precision of the method.

**Isotope Dilution:** For isotope dilution methods, isotopically labeled analogs (internal standards) of the native target analytes are spiked into the sample at time of extraction. These internal standards are used for quantitation, and monitor and correct for matrix effects. Since matrix effects on method performance can be judged by the recovery of these analogs, there is little added benefit of performing MS/MSD for these methods. MS/MSD are only performed for client or QAPP requirements.

**Control Limits:** The reported control limits are either based on laboratory historical data, method requirements, or project data quality objectives. The control limits represent the estimated uncertainty of the test results.

## Sample Summary

### TestAmerica West Sacramento Project Number G0J090500

| <u>WO#</u> | <u>Sample #</u> | <u>Client Sample ID</u> | <u>Sampling Date</u> | <u>Received Date</u> |
|------------|-----------------|-------------------------|----------------------|----------------------|
| L78V9      | 1               | UW-10052010B            | 10/05/2010 16:14 PM  | 10/09/2010 09:35 AM  |
| L78WA      | 2               | DW-10052010B            | 10/05/2010 15:49 PM  | 10/09/2010 09:35 AM  |
| L78WC      | 3               | UW-10062010B            | 10/06/2010 16:55 PM  | 10/09/2010 09:35 AM  |
| L78WD      | 4               | DW-10062010B            | 10/06/2010 16:28 PM  | 10/09/2010 09:35 AM  |
| L78WE      | 5               | DW-10072010B            | 10/07/2010 18:07 PM  | 10/09/2010 09:35 AM  |
| L78WF      | 6               | UW-10072010B            | 10/07/2010 16:03 PM  | 10/09/2010 09:35 AM  |
| L78WG      | 7               | DW-10072010B            | 10/07/2010 18:19 PM  | 10/09/2010 09:35 AM  |
| L78WH      | 8               | UW-10072010B            | 10/07/2010 16:03 PM  | 10/09/2010 09:35 AM  |
| L78WJ      | 9               | DW-10072010B            | 10/07/2010 18:14 PM  | 10/09/2010 09:35 AM  |
| L78WK      | 10              | UW-10072010B            | 10/05/2010 16:03 PM  | 10/09/2010 09:35 AM  |

#### Notes(s):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity, pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

| <b>Required Ship to Lab:</b><br>Lab Name: Test America Laboratories Inc<br>Address: 880 Riverside Parkway<br>West Sacramento, CA 95606<br>Lab P/N: David Allrecher<br>Phone/Fax: (916) 373-8600<br>Lab PM email: David.Allrecher@testamena.com<br>Applicable Lab Quote #: |   | <b>Required Project Information:</b><br>Site ID #: 102<br>Project #: 2027.07<br>Site Address: 890 W Lala Mead Pkwy<br>City: Henderson<br>State: NV<br>Zip: 89018<br>Site PM Name: Ted Spitzer<br>Phone/Fax: (810) 438-4009<br>Site PM Email: Ted.Spitzer@ngem.com |             | <b>Required Invoice Information:</b><br>Send invoice to: Susan Crowley Trenox LLC.<br>Address: PO Box 56<br>Henderson, NV 89008<br>Phone #: (949) 280-9233<br>PO #: |             | Total # of Samples: 10<br>Event Completed? |             |                |  |                     |                  |     |              |            |                 |                |             |
|---|---|---|-------------|---|-------------|--|-------------|----------------|--|---------------------|------------------|-----|--------------|------------|-----------------|----------------|-------------|
| <b>Required Project Information:</b><br>Site ID #: 102<br>Project #: 2027.07<br>Site Address: 890 W Lala Mead Pkwy<br>City: Henderson<br>State: NV<br>Zip: 89018<br>Site PM Name: Ted Spitzer<br>Phone/Fax: (810) 438-4009<br>Site PM Email: Ted.Spitzer@ngem.com         |   | <b>Required Invoice Information:</b><br>Send invoice to: Susan Crowley Trenox LLC.<br>Address: PO Box 56<br>Henderson, NV 89008<br>Phone #: (949) 280-9233<br>PO #:   |             | Total # of Samples: 10<br>Event Completed?  |             | Regular<br>Rush<br>5 day<br>Mark One       |             |                |  |                     |                  |     |              |            |                 |                |             |
| ITEM #  | SAMPLE ID<br>Samples IDs MUST BE UNIQUE | SAMPLE LOCATION   | MATRIX CODE | G-RAB C-COMP  | SAMPLE TYPE | SAMPLE DATE                                | SAMPLE TIME | #OF CONTAINERS | Comments/Lab Sample I.D.<br>Volume (m <sup>3</sup> ) | TO-G/VD/Kids, Furns | TO-13A/B270C/HCB | TSP | 8020A/B/CPMS | Temp in OC | Samples on Ice? | Sample Intact? | Trip Blank? |
|   | UW-10052010B                            |   | AA          |   |             | 10/5/2010                                  | 4:14 PM     | 1              | 539.09   |                     | X                | X   |              |            |                 |                |             |
|   | DW-10052010B                            |   | AA          |   |             | 10/5/2010                                  | 3:49 PM     | 1              | 570.57   |                     | X                | X   |              |            |                 |                |             |
|   | UW-10082010B                            |   | AA          |   |             | 10/6/2010                                  | 4:55 PM     | 1              | 818.4  |                     | X                | X   |              |            |                 |                |             |
|   | DW-10082010B                            |   | AA          |   |             | 10/6/2010                                  | 4:28 PM     | 1              | 829.25   |                     | X                | X   |              |            |                 |                |             |
|   | DW-10072010B                            |   | AA          |   |             | 10/7/2010                                  | 6:07 PM     | 1              | 868.82   |                     | X                | X   |              |            |                 |                |             |
|   | UW-10072010B                            |   | AA          |   |             | 10/7/2010                                  | 4:03 PM     | 1              | 840.5  |                     | X                | X   |              |            |                 |                |             |
|   | DW-10072010B                            |   | AA          |   |             | 10/7/2010                                  | 8:19 PM     | 1              | 631.33   |                     | X                | X   |              |            |                 |                |             |
|   | DW-10072010B                            |   | AA          |   |             | 10/7/2010                                  | 6:14 PM     | 1              | 626.51   |                     | X                | X   |              |            |                 |                |             |
|   | UW-10072010B                            |   | AA          |   |             | 10/7/2010                                  | 4:03 PM     | 1              | 590.85   |                     | X                | X   |              |            |                 |                |             |
|   | UW-10072010B                            |   | AA          |   |             | 10/7/2010                                  | 4:03 PM     | 1              | 555.57   |                     | X                | X   |              |            |                 |                |             |
| Additional Comments/Special Instructions: 5-day turnaround<br>10/4/10/100 B270C/HCB TPL WS<br>10-10-1125  |   |   |             |   |             |  |             |                |  |                     |                  |     |              |            |                 |                |             |
| Signature of Sampletaker: David Allrecher<br>Signature of Sampletaker: David Allrecher<br>Date: 10/3/10<br>Time: 1400   |   |   |             |   |             |  |             |                |  |                     |                  |     |              |            |                 |                |             |

CLIENT Northgate PM 08 LOG # 67483  
LOT# (QUANTIMS ID) G0J090500 QUOTE# 84087 LOCATION W14D AC  
DATE RECEIVED 10-9-10 TIME RECEIVED 935 Checked (✓)   
DELIVERED BY  FEDEX  ON TRAC  CLIENT  
 GOLDENSTATE  UPS  GO-GETTERS  OTHER  
 TAL COURIER  TAL SF  VALLEY LOGISTICS   
CUSTODY SEAL STATUS  INTACT  BROKEN  N/A   
CUSTODY SEAL #(S) 764101, 764102  
SHIPPING CONTAINER(S)  TAL  CLIENT  N/A   
COC #(S) 2027.07.0010   
TEMPERATURE BLANK Observed: N/A Corrected: N/A  
SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)  
Observed: 56.7 Average 6 Corrected Average 6  
**LABORATORY THERMOMETER ID:**  
IR UNIT: #4  #5  OTHER

Bj   
Initials Date 10-9-10

=====

pH MEASURED  YES  ANOMALY  N/A   
LABELED BY.....   
LABELS CHECKED BY.....   
PEER REVIEW  NA   
SHORT HOLD TEST NOTIFICATION  SAMPLE RECEIVING   
WETCHEM  N/A   
VOA-ENCORES  N/A   
 METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A   
 COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH  N/A   
APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  
 CLOUSEAU  TEMPERATURE EXCEEDED (2 °C – 6 °C)\*1  N/A   
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED  
AK 10-9-10  
Initials Date

Notes \_\_\_\_\_  
\_\_\_\_\_

\*1 Acceptable temperature range for State of Wisconsin samples is ≤4°C.

Lot ID: 605090500

|               | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|---------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| VOA*          | / | / | / | / | / | / | / | / | / | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  |
| VOAh*         | / | / | / | / | / | / | / | / | / | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  | /  |
| AGB           |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| AGBs          |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 250AGB        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 250AGBs       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 250AGBn       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 500AGB        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| ___AGJ        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 500AGJ        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 250AGJ        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 125AGJ        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| ___CGJ        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 500CGJ        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 250CGJ        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 125CGJ        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| PJ            |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| PJn           |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 500PJ         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 500PJn        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 500PJna       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 500PJzn/na    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 250PJ         |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 250PJn        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 250PJna       |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| 250PJzn/na    |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Acetate Tube  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| ___"CT        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Encore        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Folder/filter |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| PUF           |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Petri/Filter  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| XAD Trap      |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |
| Ziploc        |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

h = hydrochloric acid    s = sulfuric acid    na = sodium hydroxide    n = nitric acid    zn = zinc acetate

Number of VOAs with air bubbles present / total number of VOA's



# AIR, Metals

Northgate Environmental Management, Inc.

Sample ID: UW-10052010B

Trace Level Compounds

|                      |                 |                    |             |                      |            |
|----------------------|-----------------|--------------------|-------------|----------------------|------------|
| Lot - Sample #....:  | G0J090500 - 001 | Work Order #....:  | L78V91AC    | Matrix....:          | AA         |
| Date Sampled....:    | 10/05/10        | Date Received....: | 10/09/10    | Dilution Factor....: | 1          |
| Prep Date....:       | 10/14/10        | Analysis Date....: | 10/14/10    | Volume....:          | 539.09     |
| Prep Batch # ....:   | 0287352         | Instrument ID....: | M02         | Method....:          | SW846 6020 |
| Initial Wgt/Vol....: | 0.08333 L       | Analyst ID....:    | Brian Jones |                      |            |

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|------------------------|------------------------|--------------|
| Arsenic          | ND            | 0.0045                 | 0.00091                | ug/m3        |
| Manganese        | 0.771 J       | 0.00223                | 0.000315               | ug/m3        |

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: DW-10052010B

Trace Level Compounds

Lot - Sample #....: G0J090500 - 002  
Date Sampled....: 10/05/10  
Prep Date....: 10/14/10  
Prep Batch # ....: 0287352  
Initial Wgt/Vol....: 0.08333 L

Work Order #....: L78WA1AC  
Date Received....: 10/09/10  
Analysis Date....: 10/14/10  
Instrument ID....: M02  
Analyst ID....: Brian Jones

Matrix....: AA  
Dilution Factor....: 1  
Volume....: 570.57  
Method....: SW846 6020

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|------------------------|------------------------|--------------|
| Arsenic          | ND            | 0.0042                 | 0.00086                | ug/m3        |
| Manganese        | 0.130 J       | 0.00210                | 0.000298               | ug/m3        |

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-10062010B

Trace Level Compounds

|                      |                 |                    |             |                      |            |
|----------------------|-----------------|--------------------|-------------|----------------------|------------|
| Lot - Sample #....:  | G0J090500 - 003 | Work Order #....:  | L78WC1AC    | Matrix....:          | AA         |
| Date Sampled....:    | 10/06/10        | Date Received....: | 10/09/10    | Dilution Factor....: | 1          |
| Prep Date....:       | 10/14/10        | Analysis Date....: | 10/14/10    | Volume....:          | 818.4      |
| Prep Batch # ....:   | 0287352         | Instrument ID....: | M02         | Method....:          | SW846 6020 |
| Initial Wgt/Vol....: | 0.08333 L       | Analyst ID....:    | Brian Jones |                      |            |

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|------------------------|------------------------|--------------|
| Arsenic          | ND            | 0.0029                 | 0.00060                | ug/m3        |
| Manganese        | 1.12 J        | 0.00147                | 0.000208               | ug/m3        |

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: DW-10062010B

Trace Level Compounds

|                      |                 |                    |             |                      |            |
|----------------------|-----------------|--------------------|-------------|----------------------|------------|
| Lot - Sample #....:  | G0J090500 - 004 | Work Order #....:  | L78WD1AC    | Matrix....:          | AA         |
| Date Sampled....:    | 10/06/10        | Date Received....: | 10/09/10    | Dilution Factor....: | 1          |
| Prep Date....:       | 10/14/10        | Analysis Date....: | 10/14/10    | Volume....:          | 829.25     |
| Prep Batch # ....:   | 0287352         | Instrument ID....: | M02         | Method....:          | SW846 6020 |
| Initial Wgt/Vol....: | 0.08333 L       | Analyst ID....:    | Brian Jones |                      |            |

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|------------------------|------------------------|--------------|
| Arsenic          | ND            | 0.0029                 | 0.00059                | ug/m3        |
| Manganese        | 0.320 J       | 0.00145                | 0.000205               | ug/m3        |

QUALIFIERS

J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: DW-10072010B

Trace Level Compounds

|                      |                 |                    |             |                      |            |
|----------------------|-----------------|--------------------|-------------|----------------------|------------|
| Lot - Sample #....:  | G0J090500 - 005 | Work Order #....:  | L78WE1AC    | Matrix....:          | AA         |
| Date Sampled....:    | 10/07/10        | Date Received....: | 10/09/10    | Dilution Factor....: | 1          |
| Prep Date....:       | 10/14/10        | Analysis Date....: | 10/14/10    | Volume....:          | 958.82     |
| Prep Batch # ....:   | 0287352         | Instrument ID....: | M02         | Method....:          | SW846 6020 |
| Initial Wgt/Vol....: | 0.08333 L       | Analyst ID....:    | Brian Jones |                      |            |

| <u>PARAMETER</u> | <u>RESULT</u> |   | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|---|------------------------|------------------------|--------------|
| Arsenic          | 0.00061       | B | 0.0025                 | 0.00051                | ug/m3        |
| Manganese        | 0.144         | J | 0.00125                | 0.000177               | ug/m3        |

QUALIFIERS

- B Estimated result. Result is less than RL and greater than or equal to the IDL.
- J Estimated Result.

Northgate Environmental Management, Inc.

Sample ID: UW-10072010B

Trace Level Compounds

|                      |                 |                    |             |                      |            |
|----------------------|-----------------|--------------------|-------------|----------------------|------------|
| Lot - Sample #....:  | G0J090500 - 006 | Work Order #....:  | L78WF1AC    | Matrix....:          | AA         |
| Date Sampled....:    | 10/07/10        | Date Received....: | 10/09/10    | Dilution Factor....: | 1          |
| Prep Date....:       | 10/14/10        | Analysis Date....: | 10/14/10    | Volume....:          | 840.5      |
| Prep Batch # ....:   | 0287352         | Instrument ID....: | M02         | Method....:          | SW846 6020 |
| Initial Wgt/Vol....: | 0.08333 L       | Analyst ID....:    | Brian Jones |                      |            |

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|------------------------|------------------------|--------------|
| Arsenic          | ND            | 0.0029                 | 0.00058                | ug/m3        |
| Manganese        | 0.636 J       | 0.00143                | 0.000202               | ug/m3        |

QUALIFIERS

J Estimated Result.

**Method Blank Report**

**Trace Level Compounds**

**Lot - Sample #....:** G0J140000 - 352B  
**Date Sampled....:** 10/05/10  
**Prep Date....:** 10/14/10  
**Prep Batch # ....:** 0287352  
**Initial Wgt/Vol....:** 0.08333 L

**Work Order #....:** L8GKN1AA  
**Date Received....:** 10/09/10  
**Analysis Date....:** 10/14/10  
**Instrument ID....:** M02  
**Analyst ID....:** Brian Jones

**Matrix....:** AIR  
**Dilution Factor....:** 1  
**Volume....:** 0  
**Method....:** SW846 6020

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|------------------------|------------------------|--------------|
| Arsenic          | ND            | 2.4                    | 0.49                   | ug           |
| Manganese        | 0.27      B   | 1.2                    | 0.17                   | ug           |

**QUALIFIERS**

B      Estimated result. Result is less than RL and greater than or equal to the IDL.



**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

|  |                                       |                                |
|--|---------------------------------------|--------------------------------|
| <b>Client Lot # ...:</b> G0J090500       | <b>Work Order # ...:</b> L8GKN1AD-LCS | <b>Matrix .....</b> : AIR      |
| <b>LCS Lot-Sample# :</b> G0J140000 - 352 | L8GKN1AE-LCSD                         |                                |
| <b>Prep Date .....</b> : 10/14/10        | <b>Analysis Date ..:</b> 10/14/10     |                                |
| <b>Prep Batch # ...:</b> 0287352         |                                       |                                |
| <b>Dilution Factor :</b> 1               |                                       |                                |
| <b>Analyst ID.....:</b> Brian Jones      | <b>Instrument ID.:</b> M02            | <b>Method.....:</b> SW846 6020 |
| <b>Initial Wgt/Vol:</b> 0.08333 L        |                                       |                                |

| <u>PARAMETER</u> | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u>   | <u>RPD LIMITS</u> |
|------------------|---------------------|------------------------|--------------|-------------------------|------------------------|--------------|-------------------|
| <b>Arsenic</b>   | <b>240</b>          | <b>219</b>             | <b>ug</b>    | <b>91</b>               | <b>(86 - 110)</b>      |              |                   |
|                  | <b>240</b>          | <b>219</b>             | <b>ug</b>    | <b>91</b>               | <b>(86 - 110)</b>      | <b>0.010</b> | <b>(0 - 15)</b>   |
| <b>Manganese</b> | <b>240</b>          | <b>228</b>             | <b>ug</b>    | <b>95</b>               | <b>(88 - 110)</b>      |              |                   |
|                  | <b>240</b>          | <b>233</b>             | <b>ug</b>    | <b>97</b>               | <b>(88 - 110)</b>      | <b>2.4</b>   | <b>(0 - 15)</b>   |

**Notes:**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

# AIR, TSP

Northgate Environmental Management, Inc.

Sample ID: UW-10052010B

Trace Level Compounds

|                      |                 |                    |                |                      |               |
|----------------------|-----------------|--------------------|----------------|----------------------|---------------|
| Lot - Sample #....:  | G0J090500 - 001 | Work Order #....:  | L78V91AA       | Matrix....:          | AA            |
| Date Sampled....:    | 10/05/10        | Date Received....: | 10/09/10       | Dilution Factor....: | 1             |
| Prep Date....:       | 10/13/10        | Analysis Date....: | 10/14/10       | Volume....:          | 539.09        |
| Prep Batch # ....:   | 0287426         | Instrument ID....: | QA-45          | Method....:          | CFR50B APDX B |
| Initial Wgt/Vol....: | 0               | Analyst ID....:    | Steve Valmores |                      |               |

| <u>PARAMETER</u>             | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------------------|---------------|------------------------|------------------------|--------------|
| Total Suspended Particulates | 0.0000249     | 0.000000927            | -                      | g/m3         |

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-10052010B

Trace Level Compounds

|                      |                 |                    |                |                      |               |
|----------------------|-----------------|--------------------|----------------|----------------------|---------------|
| Lot - Sample #....:  | G0J090500 - 002 | Work Order #....:  | L78WA1AA       | Matrix....:          | AA            |
| Date Sampled....:    | 10/05/10        | Date Received....: | 10/09/10       | Dilution Factor....: | 1             |
| Prep Date....:       | 10/13/10        | Analysis Date....: | 10/14/10       | Volume....:          | 570.57        |
| Prep Batch # ....:   | 0287426         | Instrument ID....: | QA-45          | Method....:          | CFR50B APDX B |
| Initial Wgt/Vol....: |                 | Analyst ID....:    | Steve Valmores |                      |               |

| <u>PARAMETER</u>             | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------------------|---------------|------------------------|------------------------|--------------|
| Total Suspended Particulates | 0.0000224     | 0.000000876            | --                     | g/m3         |

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-10062010B

Trace Level Compounds

|                                     |                                |                           |
|-------------------------------------|--------------------------------|---------------------------|
| Lot - Sample #....: G0J090500 - 003 | Work Order #....: L78WC1AA     | Matrix....: AA            |
| Date Sampled....: 10/06/10          | Date Received....: 10/09/10    | Dilution Factor....: 1    |
| Prep Date....: 10/13/10             | Analysis Date....: 10/14/10    | Volume....: 818.4         |
| Prep Batch # ....: 0287426          | Instrument ID....: QA-45       | Method....: CFR50B APDX B |
| Initial Wgt/Vol....:                | Analyst ID....: Steve Valmores |                           |

| <u>PARAMETER</u>             | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------------------|---------------|------------------------|------------------------|--------------|
| Total Suspended Particulates | 0.0000312     | 0.000000611            | --                     | g/m3         |

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-10062010B

Trace Level Compounds

|                      |                 |                    |                |                      |               |
|----------------------|-----------------|--------------------|----------------|----------------------|---------------|
| Lot - Sample #....:  | G0J090500 - 004 | Work Order #....:  | L78WD1AA       | Matrix....:          | AA            |
| Date Sampled....:    | 10/06/10        | Date Received....: | 10/09/10       | Dilution Factor....: | 1             |
| Prep Date....:       | 10/13/10        | Analysis Date....: | 10/14/10       | Volume....:          | 829.25        |
| Prep Batch # ....:   | 0287426         | Instrument ID....: | QA-45          | Method....:          | CFR50B APDX B |
| Initial Wgt/Vol....: |                 | Analyst ID....:    | Steve Valmores |                      |               |

| <u>PARAMETER</u>             | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------------------|---------------|------------------------|------------------------|--------------|
| Total Suspended Particulates | 0.0000433     | 0.00000603             | --                     | g/m3         |

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: DW-10072010B

Trace Level Compounds

|                      |                 |                    |                |                      |               |
|----------------------|-----------------|--------------------|----------------|----------------------|---------------|
| Lot - Sample #....:  | G0J090500 - 005 | Work Order #....:  | L78WE1AA       | Matrix....:          | AA            |
| Date Sampled....:    | 10/07/10        | Date Received....: | 10/09/10       | Dilution Factor....: | 1             |
| Prep Date....:       | 10/13/10        | Analysis Date....: | 10/14/10       | Volume....:          | 958.82        |
| Prep Batch # ....:   | 0287426         | Instrument ID....: | QA-45          | Method....:          | CFR50B APDX B |
| Initial Wgt/Vol....: |                 | Analyst ID....:    | Steve Valmores |                      |               |

| <u>PARAMETER</u>             | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------------------|---------------|------------------------|------------------------|--------------|
| Total Suspended Particulates | 0.0000362     | 0.000000521            | --                     | g/m3         |

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: UW-10072010B

Trace Level Compounds

|                                     |                                |                           |
|-------------------------------------|--------------------------------|---------------------------|
| Lot - Sample #....: G0J090500 - 006 | Work Order #....: L78WF1AA     | Matrix....: AA            |
| Date Sampled....: 10/07/10          | Date Received....: 10/09/10    | Dilution Factor....: 1    |
| Prep Date....: 10/13/10             | Analysis Date....: 10/14/10    | Volume....: 840.5         |
| Prep Batch # ....: 0287426          | Instrument ID....: QA-45       | Method....: CFR50B APDX B |
| Initial Wgt/Vol....:                | Analyst ID....: Steve Valmores |                           |

| <u>PARAMETER</u>             | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------------------|---------------|------------------------|------------------------|--------------|
| Total Suspended Particulates | 0.0000385     | 0.000000595            | --                     | g/m3         |

QUALIFIERS



# QC DATA ASSOCIATION SUMMARY

G0J090500

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
| 002            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
| 003            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
| 004            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
| 005            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
| 006            | AA            | CFR50B APDX B                |                          | 0287426                 |                |

# AIR, TO-9, Dioxins/Furans

Northgate Environmental Management, Inc.

Sample ID: DW-10072010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: GOJ090500 - 007  
 Date Sampled....: 10/07/10  
 Prep Date....: 10/11/10  
 Prep Batch # ....: 0284223  
 Initial Wgt/Vol : 1 Sample

Work Order #....: L78WG1AA  
 Date Received....: 10/09/10  
 Analysis Date....: 10/15/10  
 Dilution Factor....: 2  
 Analyst ID....: Susan X. Yan

Matrix....: AA  
 Instrument ID....: 4D5  
 Volume....: 631.33  
 Units.....: pg/m3

| PARAMETER                      | RESULT  | REPORTING LIMIT | TEF FACTOR | TEQ CONCENTRATION |
|--------------------------------|---------|-----------------|------------|-------------------|
| 2,3,7,8-TCDD                   | 5.1 J Q | 20              | 1.0        | 0.0081            |
| Total TCDD                     | 150     | 20              |            |                   |
| 1,2,3,7,8-PeCDD                | 18 J    | 100             | 1.0        | 0.029             |
| Total PeCDD                    | 160     | 100             |            |                   |
| 1,2,3,4,7,8-HxCDD              | 12 J    | 100             | 0.1        | 0.0019            |
| 1,2,3,6,7,8-HxCDD              | 22 J B  | 100             | 0.1        | 0.0035            |
| 1,2,3,7,8,9-HxCDD              | 20 J    | 100             | 0.1        | 0.0032            |
| Total HxCDD                    | 160     | 100             |            |                   |
| 1,2,3,4,6,7,8-HpCDD            | 85 J    | 100             | 0.01       | 0.0013            |
| Total HpCDD                    | 130     | 100             |            |                   |
| OCDD                           | 92 J B  | 200             | 0.0003     | 0.000044          |
| 2,3,7,8-TCDF                   | 100 CON | 20              | 0.1        | 0.016             |
| Total TCDF                     | 1300    | 20              |            |                   |
| 1,2,3,7,8-PeCDF                | 190     | 100             | 0.03       | 0.0090            |
| 2,3,4,7,8-PeCDF                | 100     | 100             | 0.3        | 0.048             |
| Total PeCDF                    | 1400    | 100             |            |                   |
| 1,2,3,4,7,8-HxCDF              | 260 B   | 100             | 0.1        | 0.041             |
| 1,2,3,6,7,8-HxCDF              | 260 B   | 100             | 0.1        | 0.041             |
| 2,3,4,6,7,8-HxCDF              | 69 J    | 100             | 0.1        | 0.011             |
| 1,2,3,7,8,9-HxCDF              | 38 J    | 100             | 0.1        | 0.0060            |
| Total HxCDF                    | 1900    | 100             |            |                   |
| 1,2,3,4,6,7,8-HpCDF            | 1000 B  | 100             | 0.01       | 0.016             |
| 1,2,3,4,7,8,9-HpCDF            | 420     | 100             | 0.01       | 0.0067            |
| Total HpCDF                    | 2100    | 100             |            |                   |
| OCDF                           | 2500    | 200             | 0.0003     | 0.0012            |
| <b>Total TEQ Concentration</b> |         |                 |            | <b>0.24</b>       |

Northgate Environmental Management, Inc.

Sample ID: DW-10072010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J090500 - 007  
Date Sampled....: 10/07/10  
Prep Date....: 10/11/10  
Prep Batch # ....: 0284223  
Initial Wgt/Vol : 1 Sample

Work Order #....: L78WG1AA  
Date Received....: 10/09/10  
Analysis Date....: 10/15/10  
Dilution Factor....: 2  
Analyst ID....: Susan X. Yan

Matrix....: AA  
Instrument ID....: 4D5  
Volume....: 631.33  
Units.....: pg/m3

| <u>INTERNAL STANDARDS</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|---------------------------|-------------------------|------------------------|
| 13C-2,3,7,8-TCDD          | 101                     | 50 - 120               |
| 13C-1,2,3,7,8-PeCDD       | 99                      | 50 - 120               |
| 13C-1,2,3,6,7,8-HxCDD     | 97                      | 50 - 120               |
| 13C-1,2,3,4,6,7,8-HpCDD   | 94                      | 40 - 120               |
| 13C-OCDD                  | 85                      | 40 - 120               |
| 13C-2,3,7,8-TCDF          | 102                     | 50 - 120               |
| 13C-1,2,3,7,8-PeCDF       | 110                     | 50 - 120               |
| 13C-1,2,3,4,7,8-HxCDF     | 90                      | 50 - 120               |
| 13C-1,2,3,4,6,7,8-HpCDF   | 91                      | 40 - 120               |

| <u>SURROGATE</u>   | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|--------------------|-------------------------|------------------------|
| 37Cl4-2,3,7,8-TCDD | 103                     | 50 - 120               |

**QUALIFIERS**

Results and reporting limits have been adjusted for dry weight.

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- CON Confirmation analysis.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: DW-10072010B

Trace Level Compounds

Lot - Sample #....: GOJ090500 - 007  
 Date Sampled....: 10/07/10  
 Prep Date.....: 10/11/10  
 Prep Batch # ....: 0284223  
 Initial Wgt/Vol....: 1 Sample

Work Order #....: L78WG1AA  
 Date Received....: 10/09/10  
 Analysis Date....: 10/15/10  
 Instrument ID....: 4D5  
 Analyst ID.....: Susan X. Yan

Matrix.....: AA  
 Dilution Factor....: 2  
 Volume.....: 631.33  
 Method.....: EPA-2 TO-9

| PARAMETER           | RESULT |     | REPORTING LIMIT | DETECTION LIMIT | UNITS |
|---------------------|--------|-----|-----------------|-----------------|-------|
| 2,3,7,8-TCDD        | 0.0081 | J Q | 0.032           | 0.0032          | pg/m3 |
| Total TCDD          | 0.23   |     | 0.032           | 0.0032          | pg/m3 |
| 1,2,3,7,8-PeCDD     | 0.028  | J   | 0.16            | 0.0076          | pg/m3 |
| Total PeCDD         | 0.26   |     | 0.16            | 0.0076          | pg/m3 |
| 1,2,3,4,7,8-HxCDD   | 0.019  | J   | 0.16            | 0.0035          | pg/m3 |
| 1,2,3,6,7,8-HxCDD   | 0.035  | J B | 0.16            | 0.0030          | pg/m3 |
| 1,2,3,7,8,9-HxCDD   | 0.031  | J   | 0.16            | 0.0030          | pg/m3 |
| Total HxCDD         | 0.26   |     | 0.16            | 0.0032          | pg/m3 |
| 1,2,3,4,6,7,8-HpCDD | 0.13   | J   | 0.16            | 0.0022          | pg/m3 |
| Total HpCDD         | 0.20   |     | 0.16            | 0.0022          | pg/m3 |
| OCDD                | 0.15   | J B | 0.32            | 0.0043          | pg/m3 |
| 2,3,7,8-TCDF        | 0.16   | CON | 0.032           | 0.0024          | pg/m3 |
| Total TCDF          | 2.0    |     | 0.032           | 0.0040          | pg/m3 |
| 1,2,3,7,8-PeCDF     | 0.30   |     | 0.16            | 0.0100          | pg/m3 |
| 2,3,4,7,8-PeCDF     | 0.16   |     | 0.16            | 0.010           | pg/m3 |
| Total PeCDF         | 2.3    |     | 0.16            | 0.010           | pg/m3 |
| 1,2,3,4,7,8-HxCDF   | 0.41   | B   | 0.16            | 0.0068          | pg/m3 |
| 1,2,3,6,7,8-HxCDF   | 0.41   | B   | 0.16            | 0.0065          | pg/m3 |
| 2,3,4,6,7,8-HxCDF   | 0.11   | J   | 0.16            | 0.0068          | pg/m3 |
| 1,2,3,7,8,9-HxCDF   | 0.061  | J   | 0.16            | 0.0076          | pg/m3 |
| Total HxCDF         | 3.0    |     | 0.16            | 0.0070          | pg/m3 |
| 1,2,3,4,6,7,8-HpCDF | 1.6    | B   | 0.16            | 0.0048          | pg/m3 |
| 1,2,3,4,7,8,9-HpCDF | 0.66   |     | 0.16            | 0.0059          | pg/m3 |
| Total HpCDF         | 3.3    |     | 0.16            | 0.0052          | pg/m3 |
| OCDF                | 4.0    |     | 0.32            | 0.0067          | pg/m3 |

INTERNAL STANDARDS

PERCENT RECOVERY

RECOVERY LIMITS

13C-2,3,7,8-TCDD  
 13C-1,2,3,7,8-PeCDD  
 13C-1,2,3,6,7,8-HxCDD  
 13C-1,2,3,4,6,7,8-HpCDD  
 13C-OCDD  
 13C-2,3,7,8-TCDF  
 13C-1,2,3,7,8-PeCDF  
 13C-1,2,3,4,7,8-HxCDF  
 13C-1,2,3,4,6,7,8-HpCDF

101  
 99  
 97  
 94  
 85  
 102  
 110  
 90  
 91

50 - 120  
 50 - 120  
 50 - 120  
 40 - 120  
 40 - 120  
 50 - 120  
 50 - 120  
 50 - 120  
 40 - 120

SURROGATE

PERCENT RECOVERY

RECOVERY LIMITS

37Cl4-2,3,7,8-TCDD

103

50 - 120

**Northgate Environmental Management, Inc.**

**Sample ID: DW-10072010B**

**Trace Level Compounds**

|                             |                 |                           |              |                             |            |
|-----------------------------|-----------------|---------------------------|--------------|-----------------------------|------------|
| <b>Lot - Sample #....:</b>  | G0J090500 - 007 | <b>Work Order #....:</b>  | L78WG1AA     | <b>Matrix....:</b>          | AA         |
| <b>Date Sampled....:</b>    | 10/07/10        | <b>Date Received....:</b> | 10/09/10     | <b>Dilution Factor....:</b> | 2          |
| <b>Prep Date....:</b>       | 10/11/10        | <b>Analysis Date....:</b> | 10/15/10     | <b>Volume....:</b>          | 631.33     |
| <b>Prep Batch # ....:</b>   | 0284223         | <b>Instrument ID....:</b> | 4D5          | <b>Method....:</b>          | EPA-2 TO-9 |
| <b>Initial Wgt/Vol....:</b> | 1 Sample        | <b>Analyst ID....:</b>    | Susan X. Yan |                             |            |

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- CON Confirmation analysis.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: UW-10072010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J090500 - 008  
 Date Sampled....: 10/07/10  
 Prep Date....: 10/11/10  
 Prep Batch # ....: 0284223  
 Initial Wgt/Vol: 1 Sample

Work Order #....: L78WH1AA  
 Date Received....: 10/09/10  
 Analysis Date....: 10/15/10  
 Dilution Factor....: 2  
 Analyst ID....: Susan X. Yan

Matrix....: AA  
 Instrument ID....: 4D5  
 Volume....: 560.85  
 Units.....: pg/m3

| PARAMETER                      | RESULT     |     | REPORTING LIMIT | TEF FACTOR | TEQ CONCENTRATION |
|--------------------------------|------------|-----|-----------------|------------|-------------------|
| 2,3,7,8-TCDD                   | ND         |     | 20              | 1.0        | 0                 |
| <b>Total TCDD</b>              | <b>5.6</b> |     | <b>20</b>       |            |                   |
| 1,2,3,7,8-PeCDD                | ND         |     | 100             | 1.0        | 0                 |
| <b>Total PeCDD</b>             | <b>3.8</b> |     | <b>100</b>      |            |                   |
| 1,2,3,4,7,8-HxCDD              | ND         |     | 100             | 0.1        | 0                 |
| 1,2,3,6,7,8-HxCDD              | 2.2        | J B | 100             | 0.1        | 0.00039           |
| 1,2,3,7,8,9-HxCDD              | ND         |     | 100             | 0.1        | 0                 |
| <b>Total HxCDD</b>             | <b>9.4</b> |     | <b>100</b>      |            |                   |
| 1,2,3,4,6,7,8-HpCDD            | 9.4        | J   | 100             | 0.01       | 0.00017           |
| <b>Total HpCDD</b>             | <b>17</b>  |     | <b>100</b>      |            |                   |
| OCDD                           | 21         | J B | 200             | 0.0003     | 0.000011          |
| 2,3,7,8-TCDF                   | 16         | J   | 20              | 0.1        | 0.0029            |
| <b>Total TCDF</b>              | <b>81</b>  |     | <b>20</b>       |            |                   |
| 1,2,3,7,8-PeCDF                | 14         | J   | 100             | 0.03       | 0.00075           |
| 2,3,4,7,8-PeCDF                | 5.9        | J Q | 100             | 0.3        | 0.0032            |
| <b>Total PeCDF</b>             | <b>73</b>  |     | <b>100</b>      |            |                   |
| 1,2,3,4,7,8-HxCDF              | 27         | J B | 100             | 0.1        | 0.0048            |
| 1,2,3,6,7,8-HxCDF              | 20         | J B | 100             | 0.1        | 0.0036            |
| 2,3,4,6,7,8-HxCDF              | 7.1        | J Q | 100             | 0.1        | 0.0013            |
| 1,2,3,7,8,9-HxCDF              | 3.0        | J Q | 100             | 0.1        | 0.00053           |
| <b>Total HxCDF</b>             | <b>130</b> |     | <b>100</b>      |            |                   |
| 1,2,3,4,6,7,8-HpCDF            | 77         | J B | 100             | 0.01       | 0.0014            |
| 1,2,3,4,7,8,9-HpCDF            | 25         | J Q | 100             | 0.01       | 0.00045           |
| <b>Total HpCDF</b>             | <b>150</b> |     | <b>100</b>      |            |                   |
| OCDF                           | 170        | J   | 200             | 0.0003     | 0.000091          |
| <b>Total TEQ Concentration</b> |            |     |                 |            | <b>0.020</b>      |

Northgate Environmental Management, Inc.

Sample ID: UW-10072010B

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0J090500 - 008  
Date Sampled....: 10/07/10  
Prep Date....: 10/11/10  
Prep Batch # ....: 0284223  
Initial Wgt/Vol : 1 Sample

Work Order #....: L78WH1AA  
Date Received....: 10/09/10  
Analysis Date....: 10/15/10  
Dilution Factor....: 2  
Analyst ID....: Susan X. Yan

Matrix....: AA  
Instrument ID....: 4D5  
Volume....: 560.85  
Units....: pg/m3

| <u>INTERNAL STANDARDS</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|---------------------------|-------------------------|------------------------|
| 13C-2,3,7,8-TCDD          | 104                     | 50 - 120               |
| 13C-1,2,3,7,8-PeCDD       | 98                      | 50 - 120               |
| 13C-1,2,3,6,7,8-HxCDD     | 102                     | 50 - 120               |
| 13C-1,2,3,4,6,7,8-HpCDD   | 95                      | 40 - 120               |
| 13C-OCDD                  | 87                      | 40 - 120               |
| 13C-2,3,7,8-TCDF          | 105                     | 50 - 120               |
| 13C-1,2,3,7,8-PeCDF       | 110                     | 50 - 120               |
| 13C-1,2,3,4,7,8-HxCDF     | 87                      | 50 - 120               |
| 13C-1,2,3,4,6,7,8-HpCDF   | 90                      | 40 - 120               |

| <u>SURROGATE</u>   | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|--------------------|-------------------------|------------------------|
| 37Cl4-2,3,7,8-TCDD | 104                     | 50 - 120               |

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Notes:

WHO TEFs for human risk assessment based on the conclusions of the World Health Organization meeting in Geneva, Switzerland, June 2005.

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).



Northgate Environmental Management, Inc.

Sample ID: UW-10072010B

Trace Level Compounds

Lot - Sample #....: G0J090500 - 008  
 Date Sampled....: 10/07/10  
 Prep Date....: 10/11/10  
 Prep Batch # ....: 0284223  
 Initial Wgt/Vol....: 1 Sample

Work Order #....: L78WH1AA  
 Date Received....: 10/09/10  
 Analysis Date....: 10/15/10  
 Instrument ID....: 4D5  
 Analyst ID....: Susan X. Yan

Matrix....: AA  
 Dilution Factor....: 2  
 Volume....: 560.85  
 Method....: EPA-2 TO-9

| PARAMETER                  | RESULT        |            | REPORTING LIMIT | DETECTION LIMIT | UNITS        |
|----------------------------|---------------|------------|-----------------|-----------------|--------------|
| 2,3,7,8-TCDD               | ND            |            | 0.036           | 0.0036          | pg/m3        |
| <b>Total TCDD</b>          | <b>0.010</b>  |            | <b>0.036</b>    | <b>0.0036</b>   | <b>pg/m3</b> |
| 1,2,3,7,8-PeCDD            | ND            |            | 0.18            | 0.0064          | pg/m3        |
| <b>Total PeCDD</b>         | <b>0.0068</b> |            | <b>0.18</b>     | <b>0.0064</b>   | <b>pg/m3</b> |
| 1,2,3,4,7,8-HxCDD          | ND            |            | 0.18            | 0.0036          | pg/m3        |
| <b>1,2,3,6,7,8-HxCDD</b>   | <b>0.0039</b> | <b>J B</b> | <b>0.18</b>     | <b>0.0032</b>   | <b>pg/m3</b> |
| 1,2,3,7,8,9-HxCDD          | ND            |            | 0.18            | 0.0032          | pg/m3        |
| <b>Total HxCDD</b>         | <b>0.017</b>  |            | <b>0.18</b>     | <b>0.0034</b>   | <b>pg/m3</b> |
| <b>1,2,3,4,6,7,8-HpCDD</b> | <b>0.017</b>  | <b>J</b>   | <b>0.18</b>     | <b>0.0030</b>   | <b>pg/m3</b> |
| <b>Total HpCDD</b>         | <b>0.030</b>  |            | <b>0.18</b>     | <b>0.0030</b>   | <b>pg/m3</b> |
| <b>OCDD</b>                | <b>0.038</b>  | <b>J B</b> | <b>0.36</b>     | <b>0.0036</b>   | <b>pg/m3</b> |
| 2,3,7,8-TCDF               | 0.028         | J          | 0.036           | 0.0029          | pg/m3        |
| <b>Total TCDF</b>          | <b>0.14</b>   |            | <b>0.036</b>    | <b>0.0029</b>   | <b>pg/m3</b> |
| 1,2,3,7,8-PeCDF            | 0.025         | J          | 0.18            | 0.0046          | pg/m3        |
| 2,3,4,7,8-PeCDF            | 0.011         | J Q        | 0.18            | 0.0048          | pg/m3        |
| <b>Total PeCDF</b>         | <b>0.13</b>   |            | <b>0.18</b>     | <b>0.0048</b>   | <b>pg/m3</b> |
| 1,2,3,4,7,8-HxCDF          | 0.048         | J B        | 0.18            | 0.0032          | pg/m3        |
| 1,2,3,6,7,8-HxCDF          | 0.035         | J B        | 0.18            | 0.0030          | pg/m3        |
| 2,3,4,6,7,8-HxCDF          | 0.013         | J Q        | 0.18            | 0.0032          | pg/m3        |
| 1,2,3,7,8,9-HxCDF          | 0.0054        | J Q        | 0.18            | 0.0036          | pg/m3        |
| <b>Total HxCDF</b>         | <b>0.24</b>   |            | <b>0.18</b>     | <b>0.0032</b>   | <b>pg/m3</b> |
| 1,2,3,4,6,7,8-HpCDF        | 0.14          | J B        | 0.18            | 0.0037          | pg/m3        |
| 1,2,3,4,7,8,9-HpCDF        | 0.045         | J Q        | 0.18            | 0.0046          | pg/m3        |
| <b>Total HpCDF</b>         | <b>0.26</b>   |            | <b>0.18</b>     | <b>0.0041</b>   | <b>pg/m3</b> |
| <b>OCDF</b>                | <b>0.30</b>   | <b>J</b>   | <b>0.36</b>     | <b>0.0057</b>   | <b>pg/m3</b> |

INTERNAL STANDARDS

13C-2,3,7,8-TCDD  
 13C-1,2,3,7,8-PeCDD  
 13C-1,2,3,6,7,8-HxCDD  
 13C-1,2,3,4,6,7,8-HpCDD  
 13C-OCDD  
 13C-2,3,7,8-TCDF  
 13C-1,2,3,7,8-PeCDF  
 13C-1,2,3,4,7,8-HxCDF  
 13C-1,2,3,4,6,7,8-HpCDF

PERCENT RECOVERY

104  
 98  
 102  
 95  
 87  
 105  
 110  
 87  
 90

RECOVERY LIMITS

50 - 120  
 50 - 120  
 50 - 120  
 40 - 120  
 40 - 120  
 50 - 120  
 50 - 120  
 50 - 120  
 40 - 120

SURROGATE

37Cl4-2,3,7,8-TCDD

PERCENT RECOVERY

104

RECOVERY LIMITS

50 - 120

**Northgate Environmental Management, Inc.**

**Sample ID: UW-10072010B**

**Trace Level Compounds**

|                             |                 |                           |              |                             |            |
|-----------------------------|-----------------|---------------------------|--------------|-----------------------------|------------|
| <b>Lot - Sample #....:</b>  | G0J090500 - 008 | <b>Work Order #....:</b>  | L78WH1AA     | <b>Matrix....:</b>          | AA         |
| <b>Date Sampled....:</b>    | 10/07/10        | <b>Date Received....:</b> | 10/09/10     | <b>Dilution Factor....:</b> | 2          |
| <b>Prep Date....:</b>       | 10/11/10        | <b>Analysis Date....:</b> | 10/15/10     | <b>Volume....:</b>          | 560.85     |
| <b>Prep Batch # ....:</b>   | 0284223         | <b>Instrument ID....:</b> | 4D5          | <b>Method....:</b>          | EPA-2 TO-9 |
| <b>Initial Wgt/Vol....:</b> | 1 Sample        | <b>Analyst ID....:</b>    | Susan X. Yan |                             |            |

**QUALIFIERS**

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

# QC DATA ASSOCIATION SUMMARY

G0J090500

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
|                | AA            | SW846 6020                   |                          | 0287352                 |                |
| 002            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
|                | AA            | SW846 6020                   |                          | 0287352                 |                |
| 003            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
|                | AA            | SW846 6020                   |                          | 0287352                 |                |
| 004            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
|                | AA            | SW846 6020                   |                          | 0287352                 |                |
| 005            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
|                | AA            | SW846 6020                   |                          | 0287352                 |                |
| 006            | AA            | CFR50B APDX B                |                          | 0287426                 |                |
|                | AA            | SW846 6020                   |                          | 0287352                 |                |
| 007            | AA            | EPA-2 TO-9                   |                          | 0284223                 |                |
| 008            | AA            | EPA-2 TO-9                   |                          | 0284223                 |                |
| 009            | AA            | EPA-2 TO-13                  |                          | 0284217                 |                |
| 010            | AA            | EPA-2 TO-13                  |                          | 0284217                 |                |

**Method Blank Report**

**Trace Level Compounds**

Lot - Sample #....: G0J110000 - 223B  
 Date Sampled....: 10/07/10  
 Prep Date....: 10/11/10  
 Prep Batch # ....: 0284223  
 Initial Wgt/Vol....: 1 Sample

Work Order #....: L79L21AA  
 Date Received....: 10/09/10  
 Analysis Date....: 10/15/10  
 Instrument ID....: 4D5  
 Analyst ID....: Susan X. Yan

Matrix....: AIR  
 Dilution Factor....: 2  
 Volume....: 0  
 Method....: EPA-2 TO-9

| <u>PARAMETER</u>           | <u>RESULT</u>         | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|----------------------------|-----------------------|------------------------|------------------------|--------------|
| 2,3,7,8-TCDD               | ND                    | 20                     | 1.4                    | pg           |
| Total TCDD                 | ND                    | 20                     | 1.4                    | pg           |
| 1,2,3,7,8-PeCDD            | ND                    | 100                    | 4.1                    | pg           |
| Total PeCDD                | ND                    | 100                    | 4.1                    | pg           |
| 1,2,3,4,7,8-HxCDD          | ND                    | 100                    | 1.4                    | pg           |
| <b>1,2,3,6,7,8-HxCDD</b>   | <b>1.5</b> <b>J</b>   | <b>100</b>             | <b>1.2</b>             | <b>pg</b>    |
| 1,2,3,7,8,9-HxCDD          | ND                    | 100                    | 1.2                    | pg           |
| <b>Total HxCDD</b>         | <b>1.5</b>            | <b>100</b>             | <b>1.3</b>             | <b>pg</b>    |
| 1,2,3,4,6,7,8-HpCDD        | ND                    | 100                    | 2.7                    | pg           |
| Total HpCDD                | ND                    | 100                    | 2.7                    | pg           |
| <b>OCDD</b>                | <b>20</b> <b>J</b>    | <b>200</b>             | <b>4.2</b>             | <b>pg</b>    |
| 2,3,7,8-TCDF               | ND                    | 20                     | 1.2                    | pg           |
| Total TCDF                 | ND                    | 20                     | 1.2                    | pg           |
| 1,2,3,7,8-PeCDF            | ND                    | 100                    | 1.9                    | pg           |
| 2,3,4,7,8-PeCDF            | ND                    | 100                    | 2.0                    | pg           |
| Total PeCDF                | ND                    | 100                    | 2.0                    | pg           |
| <b>1,2,3,4,7,8-HxCDF</b>   | <b>1.4</b> <b>J Q</b> | <b>100</b>             | <b>0.89</b>            | <b>pg</b>    |
| <b>1,2,3,6,7,8-HxCDF</b>   | <b>1.1</b> <b>J Q</b> | <b>100</b>             | <b>0.85</b>            | <b>pg</b>    |
| 2,3,4,6,7,8-HxCDF          | ND                    | 100                    | 0.88                   | pg           |
| 1,2,3,7,8,9-HxCDF          | ND                    | 100                    | 0.99                   | pg           |
| <b>Total HxCDF</b>         | <b>2.5</b>            | <b>100</b>             | <b>0.90</b>            | <b>pg</b>    |
| <b>1,2,3,4,6,7,8-HpCDF</b> | <b>2.6</b> <b>J Q</b> | <b>100</b>             | <b>1.9</b>             | <b>pg</b>    |
| 1,2,3,4,7,8,9-HpCDF        | ND                    | 100                    | 2.3                    | pg           |
| <b>Total HpCDF</b>         | <b>2.6</b>            | <b>100</b>             | <b>2.1</b>             | <b>pg</b>    |
| OCDF                       | ND                    | 200                    | 2.6                    | pg           |

| <u>INTERNAL STANDARDS</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|---------------------------|-------------------------|------------------------|
| 13C-2,3,7,8-TCDD          | 99                      | 50 - 120               |
| 13C-1,2,3,7,8-PeCDD       | 97                      | 50 - 120               |
| 13C-1,2,3,6,7,8-HxCDD     | 107                     | 50 - 120               |
| 13C-1,2,3,4,6,7,8-HpCDD   | 92                      | 40 - 120               |
| 13C-OCDD                  | 88                      | 40 - 120               |
| 13C-2,3,7,8-TCDF          | 100                     | 50 - 120               |
| 13C-1,2,3,7,8-PeCDF       | 104                     | 50 - 120               |
| 13C-1,2,3,4,7,8-HxCDF     | 86                      | 50 - 120               |
| 13C-1,2,3,4,6,7,8-HpCDF   | 88                      | 40 - 120               |

| <u>SURROGATE</u>   | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|--------------------|-------------------------|------------------------|
| 37Cl4-2,3,7,8-TCDD | 105                     | 50 - 120               |

**Method Blank Report**

**Trace Level Compounds**

**Lot - Sample #....:** G0J110000 - 223B  
**Date Sampled....:** 10/07/10  
**Prep Date....:** 10/11/10  
**Prep Batch # ....:** 0284223  
**Initial Wgt/Vol....:** 1 Sample

**Work Order #....:** L79L21AA  
**Date Received....:** 10/09/10  
**Analysis Date....:** 10/15/10  
**Instrument ID....:** 4D5  
**Analyst ID....:** Susan X. Yan

**Matrix....:** AIR  
**Dilution Factor....:** 2  
**Volume....:** 0  
**Method....:** EPA-2 TO-9

**QUALIFIERS**

- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

|  |                                       |                                |
|--|---------------------------------------|--------------------------------|
| <b>Client Lot # ...:</b> G0J090500       | <b>Work Order # ...:</b> L79L21AC-LCS | <b>Matrix .....</b> : AIR      |
| <b>LCS Lot-Sample# :</b> G0J110000 - 223 | L79L21AD-LCSD                         |                                |
| <b>Prep Date .....</b> : 10/11/10        | <b>Analysis Date ...:</b> 10/15/10    |                                |
| <b>Prep Batch # ...:</b> 0284223         |                                       |                                |
| <b>Dilution Factor :</b> 2               |                                       |                                |
| <b>Analyst ID.....:</b> Susan X. Yan     | <b>Instrument ID..:</b> 4D5           | <b>Method.....:</b> EPA-2 TO-9 |
| <b>Initial Wgt/Vol:</b> 1 Sample         |                                       |                                |

| <u>PARAMETER</u>         | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u>            | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> |
|--------------------------|---------------------|------------------------|-------------------------|-------------------------|------------------------|------------|-------------------|
| 2,3,7,8-TCDD             | 400                 | 437                    | pg                      | 109                     | (70 - 130)             |            |                   |
|                          | 400                 | 427                    | pg                      | 107                     | (70 - 130)             | 2.3        | (0 - 30)          |
| 1,2,3,7,8-PeCDD          | 2000                | 2320                   | pg                      | 116                     | (70 - 130)             |            |                   |
|                          | 2000                | 2410                   | pg                      | 121                     | (70 - 130)             | 4.1        | (0 - 30)          |
| 1,2,3,4,7,8-HxCDD        | 2000                | 2070                   | pg                      | 104                     | (70 - 130)             |            |                   |
|                          | 2000                | 2020                   | pg                      | 101                     | (70 - 130)             | 2.8        | (0 - 30)          |
| 1,2,3,6,7,8-HxCDD        | 2000                | 2190                   | pg                      | 110                     | (70 - 130)             |            |                   |
|                          | 2000                | 2340                   | pg                      | 117                     | (70 - 130)             | 6.7        | (0 - 30)          |
| 1,2,3,7,8,9-HxCDD        | 2000                | 2210                   | pg                      | 111                     | (70 - 130)             |            |                   |
|                          | 2000                | 2200                   | pg                      | 110                     | (70 - 130)             | 0.61       | (0 - 30)          |
| 1,2,3,4,6,7,8-HpCDD      | 2000                | 2150                   | pg                      | 108                     | (70 - 130)             |            |                   |
|                          | 2000                | 2120                   | pg                      | 106                     | (70 - 130)             | 1.3        | (0 - 30)          |
| OCDD                     | 4000                | 4350                   | pg                      | 109                     | (70 - 130)             |            |                   |
|                          | 4000                | 4230                   | pg                      | 106                     | (70 - 130)             | 2.8        | (0 - 30)          |
| 2,3,7,8-TCDF             | 400                 | 403                    | pg                      | 101                     | (70 - 130)             |            |                   |
|                          | 400                 | 423                    | pg                      | 106                     | (70 - 130)             | 4.9        | (0 - 30)          |
| 1,2,3,7,8-PeCDF          | 2000                | 2160                   | pg                      | 108                     | (70 - 130)             |            |                   |
|                          | 2000                | 2170                   | pg                      | 108                     | (70 - 130)             | 0.34       | (0 - 30)          |
| 2,3,4,7,8-PeCDF          | 2000                | 2050                   | pg                      | 103                     | (70 - 130)             |            |                   |
|                          | 2000                | 2080                   | pg                      | 104                     | (70 - 130)             | 1.5        | (0 - 30)          |
| 1,2,3,4,7,8-HxCDF        | 2000                | 2200                   | pg                      | 110                     | (70 - 130)             |            |                   |
|                          | 2000                | 2380                   | pg                      | 119                     | (70 - 130)             | 7.7        | (0 - 30)          |
| 1,2,3,6,7,8-HxCDF        | 2000                | 2300                   | pg                      | 115                     | (70 - 130)             |            |                   |
|                          | 2000                | 2400                   | pg                      | 120                     | (70 - 130)             | 4.3        | (0 - 30)          |
| 2,3,4,6,7,8-HxCDF        | 2000                | 2250                   | pg                      | 113                     | (70 - 130)             |            |                   |
|                          | 2000                | 2410                   | pg                      | 120                     | (70 - 130)             | 6.7        | (0 - 30)          |
| 1,2,3,7,8,9-HxCDF        | 2000                | 2160                   | pg                      | 108                     | (70 - 130)             |            |                   |
|                          | 2000                | 2350                   | pg                      | 117                     | (70 - 130)             | 8.5        | (0 - 30)          |
| 1,2,3,4,6,7,8-HpCDF      | 2000                | 2320                   | pg                      | 116                     | (70 - 130)             |            |                   |
|                          | 2000                | 2360                   | pg                      | 118                     | (70 - 130)             | 1.7        | (0 - 30)          |
| 1,2,3,4,7,8,9-HpCDF      | 2000                | 2320                   | pg                      | 116                     | (70 - 130)             |            |                   |
|                          | 2000                | 2390                   | pg                      | 119                     | (70 - 130)             | 3.1        | (0 - 30)          |
| OCDF                     | 4000                | 4350                   | pg                      | 109                     | (70 - 130)             |            |                   |
|                          | 4000                | 4270                   | pg                      | 107                     | (70 - 130)             | 1.8        | (0 - 30)          |
| <u>INTERNAL STANDARD</u> |                     |                        | <u>PERCENT RECOVERY</u> |                         | <u>RECOVERY LIMITS</u> |            |                   |
| 13C-2,3,7,8-TCDD         |                     |                        | 100                     |                         | (50 - 120)             |            |                   |
|                          |                     |                        | 103                     |                         | (50 - 120)             |            |                   |
| 13C-1,2,3,7,8-PeCDD      |                     |                        | 97                      |                         | (50 - 120)             |            |                   |
|                          |                     |                        | 99                      |                         | (50 - 120)             |            |                   |
| 13C-1,2,3,6,7,8-HxCDD    |                     |                        | 97                      |                         | (50 - 120)             |            |                   |

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Compounds

Client Lot # ...: G0J090500  
LCS Lot-Sample#: G0J110000 - 223

Work Order # ...: L79L21AC-LCS  
L79L21AD-LCSD

Matrix .....: AIR

| <u>INTERNAL STANDARD</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> |
|--------------------------|-------------------------|------------------------|
|                          | 98                      | (50 - 120)             |
| 13C-1,2,3,4,6,7,8-HpCDD  | 91                      | (40 - 120)             |
|                          | 96                      | (40 - 120)             |
| 13C-OCDD                 | 83                      | (40 - 120)             |
|                          | 88                      | (40 - 120)             |
| 13C-2,3,7,8-TCDF         | 100                     | (50 - 120)             |
|                          | 103                     | (50 - 120)             |
| 13C-1,2,3,7,8-PeCDF      | 106                     | (50 - 120)             |
|                          | 109                     | (50 - 120)             |
| 13C-1,2,3,4,7,8-HxCDF    | 89                      | (50 - 120)             |
|                          | 86                      | (50 - 120)             |
| 13C-1,2,3,4,6,7,8-HpCDF  | 89                      | (40 - 120)             |
|                          | 91                      | (40 - 120)             |

**Notes:**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
Bold print denotes control parameters

# AIR, TO-13, Semivolatile Organics



**Northgate Environmental Management, Inc.**

**Sample ID: DW-10072010B**

**Trace Level Compounds**

|  |                                     |                                |
|--|-------------------------------------|--------------------------------|
| <b>Lot - Sample #....:</b> G0J090500 - 009 | <b>Work Order #....:</b> L78WJ1AA   | <b>Matrix....:</b> AA          |
| <b>Date Sampled....:</b> 10/07/10          | <b>Date Received....:</b> 10/09/10  | <b>Dilution Factor....:</b> 1  |
| <b>Prep Date....:</b> 10/11/10             | <b>Analysis Date....:</b> 10/13/10  | <b>Volume....:</b> 626.51      |
| <b>Prep Batch # ....:</b> 0284217          | <b>Instrument ID....:</b> 5MH       | <b>Method....:</b> EPA-2 TO-13 |
| <b>Initial Wgt/Vol....:</b> 1 Sample       | <b>Analyst ID....:</b> Steven Scott |                                |

| <u>PARAMETER</u>       | <u>RESULT</u> |   | <u>REPORTING LIMIT</u>  | <u>DETECTION LIMIT</u> | <u>UNITS</u>           |
|------------------------|---------------|---|-------------------------|------------------------|------------------------|
| Hexachlorobenzene      | 0.0038        | J | 0.016                   | 0.0021                 | ug/m3                  |
| <u>SURROGATE</u>       |               |   | <u>PERCENT RECOVERY</u> |                        | <u>RECOVERY LIMITS</u> |
| 1,2-Dichlorobenzene-d4 |               |   | 31                      |                        | 60 - 120               |
| 2-Fluorobiphenyl       |               |   | 77                      |                        | 58 - 105               |
| 2-Fluorophenol         |               |   | 67                      |                        | 41 - 105               |
| Nitrobenzene-d5        |               |   | 72                      |                        | 46 - 118               |
| Phenol-d5              |               |   | 76                      |                        | 43 - 122               |
| Terphenyl-d14          |               |   | 84                      |                        | 69 - 110               |
| 2,4,6-Tribromophenol   |               |   | 93                      |                        | 61 - 118               |

**QUALIFIERS**

- \* Surrogate recovery is outside stated control limits.
- J Estimated Result.

**Northgate Environmental Management, Inc.**

**Sample ID: UW-10072010B**

**Trace Level Compounds**

|  |                                     |                                |
|--|-------------------------------------|--------------------------------|
| <b>Lot - Sample #....:</b> G0J090500 - 010 | <b>Work Order #....:</b> L78WK1AA   | <b>Matrix....:</b> AA          |
| <b>Date Sampled....:</b> 10/07/10          | <b>Date Received....:</b> 10/09/10  | <b>Dilution Factor....:</b> 1  |
| <b>Prep Date....:</b> 10/11/10             | <b>Analysis Date....:</b> 10/13/10  | <b>Volume....:</b> 555.57      |
| <b>Prep Batch # ....:</b> 0284217          | <b>Instrument ID....:</b> 5MH       | <b>Method....:</b> EPA-2 TO-13 |
| <b>Initial Wgt/Vol....:</b> 1 Sample       | <b>Analyst ID....:</b> Steven Scott |                                |

| <u>PARAMETER</u>        | <u>RESULT</u> | <u>REPORTING LIMIT</u>         | <u>DETECTION LIMIT</u> | <u>UNITS</u>                  |
|-------------------------|---------------|--------------------------------|------------------------|-------------------------------|
| Hexachlorobenzene       | ND            | 0.018                          | 0.0023                 | ug/m3                         |
| <b><u>SURROGATE</u></b> |               | <b><u>PERCENT RECOVERY</u></b> |                        | <b><u>RECOVERY LIMITS</u></b> |
| 1,2-Dichlorobenzene-d4  |               | 18                             | *                      | 60 - 120                      |
| 2-Fluorobiphenyl        |               | 78                             |                        | 58 - 105                      |
| 2-Fluorophenol          |               | 66                             |                        | 41 - 105                      |
| Nitrobenzene-d5         |               | 71                             |                        | 46 - 118                      |
| Phenol-d5               |               | 76                             |                        | 43 - 122                      |
| Terphenyl-d14           |               | 92                             |                        | 69 - 110                      |
| 2,4,6-Tribromophenol    |               | 98                             |                        | 61 - 118                      |

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits.

# QC DATA ASSOCIATION SUMMARY

G0J090500

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | AA<br>AA      | CFR50B APDX B<br>SW846 6020  |                          | 0287426<br>0287352      |                |
| 002            | AA<br>AA      | CFR50B APDX B<br>SW846 6020  |                          | 0287426<br>0287352      |                |
| 003            | AA<br>AA      | CFR50B APDX B<br>SW846 6020  |                          | 0287426<br>0287352      |                |
| 004            | AA<br>AA      | CFR50B APDX B<br>SW846 6020  |                          | 0287426<br>0287352      |                |
| 005            | AA<br>AA      | CFR50B APDX B<br>SW846 6020  |                          | 0287426<br>0287352      |                |
| 006            | AA<br>AA      | CFR50B APDX B<br>SW846 6020  |                          | 0287426<br>0287352      |                |
| 007            | AA            | EPA-2 TO-9                   |                          | 0284223                 |                |
| 008            | AA            | EPA-2 TO-9                   |                          | 0284223                 |                |
| 009            | AA            | EPA-2 TO-13                  |                          | 0284217                 |                |
| 010            | AA            | EPA-2 TO-13                  |                          | 0284217                 |                |

**Method Blank Report**

**Trace Level Compounds**

Lot - Sample #....: G0J110000 - 217B  
Date Sampled....: 10/07/10  
Prep Date....: 10/11/10  
Prep Batch # ....: 0284217  
Initial Wgt/Vol....: 1 Sample

Work Order #....: L79L71AA  
Date Received....: 10/09/10  
Analysis Date....: 10/13/10  
Instrument ID....: 5MH  
Analyst ID....: Steven Scott

Matrix....: AIR  
Dilution Factor....: 1  
Volume....: 0  
Method....: EPA-2 TO-13

| <u>PARAMETER</u>       | <u>RESULT</u>           | <u>REPORTING LIMIT</u> | <u>DETECTION LIMIT</u> | <u>UNITS</u> |
|------------------------|-------------------------|------------------------|------------------------|--------------|
| Hexachlorobenzene      | ND                      | 10.0                   | 1.3                    | ug           |
| <u>SURROGATE</u>       | <u>PERCENT RECOVERY</u> |                        | <u>RECOVERY LIMITS</u> |              |
| 1,2-Dichlorobenzene-d4 | 35                      | *                      | 60 - 120               |              |
| 2-Fluorobiphenyl       | 65                      |                        | 58 - 105               |              |
| 2-Fluorophenol         | 61                      |                        | 41 - 105               |              |
| Nitrobenzene-d5        | 65                      |                        | 46 - 118               |              |
| Phenol-d5              | 67                      |                        | 43 - 122               |              |
| Terphenyl-d14          | 84                      |                        | 69 - 110               |              |
| 2,4,6-Tribromophenol   | 91                      |                        | 61 - 118               |              |

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits.

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

|  |                                       |                                 |
|--|---------------------------------------|---------------------------------|
| <b>Client Lot # ...:</b> G0J090500       | <b>Work Order # ...:</b> L79L71AC-LCS | <b>Matrix .....</b> : AIR       |
| <b>LCS Lot-Sample# :</b> G0J110000 - 217 | L79L71AD-LCSD                         |                                 |
| <b>Prep Date .....</b> : 10/11/10        | <b>Analysis Date ..:</b> 10/13/10     |                                 |
| <b>Prep Batch # ...:</b> 0284217         |                                       |                                 |
| <b>Dilution Factor :</b> 1               |                                       |                                 |
| <b>Analyst ID.....:</b> Steven Scott     | <b>Instrument ID..:</b> 5MH           | <b>Method.....:</b> EPA-2 TO-13 |
| <b>Initial Wgt/Vol:</b> 1 Sample         |                                       |                                 |

| <u>PARAMETER</u>         | <u>SPIKE AMOUNT</u> | <u>MEASURED AMOUNT</u> | <u>UNITS</u>            | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> |
|--------------------------|---------------------|------------------------|-------------------------|-------------------------|------------------------|------------|-------------------|
| <b>Hexachlorobenzene</b> | <b>100</b>          | <b>91.3</b>            | <b>ug</b>               | <b>91</b>               | <b>(70 - 110)</b>      |            |                   |
|                          | <b>100</b>          | <b>92.6</b>            | <b>ug</b>               | <b>93</b>               | <b>(70 - 110)</b>      | <b>1.4</b> | <b>(0 - 30)</b>   |
| <u>SURROGATE</u>         |                     |                        | <u>PERCENT RECOVERY</u> |                         | <u>RECOVERY LIMITS</u> |            |                   |
| 2-Fluorobiphenyl         |                     |                        | 82                      |                         | (58 - 105)             |            |                   |
|                          |                     |                        | 79                      |                         | (58 - 105)             |            |                   |
| 2-Fluorophenol           |                     |                        | 69                      |                         | (41 - 105)             |            |                   |
|                          |                     |                        | 68                      |                         | (41 - 105)             |            |                   |
| Nitrobenzene-d5          |                     |                        | 75                      |                         | (46 - 118)             |            |                   |
|                          |                     |                        | 70                      |                         | (46 - 118)             |            |                   |
| Phenol-d5                |                     |                        | 75                      |                         | (43 - 122)             |            |                   |
|                          |                     |                        | 72                      |                         | (43 - 122)             |            |                   |
| Terphenyl-d14            |                     |                        | 85                      |                         | (69 - 110)             |            |                   |
|                          |                     |                        | 82                      |                         | (69 - 110)             |            |                   |
| 2,4,6-Tribromophenol     |                     |                        | 101                     |                         | (61 - 118)             |            |                   |
|                          |                     |                        | 97                      |                         | (61 - 118)             |            |                   |

**Notes:**

Calculations are performed before rounding to avoid round-off errors in calculated results.  
 Bold print denotes control parameters

# AIR, Metals

# **Raw Data Package**

# ICPMS



|  |                                 |                                |                       |    |
|--|---------------------------------|--------------------------------|-----------------------|----|
| Instrument ID (Circle one): <b>M01</b> <b>M02</b>  |                                 | Method 6020<br>SOP SAC-MT-0001 |                       |    |
| File Number<br><b>101014A2</b>   | Batch Numbers<br><b>0287352</b> | Date<br><b>10/14/10</b>        | Analyst<br><b>BRJ</b> |    |
| Lot Numbers<br><b>905090500</b>  |                                 | YES                            | NO                    | NA |
| 1. Copy of analysis protocol used included?  |                                 | ✓                              |                       |    |
| 2. ICVs & CCVs within 10% of true value or recal and rerun?  |                                 | ✓                              |                       |    |
| 3. ICB & CCBs < reporting limit or recal and rerun?  |                                 | ✓                              |                       |    |
| 4. 10 samples or less analyzed between calibration checks?   |                                 | ✓                              |                       |    |
| 5. All parameters within linear range?   |                                 | ✓                              |                       |    |
| 6. LCS/LCSD within limits?   |                                 | ✓                              |                       |    |
| 7. Prep blank value < reporting limit or all samples >20x blank?   |                                 | ✓                              |                       |    |
| 8. Internal standard intensities for samples (unless followed by dilution) are > 30% and <120% of the Calibration Blank intensities? |                                 | ✓                              |                       |    |
| 9. Appropriate dilution factors applied to data?   |                                 | ✓                              |                       |    |
| 10. Matrix spike and spike dup within customer defined limits?   |                                 |                                |                       | ✓  |
| 11. Each batch checked for presence of internal standard in samples?   |                                 | ✓                              |                       |    |
| 12. Anomalies entered using Clouseau?  |                                 |                                |                       | ✓  |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

|                         |                             |
|-------------------------|-----------------------------|
| REVIEWED BY: <b>MTL</b> | DATA ENTERED BY: <b>BRJ</b> |
| DATE: <b>10/15/10</b>   | DATE: <b>10/15/10</b>       |

# Dataset Report

Perkin Elmer M02  
SOP No. SAC-MT-0001  
Method: 6020,200.8

User Name: metal  
Computer Name: SACP1223  
Dataset File Path: E:\elandata\Dataset\101014A2\  
Report Date/Time: Thursday, October 14, 2010 17:20:54

## The Dataset

| Batch ID | Sample ID       | Date and Time          | Read Type   | Description  |
|----------|-----------------|------------------------|-------------|--|
|          | TUNE BJONES     | 12:53:43 Thu 14-Oct-10 | Sample      |  |
|          | AUTOLENS BJONES | 12:59:29 Thu 14-Oct-10 | Sample      | Auto Lens Calib  |
|          | DAILY BJONES    | 13:02:48 Thu 14-Oct-10 | Sample      |  |
| 287352   | L78V9 N.I.      | 15:33:42 Thu 14-Oct-10 | Sample      | G0J090500-1 N.I.   |
|          | Rinse 3X        | 15:40:25 Thu 14-Oct-10 | Sample      |  |
|          | Blank           | 15:43:11 Thu 14-Oct-10 | Blank       |  |
|          | Standard 1      | 15:45:51 Thu 14-Oct-10 | Standard #1 |  |
|          | ICV             | 15:48:30 Thu 14-Oct-10 | Sample      |  |
|          | ICB             | 15:51:15 Thu 14-Oct-10 | Sample      |  |
|          | LLSTD1          | 15:54:33 Thu 14-Oct-10 | Sample      | LLSTD@10X  |
|          | LLSTD2          | 15:57:17 Thu 14-Oct-10 | Sample      | LLSTD@5X   |
|          | ICSA            | 16:00:01 Thu 14-Oct-10 | Sample      |  |
|          | ICSAB           | 16:02:43 Thu 14-Oct-10 | Sample      |  |
|          | Rinse           | 16:10:08 Thu 14-Oct-10 | Sample      |  |
|          | CCV 1           | 16:16:33 Thu 14-Oct-10 | Sample      |  |
|          | CCB 1           | 16:19:18 Thu 14-Oct-10 | Sample      |  |
|          | CCV 2           | 16:22:03 Thu 14-Oct-10 | Sample      |  |
|          | CCB 2           | 16:24:48 Thu 14-Oct-10 | Sample      |  |
| 287352   | XXXXX           | 16:27:34 Thu 14-Oct-10 | Sample      | <del>G0J140000-352 BLK</del> - WRONG POSITION - RETURN ↓ |
| 287352   | L8GKNC          | 16:30:20 Thu 14-Oct-10 | Sample      | G0J140000-352 LCS  |
| 287352   | L8GKNL          | 16:33:04 Thu 14-Oct-10 | Sample      | G0J140000-352 LCSD                                       |
| 287352   | L78V9           | 16:35:47 Thu 14-Oct-10 | Sample      | G0J090500-1  |
| 287352   | L78V9P5         | 16:38:30 Thu 14-Oct-10 | Sample      | G0J090500-1 5X   |
| 287352   | L78V9Z          | 16:41:12 Thu 14-Oct-10 | Sample      | G0J090500-1 PS   |
|          | CCV 3           | 16:43:55 Thu 14-Oct-10 | Sample      |  |
|          | CCB 3           | 16:46:40 Thu 14-Oct-10 | Sample      |  |
|          | CCV 4           | 16:49:25 Thu 14-Oct-10 | Sample      |  |
|          | CCB 4           | 16:52:10 Thu 14-Oct-10 | Sample      |  |
| 287352   | L8GKNB          | 16:54:56 Thu 14-Oct-10 | Sample      | G0J140000-352 BLK ✓                                      |
| 287352   | L78WA           | 16:57:41 Thu 14-Oct-10 | Sample      | G0J090500-2  |
| 287352   | L78WC           | 17:00:24 Thu 14-Oct-10 | Sample      | G0J090500-3  |
| 287352   | L78WD           | 17:03:08 Thu 14-Oct-10 | Sample      | G0J090500-4  |
| 287352   | L78WE           | 17:05:51 Thu 14-Oct-10 | Sample      | G0J090500-5  |
| 287352   | L78WF           | 17:08:35 Thu 14-Oct-10 | Sample      | G0J090500-6  |
|          | CCV 5           | 17:11:20 Thu 14-Oct-10 | Sample      |  |
|          | CCB 5           | 17:14:05 Thu 14-Oct-10 | Sample      |  |

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 10/15/10 09:01:21

File ID: 101014A2

Analyst: ioneseb

| #  | Sample ID | Lot No.     | Batch   | DF | Analyzed Date | Comment        | Q                        |
|----|-----------|-------------|---------|----|---------------|----------------|--------------------------|
| 1  | Rinse 3X  |             |         |    | 3.0           | 10/14/10 15:40 | <input type="checkbox"/> |
| 2  | Blank     |             |         |    | 1.0           | 10/14/10 15:43 | <input type="checkbox"/> |
| 3  | Standard1 |             |         |    | 1.0           | 10/14/10 15:45 | <input type="checkbox"/> |
| 4  | ICV       |             |         |    | 1.0           | 10/14/10 15:48 | <input type="checkbox"/> |
| 5  | ICB       |             |         |    | 1.0           | 10/14/10 15:51 | <input type="checkbox"/> |
| 6  | LLSTD1    |             |         |    | 1.0           | 10/14/10 15:54 | <input type="checkbox"/> |
| 7  | LLSTD2    |             |         |    | 1.0           | 10/14/10 15:57 | <input type="checkbox"/> |
| 8  | ICSA      |             |         |    | 1.0           | 10/14/10 16:00 | <input type="checkbox"/> |
| 9  | ICSAB     |             |         |    | 1.0           | 10/14/10 16:02 | <input type="checkbox"/> |
| 10 | Rinse     |             |         |    | 1.0           | 10/14/10 16:10 | <input type="checkbox"/> |
| 11 | CCV 1     |             |         |    | 1.0           | 10/14/10 16:16 | <input type="checkbox"/> |
| 12 | CCB 1     |             |         |    | 1.0           | 10/14/10 16:19 | <input type="checkbox"/> |
| 13 | CCV 2     |             |         |    | 1.0           | 10/14/10 16:22 | <input type="checkbox"/> |
| 14 | CCB 2     |             |         |    | 1.0           | 10/14/10 16:24 | <input type="checkbox"/> |
| 15 | XXXXX     |             |         |    | 1.0           | 10/14/10 16:27 | <input type="checkbox"/> |
| 16 | L8GKNC    | G0J140000   | 0287352 | 2A | 1.0           | 10/14/10 16:30 | <input type="checkbox"/> |
| 17 | L8GKNL    | G0J140000   | 0287352 | 2A | 1.0           | 10/14/10 16:33 | <input type="checkbox"/> |
| 18 | L78V9     | G0J090500-1 | 0287352 | 2A | 1.0           | 10/14/10 16:35 | <input type="checkbox"/> |
| 19 | L78V9P5   | G0J090500   | 0287352 |    | 5.0           | 10/14/10 16:38 | <input type="checkbox"/> |
| 20 | L78V9Z    | G0J090500-1 | 0287352 |    | 1.0           | 10/14/10 16:41 | <input type="checkbox"/> |
| 21 | CCV 3     |             |         |    | 1.0           | 10/14/10 16:43 | <input type="checkbox"/> |
| 22 | CCB 3     |             |         |    | 1.0           | 10/14/10 16:46 | <input type="checkbox"/> |
| 23 | CCV 4     |             |         |    | 1.0           | 10/14/10 16:49 | <input type="checkbox"/> |
| 24 | CCB 4     |             |         |    | 1.0           | 10/14/10 16:52 | <input type="checkbox"/> |
| 25 | L8GKNB    | G0J140000   | 0287352 | 2A | 1.0           | 10/14/10 16:54 | <input type="checkbox"/> |
| 26 | L78WA     | G0J090500-2 | 0287352 | 2A | 1.0           | 10/14/10 16:57 | <input type="checkbox"/> |
| 27 | L78WC     | G0J090500-3 | 0287352 | 2A | 1.0           | 10/14/10 17:00 | <input type="checkbox"/> |
| 28 | L78WD     | G0J090500-4 | 0287352 | 2A | 1.0           | 10/14/10 17:03 | <input type="checkbox"/> |
| 29 | L78WE     | G0J090500-5 | 0287352 | 2A | 1.0           | 10/14/10 17:05 | <input type="checkbox"/> |
| 30 | L78WF     | G0J090500-6 | 0287352 | 2A | 1.0           | 10/14/10 17:08 | <input type="checkbox"/> |
| 31 | CCV 5     |             |         |    | 1.0           | 10/14/10 17:11 | <input type="checkbox"/> |
| 32 | CCB 5     |             |         |    | 1.0           | 10/14/10 17:14 | <input type="checkbox"/> |

Method: 6020 (SOP: SAC-MT-001)

M02 (M02)

Reported: 10/15/10 09:01:21

File ID: 101014A2

Analyst: ioneseb

Germanium

| #  | Sample ID | Analyzed Date  |  | Q   |
|----|-----------|----------------|--|---|
| 1  | Rinse 3X  | 10/14/10 15:40 |  | 98.6 <input type="checkbox"/>             |
| 2  | Blank     | 10/14/10 15:43 |  | 100.0 <input checked="" type="checkbox"/> |
| 3  | Standard1 | 10/14/10 15:45 |  | 100.8 <input checked="" type="checkbox"/> |
| 4  | ICV       | 10/14/10 15:48 |  | 98.9 <input checked="" type="checkbox"/>  |
| 5  | ICB       | 10/14/10 15:51 |  | 99.0 <input checked="" type="checkbox"/>  |
| 6  | LLSTD1    | 10/14/10 15:54 |  | 99.8 <input checked="" type="checkbox"/>  |
| 7  | LLSTD2    | 10/14/10 15:57 |  | 98.2 <input checked="" type="checkbox"/>  |
| 8  | ICSA      | 10/14/10 16:00 |  | 84.5 <input checked="" type="checkbox"/>  |
| 9  | ICSAB     | 10/14/10 16:02 |  | 87.0 <input checked="" type="checkbox"/>  |
| 10 | Rinse     | 10/14/10 16:10 |  | 102.0 <input checked="" type="checkbox"/> |
| 11 | CCV 1     | 10/14/10 16:16 |  | 101.7 <input checked="" type="checkbox"/> |
| 12 | CCB 1     | 10/14/10 16:19 |  | 101.1 <input checked="" type="checkbox"/> |
| 13 | CCV 2     | 10/14/10 16:22 |  | 99.6 <input checked="" type="checkbox"/>  |
| 14 | CCB 2     | 10/14/10 16:24 |  | 101.3 <input checked="" type="checkbox"/> |
| 15 | XXXXX     | 10/14/10 16:27 |  | 60.7 <input type="checkbox"/>             |
| 16 | L8GKNC    | 10/14/10 16:30 |  | 98.7 <input checked="" type="checkbox"/>  |
| 17 | L8GKNL    | 10/14/10 16:33 |  | 96.7 <input checked="" type="checkbox"/>  |
| 18 | L78V9     | 10/14/10 16:35 |  | 97.8 <input checked="" type="checkbox"/>  |
| 19 | L78V9P5   | 10/14/10 16:38 |  | 98.6 <input type="checkbox"/>             |
| 20 | L78V9Z    | 10/14/10 16:41 |  | 96.4 <input checked="" type="checkbox"/>  |
| 21 | CCV 3     | 10/14/10 16:43 |  | 95.7 <input checked="" type="checkbox"/>  |
| 22 | CCB 3     | 10/14/10 16:46 |  | 100.0 <input checked="" type="checkbox"/> |
| 23 | CCV 4     | 10/14/10 16:49 |  | 97.8 <input checked="" type="checkbox"/>  |
| 24 | CCB 4     | 10/14/10 16:52 |  | 97.5 <input checked="" type="checkbox"/>  |
| 25 | L8GKNB    | 10/14/10 16:54 |  | 99.9 <input checked="" type="checkbox"/>  |
| 26 | L78WA     | 10/14/10 16:57 |  | 101.0 <input checked="" type="checkbox"/> |
| 27 | L78WC     | 10/14/10 17:00 |  | 101.0 <input checked="" type="checkbox"/> |
| 28 | L78WD     | 10/14/10 17:03 |  | 100.4 <input checked="" type="checkbox"/> |
| 29 | L78WE     | 10/14/10 17:05 |  | 100.3 <input checked="" type="checkbox"/> |
| 30 | L78WF     | 10/14/10 17:08 |  | 101.3 <input checked="" type="checkbox"/> |
| 31 | CCV 5     | 10/14/10 17:11 |  | 99.7 <input checked="" type="checkbox"/>  |
| 32 | CCB 5     | 10/14/10 17:14 |  | 100.5 <input checked="" type="checkbox"/> |

**TAL-W.Sacramento Elan 6000 ICPMS M02**

**Quantitative Method Report**

File Name: 0287352.mth  
 File Path: E:\elandata\Method\0287352.mth

**Timing Parameters**

Sweeps/Reading: 50  
 Readings/Replicate: 1  
 Number of Replicates: 3  
 Tuning File: default.tun  
 Optimization File: default.dac  
 QC Enabled: Yes  
 Settling Time: Normal

| Analyte | Mass    | Scan Mode    | MCA Channels | Dwell Time | Integration Time |
|---------|---------|--------------|--------------|------------|------------------|
| Sc      | 44.956  | Peak Hopping | 1            | 14.0 ms    | 700 ms           |
| Ca      | 43.956  | Peak Hopping | 1            | 14.0 ms    | 700 ms           |
| Mn      | 54.938  | Peak Hopping | 1            | 14.0 ms    | 700 ms           |
| As      | 74.922  | Peak Hopping | 1            | 20.0 ms    | 1000 ms          |
| Ge-1    | 71.922  | Peak Hopping | 1            | 14.0 ms    | 700 ms           |
| Pd      | 105.903 | Peak Hopping | 1            | 14.0 ms    | 700 ms           |
| Kr      | 82.914  | Peak Hopping | 1            | 14.0 ms    | 700 ms           |

**Signal Processing**

Detector Mode: Dual  
 Measurement Units: Counts  
 AutoLens: On  
 Spectral Peak Processing: Average  
 Signal Profile Processing: Average  
 Blank Subtraction: After Internal Standard  
 Baseline Readings: 0  
 Smoothing: Yes, Factor 5

**Equations**

| Analyte | Mass   | Corrections                      |
|---------|--------|----------------------------------|
| As      | 74.922 | -3.1278 * Se 77 + 1.0177 * Se 78 |

**Calibration Information**

| Analyte | Mass    | Curve Type       | Sample Units | Std Units | Std 1    | Std 2 | Std 3 | Std 4 |
|---------|---------|------------------|--------------|-----------|----------|-------|-------|-------|
| Sc      | 44.956  | Linear Thru Zero | ug/L         | ug/L      |          |       |       |       |
| Ca      | 43.956  | Linear Thru Zero | ug/L         | ug/L      | 5.1e+003 |       |       |       |
| Mn      | 54.938  | Linear Thru Zero | ug/L         | ug/L      | 100      |       |       |       |
| As      | 74.922  | Linear Thru Zero | ug/L         | ug/L      | 100      |       |       |       |
| Ge-1    | 71.922  | Linear Thru Zero | ug/L         | ug/L      |          |       |       |       |
| Pd      | 105.903 | Linear Thru Zero | ug/L         | ug/L      | 100      |       |       |       |
| Kr      | 82.914  | Linear Thru Zero | ug/L         | ug/L      | 100      |       |       |       |

**TAL-W. SACRAMENTO – Perkin Elmer Elan 6000 ICPMS, M02 – Methods 6020, 200.8**

**AIR TOX Standards - 4 % HNO<sub>3</sub>, 0.5 % HCl**

**Standards for run:**

Tuning standard: 4075-6A

Internal standard: 4075-14B

Blank, CCBs: 3185-40E

Standard 1, CCVs: 4075-14C

ICV: 4075-8E

ICSA: 4075-17B

ICSAB: 4075-17C

File Number: 101014A2

### Instrument Tuning Report

File Name: default.tun

#### Sample Information

Sample Date/Time: Thursday, October 14, 2010 12:53:43

Sample ID: TUNE BJONES

| Analyte | Exact Mass | Meas. Mass | Mass DAC | Meas. Pk. Width | Res. DAC | Custom Res. |
|---------|------------|------------|----------|-----------------|----------|-------------|
| Li      | 7.016      | 7.027      | 1566     | 0.734           | 2042     |             |
| Be      | 9.012      | 8.978      | 2051     | 0.731           | 2038     |             |
| Mg      | 23.985     | 24.078     | 5726     | 0.740           | 2010     |             |
| Co      | 58.933     | 58.879     | 14249    | 0.735           | 1955     |             |
| In      | 114.904    | 114.878    | 27914    | 0.728           | 1937     |             |
| Ce      | 139.905    | 139.879    | 33971    | 0.735           | 1984     |             |
| Tl      | 204.975    | 204.929    | 49683    | 0.727           | 2187     |             |
| Pb      | 207.977    | 207.978    | 50425    | 0.716           | 2213     |             |
| U       | 238.050    | 238.026    | 57619    | 0.708           | 2366     |             |

# Elan 6000 Instrument Optomization Report

Path e:\elandata\Optimize

File Name e:\elandata\Optimize\default.dac

## Sample Information

Sample Date/Time: Thursday, October 14, 2010 12:53:43

Sample ID: TUNE BJONES

## Parameter Settings

|                         |          |
|-------------------------|----------|
| Nebulizer Gas Flow      | 0.93     |
| Lens Voltage            | 6.50     |
| ICP RF Power            | 1100.00  |
| Analog Stage Voltage    | -2000.00 |
| Pulse Stage Voltage     | 1350.00  |
| Discriminator Threshold | 70.00    |
| AC Rod Offset           | -7.00    |
| Service DAC 1           | 60.00    |
| Quadrupole Rod Offset   | 0.00     |

## AutoLens Calibration

Date: 12:59:29 Thu 14-Oct-10  
 Sample Filename: AUTOLENS BJONES.002  
 Dataset Pathname: 101014A2\  
  
 Lens Voltage Start: 4.00  
 Lens Voltage End: 8.00  
 Lens Voltage Step: 0.25  
 Slope: 0.01174666  
 Intercept: 4.95071159

| Analyte | Mass    | Optimum Voltage | Maximum Intensity | # Points |
|---------|---------|-----------------|-------------------|----------|
| Be      | 9.012   | 5.0             | 3896.8            | 17       |
| Co      | 58.933  | 5.8             | 189765.6          | 17       |
| In      | 114.904 | 6.3             | 504049.7          | 17       |

## Dual Detector Calibration

Date: 12:36:25 Thu 07-Oct-10  
 Sample Filename: DUAL BJONES.1087  
 Dataset Pathname: dual detector calibration\  
  
 Points Acquired: 37  
 Lens Vol Start: -3.00  
 Lens Vol End: 15.00  
 Lens Vol Step: 0.50

| Analyte | Mass   | Gain     | N(max)         |
|---------|--------|----------|----------------|
| Li      | 6.015  | 10148.51 | 1233639207.946 |
| Li      | 7.016  | 9525.41  | 1314337231.125 |
| Be      | 9.012  | 8906.66  | 1405646187.191 |
| B       | 11.009 | 9150.39  | 1368204371.097 |



TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS, M02 - Methods 6020, 200.8

|    |         |         |                |
|----|---------|---------|----------------|
| Na | 22.990  | 9217.94 | 1358178282.022 |
| Mg | 23.985  | 8591.65 | 1457182243.442 |
| Mg | 24.986  | 8419.04 | 1487059053.411 |
| Al | 26.982  | 8024.15 | 1560240856.403 |
| Si | 27.977  | 8923.39 | 1403010310.671 |
| P  | 30.994  | 7501.83 | 1668872968.155 |
| K  | 38.964  | 7138.71 | 1753763196.245 |
| Ca | 42.959  | 6882.37 | 1819083350.489 |
| Ca | 43.956  | 7086.12 | 1766779769.645 |
| Sc | 44.956  | 7142.45 | 1752844111.963 |
| V  | 50.944  | 7041.09 | 1778078418.215 |
| Cr | 51.941  | 6733.43 | 1859321614.552 |
| Fe | 53.940  | 6633.92 | 1887211171.050 |
| Mn | 54.938  | 6573.33 | 1904606917.421 |
| Fe | 56.935  | 6479.61 | 1932153374.146 |
| Co | 58.933  | 6344.11 | 1973421692.662 |
| Ni | 59.933  | 6207.92 | 2016714887.145 |
| Cu | 62.930  | 6068.38 | 2063088933.690 |
| Cu | 64.928  | 5994.76 | 2088424494.126 |
| Zn | 67.925  | 6066.92 | 2063586009.604 |
| Ge | 71.922  | 6181.93 | 2025193380.543 |
| As | 74.922  | 6121.22 | 2045278701.131 |
| Se | 77.917  | 6185.35 | 2024075455.062 |
| Br | 78.918  | 6080.83 | 2058864349.835 |
| Se | 81.917  | 6040.95 | 2072455299.965 |
| Sr | 87.906  |         |                |
| Mo | 96.906  | 6155.18 | 2033994857.659 |
| Ag | 106.905 | 5620.68 | 2227419189.019 |
| Ag | 108.905 | 5579.08 | 2244026679.226 |
| Cd | 110.904 | 5665.26 | 2209892054.912 |
| Cd | 113.904 | 5659.10 | 2212295953.887 |
| In | 114.904 | 5674.34 | 2206355936.656 |
| Sn | 117.902 | 5717.58 | 2189669795.590 |
| Sb | 120.904 | 5726.43 | 2186284673.927 |
| Ba | 134.906 | 5589.91 | 2239680393.815 |
| Ho | 164.930 |         |                |
| Tm | 168.934 | 5402.70 | 2317287407.902 |
| Tl | 204.975 | 5126.46 | 2442155404.797 |
| Pb | 207.977 | 5134.56 | 2438300475.585 |
| U  | 238.050 | 5130.38 | 2440286302.243 |

### Daily Performance Report

Sample ID: DAILY BJONES  
 Sample Date/Time: Thursday, October 14, 2010 13:02:48  
 Sample Description:  
 Sample File: E:\elandata\Sample\0286242X.sam  
 Method File: E:\elandata\Method\000daily.mth  
 Dataset File: E:\elandata\Dataset\101014A2\DAILY BJONES.003  
 Tuning File: e:\elandata\Tuning\default.tun  
 Optimization File: E:\elandata\Optimize\default.dac  
 Number of Replicates: 5  
 Dual Detector Mode: Dual

### Summary

| Analyte | Mass | Net Intens. | Mean       | Net Intens. | RSD   |
|---------|------|-------------|------------|-------------|-------|
| Mg      | 24   |             | 54172.370  |             | 1.111 |
| Rh      | 103  |             | 390865.005 |             | 1.198 |
| Pb      | 208  |             | 276770.213 |             | 1.335 |
| [> Ba   | 138  |             | 425515.855 |             | 0.987 |
| [ Ba++  | 69   |             | 0.022      |             | 2.115 |
| [> Ce   | 140  |             | 543733.936 |             | 0.898 |
| [ CeO   | 156  |             | 0.026      |             | 2.031 |
| Bkgd    | 220  |             | 3.143      | 103.652     |       |
| Li      | 7    |             | 15290.568  |             | 2.393 |
| Be      | 9    |             | 3885.402   |             | 3.386 |
| Co      | 59   |             | 181596.257 |             | 1.071 |
| In      | 115  |             | 495528.033 |             | 0.811 |
| Tl      | 205  |             | 413989.651 |             | 0.941 |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L78V9 N.I.**

Sample Description: G0J090500-1 N.I.

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 15:33:42

Method File: E:\elandata\Method\000LISCGEYRH....mith

Dataset File: E:\elandata\Dataset\101014A2\L78V9 N.I..004

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 11

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|------------|-----------|--------------------|-------------|-----------------|
| 6 Li         |            |           | 644.785            | ug/L        | 0.000           |
| 45 Sc        |            |           | 25830.321          | ug/L        | 0.000           |
| 69 Ga        |            |           | 13275.877          | mg/L        | 0.000           |
| 72 Ge        |            |           | 2542.260           | ug/L        | 0.000           |
| 89 Y         |            |           | 7217.626           | ug/L        | 0.000           |
| 103 Rh       |            |           | 29.048             | ug/L        | 0.000           |
| 115 In       |            |           | 37380.382          | ug/L        | 0.000           |
| 165 Ho       |            |           | 357.150            | ug/L        | 0.000           |
| 169 Tm       |            |           | 3318.229           | ug/L        | 0.000           |
| 209 Bi       |            |           | 972.433            | ug/L        | 0.000           |
| 133 Cs       |            |           | 2632.286           | mg/L        | 0.000           |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Li      | 6    |                    |
| Sc      | 45   |                    |
| Ga      | 69   |                    |
| Ge      | 72   |                    |
| Y       | 89   |                    |
| Rh      | 103  |                    |
| In      | 115  |                    |
| Ho      | 165  |                    |
| Tm      | 169  |                    |
| Bi      | 209  |                    |
| Cs      | 133  |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: Rinse 3X**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 15:40:25

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\Rinse 3X.005

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |            |           | 1508588.704        | ug/L        | 0.000           |
| [ 44 Ca      |            |           | 21919.019          | ug/L        | 0.000           |
| 55 Mn        |            |           | 2477.816           | ug/L        | 0.000           |
| 75 As        |            |           | 26682.357          | ug/L        | 0.000           |
| [> 72 Ge-1   |            |           | 1586770.487        | ug/L        | 0.000           |
| 106 Pd       |            |           | 13.333             | ug/L        | 0.000           |
| 83 Kr        |            |           | 1452.166           | ug/L        | 0.000           |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   |                    |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: Blank

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 15:43:11

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\Blank.006

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|   | Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|---|--------------|------------|-----------|--------------------|-------------|-----------------|
|   | 45 Sc        |            |           | 1520835.877        | ug/L        |                 |
|   | 44 Ca        |            |           | 21338.385          | ug/L        |                 |
|   | 55 Mn        |            |           | 2486.819           | ug/L        |                 |
|   | 75 As        |            |           | 26532.976          | ug/L        |                 |
| > | 72 Ge-1      |            |           | 1609975.980        | ug/L        |                 |
|   | 106 Pd       |            |           | 7.333              | ug/L        |                 |
|   | 83 Kr        |            |           | 1347.143           | ug/L        |                 |

**Internal Standard Recoveries**

|   | Analyte | Mass | Int Std % Recovery |
|---|---------|------|--------------------|
|   | Sc      | 45   |                    |
|   | Ca      | 44   |                    |
|   | Mn      | 55   |                    |
|   | As      | 75   |                    |
| > | Ge-1    | 72   |                    |
|   | Pd      | 106  |                    |
|   | Kr      | 83   |                    |

TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT

Sample ID: Standard 1

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 15:45:51

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\Standard 1.007

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

Sample Result Summary

| Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|-------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |             |           | 1565237.012        | ug/L        | 1520835.877     |
| 44 Ca        | 5100.000000 | 2.495     | 1815177.573        | ug/L        | 21338.385       |
| 55 Mn        | 100.000000  | 2.662     | 1922274.131        | ug/L        | 2486.819        |
| 75 As        | 100.000000  | 2.967     | 314632.751         | ug/L        | 26532.976       |
| 72 Ge-1      |             |           | 1622227.425        | ug/L        | 1609975.980     |
| 106 Pd       | 100.000000  | 1.263     | 24197.590          | ug/L        | 7.333           |
| 83 Kr        | 100.000000  | 155.420   | 1389.152           | ug/L        | 1347.143        |

Internal Standard Recoveries

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| Ca      | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| Ge-1    | 72   |                    |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: ICV**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 15:48:30

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\ICV .008

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 3

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |            |           | 1535187.390        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 835.626757 | 0.781     | 309654.647         | ug/L        | 21338.385       |
|    | 55 Mn        | 82.434421  | 0.202     | 1556311.847        | ug/L        | 2486.819        |
|    | 75 As        | 83.633413  | 0.605     | 262659.260         | ug/L        | 26532.976       |
| [> | 72 Ge-1      |            |           | 1592229.052        | ug/L        | 1609975.980     |
|    | 106 Pd       | 82.181968  | 0.877     | 19887.362          | ug/L        | 7.333           |
|    | 83 Kr        | -86.507872 | 107.808   | 1310.802           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 98.898             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: ICB**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 15:51:15

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\ICB.009

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|     | Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|-----|--------------|------------|-----------|--------------------|-------------|-----------------|
|     | 45 Sc        |            |           | 1533986.866        | ug/L        | 1520835.877     |
| [   | 44 Ca        | 5.634432   | 10.215    | 23067.735          | ug/L        | 21338.385       |
|     | 55 Mn        | 0.025791   | 17.339    | 2947.683           | ug/L        | 2486.819        |
|     | 75 As        | 0.038448   | 156.673   | 26370.836          | ug/L        | 26532.976       |
| ] > | 72 Ge-1      |            |           | 1593589.738        | ug/L        | 1609975.980     |
|     | 106 Pd       | -0.008268  | 160.728   | 5.333              | ug/L        | 7.333           |
|     | 83 Kr        | 140.476080 | 68.786    | 1406.155           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte  | Mass | Int Std % Recovery |
|----------|------|--------------------|
| Sc       | 45   |                    |
| [ Ca     | 44   |                    |
| Mn       | 55   |                    |
| As       | 75   |                    |
| ] > Ge-1 | 72   | 98.982             |
| Pd       | 106  |                    |
| Kr       | 83   |                    |



**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: LLSTD1**

Sample Description: LLSTD@10X

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 15:54:33

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\LLSTD1.010

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 71

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|     | Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|-----|--------------|------------|-----------|--------------------|-------------|-----------------|
|     | 45 Sc        |            |           | 1544467.487        | ug/L        | 1520835.877     |
| [   | 44 Ca        | 57.056480  | 3.057     | 41165.054          | ug/L        | 21338.385       |
|     | 55 Mn        | 1.358411   | 0.734     | 28312.845          | ug/L        | 2486.819        |
|     | 75 As        | 1.001089   | 46.141    | 29323.178          | ug/L        | 26532.976       |
| ] > | 72 Ge-1      |            |           | 1606363.307        | ug/L        | 1609975.980     |
|     | 106 Pd       | 1.018337   | 1.919     | 253.672            | ug/L        | 7.333           |
|     | 83 Kr        | -35.714704 | 127.713   | 1332.139           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte  | Mass | Int Std % Recovery |
|----------|------|--------------------|
| Sc       | 45   |                    |
| [ Ca     | 44   |                    |
| Mn       | 55   |                    |
| As       | 75   |                    |
| ] > Ge-1 | 72   | 99.776             |
| Pd       | 106  |                    |
| Kr       | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: LLSTD2**

Sample Description: LLSTD@5X

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 15:57:17

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\LLSTD2.011

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 72

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |            |           | 1504402.846        | ug/L        | 1520835.877     |
| [ 44 Ca      | 110.454723 | 1.775     | 58800.417          | ug/L        | 21338.385       |
| 55 Mn        | 2.325965   | 1.669     | 45953.329          | ug/L        | 2486.819        |
| 75 As        | 2.229319   | 4.256     | 32302.111          | ug/L        | 26532.976       |
| [> 72 Ge-1   |            |           | 1580378.429        | ug/L        | 1609975.980     |
| 106 Pd       | 2.083569   | 4.465     | 511.354            | ug/L        | 7.333           |
| 83 Kr        | 218.254782 | 62.728    | 1438.829           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 98.162             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: ICSA**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:00:01

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\ICSA .012

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 2

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean   | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|--------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |              |           | 1247227.153        | ug/L        | 1520835.877     |
| [ 44 Ca      | 99970.836664 | 1.161     | 29507283.396       | ug/L        | 21338.385       |
| 55 Mn        | 6.368737     | 1.815     | 104649.951         | ug/L        | 2486.819        |
| 75 As        | 0.367805     | 109.916   | 23299.636          | ug/L        | 26532.976       |
| [> 72 Ge-1   |              |           | 1360245.320        | ug/L        | 1609975.980     |
| 106 Pd       | 1.202993     | 10.874    | 298.340            | ug/L        | 7.333           |
| 83 Kr        | 655.567875   | 21.842    | 1622.540           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 84.489             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: ICSAB**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:02:43

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\ICSAB.013

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 1

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean   | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|--------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |              |           | 1266661.084        | ug/L        | 1520835.877     |
| [ 44 Ca      | 97919.494281 | 3.160     | 29733136.743       | ug/L        | 21338.385       |
| 55 Mn        | 102.360016   | 2.187     | 1697966.987        | ug/L        | 2486.819        |
| 75 As        | 101.348912   | 2.398     | 274867.519         | ug/L        | 26532.976       |
| ] 72 Ge-1    |              |           | 1399877.298        | ug/L        | 1609975.980     |
| 106 Pd       | 84.497384    | 1.073     | 20447.467          | ug/L        | 7.333           |
| 83 Kr        | 975.425411   | 12.690    | 1756.909           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| ] Ge-1  | 72   | 86.950             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: Rinse**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:10:08

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\Rinse.014

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 6

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |            |           | 1600577.156        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 9.790673   | 16.651    | 25250.666          | ug/L        | 21338.385       |
|    | 55 Mn        | 0.018866   | 22.740    | 2902.995           | ug/L        | 2486.819        |
|    | 75 As        | -0.051279  | 297.318   | 26914.693          | ug/L        | 26532.976       |
| [> | 72 Ge-1      |            |           | 1642505.861        | ug/L        | 1609975.980     |
|    | 106 Pd       | -0.005512  | 343.693   | 6.000              | ug/L        | 7.333           |
|    | 83 Kr        | 42.062934  | 154.535   | 1364.813           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

|    | Analyte | Mass | Int Std % Recovery |
|----|---------|------|--------------------|
|    | Sc      | 45   |                    |
| [  | Ca      | 44   |                    |
|    | Mn      | 55   |                    |
|    | As      | 75   |                    |
| [> | Ge-1    | 72   | 102.021            |
|    | Pd      | 106  |                    |
|    | Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: CCV 1**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:16:33

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\CCV 1.015

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|-------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |             |           | 1577370.066        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 5206.754954 | 3.747     | 1869041.351        | ug/L        | 21338.385       |
|    | 55 Mn        | 99.924482   | 3.992     | 1937625.064        | ug/L        | 2486.819        |
|    | 75 As        | 98.141981   | 3.644     | 312045.364         | ug/L        | 26532.976       |
| [> | 72 Ge-1      |             |           | 1637416.475        | ug/L        | 1609975.980     |
|    | 106 Pd       | 97.759284   | 0.856     | 23655.555          | ug/L        | 7.333           |
|    | 83 Kr        | 53.174108   | 155.777   | 1369.481           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 101.704            |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: CCB 1**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:19:18

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\CCB 1.016

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean             | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|------------------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |                        |           | 1578944.898        | ug/L        | 1520835.877     |
| [ 44 Ca      | 8.896156               | 10.766    | 24713.901          | ug/L        | 21338.385       |
| 55 Mn        | 0.029811               | 6.321     | 3088.750           | ug/L        | 2486.819        |
| 75 As        | -0.042504              | 387.399   | 26702.113          | ug/L        | 26532.976       |
| [> 72 Ge-1   |                        |           | 1627744.004        | ug/L        | 1609975.980     |
| 106 Pd       | 168006498998837920.000 |           | 7.333              | ug/L        | 7.333           |
| 83 Kr        | 228.572045             | 28.009    | 1443.164           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 101.104            |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: CCV 2**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:22:03

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\CCV 2.017

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|-------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |             |           | 1554012.339        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 5311.995717 | 1.429     | 1869368.021        | ug/L        | 21338.385       |
|    | 55 Mn        | 100.945017  | 1.831     | 1919531.298        | ug/L        | 2486.819        |
|    | 75 As        | 98.854504   | 1.075     | 307996.120         | ug/L        | 26532.976       |
| L> | 72 Ge-1      |             |           | 1604327.552        | ug/L        | 1609975.980     |
|    | 106 Pd       | 96.517295   | 0.800     | 23355.114          | ug/L        | 7.333           |
|    | 83 Kr        | -116.666350 | 73.554    | 1298.132           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [       | Ca   | 44                 |
|         | Mn   | 55                 |
|         | As   | 75                 |
| L>      | Ge-1 | 72                 |
|         | Pd   | 106                |
|         | Kr   | 83                 |
|         |      | 99.649             |



**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: CCB 2**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:24:48

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\CCB 2.018

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |            |           | 1580789.049        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 8.736402   | 19.524    | 24697.837          | ug/L        | 21338.385       |
|    | 55 Mn        | 0.019420   | 13.356    | 2894.325           | ug/L        | 2486.819        |
|    | 75 As        | -0.293562  | 69.116    | 26019.986          | ug/L        | 26532.976       |
| [> | 72 Ge-1      |            |           | 1631114.074        | ug/L        | 1609975.980     |
|    | 106 Pd       | 0.001378   | 916.514   | 7.667              | ug/L        | 7.333           |
|    | 83 Kr        | 42.062962  | 176.506   | 1364.813           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 101.313            |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L8GKNC**

Sample Description: G0J140000-352 LCS

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 16:30:20

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L8GKNC.020

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 86

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|-------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |             |           | 1546553.569        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 1095.555309 | 0.657     | 398517.925         | ug/L        | 21338.385       |
|    | 55 Mn        | 189.869870  | 1.026     | 3573389.771        | ug/L        | 2486.819        |
|    | 75 As        | 182.105113  | 0.317     | 539824.313         | ug/L        | 26532.976       |
| [> | 72 Ge-1      |             |           | 1588669.119        | ug/L        | 1609975.980     |
|    | 106 Pd       | 182.714141  | 0.770     | 44206.352          | ug/L        | 7.333           |
|    | 83 Kr        | -73.015970  | 107.674   | 1316.470           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 98.677             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L8GKNL**

Sample Description: G0J140000-352 LCSD

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 16:33:04

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L8GKNL.021

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 87

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|-------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |             |           | 1522319.414        | ug/L        | 1520835.877     |
| 44 Ca        | 1119.805460 | 1.604     | 398538.783         | ug/L        | 21338.385       |
| 55 Mn        | 194.419677  | 0.613     | 3584326.381        | ug/L        | 2486.819        |
| 75 As        | 182.124818  | 1.247     | 528815.400         | ug/L        | 26532.976       |
| 72 Ge-1      |             |           | 1556234.169        | ug/L        | 1609975.980     |
| 106 Pd       | 177.830382  | 0.356     | 43024.958          | ug/L        | 7.333           |
| 83 Kr        | -19.048083  | 304.129   | 1339.141           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| Ca      | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| Ge-1    | 72   | 96.662             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L78V9**

Sample Description: G0J090500-1

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 16:35:47

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L78V9.022

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 11

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|-------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |             |           | 1533690.158        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 934.824067  | 0.217     | 340176.664         | ug/L        | 21338.385       |
|    | 55 Mn        | 346.568654  | 1.478     | 6463526.610        | ug/L        | 2486.819        |
|    | 75 As        | 0.136575    | 35.610    | 26335.712          | ug/L        | 26532.976       |
| [> | 72 Ge-1      |             |           | 1574888.220        | ug/L        | 1609975.980     |
|    | 106 Pd       | 1.790040    | 7.513     | 440.349            | ug/L        | 7.333           |
|    | 83 Kr        | -223.807701 | 40.884    | 1253.123           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 97.821             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L78V9P5**

Sample Description: G0J090500-1 5X

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 16:38:30

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L78V9P5.023

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 12

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |            |           | 1531343.886        | ug/L        | 1520835.877     |
| [ 44 Ca      | 193.508377 | 1.151     | 87652.968          | ug/L        | 21338.385       |
| 55 Mn        | 66.286517  | 1.119     | 1248080.731        | ug/L        | 2486.819        |
| 75 As        | -0.570024  | 44.967    | 24550.790          | ug/L        | 26532.976       |
| > 72 Ge-1    |            |           | 1587250.419        | ug/L        | 1609975.980     |
| 106 Pd       | 0.395479   | 5.531     | 103.001            | ug/L        | 7.333           |
| 83 Kr        | -4.762128  | 2699.866  | 1345.142           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| > Ge-1  | 72   | 98.588             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L78V9Z**

Sample Description: G0J090500-1 PS

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 16:41:12

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L78V9Z.024

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 13

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|-------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |             |           | 1494433.474        | ug/L        | 1520835.877     |
| [ 44 Ca      | 2010.325141 | 1.912     | 697032.998         | ug/L        | 21338.385       |
| 55 Mn        | 548.605775  | 0.200     | 10080930.657       | ug/L        | 2486.819        |
| 75 As        | 201.883343  | 0.873     | 581735.636         | ug/L        | 26532.976       |
| [> 72 Ge-1   |             |           | 1551793.481        | ug/L        | 1609975.980     |
| 106 Pd       | 198.396830  | 1.286     | 48000.035          | ug/L        | 7.333           |
| 83 Kr        | -183.332109 | 56.370    | 1270.127           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 96.386             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: CCV 3**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:43:55

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\CCV 3.025

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|-------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |             |           | 1485285.754        | ug/L        | 1520835.877     |
| [ 44 Ca      | 5327.848133 | 0.878     | 1800343.984        | ug/L        | 21338.385       |
| 55 Mn        | 101.498701  | 1.331     | 1853296.609        | ug/L        | 2486.819        |
| 75 As        | 98.907189   | 0.346     | 295896.758         | ug/L        | 26532.976       |
| [> 72 Ge-1   |             |           | 1540454.434        | ug/L        | 1609975.980     |
| 106 Pd       | 93.563309   | 0.448     | 22640.538          | ug/L        | 7.333           |
| 83 Kr        | 57.142366   | 144.579   | 1371.148           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 95.682             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: CCB 3**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:46:40

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\CCB 3.026

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|-------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |             |           | 1538524.208        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 6.847016    | 15.607    | 23719.127          | ug/L        | 21338.385       |
|    | 55 Mn        | 0.008787    | 8.759     | 2653.220           | ug/L        | 2486.819        |
|    | 75 As        | -0.413302   | 35.455    | 25342.568          | ug/L        | 26532.976       |
| L> | 72 Ge-1      |             |           | 1609358.925        | ug/L        | 1609975.980     |
|    | 106 Pd       | 0.002756    | 396.863   | 8.000              | ug/L        | 7.333           |
|    | 83 Kr        | -235.712291 | 34.343    | 1248.122           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| L> Ge-1 | 72   | 99.962             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |



**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: CCV 4**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:49:25

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\CCV 4.027

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|-------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |             |           | 1491055.574        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 5219.476128 | 1.566     | 1804125.997        | ug/L        | 21338.385       |
|    | 55 Mn        | 99.711112   | 0.492     | 1861961.578        | ug/L        | 2486.819        |
|    | 75 As        | 97.724559   | 0.892     | 299277.793         | ug/L        | 26532.976       |
| [> | 72 Ge-1      |             |           | 1575352.330        | ug/L        | 1609975.980     |
|    | 106 Pd       | 94.069445   | 0.445     | 22762.973          | ug/L        | 7.333           |
|    | 83 Kr        | -55.555770  | 142.548   | 1323.804           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 97.849             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: CCB 4**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 16:52:10

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\CCB 4.028

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|-------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |             |           | 1486760.162        | ug/L        | 1520835.877     |
| 44 Ca        | 5.642355    | 25.544    | 22720.825          | ug/L        | 21338.385       |
| 55 Mn        | 0.014034    | 18.767    | 2685.567           | ug/L        | 2486.819        |
| 75 As        | -0.114975   | 159.404   | 25543.909          | ug/L        | 26532.976       |
| 72 Ge-1      |             |           | 1569693.354        | ug/L        | 1609975.980     |
| 106 Pd       | -0.001378   | 600.000   | 7.000              | ug/L        | 7.333           |
| 83 Kr        | -114.285101 | 129.619   | 1299.133           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| Ca      | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| Ge-1    | 72   | 97.498             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L8GKNB**

Sample Description: G0J140000-352 BLK

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 16:54:56

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L8GKNB.029

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 100

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |            |           | 1547480.209        | ug/L        | 1520835.877     |
| [ 44 Ca      | 116.191426 | 1.601     | 61842.712          | ug/L        | 21338.385       |
| 55 Mn        | 0.223650   | 3.897     | 6741.570           | ug/L        | 2486.819        |
| 75 As        | 0.067508   | 292.921   | 26695.359          | ug/L        | 26532.976       |
| [> 72 Ge-1   |            |           | 1608383.239        | ug/L        | 1609975.980     |
| 106 Pd       | -0.005512  | 326.918   | 6.000              | ug/L        | 7.333           |
| 83 Kr        | -34.921090 | 68.971    | 1332.473           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 99.901             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L78WA**

Sample Description: G0J090500-2

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 16:57:41

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L78WA.030

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 14

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |            |           | 1553925.609        | ug/L        | 1520835.877     |
| [ 44 Ca      | 983.930930 | 1.283     | 368382.012         | ug/L        | 21338.385       |
| 55 Mn        | 61.706880  | 1.454     | 1189826.827        | ug/L        | 2486.819        |
| 75 As        | -0.000664  | 18854.226 | 26785.346          | ug/L        | 26532.976       |
| [> 72 Ge-1   |            |           | 1625502.564        | ug/L        | 1609975.980     |
| 106 Pd       | 1.393162   | 6.638     | 344.343            | ug/L        | 7.333           |
| 83 Kr        | -73.015721 | 181.038   | 1316.470           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 100.964            |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L78WC**

Sample Description: G0J090500-3

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 17:00:24

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L78WC.031

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 15

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|-------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |             |           | 1538693.103        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 1628.672856 | 0.630     | 595671.819         | ug/L        | 21338.385       |
|    | 55 Mn        | 765.053717  | 0.557     | 14723662.973       | ug/L        | 2486.819        |
|    | 75 As        | 0.288683    | 111.858   | 27615.934          | ug/L        | 26532.976       |
| [> | 72 Ge-1      |             |           | 1625423.455        | ug/L        | 1609975.980     |
|    | 106 Pd       | 2.773994    | 4.142     | 678.370            | ug/L        | 7.333           |
|    | 83 Kr        | -111.904170 | 132.719   | 1300.133           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 100.959            |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L78WD**

Sample Description: G0J090500-4

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 17:03:08

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L78WD.032

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 16

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|-------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |             |           | 1556682.706        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 1741.258101 | 2.867     | 631685.225         | ug/L        | 21338.385       |
|    | 55 Mn        | 221.318164  | 0.476     | 4236520.333        | ug/L        | 2486.819        |
|    | 75 As        | 0.367997    | 20.046    | 27688.120          | ug/L        | 26532.976       |
| [> | 72 Ge-1      |             |           | 1616019.956        | ug/L        | 1609975.980     |
|    | 106 Pd       | 1.977457    | 8.661     | 485.685            | ug/L        | 7.333           |
|    | 83 Kr        | -138.887929 | 114.810   | 1288.797           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 100.375            |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L78WE**

Sample Description: G0J090500-5

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 17:05:51

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L78WE.033

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 17

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|-------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |             |           | 1541098.716        | ug/L        | 1520835.877     |
| 44 Ca        | 2329.157435 | 1.794     | 836796.859         | ug/L        | 21338.385       |
| 55 Mn        | 115.168762  | 0.622     | 2203342.528        | ug/L        | 2486.819        |
| 75 As        | 0.488143    | 37.970    | 27998.095          | ug/L        | 26532.976       |
| 72 Ge-1      |             |           | 1614163.517        | ug/L        | 1609975.980     |
| 106 Pd       | 3.767633    | 8.651     | 918.733            | ug/L        | 7.333           |
| 83 Kr        | -58.730427  | 91.582    | 1322.471           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| Ca      | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| Ge-1    | 72   | 100.260            |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: L78WF**

Sample Description: G0J090500-6

Batch ID: 287352

Sample Date/Time: Thursday, October 14, 2010 17:08:35

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\L78WF.034

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 18

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|-------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |             |           | 1553300.241        | ug/L        | 1520835.877     |
| 44 Ca        | 1916.102303 | 0.812     | 699328.020         | ug/L        | 21338.385       |
| 55 Mn        | 445.645309  | 0.654     | 8606546.666        | ug/L        | 2486.819        |
| 75 As        | 0.317449    | 107.314   | 27794.482          | ug/L        | 26532.976       |
| 72 Ge-1      |             |           | 1630850.375        | ug/L        | 1609975.980     |
| 106 Pd       | 3.009652    | 3.492     | 735.376            | ug/L        | 7.333           |
| 83 Kr        | 119.049354  | 264.322   | 1397.154           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| Ca      | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| Ge-1    | 72   | 101.297            |
| Pd      | 106  |                    |
| Kr      | 83   |                    |



**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: CCV 5**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 17:11:20

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\CCV 5.035

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 4

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

|    | Mass Analyte | Conc. Mean  | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|----|--------------|-------------|-----------|--------------------|-------------|-----------------|
|    | 45 Sc        |             |           | 1510752.387        | ug/L        | 1520835.877     |
| [  | 44 Ca        | 5145.035373 | 0.086     | 1812739.049        | ug/L        | 21338.385       |
|    | 55 Mn        | 97.355781   | 1.434     | 1852736.138        | ug/L        | 2486.819        |
|    | 75 As        | 98.242644   | 0.441     | 306484.114         | ug/L        | 26532.976       |
| [> | 72 Ge-1      |             |           | 1605466.731        | ug/L        | 1609975.980     |
|    | 106 Pd       | 94.563144   | 0.323     | 22882.400          | ug/L        | 7.333           |
|    | 83 Kr        | -11.905314  | 192.863   | 1342.142           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 99.720             |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

**TAL-W.SACRAMENTO - Perkin Elmer Elan 6000 ICPMS M02 - Method 6020 - QUANTITATIVE ANALYSIS REPORT**

**Sample ID: CCB 5**

Sample Description:

Batch ID:

Sample Date/Time: Thursday, October 14, 2010 17:14:05

Method File: E:\elandata\Method\0287352.mth

Dataset File: E:\elandata\Dataset\101014A2\CCB 5.036

Tuning File: e:\elandata\Tuning\default.tun

Optimization File: E:\elandata\Optimize\default.dac

Autosampler Position: 5

Number of Replicates: 3

Dual Detector Mode: Dual

Initial Sample Quantity (mg):

Sample Prep Volume (mL):

**Sample Result Summary**

| Mass Analyte | Conc. Mean | Conc. RSD | Meas. Intens. Mean | Sample Unit | Blank Intensity |
|--------------|------------|-----------|--------------------|-------------|-----------------|
| 45 Sc        |            |           | 1519060.196        | ug/L        | 1520835.877     |
| [ 44 Ca      | 8.459382   | 7.043     | 24401.029          | ug/L        | 21338.385       |
| 55 Mn        | 0.000003   | 63640.299 | 2498.157           | ug/L        | 2486.819        |
| 75 As        | -0.404686  | 14.243    | 25491.624          | ug/L        | 26532.976       |
| [> 72 Ge-1   |            |           | 1617306.806        | ug/L        | 1609975.980     |
| 106 Pd       | 0.012402   | 150.308   | 10.333             | ug/L        | 7.333           |
| 83 Kr        | 10.317251  | 1330.168  | 1351.477           | ug/L        | 1347.143        |

**Internal Standard Recoveries**

| Analyte | Mass | Int Std % Recovery |
|---------|------|--------------------|
| Sc      | 45   |                    |
| [ Ca    | 44   |                    |
| Mn      | 55   |                    |
| As      | 75   |                    |
| [> Ge-1 | 72   | 100.455            |
| Pd      | 106  |                    |
| Kr      | 83   |                    |

Method: 6020 (SOP: SAC-MT-001) Instrument: M02 Reported: 10/15/10 09:01:21

File ID: 101014A2

Analyst: ioneshb

| #  | Sample ID | Lot No.     | Batch   | DF | Analyzed Date | Comment        | Q                        |
|----|-----------|-------------|---------|----|---------------|----------------|--------------------------|
| 1  | Rinse 3X  |             |         |    | 3.0           | 10/14/10 15:40 | <input type="checkbox"/> |
| 2  | Blank     |             |         |    | 1.0           | 10/14/10 15:43 | <input type="checkbox"/> |
| 3  | Standard1 |             |         |    | 1.0           | 10/14/10 15:45 | <input type="checkbox"/> |
| 4  | ICV       |             |         |    | 1.0           | 10/14/10 15:48 | <input type="checkbox"/> |
| 5  | ICB       |             |         |    | 1.0           | 10/14/10 15:51 | <input type="checkbox"/> |
| 6  | LLSTD1    |             |         |    | 1.0           | 10/14/10 15:54 | <input type="checkbox"/> |
| 7  | LLSTD2    |             |         |    | 1.0           | 10/14/10 15:57 | <input type="checkbox"/> |
| 8  | ICSA      |             |         |    | 1.0           | 10/14/10 16:00 | <input type="checkbox"/> |
| 9  | ICSAB     |             |         |    | 1.0           | 10/14/10 16:02 | <input type="checkbox"/> |
| 10 | Rinse     |             |         |    | 1.0           | 10/14/10 16:10 | <input type="checkbox"/> |
| 11 | CCV 1     |             |         |    | 1.0           | 10/14/10 16:16 | <input type="checkbox"/> |
| 12 | CCB 1     |             |         |    | 1.0           | 10/14/10 16:19 | <input type="checkbox"/> |
| 13 | CCV 2     |             |         |    | 1.0           | 10/14/10 16:22 | <input type="checkbox"/> |
| 14 | CCB 2     |             |         |    | 1.0           | 10/14/10 16:24 | <input type="checkbox"/> |
| 15 | XXXXX     |             |         |    | 1.0           | 10/14/10 16:27 | <input type="checkbox"/> |
| 16 | L8GKNC    | G0J140000   | 0287352 | 2A | 1.0           | 10/14/10 16:30 | <input type="checkbox"/> |
| 17 | L8GKNL    | G0J140000   | 0287352 | 2A | 1.0           | 10/14/10 16:33 | <input type="checkbox"/> |
| 18 | L78V9     | G0J090500-1 | 0287352 | 2A | 1.0           | 10/14/10 16:35 | <input type="checkbox"/> |
| 19 | L78V9P5   | G0J090500   | 0287352 |    | 5.0           | 10/14/10 16:38 | <input type="checkbox"/> |
| 20 | L78V9Z    | G0J090500-1 | 0287352 |    | 1.0           | 10/14/10 16:41 | <input type="checkbox"/> |
| 21 | CCV 3     |             |         |    | 1.0           | 10/14/10 16:43 | <input type="checkbox"/> |
| 22 | CCB 3     |             |         |    | 1.0           | 10/14/10 16:46 | <input type="checkbox"/> |
| 23 | CCV 4     |             |         |    | 1.0           | 10/14/10 16:49 | <input type="checkbox"/> |
| 24 | CCB 4     |             |         |    | 1.0           | 10/14/10 16:52 | <input type="checkbox"/> |
| 25 | L8GKNB    | G0J140000   | 0287352 | 2A | 1.0           | 10/14/10 16:54 | <input type="checkbox"/> |
| 26 | L78WA     | G0J090500-2 | 0287352 | 2A | 1.0           | 10/14/10 16:57 | <input type="checkbox"/> |
| 27 | L78WC     | G0J090500-3 | 0287352 | 2A | 1.0           | 10/14/10 17:00 | <input type="checkbox"/> |
| 28 | L78WD     | G0J090500-4 | 0287352 | 2A | 1.0           | 10/14/10 17:03 | <input type="checkbox"/> |
| 29 | L78WE     | G0J090500-5 | 0287352 | 2A | 1.0           | 10/14/10 17:05 | <input type="checkbox"/> |
| 30 | L78WF     | G0J090500-6 | 0287352 | 2A | 1.0           | 10/14/10 17:08 | <input type="checkbox"/> |
| 31 | CCV 5     |             |         |    | 1.0           | 10/14/10 17:11 | <input type="checkbox"/> |
| 32 | CCB 5     |             |         |    | 1.0           | 10/14/10 17:14 | <input type="checkbox"/> |

Method: 6020 (SOP: SAC-MT-001)

M02 (M02)

Reported: 10/15/10 09:01:21

File ID: 101014A2

Analyst: ioneseb

Germanium

| #  | Sample ID | Analyzed Date  |       | Q                                   |
|----|-----------|----------------|-------|-------------------------------------|
| 1  | Rinse 3X  | 10/14/10 15:40 | 98.6  | <input type="checkbox"/>            |
| 2  | Blank     | 10/14/10 15:43 | 100.0 | <input checked="" type="checkbox"/> |
| 3  | Standard1 | 10/14/10 15:45 | 100.8 | <input checked="" type="checkbox"/> |
| 4  | ICV       | 10/14/10 15:48 | 98.9  | <input checked="" type="checkbox"/> |
| 5  | ICB       | 10/14/10 15:51 | 99.0  | <input checked="" type="checkbox"/> |
| 6  | LLSTD1    | 10/14/10 15:54 | 99.8  | <input checked="" type="checkbox"/> |
| 7  | LLSTD2    | 10/14/10 15:57 | 98.2  | <input checked="" type="checkbox"/> |
| 8  | ICSA      | 10/14/10 16:00 | 84.5  | <input checked="" type="checkbox"/> |
| 9  | ICSAB     | 10/14/10 16:02 | 87.0  | <input checked="" type="checkbox"/> |
| 10 | Rinse     | 10/14/10 16:10 | 102.0 | <input checked="" type="checkbox"/> |
| 11 | CCV 1     | 10/14/10 16:16 | 101.7 | <input checked="" type="checkbox"/> |
| 12 | CCB 1     | 10/14/10 16:19 | 101.1 | <input checked="" type="checkbox"/> |
| 13 | CCV 2     | 10/14/10 16:22 | 99.6  | <input checked="" type="checkbox"/> |
| 14 | CCB 2     | 10/14/10 16:24 | 101.3 | <input checked="" type="checkbox"/> |
| 15 | XXXXX     | 10/14/10 16:27 | 60.7  | <input type="checkbox"/>            |
| 16 | L8GKNC    | 10/14/10 16:30 | 98.7  | <input checked="" type="checkbox"/> |
| 17 | L8GKNL    | 10/14/10 16:33 | 96.7  | <input checked="" type="checkbox"/> |
| 18 | L78V9     | 10/14/10 16:35 | 97.8  | <input checked="" type="checkbox"/> |
| 19 | L78V9P5   | 10/14/10 16:38 | 98.6  | <input type="checkbox"/>            |
| 20 | L78V9Z    | 10/14/10 16:41 | 96.4  | <input checked="" type="checkbox"/> |
| 21 | CCV 3     | 10/14/10 16:43 | 95.7  | <input checked="" type="checkbox"/> |
| 22 | CCB 3     | 10/14/10 16:46 | 100.0 | <input checked="" type="checkbox"/> |
| 23 | CCV 4     | 10/14/10 16:49 | 97.8  | <input checked="" type="checkbox"/> |
| 24 | CCB 4     | 10/14/10 16:52 | 97.5  | <input checked="" type="checkbox"/> |
| 25 | L8GKNB    | 10/14/10 16:54 | 99.9  | <input checked="" type="checkbox"/> |
| 26 | L78WA     | 10/14/10 16:57 | 101.0 | <input checked="" type="checkbox"/> |
| 27 | L78WC     | 10/14/10 17:00 | 101.0 | <input checked="" type="checkbox"/> |
| 28 | L78WD     | 10/14/10 17:03 | 100.4 | <input checked="" type="checkbox"/> |
| 29 | L78WE     | 10/14/10 17:05 | 100.3 | <input checked="" type="checkbox"/> |
| 30 | L78WF     | 10/14/10 17:08 | 101.3 | <input checked="" type="checkbox"/> |
| 31 | CCV 5     | 10/14/10 17:11 | 99.7  | <input checked="" type="checkbox"/> |
| 32 | CCB 5     | 10/14/10 17:14 | 100.5 | <input checked="" type="checkbox"/> |

|                                |     |                             |
|--------------------------------|-----|-----------------------------|
| Method: 6020 (SOP: SAC-MT-001) | M02 | Reported: 10/15/10 09:01:33 |
|--------------------------------|-----|-----------------------------|

| Method: 6020 | Instrument: M02 | Batch: 101014A2 |                     |                          |  |
|--------------|-----------------|-----------------|---------------------|--------------------------|--|
| Sample ID    | Type            | File - Sequence | Analyzed Date       | Q                        |  |
| ICV          | ICV             | 101014A2, 4     | 10/14/2010 15:48:30 | <input type="checkbox"/> |  |
| ICB          | ICB             | 101014A2, 5     | 10/14/2010 15:51:15 | <input type="checkbox"/> |  |
| ICSA         | ICSA            | 101014A2, 8     | 10/14/2010 16:00:01 | <input type="checkbox"/> |  |
| ICSAB        | ICSAB           | 101014A2, 9     | 10/14/2010 16:02:43 | <input type="checkbox"/> |  |
| CCV 1        | CCV             | 101014A2, 11    | 10/14/2010 16:16:33 | <input type="checkbox"/> |  |
| CCB 1        | CCB             | 101014A2, 12    | 10/14/2010 16:19:18 | <input type="checkbox"/> |  |
| CCV 2        | CCV             | 101014A2, 13    | 10/14/2010 16:22:03 | <input type="checkbox"/> |  |
| CCB 2        | CCB             | 101014A2, 14    | 10/14/2010 16:24:48 | <input type="checkbox"/> |  |
| CCV 3        | CCV             | 101014A2, 21    | 10/14/2010 16:43:55 | <input type="checkbox"/> |  |
| CCB 3        | CCB             | 101014A2, 22    | 10/14/2010 16:46:40 | <input type="checkbox"/> |  |
| CCV 4        | CCV             | 101014A2, 23    | 10/14/2010 16:49:25 | <input type="checkbox"/> |  |
| CCB 4        | CCB             | 101014A2, 24    | 10/14/2010 16:52:10 | <input type="checkbox"/> |  |
| CCV 5        | CCV             | 101014A2, 31    | 10/14/2010 17:11:20 | <input type="checkbox"/> |  |
| CCB 5        | CCB             | 101014A2, 32    | 10/14/2010 17:14:05 | <input type="checkbox"/> |  |

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals)

Source: MetEdit

Sample: ICV (ICV)

Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101014A2 # 4 Method 6020\_  
 Acquired: 10/14/2010 15:48:30 M02  
 Calibrated: 10/14/2010 15:43:11 Units: ug/L

| CASN      | Analyte Name | M/S | Area    | Found  | True   | %R  | Q                                   |
|-----------|--------------|-----|---------|--------|--------|-----|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 1556312 | 82.434 | 80.000 | 103 |                                     |
| 7440-38-2 | Arsenic      | 75  | 262659  | 83.633 | 80.000 | 105 |                                     |
| CASN      | ISTD Name    | M/S | Area    | Amount |        |     | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1592229 |        |        |     | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals)

Source: MetEdit

Sample: ICB

Mult: 1.00

Diif: 1.00

1.00

Divs: 1.000

Instrument: ICPMS M02 Channel 262
File: 101014A2 # 5 Method 6020\_
Acquired: 10/14/2010 15:51:15 M02
Calibrated: 10/14/2010 15:43:11 Units: ug/L

Table with 9 columns: CASN, Analyte Name, M/S, Area, Amount, RL, MDL, %RSD, Q. Rows include Manganese, Arsenic, and Germanium.

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals)

Source: MetEdit

Sample: ICSA

Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101014A2 # 8 Method 6020\_  
 Acquired: 10/14/2010 16:00:01 M02  
 Calibrated: 10/14/2010 15:43:11 Units: ug/L

| CASN      | Analyte Name | M/S | Area    | Found   | True | %R | Q                                   |
|-----------|--------------|-----|---------|---------|------|----|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 104650  | 6.3687  |      | *  |                                     |
| 7440-38-2 | Arsenic      | 75  | 23300   | 0.36780 |      | *  | <input checked="" type="checkbox"/> |
| CASN      | ISTD Name    | M/S | Area    | Amount  |      |    | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1360245 |         |      |    | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_



Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals)

Source: MetEdit

Sample: ICSAB

Mult: 1.00

Dilf: 1.00

Divs: 1.000

|                                 |              |
|---------------------------------|--------------|
| Instrument: ICPMS M02           | Channel 262  |
| File: 101014A2 # 9              | Method 6020_ |
| Acquired: 10/14/2010 16:02:43   | M02          |
| Calibrated: 10/14/2010 15:43:11 | Units: ug/L  |

| CASN      | Analyte Name | M/S | Area    | Found  | True   | %R  | Q                                   |
|-----------|--------------|-----|---------|--------|--------|-----|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 1697967 | 102.36 | 100.00 | 102 | <input checked="" type="checkbox"/> |
| 7440-38-2 | Arsenic      | 75  | 274868  | 101.35 | 100.00 | 101 | <input checked="" type="checkbox"/> |
| CASN      | ISTD Name    | M/S | Area    | Amount |        |     | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1399877 |        |        |     | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals) Source: MetEdit

Sample: CCV 1 (CCV) Mult: 1.00 Dif: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101014A2 # 11 Method 6020\_  
 Acquired: 10/14/2010 16:16:33 M02  
 Calibrated: 10/14/2010 15:43:11 Units: ug/L

| CASN      | Analyte Name | M/S | Area    | Found  | True   | %R   | Q                                   |
|-----------|--------------|-----|---------|--------|--------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 1937625 | 99.924 | 100.00 | 99.9 |                                     |
| 7440-38-2 | Arsenic      | 75  | 312045  | 98.142 | 100.00 | 98.1 |                                     |
| CASN      | ISTD Name    | M/S | Area    | Amount |        |      | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1637416 |        |        |      | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

|                                |     |                             |
|--------------------------------|-----|-----------------------------|
| Method: 6020 (SOP: SAC-MT-001) | M02 | Reported: 10/15/10 09:01:33 |
|--------------------------------|-----|-----------------------------|

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 1

Mult: 1.00

Dif: 1.00

Divs: 1.000

|                                 |              |
|---------------------------------|--------------|
| Instrument: ICPMS M02           | Channel 262  |
| File: 101014A2 # 12             | Method 6020_ |
| Acquired: 10/14/2010 16:19:18   | M02          |
| Calibrated: 10/14/2010 15:43:11 | Units: ug/L  |

| CASN      | Analyte Name | M/S | Area    | Amount   | RL  | MDL   | %RSD | Q                                   |
|-----------|--------------|-----|---------|----------|-----|-------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 3089    | 0.02981  | 1.0 | 0.083 | 0.0  |                                     |
| 7440-38-2 | Arsenic      | 75  | 26702   | -0.04250 | 2.0 | 0.50  | 0.0  |                                     |
| CASN      | ISTD Name    | M/S | Area    | Amount   |     |       |      | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1627744 |          |     |       |      | <input checked="" type="checkbox"/> |

|              |       |
|--------------|-------|
| Reviewed by: | Date: |
|--------------|-------|

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals) Source: MetEdit

Sample: CCV 2 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101014A2 # 13 Method 6020\_  
 Acquired: 10/14/2010 16:22:03 M02  
 Calibrated: 10/14/2010 15:43:11 Units: ug/L

| CASN      | Analyte Name | M/S | Area    | Found  | True   | %R   | Q                                   |
|-----------|--------------|-----|---------|--------|--------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 1919531 | 100.95 | 100.00 | 101  |                                     |
| 7440-38-2 | Arsenic      | 75  | 307996  | 98.855 | 100.00 | 98.9 |                                     |
| CASN      | ISTD Name    | M/S | Area    | Amount |        |      | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1604328 |        |        |      | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 2

Mult: 1.00 Diff: 1.00 Divs: 1.000

|                                 |              |
|---------------------------------|--------------|
| Instrument: ICPMS M02           | Channel 262  |
| File: 101014A2 # 14             | Method 6020_ |
| Acquired: 10/14/2010 16:24:48   | M02          |
| Calibrated: 10/14/2010 15:43:11 | Units: ug/L  |

| CASN      | Analyte Name | M/S | Area    | Amount   | RL  | MDL   | %RSD | Q                                   |
|-----------|--------------|-----|---------|----------|-----|-------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 2894    | 0.01942  | 1.0 | 0.083 | 0.0  |                                     |
| 7440-38-2 | Arsenic      | 75  | 26020   | -0.29356 | 2.0 | 0.50  | 0.0  |                                     |
| CASN      | ISTD Name    | M/S | Area    | Amount   |     |       |      | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1631114 |          |     |       |      | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals) Source: MetEdit  
 Sample: CCV 3 (CCV) Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101014A2 # 21 Method 6020\_  
 Acquired: 10/14/2010 16:43:55 M02  
 Calibrated: 10/14/2010 15:43:11 Units: ug/L

| CASN      | Analyte Name | M/S | Area    | Found  | True   | %R   | Q                                   |
|-----------|--------------|-----|---------|--------|--------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 1853297 | 101.50 | 100.00 | 101  |                                     |
| 7440-38-2 | Arsenic      | 75  | 295897  | 98.907 | 100.00 | 98.9 |                                     |
| CASN      | ISTD Name    | M/S | Area    | Amount |        |      | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1540454 |        |        |      | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 3

Mult: 1.00 Dilf: 1.00 Divs: 1.000

|                                 |              |
|---------------------------------|--------------|
| Instrument: ICPMS M02           | Channel 262  |
| File: 101014A2 # 22             | Method 6020_ |
| Acquired: 10/14/2010 16:46:40   | M02          |
| Calibrated: 10/14/2010 15:43:11 | Units: ug/L  |

| CASN      | Analyte Name | M/S | Area    | Amount   | RL  | MDL   | %RSD | Q                                   |
|-----------|--------------|-----|---------|----------|-----|-------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 2653    | 0.00879  | 1.0 | 0.083 | 0.0  |                                     |
| 7440-38-2 | Arsenic      | 75  | 25343   | -0.41330 | 2.0 | 0.50  | 0.0  |                                     |
| CASN      | ISTD Name    | M/S | Area    | Amount   |     |       |      | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1609359 |          |     |       |      | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals) Source: MetEdit

Sample: CCV 4 (CCV) Mult: 1.00 Dil: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101014A2 # 23 Method 6020\_  
 Acquired: 10/14/2010 16:49:25 M02  
 Calibrated: 10/14/2010 15:43:11 Units: ug/L

| CASN      | Analyte Name | M/S | Area    | Found  | True   | %R   | Q                                   |
|-----------|--------------|-----|---------|--------|--------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 1861962 | 99.711 | 100.00 | 99.7 |                                     |
| 7440-38-2 | Arsenic      | 75  | 299278  | 97.725 | 100.00 | 97.7 |                                     |
| CASN      | ISTD Name    | M/S | Area    | Amount |        |      | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1575352 |        |        |      | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_



Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals)

Source: MetEdit

Sample: CCB 4

Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262
File: 101014A2 # 24 Method 6020\_
Acquired: 10/14/2010 16:52:10 M02
Calibrated: 10/14/2010 15:43:11 Units: ug/L

Table with 9 columns: CASN, Analyte Name, M/S, Area, Amount, RL, MDL, %RSD, Q. Rows include Manganese, Arsenic, and Germanium.

Reviewed by: Date:

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals)

Source: MetEdit

Sample: CCV 5 (CCV)

Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101014A2 # 31 Method 6020\_  
 Acquired: 10/14/2010 17:11:20 M02  
 Calibrated: 10/14/2010 15:43:11 Units: ug/L

| CASN      | Analyte Name | M/S | Area    | Found  | True   | %R   | Q                                   |
|-----------|--------------|-----|---------|--------|--------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 1852736 | 97.356 | 100.00 | 97.4 |                                     |
| 7440-38-2 | Arsenic      | 75  | 306484  | 98.243 | 100.00 | 98.2 |                                     |
| CASN      | ISTD Name    | M/S | Area    | Amount |        |      | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1605467 |        |        |      | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:33

Department: 120 (Metals) Source: MetEdit

Sample: CCB 5 Mult: 1.00 Dilf: 1.00 Divs: 1.000

Instrument: ICPMS M02 Channel 262  
 File: 101014A2 # 32 Method 6020\_  
 Acquired: 10/14/2010 17:14:05 M02  
 Calibrated: 10/14/2010 15:43:11 Units: ug/L

| CASN      | Analyte Name | M/S | Area  | Amount   | RL  | MDL   | %RSD | Q                                   |
|-----------|--------------|-----|-------|----------|-----|-------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 2498  | 0.00000  | 1.0 | 0.083 | 0.0  |                                     |
| 7440-38-2 | Arsenic      | 75  | 25492 | -0.40469 | 2.0 | 0.50  | 0.0  |                                     |
| CASN      | ISTD Name    | M/S | Area  | Amount   |     |       |      | Q                                   |
| 7440-56-4 | Germanium    | 72  |       |          |     |       |      | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:01:54

Department: 120 (Metals)

Source: MetEdit

Sample: L78V9P5

Serial Dilution: 5.00

Sample Dilution: 1.00

|                                 |              |
|---------------------------------|--------------|
| Instrument: ICPMS M02           | Channel 262  |
| File: 101014A2 # 19             | Method 6020_ |
| Acquired: 10/14/2010 16:38:30   | M02          |
| Calibrated: 10/14/2010 15:43:11 | Matrix: AIR  |
|                                 | Units: ug/L  |

| CASN      | Analyte Name | M/S | Area    | Dilution | Sample  | %Diff. | MDL  | Flag | Q                                   |
|-----------|--------------|-----|---------|----------|---------|--------|------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 1248081 | 331.43   | 346.57  | 4.37   | 0.14 | 4.4  | <input checked="" type="checkbox"/> |
| 7440-38-2 | Arsenic      | 75  | 24551   | -2.8501  | 0.13658 | 2190   | 0.41 | NC   | <input checked="" type="checkbox"/> |
| CASN      | ISTD Name    | M/S | Area    | Amount   |         |        |      |      | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1587250 |          |         |        |      |      | <input type="checkbox"/>            |

\* Analyte not requested for this batch, no MDL

NC : Serial dilution concentration < 100 X MDL

E : Difference greater than Limit (10%)

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

Method: 6020 (SOP: SAC-MT-001) M02 Reported: 10/15/10 09:02:02

Department: 120 (Metals)

Source: MetEdit

Sample: L78V9Z

Spike Dilution: 1.00

Sample Dilution: 1.00

|                                 |              |
|---------------------------------|--------------|
| Instrument: ICPMS M02           | Channel 262  |
| File: 101014A2 # 20             | Method 6020_ |
| Acquired: 10/14/2010 16:41:12   | M02          |
| Calibrated: 10/14/2010 15:43:11 | Matrix: AIR  |
|                                 | Units: ug/L  |

| CASN      | Analyte Name | M/S | Area     | Amount | Sample  | %Rec. | Spike | Flag | Q                                   |
|-----------|--------------|-----|----------|--------|---------|-------|-------|------|-------------------------------------|
| 7439-96-5 | Manganese    | 55  | 10080931 | 548.61 | 346.57  | 101   | 200   |      | <input checked="" type="checkbox"/> |
| 7440-38-2 | Arsenic      | 75  | 581736   | 201.88 | 0.13658 | 101   | 200   |      | <input checked="" type="checkbox"/> |
| CASN      | ISTD Name    | M/S | Area     | Amount |         |       |       |      | Q                                   |
| 7440-56-4 | Germanium    | 72  | 1551793  |        |         |       |       |      | <input checked="" type="checkbox"/> |

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

# **Sample Preparation Log**

**TestAmerica - West Sacramento  
Metals - Air Toxics - Preparation Log**

Date: 14-Oct-10

Analyst: jz

Matrix: AIR

Fraction: Filter

SOP: WS-IP-0010

Method: ICPMS

| LOT ID    |     | Workorder |    | Volume Received | Volume Removed | Initial Prep Volume | Final Prep Volume | Batch  | Prep Factor |
|-----------|-----|-----------|----|-----------------|----------------|---------------------|-------------------|--------|-------------|
| G0J140000 | 352 | L8GKNB    | 2A | NA              | NA             | NA                  | 100 mL            | 287352 | 1.2         |
| G0J140000 | 352 | L8GKNC    | 2A | NA              | NA             | NA                  | 100 mL            | 287352 | 1.2         |
| G0J140000 | 352 | L8GKNL    | 2A | NA              | NA             | NA                  | 100 mL            | 287352 | 1.2         |
| G0J090500 | 1   | L78V9     | 2A | 9inches         | 0.75 inches    | 0.75 inches         | 100 mL            | 287352 | 1.2         |
| G0J090500 | 2   | L78WA     | 2A | 9inches         | 0.75 inches    | 0.75 inches         | 100 mL            | 287352 | 1.2         |
| G0J090500 | 3   | L78WC     | 2A | 9inches         | 0.75 inches    | 0.75 inches         | 100 mL            | 287352 | 1.2         |
| G0J090500 | 4   | L78WD     | 2A | 9inches         | 0.75 inches    | 0.75 inches         | 100 mL            | 287352 | 1.2         |
| G0J090500 | 5   | L78WE     | 2A | 9inches         | 0.75 inches    | 0.75 inches         | 100 mL            | 287352 | 1.2         |
| G0J090500 | 6   | L78WF     | 2A | 9inches         | 0.75 inches    | 0.75 inches         | 100 mL            | 287352 | 1.2         |

*Share QC with batch 0287371 (LCS, LCSD)*

For the cassette filter digest the whole filter is used.

For 1" filter: factor = 9 (9/1).

For 0.75" filter factor = 12 (9/0.75).

## Metals Spiking Documentation Form

Lot #(s): 60J090500 60J080620

Batch Number: 0287371 EPA Analytical Method ID: 6020 Spiked Date: 10/14/10  
0287352 EPA Prep Method ID: WS-SP-0010 Hot Plate Microwave ID: Met II

MS Sample(s): N/A Witness Initial/Date: EF 10/14/10 Hot Plate Temp Initial: 93°C  
 Analyst Initial/Date: J2 10/14/10 Final: 93°C

Correct Folder ID Digestion Cup Lot #: A90965164 Thermometer ID: B709  
 Witness: N/A Filter Paper Lot #: 390427 Fin Vol Cup Lot: 100506

| Check If Used | Bottle Name                       | Elements  | Stock Concentration (mg/L)                        | Tracking Number | LCS/LCSD Volume Spiked | MS/SD Volume Spiked | Expiration Date |
|---------------|-----------------------------------|---|---|-----------------|------------------------|---------------------|-----------------|
|               |                                   | Ca, Mg<br>Al, As, Ba, Se, Sn, Ti<br>Fe, Mo, Ti<br>Sb, Co, Pb, Mn, Ni, V, Zn<br>Cu<br>Cr<br>Be, Cd<br>Ag | 5,000<br>200<br>100<br>50<br>25<br>20<br>5<br>5.0 |                 |                        |                     |                 |
|               | ICP Part 2<br>2% HNO <sub>3</sub> | K, Na<br>P, S<br>B, Li, Sr  | 5,000<br>1,000<br>100                             |                 |                        |                     |                 |
|               | SI H2O/Tr HF                      | Si  | 1,000   |                 |                        |                     | J2 10/14/10     |
| X             | TACA-1<br>5% HNO <sub>3</sub>     | Al, K, Mg, Ca, Na, Fe, P, B<br>As, Be, Cd, Cr, Co, Cu, Pb,<br>Mn, Ni, Se, U, V, Zn, Ba, Li Sr<br>Ag, Ti | 500<br>100<br>25                                  | 3189-4-5        | 200 µl                 | N/A                 | 8/31/11         |
| X             | TACA-2<br>5% HNO <sub>3</sub>     | Mo, Sb, Sn, Ti  | 100   | 3189-6-6        | 200 µl                 | N/A                 | 8/31/11         |
|               | Misc. Elements                    |   |   |                 |                        |                     | J2 10/14/10     |

### Prep Reagents:

| Check If Used | Reagent              | Supplier     | Lot Number | Check If Used | Reagent                           | Supplier     | Lot Number  |
|---------------|----------------------|--------------|------------|---------------|-----------------------------------|--------------|-------------|
|               | 70% HNO <sub>3</sub> | Mallinckrodt |            |               | 30% H <sub>2</sub> O <sub>2</sub> | Mallinckrodt |             |
|               | 37% HCl              | Mallinckrodt |            |               | 49% HF                            | Fisher       |             |
| X             | 3M HNO <sub>3</sub>  | In-House     | 4028-24-2  |               | 1:1 HCl                           | In-House     | J2 10/14/10 |

ICP matrix spike and LCS: For final volumes of 100ml, add 1mL from bottles ICP Part 1, ICP Part 2. Add 1ml of Silica (SI) when requested.  
 ICPMS matrix spike and LCS: For final volumes of 100ml, add 0.2 mL each of TACA-1 and TACA-2.  
 Amount to spike is as listed above for final volumes of 100ml. If a different final volume is used, increase or decrease the amount you spike proportionally.



## Preparation Data Review Checklist

Prep Batch(es) 0287371 0287352 Test: 6020

Prep Date: 10/14/10

Holding Times: 3/29/11  
4/5/11 NCM: Y  N

| A. Spike Witness/Batch setup  | Spike Witness | Reviewer |
|---|---------------|----------|
| 1. Holding times checked? NCMs filed as appropriate   | ✓             | ✓        |
| 2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)                                 | ✓             | ✓        |
| 3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.      | ✓             | NA       |
| 4. Worksheets have been checked for required spiking compounds                              | ✓             | ✓        |
| 5. Spiking volumes are correctly documented   | ✓             | ✓        |
| 6. Std ID numbers on spike labels match numbers on bench sheet                              | ✓             | NA       |
| 7. Expiration dates have been checked   | ✓             | ✓        |
| 8. Calibration expiration dates on pipettors have been checked                              | ✓             | NA       |
| 9. Spiker and spike witness have signed and dated bench sheet                               | ✓             | ✓        |
| <b>B. Weights and Volumes</b>   |               |          |
| 1. Recorded weights are in anticipated range  | NA            | ✓        |
| 2. Balance upload or raw data for weights is included                                       | NA            | ✓        |
| 3. Weights and volumes have been transcribed correctly to LIMS.                             | NA            | ✓        |
| 4. Weights are not targeted to meet exact weights.  | NA            | ✓        |
| 5. Each weight or volume measurement is a unique record (no dittos or line downs)           | NA            | ✓        |
| <b>C. Standards and Reagents</b>  |               |          |
| 1. Lot numbers for all reagents, including clean up stages, are recorded.                   | NA            | ✓        |
| 2. Are dates and analysts for cleanups recorded?  | NA            | ✓        |
| 3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed? | NA            | ✓        |
| <b>D. Documentation</b>   |               |          |
| 1. Are all nonconformances documented appropriately?  | NA            | ✓        |
| 2. QuantIMs entry correct, including dates and times.                                       | NA            | ✓        |
| 3. Are all fields completed?  | NA            | ✓        |

Spike witness: PK

Date: 10/14/10

2<sup>nd</sup> Level Reviewer: [Signature]

Date: 10/14/10

Comments:

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# AIR, TSP

# *Raw Data Package*

#### PARTICULATE ANALYSIS

#### LEVEL 1 & 2 REVIEW CHECKLIST

LAB NUMBERS: G0J0905W Batch #: 028742c

ANALYSIS: (circle) TSP/PM10 or METHOD 5

DATE: 12/14/10 ANALYST: Sladina

#### LEVEL 1 ANALYSIS REVIEW

|  | YES                                 | NO                       | NA                                  |
|--|-------------------------------------|--------------------------|-------------------------------------|
| 1. Samples are in good condition.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2. Sample filter number matches the folder or petri ID number.                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3. Desiccator temperature and % humidity criteria in control.                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4. Balance calibration criteria met.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5. Beginning and ending calibration sample bracket weights are in calibration. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6. Samples reached stable weight.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 7. Samples exceeded 5 consecutive final weighings.                             | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

#### LEVEL 1 DATA REVIEW

|   |                                     |                          |                                     |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. Benchsheet is complete.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2. QAS or QAPP consulted and followed for client specifics.                                 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 3. Data entered in properly.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4. Copy of spreadsheet or logbook raw data entry attached to data package.                  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5. Analyst observations, HTV's, Anomalies properly documented and attached to data package. | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Completed By & Date: SV 12/14/10

#### LEVEL 2 REVIEW:

|   |                                     |                          |                                     |
|---|-------------------------------------|--------------------------|-------------------------------------|
| 1. Level 1 checklist complete and verified.   | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 2. Deviations, Anomalies, Holding times checked and approved.                       | <input type="checkbox"/>            | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Reanalysis documented and chemist notified.                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 4. Client specific criteria met.  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 5. Data entry checked and released in Quantims.                                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |
| 6. Indication on benchsheet or spreadsheet on review and released (dated & signed). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>            |

Completed By & Date: mtf 10/18/10

Comments:

des HA

\* Rush project

TestAmerica West Sacramen

PRODUCTION FIGURES - WET CHEM

| TOTAL NUMBER | SAMPLE NUMBER | QC | RE-RUN MATRIX | RE-RUN OTHER | MISC NUMBER | TOTAL HOURS | EXPANDED DELIVERABLE |
|--------------|---------------|----|---------------|--------------|-------------|-------------|----------------------|
|--------------|---------------|----|---------------|--------------|-------------|-------------|----------------------|

METHOD: AO Particulates in Air, Suspended "TSP HiVol" (APP B)  
 QC BATCH #: 0287426 INITIALS: DATA ENTRY: *N*  
 PREP DATE: 10/13/10 13:38 PREP: *SV* INITIALS: *N*  
 COMP DATE: 10/14/10 9:37 ANAL: *SV* DATE: ~~10/13/10~~ 10/14/10  
 USER: VALMORES

| Work Order | Lab Number     | Structured Analysis | Exp. Del. | Analysis Date                  | Sample ID:   |
|------------|----------------|---------------------|-----------|--------------------------------|--------------|
| L78V9-1-AA | G-0J090500-001 | XX S 88 AO 3W       | M         | <i>10/14/10</i>                | UW-10052010B |
| L78WA-1-AA | G-0J090500-002 | XX S 88 AO 3W       | M         | <br> <br> <br> <br> <br> <br>↓ | DW-10052010B |
| L78WC-1-AA | G-0J090500-003 | XX S 88 AO 3W       | M         |                                | UW-10062010B |
| L78WD-1-AA | G-0J090500-004 | XX S 88 AO 3W       | M         |                                | DW-10062010B |
| L78WE-1-AA | G-0J090500-005 | XX S 88 AO 3W       | M         |                                | DW-10072010B |
| L78WF-1-AA | G-0J090500-006 | XX S 88 AO 3W       | M         |                                | UW-10072010B |

Control Limits

PDE115

TestAmerica Laboratories, Inc.  
Inorganics Batch Review  
QC Batch 0287426

Date 10/14/2010  
Time 14:32:45

Method Code:AO Particulates in Air, Suspended "TSP HiVol" (APP B)  
Analyst:Steve Valmores

| Work Order | Result | Units | LDL/Dil | Prep. - Anal.  | Total Solids | PSRL Flag | Rounded Result | Output LDL | Dil. |
|------------|--------|-------|---------|----------------|--------------|-----------|----------------|------------|------|
| L78V9-1-AA | 0.0134 | g     | 0.0005  | 10/13-10/14/10 | .00          | N         | 0.013          | 0.00050    | 1.00 |
| L78WA-1-AA | 0.0128 | g     | 0.0005  | 10/13-10/14/10 | .00          | N         | 0.013          | 0.00050    | 1.00 |
| L78WC-1-AA | 0.0255 | g     | 0.0005  | 10/13-10/14/10 | .00          | N         | 0.026          | 0.00050    | 1.00 |
| L78WD-1-AA | 0.0359 | g     | 0.0005  | 10/13-10/14/10 | .00          | N         | 0.036          | 0.00050    | 1.00 |
| L78WE-1-AA | 0.0347 | g     | 0.0005  | 10/13-10/14/10 | .00          | N         | 0.035          | 0.00050    | 1.00 |
| L78WF-1-AA | 0.0324 | g     | 0.0005  | 10/13-10/14/10 | .00          | N         | 0.032          | 0.00050    | 1.00 |

Notes:

| TEST | TOTAL # | SAMPLE # | QC # | MATRIX # | OTHER # | MISC # | HOURS |
|------|---------|----------|------|----------|---------|--------|-------|
|      | 0       | 0        | 0    | 0        | 0       | 0      | .0    |

TestAmerica

WEST SACRAMENTO

AIR TOXICS GRAVIMETRIC ANALYSES

| Lab ID                           | Filter ID         | Initial Weight (g)<br>date/time initials | Initial Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Wt of<br>Particulate<br>(g) |
|----------------------------------|-------------------|--|--|--|--|--|--|--|--|--|-----------------------------|
|                                  | 5 g<br>wt         | 4.9996<br>080810skv0944                  | 4.9997<br>080910skv0921                  | 5.0005<br>101310skv1338                | 5.0005<br>101410skv0930                |  |  |  |  |  | 0.0008                      |
| L5LCF                            | iron080810-<br>1  | 4.5602<br>080810skv0946                  | 4.5602<br>080910skv0922                  | 4.6167<br>081610skv0820                | 4.6170<br>081710skv0825                |  |  |  |  |  | 0.0568                      |
| L5LCG                            | iron080810-<br>2  | 4.5701<br>080810skv0946                  | 4.5696<br>080910skv0923                  | 4.5811<br>081610skv0820                | 4.5809<br>081710skv0825                |  |  |  |  |  | 0.0113                      |
|                                  | iron080810-<br>3  | 4.5593<br>080810skv0947                  | 4.5588<br>080910skv0924                  |  |  |  |  |  |  |  | NC                          |
|                                  | iron080810-<br>4  | 4.5449<br>080810skv0947                  | 4.5445<br>080910skv0925                  |  |  |  |  |  |  |  | NC                          |
|                                  | iron080810-<br>5  | 4.5676<br>080810skv0948                  | 4.5674<br>080910skv0925                  |  |  |  |  |  |  |  | NC                          |
|                                  | iron080810-<br>6  | 4.5476<br>080810skv0948                  | 4.5473<br>080910skv0926                  |  |  |  |  |  |  |  | NC                          |
|                                  | iron080810-<br>7  | 4.5511<br>080810skv0948                  | 4.5514<br>080910skv0926                  |  |  |  |  |  |  |  | NC                          |
| L78WA<br><del>101210/z1300</del> | iron080810-<br>8  | 4.5572<br>080810skv0949                  | 4.5576<br>080910skv0927                  | 4.5709<br>101310skv1339                | 4.5704<br>101410skv0931                |  |  |  |  |  | 0.0128                      |
| L78WD<br><del>101210/z1300</del> | iron080810-<br>9  | 4.5546<br>080810skv0950                  | 4.5549<br>080910skv0927                  | 4.5903<br>101310skv1340                | 4.5908<br>101410skv0932                |  |  |  |  |  | 0.0359                      |
| L78V9<br><del>101210/z1300</del> | iron080810-<br>10 | 4.5532<br>080810skv0950                  | 4.5528<br>080910skv0927                  | 4.5665<br>101310skv1340                | 4.5662<br>101410skv0932                |  |  |  |  |  | 0.0134                      |
|                                  | 5 g<br>wt         | 5.0003<br>080810skv0951                  | 5.0000<br>080910skv0928                  | 5.0005<br>101310skv1341                | 5.0001<br>101410skv0934                |  |  |  |  |  | 0.0001                      |

WEST SACRAMENTO

TestAmerica  
AIR TOXICS GRAVIMETRIC ANALYSES

| Lab ID | Filter ID         | Initial Weight (g)<br>date/time initials | Initial Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Final Weight (g)<br>date/time initials | Wt of<br>Particulate<br>(g) |
|--------|-------------------|--|--|--|--|--|--|--|--|--|-----------------------------|
|        | 5 g<br>wt         | 5.0005<br>082310skv0906                  | 5.0001<br>082310skv1506                  | 4.9995<br>101310skv1341                | 4.9999<br>101410skv0936                |  |  |  |  |  | -0.0002                     |
|        | tron082310-<br>26 | 4.4067<br>082310skv0908                  | 4.4062<br>082310skv1507                  |  |  |  |  |  |  |  | NC                          |
| L78WE  | tron082310-<br>27 | 4.4110<br>082310skv0908                  | 4.4109<br>082310skv1507                  | 4.4451<br>101310skv1342                | 4.4456<br>101410skv0936                |  |  |  |  |  | 0.0347                      |
| L78WF  | tron082310-<br>28 | 4.4051<br>082310skv0909                  | 4.4047<br>082310skv1508                  | 4.4368<br>101310skv1342                | 4.4371<br>101410skv0936                |  |  |  |  |  | 0.0324                      |
|        | tron082310-<br>29 | 4.4033<br>082310skv0909                  | 4.4028<br>082310skv1508                  |  |  |  |  |  |  |  | NC                          |
| L78WC  | tron082310-<br>30 | 4.4054<br>082310skv0910                  | 4.4049<br>082310skv1508                  | 4.4303<br>101310skv1343                | 4.4304<br>101410skv0937                |  |  |  |  |  | 0.0255                      |
|        | 5 g<br>wt         | 5.0001<br>082310skv0910                  | 5.0000<br>082310skv1509                  | 4.9996<br>101310skv1344                | 4.9998<br>101410skv0937                |  |  |  |  |  | -0.0002                     |



| Working WT Denomination (g) | WEIGHT #1           |   | Working WT Denomination (g) | WEIGHT #2           |   | DATE | INIT. | WEIGHT ID | P/F |
|-----------------------------|---------------------|---|-----------------------------|---------------------|---|------|-------|-----------|-----|
|                             | OBSERVED WEIGHT (g) | Acceptance limits <sup>2</sup><br>Lower (g) Upper (g) |                             | OBSERVED WEIGHT (g) | Acceptance limits <sup>2</sup><br>Lower (g) Upper (g) |      |       |           |     |
| 0.2g                        | 0.2000              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 7/20/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2001              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 7/30/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2001              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2001              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.1999              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2001              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2001              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2001              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 - 0.2002                                       | 10.0g                       | 9.9900 - 10.0100    | 8/11/10   | SV   | QA-11 | P         |     |

1 P= Pass, F= Fail. The observed weight must be within the listed tolerances in order to pass. If calibration check values fall outside acceptance limits, the balance is considered to be out of calibration.  
 a) Do not move or use the balance  
 b) Attach a sign instructing others not to use the balance (see front of logbook).  
 c) Notify the QA department.

2 Balance Tolerances (grams):

| Denomination | Range           | Denomination | Range              |
|--------------|-----------------|--------------|--------------------|
| 0.2000       | 0.1995 - 0.2005 | 10           | 9.9000 - 10.1000   |
| 0.5000       | 0.4995 - 0.5005 | 20           | 19.8000 - 20.2000  |
| 1            | 0.9900 - 1.0100 | 50           | 49.5000 - 50.5000  |
| 2            | 1.9800 - 2.0200 | 100          | 99.0000 - 101.0000 |
| 5            | 4.9500 - 5.0500 |              |                    |

Calibration range is (+/-) 1% for top loading balances. The above tolerances have been rounded to meet balance read out capability.

\*3 When performing Method 1664A, the following Class 1 weights and tolerances must be used (in grams).

| Denomination | Range           |
|--------------|-----------------|
| 0.0020       | 0.0018 - 0.0022 |
| 1            | 0.9950 - 1.0050 |

Calibration range is (+/-) 10% for 2 mg weight and (+/-) 0.5% for 1 g weight. The above tolerances have been modified to meet balance read out capability.

## Balance Calibration Check Log

| Working WT Denomination (g) | WEIGHT #1           |   | Working WT Denomination (g) | WEIGHT #2           |   | DATE | INIT. | WEIGHT ID | P/F |
|-----------------------------|---------------------|---|-----------------------------|---------------------|---|------|-------|-----------|-----|
|                             | OBSERVED WEIGHT (g) | Acceptance limits <sup>2</sup><br>Lower (g) / Upper (g) |                             | OBSERVED WEIGHT (g) | Acceptance limits <sup>2</sup><br>Lower (g) / Upper (g) |      |       |           |     |
| 0.2g                        | 0.2000              | 0.1998 / 0.2002   | 10.000                      | 9.990 / 10.010      | 10/5/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 / 0.2002   | 10.0004                     | 9.990 / 10.010      | 10/6/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2001              | 0.1998 / 0.2002   | 10.0001                     | 9.990 / 10.010      | 10/7/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2001              | 0.1998 / 0.2002   | 10.0003                     | 9.990 / 10.010      | 10/8/10   | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 / 0.2002   | 10.0002                     | 9.990 / 10.010      | 10/10/10  | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 / 0.2002   | 10.0004                     | 9.990 / 10.010      | 10/11/10  | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 / 0.2002   | 10.0003                     | 9.990 / 10.010      | 10/12/10  | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 / 0.2002   | 10.0004                     | 9.990 / 10.010      | 10/13/10  | SV   | QA-11 | P         |     |
| 0.2g                        | 0.2000              | 0.1998 / 0.2002   | 10.0005                     | 9.990 / 10.010      | 10/14/10  | SV   | QA-11 | P         |     |

<sup>1</sup> P = Pass, F = Fail. The observed weight must be within the listed tolerances in order to pass. If calibration check values fall outside acceptance limits, the balance is considered to be out of calibration.

- a) Do not move or use the balance
- b) Attach a sign instructing others not to use the balance (see front of logbook).
- c) Notify the QA department.

<sup>2</sup> Balance Tolerances (grams):

| Denomination | Range           | Denomination | Range             |
|--------------|-----------------|--------------|-------------------|
| 0.2000       | 0.1995 - 0.2005 | 10           | 9.9000 - 10.100   |
| 0.5000       | 0.4995 - 0.5005 | 20           | 19.8000 - 20.200  |
| 1            | 0.9900 - 1.0100 | 50           | 49.5000 - 50.500  |
| 2            | 1.9800 - 2.0200 | 100          | 99.0000 - 101.000 |
| 5            | 4.9500 - 5.0500 |              |                   |

Calibration range is (+/-) 1% for top loading balances. The above tolerances have been rounded to meet balance read out capability.

<sup>3</sup> When performing Method 1664A, the following Class 1 weights and tolerances must be used (in grams).

| Denomination | Range           |
|--------------|-----------------|
| 0.0020       | 0.0018 - 0.0022 |
| 1            | 0.9950 - 1.0050 |

Calibration range is (+/-) 10% for 2 mg weight and (+/-) 0.5% for 1 g weight. The above tolerances have been modified to meet balance read out capability.

| Desiccator # | 1       |      |    | 2  |    |    | 3  |     |    | 4  |     |    | 5  |     |    | 6  |     |    | 7  |     |    | Amb |     |    |    |
|--------------|---------|------|----|----|----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|-----|-----|----|----|
|              | Date    | Init | T  | RH | FN | T  | RH | FN  | T  | RH | FN  | T  | RH | FN  | T  | RH | FN  | T  | RH | FN  | T  | RH  |     |    |    |
| 3M           | 7/27/10 | SV   | 72 | 33 | -  | 73 | 33 | -   | 74 | 26 | (2) | 73 | 27 | (2) | 75 | 29 | -   | 73 | 38 | -   | 73 | 37  | -   | 73 | 45 |
|              | 7/28/10 | SV   | 71 | 33 | -  | 72 | 34 | -   | 73 | 27 | (2) | 73 | 28 | (2) | 72 | 27 | (2) | 72 | 38 | -   | 72 | 37  | -   | 73 | 42 |
|              | 7/29/10 | SV   | 70 | 33 | -  | 70 | 34 | -   | 71 | 27 | (2) | 70 | 30 | (2) | 70 | 28 | -   | 72 | 38 | -   | 72 | 37  | -   | 72 | 42 |
|              | 7/30/10 | SV   | 71 | 33 | -  | 71 | 34 | -   | 72 | 27 | (2) | 71 | 31 | (2) | 71 | 29 | -   | 71 | 30 | -   | 71 | 38  | -   | 73 | 46 |
|              | 8/1/10  | SV   | 71 | 33 | -  | 72 | 37 | -   | 73 | 27 | (2) | 72 | 32 | (2) | 72 | 31 | -   | 73 | 30 | -   | 73 | 37  | -   | 73 | 48 |
|              | 8/2/10  | ECF  | 71 | 34 | -  | 71 | 37 | -   | 72 | 29 | -   | 70 | 33 | -   | 71 | 32 | -   | 72 | 39 | -   | 72 | 37  | -   | 72 | 46 |
|              | 8/3/10  | ECF  | 70 | 34 | -  | 71 | 38 | -   | 72 | 31 | -   | 70 | 34 | -   | 71 | 34 | -   | 72 | 39 | -   | 72 | 38  | -   | 72 | 47 |
|              | 8/4/10  | ECF  | 71 | 34 | -  | 71 | 40 | -   | 72 | 30 | -   | 71 | 34 | -   | 71 | 34 | -   | 72 | 39 | -   | 72 | 38  | -   | 73 | 47 |
|              | 8/5/10  | ECF  | 70 | 33 | -  | 70 | 40 | (1) | 71 | 32 | -   | 70 | 34 | -   | 70 | 36 | (1) | 72 | 39 | (1) | 72 | 37  | (1) | 72 | 45 |
|              | 8/6/10  | ECF  | 70 | 33 | -  | 70 | 28 | -   | 71 | 33 | -   | 70 | 34 | -   | 70 | 28 | -   | 72 | 16 | (2) | 72 | 11  | (2) | 72 | 46 |
|              | 8/8/10  | SV   | 70 | 38 | -  | 71 | 28 | -   | 72 | 34 | -   | 70 | 35 | -   | 71 | 26 | -   | 72 | 14 | (2) | 72 | 11  | (2) | 73 | 50 |
|              | 8/9/10  | ECF  | 70 | 32 | -  | 70 | 28 | -   | 71 | 34 | -   | 70 | 40 | (1) | 70 | 28 | -   | 72 | 14 | (2) | 72 | 11  | (2) | 72 | 50 |
|              | 8/10/10 | SV   | 70 | 32 | -  | 70 | 28 | -   | 71 | 34 | -   | 70 | 40 | (1) | 70 | 28 | -   | 72 | 14 | (2) | 72 | 11  | (2) | 72 | 45 |
|              | 8/11/10 | ECF  | 70 | 32 | -  | 70 | 28 | -   | 71 | 34 | -   | 70 | 28 | -   | 70 | 28 | -   | 72 | 14 | (2) | 72 | 11  | (2) | 72 | 44 |
|              | 8/12/10 | SV   | 69 | 32 | -  | 70 | 28 | -   | 70 | 34 | -   | 69 | 28 | -   | 70 | 28 | -   | 72 | 16 | (2) | 72 | 12  | (2) | 72 | 47 |

Abbreviations: T = Temperature (°F)  
 RH = Relative Humidity (%)  
 FN = Foot Note  
 Limits: RH 33± 5%  
 Temperature 22± 5 °C or 71.6± 9°F  
 Foot Notes: 1 = Desiccant Changed  
 2 = Desiccator < 28% Humidity

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## TestAmerica West Sacramento Air Toxics

Desiccator Humidity/Temperature Logbook

| Desiccator # | 1    |      |    | 2  |    |    | 3  |    |    | 4  |     |    | 5  |    |    | 6  |    |    | 7  |     |    | Amb |     |    |    |
|--------------|------|------|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|-----|----|-----|-----|----|----|
|              | Date | Init | T  | RH | FN | T  | RH | FN | T  | RH | FN  | T  | RH | FN | T  | RH | FN | T  | RH | FN  | T  | RH  |     |    |    |
| 8/13/10      | ECF  |      | 70 | 32 | -  | 71 | 28 | -  | 72 | 35 | -   | 70 | 28 | -  | 71 | 28 | -  | 72 | 16 | (2) | 72 | 11  | (2) | 72 | 46 |
| 8/14/10      | ECF  |      | 71 | 32 | -  | 72 | 28 | -  | 73 | 35 | -   | 72 | 28 | -  | 71 | 28 | -  | 73 | 16 | (2) | 73 | 11  | (2) | 75 | 46 |
| 8/16/10      | ECF  |      | 70 | 33 | -  | 70 | 28 | -  | 71 | 37 | -   | 70 | 28 | -  | 71 | 28 | -  | 72 | 22 | (2) | 72 | 11  | (2) | 72 | 47 |
| 8/17/10      | ECF  |      | 70 | 33 | -  | 70 | 28 | -  | 71 | 38 | -   | 70 | 28 | -  | 70 | 28 | -  | 72 | 22 | (2) | 72 | 11  | (2) | 72 | 45 |
| 8/19/10      | ECF  |      | 70 | 33 | -  | 70 | 28 | -  | 71 | 39 | -   | 70 | 28 | -  | 70 | 29 | -  | 72 | 23 | (2) | 72 | 14  | (2) | 72 | 47 |
| 8/19/10      | ECF  |      | 70 | 33 | -  | 70 | 28 | -  | 71 | 40 | (2) | 70 | 28 | -  | 70 | 29 | -  | 72 | 23 | (2) | 72 | 14  | (2) | 72 | 48 |
| 8/20/10      | ECF  |      | 71 | 33 | -  | 71 | 30 | -  | 72 | 26 | (2) | 71 | 28 | -  | 71 | 30 | -  | 72 | 24 | (2) | 72 | 16  | (2) | 73 | 46 |
| 8/20/10      | ECF  |      | 70 | 33 | -  | 71 | 33 | -  | 72 | 27 | (2) | 71 | 28 | -  | 71 | 33 | -  | 72 | 24 | (2) | 72 | 19  | (2) | 73 | 39 |
| 8/20/10      | ECF  |      | 72 | 33 | -  | 72 | 34 | -  | 73 | 27 | (2) | 72 | 28 | -  | 72 | 35 | -  | 73 | 25 | (2) | 73 | 21  | (2) | 73 | 49 |
| 8/25/10      | ECF  |      | 73 | 32 | -  | 73 | 35 | -  | 75 | 27 | (2) | 73 | 30 | -  | 73 | 36 | -  | 73 | 25 | (2) | 73 | 21  | (2) | 75 | 43 |
| 8/26/10      | ECF  |      | 73 | 32 | -  | 73 | 34 | -  | 74 | 27 | (2) | 73 | 30 | -  | 73 | 35 | -  | 73 | 26 | (2) | 73 | 21  | (2) | 75 | 47 |
| 8/27/10      | ECF  |      | 71 | 33 | -  | 72 | 35 | -  | 73 | 28 | -   | 72 | 32 | -  | 72 | 35 | -  | 72 | 27 | (2) | 72 | 22  | (2) | 73 | 47 |
| 8/30/10      | ECF  |      | 70 | 33 | -  | 70 | 35 | -  | 71 | 31 | -   | 69 | 33 | -  | 70 | 36 | -  | 72 | 29 | -   | 72 | 22  | (2) | 72 | 41 |
| 8/31/10      | ECF  |      | 70 | 33 | -  | 70 | 36 | -  | 71 | 31 | -   | 70 | 34 | -  | 70 | 38 | -  | 72 | 30 | -   | 72 | 23  | (2) | 72 | 51 |
| 9/1/10       | ECF  |      | 71 | 33 | -  | 71 | 37 | -  | 72 | 32 | -   | 71 | 34 | -  | 71 | 39 | -  | 73 | 31 | -   | 72 | 23  | (2) | 73 | 43 |

Abbreviations: T = Temperature (°F)  
 RH = Relative Humidity (%)  
 Limits: RH 33± 5%  
 Temperature 22± 5 °C or 71.6± 9°F  
 Foot Notes: 1 = Desiccant Changed  
 2 = Desiccator < 28% Humidity  
 FN = Foot Note

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# TestAmerica West Sacramento Air Toxics

Desiccator Humidity/Temperature Logbook

| Desiccator # | 1        |      |    | 2  |    |    | 3  |    |    | 4  |    |    | 5  |    |    | 6  |    |    | 7  |    |    | Amb |   |    |    |
|--------------|----------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|---|----|----|
|              | Date     | Init | T  | RH | FN | T  | RH | FN | T  | RH | FN | T  | RH | FN | T  | RH | FN | T  | RH | FN | T  | RH  |   |    |    |
|              | 10/6/10  | ECF  | 71 | 33 | -  | 71 | 34 | -  | 72 | 31 | -  | 71 | 33 | -  | 71 | 29 | -  | 73 | 34 | -  | 73 | 28  | - | 73 | 40 |
|              | 10/7/10  | ECF  | 70 | 32 | -  | 71 | 34 | -  | 72 | 32 | -  | 71 | 33 | -  | 71 | 29 | -  | 73 | 34 | -  | 72 | 29  | - | 73 | 42 |
|              | 10/8/10  | ECF  | 70 | 33 | -  | 70 | 34 | -  | 72 | 32 | -  | 70 | 33 | -  | 71 | 31 | -  | 72 | 35 | -  | 72 | 29  | - | 73 | 39 |
|              | 10/9/10  | OV   | 70 | 33 | -  | 70 | 33 | -  | 71 | 33 | -  | 70 | 33 | -  | 70 | 31 | -  | 72 | 34 | -  | 72 | 29  | - | 73 | 40 |
|              | 10/10/10 | OV   | 71 | 31 | -  | 71 | 36 | -  | 75 | 33 | -  | 74 | 33 | -  | 74 | 33 | -  | 75 | 35 | -  | 75 | 30  | - | 77 | 41 |
|              | 10/11/10 | ECF  | 72 | 33 | -  | 72 | 37 | -  | 73 | 34 | -  | 72 | 35 | -  | 72 | 34 | -  | 73 | 35 | -  | 73 | 30  | - | 73 | 43 |
|              | 10/12/10 | ECF  | 71 | 32 | -  | 71 | 35 | -  | 73 | 32 | -  | 71 | 33 | -  | 72 | 33 | -  | 73 | 34 | -  | 73 | 28  | - | 73 | 27 |
|              | 10/13/10 | ECF  | 71 | 33 | -  | 71 | 36 | -  | 72 | 32 | -  | 71 | 33 | -  | 71 | 33 | -  | 73 | 34 | -  | 73 | 29  | - | 73 | 32 |
|              | 10/14/10 | ECF  | 72 | 32 | -  | 72 | 38 | -  | 73 | 33 | -  | 72 | 34 | -  | 72 | 36 | -  | 73 | 34 | -  | 73 | 30  | - | 73 | 42 |

FN = Foot Note

RH = Relative Humidity (%)  
Temperature 22± 5 °C or 71.6± 9°F  
2 = Desiccator < 28% Humidity

Abbreviations: T = Temperature (°F)  
RH 33± 5%  
Limits: 1 = Desiccant Changed  
Foot Notes:

# AIR, TO-9, Dioxins/Furans

# **Raw Data Package**

## **Run/Batch Data**

*Includes (as applicable):*

*runlogs*

*continuing calibration standards*

*interference/performance check standards*

*continuing calibration blanks*

*method blanks*

*lcs*

*ms/sd*

*sample raw data*

*ms tune data*



Run text: L79L2-1-AA Sample text: L79L2-1-AA :G0J090500-7MB  
 Run #14 Filename: 14OC104D5 S: 45 I: 1 Results: 14OC104D5TO9SY  
 Acquired: 15-OCT-10 18:46:46 Processed: 15-OCT-10 23:14:22  
 Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

*Handwritten:* 10/18/10

| Name                    | Resp      | RA     | RT     | RRF  | Conc                     | EDL              | Rec   | M |
|-------------------------|-----------|--------|--------|------|--------------------------|------------------|-------|---|
| 13C-1,2,3,4-TCDD        | 125361200 | 0.80 y | 20:05  | -    | 75.069                   | -                | -     | n |
| 13C-2,3,7,8-TCDF        | 153281900 | 0.79 y | 19:29  | 1.23 | 3978.457                 | 3.963            | 99.5  | n |
| 2,3,7,8-TCDF            | 14149     | 1.15 n | 19:29  | 0.99 | <del>0.371</del>         | 1.169            | -     | n |
| Total TCDF              | 14149     | 1.15 n | 19:29  | 0.99 | <del>0.371</del>         | 1.169            | -     | n |
| 13C-2,3,7,8-TCDD        | 111749600 | 0.79 y | 20:17  | 0.91 | 3939.740                 | 5.528            | 98.5  | n |
| 2,3,7,8-TCDD            | 15738     | 0.32 n | 20:18  | 0.98 | <del>0.573</del>         | 1.357            | -     | n |
| Total TCDD              | 73197     | 0.50 n | 15:57  | 0.98 | <del>2.664</del>         | 1.357            | -     | n |
| 37Cl-2,3,7,8-TCDD       | 62409600  | 1.00 y | 20:19  | 1.33 | 1684.608                 | 1.974            | 105.3 | n |
| 13C-1,2,3,7,8-PeCDF     | 114174700 | 1.56 y | 25:23  | 0.88 | 4158.512                 | 11.531           | 104.0 | n |
| 1,2,3,7,8-PeCDF         | *         | * n    | NotFnd | 1.08 | *                        | 1.926            | -     | n |
| 2,3,4,7,8-PeCDF         | *         | * n    | NotFnd | 1.05 | *                        | 1.983            | -     | n |
| Total F2 PeCDF          | 8373      | 0.89 n | 26:36  | 1.06 | <del>0.276</del>         | <del>1.954</del> | -     | n |
| Total F1 PeCDF          | 44124     | 0.10 n | 17:00  | 1.06 | <del>1.457</del>         | 1.430            | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 80675100  | 1.60 y | 27:50  | 0.66 | 3895.382                 | 3.789            | 97.4  | n |
| 1,2,3,7,8-PeCDD         | *         | * n    | NotFnd | 0.93 | *                        | 4.123            | -     | n |
| Total PeCDD             | 46327     | 4.19 n | 27:11  | 0.93 | <del>2.482</del>         | 4.123            | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 80182000  | 1.26 y | 33:25  | -    | 67.722                   | -                | -     | n |
| 13C-1,2,3,4,7,8-HxCDF   | 72305400  | 0.51 y | 32:20  | 1.04 | 3452.441                 | 28.511           | 86.3  | n |
| 1,2,3,4,7,8-HxCDF       | 31222     | 1.65 n | 32:21  | 1.22 | <i>sd</i> 1.419          | 0.891            | -     | n |
| 1,2,3,6,7,8-HxCDF       | 25496     | 1.44 n | 32:28  | 1.28 | <i>sd</i> 1.101          | 0.847            | -     | n |
| 2,3,4,6,7,8-HxCDF       | 10356     | 0.42 n | 32:56  | 1.23 | <del>0.464</del>         | 0.880            | -     | n |
| 1,2,3,7,8,9-HxCDF       | 10814     | 0.85 n | 33:37  | 1.10 | <del>0.545</del>         | 0.988            | -     | n |
| Total HxCDF             | 115103    | 1.32 y | 31:06  | 1.21 | <del>5.234</del> 2.52 ✓  | 0.899            | -     | n |
| 13C-1,2,3,6,7,8-HxCDD   | 71520700  | 1.30 y | 33:10  | 0.83 | 4294.604                 | 0.297            | 107.4 | n |
| 1,2,3,4,7,8-HxCDD       | 25349     | 1.17 y | 33:07  | 1.04 | <del>1.367</del>         | 1.395            | -     | y |
| 1,2,3,6,7,8-HxCDD       | 30230     | 1.41 y | 33:10  | 1.16 | <i>J</i> 1.454           | 1.244            | -     | y |
| 1,2,3,7,8,9-HxCDD       | 17064     | 0.37 n | 33:27  | 1.18 | <del>0.808</del>         | 1.224            | -     | n |
| Total HxCDD             | 78590     | 0.41 n | 31:49  | 1.13 | <del>3.924</del> 1.454 ✓ | 1.283            | -     | y |
| 13C-1,2,3,4,6,7,8-HpCDF | 64434800  | 0.44 y | 34:57  | 0.91 | 3532.250                 | 19.775           | 88.3  | n |
| 1,2,3,4,6,7,8-HpCDF     | 55984     | 1.41 n | 34:57  | 1.35 | <i>sd</i> 2.582          | 1.864            | -     | y |
| 1,2,3,4,7,8,9-HpCDF     | 15403     | 1.46 n | 36:10  | 1.09 | <del>0.875</del>         | 2.295            | -     | n |
| Total HpCDF             | 71387     | 1.41 n | 34:57  | 1.22 | <del>3.457</del> 2.582 ✓ | 2.057            | -     | y |
| 13C-1,2,3,4,6,7,8-HpCDD | 60915300  | 1.05 y | 35:47  | 0.83 | 3676.300                 | 6.985            | 91.9  | n |
| 1,2,3,4,6,7,8-HpCDD     | 17716     | 0.49 n | 35:47  | 1.07 | <del>1.085</del>         | 2.745            | -     | n |
| Total HpCDD             | 87289     | 1.83 n | 35:12  | 1.07 | <del>5.348</del>         | 2.745            | -     | n |
| 13C-OCDD                | 87132200  | 0.88 y | 38:23  | 0.62 | 7011.991                 | 5.187            | 87.6  | n |
| OCDF                    | 12180     | 1.84 n | 38:27  | 1.37 | <del>0.016</del>         | 2.624            | -     | n |

OCDD

265749 0.90 y 38:24 1.20

∫ 20.345 /

4.180

- y

Run text: L79L2-1-AA      Sample text: L79L2-1-AA :G0J090500-7MB  
 Run #14 Filename: 14OC104D5    S: 45    I: 1      Results: 14OC104D5TO9  
 Acquired: 15-OCT-10    18:46:46      Processed: 15-OCT-10    23:14:22  
 Run: 14OC104D5      Analyte: TO9      Cal: TO90721104D5  
 Factor 1:1600.000      Factor 2:20.000      Sample size: 0.50    SAMP

| Name                    | Resp      | RA     | RT     | RRF  | Conc             | EDL              | Rec   | M |
|-------------------------|-----------|--------|--------|------|------------------|------------------|-------|---|
| 13C-1,2,3,4-TCDD        | 125361200 | 0.80 y | 20:05  | -    | 75.069           | -                | -     | n |
| 13C-2,3,7,8-TCDF        | 153281900 | 0.79 y | 19:29  | 1.23 | 3978.457         | 3.963            | 99.5  | n |
| 2,3,7,8-TCDF            | 14149     | 1.15 n | 19:29  | 0.99 | <del>0.371</del> | 1.169            | -     | n |
| Total TCDF              | 14149     | 1.15 n | 19:29  | 0.99 | <del>0.371</del> | 1.169            | -     | n |
| 13C-2,3,7,8-TCDD        | 111749600 | 0.79 y | 20:17  | 0.91 | 3939.740         | 5.528            | 98.5  | n |
| 2,3,7,8-TCDD            | 15738     | 0.32 n | 20:18  | 0.98 | <del>0.573</del> | 1.357            | -     | n |
| Total TCDD              | 73197     | 0.50 n | 15:57  | 0.98 | <del>2.664</del> | 1.357            | -     | n |
| 37Cl-2,3,7,8-TCDD       | 62409600  | 1.00 y | 20:19  | 1.33 | 1684.608         | 1.974            | 105.3 | n |
| 13C-1,2,3,7,8-PeCDF     | 114174700 | 1.56 y | 25:23  | 0.88 | 4158.512         | 11.531           | 104.0 | n |
| 1,2,3,7,8-PeCDF         | *         | * n    | NotFnd | 1.08 | *                | 1.926            | -     | n |
| 2,3,4,7,8-PeCDF         | *         | * n    | NotFnd | 1.05 | *                | 1.983            | -     | n |
| Total F2 PeCDF          | 8373      | 0.89 n | 26:36  | 1.06 | <del>0.276</del> | <del>1.954</del> | -     | n |
| Total F1 PeCDF          | 44124     | 0.10 n | 17:00  | 1.06 | <del>1.457</del> | <del>1.430</del> | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 80675100  | 1.60 y | 27:50  | 0.66 | 3895.382         | 3.789            | 97.4  | n |
| 1,2,3,7,8-PeCDD         | *         | * n    | NotFnd | 0.93 | *                | 4.123            | -     | n |
| Total PeCDD             | 46327     | 4.19 n | 27:11  | 0.93 | <del>2.482</del> | 4.123            | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 80182100  | 1.26 y | 33:25  | -    | 67.722           | -                | -     | n |
| 13C-1,2,3,4,7,8-HxCDF   | 72305400  | 0.51 y | 32:20  | 1.04 | 3452.437         | 28.511           | 86.3  | n |
| 1,2,3,4,7,8-HxCDF       | 31222     | 1.65 n | 32:21  | 1.22 | <del>1.419</del> | 0.891            | -     | n |
| 1,2,3,6,7,8-HxCDF       | 25496     | 1.44 n | 32:28  | 1.28 | <del>1.101</del> | 0.847            | -     | n |
| 2,3,4,6,7,8-HxCDF       | 10356     | 0.42 n | 32:56  | 1.23 | <del>0.464</del> | 0.880            | -     | n |
| 1,2,3,7,8,9-HxCDF       | 10814     | 0.85 n | 33:37  | 1.10 | <del>0.545</del> | 0.988            | -     | n |
| Total HxCDF             | 115103    | 1.32 y | 31:06  | 1.21 | <del>5.234</del> | 0.899            | -     | n |
| 13C-1,2,3,6,7,8-HxCDD   | 71520700  | 1.30 y | 33:10  | 0.83 | 4294.598         | 0.297            | 107.4 | n |
| 1,2,3,4,7,8-HxCDD       | 57618     | 1.39 y | 33:10  | 1.04 | 3.107            | 1.395            | -     | n |
| 1,2,3,6,7,8-HxCDD       | 57618     | 1.39 y | 33:10  | 1.16 | 2.771            | 1.244            | -     | n |
| 1,2,3,7,8,9-HxCDD       | 17064     | 0.37 n | 33:27  | 1.18 | 0.808            | 1.224            | -     | n |
| Total HxCDD             | 89706     | 0.41 n | 31:49  | 1.13 | 4.324            | 1.283            | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDF | 64434800  | 0.44 y | 34:57  | 0.91 | 3532.246         | 19.775           | 88.3  | n |
| 1,2,3,4,6,7,8-HpCDF     | 66666     | 2.26 n | 34:56  | 1.35 | 3.075            | 1.864            | -     | n |
| 1,2,3,4,7,8,9-HpCDF     | 15403     | 1.46 n | 36:10  | 1.09 | <del>0.874</del> | 2.295            | -     | n |
| Total HpCDF             | 82069     | 2.26 n | 34:56  | 1.22 | <del>3.950</del> | 2.057            | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDD | 60915300  | 1.05 y | 35:47  | 0.83 | 3676.296         | 6.985            | 91.9  | n |
| 1,2,3,4,6,7,8-HpCDD     | 17716     | 0.49 n | 35:47  | 1.07 | <del>1.085</del> | 2.745            | -     | n |
| Total HpCDD             | 87289     | 1.83 n | 35:12  | 1.07 | <del>5.348</del> | 2.745            | -     | n |
| 13C-OCDD                | 87132200  | 0.88 y | 38:23  | 0.62 | 7011.983         | 5.187            | 87.6  | n |

|      |        |      |   |       |      |        |       |   |   |
|------|--------|------|---|-------|------|--------|-------|---|---|
| OCDF | 12180  | 1.84 | n | 38:27 | 1.37 | 0.816  | 2.624 | - | n |
| OCDD | 224776 | 1.06 | n | 38:24 | 1.20 | 17.208 | 4.180 | - | n |

Run Text: L79L2-1-AA

Sample text: L79L2-1-AA :G0J090500-7MB

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:1  
 Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 0.186 of which 0.186 named and \* unnamed  
 Conc: 0.371 of which 0.371 named and \* unnamed

| Name         | # | R.T.  | Ratio | Conc. | Area  | S/N  | >?    | Mod? |
|--------------|---|-------|-------|-------|-------|------|-------|------|
| 2,3,7,8-TCDF | 1 | 19:29 | 1.151 | n     | 0.371 | 9202 | 3.082 | y n  |
|              |   |       |       |       |       | 7994 | 1.267 | n n  |

Run Text: L79L2-1-AA

Sample text: L79L2-1-AA :G0J090500-7MB

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:6  
 Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 1.332 of which 0.286 named and 1.046 unnamed  
 Conc: 2.664 of which 0.573 named and 2.091 unnamed

| Name         | # | R.T.  | Ratio | Conc. | Area  | S/N   | >?    | Mod? |
|--------------|---|-------|-------|-------|-------|-------|-------|------|
|              | 1 | 15:57 | 0.501 | n     | 0.368 | 4403  | 1.130 | n n  |
|              |   |       |       |       |       | 8786  | 1.704 | n n  |
|              | 2 | 19:29 | 2.382 | n     | 0.609 | 22525 | 5.737 | y n  |
|              |   |       |       |       |       | 9454  | 1.991 | n n  |
|              | 3 | 19:33 | 1.497 | n     | 0.456 | 10601 | 2.718 | n n  |
|              |   |       |       |       |       | 7083  | 1.705 | n n  |
|              | 4 | 20:02 | 2.072 | n     | 0.214 | 6898  | 2.256 | n n  |
|              |   |       |       |       |       | 3329  | 0.959 | n n  |
| 2,3,7,8-TCDD | 5 | 20:18 | 0.323 | n     | 0.573 | 6847  | 1.823 | n n  |
|              |   |       |       |       |       | 21201 | 3.532 | y n  |
|              | 6 | 21:31 | 1.993 | n     | 0.443 | 13707 | 2.038 | n n  |
|              |   |       |       |       |       | 6877  | 1.459 | n n  |

Run Text: L79L2-1-AA

Sample text: L79L2-1-AA :G0J090500-7MB

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:1  
 Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 0.138 of which \* named and 0.138 unnamed  
 Conc: 0.276 of which \* named and 0.276 unnamed

| Name | # | R.T.  | Ratio   | Conc. | Area | S/N   | >? | Mod? |
|------|---|-------|---------|-------|------|-------|----|------|
|      | 1 | 26:36 | 0.894 n | 0.276 | 5089 | 1.291 | n  | n    |
|      |   |       |         |       | 5695 | 1.213 | n  | n    |

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Run Text: L79L2-1-AA Sample text: L79L2-1-AA :G0J090500-7MB

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:6  
 Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 0.728 of which \* named and 0.728 unnamed  
 Conc: 1.457 of which \* named and 1.457 unnamed

| Name | # | R.T.  | Ratio   | Conc. | Area  | S/N    | >? | Mod? |
|------|---|-------|---------|-------|-------|--------|----|------|
|      | 1 | 17:00 | 0.105 n | 0.084 | 1539  | 4.225  | y  | n    |
|      |   |       |         |       | 14663 | 2.999  | n  | n    |
|      | 2 | 17:04 | 0.460 n | 0.367 | 6749  | 12.806 | y  | n    |
|      |   |       |         |       | 14663 | 2.999  | n  | n    |
|      | 3 | 17:41 | 0.983 n | 0.457 | 8416  | 9.566  | y  | n    |
|      |   |       |         |       | 8561  | 1.589  | n  | n    |
|      | 4 | 19:57 | 0.099 n | 0.048 | 883   | 2.517  | n  | n    |
|      |   |       |         |       | 8909  | 1.090  | n  | n    |
|      | 5 | 21:14 | 0.324 n | 0.375 | 6906  | 12.574 | y  | n    |
|      |   |       |         |       | 21295 | 2.868  | n  | n    |
|      | 6 | 22:08 | 0.276 n | 0.126 | 2327  | 6.760  | y  | n    |
|      |   |       |         |       | 8440  | 1.516  | n  | n    |

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Run Text: L79L2-1-AA Sample text: L79L2-1-AA :G0J090500-7MB

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:1  
 Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 1.241 of which \* named and 1.241 unnamed  
 Conc: 2.482 of which \* named and 2.482 unnamed

| Name | # | R.T.  | Ratio   | Conc. | Area  | S/N   | >? | Mod? |
|------|---|-------|---------|-------|-------|-------|----|------|
|      | 1 | 27:11 | 4.186 n | 2.482 | 76053 | 6.854 | y  | n    |
|      |   |       |         |       | 18168 | 3.529 | y  | n    |

Run Text: L79L2-1-AA

Sample text: L79L2-1-AA :G0J090500-7MB

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:8  
 Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 2.617 of which 1.764 named and 0.852 unnamed  
 Conc: 5.234 of which 3.529 named and 1.705 unnamed

| Name              | # | R.T.  | Ratio   | Conc. | Area           | S/N            | >?     | Mod?   |
|-------------------|---|-------|---------|-------|----------------|----------------|--------|--------|
|                   | 1 | 31:06 | 1.317 y | 0.453 | 5619<br>4267   | 1.551<br>2.378 | n<br>n | n<br>n |
| 1,2,3,4,7,8-HxCDF | 2 | 32:21 | 1.655 n | 1.419 | 23067<br>13938 | 3.443<br>8.108 | y<br>y | n<br>n |
| 1,2,3,6,7,8-HxCDF | 3 | 32:28 | 1.442 n | 1.101 | 16409<br>11382 | 4.691<br>6.035 | y<br>y | n<br>n |
| 2,3,4,6,7,8-HxCDF | 4 | 32:56 | 0.418 n | 0.464 | 5733<br>13727  | 1.866<br>6.325 | n<br>y | n<br>n |
|                   | 5 | 33:01 | 0.516 n | 0.587 | 7089<br>13727  | 1.854<br>6.325 | n<br>y | n<br>n |
|                   | 6 | 33:12 | 1.816 n | 0.426 | 7535<br>4149   | 2.268<br>2.746 | n<br>n | n<br>n |
|                   | 7 | 33:18 | 0.698 n | 0.240 | 2896<br>4149   | 0.992<br>2.746 | n<br>n | n<br>n |
| 1,2,3,7,8,9-HxCDF | 8 | 33:37 | 0.850 n | 0.545 | 5986<br>7040   | 1.414<br>2.380 | n<br>n | n<br>n |

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Run Text: L79L2-1-AA

Sample text: L79L2-1-AA :G0J090500-7MB

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:4  
 Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 2.162 of which 1.789 named and 0.373 unnamed  
 Conc: 4.324 of which 3.579 named and 0.745 unnamed

| Name              | # | R.T.  | Ratio   | Conc. | Area           | S/N            | >?     | Mod?   |
|-------------------|---|-------|---------|-------|----------------|----------------|--------|--------|
|                   | 1 | 31:49 | 0.413 n | 0.295 | 3292<br>7977   | 1.107<br>2.491 | n<br>n | n<br>n |
|                   | 2 | 32:58 | 3.323 n | 0.450 | 13466<br>4052  | 2.868<br>1.276 | n<br>n | n<br>n |
| 1,2,3,6,7,8-HxCDD | 3 | 33:10 | 1.391 y | 2.771 | 33521<br>24098 | 5.204<br>3.982 | y<br>y | n<br>n |

See P 7A

Run Text: L79L2-1-AA

Sample text: L79L2-1-AA :G0J090500-7MB

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? yes #Hom:4  
 Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 1.962 of which 1.814 named and 0.148 unnamed  
 Conc: 3.924 of which 3.628 named and 0.295 unnamed

| Name              | # | R.T.  | Ratio   | Conc.      | Area           | S/N            | >?     | Mod?   |
|-------------------|---|-------|---------|------------|----------------|----------------|--------|--------|
|                   | 1 | 31:49 | 0.413 n | 0.295      | 3292<br>7977   | 1.107<br>2.491 | n<br>n | n<br>n |
| 1,2,3,4,7,8-HxCDD | 2 | 33:07 | 1.169 y | 1.367 <EPL | 13663<br>11686 | 3.987<br>3.984 | y<br>y | y<br>y |
| 1,2,3,6,7,8-HxCDD | 3 | 33:10 | 1.413 y | 1.454 ✓    | 17700<br>12530 | 5.201<br>3.489 | y<br>y | y<br>y |
| 1,2,3,7,8,9-HxCDD | 4 | 33:27 | 0.371 n | 0.808      | 9446<br>25459  | 2.615<br>3.697 | n<br>y | n<br>n |

P 7A



1,2,3,7,8,9-HxCDD 4 33:27 0.371 n 0.808 9446 2.615 n n  
 25459 3.697 y n

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Run Text: L79L2-1-AA Sample text: L79L2-1-AA :G0J090500-7MB

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:2  
 Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 1.975 of which 1.975 named and \* unnamed  
 Conc: 3.950 of which 3.950 named and \* unnamed

| Name                | # | R.T.  | Ratio   | Conc. | Area  | S/N   | >? | Mod? |
|---------------------|---|-------|---------|-------|-------|-------|----|------|
| 1,2,3,4,6,7,8-HpCDF | 1 | 34:56 | 2.256 n | 3.075 | 73735 | 5.914 | y  | n    |
|                     |   |       |         |       | 32679 | 6.453 | y  | n    |
| 1,2,3,4,7,8,9-HpCDF | 2 | 36:10 | 1.464 n | 0.874 | 11054 | 1.840 | n  | n    |
|                     |   |       |         |       | 7551  | 1.690 | n  | n    |

*See P8A*

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Run Text: L79L2-1-AA Sample text: L79L2-1-AA :G0J090500-7MB

Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4  
 Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 2.674 of which 0.543 named and 2.131 unnamed  
 Conc: 5.348 of which 1.085 named and 4.263 unnamed

| Name                | # | R.T.  | Ratio   | Conc. | Area  | S/N   | >? | Mod? |
|---------------------|---|-------|---------|-------|-------|-------|----|------|
|                     | 1 | 35:12 | 1.829 n | 2.311 | 33805 | 3.867 | y  | n    |
|                     |   |       |         |       | 18486 | 4.889 | y  | n    |
| 1,2,3,4,6,7,8-HpCDD | 2 | 35:47 | 0.494 n | 1.085 | 9032  | 2.136 | n  | n    |
|                     |   |       |         |       | 18270 | 2.722 | n  | n    |
|                     | 3 | 35:51 | 0.556 n | 1.222 | 10167 | 1.489 | n  | n    |
|                     |   |       |         |       | 18270 | 2.722 | n  | n    |
|                     | 4 | 36:07 | 3.027 n | 0.730 | 17684 | 3.083 | y  | n    |
|                     |   |       |         |       | 5843  | 1.705 | n  | n    |

*CEOL*

*2.136*

Run Text: L79L2-1-AA

Sample text: L79L2-1-AA :G0J090500-7MB

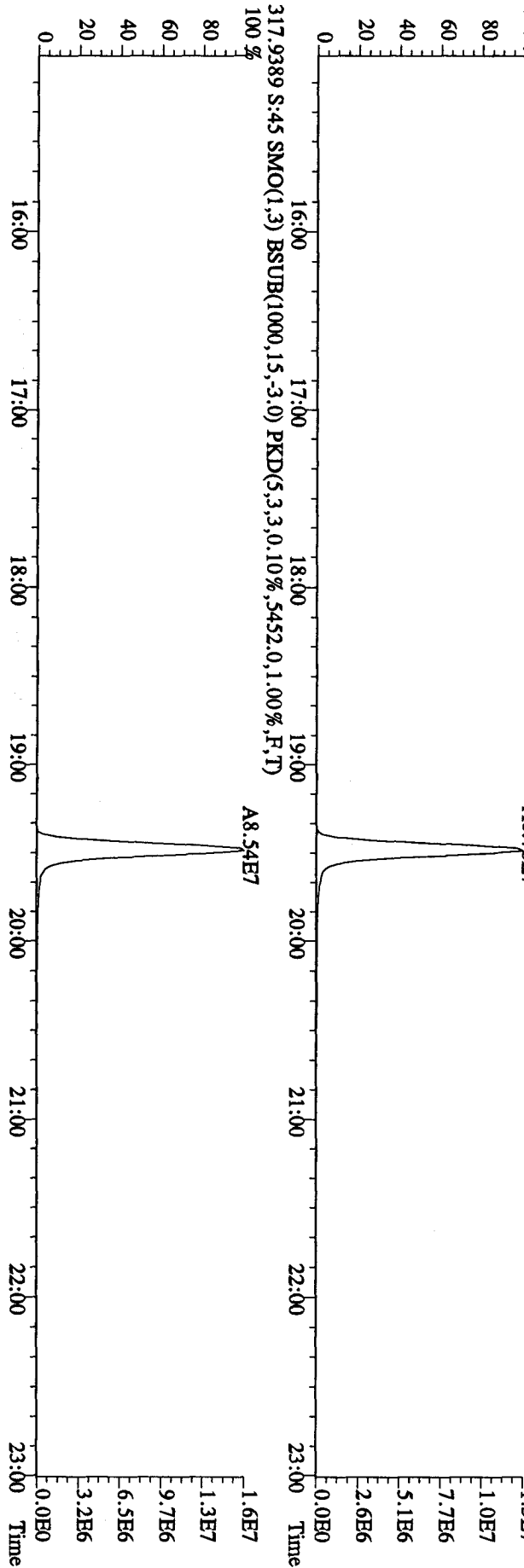
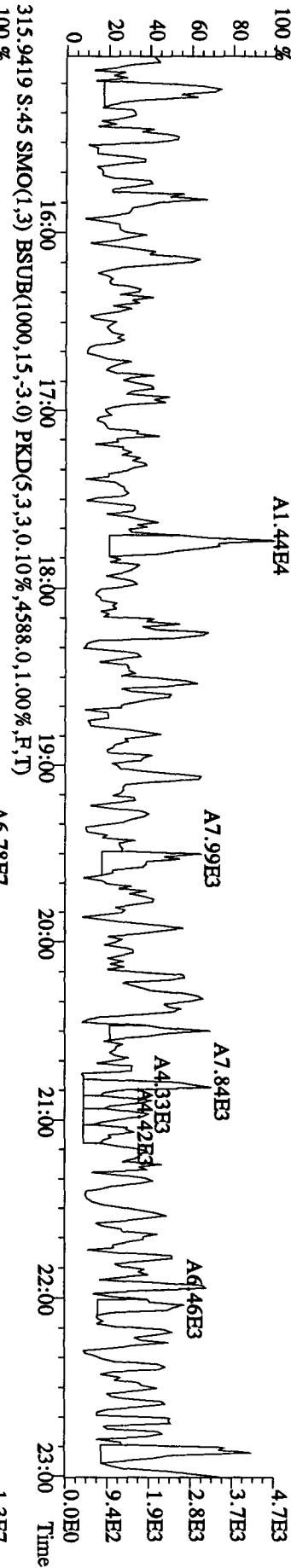
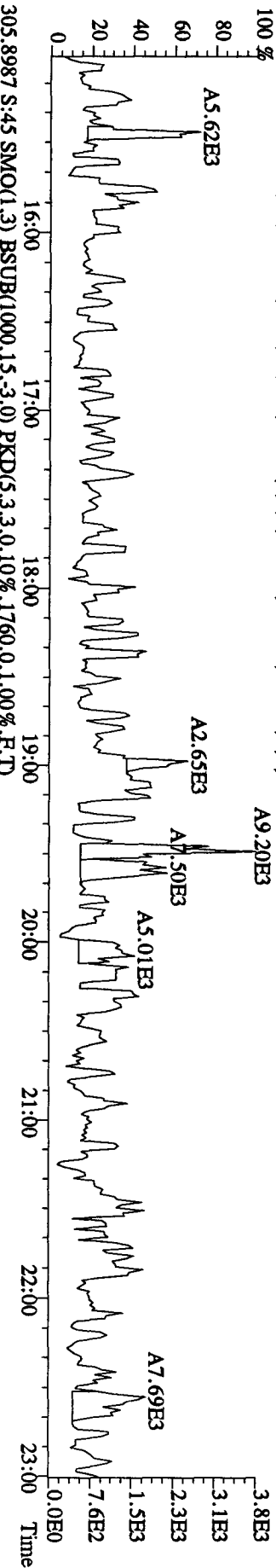
Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? yes #Hom:2  
Run: 14 File: 14OC104D5 S:45 Acq:15-OCT-10 18:46:46  
Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 1.728 of which 1.728 named and \* unnamed  
Conc: 3.457 of which 3.457 named and \* unnamed

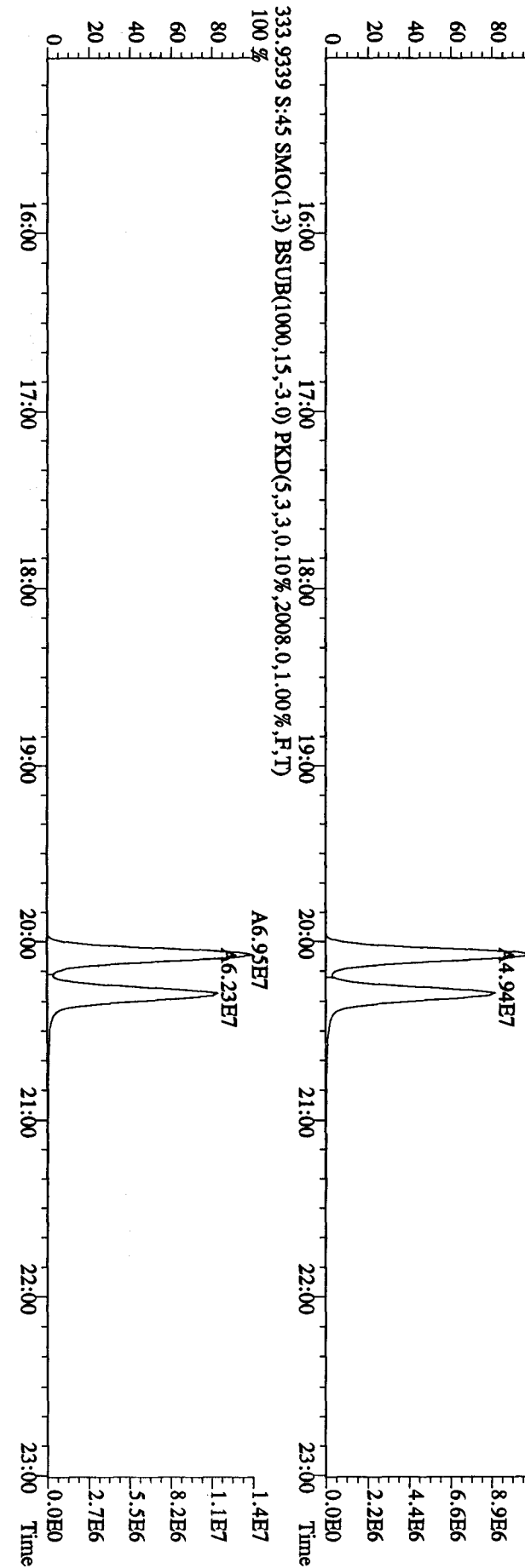
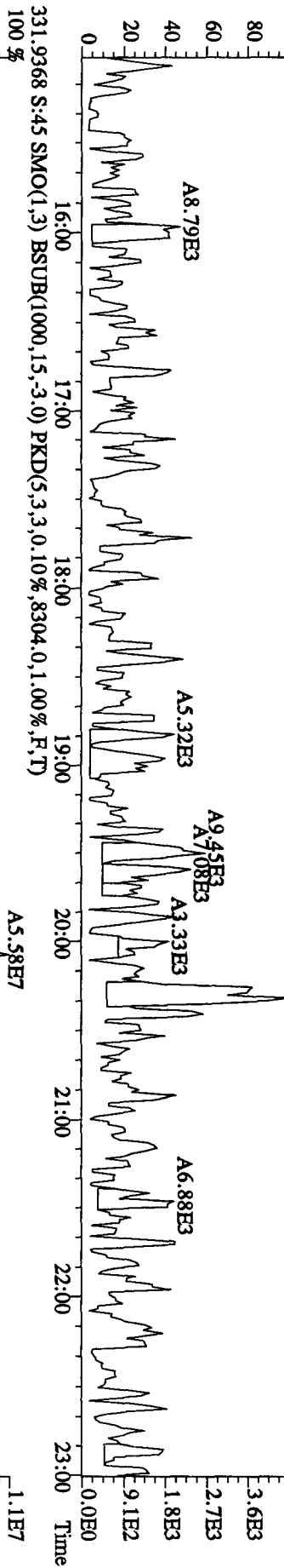
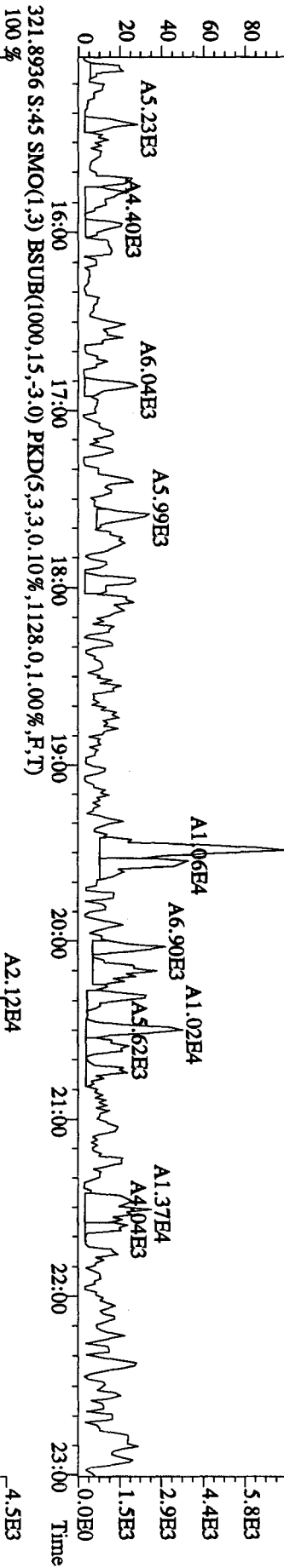
| Name                | # | R.T.  | Ratio   | Conc. | Area  | S/N   | >? | Mod? |
|---------------------|---|-------|---------|-------|-------|-------|----|------|
| 1,2,3,4,6,7,8-HpCDF | 1 | 34:57 | 1.410 n | 2.582 | 38683 | 5.440 |    | y y  |
|                     |   |       |         |       | 27443 | 6.471 |    | y y  |
| 1,2,3,4,7,8,9-HpCDF | 2 | 36:10 | 1.464 n | 0.975 | 11054 | 1.840 |    | n n  |
|                     |   |       |         |       | 7551  | 1.690 |    | n n  |

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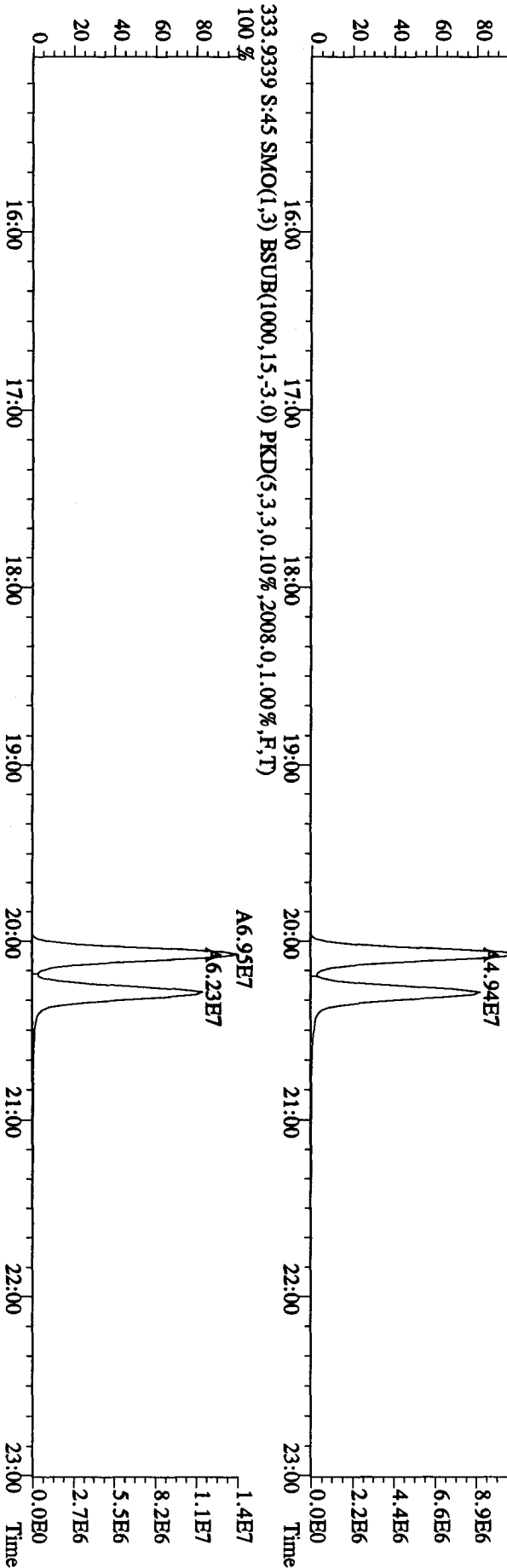
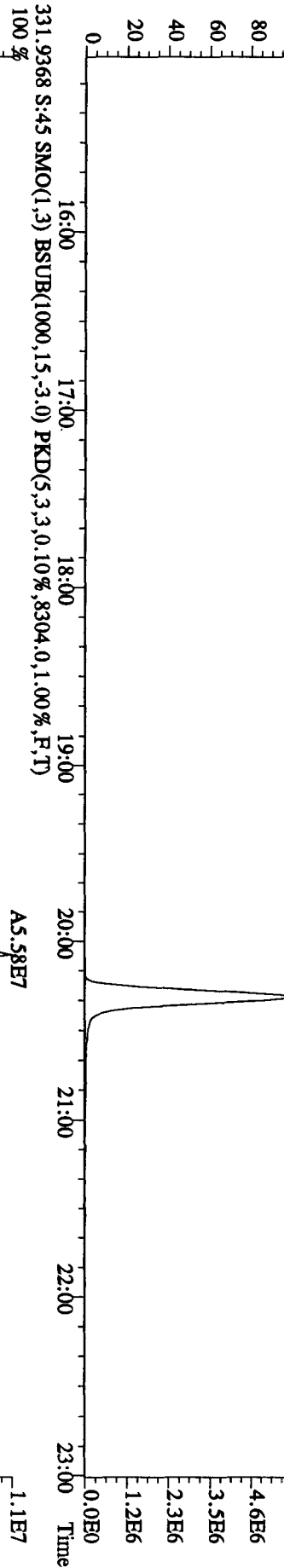
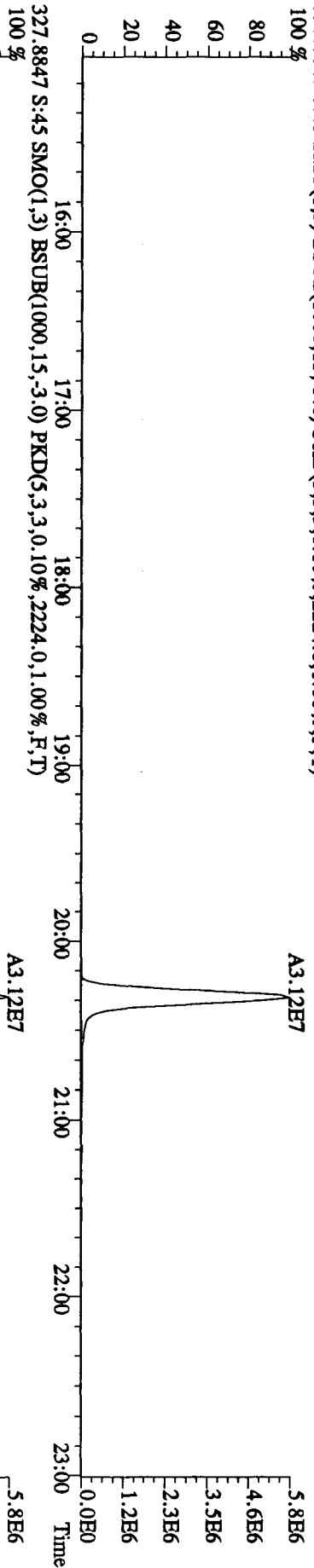
File:14OC104D5 #1-530 Acq:15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#45 Text:179L2-1-AA :G01090500-7MB Exp:DIOXINRES  
 303.9016 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1052.0,1.00%,F,T)  
 100 %



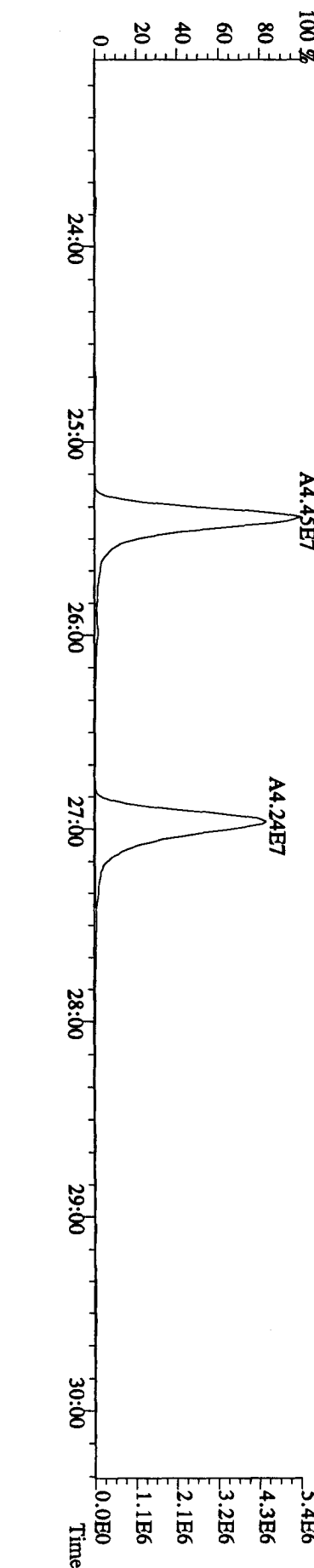
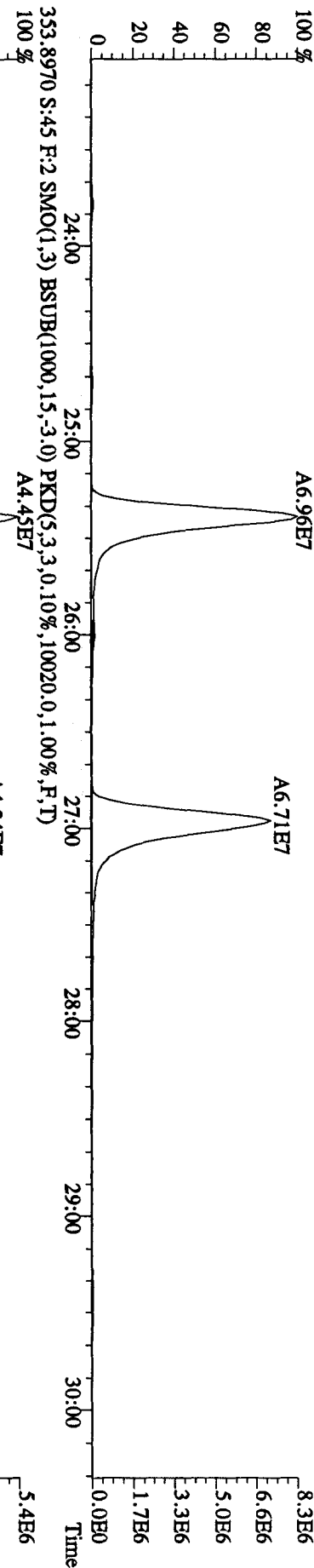
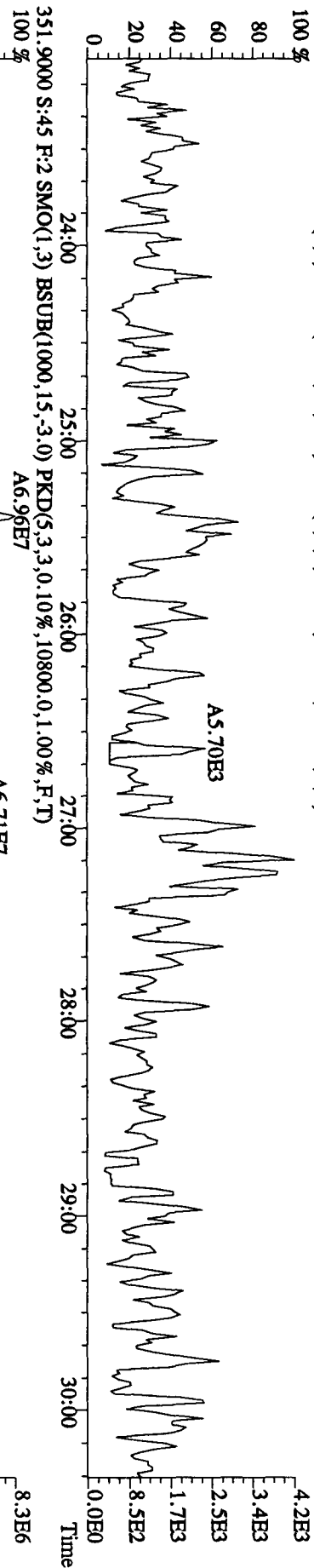
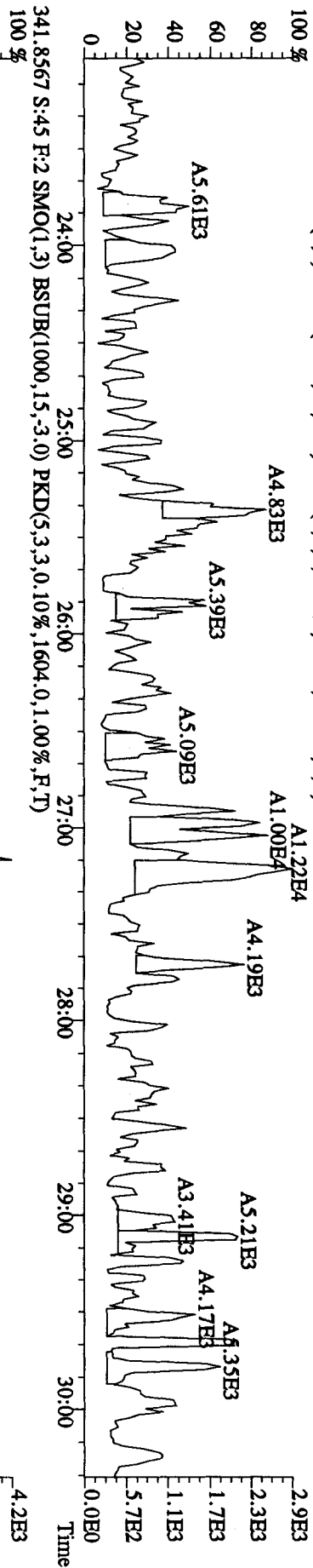
File:14OC104D5 #1-530 Acq:15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#45 Text:L79L2-1-AA :G01090500-7MB Exp:DIOXINRES  
 319.8965 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1140.0,1.00%,F,T)

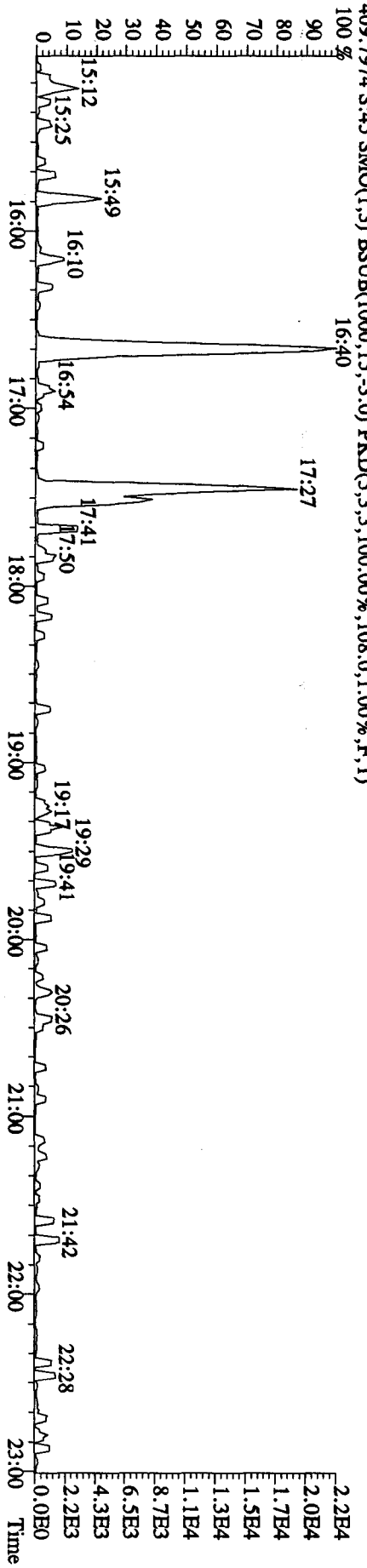
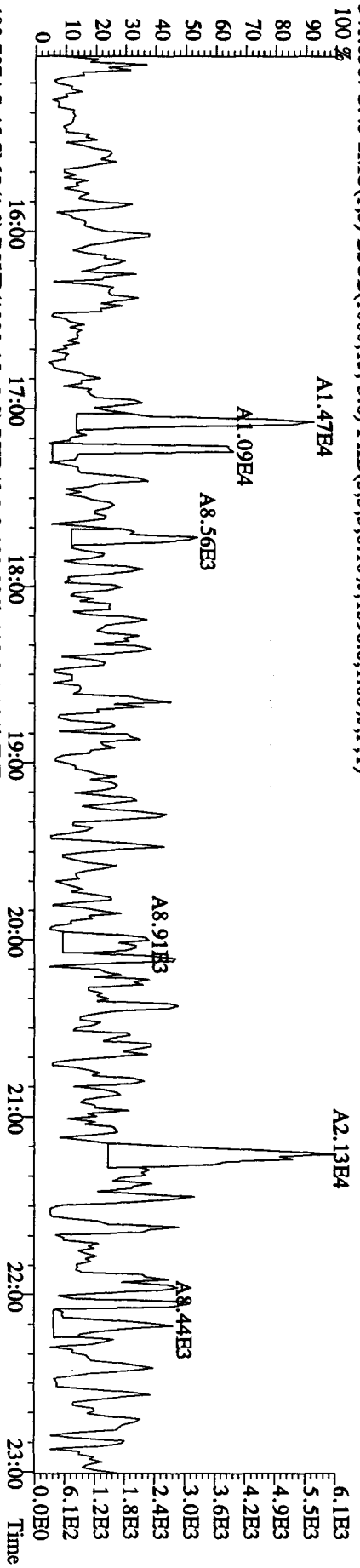
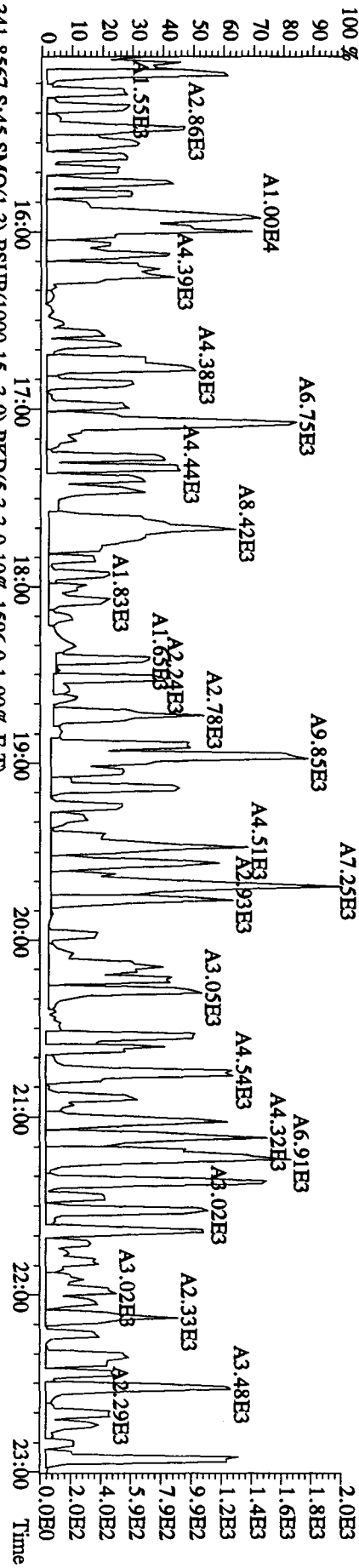


File: 14OC104D5 #1-530 Acq: 15-OCT-2010 18:46:46 GC EI + Voltage SIR Autospec-UltimaB  
Sample#45 Text: L79L2-1-AA : G0J090500-7MB Exp: DIOXINRES  
327.8847 S:45 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2224.0,1.00%,F,T)



File:14OC104D5 #1-470 Acq:15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#45 Text:179L2-1-AA :G01090500-7MIB Exp:DIOXINRES  
 339.8597 S:45 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,752.0,1.00%,F,T)  
 100 %



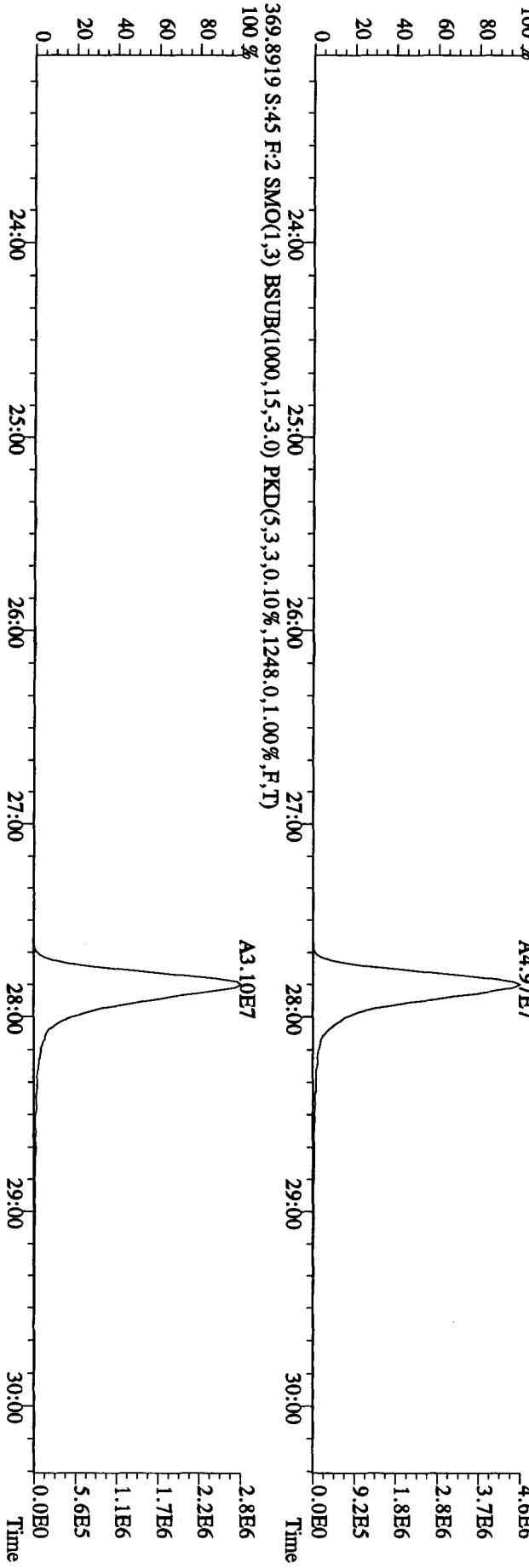
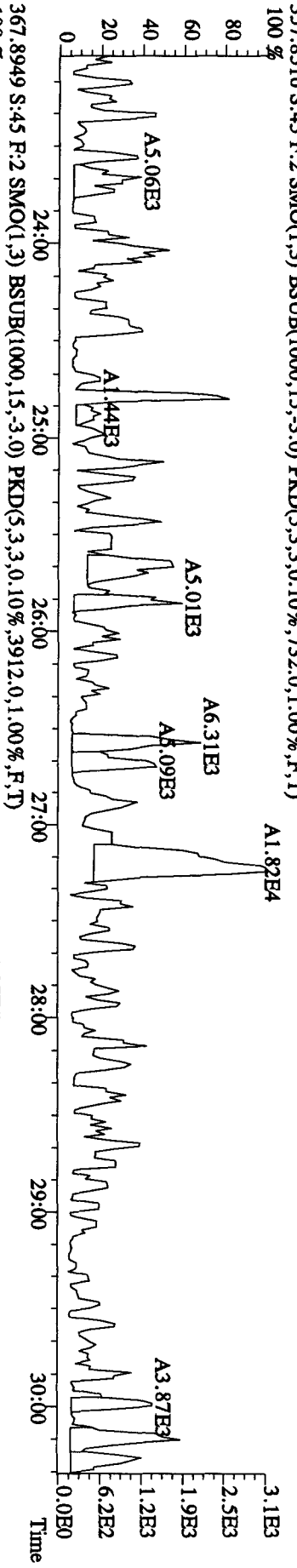
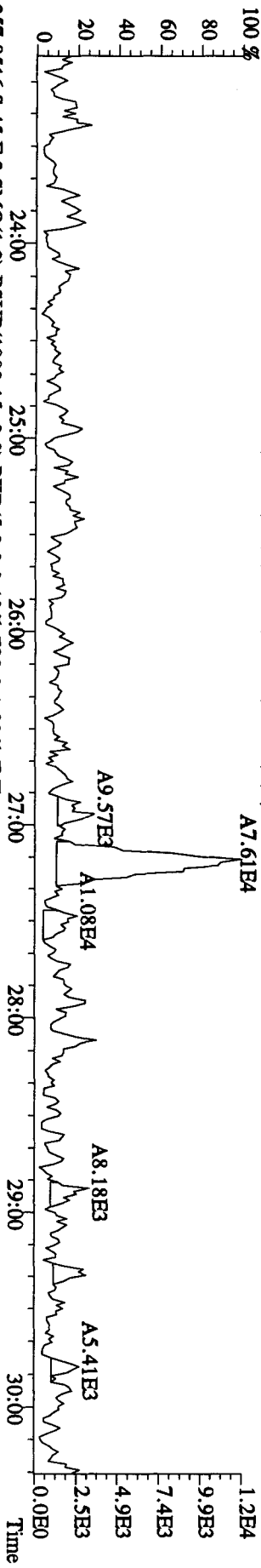


File:14OC104D5 #1-470 Acq:15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE

Sample#45 Text:L79L2-1-AA :G0J090500-7MB

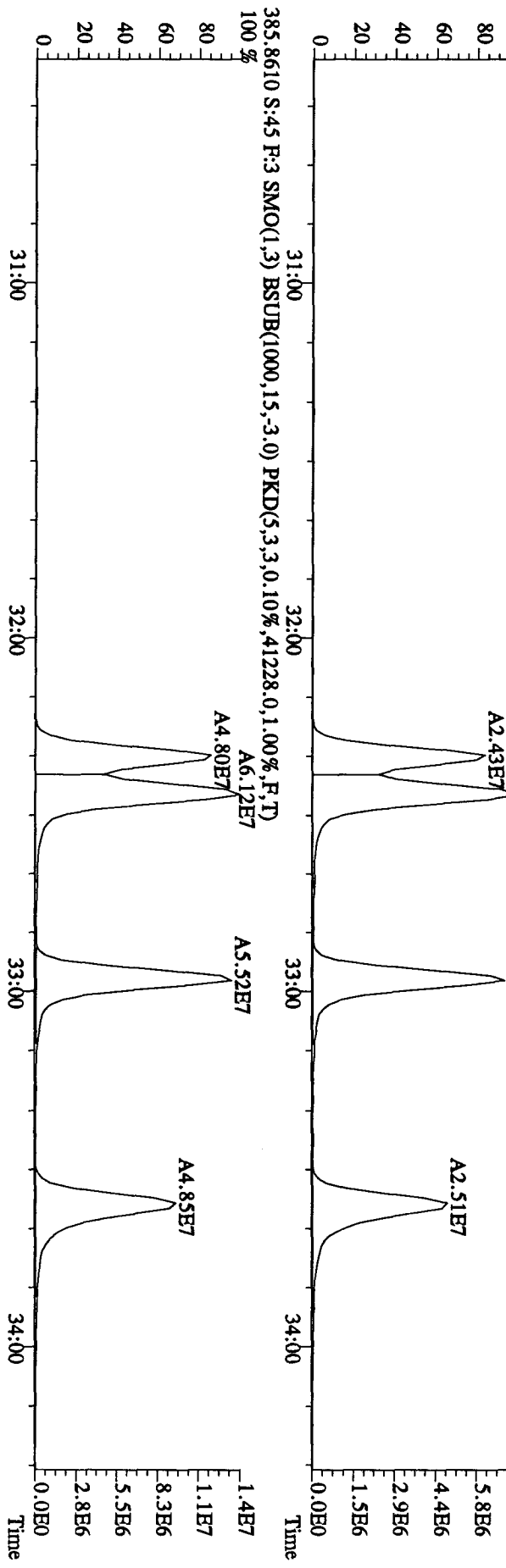
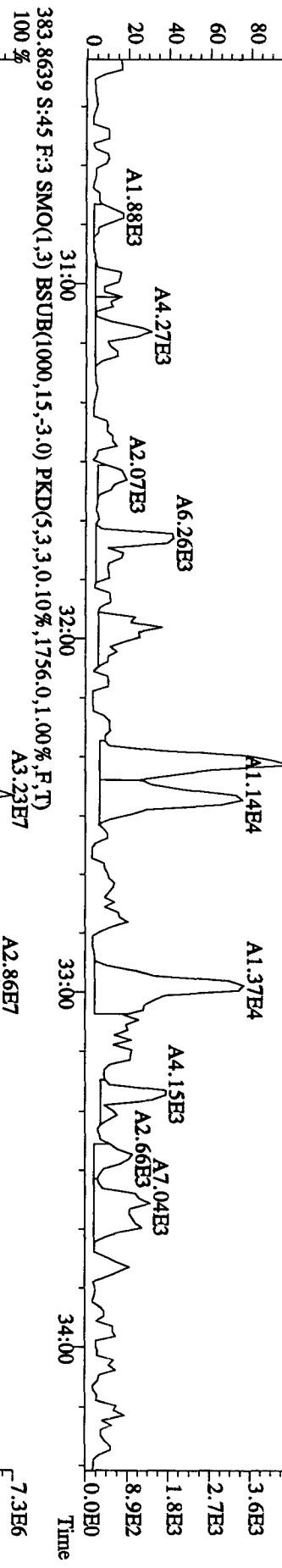
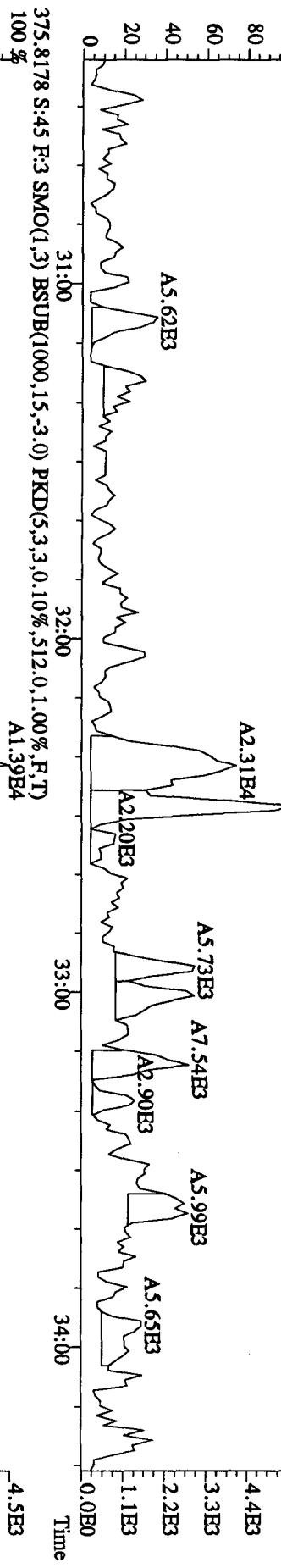
Exp:DIOXINRES

355.8546 S:4.5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.612,0.1,1.00%,F,T)

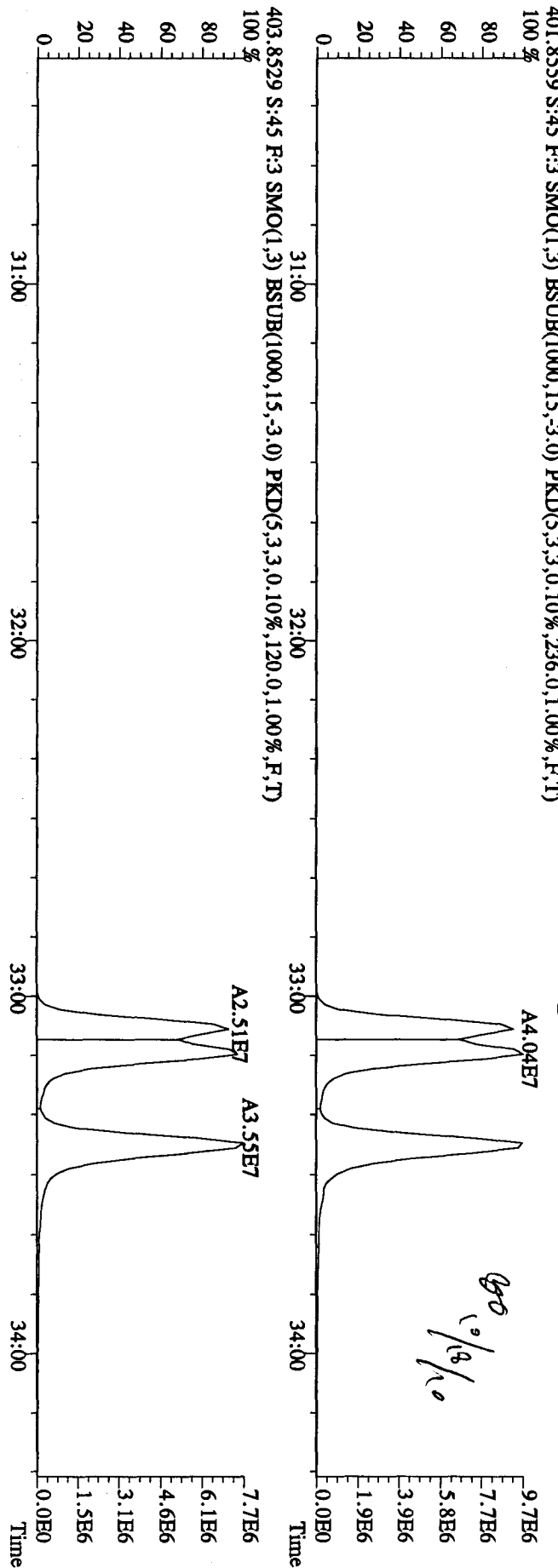
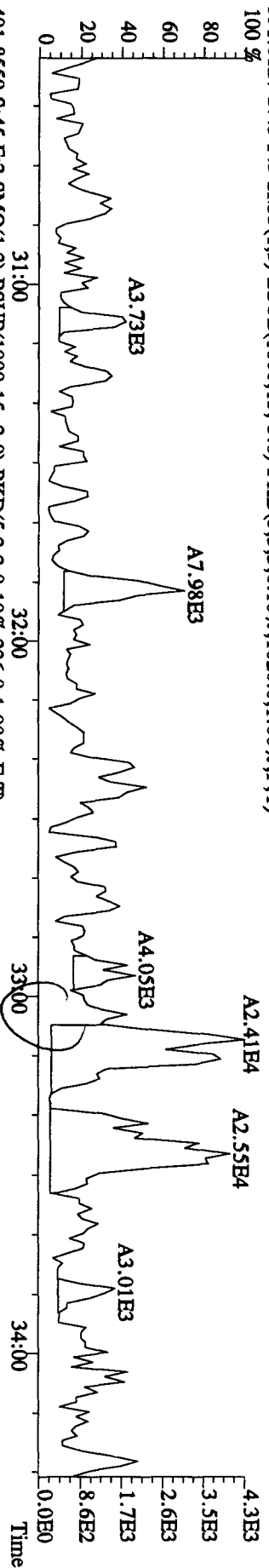
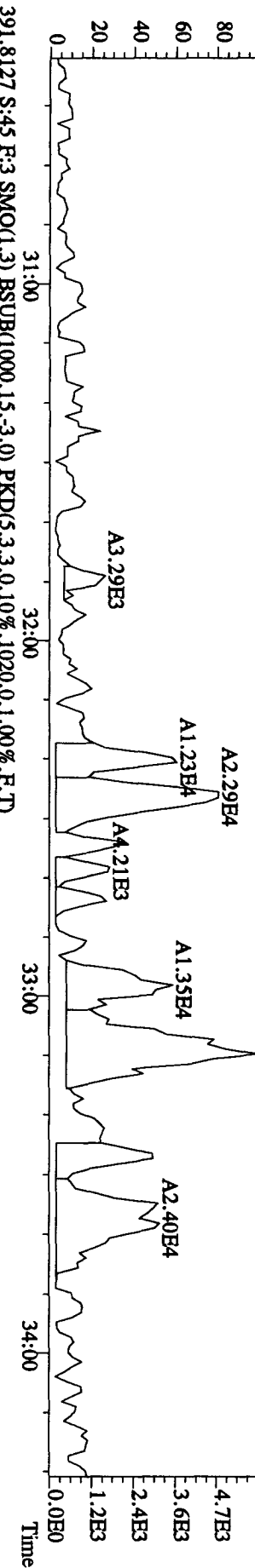




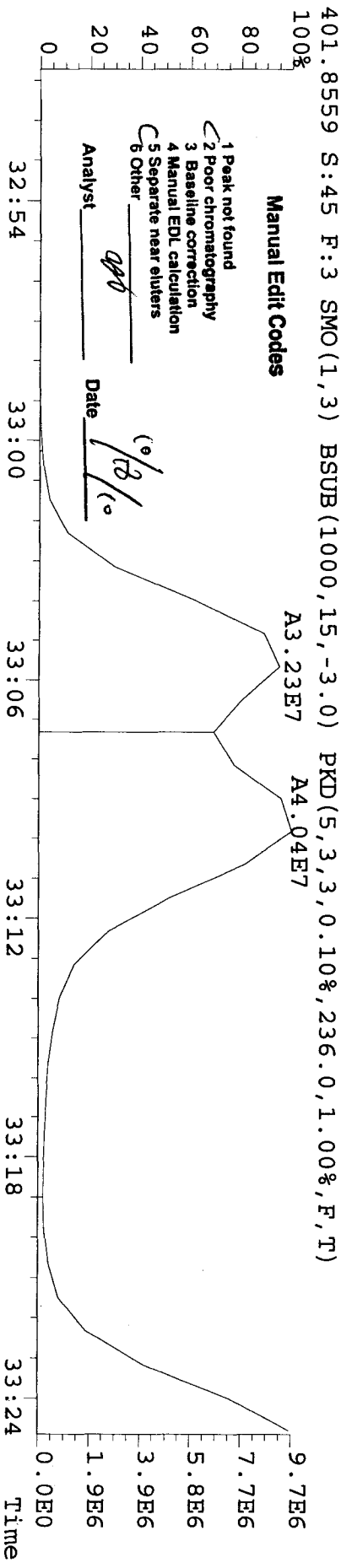
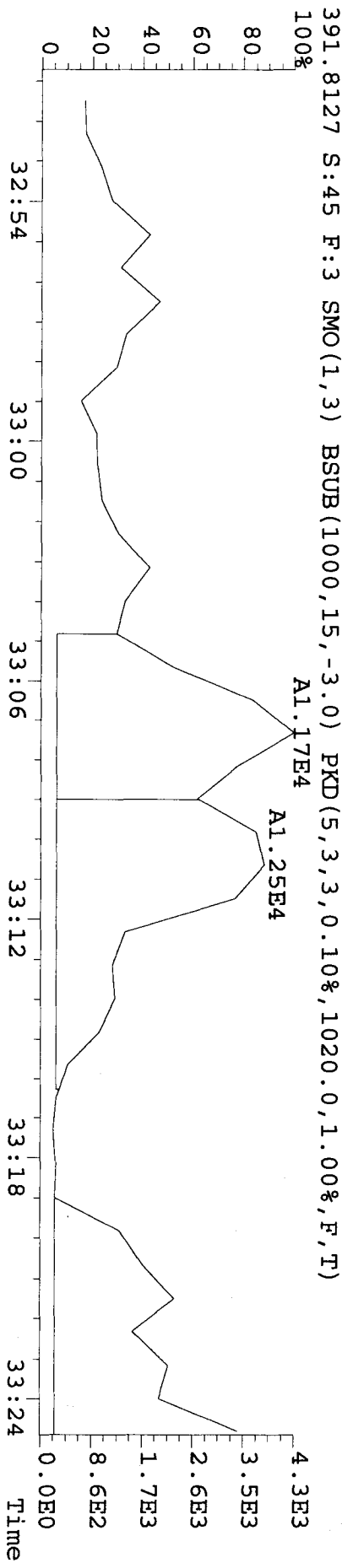
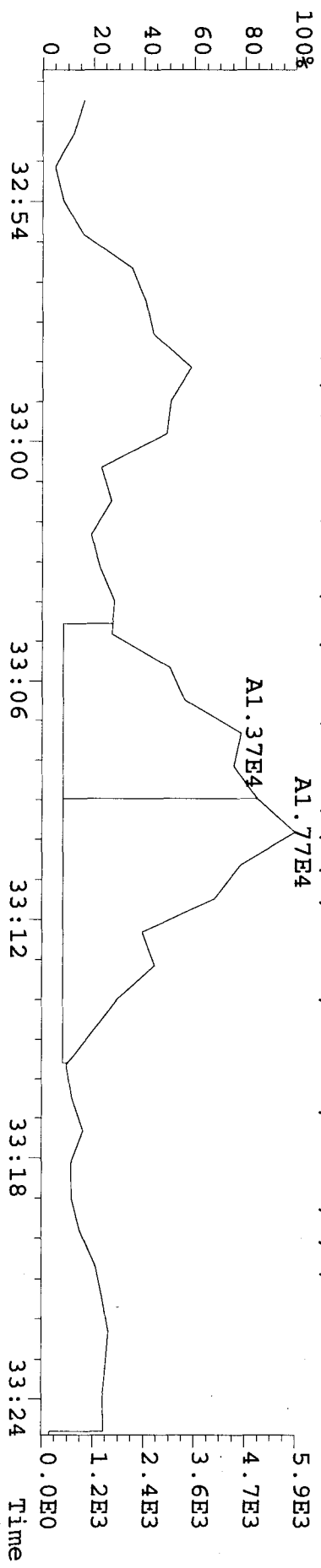
File:14OC104D5 #1-287 Acq:15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#45 Text:L79L2-1-AA :G01090500-7MB Exp:DIOXINRES  
 373.8208 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1116,0,1.00%,F,T) A1.64E4  
 100 %



File: 14OC104D5 #1-287 Acq: 15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#45 Text: L79L2-1-AA : G0J090500-7MB Exp: DIOXINRES  
 389.8157 S:45 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1048,0.1,0.00%,F,T)



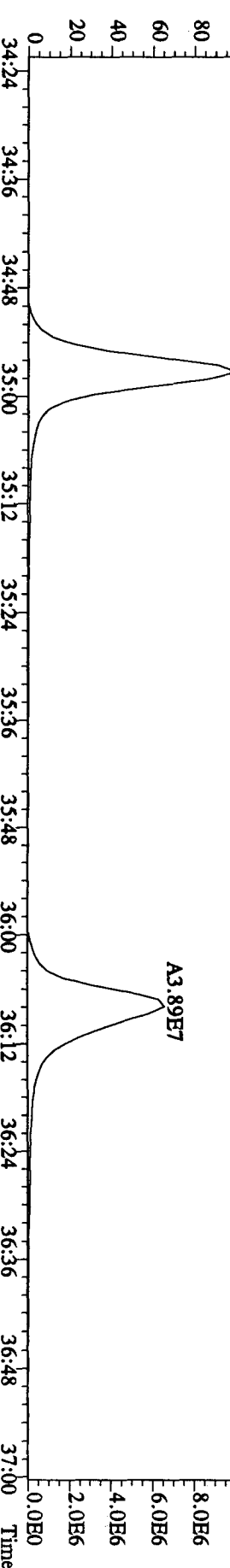
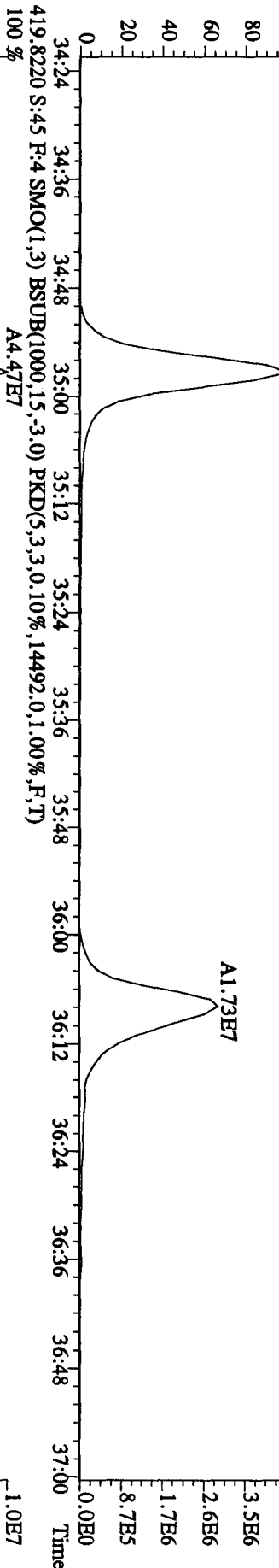
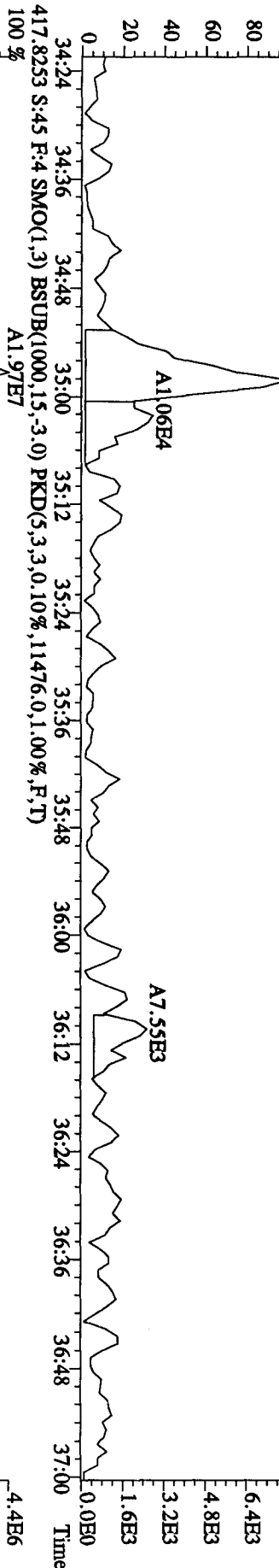
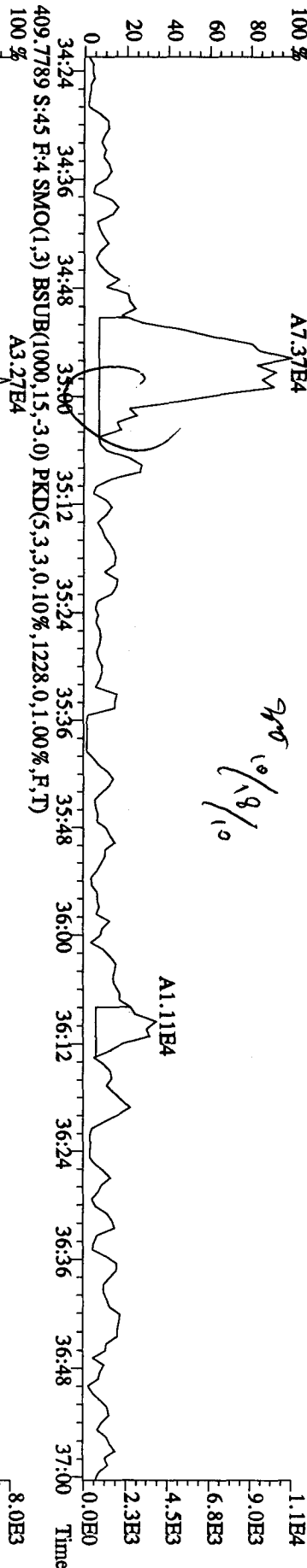
File: 14OC104D5 #1-287 Acq: 15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#45 Text: L79L2-1-AA : G0J090500-7M Exp: DIOXINRES  
 389.8157 S: 45 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1048.0,1.00%,F,T) 100%



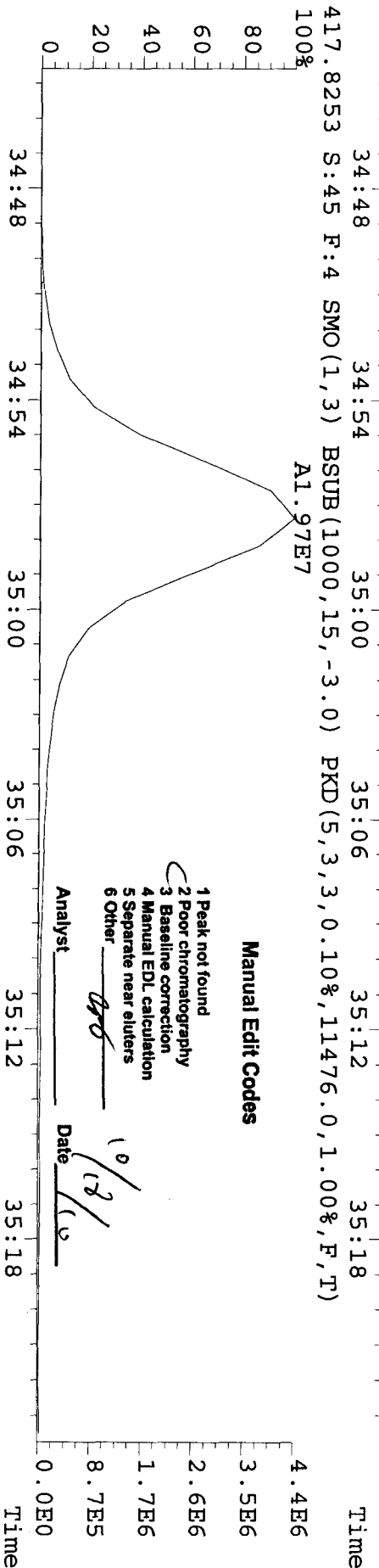
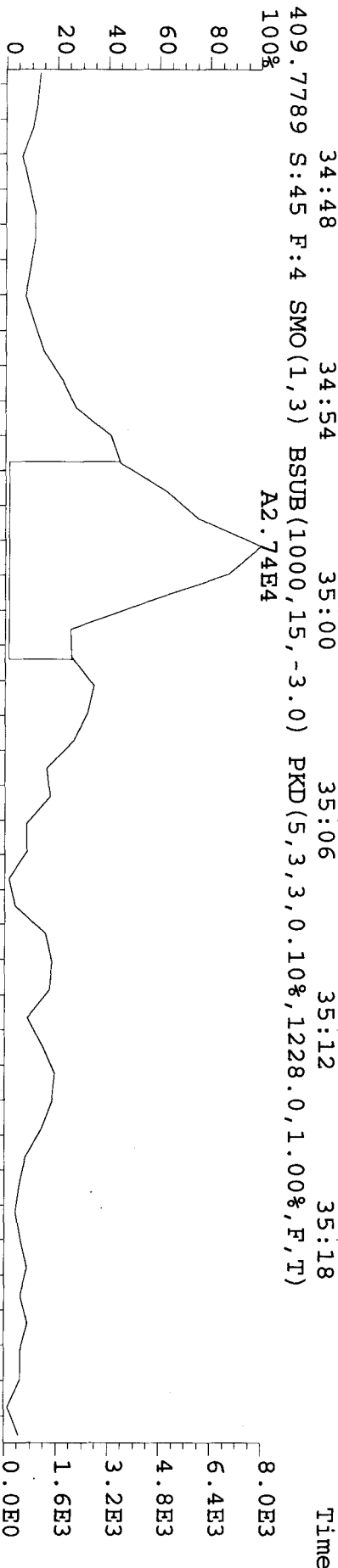
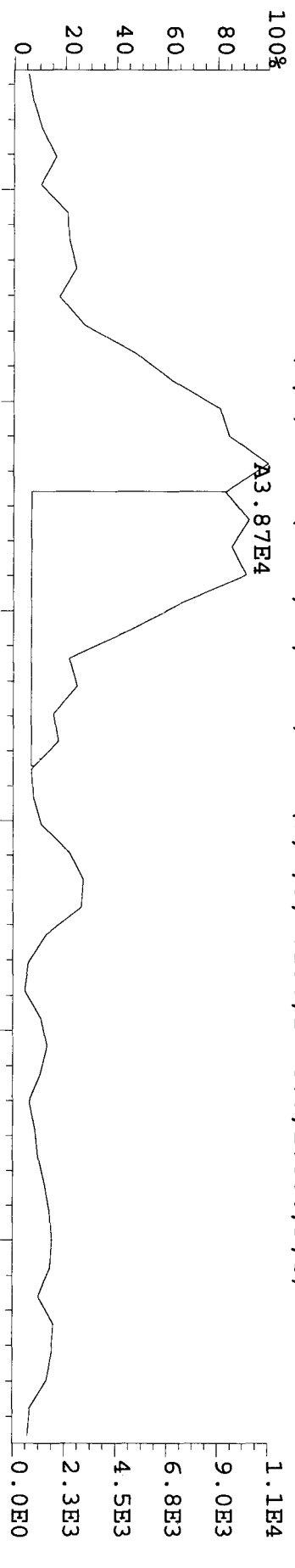
- Manual Edit Codes**
- 1 Peak not found
  - 2 Poor chromatography
  - 3 Baseline correction
  - 4 Manual EDL calculation
  - 5 Separate near eluters
  - 6 Other

Analyst APD Date 10/28/10

*2nd 10/18/10*



File: 140C104D5 #1-200 Acq: 15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#45 Text: L79L2-1-AA : G0J090500-7M Exp: DIOXINRES  
 407.7818 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1776.0,1.00%,F,T)



**Manual Edit Codes**

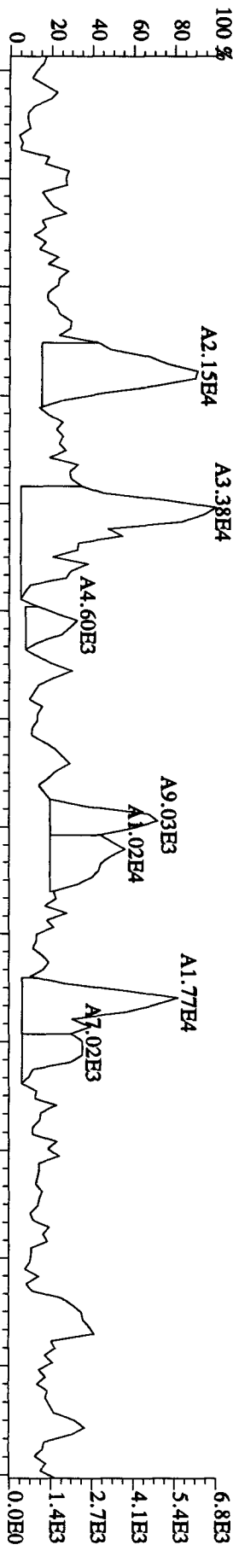
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst           

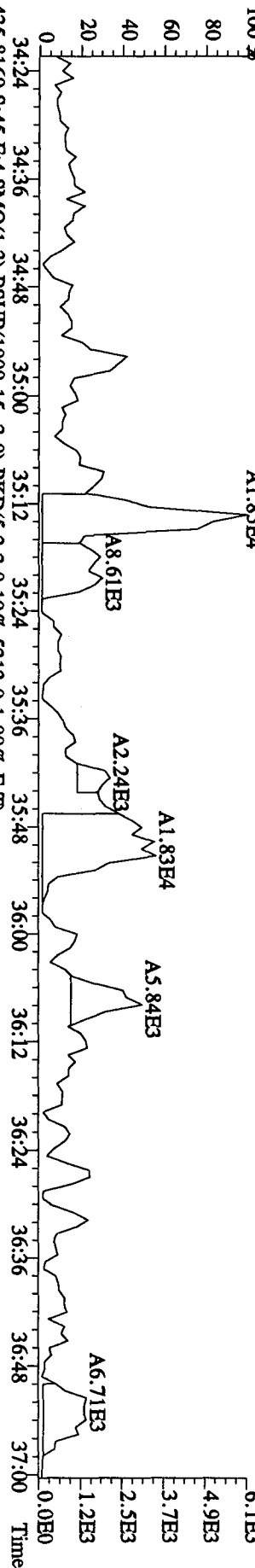
Date 10/12/10

Sample#45 Text:L79L2-1-AA :G01090500-7MB

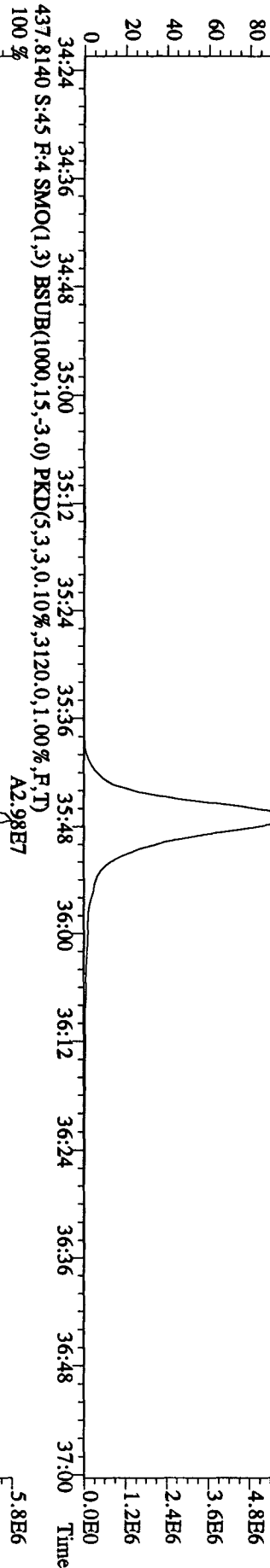
423.7766 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1668,0.1,00%,F,T)



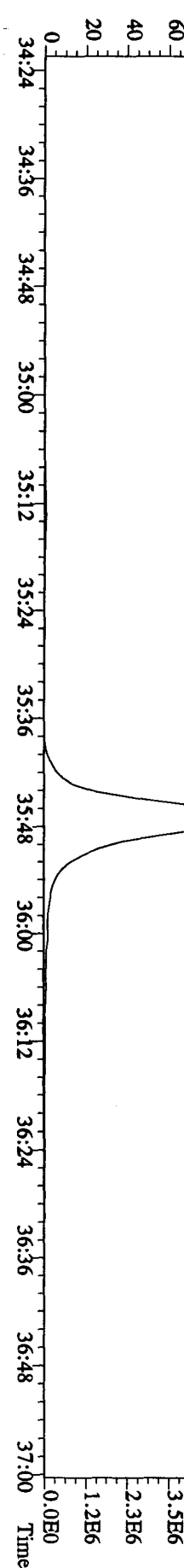
425.7737 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1236,0.1,00%,F,T)



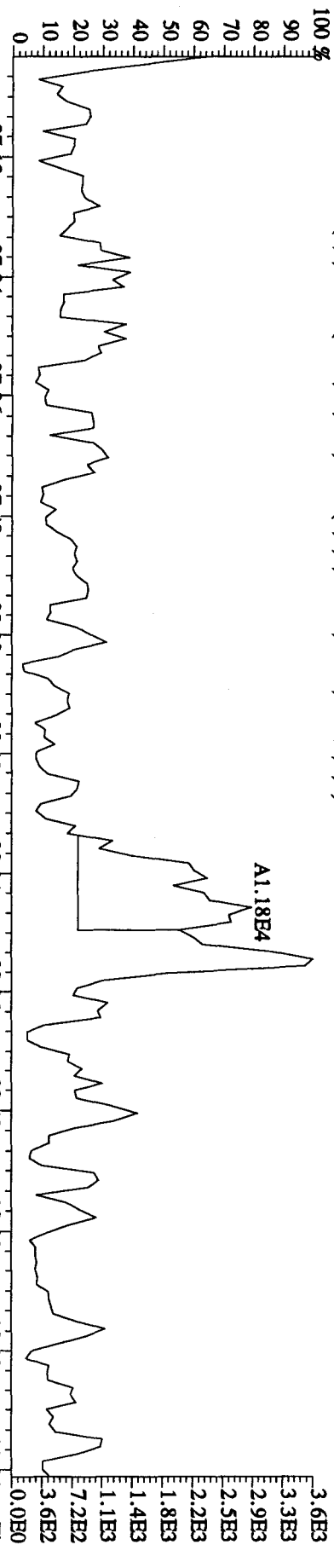
435.8169 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5212,0.1,00%,F,T)



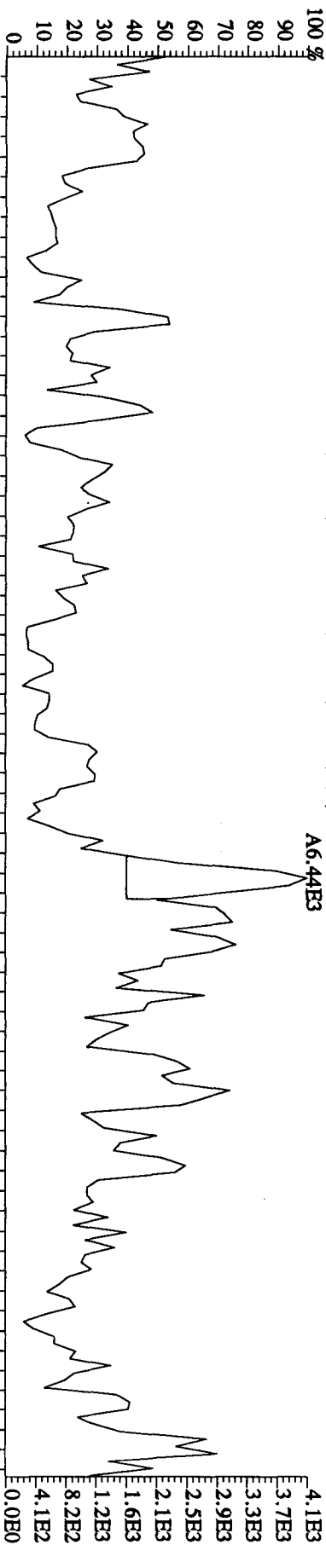
437.8140 S:45 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3120,0.1,00%,F,T)



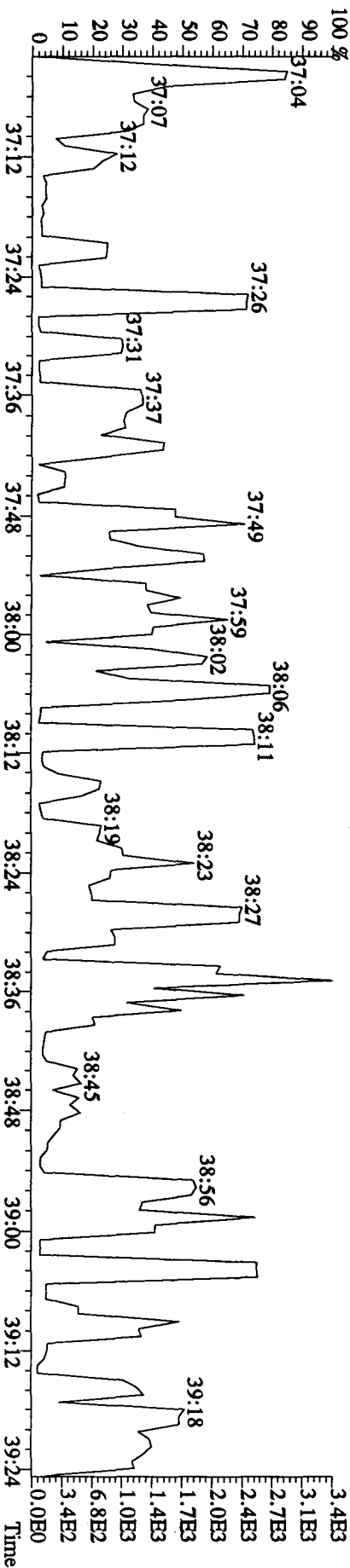
File:14OC104D5 #1-193 Acq:15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#45 Text:L79L2-1-AA :G01090500-7MB Exp:DIOXINRES  
 441.7428 S:45 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,860.0,1.00%,F,T)



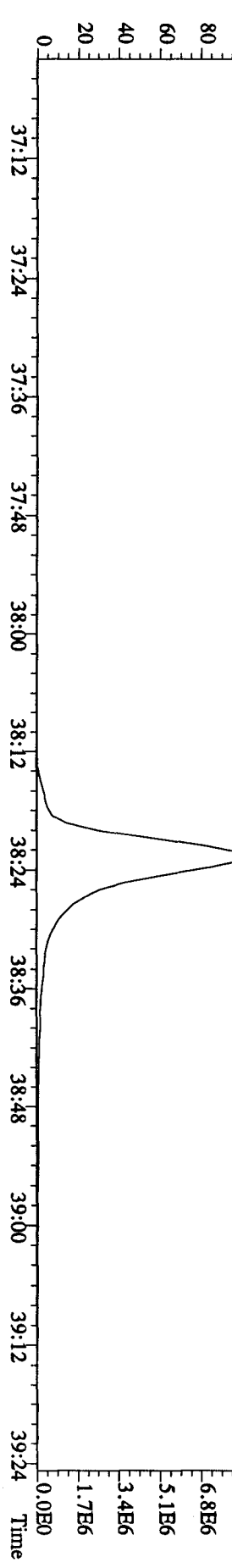
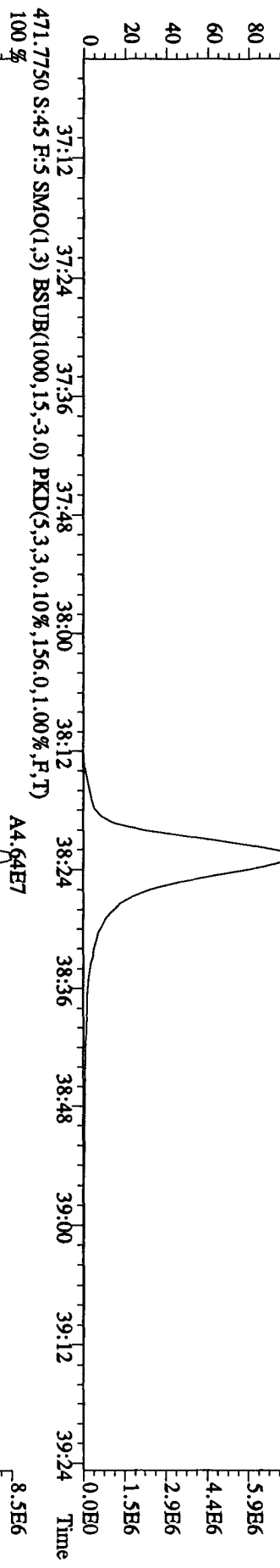
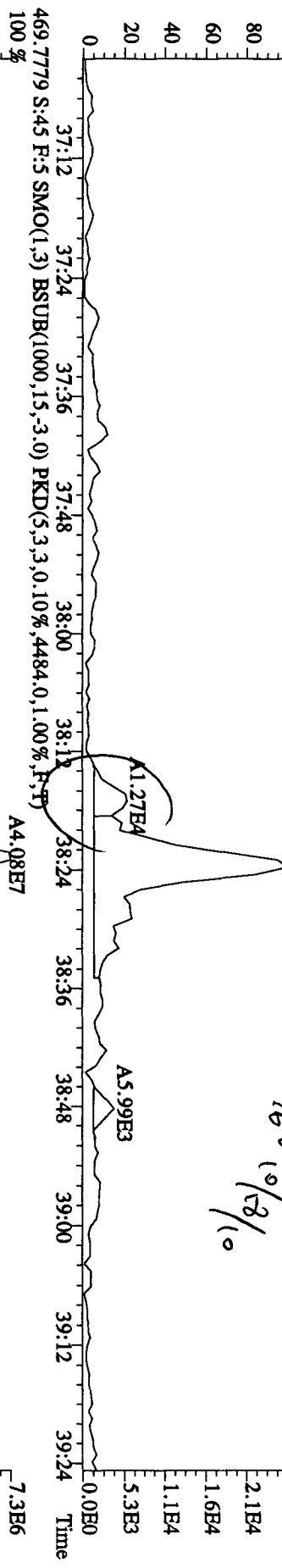
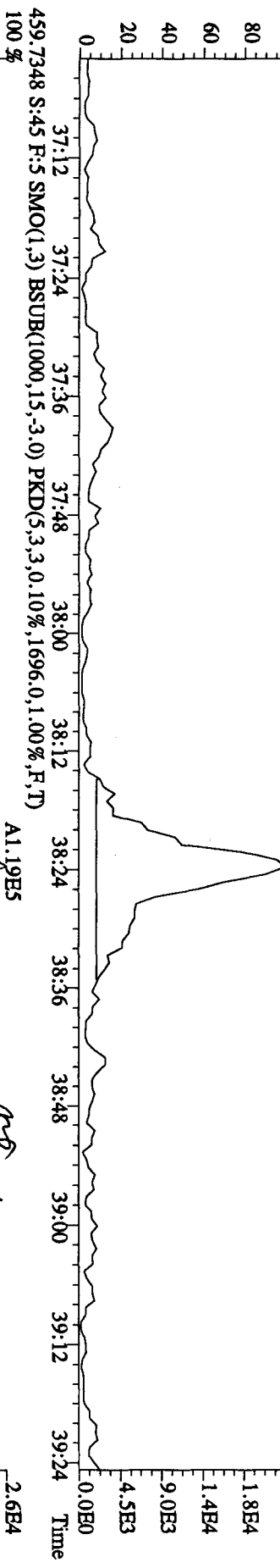
443.7399 S:45 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1504.0,1.00%,F,T)



513.6775 S:45 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,2128.0,1.00%,F,T)



File: 140C104D5 #1-193 Acq: 15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#45 Text: L79L2-1-AA : G0J090500-7MB Exp: DIOXINRES  
 457.7377 S:45 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1600,0.1,0.0%,F,T)  
 100%

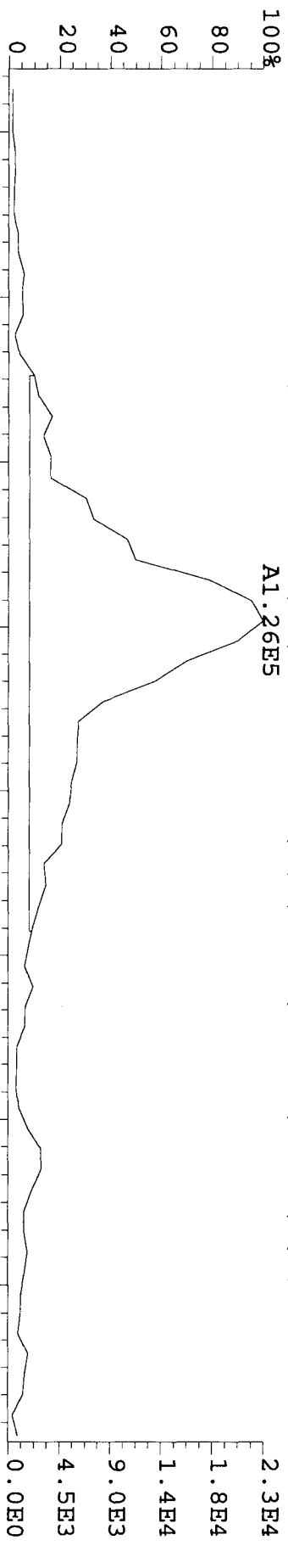




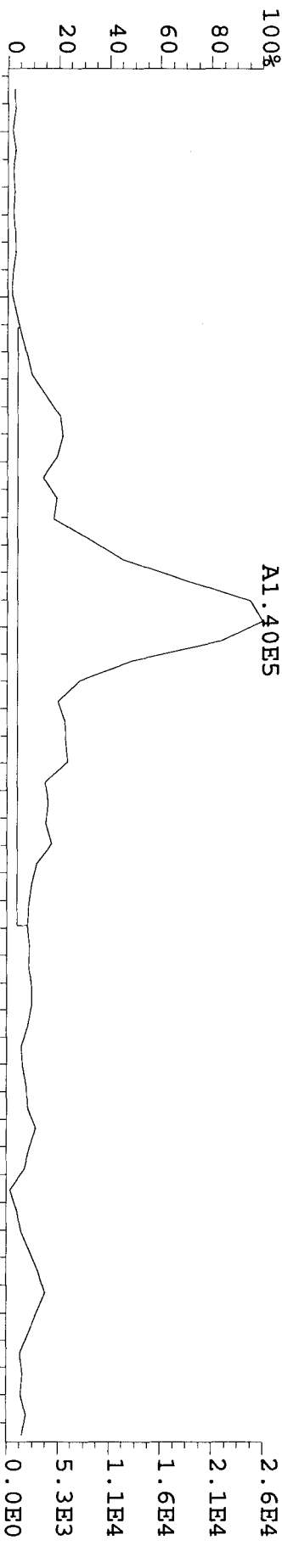
File: 140C104D5 #1-193 Acq: 15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-Ultimate

Sample#45 Text: L79L2-1-AA : G0J090500-7M Exp: DIOXINRES

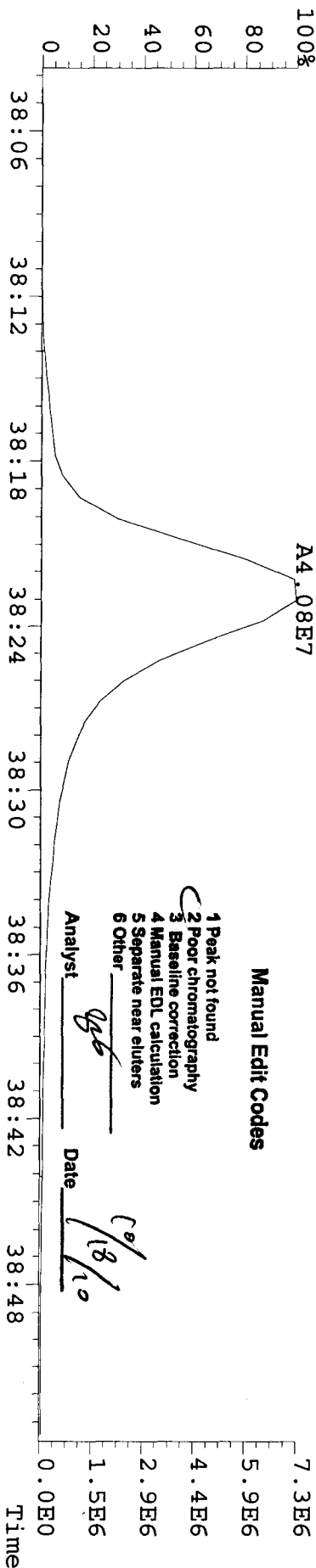
457.7377 S:45 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1600.0,1.00%,F,T)



459.7348 S:45 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1696.0,1.00%,F,T)



469.7779 S:45 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4484.0,1.00%,F,T)



**Manual Edit Codes**

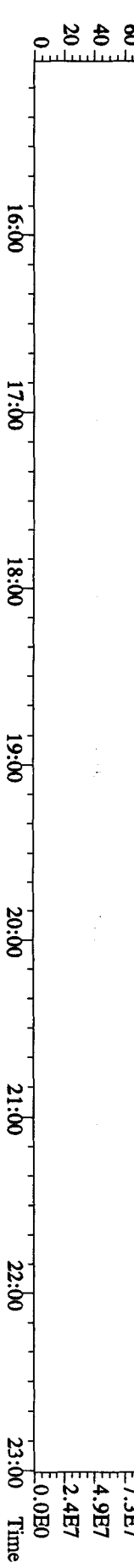
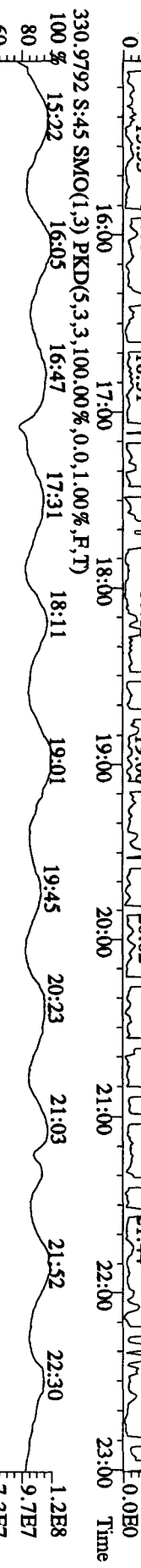
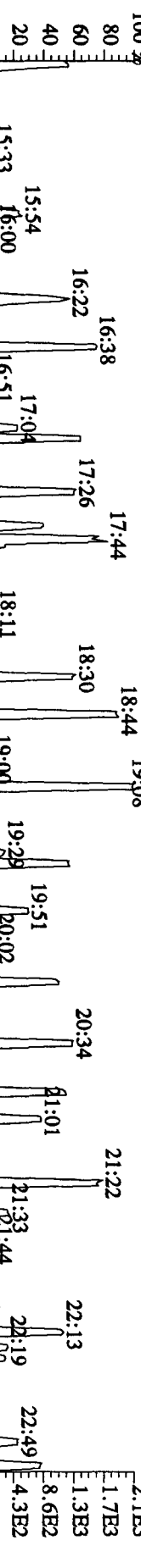
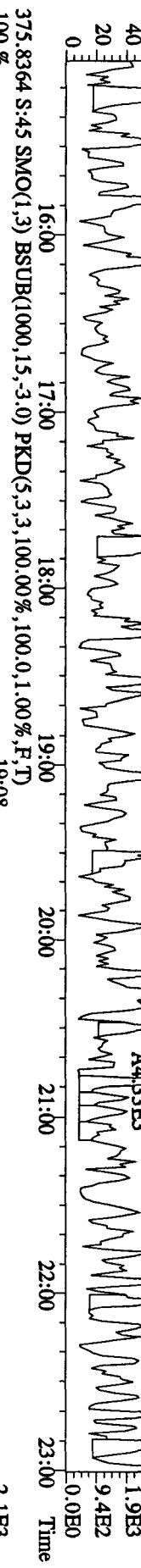
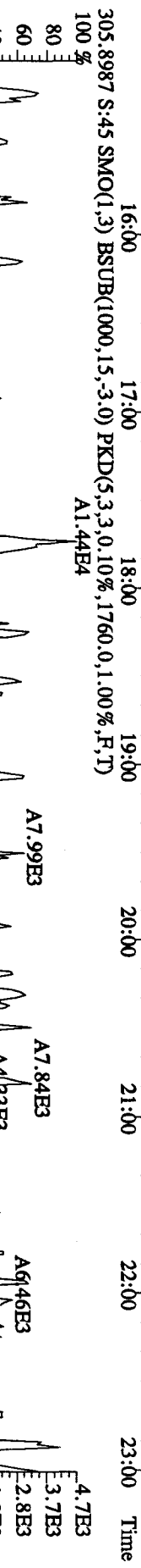
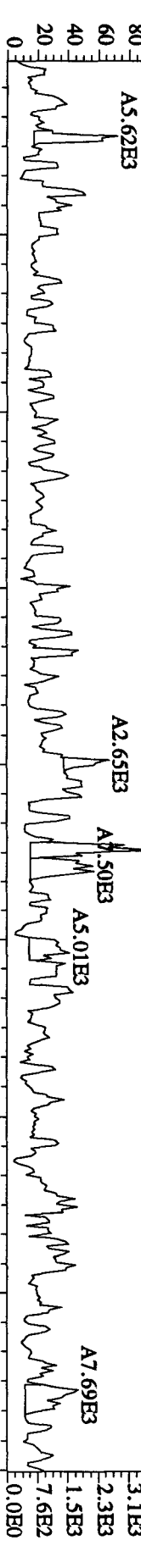
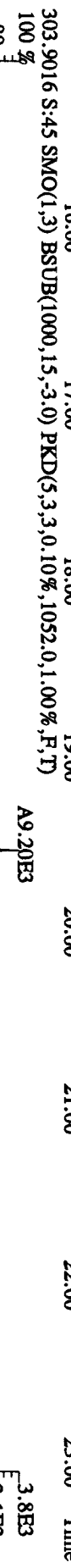
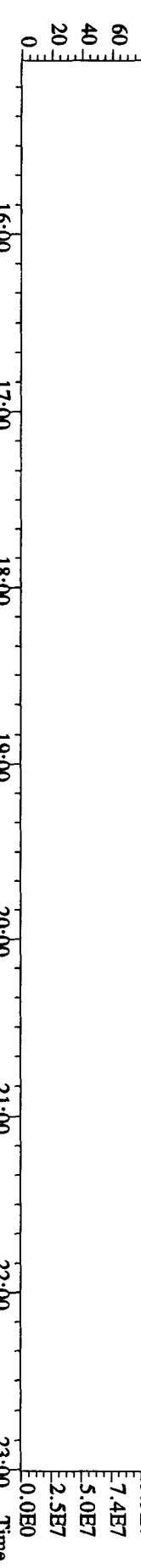
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

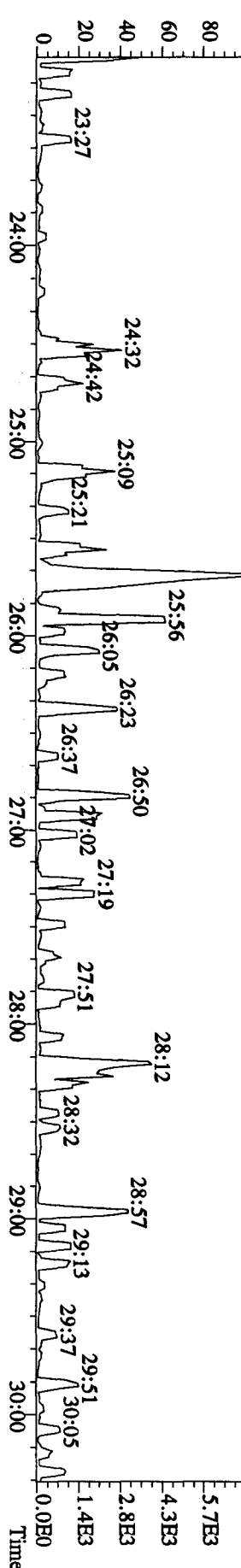
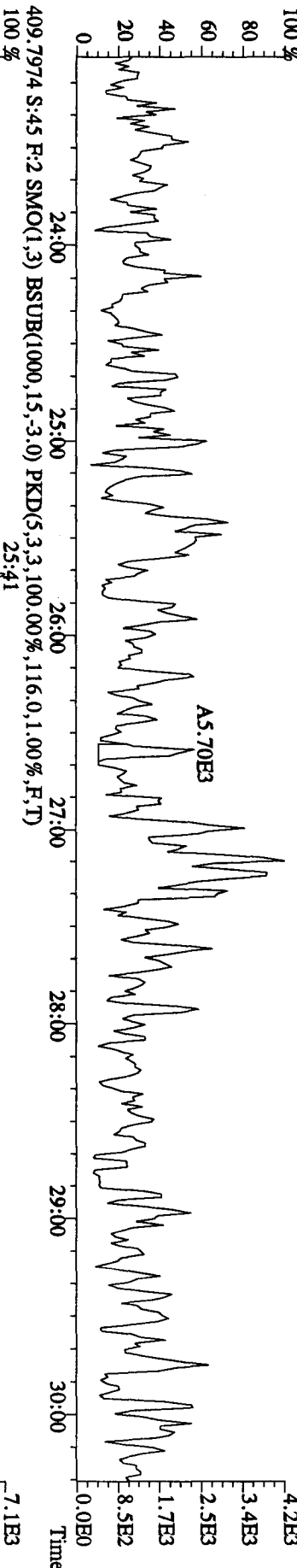
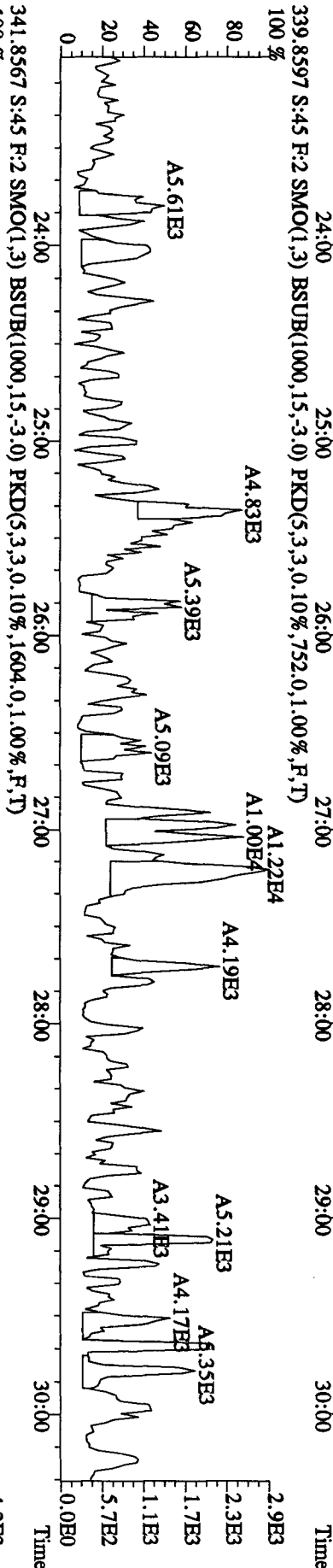
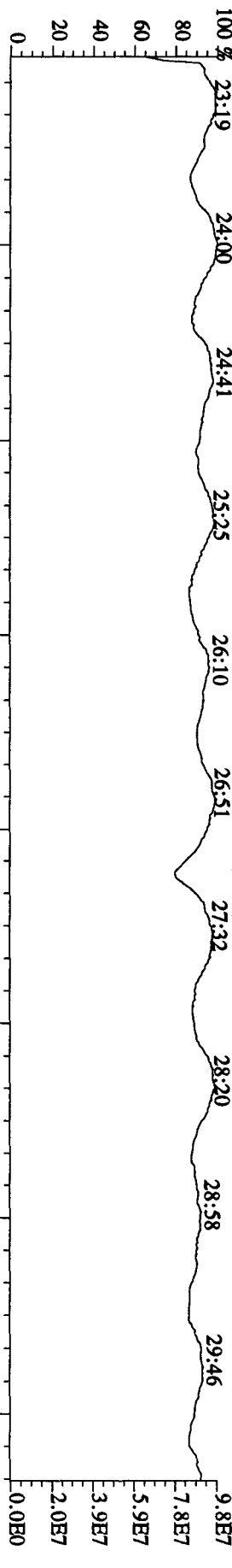
Analyst gjb

Date 10/18/10

Sample#45 Text:L79L2-1-AA :G01090500-7MB Exp:DIOXINRES

292.9825 S:45 SMO(1.3) PKD(5.3,5,100.00%,0.0,1.00%,F,T)





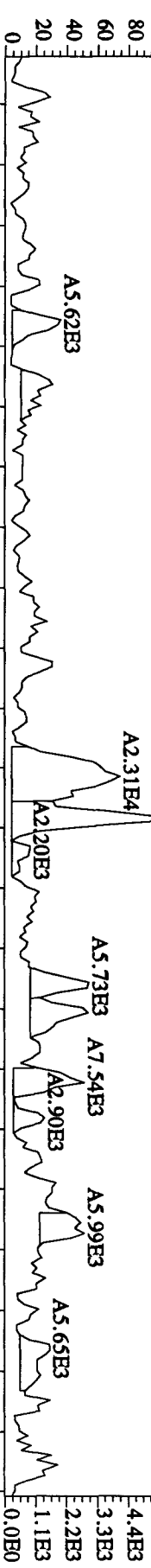
File:14OC104D5 #1-287 Acq:15-OCT-2010 18:46:46 GC EI + Voltage SIR Autospec-UltimaE

Sample#45 Text:L79L2-1-AA :G0J090500-7MB Exp:DIOXINRES

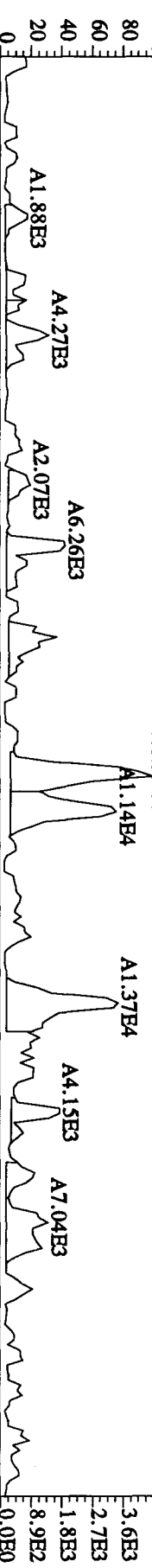
392.9760 S:45 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



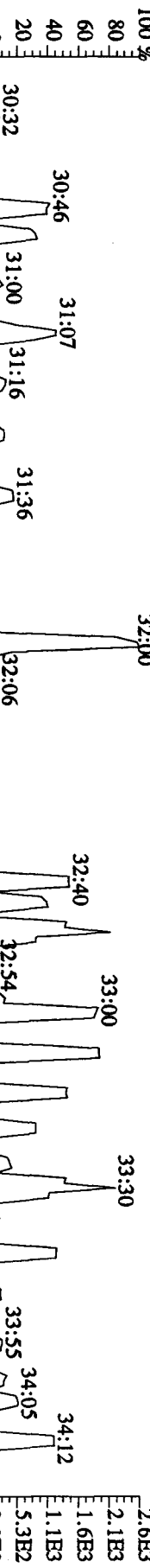
373.8208 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1116.0,1.00%,F,T)



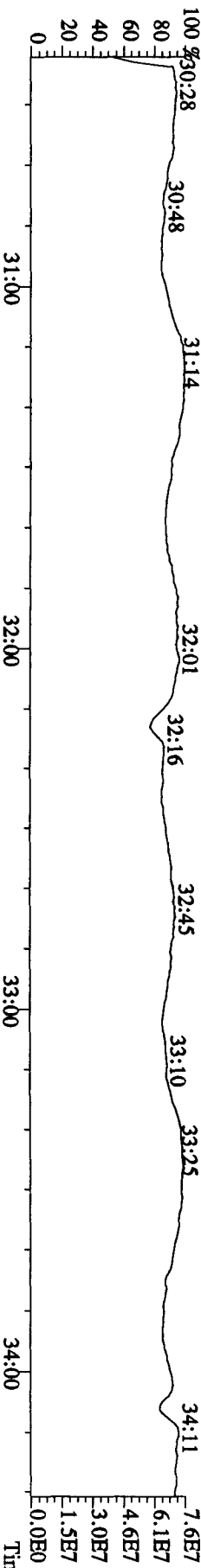
375.8178 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,512.0,1.00%,F,T)



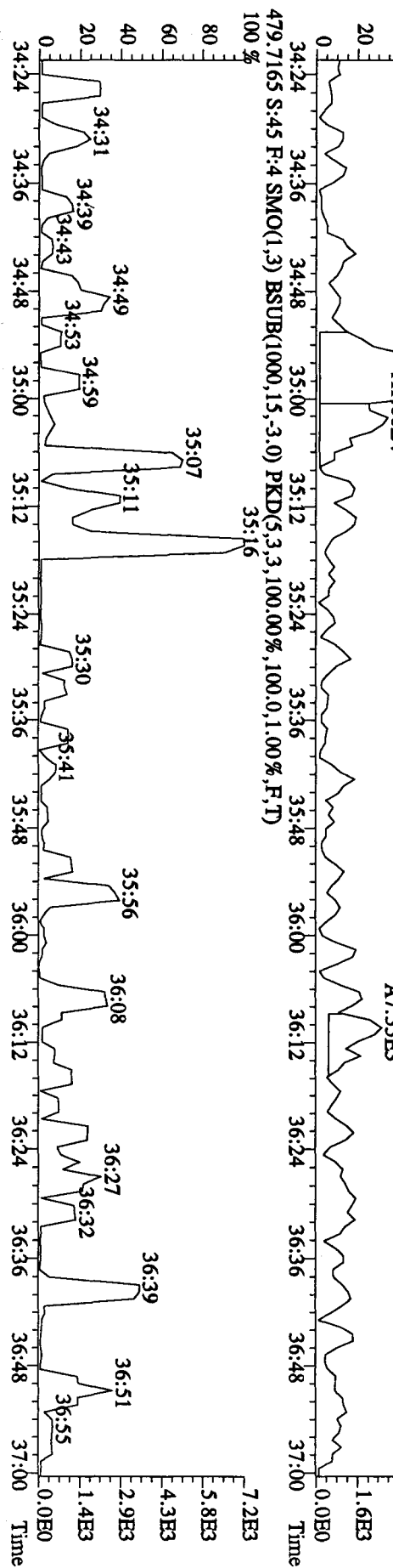
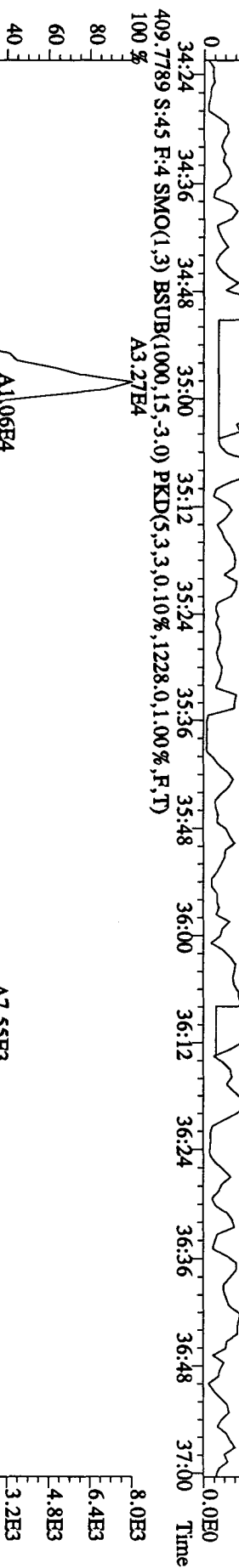
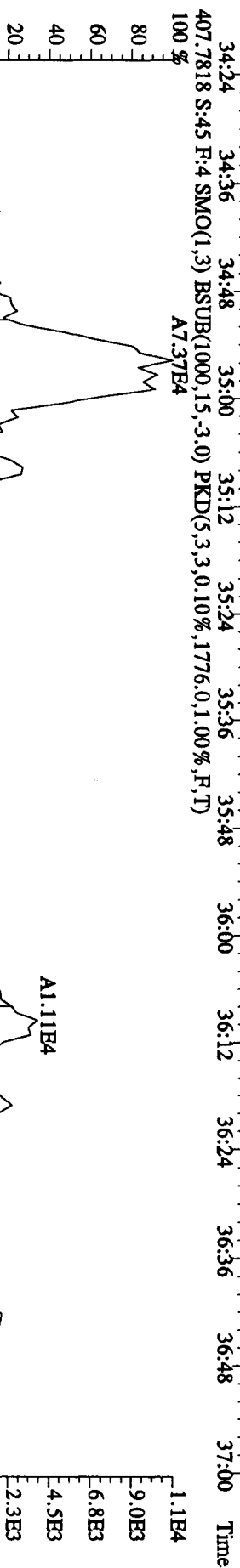
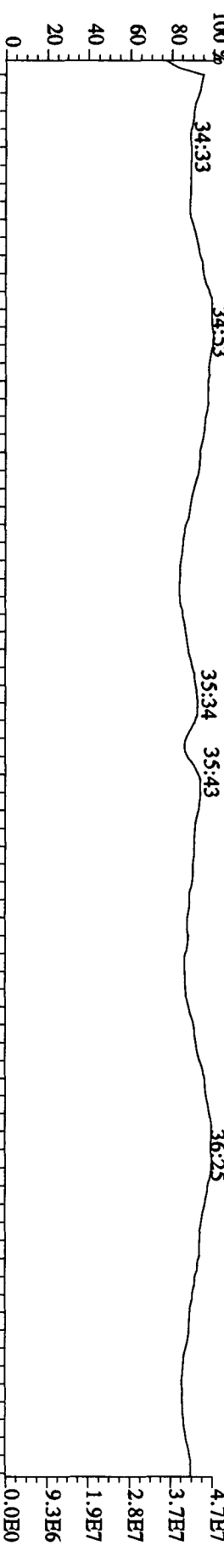
445.7555 S:45 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,124.0,1.00%,F,T)



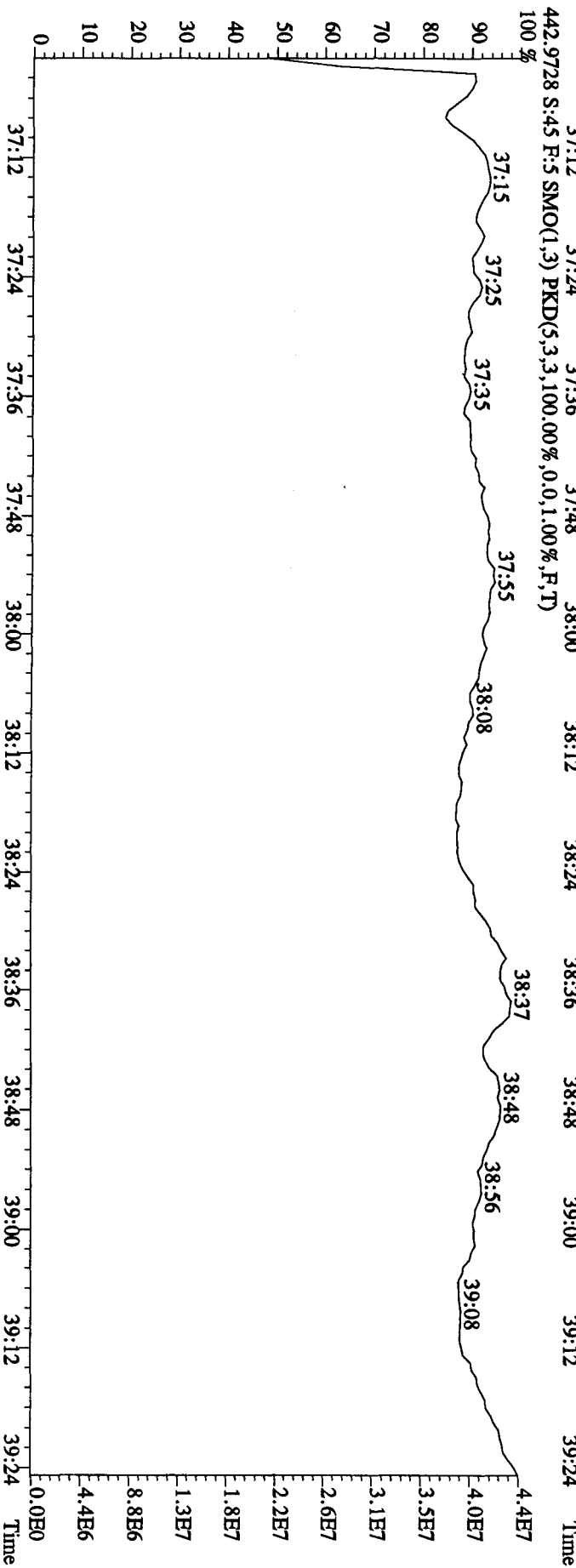
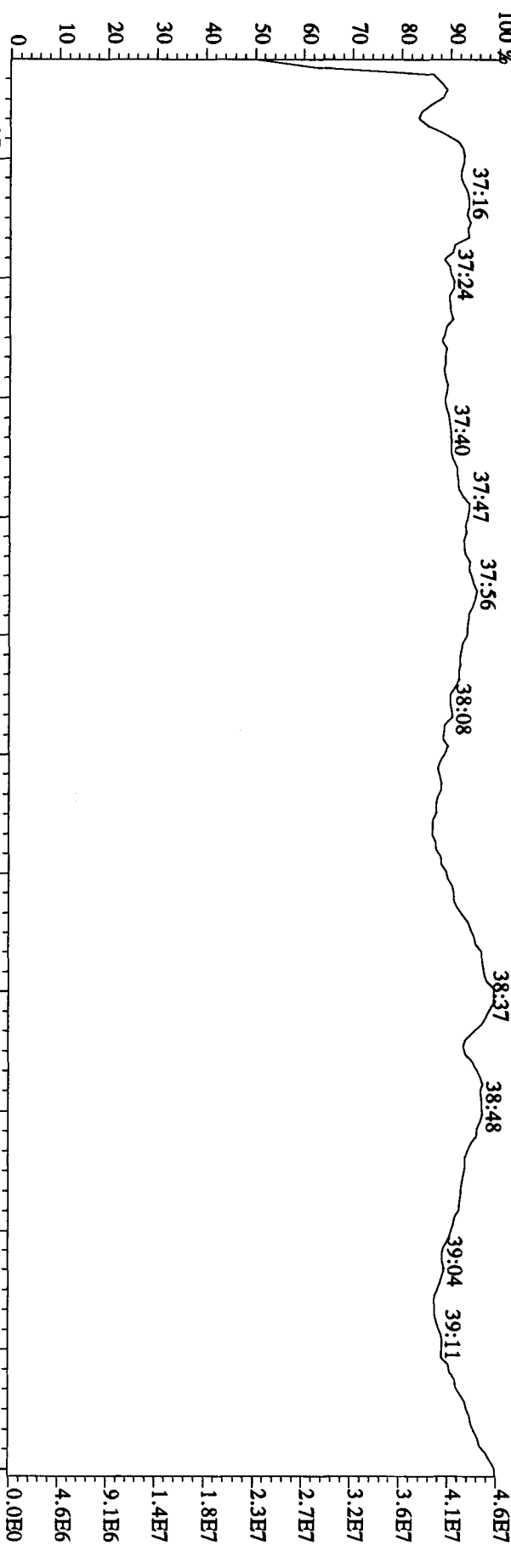
380.9760 S:45 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:140C104D5 #1-200 Acq:15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#45 Text:L79L2-1-AA :G0J090500-7MB Exp:DIOXINRES



File: 14OC104D5 #1-193 Acq: 15-OCT-2010 18:46:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#45 Text: L79L2-1-AA :G01090500-7MB Exp: DIOXINRES  
 454.9728 S:45 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L79L2-1-AC      Sample text: L79L2-1-AC :G0J090500-7LCS  
 Run #12 Filename: 14OC104D5    S: 43    I: 1      Results: 14OC104D5TO9  
 Acquired: 15-OCT-10    17:17:34      Processed: 15-OCT-10    18:33:13  
 Run: 14OC104D5      Analyte: TO9      Cal: TO90721104D5  
 Factor 1:1600.000      Factor 2:20.000      Sample size: 0.50    SAMP

*80*  
*10/18/10*

| Name                    | Resp      | RA     | RT    | RRF  | Conc                | EDL    | Rec   | M |
|-------------------------|-----------|--------|-------|------|---------------------|--------|-------|---|
| 13C-1,2,3,4-TCDD        | 112485200 | 0.78 y | 20:05 | -    | 67.358              | -      | -     | n |
| 13C-2,3,7,8-TCDF        | 138098000 | 0.78 y | 19:29 | 1.23 | 3994.652            | 4.041  | 99.9  | n |
| 2,3,7,8-TCDF            | 13824340  | 0.79 y | 19:30 | 0.99 | 402.630 /           | 1.544  | -     | n |
| Total TCDF              | 14189580  | 0.72 y | 18:27 | 0.99 | <del>413.268</del>  | 1.544  | -     | n |
| 13C-2,3,7,8-TCDD        | 102281700 | 0.80 y | 20:18 | 0.91 | 4018.716            | 7.269  | 100.5 | n |
| 2,3,7,8-TCDD            | 10982170  | 0.78 y | 20:19 | 0.98 | 436.707 /           | 2.197  | -     | n |
| Total TCDD              | 10982170  | 0.78 y | 20:19 | 0.98 | <del>436.707</del>  | 2.197  | -     | n |
| 37Cl-2,3,7,8-TCDD       | 141162    | 1.00 y | 20:19 | 1.33 | 4.163               | 0.118  | 0.3   | n |
| 13C-1,2,3,7,8-PeCDF     | 104408500 | 1.57 y | 25:23 | 0.88 | 4238.105            | 8.662  | 106.0 | n |
| 1,2,3,7,8-PeCDF         | 60701800  | 1.54 y | 25:25 | 1.08 | 2160.016 /          | 6.373  | -     | n |
| 2,3,4,7,8-PeCDF         | 55951400  | 1.53 y | 26:59 | 1.05 | 2050.098 /          | 6.562  | -     | n |
| Total F2 PeCDF          | 118309290 | 1.60 y | 23:49 | 1.06 | <del>4269.906</del> | 6.466  | -     | n |
| Total F1 PeCDF          | 96620     | 0.15 n | 16:03 | 1.06 | <del>3.488</del>    | 1.191  | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 71731100  | 1.60 y | 27:49 | 0.66 | 3859.987            | 2.079  | 96.5  | n |
| 1,2,3,7,8-PeCDD         | 38467800  | 1.48 y | 27:51 | 0.93 | 2317.885 /          | 7.171  | -     | n |
| Total PeCDD             | 38467800  | 1.48 y | 27:51 | 0.93 | <del>2317.885</del> | 7.171  | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 70116400  | 1.29 y | 33:26 | -    | 59.220              | -      | -     | n |
| 13C-1,2,3,4,7,8-HxCDF   | 65272400  | 0.50 y | 32:20 | 1.04 | 3564.039            | 4.416  | 89.1  | n |
| 1,2,3,4,7,8-HxCDF       | 43702600  | 1.18 y | 32:21 | 1.22 | 2200.202 /          | 1.151  | -     | n |
| 1,2,3,6,7,8-HxCDF       | 48089000  | 1.21 y | 32:27 | 1.28 | 2299.392 /          | 1.094  | -     | n |
| 2,3,4,6,7,8-HxCDF       | 45317400  | 1.22 y | 32:58 | 1.23 | 2251.570 /          | 1.136  | -     | n |
| 1,2,3,7,8,9-HxCDF       | 38667400  | 1.22 y | 33:36 | 1.10 | 2157.782 /          | 1.276  | -     | n |
| Total HxCDF             | 175994258 | 1.13 y | 31:20 | 1.21 | <del>8920.002</del> | 1.161  | -     | n |
| 13C-1,2,3,6,7,8-HxCDD   | 56596400  | 1.29 y | 33:09 | 0.83 | 3886.310            | 2.509  | 97.2  | n |
| 1,2,3,4,7,8-HxCDD       | 30409600  | 1.25 y | 33:06 | 1.04 | 2072.168 /          | 1.491  | -     | y |
| 1,2,3,6,7,8-HxCDD       | 36071100  | 1.28 y | 33:10 | 1.16 | 2192.443 /          | 1.330  | -     | y |
| 1,2,3,7,8,9-HxCDD       | 37008100  | 1.27 y | 33:26 | 1.18 | 2213.369 /          | 1.308  | -     | n |
| Total HxCDD             | 103488800 | 1.25 y | 33:06 | 1.13 | <del>6477.980</del> | 1.372  | -     | y |
| 13C-1,2,3,4,6,7,8-HpCDF | 56857900  | 0.44 y | 34:57 | 0.91 | 3564.340            | 17.116 | 89.1  | n |
| 1,2,3,4,6,7,8-HpCDF     | 44393700  | 1.04 y | 34:58 | 1.35 | 2320.695 /          | 6.100  | -     | n |
| 1,2,3,4,7,8,9-HpCDF     | 35987200  | 1.04 y | 36:08 | 1.09 | 2315.381 /          | 7.508  | -     | n |
| Total HpCDF             | 80938498  | 1.04 y | 34:58 | 1.22 | <del>4668.240</del> | 6.731  | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDD | 52590900  | 1.06 y | 35:47 | 0.83 | 3629.548 /          | 9.453  | 90.7  | n |
| 1,2,3,4,6,7,8-HpCDD     | 30298000  | 1.03 y | 35:47 | 1.07 | 2150.263 /          | 6.183  | -     | n |
| Total HpCDD             | 30603403  | 0.85 n | 35:12 | 1.07 | <del>2171.938</del> | 6.183  | -     | n |
| 13C-OCDD                | 71813800  | 0.87 y | 38:21 | 0.62 | 6608.880            | 9.193  | 82.6  | n |

|      |          |      |   |       |      |            |       |   |   |
|------|----------|------|---|-------|------|------------|-------|---|---|
| OCDF | 53456700 | 0.89 | y | 38:29 | 1.37 | 4345.797 / | 8.642 | - | n |
| OCDD | 46819000 | 0.90 | y | 38:21 | 1.20 | 4348.806 / | 9.156 | - | n |



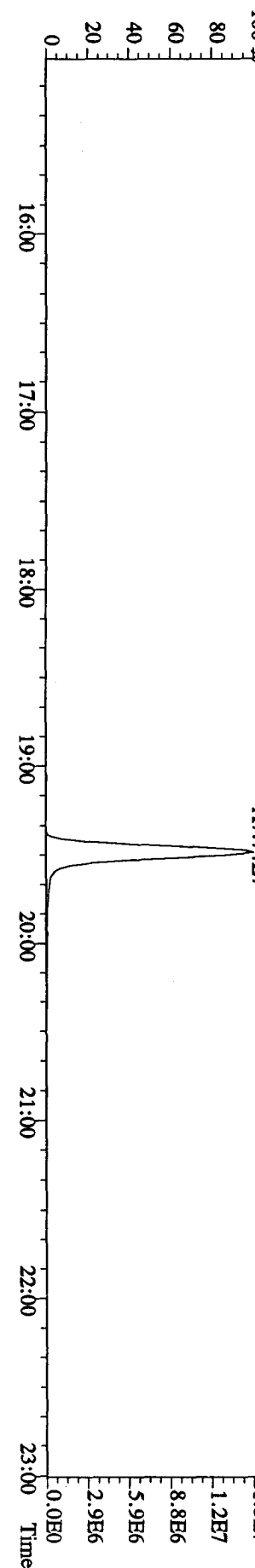
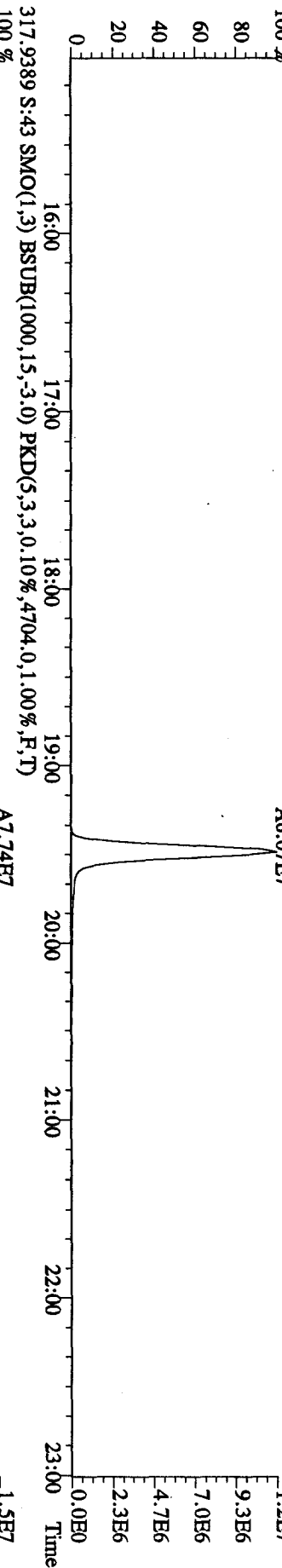
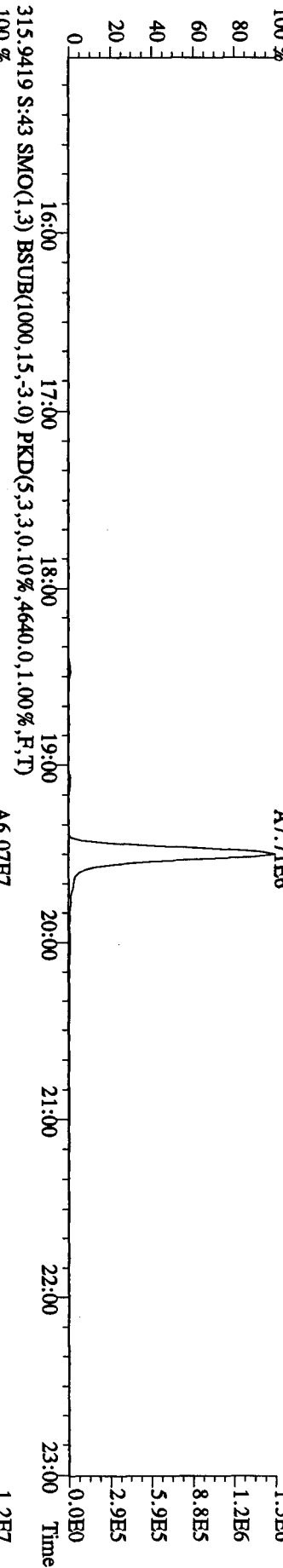
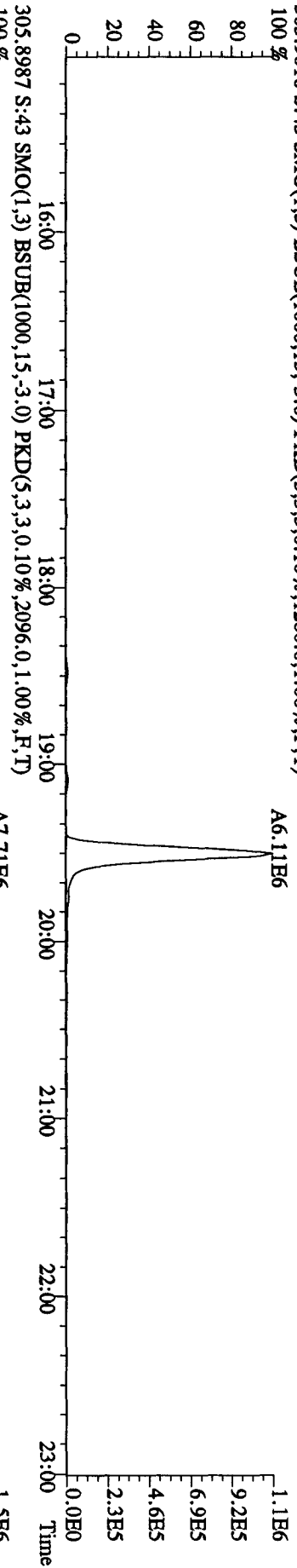
Run text: L79L2-1-AC Sample text: L79L2-1-AC :G0J090500-7LCS  
 Run #12 Filename: 14OC104D5 S: 43 I: 1 Results: 14OC104D5TO9  
 Acquired: 15-OCT-10 17:17:34 Processed: 15-OCT-10 18:11:21  
 Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

| Name                    | Resp      | RA     | RT    | RRF  | Conc     | EDL    | Rec   | M |
|-------------------------|-----------|--------|-------|------|----------|--------|-------|---|
| 13C-1,2,3,4-TCDD        | 112485200 | 0.78 y | 20:05 | -    | 67.358   | -      | -     | n |
| 13C-2,3,7,8-TCDF        | 138098000 | 0.78 y | 19:29 | 1.23 | 3994.652 | 4.041  | 99.9  | n |
| 2,3,7,8-TCDF            | 13824340  | 0.79 y | 19:30 | 0.99 | 402.630  | 1.544  | -     | n |
| Total TCDF              | 14189580  | 0.72 y | 18:27 | 0.99 | 413.268  | 1.544  | -     | n |
| 13C-2,3,7,8-TCDD        | 102281700 | 0.80 y | 20:18 | 0.91 | 4018.716 | 7.269  | 100.5 | n |
| 2,3,7,8-TCDD            | 10982170  | 0.78 y | 20:19 | 0.98 | 436.707  | 2.197  | -     | n |
| Total TCDD              | 10982170  | 0.78 y | 20:19 | 0.98 | 436.707  | 2.197  | -     | n |
| 37Cl-2,3,7,8-TCDD       | 141162    | 1.00 y | 20:19 | 1.33 | 4.163    | 0.118  | 0.3   | n |
| 13C-1,2,3,7,8-PeCDF     | 104408500 | 1.57 y | 25:23 | 0.88 | 4238.105 | 8.662  | 106.0 | n |
| 1,2,3,7,8-PeCDF         | 60701800  | 1.54 y | 25:25 | 1.08 | 2160.016 | 6.373  | -     | n |
| 2,3,4,7,8-PeCDF         | 55951400  | 1.53 y | 26:59 | 1.05 | 2050.098 | 6.562  | -     | n |
| Total F2 PeCDF          | 118309290 | 1.60 y | 23:49 | 1.06 | 4269.906 | 6.466  | -     | n |
| Total F1 PeCDF          | 96620     | 0.15 n | 16:03 | 1.06 | 3.488    | 1.191  | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 71731100  | 1.60 y | 27:49 | 0.66 | 3859.987 | 2.079  | 96.5  | n |
| 1,2,3,7,8-PeCDD         | 38467800  | 1.48 y | 27:51 | 0.93 | 2317.885 | 7.171  | -     | n |
| Total PeCDD             | 38467800  | 1.48 y | 27:51 | 0.93 | 2317.885 | 7.171  | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 70116400  | 1.29 y | 33:26 | -    | 59.220   | -      | -     | n |
| 13C-1,2,3,4,7,8-HxCDF   | 65272400  | 0.50 y | 32:20 | 1.04 | 3564.039 | 4.416  | 89.1  | n |
| 1,2,3,4,7,8-HxCDF       | 43702600  | 1.18 y | 32:21 | 1.22 | 2200.202 | 1.151  | -     | n |
| 1,2,3,6,7,8-HxCDF       | 48089000  | 1.21 y | 32:27 | 1.28 | 2299.392 | 1.094  | -     | n |
| 2,3,4,6,7,8-HxCDF       | 45317400  | 1.22 y | 32:58 | 1.23 | 2251.570 | 1.136  | -     | n |
| 1,2,3,7,8,9-HxCDF       | 38667400  | 1.22 y | 33:36 | 1.10 | 2157.782 | 1.276  | -     | n |
| Total HxCDF             | 175994258 | 1.13 y | 31:20 | 1.21 | 8920.002 | 1.161  | -     | n |
| 13C-1,2,3,6,7,8-HxCDD   | 56596400  | 1.29 y | 33:09 | 0.83 | 3886.310 | 2.509  | 97.2  | n |
| 1,2,3,4,7,8-HxCDD       | 27803104  | 1.46 n | 33:06 | 1.04 | 1894.556 | 1.491  | -     | n |
| 1,2,3,6,7,8-HxCDD       | 35832900  | 1.12 y | 33:10 | 1.16 | 2177.965 | 1.330  | -     | n |
| 1,2,3,7,8,9-HxCDD       | 37008100  | 1.27 y | 33:26 | 1.18 | 2213.369 | 1.308  | -     | n |
| Total HxCDD             | 100644104 | 1.46 n | 33:06 | 1.13 | 6285.891 | 1.372  | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDF | 56857900  | 0.44 y | 34:57 | 0.91 | 3564.340 | 17.116 | 89.1  | n |
| 1,2,3,4,6,7,8-HpCDF     | 44393700  | 1.04 y | 34:58 | 1.35 | 2320.695 | 6.100  | -     | n |
| 1,2,3,4,7,8,9-HpCDF     | 35987200  | 1.04 y | 36:08 | 1.09 | 2315.381 | 7.508  | -     | n |
| Total HpCDF             | 80938498  | 1.04 y | 34:58 | 1.22 | 4668.240 | 6.731  | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDD | 52590900  | 1.06 y | 35:47 | 0.83 | 3629.548 | 9.453  | 90.7  | n |
| 1,2,3,4,6,7,8-HpCDD     | 30298000  | 1.03 y | 35:47 | 1.07 | 2150.263 | 6.183  | -     | n |
| Total HpCDD             | 30603403  | 0.85 n | 35:12 | 1.07 | 2171.938 | 6.183  | -     | n |
| 13C-OCDD                | 71813800  | 0.87 y | 38:21 | 0.62 | 6608.880 | 9.193  | 82.6  | n |
| OCDF                    | 53456700  | 0.89 y | 38:29 | 1.37 | 4345.797 | 8.642  | -     | n |
| OCDD                    | 46819000  | 0.90 y | 38:21 | 1.20 | 4348.806 | 9.156  | -     | n |

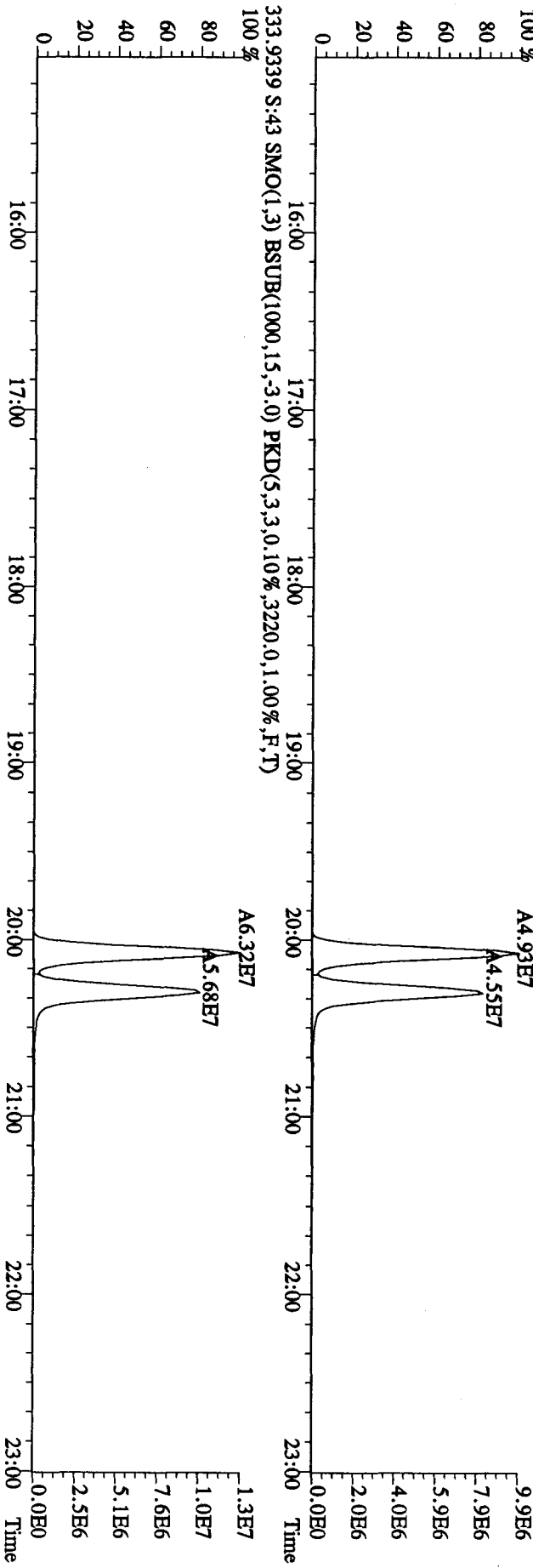
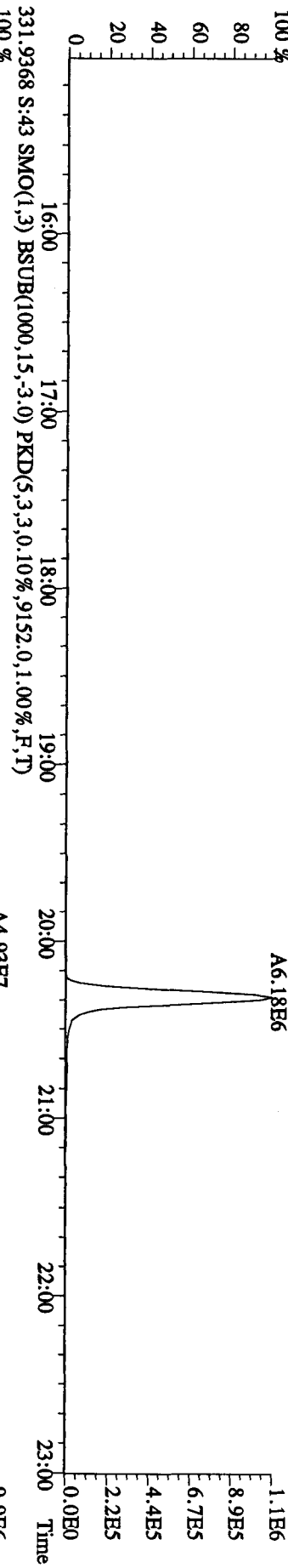
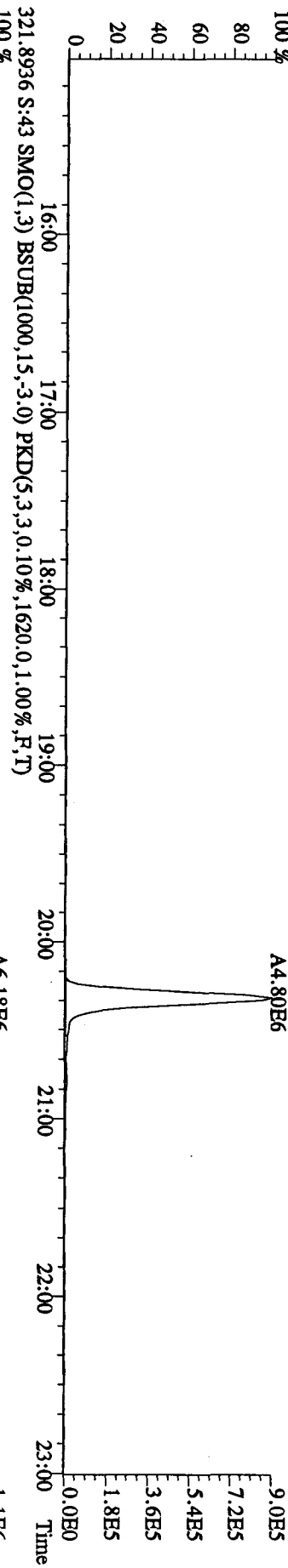
File:14OC104D5 #1-530 Acq:15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-UltimaB

Sample#43 Text:L79L2-1-AC :G0J090500-7LCS Exp:DIOXINRES

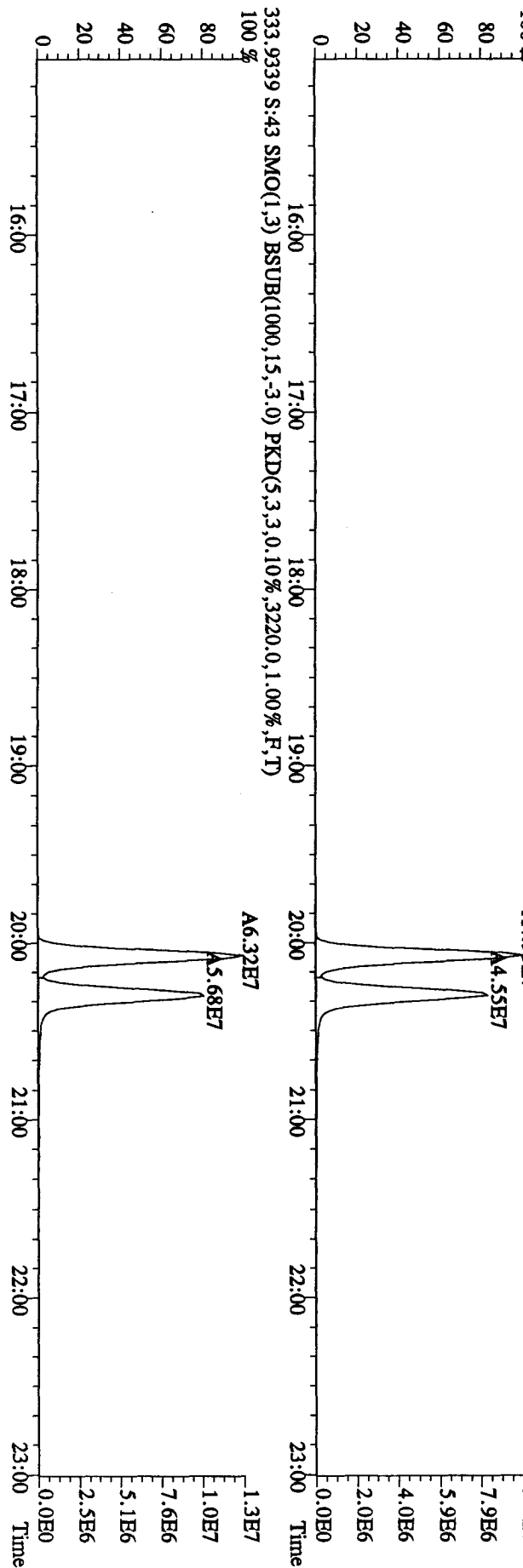
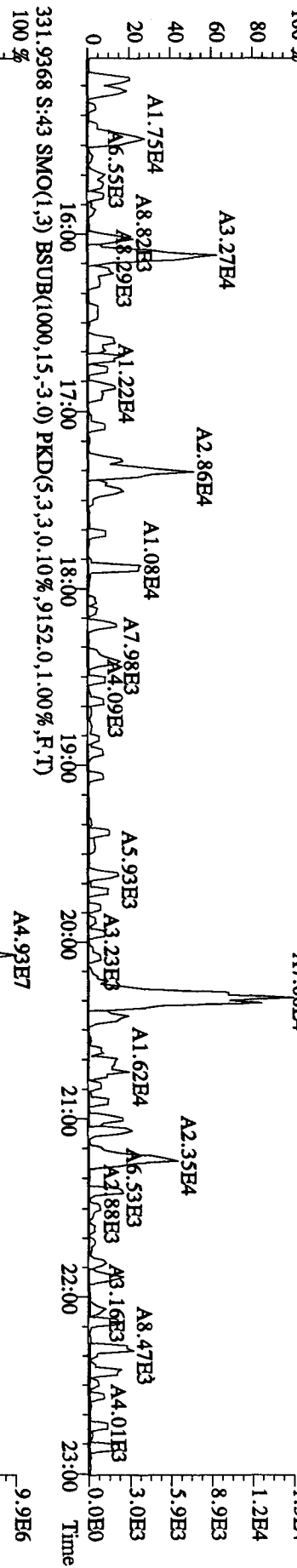
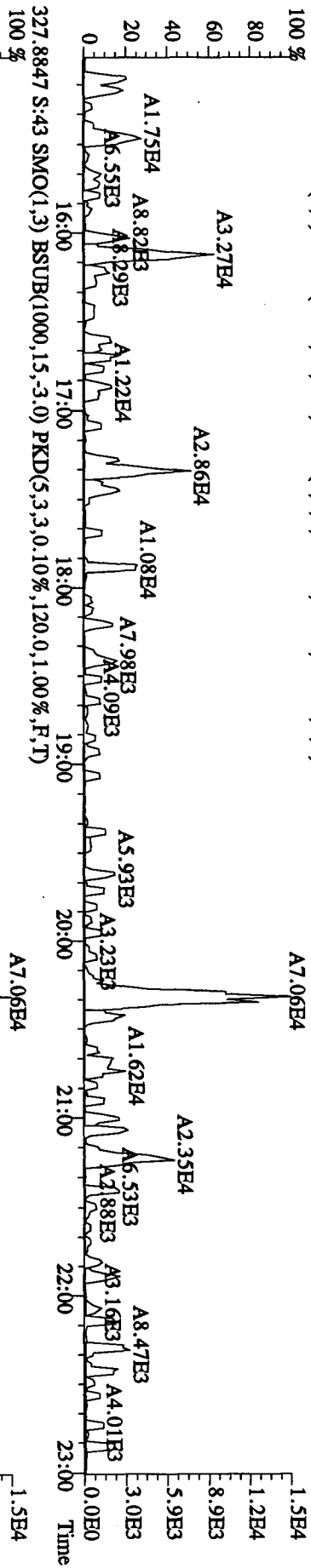
303.9016 S:43 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1280.0,1.00%,F,T)



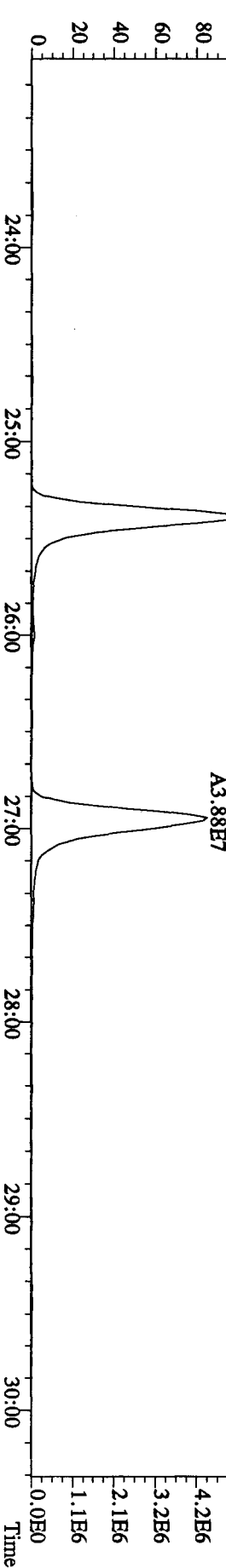
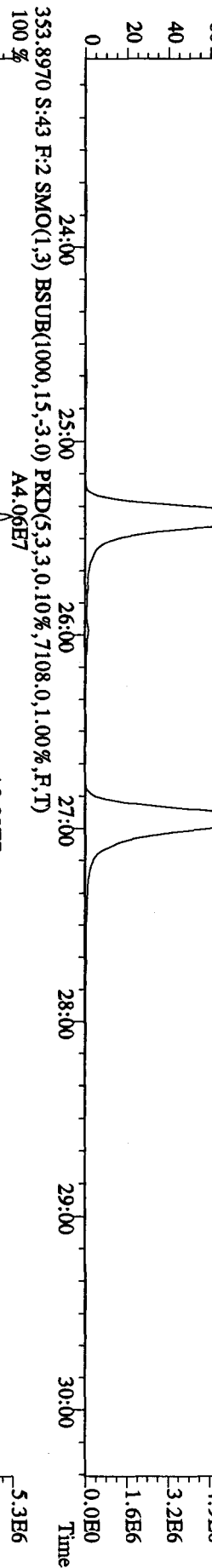
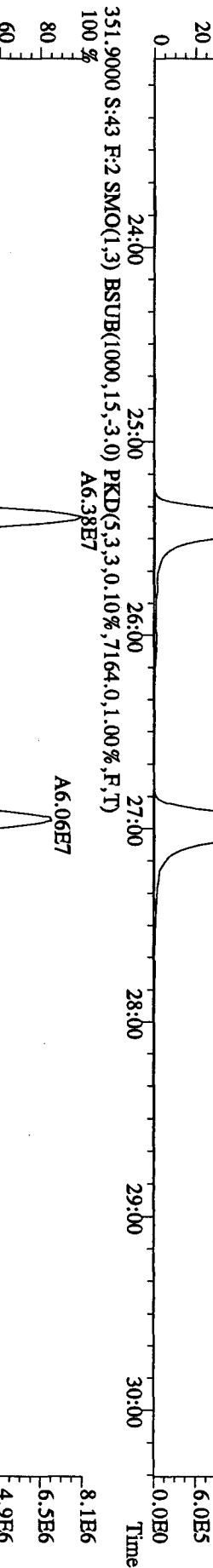
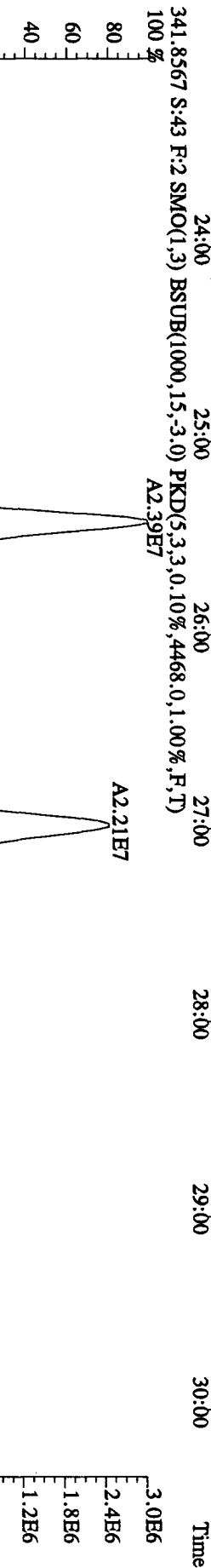
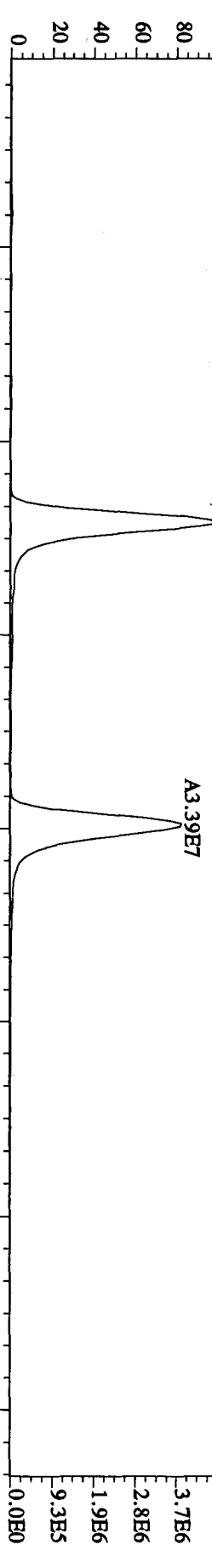
File: 140C104D5 #1-530 Acq: 15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#43 Text: L79L2-1-AC : G01090500-7LCS Exp: DIOXINRES  
 319.8965 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1696.0,1.00%,F,T)



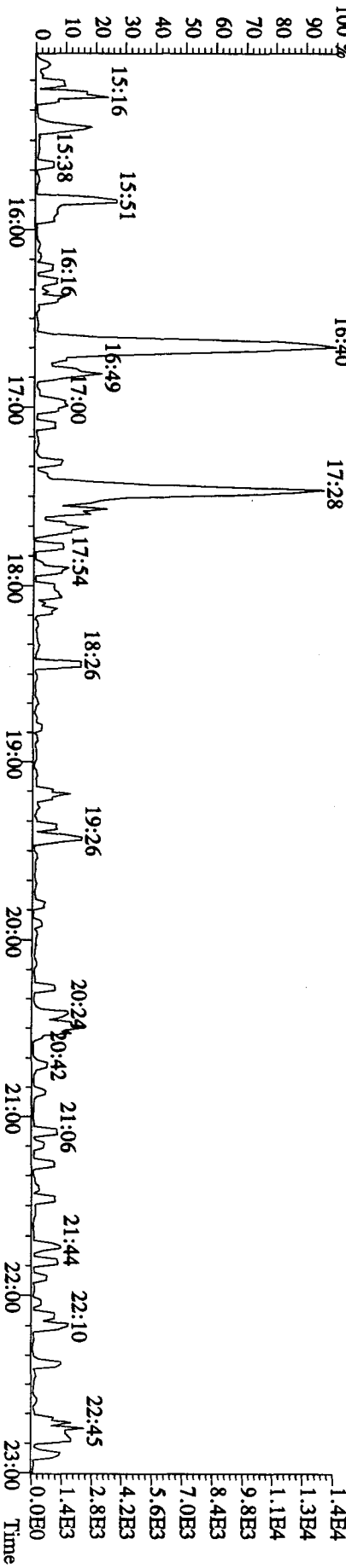
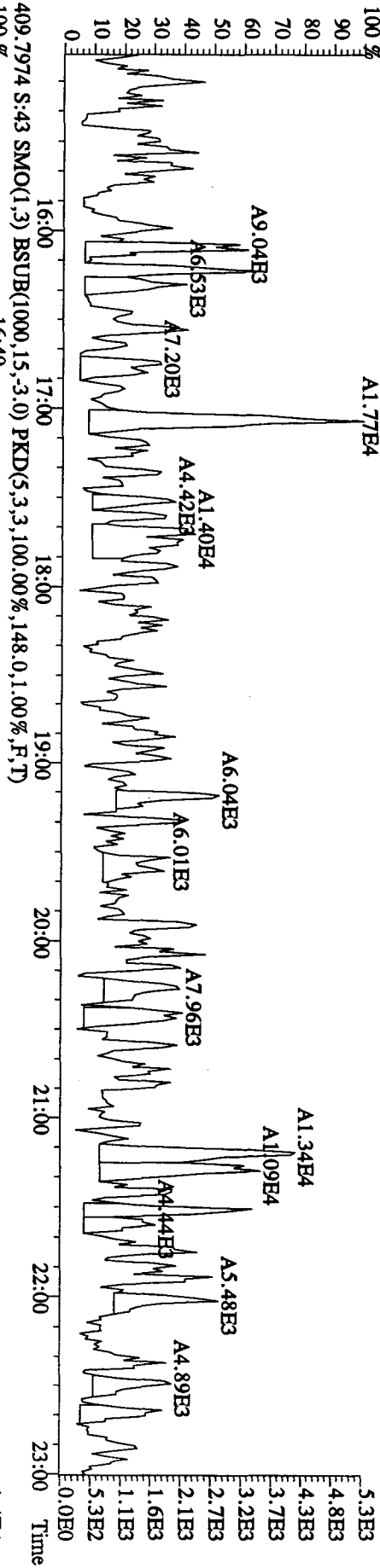
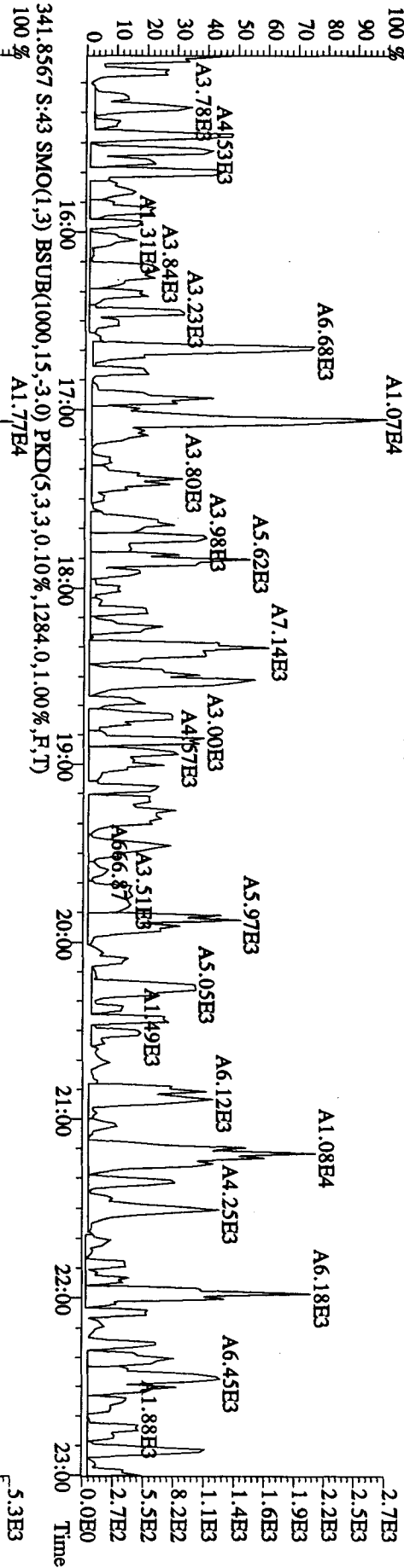
File:14OC104D5 #1-530 Acq:15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#43 Text:L79L2-1-AC :G01090500-7LCS Exp:DIOXINRES  
 327.8847 S:4:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,120.0,1.00%,F,T)  
 333.9339 S:4:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3220.0,1.00%,F,T)



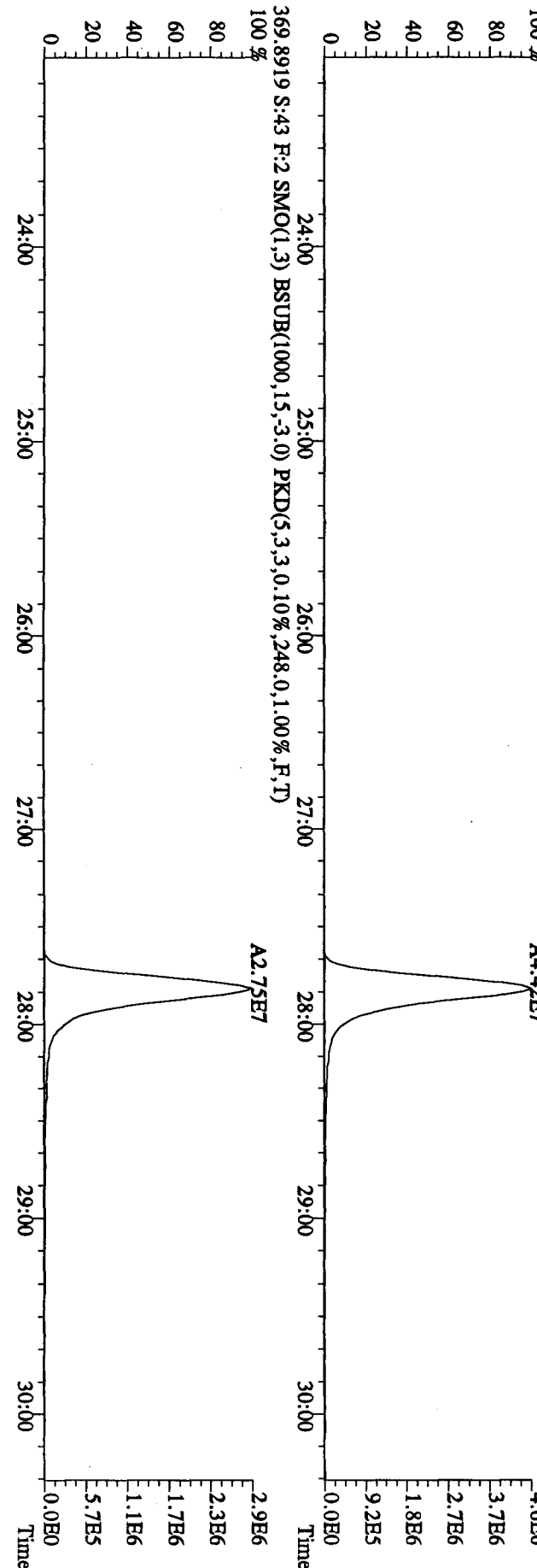
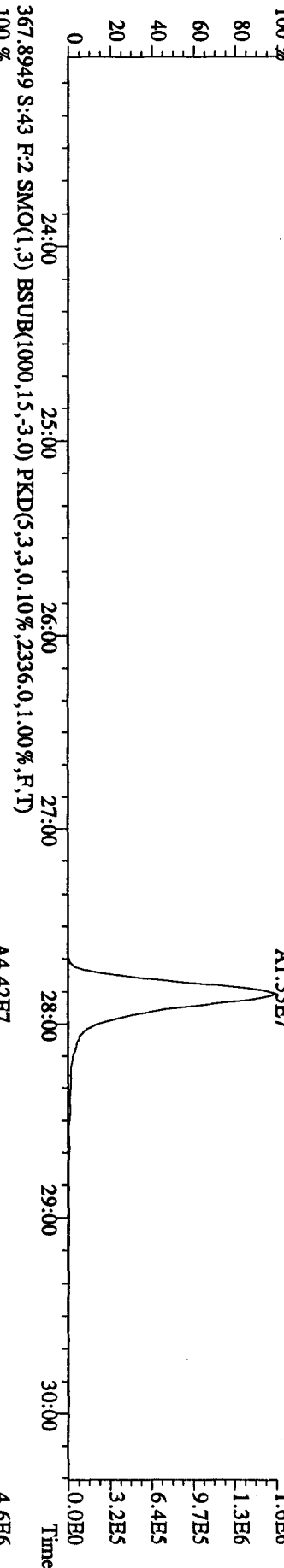
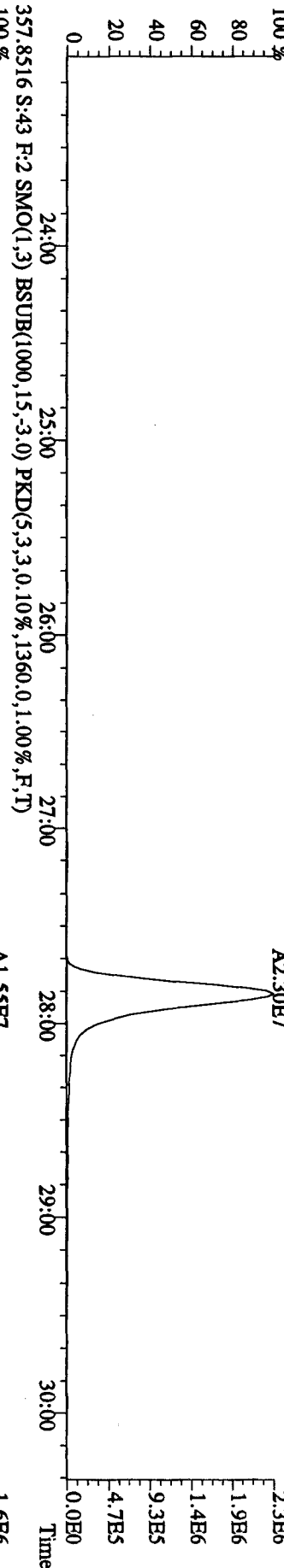
File: 140C104D5 #1-470 Acq: 15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#43 Text: L79L2-1-AC : G0J090500-7LCS Exp: DIOXINRES  
 339.8597 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3192.0,1.00%,F,T)  
 100% A3.68E7



File:140C104D5 #1-530 Acq:15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#43 Text:L79L2-1-AC :G01090500-7LCS Exp:DIOXINRES  
 339.8597 S:43 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,128.0,1.00%,F,T)  
 A1.07E4



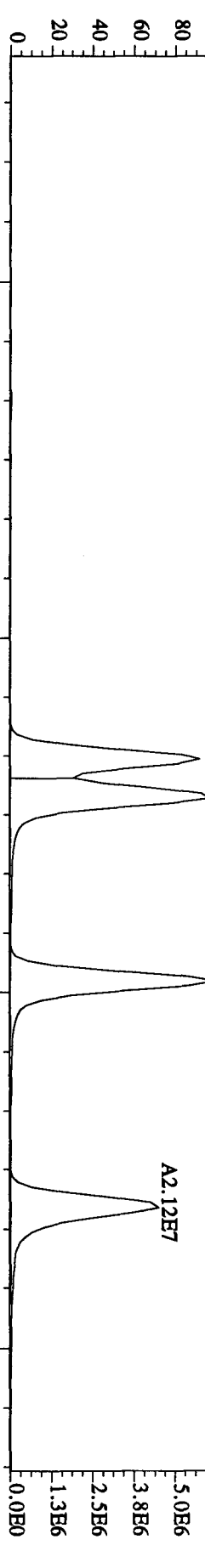
File:14OC104D5 #1-470 Acq:15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#43 Text:L79L2-1-AC :G01090500-7LCS Exp:DIOXINRES  
 355.8546 S:43 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2756,0,1,1.00%,F,T)  
 100 %



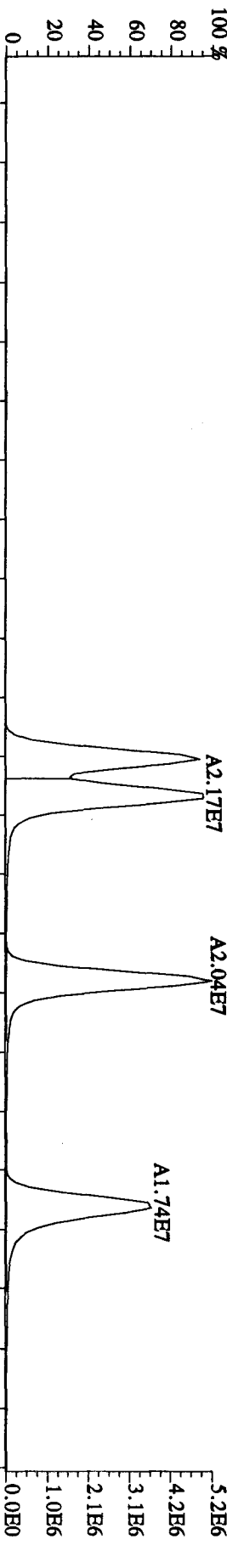
File:14OC104D5 #1-287 Acq:15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-UltimaB

Sample#43 Text:L79L2-1-AC :G01090500-7LCS Exp:DIOXINRES

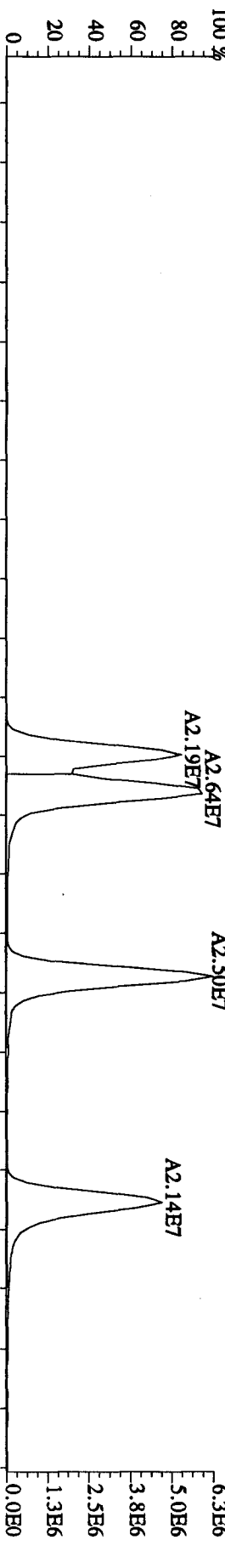
373.8208 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1076.0,1.00%,F,T)



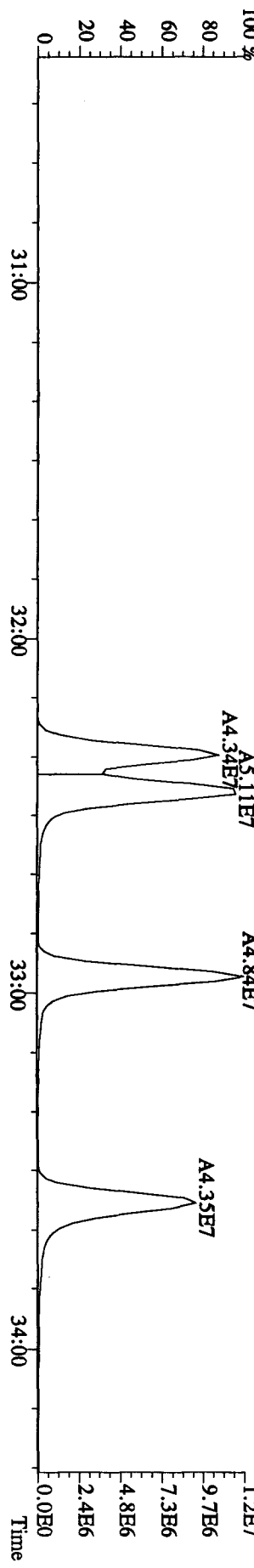
375.8178 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,784.0,1.00%,F,T)



383.8639 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3460.0,1.00%,F,T)



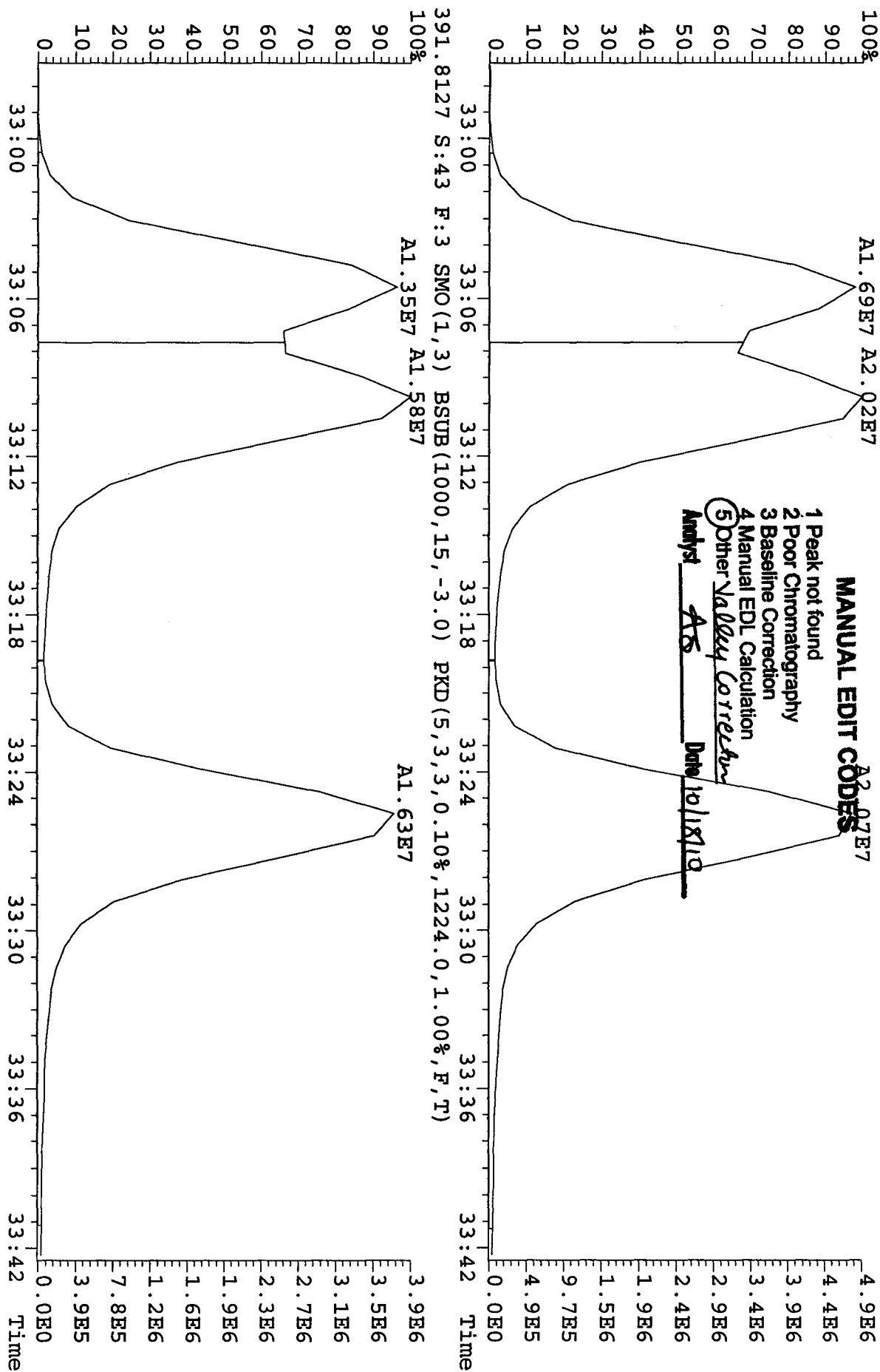
385.8610 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2596.0,1.00%,F,T)



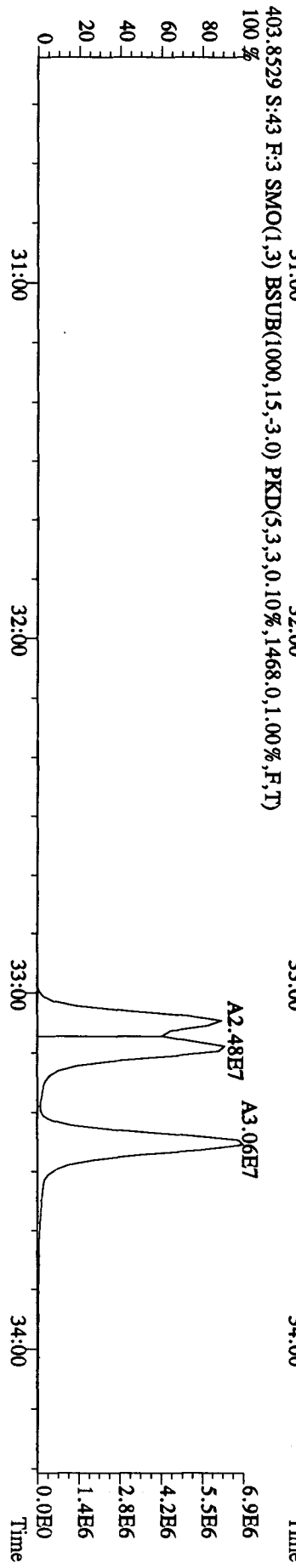
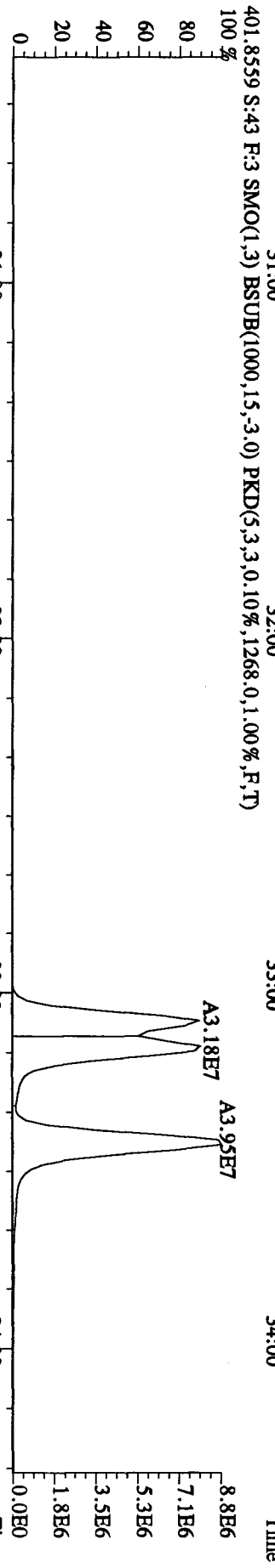
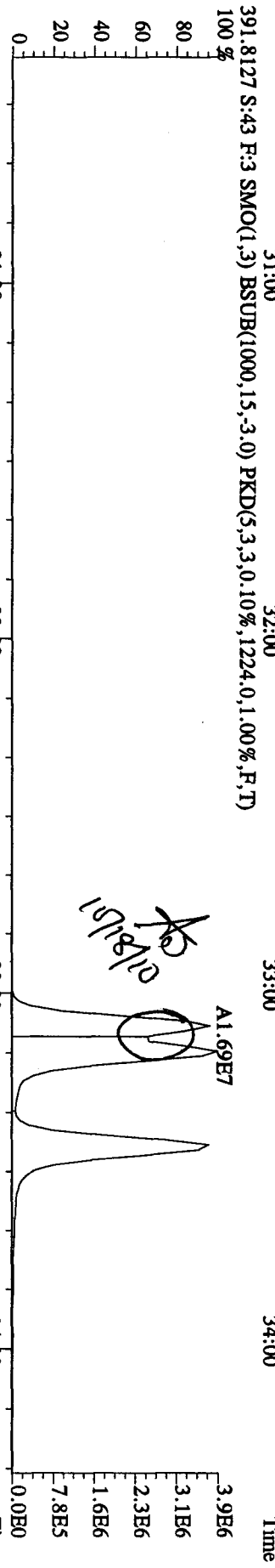
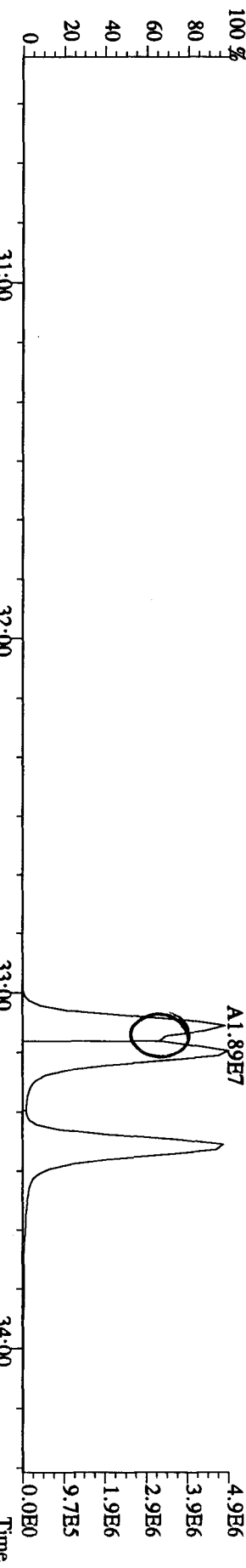


File: 14OC104D5 #1-287 Acq: 15-OCT-2010 17:17:34 GC FI+ Voltage SIR Autospec-Ultimate  
 Sample#43 Text: L79L2-1-AC : G0J090500-7LCS Exp: DIOXINRES  
 389.8157 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,612.0,1.00%,F,T)  
 100% A1.69E7 A2.02E7

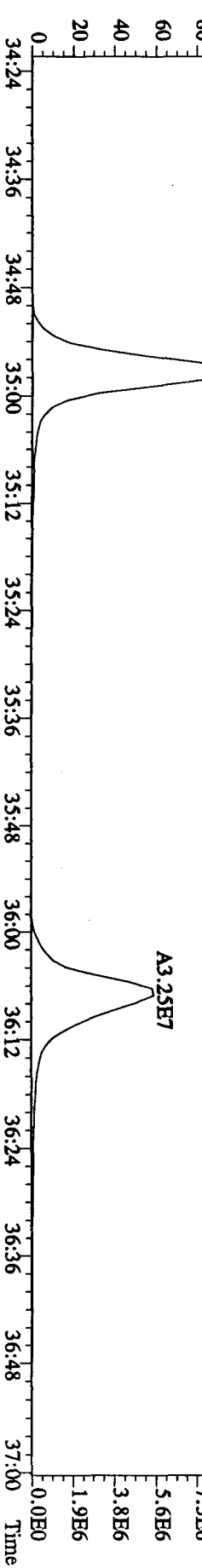
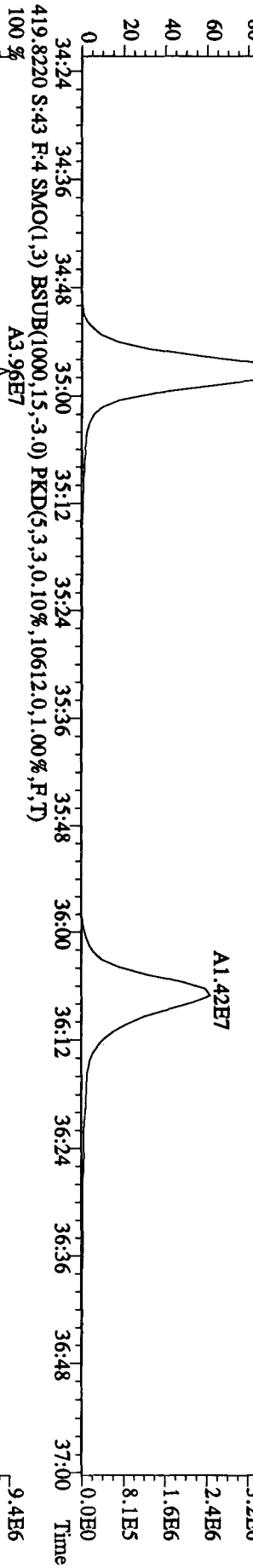
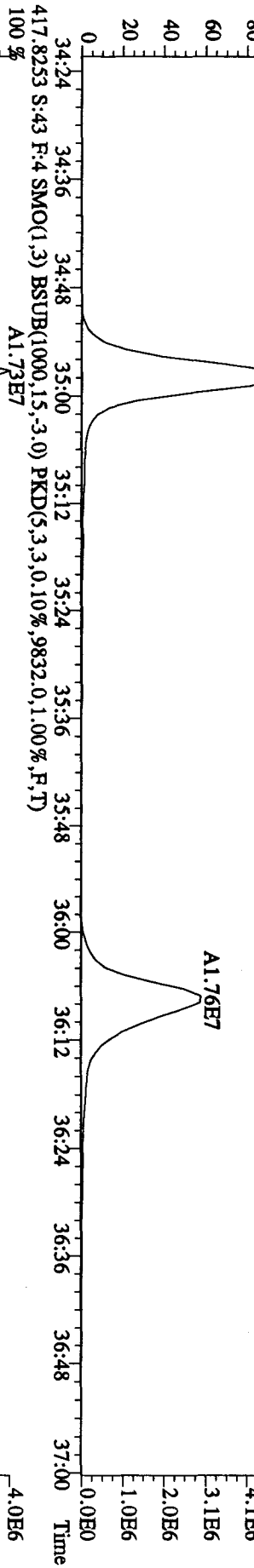
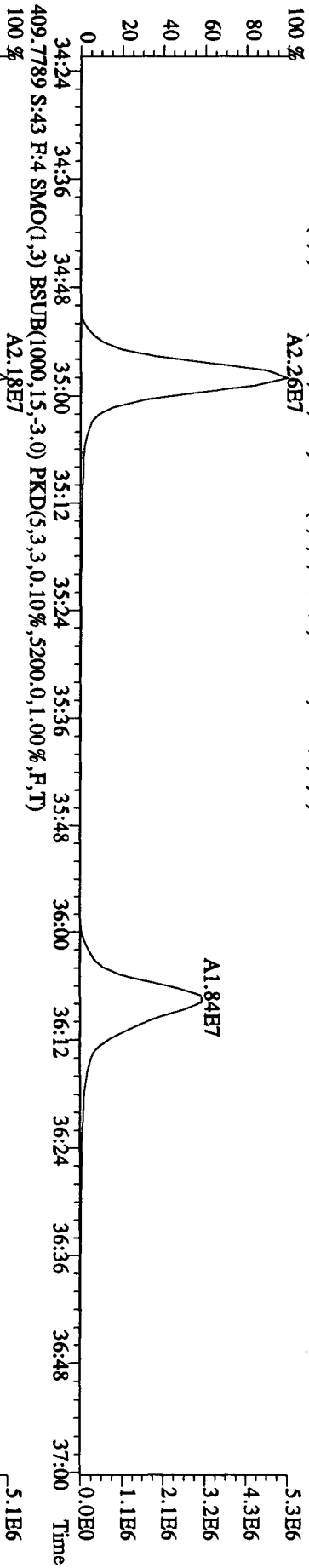
**MANUAL EDIT CODES**  
 1 Peak not found  
 2 Poor Chromatography  
 3 Baseline Correction  
 4 Manual EDL Calculation  
 5 Other Valley Correction  
 Analyst AS Date 10/18/10



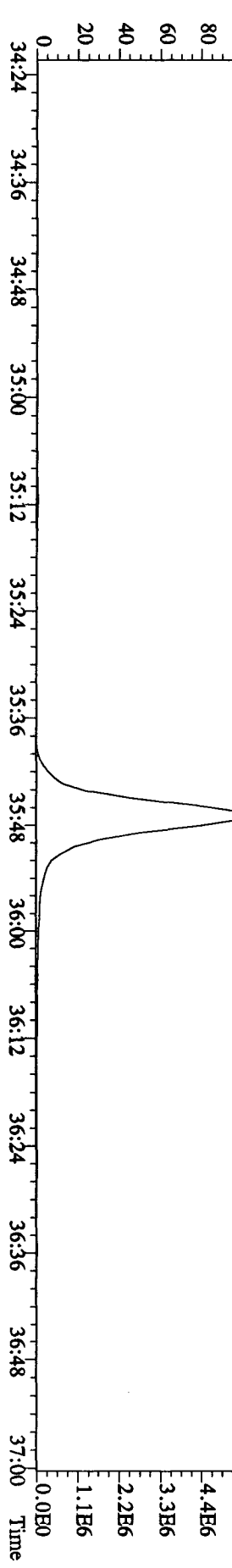
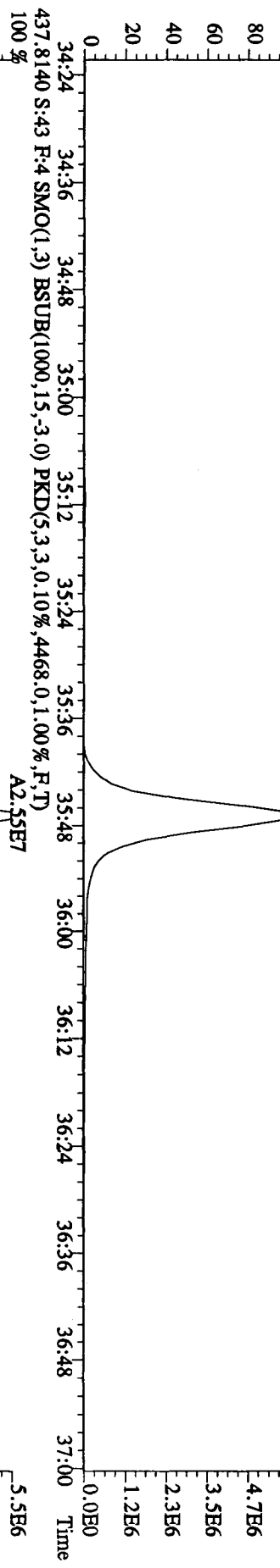
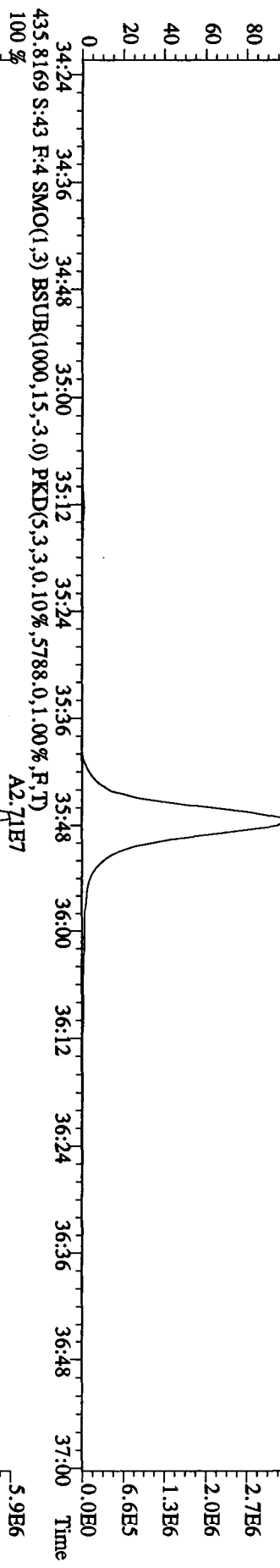
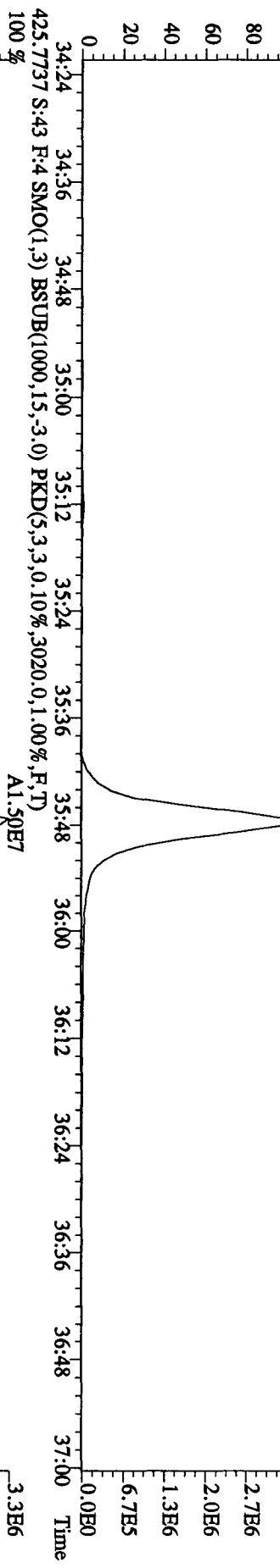
File: 14OC104D5 #1-287 Acq: 15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#43 Text: L79L2-1-AC :G0J090500-7LCS Exp: DIOXINRES  
 389.8157 S:43 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,612.0,1.00%,F,T)  
 100 %



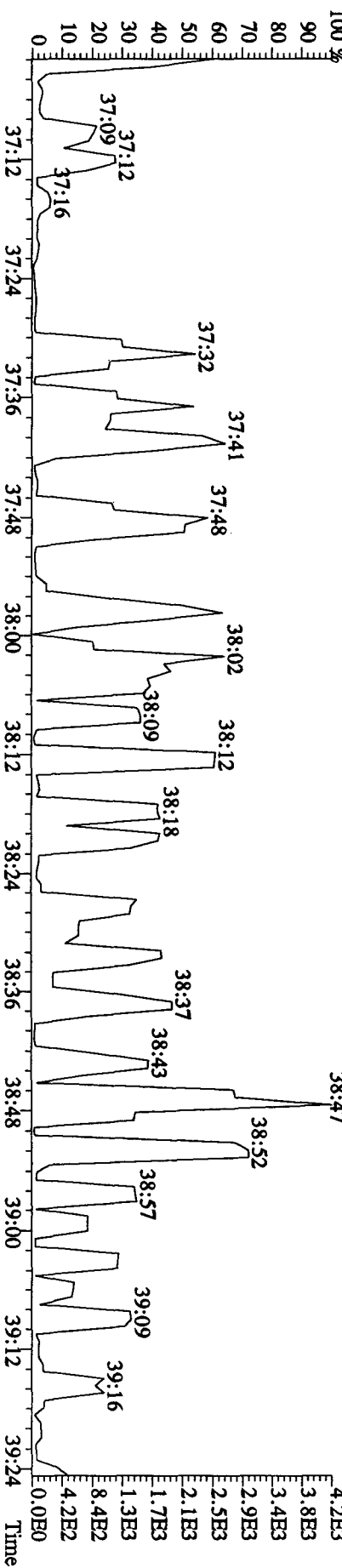
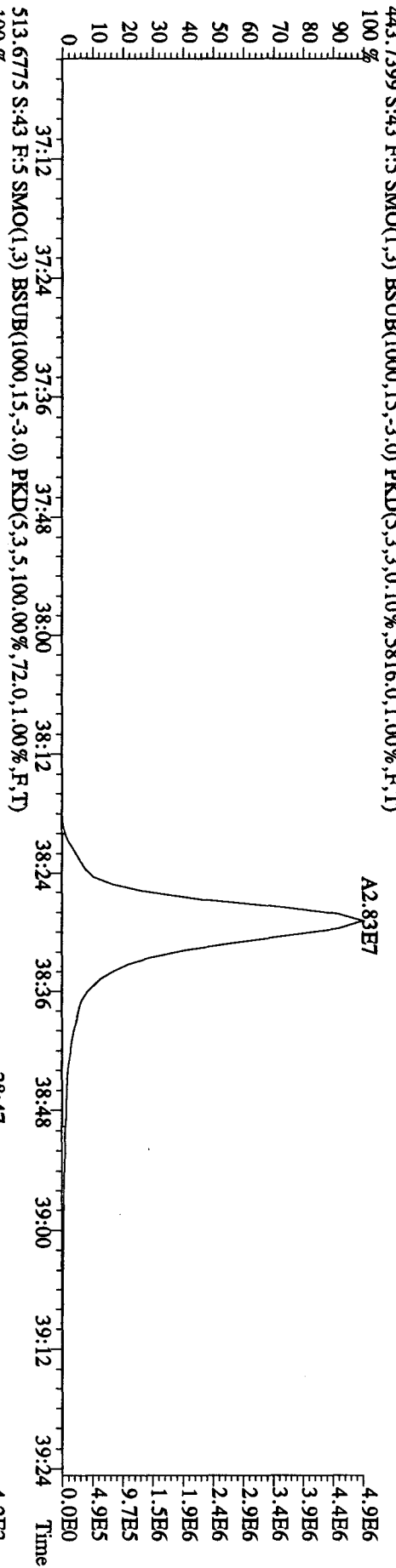
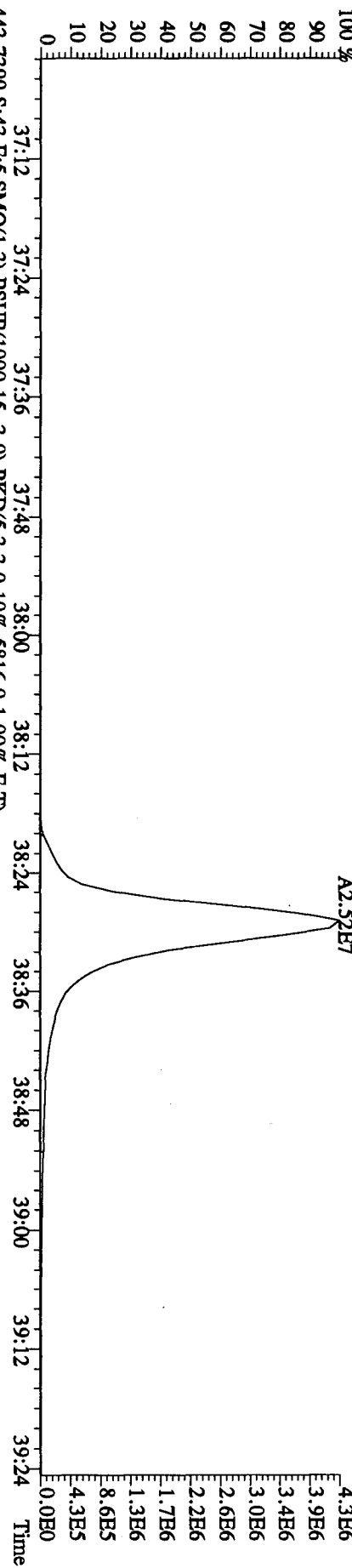
File:14OC104D5 #1-200 Acq:15-OCT-2010 17:17:34 GC HI + Voltage SIR Autospec-UltimaB  
Sample#43 Text:L79L2-1-AC :G0J090500-7LCS Exp:DIOXINRES  
407.7818 S:43 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3968,0.1,0.00%,F,T)  
100 % A2.26E7



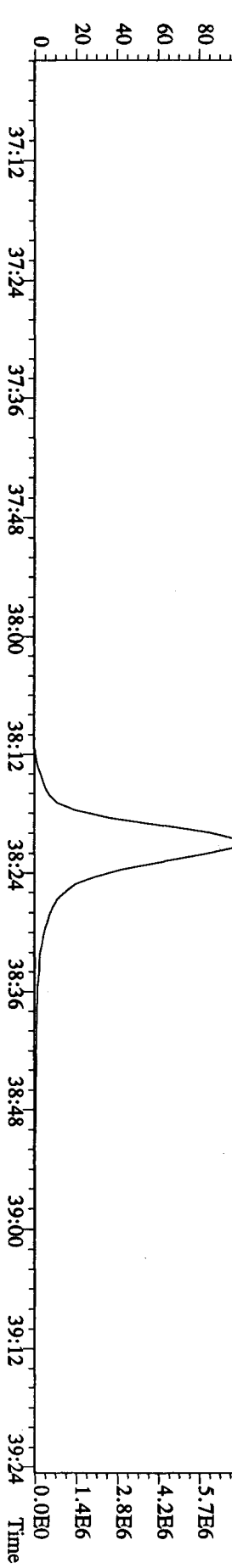
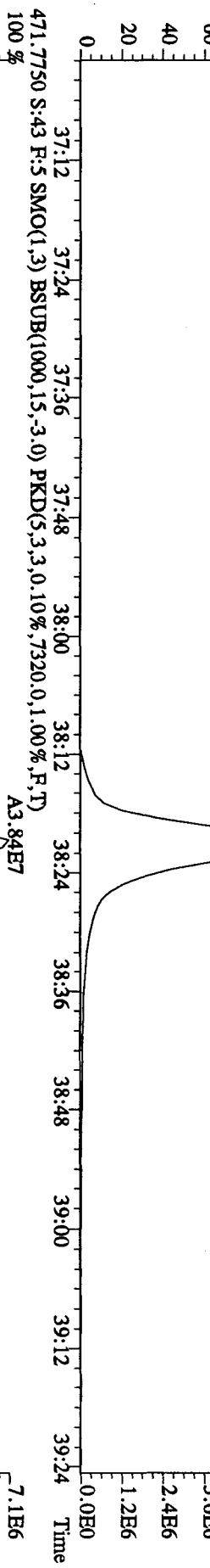
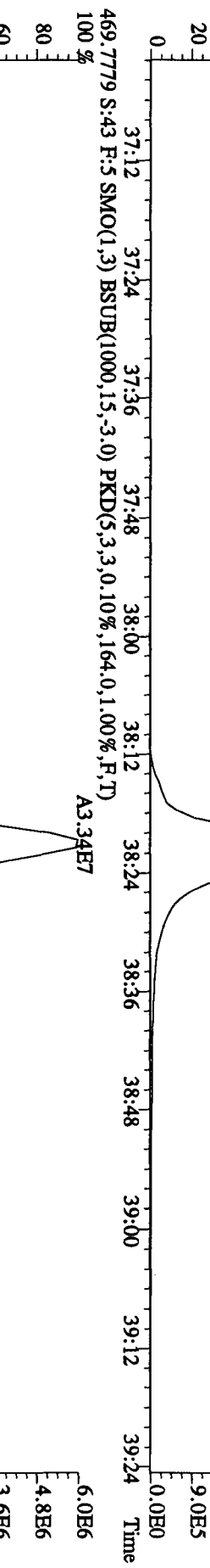
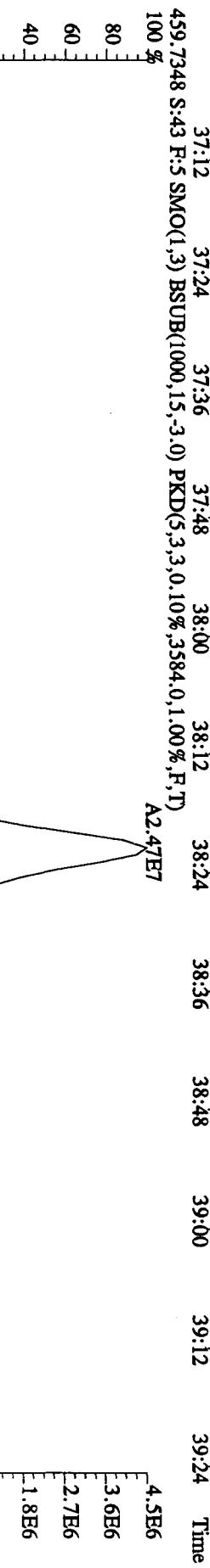
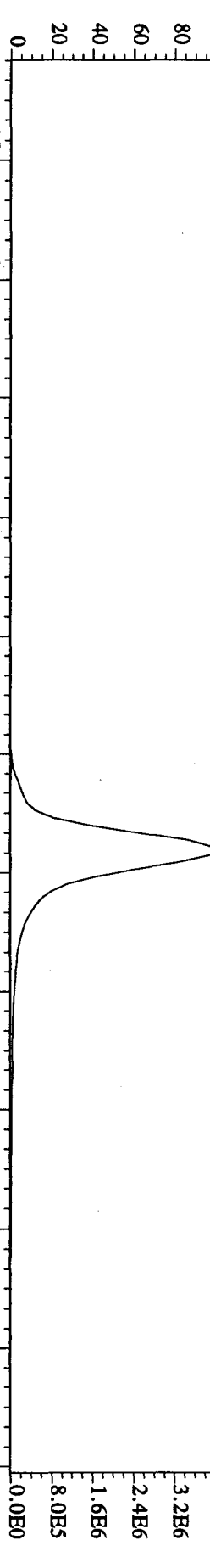
File: 14OC104D5 #1-200 Acq: 15-OCT-2010 17:17:34 GC EI + Voltage SIR Autospec-UltimaB  
 Sample#43 Text: L79L2-1-AC :G0J090500-7LCS Exp: DIOXINRES  
 423.7766 S:43 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3240,0,1,00%,F,T)  
 100% A1.53E7



File:14OC104D5 #1-193 Acq:15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#43 Text:L79L2-1-AC :G01090500-7LCS Exp:DIOXINRES  
 441.7428 S:43 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,624.0,1.00%,F,T)  
 100%

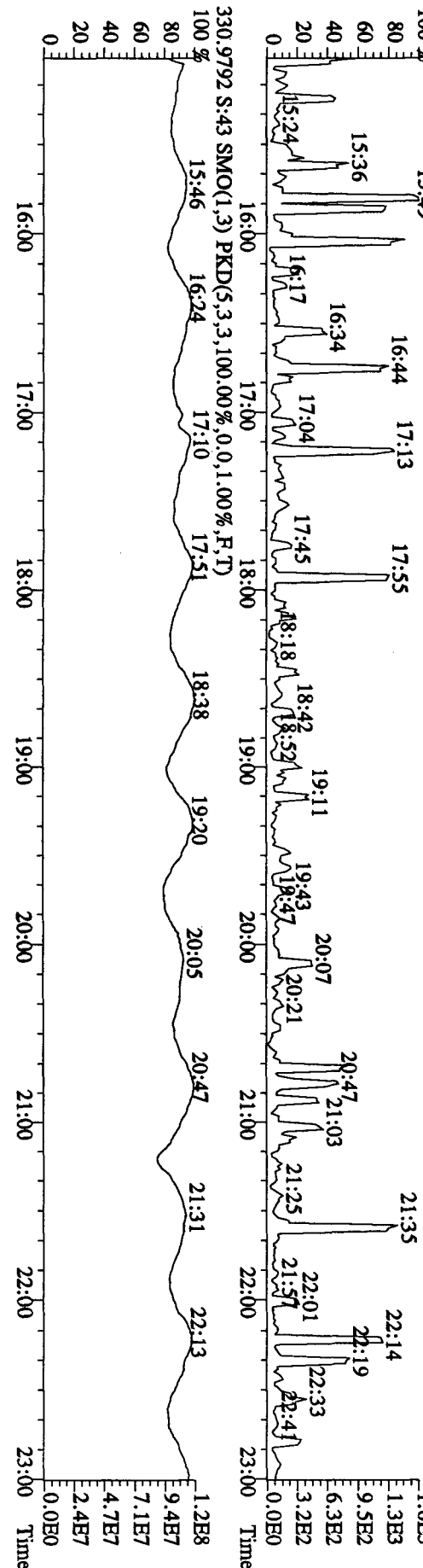
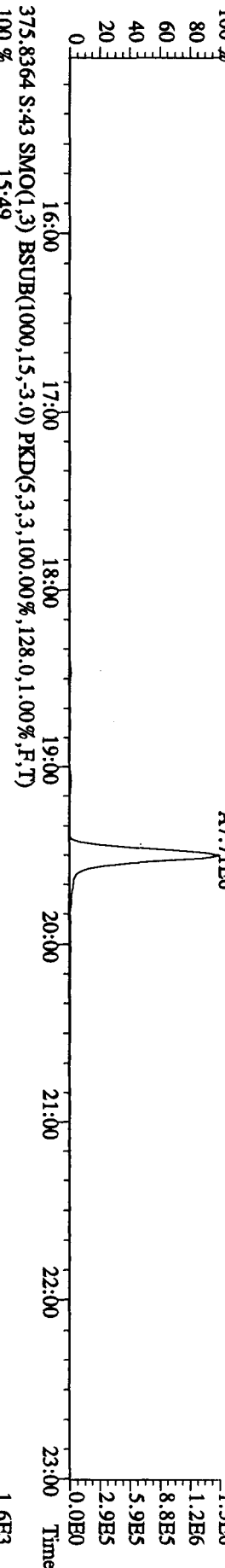
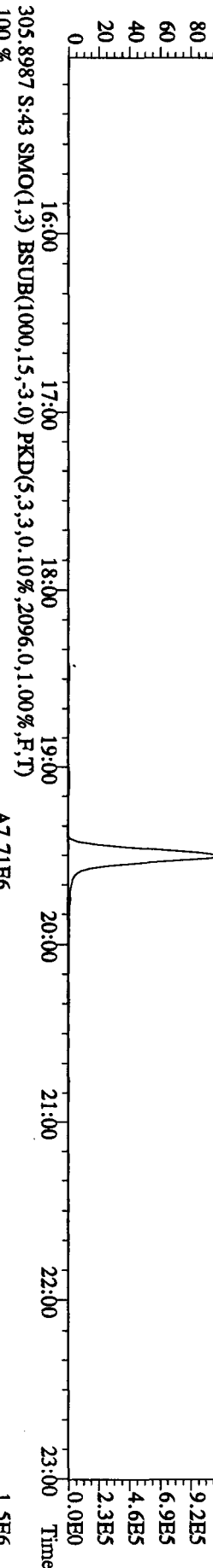
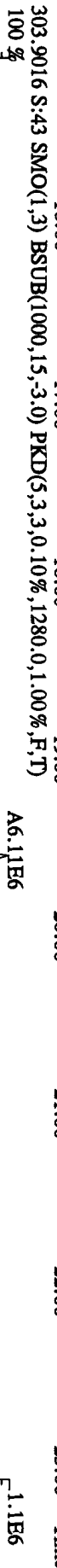
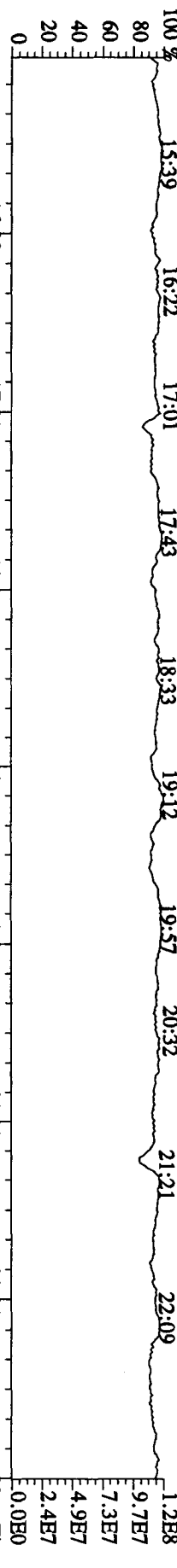


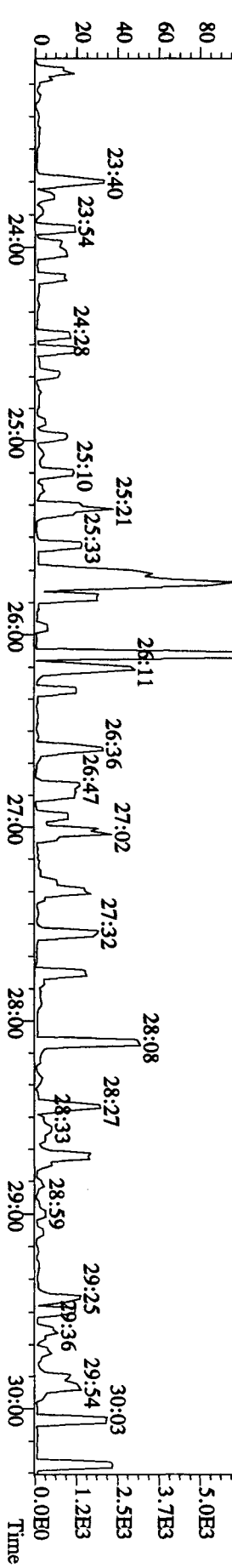
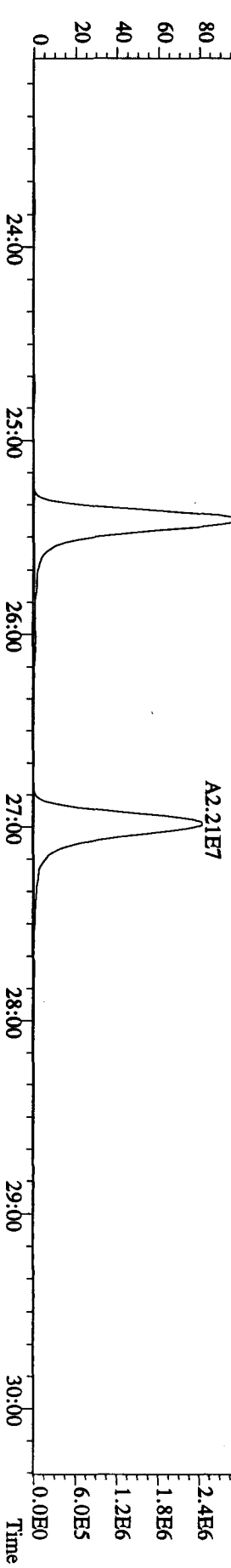
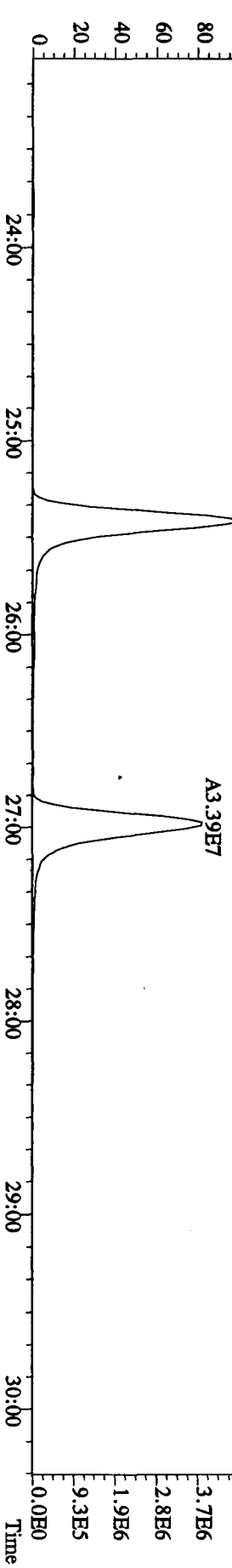
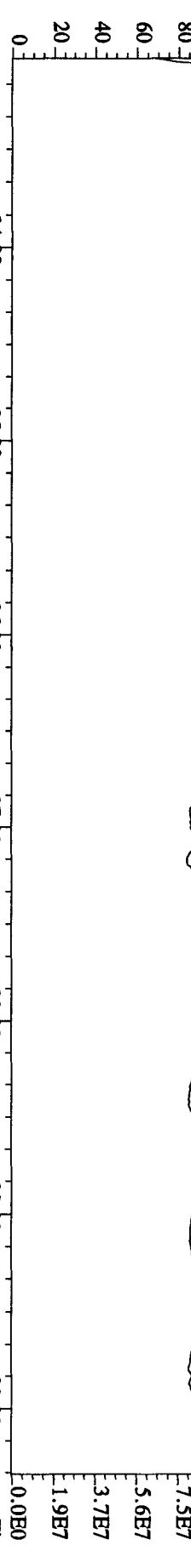
File:14OC104D5 #1-193 Acq:15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#43 Text:L79L2-1-AC :G0J090500-7LCS Exp:DIOXINRES  
 457.7377 S:43 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2388,0,1.00%,F,T)  
 100%



File: 14OC104D5 #1-530 Acq: 15-OCT-2010 17:17:34 GC EI + Voltage SIR Autospec-UltimaB

Sample#43 Text: L79L2-1-AC : G0J090500-7LCS Exp: DIOXINRES



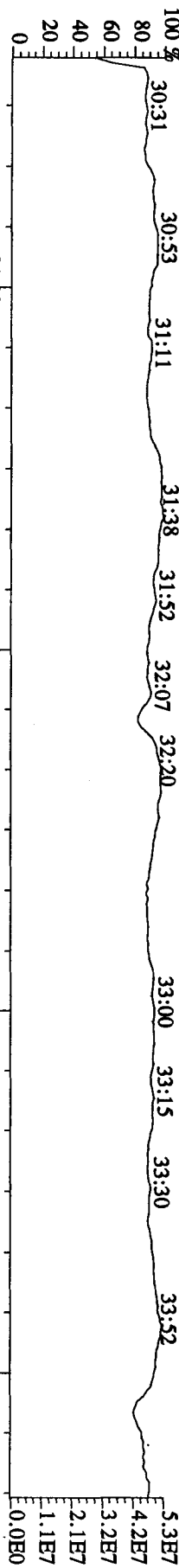




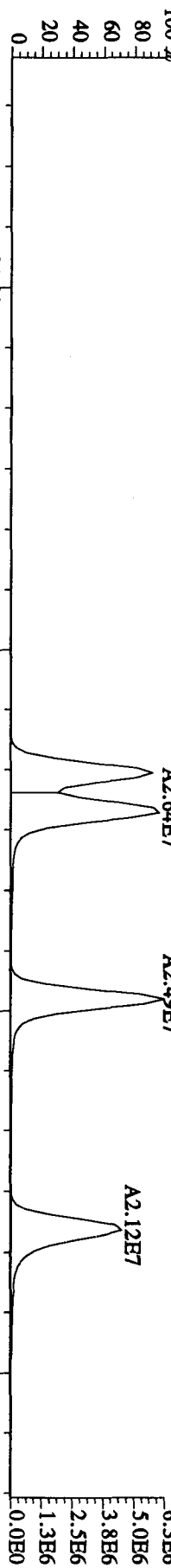
File: 14OC104D5 #1-287 Acq: 15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-Ultimate

Sample#43 Text: L79L2-1-AC :G01090500-7LCS Exp: DIOXINRES

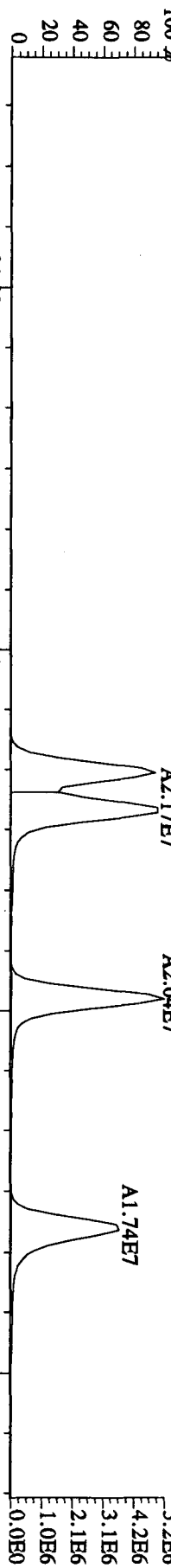
392.9760 S:43 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



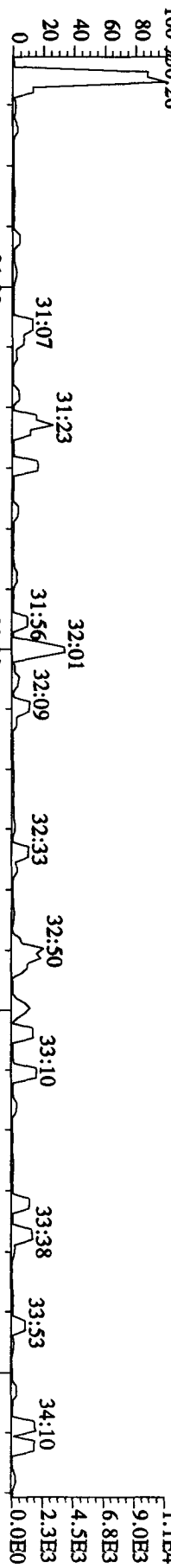
373.8208 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1076.0,1.00%,F,T)



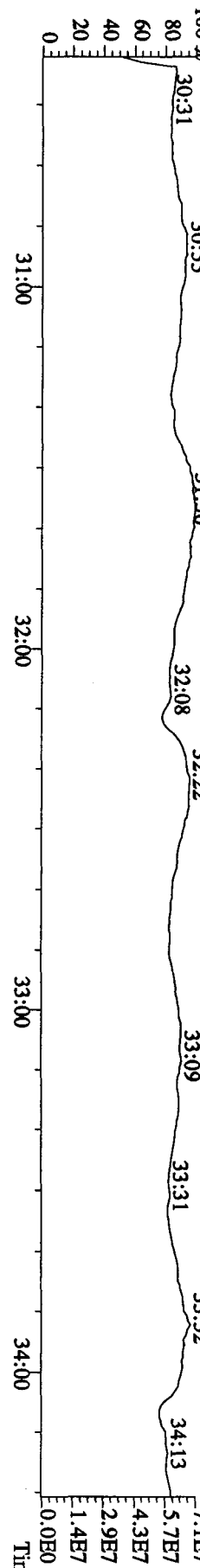
375.8178 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,784.0,1.00%,F,T)



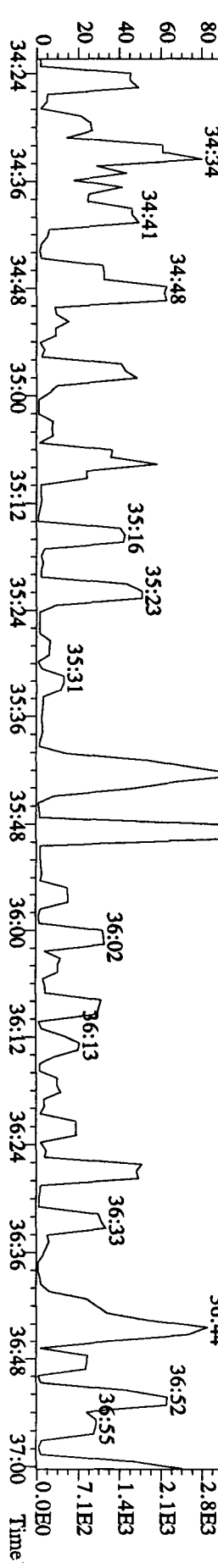
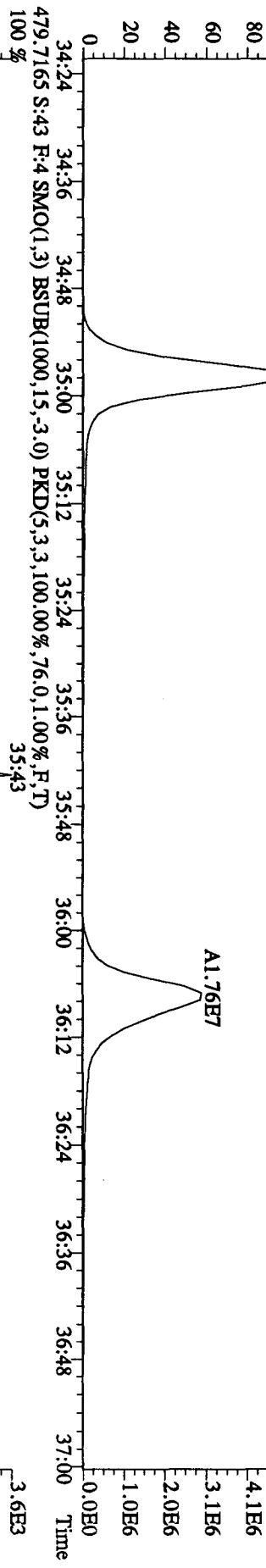
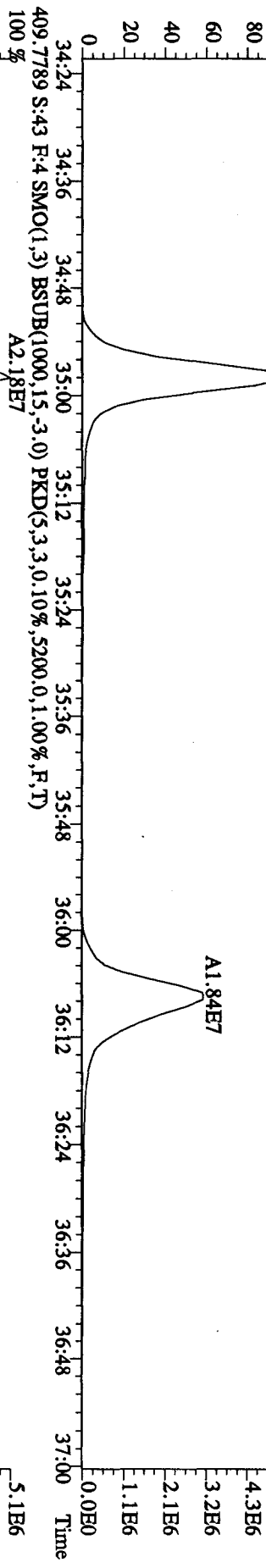
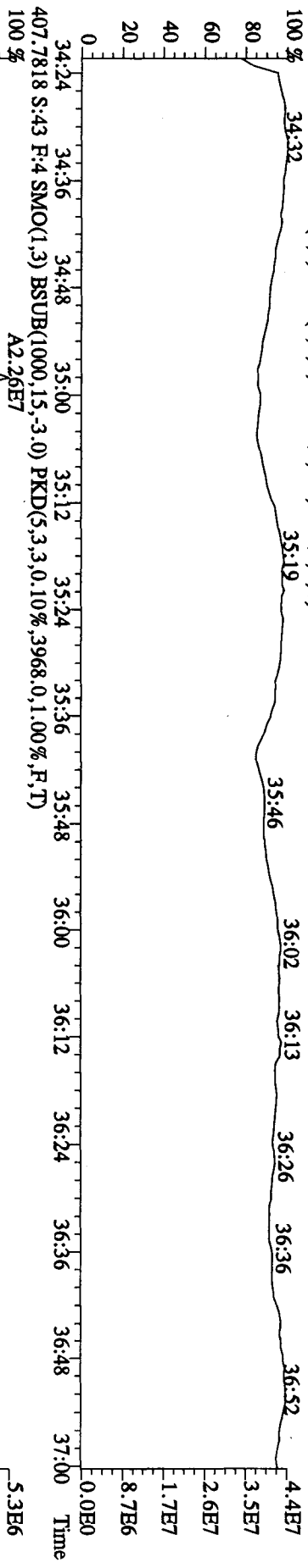
445.7555 S:43 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,112.0,1.00%,F,T)



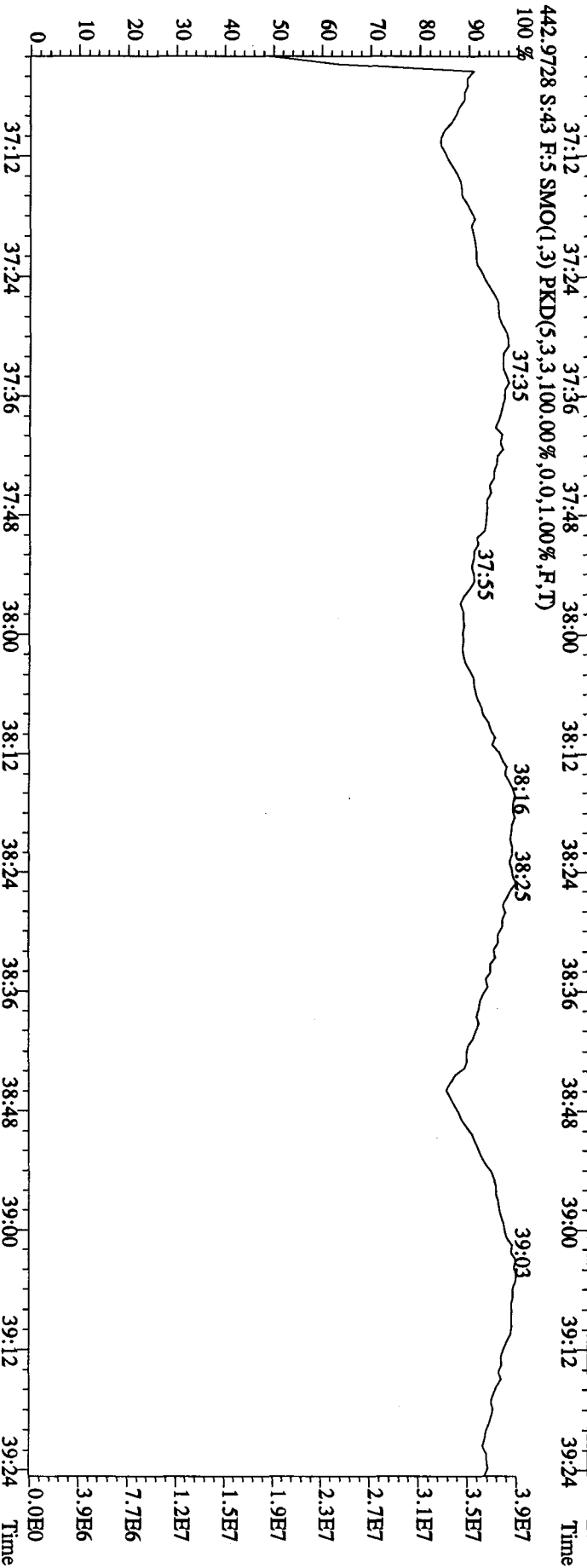
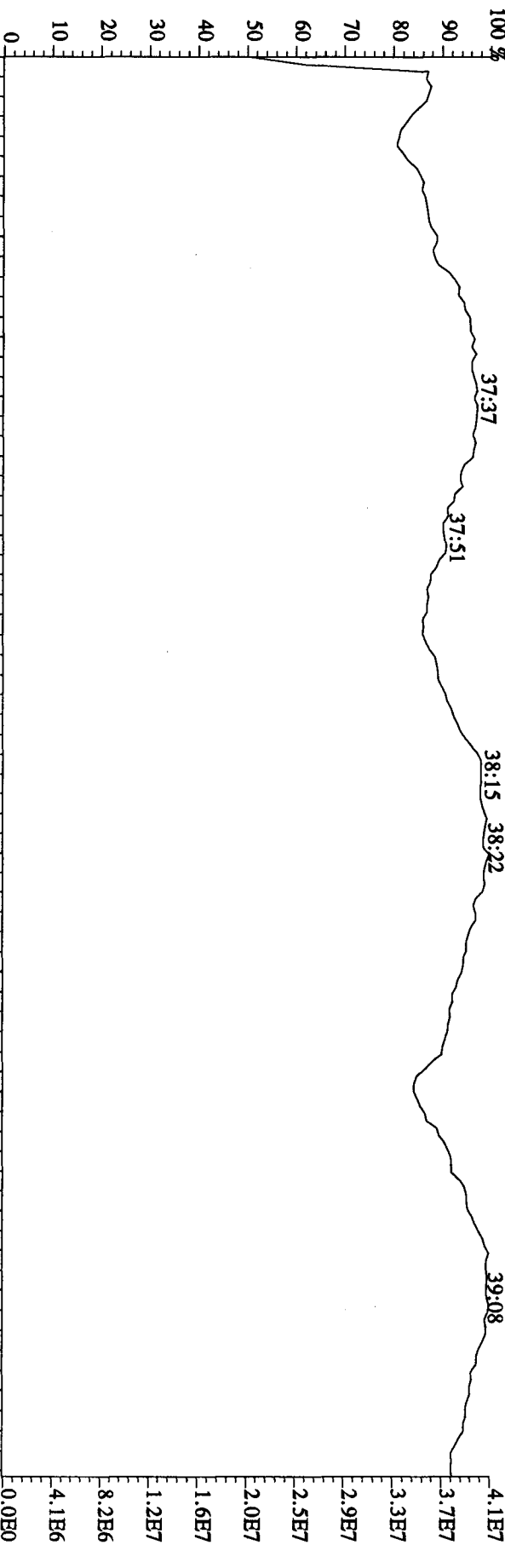
380.9760 S:43 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 140C104D5 #1-200 Acq: 15-OCT-2010 17:17:34 GC EI + Voltage SIR Autospec-UltimaB  
 Sample#43 Text: L79L2-1-AC : G0J090500-7LCS Exp: DIOXINRES  
 430.9728 S:43 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100%



File: 140C104D5 #1-193 Acq: 15-OCT-2010 17:17:34 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#43 Text: L79L2-1-AC : G0J090500-7LCS Exp: DIOXINRES  
 454.9728 S:43 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



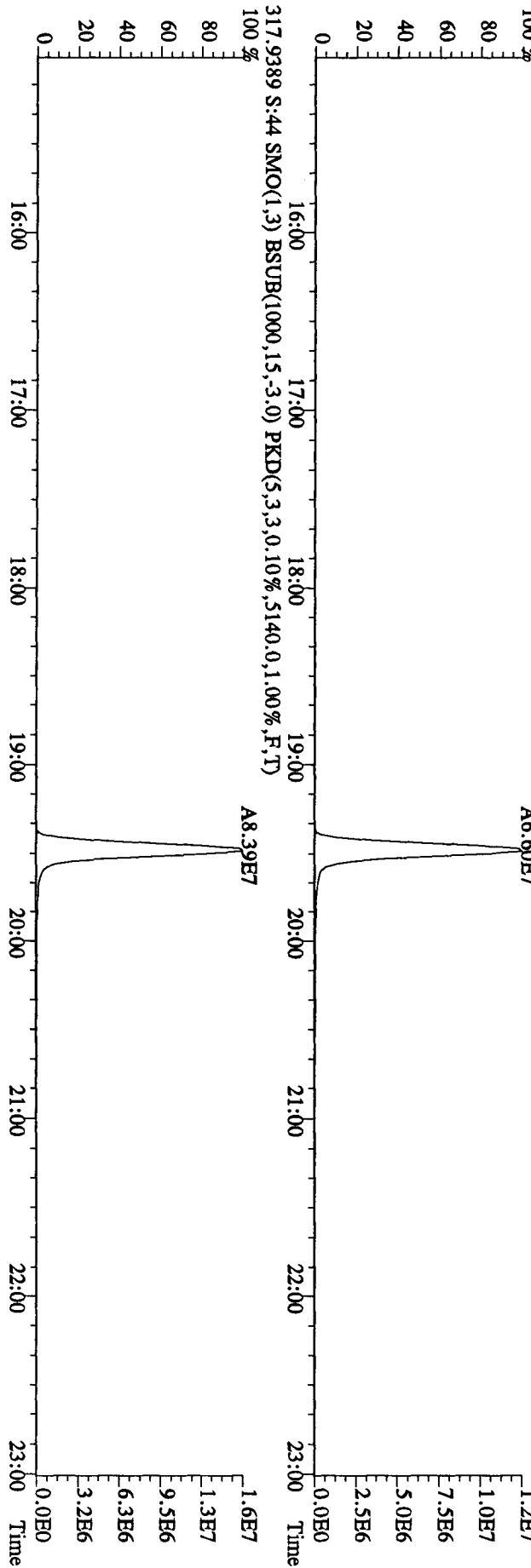
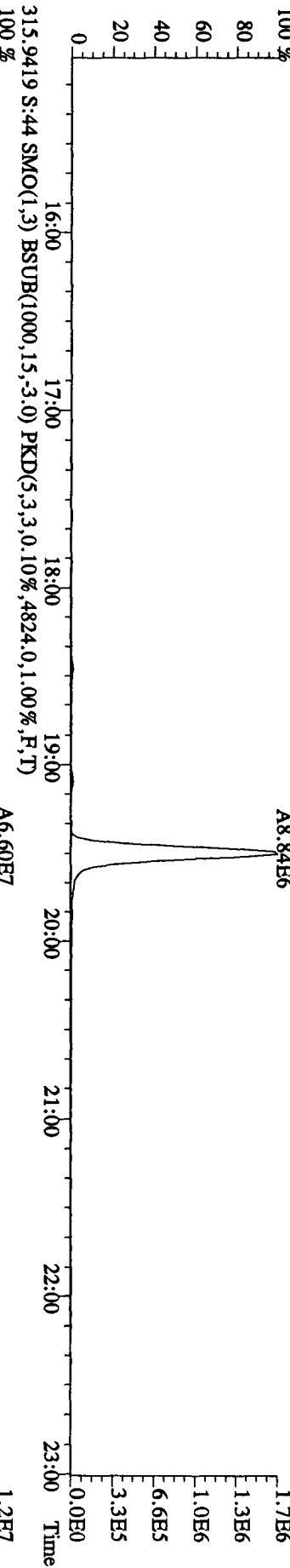
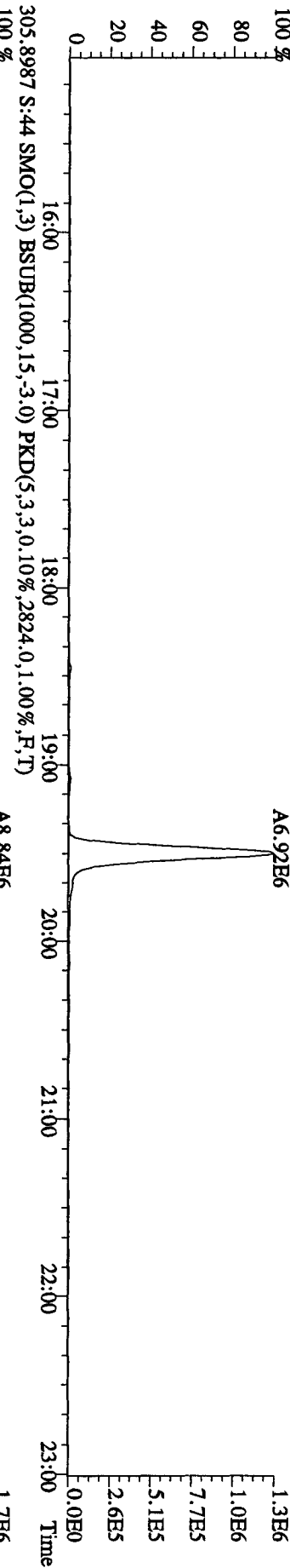
Run text: L79L2-1-AD Sample text: L79L2-1-AD :G0J090500-7DCS  
 Run #13 Filename: 14OC104D5 S: 44 I: 1 Results: 14OC104D5TO9  
 Acquired: 15-OCT-10 18:02:10 Processed: 15-OCT-10 23:14:19  
 Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

*760*  
*10/18/10*

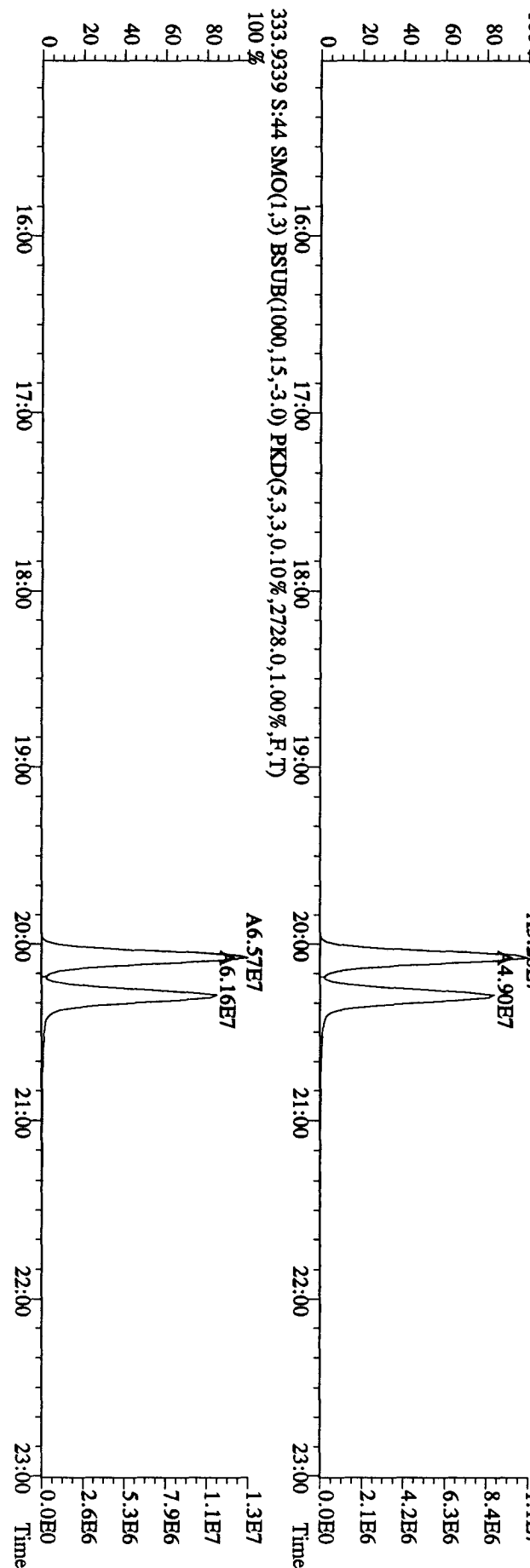
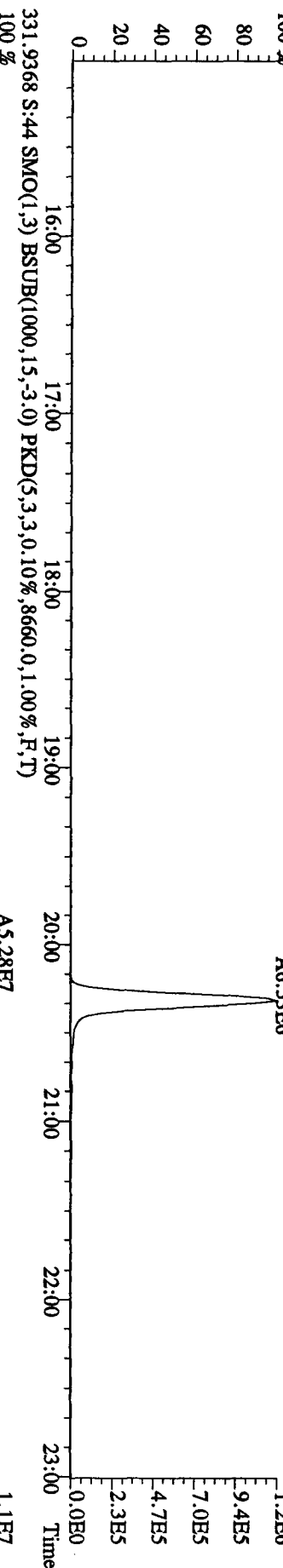
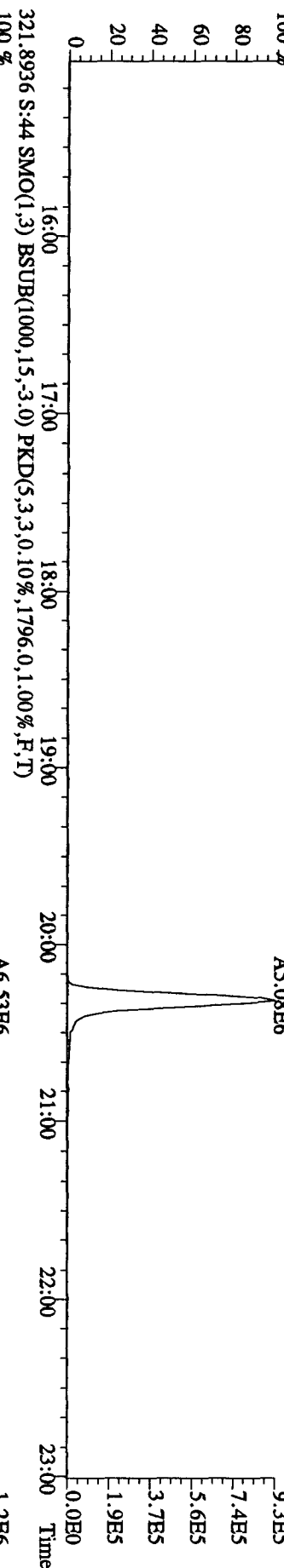
| Name                    | Resp      | RA     | RT    | RRF  | Conc                | EDL    | Rec   | M |
|-------------------------|-----------|--------|-------|------|---------------------|--------|-------|---|
| 13C-1,2,3,4-TCDD        | 118475400 | 0.80 y | 20:05 | -    | 70.945              | -      | -     | n |
| 13C-2,3,7,8-TCDF        | 149914300 | 0.79 y | 19:29 | 1.23 | 4117.199            | 4.109  | 102.9 | n |
| 2,3,7,8-TCDF            | 15759880  | 0.78 y | 19:30 | 0.99 | 422.824             | 1.879  | -     | n |
| Total TCDF              | 16055773  | 0.30 n | 17:32 | 0.99 | <del>430.762</del>  | 1.879  | -     | n |
| 13C-2,3,7,8-TCDD        | 110584200 | 0.80 y | 20:17 | 0.91 | 4125.244            | 6.379  | 103.1 | n |
| 2,3,7,8-TCDD            | 11602970  | 0.78 y | 20:19 | 0.98 | 426.753             | 1.984  | -     | n |
| Total TCDD              | 11662945  | 0.78 y | 20:19 | 0.98 | <del>428.958</del>  | 1.984  | -     | n |
| 37Cl-2,3,7,8-TCDD       | 171359    | 1.00 y | 20:19 | 1.33 | 4.674               | 0.119  | 0.3   | n |
| 13C-1,2,3,7,8-PeCDF     | 113453600 | 1.57 y | 25:23 | 0.88 | 4372.414            | 10.824 | 109.3 | n |
| 1,2,3,7,8-PeCDF         | 66191400  | 1.55 y | 25:25 | 1.08 | 2167.577            | 5.607  | -     | n |
| 2,3,4,7,8-PeCDF         | 61720000  | 1.53 y | 27:00 | 1.05 | 2081.168            | 5.773  | -     | n |
| Total F2 PeCDF          | 129588493 | 1.70 y | 23:48 | 1.06 | <del>4304.468</del> | 5.689  | -     | n |
| Total F1 PeCDF          | 73503     | 1.07 n | 16:08 | 1.06 | <del>2.442</del>    | 1.325  | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 77350000  | 1.59 y | 27:49 | 0.66 | 3951.899            | 2.415  | 98.8  | n |
| 1,2,3,7,8-PeCDD         | 43215500  | 1.44 y | 27:51 | 0.93 | 2414.800            | 7.143  | -     | n |
| Total PeCDD             | 43496834  | 2.97 n | 27:12 | 0.93 | <del>2430.521</del> | 7.143  | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 73693100  | 1.30 y | 33:25 | -    | 62.241              | -      | -     | n |
| 13C-1,2,3,4,7,8-HxCDF   | 66165000  | 0.50 y | 32:20 | 1.04 | 3437.431            | 1.852  | 85.9  | n |
| 1,2,3,4,7,8-HxCDF       | 47840500  | 1.17 y | 32:21 | 1.22 | 2376.032            | 1.072  | -     | n |
| 1,2,3,6,7,8-HxCDF       | 50871600  | 1.21 y | 32:26 | 1.28 | 2399.628            | 1.019  | -     | n |
| 2,3,4,6,7,8-HxCDF       | 49131400  | 1.17 y | 32:58 | 1.23 | 2408.135            | 1.058  | -     | n |
| 1,2,3,7,8,9-HxCDF       | 42667500  | 1.19 y | 33:37 | 1.10 | 2348.882            | 1.189  | -     | n |
| Total HxCDF             | 190672769 | 0.97 n | 31:20 | 1.21 | <del>9540.775</del> | 1.081  | -     | n |
| 13C-1,2,3,6,7,8-HxCDD   | 59995200  | 1.26 y | 33:09 | 0.83 | 3919.746            | 0.375  | 98.0  | n |
| 1,2,3,4,7,8-HxCDD       | 31353300  | 1.27 y | 33:06 | 1.04 | 2015.440            | 1.319  | -     | n |
| 1,2,3,6,7,8-HxCDD       | 40896000  | 1.29 y | 33:10 | 1.16 | 2344.888            | 1.176  | -     | n |
| 1,2,3,7,8,9-HxCDD       | 38991500  | 1.25 y | 33:26 | 1.18 | 2199.882            | 1.157  | -     | n |
| Total HxCDD             | 111240800 | 1.27 y | 33:06 | 1.13 | <del>6560.209</del> | 1.213  | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDF | 61146300  | 0.44 y | 34:57 | 0.91 | 3647.130            | 13.357 | 91.2  | n |
| 1,2,3,4,6,7,8-HpCDF     | 48568800  | 1.04 y | 34:57 | 1.35 | 2360.884            | 7.110  | -     | n |
| 1,2,3,4,7,8,9-HpCDF     | 39933900  | 1.05 y | 36:07 | 1.09 | 2389.113            | 8.751  | -     | n |
| Total HpCDF             | 89031915  | 1.04 y | 34:57 | 1.22 | <del>4778.384</del> | 7.846  | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDD | 58397000  | 1.06 y | 35:47 | 0.83 | 3834.645            | 5.044  | 95.9  | n |
| 1,2,3,4,6,7,8-HpCDD     | 33213600  | 1.03 y | 35:47 | 1.07 | 2122.822            | 4.769  | -     | n |
| Total HpCDD             | 33381897  | 1.29 n | 35:13 | 1.07 | <del>2133.579</del> | 4.769  | -     | n |
| 13C-OCDD                | 80476900  | 0.89 y | 38:21 | 0.62 | 7046.671            | 1.525  | 88.1  | n |

|      |          |      |   |       |      |          |       |   |   |
|------|----------|------|---|-------|------|----------|-------|---|---|
| OCDF | 58823500 | 0.89 | y | 38:28 | 1.37 | 4267.316 | 2.103 | - | n |
| OCDD | 51013900 | 0.88 | y | 38:22 | 1.20 | 4228.371 | 6.953 | - | n |

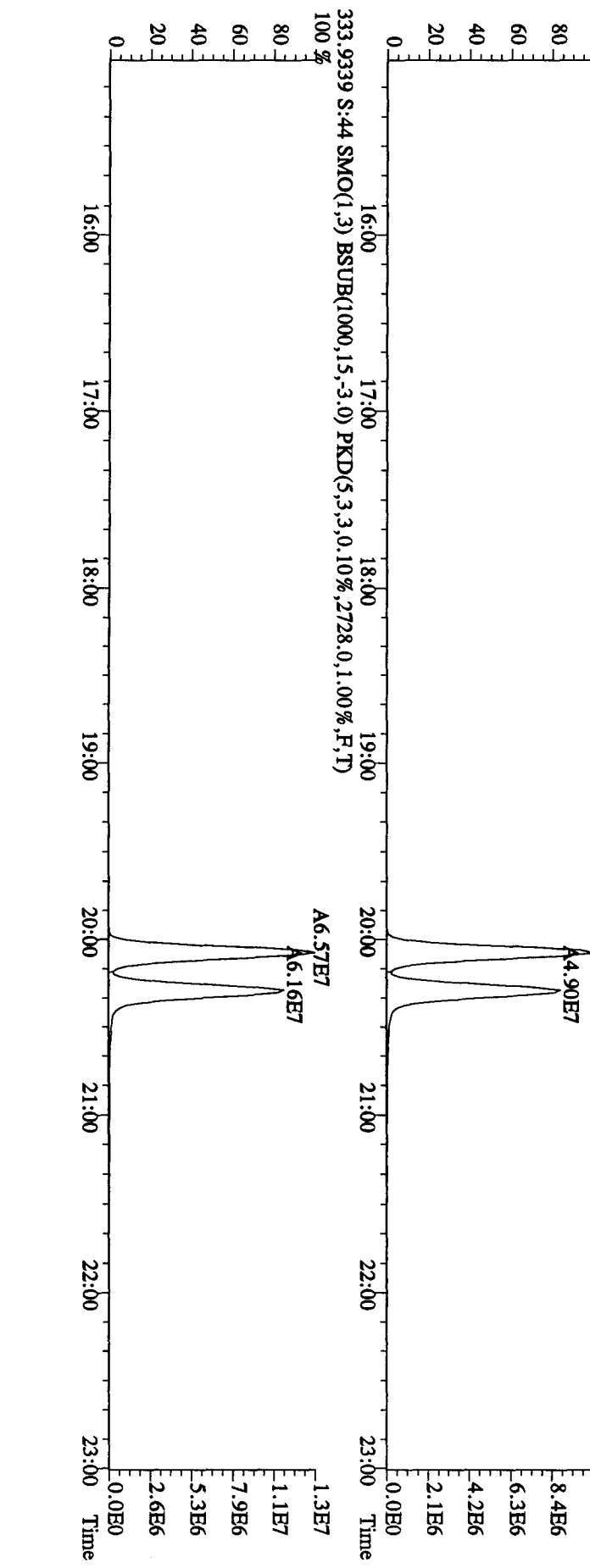
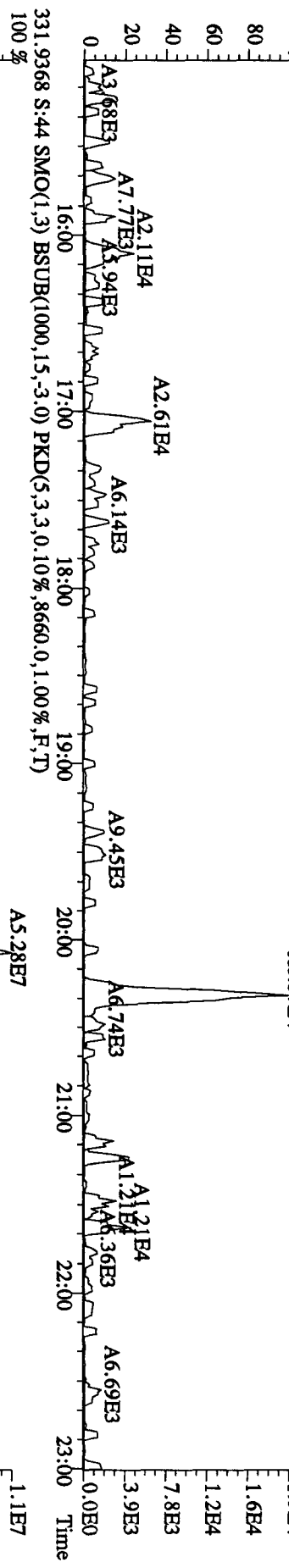
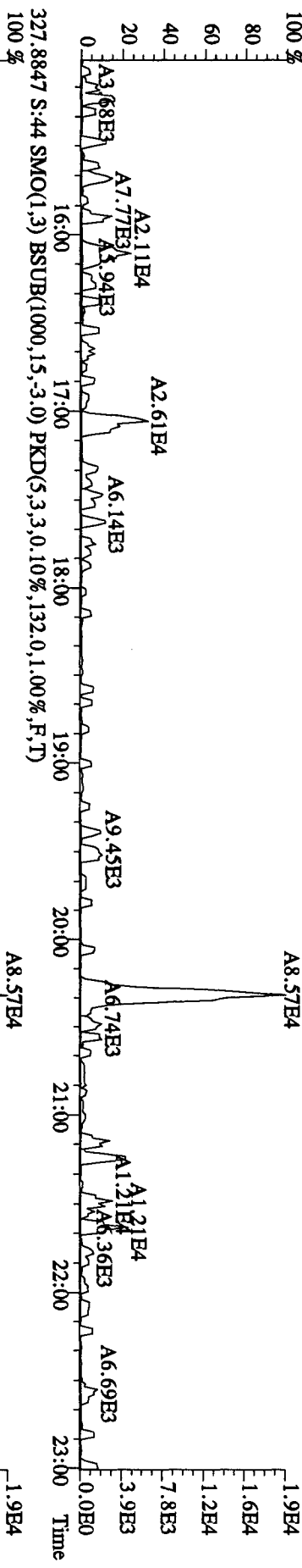
File:140C104D5 #1-530 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#44 Text:L79L2-1-AD :G0J090500-7DCS Exp:DIOXINRES  
 303.9016 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1584.0,1.00%,F,T)  
 100 %



File:14OC104D5 #1-530 Acq:15-OCT-2010 18:02:10 GC EI + Voltage SIR Autospec-UltimaE  
 Sample#44 Text:L79L2-1-AD :G0J090500-7DCS Exp:DIOXINRES  
 319.8965 S:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1456.0,1.00%,F,T)

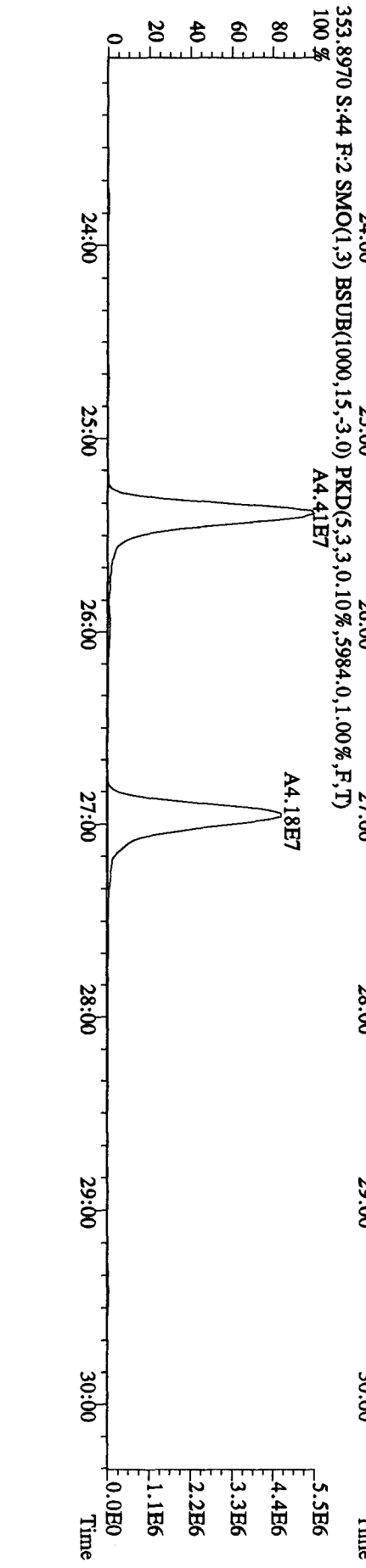
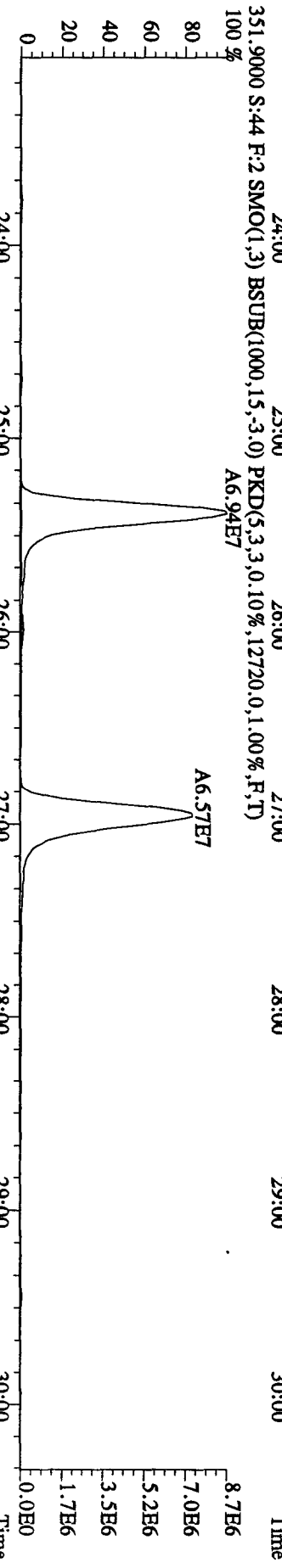
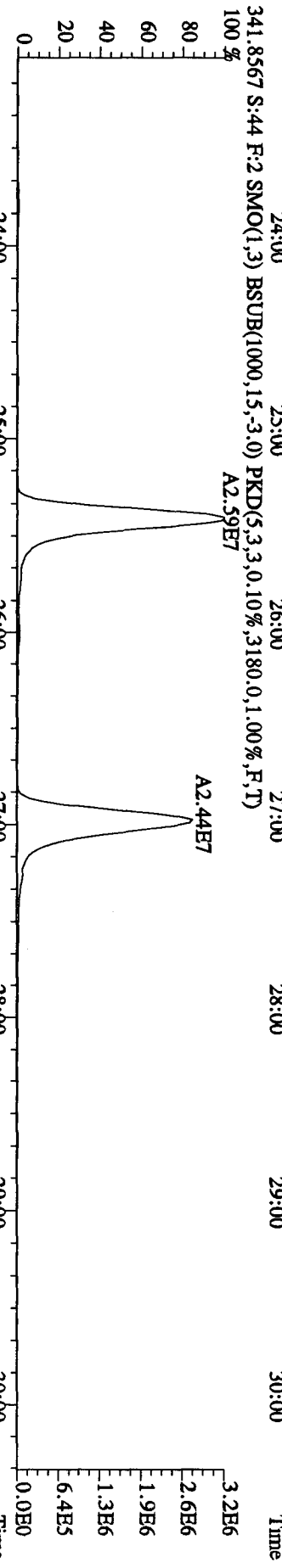
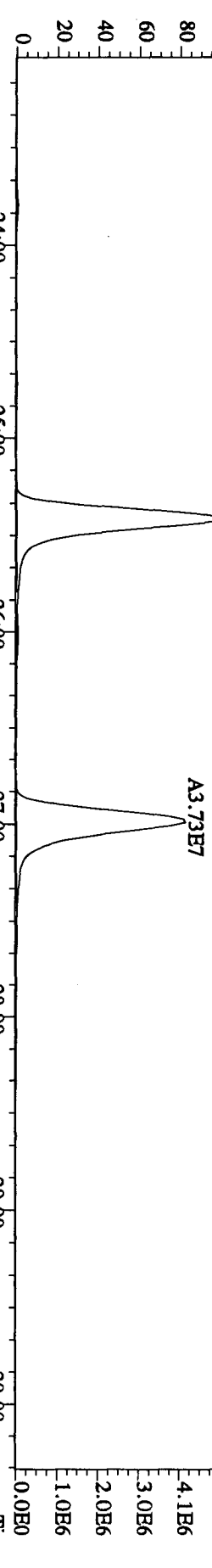


File:14OC104D5 #1-530 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#44 Text:L79L2-1-AD :G0J090500-7DCS Exp:DIOXINRES  
 327.8847 S.:44 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,132.0,1.00%,F,T)  
 100 %

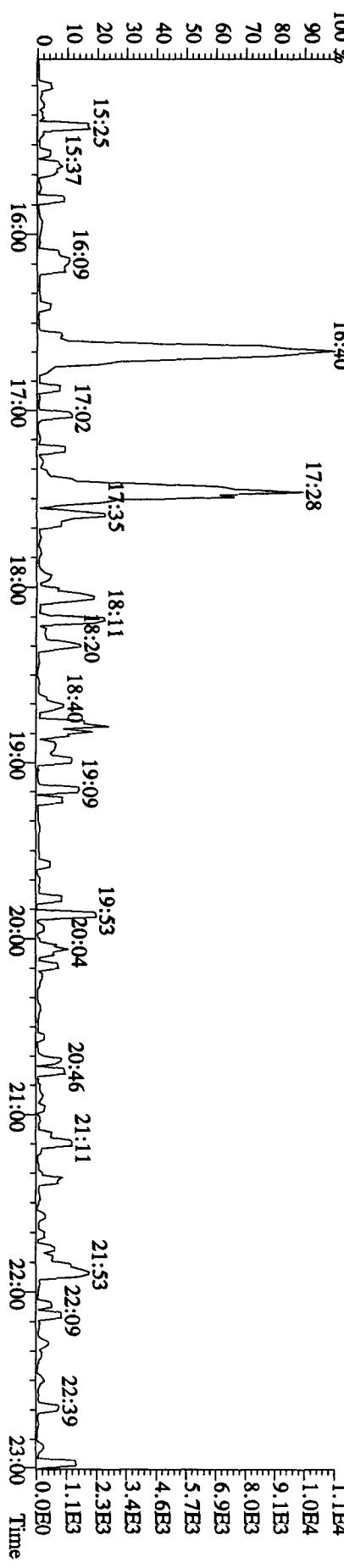
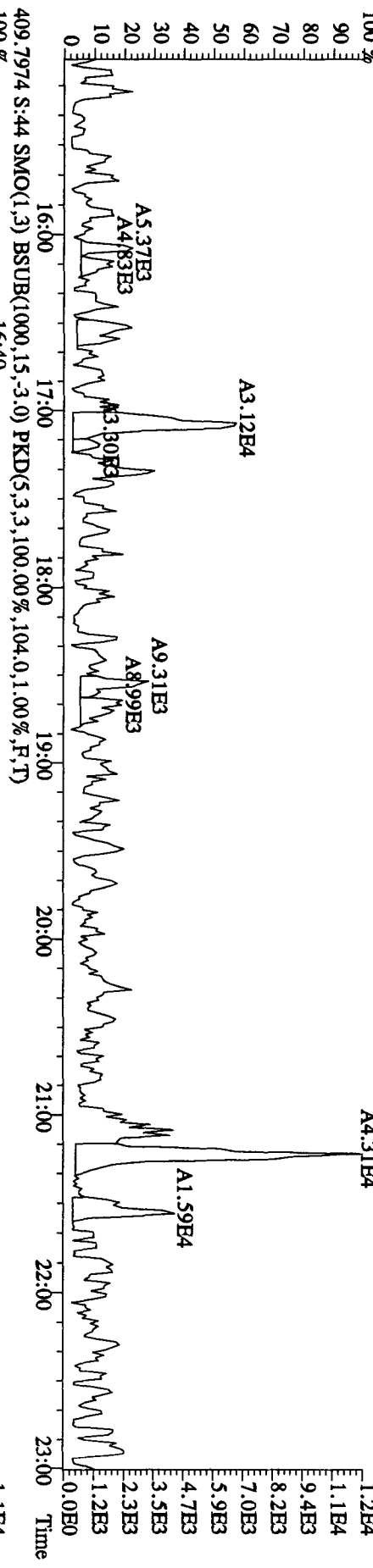
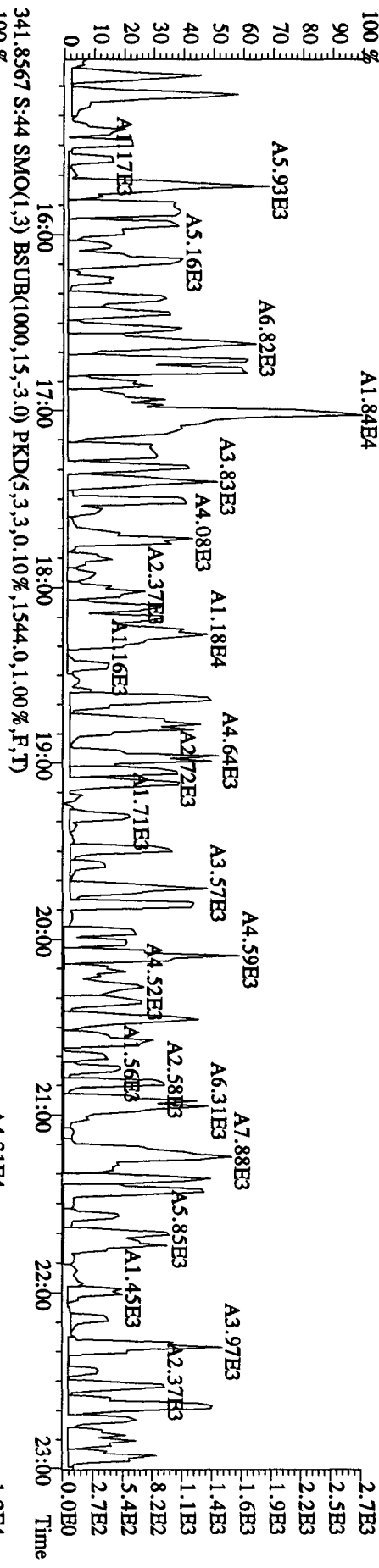




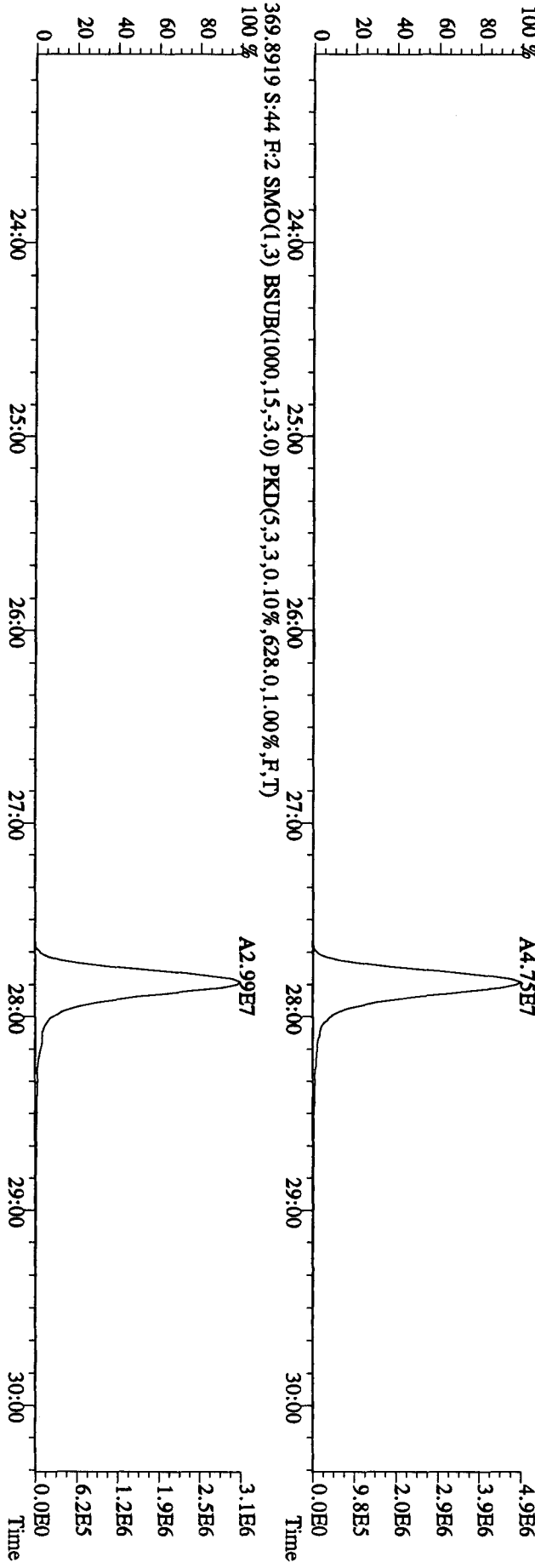
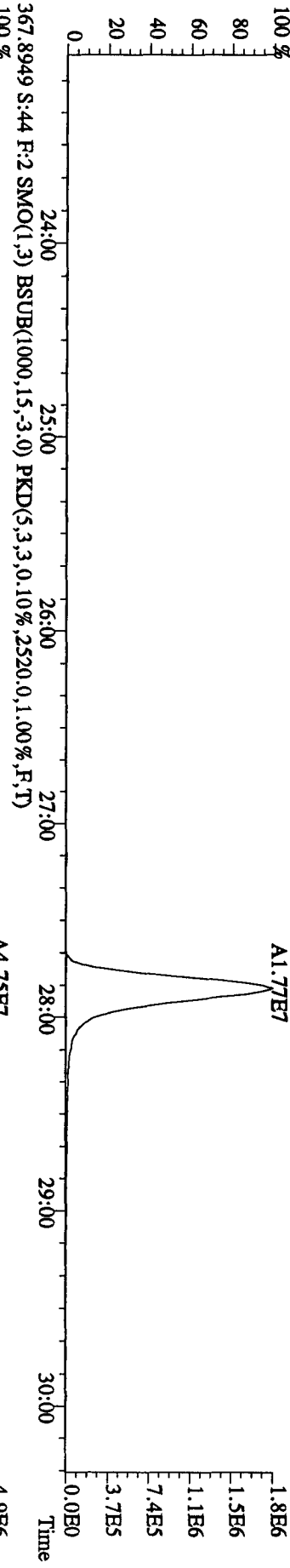
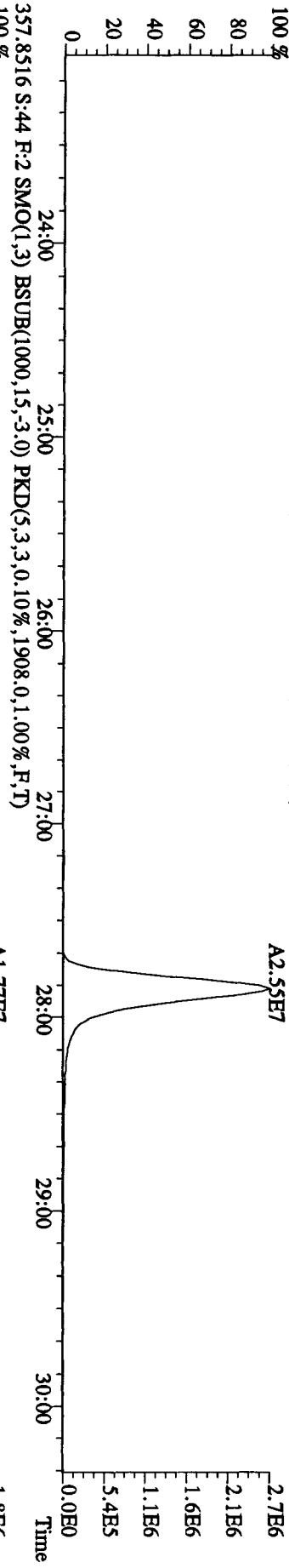
File:14OC104D5 #1-470 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#44 Text:L79L2-1-AD :G01090500-7DCS Exp:DIOXINRES  
 339.8597 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.3980,0,1,1.00%,F,T)  
 100 % A4.03E7



File:14OC104D5 #1-530 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#44 Text:L79L2-1-AD :G01090500-7DCS Exp:DIOXINRES  
 339.8597 S:44 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,124.0,1.00%,F,T)  
 100% A1.84E4



File:14OC104D5 #1-470 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#44 Text:L79L2-1-AD :G0J090500-7DCS Exp:DIOXINRES  
 355.8546 S:44 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2492.0,1.00%,F,T)  
 100 %

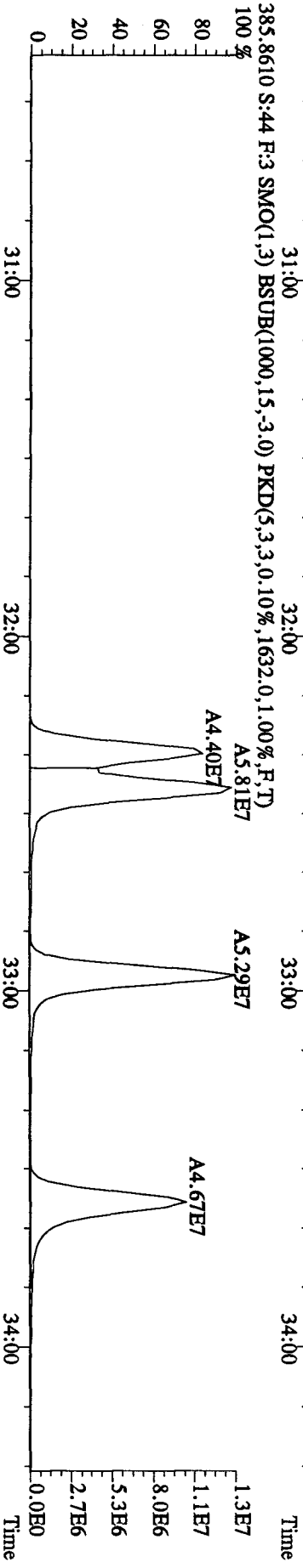
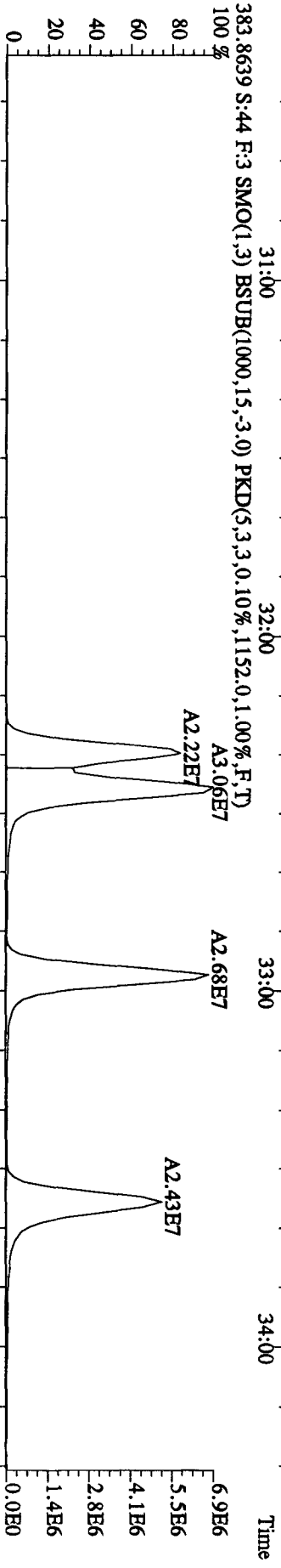
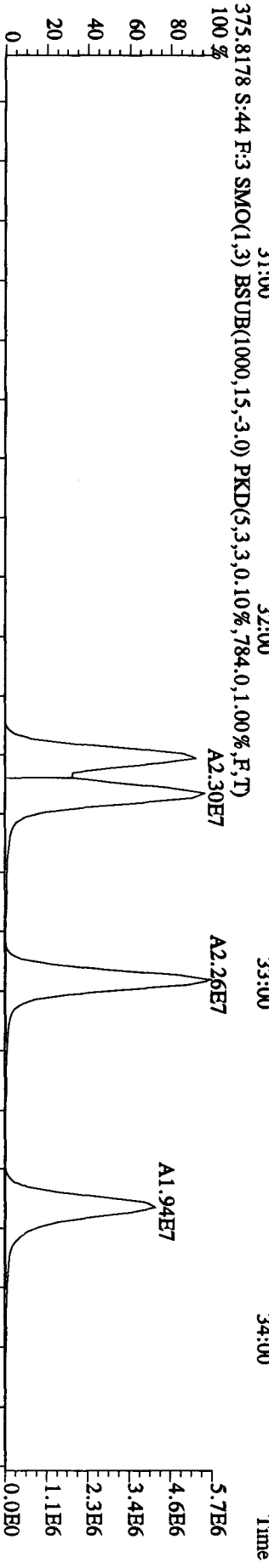
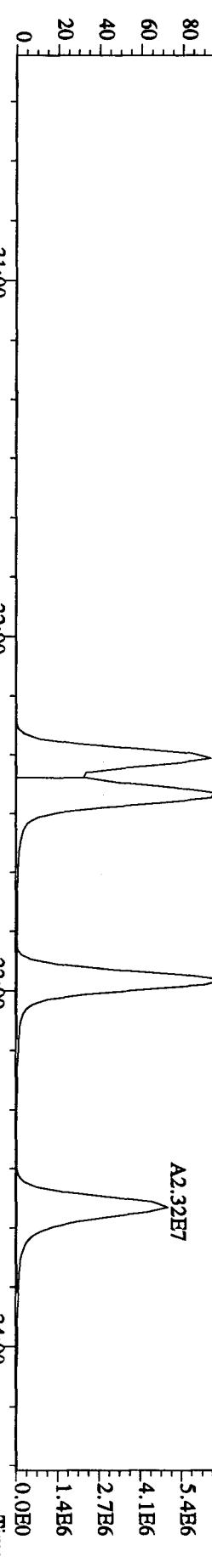


File:14OC104D5 #1-287 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-UltimaB

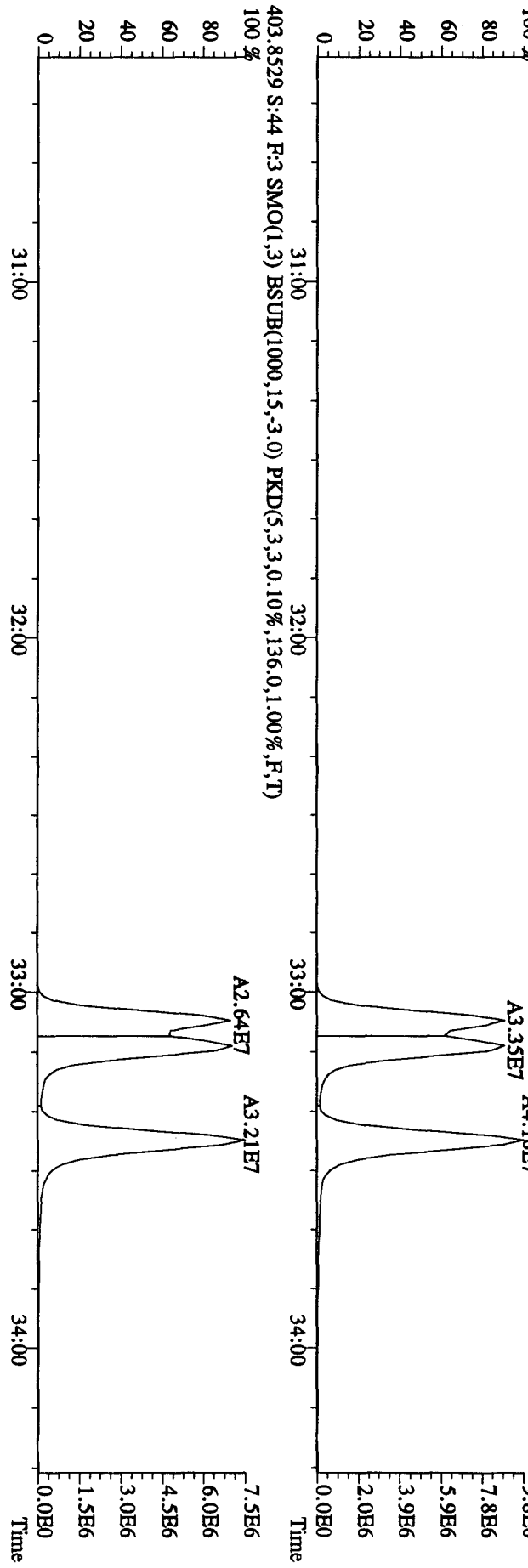
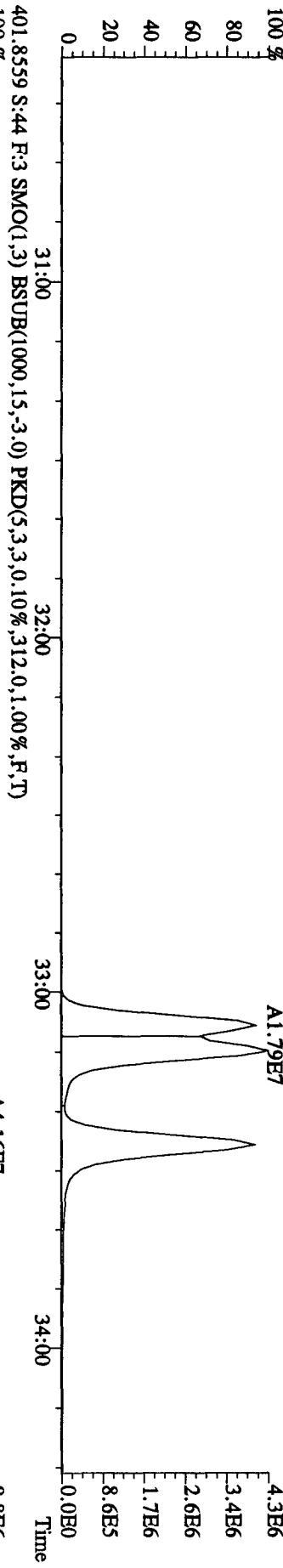
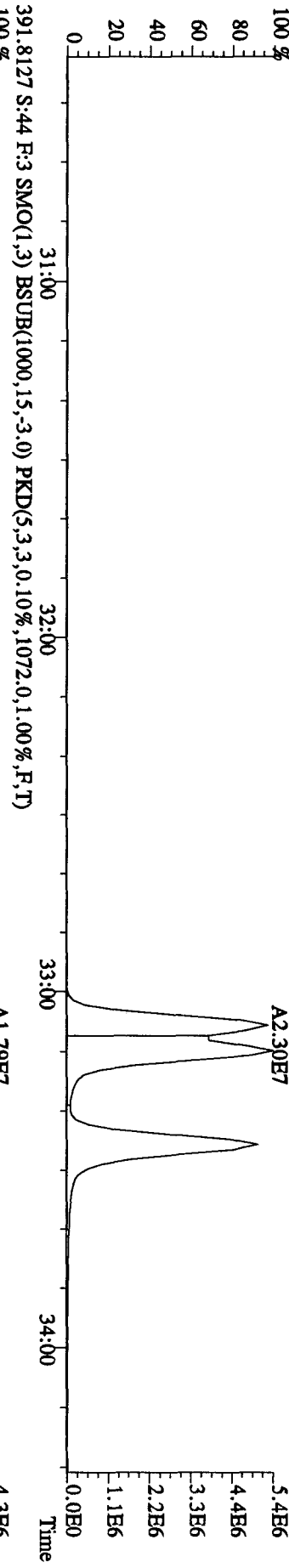
Exp:DIOXINRES

Sample#44 Text:L79L2-1-AD :G0J090500-7DCS

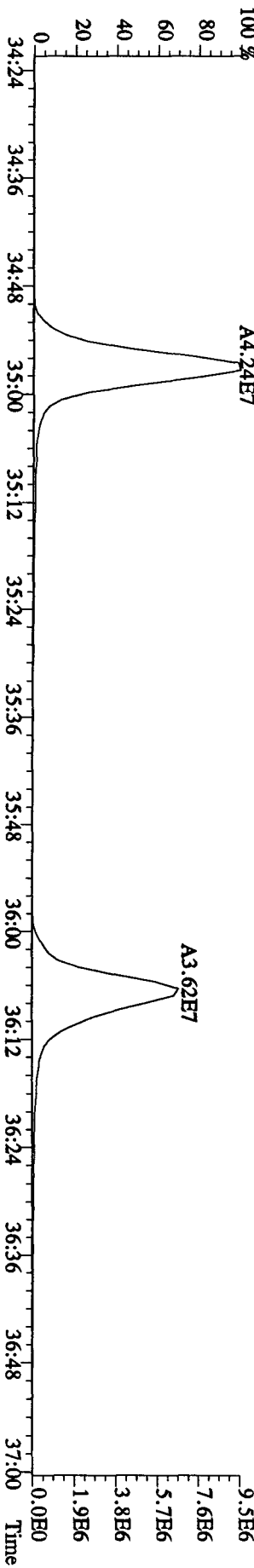
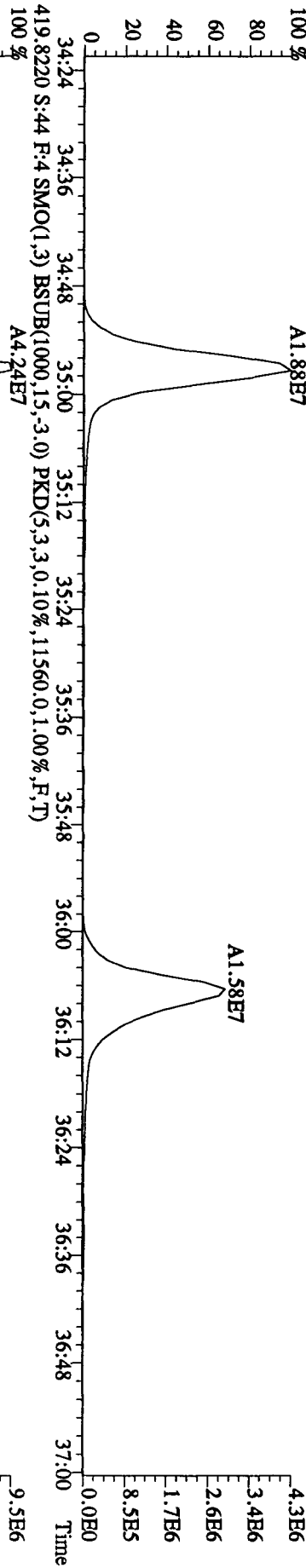
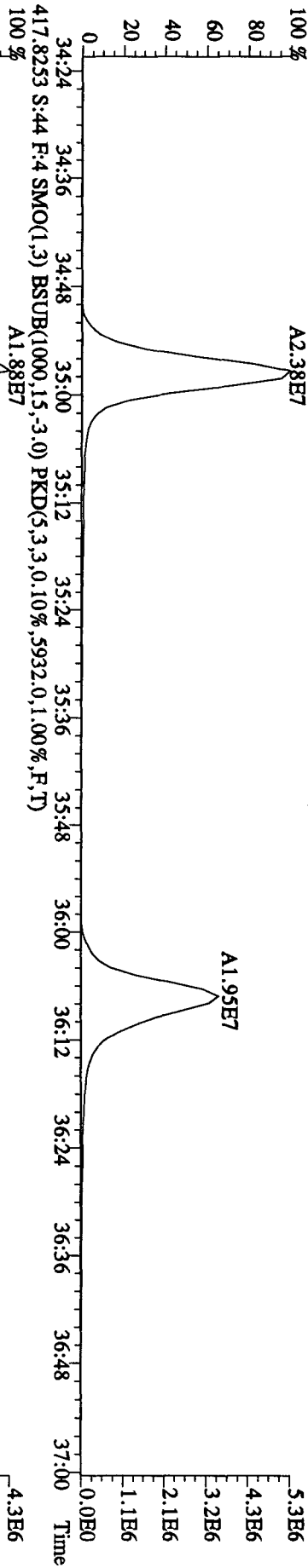
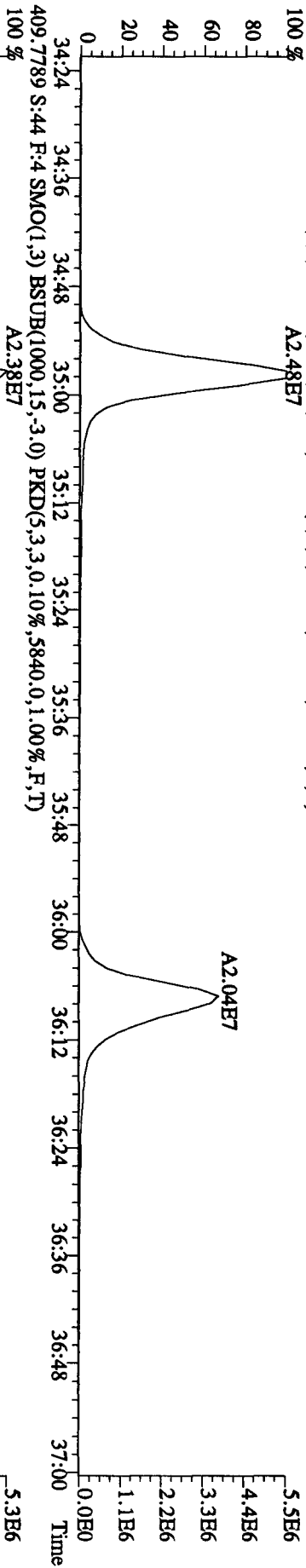
373.8208 S:44 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1076.0,1.00%,F,T)



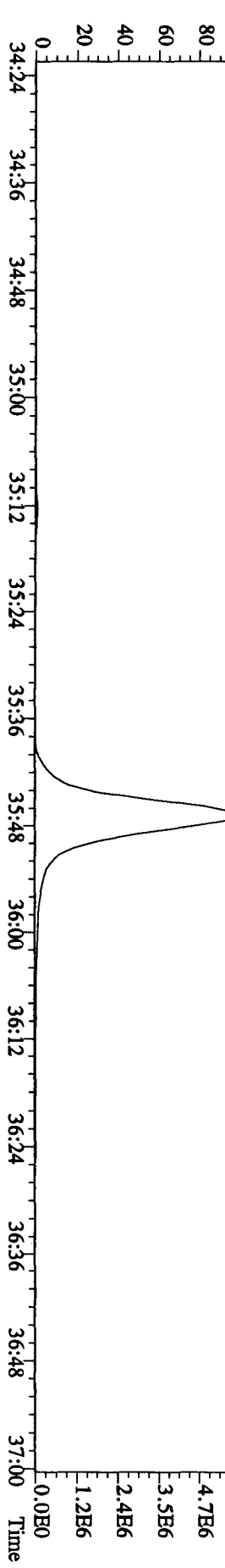
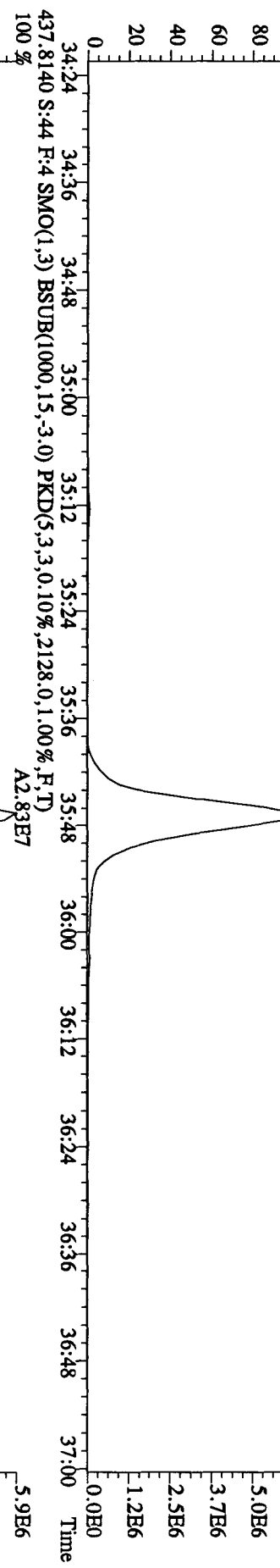
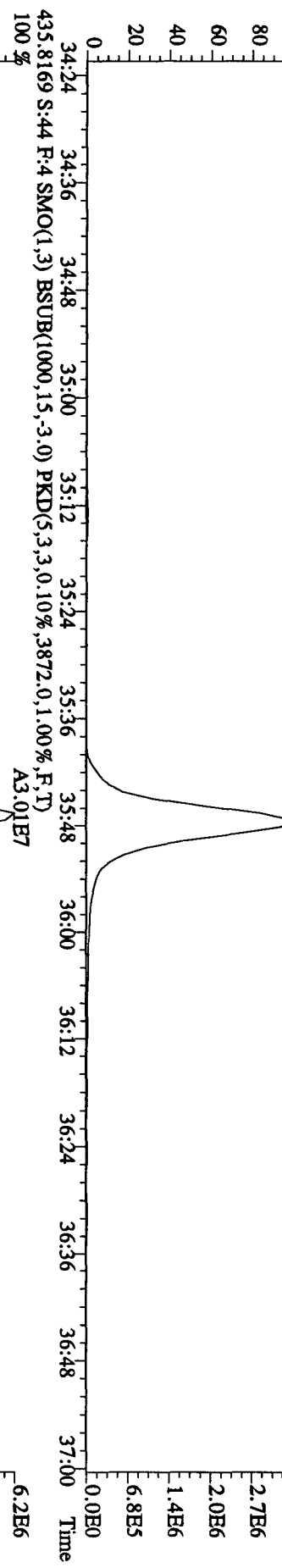
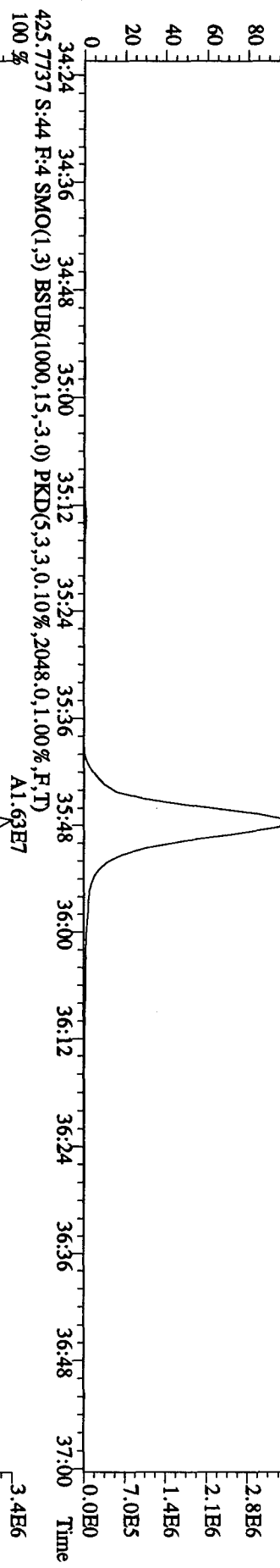
File:14OC104D5 #1-287 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#44 Text:L79L2-1-AD :G0J090500-7DCS Exp:DIOXINRES  
 389.8157 S:44 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,744.0,1.00%,F,T)  
 100 %



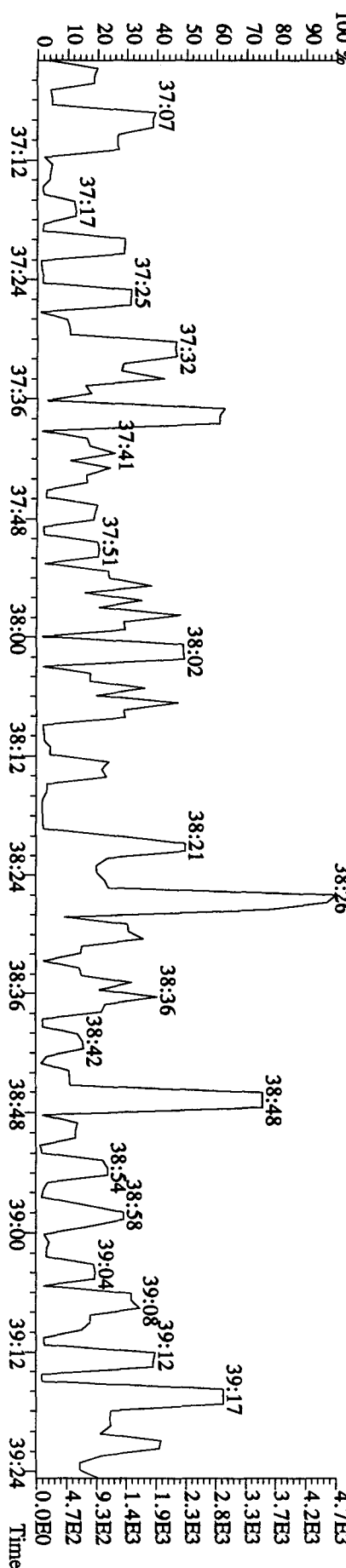
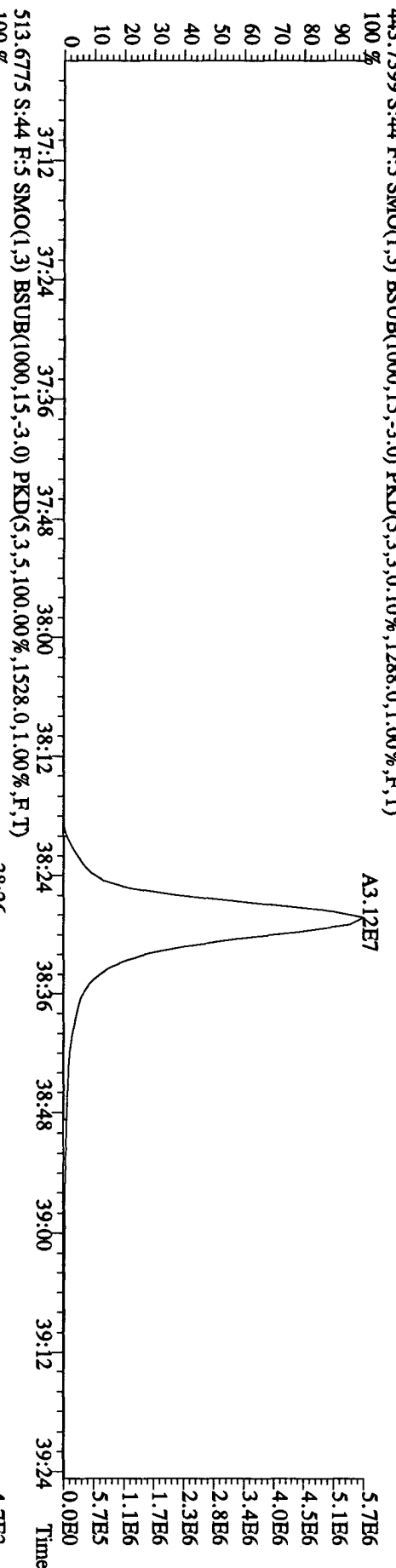
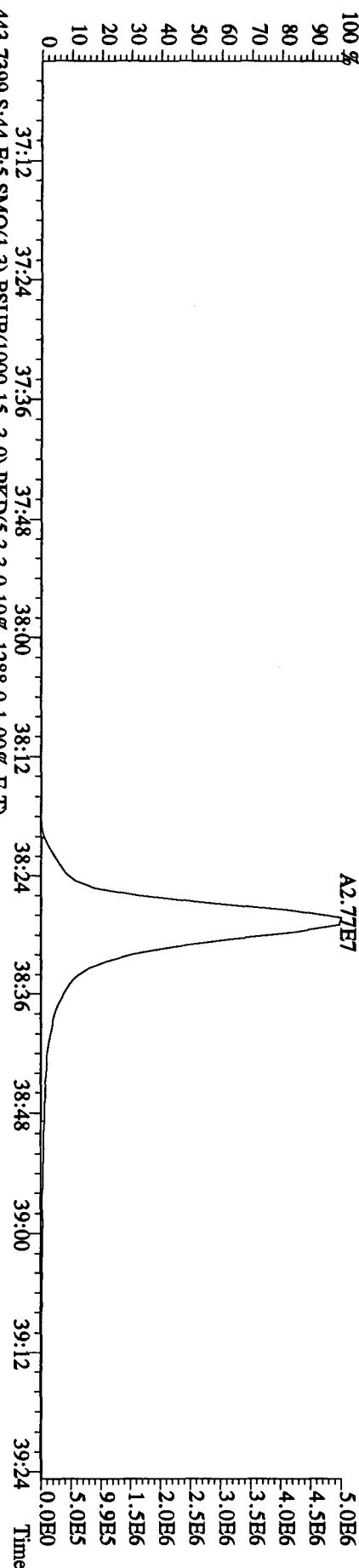
File:14OC104D5 #1-200 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#44 Text:L79L2-1-AD :G0J090500-7DCS Exp:DIOXINRES  
 407.7818 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5136,0,1,00%,F,T)  
 100%



File:14OC104D5 #1-200 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#44 Text:L79L2-1-AD :G0J090500-7DCS Exp:DIOXINRES  
 423.7766 S:44 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3116,0,1,100%,F,T)  
 100 % A1.69E7

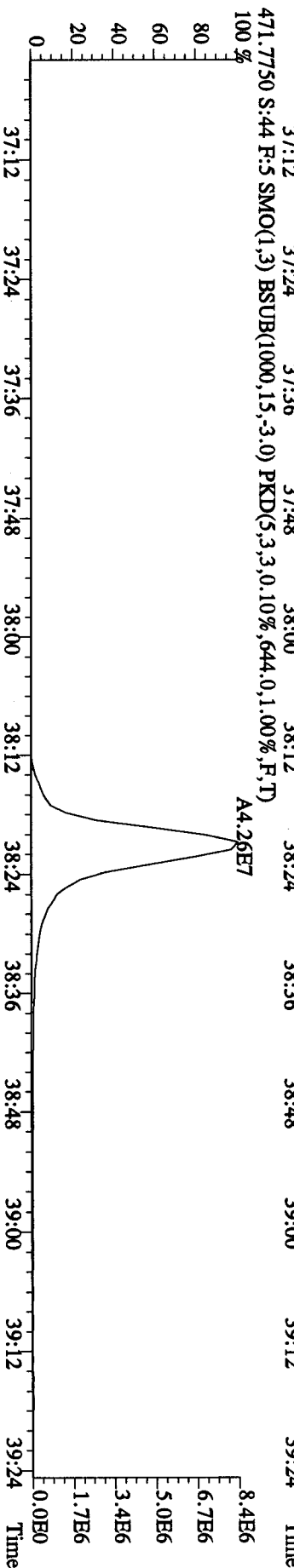
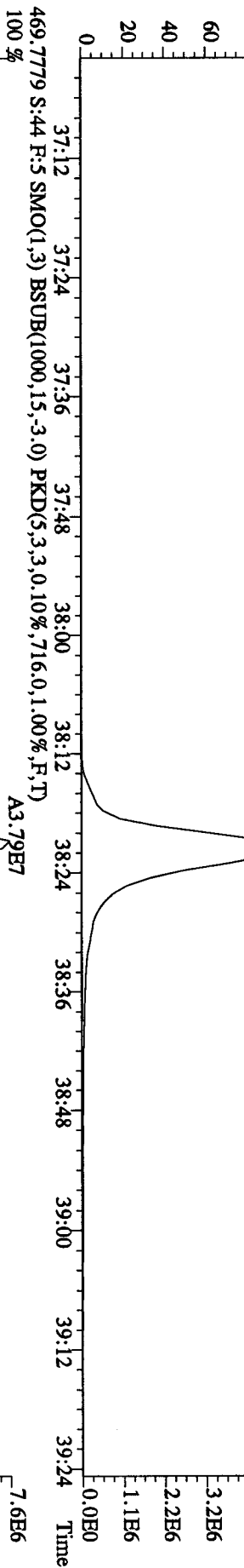
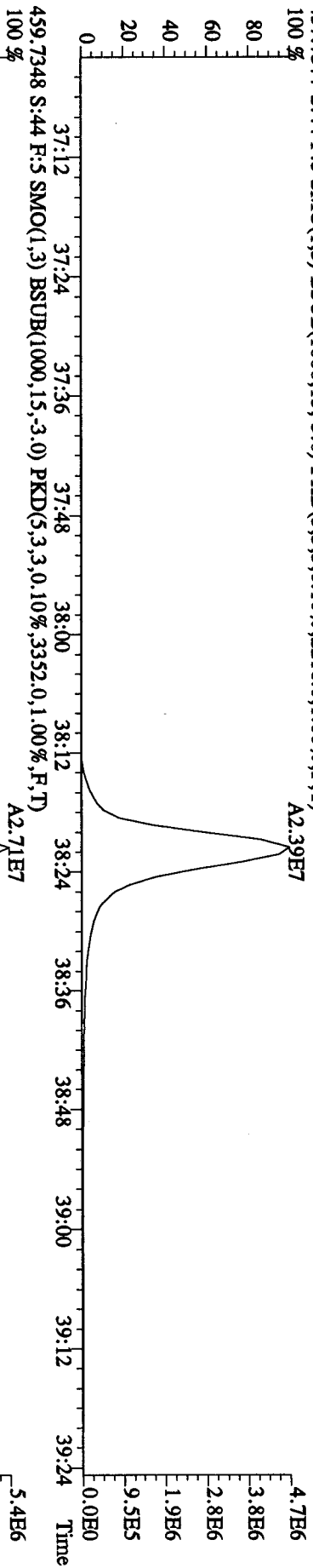


File:14OC104D5 #1-193 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#44 Text:L79L2-1-AD :G01090500-7DCS Exp:DIOXINRES  
 441.7428 S:44 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,636,0,1,00%,F,T)





File:14OC104D5 #1-193 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#44 Tex:L79L2-1-AD :G01090500-7DCS Exp:DIOXINRES  
 457.7377 S:44 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2216,0,1.00%,F,T)  
 100 %

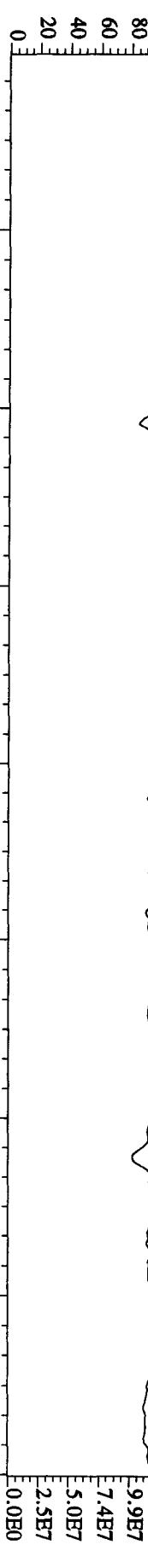


File: 140C104D5 #1-530 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-Ultimate

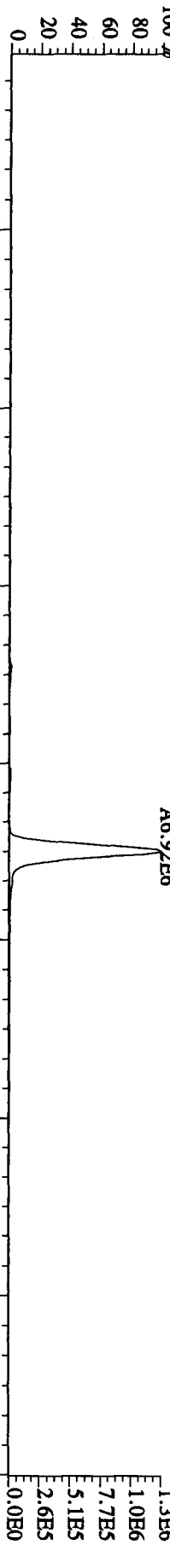
Sample#44 Text:L79L2-1-AD :G01090500-7DCS Exp:DIOXINRES

292.9825 S:44 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

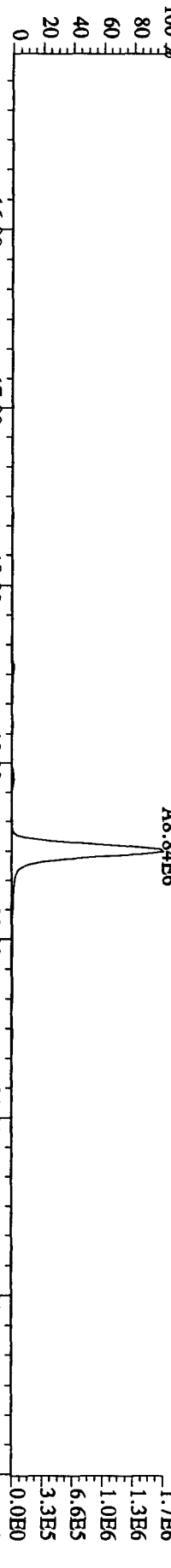
100% 15:20 15:45 16:34 17:12 17:55 18:37 19:26 20:03 20:50 21:30 22:12 22:44



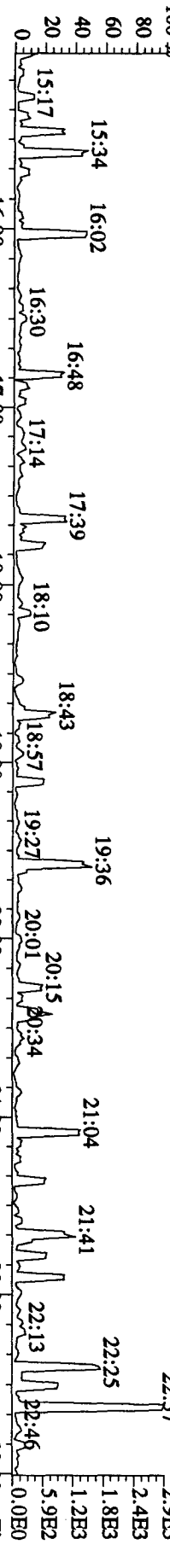
303.9016 S:44 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1584.0,1.00%,F,T)



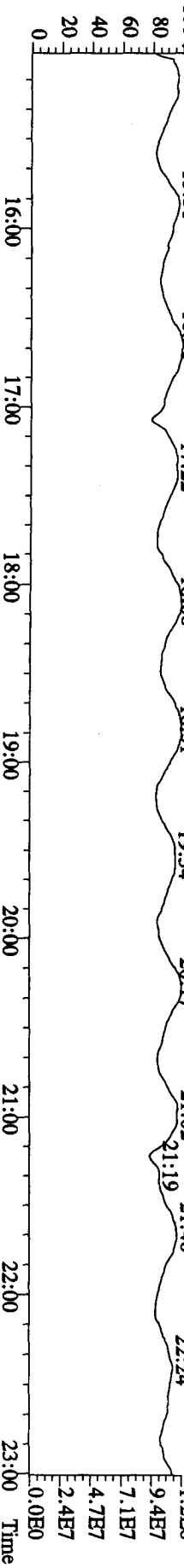
305.8987 S:44 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2824.0,1.00%,F,T)

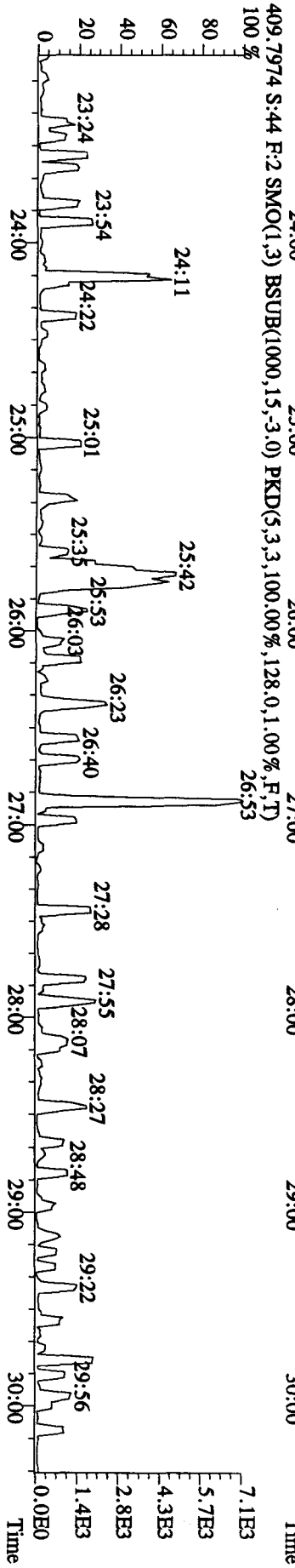
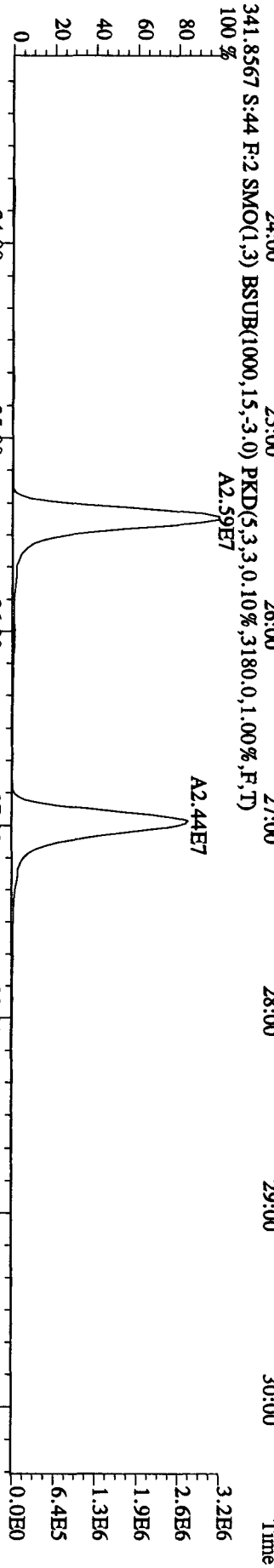
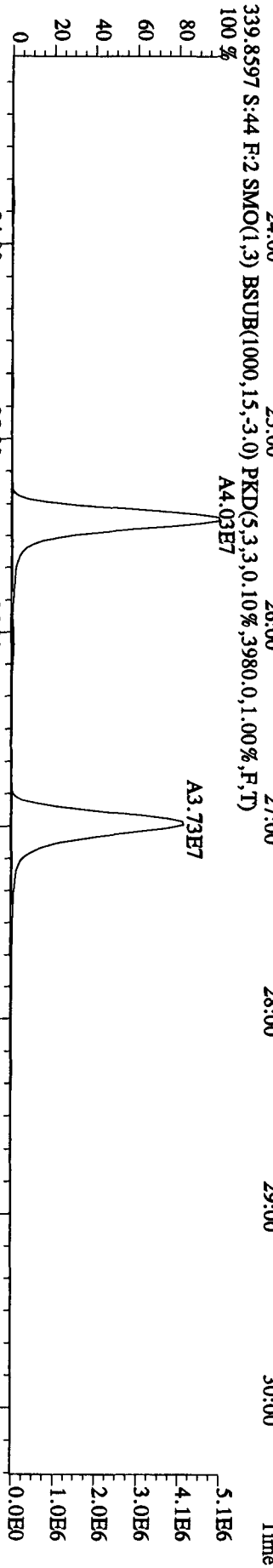
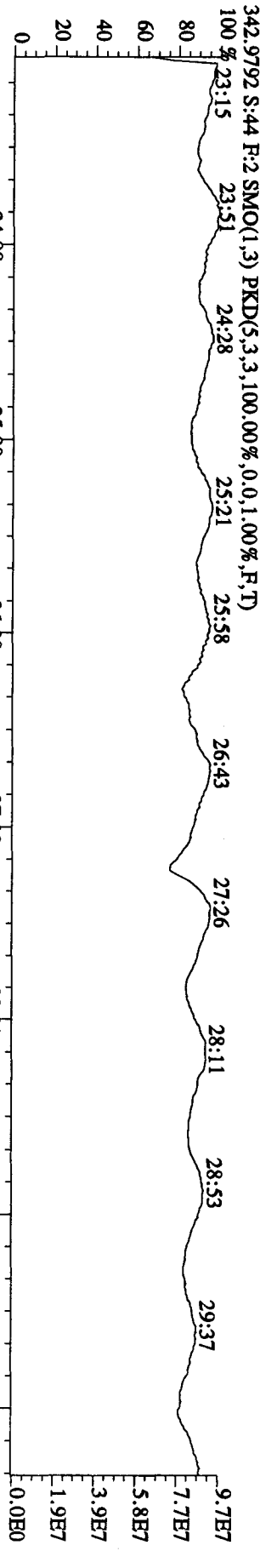


375.8364 S:44 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,116.0,1.00%,F,T)



330.9792 S:44 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

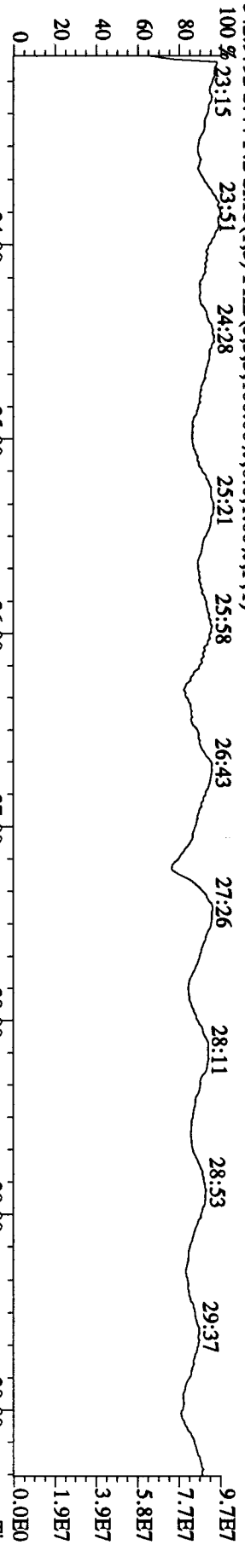




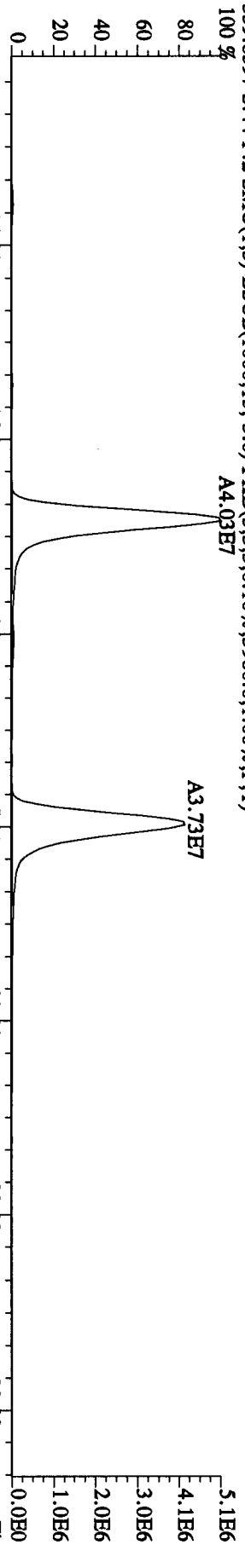
File: 14OC104D5 #1-470 Acq: 15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-Ultimate

Sample#44 Text: L79L2-1-AD : G01090500-7DCS Exp: DIOXINRES

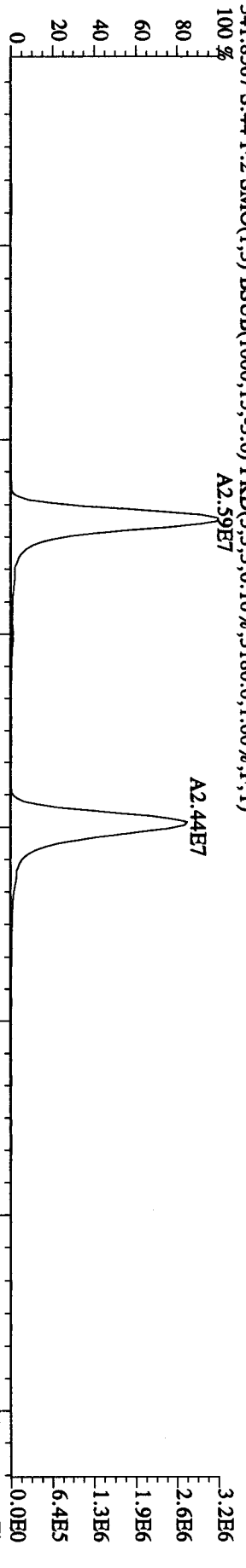
342.9792 S:44 F:2 SMO(1,3) PKD(5,3,3,100,0.0%,0,0,1.00%,F,T)



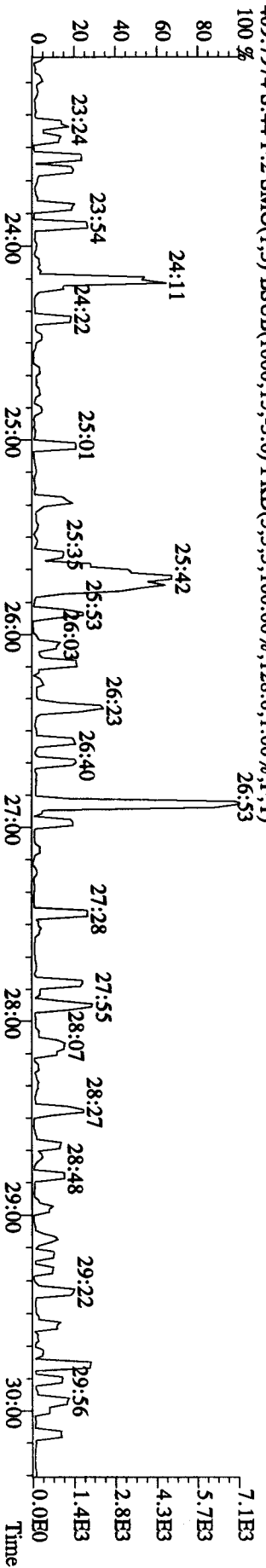
339.8597 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3980,0,1.00%,F,T)



341.8567 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3180,0,1.00%,F,T)

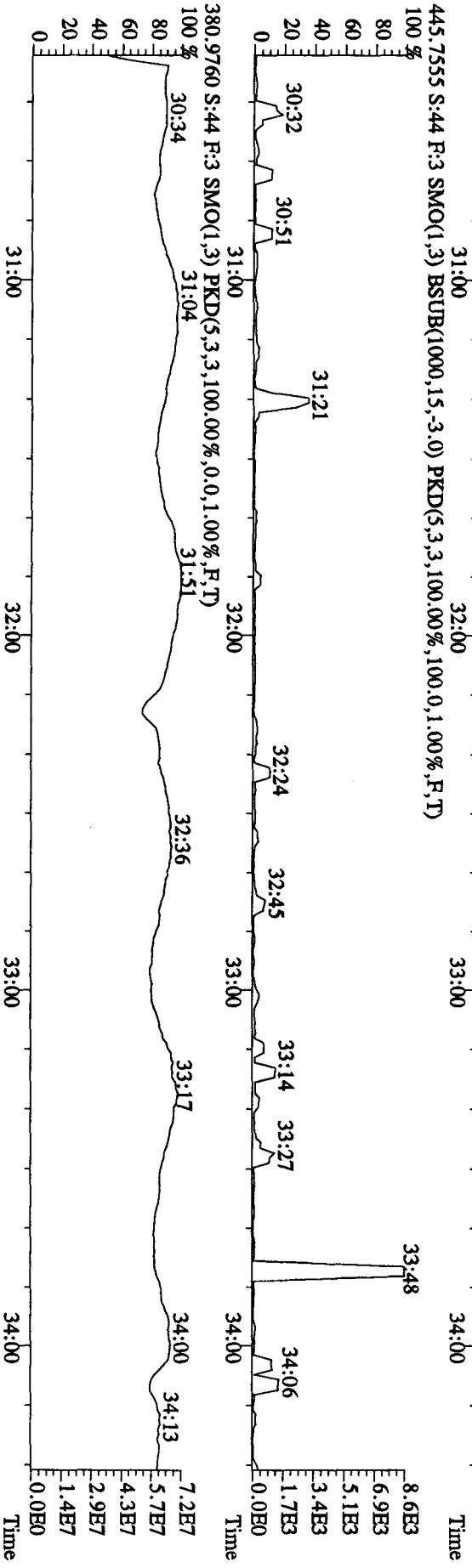
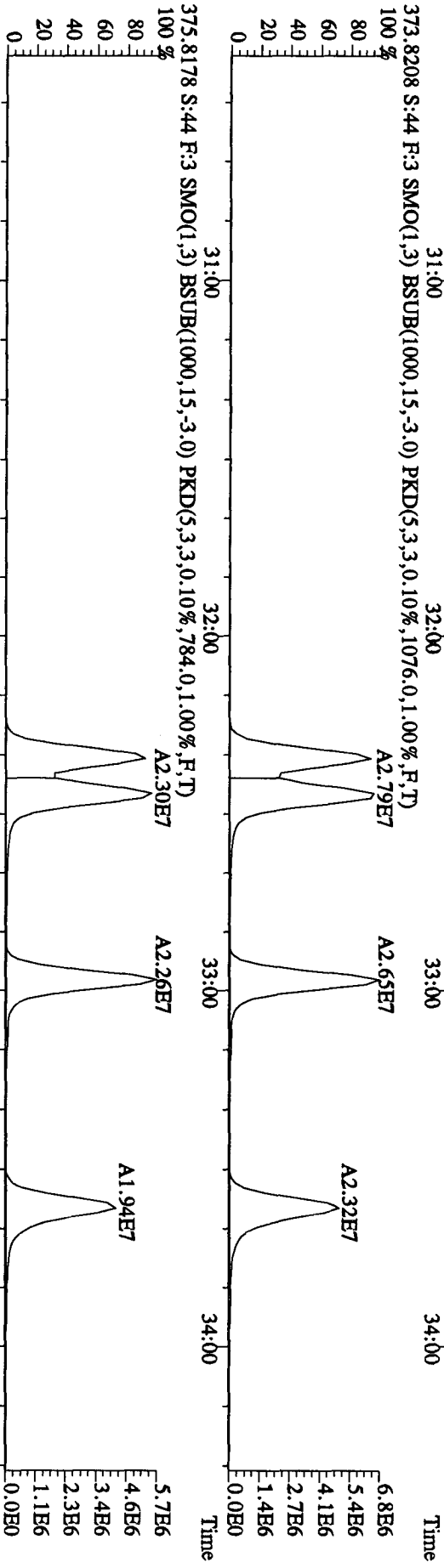
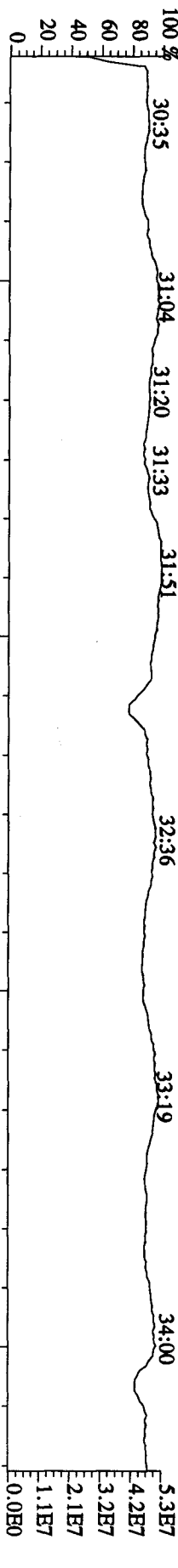


409.7974 S:44 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100,0.0%,128,0,1.00%,F,T)

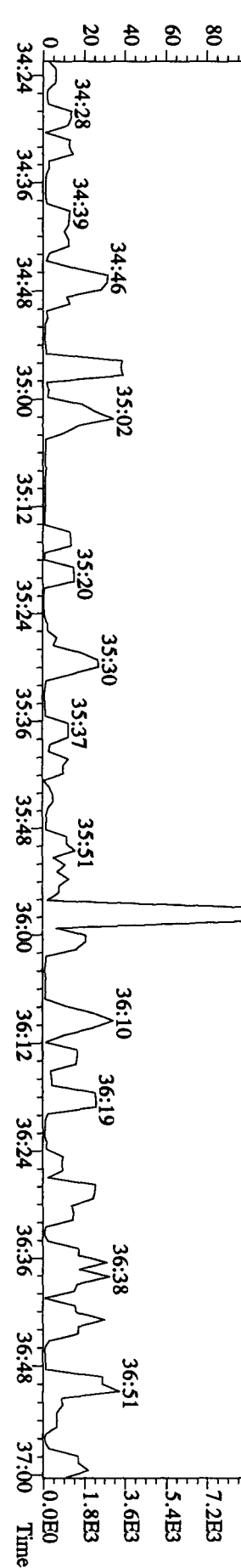
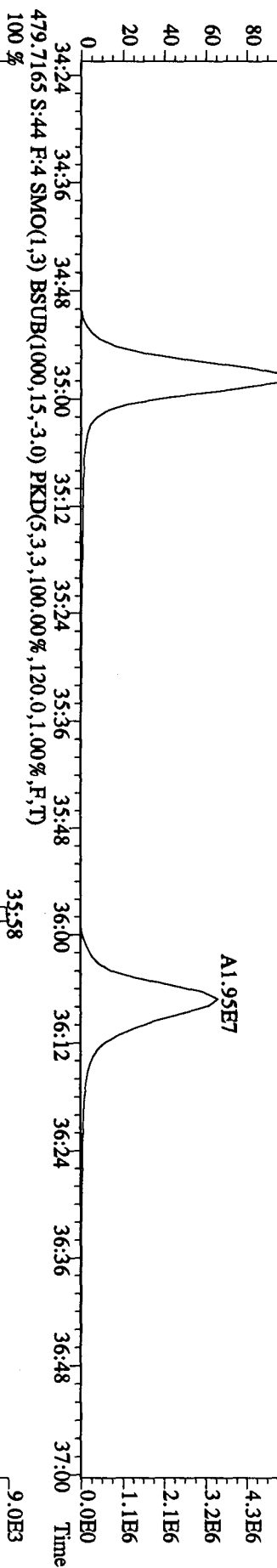
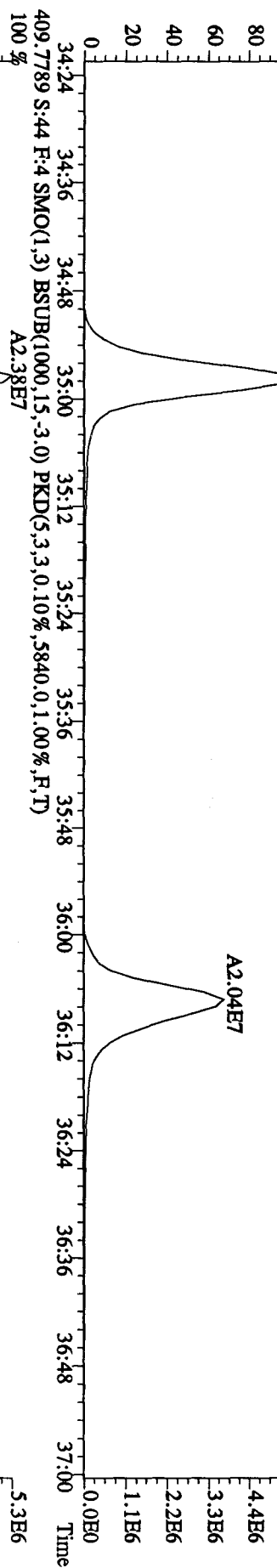
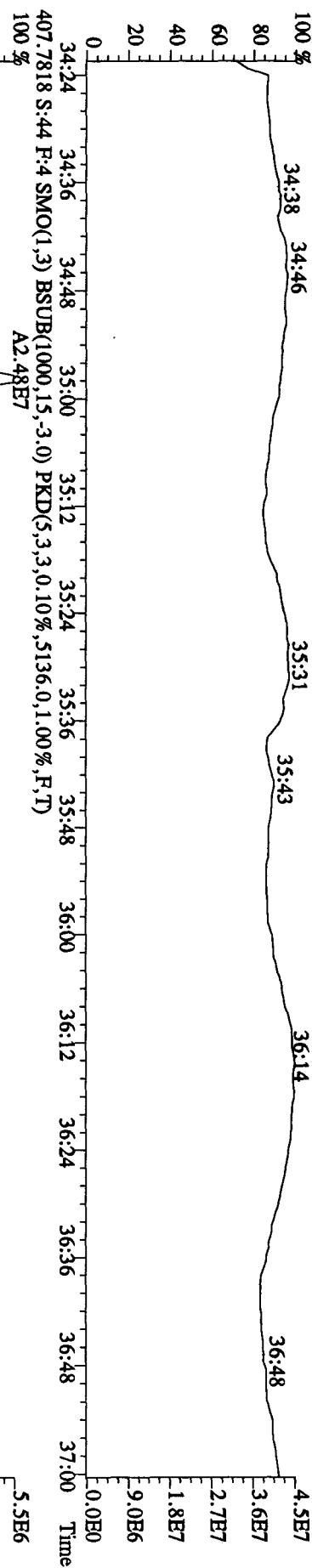


File:14OC104D5 #1-287 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-Ultimate

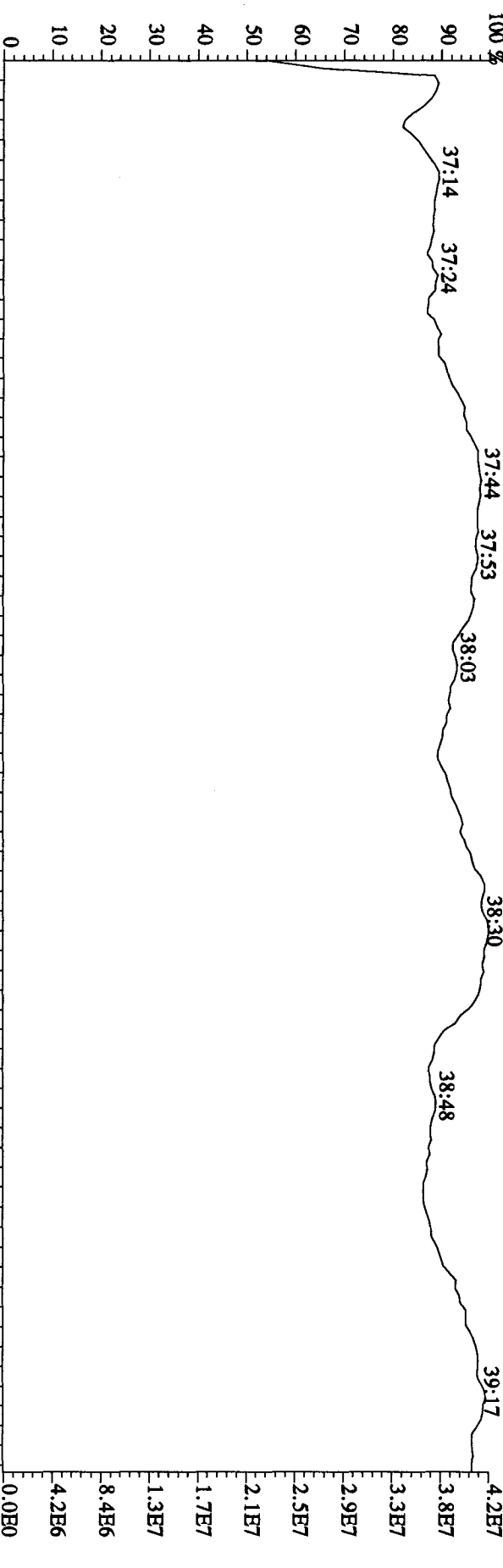
Sample#44 Text:L79L2-1-AD :G0J090500-7DCS Exp:DIOXINRES



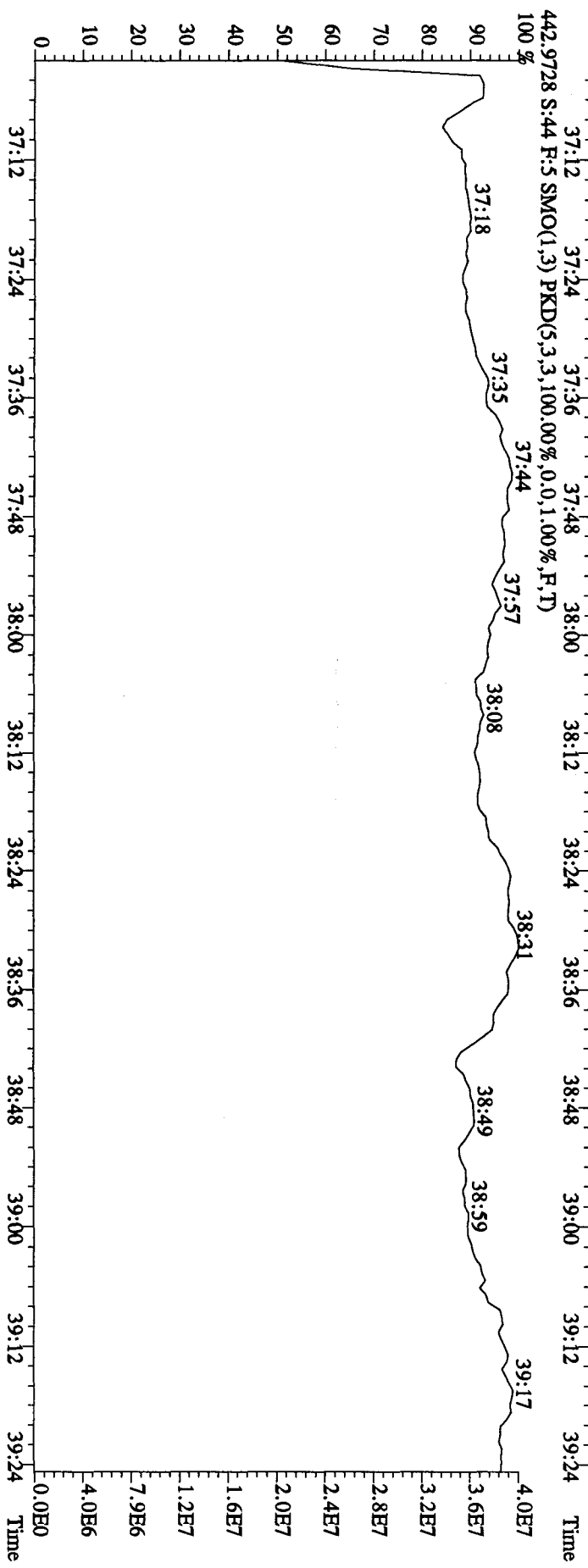
File: 140C104D5 #1-200 Acq:15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#44 Text:L79L2-1-AD :G0J090500-7DCS Exp:DIOXINRES  
 430.9728 S:44 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 14OC104D5 #1-193 Acq: 15-OCT-2010 18:02:10 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#44 Text: L79L2-1-AD : G01090500-7DCS Exp: DIOXINRES  
 454.9728 S:44 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:44 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



Run text: L78WG-1-AA Sample text: L78WG-1-AA :G0J090500-7  
 Run #10 Filename: 14OC104D5 S: 35 I: 1 Results: 14OC104D5TO9SY  
 Acquired: 15-OCT-10 11:20:46 Processed: 15-OCT-10 18:33:11  
 Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

*10/26 10/18/10*

| Name                    | Resp      | RA     | RT    | RRF  | Conc     | EDL   | Rec   | M |
|-------------------------|-----------|--------|-------|------|----------|-------|-------|---|
| 13C-1,2,3,4-TCDD        | 116283200 | 0.81 y | 20:05 | -    | 69.633   | -     | -     | n |
| 13C-2,3,7,8-TCDF        | 145825100 | 0.78 y | 19:29 | 1.23 | 4080.395 | 3.598 | 102.0 | n |
| 2,3,7,8-TCDF            | 9114910   | 0.81 y | 19:31 | 0.99 | 251.402  | 2.505 | -     | n |
| Total TCDF              | 46491423  | 0.90 n | 16:43 | 0.99 | 1282.301 | 2.505 | -     | n |
| 13C-2,3,7,8-TCDD        | 105989200 | 0.78 y | 20:18 | 0.91 | 4028.370 | 6.643 | 100.7 | n |
| 2,3,7,8-TCDD            | 133678    | 0.59 n | 20:19 | 0.98 | 5.130    | 1.955 | -     | y |
| Total TCDD              | 3785875   | 0.81 y | 17:44 | 0.98 | 145.280  | 1.955 | -     | y |
| 37Cl-2,3,7,8-TCDD       | 57674600  | 1.00 y | 20:19 | 1.33 | 1641.408 | 2.591 | 102.6 | n |
| 13C-1,2,3,7,8-PeCDF     | 112165600 | 1.55 y | 25:23 | 0.88 | 4404.270 | 9.296 | 110.1 | n |
| 1,2,3,7,8-PeCDF         | 5761470   | 1.53 y | 25:25 | 1.08 | 190.838  | 6.316 | -     | n |
| 2,3,4,7,8-PeCDF         | 2966990   | 1.63 y | 27:00 | 1.05 | 101.194  | 6.503 | -     | n |
| Total F2 PeCDF          | 41247198  | 1.56 y | 23:34 | 1.06 | 1384.913 | 6.408 | -     | n |
| Total F1 PeCDF          | 1977542   | 0.26 n | 17:04 | 1.06 | 66.461   | 2.525 | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 76227100  | 1.58 y | 27:50 | 0.66 | 3967.949 | 2.417 | 99.2  | n |
| 1,2,3,7,8-PeCDD         | 314319    | 1.48 y | 27:51 | 0.93 | 17.822   | 4.821 | -     | n |
| Total PeCDD             | 3126665   | 1.49 y | 24:01 | 0.93 | 177.286  | 4.821 | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 74939000  | 1.29 y | 33:26 | -    | 63.293   | -     | -     | n |
| 13C-1,2,3,4,7,8-HxCDF   | 70693900  | 0.52 y | 32:20 | 1.04 | 3611.657 | 0.916 | 90.3  | n |
| 1,2,3,4,7,8-HxCDF       | 5551880   | 1.21 y | 32:21 | 1.22 | 258.073  | 4.339 | -     | y |
| 1,2,3,6,7,8-HxCDF       | 5796780   | 1.20 y | 32:27 | 1.28 | 255.919  | 4.121 | -     | y |
| 2,3,4,6,7,8-HxCDF       | 1503361   | 1.19 y | 32:57 | 1.23 | 68.965   | 4.282 | -     | y |
| 1,2,3,7,8,9-HxCDF       | 746009    | 1.11 y | 33:36 | 1.10 | 38.437   | 4.810 | -     | y |
| Total HxCDF             | 41357688  | 1.21 y | 31:08 | 1.21 | 1922.057 | 4.374 | -     | y |
| 13C-1,2,3,6,7,8-HxCDD   | 60511400  | 1.27 y | 33:10 | 0.83 | 3887.743 | 1.230 | 97.2  | n |
| 1,2,3,4,7,8-HxCDD       | 183415    | 1.29 y | 33:06 | 1.04 | 11.690   | 2.153 | -     | y |
| 1,2,3,6,7,8-HxCDD       | 388252    | 1.38 y | 33:11 | 1.16 | 22.072   | 1.921 | -     | y |
| 1,2,3,7,8,9-HxCDD       | 354011    | 1.34 y | 33:26 | 1.18 | 19.803   | 1.890 | -     | y |
| Total HxCDD             | 2807254   | 1.21 y | 31:50 | 1.13 | 163.904  | 1.981 | -     | y |
| 13C-1,2,3,4,6,7,8-HpCDF | 61768400  | 0.44 y | 34:57 | 0.91 | 3622.983 | 9.474 | 90.6  | n |
| 1,2,3,4,6,7,8-HpCDF     | 21425300  | 1.05 y | 34:58 | 1.35 | 1030.975 | 2.966 | -     | n |
| 1,2,3,4,7,8,9-HpCDF     | 7047120   | 1.07 y | 36:07 | 1.09 | 417.360  | 3.651 | -     | n |
| Total HpCDF             | 40890314  | 1.05 y | 34:58 | 1.22 | 2107.693 | 3.273 | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDD | 58304000  | 1.06 y | 35:47 | 0.83 | 3764.887 | 6.949 | 94.1  | n |
| 1,2,3,4,6,7,8-HpCDD     | 1328131   | 1.04 y | 35:47 | 1.07 | 85.022   | 1.350 | -     | n |
| Total HpCDD             | 2037600   | 4.78 n | 34:57 | 1.07 | 130.439  | 1.350 | -     | n |
| 13C-OCDD                | 79130800  | 0.88 y | 38:22 | 0.62 | 6813.610 | 3.471 | 85.2  | n |
| OCDF                    | 34472800  | 0.87 y | 38:30 | 1.37 | 2543.350 | 4.222 | -     | n |



OCDD 1090182 0.85 y 38:22 1.20

B 91.899 /

2.746

- n

Run text: L78WG-1-AA Sample text: L78WG-1-AA :G0J090500-7  
 Run #10 Filename: 14OC104D5 S: 35 I: 1 Results: 14OC104D5TO9  
 Acquired: 15-OCT-10 11:20:46 Processed: 15-OCT-10 14:57:35  
 Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

| Name                    | Resp      | RA     | RT    | RRF  | Conc                         | EDL              | Rec   | M |
|-------------------------|-----------|--------|-------|------|------------------------------|------------------|-------|---|
| 13C-1,2,3,4-TCDD        | 116283200 | 0.81 y | 20:05 | -    | 69.633                       | -                | -     | n |
| 13C-2,3,7,8-TCDF        | 145825100 | 0.78 y | 19:29 | 1.23 | 4080.395                     | 3.598            | 102.0 | n |
| 2,3,7,8-TCDF            | 9114910   | 0.81 y | 19:31 | 0.99 | 251.402                      | 2.505            | -     | n |
| Total TCDF              | 46491423  | 0.90 n | 16:43 | 0.99 | 1282.301                     | 2.505            | -     | n |
| 13C-2,3,7,8-TCDD        | 105989200 | 0.78 y | 20:18 | 0.91 | 4028.370                     | 6.643            | 100.7 | n |
| 2,3,7,8-TCDD            | 133678    | 0.59 n | 20:19 | 0.98 | 5.130                        | 1.955            | -     | n |
| Total TCDD              | 3706104   | 0.81 y | 17:44 | 0.98 | <del>142.218</del> 141.317   | 1.955            | -     | n |
| 37Cl-2,3,7,8-TCDD       | 57674600  | 1.00 y | 20:19 | 1.33 | 1641.408                     | 2.591            | 102.6 | n |
| 13C-1,2,3,7,8-PeCDF     | 112165600 | 1.55 y | 25:23 | 0.88 | 4404.270                     | 9.296            | 110.1 | n |
| 1,2,3,7,8-PeCDF         | 5761470   | 1.53 y | 25:25 | 1.08 | 190.838                      | 6.316            | -     | n |
| 2,3,4,7,8-PeCDF         | 2966990   | 1.63 y | 27:00 | 1.05 | 101.194                      | 6.503            | -     | n |
| Total F2 PeCDF          | 41247198  | 1.56 y | 23:34 | 1.06 | <del>1384.913</del>          | 6.408            | -     | n |
| Total F1 PeCDF          | 1977542   | 0.26 n | 17:04 | 1.06 | <del>66.461</del> 1449.717   | <del>2.525</del> | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 76227100  | 1.58 y | 27:50 | 0.66 | 3967.949                     | 2.417            | 99.2  | n |
| 1,2,3,7,8-PeCDD         | 314319    | 1.48 y | 27:51 | 0.93 | 17.822                       | 4.821            | -     | n |
| Total PeCDD             | 3126665   | 1.49 y | 24:01 | 0.93 | <del>177.286</del> 1649.778  | 4.821            | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 74939000  | 1.29 y | 33:26 | -    | 63.293                       | -                | -     | n |
| 13C-1,2,3,4,7,8-HxCDF   | 70693900  | 0.52 y | 32:20 | 1.04 | 3611.657                     | 0.916            | 90.3  | n |
| 1,2,3,4,7,8-HxCDF       | 9224740   | 1.17 y | 32:21 | 1.22 | 428.802                      | 4.339            | -     | n |
| 1,2,3,6,7,8-HxCDF       | 5791270   | 1.21 y | 32:27 | 1.28 | 255.675                      | 4.121            | -     | n |
| 2,3,4,6,7,8-HxCDF       | 3272450   | 1.22 y | 32:55 | 1.23 | 150.121                      | 4.282            | -     | n |
| 1,2,3,7,8,9-HxCDF       | 2242710   | 1.16 y | 33:40 | 1.10 | 115.554                      | 4.810            | -     | n |
| Total HxCDF             | 41416674  | 2.10 n | 30:39 | 1.21 | <del>1928.730</del>          | 4.374            | -     | n |
| 13C-1,2,3,6,7,8-HxCDD   | 60511300  | 1.27 y | 33:10 | 0.83 | 3887.736                     | 1.230            | 97.2  | n |
| 1,2,3,4,7,8-HxCDD       | 580199    | 1.37 y | 33:11 | 1.04 | 36.978                       | 2.153            | -     | n |
| 1,2,3,6,7,8-HxCDD       | 580199    | 1.37 y | 33:11 | 1.16 | 32.984                       | 1.921            | -     | n |
| 1,2,3,7,8,9-HxCDD       | 440364    | 1.30 y | 33:26 | 1.18 | 24.633                       | 1.890            | -     | n |
| Total HxCDD             | 2813709   | 1.21 y | 31:50 | 1.13 | 162.771                      | 1.981            | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDF | 61768400  | 0.44 y | 34:57 | 0.91 | 3622.983                     | 9.474            | 90.6  | n |
| 1,2,3,4,6,7,8-HpCDF     | 21425300  | 1.05 y | 34:58 | 1.35 | 1030.975                     | 2.966            | -     | n |
| 1,2,3,4,7,8,9-HpCDF     | 7047120   | 1.07 y | 36:07 | 1.09 | 417.360                      | 3.651            | -     | n |
| Total HpCDF             | 40890314  | 1.05 y | 34:58 | 1.22 | <del>2107.693</del> 2098.224 | 3.273            | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDD | 58304000  | 1.06 y | 35:47 | 0.83 | 3764.887                     | 6.949            | 94.1  | n |
| 1,2,3,4,6,7,8-HpCDD     | 1328131   | 1.04 y | 35:47 | 1.07 | 85.022                       | 1.350            | -     | n |
| Total HpCDD             | 2037600   | 4.78 n | 34:57 | 1.07 | <del>130.479</del> 126.978   | 1.350            | -     | n |
| 13C-OCDD                | 79130800  | 0.88 y | 38:22 | 0.62 | 6813.610                     | 3.471            | 85.2  | n |
| OCDF                    | 34472800  | 0.87 y | 38:30 | 1.37 | 2543.350                     | 4.222            | -     | n |
| OCDD                    | 1090182   | 0.85 y | 38:22 | 1.20 | 91.899                       | 2.746            | -     | n |

Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:16  
 Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46  
 Tables: Run: 14OC104D5 Analyte: T09 Cal: T090721104D5 Results: 14OC104D5

Amount: 641.151 of which 125.701 named and 515.449 unnamed  
 Conc: 1282.301 of which 251.402 named and 1030.899 unnamed

| Name         | #  | R.T.  | Ratio   | Conc.   | Area               | S/N                | >? | Mod? |
|--------------|----|-------|---------|---------|--------------------|--------------------|----|------|
|              | 1  | 16:43 | 0.904 n | 29.711  | 550270<br>608596   | 66.804<br>34.401   | y  | n    |
|              | 2  | 17:05 | 0.735 y | 10.568  | 162332<br>220807   | 21.383<br>12.662   | y  | n    |
|              | 3  | 17:16 | 0.734 y | 13.187  | 202385<br>275710   | 22.350<br>15.520   | y  | n    |
|              | 4  | 17:35 | 0.787 y | 221.243 | 3532570<br>4488860 | 354.740<br>204.906 | y  | n    |
|              | 5  | 17:51 | 0.819 y | 94.156  | 1536530<br>1877210 | 130.924<br>72.563  | y  | n    |
|              | 6  | 18:11 | 0.803 y | 89.367  | 1443260<br>1796840 | 93.831<br>54.089   | y  | n    |
|              | 7  | 18:28 | 0.838 y | 117.979 | 1950520<br>2326960 | 193.547<br>99.995  | y  | n    |
|              | 8  | 18:46 | 0.888 n | 113.930 | 2073170<br>2333710 | 165.764<br>92.381  | y  | n    |
|              | 9  | 18:53 | 0.712 y | 107.348 | 1618960<br>2273080 | 158.741<br>93.698  | y  | n    |
|              | 10 | 19:05 | 0.790 y | 132.678 | 2123180<br>2687210 | 229.326<br>123.845 | y  | n    |
|              | 11 | 19:19 | 0.832 y | 33.734  | 555534<br>667541   | 45.623<br>24.874   | y  | n    |
| 2,3,7,8-TCDF | 12 | 19:31 | 0.805 y | 251.402 | 4065490<br>5049420 | 369.373<br>196.253 | y  | n    |
|              | 13 | 20:00 | 1.012 n | 27.231  | 564510<br>557790   | 56.172<br>26.953   | y  | n    |
|              | 14 | 20:16 | 0.924 n | 17.282  | 326933<br>353996   | 23.941<br>14.376   | y  | n    |
|              | 15 | 20:33 | 0.933 n | 9.344   | 178511<br>191397   | 17.869<br>9.424    | y  | n    |

16 21:40 0.847 y 13.143 218566 19.284 y n  
 257942 9.187 y n

Run Text: L78WG-1-AA Sample text: L78WG-1-AA :G0J090500-7

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:12  
 Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 71.109 of which 2.565 named and 68.544 unnamed  
 Conc: 142.218 of which 5.130 named and 137.089 unnamed

| Name         | #  | R.T.  | Ratio   | Conc.            | Area             | S/N              | >? | Mod? |
|--------------|----|-------|---------|------------------|------------------|------------------|----|------|
|              | 1  | 17:44 | 0.811 y | 16.542           | 193021<br>238051 | 26.373<br>31.169 | y  | n    |
|              | 2  | 18:05 | 0.704 y | 52.975           | 570548<br>809939 | 88.278<br>92.255 | y  | n    |
|              | 3  | 18:21 | 0.734 y | 5.544            | 61153<br>83327   | 6.612<br>9.195   | y  | n    |
|              | 4  | 19:00 | 0.834 y | 19.448           | 230522<br>276269 | 30.960<br>29.448 | y  | n    |
|              | 5  | 19:16 | 0.734 y | 11.018           | 121492<br>165623 | 9.180<br>11.887  | y  | n    |
|              | 6  | 19:43 | 0.922 n | 5.136            | 69716<br>75618   | 11.664<br>9.229  | y  | n    |
|              | 7  | 20:12 | 1.133 n | 17.999           | 300244<br>264990 | 30.469<br>22.194 | y  | n    |
| 2,3,7,8-TCDD | 8  | 20:19 | 0.589 n | 5.130            | 58154<br>98699   | 10.015<br>11.831 | y  | n    |
|              | 9  | 20:28 | 0.691 y | 3.044            | 32412<br>46903   | 3.952<br>4.083   | y  | n    |
|              | 10 | 20:44 | 0.804 y | 4.483            | 52059<br>64766   | 6.354<br>6.400   | y  | n    |
|              | 11 | 21:33 | 0.429 n | <del>0.585</del> | 6630<br>15439    | 1.639<br>2.447   | n  | n    |
|              | 12 | 21:41 | 0.232 n | <del>0.316</del> | 3578<br>15439    | 0.929<br>2.447   | n  | n    |

See P 2A

~~141.317~~

Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? yes #Hom:10  
 Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 72.640 of which 2.565 named and 70.075 unnamed  
 Conc: 145.280 of which 5.130 named and 140.150 unnamed

| Name         | #  | R.T.  | Ratio   | Conc.  | Area             | S/N              | >? | Mod? |
|--------------|----|-------|---------|--------|------------------|------------------|----|------|
|              | 1  | 17:44 | 0.811 y | 16.542 | 193021<br>238051 | 26.373<br>31.169 | y  | n    |
|              | 2  | 18:05 | 0.704 y | 52.975 | 570548<br>809940 | 88.278<br>92.255 | y  | n    |
|              | 3  | 18:21 | 0.734 y | 5.544  | 61153<br>83327   | 6.612<br>9.195   | y  | n    |
|              | 4  | 19:00 | 0.834 y | 19.448 | 230522<br>276269 | 30.960<br>29.448 | y  | n    |
|              | 5  | 19:16 | 0.734 y | 11.018 | 121492<br>165623 | 9.180<br>11.887  | y  | n    |
|              | 6  | 19:43 | 0.922 n | 5.136  | 69716<br>75618   | 11.664<br>9.229  | y  | n    |
|              | 7  | 20:12 | 0.929 n | 21.960 | 300244<br>323315 | 30.469<br>22.226 | y  | n    |
| 2,3,7,8-TCDD | 8  | 20:19 | 0.588 n | 5.130  | 58154<br>98946   | 10.015<br>11.863 | y  | n    |
|              | 9  | 20:28 | 0.691 y | 3.044  | 32412<br>46903   | 3.952<br>4.083   | y  | n    |
|              | 10 | 20:44 | 0.804 y | 4.483  | 52059<br>64766   | 6.354<br>6.400   | y  | n    |

P2A

Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:13  
 Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 692.457 of which 146.016 named and 546.440 unnamed  
 Conc: 1384.913 of which 292.032 named and 1092.881 unnamed

| Name            | #  | R.T.  | Ratio   | Conc.   | Area    | S/N     | >? | Mod? |
|-----------------|----|-------|---------|---------|---------|---------|----|------|
|                 | 1  | 23:34 | 1.561 y | 80.739  | 1464240 | 54.058  | y  | n    |
|                 |    |       |         |         | 938156  | 36.769  | y  | n    |
|                 | 2  | 23:48 | 1.510 y | 397.254 | 7111020 | 194.501 | y  | n    |
|                 |    |       |         |         | 4709310 | 136.970 | y  | n    |
|                 | 3  | 24:05 | 1.651 y | 59.298  | 1098780 | 31.990  | y  | n    |
|                 |    |       |         |         | 665648  | 20.570  | y  | n    |
|                 | 4  | 24:23 | 1.437 y | 52.435  | 920036  | 24.933  | y  | n    |
|                 |    |       |         |         | 640182  | 18.823  | y  | n    |
|                 | 5  | 24:51 | 1.565 y | 198.173 | 3598030 | 79.767  | y  | n    |
|                 |    |       |         |         | 2298610 | 54.370  | y  | n    |
|                 | 6  | 25:15 | 1.525 y | 67.398  | 1211350 | 43.179  | y  | n    |
|                 |    |       |         |         | 794073  | 30.301  | y  | n    |
| 1,2,3,7,8-PeCDF | 7  | 25:25 | 1.527 y | 190.838 | 3481770 | 102.729 | y  | n    |
|                 |    |       |         |         | 2279700 | 71.896  | y  | n    |
|                 | 8  | 25:45 | 1.469 y | 40.344  | 714326  | 21.299  | y  | n    |
|                 |    |       |         |         | 486112  | 16.176  | y  | n    |
|                 | 9  | 26:03 | 1.634 y | 105.945 | 1955600 | 40.696  | y  | n    |
|                 |    |       |         |         | 1196800 | 25.351  | y  | n    |
| 2,3,4,7,8-PeCDF | 10 | 27:00 | 1.630 y | 101.194 | 1838760 | 46.351  | y  | n    |
|                 |    |       |         |         | 1128230 | 30.462  | y  | n    |
|                 | 11 | 27:25 | 1.709 y | 54.899  | 1030420 | 20.387  | y  | n    |
|                 |    |       |         |         | 603089  | 12.088  | y  | n    |
|                 | 12 | 28:01 | 1.596 y | 16.662  | 304805  | 8.060   | y  | n    |
|                 |    |       |         |         | 190983  | 6.726   | y  | n    |
|                 | 13 | 29:22 | 1.546 y | 19.733  | 356587  | 7.573   | y  | n    |
|                 |    |       |         |         | 230581  | 4.796   | y  | n    |

Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:3  
 Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46

Amount: 33.230 of which \* named and 33.230 unnamed  
 Conc: 66.461 of which \* named and 66.461 unnamed

| Name | # | R.T.  | Ratio   | Conc.            | Area              | S/N               | >? | Mod? |
|------|---|-------|---------|------------------|-------------------|-------------------|----|------|
|      | 1 | 17:04 | 0.259 n | <del>0.343</del> | 6203<br>23925     | 1.613<br>2.934    | n  | n    |
|      | 2 | 21:58 | 1.491 y | 64.804           | 1154100<br>774145 | 156.822<br>63.567 | y  | n    |
|      | 3 | 22:19 | 1.212 n | <del>1.314</del> | 23762<br>19606    | 3.196<br>1.691    | y  | n    |

Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:11
Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46
Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 88.643 of which 8.911 named and 79.732 unnamed
Conc: 177.286 of which 17.822 named and 159.464 unnamed

Table with 8 columns: Name, #, R.T., Ratio, Conc., Area, S/N, >? Mod?. Contains 11 rows of data for PeCDD analysis.

164.978

Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:13
Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46
Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 964.365 of which 475.076 named and 489.289 unnamed
Conc: 1928.730 of which 950.152 named and 978.578 unnamed



| Name              | #  | R.T.  | Ratio | Conc. | Area    | S/N     | >?      | Mod? |
|-------------------|----|-------|-------|-------|---------|---------|---------|------|
|                   | 1  | 30:39 | 2.103 | n     | 0.982   | 19694   | 1.299   | n n  |
|                   |    |       |       |       |         | 9365    | 0.828   | n n  |
|                   | 2  | 30:48 | 0.970 | n     | 1.537   | 18160   | 0.804   | n n  |
|                   |    |       |       |       |         | 18721   | 2.651   | n n  |
|                   | 3  | 31:08 | 1.214 | y     | 225.325 | 2637110 | 104.694 | y n  |
|                   |    |       |       |       |         | 2171940 | 149.257 | y n  |
|                   | 4  | 31:20 | 1.164 | y     | 384.821 | 4417220 | 172.110 | y n  |
|                   |    |       |       |       |         | 3795910 | 264.234 | y n  |
|                   | 5  | 31:32 | 1.120 | y     | 27.073  | 305295  | 12.379  | y n  |
|                   |    |       |       |       |         | 272513  | 18.251  | y n  |
|                   | 6  | 31:43 | 1.167 | y     | 74.183  | 852701  | 34.123  | y n  |
|                   |    |       |       |       |         | 730569  | 51.726  | y n  |
|                   | 7  | 31:56 | 1.152 | y     | 55.484  | 633969  | 26.726  | y n  |
|                   |    |       |       |       |         | 550220  | 41.874  | y n  |
| 1,2,3,4,7,8-HxCDF | 8  | 32:21 | 1.170 | y     | 428.802 | 4974370 | 227.666 | y n  |
|                   |    |       |       |       |         | 4250370 | 330.747 | y n  |
| 1,2,3,6,7,8-HxCDF | 9  | 32:27 | 1.205 | y     | 255.675 | 3165100 | 161.256 | y n  |
|                   |    |       |       |       |         | 2626170 | 220.955 | y n  |
|                   | 10 | 32:34 | 1.267 | y     | 105.565 | 1259270 | 56.239  | y n  |
|                   |    |       |       |       |         | 993775  | 73.611  | y n  |
|                   | 11 | 32:46 | 1.142 | y     | 103.606 | 1179140 | 42.128  | y n  |
|                   |    |       |       |       |         | 1032090 | 65.532  | y n  |
| 2,3,4,6,7,8-HxCDF | 12 | 32:55 | 1.220 | y     | 150.121 | 1798210 | 59.247  | y n  |
|                   |    |       |       |       |         | 1474240 | 86.463  | y n  |
| 1,2,3,7,8,9-HxCDF | 13 | 33:40 | 1.156 | y     | 115.554 | 1202730 | 37.582  | y n  |
|                   |    |       |       |       |         | 1039980 | 56.929  | y n  |

See P6A

Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:14  
 Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 961.028 of which 310.697 named and 650.331 unnamed  
 Conc: 1922.057 of which 621.395 named and 1300.662 unnamed

| Name              | #  | R.T.  | Ratio   | Conc.   | Area               | S/N                | >? | Mod? |
|-------------------|----|-------|---------|---------|--------------------|--------------------|----|------|
|                   | 1  | 31:08 | 1.214 y | 225.325 | 2637110<br>2171940 | 104.694<br>149.257 | y  | n    |
|                   | 2  | 31:20 | 1.164 y | 384.822 | 4417230<br>3795910 | 172.110<br>264.234 | y  | n    |
|                   | 3  | 31:32 | 1.120 y | 27.073  | 305296<br>272513   | 12.379<br>18.251   | y  | n    |
|                   | 4  | 31:43 | 1.167 y | 74.183  | 852702<br>730568   | 34.123<br>51.726   | y  | n    |
|                   | 5  | 31:56 | 1.152 y | 55.484  | 633969<br>550219   | 26.726<br>41.874   | y  | n    |
|                   | 6  | 32:19 | 1.111 y | 172.383 | 1936410<br>1742720 | 163.489<br>250.763 | y  | y    |
| 1,2,3,4,7,8-HxCDF | 7  | 32:21 | 1.211 y | 258.073 | 3040820<br>2511060 | 227.661<br>330.979 | y  | y    |
| 1,2,3,6,7,8-HxCDF | 8  | 32:27 | 1.201 y | 255.919 | 3163250<br>2633530 | 161.250<br>221.186 | y  | y    |
|                   | 9  | 32:34 | 1.261 y | 105.682 | 1258130<br>997414  | 56.233<br>73.843   | y  | y    |
|                   | 10 | 32:46 | 1.131 y | 103.747 | 1175110<br>1039130 | 42.040<br>65.763   | y  | y    |
| 2,3,4,6,7,8-HxCDF | 12 | 32:57 | 1.192 y | 68.965  | 817526<br>685835   | 48.873<br>71.689   | y  | y    |
| 1,2,3,7,8,9-HxCDF | 13 | 33:36 | 1.115 y | 38.437  | 393227<br>352782   | 30.302<br>41.261   | y  | y    |
|                   | 14 | 33:40 | 1.207 y | 70.234  | 819722<br>679266   | 37.686<br>56.849   | y  | y    |

PGA

Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:6  
 Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 81.385 of which 28.808 named and 52.577 unnamed  
 Conc: 162.771 of which 57.617 named and 105.154 unnamed

| Name              | # | R.T.  | Ratio   | Conc.  | Area             | S/N              | >? | Mod? |
|-------------------|---|-------|---------|--------|------------------|------------------|----|------|
|                   | 1 | 31:50 | 1.212 y | 12.378 | 115635<br>95444  | 20.525<br>12.249 | y  | n    |
|                   | 2 | 32:21 | 1.256 y | 52.603 | 499417<br>397608 | 87.998<br>53.101 | y  | n    |
|                   | 3 | 32:35 | 1.278 y | 37.883 | 362424<br>283582 | 65.504<br>38.985 | y  | n    |
|                   | 4 | 32:44 | 1.524 n | 2.289  | 26555<br>17427   | 5.294<br>3.130   | y  | n    |
| 1,2,3,6,7,8-HxCDD | 5 | 33:11 | 1.370 y | 32.984 | 335388<br>244811 | 43.479<br>25.566 | y  | n    |
| 1,2,3,7,8,9-HxCDD | 6 | 33:26 | 1.301 y | 24.633 | 248963<br>191401 | 44.751<br>23.350 | y  | n    |

*See P7A*

Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:6  
 Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 1053.847 of which 724.167 named and 329.679 unnamed  
 Conc: 2107.693 of which 1448.335 named and 659.358 unnamed

| Name                | # | R.T.  | Ratio   | Conc.    | Area                 | S/N                | >? | Mod? |
|---------------------|---|-------|---------|----------|----------------------|--------------------|----|------|
| 1,2,3,4,6,7,8-HpCDF | 1 | 34:58 | 1.054 y | 1030.975 | 10993100<br>10432200 | 1375.97<br>811.918 | y  | n    |
|                     | 2 | 35:09 | 1.147 y | 276.104  | 2778510<br>2421430   | 301.841<br>172.968 | y  | n    |
|                     | 3 | 35:16 | 1.024 y | 373.786  | 3561260<br>3478360   | 416.103<br>238.236 | y  | n    |
|                     | 4 | 35:39 | 0.527 n | 3.974    | 38155<br>72358       | 6.276<br>3.423     | y  | n    |
|                     | 5 | 35:43 | 0.729 n | 5.495    | 52760                | 6.782              | y  | n    |

*2098.224*

Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? yes #Hom:8  
 Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 81.952 of which 26.782 named and 55.170 unnamed  
 Conc: 163.904 of which 53.564 named and 110.339 unnamed

| Name              | # | R.T.  | Ratio   | Conc.  | Area   | S/N >? | Mod? |
|-------------------|---|-------|---------|--------|--------|--------|------|
| ✓                 | 1 | 31:50 | 1.212 y | 12.378 | 115636 | 20.525 | y n  |
|                   |   |       |         |        | 95444  | 12.249 | y n  |
|                   | 2 | 32:21 | 1.256 y | 52.603 | 499417 | 87.998 | y n  |
|                   |   |       |         |        | 397608 | 53.101 | y n  |
|                   | 3 | 32:35 | 1.278 y | 37.883 | 362424 | 65.504 | y n  |
|                   |   |       |         |        | 283582 | 38.985 | y n  |
|                   | 4 | 32:44 | 1.524 n | 2.289  | 26555  | 5.294  | y n  |
|                   |   |       |         |        | 17427  | 3.130  | y n  |
| 1,2,3,4,7,8-HxCDD | 5 | 33:06 | 1.291 y | 11.690 | 103339 | 27.060 | y y  |
|                   |   |       |         |        | 80076  | 14.587 | y y  |
| 1,2,3,6,7,8-HxCDD | 6 | 33:11 | 1.376 y | 22.072 | 224821 | 43.507 | y y  |
|                   |   |       |         |        | 163431 | 25.506 | y y  |
|                   | 7 | 33:23 | 1.124 y | 5.186  | 46799  | 15.588 | y y  |
|                   |   |       |         |        | 41630  | 11.720 | y y  |
| 1,2,3,7,8,9-HxCDD | 8 | 33:26 | 1.339 y | 19.803 | 202639 | 44.779 | y y  |
|                   |   |       |         |        | 151372 | 23.417 | y y  |

P7A

|                     |   |       |       |   |         |         |         |   |   |
|---------------------|---|-------|-------|---|---------|---------|---------|---|---|
|                     |   |       |       |   | 72358   | 3.423   | y       | n |   |
| 1,2,3,4,7,8,9-HpCDF | 6 | 36:07 | 1.070 | y | 417.360 | 3641920 | 359.866 | y | n |
|                     |   |       |       |   |         | 3405200 | 193.651 | y | n |

Totals Results TestAmerica West Sacramento

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Run Text: L78WG-1-AA

Sample text: L78WG-1-AA :G0J090500-7

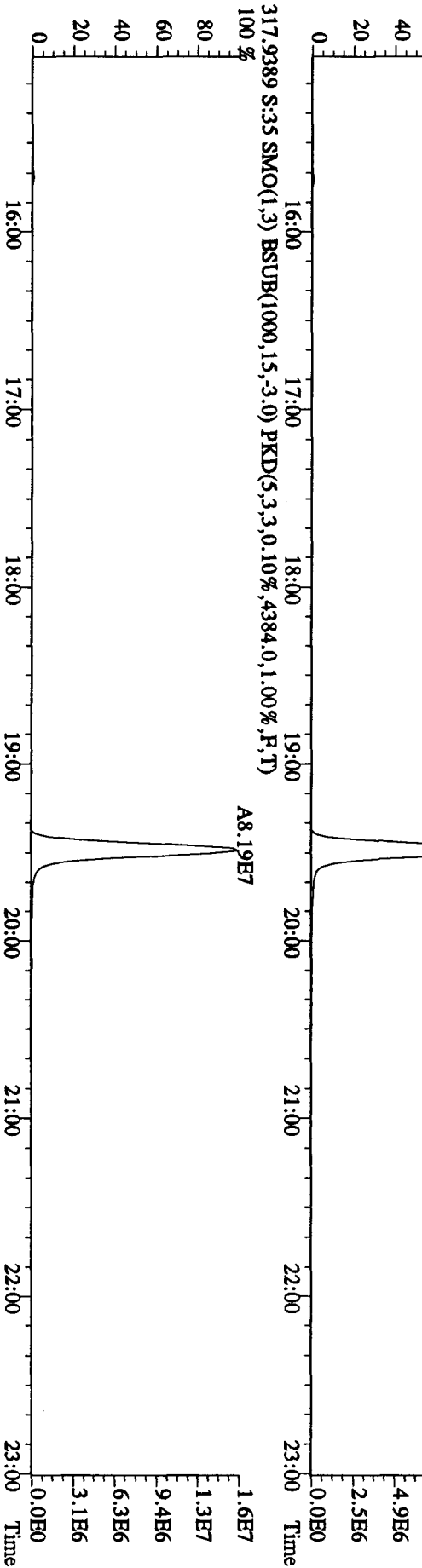
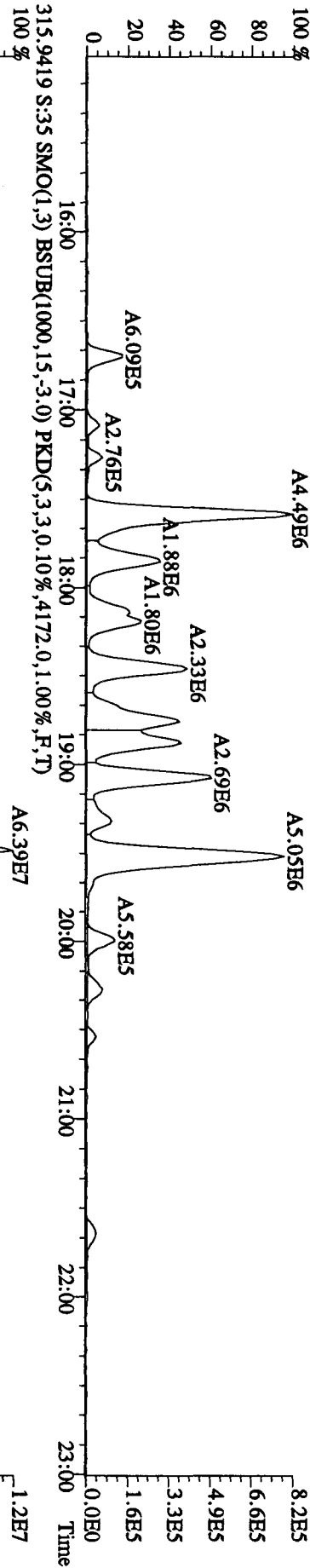
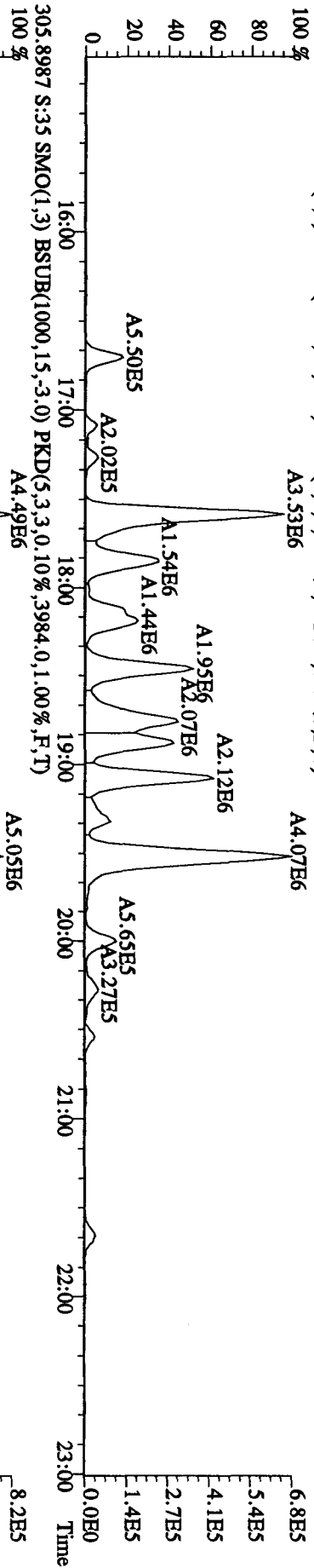
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4  
 Run: 10 File: 14OC104D5 S:35 Acq:15-OCT-10 11:20:46  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

|         |         |          |        |           |        |         |
|---------|---------|----------|--------|-----------|--------|---------|
| Amount: | 65.220  | of which | 42.511 | named and | 22.709 | unnamed |
| Conc:   | 130.439 | of which | 85.022 | named and | 45.418 | unnamed |

| Name                | # | R.T.  | Ratio | Conc. | Area             | S/N     | >?      | Mod? |
|---------------------|---|-------|-------|-------|------------------|---------|---------|------|
|                     | 1 | 34:57 | 4.783 | n     | <del>1.048</del> | 38370   | 8.579   | y n  |
|                     |   |       |       |       | 8022             | 3.574   |         | y n  |
|                     | 2 | 35:12 | 0.984 | y     | 41.957           | 325132  | 82.020  | y n  |
|                     |   |       |       |       | 330273           | 110.944 |         | y n  |
| 1,2,3,4,6,7,8-HpCDD | 3 | 35:47 | 1.039 | y     | 85.022           | 676680  | 158.859 | y n  |
|                     |   |       |       |       | 651451           | 215.646 |         | y n  |
|                     | 4 | 36:07 | 1.804 | n     | <del>2/413</del> | 33342   | 6.899   | y n  |
|                     |   |       |       |       | 18480            | 4.647   |         | y n  |

126-978

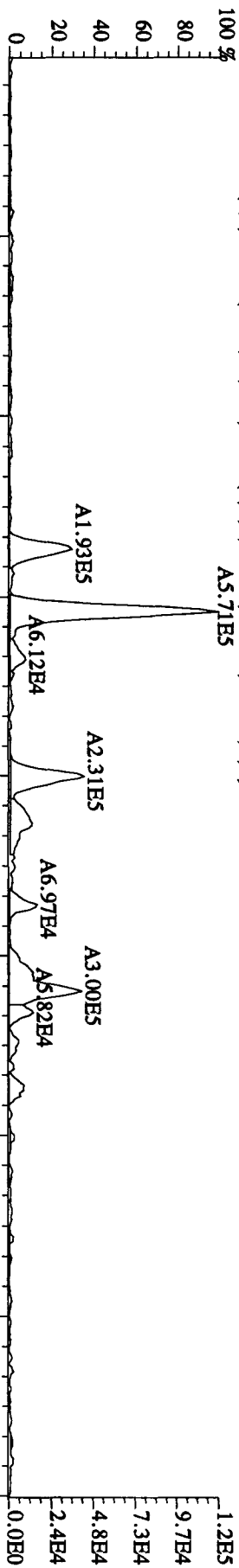
File: 140C104D5 #1-530 Acq: 15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#35 Text: L78WG-1-AA : G01090500-7 Exp: DIOXINES  
 303.9016 S:3.5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1824.0,1.00%,F,T)  
 100%



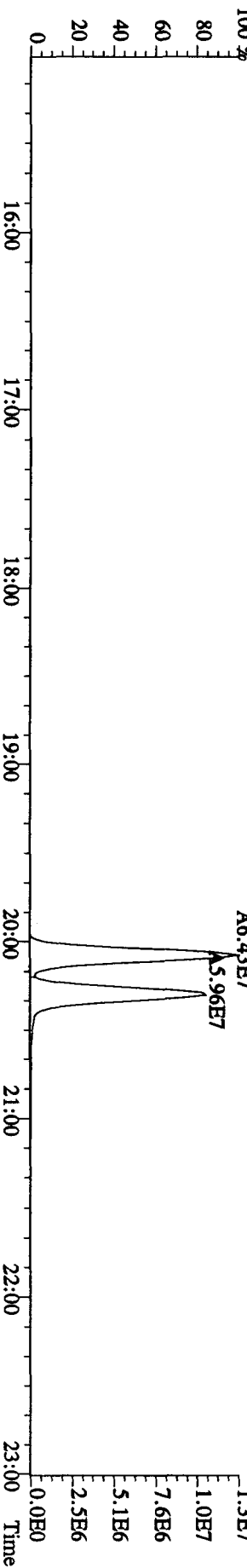
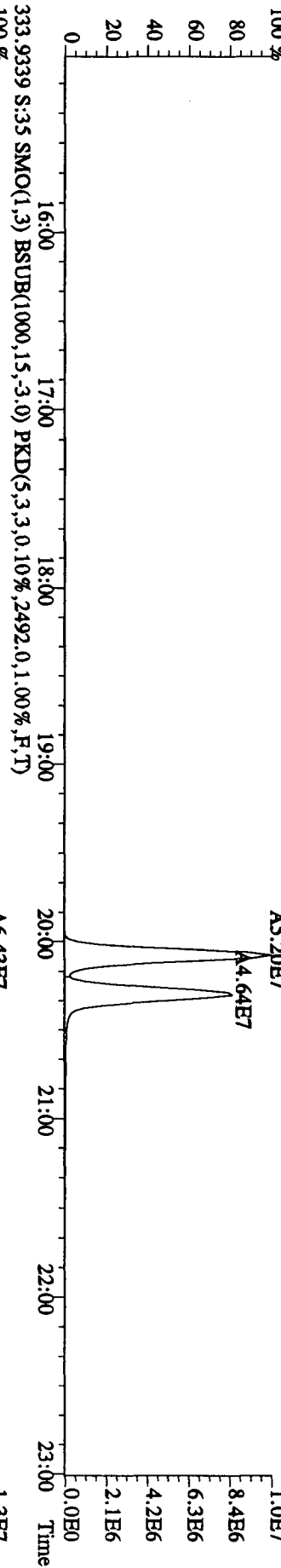
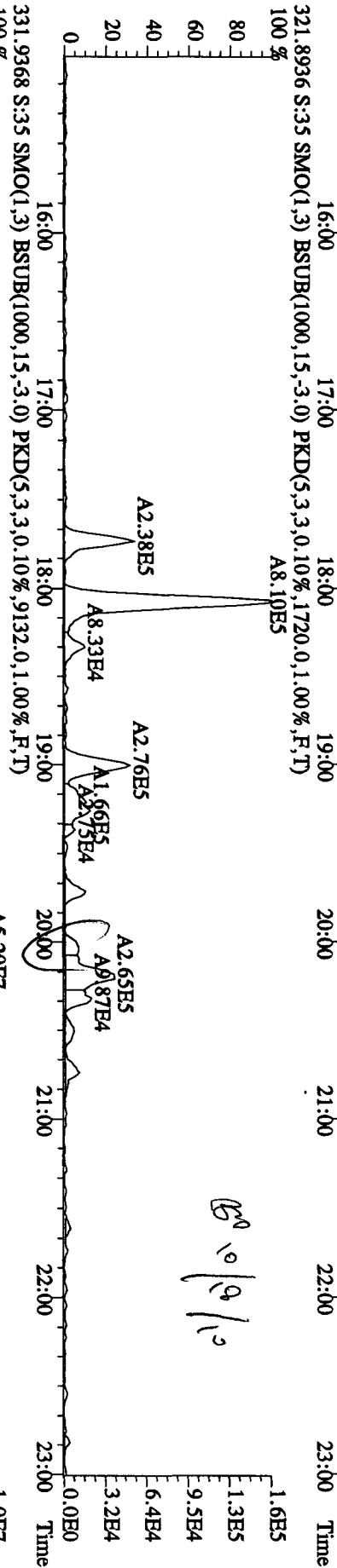
Sample#35 Text:L78WG-1-AA :G0J090500-7

319.8965 S:3.5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1364.0,1.00%,F,T)

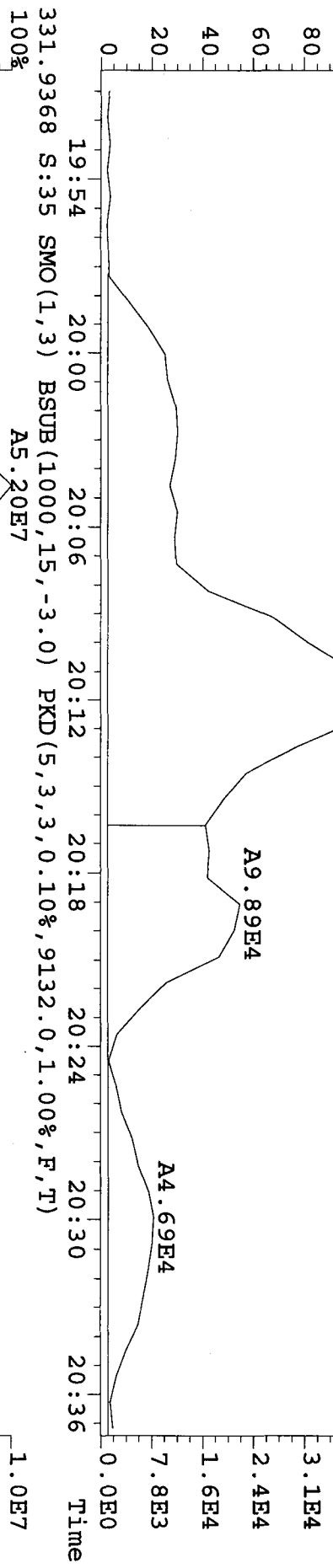
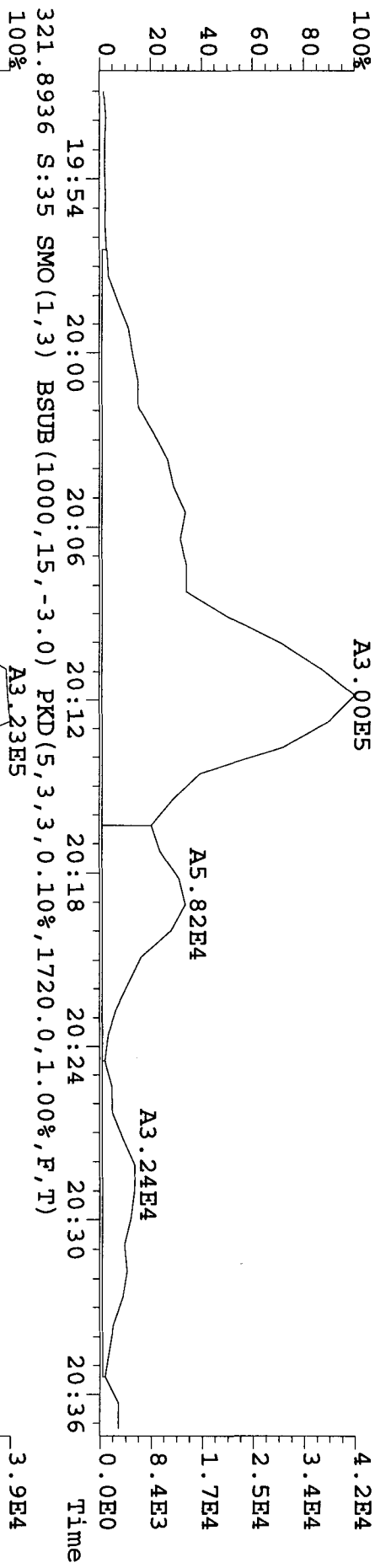
A5.71E5



60 10/9/10



File: 14OC104D5 #1-530 Acq: 15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#35 Text: L78WG-1-AA : G0J090500-7 Exp: DIOXINRES  
 319.8965 S:35 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1364.0,1.00%,F,T)  
 100% A3.00E5



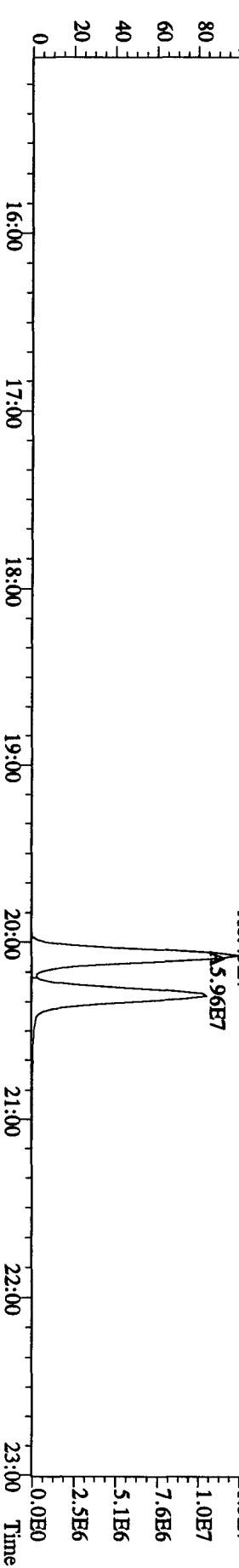
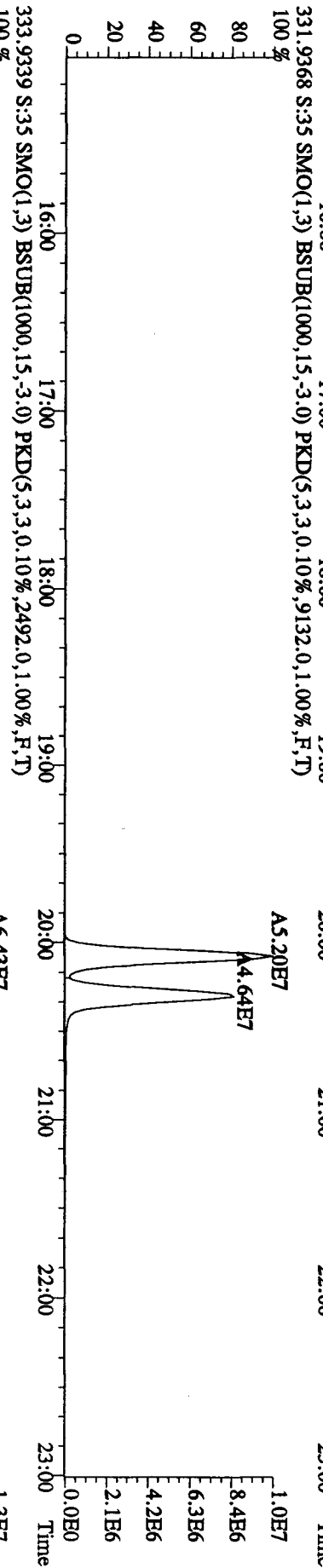
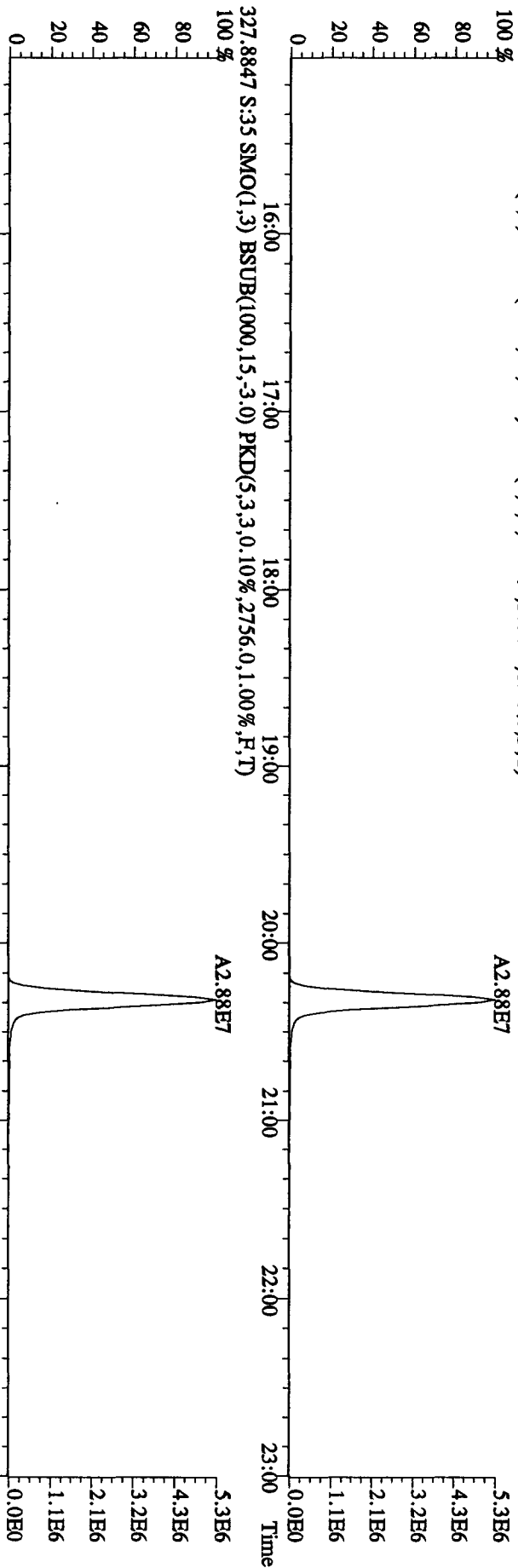
**Manual Edit Codes**

- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

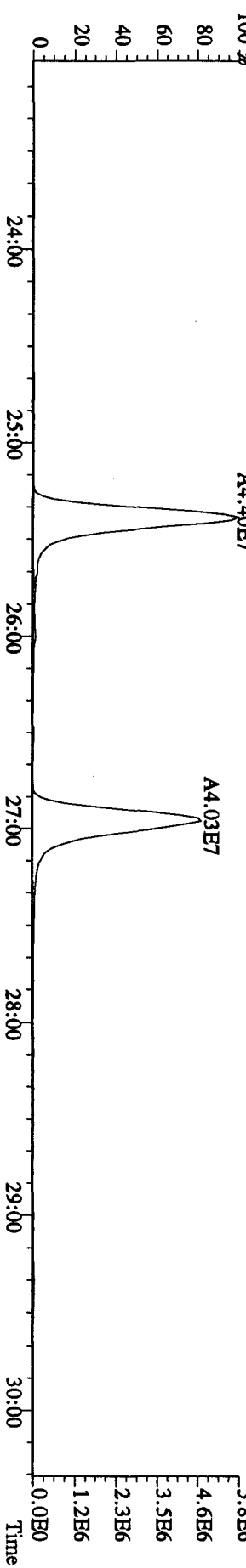
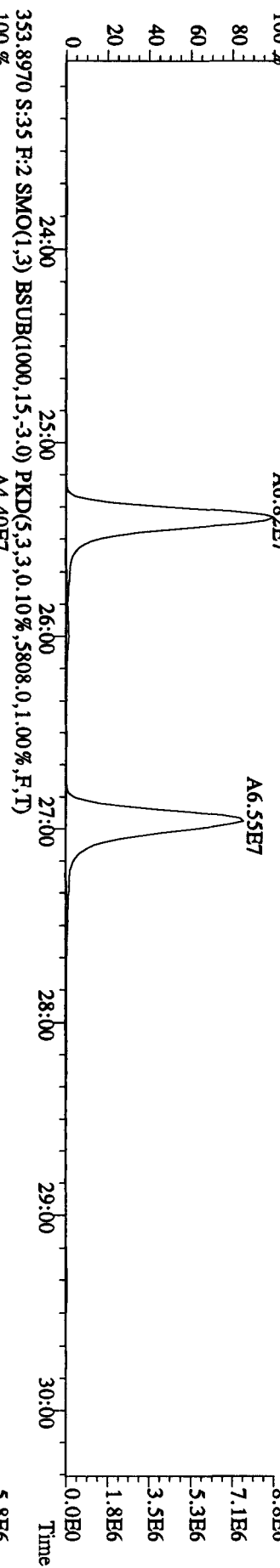
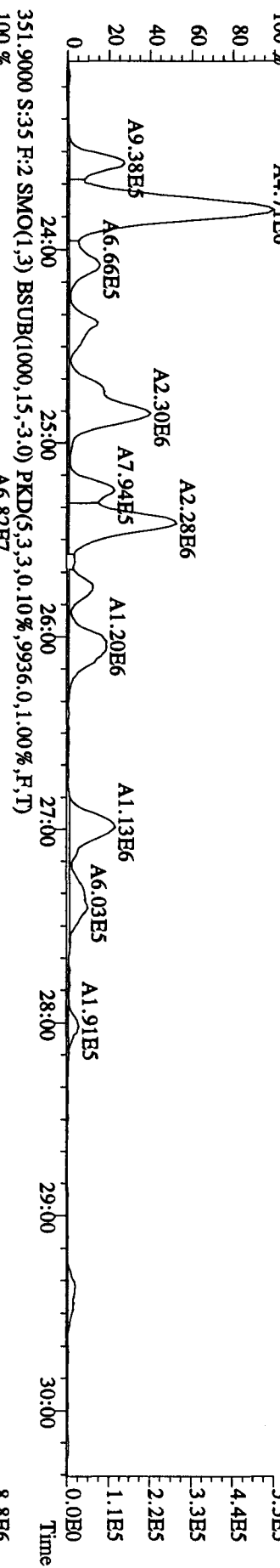
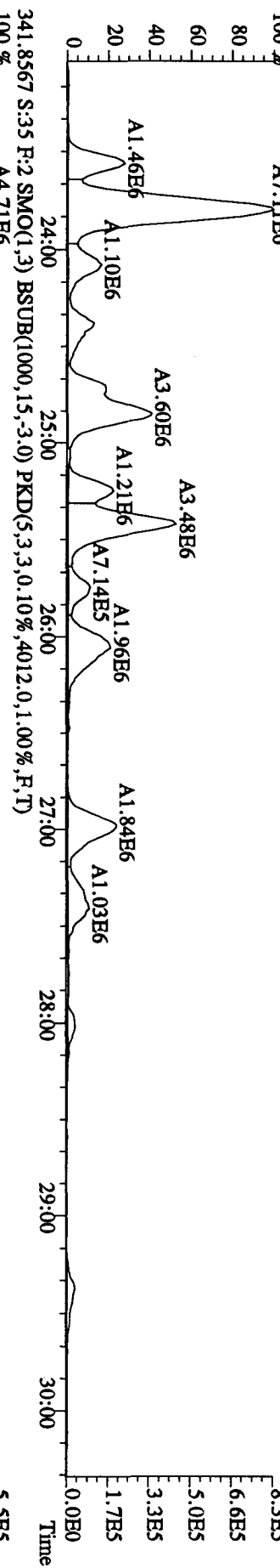
Analyst: gnd Date: 10/18/10



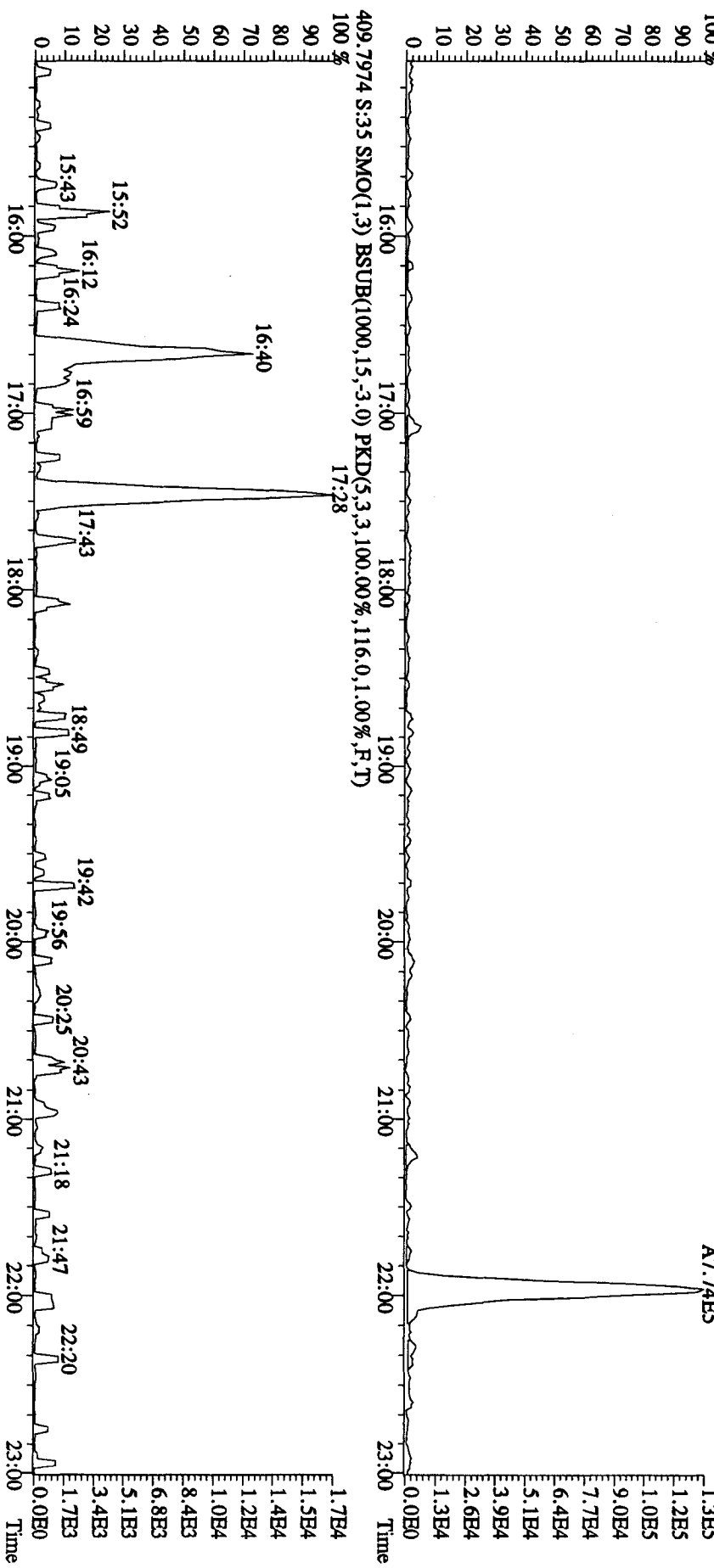
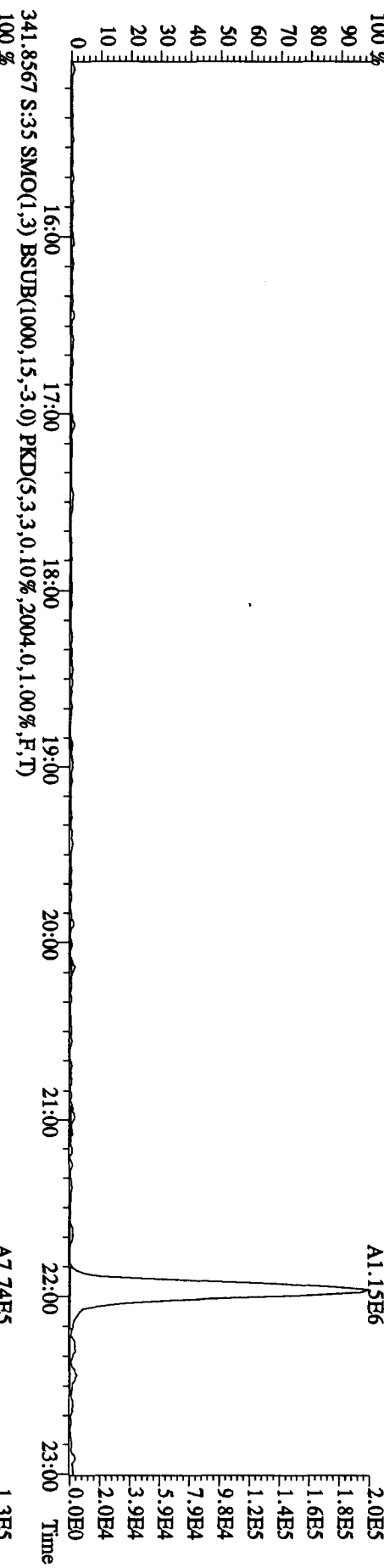
File:14OC104D5 #1-530 Acq:15-OCT-2010 11:20:46 GC EI + Voltage SIR Autospec-Ultimat  
 Sample#35 Text:L78WG-1-AA :G0J090500-7 Exp:DIOXINRES  
 327.8847 S:3:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2756.0,1.00%,F,T)  
 100 %



File:14OC104D5 #1-470 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#35 Text:L78WG-1-AA :G0J090500-7 Exp.:DIOXINRES  
 339.8597 S:3.5 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4252.0,1.00%,F,T)  
 100%

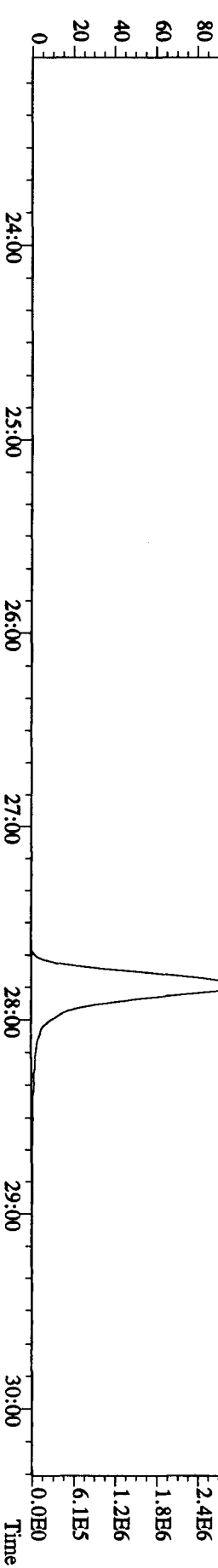
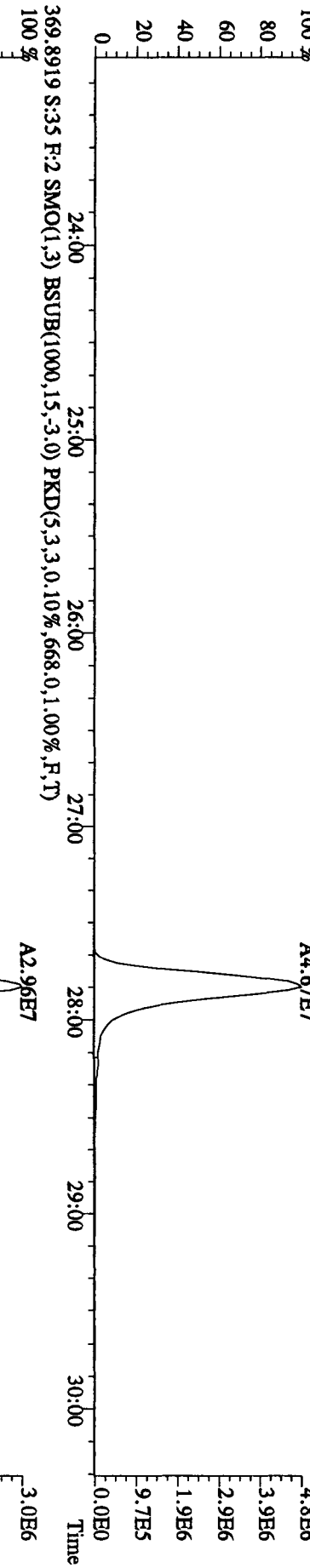
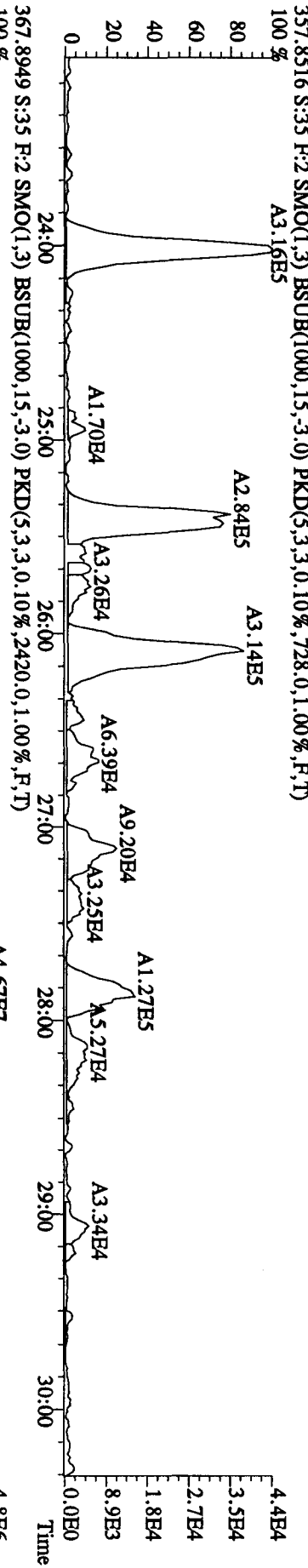
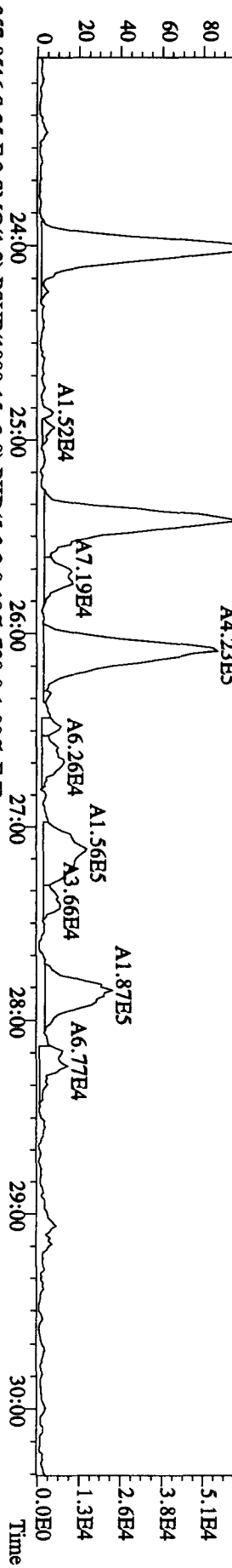


File:14OC104D5 #1-530 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#35 Text:L78WG-1-AA :G0J090500-7 Exp:DIOXINRES  
 339.8597 S:35 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1252.0,1.00%,F,T)



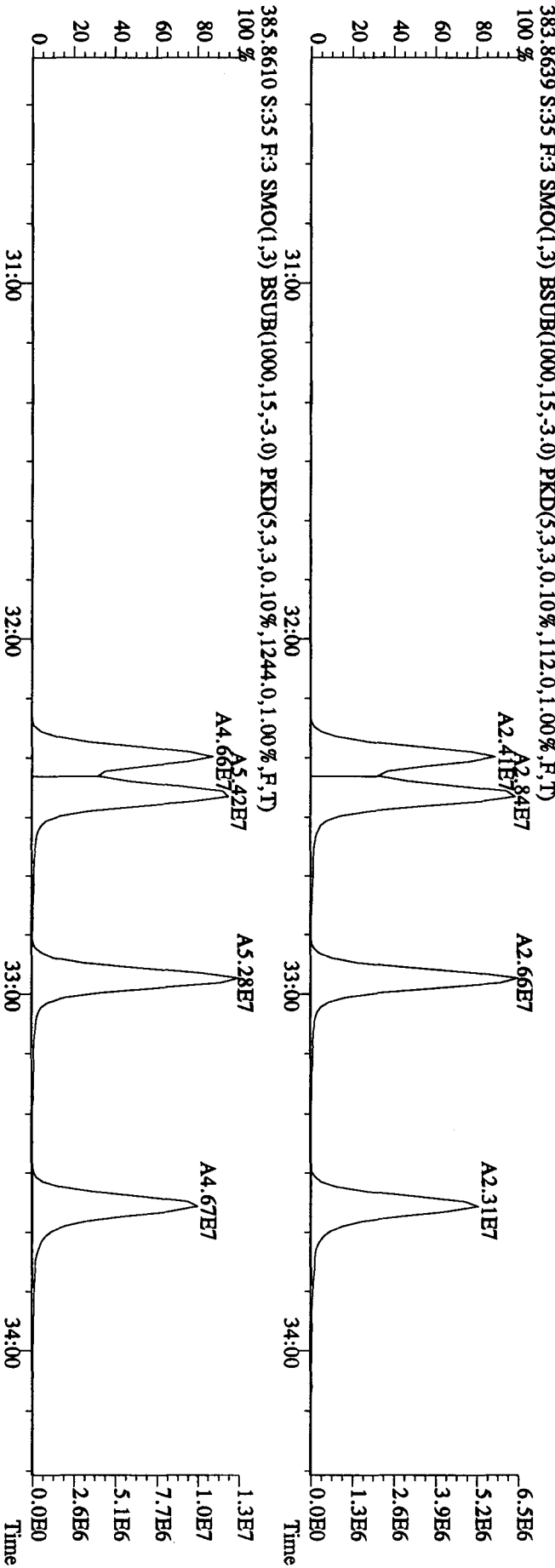
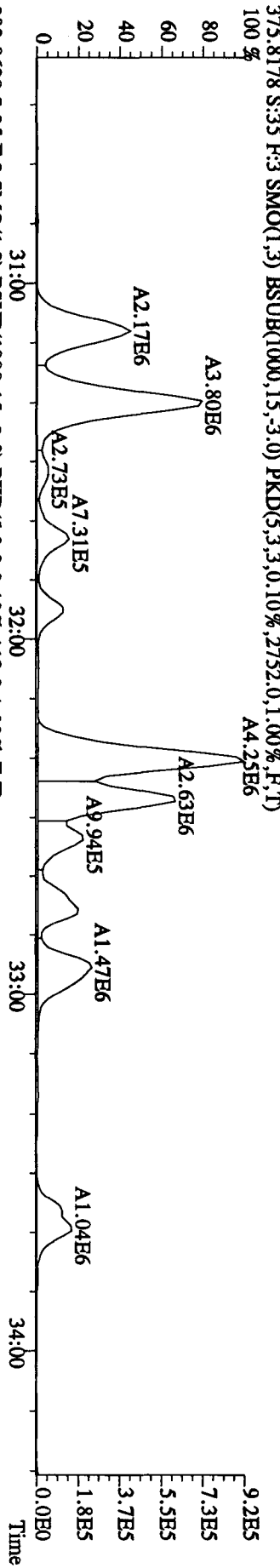
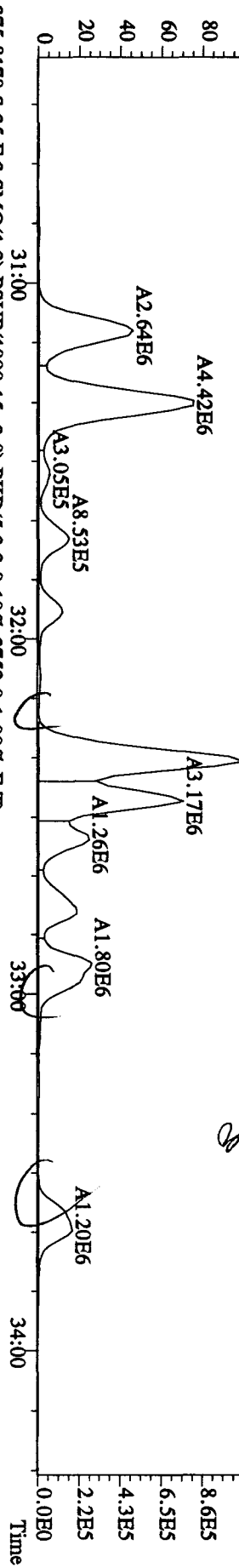
File:140C104D5 #1-470 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Exp:DIOXINRES

Sample#35 Text:L78WG-1-AA :G0J090500-7  
 355.8546 S:35 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2188,0,1,100%,F,T)

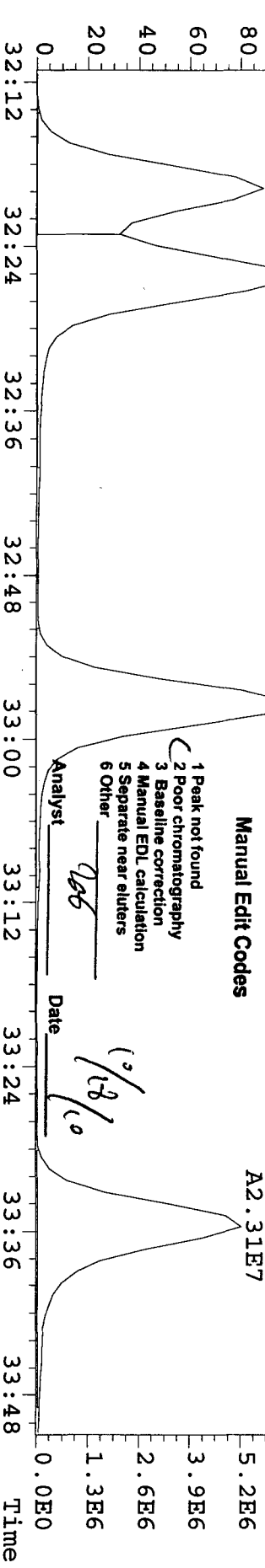
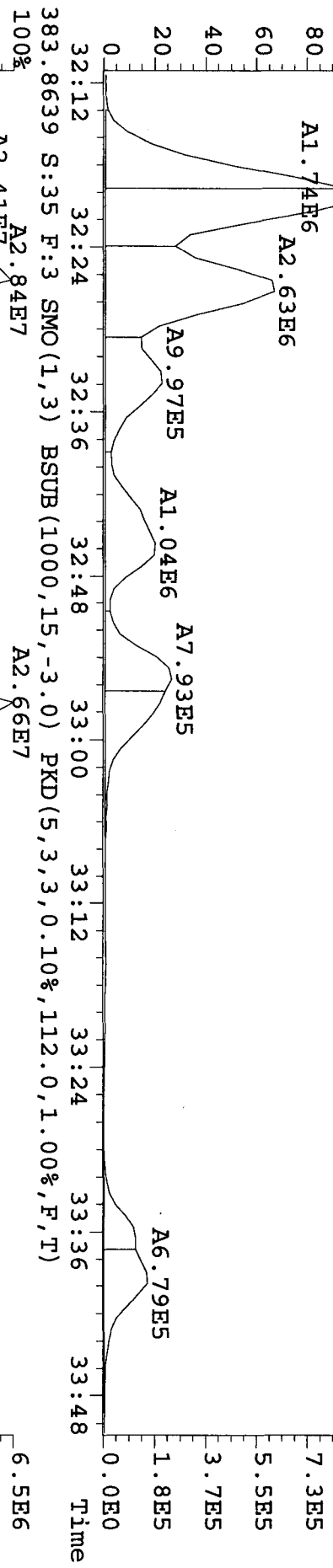
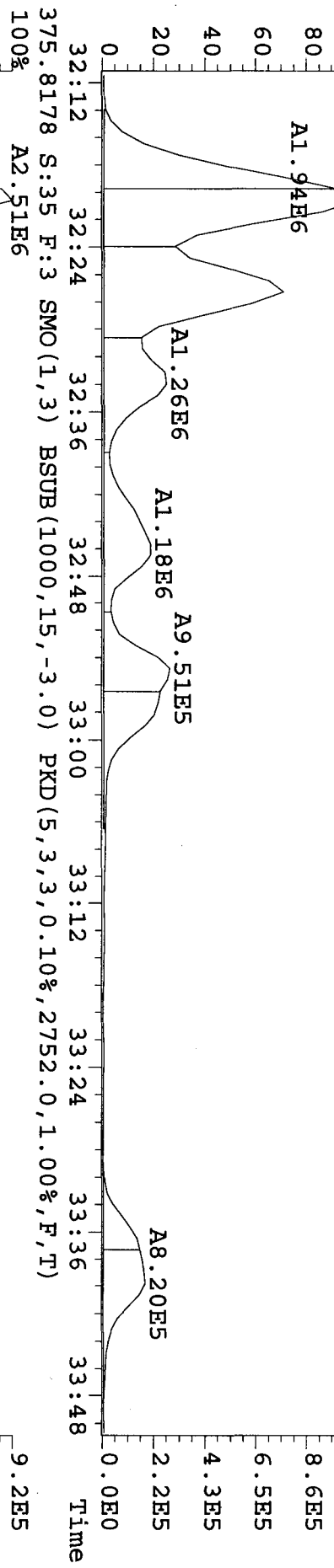


File:140C104D5 #1-287 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#35 Text:L78WG-1-AA :G01090500-7 Exp:DIOXINRES

373.8208 S:3.5 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4708.0,1.00%,F,T)  
 100%



File:14OC104D5 #1-287 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#35 Text:L78WG-1-AA :G0J090500-7 Exp:DIOXINRES  
 373.8208 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4708.0,1.00%,F,T)  
 100% A3.04E6



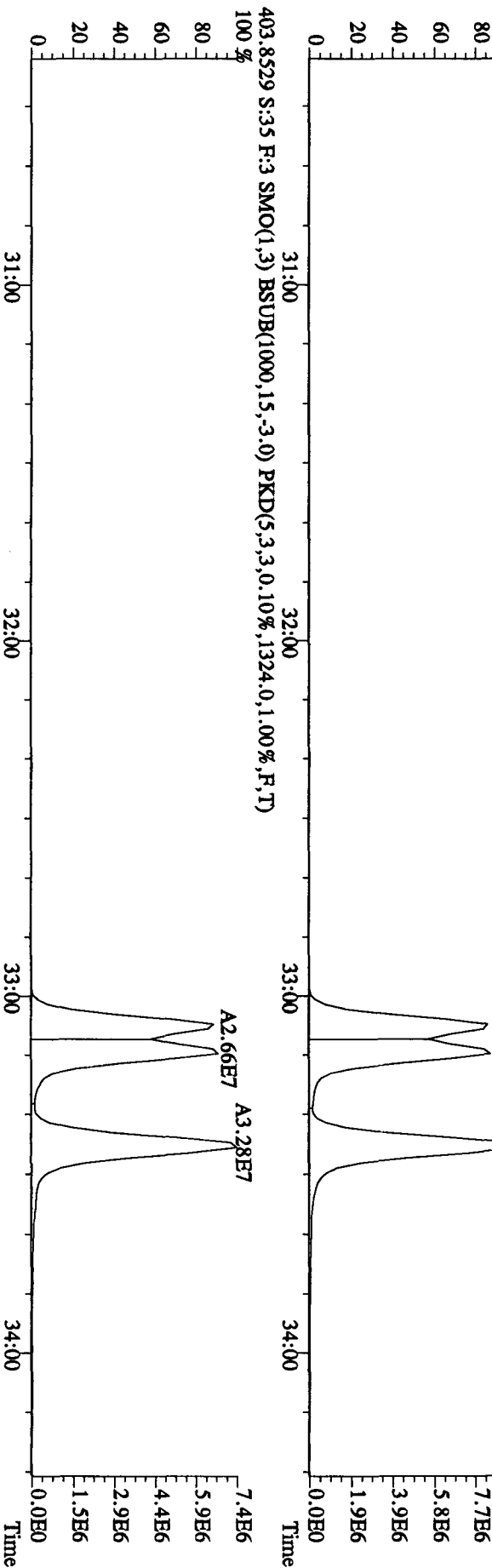
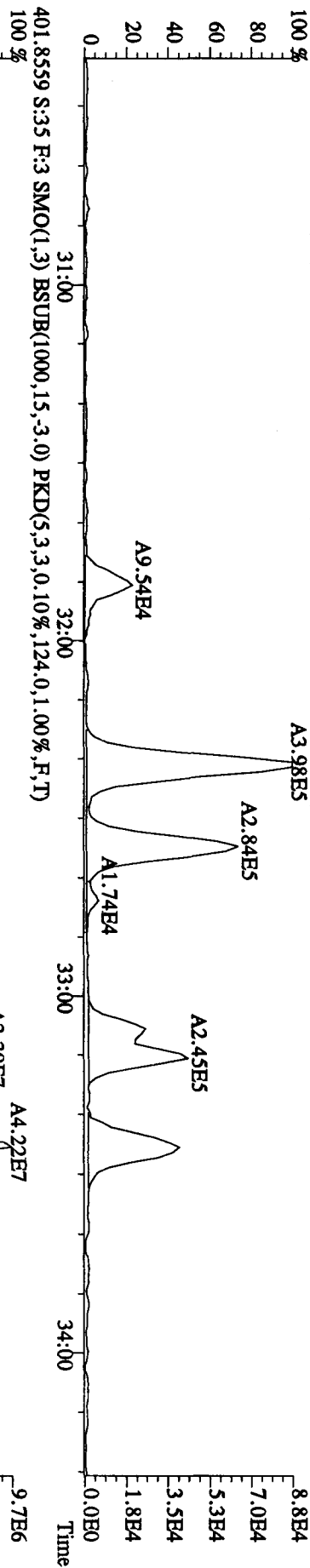
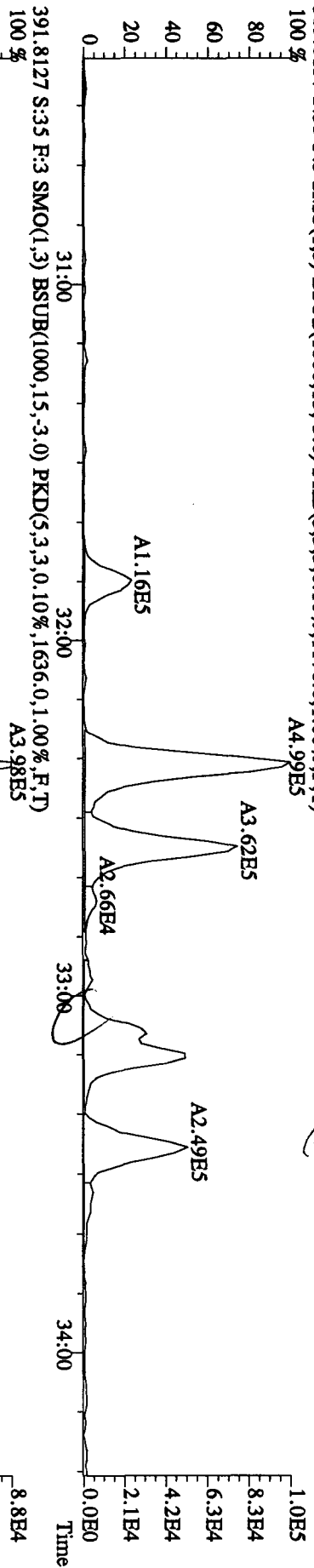
**Manual Edit Codes**

- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst gab Date 10/18/10

File:14OC104D5 #1-287 Acq:15-OCT-2010 11:20:46 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#35 Text:L78WG-1-AA :G01090500-7 Exp:DIOXINRES  
 389.8157 S:3.5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1176.0,1.00%,F,T)  
 100% A4.99E5

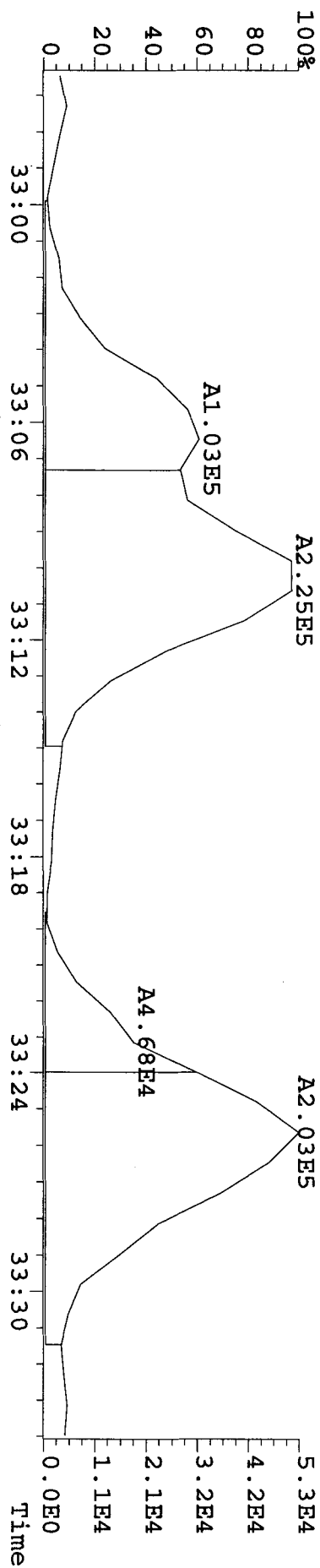
*Handwritten:* 10/8/10



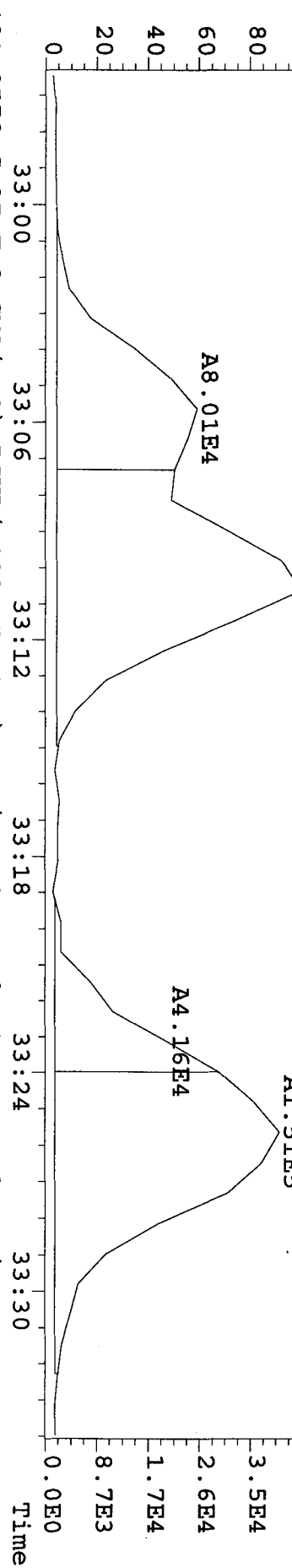
File: 14OC104D5 #1-287 Acq: 15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-Ultima

Sample#35 Text: L78WG-1-AA : G0J090500-7 Exp: DIOXINRES

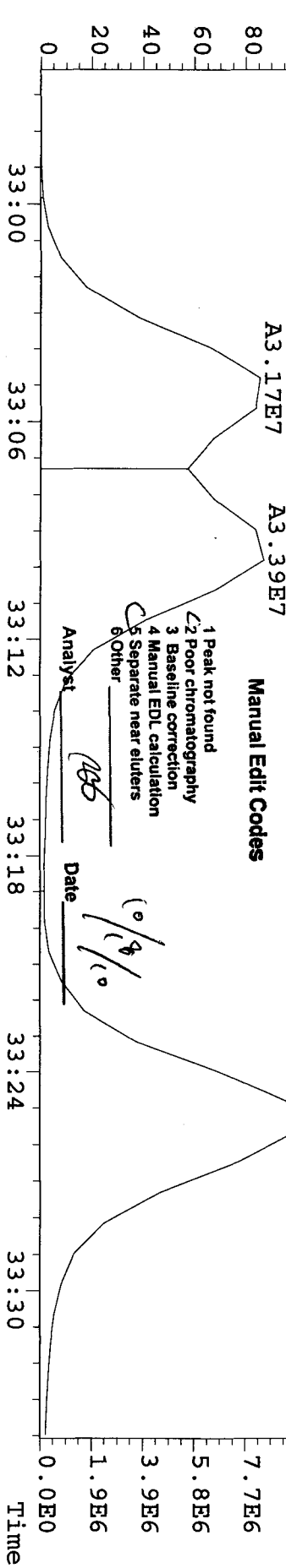
389.8157 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1176.0,1.00%,F,T)



391.8127 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1636.0,1.00%,F,T)



401.8559 S:35 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,124.0,1.00%,F,T)



**Manual Edit Codes**

- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst

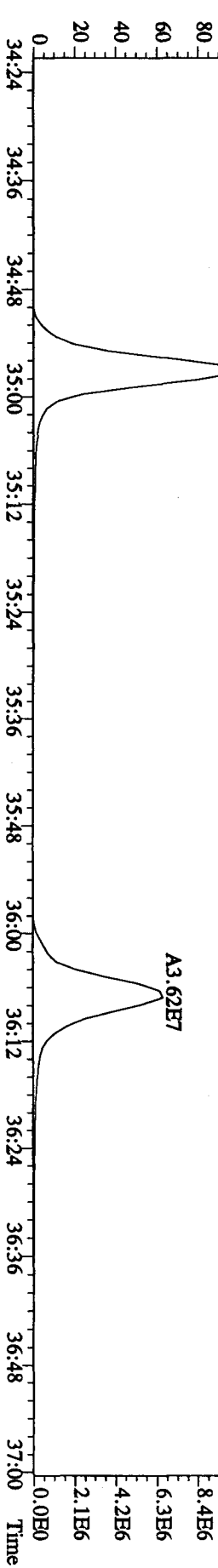
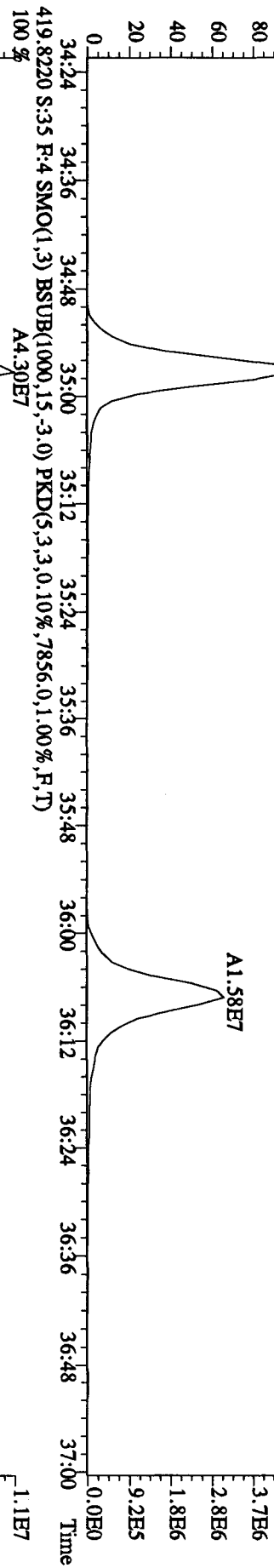
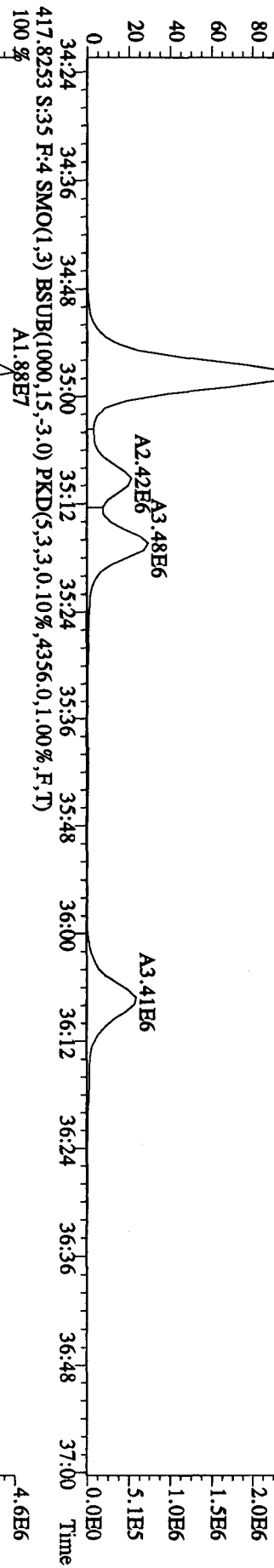
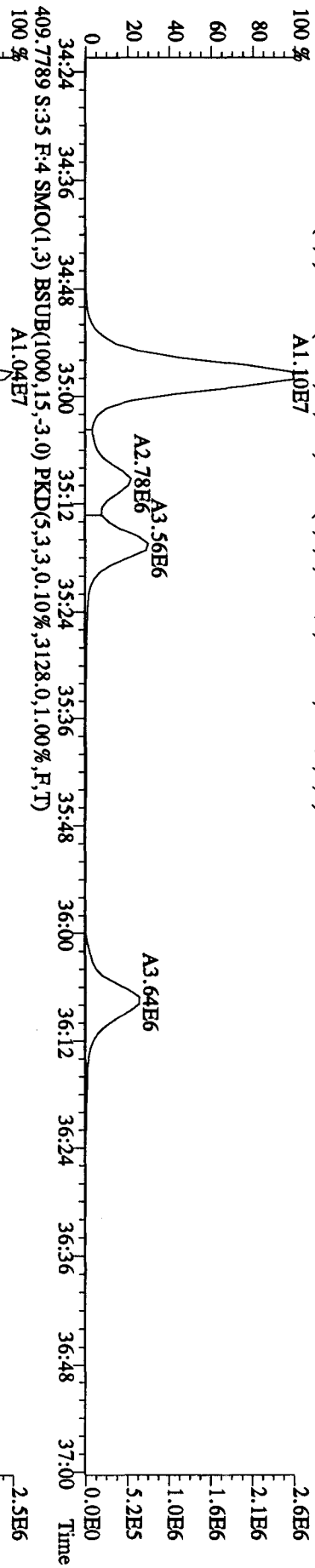
*ASB*

Date

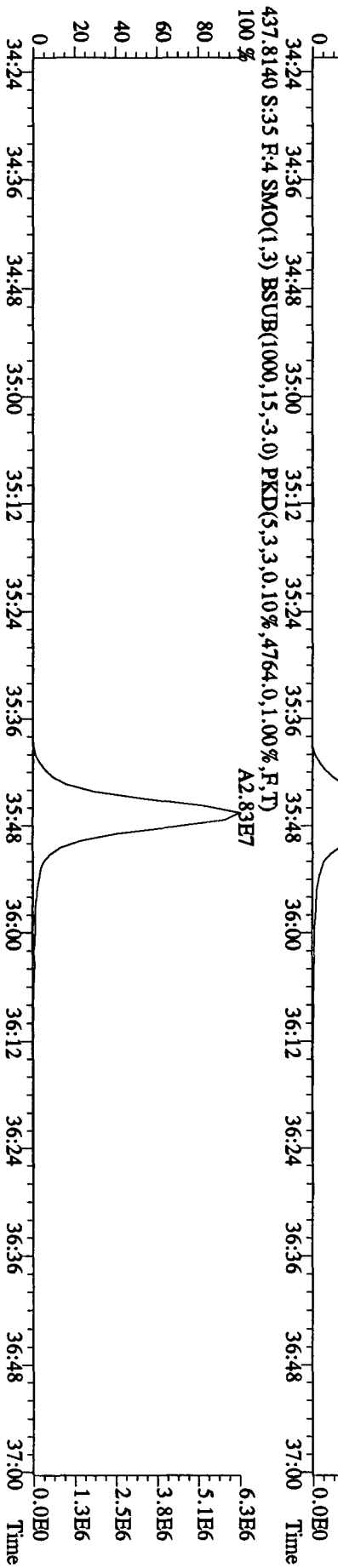
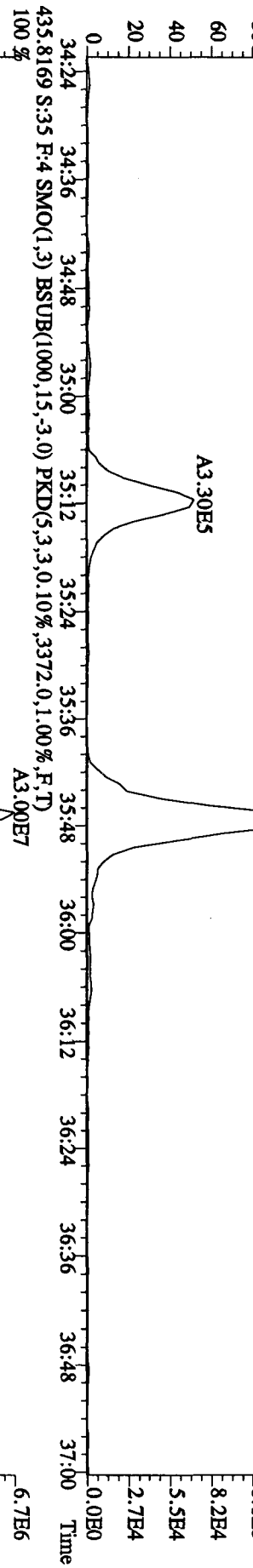
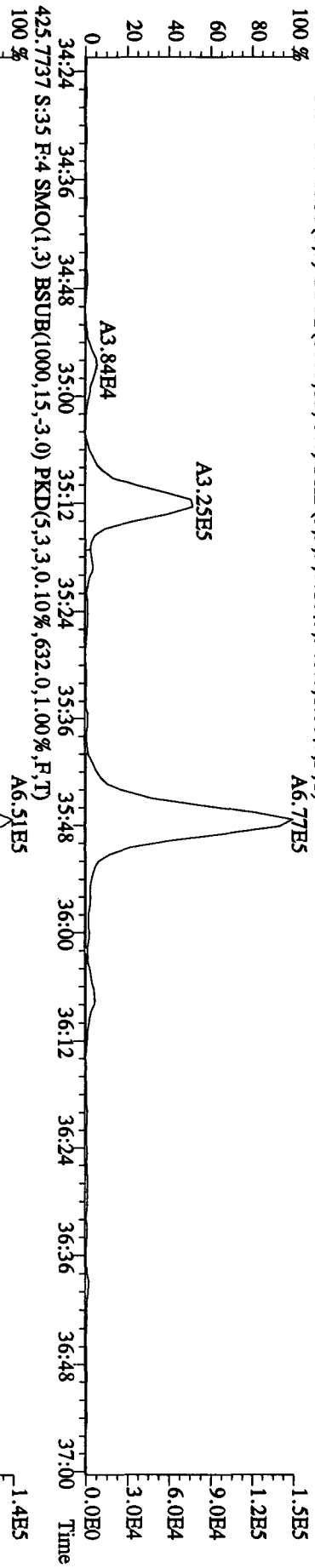
10/9/10



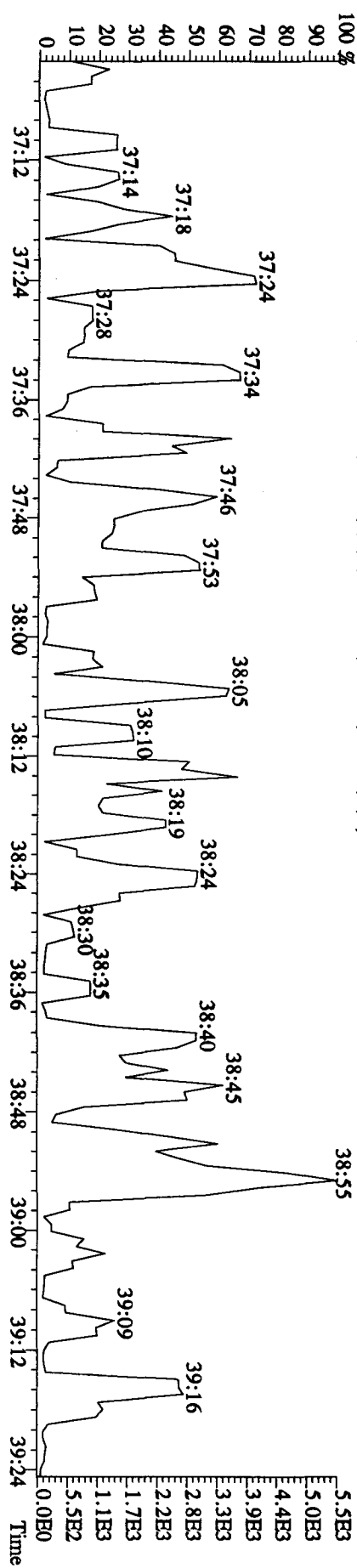
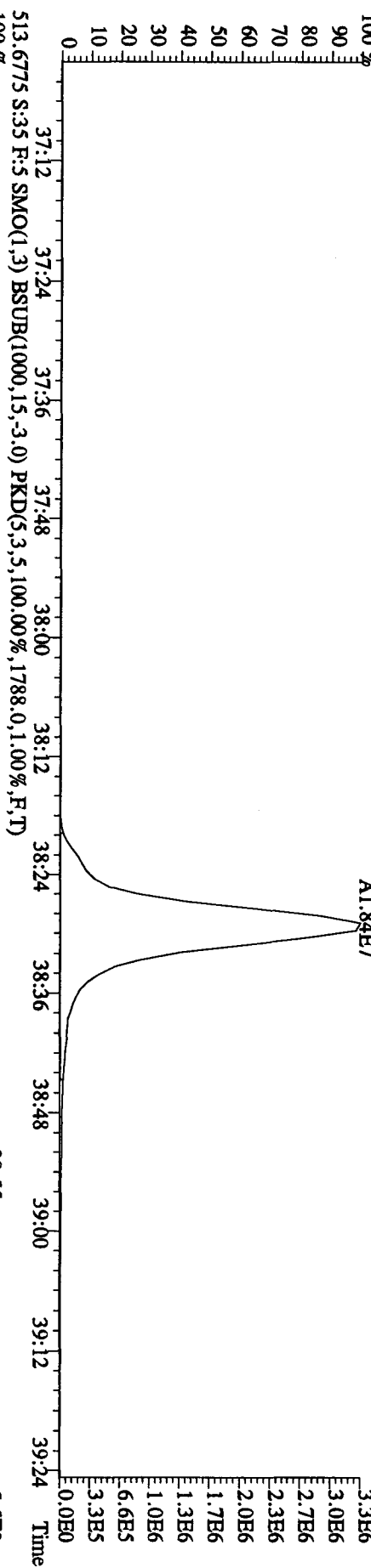
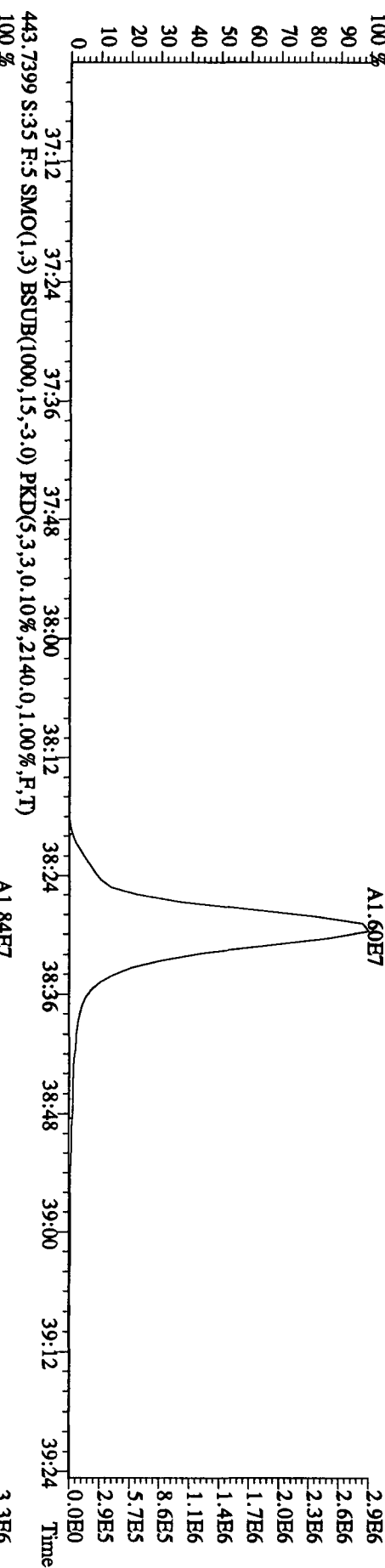
File:14OC104D5 #1-200 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-UltraE  
 Sample#35 Text:L78WG-1-AA :G01090500-7 Exp:DIOXINRES  
 407.7818 S:3.5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1892.0,1.00%,F,T)  
 100 % A1.10E7



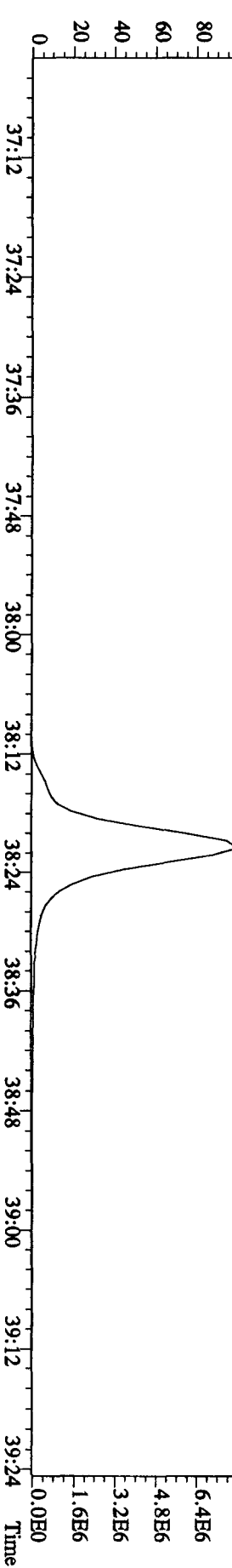
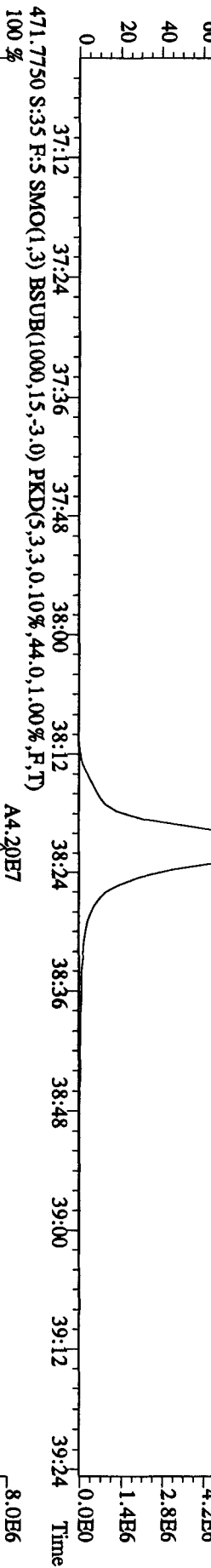
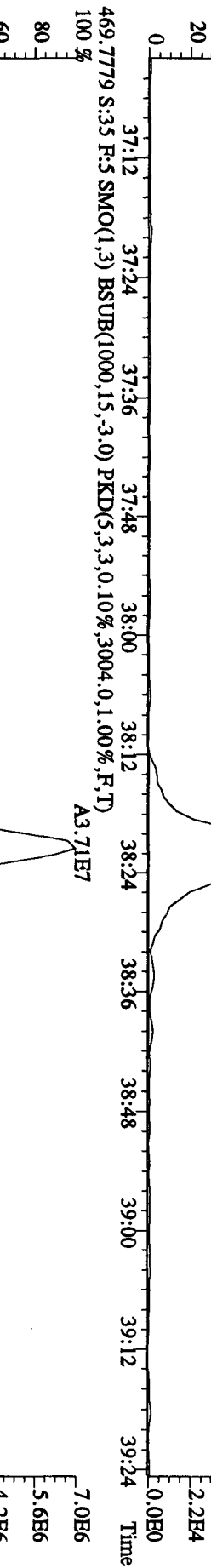
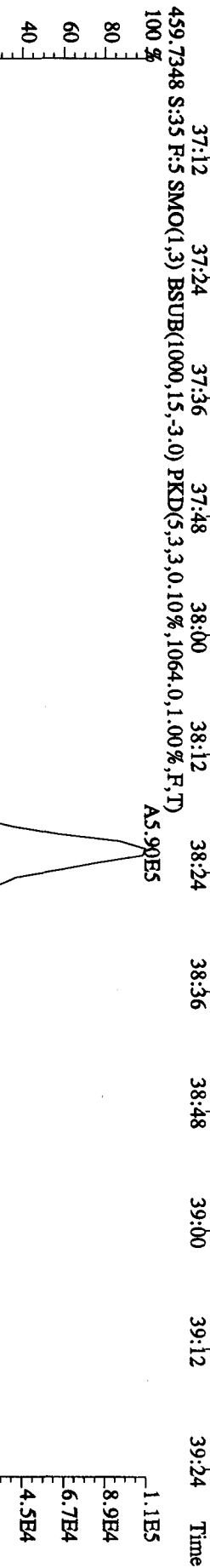
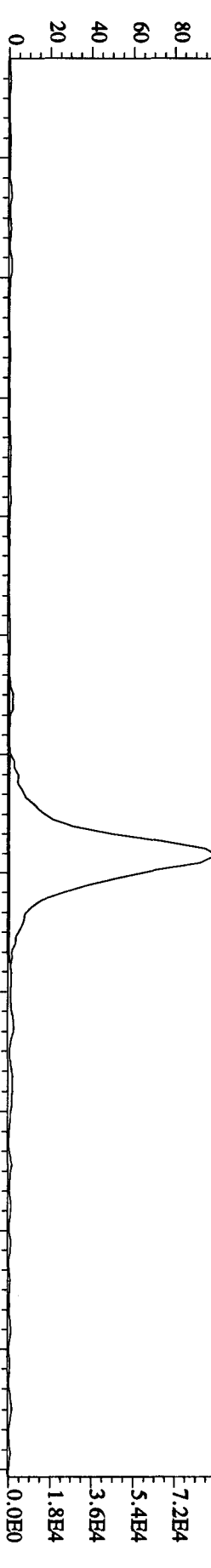
File:140C104D5 #1-200 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#35 Text:L78WG-1-AA :G0J090500-7 Exp:DIOXINRES  
 423.7766 S:3.5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,940.0,1.00%,F,T)  
 100%



File:14OC104D5 #1-193 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#35 Text:L78WG-1-AA :G01090500-7 Exp:DIOXINRES  
 441.7428 S:35 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1472.0,1.00%,F,T)

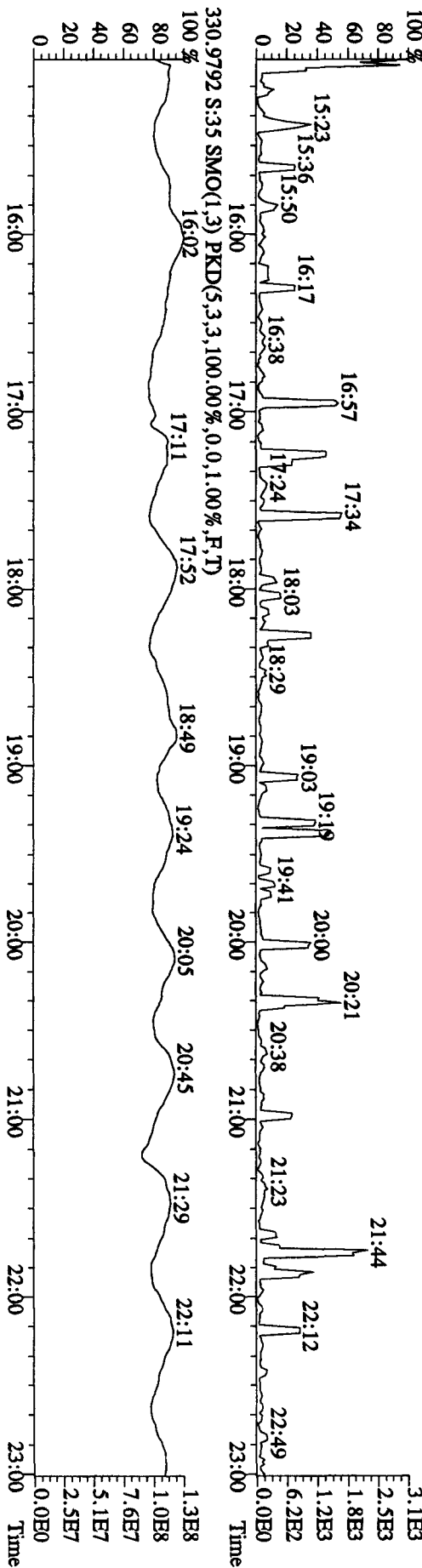
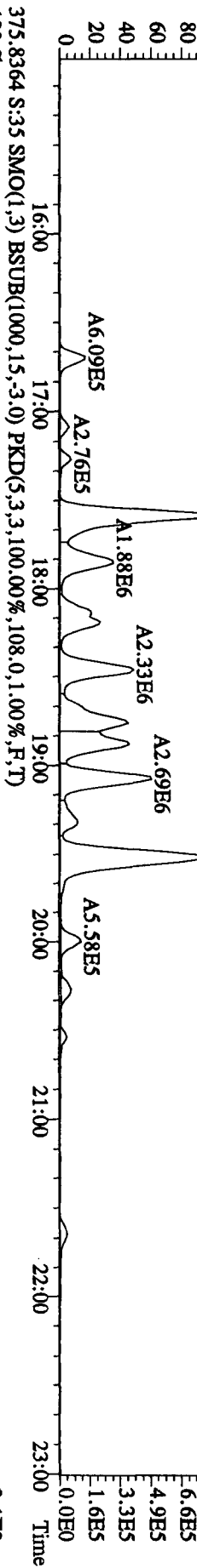
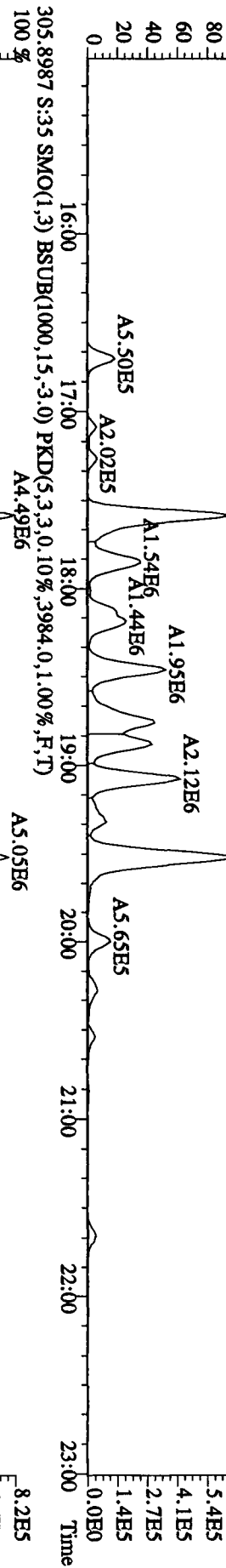
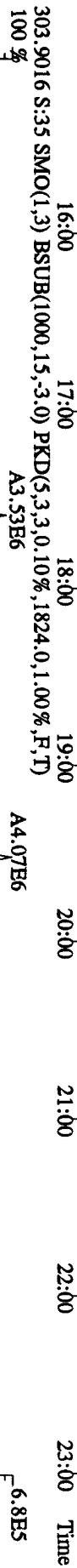
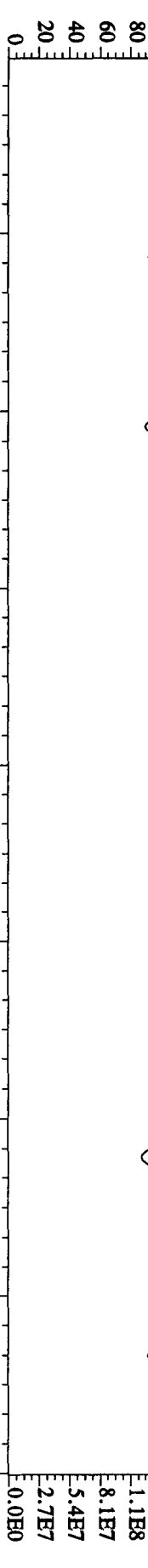


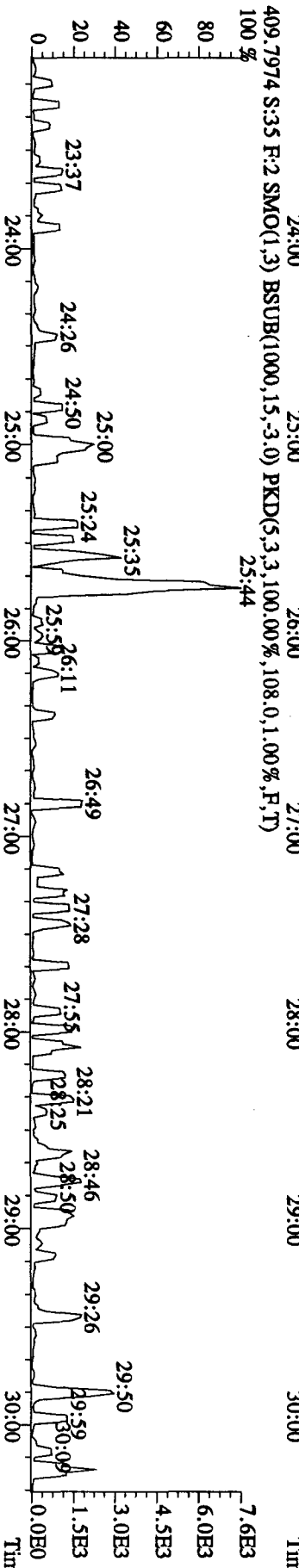
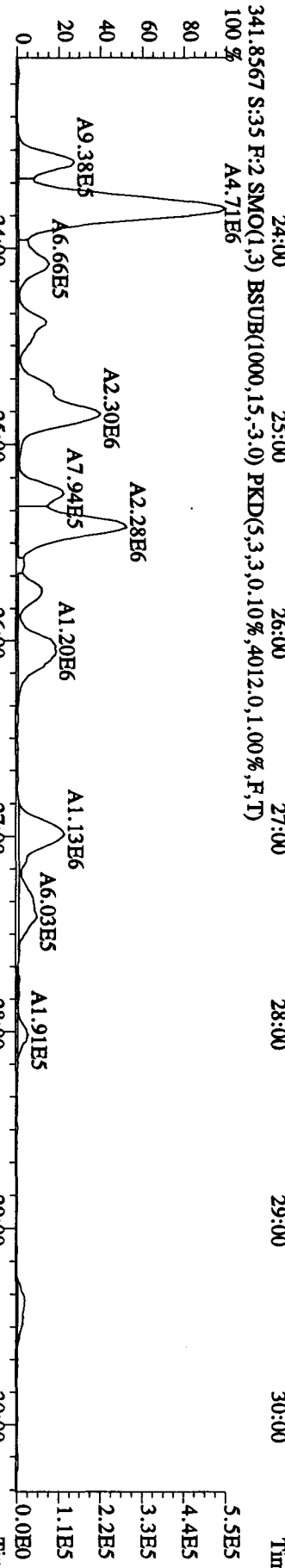
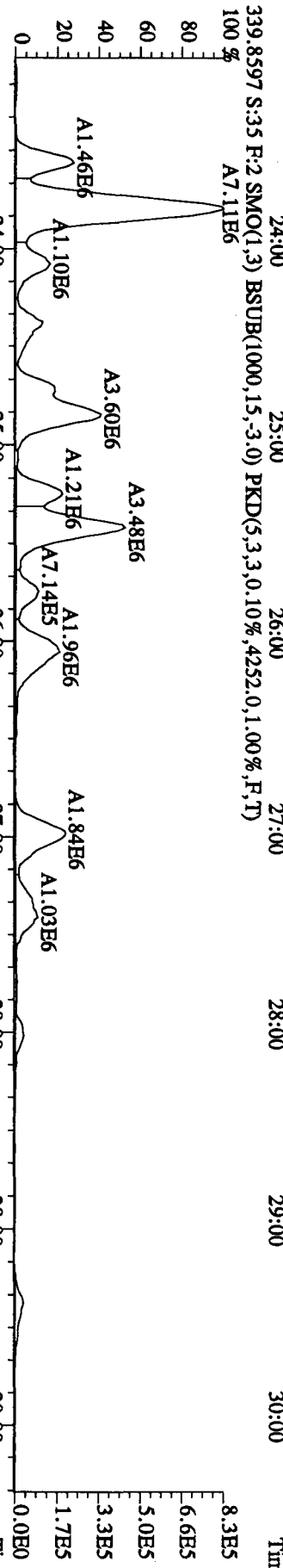
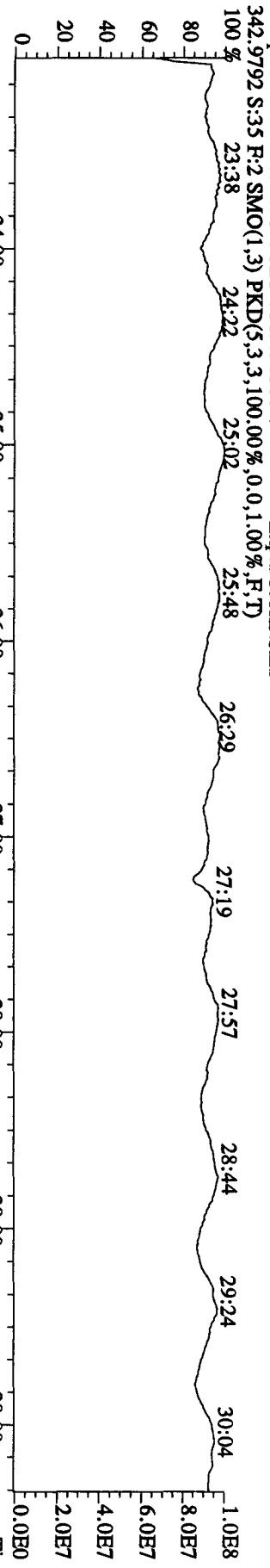
File:140C104D5 #1-193 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#35 Text:L78WG-1-AA :G0J090500-7 Exp:DIOXINRES  
 457.7377 S:35 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,992.0,1.00%,F,T)  
 100%



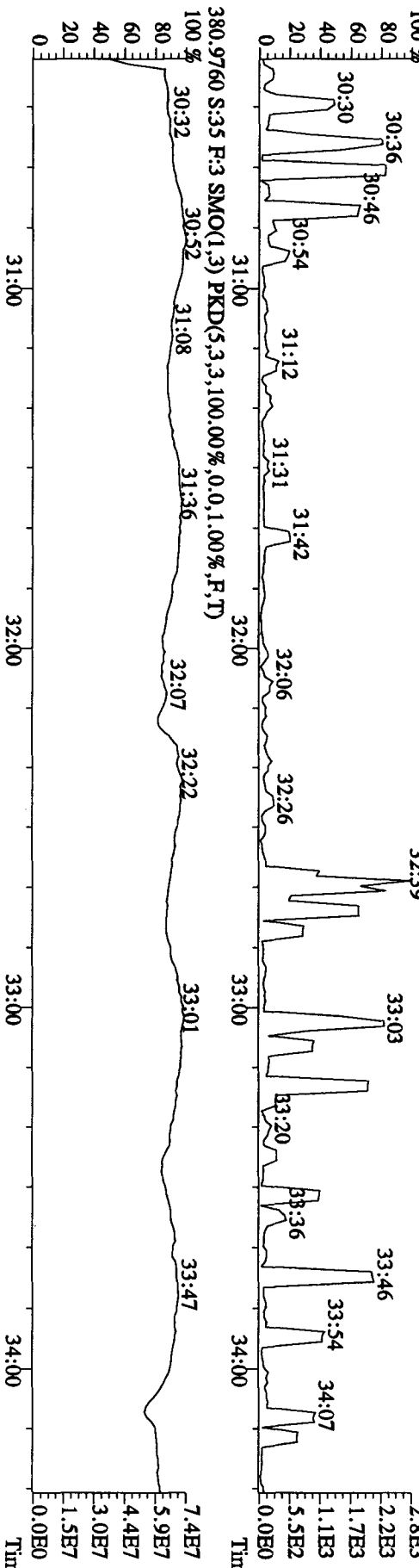
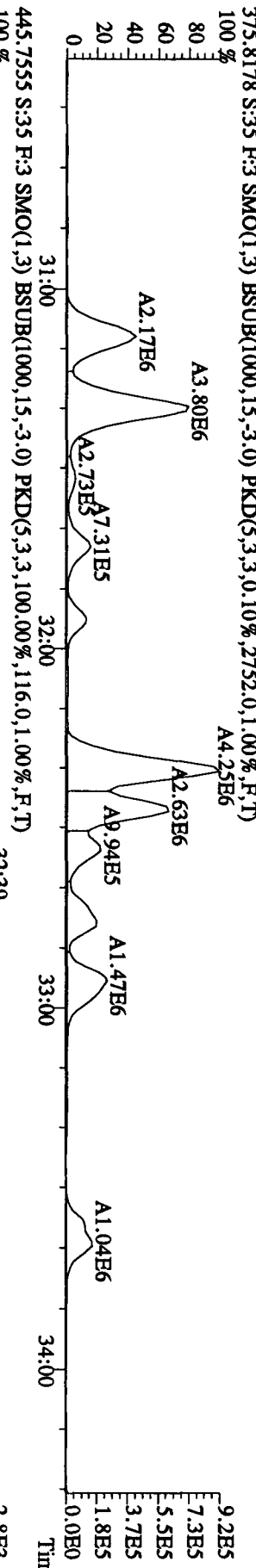
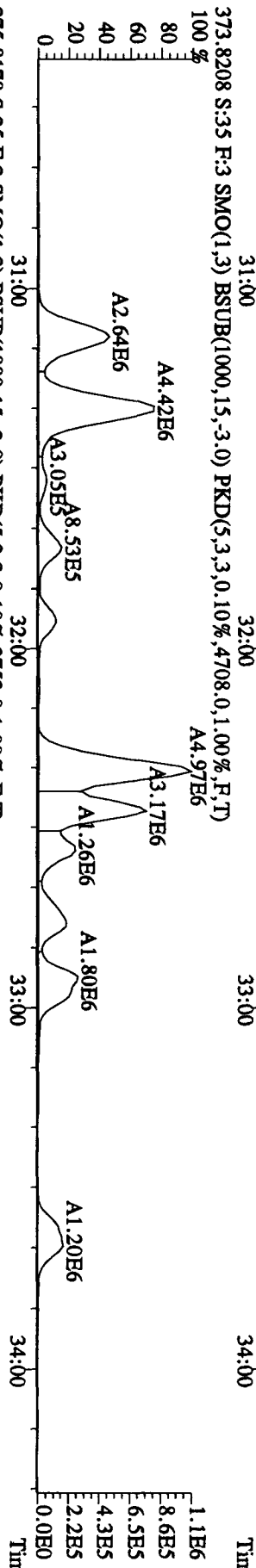
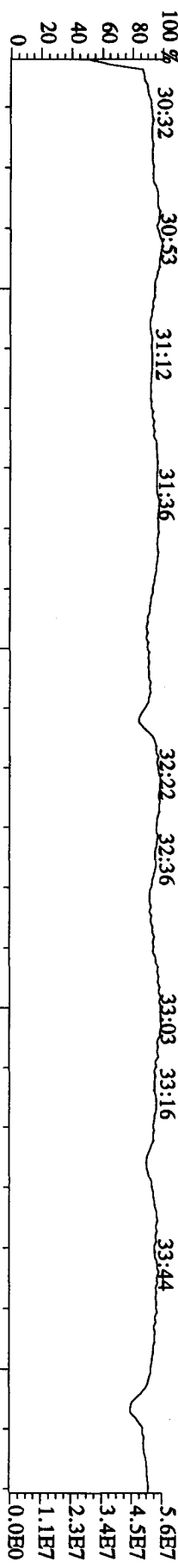
Sample#35 Text:L78WG-1-AA :G0J090500-7 Exp:DIOXINES

292.9825 S:3.5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

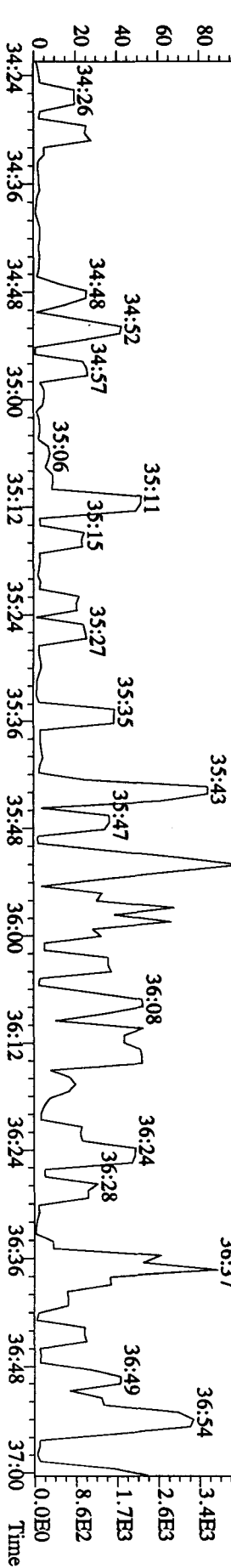
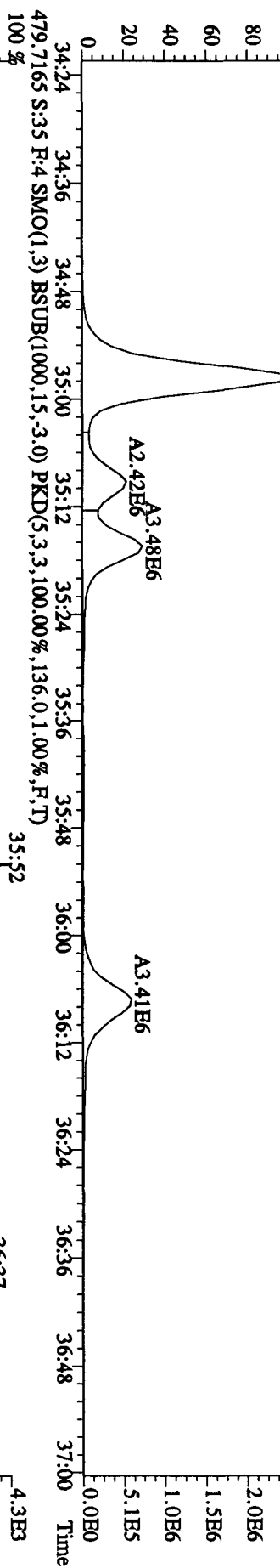
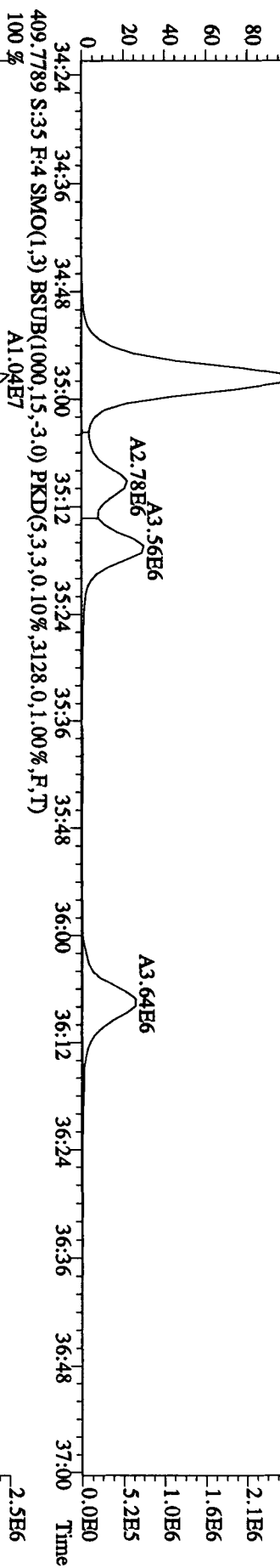
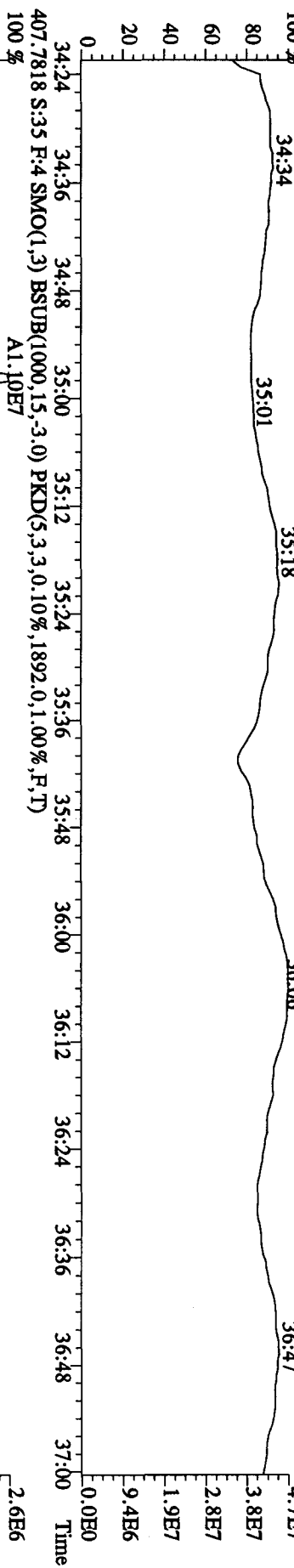




File:14OCT104D5 #1-287 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-Ultimat  
 Sample#35 Tex:L78WG-1-AA :G01090500-7 Exp:DIOXINRES

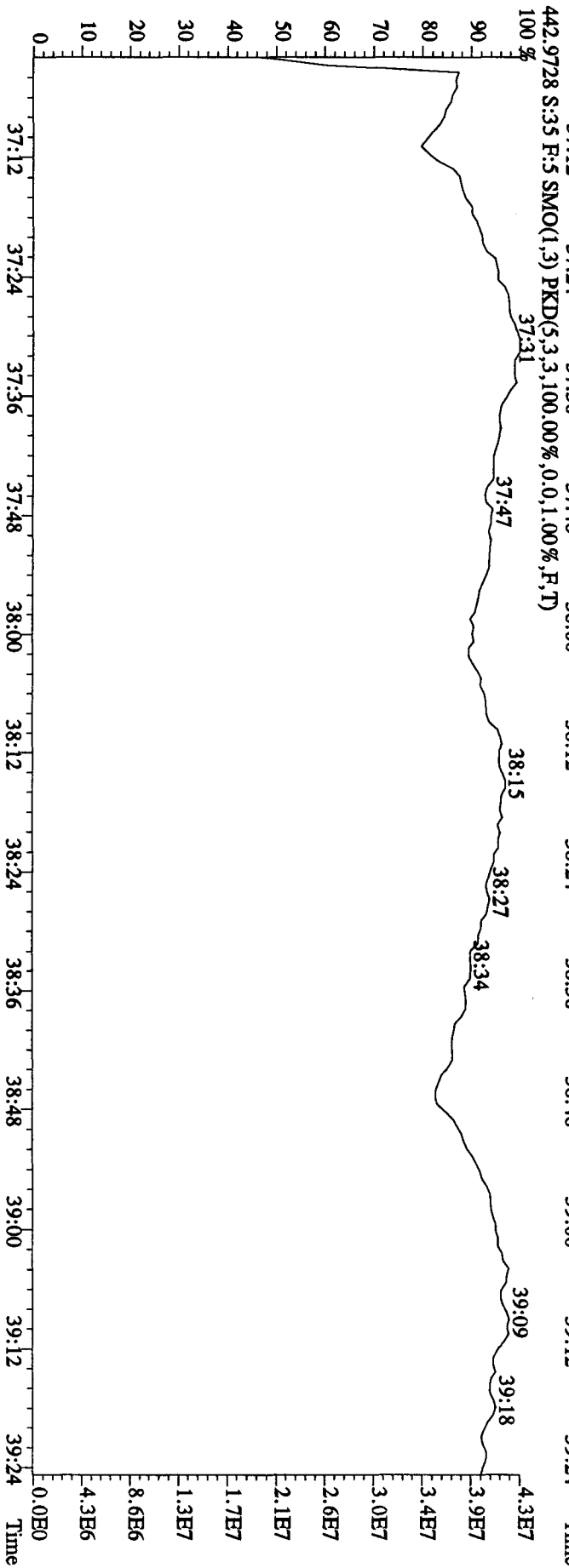
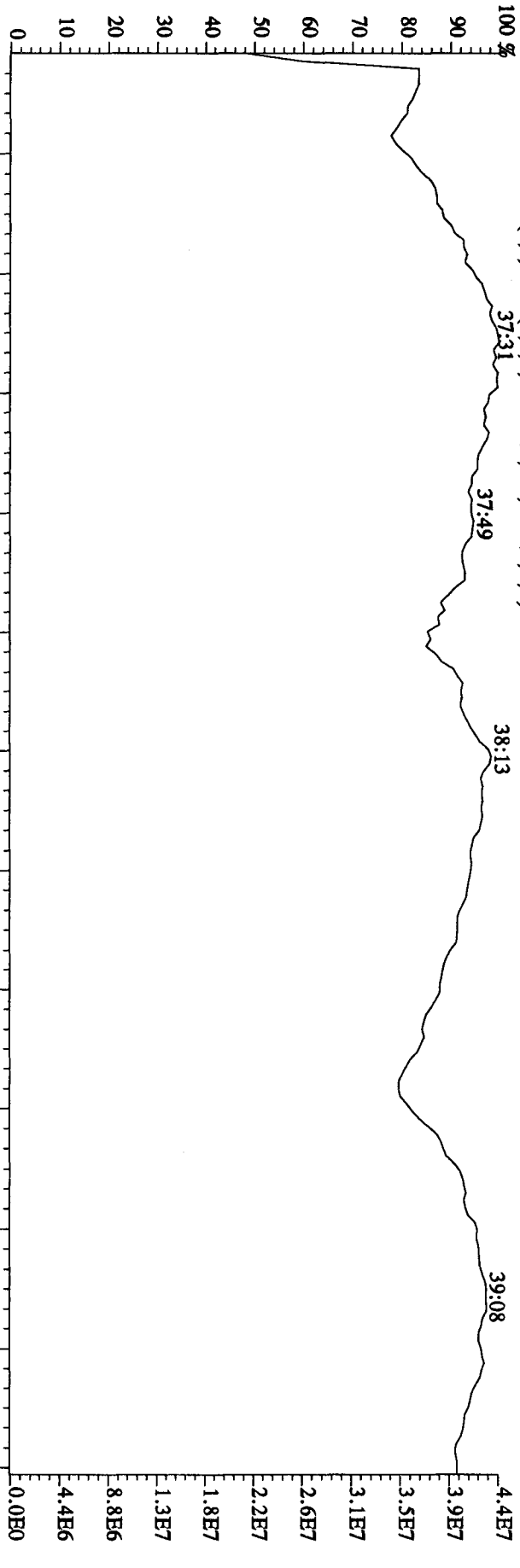


File: 140C104D5 #1-200 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#35 Text:L78WG-1-AA :G0J090500-7 Exp:DIOXINRES  
 430.9728 S:3.5 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)





File:140C104D5 #1-193 Acq:15-OCT-2010 11:20:46 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#35 Text:L78WG-1-AA :G01090500-7 Exp:DIOXINRES  
 454.9728 S:3.5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L78WG-1-AA Sample text: L78WG-1-AA :G0J090500-7  
 Run #8 Filename: 18OC10A5D2 S: 8 I: 1 Results: 18OC10A5D2DB225AIR  
 Acquired: 18-OCT-10 17:27:53 Processed: 19-OCT-10 10:38:56  
 Run: 18OC10A5D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

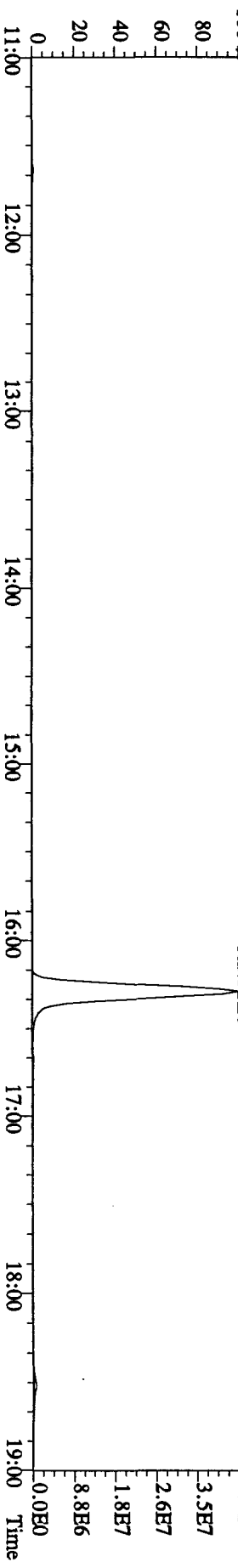
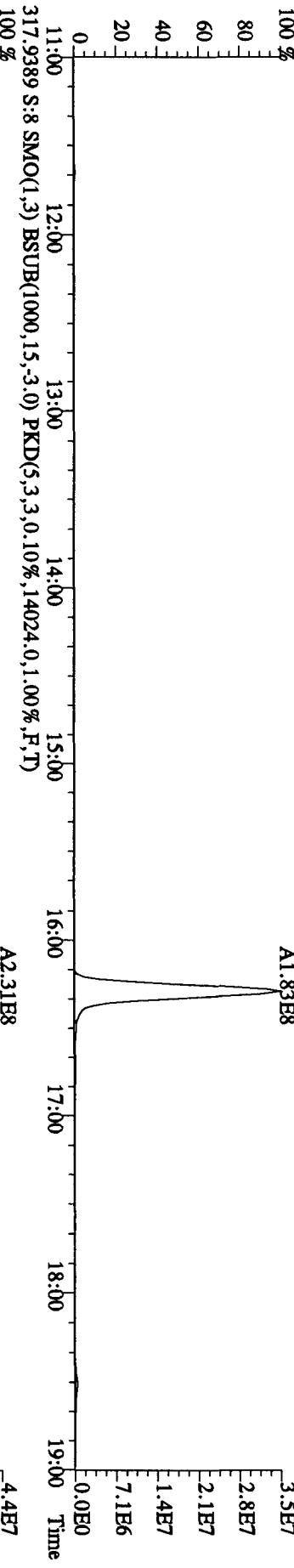
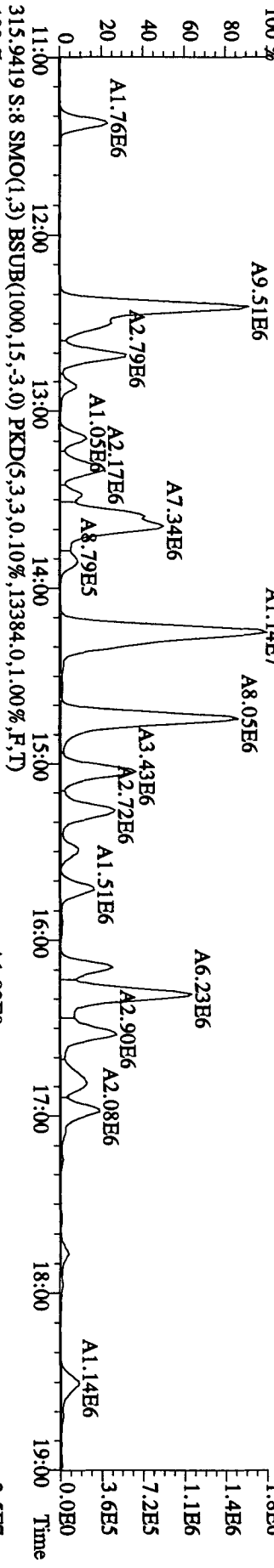
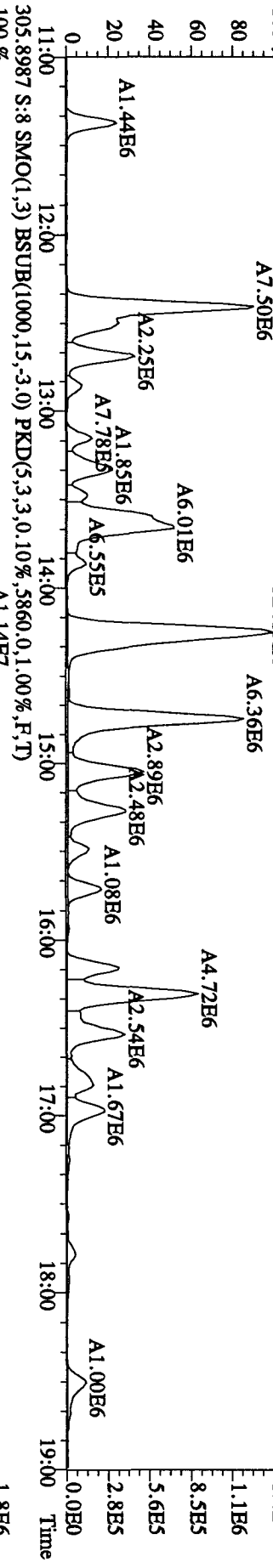
| Name              | Resp      | RA     | RT    | RRF  | Conc     | EDL   | Rec   | M |
|-------------------|-----------|--------|-------|------|----------|-------|-------|---|
| 13C-1,2,3,4-TCDD  | 231441552 | 0.77 y | 15:04 | -    | 391.942  | -     | -     | n |
| 13C-2,3,7,8-TCDF  | 414397424 | 0.79 y | 16:17 | 2.11 | 3392.147 | 3.248 | 84.8  | n |
| 2,3,7,8-TCDF      | 10948417  | 0.76 y | 16:18 | 1.06 | 100.064  | 1.458 | -     | n |
| 13C-2,3,7,8-TCDD  | 201486200 | 0.73 y | 14:48 | 0.88 | 3936.039 | 6.490 | 98.4  | n |
| 2,3,7,8-TCDD      | 766525    | 0.82 y | 14:49 | 1.64 | 9.302    | 1.718 | -     | n |
| 37Cl-2,3,7,8-TCDD | 121719608 | 1.00 y | 14:49 | 1.46 | 1657.185 | 2.475 | 103.6 | n |

*con*

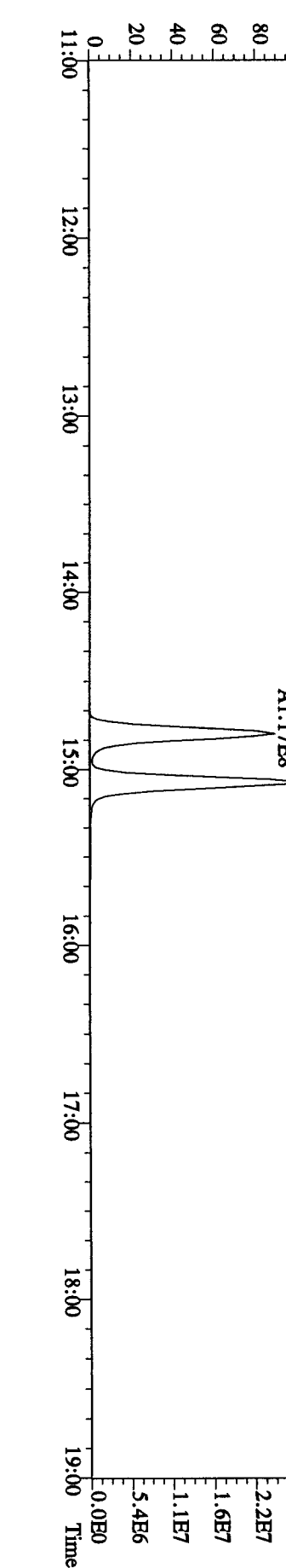
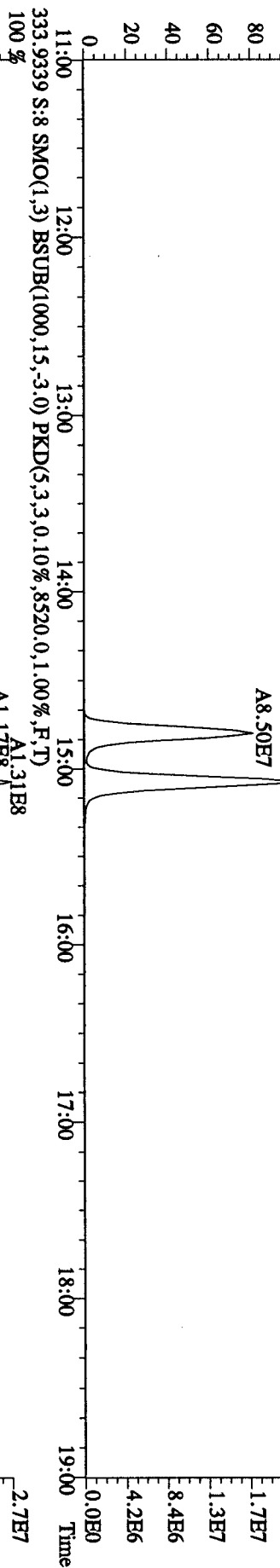
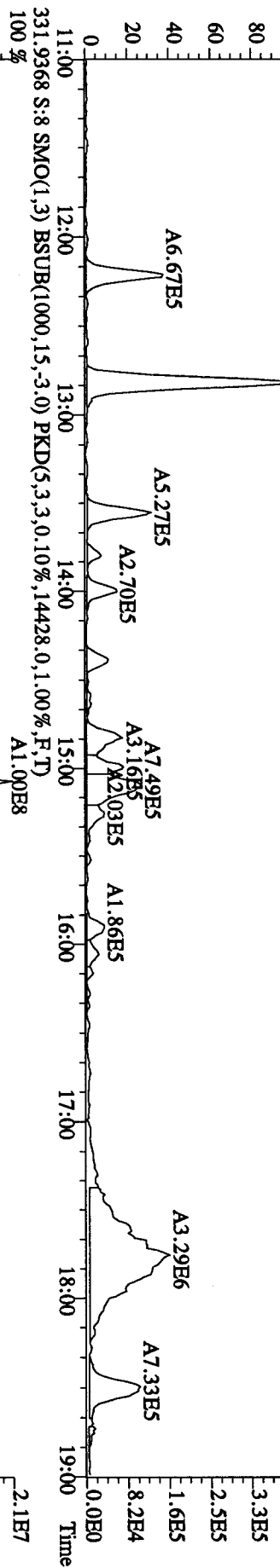
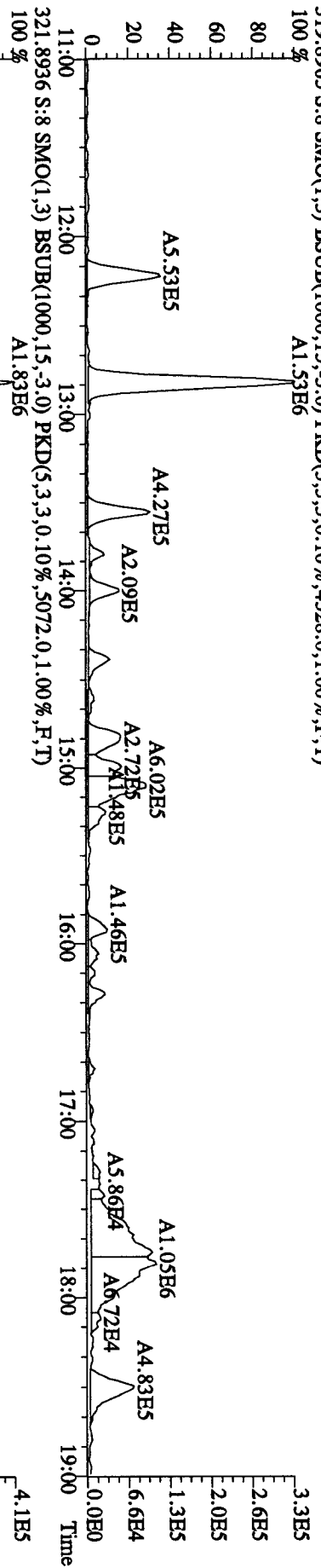
*26 10/19/10*

File:18OCI0A5D2 #1-1242 Acq:18-OCT-2010 17:27:53 GC EI+ Voltage SIR 70SE  
Sample#8 Text:L78WG-1-AA :G01090500-7 Exp:DB225RES

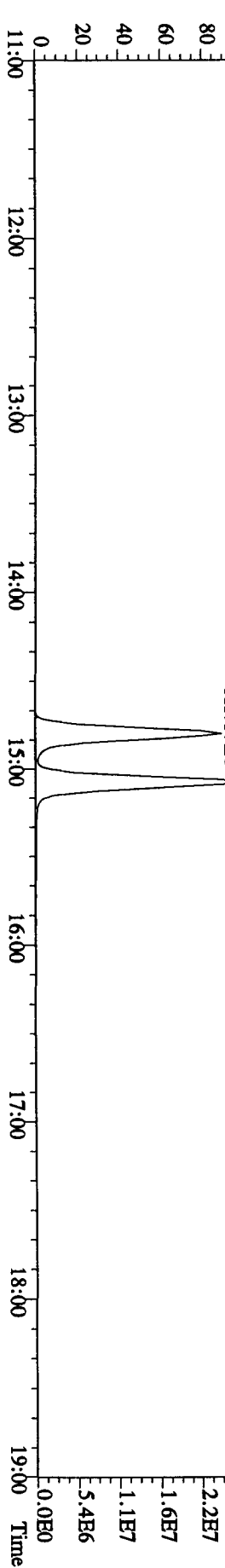
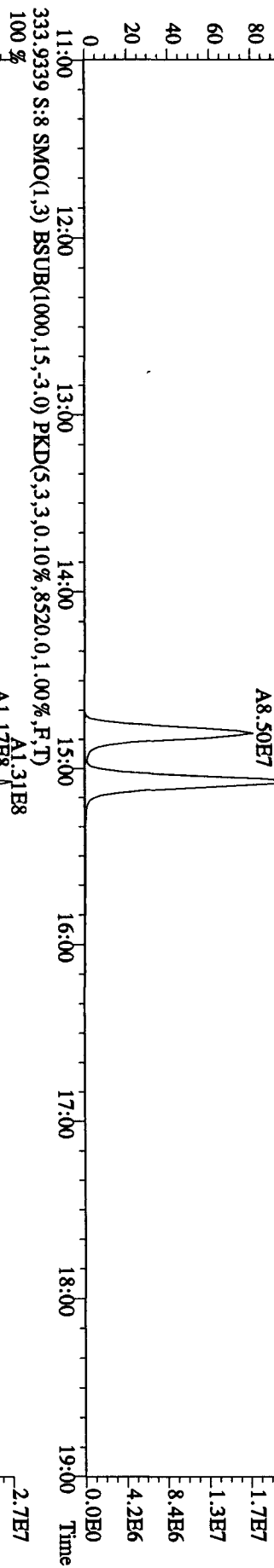
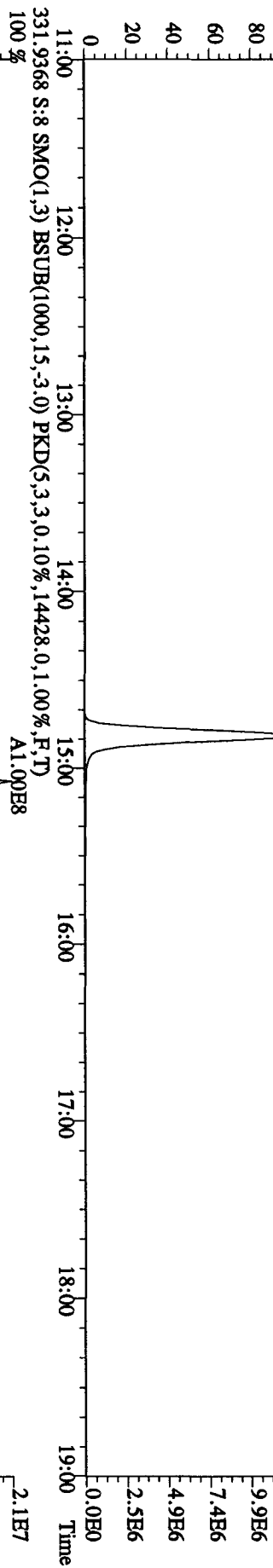
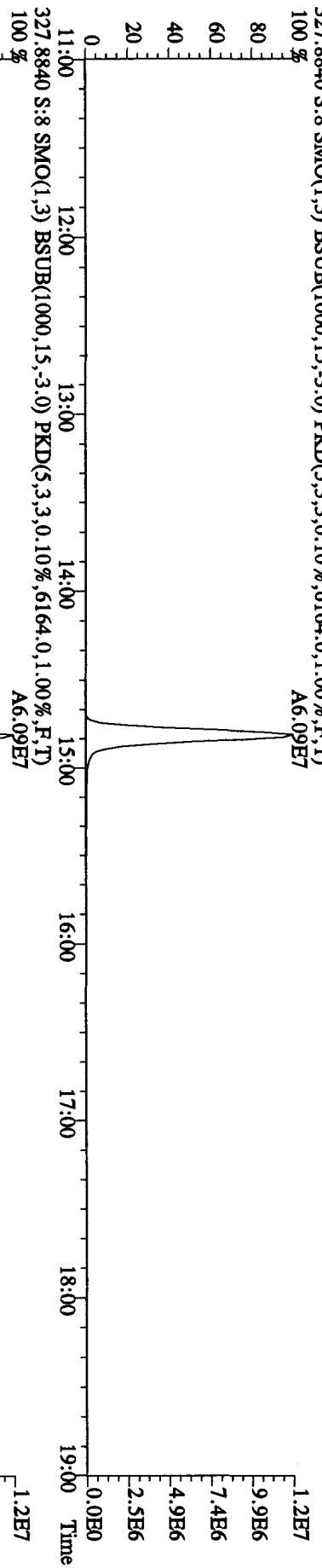
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4288.0,1.00%,F,T)  
100%



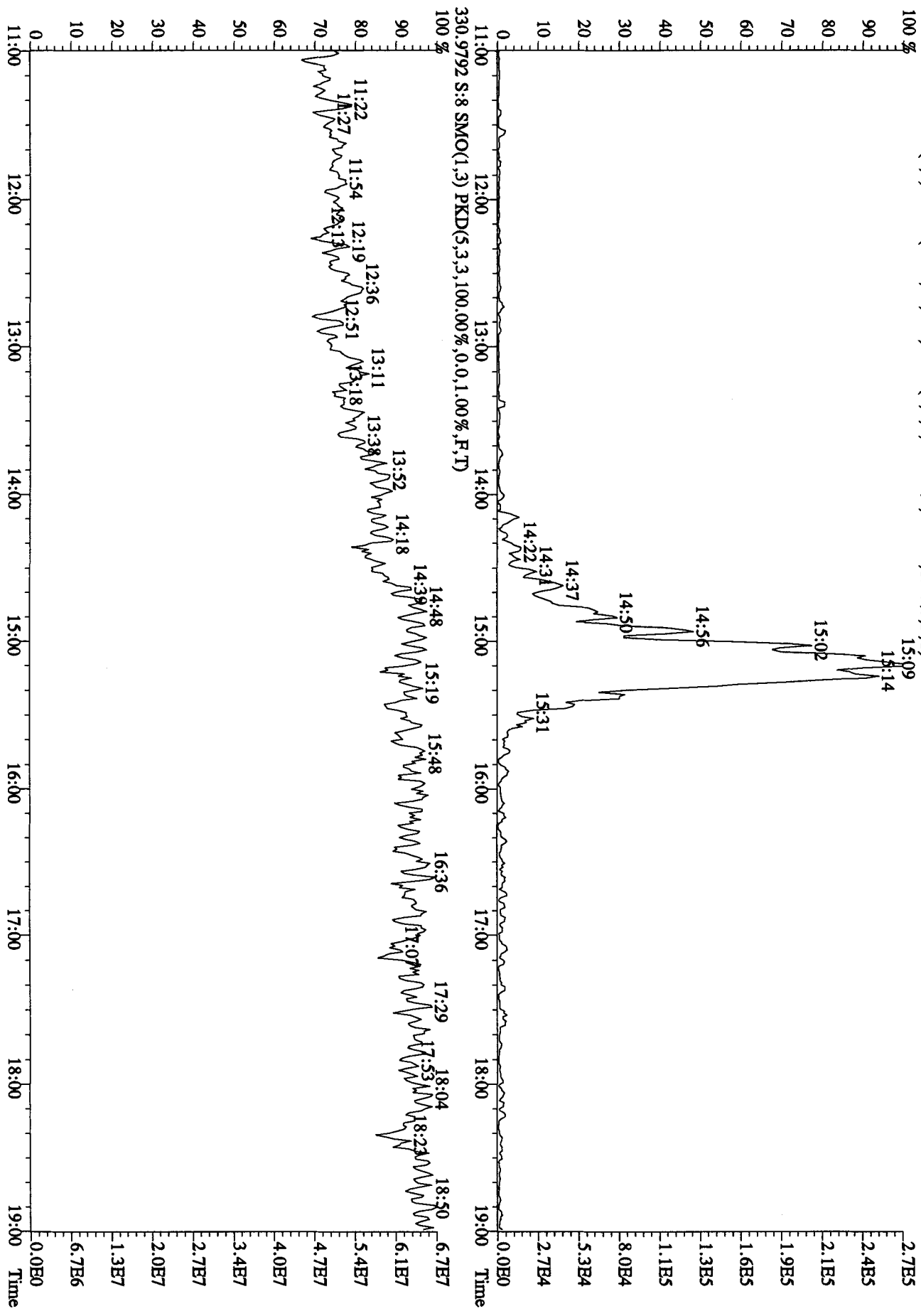
File:18OC10A5D2 #1-1242 Acq:18-OCT-2010 17:27:53 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:L78WG-1-AA :G01090500-7 Exp:DB225RES  
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4528.0,1.00%,F,T)  
 100% A1.53BE6



File: 18OCT10A5D2 #1-1242 Acq: 18-OCT-2010 17:27:53 GC EI+ Voltage SIR 70SE  
 Sample#8 Text: L78WG-1-AA :G01090500-7 Exp: DB225RES  
 327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6164,0,1.00%,F,T)  
 100% A6.09E7



File: 18OCT10A5D2 #1-1242 Acq: 18-OCT-2010 17:27:53 GC HI+ Voltage S1R 70SE  
 Sample#8 Text: L78WG-1-AA :G01090500-7 Exp: DB225RES  
 375.8364 S: 8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1248.0,1.00%,F,T)



Run text: L78WH-1-AA      Sample text: L78WH-1-AA :G0J090500-8  
 Run #11 Filename: 14OC104D5    S: 36    I: 1      Results: 14OC104D5T09SY  
 Acquired: 15-OCT-10    12:05:23      Processed: 15-OCT-10    18:33:12  
 Run: 14OC104D5      Analyte: TO9      Cal: TO90721104D5  
 Factor 1:1600.000      Factor 2:20.000      Sample size: 0.50    SAMP

*396*  
*10/18/10*

| Name                    | Resp      | RA     | RT     | RRF  | Conc                      | EDL              | Rec   | M |
|-------------------------|-----------|--------|--------|------|---------------------------|------------------|-------|---|
| 13C-1,2,3,4-TCDD        | 114839600 | 0.80 y | 20:05  | -    | 68.768                    | -                | -     | n |
| 13C-2,3,7,8-TCDF        | 147820100 | 0.78 y | 19:29  | 1.23 | 4188.213                  | 4.014            | 104.7 | n |
| 2,3,7,8-TCDF            | 572436    | 0.80 y | 19:31  | 0.99 | 15.576 /                  | 1.569            | -     | n |
| Total TCDF              | 2970095   | 0.65 n | 16:43  | 0.99 | 80.814 /                  | 1.569            | -     | y |
| 13C-2,3,7,8-TCDD        | 108628400 | 0.80 y | 20:18  | 0.91 | 4180.579                  | 7.216            | 104.5 | n |
| 2,3,7,8-TCDD            | *         | * n    | NotFnd | 0.98 | *                         | 2.027            | -     | n |
| Total TCDD              | 150400    | 0.90 n | 17:44  | 0.98 | 5.631 /                   | 2.027            | -     | n |
| 37Cl-2,3,7,8-TCDD       | 59897600  | 1.00 y | 20:19  | 1.33 | 1663.258                  | 1.435            | 104.0 | n |
| 13C-1,2,3,7,8-PeCDF     | 111186600 | 1.57 y | 25:23  | 0.88 | 4420.710 /                | 11.733           | 110.5 | n |
| 1,2,3,7,8-PeCDF         | 413214    | 1.67 y | 25:23  | 1.08 | 13.807 /                  | 2.625            | -     | n |
| 2,3,4,7,8-PeCDF         | 172688    | 1.88 n | 27:00  | 1.05 | 5.942 /                   | 2.703            | -     | n |
| Total F2 PeCDF          | 2317013   | 1.13 n | 23:32  | 1.06 | <del>78.440</del>         | 2.663            | -     | n |
| Total F1 PeCDF          | 256599    | 0.32 n | 15:16  | 1.06 | <del>8.700</del> 73.296   | <del>2.251</del> | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 74557400  | 1.59 y | 27:50  | 0.66 | 3929.821                  | 2.670            | 98.2  | n |
| 1,2,3,7,8-PeCDD         | 20454     | 0.79 n | 27:51  | 0.93 | <del>1.186</del>          | 3.645            | -     | n |
| Total PeCDD             | 184832    | 1.62 y | 23:48  | 0.93 | <del>10.715</del> 7.832   | 3.645            | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 70253000  | 1.31 y | 33:26  | -    | 59.336                    | -                | -     | n |
| 13C-1,2,3,4,7,8-HxCDF   | 63725400  | 0.50 y | 32:20  | 1.04 | 3472.803                  | 2.616            | 86.8  | n |
| 1,2,3,4,7,8-HxCDF       | 518963    | 1.26 y | 32:21  | 1.22 | 26.761 /                  | 1.810            | -     | y |
| 1,2,3,6,7,8-HxCDF       | 399609    | 1.15 y | 32:27  | 1.28 | 19.571 /                  | 1.719            | -     | y |
| 2,3,4,6,7,8-HxCDF       | 139841    | 0.99 n | 32:56  | 1.23 | 7.117 /                   | 1.786            | -     | y |
| 1,2,3,7,8,9-HxCDF       | 52653     | 0.99 n | 33:37  | 1.10 | 3.010 /                   | 2.006            | -     | y |
| Total HxCDF             | 2587617   | 1.03 n | 31:08  | 1.21 | 133.207 /                 | 1.824            | -     | y |
| 13C-1,2,3,6,7,8-HxCDD   | 59314100  | 1.28 y | 33:10  | 0.83 | 4065.007                  | 2.936            | 101.6 | n |
| 1,2,3,4,7,8-HxCDD       | 16816     | 1.40 y | 33:06  | 1.04 | <del>1.093</del>          | 2.026            | -     | y |
| 1,2,3,6,7,8-HxCDD       | 37983     | 1.21 y | 33:11  | 1.16 | 2.203 /                   | 1.807            | -     | y |
| 1,2,3,7,8,9-HxCDD       | 27922     | 1.10 y | 33:28  | 1.18 | <del>1.593</del>          | 1.779            | -     | y |
| Total HxCDD             | 202184    | 0.87 n | 32:21  | 1.13 | <del>12.037</del> 9.351   | 1.864            | -     | y |
| 13C-1,2,3,4,6,7,8-HpCDF | 57771200  | 0.45 y | 34:57  | 0.91 | 3614.551                  | 11.217           | 90.4  | n |
| 1,2,3,4,6,7,8-HpCDF     | 1491302   | 1.01 y | 34:58  | 1.35 | 76.726 /                  | 2.107            | -     | n |
| 1,2,3,4,7,8,9-HpCDF     | 400946    | 1.23 n | 36:08  | 1.09 | 25.389 /                  | 2.593            | -     | n |
| Total HpCDF             | 2666056   | 1.01 y | 34:58  | 1.22 | 146.045 /                 | 2.324            | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDD | 55145100  | 1.06 y | 35:47  | 0.83 | 3798.425 /                | 9.149            | 95.0  | n |
| 1,2,3,4,6,7,8-HpCDD     | 138510    | 1.14 y | 35:48  | 1.07 | 9.375 /                   | 1.736            | -     | n |
| Total HpCDD             | 282476    | 1.56 n | 34:57  | 1.07 | <del>19.119</del> (6.741) | 1.736            | -     | n |
| 13C-OCDD                | 75655800  | 0.89 y | 38:22  | 0.62 | 6948.914                  | 8.535            | 86.9  | n |
| OCDF                    | 2205170   | 0.92 y | 38:30  | 1.37 | 170.167 /                 | 3.179            | -     | n |

OCDD

242290 0.99 y 38:22 1.20

J B

21.362 /

1.996

- y



Run text: L78WH-1-AA Sample text: L78WH-1-AA :G0J090500-8  
 Run #11 Filename: 14OC104D5 S: 36 I: 1 Results: 14OC104D5T09  
 Acquired: 15-OCT-10 12:05:23 Processed: 15-OCT-10 14:57:37  
 Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5  
 Factor 1:1600.000 Factor 2:20.000 Sample size: 0.50 SAMP

| Name                    | Resp      | RA     | RT     | RRF  | Conc              | EDL              | Rec   | M |
|-------------------------|-----------|--------|--------|------|-------------------|------------------|-------|---|
| 13C-1,2,3,4-TCDD        | 114839600 | 0.80 y | 20:05  | -    | 68.768            | -                | -     | n |
| 13C-2,3,7,8-TCDF        | 147820100 | 0.78 y | 19:29  | 1.23 | 4188.213          | 4.014            | 104.7 | n |
| 2,3,7,8-TCDF            | 572436    | 0.80 y | 19:31  | 0.99 | 15.576            | 1.569            | -     | n |
| Total TCDF              | 3138089   | 0.65 n | 16:43  | 0.99 | <del>85.385</del> | 1.569            | -     | n |
| 13C-2,3,7,8-TCDD        | 108628400 | 0.80 y | 20:18  | 0.91 | 4180.579          | 7.216            | 104.5 | n |
| 2,3,7,8-TCDD            | *         | * n    | NotFnd | 0.98 | *                 | 2.027            | -     | n |
| Total TCDD              | 150400    | 0.90 n | 17:44  | 0.98 | 5.631             | 2.027            | -     | n |
| 37Cl-2,3,7,8-TCDD       | 59897600  | 1.00 y | 20:19  | 1.33 | 1663.258          | 1.435            | 104.0 | n |
| 13C-1,2,3,7,8-PeCDF     | 111186600 | 1.57 y | 25:23  | 0.88 | 4420.710          | 11.733           | 110.5 | n |
| 1,2,3,7,8-PeCDF         | 413214    | 1.67 y | 25:23  | 1.08 | 13.807            | 2.625            | -     | n |
| 2,3,4,7,8-PeCDF         | 172688    | 1.88 n | 27:00  | 1.05 | 5.942             | 2.703            | -     | n |
| Total F2 PeCDF          | 2317013   | 1.13 n | 23:32  | 1.06 | <del>78.440</del> | 2.663            | -     | n |
| Total F1 PeCDF          | 256599    | 0.32 n | 15:16  | 1.06 | 8.700             | <del>2.231</del> | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 74557400  | 1.59 y | 27:50  | 0.66 | 3929.821          | 2.670            | 98.2  | n |
| 1,2,3,7,8-PeCDD         | 20454     | 0.79 n | 27:51  | 0.93 | <del>1.186</del>  | 3.645            | -     | n |
| Total PeCDD             | 184832    | 1.62 y | 23:48  | 0.93 | <del>10.715</del> | 3.645            | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 70253000  | 1.31 y | 33:26  | -    | 59.336            | -                | -     | n |
| 13C-1,2,3,4,7,8-HxCDF   | 63725400  | 0.50 y | 32:20  | 1.04 | 3472.803          | 2.616            | 86.8  | n |
| 1,2,3,4,7,8-HxCDF       | 601072    | 1.24 y | 32:21  | 1.22 | 30.996            | 1.810            | -     | n |
| 1,2,3,6,7,8-HxCDF       | 401523    | 1.15 y | 32:27  | 1.28 | 19.665            | 1.719            | -     | n |
| 2,3,4,6,7,8-HxCDF       | 218525    | 1.05 n | 32:56  | 1.23 | 11.121            | 1.786            | -     | n |
| 1,2,3,7,8,9-HxCDF       | 149377    | 1.26 y | 33:40  | 1.10 | 8.538             | 2.006            | -     | n |
| Total HxCDF             | 2617260   | 1.03 n | 31:08  | 1.21 | 135.124           | 1.824            | -     | n |
| 13C-1,2,3,6,7,8-HxCDD   | 59314100  | 1.28 y | 33:10  | 0.83 | 4065.007          | 2.936            | 101.6 | n |
| 1,2,3,4,7,8-HxCDD       | 17743     | 0.48 n | 33:06  | 1.04 | 1.154             | 2.026            | -     | n |
| 1,2,3,6,7,8-HxCDD       | 37522     | 1.02 n | 33:11  | 1.16 | 2.176             | 1.807            | -     | n |
| 1,2,3,7,8,9-HxCDD       | 39856     | 1.23 y | 33:28  | 1.18 | 2.275             | 1.779            | -     | n |
| Total HxCDD             | 281940    | 1.34 y | 31:51  | 1.13 | 16.781            | 1.864            | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDF | 57771200  | 0.45 y | 34:57  | 0.91 | 3614.551          | 11.217           | 90.4  | n |
| 1,2,3,4,6,7,8-HpCDF     | 1491302   | 1.01 y | 34:58  | 1.35 | 76.726            | 2.107            | -     | n |
| 1,2,3,4,7,8,9-HpCDF     | 400946    | 1.23 n | 36:08  | 1.09 | 25.389            | 2.593            | -     | n |
| Total HpCDF             | 2666056   | 1.01 y | 34:58  | 1.22 | 146.045           | 2.324            | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDD | 55145100  | 1.06 y | 35:47  | 0.83 | 3798.425          | 9.149            | 95.0  | n |
| 1,2,3,4,6,7,8-HpCDD     | 138510    | 1.14 y | 35:48  | 1.07 | 9.375             | 1.736            | -     | n |
| Total HpCDD             | 282476    | 1.56 n | 34:57  | 1.07 | 19.119            | 1.736            | -     | n |
| 13C-OCDD                | 75655800  | 0.89 y | 38:22  | 0.62 | 6948.914          | 8.535            | 86.9  | n |
| OCDF                    | 2205170   | 0.92 y | 38:30  | 1.37 | 170.167           | 3.179            | -     | n |
| OCDD                    | 215880    | 1.06 n | 38:22  | 1.20 | 19.034            | 1.996            | -     | n |

Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:15  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 42.692 of which 7.788 named and 34.905 unnamed  
 Conc: 85.385 of which 15.576 named and 69.809 unnamed

| Name         | #  | R.T.  | Ratio   | Conc.                        | Area             | S/N                   | >? | Mod? |
|--------------|----|-------|---------|------------------------------|------------------|-----------------------|----|------|
|              | 1  | 16:43 | 0.651 n | 3.863                        | 61757<br>94843   | 7.678<br>10.746       | y  | n    |
|              | 2  | 17:04 | 0.361 n | <del>0.951</del>             | 15209<br>42168   | <u>2.269</u><br>4.900 | n  | n    |
|              | 3  | 17:13 | 0.337 n | <del>0.900</del>             | 14395<br>42735   | <u>1.916</u><br>3.292 | n  | n    |
|              | 4  | 17:36 | 0.858 y | 15.915                       | 270113<br>314788 | 21.965<br>26.878      | y  | n    |
|              | 5  | 17:51 | 0.803 y | 8.075                        | 132151<br>164610 | 12.406<br>13.026      | y  | n    |
|              | 6  | 18:09 | 0.665 y | 6.020                        | 88350<br>132887  | 6.723<br>8.188        | y  | n    |
|              | 7  | 18:28 | 0.718 y | 8.562                        | 131546<br>183142 | 16.276<br>15.675      | y  | n    |
|              | 8  | 18:45 | 0.575 n | 5.646                        | 90268<br>157065  | 9.512<br>10.328       | y  | n    |
|              | 9  | 18:52 | 0.637 n | 5.660                        | 90492<br>142165  | 11.522<br>14.049      | y  | n    |
|              | 10 | 19:06 | 0.694 y | 9.422                        | 141823<br>204456 | 19.033<br>17.472      | y  | n    |
|              | 11 | 19:19 | 0.276 n | <del>0.974</del> <i>CEOL</i> | 15565<br>56469   | 2.663<br>4.196        | n  | n    |
| 2,3,7,8-TCDF | 12 | 19:31 | 0.799 y | 15.576                       | 254272<br>318164 | 22.049<br>25.565      | y  | n    |
|              | 13 | 19:58 | 0.534 n | 2.077                        | 33203<br>62185   | 3.613<br>6.357        | y  | n    |
|              | 14 | 20:19 | 0.259 n | <del>0.795</del>             | 12703<br>49118   | <u>1.604</u><br>3.902 | n  | n    |
|              | 15 | 21:38 | 0.976 n | <del>0.951</del>             | 19275<br>19751   | 1.545<br>1.860        | n  | n    |

*See PIA*

Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? yes #Hom:10  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 40.407 of which 7.788 named and 32.619 unnamed  
 Conc: 80.814 of which 15.576 named and 65.238 unnamed

| Name         | #  | R.T.  | Ratio   | Conc.  | Area             | S/N              | >? | Mod? |
|--------------|----|-------|---------|--------|------------------|------------------|----|------|
|              | 1  | 16:43 | 0.651 n | 3.863  | 61757<br>94843   | 7.678<br>10.746  | y  | n    |
|              | 2  | 17:36 | 0.858 y | 15.915 | 270113<br>314788 | 21.965<br>26.878 | y  | n    |
|              | 3  | 17:51 | 0.803 y | 8.075  | 132151<br>164610 | 12.406<br>13.026 | y  | n    |
|              | 4  | 18:09 | 0.665 y | 6.020  | 88351<br>132887  | 6.723<br>8.188   | y  | n    |
|              | 5  | 18:28 | 0.718 y | 8.562  | 131546<br>183142 | 16.276<br>15.675 | y  | n    |
|              | 6  | 18:45 | 0.575 n | 5.646  | 90267<br>157065  | 9.512<br>10.328  | y  | n    |
|              | 7  | 18:52 | 0.637 n | 5.660  | 90491<br>142165  | 11.522<br>14.049 | y  | n    |
|              | 8  | 19:06 | 0.694 y | 9.422  | 141822<br>204456 | 19.033<br>17.472 | y  | n    |
| 2,3,7,8-TCDF | 9  | 19:31 | 0.799 y | 15.576 | 254272<br>318164 | 22.049<br>25.565 | y  | n    |
|              | 10 | 19:58 | 0.534 n | 2.077  | 33203<br>62185   | 3.613<br>6.357   | y  | n    |

PIA

Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:2  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 2.816 of which \* named and 2.816 unnamed  
 Conc: 5.631 of which \* named and 5.631 unnamed

| Name | # | R.T.  | Ratio   | Conc. | Area  | S/N   | >? | Mod? |
|------|---|-------|---------|-------|-------|-------|----|------|
|      | 1 | 17:44 | 0.896 n | 2.423 | 32758 | 5.505 | y  | n    |
|      |   |       |         |       | 36565 | 3.379 | y  | n    |
|      | 2 | 18:05 | 0.887 n | 3.208 | 42936 | 8.208 | y  | n    |
|      |   |       |         |       | 48407 | 5.429 | y  | n    |

Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:11  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 39.220 of which 9.875 named and 29.345 unnamed  
 Conc: 78.440 of which 19.749 named and 58.691 unnamed

| Name            | #  | R.T.  | Ratio   | Conc.                | Area             | S/N              | >?     | Mod?   |
|-----------------|----|-------|---------|----------------------|------------------|------------------|--------|--------|
|                 | 1  | 23:32 | 1.126 n | 4.311 <sup>opz</sup> | 77294<br>68660   | 9.998<br>6.050   | y<br>y | n<br>n |
|                 | 2  | 23:49 | 1.568 y | 26.630               | 479567<br>305881 | 42.947<br>19.165 | y<br>y | n<br>n |
|                 | 3  | 24:03 | 0.659 n | 1.791                | 32104<br>48745   | 6.375<br>3.882   | y<br>y | n<br>n |
|                 | 4  | 24:07 | 0.886 n | 2.409                | 43184<br>48745   | 5.951<br>3.882   | y<br>y | n<br>n |
|                 | 5  | 24:24 | 4.093 n | 1.419                | 67186<br>16417   | 7.151<br>2.241   | y<br>n | n<br>n |
|                 | 6  | 24:52 | 1.881 n | 10.144               | 220708<br>117335 | 16.945<br>5.900  | y<br>y | n<br>n |
|                 | 7  | 25:15 | 1.948 n | 3.888                | 87594<br>44973   | 11.891<br>4.327  | y<br>y | n<br>n |
| 1,2,3,7,8-PeCDF | 8  | 25:23 | 1.669 y | 13.807               | 258418<br>154796 | 22.850<br>9.268  | y<br>y | n<br>n |
|                 | 9  | 25:46 | 1.260 n | 2.398                | 42999<br>34113   | 4.947<br>2.564   | y<br>n | n<br>n |
|                 | 10 | 26:05 | 2.047 n | 5.701                | 135002<br>65943  | 8.816<br>3.289   | y<br>y | n<br>n |
| 2,3,4,7,8-PeCDF | 11 | 27:00 | 1.880 n | 5.942                | 127324<br>67721  | 11.913<br>4.590  | y<br>y | n<br>n |

66.112  
 + 7.184(F1)  
 = 73.296

Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:5  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 4.350 of which \* named and 4.350 unnamed  
 Conc: 8.700 of which \* named and 8.700 unnamed

| Name | # | R.T.  | Ratio   | Conc. | Area            | S/N              | >?     | Mod?   |
|------|---|-------|---------|-------|-----------------|------------------|--------|--------|
|      | 1 | 15:16 | 0.317 n | 0.141 | 2530<br>7970    | 4.354<br>0.991   | y<br>n | n<br>n |
|      | 2 | 15:49 | 0.678 n | 0.216 | 3866<br>5698    | 5.557<br>0.840   | y<br>n | n<br>n |
|      | 3 | 17:03 | 0.227 n | 0.457 | 8185<br>36050   | 18.276<br>3.056  | y<br>y | n<br>n |
|      | 4 | 21:13 | 0.369 n | 0.702 | 12586<br>34141  | 13.442<br>2.751  | y<br>n | n<br>n |
|      | 5 | 22:00 | 1.434 y | 7.184 | 124857<br>87049 | 116.201<br>5.656 | y<br>y | n<br>n |

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Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:6  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 5.357 of which 0.593 named and 4.765 unnamed  
 Conc: 10.715 of which 1.186 named and 9.529 unnamed

| Name            | # | R.T.  | Ratio   | Conc. | Area           | S/N            | >?     | Mod?   |
|-----------------|---|-------|---------|-------|----------------|----------------|--------|--------|
|                 | 1 | 23:48 | 1.621 y | 0.670 | 7145<br>4409   | 1.056<br>2.371 | n<br>n | n<br>n |
|                 | 2 | 24:04 | 1.467 y | 3.832 | 39304<br>26792 | 2.887<br>8.988 | n<br>y | n<br>n |
|                 | 3 | 25:24 | 0.788 n | 2.158 | 22623<br>28708 | 3.218<br>8.331 | y<br>y | n<br>n |
|                 | 4 | 27:11 | 4.735 n | 2.442 | 78223<br>16522 | 6.362<br>5.075 | y<br>y | n<br>n |
|                 | 5 | 27:24 | 3.662 n | 0.428 | 10596<br>2894  | 1.492<br>1.308 | n<br>n | n<br>n |
| 1,2,3,7,8-PeCDD | 6 | 27:51 | 0.787 n | 1.186 | 12433<br>15800 | 2.635<br>6.274 | n<br>y | n<br>n |

Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:12  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 67.562 of which 35.160 named and 32.402 unnamed  
 Conc: 135.124 of which 70.320 named and 64.804 unnamed

| Name              | #  | R.T.  | Ratio   | Conc.  | Area             | S/N              | >?     | Mod?   |
|-------------------|----|-------|---------|--------|------------------|------------------|--------|--------|
|                   | 1  | 31:08 | 1.031 n | 13.997 | 149072<br>144559 | 19.697<br>24.576 | y<br>y | n<br>n |
|                   | 2  | 31:21 | 1.160 y | 27.860 | 287827<br>248164 | 33.904<br>36.562 | y<br>y | n<br>n |
|                   | 3  | 31:32 | 1.510 n | 1.881  | 24402<br>16157   | 3.508<br>2.592   | y<br>n | n<br>n |
|                   | 4  | 31:43 | 2.159 n | 2.715  | 50332<br>23317   | 6.023<br>5.898   | y<br>y | n<br>n |
|                   | 5  | 31:56 | 1.331 y | 4.258  | 46771<br>35146   | 4.591<br>5.735   | y<br>y | n<br>n |
| 1,2,3,4,7,8-HxCDF | 6  | 32:21 | 1.241 y | 30.996 | 332850<br>268222 | 43.975<br>51.201 | y<br>y | n<br>n |
| 1,2,3,6,7,8-HxCDF | 7  | 32:27 | 1.153 y | 19.665 | 215057<br>186466 | 27.615<br>37.589 | y<br>y | n<br>n |
|                   | 8  | 32:34 | 0.992 n | 7.112  | 75744<br>76384   | 9.265<br>13.881  | y<br>y | n<br>n |
|                   | 9  | 32:46 | 0.919 n | 6.394  | 68098<br>74123   | 6.234<br>11.129  | y<br>y | n<br>n |
| 2,3,4,6,7,8-HxCDF | 10 | 32:56 | 1.052 n | 11.121 | 120969<br>114968 | 11.938<br>16.274 | y<br>y | n<br>n |
|                   | 11 | 33:10 | 1.082 y | 0.587  | 5872<br>5425     | 1.081<br>1.370   | n<br>n | n<br>n |
| 1,2,3,7,8,9-HxCDF | 12 | 33:40 | 1.257 y | 8.538  | 83190<br>66186   | 7.585<br>9.022   | y<br>y | n<br>n |

*See P6A*

Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:7  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D7

Amount: 8.390 of which 2.802 named and 5.588 unnamed

Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? yes #Hom:14  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 66.604 of which 28.229 named and 38.374 unnamed  
 Conc: 133.207 of which 56.459 named and 76.748 unnamed

| Name              | #  | R.T.  | Ratio   | Conc.  | Area             | S/N              | >?     | Mod?   |
|-------------------|----|-------|---------|--------|------------------|------------------|--------|--------|
|                   | 1  | 31:08 | 1.031 n | 13.997 | 149072<br>144559 | 19.697<br>24.576 | y<br>y | n<br>n |
|                   | 2  | 31:21 | 1.160 y | 27.860 | 287827<br>248164 | 33.904<br>36.562 | y<br>y | n<br>n |
|                   | 3  | 31:32 | 1.510 n | 1.881  | 24402<br>16157   | 3.508<br>2.592   | y<br>n | n<br>n |
|                   | 4  | 31:43 | 2.159 n | 2.715  | 50332<br>23317   | 6.023<br>5.898   | y<br>y | n<br>n |
|                   | 5  | 31:56 | 1.331 y | 4.258  | 46771<br>35146   | 4.591<br>5.735   | y<br>y | n<br>n |
|                   | 6  | 32:17 | 1.154 y | 4.183  | 43117<br>37366   | 11.019<br>14.814 | y<br>y | y<br>y |
| 1,2,3,4,7,8-HxCDF | 7  | 32:21 | 1.257 y | 26.761 | 289049<br>229914 | 43.915<br>51.095 | y<br>y | y<br>y |
| 1,2,3,6,7,8-HxCDF | 8  | 32:27 | 1.154 y | 19.571 | 214102<br>185507 | 27.555<br>37.482 | y<br>y | y<br>y |
|                   | 9  | 32:34 | 0.995 n | 7.029  | 74856<br>75201   | 9.205<br>13.774  | y<br>y | y<br>y |
|                   | 10 | 32:46 | 0.933 n | 6.367  | 67805<br>72659   | 6.218<br>11.011  | y<br>y | y<br>y |
|                   | 11 | 32:55 | 0.554 n | 4.068  | 43328<br>78217   | 10.540<br>16.156 | y<br>y | y<br>y |
| 2,3,4,6,7,8-HxCDF | 12 | 32:56 | 0.990 n | 7.117  | 77412<br>78217   | 11.922<br>16.156 | y<br>y | y<br>y |
| 1,2,3,7,8,9-HxCDF | 13 | 33:37 | 0.993 n | 3.010  | 29147<br>29345   | 5.237<br>7.260   | y<br>y | y<br>y |
|                   | 14 | 33:40 | 1.451 n | 4.390  | 54695<br>37707   | 7.608<br>9.050   | y<br>y | y<br>y |

P6A



Conc: 16.781 of which 5.604 named and 11.177 unnamed

| Name              | # | R.T.  | Ratio | Conc. | Area              | S/N   | >?    | Mod? |
|-------------------|---|-------|-------|-------|-------------------|-------|-------|------|
|                   | 1 | 31:51 | 1.340 | y     | 1.1 <del>46</del> | 10970 | 3.622 | y n  |
|                   |   |       |       |       |                   | 8187  | 1.916 | n n  |
|                   | 2 | 32:21 | 0.873 | n     | 4.134             | 38248 | 8.327 | y n  |
|                   |   |       |       |       |                   | 43826 | 8.705 | y n  |
|                   | 3 | 32:24 | 0.643 | n     | 3.045             | 28179 | 4.915 | y n  |
|                   |   |       |       |       |                   | 43826 | 8.705 | y n  |
|                   | 4 | 32:35 | 1.536 | n     | 2.852             | 32684 | 7.030 | y n  |
|                   |   |       |       |       |                   | 21279 | 4.262 | y n  |
| 1,2,3,4,7,8-HxCDD | 5 | 33:06 | 0.484 | n     | 1.1 <del>54</del> | 9822  | 3.791 | y n  |
|                   |   |       |       |       |                   | 20303 | 3.005 | y n  |
| 1,2,3,6,7,8-HxCDD | 6 | 33:11 | 1.023 | n     | 2.176             | 20771 | 5.128 | y n  |
|                   |   |       |       |       |                   | 20303 | 3.005 | y n  |
| 1,2,3,7,8,9-HxCDD | 7 | 33:28 | 1.226 | y     | 2.275             | 21953 | 3.228 | y n  |
|                   |   |       |       |       |                   | 17904 | 3.521 | y n  |

See P 7A

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Run Text: L78WH-1-AA Sample text: L78WH-1-AA :G0J090500-8

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 73.022 of which 51.057 named and 21.965 unnamed  
 Conc: 146.045 of which 102.114 named and 43.930 unnamed

| Name                | # | R.T.  | Ratio | Conc. | Area   | S/N    | >?      | Mod? |
|---------------------|---|-------|-------|-------|--------|--------|---------|------|
| 1,2,3,4,6,7,8-HpCDF | 1 | 34:58 | 1.011 | y     | 76.726 | 749724 | 110.940 | y n  |
|                     |   |       |       |       |        | 741578 | 101.654 | y n  |
|                     | 2 | 35:10 | 1.215 | n     | 18.518 | 194236 | 28.229  | y n  |
|                     |   |       |       |       |        | 159892 | 20.836  | y n  |
|                     | 3 | 35:16 | 0.970 | y     | 25.412 | 220423 | 35.213  | y n  |
|                     |   |       |       |       |        | 227206 | 28.374  | y n  |
| 1,2,3,4,7,8,9-HpCDF | 4 | 36:08 | 1.228 | n     | 25.389 | 241423 | 27.759  | y n  |
|                     |   |       |       |       |        | 196542 | 18.508  | y n  |

Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? yes #Hom:5  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 6.018 of which 2.445 named and 3.573 unnamed  
 Conc: 12.037 of which 4.890 named and 7.147 unnamed

| Name              | # | R.T.  | Ratio | Conc. | Area             | S/N   | >?    | Mod? |
|-------------------|---|-------|-------|-------|------------------|-------|-------|------|
|                   | 1 | 32:21 | 0.873 | n     | 4.134            | 38248 | 8.327 | y n  |
|                   |   |       |       |       |                  | 43826 | 8.705 | y n  |
|                   | 2 | 32:35 | 1.367 | y     | 3.013            | 29091 | 6.744 | y y  |
|                   |   |       |       |       |                  | 21279 | 4.262 | y n  |
| 1,2,3,4,7,8-HxCDD | 3 | 33:06 | 1.404 | y     | <del>1.093</del> | 9822  | 3.791 | y n  |
|                   |   |       |       |       |                  | 6995  | 2.191 | n y  |
| 1,2,3,6,7,8-HxCDD | 4 | 33:11 | 1.207 | y     | 2.203            | 20771 | 5.128 | y n  |
|                   |   |       |       |       |                  | 17212 | 3.049 | y y  |
| 1,2,3,7,8,9-HxCDD | 5 | 33:28 | 1.101 | y     | <del>1.593</del> | 14635 | 3.234 | y y  |
|                   |   |       |       |       |                  | 13287 | 3.546 | y y  |

P7A

9.351

Run Text: L78WH-1-AA

Sample text: L78WH-1-AA :G0J090500-8

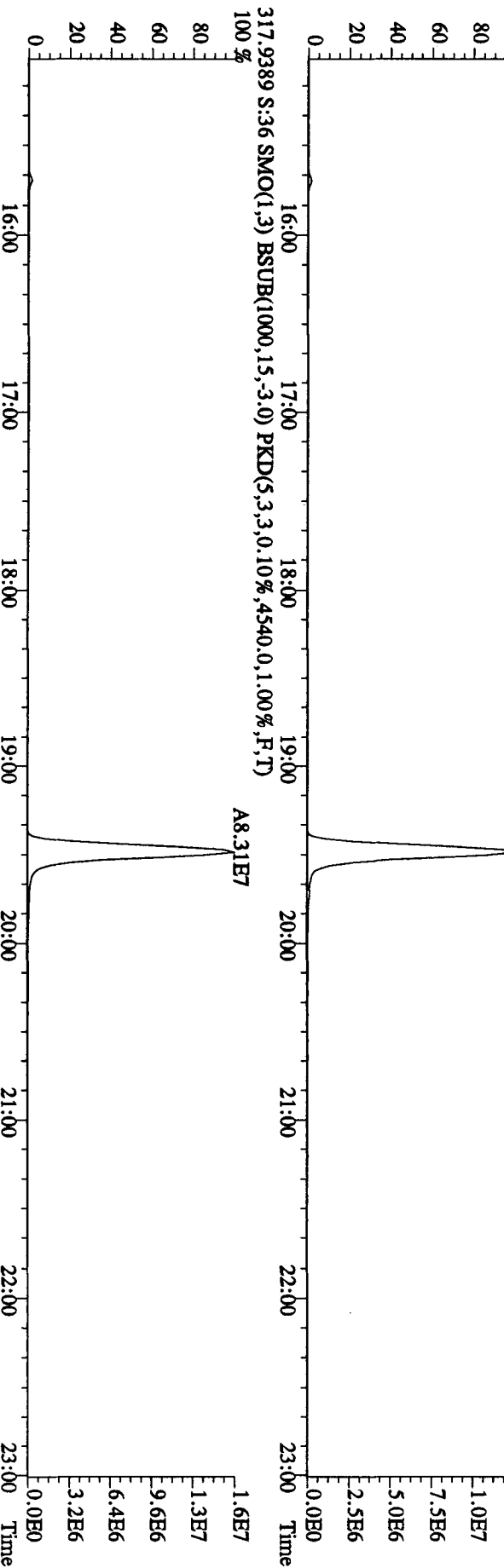
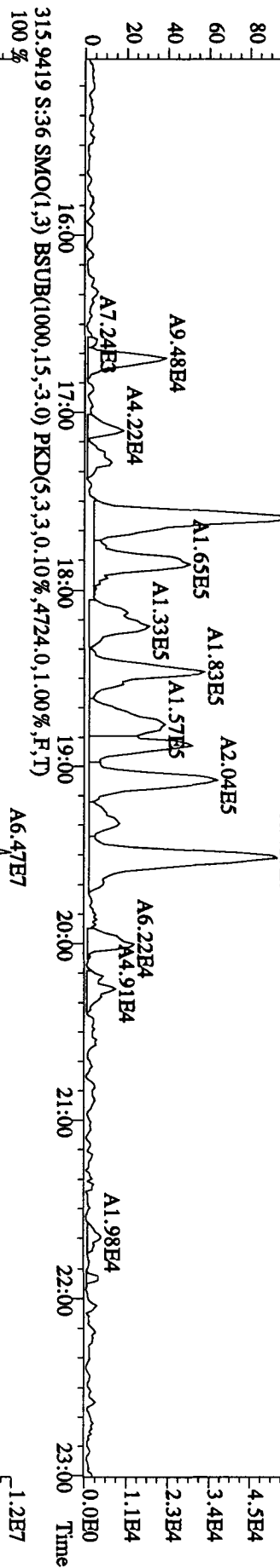
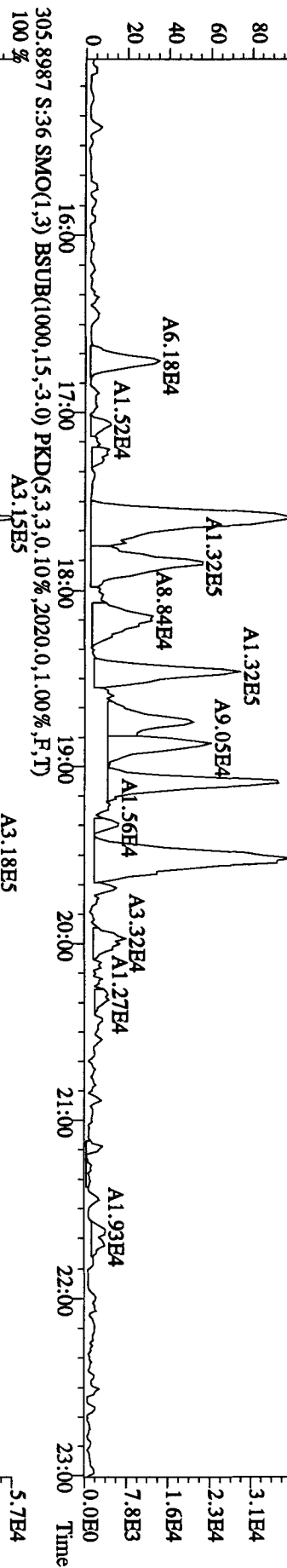
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4  
 Run: 11 File: 14OC104D5 S:36 Acq:15-OCT-10 12:05:23  
 Tables: Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5

Amount: 9.559 of which 4.687 named and 4.872 unnamed  
 Conc: 19.119 of which 9.375 named and 9.744 unnamed

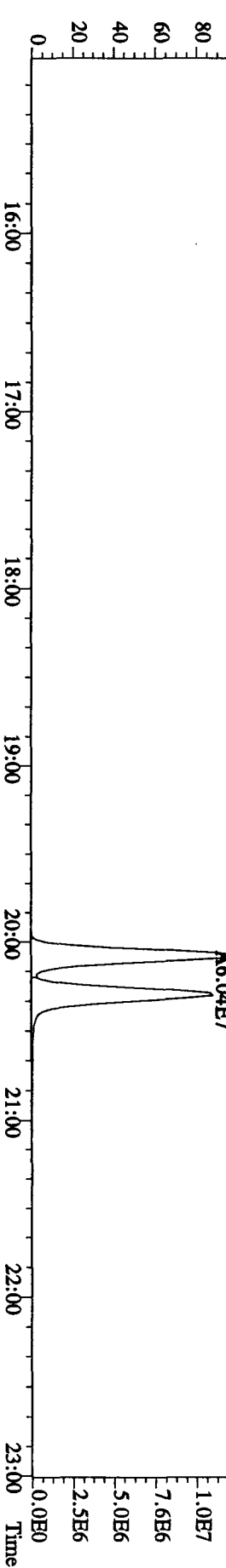
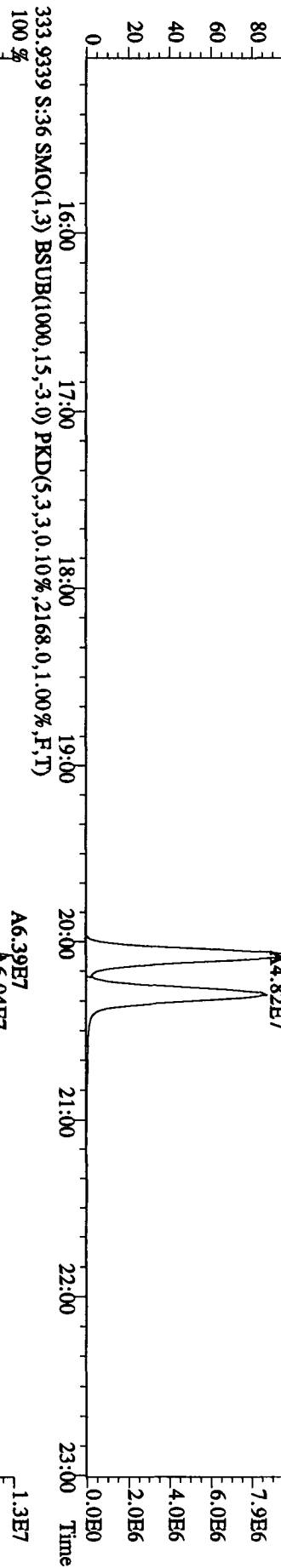
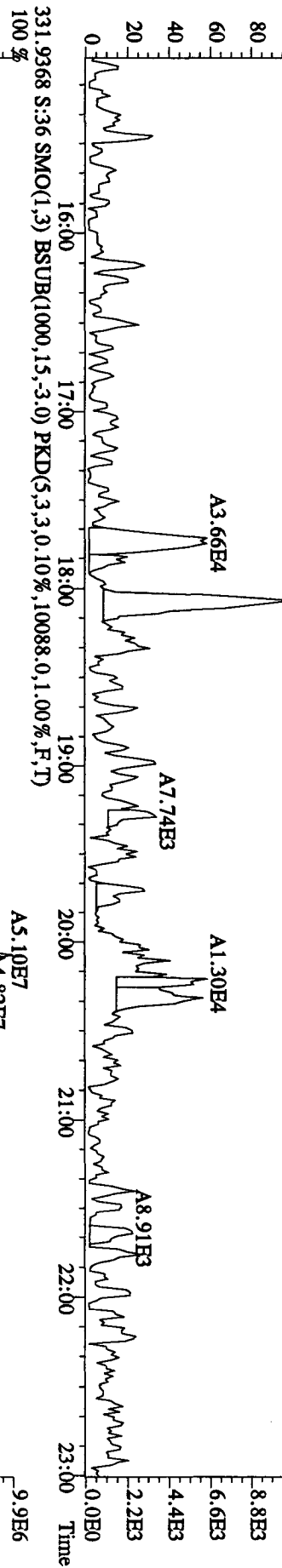
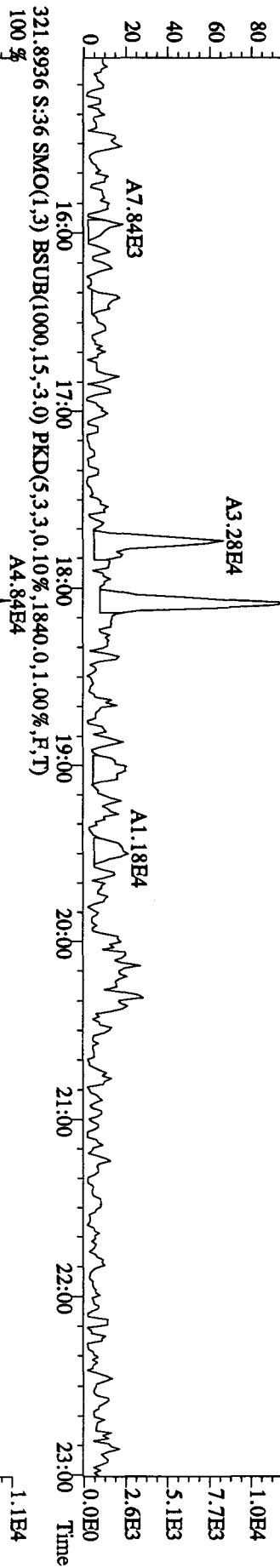
| Name                | # | R.T.  | Ratio   | Conc.            | Area           | S/N              | >? | Mod? |
|---------------------|---|-------|---------|------------------|----------------|------------------|----|------|
|                     | 1 | 34:57 | 1.563 n | <del>1.440</del> | 16296<br>10429 | 3.973<br>4.071   | y  | n    |
|                     | 2 | 35:12 | 0.989 y | 7.366 /          | 54122<br>54702 | 9.663<br>15.838  | y  | n    |
| 1,2,3,4,6,7,8-HpCDD | 3 | 35:48 | 1.141 y | 9.375 /          | 73831<br>64680 | 11.128<br>17.540 | y  | n    |
|                     | 4 | 36:07 | 2.084 n | <del>0.939</del> | 14163<br>6797  | 3.082<br>2.545   | y  | n    |

16-741

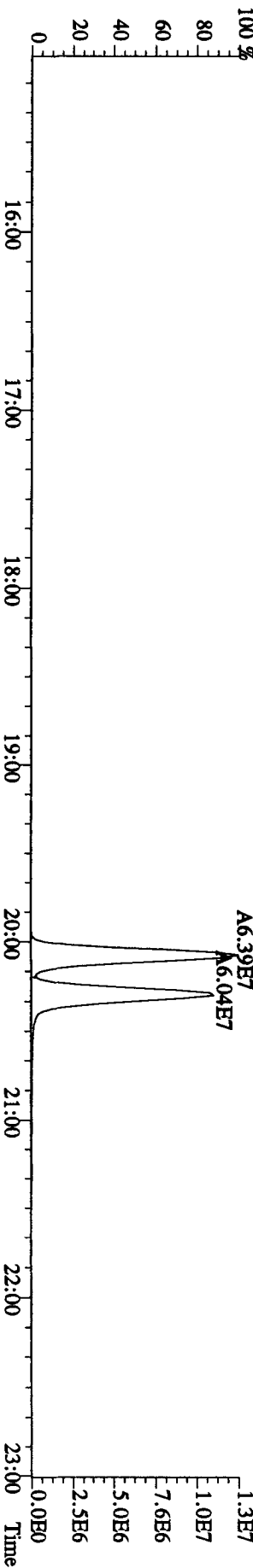
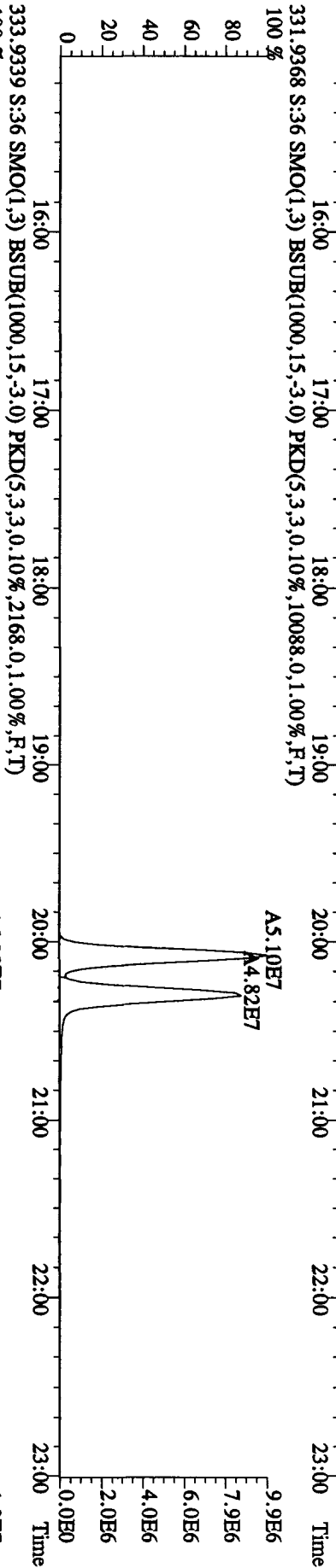
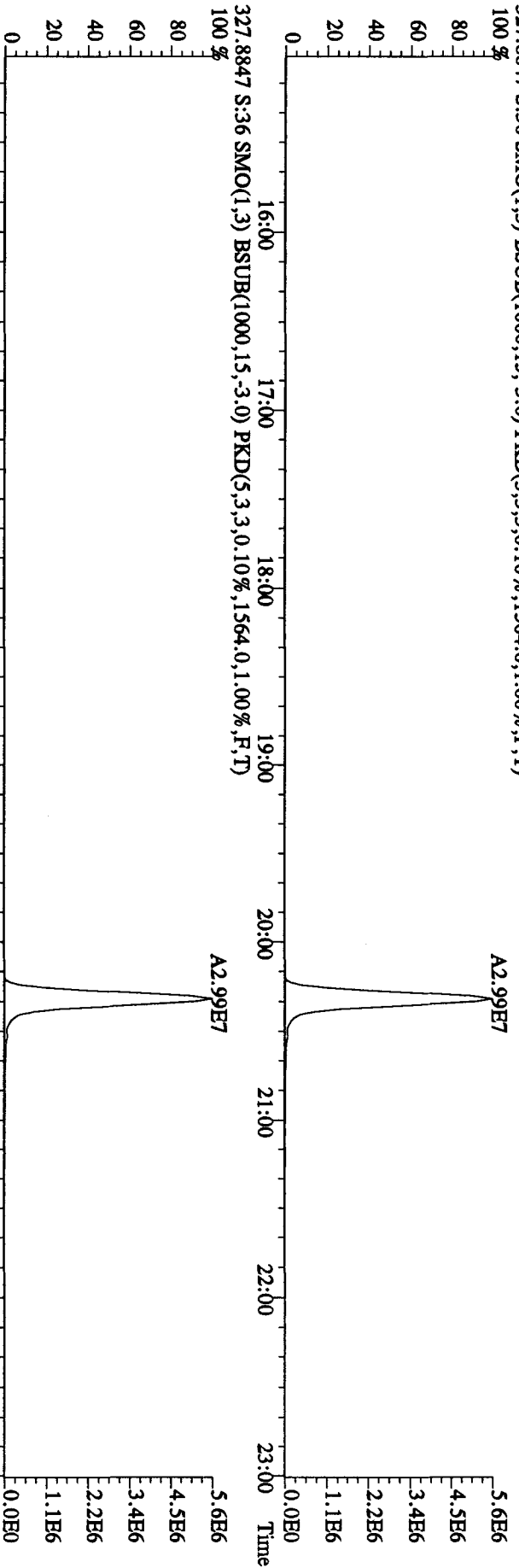
File:140C104D5 #1-530 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#36 Text:L78WH-1-AA :G0J090500-8 Exp:DIOXINRES  
 303.9016 S:3.6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1688.0,1.00%,F,T)  
 100%



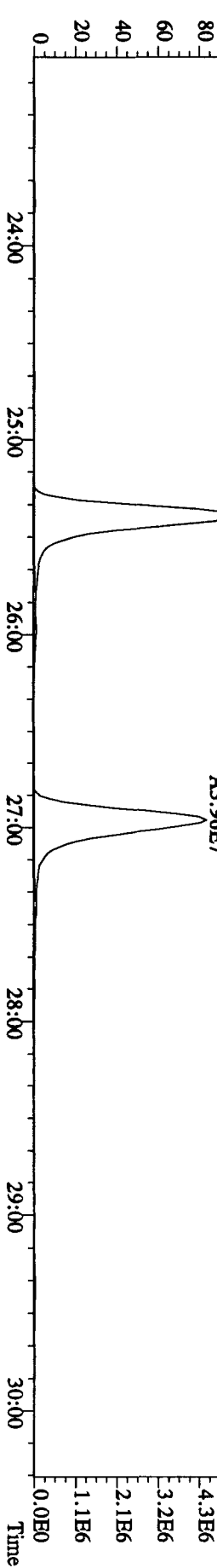
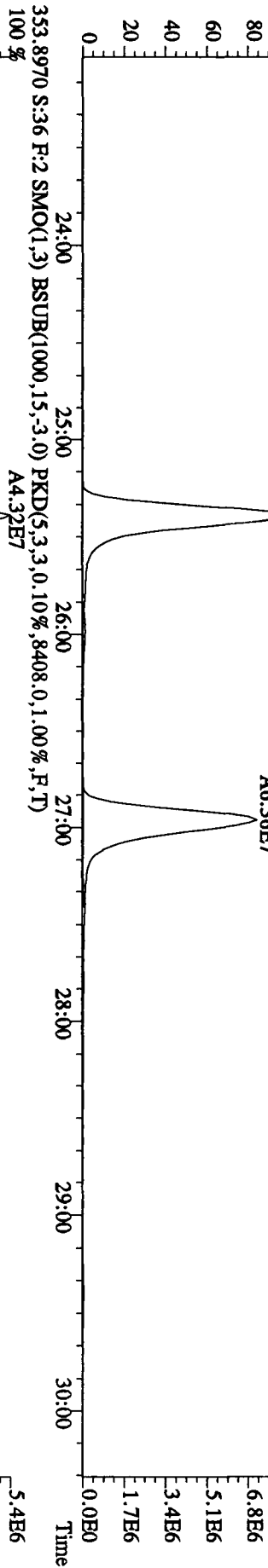
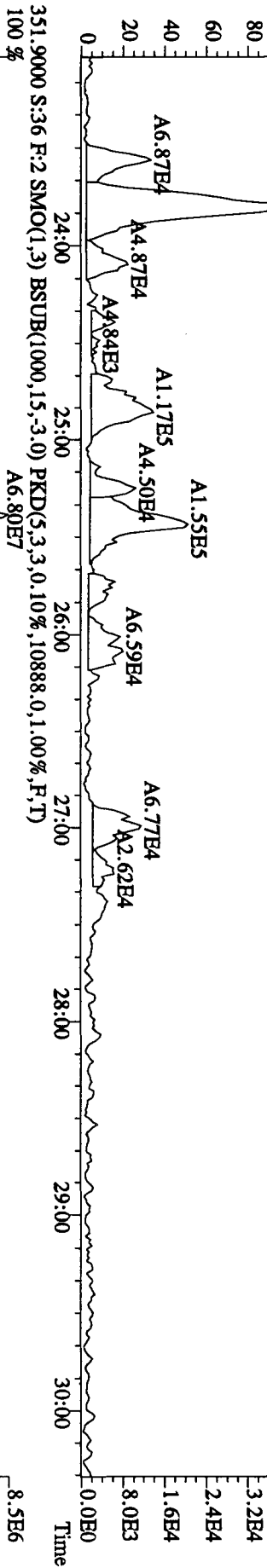
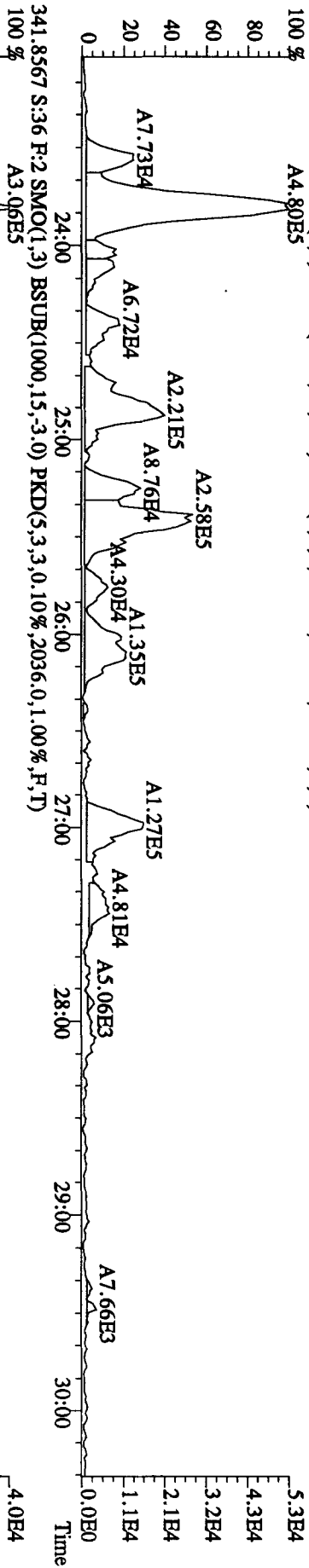
File:14OC104D5 #1-530 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text:L78WH-1-AA :G01090500-8 Exp:DIOXINRES  
 319.8965 S:3:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1436.0,1.00%,F,T) A4.29E4  
 100 %



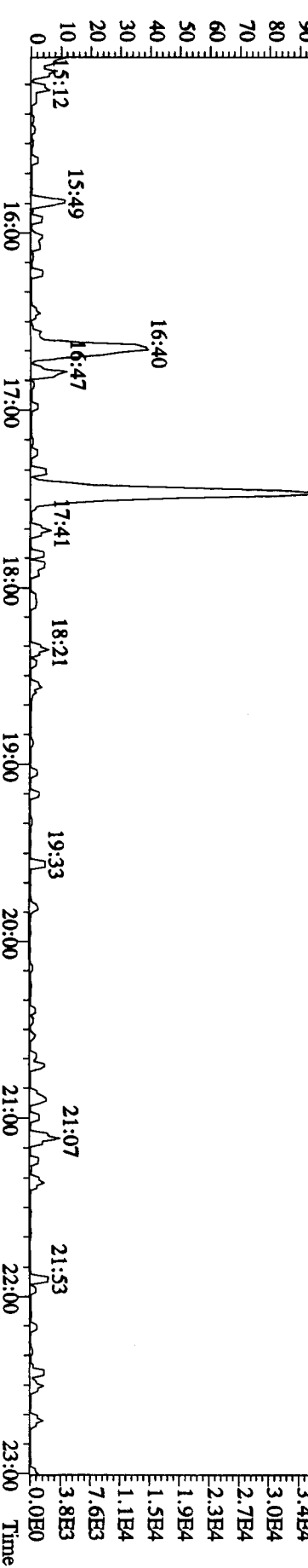
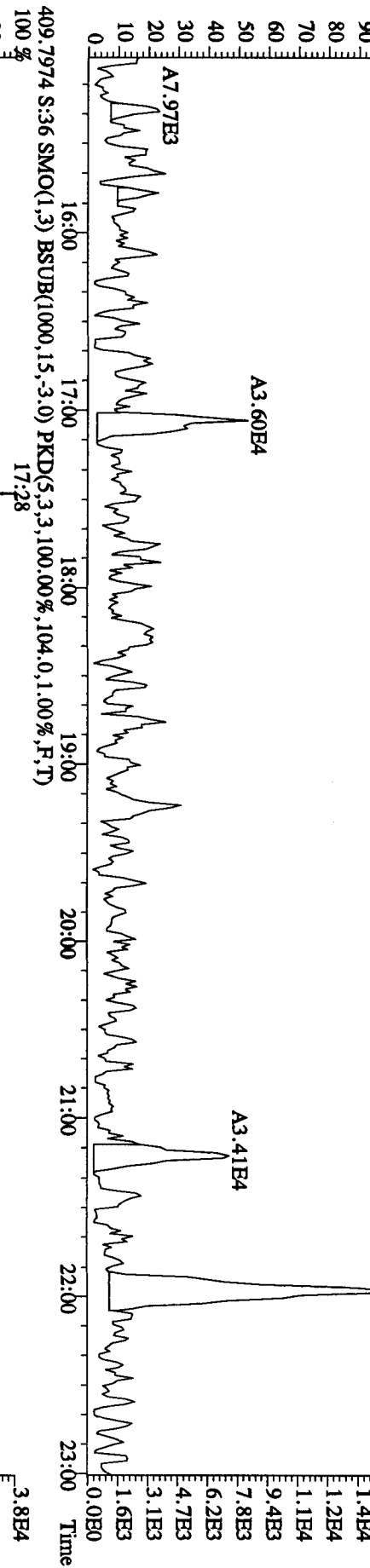
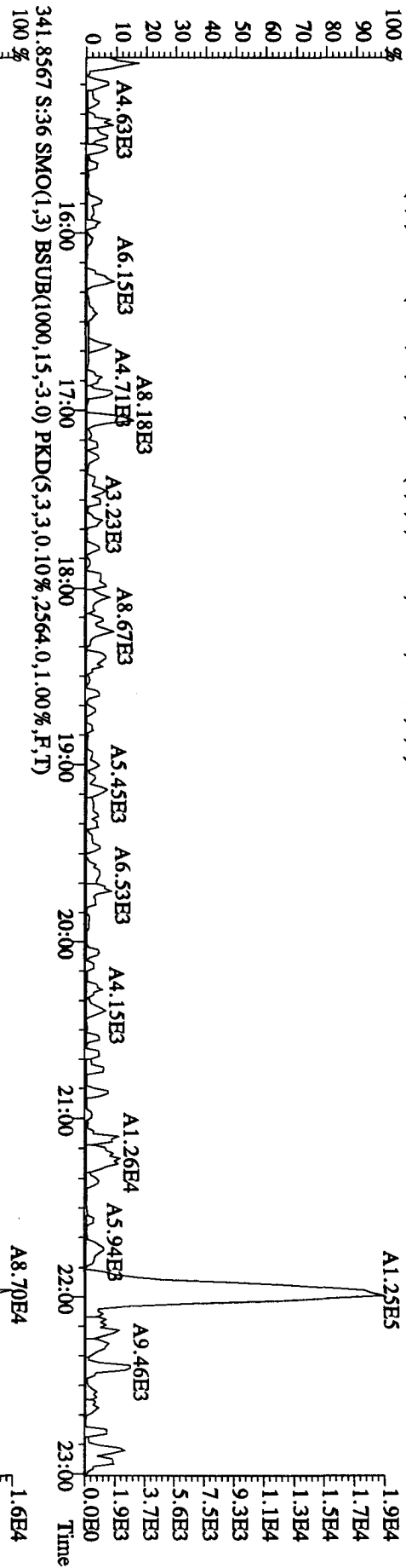
File:14OC104D5 #1-530 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-UltimaE  
Sample#36 Text:L78WH-1-AA :G01090500-8 Exp:DIOXINRES  
327.8847 S:3:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1564.0,1.00%,F,T)  
100%



File:14OC104D5 #1-470 Acq:15-OCT-2010 12:05:23 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#36 Text:L78WH-1-AA :G0J090500-8 Exp:DIOXINRES  
 339.8597 S:3.6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1216.0,1.00%,F,T)

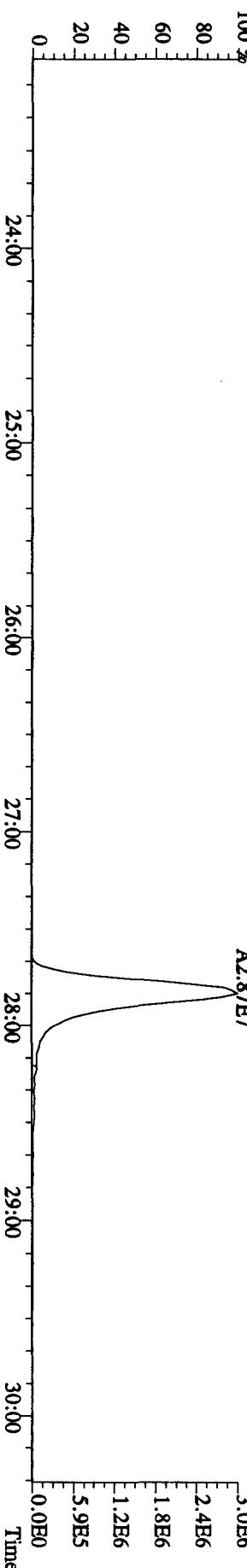
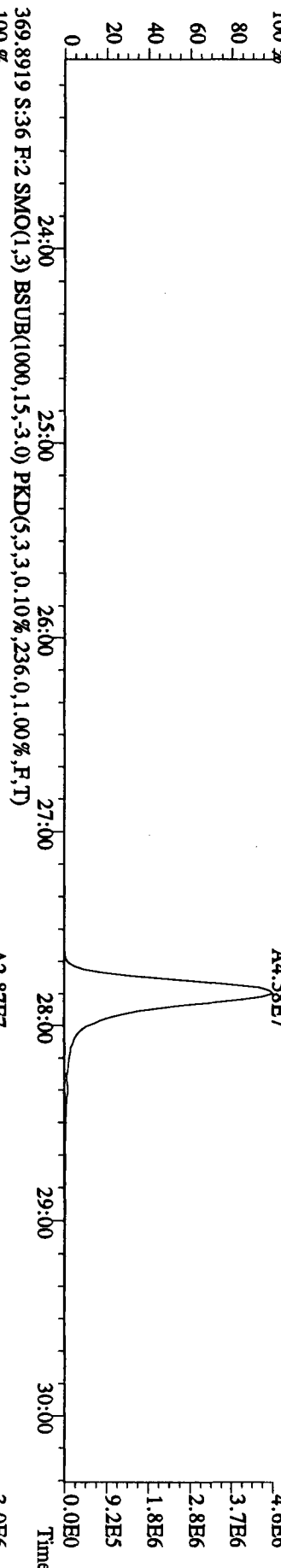
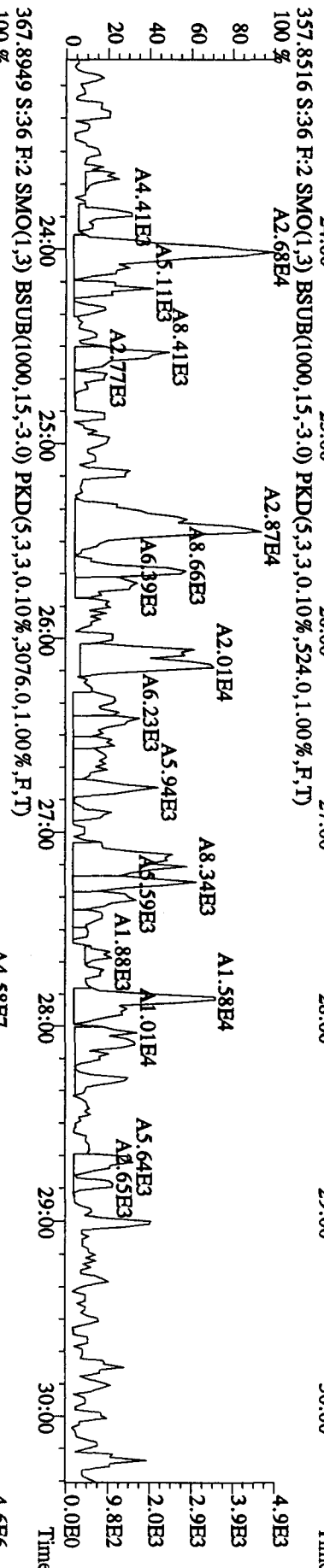
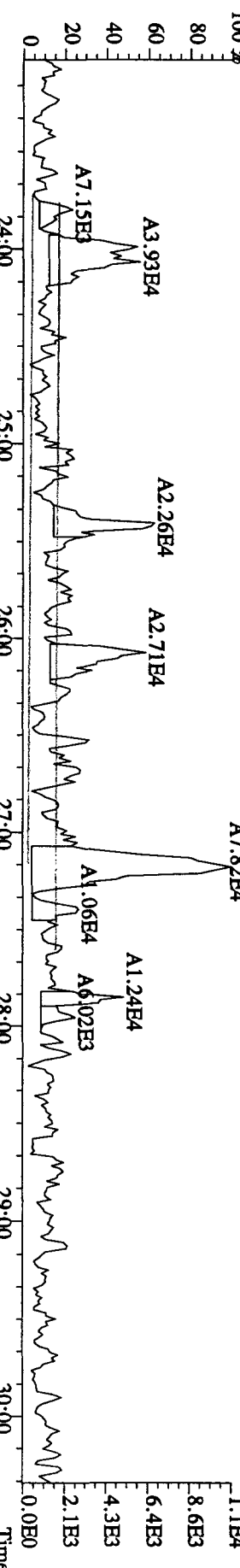


File: 14OC104D5 #1-530 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text:L78WH-1-AA :G0J090500-8 Exp:DIOXINRES  
 339 8597 S:36 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,160,0,1.00%,F,T)

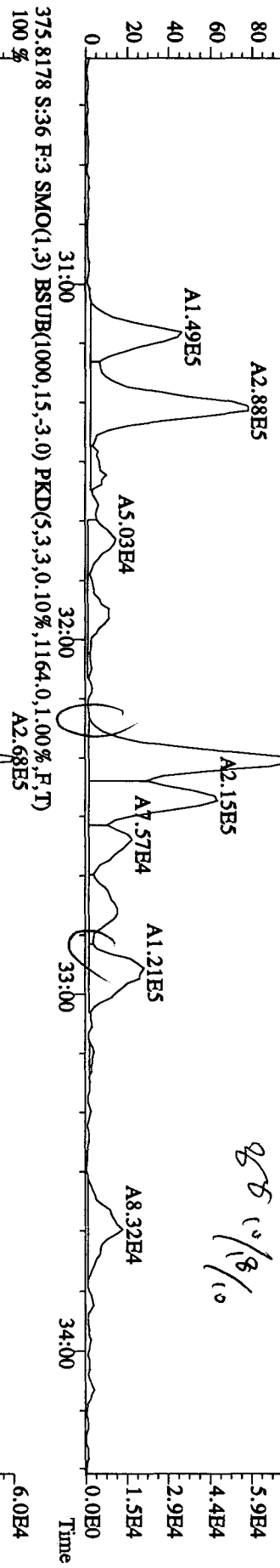




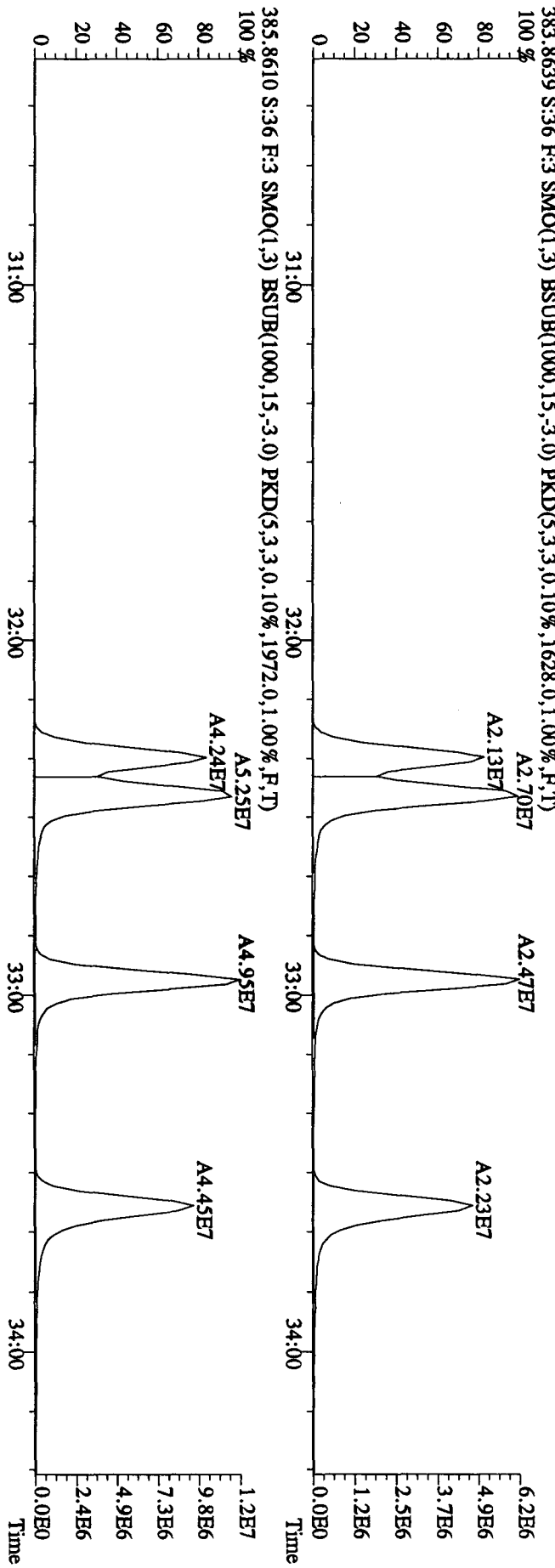
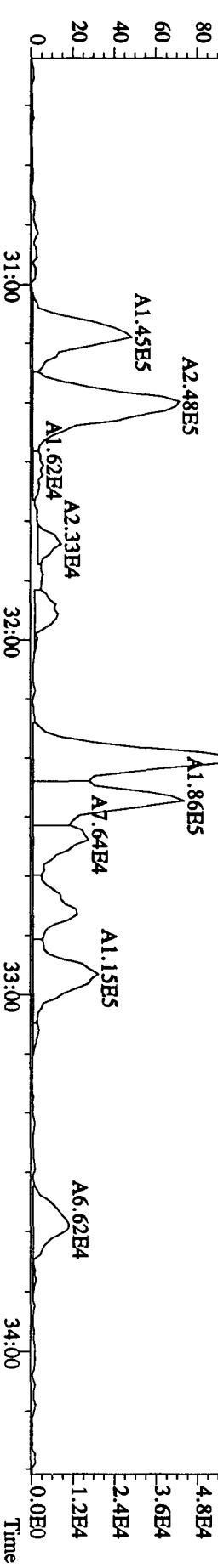
File: 140C104D5 #1-470 Acq: 15-OCT-2010 12:05:23 GC FI + Voltage SIR Autospec-Ultimate  
 Sample#36 Text: L78WH-1-AA : G0J090500-8 Exp: DIOXINRES  
 355.8546 S:3.6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1616,0,1.00%,F,T)



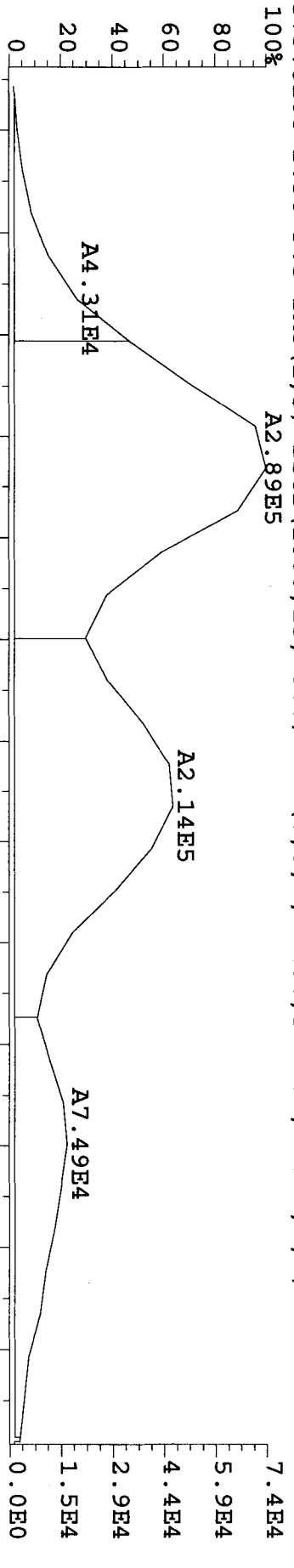
File: 140C104D5 #1-287 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text:L78WH-1-AA :G0J090500-8 Exp:DIOXINRES  
 373.8208 S:3.6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1648.0,1.00%,F,T)  
 100 % A3.33E5



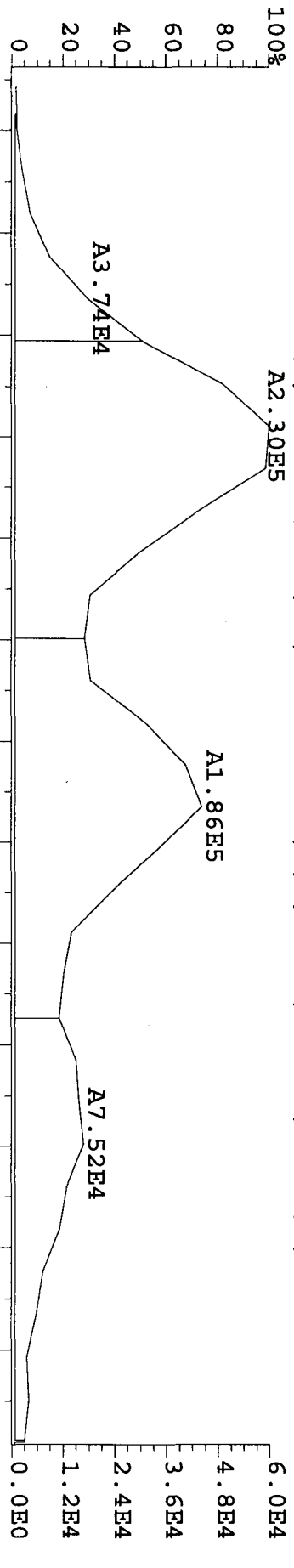
*25 10/18/10*



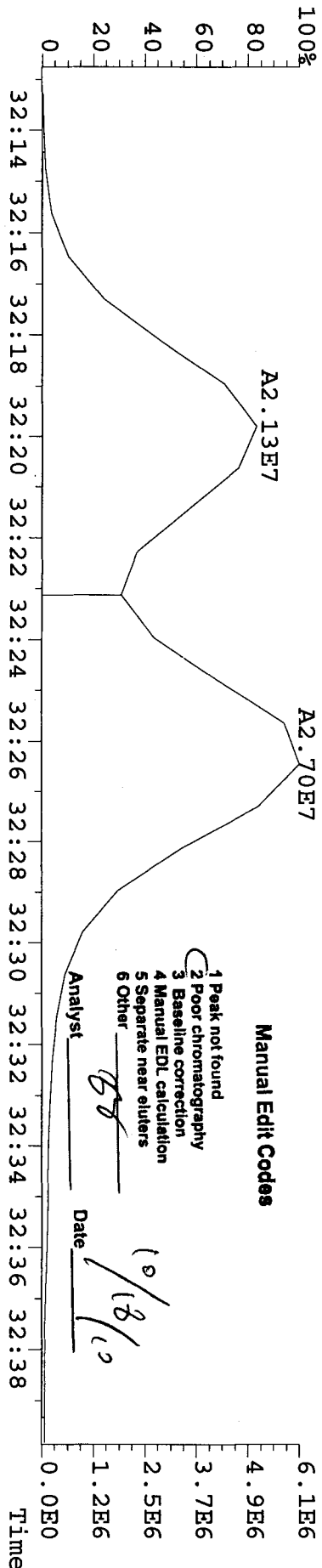
File: 14OCT104D5 #1-287 Acq: 15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text: L78WH-1-AA : G0J090500-8 Exp: DIOXINRES  
 373.8208 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1648.0,1.00%,F,T)  
 100%



375.8178 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)  
 100%



383.8639 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1628.0,1.00%,F,T)  
 100%



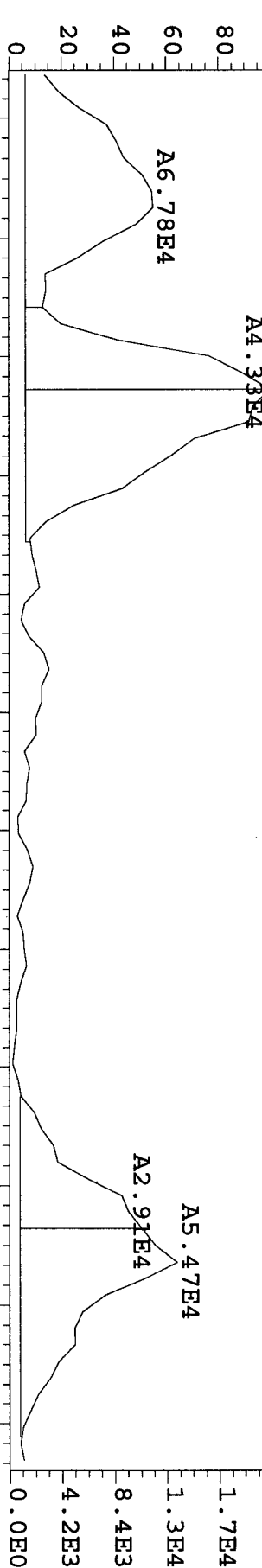
**Manual Edit Codes**

- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

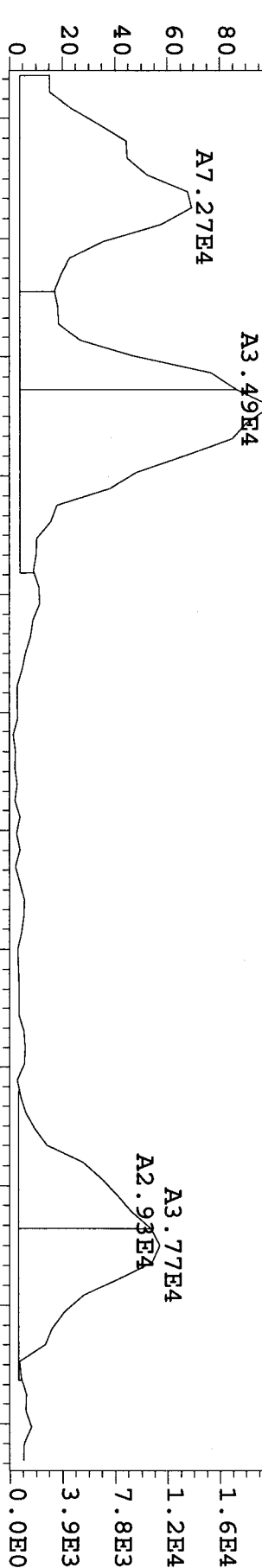
Analyst: *[Signature]* Date: 10/18/10

File: 14OC104D5 #1-287 Acq: 15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text: L78WH-1-AA : G0J090500-8 Exp: DIOXINRES

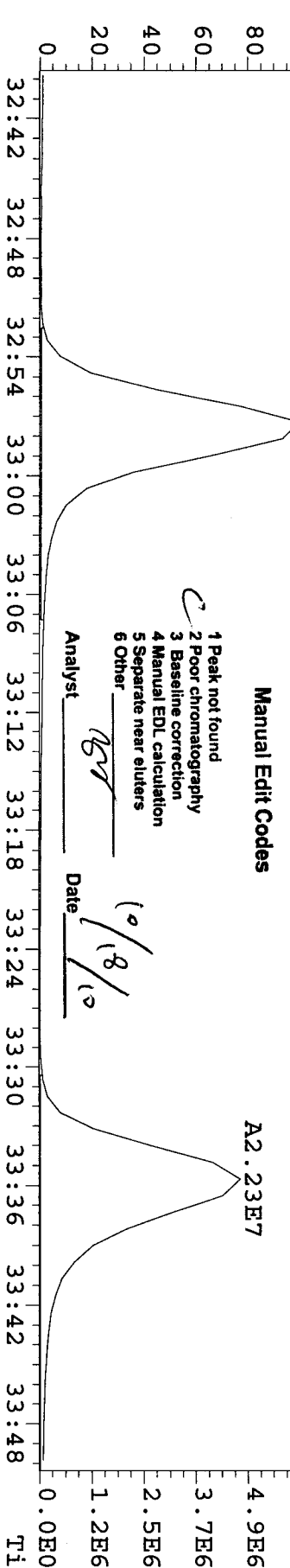
373.8208 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1648.0,1.00%,F,T)  
 100%



375.8178 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)  
 100%



383.8639 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1628.0,1.00%,F,T)  
 100%

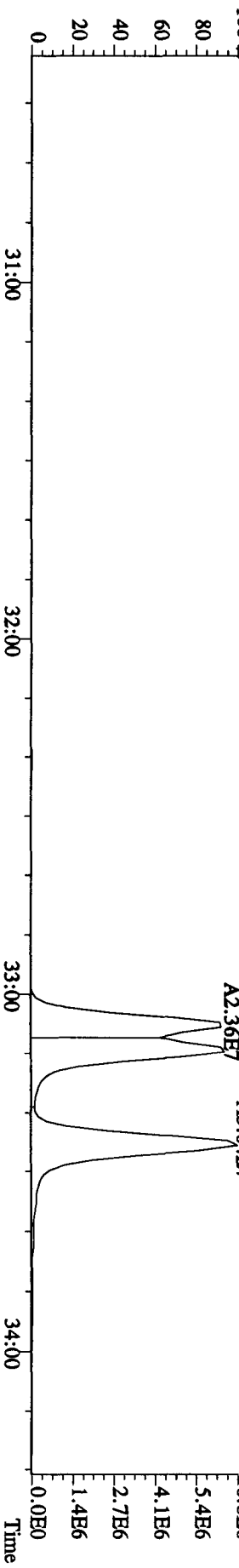
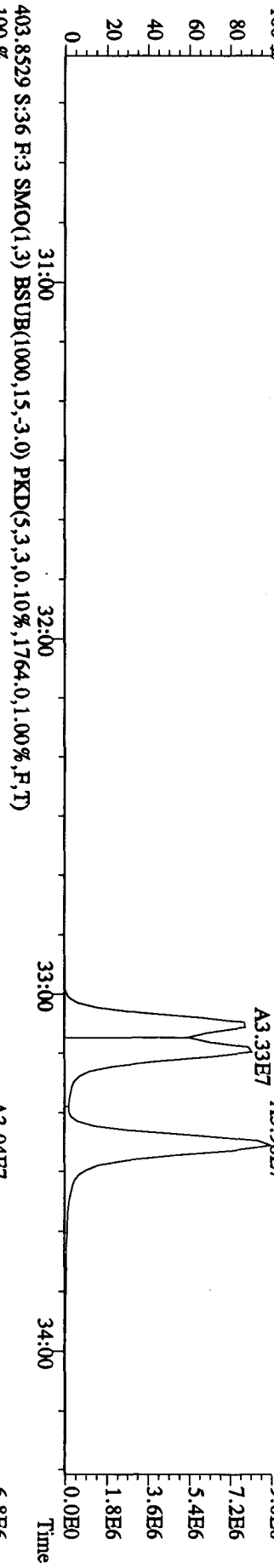
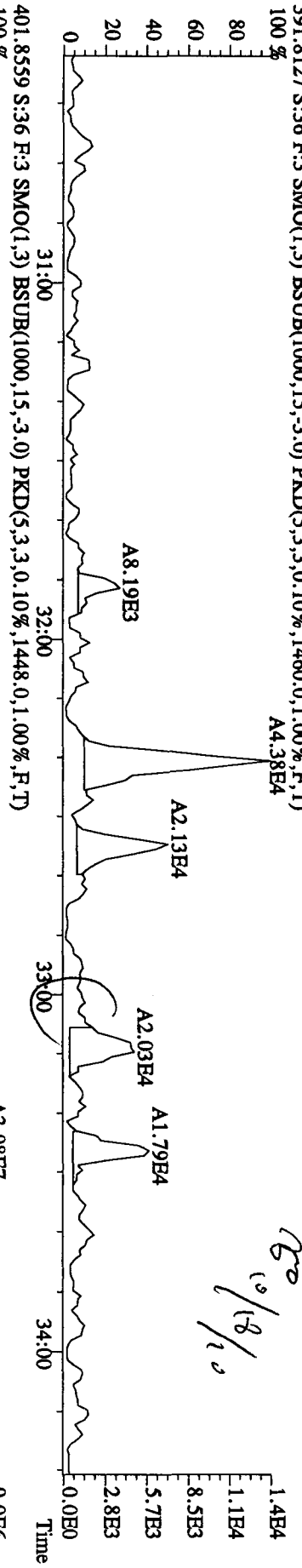
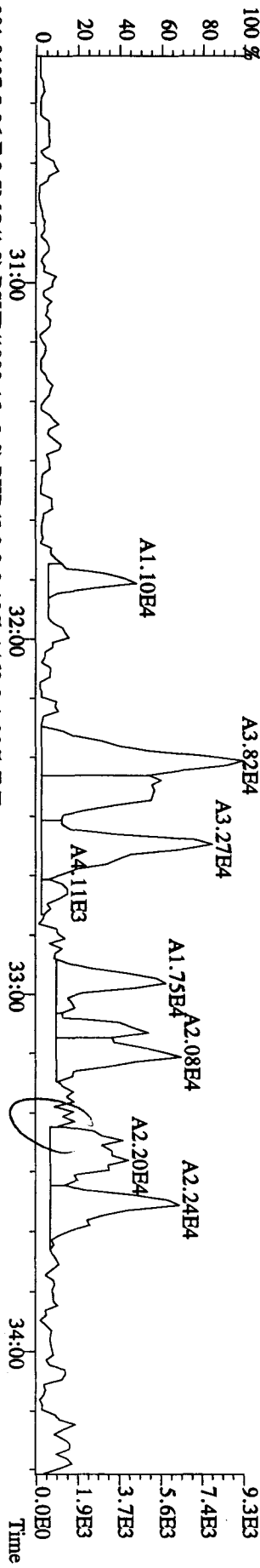


**Manual Edit Codes**

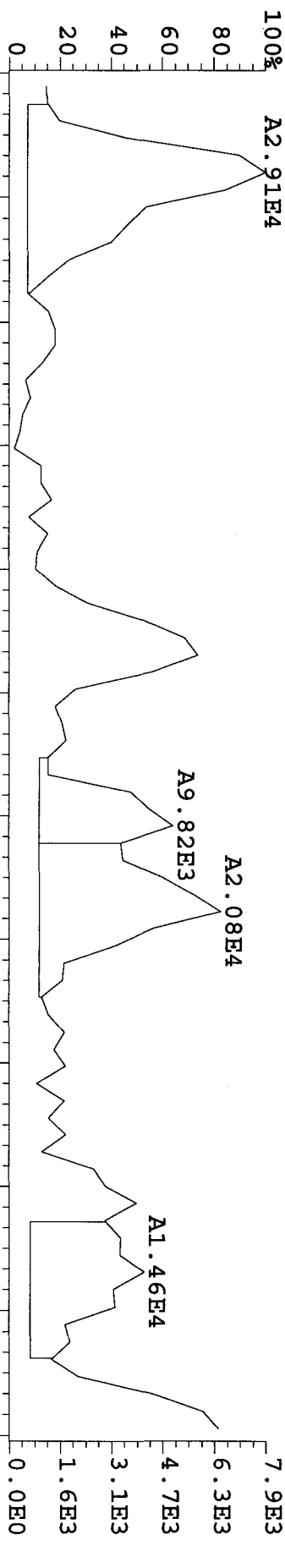
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst: BS Date: 10/18/10

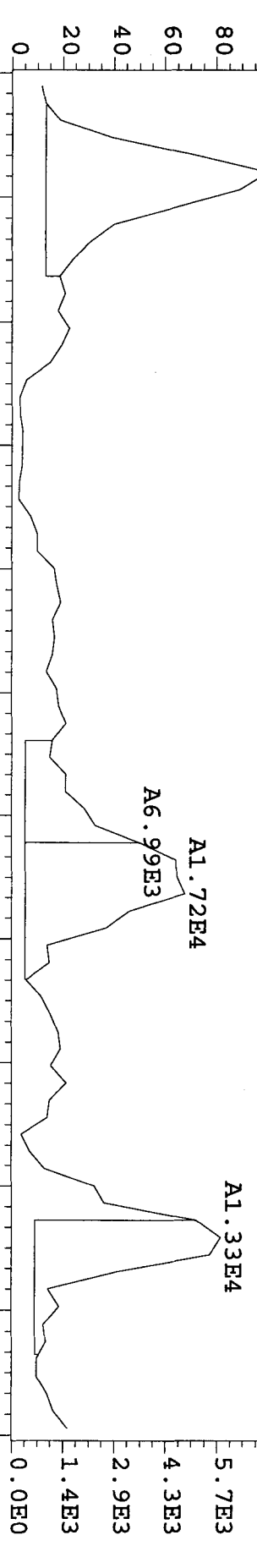
File:140C104D5 #1-287 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text:L78WH-1-AA :G0J090500-8 Exp:DIOXINRES  
 389.8157 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T)  
 100%



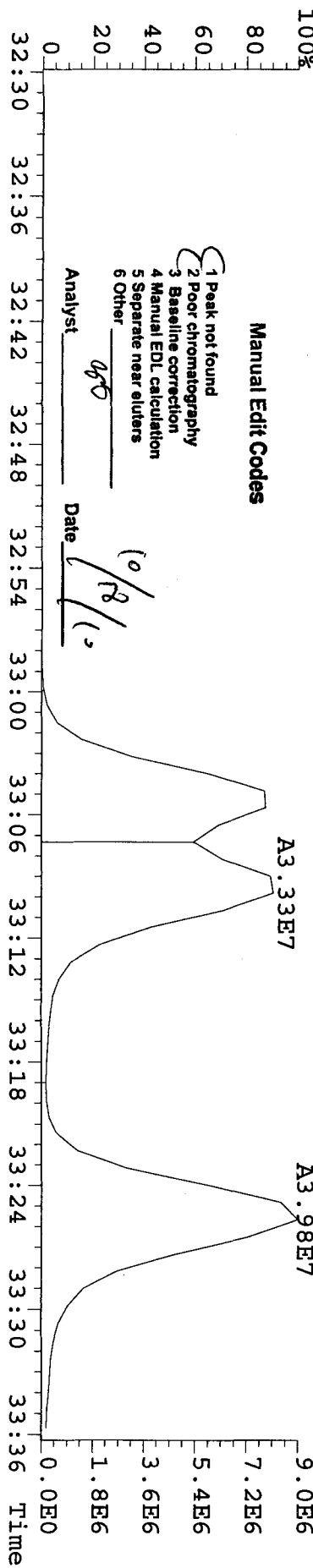
File: 14OCT104D5 #1-287 Acq: 15-OCT-2010 12:05:23 GC EIT+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text: L78WH-1-AA : G0J090500-8 Exp: DIOXINRES  
 389.8157 S: 36 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T)



391.8127 S: 36 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1460.0,1.00%,F,T)  
 100% A2.13E4



401.8559 S: 36 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1448.0,1.00%,F,T)  
 100%



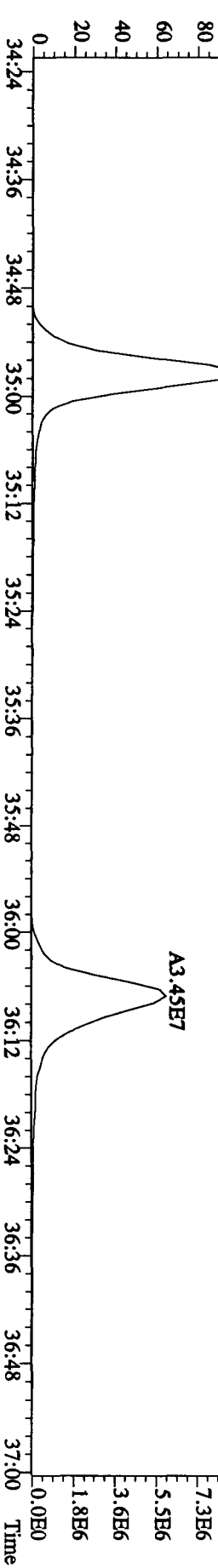
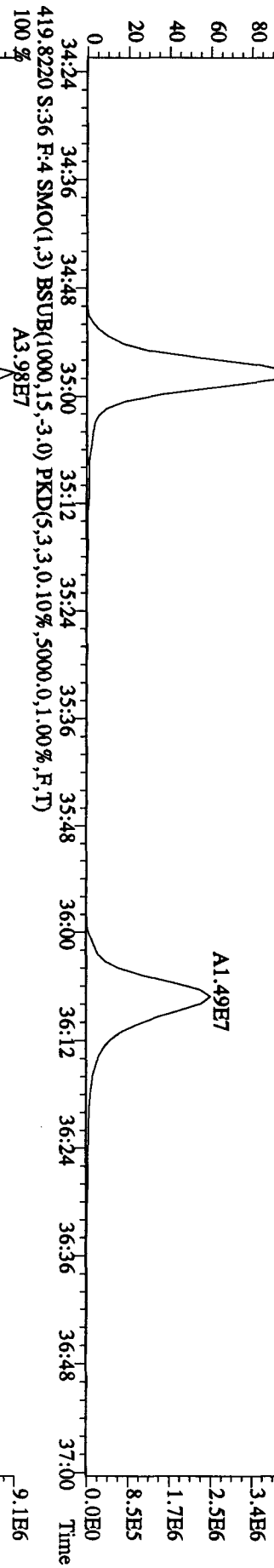
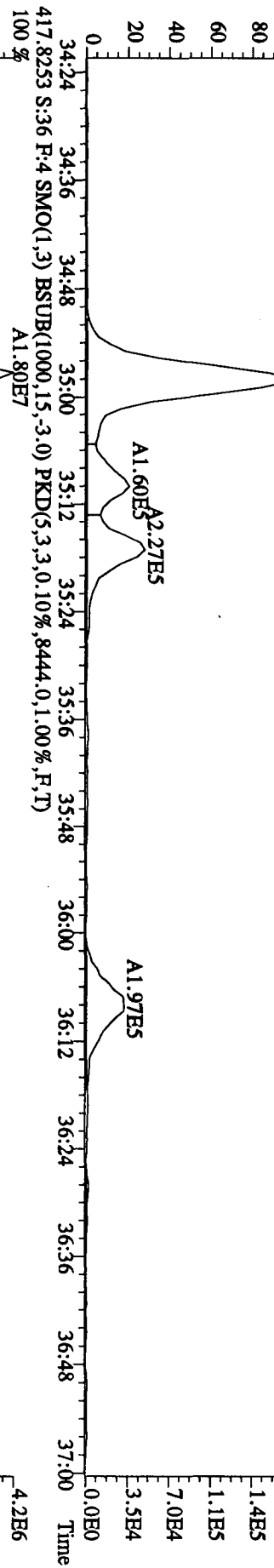
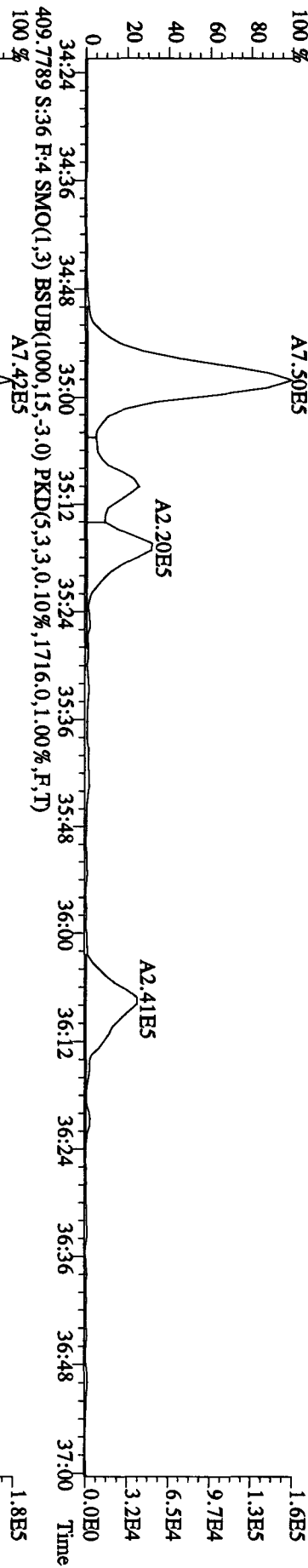
**Manual Edit Codes**

- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

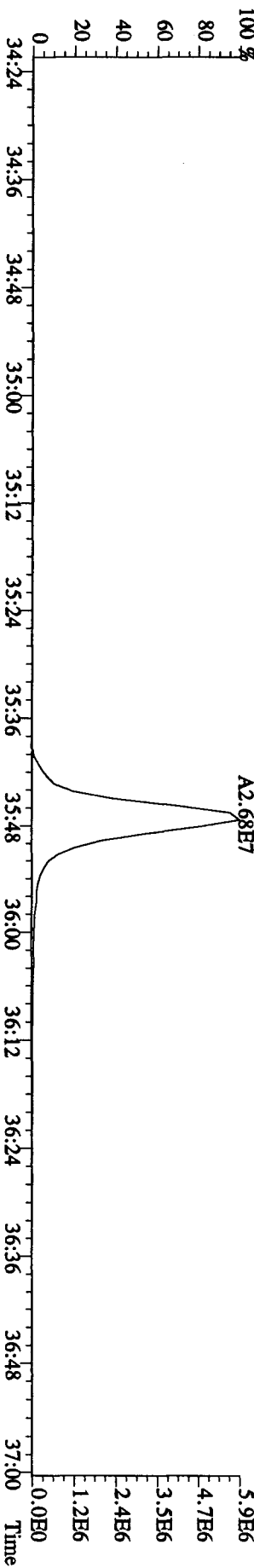
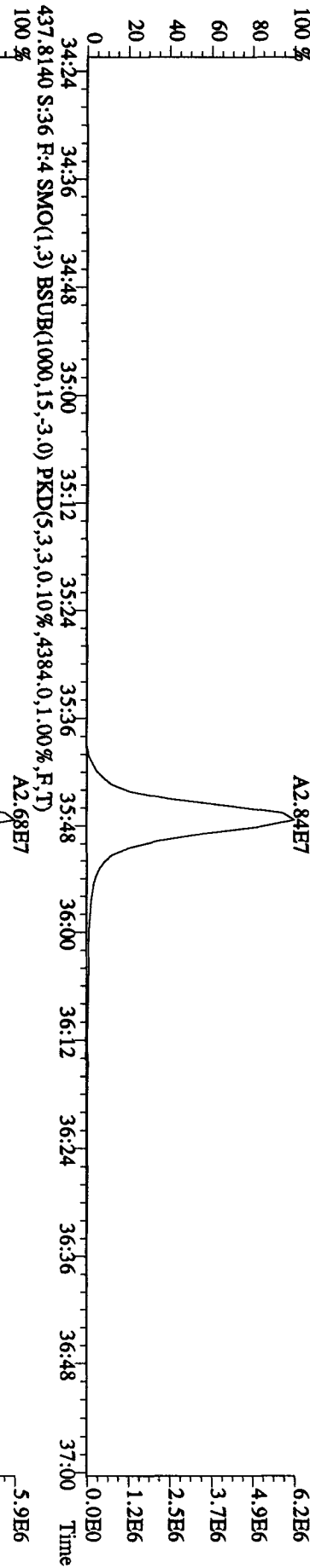
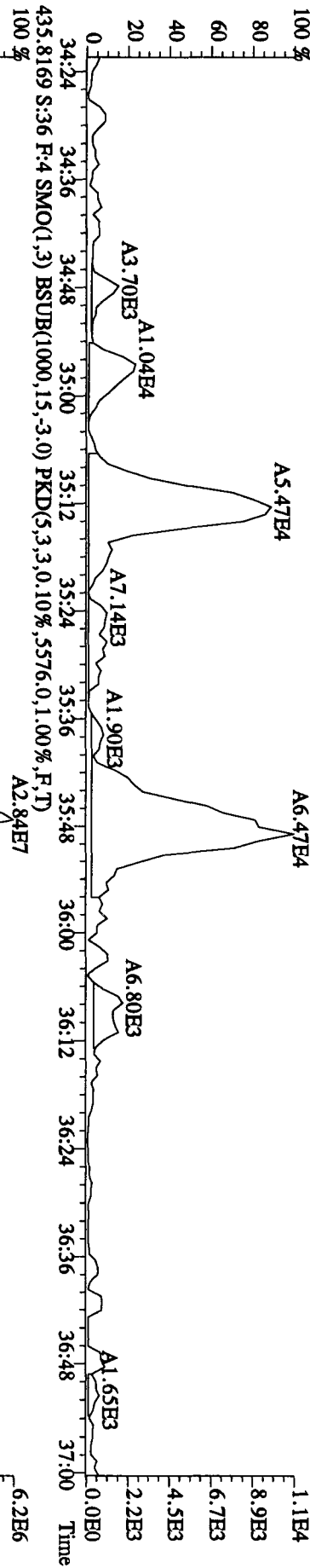
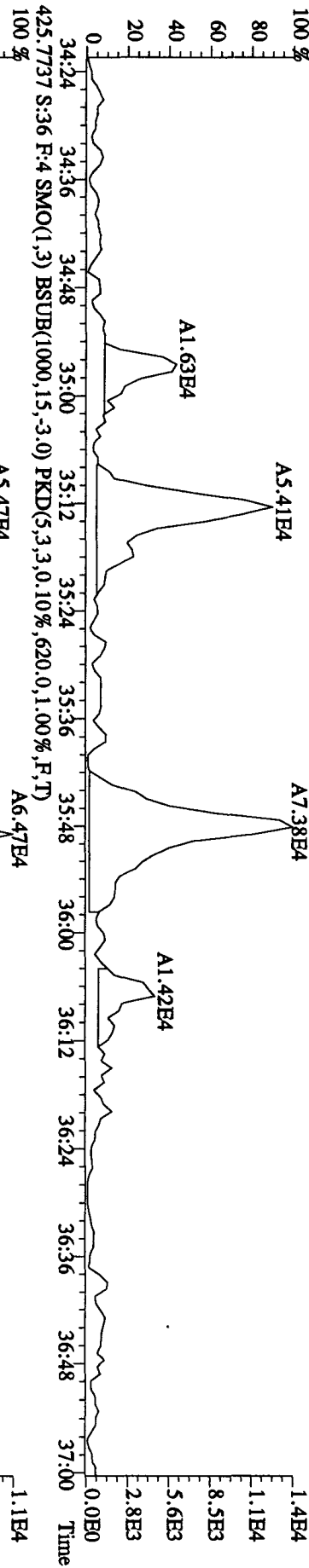
Analyst: ASD

Date: 10/2/11

File:140C104D5 #1-200 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text:L78WH-1-AA :G01090500-8 Exp:DIOXINRES  
 407.7818 S:3.6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1448,0,1,00%,F,T)  
 100 % A7.50E5

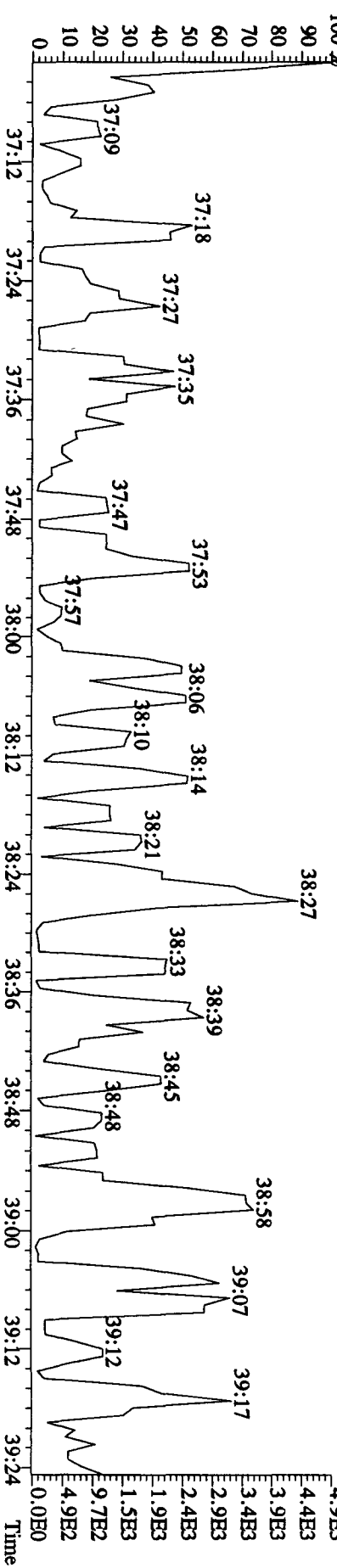
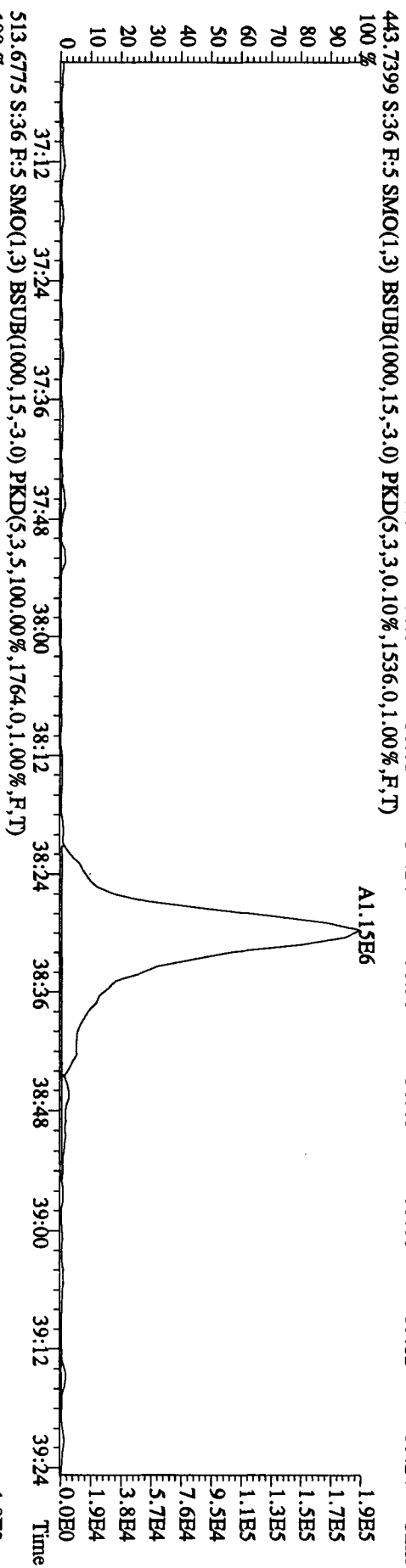
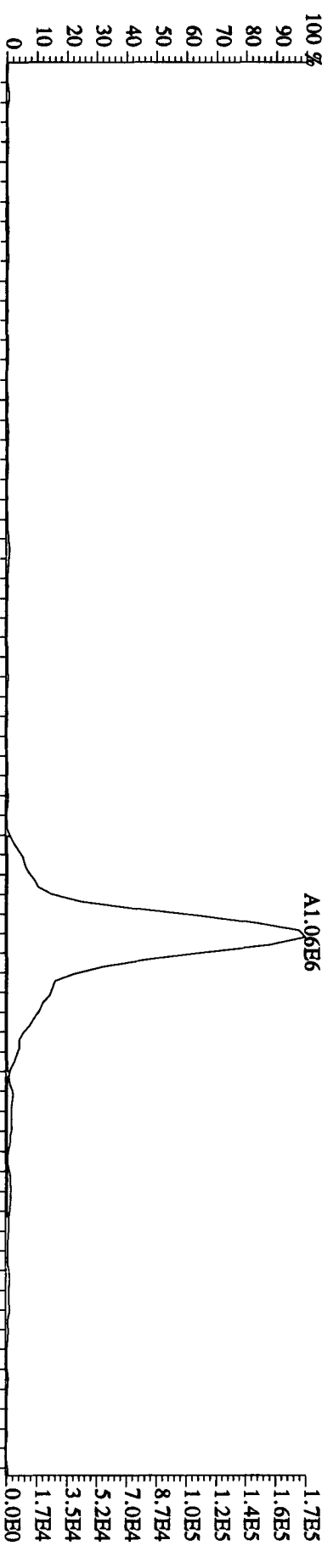


File: 140C104D5 #1-200 Acq: 15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#36 Text: L78WH-1-AA : G01090500-8 Exp: DIOXINRES  
 423.7766 S:3.6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1248,0,1,00%,F,T)  
 100 %

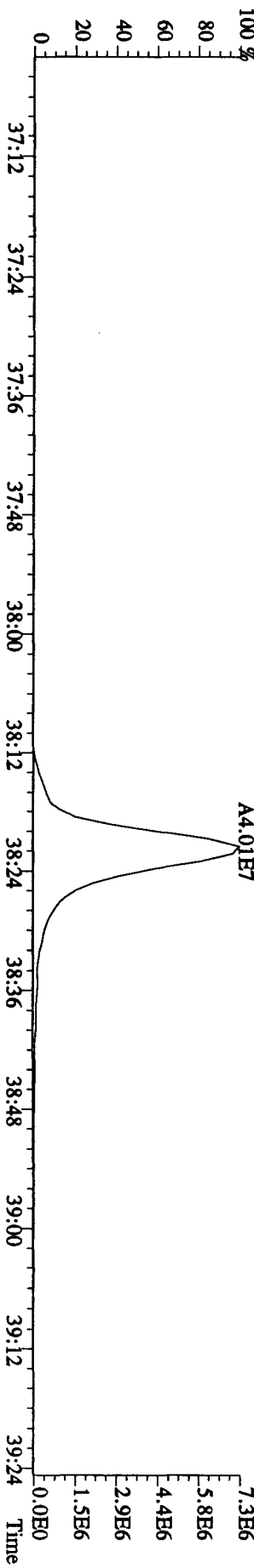
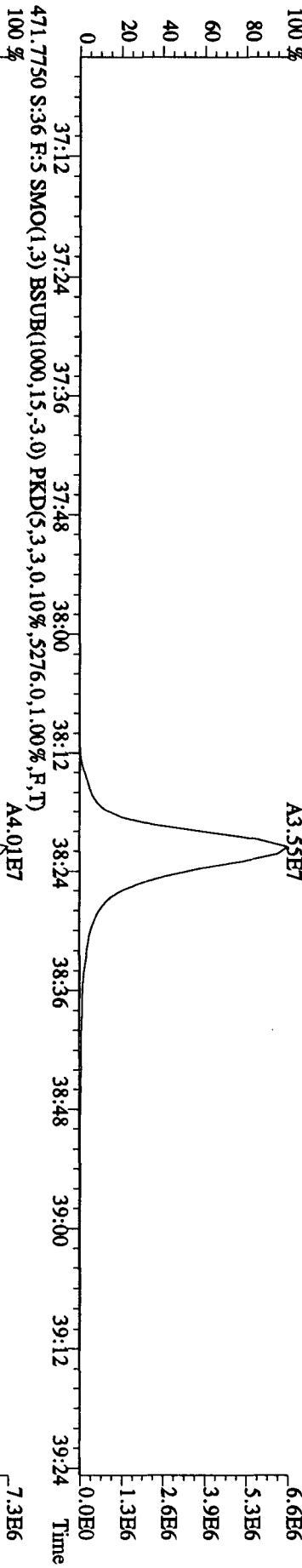
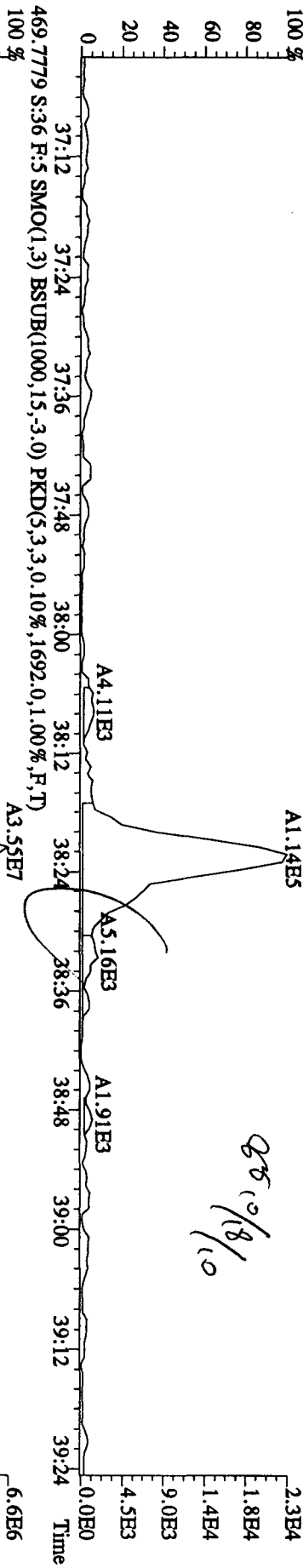
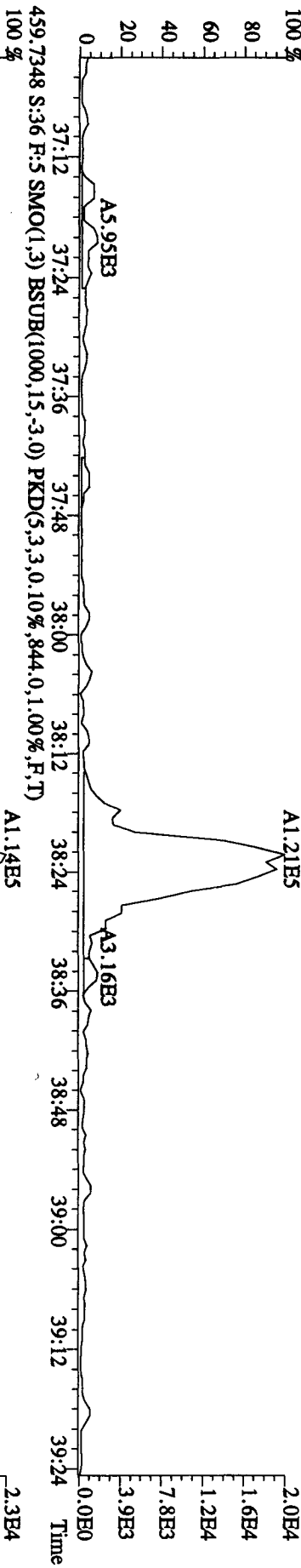




File:14OC104D5 #1-193 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text:L78WH-1-AA :G0J090500-8 Exp:DIOXINRES  
 441.7428 S:36 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,976.0,1.00%,F,T)



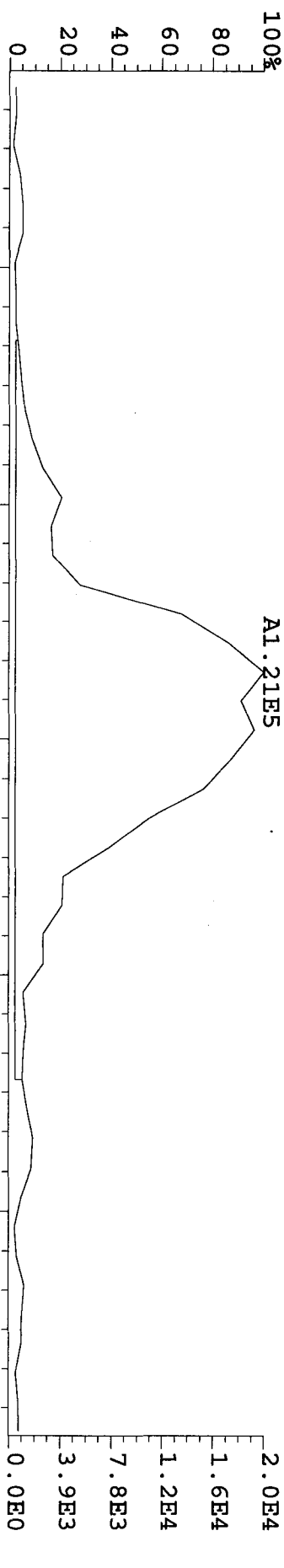
File:140C104D5 #1-193 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text:L78WH-1-AA :G0J090500-8 Exp:DIOXINRES  
 457.7377 S:36 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,536,0,1.00%,F,T)



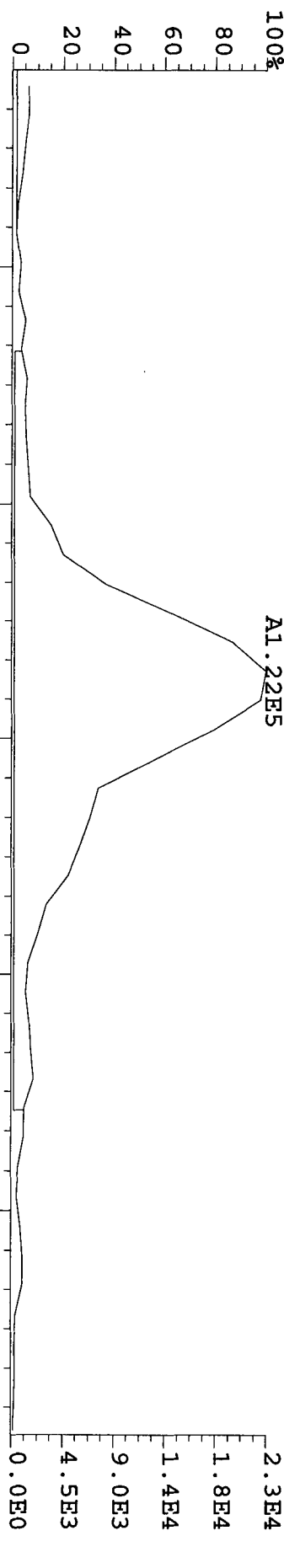
File: 14OC104D5 #1-193 Acq: 15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-UltimaE

Sample#36 Text: L78WH-1-AA : G0J090500-8 Exp: DIOXINRES

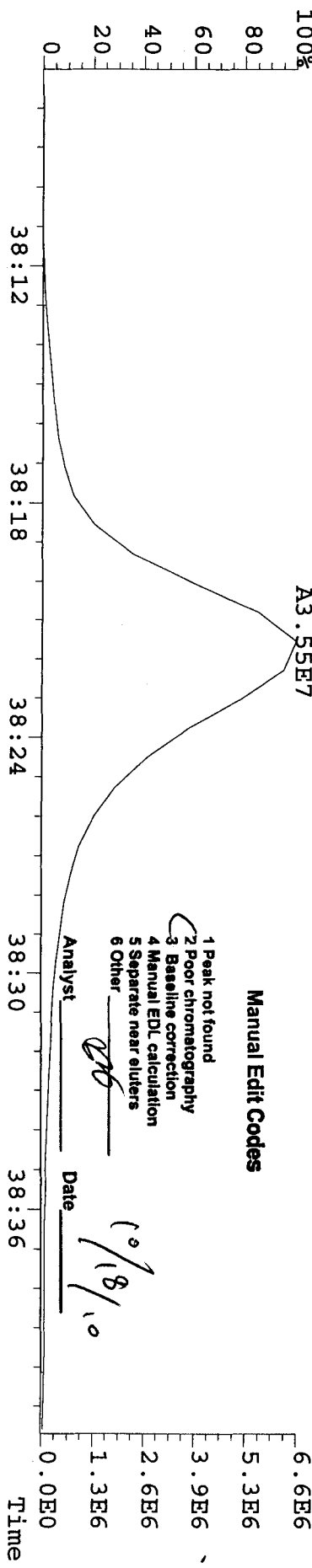
457.7377 S:36 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,536.0,1.00%,F,T)



459.7348 S:36 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,844.0,1.00%,F,T)



469.7779 S:36 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1692.0,1.00%,F,T)



**Manual Edit Codes**

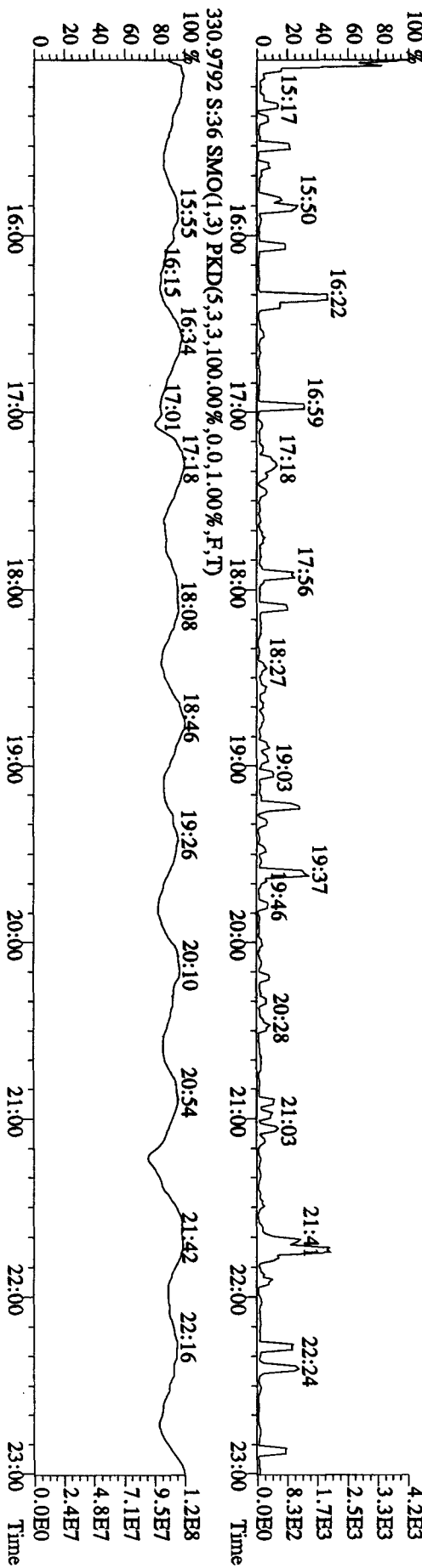
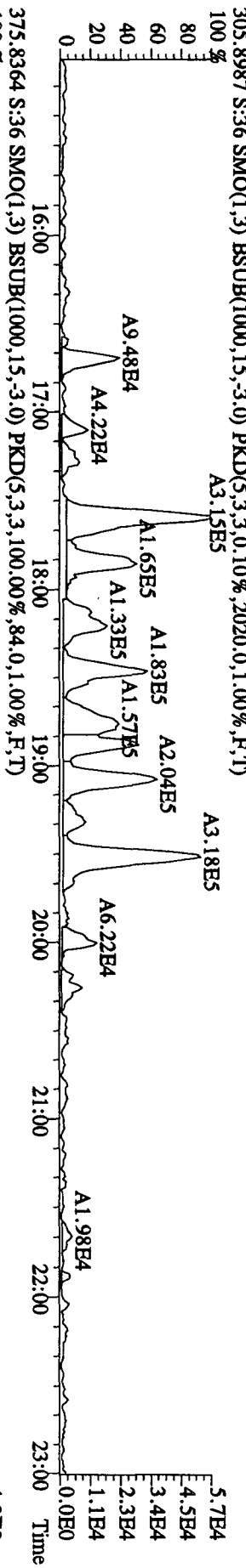
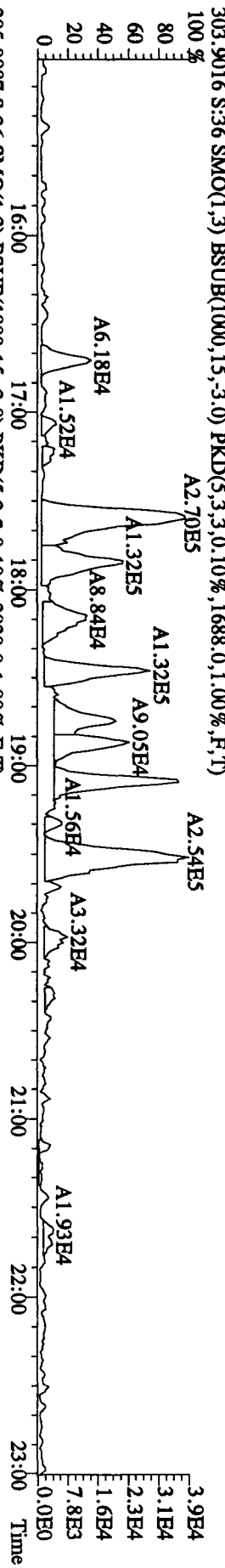
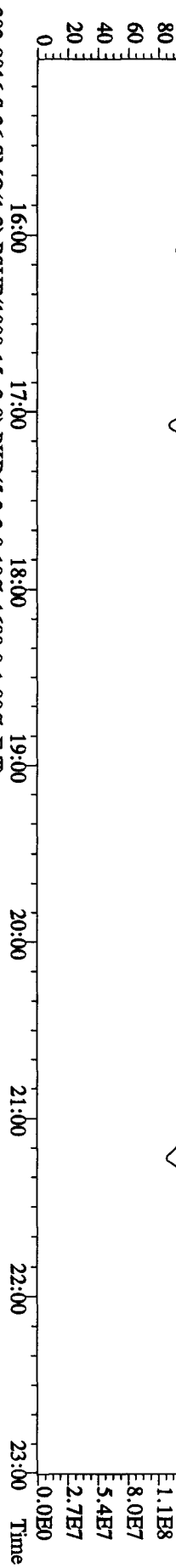
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst                     

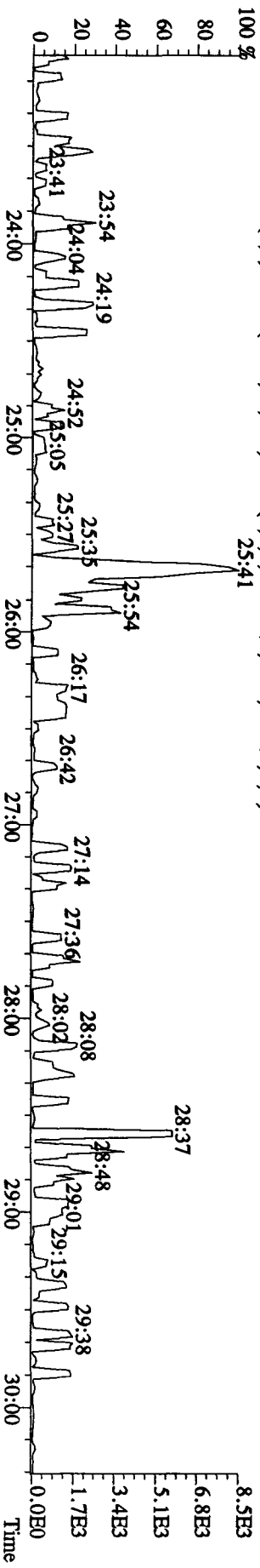
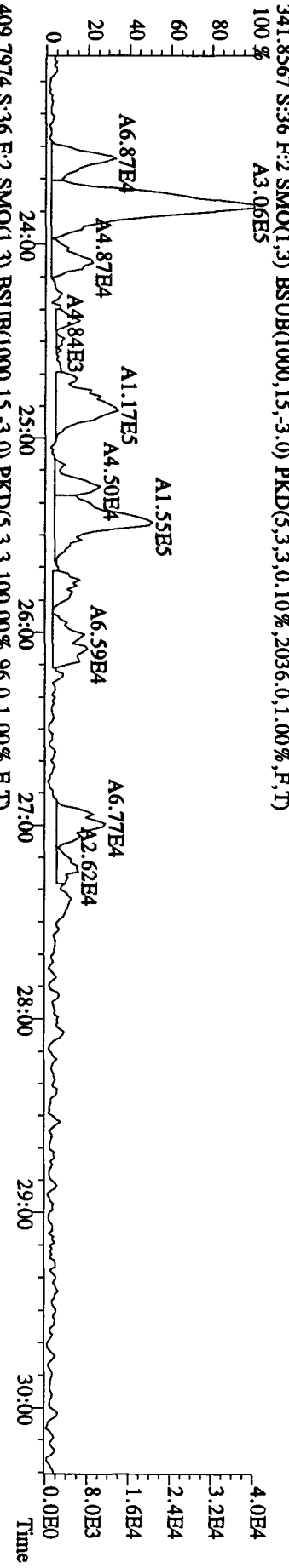
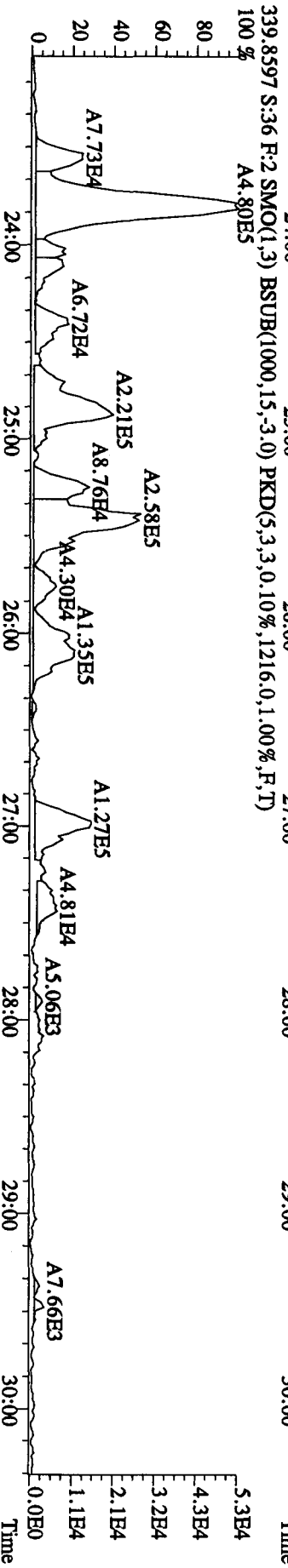
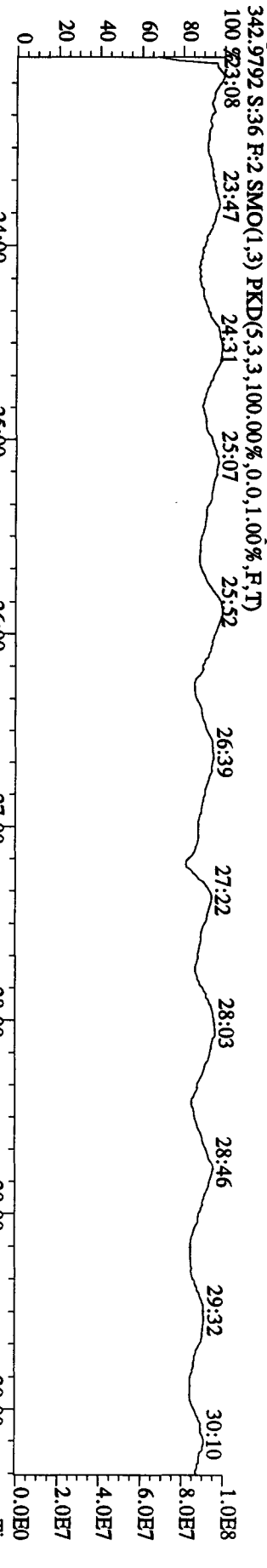
Date                     

*10/18/10*

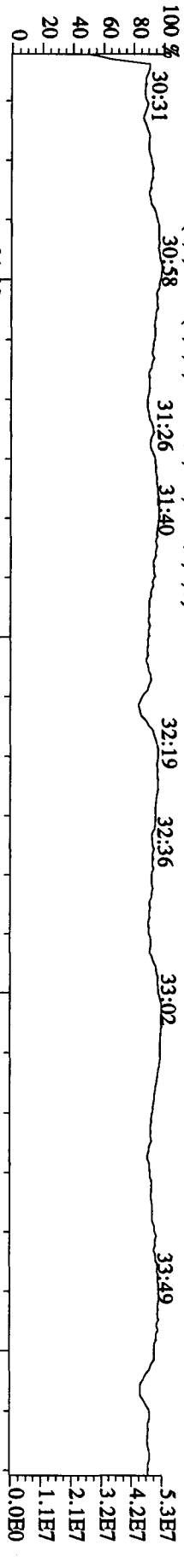
File:140C104D5 #1-530 Acq:15-OCT-2010 12:05:23 GC BI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Tex:L78WH-1-AA :G0J090500-8 Exp:DIOXINRES  
 292.9825 S:36 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)  
 100% 15:40 16:27 17:13 17:42 18:37 19:10 19:58 20:48 21:26 22:49 1.33E8



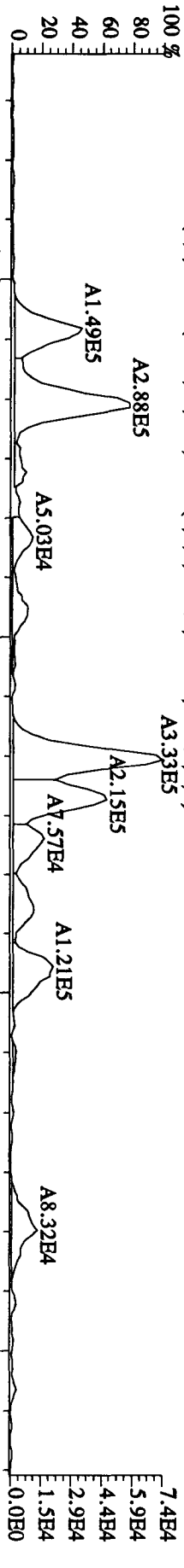
File:140C104D5 #1-470 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#36 Text:L78VH-1-AA :G0J090500-8 Exp:DIOXINRES



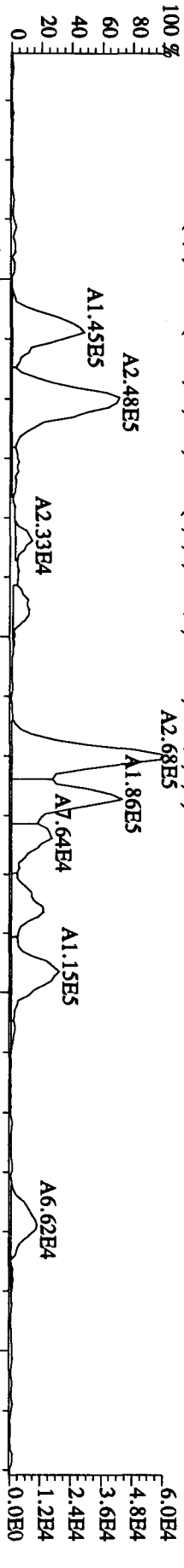
File:140C104D5 #1-287 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimat  
 Sample#36 Text:L78WH-1-AA :G01090500-8 Exp:DIOXINRES  
 392.9760 S:36 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 30:31 30:58 31:26 31:40 32:19 32:36 33:02 33:49



373.8208 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1648.0,1.00%,F,T)  
 100% 31:00 32:00 33:00 34:00



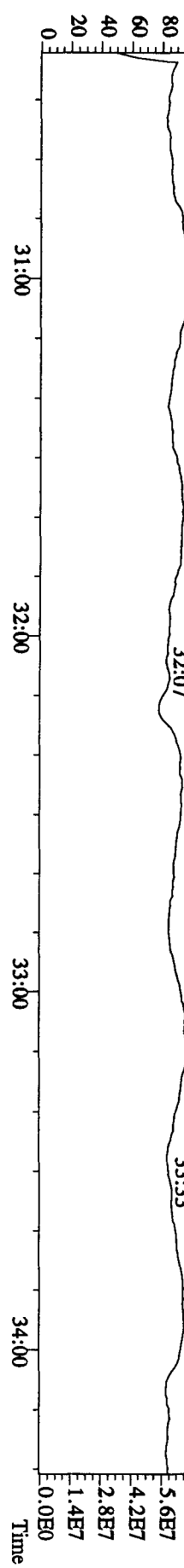
375.8178 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)  
 100% 31:00 32:00 33:00 34:00



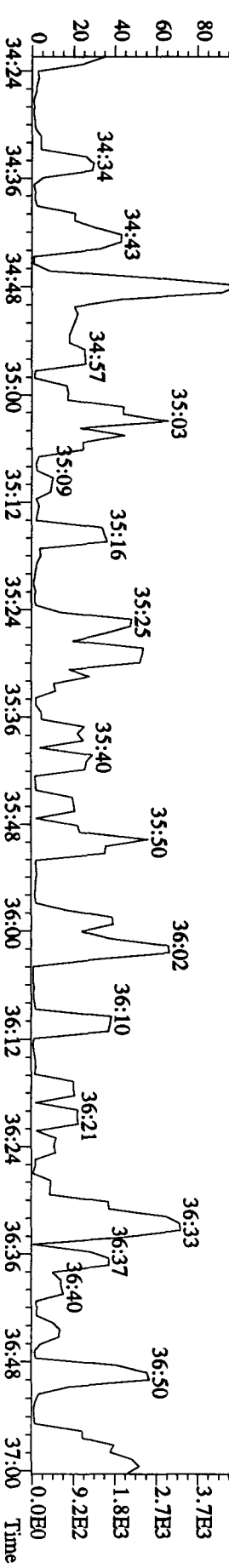
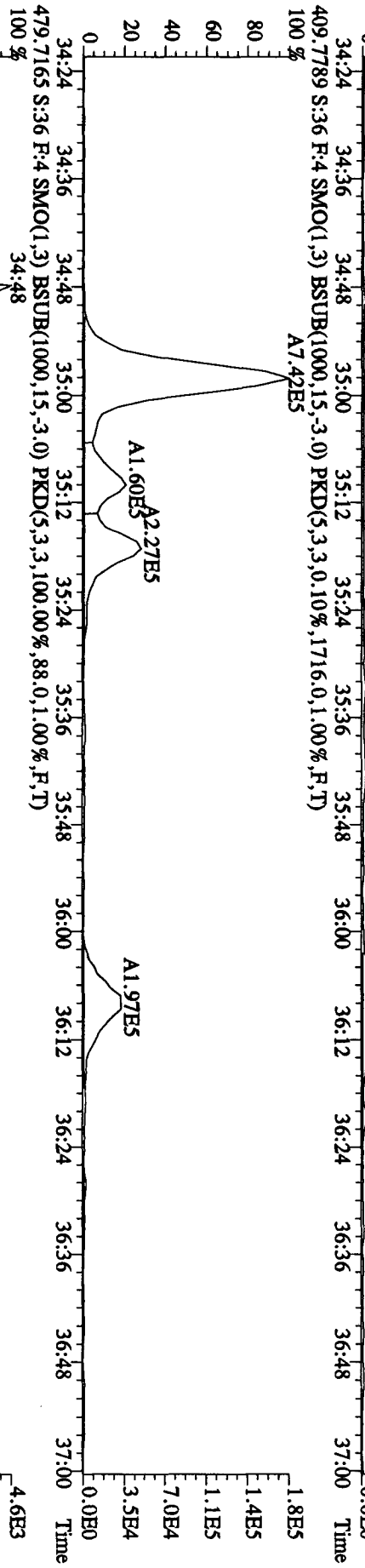
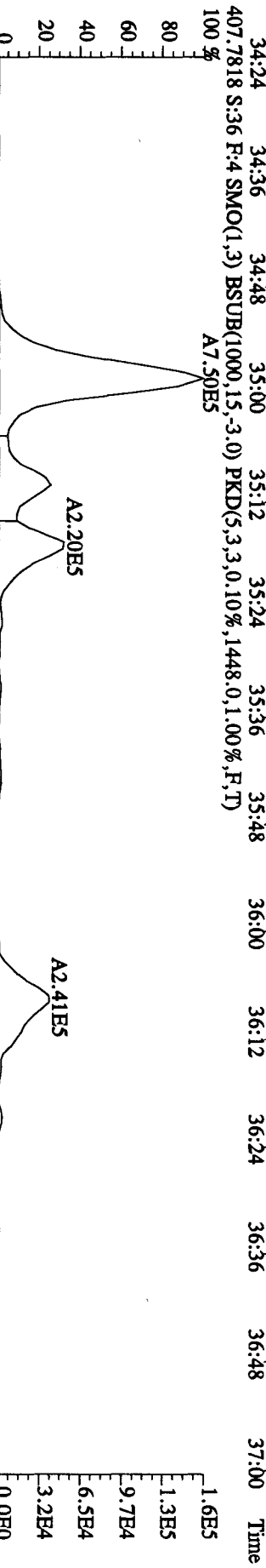
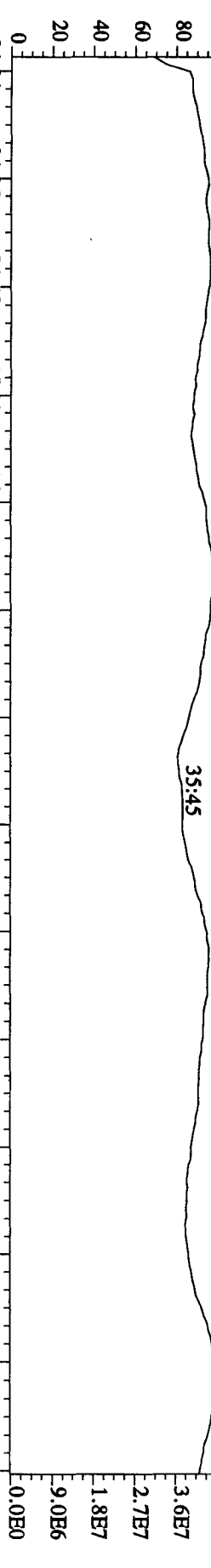
445.7555 S:36 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,112.0,1.00%,F,T)  
 100% 30:31 30:48 31:00 31:11 31:19 31:34 31:52 32:00 32:03 32:32 32:36 33:00 33:05 33:23 33:43 33:47 34:00 34:04



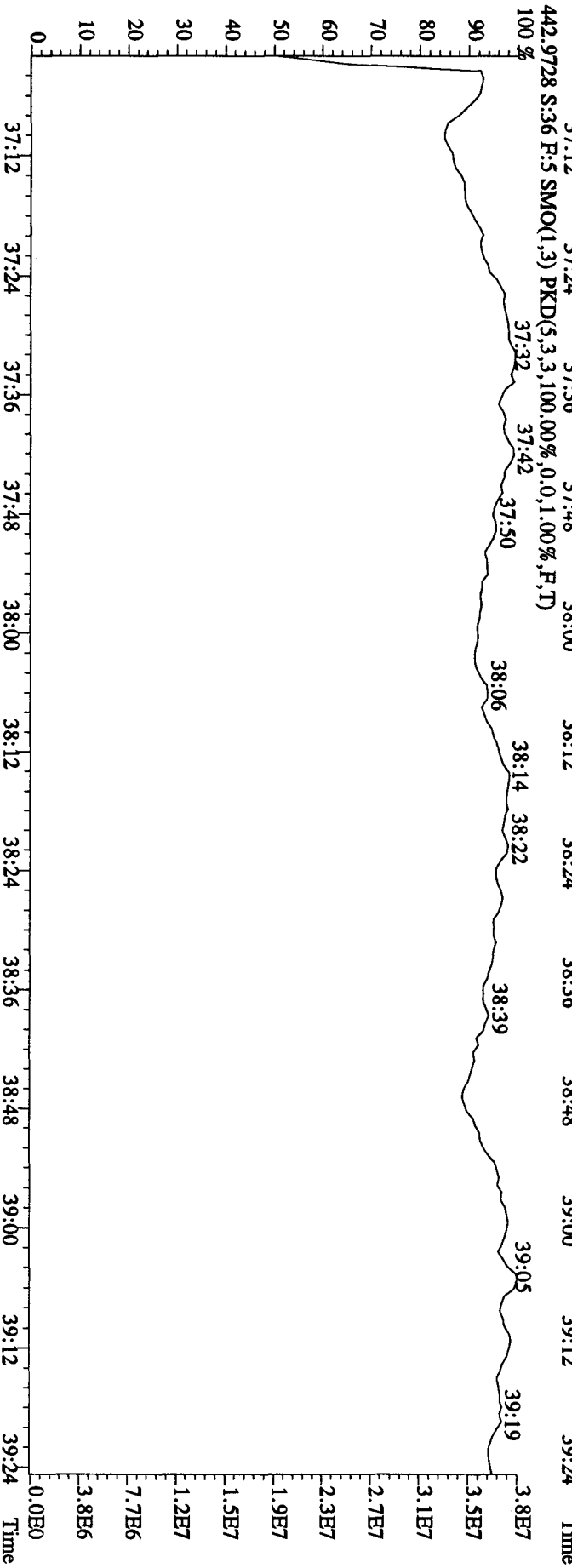
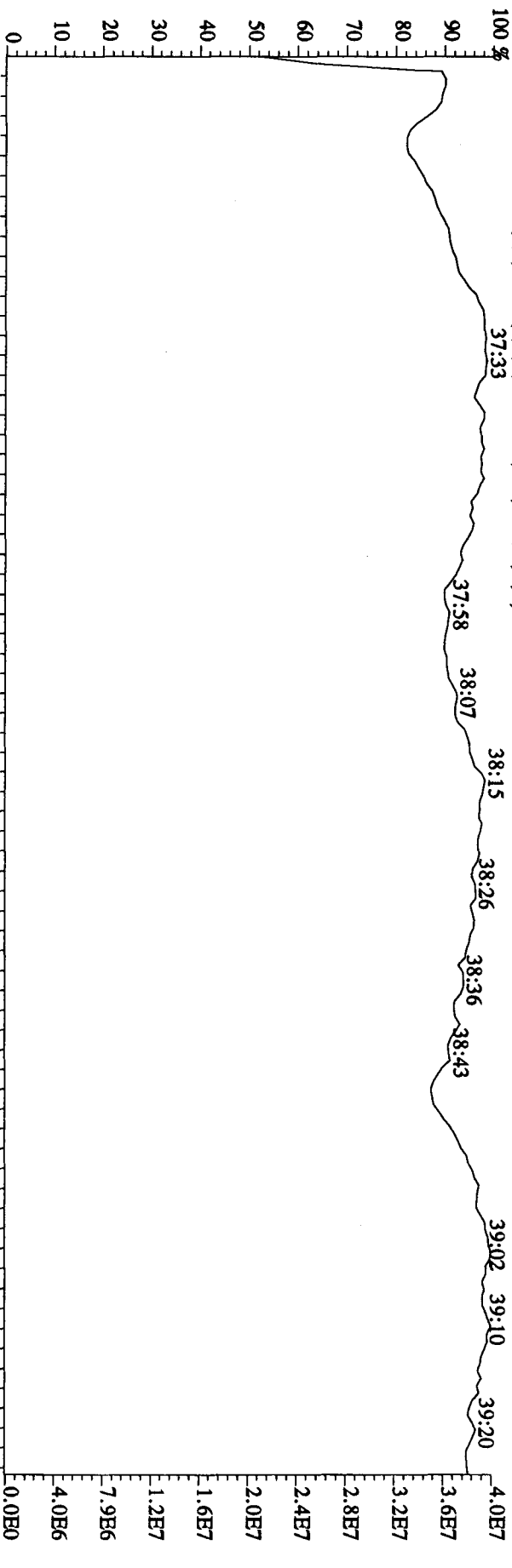
380.9760 S:36 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 30:31 30:59 31:00 31:11 31:19 31:34 31:38 32:00 32:07 32:26 33:00 33:09 33:33 33:57 34:00



File:14OC104D5 #1-200 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#36 Text:L78WH-1-AA PKD(5.3,3,100.00%,0.0,1.00%,F,T) Exp:DIOXINRES  
 430.9728 S:3.6 F:4 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



File:140C104D5 #1-193 Acq:15-OCT-2010 12:05:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#36 Text:L78WH-1-AA :G01090500-8 Exp:DIOXINRES  
 454.9728 S:36 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)





## Daily Calibration Checklist Dioxin Methods

Method ID T09 (DB225)

Column ID DB225

STD ID ST1018, ST1018A

Analyzed by AB

Std. Pkg. By AB

Std. Pkg. Reviewed By M.G.

Associated ICAL <sup>AIR</sup> DB225A0726105D2R

Instrument ID SD2

STD Solution 10DXN461

Date Analyzed 10-18-10

Date Std. Pkg. Assembled 10-19-10

Date Std. Pkg. Reviewed 10/19/10

| DAILY STANDARD PACKAGE  | INITIATED | REVIEWED |
|---|-----------|----------|
| Standard, CPSM, and Solvent Blank present?  | ✓         | ✓        |
| Copy of log-file and Beginning Static Resolution present?   | ✓         | ✓        |
| CPSM blow up present?   | ✓         | ✓        |
| Curve Summary present?  | ✓         | ✓        |
| Summary of Method criteria present or documented below?   | ✓         | ✓        |
| Daily standard within method specified limits?*   | ✓         | ✓        |
| Analyte retention times correct?  | ✓         | ✓        |
| Isotopic ratios within limits?  | ✓         | ✓        |
| CPSM valley ≤ method specified limits?*   | ✓         | ✓        |
| Are chromatographic windows correct?  | ✓         | ✓        |
| Samples analyzed within 12 hrs of daily standard?   | ✓         | ✓        |
| Manual reintegration's checked and hardcopies included?   | NA        | NA       |
| Ending Standard present?  | ✓         | ✓        |
| Ending Static Resolutions present   | ✓         | ✓        |
| Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples) | NA        | NA       |

COMMENTS: \_\_\_\_\_

\* Method 8290/TO9/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.

Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.

Method 23: See Method 23 Daily Standard Criteria, Table 5.

Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,

\*\* Method 23/0023A CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet

Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1018 File text: ST1018 :CS3 10DXN461  
Run #6 Filename 18OC10A5D2 S: 2 I: 1  
Acquired: 18-OCT-10 13:49:46 Processed: 18-OCT-10 16:21:29  
Run: 18OC10A5D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R Results: 18OC10A5D2DB225AIR

| Name              | Resp      | RA     | RT    | RRF  | Amount | Dev'n | Mod? |
|-------------------|-----------|--------|-------|------|--------|-------|------|
| 13C-1,2,3,4-TCDD  | 229205000 | 0.78 y | 15:07 | -    | 100.00 | -     | n    |
| 13C-2,3,7,8-TCDF  | 454201000 | 0.78 y | 16:21 | 1.98 | 100.00 | -6.1  | n    |
| 2,3,7,8-TCDF      | 43558300  | 0.80 y | 16:22 | 0.96 | 10.00  | -9.2  | n    |
| 13C-2,3,7,8-TCDD  | 211684800 | 0.75 y | 14:50 | 0.92 | 100.00 | 4.4   | n    |
| 2,3,7,8-TCDD      | 35107200  | 0.82 y | 14:51 | 1.66 | 10.00  | 1.4   | n    |
| 37Cl-2,3,7,8-TCDD | 31477000  | 1.00 y | 14:51 | 1.49 | 10.00  | 2.0   | n    |

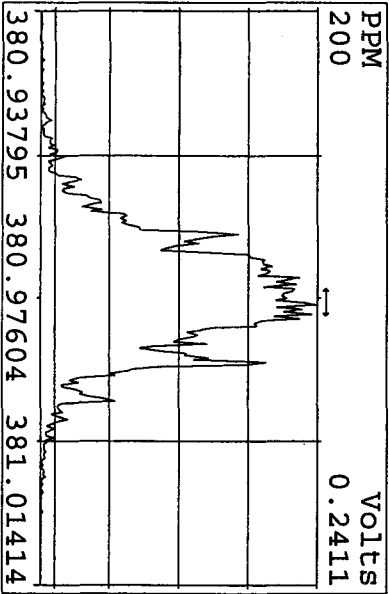
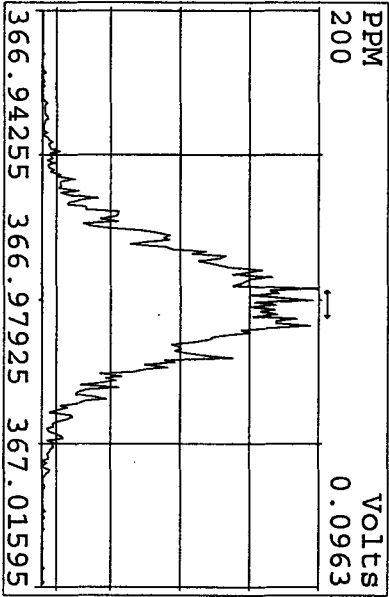
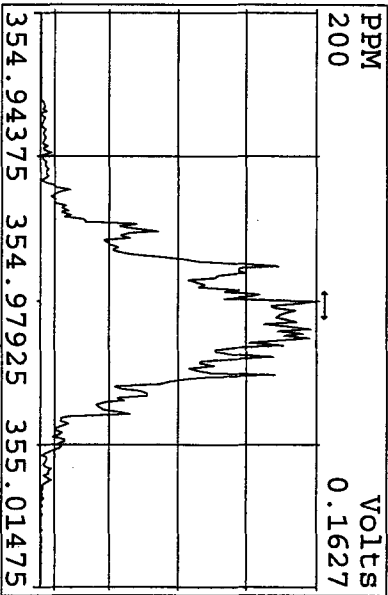
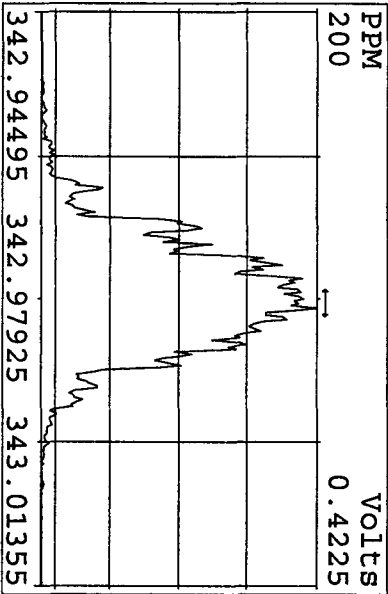
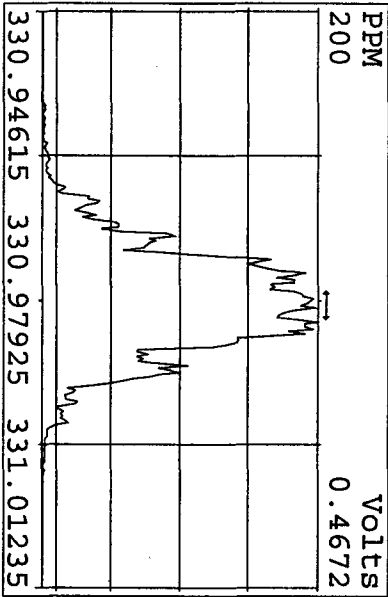
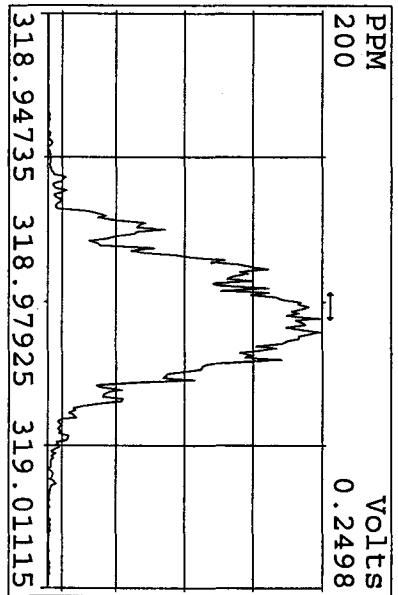
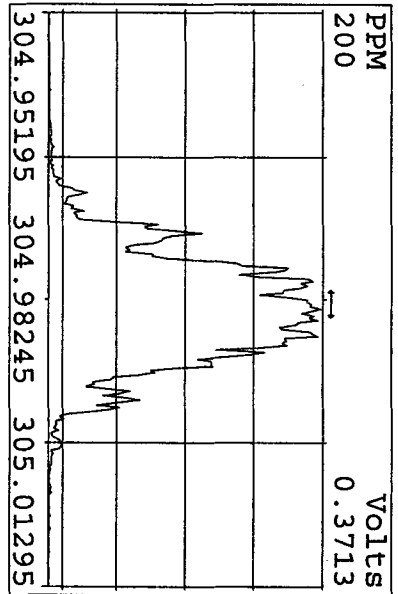
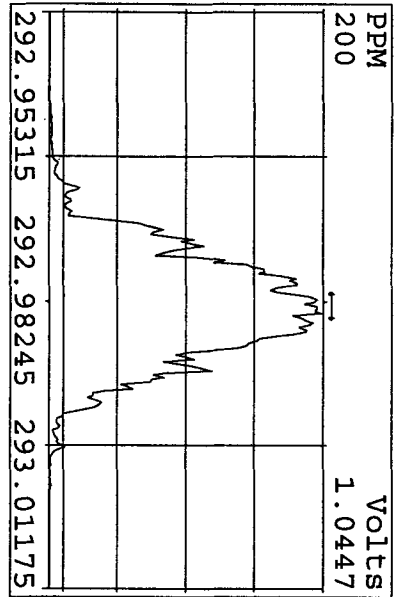
Run text: ST1018A File text: ST1018A :CS3 10DXN461  
Run #9 Filename 18OC10A5D2 S: 15 I: 1  
Acquired: 18-OCT-10 21:42:25 Processed: 19-OCT-10 10:38:58  
Run: 18OC10A5D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R Results: 18OC10A5D2DB225AIR

| Name              | Resp      | RA     | RT    | RRF  | Amount | Dev'n | Mod? |
|-------------------|-----------|--------|-------|------|--------|-------|------|
| 13C-1,2,3,4-TCDD  | 202988288 | 0.73 y | 15:07 | -    | 100.00 | -     | n    |
| 13C-2,3,7,8-TCDF  | 405336976 | 0.79 y | 16:20 | 2.00 | 100.00 | -5.4  | n    |
| 2,3,7,8-TCDF      | 39668780  | 0.80 y | 16:21 | 0.98 | 10.00  | -7.3  | n    |
| 13C-2,3,7,8-TCDD  | 192378632 | 0.75 y | 14:50 | 0.95 | 100.00 | 7.1   | n    |
| 2,3,7,8-TCDD      | 30447810  | 0.81 y | 14:52 | 1.58 | 10.00  | -3.2  | n    |
| 37Cl-2,3,7,8-TCDD | 27422408  | 1.00 y | 14:52 | 1.43 | 10.00  | -2.2  | n    |

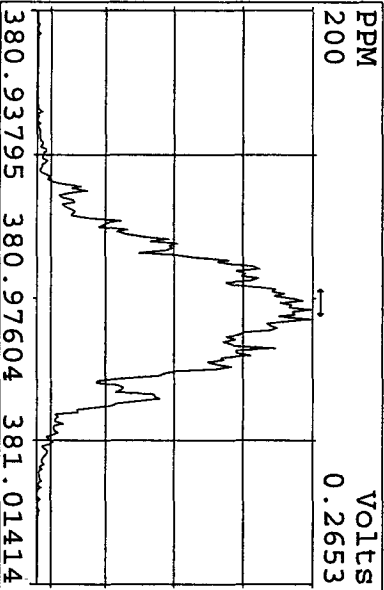
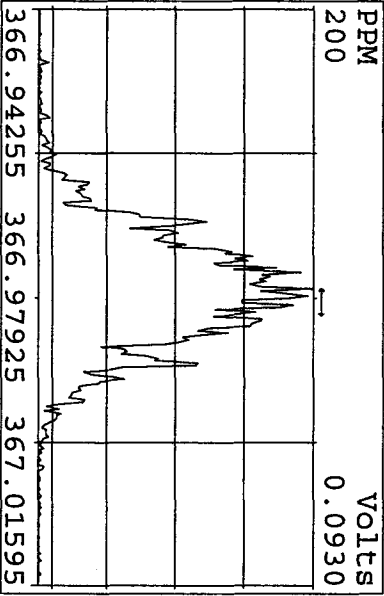
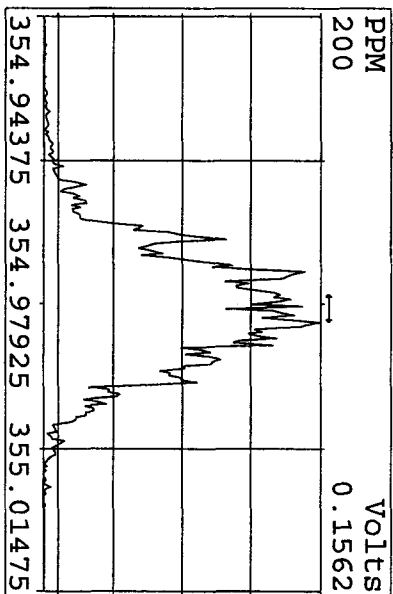
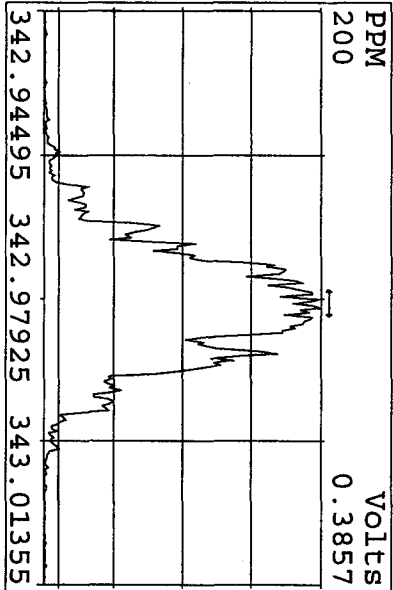
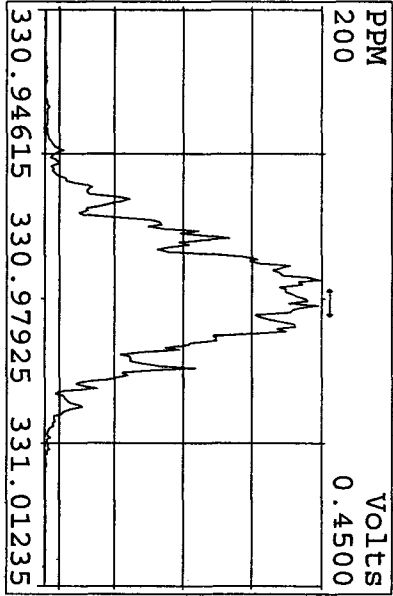
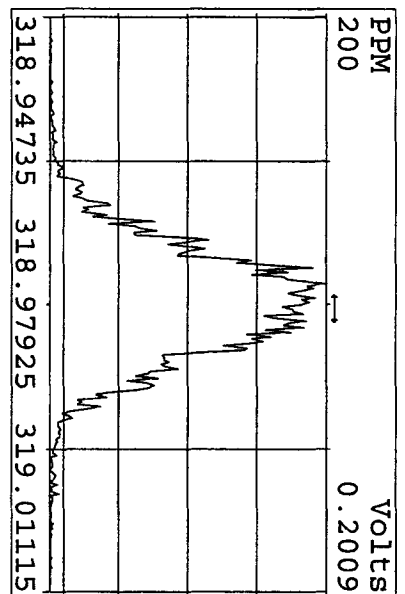
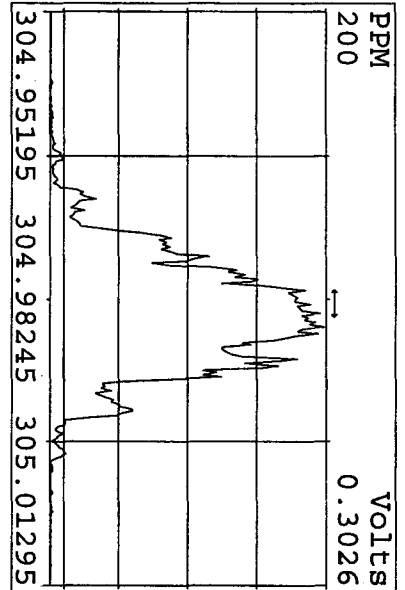
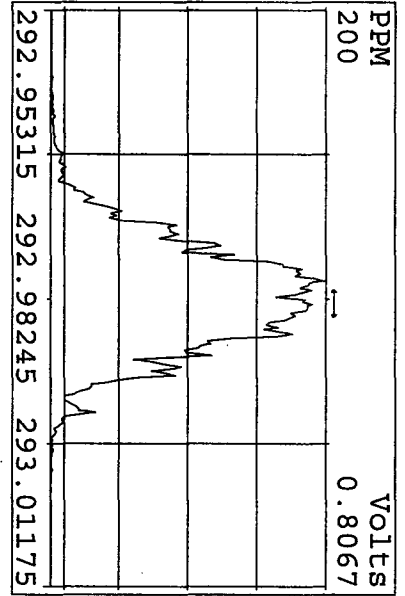
| Data file  | Smp | Work Order | Sample ID            | FV-uL | Method/Matrix | Box | Size    | U   |
|------------|-----|------------|----------------------|-------|---------------|-----|---------|-----|
| 18OC10A5D2 | 1   | CP1018     | DB-225 CPSM 3732-06  |       |               |     | 1.0000  |     |
| 18OC10A5D2 | 2   | ST1018     | CS3 10DXN461         |       |               |     | 1.0000  |     |
| 18OC10A5D2 | 3   | SB1018     | Solvent Blank C-14   |       |               |     | 1.0000  |     |
| 18OC10A5D2 | 4   | L6NMM-2-AC | G0I080540-11RX       | 20    | 8290/SOLID    | 79  | 10.4200 | g   |
| 18OC10A5D2 | 5   | L6NL9-2-AC | G0I080540-3RX        | 20    | 8290/SOLID    |     | 10.5400 | g   |
| 18OC10A5D2 | 6   | L6NMF-2-AC | G0I080540-8RX        | 20    | 8290/SOLID    |     | 10.3900 | g   |
| 18OC10A5D2 | 7   | L7L3K-1-AC | G0I280539-1          | 10    | 8290/SOLID    | 69  | 10.4100 | g   |
| 18OC10A5D2 | 8   | L78WG-1-AA | G0J090500-7          | 20    | TO9/AIR       | 79  | 0.5000  | SAM |
| 18OC10A5D2 | 9   | L7L28-1-AC | G0I280537-2          | 20    | 8290/SOLID    | 74  | 9.9400  | g   |
| 18OC10A5D2 | 10  | L7L26-1-AC | G0I280537-1          | 20    | 8290/SOLID    |     | 10.1400 | g   |
| 18OC10A5D2 | 11  | L7L3P-1-AC | G0I280539-5 (20X)    | 10    | 8290/SOLID    | 69  | 10.2000 | g   |
| 18OC10A5D2 | 12  | L7L3P-1-AD | G0I280539-5MS (20X)  | 10    | 8290/SOLID    |     | 10.0000 | g   |
| 18OC10A5D2 | 13  | L7L3P-1-AE | G0I280539-5MSD (20X) | 10    | 8290/SOLID    |     | 10.6700 | g   |
| 18OC10A5D2 | 14  | SB1018     | Solvent Blank C-14   |       |               |     | 1.0000  |     |
| 18OC10A5D2 | 15  | ST1018A    | CS3 10DXN461         |       |               |     | 1.0000  |     |
| 18OC10A5D2 | 16  |            |                      |       |               |     | 1.0000  |     |
| 18OC10A5D2 | 17  |            |                      |       |               |     | 1.0000  |     |
| 18OC10A5D2 | 18  |            |                      |       |               |     | 1.0000  |     |
| 18OC10A5D2 | 19  |            | AS 10/18/10          |       |               |     | 1.0000  |     |

log file reviewed  
10-18-10 am

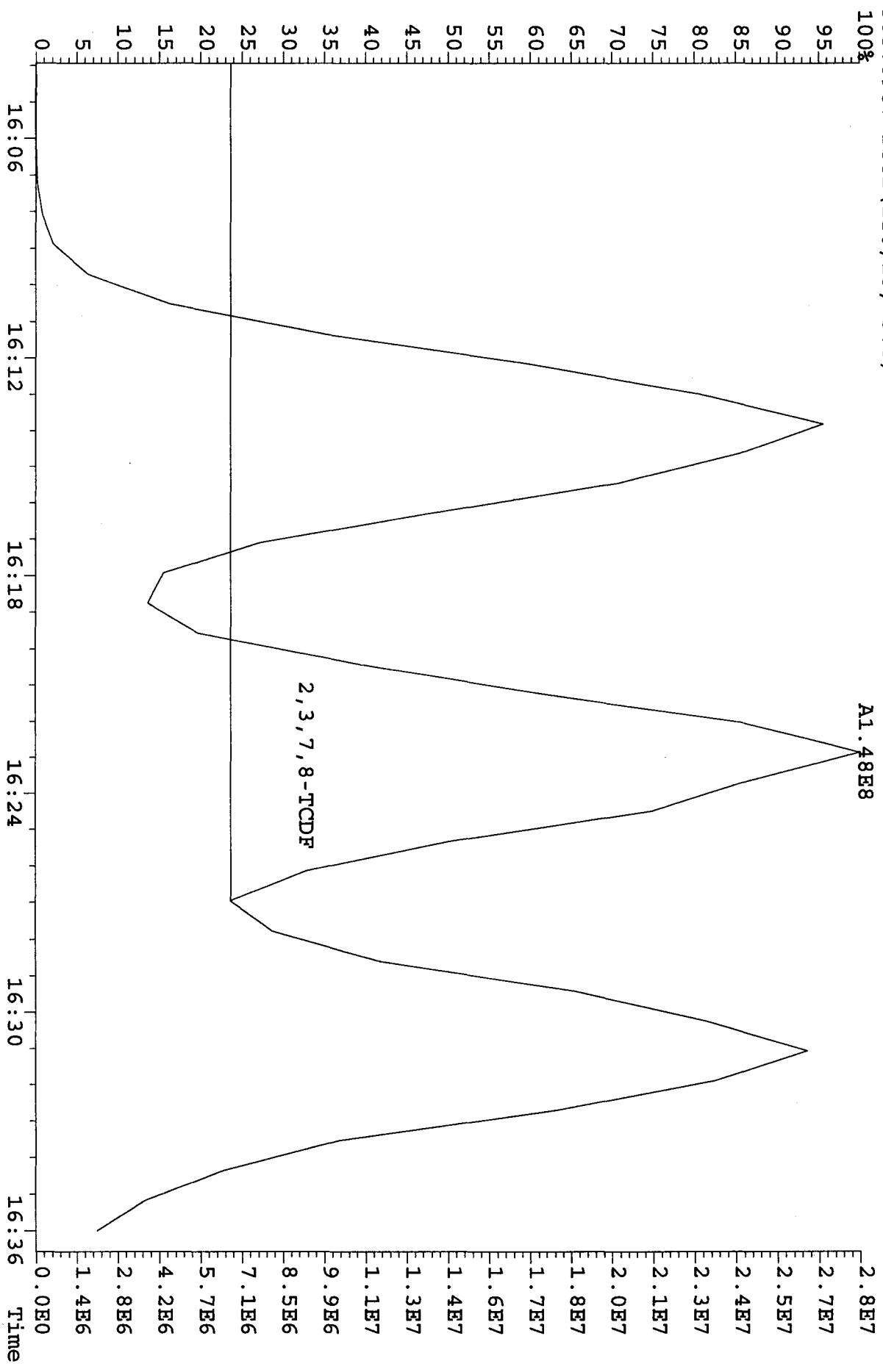
Peak Locate Examination:18-OCT-2010:13:10 File:180C10A5D2  
 Experiment:DB225RES Function:1 Reference:PFK



Peak Locate Examination:18-OCT-2010:22:27 File:RESCHK180C10A5D2  
 Experiment:DB225RES Function:1 Reference:PFK



File: 18OC10A5D2 #1-1242 Acq: 18-OCT-2010 13:13:28 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP1018 : DB-225 CPSM 3732-06 Exp: DB225RES  
 305.8987 BSUB (128, 15, -3.0)



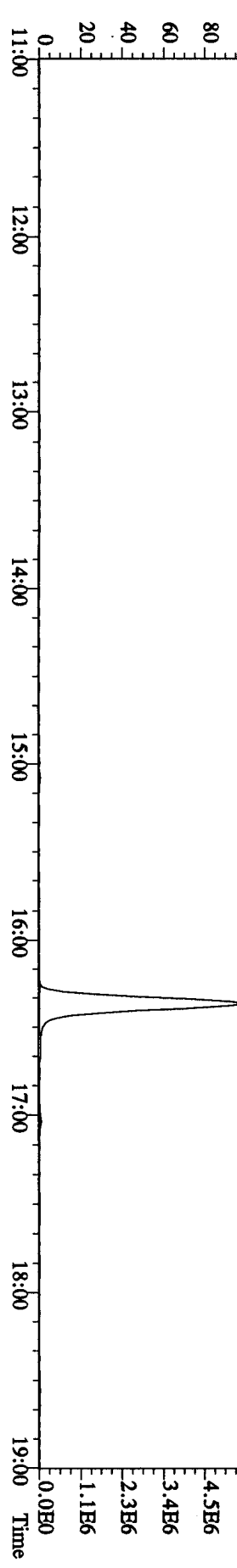
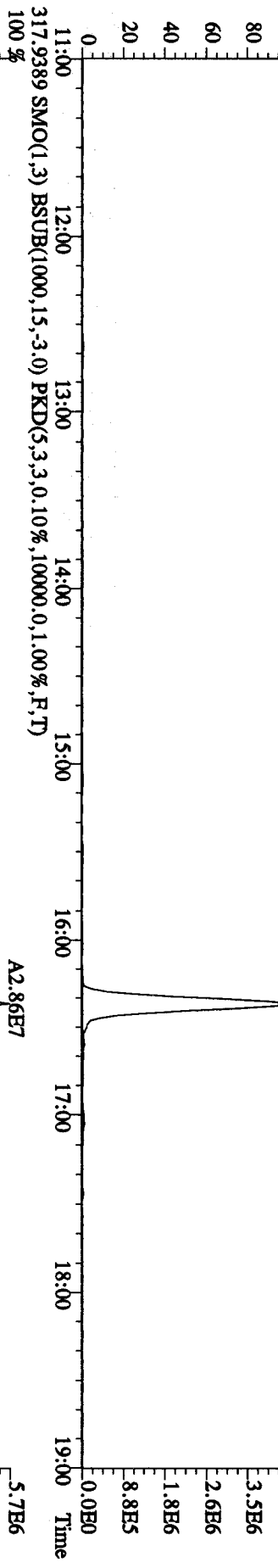
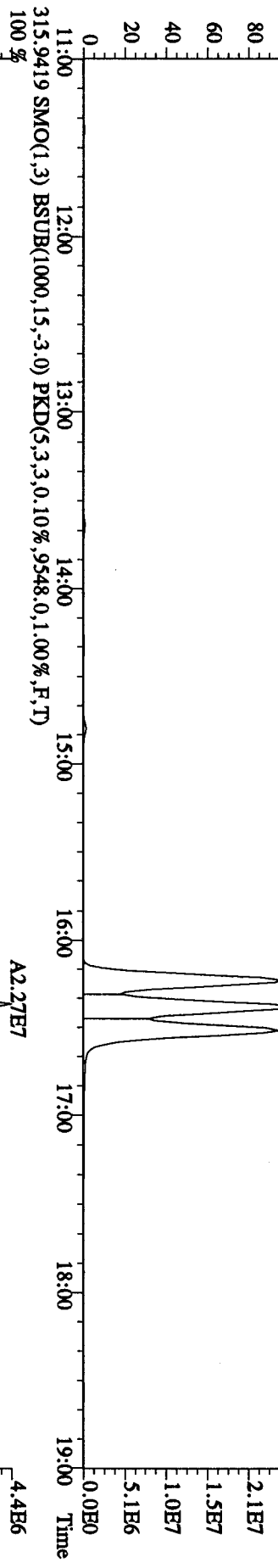
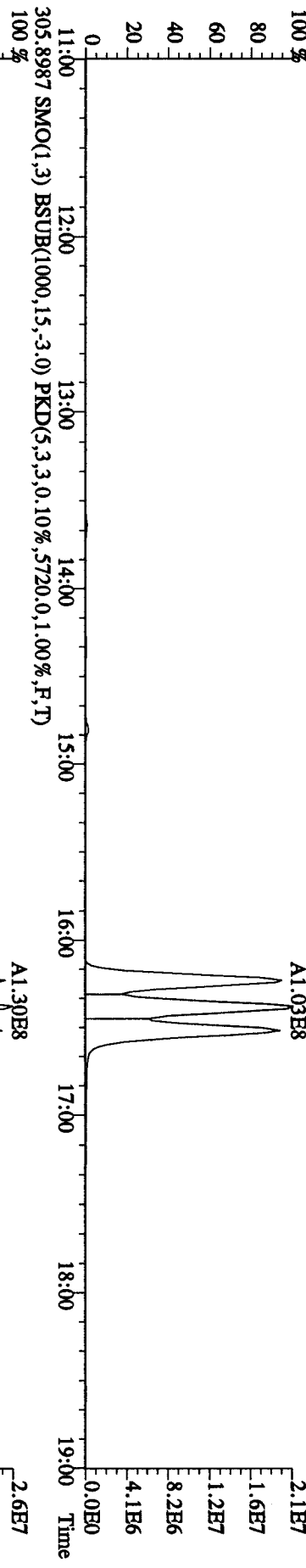
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R

ST0726A : CS-1 10DXN342 RI ST0726B : CS-2 10DXN335 ST0726C : CS-3 10DXN336  
 ST0726E : CS-4 10DXN337 ST0726D : CS-5 10DXN339

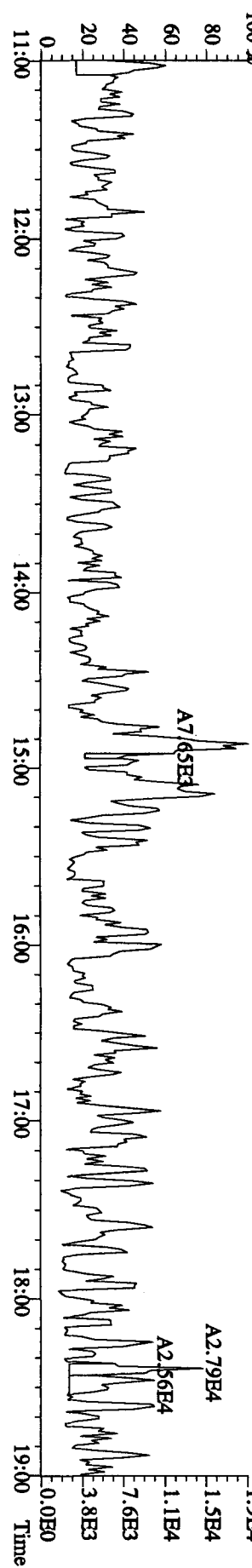
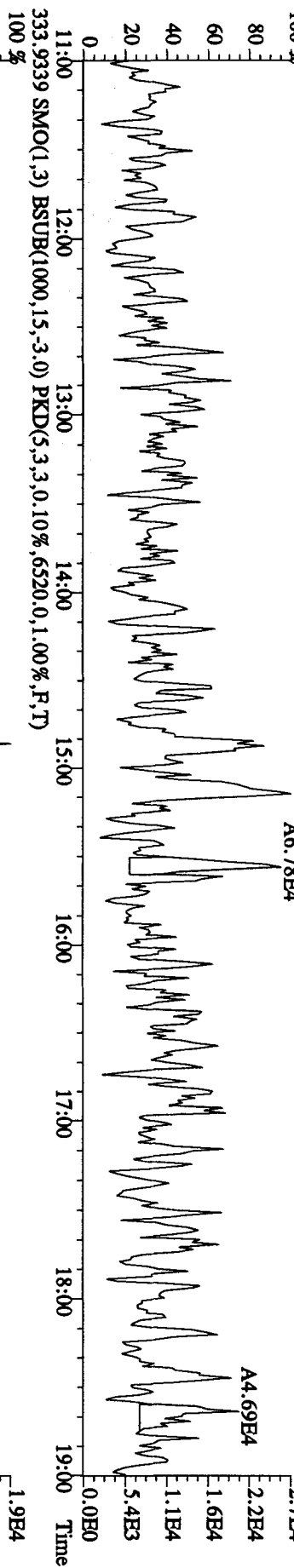
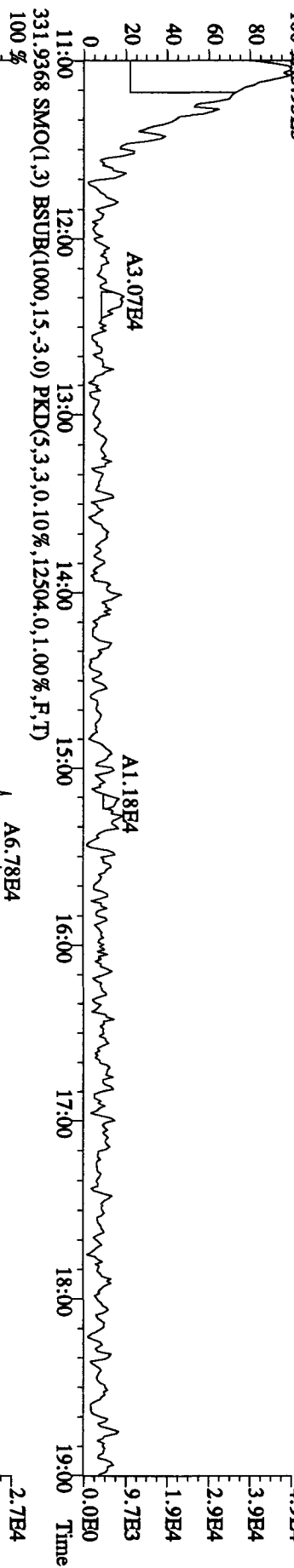
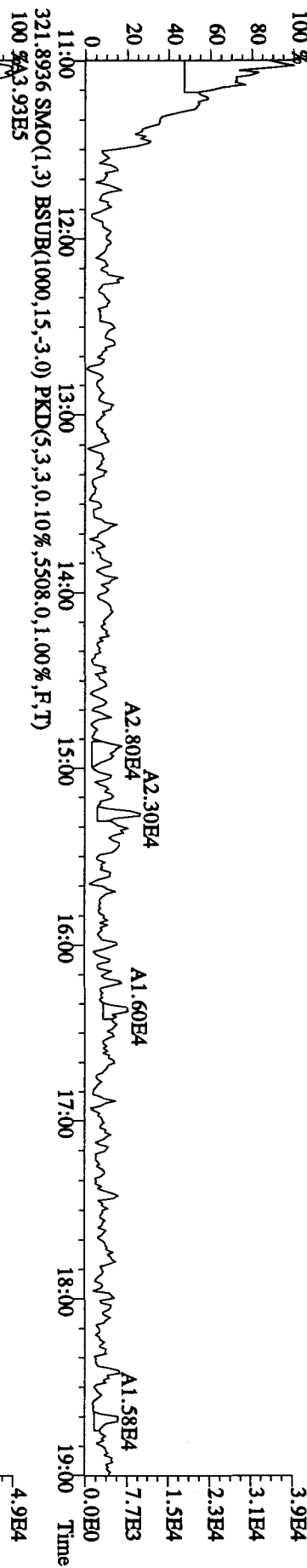
| Name              | Mean  | S. D. | %RSD   | RRF1 | RRF2 | RRF3 | RRF4 | RRF5 |
|-------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,4-TCDD  | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-2,3,7,8-TCDF  | 2.111 | 0.055 | 2.59 % | 2.14 | 2.09 | 2.12 | 2.03 | 2.18 |
| 2,3,7,8-TCDF      | 1.056 | 0.035 | 3.32 % | 1.11 | 1.04 | 1.02 | 1.06 | 1.04 |
| 13C-2,3,7,8-TCDD  | 0.885 | 0.025 | 2.78 % | 0.91 | 0.87 | 0.91 | 0.86 | 0.87 |
| 2,3,7,8-TCDD      | 1.636 | 0.024 | 1.44 % | 1.64 | 1.67 | 1.61 | 1.63 | 1.62 |
| 37Cl-2,3,7,8-TCDD | 1.458 | 0.044 | 3.01 % | 1.40 | 1.42 | 1.47 | 1.49 | 1.50 |



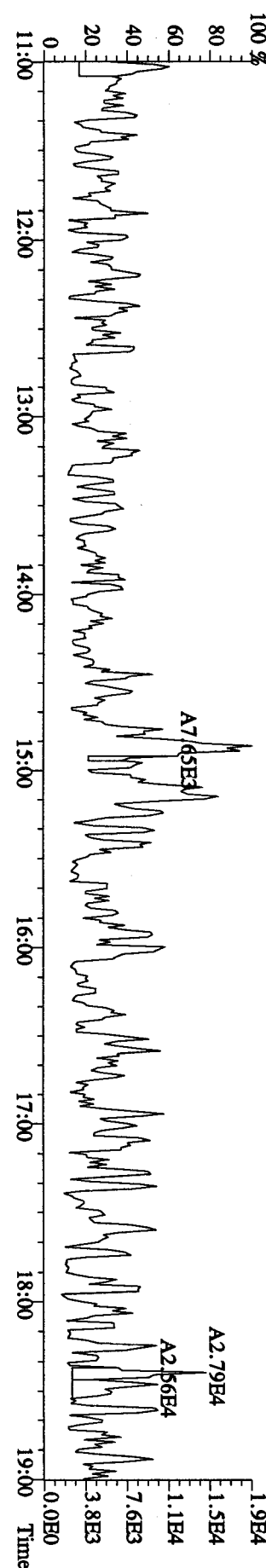
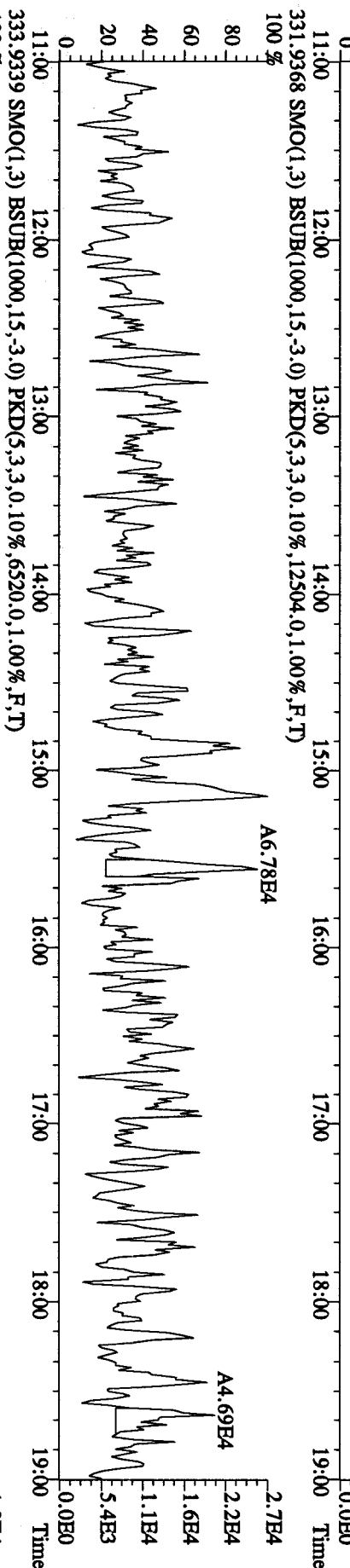
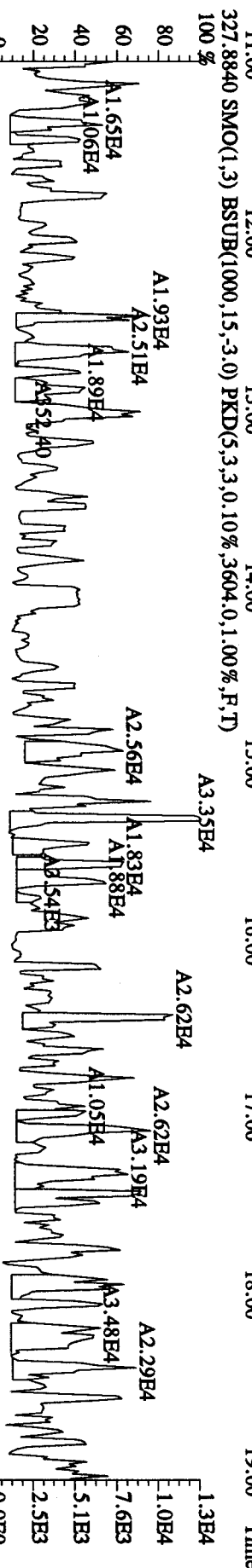
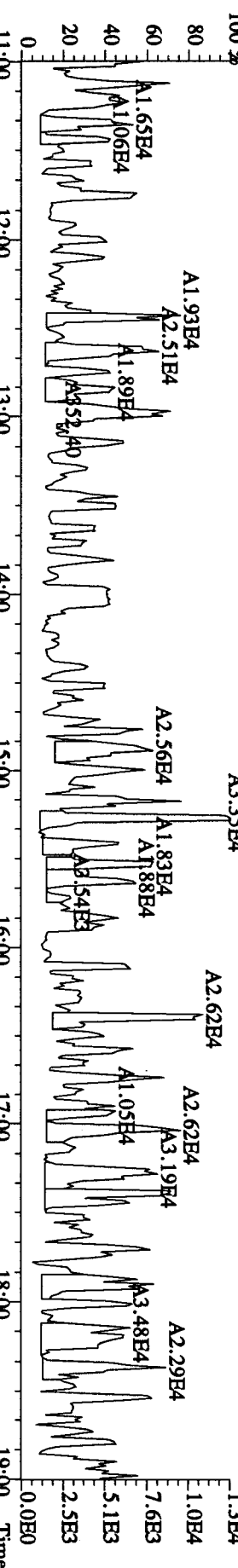
File:180C10A5D2 #1-1242 Acq:18-OCT-2010 13:13:28 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP1018 :DB:225 CP5M 3732-06 Exp:DB225RES  
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5060,0,1,00%,F,T)  
 100 %



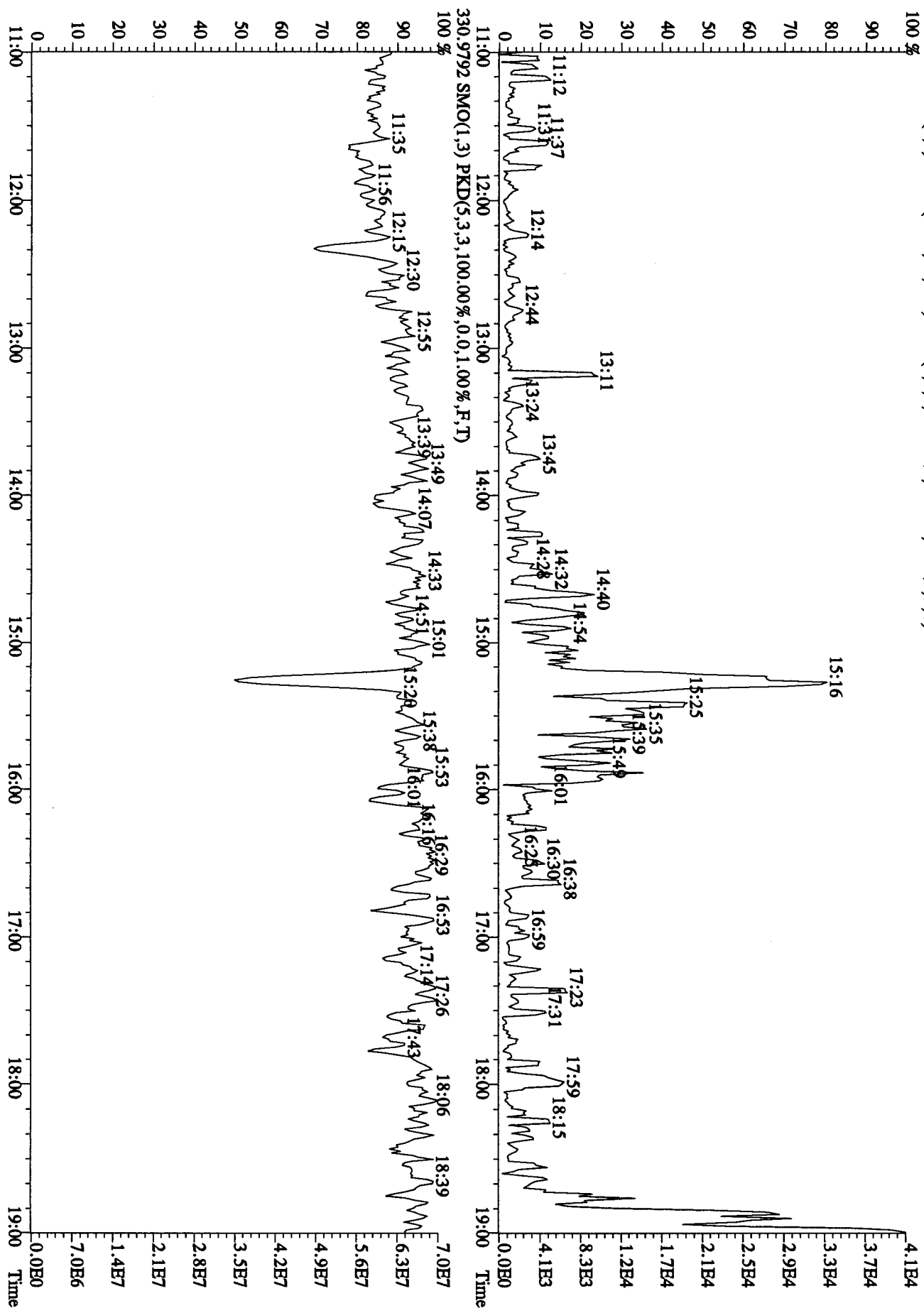
File:18OC10A5D2 #1-1242 Acq:18-OCT-2010 13:13:28 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP1018 :DB-225 CP5M 3732-06 Exp:DB225RES  
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4452,0,1,00%,F,T)



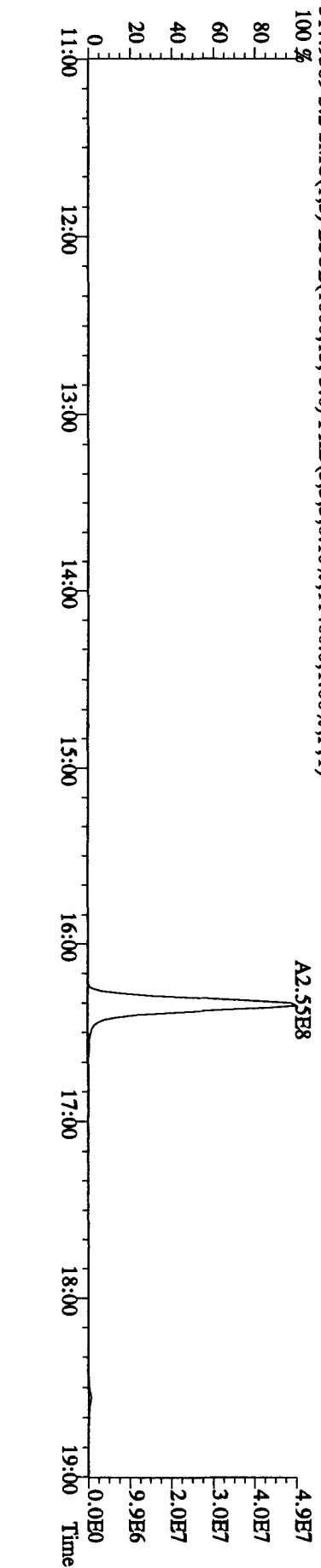
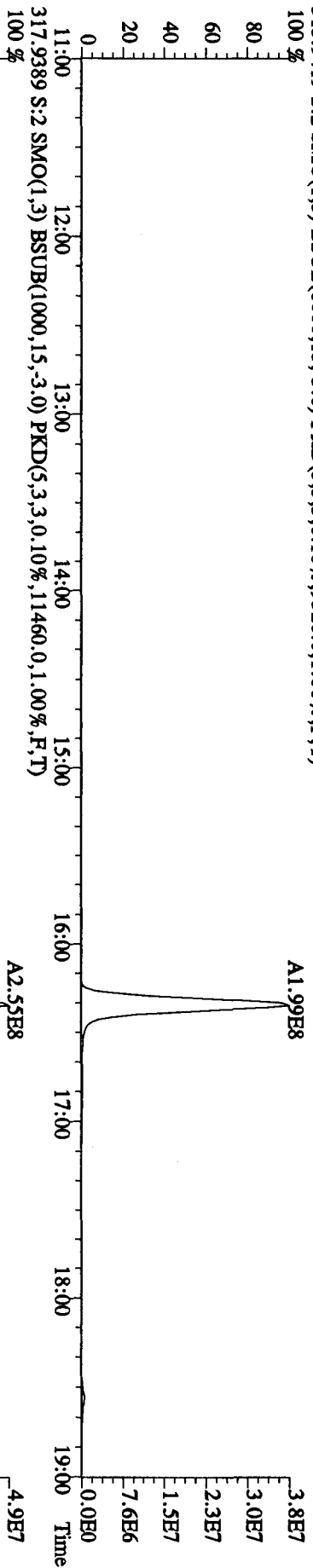
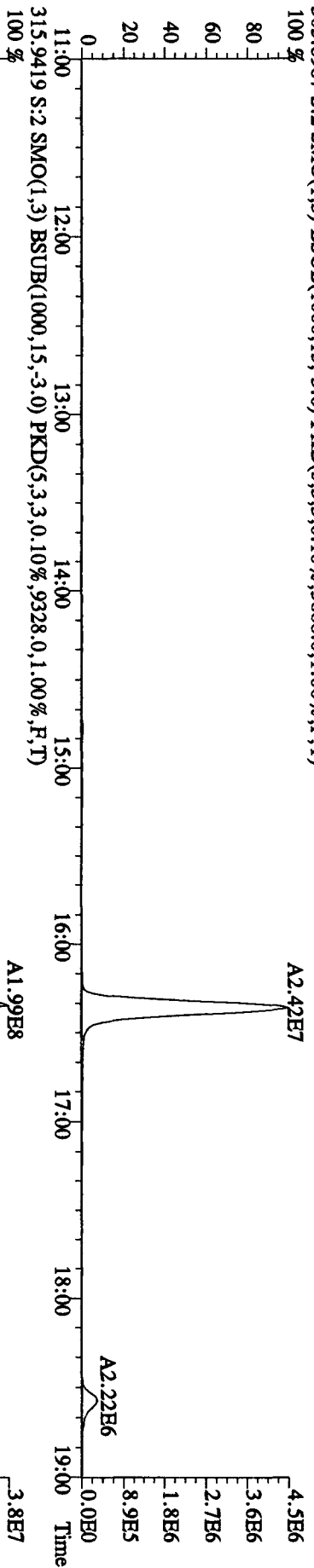
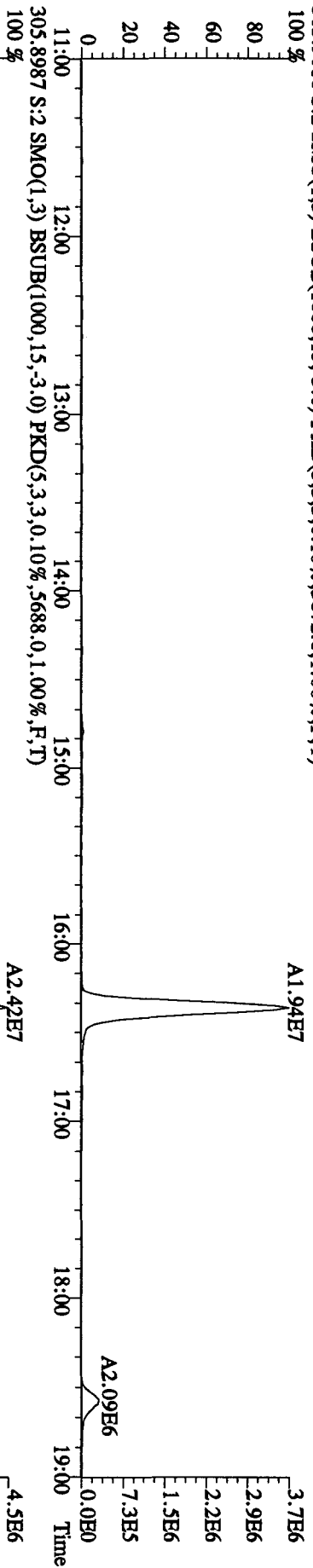
File:18OC10A5D2 #1-1242 Acq:18-OCT-2010 13:13:28 GC HI+ Voltage SIR 70SE  
 Sample#1 Text:CP1018 :DB:225 CP5M 3732-06 Exp:DB225RES  
 327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3604.0,1.00%,F,T)  
 100 %



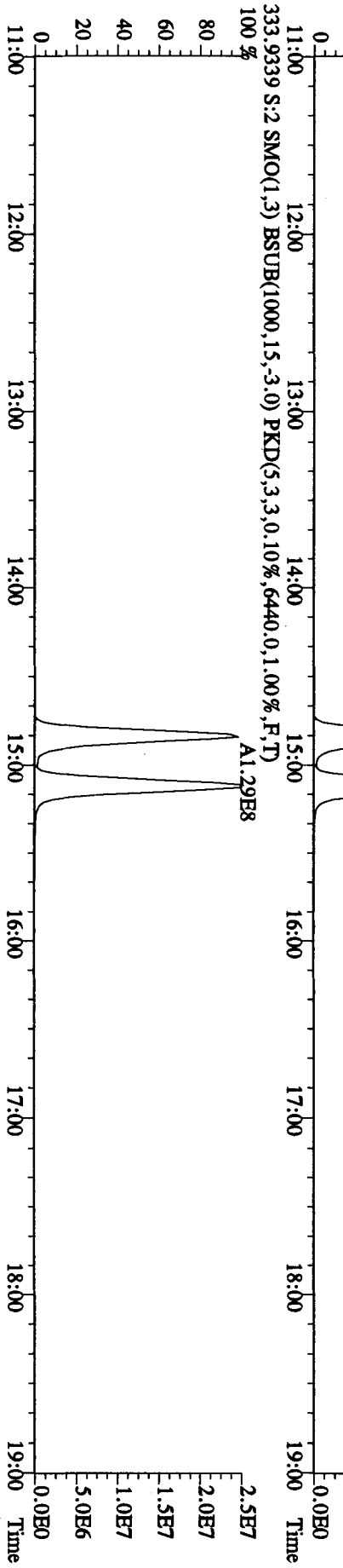
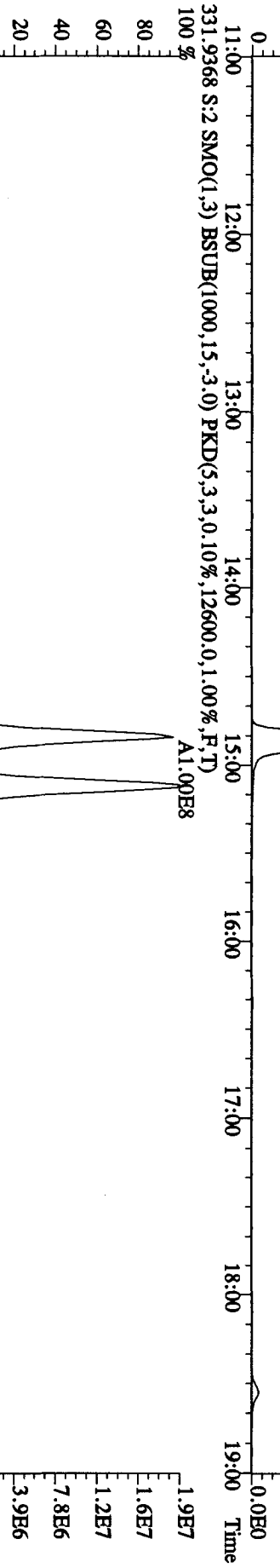
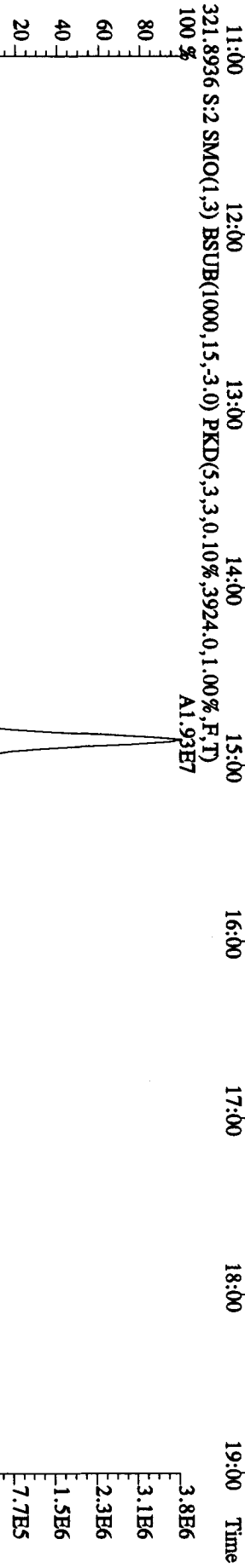
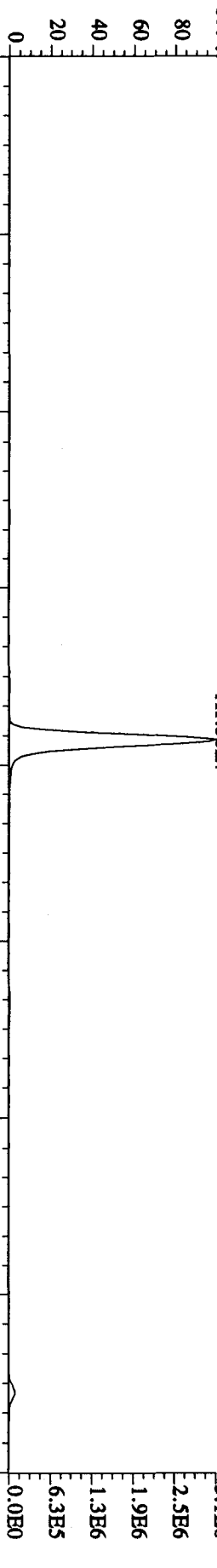
File:18OCT10A5D2 #1-1242 Acq:18-OCT-2010 13:13:28 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP1018 :DB-225 CPM 3732-06 Exp:DB225RES  
 375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1.00%,F,T)



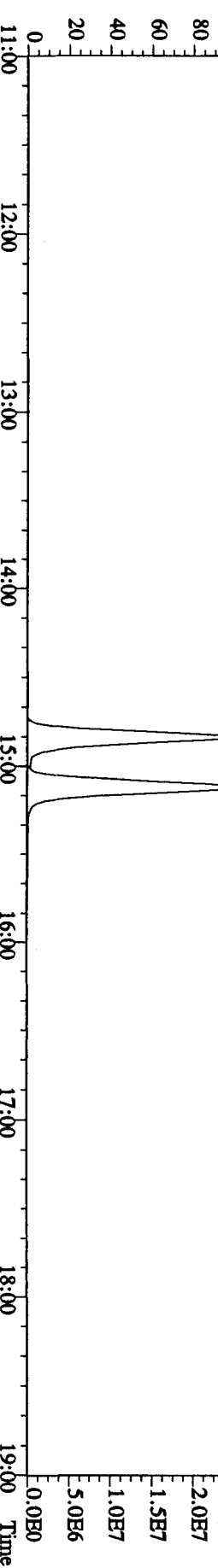
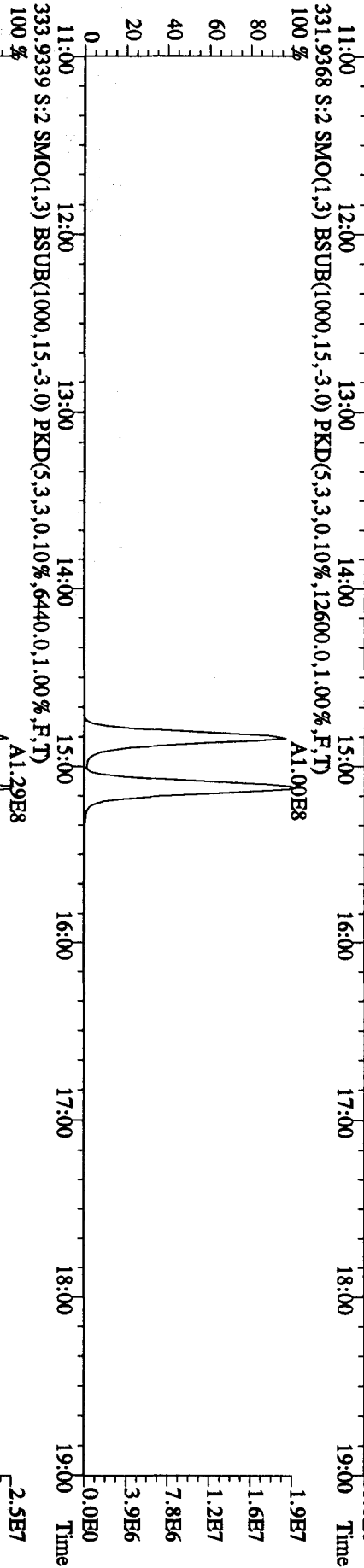
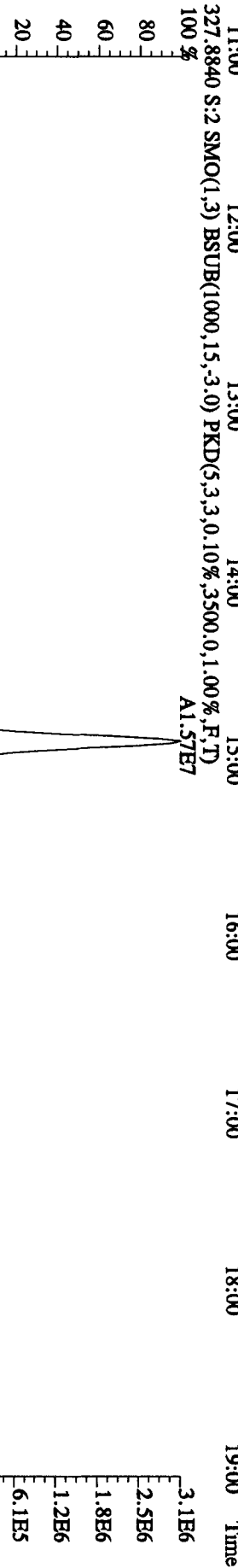
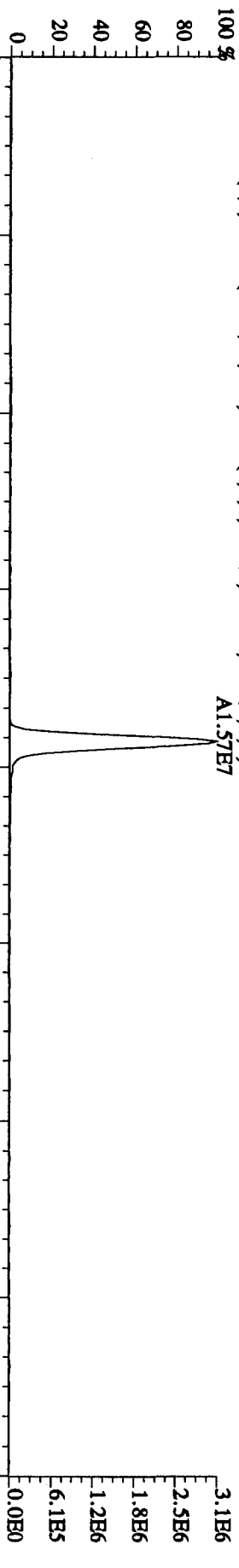
File:18OCT10A5D2 #1-1241 Acq:18-OCT-2010 13:49:46 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DB225RES  
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3872.0,1.00%,F,T)  
 100 %



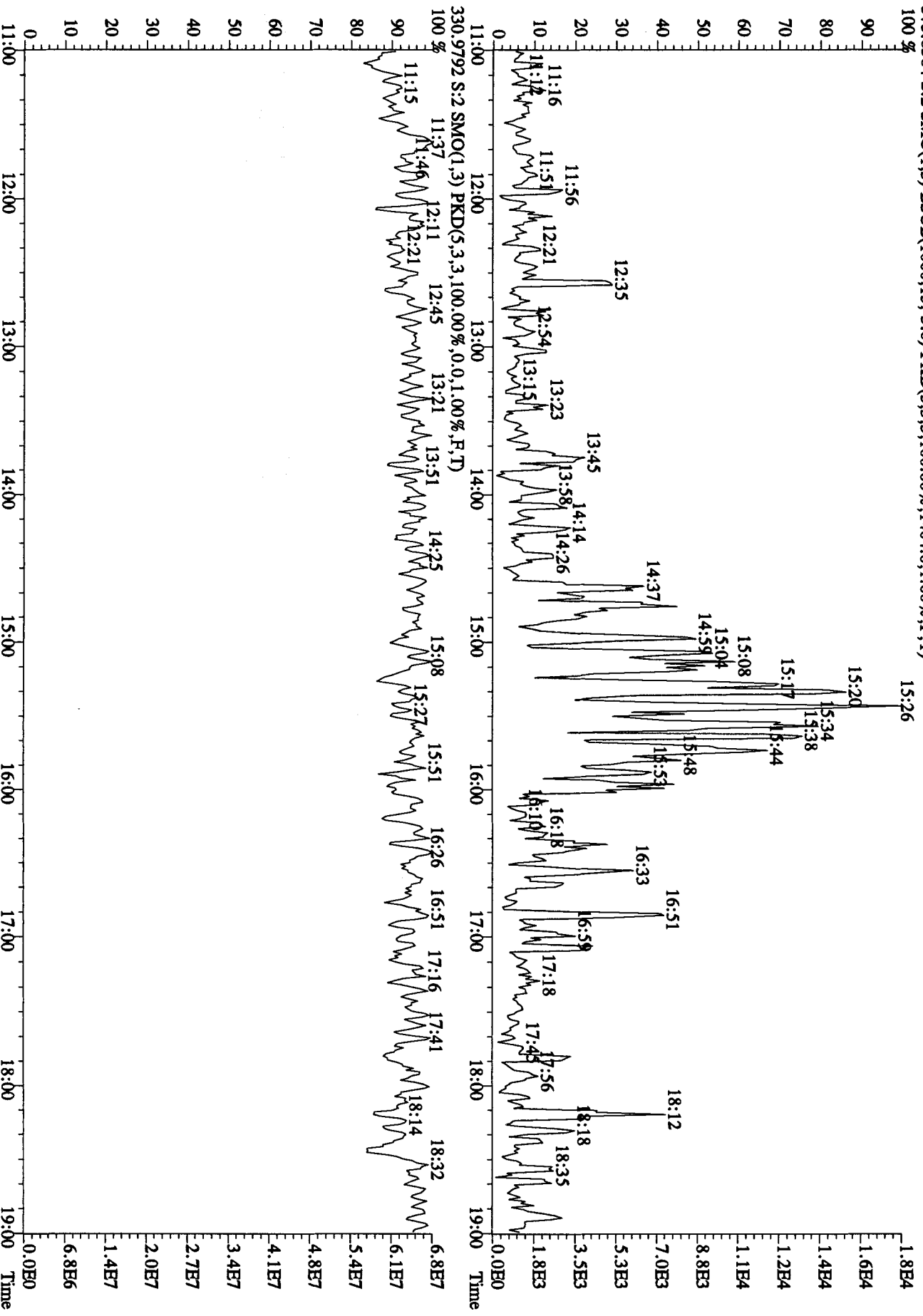
File:18OC10A5D2 #1-1241 Acq:18-OCT-2010 13:49:46 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST1018 :CS3 10DDXN461 Exp:DB225RES  
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3216,0,1.00%,F,T)  
 100% A1.58E7



File:18OCT10A5D2 #1-1241 Acq:18-OCT-2010 13:49:46 GC EI+ Voltage SIR 70SE  
Sample#2 Text:ST1018 :CS3 10DXN461 Exp:DB225RES  
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3500,0,1.00%,F,T)  
100% A1.57E7

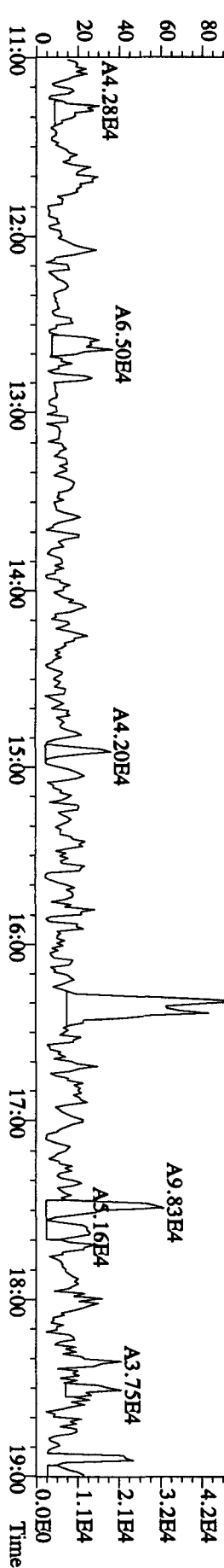
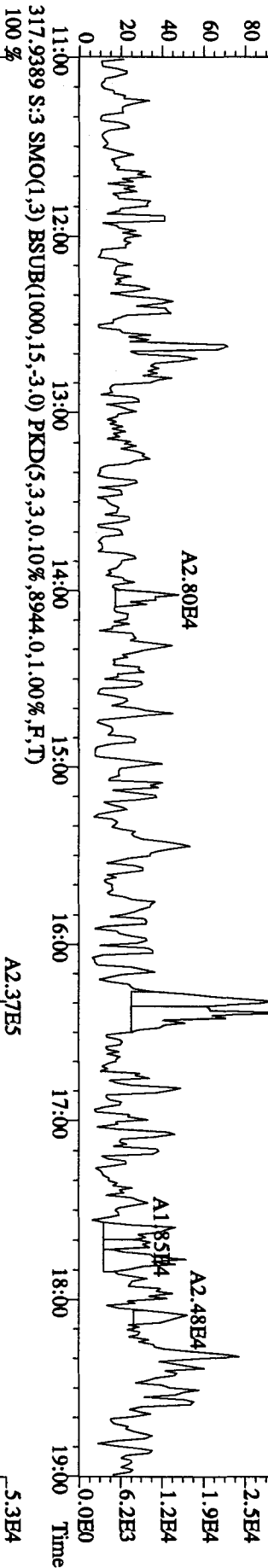
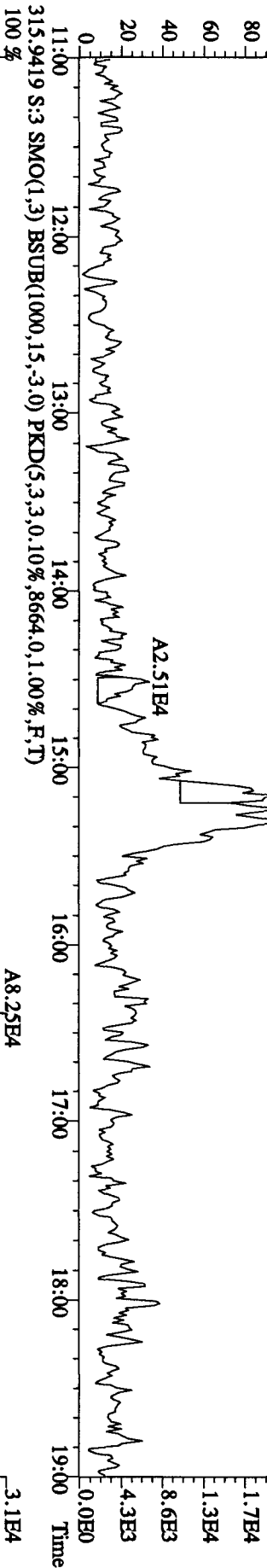
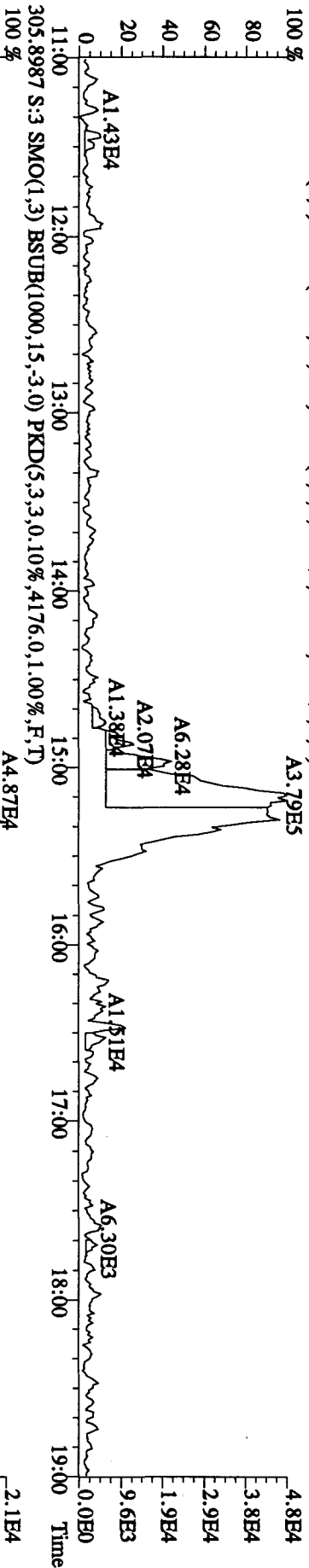


File:18OCC10A5D2 #1-1241 Acq:18-OCT-2010 13:49:46 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST1018 :CSS 10DXN461 Exp:DB225RES  
 375.8364 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,100.00%,1404.0,1.00%,F,T)

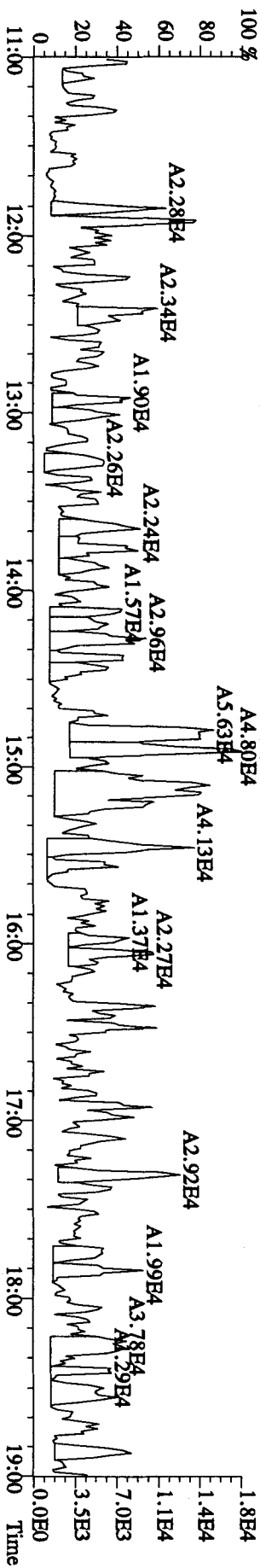
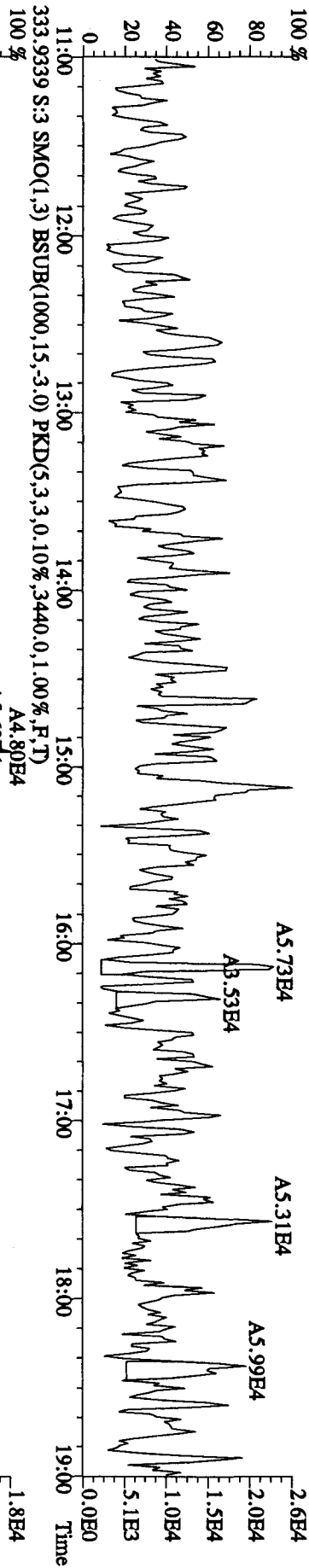
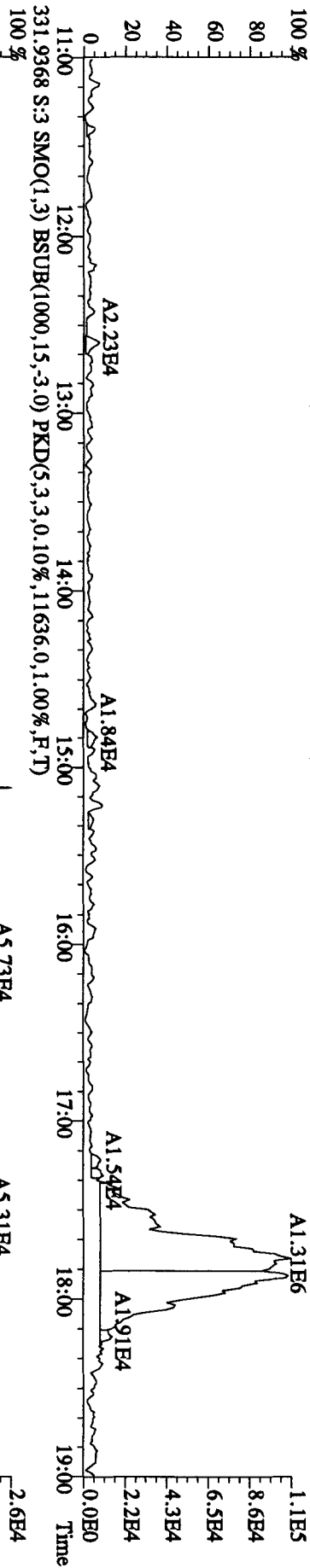
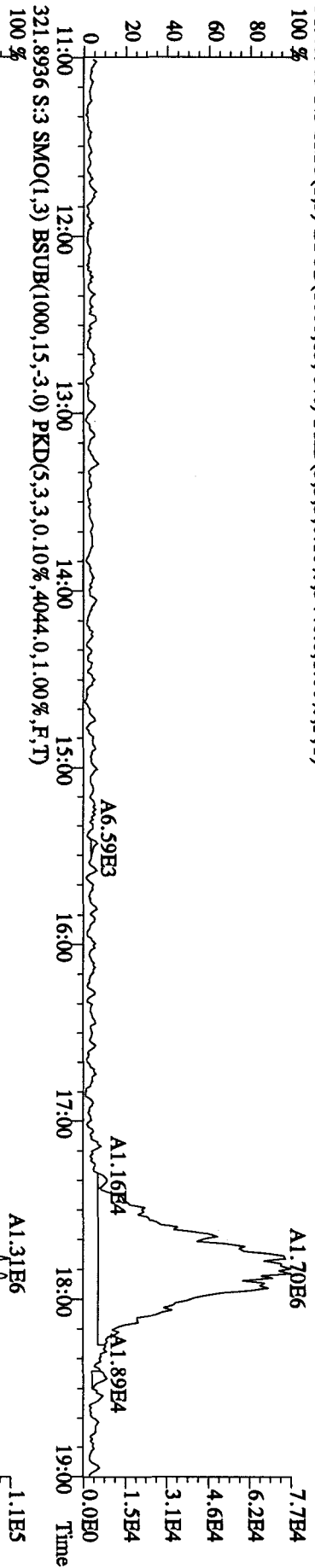




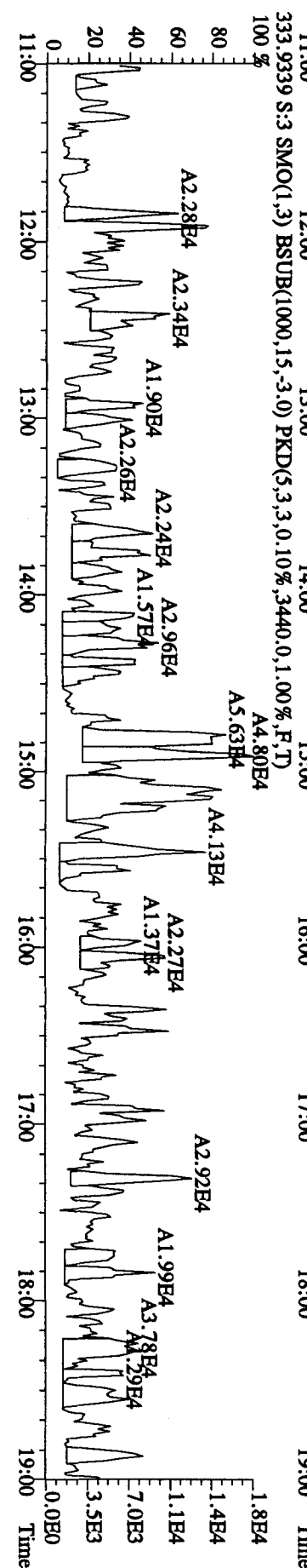
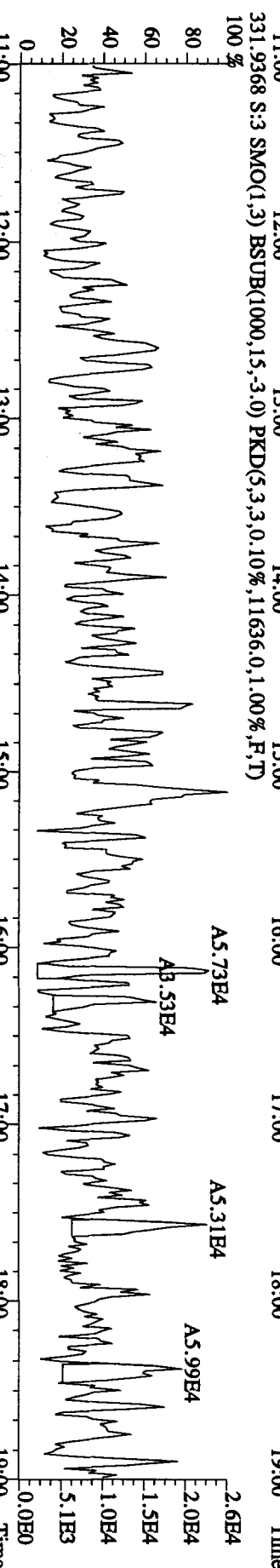
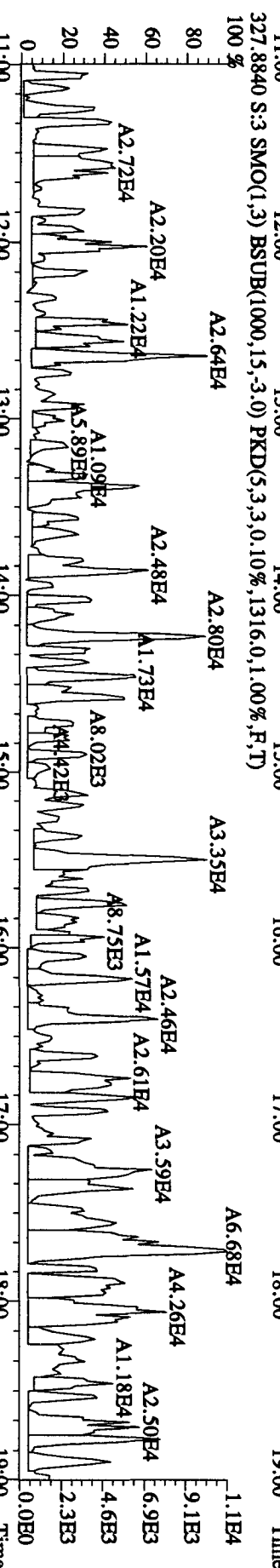
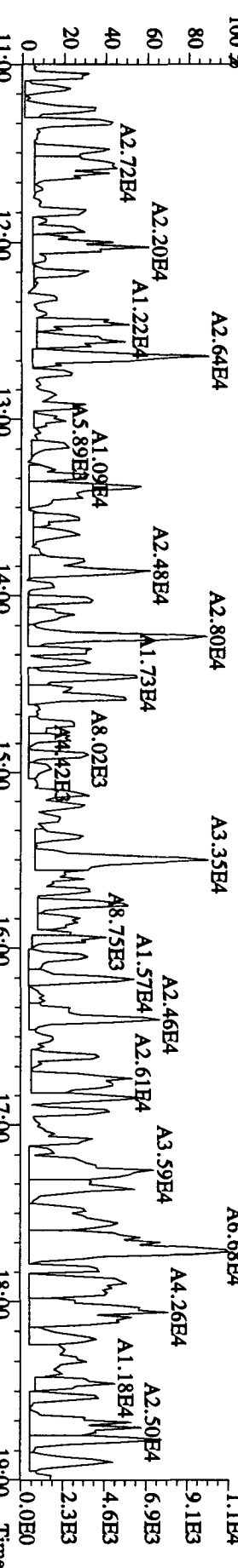
File:18OC10A5D2 #1-1241 Acq:18-OCT-2010 14:26:08 GC BI+ Voltage SIR 70SE  
 Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DB225RES  
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2868,0,1,00%,F,T)



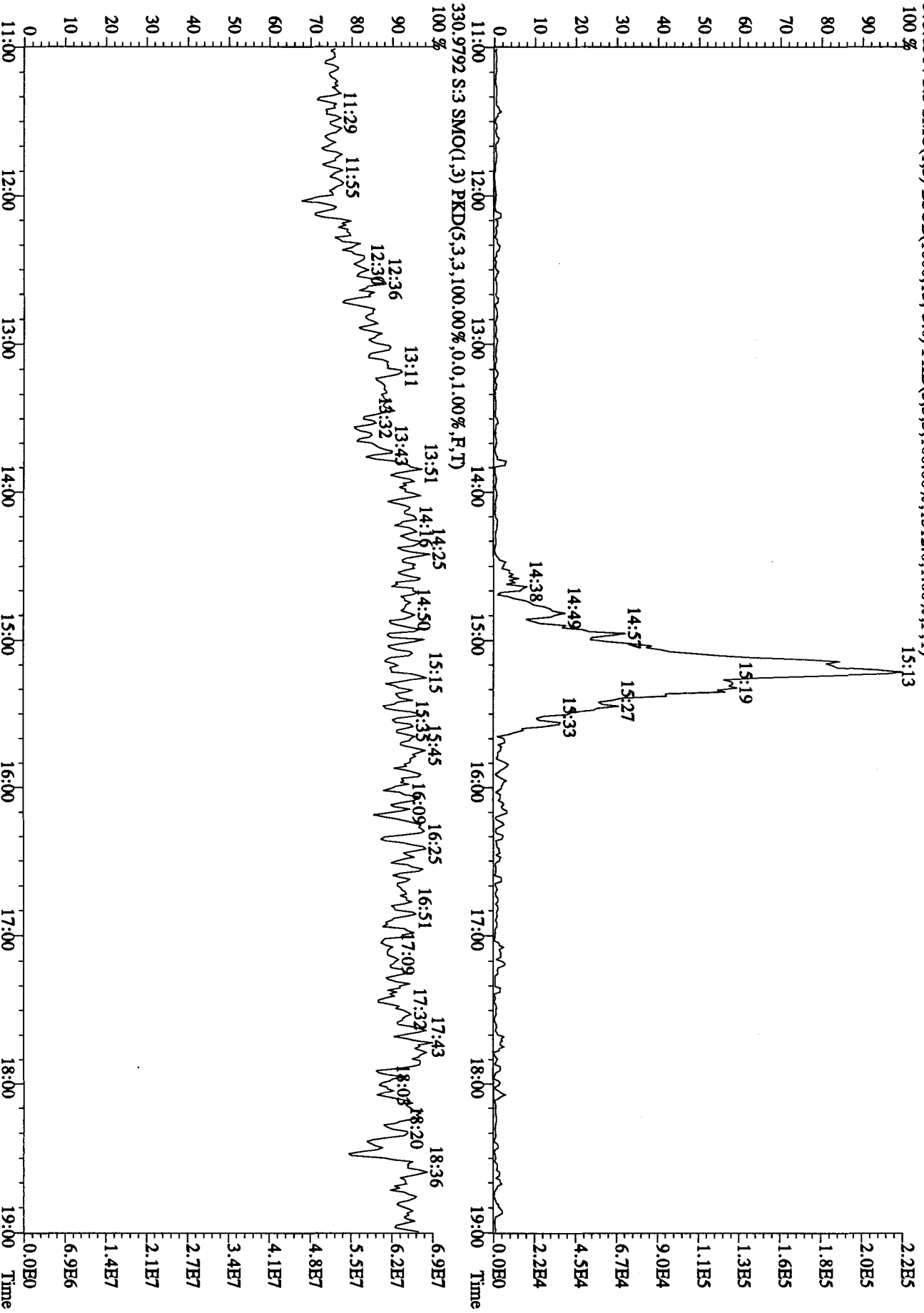
File:18OC10A5D2 #1-1241 Acq:18-OCT-2010 14:26:08 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DB225RES  
 319.9365 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3440,0.1,00%,F,T)



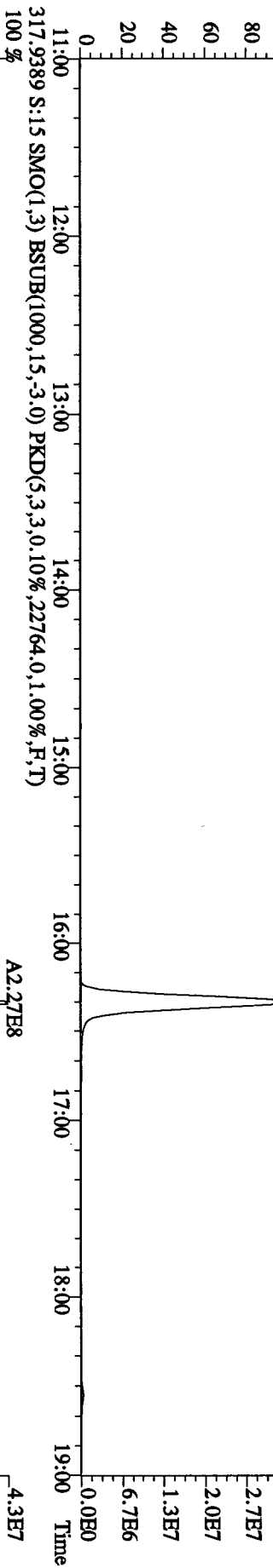
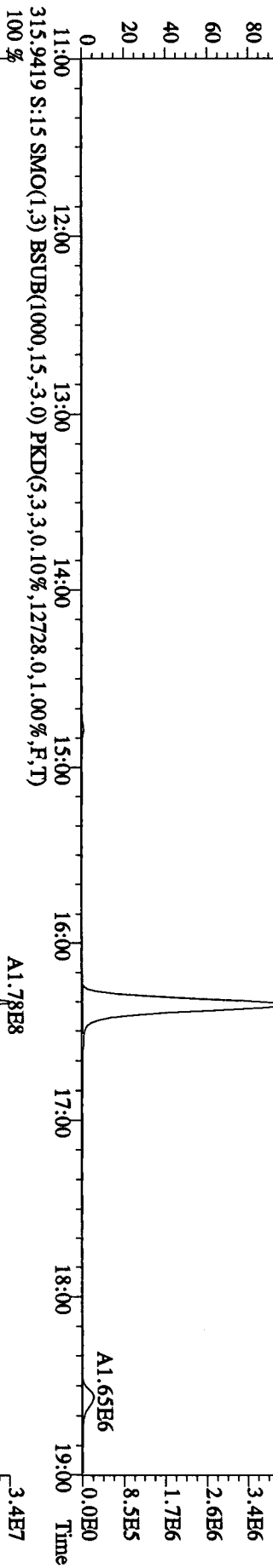
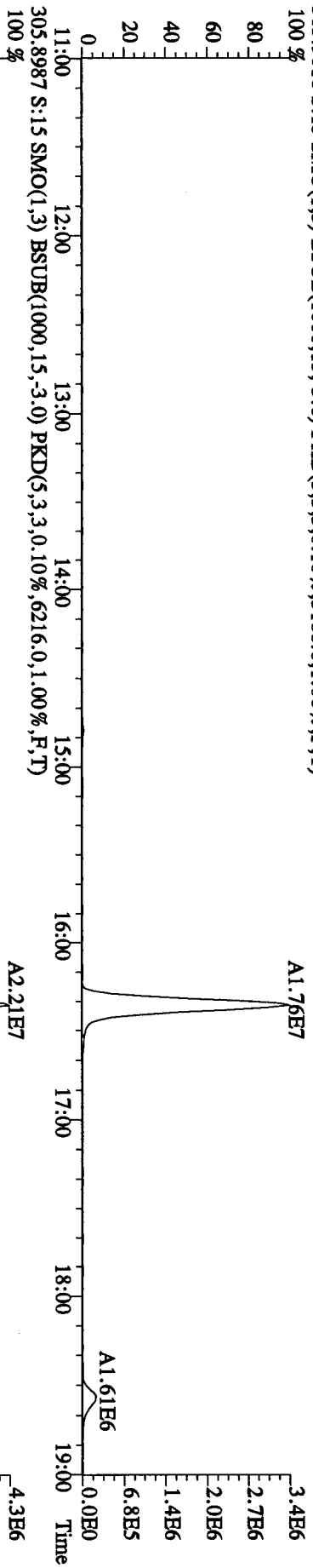
File:18OC10A5D2 #1-1241 Acq:18-OCT-2010 14:26:08 GC EI+ Voltage SIR 70SE  
Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DB225RES  
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1316.0,1.00%,F,T)  
100 %



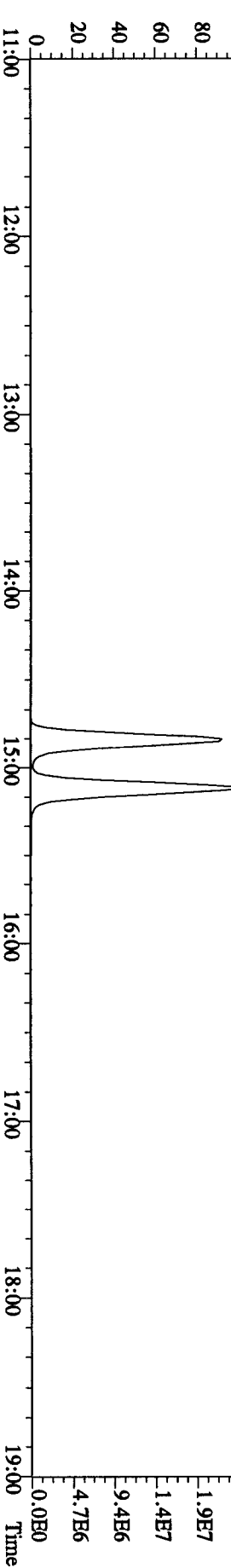
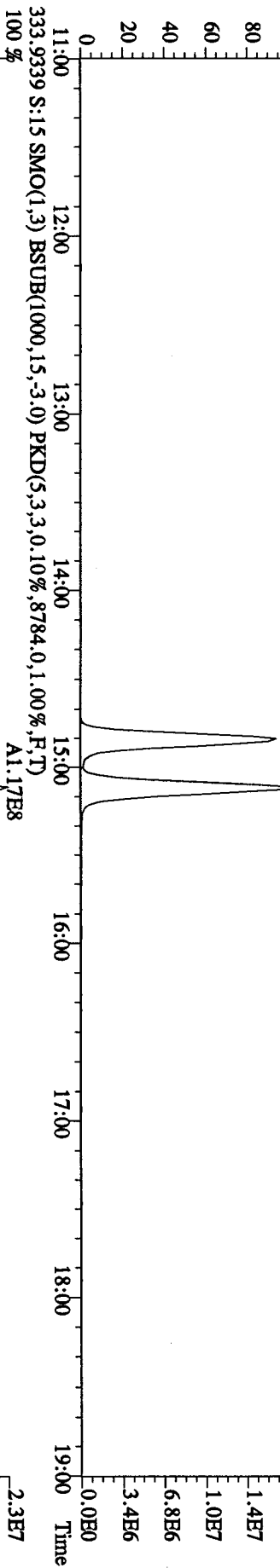
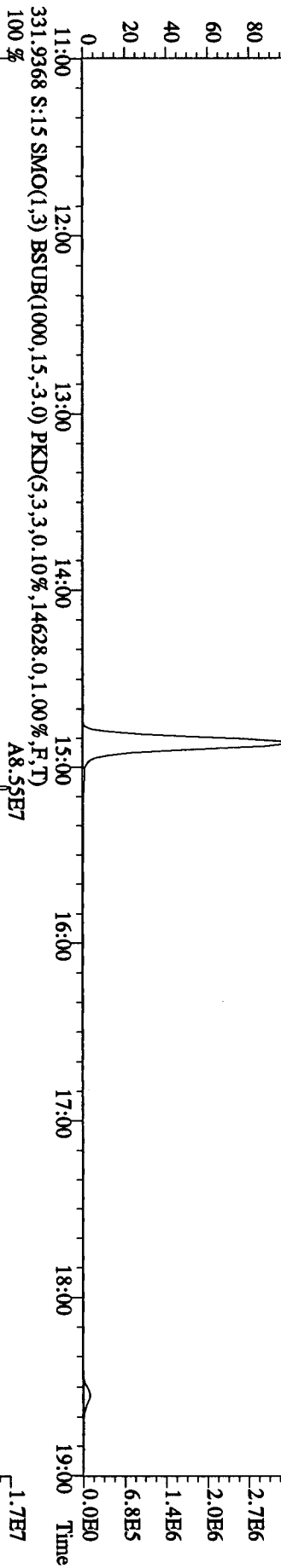
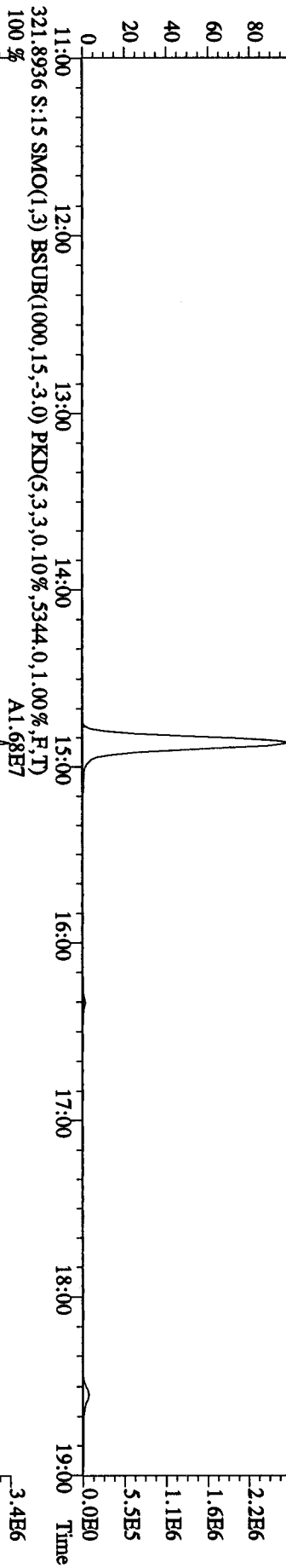
File:18OC10A5D2 #1-1241 Acq:18-OCT-2010 14:26:08 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:SB1018 :Solvent Blank C-14 Exp:DB225RES  
 375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1312.0,1.00%,F,T)



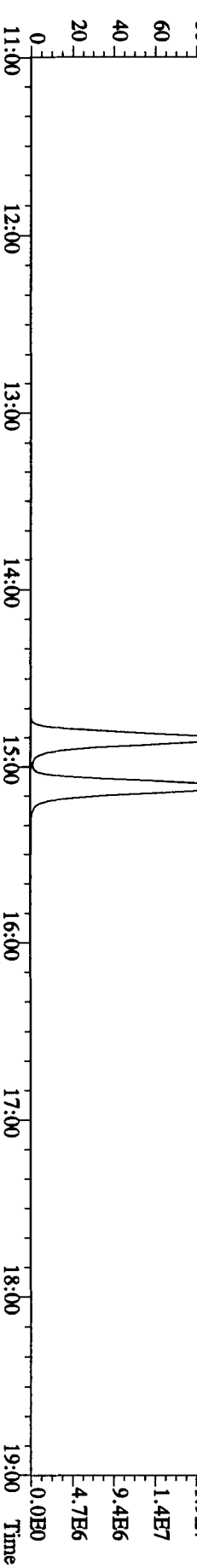
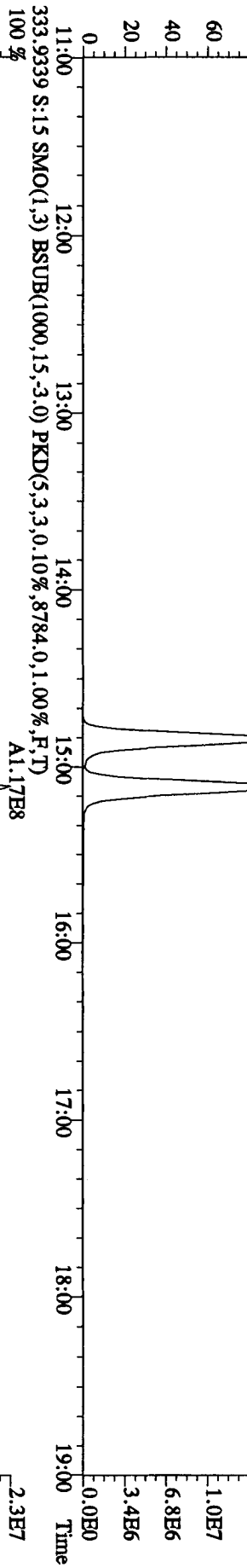
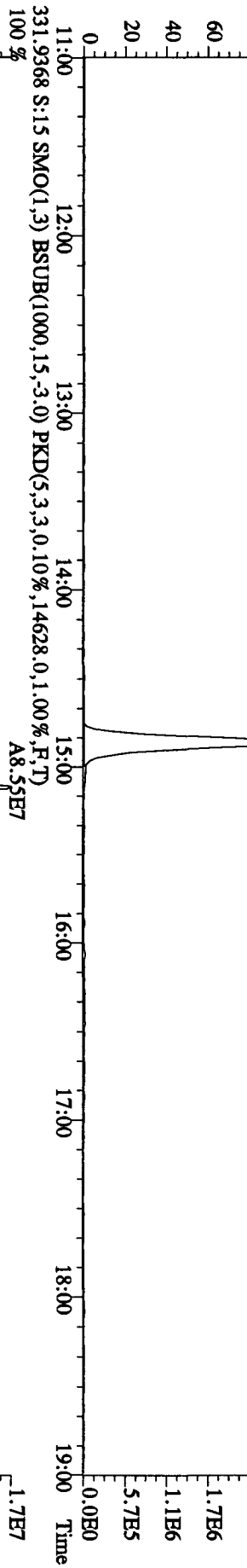
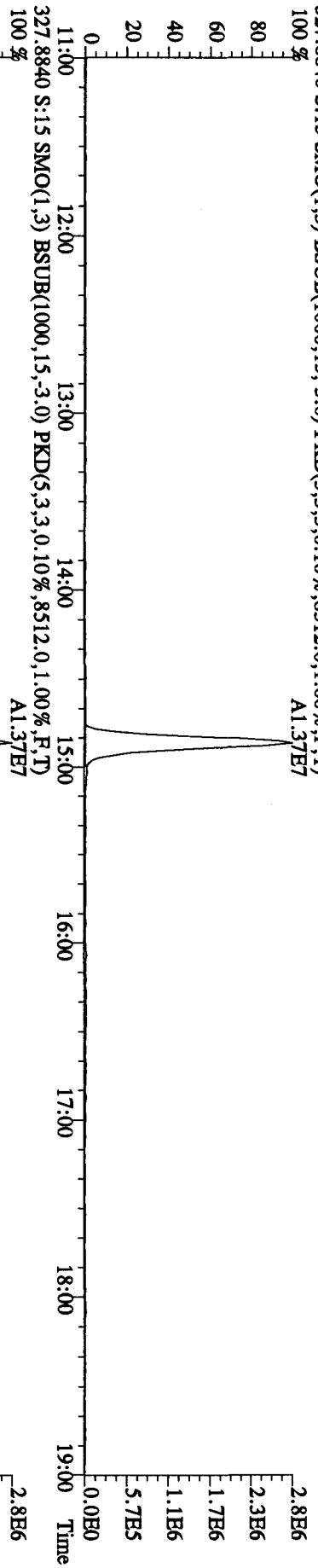
File:18OC10A5D2 #1-1242 Acq:18-OCT-2010 21:42:25 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:ST1018A :CSS 10DXN461 Exp:DB225RES  
 303.9016 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5188.0,1.00%,F,T)  
 100 %



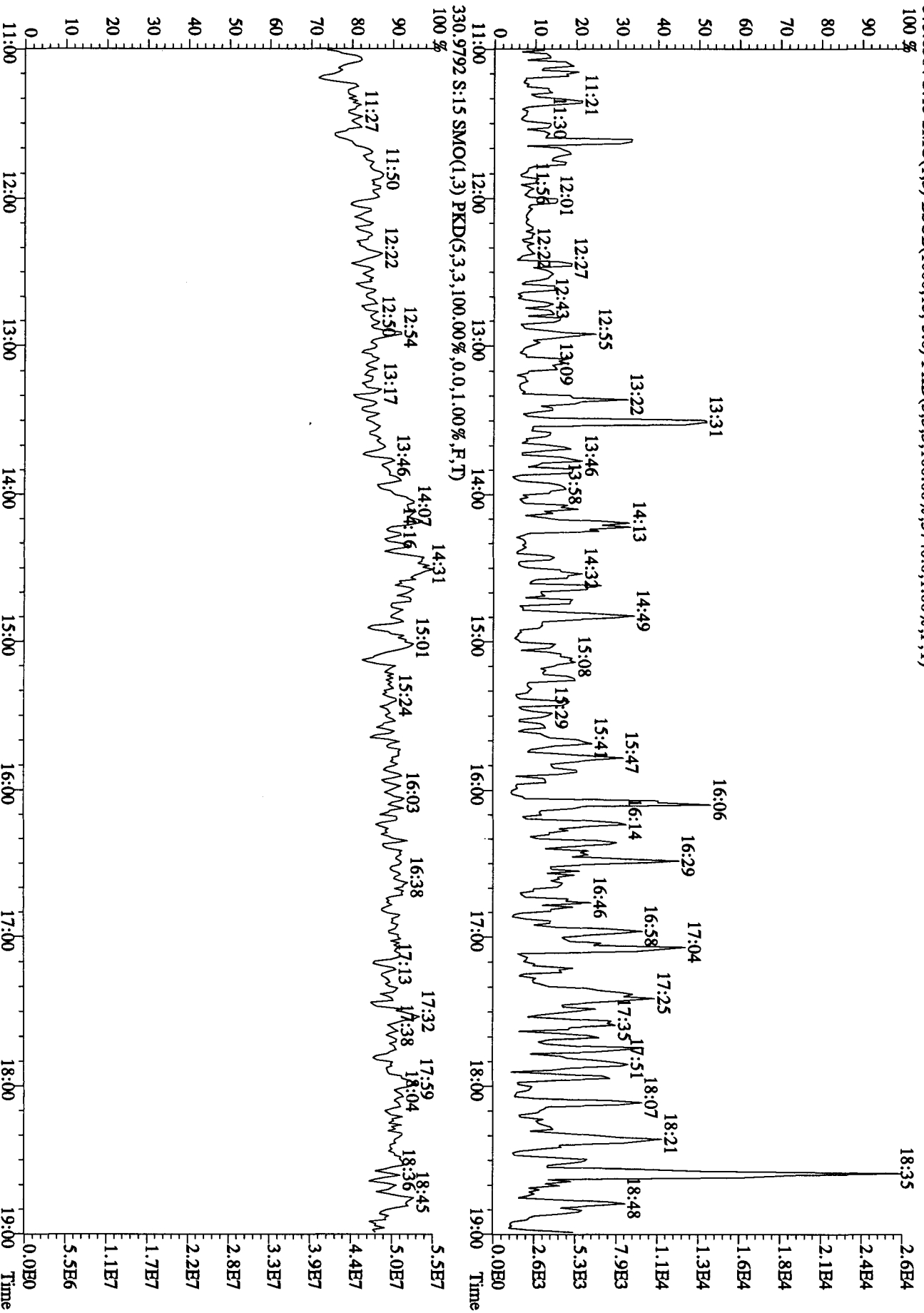
File:18OC10A5D2 #1-1242 Acq:18-OCT-2010 21:42:25 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DB225RBS  
 319.8965 S:15 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4300,0,1.00%,F,T)  
 100% A1.37E7



File:180C10A5D2 #1-1242 Acq:18-OCT-2010 21:42:25 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DB225RES  
 327.8840 S:15 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8512,0,1,00%,F,T)  
 100% A1.37E7



File:18OC10ASD2 #1-1242 Acq:18-OCT-2010 21:42:25 GC EI+ Voltage SIR 70SE  
 Sample#15 Text:ST1018A :CS3 10DXN461 Exp:DB225RES  
 375.8364 S:15 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,3740.0,1.00%,F,T)





## Daily Calibration Checklist Dioxin Methods

Method ID TO9

Associated ICAL TO9 0721104D5

Column ID 8290 DB5 <sup>AS</sup> 10-18-10

Instrument ID 405

STD ID ST1014C, ST1014D

STD Solution 10 DXN461

Analyzed by AS

Date Analyzed 10-15-10

Std. Pkg. By AS

Date Std. Pkg. Assembled 10-18-10

Std. Pkg. Reviewed By M.G.

Date Std. Pkg. Reviewed 10/18/10

| DAILY STANDARD PACKAGE  | INITIATED | REVIEWED |
|---|-----------|----------|
| Standard, CPSM, and Solvent Blank present?  | ✓         | ✓        |
| Copy of log-file and Beginning Static Resolution present?   | ✓         | ✓        |
| CPSM blow up present?   | ✓         | ✓        |
| Curve Summary present?  | ✓         | ✓        |
| Summary of Method criteria present or documented below?   | ✓         | ✓        |
| Daily standard within method specified limits?*   | ✓         | ✓        |
| Analyte retention times correct?  | ✓         | ✓        |
| Isotopic ratios within limits?  | ✓         | ✓        |
| CPSM valley ≤ method specified limits?**  | ✓         | ✓        |
| Are chromatographic windows correct?  | ✓         | ✓        |
| Samples analyzed within 12 hrs of daily standard?   | ✓         | ✓        |
| Manual reintegration's checked and hardcopies included?   | NA        | NA       |
| Ending Standard present?  | ✓         | ✓        |
| Ending Static Resolutions present   | ✓         | ✓        |
| Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples) | NA        | NA       |

COMMENTS:

\* Method 8290/TO9/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.

Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.

Method 23: See Method 23 Daily Standard Criteria, Table 5.

Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria.

\*\* Method 23/0023A CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet

Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1014C File text: ST1014C :CS3 10DXN461  
 Run #6 Filename 14OC104D5 S: 31 I: 1  
 Acquired: 15-OCT-10 08:22:22 Processed: 15-OCT-10 09:20:15  
 Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5TO9

| Name                    | Resp      | RA     | RT    | RRF  | Amount | Dev'n | Mod? |
|-------------------------|-----------|--------|-------|------|--------|-------|------|
| 13C-1,2,3,4-TCDD        | 119509300 | 0.80 y | 20:06 | -    | 100.00 | -     | n    |
| 13C-2,3,7,8-TCDF        | 156271300 | 0.79 y | 19:30 | 1.31 | 100.00 | 6.4   | n    |
| 2,3,7,8-TCDF            | 14948960  | 0.78 y | 19:32 | 0.96 | 10.00  | -3.8  | n    |
| Total TCDF              | 15274603  | 0.76 y | 19:06 | 0.96 | 10.00  | -3.8  | n    |
| 13C-2,3,7,8-TCDD        | 117443500 | 0.79 y | 20:20 | 0.98 | 100.00 | 8.6   | n    |
| 2,3,7,8-TCDD            | 12075640  | 0.76 y | 20:21 | 1.03 | 10.00  | 4.5   | n    |
| Total TCDD              | 12307919  | 0.93 n | 17:07 | 1.03 | 10.00  | 4.5   | n    |
| 37Cl-2,3,7,8-TCDD       | 14936640  | 1.00 y | 20:21 | 1.27 | 10.00  | -4.1  | n    |
| 13C-1,2,3,7,8-PeCDF     | 128479600 | 1.60 y | 25:27 | 1.08 | 100.00 | 22.7  | n    |
| 1,2,3,7,8-PeCDF         | 71421600  | 1.56 y | 25:29 | 1.11 | 50.00  | 3.3   | n    |
| 2,3,4,7,8-PeCDF         | 66802600  | 1.54 y | 27:02 | 1.04 | 50.00  | -0.5  | n    |
| Total F2 PeCDF          | 139127016 | 2.46 n | 23:49 | 1.08 | 100.00 | 1.4   | n    |
| Total F1 PeCDF          | 22654     | 0.75 n | 15:09 | 1.08 | 100.00 | 1.4   | n    |
| 13C-1,2,3,7,8-PeCDD     | 88188300  | 1.60 y | 27:52 | 0.74 | 100.00 | 11.7  | n    |
| 1,2,3,7,8-PeCDD         | 46600800  | 1.46 y | 27:54 | 1.06 | 50.00  | 14.2  | n    |
| Total PeCDD             | 46600800  | 1.46 y | 27:54 | 1.06 | 50.00  | 14.2  | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 88892000  | 1.30 y | 33:26 | -    | 100.00 | -     | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 86244600  | 0.51 y | 32:20 | 0.97 | 100.00 | -7.1  | n    |
| 1,2,3,4,7,8-HxCDF       | 53552100  | 1.17 y | 32:22 | 1.24 | 50.00  | 2.0   | n    |
| 1,2,3,6,7,8-HxCDF       | 62930000  | 1.19 y | 32:28 | 1.46 | 50.00  | 13.9  | n    |
| 2,3,4,6,7,8-HxCDF       | 57959800  | 1.20 y | 32:59 | 1.34 | 50.00  | 9.0   | n    |
| 1,2,3,7,8,9-HxCDF       | 52110300  | 1.21 y | 33:37 | 1.21 | 50.00  | 10.0  | n    |
| Total HxCDF             | 226812365 | 0.93 n | 31:23 | 1.31 | 200.00 | 8.8   | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 80427500  | 1.26 y | 33:10 | 0.90 | 100.00 | 8.9   | n    |
| 1,2,3,4,7,8-HxCDD       | 40334100  | 1.27 y | 33:06 | 1.00 | 50.00  | -3.3  | n    |
| 1,2,3,6,7,8-HxCDD       | 46221400  | 1.30 y | 33:11 | 1.15 | 50.00  | -1.2  | n    |
| 1,2,3,7,8,9-HxCDD       | 47218300  | 1.28 y | 33:27 | 1.17 | 50.00  | -0.6  | n    |
| Total HxCDD             | 133773800 | 1.27 y | 33:06 | 1.11 | 150.00 | -1.6  | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 75368200  | 0.44 y | 34:58 | 0.85 | 100.00 | -6.8  | n    |
| 1,2,3,4,6,7,8-HpCDF     | 56874700  | 1.05 y | 34:59 | 1.51 | 50.00  | 12.1  | n    |
| 1,2,3,4,7,8,9-HpCDF     | 47298700  | 1.05 y | 36:08 | 1.26 | 50.00  | 14.8  | n    |
| Total HpCDF             | 104487485 | 1.05 y | 34:59 | 1.38 | 100.00 | 13.3  | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 71200700  | 1.03 y | 35:48 | 0.80 | 100.00 | -3.1  | n    |
| 1,2,3,4,6,7,8-HpCDD     | 38712100  | 1.02 y | 35:49 | 1.09 | 50.00  | 1.5   | n    |
| Total HpCDD             | 39213147  | 1.10 y | 35:14 | 1.09 | 50.00  | 1.5   | n    |
| 13C-OCDD                | 101037300 | 0.90 y | 38:22 | 0.57 | 200.00 | -8.3  | n    |
| OCDF                    | 71514300  | 0.90 y | 38:29 | 1.42 | 100.00 | 3.3   | n    |
| OCDD                    | 61331100  | 0.89 y | 38:23 | 1.21 | 100.00 | 1.2   | n    |

Run text: ST1014D File text: ST1014D :CS3 10DXN461  
 Run #15 Filename 14OC104D5 S: 46 I: 1  
 Acquired: 15-OCT-10 19:31:23 Processed: 15-OCT-10 23:22:36  
 Run: 14OC104D5 Analyte: TO9 Cal: TO90721104D5 Results: 14OC104D5TO9

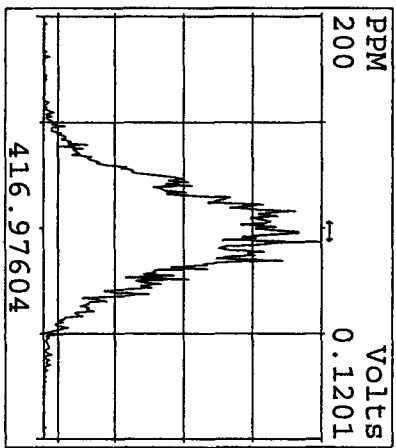
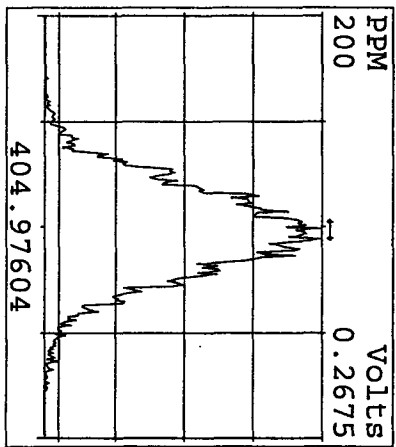
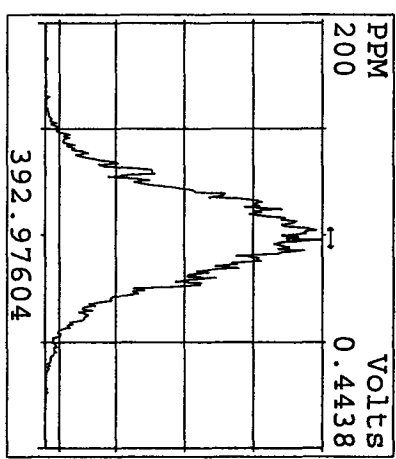
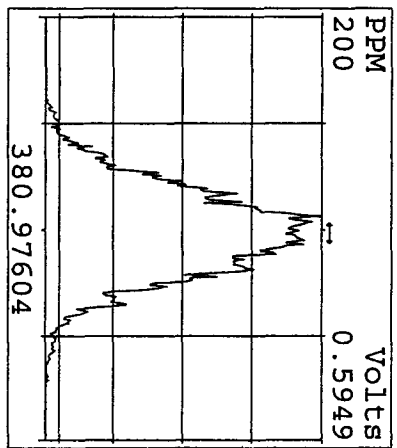
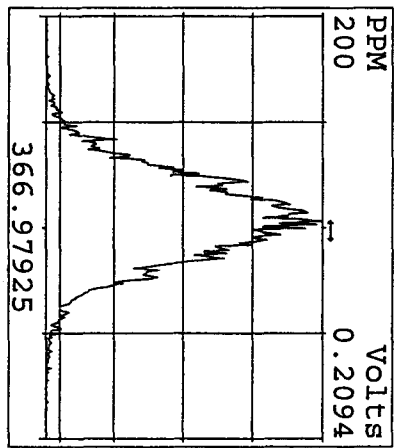
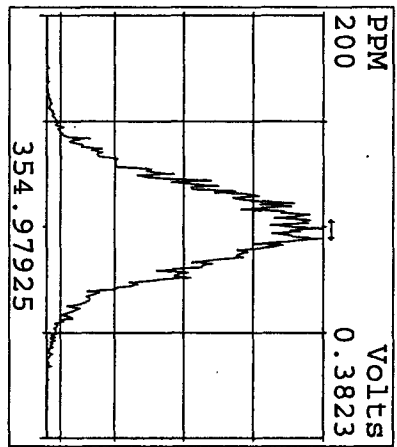
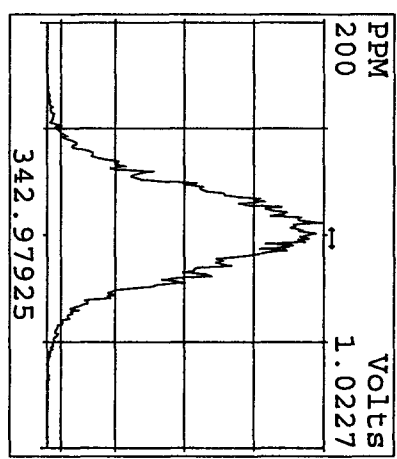
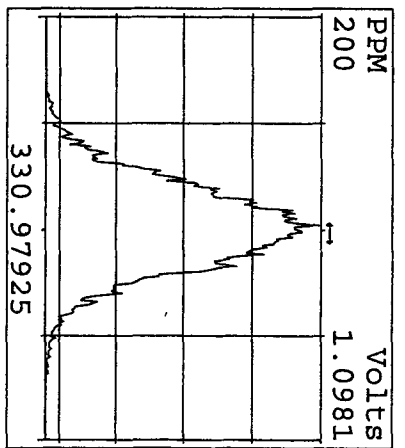
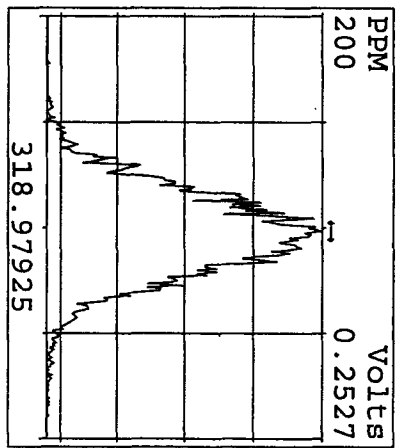
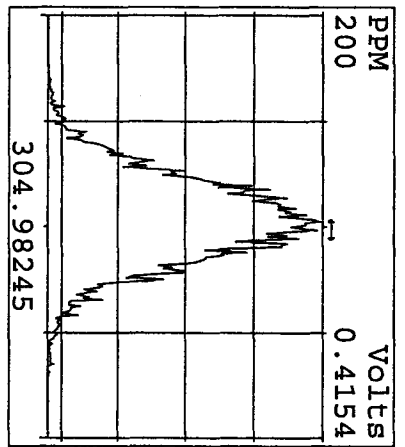
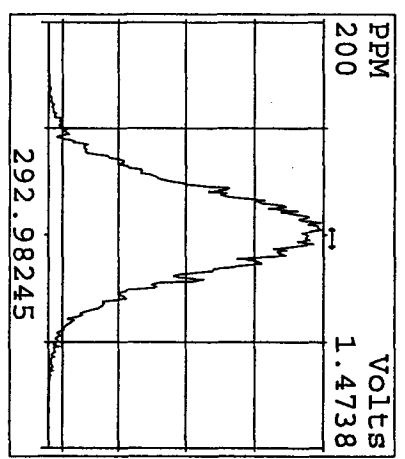
| Name                    | Resp      | RA     | RT    | RRF  | Amount | Dev'n | Mod? |
|-------------------------|-----------|--------|-------|------|--------|-------|------|
| 13C-1,2,3,4-TCDD        | 120077800 | 0.79 y | 20:04 | -    | 100.00 | -     | n    |
| 13C-2,3,7,8-TCDF        | 152280900 | 0.79 y | 19:29 | 1.27 | 100.00 | 3.2   | n    |
| 2,3,7,8-TCDF            | 14923520  | 0.83 y | 19:30 | 0.98 | 10.00  | -1.5  | n    |
| Total TCDF              | 15223468  | 0.94 n | 19:05 | 0.98 | 10.00  | -1.5  | n    |
| 13C-2,3,7,8-TCDD        | 115997200 | 0.79 y | 20:18 | 0.97 | 100.00 | 6.7   | n    |
| 2,3,7,8-TCDD            | 11664710  | 0.77 y | 20:19 | 1.01 | 10.00  | 2.3   | n    |
| Total TCDD              | 11704697  | 0.70 y | 19:00 | 1.01 | 10.00  | 2.3   | n    |
| 37Cl-2,3,7,8-TCDD       | 14512840  | 1.00 y | 20:19 | 1.25 | 10.00  | -5.7  | n    |
| 13C-1,2,3,7,8-PeCDF     | 119214400 | 1.59 y | 25:23 | 0.99 | 100.00 | 13.3  | n    |
| 1,2,3,7,8-PeCDF         | 65994600  | 1.53 y | 25:25 | 1.11 | 50.00  | 2.8   | n    |
| 2,3,4,7,8-PeCDF         | 61817200  | 1.54 y | 26:59 | 1.04 | 50.00  | -0.8  | n    |
| Total F2 PeCDF          | 129189118 | 2.93 n | 23:48 | 1.07 | 100.00 | 1.0   | n    |
| Total F1 PeCDF          | 49144     | 0.36 n | 16:45 | 1.07 | 100.00 | 1.0   | n    |
| 13C-1,2,3,7,8-PeCDD     | 80732400  | 1.56 y | 27:50 | 0.67 | 100.00 | 1.7   | n    |
| 1,2,3,7,8-PeCDD         | 42936700  | 1.43 y | 27:51 | 1.06 | 50.00  | 14.9  | n    |
| Total PeCDD             | 43142278  | 1.43 y | 27:51 | 1.06 | 50.00  | 14.9  | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 76518000  | 1.25 y | 33:25 | -    | 100.00 | -     | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 80574500  | 0.51 y | 32:20 | 1.05 | 100.00 | 0.8   | n    |
| 1,2,3,4,7,8-HxCDF       | 49213300  | 1.19 y | 32:21 | 1.22 | 50.00  | 0.4   | n    |
| 1,2,3,6,7,8-HxCDF       | 54775000  | 1.19 y | 32:28 | 1.36 | 50.00  | 6.1   | n    |
| 2,3,4,6,7,8-HxCDF       | 50443800  | 1.18 y | 32:59 | 1.25 | 50.00  | 1.5   | n    |
| 1,2,3,7,8,9-HxCDF       | 43105100  | 1.21 y | 33:36 | 1.07 | 50.00  | -2.6  | n    |
| Total HxCDF             | 197610283 | 1.01 n | 31:21 | 1.23 | 200.00 | 1.5   | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 69590700  | 1.28 y | 33:10 | 0.91 | 100.00 | 9.5   | n    |
| 1,2,3,4,7,8-HxCDD       | 35918700  | 1.28 y | 33:06 | 1.03 | 50.00  | -0.5  | n    |
| 1,2,3,6,7,8-HxCDD       | 39673500  | 1.31 y | 33:10 | 1.14 | 50.00  | -1.9  | n    |
| 1,2,3,7,8,9-HxCDD       | 40455400  | 1.28 y | 33:26 | 1.16 | 50.00  | -1.6  | n    |
| Total HxCDD             | 116047600 | 1.28 y | 33:06 | 1.11 | 150.00 | -1.4  | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 62731600  | 0.44 y | 34:57 | 0.82 | 100.00 | -9.9  | n    |
| 1,2,3,4,6,7,8-HpCDF     | 46521300  | 1.06 y | 34:58 | 1.48 | 50.00  | 10.2  | n    |
| 1,2,3,4,7,8,9-HpCDF     | 38243900  | 1.05 y | 36:09 | 1.22 | 50.00  | 11.5  | n    |
| Total HpCDF             | 85046659  | 1.06 y | 34:58 | 1.35 | 100.00 | 10.8  | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 56631100  | 1.06 y | 35:47 | 0.74 | 100.00 | -10.5 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 31315000  | 1.00 y | 35:48 | 1.11 | 50.00  | 3.2   | n    |
| Total HpCDD             | 31491025  | 0.97 y | 35:14 | 1.11 | 50.00  | 3.2   | n    |
| 13C-OCDD                | 79727100  | 0.89 y | 38:23 | 0.52 | 200.00 | -16.0 | n    |
| OCDF                    | 56196200  | 0.89 y | 38:31 | 1.41 | 100.00 | 2.9   | n    |
| OCDD                    | 47658100  | 0.88 y | 38:23 | 1.20 | 100.00 | -0.3  | n    |

| Data file | Smp | Work Order | Sample ID              | FV-uL | Method/Matrix | Box | Size    | U   |
|-----------|-----|------------|------------------------|-------|---------------|-----|---------|-----|
| 14OC104D5 | 1   | CP1014     | DB-5 CPSM 3732-09      |       |               |     | 1.00000 |     |
| 14OC104D5 | 2   | ST1014     | CS3 10DXN426           |       |               |     | 1.00000 |     |
| 14OC104D5 | 3   | SB1014     | Solvent Blank C-14     |       |               |     | 1.00000 |     |
| 14OC104D5 | 4   | L7L47-1-AC | G0I280550-1            | 20    | 8290/SOLID    | 73  | 2.01000 | g   |
| 14OC104D5 | 5   | L7L49-1-AC | G0I280550-2            | 20    | 8290/SOLID    |     | 1.93000 | g   |
| 14OC104D5 | 6   | L7L5A-1-AC | G0I280550-3            | 20    | 8290/SOLID    |     | 1.98000 | g   |
| 14OC104D5 | 7   | L7L5C-1-AC | G0I280550-4            | 20    | 8290/SOLID    |     | 2.01000 | g   |
| 14OC104D5 | 8   | L7L5E-1-AC | G0I280550-5            | 20    | 8290/SOLID    |     | 1.94000 | g   |
| 14OC104D5 | 9   | L7L5F-1-AC | G0I280550-6            | 20    | 8290/SOLID    |     | 2.03000 | g   |
| 14OC104D5 | 10  | L7L5G-1-AC | G0I280550-7            | 20    | 8290/SOLID    |     | 1.90000 | g   |
| 14OC104D5 | 11  | L7L5H-1-AC | G0I280550-8            | 20    | 8290/SOLID    |     | 1.94000 | g   |
| 14OC104D5 | 12  | L7L5J-1-AC | G0I280550-9            | 20    | 8290/SOLID    |     | 1.92000 | g   |
| 14OC104D5 | 13  | L7L5K-1-AC | G0I280550-10           | 20    | 8290/SOLID    |     | 2.14000 | g   |
| 14OC104D5 | 14  | SB1014A    | Solvent Blank C-14     |       |               |     | 1.00000 |     |
| 14OC104D5 | 15  | ST1014A    | CS3 10DXN426           |       |               |     | 1.00000 |     |
| 14OC104D5 | 16  | ST1014B    | CS3 10DXN461           |       |               |     | 1.00000 |     |
| 14OC104D5 | 17  | CP1014A    | DB-5 CPSM 3732-09      |       |               |     | 1.00000 |     |
| 14OC104D5 | 18  | SB1014A    | Solvent Blank C-14     |       |               |     | 1.00000 |     |
| 14OC104D5 | 19  | L7L5L-1-AC | G0I280550-11           | 20    | 8290/SOLID    | 73  | 1.99000 | g   |
| 14OC104D5 | 20  | L7L5N-1-AC | G0I280550-12           | 20    | 8290/SOLID    |     | 1.91000 | g   |
| 14OC104D5 | 21  | L7L5P-1-AC | G0I280550-13           | 20    | 8290/SOLID    |     | 1.95000 | g   |
| 14OC104D5 | 22  | L7L5Q-1-AC | G0I280550-14           | 20    | 8290/SOLID    |     | 2.01000 | g   |
| 14OC104D5 | 23  | L7L5T-1-AC | G0I280550-15           | 20    | 8290/SOLID    |     | 1.95000 | g   |
| 14OC104D5 | 24  | L7L5V-1-AC | G0I280550-16           | 20    | 8290/SOLID    |     | 1.96000 | g   |
| 14OC104D5 | 25  | L7L5W-1-AC | G0I280550-17           | 20    | 8290/SOLID    |     | 1.97000 | g   |
| 14OC104D5 | 26  | L7L5X-1-AC | G0I280550-18           | 20    | 8290/SOLID    |     | 1.96000 | g   |
| 14OC104D5 | 27  | L7L50-1-AC | G0I280550-19           | 20    | 8290/SOLID    |     | 1.95000 | g   |
| 14OC104D5 | 28  | L7L50-1-AD | G0I280550-19MS         | 20    | 8290/SOLID    |     | 1.98000 | g   |
| 14OC104D5 | 29  | L7L50-1-AE | G0I280550-19MSD        | 20    | 8290/SOLID    |     | 1.94000 | g   |
| 14OC104D5 | 30  | SB1014B    | Solvent Blank C-14     |       |               |     | 1.00000 |     |
| 14OC104D5 | 31  | ST1014C    | CS3 10DXN461           |       |               |     | 1.00000 |     |
| 14OC104D5 | 32  | CP1014B    | DB-5 CPSM 3732-09      |       |               |     | 1.00000 |     |
| 14OC104D5 | 33  | L7CJR-1-AA | G0I220000-350 (448MB)  | 20    | TO9/AIR       | 59  | 0.66667 | SAM |
| 14OC104D5 | 34  | L7CJR-1-AC | G0I220000-350 (448LCS) | 20    | TO9/AIR       |     | 0.66667 | SAM |
| 14OC104D5 | 35  | L78WG-1-AA | G0J090500-7            | 20    | TO9/AIR       | 79  | 0.50000 | SAM |
| 14OC104D5 | 36  | L78WH-1-AA | G0J090500-8            | 20    | TO9/AIR       |     | 0.50000 | SAM |
| 14OC104D5 | 37  | L7VXN-2-AA | G0J010574-1RX          | 20    | 8290/WASTE    | 80  | 0.10200 | g   |
| 14OC104D5 | 38  | L7VXQ-2-AA | G0J010574-2RX          | 20    | 8290/WASTE    |     | 0.10400 | g   |
| 14OC104D5 | 39  | L7VXR-2-AA | G0J010574-3RX          | 20    | 8290/WASTE    |     | 0.10100 | g   |
| 14OC104D5 | 40  | L7VXT-2-AA | G0J010574-4RX          | 20    | 8290/WASTE    |     | 0.09900 | g   |
| 14OC104D5 | 41  | L7VXV-2-AA | G0J010574-5RX          | 20    | 8290/WASTE    |     | 0.10300 | g   |
| 14OC104D5 | 42  | L7VXW-2-AA | G0J010574-6RX          | 20    | 8290/WASTE    |     | 0.10200 | g   |
| 14OC104D5 | 43  | L79L2-1-AC | G0J090500-7LCS         | 20    | TO9/AIR       | 79  | 0.50000 | SAM |
| 14OC104D5 | 44  | L79L2-1-AD | G0J090500-7DCS         | 20    | TO9/AIR       |     | 0.50000 | SAM |
| 14OC104D5 | 45  | L79L2-1-AA | G0J090500-7MB          | 20    | TO9/AIR       |     | 0.50000 | SAM |
| 14OC104D5 | 46  | ST1014D    | CS3 10DXN461           |       |               |     | 1.00000 |     |
| 14OC104D5 | 47  | CP1014C    | DB-5 CPSM 3732-09      |       |               |     | 1.00000 |     |
| 14OC104D5 | 48  | L8DET-1-AA | G0J010574-1MB          | 20    | 8290/WASTE    | 80  | 0.10000 | g   |
| 14OC104D5 | 49  | L8DET-1-AC | G0J010574-1LCS         | 20    | 8290/WASTE    |     | 0.10000 | g   |
| 14OC104D5 | 50  | L7VXX-2-AA | G0J010574-7RX          | 20    | 8290/WASTE    |     | 0.10100 | g   |
| 14OC104D5 | 51  | L7VX0-2-AA | G0J010574-8RX          | 20    | 8290/WASTE    |     | 0.10100 | g   |
| 14OC104D5 | 52  | L7VX1-2-AA | G0J010574-9RX          | 20    | 8290/WASTE    |     | 0.10300 | g   |
| 14OC104D5 | 53  | L7VX3-2-AA | G0J010574-10RX         | 20    | 8290/WASTE    |     | 0.10100 | g   |

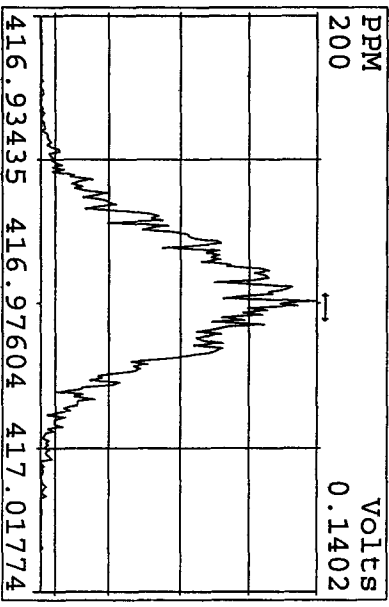
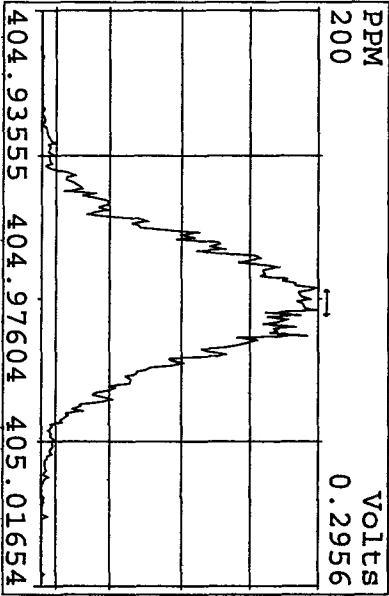
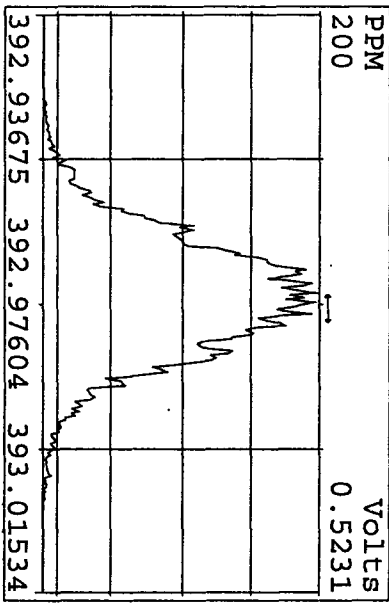
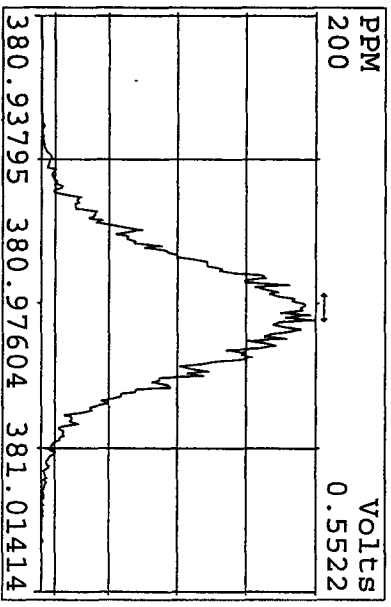
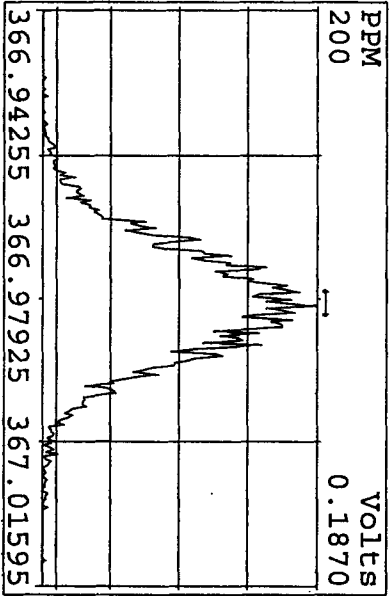
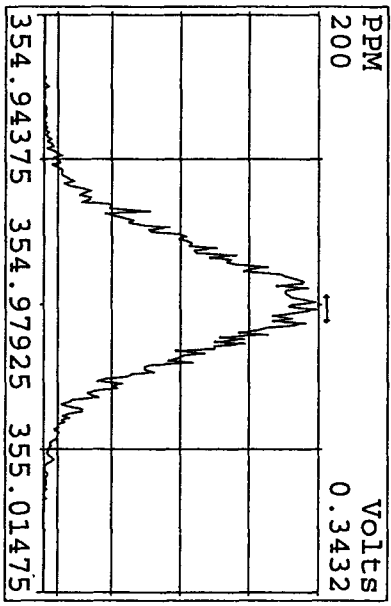
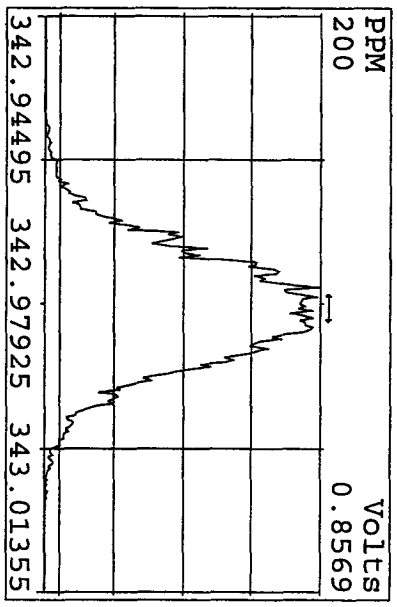
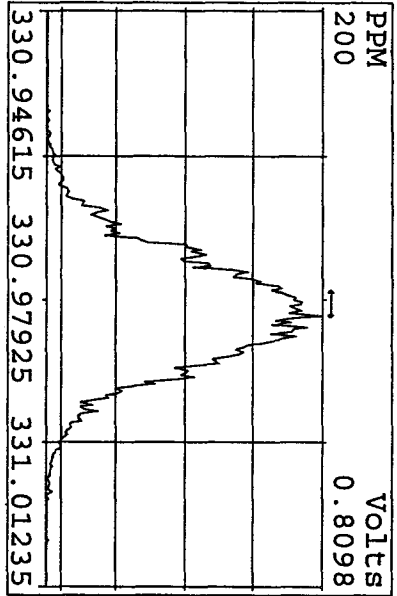
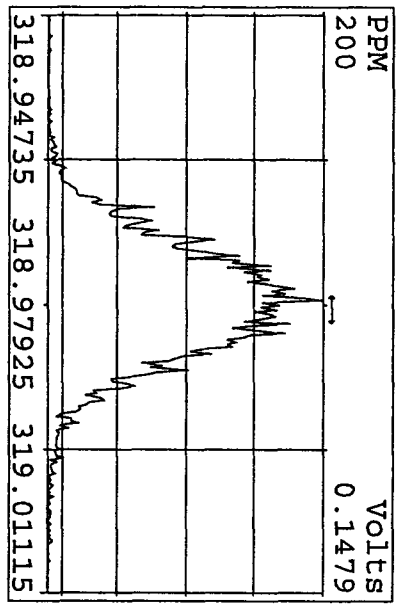
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|-----------|----|------------|-------------------------|----|------------|----|----------|-----|
| 14OC104D5 | 54 | L7VX4-2-AA | G0J010574-11RX          | 20 | 8290/WASTE |    | 0.10700  | g   |
| 14OC104D5 | 55 | L7VX5-2-AA | G0J010574-12RX          | 20 | 8290/WASTE |    | 0.10700  | g   |
| 14OC104D5 | 56 | L7VX6-2-AA | G0J010574-13RX          | 20 | 8290/WASTE |    | 0.10300  | g   |
| 14OC104D5 | 57 | L7VX7-2-AA | G0J010574-14RX          | 20 | 8290/WASTE |    | 0.10300  | g   |
| 14OC104D5 | 58 | L7VX8-2-AA | G0J010574-15RX          | 20 | 8290/WASTE |    | 0.10100  | g   |
| 14OC104D5 | 59 | L7VX9-2-AA | G0J010574-16RX          | 20 | 8290/WASTE |    | 0.10500  | g   |
| 14OC104D5 | 60 | SB1014C    | Solvent Blank C-14      |    |            |    | 1.00000  |     |
| 14OC104D5 | 61 | ST1014E    | CS3 10DXN461            |    |            |    | 1.00000  |     |
| 14OC104D5 | 62 | ST1014F    | CS3 10DXN461            |    |            |    | 1.00000  |     |
| 14OC104D5 | 63 | CP1014D    | DB-5 CPSM 3732-09       |    |            |    | 1.00000  |     |
| 14OC104D5 | 64 | L8A5X-1-AA | G0J120000-255 (429-MB)  | 20 | TO9/AIR    | 81 | 0.50000  | sam |
| 14OC104D5 | 65 | L8AK8-1-AA | G0J120429-2             | 20 | TO9/AIR    |    | 0.50000  | sam |
| 14OC104D5 | 66 | L8ALT-1-AA | G0J120429-5             | 20 | TO9/AIR    |    | 0.50000  | sam |
| 14OC104D5 | 67 | L7A5X-1-AC | G0I220545-1             | 20 | 8290/WATER | 61 | 1.03389  | L   |
| 14OC104D5 | 68 | L7A6M-1-AC | G0I220545-2             | 20 | 8290/WATER |    | 0.98333  | L   |
| 14OC104D5 | 69 | L7A6Q-1-AC | G0I220545-3             | 20 | 8290/WATER |    | 1.02129  | L   |
| 14OC104D5 | 70 | L7A6R-1-AD | G0I220545-4             | 20 | 8290/SOLID | 63 | 10.10000 | g   |
| 14OC104D5 | 71 | L7A6X-1-AD | G0I220545-5             | 20 | 8290/SOLID | 63 | 10.02000 | g   |
| 14OC104D5 | 72 | L7A60-1-AD | G0I220545-6             | 20 | 8290/SOLID |    | 10.18000 | g   |
| 14OC104D5 | 73 | L7A62-1-AD | G0I220545-7             | 20 | 8290/SOLID |    | 10.00000 | g   |
| 14OC104D5 | 74 | L8A5X-1-AC | G0J120000-255 (429-LCS) | 20 | TO9/AIR    | 81 | 0.50000  | sam |
| 14OC104D5 | 75 | L8A5X-1-AD | G0J120000-255 (429-DCS) | 20 | TO9/AIR    |    | 0.50000  | sam |
| 14OC104D5 | 76 | ST1014G    | CS3 10DXN461            |    |            |    | 1.00000  |     |
| 14OC104D5 | 77 | ST1014H    | CS3 10DXN461            |    |            |    | 1.00000  |     |
| 14OC104D5 | 78 | CP1014E    | DB-5 CPSM 3732-09       |    |            |    | 1.00000  |     |
| 14OC104D5 | 79 |            |                         |    |            |    | 1.00000  |     |
| 14OC104D5 | 80 |            |                         |    |            |    | 1.00000  |     |
| 14OC104D5 | 81 |            |                         |    |            |    | 1.00000  |     |
| 14OC104D5 | 82 |            |                         |    |            |    | 1.00000  |     |
| 14OC104D5 | 83 |            | AS 10-14-10             |    |            |    | 1.00000  |     |

log file reviewed  
10-16-10 am

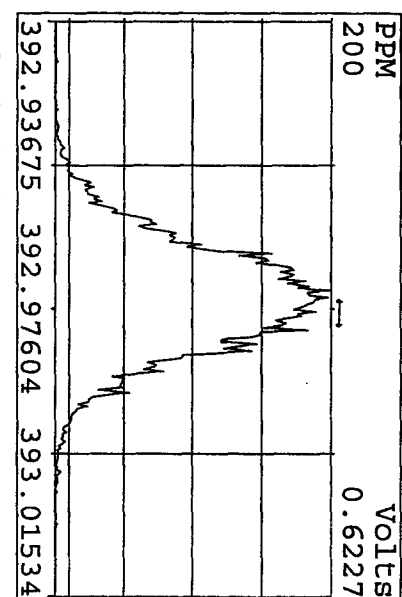
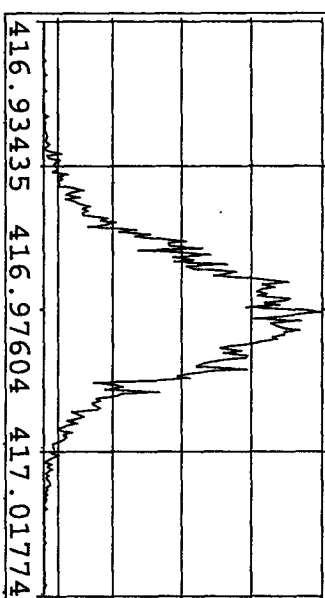
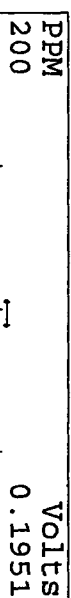
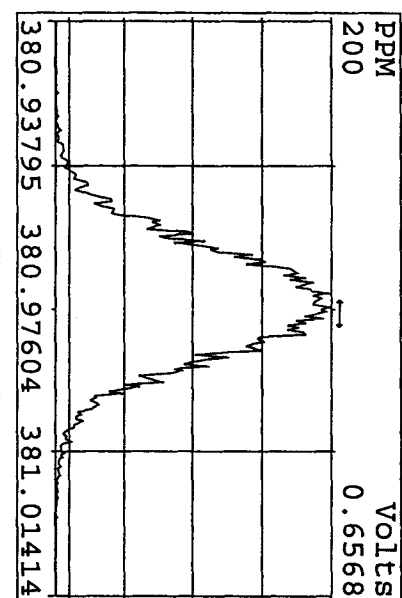
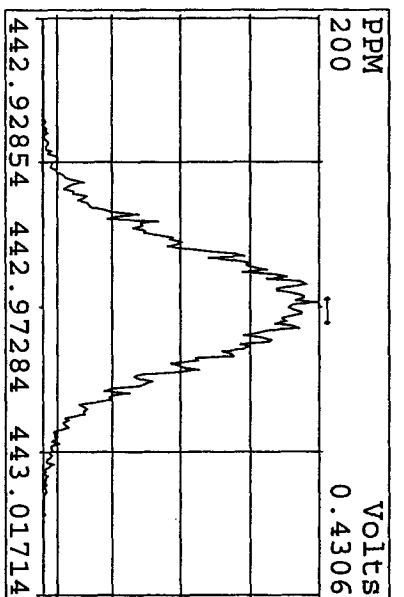
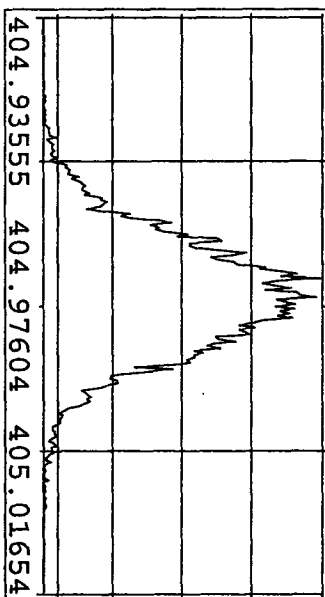
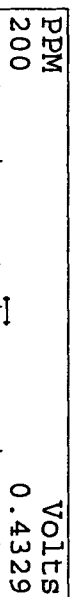
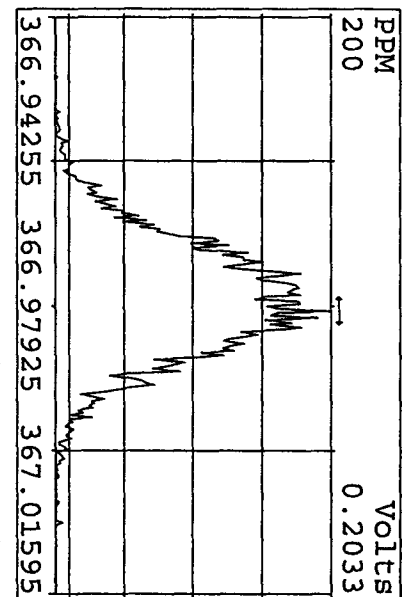
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Experiment:DIOXINRES Function:1 Reference:PFK



Peak Locate Examination: 14-OCT-2010:10:02 File: 14OC104D5  
 Experiment: DIOXINRES Function: 2 Reference: PFK

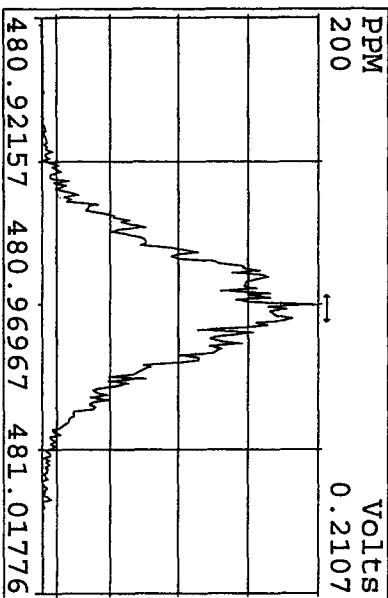
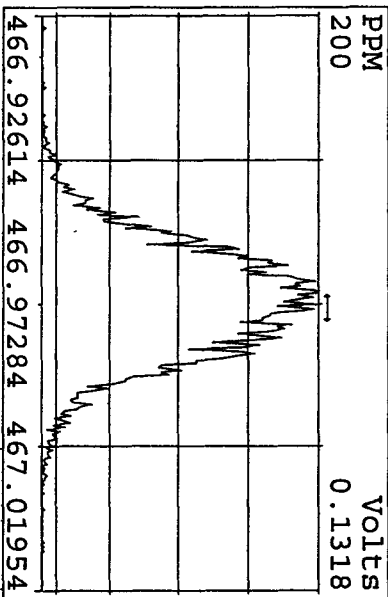
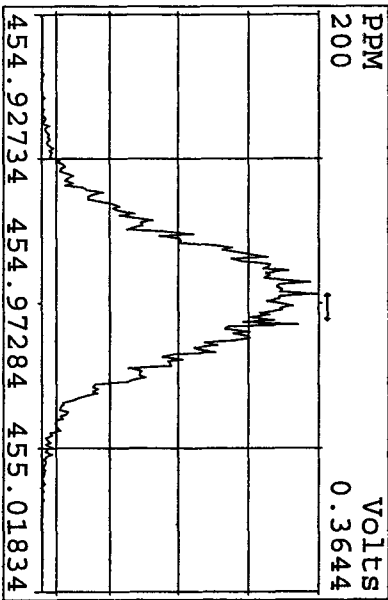
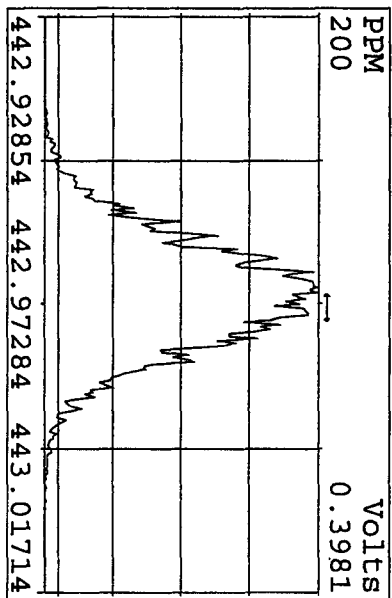
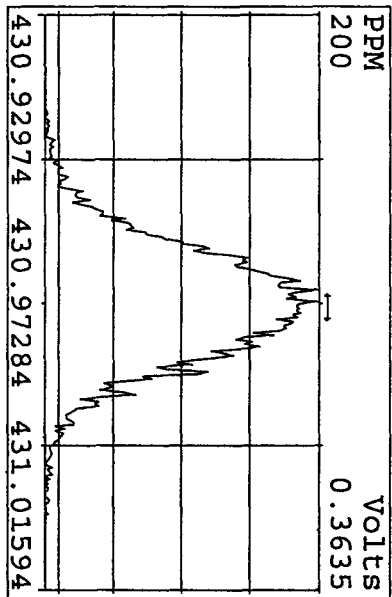
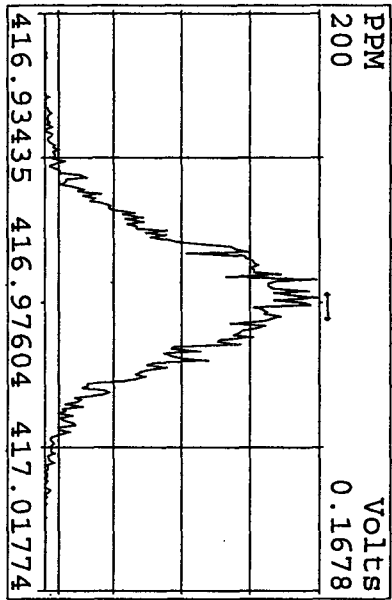
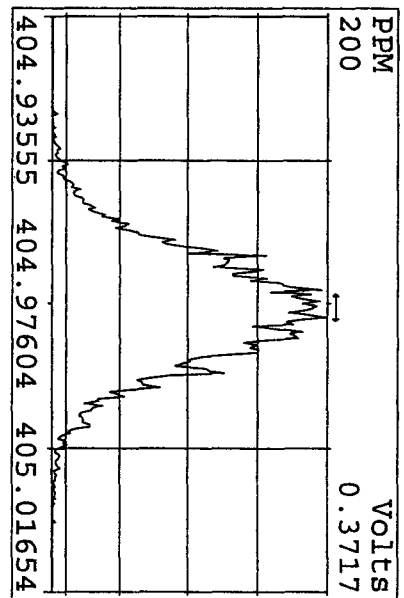
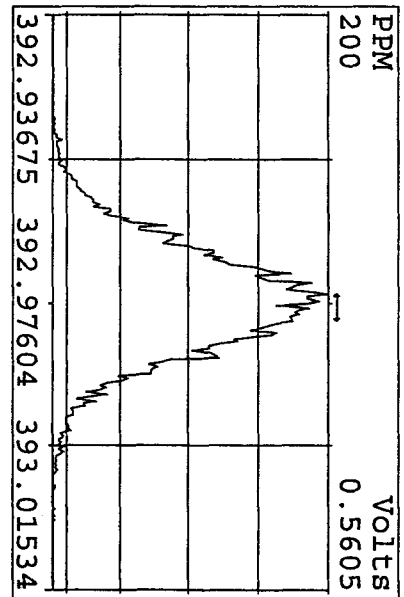
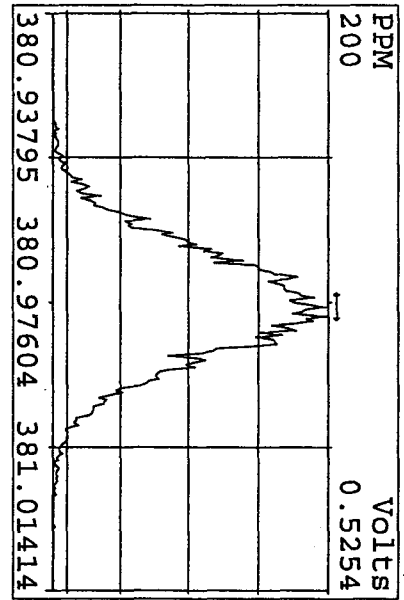


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 Experiment: DIOXINRES Function: 3 Reference: PFK

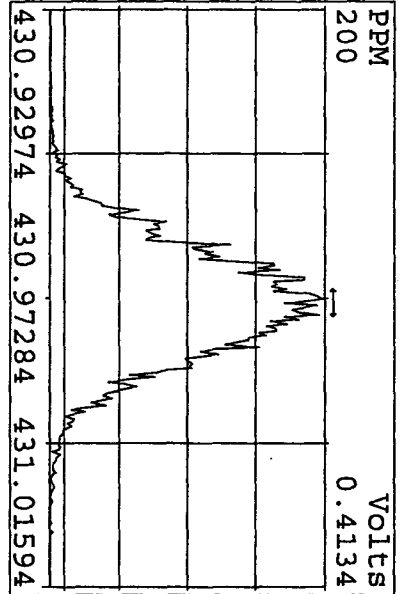




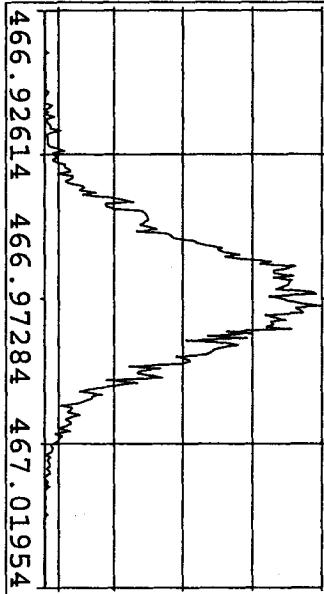
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 Experiment: DIOXINRES Function: 4 Reference: PFK



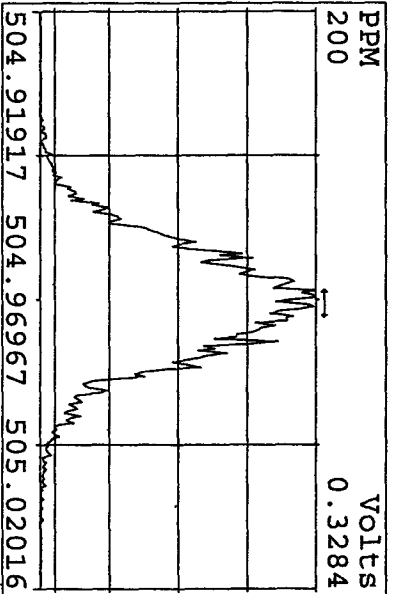
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 Experiment:DIOXINRES Function:5 Reference:PFK



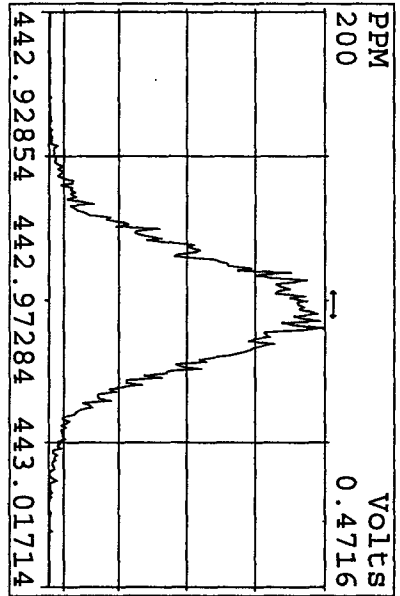
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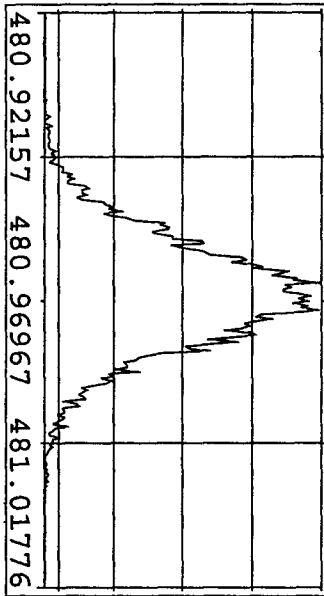
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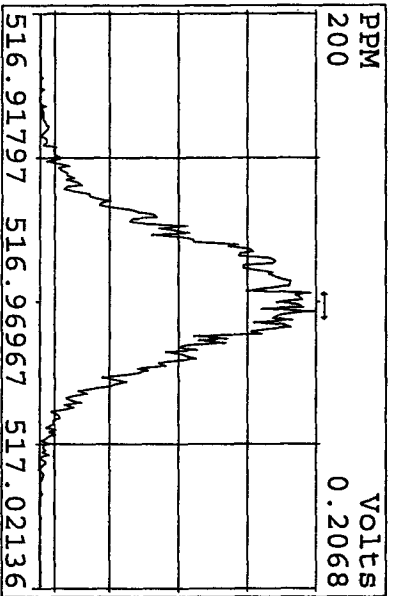
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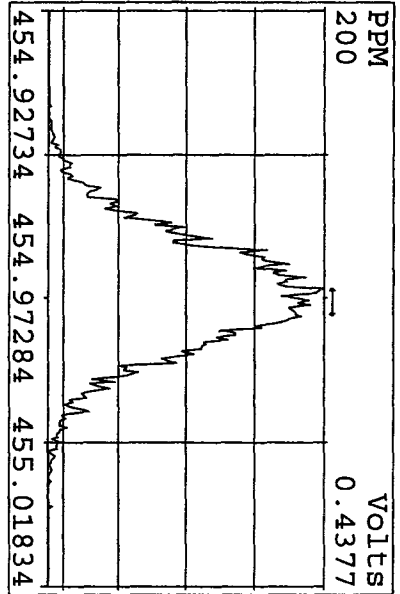
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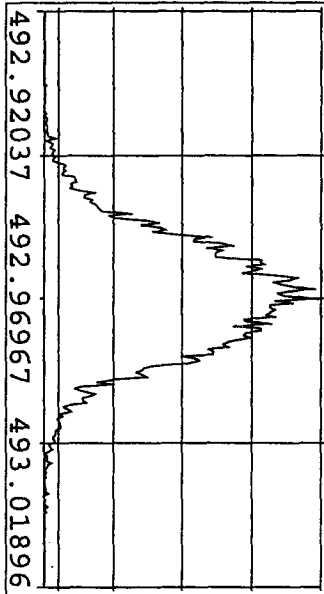
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PPM 200  
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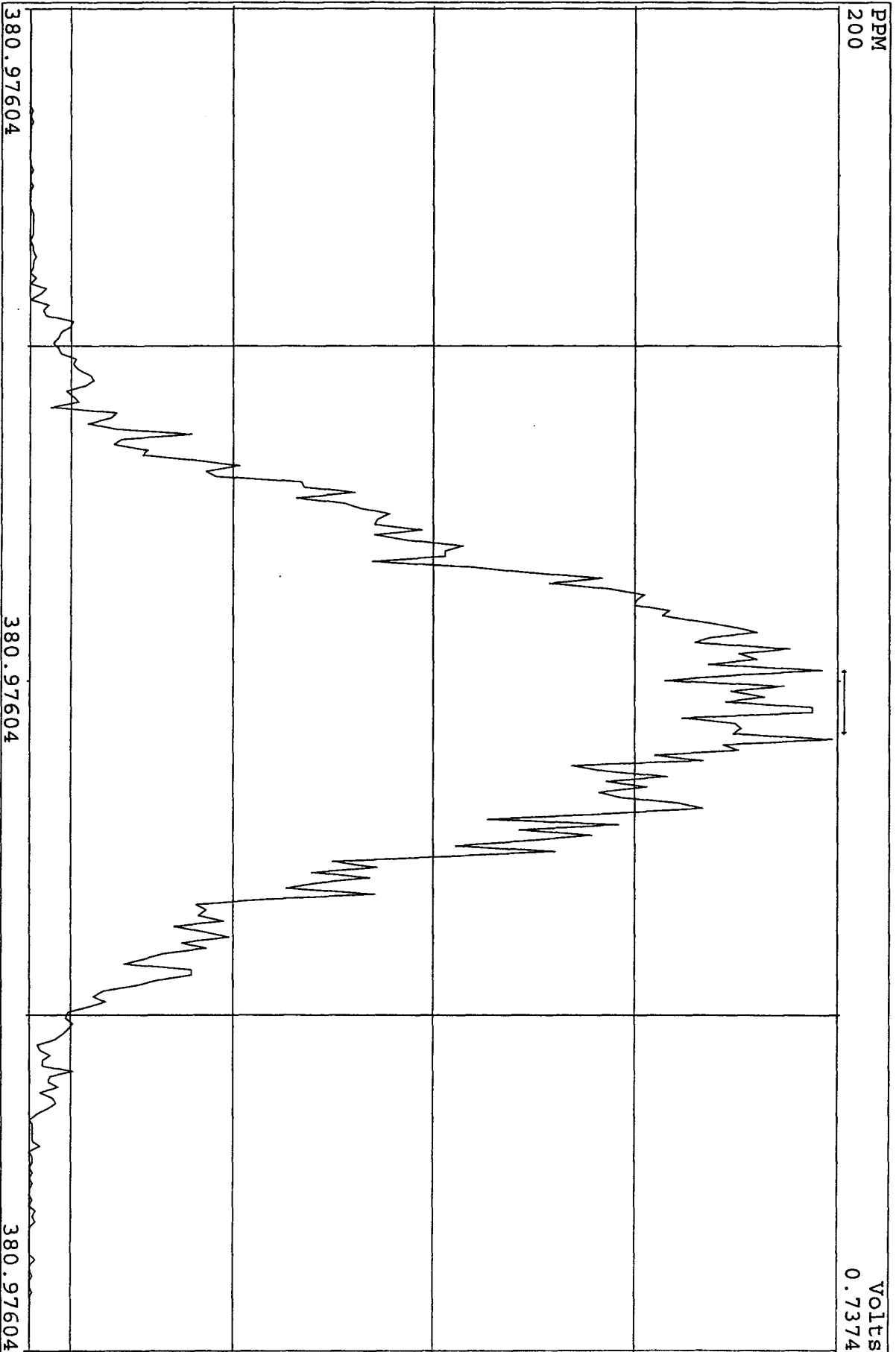


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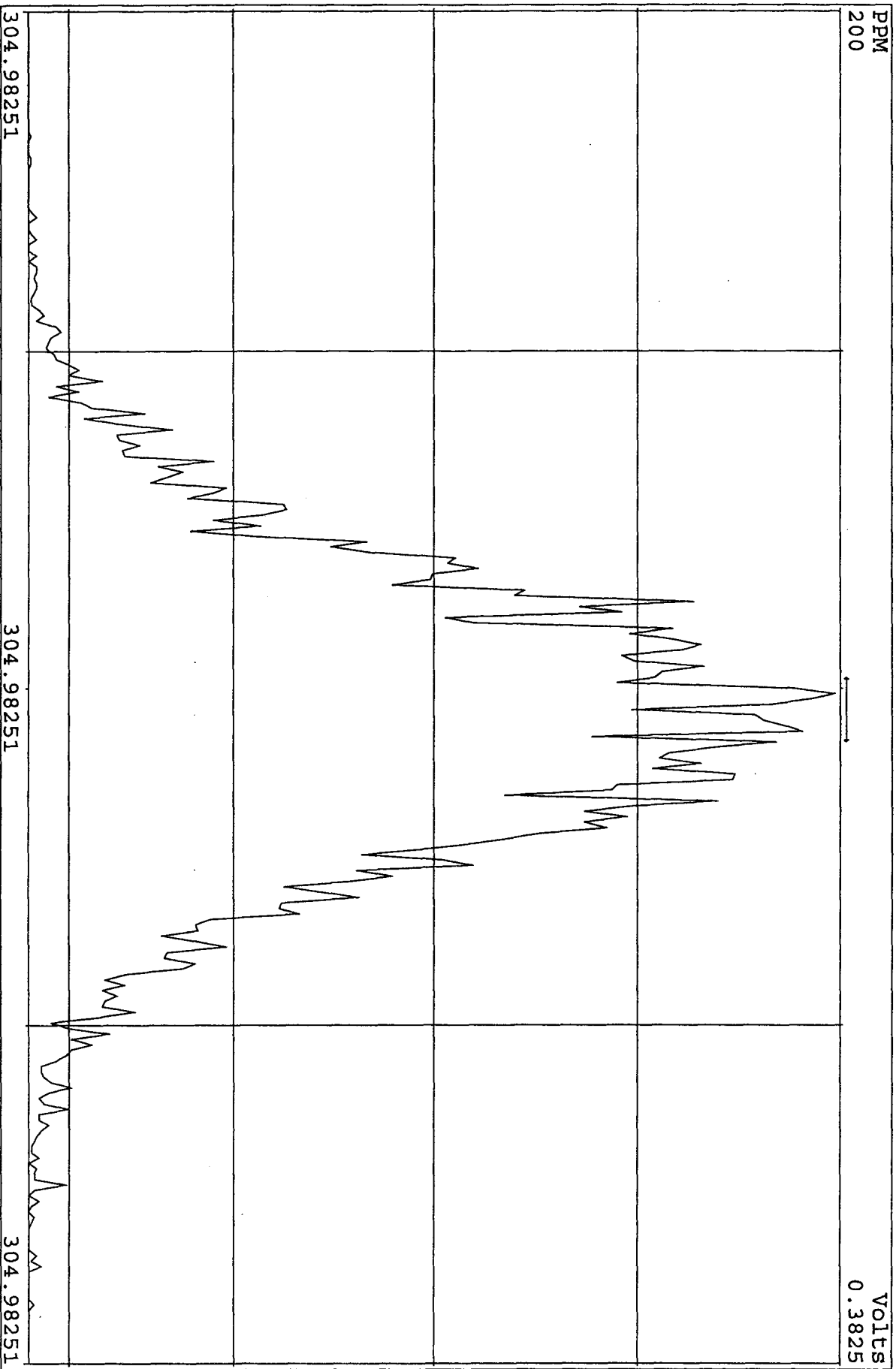


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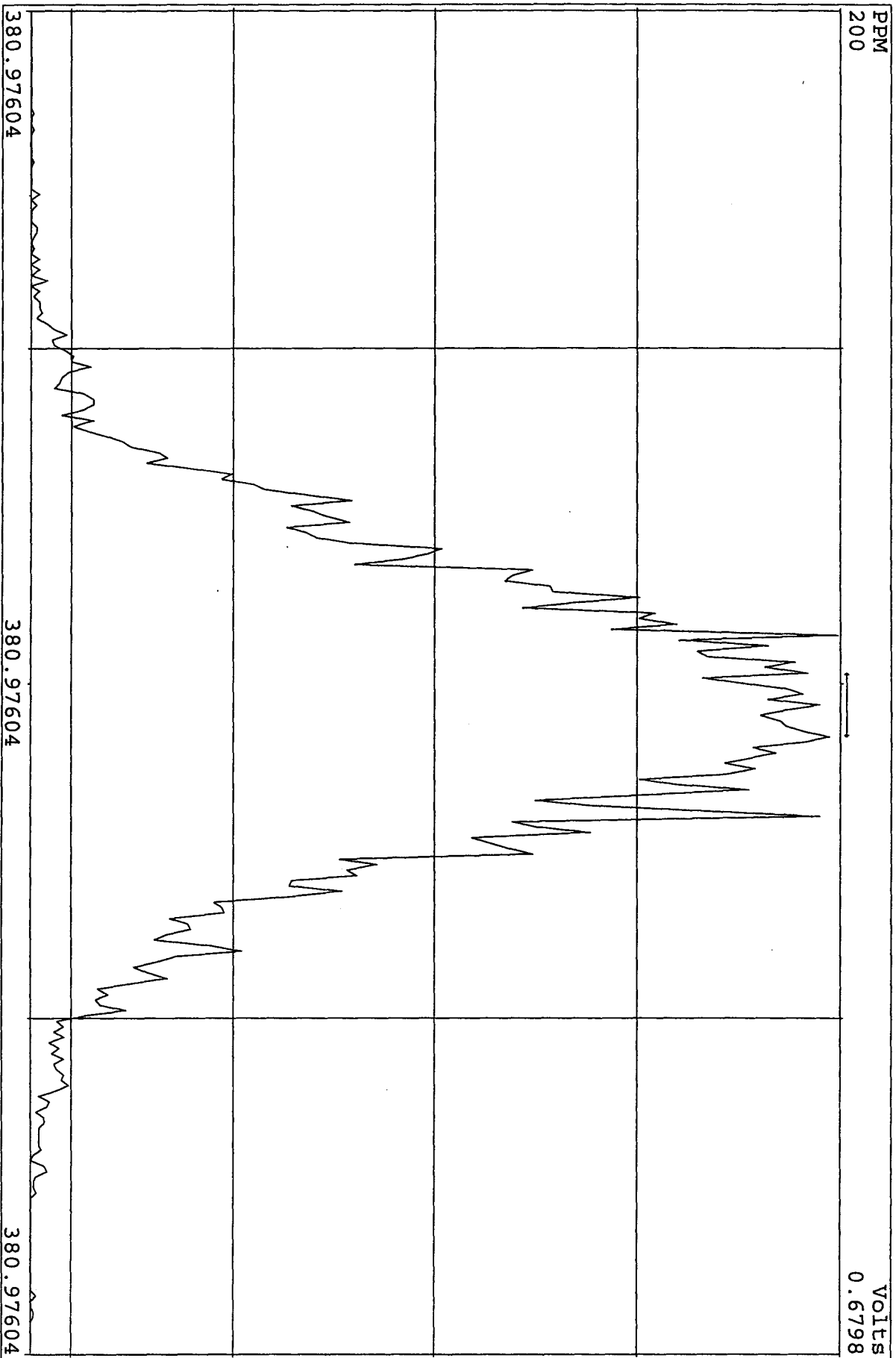
SIRLM Examination: 14-OCT-2010: 20:25 File: 140C104D5  
Experiment: DIOXINRES Function: 6



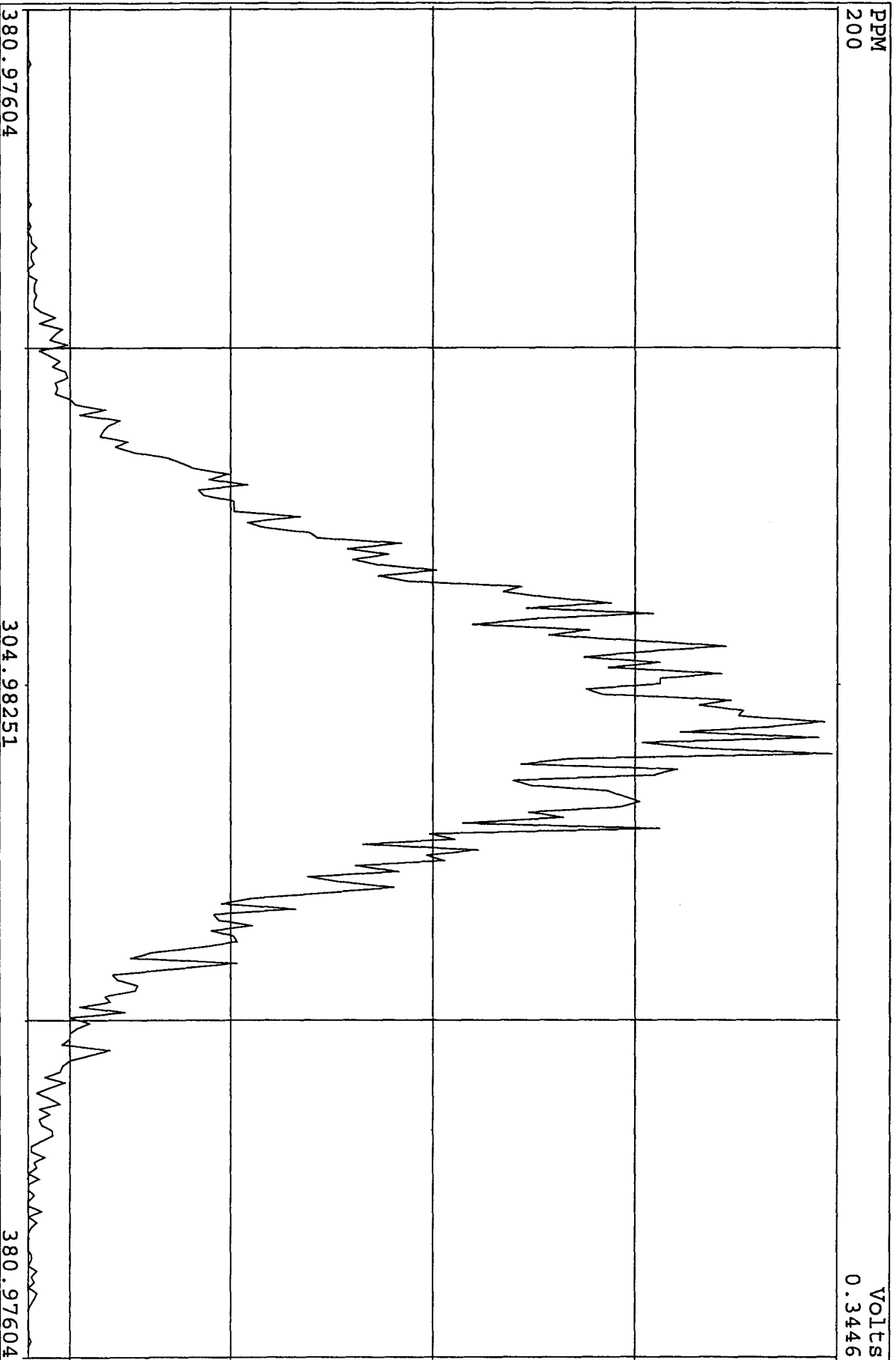
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Experiment: DIOXINRES Function: 7



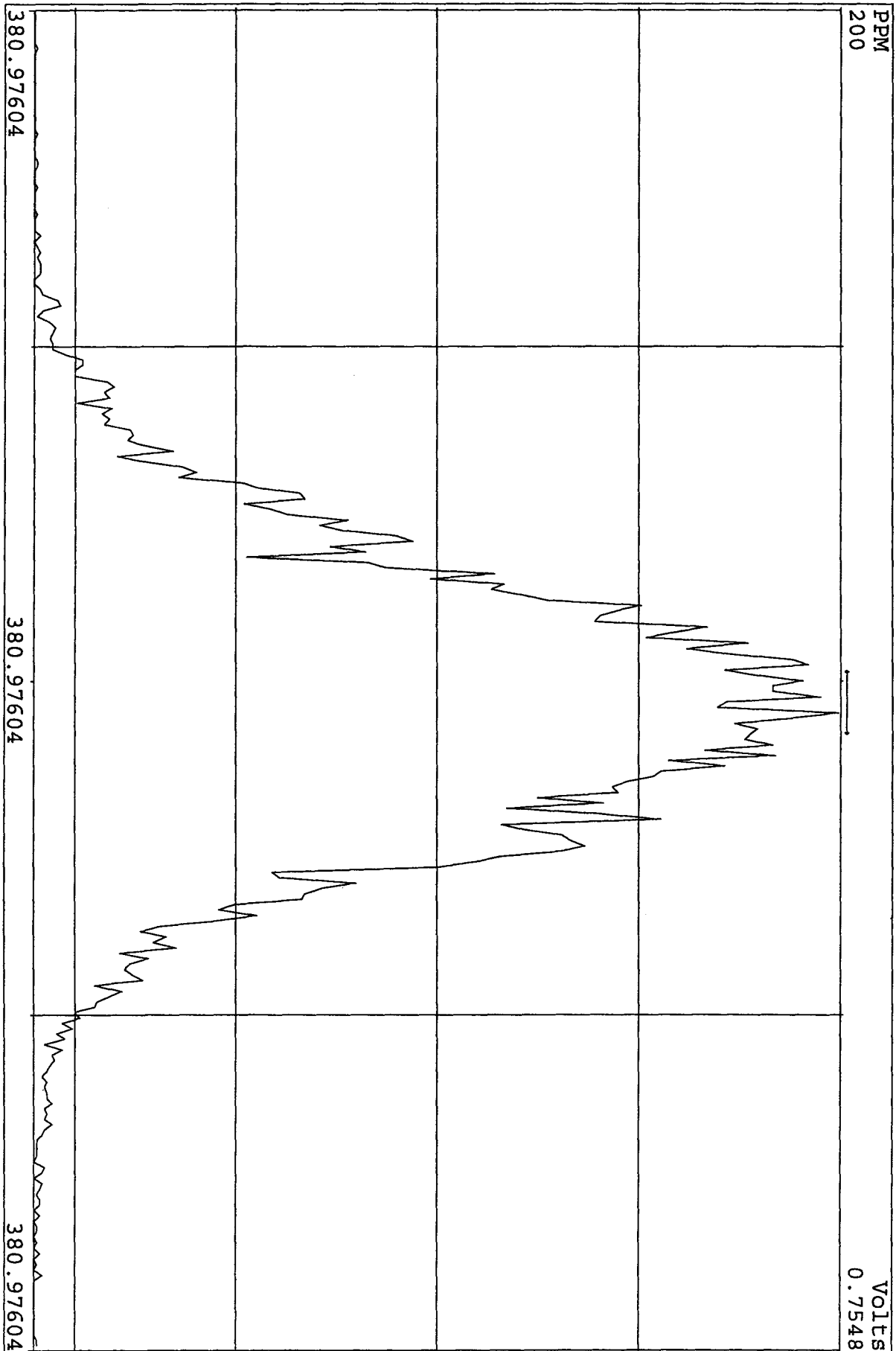
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Experiment: DIOXINRES Function: 6



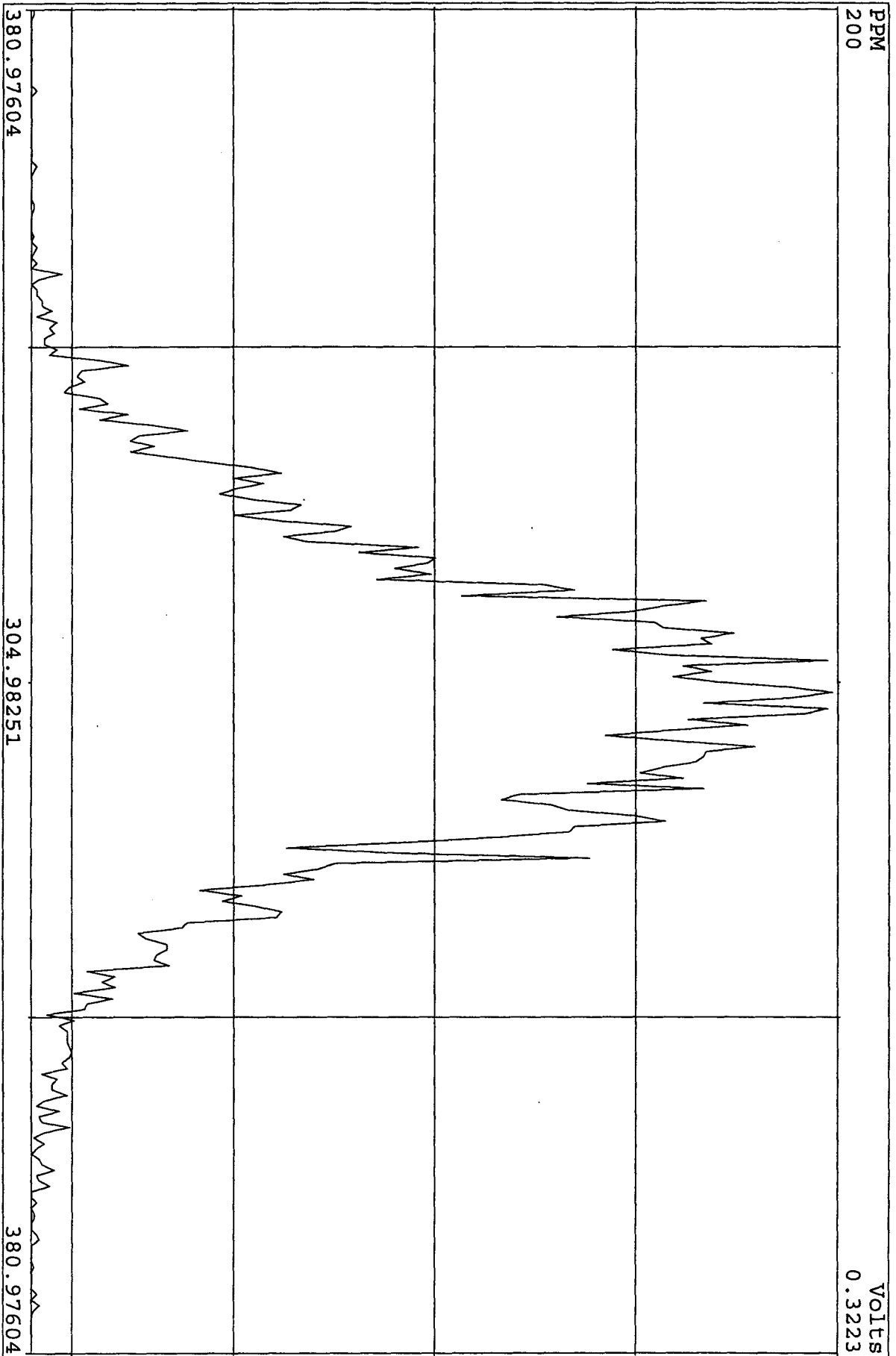
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Experiment: DIOXINRES Function: 7



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Experiment: DIOXINRES Function: 6

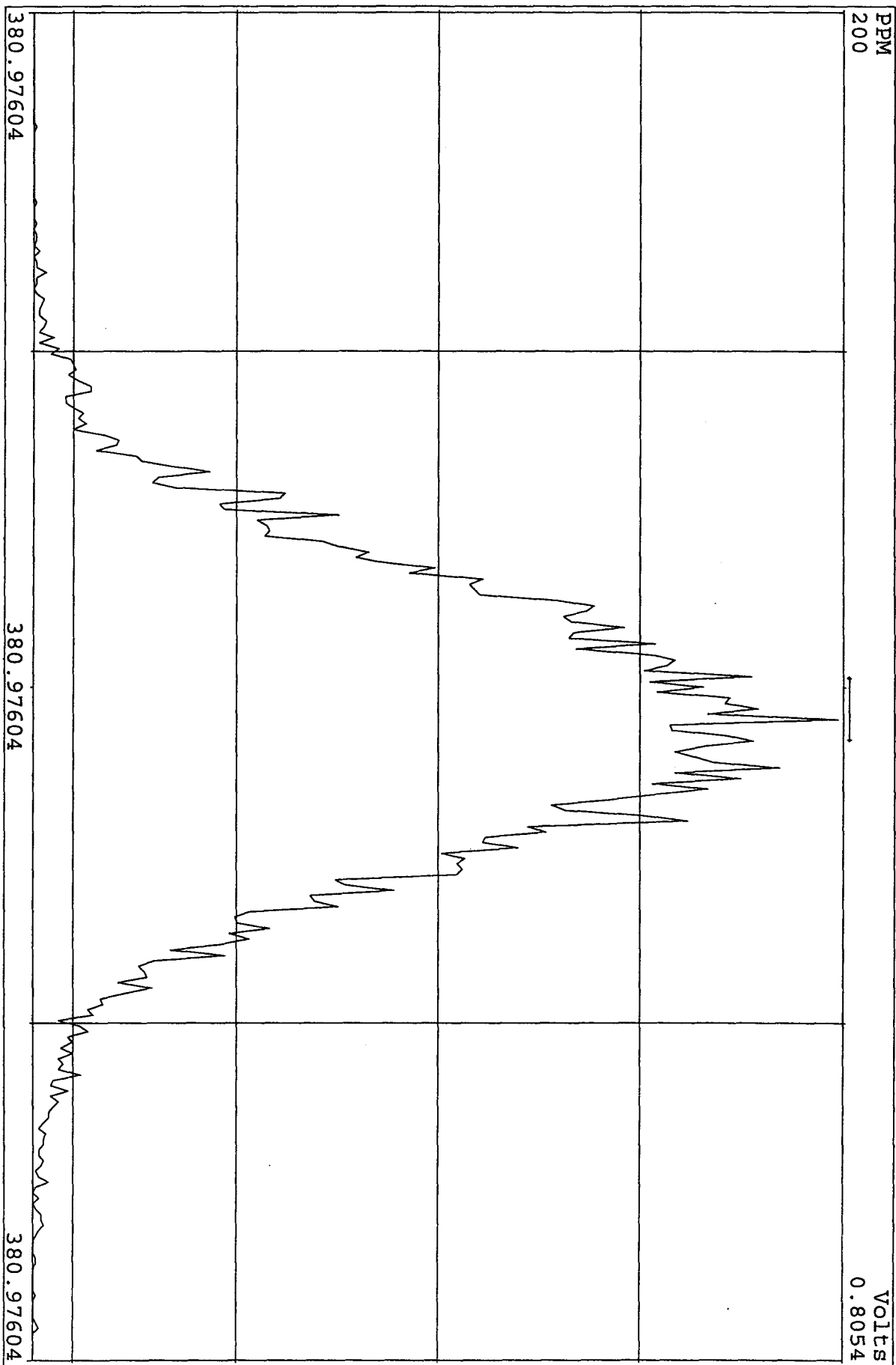


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Experiment: DIOXINRES Function: 7

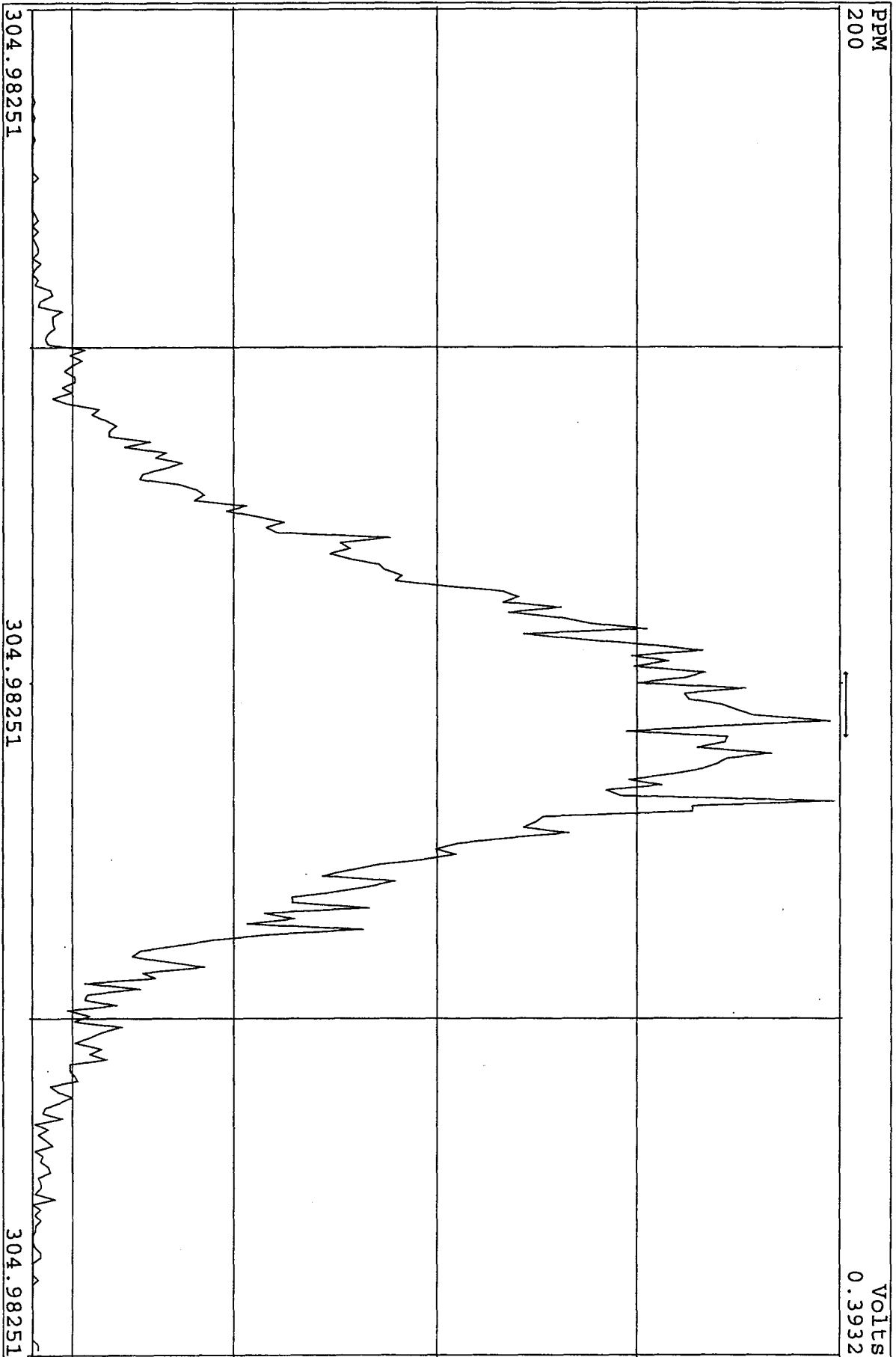




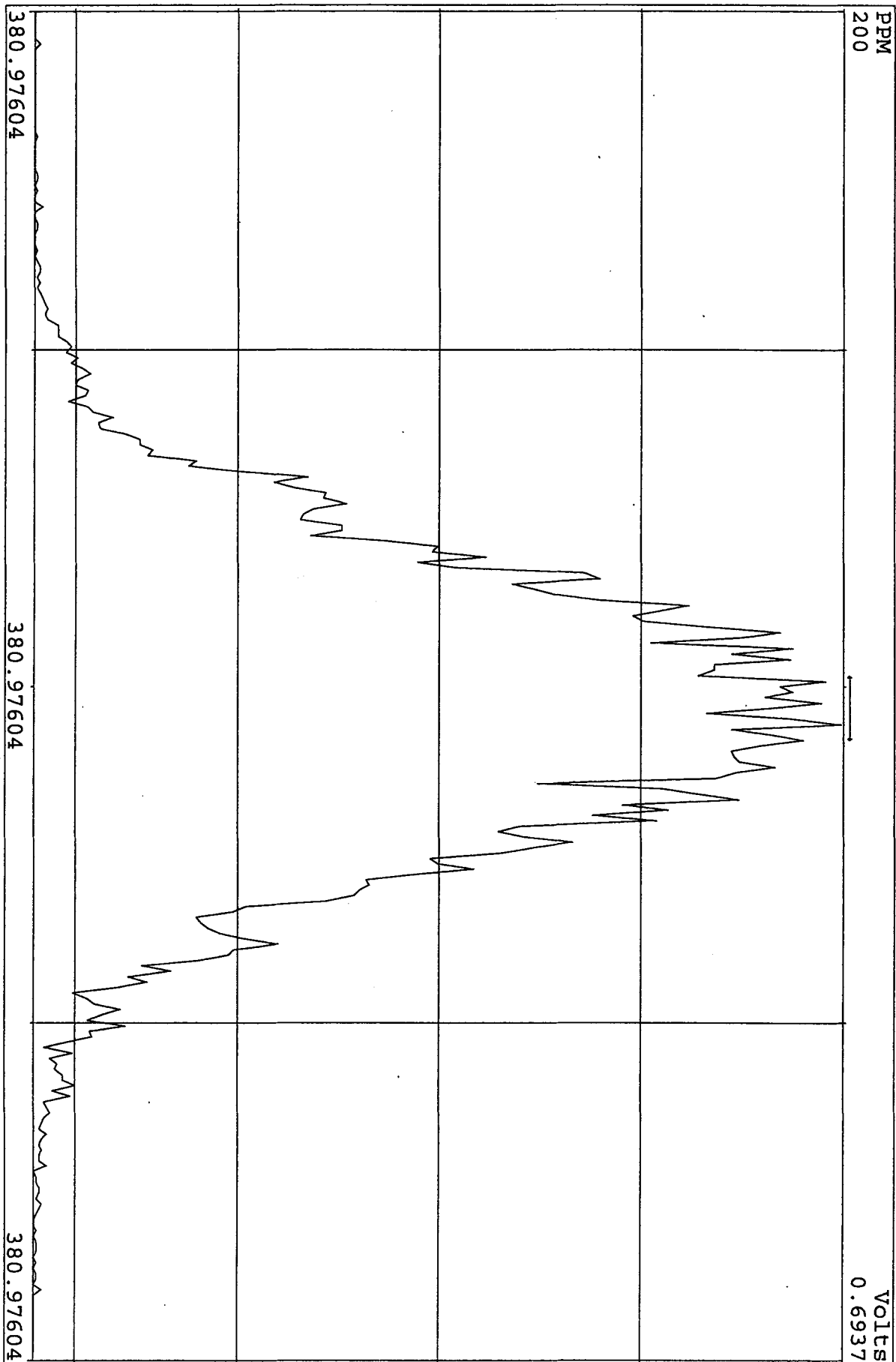
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Experiment: DIOXINRES Function: 6



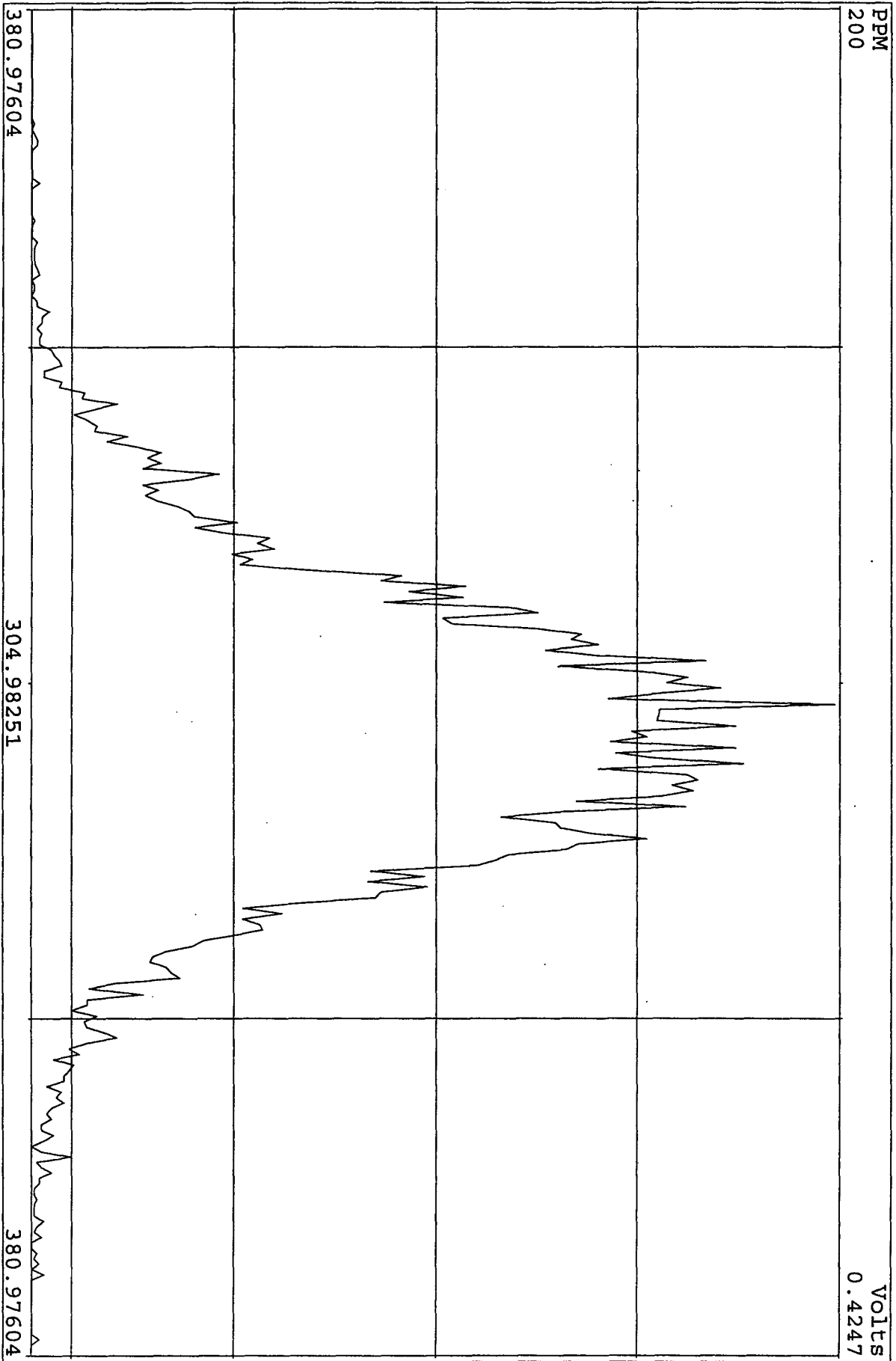
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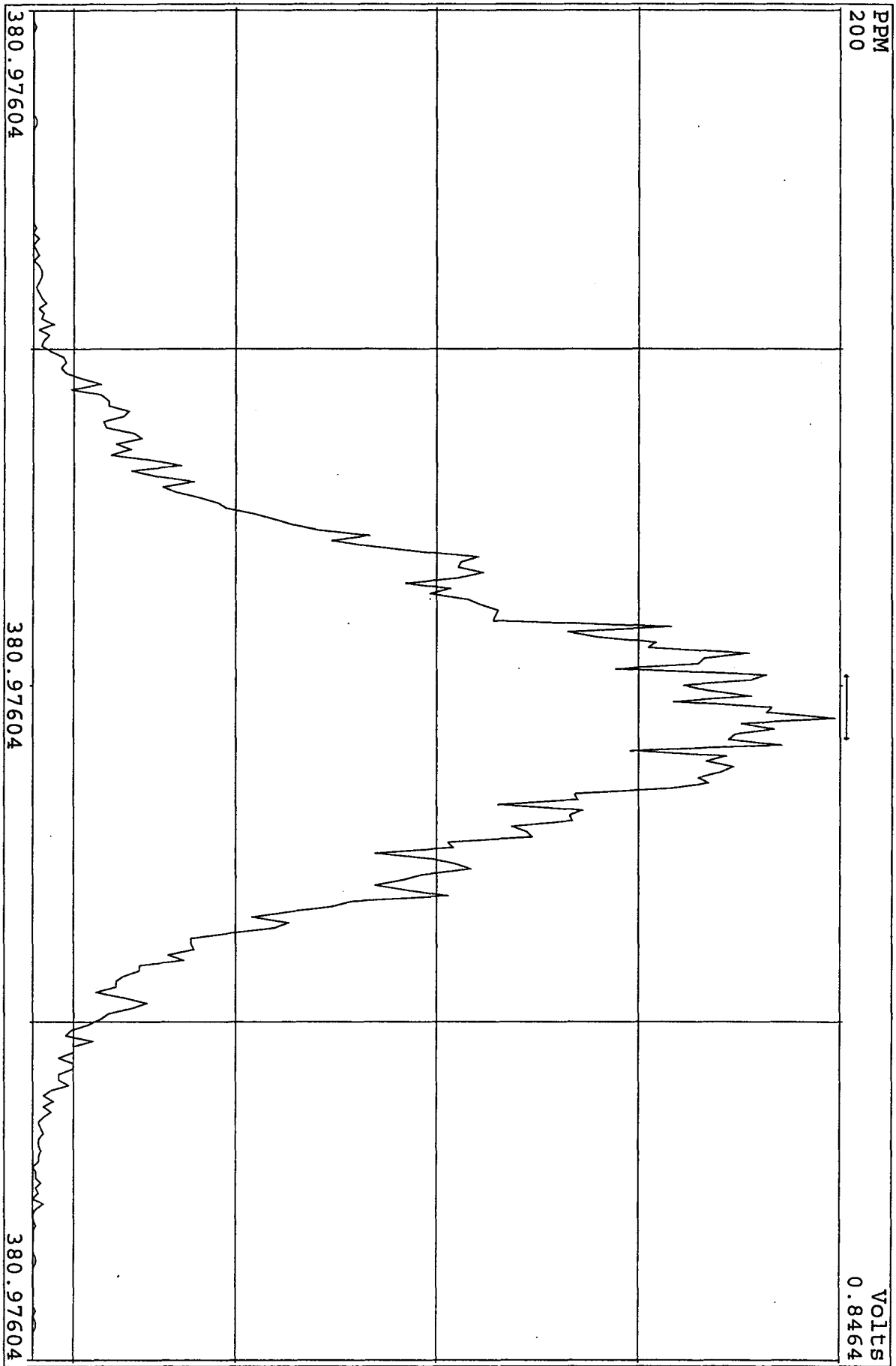
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Experiment: DIOXINRES Function: 6



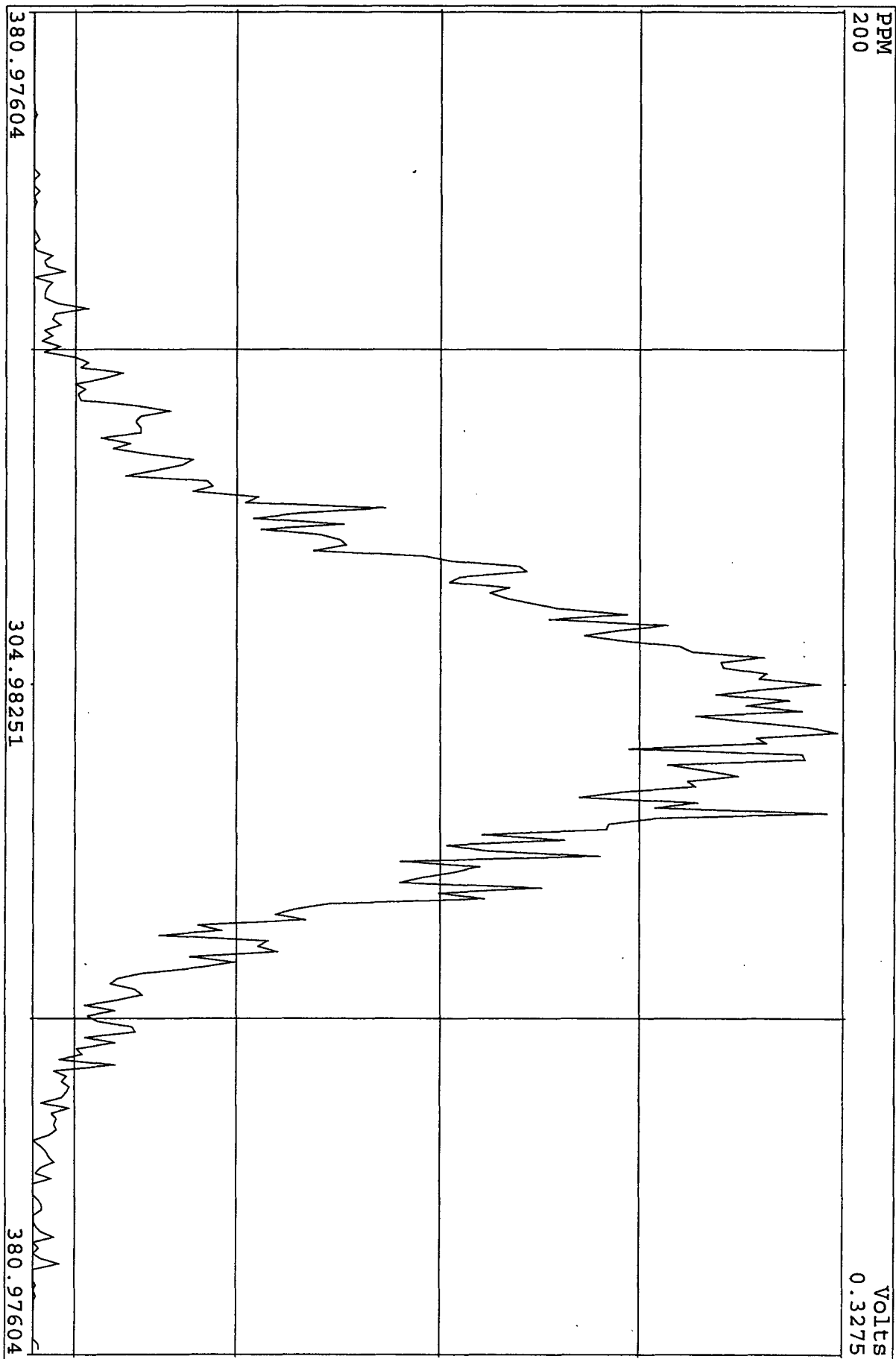
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Experiment: DIOXINRES Function: 7



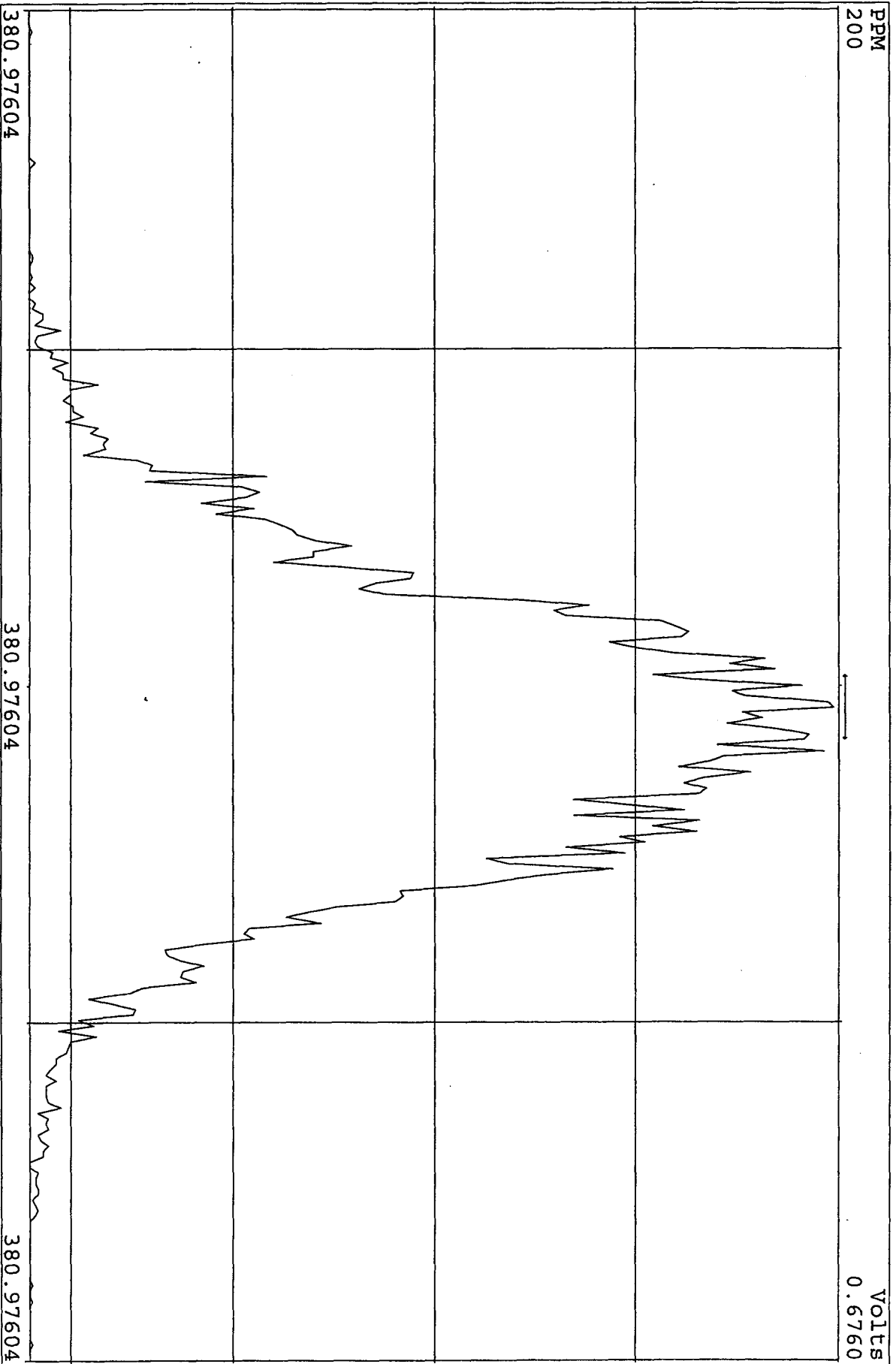
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Experiment: DIOXINRES Function: 6



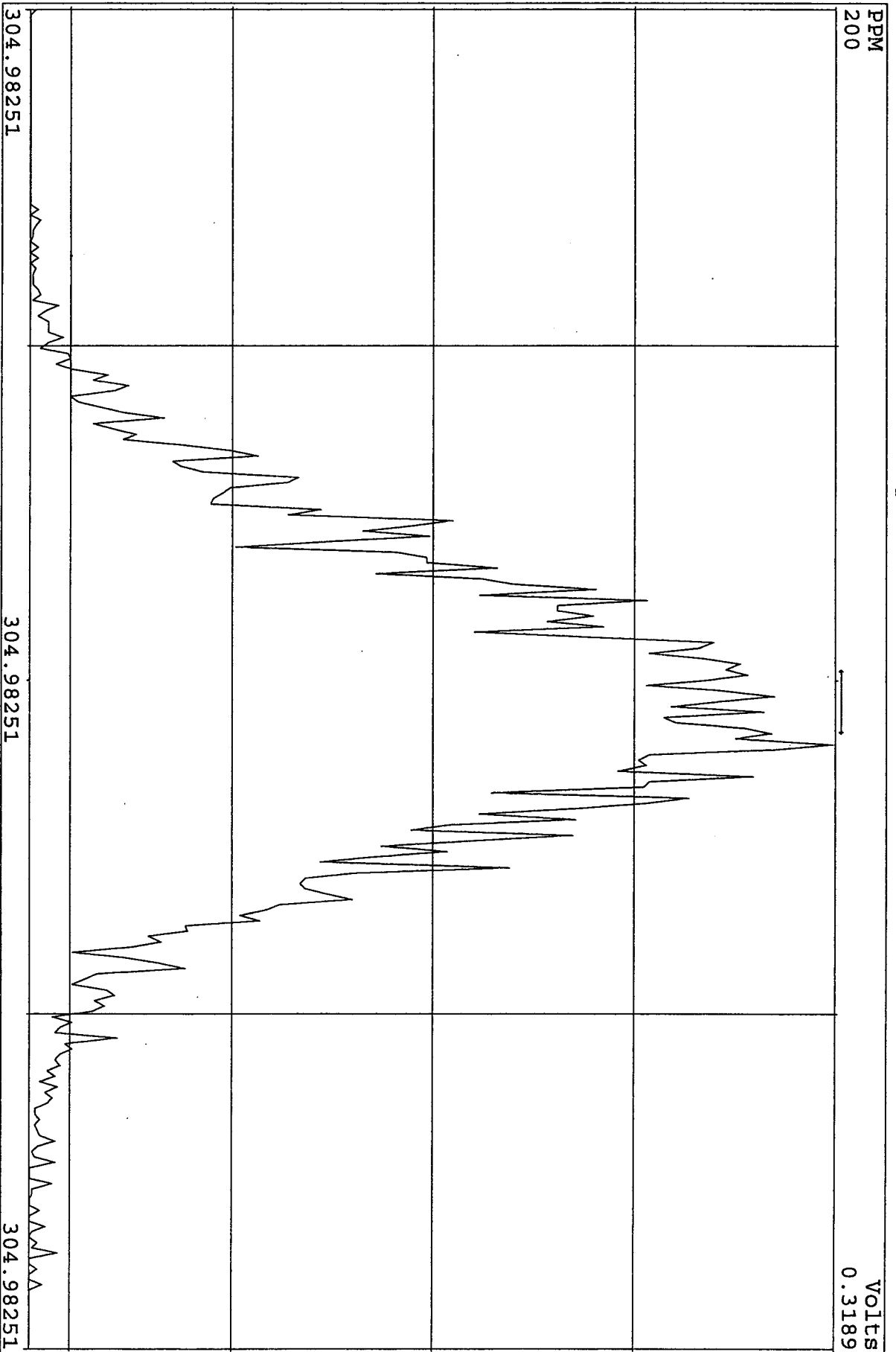
SIRLM Examination: 15-OCT-2010: 20:13 File: 14OCT104D5  
Experiment: DIOXINRES Function: 7



SIRLM Examination: 16-OCT-2010: 07:20 File: 14OC104D5  
Experiment: DIOXINRES Function: 6

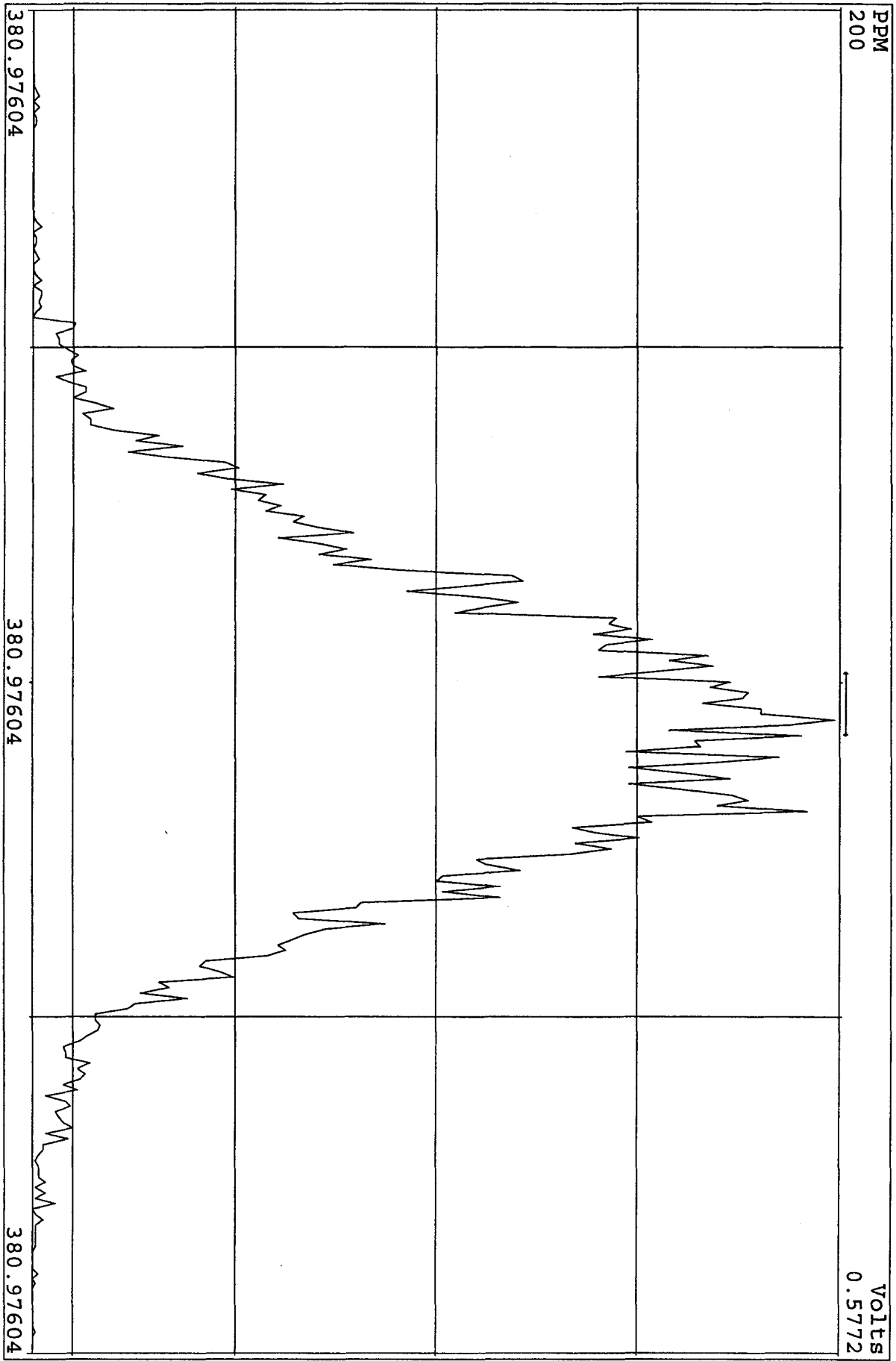


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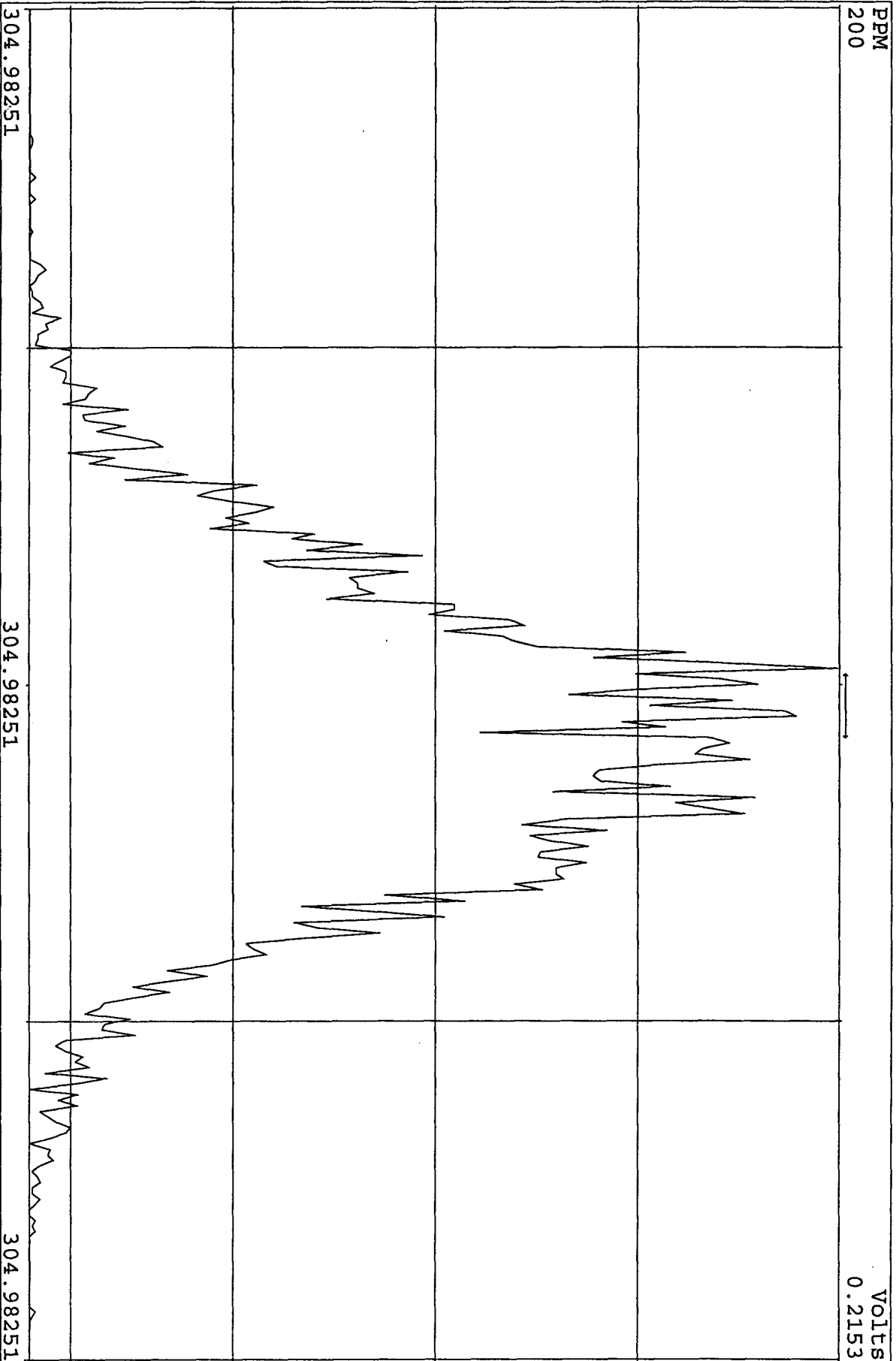




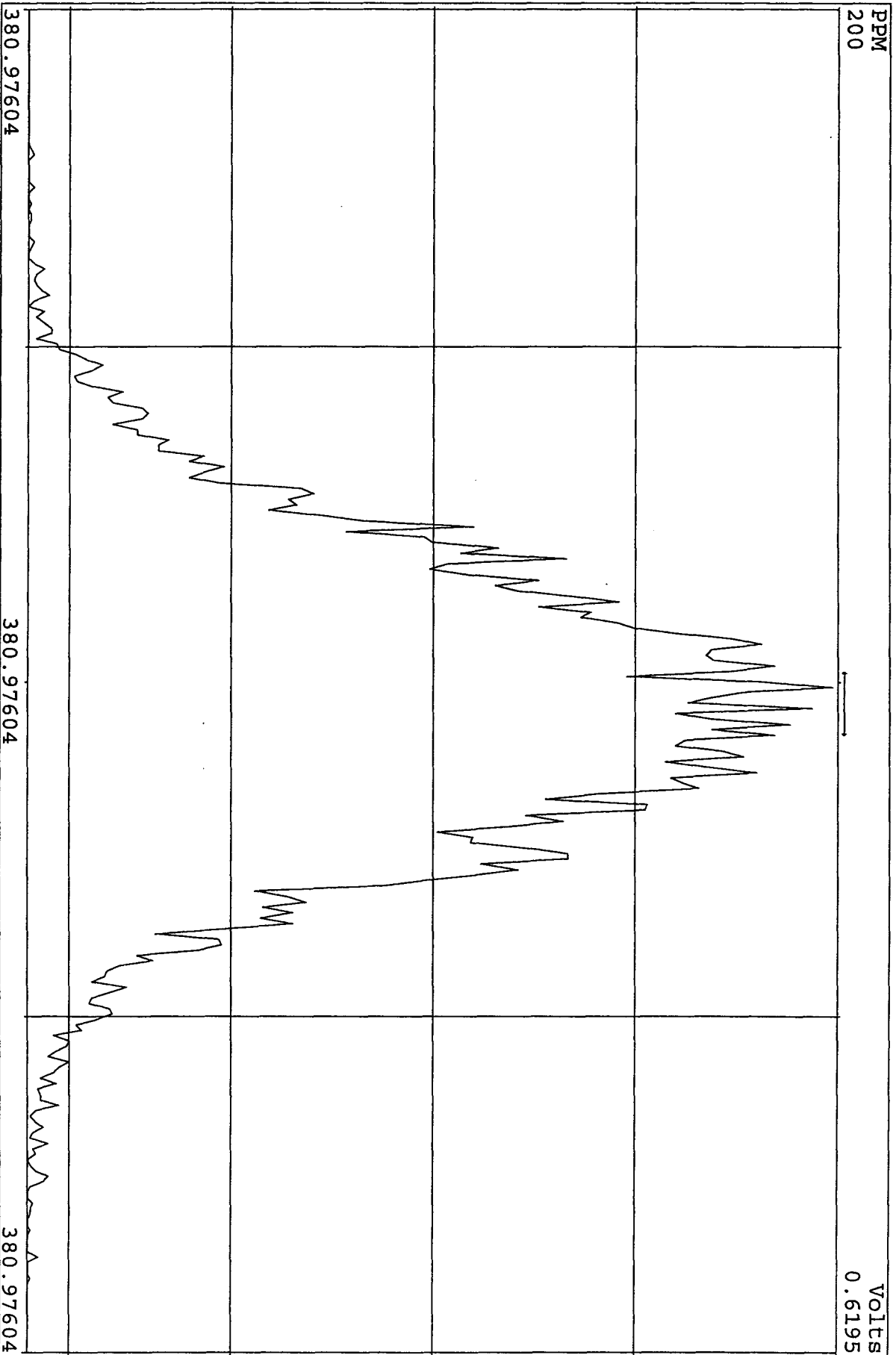
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Experiment: DIOXINRES Function: 6



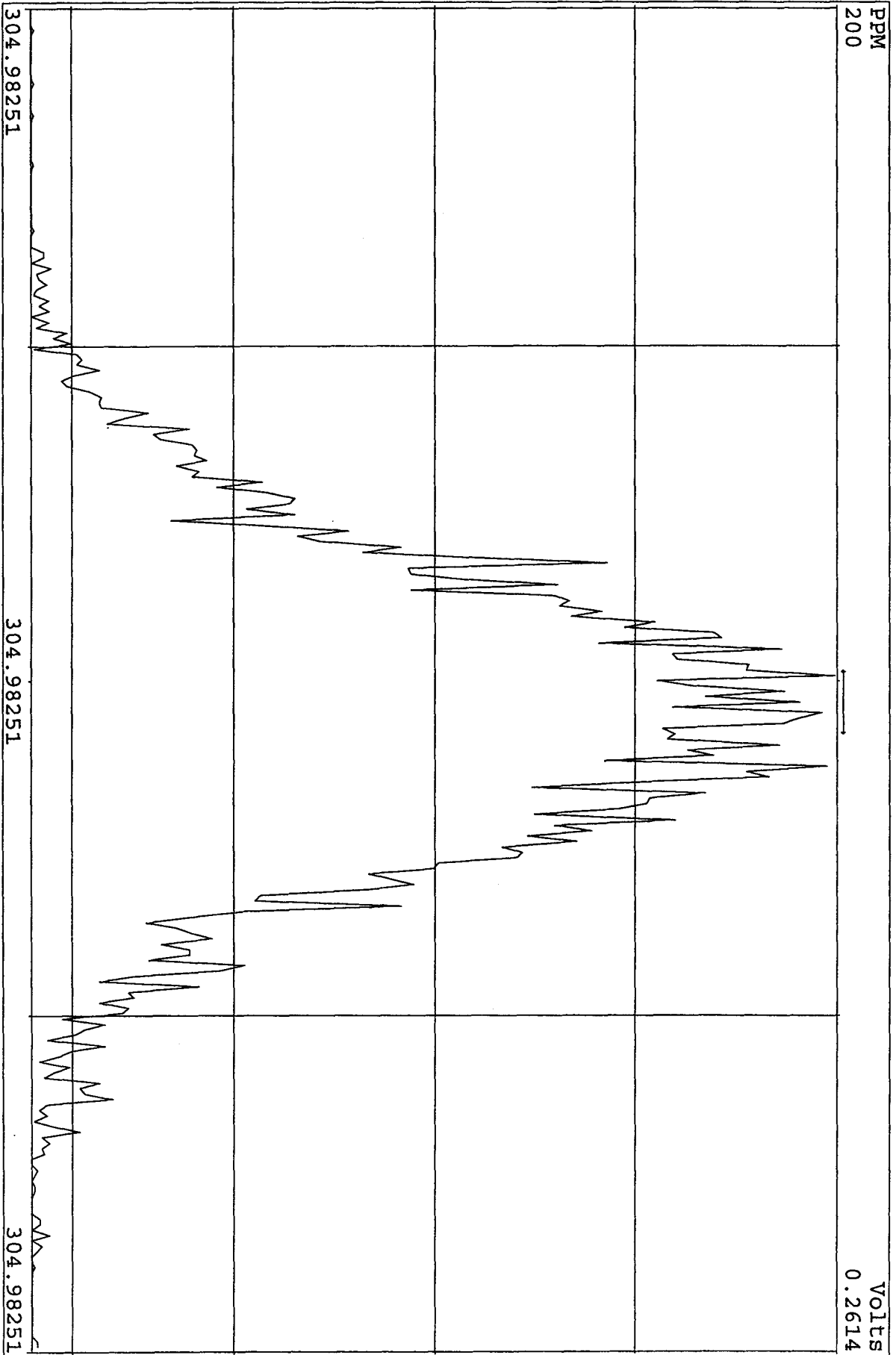
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Experiment: DIOXINRES Function: 7



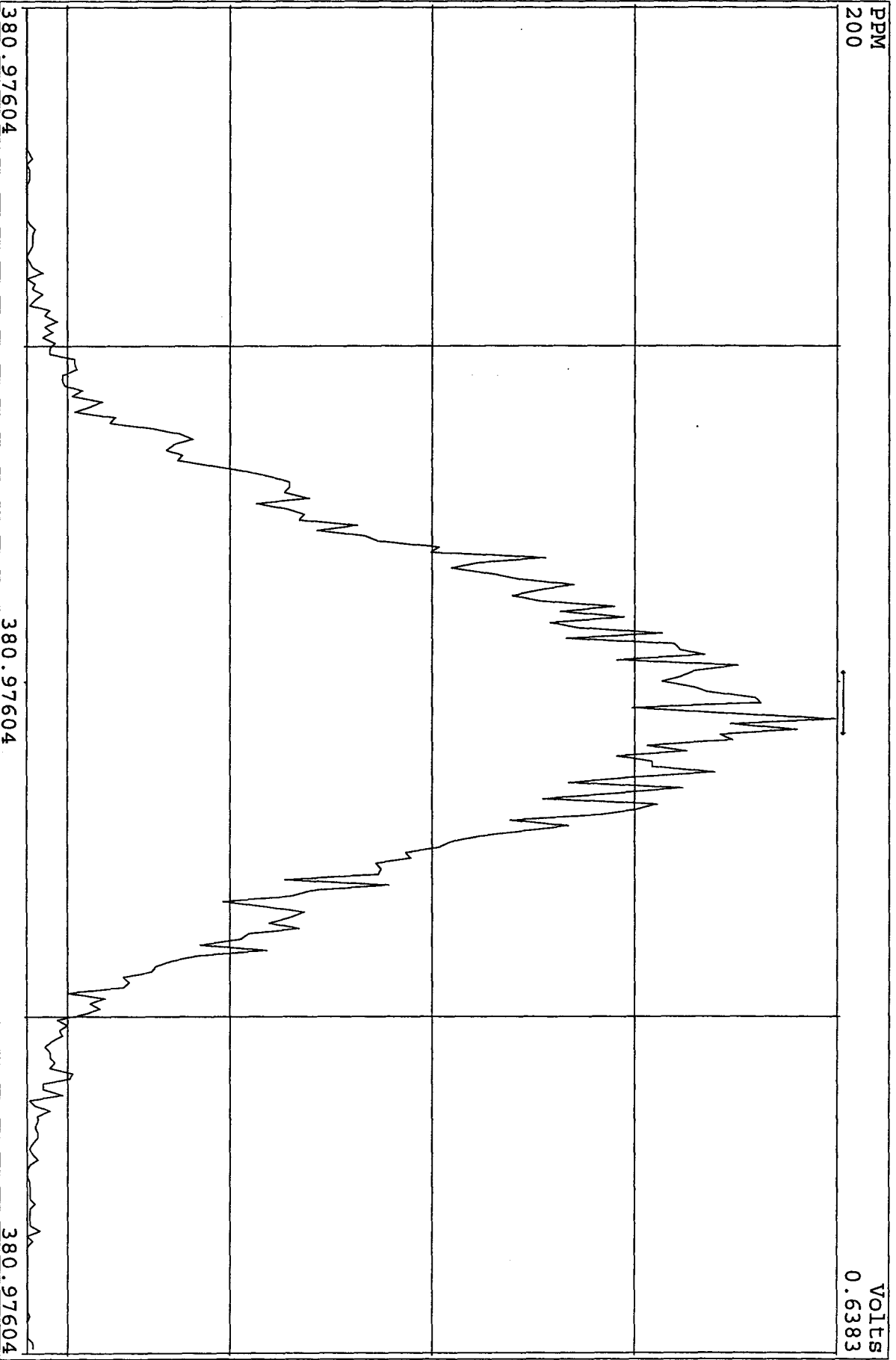
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Experiment: DIOXINRES Function: 6



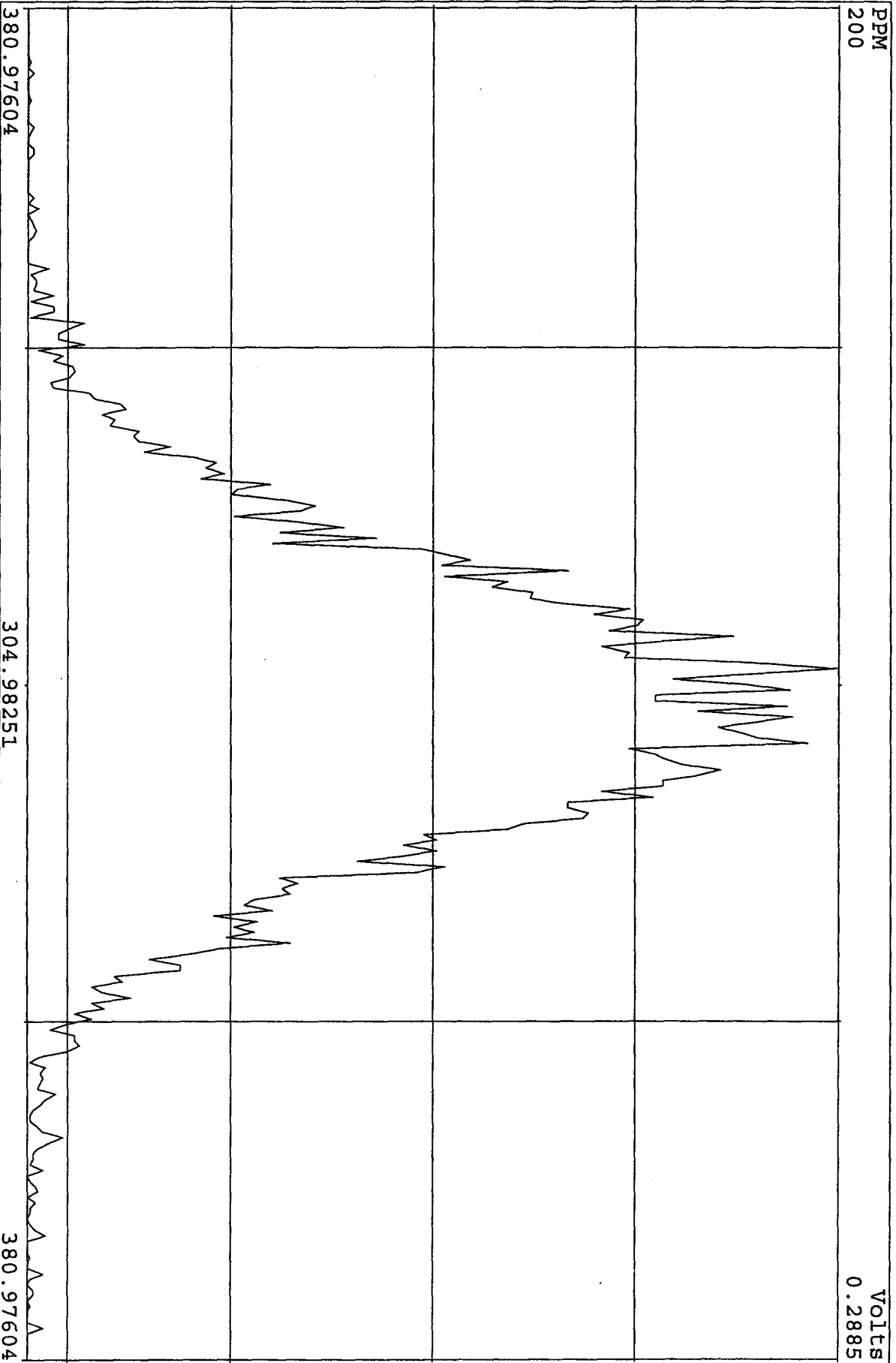
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Experiment: DIOXINRES Function: 7



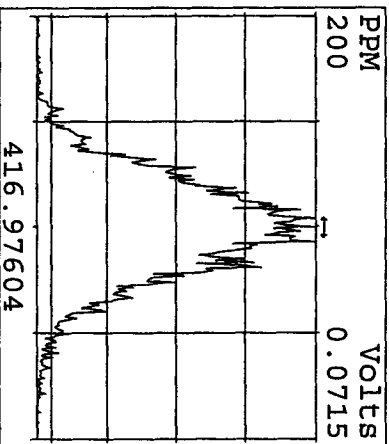
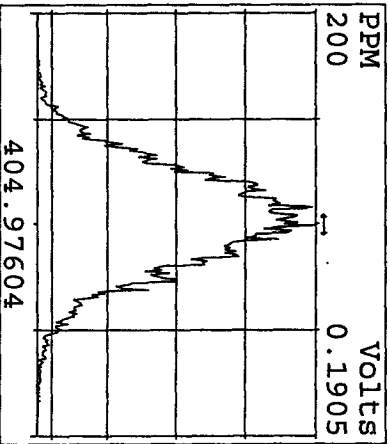
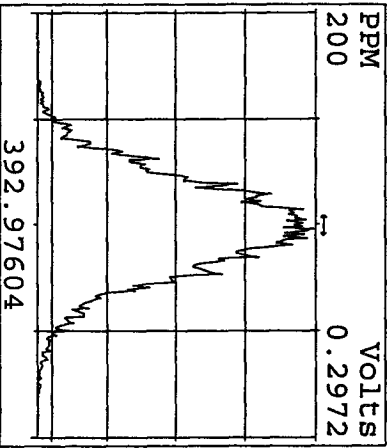
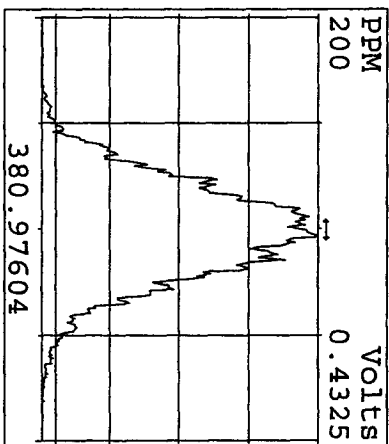
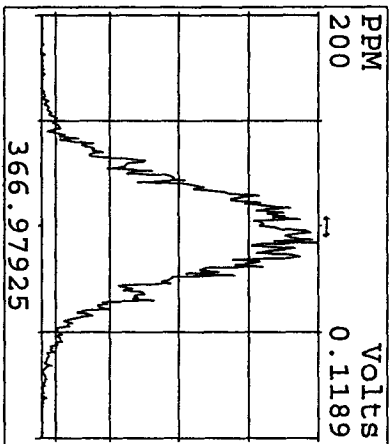
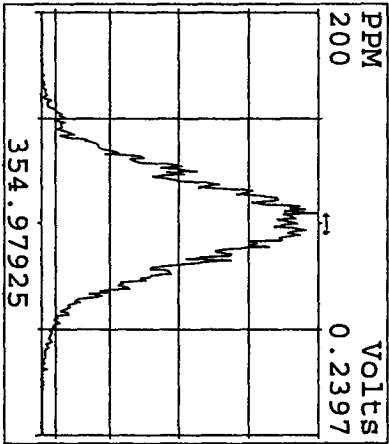
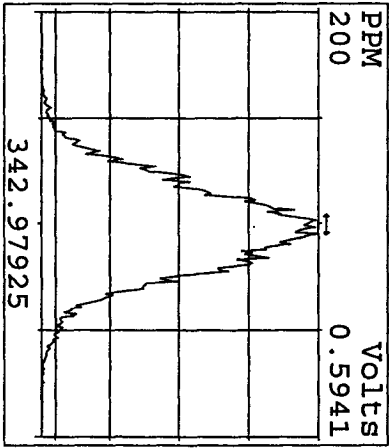
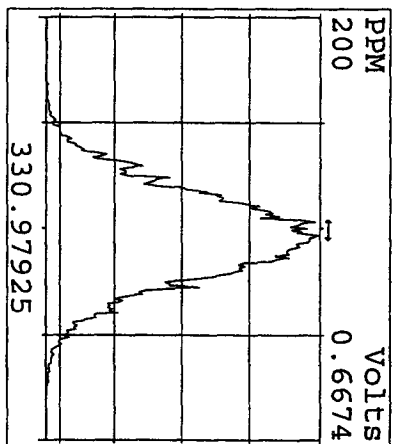
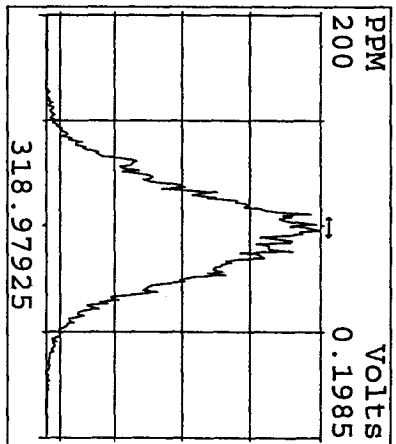
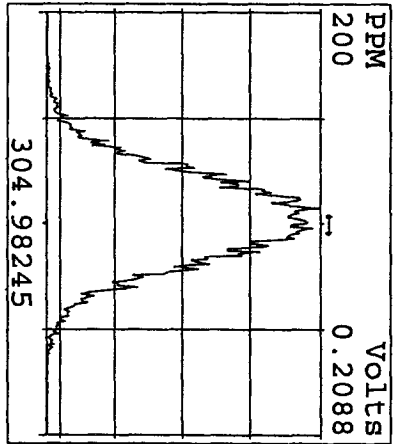
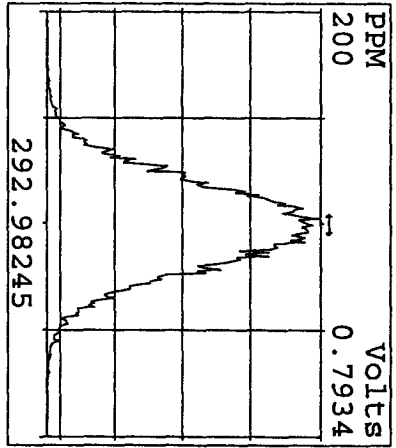
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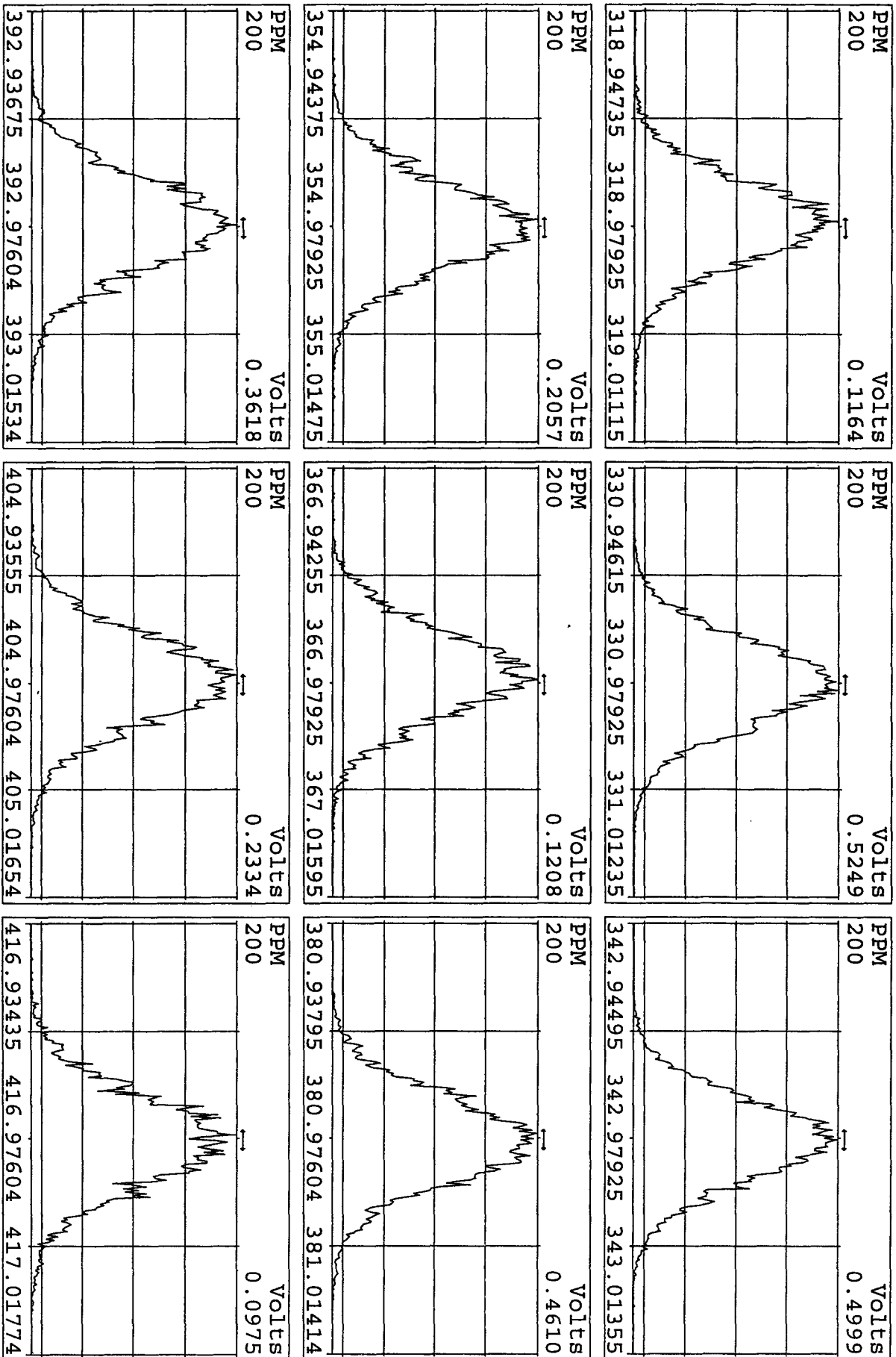
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Peak Locate Examination: 16-OCT-2010:20:16 File: RESCHK140C104D5  
Experiment: DIOXINRS Function: 1 Reference: PK

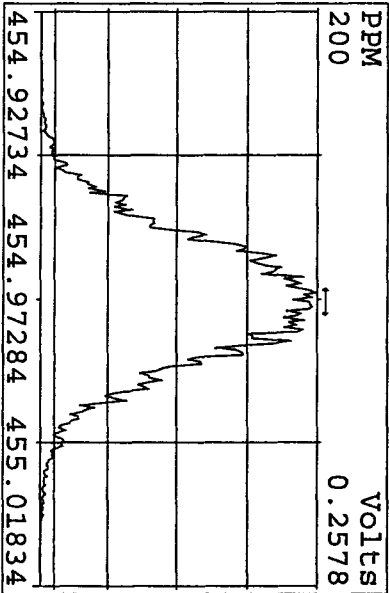
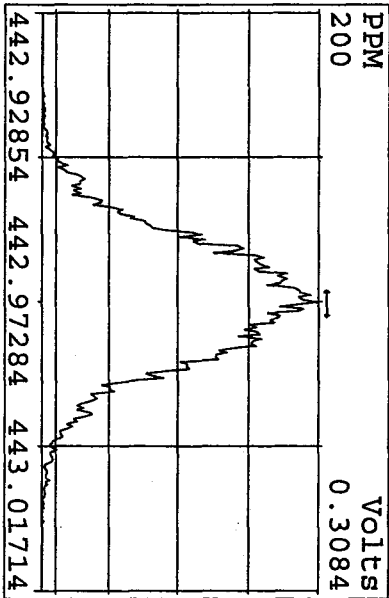
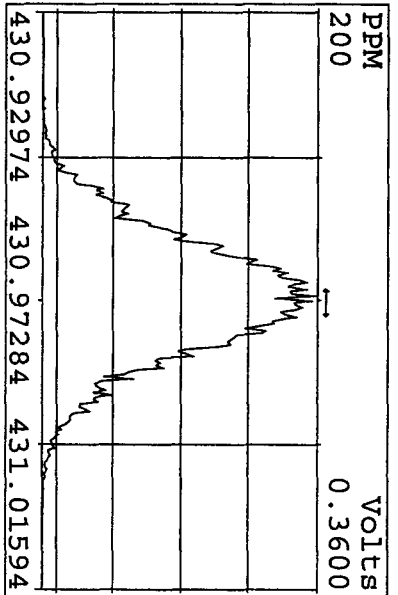
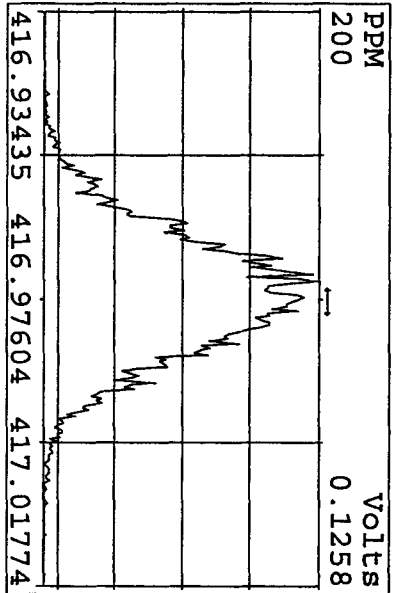
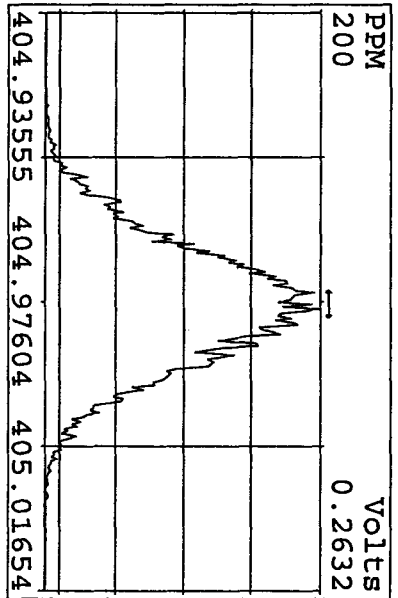
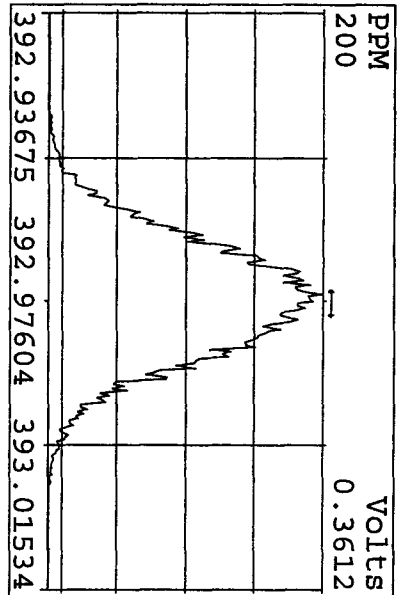
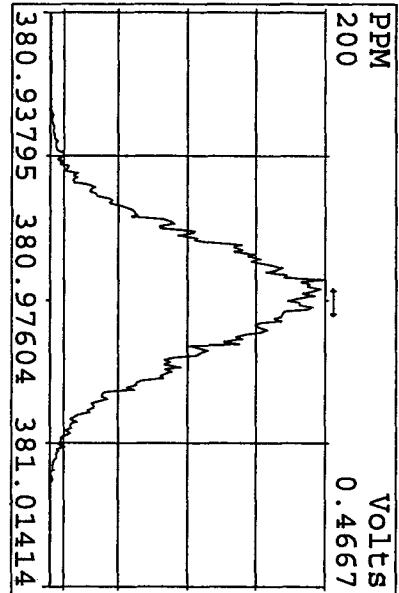
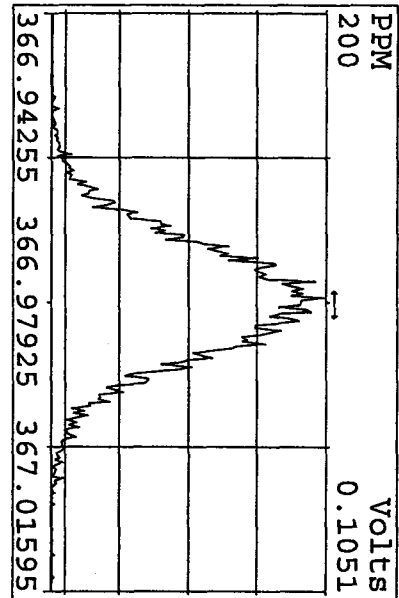


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 Experiment: DIOXINRES Function: 2 Reference: PFK

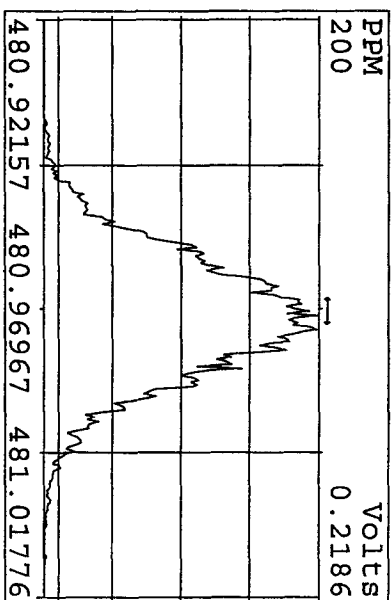
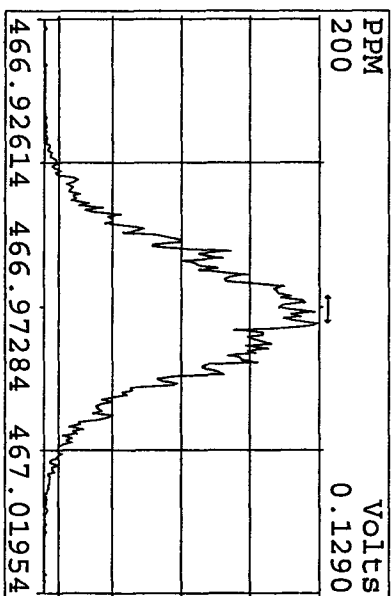
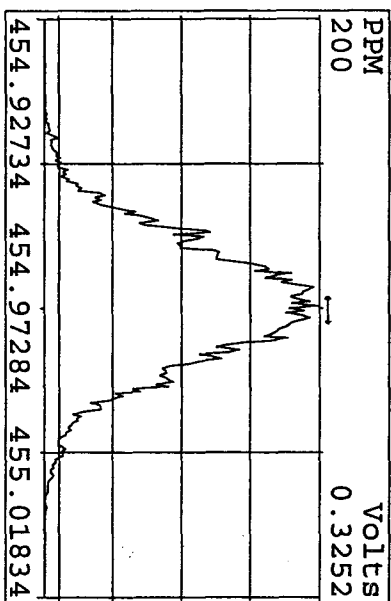
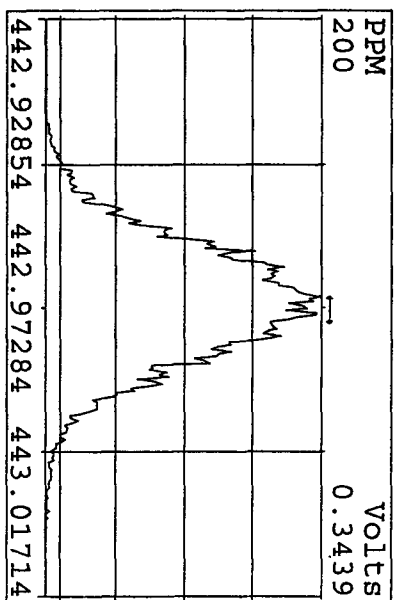
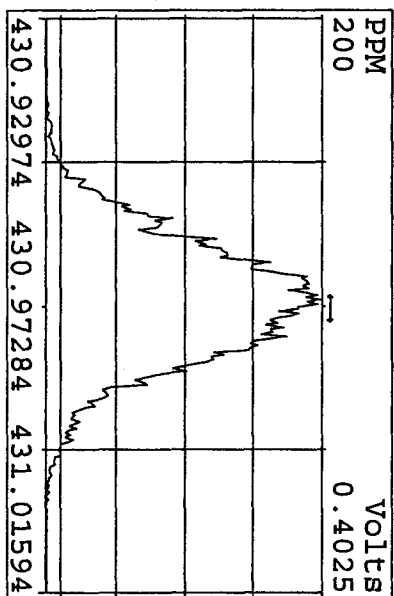
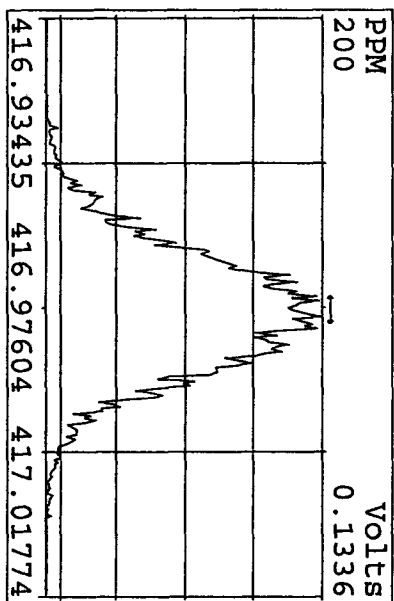
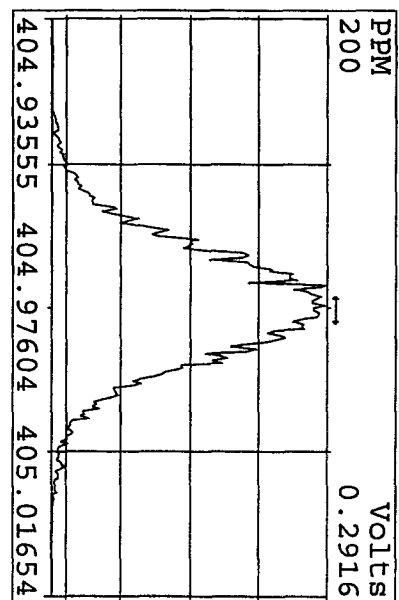
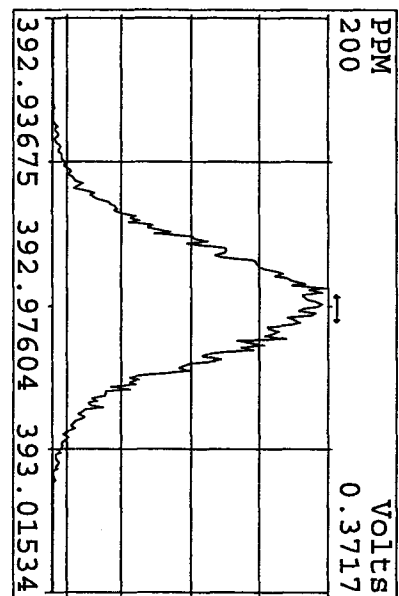
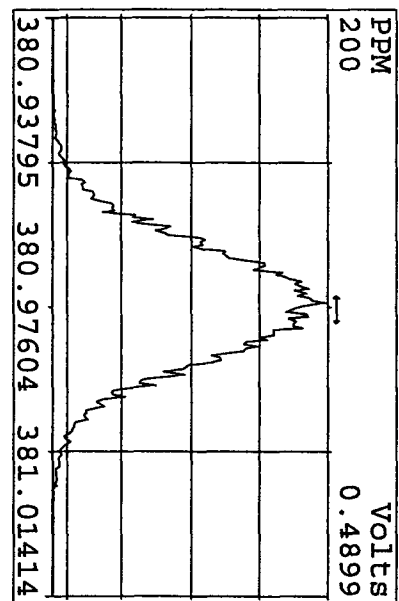




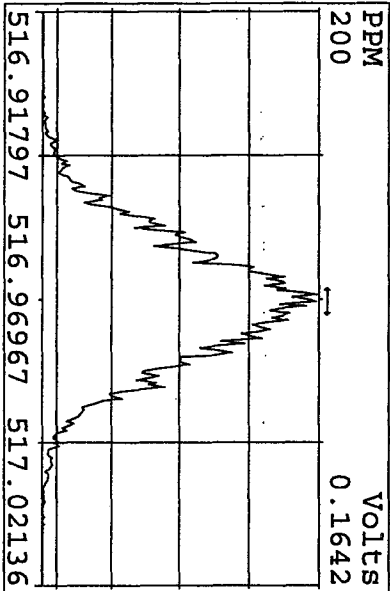
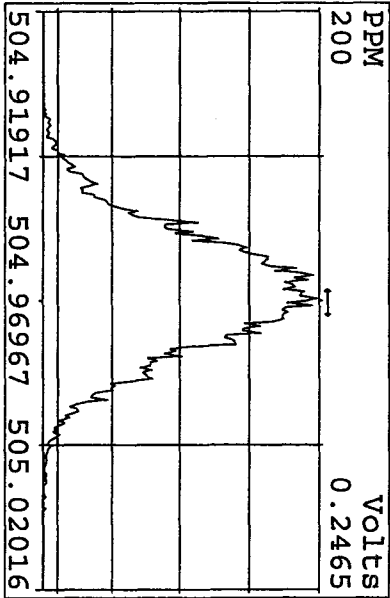
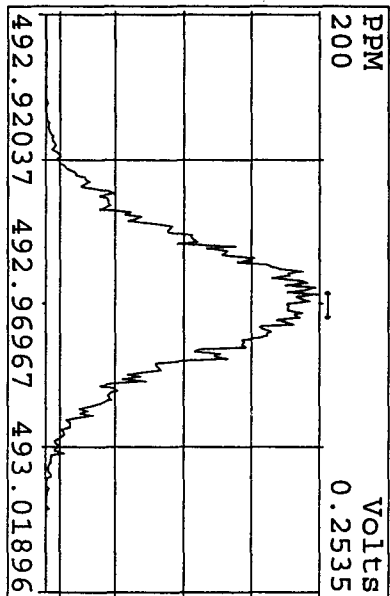
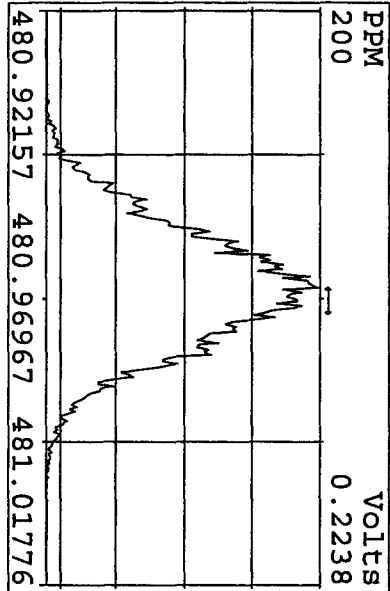
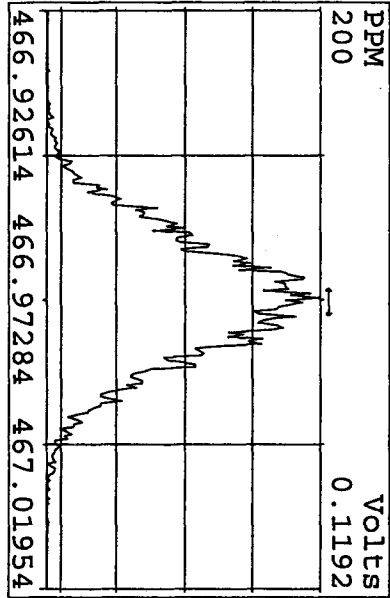
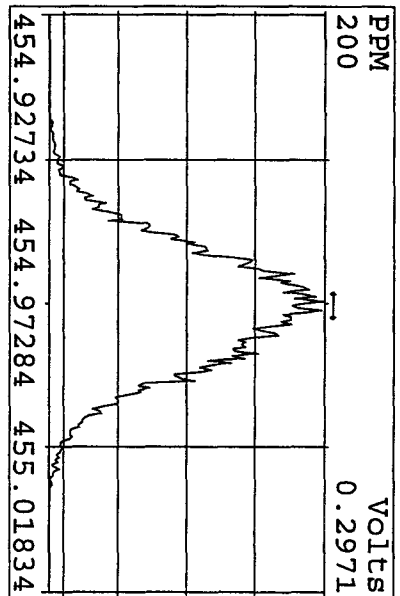
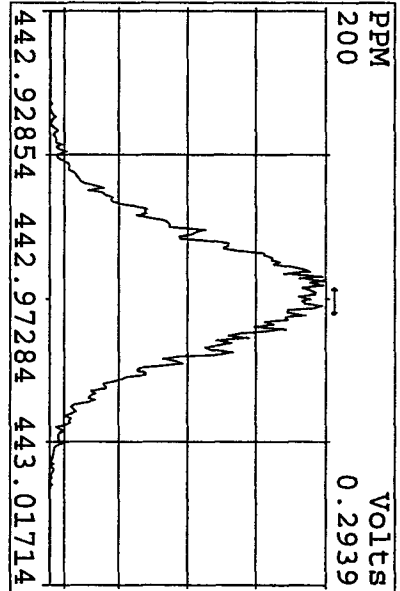
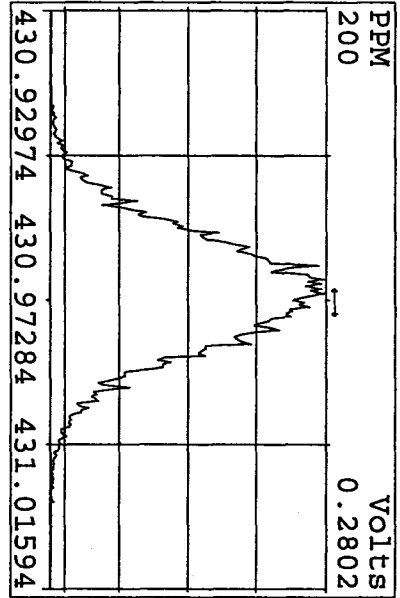
Peak Locate Examination: 16-OCT-2010:20:18 File: RESCHK140C104D5  
 Experiment: DIOXINRES Function: 3 Reference: PFX



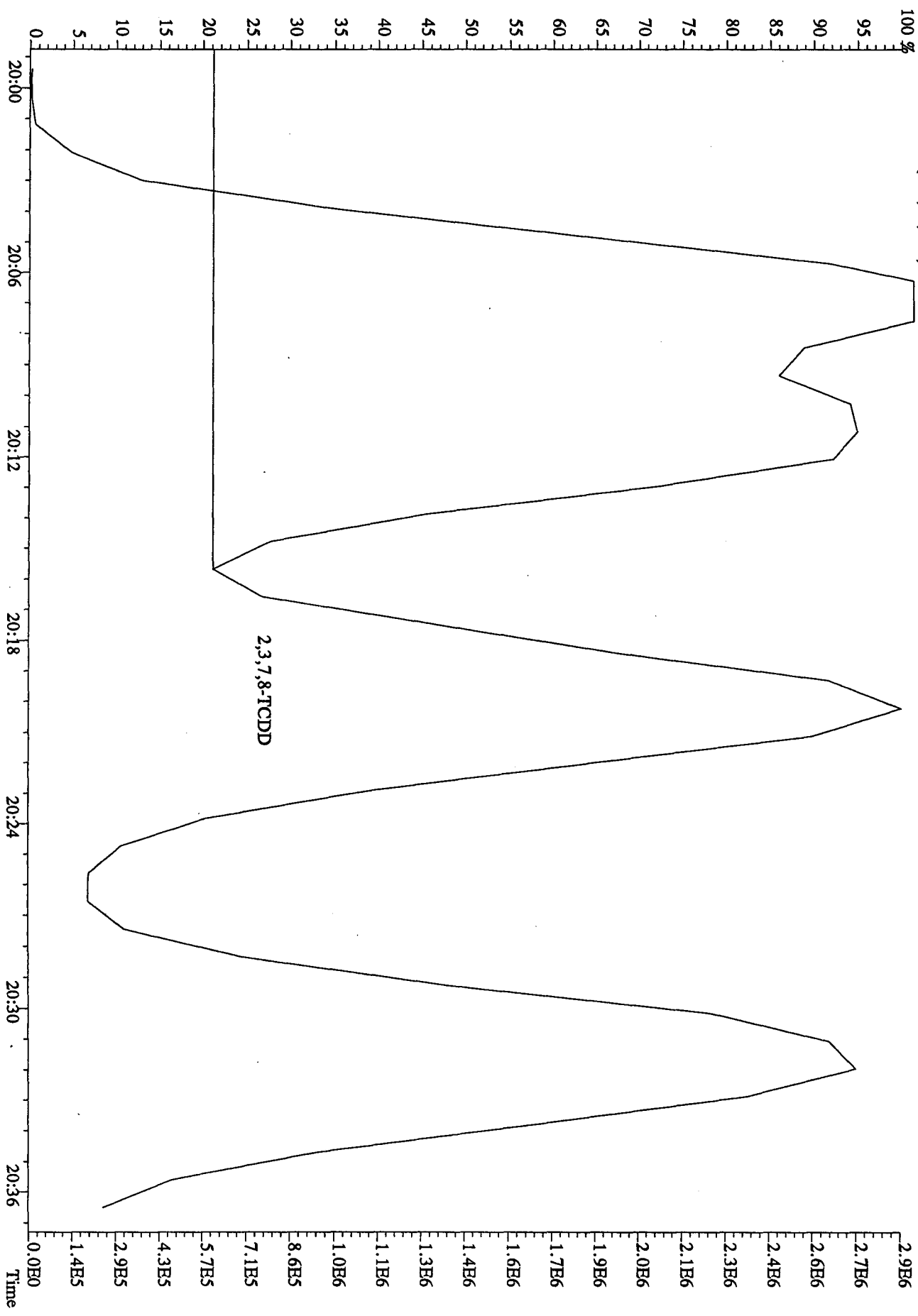
Peak Locate Examination: 16-OCT-2010:20:19 File: RESCHK140C104D5  
 Experiment: DIOXINRES Function: 4 Reference: PFK



Peak Locate Examination: 16-OCT-2010:20:20 File: RESCHK140C104D5  
 Experiment: DIOXINRES Function: 5 Reference: PFK



File:14OC104D5 #1-530 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#32 Text:CP1014B :DB-5 CPSM 3732-09 Exp:DIOXINRES  
 319.8965 S:32 BSUB(128,15,-3.0)



2,3,7,8-TCDD

ST0721A :CS-1 10DXN342 ST0721B :CS-2 10DXN334 ST0721C :CS-3 10DXN336  
 ST0721D :CS-5 10DXN339 ST0721E :CS-4 10DXN337

21JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D5

| Name | Mean | S. D. | %RSD | S4   | S5   | S6   | S7   | S8   |
|------|------|-------|------|------|------|------|------|------|
|      |      |       |      | RRF1 | RRF2 | RRF3 | RRF4 | RRF5 |

|                  |       |       |        |      |      |      |      |      |
|------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,4-TCDD | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-2,3,7,8-TCDF | 1.229 | 0.154 | 12.5 % | 1.30 | 1.31 | 1.39 | 1.03 | 1.11 |
| 2,3,7,8-TCDF     | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 0.97 | 1.03 |
| Total TCDF       | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 0.97 | 1.03 |

|                  |       |       |        |      |      |      |      |      |
|------------------|-------|-------|--------|------|------|------|------|------|
| 13C-2,3,7,8-TCDD | 0.905 | 0.029 | 3.25 % | 0.92 | 0.92 | 0.94 | 0.88 | 0.87 |
| 2,3,7,8-TCDD     | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.01 | 1.02 |
| Total TCDD       | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.01 | 1.02 |

|                     |       |       |        |      |      |      |      |      |
|---------------------|-------|-------|--------|------|------|------|------|------|
| 37Cl-2,3,7,8-TCDD   | 1.326 | 0.015 | 1.12 % | 1.33 | 1.31 | 1.32 | 1.35 | 1.32 |
| 13C-1,2,3,7,8-PeCDF | 0.876 | 0.018 | 2.08 % | 0.86 | 0.90 | 0.86 | 0.89 | 0.87 |
| 1,2,3,7,8-PeCDF     | 1.077 | 0.042 | 3.92 % | 1.03 | 1.04 | 1.08 | 1.11 | 1.12 |
| 2,3,4,7,8-PeCDF     | 1.046 | 0.040 | 3.80 % | 1.00 | 1.02 | 1.08 | 1.04 | 1.09 |
| Total F2 PeCDF      | 1.061 | 0.039 | 3.67 % | 1.01 | 1.03 | 1.08 | 1.08 | 1.10 |
| Total F1 PeCDF      | 1.061 | 0.039 | 3.67 % | 1.01 | 1.03 | 1.08 | 1.08 | 1.10 |

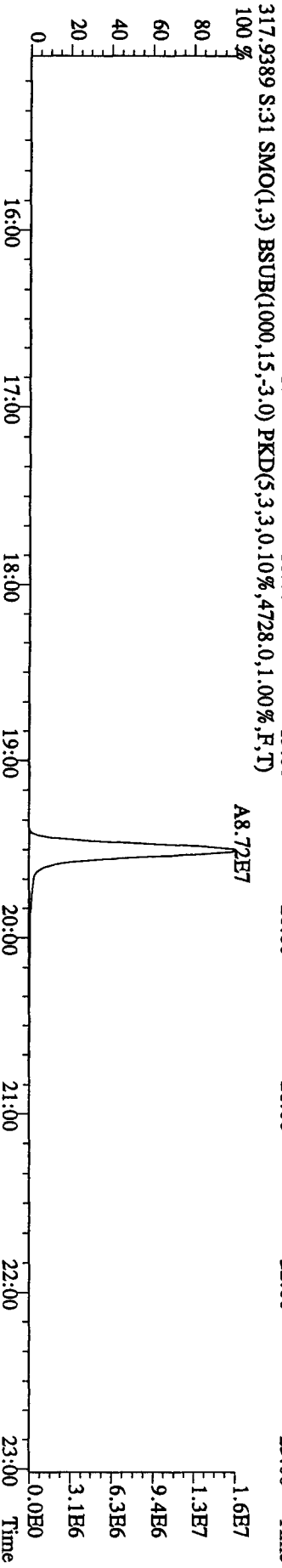
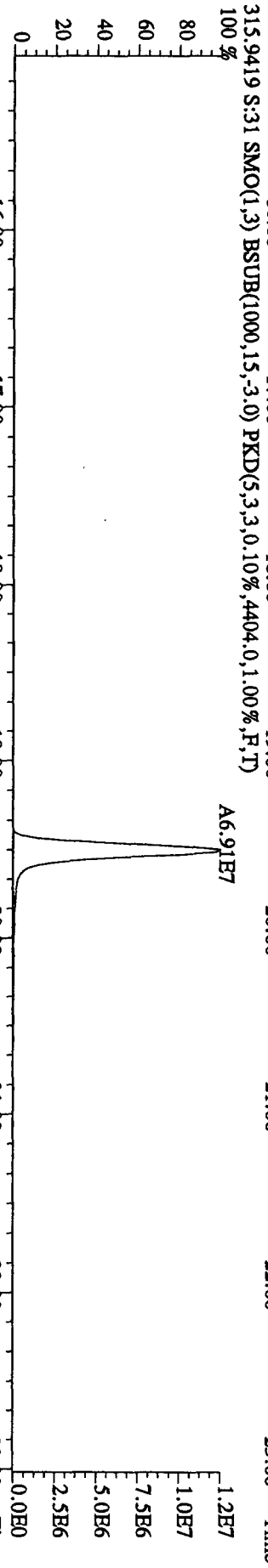
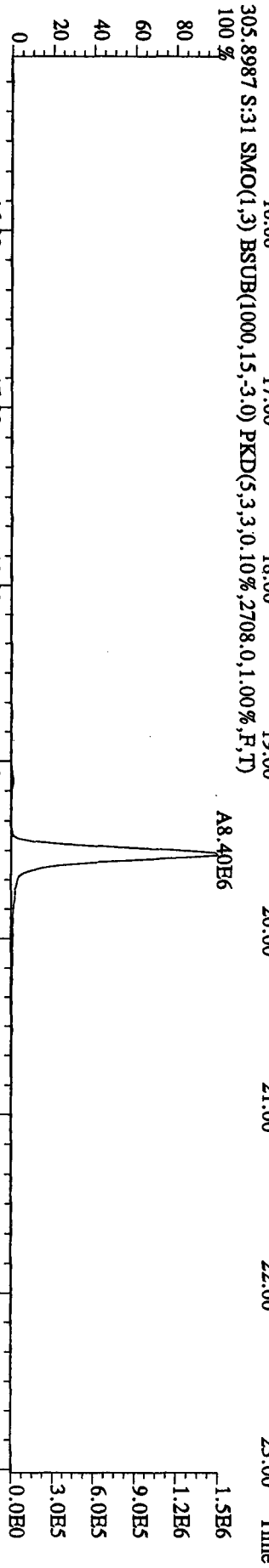
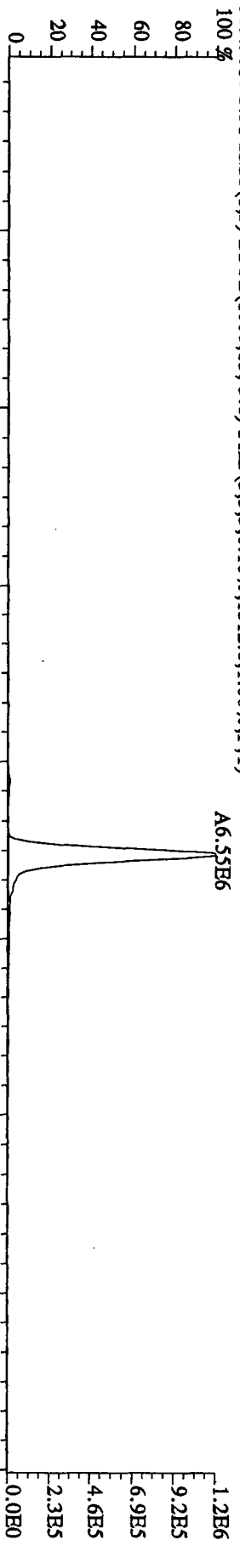
|                     |       |       |        |      |      |      |      |      |
|---------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,7,8-PeCDD | 0.661 | 0.010 | 1.45 % | 0.65 | 0.66 | 0.67 | 0.67 | 0.65 |
| 1,2,3,7,8-PeCDD     | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.95 | 0.97 |
| Total PeCDD         | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.95 | 0.97 |

|                       |       |       |        |      |      |      |      |      |
|-----------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,7,8,9-HxCDD | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-1,2,3,4,7,8-HxCDF | 1.045 | 0.067 | 6.44 % | 1.03 | 1.15 | 0.98 | 1.00 | 1.07 |
| 1,2,3,4,7,8-HxCDF     | 1.217 | 0.012 | 1.02 % | 1.21 | 1.20 | 1.22 | 1.22 | 1.23 |
| 1,2,3,6,7,8-HxCDF     | 1.282 | 0.089 | 6.95 % | 1.19 | 1.22 | 1.41 | 1.33 | 1.26 |
| 2,3,4,6,7,8-HxCDF     | 1.233 | 0.080 | 6.49 % | 1.19 | 1.15 | 1.35 | 1.27 | 1.21 |
| 1,2,3,7,8,9-HxCDF     | 1.098 | 0.096 | 8.73 % | 1.08 | 0.99 | 1.25 | 1.10 | 1.06 |
| Total HxCDF           | 1.208 | 0.066 | 5.43 % | 1.17 | 1.14 | 1.31 | 1.23 | 1.19 |

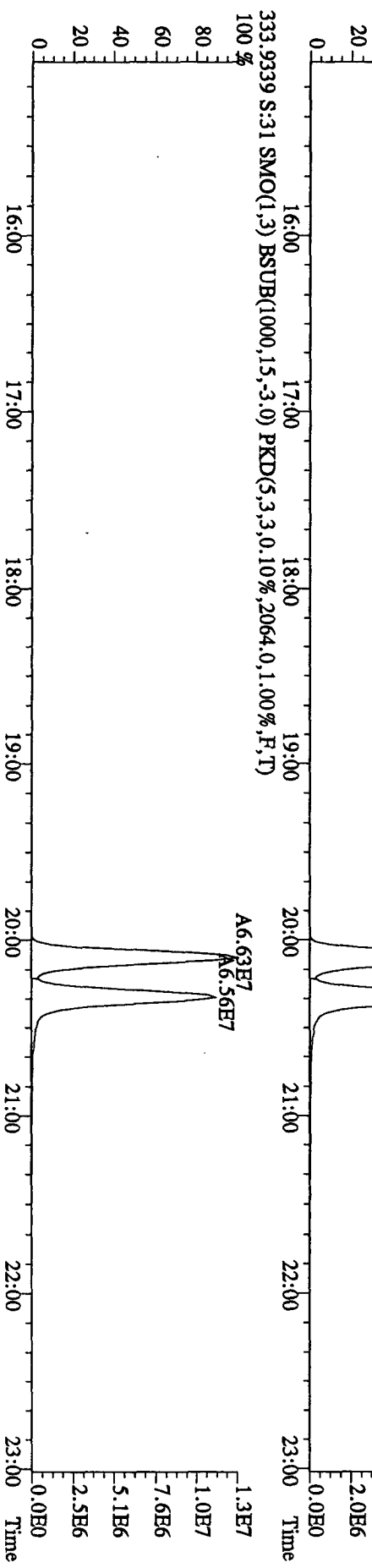
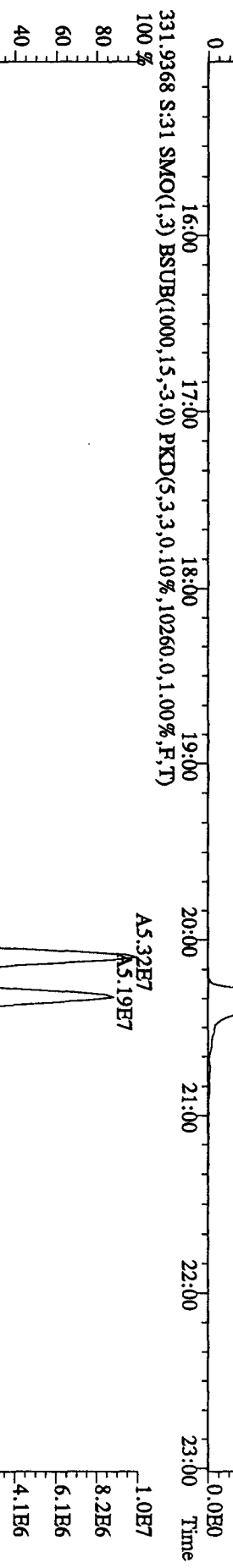
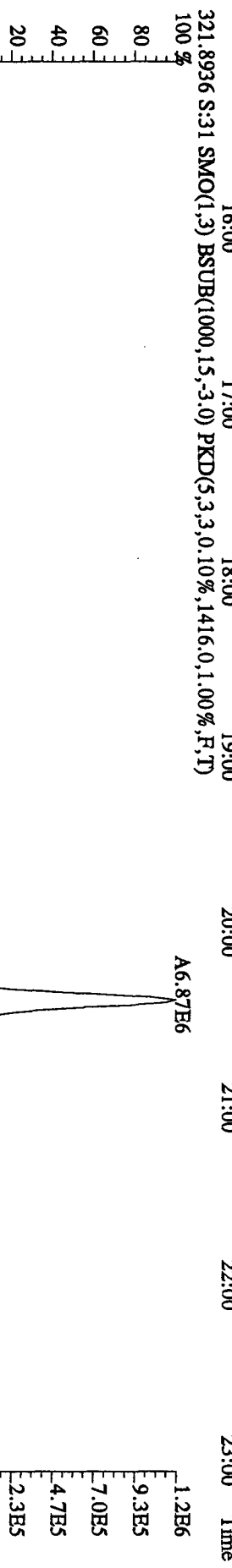
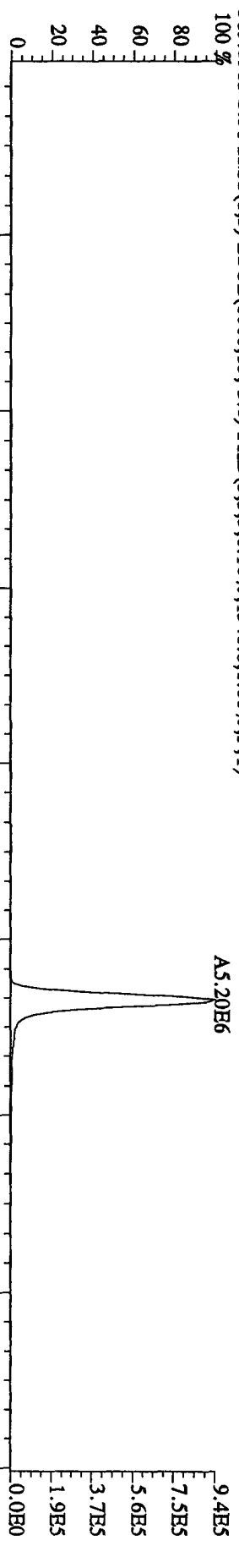
|                       |       |       |        |      |      |      |      |      |
|-----------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,6,7,8-HxCDD | 0.831 | 0.055 | 6.68 % | 0.84 | 0.83 | 0.92 | 0.77 | 0.79 |
| 1,2,3,4,7,8-HxCDD     | 1.037 | 0.122 | 11.8 % | 0.90 | 0.99 | 0.97 | 1.17 | 1.16 |

|                         |       |       |        |      |      |      |      |      |
|-------------------------|-------|-------|--------|------|------|------|------|------|
| 1,2,3,6,7,8-HxCDD       | 1.163 | 0.060 | 5.18 % | 1.14 | 1.23 | 1.10 | 1.12 | 1.23 |
| 1,2,3,7,8,9-HxCDD       | 1.182 | 0.057 | 4.86 % | 1.15 | 1.16 | 1.12 | 1.25 | 1.24 |
| Total HxCDD             | 1.127 | 0.067 | 5.93 % | 1.06 | 1.12 | 1.06 | 1.18 | 1.21 |
| 13C-1,2,3,4,6,7,8-HpCDF | 0.910 | 0.051 | 5.65 % | 0.99 | 0.91 | 0.92 | 0.87 | 0.86 |
| 1,2,3,4,6,7,8-HpCDF     | 1.346 | 0.027 | 1.99 % | 1.31 | 1.34 | 1.35 | 1.35 | 1.38 |
| 1,2,3,4,7,8,9-HpCDF     | 1.093 | 0.049 | 4.49 % | 1.01 | 1.09 | 1.11 | 1.13 | 1.13 |
| Total HpCDF             | 1.220 | 0.037 | 3.05 % | 1.16 | 1.21 | 1.23 | 1.24 | 1.26 |
| 13C-1,2,3,4,6,7,8-HpCDD | 0.827 | 0.049 | 5.98 % | 0.89 | 0.85 | 0.83 | 0.76 | 0.79 |
| 1,2,3,4,6,7,8-HpCDD     | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.09 | 1.10 |
| Total HpCDD             | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.09 | 1.10 |
| 13C-OCDD                | 0.620 | 0.029 | 4.60 % | 0.66 | 0.63 | 0.63 | 0.60 | 0.59 |
| OCDF                    | 1.370 | 0.027 | 1.98 % | 1.36 | 1.35 | 1.35 | 1.39 | 1.41 |
| OCDD                    | 1.199 | 0.066 | 5.48 % | 1.31 | 1.17 | 1.16 | 1.17 | 1.19 |

File:14OC104D5 #1-530 Acq:15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#31 Text:ST1014C :CS3 10DXN461 Exp:DIOXINRES  
 303.9016 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1512.0,1.00%,F,T)

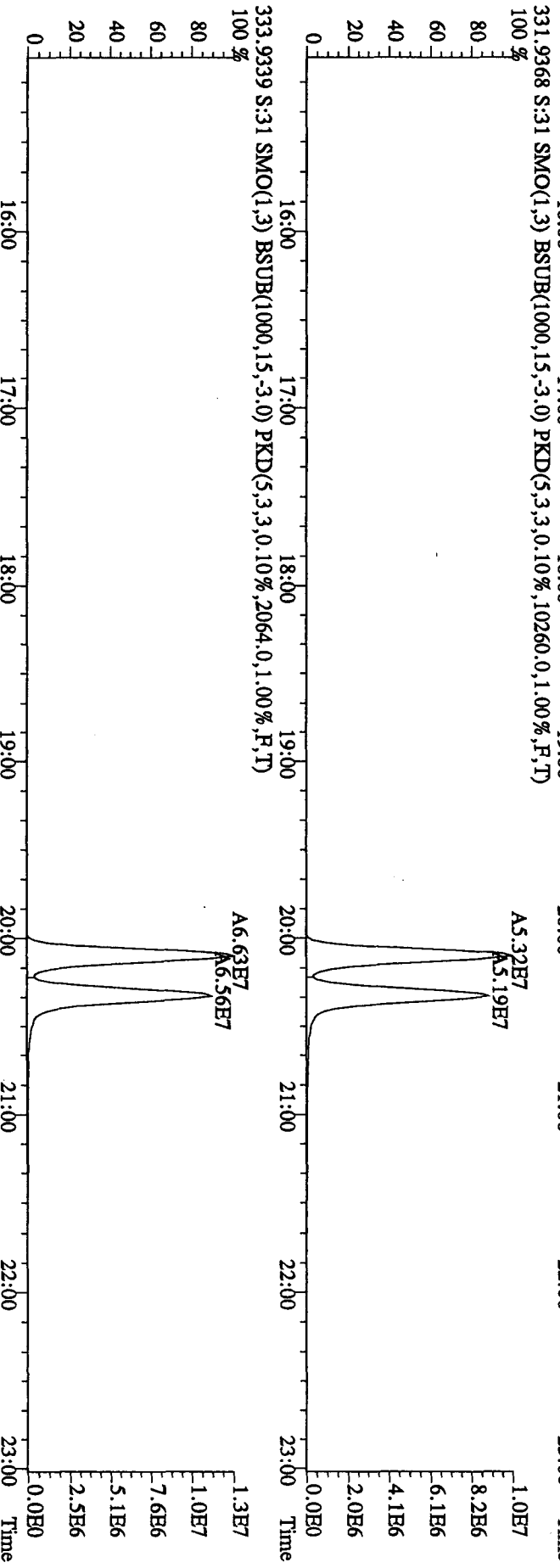
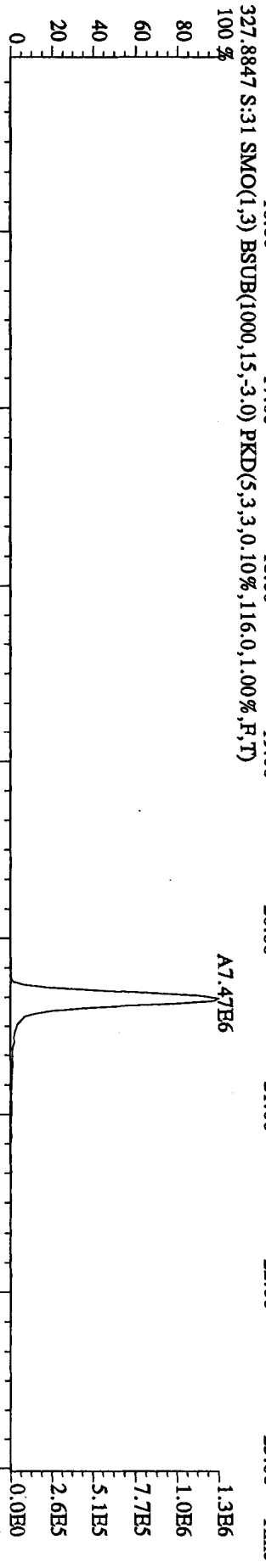
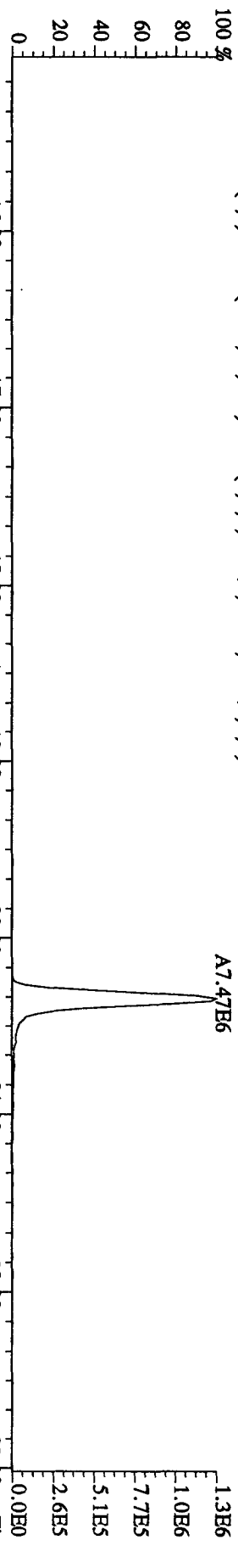


File:14OC104D5 #1-530 Acq:15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#31 Text:ST1014C :CS3 10DXN461 Exp:DIOXINRES  
 319.8965 S:31 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1348.0,1.00%,F,T)  
 100%

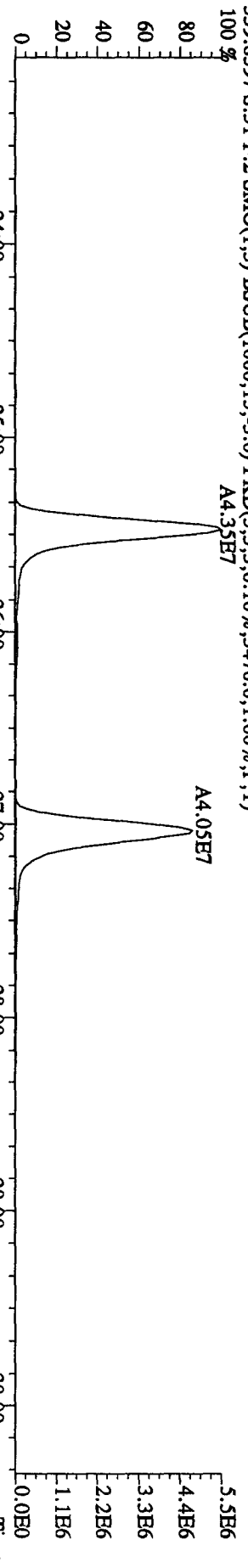




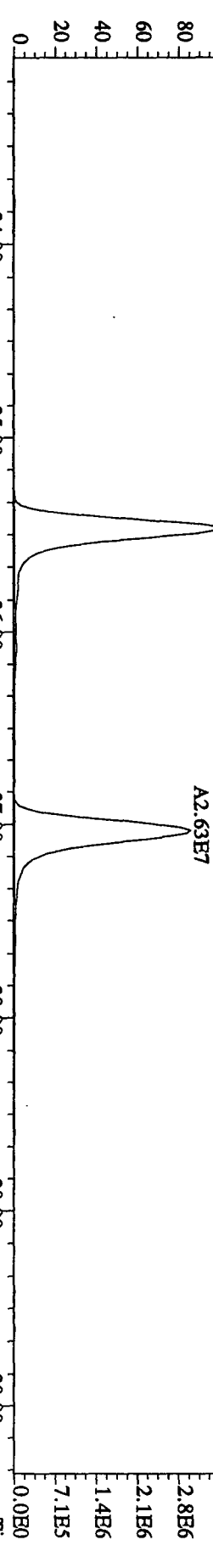
File: 14OC104D5 #1-530 Acq: 15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#31 Text: ST1014C :CS3 10DXN461 Exp: DIOXINRES  
 327.8847 S:31 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,116.0,1.00%,F,T)  
 100%



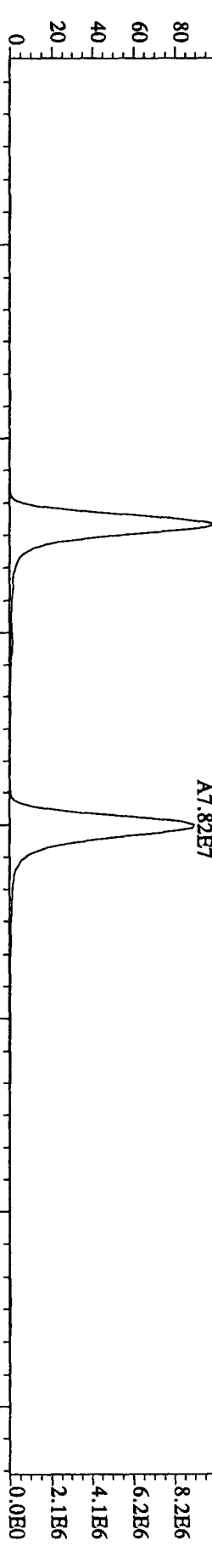
File:14OC104D5 #1-470 Acq:15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#31 Text:ST1014C :CS3 10DYXN461 Exp:DIOXINRES  
 339.8597 S:31 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3476,0,1,00%,F,T)  
 A4.35E7



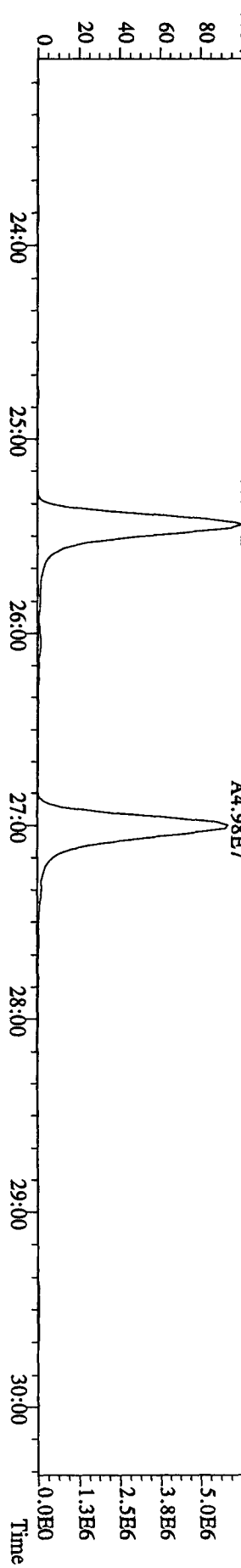
341.8567 S:31 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5088,0,1,00%,F,T)  
 A2.79E7



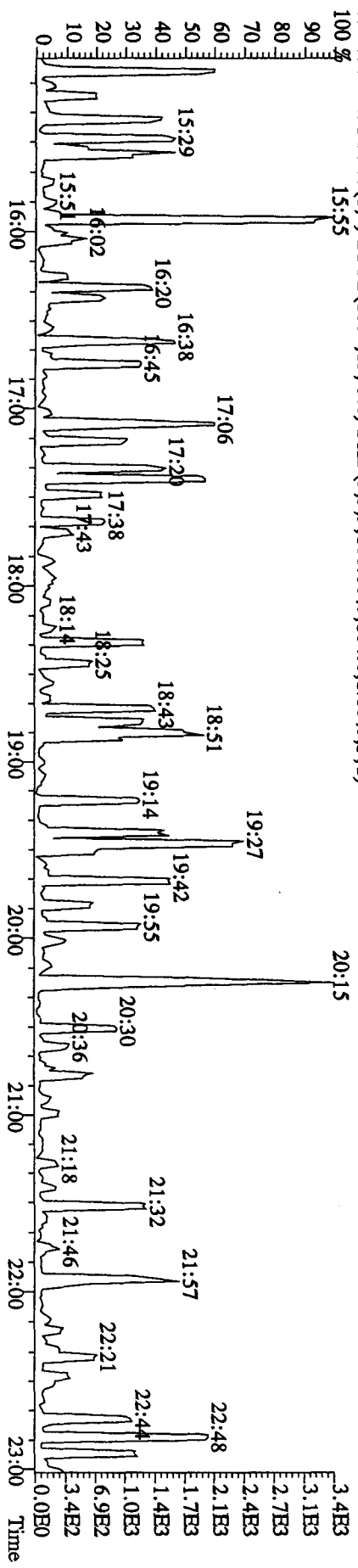
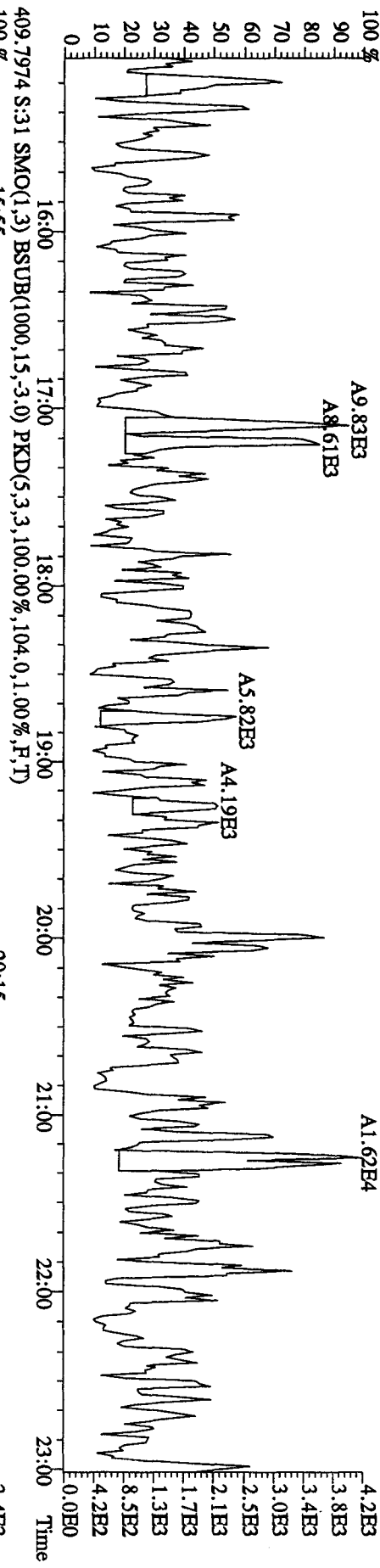
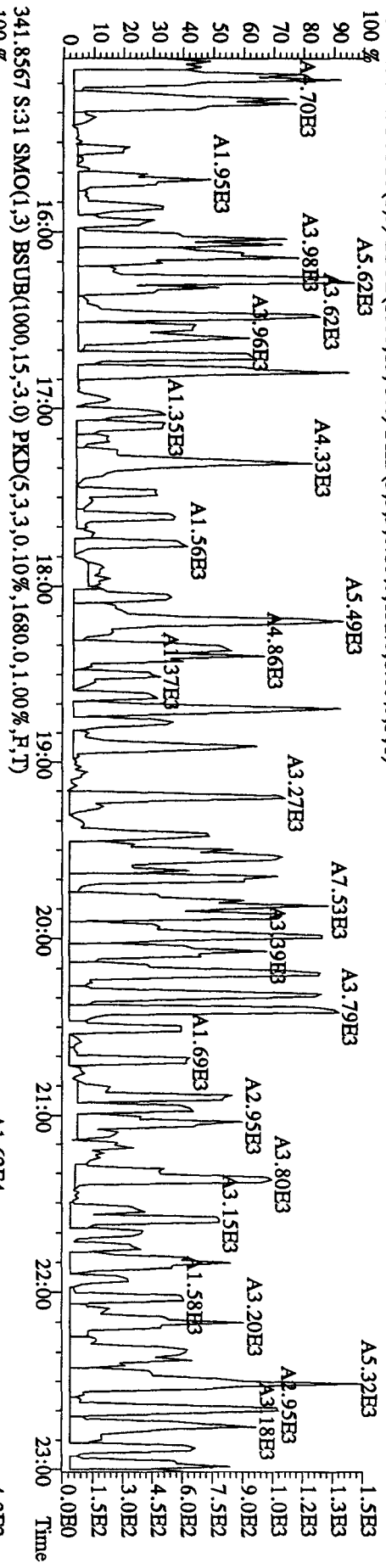
351.9000 S:31 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3608,0,1,00%,F,T)  
 A7.91E7



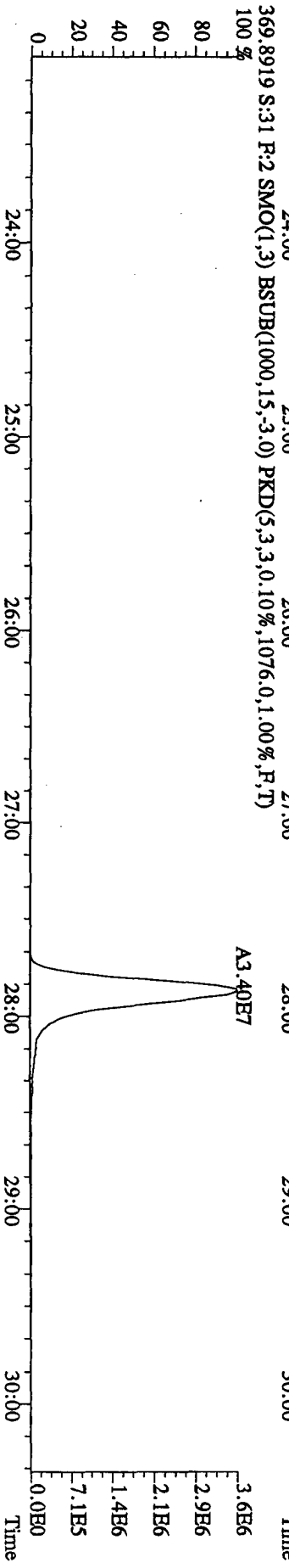
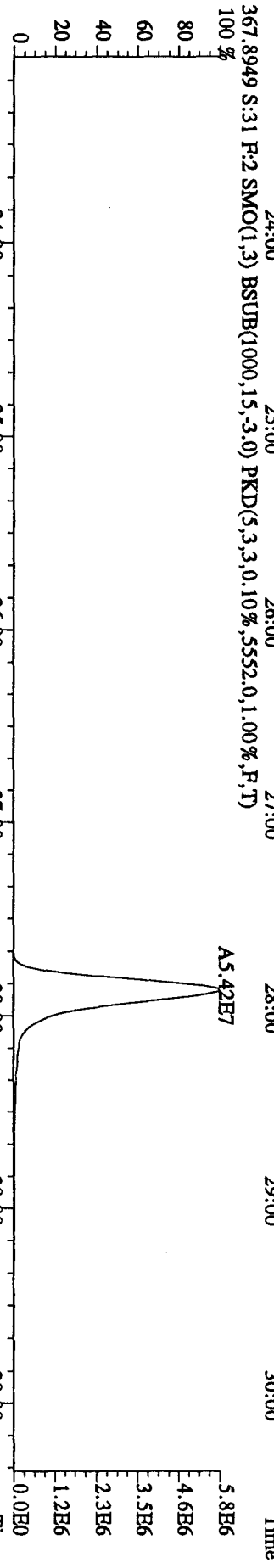
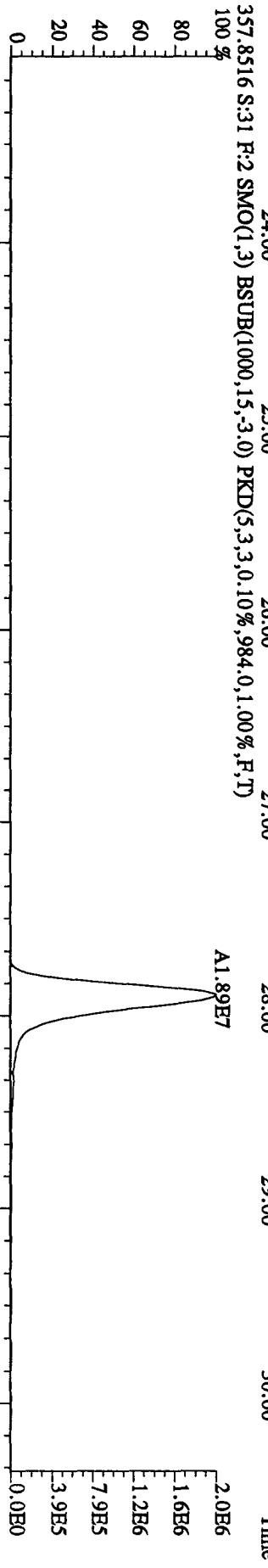
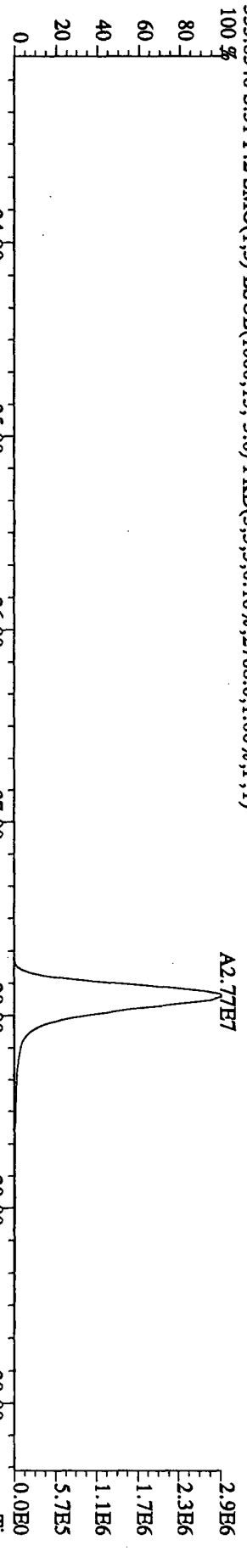
353.8970 S:31 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6668,0,1,00%,F,T)  
 A4.93E7



File: 140C104DS #1-530 Acq: 15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#31 Text:ST1014C :CS3 10DXN461 Exp: DIOXINRES  
 339.8597 S:3.1 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,132.0,1.00%,F,T)

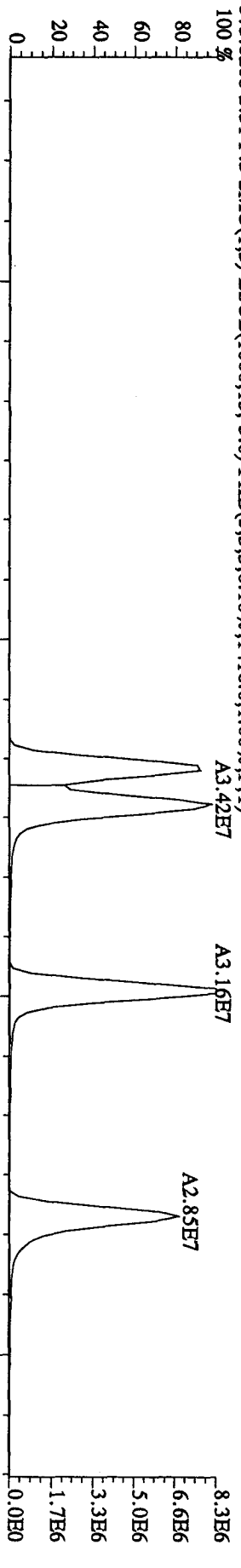


File:14OC104D5 #1-470 Acq:15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#31 Text:ST1014C :CSS3 10DXN461 Exp:DIOXINRES  
 355.8546 S:31 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2768.0,1.00%,F,T)

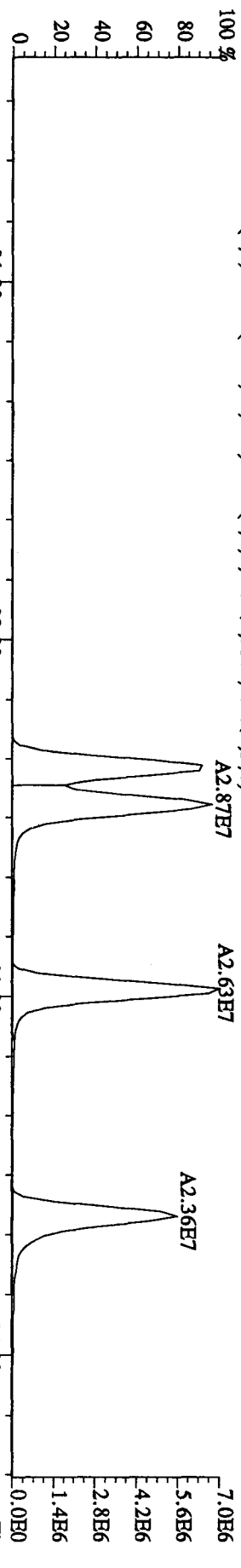


File: 140C104D5 #1-286 Acq: 15-OCT-2010 08:22:22 GC EI+ Voltage S1R Autospec-UltimaB  
Sample#31 Text: ST1014C :CS3 10DXN461 Exp: DIOXINRES

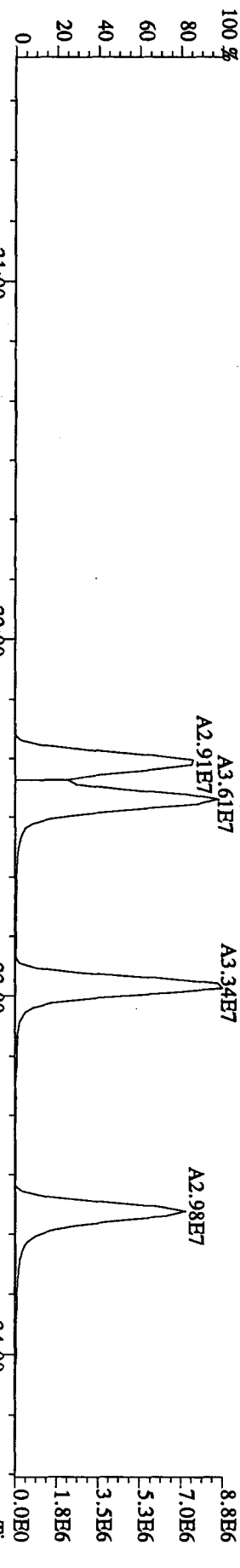
373.8208 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1416,0,1.00%,F,T)



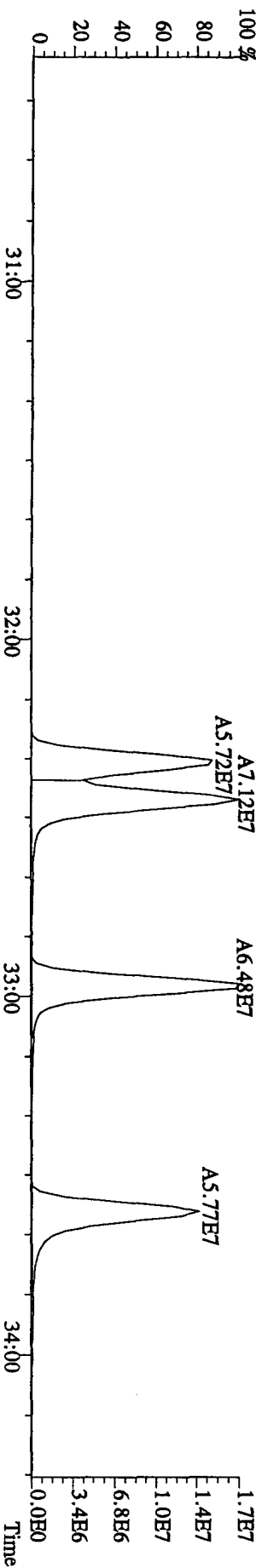
375.8178 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,92,0,1.00%,F,T)



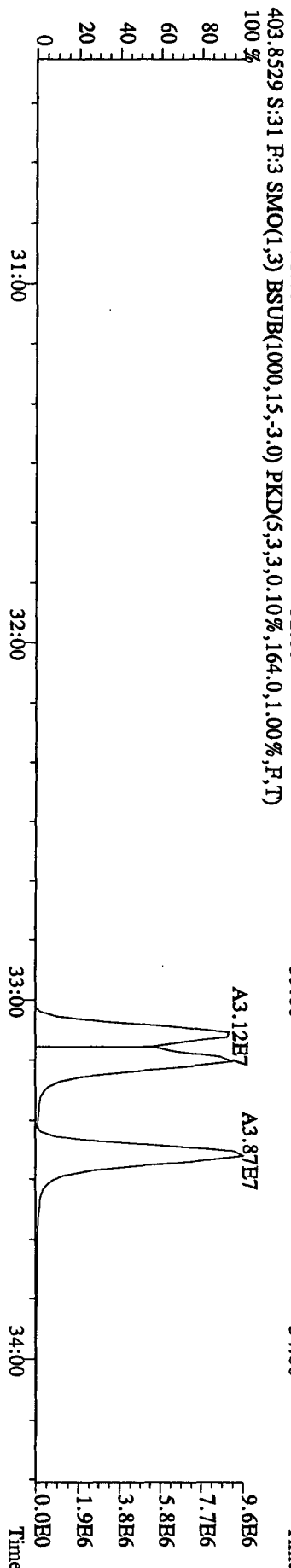
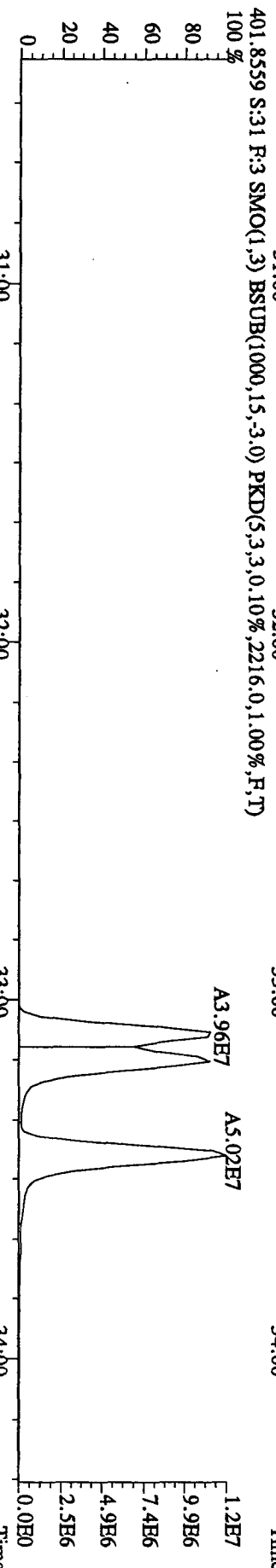
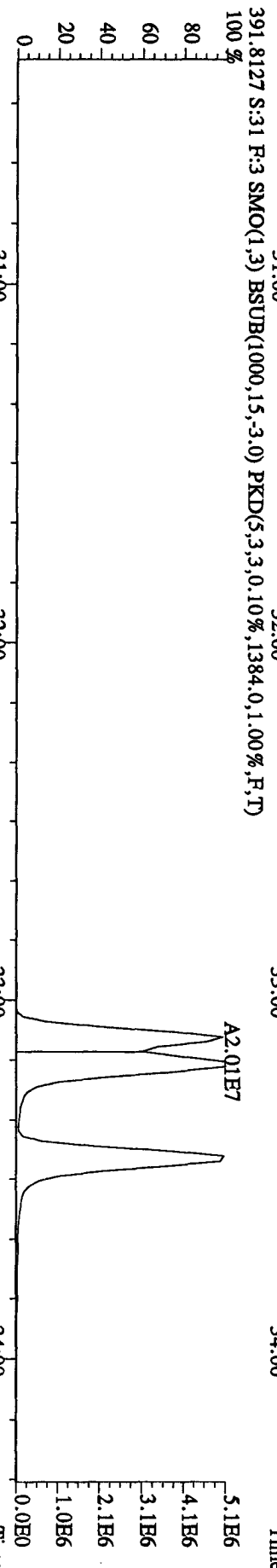
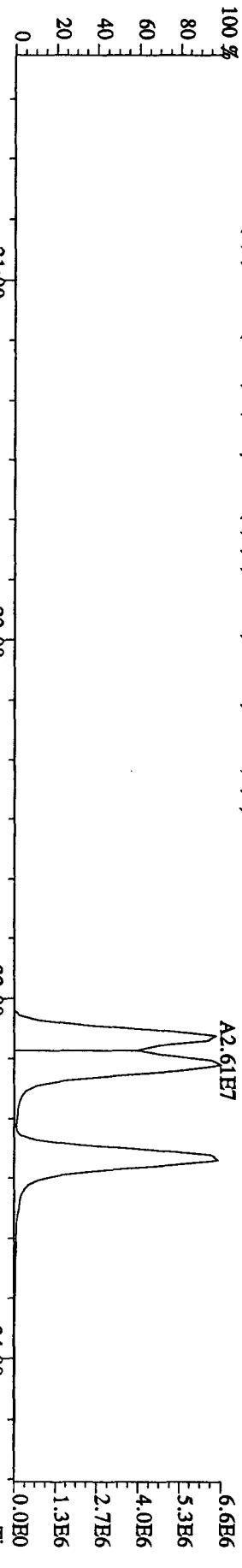
383.8639 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2024,0,1.00%,F,T)



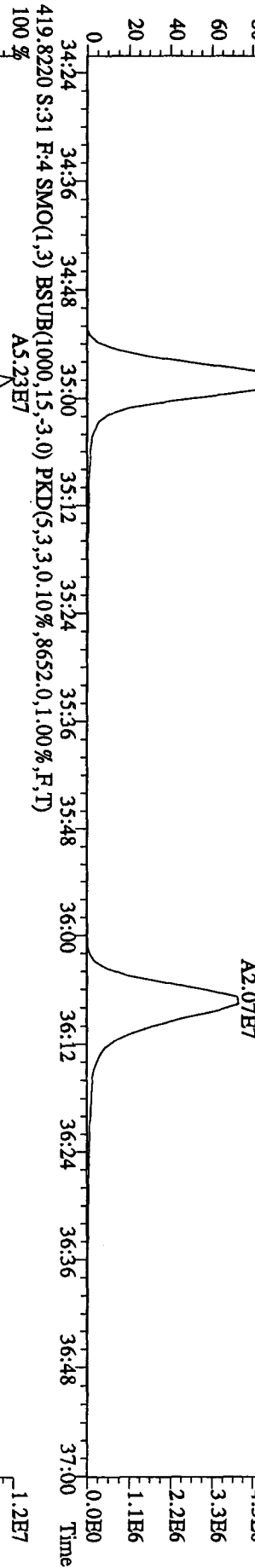
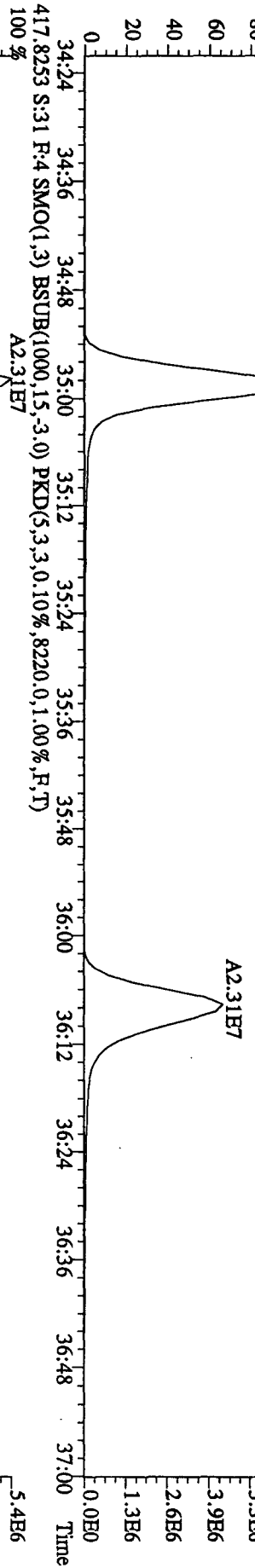
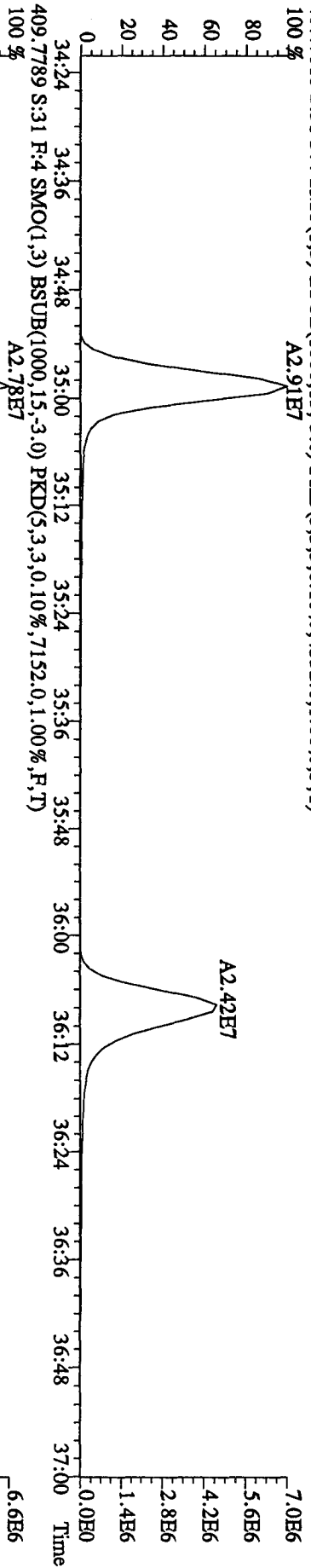
385.8610 S:31 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2012,0,1.00%,F,T)



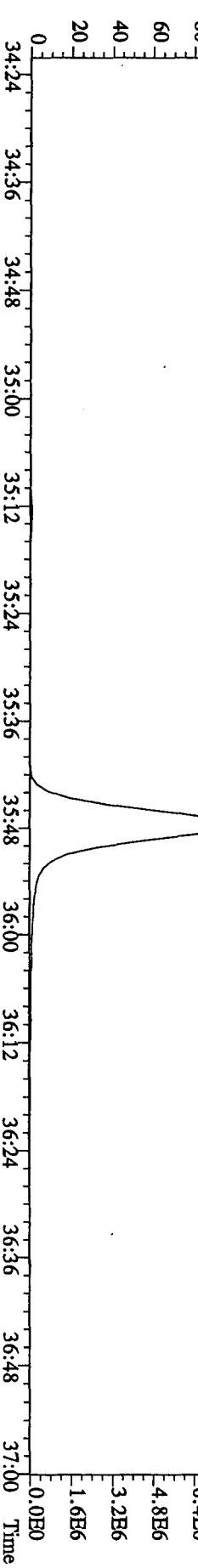
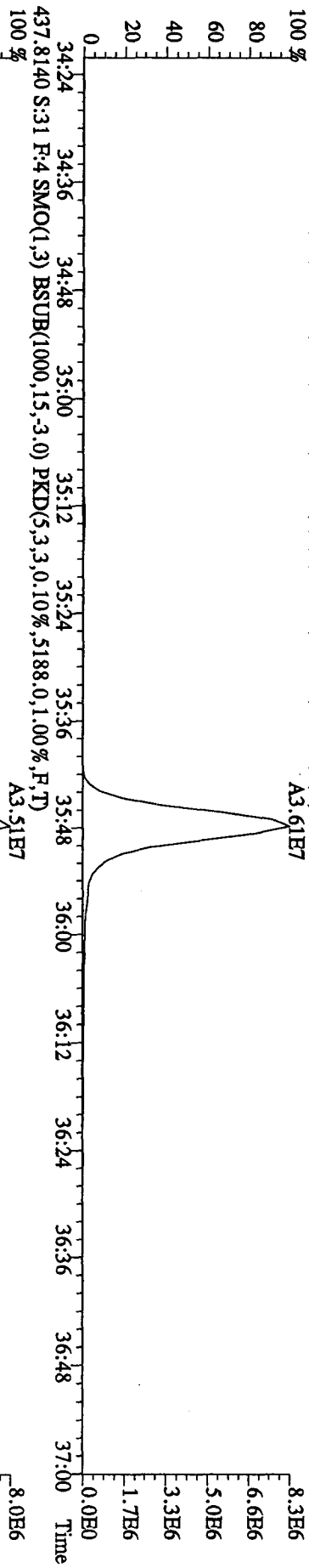
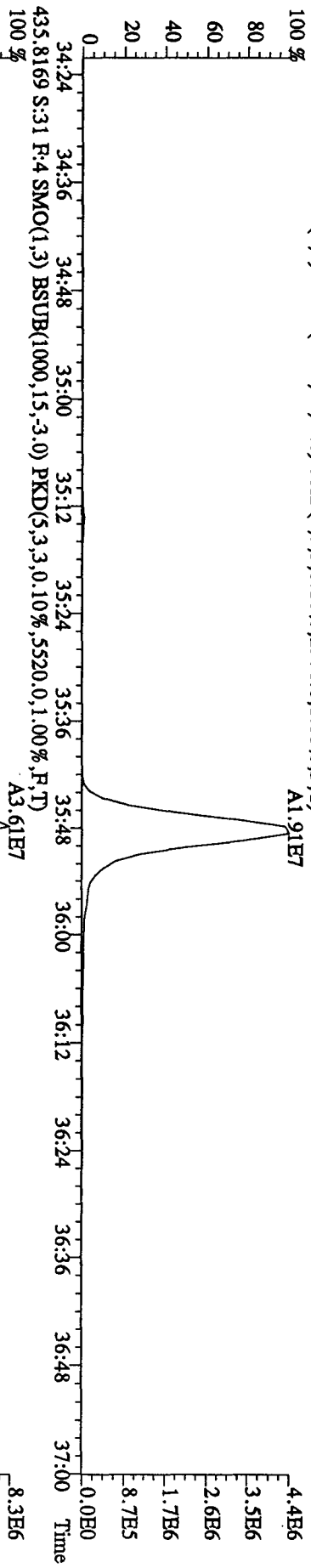
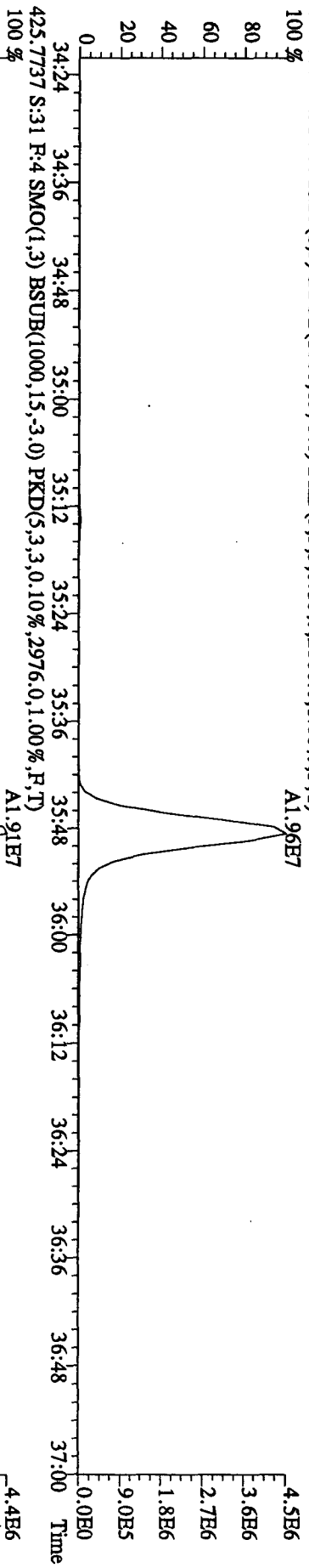
File:14OCT104D5 #1-286 Acq:15-OCT-2010 08:22:22 GC EI+ Voltage:STR Autospec-UltimaB  
 Sample#31 Text:ST1014C :CSS 10DXN461 Exp:DIOXINRES  
 389.8157 S:31 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1004.0,1.00%,F,T)



File:14OC104D5 #1-200 Acq:15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-Ultimate  
Sample#31 Text:ST1014C :CS3 10DXN461 Exp:DIOXINRES  
407.7818 S:31 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4552.0,1.00%,F,T)  
100%

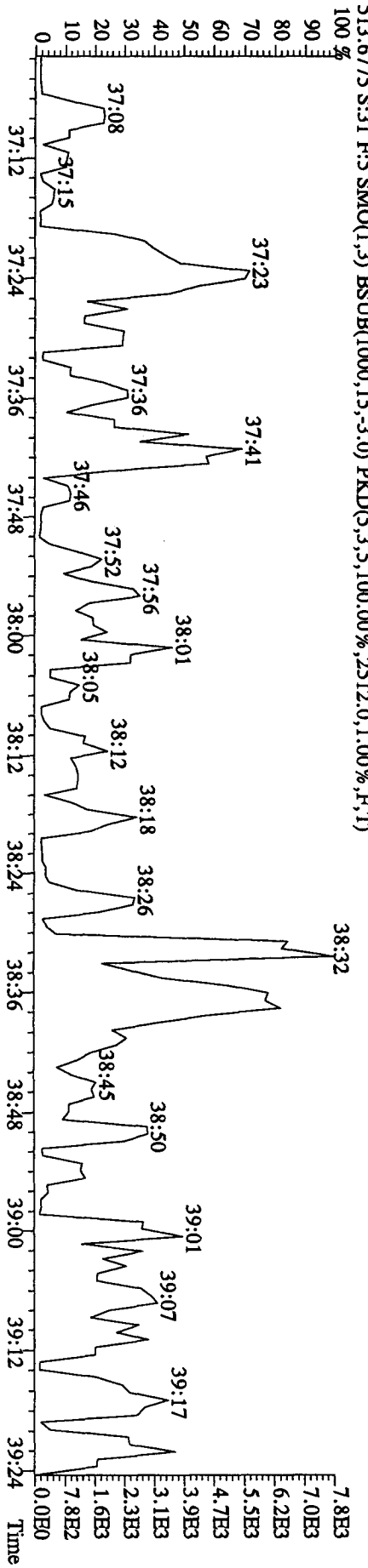
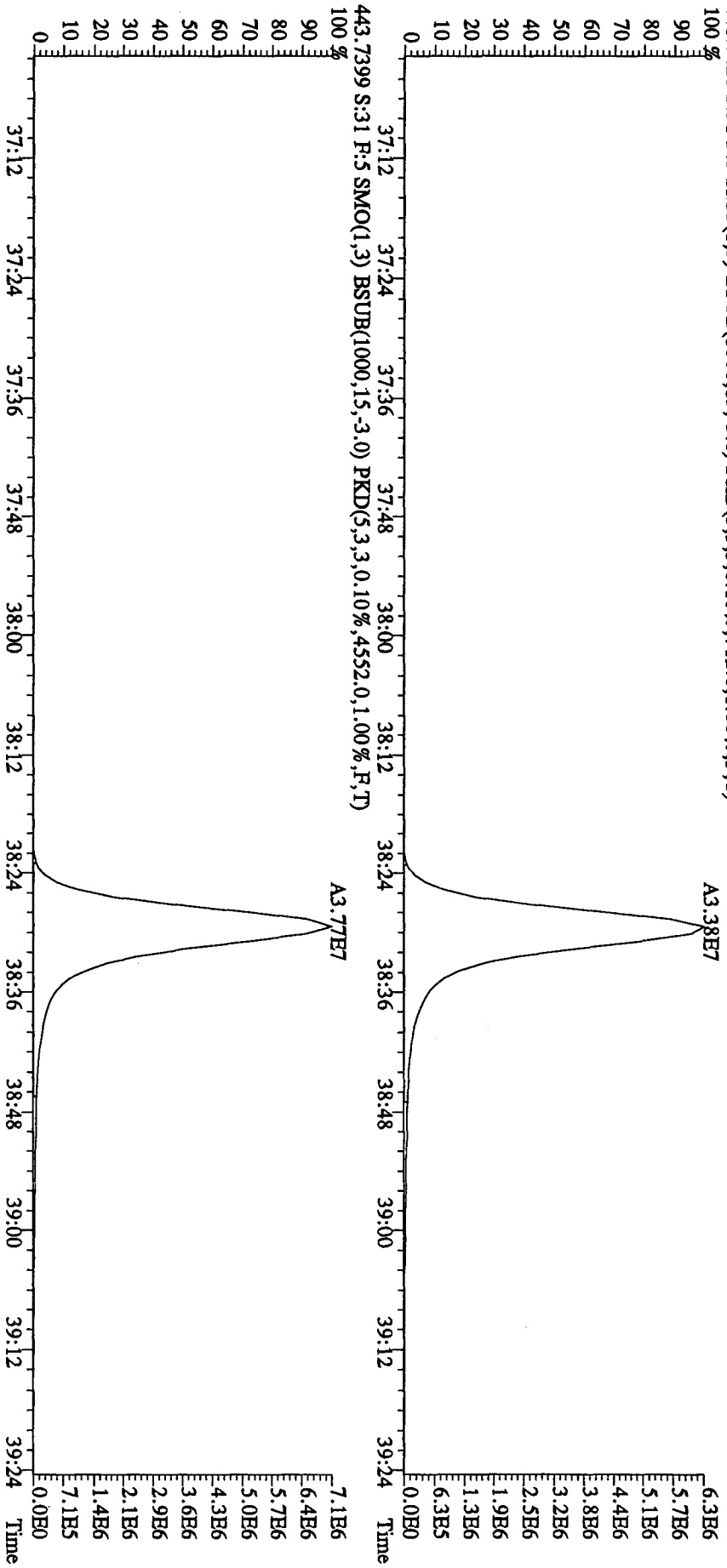


File:14OC104D5 #1-200 Acq:15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#31 Text:ST1014C :CS3 10DXN461 Exp:DIOXINRES  
 423.7766 S:31 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2800,0,1,00%,F,T)  
 100 %

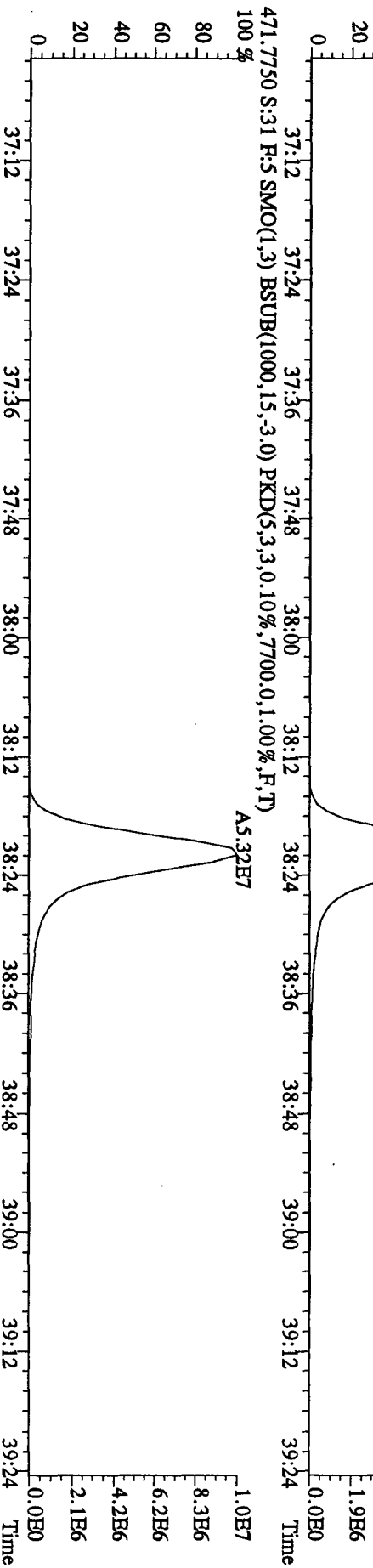
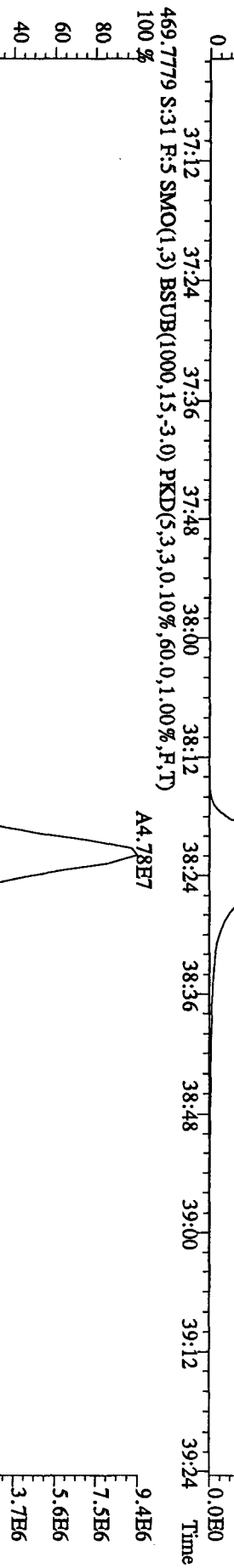
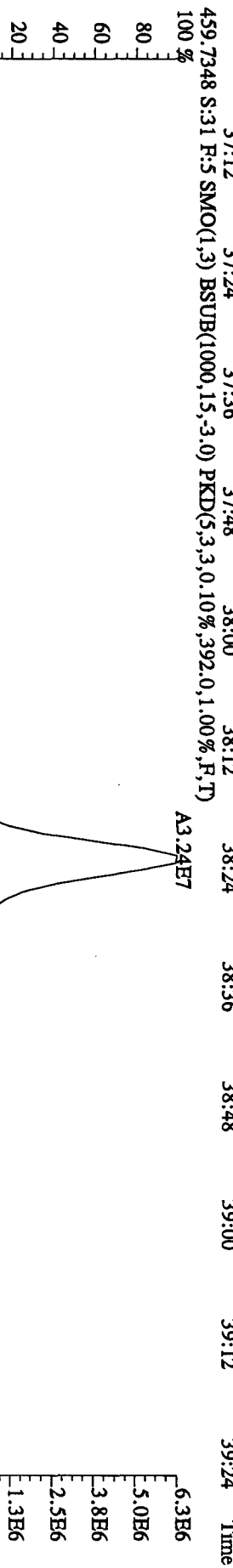
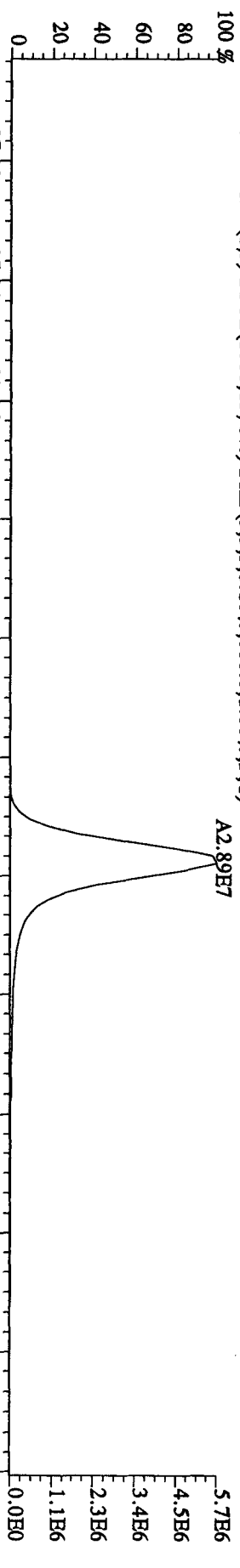




File:14OC104D5 #1-193 Acq:15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#31 Text:ST1014C :CS3 10DXN461 Exp:DIOXINRES  
 441.7428 S:31 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,712.0,1.00%,F,T)

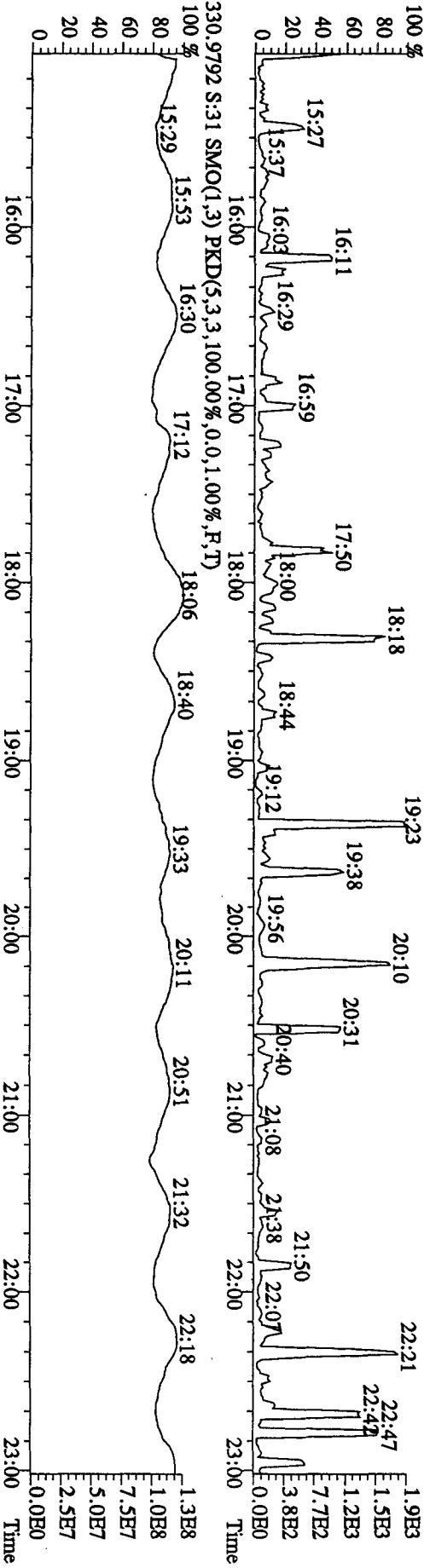
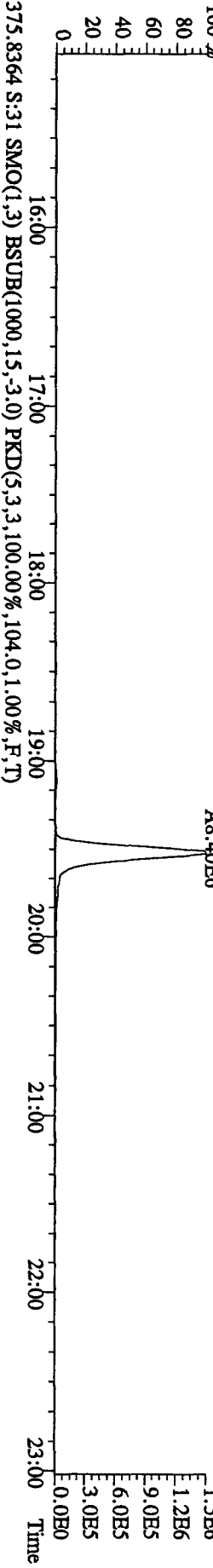
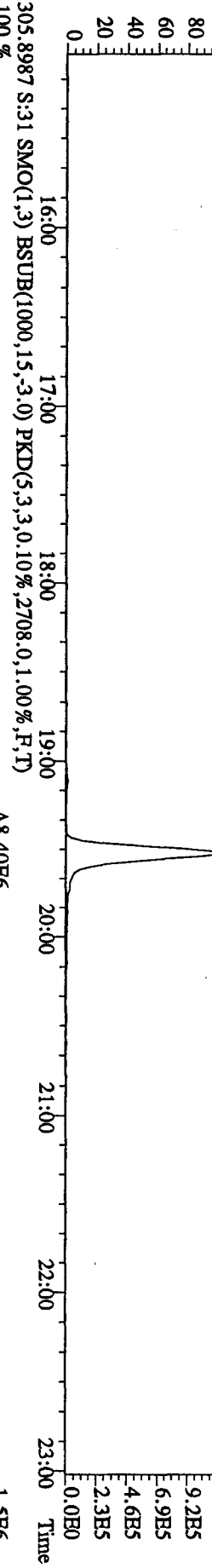
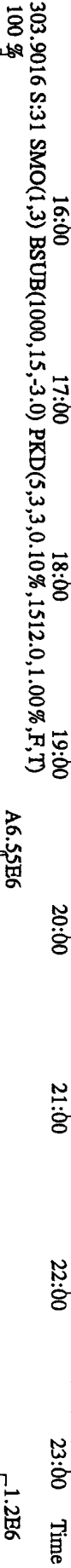
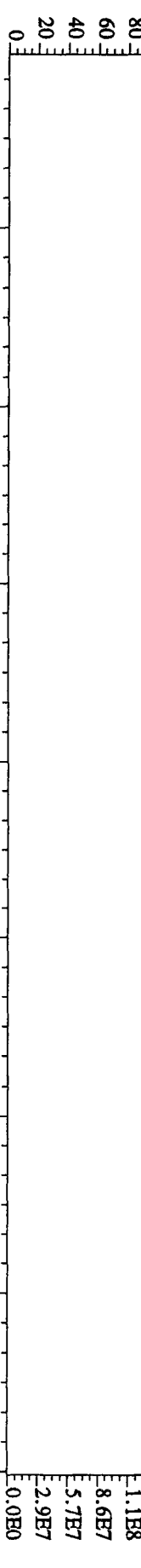


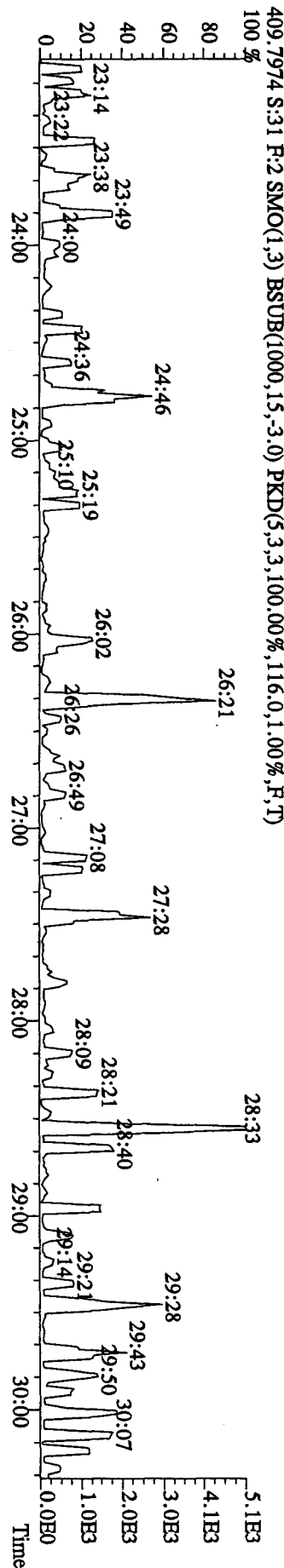
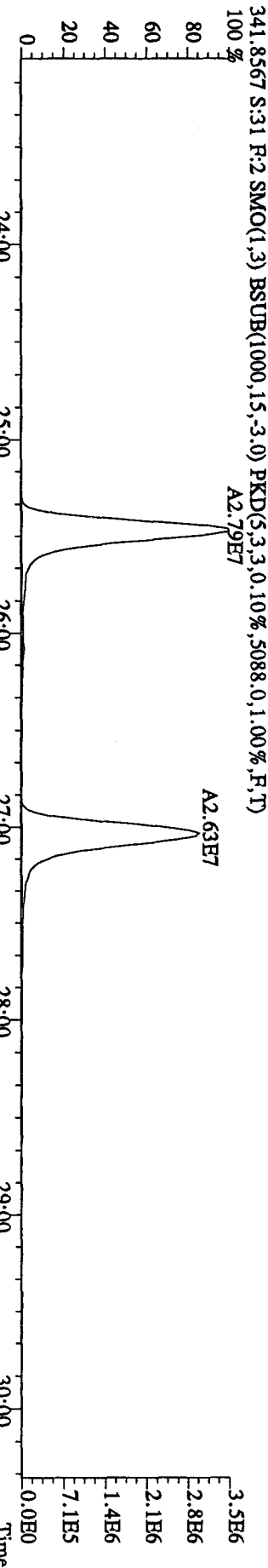
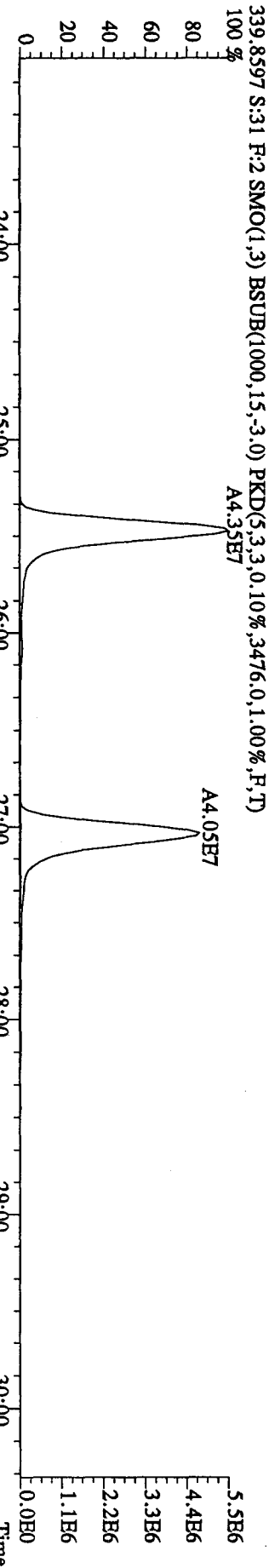
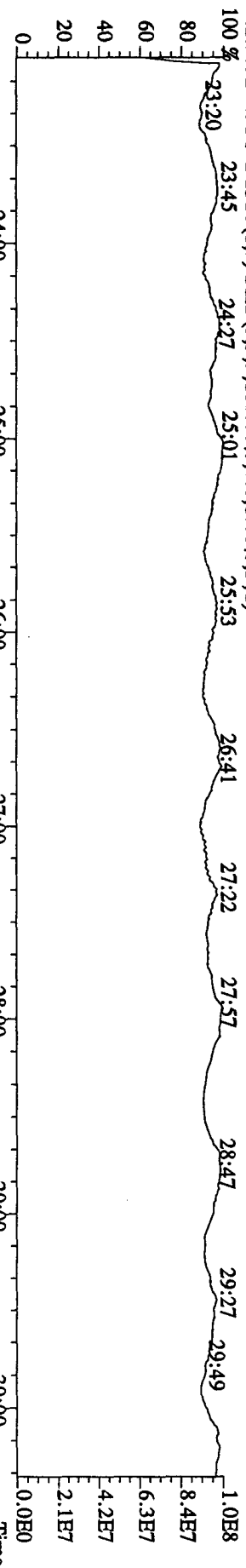
File:14OC104D5 #1-193 Acq:15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#31 Text:ST1014C :CS3 10DXN461 Exp:DIOXINRES  
 457.7377 S:31 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,808.0,1.00%,F,T)

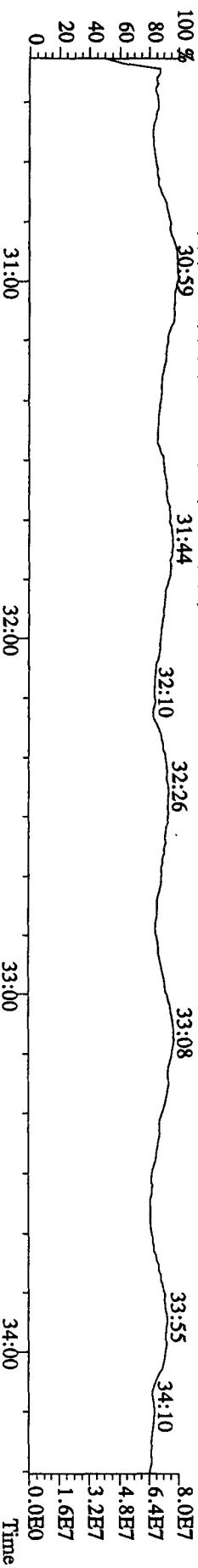
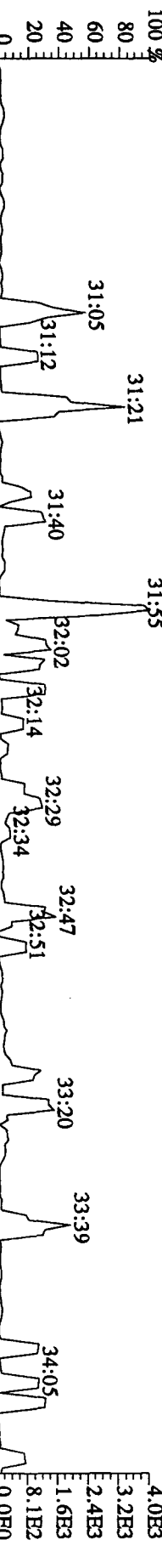
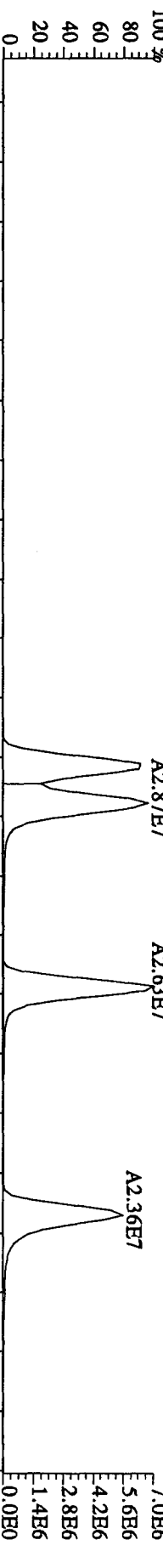
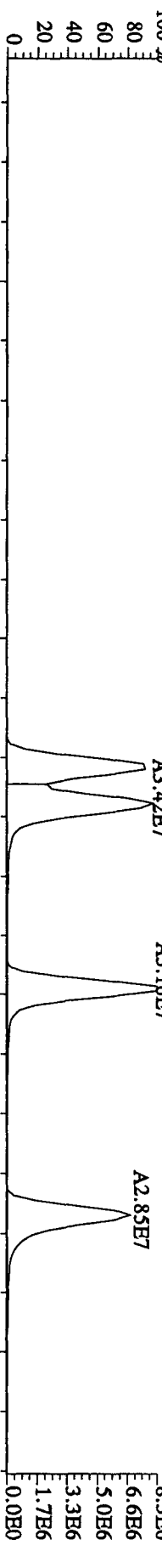
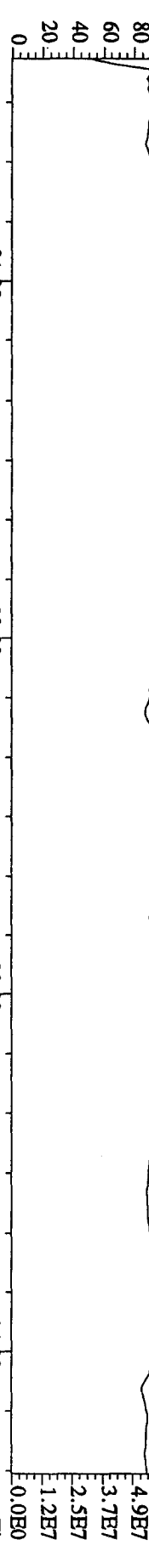


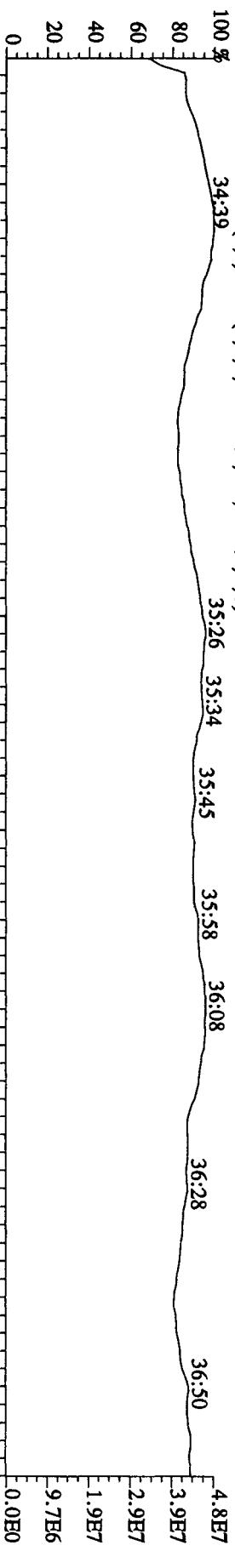
Sample#31 Text:ST1014C :CS3 10DXN461 Exp:DIOXINRES

292.9825 S:3:1 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)

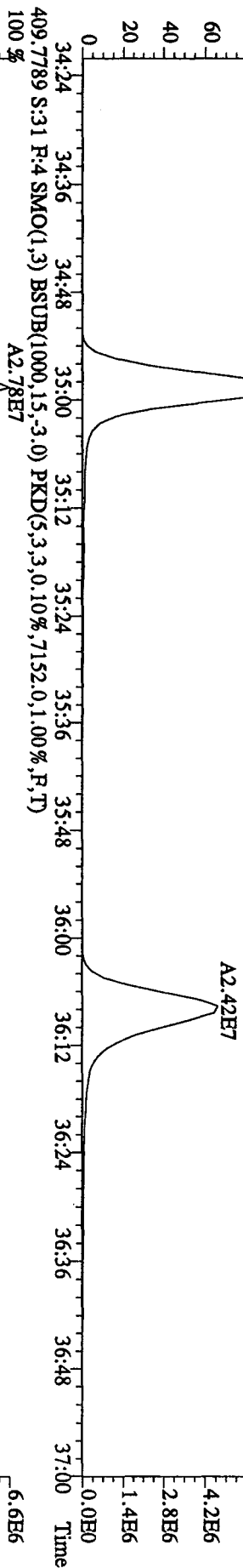




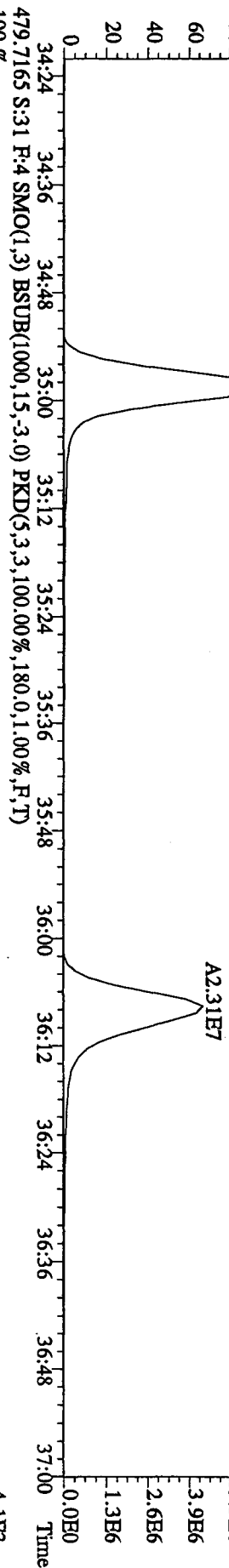




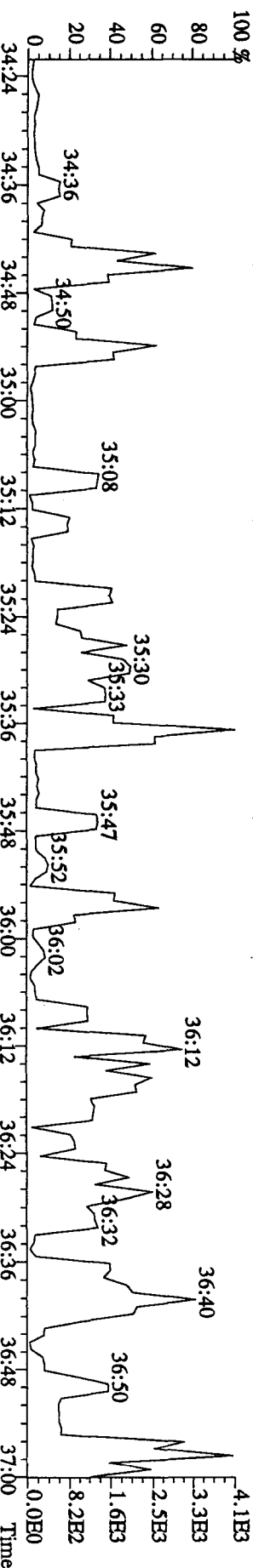
407.7818 S:31 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4552.0,1.00%,F,T)  
100% A2.91E7



409.7789 S:31 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7152.0,1.00%,F,T)  
100% A2.78E7

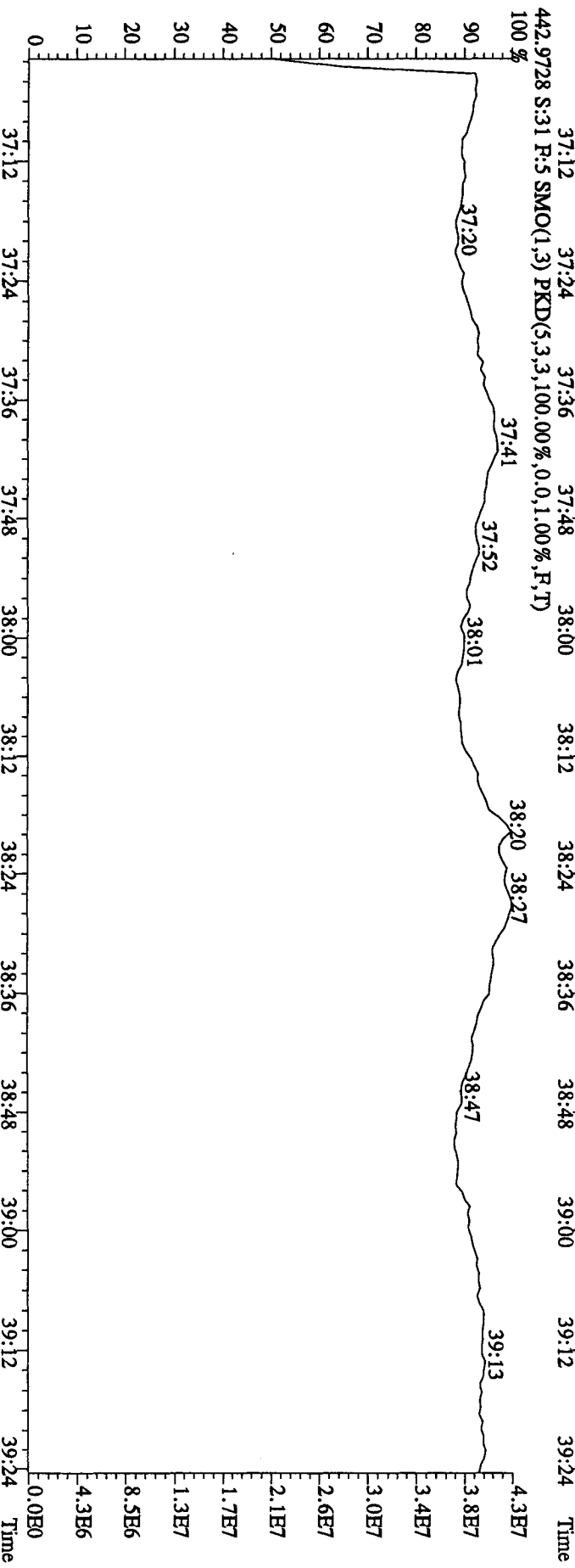
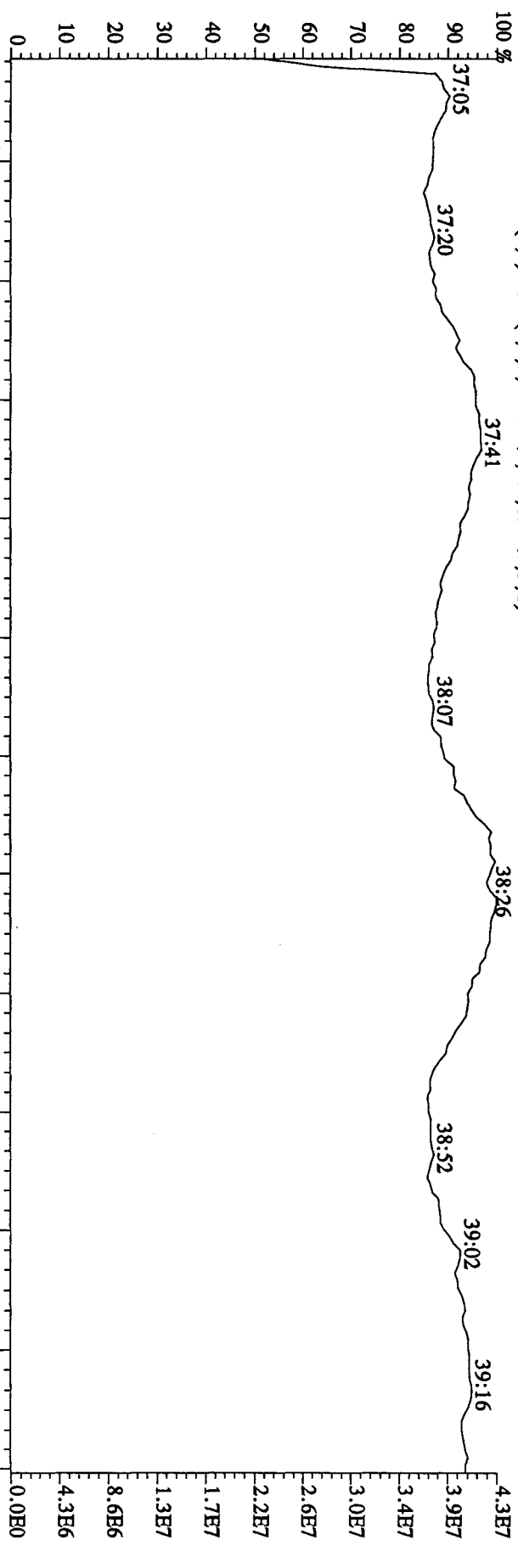


479.7165 S:31 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,180.0,1.00%,F,T)  
100%

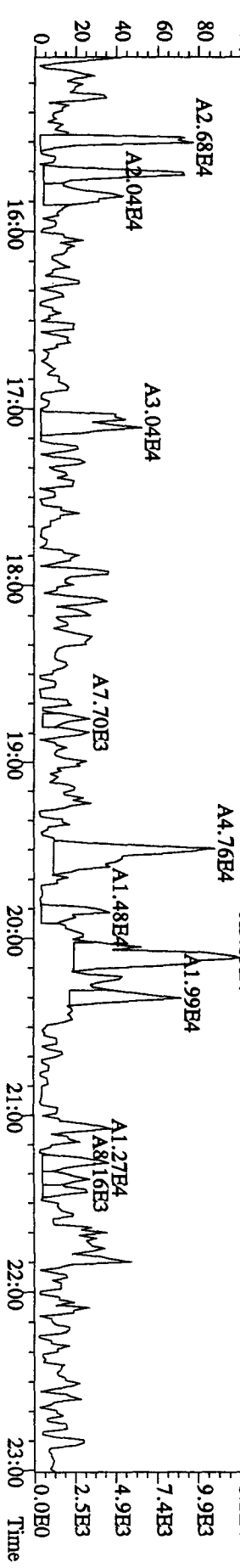
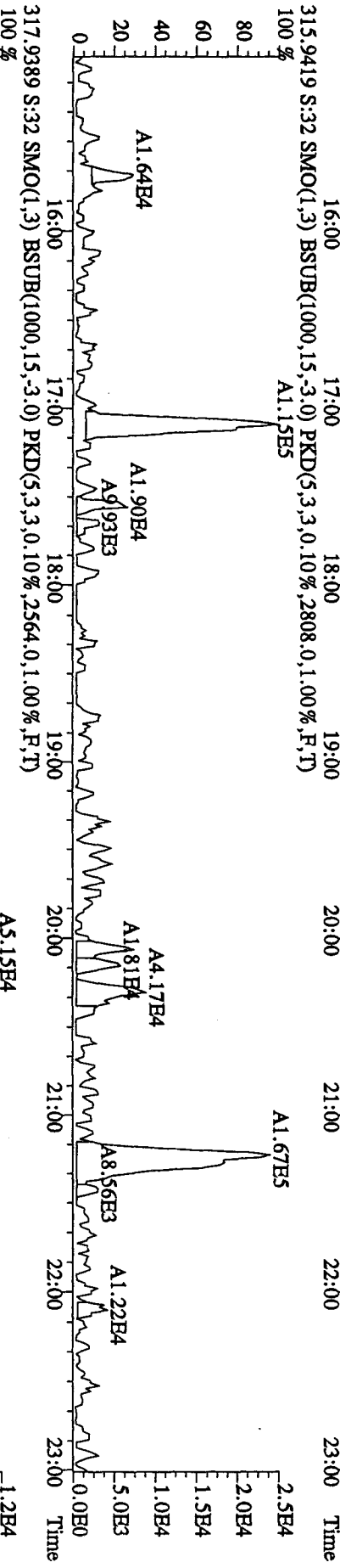
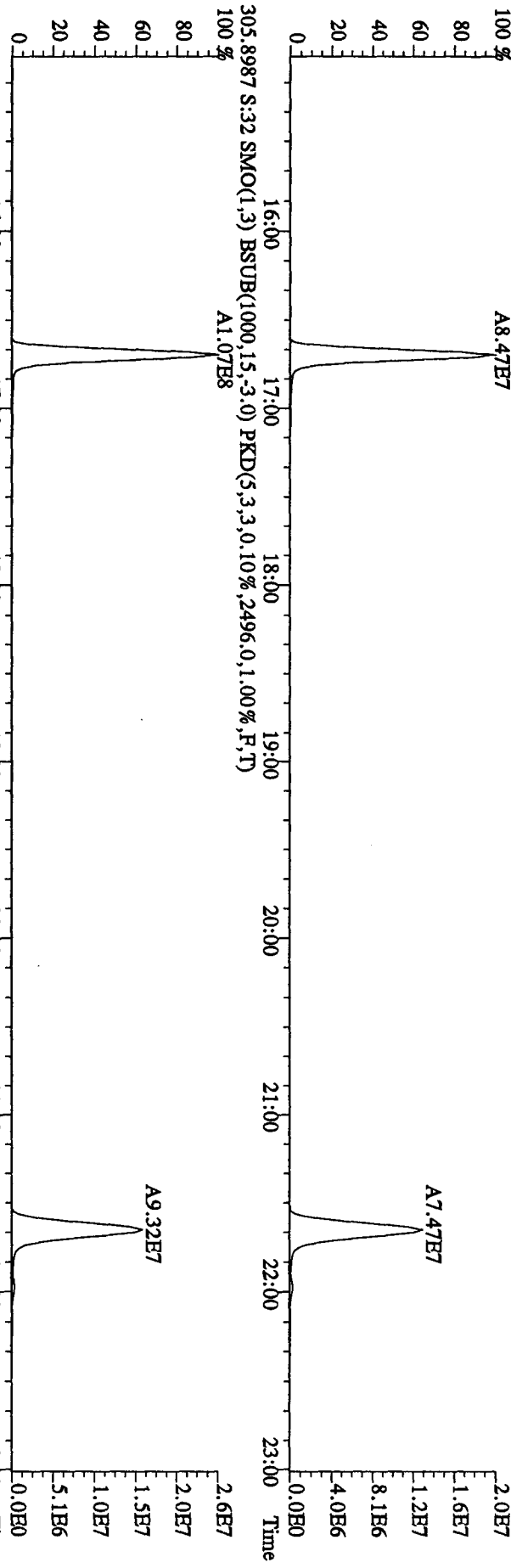


0.0E0  
4.1E3  
3.3E3  
2.5E3  
1.6E3  
8.2E2  
0.0E0

File: 14OC104D5 #1-193 Acq: 15-OCT-2010 08:22:22 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#31 Text: ST1014C :CS3 10DXN461 Exp: DIOXINRES  
 454.9728 S:31 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

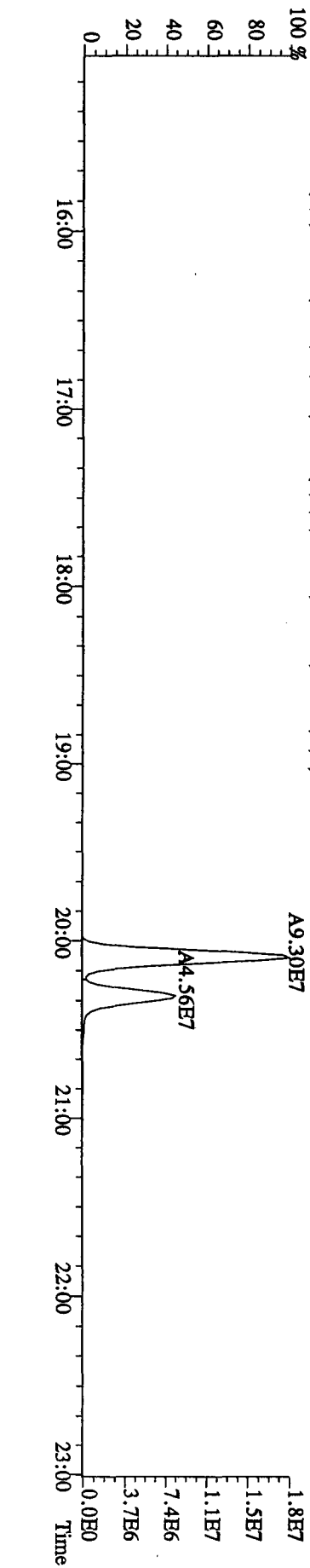
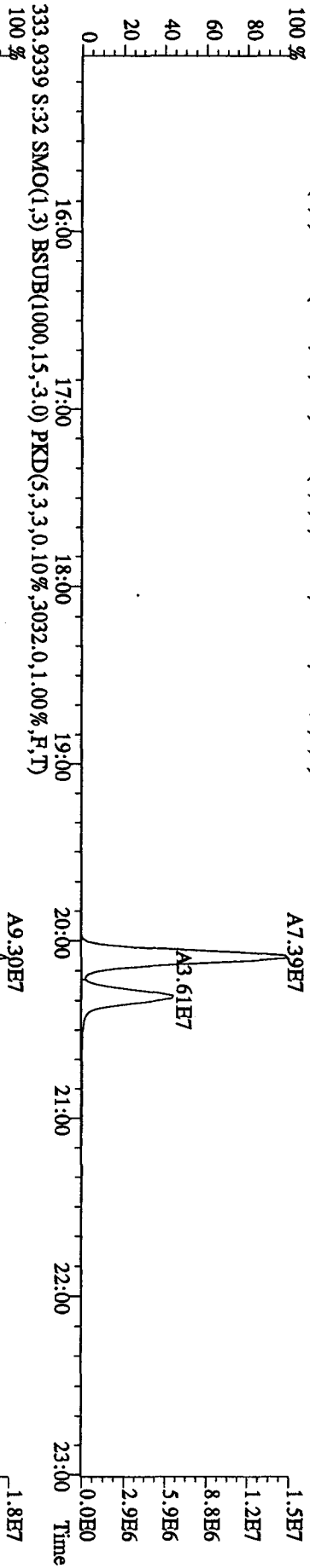
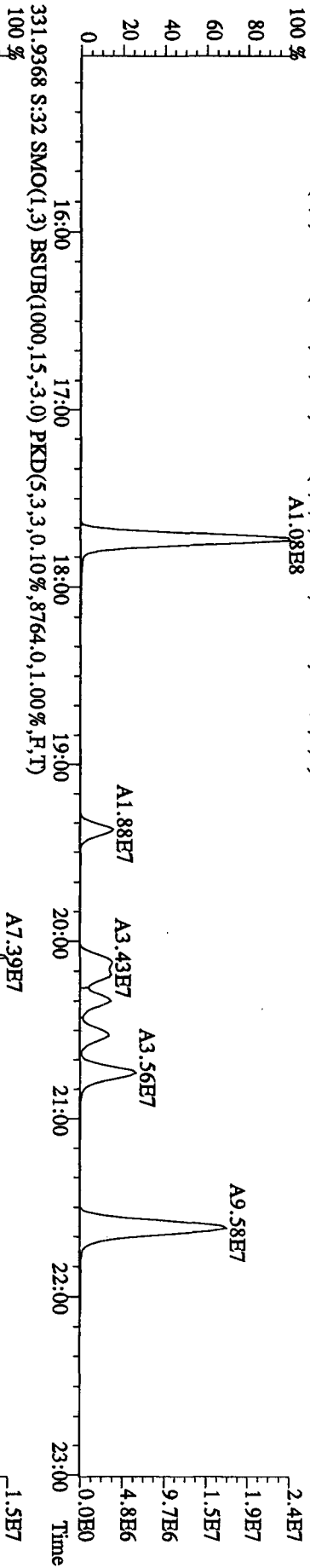
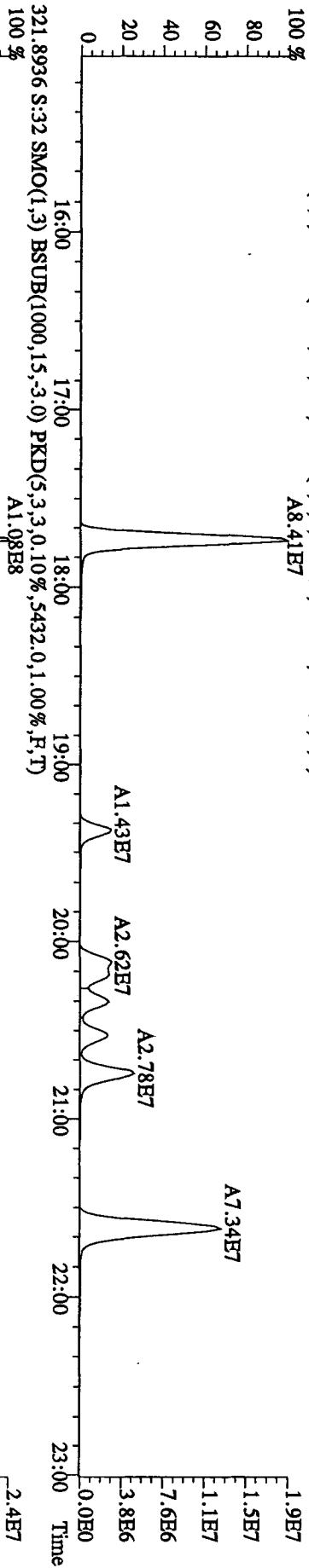


File: 14OC104D5 #1-530 Acq: 15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#32 Text: CP1014B :DB-5 CP5M 3732-09 Exp: DIOXINRES  
 303.9016 S:32 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2680.0,1.00%,F,T)  
 100% A8.47E7

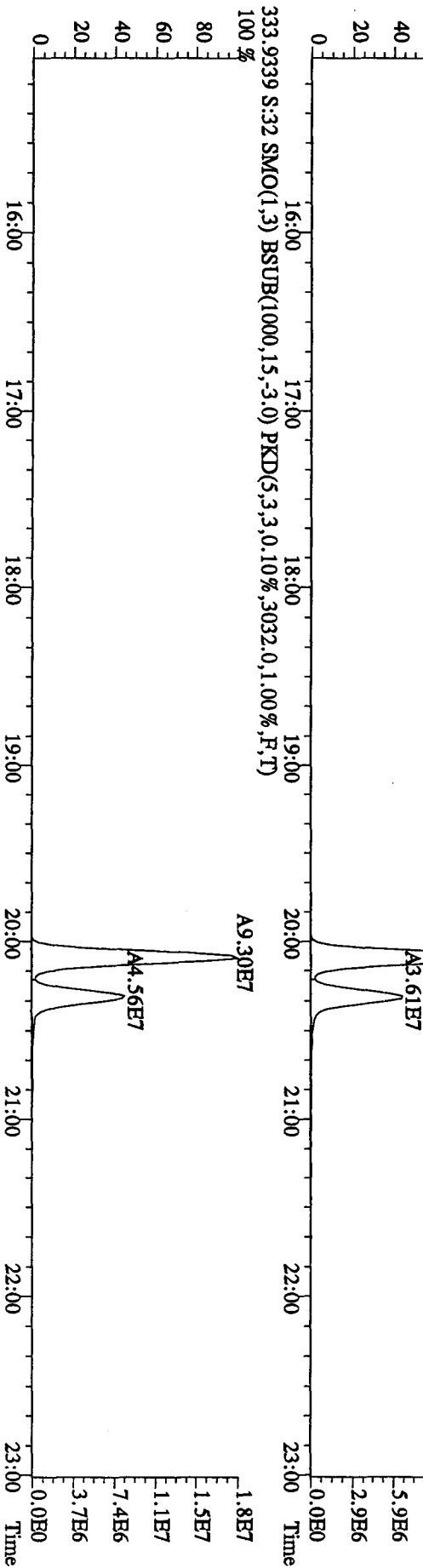
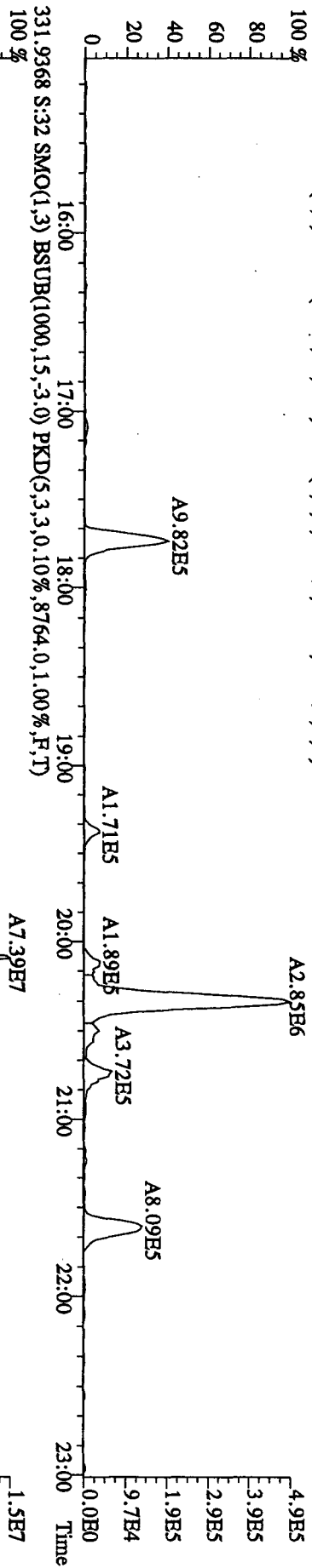
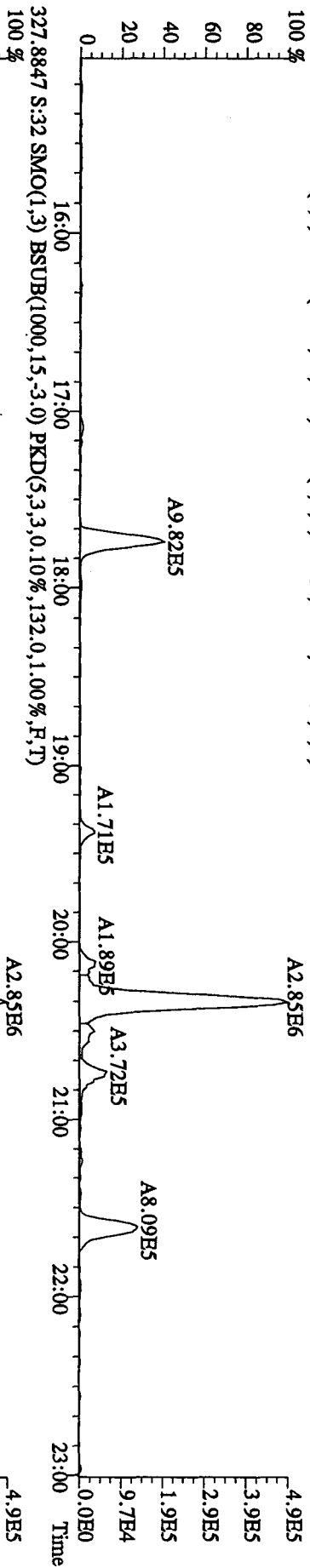




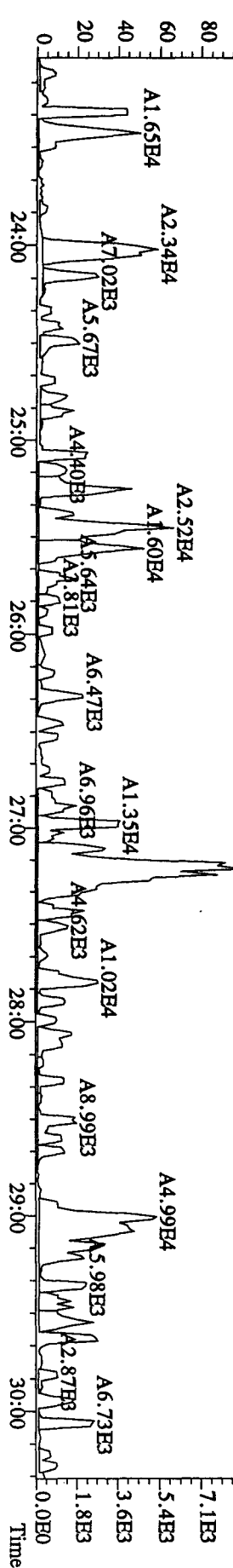
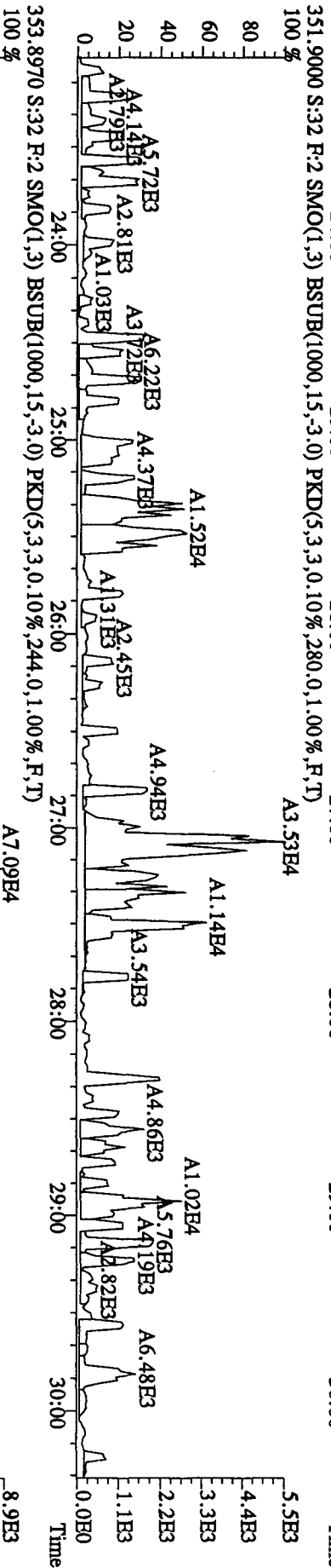
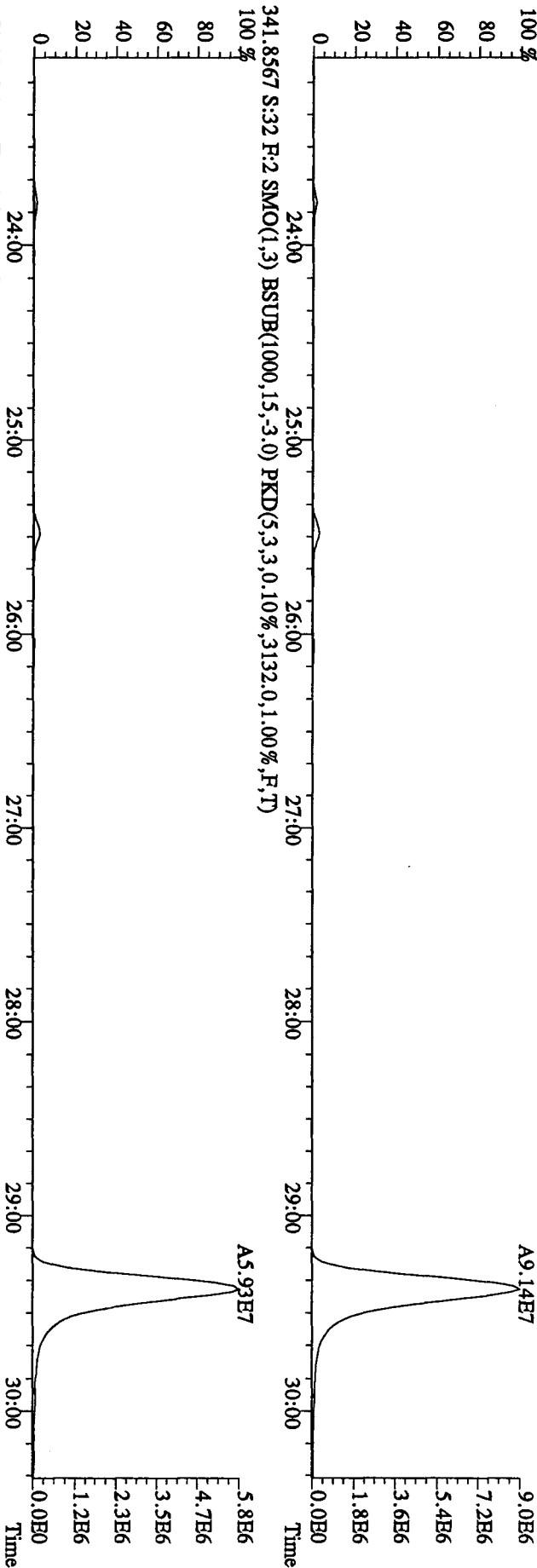
File:14OC104D5 #1-530 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#32 Text:CP1014B :DB-5 CPSM 3732-09 Exp:DIOXINRES  
 319.8965 S:32 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5500.0,1.00%,F,T)  
 100% A8.41E7



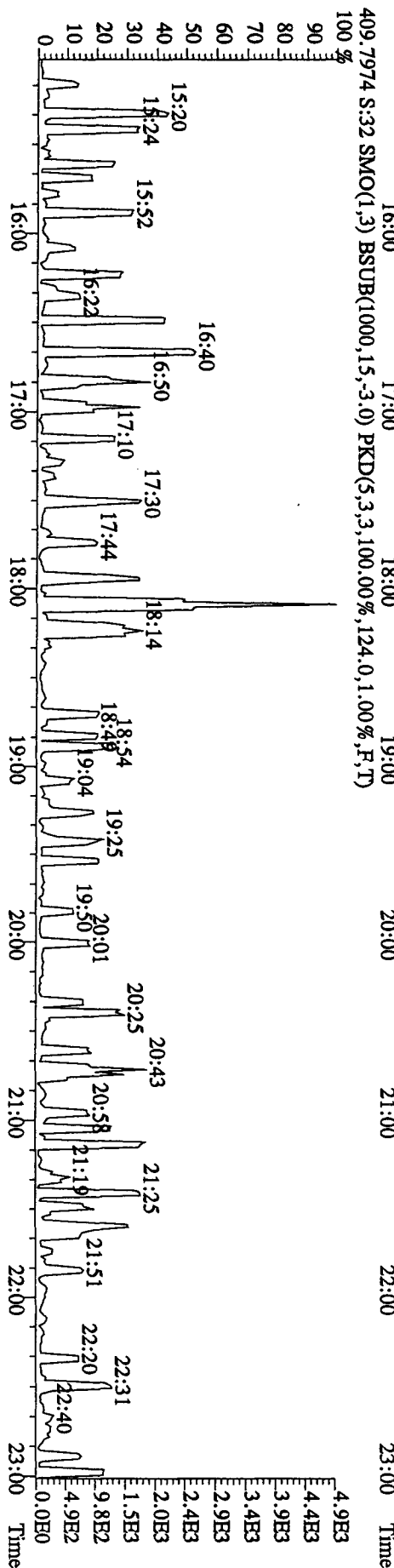
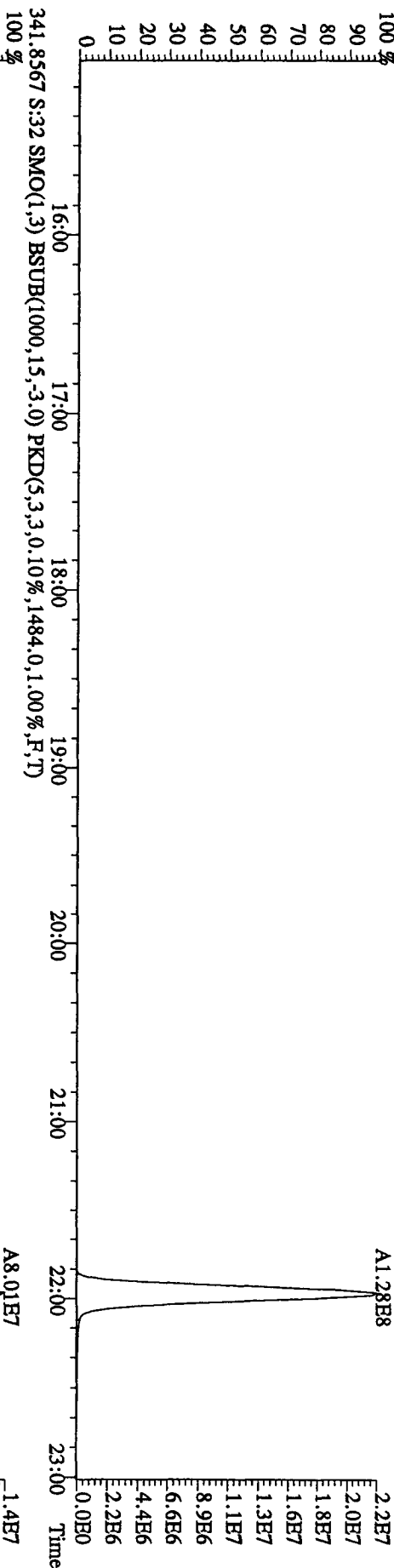
File:14OC104D5 #1-530 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#32 Text:CP1014B :DB-5 CP5M 3732-09 Exp:DIOXINRES  
 327.8847 S:32 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,132.0,1.00%,F,T) 100 %



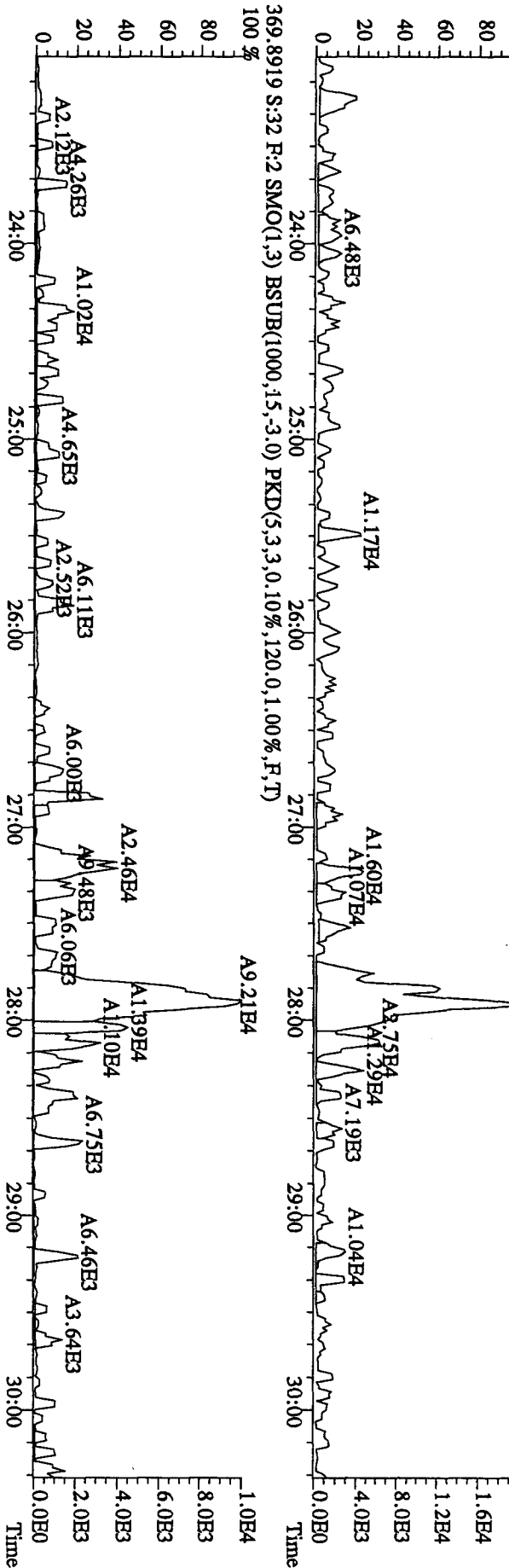
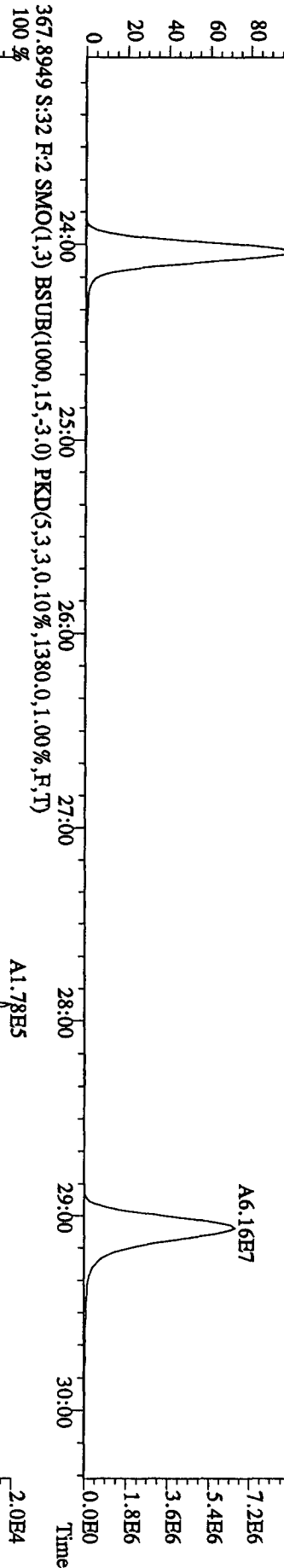
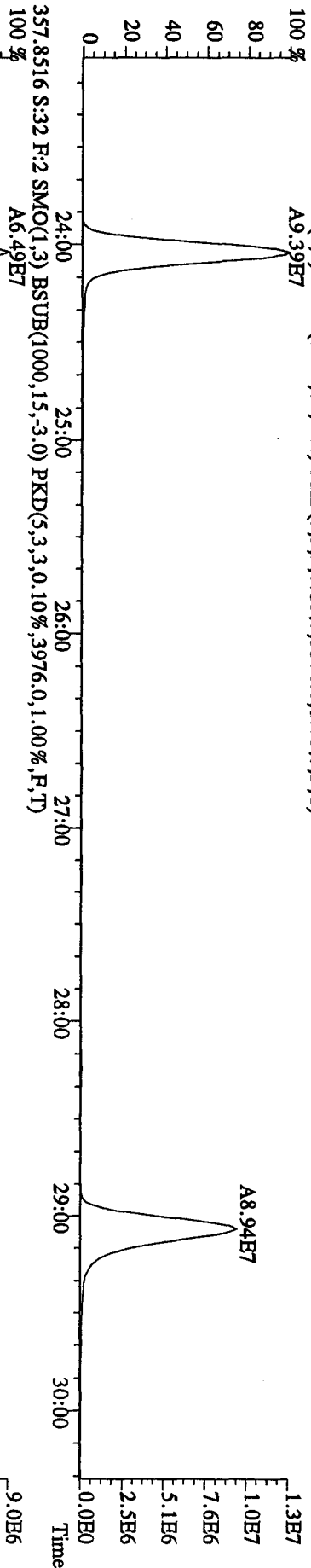
File:140C104D5 #1-470 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#32 Text:CP1014B :DB-5 CPSM 3732-09 Exp:DIOXINRES  
 339.8597 S:32 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3972.0,1.00%,F,T)



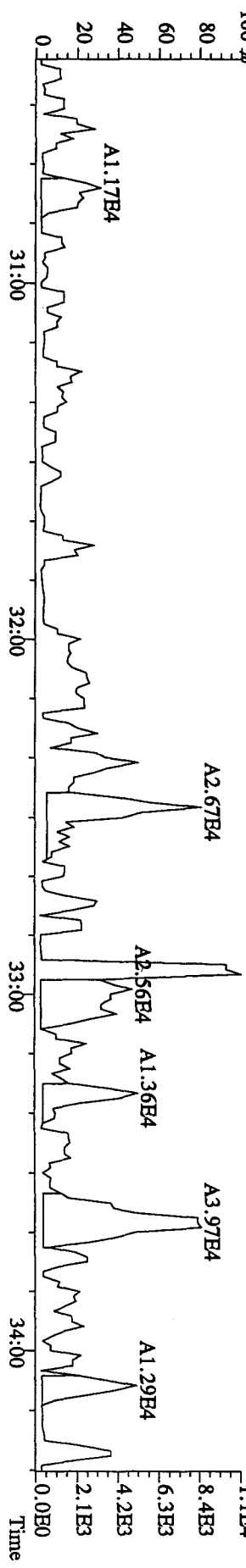
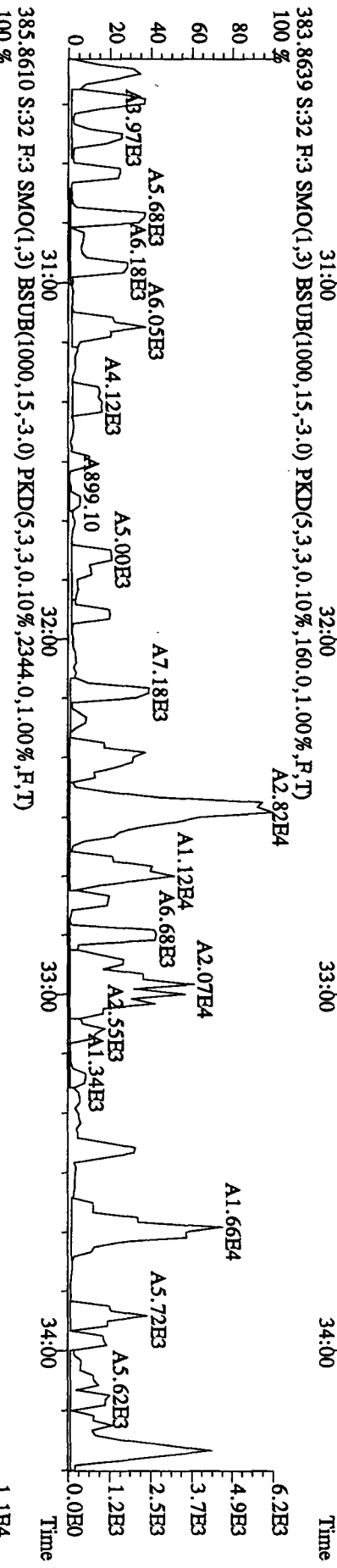
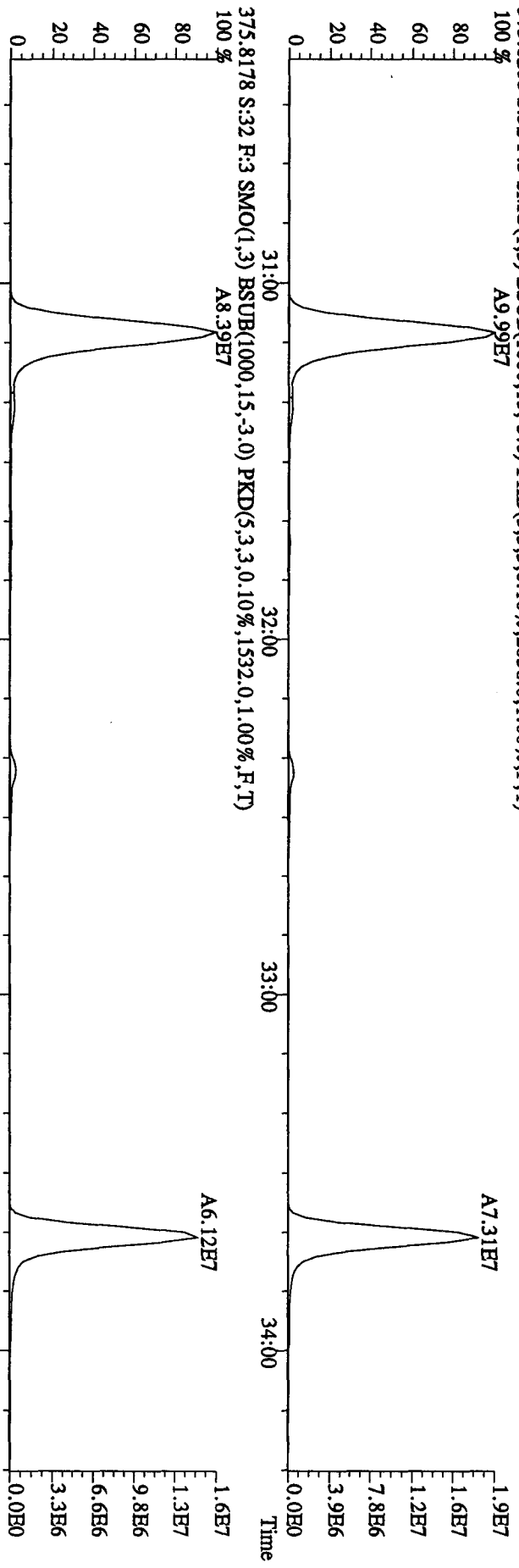
File: 14OC104D5 #1-530 Acq: 15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#32 Text: CP1014B :DB-5 CPSM 3732-09 Exp: DIOXINRES  
 339.8597 S:32 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)



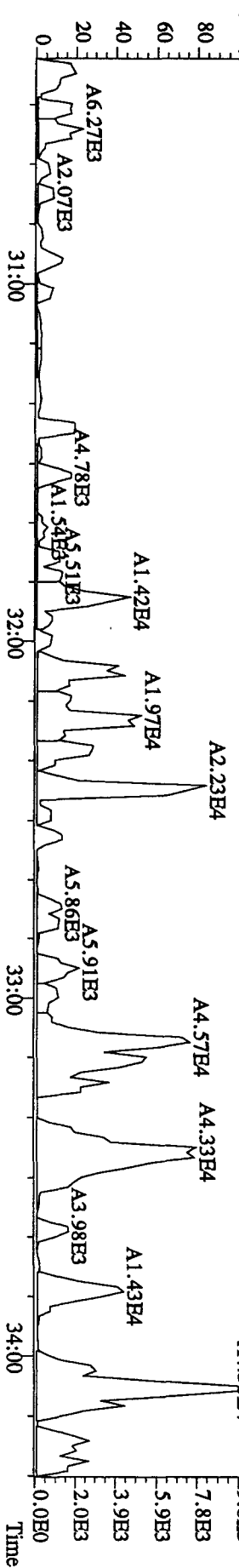
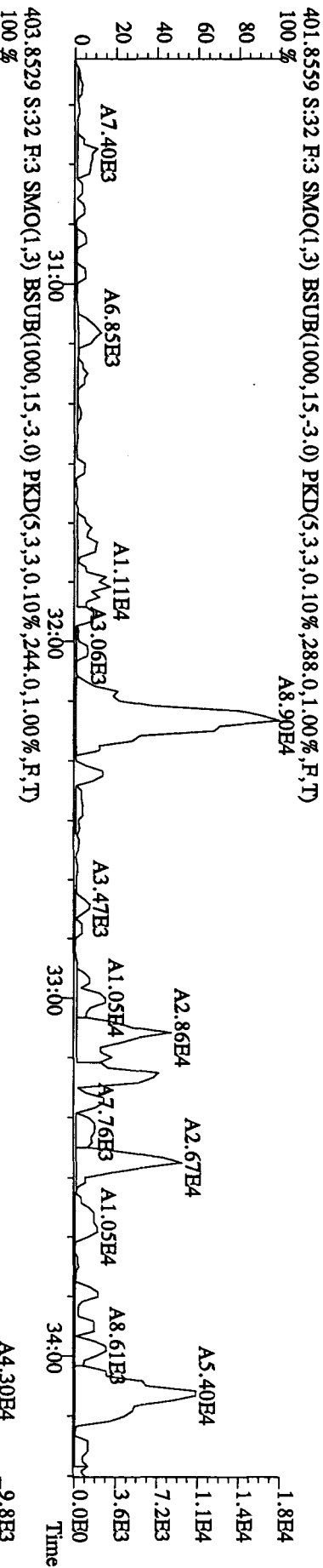
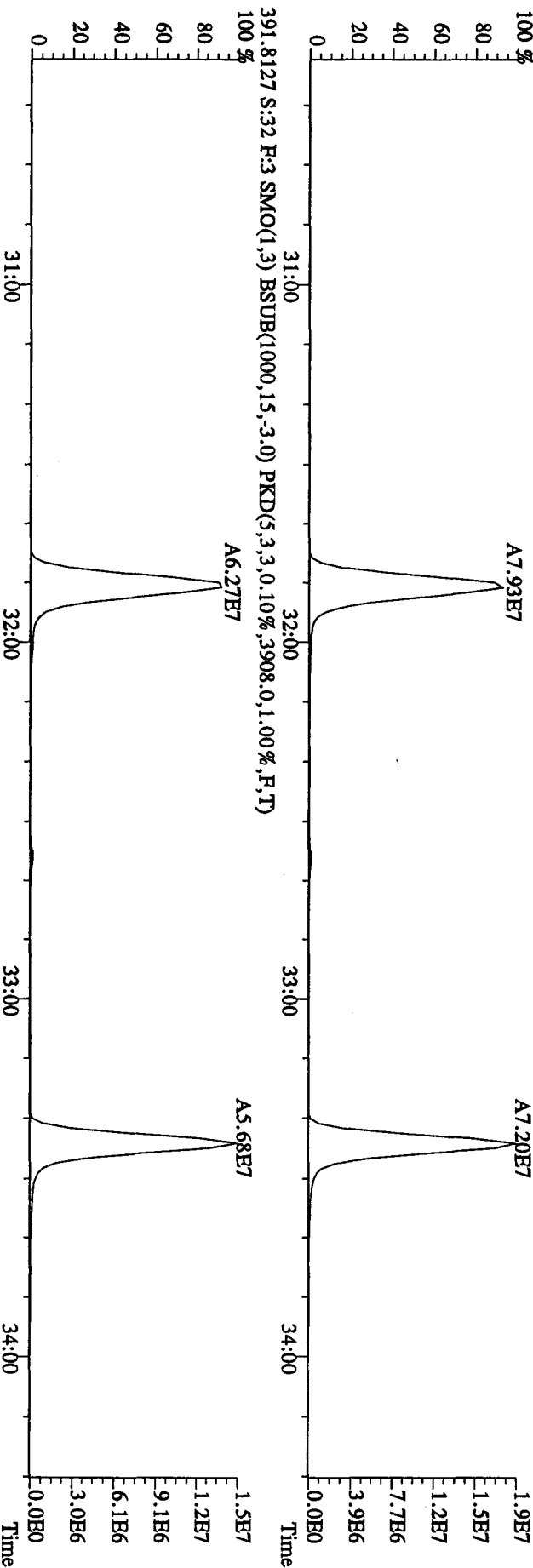
File: 14OC104D5 #1-470 Acq: 15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#32 Text: CP1014B :DB-5 CP5M 3732-09 Exp: DIOXINRES  
 357.8546 S:32 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5576.0,1.00%,F,T)



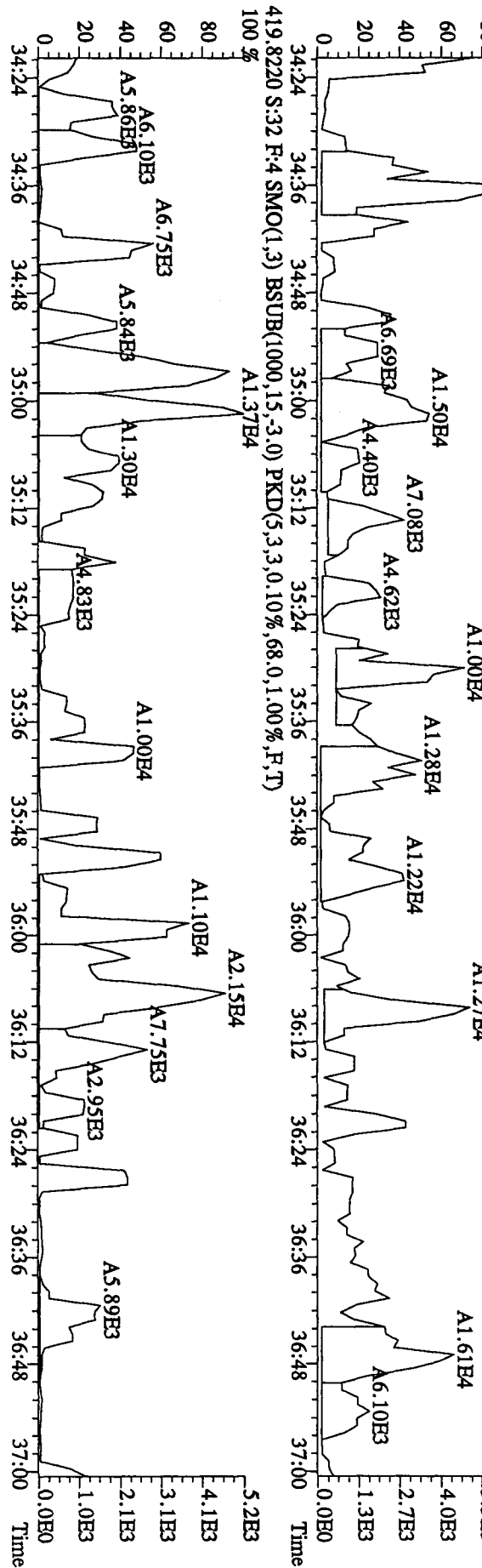
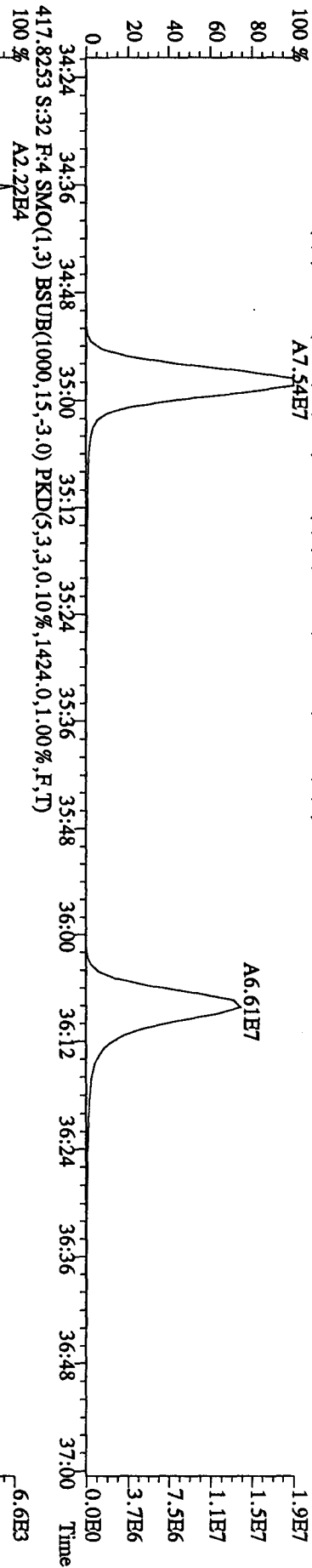
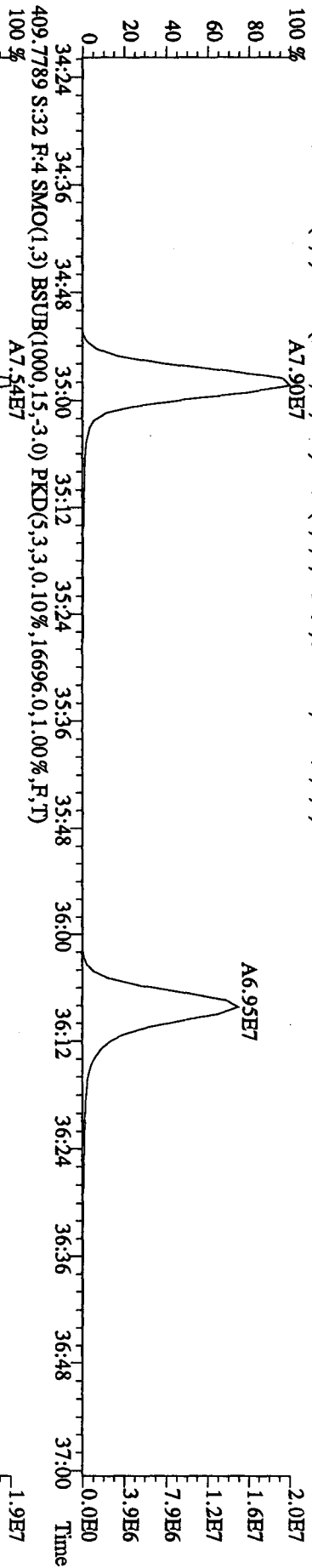
File:14OC104D5 #1-286 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#32 Text:CP1014B :DB-5 CP5M 3732-09 Exp:DIOXINRES  
 373.8208 S:32 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2056.0,1.00%,F,T)  
 100%



File: 14OC104D5 #1-286 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#32 Text:CP1014B :DB-5 CPM 3732-09 Exp:DIOXINRES  
 389.8157 S:32 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4648.0,1.00%,F,T)  
 100%

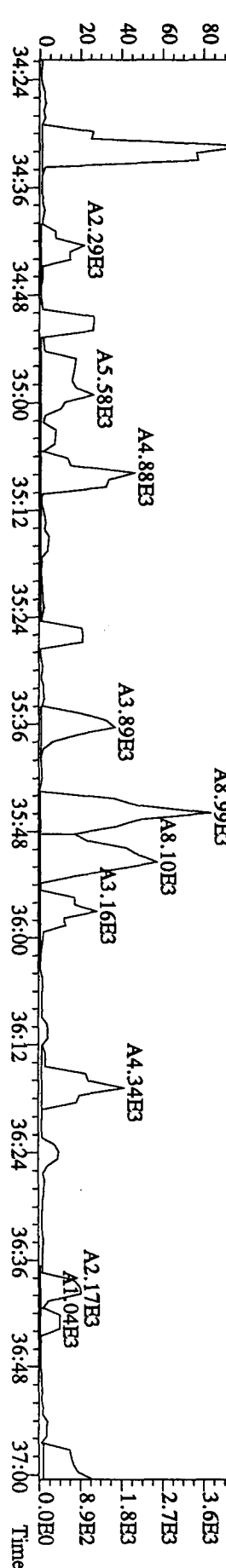
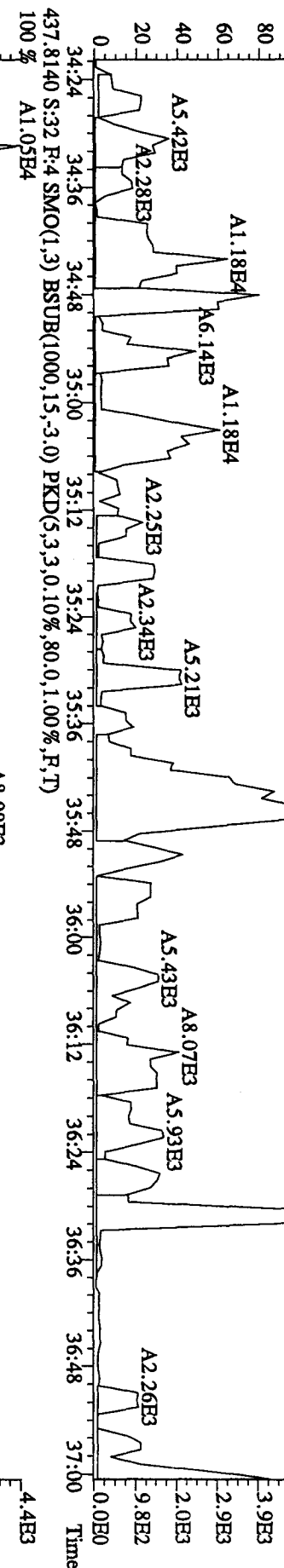
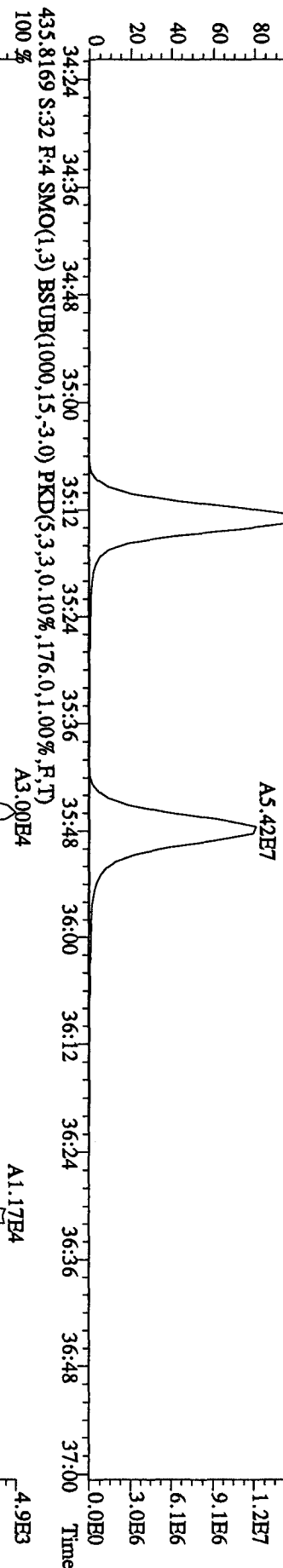
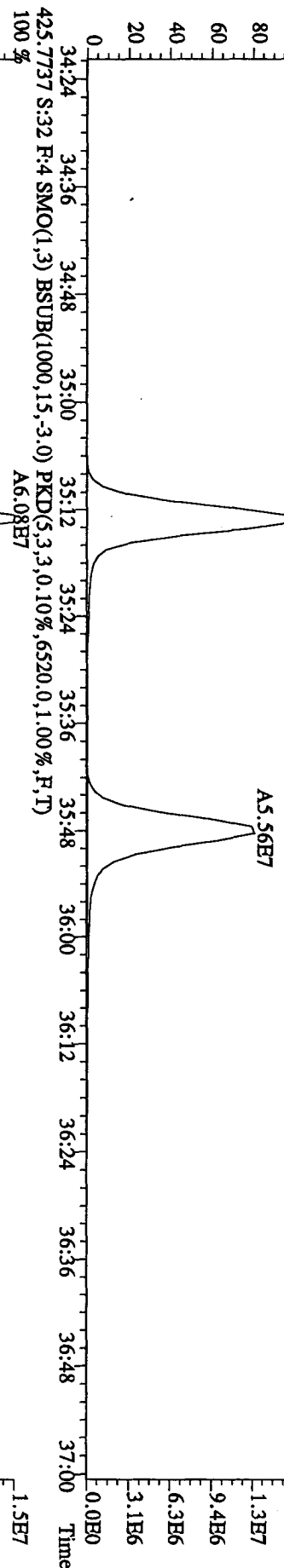


File: 14OC104D5 #1-201 Acq: 15-OCT-2010 09:07:00 GC: EI+ Voltage: SIR Autospec-UltimaB  
 Sample#32 Text: CP1014B :DB-5 CP5M 3732-09 Exp: DIOXINRES  
 407.7818 S:32 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,18188.0,1.00%,F,T)

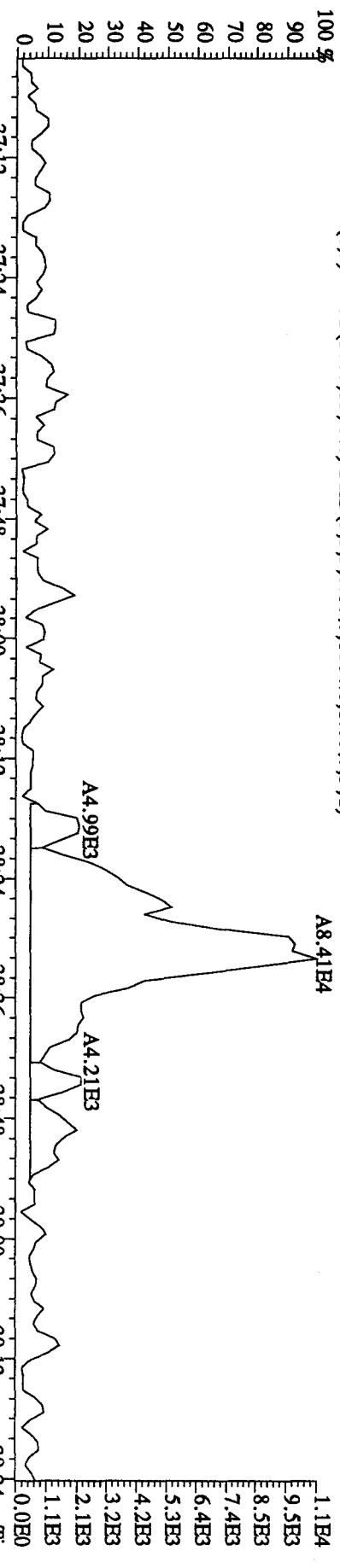




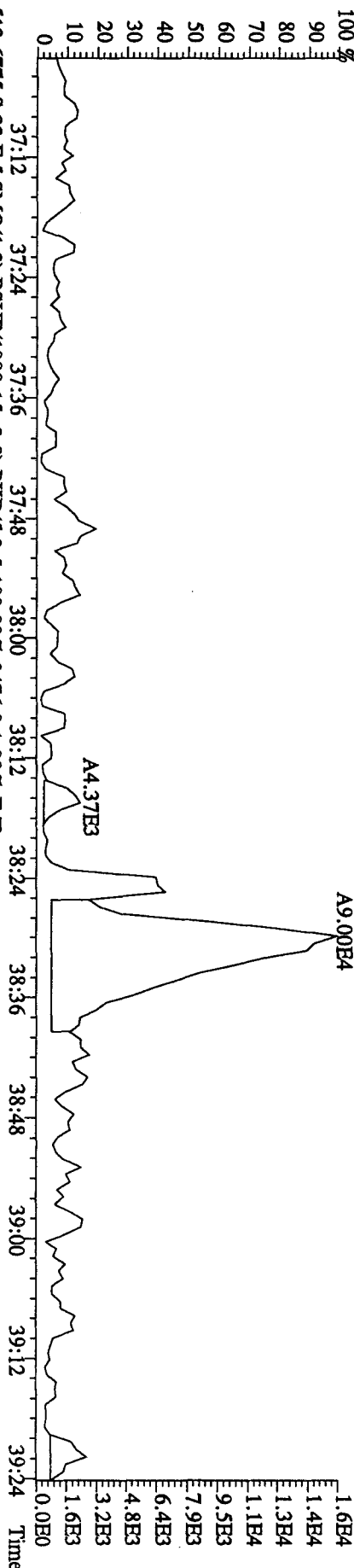
File:14OC104D5 #1-201 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-UtimaB  
 Sample#32 Text:CP1014B :DB-5 CP5M 3732-09 Exp:DIOXINRES  
 423.7766 S:32 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7540.0,1.00%,F,T)



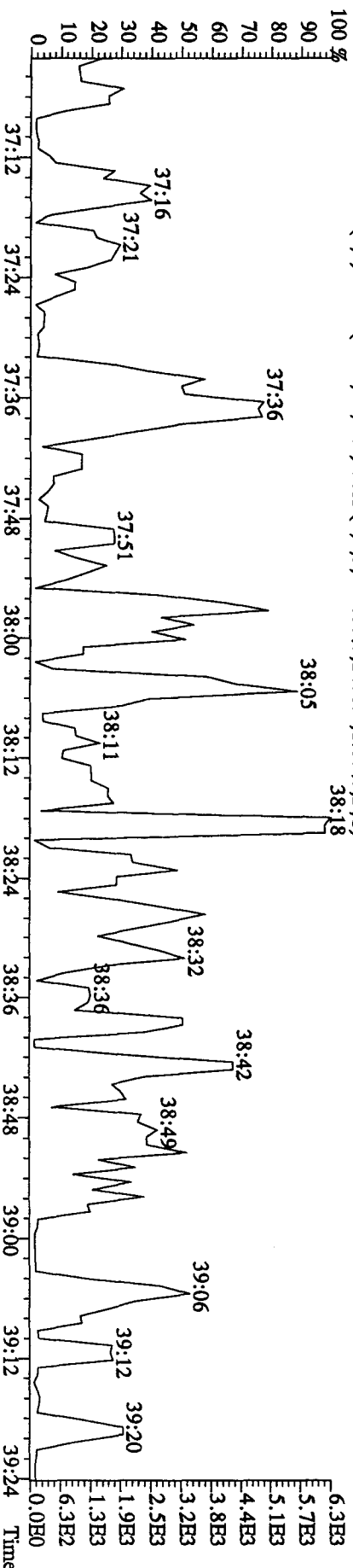
File: 140C104D5 #1-192 Acq: 15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#32 Text: CP1014B :DB-5 CP5M 3732-09 Exp: DIOXINRES  
 441.7428 S:32 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1004,0,1,00%,F,T)



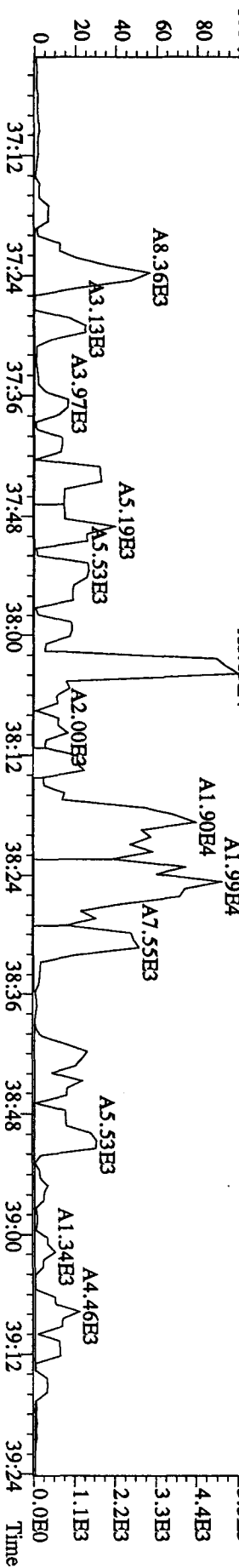
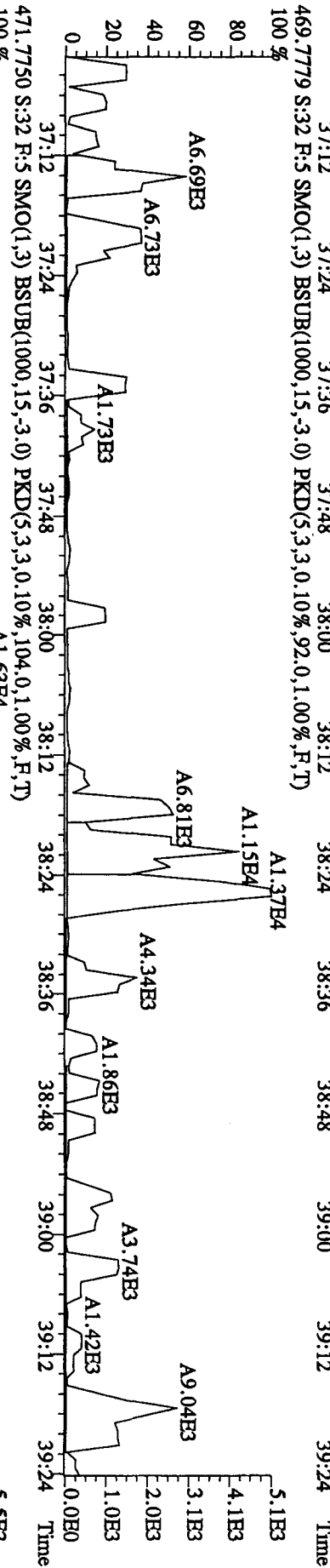
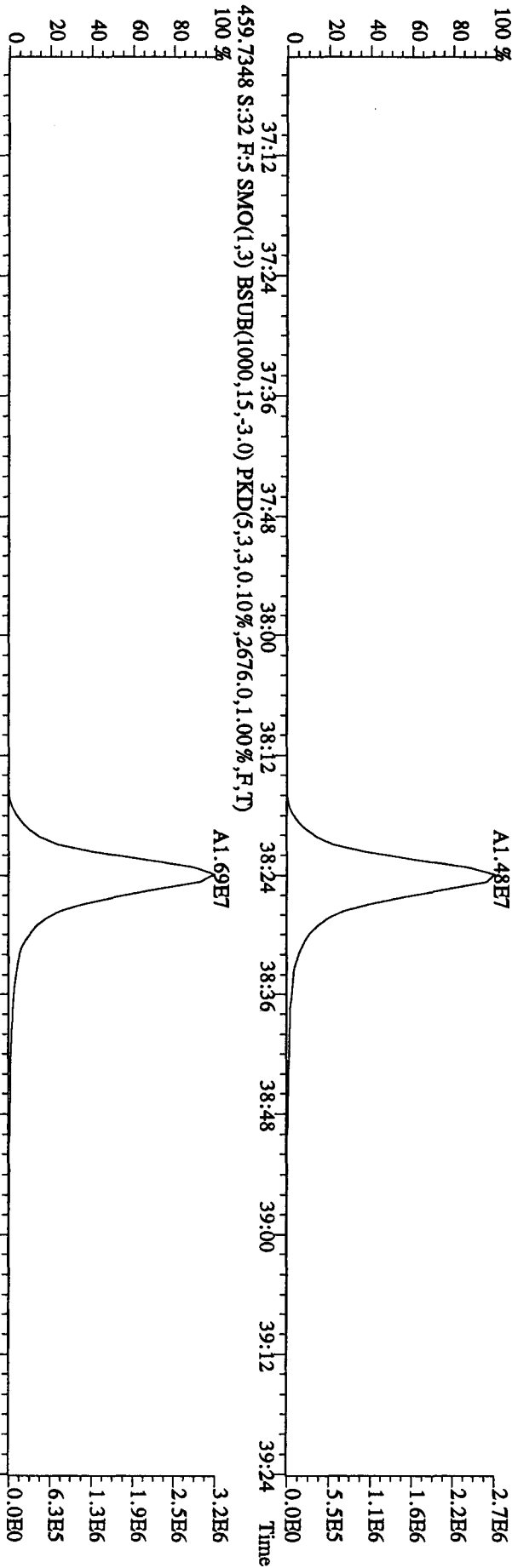
443.7399 S:32 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1528,0,1,00%,F,T)

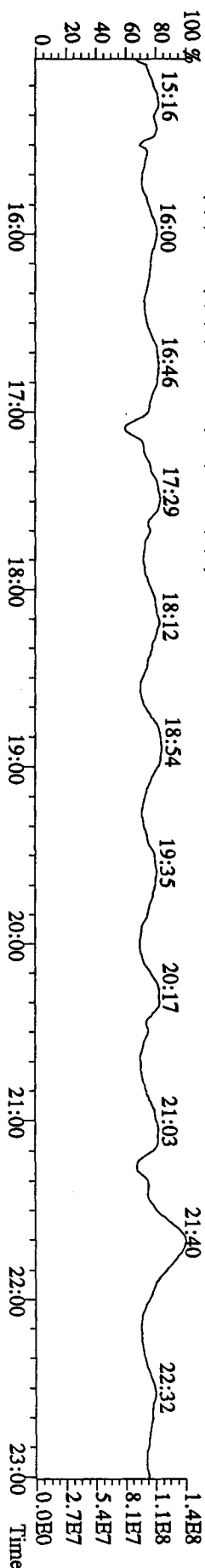
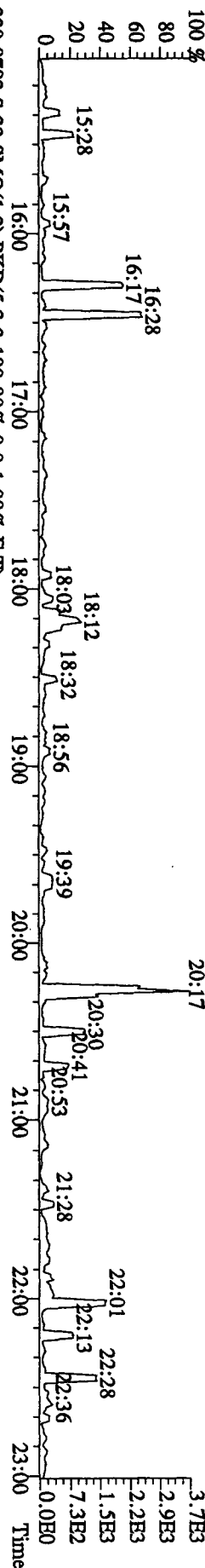
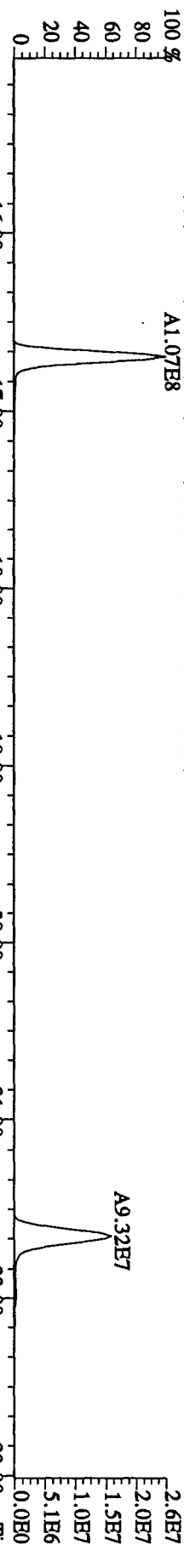
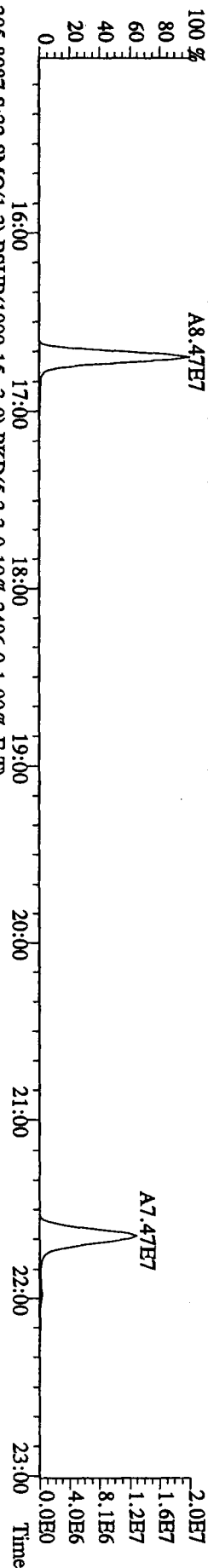
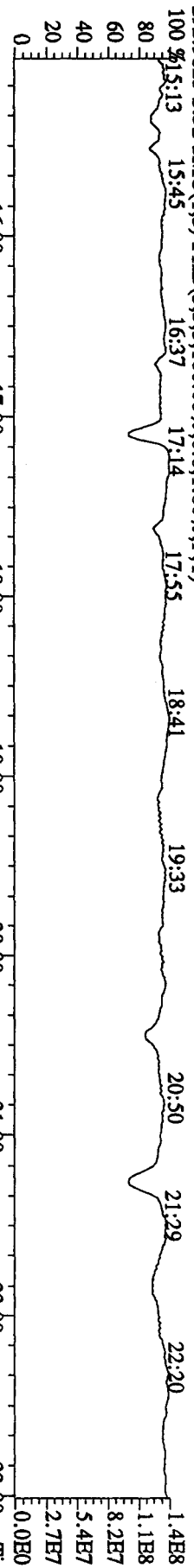


513.6775 S:32 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100,00%,2476,0,1,00%,F,T)

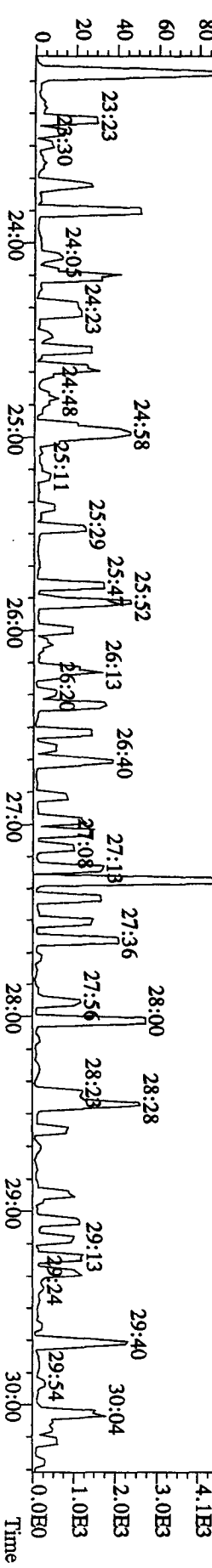
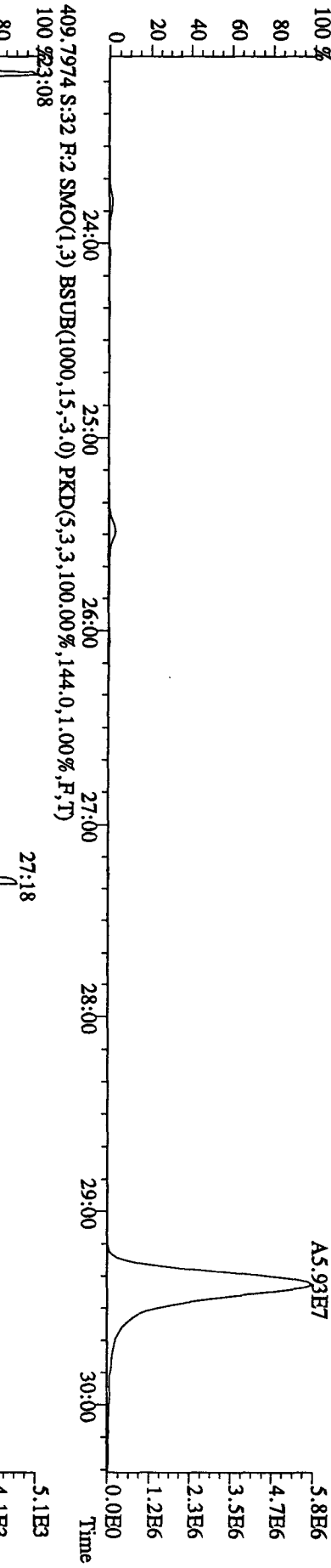
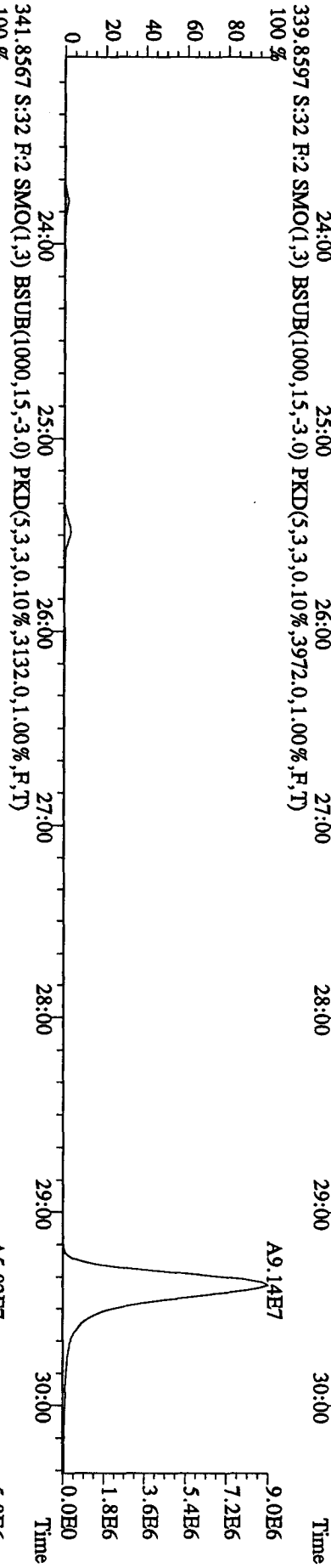
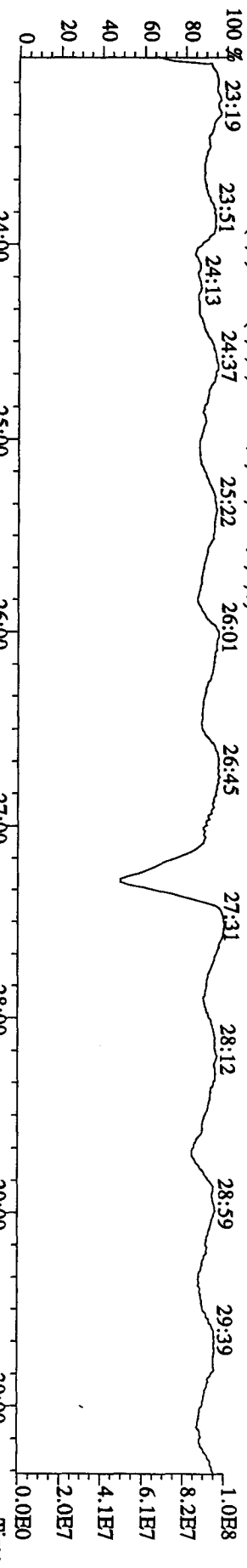


File:14OC104D5 #1-192 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#32 Text:CP1014B :DB-5 CP5M 3732-09 Exp:DIOXINRES  
 457.7377 S:32 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2300,0,1,00%,F,T)  
 100%





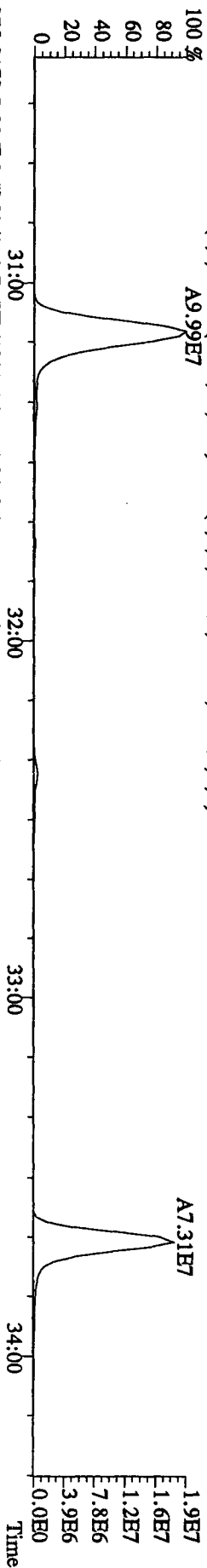
File:14OC104D5 #1-470 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#32 Text:CP1014B :DB-5 CPSM 3732-09 Exp:DIOXINRES



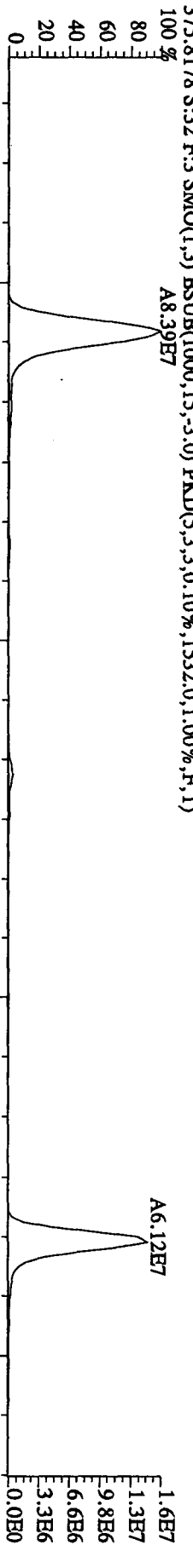
File: 140C104D5 #1-286 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#32 Text:CP1014B :DB-5 CP5M 3732-09 Exp:DIOXINRES  
 392.9760 S:32 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



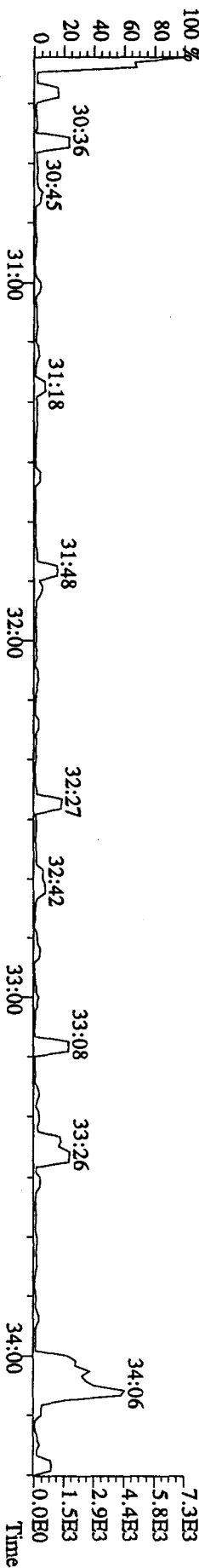
373.8208 S:32 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2056.0,1.00%,F,T)



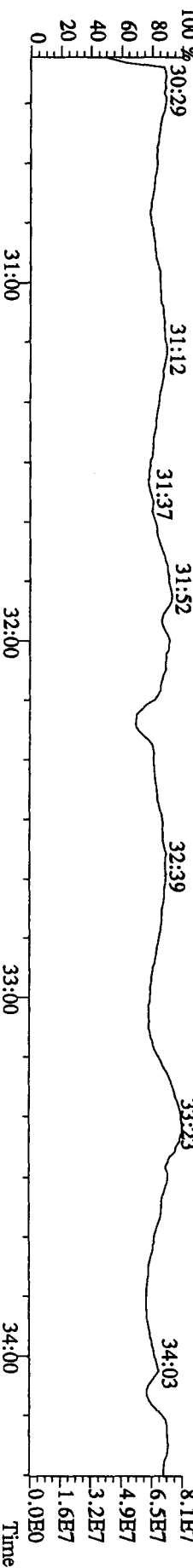
375.8178 S:32 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1532.0,1.00%,F,T)



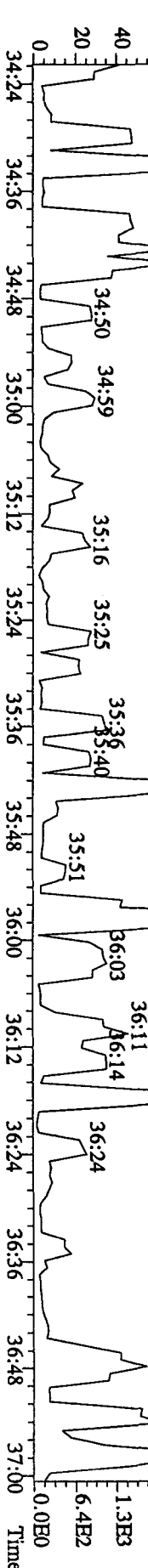
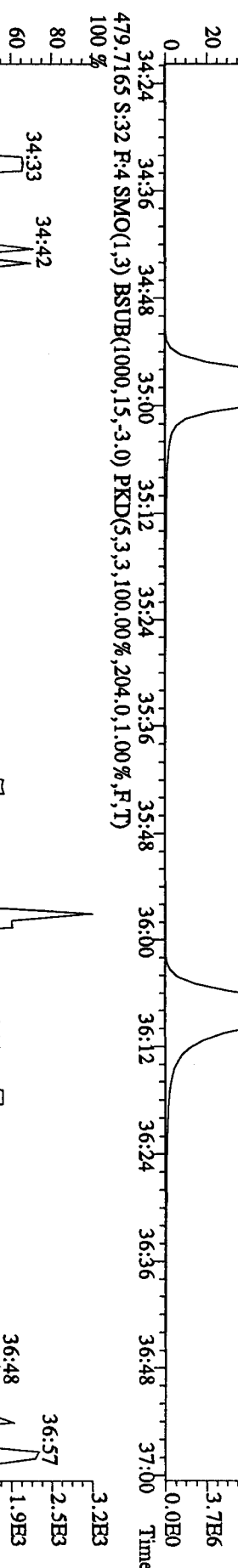
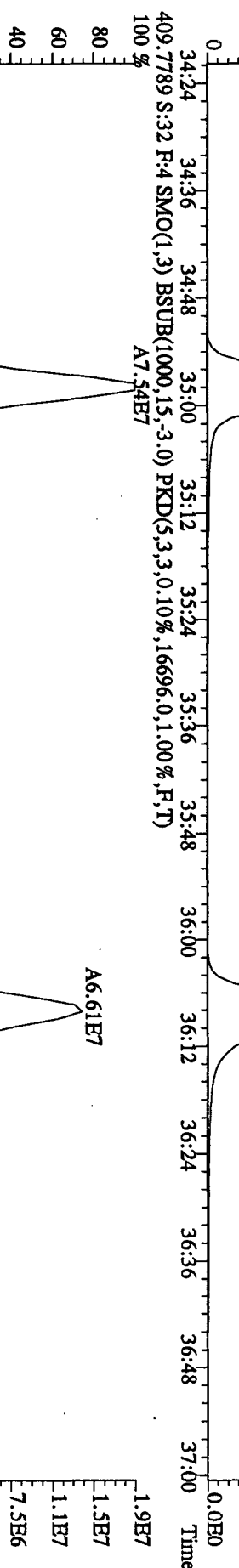
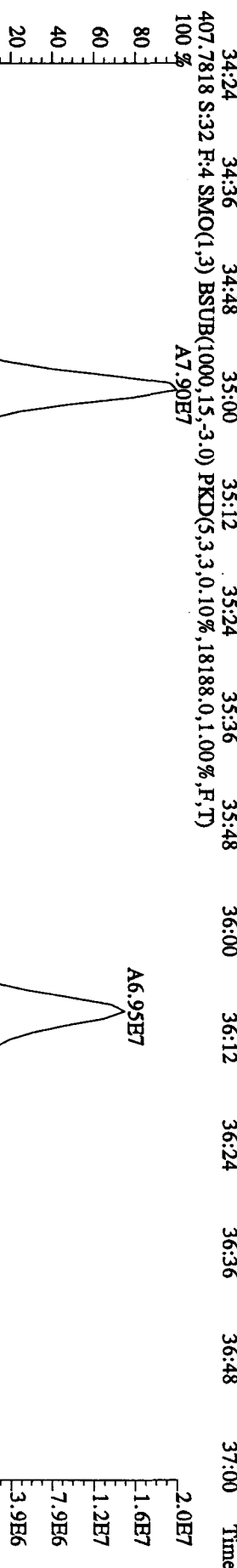
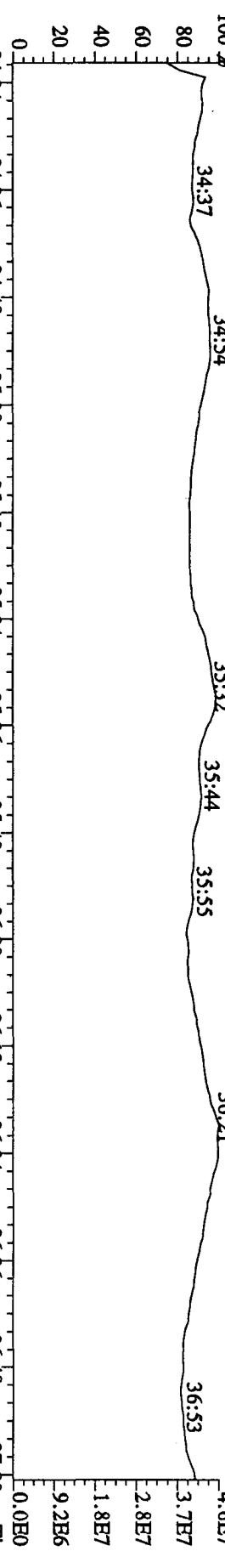
445.7555 S:32 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,112.0,1.00%,F,T)



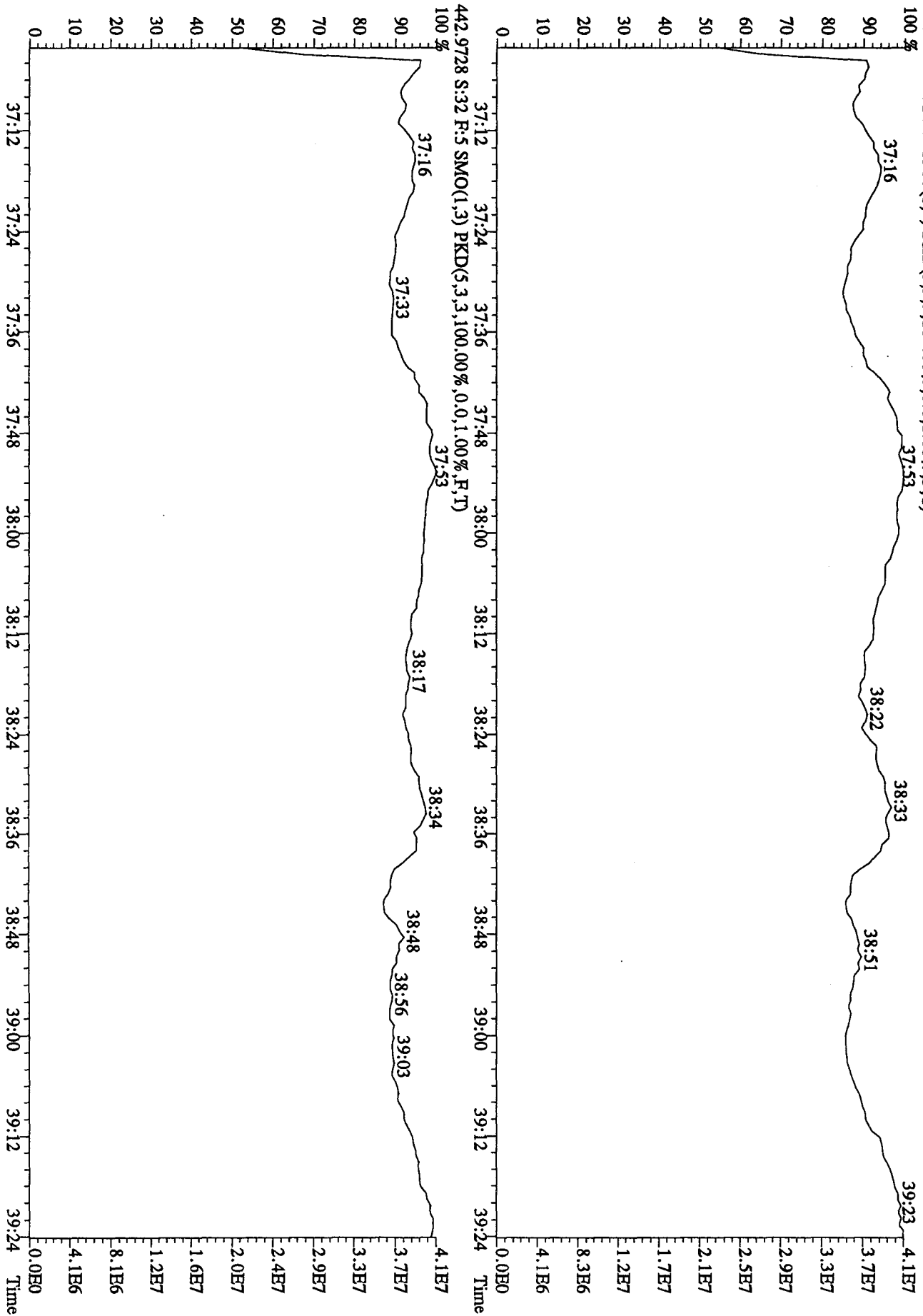
380.9760 S:32 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:14OC104D5 #1-201 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#32 Text:CP1014B :DB-5 CP/SM 3732-09 Exp:DIOXINRES  
 430.9728 S:3.2 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

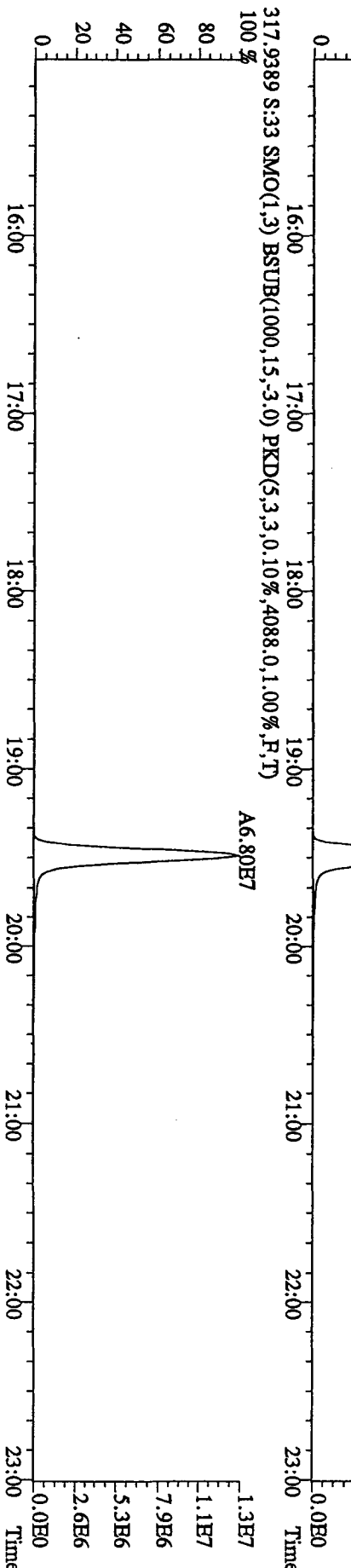
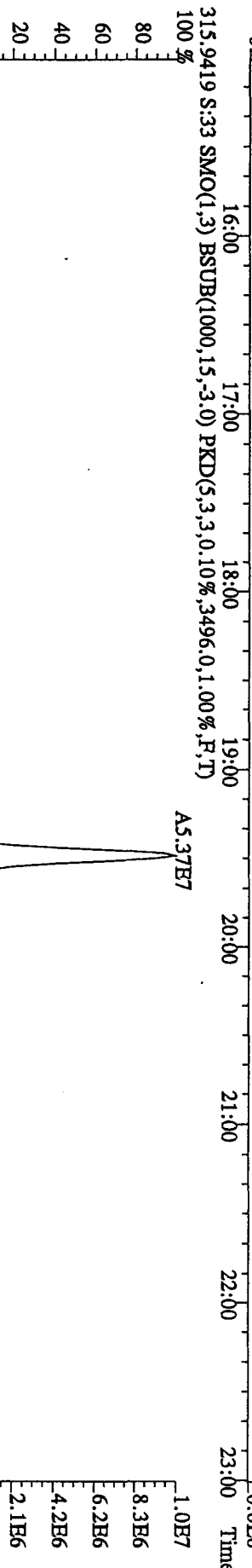
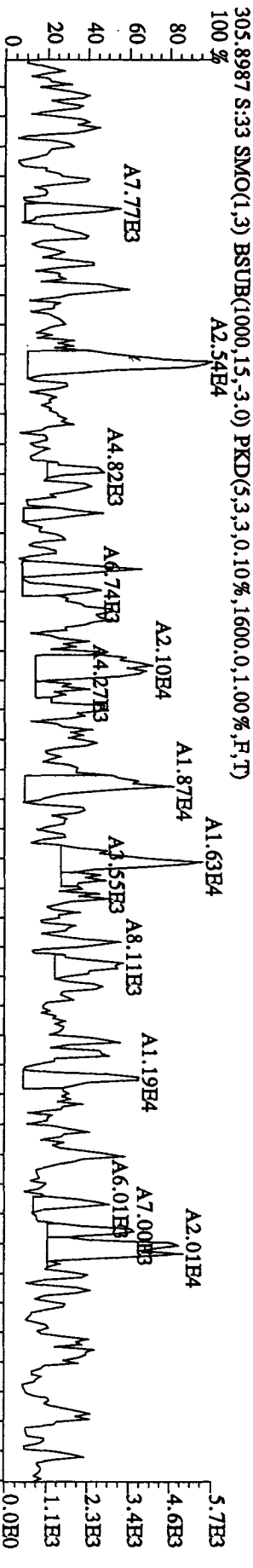
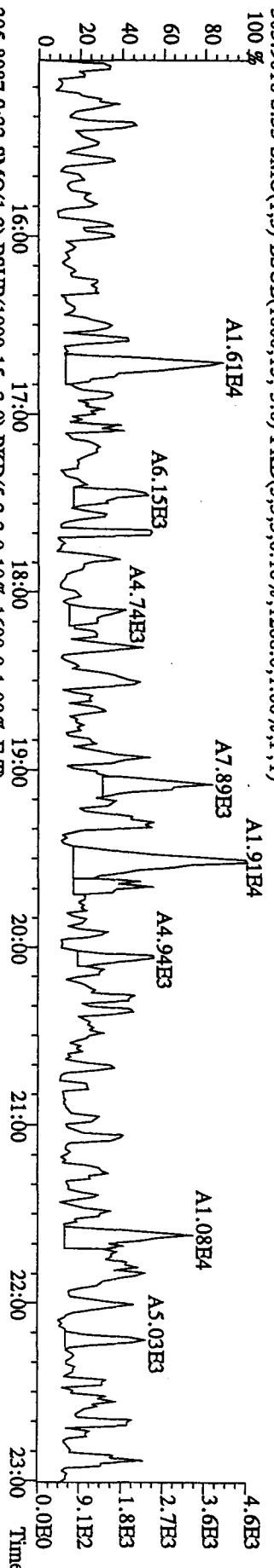


File: 14OCT104D5 #1-192 Acq:15-OCT-2010 09:07:00 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#32 Text:CP1014B :DB-5 CPSM 3732-09 Exp:DIOXINRES  
 454.9728 S:32 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 454.9728 S:32 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

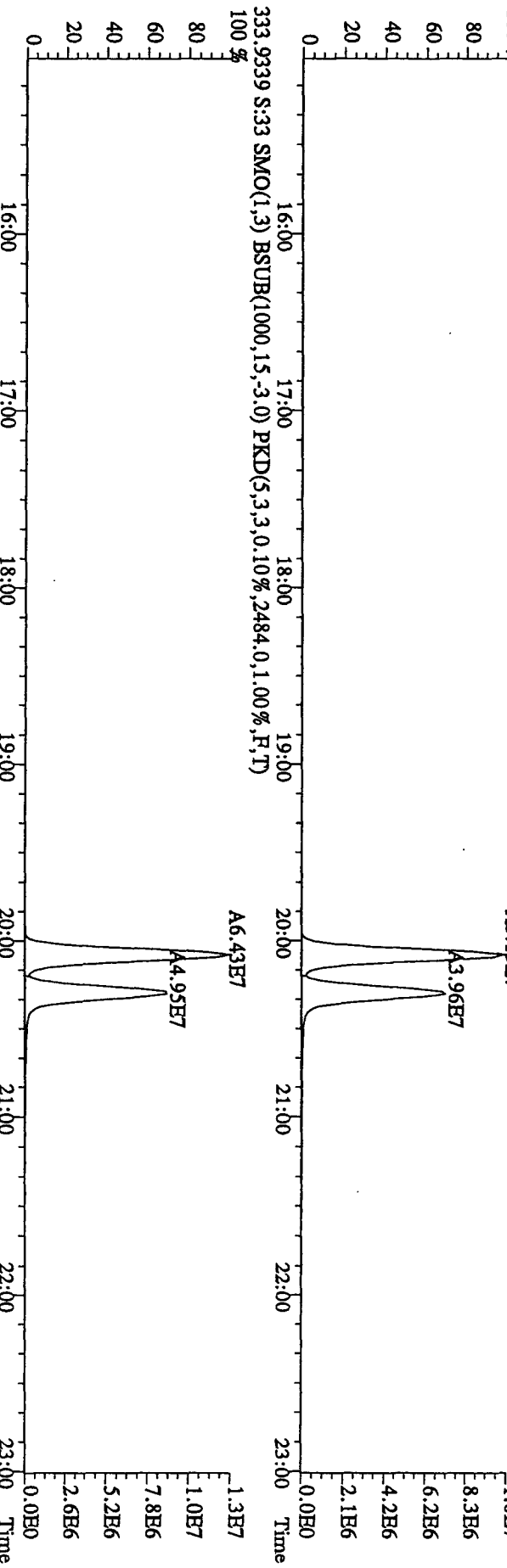
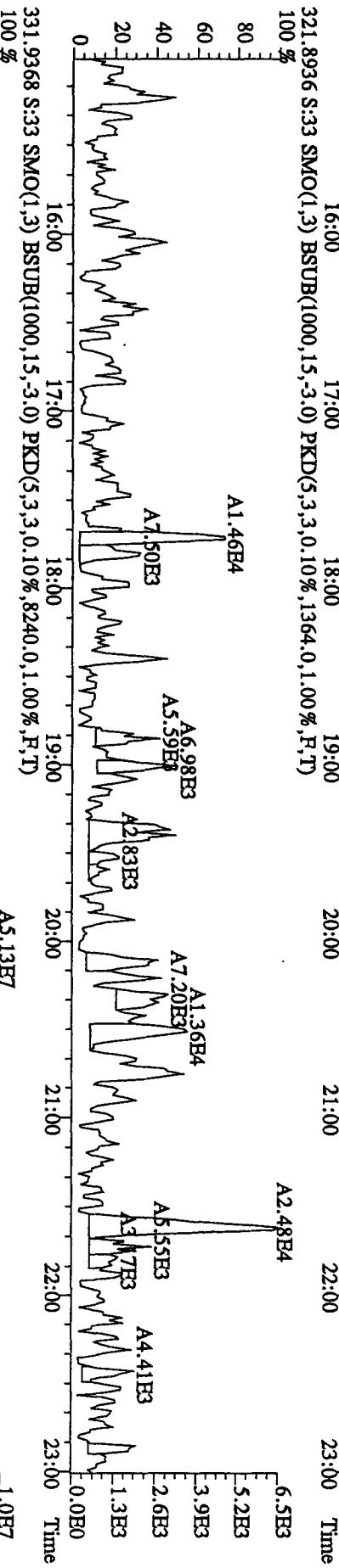
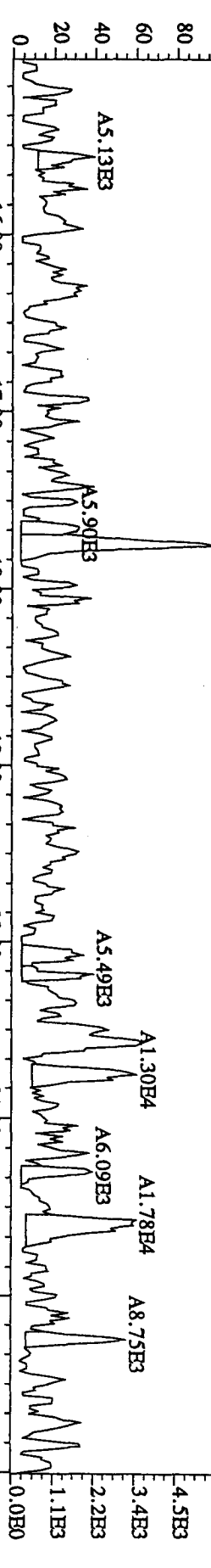




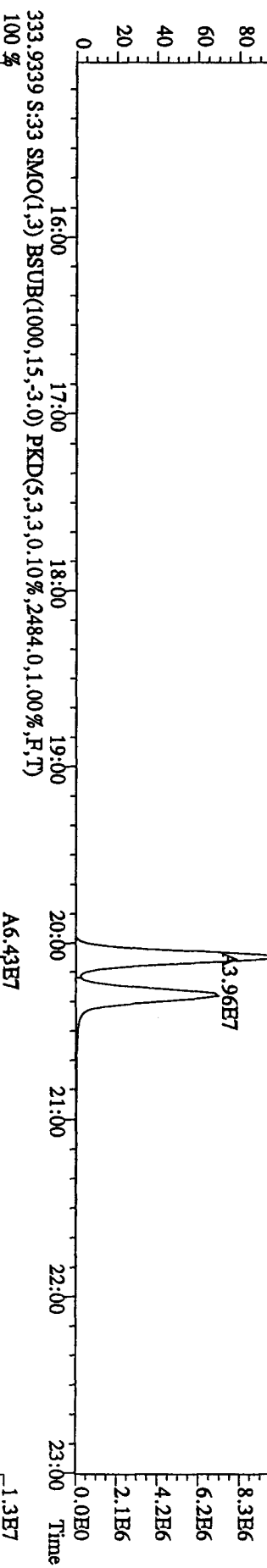
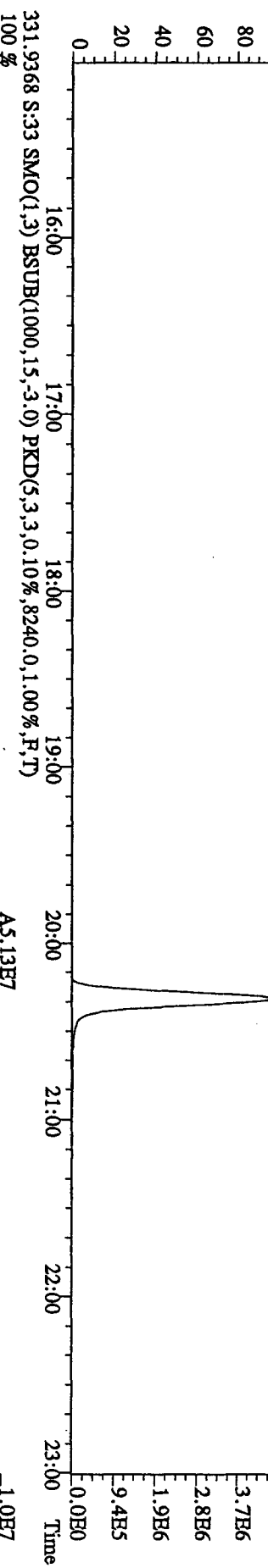
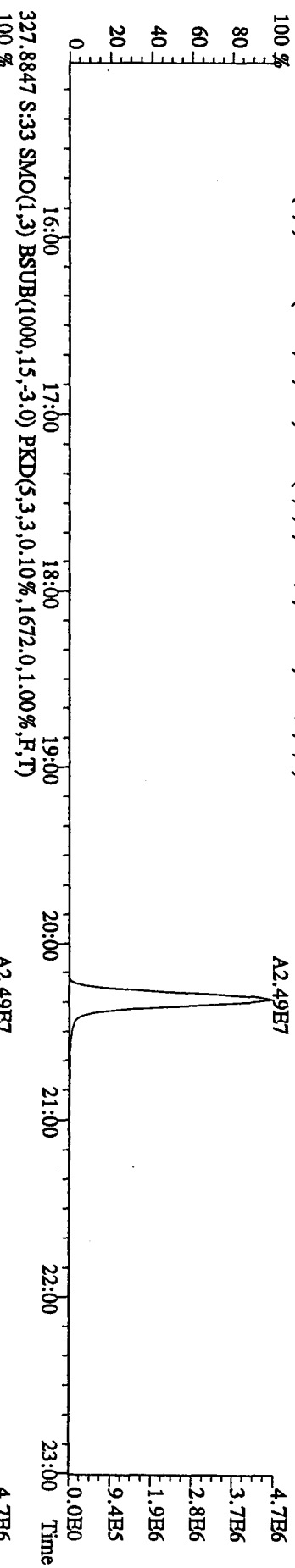
File: 14OC104D5 #1-530 Acq:15-OCT-2010 09:51:35 GC EI+ Voltage SIR Autospec-UtimaE  
 Sample#33 Text:L7CJR-1-AA :G01220000-350 (448MB) Exp:DIOXINRES  
 303.9016 S:33 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1208,0,1,00%,F,T)



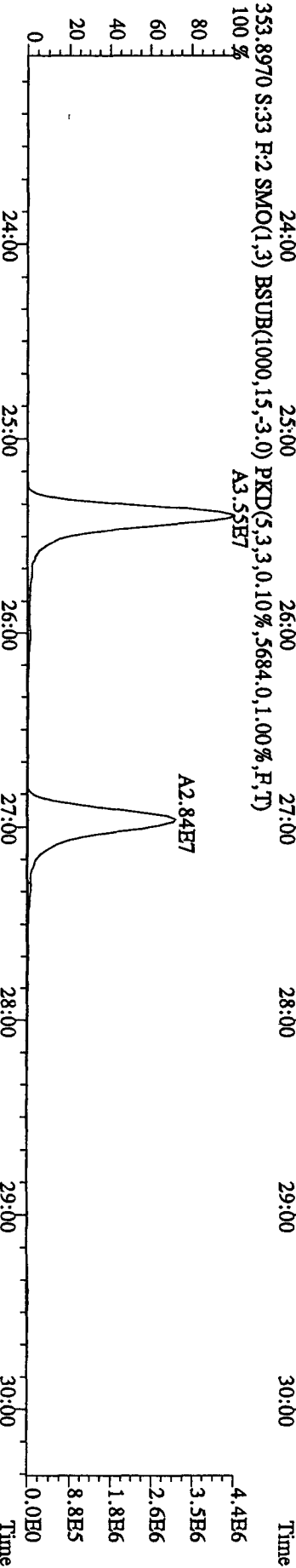
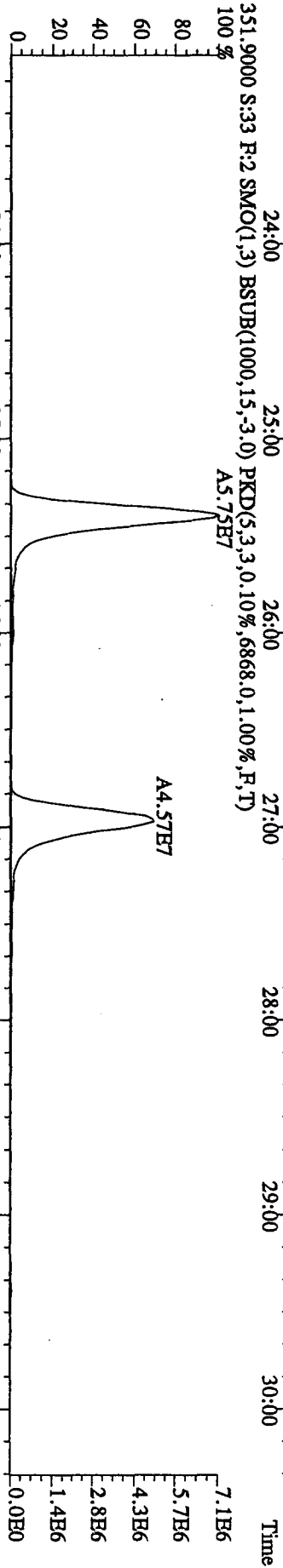
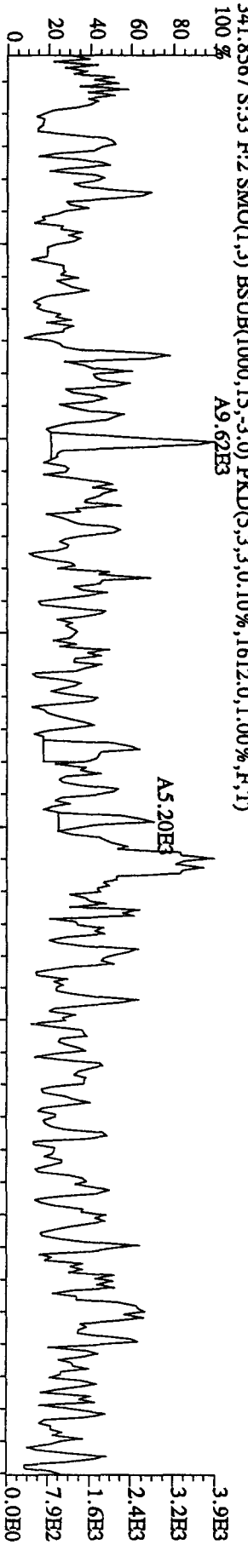
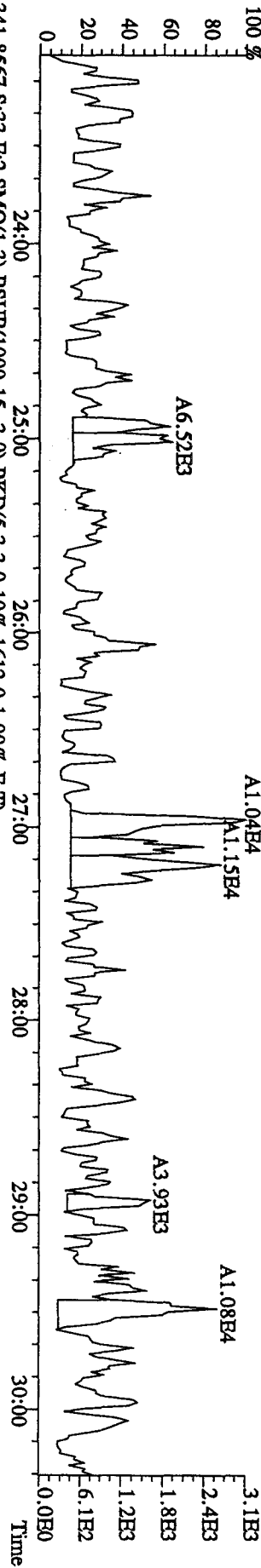
File:14OC104D5 #1-530 Acq:15-OCT-2010 09:51:35 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#33 Text:L7CJR-1-AA :G01D20000-350 (448MB) Exp:DIOXINRBS  
 319.8965 S:33 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1176.0,1.00%,F,T)  
 100 %



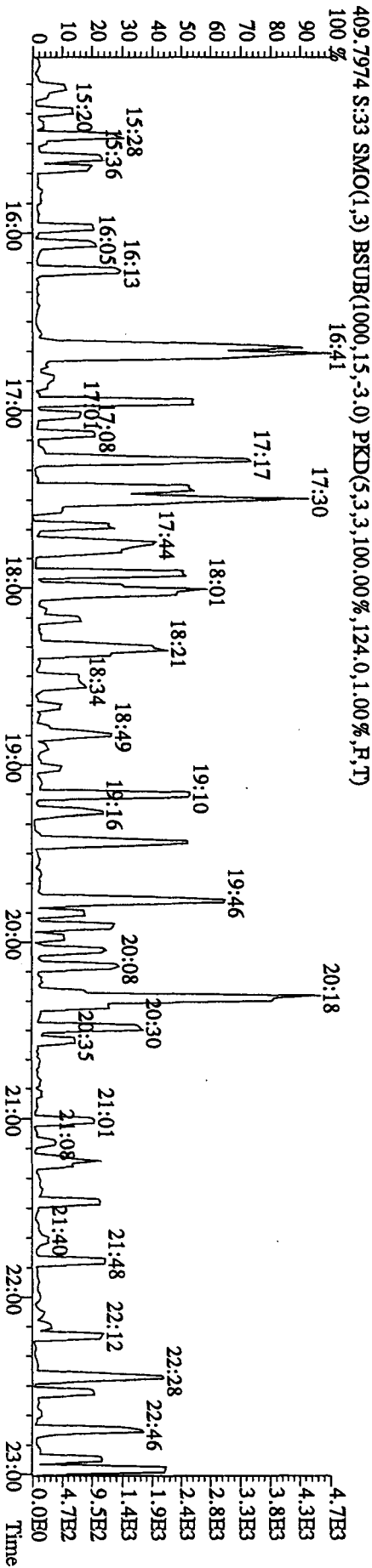
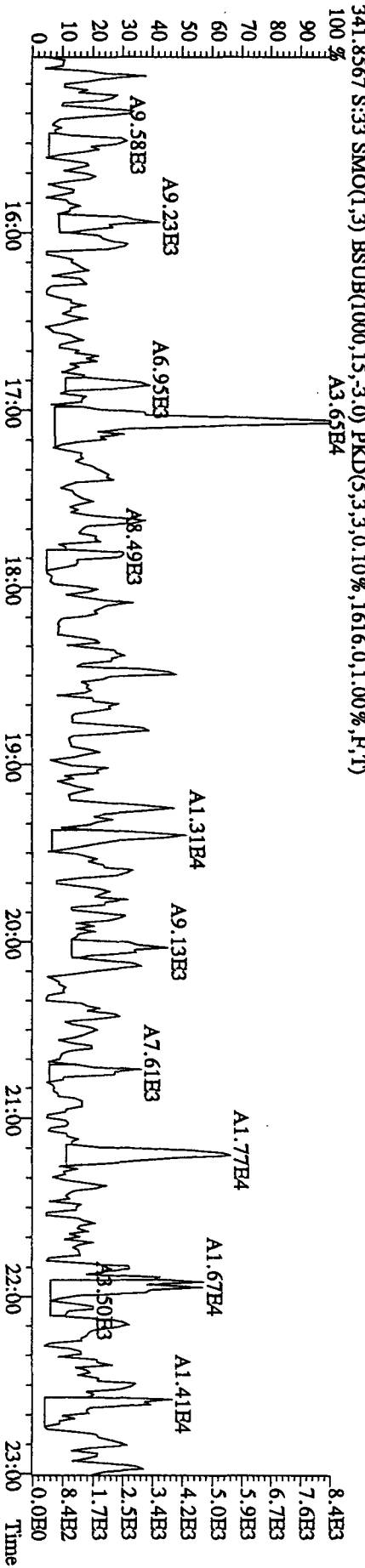
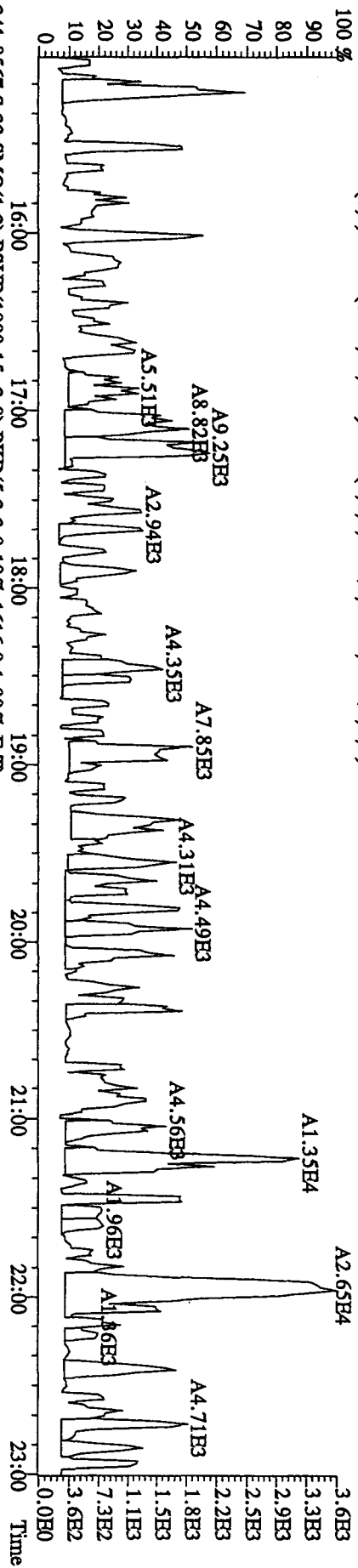
File: 14OC104D5 #1-530 Acq: 15-OCT-2010 09:51:35 GC EI+ Voltage S1R Autospec-UltimaB  
 Sample#33 Text: L7CJR-1-AA :G01220000-350 (448MB) Exp: DIOXINRES  
 327.8847 S:33 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1672.0,1.00%,F,T)



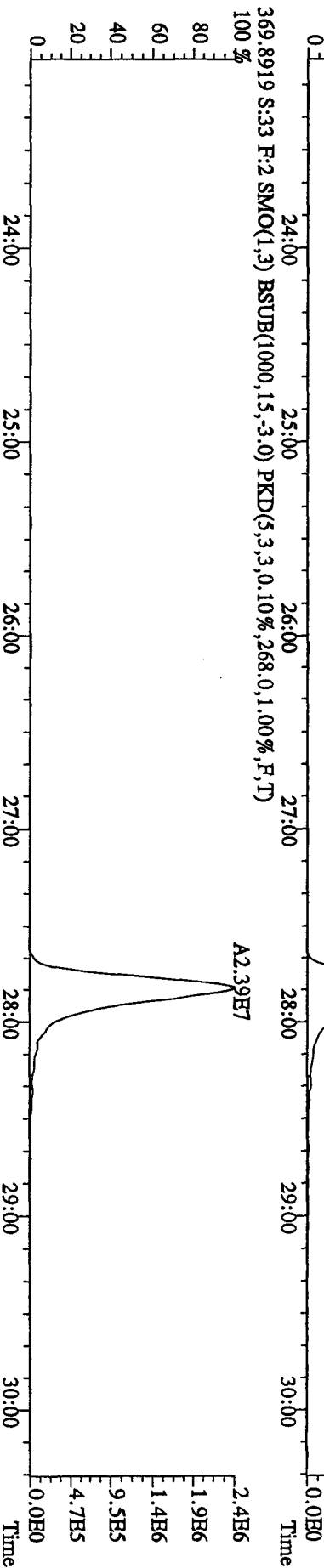
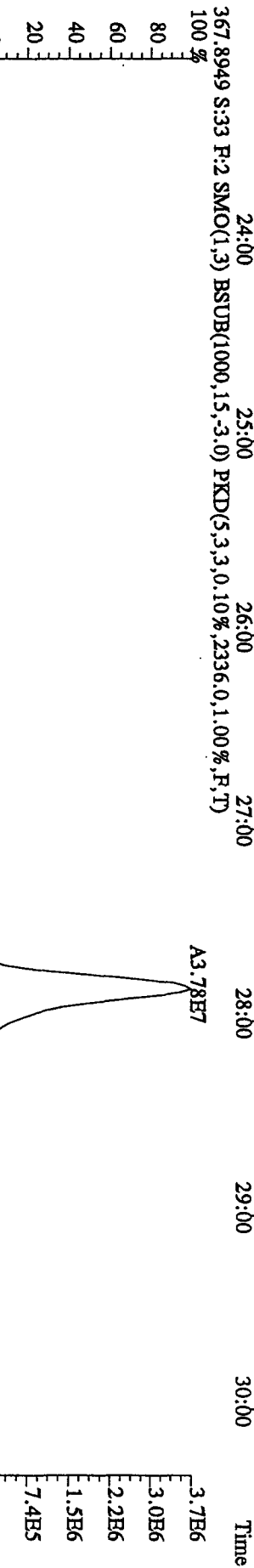
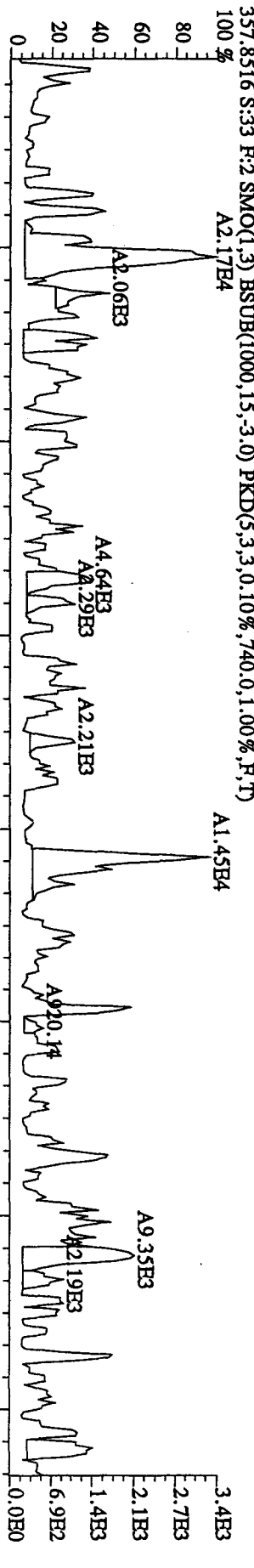
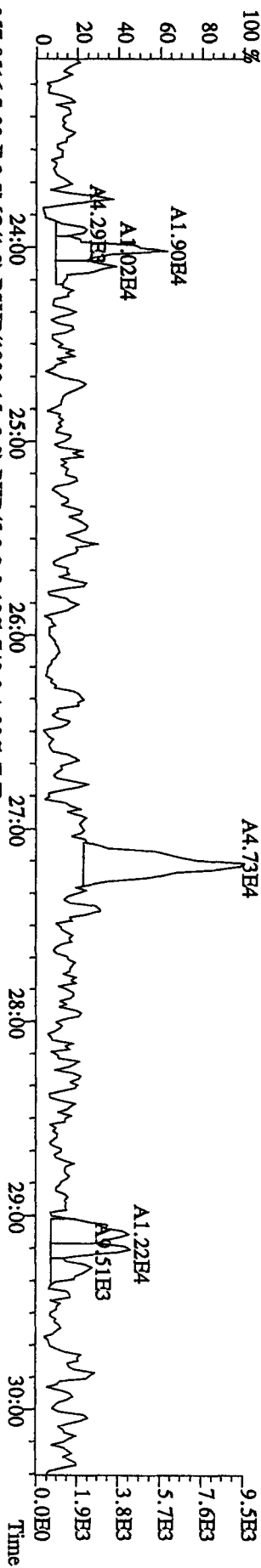
File:14OC104D5 #1-470 Acq:15-OCT-2010 09:51:35 GC EI+ Voltage SIR Autospec-UltraB  
 Sample#33 Text:L7CJR-1-AA :G0122000-350 (448MB) Exp:DIOXINRES  
 339.8597 S:33 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.888,0,1.00%,F,T)



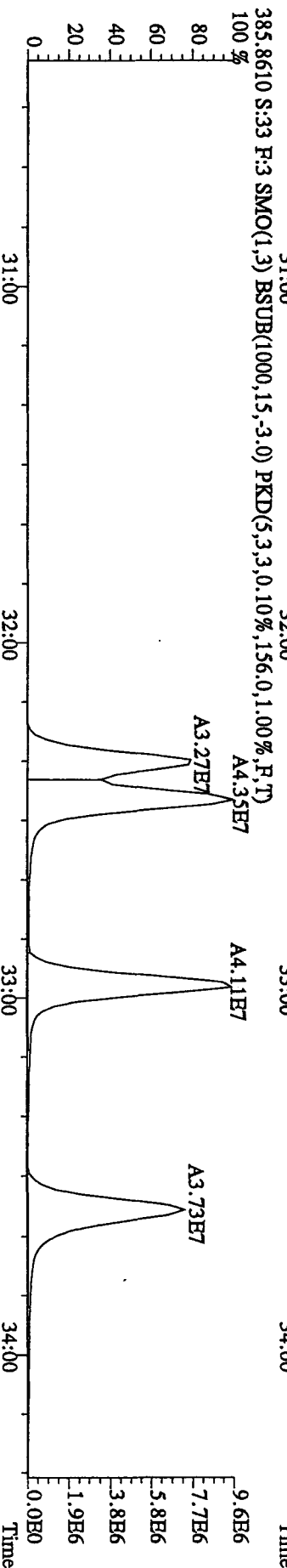
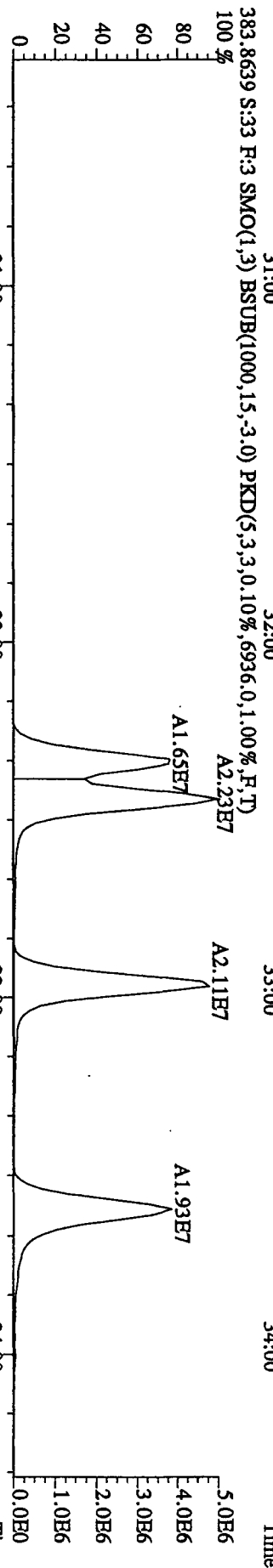
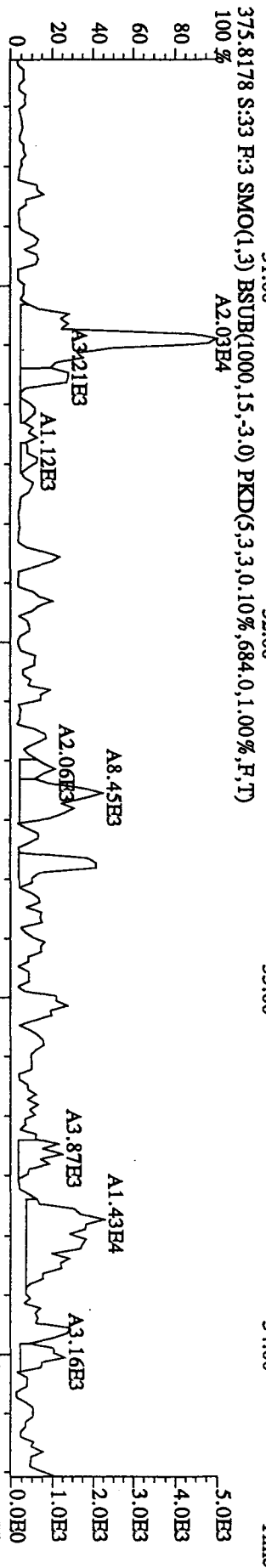
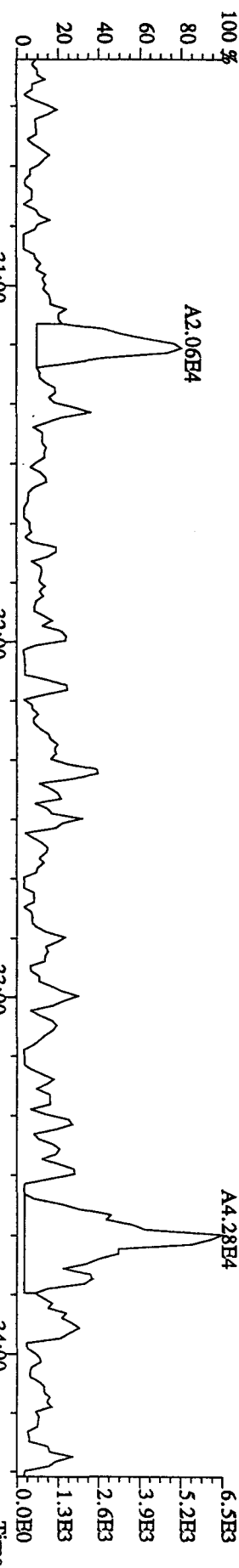
File: 140C104D5 #1-530 Acq: 15-OCT-2010 09:51:35 GC EI+ Voltage: SIR Autospec-Ultimate  
 Sample#33 Text: L7CJR-1-AA :G01220000-350 (448MB) Exp: DIOXINRES  
 339.8597 S:33 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,588.0,1.00%,F,T)



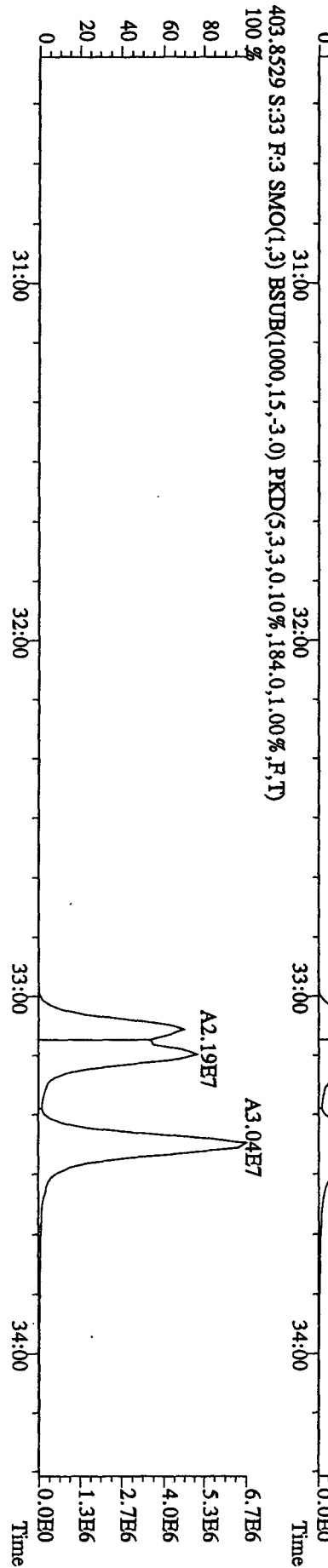
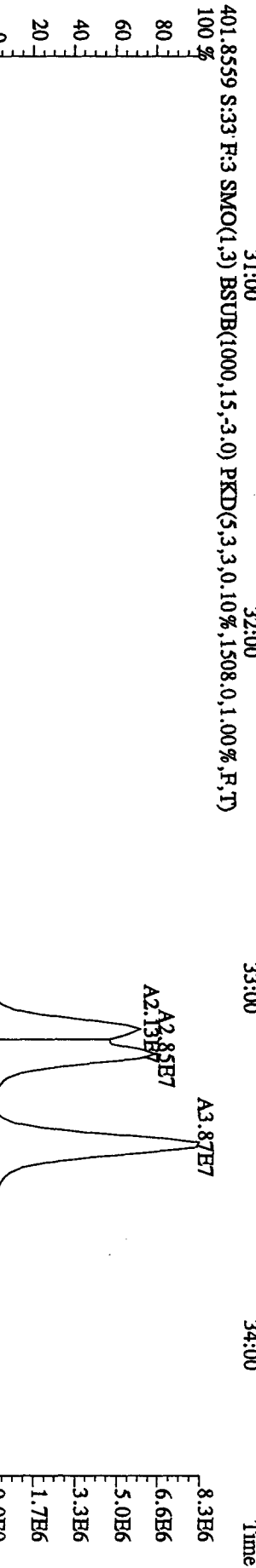
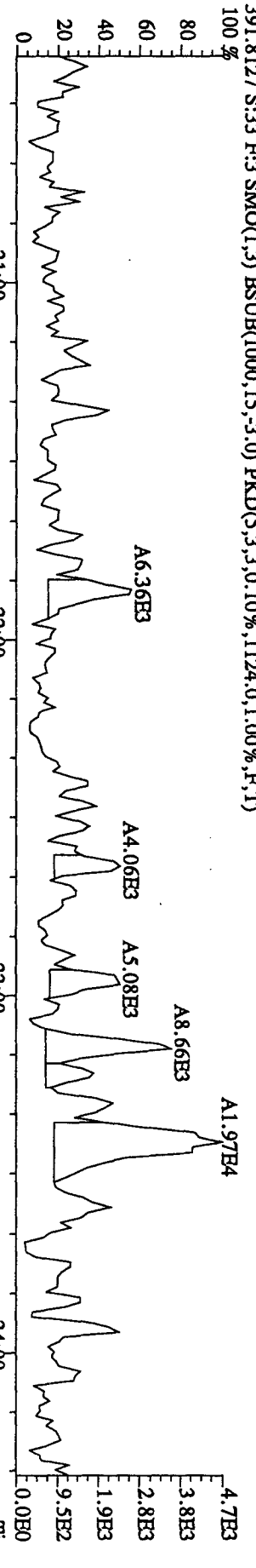
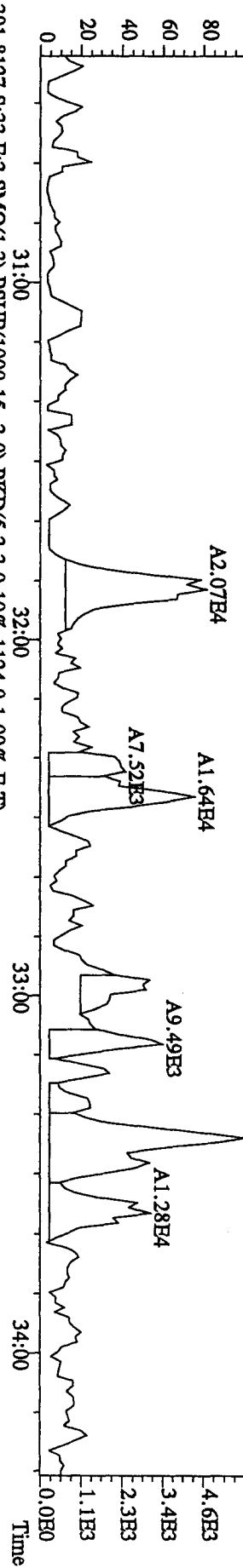
File:14OC104D5 #1-470 Acq:15-OCT-2010 09:51:35 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#33 Text:L7CJR-1-AA :G01220000-350 (448MB) Exp:DIOXINRES  
 355.8546 S:33 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1608.0,1.00%,F,T)



File: 140C104D5 #1-287 Acq: 15-OCT-2010 09:51:35 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#33 Text: L7CIR-1-AA :G01220000-350 (448MB) Exp: DIOXINRES  
 373.8208 S:3.3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1140,0,1,00%,F,T)  
 100%

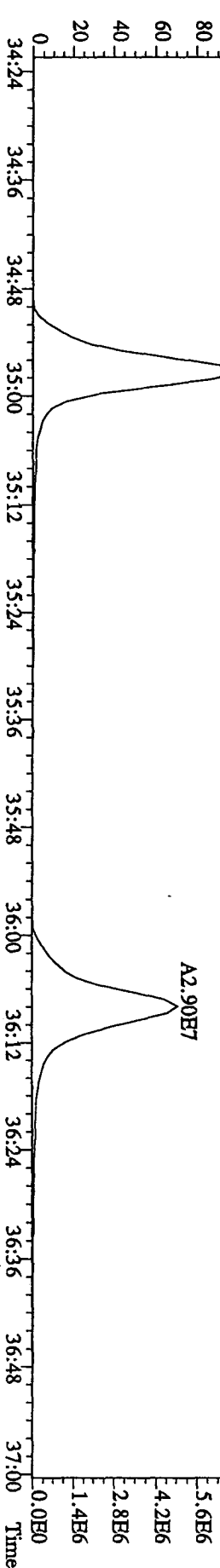
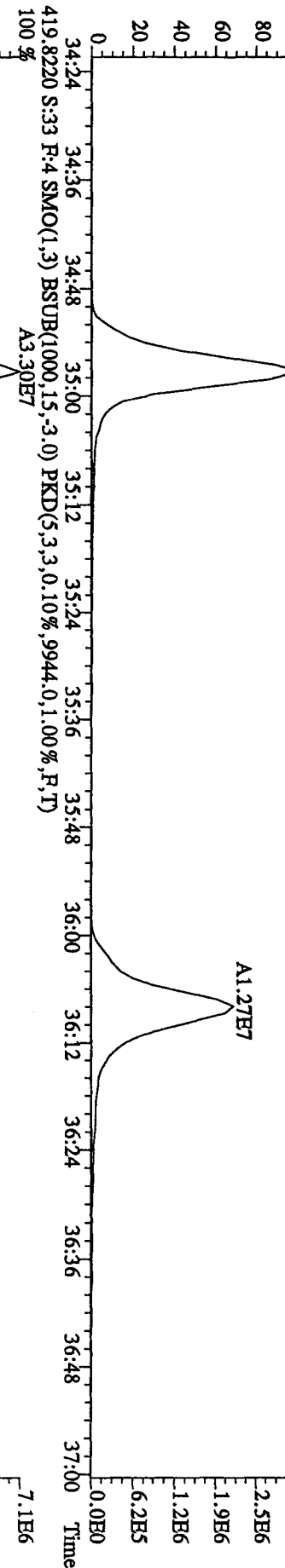
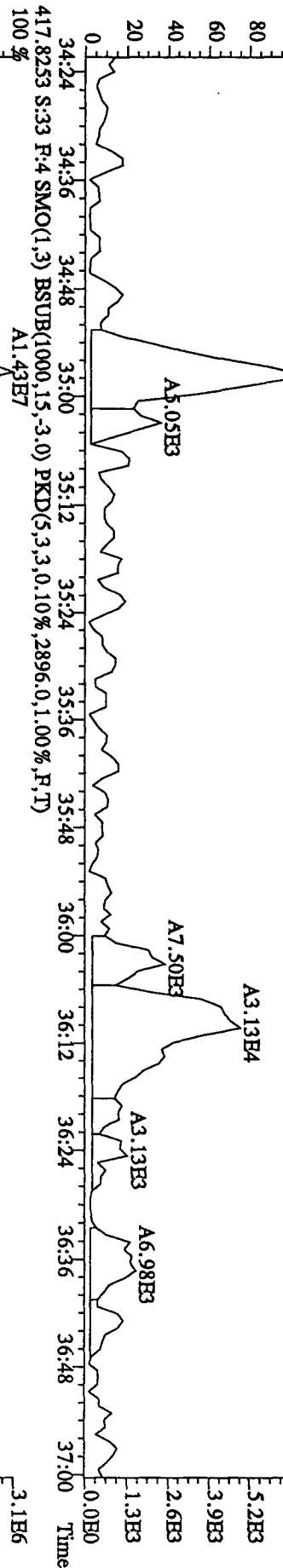
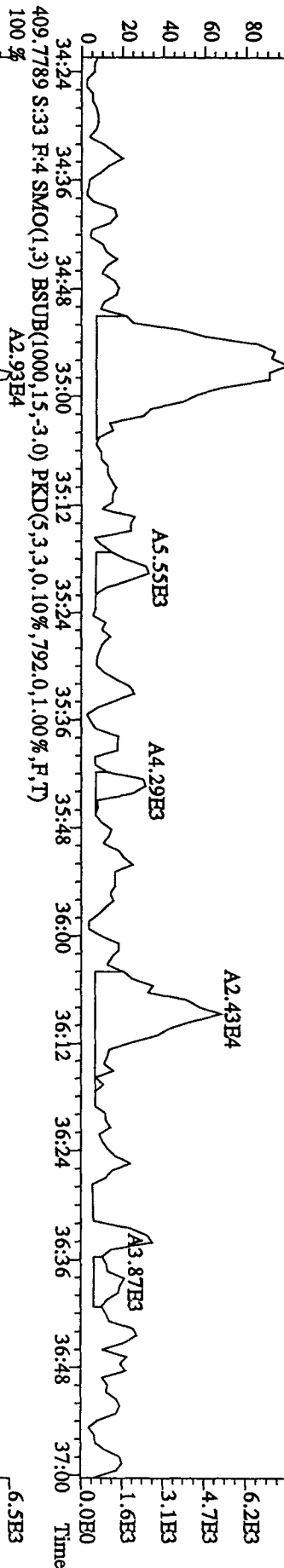


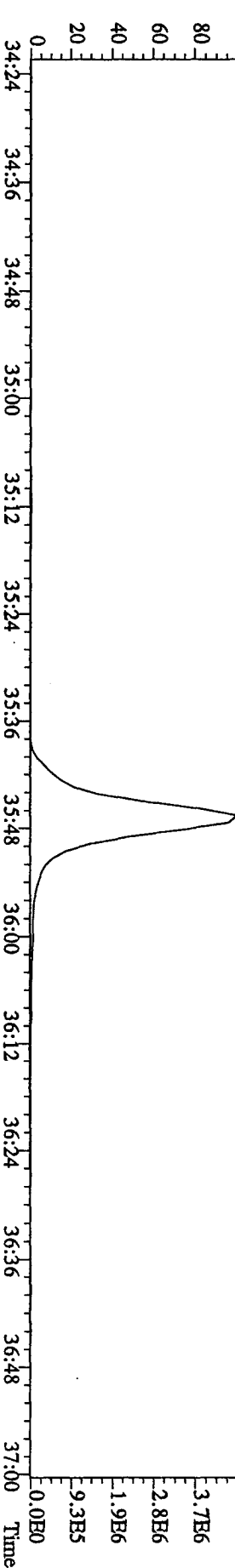
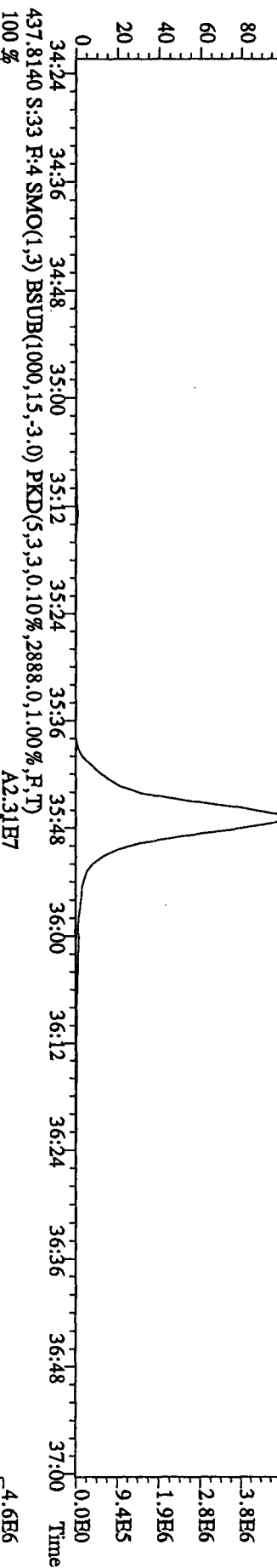
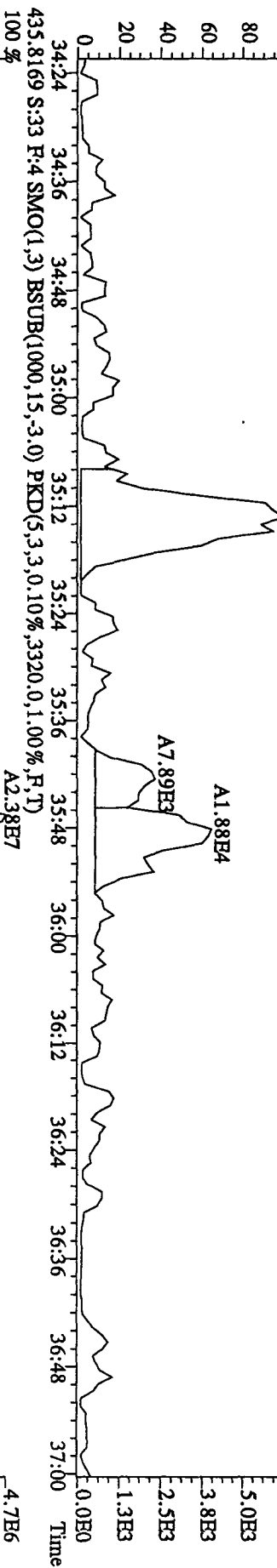
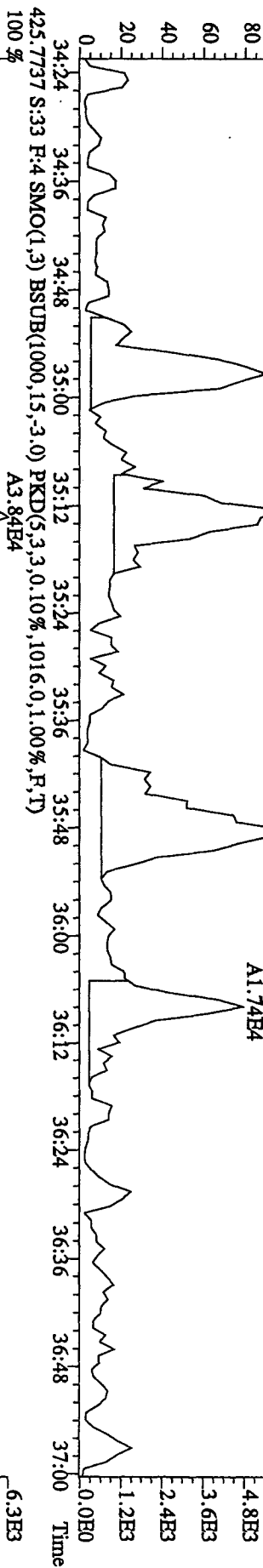
File:14OC104D5 #1-287 Acq:15-OCT-2010 09:51:35 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#33 Text:17CJR-1-AA :G01220000-350 (448MB) Exp:DIOXINRES  
 389.8157 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1000.0,1.00%,F,T)  
 100 %



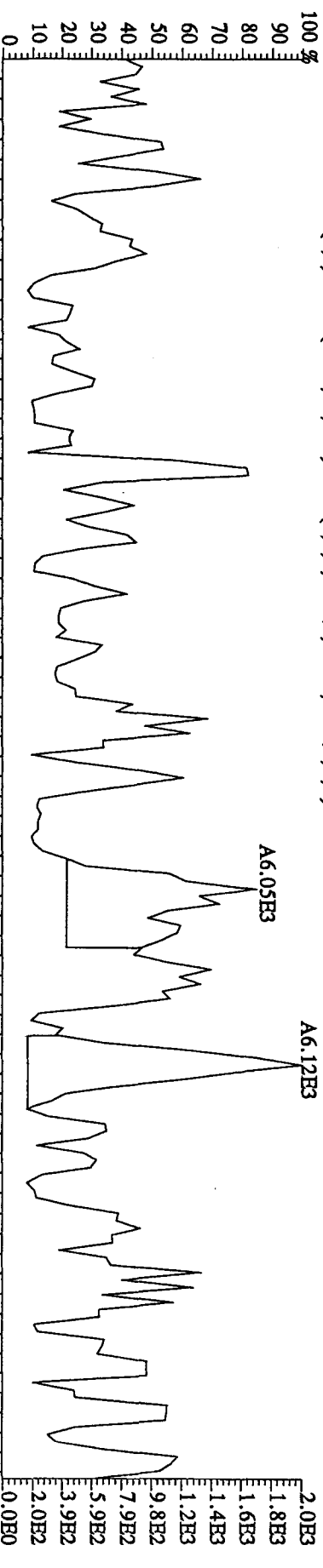


File:14OC104D5 #1-200 Acq:15-OCT-2010 09:51:35 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#33 Text:L7CJR-1-AA :G01220000-350 (448MB) Exp:DIOXINRES  
 407.7818 S:33 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1476.0,1.00%,F,T)  
 100 % A5.16B4

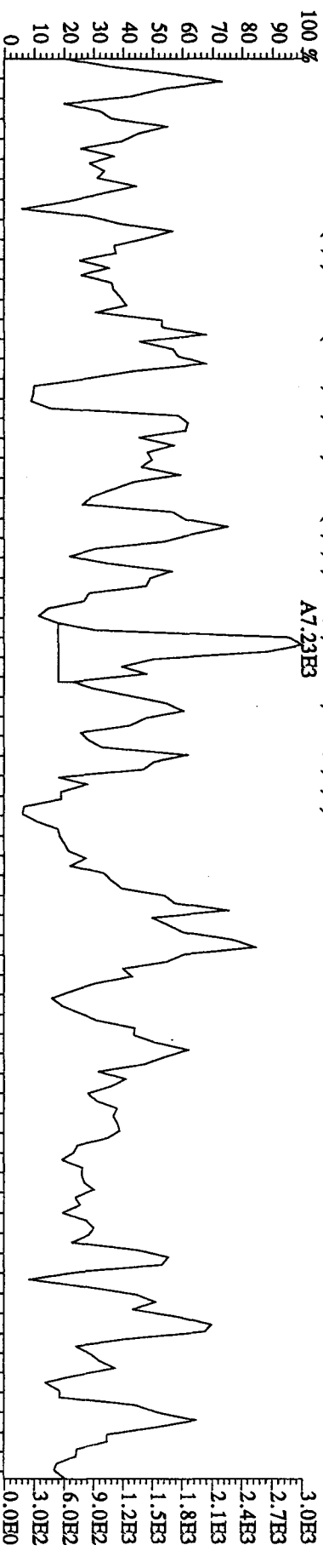




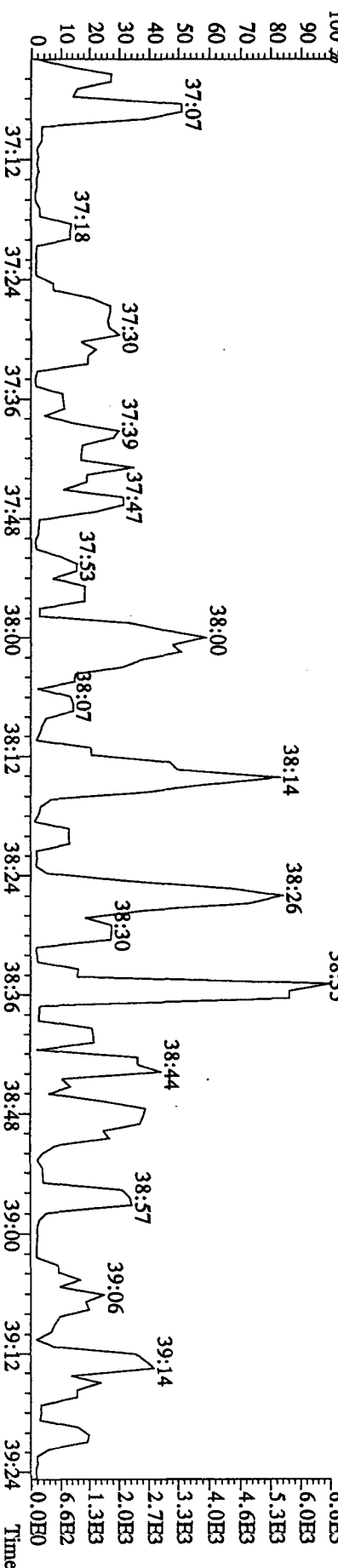
File:14OC104D5 #1-193 Acq:15-OCT-2010 09:51:35 GC HI+ Voltage SIR Autospec-Ultimate  
 Sample#33 Text:L7CJR-1-AA :G01220000-350 (448MB) Exp:DIOXINRES  
 441.7428 S:33 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,732.0,1.00%,F,T)



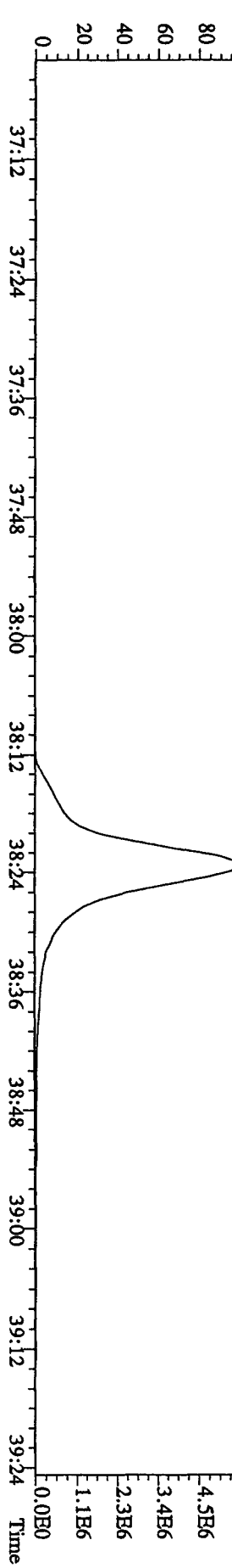
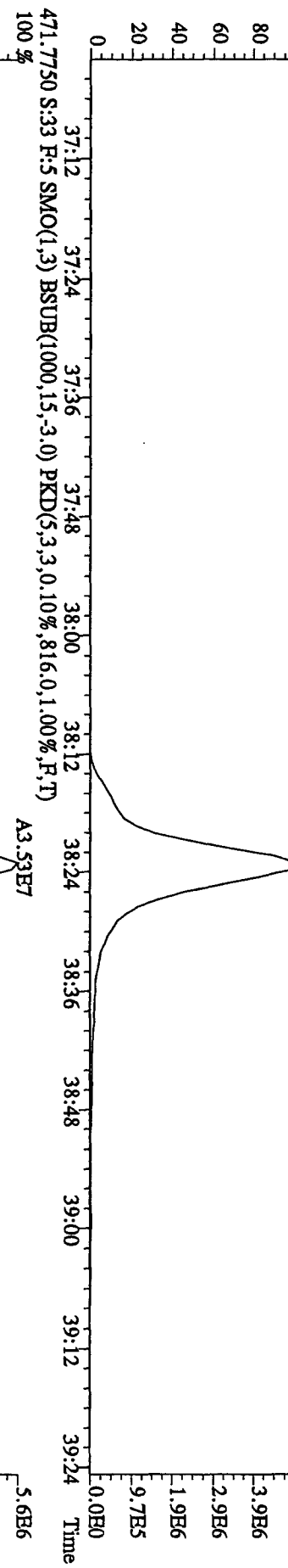
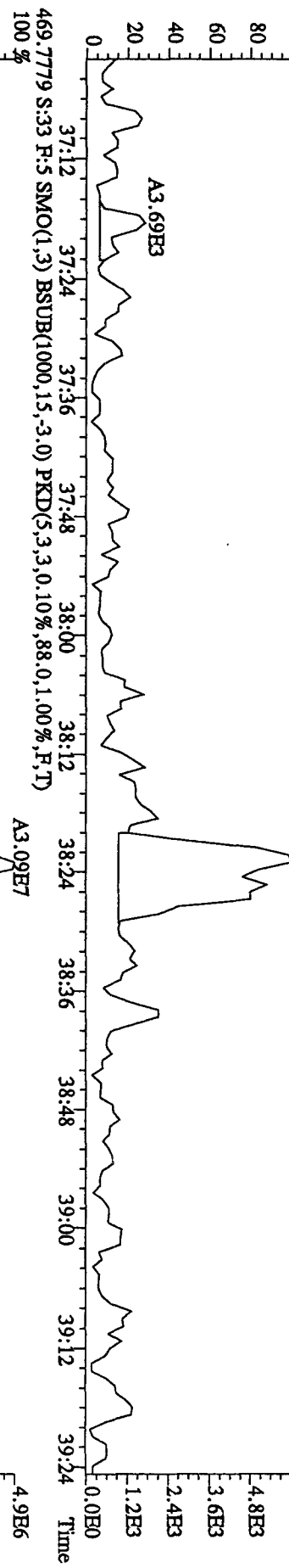
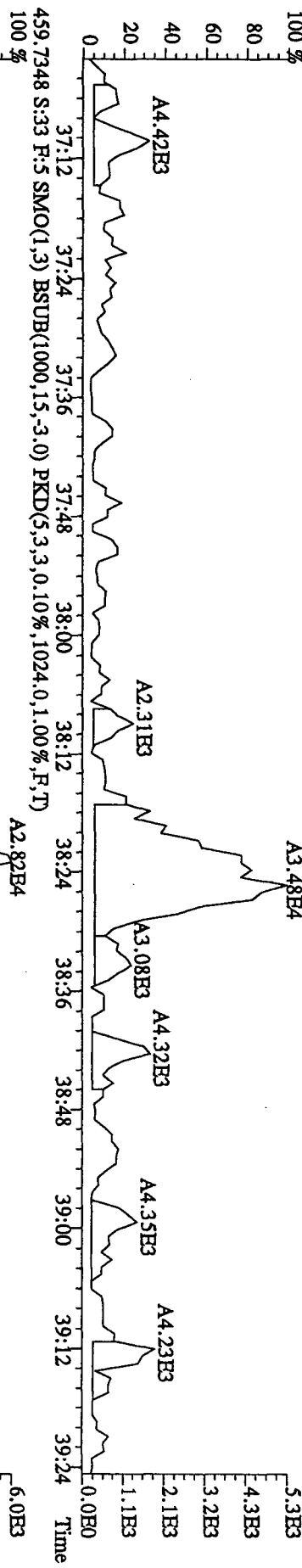
443.7399 S:33 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1752.0,1.00%,F,T)  
 A7.23E3



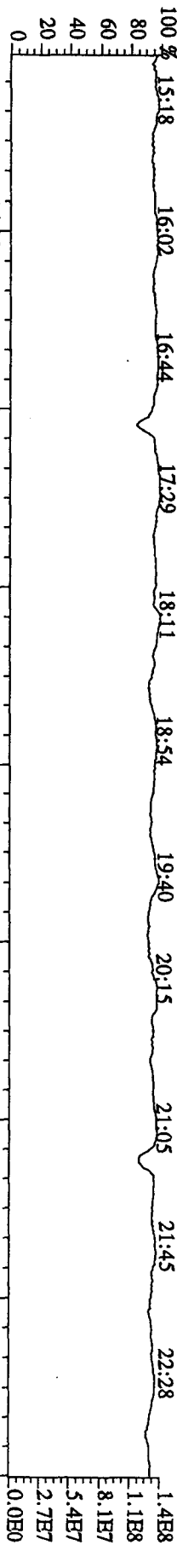
513.6775 S:33 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,1852.0,1.00%,F,T)



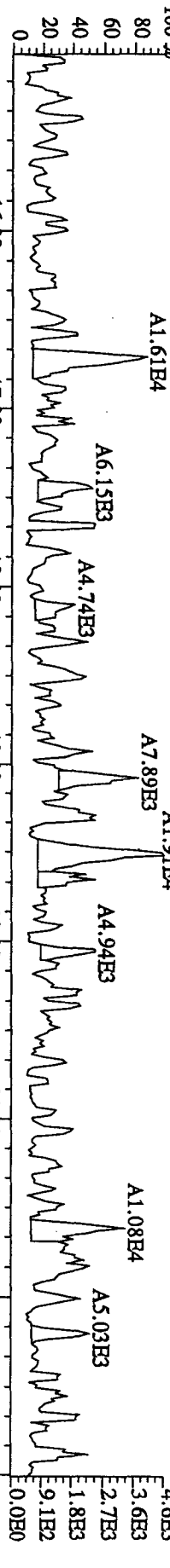
File:14OC104D5 #1-193 Acq:15-OCT-2010 09:51:35 GC HF+ Voltage SIR Autospec-UltimaB  
 Sample#33 Text:L7CJR-1-AA :G0122000-350 (448MB) Exp:DIOXINRES  
 457.7377 S:33 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,672.0,1.00%,F,T)



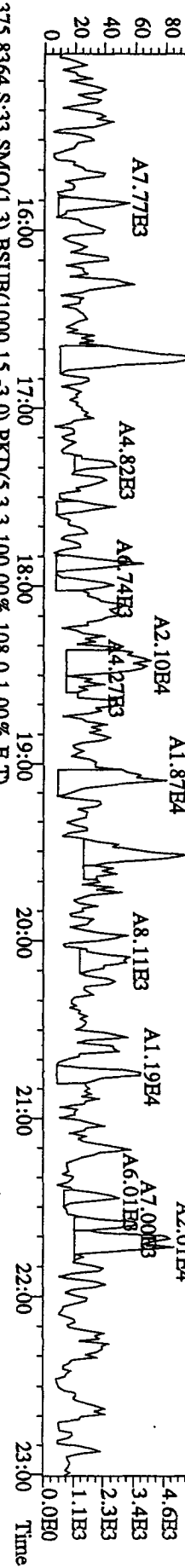
File: 140C104D5 #1-530 Acq: 15-OCT-2010 09:51:35 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#33 Text: L7CJR-1-AA : G01220000-350 (448MB) Exp: DIOXINRES  
 297.9825 S:33 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)  
 100% 15:18 16:02 16:44 17:29 18:11 18:54 19:40 20:15 21:05 21:45 22:28



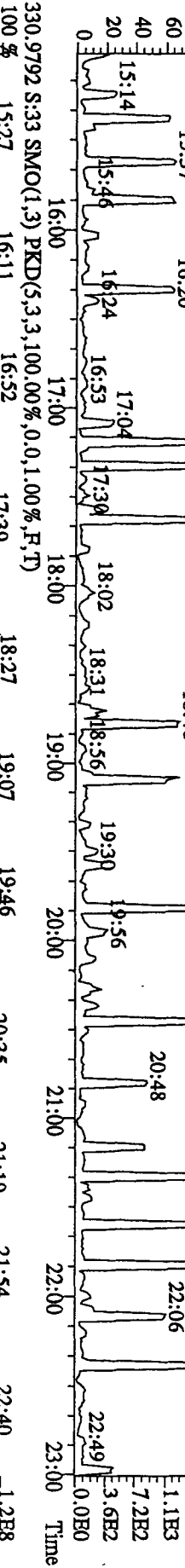
303.9016 S:33 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1208,0,1,00%,F,T)  
 100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00



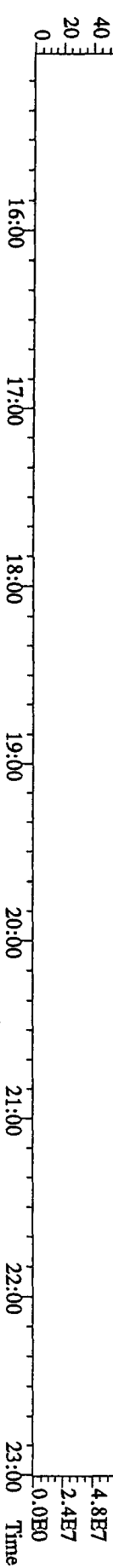
305.8987 S:33 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1600,0,1,00%,F,T)  
 100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00



375.8364 S:33 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,108,0,1,00%,F,T)  
 100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00



330.9792 S:33 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 100% 15:27 16:11 16:52 17:09 17:39 18:27 18:47 19:07 19:46 20:35 21:19 21:54 22:20 22:40

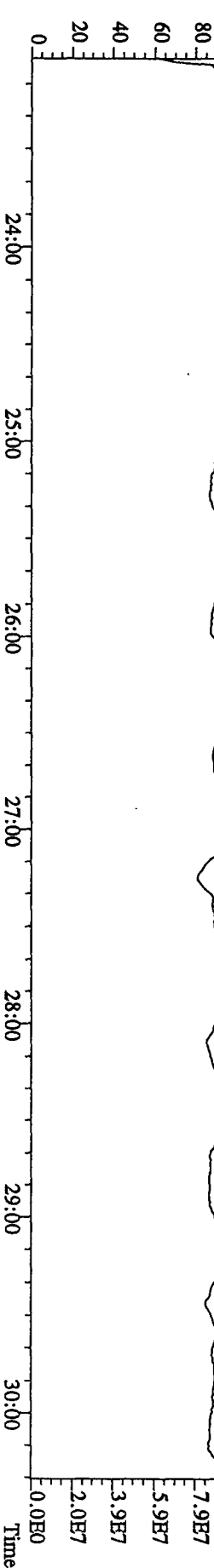


File:14OC104D5 #1-470 Acq:15-OCT-2010 09:51:35 GC BF + Voltage SIR Autospec-Ultimate

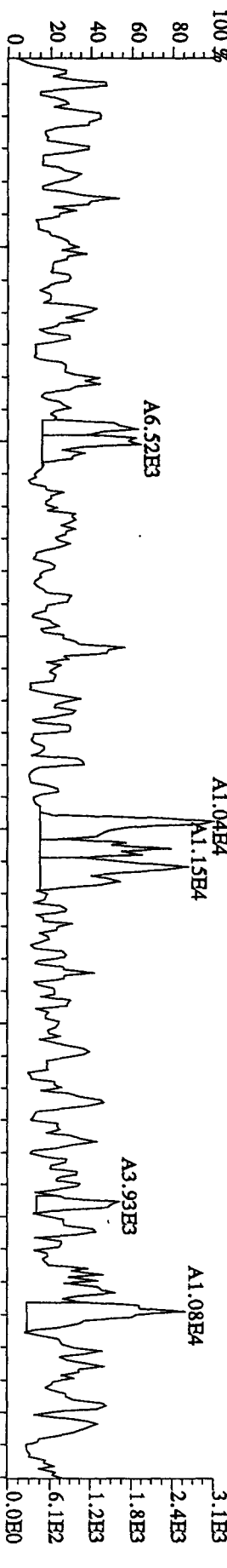
Sample#33 Text:L7CIR-1-AA :G01220000-350 (448MB) Exp:DIOXINRES

342.9792 S:33 F:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

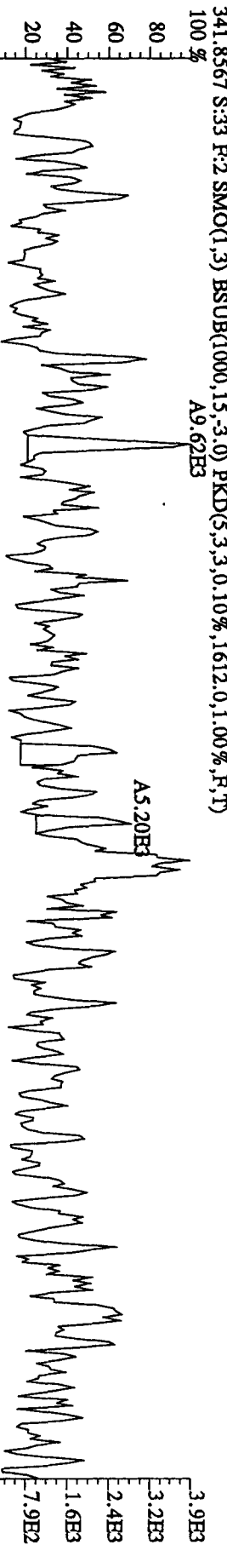
100% 23:25 24:05 24:45 25:33 26:11 27:00 27:44 28:22 29:07 29:37



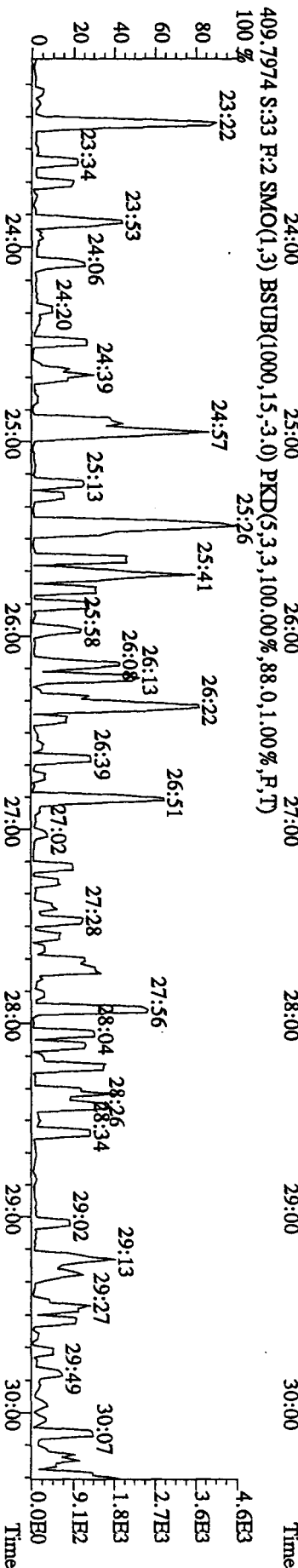
339.8597 S:33 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,888.0,1.00%,F,T)



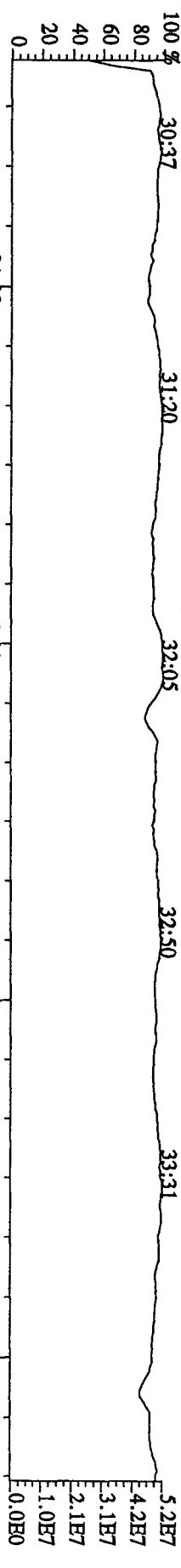
341.8567 S:33 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1612.0,1.00%,F,T)



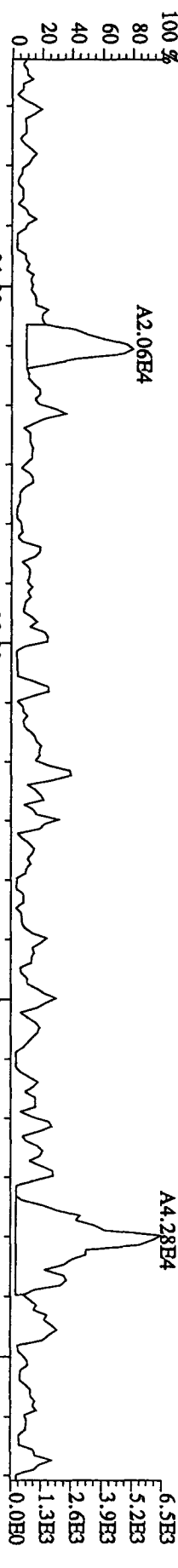
409.7974 S:33 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,88.0,1.00%,F,T)



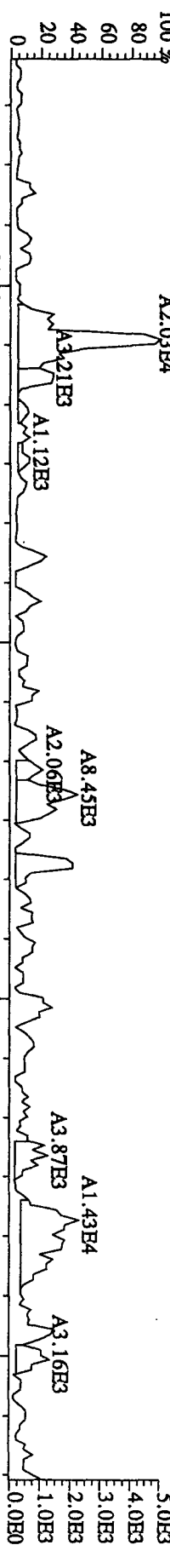
File:140C104D5 #1-287 Acq:15-OCT-2010 09:51:35 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#33 Text:L7CJR-1-AA :G0122000-350 (448MB) Exp:DIOXINRES  
 392.9760 S:33 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



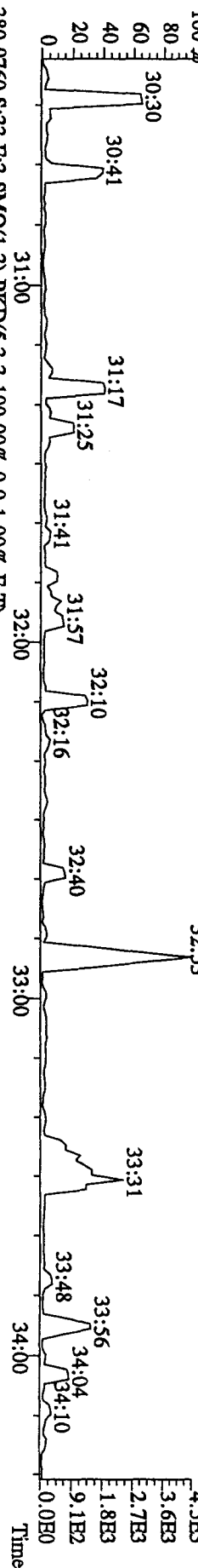
373.8208 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1140.0,1.00%,F,T)



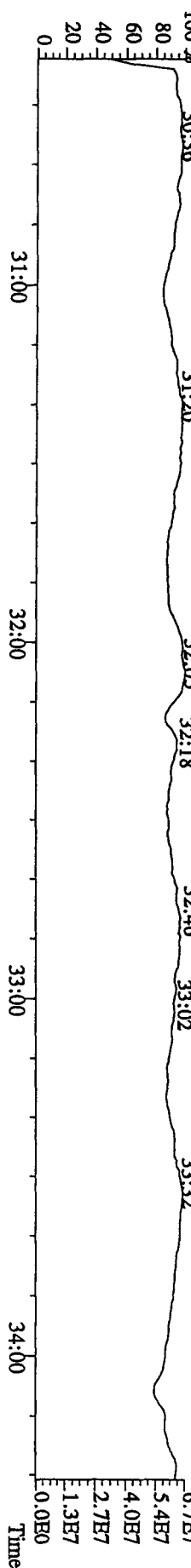
375.8178 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,684.0,1.00%,F,T)



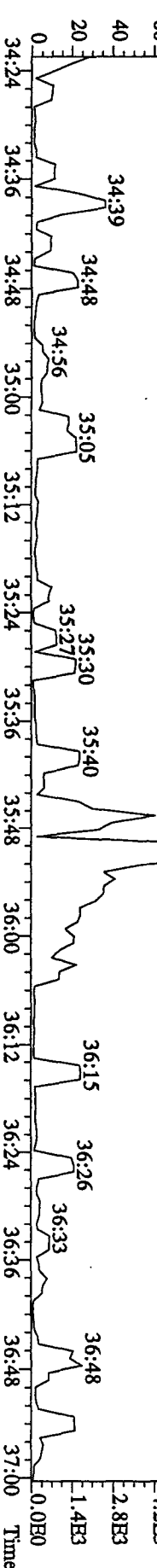
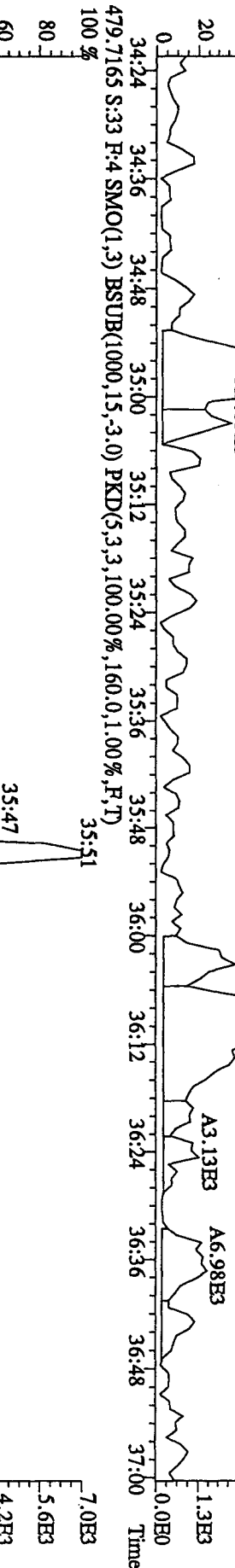
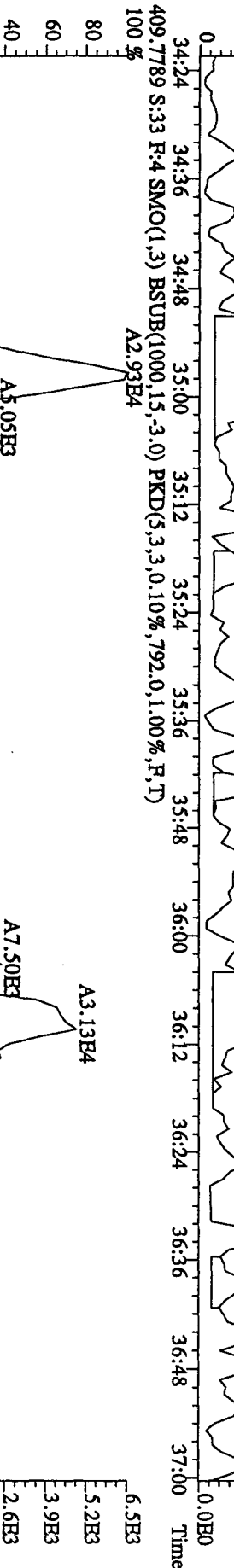
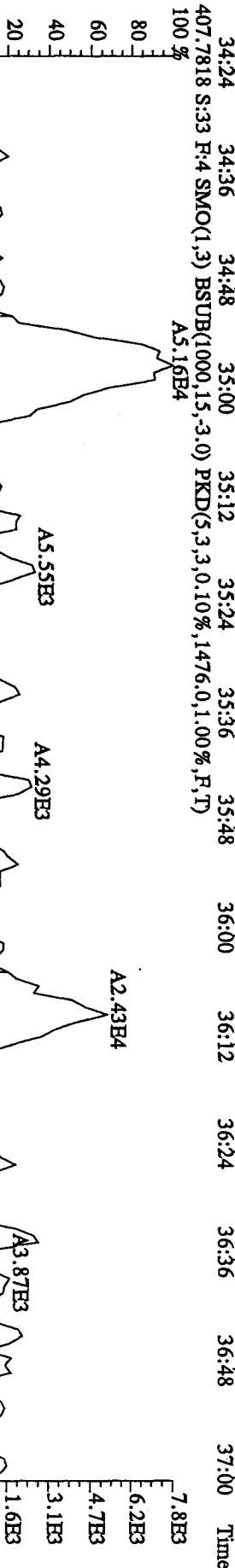
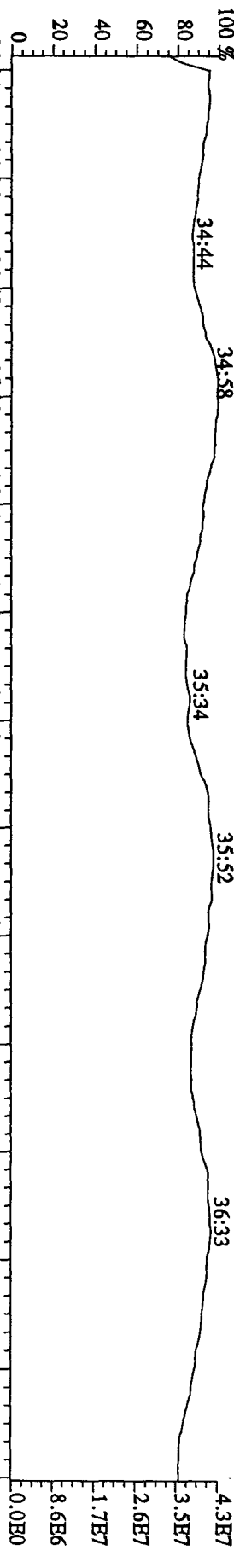
445.7555 S:33 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,140.0,1.00%,F,T)



380.9760 S:33 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

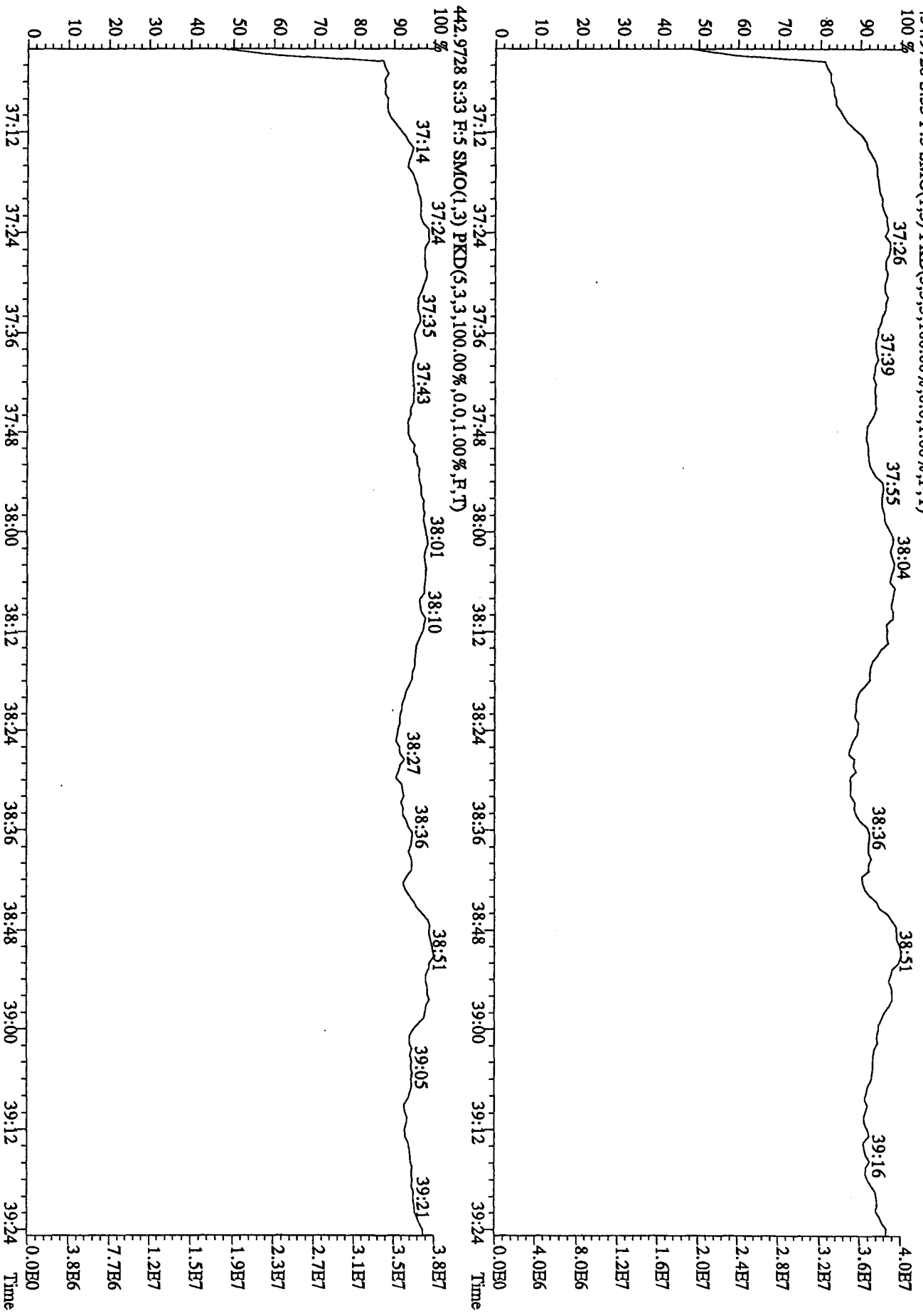


File:14OC104D5 #1-200 Acq:15-OCT-2010 09:51:35 GC EI+ Voltage SIR Autospec-UltraM  
 Sample#33 Text:L7CJR-1-AA :G01220000-350 (448MB) Exp:DIOXINRES  
 430.9728 S:33 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

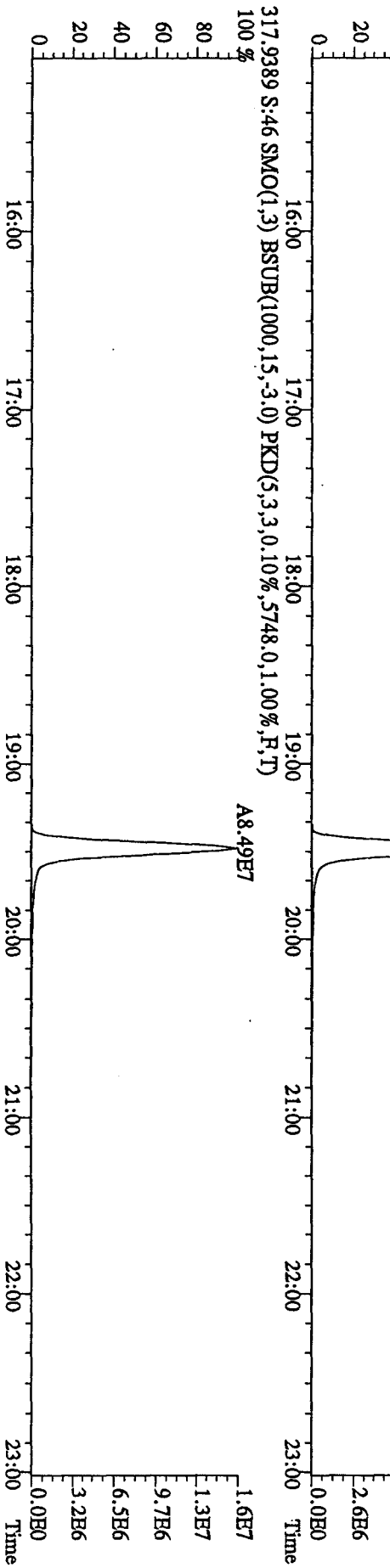
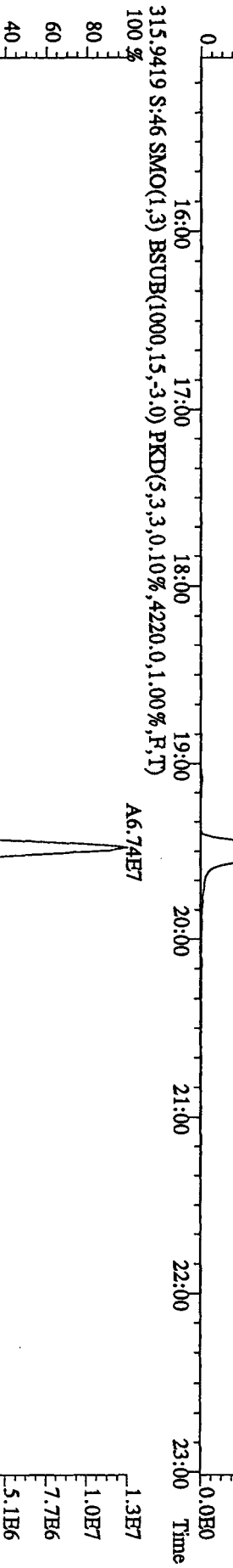
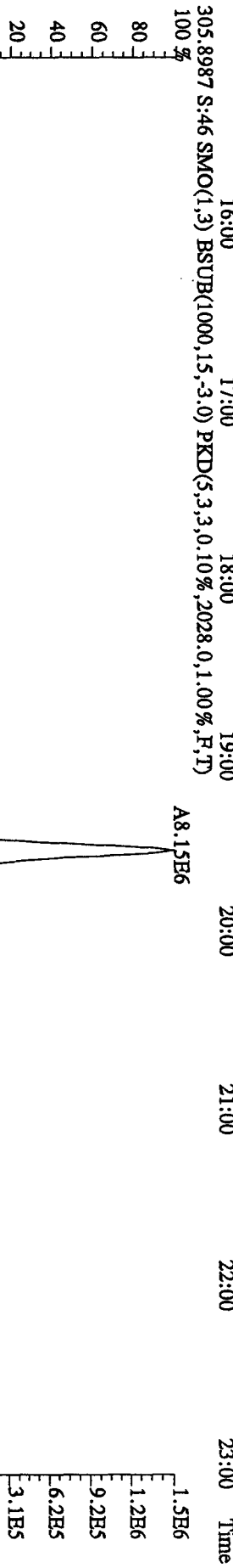
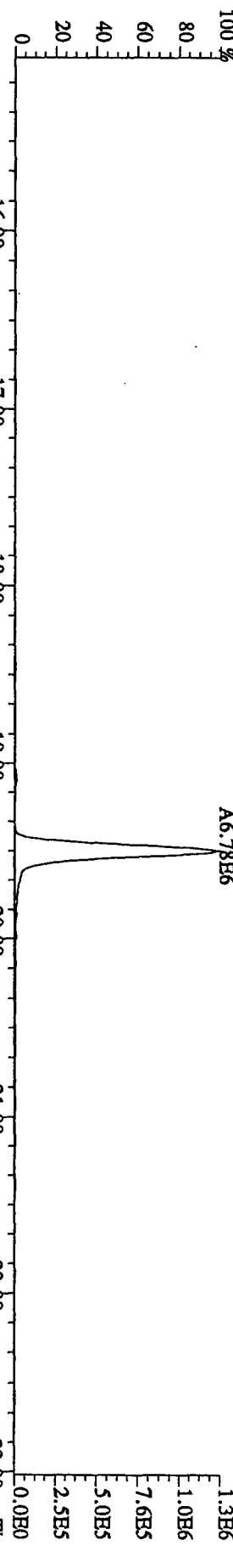




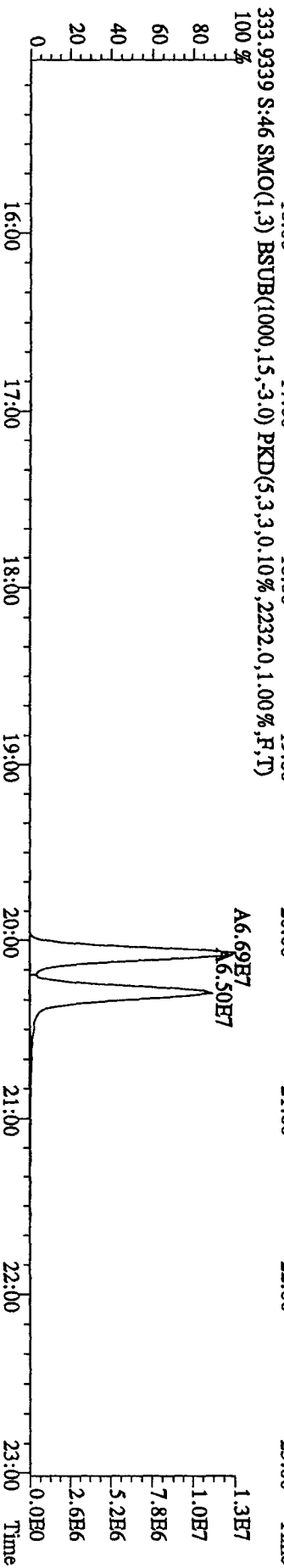
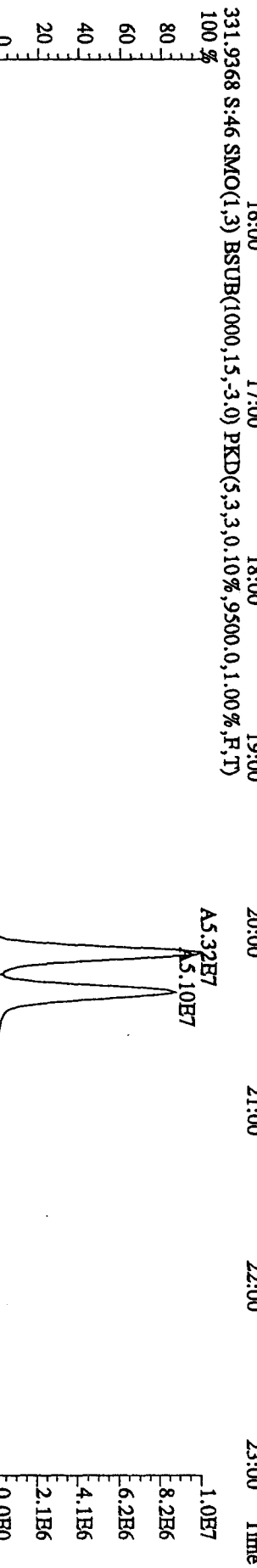
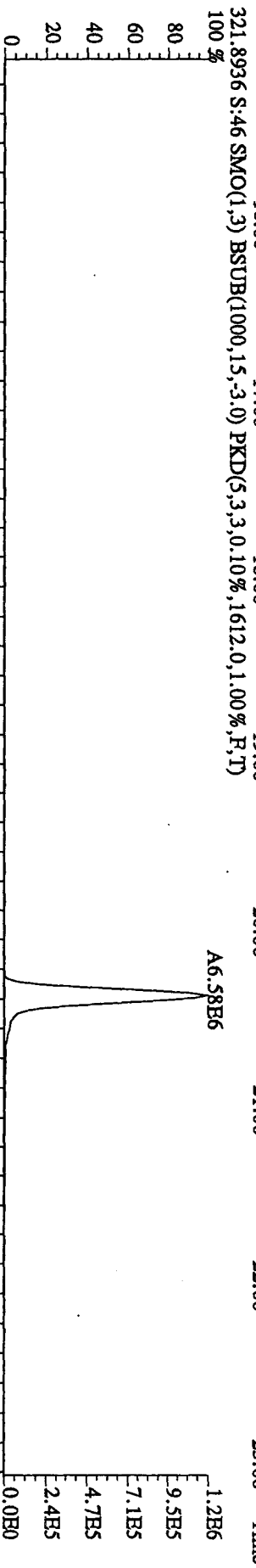
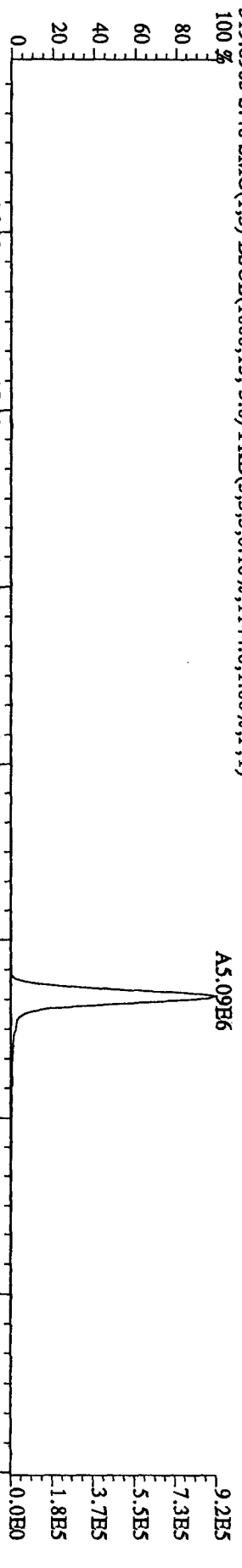
File:14OCT104D5 #1-193 Acq:15-OCT-2010 09:51:35 GC HI+ Voltage: SIR Autospec-UltimaB  
 Sample#33 Text:L7CIR-1-AA :G01220000-350 (448MB) Exp:DIOXINRES  
 454.9728 S:33 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



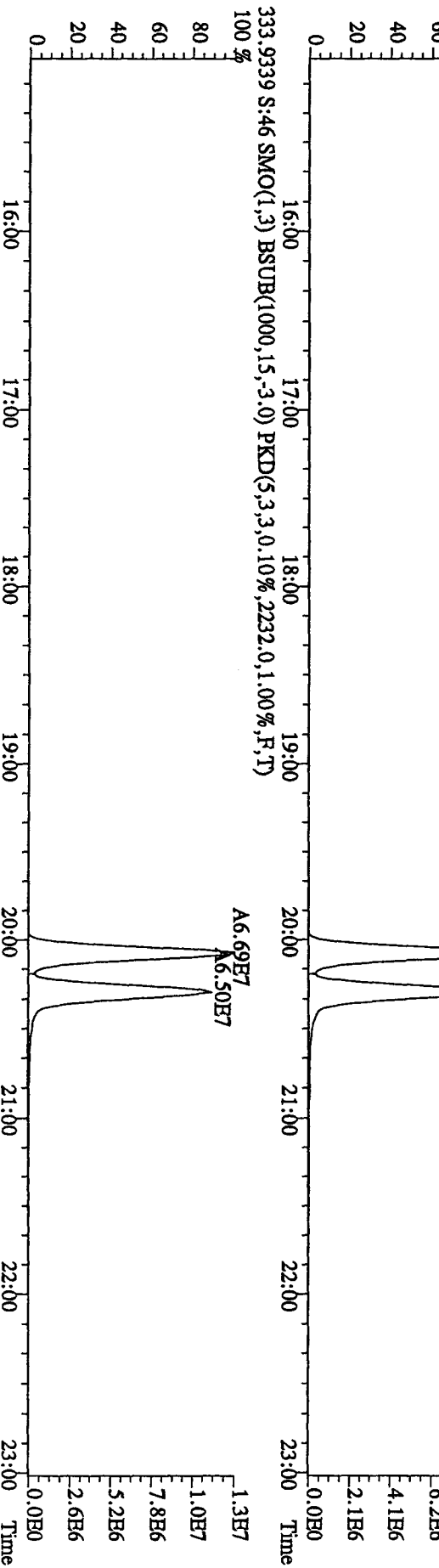
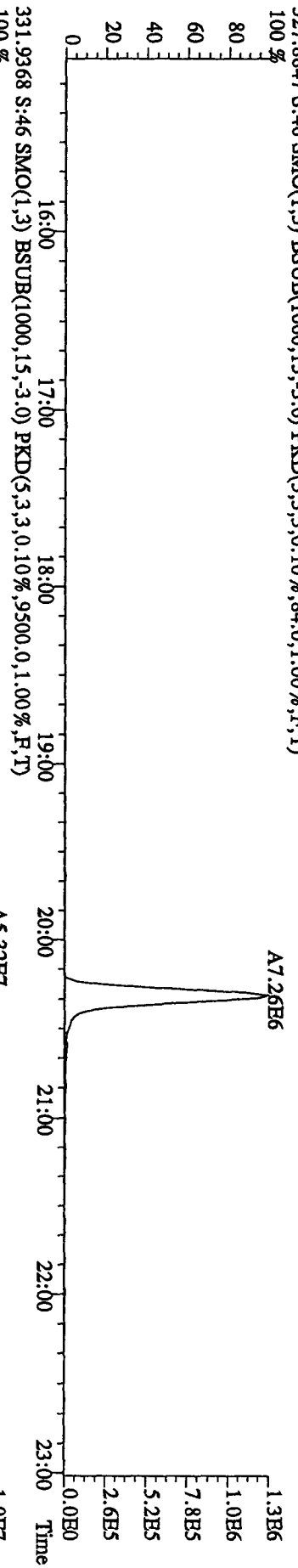
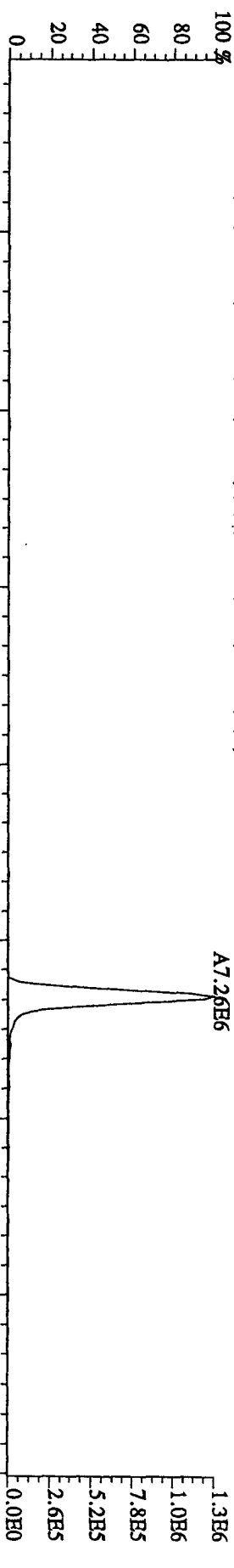
File:140C104D5 #1-530 Acq:15-OCT-2010 19:31:23 GC HI + Voltage SIR Autospec-UltimaB  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 303.9016 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,924.0,1.00%,F,T)



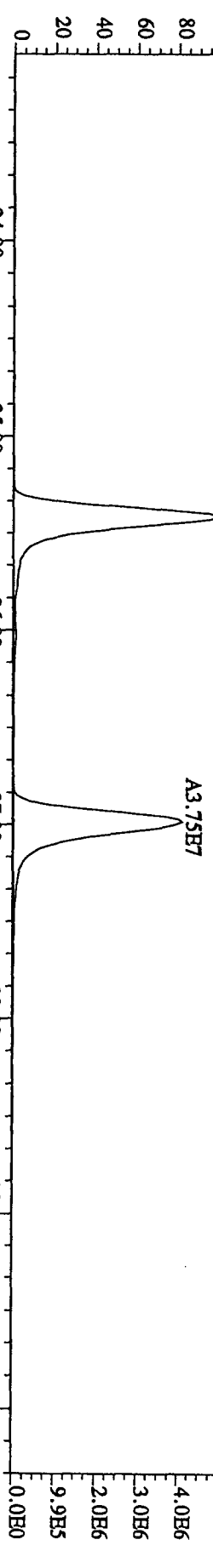
File:14OC104D5 #1-530 Acq:15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 319.8965 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1144.0,1.00%,F,T)



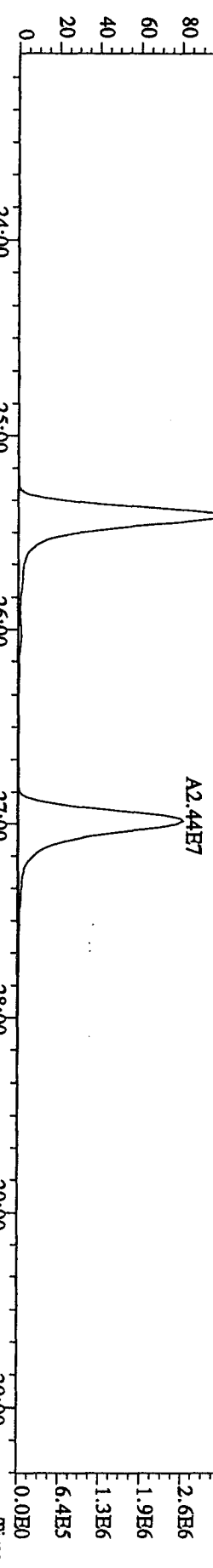
File: 14OC104D5 #1-530 Acq: 15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#46 Text: ST1014D :CS3 10DXN461 Exp: DIOXINRES  
 327.8847 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,84.0,1.00%,F,T)  
 100 %



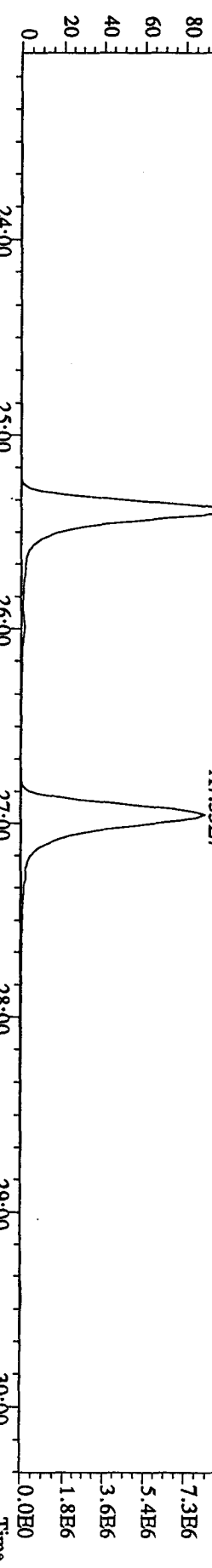
File:14OCT104D5 #1-469 Acq:15-OCT-2010 19:31:23 GC HI+ Voltage:51R Autospec-Ultimate  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 339.8597 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3540,0,1,00%,F,T)  
 100% A4.00E7



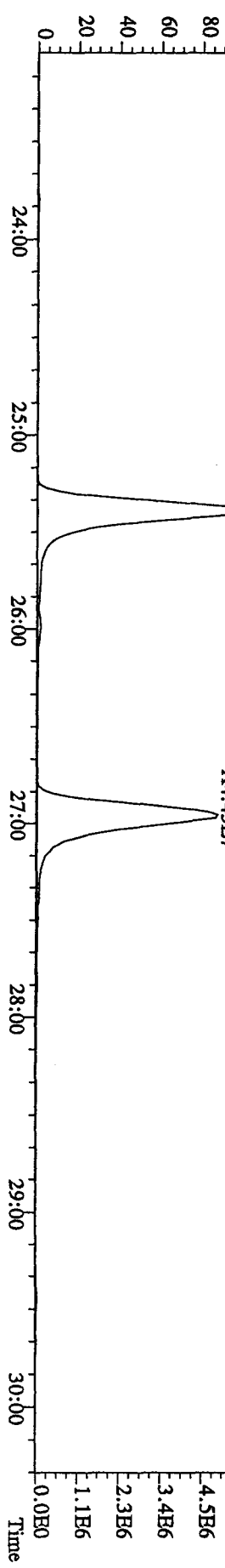
341.8567 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3988,0,1,00%,F,T)  
 100% A2.60E7



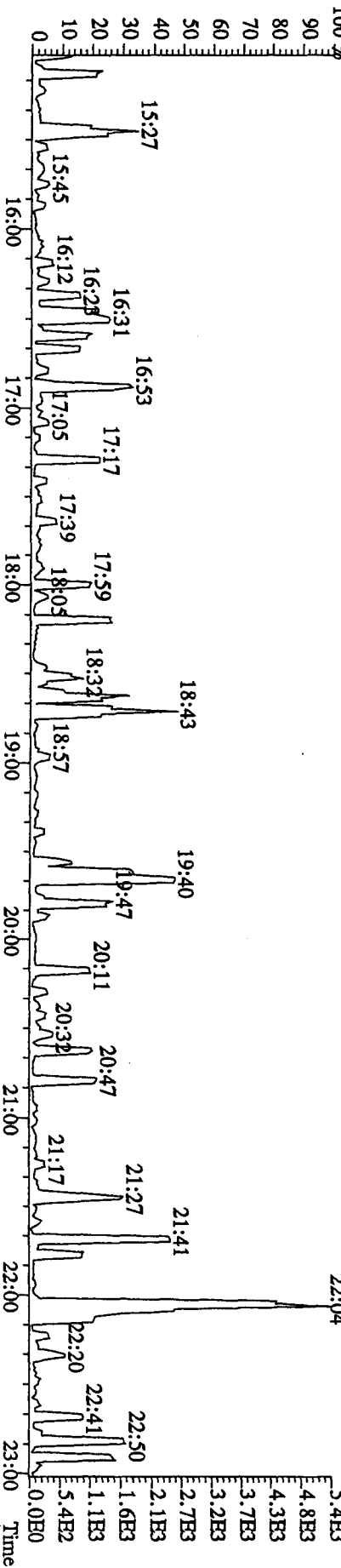
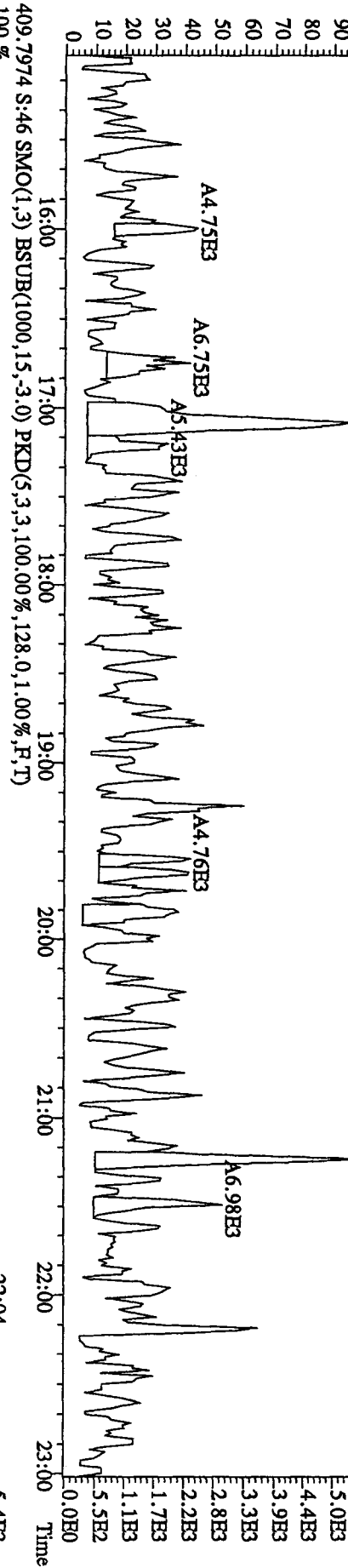
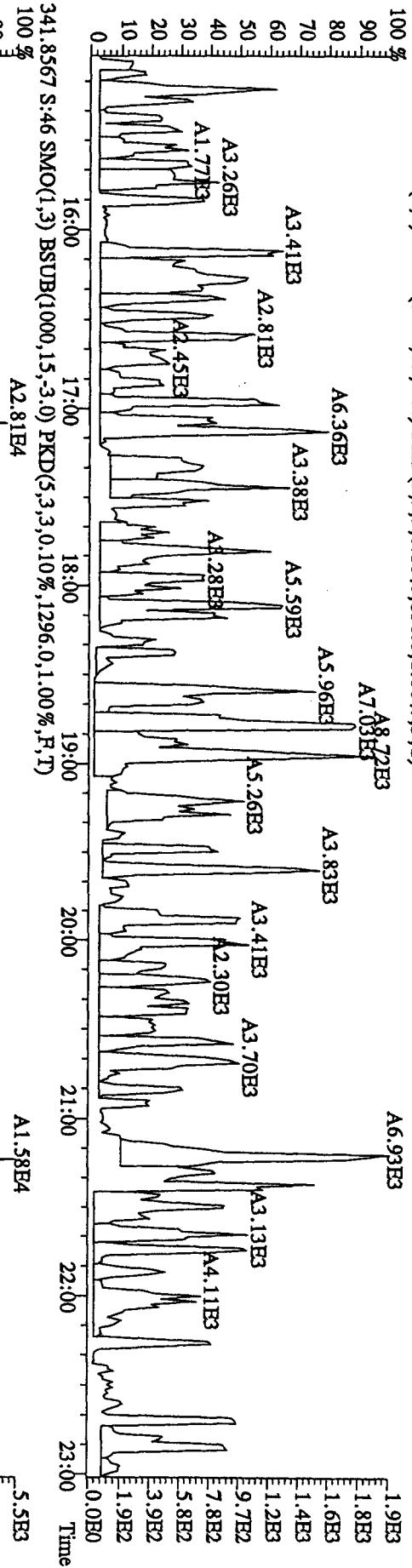
351.9000 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12632,0,1,00%,F,T)  
 100% A7.32E7



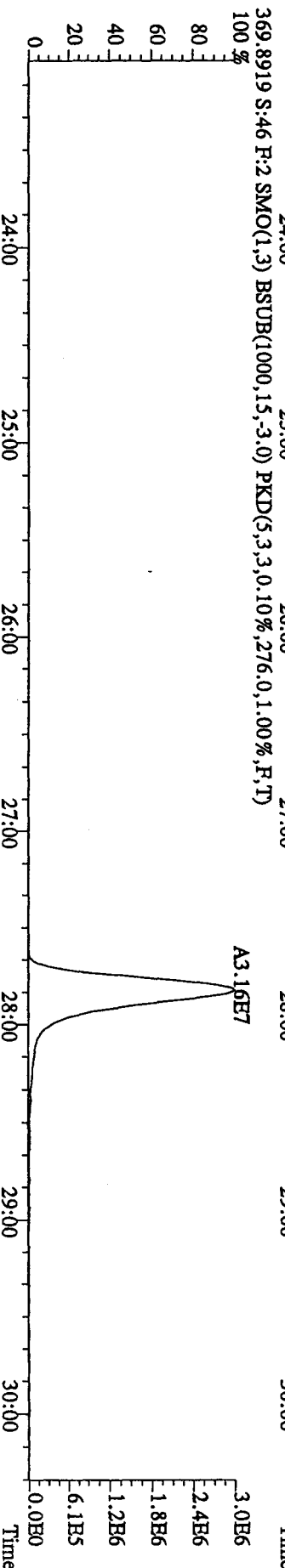
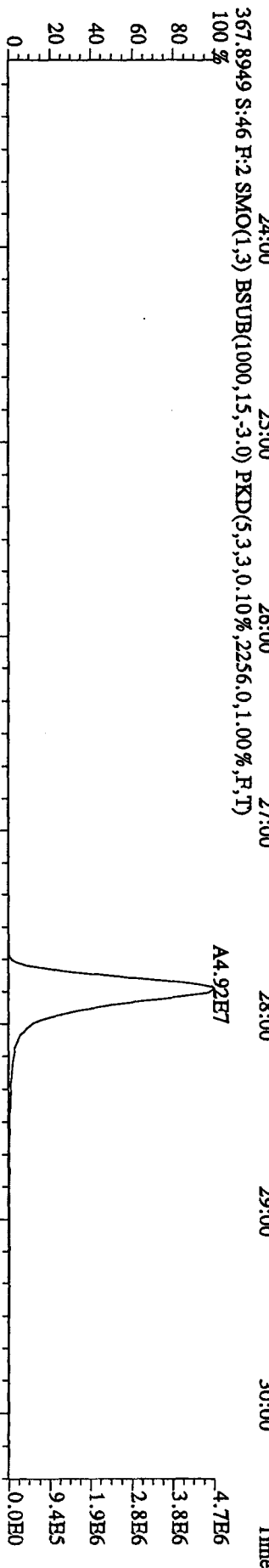
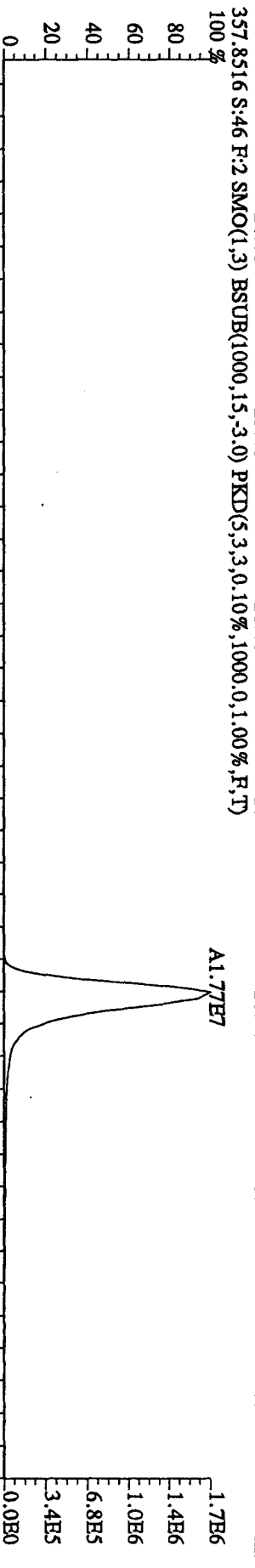
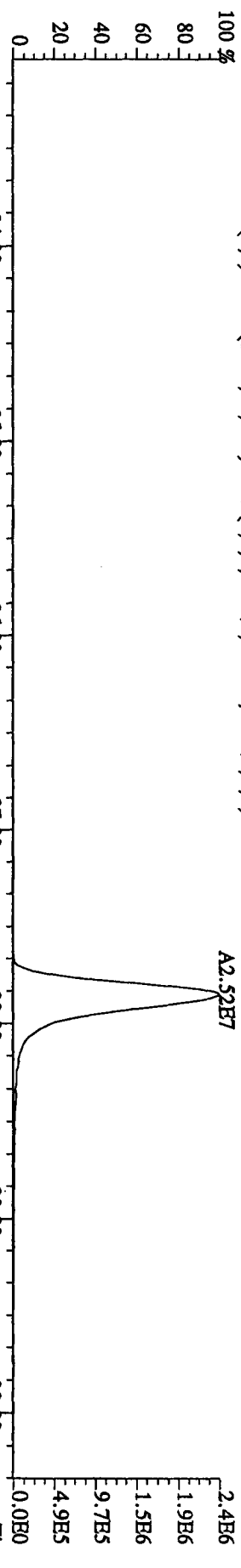
353.8970 S:46 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6576,0,1,00%,F,T)  
 100% A4.60E7



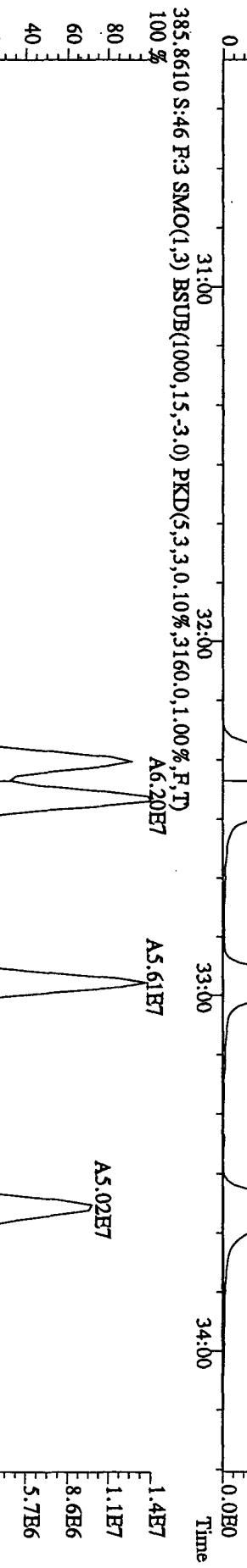
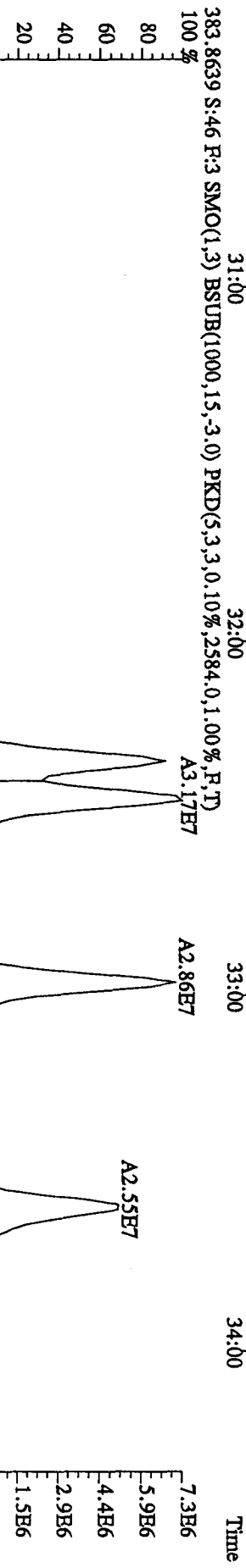
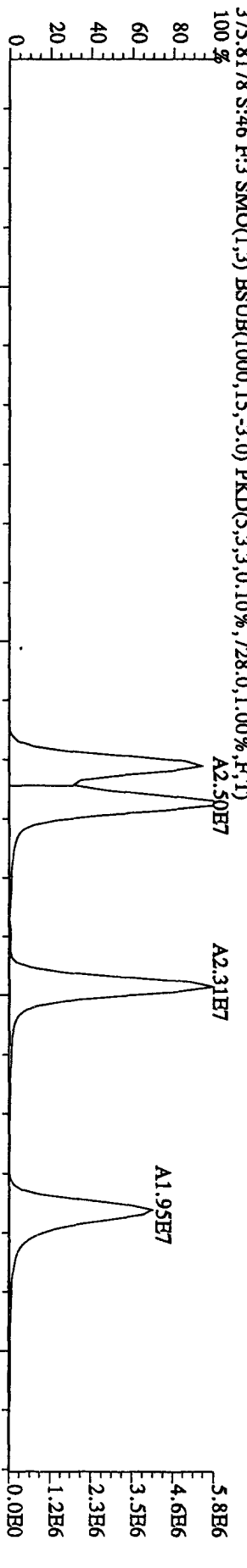
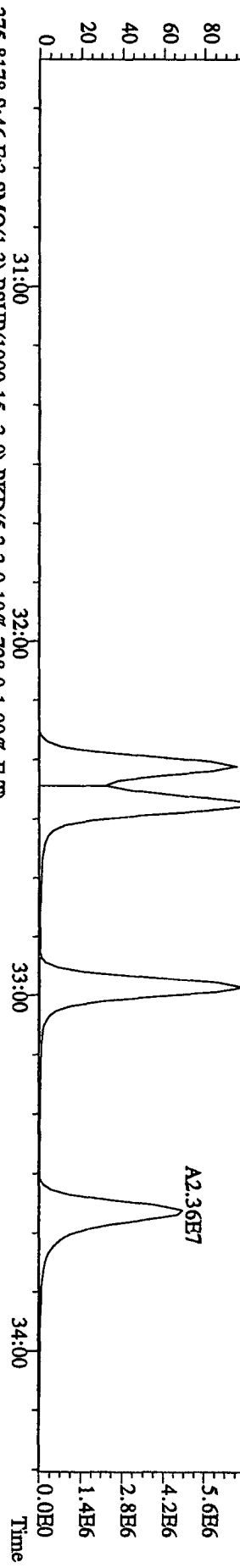
File:14OC104D5 #1-530 Acq:15-OCT-2010 19:31:23 GC BI+ Voltage SIR Autospec-Ultimate  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 339.8597 S:46 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,156.0,1.00%,F,T)



File:14OCT104D5 #1-469 Acq:15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 355.8546 S:46 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2092.0,1.00%,F,T)

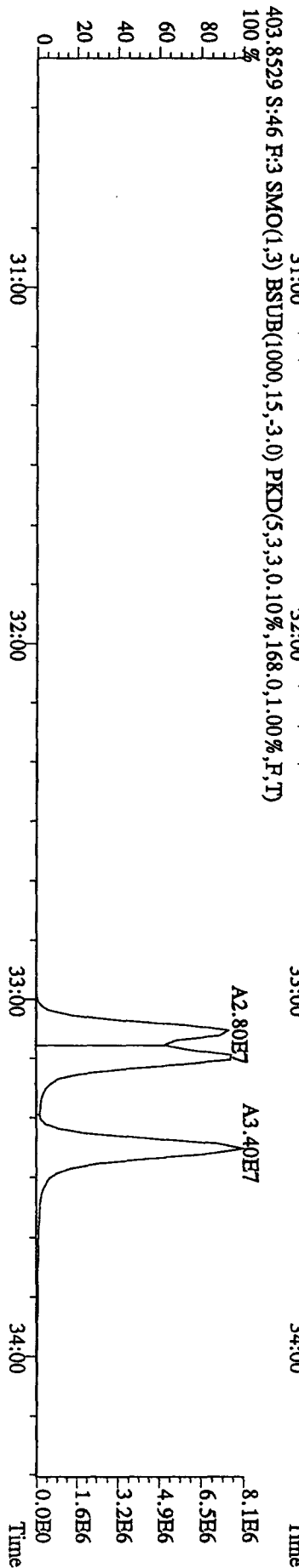
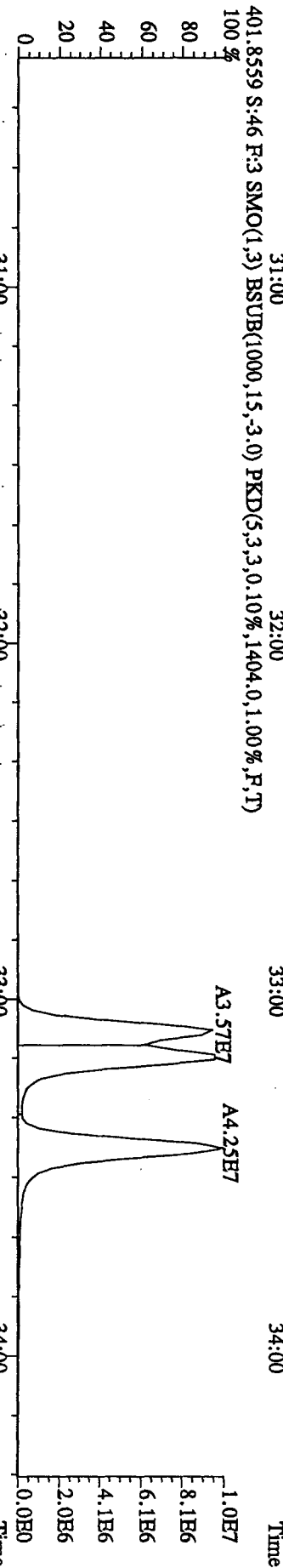
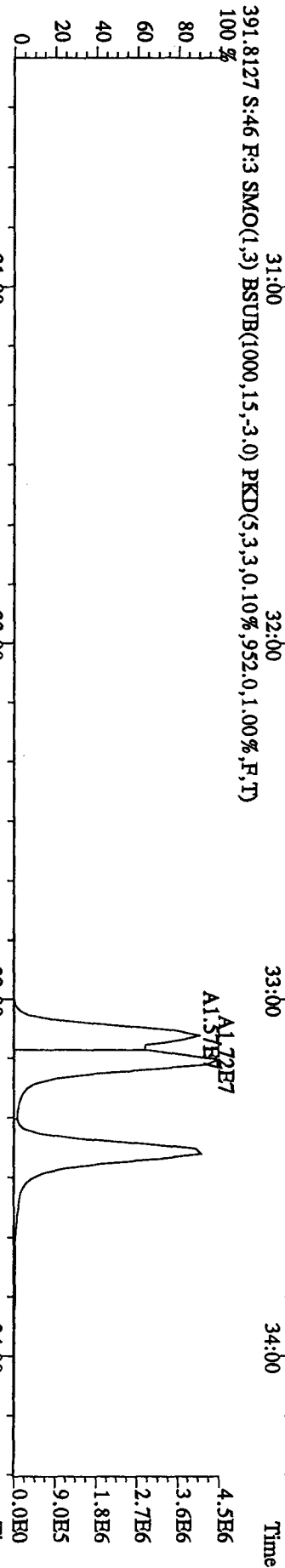
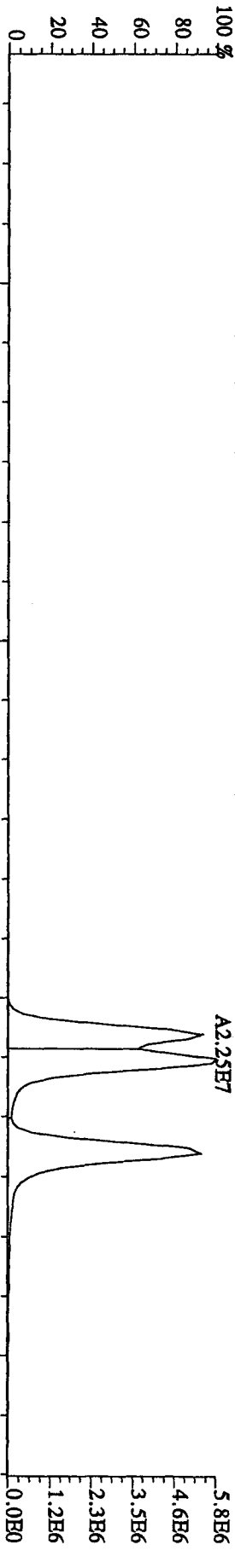


File:14OC104D5 #1-287 Acq:15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-UltraME  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 373.8208 S:46 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1452.0,1.00%,F,T)  
 100%

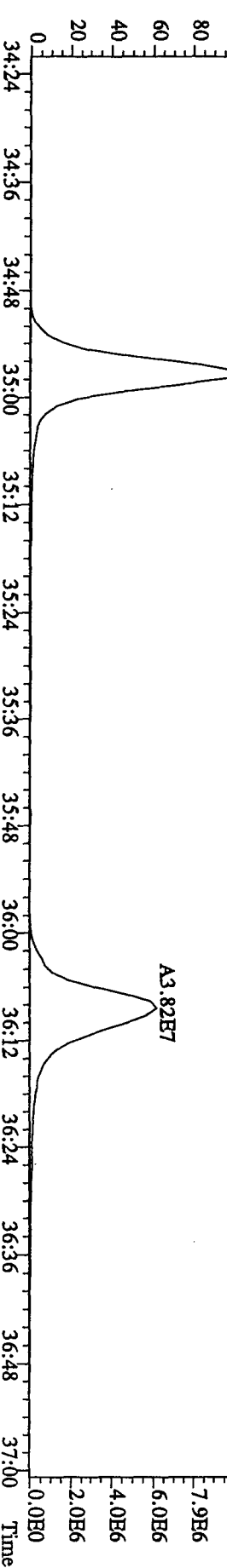
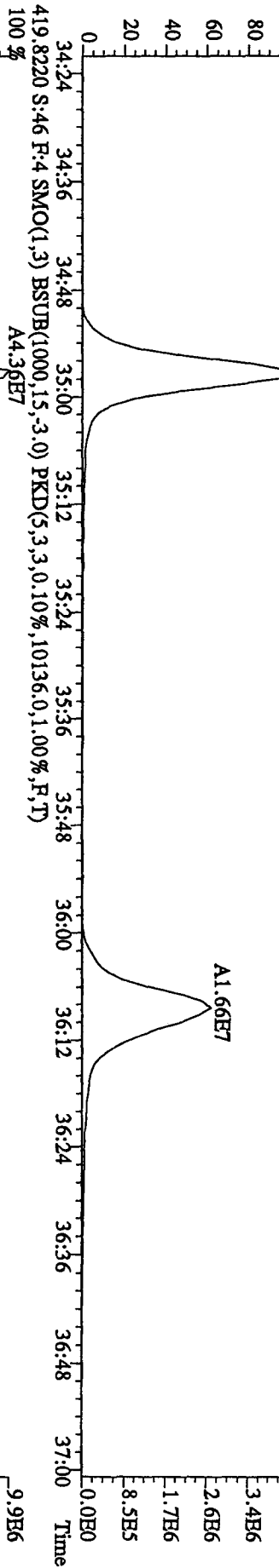
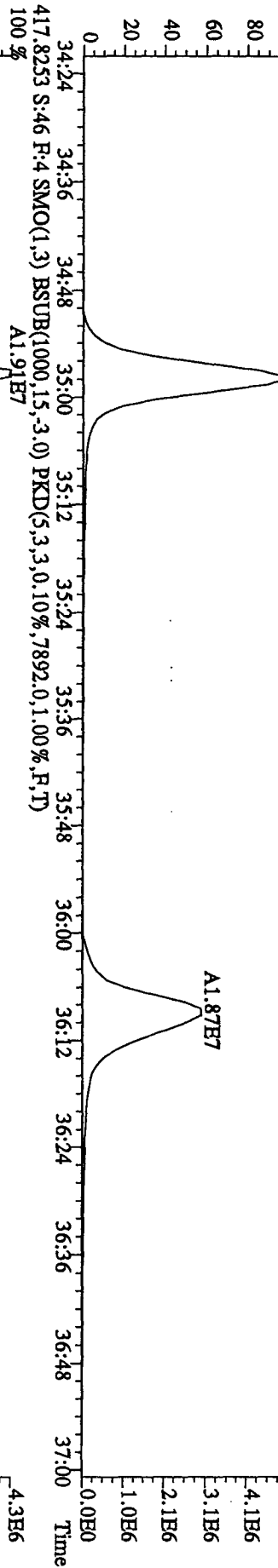
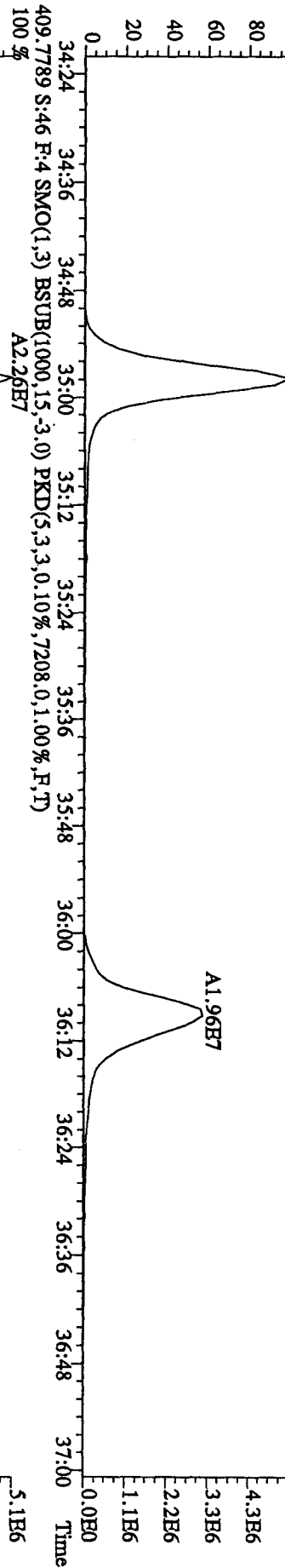




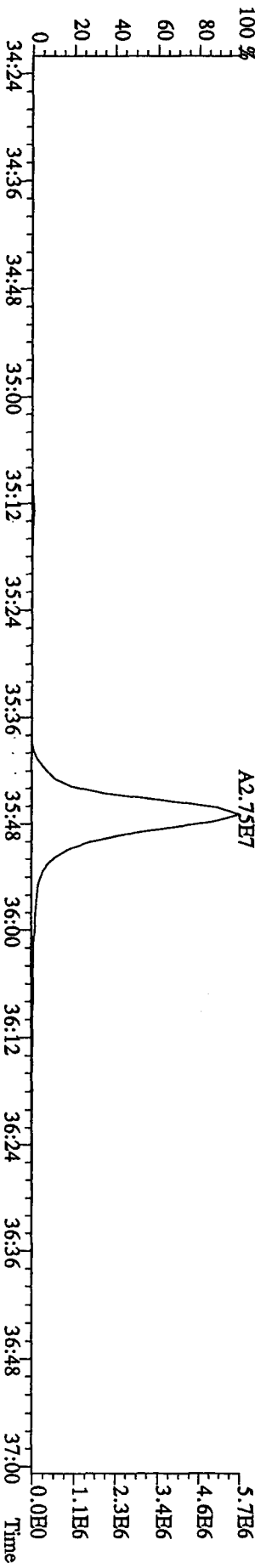
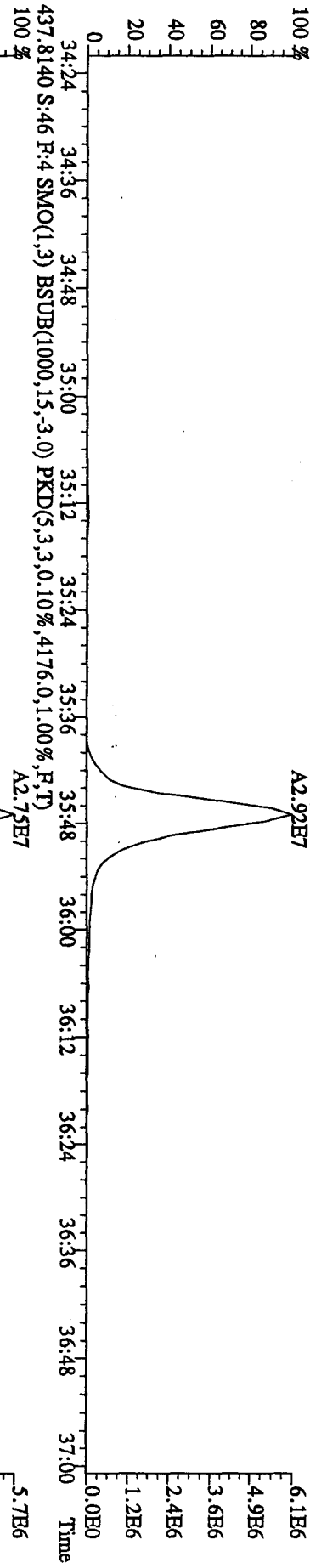
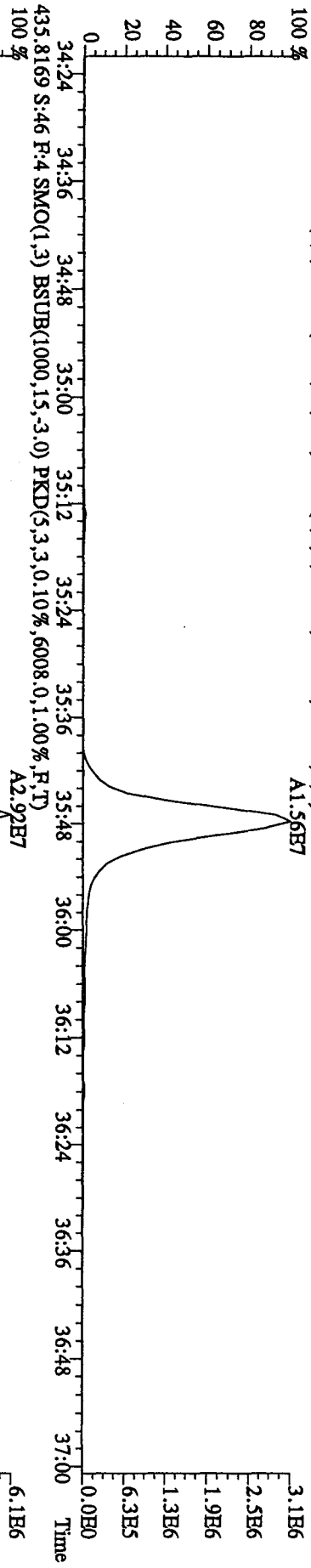
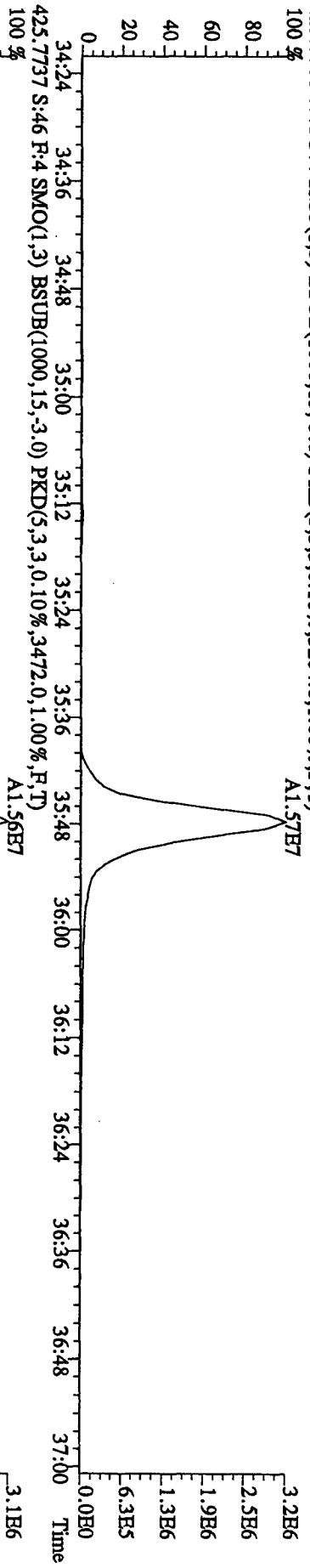
File:14OC104D5 #1-287 Acq:15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXNRES  
 389.8157 S:46 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,412.0,1.00%,F,T) 100 %



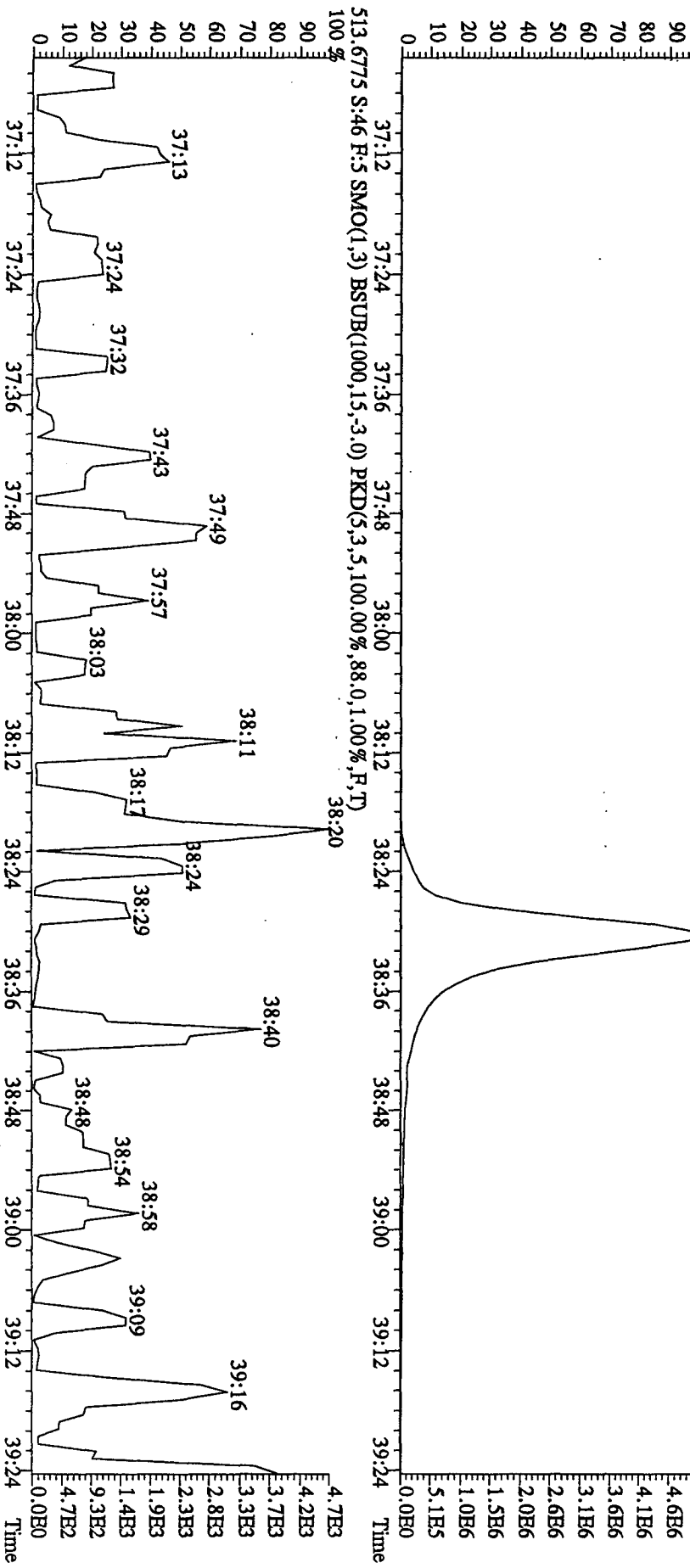
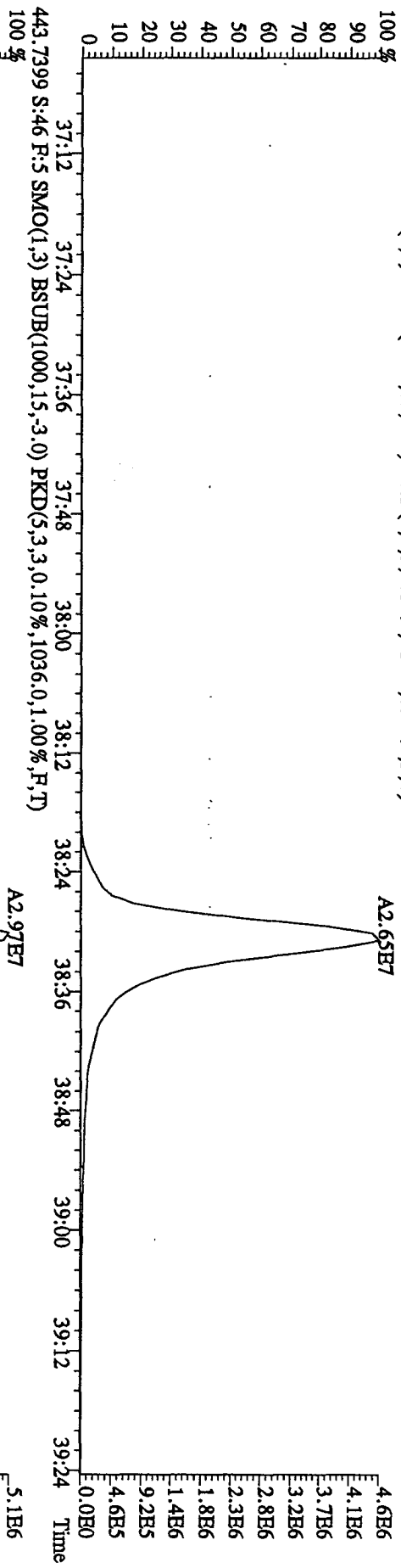
File:14OC104D5 #1-201 Acq:15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 407.7818 S:46 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7124.0,1.00%,F,T)  
 100%



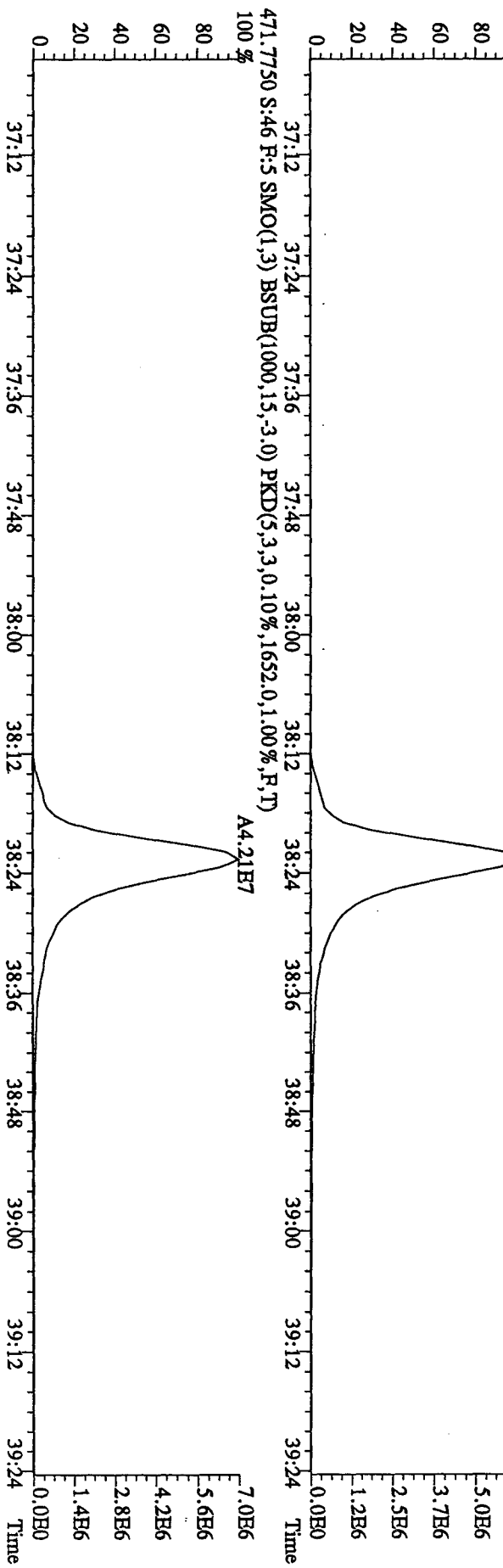
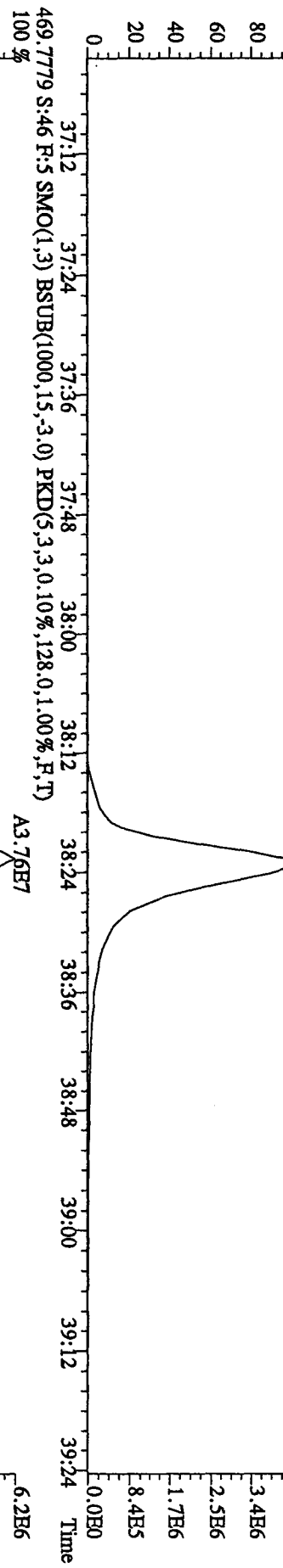
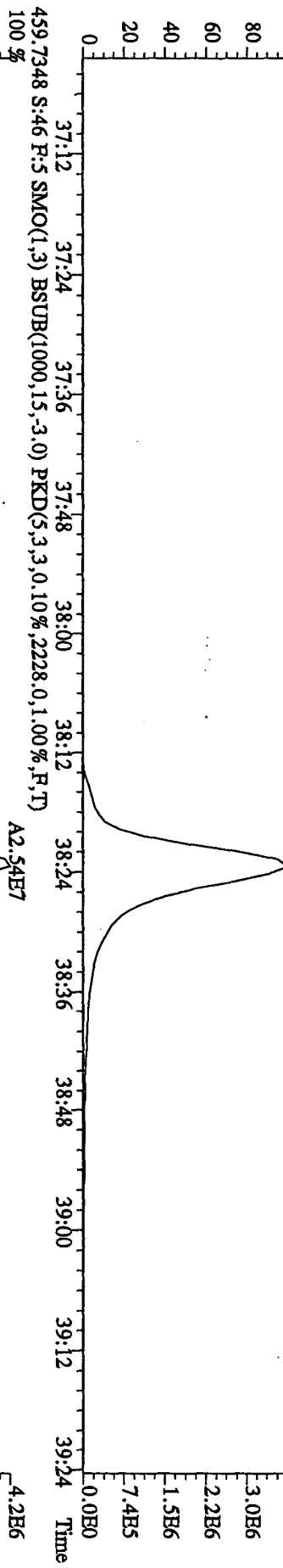
File:14OC104D5 #1-201 Acq:15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 423.7766 S:46 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3204.0,1.00%,F,T)  
 100 % A1.57E7

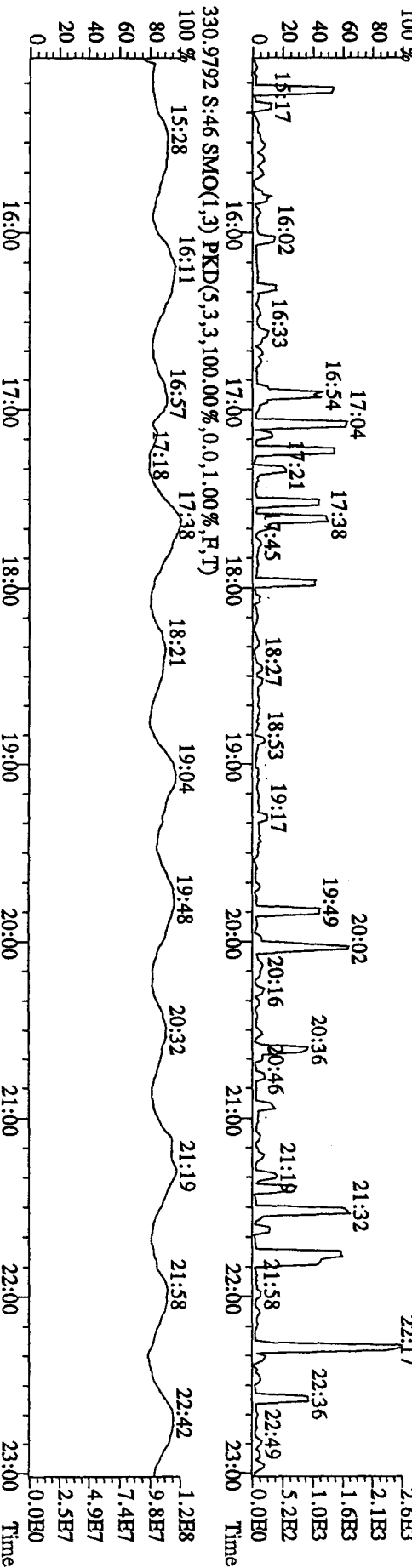
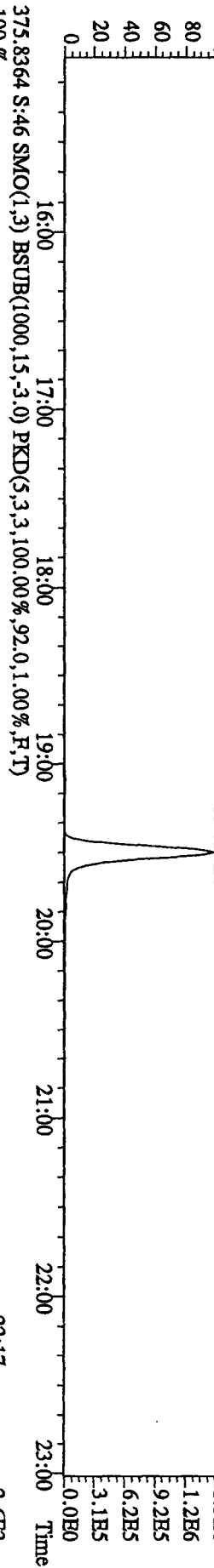
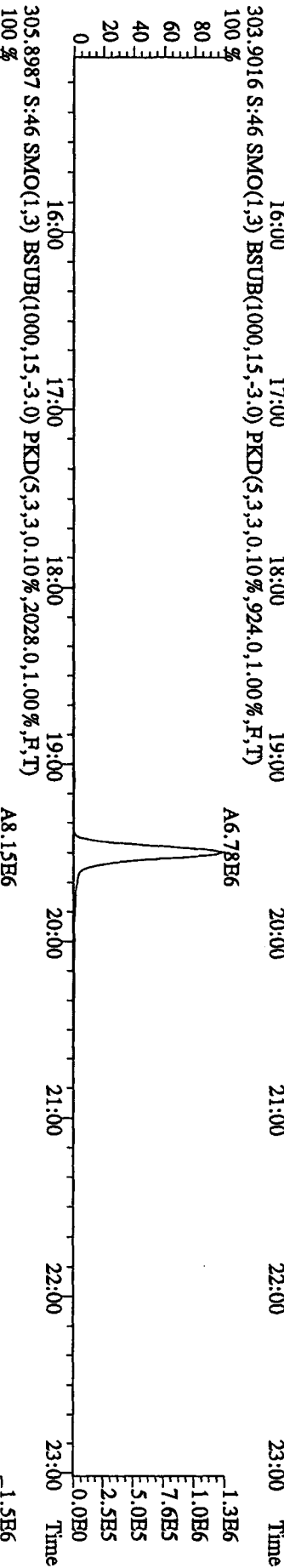
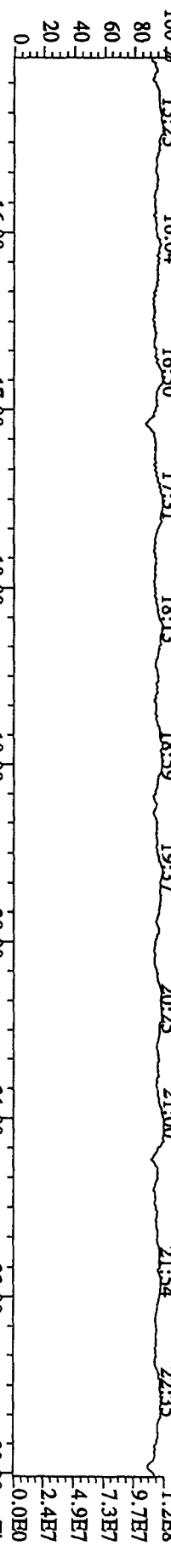


File:14OCT104D5 #1-192 Acq:15-OCT-2010 19:31:23 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 441.7428 S:46 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,816.0,1.00%,F,T)



File:140C104D5 #1-192 Acq:15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 457.7377 S:46 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1212.0,1.00%,F,T)

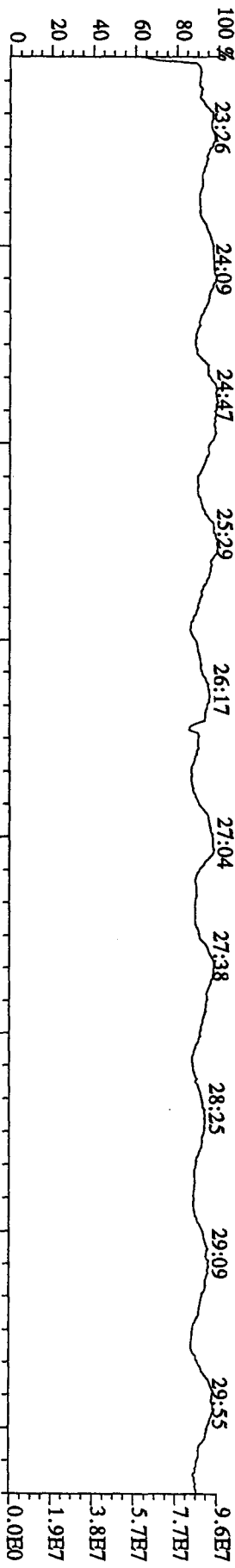




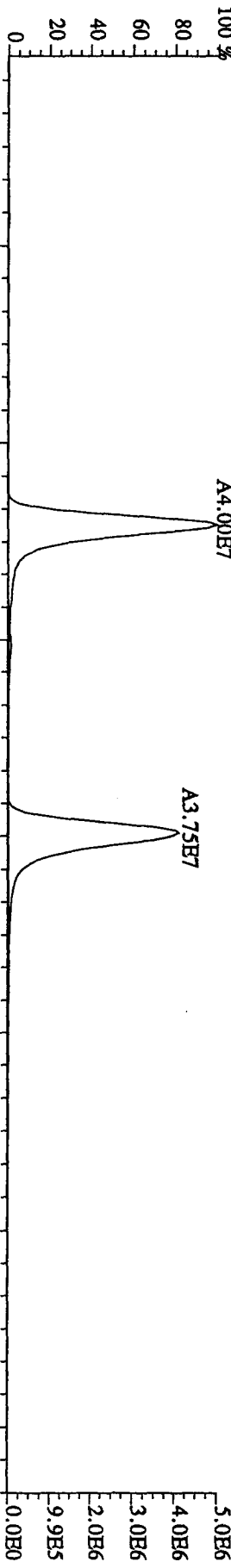
File: 14OCT104D5 #1-469 Acq: 15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-UltimaR

Sample#46 Text: ST1014D :CS3 10DXN461 Exp: DIOXINRES

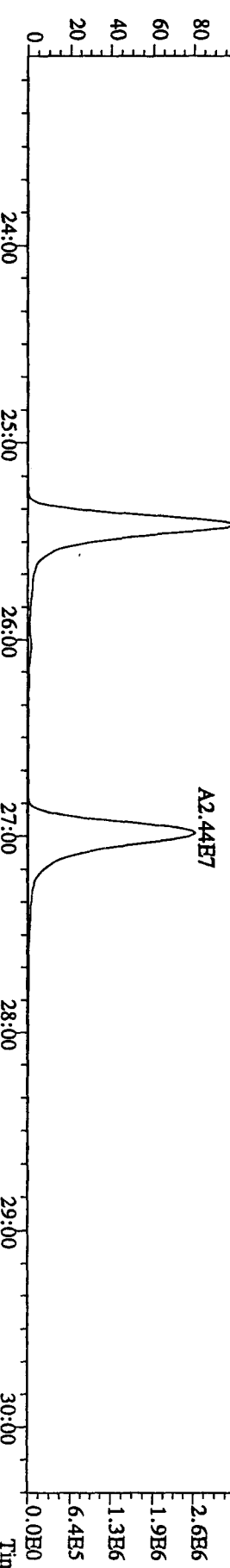
342.9792 S:46 F:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



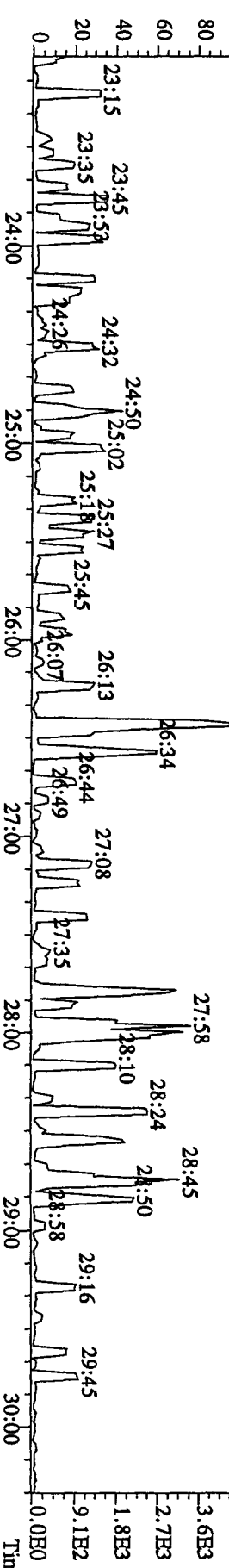
339.8597 S:46 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,3540,0.1,00%,F,T)



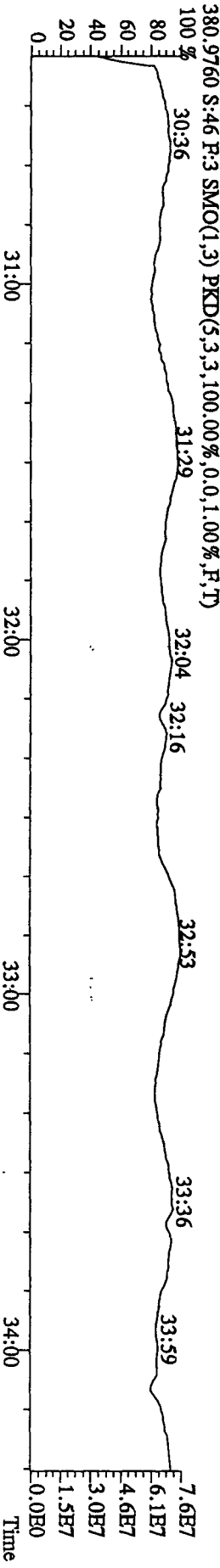
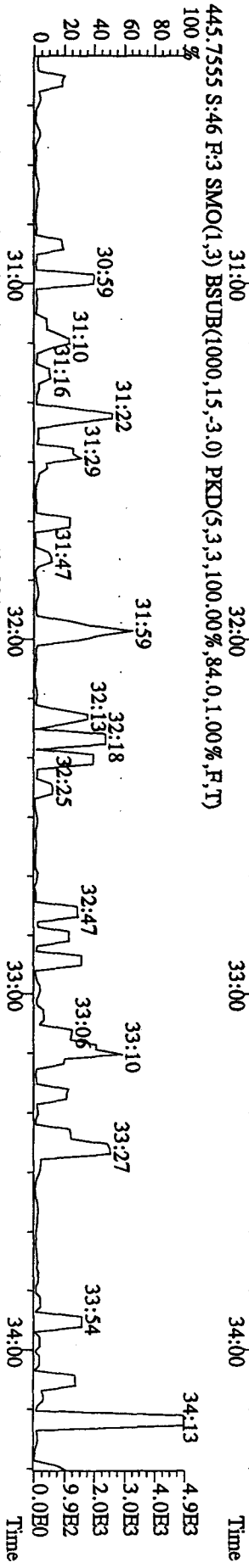
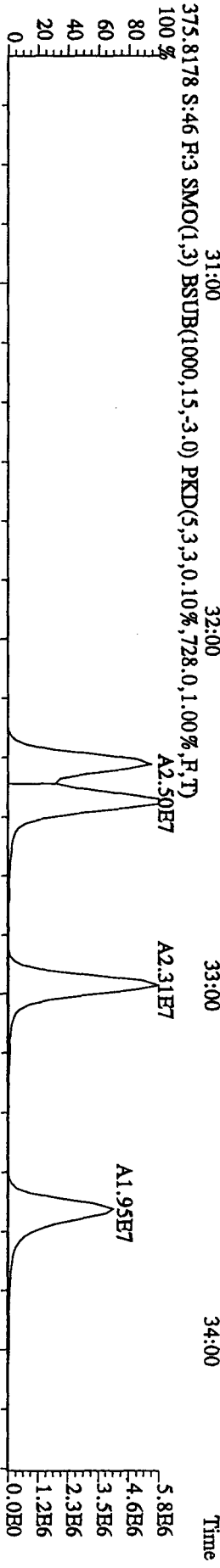
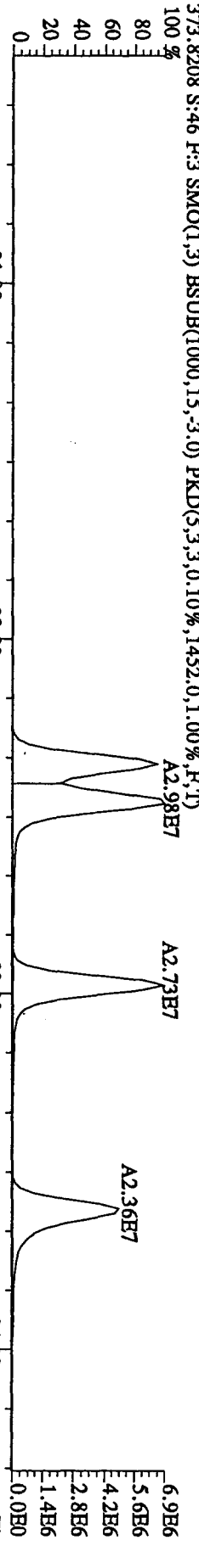
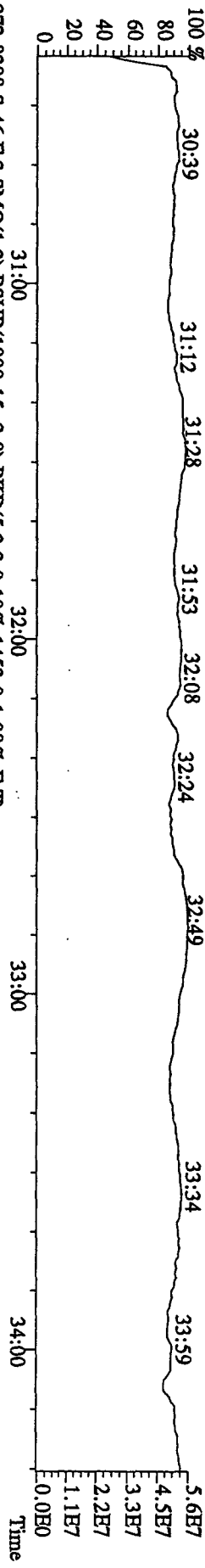
341.8567 S:46 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,3988,0.1,00%,F,T)



409.7974 S:46 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,100,0.1,00%,F,T)

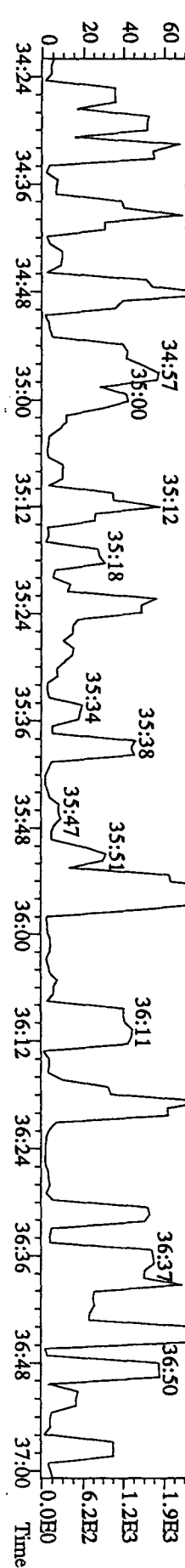
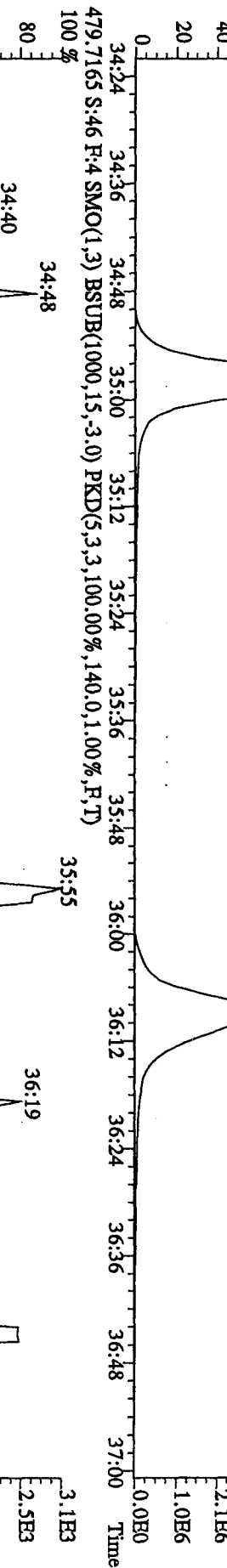
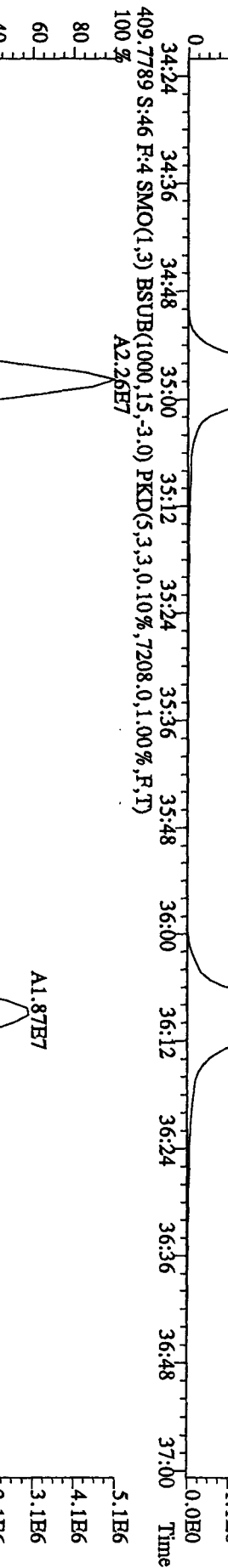
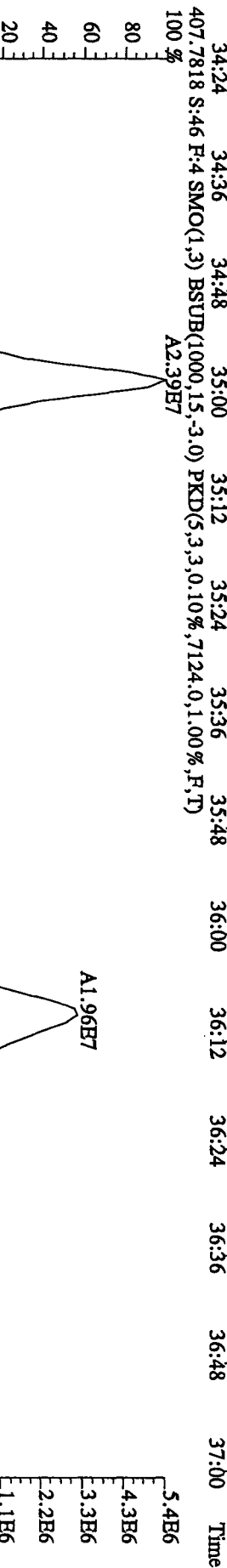
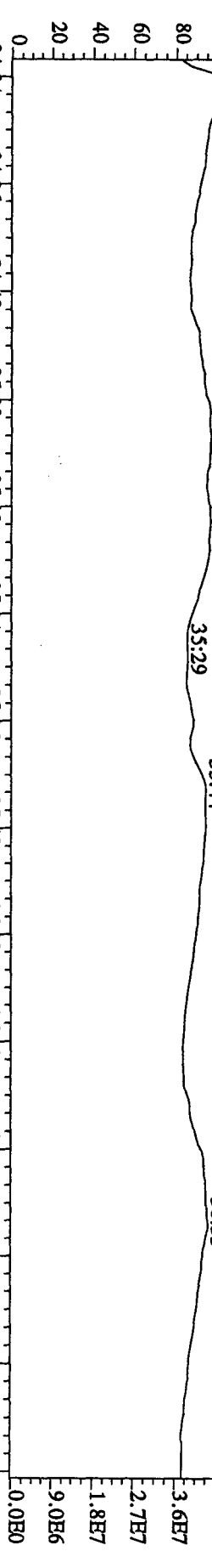


File: 140C104D5 #1-287 Acq:15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 392.9760 S:46 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

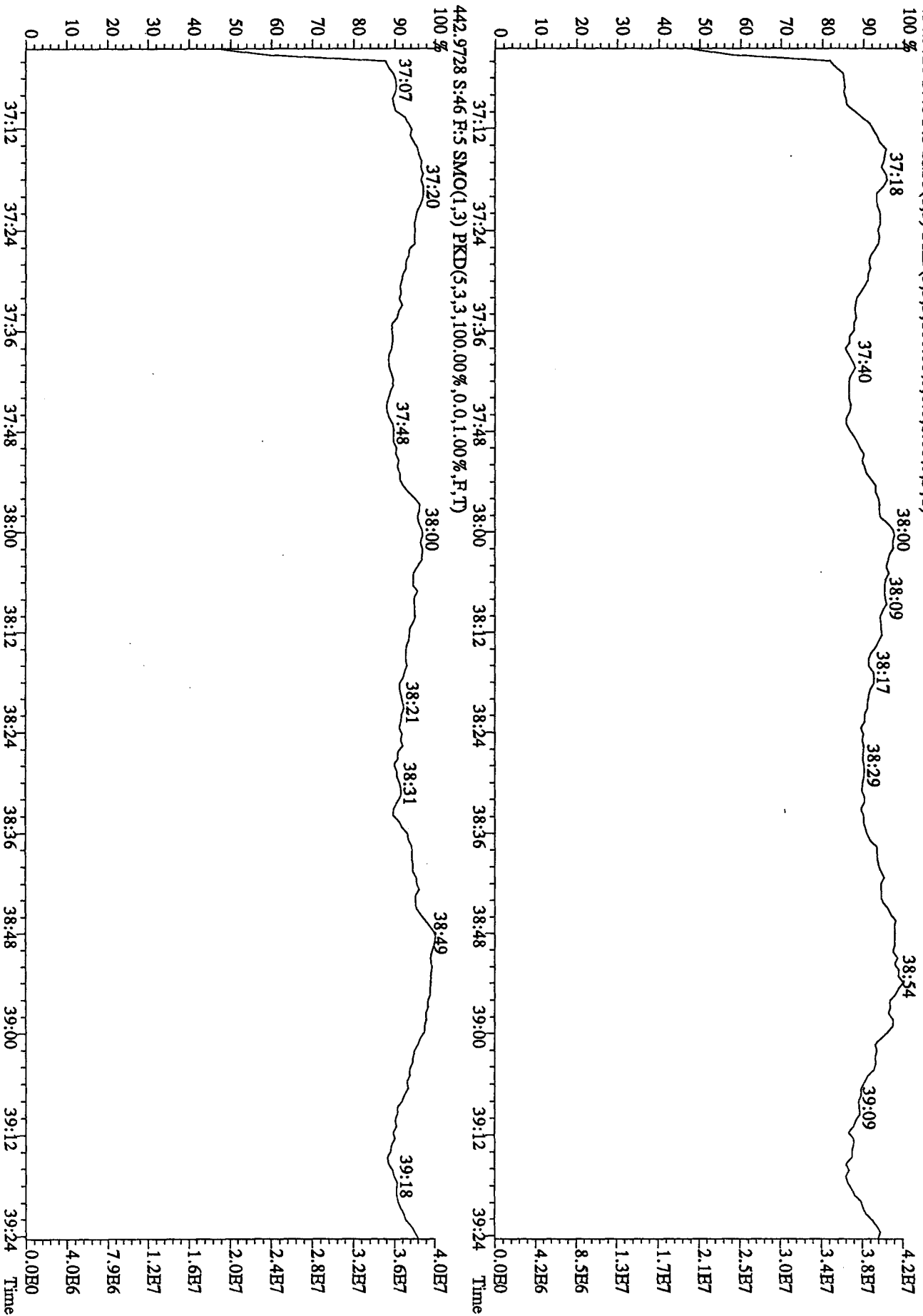




File:140C104D5 #1-201 Acq:15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 430.9728 S:46 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 284.24 35:04 35:29 35:44 36:33



File:14OC104D5 #1-192 Acq:15-OCT-2010 19:31:23 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#46 Text:ST1014D :CS3 10DXN461 Exp:DIOXINRES  
 454.9728 S:46 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



# **Initial Calibration**

***Includes (as applicable):***

***runlog***

***standard raw data***

***statistical summary***

***ms tune data***

Initial Calibration Checklist  
Dioxin Methods

ICAL ID 8290, 1613, 0023A, 23, TO9, Tetras 0721104D5  
 Method ID 8290, 1613, 0023A, 23, TO9, Tetras Date Scanned \_\_\_\_\_  
                   8290A  
 Column ID DB5 Instrument ID 405  
 STD ID's ST0721A → ST0721E STD Solution (10DXN) 334, 336, 337, 339, 342  
 GC Program OCDD Multiplier Setting 4-10 KV  
 Analyzed By KSS Date Analyzed 07-21-10  
 Prepared By KSS Date Prepared 07-22-10  
 Reviewed By JRB Date Reviewed 7/22/10

|   |   |   |
|---|---|---|
| Curve summary present?                                  | ✓ | ✓ |
| Hardcopies of chromatograms for CS1-CS5 present?        | ✓ | ✓ |
| Copy of log-file present?                               | ✓ | ✓ |
| Static resolution check present?                        | ✓ | ✓ |
| Target file RT's correct?                               | ✓ | ✓ |
| %RSD within method-specified limits?*                   | ✓ | ✓ |
| Signal-to-noise criteria met?                           | ✓ | ✓ |
| Isotopic ratios within limits?                          | ✓ | ✓ |
| High point free of saturation?                          | ✓ | ✓ |
| Are chromatographic windows correct?                    | ✓ | ✓ |
| Manual reintegration's checked and hardcopies included? | ✓ | ✓ |

COMMENTS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\*Method 8290/TO9/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N ≥10  
 Method 1613B: %RSD ≤ 20% natives, ≤30% labeled compounds; S/N ≥10  
 Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

Run: 159E098D2 Analyte: 8290 Cal: 82900721104D5

ST0721A : CS-1 10DXN342 ST0721B : CS-2 10DXN334 ST0721C : CS-3 10DXN336  
 ST0721E : CS-4 10DXN337 ST0721D : CS-5 10DXN339

21JL10A4D5 21JL10A4D5 21JL10A4D5 21JL10A4D5 21JL10A4D5 21JL10A4D5

| Name                  | Mean  | S. D. | %RSD   | RRF1 | RRF2 | RRF3 | RRF4 | RRF5 |
|-----------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,4-TCDD      | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-2,3,7,8-TCDF      | 1.229 | 0.154 | 12.5 % | 1.30 | 1.31 | 1.39 | 1.11 | 1.03 |
| 2,3,7,8-TCDF          | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 1.03 | 0.97 |
| Total TCDF            | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 1.03 | 0.97 |
| 13C-2,3,7,8-TCDD      | 0.905 | 0.029 | 3.25 % | 0.92 | 0.92 | 0.94 | 0.87 | 0.88 |
| 2,3,7,8-TCDD          | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.02 | 1.01 |
| Total TCDD            | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.02 | 1.01 |
| 37Cl-2,3,7,8-TCDD     | 1.200 | 0.034 | 2.80 % | 1.22 | 1.21 | 1.24 | 1.15 | 1.19 |
| 13C-1,2,3,7,8-PeCDF   | 0.876 | 0.018 | 2.08 % | 0.86 | 0.90 | 0.86 | 0.87 | 0.89 |
| 1,2,3,7,8-PeCDF       | 1.077 | 0.042 | 3.92 % | 1.03 | 1.04 | 1.08 | 1.12 | 1.11 |
| 2,3,4,7,8-PeCDF       | 1.046 | 0.040 | 3.80 % | 1.00 | 1.02 | 1.08 | 1.09 | 1.04 |
| Total F2 PeCDF        | 1.061 | 0.039 | 3.67 % | 1.01 | 1.03 | 1.08 | 1.10 | 1.08 |
| Total F1 PeCDF        | 1.061 | 0.039 | 3.67 % | 1.01 | 1.03 | 1.08 | 1.10 | 1.08 |
| 13C-1,2,3,7,8-PeCDD   | 0.661 | 0.010 | 1.45 % | 0.65 | 0.66 | 0.67 | 0.65 | 0.67 |
| 1,2,3,7,8-PeCDD       | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.97 | 0.95 |
| Total PeCDD           | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.97 | 0.95 |
| 13C-1,2,3,7,8,9-HxCDD | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-1,2,3,4,7,8-HxCDF | 1.045 | 0.067 | 6.44 % | 1.03 | 1.15 | 0.98 | 1.07 | 1.00 |
| 1,2,3,4,7,8-HxCDF     | 1.217 | 0.012 | 1.02 % | 1.21 | 1.20 | 1.22 | 1.23 | 1.22 |
| 1,2,3,6,7,8-HxCDF     | 1.282 | 0.089 | 6.95 % | 1.19 | 1.22 | 1.41 | 1.26 | 1.33 |
| 2,3,4,6,7,8-HxCDF     | 1.233 | 0.080 | 6.49 % | 1.19 | 1.15 | 1.35 | 1.21 | 1.27 |
| 1,2,3,7,8,9-HxCDF     | 1.098 | 0.096 | 8.73 % | 1.08 | 0.99 | 1.25 | 1.06 | 1.10 |
| Total HxCDF           | 1.208 | 0.066 | 5.43 % | 1.17 | 1.14 | 1.31 | 1.19 | 1.23 |
| 13C-1,2,3,6,7,8-HxCDD | 0.831 | 0.055 | 6.67 % | 0.84 | 0.83 | 0.92 | 0.79 | 0.77 |
| 1,2,3,4,7,8-HxCDD     | 1.037 | 0.122 | 11.8 % | 0.90 | 0.99 | 0.97 | 1.16 | 1.17 |

|                         |       |       |        |      |      |      |      |      |
|-------------------------|-------|-------|--------|------|------|------|------|------|
| 1,2,3,6,7,8-HxCDD       | 1.163 | 0.060 | 5.17 % | 1.14 | 1.23 | 1.10 | 1.23 | 1.12 |
| 1,2,3,7,8,9-HxCDD       | 1.182 | 0.057 | 4.85 % | 1.15 | 1.16 | 1.12 | 1.24 | 1.25 |
| Total HxCDD             | 1.127 | 0.067 | 5.91 % | 1.06 | 1.12 | 1.06 | 1.21 | 1.18 |
| 13C-1,2,3,4,6,7,8-HpCDF | 0.910 | 0.051 | 5.65 % | 0.99 | 0.91 | 0.92 | 0.86 | 0.87 |
| 1,2,3,4,6,7,8-HpCDF     | 1.346 | 0.027 | 1.99 % | 1.31 | 1.34 | 1.35 | 1.38 | 1.35 |
| 1,2,3,4,7,8,9-HpCDF     | 1.093 | 0.049 | 4.49 % | 1.01 | 1.09 | 1.11 | 1.13 | 1.13 |
| Total HpCDF             | 1.220 | 0.037 | 3.05 % | 1.16 | 1.21 | 1.23 | 1.26 | 1.24 |
| 13C-1,2,3,4,6,7,8-HpCDD | 0.827 | 0.049 | 5.98 % | 0.89 | 0.85 | 0.83 | 0.79 | 0.76 |
| 1,2,3,4,6,7,8-HpCDD     | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.10 | 1.09 |
| Total HpCDD             | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.10 | 1.09 |
| 13C-OCDD                | 0.620 | 0.029 | 4.60 % | 0.66 | 0.63 | 0.63 | 0.59 | 0.60 |
| OCDF                    | 1.370 | 0.027 | 1.98 % | 1.36 | 1.35 | 1.35 | 1.41 | 1.39 |
| OCDD                    | 1.199 | 0.066 | 5.48 % | 1.31 | 1.17 | 1.16 | 1.19 | 1.17 |

Run #1 Filename 21JL10A4D5 S: 4 I: 1  
 Acquired: 21-JUL-10 16:48:00 Processed: 22-JUL-10 09:56:27  
 Run: 15SE098D2 Analyte: 8290 Cal: 82900721104D5

Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 311991000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 | n    |
| 2,3,7,8-TCDF            | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50   | n    |
| Total TCDF              | -         | - n    | -     | 1.0327 | 0.50   | n    |
| 13C-2,3,7,8-TCDD        | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 | n    |
| 2,3,7,8-TCDD            | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50   | n    |
| Total TCDD              | -         | - n    | -     | 0.9839 | 0.50   | n    |
| 37Cl-2,3,7,8-TCDD       | 1900202   | 1.00 y | 20:14 | 1.2181 | 0.50   | n    |
| 13C-1,2,3,7,8-PeCDF     | 267161000 | 1.54 y | 25:17 | 0.8563 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 6866350   | 1.58 y | 25:19 | 1.0280 | 2.50   | n    |
| 2,3,4,7,8-PeCDF         | 6654750   | 1.57 y | 26:51 | 0.9964 | 2.50   | n    |
| Total F2 PeCDF          | -         | - n    | -     | 1.0122 | 5.00   | n    |
| Total F1 PeCDF          | -         | - n    | -     | 1.0122 | 5.00   | n    |
| 13C-1,2,3,7,8-PeCDD     | 202489300 | 1.56 y | 27:41 | 0.6490 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 4490250   | 1.47 y | 27:43 | 0.8870 | 2.50   | n    |
| Total PeCDD             | -         | - n    | -     | 0.8870 | 2.50   | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 216693700 | 1.31 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 223118900 | 0.51 y | 32:16 | 1.0297 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 6768610   | 1.17 y | 32:17 | 1.2135 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDF       | 6624500   | 1.24 y | 32:24 | 1.1876 | 2.50   | n    |
| 2,3,4,6,7,8-HxCDF       | 6618550   | 1.19 y | 32:54 | 1.1866 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDF       | 6028420   | 1.13 y | 33:32 | 1.0808 | 2.50   | n    |
| Total HxCDF             | -         | - n    | -     | 1.1671 | 10.00  | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 182070300 | 1.32 y | 33:06 | 0.8402 | 100.00 | y✓   |
| 1,2,3,4,7,8-HxCDD       | 4087150   | 1.18 y | 33:03 | 0.8979 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDD       | 5184140   | 1.31 y | 33:07 | 1.1389 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDD       | 5222820   | 1.27 y | 33:22 | 1.1474 | 2.50   | n    |
| Total HxCDD             | -         | - n    | -     | 1.0614 | 7.50   | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214578400 | 0.43 y | 34:53 | 0.9902 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 7009400   | 1.06 y | 34:54 | 1.3066 | 2.50   | n    |
| 1,2,3,4,7,8,9-HpCDF     | 5421290   | 1.00 y | 36:03 | 1.0106 | 2.50   | n    |
| Total HpCDF             | -         | - n    | -     | 1.1586 | 5.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 193217400 | 1.03 y | 35:42 | 0.8917 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 5159640   | 1.03 y | 35:43 | 1.0682 | 2.50   | n    |
| Total HpCDD             | -         | - n    | -     | 1.0682 | 2.50   | n    |
| 13C-OCDD                | 284075000 | 0.88 y | 38:16 | 0.6555 | 200.00 | n    |
| OCDF                    | 9640820   | 0.93 y | 38:23 | 1.3575 | 5.00   | n    |

OCDD 9336890 0.91 y 38:16 1.3147 5.00 n



Run #1 Filename 21JL10A4D5 S: 4 I: 1  
 Acquired: 21-JUL-10 16:48:00 Processed: 22-JUL-10 09:56:27  
 Run: 15SE098D2 Analyte: 8290 Cal: 82900721104D5

## Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name                    | Resp      | RA     | RT    | RRF    | Resp   | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 311991000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 | n    |
| 2,3,7,8-TCDF            | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50   | n    |
| Total TCDF              | -         | - n    | -     | 1.0327 | 0.50   | n    |
| 13C-2,3,7,8-TCDD        | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 | n    |
| 2,3,7,8-TCDD            | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50   | n    |
| Total TCDD              | -         | - n    | -     | 0.9839 | 0.50   | n    |
| 37Cl-2,3,7,8-TCDD       | 1900202   | 1.00 y | 20:14 | 1.2181 | 0.50   | n    |
| 13C-1,2,3,7,8-PeCDF     | 267161000 | 1.54 y | 25:17 | 0.8563 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 6866350   | 1.58 y | 25:19 | 1.0280 | 2.50   | n    |
| 2,3,4,7,8-PeCDF         | 6654750   | 1.57 y | 26:51 | 0.9964 | 2.50   | n    |
| Total F2 PeCDF          | -         | - n    | -     | 1.0122 | 5.00   | n    |
| Total F1 PeCDF          | -         | - n    | -     | 1.0122 | 5.00   | n    |
| 13C-1,2,3,7,8-PeCDD     | 202489300 | 1.56 y | 27:41 | 0.6490 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 4490250   | 1.47 y | 27:43 | 0.8870 | 2.50   | n    |
| Total PeCDD             | -         | - n    | -     | 0.8870 | 2.50   | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 216693700 | 1.31 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 223118900 | 0.51 y | 32:16 | 1.0297 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 6768610   | 1.17 y | 32:17 | 1.2135 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDF       | 6624500   | 1.24 y | 32:24 | 1.1876 | 2.50   | n    |
| 2,3,4,6,7,8-HxCDF       | 6618550   | 1.19 y | 32:54 | 1.1866 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDF       | 6028420   | 1.13 y | 33:32 | 1.0808 | 2.50   | n    |
| Total HxCDF             | -         | - n    | -     | 1.1671 | 10.00  | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 183007300 | 1.15 y | 33:06 | 0.8445 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 4087150   | 1.18 y | 33:03 | 0.8933 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDD       | 5184140   | 1.31 y | 33:07 | 1.1331 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDD       | 5222820   | 1.27 y | 33:22 | 1.1416 | 2.50   | n    |
| Total HxCDD             | -         | - n    | -     | 1.0560 | 7.50   | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214578400 | 0.43 y | 34:53 | 0.9902 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 7009400   | 1.06 y | 34:54 | 1.3066 | 2.50   | n    |
| 1,2,3,4,7,8,9-HpCDF     | 5421290   | 1.00 y | 36:03 | 1.0106 | 2.50   | n    |
| Total HpCDF             | -         | - n    | -     | 1.1586 | 5.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 193217400 | 1.03 y | 35:42 | 0.8917 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 5159640   | 1.03 y | 35:43 | 1.0682 | 2.50   | n    |
| Total HpCDD             | -         | - n    | -     | 1.0682 | 2.50   | n    |
| 13C-OCDD                | 284075000 | 0.88 y | 38:16 | 0.6555 | 200.00 | n    |
| OCDF                    | 9640820   | 0.93 y | 38:23 | 1.3575 | 5.00   | n    |

OCDD 9336890 0.91 y 38:16 1.3147 5.00 n

Run #2    Filename 21JL10A4D5    S: 5    I: 1  
 Acquired: 21-JUL-10    17:33:53    Processed: 22-JUL-10    09:56:28  
 Run: 15SE098D2    Analyte: 8290    Cal: 82900721104D5

Comments:

Sample text: ST0721B :CS-2 10DXN334

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 346133000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 454963000 | 0.79 y | 19:25 | 1.3144 | 100.00 | n    |
| 2,3,7,8-TCDF            | 8692490   | 0.78 y | 19:26 | 0.9553 | 2.00   | n    |
| Total TCDF              | -         | - n    | -     | 0.9553 | 2.00   | n    |
| 13C-2,3,7,8-TCDD        | 317456000 | 0.78 y | 20:14 | 0.9172 | 100.00 | n    |
| 2,3,7,8-TCDD            | 5958260   | 0.78 y | 20:15 | 0.9384 | 2.00   | n    |
| Total TCDD              | -         | - n    | -     | 0.9384 | 2.00   | n    |
| 37Cl-2,3,7,8-TCDD       | 8349040   | 1.00 y | 20:15 | 1.2060 | 2.00   | n    |
| 13C-1,2,3,7,8-PeCDF     | 311858000 | 1.53 y | 25:17 | 0.9010 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 32375300  | 1.57 y | 25:19 | 1.0381 | 10.00  | n    |
| 2,3,4,7,8-PeCDF         | 31788800  | 1.54 y | 26:52 | 1.0193 | 10.00  | n    |
| Total F2 PeCDF          | -         | - n    | -     | 1.0287 | 20.00  | n    |
| Total F1 PeCDF          | -         | - n    | -     | 1.0287 | 20.00  | n    |
| 13C-1,2,3,7,8-PeCDD     | 228833100 | 1.55 y | 27:41 | 0.6611 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 20211030  | 1.54 y | 27:42 | 0.8832 | 10.00  | n    |
| Total PeCDD             | -         | - n    | -     | 0.8832 | 10.00  | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 250231000 | 1.31 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 286839800 | 0.51 y | 32:16 | 1.1463 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 34391700  | 1.17 y | 32:17 | 1.1990 | 10.00  | n    |
| 1,2,3,6,7,8-HxCDF       | 34994300  | 1.19 y | 32:24 | 1.2200 | 10.00  | n    |
| 2,3,4,6,7,8-HxCDF       | 32979800  | 1.17 y | 32:55 | 1.1498 | 10.00  | n    |
| 1,2,3,7,8,9-HxCDF       | 28460200  | 1.20 y | 33:33 | 0.9922 | 10.00  | n    |
| Total HxCDF             | -         | - n    | -     | 1.1402 | 40.00  | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 207728500 | 1.31 y | 33:06 | 0.8301 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 20528920  | 1.23 y | 33:03 | 0.9883 | 10.00  | n    |
| 1,2,3,6,7,8-HxCDD       | 25476800  | 1.29 y | 33:07 | 1.2264 | 10.00  | n    |
| 1,2,3,7,8,9-HxCDD       | 24026200  | 1.28 y | 33:23 | 1.1566 | 10.00  | n    |
| Total HxCDD             | -         | - n    | -     | 1.1238 | 30.00  | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 227576800 | 0.43 y | 34:53 | 0.9095 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 30499500  | 1.03 y | 34:54 | 1.3402 | 10.00  | n    |
| 1,2,3,4,7,8,9-HpCDF     | 24758800  | 1.01 y | 36:03 | 1.0879 | 10.00  | n    |
| Total HpCDF             | -         | - n    | -     | 1.2141 | 20.00  | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 212760000 | 1.04 y | 35:42 | 0.8503 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 21862400  | 1.02 y | 35:43 | 1.0276 | 10.00  | n    |
| Total HpCDD             | -         | - n    | -     | 1.0276 | 10.00  | n    |
| 13C-OCDD                | 316775000 | 0.88 y | 38:16 | 0.6330 | 200.00 | n    |
| OCDF                    | 42624800  | 0.89 y | 38:23 | 1.3456 | 20.00  | n    |
| OCDD                    | 37017600  | 0.89 y | 38:17 | 1.1686 | 20.00  | n    |

Run #3 Filename 21JL10A4D5 S: 6 I: 1  
 Acquired: 21-JUL-10 18:18:56 Processed: 22-JUL-10 09:56:28  
 Run: 15SE098D2 Analyte: 8290 Cal: 82900721104D5

## Comments:

Sample text: ST0721C :CS-3 10DXN336

| Name                    | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 297616000 | 0.80 y | 20:00 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 414416000 | 0.80 y | 19:23 | 1.3925 | 100.00 n |
| 2,3,7,8-TCDF            | 40815800  | 0.78 y | 19:25 | 0.9849 | 10.00 n  |
| Total TCDF              | -         | - n    | -     | 0.9849 | 10.00 n  |
| 13C-2,3,7,8-TCDD        | 279542000 | 0.79 y | 20:13 | 0.9393 | 100.00 n |
| 2,3,7,8-TCDD            | 27062400  | 0.80 y | 20:15 | 0.9681 | 10.00 n  |
| Total TCDD              | -         | - n    | -     | 0.9681 | 10.00 n  |
| 37Cl-2,3,7,8-TCDD       | 36762200  | 1.00 y | 20:14 | 1.2352 | 10.00 n  |
| 13C-1,2,3,7,8-PeCDF     | 256521000 | 1.55 y | 25:18 | 0.8619 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 138997400 | 1.55 y | 25:20 | 1.0837 | 50.00 n  |
| 2,3,4,7,8-PeCDF         | 138743000 | 1.55 y | 26:53 | 1.0817 | 50.00 n  |
| Total F2 PeCDF          | -         | - n    | -     | 1.0827 | 100.00 n |
| Total F1 PeCDF          | -         | - n    | -     | 1.0827 | 100.00 n |
| 13C-1,2,3,7,8-PeCDD     | 199400100 | 1.58 y | 27:43 | 0.6700 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 93821800  | 1.53 y | 27:44 | 0.9410 | 50.00 n  |
| Total PeCDD             | -         | - n    | -     | 0.9410 | 50.00 n  |
| 13C-1,2,3,7,8,9-HxCDD   | 211830200 | 1.30 y | 33:22 | -      | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 206662600 | 0.51 y | 32:17 | 0.9756 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 125916200 | 1.16 y | 32:18 | 1.2186 | 50.00 n  |
| 1,2,3,6,7,8-HxCDF       | 145591100 | 1.17 y | 32:23 | 1.4090 | 50.00 n  |
| 2,3,4,6,7,8-HxCDF       | 139989400 | 1.18 y | 32:55 | 1.3548 | 50.00 n  |
| 1,2,3,7,8,9-HxCDF       | 129462400 | 1.18 y | 33:33 | 1.2529 | 50.00 n  |
| Total HxCDF             | -         | - n    | -     | 1.3088 | 200.00 n |
| 13C-1,2,3,6,7,8-HxCDD   | 194269900 | 1.31 y | 33:07 | 0.9171 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 94117900  | 1.23 y | 33:03 | 0.9689 | 50.00 n  |
| 1,2,3,6,7,8-HxCDD       | 106981800 | 1.27 y | 33:08 | 1.1014 | 50.00 n  |
| 1,2,3,7,8,9-HxCDD       | 108772200 | 1.25 y | 33:23 | 1.1198 | 50.00 n  |
| Total HxCDD             | -         | - n    | -     | 1.0634 | 150.00 n |
| 13C-1,2,3,4,6,7,8-HpCDF | 194898500 | 0.43 y | 34:53 | 0.9201 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 131367000 | 1.01 y | 34:54 | 1.3481 | 50.00 n  |
| 1,2,3,4,7,8,9-HpCDF     | 108439900 | 1.02 y | 36:02 | 1.1128 | 50.00 n  |
| Total HpCDF             | -         | - n    | -     | 1.2304 | 100.00 n |
| 13C-1,2,3,4,6,7,8-HpCDD | 176478000 | 1.04 y | 35:43 | 0.8331 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDD     | 94723500  | 1.02 y | 35:43 | 1.0735 | 50.00 n  |
| Total HpCDD             | -         | - n    | -     | 1.0735 | 50.00 n  |
| 13C-OCDD                | 266609000 | 0.89 y | 38:16 | 0.6293 | 200.00 n |
| OCDF                    | 179957800 | 0.91 y | 38:23 | 1.3500 | 100.00 n |
| OCDD                    | 154054800 | 0.90 y | 38:16 | 1.1557 | 100.00 n |

Run #4    Filename 21JL10A4D5    S: 8    I: 1  
 Acquired: 21-JUL-10    19:49:00    Processed: 22-JUL-10    09:56:29  
 Run: 15SE098D2    Analyte: 8290    Cal: 82900721104D5

Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 363554000 | 0.80 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 402416000 | 0.79 y | 19:24 | 1.1069 | 100.00 | n    |
| 2,3,7,8-TCDF            | 166293900 | 0.77 y | 19:25 | 1.0331 | 40.00  | n    |
| Total TCDF              | -         | - n    | -     | 1.0331 | 40.00  | n    |
| 13C-2,3,7,8-TCDD        | 314971000 | 0.80 y | 20:13 | 0.8664 | 100.00 | n    |
| 2,3,7,8-TCDD            | 127934900 | 0.78 y | 20:15 | 1.0154 | 40.00  | n    |
| Total TCDD              | -         | - n    | -     | 1.0154 | 40.00  | n    |
| 37Cl-2,3,7,8-TCDD       | 166729600 | 1.00 y | 20:15 | 1.1465 | 40.00  | n    |
| 13C-1,2,3,7,8-PeCDF     | 317818000 | 1.53 y | 25:17 | 0.8742 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 712080000 | 1.54 y | 25:19 | 1.1203 | 200.00 | n    |
| 2,3,4,7,8-PeCDF         | 692103000 | 1.53 y | 26:51 | 1.0888 | 200.00 | n    |
| Total F2 PeCDF          | -         | - n    | -     | 1.1045 | 400.00 | n    |
| Total F1 PeCDF          | -         | - n    | -     | 1.1045 | 400.00 | n    |
| 13C-1,2,3,7,8-PeCDD     | 237598000 | 1.55 y | 27:40 | 0.6535 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 458679000 | 1.50 y | 27:43 | 0.9652 | 200.00 | n    |
| Total PeCDD             | -         | - n    | -     | 0.9652 | 200.00 | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 248923000 | 1.30 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 267009400 | 0.51 y | 32:16 | 1.0727 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 658410000 | 1.16 y | 32:17 | 1.2329 | 200.00 | n    |
| 1,2,3,6,7,8-HxCDF       | 673142000 | 1.18 y | 32:24 | 1.2605 | 200.00 | n    |
| 2,3,4,6,7,8-HxCDF       | 645815000 | 1.17 y | 32:54 | 1.2093 | 200.00 | n    |
| 1,2,3,7,8,9-HxCDF       | 567208000 | 1.17 y | 33:33 | 1.0621 | 200.00 | n    |
| Total HxCDF             | -         | - n    | -     | 1.1912 | 800.00 | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 197349200 | 1.31 y | 33:06 | 0.7928 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 458143000 | 1.26 y | 33:03 | 1.1607 | 200.00 | y    |
| 1,2,3,6,7,8-HxCDD       | 484675000 | 1.28 y | 33:07 | 1.2280 | 200.00 | y    |
| 1,2,3,7,8,9-HxCDD       | 488147000 | 1.26 y | 33:23 | 1.2368 | 200.00 | n    |
| Total HxCDD             | -         | - n    | -     | 1.2085 | 600.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214761200 | 0.43 y | 34:53 | 0.8628 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 593215000 | 1.01 y | 34:54 | 1.3811 | 200.00 | n    |
| 1,2,3,4,7,8,9-HpCDF     | 485366000 | 1.01 y | 36:03 | 1.1300 | 200.00 | n    |
| Total HpCDF             | -         | - n    | -     | 1.2556 | 400.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 197451500 | 1.05 y | 35:42 | 0.7932 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 435214000 | 1.03 y | 35:43 | 1.1021 | 200.00 | n    |
| Total HpCDD             | -         | - n    | -     | 1.1021 | 200.00 | n    |
| 13C-OCDD                | 291770000 | 0.90 y | 38:16 | 0.5861 | 200.00 | n    |
| OCDF                    | 820312000 | 0.90 y | 38:23 | 1.4058 | 400.00 | n    |

OCDD 694943000 0.90 y 38:16 1.1909 400.00 n

Run #4    Filename 21JL10A4D5    S: 8    I: 1  
 Acquired: 21-JUL-10    19:49:00    Processed: 22-JUL-10    09:56:29  
 Run: 15SE098D2    Analyte: 8290    Cal: 82900721104D5  
 Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name                    | Resp      | RA       | RT    | RRF    |        | Mod? |
|-------------------------|-----------|----------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 363554000 | 0.80 y   | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 402416000 | 0.79 y   | 19:24 | 1.1069 | 100.00 | n    |
| 2,3,7,8-TCDF            | 166293900 | 0.77 y   | 19:25 | 1.0331 | 40.00  | n    |
| Total TCDF              | -         | - n      | -     | 1.0331 | 40.00  | n    |
| 13C-2,3,7,8-TCDD        | 314971000 | 0.80 y   | 20:13 | 0.8664 | 100.00 | n    |
| 2,3,7,8-TCDD            | 127934900 | 0.78 y   | 20:15 | 1.0154 | 40.00  | n    |
| Total TCDD              | -         | - n      | -     | 1.0154 | 40.00  | n    |
| 37Cl-2,3,7,8-TCDD       | 166729600 | 1.00 y   | 20:15 | 1.1465 | 40.00  | n    |
| 13C-1,2,3,7,8-PeCDF     | 317818000 | 1.53 y   | 25:17 | 0.8742 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 712080000 | 1.54 y   | 25:19 | 1.1203 | 200.00 | n    |
| 2,3,4,7,8-PeCDF         | 692103000 | 1.53 y   | 26:51 | 1.0888 | 200.00 | n    |
| Total F2 PeCDF          | -         | - n      | -     | 1.1045 | 400.00 | n    |
| Total F1 PeCDF          | -         | - n      | -     | 1.1045 | 400.00 | n    |
| 13C-1,2,3,7,8-PeCDD     | 237598000 | 1.55 y   | 27:40 | 0.6535 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 458679000 | 1.50 y   | 27:43 | 0.9652 | 200.00 | n    |
| Total PeCDD             | -         | - n      | -     | 0.9652 | 200.00 | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 248923000 | 1.30 y   | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 267009400 | 0.51 y   | 32:16 | 1.0727 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 658410000 | 1.16 y   | 32:17 | 1.2329 | 200.00 | n    |
| 1,2,3,6,7,8-HxCDF       | 673142000 | 1.18 y   | 32:24 | 1.2605 | 200.00 | n    |
| 2,3,4,6,7,8-HxCDF       | 645815000 | 1.17 y   | 32:54 | 1.2093 | 200.00 | n    |
| 1,2,3,7,8,9-HxCDF       | 567208000 | 1.17 y   | 33:33 | 1.0621 | 200.00 | n    |
| Total HxCDF             | -         | - n      | -     | 1.1912 | 800.00 | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 197349200 | 1.31 y   | 33:06 | 0.7928 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 422231040 | 1.45 (n) | 33:03 | 1.0698 | 200.00 | n    |
| 1,2,3,6,7,8-HxCDD       | 481044000 | 1.12 y   | 33:07 | 1.2188 | 200.00 | n    |
| 1,2,3,7,8,9-HxCDD       | 488146000 | 1.26 y   | 33:23 | 1.2368 | 200.00 | n    |
| Total HxCDD             | -         | - n      | -     | 1.1751 | 600.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214761200 | 0.43 y   | 34:53 | 0.8628 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 593215000 | 1.01 y   | 34:54 | 1.3811 | 200.00 | n    |
| 1,2,3,4,7,8,9-HpCDF     | 485366000 | 1.01 y   | 36:03 | 1.1300 | 200.00 | n    |
| Total HpCDF             | -         | - n      | -     | 1.2556 | 400.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 197451500 | 1.05 y   | 35:42 | 0.7932 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 435214000 | 1.03 y   | 35:43 | 1.1021 | 200.00 | n    |
| Total HpCDD             | -         | - n      | -     | 1.1021 | 200.00 | n    |
| 13C-OCDD                | 291770000 | 0.90 y   | 38:16 | 0.5861 | 200.00 | n    |
| OCDF                    | 820312000 | 0.90 y   | 38:23 | 1.4058 | 400.00 | n    |
| OCDD                    | 694943000 | 0.90 y   | 38:16 | 1.1909 | 400.00 | n    |

Run #5 Filename 21JL10A4D5 S: 7 I: 1  
Acquired: 21-JUL-10 19:03:58 Processed: 22-JUL-10 09:56:29  
Run: 15SE098D2 Analyte: 8290 Cal: 82900721104D5

Comments:

Sample text: ST0721D :CS-5 10DXN339

| Name                    | Resp       | RA     | RT    | RRF    |         | Mod? |
|-------------------------|------------|--------|-------|--------|---------|------|
| 13C-1,2,3,4-TCDD        | 350659000  | 0.80 y | 20:02 | -      | 100.00  | n    |
| 13C-2,3,7,8-TCDF        | 360772000  | 0.79 y | 19:24 | 1.0288 | 100.00  | n    |
| 2,3,7,8-TCDF            | 697458000  | 0.77 y | 19:25 | 0.9666 | 200.00  | n    |
| Total TCDF              | -          | - n    | -     | 0.9666 | 200.00  | n    |
| 13C-2,3,7,8-TCDD        | 309835000  | 0.78 y | 20:14 | 0.8836 | 100.00  | n    |
| 2,3,7,8-TCDD            | 626791000  | 0.79 y | 20:16 | 1.0115 | 200.00  | n    |
| Total TCDD              | -          | - n    | -     | 1.0115 | 200.00  | n    |
| 37C1-2,3,7,8-TCDD       | 837356000  | 1.00 y | 20:15 | 1.1940 | 200.00  | n    |
| 13C-1,2,3,7,8-PeCDF     | 310980000  | 1.54 y | 25:18 | 0.8868 | 100.00  | n    |
| 1,2,3,7,8-PeCDF         | 3461250000 | 1.54 y | 25:20 | 1.1130 | 1000.00 | n    |
| 2,3,4,7,8-PeCDF         | 3239400000 | 1.52 y | 26:52 | 1.0417 | 1000.00 | n    |
| Total F2 PeCDF          | -          | - n    | -     | 1.0773 | 2000.00 | n    |
| Total F1 PeCDF          | -          | - n    | -     | 1.0773 | 2000.00 | n    |
| 13C-1,2,3,7,8-PeCDD     | 235100700  | 1.56 y | 27:42 | 0.6705 | 100.00  | n    |
| 1,2,3,7,8-PeCDD         | 2235314000 | 1.50 y | 27:44 | 0.9508 | 1000.00 | n    |
| Total PeCDD             | -          | - n    | -     | 0.9508 | 1000.00 | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 256316000  | 1.29 y | 33:22 | -      | 100.00  | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 256243600  | 0.51 y | 32:16 | 0.9997 | 100.00  | n    |
| 1,2,3,4,7,8-HxCDF       | 3131920000 | 1.15 y | 32:17 | 1.2222 | 1000.00 | n    |
| 1,2,3,6,7,8-HxCDF       | 3410730000 | 1.19 y | 32:24 | 1.3311 | 1000.00 | n    |
| 2,3,4,6,7,8-HxCDF       | 3245730000 | 1.18 y | 32:55 | 1.2667 | 1000.00 | n    |
| 1,2,3,7,8,9-HxCDF       | 2825950000 | 1.18 y | 33:33 | 1.1028 | 1000.00 | n    |
| Total HxCDF             | -          | - n    | -     | 1.2307 | 4000.00 | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 198188400  | 1.30 y | 33:07 | 0.7732 | 100.00  | n    |
| 1,2,3,4,7,8-HxCDD       | 2319900000 | 1.23 y | 33:03 | 1.1706 | 1000.00 | n    |
| 1,2,3,6,7,8-HxCDD       | 2219442000 | 1.26 y | 33:07 | 1.1199 | 1000.00 | n    |
| 1,2,3,7,8,9-HxCDD       | 2474590000 | 1.26 y | 33:23 | 1.2486 | 1000.00 | n    |
| Total HxCDD             | -          | - n    | -     | 1.1797 | 3000.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 222373600  | 0.44 y | 34:54 | 0.8676 | 100.00  | n    |
| 1,2,3,4,6,7,8-HpCDF     | 3008480000 | 1.01 y | 34:54 | 1.3529 | 1000.00 | n    |
| 1,2,3,4,7,8,9-HpCDF     | 2503650000 | 1.02 y | 36:03 | 1.1259 | 1000.00 | n    |
| Total HpCDF             | -          | - n    | -     | 1.2394 | 2000.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 196025300  | 1.04 y | 35:42 | 0.7648 | 100.00  | n    |
| 1,2,3,4,6,7,8-HpCDD     | 2131190000 | 1.02 y | 35:43 | 1.0872 | 1000.00 | n    |
| Total HpCDD             | -          | - n    | -     | 1.0872 | 1000.00 | n    |
| 13C-OCDD                | 305368000  | 0.90 y | 38:16 | 0.5957 | 200.00  | n    |
| OCDF                    | 4252770000 | 0.90 y | 38:23 | 1.3927 | 2000.00 | n    |
| OCDD                    | 3562830000 | 0.90 y | 38:16 | 1.1667 | 2000.00 | n    |



Run: 21JUL10A4D51q Analyte: 1613 Cal: 16130721104D5

ST0721A : CS-1 10DXN342 ST0721B : CS-2 10DXN334 ST0721C : CS-3 10DXN336  
 ST0721D : CS-5 10DXN339 ST0721E : CS-4 10DXN337

21JUL10A4D521JUL10A4D521JUL10A4D521JUL10A4D521JUL10A4D521JUL10A4D5

| Name                  | Mean  | S. D. | %RSD   | RRF1 | RRF2 | RRF3 | RRF4 | RRF5 |
|-----------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,4-TCDD      | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-2,3,7,8-TCDF      | 1.229 | 0.154 | 12.5 % | 1.30 | 1.31 | 1.39 | 1.03 | 1.11 |
| 2,3,7,8-TCDF          | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 0.97 | 1.03 |
| Total TCDF            | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 0.97 | 1.03 |
| 13C-2,3,7,8-TCDD      | 0.905 | 0.029 | 3.25 % | 0.92 | 0.92 | 0.94 | 0.88 | 0.87 |
| 2,3,7,8-TCDD          | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.01 | 1.02 |
| Total TCDD            | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.01 | 1.02 |
| 37Cl-2,3,7,8-TCDD     | 1.200 | 0.034 | 2.80 % | 1.22 | 1.21 | 1.24 | 1.19 | 1.15 |
| 13C-1,2,3,7,8-PeCDF   | 0.876 | 0.018 | 2.08 % | 0.86 | 0.90 | 0.86 | 0.89 | 0.87 |
| 1,2,3,7,8-PeCDF       | 1.077 | 0.042 | 3.92 % | 1.03 | 1.04 | 1.08 | 1.11 | 1.12 |
| 13C-2,3,4,7,8-PeCDF   | 0.880 | 0.021 | 2.34 % | 0.88 | 0.90 | 0.88 | 0.85 | 0.89 |
| 2,3,4,7,8-PeCDF       | 1.041 | 0.046 | 4.41 % | 0.97 | 1.02 | 1.06 | 1.09 | 1.07 |
| Total P2 PeCDF        | 1.059 | 0.043 | 4.10 % | 1.00 | 1.03 | 1.07 | 1.10 | 1.09 |
| Total P1 PeCDF        | 1.059 | 0.043 | 4.10 % | 1.00 | 1.03 | 1.07 | 1.10 | 1.09 |
| 13C-1,2,3,7,8-PeCDD   | 0.661 | 0.010 | 1.45 % | 0.65 | 0.66 | 0.67 | 0.67 | 0.65 |
| 1,2,3,7,8-PeCDD       | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.95 | 0.97 |
| Total PeCDD           | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.95 | 0.97 |
| 13C-1,2,3,7,8,9-HxCDD | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-1,2,3,4,7,8-HxCDF | 1.045 | 0.067 | 6.44 % | 1.03 | 1.15 | 0.98 | 1.00 | 1.07 |
| 1,2,3,4,7,8-HxCDF     | 1.217 | 0.012 | 1.02 % | 1.21 | 1.20 | 1.22 | 1.22 | 1.23 |
| 13C-1,2,3,6,7,8-HxCDF | 1.192 | 0.056 | 4.68 % | 1.14 | 1.27 | 1.23 | 1.16 | 1.16 |
| 1,2,3,6,7,8-HxCDF     | 1.121 | 0.037 | 3.28 % | 1.07 | 1.10 | 1.12 | 1.14 | 1.17 |
| 13C-2,3,4,6,7,8-HxCDF | 1.123 | 0.037 | 3.27 % | 1.12 | 1.18 | 1.14 | 1.08 | 1.10 |
| 2,3,4,6,7,8-HxCDF     | 1.145 | 0.040 | 3.50 % | 1.09 | 1.12 | 1.16 | 1.17 | 1.18 |
| 13C-1,2,3,7,8,9-HxCDF | 1.020 | 0.045 | 4.38 % | 1.04 | 1.04 | 1.07 | 0.97 | 0.98 |
| 1,2,3,7,8,9-HxCDF     | 1.122 | 0.039 | 3.49 % | 1.07 | 1.10 | 1.14 | 1.14 | 1.17 |

|                         |       |       |        |      |      |      |      |      |
|-------------------------|-------|-------|--------|------|------|------|------|------|
| Total HxCDF             | 1.150 | 0.031 | 2.73 % | 1.11 | 1.13 | 1.16 | 1.17 | 1.19 |
| 13C-1,2,3,4,7,8-HxCDD   | 0.876 | 0.039 | 4.41 % | 0.84 | 0.92 | 0.86 | 0.85 | 0.92 |
| 1,2,3,4,7,8-HxCDD       | 0.980 | 0.079 | 8.03 % | 0.90 | 0.89 | 1.04 | 1.06 | 1.01 |
| 13C-1,2,3,6,7,8-HxCDD   | 0.831 | 0.055 | 6.67 % | 0.84 | 0.83 | 0.92 | 0.77 | 0.79 |
| 1,2,3,6,7,8-HxCDD       | 1.163 | 0.060 | 5.17 % | 1.14 | 1.23 | 1.10 | 1.12 | 1.23 |
| 1,2,3,7,8,9-HxCDD       | 1.148 | 0.033 | 2.85 % | 1.15 | 1.10 | 1.16 | 1.19 | 1.15 |
| Total HxCDD             | 1.095 | 0.029 | 2.63 % | 1.06 | 1.07 | 1.10 | 1.12 | 1.12 |
| 13C-1,2,3,4,6,7,8-HpCDF | 0.910 | 0.051 | 5.65 % | 0.99 | 0.91 | 0.92 | 0.87 | 0.86 |
| 1,2,3,4,6,7,8-HpCDF     | 1.346 | 0.027 | 1.99 % | 1.31 | 1.34 | 1.35 | 1.35 | 1.38 |
| 13C-1,2,3,4,7,8,9-HpCDF | 0.762 | 0.032 | 4.19 % | 0.80 | 0.77 | 0.78 | 0.73 | 0.73 |
| 1,2,3,4,7,8,9-HpCDF     | 1.305 | 0.040 | 3.04 % | 1.25 | 1.28 | 1.32 | 1.34 | 1.33 |
| Total HpCDF             | 1.327 | 0.031 | 2.37 % | 1.28 | 1.31 | 1.33 | 1.35 | 1.36 |
| 13C-1,2,3,4,6,7,8-HpCDD | 0.827 | 0.049 | 5.98 % | 0.89 | 0.85 | 0.83 | 0.76 | 0.79 |
| 1,2,3,4,6,7,8-HpCDD     | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.09 | 1.10 |
| Total HpCDD             | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.09 | 1.10 |
| 13C-OCDD                | 0.620 | 0.029 | 4.60 % | 0.66 | 0.63 | 0.63 | 0.60 | 0.59 |
| OCDF                    | 1.370 | 0.027 | 1.98 % | 1.36 | 1.35 | 1.35 | 1.39 | 1.41 |
| OCDD                    | 1.199 | 0.066 | 5.48 % | 1.31 | 1.17 | 1.16 | 1.17 | 1.19 |

Run #1    Filename 21JL10A4D5    S: 4    I: 1  
 Acquired: 21-JUL-10 16:48:00    Processed: 21-JUL-10 21:12:41  
 Run: 21JL10A4D5I1    Analyte: 1613    Cal: 16130721104D5

Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 311991000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 | n    |
| 2,3,7,8-TCDF            | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50   | n    |
| Total TCDF              | -         | - n    | -     | 1.0327 | 0.50   | n    |
| 13C-2,3,7,8-TCDD        | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 | n    |
| 2,3,7,8-TCDD            | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50   | n    |
| Total TCDD              | -         | - n    | -     | 0.9839 | 0.50   | n    |
| 37Cl-2,3,7,8-TCDD       | 1900202   | 1.00 y | 20:14 | 1.2181 | 0.50   | n    |
| 13C-1,2,3,7,8-PeCDF     | 267161000 | 1.54 y | 25:17 | 0.8563 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 6866350   | 1.58 y | 25:19 | 1.0280 | 2.50   | n    |
| 13C-2,3,4,7,8-PeCDF     | 273534000 | 1.55 y | 26:50 | 0.8767 | 100.00 | n    |
| 2,3,4,7,8-PeCDF         | 6654750   | 1.57 y | 26:51 | 0.9732 | 2.50   | n    |
| Total F2 PeCDF          | -         | - n    | -     | 1.0003 | 2.50   | n    |
| Total F1 PeCDF          | -         | - n    | -     | 1.0003 | 5.00   | n    |
| 13C-1,2,3,7,8-PeCDD     | 202489300 | 1.56 y | 27:41 | 0.6490 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 4490250   | 1.47 y | 27:43 | 0.8870 | 2.50   | n    |
| Total PeCDD             | -         | - n    | -     | 0.8870 | 2.50   | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 216693700 | 1.31 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 223118900 | 0.51 y | 32:16 | 1.0297 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 6768610   | 1.17 y | 32:17 | 1.2135 | 2.50   | n    |
| 13C-1,2,3,6,7,8-HxCDF   | 246653000 | 0.52 y | 32:23 | 1.1383 | 100.00 | n    |
| 1,2,3,6,7,8-HxCDF       | 6624500   | 1.24 y | 32:24 | 1.0743 | 2.50   | n    |
| 13C-2,3,4,6,7,8-HxCDF   | 243578100 | 0.51 y | 32:54 | 1.1241 | 100.00 | n    |
| 2,3,4,6,7,8-HxCDF       | 6618550   | 1.19 y | 32:54 | 1.0869 | 2.50   | n    |
| 13C-1,2,3,7,8,9-HxCDF   | 225613200 | 0.52 y | 33:31 | 1.0412 | 100.00 | n    |
| 1,2,3,7,8,9-HxCDF       | 6028420   | 1.13 y | 33:32 | 1.0688 | 2.50   | n    |
| Total HxCDF             | -         | - n    | -     | 1.1093 | 10.00  | n    |
| 13C-1,2,3,4,7,8-HxCDD   | 181392300 | 1.33 y | 33:02 | 0.8371 | 100.00 | y    |
| 1,2,3,4,7,8-HxCDD       | 4087150   | 1.18 y | 33:03 | 0.9013 | 2.50   | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 182070300 | 1.32 y | 33:06 | 0.8402 | 100.00 | y    |
| 1,2,3,6,7,8-HxCDD       | 5184140   | 1.31 y | 33:07 | 1.1389 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDD       | 5222820   | 1.27 y | 33:22 | 1.1496 | 2.50   | n    |
| Total HxCDD             | -         | - n    | -     | 1.0634 | 7.50   | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214578400 | 0.43 y | 34:53 | 0.9902 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 7009400   | 1.06 y | 34:54 | 1.3066 | 2.50   | n    |
| 13C-1,2,3,4,7,8,9-HpCDF | 173909100 | 0.44 y | 36:02 | 0.8026 | 100.00 | n    |
| 1,2,3,4,7,8,9-HpCDF     | 5421290   | 1.00 y | 36:03 | 1.2469 | 2.50   | n    |
| Total HpCDF             | -         | - n    | -     | 1.2799 | 5.00   | n    |

|                         |           |      |   |       |        |        |   |
|-------------------------|-----------|------|---|-------|--------|--------|---|
| 13C-1,2,3,4,6,7,8-HpCDD | 193217400 | 1.03 | y | 35:42 | 0.8917 | 100.00 | n |
| 1,2,3,4,6,7,8-HpCDD     | 5159640   | 1.03 | y | 35:43 | 1.0682 | 2.50   | n |
| Total HpCDD             | -         | -    | n | -     | 1.0682 | 2.50   | n |
| 13C-OCDD                | 284075000 | 0.88 | y | 38:16 | 0.6555 | 200.00 | n |
| OCDF                    | 9640820   | 0.93 | y | 38:23 | 1.3575 | 5.00   | n |
| OCDD                    | 9336890   | 0.91 | y | 38:16 | 1.3147 | 5.00   | n |

Run #1 Filename 21JL10A4D5 S: 4 I: 1  
 Acquired: 21-JUL-10 16:48:00 Processed: 21-JUL-10 21:12:41  
 Run: 21JL10A4D5I7 Analyte: 1613 Cal: 16130721104D5

Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name                    | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 311991000 | 0.79 y | 20:01 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 n |
| 2,3,7,8-TCDF            | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50 n   |
| Total TCDF              | -         | - n    | -     | 1.0327 | 0.50 n   |
| 13C-2,3,7,8-TCDD        | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 n |
| 2,3,7,8-TCDD            | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50 n   |
| Total TCDD              | -         | - n    | -     | 0.9839 | 0.50 n   |
| 37Cl-2,3,7,8-TCDD       | 1900202   | 1.00 y | 20:14 | 1.2181 | 0.50 n   |
| 13C-1,2,3,7,8-PeCDF     | 267161000 | 1.54 y | 25:17 | 0.8563 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 6866350   | 1.58 y | 25:19 | 1.0280 | 2.50 n   |
| 13C-2,3,4,7,8-PeCDF     | 273534000 | 1.55 y | 26:50 | 0.8767 | 100.00 n |
| 2,3,4,7,8-PeCDF         | 6654750   | 1.57 y | 26:51 | 0.9732 | 2.50 n   |
| Total F2 PeCDF          | -         | - n    | -     | 1.0003 | 2.50 n   |
| Total F1 PeCDF          | -         | - n    | -     | 1.0003 | 5.00 n   |
| 13C-1,2,3,7,8-PeCDD     | 202489300 | 1.56 y | 27:41 | 0.6490 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 4490250   | 1.47 y | 27:43 | 0.8870 | 2.50 n   |
| Total PeCDD             | -         | - n    | -     | 0.8870 | 2.50 n   |
| 13C-1,2,3,7,8,9-HxCDD   | 216693700 | 1.31 y | 33:22 | -      | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 223118900 | 0.51 y | 32:16 | 1.0297 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 6768610   | 1.17 y | 32:17 | 1.2135 | 2.50 n   |
| 13C-1,2,3,6,7,8-HxCDF   | 246653000 | 0.52 y | 32:23 | 1.1383 | 100.00 n |
| 1,2,3,6,7,8-HxCDF       | 6624500   | 1.24 y | 32:24 | 1.0743 | 2.50 n   |
| 13C-2,3,4,6,7,8-HxCDF   | 243578100 | 0.51 y | 32:54 | 1.1241 | 100.00 n |
| 2,3,4,6,7,8-HxCDF       | 6618550   | 1.19 y | 32:54 | 1.0869 | 2.50 n   |
| 13C-1,2,3,7,8,9-HxCDF   | 225613200 | 0.52 y | 33:31 | 1.0412 | 100.00 n |
| 1,2,3,7,8,9-HxCDF       | 6028420   | 1.13 y | 33:32 | 1.0688 | 2.50 n   |
| Total HxCDF             | -         | - n    | -     | 1.1093 | 10.00 n  |
| 13C-1,2,3,4,7,8-HxCDD   | 159458656 | 1.53 n | 33:02 | 0.7359 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 4087150   | 1.18 y | 33:03 | 1.0253 | 2.50 n   |
| 13C-1,2,3,6,7,8-HxCDD   | 183007300 | 1.15 y | 33:06 | 0.8445 | 100.00 n |
| 1,2,3,6,7,8-HxCDD       | 5184140   | 1.31 y | 33:07 | 1.1331 | 2.50 n   |
| 1,2,3,7,8,9-HxCDD       | 5222820   | 1.27 y | 33:22 | 1.2201 | 2.50 n   |
| Total HxCDD             | -         | - n    | -     | 1.1286 | 7.50 n   |
| 13C-1,2,3,4,6,7,8-HpCDF | 214578400 | 0.43 y | 34:53 | 0.9902 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 7009400   | 1.06 y | 34:54 | 1.3066 | 2.50 n   |
| 13C-1,2,3,4,7,8,9-HpCDF | 173909100 | 0.44 y | 36:02 | 0.8026 | 100.00 n |
| 1,2,3,4,7,8,9-HpCDF     | 5421290   | 1.00 y | 36:03 | 1.2469 | 2.50 n   |
| Total HpCDF             | -         | - n    | -     | 1.2799 | 5.00 n   |

|                         |           |      |   |       |        |        |   |
|-------------------------|-----------|------|---|-------|--------|--------|---|
| 13C-1,2,3,4,6,7,8-HpCDD | 193217400 | 1.03 | y | 35:42 | 0.8917 | 100.00 | n |
| 1,2,3,4,6,7,8-HpCDD     | 5159640   | 1.03 | y | 35:43 | 1.0682 | 2.50   | n |
| Total HpCDD             | -         | -    | n | -     | 1.0682 | 2.50   | n |
| 13C-OCDD                | 284075000 | 0.88 | y | 38:16 | 0.6555 | 200.00 | n |
| OCDF                    | 9640820   | 0.93 | y | 38:23 | 1.3575 | 5.00   | n |
| OCDD                    | 9336890   | 0.91 | y | 38:16 | 1.3147 | 5.00   | n |

Run #2 Filename 21JL10A4D5 S: 5 I: 1  
 Acquired: 21-JUL-10 17:33:53 Processed: 21-JUL-10 21:12:42  
 Run: 21JL10A4D5I7 Analyte: 1613 Cal: 16130721104D5  
 Comments:

Sample text: ST0721B :CS-2 10DXN334

| Name                    | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 346133000 | 0.79 y | 20:01 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 454963000 | 0.79 y | 19:25 | 1.3144 | 100.00 n |
| 2,3,7,8-TCDF            | 8692490   | 0.78 y | 19:26 | 0.9553 | 2.00 n   |
| Total TCDF              | -         | - n    | -     | 0.9553 | 2.00 n   |
| 13C-2,3,7,8-TCDD        | 317456000 | 0.78 y | 20:14 | 0.9172 | 100.00 n |
| 2,3,7,8-TCDD            | 5958260   | 0.78 y | 20:15 | 0.9384 | 2.00 n   |
| Total TCDD              | -         | - n    | -     | 0.9384 | 2.00 n   |
| 37Cl-2,3,7,8-TCDD       | 8349040   | 1.00 y | 20:15 | 1.2060 | 2.00 n   |
| 13C-1,2,3,7,8-PeCDF     | 311858000 | 1.53 y | 25:17 | 0.9010 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 32375300  | 1.57 y | 25:19 | 1.0381 | 10.00 n  |
| 13C-2,3,4,7,8-PeCDF     | 312874000 | 1.54 y | 26:50 | 0.9039 | 100.00 n |
| 2,3,4,7,8-PeCDF         | 31788800  | 1.54 y | 26:52 | 1.0160 | 10.00 n  |
| Total F2 PeCDF          | -         | - n    | -     | 1.0271 | 10.00 n  |
| Total F1 PeCDF          | -         | - n    | -     | 1.0271 | 20.00 n  |
| 13C-1,2,3,7,8-PeCDD     | 228833100 | 1.55 y | 27:41 | 0.6611 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 20211030  | 1.54 y | 27:42 | 0.8832 | 10.00 n  |
| Total PeCDD             | -         | - n    | -     | 0.8832 | 10.00 n  |
| 13C-1,2,3,7,8,9-HxCDD   | 250231000 | 1.31 y | 33:22 | -      | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 286839800 | 0.51 y | 32:16 | 1.1463 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 34391700  | 1.17 y | 32:17 | 1.1990 | 10.00 n  |
| 13C-1,2,3,6,7,8-HxCDF   | 318016000 | 0.52 y | 32:23 | 1.2709 | 100.00 n |
| 1,2,3,6,7,8-HxCDF       | 34994300  | 1.19 y | 32:24 | 1.1004 | 10.00 n  |
| 13C-2,3,4,6,7,8-HxCDF   | 294251000 | 0.52 y | 32:55 | 1.1759 | 100.00 n |
| 2,3,4,6,7,8-HxCDF       | 32979800  | 1.17 y | 32:55 | 1.1208 | 10.00 n  |
| 13C-1,2,3,7,8,9-HxCDF   | 259735000 | 0.52 y | 33:32 | 1.0380 | 100.00 n |
| 1,2,3,7,8,9-HxCDF       | 28460200  | 1.20 y | 33:33 | 1.0957 | 10.00 n  |
| Total HxCDF             | -         | - n    | -     | 1.1289 | 40.00 n  |
| 13C-1,2,3,4,7,8-HxCDD   | 230077000 | 1.29 y | 33:02 | 0.9195 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 20528920  | 1.23 y | 33:03 | 0.8923 | 10.00 n  |
| 13C-1,2,3,6,7,8-HxCDD   | 207728500 | 1.31 y | 33:06 | 0.8301 | 100.00 n |
| 1,2,3,6,7,8-HxCDD       | 25476800  | 1.29 y | 33:07 | 1.2264 | 10.00 n  |
| 1,2,3,7,8,9-HxCDD       | 24026200  | 1.28 y | 33:23 | 1.0976 | 10.00 n  |
| Total HxCDD             | -         | - n    | -     | 1.0664 | 30.00 n  |
| 13C-1,2,3,4,6,7,8-HpCDF | 227576800 | 0.43 y | 34:53 | 0.9095 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 30499500  | 1.03 y | 34:54 | 1.3402 | 10.00 n  |
| 13C-1,2,3,4,7,8,9-HpCDF | 193076000 | 0.43 y | 36:02 | 0.7716 | 100.00 n |
| 1,2,3,4,7,8,9-HpCDF     | 24758800  | 1.01 y | 36:03 | 1.2823 | 10.00 n  |
| Total HpCDF             | -         | - n    | -     | 1.3136 | 20.00 n  |
| 13C-1,2,3,4,6,7,8-HpCDD | 212760000 | 1.04 y | 35:42 | 0.8503 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDD     | 21862400  | 1.02 y | 35:43 | 1.0276 | 10.00 n  |

|             |           |      |   |       |        |        |   |
|-------------|-----------|------|---|-------|--------|--------|---|
| Total HpCDD | -         | -    | n | -     | 1.0276 | 10.00  | n |
| 13C-OCDD    | 316775000 | 0.88 | y | 38:16 | 0.6330 | 200.00 | n |
| OCDF        | 42624800  | 0.89 | y | 38:23 | 1.3456 | 20.00  | n |
| OCDD        | 37017600  | 0.89 | y | 38:17 | 1.1686 | 20.00  | n |



Run #3    Filename 21JL10A4D5    S: 6    I: 1  
 Acquired: 21-JUL-10    18:18:56    Processed: 21-JUL-10    21:12:43  
 Run: 21JL10A4D5I7    Analyte: 1613    Cal: 16130721104D5  
 Comments:

Sample text: ST0721C :CS-3 10DXN336

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 297616000 | 0.80 y | 20:00 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 414416000 | 0.80 y | 19:23 | 1.3925 | 100.00 | n    |
| 2,3,7,8-TCDF            | 40815800  | 0.78 y | 19:25 | 0.9849 | 10.00  | n    |
| Total TCDF              | -         | - n    | -     | 0.9849 | 10.00  | n    |
| 13C-2,3,7,8-TCDD        | 279542000 | 0.79 y | 20:13 | 0.9393 | 100.00 | n    |
| 2,3,7,8-TCDD            | 27062400  | 0.80 y | 20:15 | 0.9681 | 10.00  | n    |
| Total TCDD              | -         | - n    | -     | 0.9681 | 10.00  | n    |
| 37Cl-2,3,7,8-TCDD       | 36762200  | 1.00 y | 20:14 | 1.2352 | 10.00  | n    |
| 13C-1,2,3,7,8-PeCDF     | 256521000 | 1.55 y | 25:18 | 0.8619 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 138997400 | 1.55 y | 25:20 | 1.0837 | 50.00  | n    |
| 13C-2,3,4,7,8-PeCDF     | 262134000 | 1.54 y | 26:51 | 0.8808 | 100.00 | n    |
| 2,3,4,7,8-PeCDF         | 138743000 | 1.55 y | 26:53 | 1.0586 | 50.00  | n    |
| Total F2 PeCDF          | -         | - n    | -     | 1.0710 | 50.00  | n    |
| Total F1 PeCDF          | -         | - n    | -     | 1.0710 | 100.00 | n    |
| 13C-1,2,3,7,8-PeCDD     | 199400100 | 1.58 y | 27:43 | 0.6700 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 93821800  | 1.53 y | 27:44 | 0.9410 | 50.00  | n    |
| Total PeCDD             | -         | - n    | -     | 0.9410 | 50.00  | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 211830200 | 1.30 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 206662600 | 0.51 y | 32:17 | 0.9756 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 125916200 | 1.16 y | 32:18 | 1.2186 | 50.00  | n    |
| 13C-1,2,3,6,7,8-HxCDF   | 260157800 | 0.52 y | 32:23 | 1.2281 | 100.00 | n    |
| 1,2,3,6,7,8-HxCDF       | 145591100 | 1.17 y | 32:23 | 1.1193 | 50.00  | n    |
| 13C-2,3,4,6,7,8-HxCDF   | 240868600 | 0.51 y | 32:54 | 1.1371 | 100.00 | n    |
| 2,3,4,6,7,8-HxCDF       | 139989400 | 1.18 y | 32:55 | 1.1624 | 50.00  | n    |
| 13C-1,2,3,7,8,9-HxCDF   | 227199600 | 0.52 y | 33:32 | 1.0726 | 100.00 | n    |
| 1,2,3,7,8,9-HxCDF       | 129462400 | 1.18 y | 33:33 | 1.1396 | 50.00  | n    |
| Total HxCDF             | -         | - n    | -     | 1.1573 | 200.00 | n    |
| 13C-1,2,3,4,7,8-HxCDD   | 181260500 | 1.32 y | 33:03 | 0.8557 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 94117900  | 1.23 y | 33:03 | 1.0385 | 50.00  | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 194269900 | 1.31 y | 33:07 | 0.9171 | 100.00 | n    |
| 1,2,3,6,7,8-HxCDD       | 106981800 | 1.27 y | 33:08 | 1.1014 | 50.00  | n    |
| 1,2,3,7,8,9-HxCDD       | 108772200 | 1.25 y | 33:23 | 1.1586 | 50.00  | n    |
| Total HxCDD             | -         | - n    | -     | 1.1002 | 150.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 194898500 | 0.43 y | 34:53 | 0.9201 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 131367000 | 1.01 y | 34:54 | 1.3481 | 50.00  | n    |
| 13C-1,2,3,4,7,8,9-HpCDF | 164408600 | 0.43 y | 36:02 | 0.7761 | 100.00 | n    |
| 1,2,3,4,7,8,9-HpCDF     | 108439900 | 1.02 y | 36:02 | 1.3192 | 50.00  | n    |
| Total HpCDF             | -         | - n    | -     | 1.3348 | 100.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 176478000 | 1.04 y | 35:43 | 0.8331 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 94723500  | 1.02 y | 35:43 | 1.0735 | 50.00  | n    |

|             |           |      |   |       |        |        |   |
|-------------|-----------|------|---|-------|--------|--------|---|
| Total HpCDD | -         | -    | n | -     | 1.0735 | 50.00  | n |
| 13C-OCDD    | 266609000 | 0.89 | y | 38:16 | 0.6293 | 200.00 | n |
| OCDF        | 179957800 | 0.91 | y | 38:23 | 1.3500 | 100.00 | n |
| OCDD        | 154054800 | 0.90 | y | 38:16 | 1.1557 | 100.00 | n |

Run #5 Filename 21JL10A4D5 S: 8 I: 1  
 Acquired: 21-JUL-10 19:49:00 Processed: 21-JUL-10 21:12:44  
 Run: 21JL10A4D5I7 Analyte: 1613 Cal: 16130721104D5

Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name                    | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 363554000 | 0.80 y | 20:01 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 402416000 | 0.79 y | 19:24 | 1.1069 | 100.00 n |
| 2,3,7,8-TCDF            | 166293900 | 0.77 y | 19:25 | 1.0331 | 40.00 n  |
| Total TCDF              | -         | - n    | -     | 1.0331 | 40.00 n  |
| 13C-2,3,7,8-TCDD        | 314971000 | 0.80 y | 20:13 | 0.8664 | 100.00 n |
| 2,3,7,8-TCDD            | 127934900 | 0.78 y | 20:15 | 1.0154 | 40.00 n  |
| Total TCDD              | -         | - n    | -     | 1.0154 | 40.00 n  |
| 37Cl-2,3,7,8-TCDD       | 166729600 | 1.00 y | 20:15 | 1.1465 | 40.00 n  |
| 13C-1,2,3,7,8-PeCDF     | 317818000 | 1.53 y | 25:17 | 0.8742 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 712080000 | 1.54 y | 25:19 | 1.1203 | 200.00 n |
| 13C-2,3,4,7,8-PeCDF     | 324374000 | 1.54 y | 26:50 | 0.8922 | 100.00 n |
| 2,3,4,7,8-PeCDF         | 692103000 | 1.53 y | 26:51 | 1.0568 | 200.00 n |
| Total F2 PeCDF          | -         | - n    | -     | 1.0933 | 200.00 n |
| Total F1 PeCDF          | -         | - n    | -     | 1.0933 | 400.00 n |
| 13C-1,2,3,7,8-PeCDD     | 237598000 | 1.55 y | 27:40 | 0.6535 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 458679000 | 1.50 y | 27:43 | 0.9652 | 200.00 n |
| Total PeCDD             | -         | - n    | -     | 0.9652 | 200.00 n |
| 13C-1,2,3,7,8,9-HxCDD   | 248923000 | 1.30 y | 33:22 | -      | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 267009400 | 0.51 y | 32:16 | 1.0727 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 658410000 | 1.16 y | 32:17 | 1.2329 | 200.00 n |
| 13C-1,2,3,6,7,8-HxCDF   | 287856500 | 0.52 y | 32:23 | 1.1564 | 100.00 n |
| 1,2,3,6,7,8-HxCDF       | 673142000 | 1.18 y | 32:24 | 1.1692 | 200.00 n |
| 13C-2,3,4,6,7,8-HxCDF   | 272728500 | 0.52 y | 32:54 | 1.0956 | 100.00 n |
| 2,3,4,6,7,8-HxCDF       | 645815000 | 1.17 y | 32:54 | 1.1840 | 200.00 n |
| 13C-1,2,3,7,8,9-HxCDF   | 242901300 | 0.51 y | 33:32 | 0.9758 | 100.00 n |
| 1,2,3,7,8,9-HxCDF       | 567208000 | 1.17 y | 33:33 | 1.1676 | 200.00 n |
| Total HxCDF             | -         | - n    | -     | 1.1885 | 800.00 n |
| 13C-1,2,3,4,7,8-HxCDD   | 227922100 | 1.29 y | 33:02 | 0.9156 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 458232000 | 1.26 y | 33:03 | 1.0052 | 200.00 y |
| 13C-1,2,3,6,7,8-HxCDD   | 197349200 | 1.31 y | 33:06 | 0.7928 | 100.00 n |
| 1,2,3,6,7,8-HxCDD       | 484594000 | 1.28 y | 33:07 | 1.2278 | 200.00 y |
| 1,2,3,7,8,9-HxCDD       | 488147000 | 1.26 y | 33:23 | 1.1478 | 200.00 n |
| Total HxCDD             | -         | - n    | -     | 1.1216 | 600.00 n |
| 13C-1,2,3,4,6,7,8-HpCDF | 214761200 | 0.43 y | 34:53 | 0.8628 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 593215000 | 1.01 y | 34:54 | 1.3811 | 200.00 n |
| 13C-1,2,3,4,7,8,9-HpCDF | 181968100 | 0.44 y | 36:02 | 0.7310 | 100.00 n |
| 1,2,3,4,7,8,9-HpCDF     | 485366000 | 1.01 y | 36:03 | 1.3337 | 200.00 n |
| Total HpCDF             | -         | - n    | -     | 1.3593 | 400.00 n |

|                         |           |      |   |       |        |        |   |
|-------------------------|-----------|------|---|-------|--------|--------|---|
| 13C-1,2,3,4,6,7,8-HpCDD | 197451500 | 1.05 | y | 35:42 | 0.7932 | 100.00 | n |
| 1,2,3,4,6,7,8-HpCDD     | 435214000 | 1.03 | y | 35:43 | 1.1021 | 200.00 | n |
| Total HpCDD             | -         | -    | n | -     | 1.1021 | 200.00 | n |
| 13C-OCDD                | 291770000 | 0.90 | y | 38:16 | 0.5861 | 200.00 | n |
| OCDF                    | 820312000 | 0.90 | y | 38:23 | 1.4058 | 400.00 | n |
| OCDD                    | 694943000 | 0.90 | y | 38:16 | 1.1909 | 400.00 | n |

Run #5    Filename 21JL10A4D5    S: 8    I: 1  
 Acquired: 21-JUL-10    19:49:00    Processed: 21-JUL-10    21:12:44  
 Run: 21JL10A4D5I7    Analyte: 1613    Cal: 16130721104D5

Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name                    | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 363554000 | 0.80 y | 20:01 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 402416000 | 0.79 y | 19:24 | 1.1069 | 100.00 n |
| 2,3,7,8-TCDF            | 166293900 | 0.77 y | 19:25 | 1.0331 | 40.00 n  |
| Total TCDF              | -         | - n    | -     | 1.0331 | 40.00 n  |
| 13C-2,3,7,8-TCDD        | 314971000 | 0.80 y | 20:13 | 0.8664 | 100.00 n |
| 2,3,7,8-TCDD            | 127934900 | 0.78 y | 20:15 | 1.0154 | 40.00 n  |
| Total TCDD              | -         | - n    | -     | 1.0154 | 40.00 n  |
| 37Cl-2,3,7,8-TCDD       | 166729600 | 1.00 y | 20:15 | 1.1465 | 40.00 n  |
| 13C-1,2,3,7,8-PeCDF     | 317818000 | 1.53 y | 25:17 | 0.8742 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 712080000 | 1.54 y | 25:19 | 1.1203 | 200.00 n |
| 13C-2,3,4,7,8-PeCDF     | 324374000 | 1.54 y | 26:50 | 0.8922 | 100.00 n |
| 2,3,4,7,8-PeCDF         | 692103000 | 1.53 y | 26:51 | 1.0668 | 200.00 n |
| Total F2 PeCDF          | -         | - n    | -     | 1.0933 | 200.00 n |
| Total F1 PeCDF          | -         | - n    | -     | 1.0933 | 400.00 n |
| 13C-1,2,3,7,8-PeCDD     | 237598000 | 1.55 y | 27:40 | 0.6535 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 458679000 | 1.50 y | 27:43 | 0.9652 | 200.00 n |
| Total PeCDD             | -         | - n    | -     | 0.9652 | 200.00 n |
| 13C-1,2,3,7,8,9-HxCDD   | 248923000 | 1.30 y | 33:22 | -      | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 267009400 | 0.51 y | 32:16 | 1.0727 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 658410000 | 1.16 y | 32:17 | 1.2329 | 200.00 n |
| 13C-1,2,3,6,7,8-HxCDF   | 287856500 | 0.52 y | 32:23 | 1.1564 | 100.00 n |
| 1,2,3,6,7,8-HxCDF       | 673142000 | 1.18 y | 32:24 | 1.1692 | 200.00 n |
| 13C-2,3,4,6,7,8-HxCDF   | 272728500 | 0.52 y | 32:54 | 1.0956 | 100.00 n |
| 2,3,4,6,7,8-HxCDF       | 645815000 | 1.17 y | 32:54 | 1.1840 | 200.00 n |
| 13C-1,2,3,7,8,9-HxCDF   | 242901300 | 0.51 y | 33:32 | 0.9758 | 100.00 n |
| 1,2,3,7,8,9-HxCDF       | 567208000 | 1.17 y | 33:33 | 1.1676 | 200.00 n |
| Total HxCDF             | -         | - n    | -     | 1.1885 | 800.00 n |
| 13C-1,2,3,4,7,8-HxCDD   | 227922100 | 1.29 y | 33:02 | 0.9156 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 422231040 | 1.45 y | 33:03 | 0.9263 | 200.00 n |
| 13C-1,2,3,6,7,8-HxCDD   | 197349200 | 1.31 y | 33:06 | 0.7928 | 100.00 n |
| 1,2,3,6,7,8-HxCDD       | 481044000 | 1.12 y | 33:07 | 1.2188 | 200.00 n |
| 1,2,3,7,8,9-HxCDD       | 488146000 | 1.26 y | 33:23 | 1.1478 | 200.00 n |
| Total HxCDD             | -         | - n    | -     | 1.0906 | 600.00 n |
| 13C-1,2,3,4,6,7,8-HpCDF | 214761200 | 0.43 y | 34:53 | 0.8628 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 593215000 | 1.01 y | 34:54 | 1.3811 | 200.00 n |
| 13C-1,2,3,4,7,8,9-HpCDF | 181968100 | 0.44 y | 36:02 | 0.7310 | 100.00 n |
| 1,2,3,4,7,8,9-HpCDF     | 485366000 | 1.01 y | 36:03 | 1.3337 | 200.00 n |
| Total HpCDF             | -         | - n    | -     | 1.3593 | 400.00 n |
| 13C-1,2,3,4,6,7,8-HpCDD | 197451500 | 1.05 y | 35:42 | 0.7932 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDD     | 435214000 | 1.03 y | 35:43 | 1.1021 | 200.00 n |

|             |           |      |   |       |        |        |   |
|-------------|-----------|------|---|-------|--------|--------|---|
| Total HpCDD | -         | -    | n | -     | 1.1021 | 200.00 | n |
| 13C-OCDD    | 291770000 | 0.90 | y | 38:16 | 0.5861 | 200.00 | n |
| OCDF        | 820312000 | 0.90 | y | 38:23 | 1.4058 | 400.00 | n |
| OCDD        | 694943000 | 0.90 | y | 38:16 | 1.1909 | 400.00 | n |

Run #4    Filename 21JL10A4D5    S: 7    I: 1  
 Acquired: 21-JUL-10    19:03:58    Processed: 21-JUL-10    21:12:43  
 Run: 21JL10A4D5I7    Analyte: 1613    Cal: 16130721104D5

Comments:

Sample text: ST0721D :CS-5 10DXN339

| Name                    | Resp       | RA     | RT    | RRF    |         | Mod? |
|-------------------------|------------|--------|-------|--------|---------|------|
| 13C-1,2,3,4-TCDD        | 350659000  | 0.80 y | 20:02 | -      | 100.00  | n    |
| 13C-2,3,7,8-TCDF        | 360772000  | 0.79 y | 19:24 | 1.0288 | 100.00  | n    |
| 2,3,7,8-TCDF            | 697458000  | 0.77 y | 19:25 | 0.9666 | 200.00  | n    |
| Total TCDF              | -          | - n    | -     | 0.9666 | 200.00  | n    |
| 13C-2,3,7,8-TCDD        | 309835000  | 0.78 y | 20:14 | 0.8836 | 100.00  | n    |
| 2,3,7,8-TCDD            | 626791000  | 0.79 y | 20:16 | 1.0115 | 200.00  | n    |
| Total TCDD              | -          | - n    | -     | 1.0115 | 200.00  | n    |
| 37C1-2,3,7,8-TCDD       | 837356000  | 1.00 y | 20:15 | 1.1940 | 200.00  | n    |
| 13C-1,2,3,7,8-PeCDF     | 310980000  | 1.54 y | 25:18 | 0.8868 | 100.00  | n    |
| 1,2,3,7,8-PeCDF         | 3461250000 | 1.54 y | 25:20 | 1.1130 | 1000.00 | n    |
| 13C-2,3,4,7,8-PeCDF     | 297653000  | 1.53 y | 26:50 | 0.8488 | 100.00  | n    |
| 2,3,4,7,8-PeCDF         | 3239400000 | 1.52 y | 26:52 | 1.0883 | 1000.00 | n    |
| Total F2 PeCDF          | -          | - n    | -     | 1.1009 | 1000.00 | n    |
| Total F1 PeCDF          | -          | - n    | -     | 1.1009 | 2000.00 | n    |
| 13C-1,2,3,7,8-PeCDD     | 235100700  | 1.56 y | 27:42 | 0.6705 | 100.00  | n    |
| 1,2,3,7,8-PeCDD         | 2235314000 | 1.50 y | 27:44 | 0.9508 | 1000.00 | n    |
| Total PeCDD             | -          | - n    | -     | 0.9508 | 1000.00 | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 256316000  | 1.29 y | 33:22 | -      | 100.00  | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 256243600  | 0.51 y | 32:16 | 0.9997 | 100.00  | n    |
| 1,2,3,4,7,8-HxCDF       | 3131920000 | 1.15 y | 32:17 | 1.2222 | 1000.00 | n    |
| 13C-1,2,3,6,7,8-HxCDF   | 298409000  | 0.52 y | 32:23 | 1.1642 | 100.00  | n    |
| 1,2,3,6,7,8-HxCDF       | 3410730000 | 1.19 y | 32:24 | 1.1430 | 1000.00 | n    |
| 13C-2,3,4,6,7,8-HxCDF   | 277415700  | 0.51 y | 32:54 | 1.0823 | 100.00  | n    |
| 2,3,4,6,7,8-HxCDF       | 3245730000 | 1.18 y | 32:55 | 1.1700 | 1000.00 | n    |
| 13C-1,2,3,7,8,9-HxCDF   | 248643300  | 0.52 y | 33:32 | 0.9701 | 100.00  | n    |
| 1,2,3,7,8,9-HxCDF       | 2825950000 | 1.18 y | 33:33 | 1.1365 | 1000.00 | n    |
| Total HxCDF             | -          | - n    | -     | 1.1672 | 4000.00 | n    |
| 13C-1,2,3,4,7,8-HxCDD   | 218307200  | 1.31 y | 33:02 | 0.8517 | 100.00  | n    |
| 1,2,3,4,7,8-HxCDD       | 2319900000 | 1.23 y | 33:03 | 1.0627 | 1000.00 | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 198188400  | 1.30 y | 33:07 | 0.7732 | 100.00  | n    |
| 1,2,3,6,7,8-HxCDD       | 2219442000 | 1.26 y | 33:07 | 1.1199 | 1000.00 | n    |
| 1,2,3,7,8,9-HxCDD       | 2474590000 | 1.26 y | 33:23 | 1.1883 | 1000.00 | n    |
| Total HxCDD             | -          | - n    | -     | 1.1227 | 3000.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 222373600  | 0.44 y | 34:54 | 0.8676 | 100.00  | n    |
| 1,2,3,4,6,7,8-HpCDF     | 3008480000 | 1.01 y | 34:54 | 1.3529 | 1000.00 | n    |
| 13C-1,2,3,4,7,8,9-HpCDF | 186494800  | 0.44 y | 36:02 | 0.7276 | 100.00  | n    |
| 1,2,3,4,7,8,9-HpCDF     | 2503650000 | 1.02 y | 36:03 | 1.3425 | 1000.00 | n    |
| Total HpCDF             | -          | - n    | -     | 1.3481 | 2000.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 196025300  | 1.04 y | 35:42 | 0.7648 | 100.00  | n    |
| 1,2,3,4,6,7,8-HpCDD     | 2131190000 | 1.02 y | 35:43 | 1.0872 | 1000.00 | n    |

|             |            |      |   |       |        |         |   |
|-------------|------------|------|---|-------|--------|---------|---|
| Total HpCDD | -          | -    | n | -     | 1.0872 | 1000.00 | n |
| 13C-OCDD    | 305368000  | 0.90 | y | 38:16 | 0.5957 | 200.00  | n |
| OCDF        | 4252770000 | 0.90 | y | 38:23 | 1.3927 | 2000.00 | n |
| OCDD        | 3562830000 | 0.90 | y | 38:16 | 1.1667 | 2000.00 | n |



Run: 15SE098D2 Analyte: TETRAS Cal: TETRAS0721104D5

ST0721A : CS-1 10DXN342 ST0721B : CS-2 10DXN334 ST0721C : CS-3 10DXN336  
 ST0721D : CS-5 10DXN339 ST0721E : CS-4 10DXN337

| Name              | Mean  | S. D. | %RSD   | 21JUL10A4D521JUL10A4D521JUL10A4D521JUL10A4D521JUL10A4D5 |      |      |      |      |
|-------------------|-------|-------|--------|---|------|------|------|------|
|                   |       |       |        | 94  | 95   | 96   | 97   | 98   |
|                   |       |       |        | RRF1  | RRF2 | RRF3 | RRF4 | RRF5 |
| 13C-1,2,3,4-TCDD  | -     | -     | - %    | -   | -    | -    | -    | -    |
| 13C-2,3,7,8-TCDF  | 1.229 | 0.154 | 12.5 % | 1.30  | 1.31 | 1.39 | 1.03 | 1.11 |
| 2,3,7,8-TCDF      | 0.995 | 0.037 | 3.68 % | 1.03  | 0.96 | 0.98 | 0.97 | 1.03 |
| 13C-2,3,7,8-TCDD  | 0.905 | 0.029 | 3.25 % | 0.92  | 0.92 | 0.94 | 0.88 | 0.87 |
| 2,3,7,8-TCDD      | 0.983 | 0.032 | 3.24 % | 0.98  | 0.94 | 0.97 | 1.01 | 1.02 |
| 37Cl-2,3,7,8-TCDD | 1.200 | 0.034 | 2.80 % | 1.22  | 1.21 | 1.24 | 1.19 | 1.15 |

Run #1    Filename 21JL10A4D5    S: 4    I: 1  
Acquired: 21-JUL-10 16:48:00    Processed: 22-JUL-10 11:08:12  
Run: 15SE098D2    Analyte: TETRAS    Cal: TETRAS0721104D5

Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name              | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD  | 311991000 | 0.79 y | 20:01 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF  | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 n |
| 2,3,7,8-TCDF      | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50 n   |
| 13C-2,3,7,8-TCDD  | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 n |
| 2,3,7,8-TCDD      | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50 n   |
| 37Cl-2,3,7,8-TCDD | 1900202   | 1.00 y | 20:14 | 1.2181 | 0.50 n   |

Run #2    Filename 21JL10A4D5    S: 5    I: 1  
 Acquired: 21-JUL-10    17:33:53    Processed: 22-JUL-10    11:08:12  
 Run: 15SE098D2    Analyte: TETRAS    Cal: TETRAS0721104D5

Comments:

Sample text: ST0721B :CS-2 10DXN334

| Name              | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD  | 346133000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 454963000 | 0.79 y | 19:25 | 1.3144 | 100.00 | n    |
| 2,3,7,8-TCDF      | 8692490   | 0.78 y | 19:26 | 0.9553 | 2.00   | n    |
| 13C-2,3,7,8-TCDD  | 317456000 | 0.78 y | 20:14 | 0.9172 | 100.00 | n    |
| 2,3,7,8-TCDD      | 5958260   | 0.78 y | 20:15 | 0.9384 | 2.00   | n    |
| 37Cl-2,3,7,8-TCDD | 8349040   | 1.00 y | 20:15 | 1.2060 | 2.00   | n    |

Run #3    Filename 21JL10A4D5    S: 6    I: 1  
Acquired: 21-JUL-10 18:18:56    Processed: 22-JUL-10 11:08:12  
Run: 15SE098D2    Analyte: TETRAS    Cal: TETRAS0721104D5

Comments:

Sample text: ST0721C :CS-3 10DXN336

| Name              | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD  | 297616000 | 0.80 y | 20:00 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 414416000 | 0.80 y | 19:23 | 1.3925 | 100.00 | n    |
| 2,3,7,8-TCDF      | 40815800  | 0.78 y | 19:25 | 0.9849 | 10.00  | n    |
| 13C-2,3,7,8-TCDD  | 279542000 | 0.79 y | 20:13 | 0.9393 | 100.00 | n    |
| 2,3,7,8-TCDD      | 27062400  | 0.80 y | 20:15 | 0.9681 | 10.00  | n    |
| 37Cl-2,3,7,8-TCDD | 36762200  | 1.00 y | 20:14 | 1.2352 | 10.00  | n    |

Run #4    Filename 21JL10A4D5    S: 7    I: 1  
Acquired: 21-JUL-10    19:03:58    Processed: 22-JUL-10    11:08:12  
Run: 15SE098D2    Analyte: TETRAS    Cal: TETRAS0721104D5

Comments:

Sample text: ST0721D :CS-5 10DXN339

| Name              | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD  | 350659000 | 0.80 y | 20:02 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 360772000 | 0.79 y | 19:24 | 1.0288 | 100.00 | n    |
| 2,3,7,8-TCDF      | 697458000 | 0.77 y | 19:25 | 0.9666 | 200.00 | n    |
| 13C-2,3,7,8-TCDD  | 309835000 | 0.78 y | 20:14 | 0.8836 | 100.00 | n    |
| 2,3,7,8-TCDD      | 626791000 | 0.79 y | 20:16 | 1.0115 | 200.00 | n    |
| 37Cl-2,3,7,8-TCDD | 837356000 | 1.00 y | 20:15 | 1.1940 | 200.00 | n    |

Run #5    Filename 21JL10A4D5    S: 8    I: 1  
Acquired: 21-JUL-10    19:49:00    Processed: 22-JUL-10    11:08:12  
Run: 15SE098D2    Analyte: TETRAS    Cal: TETRAS0721104D5  
Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name              | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD  | 363554000 | 0.80 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 402416000 | 0.79 y | 19:24 | 1.1069 | 100.00 | n    |
| 2,3,7,8-TCDF      | 166293900 | 0.77 y | 19:25 | 1.0331 | 40.00  | n    |
| 13C-2,3,7,8-TCDD  | 314971000 | 0.80 y | 20:13 | 0.8664 | 100.00 | n    |
| 2,3,7,8-TCDD      | 127934900 | 0.78 y | 20:15 | 1.0154 | 40.00  | n    |
| 37C1-2,3,7,8-TCDD | 166729600 | 1.00 y | 20:15 | 1.1465 | 40.00  | n    |

Run: 158E098D2 Analyte: 0023A Call: 0023A0721104D5

ST0721A :CS-1 10DXN342 ST0721B :CS-2 10DXN334 ST0721C :CS-3 10DXN336  
 ST0721D :CS-5 10DXN339 ST0721E :CS-4 10DXN337

21JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D5

| Name                  | Mean  | S. D. | %RSD   | S4   | S5   | S6   | S7   | S8   |
|-----------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,4-TCDD      | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-2,3,7,8-TCDF      | 1.229 | 0.154 | 12.5 % | 1.30 | 1.31 | 1.39 | 1.03 | 1.11 |
| 2,3,7,8-TCDF          | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 0.97 | 1.03 |
| Total Tetra-Furans    | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 0.97 | 1.03 |
| 13C-2,3,7,8-TCDD      | 0.905 | 0.029 | 3.25 % | 0.92 | 0.92 | 0.94 | 0.88 | 0.87 |
| 2,3,7,8-TCDD          | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.01 | 1.02 |
| Total Tetra-Dioxins   | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.01 | 1.02 |
| 13C-1,2,3,7,8-DeCDF   | 0.876 | 0.018 | 2.08 % | 0.86 | 0.90 | 0.86 | 0.89 | 0.87 |
| 1,2,3,7,8-DeCDF       | 1.077 | 0.042 | 3.92 % | 1.03 | 1.04 | 1.08 | 1.11 | 1.12 |
| 2,3,4,7,8-DeCDF       | 1.046 | 0.040 | 3.80 % | 1.00 | 1.02 | 1.08 | 1.04 | 1.09 |
| Total F2 Penta-Furans | 1.061 | 0.039 | 3.67 % | 1.01 | 1.03 | 1.08 | 1.08 | 1.10 |
| Total F1 Penta-Furans | 1.061 | 0.039 | 3.67 % | 1.01 | 1.03 | 1.08 | 1.08 | 1.10 |
| 13C-1,2,3,7,8-DeCDD   | 0.661 | 0.010 | 1.45 % | 0.65 | 0.66 | 0.67 | 0.67 | 0.65 |
| 1,2,3,7,8-DeCDD       | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.95 | 0.97 |
| Total Penta-Dioxins   | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.95 | 0.97 |
| 13C-1,2,3,7,8,9-HxCDD | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-1,2,3,6,7,8-HxCDF | 1.192 | 0.056 | 4.68 % | 1.14 | 1.27 | 1.23 | 1.16 | 1.16 |
| 1,2,3,4,7,8-HxCDF     | 1.068 | 0.065 | 6.13 % | 1.10 | 1.08 | 0.97 | 1.05 | 1.14 |
| 1,2,3,6,7,8-HxCDF     | 1.121 | 0.037 | 3.28 % | 1.07 | 1.10 | 1.12 | 1.14 | 1.17 |
| 2,3,4,6,7,8-HxCDF     | 1.079 | 0.030 | 2.82 % | 1.07 | 1.04 | 1.08 | 1.09 | 1.12 |
| 1,2,3,7,8,9-HxCDF     | 0.960 | 0.041 | 4.23 % | 0.98 | 0.89 | 1.00 | 0.95 | 0.99 |
| Total Hexa-Furans     | 1.057 | 0.029 | 2.77 % | 1.06 | 1.03 | 1.04 | 1.06 | 1.10 |
| 13C-1,2,3,6,7,8-HxCDD | 0.831 | 0.055 | 6.68 % | 0.84 | 0.83 | 0.92 | 0.77 | 0.79 |
| 1,2,3,4,7,8-HxCDD     | 1.037 | 0.122 | 11.8 % | 0.90 | 0.99 | 0.97 | 1.17 | 1.16 |
| 1,2,3,6,7,8-HxCDD     | 1.163 | 0.060 | 5.18 % | 1.14 | 1.23 | 1.10 | 1.12 | 1.23 |
| 1,2,3,7,8,9-HxCDD     | 1.182 | 0.057 | 4.86 % | 1.15 | 1.16 | 1.12 | 1.25 | 1.24 |
| Total Hexa-Dioxins    | 1.127 | 0.067 | 5.93 % | 1.06 | 1.12 | 1.06 | 1.18 | 1.21 |

|                         |       |       |        |      |      |      |      |      |
|-------------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,4,6,7,8-HpCDF | 0.910 | 0.051 | 5.65 % | 0.99 | 0.91 | 0.92 | 0.87 | 0.86 |
| 1,2,3,4,6,7,8-HpCDF     | 1.346 | 0.027 | 1.99 % | 1.31 | 1.34 | 1.35 | 1.35 | 1.38 |
| 1,2,3,4,7,8,9-HpCDF     | 1.093 | 0.049 | 4.49 % | 1.01 | 1.09 | 1.11 | 1.13 | 1.13 |
| Total Hepta-Furans      | 1.220 | 0.037 | 3.05 % | 1.16 | 1.21 | 1.23 | 1.24 | 1.26 |
| 13C-1,2,3,4,6,7,8-HpCDD | 0.827 | 0.049 | 5.98 % | 0.89 | 0.85 | 0.83 | 0.76 | 0.79 |
| 1,2,3,4,6,7,8-HpCDD     | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.09 | 1.10 |
| Total Hepta-Dioxins     | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.09 | 1.10 |
| 13C-OCDD                | 0.620 | 0.029 | 4.60 % | 0.66 | 0.63 | 0.63 | 0.60 | 0.59 |
| OCDF                    | 1.370 | 0.027 | 1.98 % | 1.36 | 1.35 | 1.35 | 1.39 | 1.41 |
| OCDD                    | 1.199 | 0.066 | 5.48 % | 1.31 | 1.17 | 1.16 | 1.17 | 1.19 |
| 37Cl-2,3,7,8-TCDD       | 1.326 | 0.015 | 1.12 % | 1.33 | 1.31 | 1.32 | 1.35 | 1.32 |
| 13C-2,3,4,7,8-PeCDF     | 1.005 | 0.028 | 2.80 % | 1.02 | 1.00 | 1.02 | 0.96 | 1.02 |
| 13C-1,2,3,4,7,8-HxCDF   | 0.877 | 0.053 | 6.00 % | 0.90 | 0.90 | 0.79 | 0.86 | 0.93 |
| 13C-1,2,3,4,7,8-HxCDD   | 1.058 | 0.091 | 8.62 % | 1.00 | 1.11 | 0.93 | 1.10 | 1.15 |
| 13C-1,2,3,4,7,8,9-HpCDF | 0.838 | 0.016 | 1.87 % | 0.81 | 0.85 | 0.84 | 0.84 | 0.85 |



Run #1    Filename 21JL10A4D5    S: 4    I: 1  
 Acquired: 21-JUL-10    16:48:00    Processed: 22-JUL-10    11:22:52  
 Run: 15SE098D2    Analyte: 0023A    Cal: 0023A0721104D5

Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 311991000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 | n    |
| 2,3,7,8-TCDF            | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50   | n    |
| Total Tetra-Furans      | -         | - n    | -     | 1.0327 | 0.00   | n    |
| 13C-2,3,7,8-TCDD        | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 | n    |
| 2,3,7,8-TCDD            | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50   | n    |
| Total Tetra-Dioxins     | -         | - n    | -     | 0.9839 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDF     | 267161000 | 1.54 y | 25:17 | 0.8563 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 6866350   | 1.58 y | 25:19 | 1.0280 | 2.50   | n    |
| 2,3,4,7,8-PeCDF         | 6654750   | 1.57 y | 26:51 | 0.9964 | 2.50   | n    |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.0122 | 0.00   | n    |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.0122 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDD     | 202489300 | 1.56 y | 27:41 | 0.6490 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 4490250   | 1.47 y | 27:43 | 0.8870 | 2.50   | n    |
| Total Penta-Dioxins     | -         | - n    | -     | 0.8870 | 0.00   | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 216693700 | 1.31 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,6,7,8-HxCDF   | 246653000 | 0.52 y | 32:23 | 1.1383 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 6768610   | 1.17 y | 32:17 | 1.0977 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDF       | 6624500   | 1.24 y | 32:24 | 1.0743 | 2.50   | n    |
| 2,3,4,6,7,8-HxCDF       | 6618550   | 1.19 y | 32:54 | 1.0733 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDF       | 6028420   | 1.13 y | 33:32 | 0.9776 | 2.50   | n    |
| Total Hexa-Furans       | -         | - n    | -     | 1.0557 | 0.00   | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 182168900 | 1.32 y | 33:06 | 0.8407 | 100.00 | y ✓  |
| 1,2,3,4,7,8-HxCDD       | 4087150   | 1.18 y | 33:03 | 0.8974 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDD       | 5184140   | 1.31 y | 33:07 | 1.1383 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDD       | 5222820   | 1.27 y | 33:22 | 1.1468 | 2.50   | n    |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.0609 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214578400 | 0.43 y | 34:53 | 0.9902 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 7009400   | 1.06 y | 34:54 | 1.3066 | 2.50   | n    |
| 1,2,3,4,7,8,9-HpCDF     | 5421290   | 1.00 y | 36:03 | 1.0106 | 2.50   | n    |
| Total Hepta-Furans      | -         | - n    | -     | 1.1586 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 193217400 | 1.03 y | 35:42 | 0.8917 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 5159640   | 1.03 y | 35:43 | 1.0682 | 2.50   | n    |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.0682 | 0.00   | n    |
| 13C-OCDD                | 284075000 | 0.88 y | 38:16 | 0.6555 | 200.00 | n    |
| OCDF                    | 9640820   | 0.93 y | 38:23 | 1.3575 | 5.00   | n    |
| OCDD                    | 9336890   | 0.91 y | 38:16 | 1.3147 | 5.00   | n    |
| 37Cl-2,3,7,8-TCDD       | 1900202   | 1.00 y | 20:14 | 1.3256 | 0.50   | n    |
| 13C-2,3,4,7,8-PeCDF     | 273534000 | 1.55 y | 26:50 | 1.0239 | 100.00 | n    |

|                         |           |      |   |       |        |        |   |
|-------------------------|-----------|------|---|-------|--------|--------|---|
| 13C-1,2,3,4,7,8-HxCDF   | 223118900 | 0.51 | y | 32:16 | 0.9046 | 100.00 | n |
| 13C-1,2,3,4,7,8-HxCDD   | 181296400 | 1.33 | y | 33:02 | 0.9952 | 100.00 | y |
| 13C-1,2,3,4,7,8,9-HpCDF | 173909100 | 0.44 | y | 36:02 | 0.8105 | 100.00 | n |

Run #1 Filename 21JL10A4D5 S: 4 I: 1  
 Acquired: 21-JUL-10 16:48:00 Processed: 22-JUL-10 11:22:52  
 Run: 15SE098D2 Analyte: 0023A Cal: 0023A0721104D5

## Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 311991000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 | n    |
| 2,3,7,8-TCDF            | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50   | n    |
| Total Tetra-Furans      | -         | - n    | -     | 1.0327 | 0.00   | n    |
| 13C-2,3,7,8-TCDD        | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 | n    |
| 2,3,7,8-TCDD            | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50   | n    |
| Total Tetra-Dioxins     | -         | - n    | -     | 0.9839 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDF     | 267161000 | 1.54 y | 25:17 | 0.8563 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 6866350   | 1.58 y | 25:19 | 1.0280 | 2.50   | n    |
| 2,3,4,7,8-PeCDF         | 6654750   | 1.57 y | 26:51 | 0.9964 | 2.50   | n    |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.0122 | 0.00   | n    |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.0122 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDD     | 202489300 | 1.56 y | 27:41 | 0.6490 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 4490250   | 1.47 y | 27:43 | 0.8870 | 2.50   | n    |
| Total Penta-Dioxins     | -         | - n    | -     | 0.8870 | 0.00   | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 216693700 | 1.31 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,6,7,8-HxCDF   | 246653000 | 0.52 y | 32:23 | 1.1383 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 6768610   | 1.17 y | 32:17 | 1.0977 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDF       | 6624500   | 1.24 y | 32:24 | 1.0743 | 2.50   | n    |
| 2,3,4,6,7,8-HxCDF       | 6618550   | 1.19 y | 32:54 | 1.0733 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDF       | 6028420   | 1.13 y | 33:32 | 0.9776 | 2.50   | n    |
| Total Hexa-Furans       | -         | - n    | -     | 1.0557 | 0.00   | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 183007300 | 1.15 y | 33:06 | 0.8445 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 4087150   | 1.18 y | 33:03 | 0.8933 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDD       | 5184140   | 1.31 y | 33:07 | 1.1331 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDD       | 5222820   | 1.27 y | 33:22 | 1.1416 | 2.50   | n    |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.0560 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214578400 | 0.43 y | 34:53 | 0.9902 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 7009400   | 1.06 y | 34:54 | 1.3066 | 2.50   | n    |
| 1,2,3,4,7,8,9-HpCDF     | 5421290   | 1.00 y | 36:03 | 1.0106 | 2.50   | n    |
| Total Hepta-Furans      | -         | - n    | -     | 1.1586 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 193217400 | 1.03 y | 35:42 | 0.8917 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 5159640   | 1.03 y | 35:43 | 1.0682 | 2.50   | n    |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.0682 | 0.00   | n    |
| 13C-OCDD                | 284075000 | 0.88 y | 38:16 | 0.6555 | 200.00 | n    |
| OCDF                    | 9640820   | 0.93 y | 38:23 | 1.3575 | 5.00   | n    |
| OCDD                    | 9336890   | 0.91 y | 38:16 | 1.3147 | 5.00   | n    |
| 37Cl-2,3,7,8-TCDD       | 1900202   | 1.00 y | 20:14 | 1.3256 | 0.50   | n    |
| 13C-2,3,4,7,8-PeCDF     | 273534000 | 1.55 y | 26:50 | 1.0239 | 100.00 | n    |

|                         |           |      |   |       |        |        |   |
|-------------------------|-----------|------|---|-------|--------|--------|---|
| 13C-1,2,3,4,7,8-HxCDF   | 223118900 | 0.51 | y | 32:16 | 0.9046 | 100.00 | n |
| 13C-1,2,3,4,7,8-HxCDD   | 159458656 | 1.53 | n | 33:02 | 0.8713 | 100.00 | n |
| 13C-1,2,3,4,7,8,9-HpCDF | 173909100 | 0.44 | y | 36:02 | 0.8105 | 100.00 | n |

Run #2    Filename 21JL10A4D5    S: 5    I: 1  
 Acquired: 21-JUL-10    17:33:53    Processed: 22-JUL-10    11:22:52  
 Run: 15SE098D2    Analyte: 0023A    Cal: 0023A0721104D5

## Comments:

Sample text: ST0721B :CS-2 10DXN334

| Name                    | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 346133000 | 0.79 y | 20:01 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 454963000 | 0.79 y | 19:25 | 1.3144 | 100.00 n |
| 2,3,7,8-TCDF            | 8692490   | 0.78 y | 19:26 | 0.9553 | 2.00 n   |
| Total Tetra-Furans      | -         | - n    | -     | 0.9553 | 0.00 n   |
| 13C-2,3,7,8-TCDD        | 317456000 | 0.78 y | 20:14 | 0.9172 | 100.00 n |
| 2,3,7,8-TCDD            | 5958260   | 0.78 y | 20:15 | 0.9384 | 2.00 n   |
| Total Tetra-Dioxins     | -         | - n    | -     | 0.9384 | 0.00 n   |
| 13C-1,2,3,7,8-PeCDF     | 311858000 | 1.53 y | 25:17 | 0.9010 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 32375300  | 1.57 y | 25:19 | 1.0381 | 10.00 n  |
| 2,3,4,7,8-PeCDF         | 31788800  | 1.54 y | 26:52 | 1.0193 | 10.00 n  |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.0287 | 0.00 n   |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.0287 | 0.00 n   |
| 13C-1,2,3,7,8-PeCDD     | 228833100 | 1.55 y | 27:41 | 0.6611 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 20211030  | 1.54 y | 27:42 | 0.8832 | 10.00 n  |
| Total Penta-Dioxins     | -         | - n    | -     | 0.8832 | 0.00 n   |
| 13C-1,2,3,7,8,9-HxCDD   | 250231000 | 1.31 y | 33:22 | -      | 100.00 n |
| 13C-1,2,3,6,7,8-HxCDF   | 318016000 | 0.52 y | 32:23 | 1.2709 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 34391700  | 1.17 y | 32:17 | 1.0814 | 10.00 n  |
| 1,2,3,6,7,8-HxCDF       | 34994300  | 1.19 y | 32:24 | 1.1004 | 10.00 n  |
| 2,3,4,6,7,8-HxCDF       | 32979800  | 1.17 y | 32:55 | 1.0370 | 10.00 n  |
| 1,2,3,7,8,9-HxCDF       | 28460200  | 1.20 y | 33:33 | 0.8949 | 10.00 n  |
| Total Hexa-Furans       | -         | - n    | -     | 1.0285 | 0.00 n   |
| 13C-1,2,3,6,7,8-HxCDD   | 207728500 | 1.31 y | 33:06 | 0.8301 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 20528920  | 1.23 y | 33:03 | 0.9883 | 10.00 n  |
| 1,2,3,6,7,8-HxCDD       | 25476800  | 1.29 y | 33:07 | 1.2264 | 10.00 n  |
| 1,2,3,7,8,9-HxCDD       | 24026200  | 1.28 y | 33:23 | 1.1566 | 10.00 n  |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.1238 | 0.00 n   |
| 13C-1,2,3,4,6,7,8-HpCDF | 227576800 | 0.43 y | 34:53 | 0.9095 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 30499500  | 1.03 y | 34:54 | 1.3402 | 10.00 n  |
| 1,2,3,4,7,8,9-HpCDF     | 24758800  | 1.01 y | 36:03 | 1.0879 | 10.00 n  |
| Total Hepta-Furans      | -         | - n    | -     | 1.2141 | 0.00 n   |
| 13C-1,2,3,4,6,7,8-HpCDD | 212760000 | 1.04 y | 35:42 | 0.8503 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDD     | 21862400  | 1.02 y | 35:43 | 1.0276 | 10.00 n  |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.0276 | 0.00 n   |
| 13C-OCDD                | 316775000 | 0.88 y | 38:16 | 0.6330 | 200.00 n |
| OCDF                    | 42624800  | 0.89 y | 38:23 | 1.3456 | 20.00 n  |
| OCDD                    | 37017600  | 0.89 y | 38:17 | 1.1686 | 20.00 n  |
| 37Cl-2,3,7,8-TCDD       | 8349040   | 1.00 y | 20:15 | 1.3150 | 2.00 n   |
| 13C-2,3,4,7,8-PeCDF     | 312874000 | 1.54 y | 26:50 | 1.0033 | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 286839800 | 0.51 y | 32:16 | 0.9020 | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDD   | 230077000 | 1.29 y | 33:02 | 1.1076 | 100.00 n |

13C-1,2,3,4,7,8,9-HpCDF 193076000 0.43 y 36:02 0.8484 100.00 n

Run #3 Filename 21JL10A4D5 S: 6 I: 1  
 Acquired: 21-JUL-10 18:18:56 Processed: 22-JUL-10 11:22:53  
 Run: 15SE098D2 Analyte: 0023A Cal: 0023A0721104D5

## Comments:

Sample text: ST0721C :CS-3 10DXN336

| Name                    | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 297616000 | 0.80 y | 20:00 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 414416000 | 0.80 y | 19:23 | 1.3925 | 100.00 n |
| 2,3,7,8-TCDF            | 40815800  | 0.78 y | 19:25 | 0.9849 | 10.00 n  |
| Total Tetra-Furans      | -         | - n    | -     | 0.9849 | 0.00 n   |
| 13C-2,3,7,8-TCDD        | 279542000 | 0.79 y | 20:13 | 0.9393 | 100.00 n |
| 2,3,7,8-TCDD            | 27062400  | 0.80 y | 20:15 | 0.9681 | 10.00 n  |
| Total Tetra-Dioxins     | -         | - n    | -     | 0.9681 | 0.00 n   |
| 13C-1,2,3,7,8-PeCDF     | 256521000 | 1.55 y | 25:18 | 0.8619 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 138997400 | 1.55 y | 25:20 | 1.0837 | 50.00 n  |
| 2,3,4,7,8-PeCDF         | 138743000 | 1.55 y | 26:53 | 1.0817 | 50.00 n  |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.0827 | 0.00 n   |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.0827 | 0.00 n   |
| 13C-1,2,3,7,8-PeCDD     | 199400100 | 1.58 y | 27:43 | 0.6700 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 93821800  | 1.53 y | 27:44 | 0.9410 | 50.00 n  |
| Total Penta-Dioxins     | -         | - n    | -     | 0.9410 | 0.00 n   |
| 13C-1,2,3,7,8,9-HxCDD   | 211830200 | 1.30 y | 33:22 | -      | 100.00 n |
| 13C-1,2,3,6,7,8-HxCDF   | 260157800 | 0.52 y | 32:23 | 1.2281 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 125916200 | 1.16 y | 32:18 | 0.9680 | 50.00 n  |
| 1,2,3,6,7,8-HxCDF       | 145591100 | 1.17 y | 32:23 | 1.1193 | 50.00 n  |
| 2,3,4,6,7,8-HxCDF       | 139989400 | 1.18 y | 32:55 | 1.0762 | 50.00 n  |
| 1,2,3,7,8,9-HxCDF       | 129462400 | 1.18 y | 33:33 | 0.9953 | 50.00 n  |
| Total Hexa-Furans       | -         | - n    | -     | 1.0397 | 0.00 n   |
| 13C-1,2,3,6,7,8-HxCDD   | 194269900 | 1.31 y | 33:07 | 0.9171 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 94117900  | 1.23 y | 33:03 | 0.9689 | 50.00 n  |
| 1,2,3,6,7,8-HxCDD       | 106981800 | 1.27 y | 33:08 | 1.1014 | 50.00 n  |
| 1,2,3,7,8,9-HxCDD       | 108772200 | 1.25 y | 33:23 | 1.1198 | 50.00 n  |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.0634 | 0.00 n   |
| 13C-1,2,3,4,6,7,8-HpCDF | 194898500 | 0.43 y | 34:53 | 0.9201 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 131367000 | 1.01 y | 34:54 | 1.3481 | 50.00 n  |
| 1,2,3,4,7,8,9-HpCDF     | 108439900 | 1.02 y | 36:02 | 1.1128 | 50.00 n  |
| Total Hepta-Furans      | -         | - n    | -     | 1.2304 | 0.00 n   |
| 13C-1,2,3,4,6,7,8-HpCDD | 176478000 | 1.04 y | 35:43 | 0.8331 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDD     | 94723500  | 1.02 y | 35:43 | 1.0735 | 50.00 n  |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.0735 | 0.00 n   |
| 13C-OCDD                | 266609000 | 0.89 y | 38:16 | 0.6293 | 200.00 n |
| OCDF                    | 179957800 | 0.91 y | 38:23 | 1.3500 | 100.00 n |
| OCDD                    | 154054800 | 0.90 y | 38:16 | 1.1557 | 100.00 n |
| 37Cl-2,3,7,8-TCDD       | 36762200  | 1.00 y | 20:14 | 1.3151 | 10.00 n  |
| 13C-2,3,4,7,8-PeCDF     | 262134000 | 1.54 y | 26:51 | 1.0219 | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 206662600 | 0.51 y | 32:17 | 0.7944 | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDD   | 181260500 | 1.32 y | 33:03 | 0.9330 | 100.00 n |

13C-1,2,3,4,7,8,9-HpCDF 164408600 0.43 y 36:02 0.8436 100.00 n



Run #5 Filename 21JL10A4D5 S: 8 I: 1  
 Acquired: 21-JUL-10 19:49:00 Processed: 22-JUL-10 11:22:54  
 Run: 15SE098D2 Analyte: 0023A Cal: 0023A0721104D5

Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name                    | Resp      | RA     | RT    | RRF    | Mod?       |
|-------------------------|-----------|--------|-------|--------|------------|
| 13C-1,2,3,4-TCDD        | 363554000 | 0.80 y | 20:01 | -      | 100.00 n   |
| 13C-2,3,7,8-TCDF        | 402416000 | 0.79 y | 19:24 | 1.1069 | 100.00 n   |
| 2,3,7,8-TCDF            | 166293900 | 0.77 y | 19:25 | 1.0331 | 40.00 n    |
| Total Tetra-Furans      | -         | - n    | -     | 1.0331 | 0.00 n     |
| 13C-2,3,7,8-TCDD        | 314971000 | 0.80 y | 20:13 | 0.8664 | 100.00 n   |
| 2,3,7,8-TCDD            | 127934900 | 0.78 y | 20:15 | 1.0154 | 40.00 n    |
| Total Tetra-Dioxins     | -         | - n    | -     | 1.0154 | 0.00 n     |
| 13C-1,2,3,7,8-PeCDF     | 317818000 | 1.53 y | 25:17 | 0.8742 | 100.00 n   |
| 1,2,3,7,8-PeCDF         | 712080000 | 1.54 y | 25:19 | 1.1203 | 200.00 n   |
| 2,3,4,7,8-PeCDF         | 692103000 | 1.53 y | 26:51 | 1.0888 | 200.00 n   |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.1045 | 0.00 n     |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.1045 | 0.00 n     |
| 13C-1,2,3,7,8-PeCDD     | 237598000 | 1.55 y | 27:40 | 0.6535 | 100.00 n   |
| 1,2,3,7,8-PeCDD         | 458679000 | 1.50 y | 27:43 | 0.9652 | 200.00 n   |
| Total Penta-Dioxins     | -         | - n    | -     | 0.9652 | 0.00 n     |
| 13C-1,2,3,7,8,9-HxCDD   | 248923000 | 1.30 y | 33:22 | -      | 100.00 n   |
| 13C-1,2,3,6,7,8-HxCDF   | 287856500 | 0.52 y | 32:23 | 1.1564 | 100.00 n   |
| 1,2,3,4,7,8-HxCDF       | 658410000 | 1.16 y | 32:17 | 1.1436 | 200.00 n   |
| 1,2,3,6,7,8-HxCDF       | 673142000 | 1.18 y | 32:24 | 1.1692 | 200.00 n   |
| 2,3,4,6,7,8-HxCDF       | 645815000 | 1.17 y | 32:54 | 1.1218 | 200.00 n   |
| 1,2,3,7,8,9-HxCDF       | 567208000 | 1.17 y | 33:33 | 0.9852 | 200.00 n   |
| Total Hexa-Furans       | -         | - n    | -     | 1.1050 | 0.00 n     |
| 13C-1,2,3,6,7,8-HxCDD   | 197349200 | 1.31 y | 33:06 | 0.7928 | 100.00 n   |
| 1,2,3,4,7,8-HxCDD       | 458143000 | 1.26 y | 33:03 | 1.1607 | 200.00 Y ✓ |
| 1,2,3,6,7,8-HxCDD       | 484675000 | 1.28 y | 33:07 | 1.2280 | 200.00 Y ✓ |
| 1,2,3,7,8,9-HxCDD       | 488147000 | 1.26 y | 33:23 | 1.2368 | 200.00 n   |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.2085 | 0.00 n     |
| 13C-1,2,3,4,6,7,8-HpCDF | 214761200 | 0.43 y | 34:53 | 0.8628 | 100.00 n   |
| 1,2,3,4,6,7,8-HpCDF     | 593215000 | 1.01 y | 34:54 | 1.3811 | 200.00 n   |
| 1,2,3,4,7,8,9-HpCDF     | 485366000 | 1.01 y | 36:03 | 1.1300 | 200.00 n   |
| Total Hepta-Furans      | -         | - n    | -     | 1.2556 | 0.00 n     |
| 13C-1,2,3,4,6,7,8-HpCDD | 197451500 | 1.05 y | 35:42 | 0.7932 | 100.00 n   |
| 1,2,3,4,6,7,8-HpCDD     | 435214000 | 1.03 y | 35:43 | 1.1021 | 200.00 n   |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.1021 | 0.00 n     |
| 13C-OCDD                | 291770000 | 0.90 y | 38:16 | 0.5861 | 200.00 n   |
| OCDF                    | 820312000 | 0.90 y | 38:23 | 1.4058 | 400.00 n   |
| OCDD                    | 694943000 | 0.90 y | 38:16 | 1.1909 | 400.00 n   |
| 37Cl-2,3,7,8-TCDD       | 166729600 | 1.00 y | 20:15 | 1.3234 | 40.00 n    |
| 13C-2,3,4,7,8-PeCDF     | 324374000 | 1.54 y | 26:50 | 1.0206 | 100.00 n   |

|                         |           |      |   |       |        |        |   |
|-------------------------|-----------|------|---|-------|--------|--------|---|
| 13C-1,2,3,4,7,8-HxCDF   | 267009400 | 0.51 | y | 32:16 | 0.9276 | 100.00 | n |
| 13C-1,2,3,4,7,8-HxCDD   | 227922100 | 1.29 | y | 33:02 | 1.1549 | 100.00 | n |
| 13C-1,2,3,4,7,8,9-HpCDF | 181968100 | 0.44 | y | 36:02 | 0.8473 | 100.00 | n |

Run #5 Filename 21JL10A4D5 S: 8 I: 1  
 Acquired: 21-JUL-10 19:49:00 Processed: 22-JUL-10 11:22:54  
 Run: 15SE098D2 Analyte: 0023A Cal: 0023A0721104D5

## Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name                    | Resp      | RA       | RT    | RRF    | Mod?     |
|-------------------------|-----------|----------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 363554000 | 0.80 y   | 20:01 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 402416000 | 0.79 y   | 19:24 | 1.1069 | 100.00 n |
| 2,3,7,8-TCDF            | 166293900 | 0.77 y   | 19:25 | 1.0331 | 40.00 n  |
| Total Tetra-Furans      | -         | - n      | -     | 1.0331 | 0.00 n   |
| 13C-2,3,7,8-TCDD        | 314971000 | 0.80 y   | 20:13 | 0.8664 | 100.00 n |
| 2,3,7,8-TCDD            | 127934900 | 0.78 y   | 20:15 | 1.0154 | 40.00 n  |
| Total Tetra-Dioxins     | -         | - n      | -     | 1.0154 | 0.00 n   |
| 13C-1,2,3,7,8-PeCDF     | 317818000 | 1.53 y   | 25:17 | 0.8742 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 712080000 | 1.54 y   | 25:19 | 1.1203 | 200.00 n |
| 2,3,4,7,8-PeCDF         | 692103000 | 1.53 y   | 26:51 | 1.0888 | 200.00 n |
| Total F2 Penta-Furans   | -         | - n      | -     | 1.1045 | 0.00 n   |
| Total F1 Penta-Furans   | -         | - n      | -     | 1.1045 | 0.00 n   |
| 13C-1,2,3,7,8-PeCDD     | 237598000 | 1.55 y   | 27:40 | 0.6535 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 458679000 | 1.50 y   | 27:43 | 0.9652 | 200.00 n |
| Total Penta-Dioxins     | -         | - n      | -     | 0.9652 | 0.00 n   |
| 13C-1,2,3,7,8,9-HxCDD   | 248923000 | 1.30 y   | 33:22 | -      | 100.00 n |
| 13C-1,2,3,6,7,8-HxCDF   | 287856500 | 0.52 y   | 32:23 | 1.1564 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 658410000 | 1.16 y   | 32:17 | 1.1436 | 200.00 n |
| 1,2,3,6,7,8-HxCDF       | 673142000 | 1.18 y   | 32:24 | 1.1692 | 200.00 n |
| 2,3,4,6,7,8-HxCDF       | 645815000 | 1.17 y   | 32:54 | 1.1218 | 200.00 n |
| 1,2,3,7,8,9-HxCDF       | 567208000 | 1.17 y   | 33:33 | 0.9852 | 200.00 n |
| Total Hexa-Furans       | -         | - n      | -     | 1.1050 | 0.00 n   |
| 13C-1,2,3,6,7,8-HxCDD   | 197349200 | 1.31 y   | 33:06 | 0.7928 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 422231040 | 1.45 (n) | 33:03 | 1.0698 | 200.00 n |
| 1,2,3,6,7,8-HxCDD       | 481044000 | 1.12 y   | 33:07 | 1.2188 | 200.00 n |
| 1,2,3,7,8,9-HxCDD       | 488146000 | 1.26 y   | 33:23 | 1.2368 | 200.00 n |
| Total Hexa-Dioxins      | -         | - n      | -     | 1.1751 | 0.00 n   |
| 13C-1,2,3,4,6,7,8-HpCDF | 214761200 | 0.43 y   | 34:53 | 0.8628 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 593215000 | 1.01 y   | 34:54 | 1.3811 | 200.00 n |
| 1,2,3,4,7,8,9-HpCDF     | 485366000 | 1.01 y   | 36:03 | 1.1300 | 200.00 n |
| Total Hepta-Furans      | -         | - n      | -     | 1.2556 | 0.00 n   |
| 13C-1,2,3,4,6,7,8-HpCDD | 197451500 | 1.05 y   | 35:42 | 0.7932 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDD     | 435214000 | 1.03 y   | 35:43 | 1.1021 | 200.00 n |
| Total Hepta-Dioxins     | -         | - n      | -     | 1.1021 | 0.00 n   |
| 13C-OCDD                | 291770000 | 0.90 y   | 38:16 | 0.5861 | 200.00 n |
| OCDF                    | 820312000 | 0.90 y   | 38:23 | 1.4058 | 400.00 n |
| OCDD                    | 694943000 | 0.90 y   | 38:16 | 1.1909 | 400.00 n |
| 37Cl-2,3,7,8-TCDD       | 166729600 | 1.00 y   | 20:15 | 1.3234 | 40.00 n  |
| 13C-2,3,4,7,8-PeCDF     | 324374000 | 1.54 y   | 26:50 | 1.0206 | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 267009400 | 0.51 y   | 32:16 | 0.9276 | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDD   | 227922100 | 1.29 y   | 33:02 | 1.1549 | 100.00 n |

13C-1,2,3,4,7,8,9-HpCDF 181968100 0.44 y 36:02 0.8473 100.00 n

Run #4    Filename 21JL10A4D5    S: 7    I: 1  
 Acquired: 21-JUL-10    19:03:58    Processed: 22-JUL-10    11:22:53  
 Run: 15SE098D2    Analyte: 0023A    Cal: 0023A0721104D5

Comments:

Sample text: ST0721D :CS-5 10DXN339

| Name                    | Resp       | RA     | RT    | RRF    | Mod?      |
|-------------------------|------------|--------|-------|--------|-----------|
| 13C-1,2,3,4-TCDD        | 350659000  | 0.80 y | 20:02 | -      | 100.00 n  |
| 13C-2,3,7,8-TCDF        | 360772000  | 0.79 y | 19:24 | 1.0288 | 100.00 n  |
| 2,3,7,8-TCDF            | 697458000  | 0.77 y | 19:25 | 0.9666 | 200.00 n  |
| Total Tetra-Furans      | -          | - n    | -     | 0.9666 | 0.00 n    |
| 13C-2,3,7,8-TCDD        | 309835000  | 0.78 y | 20:14 | 0.8836 | 100.00 n  |
| 2,3,7,8-TCDD            | 626791000  | 0.79 y | 20:16 | 1.0115 | 200.00 n  |
| Total Tetra-Dioxins     | -          | - n    | -     | 1.0115 | 0.00 n    |
| 13C-1,2,3,7,8-PeCDF     | 310980000  | 1.54 y | 25:18 | 0.8868 | 100.00 n  |
| 1,2,3,7,8-PeCDF         | 3461250000 | 1.54 y | 25:20 | 1.1130 | 1000.00 n |
| 2,3,4,7,8-PeCDF         | 3239400000 | 1.52 y | 26:52 | 1.0417 | 1000.00 n |
| Total F2 Penta-Furans   | -          | - n    | -     | 1.0773 | 0.00 n    |
| Total F1 Penta-Furans   | -          | - n    | -     | 1.0773 | 0.00 n    |
| 13C-1,2,3,7,8-PeCDD     | 235100700  | 1.56 y | 27:42 | 0.6705 | 100.00 n  |
| 1,2,3,7,8-PeCDD         | 2235314000 | 1.50 y | 27:44 | 0.9508 | 1000.00 n |
| Total Penta-Dioxins     | -          | - n    | -     | 0.9508 | 0.00 n    |
| 13C-1,2,3,7,8,9-HxCDD   | 256316000  | 1.29 y | 33:22 | -      | 100.00 n  |
| 13C-1,2,3,6,7,8-HxCDF   | 298409000  | 0.52 y | 32:23 | 1.1642 | 100.00 n  |
| 1,2,3,4,7,8-HxCDF       | 3131920000 | 1.15 y | 32:17 | 1.0495 | 1000.00 n |
| 1,2,3,6,7,8-HxCDF       | 3410730000 | 1.19 y | 32:24 | 1.1430 | 1000.00 n |
| 2,3,4,6,7,8-HxCDF       | 3245730000 | 1.18 y | 32:55 | 1.0877 | 1000.00 n |
| 1,2,3,7,8,9-HxCDF       | 2825950000 | 1.18 y | 33:33 | 0.9470 | 1000.00 n |
| Total Hexa-Furans       | -          | - n    | -     | 1.0568 | 0.00 n    |
| 13C-1,2,3,6,7,8-HxCDD   | 198188400  | 1.30 y | 33:07 | 0.7732 | 100.00 n  |
| 1,2,3,4,7,8-HxCDD       | 2319900000 | 1.23 y | 33:03 | 1.1706 | 1000.00 n |
| 1,2,3,6,7,8-HxCDD       | 2219442000 | 1.26 y | 33:07 | 1.1199 | 1000.00 n |
| 1,2,3,7,8,9-HxCDD       | 2474590000 | 1.26 y | 33:23 | 1.2486 | 1000.00 n |
| Total Hexa-Dioxins      | -          | - n    | -     | 1.1797 | 0.00 n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 222373600  | 0.44 y | 34:54 | 0.8676 | 100.00 n  |
| 1,2,3,4,6,7,8-HpCDF     | 3008480000 | 1.01 y | 34:54 | 1.3529 | 1000.00 n |
| 1,2,3,4,7,8,9-HpCDF     | 2503650000 | 1.02 y | 36:03 | 1.1259 | 1000.00 n |
| Total Hepta-Furans      | -          | - n    | -     | 1.2394 | 0.00 n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 196025300  | 1.04 y | 35:42 | 0.7648 | 100.00 n  |
| 1,2,3,4,6,7,8-HpCDD     | 2131190000 | 1.02 y | 35:43 | 1.0872 | 1000.00 n |
| Total Hepta-Dioxins     | -          | - n    | -     | 1.0872 | 0.00 n    |
| 13C-OCDD                | 305368000  | 0.90 y | 38:16 | 0.5957 | 200.00 n  |
| OCDF                    | 4252770000 | 0.90 y | 38:23 | 1.3927 | 2000.00 n |
| OCDD                    | 3562830000 | 0.90 y | 38:16 | 1.1667 | 2000.00 n |
| 37Cl-2,3,7,8-TCDD       | 837356000  | 1.00 y | 20:15 | 1.3513 | 200.00 n  |
| 13C-2,3,4,7,8-PeCDF     | 297653000  | 1.53 y | 26:50 | 0.9571 | 100.00 n  |
| 13C-1,2,3,4,7,8-HxCDF   | 256243600  | 0.51 y | 32:16 | 0.8587 | 100.00 n  |
| 13C-1,2,3,4,7,8-HxCDD   | 218307200  | 1.31 y | 33:02 | 1.1015 | 100.00 n  |

13C-1,2,3,4,7,8,9-HpCDF 186494800 0.44 y 36:02 0.8387 100.00 n

Run: 15SE098D2 Analyte: 23 Cal: 230721104D5

ST0721A : CS-1 10DXN342 ST0721B : CS-2 10DXN334 ST0721C : CS-3 10DXN336  
 ST0721D : CS-5 10DXN339 ST0721E : CS-4 10DXN337

21JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D5

| Name                  | Mean  | S. D. | %RSD   | RRF1 | RRF2 | RRF3 | RRF4 | RRF5 |
|-----------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,4-TCDD      | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-2,3,7,8-TCDF      | 1.229 | 0.154 | 12.5 % | 1.30 | 1.31 | 1.39 | 1.03 | 1.11 |
| 2,3,7,8-TCDF          | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 0.97 | 1.03 |
| Total Tetra-Furans    | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 0.97 | 1.03 |
| 13C-2,3,7,8-TCDD      | 0.905 | 0.029 | 3.25 % | 0.92 | 0.92 | 0.94 | 0.88 | 0.87 |
| 2,3,7,8-TCDD          | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.01 | 1.02 |
| Total Tetra-Dioxins   | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.01 | 1.02 |
| 13C-1,2,3,7,8-PeCDF   | 0.876 | 0.018 | 2.08 % | 0.86 | 0.90 | 0.86 | 0.89 | 0.87 |
| 1,2,3,7,8-PeCDF       | 1.077 | 0.042 | 3.92 % | 1.03 | 1.04 | 1.08 | 1.11 | 1.12 |
| 2,3,4,7,8-PeCDF       | 1.046 | 0.040 | 3.80 % | 1.00 | 1.02 | 1.08 | 1.04 | 1.09 |
| Total F2 Penta-Furans | 1.061 | 0.039 | 3.67 % | 1.01 | 1.03 | 1.08 | 1.08 | 1.10 |
| Total F1 Penta-Furans | 1.061 | 0.039 | 3.67 % | 1.01 | 1.03 | 1.08 | 1.08 | 1.10 |
| 13C-1,2,3,7,8-PeCDD   | 0.661 | 0.010 | 1.45 % | 0.65 | 0.66 | 0.67 | 0.67 | 0.65 |
| 1,2,3,7,8-PeCDD       | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.95 | 0.97 |
| Total Penta-Dioxins   | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.95 | 0.97 |
| 13C-1,2,3,7,8,9-HxCDD | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-1,2,3,6,7,8-HxCDF | 1.192 | 0.056 | 4.68 % | 1.14 | 1.27 | 1.23 | 1.16 | 1.16 |
| 1,2,3,4,7,8-HxCDF     | 1.068 | 0.065 | 6.13 % | 1.10 | 1.08 | 0.97 | 1.05 | 1.14 |
| 1,2,3,6,7,8-HxCDF     | 1.121 | 0.037 | 3.28 % | 1.07 | 1.10 | 1.12 | 1.14 | 1.17 |
| 2,3,4,6,7,8-HxCDF     | 1.079 | 0.030 | 2.82 % | 1.07 | 1.04 | 1.08 | 1.09 | 1.12 |
| 1,2,3,7,8,9-HxCDF     | 0.960 | 0.041 | 4.23 % | 0.98 | 0.89 | 1.00 | 0.95 | 0.99 |
| Total Hexa-Furans     | 1.057 | 0.029 | 2.77 % | 1.06 | 1.03 | 1.04 | 1.06 | 1.10 |
| 13C-1,2,3,6,7,8-HxCDD | 0.631 | 0.055 | 6.68 % | 0.84 | 0.83 | 0.92 | 0.77 | 0.79 |
| 1,2,3,4,7,8-HxCDD     | 1.037 | 0.122 | 11.8 % | 0.90 | 0.99 | 0.97 | 1.17 | 1.16 |
| 1,2,3,6,7,8-HxCDD     | 1.163 | 0.060 | 5.18 % | 1.14 | 1.23 | 1.10 | 1.12 | 1.23 |
| 1,2,3,7,8,9-HxCDD     | 1.182 | 0.057 | 4.86 % | 1.15 | 1.16 | 1.12 | 1.25 | 1.24 |
| Total Hexa-Dioxins    | 1.127 | 0.067 | 5.93 % | 1.06 | 1.12 | 1.06 | 1.18 | 1.21 |

|                         |       |       |        |      |      |      |      |      |
|-------------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,4,6,7,8-HpCDF | 0.910 | 0.051 | 5.65 % | 0.99 | 0.91 | 0.92 | 0.87 | 0.86 |
| 1,2,3,4,6,7,8-HpCDD     | 1.346 | 0.027 | 1.99 % | 1.31 | 1.34 | 1.35 | 1.35 | 1.38 |
| 1,2,3,4,7,8,9-HpCDF     | 1.093 | 0.049 | 4.49 % | 1.01 | 1.09 | 1.11 | 1.13 | 1.13 |
| Total Hepta-Furans      | 1.220 | 0.037 | 3.05 % | 1.16 | 1.21 | 1.23 | 1.24 | 1.26 |
| 13C-1,2,3,4,6,7,8-HpCDD | 0.827 | 0.049 | 5.98 % | 0.89 | 0.85 | 0.83 | 0.76 | 0.79 |
| 1,2,3,4,6,7,8-HpCDD     | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.09 | 1.10 |
| Total Hepta-Dioxins     | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.09 | 1.10 |
| 13C-OCDD                | 0.620 | 0.029 | 4.60 % | 0.66 | 0.63 | 0.63 | 0.60 | 0.59 |
| OCDF                    | 1.370 | 0.027 | 1.98 % | 1.36 | 1.35 | 1.35 | 1.39 | 1.41 |
| OCDD                    | 1.199 | 0.066 | 5.48 % | 1.31 | 1.17 | 1.16 | 1.17 | 1.19 |
| 37Cl-2,3,7,8-TCDD       | 1.326 | 0.015 | 1.12 % | 1.33 | 1.31 | 1.32 | 1.35 | 1.32 |
| 13C-2,3,4,7,8-PeCDF     | 1.005 | 0.028 | 2.80 % | 1.02 | 1.00 | 1.02 | 0.96 | 1.02 |
| 13C-1,2,3,4,7,8-HxCDF   | 0.877 | 0.053 | 6.00 % | 0.90 | 0.90 | 0.79 | 0.86 | 0.93 |
| 13C-1,2,3,4,7,8-HxCDD   | 1.058 | 0.091 | 8.62 % | 1.00 | 1.11 | 0.93 | 1.10 | 1.15 |
| 13C-1,2,3,4,7,8,9-HpCDF | 0.838 | 0.016 | 1.87 % | 0.81 | 0.85 | 0.84 | 0.84 | 0.85 |



Run #1    Filename 21JL10A4D5    S: 4    I: 1  
 Acquired: 21-JUL-10    16:48:00    Processed: 22-JUL-10    11:47:10  
 Run: 15SE098D2    Analyte: 23    Cal: 230721104D5  
 Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 311991000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 | n    |
| 2,3,7,8-TCDF            | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50   | n    |
| Total Tetra-Furans      | -         | - n    | -     | 1.0327 | 0.00   | n    |
| 13C-2,3,7,8-TCDD        | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 | n    |
| 2,3,7,8-TCDD            | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50   | n    |
| Total Tetra-Dioxins     | -         | - n    | -     | 0.9839 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDF     | 267161000 | 1.54 y | 25:17 | 0.8563 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 6866350   | 1.58 y | 25:19 | 1.0280 | 2.50   | n    |
| 2,3,4,7,8-PeCDF         | 6654750   | 1.57 y | 26:51 | 0.9964 | 2.50   | n    |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.0122 | 0.00   | n    |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.0122 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDD     | 202489300 | 1.56 y | 27:41 | 0.6490 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 4490250   | 1.47 y | 27:43 | 0.8870 | 2.50   | n    |
| Total Penta-Dioxins     | -         | - n    | -     | 0.8870 | 0.00   | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 216693700 | 1.31 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,6,7,8-HxCDF   | 246653000 | 0.52 y | 32:23 | 1.1383 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 6768610   | 1.17 y | 32:17 | 1.0977 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDF       | 6624500   | 1.24 y | 32:24 | 1.0743 | 2.50   | n    |
| 2,3,4,6,7,8-HxCDF       | 6618550   | 1.19 y | 32:54 | 1.0733 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDF       | 6028420   | 1.13 y | 33:32 | 0.9776 | 2.50   | n    |
| Total Hexa-Furans       | -         | - n    | -     | 1.0557 | 0.00   | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 182168900 | 1.32 y | 33:06 | 0.8407 | 100.00 | y ✓  |
| 1,2,3,4,7,8-HxCDD       | 4087150   | 1.18 y | 33:03 | 0.8974 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDD       | 5184140   | 1.31 y | 33:07 | 1.1383 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDD       | 5222820   | 1.27 y | 33:22 | 1.1468 | 2.50   | n    |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.0609 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214578400 | 0.43 y | 34:53 | 0.9902 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 7009400   | 1.06 y | 34:54 | 1.3066 | 2.50   | n    |
| 1,2,3,4,7,8,9-HpCDF     | 5421290   | 1.00 y | 36:03 | 1.0106 | 2.50   | n    |
| Total Hepta-Furans      | -         | - n    | -     | 1.1586 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 193217400 | 1.03 y | 35:42 | 0.8917 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 5159640   | 1.03 y | 35:43 | 1.0682 | 2.50   | n    |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.0682 | 0.00   | n    |
| 13C-OCDD                | 284075000 | 0.88 y | 38:16 | 0.6555 | 200.00 | n    |
| OCDF                    | 9640820   | 0.93 y | 38:23 | 1.3575 | 5.00   | n    |
| OCDD                    | 9336890   | 0.91 y | 38:16 | 1.3147 | 5.00   | n    |
| 37C1-2,3,7,8-TCDD       | 1900202   | 1.00 y | 20:14 | 1.3256 | 0.50   | n    |
| 13C-2,3,4,7,8-PeCDF     | 273534000 | 1.55 y | 26:50 | 1.0239 | 100.00 | n    |

|                         |           |      |   |       |        |        |   |
|-------------------------|-----------|------|---|-------|--------|--------|---|
| 13C-1,2,3,4,7,8-HxCDF   | 223118900 | 0.51 | y | 32:16 | 0.9046 | 100.00 | n |
| 13C-1,2,3,4,7,8-HxCDD   | 181296400 | 1.33 | y | 33:02 | 0.9952 | 100.00 | y |
| 13C-1,2,3,4,7,8,9-HpCDF | 173909100 | 0.44 | y | 36:02 | 0.8105 | 100.00 | n |

Run #1 Filename 21JL10A4D5 S: 4 I: 1  
 Acquired: 21-JUL-10 16:48:00 Processed: 22-JUL-10 11:47:10  
 Run: 15SE098D2 Analyte: 23 Cal: 230721104D5

## Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 311991000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 | n    |
| 2,3,7,8-TCDF            | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50   | n    |
| Total Tetra-Furans      | -         | - n    | -     | 1.0327 | 0.00   | n    |
| 13C-2,3,7,8-TCDD        | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 | n    |
| 2,3,7,8-TCDD            | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50   | n    |
| Total Tetra-Dioxins     | -         | - n    | -     | 0.9839 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDF     | 267161000 | 1.54 y | 25:17 | 0.8563 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 6866350   | 1.58 y | 25:19 | 1.0280 | 2.50   | n    |
| 2,3,4,7,8-PeCDF         | 6654750   | 1.57 y | 26:51 | 0.9964 | 2.50   | n    |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.0122 | 0.00   | n    |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.0122 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDD     | 202489300 | 1.56 y | 27:41 | 0.6490 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 4490250   | 1.47 y | 27:43 | 0.8870 | 2.50   | n    |
| Total Penta-Dioxins     | -         | - n    | -     | 0.8870 | 0.00   | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 216693700 | 1.31 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,6,7,8-HxCDF   | 246653000 | 0.52 y | 32:23 | 1.1383 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 6768610   | 1.17 y | 32:17 | 1.0977 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDF       | 6624500   | 1.24 y | 32:24 | 1.0743 | 2.50   | n    |
| 2,3,4,6,7,8-HxCDF       | 6618550   | 1.19 y | 32:54 | 1.0733 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDF       | 6028420   | 1.13 y | 33:32 | 0.9776 | 2.50   | n    |
| Total Hexa-Furans       | -         | - n    | -     | 1.0557 | 0.00   | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 183007300 | 1.15 y | 33:06 | 0.8445 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 4087150   | 1.18 y | 33:03 | 0.8933 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDD       | 5184140   | 1.31 y | 33:07 | 1.1331 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDD       | 5222820   | 1.27 y | 33:22 | 1.1416 | 2.50   | n    |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.0560 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214578400 | 0.43 y | 34:53 | 0.9902 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 7009400   | 1.06 y | 34:54 | 1.3066 | 2.50   | n    |
| 1,2,3,4,7,8,9-HpCDF     | 5421290   | 1.00 y | 36:03 | 1.0106 | 2.50   | n    |
| Total Hepta-Furans      | -         | - n    | -     | 1.1586 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 193217400 | 1.03 y | 35:42 | 0.8917 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 5159640   | 1.03 y | 35:43 | 1.0682 | 2.50   | n    |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.0682 | 0.00   | n    |
| 13C-OCDD                | 284075000 | 0.88 y | 38:16 | 0.6555 | 200.00 | n    |
| OCDF                    | 9640820   | 0.93 y | 38:23 | 1.3575 | 5.00   | n    |
| OCDD                    | 9336890   | 0.91 y | 38:16 | 1.3147 | 5.00   | n    |
| 37Cl-2,3,7,8-TCDD       | 1900202   | 1.00 y | 20:14 | 1.3256 | 0.50   | n    |
| 13C-2,3,4,7,8-PeCDF     | 273534000 | 1.55 y | 26:50 | 1.0239 | 100.00 | n    |

|                         |           |      |   |       |        |        |   |
|-------------------------|-----------|------|---|-------|--------|--------|---|
| 13C-1,2,3,4,7,8-HxCDF   | 223118900 | 0.51 | y | 32:16 | 0.9046 | 100.00 | n |
| 13C-1,2,3,4,7,8-HxCDD   | 159458656 | 1.53 | n | 33:02 | 0.8713 | 100.00 | n |
| 13C-1,2,3,4,7,8,9-HpCDF | 173909100 | 0.44 | y | 36:02 | 0.8105 | 100.00 | n |

Run #2    Filename 21JL10A4D5    S: 5    I: 1  
 Acquired: 21-JUL-10    17:33:53    Processed: 22-JUL-10    11:47:10  
 Run: 15SE098D2    Analyte: 23    Cal: 230721104D5

## Comments:

Sample text: ST0721B :CS-2 10DXN334

| Name                    | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 346133000 | 0.79 y | 20:01 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 454963000 | 0.79 y | 19:25 | 1.3144 | 100.00 n |
| 2,3,7,8-TCDF            | 8692490   | 0.78 y | 19:26 | 0.9553 | 2.00 n   |
| Total Tetra-Furans      | -         | - n    | -     | 0.9553 | 0.00 n   |
| 13C-2,3,7,8-TCDD        | 317456000 | 0.78 y | 20:14 | 0.9172 | 100.00 n |
| 2,3,7,8-TCDD            | 5958260   | 0.78 y | 20:15 | 0.9384 | 2.00 n   |
| Total Tetra-Dioxins     | -         | - n    | -     | 0.9384 | 0.00 n   |
| 13C-1,2,3,7,8-PeCDF     | 311858000 | 1.53 y | 25:17 | 0.9010 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 32375300  | 1.57 y | 25:19 | 1.0381 | 10.00 n  |
| 2,3,4,7,8-PeCDF         | 31788800  | 1.54 y | 26:52 | 1.0193 | 10.00 n  |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.0287 | 0.00 n   |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.0287 | 0.00 n   |
| 13C-1,2,3,7,8-PeCDD     | 228833100 | 1.55 y | 27:41 | 0.6611 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 20211030  | 1.54 y | 27:42 | 0.8832 | 10.00 n  |
| Total Penta-Dioxins     | -         | - n    | -     | 0.8832 | 0.00 n   |
| 13C-1,2,3,7,8,9-HxCDD   | 250231000 | 1.31 y | 33:22 | -      | 100.00 n |
| 13C-1,2,3,6,7,8-HxCDF   | 318016000 | 0.52 y | 32:23 | 1.2709 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 34391700  | 1.17 y | 32:17 | 1.0814 | 10.00 n  |
| 1,2,3,6,7,8-HxCDF       | 34994300  | 1.19 y | 32:24 | 1.1004 | 10.00 n  |
| 2,3,4,6,7,8-HxCDF       | 32979800  | 1.17 y | 32:55 | 1.0370 | 10.00 n  |
| 1,2,3,7,8,9-HxCDF       | 28460200  | 1.20 y | 33:33 | 0.8949 | 10.00 n  |
| Total Hexa-Furans       | -         | - n    | -     | 1.0285 | 0.00 n   |
| 13C-1,2,3,6,7,8-HxCDD   | 207728500 | 1.31 y | 33:06 | 0.8301 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 20528920  | 1.23 y | 33:03 | 0.9883 | 10.00 n  |
| 1,2,3,6,7,8-HxCDD       | 25476800  | 1.29 y | 33:07 | 1.2264 | 10.00 n  |
| 1,2,3,7,8,9-HxCDD       | 24026200  | 1.28 y | 33:23 | 1.1566 | 10.00 n  |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.1238 | 0.00 n   |
| 13C-1,2,3,4,6,7,8-HpCDF | 227576800 | 0.43 y | 34:53 | 0.9095 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 30499500  | 1.03 y | 34:54 | 1.3402 | 10.00 n  |
| 1,2,3,4,7,8,9-HpCDF     | 24758800  | 1.01 y | 36:03 | 1.0879 | 10.00 n  |
| Total Hepta-Furans      | -         | - n    | -     | 1.2141 | 0.00 n   |
| 13C-1,2,3,4,6,7,8-HpCDD | 212760000 | 1.04 y | 35:42 | 0.8503 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDD     | 21862400  | 1.02 y | 35:43 | 1.0276 | 10.00 n  |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.0276 | 0.00 n   |
| 13C-OCDD                | 316775000 | 0.88 y | 38:16 | 0.6330 | 200.00 n |
| OCDF                    | 42624800  | 0.89 y | 38:23 | 1.3456 | 20.00 n  |
| OCDD                    | 37017600  | 0.89 y | 38:17 | 1.1686 | 20.00 n  |
| 37Cl-2,3,7,8-TCDD       | 8349040   | 1.00 y | 20:15 | 1.3150 | 2.00 n   |
| 13C-2,3,4,7,8-PeCDF     | 312874000 | 1.54 y | 26:50 | 1.0033 | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 286839800 | 0.51 y | 32:16 | 0.9020 | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDD   | 230077000 | 1.29 y | 33:02 | 1.1076 | 100.00 n |

13C-1,2,3,4,7,8,9-HpCDF 193076000 0.43 y 36:02 0.8484 100.00 n

Run #3 Filename 21JL10A4D5 S: 6 I: 1  
 Acquired: 21-JUL-10 18:18:56 Processed: 22-JUL-10 11:47:11  
 Run: 15SE098D2 Analyte: 23 Cal: 230721104D5

## Comments:

Sample text: ST0721C :CS-3 10DXN336

| Name                    | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 297616000 | 0.80 y | 20:00 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 414416000 | 0.80 y | 19:23 | 1.3925 | 100.00 n |
| 2,3,7,8-TCDF            | 40815800  | 0.78 y | 19:25 | 0.9849 | 10.00 n  |
| Total Tetra-Furans      | -         | - n    | -     | 0.9849 | 0.00 n   |
| 13C-2,3,7,8-TCDD        | 279542000 | 0.79 y | 20:13 | 0.9393 | 100.00 n |
| 2,3,7,8-TCDD            | 27062400  | 0.80 y | 20:15 | 0.9681 | 10.00 n  |
| Total Tetra-Dioxins     | -         | - n    | -     | 0.9681 | 0.00 n   |
| 13C-1,2,3,7,8-PeCDF     | 256521000 | 1.55 y | 25:18 | 0.8619 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 138997400 | 1.55 y | 25:20 | 1.0837 | 50.00 n  |
| 2,3,4,7,8-PeCDF         | 138743000 | 1.55 y | 26:53 | 1.0817 | 50.00 n  |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.0827 | 0.00 n   |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.0827 | 0.00 n   |
| 13C-1,2,3,7,8-PeCDD     | 199400100 | 1.58 y | 27:43 | 0.6700 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 93821800  | 1.53 y | 27:44 | 0.9410 | 50.00 n  |
| Total Penta-Dioxins     | -         | - n    | -     | 0.9410 | 0.00 n   |
| 13C-1,2,3,7,8,9-HxCDD   | 211830200 | 1.30 y | 33:22 | -      | 100.00 n |
| 13C-1,2,3,6,7,8-HxCDF   | 260157800 | 0.52 y | 32:23 | 1.2281 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 125916200 | 1.16 y | 32:18 | 0.9680 | 50.00 n  |
| 1,2,3,6,7,8-HxCDF       | 145591100 | 1.17 y | 32:23 | 1.1193 | 50.00 n  |
| 2,3,4,6,7,8-HxCDF       | 139989400 | 1.18 y | 32:55 | 1.0762 | 50.00 n  |
| 1,2,3,7,8,9-HxCDF       | 129462400 | 1.18 y | 33:33 | 0.9953 | 50.00 n  |
| Total Hexa-Furans       | -         | - n    | -     | 1.0397 | 0.00 n   |
| 13C-1,2,3,6,7,8-HxCDD   | 194269900 | 1.31 y | 33:07 | 0.9171 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 94117900  | 1.23 y | 33:03 | 0.9689 | 50.00 n  |
| 1,2,3,6,7,8-HxCDD       | 106981800 | 1.27 y | 33:08 | 1.1014 | 50.00 n  |
| 1,2,3,7,8,9-HxCDD       | 108772200 | 1.25 y | 33:23 | 1.1198 | 50.00 n  |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.0634 | 0.00 n   |
| 13C-1,2,3,4,6,7,8-HpCDF | 194898500 | 0.43 y | 34:53 | 0.9201 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 131367000 | 1.01 y | 34:54 | 1.3481 | 50.00 n  |
| 1,2,3,4,7,8,9-HpCDF     | 108439900 | 1.02 y | 36:02 | 1.1128 | 50.00 n  |
| Total Hepta-Furans      | -         | - n    | -     | 1.2304 | 0.00 n   |
| 13C-1,2,3,4,6,7,8-HpCDD | 176478000 | 1.04 y | 35:43 | 0.8331 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDD     | 94723500  | 1.02 y | 35:43 | 1.0735 | 50.00 n  |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.0735 | 0.00 n   |
| 13C-OCDD                | 266609000 | 0.89 y | 38:16 | 0.6293 | 200.00 n |
| OCDF                    | 179957800 | 0.91 y | 38:23 | 1.3500 | 100.00 n |
| OCDD                    | 154054800 | 0.90 y | 38:16 | 1.1557 | 100.00 n |
| 37C1-2,3,7,8-TCDD       | 36762200  | 1.00 y | 20:14 | 1.3151 | 10.00 n  |
| 13C-2,3,4,7,8-PeCDF     | 262134000 | 1.54 y | 26:51 | 1.0219 | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 206662600 | 0.51 y | 32:17 | 0.7944 | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDD   | 181260500 | 1.32 y | 33:03 | 0.9330 | 100.00 n |

13C-1,2,3,4,7,8,9-HpCDF 164408600 0.43 y 36:02 0.8436 100.00 n



Run #5 Filename 21JL10A4D5 S: 8 I: 1  
 Acquired: 21-JUL-10 19:49:00 Processed: 22-JUL-10 11:47:12  
 Run: 15SE098D2 Analyte: 23 Cal: 230721104D5

## Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 363554000 | 0.80 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 402416000 | 0.79 y | 19:24 | 1.1069 | 100.00 | n    |
| 2,3,7,8-TCDF            | 166293900 | 0.77 y | 19:25 | 1.0331 | 40.00  | n    |
| Total Tetra-Furans      | -         | - n    | -     | 1.0331 | 0.00   | n    |
| 13C-2,3,7,8-TCDD        | 314971000 | 0.80 y | 20:13 | 0.8664 | 100.00 | n    |
| 2,3,7,8-TCDD            | 127934900 | 0.78 y | 20:15 | 1.0154 | 40.00  | n    |
| Total Tetra-Dioxins     | -         | - n    | -     | 1.0154 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDF     | 317818000 | 1.53 y | 25:17 | 0.8742 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 712080000 | 1.54 y | 25:19 | 1.1203 | 200.00 | n    |
| 2,3,4,7,8-PeCDF         | 692103000 | 1.53 y | 26:51 | 1.0888 | 200.00 | n    |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.1045 | 0.00   | n    |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.1045 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDD     | 237598000 | 1.55 y | 27:40 | 0.6535 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 458679000 | 1.50 y | 27:43 | 0.9652 | 200.00 | n    |
| Total Penta-Dioxins     | -         | - n    | -     | 0.9652 | 0.00   | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 248923000 | 1.30 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,6,7,8-HxCDF   | 287856500 | 0.52 y | 32:23 | 1.1564 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 658410000 | 1.16 y | 32:17 | 1.1436 | 200.00 | n    |
| 1,2,3,6,7,8-HxCDF       | 673142000 | 1.18 y | 32:24 | 1.1692 | 200.00 | n    |
| 2,3,4,6,7,8-HxCDF       | 645815000 | 1.17 y | 32:54 | 1.1218 | 200.00 | n    |
| 1,2,3,7,8,9-HxCDF       | 567208000 | 1.17 y | 33:33 | 0.9852 | 200.00 | n    |
| Total Hexa-Furans       | -         | - n    | -     | 1.1050 | 0.00   | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 197349200 | 1.31 y | 33:06 | 0.7928 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 458143000 | 1.26 y | 33:03 | 1.1607 | 200.00 | y ✓  |
| 1,2,3,6,7,8-HxCDD       | 484675000 | 1.28 y | 33:07 | 1.2280 | 200.00 | y ✓  |
| 1,2,3,7,8,9-HxCDD       | 488147000 | 1.26 y | 33:23 | 1.2368 | 200.00 | n    |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.2085 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214761200 | 0.43 y | 34:53 | 0.8628 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 593215000 | 1.01 y | 34:54 | 1.3811 | 200.00 | n    |
| 1,2,3,4,7,8,9-HpCDF     | 485366000 | 1.01 y | 36:03 | 1.1300 | 200.00 | n    |
| Total Hepta-Furans      | -         | - n    | -     | 1.2556 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 197451500 | 1.05 y | 35:42 | 0.7932 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 435214000 | 1.03 y | 35:43 | 1.1021 | 200.00 | n    |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.1021 | 0.00   | n    |
| 13C-OCDD                | 291770000 | 0.90 y | 38:16 | 0.5861 | 200.00 | n    |
| OCDF                    | 820312000 | 0.90 y | 38:23 | 1.4058 | 400.00 | n    |
| OCDD                    | 694943000 | 0.90 y | 38:16 | 1.1909 | 400.00 | n    |
| 37Cl-2,3,7,8-TCDD       | 166729600 | 1.00 y | 20:15 | 1.3234 | 40.00  | n    |
| 13C-2,3,4,7,8-PeCDF     | 324374000 | 1.54 y | 26:50 | 1.0206 | 100.00 | n    |

|                         |           |        |       |        |        |   |
|-------------------------|-----------|--------|-------|--------|--------|---|
| 13C-1,2,3,4,7,8-HxCDF   | 267009400 | 0.51 y | 32:16 | 0.9276 | 100.00 | n |
| 13C-1,2,3,4,7,8-HxCDD   | 227922100 | 1.29 y | 33:02 | 1.1549 | 100.00 | n |
| 13C-1,2,3,4,7,8,9-HpCDF | 181968100 | 0.44 y | 36:02 | 0.8473 | 100.00 | n |

Run #5    Filename 21JL10A4D5    S: 8    I: 1  
 Acquired: 21-JUL-10 19:49:00    Processed: 22-JUL-10 11:47:12  
 Run: 15SE098D2    Analyte: 23    Cal: 230721104D5

Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 363554000 | 0.80 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 402416000 | 0.79 y | 19:24 | 1.1069 | 100.00 | n    |
| 2,3,7,8-TCDF            | 166293900 | 0.77 y | 19:25 | 1.0331 | 40.00  | n    |
| Total Tetra-Furans      | -         | - n    | -     | 1.0331 | 0.00   | n    |
| 13C-2,3,7,8-TCDD        | 314971000 | 0.80 y | 20:13 | 0.8664 | 100.00 | n    |
| 2,3,7,8-TCDD            | 127934900 | 0.78 y | 20:15 | 1.0154 | 40.00  | n    |
| Total Tetra-Dioxins     | -         | - n    | -     | 1.0154 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDF     | 317818000 | 1.53 y | 25:17 | 0.8742 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 712080000 | 1.54 y | 25:19 | 1.1203 | 200.00 | n    |
| 2,3,4,7,8-PeCDF         | 692103000 | 1.53 y | 26:51 | 1.0888 | 200.00 | n    |
| Total F2 Penta-Furans   | -         | - n    | -     | 1.1045 | 0.00   | n    |
| Total F1 Penta-Furans   | -         | - n    | -     | 1.1045 | 0.00   | n    |
| 13C-1,2,3,7,8-PeCDD     | 237598000 | 1.55 y | 27:40 | 0.6535 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 458679000 | 1.50 y | 27:43 | 0.9652 | 200.00 | n    |
| Total Penta-Dioxins     | -         | - n    | -     | 0.9652 | 0.00   | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 248923000 | 1.30 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,6,7,8-HxCDF   | 287856500 | 0.52 y | 32:23 | 1.1564 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 658410000 | 1.16 y | 32:17 | 1.1436 | 200.00 | n    |
| 1,2,3,6,7,8-HxCDF       | 673142000 | 1.18 y | 32:24 | 1.1692 | 200.00 | n    |
| 2,3,4,6,7,8-HxCDF       | 645815000 | 1.17 y | 32:54 | 1.1218 | 200.00 | n    |
| 1,2,3,7,8,9-HxCDF       | 567208000 | 1.17 y | 33:33 | 0.9852 | 200.00 | n    |
| Total Hexa-Furans       | -         | - n    | -     | 1.1050 | 0.00   | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 197349200 | 1.31 y | 33:06 | 0.7928 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 422231040 | 1.45 n | 33:03 | 1.0698 | 200.00 | n    |
| 1,2,3,6,7,8-HxCDD       | 481044000 | 1.12 y | 33:07 | 1.2188 | 200.00 | n    |
| 1,2,3,7,8,9-HxCDD       | 488146000 | 1.26 y | 33:23 | 1.2368 | 200.00 | n    |
| Total Hexa-Dioxins      | -         | - n    | -     | 1.1751 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214761200 | 0.43 y | 34:53 | 0.8628 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 593215000 | 1.01 y | 34:54 | 1.3811 | 200.00 | n    |
| 1,2,3,4,7,8,9-HpCDF     | 485366000 | 1.01 y | 36:03 | 1.1300 | 200.00 | n    |
| Total Hepta-Furans      | -         | - n    | -     | 1.2556 | 0.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 197451500 | 1.05 y | 35:42 | 0.7932 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 435214000 | 1.03 y | 35:43 | 1.1021 | 200.00 | n    |
| Total Hepta-Dioxins     | -         | - n    | -     | 1.1021 | 0.00   | n    |
| 13C-OCDD                | 291770000 | 0.90 y | 38:16 | 0.5861 | 200.00 | n    |
| OCDF                    | 820312000 | 0.90 y | 38:23 | 1.4058 | 400.00 | n    |
| OCDD                    | 694943000 | 0.90 y | 38:16 | 1.1909 | 400.00 | n    |
| 37Cl-2,3,7,8-TCDD       | 166729600 | 1.00 y | 20:15 | 1.3234 | 40.00  | n    |
| 13C-2,3,4,7,8-PeCDF     | 324374000 | 1.54 y | 26:50 | 1.0206 | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 267009400 | 0.51 y | 32:16 | 0.9276 | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDD   | 227922100 | 1.29 y | 33:02 | 1.1549 | 100.00 | n    |

13C-1,2,3,4,7,8,9-HpCDF 181968100 0.44 y 36:02 0.8473 100.00 n

Run #4 Filename 21JL10A4D5 S: 7 I: 1  
 Acquired: 21-JUL-10 19:03:58 Processed: 22-JUL-10 11:47:12  
 Run: 15SE098D2 Analyte: 23 Cal: 230721104D5

## Comments:

Sample text: ST0721D :CS-5 10DXN339

| Name                    | Resp       | RA     | RT    | RRF    |         | Mod? |
|-------------------------|------------|--------|-------|--------|---------|------|
| 13C-1,2,3,4-TCDD        | 350659000  | 0.80 y | 20:02 | -      | 100.00  | n    |
| 13C-2,3,7,8-TCDF        | 360772000  | 0.79 y | 19:24 | 1.0288 | 100.00  | n    |
| 2,3,7,8-TCDF            | 697458000  | 0.77 y | 19:25 | 0.9666 | 200.00  | n    |
| Total Tetra-Furans      | -          | - n    | -     | 0.9666 | 0.00    | n    |
| 13C-2,3,7,8-TCDD        | 309835000  | 0.78 y | 20:14 | 0.8836 | 100.00  | n    |
| 2,3,7,8-TCDD            | 626791000  | 0.79 y | 20:16 | 1.0115 | 200.00  | n    |
| Total Tetra-Dioxins     | -          | - n    | -     | 1.0115 | 0.00    | n    |
| 13C-1,2,3,7,8-PeCDF     | 310980000  | 1.54 y | 25:18 | 0.8868 | 100.00  | n    |
| 1,2,3,7,8-PeCDF         | 3461250000 | 1.54 y | 25:20 | 1.1130 | 1000.00 | n    |
| 2,3,4,7,8-PeCDF         | 3239400000 | 1.52 y | 26:52 | 1.0417 | 1000.00 | n    |
| Total F2 Penta-Furans   | -          | - n    | -     | 1.0773 | 0.00    | n    |
| Total F1 Penta-Furans   | -          | - n    | -     | 1.0773 | 0.00    | n    |
| 13C-1,2,3,7,8-PeCDD     | 235100700  | 1.56 y | 27:42 | 0.6705 | 100.00  | n    |
| 1,2,3,7,8-PeCDD         | 2235314000 | 1.50 y | 27:44 | 0.9508 | 1000.00 | n    |
| Total Penta-Dioxins     | -          | - n    | -     | 0.9508 | 0.00    | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 256316000  | 1.29 y | 33:22 | -      | 100.00  | n    |
| 13C-1,2,3,6,7,8-HxCDF   | 298409000  | 0.52 y | 32:23 | 1.1642 | 100.00  | n    |
| 1,2,3,4,7,8-HxCDF       | 3131920000 | 1.15 y | 32:17 | 1.0495 | 1000.00 | n    |
| 1,2,3,6,7,8-HxCDF       | 3410730000 | 1.19 y | 32:24 | 1.1430 | 1000.00 | n    |
| 2,3,4,6,7,8-HxCDF       | 3245730000 | 1.18 y | 32:55 | 1.0877 | 1000.00 | n    |
| 1,2,3,7,8,9-HxCDF       | 2825950000 | 1.18 y | 33:33 | 0.9470 | 1000.00 | n    |
| Total Hexa-Furans       | -          | - n    | -     | 1.0568 | 0.00    | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 198188400  | 1.30 y | 33:07 | 0.7732 | 100.00  | n    |
| 1,2,3,4,7,8-HxCDD       | 2319900000 | 1.23 y | 33:03 | 1.1706 | 1000.00 | n    |
| 1,2,3,6,7,8-HxCDD       | 2219442000 | 1.26 y | 33:07 | 1.1199 | 1000.00 | n    |
| 1,2,3,7,8,9-HxCDD       | 2474590000 | 1.26 y | 33:23 | 1.2486 | 1000.00 | n    |
| Total Hexa-Dioxins      | -          | - n    | -     | 1.1797 | 0.00    | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 222373600  | 0.44 y | 34:54 | 0.8676 | 100.00  | n    |
| 1,2,3,4,6,7,8-HpCDF     | 3008480000 | 1.01 y | 34:54 | 1.3529 | 1000.00 | n    |
| 1,2,3,4,7,8,9-HpCDF     | 2503650000 | 1.02 y | 36:03 | 1.1259 | 1000.00 | n    |
| Total Hepta-Furans      | -          | - n    | -     | 1.2394 | 0.00    | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 196025300  | 1.04 y | 35:42 | 0.7648 | 100.00  | n    |
| 1,2,3,4,6,7,8-HpCDD     | 2131190000 | 1.02 y | 35:43 | 1.0872 | 1000.00 | n    |
| Total Hepta-Dioxins     | -          | - n    | -     | 1.0872 | 0.00    | n    |
| 13C-OCDD                | 305368000  | 0.90 y | 38:16 | 0.5957 | 200.00  | n    |
| OCDF                    | 4252770000 | 0.90 y | 38:23 | 1.3927 | 2000.00 | n    |
| OCDD                    | 3562830000 | 0.90 y | 38:16 | 1.1667 | 2000.00 | n    |
| 37Cl-2,3,7,8-TCDD       | 837356000  | 1.00 y | 20:15 | 1.3513 | 200.00  | n    |
| 13C-2,3,4,7,8-PeCDF     | 297653000  | 1.53 y | 26:50 | 0.9571 | 100.00  | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 256243600  | 0.51 y | 32:16 | 0.8587 | 100.00  | n    |
| 13C-1,2,3,4,7,8-HxCDD   | 218307200  | 1.31 y | 33:02 | 1.1015 | 100.00  | n    |

13C-1,2,3,4,7,8,9-HpCDF 186494800 0.44 y 36:02 0.8387 100.00 n

Run: 1558098D2 Analyte: T09 Cal: T090721104D5

ST0721A :CS-1 10DXN342 ST0721B :CS-2 10DXN334 ST0721C :CS-3 10DXN336  
 ST0721D :CS-5 10DXN339 ST0721E :CS-4 10DXN337

21JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D521JL10A4D5

| Name                  | Mean  | S. D. | %RSD   | RRF1 | RRF2 | RRF3 | RRF4 | RRF5 |
|-----------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,4-TCDD      | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-2,3,7,8-TCDF      | 1.229 | 0.154 | 12.5 % | 1.30 | 1.31 | 1.39 | 1.03 | 1.11 |
| 2,3,7,8-TCDF          | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 0.97 | 1.03 |
| Total TCDF            | 0.995 | 0.037 | 3.68 % | 1.03 | 0.96 | 0.98 | 0.97 | 1.03 |
| 13C-2,3,7,8-TCDD      | 0.905 | 0.029 | 3.25 % | 0.92 | 0.92 | 0.94 | 0.88 | 0.87 |
| 2,3,7,8-TCDD          | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.01 | 1.02 |
| Total TCDD            | 0.983 | 0.032 | 3.24 % | 0.98 | 0.94 | 0.97 | 1.01 | 1.02 |
| 37Cl-2,3,7,8-TCDD     | 1.326 | 0.015 | 1.12 % | 1.33 | 1.31 | 1.32 | 1.35 | 1.32 |
| 13C-1,2,3,7,8-RecDF   | 0.876 | 0.018 | 2.08 % | 0.86 | 0.90 | 0.86 | 0.89 | 0.87 |
| 1,2,3,7,8-RecDF       | 1.077 | 0.042 | 3.92 % | 1.03 | 1.04 | 1.08 | 1.11 | 1.12 |
| 2,3,4,7,8-RecDF       | 1.046 | 0.040 | 3.80 % | 1.00 | 1.02 | 1.08 | 1.04 | 1.09 |
| Total F2 RecDF        | 1.061 | 0.039 | 3.67 % | 1.01 | 1.03 | 1.08 | 1.08 | 1.10 |
| Total F1 RecDF        | 1.061 | 0.039 | 3.67 % | 1.01 | 1.03 | 1.08 | 1.08 | 1.10 |
| 13C-1,2,3,7,8-RecDD   | 0.661 | 0.010 | 1.45 % | 0.65 | 0.66 | 0.67 | 0.67 | 0.65 |
| 1,2,3,7,8-RecDD       | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.95 | 0.97 |
| Total RecDD           | 0.925 | 0.038 | 4.09 % | 0.89 | 0.88 | 0.94 | 0.95 | 0.97 |
| 13C-1,2,3,7,8,9-HxCDD | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-1,2,3,4,7,8-HxCDF | 1.045 | 0.067 | 6.44 % | 1.03 | 1.15 | 0.98 | 1.00 | 1.07 |
| 1,2,3,4,7,8-HxCDF     | 1.217 | 0.012 | 1.02 % | 1.21 | 1.20 | 1.22 | 1.22 | 1.23 |
| 1,2,3,6,7,8-HxCDF     | 1.282 | 0.089 | 6.95 % | 1.19 | 1.22 | 1.41 | 1.33 | 1.26 |
| 2,3,4,6,7,8-HxCDF     | 1.233 | 0.080 | 6.49 % | 1.19 | 1.15 | 1.35 | 1.27 | 1.21 |
| 1,2,3,7,8,9-HxCDF     | 1.098 | 0.096 | 8.73 % | 1.08 | 0.99 | 1.25 | 1.10 | 1.06 |
| Total HxCDF           | 1.208 | 0.066 | 5.43 % | 1.17 | 1.14 | 1.31 | 1.23 | 1.19 |
| 13C-1,2,3,6,7,8-HxCDD | 0.831 | 0.055 | 6.68 % | 0.84 | 0.83 | 0.92 | 0.77 | 0.79 |
| 1,2,3,4,7,8-HxCDD     | 1.037 | 0.122 | 11.8 % | 0.90 | 0.99 | 0.97 | 1.17 | 1.16 |

|                     |       |       |        |      |      |      |      |      |      |
|---------------------|-------|-------|--------|------|------|------|------|------|------|
| 1,2,3,6,7,8-HxCDD   | 1.163 | 0.060 | 5.18 % | 1.14 | 1.23 | 1.10 | 1.12 | 1.12 | 1.23 |
| 1,2,3,7,8,9-HxCDD   | 1.182 | 0.057 | 4.86 % | 1.15 | 1.16 | 1.12 | 1.25 | 1.24 |      |
| Total HxCDD         | 1.127 | 0.067 | 5.93 % | 1.06 | 1.12 | 1.06 | 1.18 | 1.21 |      |
| 1,2,3,4,6,7,8-HpCDF | 0.910 | 0.051 | 5.65 % | 0.99 | 0.91 | 0.92 | 0.87 | 0.86 |      |
| 1,2,3,4,6,7,8-HpCDF | 1.346 | 0.027 | 1.99 % | 1.31 | 1.34 | 1.35 | 1.35 | 1.38 |      |
| 1,2,3,4,7,8,9-HpCDF | 1.093 | 0.049 | 4.49 % | 1.01 | 1.09 | 1.11 | 1.13 | 1.13 |      |
| Total HpCDF         | 1.220 | 0.037 | 3.05 % | 1.16 | 1.21 | 1.23 | 1.24 | 1.26 |      |
| 1,2,3,4,6,7,8-HpCDD | 0.827 | 0.049 | 5.98 % | 0.89 | 0.85 | 0.83 | 0.76 | 0.79 |      |
| 1,2,3,4,6,7,8-HpCDD | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.09 | 1.10 |      |
| Total HpCDD         | 1.072 | 0.028 | 2.61 % | 1.07 | 1.03 | 1.07 | 1.09 | 1.10 |      |
| 1,2,3,4,6,7,8-HxCDD | 0.620 | 0.029 | 4.60 % | 0.66 | 0.63 | 0.63 | 0.60 | 0.59 |      |
| 1,2,3,4,6,7,8-HxCDD | 1.370 | 0.027 | 1.98 % | 1.36 | 1.35 | 1.35 | 1.39 | 1.41 |      |
| Total HxCDD         | 1.199 | 0.066 | 5.48 % | 1.31 | 1.17 | 1.16 | 1.17 | 1.19 |      |



Run #1 Filename 21JL10A4D5 S: 4 I: 1  
Acquired: 21-JUL-10 16:48:00 Processed: 22-JUL-10 12:01:10  
Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name                    | Resp      | RA     | RT    | RRF    | Mod?       |
|-------------------------|-----------|--------|-------|--------|------------|
| 13C-1,2,3,4-TCDD        | 311991000 | 0.79 y | 20:01 | -      | 100.00 n   |
| 13C-2,3,7,8-TCDF        | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 n   |
| 2,3,7,8-TCDF            | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50 n     |
| Total TCDF              | -         | - n    | -     | 1.0327 | 0.50 n     |
| 13C-2,3,7,8-TCDD        | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 n   |
| 2,3,7,8-TCDD            | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50 n     |
| Total TCDD              | -         | - n    | -     | 0.9839 | 0.50 n     |
| 37Cl-2,3,7,8-TCDD       | 1900202   | 1.00 y | 20:14 | 1.3256 | 0.50 n     |
| 13C-1,2,3,7,8-PeCDF     | 267161000 | 1.54 y | 25:17 | 0.8563 | 100.00 n   |
| 1,2,3,7,8-PeCDF         | 6866350   | 1.58 y | 25:19 | 1.0280 | 2.50 n     |
| 2,3,4,7,8-PeCDF         | 6654750   | 1.57 y | 26:51 | 0.9964 | 2.50 n     |
| Total F2 PeCDF          | -         | - n    | -     | 1.0122 | 5.00 n     |
| Total F1 PeCDF          | -         | - n    | -     | 1.0122 | 5.00 n     |
| 13C-1,2,3,7,8-PeCDD     | 202489300 | 1.56 y | 27:41 | 0.6490 | 100.00 n   |
| 1,2,3,7,8-PeCDD         | 4490250   | 1.47 y | 27:43 | 0.8870 | 2.50 n     |
| Total PeCDD             | -         | - n    | -     | 0.8870 | 2.50 n     |
| 13C-1,2,3,7,8,9-HxCDD   | 216693700 | 1.31 y | 33:22 | -      | 100.00 n   |
| 13C-1,2,3,4,7,8-HxCDF   | 223118900 | 0.51 y | 32:16 | 1.0297 | 100.00 n   |
| 1,2,3,4,7,8-HxCDF       | 6768610   | 1.17 y | 32:17 | 1.2135 | 2.50 n     |
| 1,2,3,6,7,8-HxCDF       | 6624500   | 1.24 y | 32:24 | 1.1876 | 2.50 n     |
| 2,3,4,6,7,8-HxCDF       | 6618550   | 1.19 y | 32:54 | 1.1866 | 2.50 n     |
| 1,2,3,7,8,9-HxCDF       | 6028420   | 1.13 y | 33:32 | 1.0808 | 2.50 n     |
| Total HxCDF             | -         | - n    | -     | 1.1671 | 10.00 n    |
| 13C-1,2,3,6,7,8-HxCDD   | 182168900 | 1.32 y | 33:06 | 0.8407 | 100.00 y ✓ |
| 1,2,3,4,7,8-HxCDD       | 4087150   | 1.18 y | 33:03 | 0.8974 | 2.50 n     |
| 1,2,3,6,7,8-HxCDD       | 5184140   | 1.31 y | 33:07 | 1.1383 | 2.50 n     |
| 1,2,3,7,8,9-HxCDD       | 5222820   | 1.27 y | 33:22 | 1.1468 | 2.50 n     |
| Total HxCDD             | -         | - n    | -     | 1.0609 | 7.50 n     |
| 13C-1,2,3,4,6,7,8-HpCDF | 214578400 | 0.43 y | 34:53 | 0.9902 | 100.00 n   |
| 1,2,3,4,6,7,8-HpCDF     | 7009400   | 1.06 y | 34:54 | 1.3066 | 2.50 n     |
| 1,2,3,4,7,8,9-HpCDF     | 5421290   | 1.00 y | 36:03 | 1.0106 | 2.50 n     |
| Total HpCDF             | -         | - n    | -     | 1.1586 | 5.00 n     |
| 13C-1,2,3,4,6,7,8-HpCDD | 193217400 | 1.03 y | 35:42 | 0.8917 | 100.00 n   |
| 1,2,3,4,6,7,8-HpCDD     | 5159640   | 1.03 y | 35:43 | 1.0682 | 2.50 n     |
| Total HpCDD             | -         | - n    | -     | 1.0682 | 2.50 n     |
| 13C-OCDD                | 284075000 | 0.88 y | 38:16 | 0.6555 | 200.00 n   |
| OCDF                    | 9640820   | 0.93 y | 38:23 | 1.3575 | 5.00 n     |

OCDD 9336890 0.91 y 38:16 1.3147 5.00 n

Run #1 Filename 21JL10A4D5 S: 4 I: 1  
 Acquired: 21-JUL-10 16:48:00 Processed: 22-JUL-10 12:01:10  
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

Sample text: ST0721A :CS-1 10DXN342

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 311991000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 406871000 | 0.79 y | 19:24 | 1.3041 | 100.00 | n    |
| 2,3,7,8-TCDF            | 2100786   | 0.70 y | 19:25 | 1.0327 | 0.50   | n    |
| Total TCDF              | -         | - n    | -     | 1.0327 | 0.50   | n    |
| 13C-2,3,7,8-TCDD        | 286692000 | 0.78 y | 20:13 | 0.9189 | 100.00 | n    |
| 2,3,7,8-TCDD            | 1410323   | 0.86 y | 20:14 | 0.9839 | 0.50   | n    |
| Total TCDD              | -         | - n    | -     | 0.9839 | 0.50   | n    |
| 37Cl-2,3,7,8-TCDD       | 1900202   | 1.00 y | 20:14 | 1.3256 | 0.50   | n    |
| 13C-1,2,3,7,8-PeCDF     | 267161000 | 1.54 y | 25:17 | 0.8563 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 6866350   | 1.58 y | 25:19 | 1.0280 | 2.50   | n    |
| 2,3,4,7,8-PeCDF         | 6654750   | 1.57 y | 26:51 | 0.9964 | 2.50   | n    |
| Total F2 PeCDF          | -         | - n    | -     | 1.0122 | 5.00   | n    |
| Total F1 PeCDF          | -         | - n    | -     | 1.0122 | 5.00   | n    |
| 13C-1,2,3,7,8-PeCDD     | 202489300 | 1.56 y | 27:41 | 0.6490 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 4490250   | 1.47 y | 27:43 | 0.8870 | 2.50   | n    |
| Total PeCDD             | -         | - n    | -     | 0.8870 | 2.50   | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 216693700 | 1.31 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 223118900 | 0.51 y | 32:16 | 1.0297 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 6768610   | 1.17 y | 32:17 | 1.2135 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDF       | 6624500   | 1.24 y | 32:24 | 1.1876 | 2.50   | n    |
| 2,3,4,6,7,8-HxCDF       | 6618550   | 1.19 y | 32:54 | 1.1866 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDF       | 6028420   | 1.13 y | 33:32 | 1.0808 | 2.50   | n    |
| Total HxCDF             | -         | - n    | -     | 1.1671 | 10.00  | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 183007300 | 1.15 y | 33:06 | 0.8445 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 4087150   | 1.18 y | 33:03 | 0.8933 | 2.50   | n    |
| 1,2,3,6,7,8-HxCDD       | 5184140   | 1.31 y | 33:07 | 1.1331 | 2.50   | n    |
| 1,2,3,7,8,9-HxCDD       | 5222820   | 1.27 y | 33:22 | 1.1416 | 2.50   | n    |
| Total HxCDD             | -         | - n    | -     | 1.0560 | 7.50   | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214578400 | 0.43 y | 34:53 | 0.9902 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 7009400   | 1.06 y | 34:54 | 1.3066 | 2.50   | n    |
| 1,2,3,4,7,8,9-HpCDF     | 5421290   | 1.00 y | 36:03 | 1.0106 | 2.50   | n    |
| Total HpCDF             | -         | - n    | -     | 1.1586 | 5.00   | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 193217400 | 1.03 y | 35:42 | 0.8917 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 5159640   | 1.03 y | 35:43 | 1.0682 | 2.50   | n    |
| Total HpCDD             | -         | - n    | -     | 1.0682 | 2.50   | n    |
| 13C-OCDD                | 284075000 | 0.88 y | 38:16 | 0.6555 | 200.00 | n    |
| OCDF                    | 9640820   | 0.93 y | 38:23 | 1.3575 | 5.00   | n    |

OCDD 9336890 0.91 γ 38:16 1.3147 5.00 n

Run #2 Filename 21JL10A4D5 S: 5 I: 1  
 Acquired: 21-JUL-10 17:33:53 Processed: 22-JUL-10 12:01:11  
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

Sample text: ST0721B :CS-2 10DXN334

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 346133000 | 0.79 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 454963000 | 0.79 y | 19:25 | 1.3144 | 100.00 | n    |
| 2,3,7,8-TCDF            | 8692490   | 0.78 y | 19:26 | 0.9553 | 2.00   | n    |
| Total TCDF              | -         | - n    | -     | 0.9553 | 2.00   | n    |
| 13C-2,3,7,8-TCDD        | 317456000 | 0.78 y | 20:14 | 0.9172 | 100.00 | n    |
| 2,3,7,8-TCDD            | 5958260   | 0.78 y | 20:15 | 0.9384 | 2.00   | n    |
| Total TCDD              | -         | - n    | -     | 0.9384 | 2.00   | n    |
| 37Cl-2,3,7,8-TCDD       | 8349040   | 1.00 y | 20:15 | 1.3150 | 2.00   | n    |
| 13C-1,2,3,7,8-PeCDF     | 311858000 | 1.53 y | 25:17 | 0.9010 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 32375300  | 1.57 y | 25:19 | 1.0381 | 10.00  | n    |
| 2,3,4,7,8-PeCDF         | 31788800  | 1.54 y | 26:52 | 1.0193 | 10.00  | n    |
| Total F2 PeCDF          | -         | - n    | -     | 1.0287 | 20.00  | n    |
| Total F1 PeCDF          | -         | - n    | -     | 1.0287 | 20.00  | n    |
| 13C-1,2,3,7,8-PeCDD     | 228833100 | 1.55 y | 27:41 | 0.6611 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 20211030  | 1.54 y | 27:42 | 0.8832 | 10.00  | n    |
| Total PeCDD             | -         | - n    | -     | 0.8832 | 10.00  | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 250231000 | 1.31 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 286839800 | 0.51 y | 32:16 | 1.1463 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 34391700  | 1.17 y | 32:17 | 1.1990 | 10.00  | n    |
| 1,2,3,6,7,8-HxCDF       | 34994300  | 1.19 y | 32:24 | 1.2200 | 10.00  | n    |
| 2,3,4,6,7,8-HxCDF       | 32979800  | 1.17 y | 32:55 | 1.1498 | 10.00  | n    |
| 1,2,3,7,8,9-HxCDF       | 28460200  | 1.20 y | 33:33 | 0.9922 | 10.00  | n    |
| Total HxCDF             | -         | - n    | -     | 1.1402 | 40.00  | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 207728500 | 1.31 y | 33:06 | 0.8301 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 20528920  | 1.23 y | 33:03 | 0.9883 | 10.00  | n    |
| 1,2,3,6,7,8-HxCDD       | 25476800  | 1.29 y | 33:07 | 1.2264 | 10.00  | n    |
| 1,2,3,7,8,9-HxCDD       | 24026200  | 1.28 y | 33:23 | 1.1566 | 10.00  | n    |
| Total HxCDD             | -         | - n    | -     | 1.1238 | 30.00  | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 227576800 | 0.43 y | 34:53 | 0.9095 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 30499500  | 1.03 y | 34:54 | 1.3402 | 10.00  | n    |
| 1,2,3,4,7,8,9-HpCDF     | 24758800  | 1.01 y | 36:03 | 1.0879 | 10.00  | n    |
| Total HpCDF             | -         | - n    | -     | 1.2141 | 20.00  | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 212760000 | 1.04 y | 35:42 | 0.8503 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 21862400  | 1.02 y | 35:43 | 1.0276 | 10.00  | n    |
| Total HpCDD             | -         | - n    | -     | 1.0276 | 10.00  | n    |
| 13C-OCDD                | 316775000 | 0.88 y | 38:16 | 0.6330 | 200.00 | n    |
| OCDF                    | 42624800  | 0.89 y | 38:23 | 1.3456 | 20.00  | n    |
| OCDD                    | 37017600  | 0.89 y | 38:17 | 1.1686 | 20.00  | n    |

Run #3 Filename 21JL10A4D5 S: 6 I: 1  
 Acquired: 21-JUL-10 18:18:56 Processed: 22-JUL-10 12:01:11  
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5  
 Comments:

Sample text: ST0721C :CS-3 10DXN336

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 297616000 | 0.80 y | 20:00 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 414416000 | 0.80 y | 19:23 | 1.3925 | 100.00 | n    |
| 2,3,7,8-TCDF            | 40815800  | 0.78 y | 19:25 | 0.9849 | 10.00  | n    |
| Total TCDF              | -         | - n    | -     | 0.9849 | 10.00  | n    |
| 13C-2,3,7,8-TCDD        | 279542000 | 0.79 y | 20:13 | 0.9393 | 100.00 | n    |
| 2,3,7,8-TCDD            | 27062400  | 0.80 y | 20:15 | 0.9681 | 10.00  | n    |
| Total TCDD              | -         | - n    | -     | 0.9681 | 10.00  | n    |
| 37Cl-2,3,7,8-TCDD       | 36762200  | 1.00 y | 20:14 | 1.3151 | 10.00  | n    |
| 13C-1,2,3,7,8-PeCDF     | 256521000 | 1.55 y | 25:18 | 0.8619 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 138997400 | 1.55 y | 25:20 | 1.0837 | 50.00  | n    |
| 2,3,4,7,8-PeCDF         | 138743000 | 1.55 y | 26:53 | 1.0817 | 50.00  | n    |
| Total F2 PeCDF          | -         | - n    | -     | 1.0827 | 100.00 | n    |
| Total F1 PeCDF          | -         | - n    | -     | 1.0827 | 100.00 | n    |
| 13C-1,2,3,7,8-PeCDD     | 199400100 | 1.58 y | 27:43 | 0.6700 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 93821800  | 1.53 y | 27:44 | 0.9410 | 50.00  | n    |
| Total PeCDD             | -         | - n    | -     | 0.9410 | 50.00  | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 211830200 | 1.30 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 206662600 | 0.51 y | 32:17 | 0.9756 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 125916200 | 1.16 y | 32:18 | 1.2186 | 50.00  | n    |
| 1,2,3,6,7,8-HxCDF       | 145591100 | 1.17 y | 32:23 | 1.4090 | 50.00  | n    |
| 2,3,4,6,7,8-HxCDF       | 139989400 | 1.18 y | 32:55 | 1.3548 | 50.00  | n    |
| 1,2,3,7,8,9-HxCDF       | 129462400 | 1.18 y | 33:33 | 1.2529 | 50.00  | n    |
| Total HxCDF             | -         | - n    | -     | 1.3088 | 200.00 | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 194269900 | 1.31 y | 33:07 | 0.9171 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 94117900  | 1.23 y | 33:03 | 0.9689 | 50.00  | n    |
| 1,2,3,6,7,8-HxCDD       | 106981800 | 1.27 y | 33:08 | 1.1014 | 50.00  | n    |
| 1,2,3,7,8,9-HxCDD       | 108772200 | 1.25 y | 33:23 | 1.1198 | 50.00  | n    |
| Total HxCDD             | -         | - n    | -     | 1.0634 | 150.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 194898500 | 0.43 y | 34:53 | 0.9201 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 131367000 | 1.01 y | 34:54 | 1.3481 | 50.00  | n    |
| 1,2,3,4,7,8,9-HpCDF     | 108439900 | 1.02 y | 36:02 | 1.1128 | 50.00  | n    |
| Total HpCDF             | -         | - n    | -     | 1.2304 | 100.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 176478000 | 1.04 y | 35:43 | 0.8331 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 94723500  | 1.02 y | 35:43 | 1.0735 | 50.00  | n    |
| Total HpCDD             | -         | - n    | -     | 1.0735 | 50.00  | n    |
| 13C-OCDD                | 266609000 | 0.89 y | 38:16 | 0.6293 | 200.00 | n    |
| OCDF                    | 179957800 | 0.91 y | 38:23 | 1.3500 | 100.00 | n    |
| OCDD                    | 154054800 | 0.90 y | 38:16 | 1.1557 | 100.00 | n    |

Run #5 Filename 21JL10A4D5 S: 8 I: 1  
 Acquired: 21-JUL-10 19:49:00 Processed: 22-JUL-10 12:01:13  
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5  
 Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name                    | Resp      | RA     | RT    | RRF    |        | Mod? |
|-------------------------|-----------|--------|-------|--------|--------|------|
| 13C-1,2,3,4-TCDD        | 363554000 | 0.80 y | 20:01 | -      | 100.00 | n    |
| 13C-2,3,7,8-TCDF        | 402416000 | 0.79 y | 19:24 | 1.1069 | 100.00 | n    |
| 2,3,7,8-TCDF            | 166293900 | 0.77 y | 19:25 | 1.0331 | 40.00  | n    |
| Total TCDF              | -         | - n    | -     | 1.0331 | 40.00  | n    |
| 13C-2,3,7,8-TCDD        | 314971000 | 0.80 y | 20:13 | 0.8664 | 100.00 | n    |
| 2,3,7,8-TCDD            | 127934900 | 0.78 y | 20:15 | 1.0154 | 40.00  | n    |
| Total TCDD              | -         | - n    | -     | 1.0154 | 40.00  | n    |
| 37Cl-2,3,7,8-TCDD       | 166729600 | 1.00 y | 20:15 | 1.3234 | 40.00  | n    |
| 13C-1,2,3,7,8-PeCDF     | 317818000 | 1.53 y | 25:17 | 0.8742 | 100.00 | n    |
| 1,2,3,7,8-PeCDF         | 712080000 | 1.54 y | 25:19 | 1.1203 | 200.00 | n    |
| 2,3,4,7,8-PeCDF         | 692103000 | 1.53 y | 26:51 | 1.0888 | 200.00 | n    |
| Total F2 PeCDF          | -         | - n    | -     | 1.1045 | 400.00 | n    |
| Total F1 PeCDF          | -         | - n    | -     | 1.1045 | 400.00 | n    |
| 13C-1,2,3,7,8-PeCDD     | 237598000 | 1.55 y | 27:40 | 0.6535 | 100.00 | n    |
| 1,2,3,7,8-PeCDD         | 458679000 | 1.50 y | 27:43 | 0.9652 | 200.00 | n    |
| Total PeCDD             | -         | - n    | -     | 0.9652 | 200.00 | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 248923000 | 1.30 y | 33:22 | -      | 100.00 | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 267009400 | 0.51 y | 32:16 | 1.0727 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDF       | 658410000 | 1.16 y | 32:17 | 1.2329 | 200.00 | n    |
| 1,2,3,6,7,8-HxCDF       | 673142000 | 1.18 y | 32:24 | 1.2605 | 200.00 | n    |
| 2,3,4,6,7,8-HxCDF       | 645815000 | 1.17 y | 32:54 | 1.2093 | 200.00 | n    |
| 1,2,3,7,8,9-HxCDF       | 567208000 | 1.17 y | 33:33 | 1.0621 | 200.00 | n    |
| Total HxCDF             | -         | - n    | -     | 1.1912 | 800.00 | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 197349200 | 1.31 y | 33:06 | 0.7928 | 100.00 | n    |
| 1,2,3,4,7,8-HxCDD       | 458143000 | 1.26 y | 33:03 | 1.1607 | 200.00 | Y ✓  |
| 1,2,3,6,7,8-HxCDD       | 484675000 | 1.28 y | 33:07 | 1.2280 | 200.00 | Y ✓  |
| 1,2,3,7,8,9-HxCDD       | 488147000 | 1.26 y | 33:23 | 1.2368 | 200.00 | n    |
| Total HxCDD             | -         | - n    | -     | 1.2085 | 600.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 214761200 | 0.43 y | 34:53 | 0.8628 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDF     | 593215000 | 1.01 y | 34:54 | 1.3811 | 200.00 | n    |
| 1,2,3,4,7,8,9-HpCDF     | 485366000 | 1.01 y | 36:03 | 1.1300 | 200.00 | n    |
| Total HpCDF             | -         | - n    | -     | 1.2556 | 400.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 197451500 | 1.05 y | 35:42 | 0.7932 | 100.00 | n    |
| 1,2,3,4,6,7,8-HpCDD     | 435214000 | 1.03 y | 35:43 | 1.1021 | 200.00 | n    |
| Total HpCDD             | -         | - n    | -     | 1.1021 | 200.00 | n    |
| 13C-OCDD                | 291770000 | 0.90 y | 38:16 | 0.5861 | 200.00 | n    |
| OCDF                    | 820312000 | 0.90 y | 38:23 | 1.4058 | 400.00 | n    |

OCDD 694943000 0.90 y 38:16 1.1909 400.00 n



Run #5 Filename 21JL10A4D5 S: 8 I: 1  
 Acquired: 21-JUL-10 19:49:00 Processed: 22-JUL-10 12:01:13  
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

Comments:

Sample text: ST0721E :CS-4 10DXN337

| Name                    | Resp      | RA     | RT    | RRF    | Mod?     |
|-------------------------|-----------|--------|-------|--------|----------|
| 13C-1,2,3,4-TCDD        | 363554000 | 0.80 y | 20:01 | -      | 100.00 n |
| 13C-2,3,7,8-TCDF        | 402416000 | 0.79 y | 19:24 | 1.1069 | 100.00 n |
| 2,3,7,8-TCDF            | 166293900 | 0.77 y | 19:25 | 1.0331 | 40.00 n  |
| Total TCDF              | -         | - n    | -     | 1.0331 | 40.00 n  |
| 13C-2,3,7,8-TCDD        | 314971000 | 0.80 y | 20:13 | 0.8664 | 100.00 n |
| 2,3,7,8-TCDD            | 127934900 | 0.78 y | 20:15 | 1.0154 | 40.00 n  |
| Total TCDD              | -         | - n    | -     | 1.0154 | 40.00 n  |
| 37Cl-2,3,7,8-TCDD       | 166729600 | 1.00 y | 20:15 | 1.3234 | 40.00 n  |
| 13C-1,2,3,7,8-PeCDF     | 317818000 | 1.53 y | 25:17 | 0.8742 | 100.00 n |
| 1,2,3,7,8-PeCDF         | 712080000 | 1.54 y | 25:19 | 1.1203 | 200.00 n |
| 2,3,4,7,8-PeCDF         | 692103000 | 1.53 y | 26:51 | 1.0888 | 200.00 n |
| Total F2 PeCDF          | -         | - n    | -     | 1.1045 | 400.00 n |
| Total F1 PeCDF          | -         | - n    | -     | 1.1045 | 400.00 n |
| 13C-1,2,3,7,8-PeCDD     | 237598000 | 1.55 y | 27:40 | 0.6535 | 100.00 n |
| 1,2,3,7,8-PeCDD         | 458679000 | 1.50 y | 27:43 | 0.9652 | 200.00 n |
| Total PeCDD             | -         | - n    | -     | 0.9652 | 200.00 n |
| 13C-1,2,3,7,8,9-HxCDD   | 248923000 | 1.30 y | 33:22 | -      | 100.00 n |
| 13C-1,2,3,4,7,8-HxCDF   | 267009400 | 0.51 y | 32:16 | 1.0727 | 100.00 n |
| 1,2,3,4,7,8-HxCDF       | 658410000 | 1.16 y | 32:17 | 1.2329 | 200.00 n |
| 1,2,3,6,7,8-HxCDF       | 673142000 | 1.18 y | 32:24 | 1.2605 | 200.00 n |
| 2,3,4,6,7,8-HxCDF       | 645815000 | 1.17 y | 32:54 | 1.2093 | 200.00 n |
| 1,2,3,7,8,9-HxCDF       | 567208000 | 1.17 y | 33:33 | 1.0621 | 200.00 n |
| Total HxCDF             | -         | - n    | -     | 1.1912 | 800.00 n |
| 13C-1,2,3,6,7,8-HxCDD   | 197349200 | 1.31 y | 33:06 | 0.7928 | 100.00 n |
| 1,2,3,4,7,8-HxCDD       | 422231040 | 1.45 n | 33:03 | 1.0698 | 200.00 n |
| 1,2,3,6,7,8-HxCDD       | 481044000 | 1.12 y | 33:07 | 1.2188 | 200.00 n |
| 1,2,3,7,8,9-HxCDD       | 488146000 | 1.26 y | 33:23 | 1.2368 | 200.00 n |
| Total HxCDD             | -         | - n    | -     | 1.1751 | 600.00 n |
| 13C-1,2,3,4,6,7,8-HpCDF | 214761200 | 0.43 y | 34:53 | 0.8628 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDF     | 593215000 | 1.01 y | 34:54 | 1.3811 | 200.00 n |
| 1,2,3,4,7,8,9-HpCDF     | 485366000 | 1.01 y | 36:03 | 1.1300 | 200.00 n |
| Total HpCDF             | -         | - n    | -     | 1.2556 | 400.00 n |
| 13C-1,2,3,4,6,7,8-HpCDD | 197451500 | 1.05 y | 35:42 | 0.7932 | 100.00 n |
| 1,2,3,4,6,7,8-HpCDD     | 435214000 | 1.03 y | 35:43 | 1.1021 | 200.00 n |
| Total HpCDD             | -         | - n    | -     | 1.1021 | 200.00 n |
| 13C-OCDD                | 291770000 | 0.90 y | 38:16 | 0.5861 | 200.00 n |
| OCDF                    | 820312000 | 0.90 y | 38:23 | 1.4058 | 400.00 n |
| OCDD                    | 694943000 | 0.90 y | 38:16 | 1.1909 | 400.00 n |

Run #4 Filename 21JL10A4D5 S: 7 I: 1  
 Acquired: 21-JUL-10 19:03:58 Processed: 22-JUL-10 12:01:12  
 Run: 15SE098D2 Analyte: TO9 Cal: TO90721104D5

## Comments:

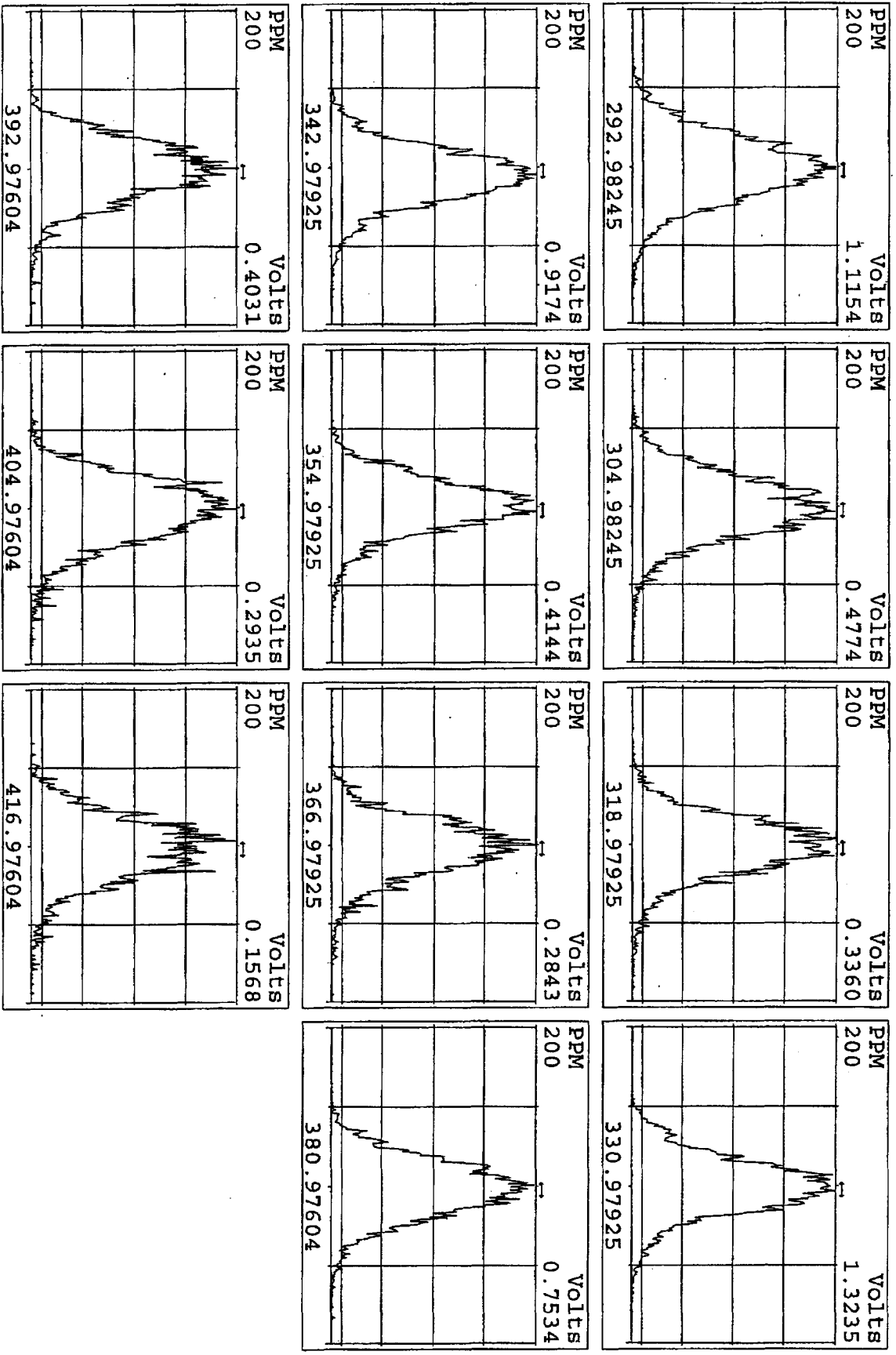
Sample text: ST0721D :CS-5 10DXN339

| Name                    | Resp       | RA     | RT    | RRF    |         | Mod? |
|-------------------------|------------|--------|-------|--------|---------|------|
| 13C-1,2,3,4-TCDD        | 350659000  | 0.80 y | 20:02 | -      | 100.00  | n    |
| 13C-2,3,7,8-TCDF        | 360772000  | 0.79 y | 19:24 | 1.0288 | 100.00  | n    |
| 2,3,7,8-TCDF            | 697458000  | 0.77 y | 19:25 | 0.9666 | 200.00  | n    |
| Total TCDF              | -          | - n    | -     | 0.9666 | 200.00  | n    |
| 13C-2,3,7,8-TCDD        | 309835000  | 0.78 y | 20:14 | 0.8836 | 100.00  | n    |
| 2,3,7,8-TCDD            | 626791000  | 0.79 y | 20:16 | 1.0115 | 200.00  | n    |
| Total TCDD              | -          | - n    | -     | 1.0115 | 200.00  | n    |
| 37Cl-2,3,7,8-TCDD       | 837356000  | 1.00 y | 20:15 | 1.3513 | 200.00  | n    |
| 13C-1,2,3,7,8-PeCDF     | 310980000  | 1.54 y | 25:18 | 0.8868 | 100.00  | n    |
| 1,2,3,7,8-PeCDF         | 3461250000 | 1.54 y | 25:20 | 1.1130 | 1000.00 | n    |
| 2,3,4,7,8-PeCDF         | 3239400000 | 1.52 y | 26:52 | 1.0417 | 1000.00 | n    |
| Total F2 PeCDF          | -          | - n    | -     | 1.0773 | 2000.00 | n    |
| Total F1 PeCDF          | -          | - n    | -     | 1.0773 | 2000.00 | n    |
| 13C-1,2,3,7,8-PeCDD     | 235100700  | 1.56 y | 27:42 | 0.6705 | 100.00  | n    |
| 1,2,3,7,8-PeCDD         | 2235314000 | 1.50 y | 27:44 | 0.9508 | 1000.00 | n    |
| Total PeCDD             | -          | - n    | -     | 0.9508 | 1000.00 | n    |
| 13C-1,2,3,7,8,9-HxCDD   | 256316000  | 1.29 y | 33:22 | -      | 100.00  | n    |
| 13C-1,2,3,4,7,8-HxCDF   | 256243600  | 0.51 y | 32:16 | 0.9997 | 100.00  | n    |
| 1,2,3,4,7,8-HxCDF       | 3131920000 | 1.15 y | 32:17 | 1.2222 | 1000.00 | n    |
| 1,2,3,6,7,8-HxCDF       | 3410730000 | 1.19 y | 32:24 | 1.3311 | 1000.00 | n    |
| 2,3,4,6,7,8-HxCDF       | 3245730000 | 1.18 y | 32:55 | 1.2667 | 1000.00 | n    |
| 1,2,3,7,8,9-HxCDF       | 2825950000 | 1.18 y | 33:33 | 1.1028 | 1000.00 | n    |
| Total HxCDF             | -          | - n    | -     | 1.2307 | 4000.00 | n    |
| 13C-1,2,3,6,7,8-HxCDD   | 198188400  | 1.30 y | 33:07 | 0.7732 | 100.00  | n    |
| 1,2,3,4,7,8-HxCDD       | 2319900000 | 1.23 y | 33:03 | 1.1706 | 1000.00 | n    |
| 1,2,3,6,7,8-HxCDD       | 2219442000 | 1.26 y | 33:07 | 1.1199 | 1000.00 | n    |
| 1,2,3,7,8,9-HxCDD       | 2474590000 | 1.26 y | 33:23 | 1.2486 | 1000.00 | n    |
| Total HxCDD             | -          | - n    | -     | 1.1797 | 3000.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDF | 222373600  | 0.44 y | 34:54 | 0.8676 | 100.00  | n    |
| 1,2,3,4,6,7,8-HpCDF     | 3008480000 | 1.01 y | 34:54 | 1.3529 | 1000.00 | n    |
| 1,2,3,4,7,8,9-HpCDF     | 2503650000 | 1.02 y | 36:03 | 1.1259 | 1000.00 | n    |
| Total HpCDF             | -          | - n    | -     | 1.2394 | 2000.00 | n    |
| 13C-1,2,3,4,6,7,8-HpCDD | 196025300  | 1.04 y | 35:42 | 0.7648 | 100.00  | n    |
| 1,2,3,4,6,7,8-HpCDD     | 2131190000 | 1.02 y | 35:43 | 1.0872 | 1000.00 | n    |
| Total HpCDD             | -          | - n    | -     | 1.0872 | 1000.00 | n    |
| 13C-OCDD                | 305368000  | 0.90 y | 38:16 | 0.5957 | 200.00  | n    |
| OCDF                    | 4252770000 | 0.90 y | 38:23 | 1.3927 | 2000.00 | n    |
| OCDD                    | 3562830000 | 0.90 y | 38:16 | 1.1667 | 2000.00 | n    |

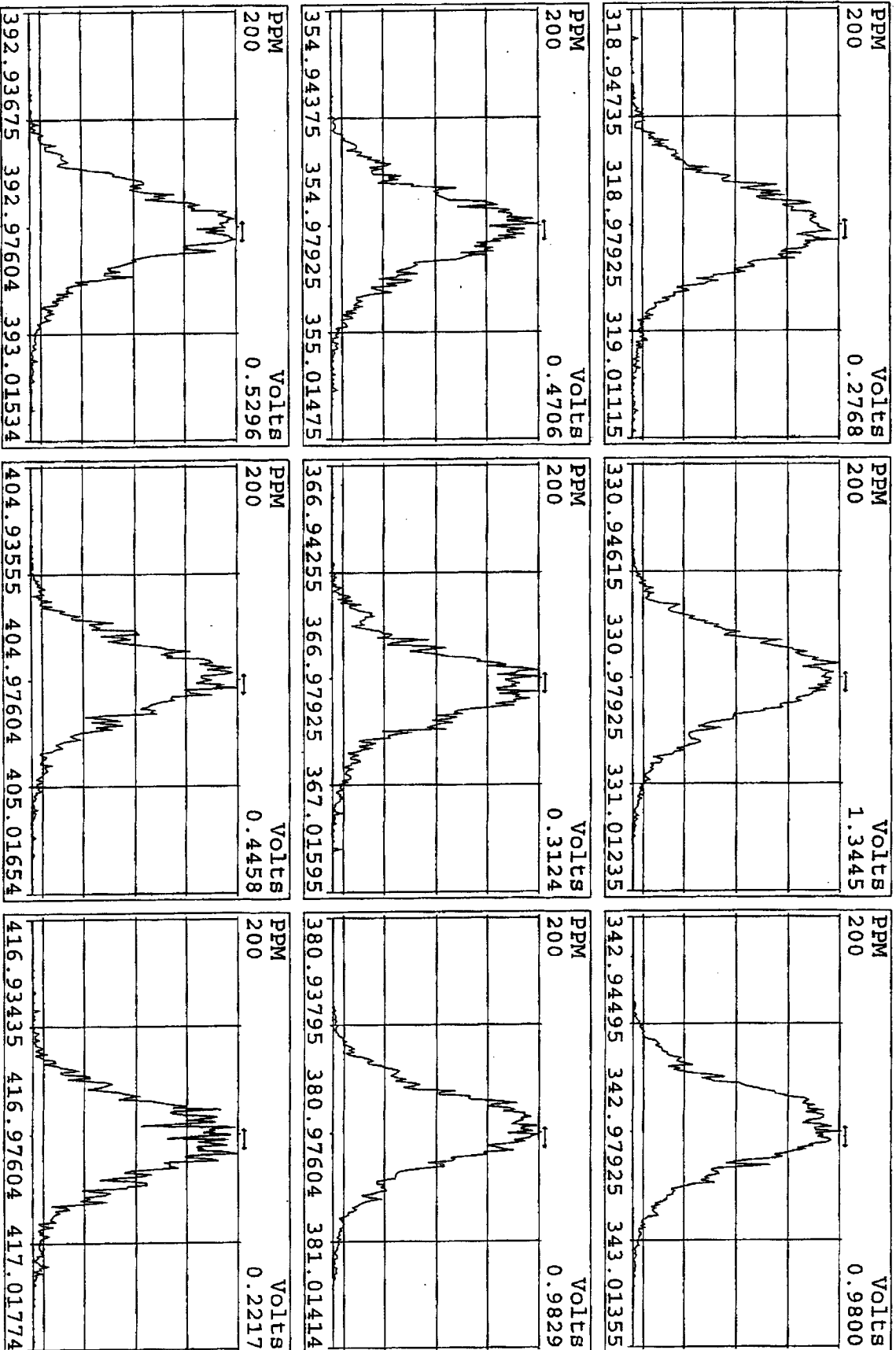
| Data file  | Smp | Work Order | Sample ID                                     | FV-uL | Method/Matrix | Box | Size    | U |
|------------|-----|------------|---|-------|---------------|-----|---------|---|
| 21JL10A4D5 | 1   | CP0721     | DB-5 CPSM 3732-08                             |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 2   | SB0721     | Solvent Blank C-14                            |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 3   | ST0721     | CS-0.2 10DXN333 (Not used) sensitivity ✓ only |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 4   | ST0721A    | CS-1 10DXN342                                 |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 5   | ST0721B    | CS-2 10DXN334                                 |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 6   | ST0721C    | CS-3 10DXN336                                 |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 7   | ST0721D    | CS-5 10DXN339                                 |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 8   | ST0721E    | CS-4 10DXN337                                 |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 9   | ST0721F    | 2nd Source 10DXN340                           |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 10  |            |   |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 11  |            |   |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 12  |            |   |       |               |     | 1.00000 |   |
| 21JL10A4D5 | 13  |            | KSS 07-21-10                                  |       |               |     | 1.00000 |   |

*log file v'd  
NR 7/22/10*

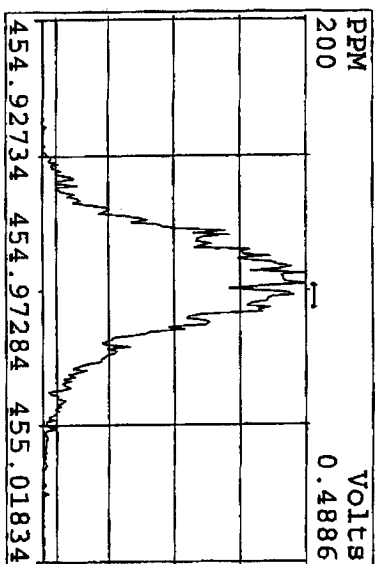
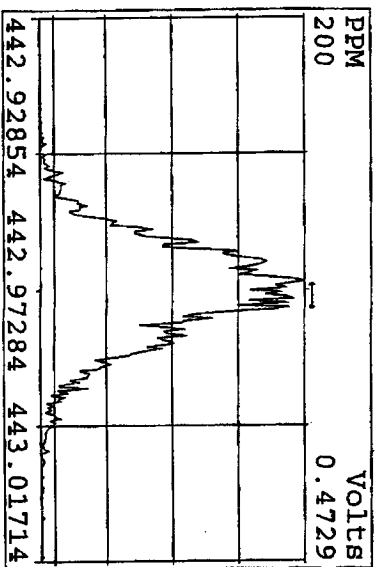
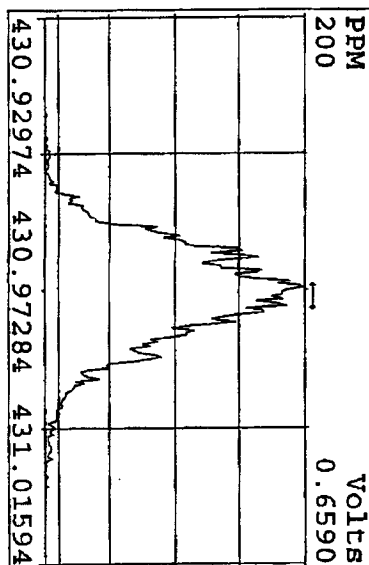
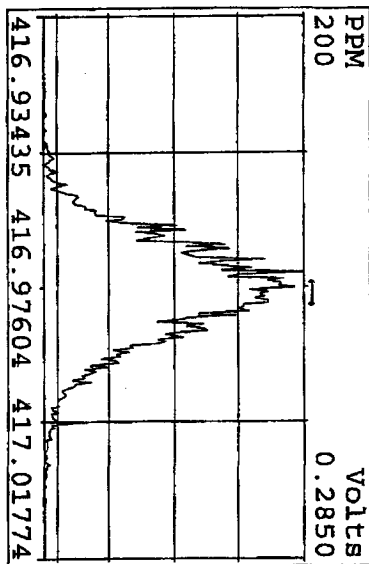
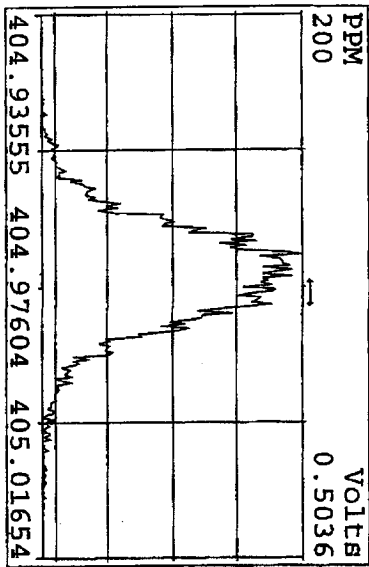
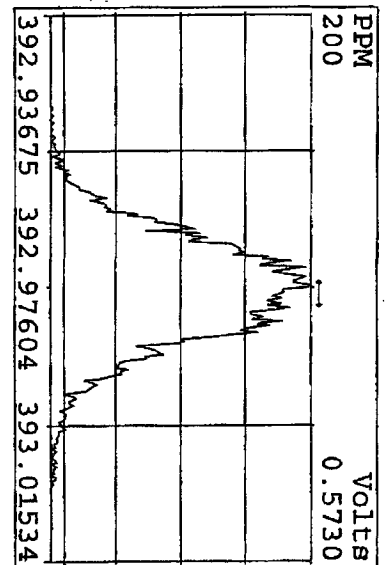
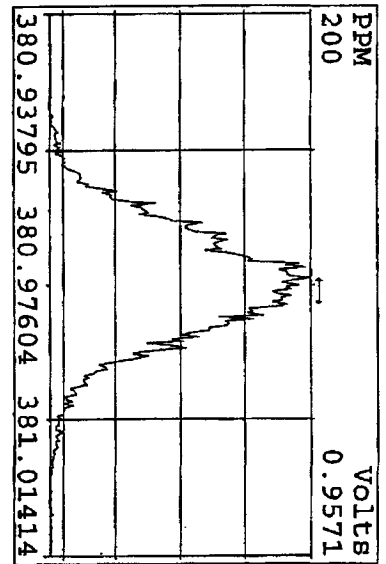
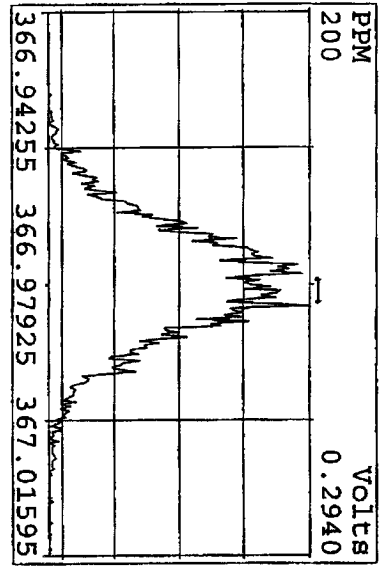
Peak Locate Examination: 21-JUL-2010:14:30 File: 21JUL10A4D5  
Experiment: DIOXINRS Function: 1 Reference: PFK



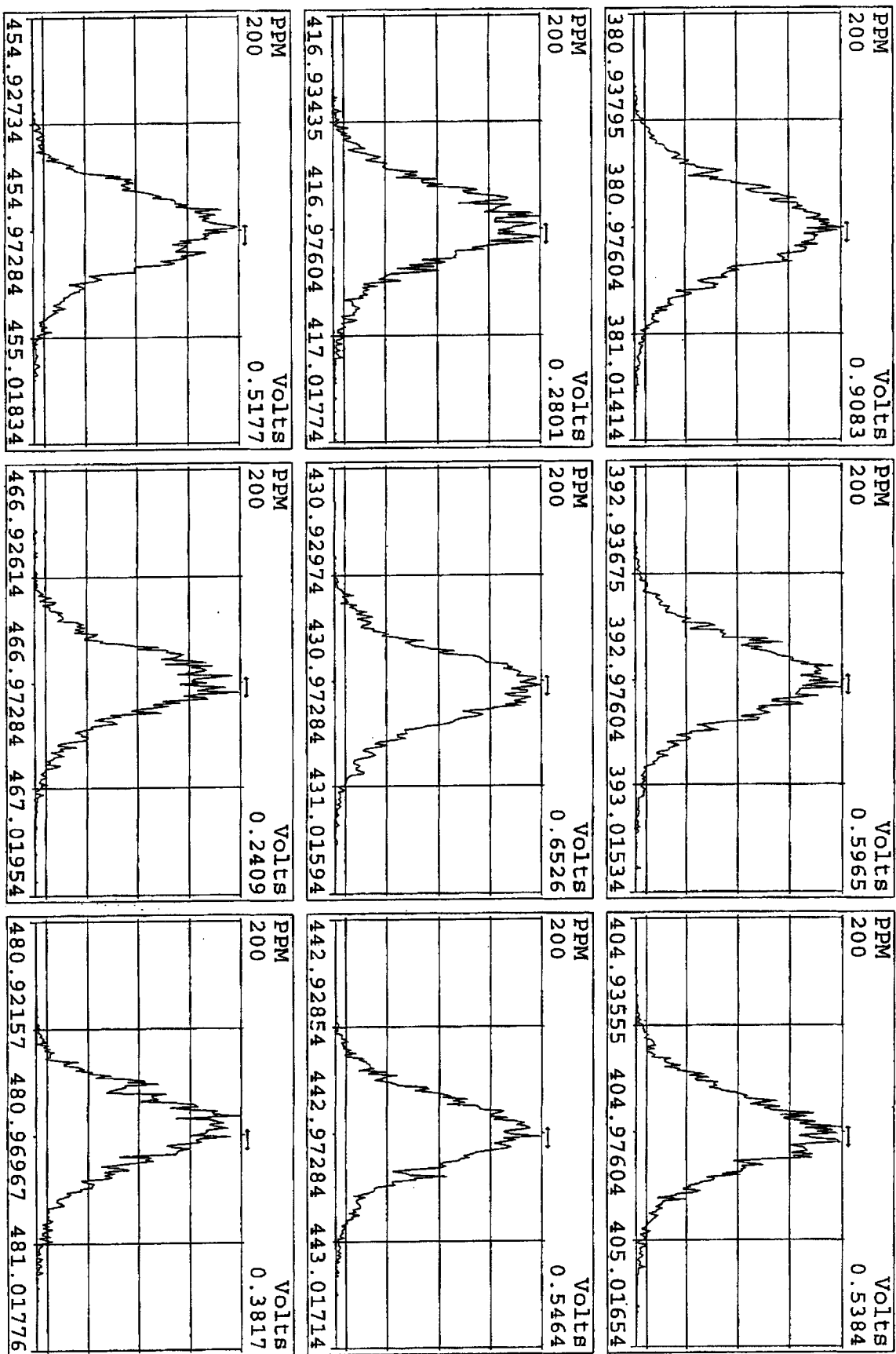
Peak Locate Examination: 21-JUL-2010: 14:31 File: 21JUL10A4DS  
 Experiment: DIOXINRES Function: 2 Reference: PFK



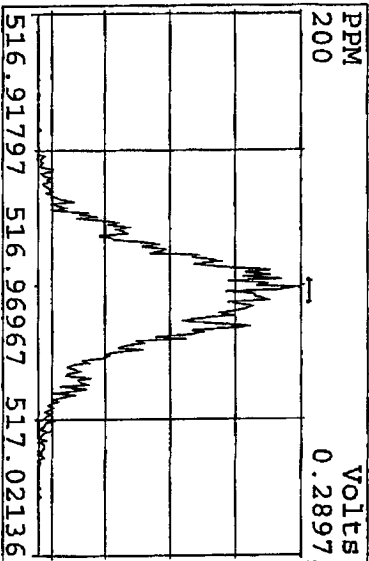
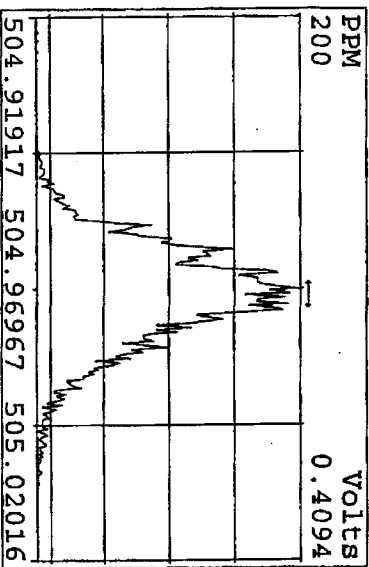
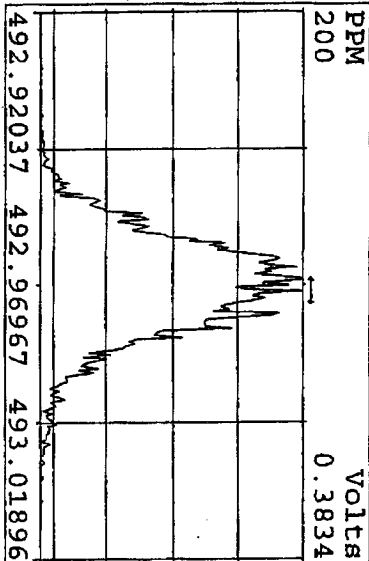
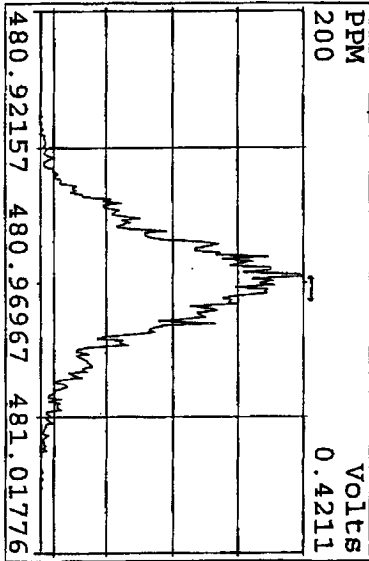
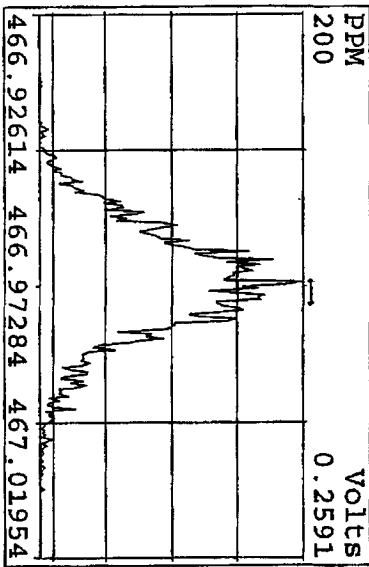
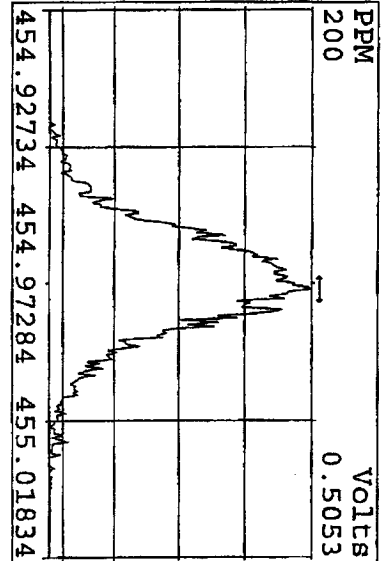
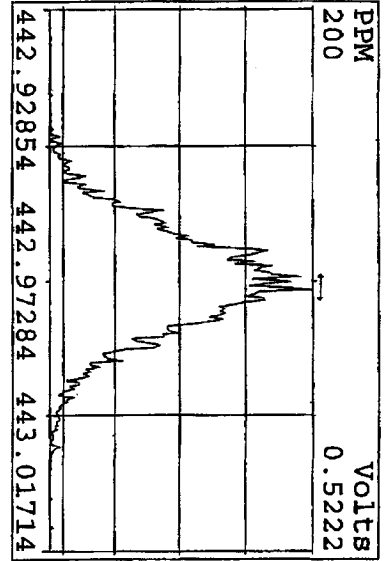
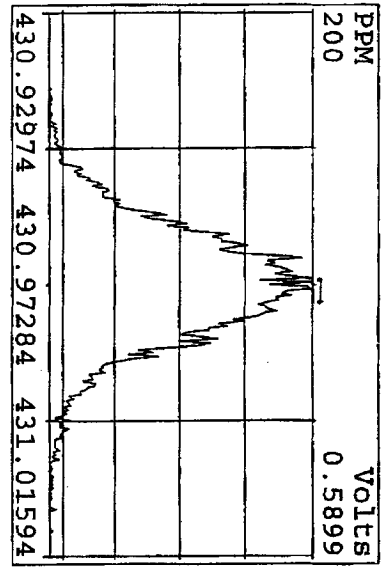
Peak Locate Examination: 21-JUL-2010:14:31 File: 21JUL10A4D5  
 Experiment: DIOXINRES Function: 3 Reference: PFK



Peak Locate Examination: 21-JUL-2010: 14:31 File: 21JUL10A4D5  
 Experiment: DIOXINRES Function: 4 Reference: PFK

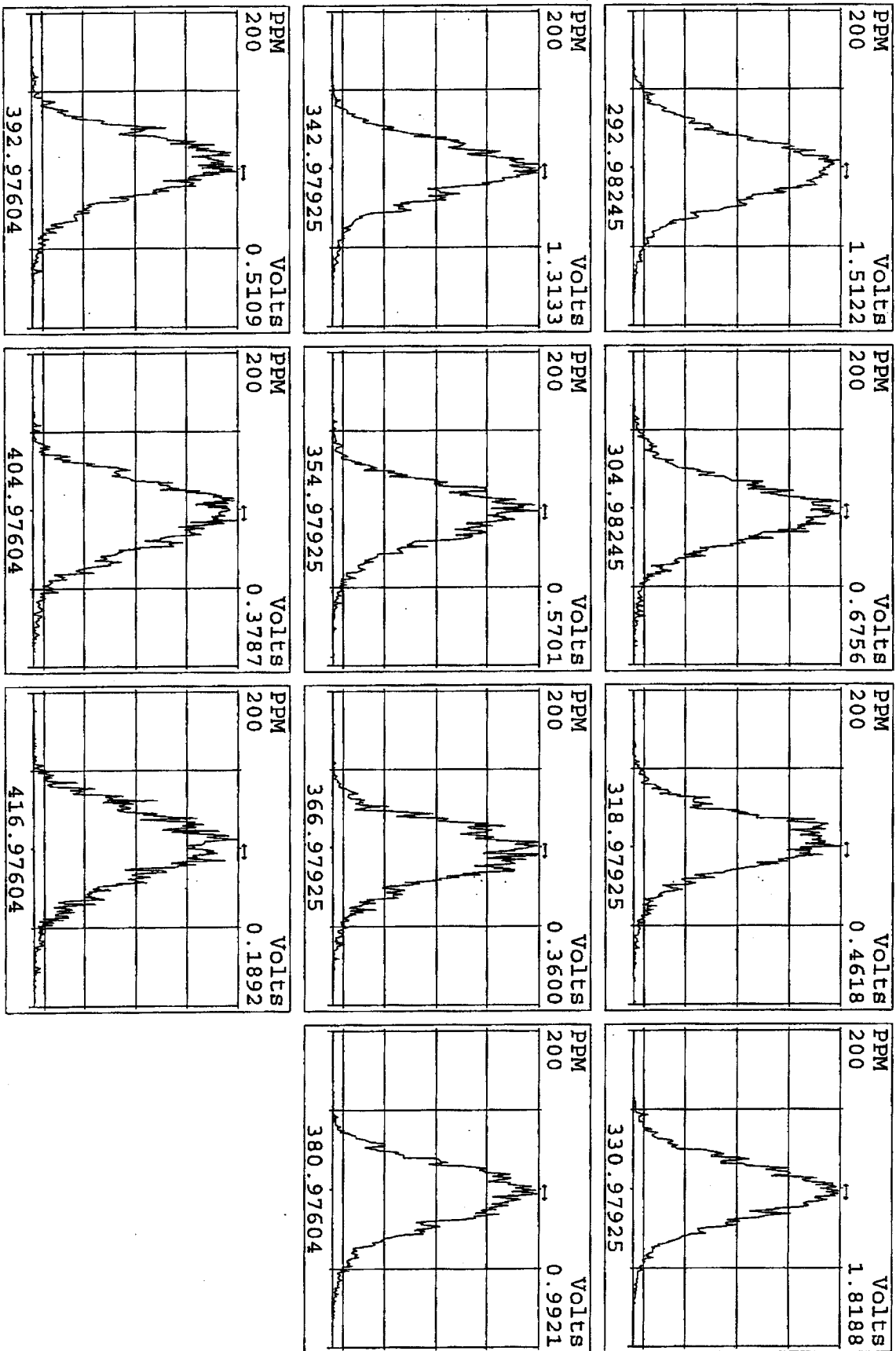


Peak Locate Examination: 21-JUL-2010:14:31 File: 21JUL10A4D5  
 Experiment: DIOXINRES Function: 5 Reference: PFK

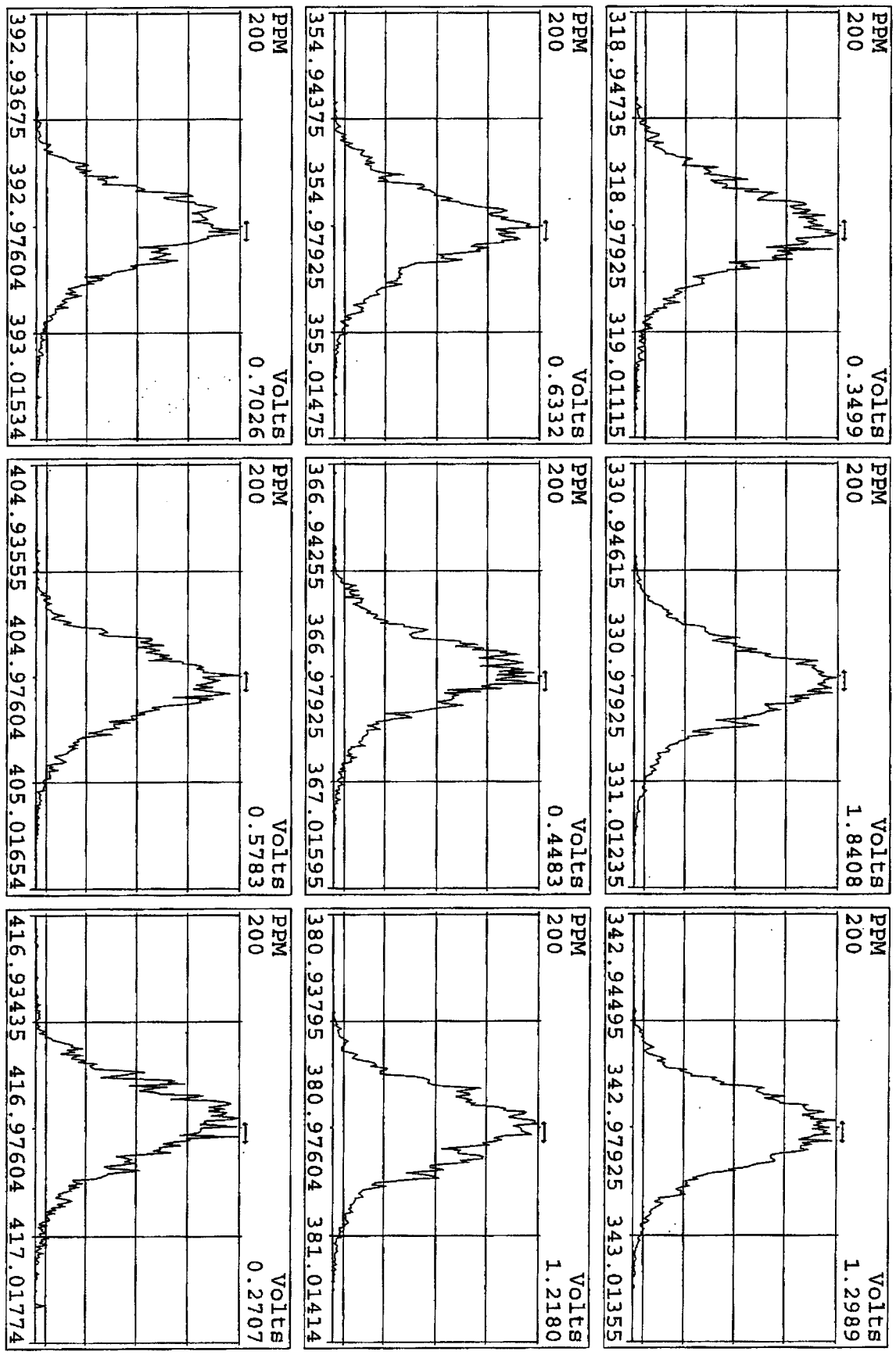




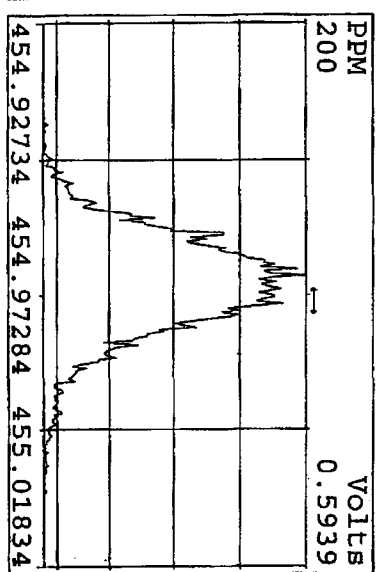
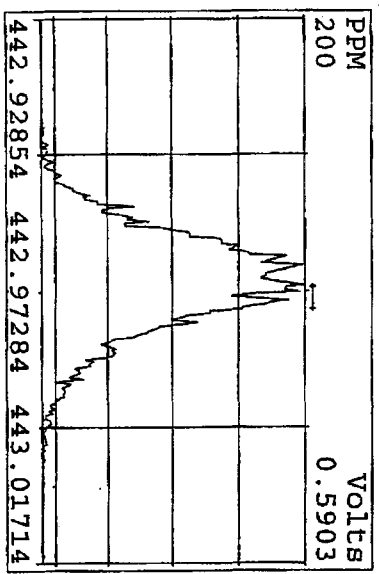
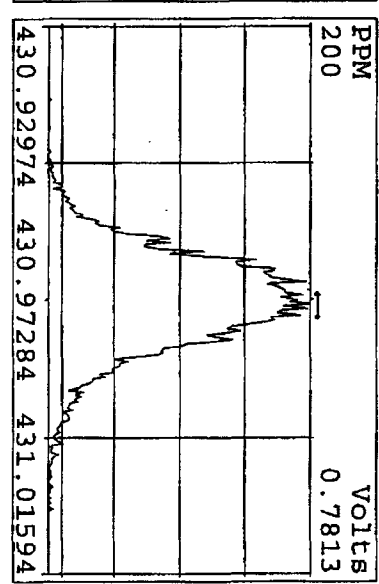
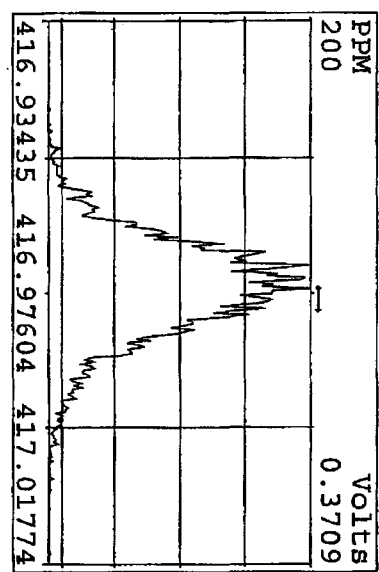
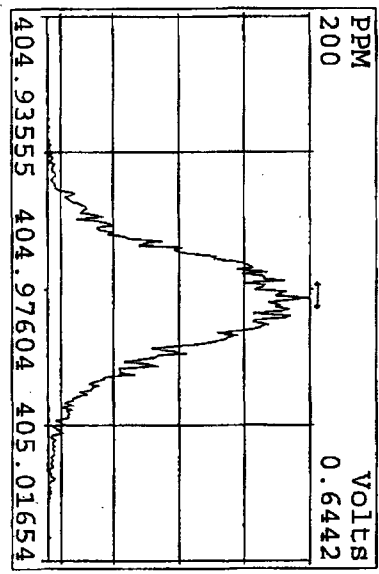
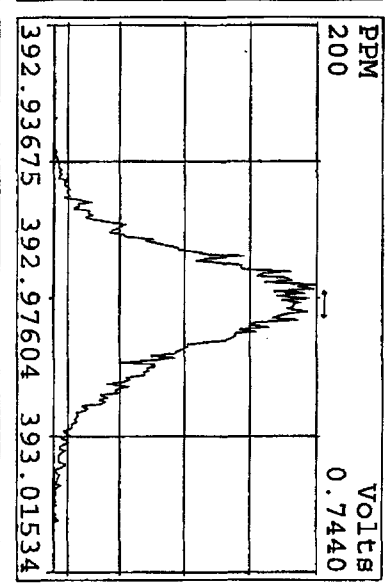
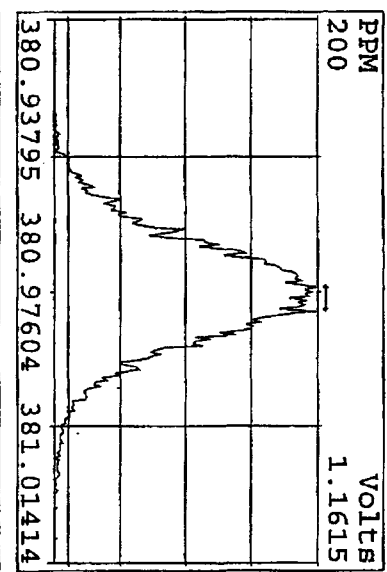
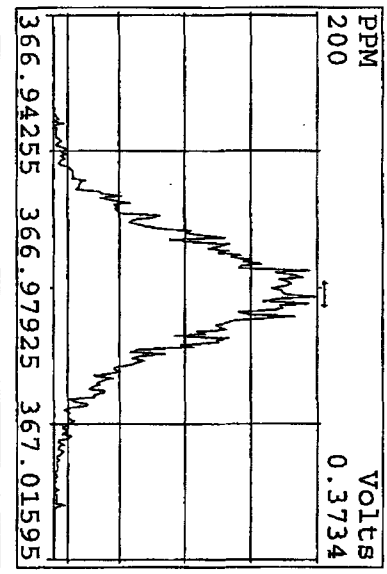
Peak Locate Examination: 21-JUL-2010: 21:39 File: RESCHK21JUL10A4D5  
Experiment: DIOXINRES Function: 1 Reference: PFK



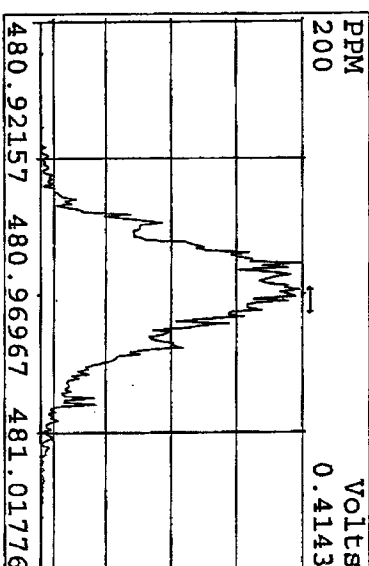
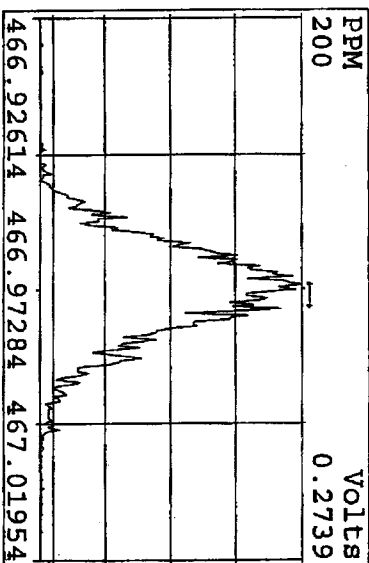
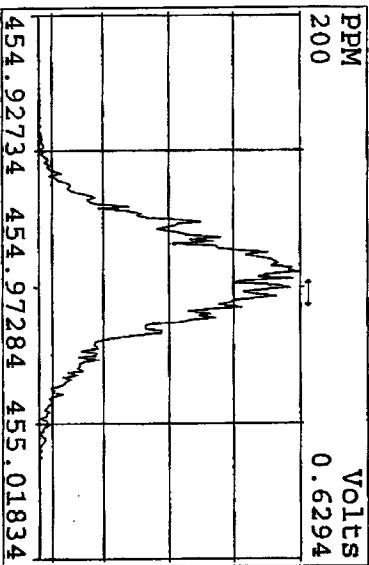
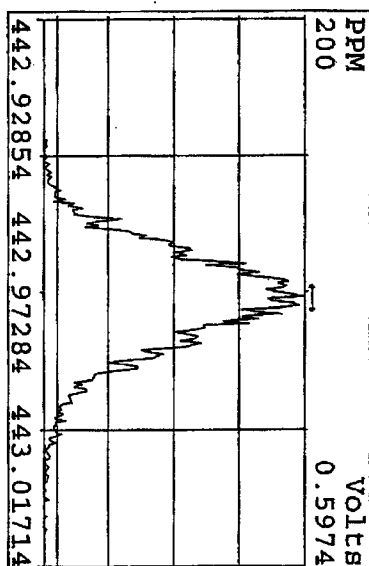
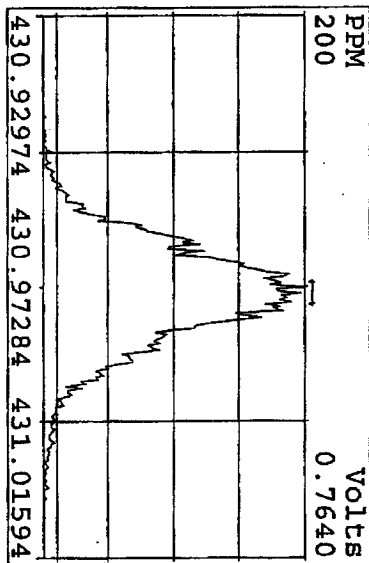
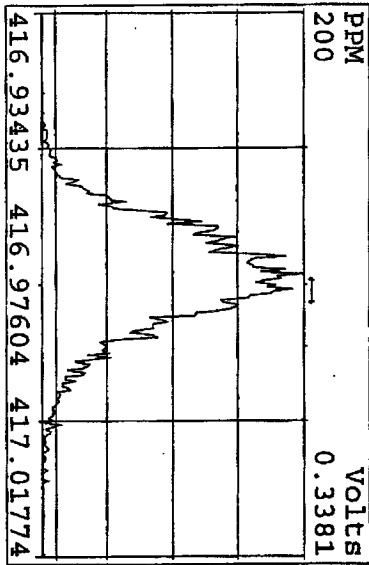
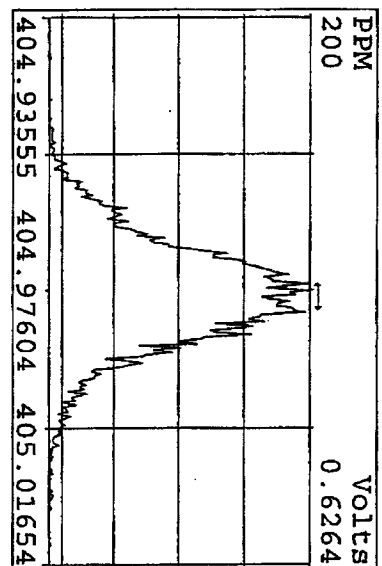
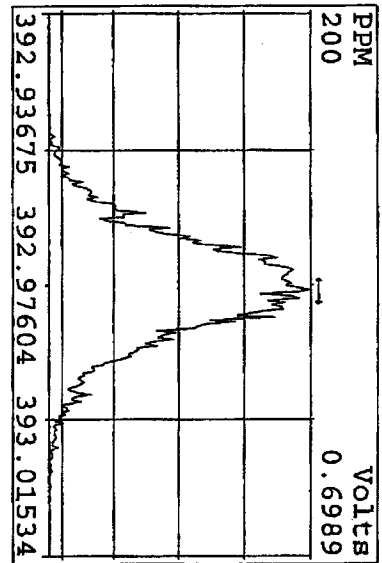
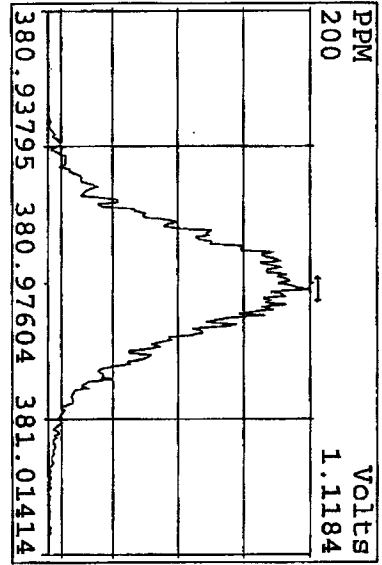
Peak Locate Examination: 21-JUL-2010: 21:40 File: RESCHK21JUL10A4DS  
 Experiment: DIOXINRES Function: 2 Reference: PFX



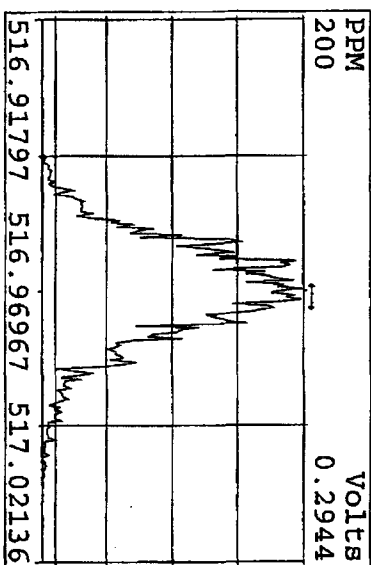
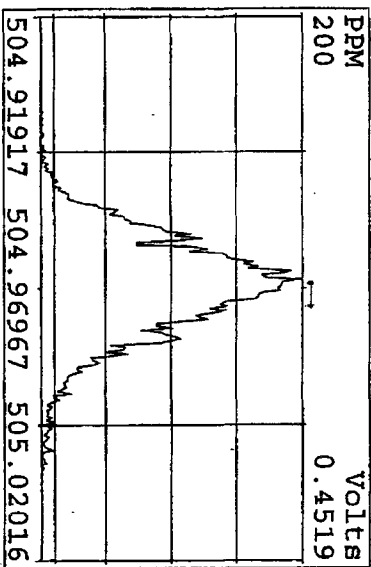
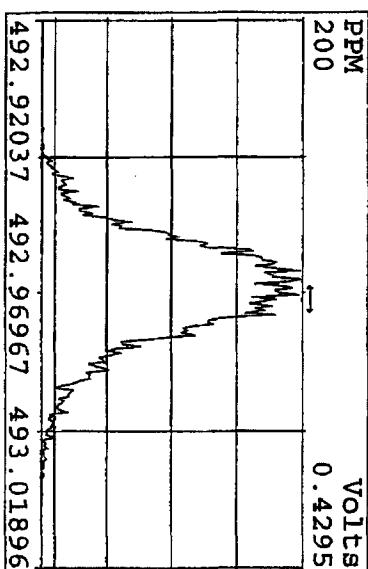
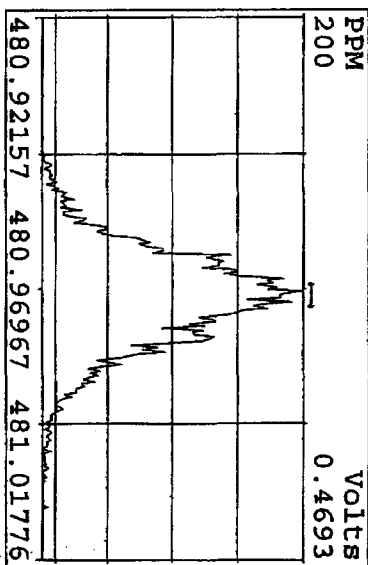
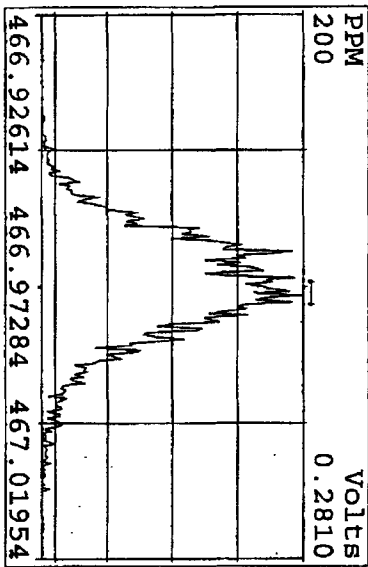
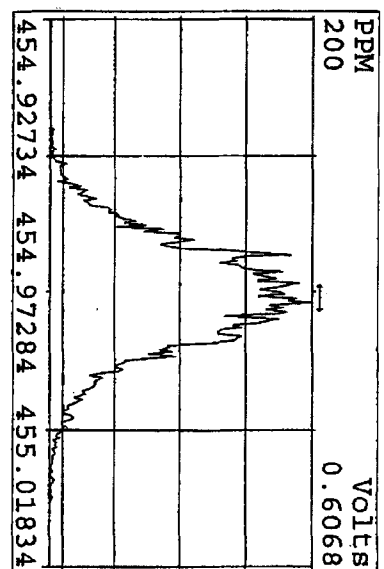
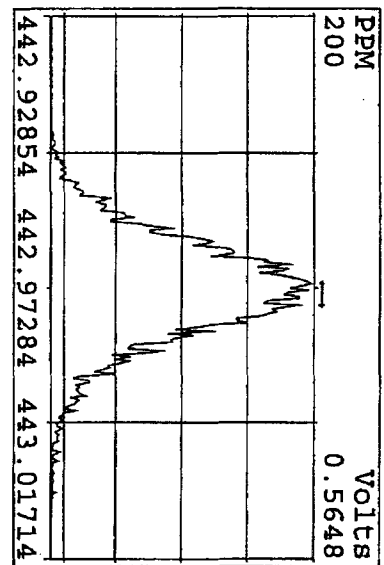
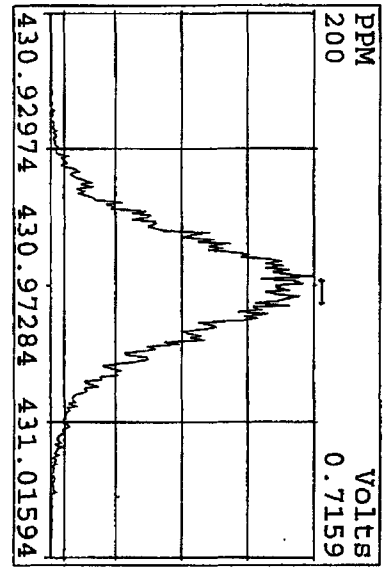
Peak Locate Examination: 21-JUL-2010: 21:40 File: RESCHK21JUL10A4D5  
 Experiment: DIOXINRES Function: 3 Reference: PFK



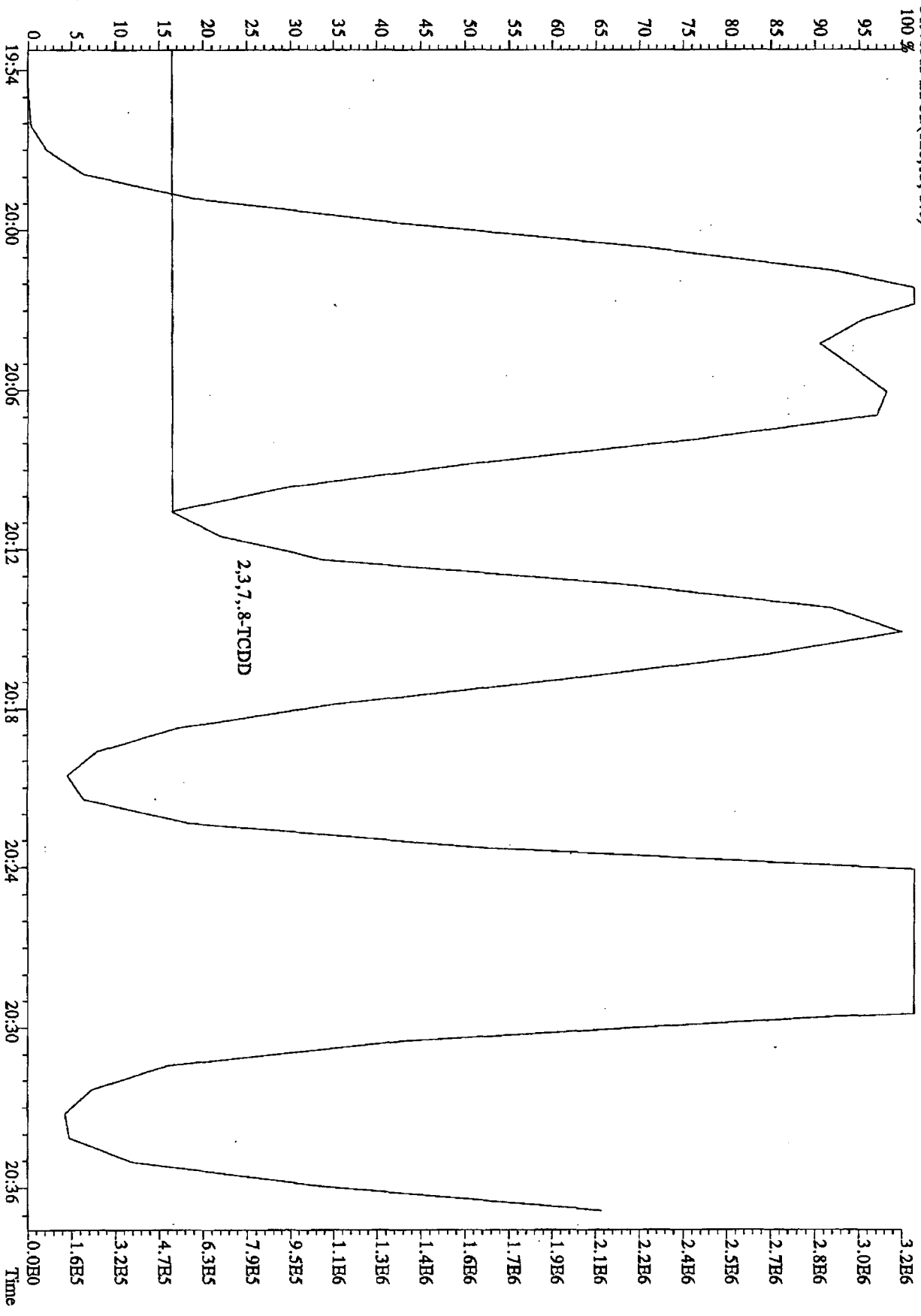
Peak Locate Examination: 21-JUL-2010: 21:41 File: RESCHK21JUL10A4D5  
 Experiment: DIOXINRES Function: 4 Reference: PFK



Peak Locate Examination: 21-JUL-2010:21:44 File: RESCHK21JUL10A4DS  
 Experiment: DIOXINRES Function: 5 Reference: PFK



File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC FI+ Voltage SIR Autospec-UltraE  
Sample#1 Exp:DIOXINRES  
319.8965 BSUB(128,15,-3.0)



Run text: ST0721F Sample text: ST0721F :2nd Source 10DXN340  
 Run #6 Filename: 21JL10A4D5 S: 9 I: 1 Results: 21JL10A4D51613SS  
 Acquired: 21-JUL-10 20:34:02 Processed: 22-JUL-10 10:21:57  
 Run: 21JL10A4D5 Analyte: 1613 Cal: 16130721104D5  
 Factor 1: 800.000 Factor 2: 20.000 Sample size: 1.000000

Spiked @ 200/500/1000

7/22/10

| Name                    | Resp      | RA     | RT      | RRF  | Conc    | EDL  | Rec   | M |
|-------------------------|-----------|--------|---------|------|---------|------|-------|---|
| 13C-1,2,3,4-TCDD        | 307629000 | 0.78 y | 20:01   | -    | 92.11   | -    | -     | n |
| 13C-2,3,7,8-TCDF        | 413901000 | 0.78 y | 19:24   | 1.23 | 2188.90 | 0.92 | 109.4 | n |
| 2,3,7,8-TCDF            | 38830800  | 0.76 y | 19:25   | 0.99 | 188.67  | 0.48 | -     | n |
| Total TCDF              | 39472107  | 1.33 n | 17:31   | 0.99 | 191.78  | 0.48 | -     | n |
| 13C-2,3,7,8-TCDD        | 294375000 | 0.78 y | 20:13   | 0.91 | 2114.60 | 2.32 | 105.7 | n |
| 2,3,7,8-TCDD            | 27522700  | 0.81 y | 20:14   | 0.98 | 190.13  | 0.52 | -     | n |
| Total TCDD              | 27522700  | 0.81 y | 20:14   | 0.98 | 190.13  | 0.52 | -     | n |
| 37Cl-2,3,7,8-TCDD       | 76164600  | 1.00 y | 20:14   | 1.20 | 412.65  | 0.41 | 103.2 | n |
| 13C-1,2,3,7,8-PeCDF     | 302436000 | 1.54 y | 25:17   | 0.88 | 2244.44 | 1.40 | 112.2 | n |
| 1,2,3,7,8-PeCDF         | 77546500  | 1.54 y | 25:19   | 1.08 | 476.31  | 1.04 | -     | n |
| 13C-2,3,4,7,8-PeCDF     | 271363000 | 1.54 y | 26:49   | 0.88 | 2003.66 | 1.40 | 100.2 | n |
| 2,3,4,7,8-PeCDF         | 68923500  | 1.55 y | 26:51   | 1.04 | 488.17  | 1.32 | -     | n |
| Total F2 PeCDF          | 149591746 | 1.40 y | 23:44   | 1.06 | 985.04  | 1.17 | -     | n |
| Total F1 PeCDF          | *         | * n    | Not Fnd | 1.06 | *       | 1.08 | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 187042900 | 1.56 y | 27:41   | 0.66 | 1840.17 | 0.85 | 92.0  | n |
| 1,2,3,7,8-PeCDD         | 41178400  | 1.55 y | 27:43   | 0.93 | 475.77  | 1.23 | -     | n |
| Total PeCDD             | 41347624  | 2.76 n | 25:18   | 0.93 | 477.73  | 1.23 | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 186030000 | 1.31 y | 33:22   | -    | 78.56   | -    | -     | y |
| 13C-1,2,3,4,7,8-HxCDF   | 197163100 | 0.50 y | 32:16   | 1.04 | 2028.83 | 4.92 | 101.4 | n |
| 1,2,3,4,7,8-HxCDF       | 62815000  | 1.17 y | 32:17   | 1.22 | 523.47  | 1.49 | -     | n |
| 13C-1,2,3,6,7,8-HxCDF   | 249545100 | 0.52 y | 32:22   | 1.19 | 2251.50 | 4.31 | 112.6 | n |
| 1,2,3,6,7,8-HxCDF       | 64154700  | 1.18 y | 32:24   | 1.12 | 458.58  | 1.45 | -     | n |
| 13C-2,3,4,6,7,8-HxCDF   | 228157700 | 0.51 y | 32:54   | 1.12 | 2184.24 | 4.58 | 109.2 | n |
| 2,3,4,6,7,8-HxCDF       | 61275400  | 1.15 y | 32:54   | 1.14 | 469.19  | 1.35 | -     | n |
| 13C-1,2,3,7,8,9-HxCDF   | 202978100 | 0.52 y | 33:31   | 1.02 | 2140.44 | 5.04 | 107.0 | n |
| 1,2,3,7,8,9-HxCDF       | 54870000  | 1.19 y | 33:32   | 1.12 | 482.01  | 1.58 | -     | n |
| Total HxCDF             | 243548785 | 1.21 y | 31:03   | 1.15 | 1936.68 | 1.46 | -     | n |
| 13C-1,2,3,4,7,8-HxCDD   | 168448700 | 1.31 y | 33:02   | 0.88 | 2067.53 | 1.23 | 103.4 | y |
| 1,2,3,4,7,8-HxCDD       | 39583500  | 1.24 y | 33:03   | 0.98 | 479.57  | 1.14 | -     | n |
| 13C-1,2,3,6,7,8-HxCDD   | 171613300 | 1.31 y | 33:06   | 0.83 | 2221.03 | 1.29 | 111.1 | y |
| 1,2,3,6,7,8-HxCDD       | 45328400  | 1.28 y | 33:07   | 1.16 | 454.27  | 0.97 | -     | n |
| 1,2,3,7,8,9-HxCDD       | 45402600  | 1.24 y | 33:22   | 1.15 | 465.05  | 0.97 | -     | n |
| Total HxCDD             | 130450140 | 4.93 n | 32:18   | 1.09 | 1400.35 | 1.02 | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDF | 182370400 | 0.43 y | 34:53   | 0.91 | 2154.51 | 6.23 | 107.7 | n |
| 1,2,3,4,6,7,8-HpCDF     | 58068900  | 1.00 y | 34:54   | 1.35 | 473.20  | 1.73 | -     | n |
| 13C-1,2,3,4,7,8,9-HpCDF | 150417500 | 0.43 y | 36:02   | 0.76 | 2122.83 | 7.45 | 106.1 | n |
| 1,2,3,4,7,8,9-HpCDF     | 47489800  | 1.02 y | 36:03   | 1.30 | 483.90  | 2.38 | -     | n |
| Total HpCDF             | 107404819 | 1.00 y | 34:54   | 1.33 | 973.82  | 2.02 | -     | n |

|                         |           |      |   |       |      |         |       |      |       |   |
|-------------------------|-----------|------|---|-------|------|---------|-------|------|-------|---|
| 13C-1,2,3,4,6,7,8-HpCDD | 161779300 | 0.96 | y | 35:42 | 0.83 | 2104.12 |       | 5.07 | 105.2 | n |
| 1,2,3,4,6,7,8-HpCDD     | 42052300  | 1.04 | y | 35:43 | 1.07 | 485.09  | 97%   | 1.80 | -     | n |
| Total HpCDD             | 43164489  | 1.03 | y | 35:09 | 1.07 | 497.92  |       | 1.80 | -     | n |
| 13C-OCDD                | 265623000 | 0.89 | y | 38:16 | 0.62 | 4606.72 |       | 4.74 | 115.2 | n |
| OCDF                    | 85350600  | 0.91 | y | 38:23 | 1.37 | 937.96  | 93.8% | 1.38 | -     | n |
| OCDD                    | 74923500  | 0.91 | y | 38:16 | 1.20 | 940.76  | 94%   | 1.58 | -     | n |



Quantitation Summary

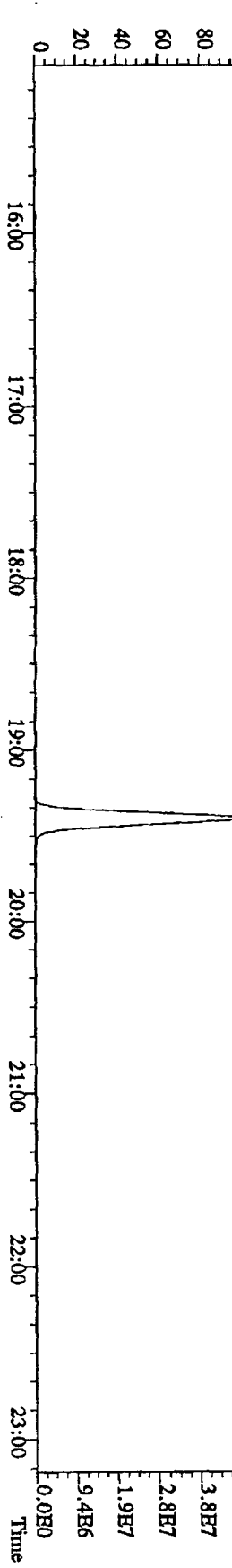
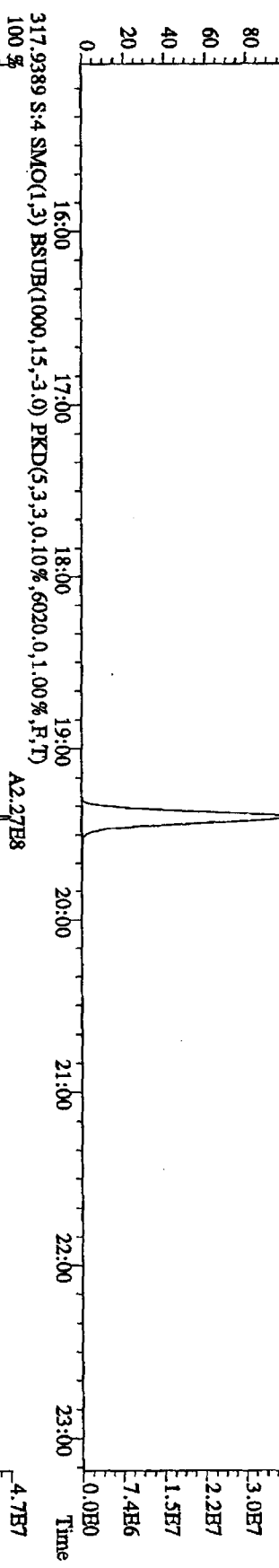
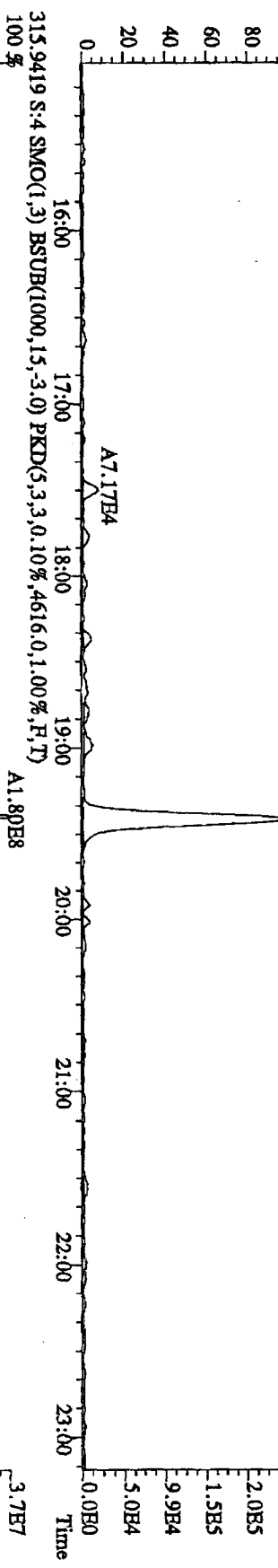
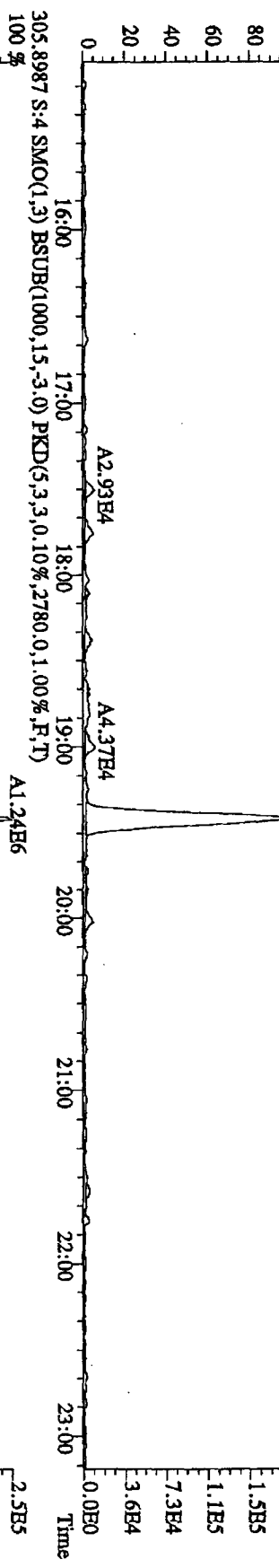
TestAmerica West Sacramento

Run text: ST0721F                      Sample text: ST0721F :2nd Source 10DXN340  
 Run #6    Filename: 21JL10A4D5    S: 9    I: 1                      Results: 21JL10A4D51613SS  
 Acquired: 21-JUL-10    20:34:02                      Processed: 22-JUL-10    10:21:57  
 Run: 21JL10A4D5                      Analyte: 1613                      Cal: 16130721104D5  
 Factor 1: 800.000                      Factor 2: 20.000                      Sample size: 1.000000

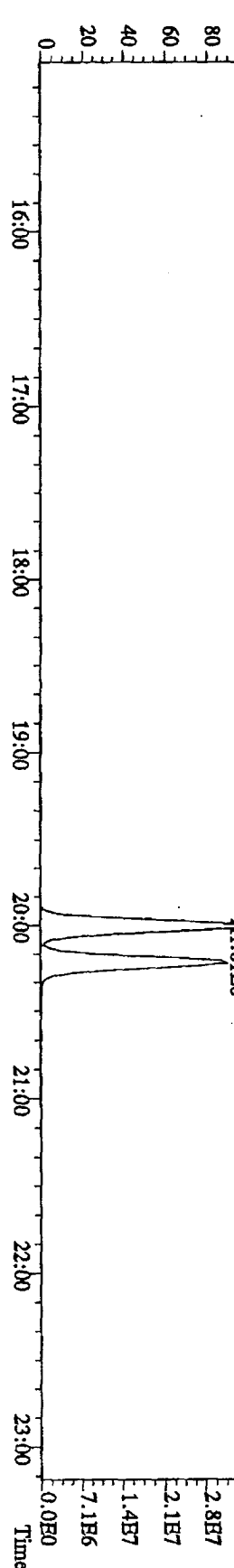
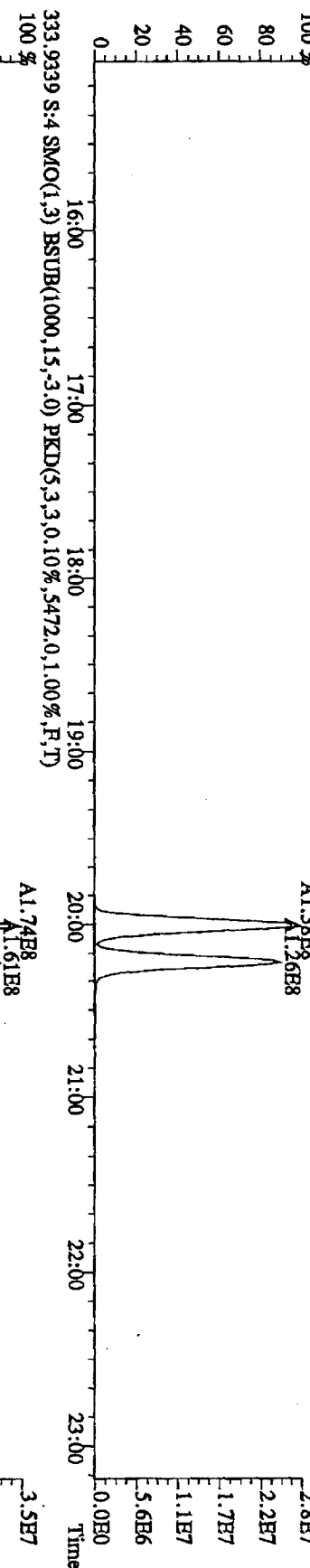
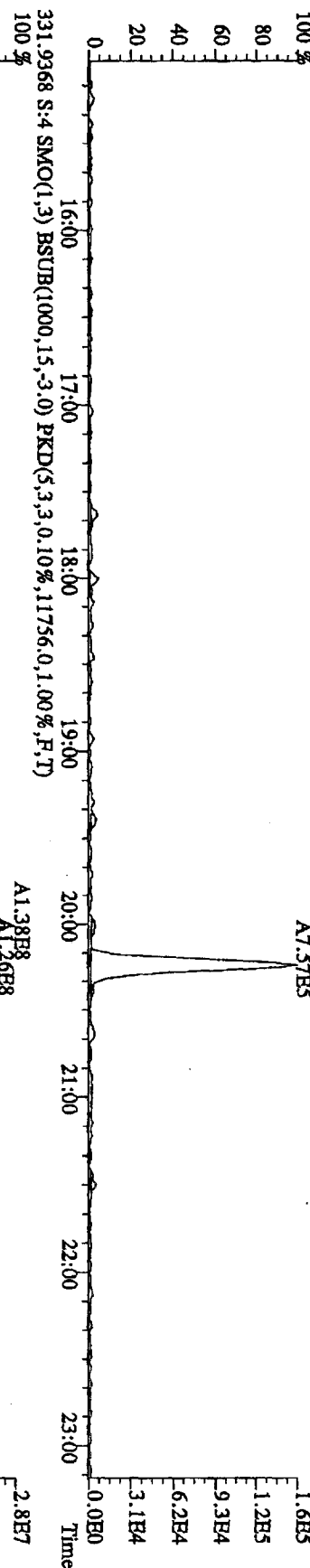
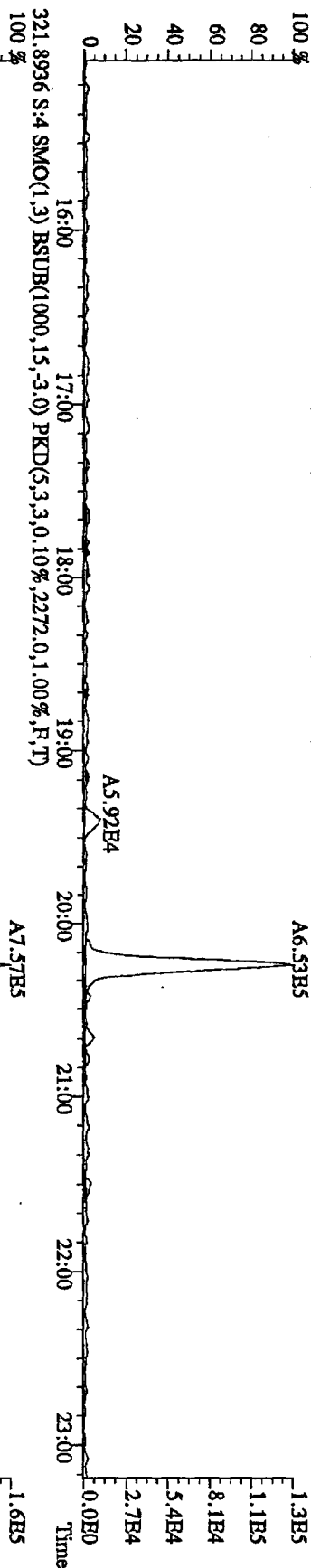
| Name                    | Resp      | RA     | RT     | RRF  | Conc    | EDL  | Rec   | M |
|-------------------------|-----------|--------|--------|------|---------|------|-------|---|
| 13C-1,2,3,4-TCDD        | 307629000 | 0.78 y | 20:01  | -    | 92.11   | -    | -     | n |
| 13C-2,3,7,8-TCDF        | 413901000 | 0.78 y | 19:24  | 1.23 | 2188.90 | 0.92 | 109.4 | n |
| 2,3,7,8-TCDF            | 38830800  | 0.76 y | 19:25  | 0.99 | 188.67  | 0.48 | -     | n |
| Total TCDF              | 39472107  | 1.33 n | 17:31  | 0.99 | 191.78  | 0.48 | -     | n |
| 13C-2,3,7,8-TCDD        | 294375000 | 0.78 y | 20:13  | 0.91 | 2114.60 | 2.32 | 105.7 | n |
| 2,3,7,8-TCDD            | 27522700  | 0.81 y | 20:14  | 0.98 | 190.13  | 0.52 | -     | n |
| Total TCDD              | 27522700  | 0.81 y | 20:14  | 0.98 | 190.13  | 0.52 | -     | n |
| 37Cl-2,3,7,8-TCDD       | 76164600  | 1.00 y | 20:14  | 1.20 | 412.65  | 0.41 | 103.2 | n |
| 13C-1,2,3,7,8-PeCDF     | 302436000 | 1.54 y | 25:17  | 0.88 | 2244.44 | 1.40 | 112.2 | n |
| 1,2,3,7,8-PeCDF         | 77546500  | 1.54 y | 25:19  | 1.08 | 476.31  | 1.04 | -     | n |
| 13C-2,3,4,7,8-PeCDF     | 271363000 | 1.54 y | 26:49  | 0.88 | 2003.66 | 1.40 | 100.2 | n |
| 2,3,4,7,8-PeCDF         | 68923500  | 1.55 y | 26:51  | 1.04 | 488.17  | 1.32 | -     | n |
| Total F2 PeCDF          | 149591746 | 1.40 y | 23:44  | 1.06 | 985.04  | 1.17 | -     | n |
| Total F1 PeCDF          | *         | * n    | NotEnd | 1.06 | *       | 1.08 | -     | n |
| 13C-1,2,3,7,8-PeCDD     | 187042900 | 1.56 y | 27:41  | 0.66 | 1840.17 | 0.85 | 92.0  | n |
| 1,2,3,7,8-PeCDD         | 41178400  | 1.55 y | 27:43  | 0.93 | 475.77  | 1.23 | -     | n |
| Total PeCDD             | 41347624  | 2.76 n | 25:18  | 0.93 | 477.73  | 1.23 | -     | n |
| 13C-1,2,3,7,8,9-HxCDD   | 186073000 | 1.31 y | 33:22  | -    | 78.58   | -    | -     | n |
| 13C-1,2,3,4,7,8-HxCDF   | 197163100 | 0.50 y | 32:16  | 1.04 | 2028.36 | 4.92 | 101.4 | n |
| 1,2,3,4,7,8-HxCDF       | 62815000  | 1.17 y | 32:17  | 1.22 | 523.47  | 1.49 | -     | n |
| 13C-1,2,3,6,7,8-HxCDF   | 249545100 | 0.52 y | 32:22  | 1.19 | 2250.98 | 4.31 | 112.5 | n |
| 1,2,3,6,7,8-HxCDF       | 64154700  | 1.18 y | 32:24  | 1.12 | 458.58  | 1.45 | -     | n |
| 13C-2,3,4,6,7,8-HxCDF   | 228157700 | 0.51 y | 32:54  | 1.12 | 2183.74 | 4.58 | 109.2 | n |
| 2,3,4,6,7,8-HxCDF       | 61275400  | 1.15 y | 32:54  | 1.14 | 469.19  | 1.35 | -     | n |
| 13C-1,2,3,7,8,9-HxCDF   | 202978100 | 0.52 y | 33:31  | 1.02 | 2139.94 | 5.04 | 107.0 | n |
| 1,2,3,7,8,9-HxCDF       | 54870000  | 1.19 y | 33:32  | 1.12 | 482.01  | 1.58 | -     | n |
| Total HxCDF             | 243548785 | 1.21 y | 31:03  | 1.15 | 1936.68 | 1.46 | -     | n |
| 13C-1,2,3,4,7,8-HxCDD   | 151949728 | 1.50 n | 33:02  | 0.88 | 1864.59 | 1.23 | 93.2  | n |
| 1,2,3,4,7,8-HxCDD       | 39583500  | 1.24 y | 33:03  | 0.98 | 531.65  | 1.26 | -     | n |
| 13C-1,2,3,6,7,8-HxCDD   | 170186500 | 1.15 y | 33:06  | 0.83 | 2202.05 | 1.29 | 110.1 | n |
| 1,2,3,6,7,8-HxCDD       | 45328400  | 1.28 y | 33:07  | 1.16 | 458.08  | 0.97 | -     | n |
| 1,2,3,7,8,9-HxCDD       | 45402600  | 1.24 y | 33:22  | 1.15 | 490.93  | 1.03 | -     | n |
| Total HxCDD             | 130450140 | 4.93 n | 32:18  | 1.09 | 1482.19 | 1.08 | -     | n |
| 13C-1,2,3,4,6,7,8-HpCDF | 182370400 | 0.43 y | 34:53  | 0.91 | 2154.02 | 6.23 | 107.7 | n |
| 1,2,3,4,6,7,8-HpCDF     | 58068900  | 1.00 y | 34:54  | 1.35 | 473.20  | 1.73 | -     | n |
| 13C-1,2,3,4,7,8,9-HpCDF | 150417500 | 0.43 y | 36:02  | 0.76 | 2122.34 | 7.45 | 106.1 | n |
| 1,2,3,4,7,8,9-HpCDF     | 47489800  | 1.02 y | 36:03  | 1.30 | 483.90  | 2.38 | -     | n |
| Total HpCDF             | 107404819 | 1.00 y | 34:54  | 1.33 | 973.82  | 2.02 | -     | n |

|                         |           |      |   |       |      |         |      |       |   |
|-------------------------|-----------|------|---|-------|------|---------|------|-------|---|
| 13C-1,2,3,4,6,7,8-HpCDD | 161779300 | 0.96 | y | 35:42 | 0.83 | 2103.64 | 5.07 | 105.2 | n |
| 1,2,3,4,6,7,8-HpCDD     | 42052300  | 1.04 | y | 35:43 | 1.07 | 485.09  | 1.80 | -     | n |
| Total HpCDD             | 43164489  | 1.03 | y | 35:09 | 1.07 | 497.92  | 1.80 | -     | n |
| 13C-OCDD                | 265623000 | 0.89 | y | 38:16 | 0.62 | 4605.66 | 4.74 | 115.1 | n |
| OCDF                    | 85350600  | 0.91 | y | 38:23 | 1.37 | 937.96  | 1.38 | -     | n |
| OCDD                    | 74923500  | 0.91 | y | 38:16 | 1.20 | 940.76  | 1.58 | -     | n |

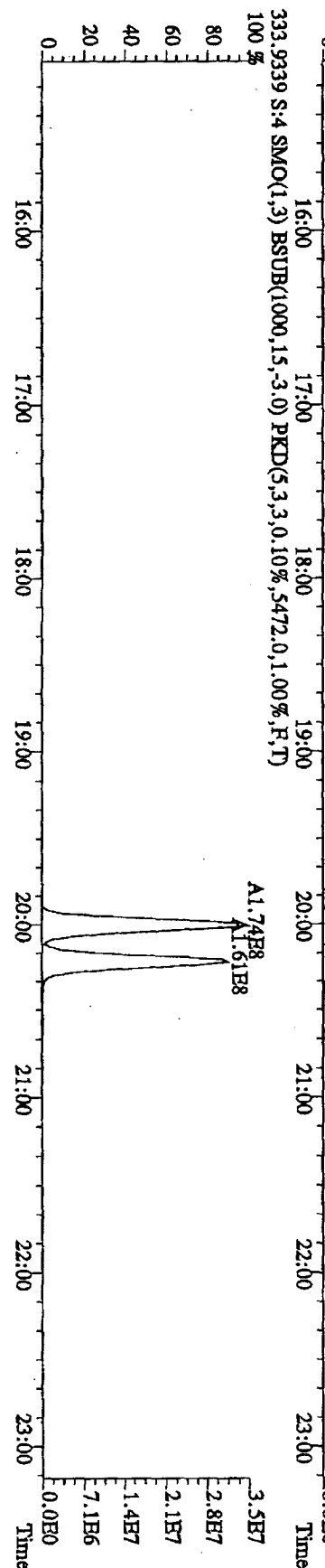
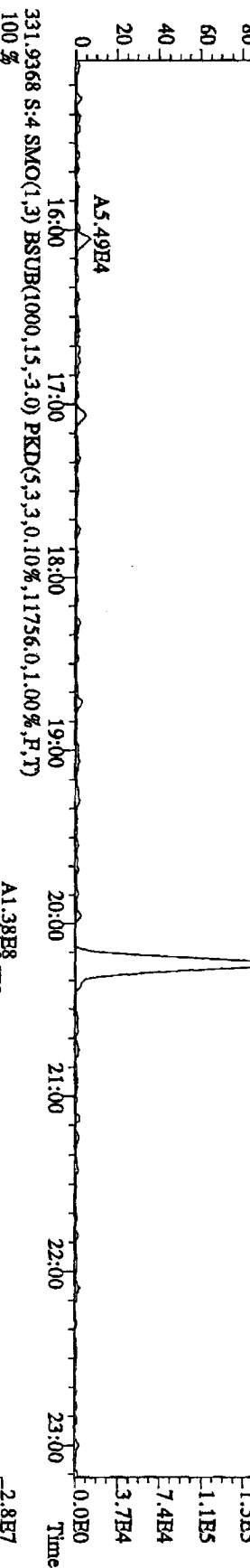
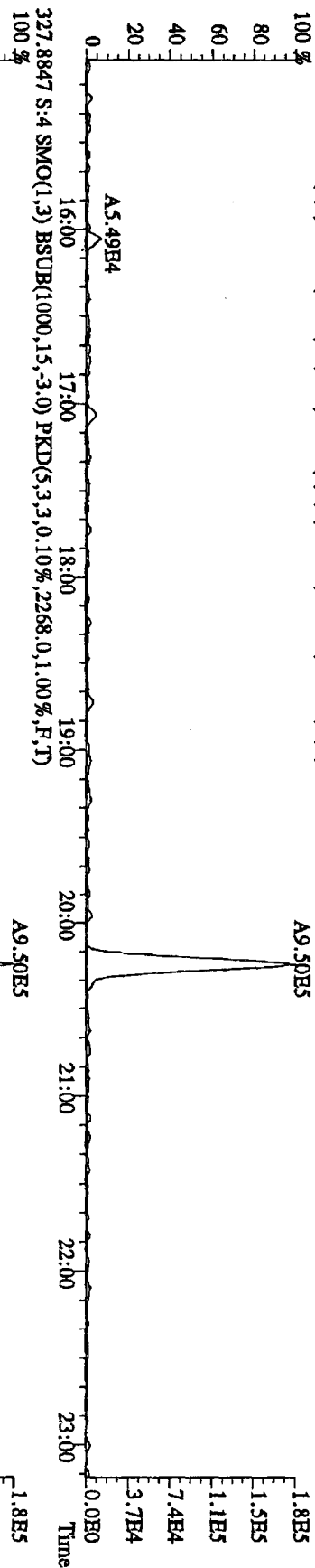
File: 211L10A4D5 #1-541 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#4 Text: ST0721A :CS-1 10DXKN342 Exp: DIOXINRES  
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2036,0,1.00%,F,T) 100% A8.64E5



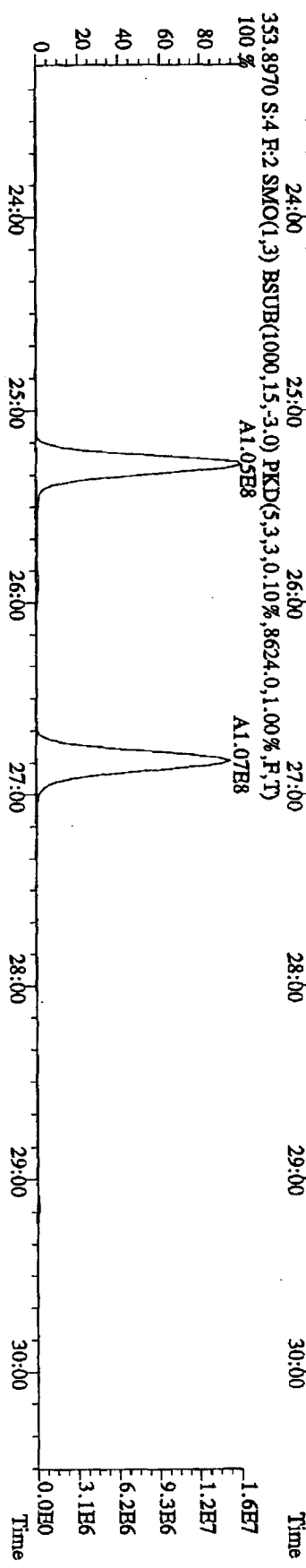
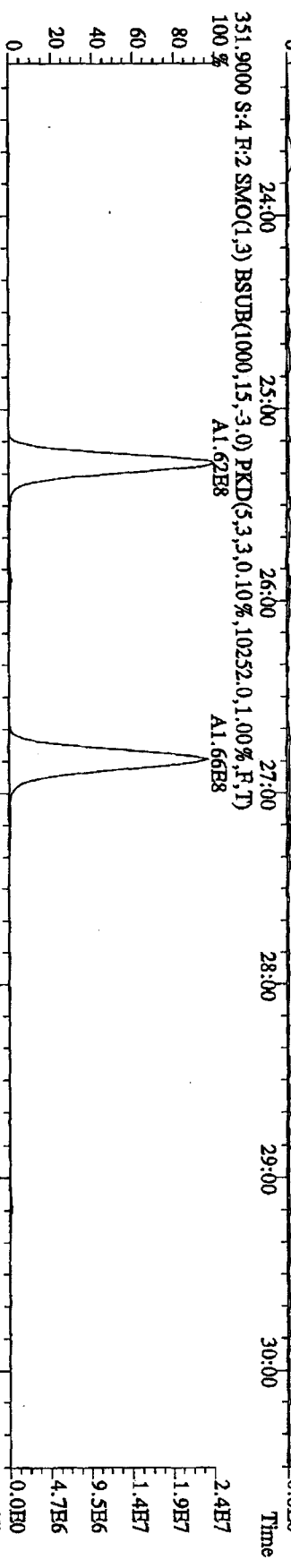
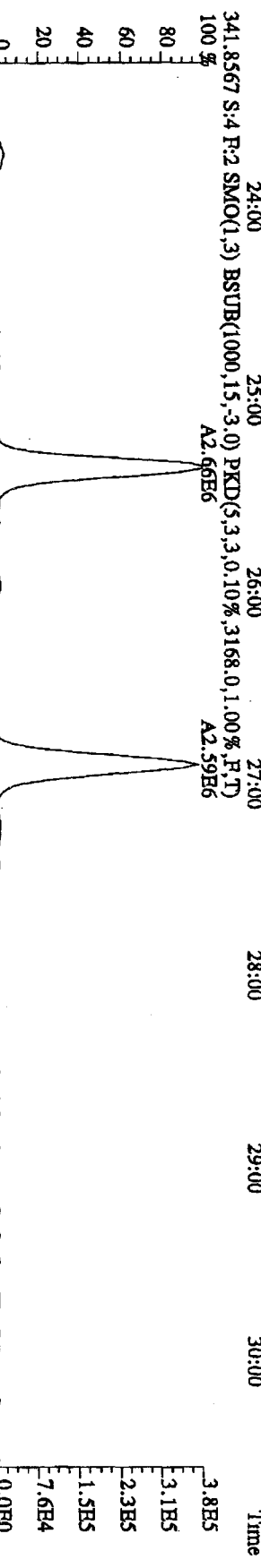
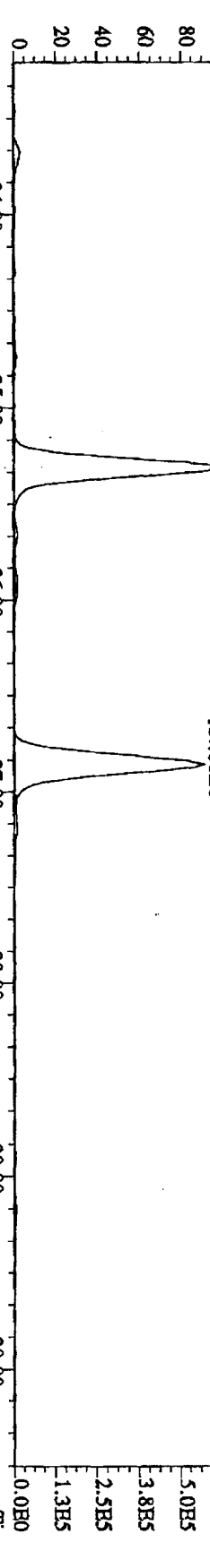
File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES  
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1868,0,1,00%,F,T)



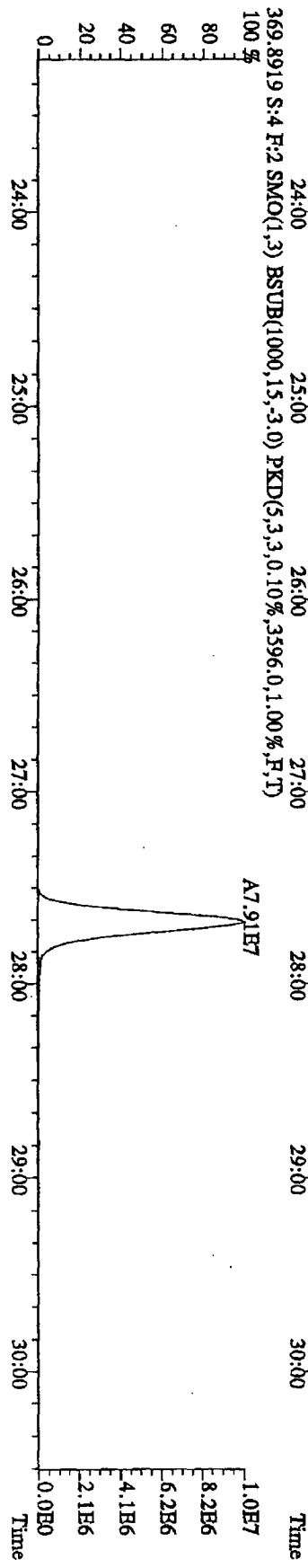
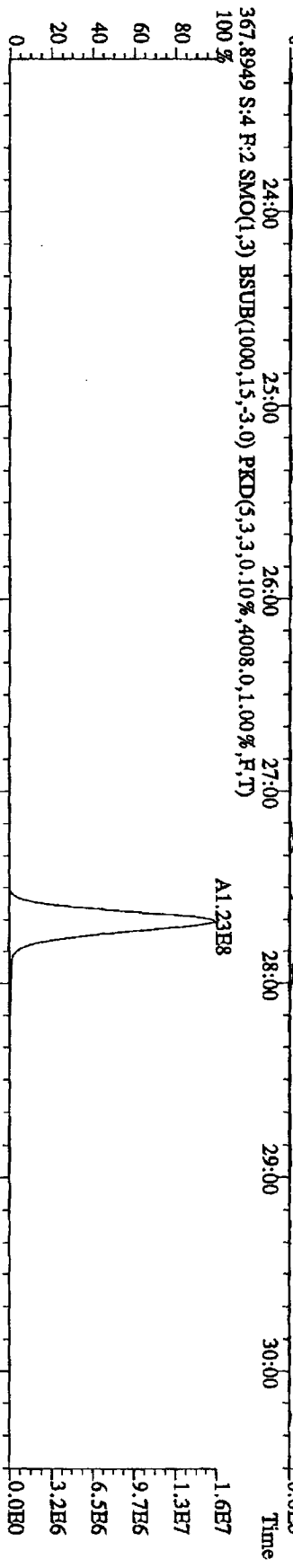
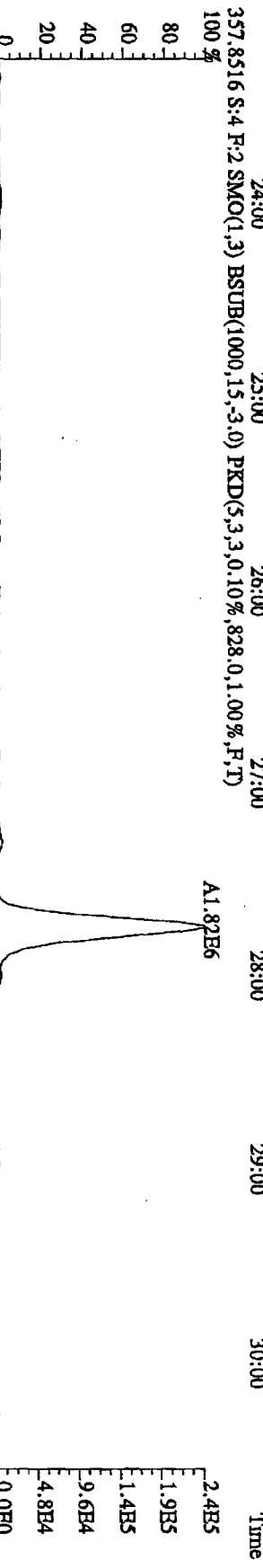
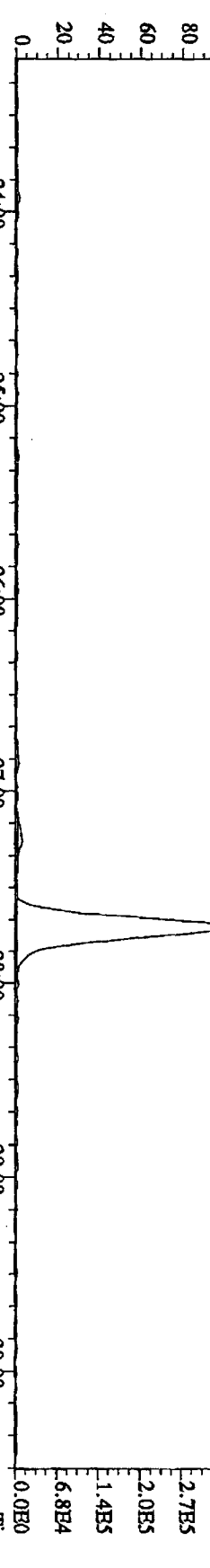
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES  
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2268,0,1,00%,F,T) 100%



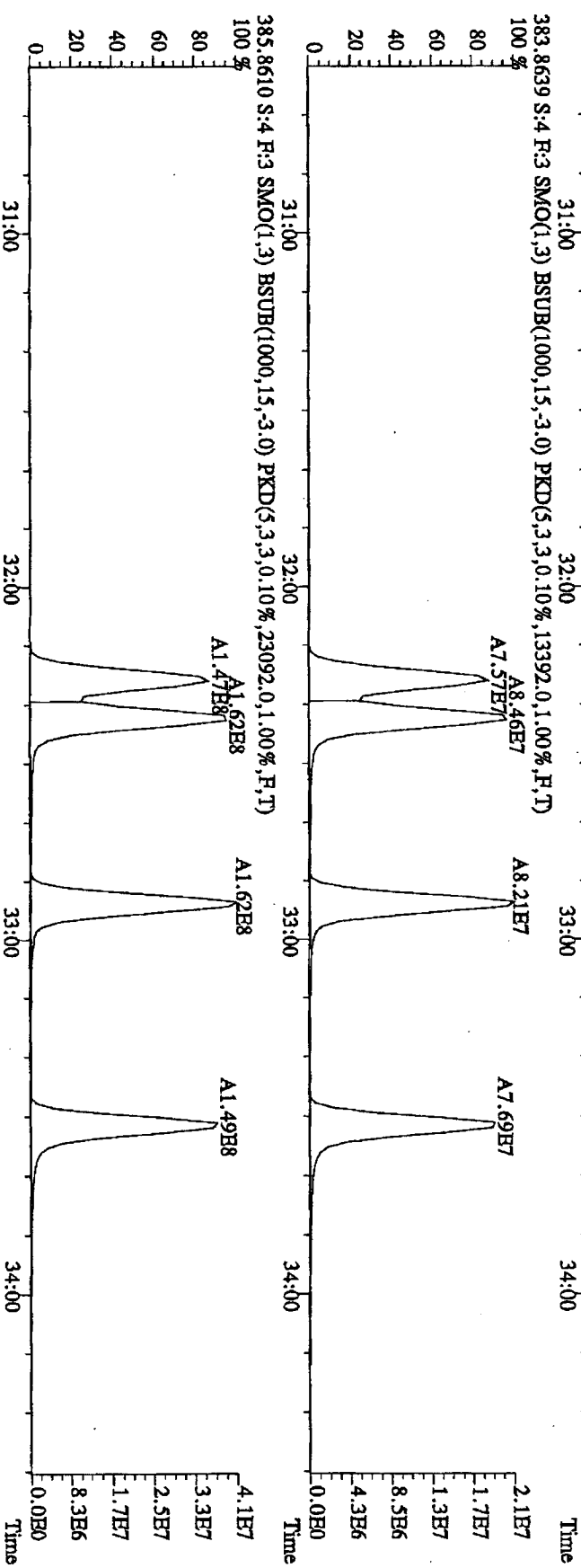
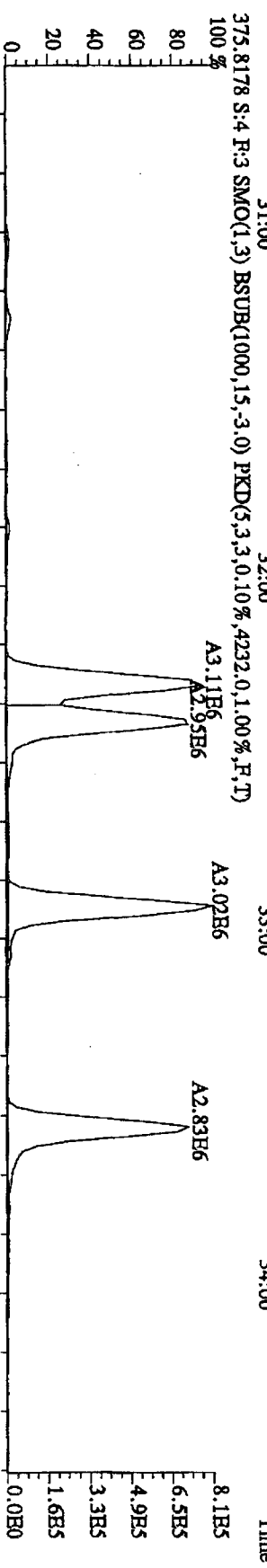
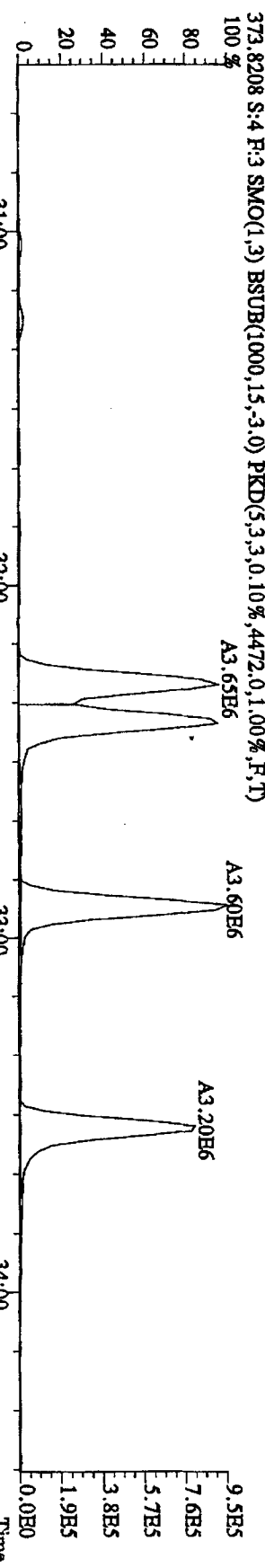
File: 21JUL10A4D5 #1-469 Acq: 21-JUL-2010 16:48:00 GC FI+ Voltage SIR Autospec-UltimaB  
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES  
 339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2180,0,1,100%,F,T)  
 100%



File: 21JUL10A4D5 #1-469 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage: SIR Autospec-UltimaR  
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES  
 355.8546 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2312.0,1.00%,F,T) 100%

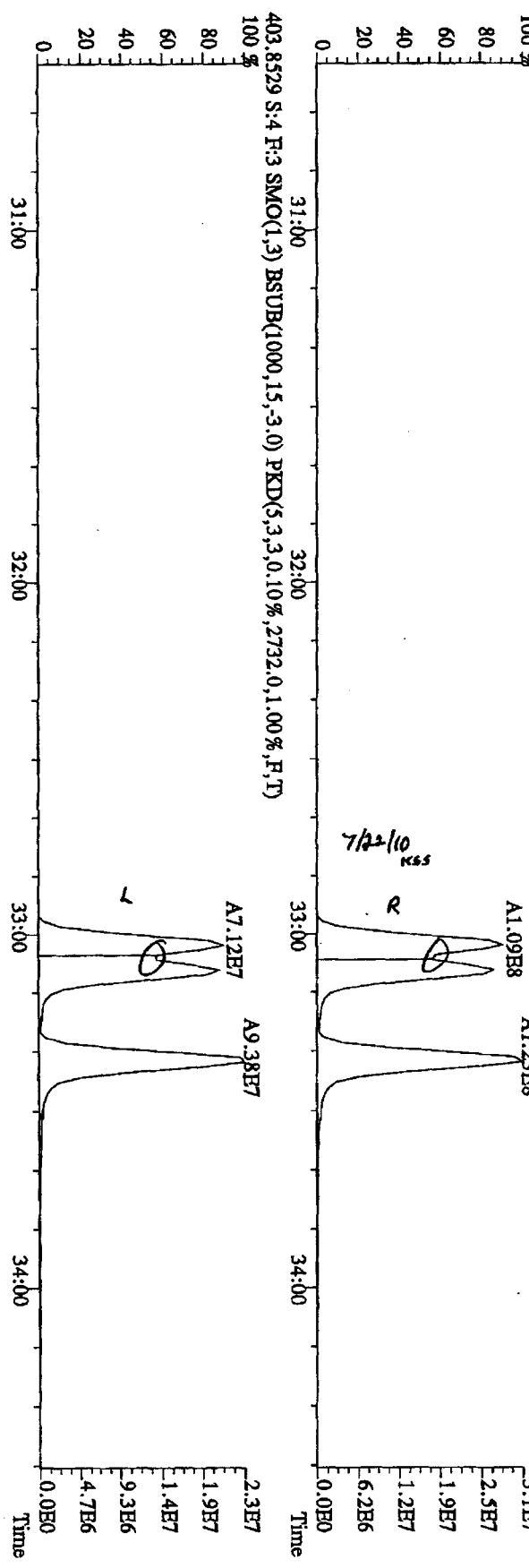
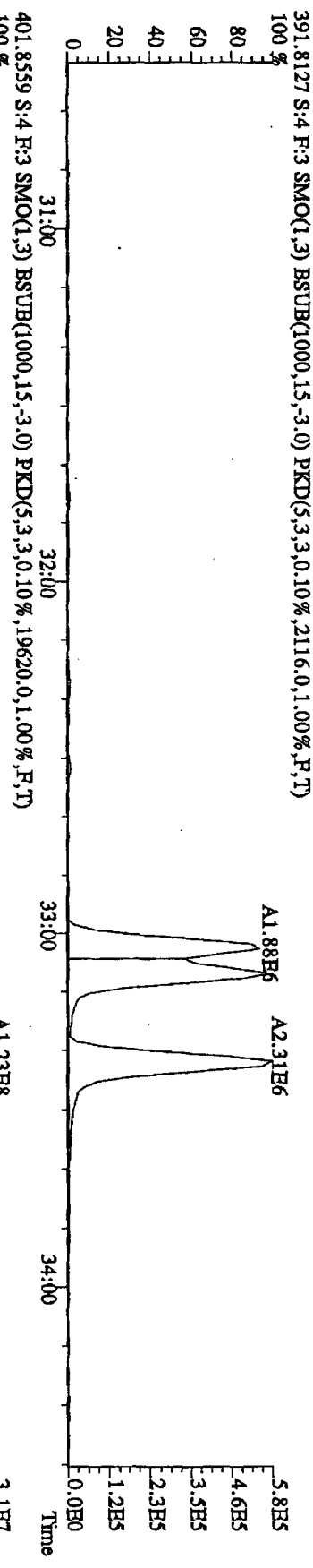
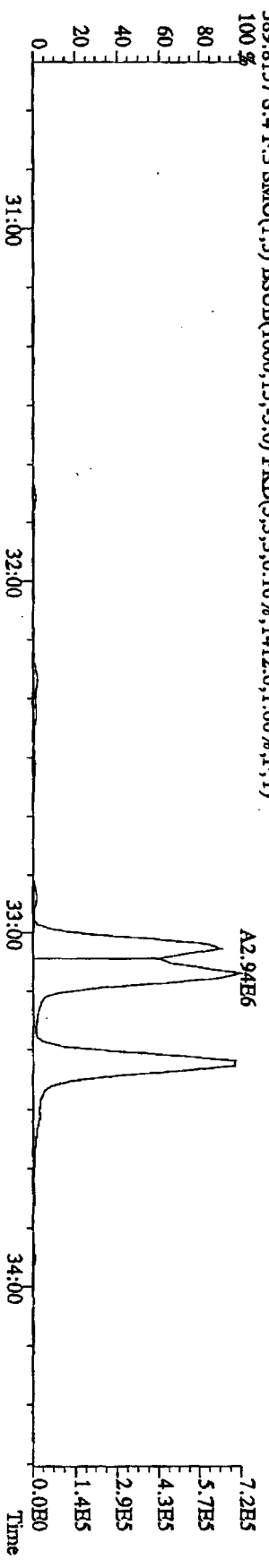


File:211L10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES



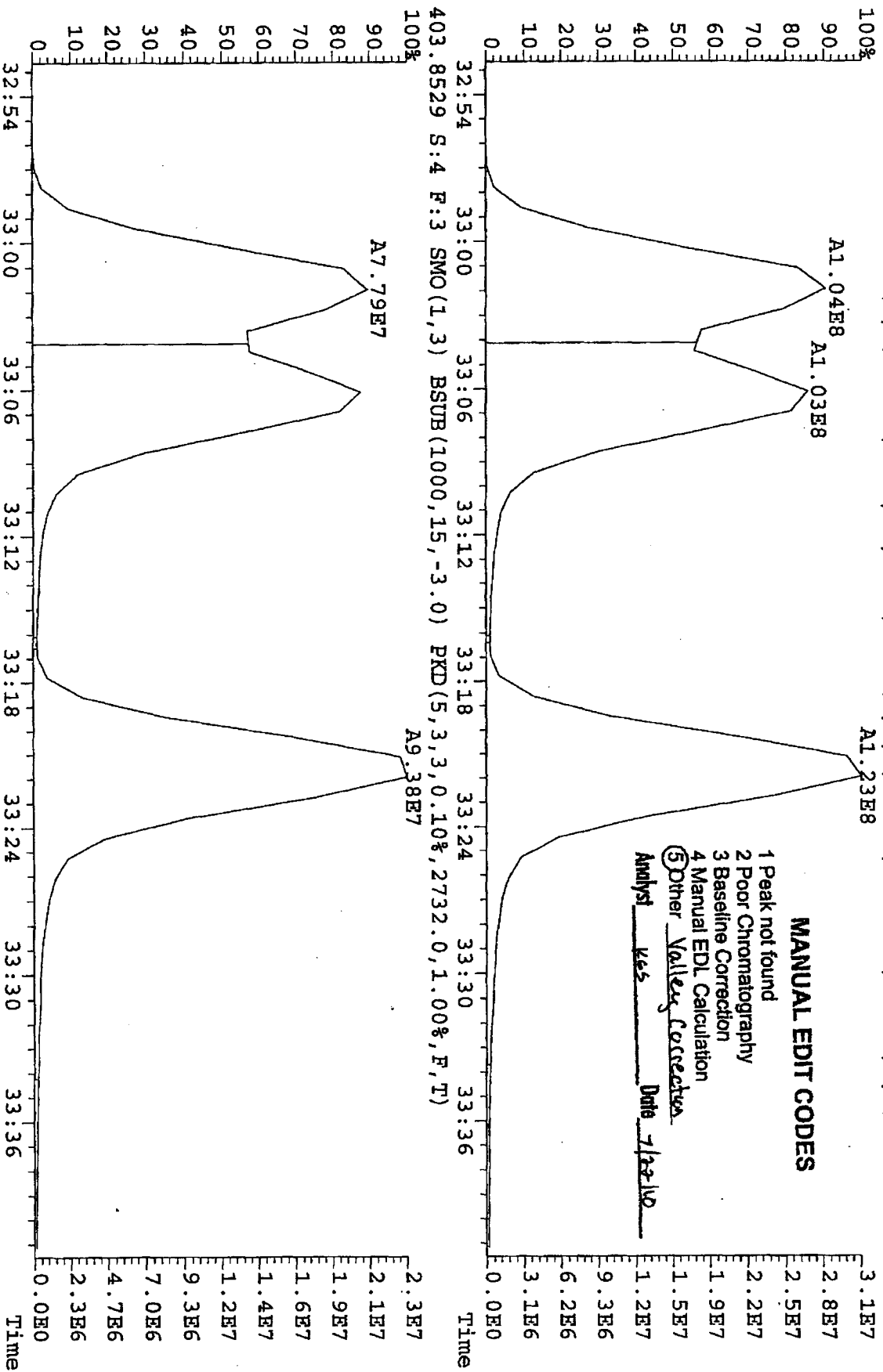


File:21JL10A4D5 #1-287 Acq:21-JUL-2010 16:48:00 GC EI+ Voltage 51V Autospec-Ultimah  
 Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES  
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1412,0,1,00%,F,T) 100%

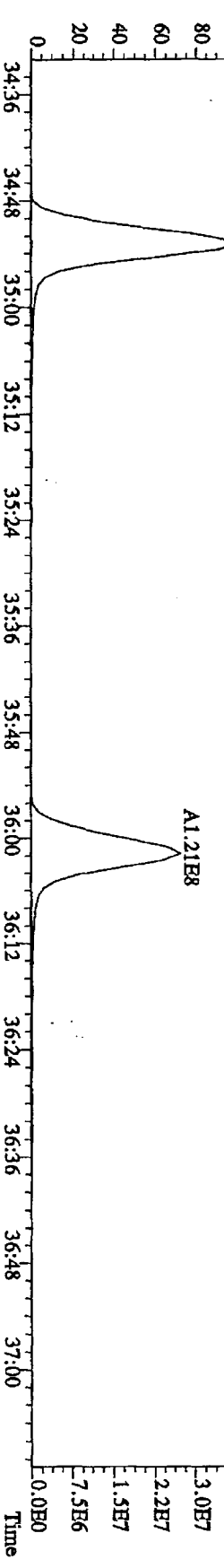
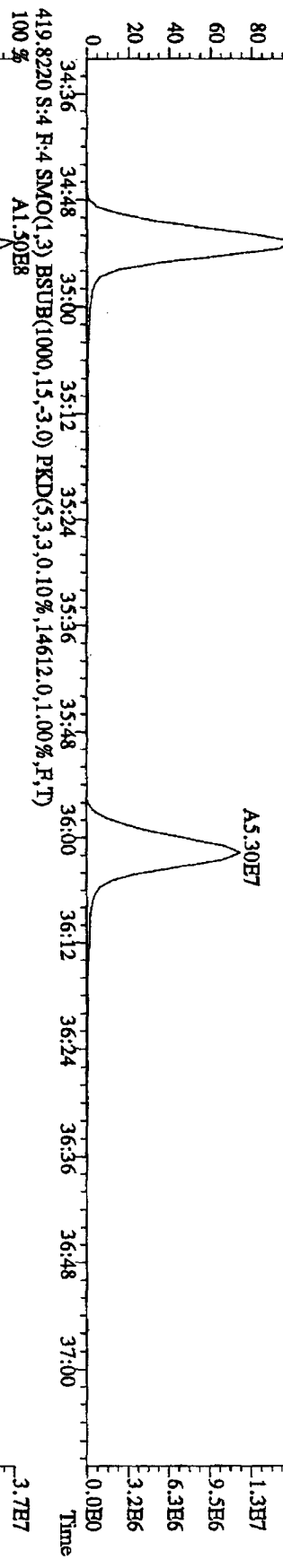
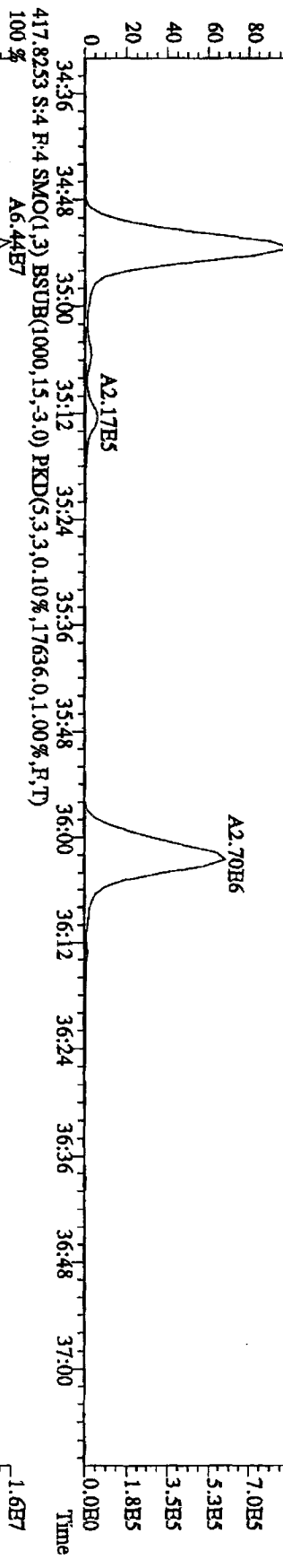
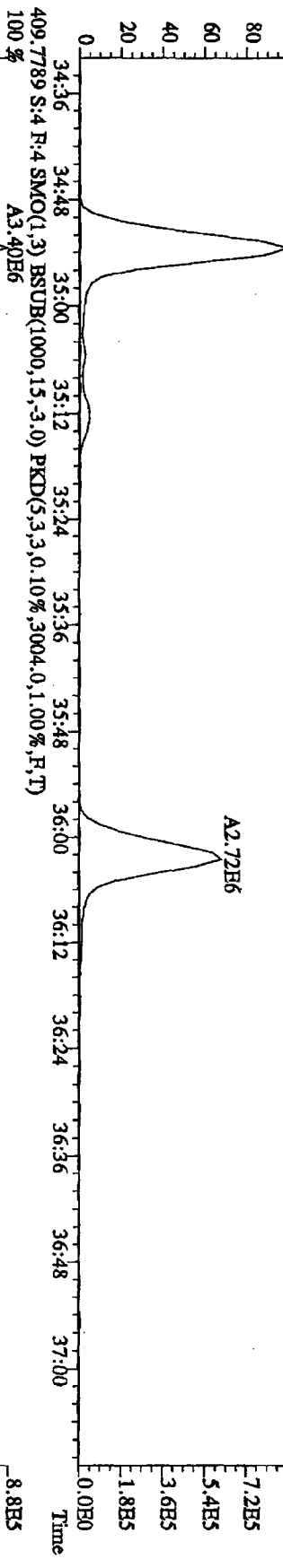


File: 21JUL10A4D5 #1-287 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#4 Text: ST0721A : CS-1 10DXN342 Exp: DIOXINRES  
 401.8559 S: 4 F: 3 SMO(1, 3) BSUB(1000, 15, -3.0) PKD(5, 3, 3, 0.10%, 19620.0, 1.00%, F, T)

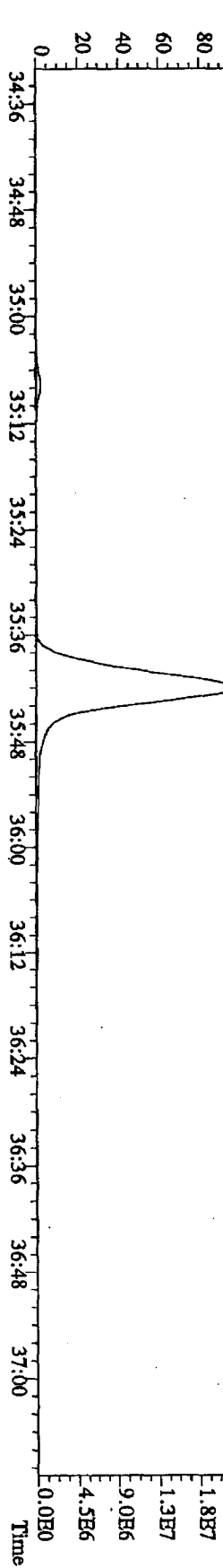
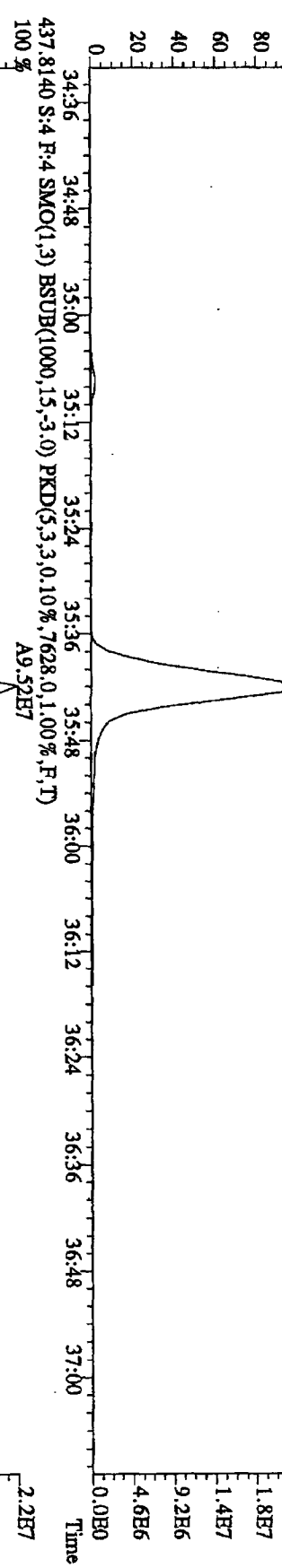
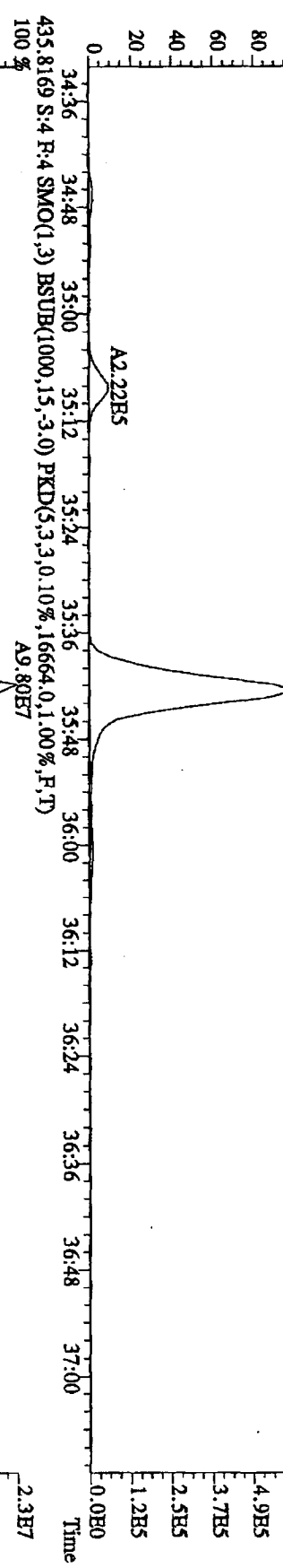
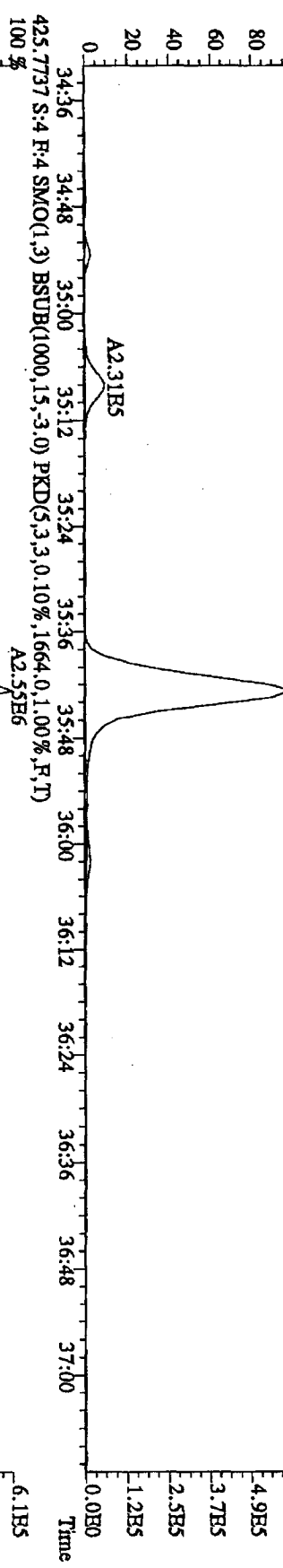
**MANUAL EDIT CODES**  
 1 Peak not found  
 2 Poor Chromatography  
 3 Baseline Correction  
 4 Manual EDL Calculation  
 5 Other Valley Correction  
 Analyst kes Date 7/22/10



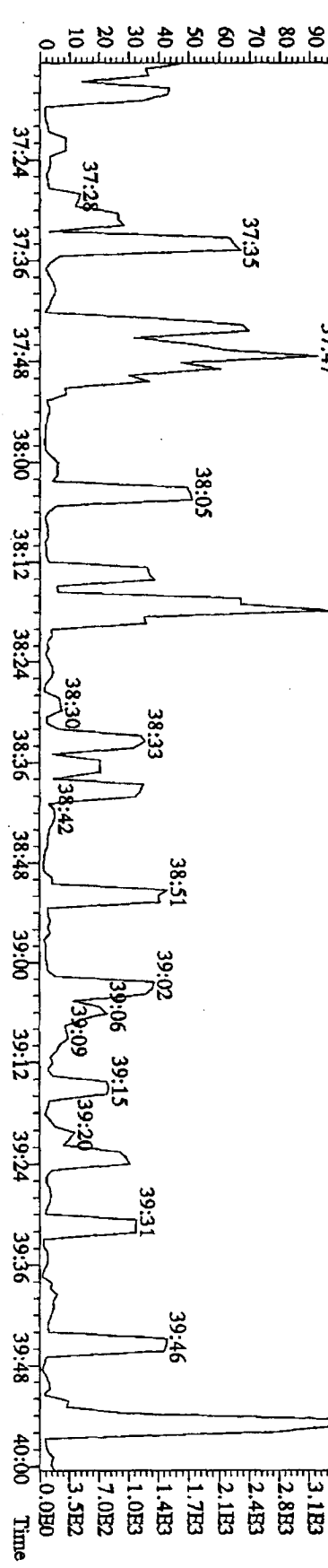
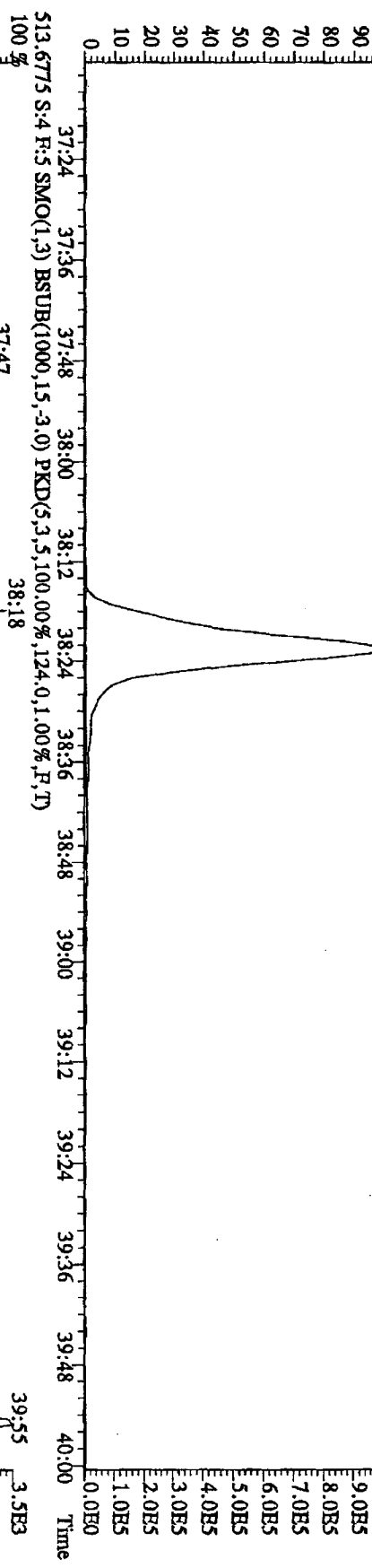
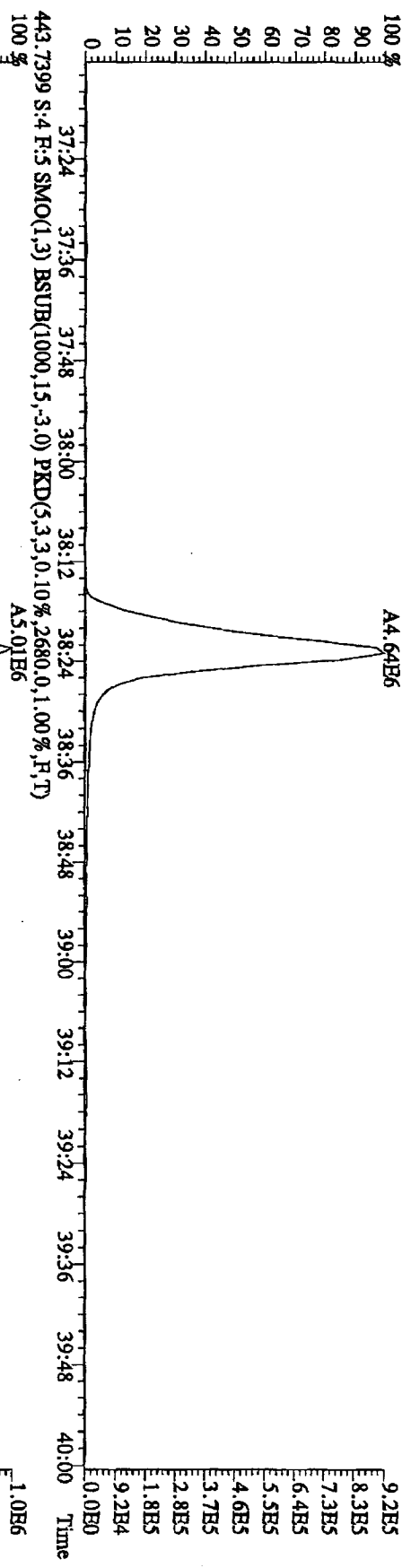
File:21JUL10AA4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC HI+ Voltage SIR Autospec-Ultimate  
 Sample#4 Text:ST0721A :CS-1 10DXN342 Exp:DIOXINRES  
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3388.0,1.00%,F,T)  
 100 %



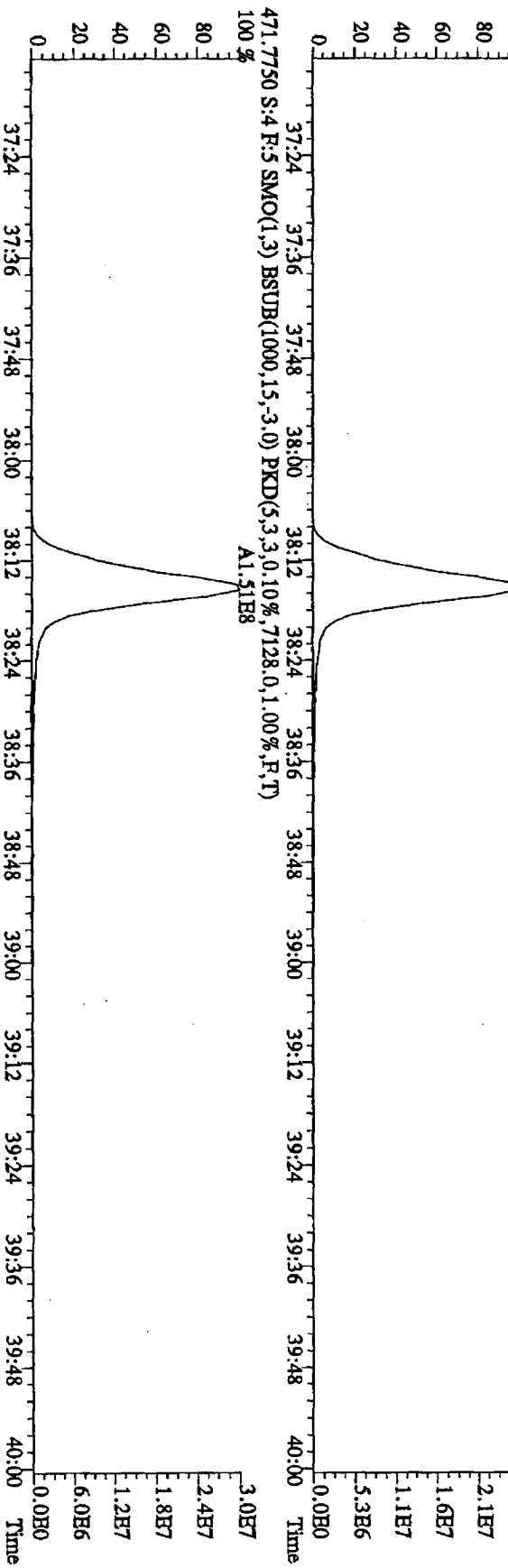
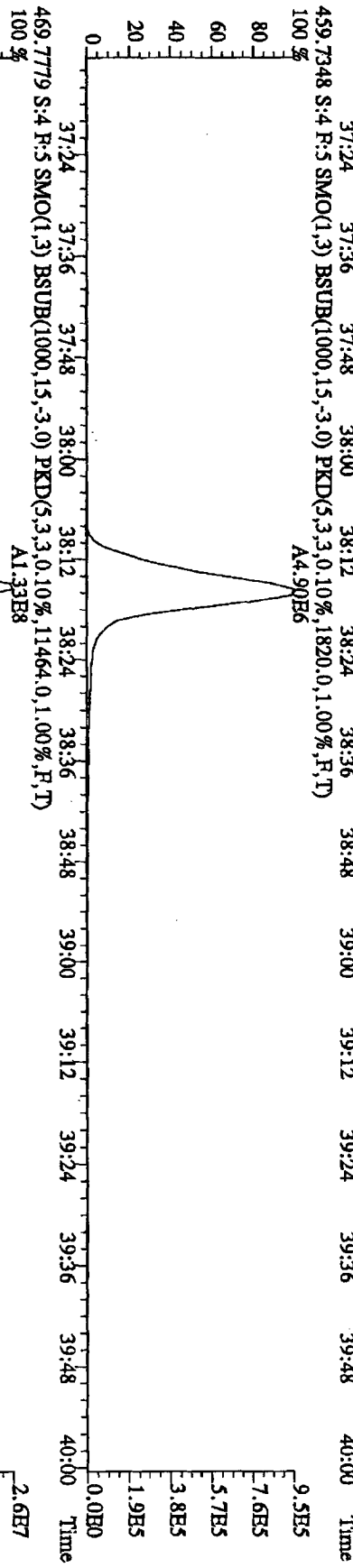
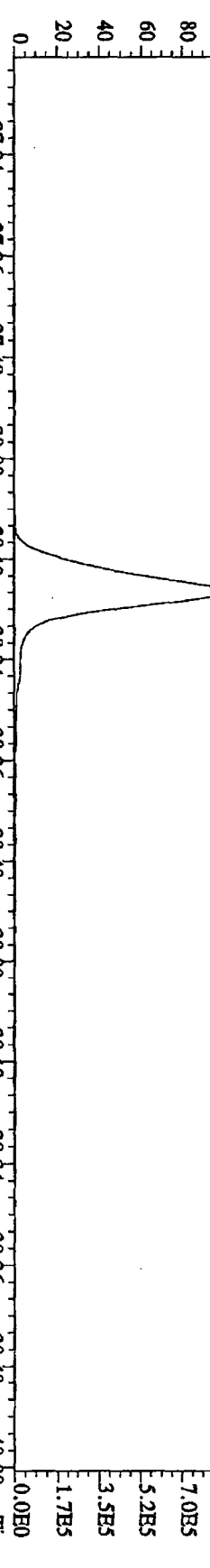
File: 211L10A4D5 #1-201 Acq: 21-JUL-2010 16:48:00 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES  
 423.7737 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1728.0,1.00%,F,T)  
 A2.61B6



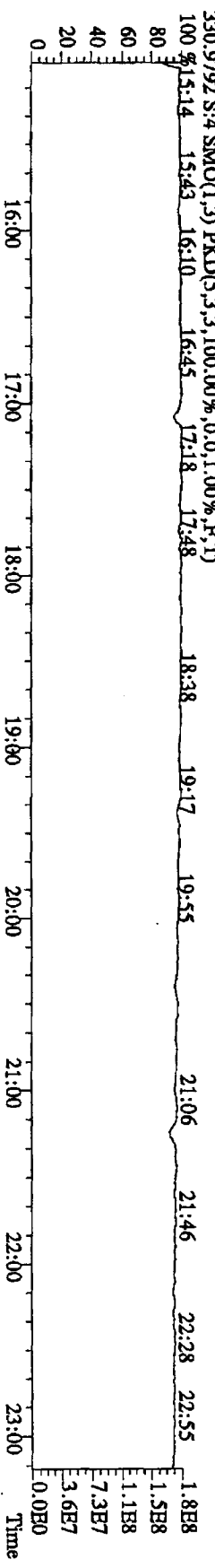
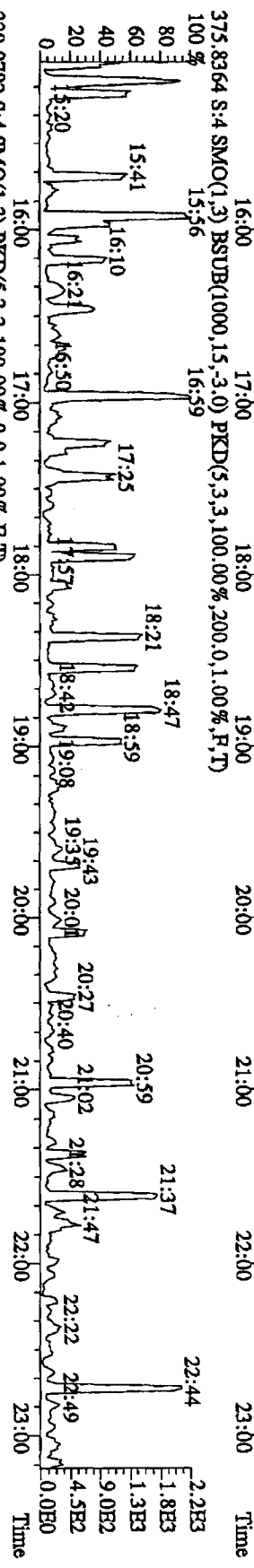
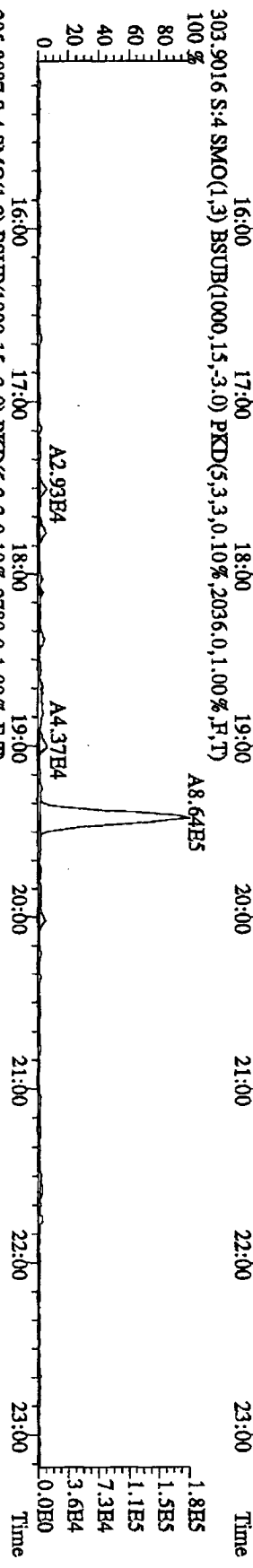
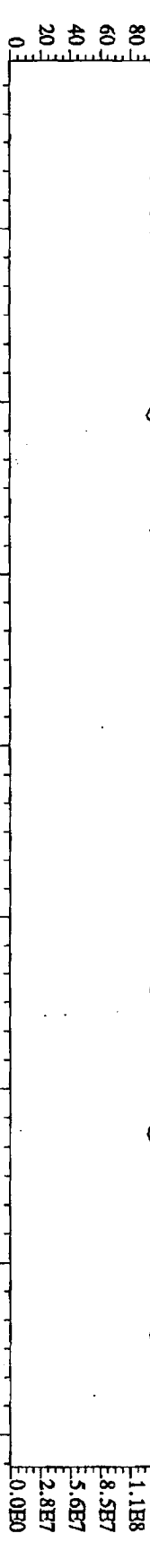
File: 21JUL10A4D5 #1-227 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage: SIR Autospec-UltimaB  
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES  
 441.7428 S:4 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2692,0,1,00%,F,T)  
 100% A4.64E6



File: 211L10A4D5 #1-227 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage: SIR Autospec-Ultimate  
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES  
 457.7377 S:4 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1336.0,1.00%,F,T)  
 100% A4.90E6



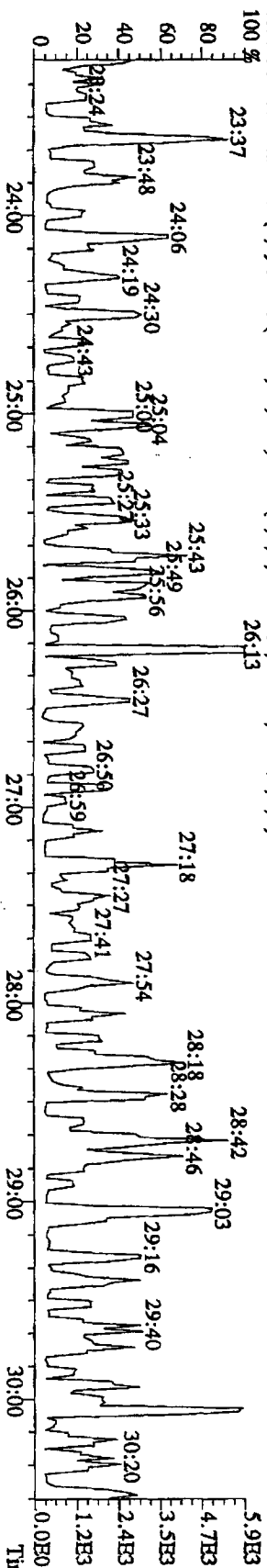
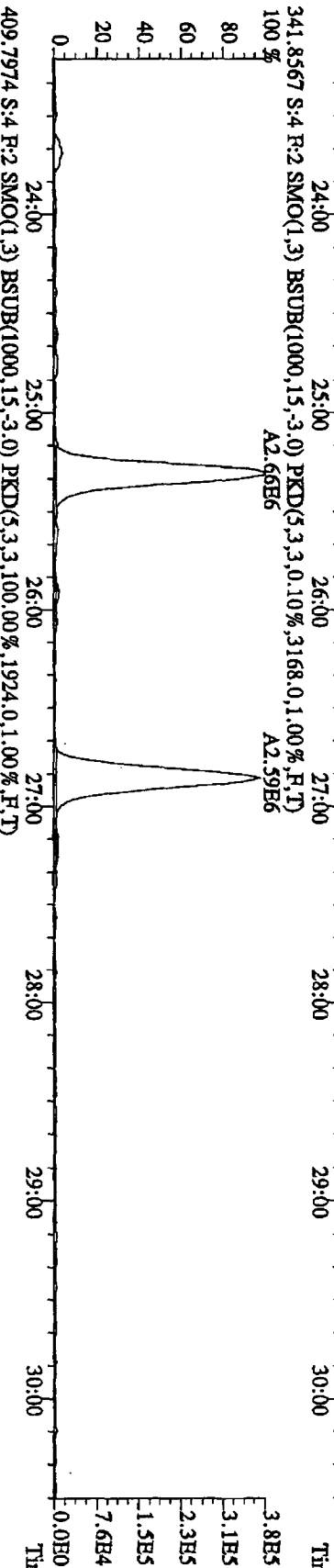
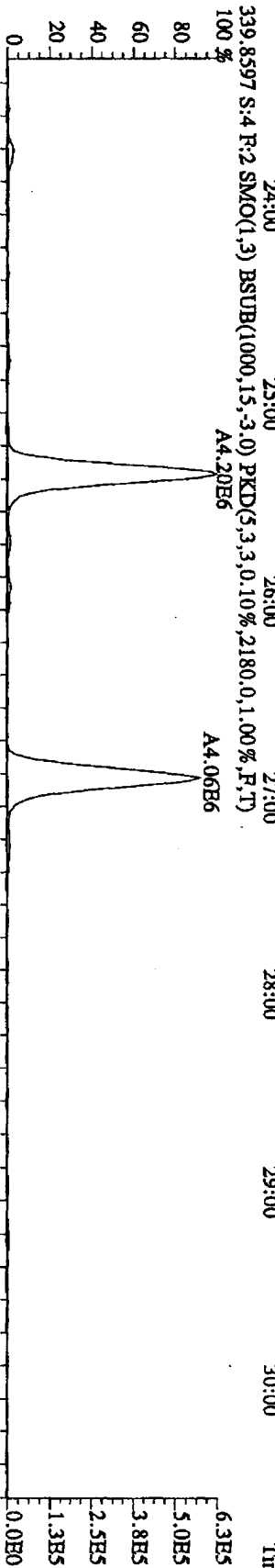
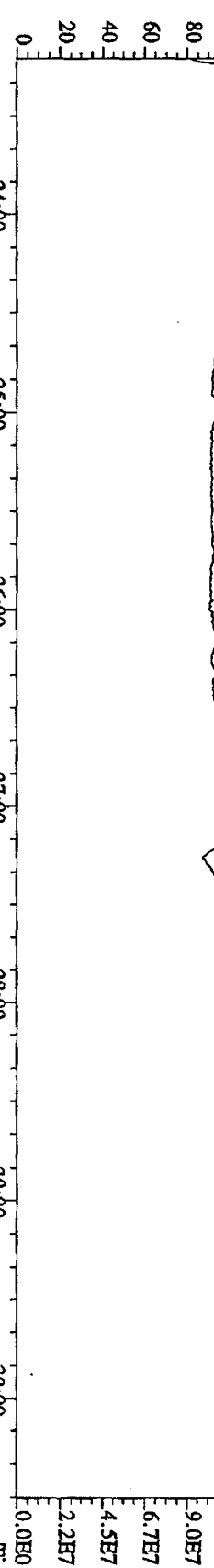
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UHimaB  
 Sample#4 Text: ST0721A :CS-1 10DXN342 Exp: DIOXINRES  
 292.9825 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)  
 15:26 15:26 16:24 17:29 18:46 19:15 19:49 20:44 21:10 22:00 22:29 22:57



File: 211L10A4D5 #1-469 Acq: 21-JUL-2010 16:48:00 GC EI+ Voltage SIR Autospec-UltimaB

Sample#4 Text: ST0721A :CS-110DXN342 Exp: DIOXINRES

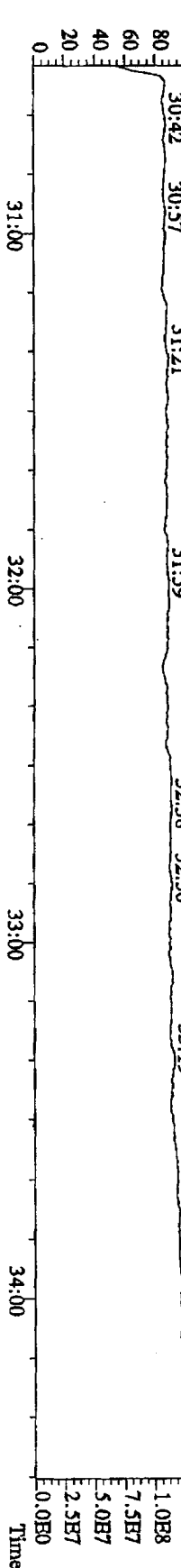
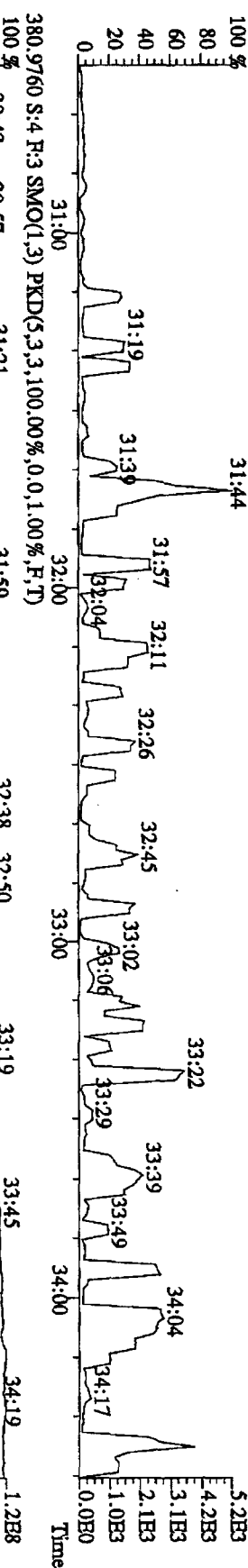
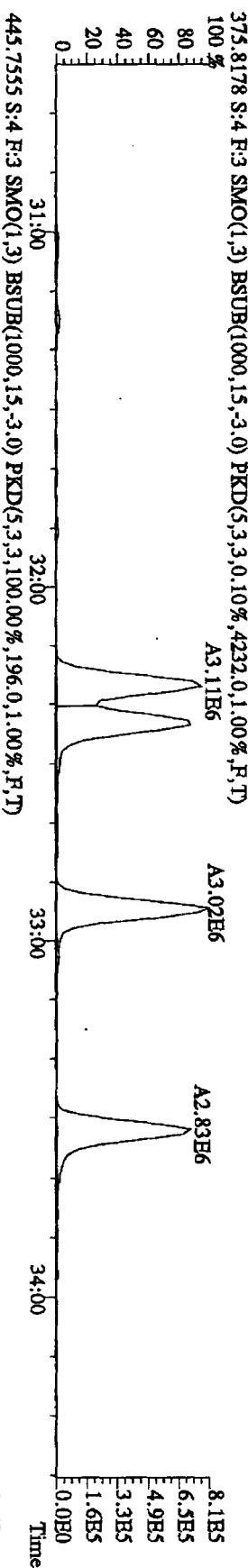
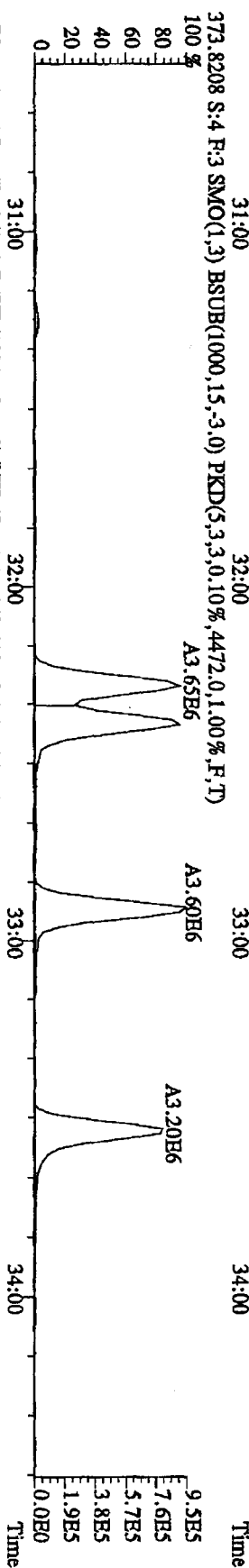
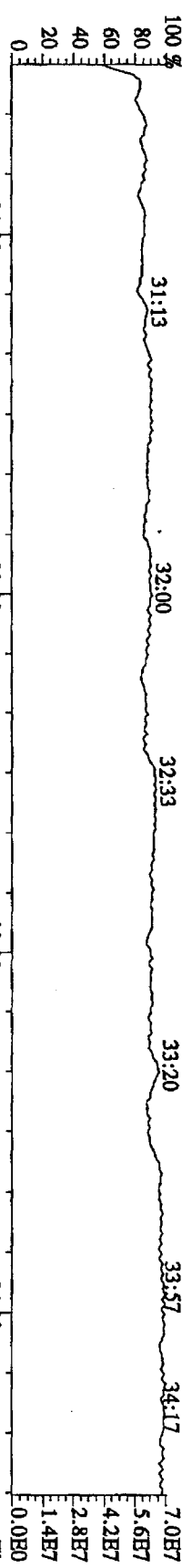
342.9792 S:4 F:2 SMO(1.3) PKD(5.3,3.100.00% 0.0,1.00%,F,T)



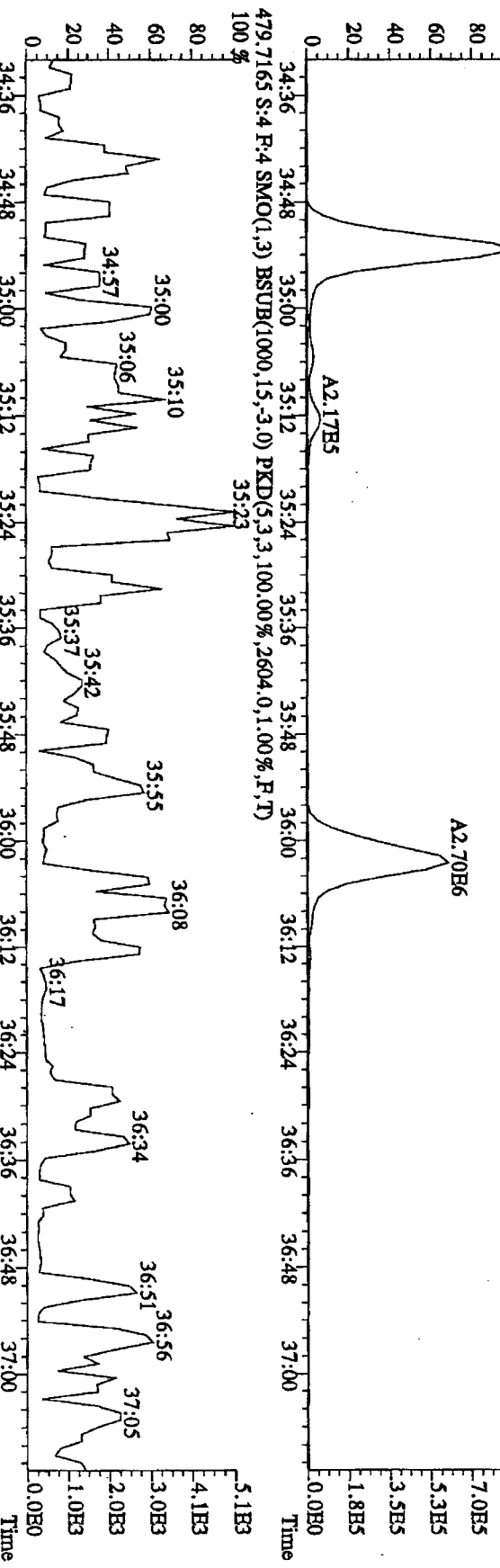
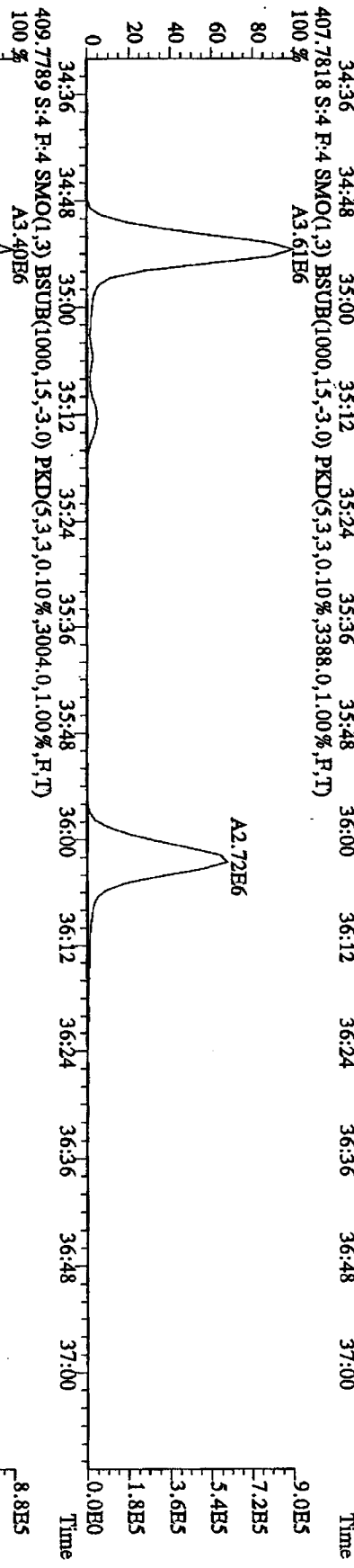
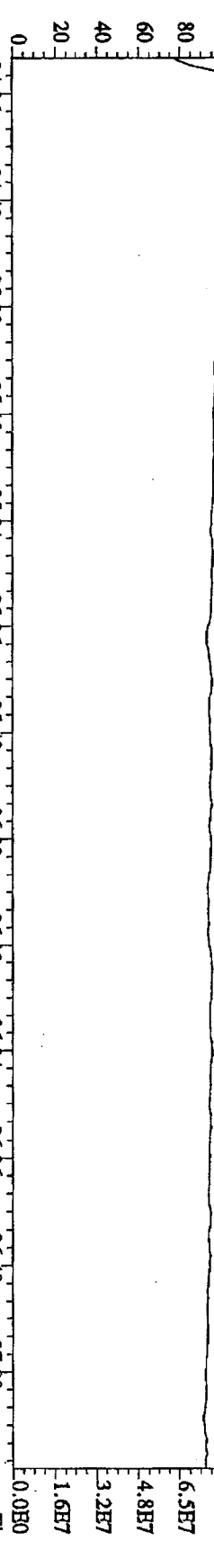


File: 211L10A4D5 #1-287 Acq: 21-JUL-2010 16:48:00 GC HI+ Voltage SIR Autospec-UltimaR

Sample#4 Text: ST0721A : CS-1 10DXN342 Exp: DIOXINRES



File:21JUL10A4D5 #1-201 Acq:21-JUL-2010 16:48:00 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#4 Text:ST0721A :CS-110DXN342 Exp:DIOXINRES  
 430.9728 S:4 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 34:36 34:48 35:00 35:28 35:42 35:56 36:14 36:25 36:42

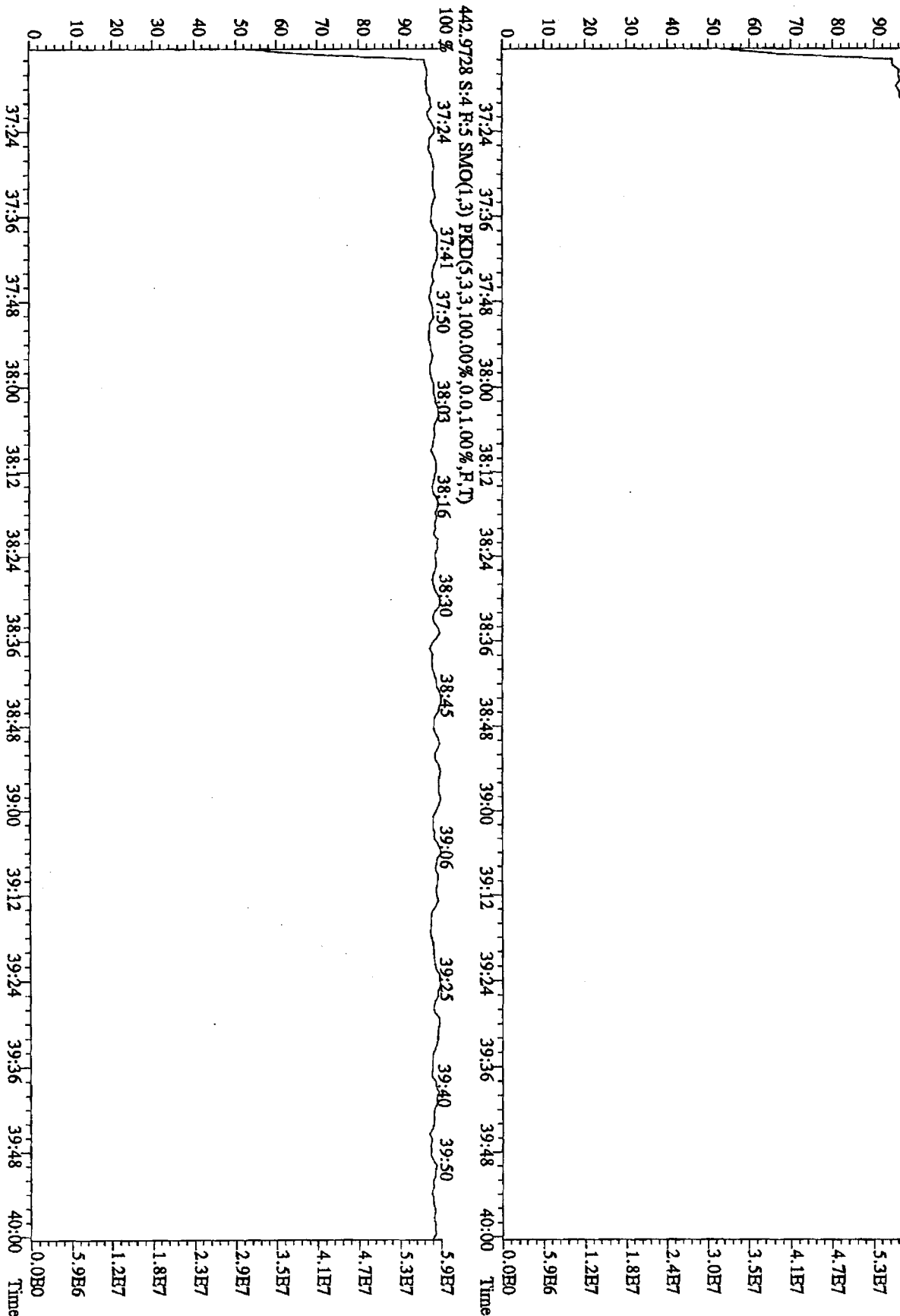


File: 21JUL10A4D5 #1-227 Acq: 21-JUL-2010 16:48:00 GC HI + Voltage SIR Autospec-Ultimate

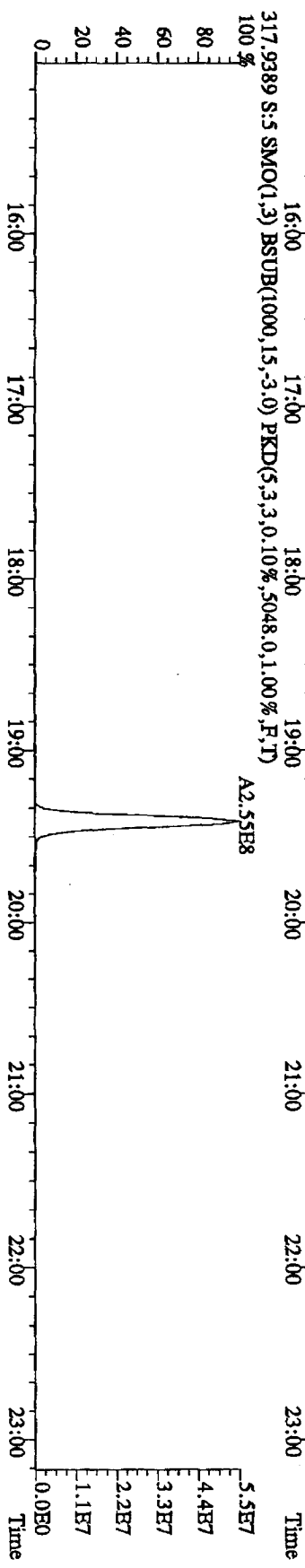
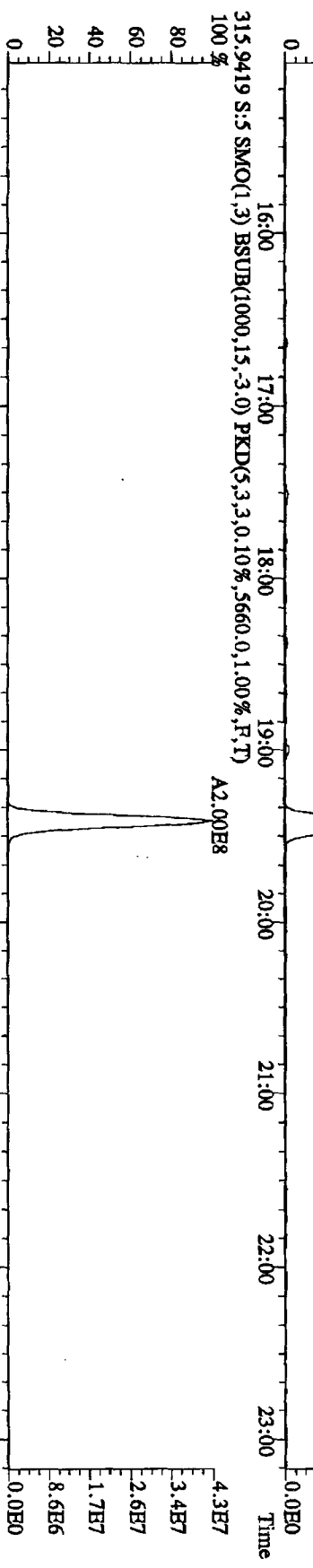
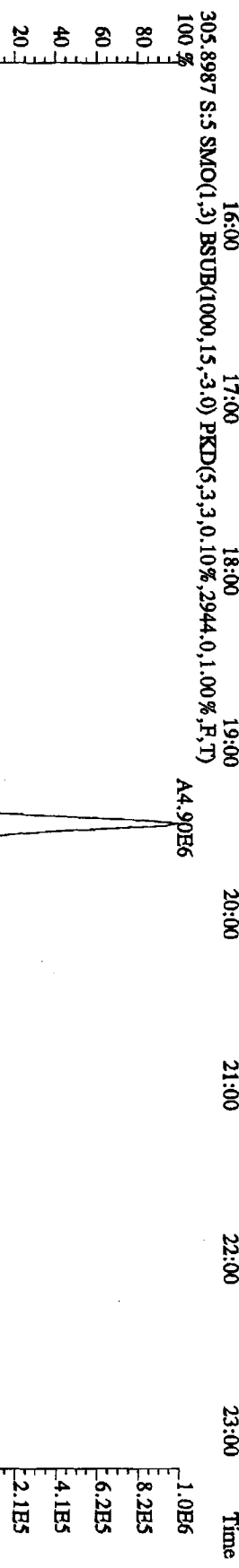
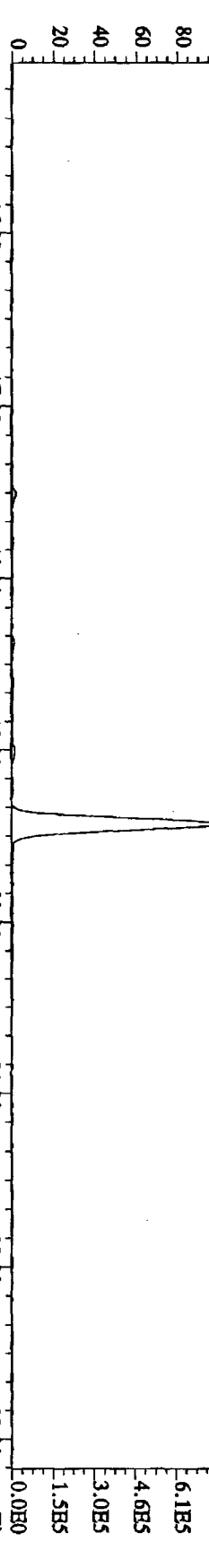
Sample#4 Text: ST0721A : CS-110DXN342 Exp: DIOXINRES

454.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

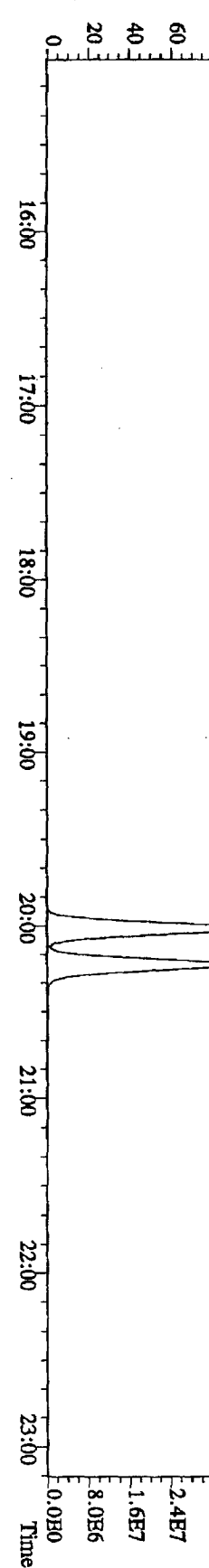
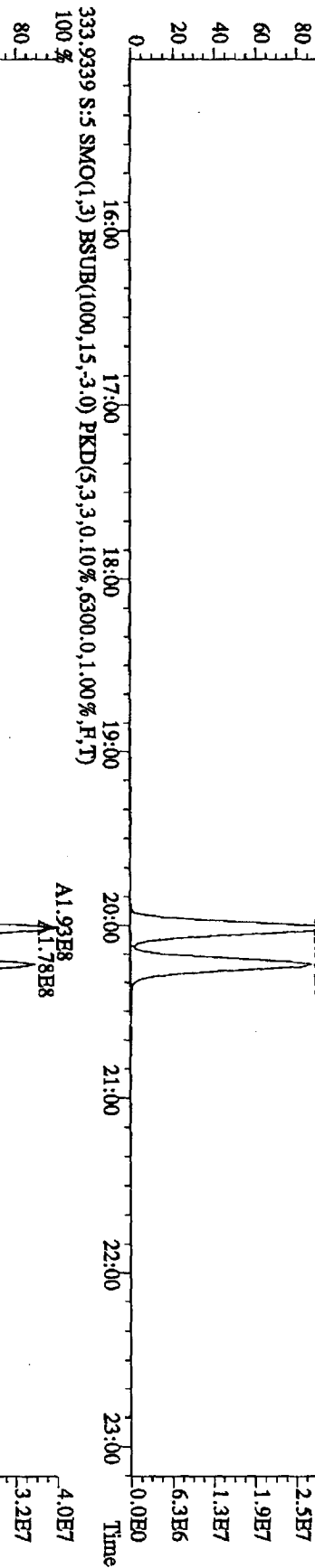
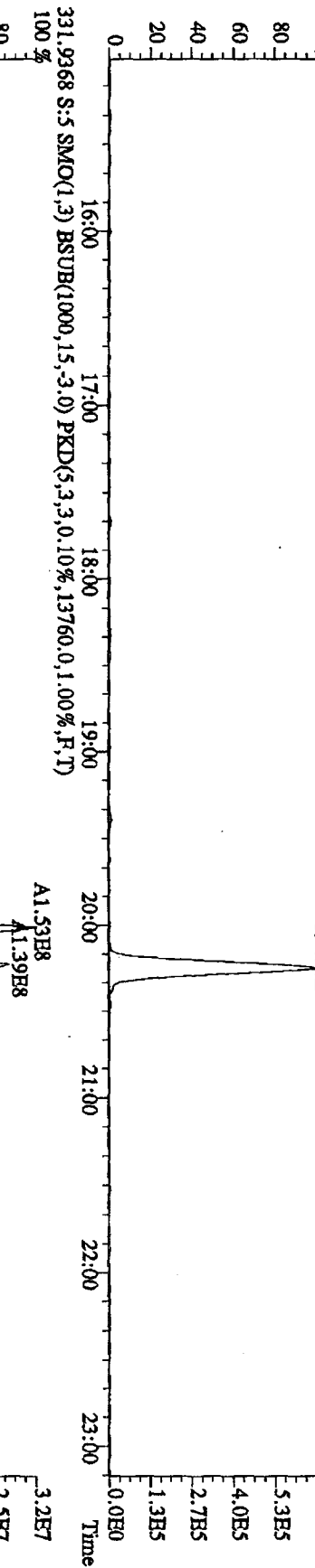
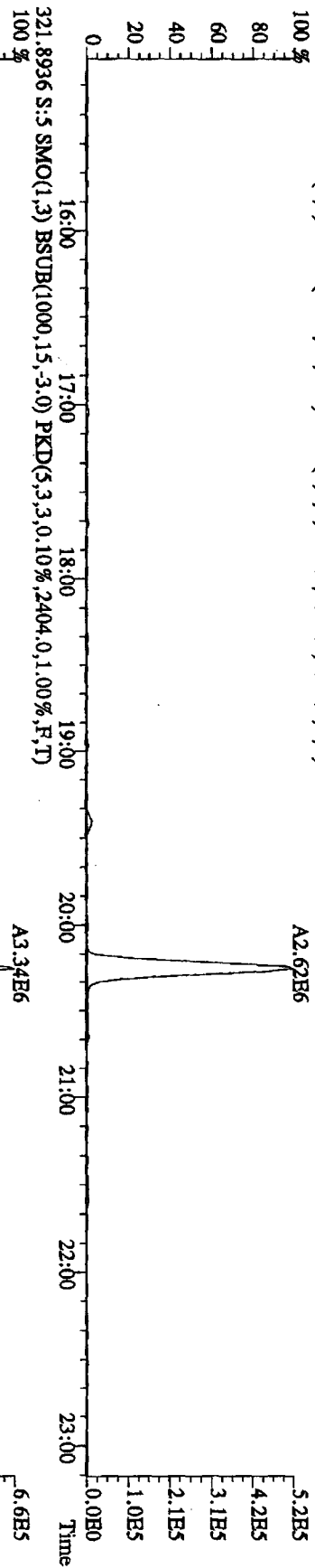
442.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



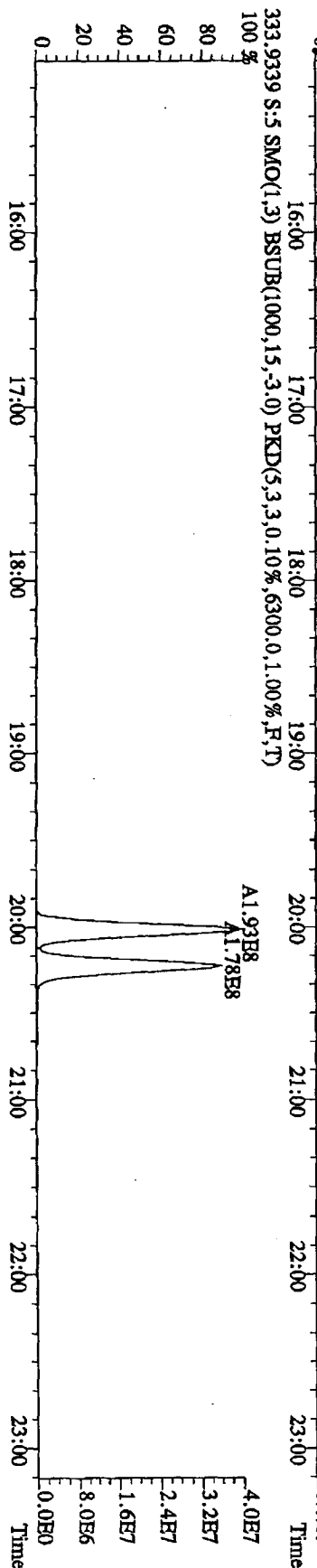
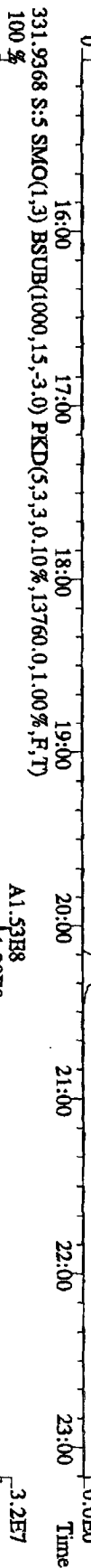
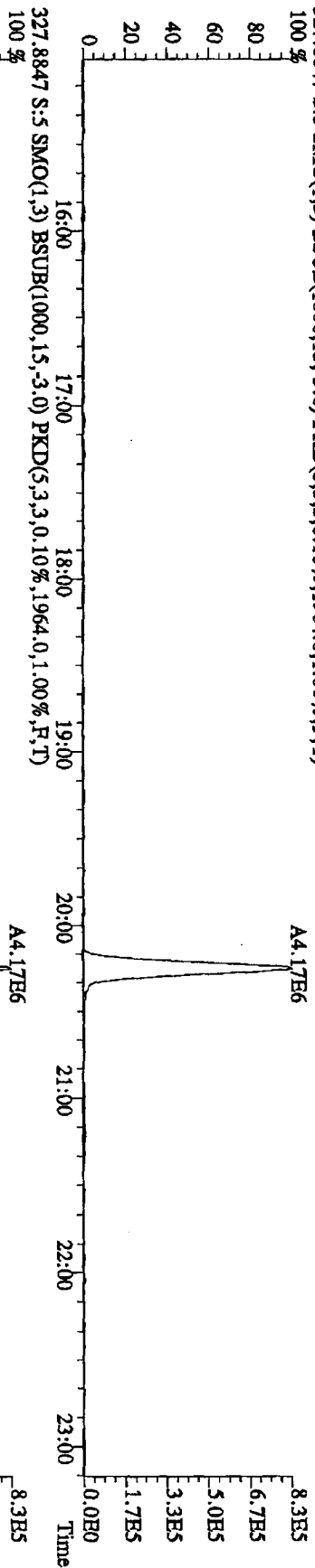
File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES  
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1544.0,1.00%,F,T)



File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#5 Text: ST0721B :CS-2 10DXN334 Exp: DIOXINRES  
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2060,0,1,00%,F,T)

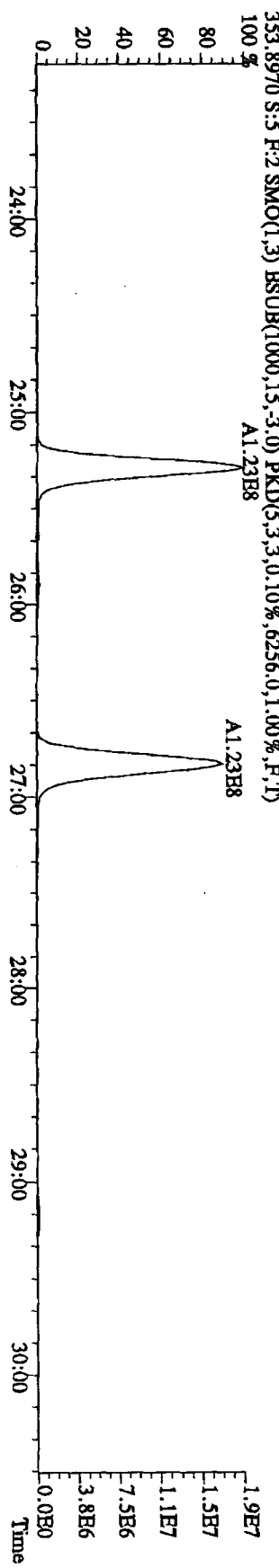
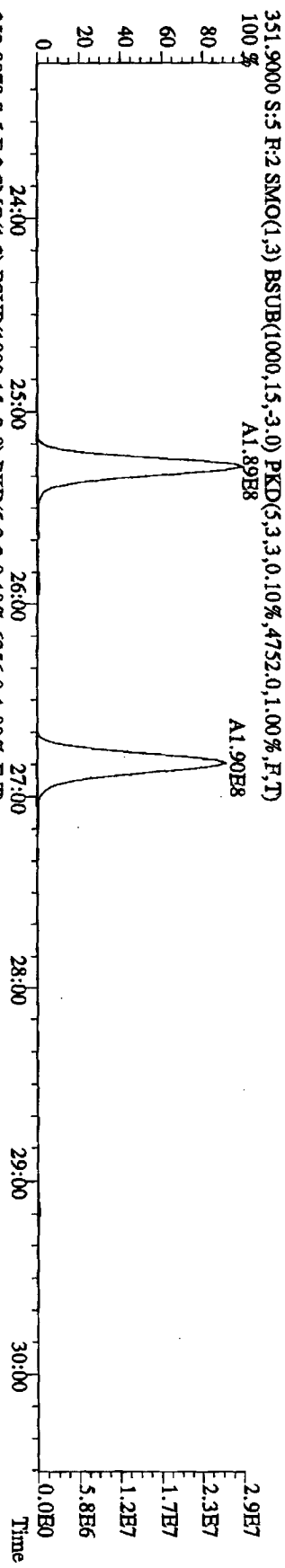
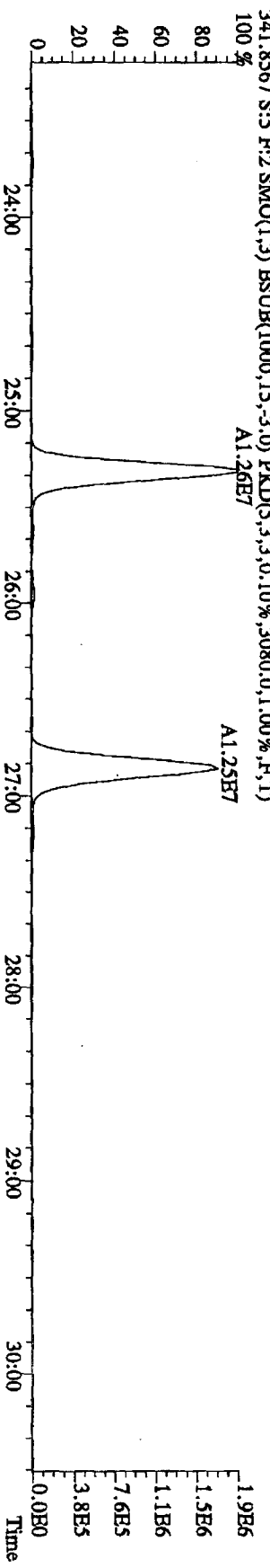
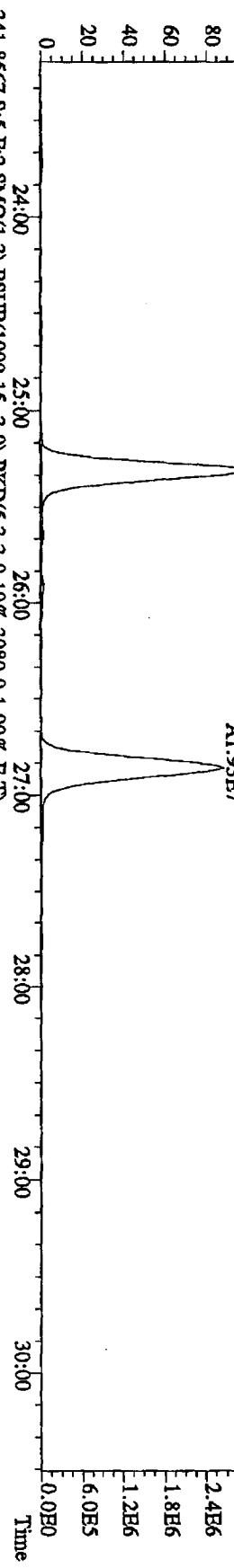


File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES  
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1964,0,1,00%,F,T)

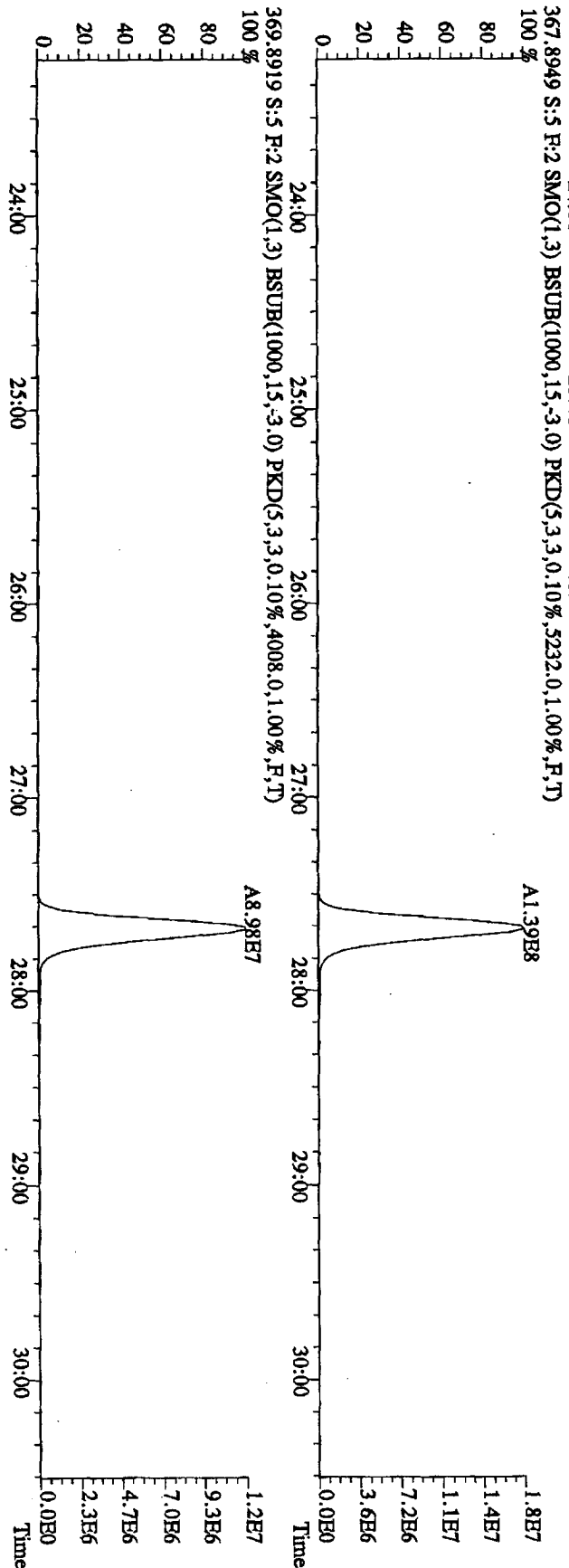
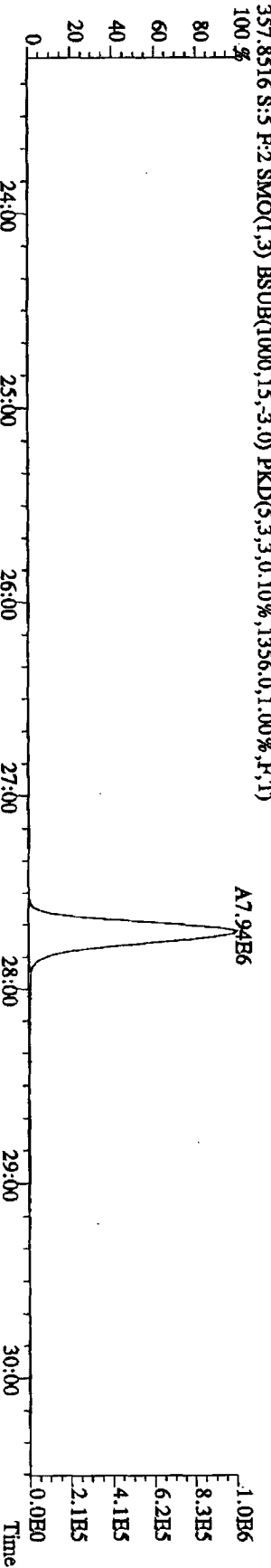
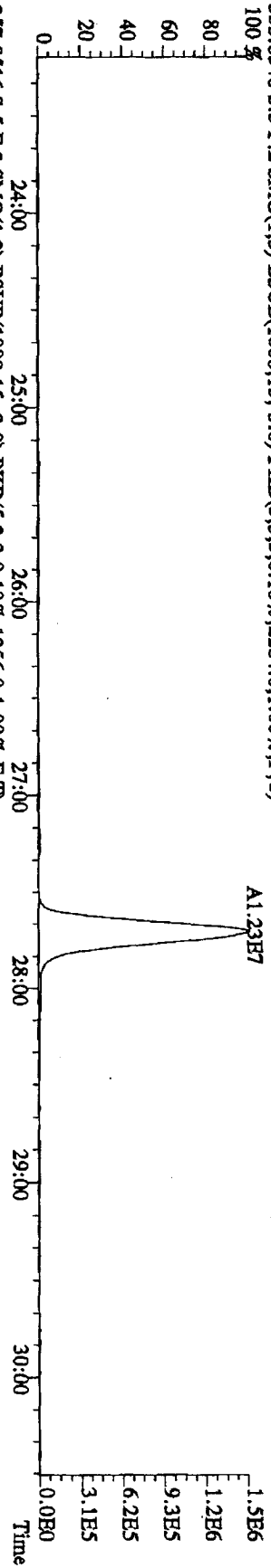


File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 17:33:53 GC EI+ Voltage STR Autospec-Ultimate

Sample#5 Text: ST0721B :CS-2 10DXN334 Exp: DIOXINRES



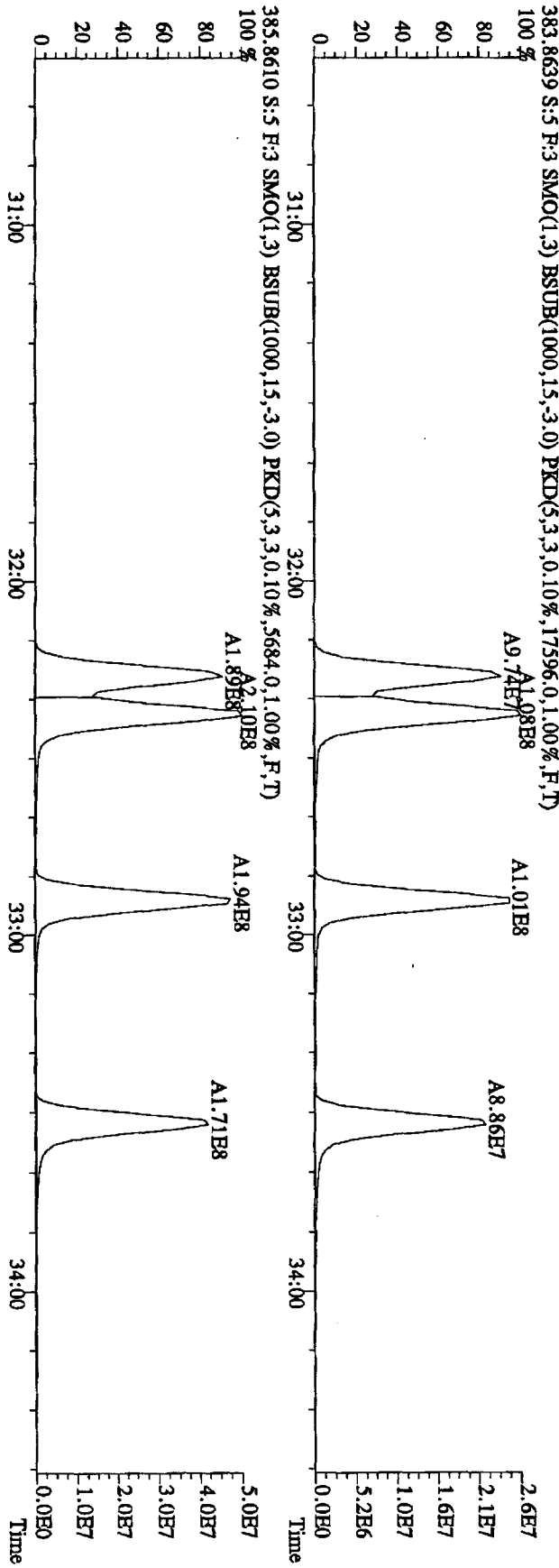
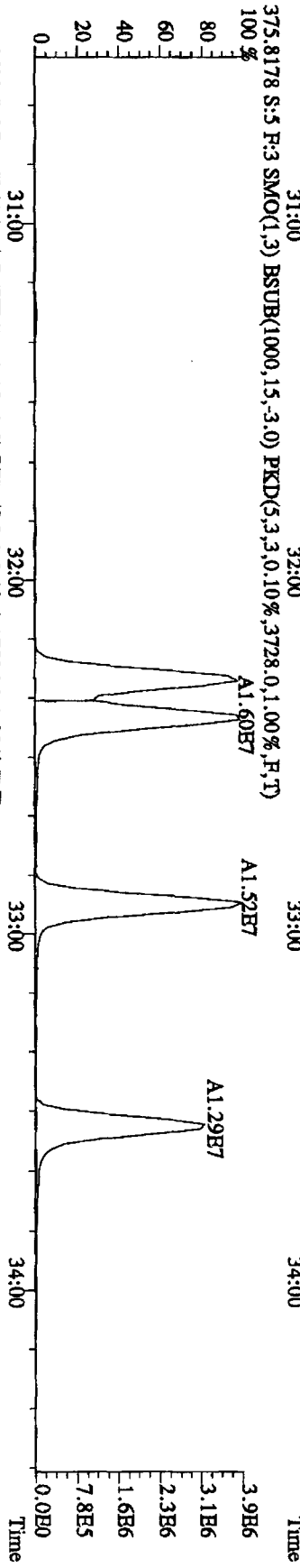
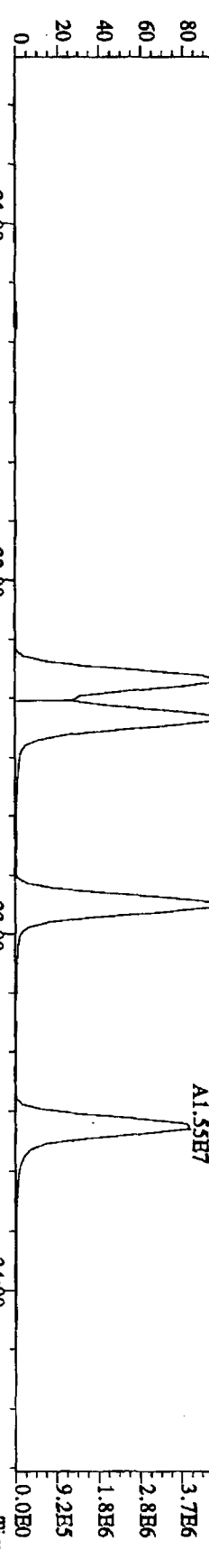
File:21JUL10A4D5 #1-470 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DXINRES  
 355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2284,0,1,00%,F,T)  
 100 %



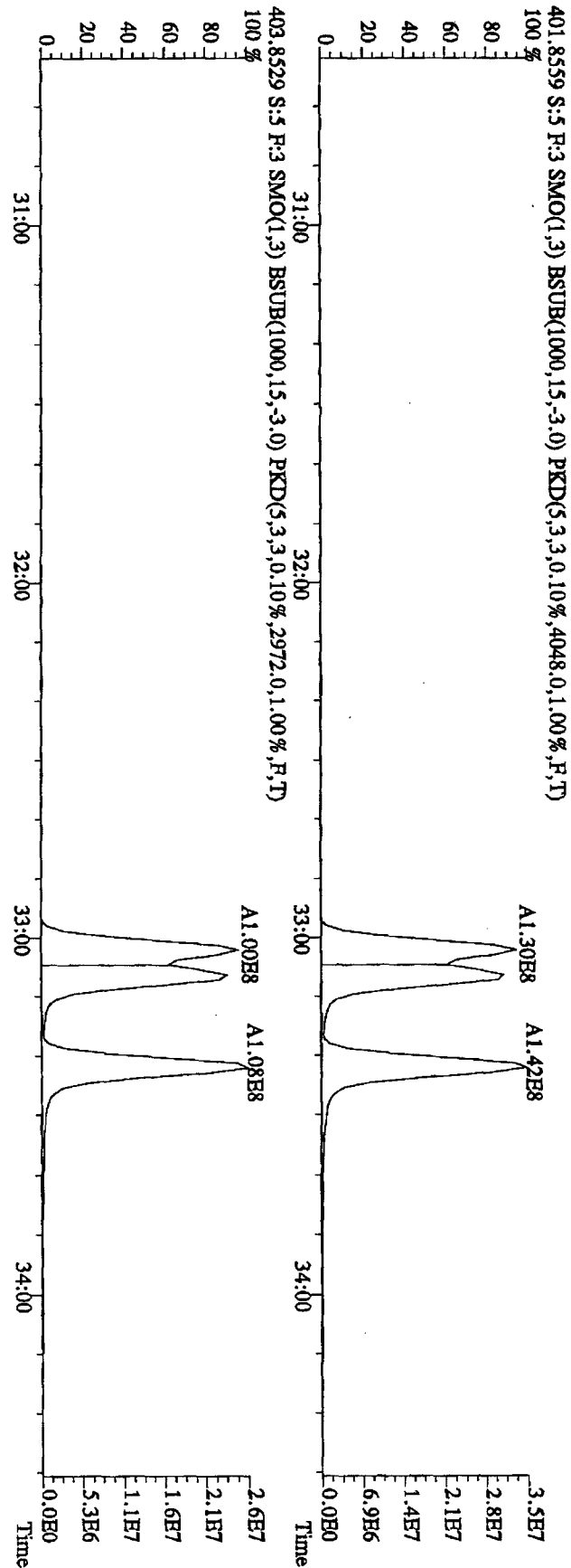
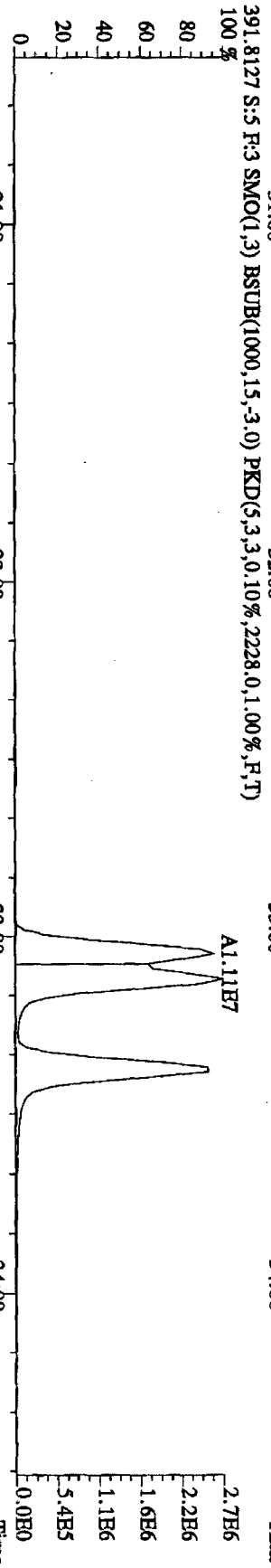
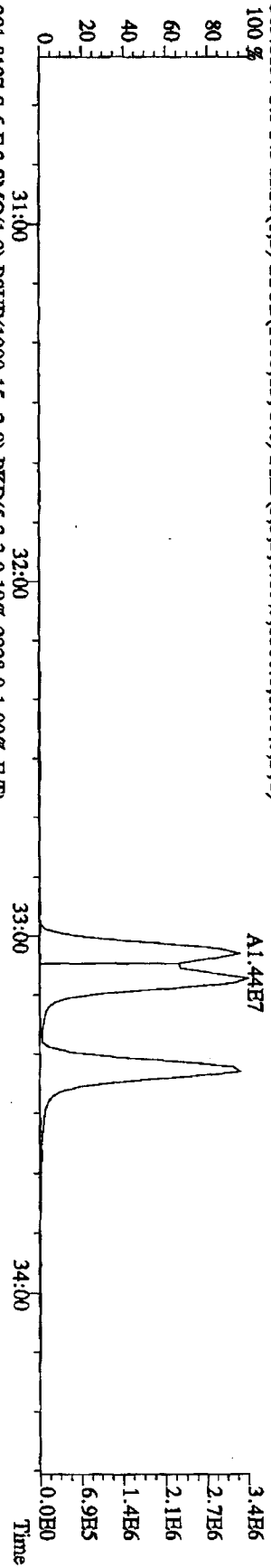


File:21JL10A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-Ultimate

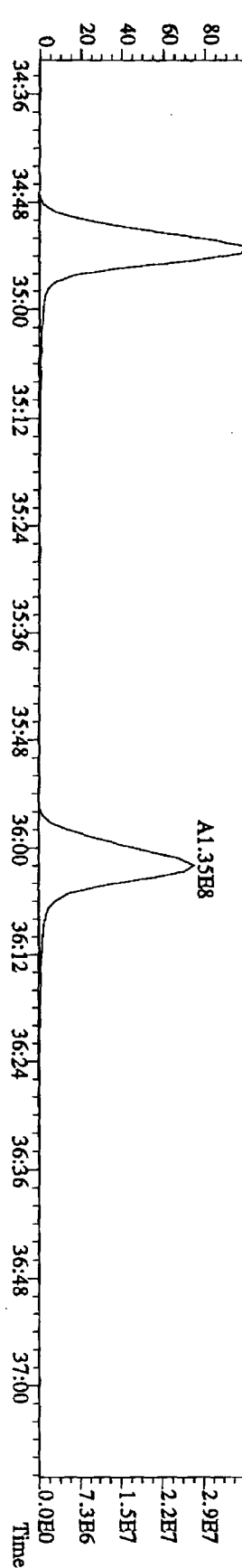
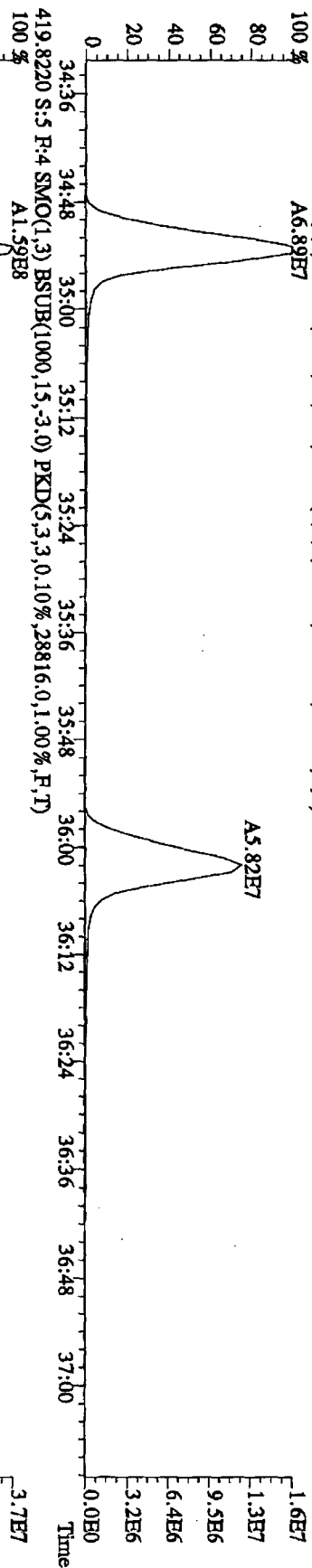
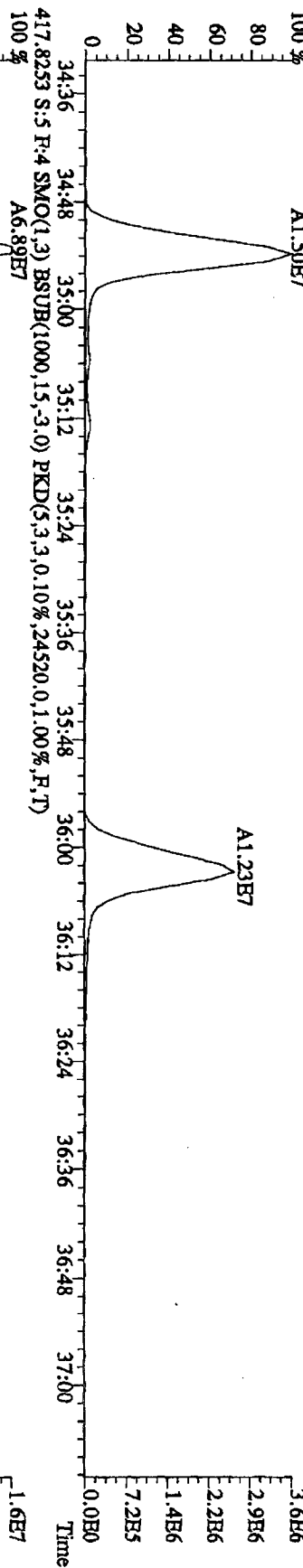
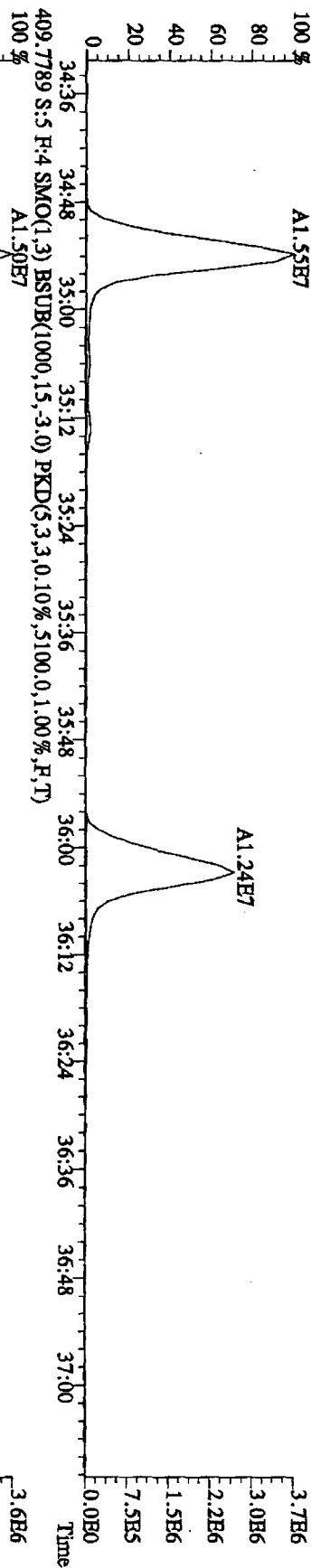
Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES



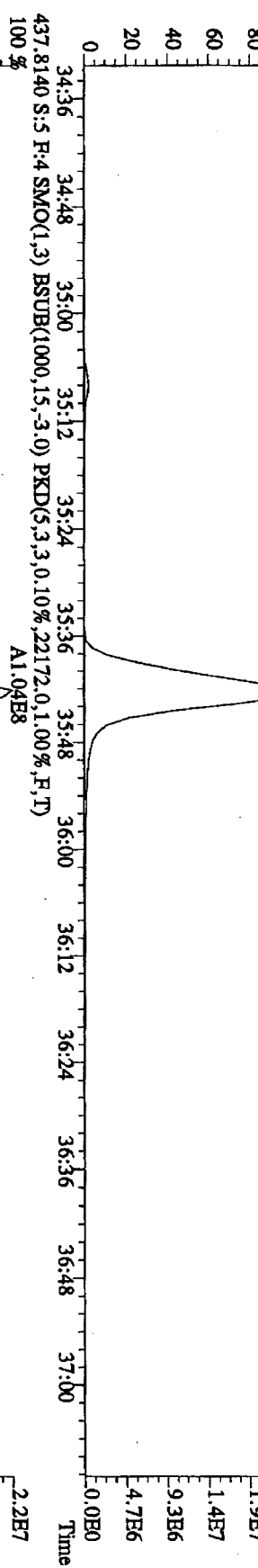
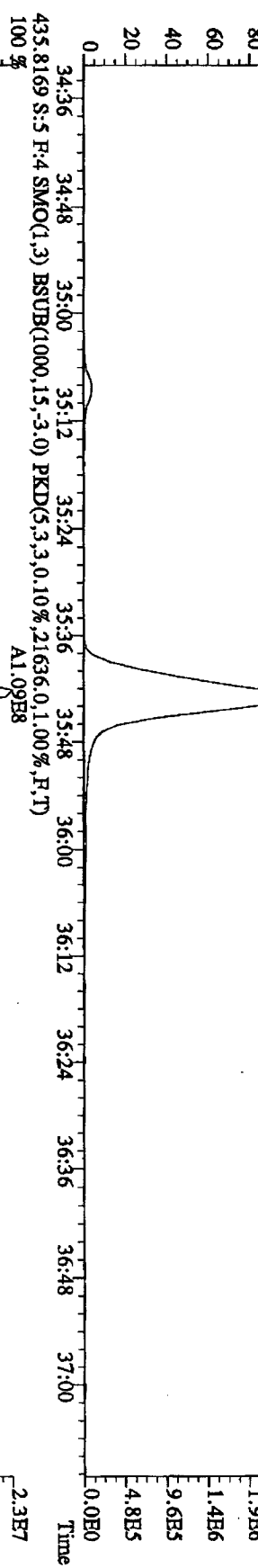
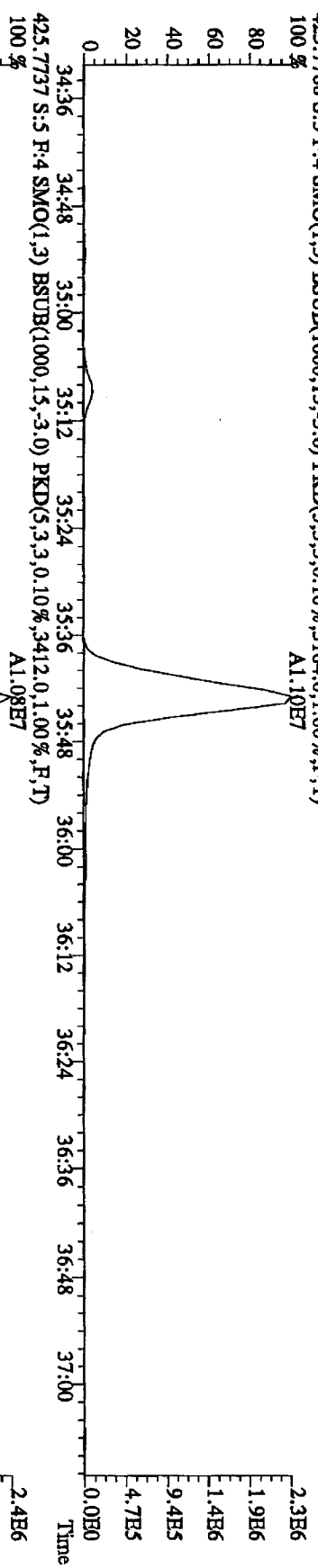
File:21JL10A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UttimAB  
 Sample#5 Text:ST0721B :CS-2 10DXN334 Exp:DIOXINRES  
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1500,0,1,00%,F,T) 100%



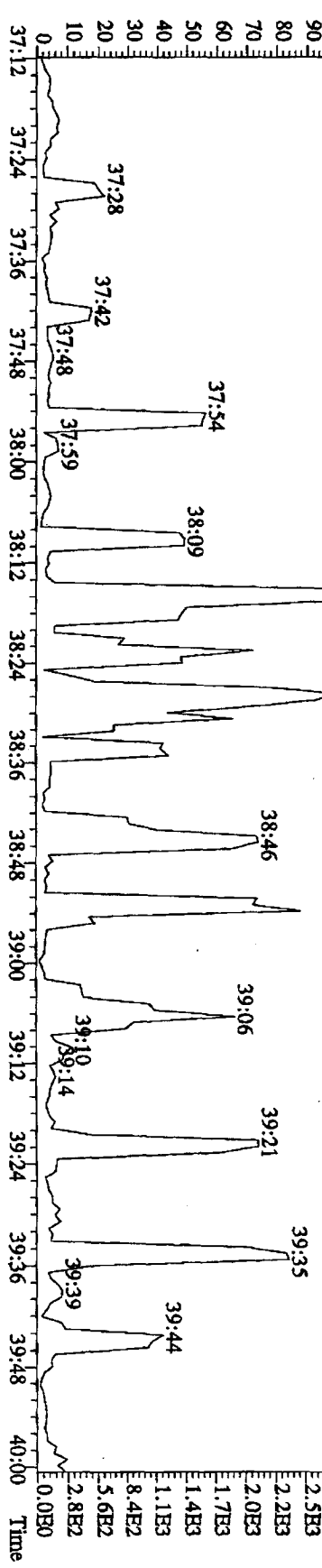
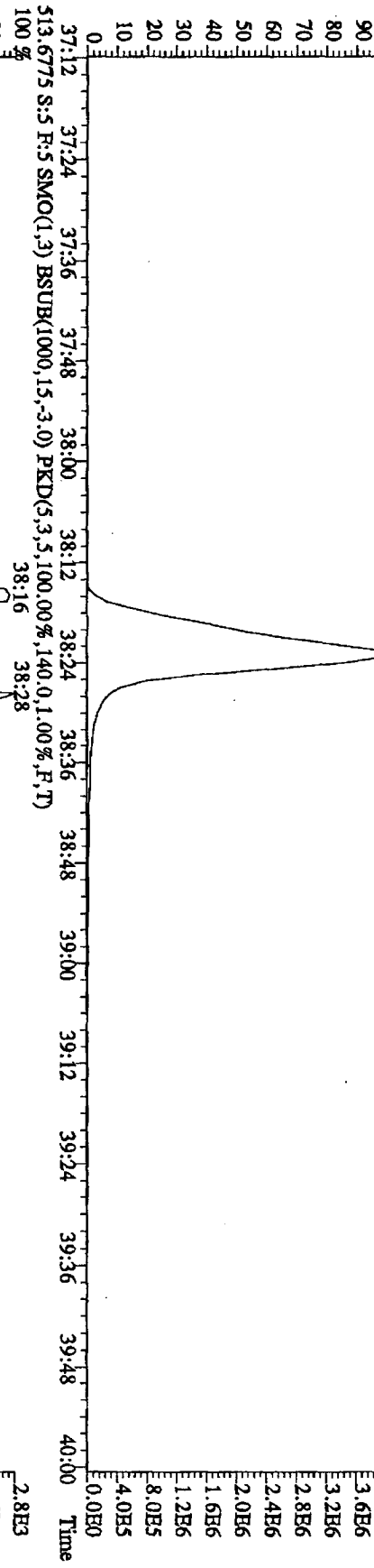
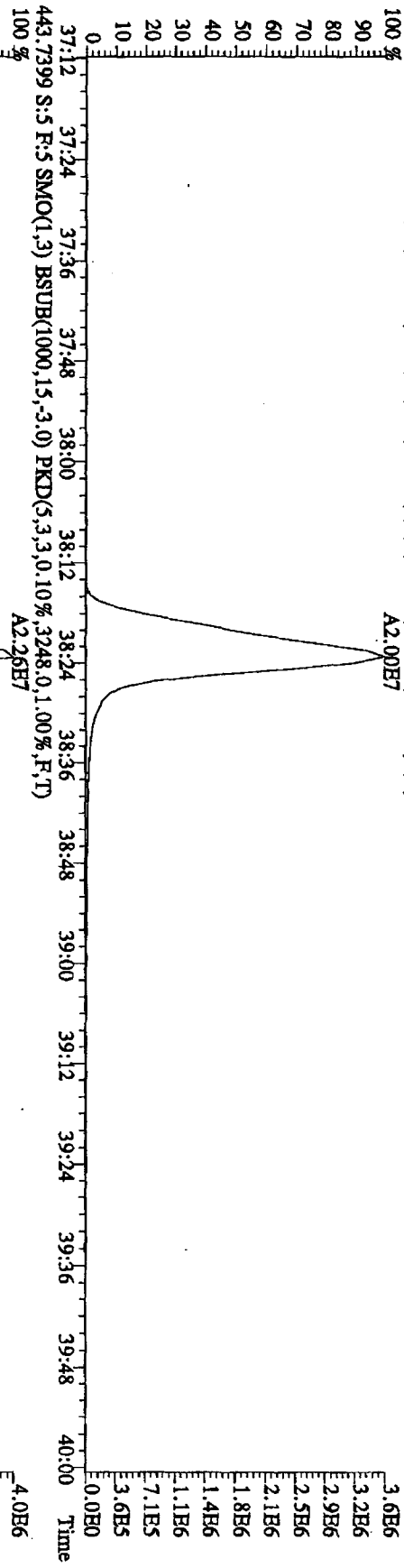
File: 21JUL10A4D5 #1-200 Acq: 21-JUL-2010 17:33:53 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#5 Text: ST0721B : CS-2 10DXN334 Exp: DIOXINRES  
 407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8040,0,1,100%,F,T)  
 100% A1.55E7



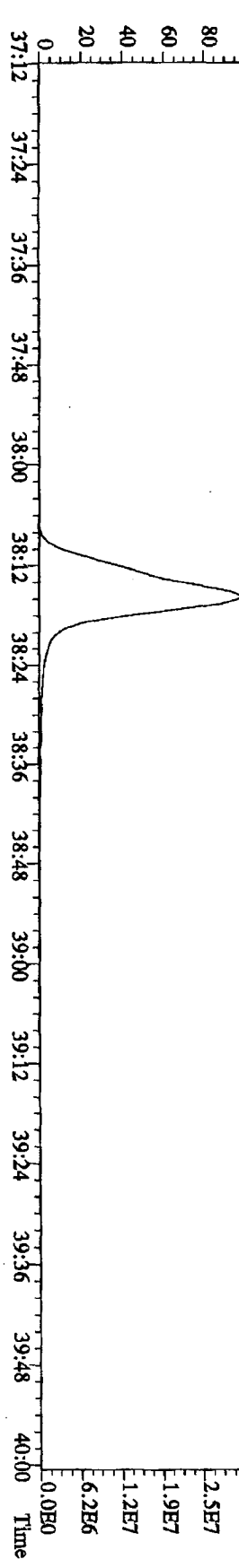
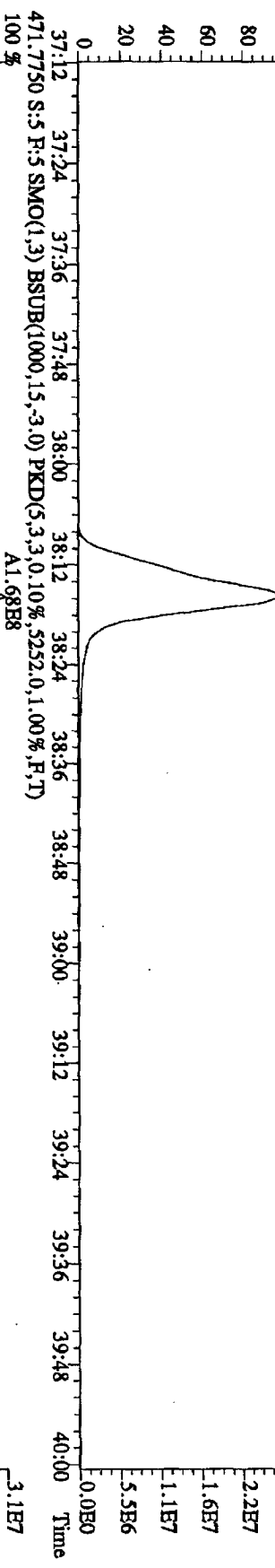
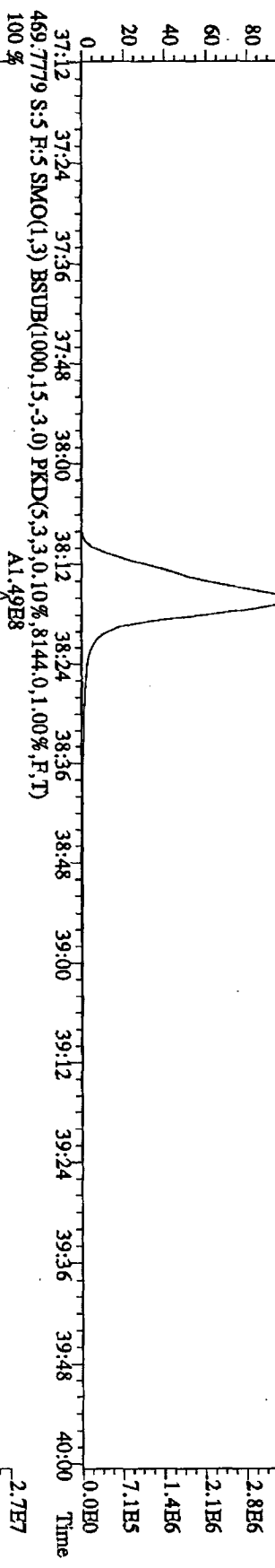
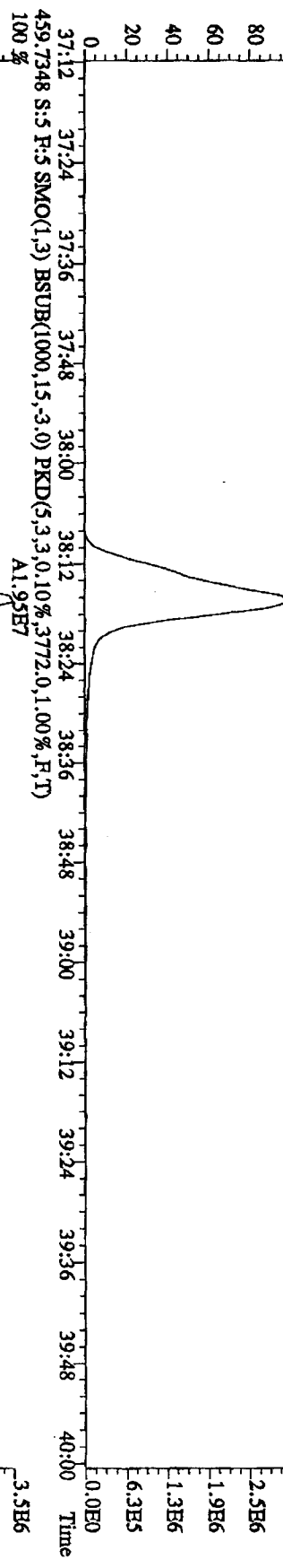
File: 211L10A4D5 #1-200 Acq: 21-JUL-2010 17:33:53 GC BI+ Voltage SIR Autospec-UltimaB  
 Sample#5 Text: ST0721B :CS-2 10DXN334 Exp: DIOXINRES  
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3164,0.1,0.0%,F,T)  
 100%



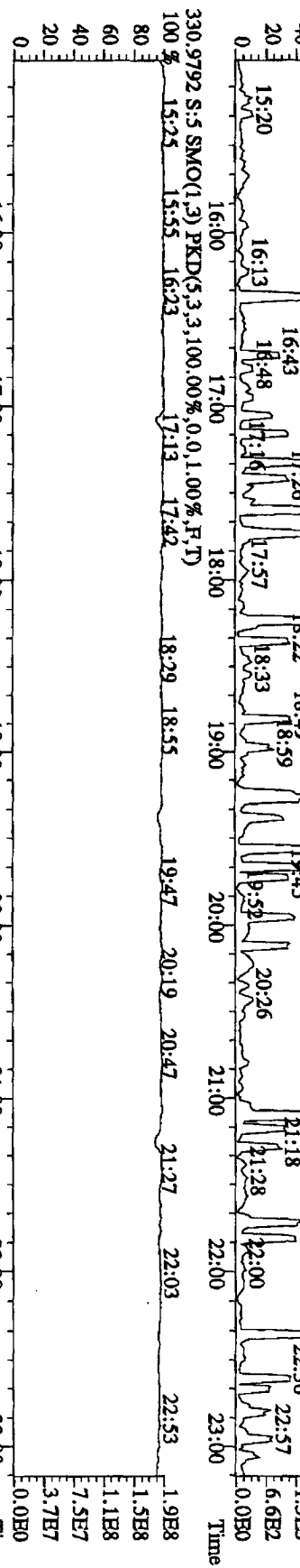
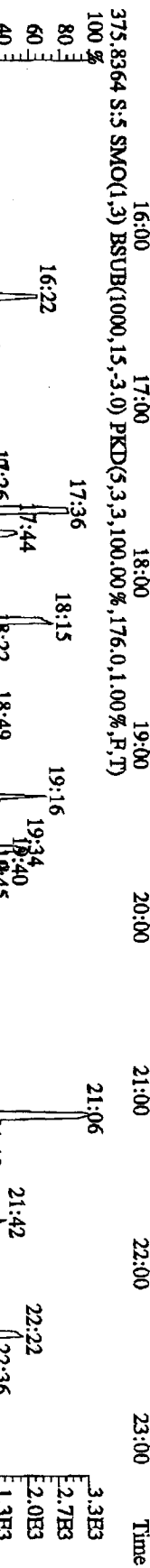
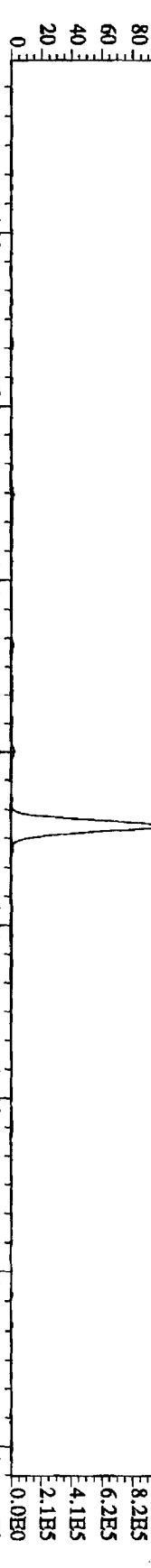
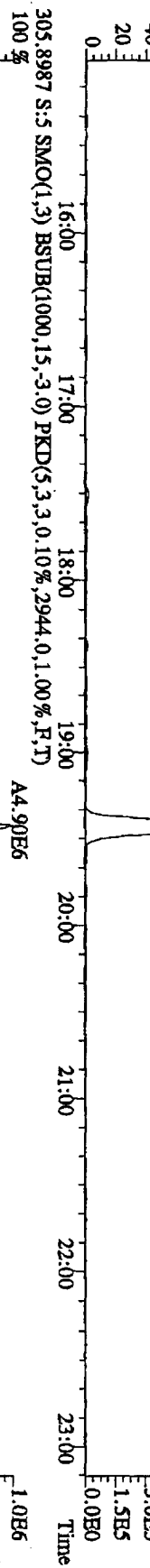
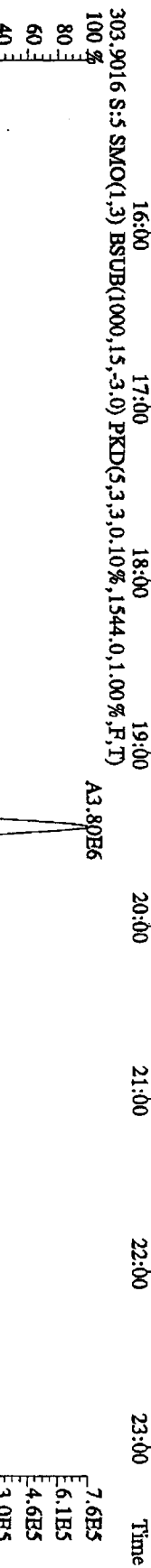
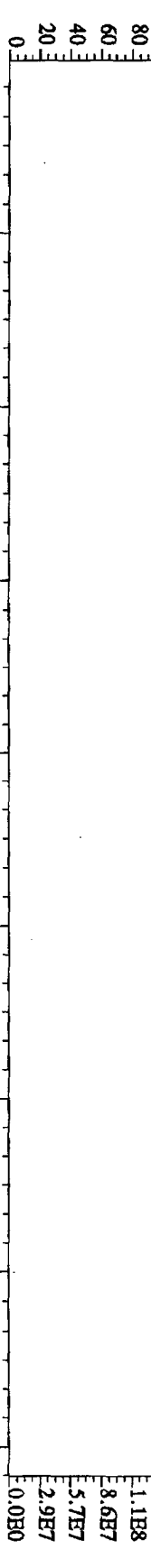
File: 21JL10A4D5 #1-228 Acq: 21-JUL-2010 17:33:53 GC BI+ Voltage SIR Autospec-Ultimate  
 Sample#5 Text: ST0721B :CS-2 10DXN34 Exp: DIOXINRES  
 441.7428 S:5 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2904,0.1,00%,F,T) A2.00E7



File:21JUL10A4D5 #1-228 Acq:21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#5 Text:ST0721B :CS-2 10DXN334 Bsp:DIOXINRES  
 459.7348 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3772.0,1.00%,F,T)  
 100% A1.75E7



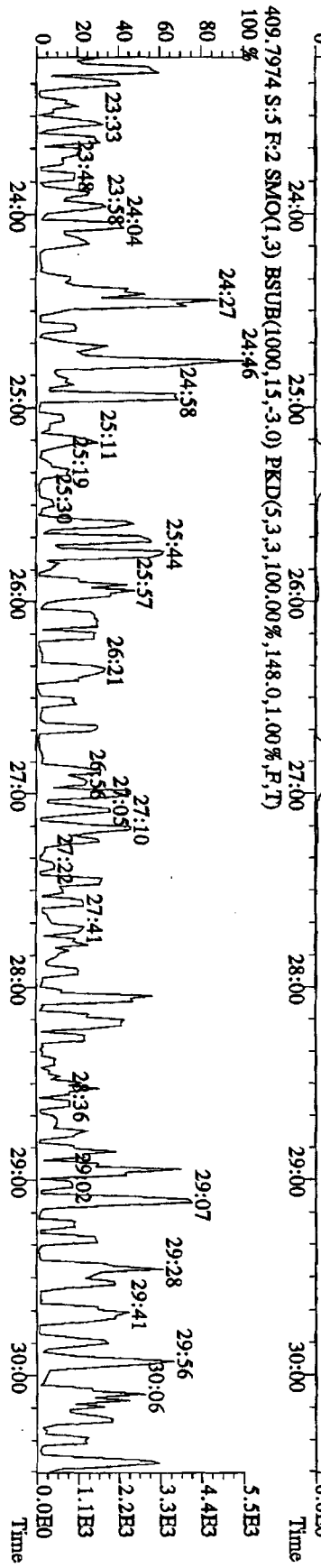
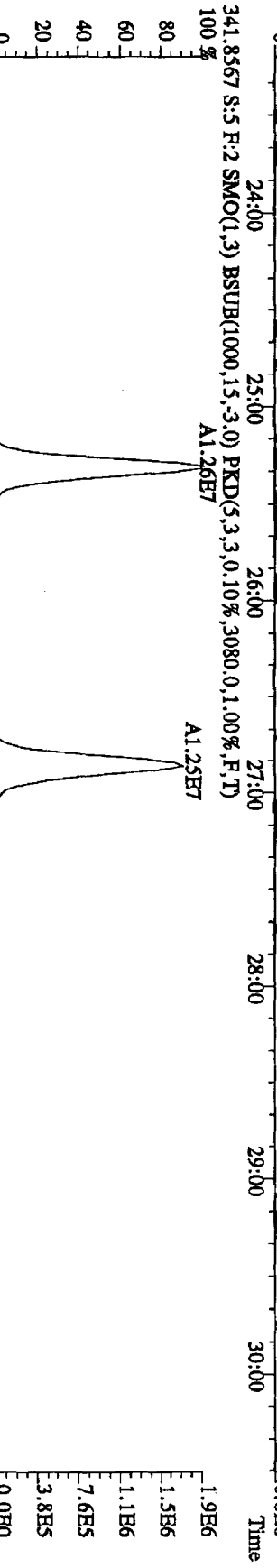
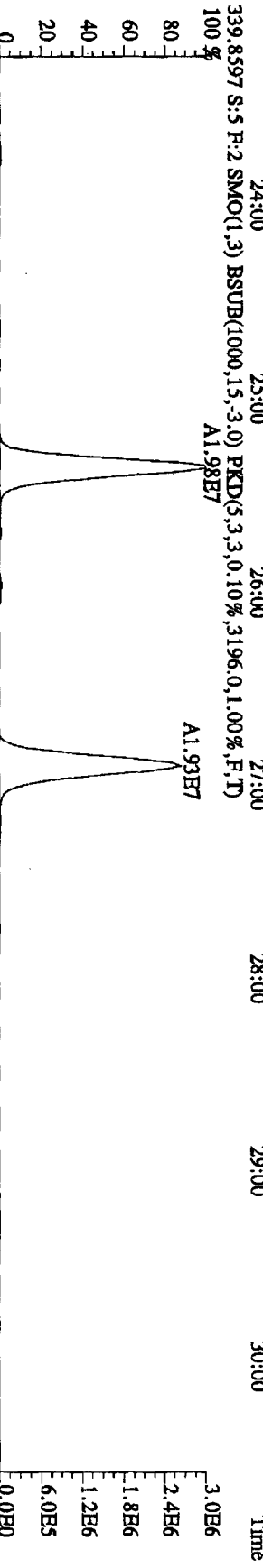
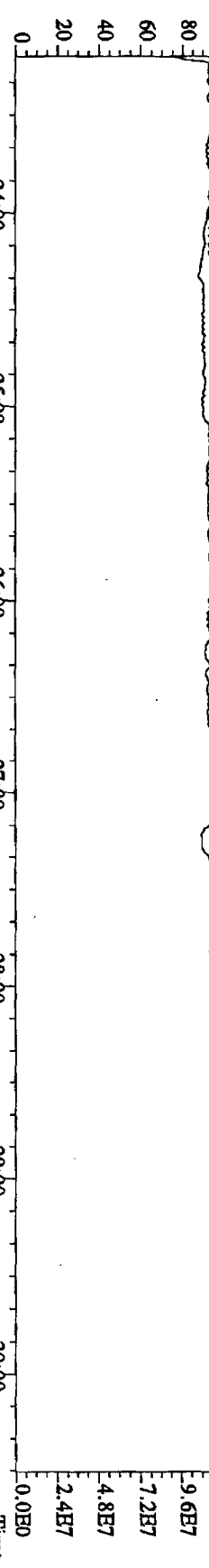
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 17:33:53 GC BI+ Voltage SIR Autospec-UltimaE  
 Sample#5 Text: ST0721B :CS-2 10DXN334 Exp: DIOXINRES  
 292.9825 S:5 SMO(1.3) PKD(5.3,5,100.00%,0.0,1.00%,F,T)  
 100 % 15:14 16:16 17:01 17:28 18:46 20:04 20:43 21:12 21:58 22:41



File:21JUL10A4D5 #1-470 Acq:21-JUL-2010 17:33:53 GC HI+ Voltage SIR Autospec-Ultimate

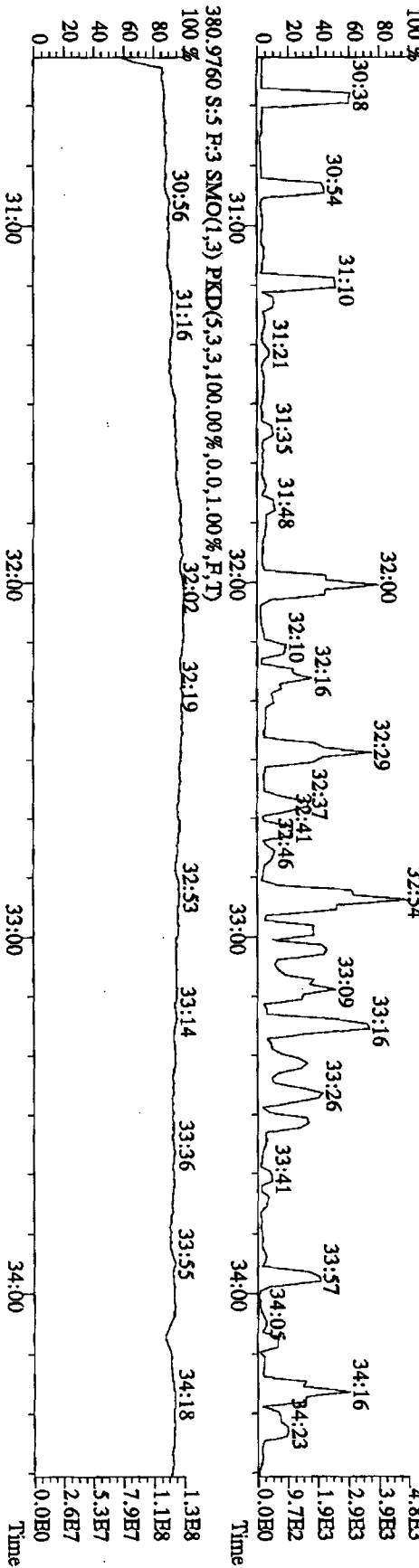
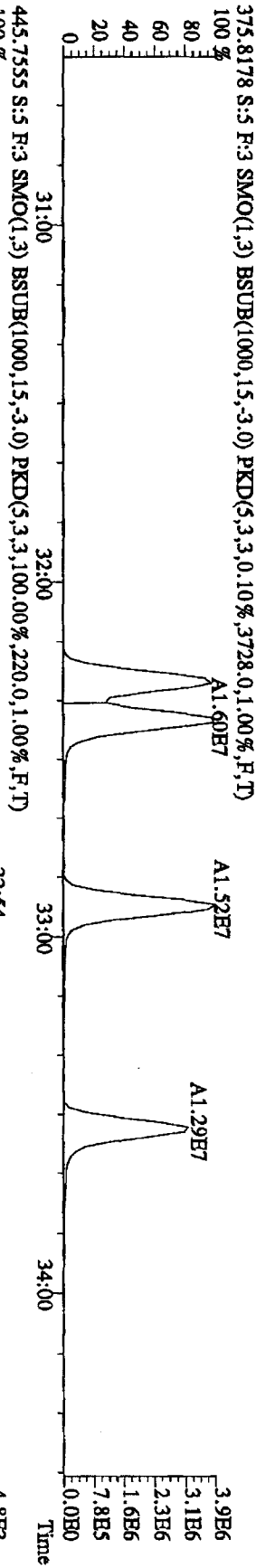
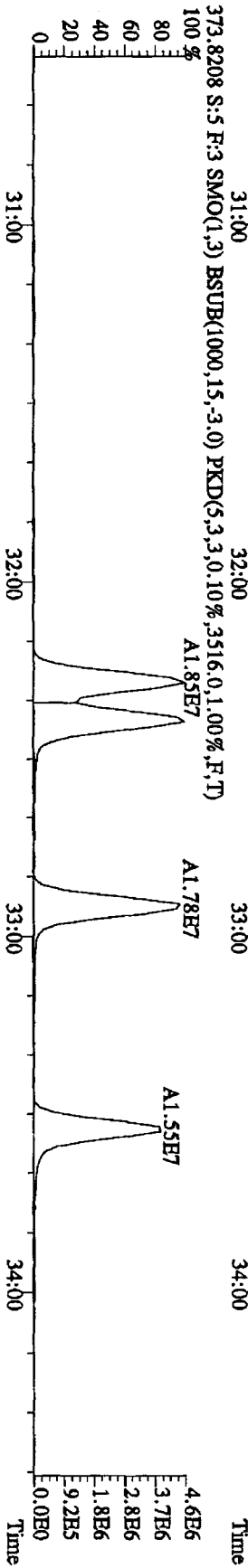
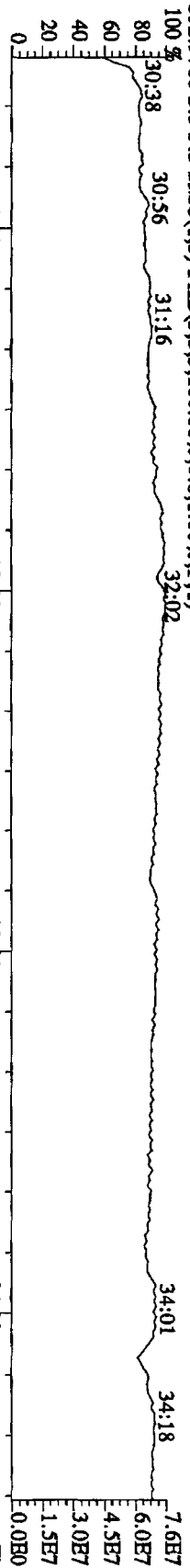
Sample#5 Text:ST0721B :CS-2-10DXN334 Exp:DIOXINRES

342.9792 S:5 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)





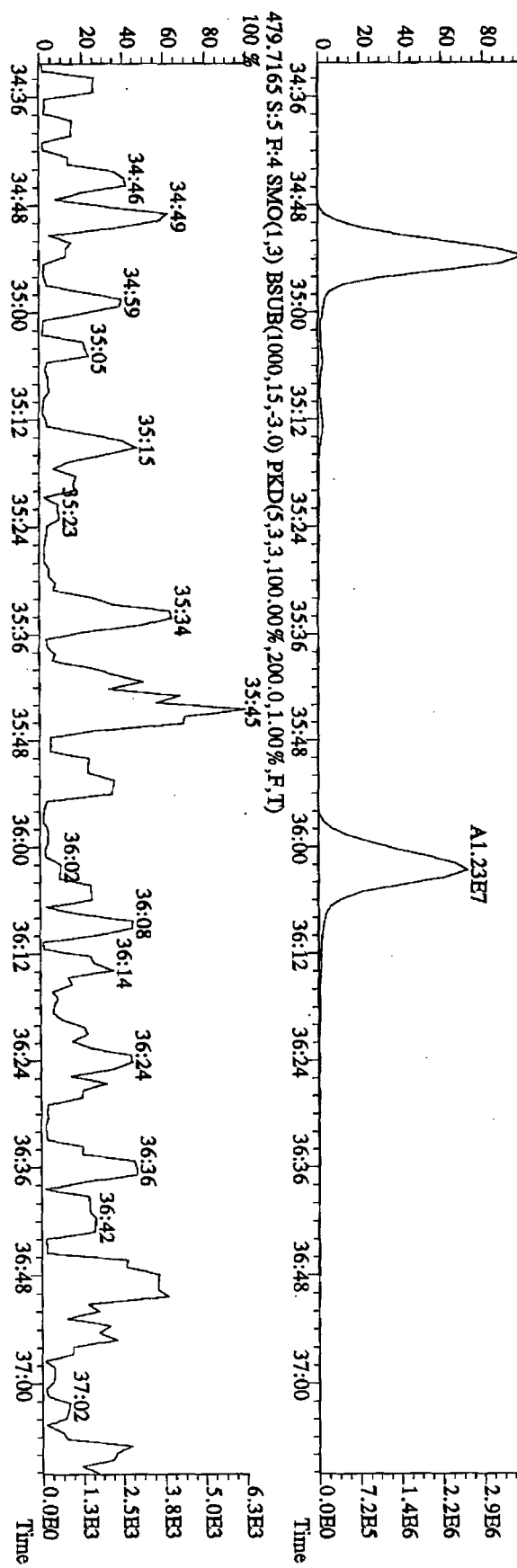
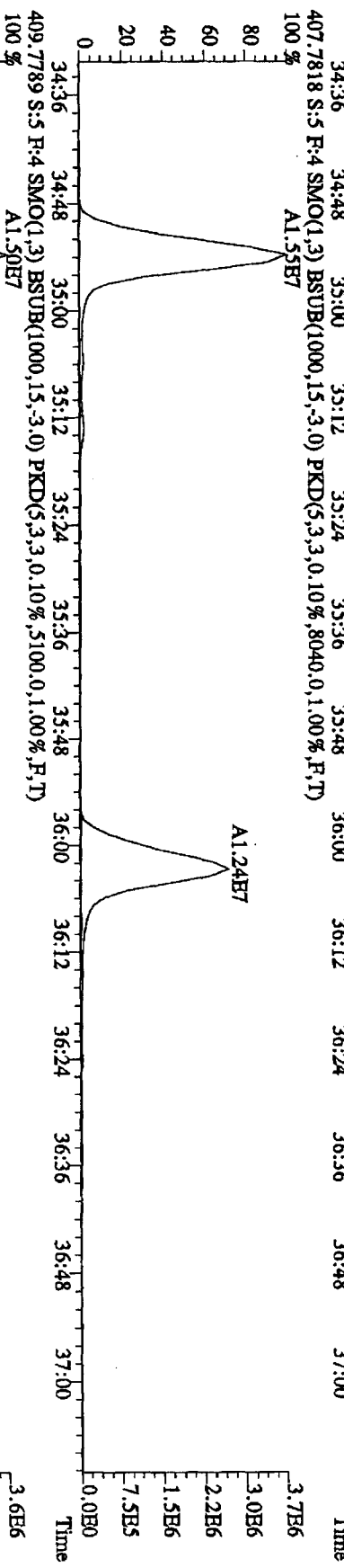
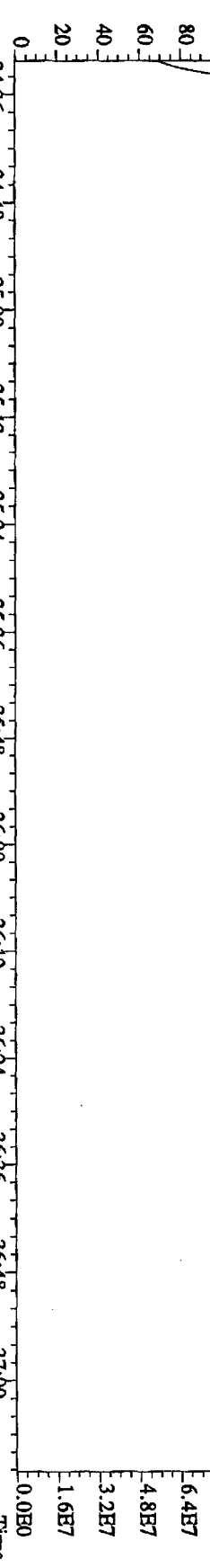
File:211110A4D5 #1-287 Acq:21-JUL-2010 17:33:53 GC HI+ Voltage SIR Autospec-Ultimah  
 Sample#5 Text:ST0721B :CS-2-10DXN334 Exp:DIOXINRES



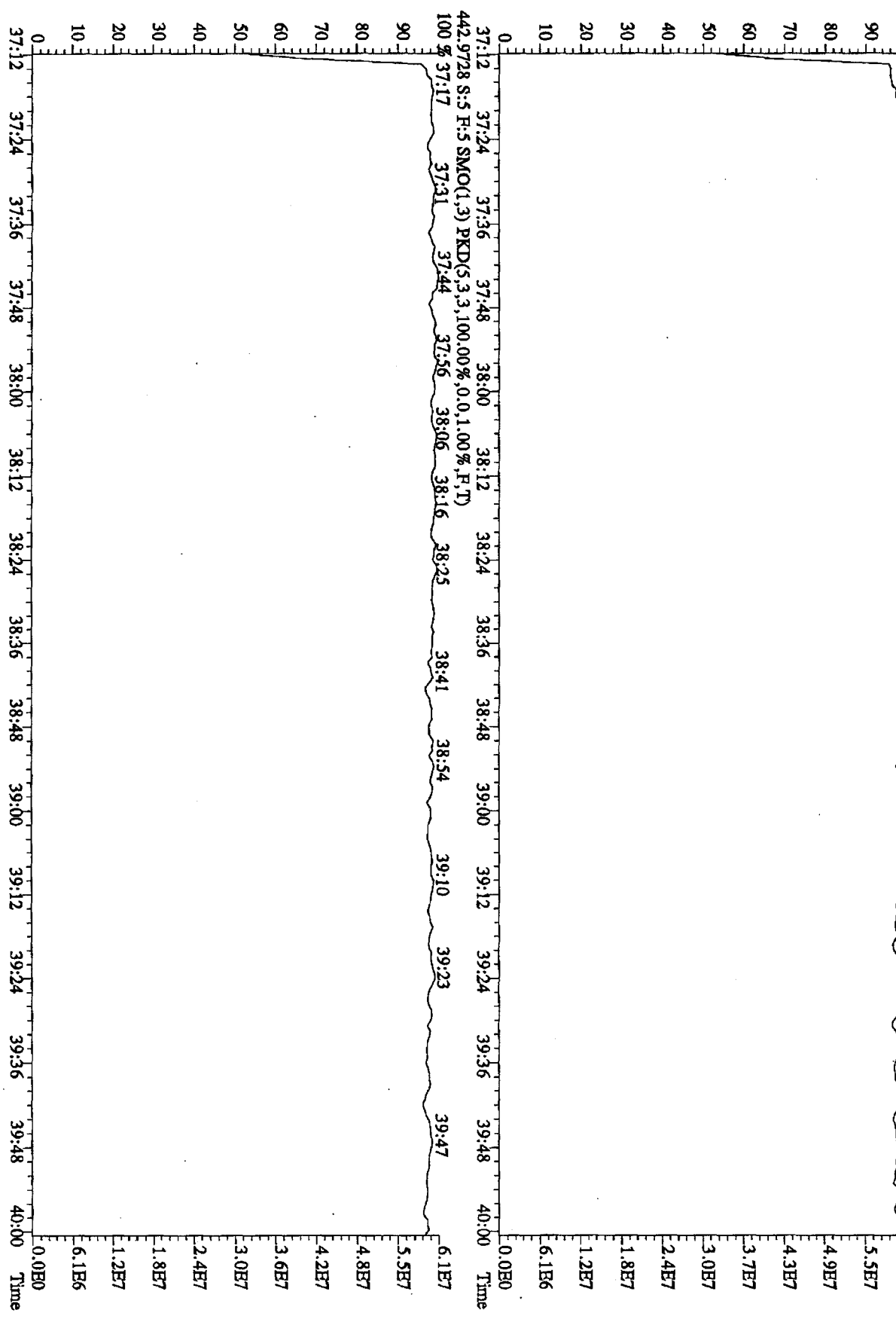
File: 21JUL10A4D5 #1-200 Acq: 21-JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-Ultimate

Sample#5 Test: ST0721B : CS-2 10DXN334 Exp: DIOXINRBS

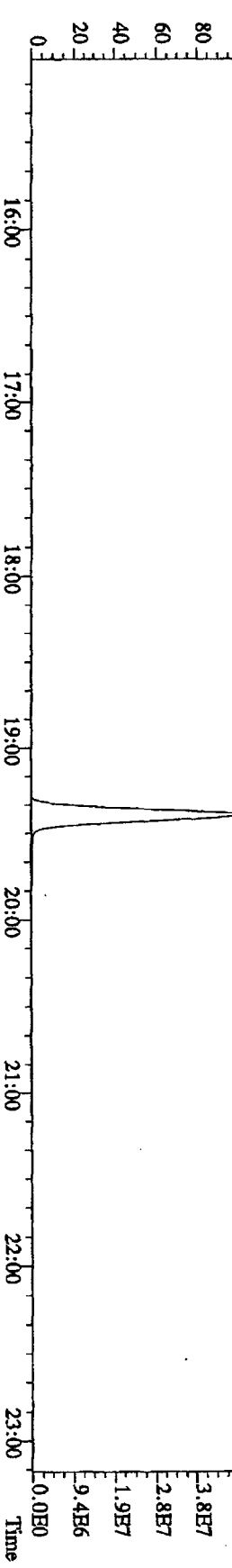
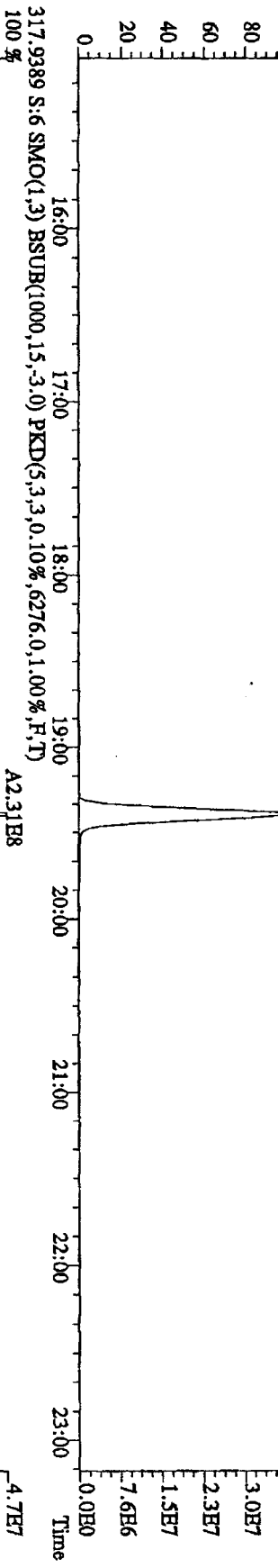
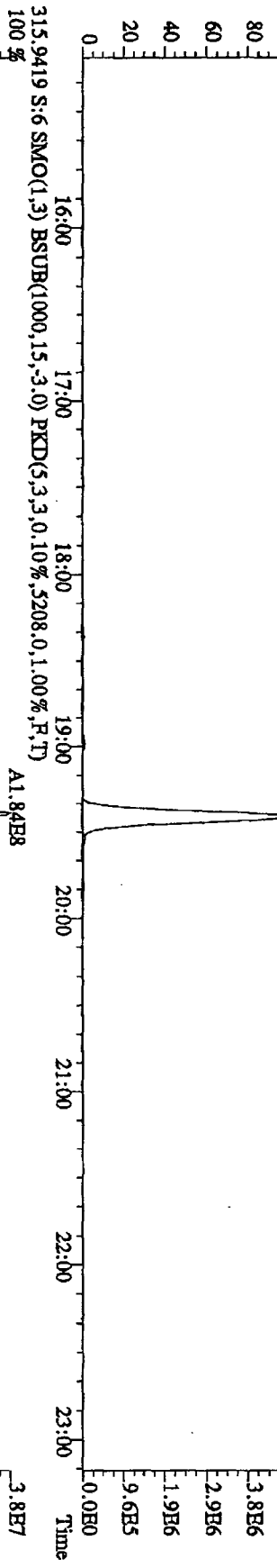
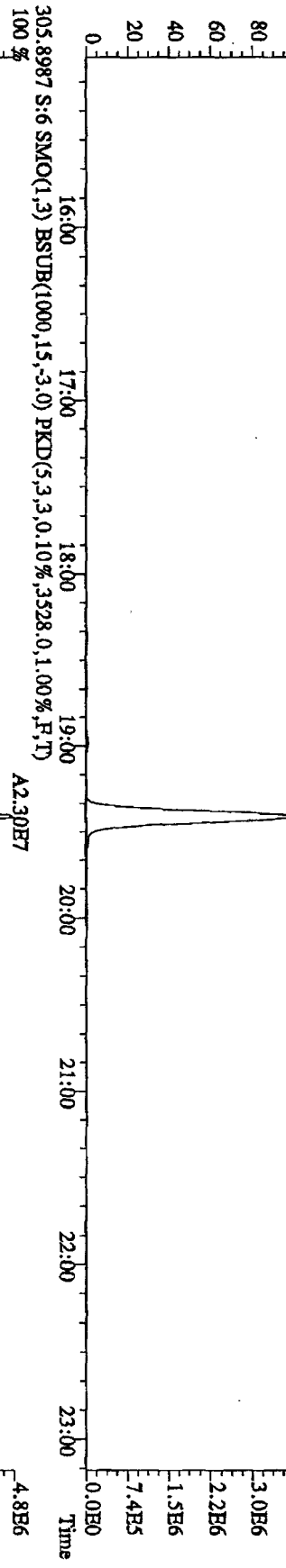
430.9728 S:5 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



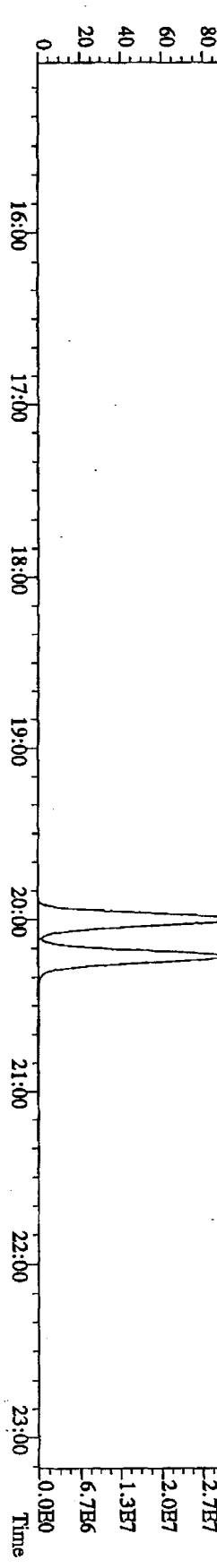
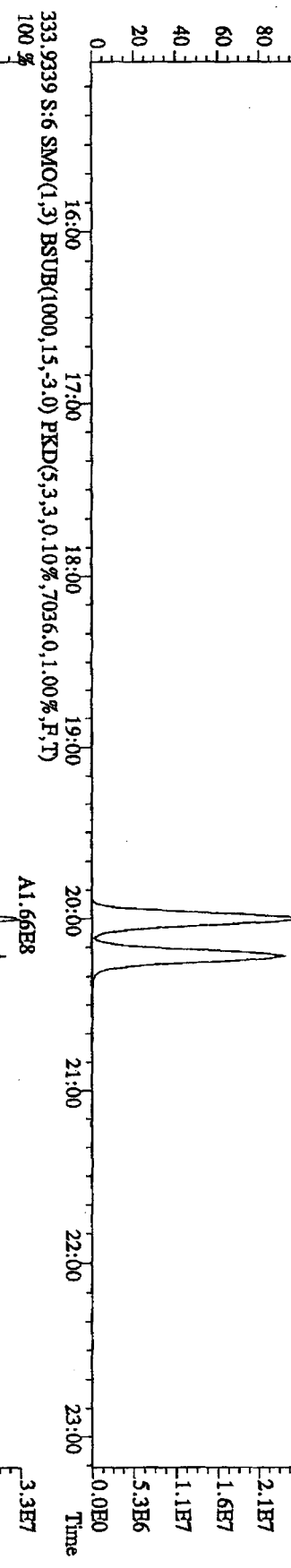
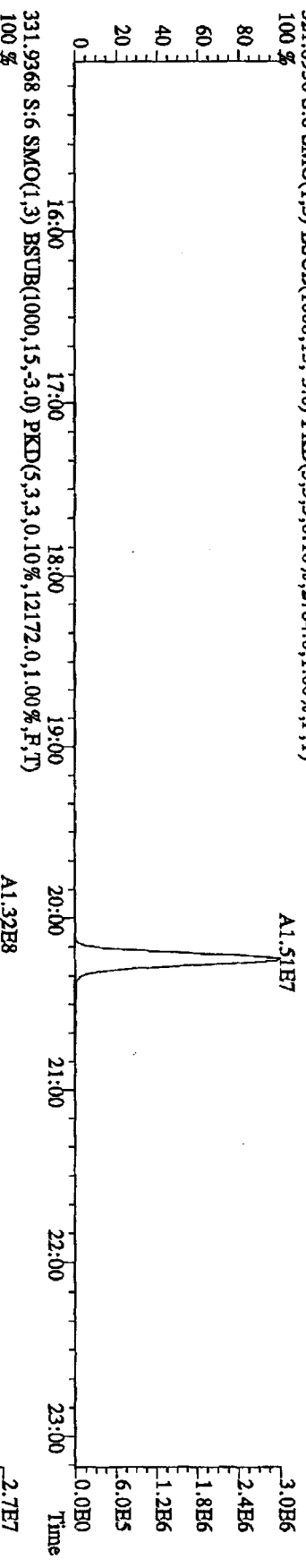
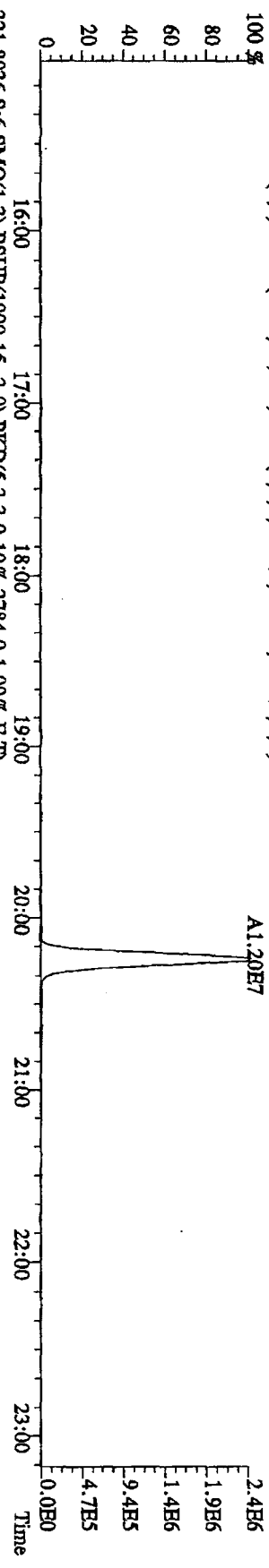
File: 21JUL10A4D5 #1-228 Acq: 21JUL-2010 17:33:53 GC EI+ Voltage SIR Autospec-UltraE  
 Sample#5 Text: ST0721B :CS-2 10DXN34 Exp: DIOXINRES  
 454.9728 S:5 F:5 SMO(1,3) PKD(5,3,100,00%,0,0,1,00%,F,T)  
 100% 37:20 37:31 37:51 38:09 38:25 38:44 38:57 39:07 39:22 39:42 39:55



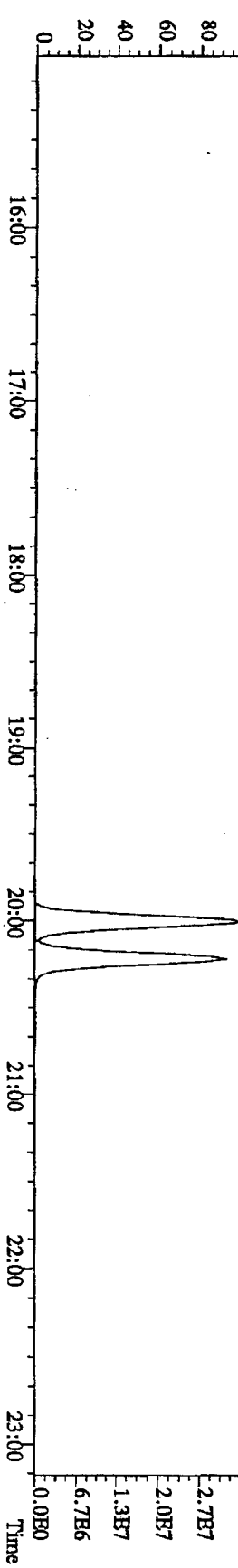
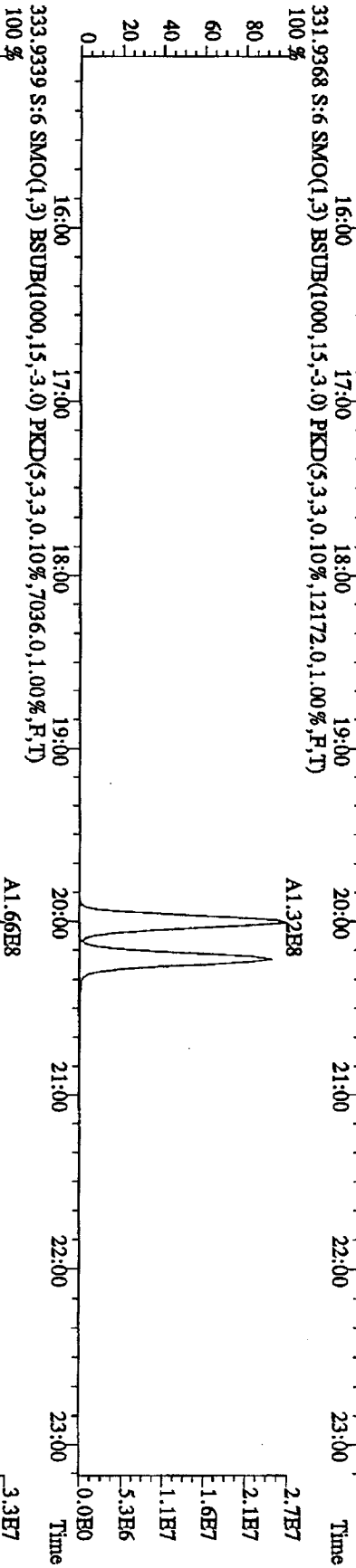
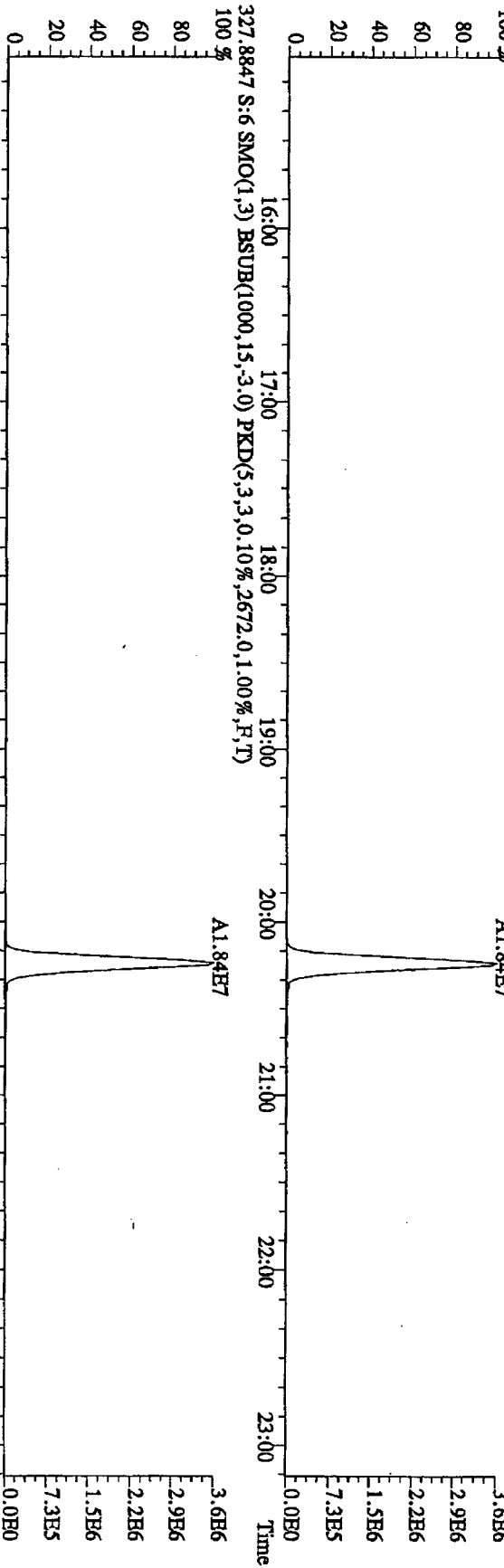
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC HI+ Voltage SIR Autospec-Urtinal  
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES  
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2384,0,1.00%,F,T)  
 100 %



File:2111.10A4D5 #1-541 Acq:21-JUL-2010 18:18:56 GC HI+ Voltage SIR Autospec-UtimaB  
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINES  
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2340.0,1.00%,F,T) 100%

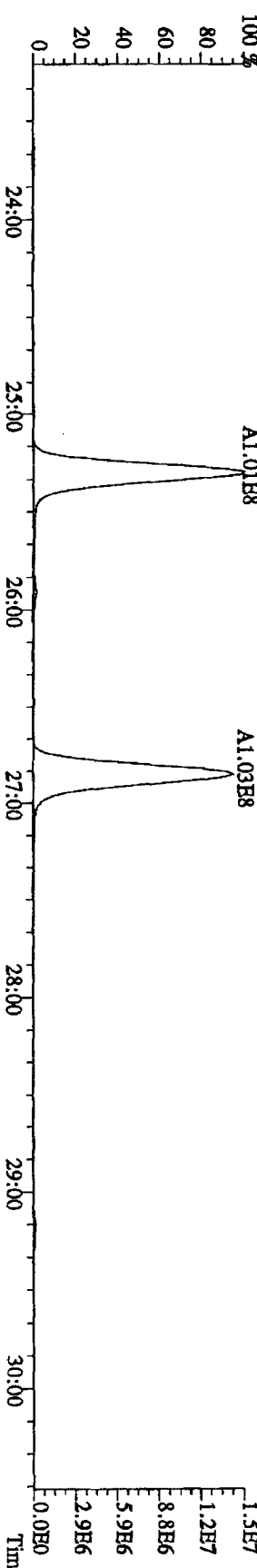
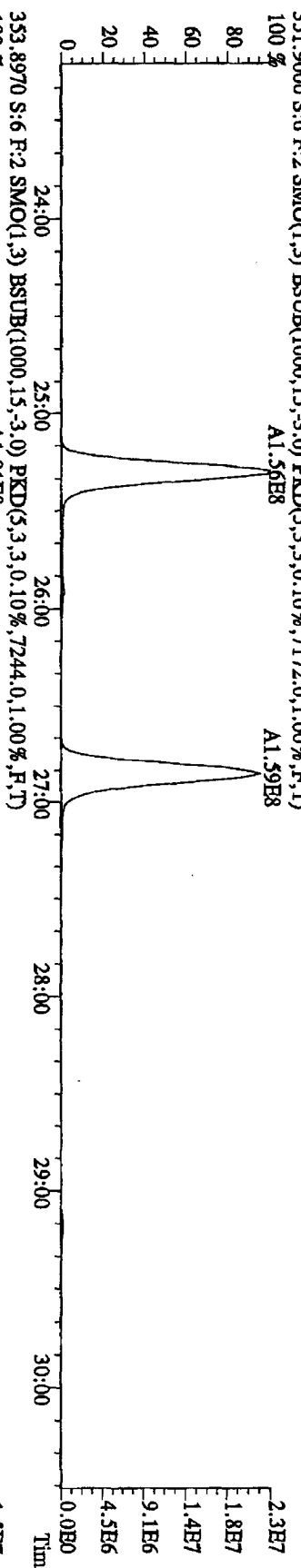
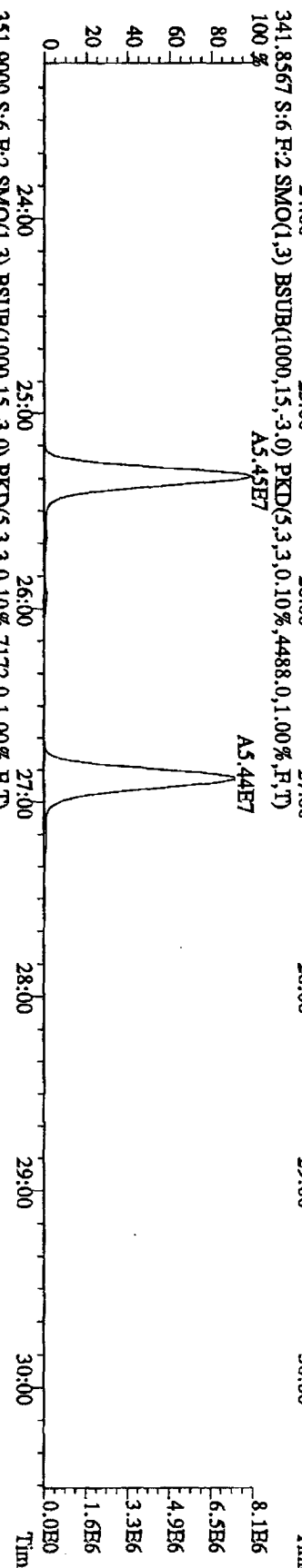
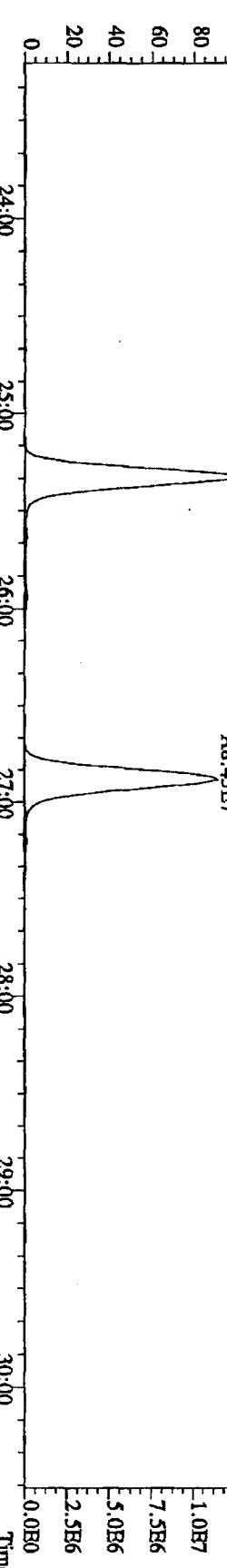


File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 18:18:56 GC: EI+ Voltage: SFR Autospec: Ultimate  
 Sample: #6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRES  
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2672.0,1.00%,F,T)

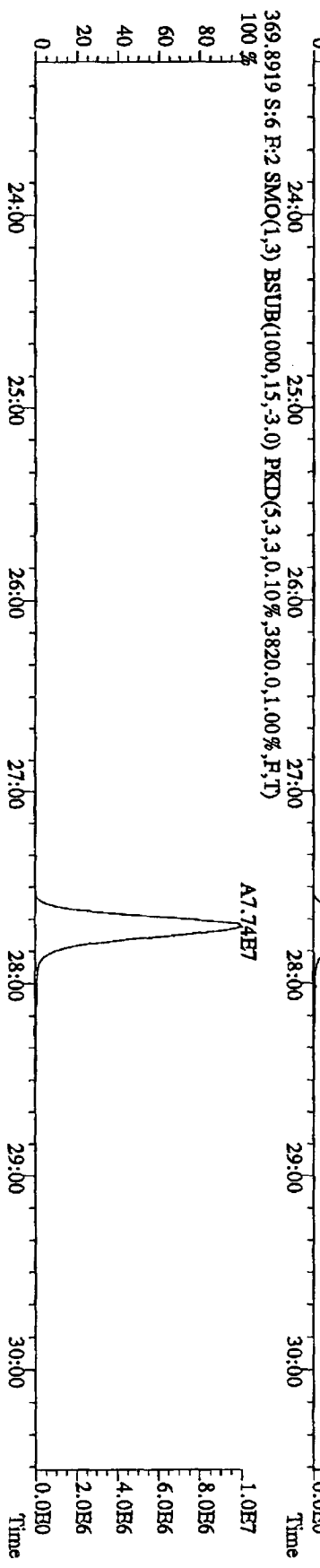
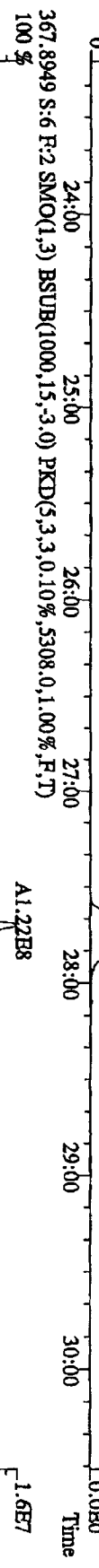
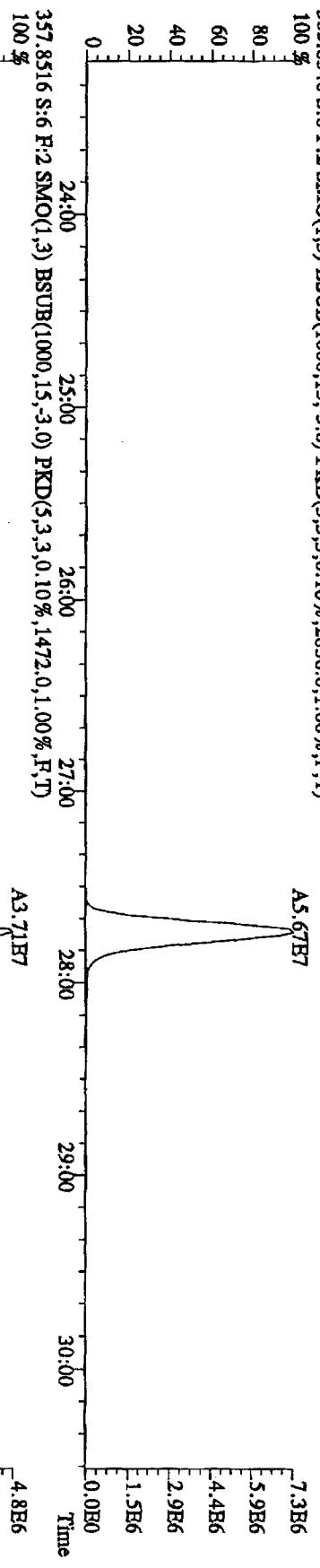


File: 211L10AADD5 #1-470 Acq: 21-JUL-2010 18:18:56 GC HI+ Voltage SIR Autospec-UltimaE

Sample#6 Text: ST0721C : CS-3 IODXN36 Exp: DIOXINRES

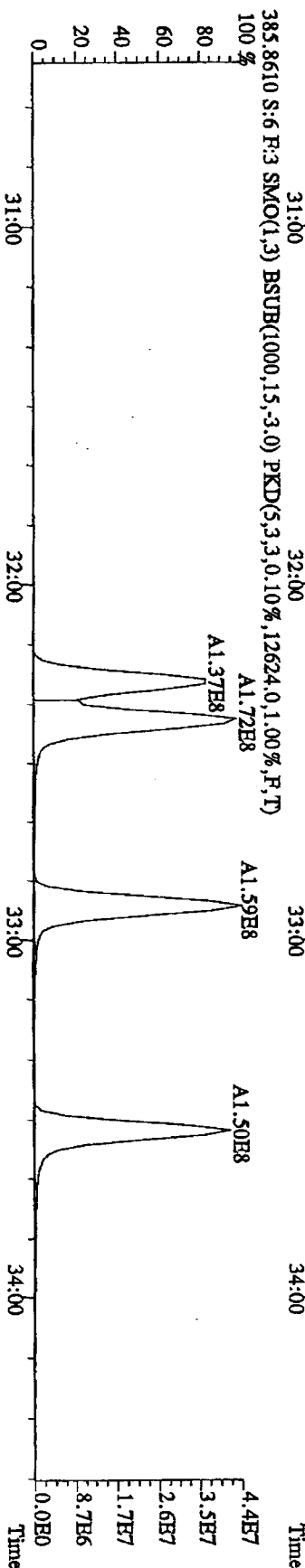
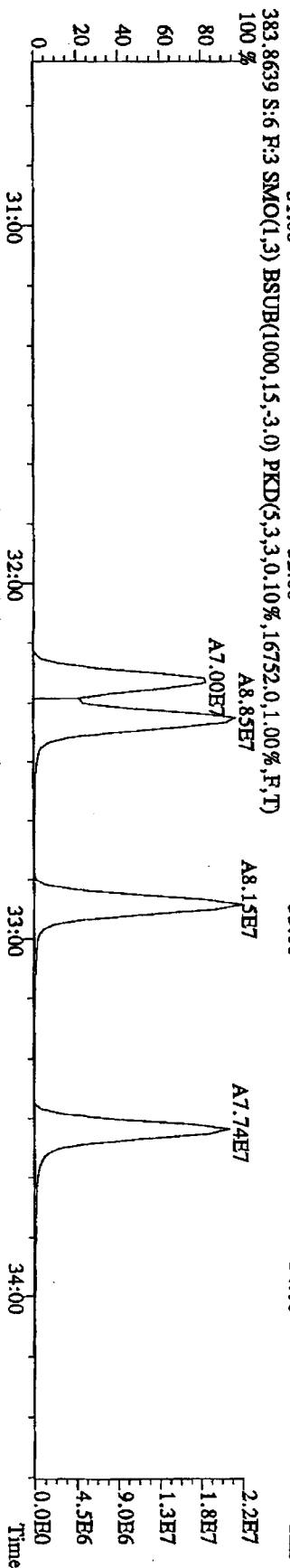
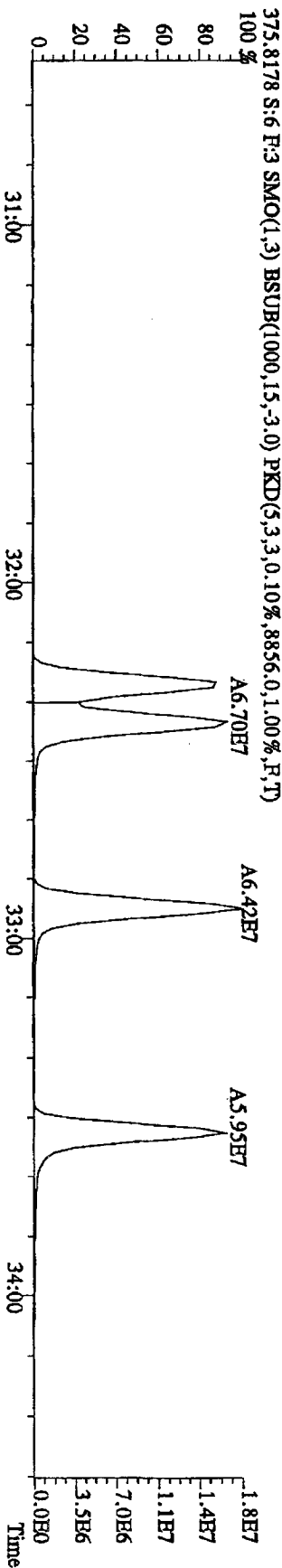
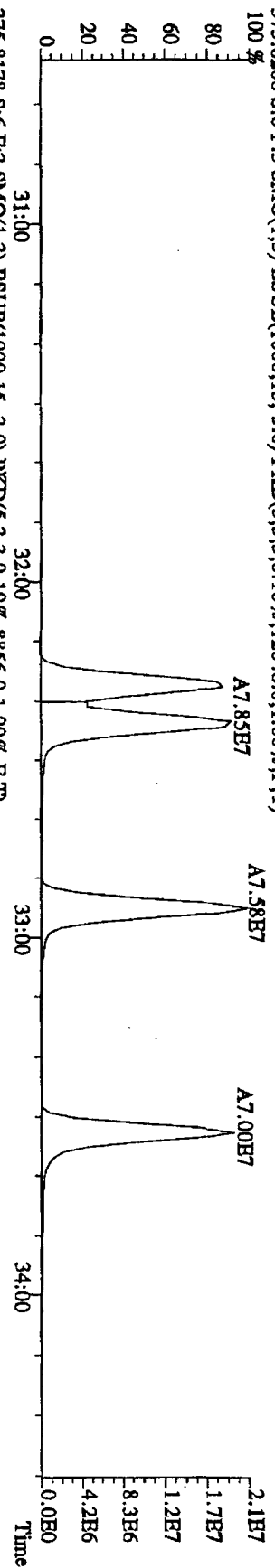


File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 18:18:36 GC BI+ Voltage SIR Autospec-UltimaB  
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRES  
 357.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1472,0,1,00%,F,T)  
 100%

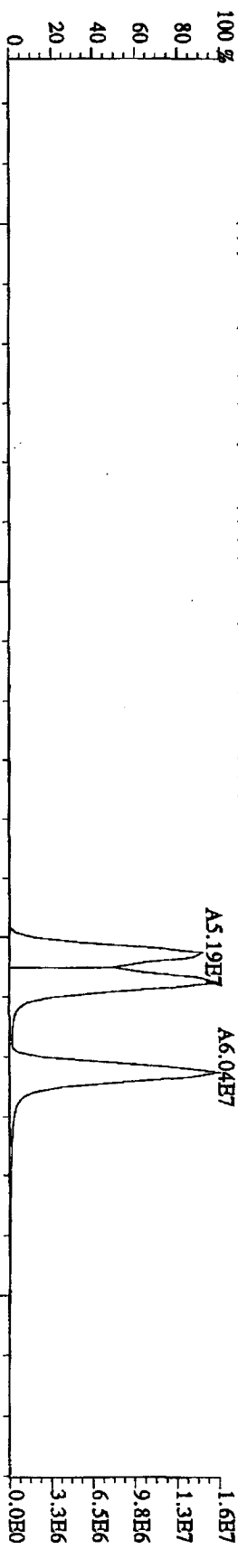




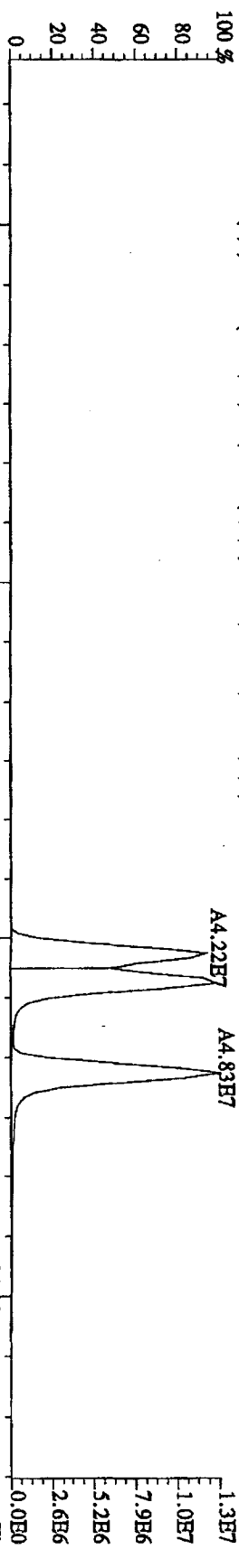
File:211L10A4D5 #1-286 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage STR Autospec-UltimaB  
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp.:DIOXINRES  
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12848,0,1,00%,F,T)



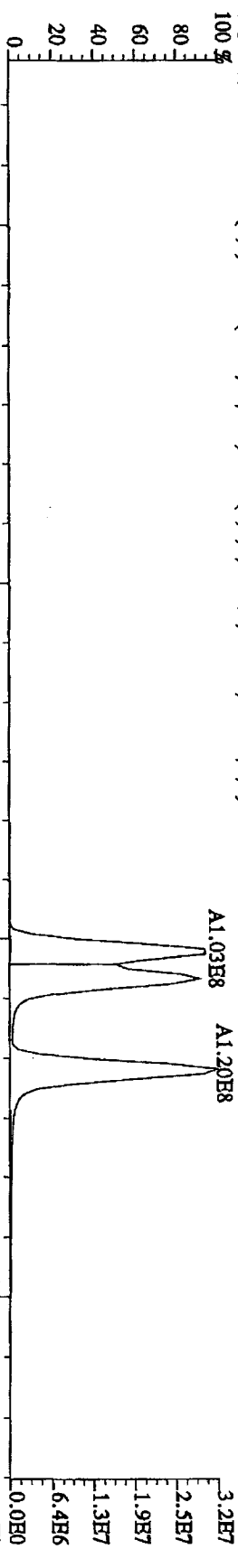
File: 211L10A4D5 #1-286 Acq: 21-JUL-2010 18:18:56 GC EI+ Voltage STR Autospec-UltimaB  
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXNRES  
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1980,0,1,00%,F,T)



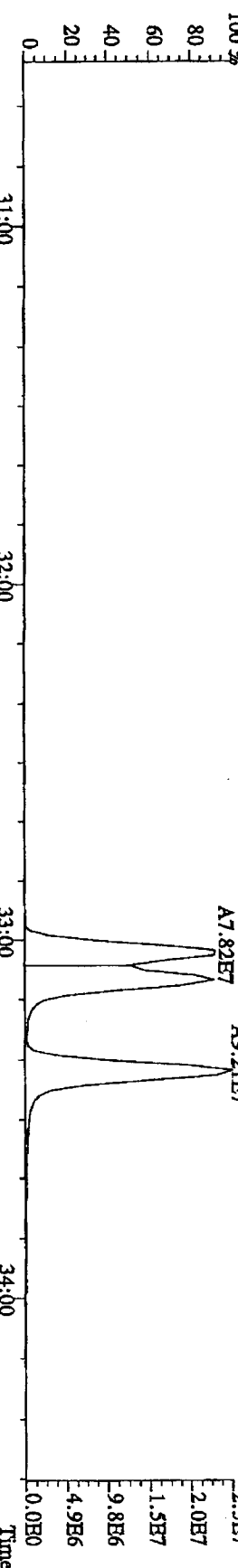
391.8127 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2240,0,1,00%,F,T)



401.8559 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3240,0,1,00%,F,T)

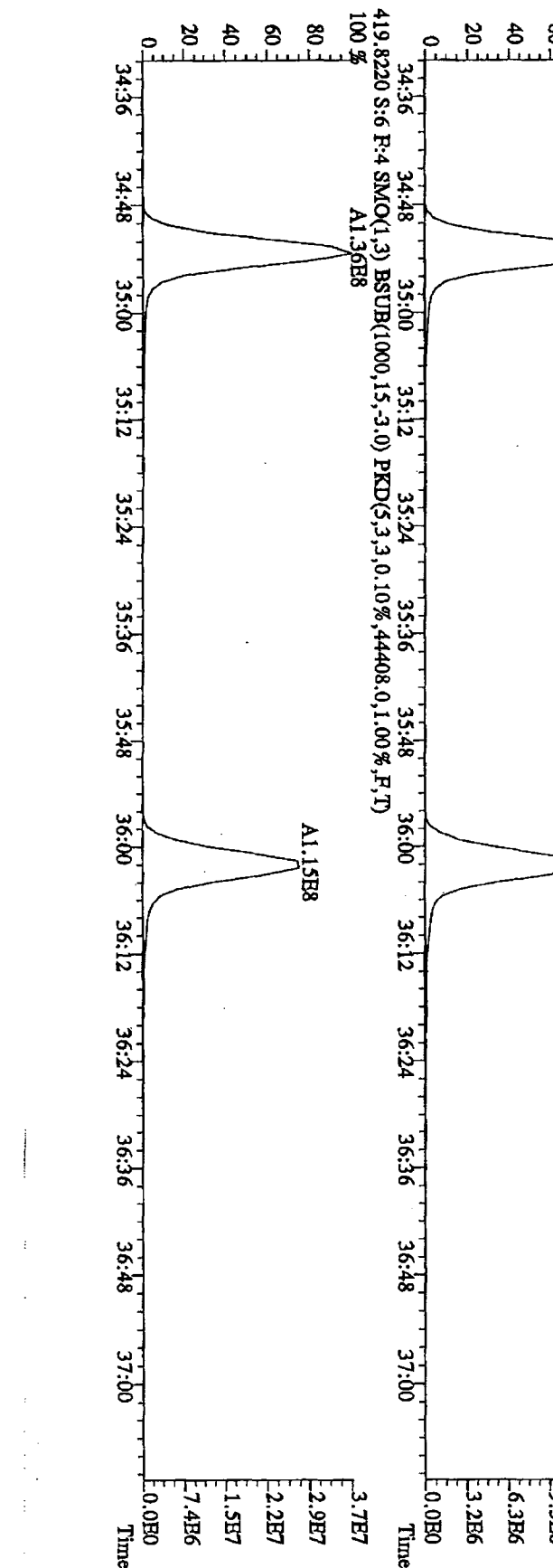
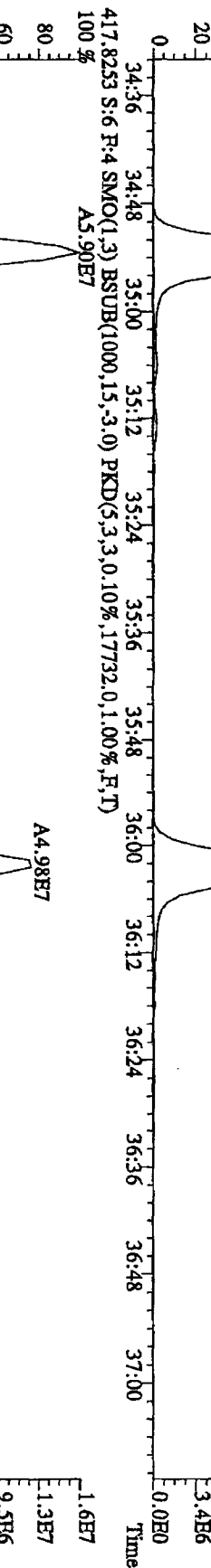
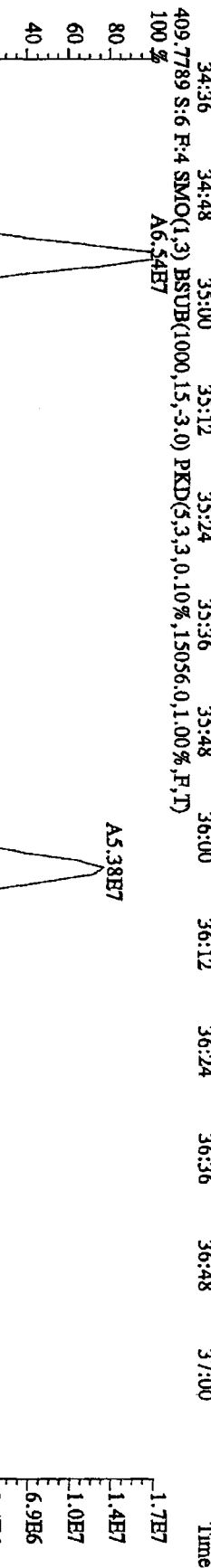
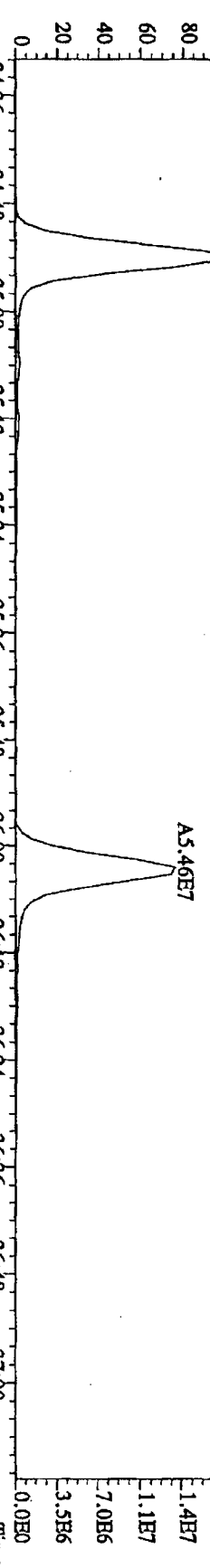


403.8529 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3580,0,1,00%,F,T)

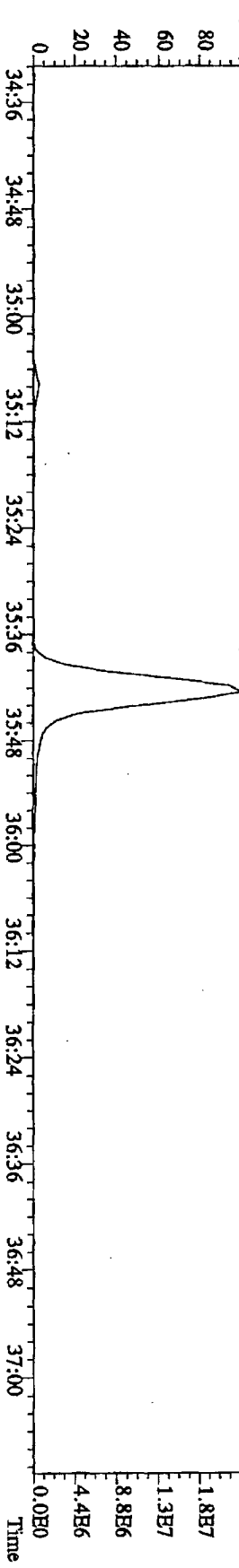
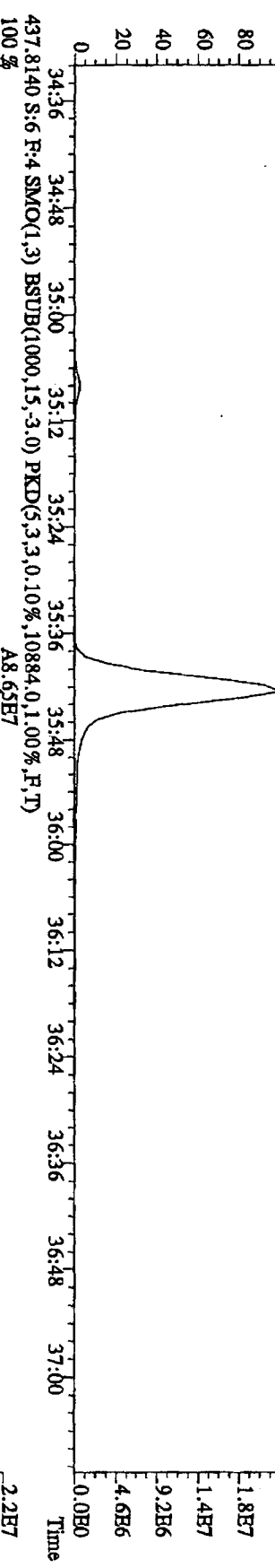
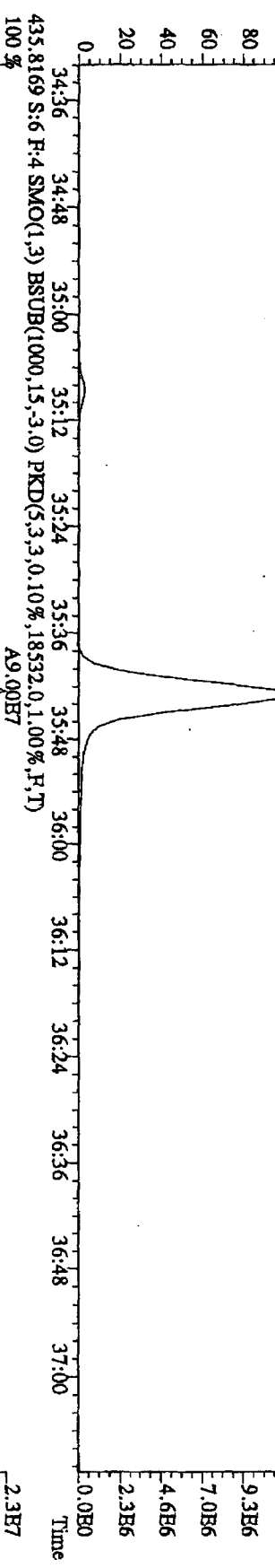
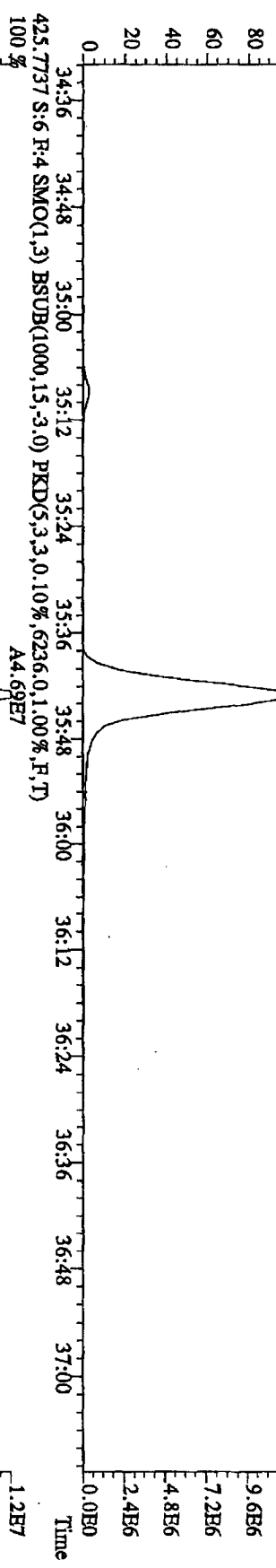


File:21J11,10A4D5 #1-201 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-Ultimate

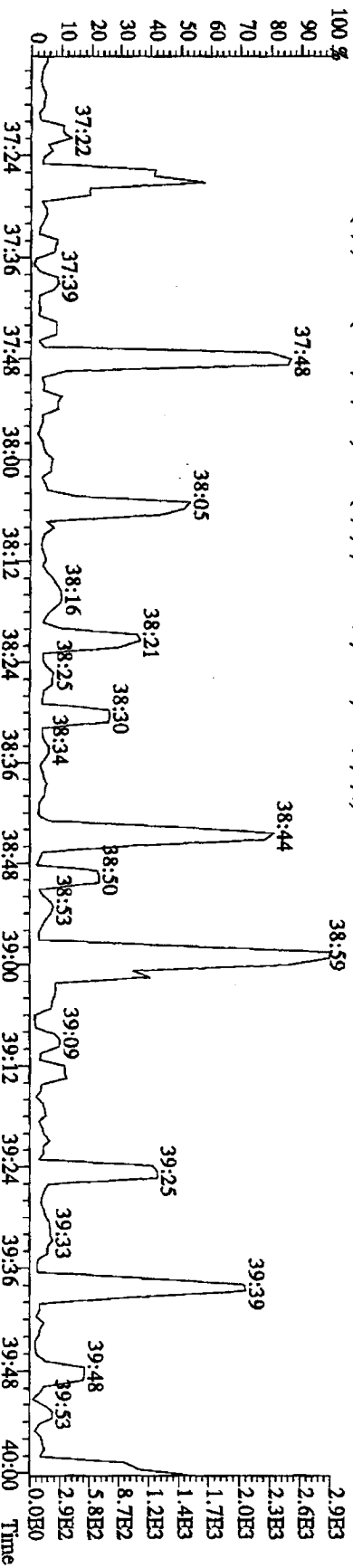
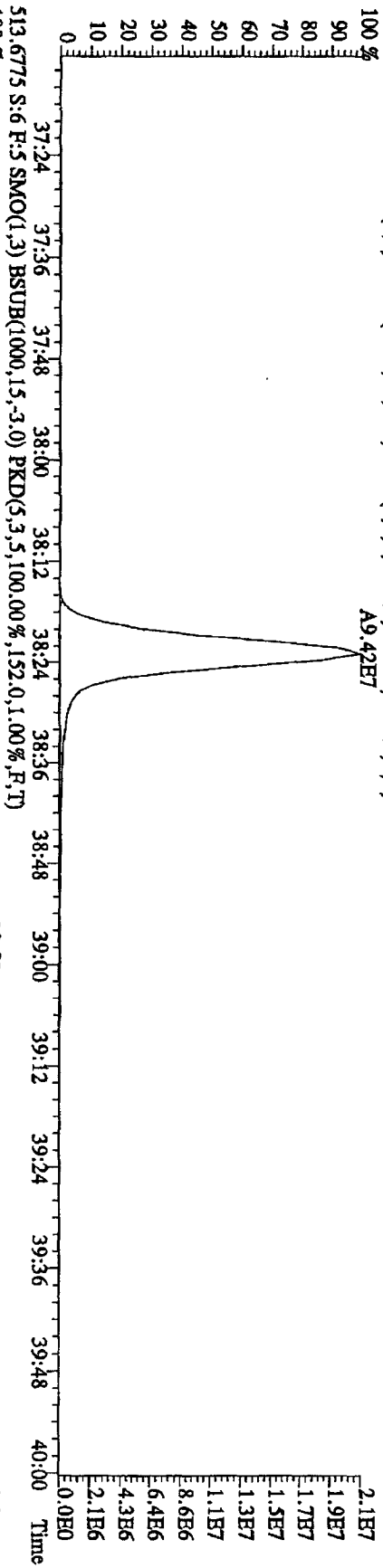
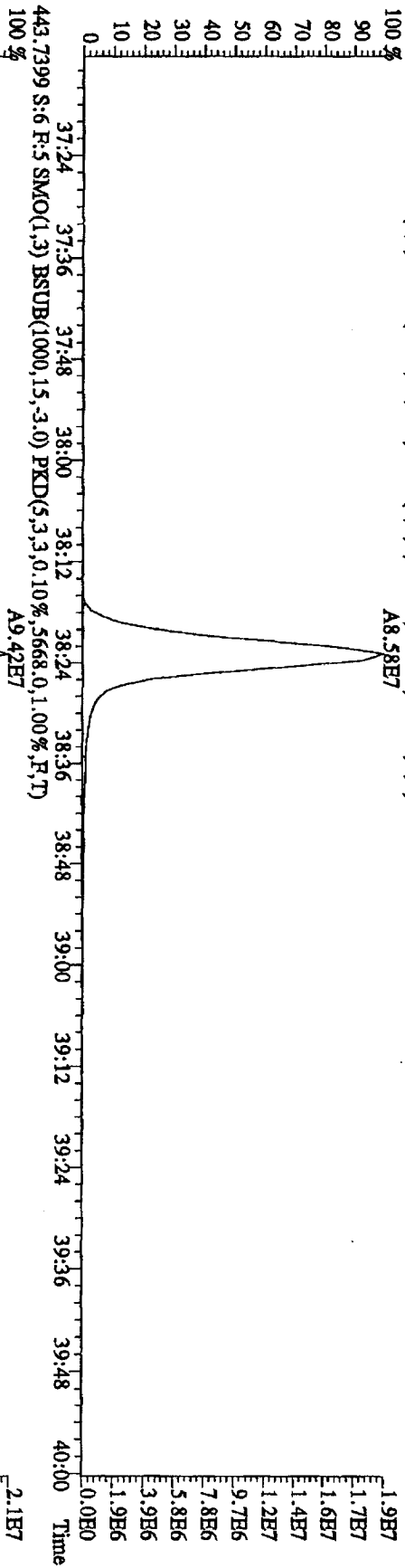
Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES



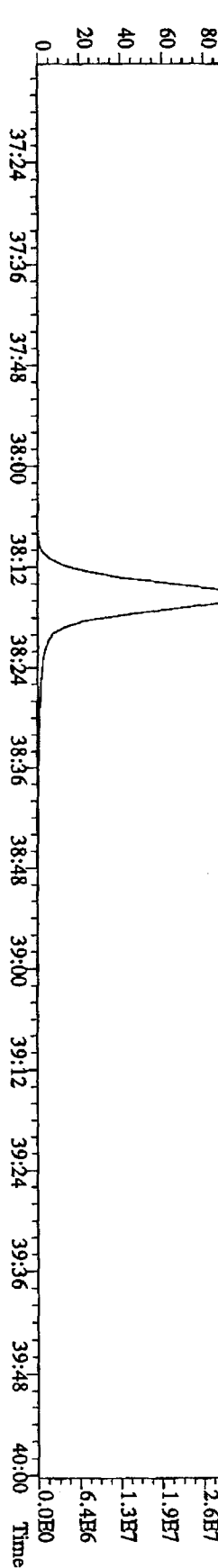
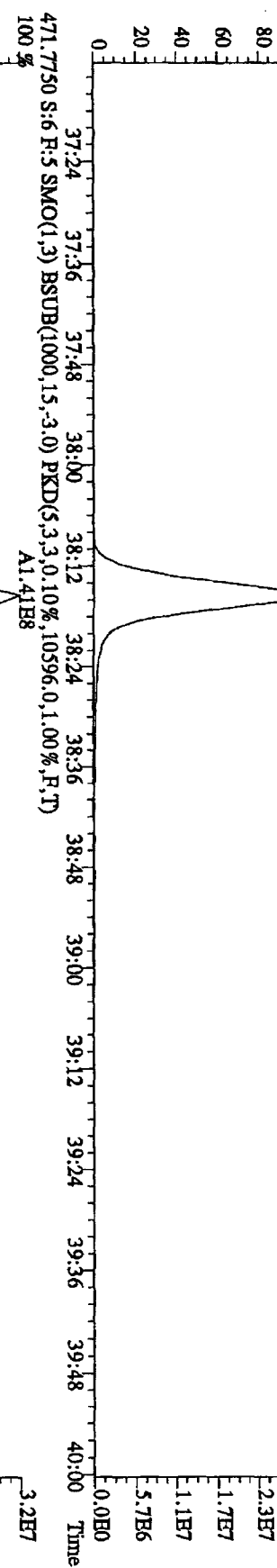
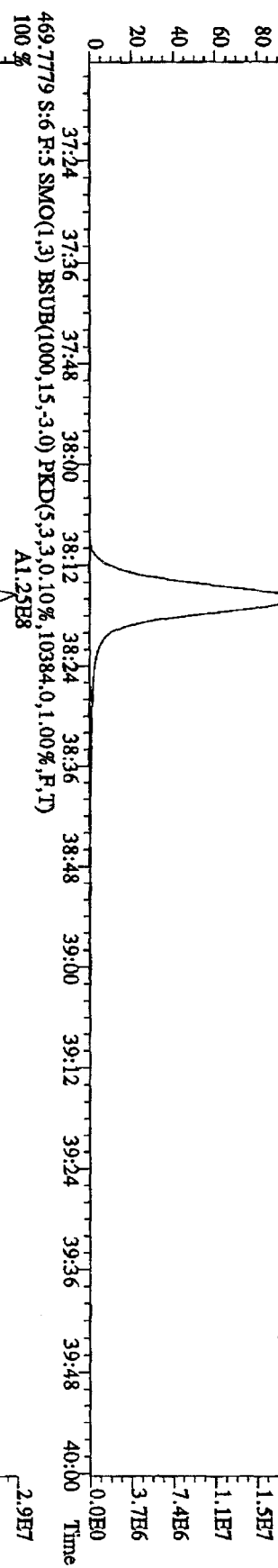
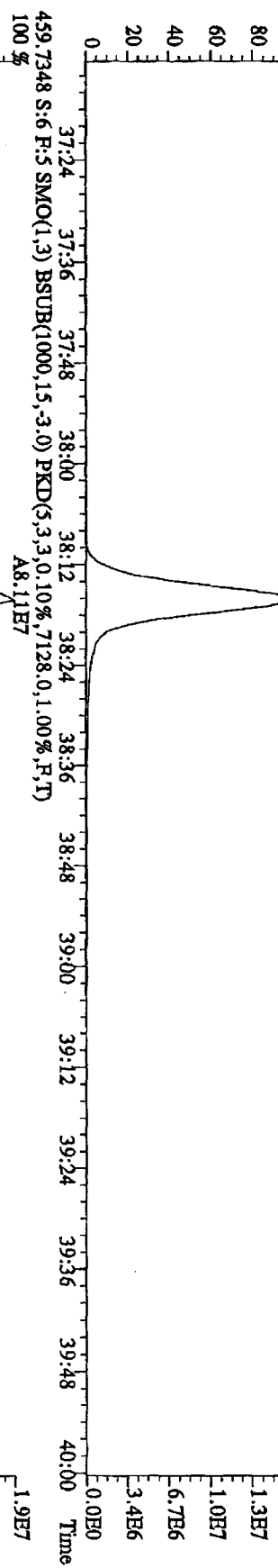
File: 211L10A4D5 #1-201 Acq: 21-JUL-2010 18:18:56 GC EI+ Voltage: SIR Autospec-Ultimate  
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRES  
 423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7856,0.1,00%,F,T)  
 100% A4.79E7



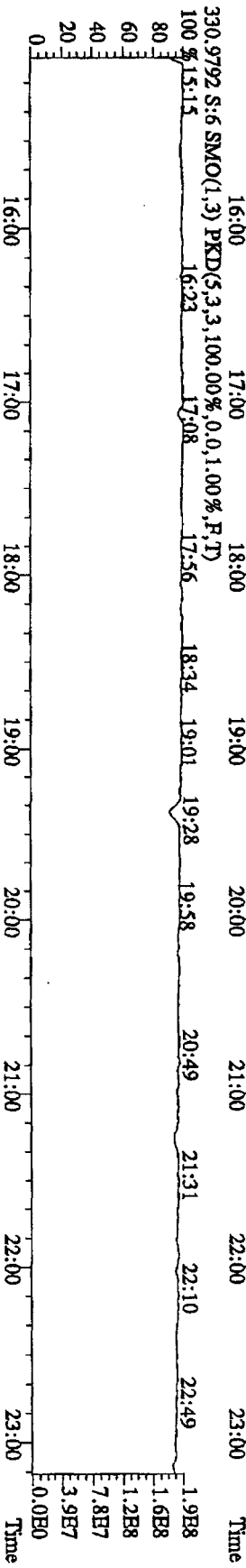
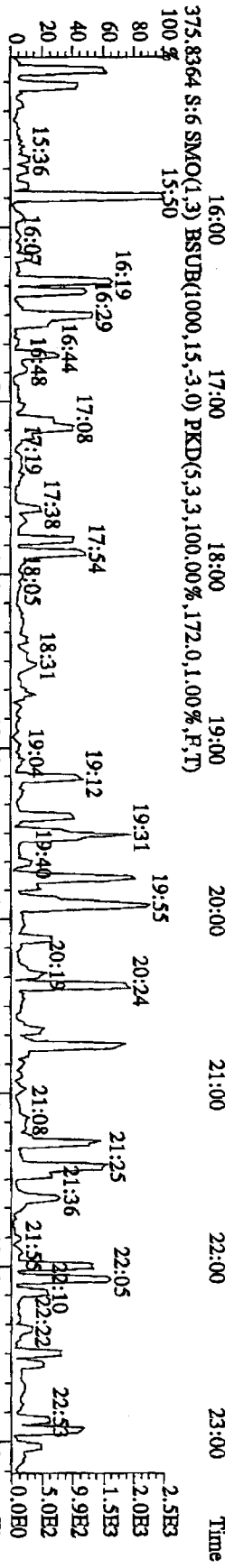
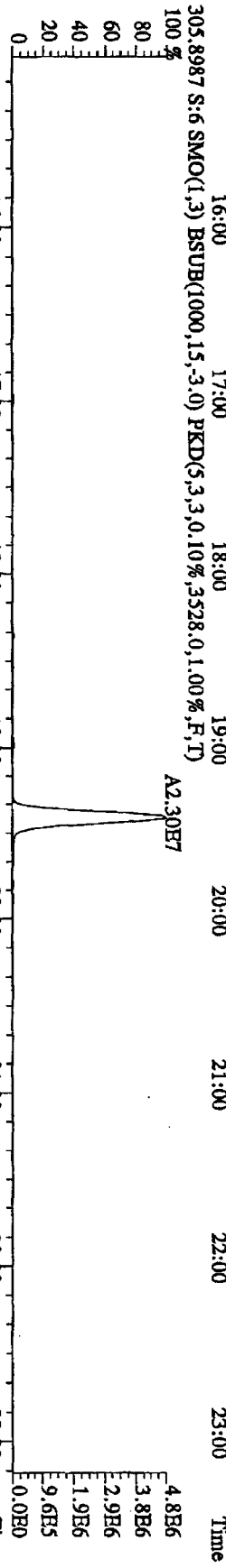
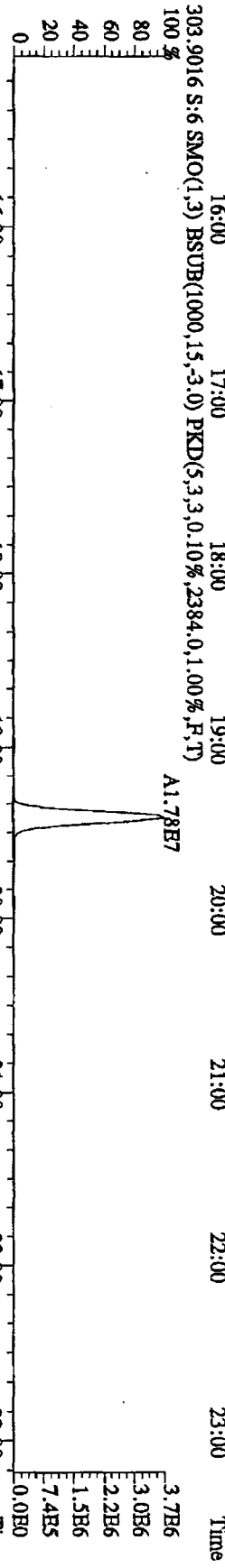
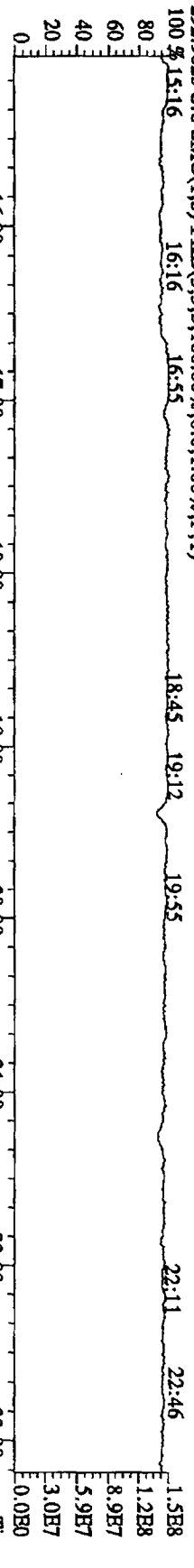
File:21JUL10A4D5 #1-227 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES  
 441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,3800.0,1.00%,F,T)  
 100% A8.58E7



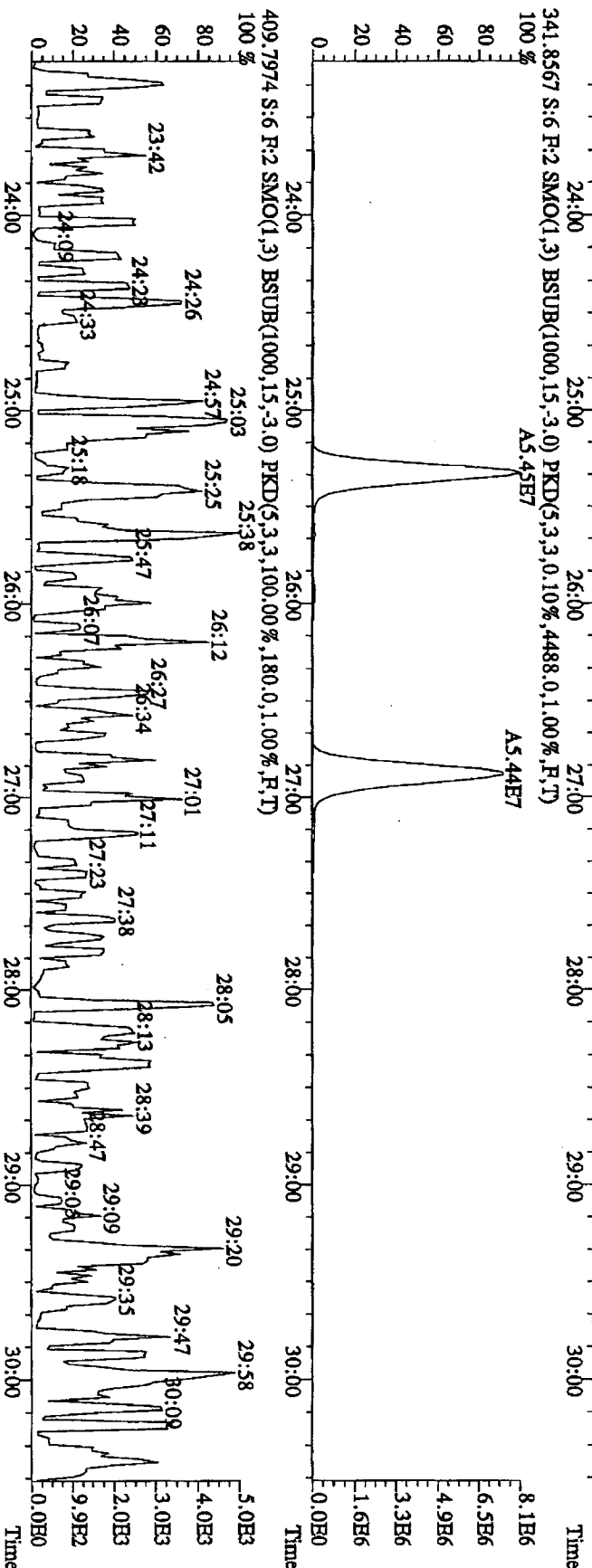
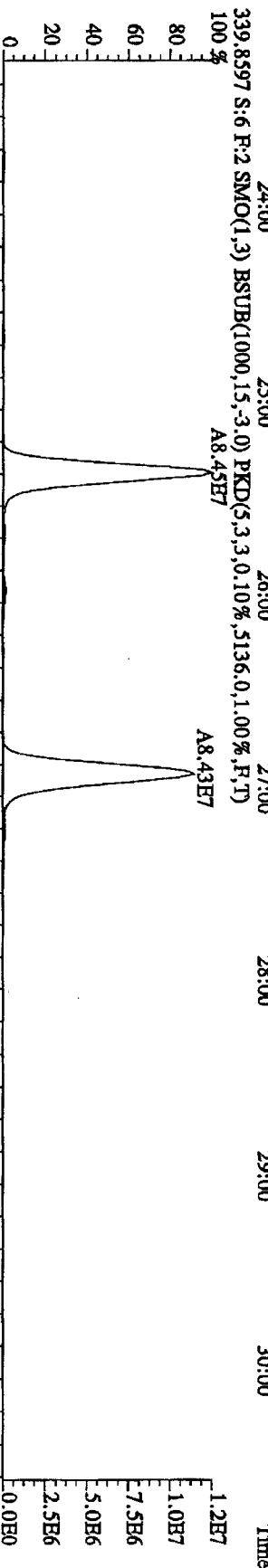
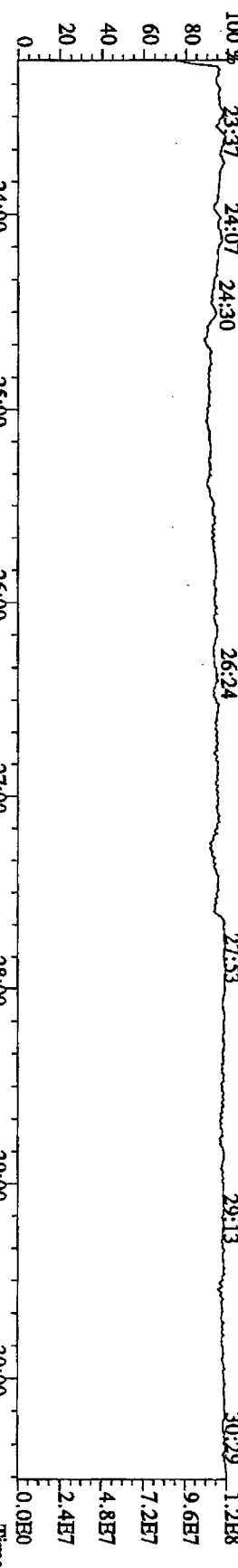
File:21UL10A4D5 #1-227 Acq:21-JUL-2010 18:18:56 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#6 Text:ST0721C :CS-3 10DXN336 Exp:DIOXINRES  
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3472.0,1.00%,F,T)  
 100% A7.29E7



File: 21JL10A4D5 #1-541 Acq: 21-JUL-2010 18:18:56 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#6 Text: STU721C :CS-3 10DXN336 Exp: DIOXINRES  
 292.9825 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)  
 100% 15:16 16:16 16:55 18:45 19:12 19:55 22:11 22:46

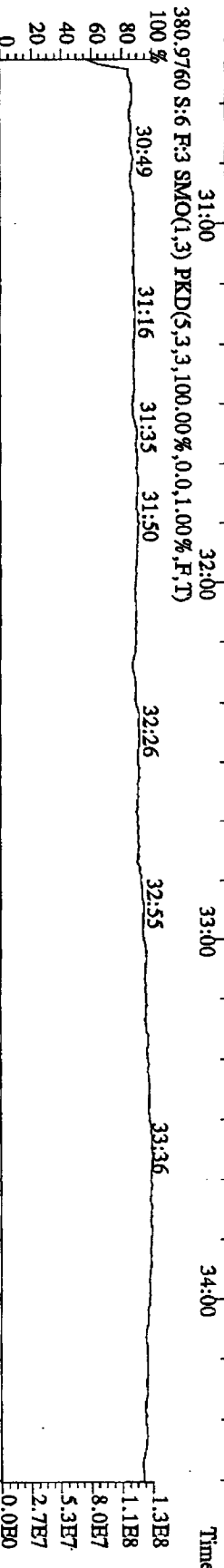
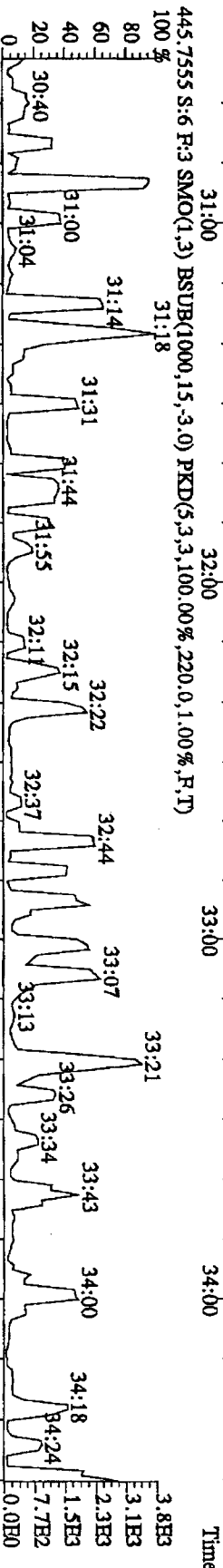
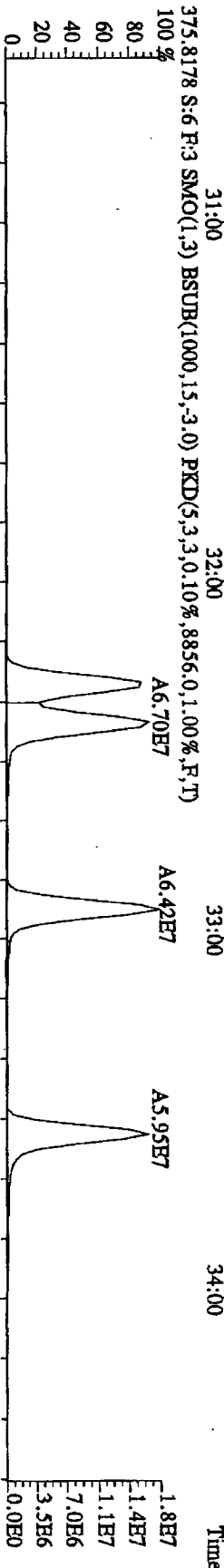
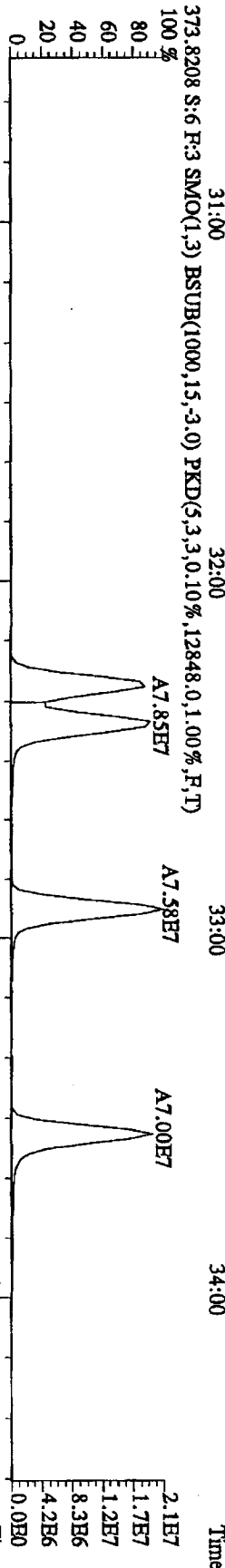
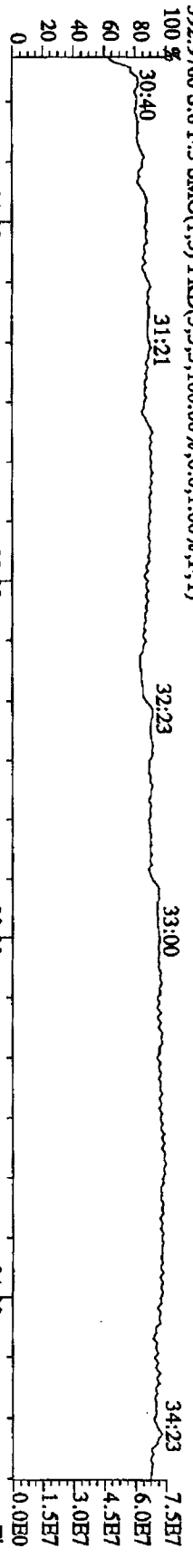


File: 211L10A4D5 #1-470 Acq: 21-JUL-2010 18:18:56 GC HI+ Voltage STR Autoproc-UltimaB  
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRBS  
 342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 23:37 24:07 24:30 26:24 27:53 29:13 30:29

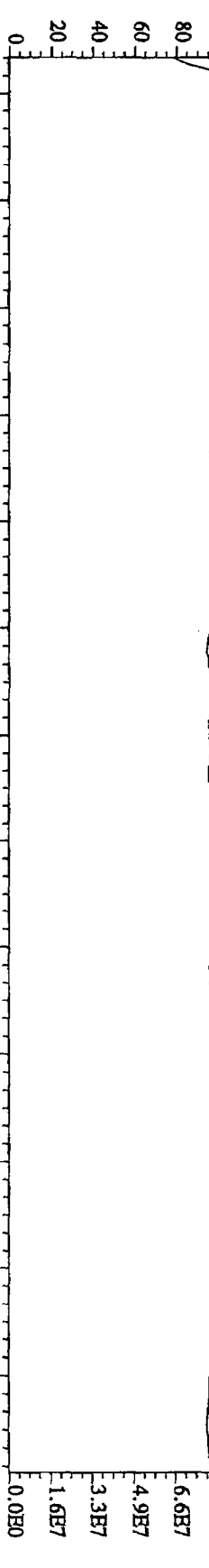




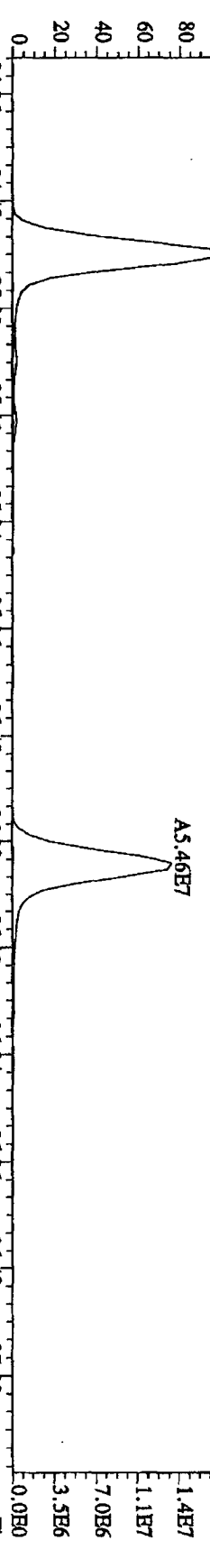
File: 21JL10A4D5 #1-286 Acq: 21-JUL-2010 18:18:56 GC HI + Voltage SIR Autospec-Ultimate  
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRES  
 392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



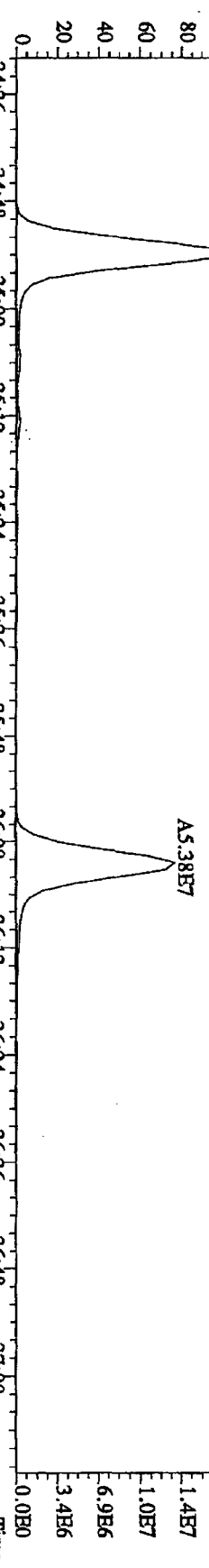
File: 211L10A4D5 #1-201 Acq: 21-JUL-2010 18:18:56 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXNRES  
 430.9728 S:6 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 100 80 60 40 20 0 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 36:36 36:48 37:00



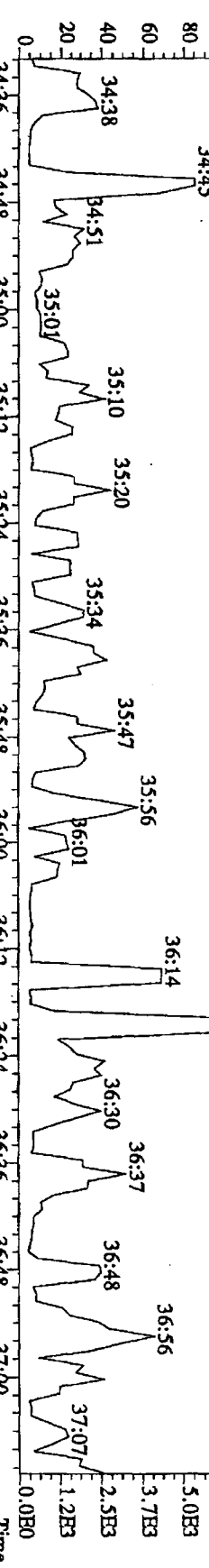
407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10844,0,1,00%,F,T)  
 100 80 60 40 20 0 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 36:36 36:48 37:00



409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15056,0,1,00%,F,T)  
 100 80 60 40 20 0 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 36:36 36:48 37:00



479.7165 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,2096,0,1,00%,F,T)  
 100 80 60 40 20 0 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 36:36 36:48 37:00

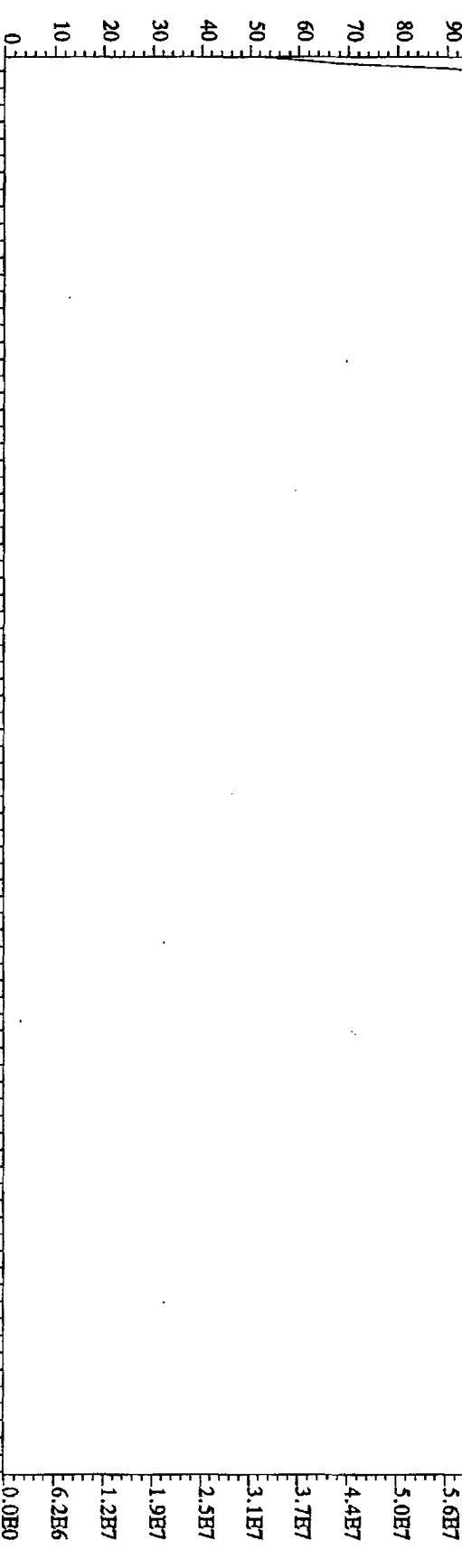


File: 2:JUL10A4D5 #1-227 Acq: 21-JUL-2010 18:18:56 GC HI + Voltage SIR Autospec-UltimaB

Sample#6 Text: ST0721C :CS-3 10DXN336 Exp: DIOXINRES

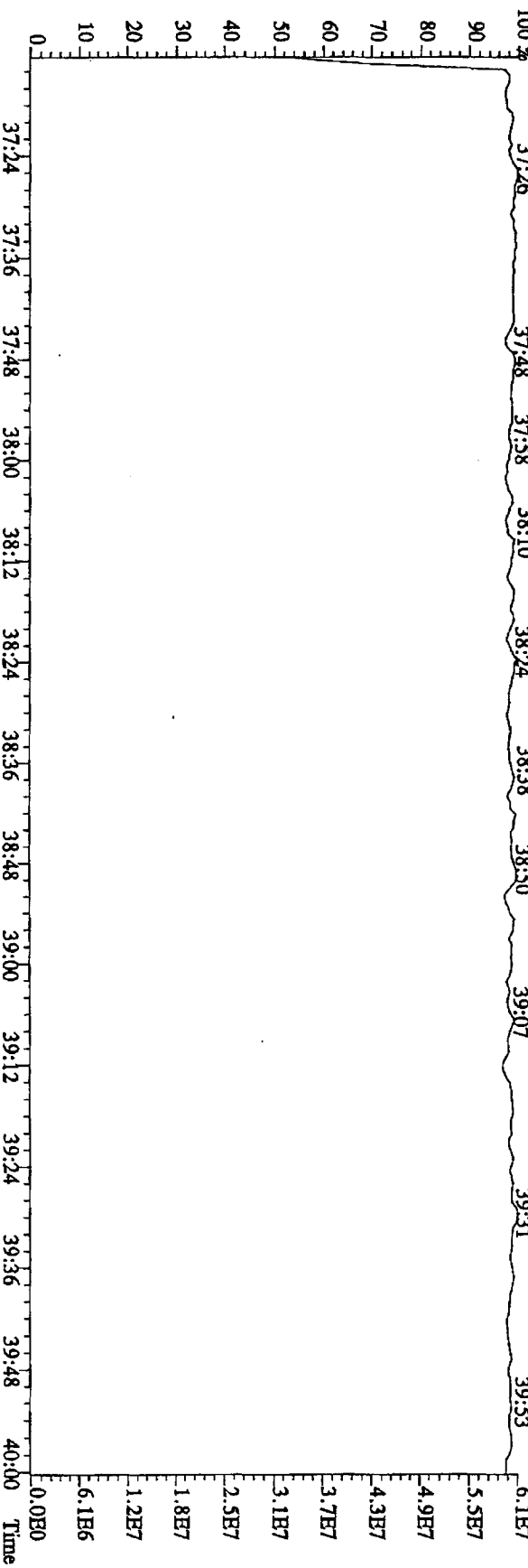
454.9728 S:6 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

37:21 37:33 37:45 38:01 38:13 38:22 38:47 39:03 39:17 39:29 39:42 39:53

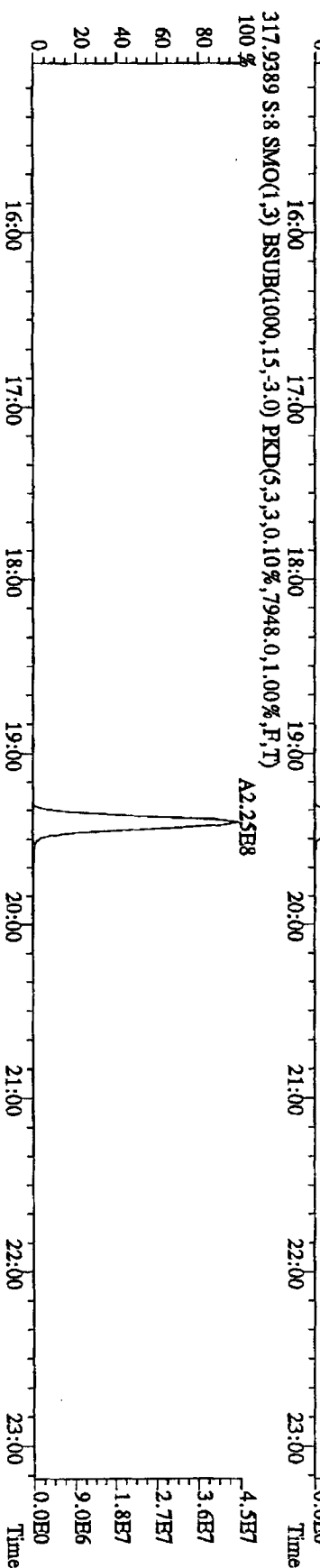
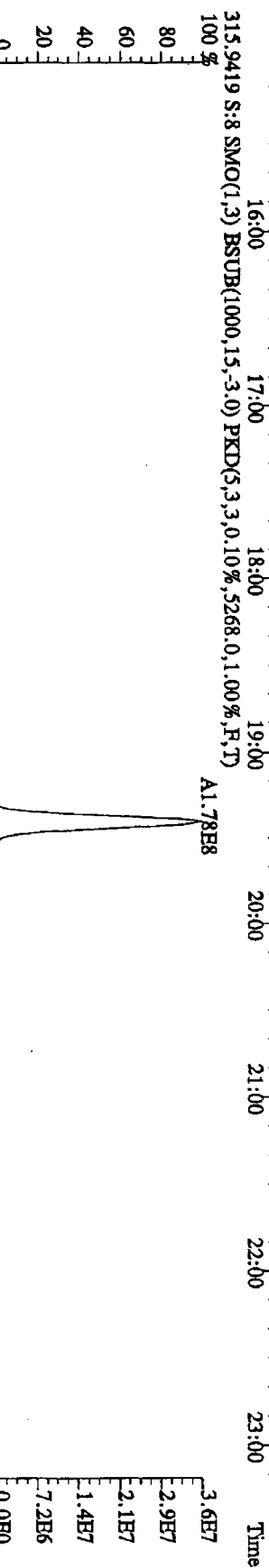
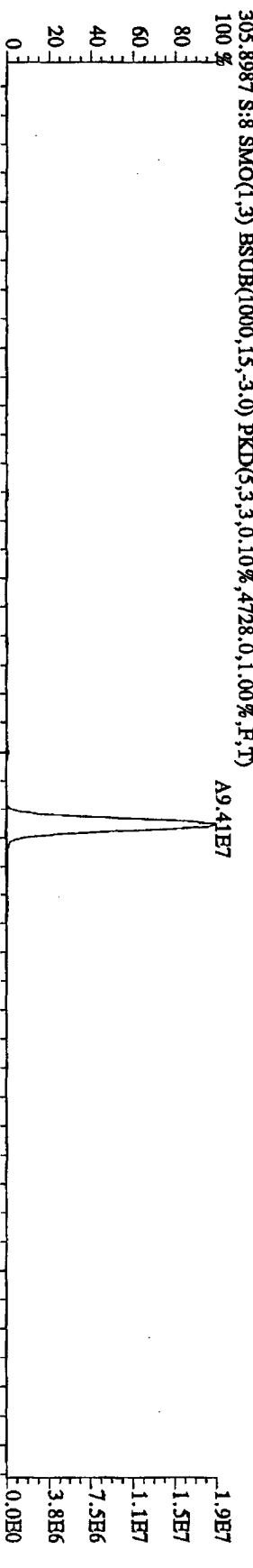
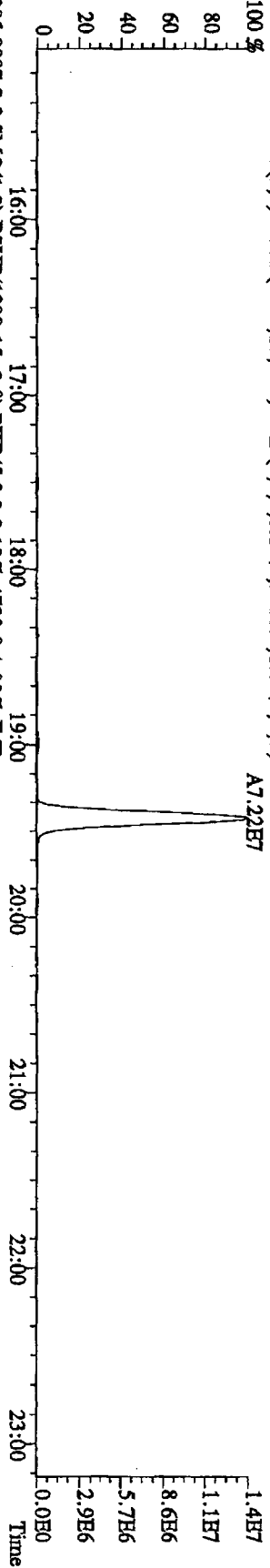


442.9728 S:6 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

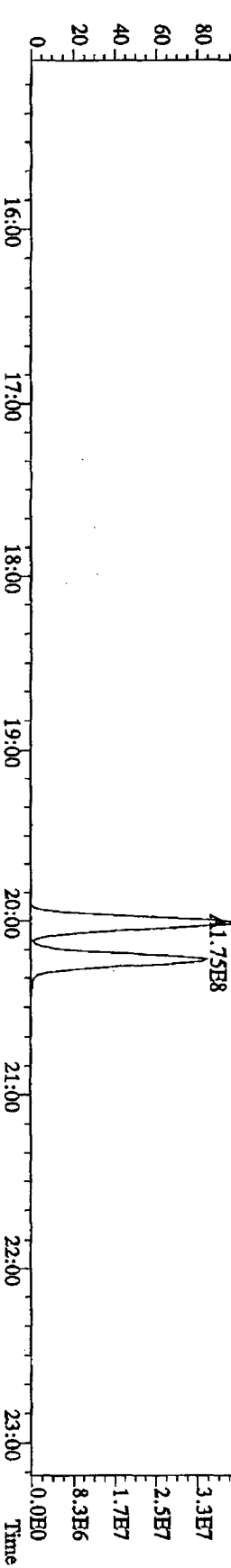
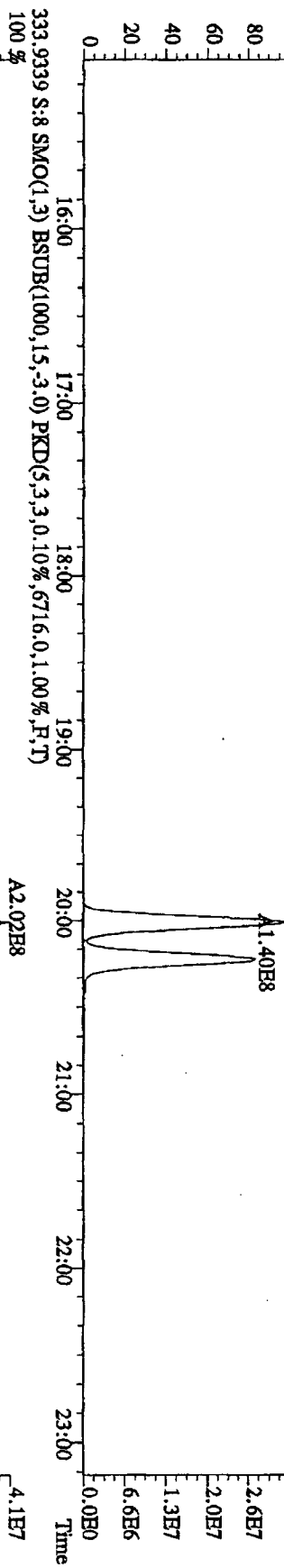
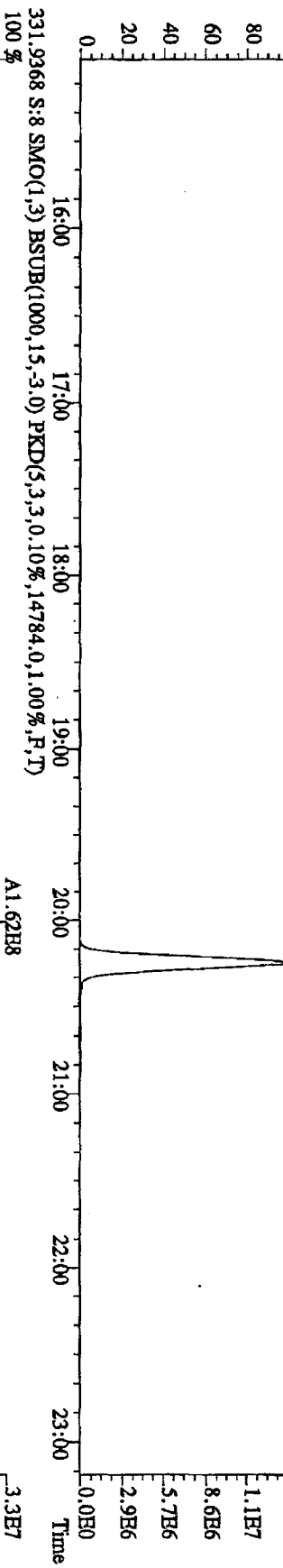
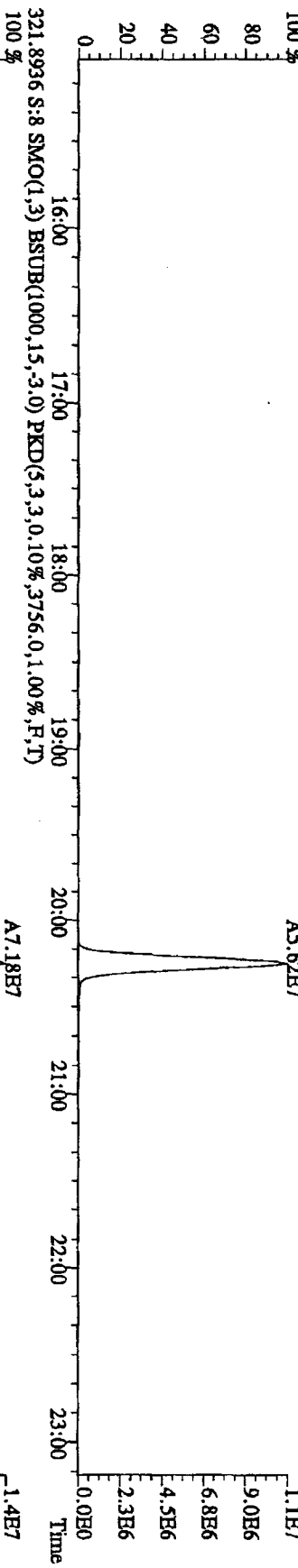
37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 39:12 39:24 39:36 39:48 40:00



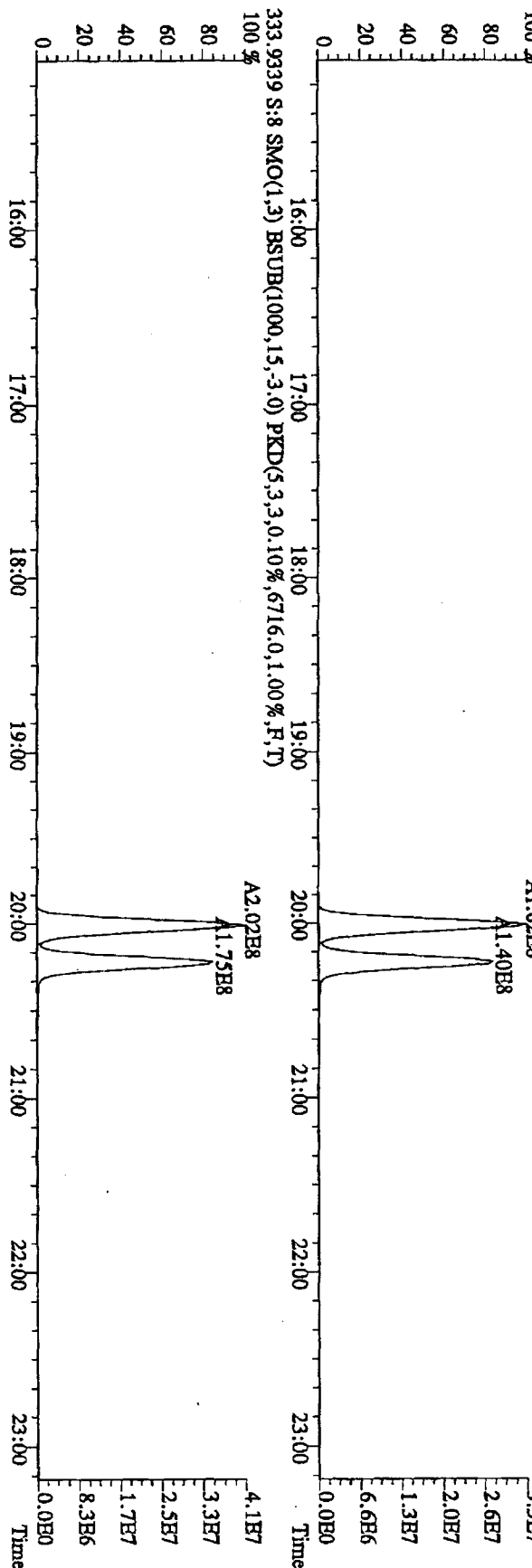
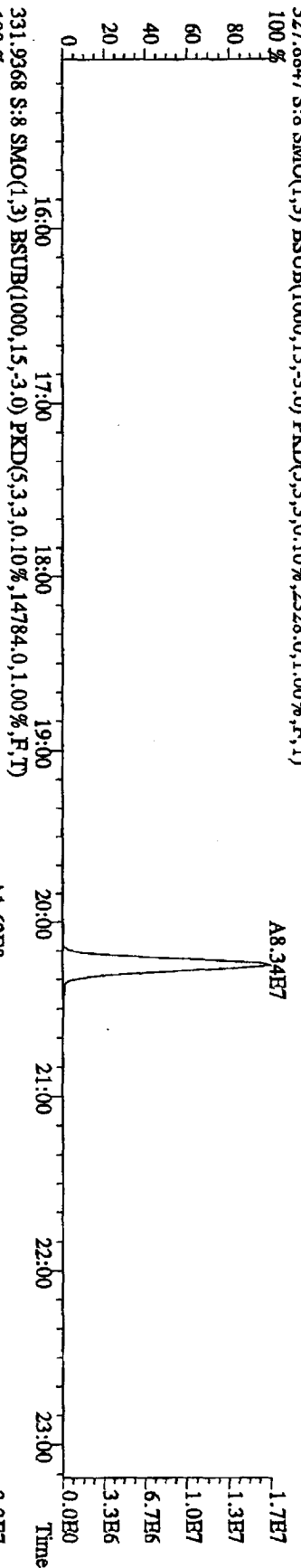
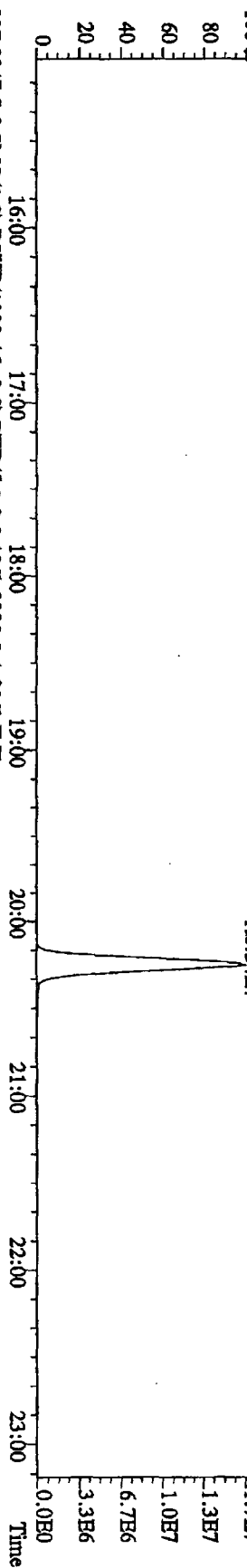
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 19:49:00 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#8 Text: ST0721E :CS-4 10DXN337 Exp: DIOXINRES  
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3860,0.1,00%,F,T)  
 100%



File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage: SIR Autospec-UltimaB  
 Sample#8 Text: ST0721B :CS-4 10DXN337 Exp: DIOXINRES  
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3940,0,1,00%,F,T)

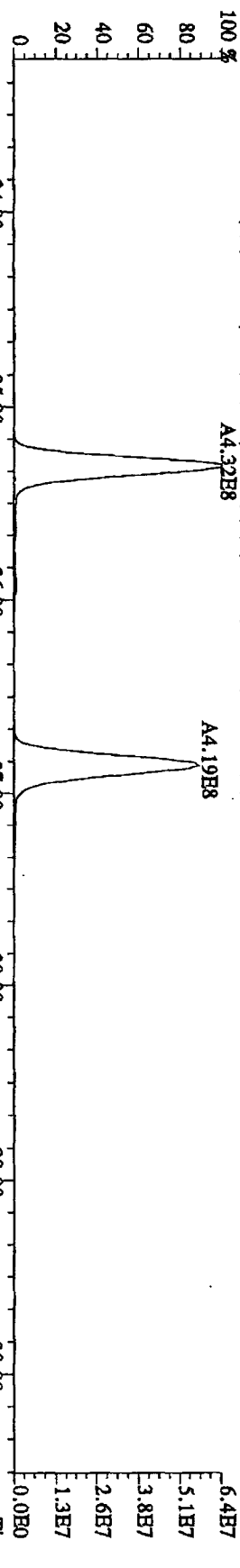


File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRBS  
 327.8847 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2328,0,1,00%,F,T)  
 100%

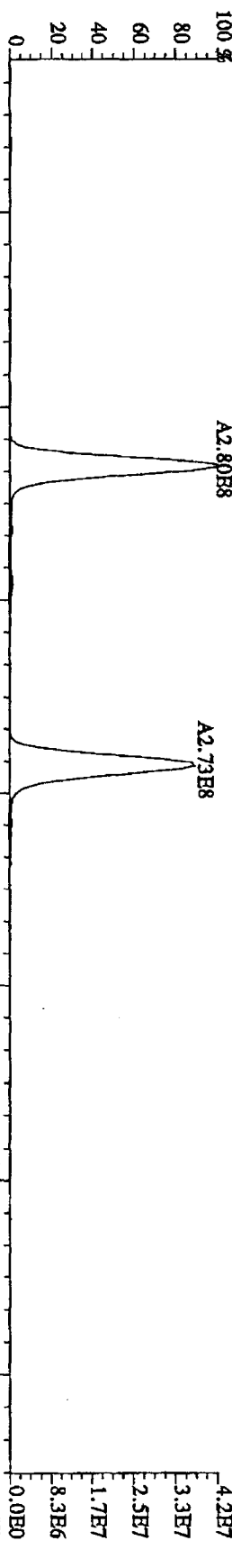


File:21JUL10A4D5 #1-469 Acq:21-JUL-2010 19:49:00 GC HI+ Voltage SIR Autospec-UltimaE  
Exp:DIOXINRES

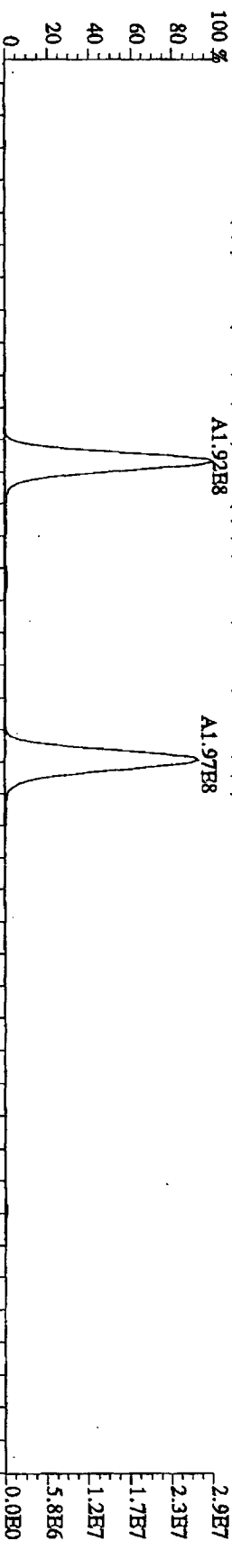
Sample#8 Text:ST0721E :CS-4 10DXN337  
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6412,0,1,00%,F,T)



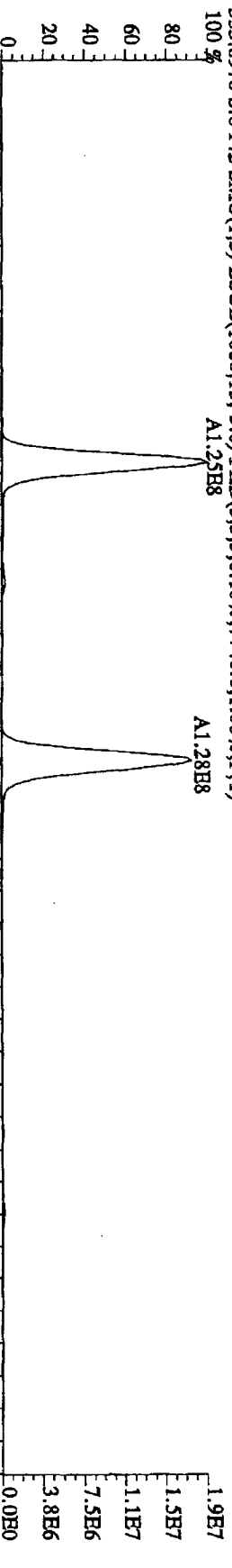
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9640,0,1,00%,F,T)



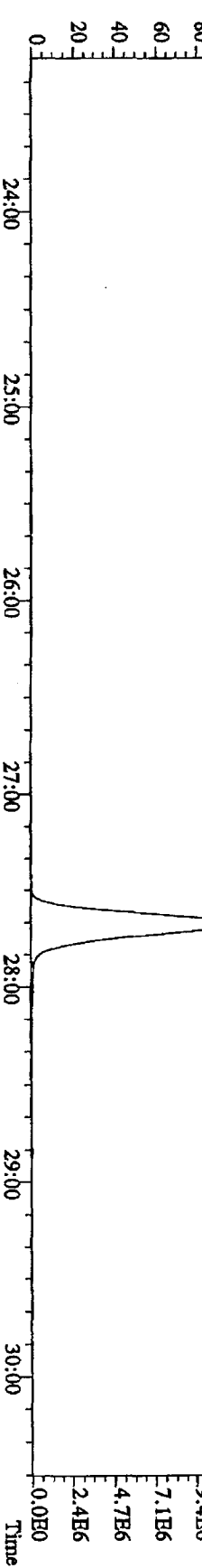
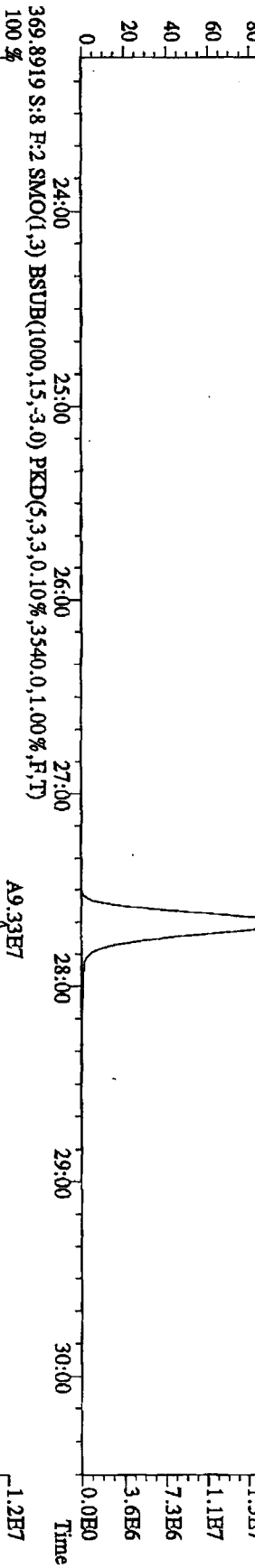
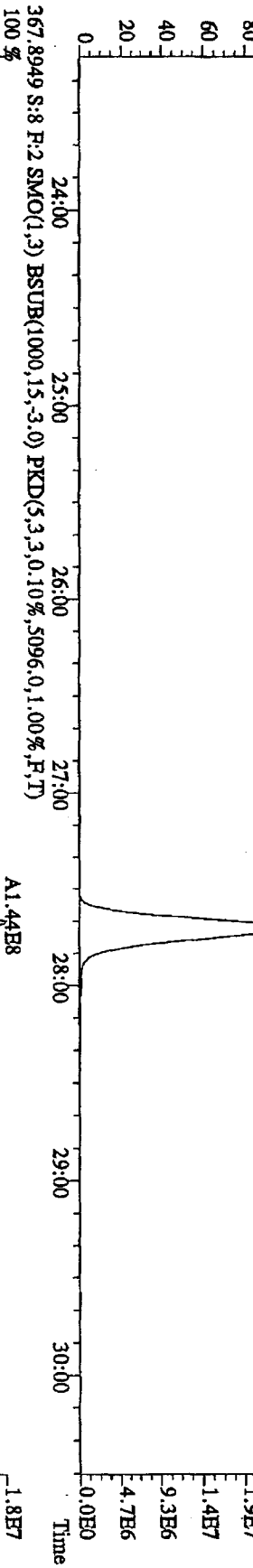
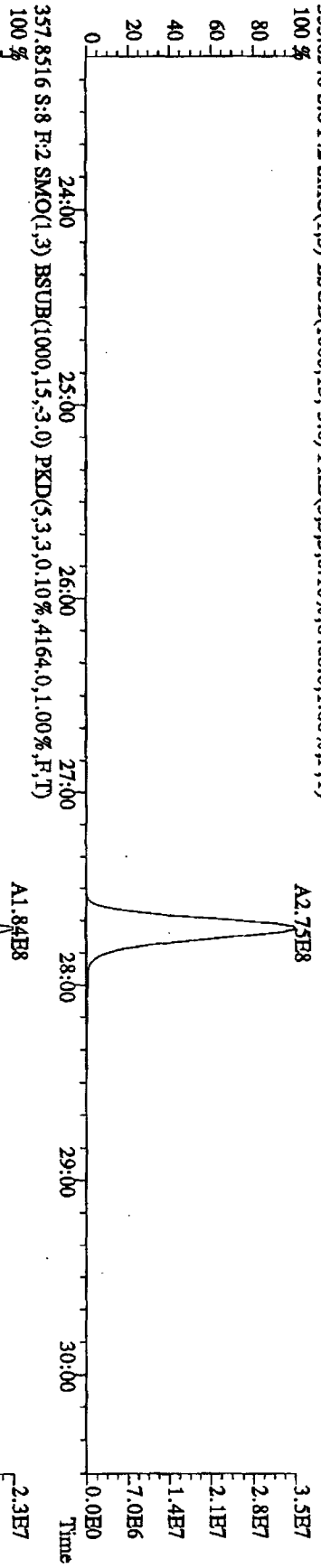
351.9000 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7520,0,1,00%,F,T)



353.8970 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7740,0,1,00%,F,T)



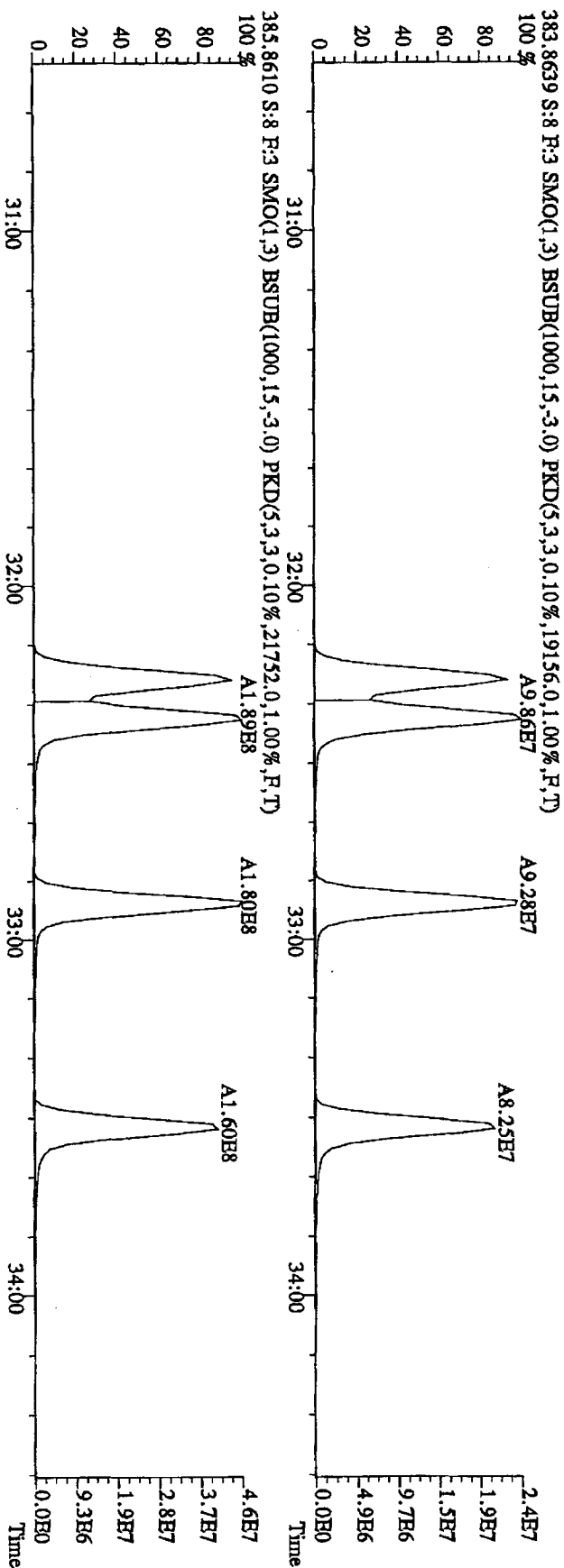
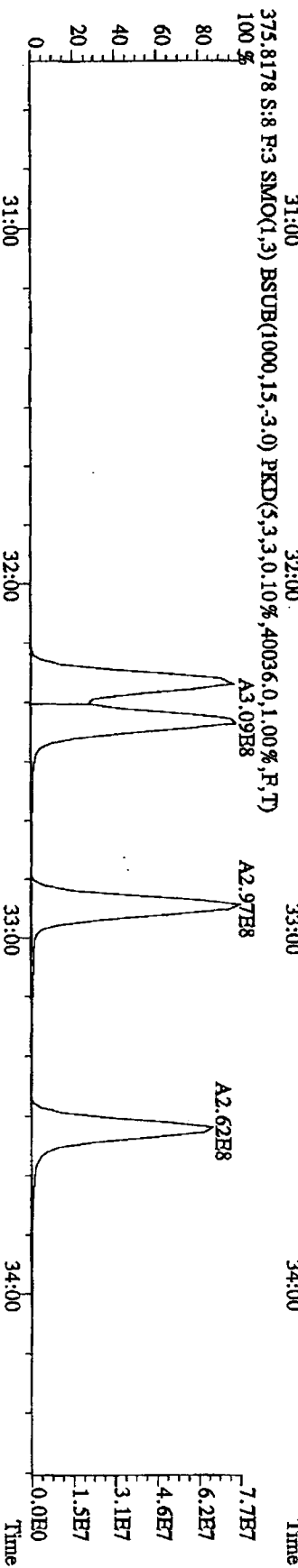
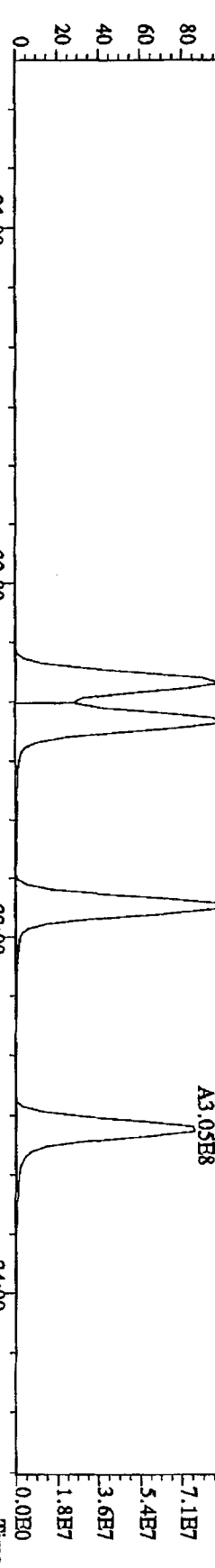
File:21JUL10AAD5 #1-469 Acq:21-JUL-2010 19:49:00 GC:EI+ Voltage:50V Autospec-UltraE  
 Sample:#8 Text:ST0721B :CS-4 10DXN337 Exp:DIOXINRES  
 355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6468.0,1.00%,F,T)



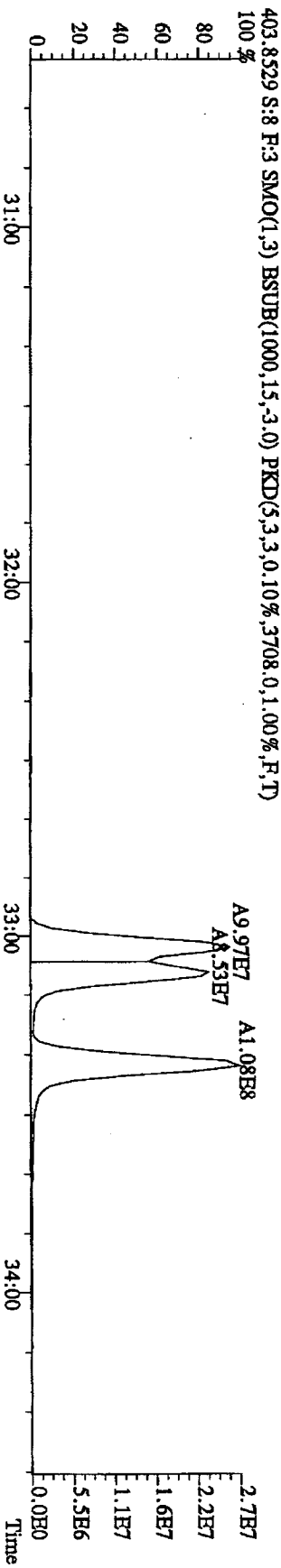
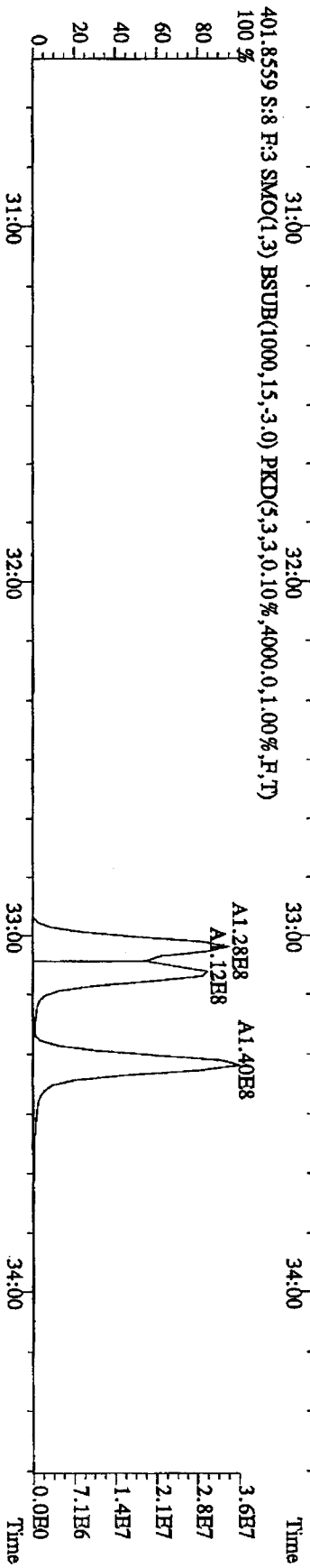
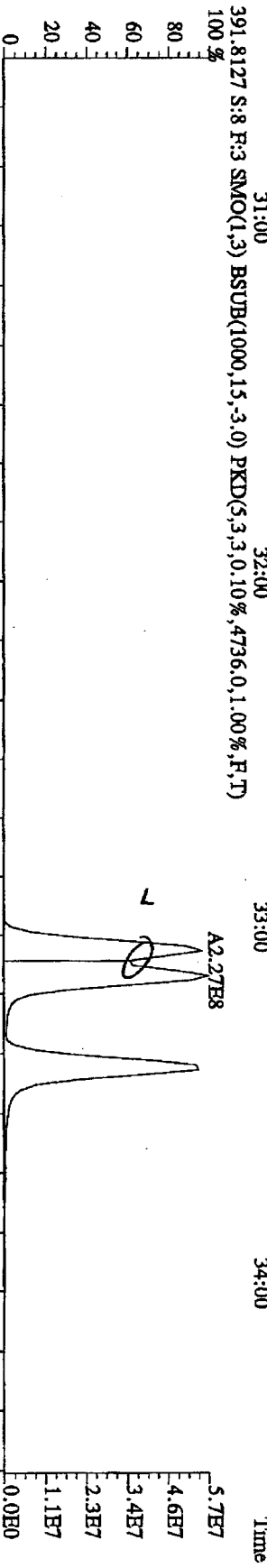
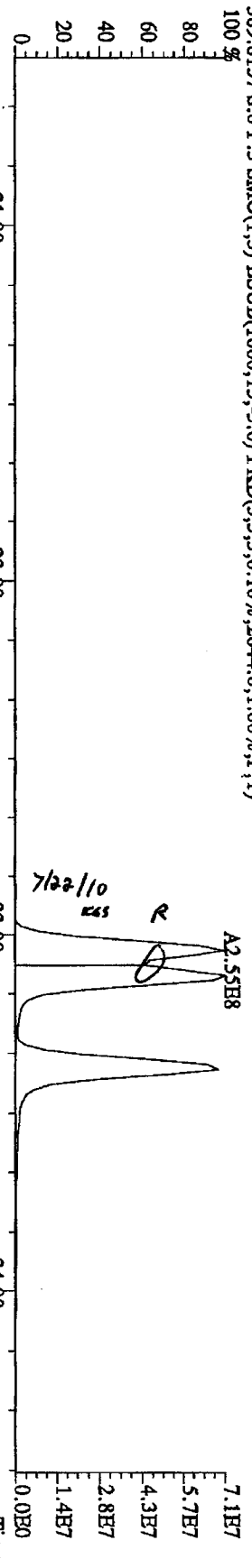


File: 21JUL10A4D5 #1-287 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-Ultimate

Sample#8 Text: ST0721H : CS-4 10DXN337 Exp: DIOXINRES

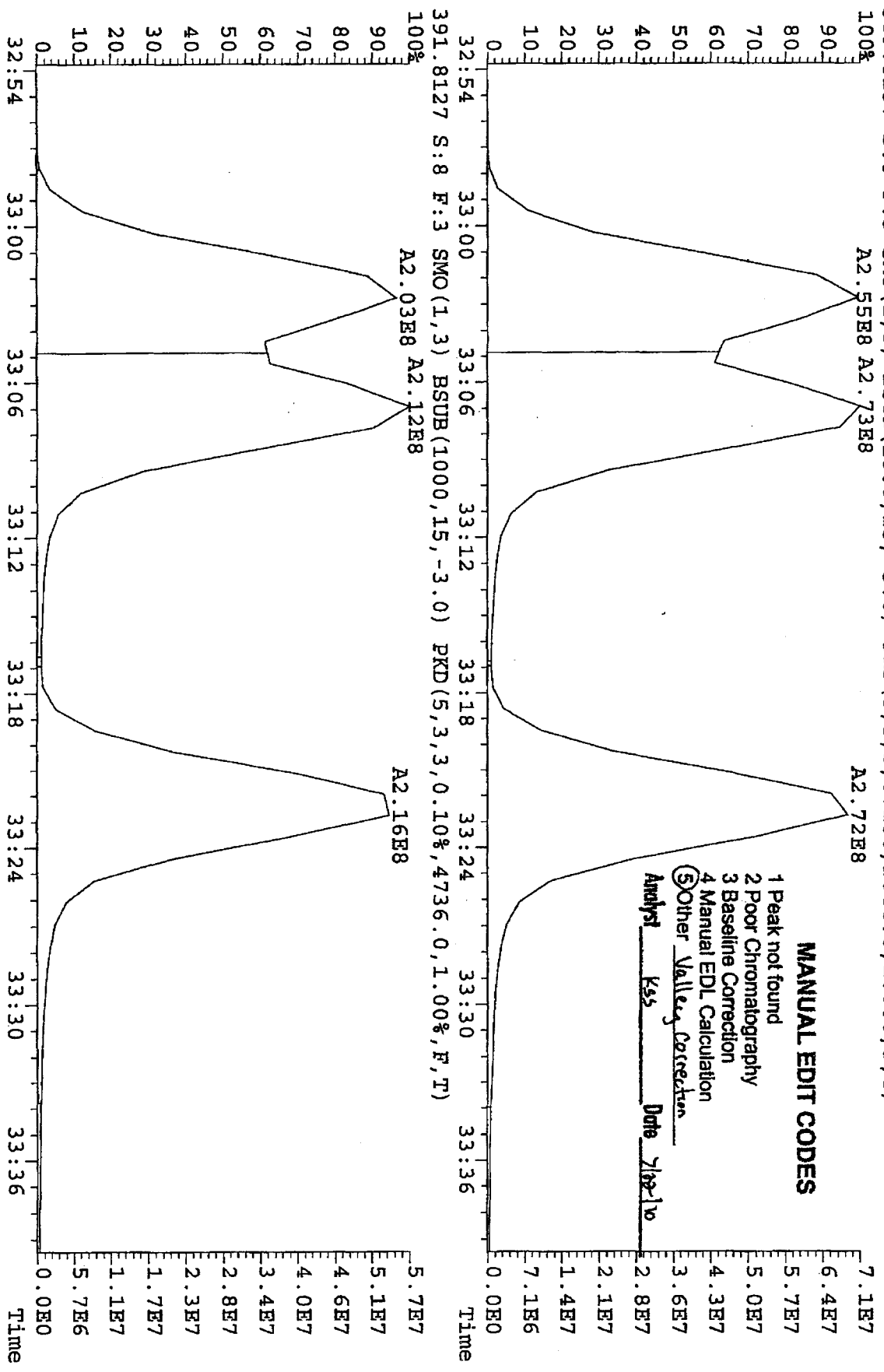


File: 21JUL10A4D5 #1-287 Acq: 21-JUL-2010 19:49:00 GC BI+ Voltage SIR Autospec-UltraB  
 Sample#8 Text: ST0721B :CS-4 10DXN337 Exp: DIOXINRES  
 389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2644,0,1,00%,F,T)

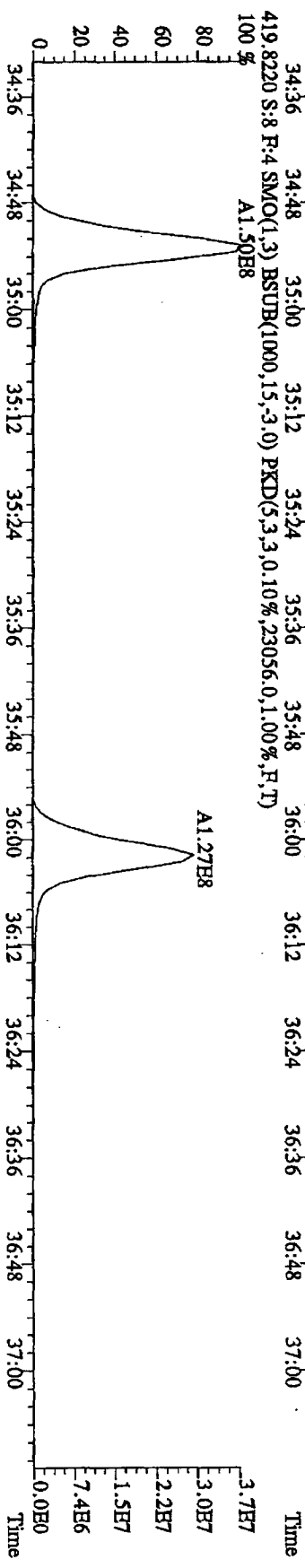
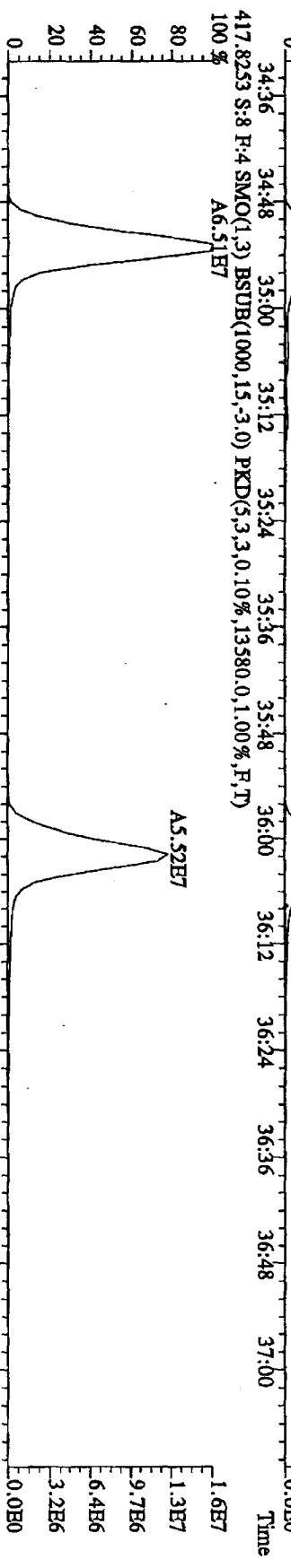
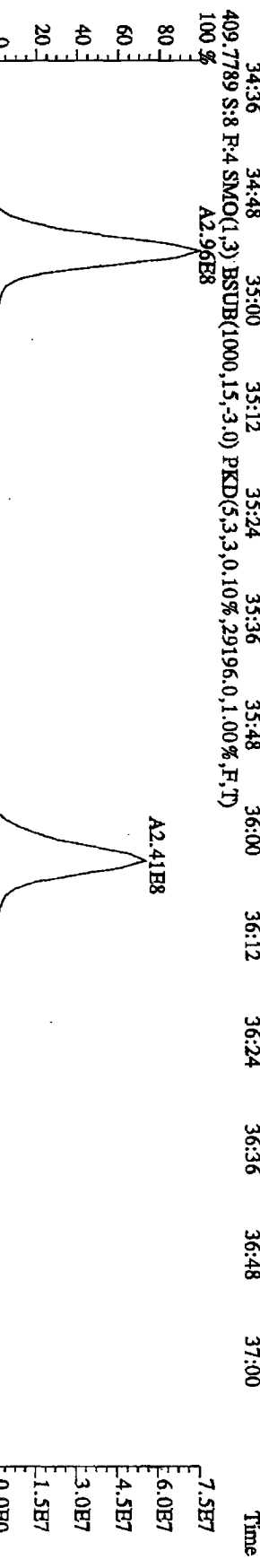
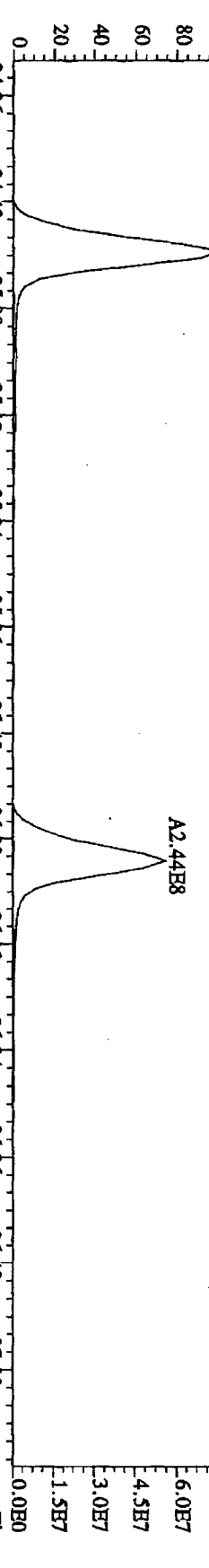


File: 21JUL10A4D5 #1-287 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 Text: ST0721E : CS-4 10DXN337 Exp: DIOXINRES  
 389.8157 S: 8 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2644.0,1.00%,F,T)  
 100% A2.55E8 A2.73E8 A2.72E8

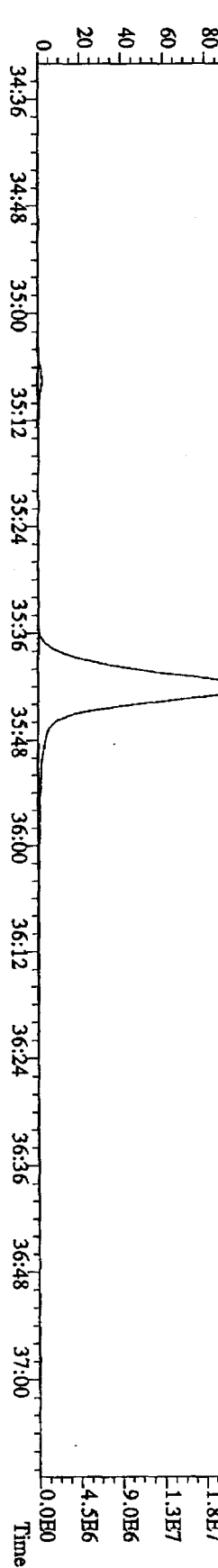
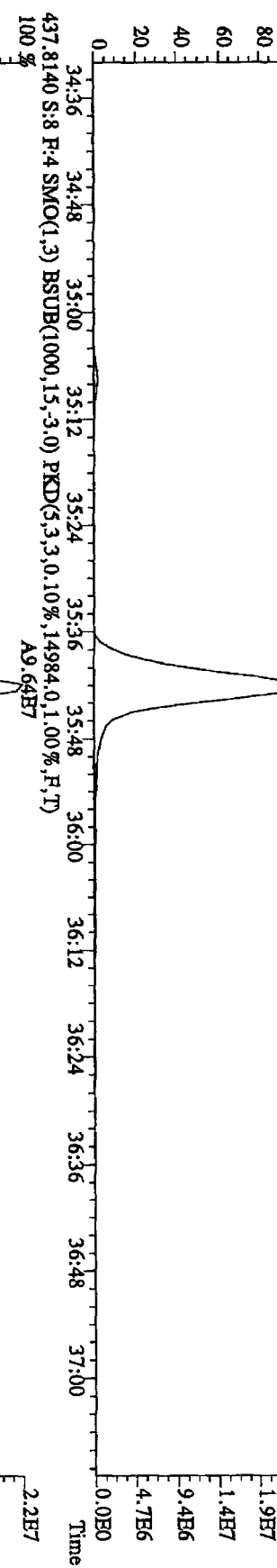
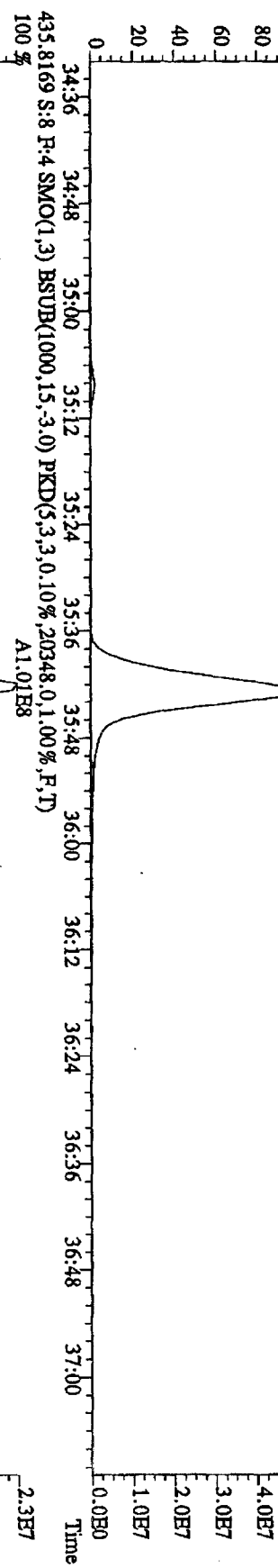
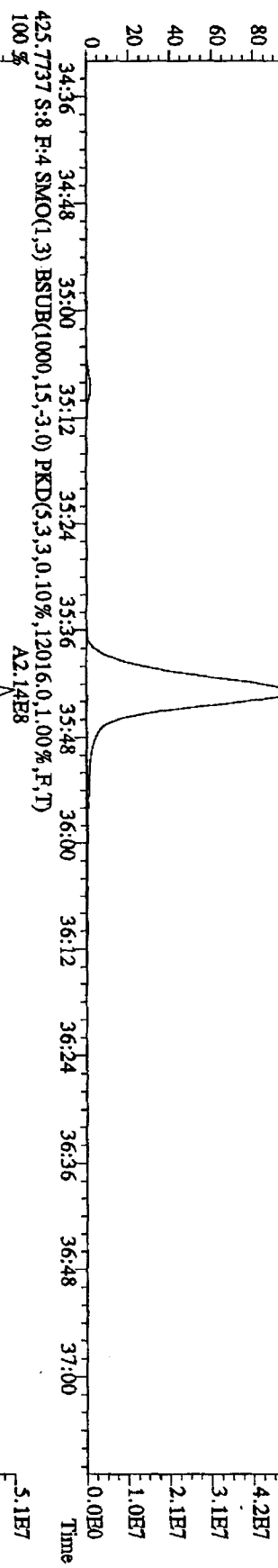
**MANUAL EDIT CODES**  
 1 Peak not found  
 2 Poor Chromatography  
 3 Baseline Correction  
 4 Manual EDL Calculation  
 5 Other Valley Correction  
 Analyst Kss Date 7/22/10



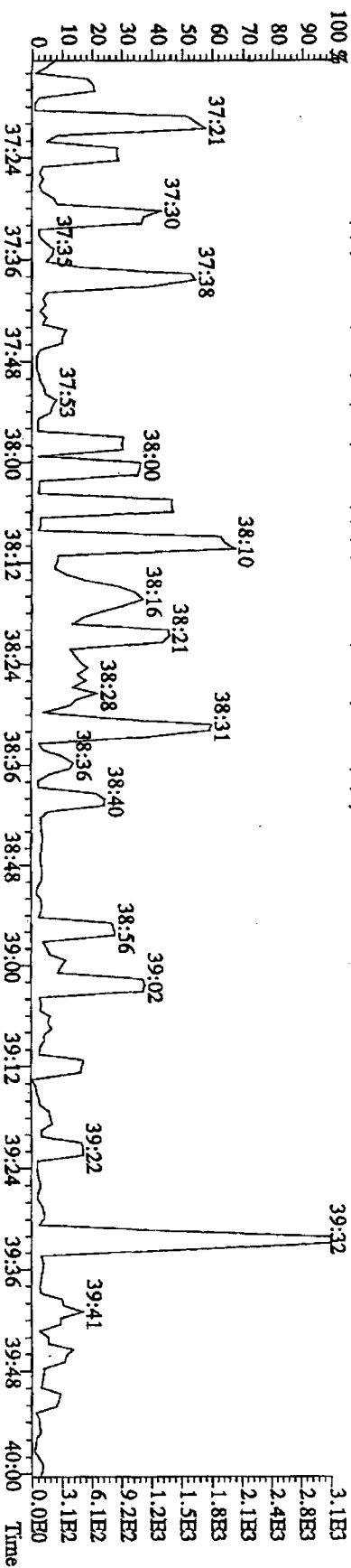
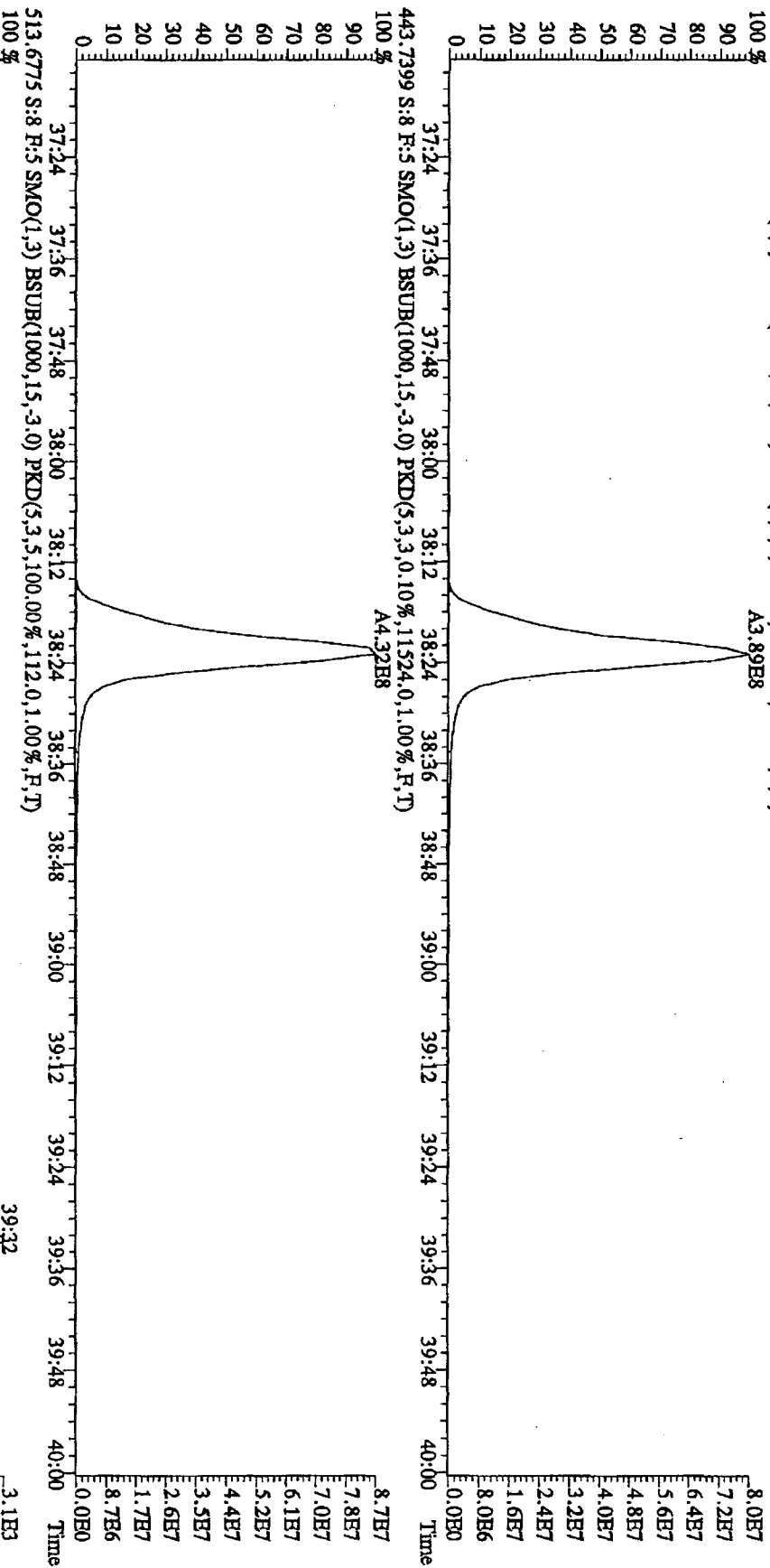
File: 21JUL10A4D5 #1-201 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage: 50V STR Autospec-Ultimate  
 Sample#8 Text: ST0721E :CS-4 10DXN337 Exp: DIOXINRES  
 407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,41352.0,1.00%,F,T)



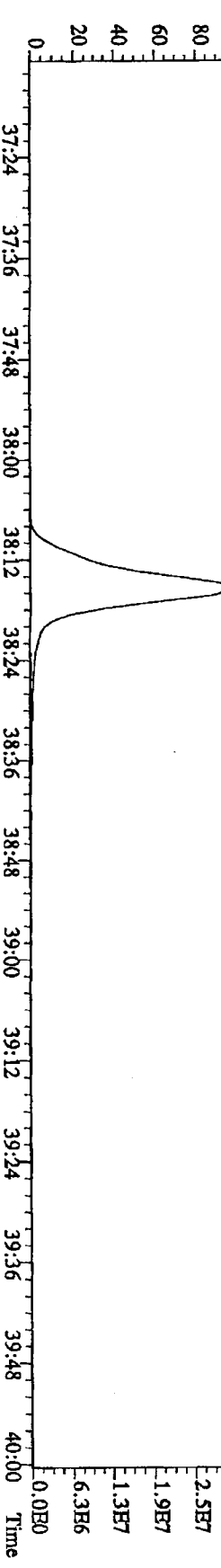
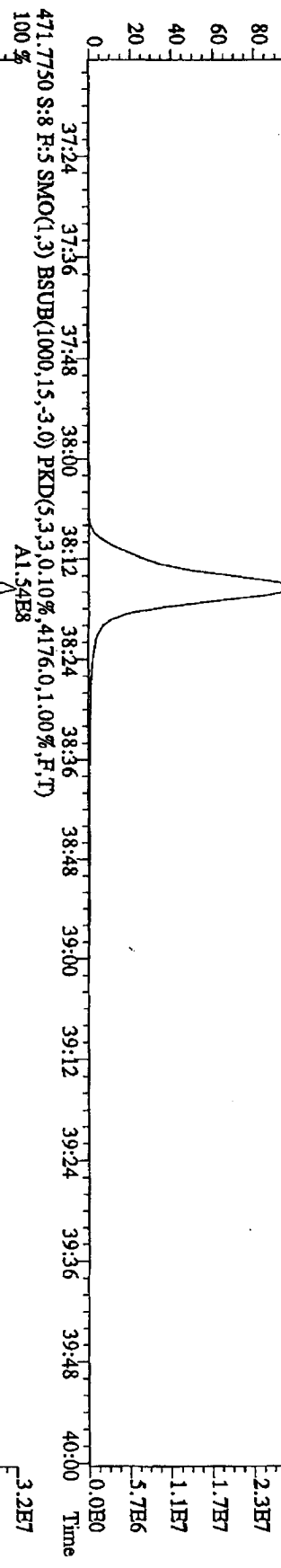
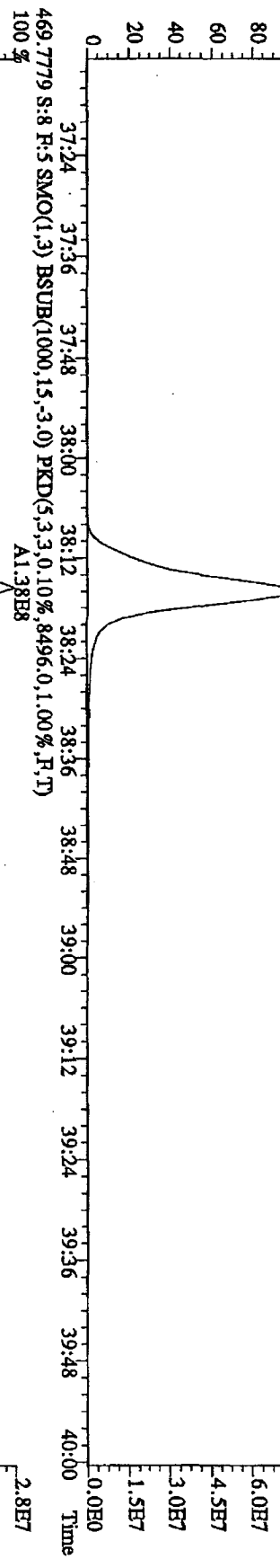
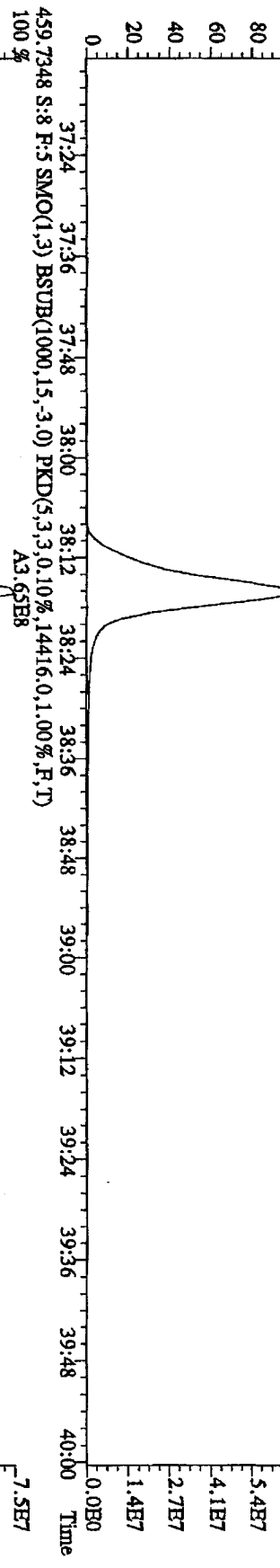
File:21JL10A4D5 #1-201 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#8 Text:ST0721E :CS-4 10DXN337 Exp.:DIOXINRES  
 423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14020,0.1,00%,F,T)  
 100 %



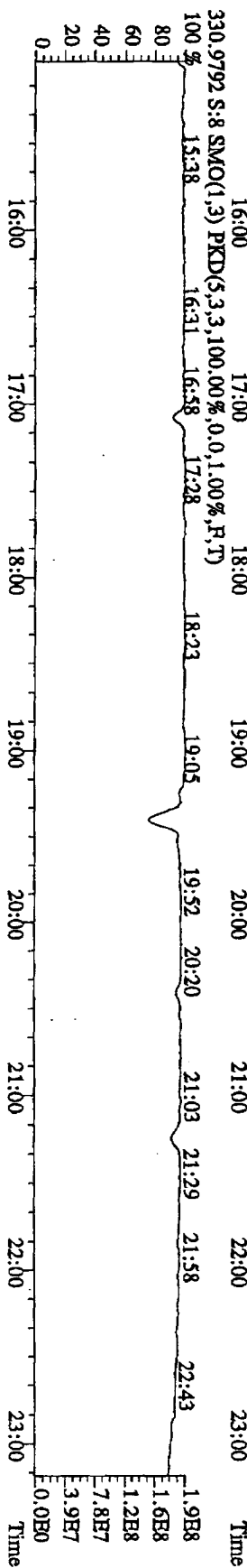
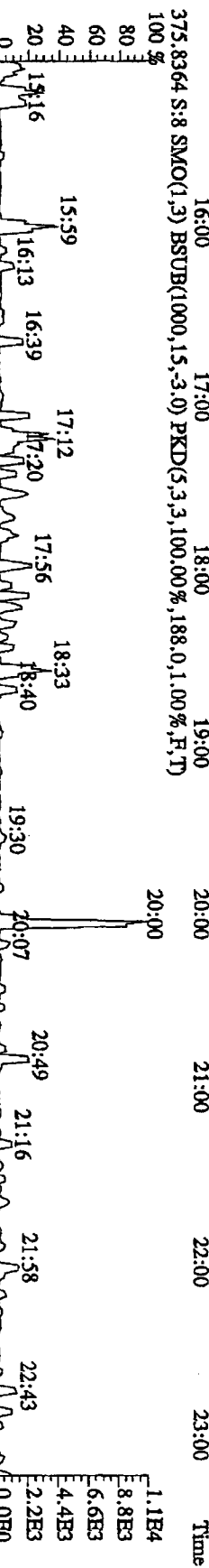
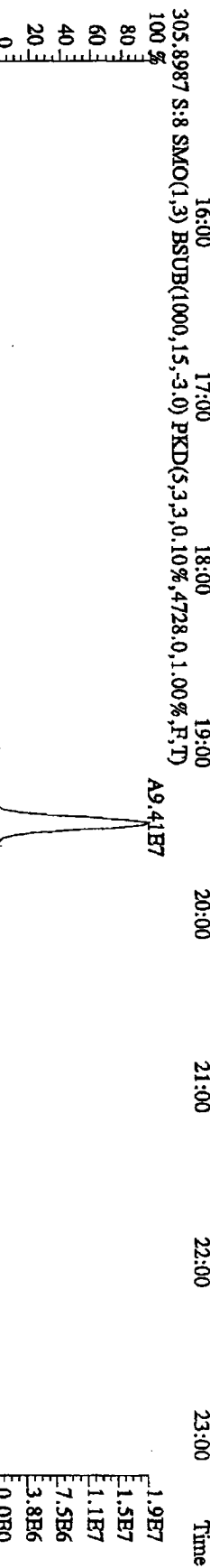
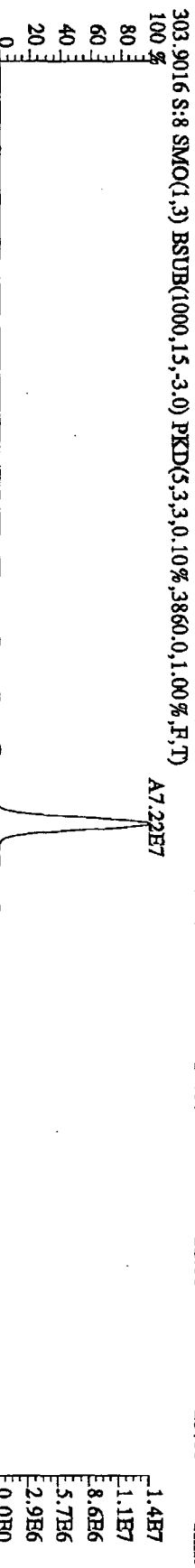
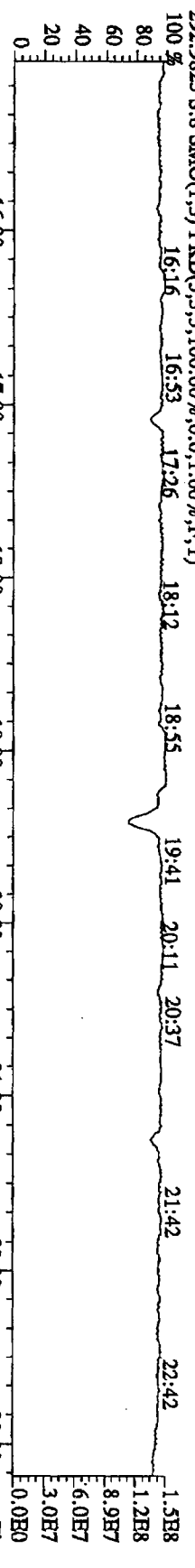
File:21JUL10A4D5 #1-227 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-Ultimah  
 Sample#8 Text:ST0721B :CS-4 10DXN337 Exp:DIOXINRBS  
 441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12968,0,1,00%,F,T) A3.89E8



File: 21JL10A4D5 #1-227 Acq: 21-JUL-2010 19:49:00 GC: EI+ Voltage: SFR Autospec: UltimaE  
 Sample#8 Text: ST0721E :CS-4 10DXN337 Exp: DIOXINRES  
 457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8120.0,1.00%,F,T)  
 100% A3.29E8

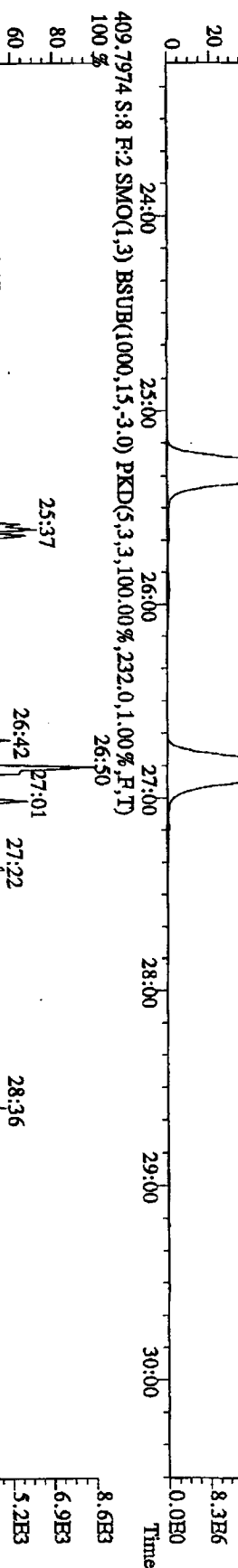
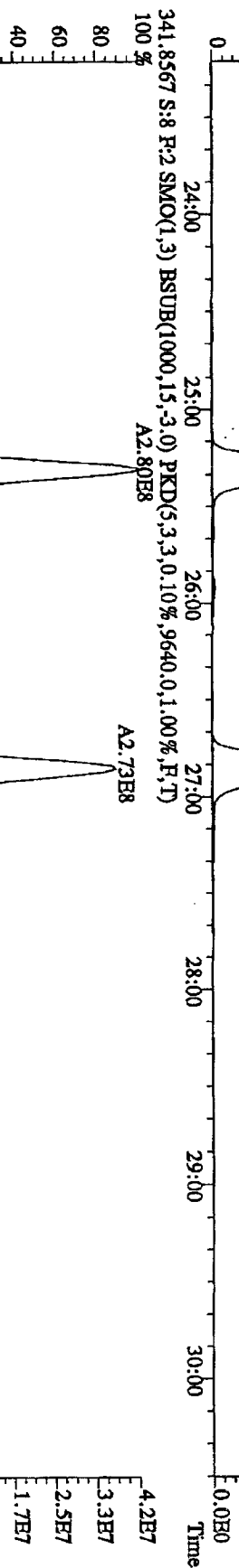
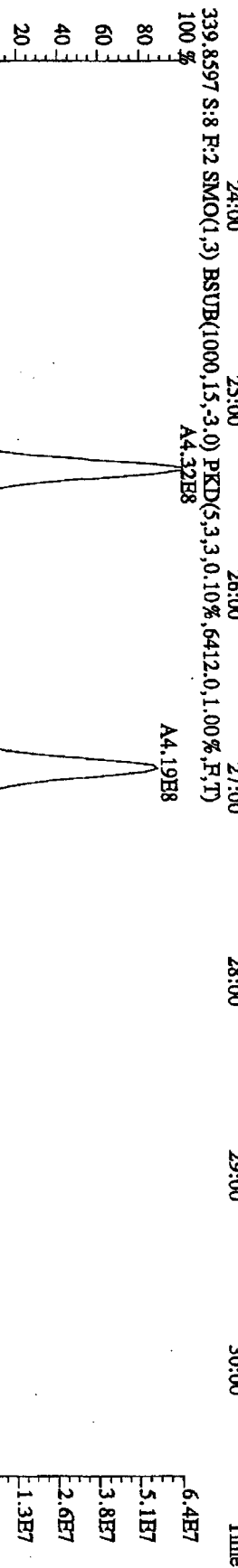
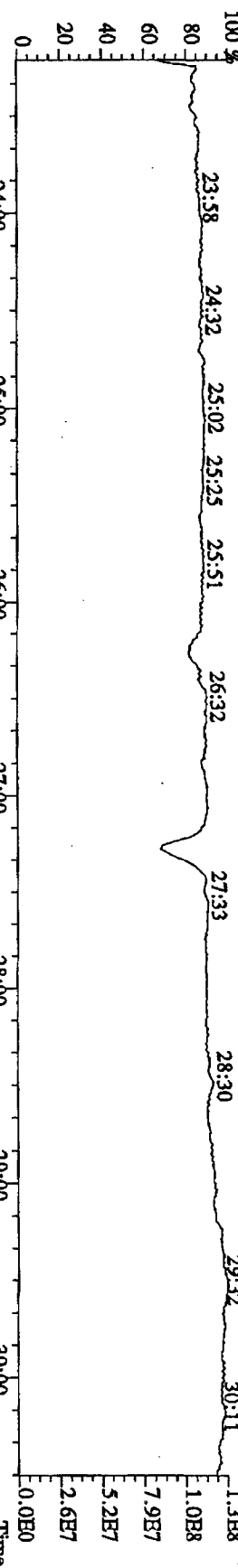


File: 21JL10A4D5 #1-541 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#8 Text: ST0721B :CS-4 10DXN37 Exp: DIOXINRES



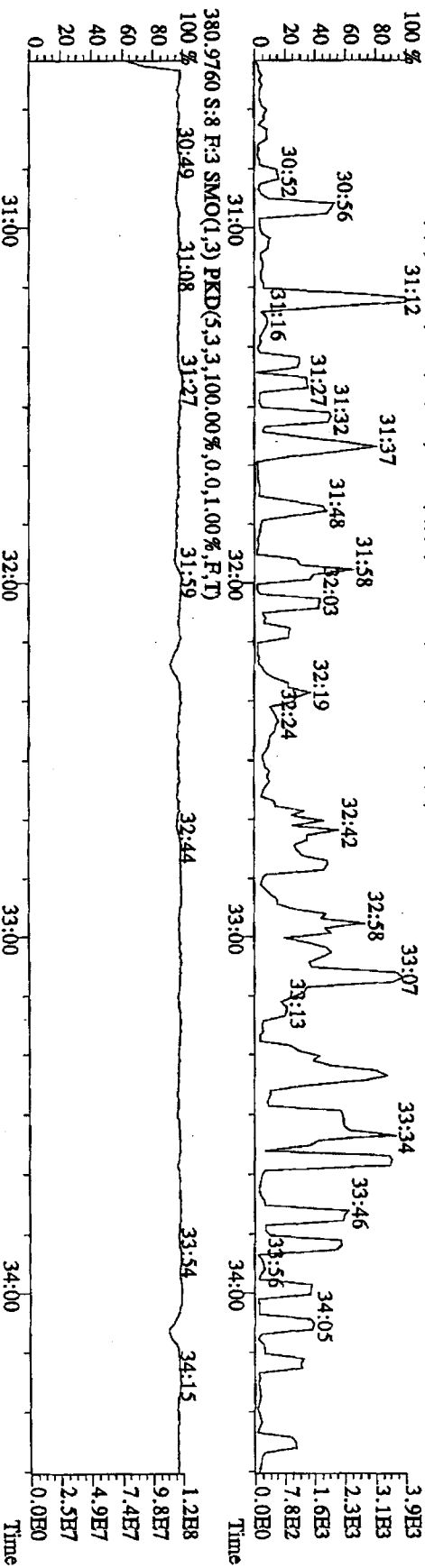
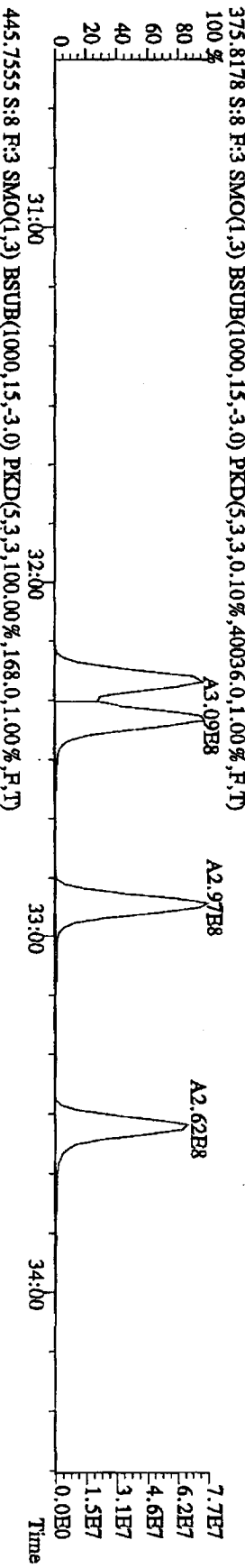
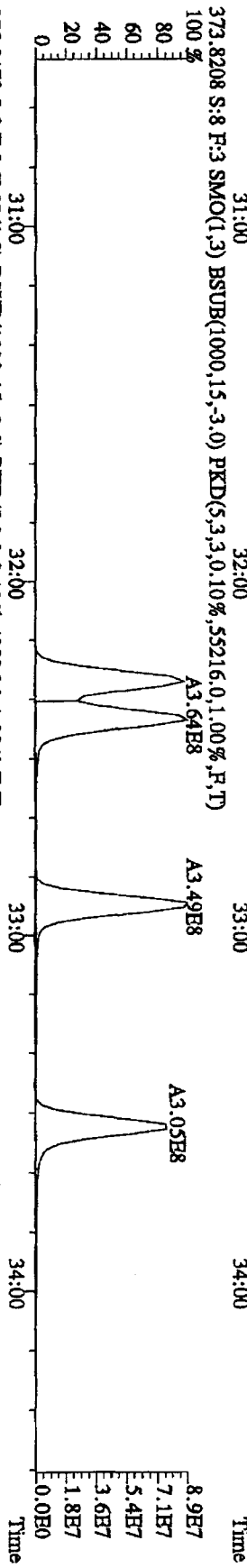
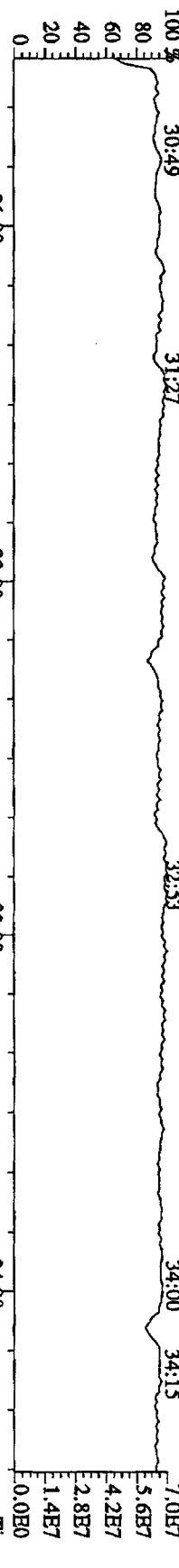


File:211JL10A4D5 #1-469 Acq:21-JUL-2010 19:49:00 GC BI+ Voltage SIR Autospec-Utimate  
 Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES  
 342.9792 S:8 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



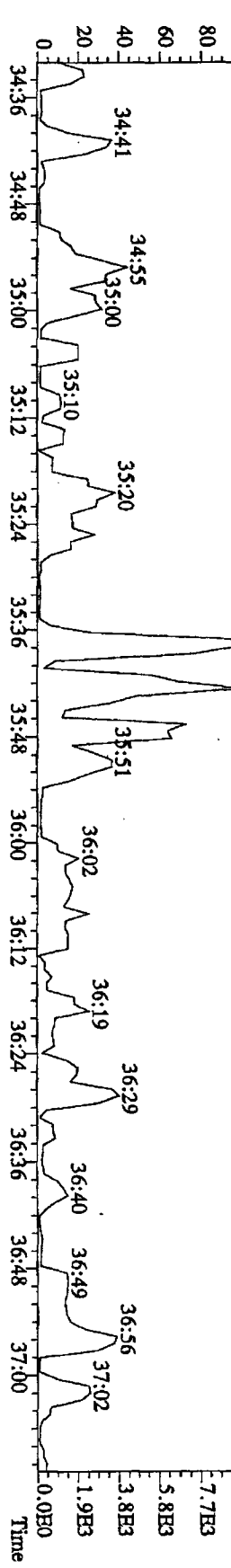
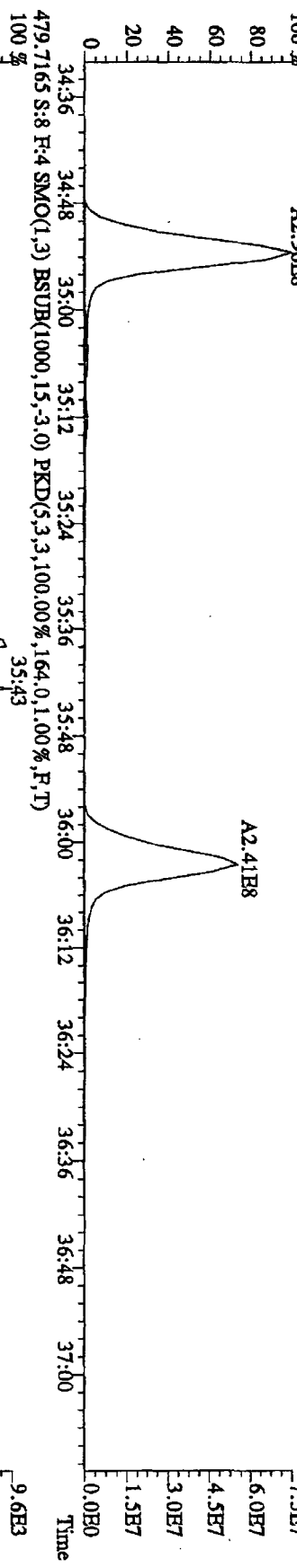
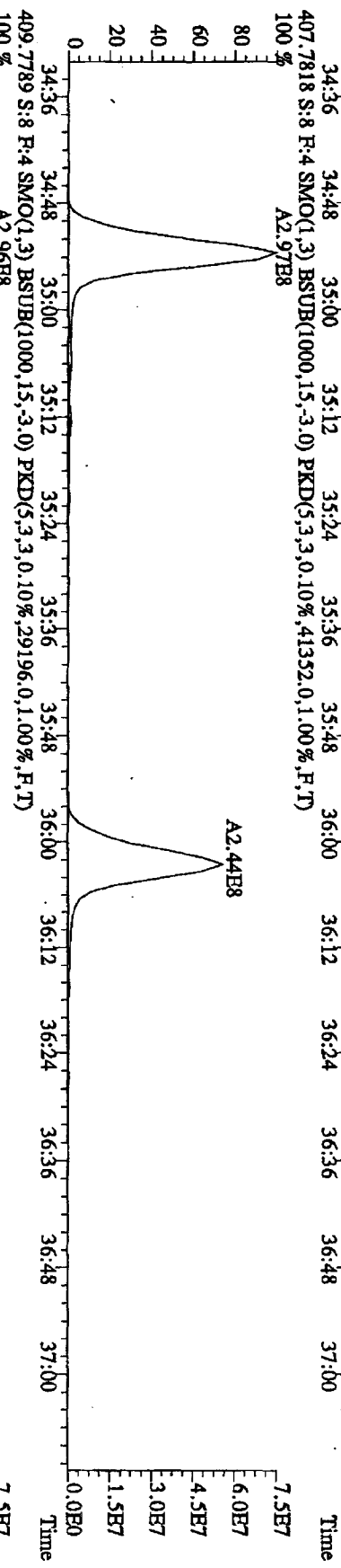
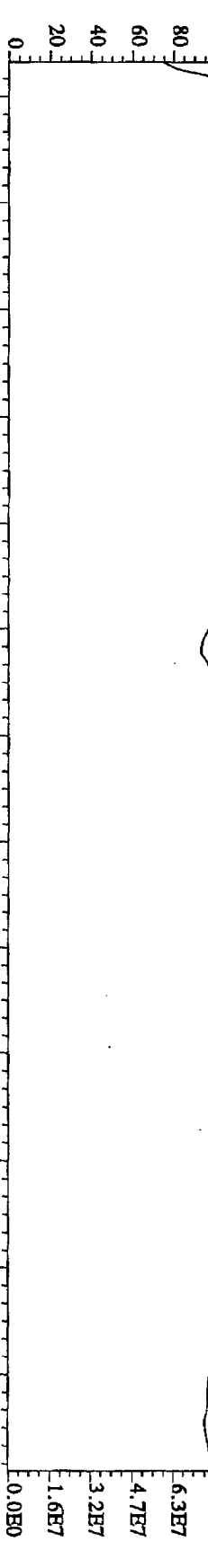
File:21IL10A4D5 #1-287 Acq:21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaB

Sample#8 Text:ST0721E :CS-4 10DXN337 Exp:DIOXINRES



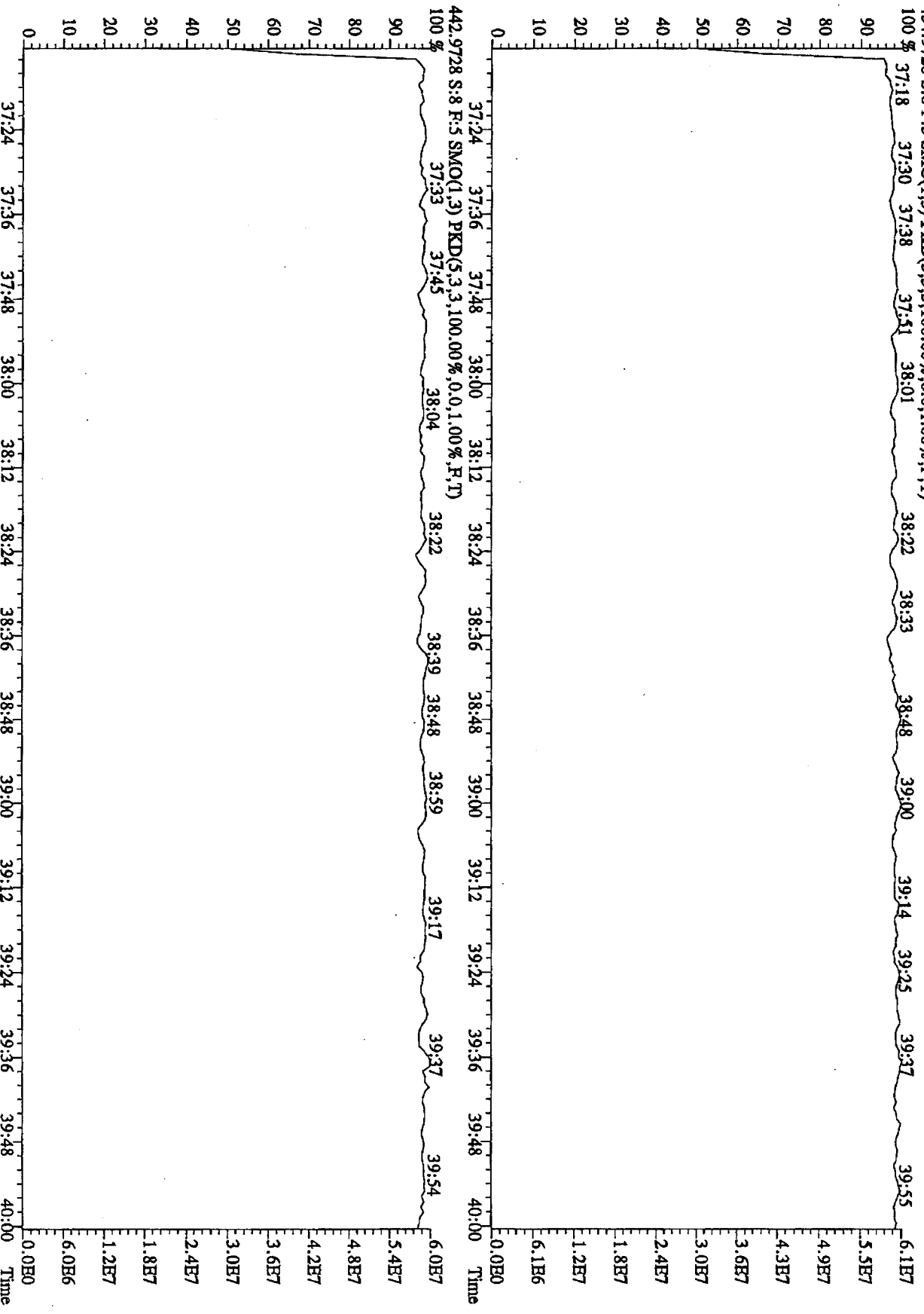
File: 211L10A4D5 #1-201 Acq: 21-JUL-2010 19:49:00 GC EI+ Voltage SIR Autospec-UltimaB

Sample#8 Text: ST0721E :CS-4 10DXN337 Exp: DIOXINRES

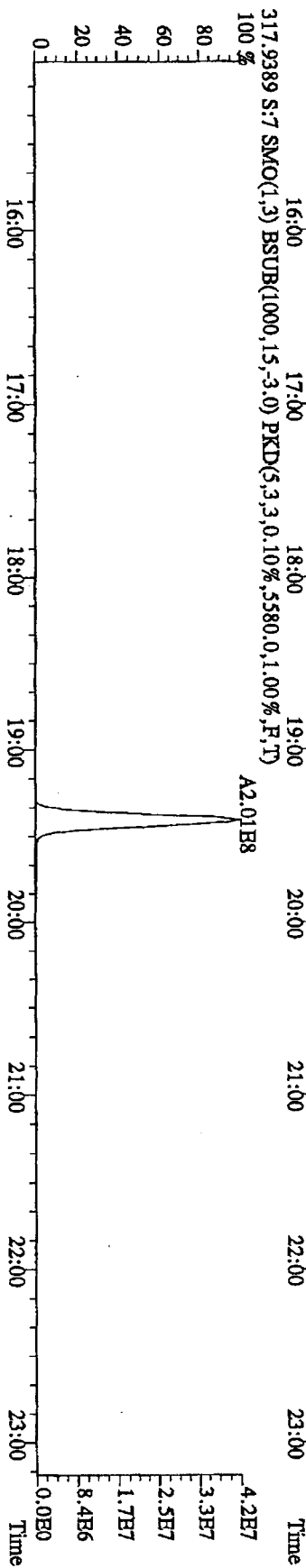
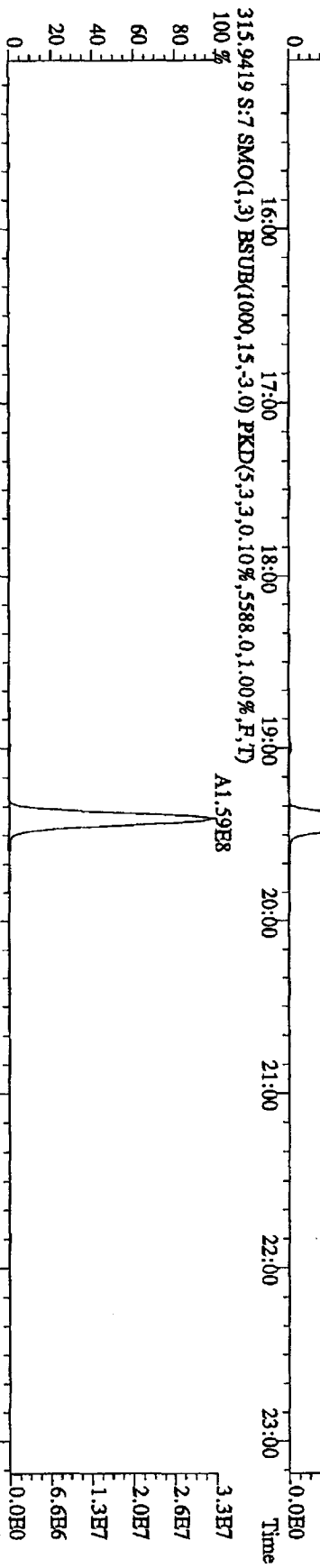
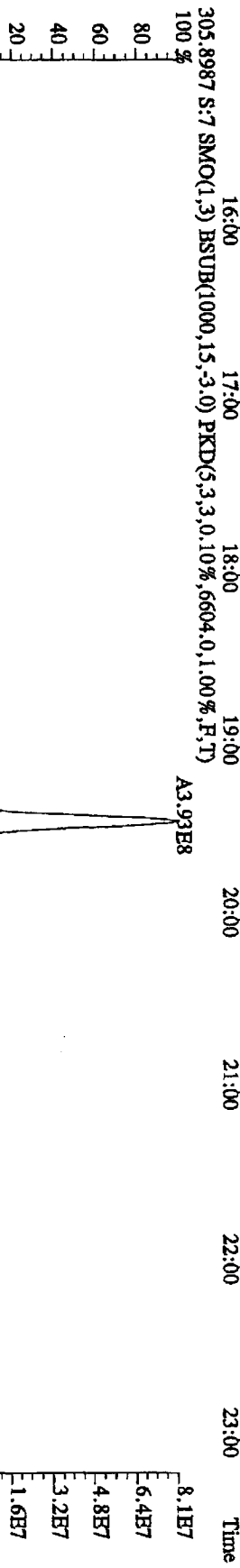
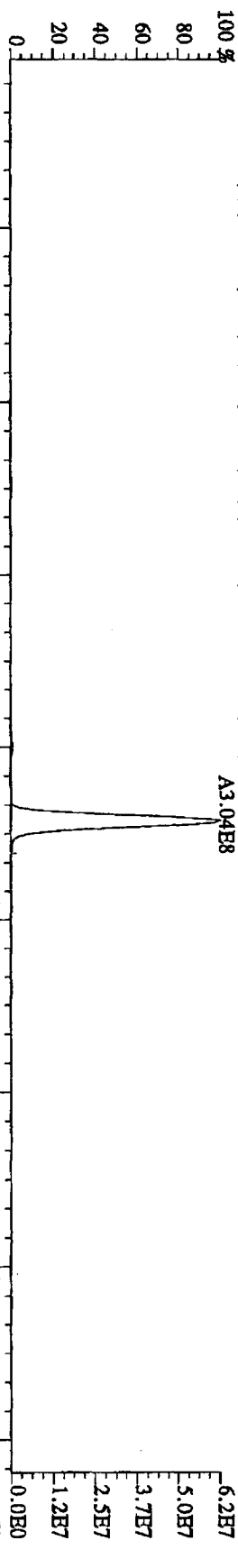


File: 211L10A4D5 #1-227 Acq: 21-JUL-2010 19:49:00 GC HI + Voltage SIR Autospec-UltimaB  
 Sample#8 Text: ST0721E :CS-4 10DXN337 Exp: DIOXINRES

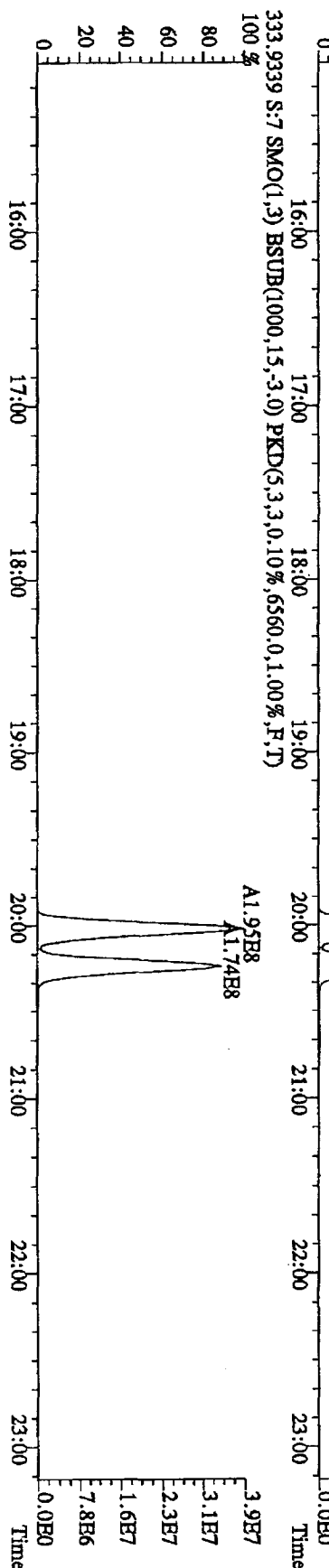
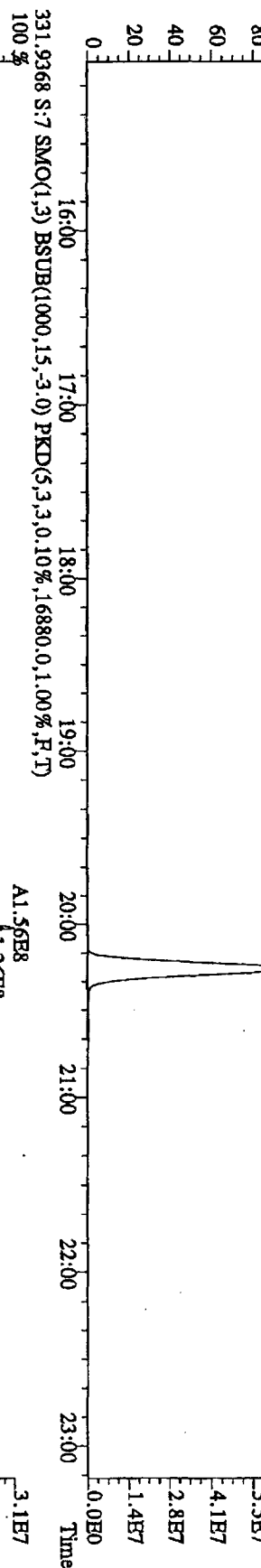
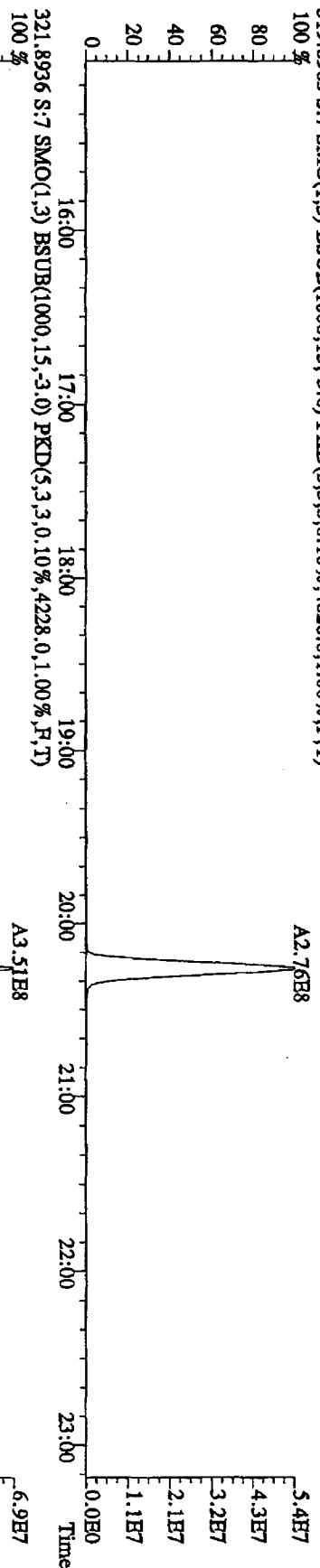
454.9728 S: 8 F: 5 SMO(1,3) PKD(5,3,3,100.00% 0.0,1.00%,F,T)



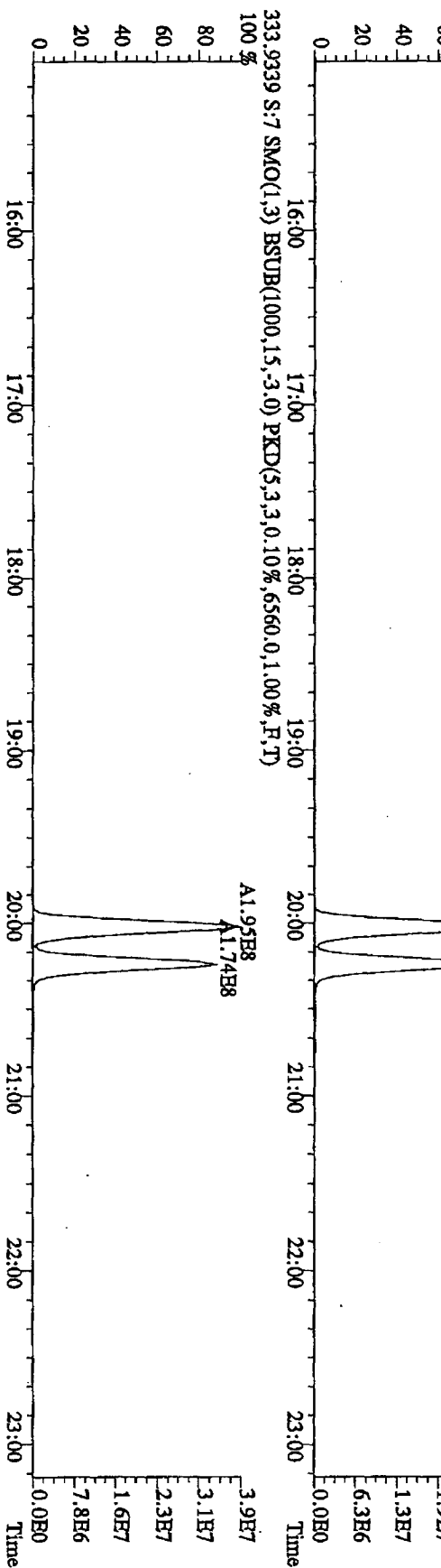
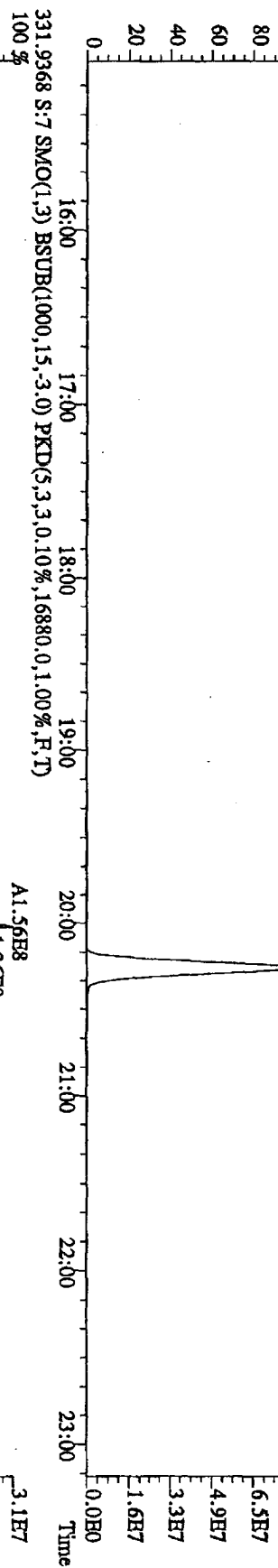
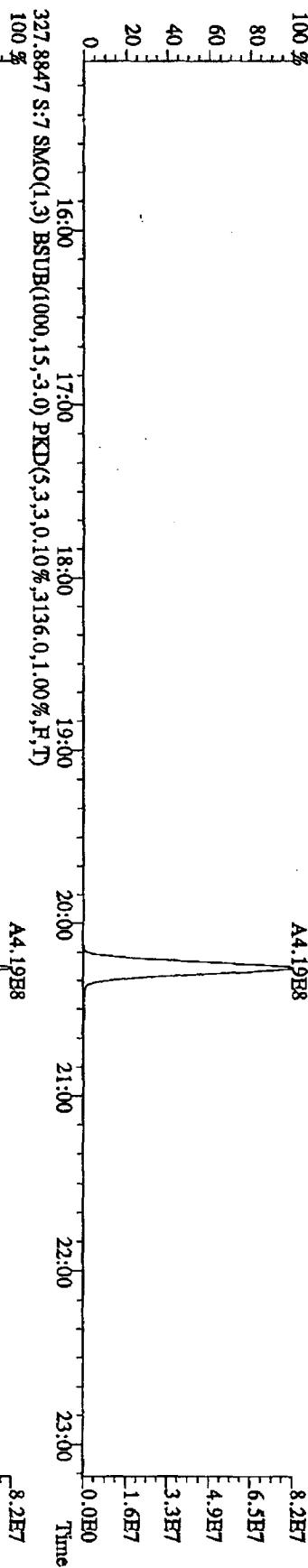
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 19:03:58 GC EI+ Voltage: 519V Autosp: Ultimate  
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES  
 303.9016 S: 7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5588,0,1,00%,F,T)



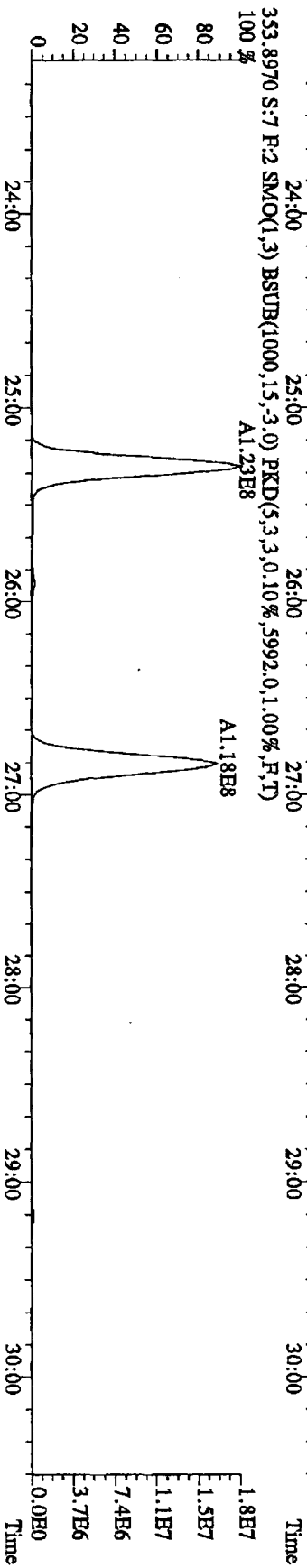
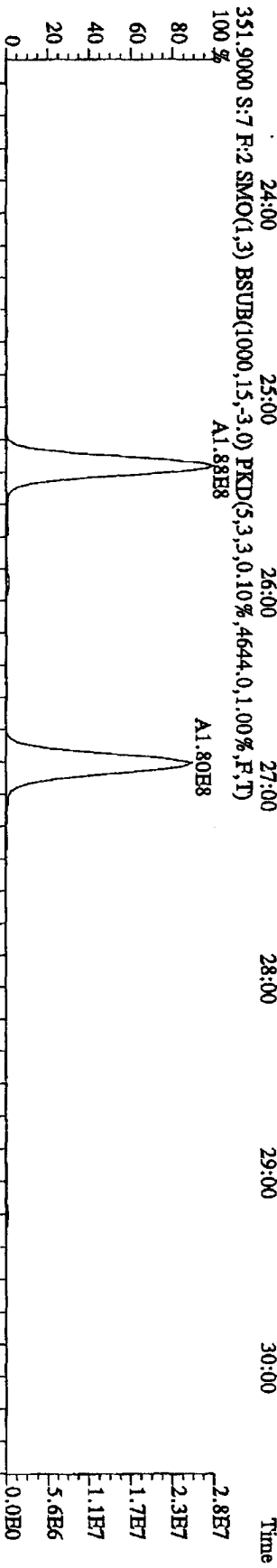
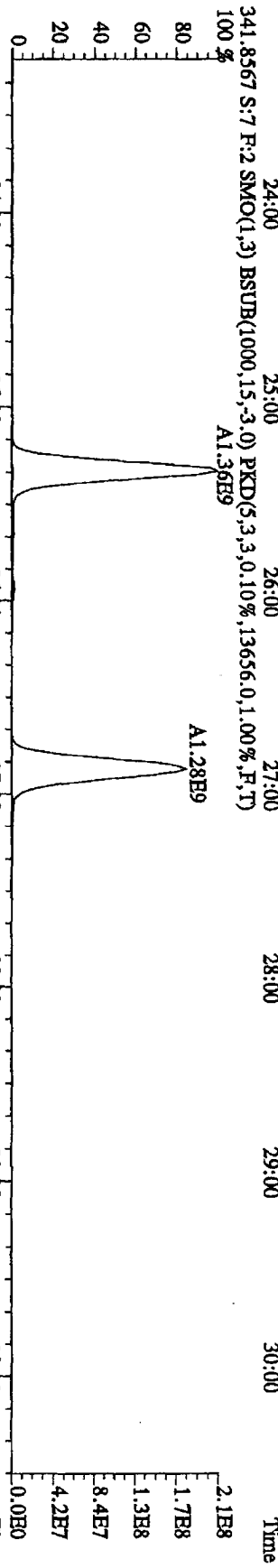
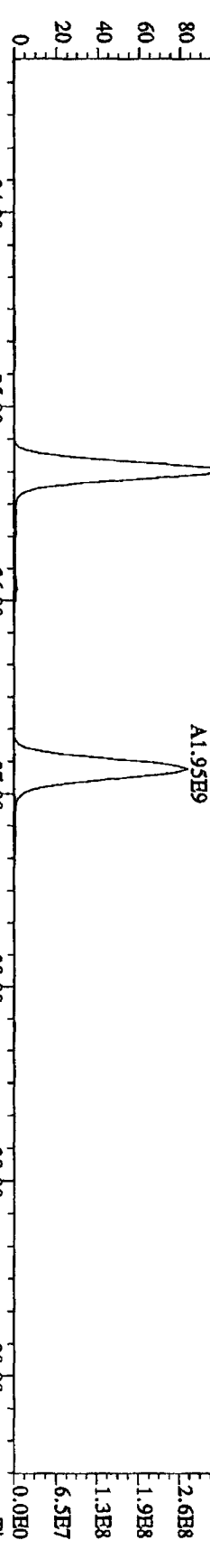
File: 21JL10A4D5 #1-541 Acq: 21-JUL-2010 19:03:58 GC HF + Voltage SIR Autospec-UltraME  
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES  
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4828,0,1,00%,F,T)



File: 21JL10AADD5 #1-541 Acq: 21-JUL-2010 19:03:58 GC RI+ Voltage SIR Autospec-Ultimate  
 Sample#7 Text: ST0721D :CS-5 IODXN339 Exp: DIOXINRES  
 327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3136.0,1.00%,F,T)  
 100%

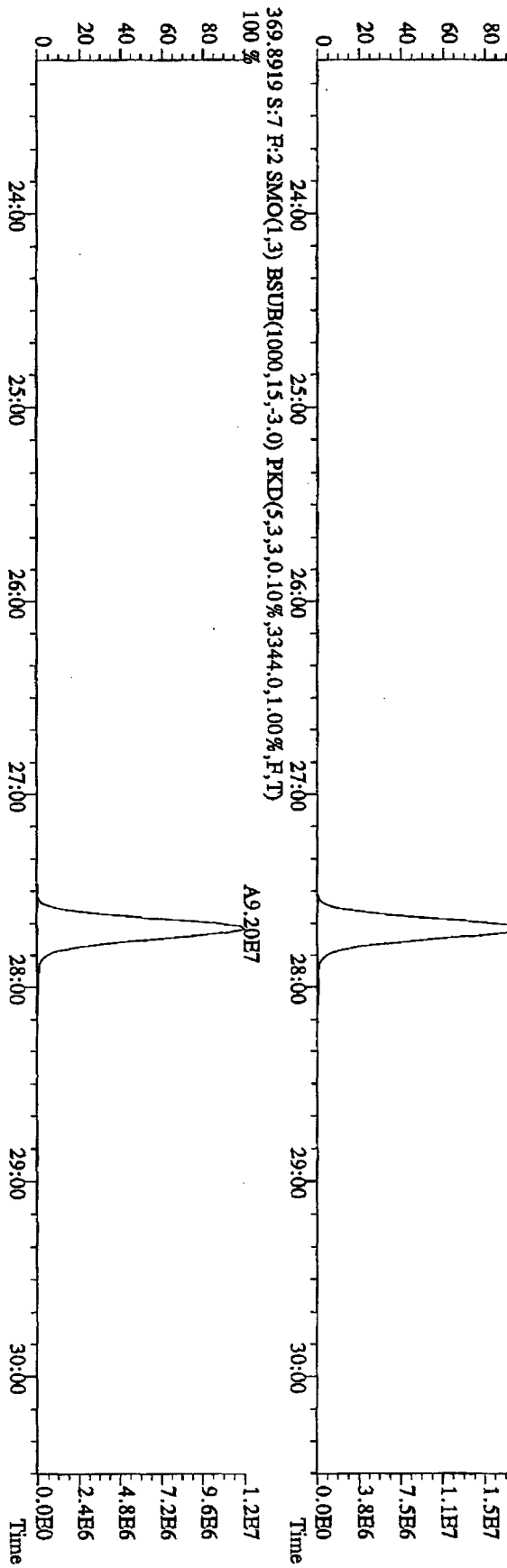
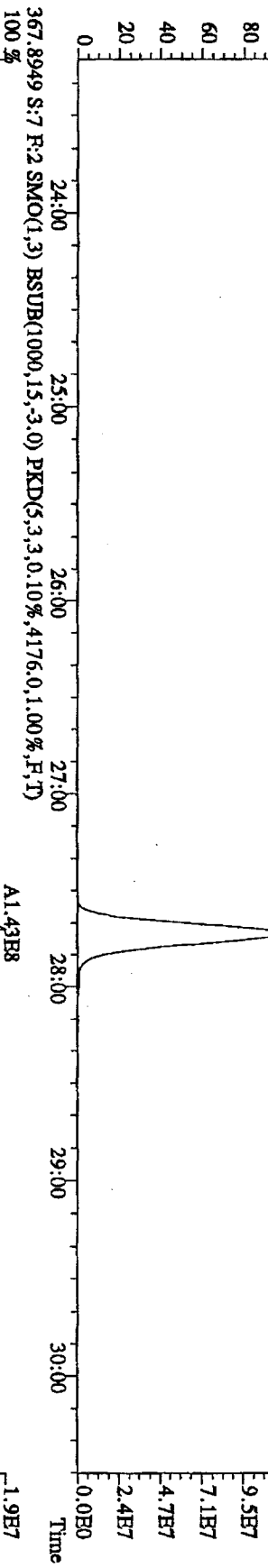
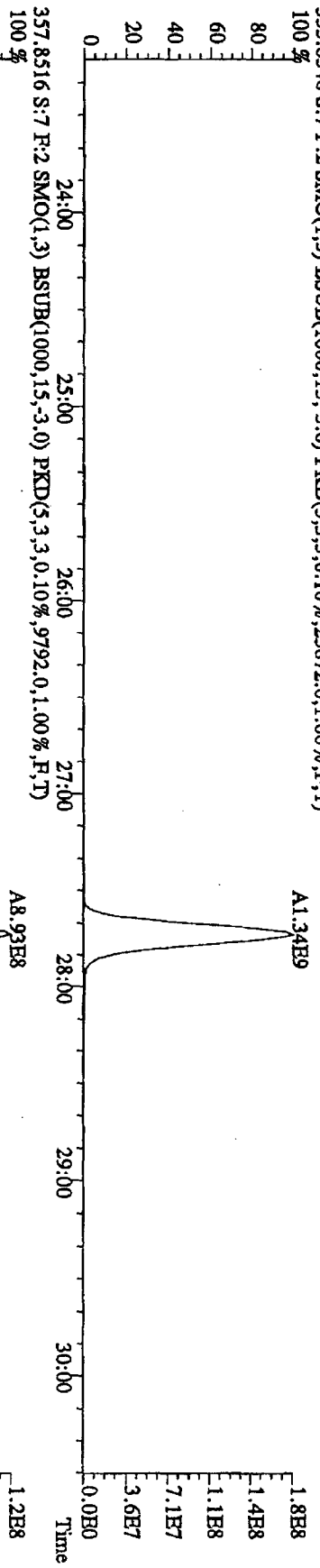


File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES  
 339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,26980,0,1,00%,F,T)  
 100%



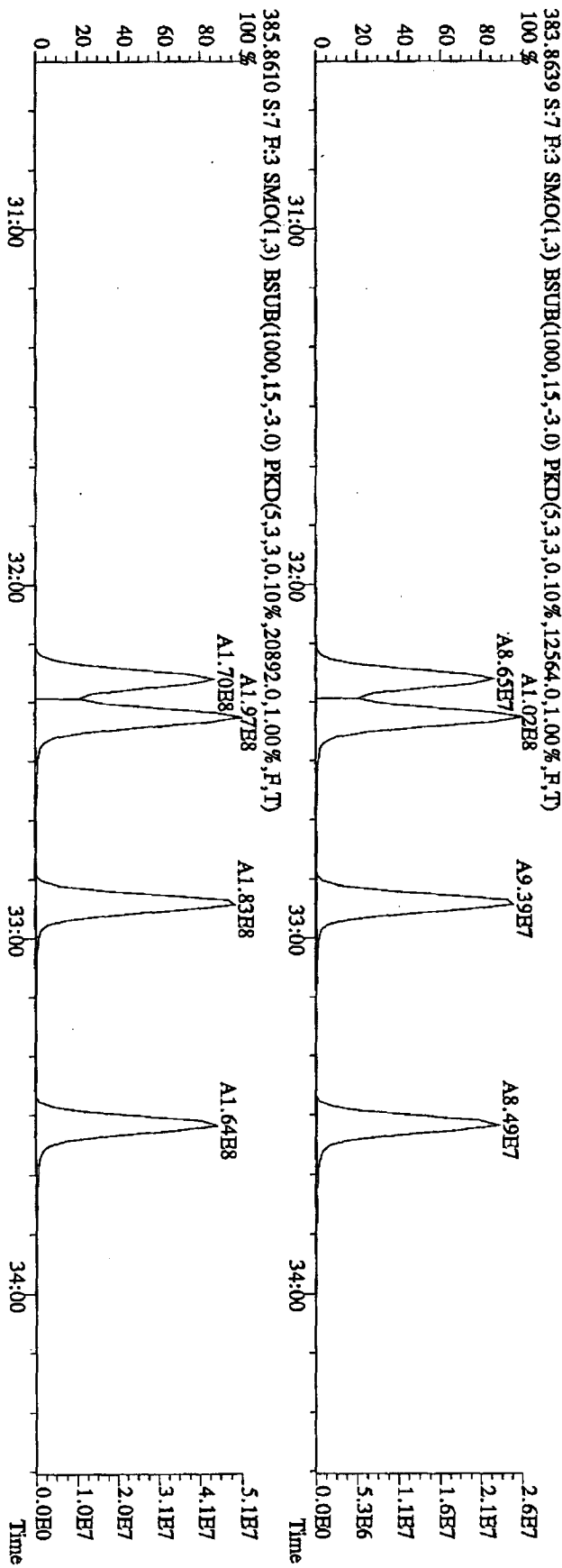
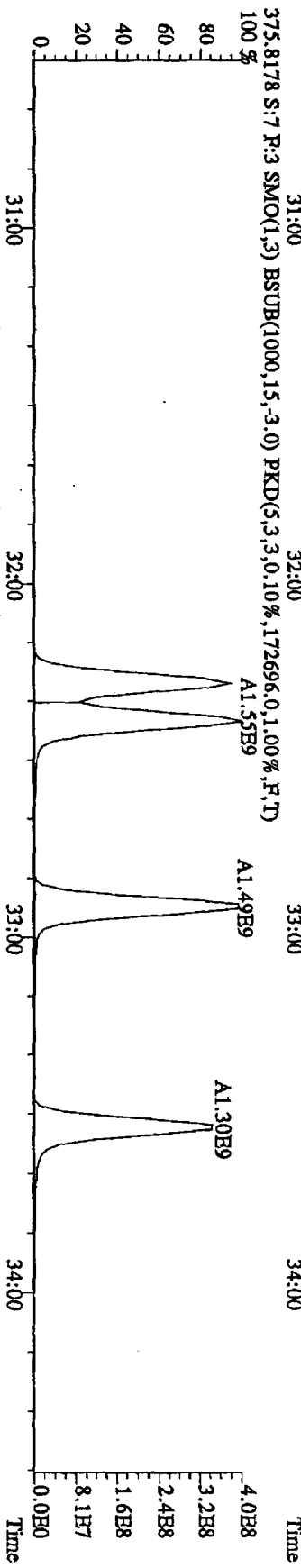
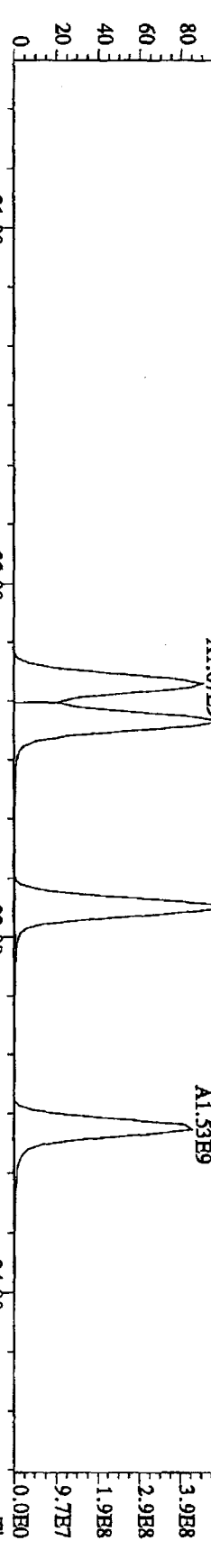


File:21JL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES  
 355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.25872,0,1.00%,F,T) 100%

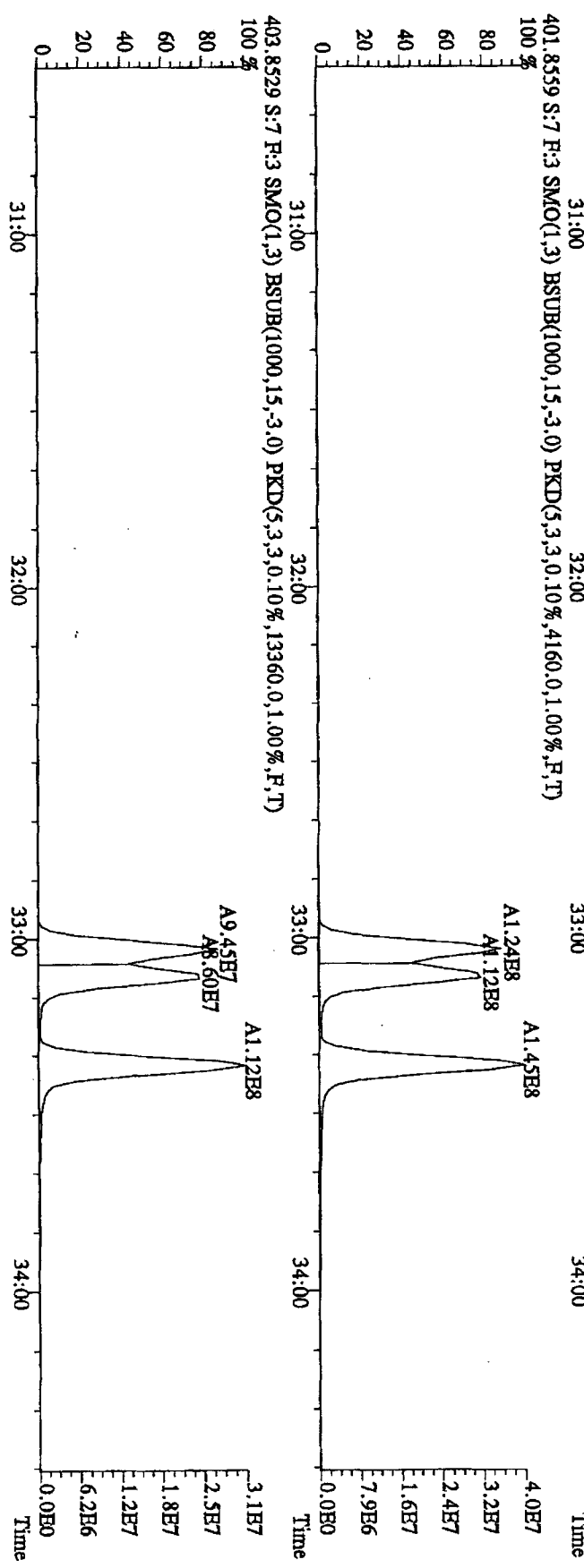
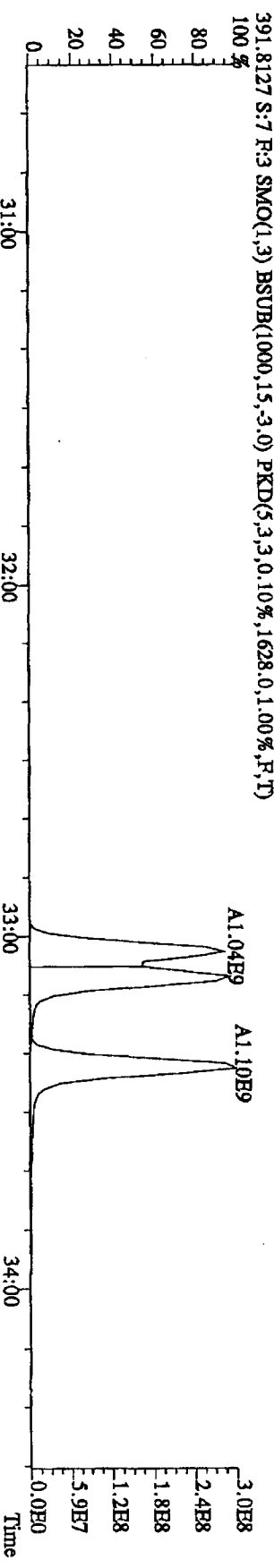
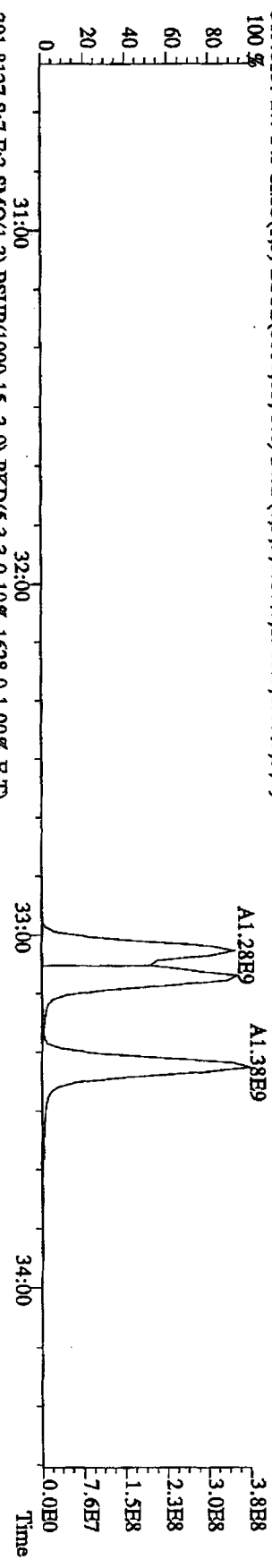


File:21JUL10A4D5 #1-287 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-Ultimate

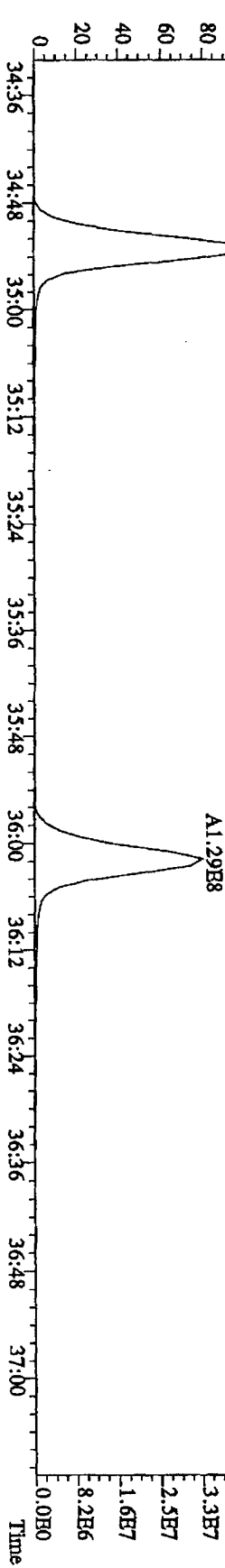
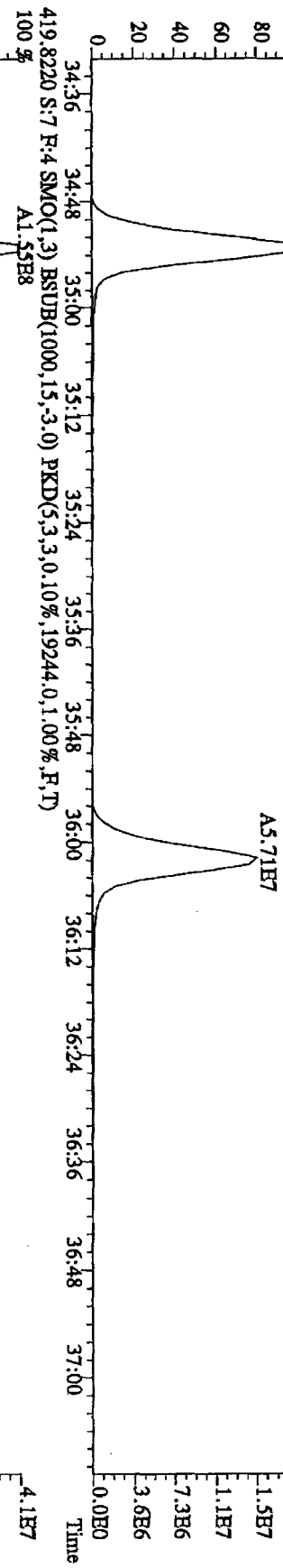
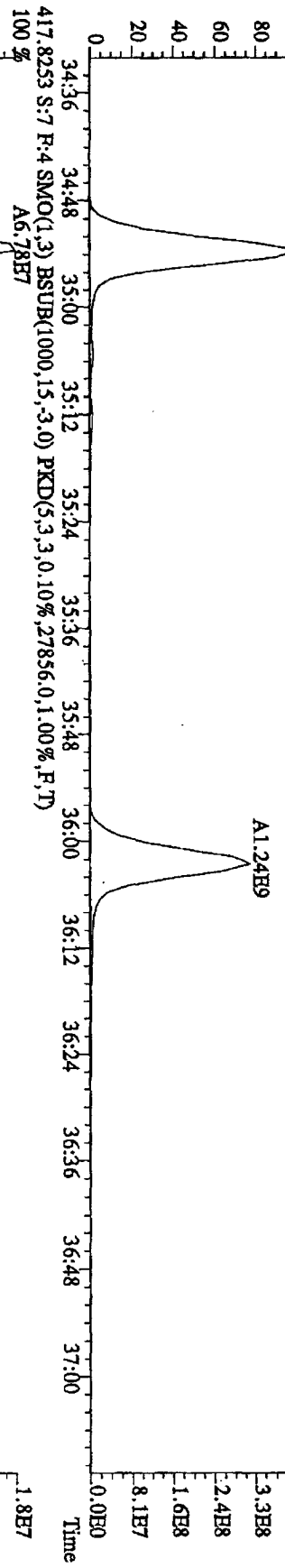
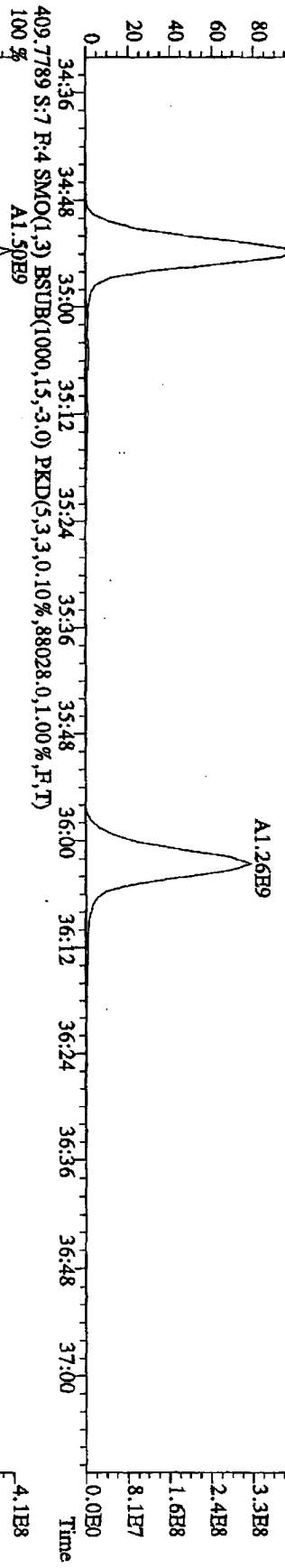
Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES



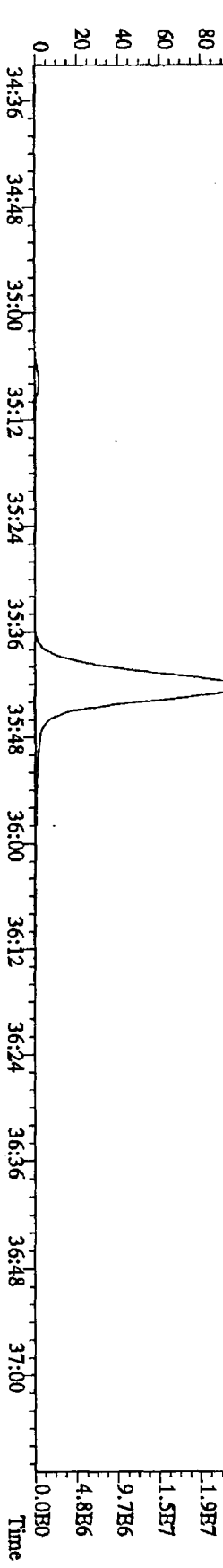
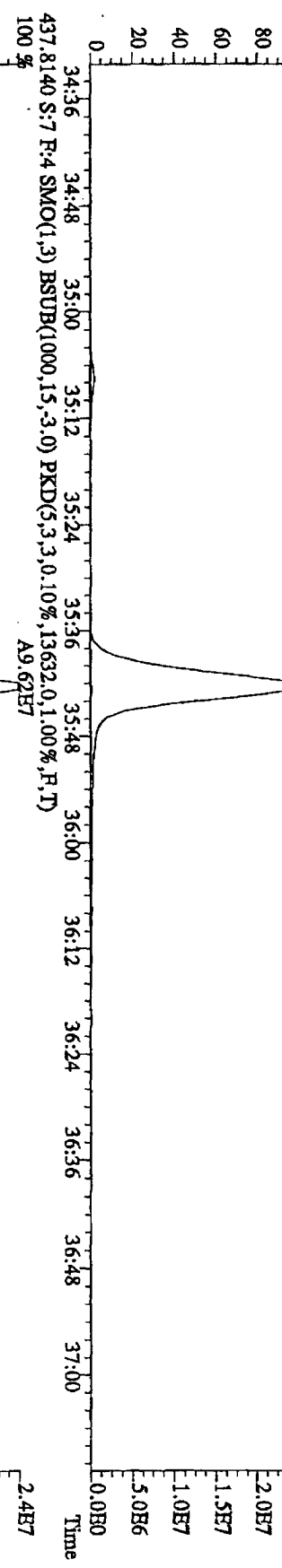
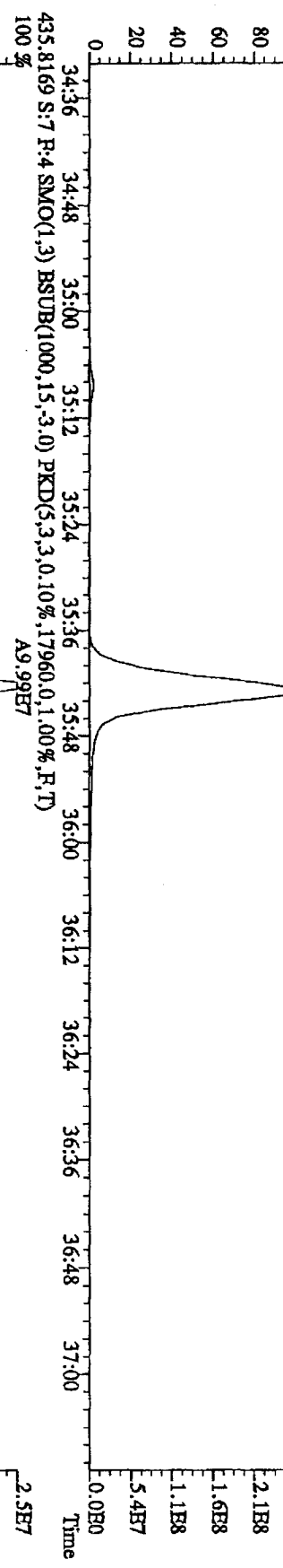
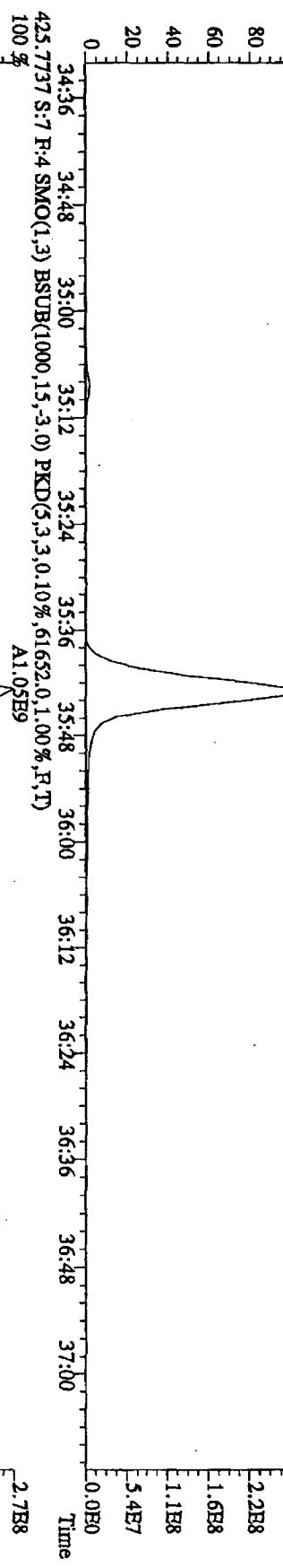
File: 21JL10A4D5 #1-287 Acq: 21-JUL-2010 19:03:58 GC EI+ Voltage: SIR Autospec-Ultimate  
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES  
 389.8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1340,0,1,00%,F,T)



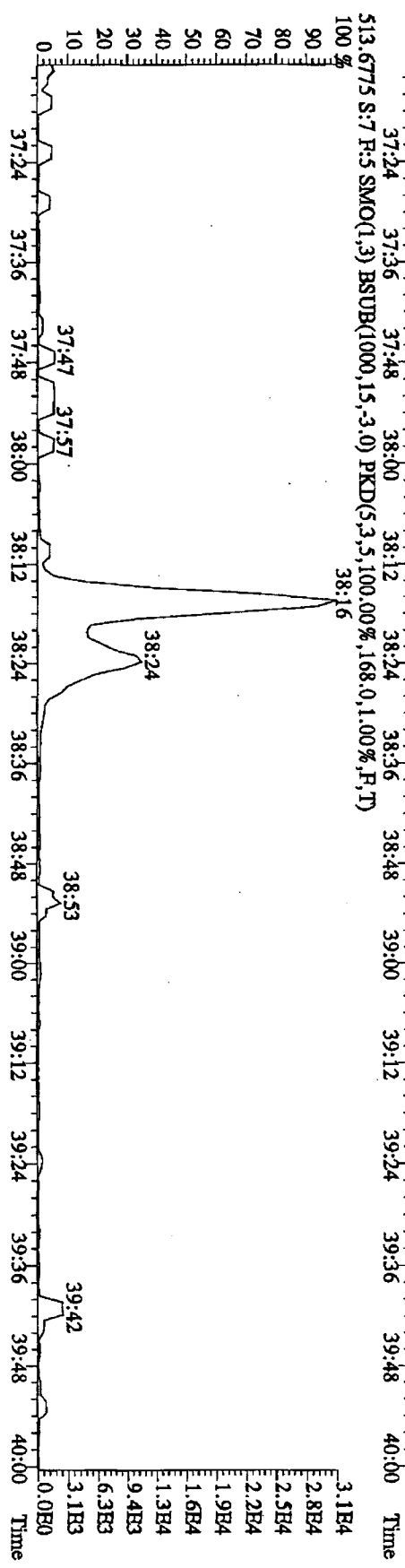
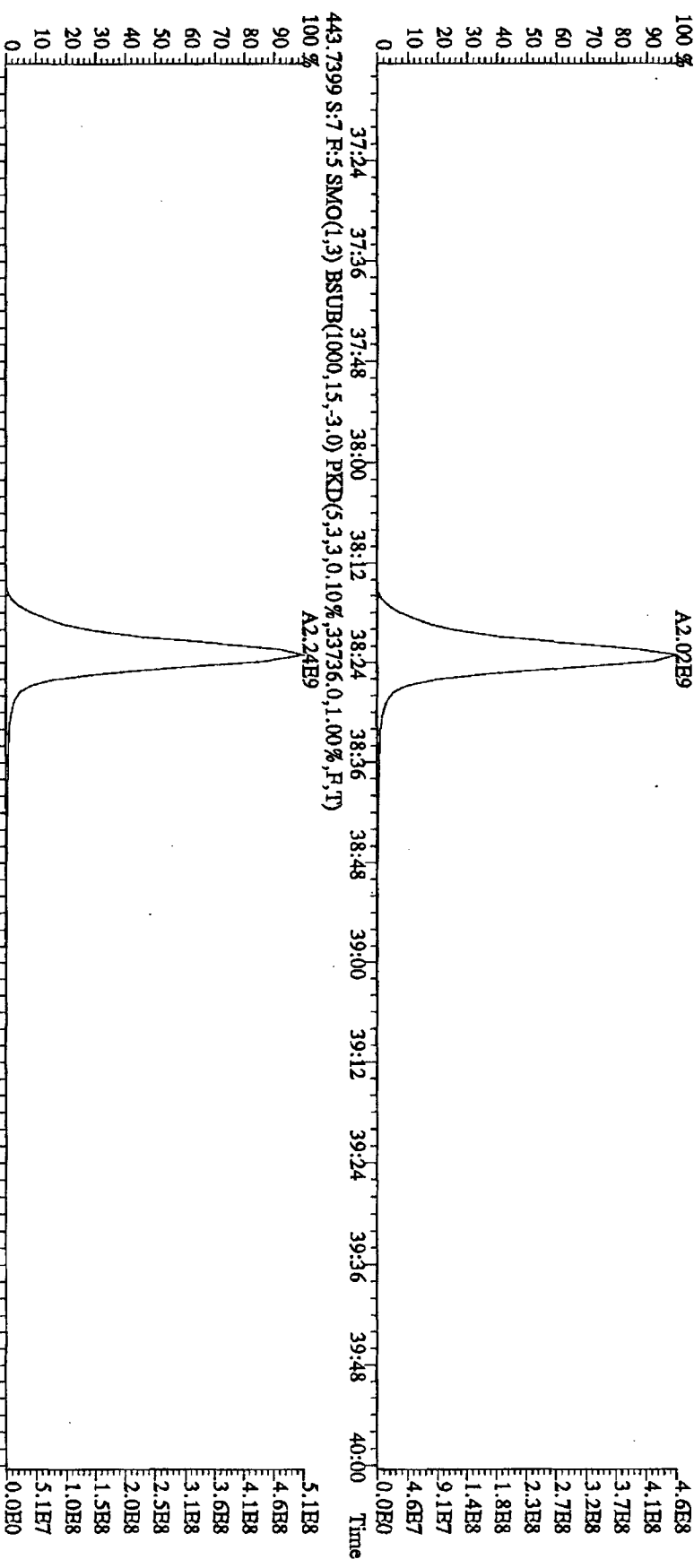
File: 21JL10A4D5 #1-201 Acq: 21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES  
 407.7818 S:7 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,99420,0,1.00%,F,T)  
 100%



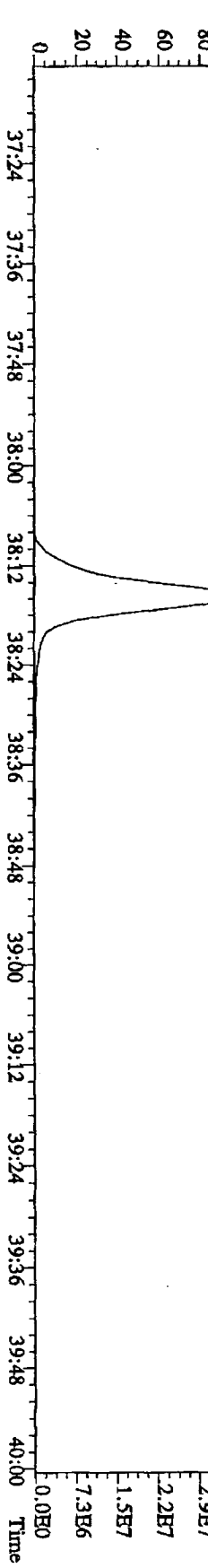
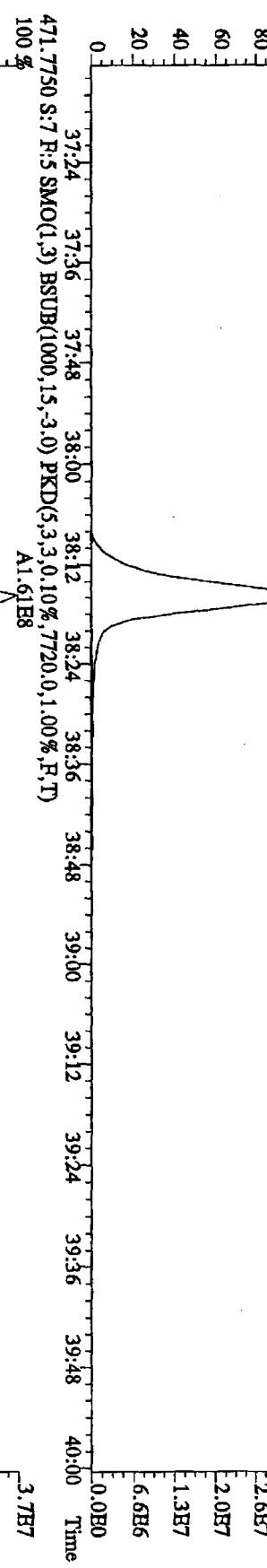
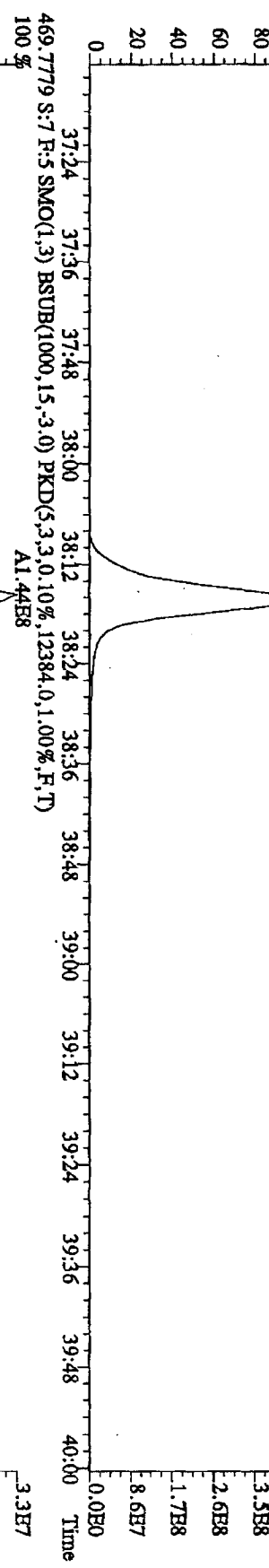
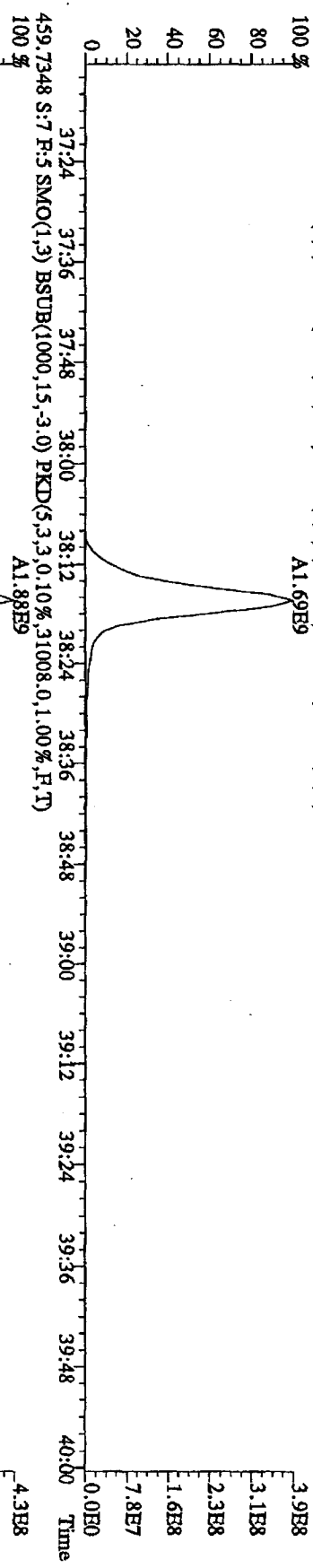
File: 211L10ADD5 #1-201 Acq: 21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#7 Text: ST0721D :CS-5 10DXN39 Exp: DIOXINRES  
 423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,75680,0.1,00%,F,T)  
 100% A1.08B9



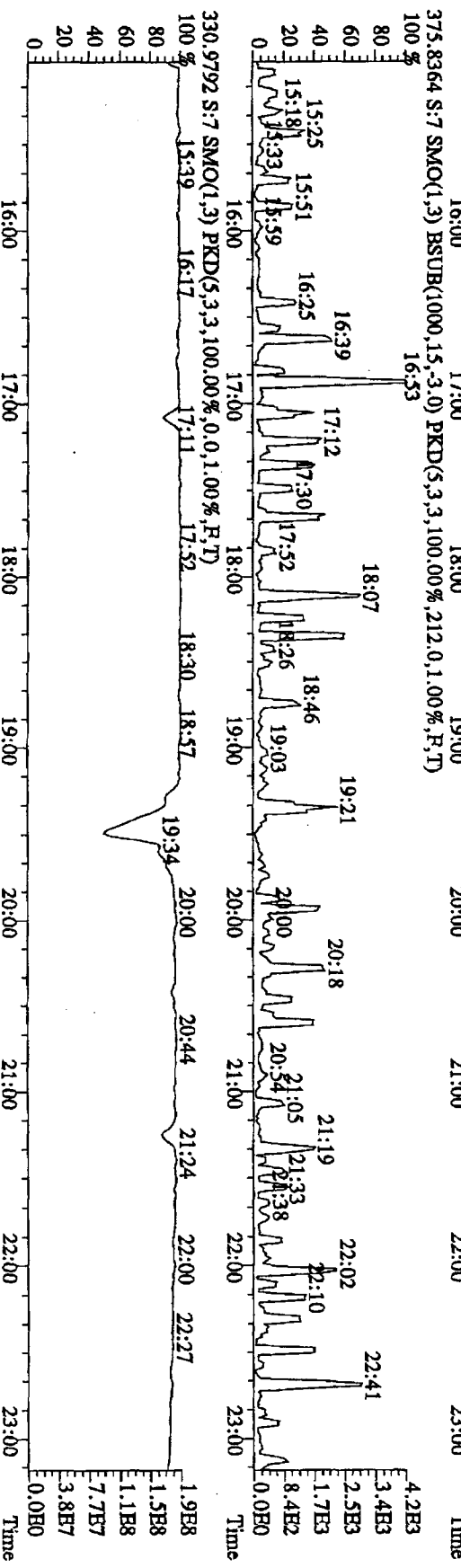
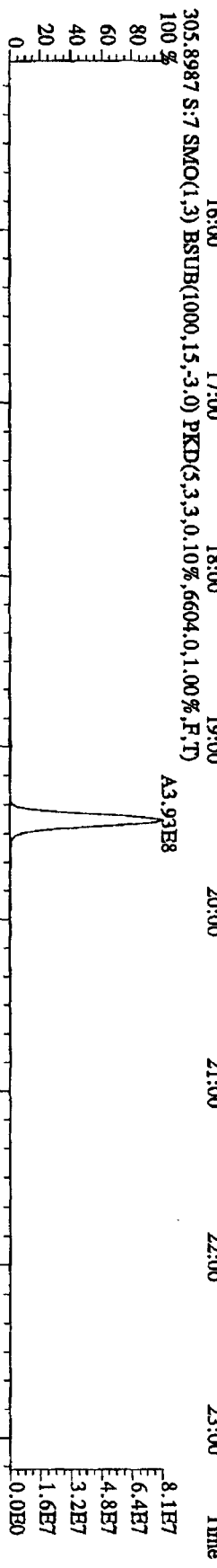
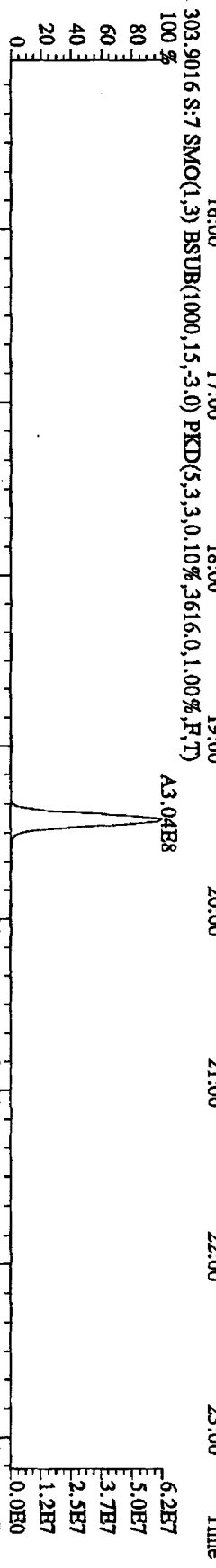
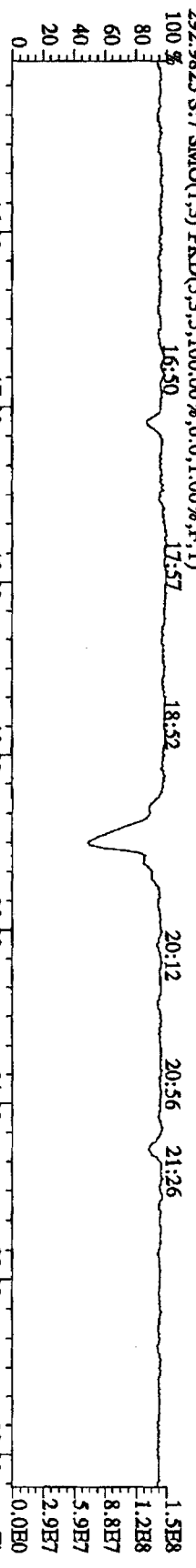
File: 211L10A4D5 #1-227 Acq: 21-JUL-2010 19:03:58 GC EI+ Voltage STR Autospec-Ultimate  
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES  
 441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37688.0,1.00%,F,T)  
 100% A2.02E9



File:211L10AAD5 #1-227 Acq:21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-Ultimat  
 Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRES  
 457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27244,0,1.00%,F,T)  
 100% A1.69E9

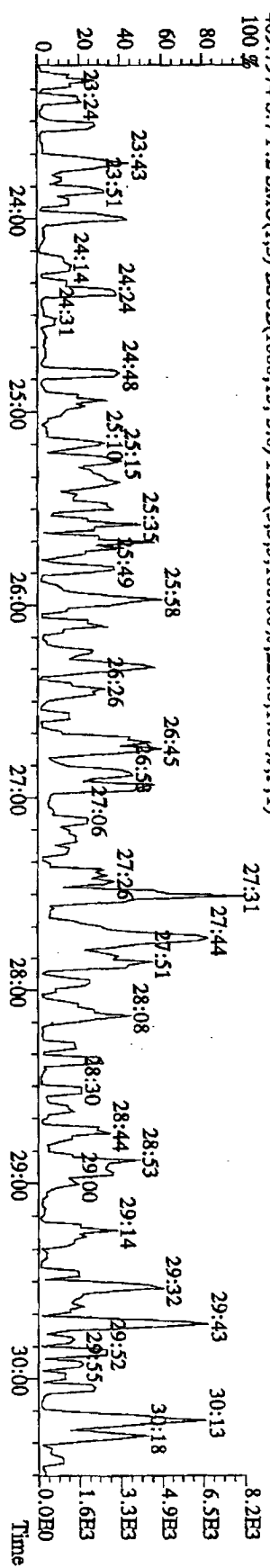
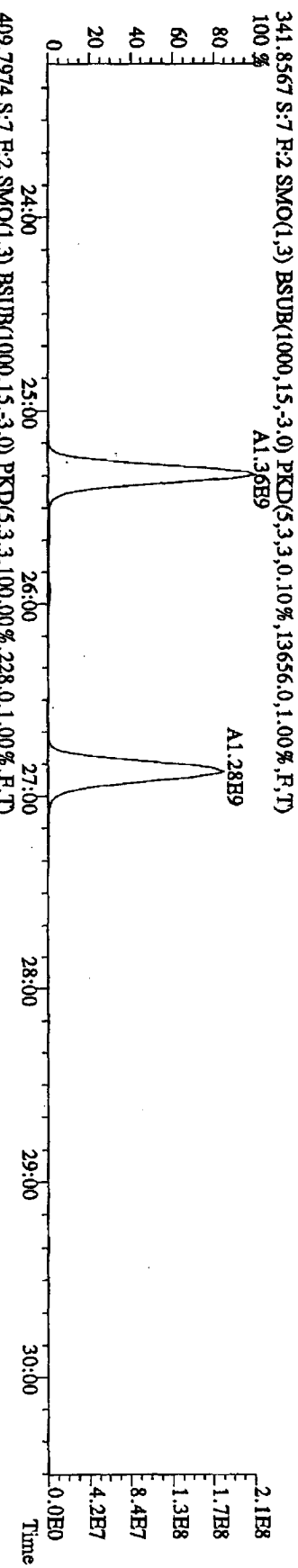
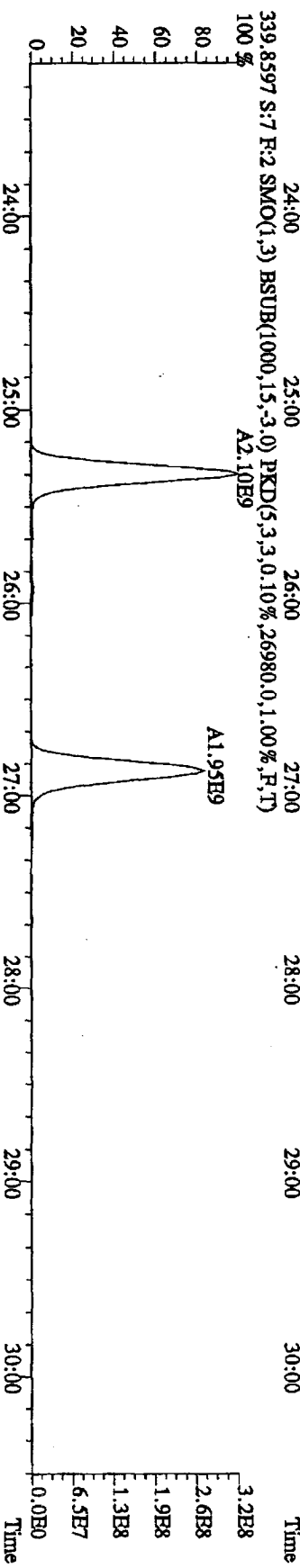
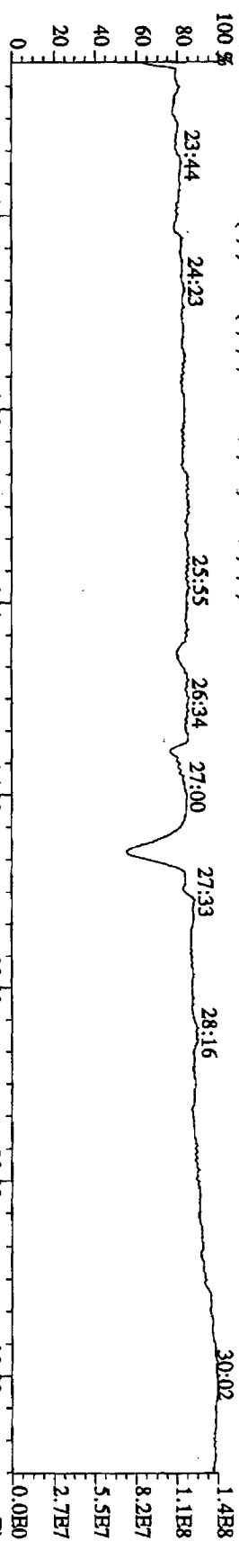


File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES

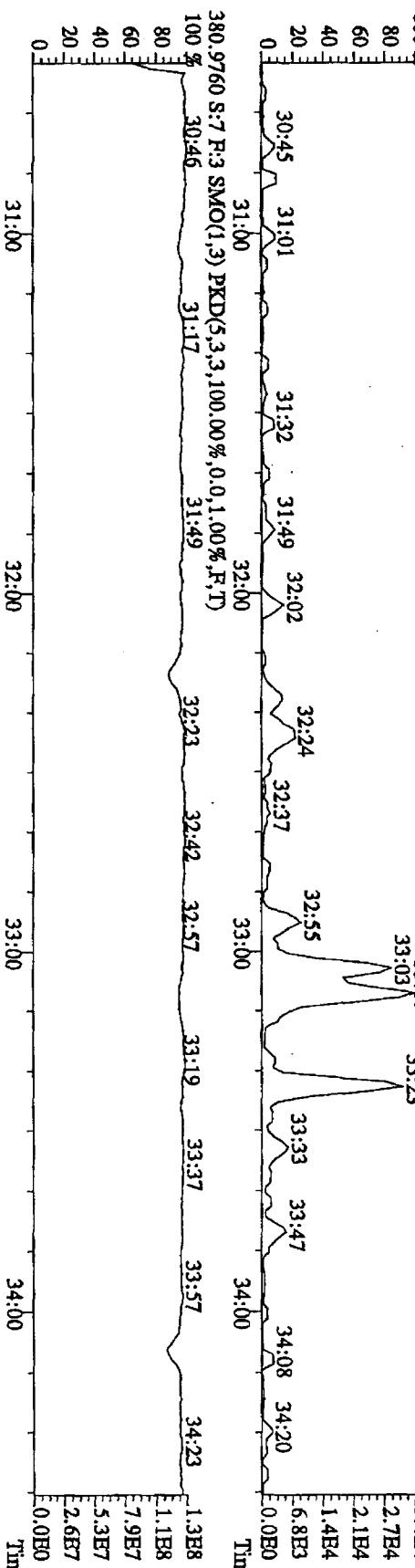
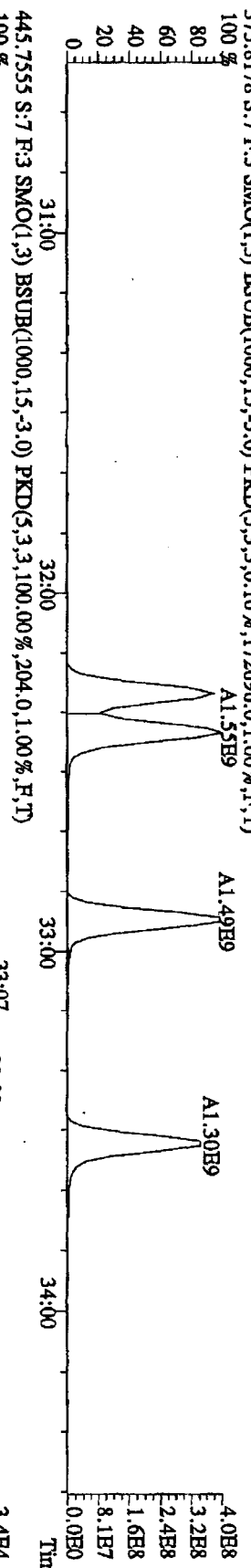
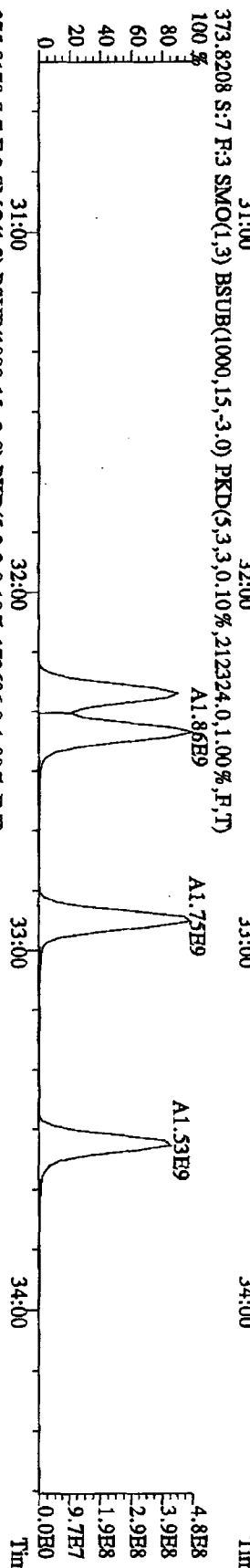
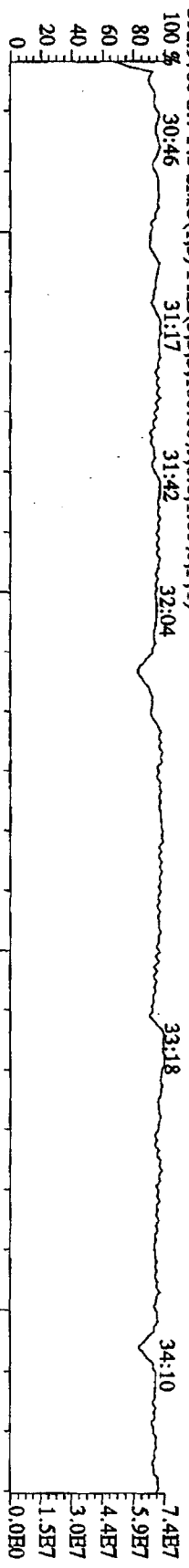




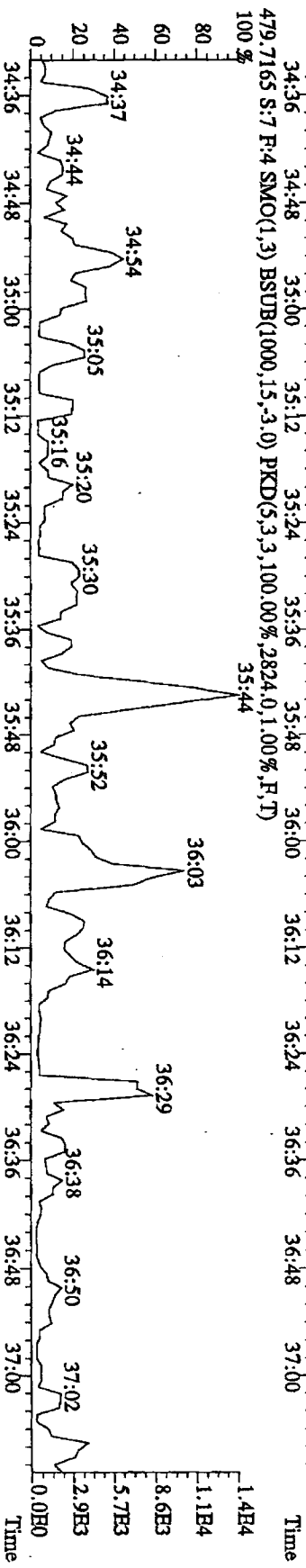
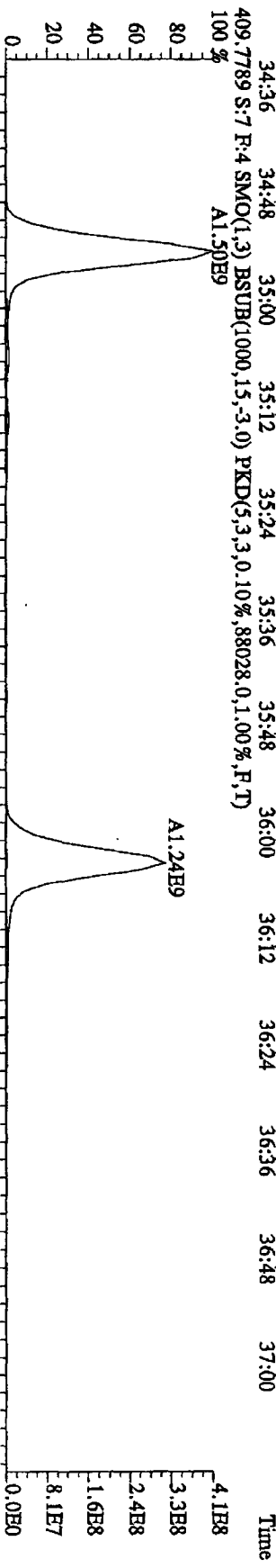
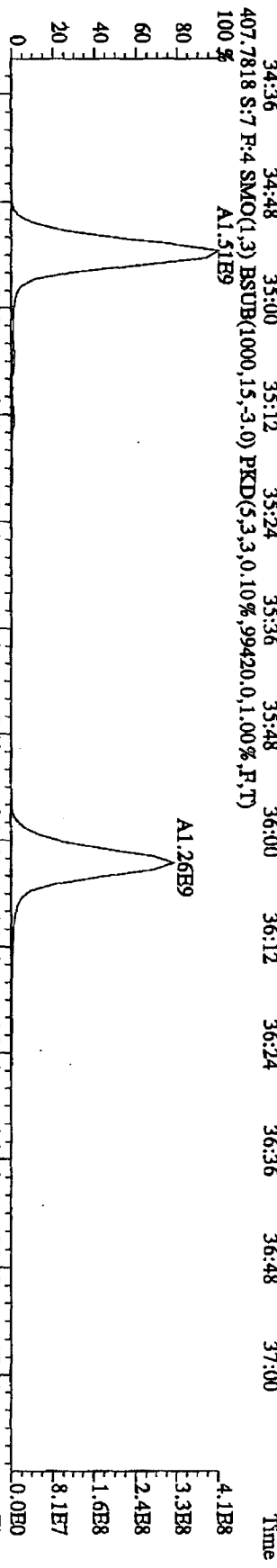
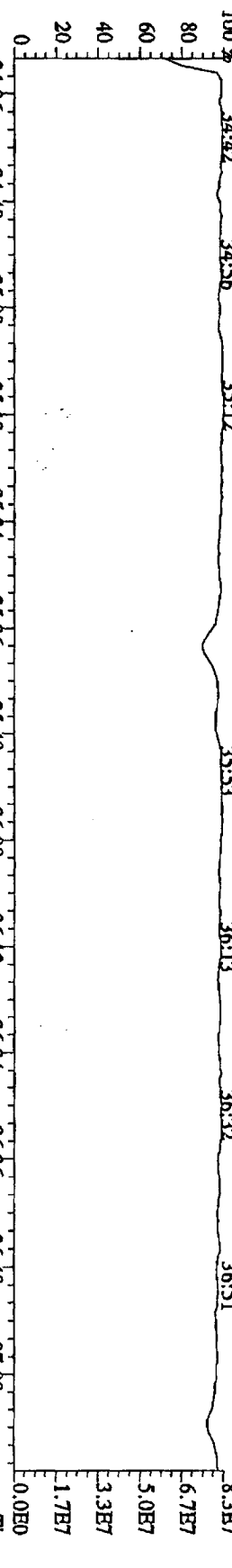
File:21JUL10A4D5 #1-469 Acq:21-JUL-2010 19:03:58 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#7 Text:ST0721D :CS-5 10DXN339 Exp:DIOXINRBS  
 342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



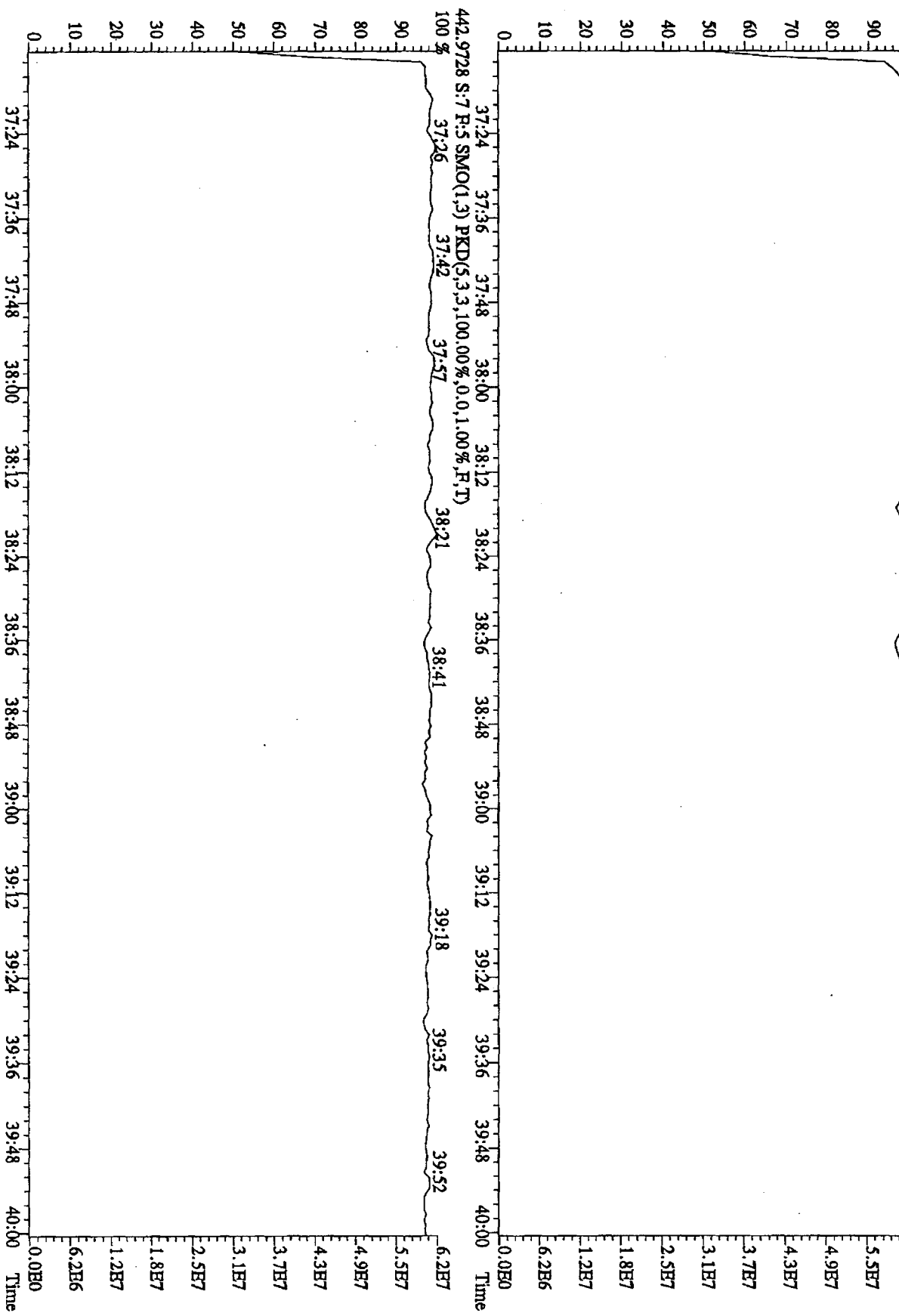
File: 21JL10A4D5 #1-287 Acq: 21-JUL-2010 19:03:58 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES



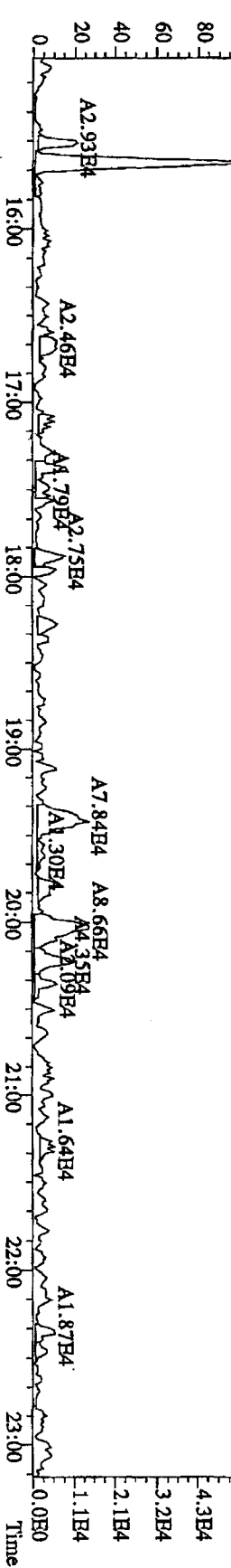
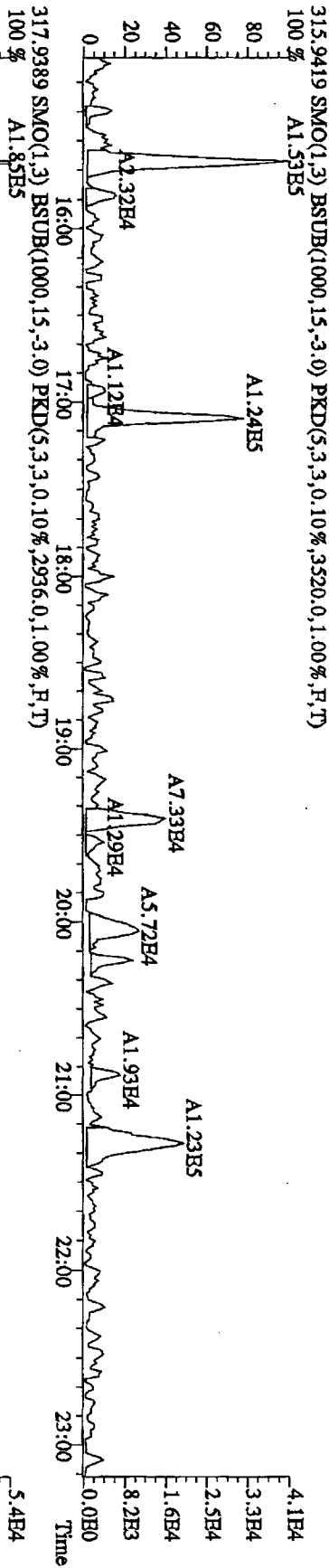
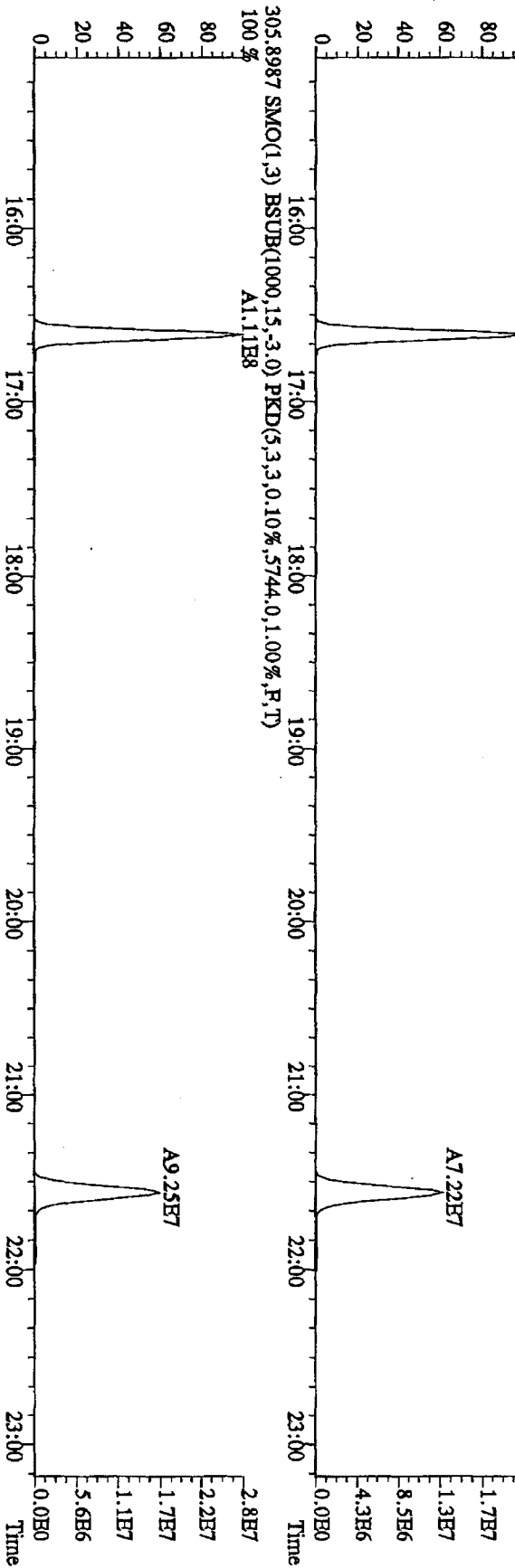
File: 211110A4D5 #1-201 Acq: 21-JUL-2010 19:03:58 GC HF+ Voltage STR Autospec-UltimaB  
 Sample#7 Text: ST0721D :CS-5 10DXN339 Exp: DIOXINRES  
 430.9728 S:7 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



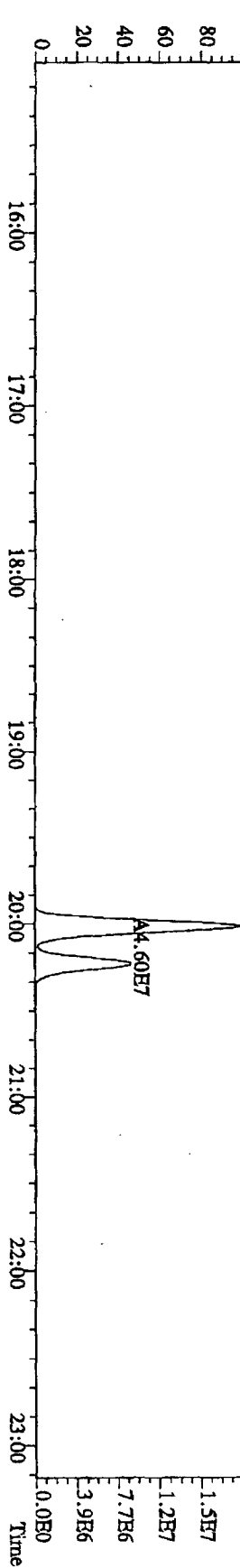
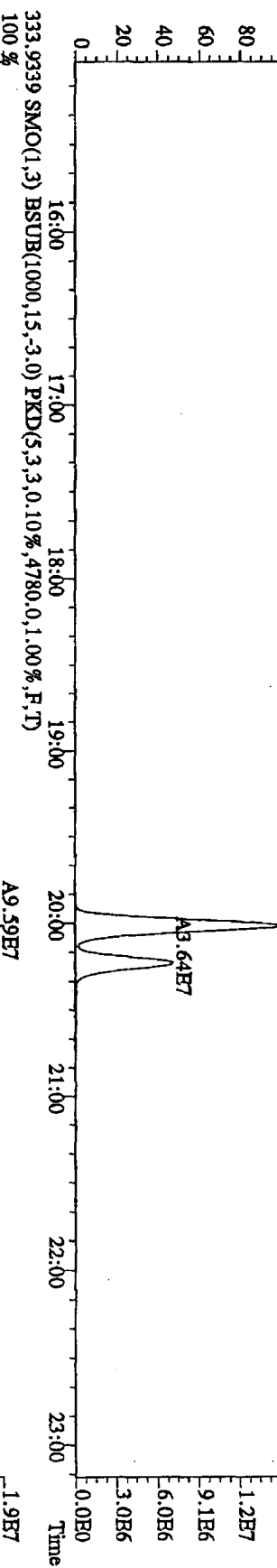
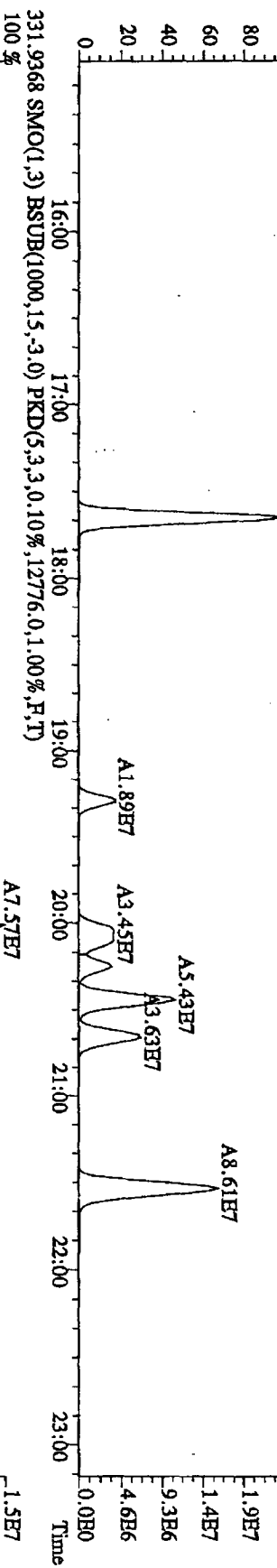
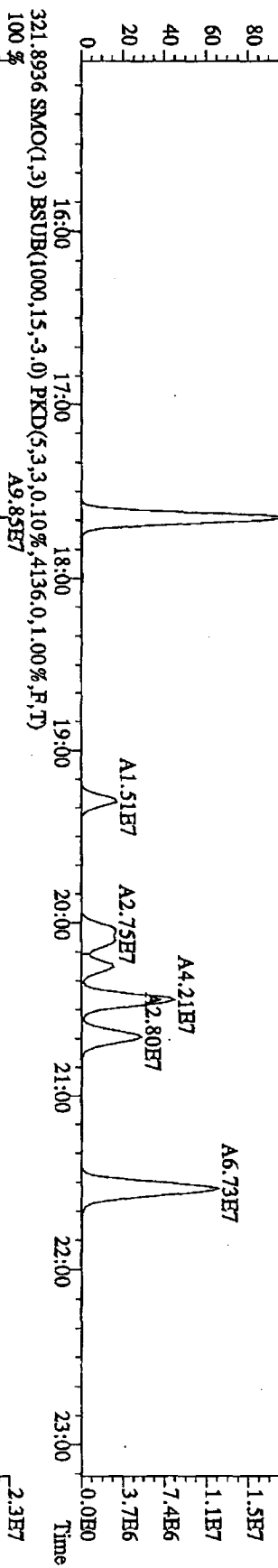
File: 21JUL10A4D5 #1-227 Acq: 21-JUL-2010 19:03:58 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#7 Text: ST0721D : CS-5 10DXN339 Exp: DIOXINRES  
 454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 100% 37:18 37:41 38:01 38:13 38:28 38:42 39:08 39:24 39:34 39:43 39:54



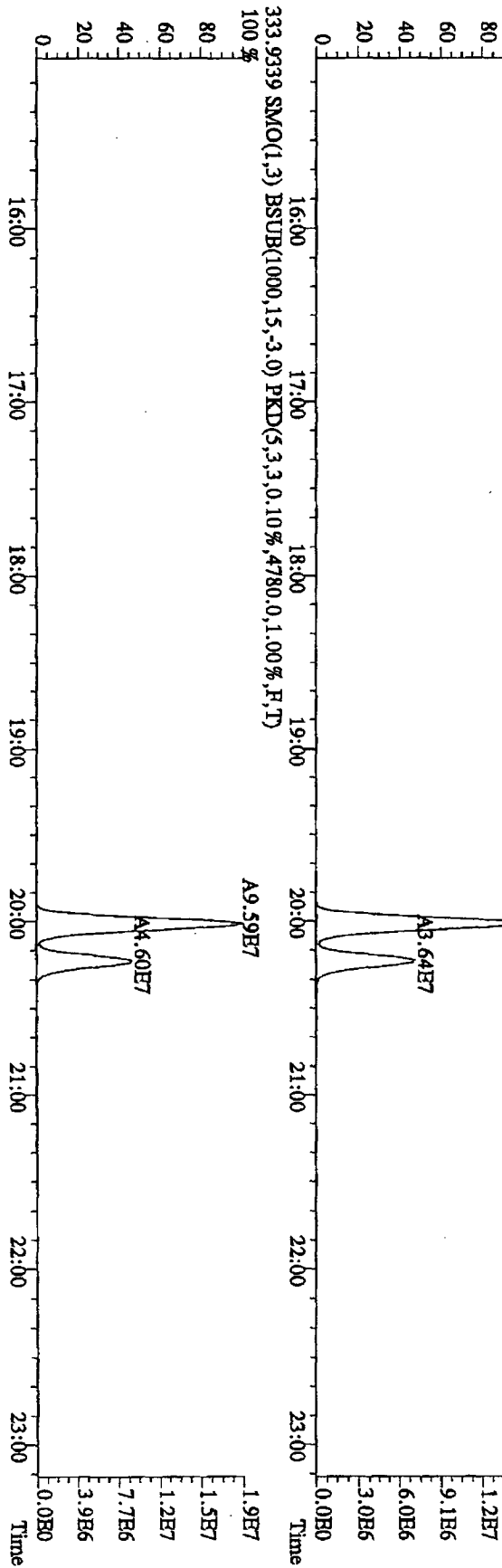
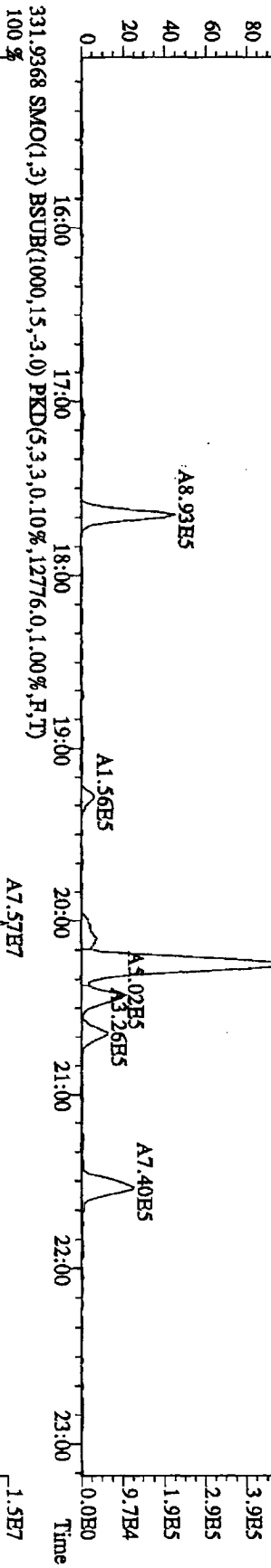
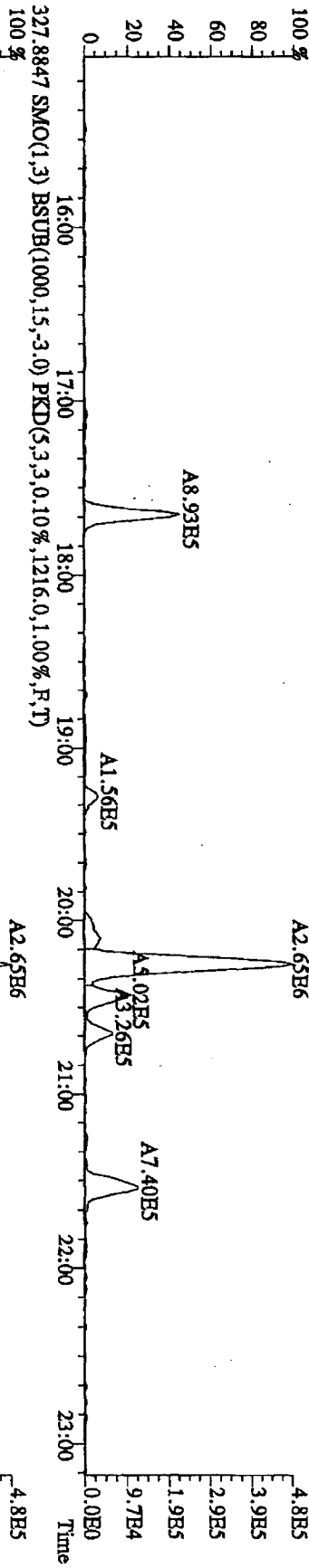
File:21JL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#1 Text:CP0721 :DB-5 CPM 3732-08 Exp:DIOXINRES  
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4200,0,1,00%,F,T)  
 100% A8.48B7



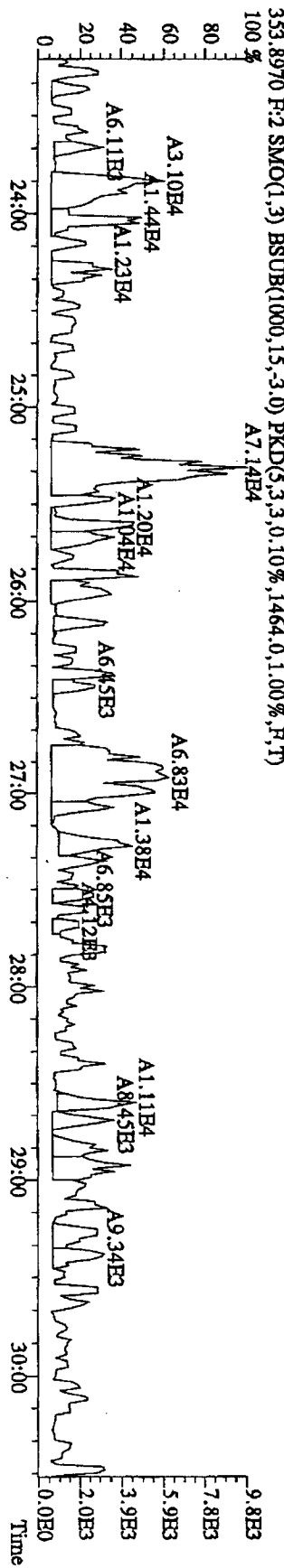
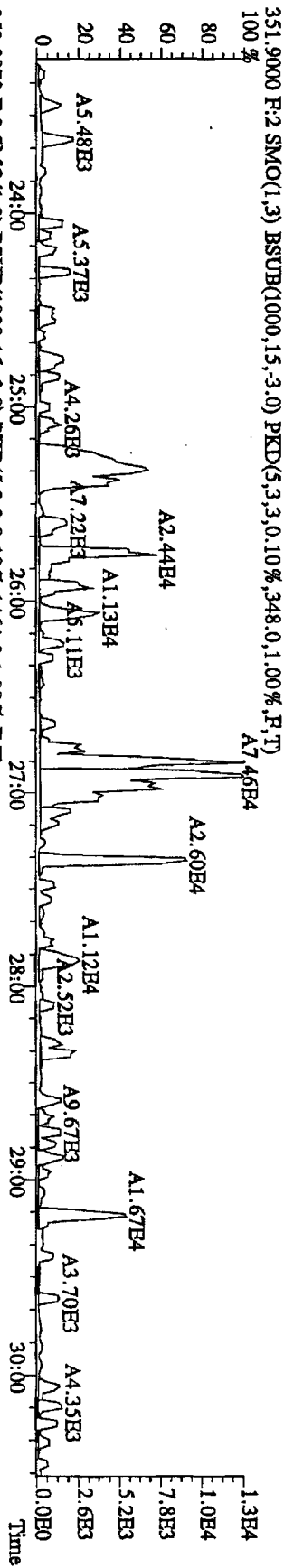
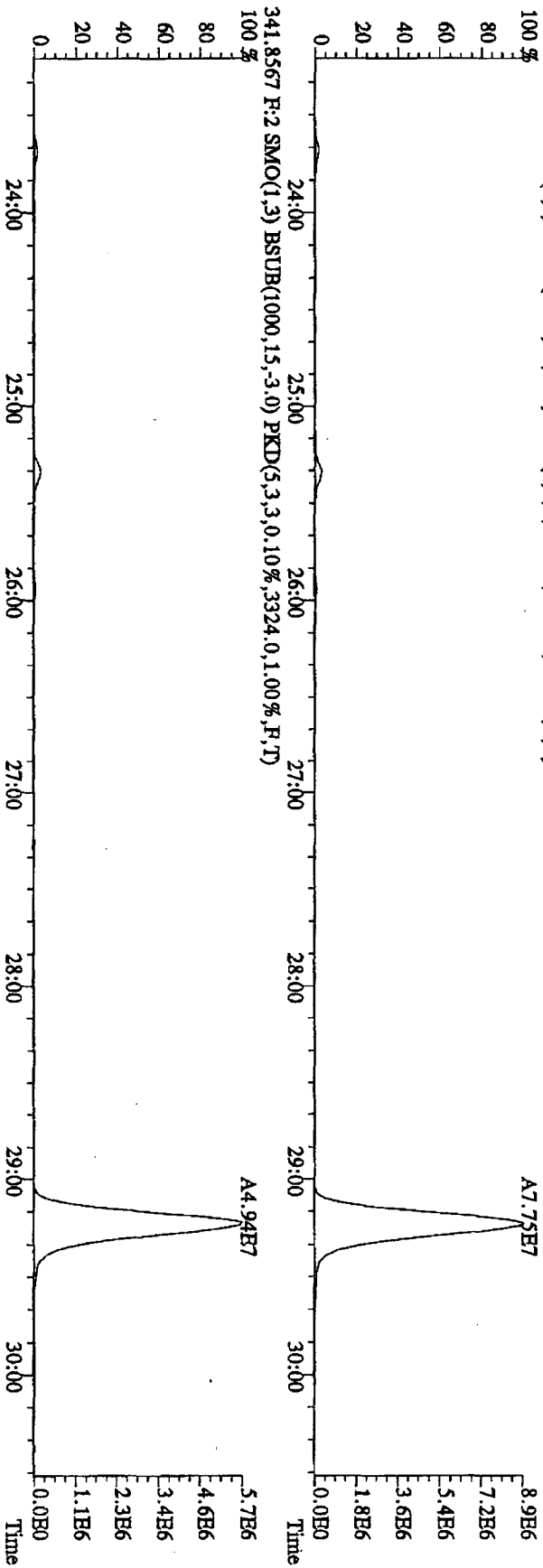
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 14:32:55 GC BI+ Voltage SIR Autospec-UltimaB  
 Sample#1 Text: CP0721 ;DB-5 CP5M 3732-08 Exp: DIOXINRES  
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2940,0,1,00%,F,T)  
 100% A7.84E7



File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC BI+ Voltage SIR Autospec-Ultimah  
 Sample#1 Text:CP0721 :DB-5 CPM 3732-08 Exp:DIOXINRES  
 327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1216,0,1.00%,F,T)  
 100%

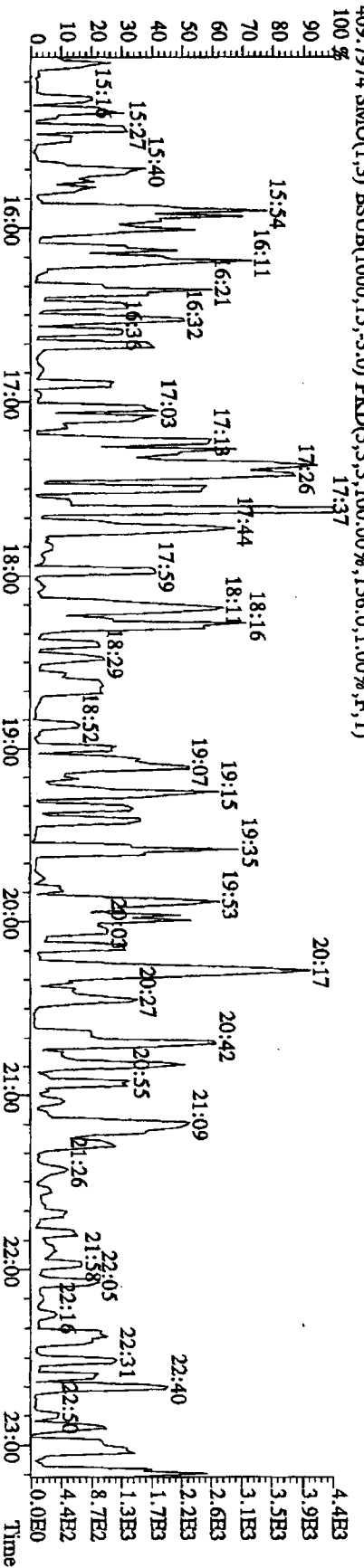
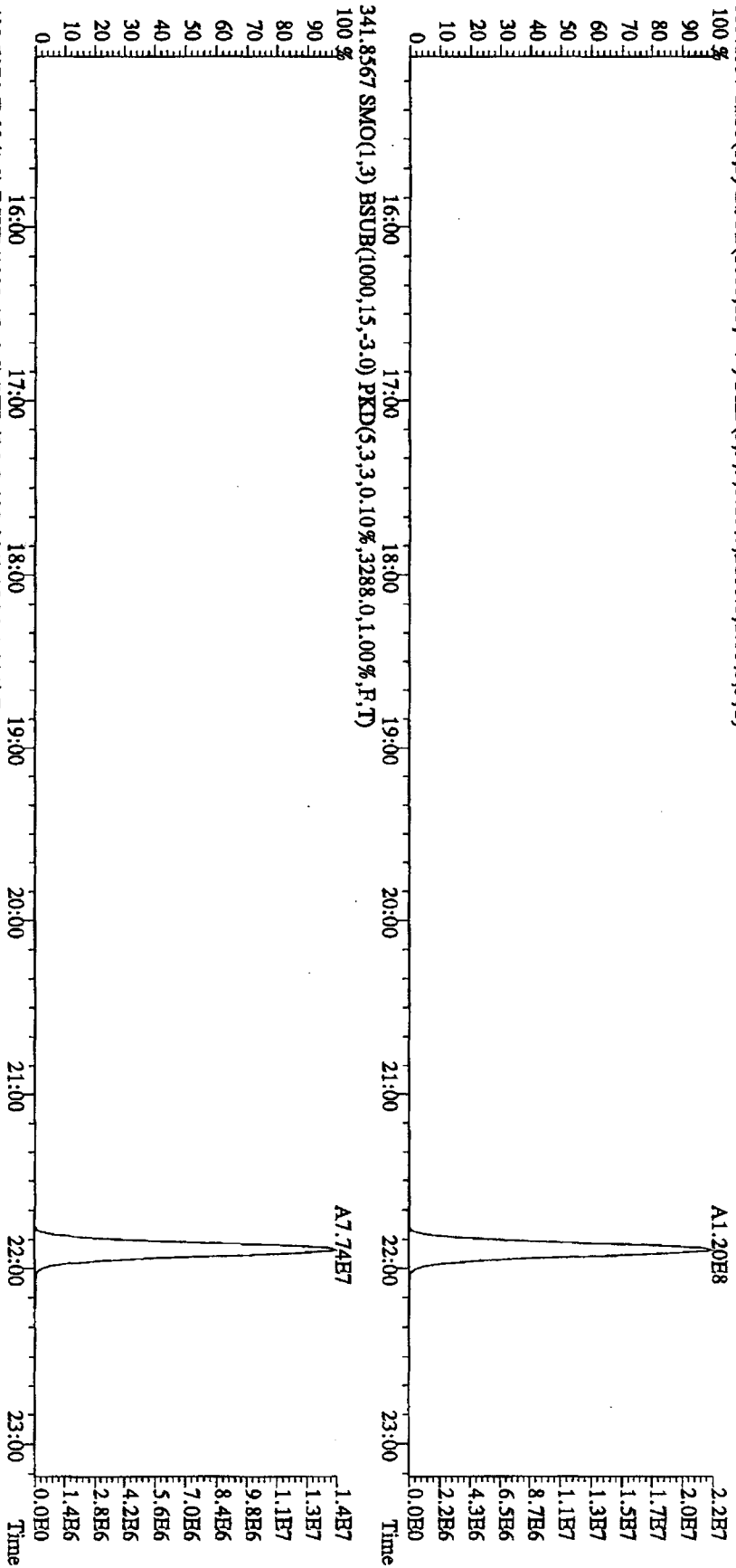


File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 14:32:55 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#1 Text: CP0721 :DB-5 CPSM 3732-08 Exp: DIOXINRES  
 339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2832,0.1,0.0%,F,T)  
 100%

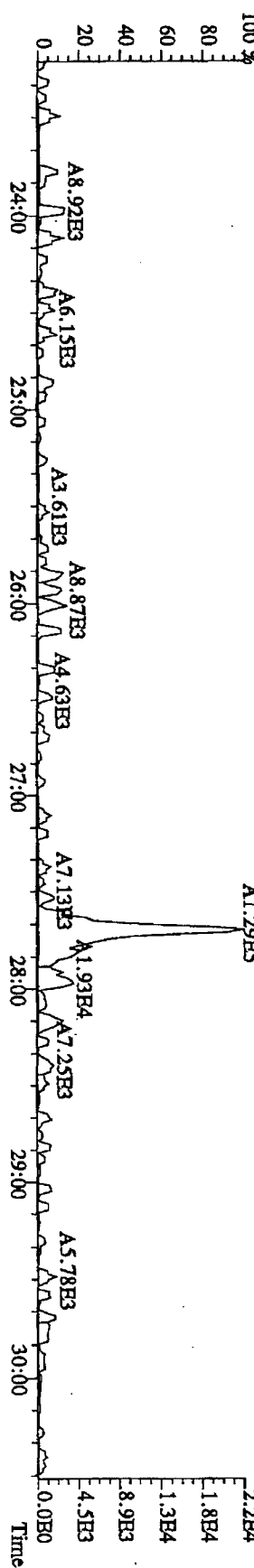
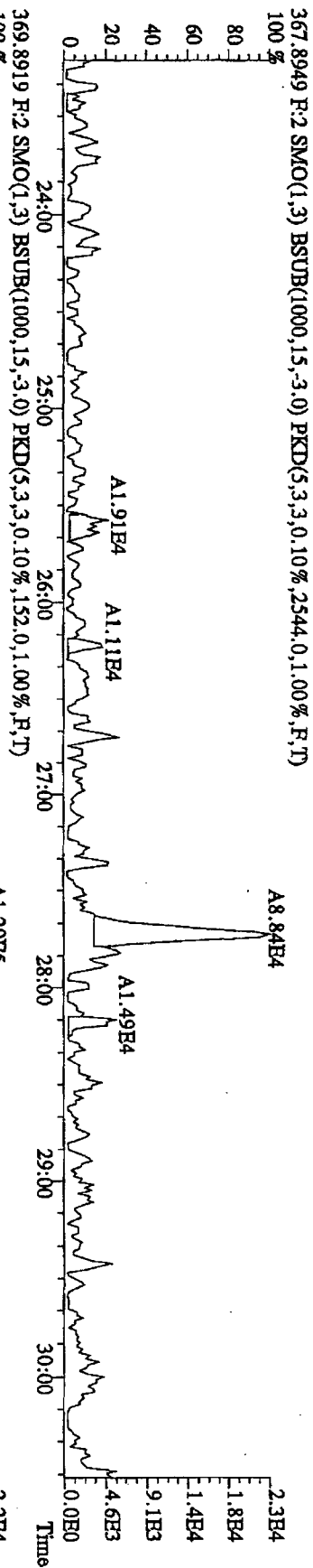
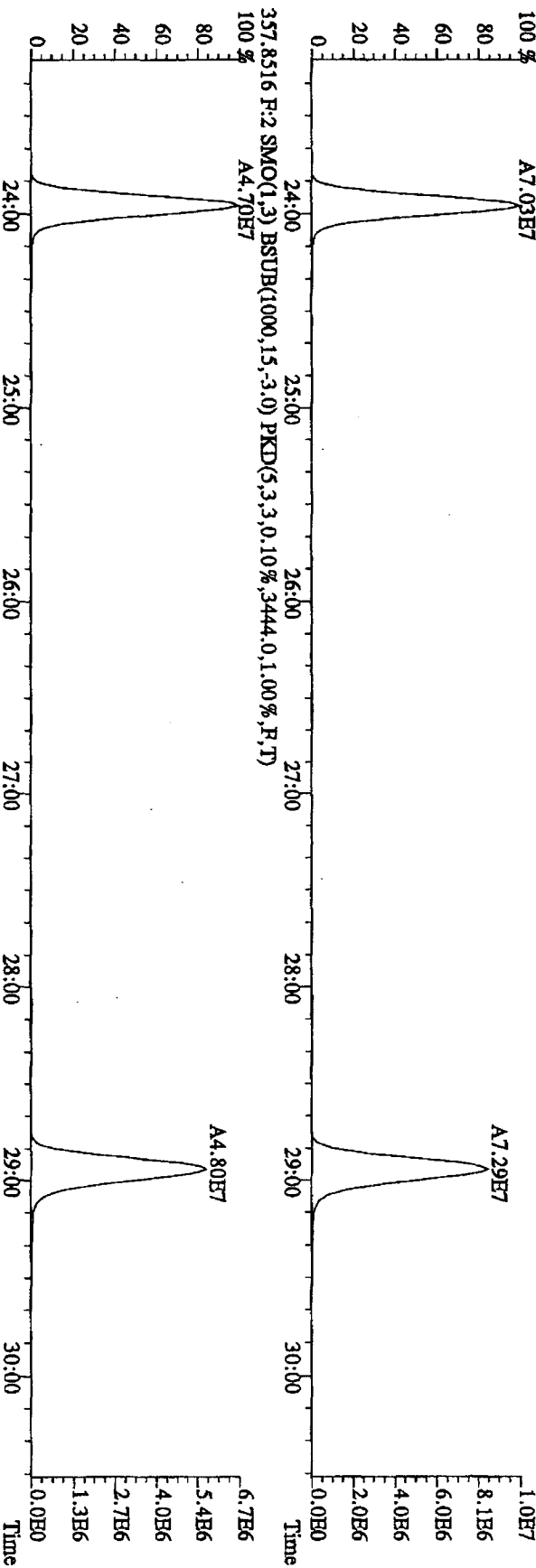




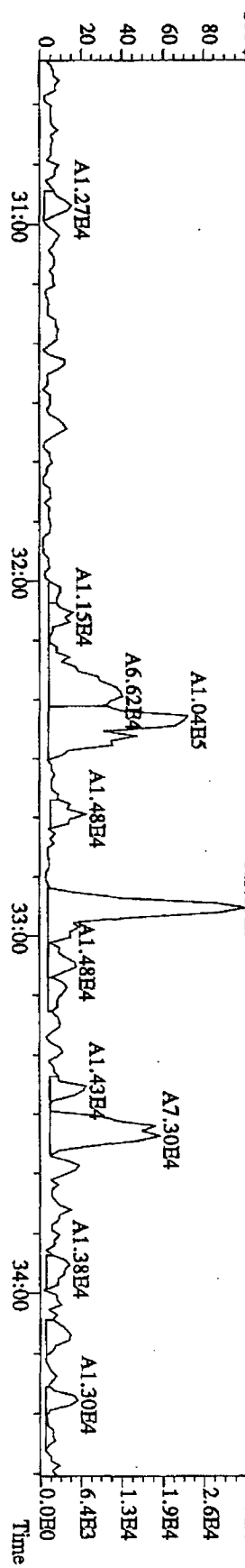
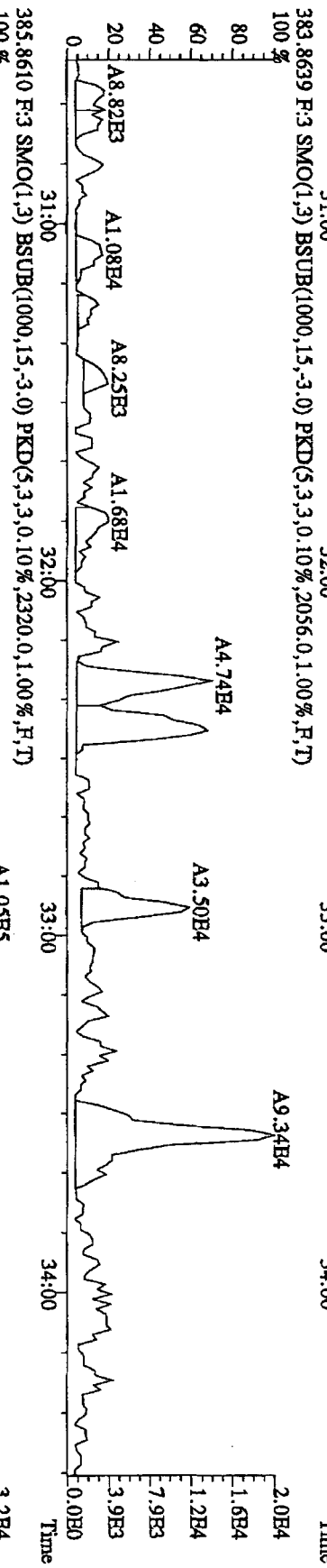
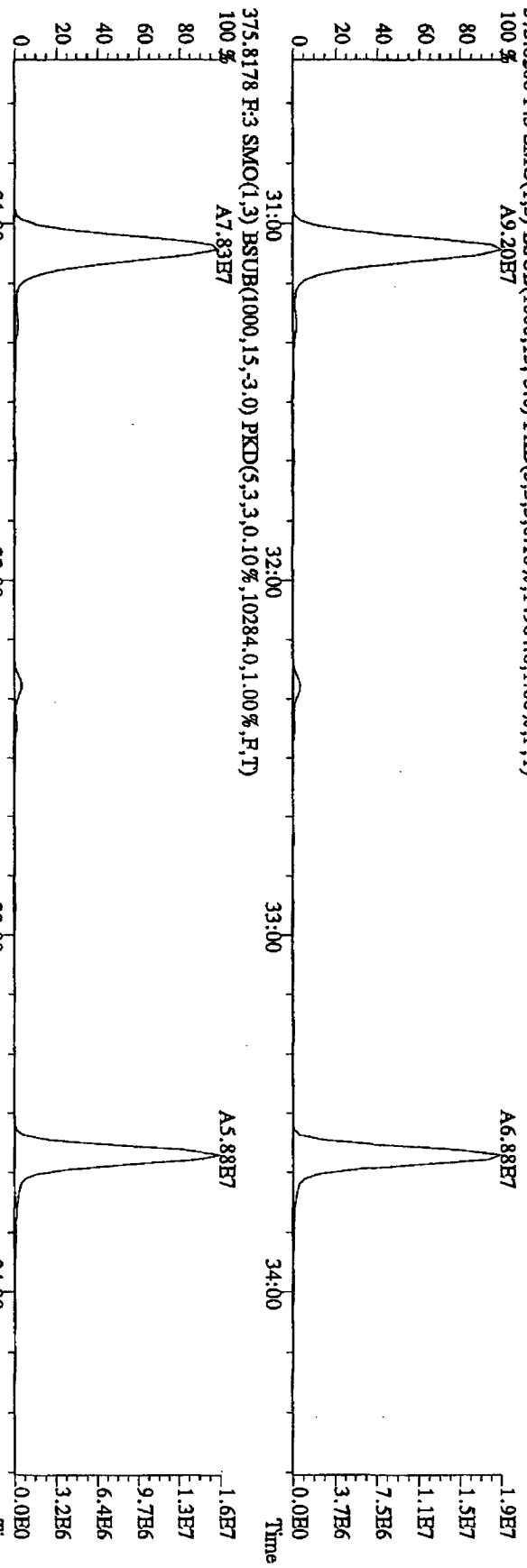
File: 21JUL10A4D5 #1-541 Acq: 21-JUL-2010 14:32:55 GC EI+ Voltage: SIR Autospec-UltimaB  
 Sample#1 Text: CP0721 :DB-5 CP5M 3732-08 Exp: DIOXINRES  
 339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,156.0,1.00%,F,T)



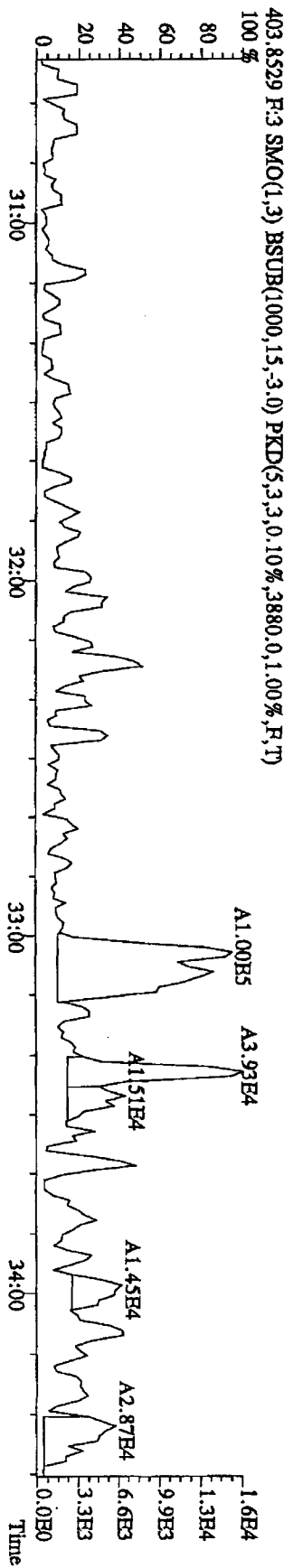
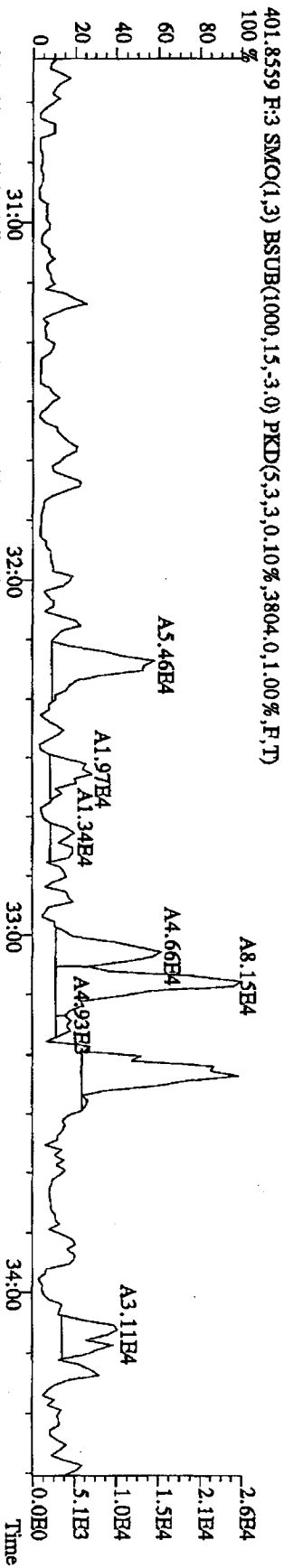
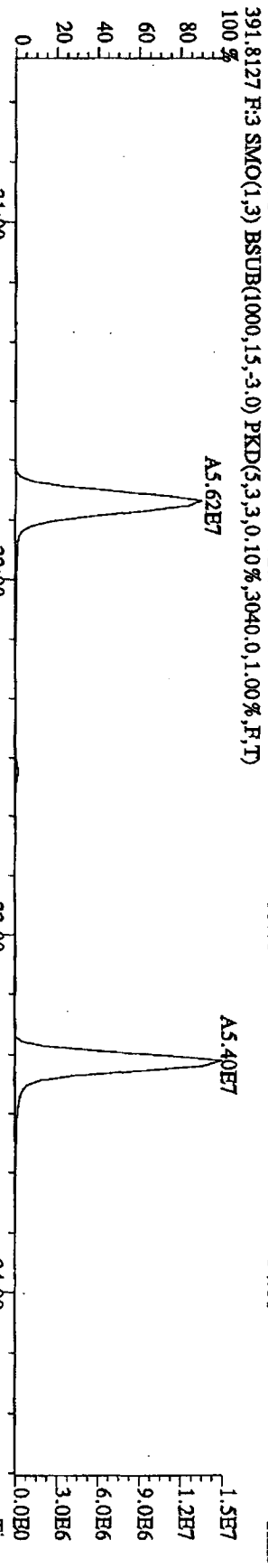
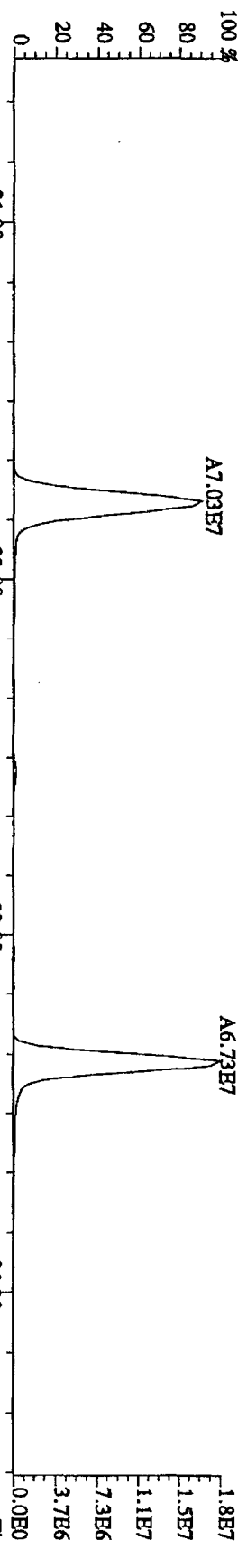
File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#1 Text: CP0721 : DB-5 CPSM 3732-08 Exp: DIOXINRES  
 355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4464,0.1,0.00%,F,T)  
 100% A7.03E7



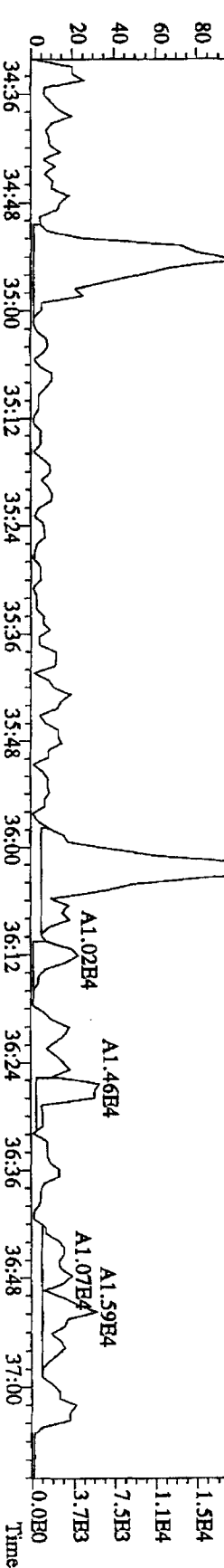
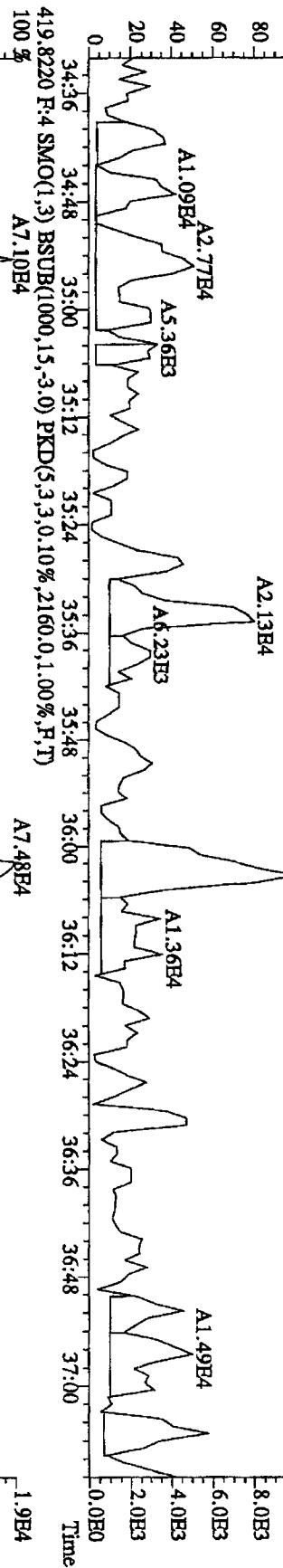
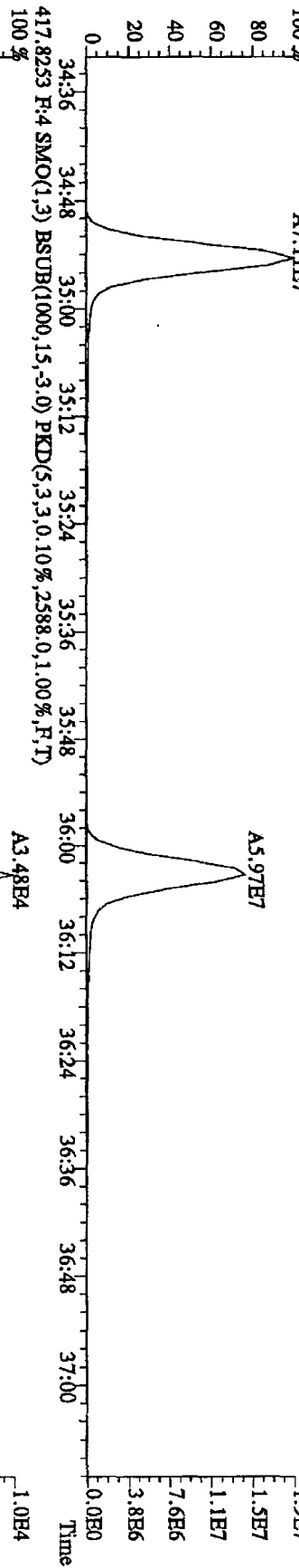
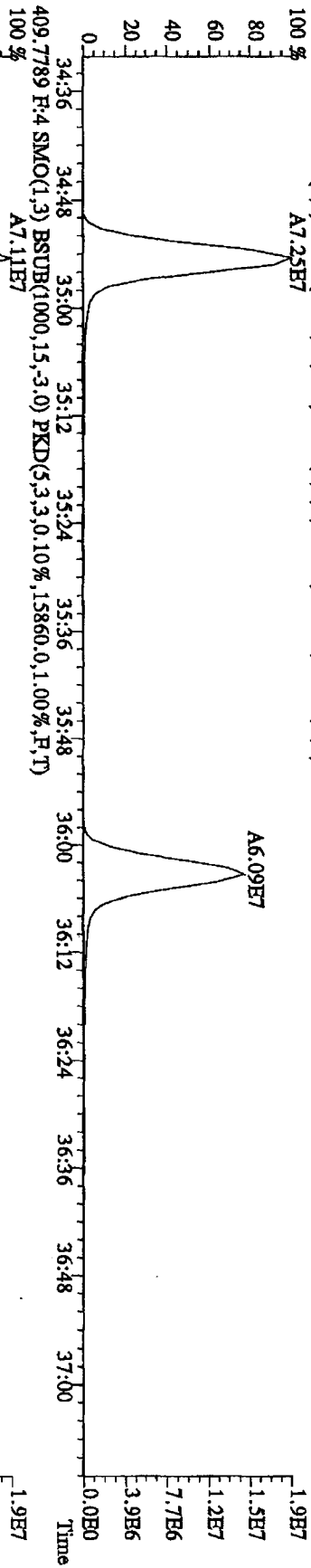
File:211L10A4D5 #1-286 Acq:21-JUL-2010 14:32:55 GC HI + Voltage SIR Autospec-UltimaB  
 Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES  
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,14964,0,1.00%,F,T)  
 100%



File:21JUL10A4DS #1-286 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES  
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5064,0,1,00%,F,T)  
 100%



File:211L10A4D5 #1-200 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage 518 Autospec-Ultima  
 Sample#1 Text:CP0721 :DB-5 CP5M 3732-08 Exp:DIOXINRES  
 409.7789 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.5860,0.1,0.00%,F,T)  
 100% A7.25E7

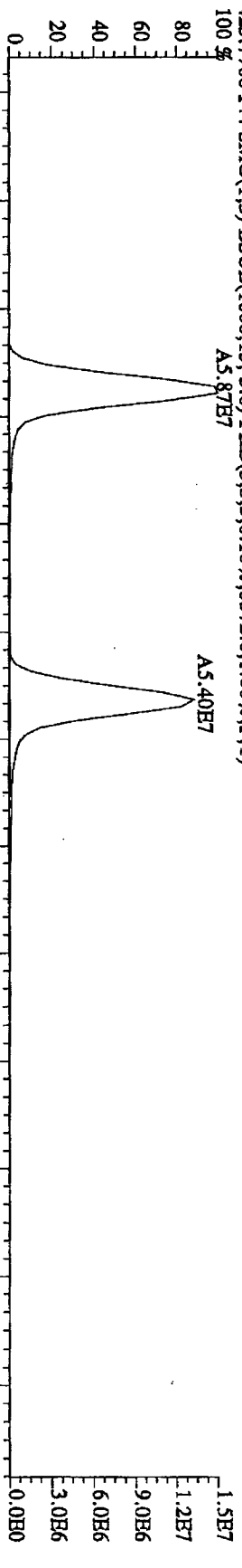


File: 21JUL10A4D5 #1-200 Acq: 21-JUL-2010 14:32:55 GC EI+ Voltage STR Autospec-Ultimate

Sample#1 Text: CP0721 : DB-5 CPSM 3732-08 Exp: DIOXINRES

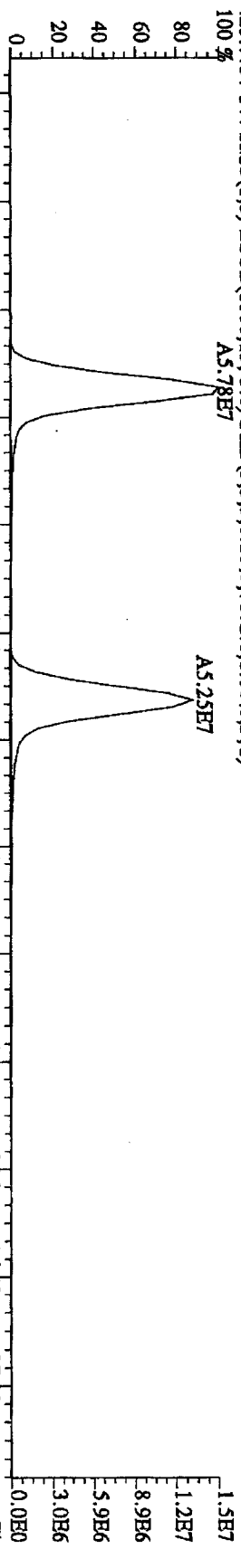
423.7766 F: 4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5372.0,1.00%,F,T)

100% A5.87E7



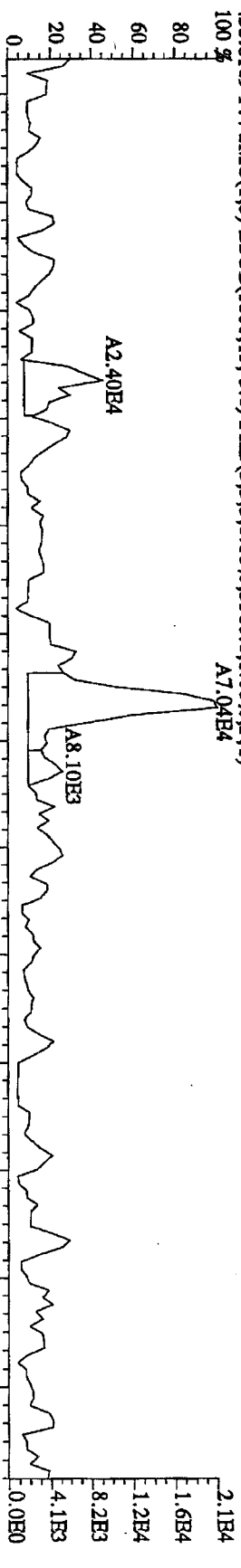
425.7737 F: 4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7872.0,1.00%,F,T)

100% A5.78E7



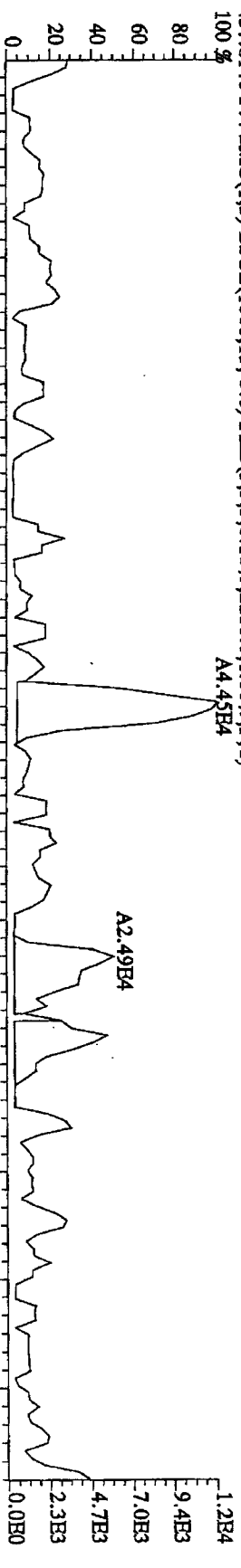
435.8169 F: 4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3560.0,1.00%,F,T)

100% A7.04E4

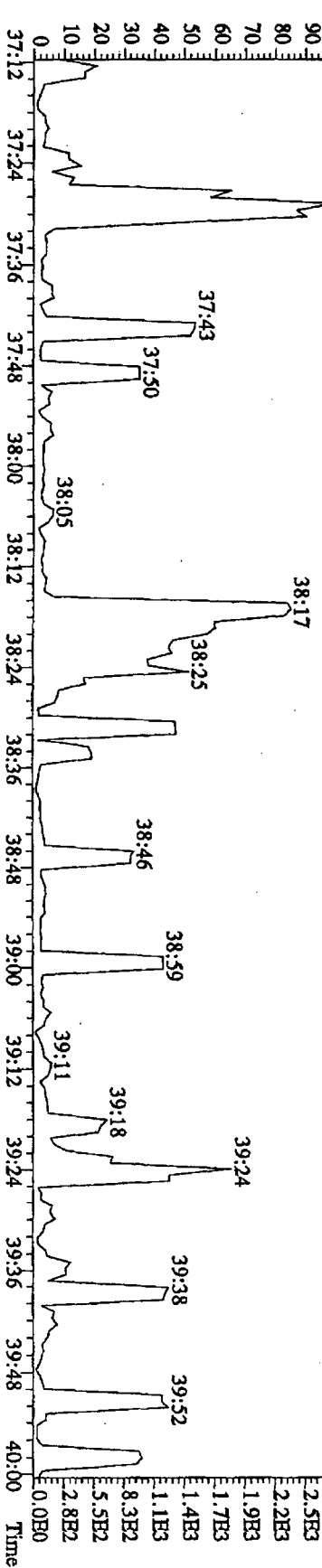
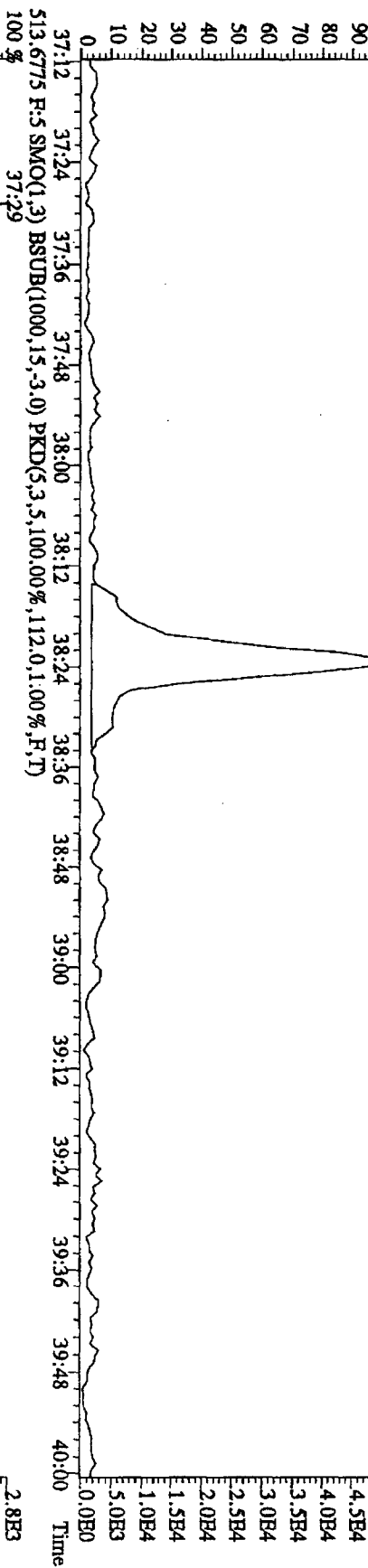
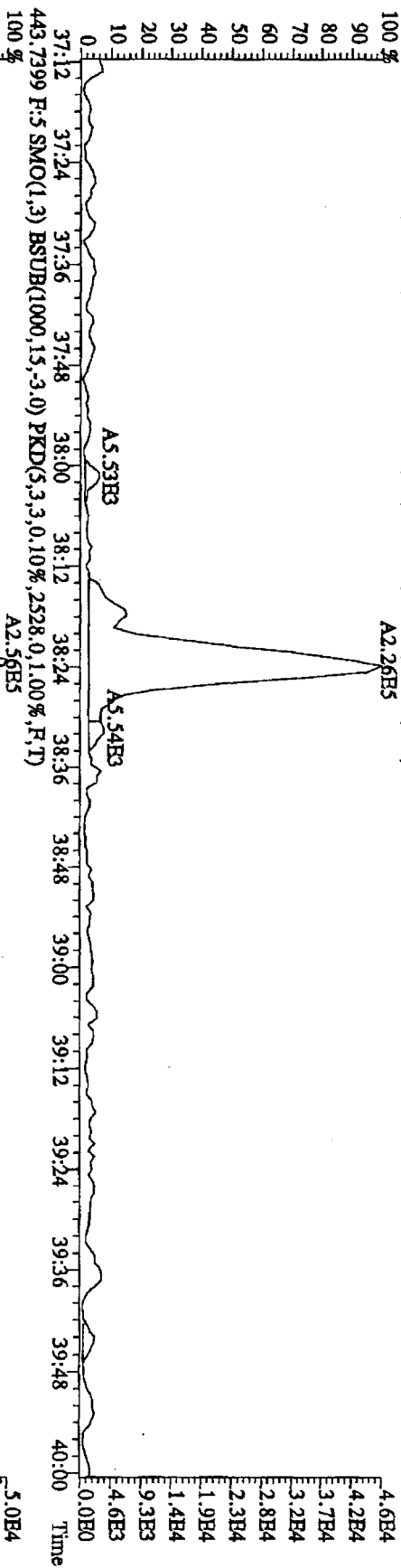


437.8140 F: 4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2288.0,1.00%,F,T)

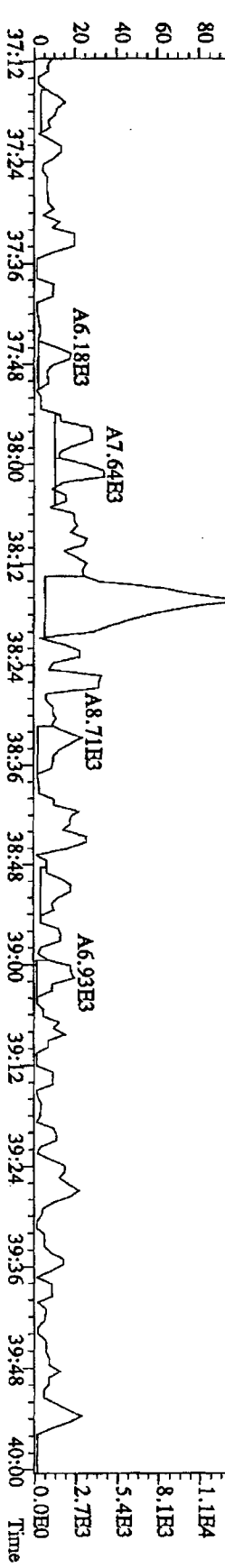
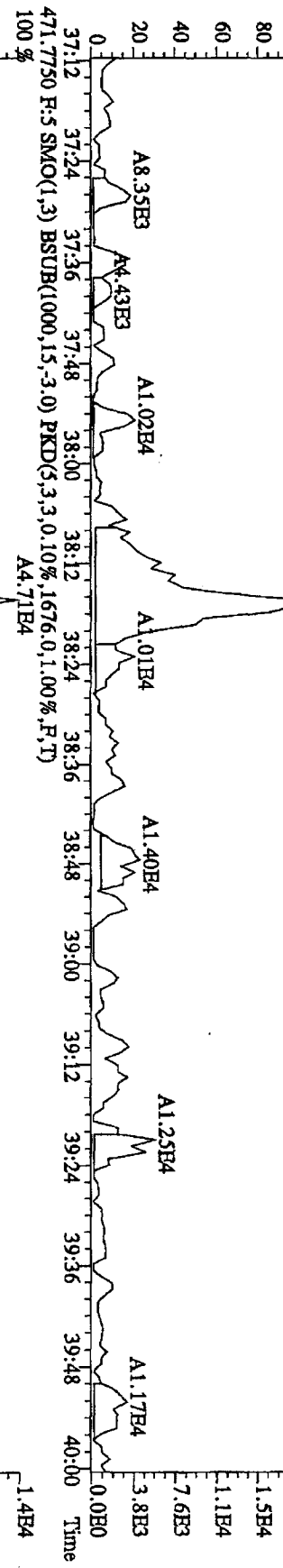
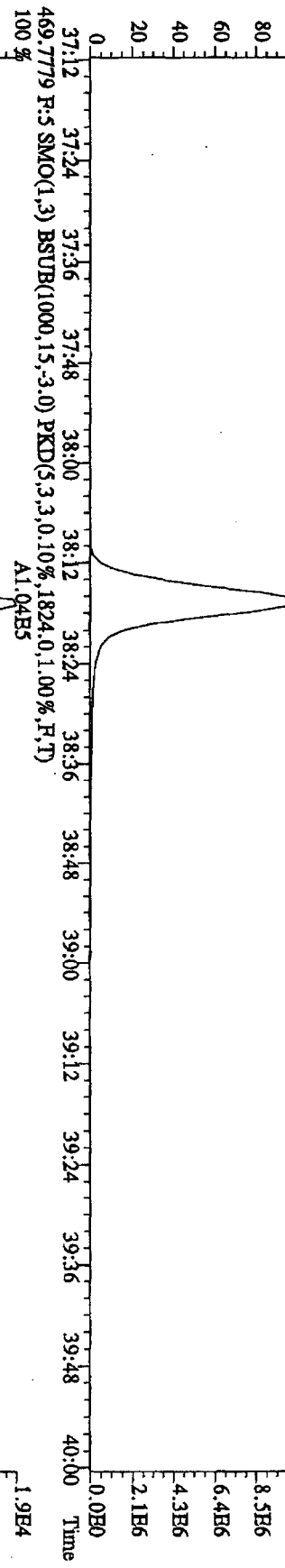
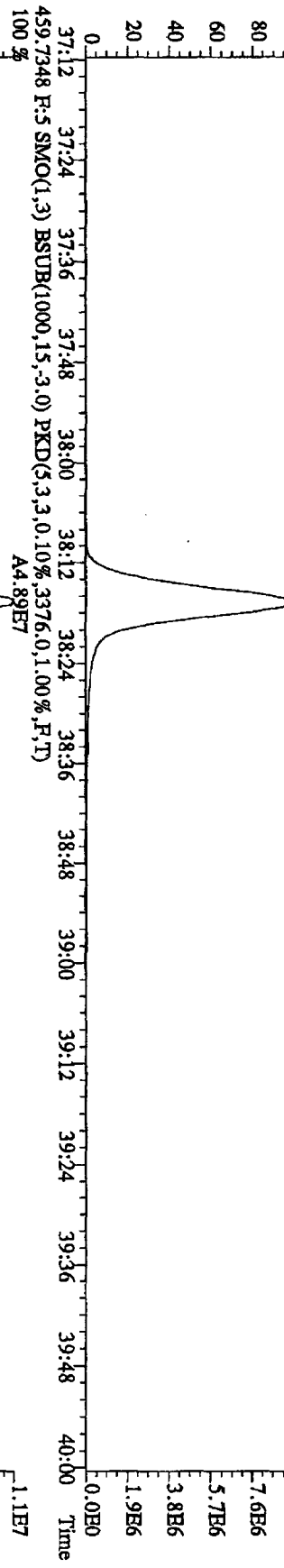
100% A4.45E4



File:21JUL10A4D5 #1-228 Acq:21-JUL-2010 14:32:55 GC BF+ Voltage SIR Autospec-UltimaB  
 Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES  
 441.7428 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1744.0,1.00%,F,T)  
 100% A2.26E5

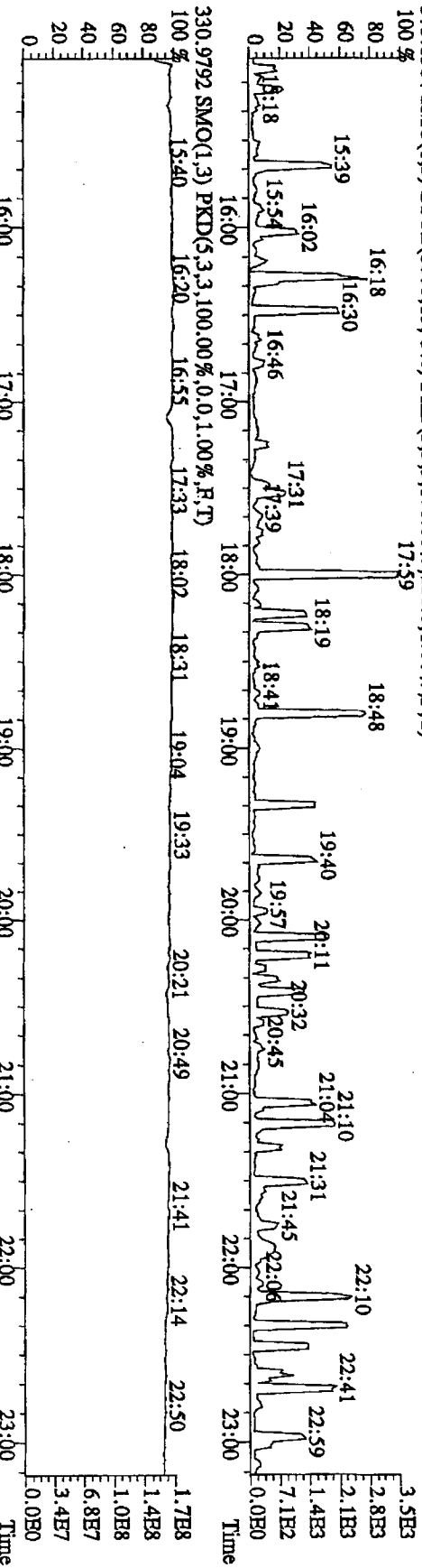
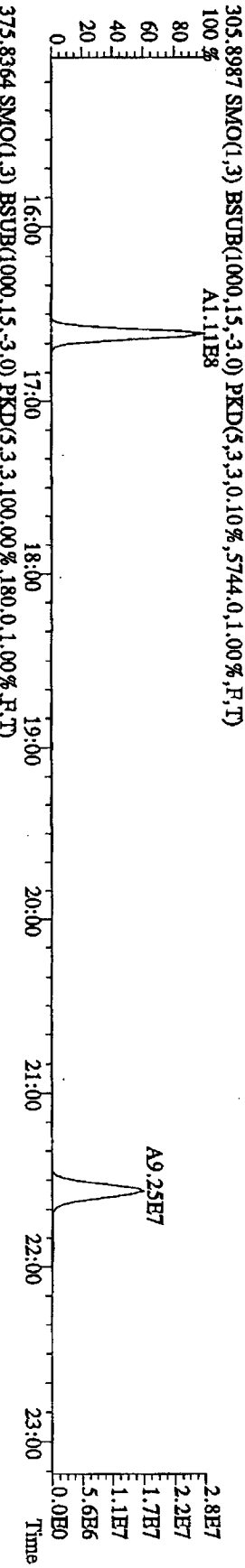
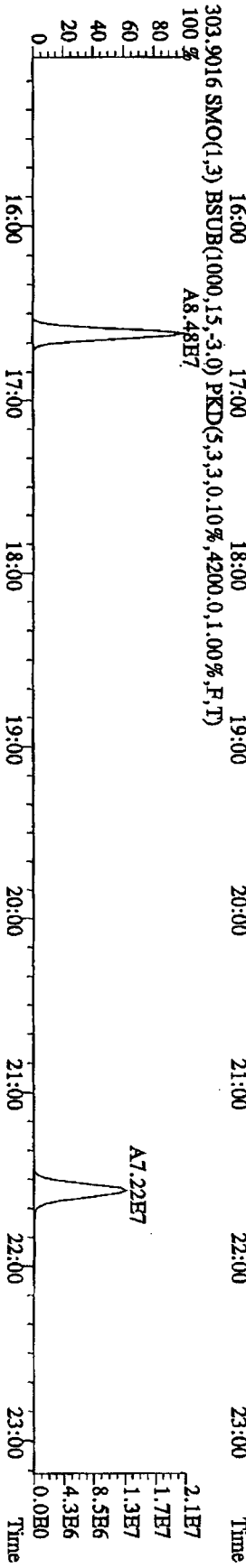
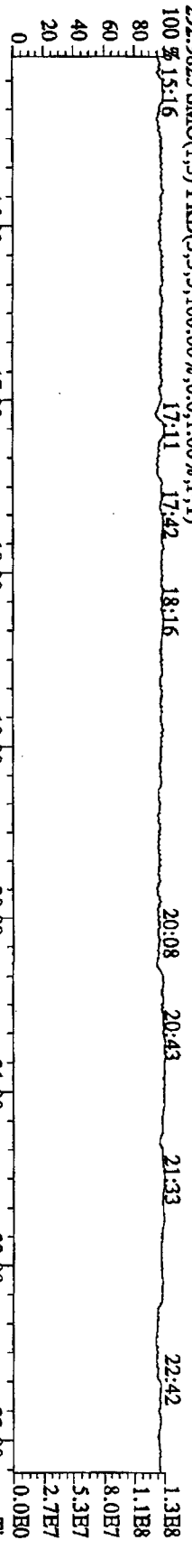


File:211L10A4D5 #1-228 Acq:21-JUL-2010 14:32:55 GC HI+ Voltage SIR Autospec-UltimaB  
 Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES  
 459.7348 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1592.0,1.00%,F,T)  
 100% A4.36E7

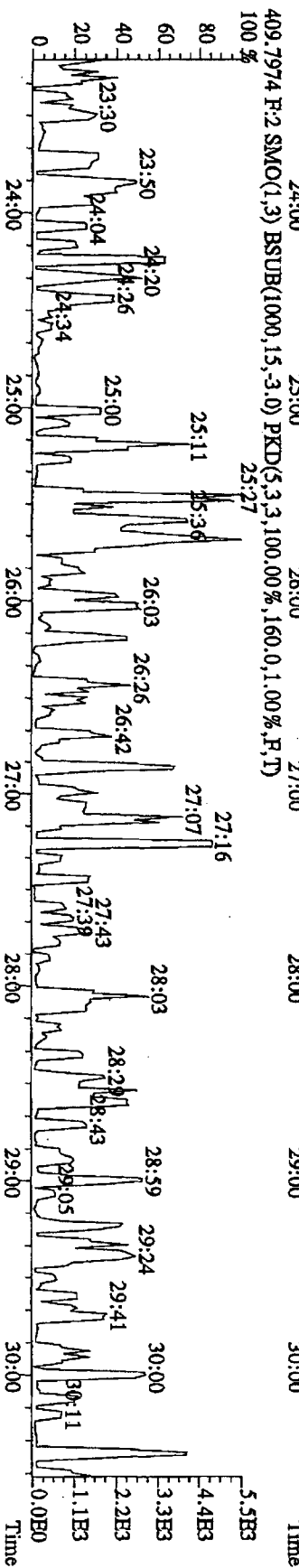
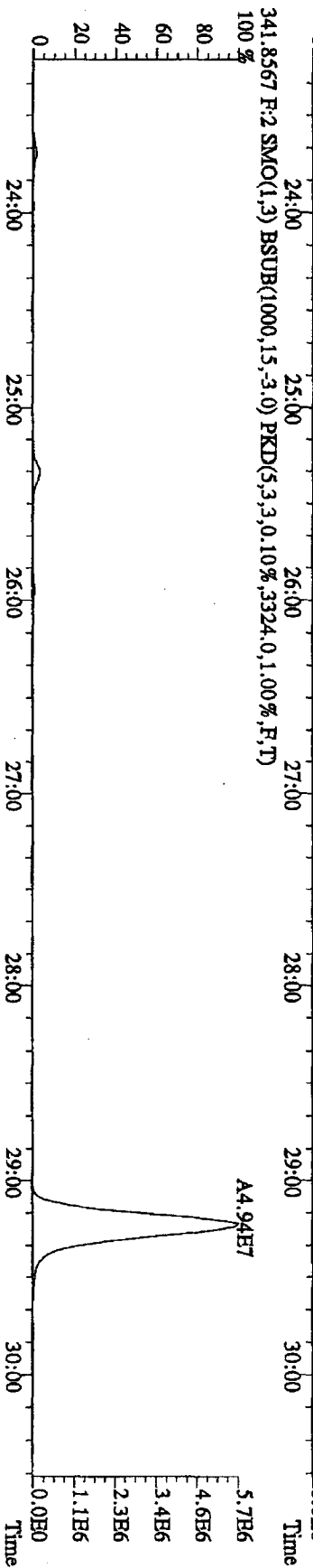
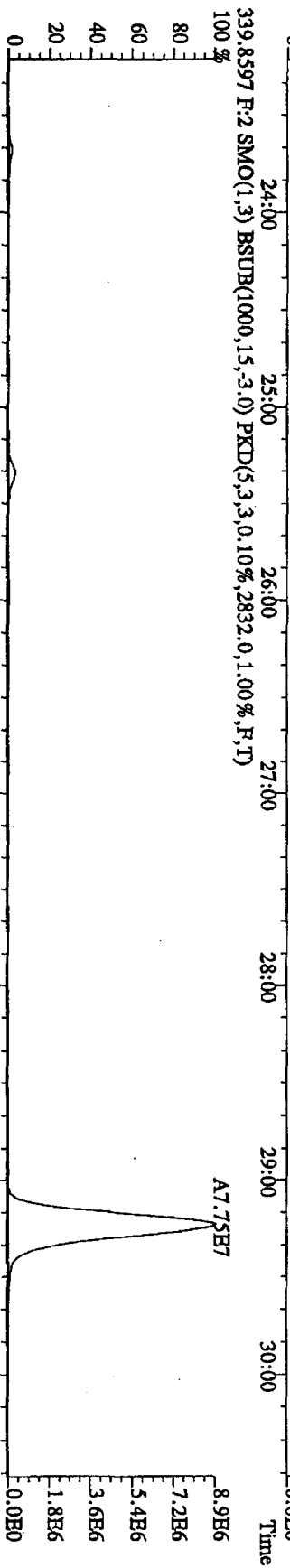
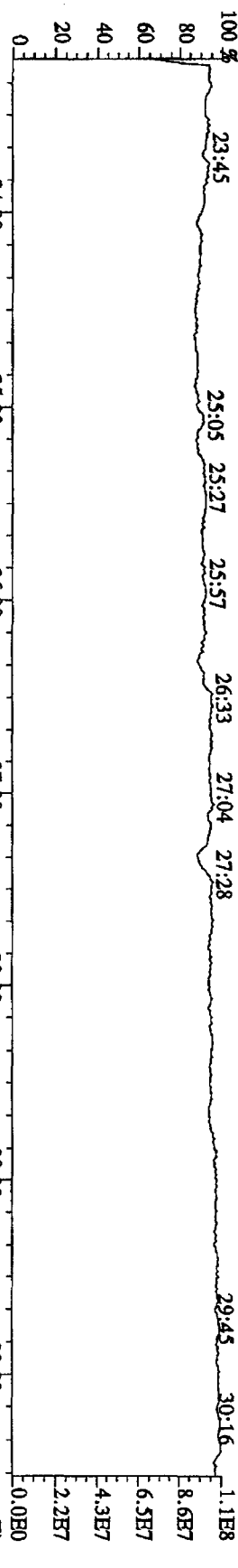




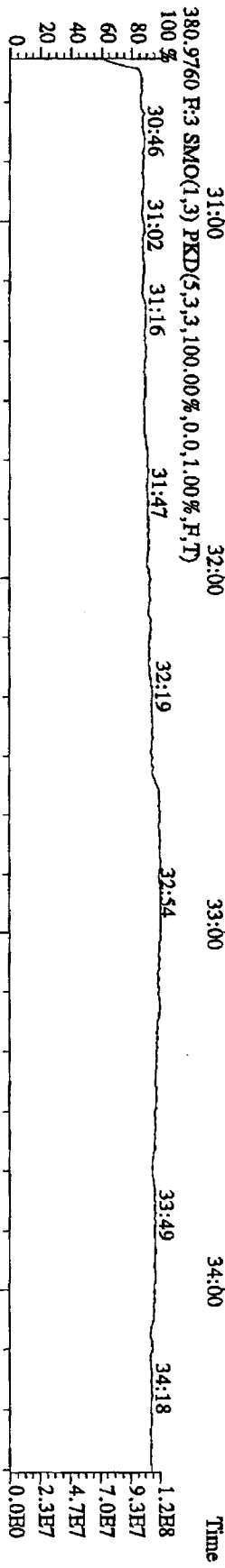
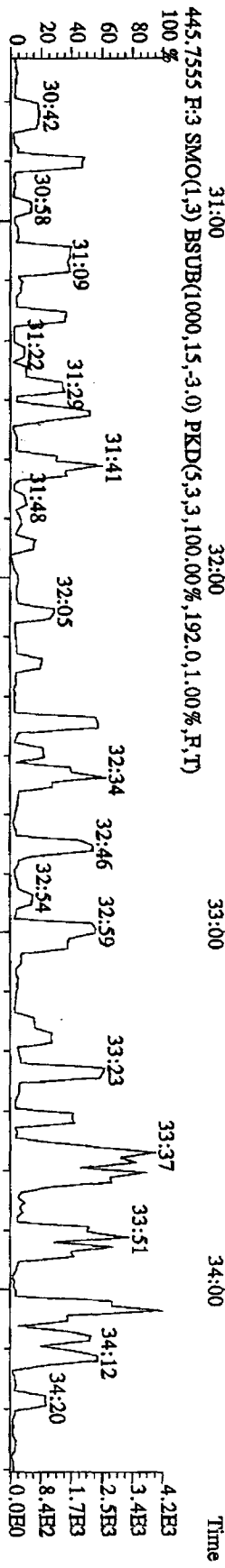
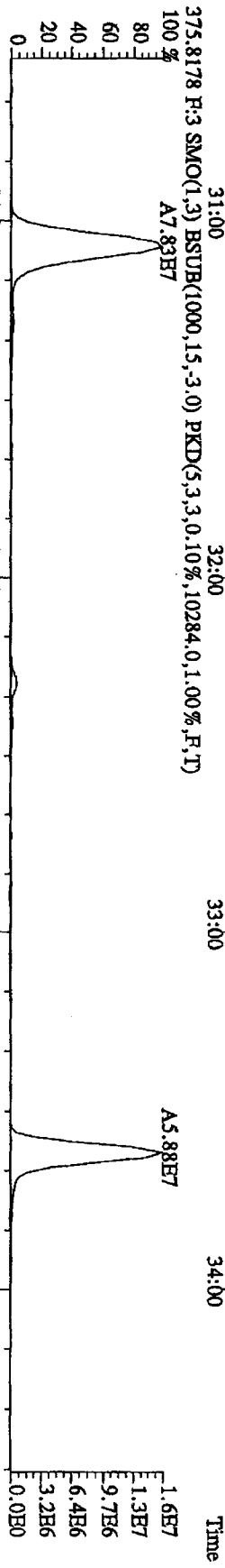
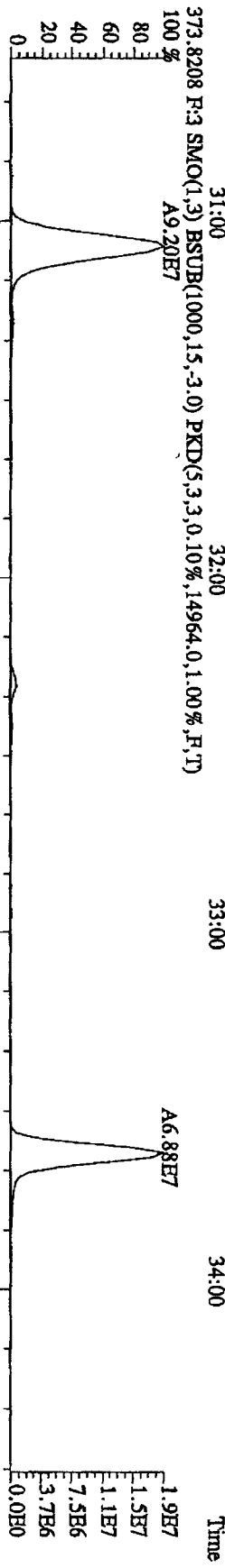
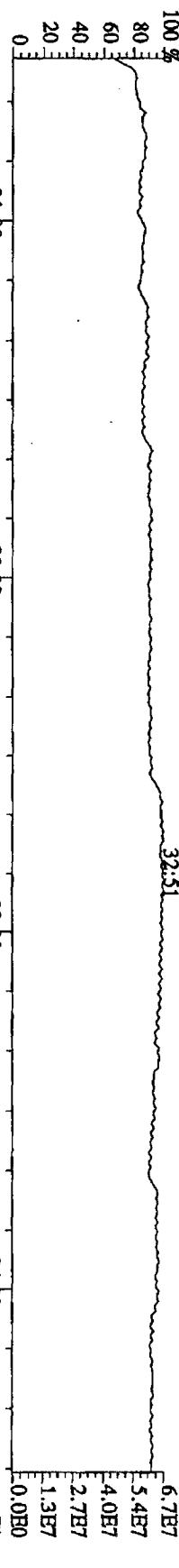
File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 14:32:55 GC EI+ Voltage:519V Autospec-Ultimate  
 Sample#1 Text:CP0721 :DB-5 CP5M 3732-08 Exp:DIOXINRES



File: 21JUL10A4D5 #1.470 Acq: 21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autopsc-UltimaB  
 Sample#1 Text: CP0721 :DB-5 CP5M 3732-08 Exp: DIOXINRES  
 342.9792 F:2 SMO(1,3) PKD(5,3,3,100,00%,0.0,1.00%,F,T)  
 100%



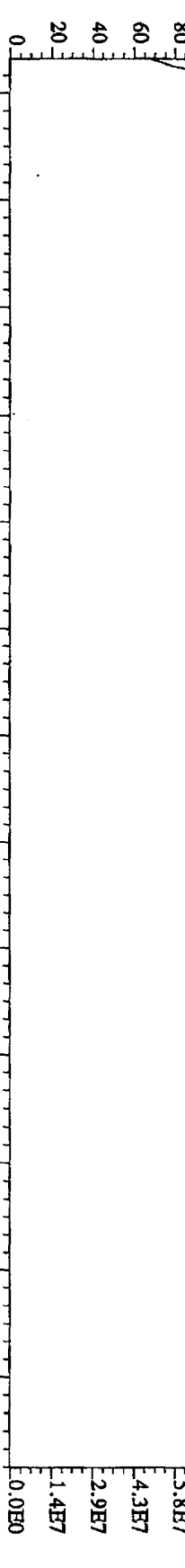
File:21IU10A4D5 #1-286 Acq:21-JUL-2010 14:32:55 GC RI+ Voltage STR Autospec-UltimaB  
 Sample#1 Text:CP0721 :DB-5 CPSM 3732-08 Exp:DIOXINRES



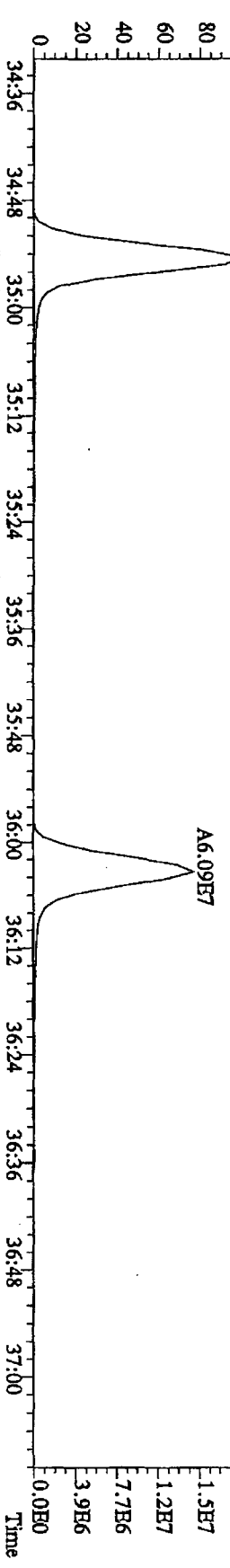
File: 211L10A4D5 #1-200 Acq: 21-JUL-2010 14:32:55 GC EI + Voltage SIR Autospec-Ultimat

Sample#1 Text: CP0721 : DB-5 CPSM 3732-08 Exp: DIOXINRES

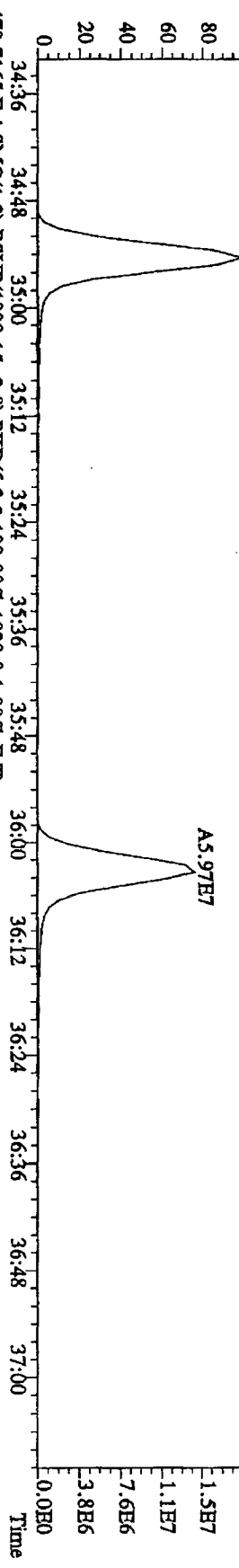
430.9728 F: 4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



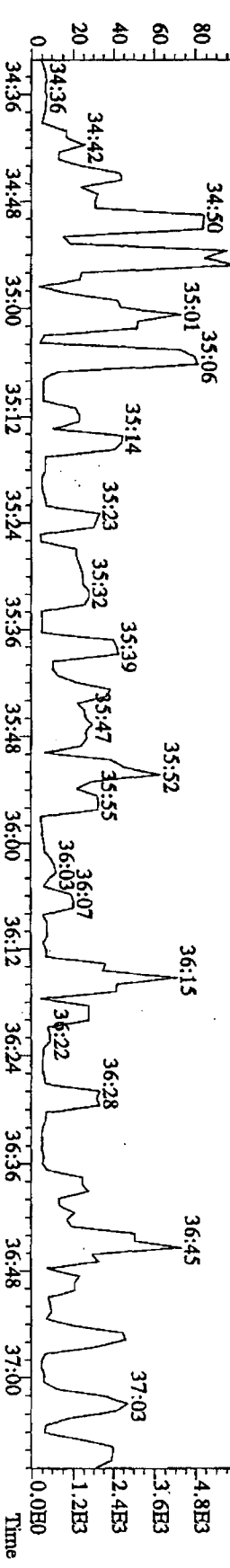
407.7818 F: 4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7924,0,1.00%,F,T)



409.7789 F: 4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15860,0,1.00%,F,T)

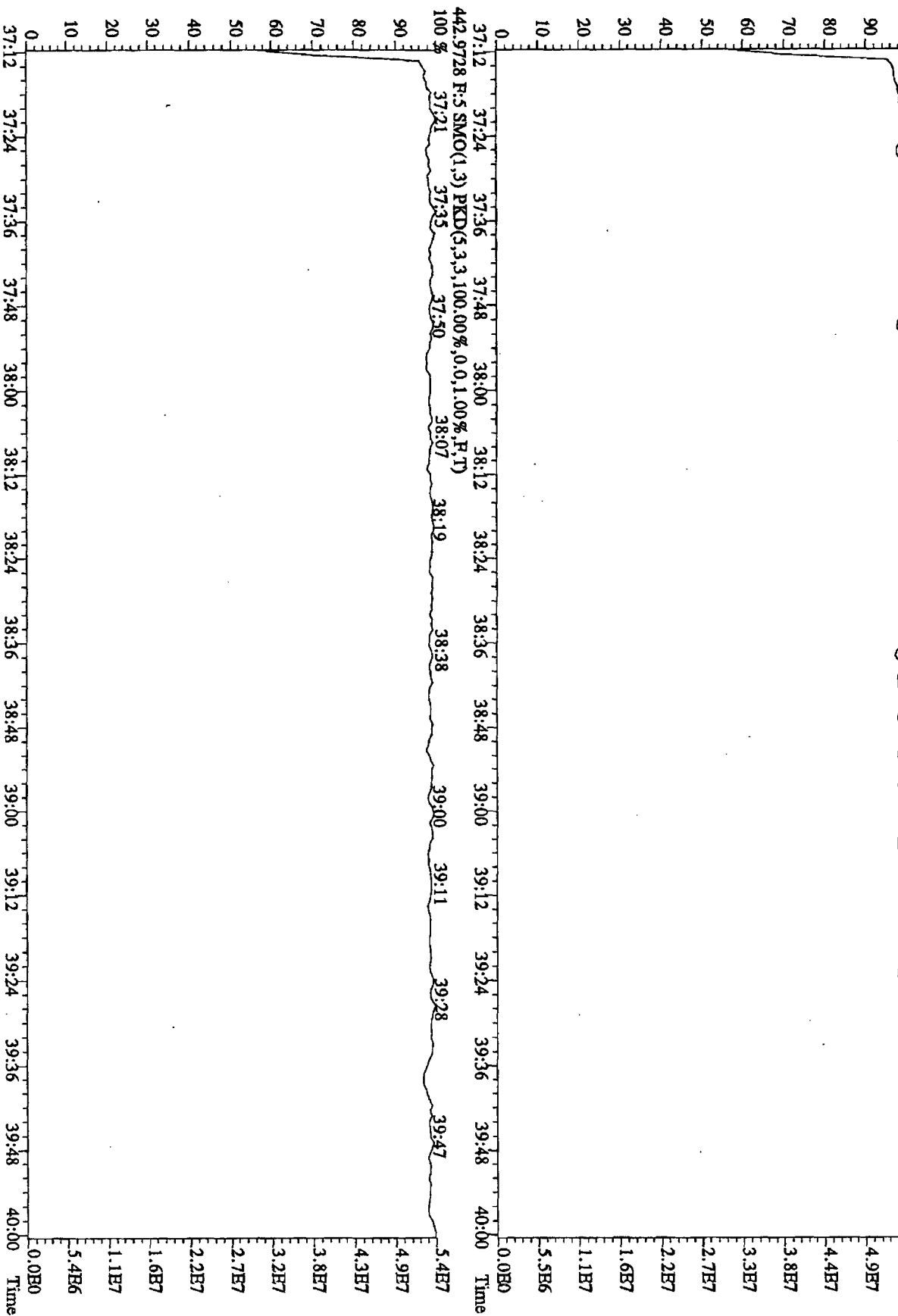


479.7165 F: 4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1920,0,1.00%,F,T)

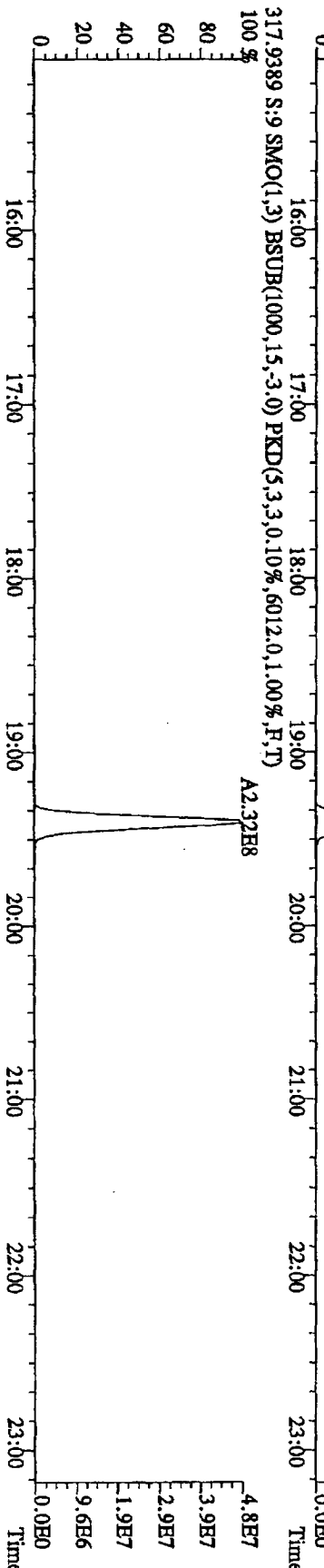
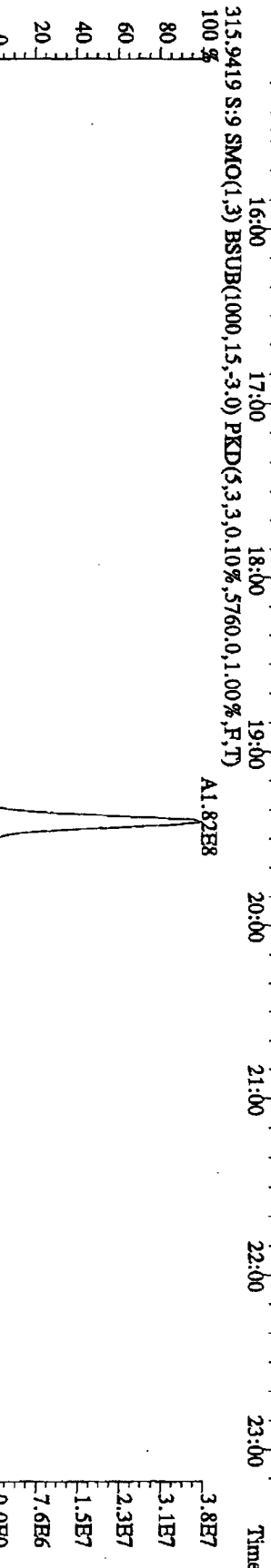
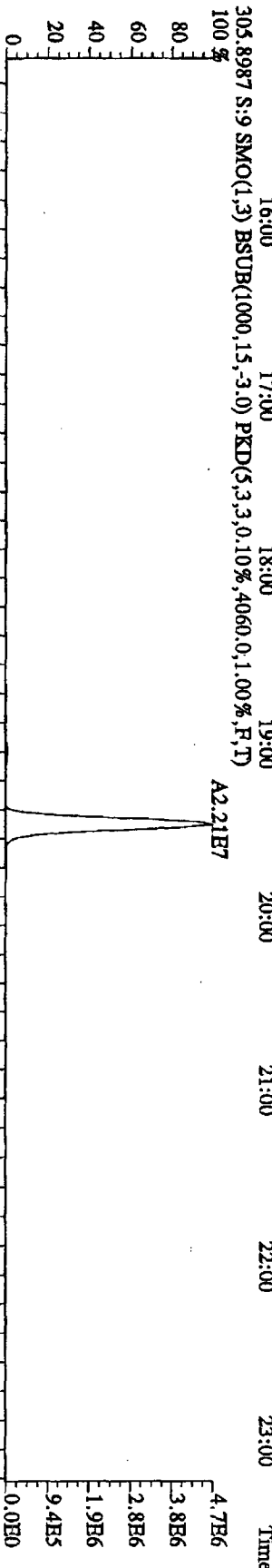
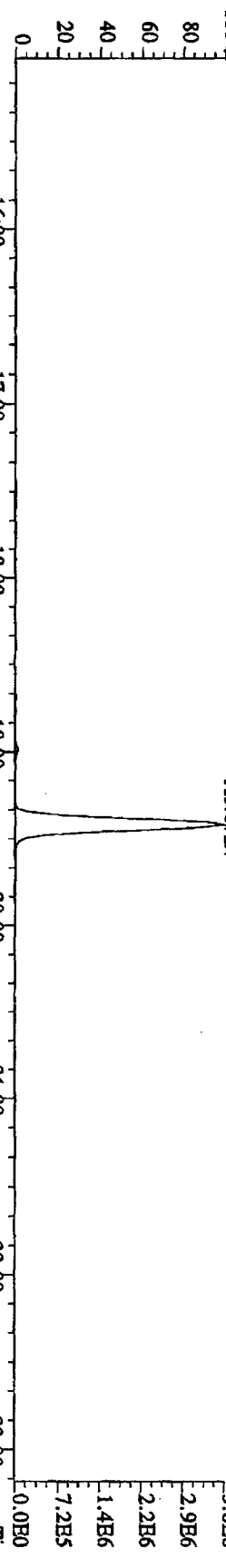


File: 21JL10A4D5 #1-228 Acq: 21-JUL-2010 14:32:55 GC EI+ Voltage SIR Autospec-Ultimate  
 Sample#1 Text: CP0721 :DB-5 GP5M 3732-08 Exp: DIOXINRES

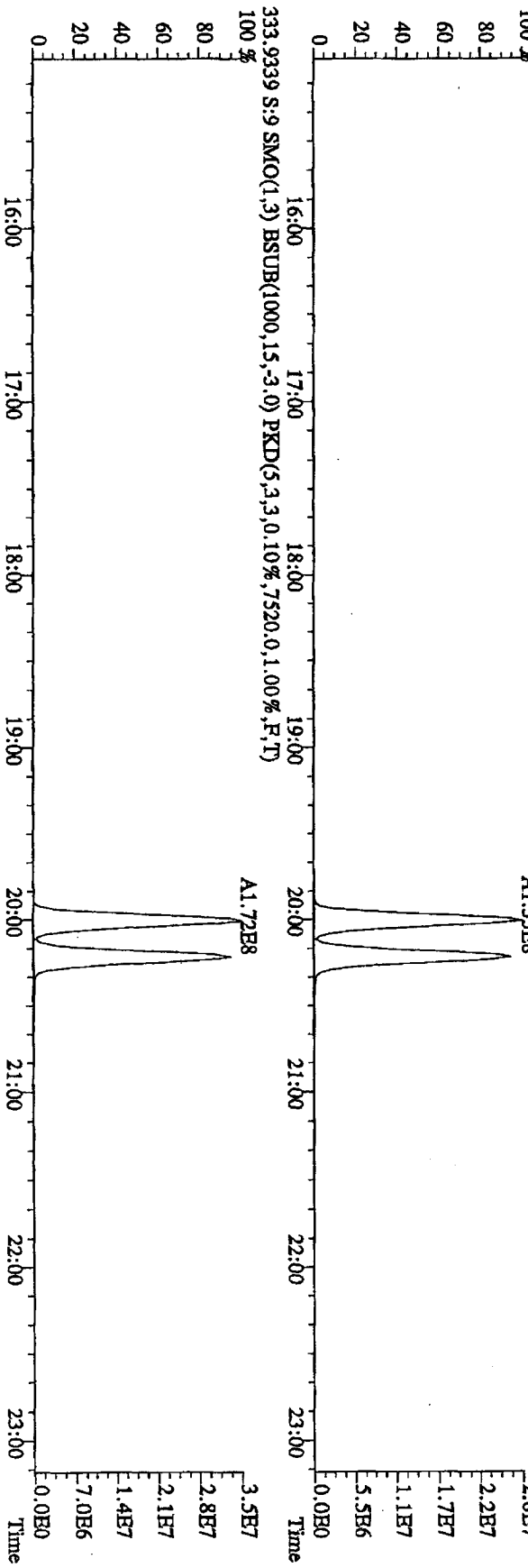
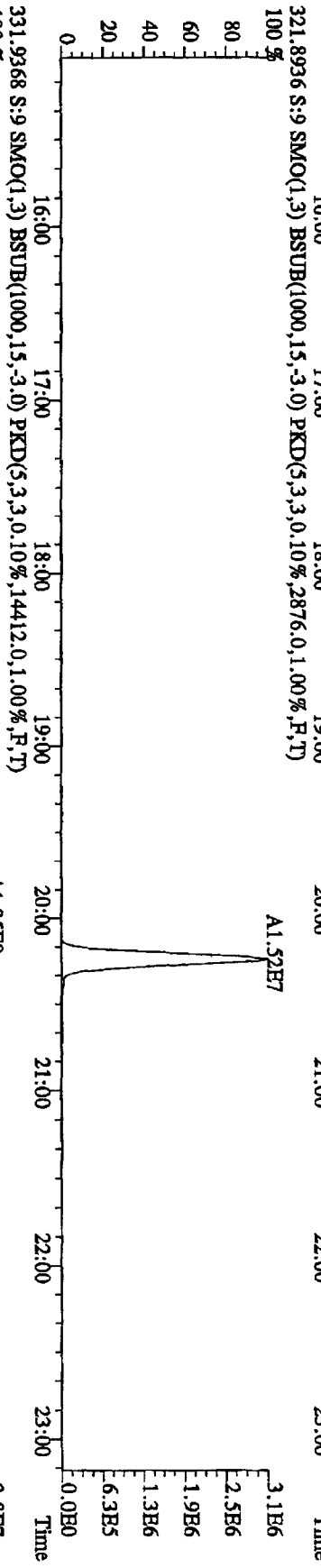
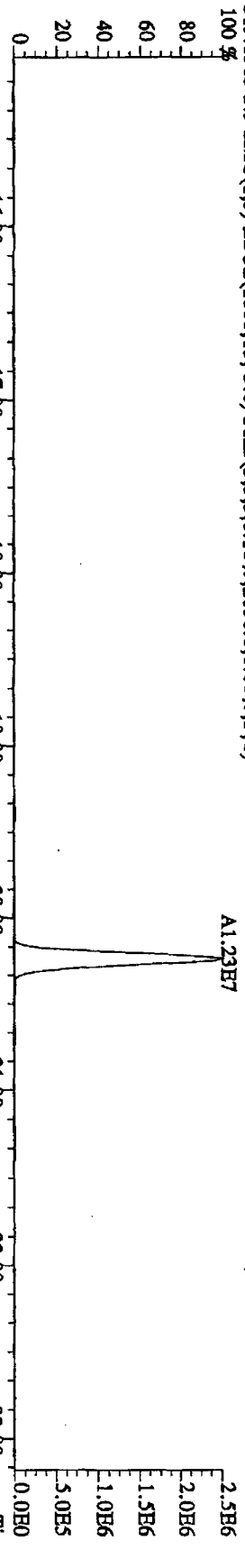
454.9728 F: 5.5 SMO(1.3) PKD(5.3, 3.100, 0.00%, 0.0, 1.00%, F, T)  
 100 % 37:21 37:31 37:42 37:53 38:13 38:25 38:33



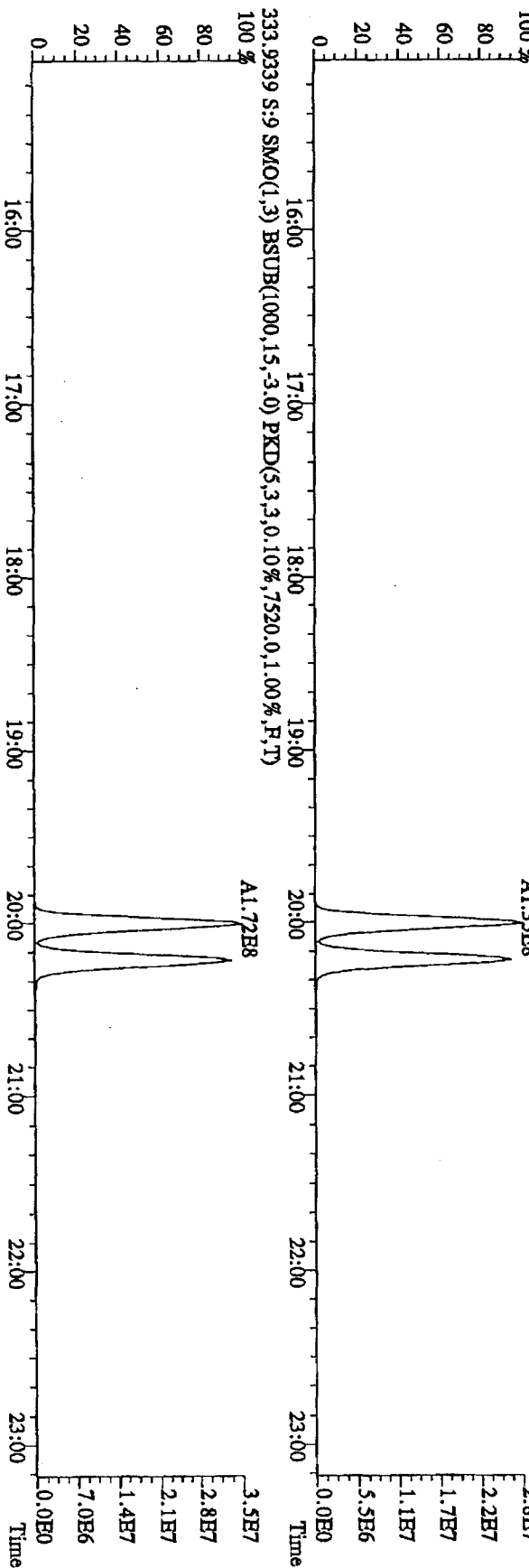
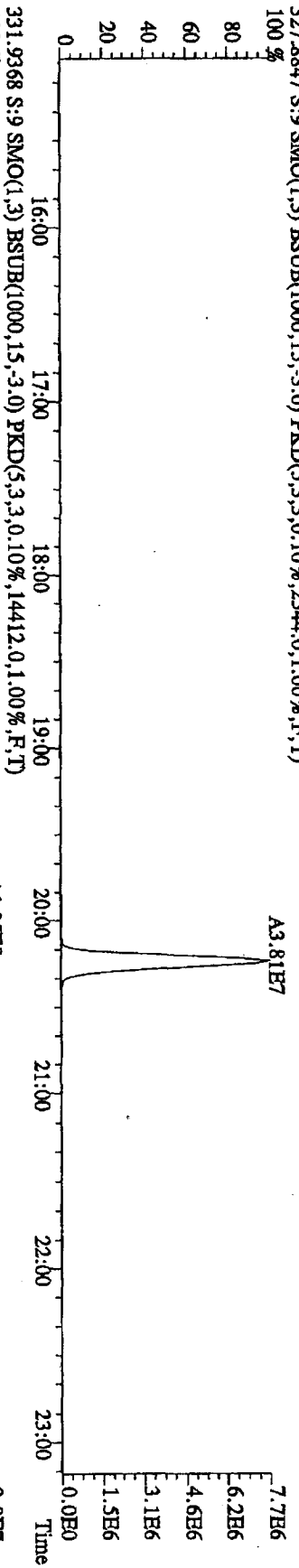
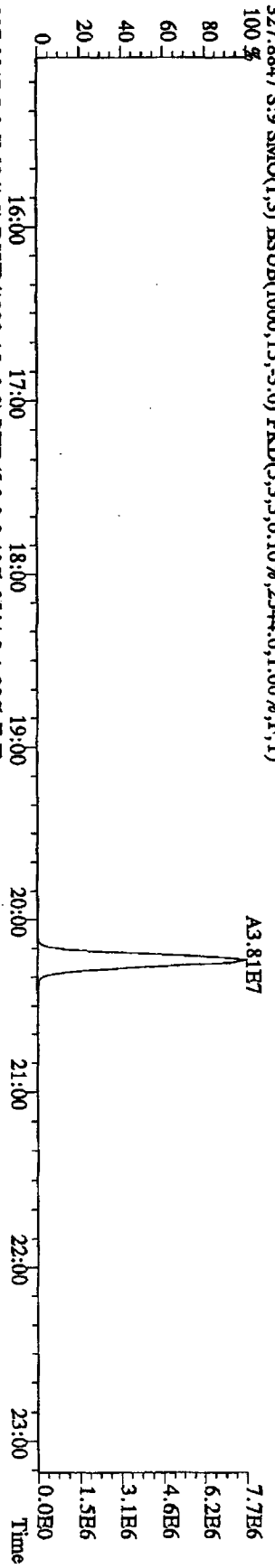
File: 211L1044D5 #1-541 Acq: 21-JUL-2010 20:34:02 GC HI+ Voltage SIR Autospec-UltimaE  
 Sample#9 Text: ST0721F : 2nd Source 10DXN340 Exp: DIOXINRES  
 303,9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2796.0,1.00%,F,T) 100%



File:21JI\_10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC HI + Voltage SIR Autospec-Ultimate  
 Sample#9 Text:ST0721F 2nd Source 10DXN340 Exp:DIOXINRES  
 319.8965 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2156,0,1,00%,F,T)

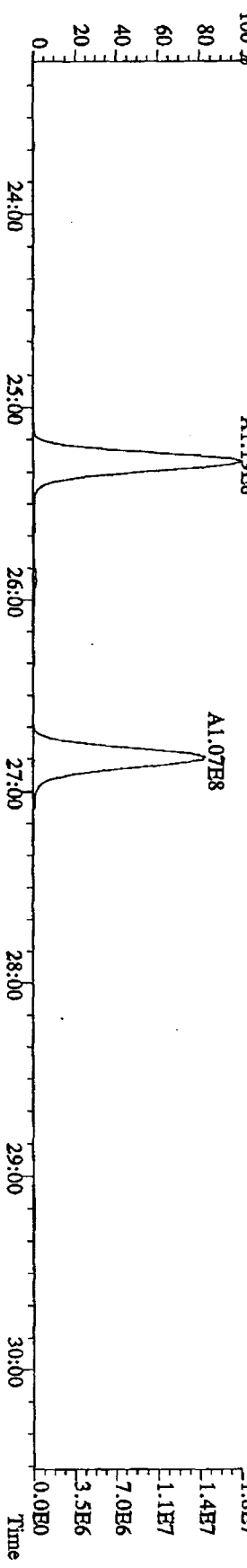
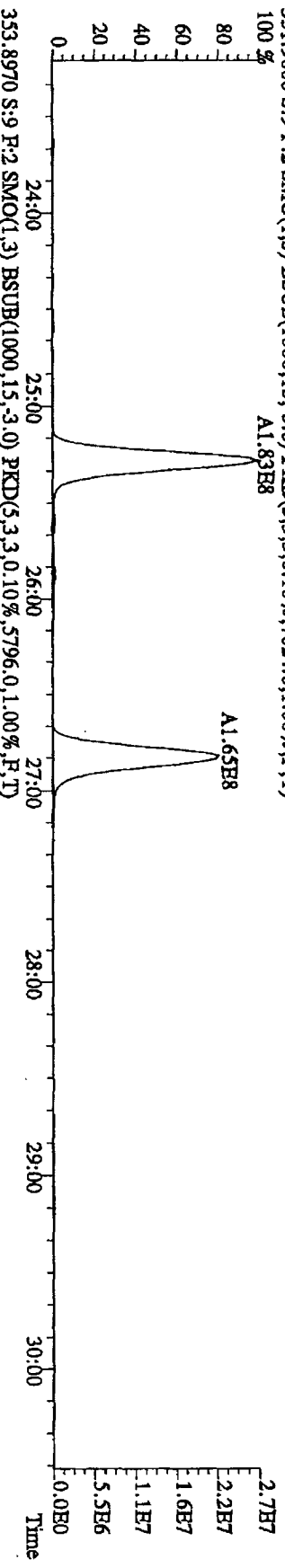
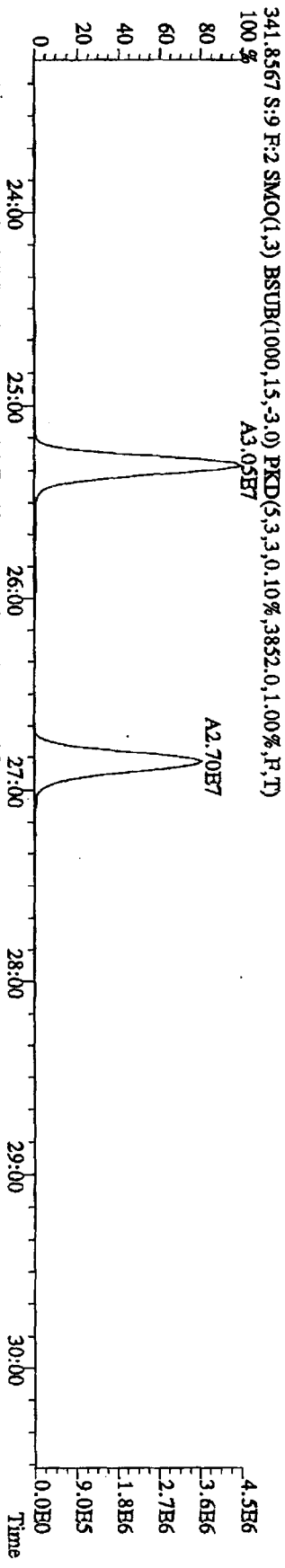
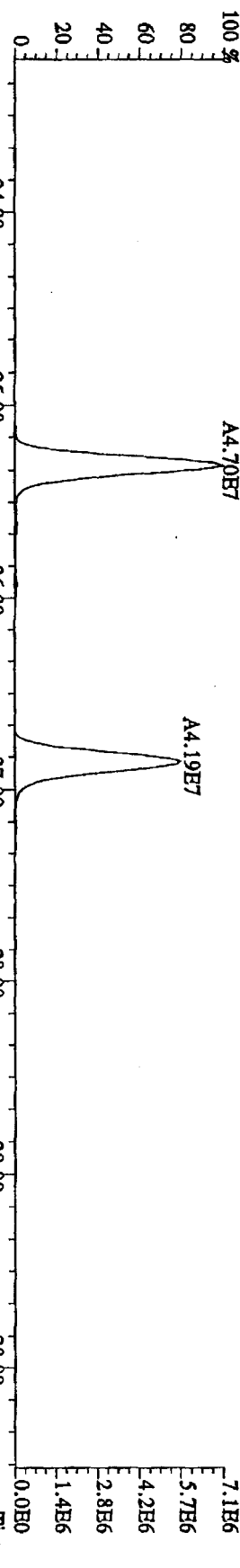


File: 211L10A4D5 #1-541 Acq: 21-JUL-2010 20:34:02 GC EI+ Voltage STR Autospec-UltimaB  
 Sample#9 Text: ST0721P 2nd Source 10DXN340 Exp: DIOXINRES  
 327.8847 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2544,0,1,00%,F,T)  
 100%

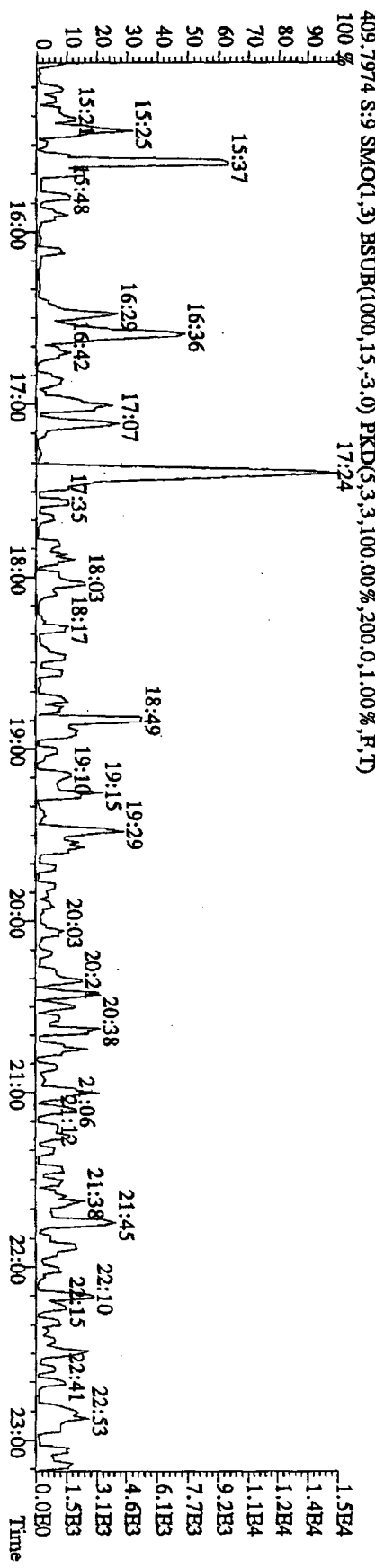
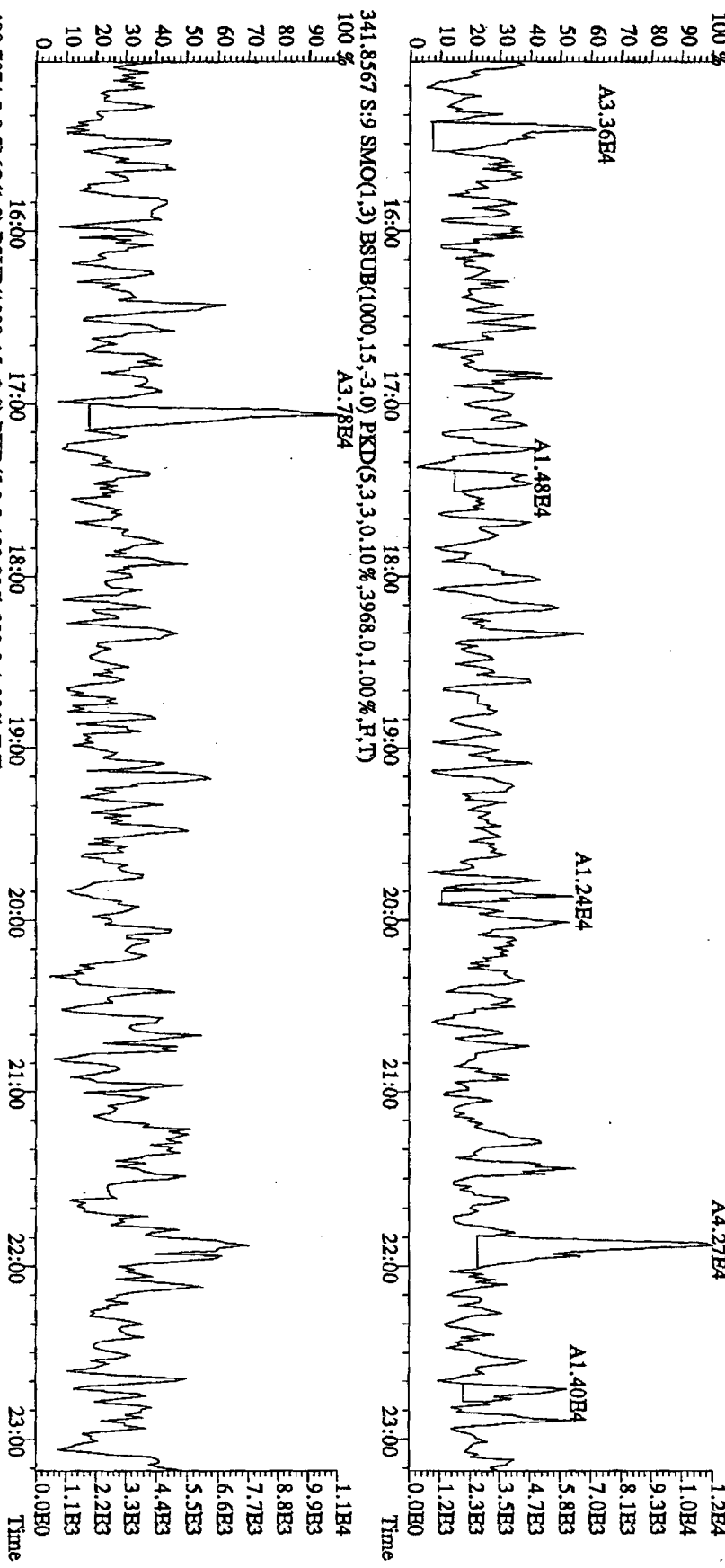




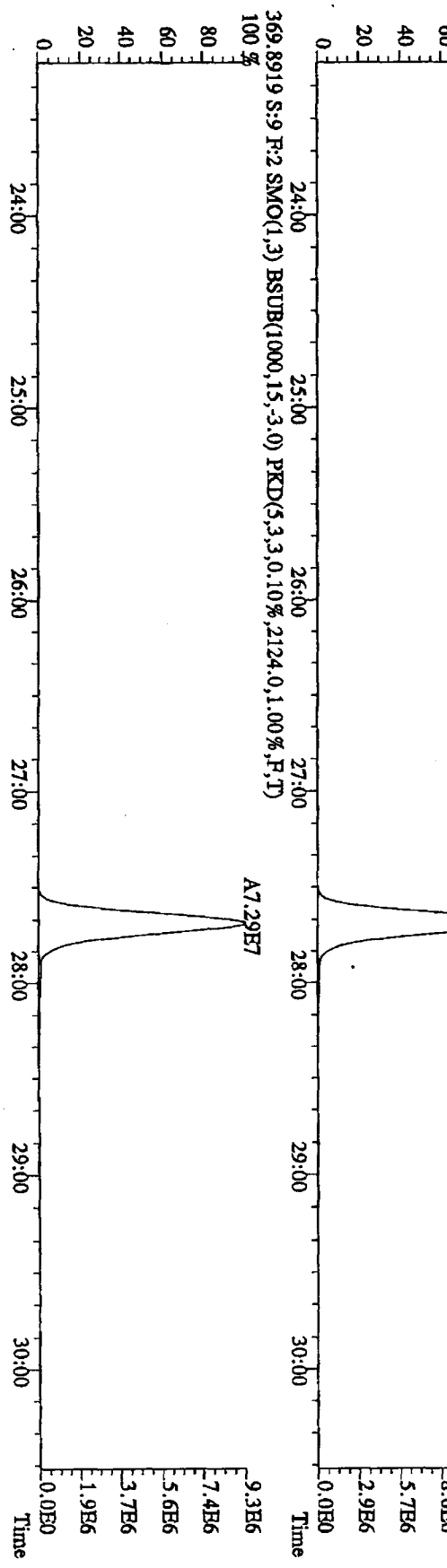
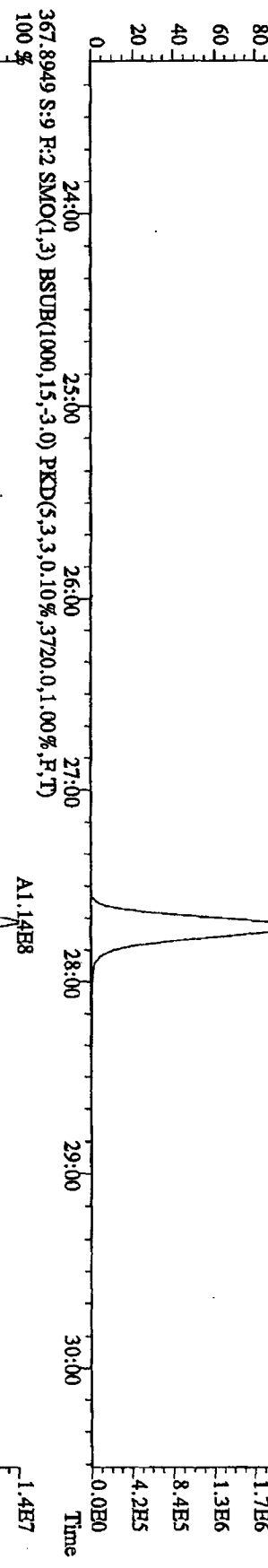
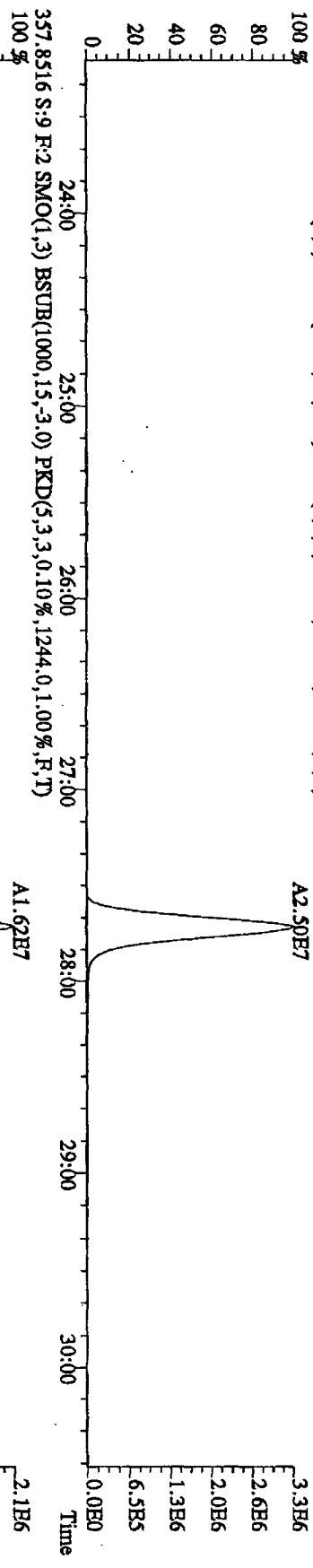
File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 20:34:02 GC EI+ Voltage: 51V Autospec-Ultimate  
 Sample#9 Text: ST0721F 2nd Source 10DDXN340 Exp: DIOXINRES  
 339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4500,0,1.00%,F,T)  
 100% A4.70E7



File:21JUL10AAD5 #1-541 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#9 Text:STU721F :2nd Source 10DXN340 Exp:DIOXINRES  
 339.8597 S:9 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3720,0.1,0.0%,F,T)

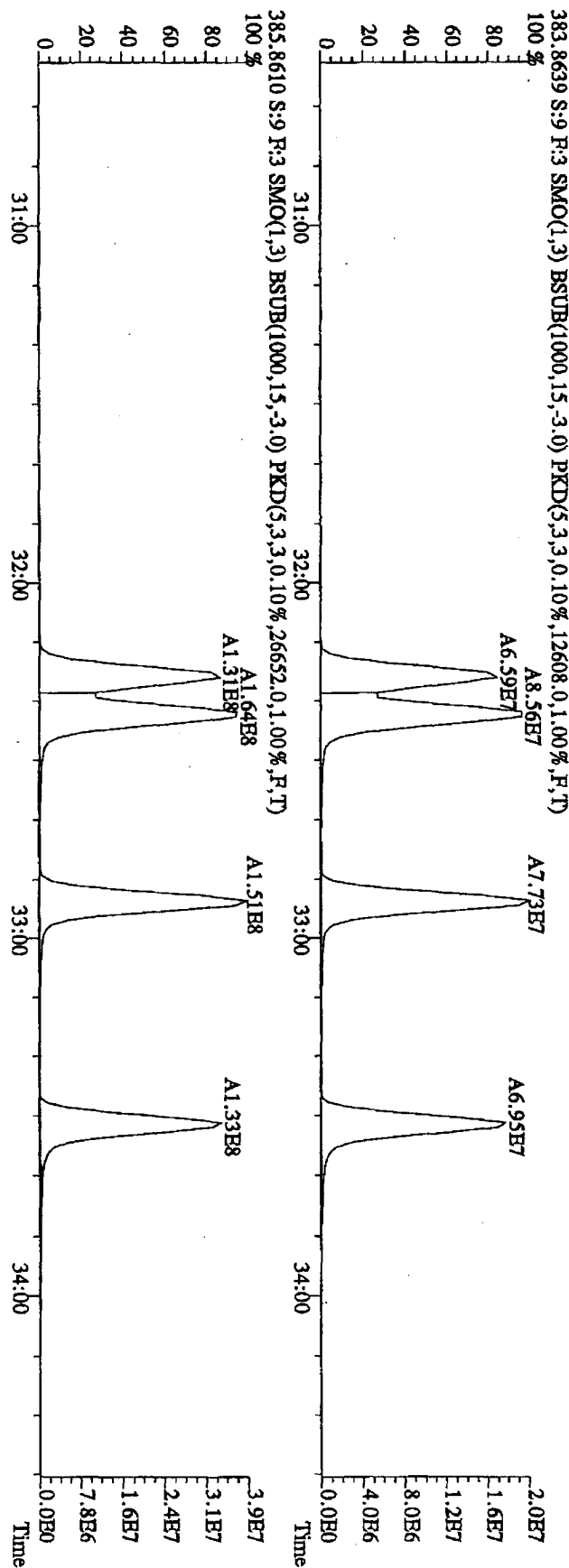
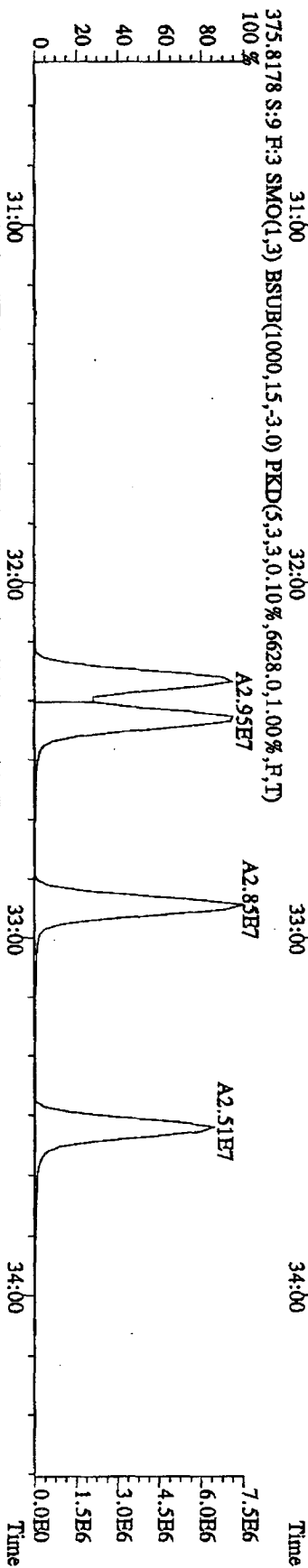
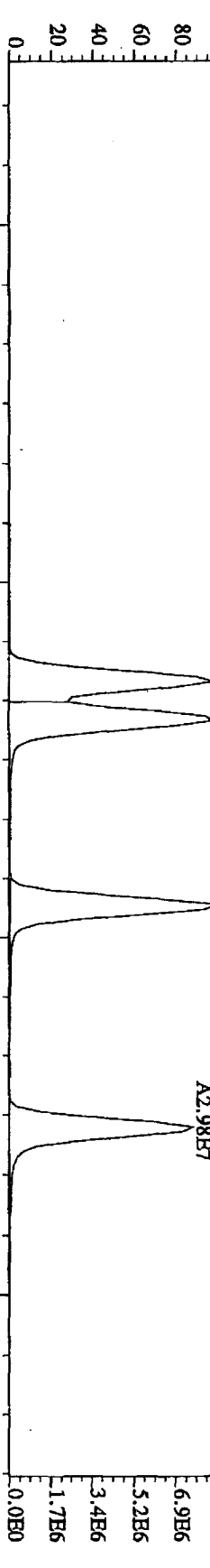


File: 211L10A4D5 #1-470 Acq: 21-JUL-2010 20:34:02 GC EI + Voltage SIR Autospec-UltimaB  
 Sample#9 Text: ST0721F : 2nd Source 10DXN340 Exp: DIOXINRES  
 355.8546 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3228,0.1,00%,F,T)

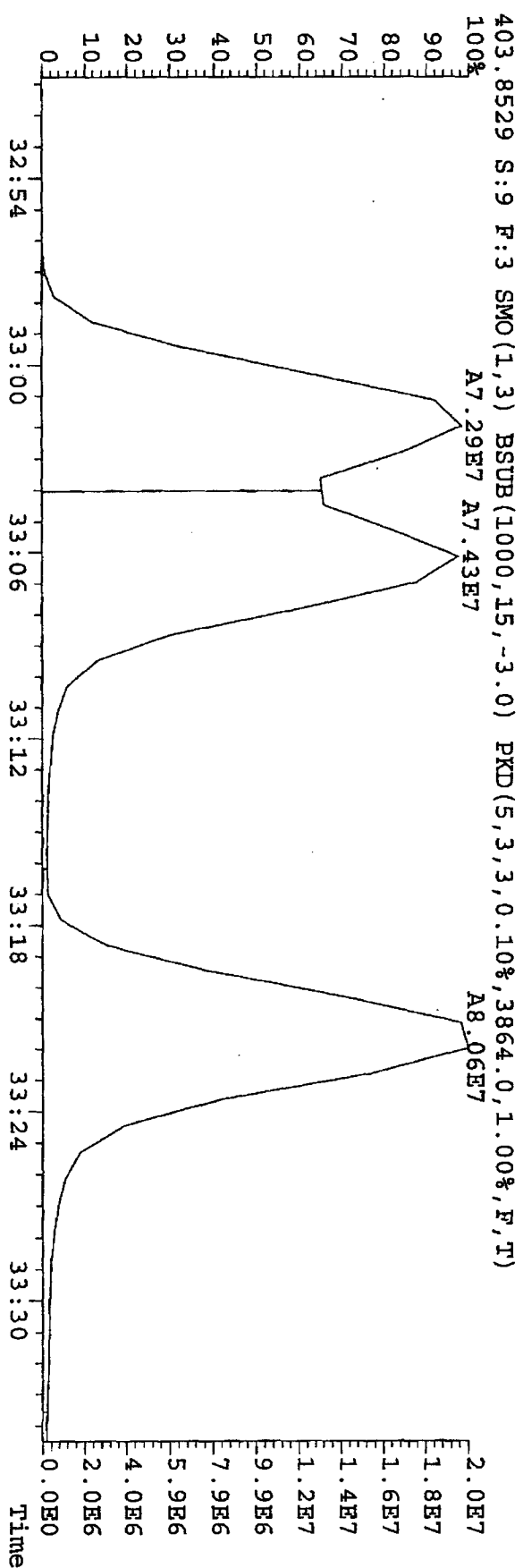
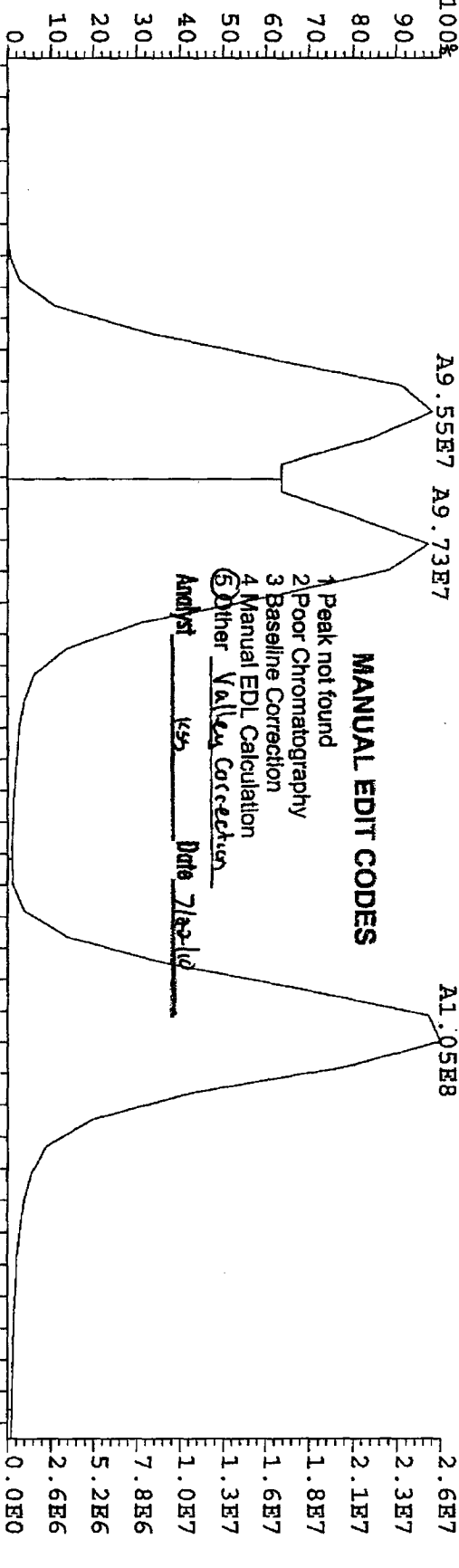


File:211L10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-Ultimate

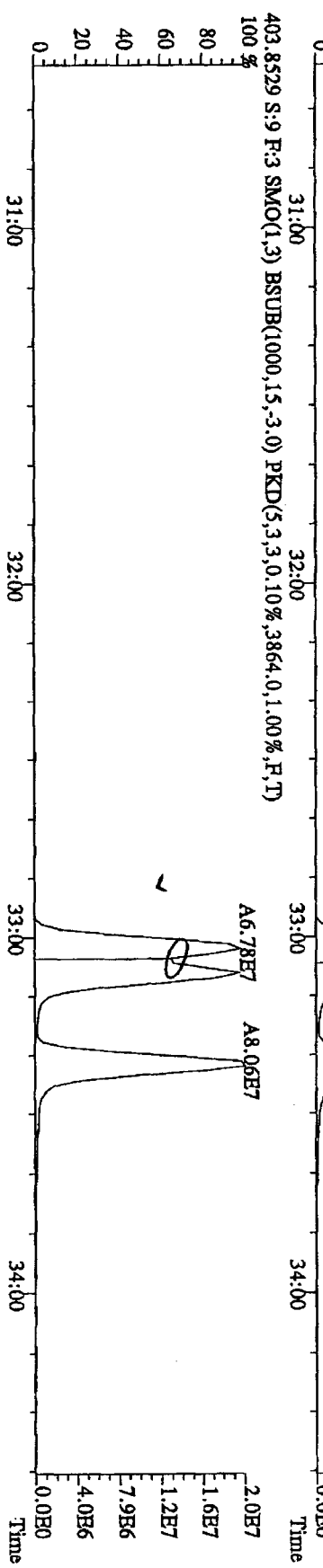
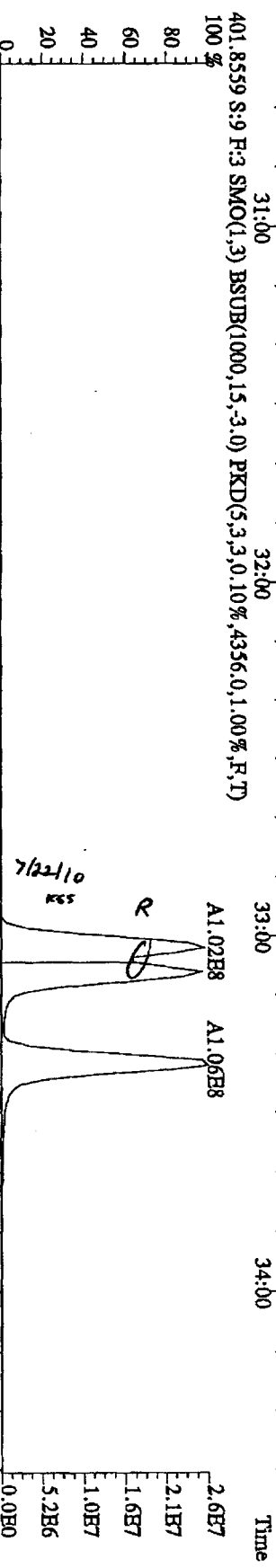
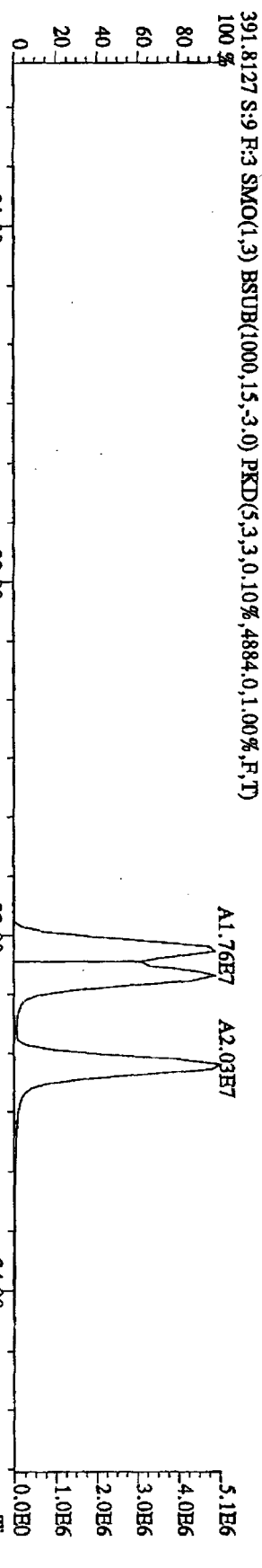
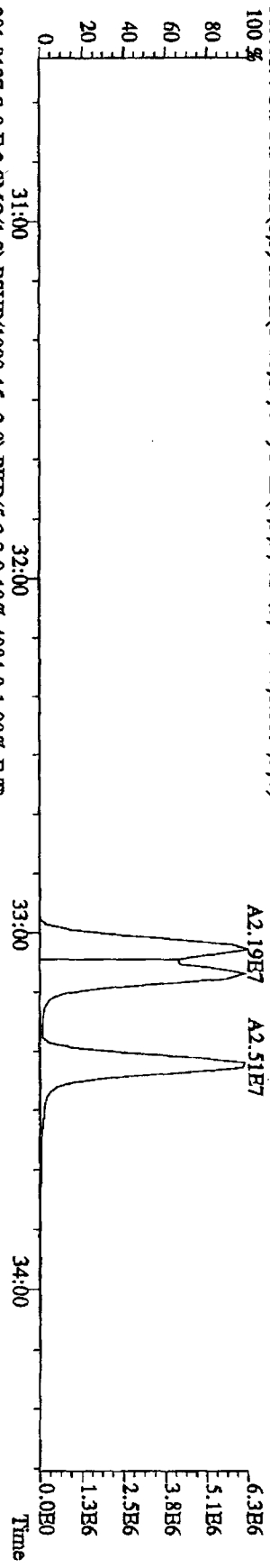
Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES



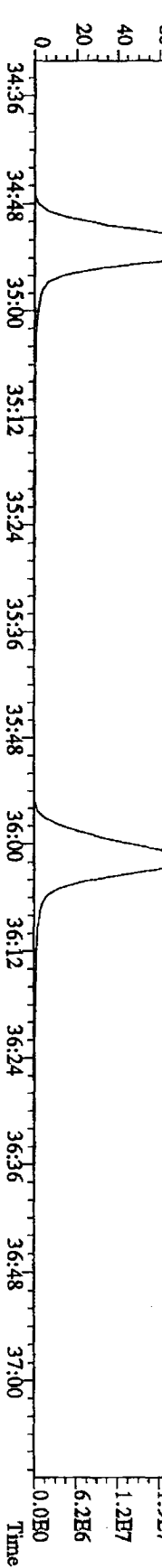
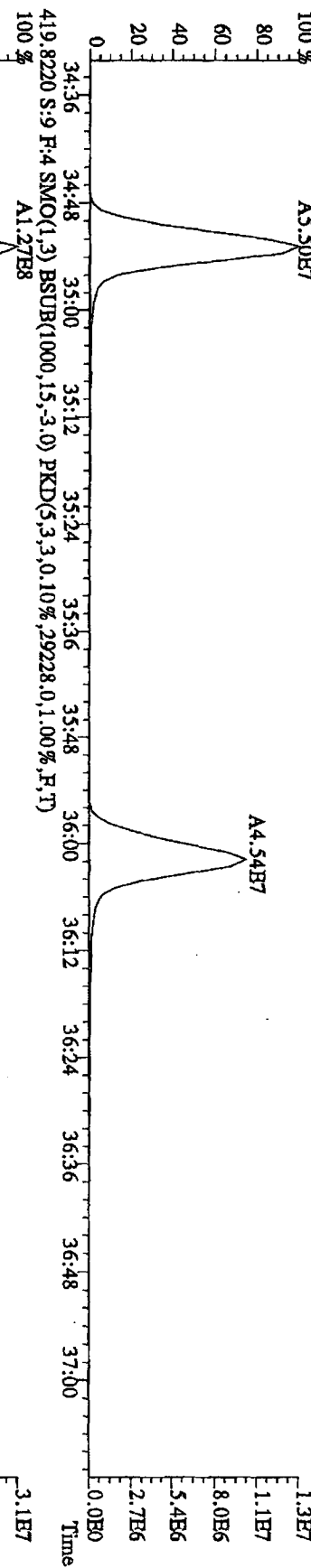
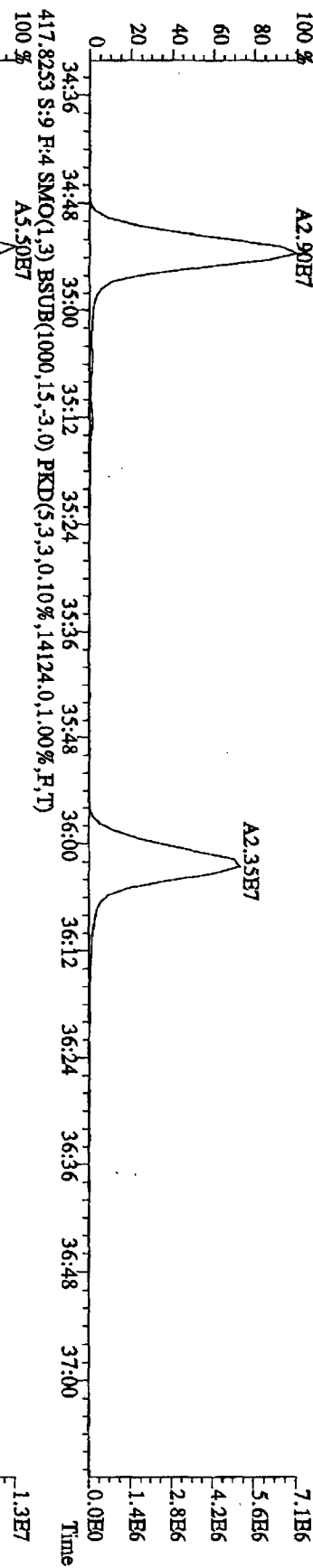
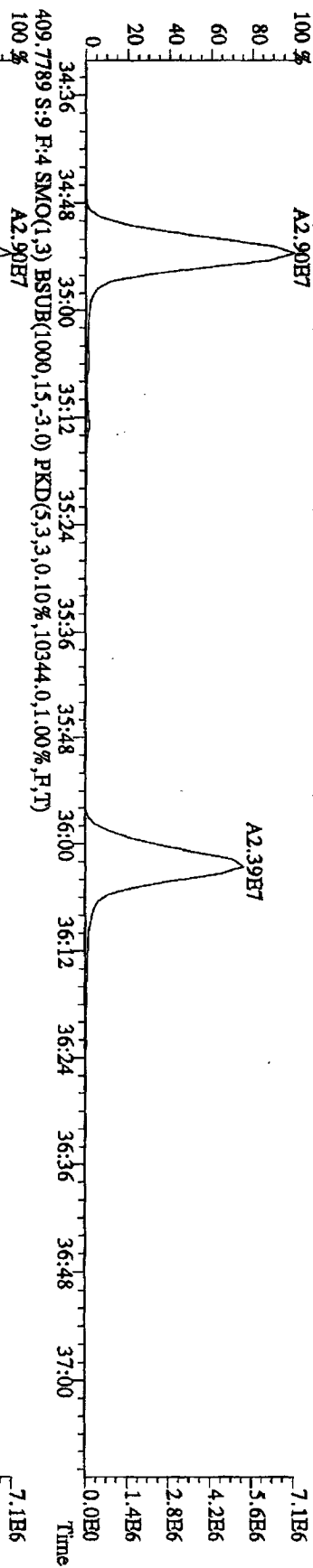
File: 21JUL10A4D5 #1-286 Acq: 21-JUL-2010 20:34:02 GC FI+ Voltage SIR Autospec-UltimaE  
 Sample#9 Text: ST0721F : 2nd Source 10DXN340 Exp: DIOXINRES  
 401.8559 S: 9 F: 3 SMO(1, 3) BSUB(1000, 15, -3.0) PKD(5, 3, 3, 0.10%, 4356.0, 1.00%, F, T)  
 100% A9.55E7 A9.73E7 A1.05E8



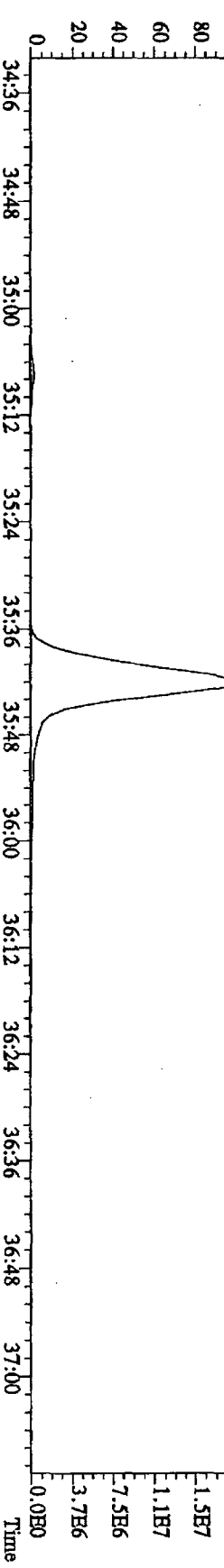
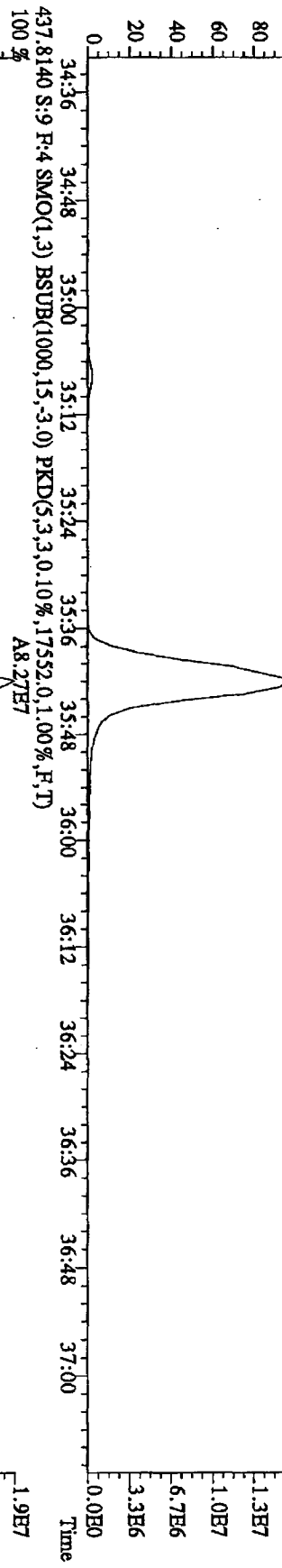
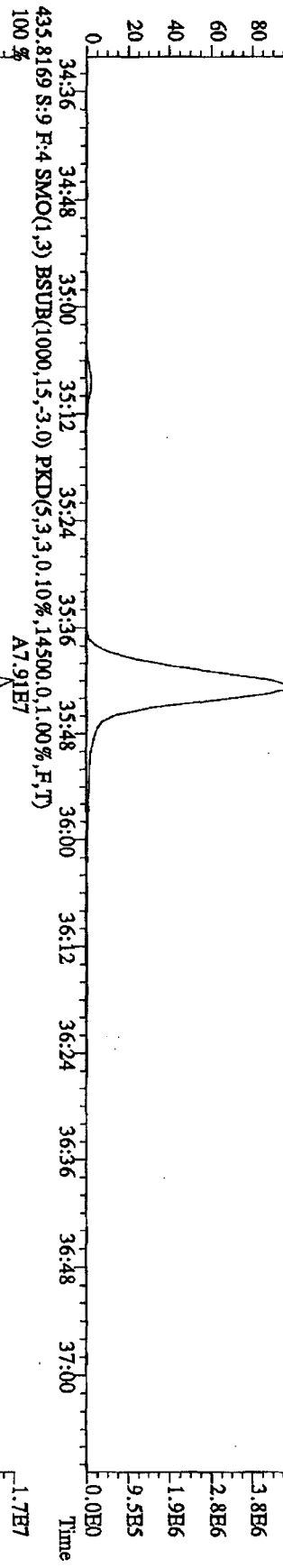
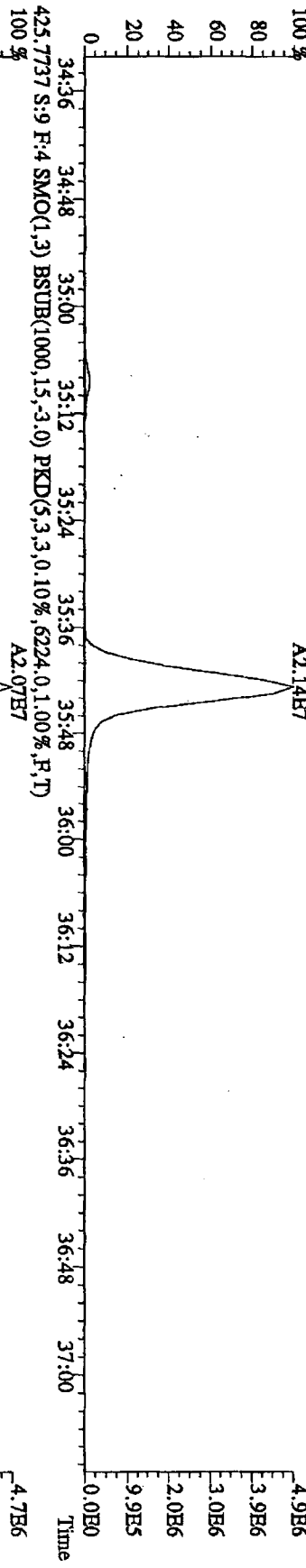
File:21JL10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES  
 389.8157 S:9 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3468,0,1,00%,F,T)  
 100%



File:21JUL10A4D5 #1-201 Acq:21-JUL-2010 20:34:02 GC EI+ Voltage STR Autospec-UltimaB  
 Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES  
 407.7818 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6948,0,1,00%,F,T)  
 100 % A2.90E7

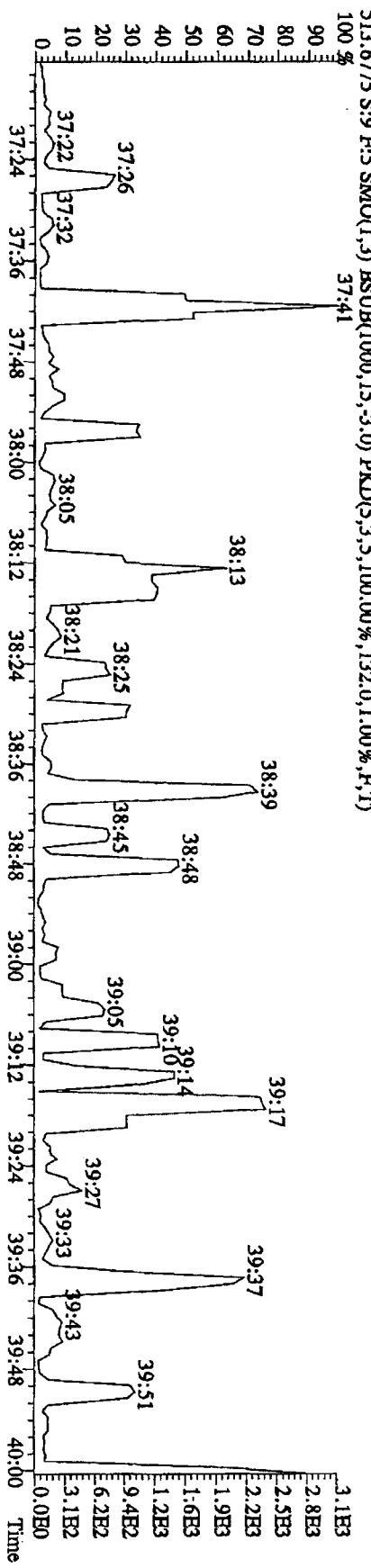
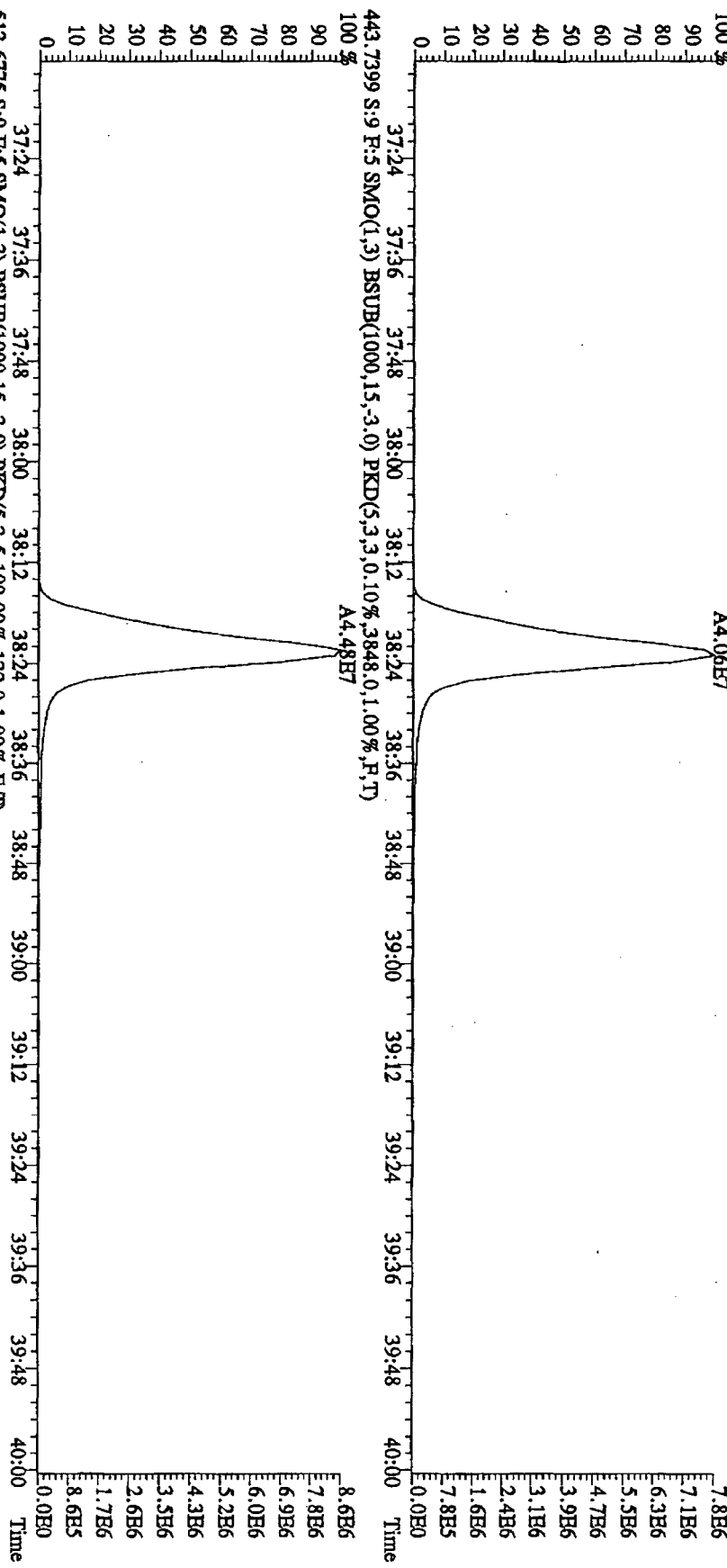


File:21JUL10AA4D5 #1-201 Acq:21-JUL-2010 20:34:02 GC HI + Voltage SIR Autospec-Ultimate  
 Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES  
 423.7737 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.5152,0,1.00%,F,T)

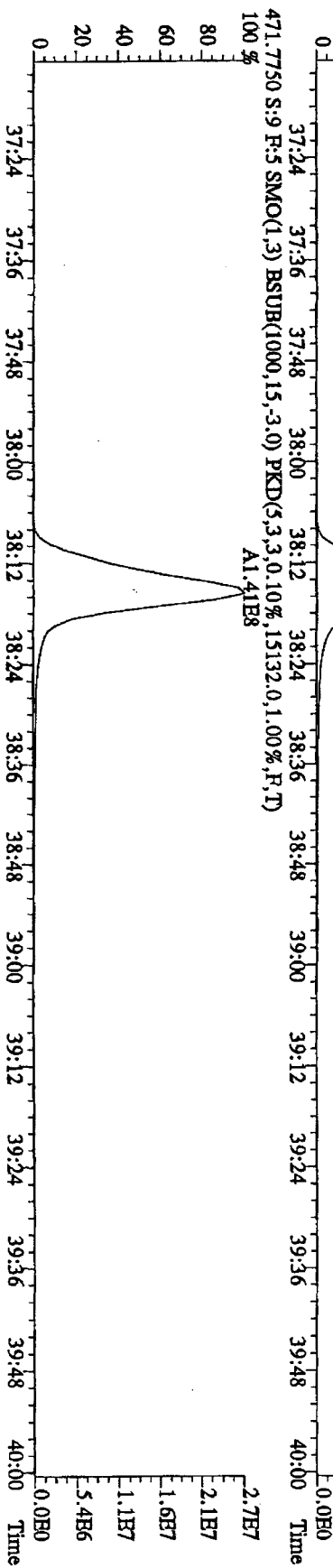
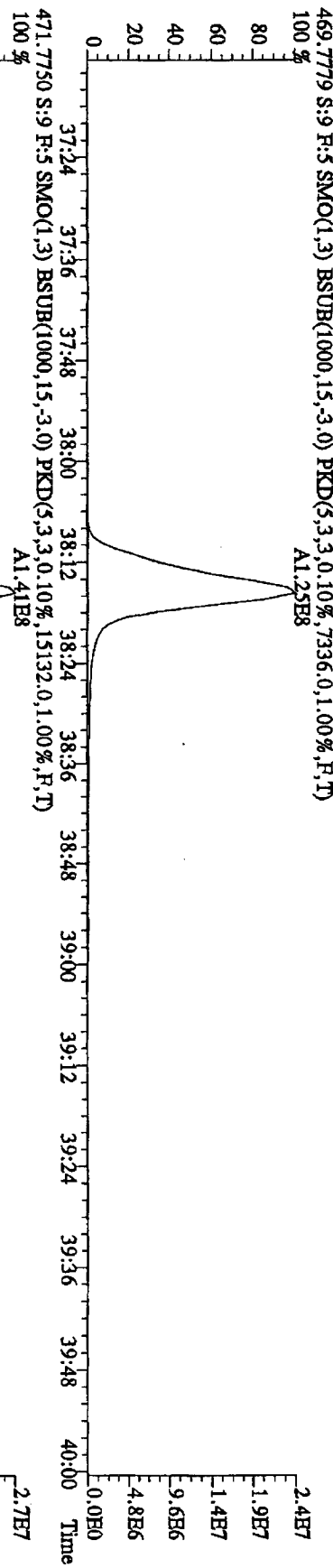
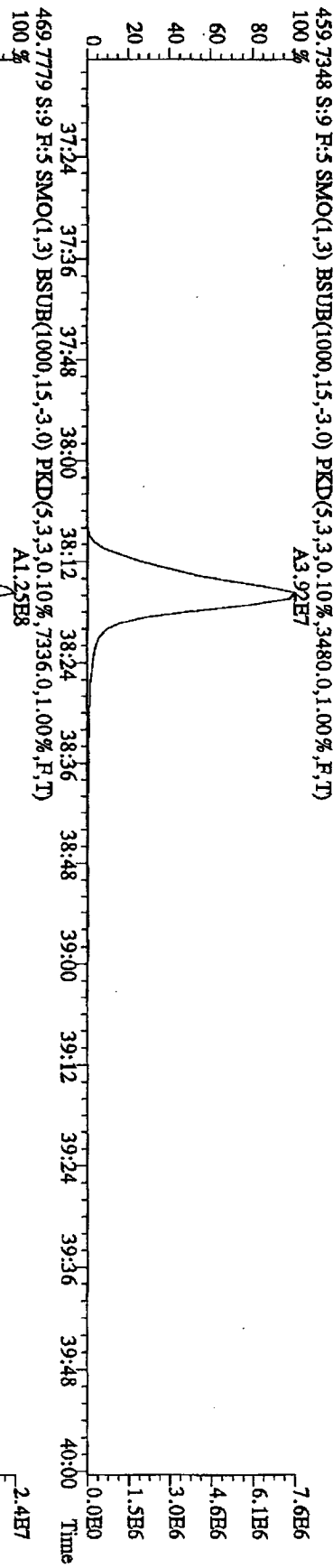
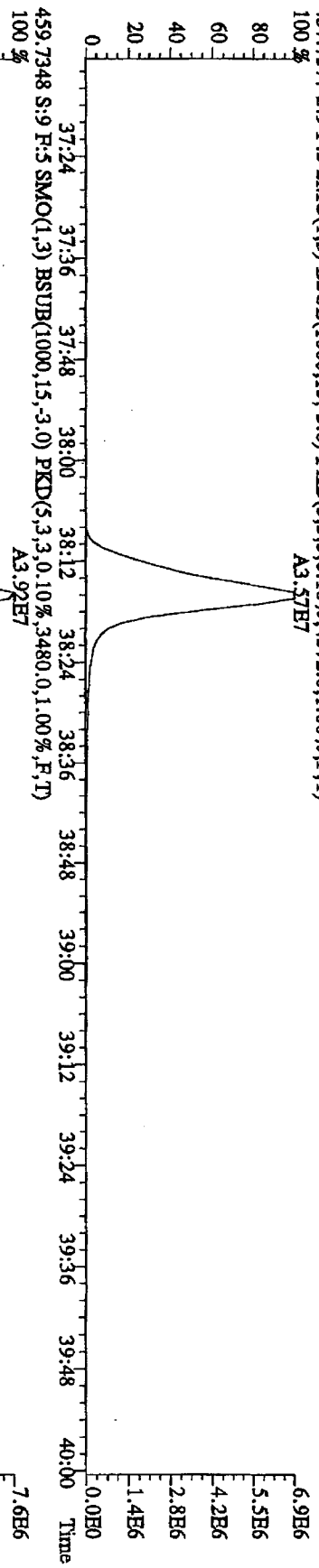




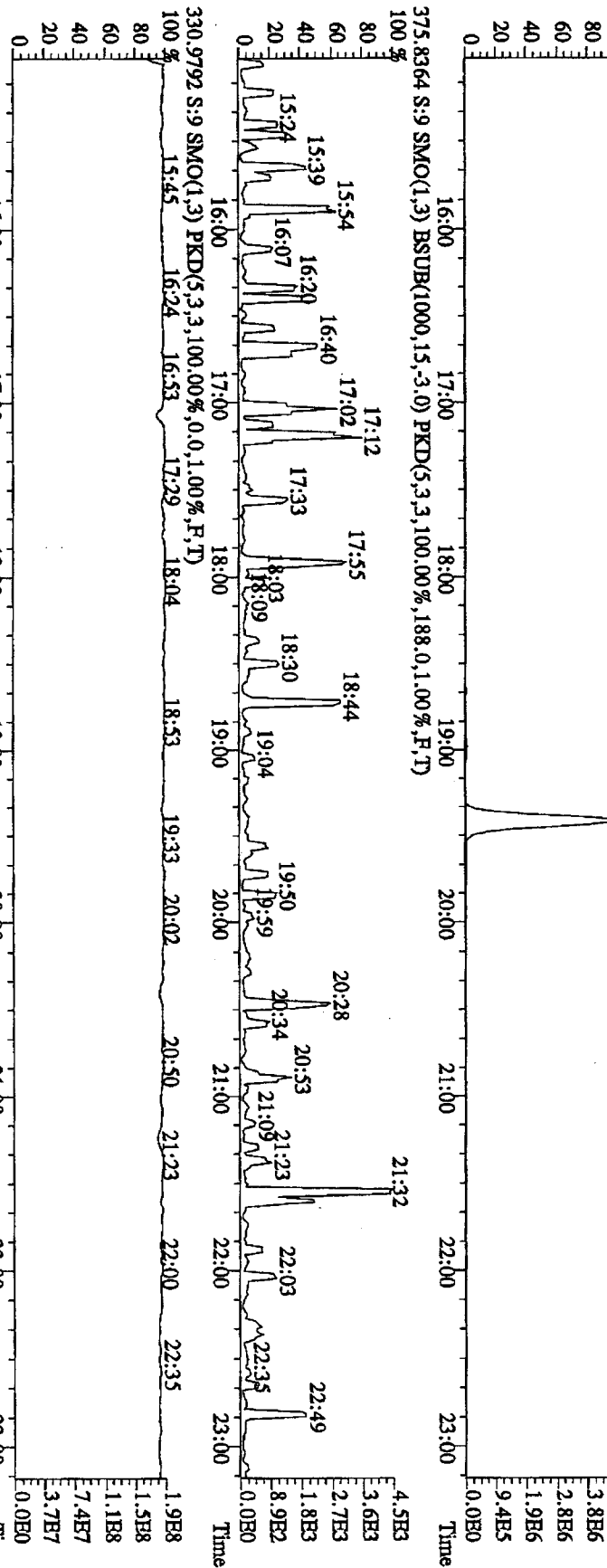
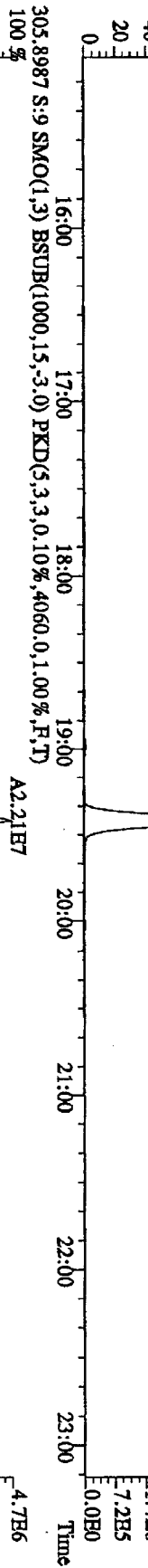
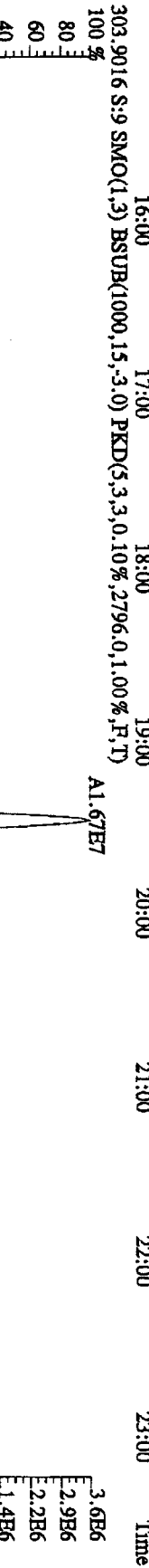
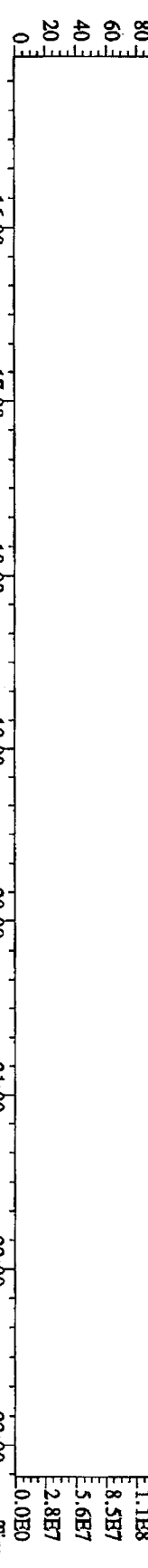
File: 211L10A4D5 #1-227 Acq: 21-JUL-2010 20:34:02 GC HI + Voltage SIR Autospec-UltimaB  
 Sample#9 Text: ST0721F 2nd Source 10DXN340 Exp: DIOXINRES  
 441.7428 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4172.0,1.00%,F,T)  
 A4.06E7



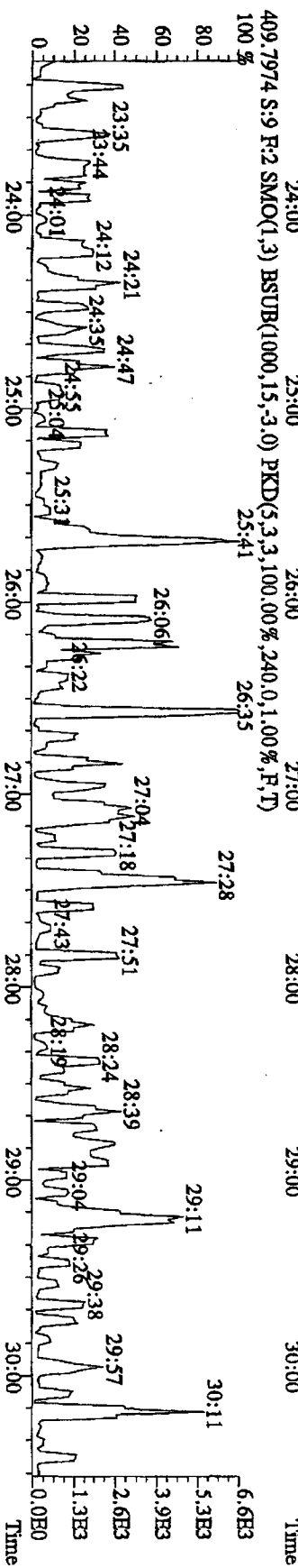
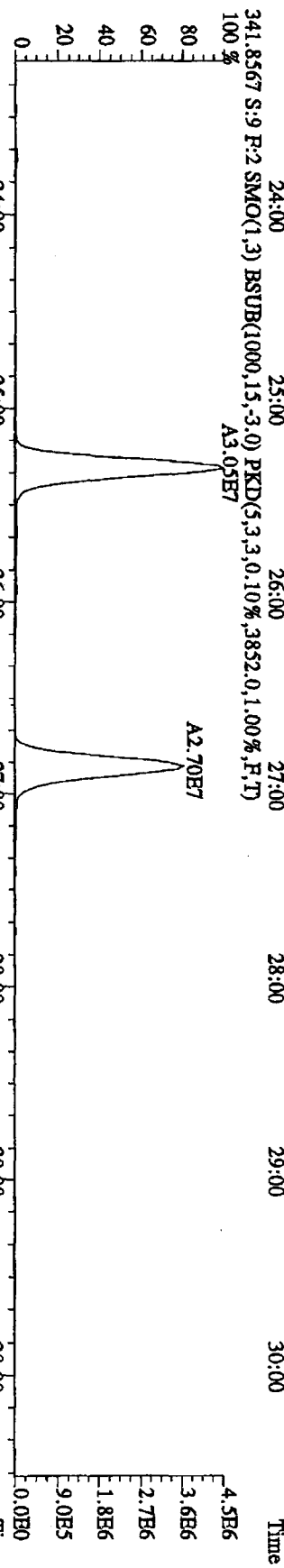
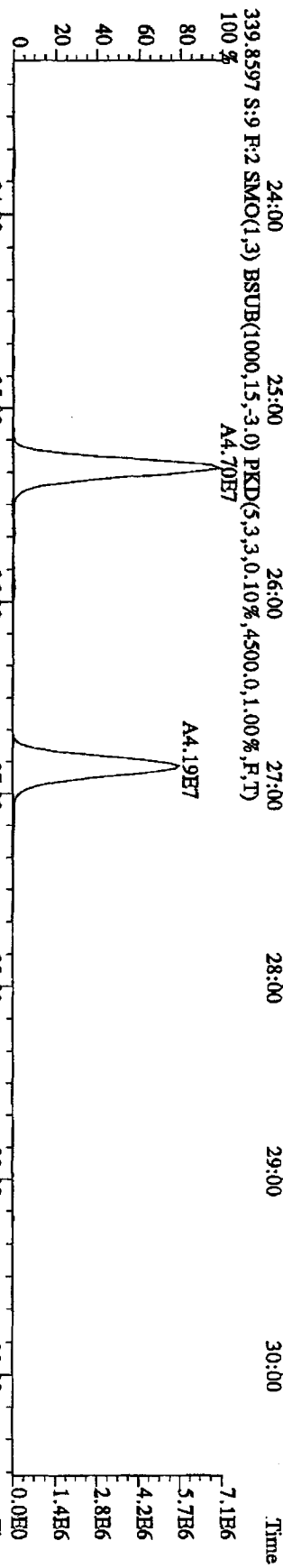
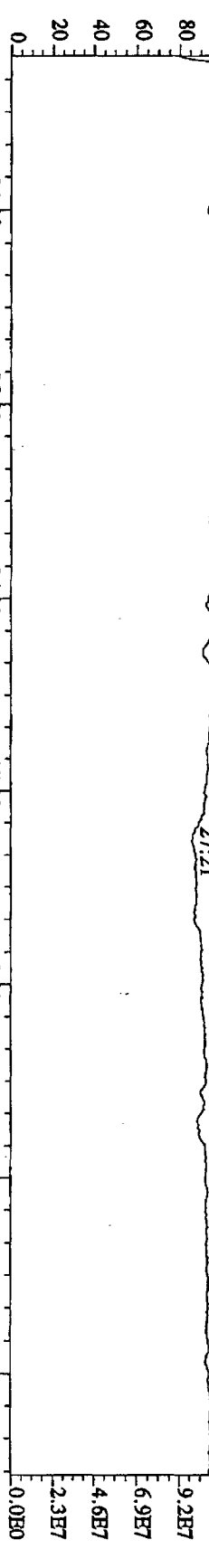
File:211L10A4D5 #1-227 Acq:21-JUL-2010 20:34:02 GC EI + Voltage SIR Autospec-Ultimate  
 Sample#9 Text:ST0721F :2nd Source 10DXN340 Exp:DIOXINRES  
 457.7377 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4572.0,1.00%,F,T)  
 100 %



File:21JUL10A4D5 #1-541 Acq:21-JUL-2010 20:34:02 GC BI + Voltage SIR Autospec-UltimaB  
 Sample#9 Tex:ST0721P :2nd Source 10DXN340 Exp:DIOXINRES  
 292.9825 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)  
 100% 15:14 15:44 16:13 17:12 18:12 18:47 19:43 20:50 21:28 22:48

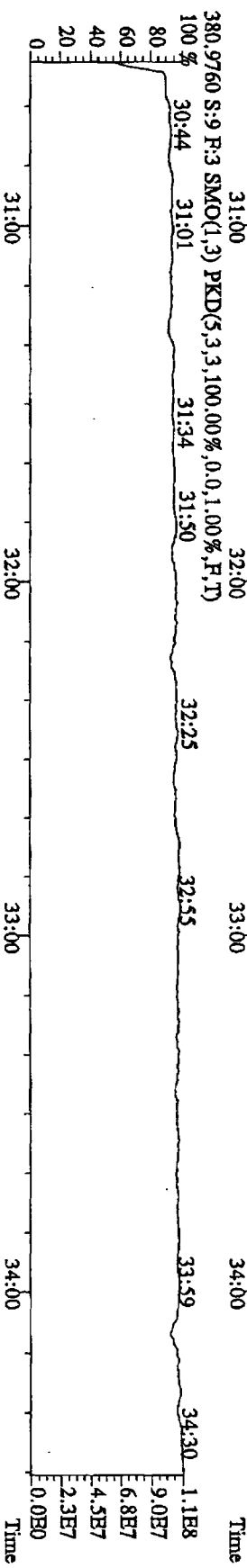
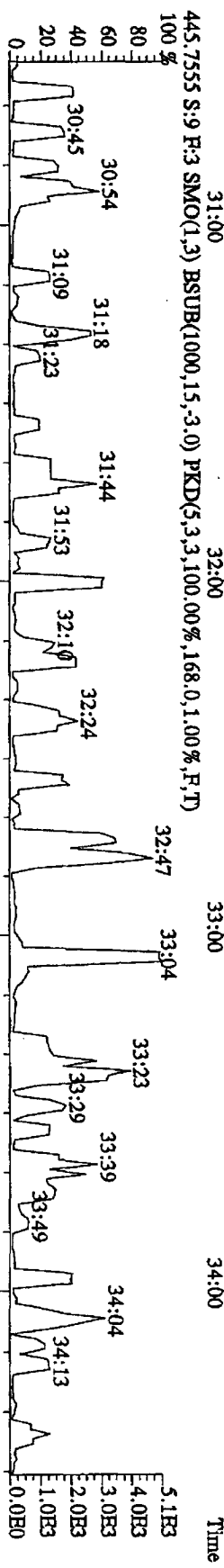
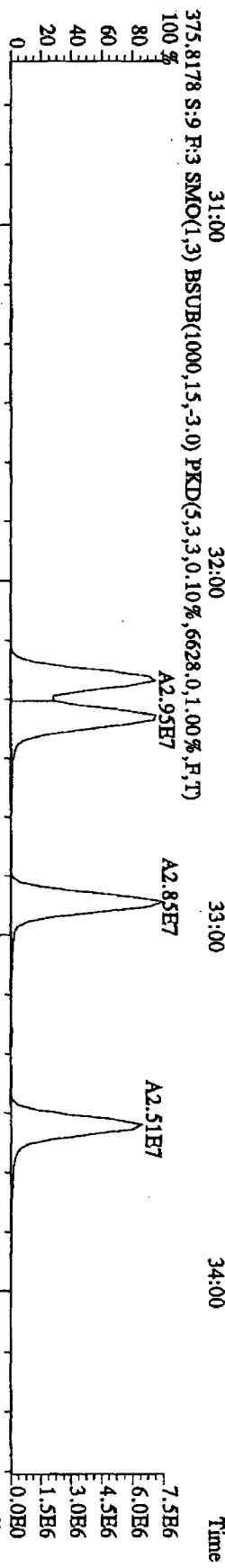
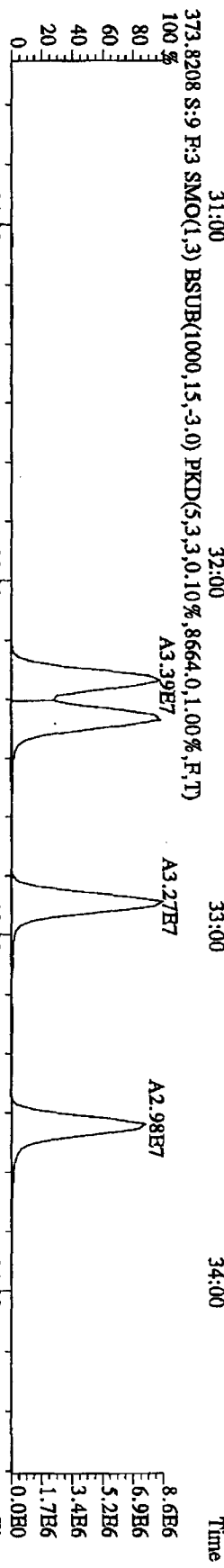
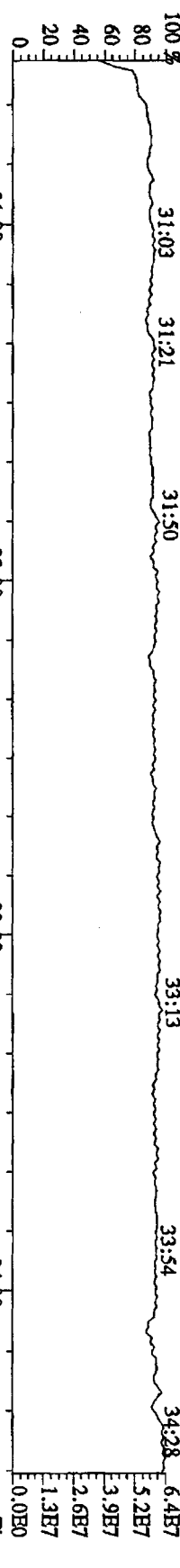


File: 21JUL10A4D5 #1-470 Acq: 21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaE  
 Sample#9 Text: ST0721F : 2nd Source 10DXN340 Exp: DIOXINRES  
 342.9792 S:9 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100% 23:30 24:06 24:39 25:32 25:56 26:32 27:21 28:25 29:05 30:20



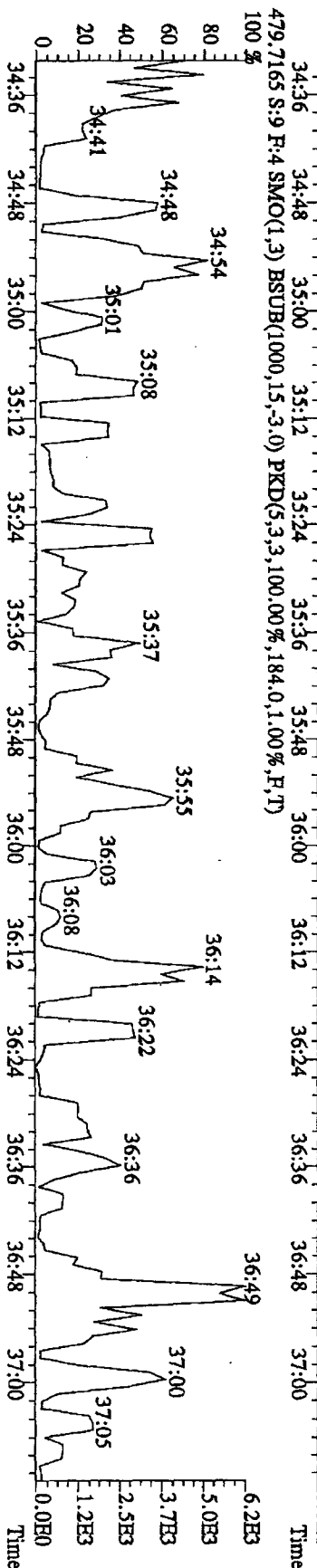
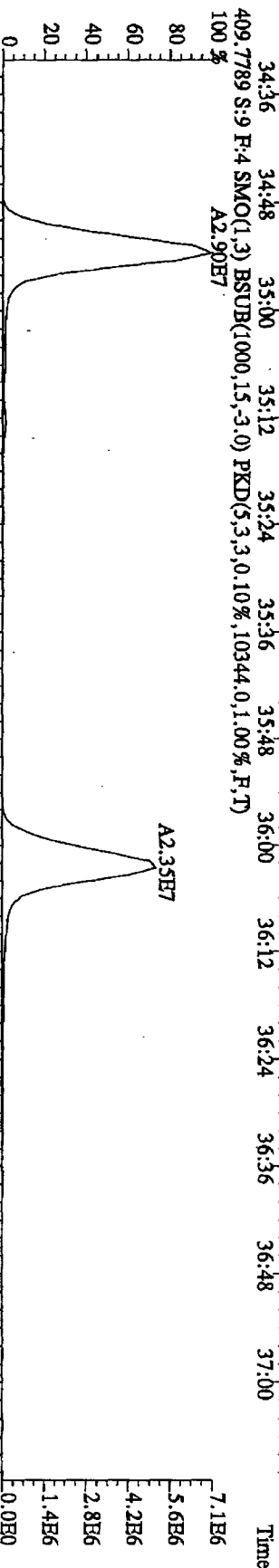
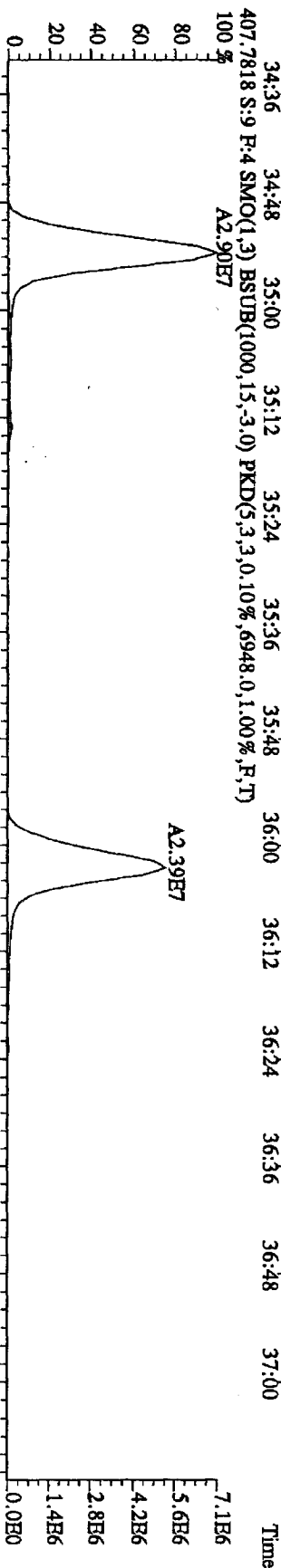
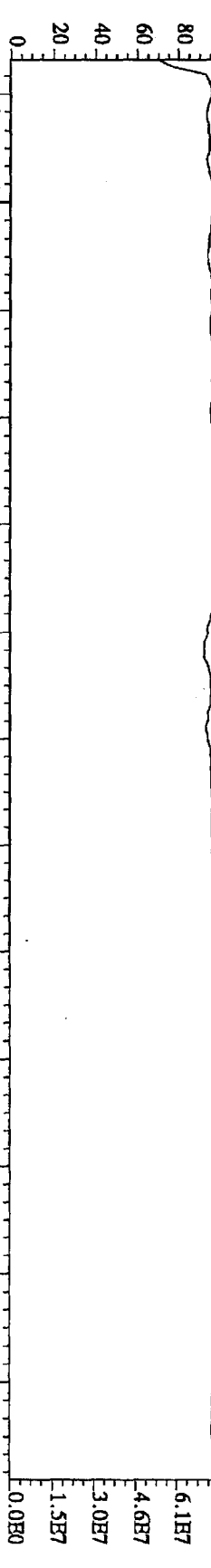
File:2111.10A4D5 #1-286 Acq:21-JUL-2010 20:34:02 GC BF + Voltage SIR Autospec-UltimaB

Sample#9 Text:STU721F :Znd Source 10DXN340 Exp:DIOXINRES

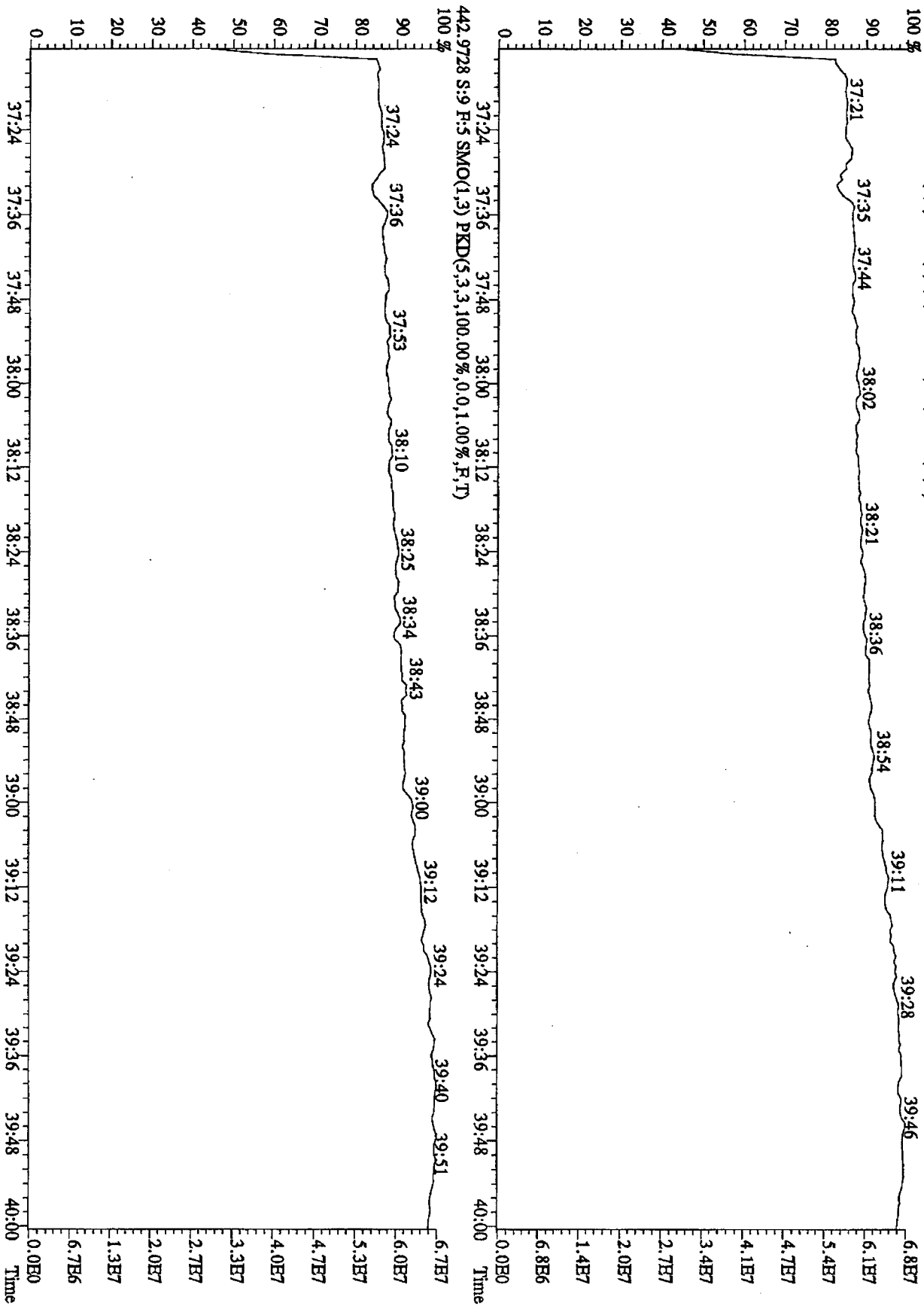


File: 21JL10A4D5 #1-201 Acq: 21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaB

Sample#9 Text: ST0721F 2nd Source 10DXN340 Exp: DIOXINRES



File: 21JUL10A4D5 #1-227 Acq: 21-JUL-2010 20:34:02 GC EI+ Voltage SIR Autospec-UltimaB  
 Sample#9 Text: ST0721F : 2nd Source 10DXN340 Exp: DIOXINRES  
 454: 9728 S:9 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Test America – West Sacramento



THE LEADER IN ENVIRONMENTAL TESTING

Initial Calibration Checklist  
Dioxin Methods

ICAL ID (DB225, DB225AIR)0726105D2R <sup>AK 9/15/10</sup>

Method ID 8290, 1613B, 23, 0023A, T09, Tetras, 8290A, Date Scanned 8-13-10 <sup>RSCM 9/16/10</sup>

Column ID DB225 Instrument ID 5D2

STD ID's ST0726(A, B, C, E) STD Solution 10DXN342, 10DXN335, 10DXN336, 10DXN337

GC Program DB225 Multiplier Setting 750

Analyzed By KSS Date Analyzed 7-26-10

Prepared By KSS, NK Date Prepared 7-26-10

Reviewed By KSS, MG Date Reviewed 7/26/10, 9/15/10

|   |    |    |
|---|----|----|
| Curve summary present?                                  | ✓  | ✓  |
| Hardcopies of chromatograms for CS1-CS5 present?        | ✓  | ✓  |
| Copy of log-file present?                               | ✓  | ✓  |
| Static resolution check present?                        | ✓  | ✓  |
| Target file RT's correct?                               | ✓  | ✓  |
| %RSD within method-specified limits?*                   | ✓  | ✓  |
| Signal-to-noise criteria met?                           | ✓  | ✓  |
| Isotopic ratios within limits?                          | ✓  | ✓  |
| High point free of saturation?                          | ✓  | ✓  |
| Are chromatographic windows correct?                    | ✓  | ✓  |
| Manual reintegration's checked and hardcopies included? | NA | NA |

COMMENTS:

CS3 13C-1, 2, 3, 4 - TCDD RT = 15:10

\*Method 8290/T09/M0023A: %RSD ≤20% for natives, ≤30% for labeled compounds; S/N ≥10  
 Method 1613B: %RSD ≤ 20% natives, ≤30% labeled compounds; S/N ≥10  
 Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5



Run: 21AP105D2 Analyte: DB225 Cal: DB2250726105D2R

ST0726A :CS-1 10DXN342 RI ST0726B :CS-2 10DXN335 ST0726C :CS-3 10DXN336  
 ST0726E :CS-4 10DXN337 ST0726D :CS-5 10DXN339

| Name              | Mean  | S. D. | %RSD   | RRF1 | RRF2 | RRF3 | RRF4 | RRF5 |
|-------------------|-------|-------|--------|------|------|------|------|------|
| 13C-1,2,3,4-TCDD  | -     | -     | - %    | -    | -    | -    | -    | -    |
| 13C-2,3,7,8-TCDF  | 2.111 | 0.055 | 2.59 % | 2.14 | 2.09 | 2.12 | 2.03 | 2.18 |
| 2,3,7,8-TCDF      | 1.056 | 0.035 | 3.32 % | 1.11 | 1.04 | 1.02 | 1.06 | 1.04 |
| 13C-2,3,7,8-TCDD  | 0.885 | 0.025 | 2.78 % | 0.91 | 0.87 | 0.91 | 0.86 | 0.87 |
| 2,3,7,8-TCDD      | 1.636 | 0.024 | 1.44 % | 1.64 | 1.67 | 1.61 | 1.63 | 1.62 |
| 37Cl-2,3,7,8-TCDD | 1.290 | 0.038 | 2.92 % | 1.28 | 1.24 | 1.34 | 1.28 | 1.31 |

26JL105D2 26JL105D2 26JL105D2 26JL105D2 26JL105D2  
 S6 S5 S7 S9 S8

Run #1    Filename 26JL105D2    S: 6    I: 1  
 Acquired: 26-JUL-10 11:25:40    Processed: 26-JUL-10 12:26:14  
 Run: 21AP105D2    Analyte: DB225    Cal: DB2250726105D2R

Comments:

Sample text: ST0726A :CS-1 10DXN342 RI

| Name              | Resp     | RA     | RT    | RRF   |        | Mod? |
|-------------------|----------|--------|-------|-------|--------|------|
| 13C-1,2,3,4-TCDD  | 44088800 | 0.76 y | 15:11 | -     | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 94137800 | 0.80 y | 16:22 | 2.135 | 100.00 | n    |
| 2,3,7,8-TCDF      | 523639   | 0.72 y | 16:23 | 1.112 | 0.50   | n    |
| 13C-2,3,7,8-TCDD  | 40331700 | 0.79 y | 14:57 | 0.915 | 100.00 | n    |
| 2,3,7,8-TCDD      | 331274   | 0.79 y | 14:57 | 1.643 | 0.50   | n    |
| 37Cl-2,3,7,8-TCDD | 283070   | 1.00 y | 14:57 | 1.284 | 0.50   | n    |

Run #2    Filename 26JL105D2    S: 5    I: 1  
Acquired: 26-JUL-10 10:33:31    Processed: 26-JUL-10 12:26:15  
Run: 21AP105D2    Analyte: DB225    Cal: DB2250726105D2R

Comments:

Sample text: ST0726B :CS-2 10DXN335

| Name              | Resp      | RA     | RT    | RRF   |        | Mod? |
|-------------------|-----------|--------|-------|-------|--------|------|
| 13C-1,2,3,4-TCDD  | 163657200 | 0.78 y | 15:09 | -     | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 341921000 | 0.80 y | 16:22 | 2.089 | 100.00 | n    |
| 2,3,7,8-TCDF      | 7128550   | 0.76 y | 16:22 | 1.042 | 2.00   | n    |
| 13C-2,3,7,8-TCDD  | 142455600 | 0.77 y | 14:55 | 0.870 | 100.00 | n    |
| 2,3,7,8-TCDD      | 4759860   | 0.82 y | 14:57 | 1.671 | 2.00   | n    |
| 37C1-2,3,7,8-TCDD | 4046840   | 1.00 y | 14:57 | 1.236 | 2.00   | n    |

Run #3    Filename 26JL105D2    S: 7    I: 1  
Acquired: 26-JUL-10    11:59:28    Processed: 26-JUL-10    12:26:16  
Run: 21AP105D2    Analyte: DB225    Cal: DB2250726105D2R

Comments:

Sample text: ST0726C :CS-3 10DXN336

| Name              | Resp      | RA     | RT    | RRF   |        | Mod? |
|-------------------|-----------|--------|-------|-------|--------|------|
| 13C-1,2,3,4-TCDD  | 128251800 | 0.79 y | 15:10 | -     | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 272023000 | 0.80 y | 16:22 | 2.121 | 100.00 | n    |
| 2,3,7,8-TCDF      | 27756400  | 0.79 y | 16:23 | 1.020 | 10.00  | n    |
| 13C-2,3,7,8-TCDD  | 116269100 | 0.80 y | 14:56 | 0.907 | 100.00 | n    |
| 2,3,7,8-TCDD      | 18681120  | 0.82 y | 14:57 | 1.607 | 10.00  | n    |
| 37Cl-2,3,7,8-TCDD | 17122860  | 1.00 y | 14:58 | 1.335 | 10.00  | n    |

Run #4    Filename 26JL105D2    S: 9    I: 1  
 Acquired: 26-JUL-10    13:07:04    Processed: 26-JUL-10    13:28:30  
 Run: 21AP105D2    Analyte: DB225    Cal: DB2250726105D2R

Comments:

Sample text: ST0726E :CS-4 10DXN337

| Name              | Resp      | RA     | RT    | RRF   |        | Mod? |
|-------------------|-----------|--------|-------|-------|--------|------|
| 13C-1,2,3,4-TCDD  | 123056700 | 0.79 y | 15:08 | -     | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 250112000 | 0.82 y | 16:21 | 2.032 | 100.00 | n    |
| 2,3,7,8-TCDF      | 106424700 | 0.78 y | 16:22 | 1.064 | 40.00  | n    |
| 13C-2,3,7,8-TCDD  | 105587000 | 0.78 y | 14:54 | 0.858 | 100.00 | n    |
| 2,3,7,8-TCDD      | 69020900  | 0.83 y | 14:55 | 1.634 | 40.00  | n    |
| 37Cl-2,3,7,8-TCDD | 62912600  | 1.00 y | 14:55 | 1.278 | 40.00  | n    |

Run #5    Filename 26JL105D2    S: 8    I: 1  
Acquired: 26-JUL-10 12:33:16    Processed: 26-JUL-10 13:28:36  
Run: 21AP105D2    Analyte: DB225    Cal: DB2250726105D2R  
Comments:

Sample text: ST0726D :CS-5 10DXN339

| Name              | Resp      | RA     | RT    | RRF   |        | Mod? |
|-------------------|-----------|--------|-------|-------|--------|------|
| 13C-1,2,3,4-TCDD  | 131444700 | 0.78 y | 15:10 | -     | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 286396000 | 0.80 y | 16:22 | 2.179 | 100.00 | n    |
| 2,3,7,8-TCDF      | 596616000 | 0.78 y | 16:23 | 1.042 | 200.00 | n    |
| 13C-2,3,7,8-TCDD  | 114849700 | 0.78 y | 14:56 | 0.874 | 100.00 | n    |
| 2,3,7,8-TCDD      | 373245000 | 0.82 y | 14:57 | 1.625 | 200.00 | n    |
| 37Cl-2,3,7,8-TCDD | 345562000 | 1.00 y | 14:57 | 1.314 | 200.00 | n    |

Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R

ST0726A :CS-1 10DXN342 RI ST0726B :CS-2 10DXN335 ST0726C :CS-3 10DXN336  
 ST0726E :CS-4 10DXN337 ST0726D :CS-5 10DXN339

| Name              | Mean  | S. D. | %RSD   | 26JL105D2 |      |      |      |      |
|-------------------|-------|-------|--------|-----------|------|------|------|------|
|                   |       |       |        | RRF1      | RRF2 | RRF3 | RRF4 | RRF5 |
| 13C-1,2,3,4-TCDD  | -     | -     | - %    | -         | -    | -    | -    | -    |
| 13C-2,3,7,8-TCDF  | 2.111 | 0.055 | 2.59 % | 2.14      | 2.09 | 2.12 | 2.03 | 2.18 |
| 2,3,7,8-TCDF      | 1.056 | 0.035 | 3.32 % | 1.11      | 1.04 | 1.02 | 1.06 | 1.04 |
| 13C-2,3,7,8-TCDD  | 0.885 | 0.025 | 2.78 % | 0.91      | 0.87 | 0.91 | 0.86 | 0.87 |
| 2,3,7,8-TCDD      | 1.636 | 0.024 | 1.44 % | 1.64      | 1.67 | 1.61 | 1.63 | 1.62 |
| 37Cl-2,3,7,8-TCDD | 1.458 | 0.044 | 3.01 % | 1.40      | 1.42 | 1.47 | 1.49 | 1.50 |

Run #1 Filename 26JL105D2 S: 6 I: 1  
Acquired: 26-JUL-10 11:25:40 Processed: 15-SEP-10 09:51:11  
Run: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2R

## Comments:

Sample text: ST0726A :CS-1 10DXN342 RI

| Name              | Resp     | RA     | RT    | RRF   |        | Mod? |
|-------------------|----------|--------|-------|-------|--------|------|
| 13C-1,2,3,4-TCDD  | 44088800 | 0.76 y | 15:11 | -     | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 94137800 | 0.80 y | 16:22 | 2.135 | 100.00 | n    |
| 2,3,7,8-TCDF      | 523639   | 0.72 y | 16:23 | 1.112 | 0.50   | n    |
| 13C-2,3,7,8-TCDD  | 40331700 | 0.79 y | 14:57 | 0.915 | 100.00 | n    |
| 2,3,7,8-TCDD      | 331274   | 0.79 y | 14:57 | 1.643 | 0.50   | n    |
| 37Cl-2,3,7,8-TCDD | 283070   | 1.00 y | 14:57 | 1.404 | 0.50   | n    |



Run #2    Filename 26JL105D2    S: 5    I: 1  
 Acquired: 26-JUL-10 10:33:31    Processed: 15-SEP-10 09:51:11  
 Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2R

Comments:

Sample text: ST0726B :CS-2 10DXN335

| Name              | Resp      | RA     | RT    | RRF   |        | Mod? |
|-------------------|-----------|--------|-------|-------|--------|------|
| 13C-1,2,3,4-TCDD  | 163657200 | 0.78 y | 15:09 | -     | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 341921000 | 0.80 y | 16:22 | 2.089 | 100.00 | n    |
| 2,3,7,8-TCDF      | 7128550   | 0.76 y | 16:22 | 1.042 | 2.00   | n    |
| 13C-2,3,7,8-TCDD  | 142455600 | 0.77 y | 14:55 | 0.870 | 100.00 | n    |
| 2,3,7,8-TCDD      | 4759860   | 0.82 y | 14:57 | 1.671 | 2.00   | n    |
| 37Cl-2,3,7,8-TCDD | 4046840   | 1.00 y | 14:57 | 1.420 | 2.00   | n    |

Run #3    Filename 26JL105D2    S: 7    I: 1  
Acquired: 26-JUL-10 11:59:28    Processed: 15-SEP-10 09:51:12  
Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2R  
Comments:  
Sample text: ST0726C :CS-3 10DXN336

| Name              | Resp      | RA     | RT    | RRF   |        | Mod? |
|-------------------|-----------|--------|-------|-------|--------|------|
| 13C-1,2,3,4-TCDD  | 128251800 | 0.79 y | 15:10 | -     | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 272023000 | 0.80 y | 16:22 | 2.121 | 100.00 | n    |
| 2,3,7,8-TCDF      | 27756400  | 0.79 y | 16:23 | 1.020 | 10.00  | n    |
| 13C-2,3,7,8-TCDD  | 116269100 | 0.80 y | 14:56 | 0.907 | 100.00 | n    |
| 2,3,7,8-TCDD      | 18681120  | 0.82 y | 14:57 | 1.607 | 10.00  | n    |
| 37Cl-2,3,7,8-TCDD | 17122860  | 1.00 y | 14:58 | 1.473 | 10.00  | n    |

Run #4    Filename 26JL105D2    S: 9    I: 1  
Acquired: 26-JUL-10 13:07:04    Processed: 15-SEP-10 09:51:13  
Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2R  
Comments:  
Sample text: ST0726E :CS-4 10DXN337

| Name              | Resp      | RA     | RT    | RRF   |        | Mod? |
|-------------------|-----------|--------|-------|-------|--------|------|
| 13C-1,2,3,4-TCDD  | 123056800 | 0.79 y | 15:08 | -     | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 250112000 | 0.82 y | 16:21 | 2.032 | 100.00 | n    |
| 2,3,7,8-TCDF      | 106424800 | 0.78 y | 16:22 | 1.064 | 40.00  | n    |
| 13C-2,3,7,8-TCDD  | 105587000 | 0.78 y | 14:54 | 0.858 | 100.00 | n    |
| 2,3,7,8-TCDD      | 69020900  | 0.83 y | 14:55 | 1.634 | 40.00  | n    |
| 37Cl-2,3,7,8-TCDD | 62912400  | 1.00 y | 14:55 | 1.490 | 40.00  | n    |

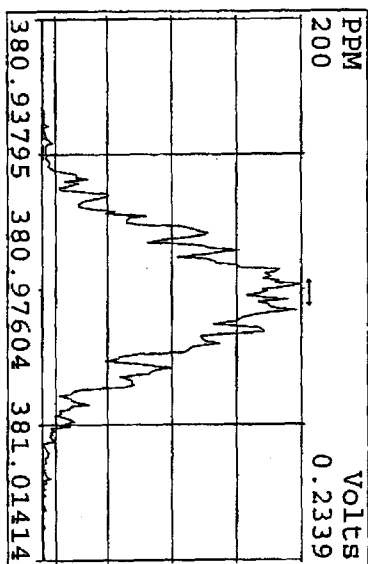
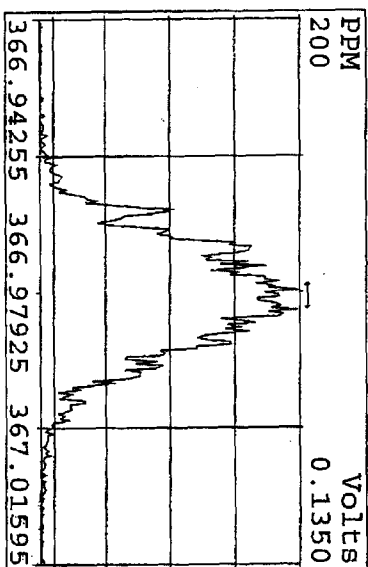
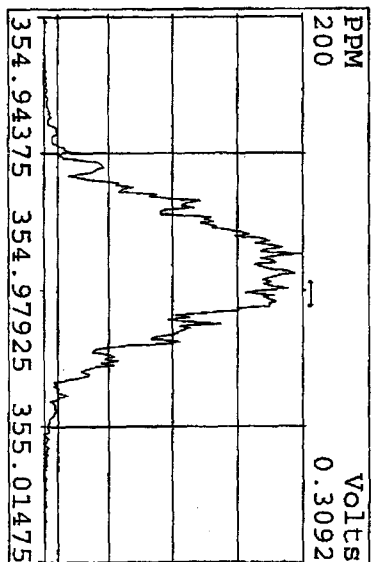
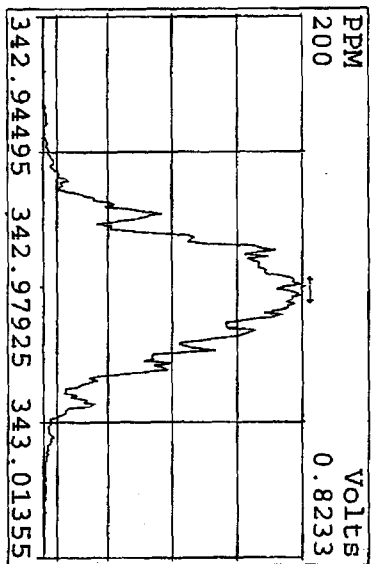
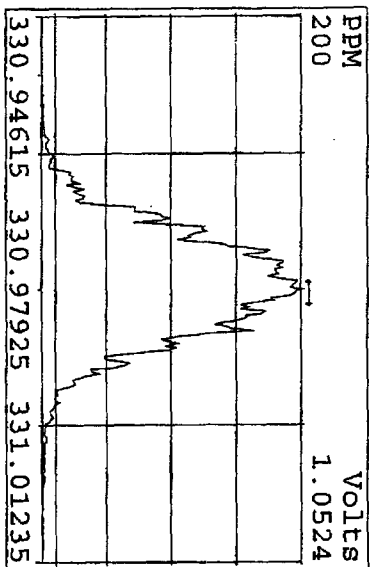
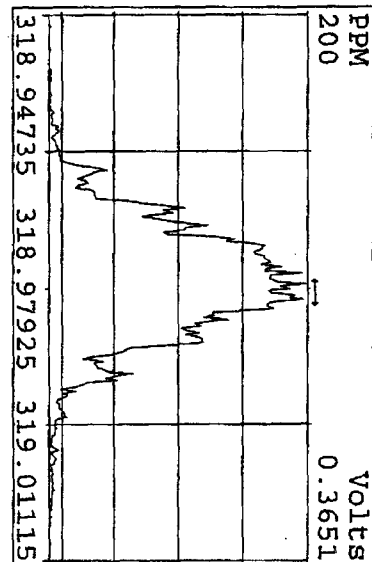
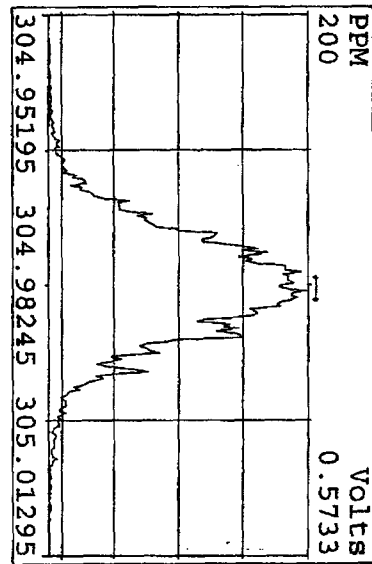
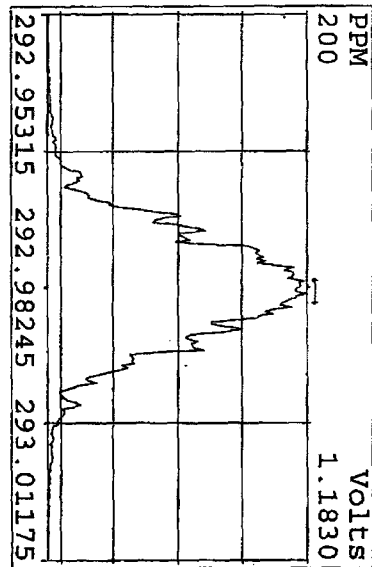
Run #5    Filename 26JL105D2    S: 8    I: 1  
 Acquired: 26-JUL-10 12:33:16    Processed: 15-SEP-10 09:51:13  
 Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2R  
 Comments:  
 Sample text: ST0726D :CS-5 10DXN339

| Name              | Resp      | RA     | RT    | RRF   |        | Mod? |
|-------------------|-----------|--------|-------|-------|--------|------|
| 13C-1,2,3,4-TCDD  | 131444700 | 0.78 y | 15:10 | -     | 100.00 | n    |
| 13C-2,3,7,8-TCDF  | 286396000 | 0.80 y | 16:22 | 2.179 | 100.00 | n    |
| 2,3,7,8-TCDF      | 596616000 | 0.78 y | 16:23 | 1.042 | 200.00 | n    |
| 13C-2,3,7,8-TCDD  | 114849700 | 0.78 y | 14:56 | 0.874 | 100.00 | n    |
| 2,3,7,8-TCDD      | 373245000 | 0.82 y | 14:57 | 1.625 | 200.00 | n    |
| 37C1-2,3,7,8-TCDD | 345562000 | 1.00 y | 14:57 | 1.504 | 200.00 | n    |

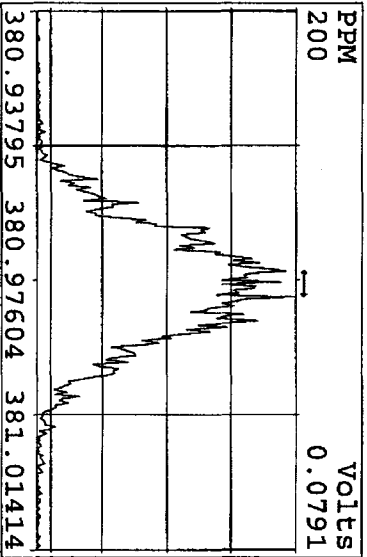
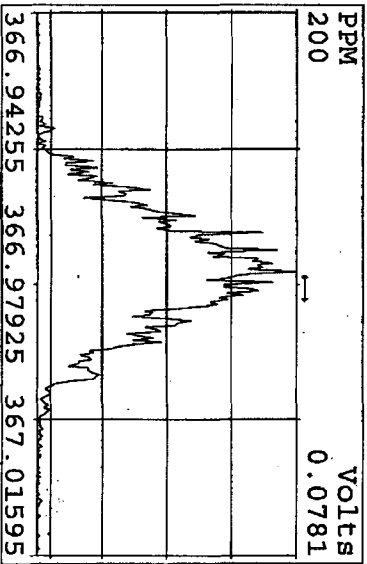
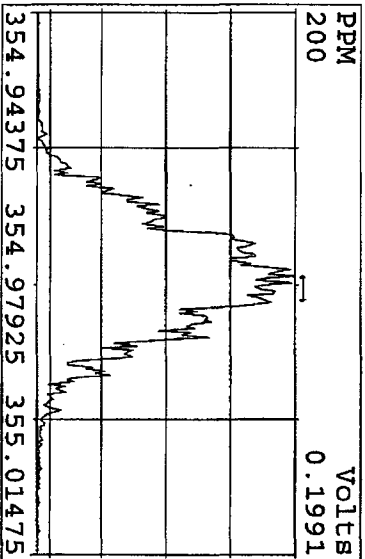
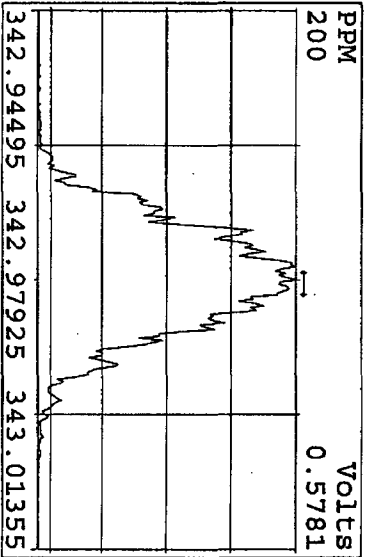
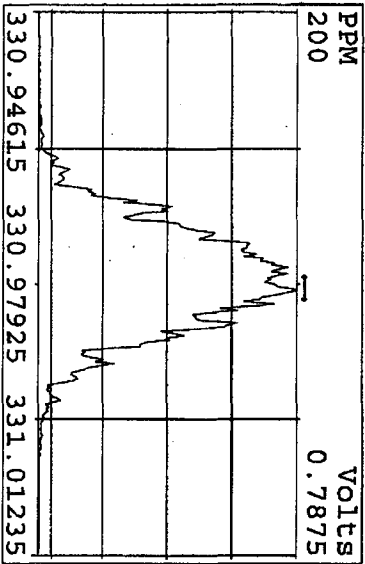
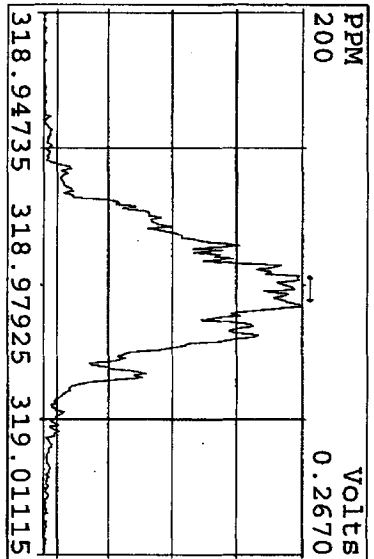
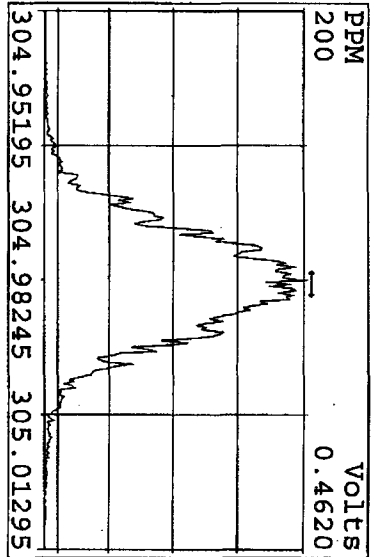
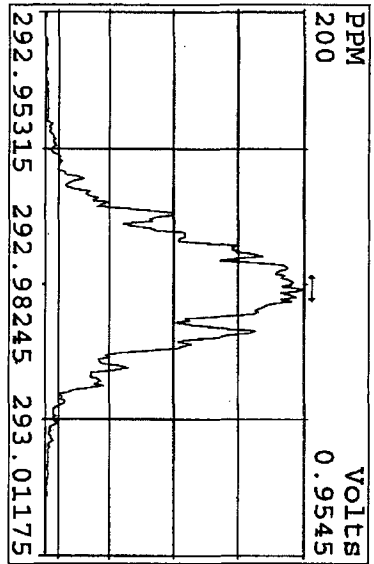
| Data file | Smp | Work Order | Sample ID           | FV-uL | Method/Matrix | Box | Size   | U |
|-----------|-----|------------|---------------------|-------|---------------|-----|--------|---|
| 26JL105D2 | 1   | CP0726     | DB-225 CPSM 3732-06 |       |               |     | 1.0000 |   |
| 26JL105D2 | 2   | SB0726     | Solvent Blank C-14  |       |               |     | 1.0000 |   |
| 26JL105D2 | 3   | ST0726     | CS-0.2 10DXN333     |       |               |     | 1.0000 |   |
| 26JL105D2 | 4   | ST0726A    | CS-1 10DXN342       |       |               |     | 1.0000 |   |
| 26JL105D2 | 5   | ST0726B    | CS-2 10DXN335       |       |               |     | 1.0000 |   |
| 26JL105D2 | 6   | ST0726A    | CS-1 10DXN342 RI    |       |               |     | 1.0000 |   |
| 26JL105D2 | 7   | ST0726C    | CS-3 10DXN336       |       |               |     | 1.0000 |   |
| 26JL105D2 | 8   | ST0726D    | CS-5 10DXN339       |       |               |     | 1.0000 |   |
| 26JL105D2 | 9   | ST0726E    | CS-4 10DXN337       |       |               |     | 1.0000 |   |
| 26JL105D2 | 10  | ST0726F    | 2nd Source 10DXN340 |       |               |     | 1.0000 |   |
| 26JL105D2 | 11  |            |                     |       |               |     | 1.0000 |   |
| 26JL105D2 | 12  |            |                     |       |               |     | 1.0000 |   |
| 26JL105D2 | 13  |            |                     |       |               |     | 1.0000 |   |
| 26JL105D2 | 14  |            | KSS 07/26/10        |       |               |     | 1.0000 |   |

*logfile v'd  
NK 7/26/10*

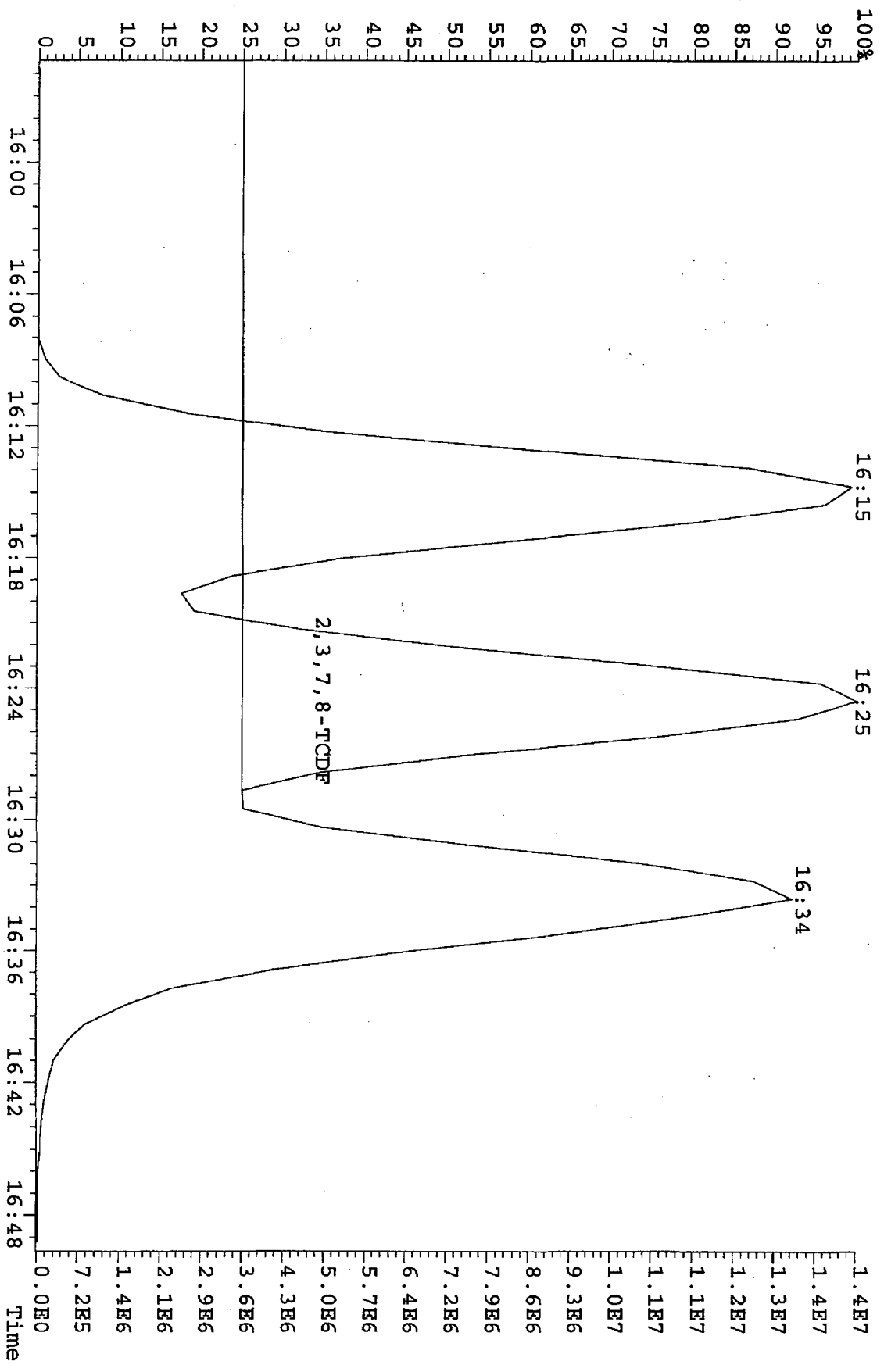
Peak Locate Examination: 26-JUL-2010: 08:17 File: 26JL105D2  
 Experiment: DB225RES Function: 1 Reference: PFK



Peak Locate Examination: 26-JUL-2010:14:43 File: 26JL105D2ENDRES  
 Experiment: DB225RES Function: 1 Reference: PRK



File: 26JUL105D2 #1-720 Acq: 26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE  
 303.9016 BSUB (128,15,-3.0) Exp: DB225RES Noise: 1410





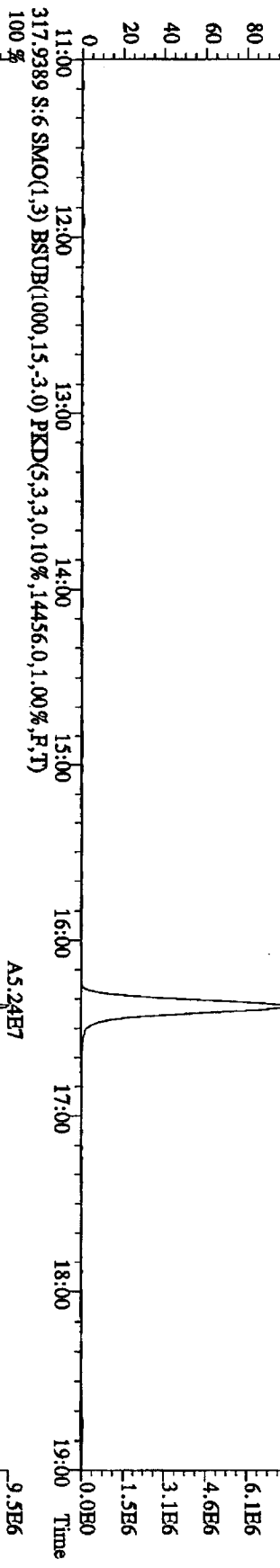
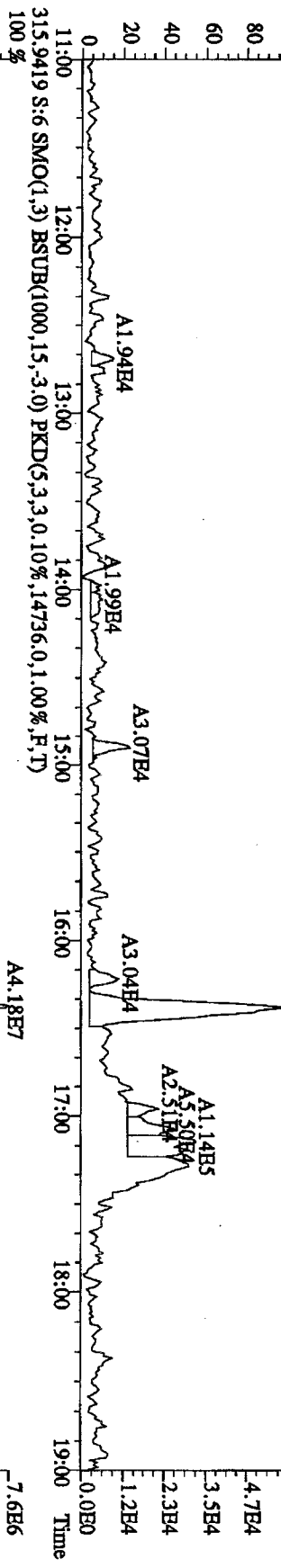
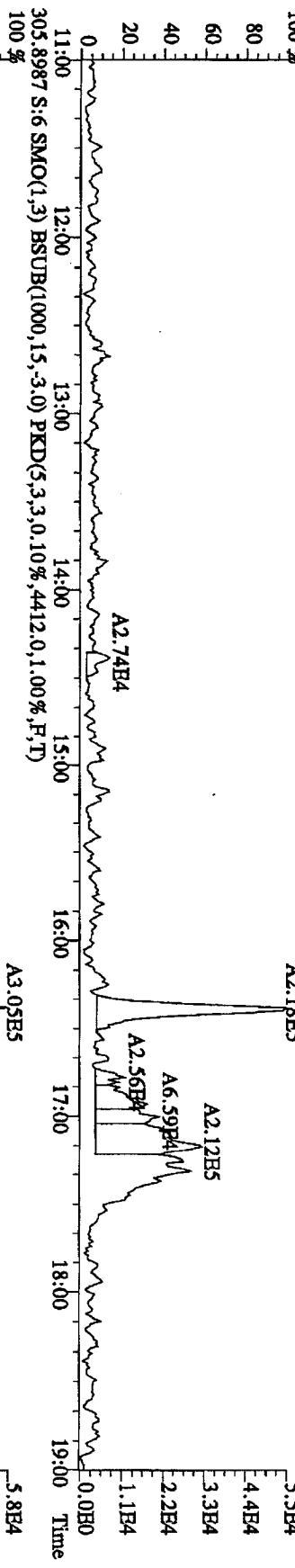
Run text: ST0726F                      Sample text: ST0726F :2nd Source 10DXN340  
 Run #6    Filename: 26JL105D2    S: 10    I: 1                      Results: 26JL105D2DB225  
 Acquired: 26-JUL-10    13:40:52                      Processed: 26-JUL-10    14:33:34  
 Run: 26JL105D2                      Analyte: DB225                      Cal: DB2250726105D2  
 Factor 1: 800.000                      Factor 2: 20.000                      Sample size: 1.000000

*Spiked @ 200*

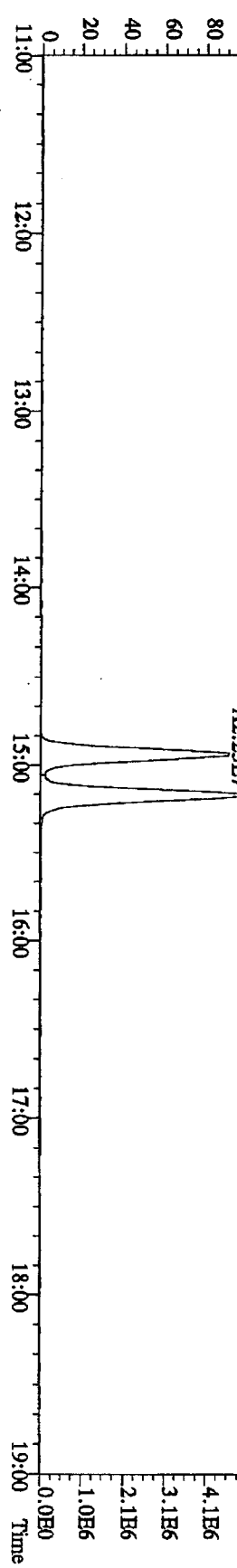
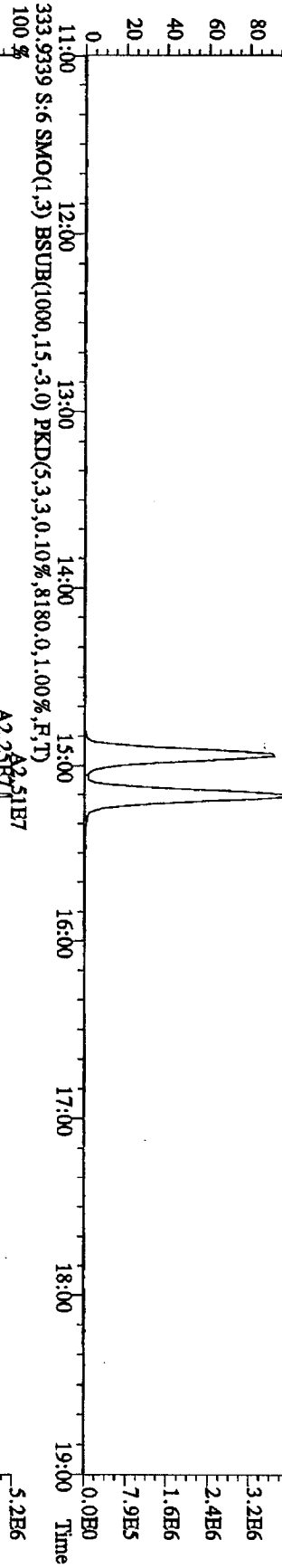
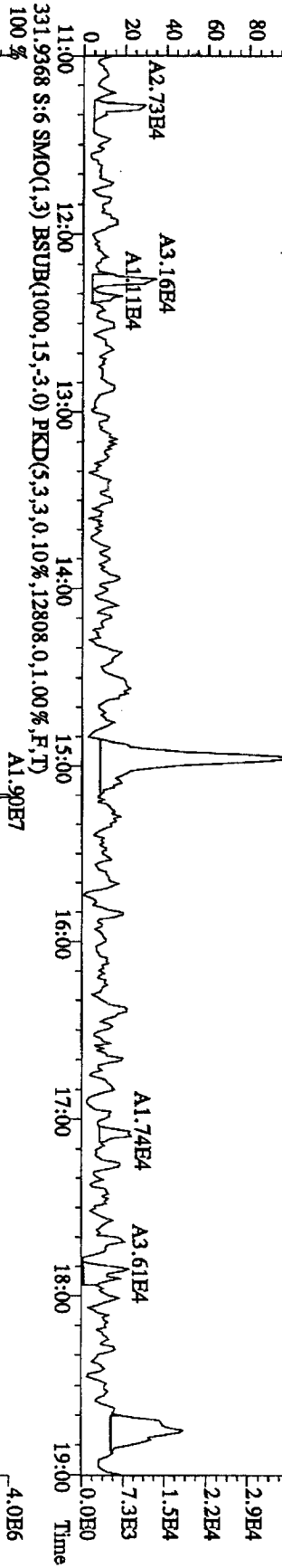
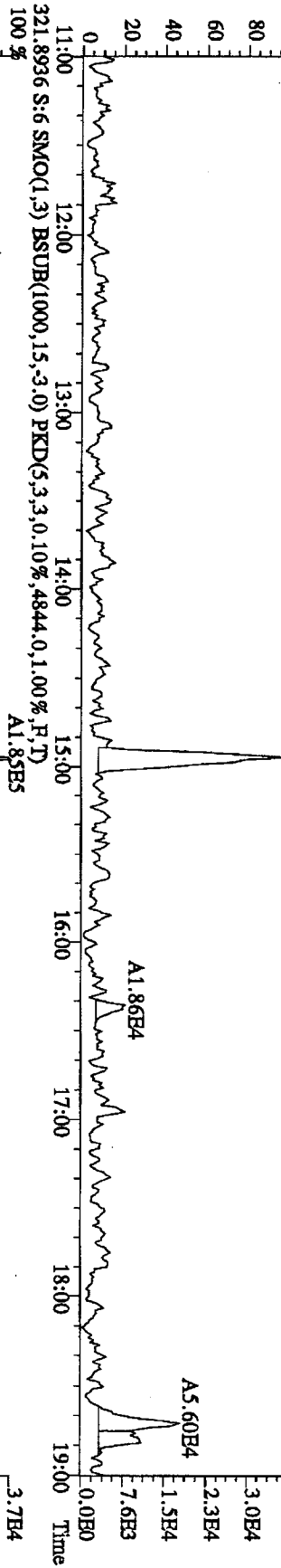
*7/26/10  
KSS*

| Name              | Resp      | RA     | RT    | RRF  | Conc         | EDL  | Rec   | M |
|-------------------|-----------|--------|-------|------|--------------|------|-------|---|
| 13C-1,2,3,4-TCDD  | 117485800 | 0.79 y | 15:10 | -    | 99.48        | -    | -     | n |
| 13C-2,3,7,8-TCDF  | 262969000 | 0.78 y | 16:22 | 2.11 | 2120.25      | 5.39 | 106.0 | n |
| 2,3,7,8-TCDF      | 25049900  | 0.79 y | 16:23 | 1.06 | 180.39 ✓ 90% | 1.31 | -     | n |
| 13C-2,3,7,8-TCDD  | 111918800 | 0.79 y | 14:56 | 0.88 | 2153.49      | 7.15 | 107.7 | n |
| 2,3,7,8-TCDD      | 17243860  | 0.81 y | 14:57 | 1.64 | 188.37 ✓ 94% | 1.74 | -     | n |
| 37Cl-2,3,7,8-TCDD | 31323200  | 1.00 y | 14:57 | 1.29 | 413.47       | 2.68 | 103.4 | n |

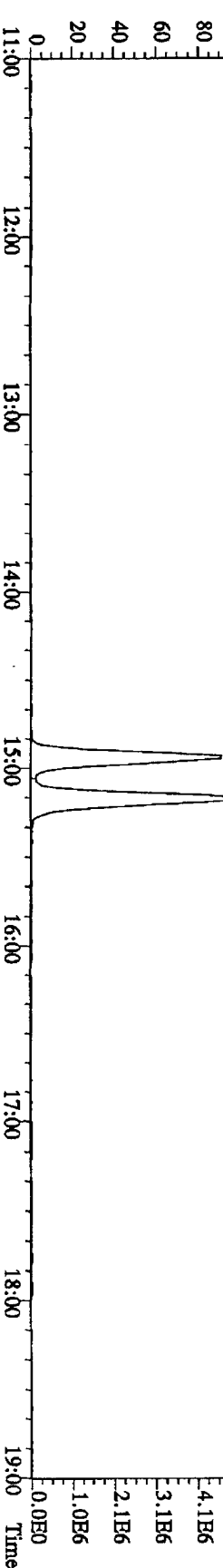
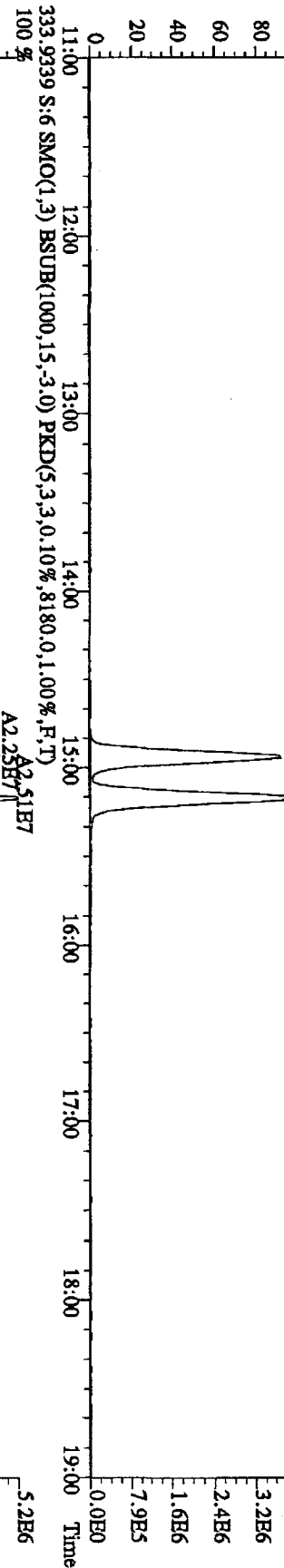
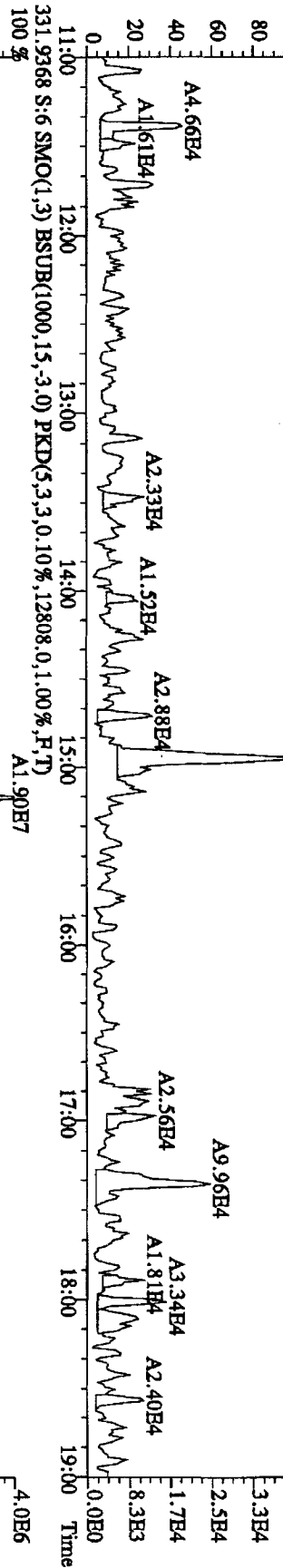
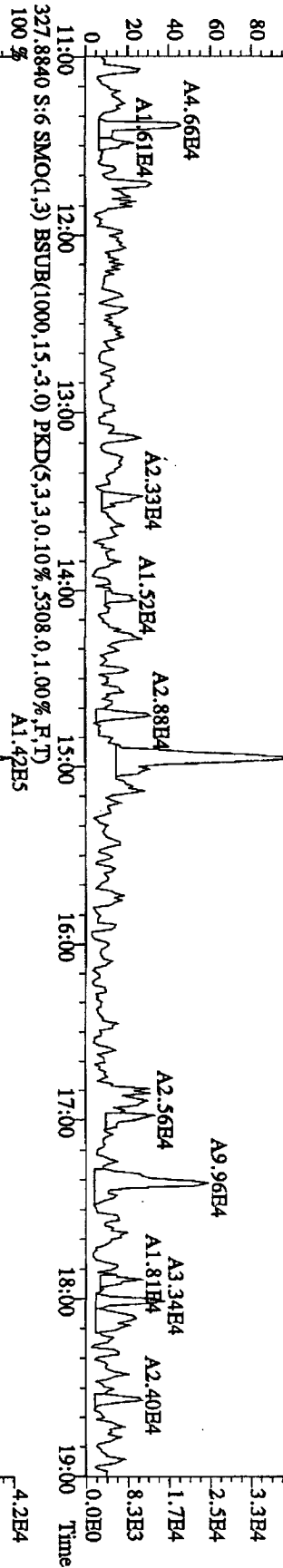
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC HI + Voltage SIR 70SE  
 Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES  
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.3908,0,1.00%,F,T)



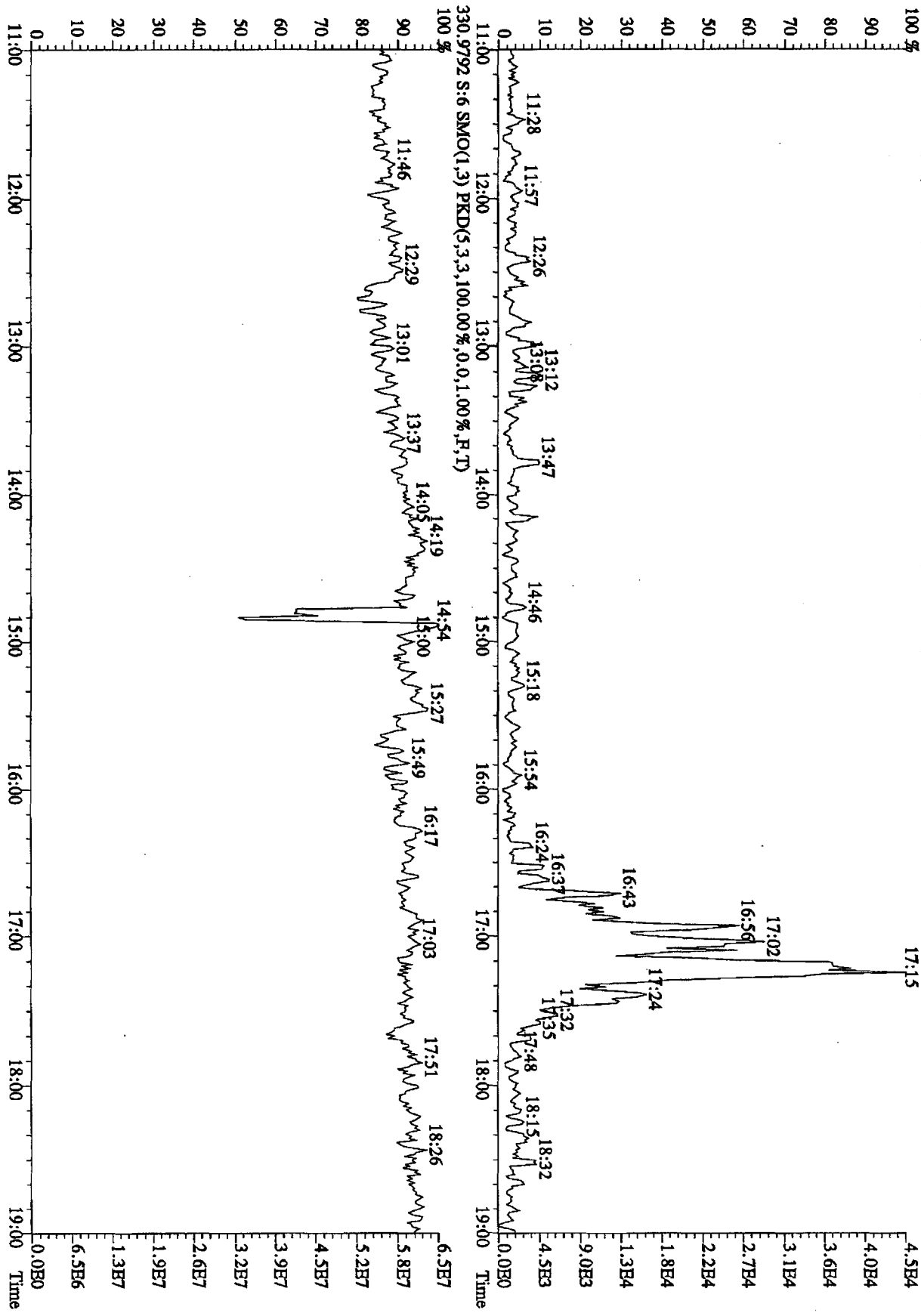
File: 261105D2 #1-1242 Acq: 26-JUL-2010 11:25:40 GC EI+ Voltage STR 70SE  
 Sample#6 Text: ST0726A :CS-1 10DXN342 RI Exp: DB225RES  
 319.8965 S: 6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3896,0,1,00%,F,T)  
 100%



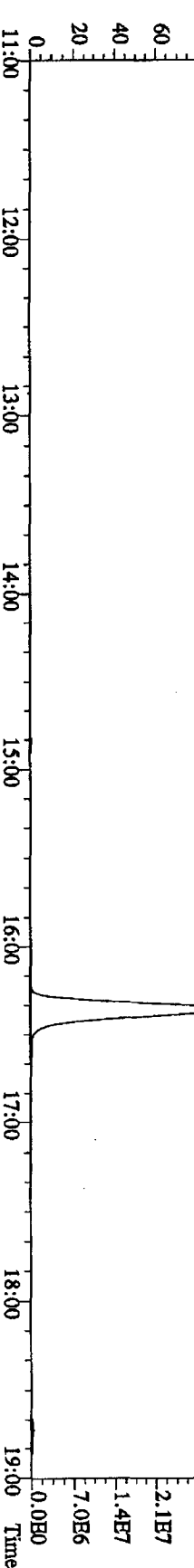
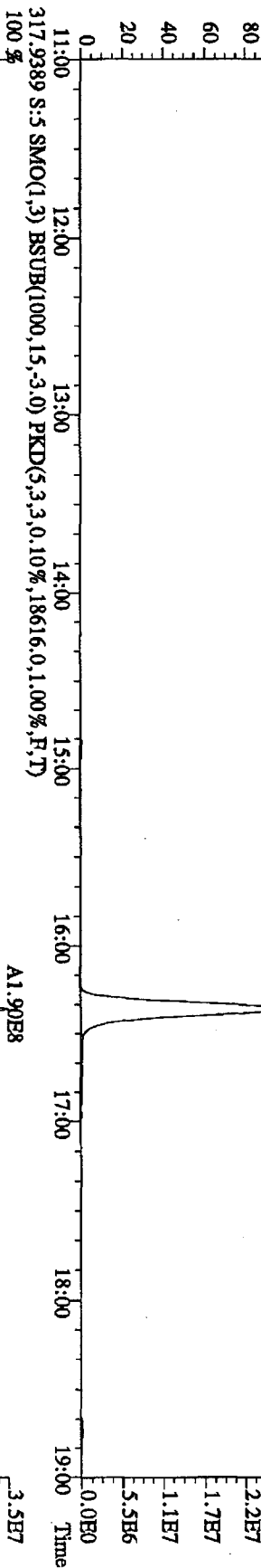
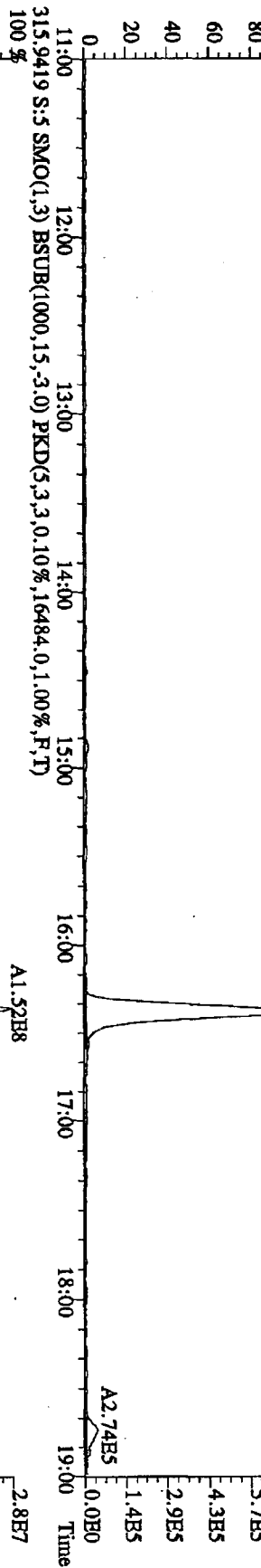
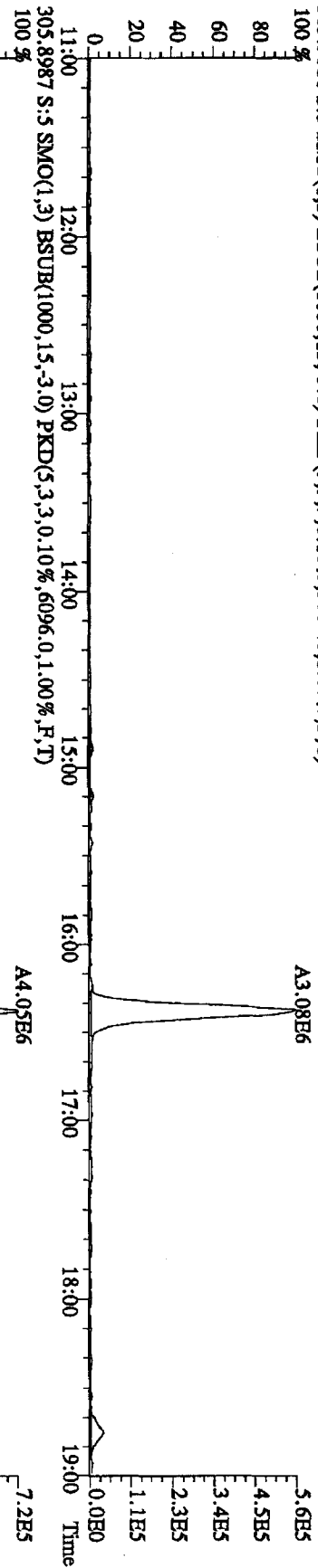
File: 261105D2 #1-1242 Acq: 26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE  
 Sample#6 Text: ST0726A :CS-110DXN342 RI Exp: DB225RBS  
 327.8840 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.5308,0.1,0.00%,F,T)  
 100%



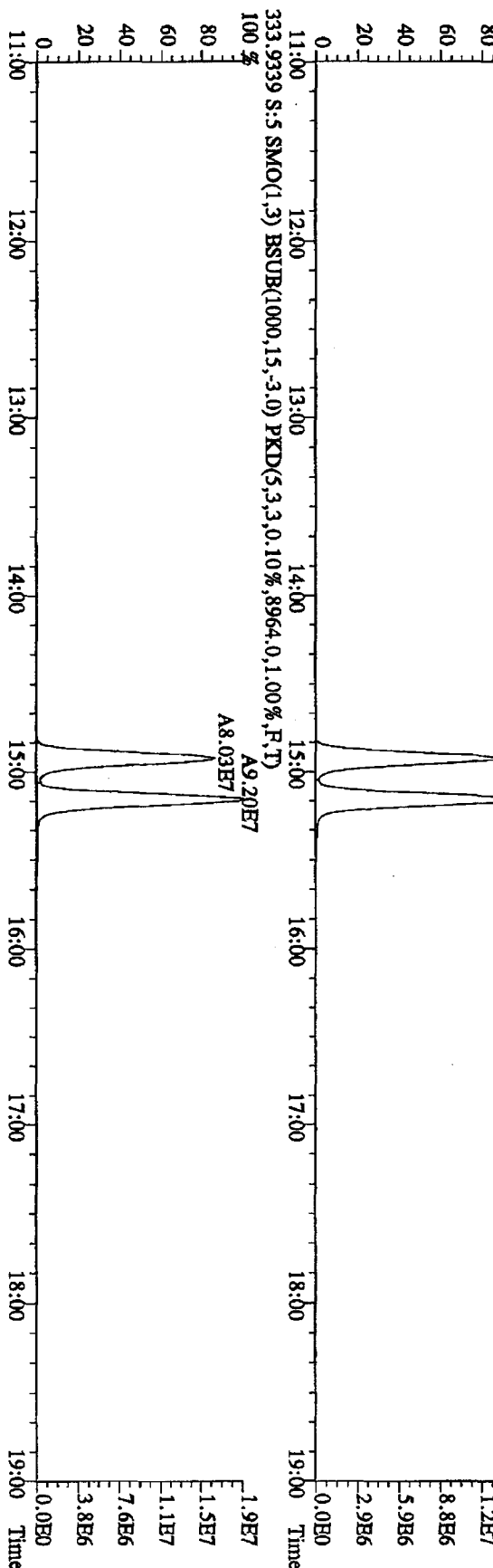
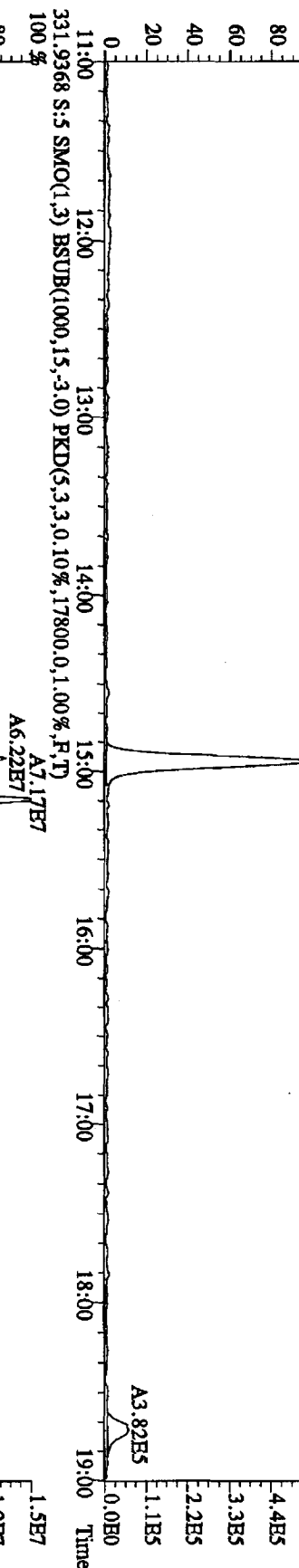
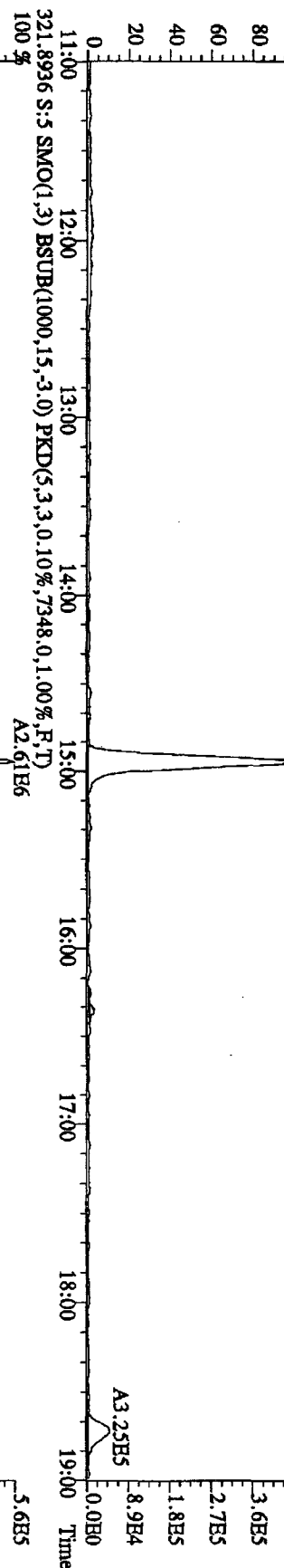
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE  
 Sample#6 Text: ST0726A :CS-1 10DXN342 RI Exp: DB225RHS  
 375.8364 S: 6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100,0.0%,1976,0,1,0.0%,F,T)



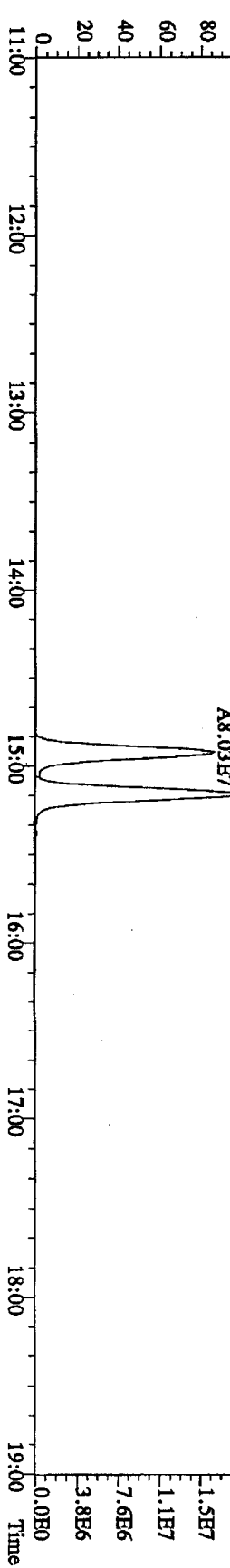
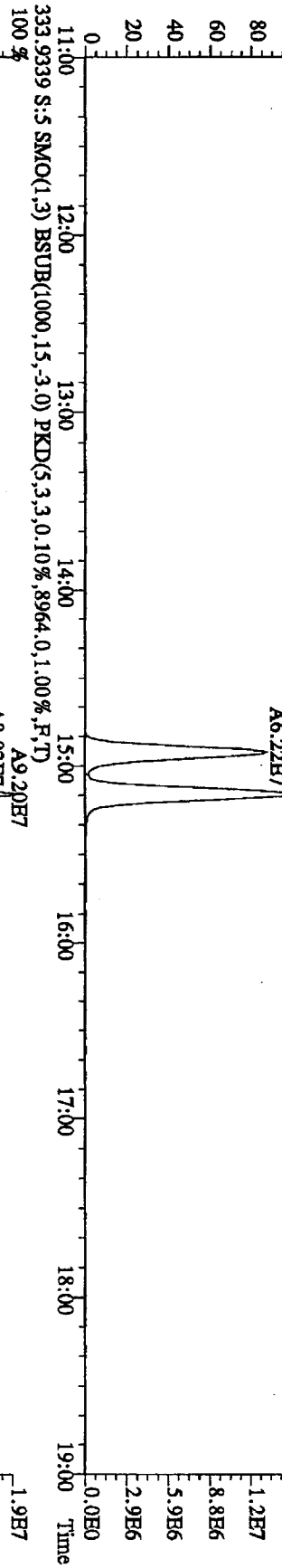
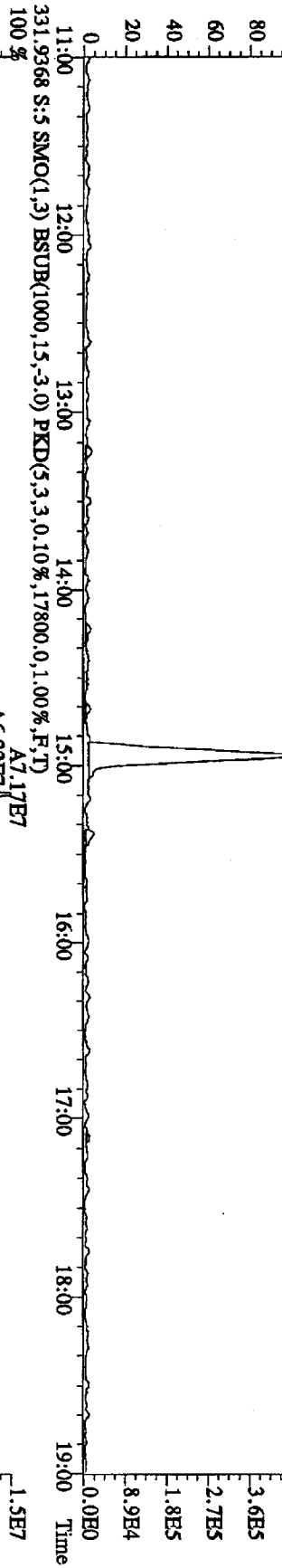
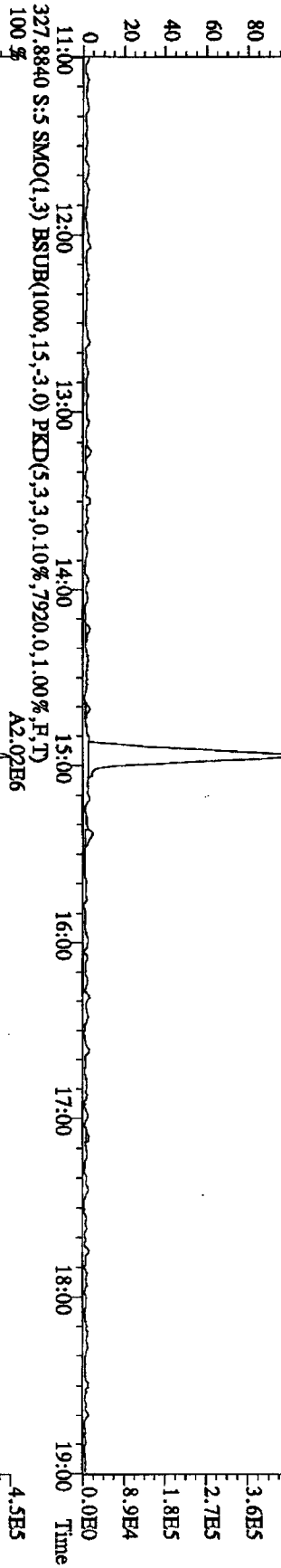
File:261L105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC HI+ Voltage SIR 70SB  
 Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES  
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5060.0,1.00%,F,T) 100%



File:26TL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC FI+ Voltage SIR 70SE  
 Sample#5 Text:ST0726B :CS-2 10DXN335 Bxp:DB225RES  
 319.8965 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5400,0.1,0.0% F,T)  
 100 % A2.15B6

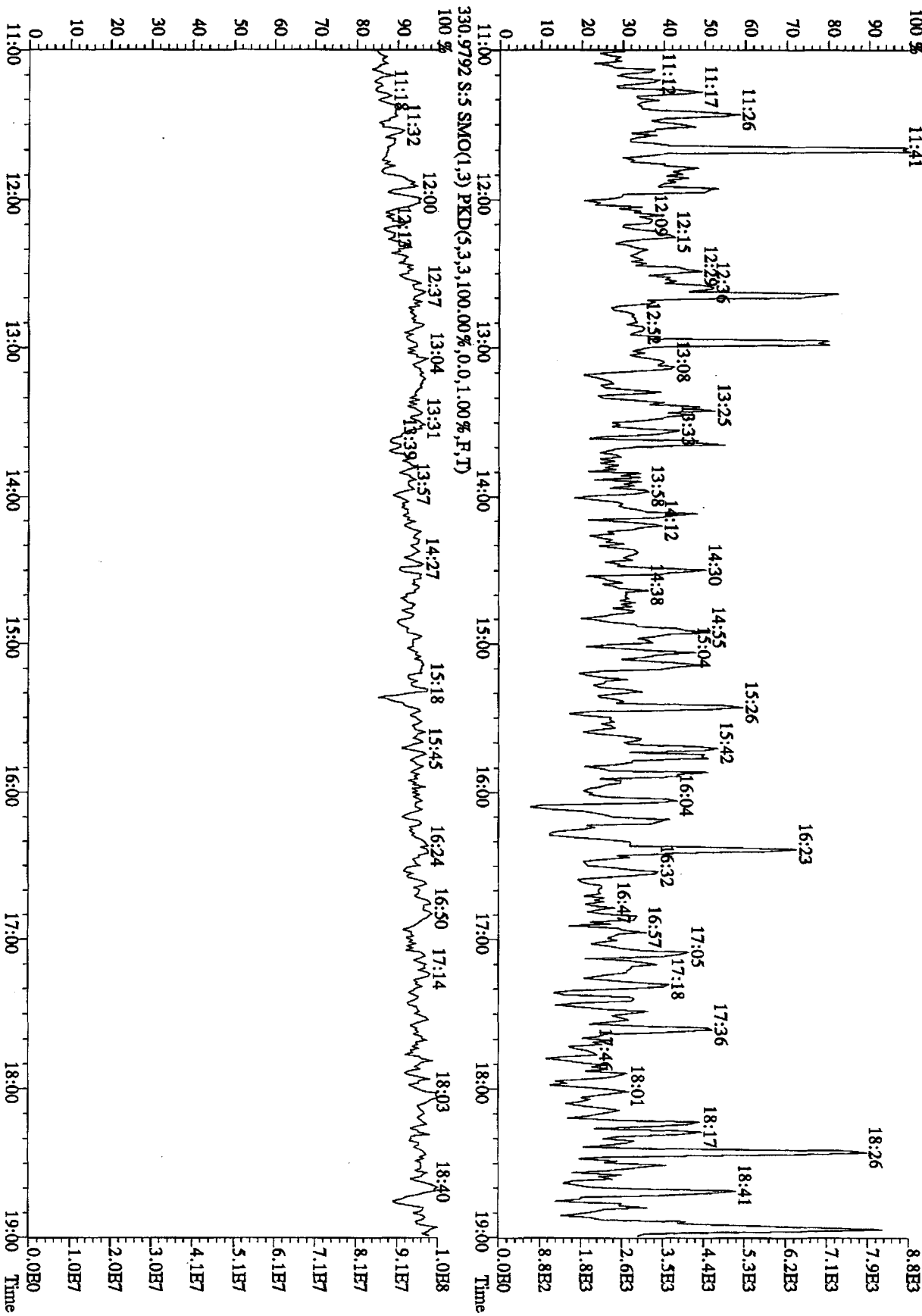


File: 261105D2 #1-1242 Acq: 26-JUL-2010 10:33:31 GC FI+ Voltage SIR 70SE  
 Sample#5 Text: ST0726B :CS-2 10DXN335 Exp: DB225RHS  
 327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7920,0.1,0.00%,F,T)  
 100% A2.02E6

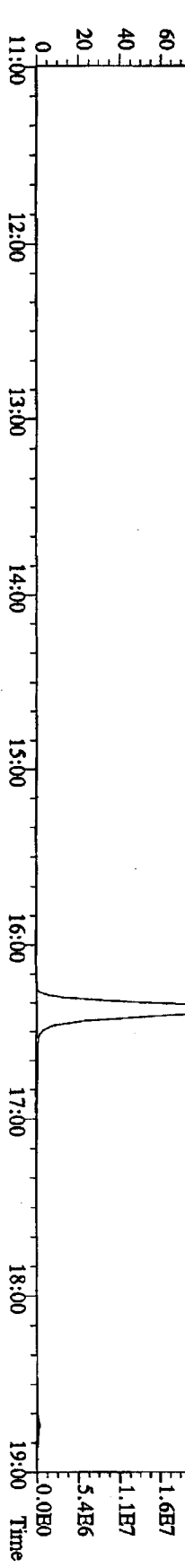
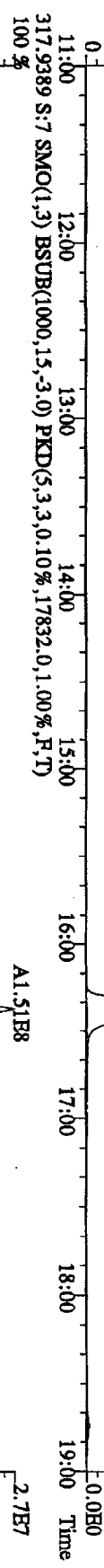
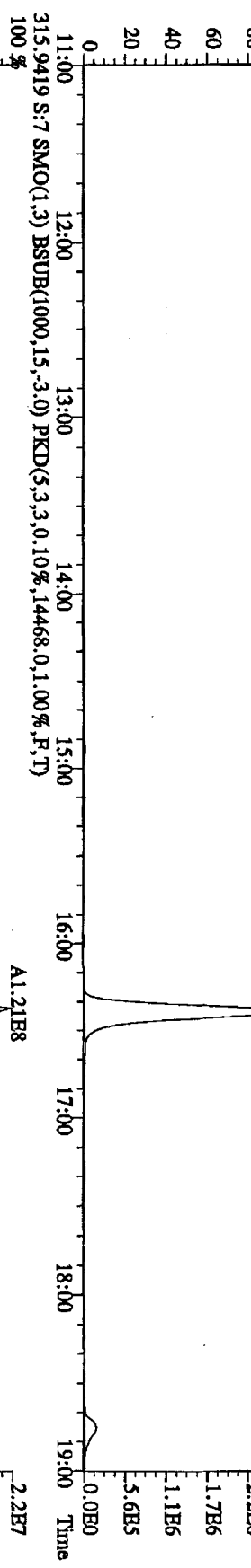
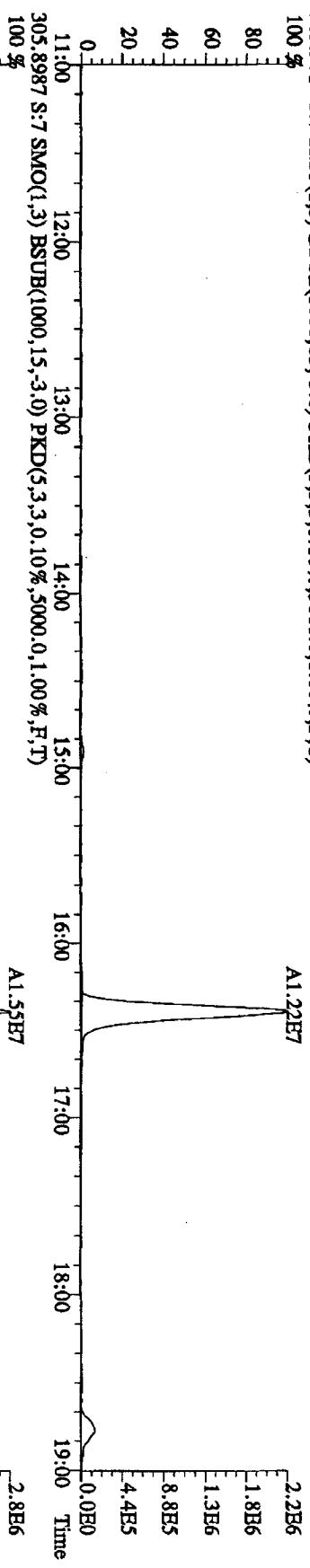




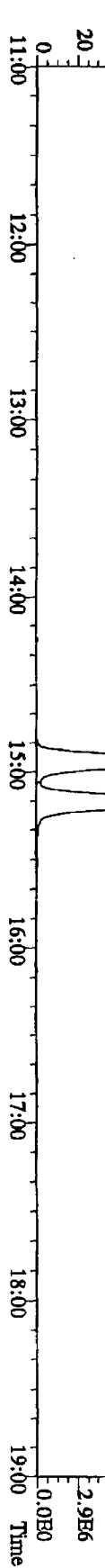
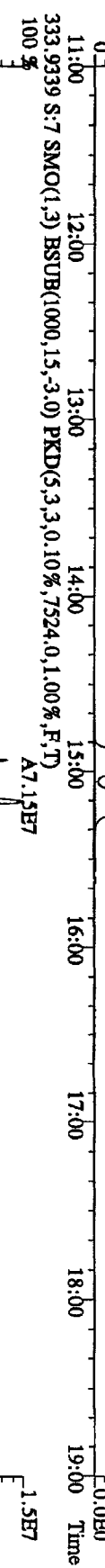
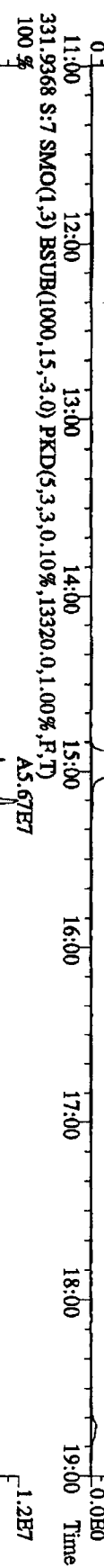
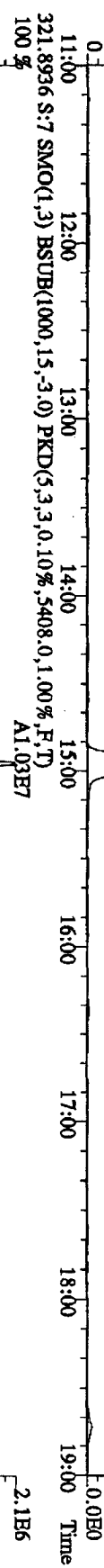
File:26JL105D2 #1-1242 Acq:26-JUL-2010 10:33:31 GC HI+ Voltage SIR 70SB  
 Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RHS  
 375.8364 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3156,0,1.00%,F,T)



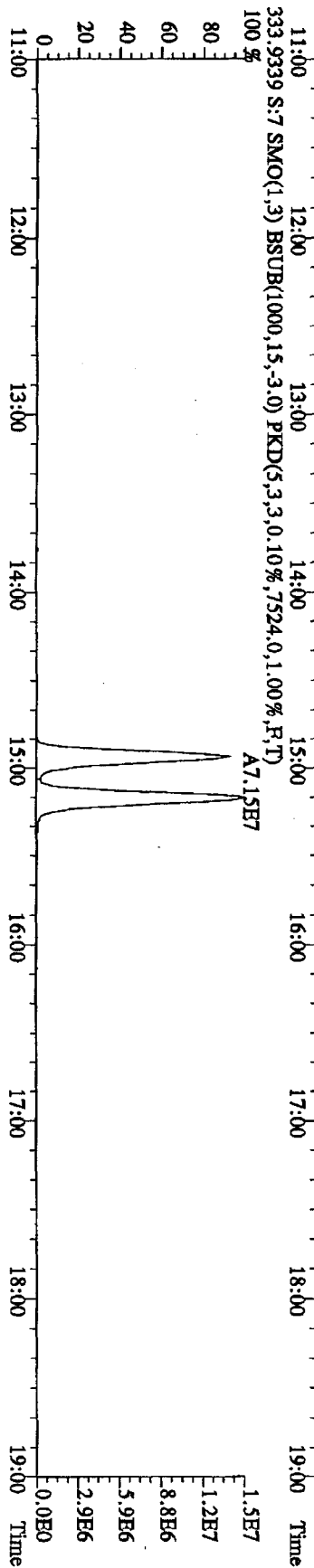
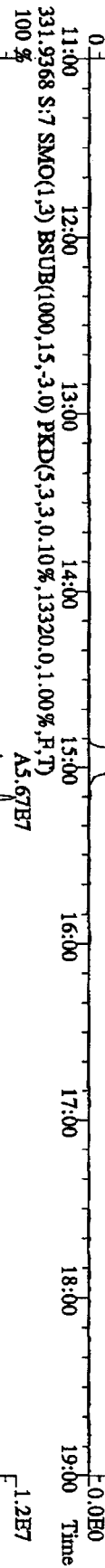
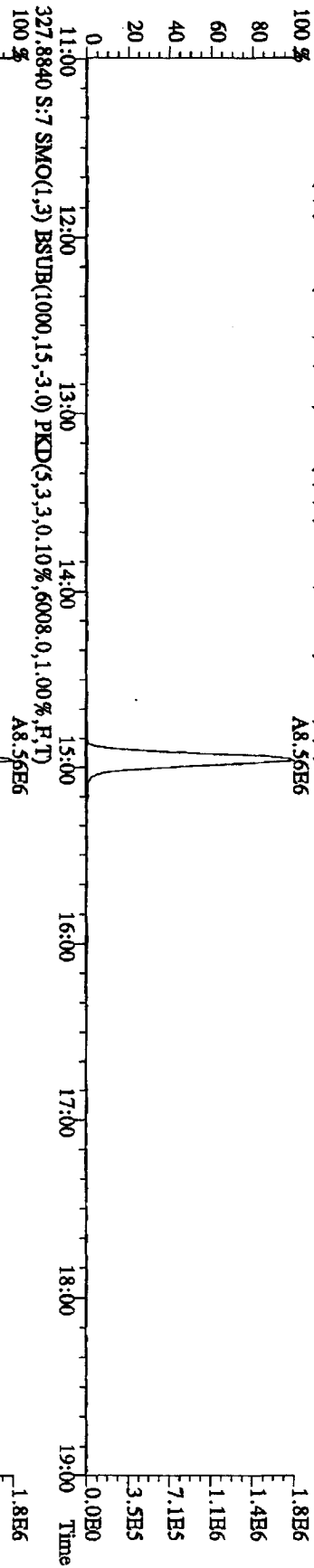
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SB  
 Sample#7 Text: ST0726C : CS-3 10DXN336 Exp: DB25RES  
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3660.0,1.00%,F,T)  
 100%



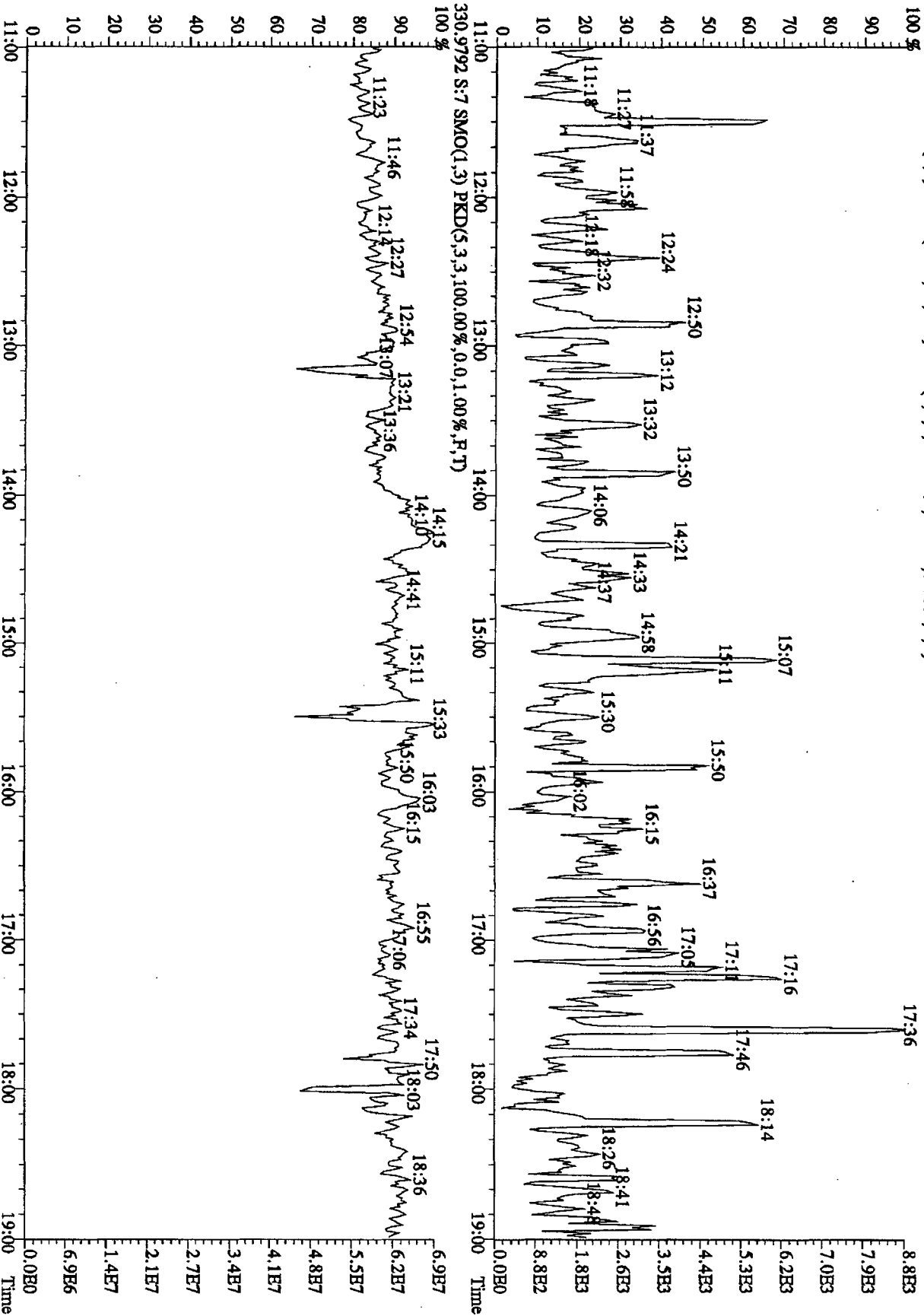
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0726C : CS-3 10DXN336 Exp: DB24RBS  
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4208.0,1.00%,F,T)  
 100% A8.43B6



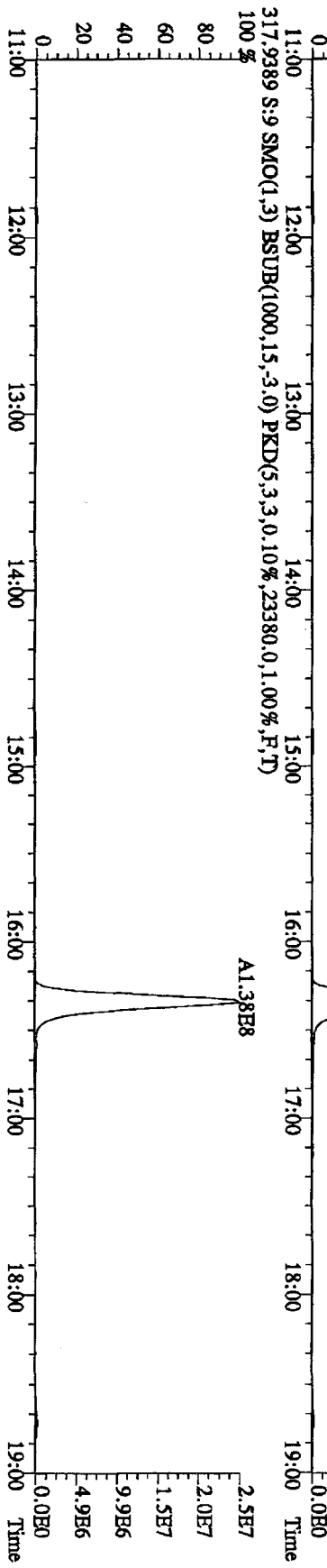
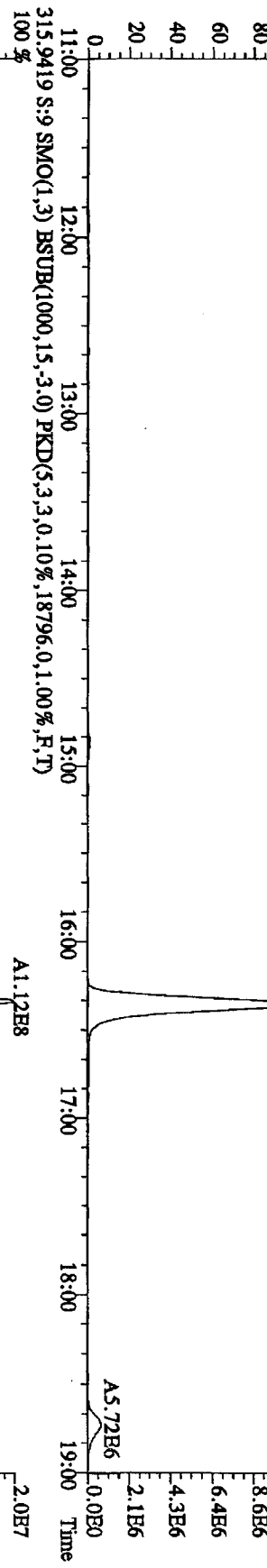
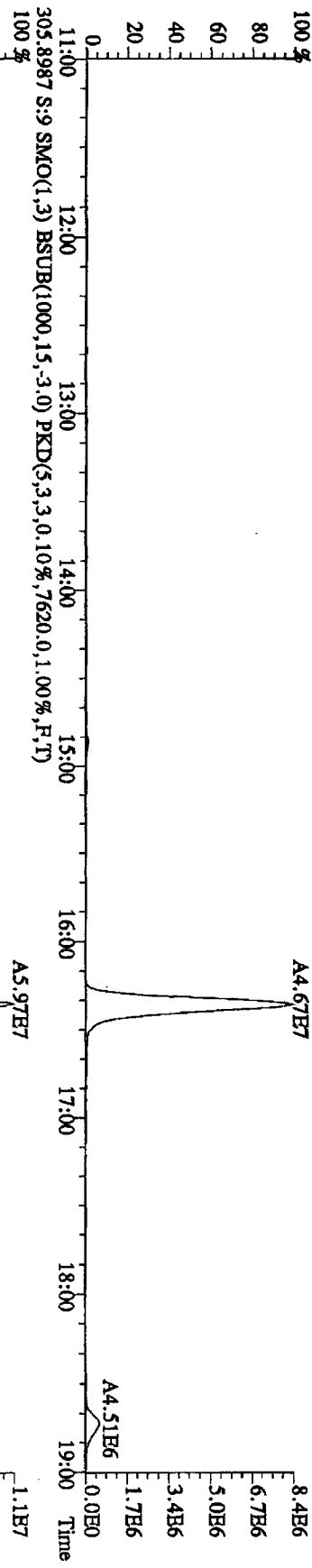
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0726C :CS-3 10DXN336 Exp: DB225RES  
 327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6008.0,1.00%,F,T)  
 100% A8.56E6



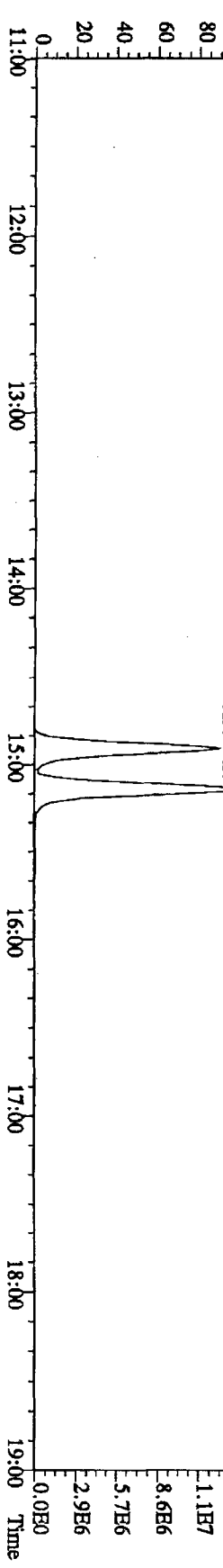
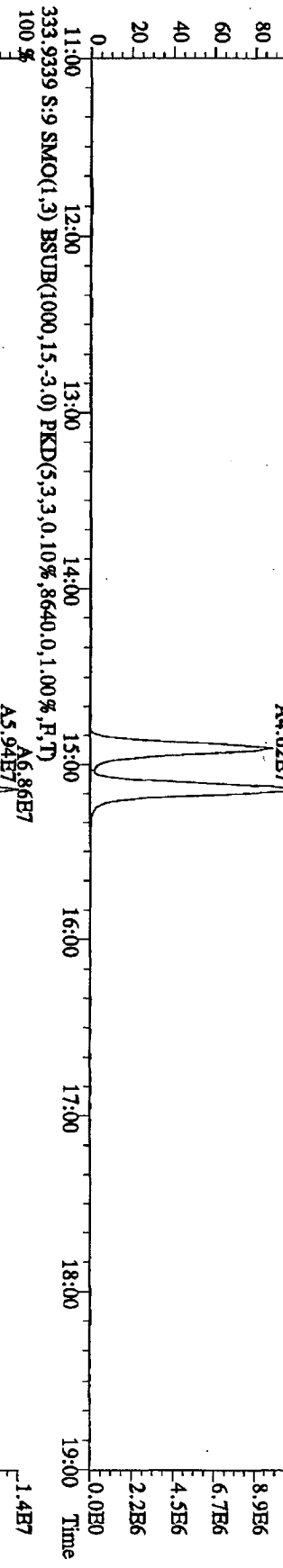
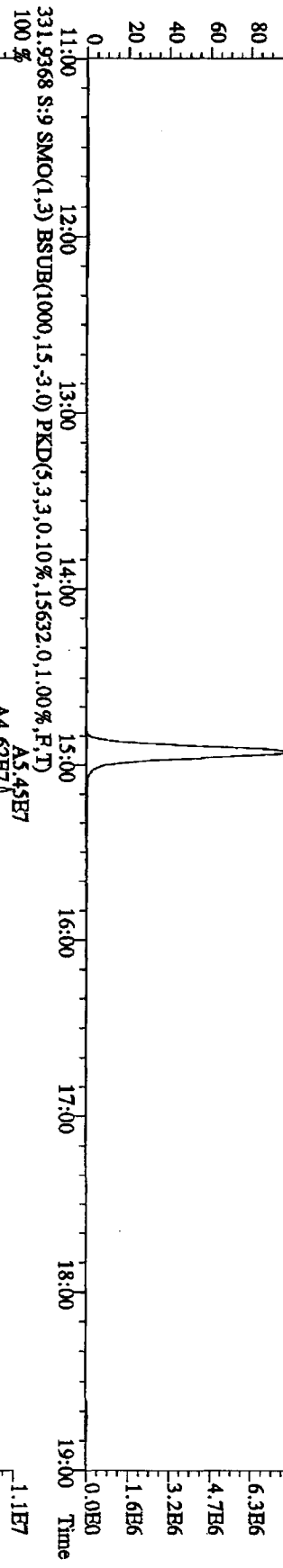
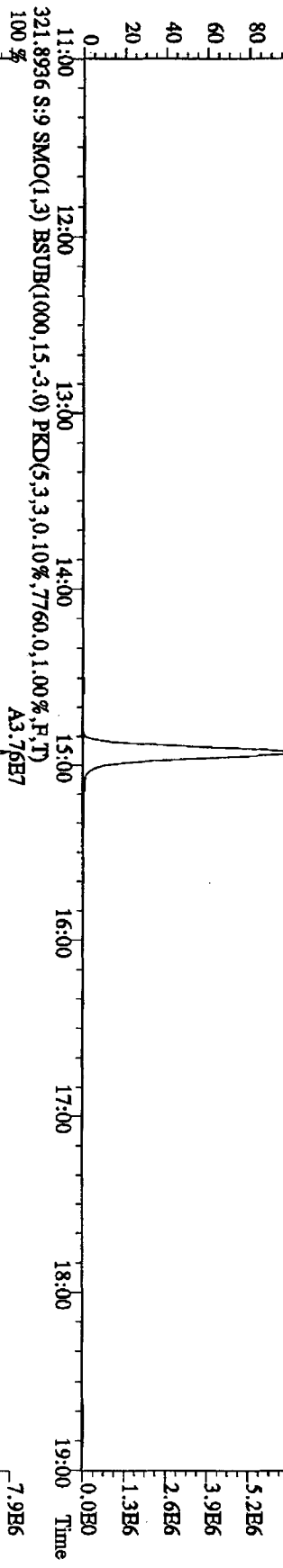
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC HI+ Voltage SIR 70SE  
Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RES  
375.8364 S:7 SMO(1,3) BSUR(1000,15,-3,0) PKD(5,3,100.00%,2000.0,1.00%,F,T)



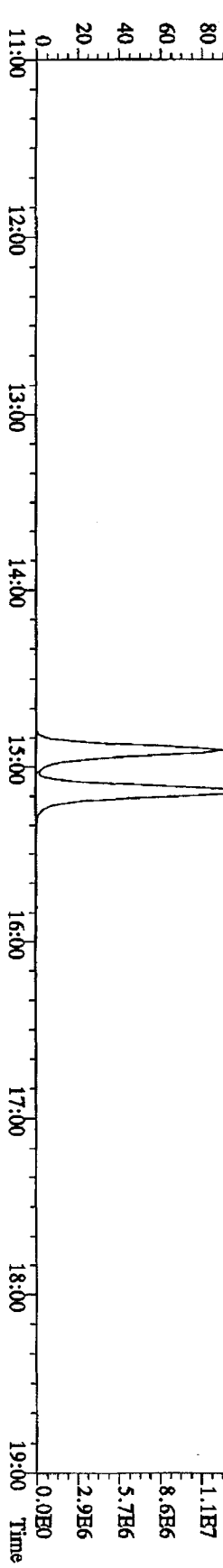
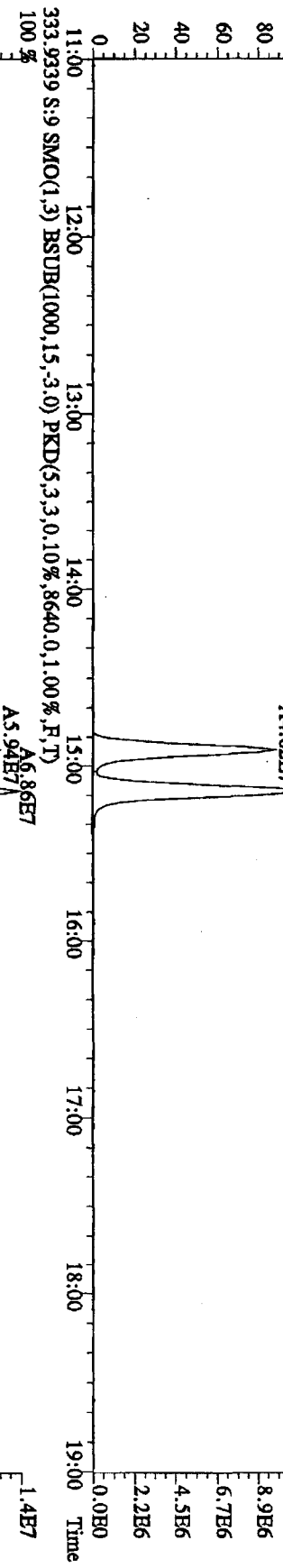
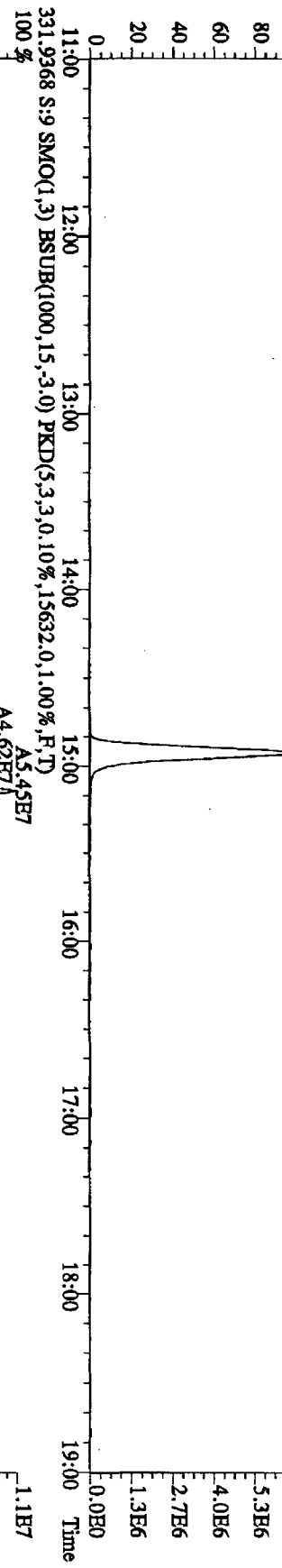
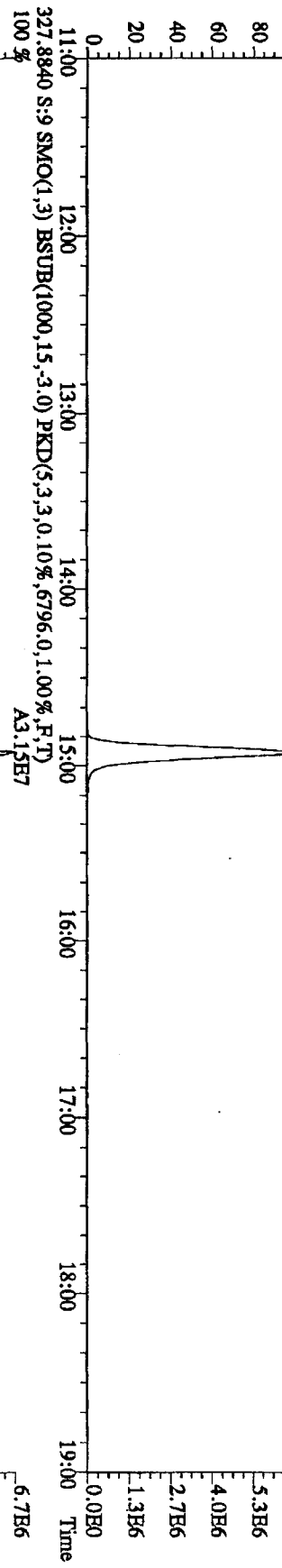
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE  
 Sample#9 Text: ST0726E :CS-4 10DXN337 Exp: DB25RES  
 303.9016 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6232,0,1,00%,F,T) 100%



File: 26TL105D2 #1-1242 Acq: 26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE  
 Sample#9 Text: ST0726E :CS-4 10DXN337 Exp: DB225RES  
 319,8965 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5792,0,1,00%,F,T)  
 100%

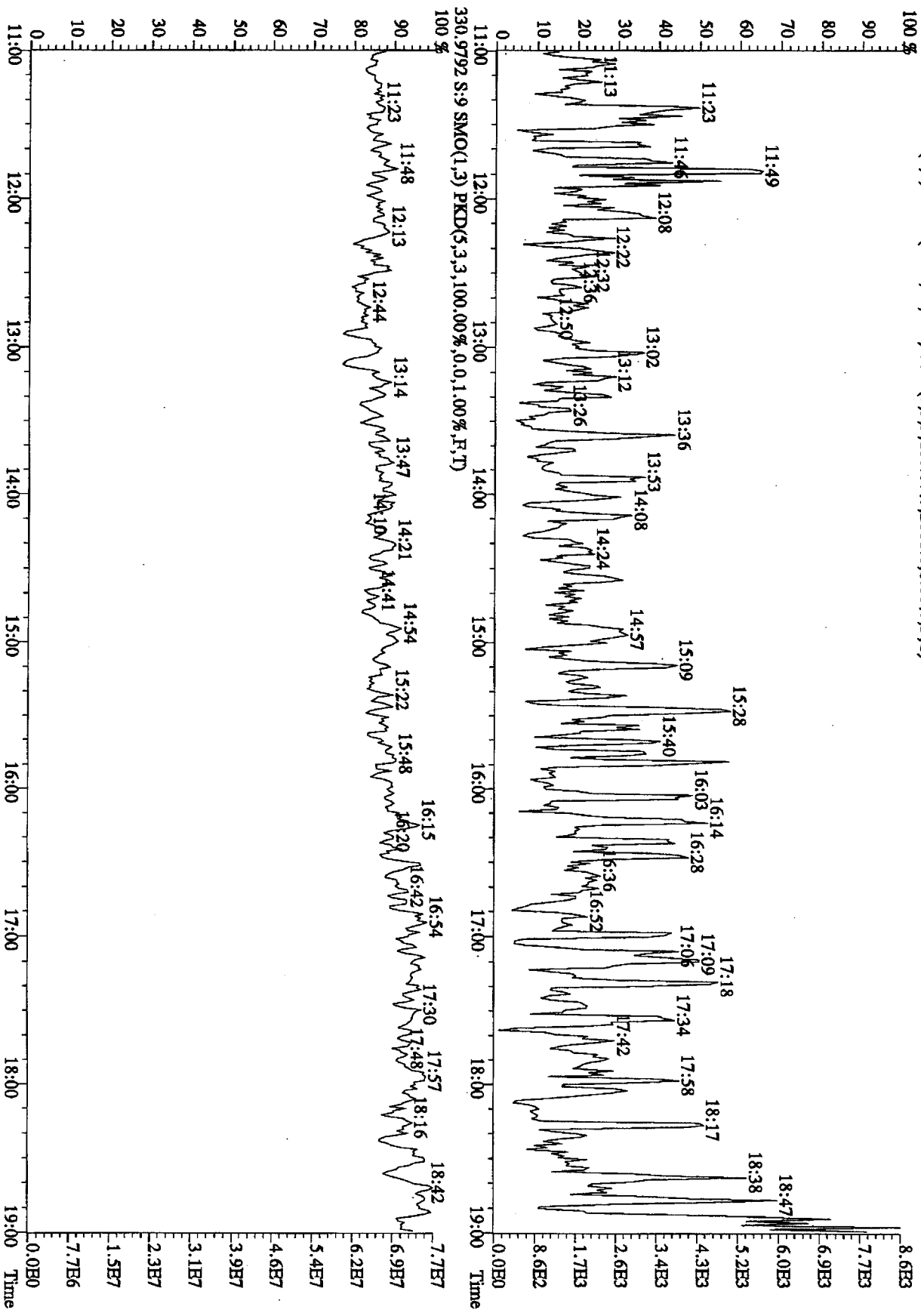


File: 26TL105D2 #1-1242 Acq: 26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE  
 Sample#9 Text: ST0726E :CS-4 10DXN337 Exp: DB25RES  
 327.8840 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,6796,0,1,00%,F,T)  
 100% A3.15E7

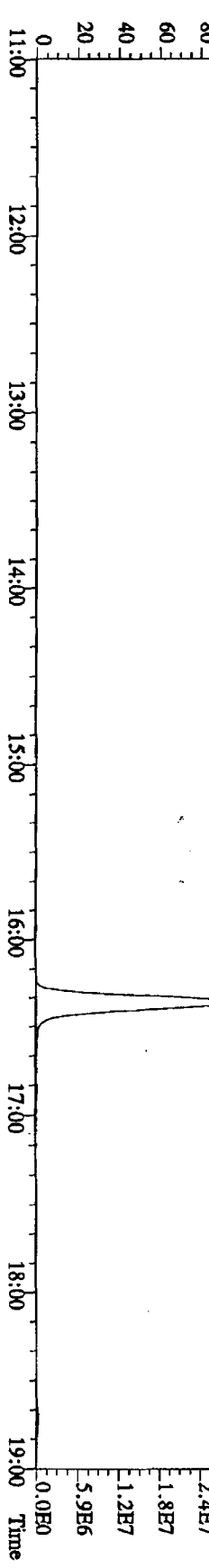
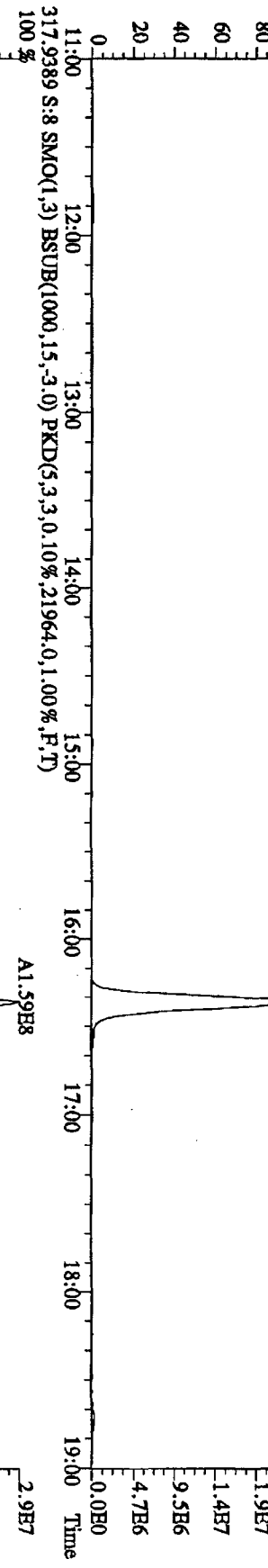
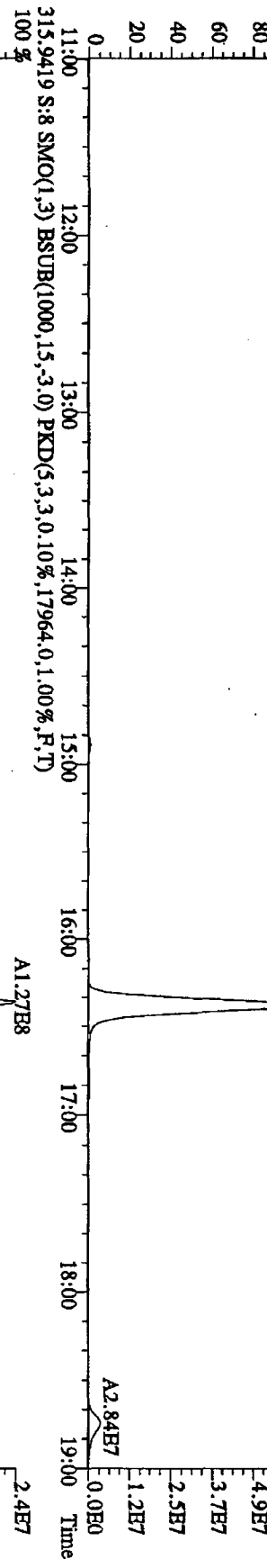
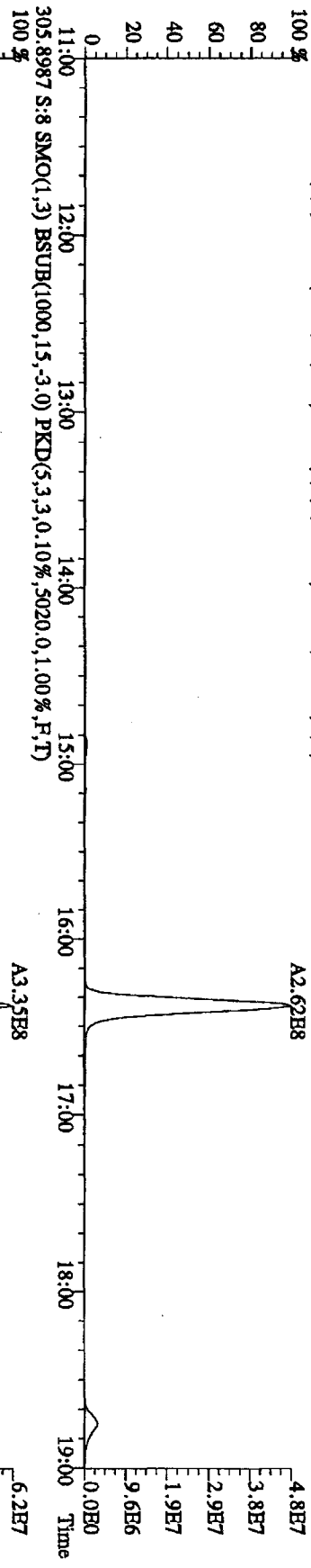




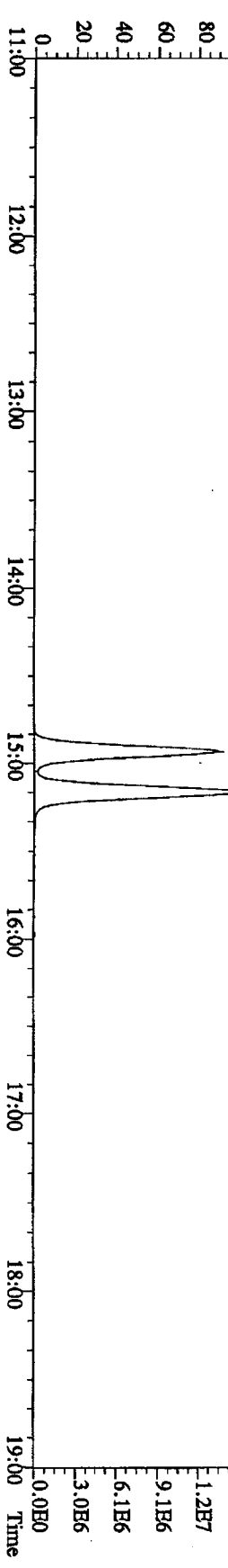
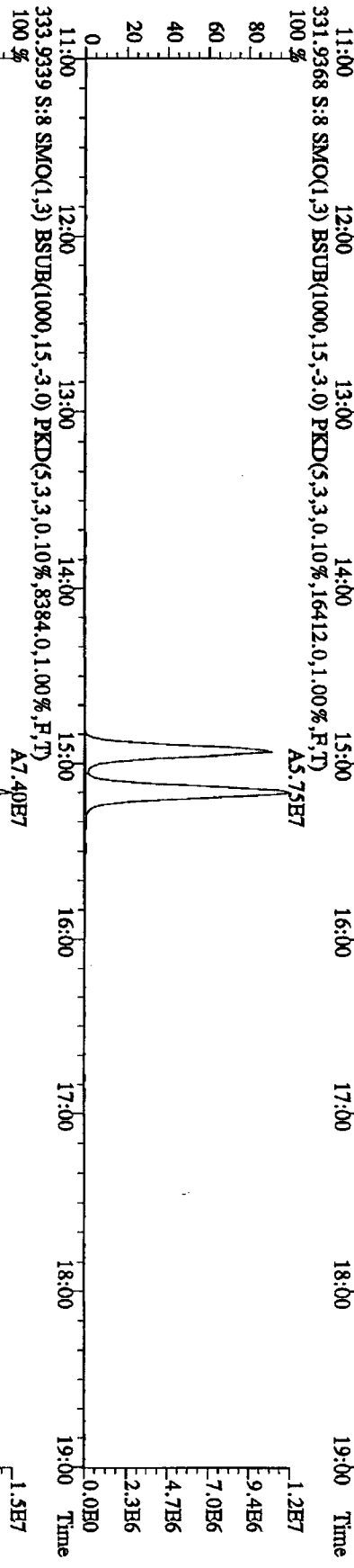
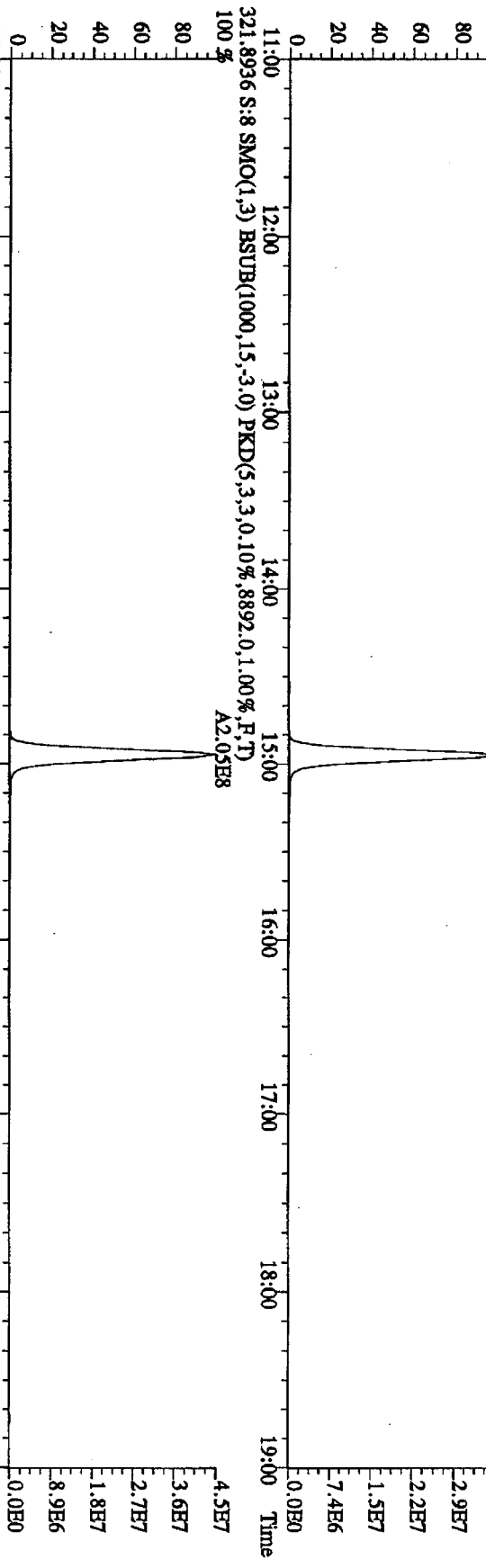
File: 26TL105D2 #1-1242 Acq: 26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SE  
 Sample#9 Text: ST0726E :CS-4 10DXN337 Exp: DB225RES  
 375.8364 S:9 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100,00%,2008,0,1,00%,F,T)



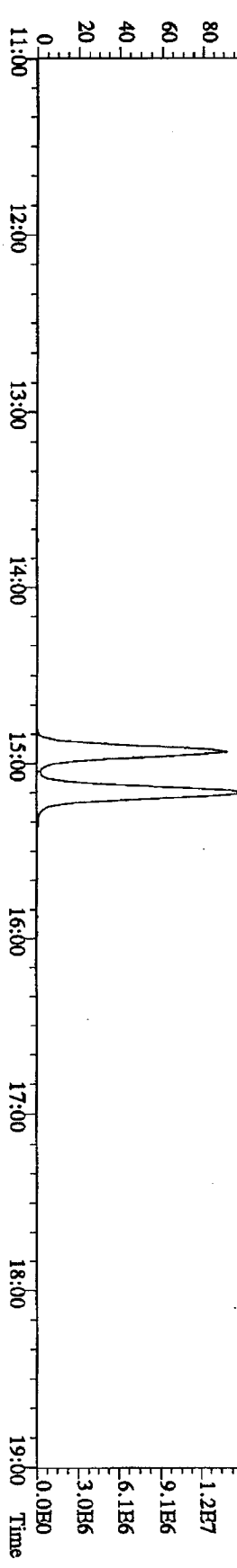
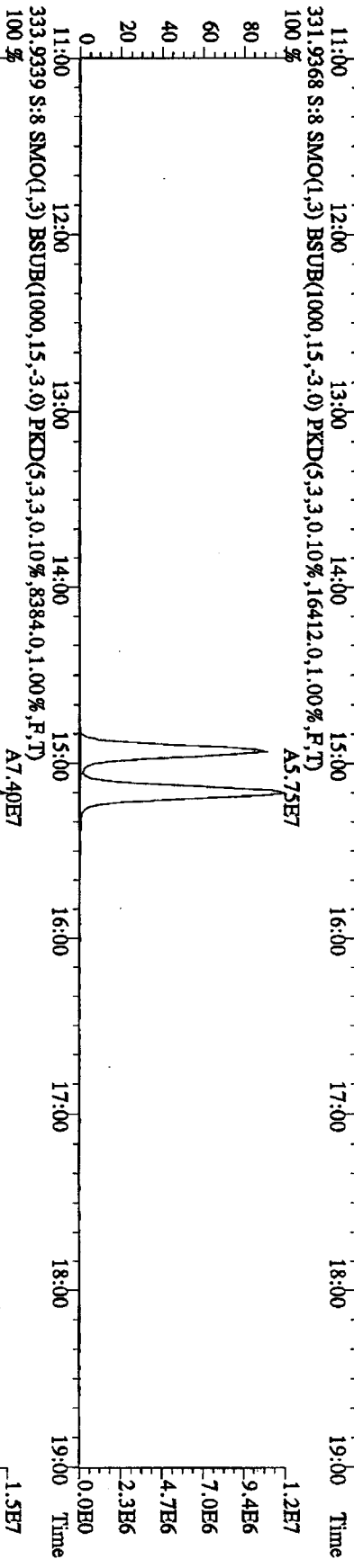
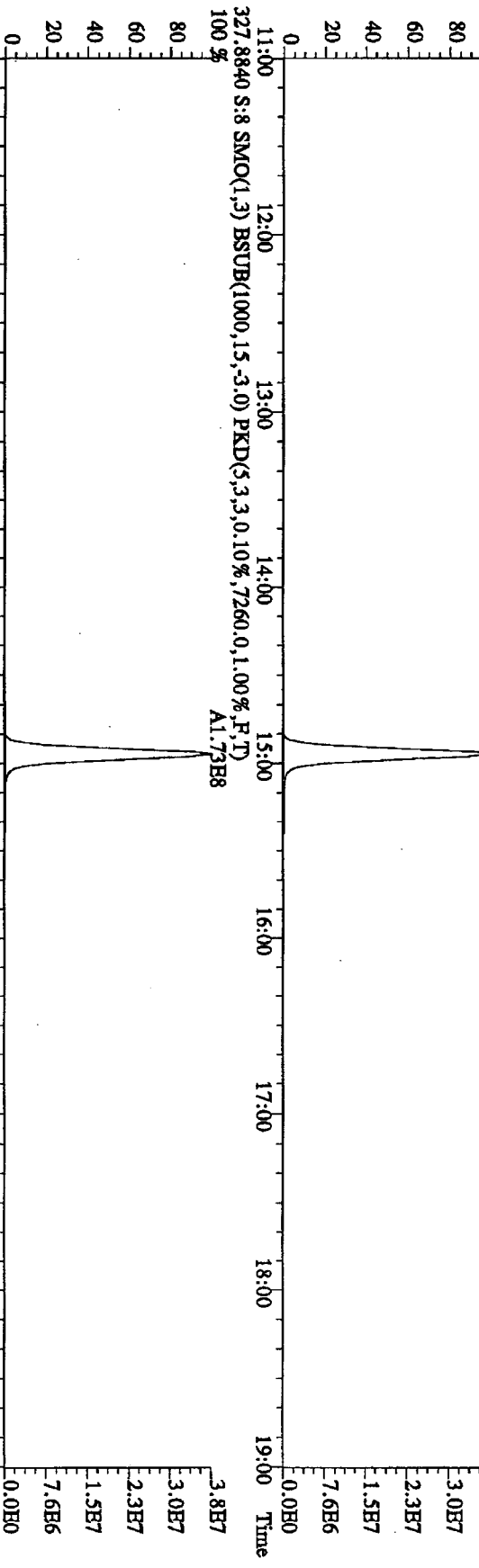
File:261L105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC HI + Voltage SIR 70SB  
 Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DH225RBS  
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3880,0,1,00%,F,T)  
 100 %



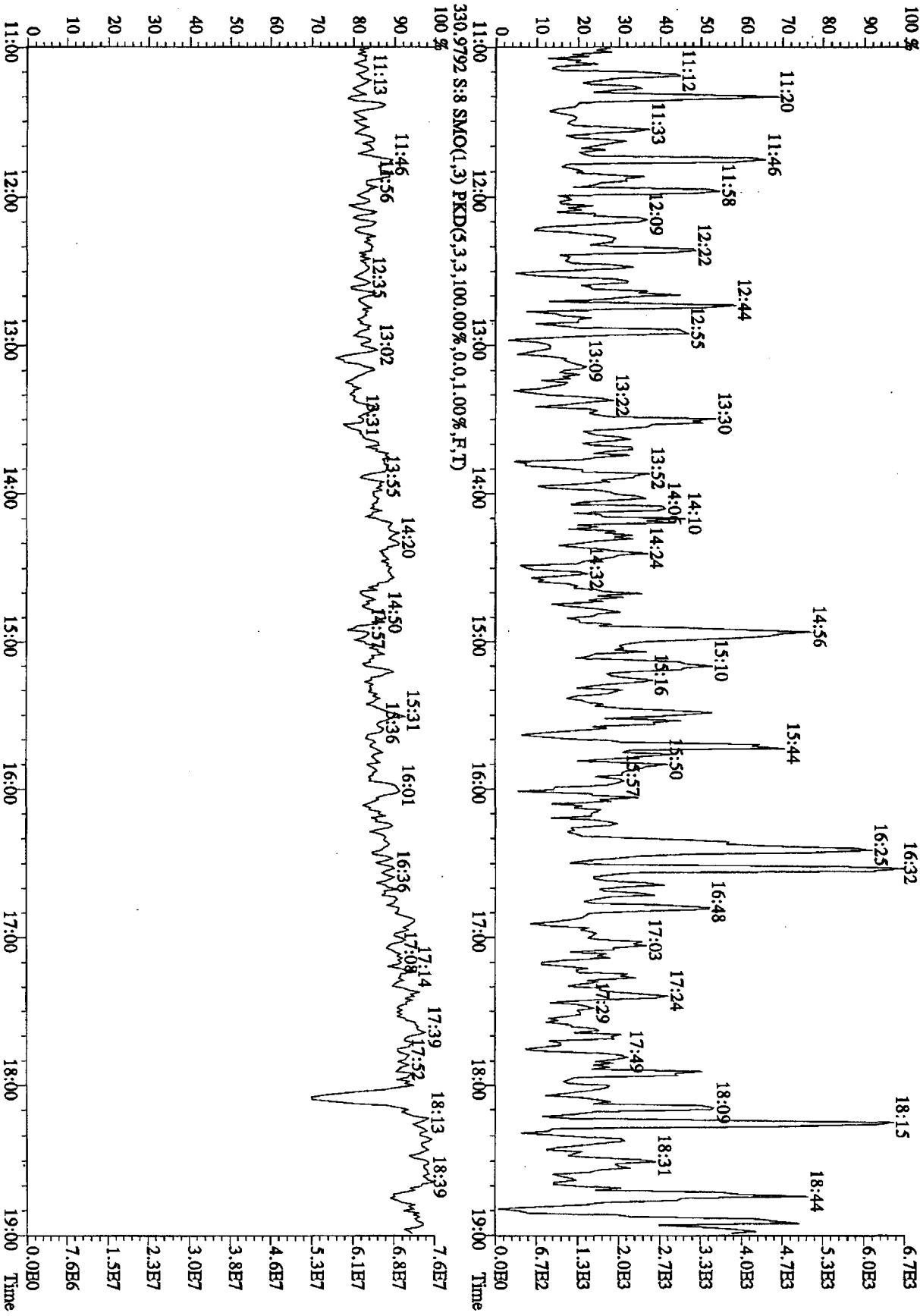
File:26TL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC HI+ Voltage SIR 70SB  
 Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB25RHS  
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6028.0,1.00%,F,T)  
 100% A1.68E8



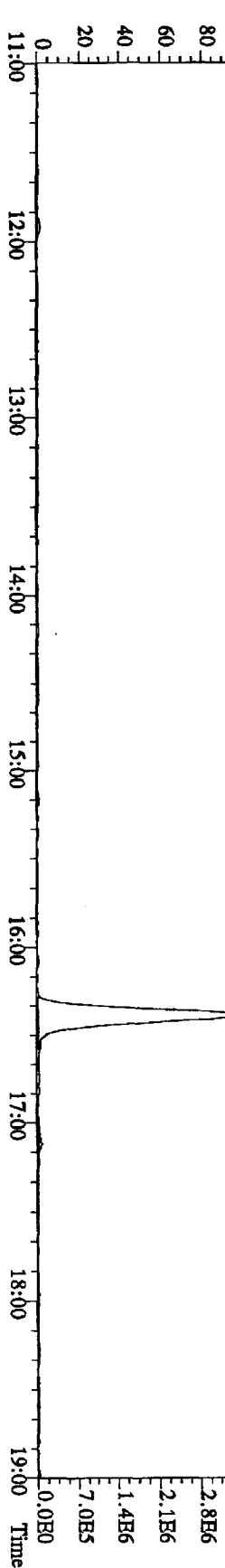
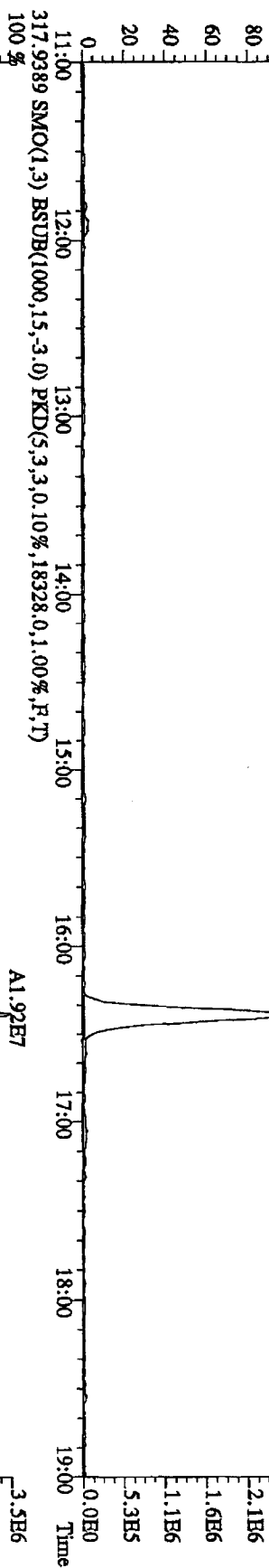
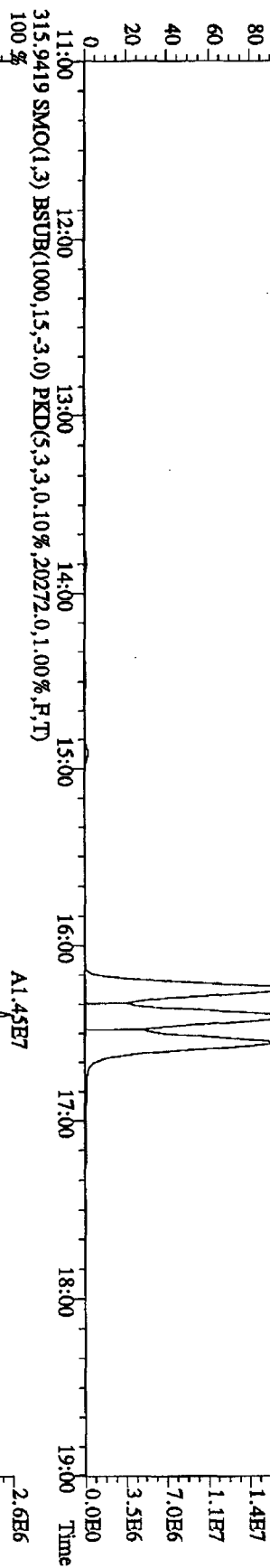
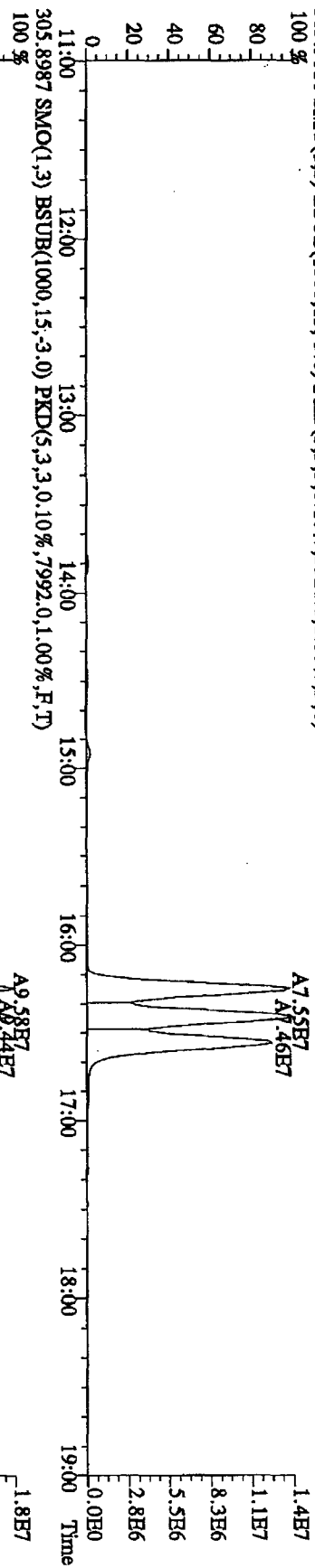
File:26I105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage 51V 70SE  
 Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES  
 327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7260,0.1,0.00%,F,T)  
 100% A1.73E8



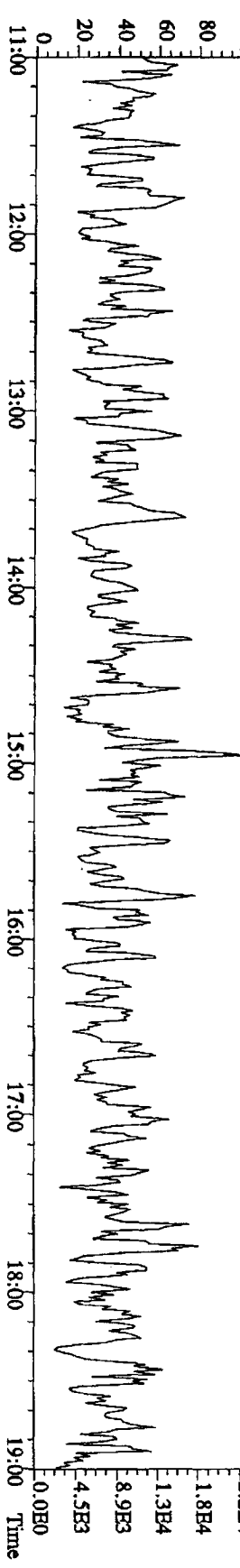
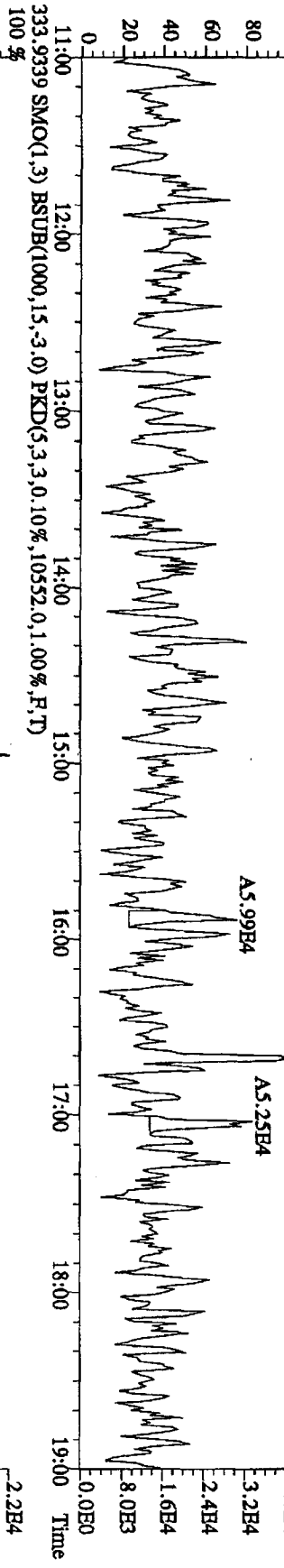
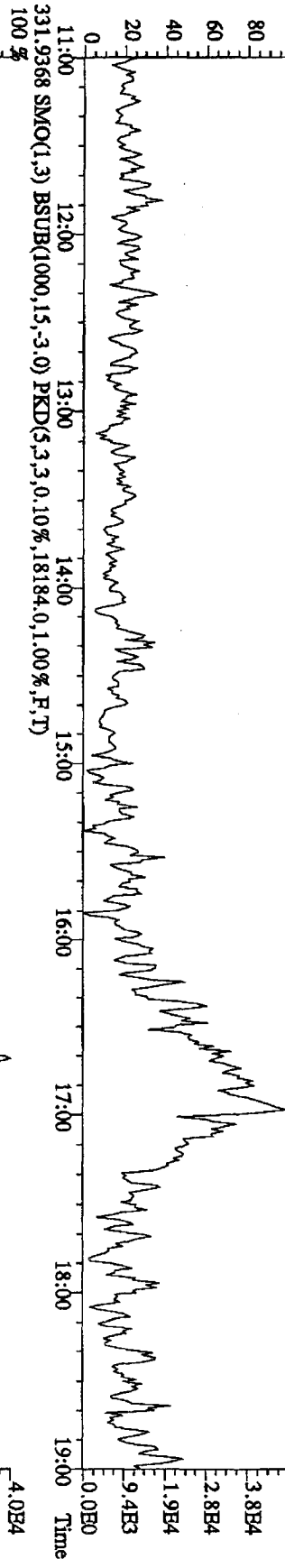
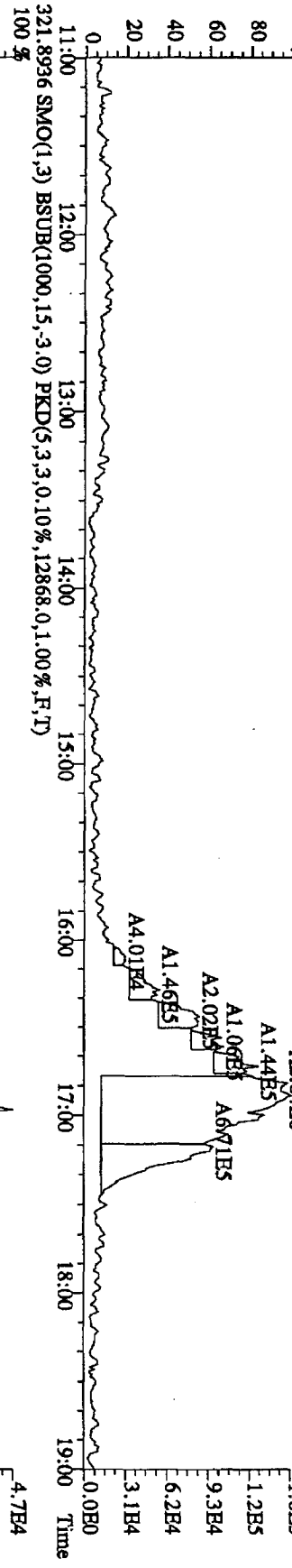
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 12:33:16 GC HI+ Voltage SIR 70SE  
 Sample#8 Text: ST0726D :CS-5 10DXN339 Exp: DB225RES  
 375.8364 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2080,0,1.00%,F,T)



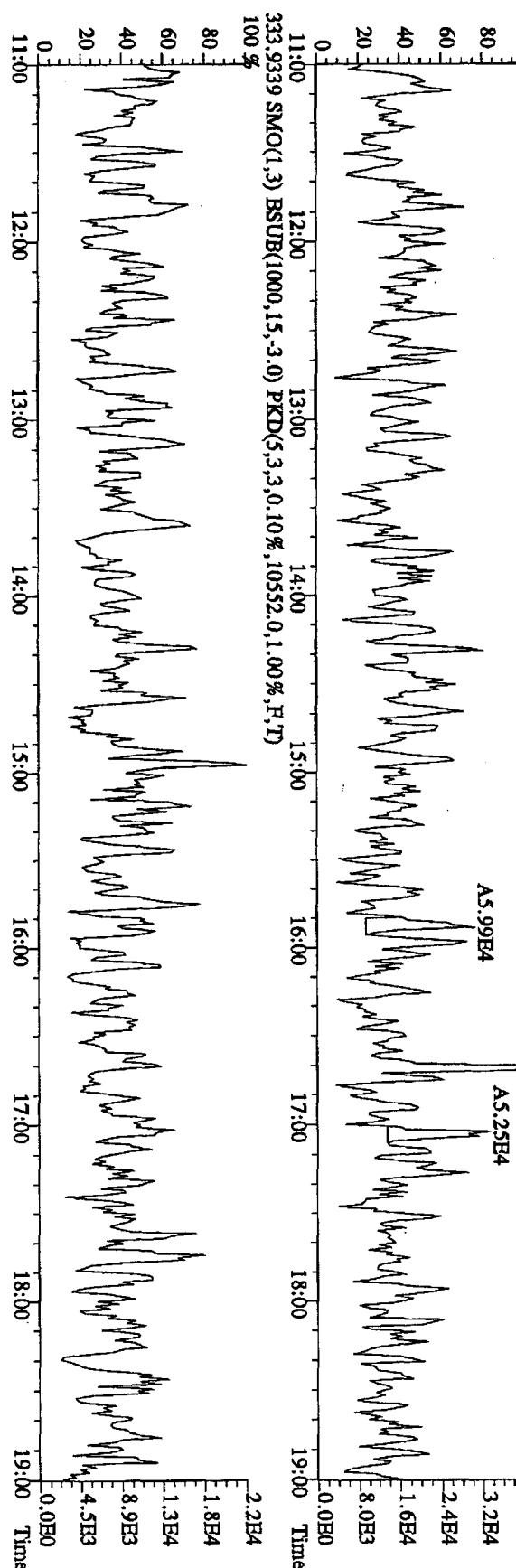
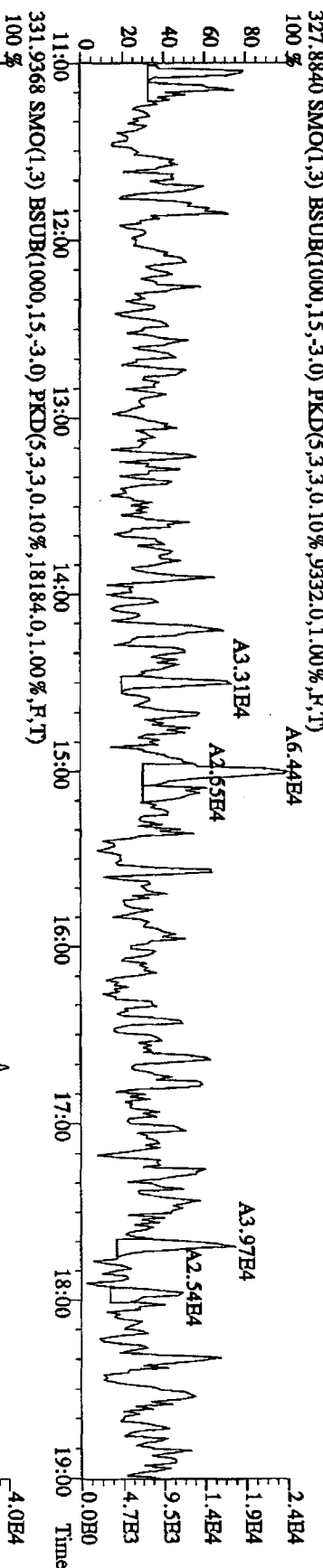
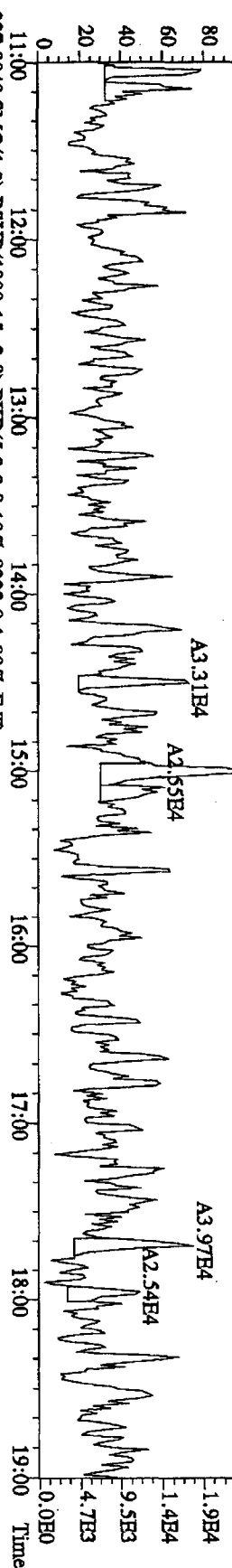
File:26T105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0726 :DB-225 CPSM 3732-06 Exp:DB225RES  
 303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5928.0,1.00%,F,T)  
 100 %



File:26L105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC HI+ Voltage SIR 70SB  
 Sample#1 Text:CP0726 :DB-225 CPM 3732-06 Exp:DH225RBS  
 319.8965 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9128,0.1,0.00%,F,T)  
 100 %

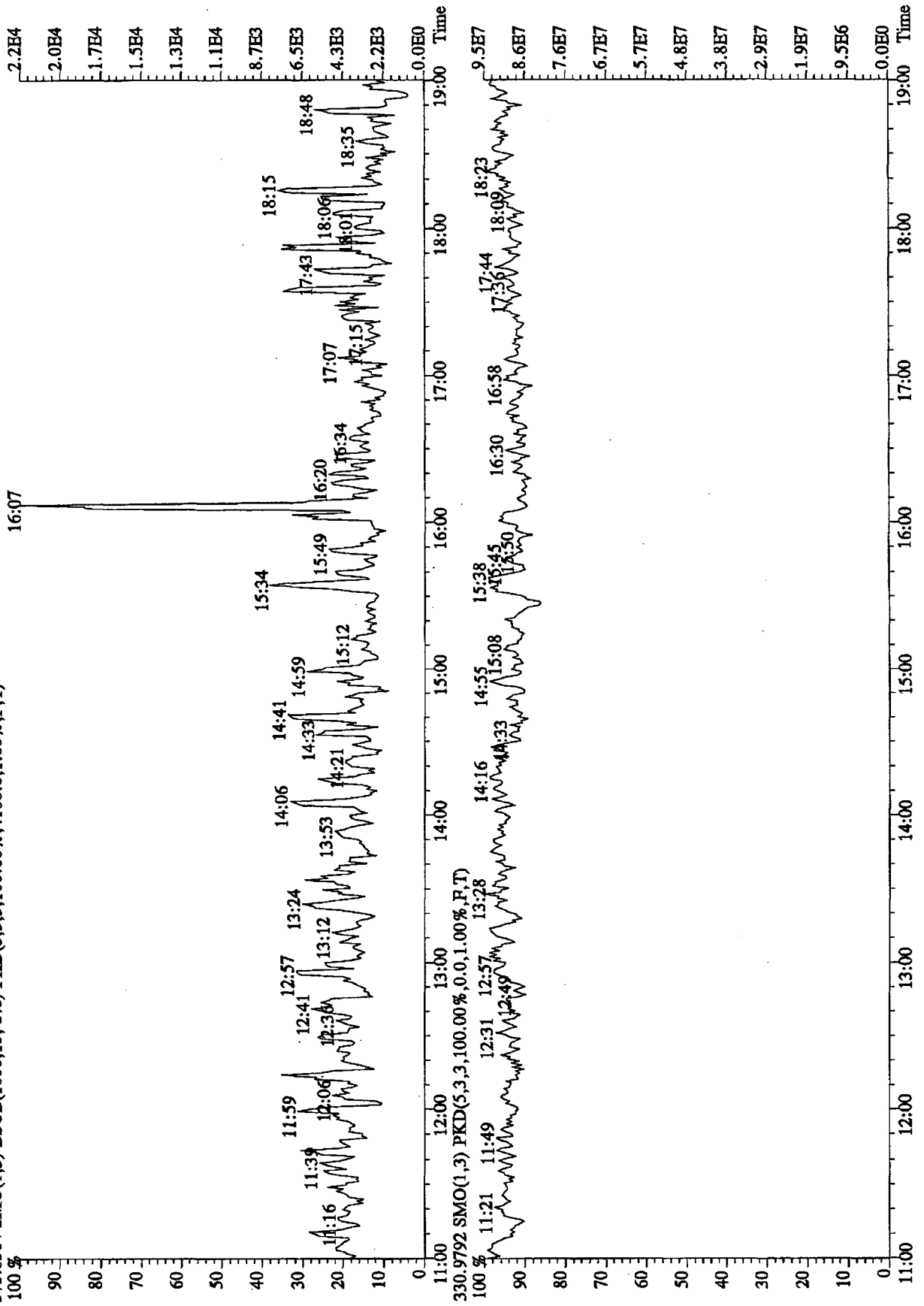


File:26JUL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC HI+ Voltage SIR 70SE  
 Sample#1 Text:CP0726 :DB-225 CPISM 3732-06 Exp:DB225RES  
 327.8840 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9332,0,1.00%,F,T)  
 100 %

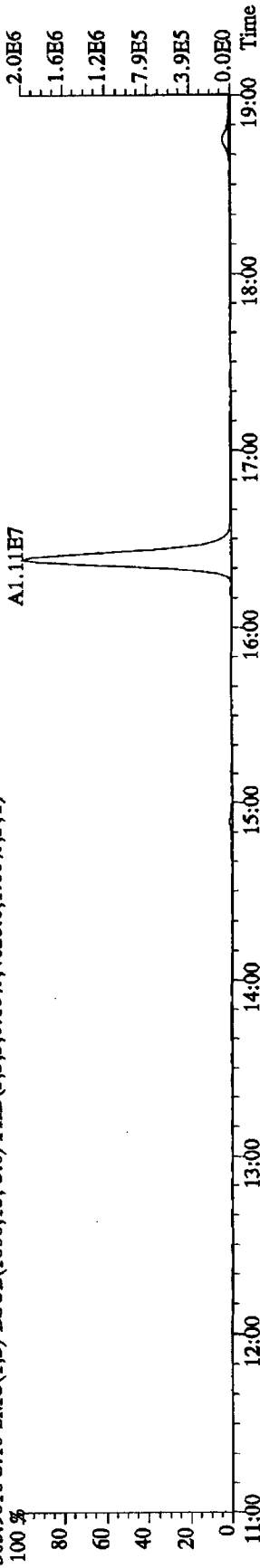




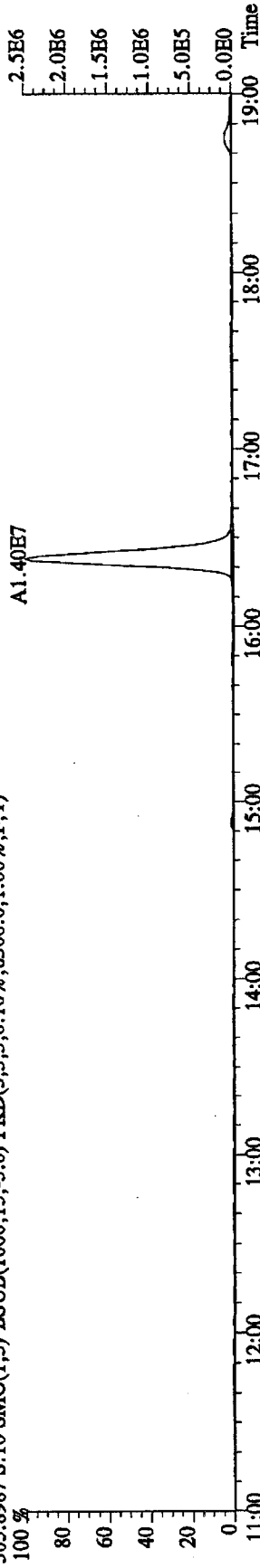
File:26JL105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC HI+ Voltage SIR 70SE  
Sample#1 Text:CP0726 :DB-225 CPSM 3732-06 Exp:DB225RES  
375.8364 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,4108.0,1.00%,F,T)



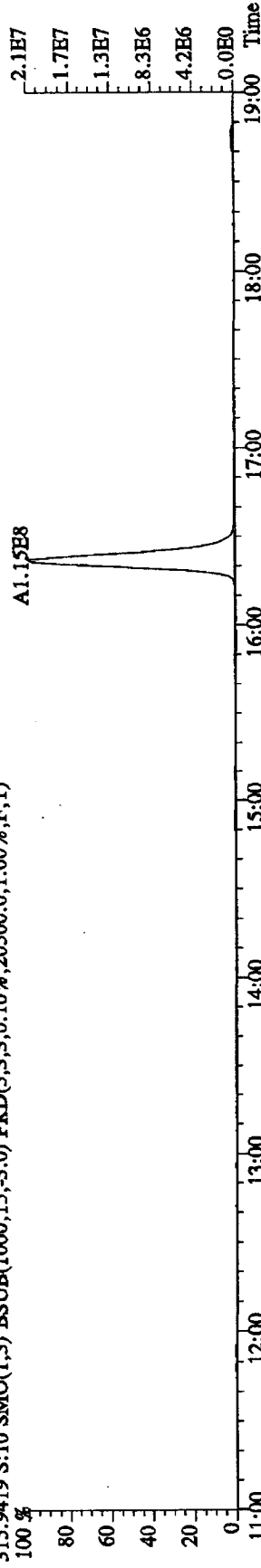
File: 26JL105D2 #1-1242 Acq: 26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE  
 Sample#10 Text: ST0726F 2nd Source 10DXN340 Exp: DB225RES  
 303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4628.0,1.00%,F,T)



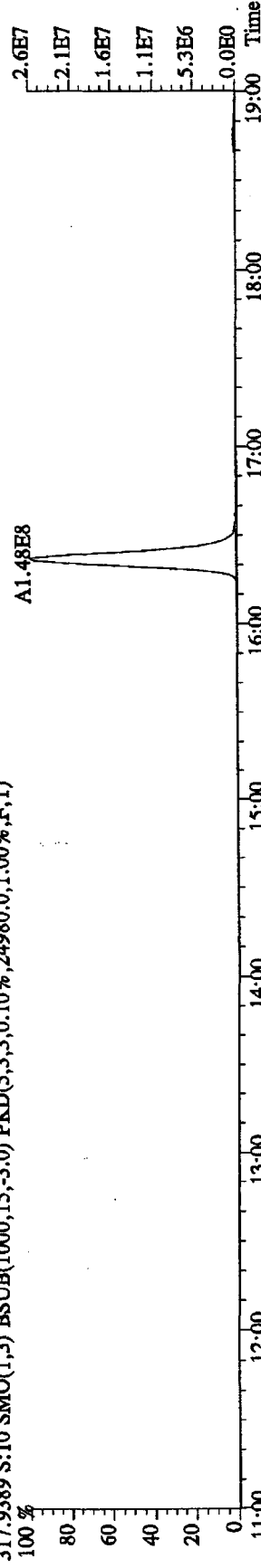
305.8987 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6308.0,1.00%,F,T)



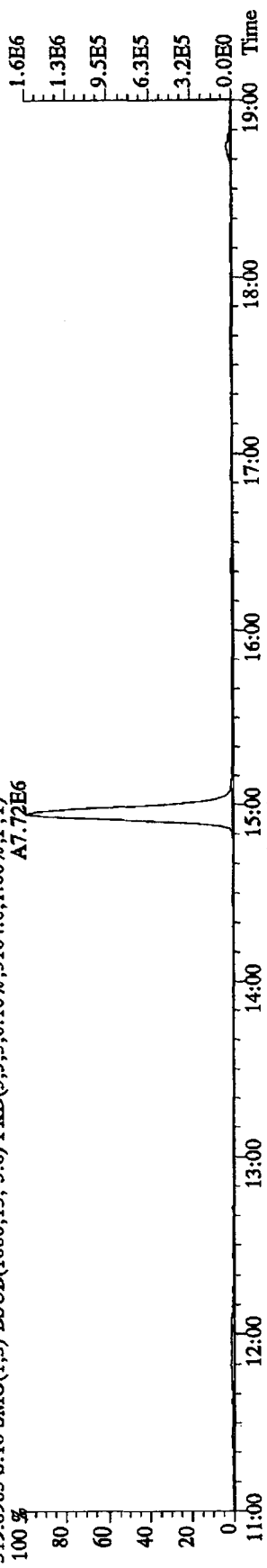
315.9419 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20500.0,1.00%,F,T)



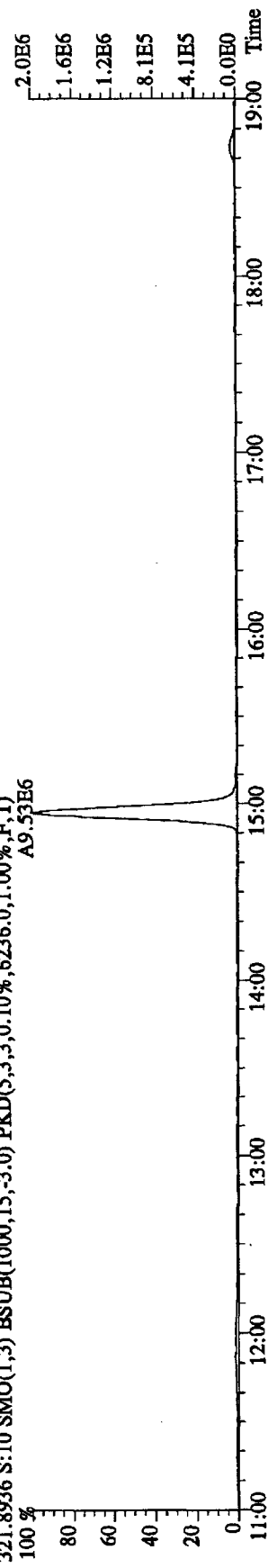
317.9389 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24980.0,1.00%,F,T)



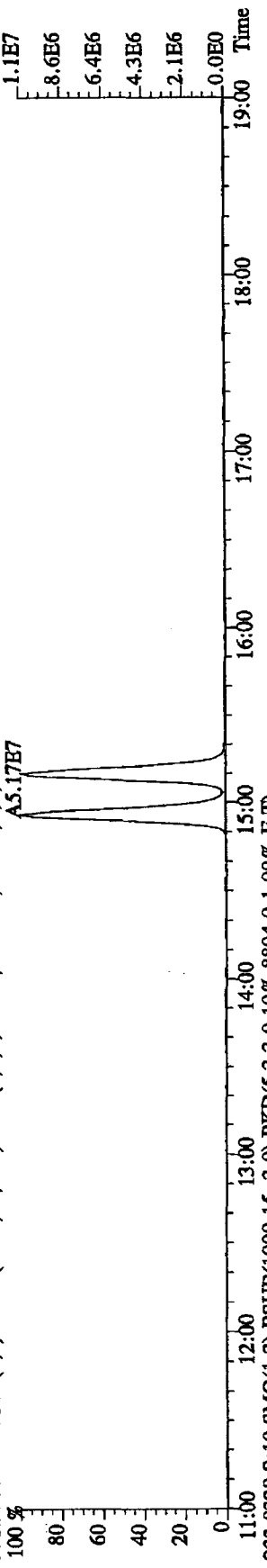
File: 26TL105D2 #1-1242 Acq: 26-JUL-2010 13:40:52 GC HI+ Voltage SIR 70SE  
 Sample#10 Text: ST0726F :2nd Source 10DXN340 Exp: DB225RES  
 319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5104.0,1.00%,F,T)  
 A7.72E6



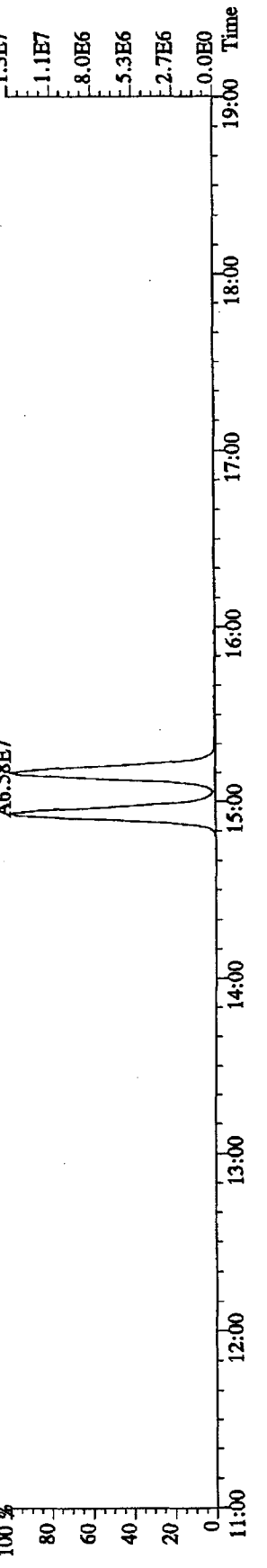
321.8936 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6236.0,1.00%,F,T)  
 A9.53E6



331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16480.0,1.00%,F,T)  
 A5.17E7



333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8804.0,1.00%,F,T)  
 A6.58E7

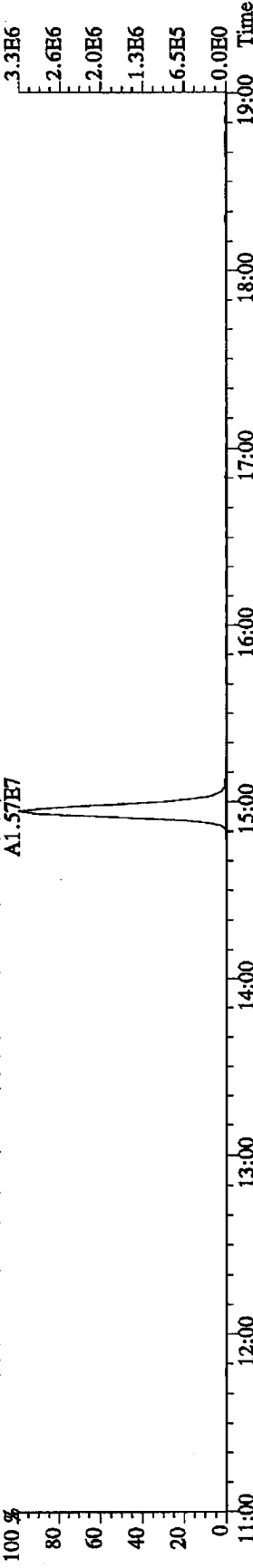


File:26IL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE

Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES

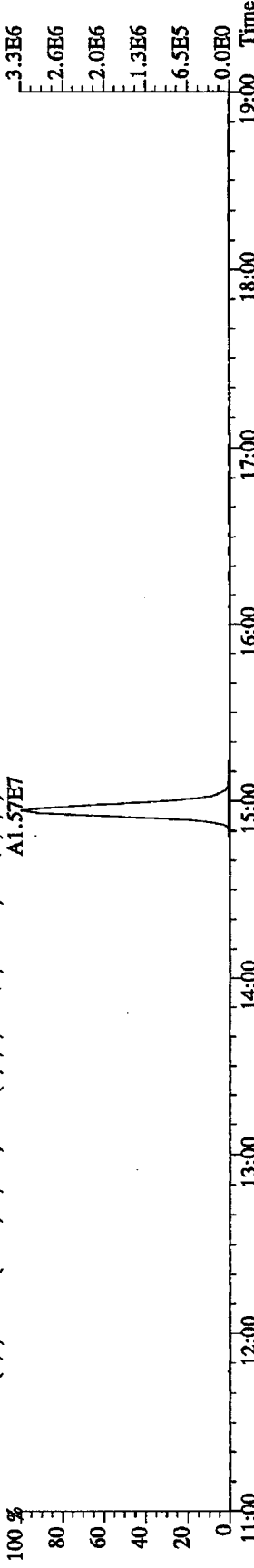
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6912.0,1.00%,F,T)

A1.57E7



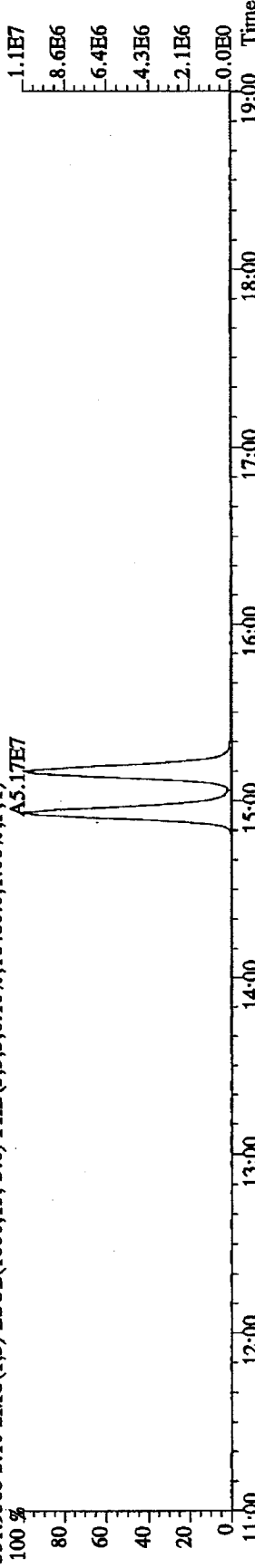
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6912.0,1.00%,F,T)

A1.57E7



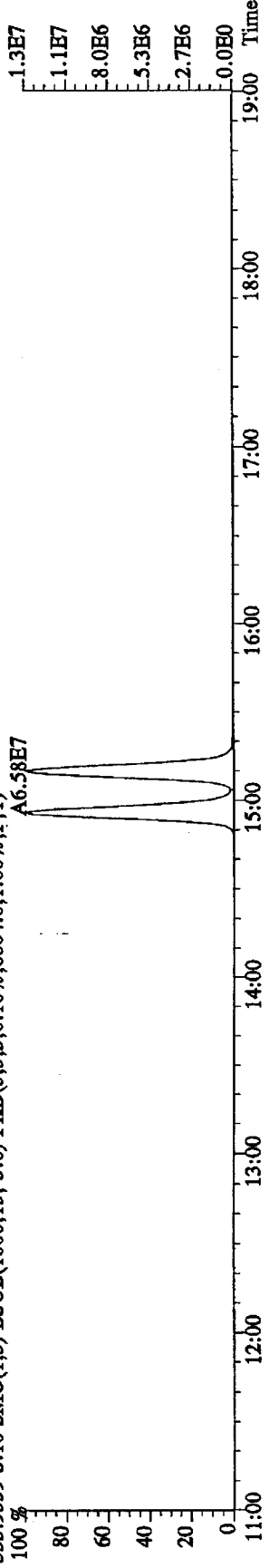
331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16480.0,1.00%,F,T)

A5.17E7

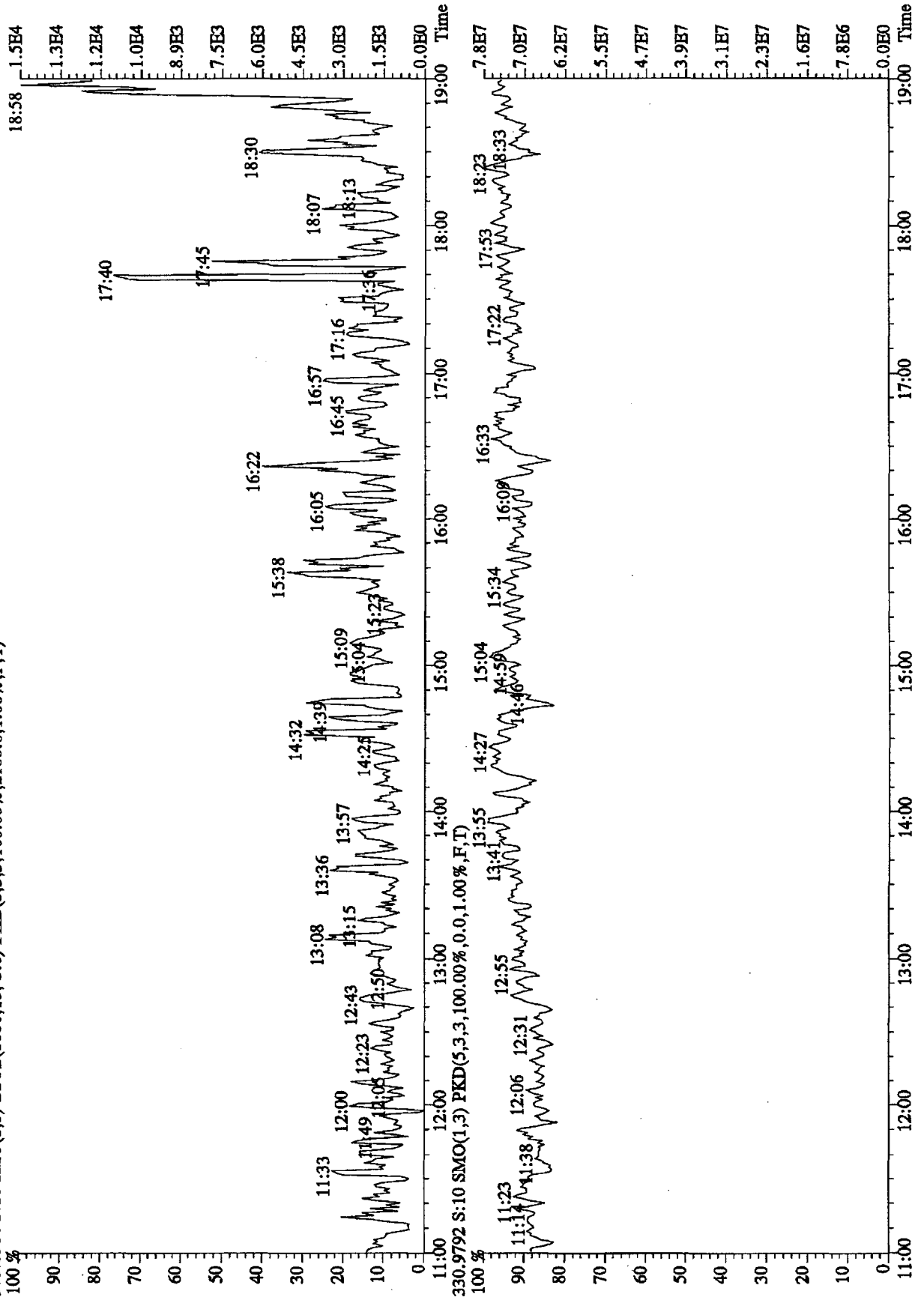


333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8804.0,1.00%,F,T)

A6.58E7



File:26L105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE  
 Sample#10 Text:ST0726F :2nd Source 10DXN340 Exp:DB225RES  
 375.8364 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2100.0,1.00%,F,T)



**Sample Extraction/Preparation Log**  
**Copies and Checklists**

RQC058

TestAmerica Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 10/13/10  
Time: 12:02:03

|     |     |     |     |
|-----|-----|-----|-----|
| LEV | LEV | LEV | LEV |
| 1   | 2   | 1   | 2   |
| Y   | Y   | Y   | Y   |
| Y   | Y   | Y   | Y   |
| -   | -   | -   | -   |

Blank  
Check  
MS/MSD

Weights/Volumes  
Spike & Surrogate Worksheet  
Vial contains correct volume  
Labels, greenbars, worksheets  
computer batch: correct & all match  
Anomalies to Extraction Method

Expanded Deliverable  
COC Completed  
Bench Sheet Copied  
Package Submitted to Analytical Group  
Bench Sheet Copied per COC

Extractionist: 403162 erica X. larson

Concentrationist: 000047 Tatyana Lopuga

\*\*\*\*\*  
\* QC BATCH: 0284223 \*  
\* PREP DATE: 10/11/10 13:00 \*  
\* COMP DATE: 10/13/10 17:00 \*  
\*\*\*\*\*

Reviewer/Date: / 10/13/10

Dioxins/Furans, HRGC/HRMS (TO-9)  
SOXHLET (NONE, Na2SO4)

| EXTR      | ANL      | LOT#,MSRUN#/<br>DUE WORK ORDER | TEST<br>FLGS | EXT | MTH | MATRIX | INIT/VOL             | PH"S | INIT | ADJ1 | ADJ2 | EXTRACTION | VOL   | EXCHANGE | VOL | SOLVENTS            | SPIKE STANDARD/<br>SURROGATE ID |
|-----------|----------|--------------------------------|--------------|-----|-----|--------|----------------------|------|------|------|------|------------|-------|----------|-----|---------------------|---------------------------------|
| 11/06/10  | 10/15/10 | G0J090500-007<br>L78WG-1-AA    | R            | 11  | IK  | AIR    | 1.0sample<br>20.00uL | NA   | NA   | NA   | NA   | TOLUENE    | 700.0 |          | .0  | 2.0ML/10DXN463/8290 | IS                              |
| COMMENTS: |          |                                |              |     |     |        |                      |      |      |      |      |            |       |          |     |                     |                                 |
| 11/06/10  | 10/15/10 | G0J090500-008<br>L78WH-1-AA    | R            | 11  | IK  | AIR    | 1.0sample<br>20.00uL | NA   | NA   | NA   | NA   | TOLUENE    | 700.0 |          | .0  | 2.0ML/10DXN463/8290 | IS                              |
| COMMENTS: |          |                                |              |     |     |        |                      |      |      |      |      |            |       |          |     |                     |                                 |
| 11/06/10  | 0/00/00  | G0J110000-223<br>L79L2-1-AAB   |              | 11  | IK  | AIR    | 1.0sample<br>20.00uL | NA   | NA   | NA   | NA   | TOLUENE    | 700.0 |          | .0  | 100UL/10DXN429/TO-9 | SURR                            |
| COMMENTS: |          |                                |              |     |     |        |                      |      |      |      |      |            |       |          |     |                     |                                 |
| 11/06/10  | 0/00/00  | G0J110000-223<br>L79L2-1-ACC   |              | 11  | IK  | AIR    | 1.0sample<br>20.00uL | NA   | NA   | NA   | NA   | TOLUENE    | 700.0 |          | .0  | 100UL/10DXN148/8290 | NS                              |
| COMMENTS: |          |                                |              |     |     |        |                      |      |      |      |      |            |       |          |     |                     |                                 |
| 11/06/10  | 0/00/00  | G0J110000-223<br>L79L2-1-ADL   | R            | 11  | IK  | AIR    | 1.0sample<br>20.00uL | NA   | NA   | NA   | NA   | TOLUENE    | 700.0 |          | .0  | 100UL/10DXN148/8290 | NS                              |
| COMMENTS: |          |                                |              |     |     |        |                      |      |      |      |      |            |       |          |     |                     |                                 |

R = RUSH  
E = EPA 600  
M = CLIENT REQ MS/MSD

C = CLP  
D = EXP. DEL)

NUMBER OF WORK ORDERS IN BATCH: 5

**TestAmerica West Sacramento**  
**High Resolution Prep Log**  
**Dioxin/Furan Air Extraction**

Batch: 0284223  
 MS Run #: \_\_\_\_\_  
 Prep Date: 10/11/2010

Shared QC Batch: \_\_\_\_\_  
 Shares QC With: \_\_\_\_\_

Internal COC:  
 Delivered to Inst.: 10/13/10  
 Inst Receipt: \_\_\_\_\_

Box # 79

Method: IK TO-9  
 Matrix: S AIR  
 Extraction: 11 SOXHLET (NONE, Na2SO4)  
 QC: 3W AMBIENT AIR TESTING  
 SAC: IK - S - 11 - 3W

Soxhlet time on: 16:45 (10/10/10) Soxhlet time off: 9:45 (10/12/10) ECF

| Reagent                      | Supplier | Lot #    |
|------------------------------|----------|----------|
| Toluene                      | Baker    | J17N73   |
| Hexane                       | Baker    | J27E37   |
| H2SO4                        | Baker    | NA       |
| 20% DCM:Hexane               | NA       | 3630-77A |
| 65% DCM:Hexane               | NA       | 3630-77E |
| 1:1 DCM:Cyclohexane          | NA       | NA       |
| 75:20:5 DCM:Hexane:Benzenene | NA       | NA       |
| Silica Gel                   | NA       | 4022-8A  |
| Acid Alumina                 | MP 890   | 79       |
| 5% Carbon:Silica Gel         | NA       | NA       |

| Sample ID       | Suff | Work Order | Extraction Hold Time Expires | Sample size | Final Volume |          | Analysis Hold Time Expires | Extraction ID | Round Bottom ID | Rotovap ID |
|-----------------|------|------------|------------------------------|-------------|--------------|----------|----------------------------|---------------|-----------------|------------|
|                 |      |            |                              |             | 20uL         | Other    |                            |               |                 |            |
| G0J090500 - 7   |      | L78WG1AA   | 11/6/2010                    | 1.0         | ✓            |          | 11/25/2010                 |               |                 | 5          |
| G0J090500 - 8   |      | L78WH1AA   | 11/6/2010                    | 1.0         | ✓            | T.L.     | 11/25/2010                 |               |                 | 7          |
| G0J110000 - 223 | B    | L79L21AA   | 11/6/2010                    | 1.0         | ✓            | 10/13/10 | 11/25/2010                 | 10/13/10      |                 | 5          |
| G0J110000 - 223 | C    | L79L21AC   | 11/6/2010                    | 1.0         | ✓            |          | 11/25/2010                 |               |                 | 7          |
| G0J110000 - 223 | L    | L79L21AD   | 11/6/2010                    | 1.0         | ✓            |          | 11/25/2010                 |               |                 | 6          |

\* See attached sheet for sample volumes recorded from scale

Comments/NCMs: QC Media: P090910 ECF 10/10/10

| Internal Standard All Samples              | ID                                | Spike Exp Date: | Spiked By: | Witnessed By: | Date:    |
|--|-----------------------------------|-----------------|------------|---------------|----------|
| LCS/LCSDAMS-MS-10/11/10                    | 2.0mL/10DXN483/6290/1613 Daily IS | 12/16/10        | ECF        | JZ            | 10/11/10 |
| Pre-Spike Standard MB/697-699 ECF 10/11/10 | 100uL/10DXN148/6290/1613 Daily NS | 5/26/11         | ECF        | JZ            | 10/11/10 |
| Recovery Standard All Samples              | 200uL/10DXN429/TO-9 Daily SALT    | 7/19/11         | ECF        | JZ            | 10/11/10 |
| Soxhlet Extraction Analysts/Date           | 22.0uL 10DXN 2.25                 | 6/16/2011       | T.L.       |               | 10/13/10 |
|  | ECF 10/11/10                      |                 |            |               |          |

Split/Archive Analyst/Date 5.0mL  
 1/2 ML/10/13/10  
 Option C Analyst/Date  
 IFB Analyst/Date  
 D2 Analyst/Date



## Preparation Data Review Checklist

Prep Batch(es) 0294223

Test: PO-9

Prep Date: 10/11/10

Holding Times: 11/6/10 NCM: Y (N)

| A. Spike Witness/Batch setup  | Spike Witness | Reviewer |
|---|---------------|----------|
| 1. Holding times checked? NCMs filed as appropriate   | ✓             | ✓        |
| 2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)                                 | ✓             | ✓        |
| 3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.      | ✓             | NA       |
| 4. Worksheets have been checked for required spiking compounds                              | ✓             | ✓        |
| 5. Spiking volumes are correctly documented   | ✓             | ✓        |
| 6. Std ID numbers on spike labels match numbers on bench sheet                              | ✓             | NA       |
| 7. Expiration dates have been checked   | ✓             | ✓        |
| 8. Calibration expiration dates on pipettors have been checked                              | ✓             | NA       |
| 9. Spiker and spike witness have signed and dated bench sheet                               | ✓             | ✓        |
| <b>B. Weights and Volumes</b>   |               |          |
| 1. Recorded weights are in anticipated range  | NA            | ✓        |
| 2. Balance upload or raw data for weights is included                                       | NA            | ✓        |
| 3. Weights and volumes have been transcribed correctly to LIMS.                             | NA            | ✓        |
| 4. Weights are not targeted to meet exact weights.  | NA            | ✓        |
| 5. Each weight or volume measurement is a unique record (no dittos or line downs)           | NA            | ✓        |
| <b>C. Standards and Reagents</b>  |               |          |
| 1. Lot numbers for all reagents, including clean up stages, are recorded.                   | NA            | ✓        |
| 2. Are dates and analysts for cleanups recorded?  | NA            | ✓        |
| 3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed? | NA            | ✓        |
| <b>D. Documentation</b>   |               |          |
| 1. Are all nonconformances documented appropriately?  | NA            | ✓        |
| 2. QuantIMs entry correct, including dates and times.                                       | NA            | ✓        |
| 3. Are all fields completed?  | NA            | ✓        |

Spike witness: J2

Date: 10/11/10

2<sup>nd</sup> Level Reviewer: [Signature]

Date: 10/13/10

Comments:

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**Data Checklist**  
**HRGCMS/LRGCMS Analyses**

Batch #: 0284223 Method ID: Dioxins/Furans, HRGC/HRMS (TO-9)

**DB-5**  
Data Analyst: MO  
Date initiated: 10/18/10  
Reviewer: MWJ  
Date reviewed: 10/20/2010

**DB-225**  
Data Analyst: MB  
Date initiated: 10/19/10  
Reviewer: MWJ  
Date reviewed: 10/20/2010

**QA/QC verification:**

|   | <u>Initiated</u><br><u>DB-5</u>     | <u>Reviewed</u><br><u>DB-5</u>      | <u>Initiated</u><br><u>DB-225</u><br>(High Res Only) | <u>Reviewed</u><br><u>DB-225</u><br>(High Res Only) |
|---|-------------------------------------|-------------------------------------|--|---|
| -Daily standard package(s) present?                       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Method Blank present?                                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u>  | <input checked="" type="checkbox"/>                 |
| -LCS/DCS copy present and meets native recovery criteria? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u>  | <u>NA</u>   |
| -Internal standard recoveries within limits?*             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Ion ratios within + 15% of theoretical values?           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Other QC (Dup,MS,SD) within specs?*                      | <u>NA</u>                           | <u>NA</u>                           | <u>NA</u>  | <u>NA</u>   |

**Sample Analysis:**

|   | <u>Initiated</u><br><u>DB-5</u>     | <u>Reviewed</u><br><u>DB-5</u>      | <u>Initiated</u><br><u>DB-225</u><br>(High Res Only) | <u>Reviewed</u><br><u>DB-225</u><br>(High Res Only) |
|---|-------------------------------------|-------------------------------------|--|---|
| -Correct sample aliquot used?                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -All raw data present?  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Standard target DL's used? If RL's are used specify: _____       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -DL's below TDL/LCL (please circle)?                              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -All positives reported at levels greater than method blank DL's? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Correct RRF's used for method?                                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Internal standard amounts correct for method?                    | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Target analytes are not saturated?                               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Dilution/splitting of extract taken into account?                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Have dilution calculations been verified?                        | <u>NA</u>                           | <u>NA</u>                           | <u>NA</u>  | <u>NA</u>   |
| -Has a manual calculation for the sequence(s) been verified?      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Are retention times (RT) correct?                                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/>                  | <input checked="" type="checkbox"/>                 |
| -Manual integrations checked?                                     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <u>NA</u>  | <u>NA</u>   |

**Comments:** (Use other side if necessary)

See NCM

|                           |   |                      |
|---------------------------|---|----------------------|
| <b>* Recovery limits:</b> |   | <b>**RPD limits:</b> |
| NCASI 551:                | 40-120%***  | 50%                  |
| Method 8290:              | 40-135%***  | 20%                  |
| Method 1613:              | 25-150%***  | 50%                  |
| Method 23:                | 40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 70-130%(surr.) | 50%                  |
| PCBs:                     | 25-150%***  | 50%                  |
| Method 8280:              | 40-120%***  |                      |
| DFLM01.0:                 | 25-150%***  |                      |
| Method 1614               | 25-150%***  |                      |

\*\*\* Lower recoveries are acceptable if I.S. S/N ≥ 10:1 and DL's are <LCL for target analytes.

# AIR, TO-13, Semivolatile Organics

# **Raw Data Package**

## **Run/Batch Data**

*Includes (as applicable):*

*runlogs*

*continuing calibration standards*

*interference/performance check standards*

*continuing calibration blanks*

*method blanks*

*lcs*

*ms/sd*

*sample raw data*

*ms tune data*

Instrument: SV5 \_\_\_\_\_

ICAL Date: 10/02/10 \_\_\_\_\_

DFTPP ID: DFT1013

Initiator/Date: SRS-10/13/10 \_\_\_\_\_

Standard ID: HSL1013

Reviewer/Date: *[Signature]* 10/13/10

NCM #: \_\_\_\_\_

**I: 8270C Criteria**

|  | Initiated                           | Reviewed                            |
|--|-------------------------------------|-------------------------------------|
| Log Book page included.  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| CCV compared to correct ICAL.  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tune documentation is present and meets criteria.  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Manual re-integrations are checked, initialed and hardcopies included.                   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Retention time correct for Isomers and all other analytes.                               | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| CCV Internal Standards are within 50-200% of ICAL mid-point.                             | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Samples analyzed within 12 hours of Tune time.   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tailing and degradation criteria are met.  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Spot check manual integrations in Target. Analyte checked: <i>N-Nitrosodimethylamine</i> | NA                                  | <input checked="" type="checkbox"/> |
| Non-CCC $\leq$ 50% D   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

**II: 8270C SPCC Check** SPCC RRFs must be greater than 0.050

|                            | Initiated                           | Reviewed                            |                   | Initiated                           | Reviewed                            |
|----------------------------|-------------------------------------|-------------------------------------|-------------------|-------------------------------------|-------------------------------------|
| N-nitroso-di-n-propylamine | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 2,4-Dinitrophenol | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Hexachlorocyclopentadiene  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 4-Nitrophenol     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

**III: 8270C CCC Check** CCC must be  $\leq$  20%D (If CCC are not targets, all analytes must be  $<$ 20%D.)

|                         | Initiated                           | Reviewed                            |                        | Initiated                           | Reviewed                            |
|-------------------------|-------------------------------------|-------------------------------------|------------------------|-------------------------------------|-------------------------------------|
| Phenol                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Acenaphthene           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1,4-Dichlorobenzene     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | N-nitrosodiphenylamine | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2-Nitrophenol           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Pentachlorophenol      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2,4-Dinitrophenol       | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Flouranthene           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Hexachlorobutadiene     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Di-n-octyl phthalate   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4-Chloro-3-methylphenol | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Benzo(a)pyrene         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2,4,6-Trichlorophenol   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |                                     |                                     |

**IV: AFCEE 3.1 and 4.0 QAPP Criteria**

|  | Initiated                           | Reviewed                            |
|--|-------------------------------------|-------------------------------------|
| All analytes in CCV +/- 20%D compared to ICAL.   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| CCV and Sample Internal Standards are within 50-200% of ICAL mid-point.                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Are the compounds which required manual integrations documented in the MI spreadsheet? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

**V: DOD OSM V3 Criteria**

|  | Initiated                           | Reviewed                            |
|--|-------------------------------------|-------------------------------------|
| For 8270, CCCs must be $\leq 20\%$ D.  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| RRFs for SPCCs must meet minimum response factor criteria                              | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| CCV and sample Internal Standards are within 50-200% of ICAL mid-point.                | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| SIM: All analytes must be $\leq 20\%$  | <input type="checkbox"/> NA         | <input checked="" type="checkbox"/> |
| Are the compounds which required manual integrations documented in the MI spreadsheet? | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Notes:

GC/MS INSTRUMENT LOG  
SEMI-VOLATILES

Method Key (MTH Column)

QL = EPA 8270C (WS-MS-0005)  
 JZ = EPA TO-13A (WS-MS-0005)  
 VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)  
 QI = EPA 8270C-SIM (WS-MS-0008)  
 FX = PAH-SIM Isotope Dilution (WS-MS-0006)  
 F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)

Inst ID : sv5.i  
 Batch ID : 101310.B  
 ICAL Date: See Calib Report  
 See raw data for standard IDs

| Date        | Time  | USER | Sample ID               | File ID   | Vol or Wt  | Extract Vol | Diln | MTH | Comments    |
|-------------|-------|------|-------------------------|-----------|------------|-------------|------|-----|-------------|
| 13-OCT-2010 | 12:32 | srs  | PRIMER                  | QC001.D   | NA         | NA          | NA   |     |             |
| 13-OCT-2010 | 12:55 | srs  | DFTTP 50ug/ml           | DFT1013.D | NA         | NA          | NA   |     |             |
| 13-OCT-2010 | 13:15 | srs  | HSL_050 ug/ml CS-4      | HSL1013.D | NA         | NA          | NA   |     |             |
| 13-OCT-2010 | 14:20 | srs  | L7VVM1AA G0J010000-373B | S101301.D | 1000 Sa    | 1 mL        | 1    | JZ  | RT: Surr ↑  |
| 13-OCT-2010 | 14:45 | srs  | 100P0239 Surr Chk       | S101302.D | 1000 Sa    | 1 mL        | 1    | QL  |             |
| 13-OCT-2010 | 15:10 | srs  | L79L71AC G0J110000-217C | S101303.D | 1000 Sa    | 1 mL        | 1    | JZ  | RT: Surr ↑  |
| 13-OCT-2010 | 15:35 | srs  | L79L71AD G0J110000-217L | S101304.D | 1000 Sa    | 1 mL        | 1    | JZ  |             |
| 13-OCT-2010 | 16:00 | srs  | L78WJ1AA G0J090500-9    | S101305.D | 1000 Sa    | 1 mL        | 1    | JZ  | ↓           |
| 13-OCT-2010 | 16:25 | srs  | L78WK1AA G0J090500-10   | S101306.D | 1000 Sa    | 1 mL        | 1    | JZ  |             |
| 13-OCT-2010 | 16:50 | srs  | GPC-1 MB                | S101307.D | 30 g       | 1 mL        | 1    | QL  |             |
| 13-OCT-2010 | 17:15 | srs  | GPC-1 Check             | S101308.D | 30 g       | 1 mL        | 1    | QL  |             |
| 13-OCT-2010 | 17:40 | srs  | GPC-2 MB                | S101309.D | 30 g       | 1 mL        | 1    | QL  |             |
| 13-OCT-2010 | 18:05 | srs  | GPC-2 Check             | S101310.D | 30 g       | 1 mL        | 1    | QL  |             |
| 13-OCT-2010 | 18:30 | srs  | L707J1AA G0J110000-217B | S101311.D | 1000 mL    | 1 mL        | 1    | QL  |             |
| 13-OCT-2010 | 18:55 | srs  | L707J1AC G0J110000-217C | S101312.D | 1000 mL    | 1 mL        | 1    | QL  | RT: Spike ↓ |
| 13-OCT-2010 | 19:20 | srs  | L7QPG1CP G0I300460-9    | S101313.D | 1096.73 mL | 1 mL        | 1    | QL  |             |



TestAmerica West Sacramento  
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 13-OCT-2010 13:15  
 Lab File ID: HSL1013.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010  
 Analysis Type: Init. Cal. Times: 17:32 15:00  
 Lab Sample ID: HSL\_050 ug/ml CS-4 Quant Type: ISTD  
 Method: \\SV5\C\chem\sv5.i\101310.B\8270f.m

| COMPOUND                       | RF50         |         | CCAL    |       | MIN         |             | MAX      |  | CURVE TYPE |
|--------------------------------|--------------|---------|---------|-------|-------------|-------------|----------|--|------------|
|                                | RRF / AMOUNT | RF50    | RRF50   | RRF   | %D / %DRIFT | %D / %DRIFT |          |  |            |
| \$ 7 2-Fluorophenol            | 1.40992      | 1.43818 | 1.43818 | 0.010 | 2.00447     | 50.00000    | Averaged |  |            |
| \$ 8 Phenol-d5                 | 1.77296      | 1.79073 | 1.79073 | 0.010 | 1.00228     | 50.00000    | Averaged |  |            |
| \$ 9 2-Chlorophenol-d4         | 1.55698      | 1.58345 | 1.58345 | 0.010 | 1.69973     | 50.00000    | Averaged |  |            |
| \$ 10 1,2-Dichlorobenzene-d4   | 0.98513      | 0.99513 | 0.99513 | 0.010 | 1.01572     | 50.00000    | Averaged |  |            |
| \$ 11 Nitrobenzene-d5          | 0.33879      | 0.33341 | 0.33341 | 0.010 | -1.58949    | 50.00000    | Averaged |  |            |
| \$ 12 2-Fluorobiphenyl         | 1.28852      | 1.26897 | 1.26897 | 0.010 | -1.51712    | 50.00000    | Averaged |  |            |
| \$ 13 2,4,6-Tribromophenol     | 0.17381      | 0.18460 | 0.18460 | 0.010 | 6.20745     | 50.00000    | Averaged |  |            |
| \$ 14 Terphenyl-d14            | 0.78789      | 0.83422 | 0.83422 | 0.010 | 5.88016     | 50.00000    | Averaged |  |            |
| 15 N-Nitrosodimethylamine      | 0.92154      | 0.93889 | 0.93889 | 0.010 | 1.88218     | 50.00000    | Averaged |  |            |
| 16 Pyridine                    | 1.54111      | 1.44222 | 1.44222 | 0.010 | -6.41672    | 50.00000    | Averaged |  |            |
| 23 Aniline                     | 2.25673      | 2.23476 | 2.23476 | 0.010 | -0.97359    | 50.00000    | Averaged |  |            |
| 24 Phenol                      | 2.03729      | 2.08861 | 2.08861 | 0.010 | 2.51909     | 20.00000    | Averaged |  |            |
| 26 Bis(2-chloroethyl) ether    | 1.42859      | 1.46407 | 1.46407 | 0.010 | 2.48333     | 50.00000    | Averaged |  |            |
| 27 2-Chlorophenol              | 1.56381      | 1.57730 | 1.57730 | 0.010 | 0.86243     | 50.00000    | Averaged |  |            |
| 28 1,3-Dichlorobenzene         | 1.70337      | 1.71081 | 1.71081 | 0.010 | 0.43654     | 50.00000    | Averaged |  |            |
| 29 1,4-Dichlorobenzene         | 1.78118      | 1.84436 | 1.84436 | 0.010 | 3.54733     | 20.00000    | Averaged |  |            |
| 30 Benzyl Alcohol              | 1.05101      | 1.05847 | 1.05847 | 0.010 | 0.70970     | 50.00000    | Averaged |  |            |
| 31 1,2-Dichlorobenzene         | 1.63746      | 1.67091 | 1.67091 | 0.010 | 2.04243     | 50.00000    | Averaged |  |            |
| 32 2-Methylphenol              | 1.43012      | 1.43824 | 1.43824 | 0.010 | 0.56778     | 50.00000    | Averaged |  |            |
| 33 2,2'-oxybis(1-Chloropropane | 2.27365      | 2.09170 | 2.09170 | 0.010 | -8.00275    | 50.00000    | Averaged |  |            |
| 34 4-Methylphenol              | 1.51904      | 1.49518 | 1.49518 | 0.010 | -1.57090    | 50.00000    | Averaged |  |            |
| 36 Hexachloroethane            | 0.60636      | 0.61464 | 0.61464 | 0.010 | 1.36453     | 50.00000    | Averaged |  |            |
| 37 N-Nitrosodimethylamine      | 1.01180      | 0.99729 | 0.99729 | 0.050 | -1.43442    | 50.00000    | Averaged |  |            |
| 42 Nitrobenzene                | 0.33116      | 0.33006 | 0.33006 | 0.010 | -0.33438    | 50.00000    | Averaged |  |            |
| 44 Isophorone                  | 0.63679      | 0.62473 | 0.62473 | 0.010 | -1.89361    | 50.00000    | Averaged |  |            |
| 45 2-Nitrophenol               | 0.19648      | 0.20210 | 0.20210 | 0.010 | 2.86136     | 20.00000    | Averaged |  |            |
| 46 2,4-Dimethylphenol          | 0.34911      | 0.33705 | 0.33705 | 0.010 | -3.45640    | 50.00000    | Averaged |  |            |
| 47 Bis(2-chloroethoxy)methane  | 0.38908      | 0.37206 | 0.37206 | 0.010 | -4.37582    | 50.00000    | Averaged |  |            |
| 49 2,4-Dichlorophenol          | 0.27010      | 0.27351 | 0.27351 | 0.010 | 1.26384     | 20.00000    | Averaged |  |            |
| 50 Benzoic Acid                | 0.19324      | 0.19880 | 0.19880 | 0.010 | 2.87846     | 50.00000    | Averaged |  |            |
| 51 1,2,4-Trichlorobenzene      | 0.29246      | 0.29805 | 0.29805 | 0.010 | 1.91201     | 50.00000    | Averaged |  |            |
| 52 Naphthalene                 | 1.10443      | 1.09437 | 1.09437 | 0.010 | -0.91041    | 50.00000    | Averaged |  |            |
| 54 4-Chloroaniline             | 0.43288      | 0.43302 | 0.43302 | 0.010 | 0.03251     | 50.00000    | Averaged |  |            |
| 57 Hexachlorobutadiene         | 0.14313      | 0.14839 | 0.14839 | 0.010 | 3.67674     | 20.00000    | Averaged |  |            |
| 60 4-Chloro-3-Methylphenol     | 0.30164      | 0.30025 | 0.30025 | 0.010 | -0.45986    | 20.00000    | Averaged |  |            |
| 63 2-Methylnaphthalene         | 0.69378      | 0.67840 | 0.67840 | 0.010 | -2.21593    | 50.00000    | Averaged |  |            |
| 66 Hexachlorocyclopentadiene   | 0.29846      | 0.28670 | 0.28670 | 0.050 | -3.93759    | 50.00000    | Averaged |  |            |
| 69 2,4,6-Trichlorophenol       | 0.31913      | 0.34091 | 0.34091 | 0.010 | 6.82383     | 20.00000    | Averaged |  |            |
| 70 2,4,5-Trichlorophenol       | 0.34380      | 0.36039 | 0.36039 | 0.010 | 4.82518     | 50.00000    | Averaged |  |            |
| 71 2-Chloronaphthalene         | 1.12571      | 1.12216 | 1.12216 | 0.010 | -0.31576    | 50.00000    | Averaged |  |            |
| 73 2-Nitroaniline              | 0.34119      | 0.34137 | 0.34137 | 0.010 | 0.05533     | 50.00000    | Averaged |  |            |
| 76 Dimethylphthalate           | 1.29606      | 1.28741 | 1.28741 | 0.010 | -0.66765    | 50.00000    | Averaged |  |            |

Manual calculation for N-Nitrosodimethyl amine : st 10/13/10  

$$\frac{243579}{207547} \times \frac{40}{50} = 0.93889 \quad R7 \ 10/13/10$$

TestAmerica West Sacramento  
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 13-OCT-2010 13:15  
 Lab File ID: HSL1013.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010  
 Analysis Type: Init. Cal. Times: 17:32 15:00  
 Lab Sample ID: HSL\_050 ug/ml CS-4 Quant Type: ISTD  
 Method: \\SV5\C\chem\sv5.i\101310.B\8270f.m

| COMPOUND                          | RRF / AMOUNT |        | RF50     | CCAL    |       | MIN         |            | MAX    |           | CURVE TYPE |
|-----------------------------------|--------------|--------|----------|---------|-------|-------------|------------|--------|-----------|------------|
|                                   | RRF          | AMOUNT |          | RRF50   | RRF   | %D / %DRIFT | %D         | %DRIFT |           |            |
| 77 Acenaphthylene                 | 1.96037      |        | 1.96214  | 1.96214 | 0.010 | 0.09048     | 50.00000   |        | Averaged  |            |
| 79 2,6-Dinitrotoluene             | 0.30197      |        | 0.31781  | 0.31781 | 0.010 | 5.24674     | 50.00000   |        | Averaged  |            |
| 80 3-Nitroaniline                 | 0.37691      |        | 0.38070  | 0.38070 | 0.010 | 1.00583     | 50.00000   |        | Averaged  |            |
| 81 Acenaphthene                   | 1.24787      |        | 1.22937  | 1.22937 | 0.010 | -1.48209    | 20.00000   |        | Averaged  |            |
| 82 2,4-Dinitrophenol              | 50.00000     |        | 50.94303 | 0.18094 | 0.050 | 1.88606     | 0.000e+000 |        | Quadratic |            |
| 83 Dibenzofuran                   | 1.65612      |        | 1.64182  | 1.64182 | 0.010 | -0.86351    | 50.00000   |        | Averaged  |            |
| 84 4-Nitrophenol                  | 0.15634      |        | 0.16383  | 0.16383 | 0.050 | 4.78780     | 50.00000   |        | Averaged  |            |
| 86 2,4-Dinitrotoluene             | 0.39633      |        | 0.42216  | 0.42216 | 0.010 | 6.51610     | 50.00000   |        | Averaged  |            |
| 91 Fluorene                       | 1.37139      |        | 1.36555  | 1.36555 | 0.010 | -0.42594    | 50.00000   |        | Averaged  |            |
| 92 Diethylphthalate               | 1.32699      |        | 1.32875  | 1.32875 | 0.010 | 0.13225     | 50.00000   |        | Averaged  |            |
| 93 4-Chlorophenyl-phenylether     | 0.57019      |        | 0.58762  | 0.58762 | 0.010 | 3.05643     | 50.00000   |        | Averaged  |            |
| 94 4-Nitroaniline                 | 0.37361      |        | 0.37502  | 0.37502 | 0.010 | 0.37599     | 50.00000   |        | Averaged  |            |
| 97 4,6-Dinitro-2-methylphenol     | 50.00000     |        | 50.31589 | 0.14328 | 0.010 | 0.63178     | 0.000e+000 |        | Linear    |            |
| 98 N-Nitrosodiphenylamine         | 0.60628      |        | 0.62408  | 0.62408 | 0.010 | 2.93569     | 20.00000   |        | Averaged  |            |
| 100 Azobenzene                    | 0.78660      |        | 0.77308  | 0.77308 | 0.010 | -1.71932    | 50.00000   |        | Averaged  |            |
| 101 4-Bromophenyl-phenylether     | 0.19527      |        | 0.20738  | 0.20738 | 0.010 | 6.20411     | 50.00000   |        | Averaged  |            |
| 108 Hexachlorobenzene             | 0.21807      |        | 0.22593  | 0.22593 | 0.010 | 3.60684     | 50.00000   |        | Averaged  |            |
| 110 Pentachlorophenol             | 50.00000     |        | 51.00828 | 0.13298 | 0.010 | 2.01656     | 0.000e+000 |        | Linear    |            |
| 114 Phenanthrene                  | 1.26074      |        | 1.26548  | 1.26548 | 0.010 | 0.37544     | 50.00000   |        | Averaged  |            |
| 115 Anthracene                    | 1.25955      |        | 1.30017  | 1.30017 | 0.010 | 3.22525     | 50.00000   |        | Averaged  |            |
| 118 Carbazole                     | 1.15061      |        | 1.14568  | 1.14568 | 0.010 | -0.42814    | 50.00000   |        | Averaged  |            |
| 120 Di-n-Butylphthalate           | 1.38442      |        | 1.42575  | 1.42575 | 0.010 | 2.98558     | 50.00000   |        | Averaged  |            |
| 126 Fluoranthene                  | 1.12969      |        | 1.15956  | 1.15956 | 0.010 | 2.64438     | 20.00000   |        | Averaged  |            |
| 127 Benzidine                     | 0.81067      |        | 0.87044  | 0.87044 | 0.010 | 7.37223     | 50.00000   |        | Averaged  |            |
| 128 Pyrene                        | 1.25025      |        | 1.32571  | 1.32571 | 0.010 | 6.03524     | 50.00000   |        | Averaged  |            |
| 134 3,3'-dimethylbenzidine        | 0.71564      |        | 0.71839  | 0.71839 | 0.010 | 0.38395     | 50.00000   |        | Averaged  |            |
| 136 Butylbenzylphthalate          | 0.62663      |        | 0.64790  | 0.64790 | 0.010 | 3.39372     | 50.00000   |        | Averaged  |            |
| 138 Benzo(a)Anthracene            | 1.06548      |        | 1.09634  | 1.09634 | 0.010 | 2.89628     | 50.00000   |        | Averaged  |            |
| 139 Chrysene                      | 1.08994      |        | 1.09344  | 1.09344 | 0.010 | 0.32143     | 50.00000   |        | Averaged  |            |
| 140 3,3'-Dichlorobenzidine        | 0.40189      |        | 0.40700  | 0.40700 | 0.010 | 1.27193     | 50.00000   |        | Averaged  |            |
| 141 bis(2-ethylhexyl) Phthalate   | 0.86316      |        | 0.87145  | 0.87145 | 0.010 | 0.96075     | 50.00000   |        | Averaged  |            |
| 142 Di-n-octylphthalate           | 1.37975      |        | 1.40896  | 1.40896 | 0.010 | 2.11701     | 20.00000   |        | Averaged  |            |
| 144 Benzo(b)fluoranthene          | 0.90549      |        | 1.01008  | 1.01008 | 0.010 | 11.55060    | 50.00000   |        | Averaged  |            |
| 145 Benzo(k)fluoranthene          | 1.16236      |        | 1.13321  | 1.13321 | 0.010 | -2.50775    | 50.00000   |        | Averaged  |            |
| 147 Benzo(e)pyrene                | 0.94425      |        | 0.98781  | 0.98781 | 0.010 | 4.61401     | 50.00000   |        | Averaged  |            |
| 148 Benzo(a)pyrene                | 1.02655      |        | 1.06459  | 1.06459 | 0.010 | 3.70541     | 20.00000   |        | Averaged  |            |
| 151 Indeno(1,2,3-cd)pyrene        | 0.83029      |        | 0.85369  | 0.85369 | 0.010 | 2.81815     | 50.00000   |        | Averaged  |            |
| 152 Dibenzo(a,h)anthracene        | 0.92758      |        | 0.98962  | 0.98962 | 0.010 | 6.68873     | 50.00000   |        | Averaged  |            |
| 153 Benzo(g,h,i)perylene          | 1.00427      |        | 1.05563  | 1.05563 | 0.010 | 5.11367     | 50.00000   |        | Averaged  |            |
| M 162 benzo b,k Fluoranthene Tota | 2.06785      |        | 2.14329  | 2.14329 | 0.010 | 3.64826     | 50.00000   |        | Averaged  |            |

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\101310.B\HSL1013.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 13-OCT-2010 13:15  
 Operator : srs Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml CS-4;2;;4;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\101310.B\8270f.m  
 Meth Date : 13-Oct-2010 13:42 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 97 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

| Compounds                       | QUANT SIG |        | AMOUNTS |         |          |               |              |
|---------------------------------|-----------|--------|---------|---------|----------|---------------|--------------|
|                                 | MASS      | RT     | EXP RT  | REL RT  | RESPONSE | CAL-AMT ( NG) | ON-COL ( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 3.872  | 3.872   | (1.000) | 207547   | 40.0000       |              |
| * 2 Naphthalene-d8              | 136       | 5.281  | 5.281   | (1.000) | 903919   | 40.0000       |              |
| * 3 Acenaphthene-d10            | 164       | 7.374  | 7.374   | (1.000) | 481614   | 40.0000       |              |
| * 4 Phenanthrene-d10            | 188       | 9.302  | 9.302   | (1.000) | 753550   | 40.0000       |              |
| * 5 Chrysene-d12                | 240       | 13.654 | 13.654  | (1.000) | 715493   | 40.0000       |              |
| * 6 Perylene-d12                | 264       | 16.027 | 16.027  | (1.000) | 695716   | 40.0000       |              |
| \$ 7 2-Fluorophenol             | 112       | 2.649  | 2.649   | (0.684) | 373113   | 50.0000       | 51.00        |
| \$ 8 Phenol-d5                  | 99        | 3.530  | 3.530   | (0.912) | 464576   | 50.0000       | 50.50        |
| \$ 9 2-Chlorophenol-d4          | 132       | 3.664  | 3.664   | (0.946) | 410800   | 50.0000       | 50.85        |
| \$ 10 1,2-Dichlorobenzene-d4    | 152       | 4.068  | 4.068   | (1.051) | 258171   | 50.0000       | 50.51        |
| \$ 11 Nitrobenzene-d5           | 82        | 4.493  | 4.493   | (0.851) | 376719   | 50.0000       | 49.20        |
| \$ 12 2-Fluorobiphenyl          | 172       | 6.587  | 6.587   | (0.893) | 763945   | 50.0000       | 49.24        |
| \$ 13 2,4,6-Tribromophenol      | 330       | 8.379  | 8.379   | (1.136) | 111135   | 50.0000       | 53.10        |
| \$ 14 Terphenyl-d14             | 244       | 11.893 | 11.893  | (0.871) | 746101   | 50.0000       | 52.94        |
| 15 N-Nitrosodimethylamine       | 74        | 1.623  | 1.623   | (0.419) | 243579   | 50.0000       | 50.94 (M)    |
| 16 Pyridine                     | 79        | 1.643  | 1.643   | (0.425) | 374161   | 50.0000       | 46.79        |
| 23 Aniline                      | 93        | 3.571  | 3.571   | (0.922) | 579771   | 50.0000       | 49.51        |
| 24 Phenol                       | 94        | 3.540  | 3.540   | (0.914) | 541855   | 50.0000       | 51.26        |
| 26 Bis(2-chloroethyl) ether     | 93        | 3.633  | 3.633   | (0.938) | 379829   | 50.0000       | 51.24        |
| 27 2-Chlorophenol               | 128       | 3.685  | 3.685   | (0.952) | 409204   | 50.0000       | 50.43        |
| 28 1,3-Dichlorobenzene          | 146       | 3.830  | 3.830   | (0.989) | 443842   | 50.0000       | 50.22        |
| 29 1,4-Dichlorobenzene          | 146       | 3.882  | 3.882   | (1.003) | 478490   | 50.0000       | 51.77        |
| 30 Benzyl Alcohol               | 108       | 4.027  | 4.027   | (1.040) | 274603   | 50.0000       | 50.35        |
| 31 1,2-Dichlorobenzene          | 146       | 4.079  | 4.079   | (1.054) | 433490   | 50.0000       | 51.02        |
| 32 2-Methylphenol               | 108       | 4.172  | 4.172   | (1.078) | 373129   | 50.0000       | 50.28        |
| 33 2,2'-oxybis(1-Chloropropane) | 45        | 4.203  | 4.203   | (1.086) | 542657   | 50.0000       | 46.00        |
| 34 4-Methylphenol               | 108       | 4.338  | 4.338   | (1.120) | 387900   | 50.0000       | 49.21        |
| 36 Hexachloroethane             | 117       | 4.410  | 4.410   | (1.139) | 159458   | 50.0000       | 50.68        |
| 37 N-Nitrosodinpropylamine      | 70        | 4.359  | 4.359   | (1.126) | 258730   | 50.0000       | 49.28        |
| 42 Nitrobenzene                 | 77        | 4.514  | 4.514   | (0.855) | 372930   | 50.0000       | 49.83        |
| 44 Isophorone                   | 82        | 4.773  | 4.773   | (0.904) | 705882   | 50.0000       | 49.05        |
| 45 2-Nitrophenol                | 139       | 4.877  | 4.877   | (0.923) | 228352   | 50.0000       | 51.43        |
| 46 2,4-Dimethylphenol           | 107       | 4.929  | 4.929   | (0.933) | 380830   | 50.0000       | 48.27        |

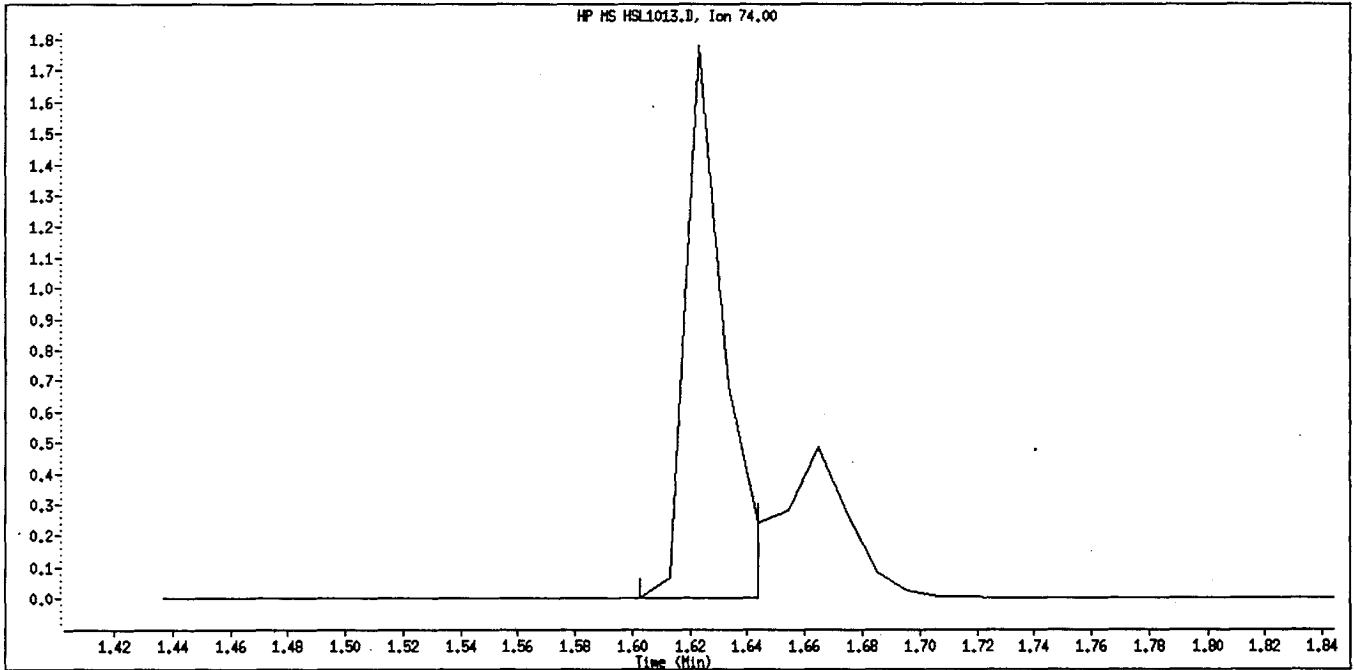
| Compounds                       | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                                 |                   |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane   | 93                | 5.043  | 5.043  | (0.955) | 420388   | 50.0000          | 47.81           |
| 49 2,4-Dichlorophenol           | 162               | 5.136  | 5.136  | (0.973) | 309043   | 50.0000          | 50.63           |
| 50 Benzoic Acid                 | 122               | 5.043  | 5.043  | (0.955) | 224628   | 50.0000          | 51.44           |
| 51 1,2,4-Trichlorobenzene       | 180               | 5.239  | 5.239  | (0.992) | 336763   | 50.0000          | 50.96           |
| 52 Naphthalene                  | 128               | 5.302  | 5.302  | (1.004) | 1236529  | 50.0000          | 49.54           |
| 54 4-Chloroaniline              | 127               | 5.405  | 5.405  | (1.024) | 489264   | 50.0000          | 50.02           |
| 57 Hexachlorobutadiene          | 225               | 5.530  | 5.530  | (1.047) | 167664   | 50.0000          | 51.84           |
| 60 4-Chloro-3-Methylphenol      | 107               | 5.986  | 5.986  | (1.133) | 339250   | 50.0000          | 49.77           |
| 63 2-Methylnaphthalene          | 142               | 6.110  | 6.110  | (1.157) | 766525   | 50.0000          | 48.89           |
| 66 Hexachlorocyclopentadiene    | 237               | 6.390  | 6.390  | (0.867) | 172601   | 50.0000          | 48.03           |
| 69 2,4,6-Trichlorophenol        | 196               | 6.493  | 6.493  | (0.881) | 205234   | 50.0000          | 53.41           |
| 70 2,4,5-Trichlorophenol        | 196               | 6.535  | 6.535  | (0.886) | 216961   | 50.0000          | 52.41           |
| 71 2-Chloronaphthalene          | 162               | 6.690  | 6.690  | (0.907) | 675557   | 50.0000          | 49.84           |
| 73 2-Nitroaniline               | 65                | 6.866  | 6.866  | (0.931) | 205513   | 50.0000          | 50.03           |
| 76 Dimethylphthalate            | 163               | 7.136  | 7.136  | (0.968) | 775043   | 50.0000          | 49.67           |
| 77 Acenaphthylene               | 152               | 7.188  | 7.188  | (0.975) | 1181243  | 50.0000          | 50.04           |
| 79 2,6-Dinitrotoluene           | 165               | 7.208  | 7.208  | (0.978) | 191327   | 50.0000          | 52.62           |
| 80 3-Nitroaniline               | 138               | 7.364  | 7.364  | (0.999) | 229186   | 50.0000          | 50.50           |
| 81 Acenaphthene                 | 153               | 7.416  | 7.416  | (1.006) | 740104   | 50.0000          | 49.26           |
| 82 2,4-Dinitrophenol            | 184               | 7.488  | 7.488  | (1.015) | 108929   | 50.0000          | 50.94           |
| 83 Dibenzofuran                 | 168               | 7.613  | 7.613  | (1.032) | 988404   | 50.0000          | 49.57           |
| 84 4-Nitrophenol                | 109               | 7.592  | 7.592  | (1.030) | 98626    | 50.0000          | 52.39           |
| 86 2,4-Dinitrotoluene           | 165               | 7.675  | 7.675  | (1.041) | 254146   | 50.0000          | 53.26           |
| 91 Fluorene                     | 166               | 8.037  | 8.037  | (1.090) | 822086   | 50.0000          | 49.79           |
| 92 Diethylphthalate             | 149               | 8.006  | 8.006  | (1.086) | 799929   | 50.0000          | 50.07           |
| 93 4-Chlorophenyl-phenylether   | 204               | 8.058  | 8.058  | (1.093) | 353756   | 50.0000          | 51.53           |
| 94 4-Nitroaniline               | 138               | 8.120  | 8.120  | (1.101) | 225767   | 50.0000          | 50.19           |
| 97 4,6-Dinitro-2-methylphenol   | 198               | 8.183  | 8.183  | (0.880) | 134962   | 50.0000          | 50.32           |
| 98 N-Nitrosodiphenylamine       | 169               | 8.224  | 8.224  | (0.884) | 688956   | 58.6000          | 60.32           |
| 100 Azobenzene                  | 77                | 8.255  | 8.255  | (0.887) | 728191   | 50.0000          | 49.14           |
| 101 4-Bromophenyl-phenylether   | 248               | 8.690  | 8.690  | (0.934) | 195340   | 50.0000          | 53.10           |
| 108 Hexachlorobenzene           | 284               | 8.877  | 8.877  | (0.954) | 212813   | 50.0000          | 51.80           |
| 110 Pentachlorophenol           | 266               | 9.136  | 9.136  | (0.982) | 125259   | 50.0000          | 51.01           |
| 114 Phenanthrene                | 178               | 9.333  | 9.333  | (1.003) | 1192000  | 50.0000          | 50.19           |
| 115 Anthracene                  | 178               | 9.395  | 9.395  | (1.010) | 1224678  | 50.0000          | 51.61           |
| 118 Carbazole                   | 167               | 9.654  | 9.654  | (1.038) | 1079161  | 50.0000          | 49.78           |
| 120 Di-n-Butylphthalate         | 149               | 10.359 | 10.359 | (1.114) | 1342968  | 50.0000          | 51.49           |
| 126 Fluoranthene                | 202               | 11.177 | 11.177 | (1.202) | 1092235  | 50.0000          | 51.32           |
| 127 Benzidine                   | 184               | 11.457 | 11.457 | (0.839) | 778490   | 50.0000          | 53.69           |
| 128 Pyrene                      | 202               | 11.540 | 11.540 | (0.845) | 1185671  | 50.0000          | 53.02           |
| 134 3,3'-dimethylbenzidine      | 212               | 12.742 | 12.742 | (0.933) | 642500   | 50.0000          | 50.19           |
| 136 Butylbenzylphthalate        | 149               | 12.867 | 12.867 | (0.942) | 579459   | 50.0000          | 51.70           |
| 138 Benzo(a)Anthracene          | 228               | 13.623 | 13.623 | (0.998) | 980526   | 50.0000          | 51.45           |
| 139 Chrysene                    | 228               | 13.696 | 13.696 | (1.003) | 977936   | 50.0000          | 50.16           |
| 140 3,3'-Dichlorobenzidine      | 252               | 13.675 | 13.675 | (1.002) | 364010   | 50.0000          | 50.64           |
| 141 bis(2-ethylhexyl) Phthalate | 149               | 13.986 | 13.986 | (1.024) | 779399   | 50.0000          | 50.48           |
| 142 Di-n-octylphthalate         | 149               | 15.043 | 15.043 | (1.102) | 1260125  | 50.0000          | 51.06           |
| 144 Benzo(b) fluoranthene       | 252               | 15.447 | 15.447 | (0.964) | 878411   | 50.0000          | 55.78           |
| 145 Benzo(k) fluoranthene       | 252               | 15.489 | 15.489 | (0.966) | 985490   | 50.0000          | 48.75           |
| 147 Benzo(e)pyrene              | 252               | 15.862 | 15.862 | (0.990) | 859048   | 50.0000          | 52.31           |
| 148 Benzo(a)pyrene              | 252               | 15.944 | 15.944 | (0.995) | 925813   | 50.0000          | 51.85           |
| 151 Indeno(1,2,3-cd)pyrene      | 276               | 17.634 | 17.634 | (1.100) | 742405   | 50.0000          | 51.41           |
| 152 Dibenzo(a,h)anthracene      | 278               | 17.675 | 17.675 | (1.103) | 860617   | 50.0000          | 53.34           |
| 153 Benzo(g,h,i)perylene        | 276               | 18.048 | 18.048 | (1.126) | 918020   | 50.0000          | 52.56           |

| Compounds                           | QUANT SIG |  |      |        |        |          |                  | AMOUNTS         |  |
|-------------------------------------|-----------|--|------|--------|--------|----------|------------------|-----------------|--|
|                                     | MASS      |  | RT   | EXP RT | REL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |  |
| -----                               | ----      |  | ---- | -----  | -----  | -----    | -----            | -----           |  |
| M 162 benzo b,k Fluoranthene Totals | 252       |  |      |        |        | 1863901  | 50.0000          | 51.82(A)        |  |

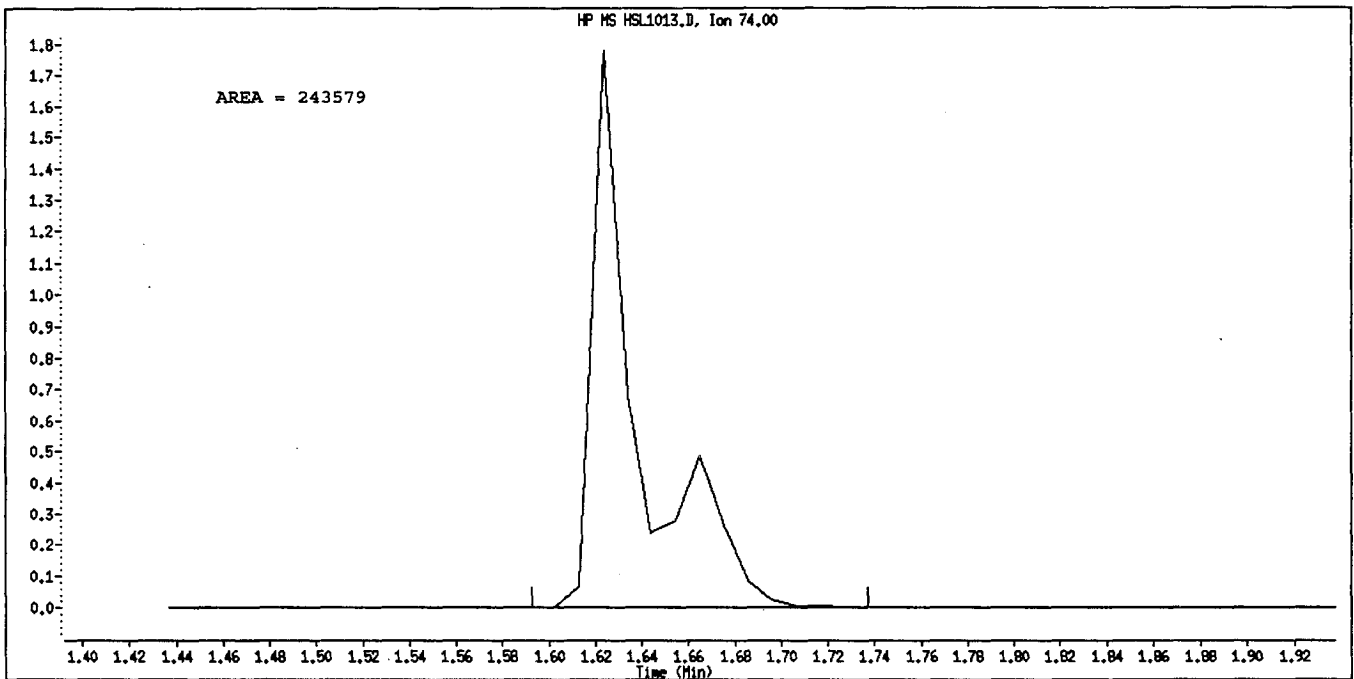
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File Name: HSL1013.D  
Inj. Date and Time: 13-OCT-2010 13:15  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: N-Nitrosodimethylamine  
CAS #: 62-75-9  
Report Date: 10/13/2010



Original Integration



Manual Integration

SPJ 10/13/10

Manually Integrated By: ~~semivon~~ SPJ 10/13/10  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\101310.B\HSL1013.D  
 Lab Smp Id: HSL 050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 13-OCT-2010 13:15  
 Operator : srs Inst ID: sv5.i  
 Smp Info : HSL 050 ug/ml CS-4;2;;4;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\101310.B\8270f.m  
 Meth Date : 13-Oct-2010 13:42 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 97 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

| Compounds                       | QUANT | SIG | AMOUNTS |        |         |        | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
|---------------------------------|-------|-----|---------|--------|---------|--------|------------------|-----------------|
|                                 |       |     | MASS    | RT     | EXP RT  | REL RT |                  |                 |
| * 1 1,4-Dichlorobenzene-d4      | 152   |     | 3.872   | 3.872  | (1.000) | 207547 | 40.0000          |                 |
| * 2 Naphthalene-d8              | 136   |     | 5.281   | 5.281  | (1.000) | 903919 | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164   |     | 7.374   | 7.374  | (1.000) | 481614 | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188   |     | 9.302   | 9.302  | (1.000) | 753550 | 40.0000          |                 |
| * 5 Chrysene-d12                | 240   |     | 13.654  | 13.654 | (1.000) | 715493 | 40.0000          |                 |
| * 6 Perylene-d12                | 264   |     | 16.027  | 16.027 | (1.000) | 695716 | 40.0000          |                 |
| \$ 7 2-Fluorophenol             | 112   |     | 2.649   | 2.649  | (0.684) | 373113 | 50.0000          | 51.00           |
| \$ 8 Phenol-d5                  | 99    |     | 3.530   | 3.530  | (0.912) | 464576 | 50.0000          | 50.50           |
| \$ 9 2-Chlorophenol-d4          | 132   |     | 3.664   | 3.664  | (0.946) | 410800 | 50.0000          | 50.85           |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 4.068   | 4.068  | (1.051) | 258171 | 50.0000          | 50.51           |
| \$ 11 Nitrobenzene-d5           | 82    |     | 4.493   | 4.493  | (0.851) | 376719 | 50.0000          | 49.20           |
| \$ 12 2-Fluorobiphenyl          | 172   |     | 6.587   | 6.587  | (0.893) | 763945 | 50.0000          | 49.24           |
| \$ 13 2,4,6-Tribromophenol      | 330   |     | 8.379   | 8.379  | (1.136) | 111135 | 50.0000          | 53.10           |
| \$ 14 Terphenyl-d14             | 244   |     | 11.893  | 11.893 | (0.871) | 746101 | 50.0000          | 52.94           |
| 15 N-Nitrosodimethylamine       | 74    |     | 1.623   | 1.623  | (0.419) | 164645 | 50.0000          | 34.43           |
| 16 Pyridine                     | 79    |     | 1.643   | 1.643  | (0.425) | 374161 | 50.0000          | 46.79           |
| 23 Aniline                      | 93    |     | 3.571   | 3.571  | (0.922) | 579771 | 50.0000          | 49.51           |
| 24 Phenol                       | 94    |     | 3.540   | 3.540  | (0.914) | 541855 | 50.0000          | 51.26           |
| 26 Bis(2-chloroethyl) ether     | 93    |     | 3.633   | 3.633  | (0.938) | 379829 | 50.0000          | 51.24           |
| 27 2-Chlorophenol               | 128   |     | 3.685   | 3.685  | (0.952) | 409204 | 50.0000          | 50.43           |
| 28 1,3-Dichlorobenzene          | 146   |     | 3.830   | 3.830  | (0.989) | 443842 | 50.0000          | 50.22           |
| 29 1,4-Dichlorobenzene          | 146   |     | 3.882   | 3.882  | (1.003) | 478490 | 50.0000          | 51.77           |
| 30 Benzyl Alcohol               | 108   |     | 4.027   | 4.027  | (1.040) | 274603 | 50.0000          | 50.35           |
| 31 1,2-Dichlorobenzene          | 146   |     | 4.079   | 4.079  | (1.054) | 433490 | 50.0000          | 51.02           |
| 32 2-Methylphenol               | 108   |     | 4.172   | 4.172  | (1.078) | 373129 | 50.0000          | 50.28           |
| 33 2,2'-oxybis(1-Chloropropane) | 45    |     | 4.203   | 4.203  | (1.086) | 542657 | 50.0000          | 46.00           |
| 34 4-Methylphenol               | 108   |     | 4.338   | 4.338  | (1.120) | 387900 | 50.0000          | 49.21           |
| 36 Hexachloroethane             | 117   |     | 4.410   | 4.410  | (1.139) | 159458 | 50.0000          | 50.68           |
| 37 N-Nitrosodinpropylamine      | 70    |     | 4.359   | 4.359  | (1.126) | 258730 | 50.0000          | 49.28           |
| 42 Nitrobenzene                 | 77    |     | 4.514   | 4.514  | (0.855) | 372930 | 50.0000          | 49.83           |
| 44 Isophorone                   | 82    |     | 4.773   | 4.773  | (0.904) | 705882 | 50.0000          | 49.05           |
| 45 2-Nitrophenol                | 139   |     | 4.877   | 4.877  | (0.923) | 228352 | 50.0000          | 51.43           |
| 46 2,4-Dimethylphenol           | 107   |     | 4.929   | 4.929  | (0.933) | 380830 | 50.0000          | 48.27           |

| Compounds                      | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane  | 93        | 5.043  | 5.043  | (0.955) | 420388   | 50.0000          | 47.81           |
| 49 2,4-Dichlorophenol          | 162       | 5.136  | 5.136  | (0.973) | 309043   | 50.0000          | 50.63           |
| 50 Benzoic Acid                | 122       | 5.043  | 5.043  | (0.955) | 224628   | 50.0000          | 51.44           |
| 51 1,2,4-Trichlorobenzene      | 180       | 5.239  | 5.239  | (0.992) | 336763   | 50.0000          | 50.96           |
| 52 Naphthalene                 | 128       | 5.302  | 5.302  | (1.004) | 1236529  | 50.0000          | 49.54           |
| 54 4-Chloroaniline             | 127       | 5.405  | 5.405  | (1.024) | 489264   | 50.0000          | 50.02           |
| 57 Hexachlorobutadiene         | 225       | 5.530  | 5.530  | (1.047) | 167664   | 50.0000          | 51.84           |
| 60 4-Chloro-3-Methylphenol     | 107       | 5.986  | 5.986  | (1.133) | 339250   | 50.0000          | 49.77           |
| 63 2-Methylnaphthalene         | 142       | 6.110  | 6.110  | (1.157) | 766525   | 50.0000          | 48.89           |
| 66 Hexachlorocyclopentadiene   | 237       | 6.390  | 6.390  | (0.867) | 172601   | 50.0000          | 48.03           |
| 69 2,4,6-Trichlorophenol       | 196       | 6.493  | 6.493  | (0.881) | 205234   | 50.0000          | 53.41           |
| 70 2,4,5-Trichlorophenol       | 196       | 6.535  | 6.535  | (0.886) | 216961   | 50.0000          | 52.41           |
| 71 2-Chloronaphthalene         | 162       | 6.690  | 6.690  | (0.907) | 675557   | 50.0000          | 49.84           |
| 73 2-Nitroaniline              | 65        | 6.866  | 6.866  | (0.931) | 205513   | 50.0000          | 50.03           |
| 76 Dimethylphthalate           | 163       | 7.136  | 7.136  | (0.968) | 775043   | 50.0000          | 49.67           |
| 77 Acenaphthylene              | 152       | 7.188  | 7.188  | (0.975) | 1181243  | 50.0000          | 50.04           |
| 79 2,6-Dinitrotoluene          | 165       | 7.208  | 7.208  | (0.978) | 191327   | 50.0000          | 52.62           |
| 80 3-Nitroaniline              | 138       | 7.364  | 7.364  | (0.999) | 229186   | 50.0000          | 50.50           |
| 81 Acenaphthene                | 153       | 7.416  | 7.416  | (1.006) | 740104   | 50.0000          | 49.26           |
| 82 2,4-Dinitrophenol           | 184       | 7.488  | 7.488  | (1.015) | 108929   | 50.0000          | 50.94           |
| 83 Dibenzofuran                | 168       | 7.613  | 7.613  | (1.032) | 988404   | 50.0000          | 49.57           |
| 84 4-Nitrophenol               | 109       | 7.592  | 7.592  | (1.030) | 98626    | 50.0000          | 52.39           |
| 86 2,4-Dinitrotoluene          | 165       | 7.675  | 7.675  | (1.041) | 254146   | 50.0000          | 53.26           |
| 91 Fluorene                    | 166       | 8.037  | 8.037  | (1.090) | 822086   | 50.0000          | 49.79           |
| 92 Diethylphthalate            | 149       | 8.006  | 8.006  | (1.086) | 799929   | 50.0000          | 50.07           |
| 93 4-Chlorophenyl-phenylether  | 204       | 8.058  | 8.058  | (1.093) | 353756   | 50.0000          | 51.53           |
| 94 4-Nitroaniline              | 138       | 8.120  | 8.120  | (1.101) | 225767   | 50.0000          | 50.19           |
| 97 4,6-Dinitro-2-methylphenol  | 198       | 8.183  | 8.183  | (0.880) | 134962   | 50.0000          | 50.32           |
| 98 N-Nitrosodiphenylamine      | 169       | 8.224  | 8.224  | (0.884) | 688956   | 58.6000          | 60.32           |
| 100 Azobenzene                 | 77        | 8.255  | 8.255  | (0.887) | 728191   | 50.0000          | 49.14           |
| 101 4-Bromophenyl-phenylether  | 248       | 8.690  | 8.690  | (0.934) | 195340   | 50.0000          | 53.10           |
| 108 Hexachlorobenzene          | 284       | 8.877  | 8.877  | (0.954) | 212813   | 50.0000          | 51.80           |
| 110 Pentachlorophenol          | 266       | 9.136  | 9.136  | (0.982) | 125259   | 50.0000          | 51.01           |
| 114 Phenanthrene               | 178       | 9.333  | 9.333  | (1.003) | 1192000  | 50.0000          | 50.19           |
| 115 Anthracene                 | 178       | 9.395  | 9.395  | (1.010) | 1224678  | 50.0000          | 51.61           |
| 118 Carbazole                  | 167       | 9.654  | 9.654  | (1.038) | 1079161  | 50.0000          | 49.78           |
| 120 Di-n-Butylphthalate        | 149       | 10.359 | 10.359 | (1.114) | 1342968  | 50.0000          | 51.49           |
| 126 Fluoranthene               | 202       | 11.177 | 11.177 | (1.202) | 1092235  | 50.0000          | 51.32           |
| 127 Benzidine                  | 184       | 11.457 | 11.457 | (0.839) | 778490   | 50.0000          | 53.69           |
| 128 Pyrene                     | 202       | 11.540 | 11.540 | (0.845) | 1185671  | 50.0000          | 53.02           |
| 134 3,3'-dimethylbenzidine     | 212       | 12.742 | 12.742 | (0.933) | 642500   | 50.0000          | 50.19           |
| 136 Butylbenzylphthalate       | 149       | 12.867 | 12.867 | (0.942) | 579459   | 50.0000          | 51.70           |
| 138 Benzo(a)Anthracene         | 228       | 13.623 | 13.623 | (0.998) | 980526   | 50.0000          | 51.45           |
| 139 Chrysene                   | 228       | 13.696 | 13.696 | (1.003) | 977936   | 50.0000          | 50.16           |
| 140 3,3'-Dichlorobenzidine     | 252       | 13.675 | 13.675 | (1.002) | 364010   | 50.0000          | 50.64           |
| 141 bis(2-ethylhexyl)Phthalate | 149       | 13.986 | 13.986 | (1.024) | 779399   | 50.0000          | 50.48           |
| 142 Di-n-octylphthalate        | 149       | 15.043 | 15.043 | (1.102) | 1260125  | 50.0000          | 51.06           |
| 144 Benzo(b)fluoranthene       | 252       | 15.447 | 15.447 | (0.964) | 878411   | 50.0000          | 55.78           |
| 145 Benzo(k)fluoranthene       | 252       | 15.489 | 15.489 | (0.966) | 985490   | 50.0000          | 48.75           |
| 147 Benzo(e)pyrene             | 252       | 15.862 | 15.862 | (0.990) | 859048   | 50.0000          | 52.31           |
| 148 Benzo(a)pyrene             | 252       | 15.944 | 15.944 | (0.995) | 925813   | 50.0000          | 51.85           |
| 151 Indeno(1,2,3-cd)pyrene     | 276       | 17.634 | 17.634 | (1.100) | 742405   | 50.0000          | 51.41           |
| 152 Dibenzo(a,h)anthracene     | 278       | 17.675 | 17.675 | (1.103) | 860617   | 50.0000          | 53.34           |
| 153 Benzo(g,h,i)perylene       | 276       | 18.048 | 18.048 | (1.126) | 918020   | 50.0000          | 52.56           |



| Compounds                           | QUANT SIG |  | AMOUNTS |        |        |          |                  |                 |
|-------------------------------------|-----------|--|---------|--------|--------|----------|------------------|-----------------|
|                                     | MASS      |  | RT      | EXP RT | REL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| -----                               | ----      |  | ----    | -----  | -----  | -----    | -----            | -----           |
| M 162 benzo b,k Fluoranthene Totals | 252       |  |         |        |        | 1863901  | 50.0000          | 51.82(A)        |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1013.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\101310.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 13-OCT-2010  
 Calibration Time: 12:32  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 207547 | 69.25 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 903919 | 70.39 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 481614 | 70.46 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 753550 | 62.85 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 715493 | 64.16 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 695716 | 64.75 |

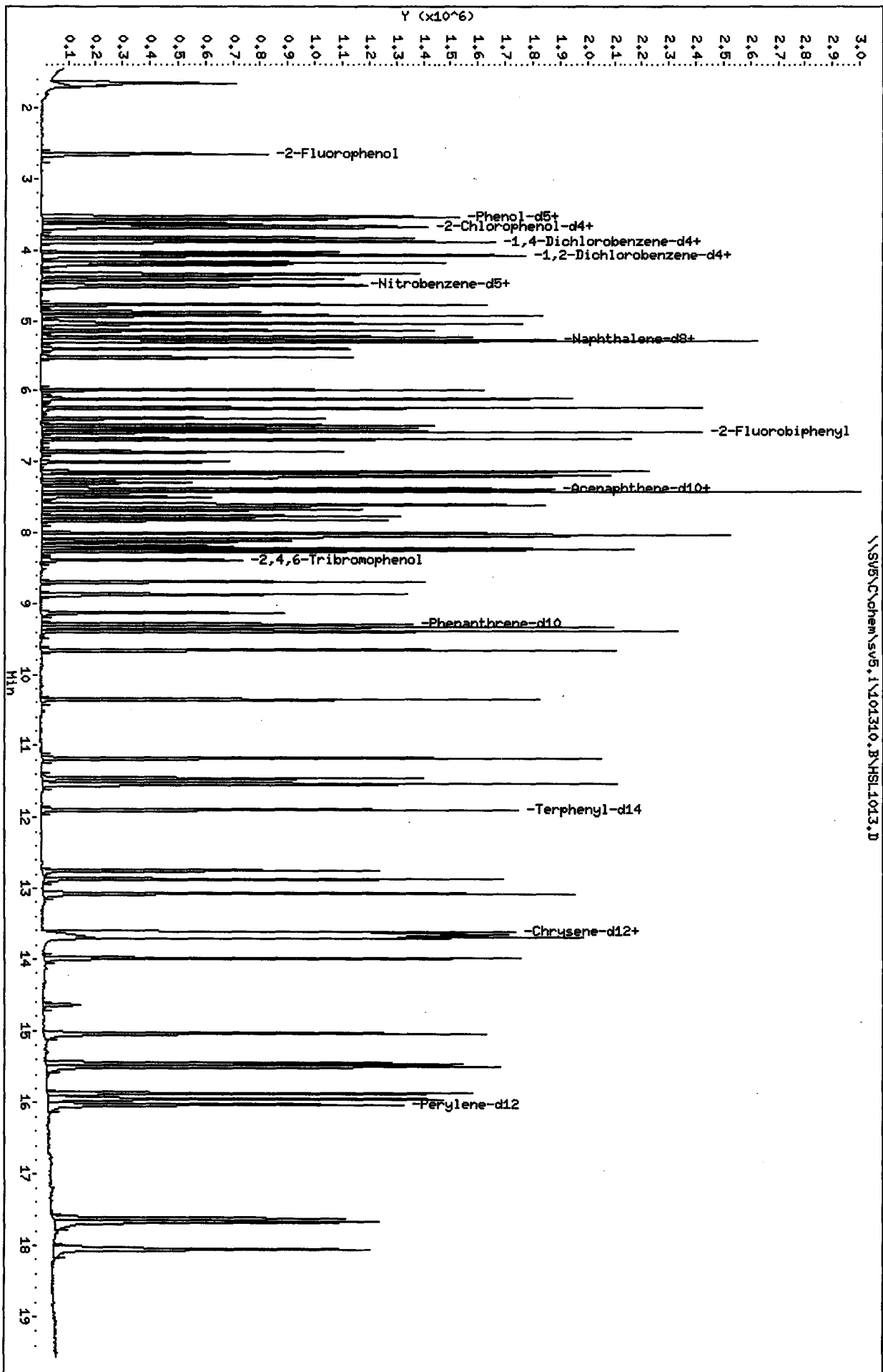
| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.87     | 3.37     | 4.37  | 3.87   | 0.00  |
| 2 Naphthalene-d8    | 5.28     | 4.78     | 5.78  | 5.28   | 0.00  |
| 3 Acenaphthene-d10  | 7.37     | 6.87     | 7.87  | 7.37   | 0.00  |
| 4 Phenanthrene-d10  | 9.30     | 8.80     | 9.80  | 9.30   | 0.00  |
| 5 Chrysene-d12      | 13.65    | 13.15    | 14.15 | 13.65  | 0.00  |
| 6 Perylene-d12      | 16.03    | 15.53    | 16.53 | 16.03  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SVS\C\chem\sv5.1\101310.B\HSL1013.D  
 Date: 13-OCT-2010 13:15  
 Client ID: 8270F.M  
 Sample Info: HSL\_050 ug/ml CS-4;2;4;4;4;4  
 Column phase:

Instrument: sv5.1  
 Operator: srs  
 Column diameter: 2.00

\\SVS\C\chem\sv5.1\101310.B\HSL1013.D



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound          | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 1.0243190   | 5.000       | PASS |
| Benzidine         | 0.6888845   | 3.000       | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound      | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDD + DDE | 172975   | 9.9        | 20.5        | PASS |

Sample //SV5/C/chem/sv5.i/101310.B/DFT1013.D/DFT1013.D

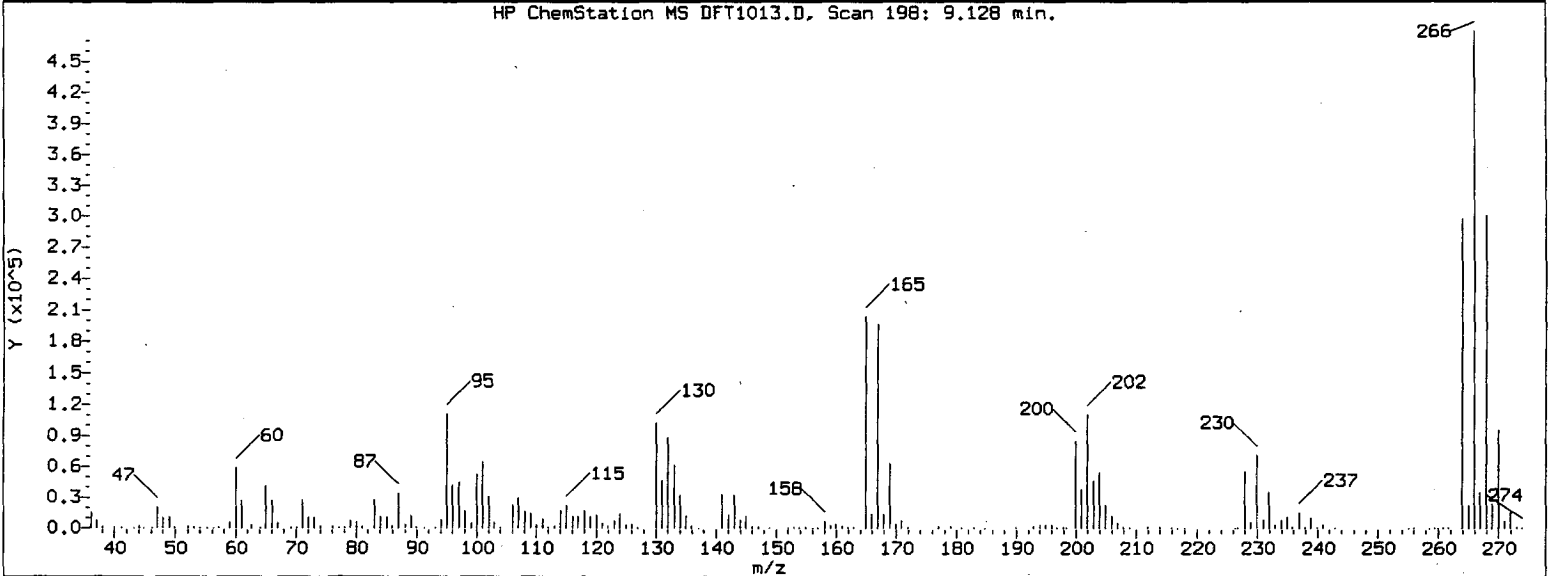
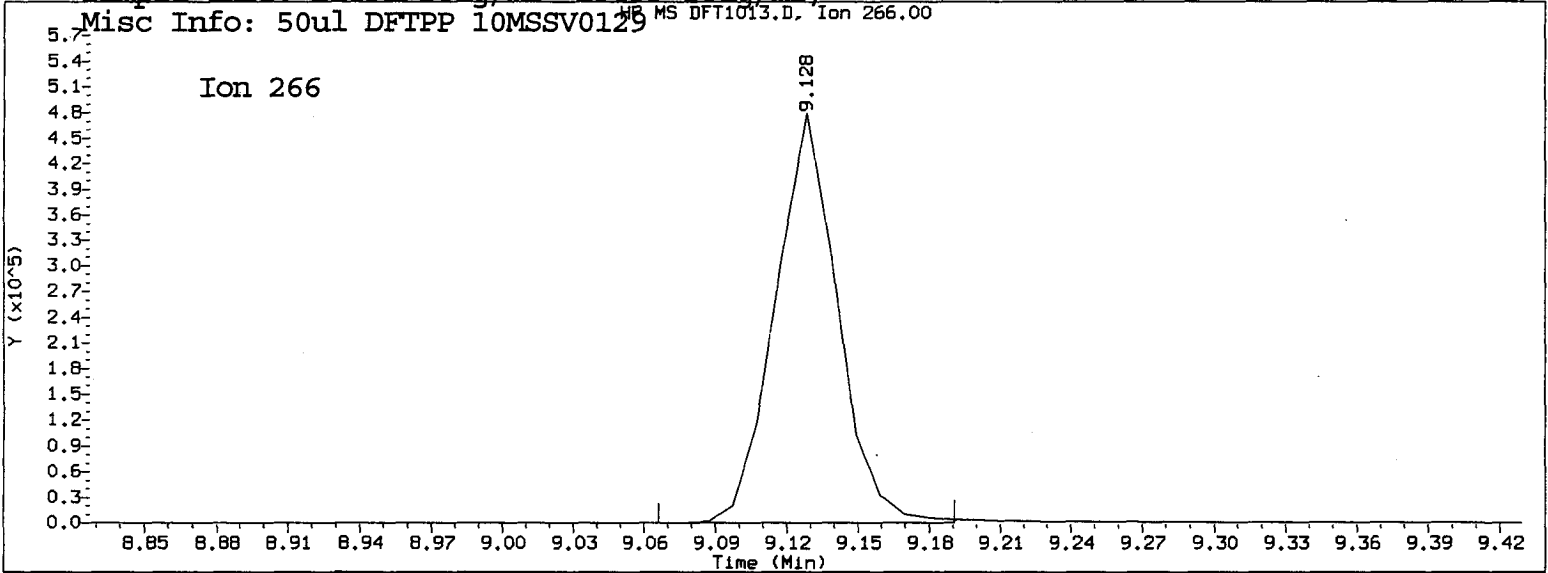
\*\*\*\*\*  
 \*\*\* PASSED \*\*\*  
 \*\*\*\*\*

*SM 10/13/10*

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/13/2010 13:13

Datafile Analyzed: //SV5/C/chem/sv5.i/101310.B/DFT1013.D/DFT1013.D  
Method Used: \\SV5\C\chem\sv5.i\101310.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 13-OCT-2010 12:55 Operator: srs  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129 MS DFT1013.D, Ion 266.00



Pentachlorophenol

=====  
Exp. RT = 9.387  
Found RT = 9.128

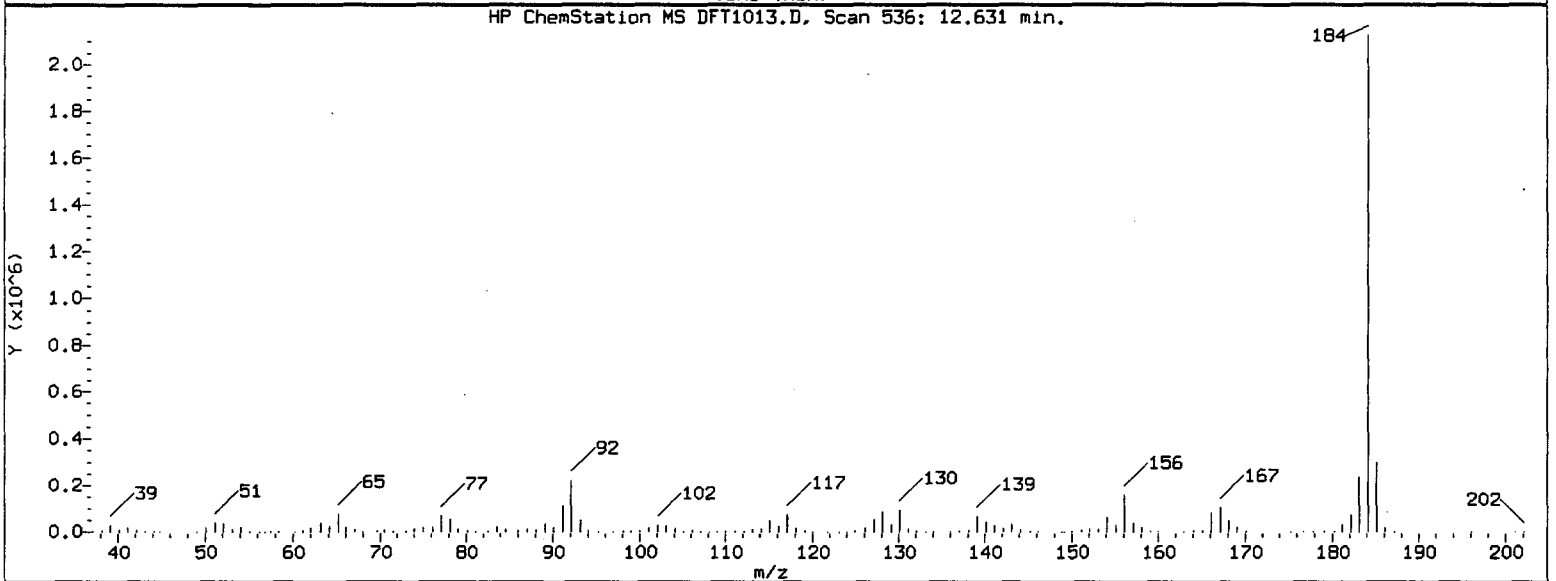
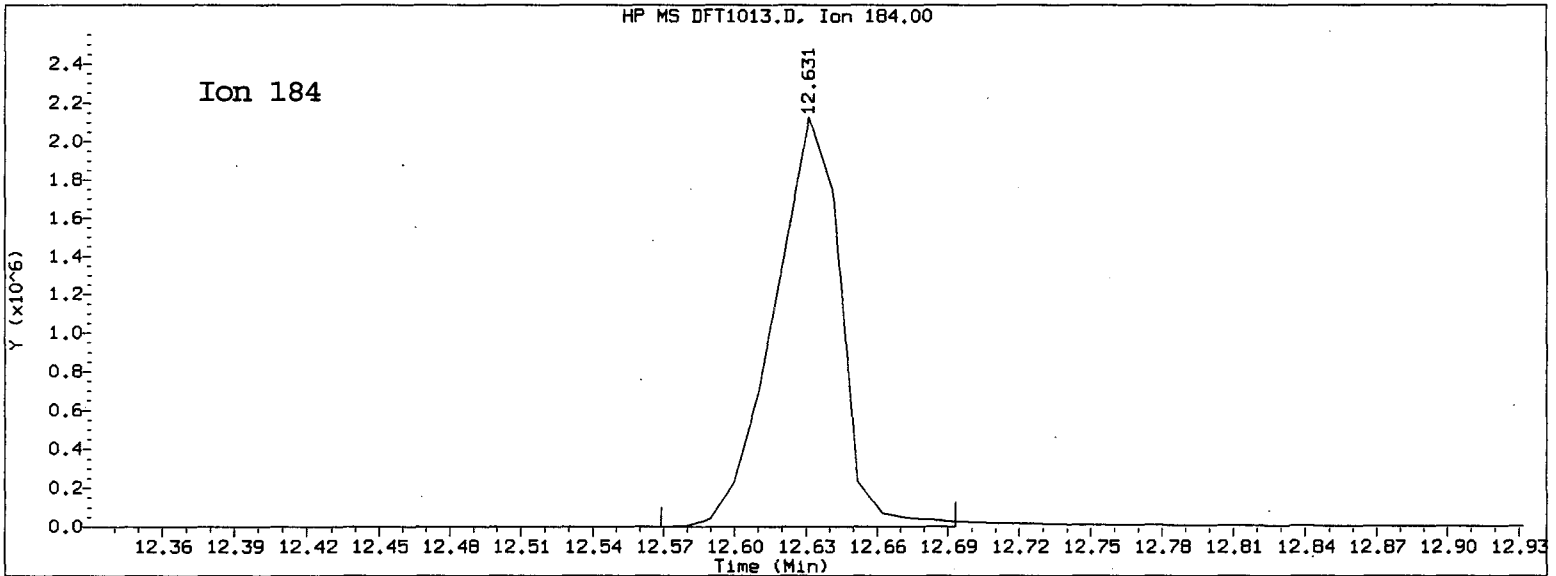
Time1 = 9.100264 Time2 = 9.1284 Time3 = 9.15722  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 1.024 Maximum Allowed = 5.0

Report Date: 10/13/2010 13:13

Datafile Analyzed: //SV5/C/chem/sv5.i/101310.B/DFT1013.D/DFT1013.D  
Method Used: \\SV5\C\chem\sv5.i\101310.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 13-OCT-2010 12:55 Operator: srs  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



**Benzidine**

=====

Exp. RT = 12.911

Found RT = 12.631

Time1 = 12.59903      Time2 = 12.6311      Time3 = 12.65319

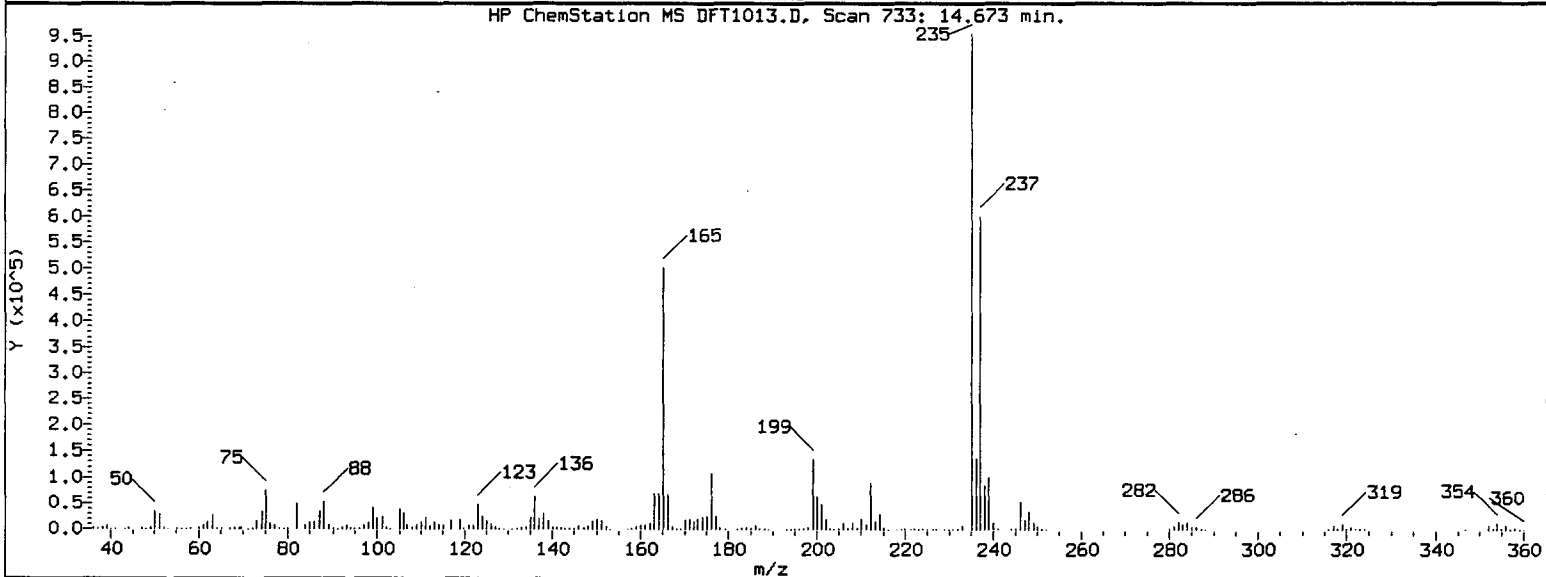
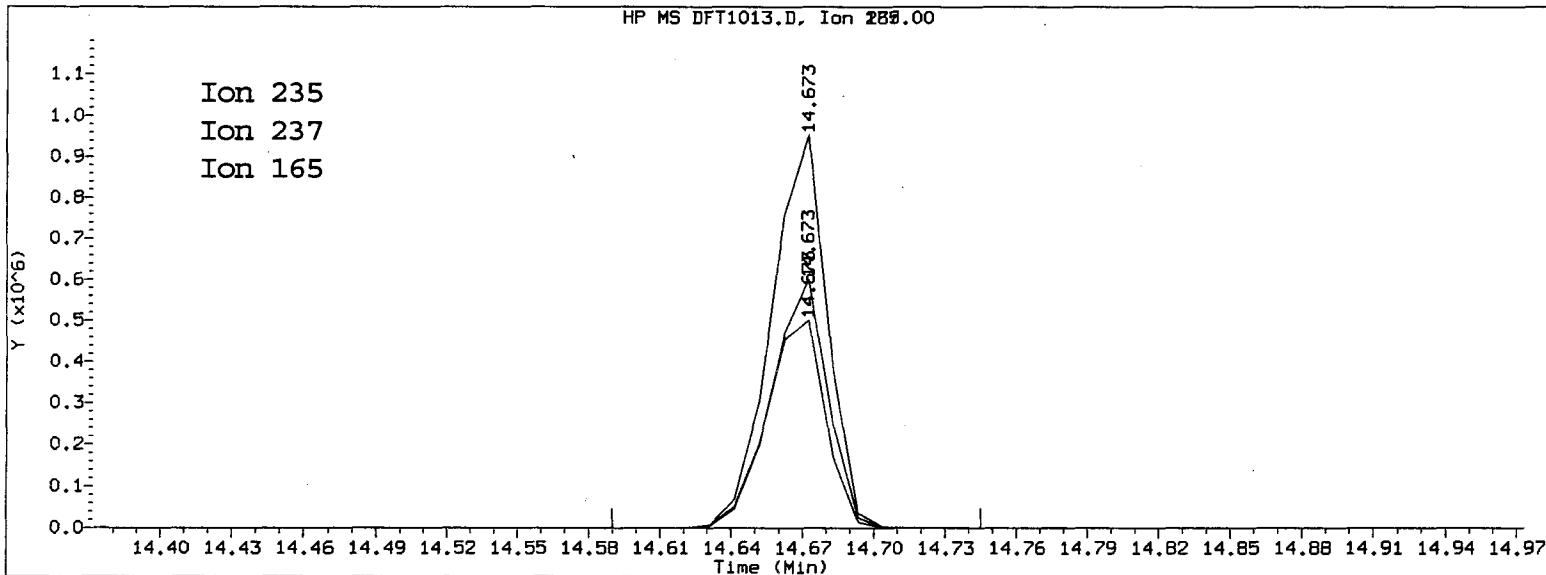
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.689    Maximum Allowed = 3.0

Report Date: 10/13/2010 13:13

Datafile Analyzed: //SV5/C/chem/sv5.i/101310.B/DFT1013.D/DFT1013.D  
Method Used: \\SV5\C\chem\sv5.i\101310.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 13-OCT-2010 12:55 Operator: srs  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDT

=====

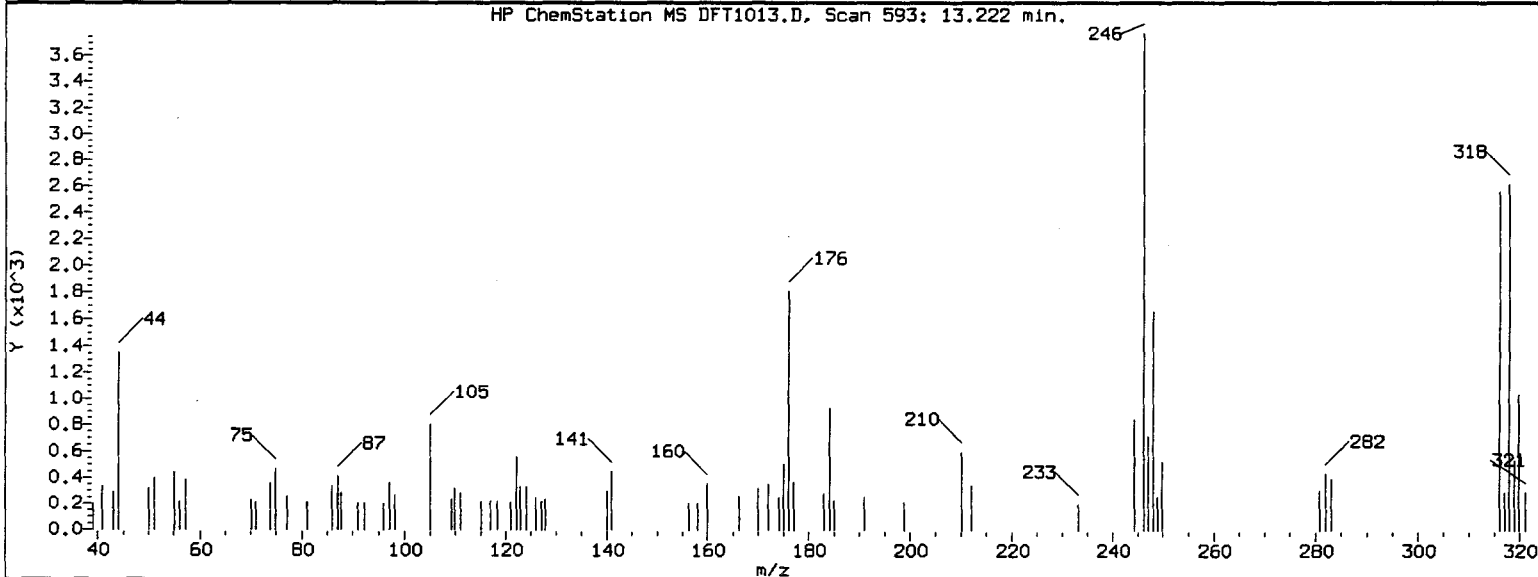
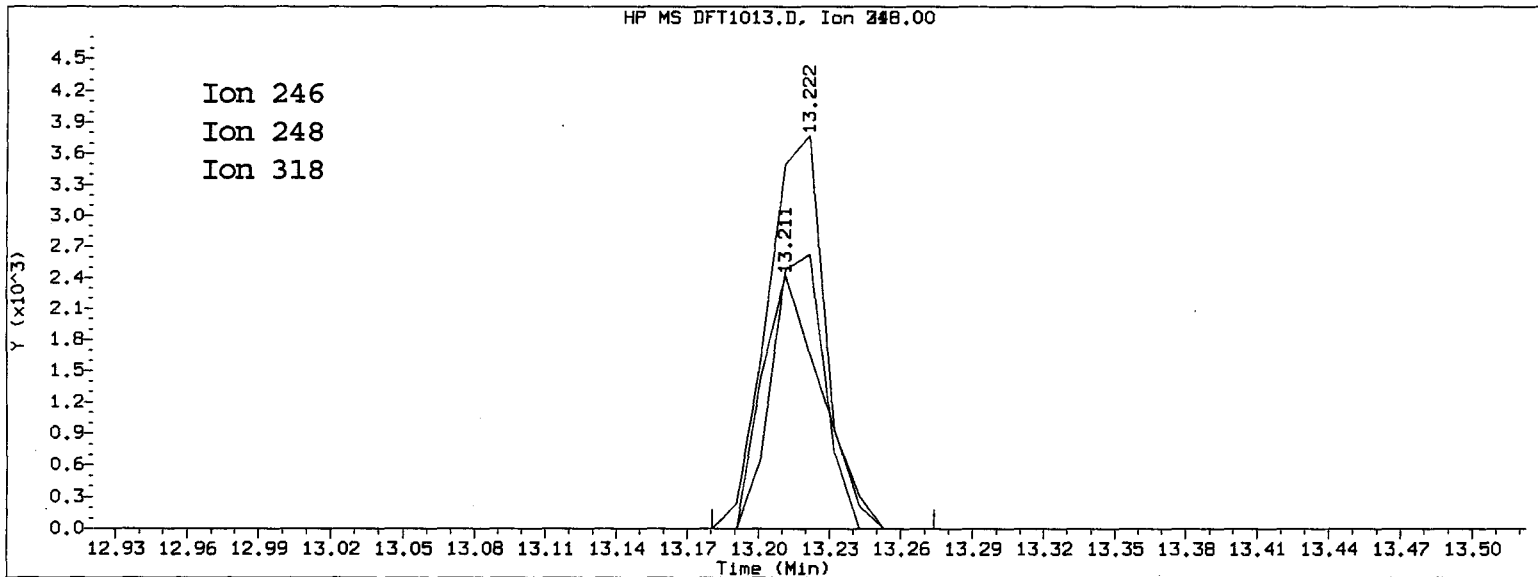
Exp. RT = 14.942

Found RT = 14.673

| Mass | Area    | Ratio  |
|------|---------|--------|
| 235  | 1565850 | 100.00 |
| 237  | 994932  | 63.54  |
| 165  | 874699  | 55.86  |

Report Date: 10/13/2010 13:13

Datafile Analyzed: //SV5/C/chem/sv5.i/101310.B/DFT1013.D/DFT1013.D  
Method Used: \\SV5\C\chem\sv5.i\101310.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 13-OCT-2010 12:55 Operator: srs  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDE

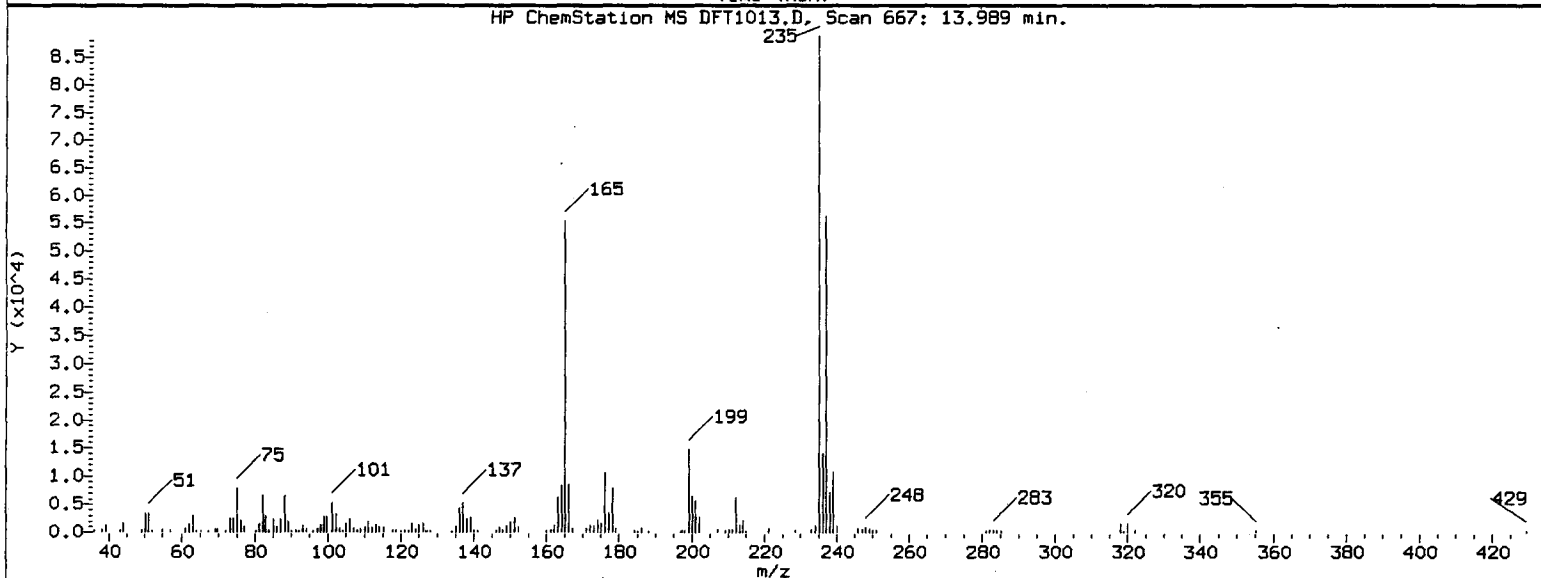
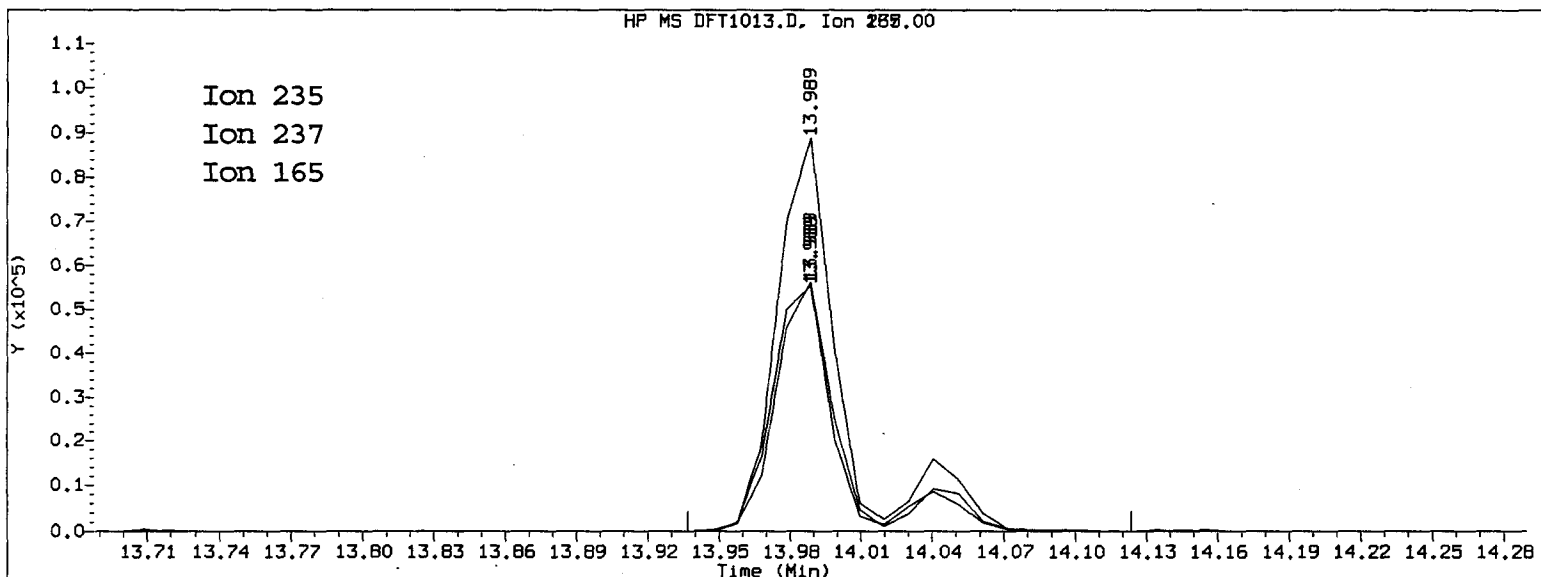
=====  
Exp. RT = 13.470  
Found RT = 13.222

| Mass | Area | Ratio  |
|------|------|--------|
| 246  | 6440 | 100.00 |
| 248  | 4153 | 64.48  |
| 318  | 0    | 0.00   |



Report Date: 10/13/2010 13:13

Datafile Analyzed: //SV5/C/chem/sv5.i/101310.B/DFT1013.D/DFT1013.D  
Method Used: \\SV5\C\chem\sv5.i\101310.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 13-OCT-2010 12:55 Operator: srs  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



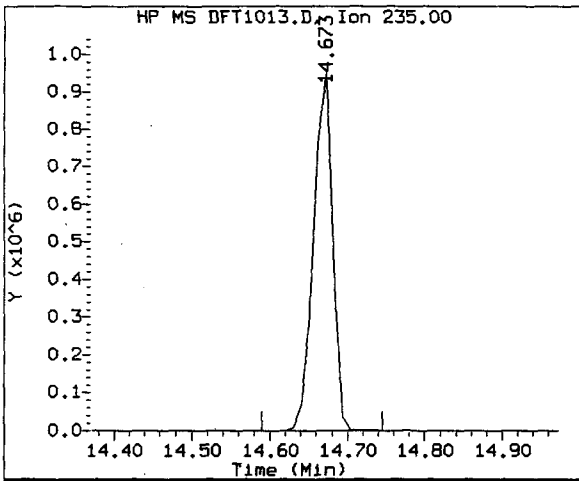
4,4'-DDD

=====

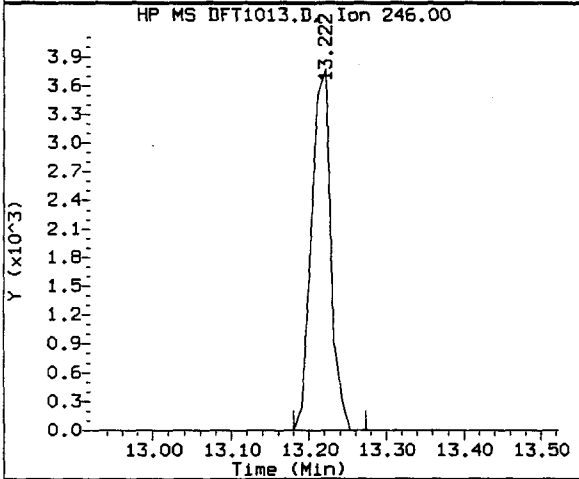
Exp. RT = 14.248

Found RT = 13.989

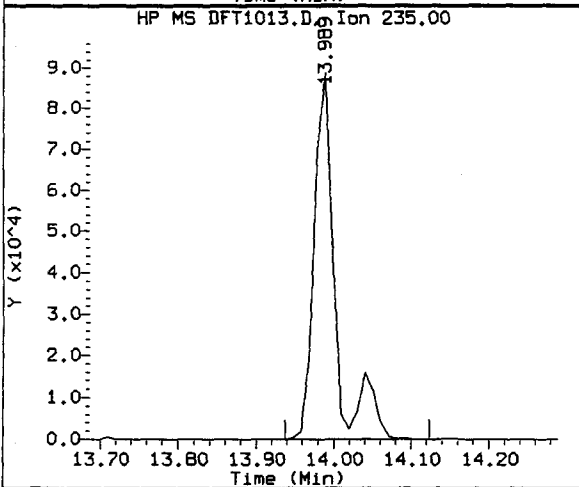
| Mass | Area   | Ratio  |
|------|--------|--------|
| 235  | 166535 | 100.00 |
| 237  | 106043 | 63.68  |
| 165  | 106284 | 63.82  |



Compound: 4,4'-DDT  
 Quant Mass: 235  
 RT: 14.673  
 Area: 1565850



Compound: 4,4'-DDE  
 Quant Mass: 246  
 RT: 13.222  
 Area: 6440



Compound: 4,4'-DDD  
 Quant Mass: 235  
 RT: 13.989  
 Area: 166535

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound       | Response | %Breakdown | Max Allowed | Test |
|----------------|----------|------------|-------------|------|
| 4,4'-DDD + DDE | 172975   | 9.9        | 20.5        | PASS |

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\101310.B\DFT1013.D  
 Lab Smp Id: DFTPP 50ug/ml  
 Inj Date : 13-OCT-2010 12:55  
 Operator : srs  
 Smp Info : DFTPP 50ug/ml;  
 Misc Info : 50ul DFTPP 10MSSV0129  
 Comment :  
 Method : \\SV5\C\chem\sv5.i\101310.B\DFTPP.m  
 Meth Date : 17-Aug-2010 14:10 scotts  
 Cal Date :  
 Als bottle: 96  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: SV5

Inst ID: sv5.i  
 Quant Type: ISTD  
 Cal File:  
 QC Sample: DFTPP  
 Compound Sublist: all.sub  
 Sample Matrix: None

CONCENTRATIONS

| RT      | EXP RT | REL RT   | MASS | RESPONSE         | ON-COL ( ug/L) | FINAL ( ug/L) | TARGET RANGE  | RATIO  |
|---------|--------|----------|------|------------------|----------------|---------------|---------------|--------|
| -----   |        |          |      |                  |                |               |               |        |
| 1 dftpp |        |          |      | CAS #: 5074-71-5 |                |               |               |        |
| 10.589  | 10.713 | ( 0.000) | 198  | 181824           |                |               | 0.00- 100.00  | 100.00 |
| 10.589  | 11.201 | ( 0.000) | 51   | 99608            |                |               | 30.00- 80.00  | 54.78  |
| 10.589  | 11.201 | ( 0.000) | 68   | 1376             |                |               | 0.00- 2.00    | 1.49   |
| 10.589  | 11.201 | ( 0.000) | 69   | 92136            |                |               | 0.00- 0.00    | 50.67  |
| 10.589  | 11.201 | ( 0.000) | 70   | 605              |                |               | 0.00- 2.00    | 0.66   |
| 10.589  | 11.201 | ( 0.000) | 127  | 108264           |                |               | 25.00- 75.00  | 59.54  |
| 10.589  | 11.201 | ( 0.000) | 197  | 0                | 0.0            | 0.0           | 0.00- 1.00    | 0.00   |
| 10.589  | 11.201 | ( 0.000) | 199  | 12433            |                |               | 5.00- 9.00    | 6.84   |
| 10.589  | 11.201 | ( 0.000) | 275  | 36712            |                |               | 10.00- 30.00  | 20.19  |
| 10.589  | 11.201 | ( 0.000) | 365  | 4128             |                |               | 0.75- 0.00    | 2.27   |
| 10.589  | 11.201 | ( 0.000) | 441  | 16058            |                |               | 0.01- 99.99   | 83.01  |
| 10.589  | 11.201 | ( 0.000) | 442  | 102336           |                |               | 40.00- 110.00 | 56.28  |
| 10.589  | 11.201 | ( 0.000) | 443  | 19344            |                |               | 15.00- 24.00  | 18.90  |
| -----   |        |          |      |                  |                |               |               |        |

Date : 13-OCT-2010 12:55

Client ID:

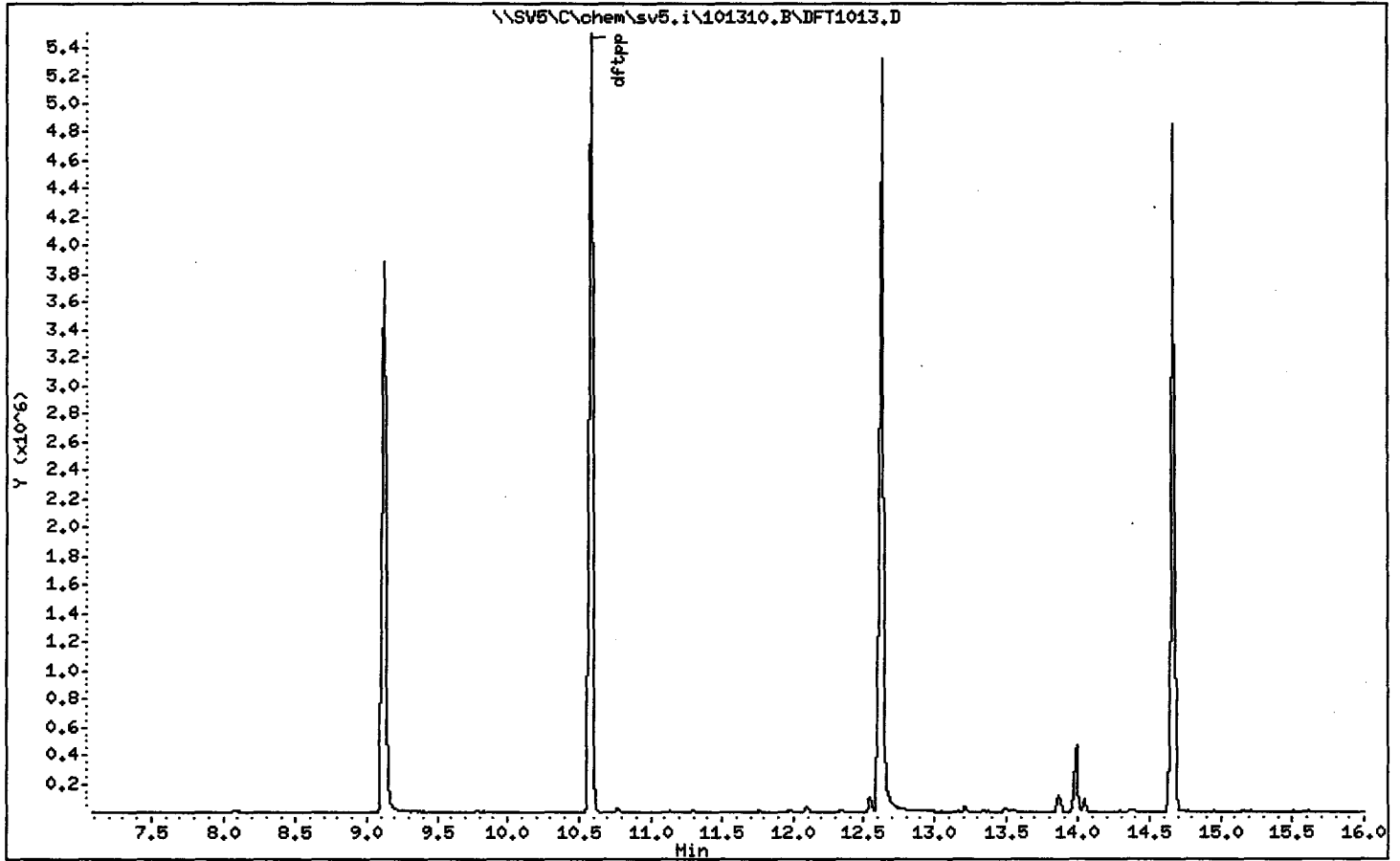
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00



Date : 13-OCT-2010 12:55

Client ID:

Instrument: sv5.i

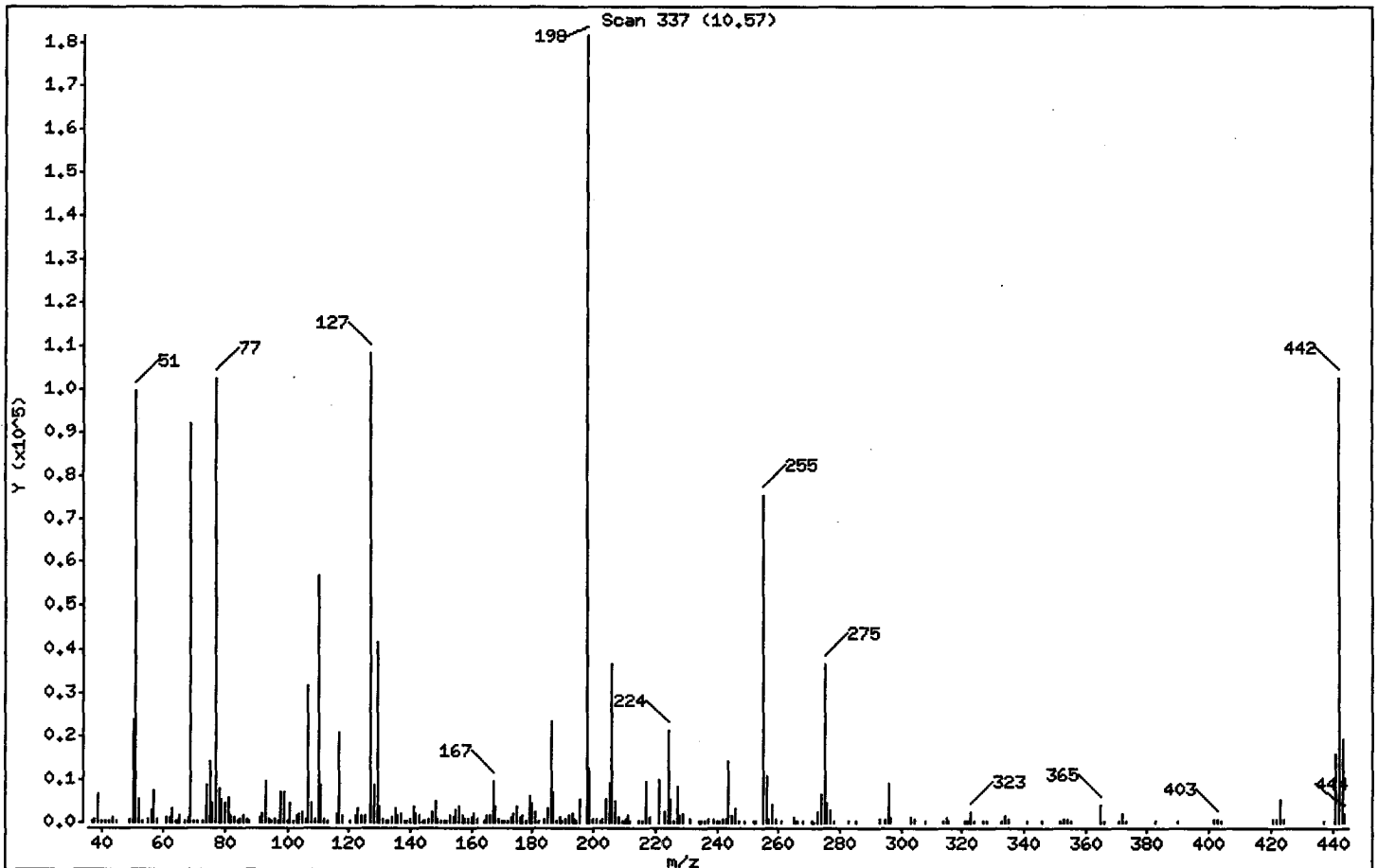
Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

1 dftpp



| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00               |
| 51  | 30.00 - 80.00% of mass 198         | 54.78                |
| 68  | Less than 2.00% of mass 69         | 0.76 ( 1.49)         |
| 69  | Mass 69 relative abundance         | 50.67                |
| 70  | Less than 2.00% of mass 69         | 0.33 ( 0.66)         |
| 127 | 25.00 - 75.00% of mass 198         | 59.54                |
| 197 | Less than 1.00% of mass 198        | 0.00                 |
| 199 | 5.00 - 9.00% of mass 198           | 6.84                 |
| 275 | 10.00 - 30.00% of mass 198         | 20.19                |
| 365 | Greater than 0.75% of mass 198     | 2.27                 |
| 441 | Present, but less than mass 443    | 8.83                 |
| 442 | 40.00 - 110.00% of mass 198        | 56.28                |
| 443 | 15.00 - 24.00% of mass 442         | 10.64 ( 18.90)       |

Date : 13-OCT-2010 12:55

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT1013.D  
 Spectrum: Scan 337 (10.57)  
 Location of Maximum: 198.00  
 Number of points: 255

| m/z   | Y      | m/z    | Y      | m/z    | Y      | m/z    | Y     |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 37.10 | 430    | 111.00 | 8612   | 179.00 | 6458   | 257.00 | 906   |
| 38.10 | 1019   | 112.00 | 983    | 180.00 | 4595   | 258.10 | 4288  |
| 39.10 | 6786   | 113.10 | 625    | 181.00 | 2476   | 259.10 | 777   |
| 40.00 | 532    | 116.00 | 2038   | 181.90 | 225    | 261.10 | 361   |
| 41.20 | 442    | 117.00 | 20752  | 184.00 | 677    | 264.90 | 1373  |
| 42.90 | 218    | 118.00 | 1564   | 185.10 | 3157   | 265.70 | 262   |
| 44.00 | 1311   | 120.10 | 408    | 186.10 | 23608  | 266.10 | 270   |
| 45.10 | 359    | 122.00 | 1591   | 187.10 | 6996   | 268.10 | 308   |
| 49.20 | 838    | 123.00 | 3283   | 188.10 | 541    | 271.10 | 601   |
| 50.10 | 24008  | 124.00 | 1764   | 189.00 | 1075   | 271.90 | 202   |
| 51.10 | 99608  | 125.00 | 1661   | 190.00 | 279    | 273.10 | 2677  |
| 52.10 | 5366   | 127.00 | 108264 | 191.00 | 656    | 274.00 | 6499  |
| 53.20 | 306    | 128.00 | 8576   | 192.00 | 1710   | 275.00 | 36712 |
| 55.00 | 726    | 129.00 | 41920  | 193.10 | 1989   | 276.10 | 4417  |
| 56.00 | 3043   | 130.00 | 3672   | 194.10 | 676    | 277.00 | 2893  |
| 57.00 | 7386   | 131.00 | 761    | 194.80 | 283    | 278.10 | 366   |
| 58.00 | 712    | 132.00 | 233    | 196.00 | 5612   | 283.00 | 602   |
| 61.00 | 1293   | 132.60 | 257    | 198.00 | 181824 | 285.10 | 436   |
| 62.10 | 1186   | 133.00 | 237    | 199.00 | 12433  | 293.00 | 741   |
| 63.00 | 3383   | 134.00 | 1367   | 200.00 | 967    | 295.10 | 645   |
| 63.90 | 365    | 135.00 | 3413   | 201.20 | 778    | 296.00 | 9207  |
| 64.30 | 409    | 136.00 | 1846   | 202.20 | 478    | 296.90 | 1284  |
| 65.10 | 1561   | 137.00 | 1896   | 202.90 | 1016   | 303.10 | 1380  |
| 66.90 | 276    | 138.00 | 336    | 204.10 | 5237   | 304.10 | 629   |
| 68.20 | 1376   | 139.00 | 212    | 205.00 | 9293   | 307.90 | 225   |
| 69.00 | 92136  | 140.10 | 838    | 206.10 | 36960  | 314.00 | 455   |
| 70.10 | 605    | 141.00 | 3813   | 207.10 | 5063   | 315.00 | 1324  |
| 71.30 | 365    | 142.00 | 1987   | 208.00 | 1411   | 315.90 | 500   |
| 73.10 | 560    | 143.00 | 1646   | 209.20 | 392    | 320.90 | 475   |
| 74.10 | 8697   | 144.10 | 325    | 209.90 | 562    | 321.80 | 285   |
| 75.00 | 14054  | 145.00 | 288    | 210.50 | 801    | 322.10 | 281   |
| 76.10 | 4633   | 146.00 | 864    | 211.10 | 1789   | 323.00 | 2687  |
| 77.10 | 102216 | 147.00 | 2581   | 211.80 | 499    | 324.10 | 580   |
| 78.10 | 7872   | 148.10 | 5189   | 215.00 | 587    | 327.00 | 464   |
| 79.00 | 5490   | 149.00 | 877    | 216.00 | 611    | 328.10 | 230   |

Date : 13-OCT-2010 12:55

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT1013.D  
 Spectrum: Scan 337 (10.57)  
 Location of Maximum: 198.00  
 Number of points: 255

| m/z    | Y     | m/z    | Y    | m/z    | Y     | m/z    | Y      |
|--------|-------|--------|------|--------|-------|--------|--------|
| 80.00  | 4728  | 150.00 | 354  | 217.00 | 9557  | 333.00 | 213    |
| 81.00  | 5880  | 151.00 | 534  | 218.00 | 1208  | 334.10 | 1822   |
| 82.00  | 1695  | 151.60 | 509  | 221.00 | 10074 | 335.10 | 763    |
| 83.00  | 1381  | 152.00 | 558  | 223.00 | 2433  | 341.10 | 351    |
| 83.90  | 349   | 153.00 | 1520 | 224.10 | 21448 | 346.10 | 328    |
| 85.00  | 714   | 154.00 | 1445 | 225.10 | 5546  | 352.10 | 556    |
| 86.00  | 1570  | 155.00 | 2810 | 226.10 | 593   | 353.00 | 638    |
| 87.00  | 834   | 156.10 | 3933 | 227.00 | 8210  | 354.00 | 878    |
| 88.00  | 353   | 157.00 | 1549 | 228.00 | 1746  | 355.10 | 234    |
| 91.00  | 1284  | 158.00 | 1002 | 229.10 | 1891  | 365.00 | 4128   |
| 92.00  | 2015  | 159.00 | 944  | 231.10 | 682   | 366.00 | 618    |
| 93.00  | 9553  | 160.10 | 1312 | 234.10 | 474   | 371.10 | 288    |
| 94.00  | 643   | 161.00 | 2286 | 235.00 | 492   | 372.00 | 1889   |
| 95.00  | 212   | 162.10 | 841  | 235.90 | 487   | 372.90 | 604    |
| 96.00  | 648   | 164.10 | 611  | 237.00 | 703   | 382.90 | 463    |
| 97.20  | 377   | 165.00 | 1563 | 239.00 | 749   | 390.10 | 218    |
| 98.00  | 6898  | 166.10 | 1736 | 240.10 | 262   | 401.90 | 880    |
| 99.00  | 7148  | 167.10 | 9664 | 241.00 | 590   | 403.00 | 906    |
| 100.00 | 593   | 168.00 | 3966 | 242.00 | 985   | 404.10 | 266    |
| 101.00 | 4525  | 169.10 | 964  | 243.20 | 797   | 420.90 | 787    |
| 101.90 | 248   | 170.00 | 462  | 244.10 | 14285 | 422.00 | 865    |
| 103.10 | 1558  | 170.90 | 458  | 245.00 | 1794  | 423.10 | 5359   |
| 104.00 | 2076  | 171.90 | 603  | 246.00 | 3326  | 424.00 | 963    |
| 105.00 | 2352  | 173.00 | 1133 | 247.10 | 358   | 437.30 | 276    |
| 106.10 | 854   | 174.00 | 2010 | 248.90 | 468   | 441.00 | 16058  |
| 107.00 | 31624 | 175.10 | 3647 | 252.10 | 275   | 442.00 | 102336 |
| 108.00 | 4760  | 176.00 | 1240 | 253.00 | 377   | 443.00 | 19344  |
| 109.10 | 1008  | 177.00 | 1552 | 255.00 | 75144 | 444.00 | 2105   |
| 110.00 | 56800 | 178.00 | 380  | 256.10 | 10928 |        |        |

TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\101310.B\S101301.D  
 Lab Smp Id: L79L71AA G0J110000- Client Smp ID: 0284217  
 Inj Date : 13-OCT-2010 14:20  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L79L71AA G0J110000-217B;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0284217;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\101310.B\8270f.m  
 Meth Date : 13-Oct-2010 13:44 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Uf            | 1.000    | ng unit correction factor       |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vi            | 1.000    | Volume injected (uL)            |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                    | QUANT | SIG |                        |        |         |        |          | CONCENTRATIONS     |                  |
|------------------------------|-------|-----|------------------------|--------|---------|--------|----------|--------------------|------------------|
|                              |       |     | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | ON-COLUMN<br>( NG) | FINAL<br>( ug/L) |
| * 1 1,4-Dichlorobenzene-d4   | 152   |     | 3.872                  | 3.872  | (1.000) | 111249 | 40.0000  | (Q)                |                  |
| * 2 Naphthalene-d8           | 136   |     | 5.281                  | 5.281  | (1.000) | 473399 | 40.0000  |                    |                  |
| * 3 Acenaphthene-d10         | 164   |     | 7.374                  | 7.374  | (1.000) | 259668 | 40.0000  |                    |                  |
| * 4 Phenanthrene-d10         | 188   |     | 9.292                  | 9.302  | (1.000) | 422002 | 40.0000  |                    |                  |
| * 5 Chrysene-d12             | 240   |     | 13.654                 | 13.654 | (1.000) | 385281 | 40.0000  |                    |                  |
| * 6 Perylene-d12             | 264   |     | 16.027                 | 16.027 | (1.000) | 380367 | 40.0000  |                    |                  |
| \$ 7 2-Fluorophenol          | 112   |     | 2.649                  | 2.649  | (0.684) | 239328 | 61.0327  | 61.03 (R)          |                  |
| \$ 8 Phenol-d5               | 99    |     | 3.530                  | 3.530  | (0.912) | 328482 | 66.6157  | 66.62 (R)          |                  |
| \$ 10 1,2-Dichlorobenzene-d4 | 152   |     | 4.069                  | 4.068  | (1.051) | 97094  | 35.4376  | 35.44 (q)          |                  |
| \$ 11 Nitrobenzene-d5        | 82    |     | 4.493                  | 4.493  | (0.851) | 129791 | 32.3699  | 32.37 (R)          |                  |
| \$ 12 2-Fluorobiphenyl       | 172   |     | 6.587                  | 6.587  | (0.893) | 273511 | 32.6982  | 32.70 (R)          |                  |
| \$ 13 2,4,6-Tribromophenol   | 330   |     | 8.380                  | 8.379  | (1.136) | 102596 | 90.9254  | 90.92 (R)          |                  |
| \$ 14 Terphenyl-d14          | 244   |     | 11.893                 | 11.893 | (0.871) | 320303 | 42.2062  | 42.21 (R)          |                  |
| 108 Hexachlorobenzene        | 284   |     | Compound Not Detected. |        |         |        |          |                    |                  |

QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- R - Spike/Surrogate failed recovery limits.
- q - Qualifier signal exceeded ratio warning limit.

*shp/ko*



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INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S101301.D  
 Lab Smp Id: L79171AA G0J110000-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\sv5\c\chem\sv5.i\101310.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0284217;8270F.M

Calibration Date: 13-OCT-2010  
 Calibration Time: 13:15  
 Client Smp ID: 0284217  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|---------------------|----------|------------|---------|--------|--------|
|                     |          | LOWER      | UPPER   |        |        |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 111249 | -9.28  |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 473399 | -10.77 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 259668 | -8.09  |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 422002 | -8.80  |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 385281 | -11.60 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 380367 | -9.93  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.87     | 3.37     | 4.37  | 3.87   | 0.00  |
| 2 Naphthalene-d8    | 5.28     | 4.78     | 5.78  | 5.28   | 0.00  |
| 3 Acenaphthene-d10  | 7.37     | 6.87     | 7.87  | 7.37   | 0.00  |
| 4 Phenanthrene-d10  | 9.30     | 8.80     | 9.80  | 9.29   | -0.11 |
| 5 Chrysene-d12      | 13.65    | 13.15    | 14.15 | 13.65  | 0.00  |
| 6 Perylene-d12      | 16.03    | 15.53    | 16.53 | 16.03  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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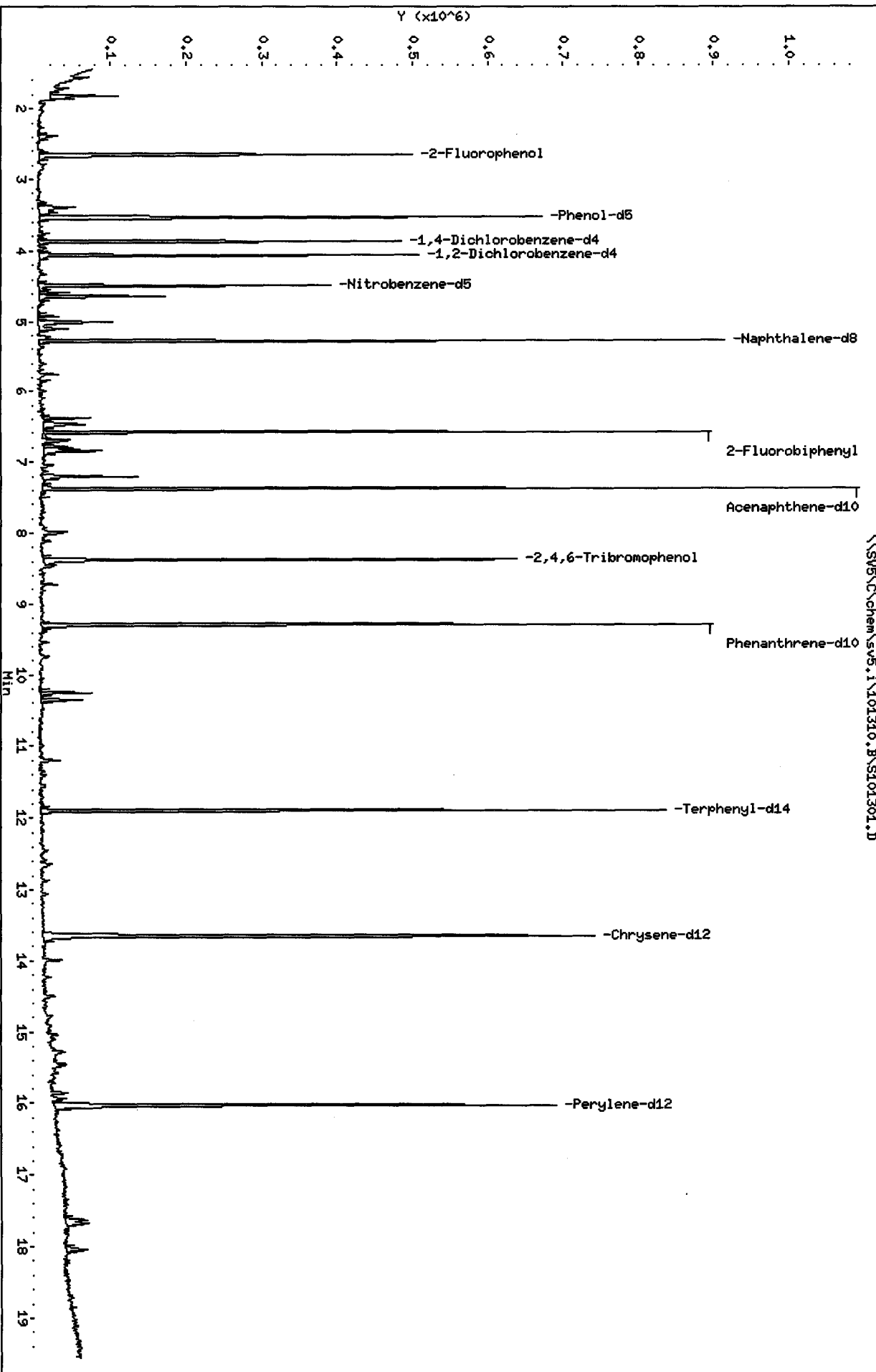
RECOVERY REPORT

Client Name: Client SDG: 090498  
Sample Matrix: GAS Fraction: SV  
Lab Smp Id: L79171AA G0J110000- Client Smp ID: 0284217  
Level: LOW Operator: srs  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: Quant Type: ISTD  
Sublist File: S11JZHCB.SUB  
Method File: \\sv5\c\chem\sv5.i\101310.B\8270f.m  
Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0284217;8270F.M

| SURROGATE COMPOUND       | CONC<br>ADDED<br>ug/L | CONC<br>RECOVERED<br>ug/L | %<br>RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 7 2-Fluorophenol      | 100.0                 | 61.03                     | 61.03          | 41-105 |
| \$ 8 Phenol-d5           | 100.0                 | 66.62                     | 66.62          | 43-122 |
| \$ 10 1,2-Dichlorobenzen | 100.0                 | 35.44                     | 35.44*         | 60-120 |
| \$ 11 Nitrobenzene-d5    | 50.00                 | 32.37                     | 64.74          | 46-118 |
| \$ 12 2-Fluorobiphenyl   | 50.00                 | 32.70                     | 65.40          | 58-105 |
| \$ 13 2,4,6-Tribromophen | 100.0                 | 90.92                     | 90.93          | 61-118 |
| \$ 14 Terphenyl-d14      | 50.00                 | 42.21                     | 84.41          | 69-110 |

Data File: \\SV5\chem\sv5.1\101310.B\101301.D  
 Date: 13-OCT-2010 14:20  
 Client ID: 0284217  
 Sample Info: L7VWHLAA G03010000-373B;0;11000;11000;5  
 Volume Injected (uL): 1.0  
 Column phase:

Instrument: sv5.i  
 Operator: srs  
 Column diameter: 2.00



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Method 8270C

Data file : \\sv5\c\chem\sv5.i\101310.B\S101303.D  
 Lab Smp Id: L79L71AC G0J110000-  
 Inj Date : 13-OCT-2010 15:10  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L79L71AC G0J110000-217C;3;LCS;;1000;;1000;2  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\101310.B\8270f.m  
 Meth Date : 18-Oct-2010 09:13 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 3 QC Sample: LCS  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Uf            | 1.000    | ng unit correction factor       |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vi            | 1.000    | Volume injected (uL)            |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                    | QUANT | SIG | MASS                   | RT     | EXP RT  | REL RT | RESPONSE | CONCENTRATIONS     |                  |
|------------------------------|-------|-----|------------------------|--------|---------|--------|----------|--------------------|------------------|
|                              |       |     |                        |        |         |        |          | ON-COLUMN<br>( NG) | FINAL<br>( ug/L) |
| * 1 1,4-Dichlorobenzene-d4   | 152   |     | 3.861                  | 3.872  | (1.000) | 142107 | 40.0000  |                    |                  |
| * 2 Naphthalene-d8           | 136   |     | 5.281                  | 5.281  | (1.000) | 604458 | 40.0000  |                    |                  |
| * 3 Acenaphthene-d10         | 164   |     | 7.374                  | 7.374  | (1.000) | 324490 | 40.0000  |                    |                  |
| * 4 Phenanthrene-d10         | 188   |     | 9.292                  | 9.302  | (1.000) | 532914 | 40.0000  |                    |                  |
| * 5 Chrysene-d12             | 240   |     | 13.654                 | 13.654 | (1.000) | 494323 | 40.0000  |                    |                  |
| * 6 Perylene-d12             | 264   |     | 16.028                 | 16.027 | (1.000) | 490119 | 40.0000  |                    |                  |
| \$ 7 2-Fluorophenol          | 112   |     | 2.649                  | 2.649  | (0.686) | 347771 | 69.4294  | 69.43              |                  |
| \$ 8 Phenol-d5               | 99    |     | 3.530                  | 3.530  | (0.914) | 470549 | 74.7051  | 74.70              |                  |
| \$ 10 1,2-Dichlorobenzene-d4 | 152   |     | Compound Not Detected. |        |         |        |          |                    |                  |
| \$ 11 Nitrobenzene-d5        | 82    |     | 4.493                  | 4.493  | (0.851) | 190869 | 37.2814  | 37.28              |                  |
| \$ 12 2-Fluorobiphenyl       | 172   |     | 6.587                  | 6.587  | (0.893) | 429165 | 41.0573  | 41.06              |                  |
| \$ 13 2,4,6-Tribromophenol   | 330   |     | 8.380                  | 8.379  | (1.136) | 141883 | 100.624  | 100.6              |                  |
| \$ 14 Terphenyl-d14          | 244   |     | 11.893                 | 11.893 | (0.871) | 416063 | 42.7308  | 42.73              |                  |
| 108 Hexachlorobenzene        | 284   |     | 8.877                  | 8.877  | (0.955) | 265317 | 91.3230  | 91.32              |                  |

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TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S101303.D  
 Lab Smp Id: L79L71AC G0J110000-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\101310.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 13-OCT-2010  
 Calibration Time: 13:15  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 142107 | 15.89 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 604458 | 13.94 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 324490 | 14.85 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 532914 | 15.17 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 494323 | 13.42 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 490119 | 16.06 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.87     | 3.37     | 4.37  | 3.86   | -0.26 |
| 2 Naphthalene-d8    | 5.28     | 4.78     | 5.78  | 5.28   | 0.00  |
| 3 Acenaphthene-d10  | 7.37     | 6.87     | 7.87  | 7.37   | 0.00  |
| 4 Phenanthrene-d10  | 9.30     | 8.80     | 9.80  | 9.29   | -0.11 |
| 5 Chrysene-d12      | 13.65    | 13.15    | 14.15 | 13.65  | 0.00  |
| 6 Perylene-d12      | 16.03    | 15.53    | 16.53 | 16.03  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L79L71AC G0J110000-  
 Level: LOW Operator: srs  
 Data Type: MS DATA SampleType: LCS  
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\101310.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

| SPIKE COMPOUND        | CONC<br>ADDED<br>ug/L | CONC<br>RECOVERED<br>ug/L | %<br>RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 108 Hexachlorobenzene | 100.0                 | 91.32                     | 91.32          | 70-100 |

| SURROGATE COMPOUND       | CONC<br>ADDED<br>ug/L | CONC<br>RECOVERED<br>ug/L | %<br>RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 7 2-Fluorophenol      | 100.0                 | 69.43                     | 69.43          | 41-105 |
| \$ 8 Phenol-d5           | 100.0                 | 74.70                     | 74.71          | 43-122 |
| \$ 10 1,2-Dichlorobenze  | 100.0                 | 0.0000                    | *              | 60-120 |
| \$ 11 Nitrobenzene-d5    | 50.00                 | 37.28                     | 74.56          | 46-118 |
| \$ 12 2-Fluorobiphenyl   | 50.00                 | 41.06                     | 82.11          | 58-105 |
| \$ 13 2,4,6-Tribromophen | 100.0                 | 100.6                     | 100.62         | 61-118 |
| \$ 14 Terphenyl-d14      | 50.00                 | 42.73                     | 85.46          | 69-110 |

Date: 13-OCT-2010 15:10

Instrument: sv5.i

Client ID:

Operator: srs

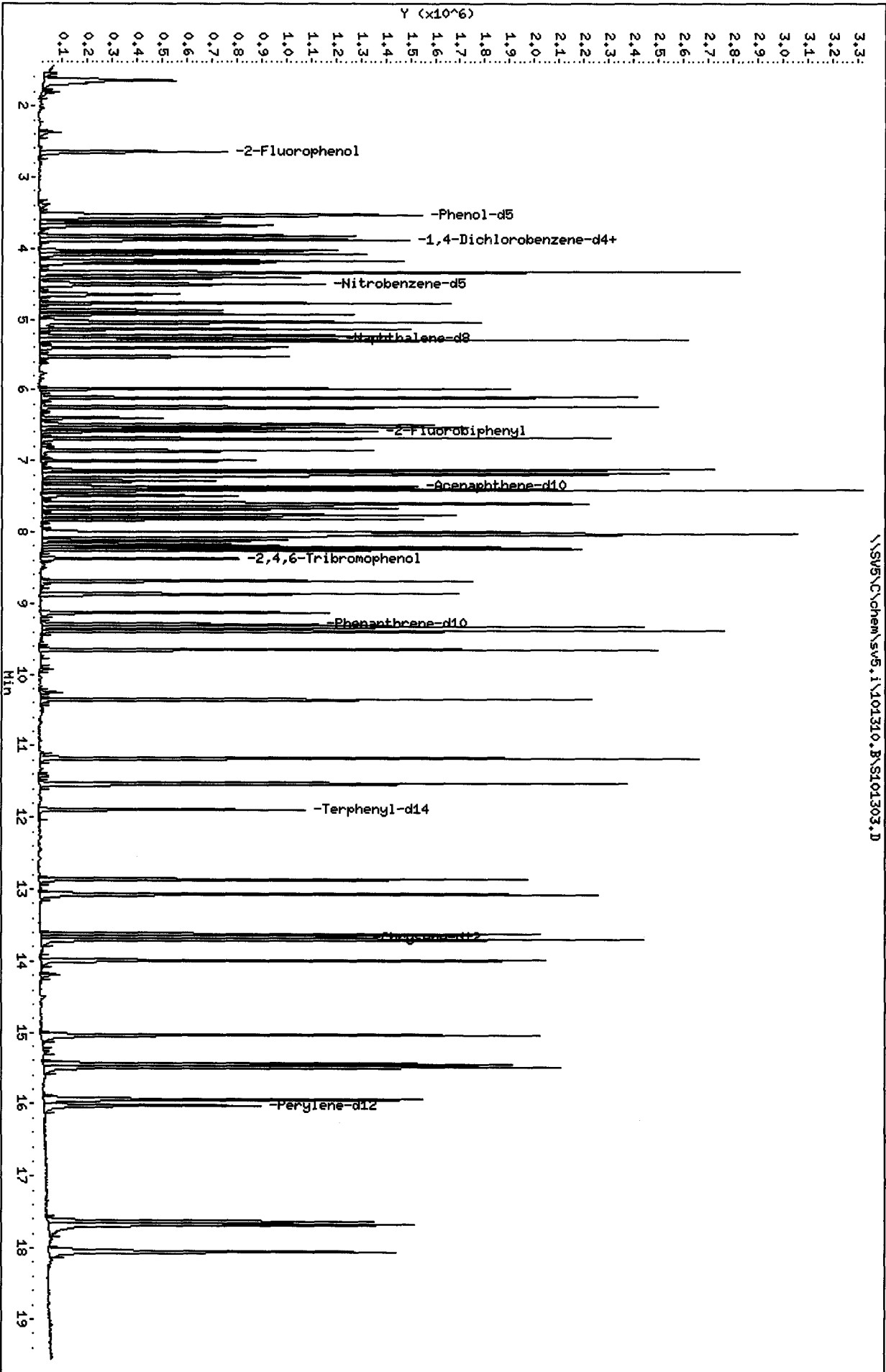
Sample Info: L79L71AC G0J10000-2170;3;1CS;11000;11000;2

Column diameter: 2.00

Volume Injected (uL): 1.0

Column phase:

\\SV5\chem\sv5.i\101310.B.S101303.D



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Method 8270C

Data file : \\sv5\c\chem\sv5.i\101310.B\S101304.D  
 Lab Smp Id: L79L71AD G0J110000-  
 Inj Date : 13-OCT-2010 15:35  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L79L71AD G0J110000-217L;3;LCSD;;1000;;1000;2  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\101310.B\8270f.m  
 Meth Date : 18-Oct-2010 09:13 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 4 QC Sample: LCSD  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Uf            | 1.000    | ng unit correction factor       |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vi            | 1.000    | Volume injected (uL)            |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                    | QUANT SIG | MASS | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS  |               |  |
|------------------------------|-----------|------|------------------------|--------|---------|----------|-----------------|---------------|--|
|                              |           |      |                        |        |         |          | ON-COLUMN ( NG) | FINAL ( ug/L) |  |
| * 1 1,4-Dichlorobenzene-d4   | 152       |      | 3.861                  | 3.872  | (1.000) | 157483   | 40.0000         |               |  |
| * 2 Naphthalene-d8           | 136       |      | 5.281                  | 5.281  | (1.000) | 664785   | 40.0000         |               |  |
| * 3 Acenaphthene-d10         | 164       |      | 7.374                  | 7.374  | (1.000) | 369990   | 40.0000         |               |  |
| * 4 Phenanthrene-d10         | 188       |      | 9.291                  | 9.302  | (1.000) | 590369   | 40.0000         |               |  |
| * 5 Chrysene-d12             | 240       |      | 13.654                 | 13.654 | (1.000) | 571287   | 40.0000         |               |  |
| * 6 Perylene-d12             | 264       |      | 16.027                 | 16.027 | (1.000) | 578494   | 40.0000         |               |  |
| \$ 7 2-Fluorophenol          | 112       |      | 2.649                  | 2.649  | (0.686) | 376640   | 67.8513         | 67.85         |  |
| \$ 8 Phenol-d5               | 99        |      | 3.530                  | 3.530  | (0.914) | 499241   | 71.5216         | 71.52         |  |
| \$ 10 1,2-Dichlorobenzene-d4 | 152       |      | Compound Not Detected. |        |         |          |                 |               |  |
| \$ 11 Nitrobenzene-d5        | 82        |      | 4.493                  | 4.493  | (0.851) | 197732   | 35.1171         | 35.12         |  |
| \$ 12 2-Fluorobiphenyl       | 172       |      | 6.587                  | 6.587  | (0.893) | 471300   | 39.5435         | 39.54         |  |
| \$ 13 2,4,6-Tribromophenol   | 330       |      | 8.379                  | 8.379  | (1.136) | 156690   | 97.4596         | 97.46         |  |
| \$ 14 Terphenyl-d14          | 244       |      | 11.892                 | 11.893 | (0.871) | 461653   | 41.0255         | 41.02         |  |
| 108 Hexachlorobenzene        | 284       |      | 8.877                  | 8.877  | (0.955) | 298020   | 92.5964         | 92.60         |  |

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TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S101304.D  
 Lab Smp Id: L79L71AD G0J110000-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\101310.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 13-OCT-2010  
 Calibration Time: 13:15  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 157483 | 28.43 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 664785 | 25.31 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 369990 | 30.95 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 590369 | 27.59 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 571287 | 31.07 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 578494 | 36.99 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.87     | 3.37     | 4.37  | 3.86   | -0.27 |
| 2 Naphthalene-d8    | 5.28     | 4.78     | 5.78  | 5.28   | -0.00 |
| 3 Acenaphthene-d10  | 7.37     | 6.87     | 7.87  | 7.37   | -0.00 |
| 4 Phenanthrene-d10  | 9.30     | 8.80     | 9.80  | 9.29   | -0.11 |
| 5 Chrysene-d12      | 13.65    | 13.15    | 14.15 | 13.65  | -0.00 |
| 6 Perylene-d12      | 16.03    | 15.53    | 16.53 | 16.03  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica WestSacramento

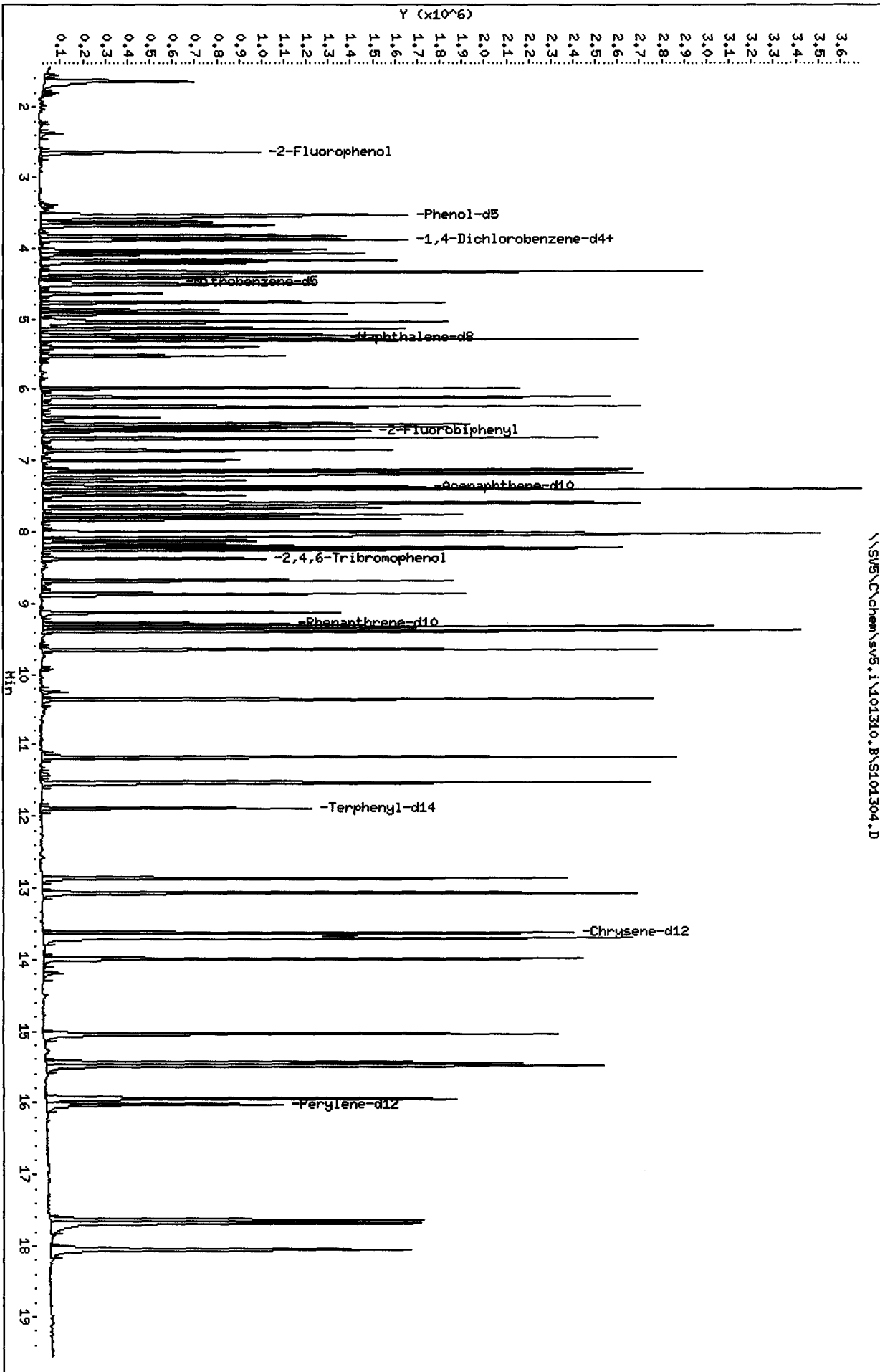
RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L79L71AD G0J110000-  
 Level: LOW Operator: srs  
 Data Type: MS DATA SampleType: LCSD  
 SpikeList File: S11JZHCB.SPK Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\101310.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

| SPIKE COMPOUND        | CONC<br>ADDED<br>ug/L | CONC<br>RECOVERED<br>ug/L | %<br>RECOVERED | LIMITS |
|-----------------------|-----------------------|---------------------------|----------------|--------|
| 108 Hexachlorobenzene | 100.0                 | 92.60                     | 92.60          | 70-100 |

| SURROGATE COMPOUND       | CONC<br>ADDED<br>ug/L | CONC<br>RECOVERED<br>ug/L | %<br>RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 7 2-Fluorophenol      | 100.0                 | 67.85                     | 67.85          | 41-105 |
| \$ 8 Phenol-d5           | 100.0                 | 71.52                     | 71.52          | 43-122 |
| \$ 10 1,2-Dichlorobenze  | 100.0                 | 0.0000                    | *              | 60-120 |
| \$ 11 Nitrobenzene-d5    | 50.00                 | 35.12                     | 70.23          | 46-118 |
| \$ 12 2-Fluorobiphenyl   | 50.00                 | 39.54                     | 79.09          | 58-105 |
| \$ 13 2,4,6-Tribromophen | 100.0                 | 97.46                     | 97.46          | 61-118 |
| \$ 14 Terphenyl-d14      | 50.00                 | 41.02                     | 82.05          | 69-110 |

\\SV5\chem\sv5.i\101310.B\101304.D



TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\101310.B\S101305.D  
 Lab Smp Id: L78WJ1AA G0J090500- Client Smp ID: 0284217  
 Inj Date : 13-OCT-2010 16:00  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L78WJ1AA G0J090500-9;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0284217;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\101310.B\8270F.m  
 Meth Date : 13-Oct-2010 13:44 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Uf            | 1.000    | ng unit correction factor       |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vi            | 1.000    | Volume injected (uL)            |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                    | QUANT SIG | MASS   | RT     | EXP RT  | REL RT | RESPONSE | CONCENTRATIONS     |                  |
|------------------------------|-----------|--------|--------|---------|--------|----------|--------------------|------------------|
|                              |           |        |        |         |        |          | ON-COLUMN<br>( NG) | FINAL<br>( ug/L) |
| * 1 1,4-Dichlorobenzene-d4   | 152       | 3.861  | 3.872  | (1.000) | 147894 | 40.0000  |                    | (Q)              |
| * 2 Naphthalene-d8           | 136       | 5.281  | 5.281  | (1.000) | 634982 | 40.0000  |                    |                  |
| * 3 Acenaphthene-d10         | 164       | 7.374  | 7.374  | (1.000) | 355036 | 40.0000  |                    |                  |
| * 4 Phenanthrene-d10         | 188       | 9.291  | 9.302  | (1.000) | 570365 | 40.0000  |                    |                  |
| * 5 Chrysene-d12             | 240       | 13.644 | 13.654 | (1.000) | 553416 | 40.0000  |                    |                  |
| * 6 Perylene-d12             | 264       | 16.027 | 16.027 | (1.000) | 568417 | 40.0000  |                    |                  |
| \$ 7 2-Fluorophenol          | 112       | 2.649  | 2.649  | (0.686) | 348264 | 66.8072  |                    | 66.81 (R)        |
| \$ 8 Phenol-d5               | 99        | 3.530  | 3.530  | (0.914) | 498180 | 75.9970  |                    | 76.00 (R)        |
| \$ 10 1,2-Dichlorobenzene-d4 | 152       | 4.068  | 4.068  | (1.054) | 113095 | 31.0499  |                    | 31.05 (Q)        |
| \$ 11 Nitrobenzene-d5        | 82        | 4.493  | 4.493  | (0.851) | 194823 | 36.2245  |                    | 36.22 (R)        |
| \$ 12 2-Fluorobiphenyl       | 172       | 6.587  | 6.587  | (0.893) | 439611 | 38.4383  |                    | 38.44 (R)        |
| \$ 13 2,4,6-Tribromophenol   | 330       | 8.380  | 8.379  | (1.136) | 144105 | 93.4071  |                    | 93.41 (R)        |
| \$ 14 Terphenyl-d14          | 244       | 11.893 | 11.893 | (0.872) | 455505 | 41.7863  |                    | 41.79 (R)        |
| 108 Hexachlorobenzene        | 284       | 8.877  | 8.877  | (0.955) | 7373   | 2.37118  |                    | 2.371            |

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 R - Spike/Surrogate failed recovery limits.

*SK 10/15/10*

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S101305.D  
 Lab Smp Id: L78WJ1AA G0J090500-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\101310.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0284217;8270F.M

Calibration Date: 13-OCT-2010  
 Calibration Time: 13:15  
 Client Smp ID: 0284217  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 147894 | 20.61 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 634982 | 19.69 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 355036 | 25.66 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 570365 | 23.26 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 553416 | 26.97 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 568417 | 34.61 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.87     | 3.37     | 4.37  | 3.86   | -0.27 |
| 2 Naphthalene-d8    | 5.28     | 4.78     | 5.78  | 5.28   | 0.00  |
| 3 Acenaphthene-d10  | 7.37     | 6.87     | 7.87  | 7.37   | 0.00  |
| 4 Phenanthrene-d10  | 9.30     | 8.80     | 9.80  | 9.29   | -0.11 |
| 5 Chrysene-d12      | 13.65    | 13.15    | 14.15 | 13.64  | -0.08 |
| 6 Perylene-d12      | 16.03    | 15.53    | 16.53 | 16.03  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica WestSacramento

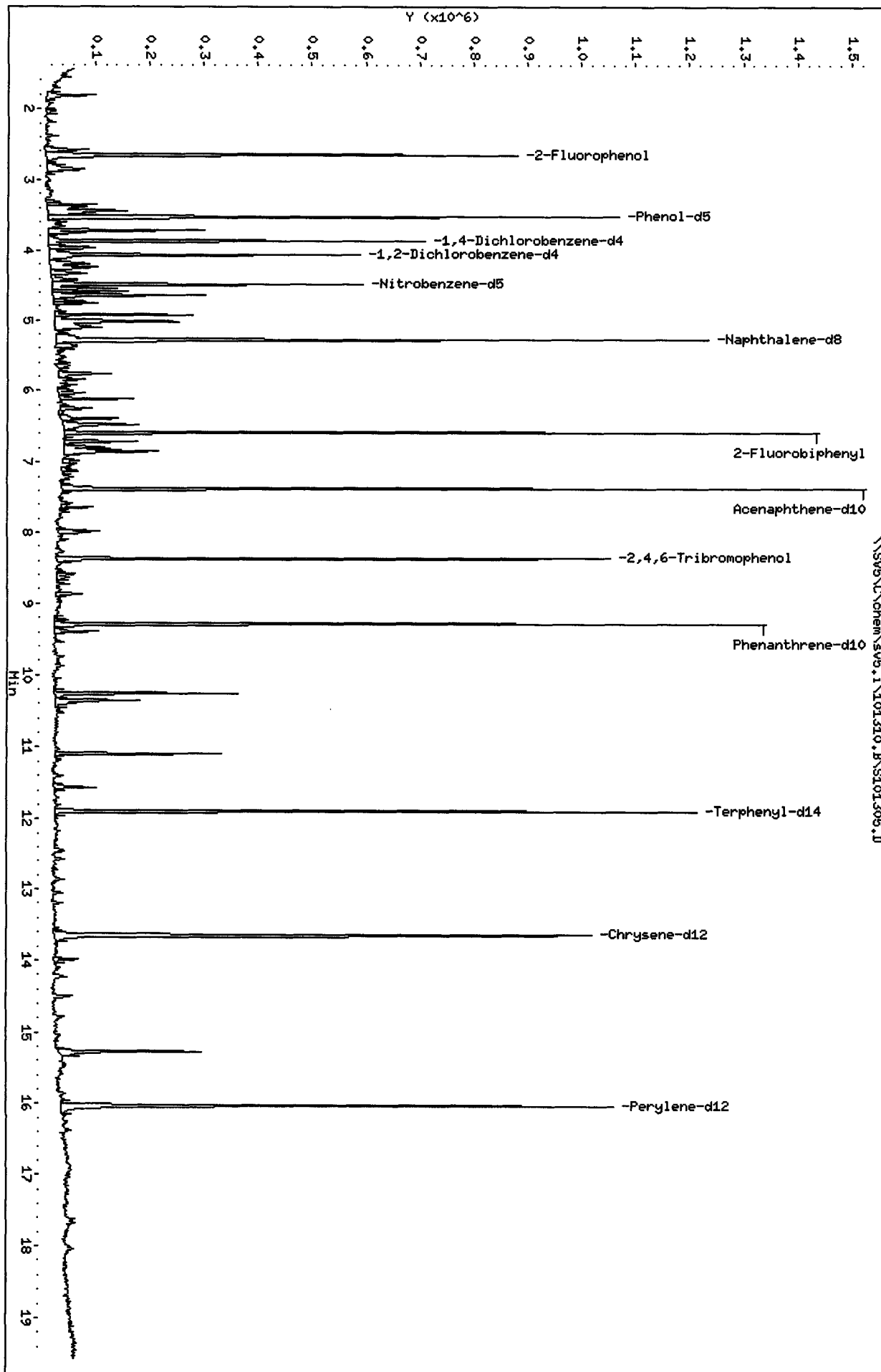
RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L78WJ1AA G0J090500- Client Smp ID: 0284217  
 Level: LOW Operator: srs  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\101310.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0284217;8270F.M

| SURROGATE COMPOUND       | CONC<br>ADDED<br>ug/L | CONC<br>RECOVERED<br>ug/L | %<br>RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 7 2-Fluorophenol      | 100.0                 | 66.81                     | 66.81          | 41-105 |
| \$ 8 Phenol-d5           | 100.0                 | 76.00                     | 76.00          | 43-122 |
| \$ 10 1,2-Dichlorobenzen | 100.0                 | 31.05                     | 31.05*         | 60-120 |
| \$ 11 Nitrobenzene-d5    | 50.00                 | 36.22                     | 72.45          | 46-118 |
| \$ 12 2-Fluorobiphenyl   | 50.00                 | 38.44                     | 76.88          | 58-105 |
| \$ 13 2,4,6-Tribromophen | 100.0                 | 93.41                     | 93.41          | 61-118 |
| \$ 14 Terphenyl-d14      | 50.00                 | 41.79                     | 83.57          | 69-110 |

Data File: \\SV5\C\chem\sv5.i\101310.B\S101305.D  
Date: 13-OCT-2010 16:00  
Client ID: 0284217  
Sample Info: L78MJ1A9 G0J090500-9;0;11000;10000;5  
Volume Injected (uL): 1.0  
Column phase:

Instrument: sv5.i  
Operator: srs  
Column diameter: 2.00



Date : 13-OCT-2010 16:00

Client ID: 0284217

Instrument: sv5.i

Sample Info: L78WJ1AA G0J090500-9;0;;;1000;;1000;5

Volume Injected (uL): 1.0

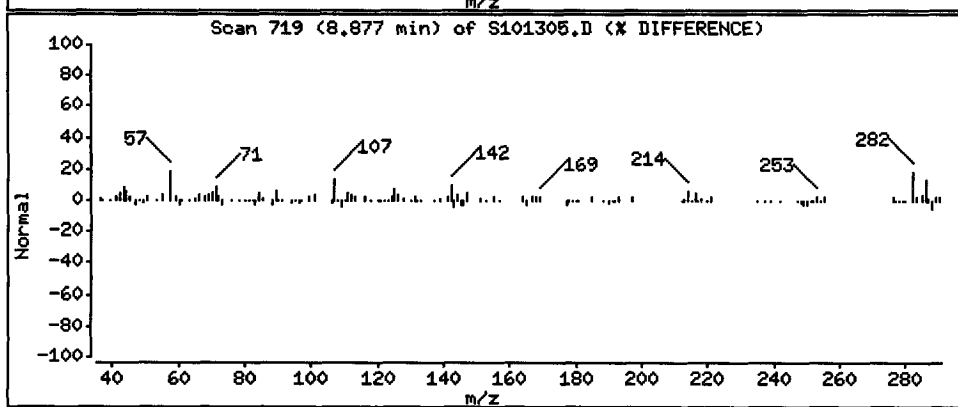
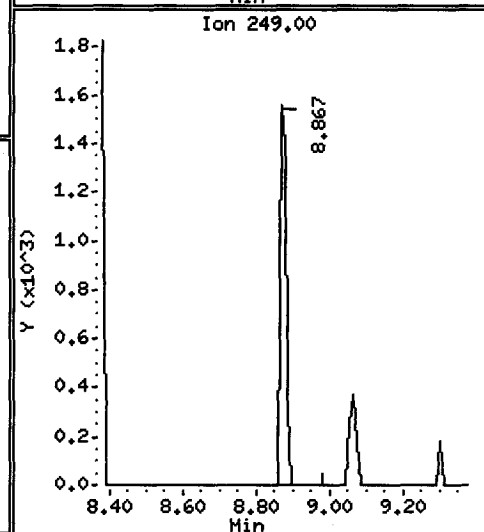
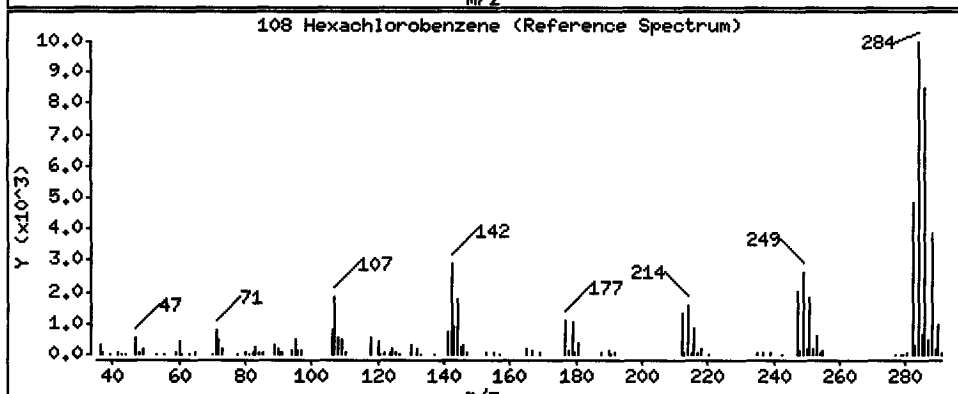
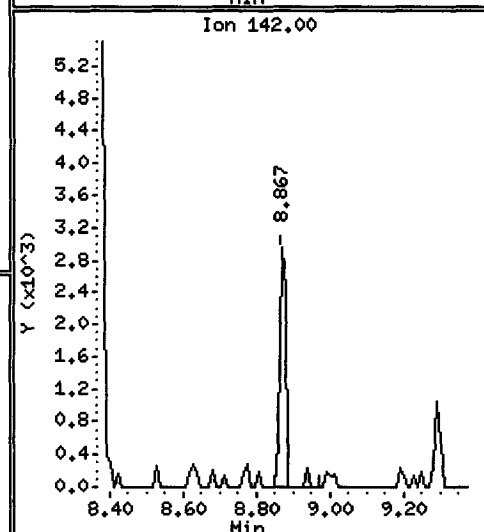
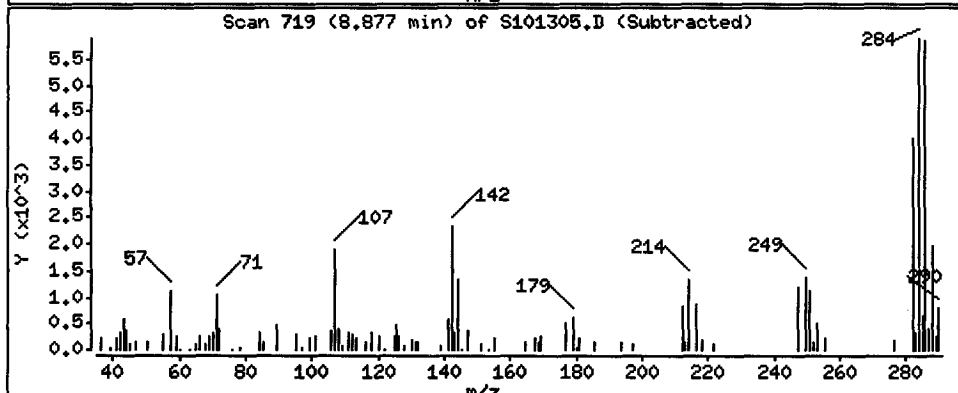
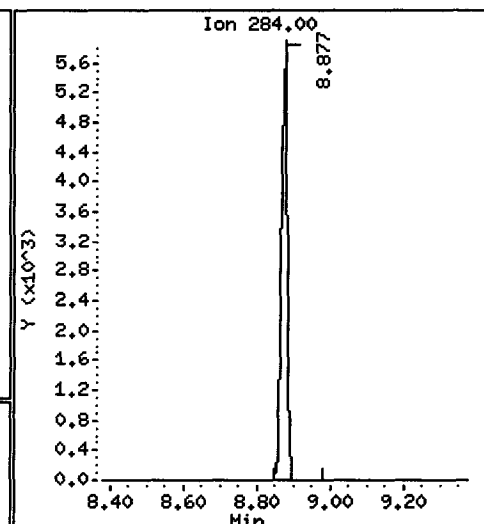
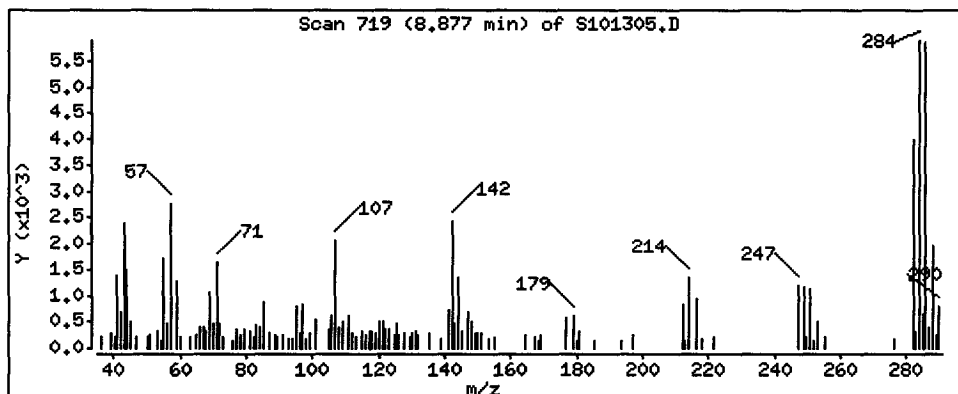
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 2.371 ug/L





TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\101310.B\S101306.D  
 Lab Smp Id: L78WK1AA G0J090500- Client Smp ID: 0284217  
 Inj Date : 13-OCT-2010 16:25  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L78WK1AA G0J090500-10;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0284217;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\101310.B\8270F.m  
 Meth Date : 13-Oct-2010 13:44 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: S11JZHCB.SUB  
 Target Version: 4.14  
 Processing Host: SV5

Concentration Formula: Amt \* DF \* Uf \* Vt / (Vo \* Vi) \* CpndVariable

| Name          | Value    | Description                     |
|---------------|----------|---------------------------------|
| DF            | 1.000    | Dilution Factor                 |
| Uf            | 1.000    | ng unit correction factor       |
| Vt            | 1000.000 | Volume of final extract (uL)    |
| Vo            | 1000.000 | Volume of sample extracted (mL) |
| Vi            | 1.000    | Volume injected (uL)            |
| Cpnd Variable |          | Local Compound Variable         |

| Compounds                    | QUANT SIG | MASS | RT                     | EXP RT | REL RT  | RESPONSE | CONCENTRATIONS     |                  |
|------------------------------|-----------|------|------------------------|--------|---------|----------|--------------------|------------------|
|                              |           |      |                        |        |         |          | ON-COLUMN<br>( NG) | FINAL<br>( ug/L) |
| * 1 1,4-Dichlorobenzene-d4   |           | 152  | 3.861                  | 3.872  | (1.000) | 152465   | 40.0000            | (Q)              |
| * 2 Naphthalene-d8           |           | 136  | 5.281                  | 5.281  | (1.000) | 649844   | 40.0000            |                  |
| * 3 Acenaphthene-d10         |           | 164  | 7.374                  | 7.374  | (1.000) | 355906   | 40.0000            |                  |
| * 4 Phenanthrene-d10         |           | 188  | 9.291                  | 9.302  | (1.000) | 579714   | 40.0000            |                  |
| * 5 Chrysene-d12             |           | 240  | 13.644                 | 13.654 | (1.000) | 526693   | 40.0000            |                  |
| * 6 Perylene-d12             |           | 264  | 16.027                 | 16.027 | (1.000) | 511769   | 40.0000            |                  |
| \$ 7 2-Fluorophenol          |           | 112  | 2.649                  | 2.649  | (0.686) | 352869   | 65.6612            | 65.66 (R)        |
| \$ 8 Phenol-d5               |           | 99   | 3.530                  | 3.530  | (0.914) | 510741   | 75.5773            | 75.58 (R)        |
| \$ 10 1,2-Dichlorobenzene-d4 |           | 152  | 4.068                  | 4.068  | (1.054) | 68091    | 18.1337            | 18.13 (QR)       |
| \$ 11 Nitrobenzene-d5        |           | 82   | 4.493                  | 4.493  | (0.851) | 195950   | 35.6008            | 35.60 (R)        |
| \$ 12 2-Fluorobiphenyl       |           | 172  | 6.587                  | 6.587  | (0.893) | 447187   | 39.0051            | 39.00 (R)        |
| \$ 13 2,4,6-Tribromophenol   |           | 330  | 8.379                  | 8.379  | (1.136) | 151486   | 97.9513            | 97.95 (R)        |
| \$ 14 Terphenyl-d14          |           | 244  | 11.893                 | 11.893 | (0.872) | 474762   | 45.7626            | 45.76 (R)        |
| 108 Hexachlorobenzene        |           | 284  | Compound Not Detected. |        |         |          |                    |                  |

*SA 10/10*

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 R - Spike/Surrogate failed recovery limits.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S101306.D  
 Lab Smp Id: L78WK1AA G0J090500-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\101310.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0284217;8270F.M

Calibration Date: 13-OCT-2010  
 Calibration Time: 13:15  
 Client Smp ID: 0284217  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 152465 | 24.33 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 649844 | 22.49 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 355906 | 25.97 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 579714 | 25.28 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 526693 | 20.84 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 511769 | 21.19 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.87     | 3.37     | 4.37  | 3.86   | -0.27 |
| 2 Naphthalene-d8    | 5.28     | 4.78     | 5.78  | 5.28   | -0.00 |
| 3 Acenaphthene-d10  | 7.37     | 6.87     | 7.87  | 7.37   | -0.00 |
| 4 Phenanthrene-d10  | 9.30     | 8.80     | 9.80  | 9.29   | -0.11 |
| 5 Chrysene-d12      | 13.65    | 13.15    | 14.15 | 13.64  | -0.08 |
| 6 Perylene-d12      | 16.03    | 15.53    | 16.53 | 16.03  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica WestSacramento

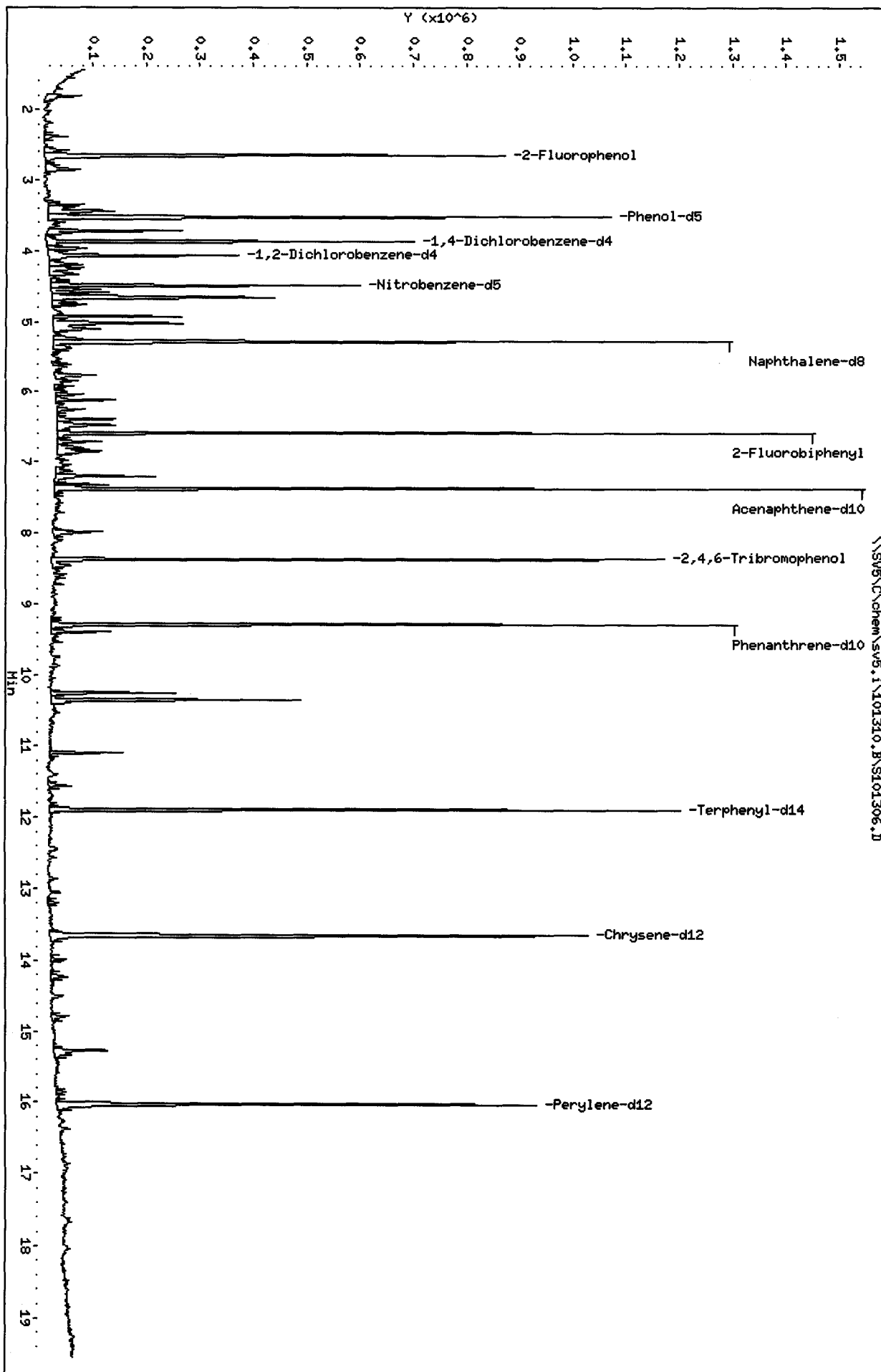
RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L78WK1AA G0J090500- Client Smp ID: 0284217  
 Level: LOW Operator: srs  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\sv5\c\chem\sv5.i\101310.B\8270f.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0284217;8270F.M

| SURROGATE COMPOUND       | CONC<br>ADDED<br>ug/L | CONC<br>RECOVERED<br>ug/L | %<br>RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 7 2-Fluorophenol      | 100.0                 | 65.66                     | 65.66          | 41-105 |
| \$ 8 Phenol-d5           | 100.0                 | 75.58                     | 75.58          | 43-122 |
| \$ 10 1,2-Dichlorobenzen | 100.0                 | 18.13                     | 18.13*         | 60-120 |
| \$ 11 Nitrobenzene-d5    | 50.00                 | 35.60                     | 71.20          | 46-118 |
| \$ 12 2-Fluorobiphenyl   | 50.00                 | 39.00                     | 78.01          | 58-105 |
| \$ 13 2,4,6-Tribromophen | 100.0                 | 97.95                     | 97.95          | 61-118 |
| \$ 14 Terphenyl-d14      | 50.00                 | 45.76                     | 91.53          | 69-110 |

Data File: \\SV5\chem\sv5.i\101310.B\S101306.D  
Date: 13-OCT-2010 16:25  
Client ID: 0284217  
Sample Info: L78MK1A9 G0J090500-10;0;11000;11000;5  
Volume Injected (uL): 1.0  
Column phase:

Instrument: sv5.i  
Operator: srs  
Column diameter: 2.00



# **Initial Calibration**

*Includes (as applicable):*

*runlog*

*standard raw data*

*statistical summary*

*ms tune data*

Instrument: SV5

DFTPP Mix ID: 10MSSV0129

Injection Date: 10/02/10

STD Mix IDs: 10MSSV0307-0313

Initiator/Date: KT-10/03/10

2<sup>nd</sup> Source Mix ID: 10MSSV0314, 342

Reviewer/Date: D. J. 10/4/10

NCM \_\_\_\_\_

**I: SPCCs** The SPCC RRFs must be greater than 0.050.

|                            | Initiated                           | Reviewed                            |                   | Initiated                           | Reviewed                            |
|----------------------------|-------------------------------------|-------------------------------------|-------------------|-------------------------------------|-------------------------------------|
| N-nitroso-di-n-propylamine | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 2,4-Dinitrophenol | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Hexachlorocyclopentadiene  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 4-Nitrophenol     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

**II: CCCs** The CCC % RSDs must be less than 30%

|                         | Initiated                           | Reviewed                            |                        | Initiated                           | Reviewed                            |
|-------------------------|-------------------------------------|-------------------------------------|------------------------|-------------------------------------|-------------------------------------|
| Phenol                  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Acenaphthene           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1,4-Dichlorobenzene     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | N-nitrosodiphenylamine | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2-Nitrophenol           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Pentachlorophenol      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2,4-Dichlorophenol      | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Fluoranthene           | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Hexachlorobutadiene     | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Di-n-octyl phthalate   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 4-chloro-3-methylphenol | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Benzo(a)pyrene         | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2,4,6-Trichlorophenol   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |                        |                                     |                                     |

**III: Other Criteria**

The custom.rp shows that the average of the average is less than 15% on the CCV level standard. Avg of AVG: \_\_\_\_\_

Tailing and degradation criteria are met.

The Tune Documentation is present and meets criteria

All Internal Standards within 50-200% of ICAL mid-point.

Calibration History Included.

Manual re-integrations are checked/initialed and hardcopies included.

Standards analyzed with within 12 hours of Tune time.

Retention time correct for Isomers and all other analytes.

Linear Regressions >0.990 and intercept < ± (½ RL / IS amount)

The second source standard meets the SSCS criteria

File Name: \_\_\_\_\_

|   | Initiated                           | Reviewed                            |
|---|-------------------------------------|-------------------------------------|
| The custom.rp shows that the average of the average is less than 15% on the CCV level standard. Avg of AVG: _____ | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Tailing and degradation criteria are met.   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| The Tune Documentation is present and meets criteria  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| All Internal Standards within 50-200% of ICAL mid-point.  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Calibration History Included.   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Manual re-integrations are checked/initialed and hardcopies included.   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Standards analyzed with within 12 hours of Tune time.   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Retention time correct for Isomers and all other analytes.  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Linear Regressions >0.990 and intercept < ± (½ RL / IS amount)  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| The second source standard meets the SSCS criteria  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

**IV: Non-CCC Compounds Over 15% (Write compound and %D)**

None

**V: Second Source Compounds Over 25% (Write compound and %D)**

None

GC/MS INSTRUMENT LOG  
SEMI-VOLATILES

Method Key (MTH Column)

QL = EPA 8270C (WS-MS-0005)

JZ = EPA TO-13A (WS-MS-0005)

VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)

QI = EPA 8270C-SIM (WS-MS-0008)

FX = PAH-SIM Isotope Dilution (WS-MS-0006)

F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)

Inst ID : sv5.i

Batch ID : 100210.B

ICAL Date: See Calib Report

See raw data for standard IDs

| Date        | Time  | USER | Sample ID              | File ID   | Vol or Wt | Extract Vol | Diln | MTH | Comments |
|-------------|-------|------|------------------------|-----------|-----------|-------------|------|-----|----------|
| 02-OCT-2010 | 11:43 | KT   | Primer                 | QC001.D   | NA        | NA          | NA   |     |          |
| 02-OCT-2010 | 12:06 | KT   | DFTPP 50ug/ml          | DFT1002.D | NA        | NA          | NA   |     |          |
| 02-OCT-2010 | 12:27 | KT   | HSL_005 ug/ml CS-1     | HSL1002A. | NA        | NA          | NA   |     |          |
| 02-OCT-2010 | 12:53 | KT   | HSL_010 ug/ml CS-2     | HSL1002B. | NA        | NA          | NA   |     |          |
| 02-OCT-2010 | 13:18 | KT   | HSL_020 ug/ml CS-3     | HSL1002C. | NA        | NA          | NA   |     |          |
| 02-OCT-2010 | 13:44 | KT   | HSL_050 ug/ml CS-4     | HSL1002D. | NA        | NA          | NA   |     |          |
| 02-OCT-2010 | 14:09 | KT   | HSL_080 ug/ml CS-5     | HSL1002E. | NA        | NA          | NA   |     |          |
| 02-OCT-2010 | 14:35 | KT   | HSL_120 ug/ml CS-6     | HSL1002F. | NA        | NA          | NA   |     |          |
| 02-OCT-2010 | 15:00 | KT   | HSL_160 ug/ml CS-7     | HSL1002G. | NA        | NA          | NA   |     |          |
| 02-OCT-2010 | 16:11 | KT   | HSL_050 ug/ml ICV      | HSL1002H. | NA        | NA          | NA   |     |          |
| 02-OCT-2010 | 16:36 | KT   | Benzidines ICV 50ug/mL | HSL1002H1 | NA        | NA          | NA   |     |          |

SNS HSL  
 10/2/10

Report Date : 03-Oct-2010 11:10

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:09 onishim

Calibration File Names:

- Level 1: \\SV5\C\chem\sv5.i\081710.B\AP90817A.D
- Level 2: \\SV5\C\chem\sv5.i\081710.B\AP90817B.D
- Level 3: \\SV5\C\chem\sv5.i\081710.B\AP90817C.D
- Level 4: \\SV5\C\chem\sv5.i\081710.B\AP90817D.D
- Level 5: \\SV5\C\chem\sv5.i\081710.B\AP90817E.D
- Level 6: \\SV5\C\chem\sv5.i\081710.B\AP90817F.D
- Level 7: \\SV5\C\chem\sv5.i\081710.B\AP90817G.D

| Compound                  | Coefficients       |                    |                    |                    |                    |                     |       | m2      | m2 | RSD<br>OR R^2 |
|---------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|-------|---------|----|---------------|
|                           | 5.0000<br>Level 1  | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | Curve |         |    |               |
| 15 N-Nitrosodimethylamine | 0.92899<br>0.93833 | 0.88268            | 0.91048            | 0.91970            | 0.93146            | 0.93916             | AVRG  | 0.92154 |    | 2.16207       |
| 16 Pyridine               | 1.67117<br>1.52623 | 1.37423            | 1.59449            | 1.56610            | 1.52299            | 1.53256             | AVRG  | 1.54111 |    | 5.85560       |
| 23 Aniline                | 2.20796<br>2.33783 | 2.15935            | 2.19988            | 2.26058            | 2.29749            | 2.33400             | AVRG  | 2.25673 |    | 3.09753       |
| 24 Phenol                 | 2.04111<br>2.06740 | 1.96212            | 2.02834            | 2.03430            | 2.06683            | 2.06089             | AVRG  | 2.03729 |    | 1.80250       |

Manual calculation for 2,4,5-Trichlorophenol @ Level 3:  
 $\frac{55529}{328608} \times \frac{40}{20} = 0.33796$  by 10/4/10



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| Compound                    | Level             |                    |                    |                    |                    |                     |      | Curve   | Coefficient# |    | RSD<br>or R^2 |
|-----------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|---------------------|------|---------|--------------|----|---------------|
|                             | 5.0000<br>Level 1 | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | b    |         | m1           | m2 |               |
| 26 Bis(2-chloroethyl) ether | 1.47335           | 1.38252            | 1.39491            | 1.43824            | 1.42549            | 1.44300             | AVRG | 1.42859 |              |    | 2.17028       |
|                             | 1.44264           |                    |                    |                    |                    |                     |      |         |              |    |               |
| 27 2-Chlorophenol           | 1.52099           | 1.55595            | 1.56903            | 1.58168            | 1.56789            | 1.58074             | AVRG | 1.56381 |              |    | 1.32805       |
|                             | 1.57039           |                    |                    |                    |                    |                     |      |         |              |    |               |
| 28 1,3-Dichlorobenzene      | 1.68903           | 1.69173            | 1.67754            | 1.73135            | 1.68641            | 1.72299             | AVRG | 1.70337 |              |    | 1.29370       |
|                             | 1.72457           |                    |                    |                    |                    |                     |      |         |              |    |               |
| 29 1,4-Dichlorobenzene      | 1.77122           | 1.79861            | 1.74013            | 1.76898            | 1.78200            | 1.79288             | AVRG | 1.78118 |              |    | 1.35229       |
|                             | 1.81444           |                    |                    |                    |                    |                     |      |         |              |    |               |
| 30 Benzyl Alcohol           | 1.01643           | 1.03654            | 0.99182            | 1.04980            | 1.07792            | 1.08952             | AVRG | 1.05101 |              |    | 3.69696       |
|                             | 1.09506           |                    |                    |                    |                    |                     |      |         |              |    |               |
| 31 1,2-Dichlorobenzene      | 1.62008           | 1.63185            | 1.60455            | 1.68061            | 1.63410            | 1.64415             | AVRG | 1.63746 |              |    | 1.45884       |
|                             | 1.64691           |                    |                    |                    |                    |                     |      |         |              |    |               |
| 32 2-Methylphenol           | 1.40818           | 1.38930            | 1.39110            | 1.42620            | 1.45565            | 1.46154             | AVRG | 1.43012 |              |    | 2.50558       |
|                             | 1.47889           |                    |                    |                    |                    |                     |      |         |              |    |               |

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| Compound                        | 5.0000  |         | 10.0000 |         | 20.0000 |         | 50.0000 |         | 80.0000 |    | 120.0000 |  | Coefficients |  | RSD<br>or R <sup>2</sup> |
|---------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|----------|--|--------------|--|--------------------------|
|                                 | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Curve   | b       | ml      | m2 |          |  |              |  |                          |
| 33 2,2'-oxybis(1-Chloropropane) | 2.29602 | 2.22080 | 2.28329 | 2.27928 | 2.27018 | 2.27830 | AVRG    | 2.27365 |         |    |          |  |              |  | 1.08468                  |
|                                 | 2.28770 |         |         |         |         |         |         |         |         |    |          |  |              |  |                          |
| 34 4-Methylphenol               | 1.48606 | 1.48913 | 1.46270 | 1.52239 | 1.52653 | 1.55886 | AVRG    | 1.51904 |         |    |          |  |              |  | 2.88378                  |
|                                 | 1.58783 |         |         |         |         |         |         |         |         |    |          |  |              |  |                          |
| 36 Hexachloroethane             | 0.60925 | 0.60836 | 0.60573 | 0.61394 | 0.60427 | 0.59381 | AVRG    | 0.60636 |         |    |          |  |              |  | 1.04319                  |
|                                 | 0.60919 |         |         |         |         |         |         |         |         |    |          |  |              |  |                          |
| 37 N-Nitrosodipropylamine       | 0.94498 | 0.97005 | 1.01302 | 1.02370 | 1.04700 | 1.03627 | AVRG    | 1.01180 |         |    |          |  |              |  | 3.92615                  |
|                                 | 1.04757 |         |         |         |         |         |         |         |         |    |          |  |              |  |                          |
| 42 Nitrobenzene                 | 0.32855 | 0.32602 | 0.32543 | 0.33083 | 0.33379 | 0.33450 | AVRG    | 0.33116 |         |    |          |  |              |  | 1.48904                  |
|                                 | 0.33901 |         |         |         |         |         |         |         |         |    |          |  |              |  |                          |
| 44 Isophorone                   | 0.63431 | 0.62291 | 0.61160 | 0.63344 | 0.63648 | 0.66468 | AVRG    | 0.63679 |         |    |          |  |              |  | 2.81109                  |
|                                 | 0.65411 |         |         |         |         |         |         |         |         |    |          |  |              |  |                          |
| 45 2-Nitrophenol                | 0.18608 | 0.18833 | 0.18840 | 0.20021 | 0.20022 | 0.20702 | AVRG    | 0.19648 |         |    |          |  |              |  | 4.42274                  |
|                                 | 0.20508 |         |         |         |         |         |         |         |         |    |          |  |              |  |                          |

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| Compound                      | Coefficients       |                    |                    |                    |                    |                     |      | Curve   | b | Coefficients |          | RSD<br>or R^2 |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|------|---------|---|--------------|----------|---------------|
|                               | 5.0000<br>Level 1  | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | ml   |         |   | m2           |          |               |
| 46 2,4-Dimethylphenol         | 0.34459<br>0.35785 | 0.34167            | 0.34307            | 0.34912            | 0.34788            | 0.35962             | AVRG | 0.34911 |   |              | 2.02786  |               |
| 47 Bis(2-chloroethoxy)methane | 0.41146<br>0.38545 | 0.37494            | 0.39565            | 0.38249            | 0.38500            | 0.39859             | AVRG | 0.38908 |   |              | 3.10601  |               |
| 49 2,4-Dichlorophenol         | 0.25434<br>0.27809 | 0.26318            | 0.27019            | 0.27037            | 0.27274            | 0.28180             | AVRG | 0.27010 |   |              | 3.39345  |               |
| 50 Benzoic Acid               | 0.16747<br>0.22180 | 0.16266            | 0.17423            | 0.19357            | 0.21024            | 0.22272             | AVRG | 0.19324 |   |              | 13.25202 |               |
| 51 1,2,4-Trichlorobenzene     | 0.29430<br>0.29091 | 0.28827            | 0.28475            | 0.29747            | 0.29189            | 0.29959             | AVRG | 0.29246 |   |              | 1.75989  |               |
| 52 Naphthalene                | 1.09939<br>1.10247 | 1.12462            | 1.07435            | 1.09325            | 1.09870            | 1.13821             | AVRG | 1.10443 |   |              | 1.89960  |               |
| 54 4-Chloroaniline            | 0.40751<br>0.43867 | 0.42534            | 0.43264            | 0.43910            | 0.43781            | 0.44905             | AVRG | 0.43288 |   |              | 3.06843  |               |

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| Compound                     | Levels             |                    |                    |                    |                    |                     |      | Curve   | Coefficients |    |         | R <sup>2</sup><br>or R <sup>2</sup> |
|------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|------|---------|--------------|----|---------|-------------------------------------|
|                              | 5.0000<br>Level 1  | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | b    |         | ml           | m2 |         |                                     |
| 57 Hexachlorobutadiene       | 0.14295<br>0.14473 | 0.13812            | 0.14428            | 0.14415            | 0.14385            | 0.14379             | AVRG | 0.14313 |              |    | 1.58904 |                                     |
| 60 4-Chloro-3-Methylphenol   | 0.29329<br>0.30839 | 0.28866            | 0.29079            | 0.30972            | 0.30295            | 0.31766             | AVRG | 0.30164 |              |    | 3.64422 |                                     |
| 63 2-Methylnaphthalene       | 0.68483<br>0.69217 | 0.68064            | 0.68080            | 0.70067            | 0.70560            | 0.71172             | AVRG | 0.69378 |              |    | 1.79740 |                                     |
| 66 Hexachlorocyclopentadiene | 0.26878<br>0.33186 | 0.27757            | 0.28896            | 0.29704            | 0.30236            | 0.32262             | AVRG | 0.29846 |              |    | 7.64489 |                                     |
| 69 2,4,6-Trichlorophenol     | 0.31186<br>0.33638 | 0.29820            | 0.30223            | 0.31996            | 0.32305            | 0.34225             | AVRG | 0.31913 |              |    | 5.15654 |                                     |
| 70 2,4,5-Trichlorophenol     | 0.30823<br>0.36135 | 0.32892            | 0.33796            | 0.36298            | 0.35236            | 0.35480             | AVRG | 0.34380 |              |    | 5.80662 |                                     |
| 71 2-Chloronaphthalene       | 1.13629<br>1.15096 | 1.09411            | 1.10012            | 1.14181            | 1.11220            | 1.14447             | AVRG | 1.12571 |              |    | 2.05054 |                                     |

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| Compound              | Levels             |                    |                    |                    |                    |                     |      | Curve   | Coefficients |          |         | RSD<br>or R <sup>2</sup> |
|-----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|------|---------|--------------|----------|---------|--------------------------|
|                       | 5.0000<br>Level 1  | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | b    |         | m1           | m2       |         |                          |
| 73 2-Nitroaniline     | 0.31576<br>0.36278 | 0.31759            | 0.33397            | 0.35205            | 0.34821            | 0.35794             | AVRG | 0.34119 |              |          | 5.57334 |                          |
| 76 Dimethylphthalate  | 1.23388<br>1.30237 | 1.25191            | 1.29803            | 1.34568            | 1.31165            | 1.32891             | AVRG | 1.29606 |              |          | 3.09317 |                          |
| 77 Acenaphthylene     | 1.86531<br>2.02968 | 1.91304            | 1.91818            | 2.01646            | 1.98204            | 1.99786             | AVRG | 1.96037 |              |          | 3.15026 |                          |
| 79 2,6-Dinitrotoluene | 0.28347<br>0.31106 | 0.27378            | 0.29890            | 0.31220            | 0.31294            | 0.32140             | AVRG | 0.30197 |              |          | 5.78579 |                          |
| 80 3-Nitroaniline     | 0.35362<br>0.39603 | 0.34622            | 0.35978            | 0.40036            | 0.38674            | 0.39559             | AVRG | 0.37691 |              |          | 6.06861 |                          |
| 81 Acenaphthene       | 1.25874<br>1.25463 | 1.22468            | 1.26733            | 1.27046            | 1.21141            | 1.24781             | AVRG | 1.24787 |              |          | 1.76776 |                          |
| 82 2,4-Dinitrophenol  | 4083<br>265655     | 7537               | 23799              | 58864              | 110384             | 199007              | QUAD | 0.10620 | 5.32413      | -0.71963 | 0.99812 |                          |

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| Compound                      | Coefficients       |                    |                    |                    |                    |                     |      | Curve   | b | ml |  | m2       | RED<br>or R^2 |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|------|---------|---|----|--|----------|---------------|
|                               | 5.0000<br>Level 1  | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | AVRG |         |   |    |  |          |               |
| 83 Dibenzofuran               | 1.57786<br>1.71077 | 1.62124            | 1.65200            | 1.69530            | 1.65117            | 1.68450             | AVRG | 1.65612 |   |    |  | 2.77923  |               |
| 84 4-Nitrophenol              | 0.12712<br>0.17404 | 0.14148            | 0.15316            | 0.16076            | 0.17130            | 0.16653             | AVRG | 0.15634 |   |    |  | 10.90920 |               |
| 86 2,4-Dinitrotoluene         | 0.34360<br>0.43110 | 0.35989            | 0.38479            | 0.42154            | 0.41035            | 0.42305             | AVRG | 0.39633 |   |    |  | 8.61592  |               |
| 91 Fluorene                   | 1.34567<br>1.40640 | 1.33840            | 1.34292            | 1.39902            | 1.38899            | 1.37835             | AVRG | 1.37139 |   |    |  | 2.08557  |               |
| 92 Diethylphthalate           | 1.22240<br>1.38087 | 1.29889            | 1.31549            | 1.37912            | 1.31873            | 1.37345             | AVRG | 1.32699 |   |    |  | 4.31889  |               |
| 93 4-Chlorophenyl-phenylether | 0.54964<br>0.57695 | 0.55917            | 0.56887            | 0.59265            | 0.56708            | 0.57695             | AVRG | 0.57019 |   |    |  | 2.42913  |               |
| 94 4-Nitroaniline             | 0.33346<br>0.40452 | 0.33747            | 0.37329            | 0.38337            | 0.39216            | 0.39102             | AVRG | 0.37361 |   |    |  | 7.42395  |               |

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| Compound                      | 5.0000<br>Level 1  | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | Curve | b       | Coefficients<br>ml | m2 | \$RSD<br>or R^2 |
|-------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|-------|---------|--------------------|----|-----------------|
| 97 4,6-Dinitro-2-methylphenol | 5780<br>324244     | 11282              | 32982              | 76137              | 134784             | 236477              | LINR  | 0.10840 | 0.15581            |    | 0.99840         |
| 98 N-Nitrosodiphenylamine     | 0.57756<br>0.61968 | 0.59736            | 0.60533            | 0.60433            | 0.62172            | 0.61801             | AVRG  |         | 0.60628            |    | 2.57715         |
| 100 Azobenzene                | 0.77527<br>0.77331 | 0.76965            | 0.77321            | 0.79522            | 0.80064            | 0.81892             | AVRG  |         | 0.78660            |    | 2.37146         |
| 101 4-Bromophenyl-phenylether | 0.18964<br>0.19815 | 0.18507            | 0.19281            | 0.19931            | 0.19607            | 0.20581             | AVRG  |         | 0.19527            |    | 3.48752         |
| 108 Hexachlorobenzene         | 0.22958<br>0.21854 | 0.22054            | 0.20740            | 0.21605            | 0.21731            | 0.21704             | AVRG  |         | 0.21807            |    | 3.00928         |
| 110 Pentachlorophenol         | 5649<br>293184     | 10551              | 30451              | 67982              | 126397             | 215360              | LINR  | 0.09816 | 0.14122            |    | 0.99845         |
| 114 Phenanthrene              | 1.30347<br>1.26611 | 1.26007            | 1.25408            | 1.24163            | 1.24375            | 1.25610             | AVRG  |         | 1.26074            |    | 1.64308         |

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| Compound                   | Concentration Levels |                    |                    |                    |                    |                     |      | Curve   | Coefficients |    |         | RSD<br>or R <sup>2</sup> |
|----------------------------|----------------------|--------------------|--------------------|--------------------|--------------------|---------------------|------|---------|--------------|----|---------|--------------------------|
|                            | 5.0000<br>Level 1    | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | b    |         | m1           | m2 |         |                          |
| 115 Anthracene             | 1.25034<br>1.26958   | 1.21759            | 1.24206            | 1.25982            | 1.27529            | 1.30214             | AVRG | 1.25955 |              |    | 2.12888 |                          |
| 118 Carbazole              | 1.13211<br>1.16455   | 1.12547            | 1.13694            | 1.14260            | 1.17067            | 1.18192             | AVRG | 1.15061 |              |    | 1.87826 |                          |
| 120 Di-n-Butylphthalate    | 1.28492<br>1.48636   | 1.32287            | 1.36193            | 1.38164            | 1.41474            | 1.43847             | AVRG | 1.38442 |              |    | 4.97257 |                          |
| 126 Fluoranthene           | 1.03840<br>1.17440   | 1.07611            | 1.17216            | 1.10520            | 1.15861            | 1.18294             | AVRG | 1.12969 |              |    | 5.01774 |                          |
| 127 Benzidine              | 0.78175<br>0.86381   | 0.76431            | 0.75250            | 0.82658            | 0.82201            | 0.86375             | AVRG | 0.81067 |              |    | 5.60614 |                          |
| 128 Pyrene                 | 1.25791<br>1.25794   | 1.23783            | 1.17078            | 1.28684            | 1.25586            | 1.28463             | AVRG | 1.25025 |              |    | 3.12172 |                          |
| 134 3,3'-dimethylbenzidine | 0.65472<br>0.79926   | 0.64388            | 0.67361            | 0.70756            | 0.73630            | 0.79414             | AVRG | 0.71564 |              |    | 8.88815 |                          |



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| Compound                        | Levels             |                    |                    |                    |                    |                     |      | Curve   | Coefficients |    |          | RSD<br>or R <sup>2</sup> |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|------|---------|--------------|----|----------|--------------------------|
|                                 | 5.0000<br>Level 1  | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | b    |         | m1           | m2 |          |                          |
| 136 Butylbenzylphthalate        | 0.64984<br>0.64920 | 0.60187            | 0.59142            | 0.62586            | 0.61590            | 0.65233             | AVRG | 0.62663 |              |    | 3.95034  |                          |
| 138 Benzo(a)Anthracene          | 1.10169<br>1.10920 | 0.99731            | 1.03245            | 1.04489            | 1.06449            | 1.10831             | AVRG | 1.06548 |              |    | 4.05847  |                          |
| 139 Chrysene                    | 1.05284<br>1.12246 | 1.10175            | 1.06320            | 1.09705            | 1.06985            | 1.12241             | AVRG | 1.08994 |              |    | 2.59426  |                          |
| 140 3,3'-Dichlorobenzidine      | 0.39148<br>0.42415 | 0.37695            | 0.39090            | 0.39906            | 0.40353            | 0.42717             | AVRG | 0.40189 |              |    | 4.53885  |                          |
| 141 bis(2-ethylhexyl) Phthalate | 0.91826<br>0.88354 | 0.80897            | 0.84032            | 0.85193            | 0.84371            | 0.89539             | AVRG | 0.86316 |              |    | 4.34816  |                          |
| 142 Di-n-octylphthalate         | 1.34838<br>1.50770 | 1.23185            | 1.35627            | 1.34433            | 1.39356            | 1.47616             | AVRG | 1.37975 |              |    | 6.65055  |                          |
| 144 Benzo(b) Fluoranthene       | 0.81012<br>1.02572 | 0.81077            | 0.82747            | 0.99930            | 0.95373            | 0.91132             | AVRG | 0.90549 |              |    | 10.05836 |                          |

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| Compound                            | 5.0000  |         | 10.0000 |         | 20.0000 |         | 50.0000 |         | 80.0000 |         | 120.0000 |         | Curve | b | Coefficients |    | RSD<br>or R <sup>2</sup> |
|-------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|-------|---|--------------|----|--------------------------|
|                                     | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 | Level 7 | Level 1 | Level 2 | Level 3 | Level 4  | Level 5 |       |   | Level 6      | m1 |                          |
| 145 Benzo(k)fluoranthene            | 1.22939 | 1.16528 | 1.20022 | 1.09895 | 1.14223 | 1.19597 | 1.16236 | AVRG    |         |         |          |         |       |   |              |    | 4.27893                  |
|                                     | 1.10447 |         |         |         |         |         |         |         |         |         |          |         |       |   |              |    |                          |
| 147 Benzo(e)pyrene                  | 0.90394 | 0.92734 | 0.90757 | 0.95977 | 0.96997 | 0.96929 | 0.94425 | AVRG    |         |         |          |         |       |   |              |    | 3.22007                  |
|                                     | 0.97185 |         |         |         |         |         |         |         |         |         |          |         |       |   |              |    |                          |
| 148 Benzo(a)pyrene                  | 0.98300 | 0.97686 | 0.99402 | 1.02789 | 1.07610 | 1.06275 | 1.02655 | AVRG    |         |         |          |         |       |   |              |    | 4.11137                  |
|                                     | 1.06523 |         |         |         |         |         |         |         |         |         |          |         |       |   |              |    |                          |
| 151 Indeno(1,2,3-cd)pyrene          | 0.73783 | 0.73267 | 0.73671 | 0.84698 | 0.84057 | 0.93730 | 0.83029 | AVRG    |         |         |          |         |       |   |              |    | 12.15083                 |
|                                     | 0.97995 |         |         |         |         |         |         |         |         |         |          |         |       |   |              |    |                          |
| 152 Dibenzo(e,h)anthracene          | 0.88099 | 0.84384 | 0.87256 | 0.92240 | 0.95990 | 1.00944 | 0.92758 | AVRG    |         |         |          |         |       |   |              |    | 7.07091                  |
|                                     | 1.00392 |         |         |         |         |         |         |         |         |         |          |         |       |   |              |    |                          |
| 153 Benzo(g,h,i)perylene            | 0.96025 | 0.98457 | 0.97380 | 0.99974 | 1.01731 | 1.05397 | 1.00427 | AVRG    |         |         |          |         |       |   |              |    | 3.45188                  |
|                                     | 1.04026 |         |         |         |         |         |         |         |         |         |          |         |       |   |              |    |                          |
| M 162 benzo b,k Fluoranthene Totals | 2.03951 | 1.97605 | 2.02770 | 2.09825 | 2.09596 | 2.10729 | 2.06785 | AVRG    |         |         |          |         |       |   |              |    | 2.64859                  |
|                                     | 2.13019 |         |         |         |         |         |         |         |         |         |          |         |       |   |              |    |                          |

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:09 onishim

| Compound                     | Concentration Levels |                    |                    |                    |                    |                     |      | Curve   | Coefficients |    |         | RSD<br>or R <sup>2</sup> |
|------------------------------|----------------------|--------------------|--------------------|--------------------|--------------------|---------------------|------|---------|--------------|----|---------|--------------------------|
|                              | 5.0000<br>Level 1    | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | b    |         | m1           | m2 |         |                          |
| \$ 7 2-Fluorophenol          | 1.44503<br>1.43635   | 1.30436            | 1.38373            | 1.44170            | 1.43535            | 1.42292             | AVRG | 1.40992 |              |    | 3.61494 |                          |
| \$ 8 Phenol-d5               | 1.72227<br>1.83627   | 1.67335            | 1.74151            | 1.79006            | 1.80863            | 1.83864             | AVRG | 1.77296 |              |    | 3.52001 |                          |
| \$ 9 2-Chlorophenol-d4       | 1.47770<br>1.57804   | 1.55530            | 1.53916            | 1.59414            | 1.57486            | 1.57967             | AVRG | 1.55698 |              |    | 2.52388 |                          |
| \$ 10 1,2-Dichlorobenzene-d4 | 0.95776<br>0.98896   | 0.98111            | 0.99827            | 0.98914            | 0.99518            | 0.98547             | AVRG | 0.98513 |              |    | 1.35559 |                          |
| \$ 11 Nitrobenzene-d5        | 0.33028<br>0.33970   | 0.34256            | 0.33065            | 0.34105            | 0.33606            | 0.35127             | AVRG | 0.33879 |              |    | 2.16217 |                          |
| \$ 12 2-Fluorobiphenyl       | 1.28499<br>1.30010   | 1.26007            | 1.27668            | 1.34206            | 1.25854            | 1.29723             | AVRG | 1.28852 |              |    | 2.22622 |                          |
| \$ 13 2,4,6-Tribromophenol   | 0.15034<br>0.18390   | 0.16527            | 0.17466            | 0.17926            | 0.17825            | 0.18501             | AVRG | 0.17381 |              |    | 7.05197 |                          |

TestAmerica West Sacramento  
INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:09 onishim

| Compound            | 5.0000<br>Level 1 | 10.0000<br>Level 2 | 20.0000<br>Level 3 | 50.0000<br>Level 4 | 80.0000<br>Level 5 | 120.0000<br>Level 6 | Curve | b | Coefficients<br>m1 | m2 | \$RSD<br>or R^2 |
|---------------------|-------------------|--------------------|--------------------|--------------------|--------------------|---------------------|-------|---|--------------------|----|-----------------|
| 160.0000<br>Level 7 |                   |                    |                    |                    |                    |                     |       |   |                    |    |                 |
| \$ 14 Terphenyl-d14 | 0.78508           | 0.78616            | 0.73917            | 0.80441            | 0.78047            | 0.81889             | AVRG  |   | 0.78789            |    | 3.21384         |
|                     | 0.80107           |                    |                    |                    |                    |                     |       |   |                    |    |                 |

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:09 onishim

| Curve    | Formula                     | Units    |
|----------|-----------------------------|----------|
| Averaged | Ant = Rep/ml                | Response |
| Linear   | Ant = b + Rep/ml            | Response |
| Quad     | Ant = b + ml*Rep + m2*Rep^2 | Response |

Signal Calibration Report

Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit: 04-Oct-2010 09:00 onishim  
 Compound : 82 2,4-Dinitrophenol  
 Mass: 184.00  
 Istd Compound: \* 3 Acenaphthene-d10

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged  
 Origin: None  
 Amt = Rsp/ml  
 ml = 0.15933171100000  
 RSD: 26.349

Initial Calibration Table

| Lvl | RT    | Amount    | Response | RT    | Istd Amount | Istd Response | Response Factor  |
|-----|-------|-----------|----------|-------|-------------|---------------|------------------|
| 1   | 7.572 | 5.00000   | 4083     | 7.468 | 40.000      | 321839        | 0.10149173965865 |
| 2   | 7.572 | 10.00000  | 7537     | 7.468 | 40.000      | 272639        | 0.11057845722732 |
| 3   | 7.572 | 20.00000  | 23799    | 7.468 | 40.000      | 328608        | 0.14484735612036 |
| 4   | 7.582 | 50.00000  | 58864    | 7.468 | 40.000      | 282538        | 0.16667209366528 |
| 5   | 7.572 | 80.00000  | 110384   | 7.468 | 40.000      | 300315        | 0.18378036395118 |
| 6   | 7.582 | 120.00000 | 199007   | 7.468 | 40.000      | 322596        | 0.20563077864160 |
| 7   | 7.582 | 160.00000 | 265655   | 7.478 | 40.000      | 328259        | 0.20232118540543 |

| Lvl | Sublist   | Calibration File                     |
|-----|-----------|--------------------------------------|
| 1   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002A |
| 2   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002B |
| 3   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002C |
| 4   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002D |
| 5   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002E |
| 6   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002F |
| 7   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002G |

Continuing Calibration Table

| Ind | RT | Amount | Response | RT | Istd Amount | Istd Response | Response Factor |
|-----|----|--------|----------|----|-------------|---------------|-----------------|
|-----|----|--------|----------|----|-------------|---------------|-----------------|

|  |
|--|
| 1   7.582   50.000   50142   7.468   40.000   236662   0.16949742670982  |
| 2   7.572   50.000   58864   7.468   40.000   282538   0.16667209366528  |
| 3   7.582   50.000   56608   7.468   40.000   239304   0.18924213552636  |
| 4   7.589   50.000   98553   7.485   40.000   440855   0.17883975456783  |
| 5   7.599   50.000   81881   7.485   40.000   371846   0.17616109894957  |
| 6   7.599   50.000   55069   7.495   40.000   283828   0.15521794889863  |
| 7   7.599   50.000   52896   7.496   40.000   256342   0.16507946415336  |
| 8   7.599   50.000   50586   7.495   40.000   224545   0.18022578993075  |
| 9   7.610   50.000   31559   7.506   40.000   165705   0.15236233064784  |
| 10   7.610   50.000   50181   7.506   40.000   226619   0.17714666466625 |
| 11   7.610   50.000   44092   7.506   40.000   201923   0.17468837130986 |
| 12   7.620   50.000   81056   7.516   40.000   329174   0.19699247206645 |
| 13   7.620   50.000   93793   7.516   40.000   378407   0.19829020076267 |
| 14   7.630   50.000   68549   7.516   40.000   271629   0.20189007801082 |
| 15   7.630   50.000   54835   7.516   40.000   219680   0.19969045884924 |
| 16   7.630   50.000   67628   7.527   40.000   267569   0.20219980640508 |
| 17   7.630   50.000   94376   7.527   40.000   349016   0.21632475301992 |
| 18   7.635   50.000   51607   7.532   40.000   209252   0.19730086211840 |
| 19   7.635   50.000   62563   7.531   40.000   260404   0.19220288474831 |
| 20   7.646   50.000   80386   7.542   40.000   334425   0.19229662854153 |
| 21   7.645   50.000   25473   7.542   40.000   302573   0.06735035842590 |
| 22   7.645   50.000   17649   7.542   40.000   223404   0.06320030080034 |
| 23   7.646   50.000   68382   7.542   40.000   292758   0.18686286967393 |
| 24   7.656   50.000   97952   7.552   40.000   390143   0.20085353319168 |
| 25   7.656   50.000   63647   7.552   40.000   289221   0.17605084001507 |
| 26   7.666   50.000   79703   7.563   40.000   331752   0.19219899201813 |
| 27   7.677   50.000   59624   7.573   40.000   245725   0.19411618679418 |
| 28   7.687   50.000   60561   7.583   40.000   237909   0.20364425053277 |
| 29   7.687   50.000   42226   7.583   40.000   172923   0.19535168832370 |
| 30   7.687   50.000   51997   7.583   40.000   208221   0.19977619932668 |
| 31   7.697   50.000   51275   7.594   40.000   202822   0.20224630464151 |
| 32   7.697   50.000   65531   7.594   40.000   250339   0.20941523294413 |
| 33   7.760   50.000   76785   7.656   40.000   344524   0.17829817371214 |

|     |       |        |       |       |        |        |                  |
|-----|-------|--------|-------|-------|--------|--------|------------------|
| 34  | 7.759 | 50.000 | 68725 | 7.656 | 40.000 | 303207 | 0.18132826748723 |
| 35  | 7.770 | 50.000 | 66249 | 7.666 | 40.000 | 308864 | 0.17159397016162 |
| 36  | 7.780 | 50.000 | 63983 | 7.677 | 40.000 | 288883 | 0.17718730420274 |
| 37  | 7.780 | 50.000 | 61267 | 7.677 | 40.000 | 292290 | 0.16768825481542 |
| 38  | 7.791 | 50.000 | 56069 | 7.687 | 40.000 | 238922 | 0.18773993186061 |
| 39  | 7.791 | 50.000 | 50573 | 7.687 | 40.000 | 243613 | 0.16607652300986 |
| 40  | 7.791 | 50.000 | 55930 | 7.687 | 40.000 | 256301 | 0.17457598682799 |
| 41  | 7.791 | 50.000 | 55930 | 7.687 | 40.000 | 256301 | 0.17457598682799 |
| 42  | 7.791 | 50.000 | 43995 | 7.687 | 40.000 | 215682 | 0.16318468856928 |
| 43  | 7.801 | 50.000 | 55663 | 7.697 | 40.000 | 269061 | 0.16550299002828 |
| 44  | 7.801 | 50.000 | 52406 | 7.697 | 40.000 | 242418 | 0.17294425331452 |
| 45  | 7.801 | 50.000 | 49689 | 7.697 | 40.000 | 246748 | 0.16110039392417 |
| 46  | 7.801 | 50.000 | 83728 | 7.697 | 40.000 | 361851 | 0.18511044601231 |
| 47  | 7.801 | 50.000 | 69470 | 7.697 | 40.000 | 316865 | 0.17539330629763 |
| 48  | 7.811 | 50.000 | 98764 | 7.708 | 40.000 | 448001 | 0.17636389204488 |
| 49  | 7.811 | 50.000 | 65199 | 7.708 | 40.000 | 319060 | 0.16347771579013 |
| 50  | 7.811 | 50.000 | 63819 | 7.708 | 40.000 | 326041 | 0.15659134894078 |
| 51  | 7.811 | 50.000 | 69420 | 7.708 | 40.000 | 325539 | 0.17059707131864 |
| 52  | 7.822 | 50.000 | 66513 | 7.718 | 40.000 | 295770 | 0.17990465564459 |
| 53  | 7.822 | 50.000 | 58901 | 7.718 | 40.000 | 274779 | 0.17148617616339 |
| 54  | 7.822 | 50.000 | 58321 | 7.718 | 40.000 | 264752 | 0.17622831933281 |
| 55  | 7.816 | 50.000 | 90734 | 7.713 | 40.000 | 414154 | 0.17526620532459 |
| 56  | 7.858 | 50.000 | 49564 | 7.754 | 40.000 | 260934 | 0.15195873285965 |
| 57  | 7.858 | 50.000 | 63475 | 7.754 | 40.000 | 318667 | 0.15935129774969 |
| 58  | 7.889 | 50.000 | 58884 | 7.785 | 40.000 | 318462 | 0.14792094504211 |
| 59  | 7.889 | 50.000 | 52456 | 7.796 | 40.000 | 304639 | 0.13775255302177 |
| 60  | 7.889 | 50.000 | 44855 | 7.796 | 40.000 | 283970 | 0.12636546114026 |
| 61  | 7.889 | 50.000 | 40711 | 7.785 | 40.000 | 264293 | 0.12322990014870 |
|     |       |        |       |       |        |        |                  |
| Avg | 7.719 | 50.000 | 61661 | 7.615 | 40.000 | 4333   | 0.17364233986573 |

| Ind | Sublist   | Calibration File                     |
|-----|-----------|--------------------------------------|
| 1   | 1_8270STD | \\sv5\c\chem\sv5.1\100210.B\HSL1002H |



|              |                                      |  |
|--------------|--------------------------------------|--|
| 2 1_8270STD  | \sv5\C\chem\sv5.i\100210.B\HSL1002D  |  |
| 3 1_8270STD  | \sv5\C\chem\sv5.i\100210.B\QC001     |  |
| 4 1_8270STD  | \sv5\C\chem\sv5.i\100110.B\HSL1001   |  |
| 5 1_8270STD  | \sv5\C\chem\sv5.i\093010.B\HSL0930   |  |
| 6 1_8270STD  | \sv5\C\chem\sv5.i\092910A.B\HSL0929A |  |
| 7 1_8270STD  | \sv5\C\chem\sv5.i\092910.B\HSL0929   |  |
| 8 1_8270STD  | \sv5\C\chem\sv5.i\092910.B\QC001     |  |
| 9 1_8270STD  | \sv5\C\chem\sv5.i\092810A.B\HSL0928  |  |
| 10 1_8270STD | \sv5\C\chem\sv5.i\092810.B\HSL0928   |  |
| 11 1_8270STD | \sv5\C\chem\sv5.i\092710.B\HSL0927   |  |
| 12 1_8270STD | \sv5\C\chem\sv5.i\092510.B\QC001     |  |
| 13 1_8270STD | \sv5\C\chem\sv5.i\092510.B\HSL0925   |  |
| 14 1_8270STD | \sv5\C\chem\sv5.i\092410.B\QC001     |  |
| 15 1_8270STD | \sv5\C\chem\sv5.i\092410.B\HSL0924   |  |
| 16 1_8270STD | \sv5\C\chem\sv5.i\092310A.B\HSL0923A |  |
| 17 1_8270STD | \sv5\C\chem\sv5.i\092310A.B\QC001    |  |
| 18 1_8270STD | \sv5\C\chem\sv5.i\092310.B\QC001     |  |
| 19 1_8270STD | \sv5\C\chem\sv5.i\092310.B\HSL0923   |  |
| 20 1_8270STD | \sv5\C\chem\sv5.i\092210.B\HSL0922a  |  |
| 21 1_8270STD | \sv5\C\chem\sv5.i\092210.B\HSL0922   |  |
| 22 1_8270STD | \sv5\C\chem\sv5.i\092210.B\QC001     |  |
| 23 1_8270STD | \sv5\C\chem\sv5.i\092110.B\HSL0921   |  |
| 24 1_8270STD | \sv5\C\chem\sv5.i\092010.B\QC001     |  |
| 25 1_8270STD | \sv5\C\chem\sv5.i\092010.B\HSL0920   |  |
| 26 1_8270STD | \sv5\C\chem\sv5.i\091910a.B\HSL0919a |  |
| 27 1_8270STD | \sv5\C\chem\sv5.i\091910.B\HSL0919   |  |
| 28 1_8270STD | \sv5\C\chem\sv5.i\091910.B\QC001     |  |
| 29 1_8270STD | \sv5\C\chem\sv5.i\091710.B\HSL0917   |  |
| 30 1_8270STD | \sv5\C\chem\sv5.i\091710.B\QC001     |  |
| 31 1_8270STD | \sv5\C\chem\sv5.i\091510b.B\HSL0915b |  |
| 32 1_8270STD | \sv5\C\chem\sv5.i\091510b.B\QC003    |  |
| 33 1_8270STD | \sv5\C\chem\sv5.i\091010.B\HSL0910   |  |
| 34 1_8270STD | \sv5\C\chem\sv5.i\091010.B\QC001     |  |

|              |                                       |  |
|--------------|---------------------------------------|--|
| 35 1_8270STD | \\sv5\c\chem\sv5.i\090910a.B\HSL0909a |  |
| +-----+      |                                       |  |
| 36 1_8270STD | \\sv5\c\chem\sv5.i\090910.B\HSL0909   |  |
| +-----+      |                                       |  |
| 37 1_8270STD | \\sv5\c\chem\sv5.i\090910.B\QC001     |  |
| +-----+      |                                       |  |
| 38 1_8270STD | \\sv5\c\chem\sv5.i\090810.B\HSL0908   |  |
| +-----+      |                                       |  |
| 39 1_8270STD | \\sv5\c\chem\sv5.i\090810.B\Primer    |  |
| +-----+      |                                       |  |
| 40 1_8270STD | \\sv5\c\chem\sv5.i\090710.B\HSL0907   |  |
| +-----+      |                                       |  |
| 41 1_8270STD | \\sv5\c\chem\sv5.i\090710.B\HSL0907   |  |
| +-----+      |                                       |  |
| 42 1_8270STD | \\sv5\c\chem\sv5.i\090110.B\HSL0901   |  |
| +-----+      |                                       |  |
| 43 1_8270STD | \\sv5\c\chem\sv5.i\083110.B\HSL0831   |  |
| +-----+      |                                       |  |
| 44 1_8270STD | \\sv5\c\chem\sv5.i\083010.B\QC001     |  |
| +-----+      |                                       |  |
| 45 1_8270STD | \\sv5\c\chem\sv5.i\083010.B\HSL0830   |  |
| +-----+      |                                       |  |
| 46 1_8270STD | \\sv5\c\chem\sv5.i\082710.B\QC001     |  |
| +-----+      |                                       |  |
| 47 1_8270STD | \\sv5\c\chem\sv5.i\082710.B\HSL0827   |  |
| +-----+      |                                       |  |
| 48 1_8270STD | \\sv5\c\chem\sv5.i\082610.B\HSL0826   |  |
| +-----+      |                                       |  |
| 49 1_8270STD | \\sv5\c\chem\sv5.i\082610.B\QC001     |  |
| +-----+      |                                       |  |
| 50 1_8270STD | \\sv5\c\chem\sv5.i\082510.B\QC001     |  |
| +-----+      |                                       |  |
| 51 1_8270STD | \\sv5\c\chem\sv5.i\082510.B\HSL0825   |  |
| +-----+      |                                       |  |
| 52 1_8270STD | \\sv5\c\chem\sv5.i\082310B.B\HSL0823  |  |
| +-----+      |                                       |  |
| 53 1_8270STD | \\sv5\c\chem\sv5.i\082310B.B\HSL0823H |  |
| +-----+      |                                       |  |
| 54 1_8270STD | \\sv5\c\chem\sv5.i\082310B.B\HSL0823D |  |
| +-----+      |                                       |  |
| 55 1_8270STD | \\sv5\c\chem\sv5.i\082310A.B\HSL0823A |  |
| +-----+      |                                       |  |
| 56 1_8270STD | \\sv5\c\chem\sv5.i\082010.B\HSL0820   |  |
| +-----+      |                                       |  |
| 57 1_8270STD | \\sv5\c\chem\sv5.i\082010.B\QC001     |  |
| +-----+      |                                       |  |
| 58 1_8270STD | \\sv5\c\chem\sv5.i\081810A.B\HSL0818A |  |
| +-----+      |                                       |  |
| 59 1_8270STD | \\sv5\c\chem\sv5.i\081810.B\HSL0818   |  |
| +-----+      |                                       |  |
| 60 1_8270STD | \\sv5\c\chem\sv5.i\081710.B\HSL0817D  |  |
| +-----+      |                                       |  |
| 61 1_8270STD | \\sv5\c\chem\sv5.i\081710.B\HSL0817H  |  |
| +-----+      |                                       |  |

Signal Calibration Report

Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit: 04-Oct-2010 09:00 onishim  
 Compound : 110 Pentachlorophenol  
 Mass: 266.00  
 Istd Compound: \* 4 Phenanthrene-d10

Calibration Formulas

Calibration Mode: by Response

Curve Type: Averaged  
 Origin: None  
 Amt = Rsp/ml  
 ml = 0.11930897400000  
 RSD: 15.221

Initial Calibration Table

| Lvl | RT    | Amount    | Response | RT    | Istd Amount | Istd Response | Response Factor  |
|-----|-------|-----------|----------|-------|-------------|---------------|------------------|
| 1   | 9.240 | 5.00000   | 5849     | 9.406 | 40.000      | 496356        | 0.09427104739340 |
| 2   | 9.240 | 10.00000  | 10551    | 9.406 | 40.000      | 428440        | 0.09850620857063 |
| 3   | 9.240 | 20.00000  | 30451    | 9.406 | 40.000      | 525834        | 0.11581982146457 |
| 4   | 9.240 | 50.00000  | 67882    | 9.406 | 40.000      | 462722        | 0.11736118014704 |
| 5   | 9.240 | 80.00000  | 126397   | 9.406 | 40.000      | 477777        | 0.13227614556582 |
| 6   | 9.240 | 120.00000 | 215360   | 9.406 | 40.000      | 515607        | 0.13922748656761 |
| 7   | 9.250 | 160.00000 | 293184   | 9.406 | 40.000      | 532284        | 0.13770092657303 |

| Lvl | Sublist   | Calibration File                     |
|-----|-----------|--------------------------------------|
| 1   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002A |
| 2   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002B |
| 3   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002C |
| 4   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002D |
| 5   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002E |
| 6   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002F |
| 7   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002G |

Continuing Calibration Table

| Ind | RT | Amount | Response | RT | Istd Amount | Istd Response | Response Factor |
|-----|----|--------|----------|----|-------------|---------------|-----------------|
|-----|----|--------|----------|----|-------------|---------------|-----------------|

|    |       |        |        |       |        |        |                  |
|----|-------|--------|--------|-------|--------|--------|------------------|
| 1  | 9.240 | 50.000 | 62906  | 9.406 | 40.000 | 380734 | 0.13217837125132 |
| 2  | 9.240 | 50.000 | 67882  | 9.406 | 40.000 | 462722 | 0.11736118014704 |
| 3  | 9.257 | 50.000 | 111129 | 9.423 | 40.000 | 692643 | 0.12835356742218 |
| 4  | 9.257 | 50.000 | 88353  | 9.423 | 40.000 | 569627 | 0.12408541027725 |
| 5  | 9.267 | 50.000 | 65176  | 9.433 | 40.000 | 444572 | 0.11728313973889 |
| 6  | 9.268 | 50.000 | 60910  | 9.433 | 40.000 | 402268 | 0.12113317489833 |
| 7  | 9.278 | 50.000 | 51724  | 9.433 | 40.000 | 342388 | 0.12085470285174 |
| 8  | 9.278 | 50.000 | 37406  | 9.444 | 40.000 | 257561 | 0.11618529202791 |
| 9  | 9.278 | 50.000 | 56153  | 9.444 | 40.000 | 367144 | 0.12235635064171 |
| 10 | 9.278 | 50.000 | 49979  | 9.444 | 40.000 | 316244 | 0.12643148960929 |
| 11 | 9.299 | 50.000 | 89278  | 9.465 | 40.000 | 533339 | 0.13391557714699 |
| 12 | 9.288 | 50.000 | 102299 | 9.454 | 40.000 | 604130 | 0.13546620760432 |
| 13 | 9.299 | 50.000 | 74887  | 9.464 | 40.000 | 434948 | 0.13773968382427 |
| 14 | 9.299 | 50.000 | 61171  | 9.465 | 40.000 | 350214 | 0.13973399121680 |
| 15 | 9.309 | 50.000 | 72641  | 9.475 | 40.000 | 436116 | 0.13325078648800 |
| 16 | 9.309 | 50.000 | 99213  | 9.475 | 40.000 | 545533 | 0.14549147347640 |
| 17 | 9.314 | 50.000 | 56050  | 9.480 | 40.000 | 341600 | 0.13126463700234 |
| 18 | 9.314 | 50.000 | 67187  | 9.480 | 40.000 | 410196 | 0.13103394474836 |
| 19 | 9.324 | 50.000 | 90596  | 9.490 | 40.000 | 530756 | 0.13655389670583 |
| 20 | 9.324 | 50.000 | 32043  | 9.490 | 40.000 | 484990 | 0.05285552279428 |
| 21 | 9.324 | 50.000 | 22238  | 9.490 | 40.000 | 346959 | 0.05127522272084 |
| 22 | 9.324 | 50.000 | 81528  | 9.490 | 40.000 | 462218 | 0.14110744280837 |
| 23 | 9.335 | 50.000 | 103580 | 9.511 | 40.000 | 589949 | 0.14045959905009 |
| 24 | 9.335 | 50.000 | 72155  | 9.501 | 40.000 | 446339 | 0.12932770831140 |
| 25 | 9.355 | 50.000 | 91662  | 9.521 | 40.000 | 517550 | 0.14168602067433 |
| 26 | 9.366 | 50.000 | 67431  | 9.532 | 40.000 | 396847 | 0.13593349578049 |
| 27 | 9.366 | 50.000 | 71407  | 9.542 | 40.000 | 407176 | 0.14029707055426 |
| 28 | 9.366 | 50.000 | 49946  | 9.532 | 40.000 | 298933 | 0.13366473423811 |
| 29 | 9.366 | 50.000 | 58621  | 9.542 | 40.000 | 335623 | 0.13973059057335 |
| 30 | 9.386 | 50.000 | 53858  | 9.552 | 40.000 | 329730 | 0.13067176174446 |
| 31 | 9.387 | 50.000 | 69993  | 9.552 | 40.000 | 399673 | 0.14010053218506 |
| 32 | 9.459 | 50.000 | 87217  | 9.625 | 40.000 | 539077 | 0.12943160253544 |
| 33 | 9.459 | 50.000 | 77540  | 9.625 | 40.000 | 458679 | 0.13524054949104 |

|     |       |        |        |       |        |        |                  |
|-----|-------|--------|--------|-------|--------|--------|------------------|
| 34  | 9.470 | 50.000 | 79232  | 9.646 | 40.000 | 482971 | 0.13124100618878 |
| 35  | 9.480 | 50.000 | 75075  | 9.656 | 40.000 | 465501 | 0.12902227922174 |
| 36  | 9.480 | 50.000 | 69872  | 9.656 | 40.000 | 435300 | 0.12841167011257 |
| 37  | 9.490 | 50.000 | 60626  | 9.656 | 40.000 | 378611 | 0.12810193047746 |
| 38  | 9.490 | 50.000 | 60476  | 9.666 | 40.000 | 383533 | 0.12614507747704 |
| 39  | 9.490 | 50.000 | 68275  | 9.656 | 40.000 | 401081 | 0.13618196823086 |
| 40  | 9.490 | 50.000 | 68275  | 9.656 | 40.000 | 401081 | 0.13618196823086 |
| 41  | 9.490 | 50.000 | 51783  | 9.666 | 40.000 | 337799 | 0.12263624226241 |
| 42  | 9.501 | 50.000 | 70205  | 9.677 | 40.000 | 425699 | 0.13193359627342 |
| 43  | 9.511 | 50.000 | 60939  | 9.677 | 40.000 | 381025 | 0.12794751000591 |
| 44  | 9.501 | 50.000 | 61157  | 9.677 | 40.000 | 380328 | 0.12864054184809 |
| 45  | 9.500 | 50.000 | 98266  | 9.676 | 40.000 | 586969 | 0.13393007126441 |
| 46  | 9.500 | 50.000 | 82460  | 9.677 | 40.000 | 500580 | 0.13178313156738 |
| 47  | 9.511 | 50.000 | 117721 | 9.687 | 40.000 | 687233 | 0.13703765680635 |
| 48  | 9.511 | 50.000 | 77582  | 9.687 | 40.000 | 485585 | 0.12781613929590 |
| 49  | 9.511 | 50.000 | 77449  | 9.687 | 40.000 | 498103 | 0.12439033693834 |
| 50  | 9.511 | 50.000 | 85917  | 9.687 | 40.000 | 500311 | 0.13738174855240 |
| 51  | 9.521 | 50.000 | 80098  | 9.697 | 40.000 | 460974 | 0.13900653832971 |
| 52  | 9.521 | 50.000 | 71155  | 9.697 | 40.000 | 428920 | 0.13271472535671 |
| 53  | 9.521 | 50.000 | 72603  | 9.697 | 40.000 | 415811 | 0.13968461632809 |
| 54  | 9.526 | 50.000 | 108254 | 9.702 | 40.000 | 650674 | 0.13309768025155 |
| 55  | 9.568 | 50.000 | 64139  | 9.744 | 40.000 | 411802 | 0.12460162893818 |
| 56  | 9.578 | 50.000 | 85309  | 9.754 | 40.000 | 511730 | 0.13336564203779 |
| 57  | 9.599 | 50.000 | 78595  | 9.785 | 40.000 | 486034 | 0.12936543533991 |
| 58  | 9.609 | 50.000 | 72755  | 9.785 | 40.000 | 467607 | 0.12447204597023 |
| 59  | 9.609 | 50.000 | 67958  | 9.785 | 40.000 | 451801 | 0.12033262431911 |
| 60  | 9.609 | 50.000 | 63635  | 9.785 | 40.000 | 418038 | 0.12177840292031 |
|     |       |        |        |       |        |        |                  |
| Avg | 9.411 | 50.000 | 72233  | 9.581 | 40.000 | 6967   | 0.12849428241810 |

| Ind | Sublist   | Calibration File                     |
|-----|-----------|--------------------------------------|
| 1   | 1_8270STD | \\sv5\c\chem\sv5.i\100210.B\HSL1002H |
| 2   | 1_8270STD | \\SV5\C\chem\sv5.i\100210.B\HSL1002D |

|              |                                      |  |
|--------------|--------------------------------------|--|
| 3 1_8270STD  | \SV5\C\chem\sv5.i\100110.B\HSL1001   |  |
| 4 1_8270STD  | \SV5\C\chem\sv5.i\093010.B\HSL0930   |  |
| 5 1_8270STD  | \sv5c\chem\sv5.i\092910A.B\HSL0929A  |  |
| 6 1_8270STD  | \SV5\C\chem\sv5.i\092910.B\HSL0929   |  |
| 7 1_8270STD  | \SV5\C\chem\sv5.i\092910.B\QC001     |  |
| 8 1_8270STD  | \SV5\C\chem\sv5.i\092810A.B\HSL0928  |  |
| 9 1_8270STD  | \SV5\C\chem\sv5.i\092810.B\HSL0928   |  |
| 10 1_8270STD | \SV5\C\chem\sv5.i\092710.B\HSL0927   |  |
| 11 1_8270STD | \SV5\C\chem\sv5.i\092510.B\QC001     |  |
| 12 1_8270STD | \sv5c\chem\sv5.i\092510.B\HSL0925    |  |
| 13 1_8270STD | \SV5\C\chem\sv5.i\092410.B\QC001     |  |
| 14 1_8270STD | \SV5\C\chem\sv5.i\092410.B\HSL0924   |  |
| 15 1_8270STD | \SV5\C\chem\sv5.i\092310A.B\HSL0923A |  |
| 16 1_8270STD | \SV5\C\chem\sv5.i\092310A.B\QC001    |  |
| 17 1_8270STD | \SV5\C\chem\sv5.i\092310.B\QC001     |  |
| 18 1_8270STD | \SV5\C\chem\sv5.i\092310.B\HSL0923   |  |
| 19 1_8270STD | \SV5\C\chem\sv5.i\092210.B\HSL0922a  |  |
| 20 1_8270STD | \SV5\C\chem\sv5.i\092210.B\HSL0922   |  |
| 21 1_8270STD | \SV5\C\chem\sv5.i\092210.B\QC001     |  |
| 22 1_8270STD | \SV5\C\chem\sv5.i\092110.B\HSL0921   |  |
| 23 1_8270STD | \SV5\C\chem\sv5.i\092010.B\QC001     |  |
| 24 1_8270STD | \SV5\C\chem\sv5.i\092010.B\HSL0920   |  |
| 25 1_8270STD | \SV5\C\chem\sv5.i\091910a.B\HSL0919a |  |
| 26 1_8270STD | \SV5\C\chem\sv5.i\091910.B\HSL0919   |  |
| 27 1_8270STD | \SV5\C\chem\sv5.i\091910.B\QC001     |  |
| 28 1_8270STD | \SV5\C\chem\sv5.i\091710.B\HSL0917   |  |
| 29 1_8270STD | \SV5\C\chem\sv5.i\091710.B\QC001     |  |
| 30 1_8270STD | \SV5\C\chem\sv5.i\091510b.B\HSL0915b |  |
| 31 1_8270STD | \SV5\C\chem\sv5.i\091510b.B\QC003    |  |
| 32 1_8270STD | \sv5c\chem\sv5.i\091010.B\HSL0910    |  |
| 33 1_8270STD | \SV5\C\chem\sv5.i\091010.B\QC001     |  |
| 34 1_8270STD | \sv5c\chem\sv5.i\090910a.B\HSL0909a  |  |
| 35 1_8270STD | \SV5\C\chem\sv5.i\090910.B\HSL0909   |  |

|              |                                      |         |
|--------------|--------------------------------------|---------|
| 36 1_8270STD | \sv5\c\chem\sv5.i\090910.B\QC001     |         |
| +-----+      |                                      | +-----+ |
| 37 1_8270STD | \sv5\c\chem\sv5.i\090810.B\HSL0908   |         |
| +-----+      |                                      | +-----+ |
| 38 1_8270STD | \sv5\c\chem\sv5.i\090810.B\Primer    |         |
| +-----+      |                                      | +-----+ |
| 39 1_8270STD | \sv5\c\chem\sv5.i\090710.B\HSL0907   |         |
| +-----+      |                                      | +-----+ |
| 40 1_8270STD | \sv5\c\chem\sv5.i\090710.B\HSL0907   |         |
| +-----+      |                                      | +-----+ |
| 41 1_8270STD | \sv5\c\chem\sv5.i\090110.B\HSL0901   |         |
| +-----+      |                                      | +-----+ |
| 42 1_8270STD | \sv5\c\chem\sv5.i\083110.B\HSL0831   |         |
| +-----+      |                                      | +-----+ |
| 43 1_8270STD | \sv5\c\chem\sv5.i\083010.B\QC001     |         |
| +-----+      |                                      | +-----+ |
| 44 1_8270STD | \sv5\c\chem\sv5.i\083010.B\HSL0830   |         |
| +-----+      |                                      | +-----+ |
| 45 1_8270STD | \sv5\c\chem\sv5.i\082710.B\QC001     |         |
| +-----+      |                                      | +-----+ |
| 46 1_8270STD | \sv5\c\chem\sv5.i\082710.B\HSL0827   |         |
| +-----+      |                                      | +-----+ |
| 47 1_8270STD | \sv5\c\chem\sv5.i\082610.B\HSL0826   |         |
| +-----+      |                                      | +-----+ |
| 48 1_8270STD | \sv5\c\chem\sv5.i\082610.B\QC001     |         |
| +-----+      |                                      | +-----+ |
| 49 1_8270STD | \sv5\c\chem\sv5.i\082510.B\QC001     |         |
| +-----+      |                                      | +-----+ |
| 50 1_8270STD | \sv5\c\chem\sv5.i\082510.B\HSL0825   |         |
| +-----+      |                                      | +-----+ |
| 51 1_8270STD | \sv5\c\chem\sv5.i\082310B.B\HSL0823  |         |
| +-----+      |                                      | +-----+ |
| 52 1_8270STD | \sv5\c\chem\sv5.i\082310B.B\HSL0823H |         |
| +-----+      |                                      | +-----+ |
| 53 1_8270STD | \sv5\c\chem\sv5.i\082310B.B\HSL0823D |         |
| +-----+      |                                      | +-----+ |
| 54 1_8270STD | \sv5\c\chem\sv5.i\082310A.B\HSL0823A |         |
| +-----+      |                                      | +-----+ |
| 55 1_8270STD | \sv5\c\chem\sv5.i\082010.B\HSL0820   |         |
| +-----+      |                                      | +-----+ |
| 56 1_8270STD | \sv5\c\chem\sv5.i\082010.B\QC001     |         |
| +-----+      |                                      | +-----+ |
| 57 1_8270STD | \sv5\c\chem\sv5.i\081810A.B\HSL0818A |         |
| +-----+      |                                      | +-----+ |
| 58 1_8270STD | \sv5\c\chem\sv5.i\081810.B\HSL0818   |         |
| +-----+      |                                      | +-----+ |
| 59 1_8270STD | \sv5\c\chem\sv5.i\081710.B\HSL0817D  |         |
| +-----+      |                                      | +-----+ |
| 60 1_8270STD | \sv5\c\chem\sv5.i\081710.B\HSL0817H  |         |
| +-----+      |                                      | +-----+ |

TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

| Compound          | Tail Factor | Max Allowed | Test |
|-------------------|-------------|-------------|------|
| Pentachlorophenol | 0.6825896   | 5.000       | PASS |
| Benzidine         | 0.6244503   | 3.000       | PASS |

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound      | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDD + DDE | 189907   | 8.9        | 20.5        | PASS |

Sample //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D

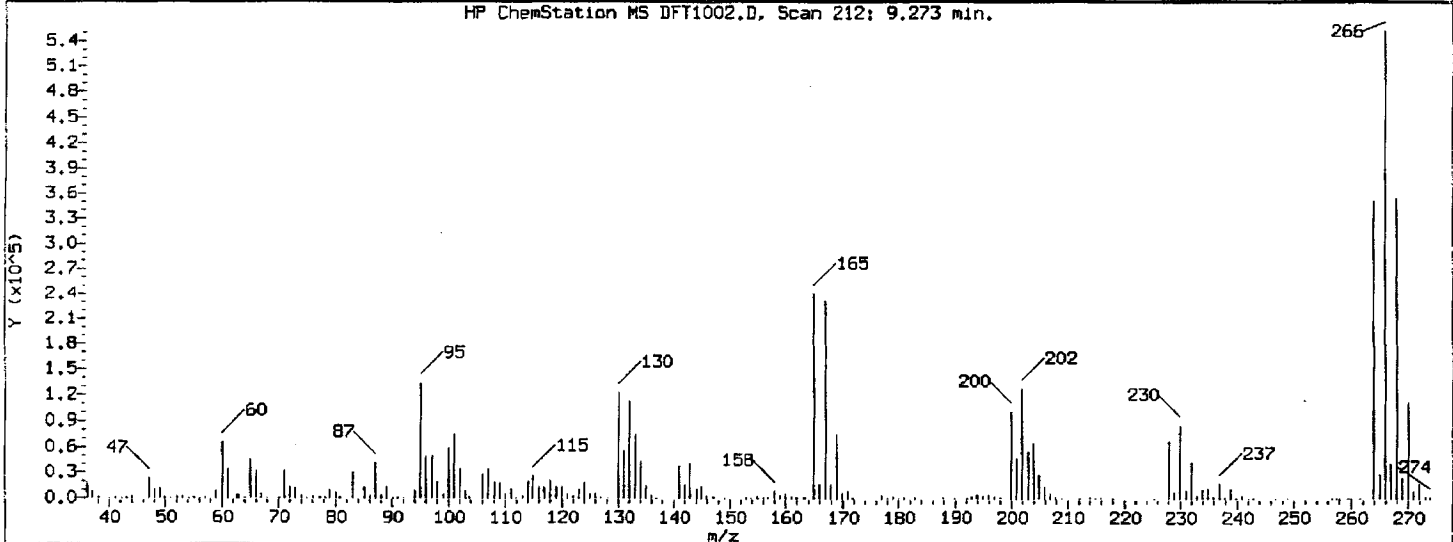
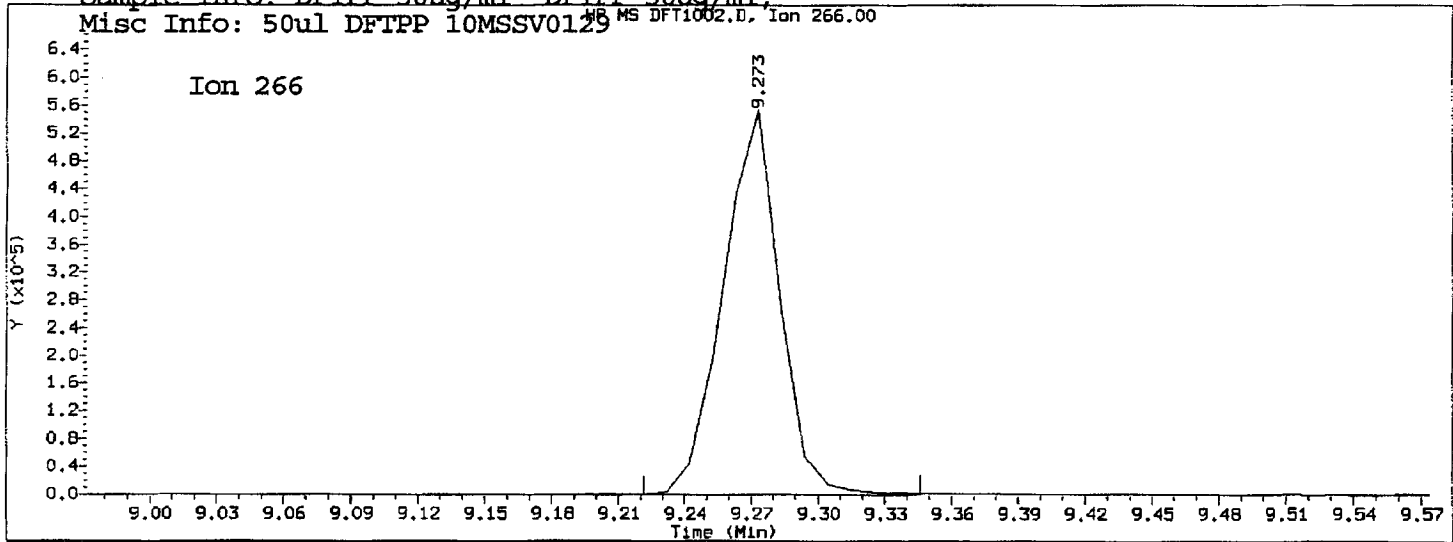
\*\*\*\*\*  
 \*\*\* PASSED \*\*\*  
 \*\*\*\*\*



TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D  
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 02-OCT-2010 12:06 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



Pentachlorophenol

=====  
Exp. RT = 9.387  
Found RT = 9.273

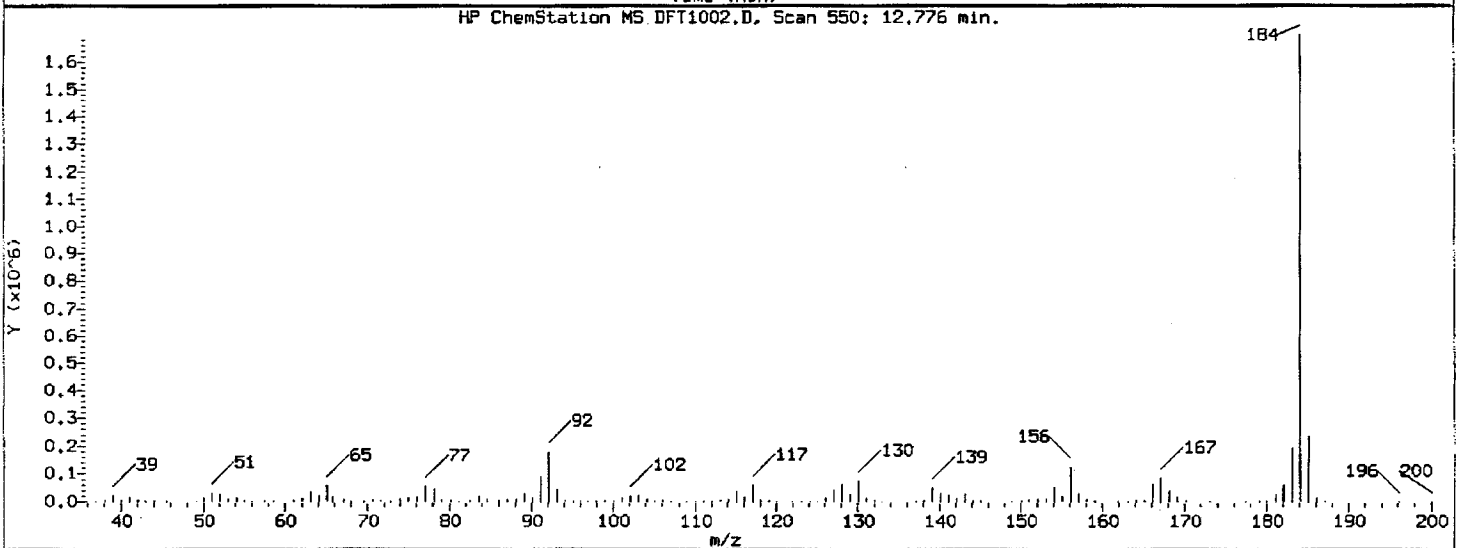
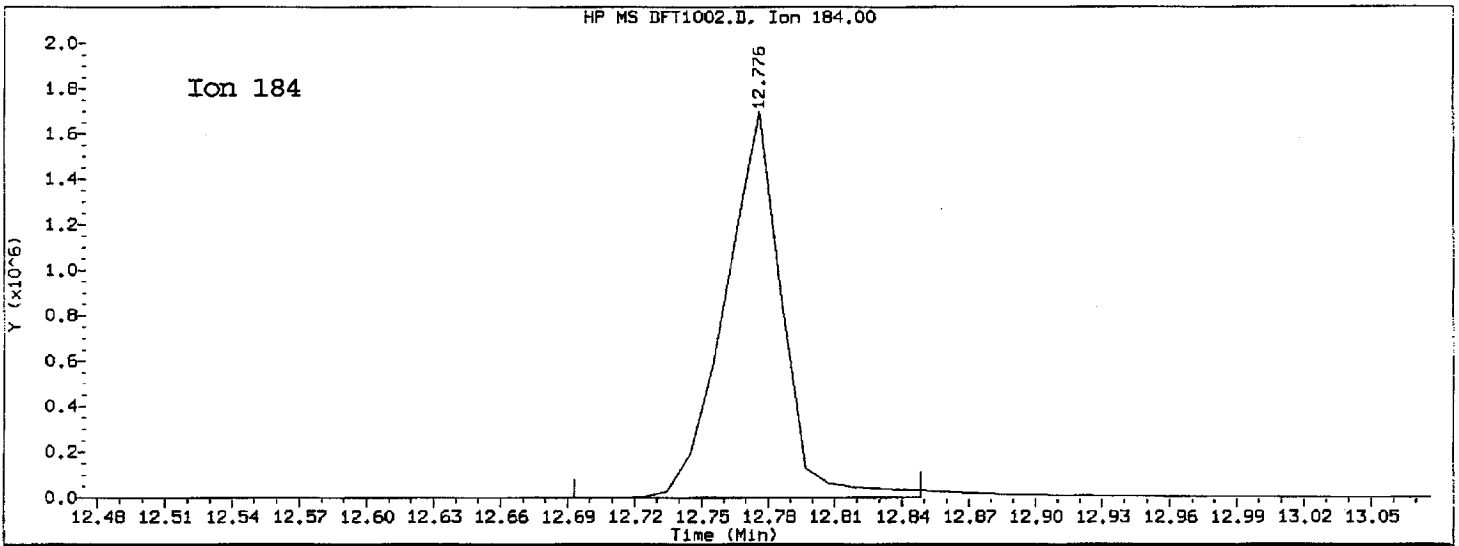
Time1 = 9.243001    Time2 = 9.273333    Time3 = 9.294038  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.683    Maximum Allowed = 5.0

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D  
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 02-OCT-2010 12:06 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine

=====  
Exp. RT = 12.911  
Found RT = 12.776

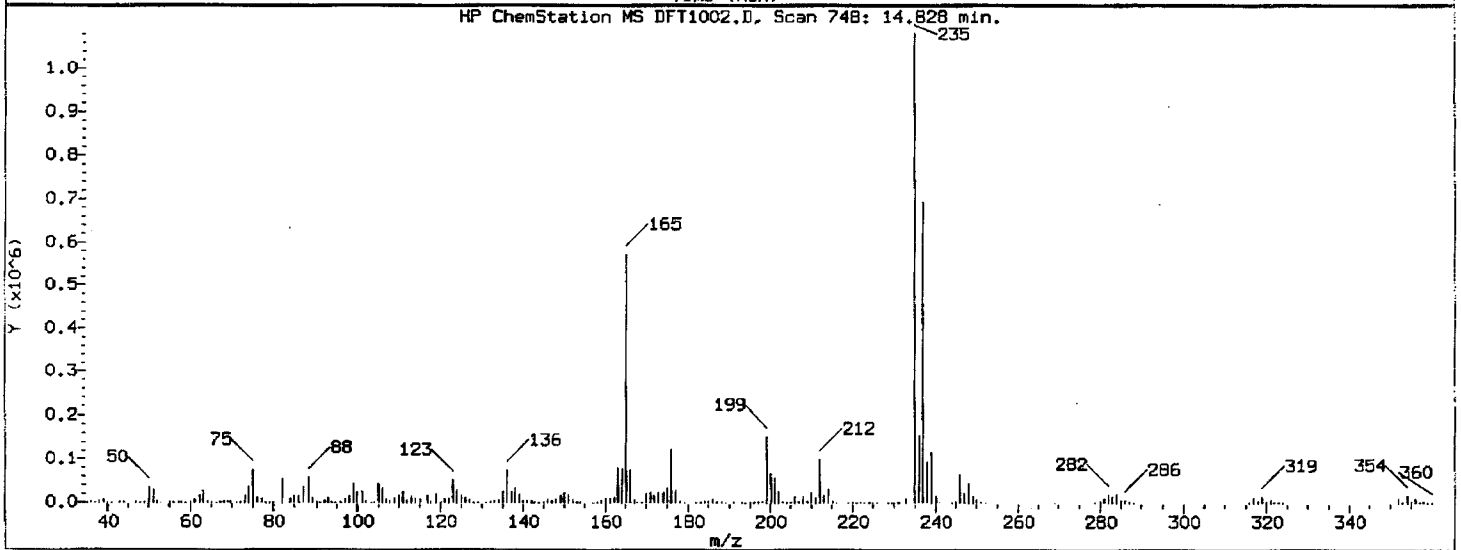
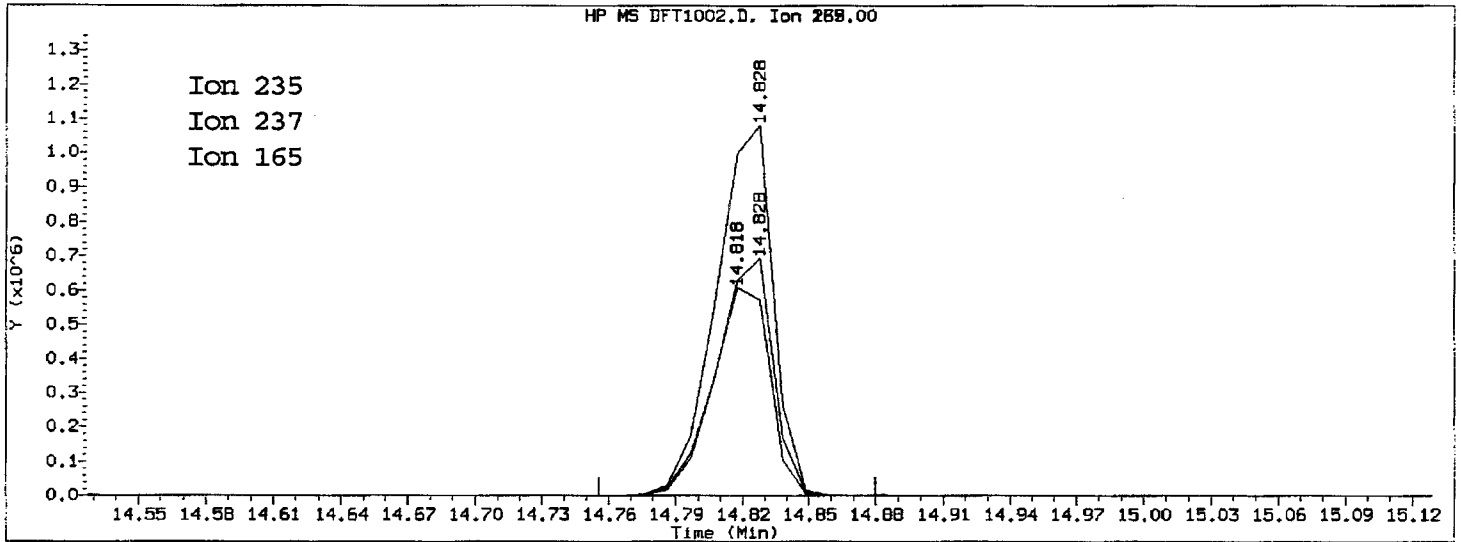
Time1 = 12.74377 Time2 = 12.77603 Time3 = 12.79618  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.624 Maximum Allowed = 3.0

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D  
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 02-OCT-2010 12:06 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



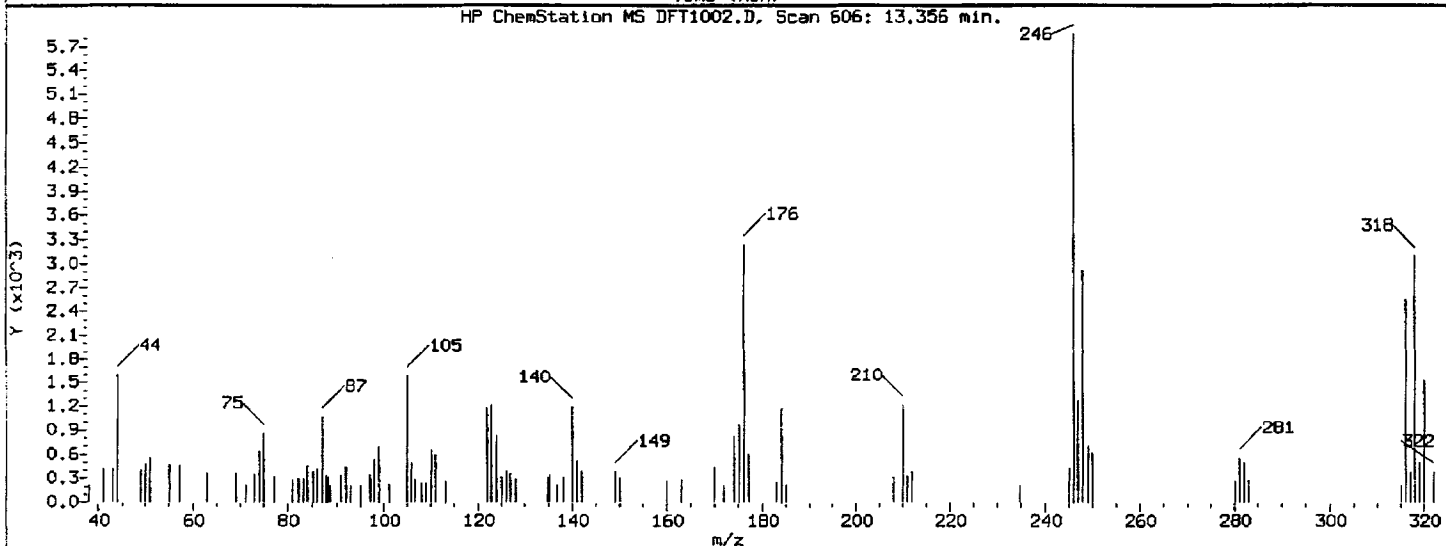
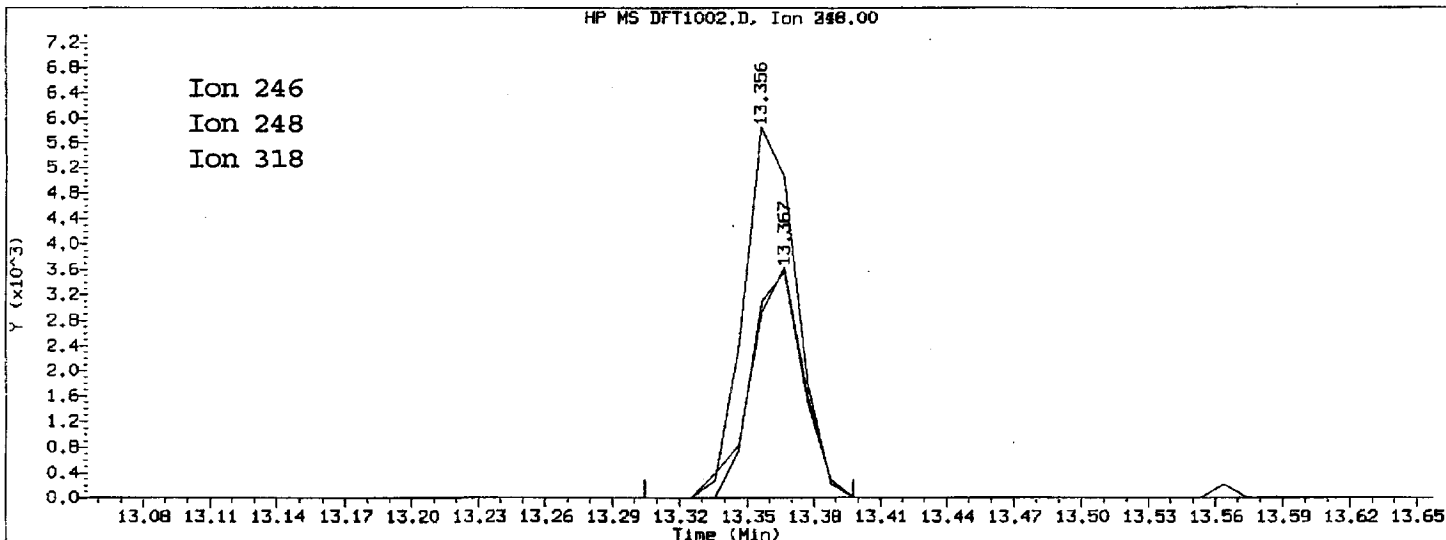
4,4'-DDT

=====  
Exp. RT = 14.942  
Found RT = 14.828

| Mass | Area    | Ratio  |
|------|---------|--------|
| 235  | 1937042 | 100.00 |
| 237  | 1226081 | 63.30  |
| 165  | 1111108 | 57.36  |

Report Date: 10/03/2010 11:04

Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D  
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 02-OCT-2010 12:06 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



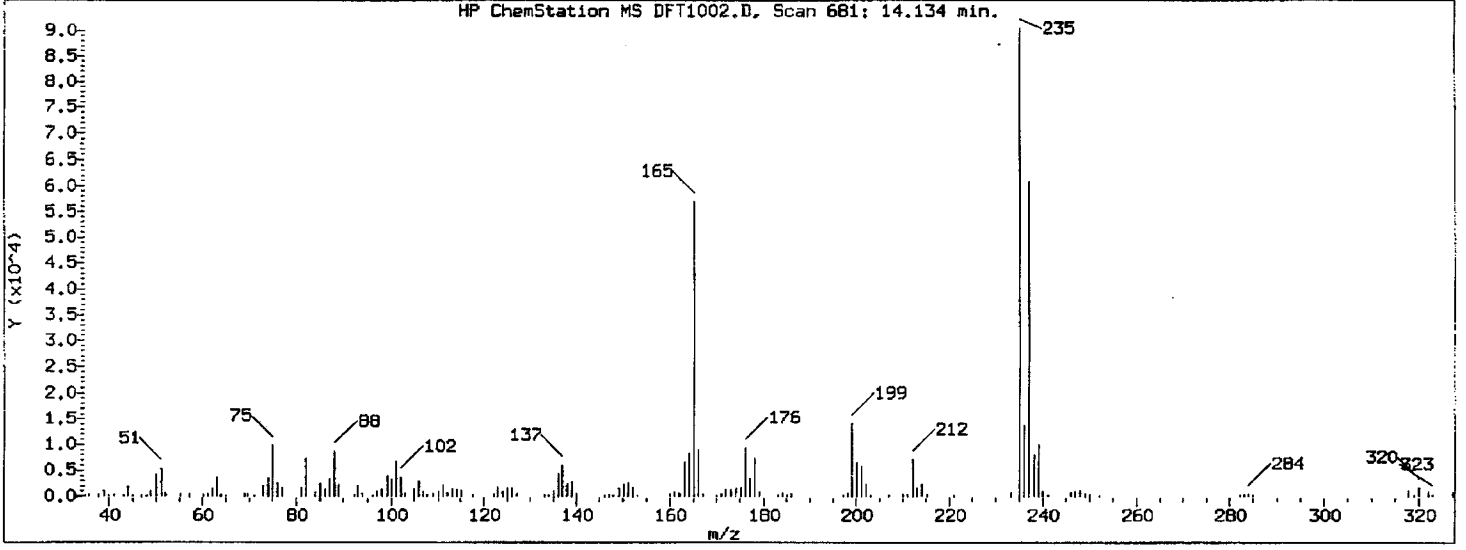
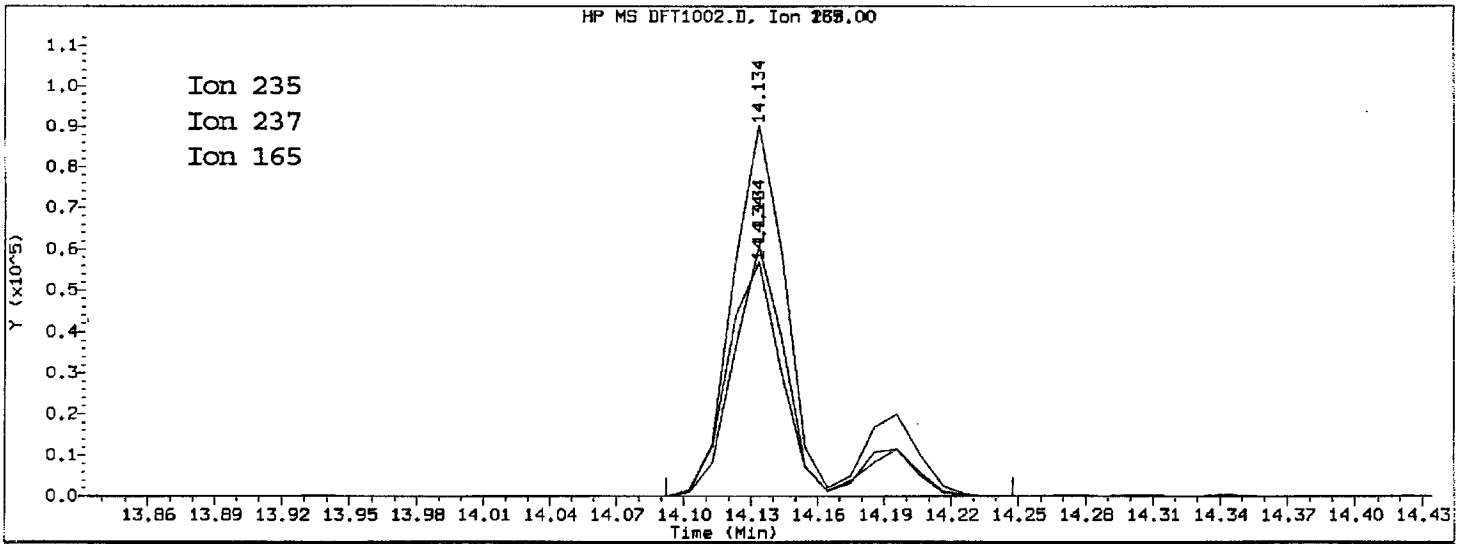
4,4'-DDE

=====  
Exp. RT = 13.470  
Found RT = 13.356

| Mass | Area | Ratio  |
|------|------|--------|
| 246  | 9630 | 100.00 |
| 248  | 5964 | 61.93  |
| 318  | 0    | 0.00   |

Report Date: 10/03/2010 11:04

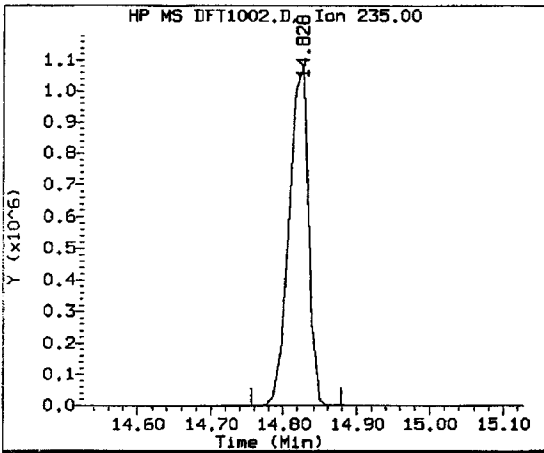
Datafile Analyzed: //SV5/C/chem/sv5.i/100210.B/DFT1002.D/DFT1002.D  
Method Used: \\SV5\C\chem\sv5.i\100210.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 02-OCT-2010 12:06 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



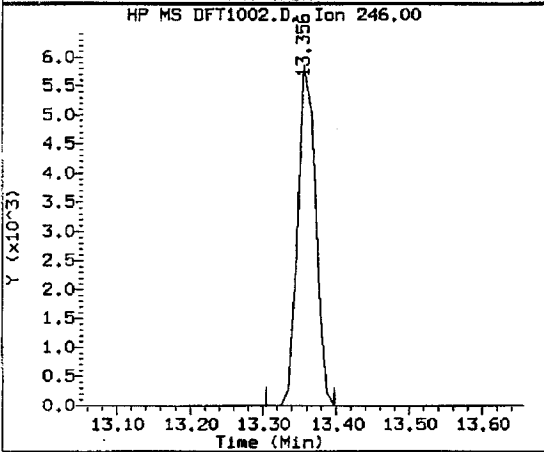
4,4'-DDD

=====  
Exp. RT = 14.248  
Found RT = 14.134

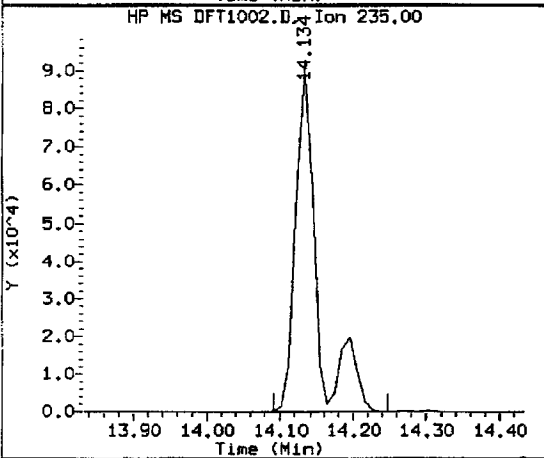
| Mass | Area   | Ratio  |
|------|--------|--------|
| 235  | 180277 | 100.00 |
| 237  | 115795 | 64.23  |
| 165  | 113090 | 62.73  |



Compound: 4,4'-DDT  
 Quant Mass: 235  
 RT: 14.828  
 Area: 1937042



Compound: 4,4'-DDE  
 Quant Mass: 246  
 RT: 13.356  
 Area: 9630



Compound: 4,4'-DDD  
 Quant Mass: 235  
 RT: 14.134  
 Area: 180277

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

| Compound      | Response | %Breakdown | Max Allowed | Test |
|---------------|----------|------------|-------------|------|
| 4,4-DDD + DDE | 189907   | 8.9        | 20.5        | PASS |

TestAmerica West Sacramento

Data file : \\SV5\C\chem\sv5.i\100210.B\DFT1002.D  
 Lab Smp Id: DFTPP 50ug/ml  
 Inj Date : 02-OCT-2010 12:06  
 Operator : KT  
 Smp Info : DFTPP 50ug/ml;  
 Misc Info : 50ul DFTPP 10MSSV0129  
 Comment :  
 Method : \\SV5\C\chem\sv5.i\100210.B\DFTPP.m  
 Meth Date : 17-Aug-2010 14:10 scotts  
 Cal Date :  
 Als bottle: 96  
 Dil Factor: 1.00000  
 Integrator: HP RTE  
 Target Version: 4.14  
 Processing Host: SV5

Inst ID: sv5.i  
 Quant Type: ISTD  
 Cal File:  
 QC Sample: DFTPP  
 Compound Sublist: all.sub  
 Sample Matrix: None

| CONCENTRATIONS |        |          |      |          |                  |               |               |        |  |
|----------------|--------|----------|------|----------|------------------|---------------|---------------|--------|--|
| RT             | EXP RT | REL RT   | MASS | RESPONSE | CONCENTRATIONS   |               | TARGET RANGE  | RATIO  |  |
|                |        |          |      |          | ON-COL ( ug/L)   | FINAL ( ug/L) |               |        |  |
| -----          |        |          |      |          |                  |               |               |        |  |
| 1 dftpp        |        |          |      |          | CAS #: 5074-71-5 |               |               |        |  |
| 0.000          | 11.201 | ( 0.000) | 198  | 746688   |                  |               | 0.00- 100.00  | 100.00 |  |
| 0.000          | 11.201 | ( 0.000) | 51   | 320640   |                  |               | 30.00- 80.00  | 42.94  |  |
| 0.000          | 11.201 | ( 0.000) | 68   | 4826     |                  |               | 0.00- 2.00    | 1.62   |  |
| 0.000          | 11.201 | ( 0.000) | 69   | 298048   |                  |               | 0.00- 0.00    | 39.92  |  |
| 0.000          | 11.201 | ( 0.000) | 70   | 1913     |                  |               | 0.00- 2.00    | 0.64   |  |
| 0.000          | 11.201 | ( 0.000) | 127  | 406528   |                  |               | 25.00- 75.00  | 54.44  |  |
| 0.000          | 11.201 | ( 0.000) | 197  | 0        | 0.0              | 0.0           | 0.00- 1.00    | 0.00   |  |
| 0.000          | 11.201 | ( 0.000) | 199  | 49104    |                  |               | 5.00- 9.00    | 6.58   |  |
| 0.000          | 11.201 | ( 0.000) | 275  | 170816   |                  |               | 10.00- 30.00  | 22.88  |  |
| 0.000          | 11.201 | ( 0.000) | 365  | 20496    |                  |               | 0.75- 0.00    | 2.74   |  |
| 0.000          | 11.201 | ( 0.000) | 441  | 100984   |                  |               | 0.01- 99.99   | 74.22  |  |
| 0.000          | 11.201 | ( 0.000) | 442  | 702528   |                  |               | 40.00- 110.00 | 94.09  |  |
| 0.000          | 11.201 | ( 0.000) | 443  | 136064   |                  |               | 15.00- 24.00  | 19.37  |  |
| -----          |        |          |      |          |                  |               |               |        |  |

Date : 02-OCT-2010 12:06

Client ID:

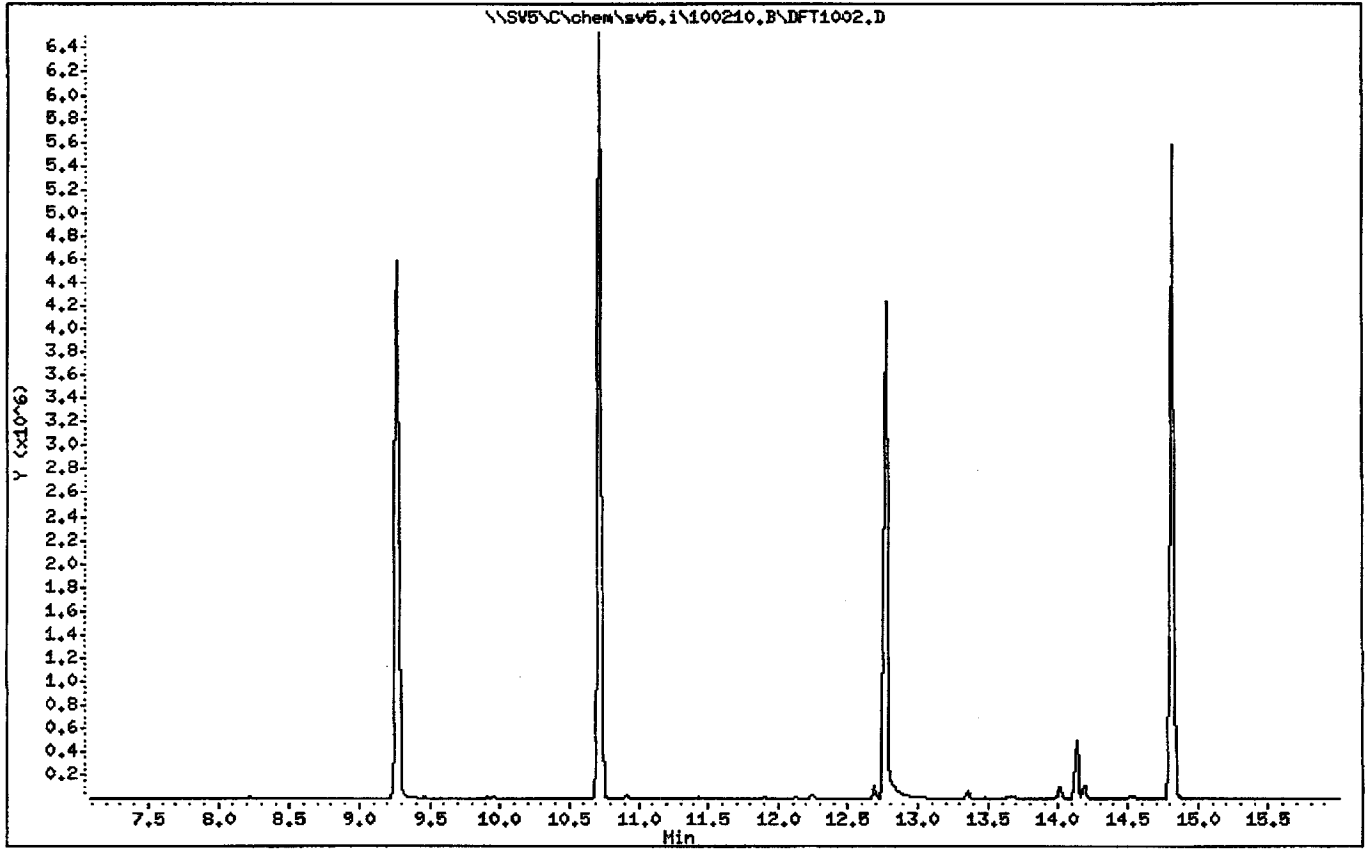
Instrument: sv5.1

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2,00





Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.1

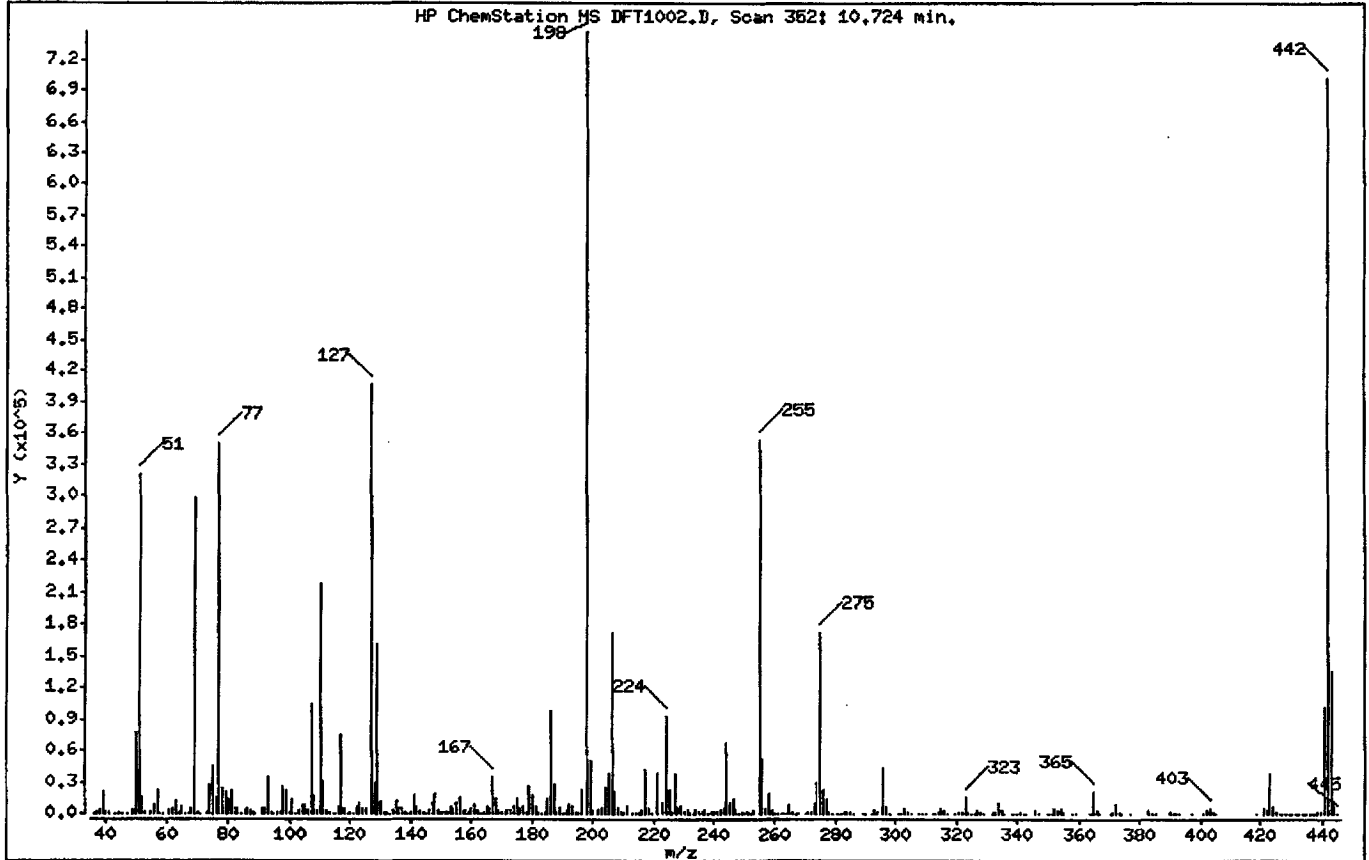
Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

1 dftpp



| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 198 | Base Peak, 100% relative abundance | 100.00               |
| 51  | 30.00 - 80.00% of mass 198         | 42.94                |
| 68  | Less than 2.00% of mass 69         | 0.65 ( 1.62)         |
| 69  | Mass 69 relative abundance         | 39.92                |
| 70  | Less than 2.00% of mass 69         | 0.26 ( 0.64)         |
| 127 | 25.00 - 75.00% of mass 198         | 54.44                |
| 197 | Less than 1.00% of mass 198        | 0.00                 |
| 199 | 5.00 - 9.00% of mass 198           | 6.58                 |
| 275 | 10.00 - 30.00% of mass 198         | 22.88                |
| 365 | Greater than 0.75% of mass 198     | 2.74                 |
| 441 | Present, but less than mass 443    | 13.52                |
| 442 | 40.00 - 110.00% of mass 198        | 94.09                |
| 443 | 15.00 - 24.00% of mass 442         | 18.22 ( 19.37)       |

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1002.D  
 Spectrum: HP ChemStation MS DFT1002.D, Scan 352: 10.724 min.  
 Location of Maximum: 198.00  
 Number of points: 340

| m/z   | Y      | m/z    | Y     | m/z    | Y      | m/z    | Y     |
|-------|--------|--------|-------|--------|--------|--------|-------|
| 36.10 | 203    | 130.00 | 12809 | 219.20 | 447    | 321.00 | 1763  |
| 37.10 | 1216   | 131.00 | 2287  | 221.00 | 37608  | 322.10 | 913   |
| 38.10 | 3314   | 132.00 | 1225  | 223.10 | 9674   | 323.10 | 16294 |
| 39.10 | 21392  | 133.00 | 620   | 224.10 | 93432  | 324.10 | 2245  |
| 40.00 | 1076   | 134.00 | 3794  | 225.10 | 21544  | 324.80 | 382   |
| 41.10 | 949    | 135.10 | 11378 | 226.10 | 1736   | 326.00 | 507   |
| 43.10 | 352    | 136.00 | 4886  | 227.00 | 37976  | 327.00 | 2789  |
| 44.00 | 922    | 137.00 | 5203  | 228.00 | 4945   | 328.00 | 1262  |
| 45.00 | 428    | 138.00 | 1265  | 229.00 | 7548   | 329.10 | 343   |
| 47.00 | 204    | 139.00 | 791   | 230.00 | 1024   | 331.90 | 894   |
| 49.10 | 2676   | 140.00 | 2233  | 231.10 | 2757   | 333.00 | 1455  |
| 50.10 | 77024  | 141.00 | 17480 | 232.00 | 528    | 334.10 | 9590  |
| 51.10 | 320640 | 142.00 | 7259  | 233.00 | 641    | 335.00 | 2774  |
| 52.10 | 16189  | 143.00 | 3921  | 234.00 | 2909   | 336.00 | 291   |
| 53.10 | 963    | 144.00 | 1375  | 235.00 | 2419   | 339.00 | 369   |
| 55.00 | 1815   | 145.10 | 829   | 236.10 | 1608   | 340.00 | 399   |
| 56.00 | 8872   | 146.00 | 3251  | 237.00 | 3192   | 341.00 | 2042  |
| 57.00 | 22504  | 147.00 | 9463  | 238.00 | 581    | 342.10 | 852   |
| 58.00 | 755    | 148.00 | 18744 | 239.00 | 1165   | 343.20 | 220   |
| 59.10 | 372    | 149.00 | 4031  | 240.00 | 1065   | 346.00 | 2819  |
| 61.00 | 3888   | 150.10 | 1094  | 241.00 | 1870   | 346.90 | 608   |
| 62.00 | 4800   | 151.20 | 2277  | 242.00 | 3682   | 350.30 | 205   |
| 63.10 | 11199  | 152.10 | 1506  | 243.10 | 4924   | 351.00 | 283   |
| 64.10 | 1448   | 153.00 | 6113  | 244.10 | 66488  | 352.00 | 5049  |
| 65.10 | 6509   | 154.00 | 5445  | 245.10 | 9865   | 353.10 | 3110  |
| 66.00 | 499    | 155.00 | 10151 | 246.00 | 14573  | 354.00 | 5432  |
| 67.10 | 461    | 156.10 | 14866 | 247.00 | 3022   | 355.00 | 1087  |
| 68.00 | 4826   | 157.10 | 3676  | 248.10 | 618    | 358.00 | 241   |
| 69.00 | 298048 | 158.10 | 3734  | 249.00 | 2441   | 359.00 | 574   |
| 70.10 | 1913   | 159.00 | 2313  | 250.00 | 627    | 363.50 | 249   |
| 71.10 | 410    | 160.00 | 5246  | 250.90 | 1000   | 365.00 | 20496 |
| 73.10 | 2021   | 161.10 | 8666  | 252.00 | 756    | 366.00 | 3166  |
| 74.00 | 28000  | 162.00 | 2863  | 253.10 | 2603   | 367.00 | 225   |
| 75.00 | 45304  | 163.10 | 562   | 255.00 | 353024 | 370.10 | 477   |
| 76.10 | 15795  | 164.00 | 1067  | 256.00 | 51440  | 370.90 | 1541  |

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.1

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1002.D  
 Spectrum: HP ChemStation MS DFT1002.D, Scan 352: 10.724 min.  
 Location of Maximum: 198.00  
 Number of points: 340

| m/z    | Y      | m/z    | Y      | m/z    | Y      | m/z    | Y     |
|--------|--------|--------|--------|--------|--------|--------|-------|
| 77.10  | 349952 | 165.00 | 6962   | 257.00 | 4474   | 372.10 | 8489  |
| 78.10  | 23464  | 166.00 | 5717   | 258.00 | 19504  | 373.10 | 1814  |
| 79.00  | 20048  | 167.00 | 33648  | 259.10 | 3095   | 373.80 | 348   |
| 80.00  | 14146  | 168.00 | 13682  | 260.00 | 645    | 377.10 | 263   |
| 81.00  | 22008  | 169.00 | 2802   | 261.10 | 797    | 383.00 | 2624  |
| 82.00  | 5822   | 170.00 | 1014   | 262.20 | 249    | 383.90 | 598   |
| 83.00  | 5093   | 171.00 | 1339   | 263.00 | 269    | 385.00 | 289   |
| 84.00  | 814    | 172.00 | 3224   | 264.10 | 532    | 390.00 | 1367  |
| 85.00  | 3848   | 173.00 | 4109   | 265.00 | 7904   | 391.00 | 754   |
| 86.00  | 5985   | 174.00 | 7189   | 266.00 | 1181   | 392.10 | 664   |
| 87.00  | 2652   | 175.10 | 13638  | 267.20 | 204    | 393.20 | 281   |
| 88.00  | 1078   | 176.10 | 4293   | 267.60 | 232    | 397.00 | 230   |
| 89.00  | 472    | 177.00 | 6577   | 270.00 | 489    | 400.90 | 335   |
| 91.00  | 5074   | 178.10 | 1972   | 271.00 | 901    | 402.00 | 3464  |
| 92.00  | 5292   | 179.00 | 25912  | 272.10 | 1129   | 403.00 | 5568  |
| 93.00  | 34848  | 180.00 | 16984  | 273.00 | 10963  | 404.10 | 1777  |
| 94.00  | 2386   | 181.00 | 7182   | 274.00 | 30032  | 405.00 | 292   |
| 95.00  | 749    | 182.00 | 1363   | 275.00 | 170816 | 418.90 | 289   |
| 96.00  | 1660   | 183.00 | 559    | 276.10 | 22944  | 421.00 | 5400  |
| 97.10  | 1007   | 184.10 | 2227   | 277.00 | 13493  | 422.00 | 4183  |
| 98.00  | 25944  | 185.10 | 13301  | 278.10 | 2251   | 423.00 | 37592 |
| 99.00  | 21688  | 186.00 | 97584  | 279.00 | 648    | 424.00 | 6802  |
| 100.00 | 1844   | 187.10 | 27792  | 281.10 | 266    | 425.00 | 930   |
| 101.00 | 13609  | 188.10 | 2556   | 282.00 | 217    | 426.50 | 251   |
| 102.10 | 646    | 189.00 | 5094   | 283.00 | 1957   | 427.30 | 338   |
| 103.00 | 3748   | 189.90 | 756    | 284.00 | 1097   | 428.40 | 200   |
| 104.00 | 8390   | 191.10 | 2995   | 285.10 | 2569   | 429.20 | 300   |
| 105.00 | 8359   | 192.00 | 7909   | 286.10 | 444    | 430.20 | 272   |
| 106.10 | 3007   | 193.00 | 7605   | 289.00 | 691    | 431.10 | 404   |
| 107.00 | 104896 | 194.10 | 1998   | 290.10 | 589    | 431.50 | 324   |
| 108.00 | 17616  | 195.10 | 1331   | 292.10 | 763    | 432.20 | 298   |
| 109.00 | 3545   | 196.00 | 22448  | 293.00 | 3141   | 432.50 | 326   |
| 110.00 | 218112 | 198.00 | 746688 | 294.10 | 1275   | 433.30 | 317   |
| 111.00 | 30736  | 199.00 | 49104  | 296.00 | 42616  | 433.70 | 342   |
| 112.00 | 4281   | 200.00 | 4038   | 297.00 | 6196   | 434.30 | 362   |

Date : 02-OCT-2010 12:06

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT1002.D  
 Spectrum: HP ChemStation MS DFT1002.D, Scan 352: 10.724 min.  
 Location of Maximum: 198.00  
 Number of points: 340

| m/z    | Y      | m/z    | Y      | m/z    | Y    | m/z    | Y      |
|--------|--------|--------|--------|--------|------|--------|--------|
| 113.00 | 1310   | 201.60 | 4029   | 298.00 | 465  | 434.90 | 650    |
| 114.40 | 467    | 203.00 | 4788   | 301.00 | 504  | 435.90 | 530    |
| 115.00 | 646    | 204.00 | 23416  | 302.00 | 695  | 436.50 | 586    |
| 116.10 | 6327   | 205.00 | 36288  | 303.10 | 5810 | 436.90 | 846    |
| 117.00 | 75520  | 206.10 | 172352 | 304.00 | 2035 | 437.50 | 828    |
| 118.00 | 5507   | 207.10 | 21328  | 305.10 | 290  | 438.20 | 1136   |
| 119.00 | 839    | 208.00 | 5487   | 308.00 | 764  | 439.30 | 1287   |
| 120.10 | 1180   | 209.00 | 2186   | 309.10 | 446  | 441.00 | 100984 |
| 121.00 | 807    | 210.00 | 2002   | 310.00 | 839  | 442.00 | 702528 |
| 122.00 | 6408   | 211.10 | 7473   | 312.20 | 271  | 443.00 | 136064 |
| 123.00 | 10302  | 213.00 | 410    | 312.90 | 292  | 444.00 | 12344  |
| 124.00 | 4600   | 214.10 | 372    | 314.00 | 2431 | 445.10 | 689    |
| 125.00 | 4447   | 215.10 | 1837   | 315.00 | 5363 |        |        |
| 127.00 | 406528 | 216.00 | 3226   | 316.00 | 2900 |        |        |
| 128.00 | 28392  | 217.00 | 41648  | 317.10 | 363  |        |        |
| 129.00 | 161024 | 218.00 | 5388   | 319.80 | 287  |        |        |

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002A.D  
Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M  
Inj Date : 02-OCT-2010 12:27  
Operator : KT Inst ID: sv5.i  
Smp Info : HSL 005 ug/ml CS-1;1;;1;;;4  
Misc Info : 3;;0;1 8270STD.SUB;10MSSV0307;0;8270F.M  
Comment : SOP SAC-MS-0005  
Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
Al bottle: 1 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
Target Version: 4.14  
Processing Host: SACP307UM

| Compounds                       | QUANT<br>SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|---------------------------------|----------------------|--------|--------|---------|----------|------------------|-----------------|
|                                 |                      |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152                  | 3.955  | 3.955  | (1.000) | 141539   | 40.0000          | (Q)             |
| * 2 Naphthalene-d8              | 136                  | 5.374  | 5.374  | (1.000) | 605687   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164                  | 7.468  | 7.468  | (1.000) | 321839   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188                  | 9.406  | 9.405  | (1.000) | 496356   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240                  | 13.779 | 13.779 | (1.000) | 453007   | 40.0000          |                 |
| * 6 Perylene-d12                | 264                  | 16.162 | 16.162 | (1.000) | 445119   | 40.0000          |                 |
| \$ 7 2-Fluorophenol             | 112                  | 2.742  | 2.732  | (0.693) | 25566    | 5.00000          | 5.124           |
| \$ 8 Phenol-d5                  | 99                   | 3.613  | 3.613  | (0.914) | 30471    | 5.00000          | 4.857           |
| \$ 9 2-Chlorophenol-d4          | 132                  | 3.758  | 3.758  | (0.950) | 26144    | 5.00000          | 4.745           |
| \$ 10 1,2-Dichlorobenzene-d4    | 152                  | 4.162  | 4.162  | (1.052) | 16945    | 5.00000          | 4.861           |
| \$ 11 Nitrobenzene-d5           | 82                   | 4.576  | 4.576  | (0.852) | 25006    | 5.00000          | 4.874 (M)       |
| \$ 12 2-Fluorobiphenyl          | 172                  | 6.680  | 6.680  | (0.895) | 51695    | 5.00000          | 4.986           |
| \$ 13 2,4,6-Tribromophenol      | 330                  | 8.473  | 8.473  | (1.135) | 6048     | 5.00000          | 4.325           |
| \$ 14 Terphenyl-d14             | 244                  | 12.017 | 12.017 | (0.872) | 44456    | 5.00000          | 4.982           |
| 15 N-Nitrosodimethylamine       | 74                   | 1.716  | 1.706  | (0.434) | 16436    | 5.00000          | 5.040 (q)       |
| 16 Pyridine                     | 79                   | 1.737  | 1.726  | (0.439) | 29567    | 5.00000          | 5.422 (q)       |
| 23 Aniline                      | 93                   | 3.654  | 3.654  | (0.924) | 39064    | 5.00000          | 4.892 (Q)       |
| 24 Phenol                       | 94                   | 3.623  | 3.623  | (0.916) | 36112    | 5.00000          | 5.009 (Q)       |
| 26 Bis(2-chloroethyl) ether     | 93                   | 3.716  | 3.716  | (0.940) | 26067    | 5.00000          | 5.157           |
| 27 2-Chlorophenol               | 128                  | 3.768  | 3.768  | (0.953) | 26910    | 5.00000          | 4.863           |
| 28 1,3-Dichlorobenzene          | 146                  | 3.923  | 3.923  | (0.992) | 29883    | 5.00000          | 4.958           |
| 29 1,4-Dichlorobenzene          | 146                  | 3.975  | 3.975  | (1.005) | 31337    | 5.00000          | 4.972           |
| 30 Benzyl Alcohol               | 108                  | 4.120  | 4.120  | (1.042) | 17983    | 5.00000          | 4.835           |
| 31 1,2-Dichlorobenzene          | 146                  | 4.172  | 4.172  | (1.055) | 28663    | 5.00000          | 4.947           |
| 32 2-Methylphenol               | 108                  | 4.255  | 4.255  | (1.076) | 24914    | 5.00000          | 4.923           |
| 33 2,2'-oxybis(1-Chloropropane) | 45                   | 4.297  | 4.297  | (1.086) | 40622    | 5.00000          | 5.049           |
| 34 4-Methylphenol               | 108                  | 4.421  | 4.421  | (1.118) | 26292    | 5.00000          | 4.891           |
| 36 Hexachloroethane             | 117                  | 4.504  | 4.504  | (1.139) | 10779    | 5.00000          | 5.024           |
| 37 N-Nitrosodimethylamine       | 70                   | 4.442  | 4.442  | (1.123) | 16719    | 5.00000          | 4.670           |
| 42 Nitrobenzene                 | 77                   | 4.597  | 4.597  | (0.855) | 24875    | 5.00000          | 4.960           |
| 44 Isophorone                   | 82                   | 4.856  | 4.856  | (0.904) | 48024    | 5.00000          | 4.980           |
| 45 2-Nitrophenol                | 139                  | 4.960  | 4.960  | (0.923) | 14088    | 5.00000          | 4.735           |
| 46 2,4-Dimethylphenol           | 107                  | 5.012  | 5.012  | (0.933) | 26089    | 5.00000          | 4.935           |

10-7-10

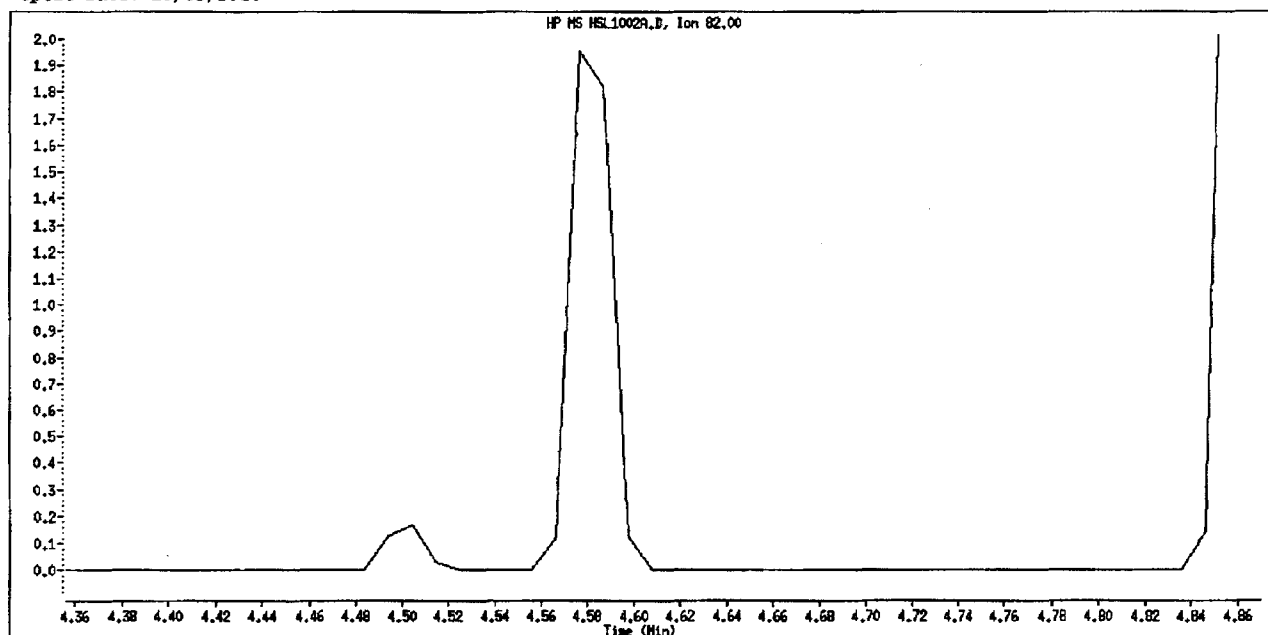
| Compounds                       | QUANT SIG |        | AMOUNTS |         |          |                  |                 |
|---------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT  | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane   | 93        | 5.126  | 5.126   | (0.954) | 31152    | 5.00000          | 5.288           |
| 49 2,4-Dichlorophenol           | 162       | 5.229  | 5.229   | (0.973) | 19256    | 5.00000          | 4.708           |
| 50 Benzoic Acid                 | 122       | 5.084  | 5.115   | (0.946) | 12679    | 5.00000          | 4.333           |
| 51 1,2,4-Trichlorobenzene       | 180       | 5.322  | 5.322   | (0.990) | 22282    | 5.00000          | 5.032           |
| 52 Naphthalene                  | 128       | 5.395  | 5.395   | (1.004) | 83236    | 5.00000          | 4.977           |
| 54 4-Chloroaniline              | 127       | 5.488  | 5.488   | (1.021) | 30853    | 5.00000          | 4.707           |
| 57 Hexachlorobutadiene          | 225       | 5.613  | 5.613   | (1.044) | 10823    | 5.00000          | 4.994           |
| 60 4-Chloro-3-Methylphenol      | 107       | 6.069  | 6.069   | (1.129) | 22205    | 5.00000          | 4.862           |
| 63 2-Methylnaphthalene          | 142       | 6.203  | 6.203   | (1.154) | 51849    | 5.00000          | 4.936           |
| 66 Hexachlorocyclopentadiene    | 237       | 6.483  | 6.483   | (0.868) | 10813    | 5.00000          | 4.503           |
| 69 2,4,6-Trichlorophenol        | 196       | 6.576  | 6.576   | (0.881) | 12546    | 5.00000          | 4.886           |
| 70 2,4,5-Trichlorophenol        | 196       | 6.628  | 6.628   | (0.888) | 12400    | 5.00000          | 4.483           |
| 71 2-Chloronaphthalene          | 162       | 6.784  | 6.784   | (0.908) | 45713    | 5.00000          | 5.047           |
| 73 2-Nitroaniline               | 65        | 6.949  | 6.949   | (0.931) | 12703    | 5.00000          | 4.627           |
| 76 Dimethylphthalate            | 163       | 7.219  | 7.229   | (0.967) | 49639    | 5.00000          | 4.760           |
| 77 Acenaphthylene               | 152       | 7.281  | 7.281   | (0.975) | 75041    | 5.00000          | 4.758           |
| 79 2,6-Dinitrotoluene           | 165       | 7.291  | 7.302   | (0.976) | 11404    | 5.00000          | 4.694 (QM)      |
| 80 3-Nitroaniline               | 138       | 7.447  | 7.447   | (0.997) | 14226    | 5.00000          | 4.691 (Q)       |
| 81 Acenaphthene                 | 153       | 7.509  | 7.509   | (1.006) | 50639    | 5.00000          | 5.044           |
| 82 2,4-Dinitrophenol            | 184       | 7.571  | 7.572   | (1.014) | 4083     | 5.00000          | 6.945 (q)       |
| 83 Dibenzofuran                 | 168       | 7.696  | 7.706   | (1.031) | 63477    | 5.00000          | 4.764           |
| 84 4-Nitrophenol                | 109       | 7.675  | 7.675   | (1.028) | 5114     | 5.00000          | 4.065 (Q)       |
| 86 2,4-Dinitrotoluene           | 165       | 7.768  | 7.768   | (1.040) | 13823    | 5.00000          | 4.335 (q)       |
| 91 Fluorene                     | 166       | 8.131  | 8.131   | (1.089) | 54136    | 5.00000          | 4.906           |
| 92 Diethylphthalate             | 149       | 8.100  | 8.100   | (1.085) | 49177    | 5.00000          | 4.606           |
| 93 4-Chlorophenyl-phenylether   | 204       | 8.152  | 8.152   | (1.092) | 22112    | 5.00000          | 4.820           |
| 94 4-Nitroaniline               | 138       | 8.214  | 8.214   | (1.100) | 13415    | 5.00000          | 4.463           |
| 97 4,6-Dinitro-2-methylphenol   | 198       | 8.276  | 8.276   | (0.880) | 5780     | 5.00000          | 7.325 (q)       |
| 98 N-Nitrosodiphenylamine       | 169       | 8.317  | 8.317   | (0.884) | 41998    | 5.86000          | 5.582           |
| 100 Azobenzene                  | 77        | 8.348  | 8.348   | (0.888) | 48101    | 5.00000          | 4.928           |
| 101 4-Bromophenyl-phenylether   | 248       | 8.794  | 8.794   | (0.935) | 11766    | 5.00000          | 4.856           |
| 108 Hexachlorobenzene           | 284       | 8.981  | 8.981   | (0.955) | 14244    | 5.00000          | 5.264           |
| 110 Pentachlorophenol           | 266       | 9.240  | 9.240   | (0.982) | 5849     | 5.00000          | 7.264           |
| 114 Phenanthrene                | 178       | 9.437  | 9.437   | (1.003) | 80873    | 5.00000          | 5.169           |
| 115 Anthracene                  | 178       | 9.499  | 9.499   | (1.010) | 77577    | 5.00000          | 4.963           |
| 118 Carbazole                   | 167       | 9.768  | 9.768   | (1.039) | 70241    | 5.00000          | 4.920           |
| 120 Di-n-Butylphthalate         | 149       | 10.463 | 10.463  | (1.112) | 79722    | 5.00000          | 4.641           |
| 126 Fluoranthene                | 202       | 11.302 | 11.302  | (1.202) | 64427    | 5.00000          | 4.596           |
| 127 Benzidine                   | 184       | 11.571 | 11.571  | (0.840) | 44267    | 5.00000          | 4.822           |
| 128 Pyrene                      | 202       | 11.665 | 11.665  | (0.847) | 71230    | 5.00000          | 5.030           |
| 134 3,3'-dimethylbenzidine      | 212       | 12.867 | 12.867  | (0.934) | 37074    | 5.00000          | 4.574           |
| 136 Butylbenzylphthalate        | 149       | 12.991 | 12.991  | (0.943) | 36798    | 5.00000          | 5.185           |
| 138 Benzo (a) Anthracene        | 228       | 13.758 | 13.758  | (0.998) | 62384    | 5.00000          | 5.170           |
| 139 Chrysene                    | 228       | 13.820 | 13.831  | (1.003) | 59618    | 5.00000          | 4.830           |
| 140 3,3'-Dichlorobenzidine      | 252       | 13.799 | 13.799  | (1.002) | 22168    | 5.00000          | 4.870           |
| 141 bis(2-ethylhexyl) Phthalate | 149       | 14.110 | 14.110  | (1.024) | 51997    | 5.00000          | 5.319           |
| 142 Di-n-octylphthalate         | 149       | 15.157 | 15.167  | (1.100) | 76353    | 5.00000          | 4.886           |
| 144 Benzo (b) fluoranthene      | 252       | 15.572 | 15.582  | (0.963) | 45075    | 5.00000          | 4.473 (Q)       |
| 145 Benzo (k) fluoranthene      | 252       | 15.613 | 15.623  | (0.966) | 68403    | 5.00000          | 5.288 (q)       |
| 147 Benzo (e) pyrene            | 252       | 15.996 | 16.007  | (0.990) | 50295    | 5.00000          | 4.786           |
| 148 Benzo (a) pyrene            | 252       | 16.069 | 16.079  | (0.994) | 54694    | 5.00000          | 4.788           |
| 151 Indeno (1,2,3-cd) pyrene    | 276       | 17.789 | 17.800  | (1.101) | 41053    | 5.00000          | 4.443           |
| 152 Dibenzo (a,h) anthracene    | 278       | 17.841 | 17.841  | (1.104) | 49018    | 5.00000          | 4.749           |
| 153 Benzo (g,h,i) perylene      | 276       | 18.224 | 18.235  | (1.128) | 53428    | 5.00000          | 4.781           |

| Compounds                           | QUANT SIG |  |      |        |        |          | AMOUNTS          |                 |
|-------------------------------------|-----------|--|------|--------|--------|----------|------------------|-----------------|
|                                     | MASS      |  | RT   | EXP RT | REL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| -----                               | ----      |  | ---- | -----  | -----  | -----    | -----            | -----           |
| M 162 benzo b,k Fluoranthene Totals | 252       |  |      |        |        | 113478   | 5.00000          | 4.931 (A)       |

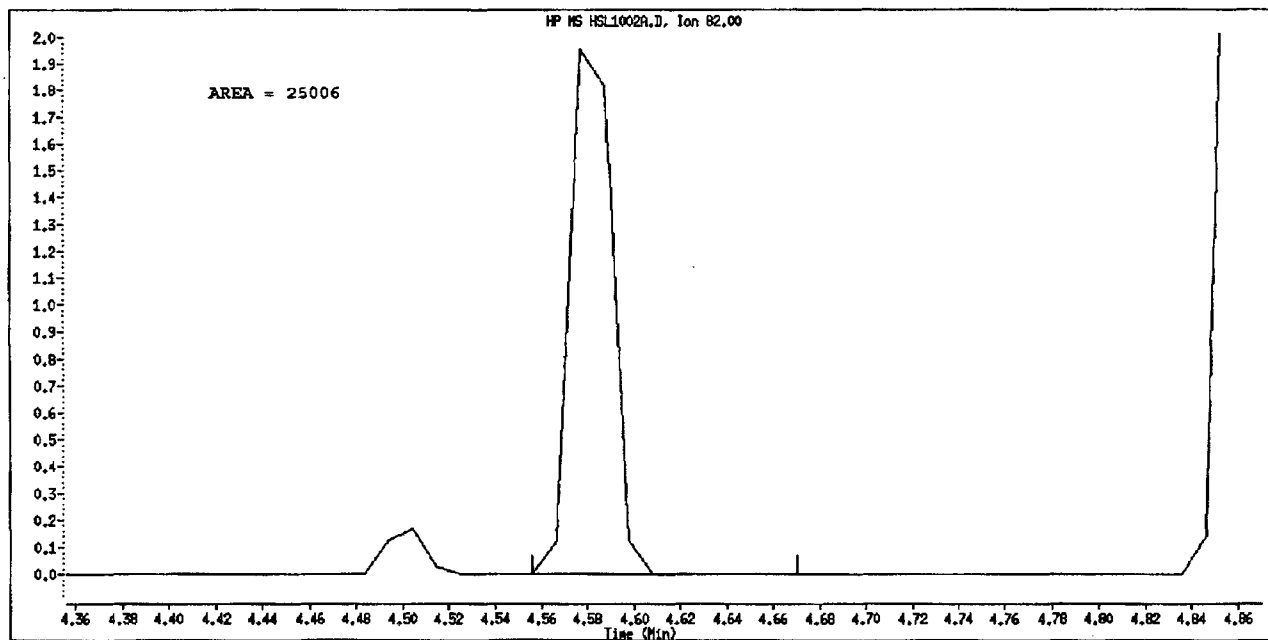
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002A.D  
Inj. Date and Time: 02-OCT-2010 12:27  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: Nitrobenzene-d5  
CAS #: 4165-60-0  
Report Date: 10/03/2010



Original Integration

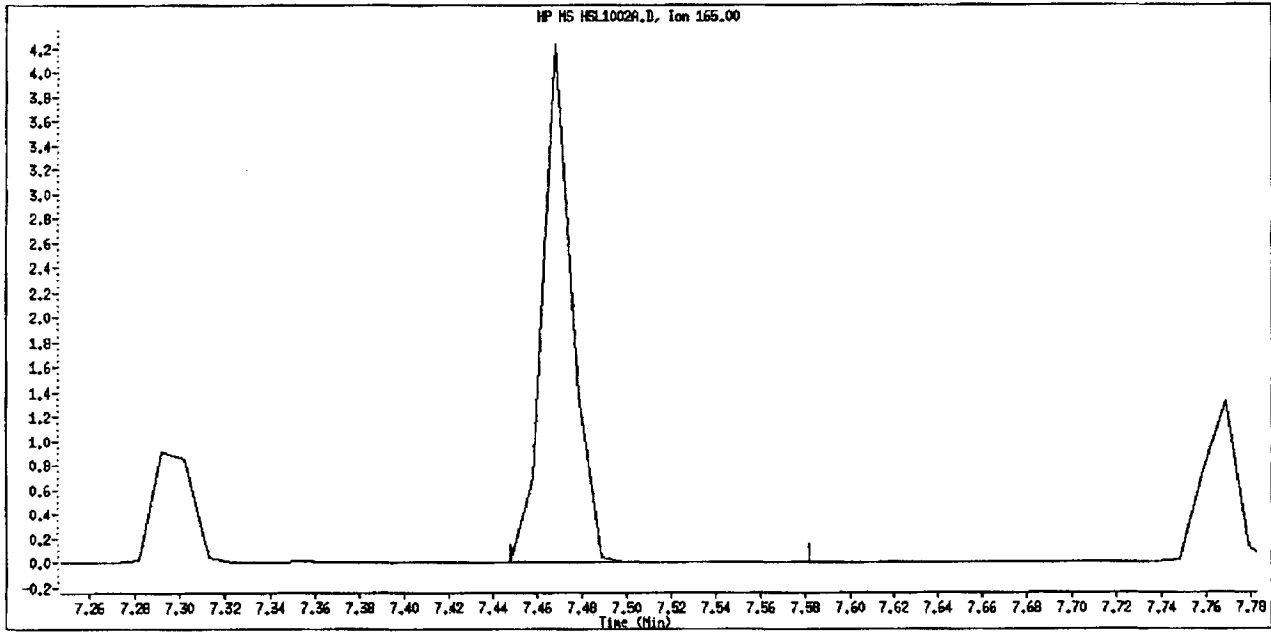


Manual Integration

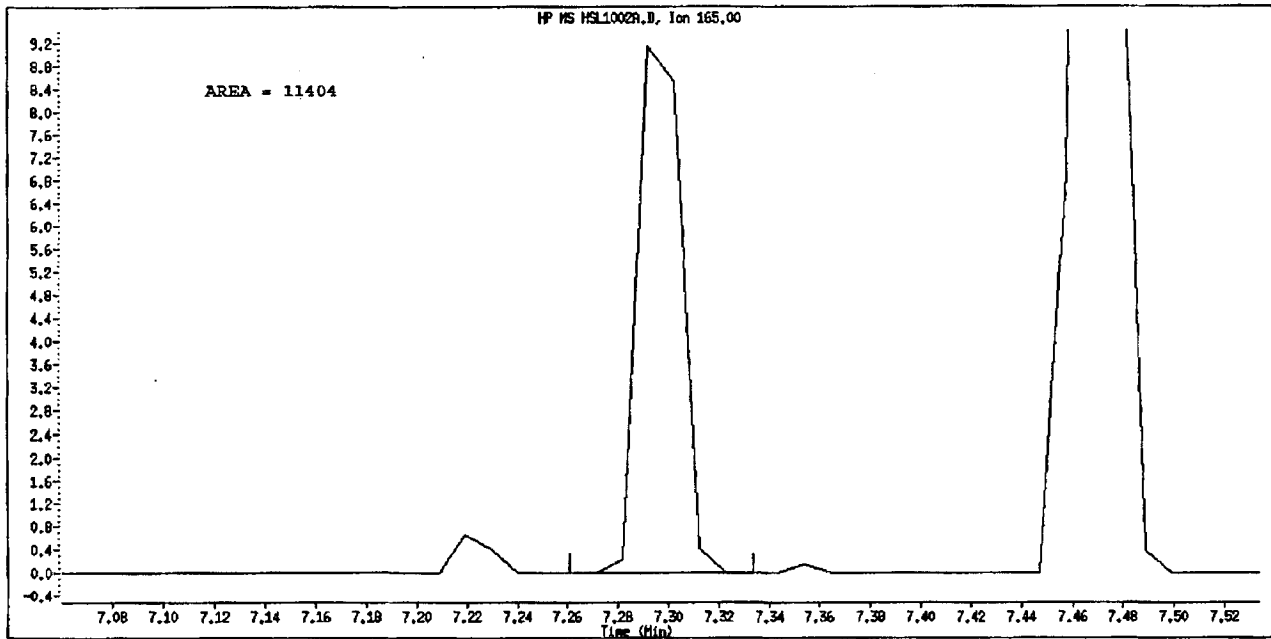
Manually Integrated By: truonk  
Manual Integration Reason: Peak Not Found



Data File Name: HSL1002A.D  
Inj. Date and Time: 02-OCT-2010 12:27  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: trungk  
Manual Integration Reason: Wrong Peak

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002A.D  
 Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 12:27  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 005 ug/ml CS-1;1;;1;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0307;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 1 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

| Compounds                       | QUANT SIG |                        | AMOUNTS |         |          |                  |                 |
|---------------------------------|-----------|------------------------|---------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT                     | EXP RT  | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 3.955                  | 3.955   | (1.000) | 141539   | 40.0000          | (Q)             |
| * 2 Naphthalene-d8              | 136       | 5.374                  | 5.374   | (1.000) | 605687   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164       | 7.468                  | 7.468   | (1.000) | 321839   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188       | 9.406                  | 9.405   | (1.000) | 496356   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240       | 13.779                 | 13.779  | (1.000) | 453007   | 40.0000          |                 |
| * 6 Perylene-d12                | 264       | 16.162                 | 16.162  | (1.000) | 445119   | 40.0000          |                 |
| \$ 7 2-Fluorophenol             | 112       | 2.742                  | 2.732   | (0.693) | 25566    | 5.00000          | 4.894           |
| \$ 8 Phenol-d5                  | 99        | 3.613                  | 3.613   | (0.914) | 30471    | 5.00000          | 4.587           |
| \$ 9 2-Chlorophenol-d4          | 132       | 3.758                  | 3.758   | (0.950) | 26144    | 5.00000          | 4.616           |
| \$ 10 1,2-Dichlorobenzene-d4    | 152       | 4.162                  | 4.162   | (1.052) | 16945    | 5.00000          | 4.793           |
| \$ 11 Nitrobenzene-d5           | 82        | Compound Not Detected. |         |         |          |                  |                 |
| \$ 12 2-Fluorobiphenyl          | 172       | 6.680                  | 6.680   | (0.895) | 51695    | 5.00000          | 5.015           |
| \$ 13 2,4,6-Tribromophenol      | 330       | 8.473                  | 8.473   | (1.135) | 6048     | 5.00000          | 4.760           |
| \$ 14 Terphenyl-d14             | 244       | 12.017                 | 12.017  | (0.872) | 44456    | 5.00000          | 5.032           |
| 15 N-Nitrosodimethylamine       | 74        | 1.716                  | 1.706   | (0.434) | 16436    | 5.00000          | 4.767 (q)       |
| 16 Pyridine                     | 79        | 1.737                  | 1.726   | (0.439) | 29567    | 5.00000          | 5.146           |
| 23 Aniline                      | 93        | 3.654                  | 3.654   | (0.924) | 39064    | 5.00000          | 4.689 (Q)       |
| 24 Phenol                       | 94        | 3.623                  | 3.623   | (0.916) | 36112    | 5.00000          | 5.111 (Q)       |
| 26 Bis(2-chloroethyl) ether     | 93        | 3.716                  | 3.716   | (0.940) | 26067    | 5.00000          | 4.856           |
| 27 2-Chlorophenol               | 128       | 3.768                  | 3.768   | (0.953) | 26910    | 5.00000          | 4.813           |
| 28 1,3-Dichlorobenzene          | 146       | 3.923                  | 3.923   | (0.992) | 29883    | 5.00000          | 4.837           |
| 29 1,4-Dichlorobenzene          | 146       | 3.975                  | 3.975   | (1.005) | 31337    | 5.00000          | 5.017           |
| 30 Benzyl Alcohol               | 108       | 4.120                  | 4.120   | (1.042) | 17983    | 5.00000          | 4.681           |
| 31 1,2-Dichlorobenzene          | 146       | 4.172                  | 4.172   | (1.055) | 28663    | 5.00000          | 4.842           |
| 32 2-Methylphenol               | 108       | 4.255                  | 4.255   | (1.076) | 24914    | 5.00000          | 4.770           |
| 33 2,2'-oxybis(1-Chloropropane) | 45        | 4.297                  | 4.297   | (1.086) | 40622    | 5.00000          | 4.077           |
| 34 4-Methylphenol               | 108       | 4.421                  | 4.421   | (1.118) | 26292    | 5.00000          | 4.723           |
| 36 Hexachloroethane             | 117       | 4.504                  | 4.504   | (1.139) | 10779    | 5.00000          | 4.891           |
| 37 N-Nitrosodipropylamine       | 70        | 4.442                  | 4.442   | (1.123) | 16719    | 5.00000          | 4.290           |
| 42 Nitrobenzene                 | 77        | 4.597                  | 4.597   | (0.855) | 24875    | 5.00000          | 4.659           |
| 44 Isophorone                   | 82        | 4.856                  | 4.856   | (0.904) | 48024    | 5.00000          | 4.744           |
| 45 2-Nitrophenol                | 139       | 4.960                  | 4.960   | (0.923) | 14088    | 5.00000          | 4.833           |
| 46 2,4-Dimethylphenol           | 107       | 5.012                  | 5.012   | (0.933) | 26089    | 5.00000          | 4.820           |

| Compounds                        | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|----------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                                  |                   |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis (2-chloroethoxy)methane   | 93                | 5.126  | 5.126  | (0.954) | 31152    | 5.00000          | 5.169           |
| 49 2,4-Dichlorophenol            | 162               | 5.229  | 5.229  | (0.973) | 19256    | 5.00000          | 4.834           |
| 50 Benzoic Acid                  | 122               | 5.084  | 5.115  | (0.946) | 12679    | 5.00000          | 4.202           |
| 51 1,2,4-Trichlorobenzene        | 180               | 5.322  | 5.322  | (0.990) | 22282    | 5.00000          | 5.160           |
| 52 Naphthalene                   | 128               | 5.395  | 5.395  | (1.004) | 83236    | 5.00000          | 4.937           |
| 54 4-Chloroaniline               | 127               | 5.488  | 5.488  | (1.021) | 30853    | 5.00000          | 4.652           |
| 57 Hexachlorobutadiene           | 225               | 5.613  | 5.613  | (1.044) | 10823    | 5.00000          | 5.267           |
| 60 4-Chloro-3-Methylphenol       | 107               | 6.069  | 6.069  | (1.129) | 22205    | 5.00000          | 4.844           |
| 63 2-Methylnaphthalene           | 142               | 6.203  | 6.203  | (1.154) | 51849    | 5.00000          | 5.040           |
| 66 Hexachlorocyclopentadiene     | 237               | 6.483  | 6.483  | (0.868) | 10813    | 5.00000          | 4.405           |
| 69 2,4,6-Trichlorophenol         | 196               | 6.576  | 6.576  | (0.881) | 12546    | 5.00000          | 5.149           |
| 70 2,4,5-Trichlorophenol         | 196               | 6.628  | 6.628  | (0.888) | 12400    | 5.00000          | 4.633           |
| 71 2-Chloronaphthalene           | 162               | 6.784  | 6.784  | (0.908) | 45713    | 5.00000          | 5.066           |
| 73 2-Nitroaniline                | 65                | 6.949  | 6.949  | (0.931) | 12703    | 5.00000          | 4.204           |
| 76 Dimethylphthalate             | 163               | 7.219  | 7.229  | (0.967) | 49639    | 5.00000          | 4.763           |
| 77 Acenaphthylene                | 152               | 7.281  | 7.281  | (0.975) | 75041    | 5.00000          | 4.757           |
| 79 2,6-Dinitrotoluene            | 165               | 7.468  | 7.302  | (1.000) | 39415    | 5.00000          | 16.89 (Q)       |
| 80 3-Nitroaniline                | 138               | 7.447  | 7.447  | (0.997) | 14226    | 5.00000          | 4.597 (Q)       |
| 81 Acenaphthene                  | 153               | 7.509  | 7.509  | (1.006) | 50639    | 5.00000          | 5.038           |
| 82 2,4-Dinitrophenol             | 184               | 7.571  | 7.571  | (1.014) | 4083     | 5.00000          | 5.740 (q)       |
| 83 Dibenzofuran                  | 168               | 7.696  | 7.706  | (1.031) | 63477    | 5.00000          | 4.780           |
| 84 4-Nitrophenol                 | 109               | 7.675  | 7.675  | (1.028) | 5114     | 5.00000          | 3.785 (Q)       |
| 86 2,4-Dinitrotoluene            | 165               | 7.768  | 7.768  | (1.040) | 13823    | 5.00000          | 4.422 (q)       |
| 91 Fluorene                      | 166               | 8.131  | 8.131  | (1.089) | 54136    | 5.00000          | 4.976           |
| 92 Diethylphthalate              | 149               | 8.100  | 8.100  | (1.085) | 49177    | 5.00000          | 4.514           |
| 93 4-Chlorophenyl-phenylether    | 204               | 8.152  | 8.152  | (1.092) | 22112    | 5.00000          | 4.930           |
| 94 4-Nitroaniline                | 138               | 8.214  | 8.214  | (1.100) | 13415    | 5.00000          | 4.435           |
| 97 4,6-Dinitro-2-methylphenol    | 198               | 8.276  | 8.276  | (0.880) | 5780     | 5.00000          | 8.076 (q)       |
| 98 N-Nitrosodiphenylamine        | 169               | 8.317  | 8.317  | (0.884) | 41998    | 5.86000          | 5.430           |
| 100 Azobenzene                   | 77                | 8.348  | 8.348  | (0.888) | 48101    | 5.00000          | 4.470           |
| 101 4-Bromophenyl-phenylether    | 248               | 8.794  | 8.794  | (0.935) | 11766    | 5.00000          | 4.905           |
| 108 Hexachlorobenzene            | 284               | 8.981  | 8.981  | (0.955) | 14244    | 5.00000          | 5.498           |
| 110 Pentachlorophenol            | 266               | 9.240  | 9.240  | (0.982) | 5849     | 5.00000          | 3.762           |
| 114 Phenanthrene                 | 178               | 9.437  | 9.437  | (1.003) | 80873    | 5.00000          | 5.224           |
| 115 Anthracene                   | 178               | 9.499  | 9.499  | (1.010) | 77577    | 5.00000          | 4.979           |
| 118 Carbazole                    | 167               | 9.768  | 9.768  | (1.039) | 70241    | 5.00000          | 4.847           |
| 120 Di-n-Butylphthalate          | 149               | 10.463 | 10.463 | (1.112) | 79722    | 5.00000          | 4.549           |
| 126 Fluoranthene                 | 202               | 11.302 | 11.302 | (1.202) | 64427    | 5.00000          | 4.624           |
| 127 Benzidine                    | 184               | 11.571 | 11.571 | (0.840) | 44267    | 5.00000          | 4.759           |
| 128 Pyrene                       | 202               | 11.665 | 11.665 | (0.847) | 71230    | 5.00000          | 5.029           |
| 134 3,3'-dimethylbenzidine       | 212               | 12.867 | 12.867 | (0.934) | 37074    | 5.00000          | 4.644           |
| 136 Butylbenzylphthalate         | 149               | 12.991 | 12.991 | (0.943) | 36798    | 5.00000          | 5.084           |
| 138 Benzo (a) Anthracene         | 228               | 13.758 | 13.758 | (0.998) | 62384    | 5.00000          | 5.220           |
| 139 Chrysene                     | 228               | 13.820 | 13.831 | (1.003) | 59618    | 5.00000          | 4.801           |
| 140 3,3'-Dichlorobenzidine       | 252               | 13.799 | 13.799 | (1.002) | 22168    | 5.00000          | 5.069           |
| 141 bis (2-ethylhexyl) Phthalate | 149               | 14.110 | 14.110 | (1.024) | 51997    | 5.00000          | 5.218           |
| 142 Di-n-octylphthalate          | 149               | 15.157 | 15.167 | (1.100) | 76353    | 5.00000          | 4.792           |
| 144 Benzo (b) fluoranthene       | 252               | 15.572 | 15.582 | (0.963) | 45075    | 5.00000          | 4.270 (Q)       |
| 145 Benzo (k) fluoranthene       | 252               | 15.613 | 15.623 | (0.966) | 68403    | 5.00000          | 5.546 (q)       |
| 147 Benzo (e) pyrene             | 252               | 15.996 | 16.007 | (0.990) | 50295    | 5.00000          | 4.807           |
| 148 Benzo (a) pyrene             | 252               | 16.069 | 16.079 | (0.994) | 54694    | 5.00000          | 4.761           |
| 151 Indeno (1,2,3-cd) pyrene     | 276               | 17.789 | 17.800 | (1.101) | 41053    | 5.00000          | 4.039           |
| 152 Dibenzo (a, h) anthracene    | 278               | 17.841 | 17.841 | (1.104) | 49018    | 5.00000          | 4.706           |
| 153 Benzo (g, h, i) perylene     | 276               | 18.224 | 18.235 | (1.128) | 53428    | 5.00000          | 4.784           |

| Compounds                           | QUANT SIG |  |    |        |        |          | AMOUNTS          |                 |
|-------------------------------------|-----------|--|----|--------|--------|----------|------------------|-----------------|
|                                     | MASS      |  | RT | EXP RT | REL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| M 162 benzo b,k Fluoranthene Totals | 252       |  |    |        |        | 113478   | 5.00000          | 4.958 (A)       |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002A.D  
 Lab Smp Id: HSL 005 ug/ml CS-1  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0307;0;8270F.M

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

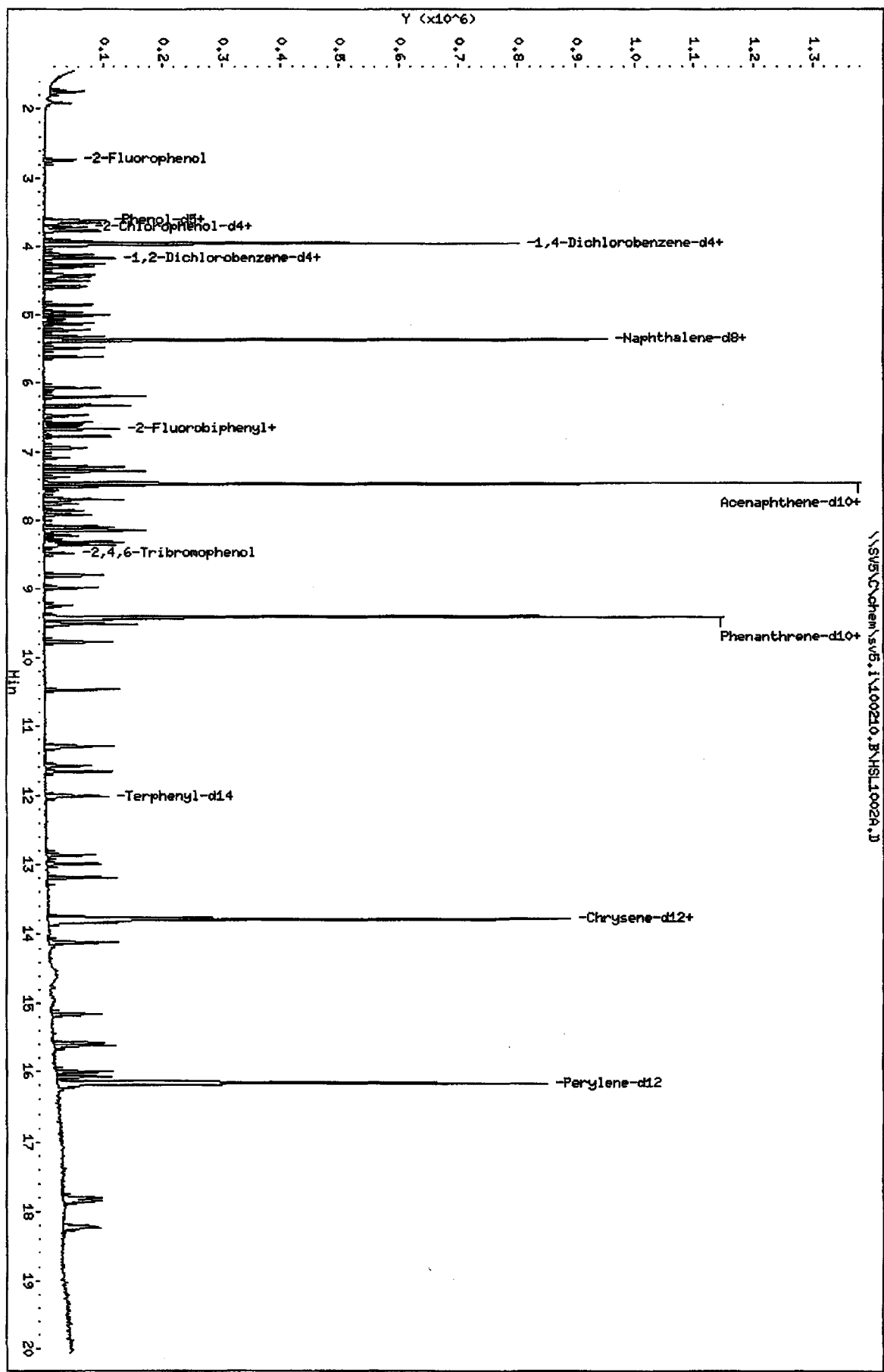
| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 141539 | 15.42 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 605687 | 14.17 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 321839 | 13.91 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 496356 | 7.27  |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 453007 | 3.94  |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 445119 | 5.41  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.96     | 3.46     | 4.46  | 3.96   | 0.00  |
| 2 Naphthalene-d8    | 5.37     | 4.87     | 5.87  | 5.37   | 0.00  |
| 3 Acenaphthene-d10  | 7.47     | 6.97     | 7.97  | 7.47   | 0.00  |
| 4 Phenanthrene-d10  | 9.41     | 8.91     | 9.91  | 9.41   | 0.00  |
| 5 Chrysene-d12      | 13.78    | 13.28    | 14.28 | 13.78  | 0.00  |
| 6 Perylene-d12      | 16.16    | 15.66    | 16.66 | 16.16  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SVB\Chem\svb.1\100210.B\HSL10024.D  
 Date: 02-OCT-2010 12:27  
 Client ID: 8270F.H  
 Sample Info: HSL\_005 ug/ml CS-4111111114  
 Column Phase:

Instrument: svb.1  
 Operator: KT  
 Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002B.D  
 Lab Smp Id: HSL 010 ug/ml CS-2 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 12:53  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 010 ug/ml CS-2;1;;2;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0308;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Dil bottle: 2 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

| Compounds                       | QUANT SIG | MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
|                                 |           |      |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      |           | 152  | 3.955  | 3.955  | (1.000) | 116839   | 40.0000          | (Q)             |
| * 2 Naphthalene-d8              |           | 136  | 5.364  | 5.374  | (1.000) | 493196   | 40.0000          |                 |
| * 3 Acenaphthene-d10            |           | 164  | 7.468  | 7.468  | (1.000) | 272639   | 40.0000          |                 |
| * 4 Phenanthrene-d10            |           | 188  | 9.406  | 9.405  | (1.000) | 428440   | 40.0000          |                 |
| * 5 Chrysene-d12                |           | 240  | 13.779 | 13.779 | (1.000) | 412260   | 40.0000          |                 |
| * 6 Perylene-d12                |           | 264  | 16.162 | 16.162 | (1.000) | 419005   | 40.0000          |                 |
| \$ 7 2-Fluorophenol             |           | 112  | 2.732  | 2.732  | (0.691) | 38100    | 10.0000          | 9.251           |
| \$ 8 Phenol-d5                  |           | 99   | 3.613  | 3.613  | (0.914) | 48878    | 10.0000          | 9.438           |
| \$ 9 2-Chlorophenol-d4          |           | 132  | 3.747  | 3.758  | (0.948) | 45430    | 10.0000          | 9.989           |
| \$ 10 1,2-Dichlorobenzene-d4    |           | 152  | 4.151  | 4.162  | (1.050) | 28658    | 10.0000          | 9.959           |
| \$ 11 Nitrobenzene-d5           |           | 82   | 4.576  | 4.576  | (0.853) | 42237    | 10.0000          | 10.11 (QM)      |
| \$ 12 2-Fluorobiphenyl          |           | 172  | 6.680  | 6.680  | (0.895) | 85886    | 10.0000          | 9.779           |
| \$ 13 2,4,6-Tribromophenol      |           | 330  | 8.473  | 8.473  | (1.135) | 11265    | 10.0000          | 9.508           |
| \$ 14 Terphenyl-d14             |           | 244  | 12.017 | 12.017 | (0.872) | 81026    | 10.0000          | 9.978           |
| 15 N-Nitrosodimethylamine       |           | 74   | 1.706  | 1.706  | (0.431) | 25783    | 10.0000          | 9.578 (q)       |
| 16 Pyridine                     |           | 79   | 1.737  | 1.726  | (0.439) | 40141    | 10.0000          | 8.917 (Q)       |
| 23 Aniline                      |           | 93   | 3.654  | 3.654  | (0.924) | 63074    | 10.0000          | 9.568 (q)       |
| 24 Phenol                       |           | 94   | 3.623  | 3.623  | (0.916) | 57313    | 10.0000          | 9.631 (Q)       |
| 26 Bis(2-chloroethyl) ether     |           | 93   | 3.716  | 3.716  | (0.940) | 40383    | 10.0000          | 9.677           |
| 27 2-Chlorophenol               |           | 128  | 3.768  | 3.768  | (0.953) | 45449    | 10.0000          | 9.950           |
| 28 1,3-Dichlorobenzene          |           | 146  | 3.913  | 3.923  | (0.990) | 49415    | 10.0000          | 9.932           |
| 29 1,4-Dichlorobenzene          |           | 146  | 3.975  | 3.975  | (1.005) | 52537    | 10.0000          | 10.10           |
| 30 Benzyl Alcohol               |           | 108  | 4.120  | 4.120  | (1.042) | 30277    | 10.0000          | 9.862           |
| 31 1,2-Dichlorobenzene          |           | 146  | 4.172  | 4.172  | (1.055) | 47666    | 10.0000          | 9.966           |
| 32 2-Methylphenol               |           | 108  | 4.255  | 4.255  | (1.076) | 40581    | 10.0000          | 9.714           |
| 33 2,2'-oxybis(1-Chloropropane) |           | 45   | 4.297  | 4.297  | (1.086) | 64869    | 10.0000          | 9.768           |
| 34 4-Methylphenol               |           | 108  | 4.421  | 4.421  | (1.118) | 43497    | 10.0000          | 9.803           |
| 36 Hexachloroethane             |           | 117  | 4.504  | 4.504  | (1.139) | 17770    | 10.0000          | 10.03           |
| 37 N-Nitrosodimethylamine       |           | 70   | 4.442  | 4.442  | (1.123) | 28335    | 10.0000          | 9.587           |
| 42 Nitrobenzene                 |           | 77   | 4.597  | 4.597  | (0.857) | 40198    | 10.0000          | 9.845           |
| 44 Isophorone                   |           | 82   | 4.856  | 4.856  | (0.905) | 76804    | 10.0000          | 9.782           |
| 45 2-Nitrophenol                |           | 139  | 4.960  | 4.960  | (0.925) | 23221    | 10.0000          | 9.585           |
| 46 2,4-Dimethylphenol           |           | 107  | 5.012  | 5.012  | (0.934) | 42128    | 10.0000          | 9.787           |

| Compounds                        | QUANT SIG |        | AMOUNTS |         |          |                  |                 |
|----------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
|                                  | MASS      | RT     | EXP RT  | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis (2-chloroethoxy)methane   | 93        | 5.126  | 5.126   | (0.956) | 46230    | 10.0000          | 9.636           |
| 49 2,4-Dichlorophenol            | 162       | 5.229  | 5.229   | (0.975) | 32450    | 10.0000          | 9.744           |
| 50 Benzoic Acid                  | 122       | 5.084  | 5.115   | (0.948) | 20056    | 10.0000          | 8.418           |
| 51 1,2,4-Trichlorobenzene        | 180       | 5.323  | 5.322   | (0.992) | 35544    | 10.0000          | 9.857           |
| 52 Naphthalene                   | 128       | 5.395  | 5.395   | (1.006) | 138665   | 10.0000          | 10.18           |
| 54 4-Chloroaniline               | 127       | 5.488  | 5.488   | (1.023) | 52444    | 10.0000          | 9.826           |
| 57 Hexachlorobutadiene           | 225       | 5.613  | 5.613   | (1.046) | 17030    | 10.0000          | 9.650           |
| 60 4-Chloro-3-Methylphenol       | 107       | 6.069  | 6.069   | (1.131) | 35592    | 10.0000          | 9.570           |
| 63 2-Methylnaphthalene           | 142       | 6.203  | 6.203   | (1.156) | 83922    | 10.0000          | 9.811           |
| 66 Hexachlorocyclopentadiene     | 237       | 6.483  | 6.483   | (0.868) | 18919    | 10.0000          | 9.300           |
| 69 2,4,6-Trichlorophenol         | 196       | 6.576  | 6.576   | (0.881) | 20325    | 10.0000          | 9.344           |
| 70 2,4,5-Trichlorophenol         | 196       | 6.618  | 6.628   | (0.886) | 22419    | 10.0000          | 9.567           |
| 71 2-Chloronaphthalene           | 162       | 6.773  | 6.784   | (0.907) | 74574    | 10.0000          | 9.719           |
| 73 2-Nitroaniline                | 65        | 6.950  | 6.949   | (0.931) | 21647    | 10.0000          | 9.308           |
| 76 Dimethylphthalate             | 163       | 7.219  | 7.229   | (0.967) | 85330    | 10.0000          | 9.659           |
| 77 Acenaphthylene                | 152       | 7.281  | 7.281   | (0.975) | 130392   | 10.0000          | 9.758           |
| 79 2,6-Dinitrotoluene            | 165       | 7.291  | 7.302   | (0.976) | 18661    | 10.0000          | 9.067 (QM)      |
| 80 3-Nitroaniline                | 138       | 7.447  | 7.447   | (0.997) | 23598    | 10.0000          | 9.186 (q)       |
| 81 Acenaphthene                  | 153       | 7.509  | 7.509   | (1.006) | 83474    | 10.0000          | 9.814           |
| 82 2,4-Dinitrophenol             | 184       | 7.571  | 7.572   | (1.014) | 7537     | 10.0000          | 10.11 (q)       |
| 83 Dibenzofuran                  | 168       | 7.696  | 7.706   | (1.031) | 110503   | 10.0000          | 9.789           |
| 84 4-Nitrophenol                 | 109       | 7.675  | 7.675   | (1.028) | 9643     | 10.0000          | 9.049 (Q)       |
| 86 2,4-Dinitrotoluene            | 165       | 7.768  | 7.768   | (1.040) | 24530    | 10.0000          | 9.080           |
| 91 Fluorene                      | 166       | 8.131  | 8.131   | (1.089) | 91225    | 10.0000          | 9.759           |
| 92 Diethylphthalate              | 149       | 8.100  | 8.100   | (1.085) | 88532    | 10.0000          | 9.788           |
| 93 4-Chlorophenyl-phenylether    | 204       | 8.152  | 8.152   | (1.092) | 38113    | 10.0000          | 9.807           |
| 94 4-Nitroaniline                | 138       | 8.214  | 8.214   | (1.100) | 23002    | 10.0000          | 9.033           |
| 97 4,6-Dinitro-2-methylphenol    | 198       | 8.276  | 8.276   | (0.880) | 11282    | 10.0000          | 11.10           |
| 98 N-Nitrosodiphenylamine        | 169       | 8.317  | 8.317   | (0.884) | 74860    | 11.7000          | 11.53           |
| 100 Azobenzene                   | 77        | 8.349  | 8.348   | (0.888) | 82437    | 10.0000          | 9.784           |
| 101 4-Bromophenyl-phenylether    | 248       | 8.794  | 8.794   | (0.935) | 19823    | 10.0000          | 9.478           |
| 108 Hexachlorobenzene            | 284       | 8.981  | 8.981   | (0.955) | 23622    | 10.0000          | 10.11           |
| 110 Pentachlorophenol            | 266       | 9.240  | 9.240   | (0.982) | 10551    | 10.0000          | 10.90           |
| 114 Phenanthrene                 | 178       | 9.437  | 9.437   | (1.003) | 134966   | 10.0000          | 9.995           |
| 115 Anthracene                   | 178       | 9.499  | 9.499   | (1.010) | 130416   | 10.0000          | 9.667           |
| 118 Carbazole                    | 167       | 9.768  | 9.768   | (1.039) | 120549   | 10.0000          | 9.782           |
| 120 Di-n-Butylphthalate          | 149       | 10.463 | 10.463  | (1.112) | 141693   | 10.0000          | 9.555           |
| 126 Fluoranthene                 | 202       | 11.302 | 11.302  | (1.202) | 115262   | 10.0000          | 9.526           |
| 127 Benzidine                    | 184       | 11.571 | 11.571  | (0.840) | 78774    | 10.0000          | 9.428           |
| 128 Pyrene                       | 202       | 11.654 | 11.665  | (0.846) | 127577   | 10.0000          | 9.901           |
| 134 3,3'-dimethylbenzidine       | 212       | 12.867 | 12.867  | (0.934) | 66361    | 10.0000          | 8.997           |
| 136 Butylbenzylphthalate         | 149       | 12.991 | 12.991  | (0.943) | 62032    | 10.0000          | 9.605           |
| 138 Benzo (a) Anthracene         | 228       | 13.748 | 13.758  | (0.998) | 102788   | 10.0000          | 9.360           |
| 139 Chrysene                     | 228       | 13.820 | 13.831  | (1.003) | 113552   | 10.0000          | 10.11           |
| 140 3,3'-Dichlorobenzidine       | 252       | 13.799 | 13.799  | (1.002) | 38850    | 10.0000          | 9.379           |
| 141 bis (2-ethylhexyl) Phthalate | 149       | 14.110 | 14.110  | (1.024) | 83377    | 10.0000          | 9.372           |
| 142 Di-n-octylphthalate          | 149       | 15.157 | 15.167  | (1.100) | 126961   | 10.0000          | 8.928           |
| 144 Benzo (b) fluoranthene       | 252       | 15.572 | 15.582  | (0.963) | 84929    | 10.0000          | 8.954 (Q)       |
| 145 Benzo (k) fluoranthene       | 252       | 15.613 | 15.623  | (0.966) | 122065   | 10.0000          | 10.02 (q)       |
| 147 Benzo (e) pyrene             | 252       | 15.996 | 16.007  | (0.990) | 97140    | 10.0000          | 9.821           |
| 148 Benzo (a) pyrene             | 252       | 16.069 | 16.079  | (0.994) | 102327   | 10.0000          | 9.516           |
| 151 Indeno (1,2,3-cd) pyrene     | 276       | 17.789 | 17.800  | (1.101) | 76748    | 10.0000          | 8.824           |
| 152 Dibenzo (a, h) anthracene    | 278       | 17.841 | 17.841  | (1.104) | 88393    | 10.0000          | 9.097           |
| 153 Benzo (g, h, i) perylene     | 276       | 18.224 | 18.235  | (1.128) | 103135   | 10.0000          | 9.804           |

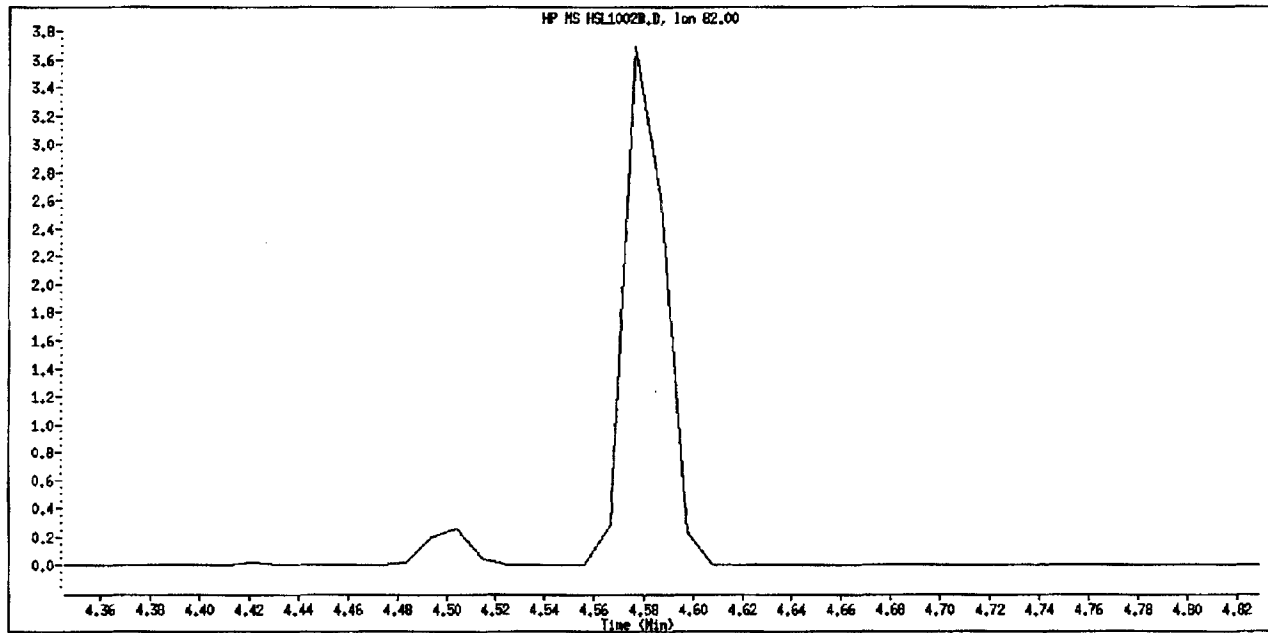


| Compounds                           | QUANT SIG<br>MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS          |                 |
|-------------------------------------|-------------------|----|--------|--------|----------|------------------|-----------------|
|                                     |                   |    |        |        |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| M 162 benzo b,k Fluoranthene Totals | 252               |    |        |        | 206994   | 10.0000          | 9.556 (A)       |

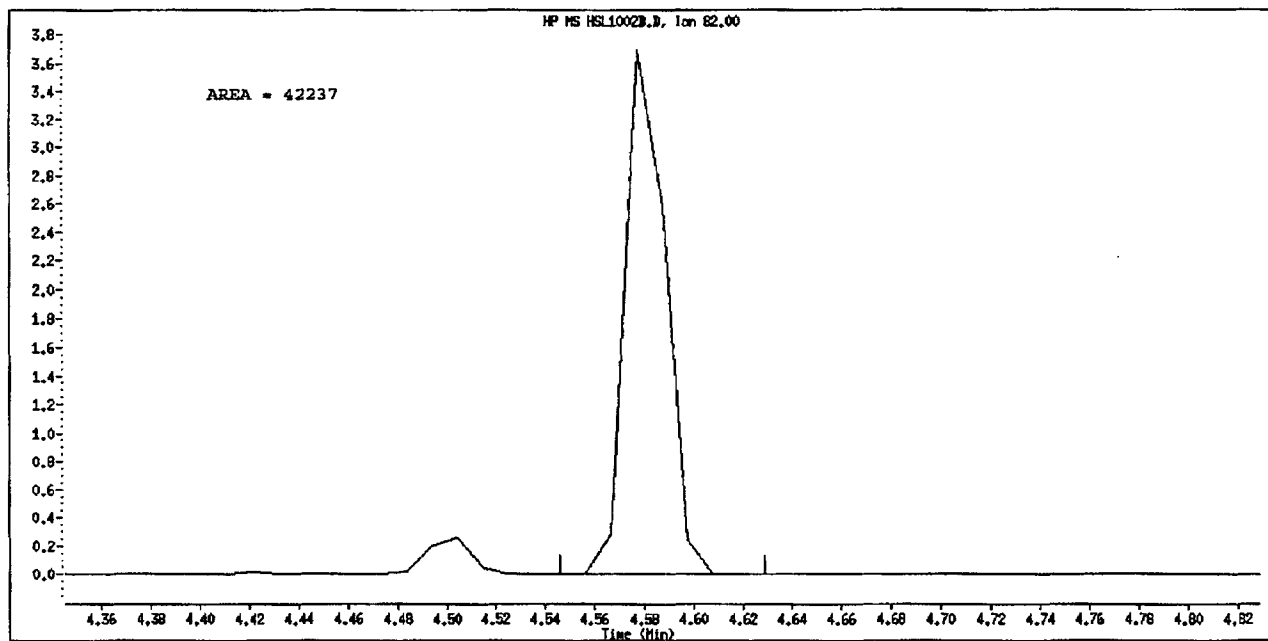
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002B.D  
Inj. Date and Time: 02-OCT-2010 12:53  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Nitrobenzene-d5  
CAS #: 4165-60-0  
Report Date: 10/03/2010



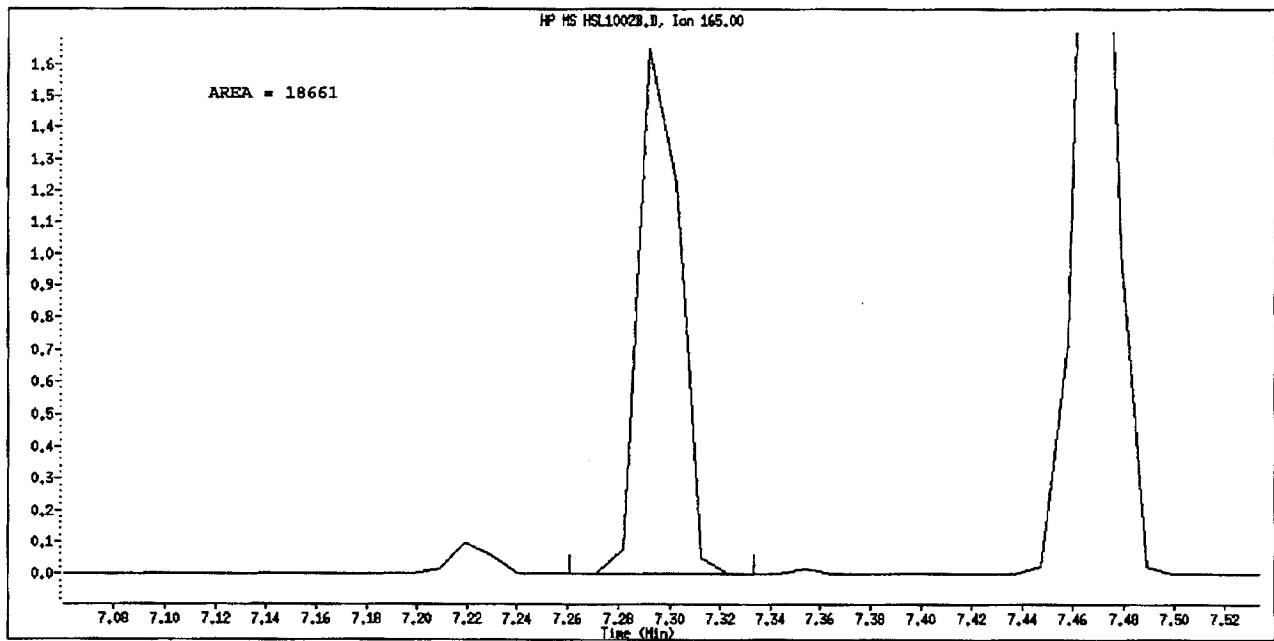
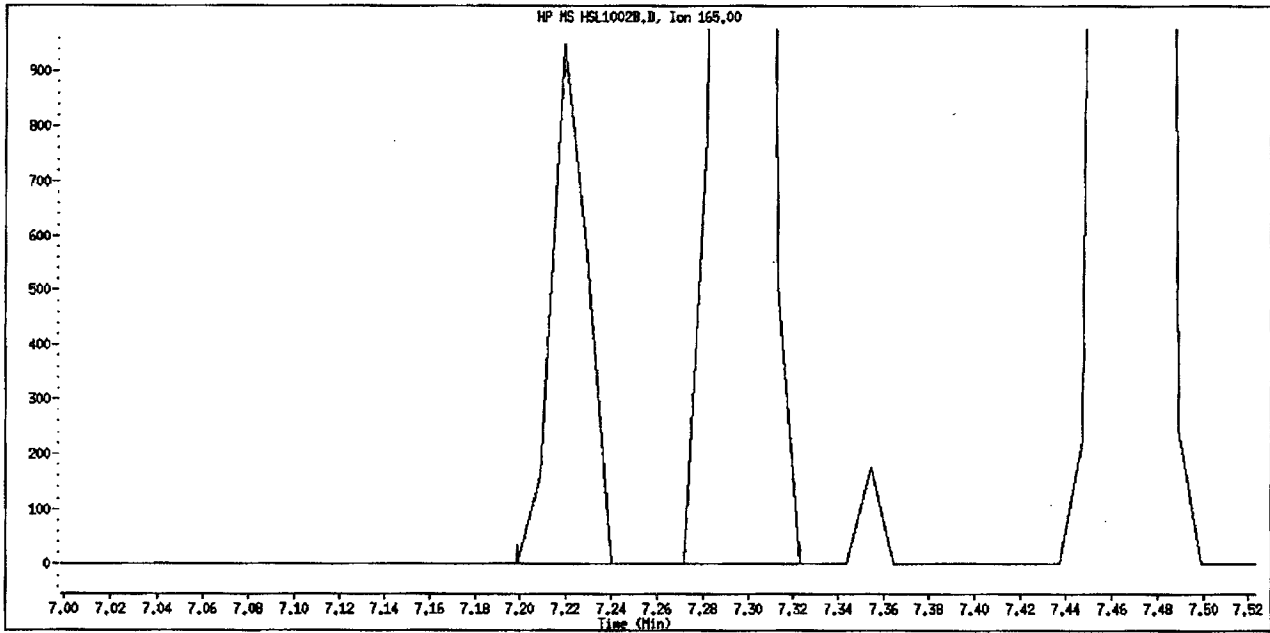
Original Integration



Manual Integration

Manually Integrated By: truonk  
Manual Integration Reason: Peak Not Found

Data File Name: HSL1002B.D  
Inj. Date and Time: 02-OCT-2010 12:53  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 10/03/2010



Manually Integrated By: trungk  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002B.D  
 Lab Smp Id: HSL\_010 ug/ml CS-2 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 12:53  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_010 ug/ml CS-2;1;;2;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0308;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 2 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

| Compounds                       | QUANT SIG<br>MASS | RT                     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |  |
|---------------------------------|-------------------|------------------------|--------|---------|----------|------------------|-----------------|--|
|                                 |                   |                        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |  |
| * 1 1,4-Dichlorobenzene-d4      | 152               | 3.955                  | 3.955  | (1.000) | 116839   | 40.0000          | (Q)             |  |
| * 2 Naphthalene-d8              | 136               | 5.364                  | 5.374  | (1.000) | 493196   | 40.0000          |                 |  |
| * 3 Acenaphthene-d10            | 164               | 7.468                  | 7.468  | (1.000) | 272639   | 40.0000          |                 |  |
| * 4 Phenanthrene-d10            | 188               | 9.406                  | 9.405  | (1.000) | 428440   | 40.0000          |                 |  |
| * 5 Chrysene-d12                | 240               | 13.779                 | 13.779 | (1.000) | 412260   | 40.0000          |                 |  |
| * 6 Perylene-d12                | 264               | 16.162                 | 16.162 | (1.000) | 419005   | 40.0000          |                 |  |
| \$ 7 2-Fluorophenol             | 112               | 2.732                  | 2.732  | (0.691) | 38100    | 10.0000          | 8.835           |  |
| \$ 8 Phenol-d5                  | 99                | 3.613                  | 3.613  | (0.914) | 48878    | 10.0000          | 8.913           |  |
| \$ 9 2-Chlorophenol-d4          | 132               | 3.747                  | 3.758  | (0.948) | 45430    | 10.0000          | 9.716           |  |
| \$ 10 1,2-Dichlorobenzene-d4    | 152               | 4.151                  | 4.162  | (1.050) | 28658    | 10.0000          | 9.820           |  |
| \$ 11 Nitrobenzene-d5           | 82                | Compound Not Detected. |        |         |          |                  |                 |  |
| \$ 12 2-Fluorobiphenyl          | 172               | 6.680                  | 6.680  | (0.895) | 85886    | 10.0000          | 9.835           |  |
| \$ 13 2,4,6-Tribromophenol      | 330               | 8.473                  | 8.473  | (1.135) | 11265    | 10.0000          | 10.46           |  |
| \$ 14 Terphenyl-d14             | 244               | 12.017                 | 12.017 | (0.872) | 81026    | 10.0000          | 10.08           |  |
| 15 N-Nitrosodimethylamine       | 74                | 1.706                  | 1.706  | (0.431) | 25783    | 10.0000          | 9.059           |  |
| 16 Pyridine                     | 79                | 1.737                  | 1.726  | (0.439) | 40141    | 10.0000          | 8.464           |  |
| 23 Aniline                      | 93                | 3.654                  | 3.654  | (0.924) | 63074    | 10.0000          | 9.172 (q)       |  |
| 24 Phenol                       | 94                | 3.623                  | 3.623  | (0.916) | 57313    | 10.0000          | 9.827 (Q)       |  |
| 26 Bis(2-chloroethyl)ether      | 93                | 3.716                  | 3.716  | (0.940) | 40383    | 10.0000          | 9.114           |  |
| 27 2-Chlorophenol               | 128               | 3.768                  | 3.768  | (0.953) | 45449    | 10.0000          | 9.848           |  |
| 28 1,3-Dichlorobenzene          | 146               | 3.913                  | 3.923  | (0.990) | 49415    | 10.0000          | 9.689           |  |
| 29 1,4-Dichlorobenzene          | 146               | 3.975                  | 3.975  | (1.005) | 52537    | 10.0000          | 10.19           |  |
| 30 Benzyl Alcohol               | 108               | 4.120                  | 4.120  | (1.042) | 30277    | 10.0000          | 9.547           |  |
| 31 1,2-Dichlorobenzene          | 146               | 4.172                  | 4.172  | (1.055) | 47666    | 10.0000          | 9.755           |  |
| 32 2-Methylphenol               | 108               | 4.255                  | 4.255  | (1.076) | 40581    | 10.0000          | 9.413           |  |
| 33 2,2'-oxybis(1-Chloropropane) | 45                | 4.297                  | 4.297  | (1.086) | 64869    | 10.0000          | 7.888           |  |
| 34 4-Methylphenol               | 108               | 4.421                  | 4.421  | (1.118) | 43497    | 10.0000          | 9.466           |  |
| 36 Hexachloroethane             | 117               | 4.504                  | 4.504  | (1.139) | 17770    | 10.0000          | 9.768           |  |
| 37 N-Nitrosodipropylamine       | 70                | 4.442                  | 4.442  | (1.123) | 28335    | 10.0000          | 8.809           |  |
| 42 Nitrobenzene                 | 77                | 4.597                  | 4.597  | (0.857) | 40198    | 10.0000          | 9.246           |  |
| 44 Isophorone                   | 82                | 4.856                  | 4.856  | (0.905) | 76804    | 10.0000          | 9.318           |  |
| 45 2-Nitrophenol                | 139               | 4.960                  | 4.960  | (0.925) | 23221    | 10.0000          | 9.784           |  |
| 46 2,4-Dimethylphenol           | 107               | 5.012                  | 5.012  | (0.934) | 42128    | 10.0000          | 9.559           |  |

10-3-10

| Compounds                      | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|--------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                                |                   |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane  | 93                | 5.126  | 5.126  | (0.956) | 46230    | 10.0000          | 9.421           |
| 49 2,4-Dichlorophenol          | 162               | 5.229  | 5.229  | (0.975) | 32450    | 10.0000          | 10.00           |
| 50 Benzoic Acid                | 122               | 5.084  | 5.115  | (0.948) | 20056    | 10.0000          | 8.164           |
| 51 1,2,4-Trichlorobenzene      | 180               | 5.323  | 5.322  | (0.992) | 35544    | 10.0000          | 10.11           |
| 52 Naphthalene                 | 128               | 5.395  | 5.395  | (1.006) | 138665   | 10.0000          | 10.10           |
| 54 4-Chloroaniline             | 127               | 5.488  | 5.488  | (1.023) | 52444    | 10.0000          | 9.711           |
| 57 Hexachlorobutadiene         | 225               | 5.613  | 5.613  | (1.046) | 17030    | 10.0000          | 10.18           |
| 60 4-Chloro-3-Methylphenol     | 107               | 6.069  | 6.069  | (1.131) | 35592    | 10.0000          | 9.536           |
| 63 2-Methylnaphthalene         | 142               | 6.203  | 6.203  | (1.156) | 83922    | 10.0000          | 10.02           |
| 66 Hexachlorocyclopentadiene   | 237               | 6.483  | 6.483  | (0.868) | 18919    | 10.0000          | 9.098           |
| 69 2,4,6-Trichlorophenol       | 196               | 6.576  | 6.576  | (0.881) | 20325    | 10.0000          | 9.847           |
| 70 2,4,5-Trichlorophenol       | 196               | 6.618  | 6.628  | (0.886) | 22419    | 10.0000          | 9.889           |
| 71 2-Chloronaphthalene         | 162               | 6.773  | 6.784  | (0.907) | 74574    | 10.0000          | 9.756           |
| 73 2-Nitroaniline              | 65                | 6.950  | 6.949  | (0.931) | 21647    | 10.0000          | 8.456           |
| 76 Dimethylphthalate           | 163               | 7.219  | 7.229  | (0.967) | 85330    | 10.0000          | 9.665           |
| 77 Acenaphthylene              | 152               | 7.281  | 7.281  | (0.975) | 130392   | 10.0000          | 9.758           |
| 79 2,6-Dinitrotoluene          | 165               | 7.219  | 7.302  | (0.967) | 19698    | 10.0000          | 9.963 (Q)       |
| 80 3-Nitroaniline              | 138               | 7.447  | 7.447  | (0.997) | 23598    | 10.0000          | 9.002 (q)       |
| 81 Acenaphthene                | 153               | 7.509  | 7.509  | (1.006) | 83474    | 10.0000          | 9.804           |
| 82 2,4-Dinitrophenol           | 184               | 7.571  | 7.571  | (1.014) | 7537     | 10.0000          | 9.147 (q)       |
| 83 Dibenzofuran                | 168               | 7.696  | 7.706  | (1.031) | 110503   | 10.0000          | 9.824           |
| 84 4-Nitrophenol               | 109               | 7.675  | 7.675  | (1.028) | 9643     | 10.0000          | 8.425 (Q)       |
| 86 2,4-Dinitrotoluene          | 165               | 7.768  | 7.768  | (1.040) | 24530    | 10.0000          | 9.262           |
| 91 Fluorene                    | 166               | 8.131  | 8.131  | (1.089) | 91225    | 10.0000          | 9.898           |
| 92 Diethylphthalate            | 149               | 8.100  | 8.100  | (1.085) | 88532    | 10.0000          | 9.594           |
| 93 4-Chlorophenyl-phenylether  | 204               | 8.152  | 8.152  | (1.092) | 38113    | 10.0000          | 10.03           |
| 94 4-Nitroaniline              | 138               | 8.214  | 8.214  | (1.100) | 23002    | 10.0000          | 8.977           |
| 97 4,6-Dinitro-2-methylphenol  | 198               | 8.276  | 8.276  | (0.880) | 11282    | 10.0000          | 11.76           |
| 98 N-Nitrosodiphenylamine      | 169               | 8.317  | 8.317  | (0.884) | 74860    | 11.7000          | 11.21           |
| 100 Azobenzene                 | 77                | 8.349  | 8.348  | (0.888) | 82437    | 10.0000          | 8.875           |
| 101 4-Bromophenyl-phenylether  | 248               | 8.794  | 8.794  | (0.935) | 19823    | 10.0000          | 9.575           |
| 108 Hexachlorobenzene          | 284               | 8.981  | 8.981  | (0.955) | 23622    | 10.0000          | 10.56           |
| 110 Pentachlorophenol          | 266               | 9.240  | 9.240  | (0.982) | 10551    | 10.0000          | 7.861           |
| 114 Phenanthrene               | 178               | 9.437  | 9.437  | (1.003) | 134966   | 10.0000          | 10.10           |
| 115 Anthracene                 | 178               | 9.499  | 9.499  | (1.010) | 130416   | 10.0000          | 9.697           |
| 118 Carbazole                  | 167               | 9.768  | 9.768  | (1.039) | 120549   | 10.0000          | 9.637           |
| 120 Di-n-Butylphthalate        | 149               | 10.463 | 10.463 | (1.112) | 141693   | 10.0000          | 9.367           |
| 126 Fluoranthene               | 202               | 11.302 | 11.302 | (1.202) | 115262   | 10.0000          | 9.583           |
| 127 Benzidine                  | 184               | 11.571 | 11.571 | (0.840) | 78774    | 10.0000          | 9.305           |
| 128 Pyrene                     | 202               | 11.654 | 11.665 | (0.846) | 127577   | 10.0000          | 9.897           |
| 134 3,3'-dimethylbenzidine     | 212               | 12.867 | 12.867 | (0.934) | 66361    | 10.0000          | 9.134           |
| 136 Butylbenzylphthalate       | 149               | 12.991 | 12.991 | (0.943) | 62032    | 10.0000          | 9.418           |
| 138 Benzo (a) Anthracene       | 228               | 13.748 | 13.758 | (0.998) | 102788   | 10.0000          | 9.450           |
| 139 Chrysene                   | 228               | 13.820 | 13.831 | (1.003) | 113552   | 10.0000          | 10.05           |
| 140 3,3'-Dichlorobenzidine     | 252               | 13.799 | 13.799 | (1.002) | 38850    | 10.0000          | 9.762           |
| 141 bis(2-ethylhexyl)Phthalate | 149               | 14.110 | 14.110 | (1.024) | 83377    | 10.0000          | 9.194           |
| 142 Di-n-octylphthalate        | 149               | 15.157 | 15.167 | (1.100) | 126961   | 10.0000          | 8.756           |
| 144 Benzo (b) fluoranthene     | 252               | 15.572 | 15.582 | (0.963) | 84929    | 10.0000          | 8.548 (Q)       |
| 145 Benzo (k) fluoranthene     | 252               | 15.613 | 15.623 | (0.966) | 122065   | 10.0000          | 10.51 (Q)       |
| 147 Benzo (e) pyrene           | 252               | 15.996 | 16.007 | (0.990) | 97140    | 10.0000          | 9.863           |
| 148 Benzo (a) pyrene           | 252               | 16.069 | 16.079 | (0.994) | 102327   | 10.0000          | 9.463           |
| 151 Indeno (1,2,3-cd) pyrene   | 276               | 17.789 | 17.800 | (1.101) | 76748    | 10.0000          | 8.022           |
| 152 Dibenzo (a, h) anthracene  | 278               | 17.841 | 17.841 | (1.104) | 88393    | 10.0000          | 9.016           |
| 153 Benzo (g, h, i) perylene   | 276               | 18.224 | 18.235 | (1.128) | 103135   | 10.0000          | 9.811           |

| Compounds                           | QUANT SIG<br>MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS          |                 |
|-------------------------------------|-------------------|----|--------|--------|----------|------------------|-----------------|
|                                     |                   |    |        |        |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| M 162 benzo b,k Fluoranthene Totals | 252               |    |        |        | 206994   | 10.0000          | 9.607 (A)       |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002B.D  
 Lab Smp Id: HSL\_010 ug/ml CS-2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0308;0;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

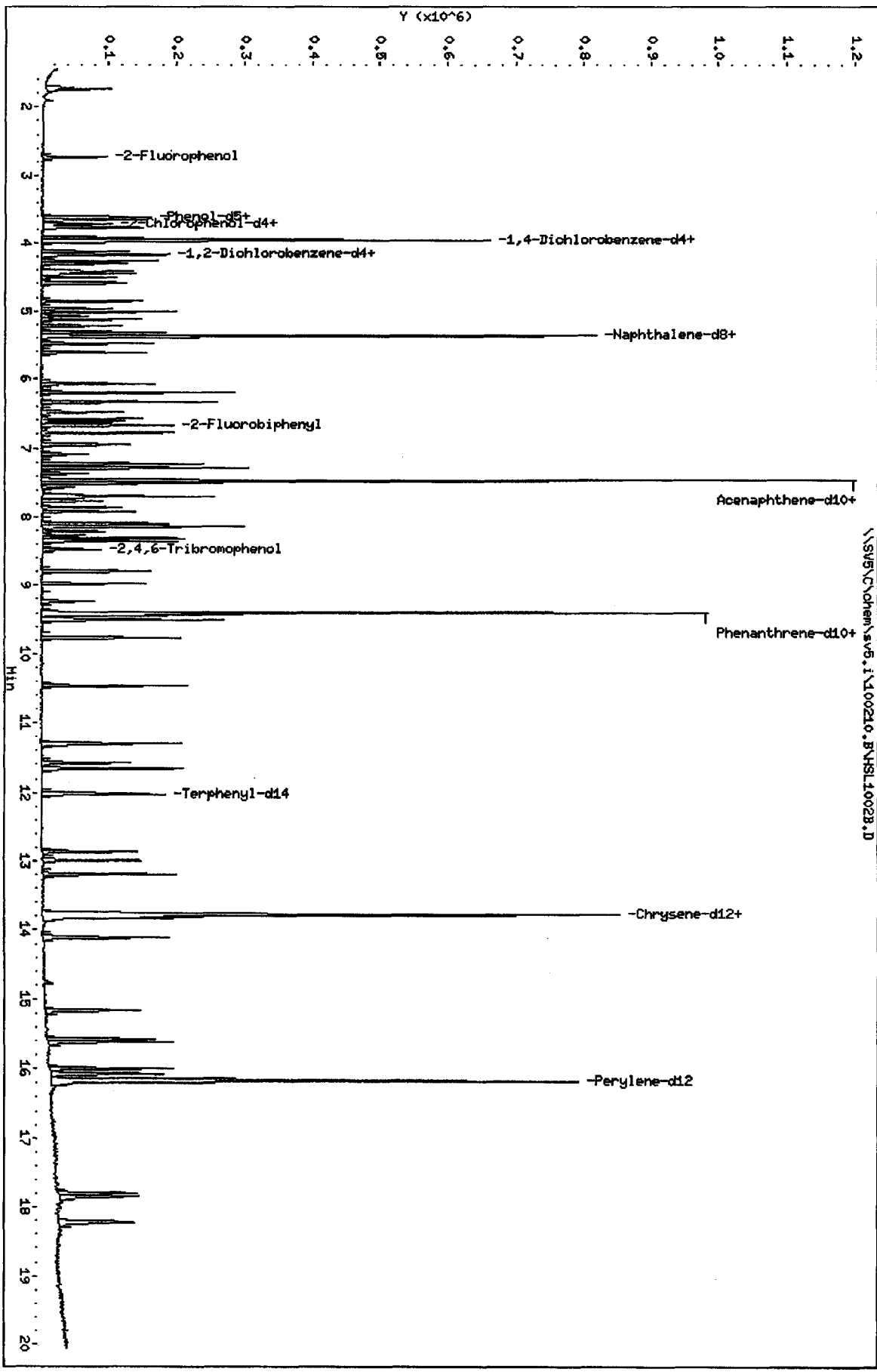
| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 116839 | -4.72 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 493196 | -7.03 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 272639 | -3.50 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 428440 | -7.41 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 412260 | -5.41 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 419005 | -0.78 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.96     | 3.46     | 4.46  | 3.96   | 0.00  |
| 2 Naphthalene-d8    | 5.37     | 4.87     | 5.87  | 5.36   | -0.19 |
| 3 Acenaphthene-d10  | 7.47     | 6.97     | 7.97  | 7.47   | 0.00  |
| 4 Phenanthrene-d10  | 9.41     | 8.91     | 9.91  | 9.41   | 0.00  |
| 5 Chrysene-d12      | 13.78    | 13.28    | 14.28 | 13.78  | 0.00  |
| 6 Perylene-d12      | 16.16    | 15.66    | 16.66 | 16.16  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SVS\Chem\sv5.1\100210.B\HSL1002B.D  
Date: 02-OCT-2010 12:53  
Client ID: 8270F.M  
Sample Info: HSL\_010 ug/ml CS-21112114  
Column phase:

Instrument: sv5.1  
Operator: KT  
Column diameter: 2.00





TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002C.D  
 Lab Smp Id: HSL 020 ug/ml CS-3 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 13:18  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 020 ug/ml CS-3;1;;3;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0309;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 3 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

| Compounds                       | QUANT | SIG | MASS   | RT     | EXP RT  | REL RT | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-------|-----|--------|--------|---------|--------|----------|------------------|-----------------|
|                                 |       |     |        |        |         |        |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152   |     | 3.954  | 3.955  | (1.000) | 145926 | 40.0000  |                  | (Q)             |
| * 2 Naphthalene-d8              | 136   |     | 5.364  | 5.374  | (1.000) | 625682 | 40.0000  |                  |                 |
| * 3 Acenaphthene-d10            | 164   |     | 7.467  | 7.468  | (1.000) | 328608 | 40.0000  |                  |                 |
| * 4 Phenanthrene-d10            | 188   |     | 9.405  | 9.405  | (1.000) | 525834 | 40.0000  |                  |                 |
| * 5 Chrysene-d12                | 240   |     | 13.779 | 13.779 | (1.000) | 590727 | 40.0000  |                  |                 |
| * 6 Perylene-d12                | 264   |     | 16.162 | 16.162 | (1.000) | 619266 | 40.0000  |                  |                 |
| \$ 7 2-Fluorophenol             | 112   |     | 2.732  | 2.732  | (0.691) | 100961 | 20.0000  | 19.63            |                 |
| \$ 8 Phenol-d5                  | 99    |     | 3.612  | 3.613  | (0.914) | 127066 | 20.0000  | 19.64            |                 |
| \$ 9 2-Chlorophenol-d4          | 132   |     | 3.747  | 3.758  | (0.948) | 112302 | 20.0000  | 19.77            |                 |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 4.162  | 4.162  | (1.052) | 72837  | 20.0000  | 20.27            | (q)             |
| \$ 11 Nitrobenzene-d5           | 82    |     | 4.576  | 4.576  | (0.853) | 103440 | 20.0000  | 19.52            |                 |
| \$ 12 2-Fluorobiphenyl          | 172   |     | 6.680  | 6.680  | (0.895) | 209764 | 20.0000  | 19.82            |                 |
| \$ 13 2,4,6-Tribromophenol      | 330   |     | 8.473  | 8.473  | (1.135) | 28698  | 20.0000  | 20.10            |                 |
| \$ 14 Terphenyl-d14             | 244   |     | 12.017 | 12.017 | (0.872) | 218324 | 20.0000  | 18.76            |                 |
| 15 N-Nitrosodimethylamine       | 74    |     | 1.706  | 1.706  | (0.431) | 66431  | 20.0000  | 19.76            | (q)             |
| 16 Pyridine                     | 79    |     | 1.726  | 1.726  | (0.437) | 116339 | 20.0000  | 20.69            | (Q)             |
| 23 Aniline                      | 93    |     | 3.654  | 3.654  | (0.924) | 160510 | 20.0000  | 19.50            |                 |
| 24 Phenol                       | 94    |     | 3.623  | 3.623  | (0.916) | 147994 | 20.0000  | 19.91            |                 |
| 26 Bis(2-chloroethyl) ether     | 93    |     | 3.716  | 3.716  | (0.940) | 101777 | 20.0000  | 19.53            |                 |
| 27 2-Chlorophenol               | 128   |     | 3.768  | 3.768  | (0.953) | 114481 | 20.0000  | 20.07            |                 |
| 28 1,3-Dichlorobenzene          | 146   |     | 3.913  | 3.923  | (0.990) | 122398 | 20.0000  | 19.70            |                 |
| 29 1,4-Dichlorobenzene          | 146   |     | 3.975  | 3.975  | (1.005) | 126965 | 20.0000  | 19.54            |                 |
| 30 Benzyl Alcohol               | 108   |     | 4.120  | 4.120  | (1.042) | 72366  | 20.0000  | 18.87            |                 |
| 31 1,2-Dichlorobenzene          | 146   |     | 4.172  | 4.172  | (1.055) | 117073 | 20.0000  | 19.60            |                 |
| 32 2-Methylphenol               | 108   |     | 4.255  | 4.255  | (1.076) | 101499 | 20.0000  | 19.45            |                 |
| 33 2,2'-oxybis(1-Chloropropane) | 45    |     | 4.296  | 4.297  | (1.086) | 166596 | 20.0000  | 20.08            |                 |
| 34 4-Methylphenol               | 108   |     | 4.421  | 4.421  | (1.118) | 106723 | 20.0000  | 19.26            |                 |
| 36 Hexachloroethane             | 117   |     | 4.504  | 4.504  | (1.139) | 44196  | 20.0000  | 19.98            |                 |
| 37 N-Nitrosodipropylamine       | 70    |     | 4.441  | 4.442  | (1.123) | 73913  | 20.0000  | 20.02            |                 |
| 42 Nitrobenzene                 | 77    |     | 4.597  | 4.597  | (0.857) | 101809 | 20.0000  | 19.65            |                 |
| 44 Isophorone                   | 82    |     | 4.856  | 4.856  | (0.905) | 191333 | 20.0000  | 19.21            |                 |
| 45 2-Nitrophenol                | 139   |     | 4.960  | 4.960  | (0.925) | 58938  | 20.0000  | 19.18            |                 |
| 46 2,4-Dimethylphenol           | 107   |     | 5.011  | 5.012  | (0.934) | 107325 | 20.0000  | 19.65            |                 |

let  
10-3-10

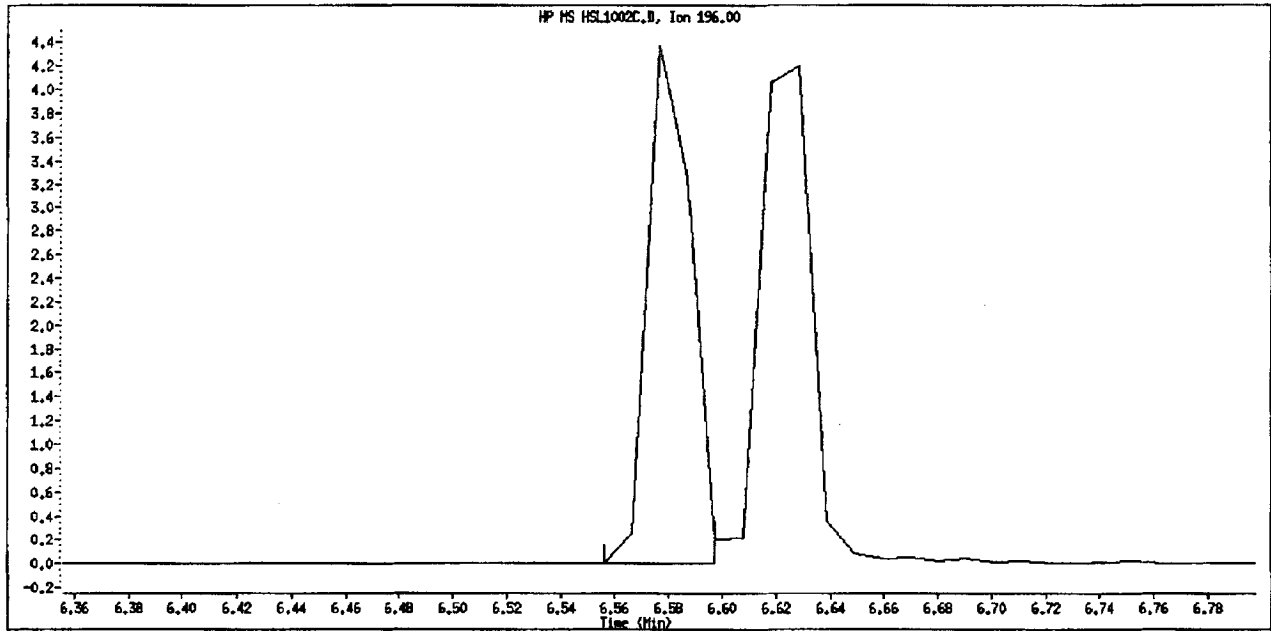
| Compounds                      | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|--------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                                |                   |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane  | 93                | 5.125  | 5.126  | (0.956) | 120646   | 20.0000          | 19.82           |
| 49 2,4-Dichlorophenol          | 162               | 5.229  | 5.229  | (0.975) | 84525    | 20.0000          | 20.01           |
| 50 Benzoic Acid                | 122               | 5.094  | 5.115  | (0.950) | 54506    | 20.0000          | 18.03           |
| 51 1,2,4-Trichlorobenzene      | 180               | 5.322  | 5.322  | (0.992) | 89082    | 20.0000          | 19.47           |
| 52 Naphthalene                 | 128               | 5.395  | 5.395  | (1.006) | 336100   | 20.0000          | 19.46           |
| 54 4-Chloroaniline             | 127               | 5.488  | 5.488  | (1.023) | 135348   | 20.0000          | 19.99           |
| 57 Hexachlorobutadiene         | 225               | 5.613  | 5.613  | (1.046) | 45138    | 20.0000          | 20.16           |
| 60 4-Chloro-3-Methylphenol     | 107               | 6.068  | 6.069  | (1.131) | 90970    | 20.0000          | 19.28           |
| 63 2-Methylnaphthalene         | 142               | 6.203  | 6.203  | (1.156) | 212981   | 20.0000          | 19.62           |
| 66 Hexachlorocyclopentadiene   | 237               | 6.483  | 6.483  | (0.868) | 47478    | 20.0000          | 19.36           |
| 69 2,4,6-Trichlorophenol       | 196               | 6.576  | 6.576  | (0.881) | 49658    | 20.0000          | 18.94 (Q)       |
| 70 2,4,5-Trichlorophenol       | 196               | 6.628  | 6.628  | (0.888) | 55529    | 20.0000          | 19.66 (QM)      |
| 71 2-Chloronaphthalene         | 162               | 6.784  | 6.784  | (0.908) | 180754   | 20.0000          | 19.54           |
| 73 2-Nitroaniline              | 65                | 6.949  | 6.949  | (0.931) | 54872    | 20.0000          | 19.58           |
| 76 Dimethylphthalate           | 163               | 7.219  | 7.229  | (0.967) | 213272   | 20.0000          | 20.03           |
| 77 Acenaphthylene              | 152               | 7.281  | 7.281  | (0.975) | 315165   | 20.0000          | 19.57           |
| 79 2,6-Dinitrotoluene          | 165               | 7.291  | 7.302  | (0.976) | 49111    | 20.0000          | 19.80 (QM)      |
| 80 3-Nitroaniline              | 138               | 7.447  | 7.447  | (0.997) | 59114    | 20.0000          | 19.09           |
| 81 Acenaphthene                | 153               | 7.509  | 7.509  | (1.006) | 208228   | 20.0000          | 20.31           |
| 82 2,4-Dinitrophenol           | 184               | 7.571  | 7.572  | (1.014) | 23799    | 20.0000          | 19.52           |
| 83 Dibenzofuran                | 168               | 7.695  | 7.706  | (1.031) | 271431   | 20.0000          | 19.95           |
| 84 4-Nitrophenol               | 109               | 7.675  | 7.675  | (1.028) | 25164    | 20.0000          | 19.59 (Q)       |
| 86 2,4-Dinitrotoluene          | 165               | 7.768  | 7.768  | (1.040) | 63223    | 20.0000          | 19.42           |
| 91 Fluorene                    | 166               | 8.131  | 8.131  | (1.089) | 220647   | 20.0000          | 19.58           |
| 92 Diethylphthalate            | 149               | 8.100  | 8.100  | (1.085) | 216140   | 20.0000          | 19.83           |
| 93 4-Chlorophenyl-phenylether  | 204               | 8.151  | 8.152  | (1.092) | 93468    | 20.0000          | 19.95           |
| 94 4-Nitroaniline              | 138               | 8.214  | 8.214  | (1.100) | 61333    | 20.0000          | 19.98           |
| 97 4,6-Dinitro-2-methylphenol  | 198               | 8.276  | 8.276  | (0.880) | 32982    | 20.0000          | 20.44           |
| 98 N-Nitrosodiphenylamine      | 169               | 8.317  | 8.317  | (0.884) | 186206   | 23.4000          | 23.36           |
| 100 Azobenzene                 | 77                | 8.348  | 8.348  | (0.888) | 203290   | 20.0000          | 19.66           |
| 101 4-Bromophenyl-phenylether  | 248               | 8.794  | 8.794  | (0.935) | 50693    | 20.0000          | 19.75           |
| 108 Hexachlorobenzene          | 284               | 8.980  | 8.981  | (0.955) | 54528    | 20.0000          | 19.02           |
| 110 Pentachlorophenol          | 266               | 9.240  | 9.240  | (0.982) | 30451    | 20.0000          | 20.33           |
| 114 Phenanthrene               | 178               | 9.436  | 9.437  | (1.003) | 329718   | 20.0000          | 19.89           |
| 115 Anthracene                 | 178               | 9.499  | 9.499  | (1.010) | 326558   | 20.0000          | 19.72           |
| 118 Carbazole                  | 167               | 9.768  | 9.768  | (1.039) | 298921   | 20.0000          | 19.76           |
| 120 Di-n-Butylphthalate        | 149               | 10.462 | 10.463 | (1.112) | 358075   | 20.0000          | 19.68           |
| 126 Fluoranthene               | 202               | 11.302 | 11.302 | (1.202) | 308182   | 20.0000          | 20.75           |
| 127 Benzidine                  | 184               | 11.571 | 11.571 | (0.840) | 222260   | 20.0000          | 18.56           |
| 128 Pyrene                     | 202               | 11.665 | 11.665 | (0.847) | 345805   | 20.0000          | 18.73           |
| 134 3,3'-dimethylbenzidine     | 212               | 12.867 | 12.867 | (0.934) | 198960   | 20.0000          | 18.82           |
| 136 Butylbenzylphthalate       | 149               | 12.991 | 12.991 | (0.943) | 174685   | 20.0000          | 18.88           |
| 138 Benzo(a)Anthracene         | 228               | 13.758 | 13.758 | (0.998) | 304948   | 20.0000          | 19.38           |
| 139 Chrysene                   | 228               | 13.820 | 13.831 | (1.003) | 314030   | 20.0000          | 19.51           |
| 140 3,3'-Dichlorobenzidine     | 252               | 13.799 | 13.799 | (1.002) | 115458   | 20.0000          | 19.45           |
| 141 bis(2-ethylhexyl)Phthalate | 149               | 14.110 | 14.110 | (1.024) | 248201   | 20.0000          | 19.47           |
| 142 Di-n-octylphthalate        | 149               | 15.157 | 15.167 | (1.100) | 400592   | 20.0000          | 19.66           |
| 144 Benzo(b)fluoranthene       | 252               | 15.582 | 15.582 | (0.964) | 256213   | 20.0000          | 18.28 (Q)       |
| 145 Benzo(k)fluoranthene       | 252               | 15.613 | 15.623 | (0.966) | 371629   | 20.0000          | 20.65 (q)       |
| 147 Benzo(e)pyrene             | 252               | 15.996 | 16.007 | (0.990) | 281015   | 20.0000          | 19.22           |
| 148 Benzo(a)pyrene             | 252               | 16.069 | 16.079 | (0.994) | 307781   | 20.0000          | 19.37           |
| 151 Indeno(1,2,3-cd)pyrene     | 276               | 17.789 | 17.800 | (1.101) | 228110   | 20.0000          | 17.74           |
| 152 Dibenzo(a,h)anthracene     | 278               | 17.841 | 17.841 | (1.104) | 270172   | 20.0000          | 18.81           |
| 153 Benzo(g,h,i)perylene       | 276               | 18.224 | 18.235 | (1.128) | 301520   | 20.0000          | 19.39           |

| Compounds                           | QUANT SIG |  |       |        |        |          | AMOUNTS          |                 |
|-------------------------------------|-----------|--|-------|--------|--------|----------|------------------|-----------------|
|                                     | MASS      |  | RT    | EXP RT | REL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| -----                               | -----     |  | ----- | -----  | -----  | -----    | -----            | -----           |
| M 162 benzo b,k Fluoranthene Totals | 252       |  |       |        |        | 627842   | 20.0000          | 19.61 (A)       |

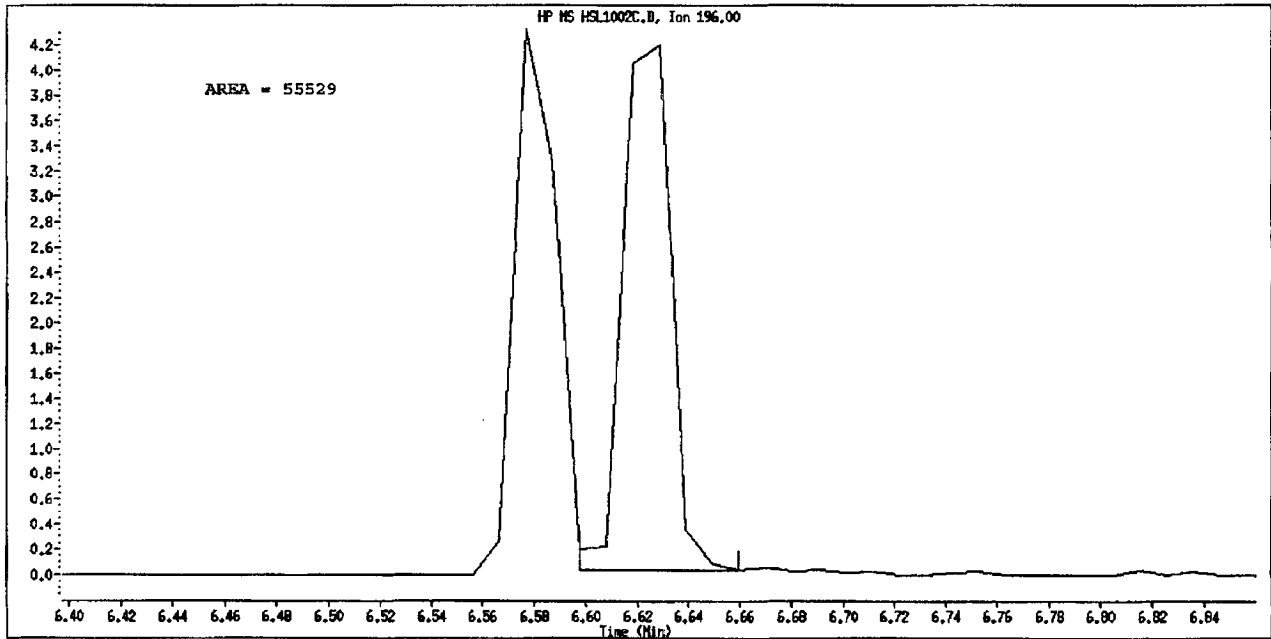
### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002C.D  
Inj. Date and Time: 02-OCT-2010 13:18  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,5-Trichlorophenol  
CAS #: 95-95-4  
Report Date: 10/03/2010



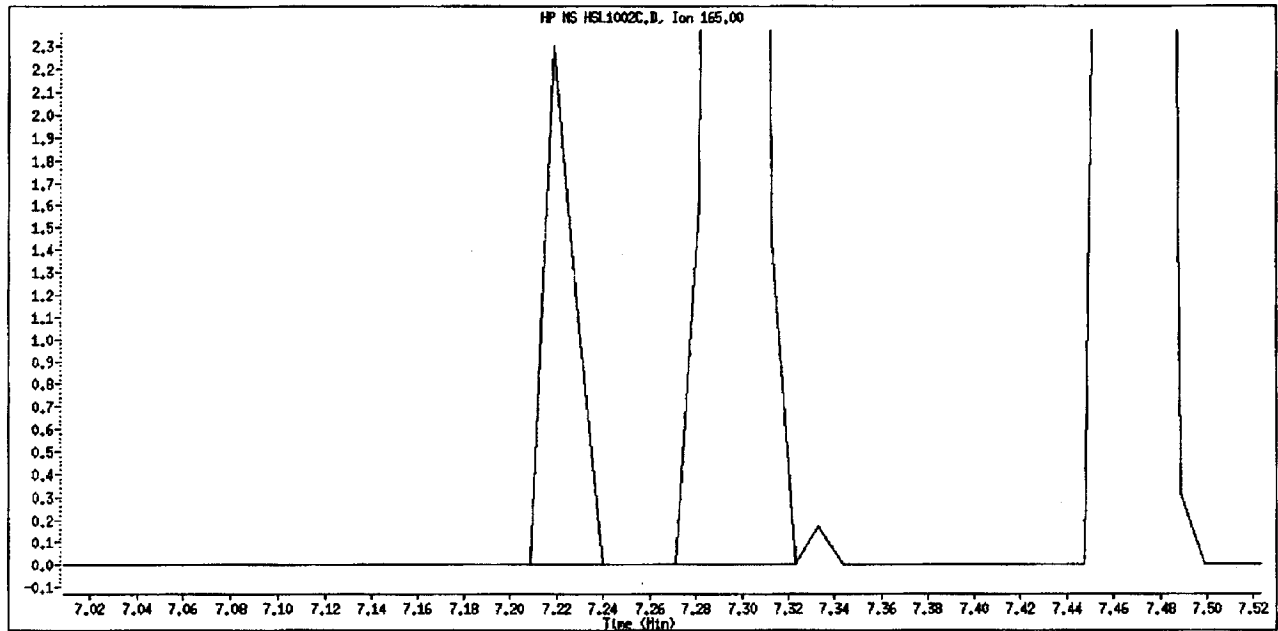
Original Integration



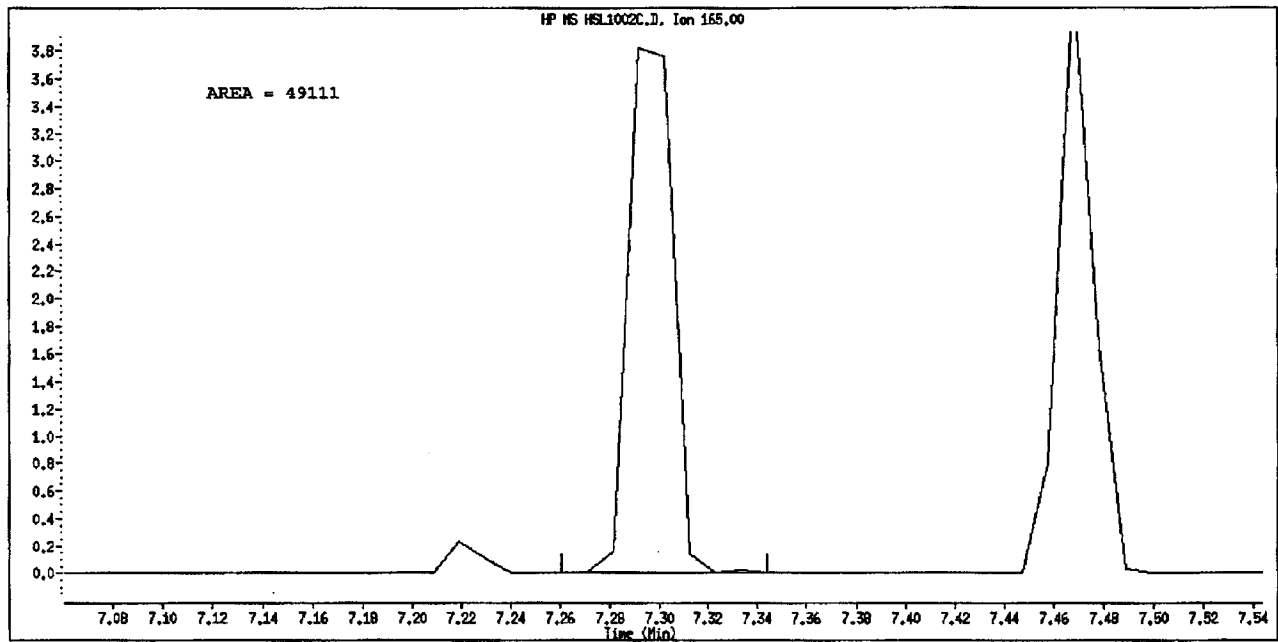
Manual Integration

Manually Integrated By: trungk  
Manual Integration Reason: Wrong Peak

Data File Name: HSL1002C.D  
Inj. Date and Time: 02-OCT-2010 13:18  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truonk  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002C.D  
 Lab Smp Id: HSL\_020 ug/ml CS-3 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 13:18  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_020 ug/ml CS-3;1;;3;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0309;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 3 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-------|-----|--------|--------|---------|----------|------------------|-----------------|
|                                 |       |     |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152   |     | 3.954  | 3.955  | (1.000) | 145926   | 40.0000          | (Q)             |
| * 2 Naphthalene-d8              | 136   |     | 5.364  | 5.374  | (1.000) | 625682   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164   |     | 7.467  | 7.468  | (1.000) | 328608   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188   |     | 9.405  | 9.405  | (1.000) | 525834   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240   |     | 13.779 | 13.779 | (1.000) | 590727   | 40.0000          |                 |
| * 6 Perylene-d12                | 264   |     | 16.162 | 16.162 | (1.000) | 619266   | 40.0000          |                 |
| \$ 7 2-Fluorophenol             | 112   |     | 2.732  | 2.732  | (0.691) | 100961   | 20.0000          | 18.75           |
| \$ 8 Phenol-d5                  | 99    |     | 3.612  | 3.613  | (0.914) | 127066   | 20.0000          | 18.55           |
| \$ 9 2-Chlorophenol-d4          | 132   |     | 3.747  | 3.758  | (0.948) | 112302   | 20.0000          | 19.23           |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 4.162  | 4.162  | (1.052) | 72837    | 20.0000          | 19.98 (q)       |
| \$ 11 Nitrobenzene-d5           | 82    |     | 4.576  | 4.576  | (0.853) | 103440   | 20.0000          | 18.64           |
| \$ 12 2-Fluorobiphenyl          | 172   |     | 6.680  | 6.680  | (0.895) | 209764   | 20.0000          | 19.93           |
| \$ 13 2,4,6-Tribromophenol      | 330   |     | 8.473  | 8.473  | (1.135) | 28698    | 20.0000          | 22.12           |
| \$ 14 Terphenyl-d14             | 244   |     | 12.017 | 12.017 | (0.872) | 218324   | 20.0000          | 18.95           |
| 15 N-Nitrosodimethylamine       | 74    |     | 1.706  | 1.706  | (0.431) | 66431    | 20.0000          | 18.69           |
| 16 Pyridine                     | 79    |     | 1.726  | 1.726  | (0.437) | 116339   | 20.0000          | 19.64           |
| 23 Aniline                      | 93    |     | 3.654  | 3.654  | (0.924) | 160510   | 20.0000          | 18.69           |
| 24 Phenol                       | 94    |     | 3.623  | 3.623  | (0.916) | 147994   | 20.0000          | 20.32           |
| 26 Bis(2-chloroethyl) ether     | 93    |     | 3.716  | 3.716  | (0.940) | 101777   | 20.0000          | 18.39           |
| 27 2-Chlorophenol               | 128   |     | 3.768  | 3.768  | (0.953) | 114481   | 20.0000          | 19.86           |
| 28 1,3-Dichlorobenzene          | 146   |     | 3.913  | 3.923  | (0.990) | 122398   | 20.0000          | 19.22           |
| 29 1,4-Dichlorobenzene          | 146   |     | 3.975  | 3.975  | (1.005) | 126965   | 20.0000          | 19.72           |
| 30 Benzyl Alcohol               | 108   |     | 4.120  | 4.120  | (1.042) | 72366    | 20.0000          | 18.27           |
| 31 1,2-Dichlorobenzene          | 146   |     | 4.172  | 4.172  | (1.055) | 117073   | 20.0000          | 19.18           |
| 32 2-Methylphenol               | 108   |     | 4.255  | 4.255  | (1.076) | 101499   | 20.0000          | 18.85           |
| 33 2,2'-oxybis(1-Chloropropane) | 45    |     | 4.296  | 4.297  | (1.086) | 166596   | 20.0000          | 16.22           |
| 34 4-Methylphenol               | 108   |     | 4.421  | 4.421  | (1.118) | 106723   | 20.0000          | 18.60           |
| 36 Hexachloroethane             | 117   |     | 4.504  | 4.504  | (1.139) | 44196    | 20.0000          | 19.45           |
| 37 N-Nitrosodipropylamine       | 70    |     | 4.441  | 4.442  | (1.123) | 73913    | 20.0000          | 18.40           |
| 42 Nitrobenzene                 | 77    |     | 4.597  | 4.597  | (0.857) | 101809   | 20.0000          | 18.46           |
| 44 Isophorone                   | 82    |     | 4.856  | 4.856  | (0.905) | 191333   | 20.0000          | 18.30           |
| 45 2-Nitrophenol                | 139   |     | 4.960  | 4.960  | (0.925) | 58938    | 20.0000          | 19.57           |
| 46 2,4-Dimethylphenol           | 107   |     | 5.011  | 5.012  | (0.934) | 107325   | 20.0000          | 19.20           |

| Compounds                      | QUANT SIG |        | AMOUNTS |         |          |                  |                 |
|--------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT  | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane  | 93        | 5.125  | 5.126   | (0.956) | 120646   | 20.0000          | 19.38           |
| 49 2,4-Dichlorophenol          | 162       | 5.229  | 5.229   | (0.975) | 84525    | 20.0000          | 20.54           |
| 50 Benzoic Acid                | 122       | 5.094  | 5.115   | (0.950) | 54506    | 20.0000          | 17.49           |
| 51 1,2,4-Trichlorobenzene      | 180       | 5.322  | 5.322   | (0.992) | 89082    | 20.0000          | 19.97           |
| 52 Naphthalene                 | 128       | 5.395  | 5.395   | (1.006) | 336100   | 20.0000          | 19.30           |
| 54 4-Chloroaniline             | 127       | 5.488  | 5.488   | (1.023) | 135348   | 20.0000          | 19.76           |
| 57 Hexachlorobutadiene         | 225       | 5.613  | 5.613   | (1.046) | 45138    | 20.0000          | 21.26           |
| 60 4-Chloro-3-Methylphenol     | 107       | 6.068  | 6.069   | (1.131) | 90970    | 20.0000          | 19.21           |
| 63 2-Methylnaphthalene         | 142       | 6.203  | 6.203   | (1.156) | 212981   | 20.0000          | 20.04           |
| 66 Hexachlorocyclopentadiene   | 237       | 6.483  | 6.483   | (0.868) | 47478    | 20.0000          | 18.94           |
| 69 2,4,6-Trichlorophenol       | 196       | 6.576  | 6.576   | (0.881) | 49658    | 20.0000          | 19.96 (Q)       |
| 70 2,4,5-Trichlorophenol       | 196       | 6.576  | 6.628   | (0.881) | 49658    | 20.0000          | 18.17 (Q)       |
| 71 2-Chloronaphthalene         | 162       | 6.784  | 6.784   | (0.908) | 180754   | 20.0000          | 19.62           |
| 73 2-Nitroaniline              | 65        | 6.949  | 6.949   | (0.931) | 54872    | 20.0000          | 17.78           |
| 76 Dimethylphthalate           | 163       | 7.219  | 7.229   | (0.967) | 213272   | 20.0000          | 20.04           |
| 77 Acenaphthylene              | 152       | 7.281  | 7.281   | (0.975) | 315165   | 20.0000          | 19.57           |
| 79 2,6-Dinitrotoluene          | 165       | 7.219  | 7.302   | (0.967) | 51125    | 20.0000          | 21.45 (Q)       |
| 80 3-Nitroaniline              | 138       | 7.447  | 7.447   | (0.997) | 59114    | 20.0000          | 18.71           |
| 81 Acenaphthene                | 153       | 7.509  | 7.509   | (1.006) | 208228   | 20.0000          | 20.29           |
| 82 2,4-Dinitrophenol           | 184       | 7.571  | 7.571   | (1.014) | 23799    | 20.0000          | 19.22           |
| 83 Dibenzofuran                | 168       | 7.695  | 7.706   | (1.031) | 271431   | 20.0000          | 20.02           |
| 84 4-Nitrophenol               | 109       | 7.675  | 7.675   | (1.028) | 25164    | 20.0000          | 18.24 (Q)       |
| 86 2,4-Dinitrotoluene          | 165       | 7.768  | 7.768   | (1.040) | 63223    | 20.0000          | 19.81           |
| 91 Fluorene                    | 166       | 8.131  | 8.131   | (1.089) | 220647   | 20.0000          | 19.86           |
| 92 Diethylphthalate            | 149       | 8.100  | 8.100   | (1.085) | 216140   | 20.0000          | 19.43           |
| 93 4-Chlorophenyl-phenylether  | 204       | 8.151  | 8.152   | (1.092) | 93468    | 20.0000          | 20.41           |
| 94 4-Nitroaniline              | 138       | 8.214  | 8.214   | (1.100) | 61333    | 20.0000          | 19.86           |
| 97 4,6-Dinitro-2-methylphenol  | 198       | 8.276  | 8.276   | (0.880) | 32982    | 20.0000          | 20.90           |
| 98 N-Nitrosodiphenylamine      | 169       | 8.317  | 8.317   | (0.884) | 186206   | 23.4000          | 22.72           |
| 100 Azobenzene                 | 77        | 8.348  | 8.348   | (0.888) | 203290   | 20.0000          | 17.83           |
| 101 4-Bromophenyl-phenylether  | 248       | 8.794  | 8.794   | (0.935) | 50693    | 20.0000          | 19.95           |
| 108 Hexachlorobenzene          | 284       | 8.980  | 8.981   | (0.955) | 54528    | 20.0000          | 19.87           |
| 110 Pentachlorophenol          | 266       | 9.240  | 9.240   | (0.982) | 30451    | 20.0000          | 18.48           |
| 114 Phenanthrene               | 178       | 9.436  | 9.437   | (1.003) | 329718   | 20.0000          | 20.10           |
| 115 Anthracene                 | 178       | 9.499  | 9.499   | (1.010) | 326558   | 20.0000          | 19.78           |
| 118 Carbazole                  | 167       | 9.768  | 9.768   | (1.039) | 298921   | 20.0000          | 19.47           |
| 120 Di-n-Butylphthalate        | 149       | 10.462 | 10.463  | (1.112) | 358075   | 20.0000          | 19.29           |
| 126 Fluoranthene               | 202       | 11.302 | 11.302  | (1.202) | 308182   | 20.0000          | 20.88           |
| 127 Benzidine                  | 184       | 11.571 | 11.571  | (0.840) | 222260   | 20.0000          | 18.32           |
| 128 Pyrene                     | 202       | 11.665 | 11.665  | (0.847) | 345805   | 20.0000          | 18.72           |
| 134 3,3'-dimethylbenzidine     | 212       | 12.867 | 12.867  | (0.934) | 198960   | 20.0000          | 19.11           |
| 136 Butylbenzylphthalate       | 149       | 12.991 | 12.991  | (0.943) | 174685   | 20.0000          | 18.51           |
| 138 Benzo(a)Anthracene         | 228       | 13.758 | 13.758  | (0.998) | 304948   | 20.0000          | 19.57           |
| 139 Chrysene                   | 228       | 13.820 | 13.831  | (1.003) | 314030   | 20.0000          | 19.39           |
| 140 3,3'-Dichlorobenzidine     | 252       | 13.799 | 13.799  | (1.002) | 115458   | 20.0000          | 20.25           |
| 141 bis(2-ethylhexyl)Phthalate | 149       | 14.110 | 14.110  | (1.024) | 248201   | 20.0000          | 19.10           |
| 142 Di-n-octylphthalate        | 149       | 15.157 | 15.167  | (1.100) | 400592   | 20.0000          | 19.28           |
| 144 Benzo(b)fluoranthene       | 252       | 15.582 | 15.582  | (0.964) | 256213   | 20.0000          | 17.45 (Q)       |
| 145 Benzo(k)fluoranthene       | 252       | 15.613 | 15.623  | (0.966) | 371629   | 20.0000          | 21.66 (Q)       |
| 147 Benzo(e)pyrene             | 252       | 15.996 | 16.007  | (0.990) | 281015   | 20.0000          | 19.30           |
| 148 Benzo(a)pyrene             | 252       | 16.069 | 16.079  | (0.994) | 307781   | 20.0000          | 19.26           |
| 151 Indeno(1,2,3-cd)pyrene     | 276       | 17.789 | 17.800  | (1.101) | 228110   | 20.0000          | 16.13           |
| 152 Dibenzo(a,h)anthracene     | 278       | 17.841 | 17.841  | (1.104) | 270172   | 20.0000          | 18.64           |
| 153 Benzo(g,h,i)perylene       | 276       | 18.224 | 18.235  | (1.128) | 301520   | 20.0000          | 19.41           |

| Compounds                           | QUANT SIG |  |      |        |        |          | AMOUNTS          |                 |
|-------------------------------------|-----------|--|------|--------|--------|----------|------------------|-----------------|
|                                     | MASS      |  | RT   | EXP RT | RRL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| -----                               | ----      |  | ---- | -----  | -----  | -----    | -----            | -----           |
| M 162 benzo b,k Fluoranthene Totals | 252       |  |      |        |        | 627842   | 20.0000          | 19.72 (A)       |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.



TestAmerica West Sacramento  
 INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002C.D  
 Lab Smp Id: HSL 020 ug/ml CS-3  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0309;0;8270F.M

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

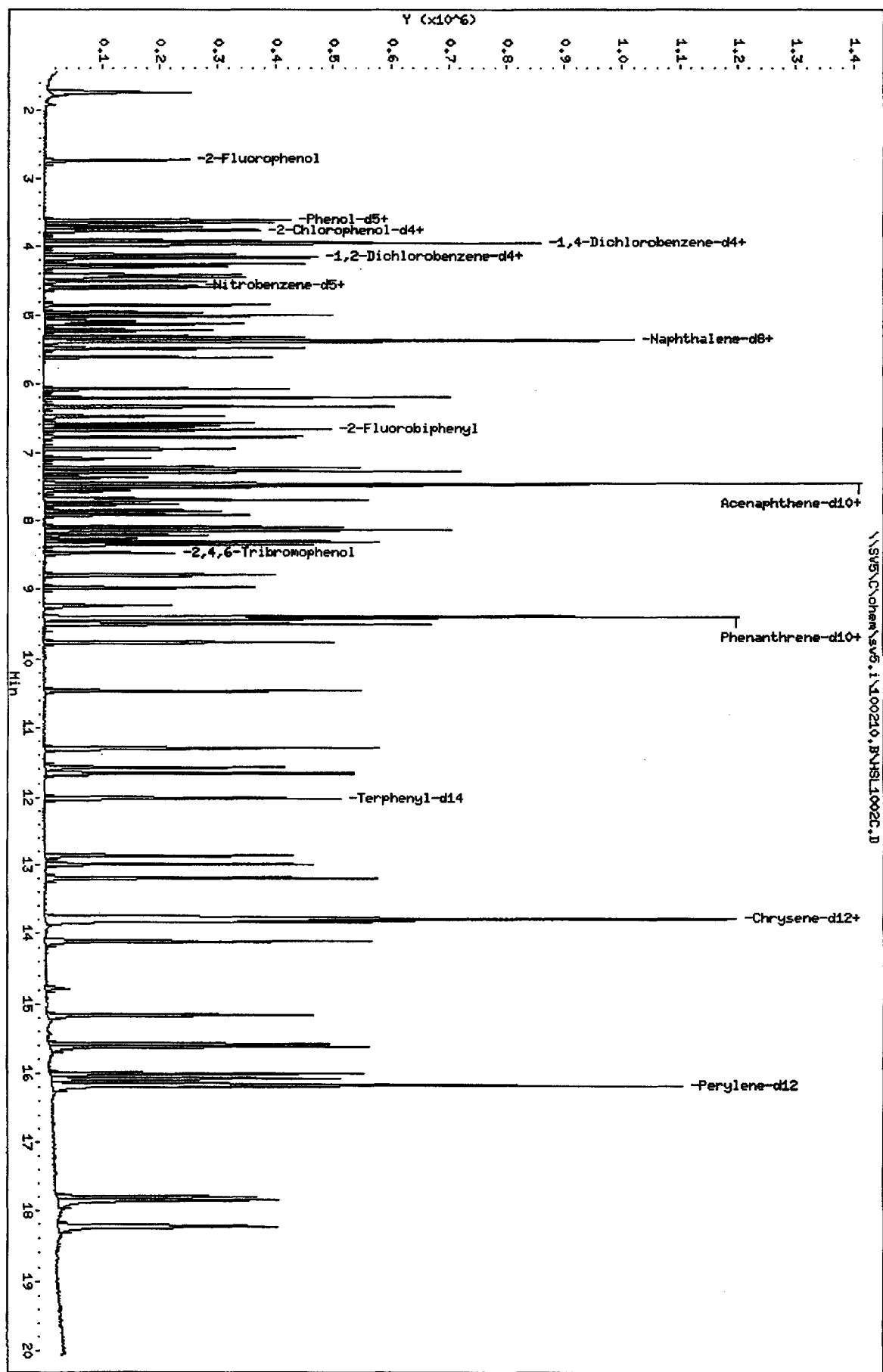
| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 145926 | 19.00 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 625682 | 17.94 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 328608 | 16.31 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 525834 | 13.64 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 590727 | 35.53 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 619266 | 46.65 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.96     | 3.46     | 4.46  | 3.95   | -0.00 |
| 2 Naphthalene-d8    | 5.37     | 4.87     | 5.87  | 5.36   | -0.20 |
| 3 Acenaphthene-d10  | 7.47     | 6.97     | 7.97  | 7.47   | -0.00 |
| 4 Phenanthrene-d10  | 9.41     | 8.91     | 9.91  | 9.41   | -0.00 |
| 5 Chrysene-d12      | 13.78    | 13.28    | 14.28 | 13.78  | -0.00 |
| 6 Perylene-d12      | 16.16    | 15.66    | 16.66 | 16.16  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV55\chem\sv5.1\100210.B\HSL1002C.D  
Date: 02-OCT-2010 13:18  
Client ID: 8270F.H  
Sample Infor: HSL\_020 ug/ml CS-3;1;3;1;1;4  
Column phase:

Instrument: sv5.1  
Operator: KT  
Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002D.D  
 Lab Smp Id: HSL 050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 13:44  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 050 ug/ml CS-4;1;;4;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 4 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

| Compounds                       | QUANT SIG | MASS   | RT     | EXP RT  | REL RT | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-----------|--------|--------|---------|--------|----------|------------------|-----------------|
|                                 |           |        |        |         |        |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 3.955  | 3.955  | (1.000) | 122625 | 40.0000  |                  |                 |
| * 2 Naphthalene-d8              | 136       | 5.374  | 5.374  | (1.000) | 530514 | 40.0000  |                  |                 |
| * 3 Acenaphthene-d10            | 164       | 7.468  | 7.468  | (1.000) | 282538 | 40.0000  |                  |                 |
| * 4 Phenanthrene-d10            | 188       | 9.405  | 9.405  | (1.000) | 462722 | 40.0000  |                  |                 |
| * 5 Chrysene-d12                | 240       | 13.779 | 13.779 | (1.000) | 435850 | 40.0000  |                  |                 |
| * 6 Perylene-d12                | 264       | 16.162 | 16.162 | (1.000) | 422284 | 40.0000  |                  |                 |
| \$ 7 2-Fluorophenol             | 112       | 2.732  | 2.732  | (0.691) | 220986 | 50.0000  | 51.13            |                 |
| \$ 8 Phenol-d5                  | 99        | 3.613  | 3.613  | (0.914) | 274382 | 50.0000  | 50.48            |                 |
| \$ 9 2-Chlorophenol-d4          | 132       | 3.758  | 3.758  | (0.950) | 244352 | 50.0000  | 51.19            |                 |
| \$ 10 1,2-Dichlorobenzene-d4    | 152       | 4.162  | 4.162  | (1.052) | 151616 | 50.0000  | 50.20            |                 |
| \$ 11 Nitrobenzene-d5           | 82        | 4.576  | 4.576  | (0.852) | 226162 | 50.0000  | 50.33            |                 |
| \$ 12 2-Fluorobiphenyl          | 172       | 6.680  | 6.680  | (0.895) | 473978 | 50.0000  | 52.08            |                 |
| \$ 13 2,4,6-Tribromophenol      | 330       | 8.473  | 8.473  | (1.135) | 63311  | 50.0000  | 51.57            |                 |
| \$ 14 Terphenyl-d14             | 244       | 12.017 | 12.017 | (0.872) | 438253 | 50.0000  | 51.05            |                 |
| 15 N-Nitrosodimethylamine       | 74        | 1.706  | 1.706  | (0.431) | 140972 | 50.0000  | 49.90 (M)        |                 |
| 16 Pyridine                     | 79        | 1.726  | 1.726  | (0.437) | 240053 | 50.0000  | 50.81 (M)        |                 |
| 23 Aniline                      | 93        | 3.654  | 3.654  | (0.924) | 346504 | 50.0000  | 50.08            |                 |
| 24 Phenol                       | 94        | 3.623  | 3.623  | (0.916) | 311820 | 50.0000  | 49.93            |                 |
| 26 Bis(2-chloroethyl)ether      | 93        | 3.716  | 3.716  | (0.940) | 220455 | 50.0000  | 50.34            |                 |
| 27 2-Chlorophenol               | 128       | 3.768  | 3.768  | (0.953) | 242442 | 50.0000  | 50.57            |                 |
| 28 1,3-Dichlorobenzene          | 146       | 3.923  | 3.923  | (0.992) | 265384 | 50.0000  | 50.82            |                 |
| 29 1,4-Dichlorobenzene          | 146       | 3.975  | 3.975  | (1.005) | 271151 | 50.0000  | 49.66            |                 |
| 30 Benzyl Alcohol               | 108       | 4.120  | 4.120  | (1.042) | 160914 | 50.0000  | 49.94            |                 |
| 31 1,2-Dichlorobenzene          | 146       | 4.172  | 4.172  | (1.055) | 257606 | 50.0000  | 51.32            |                 |
| 32 2-Methylphenol               | 108       | 4.255  | 4.255  | (1.076) | 218610 | 50.0000  | 49.86            |                 |
| 33 2,2'-oxybis(1-Chloropropane) | 45        | 4.297  | 4.297  | (1.086) | 349371 | 50.0000  | 50.12            |                 |
| 34 4-Methylphenol               | 108       | 4.421  | 4.421  | (1.118) | 233354 | 50.0000  | 50.11            |                 |
| 36 Hexachloroethane             | 117       | 4.504  | 4.504  | (1.139) | 94106  | 50.0000  | 50.62            |                 |
| 37 N-Nitrosodipropylamine       | 70        | 4.442  | 4.442  | (1.123) | 156914 | 50.0000  | 50.59            |                 |
| 42 Nitrobenzene                 | 77        | 4.597  | 4.597  | (0.855) | 219387 | 50.0000  | 49.95            |                 |
| 44 Isophorone                   | 82        | 4.856  | 4.856  | (0.904) | 420061 | 50.0000  | 49.74            |                 |
| 45 2-Nitrophenol                | 139       | 4.960  | 4.960  | (0.923) | 132771 | 50.0000  | 50.95            |                 |
| 46 2,4-Dimethylphenol           | 107       | 5.012  | 5.012  | (0.933) | 231517 | 50.0000  | 50.00            |                 |

10-3-10

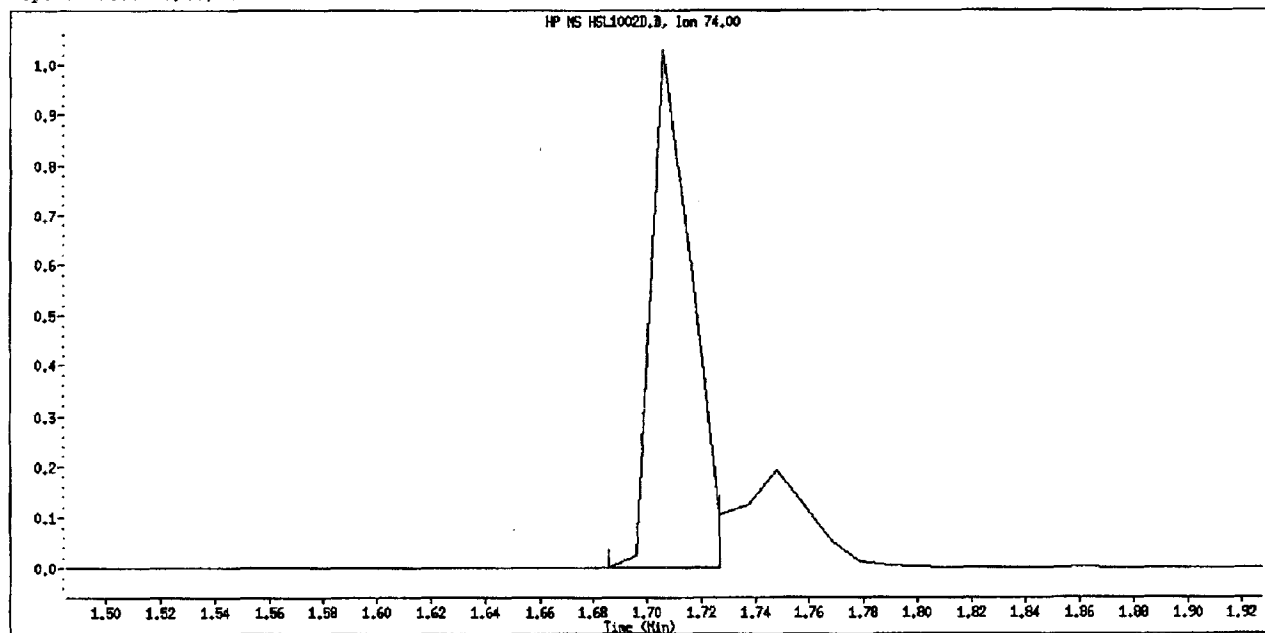
| Compounds                       | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                                 |                   |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane   | 93                | 5.126  | 5.126  | (0.954) | 253648   | 50.0000          | 49.15           |
| 49 2,4-Dichlorophenol           | 162               | 5.229  | 5.229  | (0.973) | 179296   | 50.0000          | 50.05           |
| 50 Benzoic Acid                 | 122               | 5.115  | 5.115  | (0.952) | 128366   | 50.0000          | 50.08           |
| 51 1,2,4-Trichlorobenzene       | 180               | 5.322  | 5.322  | (0.990) | 197265   | 50.0000          | 50.86           |
| 52 Naphthalene                  | 128               | 5.395  | 5.395  | (1.004) | 724980   | 50.0000          | 49.49           |
| 54 4-Chloroaniline              | 127               | 5.488  | 5.488  | (1.021) | 291184   | 50.0000          | 50.72           |
| 57 Hexachlorobutadiene          | 225               | 5.613  | 5.613  | (1.044) | 95592    | 50.0000          | 50.36           |
| 60 4-Chloro-3-Methylphenol      | 107               | 6.069  | 6.069  | (1.129) | 205388   | 50.0000          | 51.34           |
| 63 2-Methylnaphthalene          | 142               | 6.203  | 6.203  | (1.154) | 464646   | 50.0000          | 50.50           |
| 66 Hexachlorocyclopentadiene    | 237               | 6.483  | 6.483  | (0.868) | 104908   | 50.0000          | 49.76           |
| 69 2,4,6-Trichlorophenol        | 196               | 6.576  | 6.576  | (0.881) | 113001   | 50.0000          | 50.13           |
| 70 2,4,5-Trichlorophenol        | 196               | 6.628  | 6.628  | (0.888) | 128196   | 50.0000          | 52.79           |
| 71 2-Chloronaphthalene          | 162               | 6.784  | 6.784  | (0.908) | 403257   | 50.0000          | 50.72           |
| 73 2-Nitroaniline               | 65                | 6.949  | 6.949  | (0.931) | 124335   | 50.0000          | 51.59           |
| 76 Dimethylphthalate            | 163               | 7.229  | 7.229  | (0.968) | 475258   | 50.0000          | 51.91           |
| 77 Acenaphthylene               | 152               | 7.281  | 7.281  | (0.975) | 712158   | 50.0000          | 51.43           |
| 79 2,6-Dinitrotoluene           | 165               | 7.302  | 7.302  | (0.978) | 110261   | 50.0000          | 51.69           |
| 80 3-Nitroaniline               | 138               | 7.447  | 7.447  | (0.997) | 141396   | 50.0000          | 53.11           |
| 81 Acenaphthene                 | 153               | 7.509  | 7.509  | (1.006) | 448691   | 50.0000          | 50.90           |
| 82 2,4-Dinitrophenol            | 184               | 7.571  | 7.571  | (1.014) | 58864    | 50.0000          | 47.37           |
| 83 Dibenzofuran                 | 168               | 7.706  | 7.706  | (1.032) | 598735   | 50.0000          | 51.18           |
| 84 4-Nitrophenol                | 109               | 7.675  | 7.675  | (1.028) | 56777    | 50.0000          | 51.41           |
| 86 2,4-Dinitrotoluene           | 165               | 7.768  | 7.768  | (1.040) | 148875   | 50.0000          | 53.18           |
| 91 Fluorene                     | 166               | 8.131  | 8.131  | (1.089) | 494097   | 50.0000          | 51.01           |
| 92 Diethylphthalate             | 149               | 8.100  | 8.100  | (1.085) | 487067   | 50.0000          | 51.96           |
| 93 4-Chlorophenyl-phenylether   | 204               | 8.152  | 8.152  | (1.092) | 209308   | 50.0000          | 51.97           |
| 94 4-Nitroaniline               | 138               | 8.214  | 8.214  | (1.100) | 135397   | 50.0000          | 51.31           |
| 97 4,6-Dinitro-2-methylphenol   | 198               | 8.276  | 8.276  | (0.880) | 76137    | 50.0000          | 46.58           |
| 98 N-Nitrosodiphenylamine       | 169               | 8.317  | 8.317  | (0.884) | 409666   | 58.6000          | 58.41           |
| 100 Azobenzene                  | 77                | 8.348  | 8.348  | (0.888) | 459960   | 50.0000          | 50.55           |
| 101 4-Bromophenyl-phenylether   | 248               | 8.794  | 8.794  | (0.935) | 115283   | 50.0000          | 51.04           |
| 108 Hexachlorobenzene           | 284               | 8.981  | 8.981  | (0.955) | 124963   | 50.0000          | 49.54           |
| 110 Pentachlorophenol           | 266               | 9.240  | 9.240  | (0.982) | 67882    | 50.0000          | 45.48           |
| 114 Phenanthrene                | 178               | 9.437  | 9.437  | (1.003) | 718164   | 50.0000          | 49.24           |
| 115 Anthracene                  | 178               | 9.499  | 9.499  | (1.010) | 728681   | 50.0000          | 50.01           |
| 118 Carbazole                   | 167               | 9.768  | 9.768  | (1.039) | 660885   | 50.0000          | 49.65           |
| 120 Di-n-Butylphthalate         | 149               | 10.463 | 10.463 | (1.112) | 799142   | 50.0000          | 49.90           |
| 126 Fluoranthene                | 202               | 11.302 | 11.302 | (1.202) | 639252   | 50.0000          | 48.92           |
| 127 Benzidine                   | 184               | 11.571 | 11.571 | (0.840) | 450332   | 50.0000          | 50.98           |
| 128 Pyrene                      | 202               | 11.665 | 11.665 | (0.847) | 701084   | 50.0000          | 51.46           |
| 134 3,3'-dimethylbenzidine      | 212               | 12.867 | 12.867 | (0.934) | 385489   | 50.0000          | 49.44           |
| 136 Butylbenzylphthalate        | 149               | 12.991 | 12.991 | (0.943) | 340978   | 50.0000          | 49.94           |
| 138 Benzo(a)Anthracene          | 228               | 13.758 | 13.758 | (0.998) | 569271   | 50.0000          | 49.03           |
| 139 Chrysene                    | 228               | 13.831 | 13.831 | (1.004) | 597685   | 50.0000          | 50.33           |
| 140 3,3'-Dichlorobenzidine      | 252               | 13.799 | 13.799 | (1.002) | 217413   | 50.0000          | 49.65           |
| 141 bis(2-ethylhexyl) Phthalate | 149               | 14.110 | 14.110 | (1.024) | 464144   | 50.0000          | 49.35           |
| 142 Di-n-octylphthalate         | 149               | 15.167 | 15.167 | (1.101) | 732406   | 50.0000          | 48.72           |
| 144 Benzo(b)fluoranthene        | 252               | 15.582 | 15.582 | (0.964) | 527487   | 50.0000          | 55.18           |
| 145 Benzo(k)fluoranthene        | 252               | 15.623 | 15.623 | (0.967) | 580084   | 50.0000          | 47.27           |
| 147 Benzo(e)pyrene              | 252               | 16.007 | 16.007 | (0.990) | 506622   | 50.0000          | 50.82           |
| 148 Benzo(a)pyrene              | 252               | 16.079 | 16.079 | (0.995) | 542578   | 50.0000          | 50.06           |
| 151 Indeno(1,2,3-cd)pyrene      | 276               | 17.800 | 17.800 | (1.101) | 447085   | 50.0000          | 51.00 (M)       |
| 152 Dibenzo(a,h)anthracene      | 278               | 17.841 | 17.841 | (1.104) | 486893   | 50.0000          | 49.72           |
| 153 Benzo(g,h,i)perylene        | 276               | 18.235 | 18.235 | (1.128) | 527720   | 50.0000          | 49.77           |

| Compounds                           | QUANT SIG |  |      |        |        |          | AMOUNTS          |                 |
|-------------------------------------|-----------|--|------|--------|--------|----------|------------------|-----------------|
|                                     | MASS      |  | RT   | EXP RT | REL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====                               | ====      |  | ---- | -----  | -----  | -----    | -----            | -----           |
| M 162 benzo b,k Fluoranthene Totals | 252       |  |      |        |        | 1107571  | 50.0000          | 50.74 (A)       |

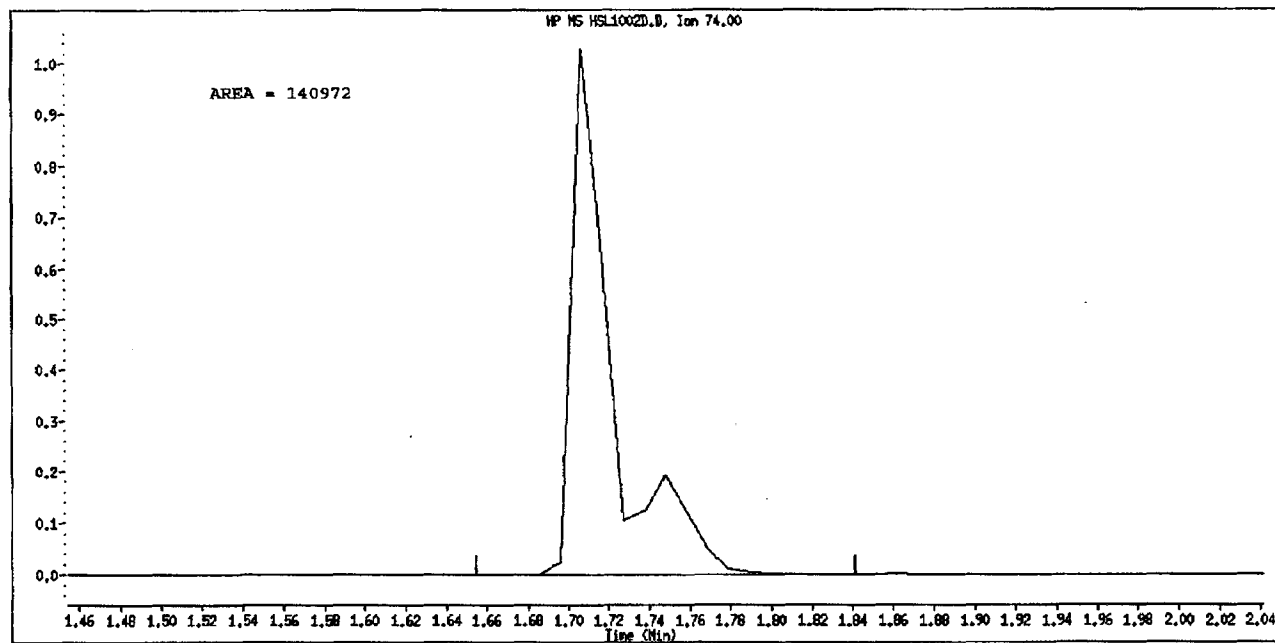
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.

Data File Name: HSL1002D.D  
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Client ID: 9270F.M  
Compound Name: N-Nitrosodimethylamine  
CAS #: 62-75-9  
Report Date: 10/03/2010



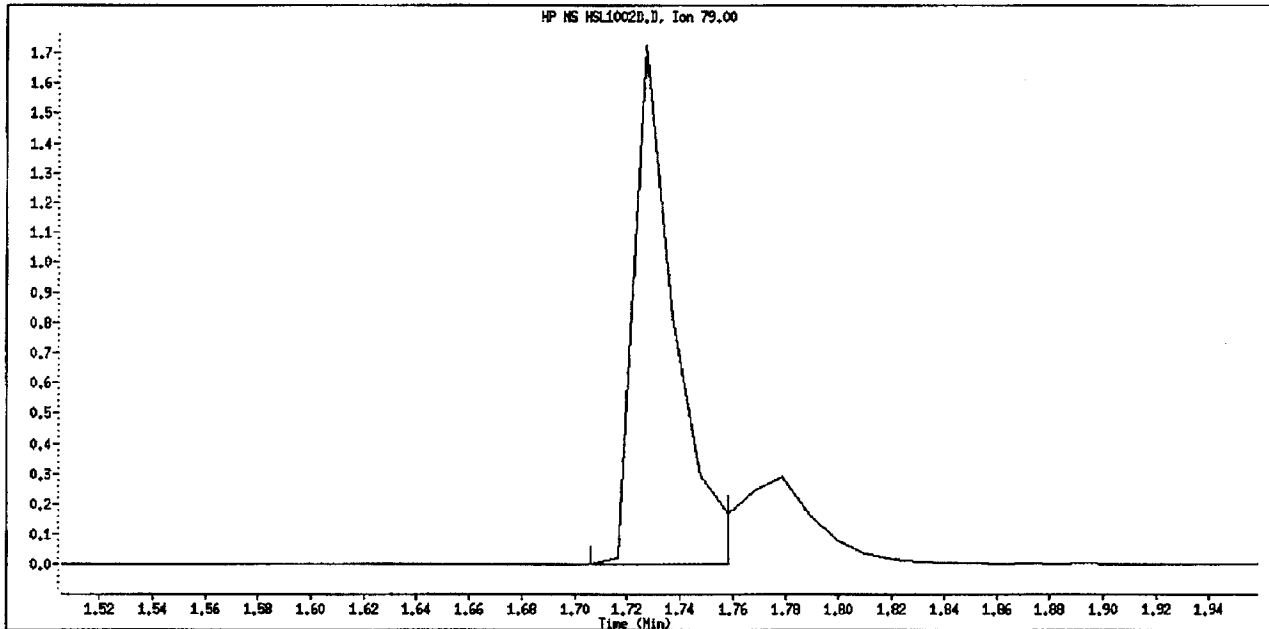
Original Integration



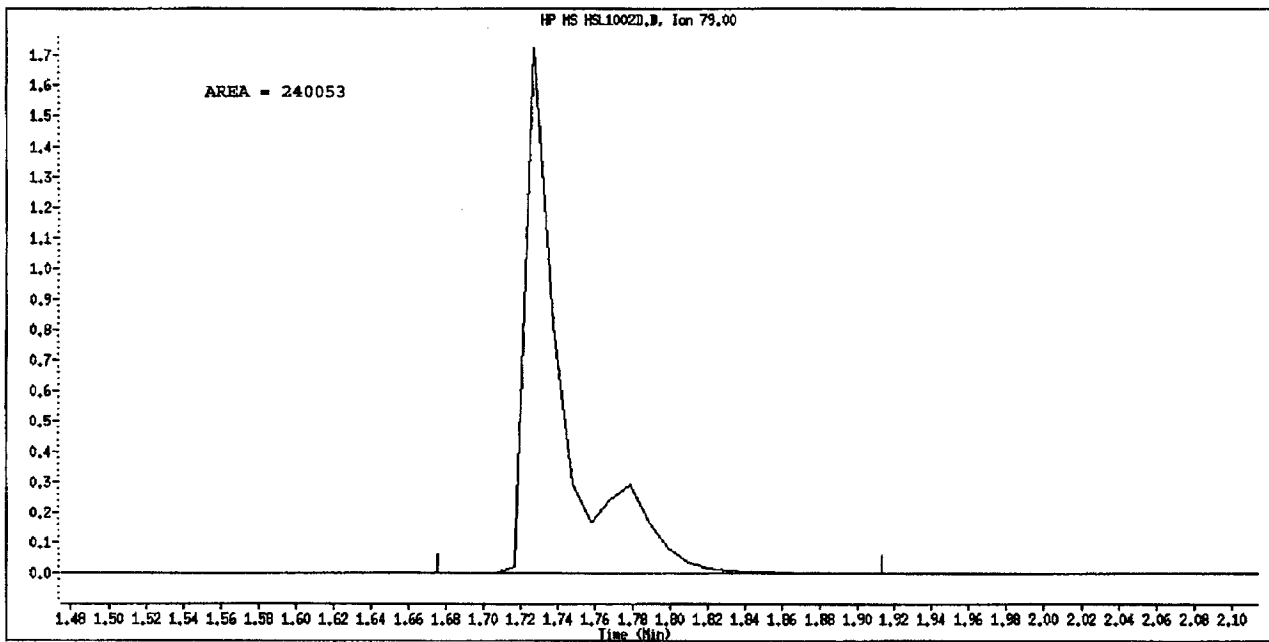
Manual Integration

Manually Integrated By: truongk  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1002D.D  
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Client ID: 8270F.M  
Compound Name: Pyridine  
CAS #: 110-86-1  
Report Date: 10/03/2010



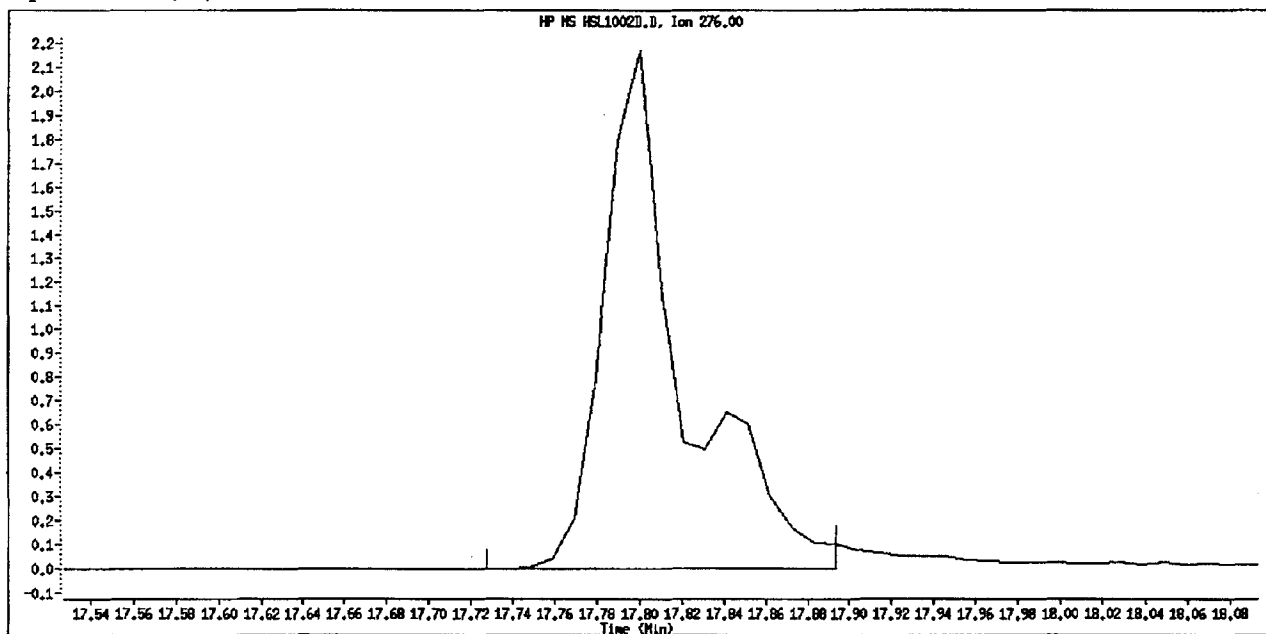
Original Integration



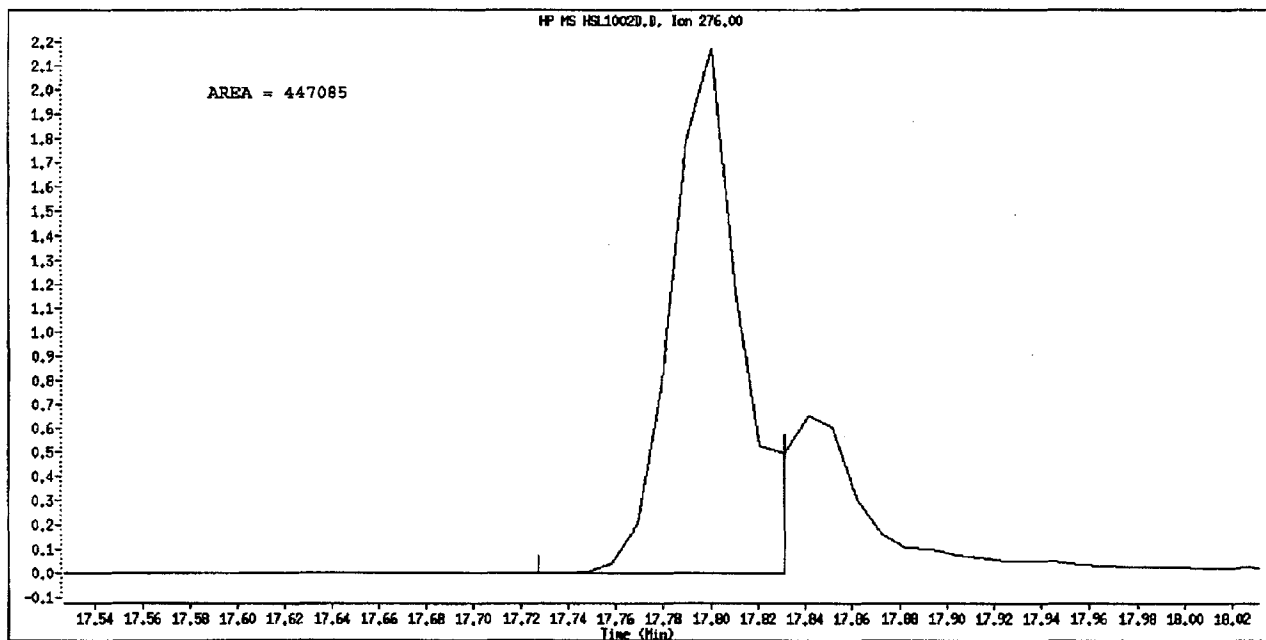
Manual Integration

Manually Integrated By: truongk  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL1002D.D  
Inj. Date and Time: 02-OCT-2010 13:44  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk  
Manual Integration Reason: Poor Chromatography



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002D.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 13:44  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml CS-4;1;;4;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0310;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 4 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

| Compounds                       | QUANT | SIG |        |        |         |        | AMOUNTS  |                  |
|---------------------------------|-------|-----|--------|--------|---------|--------|----------|------------------|
|                                 |       |     | MASS   | RT     | EXP RT  | REL RT | RESPONSE | CAL-AMT<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152   |     | 3.955  | 3.955  | (1.000) | 122625 | 40.0000  |                  |
| * 2 Naphthalene-d8              | 136   |     | 5.374  | 5.374  | (1.000) | 530514 | 40.0000  |                  |
| * 3 Acenaphthene-d10            | 164   |     | 7.468  | 7.468  | (1.000) | 282538 | 40.0000  |                  |
| * 4 Phenanthrene-d10            | 188   |     | 9.405  | 9.405  | (1.000) | 462722 | 40.0000  |                  |
| * 5 Chrysene-d12                | 240   |     | 13.779 | 13.779 | (1.000) | 435850 | 40.0000  |                  |
| * 6 Perylene-d12                | 264   |     | 16.162 | 16.162 | (1.000) | 422284 | 40.0000  |                  |
| \$ 7 2-Fluorophenol             | 112   |     | 2.732  | 2.732  | (0.691) | 220986 | 50.0000  | 48.83            |
| \$ 8 Phenol-d5                  | 99    |     | 3.613  | 3.613  | (0.914) | 274382 | 50.0000  | 47.67            |
| \$ 9 2-Chlorophenol-d4          | 132   |     | 3.758  | 3.758  | (0.950) | 244352 | 50.0000  | 49.80            |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 4.162  | 4.162  | (1.052) | 151616 | 50.0000  | 49.50            |
| \$ 11 Nitrobenzene-d5           | 82    |     | 4.576  | 4.576  | (0.852) | 226162 | 50.0000  | 48.07            |
| \$ 12 2-Fluorobiphenyl          | 172   |     | 6.680  | 6.680  | (0.895) | 473978 | 50.0000  | 52.38            |
| \$ 13 2,4,6-Tribromophenol      | 330   |     | 8.473  | 8.473  | (1.135) | 63311  | 50.0000  | 56.75            |
| \$ 14 Terphenyl-d14             | 244   |     | 12.017 | 12.017 | (0.872) | 438253 | 50.0000  | 51.56            |
| 15 N-Nitrosodimethylamine       | 74    |     | 1.706  | 1.706  | (0.431) | 105836 | 50.0000  | 35.43            |
| 16 Pyridine                     | 79    |     | 1.726  | 1.726  | (0.437) | 182664 | 50.0000  | 36.70            |
| 23 Aniline                      | 93    |     | 3.654  | 3.654  | (0.924) | 346504 | 50.0000  | 48.01            |
| 24 Phenol                       | 94    |     | 3.623  | 3.623  | (0.916) | 311820 | 50.0000  | 50.94            |
| 26 Bis(2-chloroethyl)ether      | 93    |     | 3.716  | 3.716  | (0.940) | 220455 | 50.0000  | 47.40            |
| 27 2-Chlorophenol               | 128   |     | 3.768  | 3.768  | (0.953) | 242442 | 50.0000  | 50.05            |
| 28 1,3-Dichlorobenzene          | 146   |     | 3.923  | 3.923  | (0.992) | 265384 | 50.0000  | 49.58            |
| 29 1,4-Dichlorobenzene          | 146   |     | 3.975  | 3.975  | (1.005) | 271151 | 50.0000  | 50.11            |
| 30 Benzyl Alcohol               | 108   |     | 4.120  | 4.120  | (1.042) | 160914 | 50.0000  | 48.35            |
| 31 1,2-Dichlorobenzene          | 146   |     | 4.172  | 4.172  | (1.055) | 257606 | 50.0000  | 50.23            |
| 32 2-Methylphenol               | 108   |     | 4.255  | 4.255  | (1.076) | 218610 | 50.0000  | 48.31            |
| 33 2,2'-oxybis(1-Chloropropane) | 45    |     | 4.297  | 4.297  | (1.086) | 349371 | 50.0000  | 40.48            |
| 34 4-Methylphenol               | 108   |     | 4.421  | 4.421  | (1.118) | 233354 | 50.0000  | 48.39            |
| 36 Hexachloroethane             | 117   |     | 4.504  | 4.504  | (1.139) | 94106  | 50.0000  | 49.29            |
| 37 N-Nitrosodipropylamine       | 70    |     | 4.442  | 4.442  | (1.123) | 156914 | 50.0000  | 46.48            |
| 42 Nitrobenzene                 | 77    |     | 4.597  | 4.597  | (0.855) | 219387 | 50.0000  | 46.91            |
| 44 Isophorone                   | 82    |     | 4.856  | 4.856  | (0.904) | 420061 | 50.0000  | 47.38            |
| 45 2-Nitrophenol                | 139   |     | 4.960  | 4.960  | (0.923) | 132771 | 50.0000  | 52.00            |
| 46 2,4-Dimethylphenol           | 107   |     | 5.012  | 5.012  | (0.933) | 231517 | 50.0000  | 48.84            |

| Compounds                      | QUANT SIG |        |        | AMOUNTS |          |                  |                 |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis (2-chloroethoxy)methane | 93        | 5.126  | 5.126  | (0.954) | 253648   | 50.0000          | 48.05           |
| 49 2,4-Dichlorophenol          | 162       | 5.229  | 5.229  | (0.973) | 179296   | 50.0000          | 51.39           |
| 50 Benzoic Acid                | 122       | 5.115  | 5.115  | (0.952) | 128366   | 50.0000          | 48.58           |
| 51 1,2,4-Trichlorobenzene      | 180       | 5.322  | 5.322  | (0.990) | 197265   | 50.0000          | 52.15           |
| 52 Naphthalene                 | 128       | 5.395  | 5.395  | (1.004) | 724980   | 50.0000          | 49.10           |
| 54 4-Chloroaniline             | 127       | 5.488  | 5.488  | (1.021) | 291184   | 50.0000          | 50.12           |
| 57 Hexachlorobutadiene         | 225       | 5.613  | 5.613  | (1.044) | 95592    | 50.0000          | 53.11           |
| 60 4-Chloro-3-Methylphenol     | 107       | 6.069  | 6.069  | (1.129) | 205388   | 50.0000          | 51.16           |
| 63 2-Methylnaphthalene         | 142       | 6.203  | 6.203  | (1.154) | 464646   | 50.0000          | 51.57           |
| 66 Hexachlorocyclopentadiene   | 237       | 6.483  | 6.483  | (0.868) | 104908   | 50.0000          | 48.68           |
| 69 2,4,6-Trichlorophenol       | 196       | 6.576  | 6.576  | (0.881) | 113001   | 50.0000          | 52.83           |
| 70 2,4,5-Trichlorophenol       | 196       | 6.628  | 6.628  | (0.888) | 128196   | 50.0000          | 54.56           |
| 71 2-Chloronaphthalene         | 162       | 6.784  | 6.784  | (0.908) | 403257   | 50.0000          | 50.91           |
| 73 2-Nitroaniline              | 65        | 6.949  | 6.949  | (0.931) | 124335   | 50.0000          | 46.87           |
| 76 Dimethylphthalate           | 163       | 7.229  | 7.229  | (0.968) | 475258   | 50.0000          | 51.95           |
| 77 Acenaphthylene              | 152       | 7.281  | 7.281  | (0.975) | 712158   | 50.0000          | 51.43           |
| 79 2,6-Dinitrotoluene          | 165       | 7.302  | 7.302  | (0.978) | 110261   | 50.0000          | 53.82           |
| 80 3-Nitroaniline              | 138       | 7.447  | 7.447  | (0.997) | 141396   | 50.0000          | 52.05           |
| 81 Acenaphthene                | 153       | 7.509  | 7.509  | (1.006) | 448691   | 50.0000          | 50.85           |
| 82 2,4-Dinitrophenol           | 184       | 7.571  | 7.571  | (1.014) | 58864    | 50.0000          | 48.70           |
| 83 Dibenzofuran                | 168       | 7.706  | 7.706  | (1.032) | 598735   | 50.0000          | 51.36           |
| 84 4-Nitrophenol               | 109       | 7.675  | 7.675  | (1.028) | 56777    | 50.0000          | 47.87           |
| 86 2,4-Dinitrotoluene          | 165       | 7.768  | 7.768  | (1.040) | 148875   | 50.0000          | 54.24           |
| 91 Fluorene                    | 166       | 8.131  | 8.131  | (1.089) | 494097   | 50.0000          | 51.73           |
| 92 Diethylphthalate            | 149       | 8.100  | 8.100  | (1.085) | 487067   | 50.0000          | 50.93           |
| 93 4-Chlorophenyl-phenylether  | 204       | 8.152  | 8.152  | (1.092) | 209308   | 50.0000          | 53.15           |
| 94 4-Nitroaniline              | 138       | 8.214  | 8.214  | (1.100) | 135397   | 50.0000          | 50.99           |
| 97 4,6-Dinitro-2-methylphenol  | 198       | 8.276  | 8.276  | (0.880) | 76137    | 50.0000          | 46.45           |
| 98 N-Nitrosodiphenylamine      | 169       | 8.317  | 8.317  | (0.884) | 409666   | 58.6000          | 56.82           |
| 100 Azobenzene                 | 77        | 8.348  | 8.348  | (0.888) | 459960   | 50.0000          | 45.85           |
| 101 4-Bromophenyl-phenylether  | 248       | 8.794  | 8.794  | (0.935) | 115283   | 50.0000          | 51.56           |
| 108 Hexachlorobenzene          | 284       | 8.981  | 8.981  | (0.955) | 124963   | 50.0000          | 51.74           |
| 110 Pentachlorophenol          | 266       | 9.240  | 9.240  | (0.982) | 67882    | 50.0000          | 46.83           |
| 114 Phenanthrene               | 178       | 9.437  | 9.437  | (1.003) | 718164   | 50.0000          | 49.76           |
| 115 Anthracene                 | 178       | 9.499  | 9.499  | (1.010) | 728681   | 50.0000          | 50.17           |
| 118 Carbazole                  | 167       | 9.768  | 9.768  | (1.039) | 660885   | 50.0000          | 48.92           |
| 120 Di-n-Butylphthalate        | 149       | 10.463 | 10.463 | (1.112) | 799142   | 50.0000          | 48.91           |
| 126 Fluoranthene               | 202       | 11.302 | 11.302 | (1.202) | 639252   | 50.0000          | 49.21           |
| 127 Benzidine                  | 184       | 11.571 | 11.571 | (0.840) | 450332   | 50.0000          | 50.32           |
| 128 Pyrene                     | 202       | 11.665 | 11.665 | (0.847) | 701084   | 50.0000          | 51.44           |
| 134 3,3'-dimethylbenzidine     | 212       | 12.867 | 12.867 | (0.934) | 385489   | 50.0000          | 50.19           |
| 136 Butylbenzylphthalate       | 149       | 12.991 | 12.991 | (0.943) | 340978   | 50.0000          | 48.97           |
| 138 Benzo (a) Anthracene       | 228       | 13.758 | 13.758 | (0.998) | 569271   | 50.0000          | 49.51           |
| 139 Chrysene                   | 228       | 13.831 | 13.831 | (1.004) | 597685   | 50.0000          | 50.03           |
| 140 3,3'-Dichlorobenzidine     | 252       | 13.799 | 13.799 | (1.002) | 217413   | 50.0000          | 51.67           |
| 141 bis(2-ethylhexyl)Phthalate | 149       | 14.110 | 14.110 | (1.024) | 464144   | 50.0000          | 48.41           |
| 142 Di-n-octylphthalate        | 149       | 15.167 | 15.167 | (1.101) | 732406   | 50.0000          | 47.78           |
| 144 Benzo (b) fluoranthene     | 252       | 15.582 | 15.582 | (0.964) | 527487   | 50.0000          | 52.68           |
| 145 Benzo (k) fluoranthene     | 252       | 15.623 | 15.623 | (0.967) | 580084   | 50.0000          | 49.57           |
| 147 Benzo (e) pyrene           | 252       | 16.007 | 16.007 | (0.990) | 506622   | 50.0000          | 51.04           |
| 148 Benzo (a) pyrene           | 252       | 16.079 | 16.079 | (0.995) | 542578   | 50.0000          | 49.78           |
| 151 Indeno (1,2,3-cd) pyrene   | 276       | 17.800 | 17.800 | (1.101) | 564014   | 50.0000          | 58.49           |
| 152 Dibenzo (a,h) anthracene   | 278       | 17.841 | 17.841 | (1.104) | 486893   | 50.0000          | 49.27           |
| 153 Benzo (g,h,i) perylene     | 276       | 18.235 | 18.235 | (1.128) | 527720   | 50.0000          | 49.81           |

| Compounds                           | QUANT SIG |  |       |        |        |          | AMOUNTS          |                 |
|-------------------------------------|-----------|--|-------|--------|--------|----------|------------------|-----------------|
|                                     | MASS      |  | RT    | EXP RT | REL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| -----                               | ----      |  | ----- | -----  | -----  | -----    | -----            | -----           |
| M 162 benzo b,k Fluoranthene Totals | 252       |  |       |        |        | 1107571  | 50.0000          | 51.00 (A)       |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002D.D  
 Lab Smp Id: HSL 050 ug/ml CS-4  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

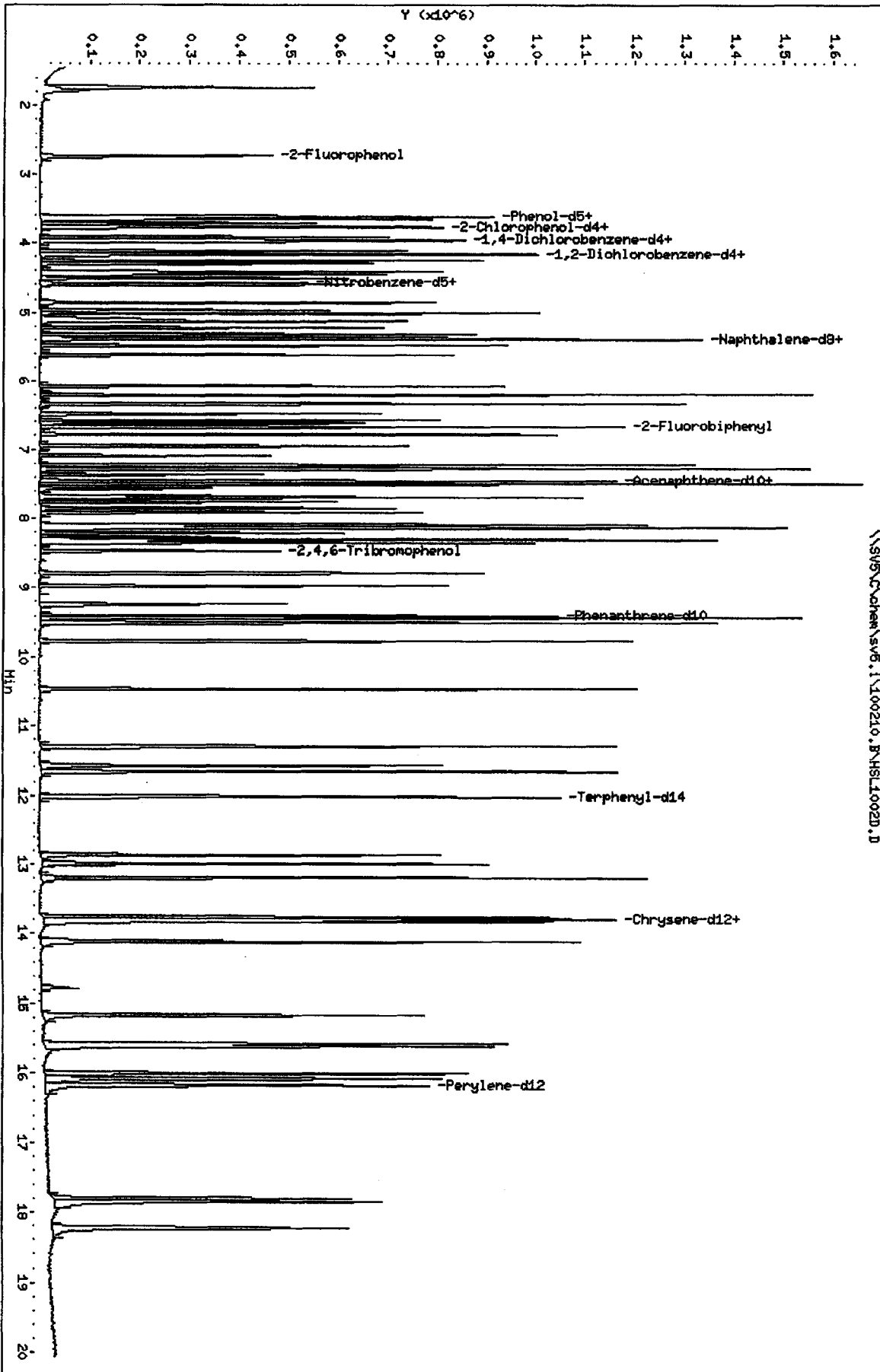
| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 122625 | 0.00  |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 530514 | 0.00  |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 282538 | 0.00  |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 462722 | 0.00  |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 435850 | 0.00  |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 422284 | 0.00  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.96     | 3.46     | 4.46  | 3.96   | 0.00  |
| 2 Naphthalene-d8    | 5.37     | 4.87     | 5.87  | 5.37   | 0.00  |
| 3 Acenaphthene-d10  | 7.47     | 6.97     | 7.97  | 7.47   | 0.00  |
| 4 Phenanthrene-d10  | 9.41     | 8.91     | 9.91  | 9.41   | 0.00  |
| 5 Chrysene-d12      | 13.78    | 13.28    | 14.28 | 13.78  | 0.00  |
| 6 Perylene-d12      | 16.16    | 15.66    | 16.66 | 16.16  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SWS\C\chem\sv5.1\100210.B\HSL1002D.D  
Date: 02-OCT-2010 13:44  
Client ID: 8270F.H  
Sample Info: HSL\_050 ug/ml CS-411;411;4  
Column phase:

Instrument: sv5.1  
Operator: KT  
Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002E.D  
 Lab Smp Id: HSL 080 ug/ml CS-5 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 14:09  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 080 ug/ml CS-5;1;;5;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0311;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 5 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

| Compounds                       | QUANT | SIG | AMOUNTS |        |         |        | ON-COL  |          |
|---------------------------------|-------|-----|---------|--------|---------|--------|---------|----------|
|                                 |       |     | MASS    | RT     | EXP RT  | REL RT |         | RESPONSE |
| * 1 1,4-Dichlorobenzene-d4      | 152   |     | 3.954   | 3.955  | (1.000) | 126989 | 40.0000 | (q)      |
| * 2 Naphthalene-d8              | 136   |     | 5.374   | 5.374  | (1.000) | 553454 | 40.0000 |          |
| * 3 Acenaphthene-d10            | 164   |     | 7.468   | 7.468  | (1.000) | 300315 | 40.0000 |          |
| * 4 Phenanthrene-d10            | 188   |     | 9.405   | 9.405  | (1.000) | 477777 | 40.0000 |          |
| * 5 Chrysene-d12                | 240   |     | 13.789  | 13.779 | (1.000) | 486126 | 40.0000 |          |
| * 6 Perylene-d12                | 264   |     | 16.162  | 16.162 | (1.000) | 482782 | 40.0000 |          |
| \$ 7 2-Fluorophenol             | 112   |     | 2.742   | 2.732  | (0.693) | 364547 | 80.0000 | 81.44    |
| \$ 8 Phenol-d5                  | 99    |     | 3.612   | 3.613  | (0.914) | 459352 | 80.0000 | 81.61    |
| \$ 9 2-Chlorophenol-d4          | 132   |     | 3.758   | 3.758  | (0.950) | 399981 | 80.0000 | 80.92    |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 4.162   | 4.162  | (1.052) | 252754 | 80.0000 | 80.82    |
| \$ 11 Nitrobenzene-d5           | 82    |     | 4.587   | 4.576  | (0.853) | 371989 | 80.0000 | 79.35    |
| \$ 12 2-Fluorobiphenyl          | 172   |     | 6.680   | 6.680  | (0.895) | 755916 | 80.0000 | 78.14    |
| \$ 13 2,4,6-Tribromophenol      | 330   |     | 8.483   | 8.473  | (1.136) | 107063 | 80.0000 | 82.04    |
| \$ 14 Terphenyl-d14             | 244   |     | 12.017  | 12.017 | (0.871) | 758812 | 80.0000 | 79.25    |
| 15 N-Nitrosodimethylamine       | 74    |     | 1.706   | 1.706  | (0.431) | 236570 | 80.0000 | 80.86(q) |
| 16 Pyridine                     | 79    |     | 1.726   | 1.726  | (0.437) | 386806 | 80.0000 | 79.06(Q) |
| 23 Aniline                      | 93    |     | 3.654   | 3.654  | (0.924) | 583513 | 80.0000 | 81.44(Q) |
| 24 Phenol                       | 94    |     | 3.623   | 3.623  | (0.916) | 524930 | 80.0000 | 81.16(Q) |
| 26 Bis(2-chloroethyl) ether     | 93    |     | 3.716   | 3.716  | (0.940) | 362044 | 80.0000 | 79.83    |
| 27 2-Chlorophenol               | 128   |     | 3.768   | 3.768  | (0.953) | 398210 | 80.0000 | 80.21    |
| 28 1,3-Dichlorobenzene          | 146   |     | 3.923   | 3.923  | (0.992) | 428311 | 80.0000 | 79.20    |
| 29 1,4-Dichlorobenzene          | 146   |     | 3.975   | 3.975  | (1.005) | 452588 | 80.0000 | 80.04    |
| 30 Benzyl Alcohol               | 108   |     | 4.120   | 4.120  | (1.042) | 273768 | 80.0000 | 82.05    |
| 31 1,2-Dichlorobenzene          | 146   |     | 4.172   | 4.172  | (1.055) | 415025 | 80.0000 | 79.84    |
| 32 2-Methylphenol               | 108   |     | 4.255   | 4.255  | (1.076) | 369704 | 80.0000 | 81.43    |
| 33 2,2'-oxybis(1-Chloropropane) | 45    |     | 4.296   | 4.297  | (1.086) | 576575 | 80.0000 | 79.88    |
| 34 4-Methylphenol               | 108   |     | 4.421   | 4.421  | (1.118) | 387704 | 80.0000 | 80.39    |
| 36 Hexachloroethane             | 117   |     | 4.504   | 4.504  | (1.139) | 153472 | 80.0000 | 79.72    |
| 37 N-Nitrosodipropylamine       | 70    |     | 4.442   | 4.442  | (1.123) | 265916 | 80.0000 | 82.78    |
| 42 Nitrobenzene                 | 77    |     | 4.597   | 4.597  | (0.855) | 369479 | 80.0000 | 80.64    |
| 44 Isophorone                   | 82    |     | 4.856   | 4.856  | (0.904) | 704520 | 80.0000 | 79.96    |
| 45 2-Nitrophenol                | 139   |     | 4.960   | 4.960  | (0.923) | 221628 | 80.0000 | 81.52    |
| 46 2,4-Dimethylphenol           | 107   |     | 5.011   | 5.012  | (0.933) | 385073 | 80.0000 | 79.72    |

10-3-10

| Compounds                      | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane  | 93        | 5.125  | 5.126  | (0.954) | 426158   | 80.0000          | 79.16           |
| 49 2,4-Dichlorophenol          | 162       | 5.229  | 5.229  | (0.973) | 301897   | 80.0000          | 80.78           |
| 50 Benzoic Acid                | 122       | 5.125  | 5.115  | (0.954) | 232711   | 80.0000          | 87.04           |
| 51 1,2,4-Trichlorobenzene      | 180       | 5.322  | 5.322  | (0.990) | 323096   | 80.0000          | 79.84           |
| 52 Naphthalene                 | 128       | 5.395  | 5.395  | (1.004) | 1216155  | 80.0000          | 79.58           |
| 54 4-Chloroaniline             | 127       | 5.488  | 5.488  | (1.021) | 484619   | 80.0000          | 80.91           |
| 57 Hexachlorobutadiene         | 225       | 5.613  | 5.613  | (1.044) | 159233   | 80.0000          | 80.41           |
| 60 4-Chloro-3-Methylphenol     | 107       | 6.069  | 6.069  | (1.129) | 335335   | 80.0000          | 80.35           |
| 63 2-Methylnaphthalene         | 142       | 6.203  | 6.203  | (1.154) | 781029   | 80.0000          | 81.36           |
| 66 Hexachlorocyclopentadiene   | 237       | 6.483  | 6.483  | (0.868) | 181608   | 80.0000          | 81.05           |
| 69 2,4,6-Trichlorophenol       | 196       | 6.576  | 6.576  | (0.881) | 194036   | 80.0000          | 80.98           |
| 70 2,4,5-Trichlorophenol       | 196       | 6.628  | 6.628  | (0.888) | 211635   | 80.0000          | 81.99           |
| 71 2-Chloronaphthalene         | 162       | 6.784  | 6.784  | (0.908) | 668023   | 80.0000          | 79.04           |
| 73 2-Nitroaniline              | 65        | 6.949  | 6.949  | (0.931) | 209144   | 80.0000          | 81.65           |
| 76 Dimethylphthalate           | 163       | 7.229  | 7.229  | (0.968) | 787815   | 80.0000          | 80.96           |
| 77 Acenaphthylene              | 152       | 7.281  | 7.281  | (0.975) | 1190475  | 80.0000          | 80.88           |
| 79 2,6-Dinitrotoluene          | 165       | 7.302  | 7.302  | (0.978) | 187961   | 80.0000          | 82.91           |
| 80 3-Nitroaniline              | 138       | 7.457  | 7.447  | (0.999) | 232287   | 80.0000          | 82.09           |
| 81 Acenaphthene                | 153       | 7.509  | 7.509  | (1.006) | 727612   | 80.0000          | 77.66           |
| 82 2,4-Dinitrophenol           | 184       | 7.571  | 7.572  | (1.014) | 110384   | 80.0000          | 78.64           |
| 83 Dibenzofuran                | 168       | 7.706  | 7.706  | (1.032) | 991740   | 80.0000          | 79.76 (q)       |
| 84 4-Nitrophenol               | 109       | 7.675  | 7.675  | (1.028) | 102888   | 80.0000          | 87.65 (Q)       |
| 86 2,4-Dinitrotoluene          | 165       | 7.768  | 7.768  | (1.040) | 246471   | 80.0000          | 82.83           |
| 91 Fluorene                    | 166       | 8.131  | 8.131  | (1.089) | 834271   | 80.0000          | 81.03           |
| 92 Diethylphthalate            | 149       | 8.100  | 8.100  | (1.085) | 792071   | 80.0000          | 79.50           |
| 93 4-Chlorophenyl-phenylether  | 204       | 8.151  | 8.152  | (1.092) | 340608   | 80.0000          | 79.56           |
| 94 4-Nitroaniline              | 138       | 8.224  | 8.214  | (1.101) | 235541   | 80.0000          | 83.97           |
| 97 4,6-Dinitro-2-methylphenol  | 198       | 8.276  | 8.276  | (0.880) | 134784   | 80.0000          | 76.76           |
| 98 N-Nitrosodiphenylamine      | 169       | 8.317  | 8.317  | (0.884) | 695826   | 93.7000          | 96.08           |
| 100 Azobenzene                 | 77        | 8.348  | 8.348  | (0.888) | 765053   | 80.0000          | 81.43           |
| 101 4-Bromophenyl-phenylether  | 248       | 8.794  | 8.794  | (0.935) | 187352   | 80.0000          | 80.33           |
| 108 Hexachlorobenzene          | 284       | 8.981  | 8.981  | (0.955) | 207655   | 80.0000          | 79.72           |
| 110 Pentachlorophenol          | 266       | 9.240  | 9.240  | (0.982) | 126397   | 80.0000          | 78.86           |
| 114 Phenanthrene               | 178       | 9.437  | 9.437  | (1.003) | 1188468  | 80.0000          | 78.92           |
| 115 Anthracene                 | 178       | 9.509  | 9.499  | (1.011) | 1218608  | 80.0000          | 81.00           |
| 118 Carbazole                  | 167       | 9.768  | 9.768  | (1.039) | 1118637  | 80.0000          | 81.39           |
| 120 Di-n-Butylphthalate        | 149       | 10.462 | 10.463 | (1.112) | 1351860  | 80.0000          | 81.75           |
| 126 Fluoranthene               | 202       | 11.302 | 11.302 | (1.202) | 1107116  | 80.0000          | 82.05           |
| 127 Benzidine                  | 184       | 11.571 | 11.571 | (0.839) | 799205   | 80.0000          | 81.12           |
| 128 Pyrene                     | 202       | 11.665 | 11.665 | (0.846) | 1221015  | 80.0000          | 80.36           |
| 134 3,3'-dimethylbenzidine     | 212       | 12.867 | 12.867 | (0.933) | 715866   | 80.0000          | 82.31           |
| 136 Butylbenzylphthalate       | 149       | 12.991 | 12.991 | (0.942) | 598812   | 80.0000          | 78.63           |
| 138 Benzo(a)Anthracene         | 228       | 13.758 | 13.758 | (0.998) | 1034950  | 80.0000          | 79.92           |
| 139 Chrysene                   | 228       | 13.830 | 13.831 | (1.003) | 1040163  | 80.0000          | 78.52           |
| 140 3,3'-Dichlorobenzidine     | 252       | 13.799 | 13.799 | (1.001) | 392335   | 80.0000          | 80.33           |
| 141 bis(2-ethylhexyl)Phthalate | 149       | 14.110 | 14.110 | (1.023) | 820296   | 80.0000          | 78.20           |
| 142 Di-n-octylphthalate        | 149       | 15.167 | 15.167 | (1.100) | 1354893  | 80.0000          | 80.80           |
| 144 Benzo(b)fluoranthene       | 252       | 15.582 | 15.582 | (0.964) | 920884   | 80.0000          | 84.26 (Q)       |
| 145 Benzo(k)fluoranthene       | 252       | 15.623 | 15.623 | (0.967) | 1102899  | 80.0000          | 78.61 (q)       |
| 147 Benzo(e)pyrene             | 252       | 16.007 | 16.007 | (0.990) | 936566   | 80.0000          | 82.18           |
| 148 Benzo(a)pyrene             | 252       | 16.079 | 16.079 | (0.995) | 1039045  | 80.0000          | 83.86           |
| 151 Indeno(1,2,3-cd)pyrene     | 276       | 17.799 | 17.800 | (1.101) | 811625   | 80.0000          | 80.99           |
| 152 Dibenzo(a,h)anthracene     | 278       | 17.851 | 17.841 | (1.105) | 926841   | 80.0000          | 82.79           |
| 153 Benzo(g,h,i)perylene       | 276       | 18.235 | 18.235 | (1.128) | 982275   | 80.0000          | 81.04           |

| Compounds                           | QUANT SIG |    | AMOUNTS |        |          |                  |                 |
|-------------------------------------|-----------|----|---------|--------|----------|------------------|-----------------|
|                                     | MASS      | RT | EXP RT  | REL RT | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| M 162 benzo b,k Fluoranthene Totals | 252       |    |         |        | 2023783  | 80.0000          | 81.09 (A)       |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002E.D  
 Lab Smp Id: HSL\_080 ug/ml CS-5 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 14:09  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_080 ug/ml CS-5;1;;5;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0311;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 5 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

| Compounds                       | QUANT SIG | RT     | EXP RT         | REL RT | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-----------|--------|----------------|--------|----------|------------------|-----------------|
|                                 |           |        |                |        |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 3.954  | 3.955 (1.000)  | 126989 | 40.0000  |                  | (g)             |
| * 2 Naphthalene-d8              | 136       | 5.374  | 5.374 (1.000)  | 553454 | 40.0000  |                  |                 |
| * 3 Acenaphthene-d10            | 164       | 7.468  | 7.468 (1.000)  | 300315 | 40.0000  |                  |                 |
| * 4 Phenanthrene-d10            | 188       | 9.405  | 9.405 (1.000)  | 477777 | 40.0000  |                  |                 |
| * 5 Chrysene-d12                | 240       | 13.789 | 13.779 (1.000) | 486126 | 40.0000  |                  |                 |
| * 6 Perylene-d12                | 264       | 16.162 | 16.162 (1.000) | 482782 | 40.0000  |                  |                 |
| \$ 7 2-Fluorophenol             | 112       | 2.742  | 2.732 (0.693)  | 364547 | 80.0000  |                  | 77.78           |
| \$ 8 Phenol-d5                  | 99        | 3.612  | 3.613 (0.914)  | 459352 | 80.0000  |                  | 77.07           |
| \$ 9 2-Chlorophenol-d4          | 132       | 3.758  | 3.758 (0.950)  | 399981 | 80.0000  |                  | 78.71           |
| \$ 10 1,2-Dichlorobenzene-d4    | 152       | 4.162  | 4.162 (1.052)  | 252754 | 80.0000  |                  | 79.68           |
| \$ 11 Nitrobenzene-d5           | 82        | 4.587  | 4.576 (0.853)  | 371989 | 80.0000  |                  | 75.79           |
| \$ 12 2-Fluorobiphenyl          | 172       | 6.680  | 6.680 (0.895)  | 755916 | 80.0000  |                  | 78.58           |
| \$ 13 2,4,6-Tribromophenol      | 330       | 8.483  | 8.473 (1.136)  | 107063 | 80.0000  |                  | 90.29           |
| \$ 14 Terphenyl-d14             | 244       | 12.017 | 12.017 (0.871) | 758812 | 80.0000  |                  | 80.04           |
| 15 N-Nitrosodimethylamine       | 74        | 1.706  | 1.706 (0.431)  | 236570 | 80.0000  |                  | 76.48           |
| 16 Pyridine                     | 79        | 1.726  | 1.726 (0.437)  | 386806 | 80.0000  |                  | 75.04           |
| 23 Aniline                      | 93        | 3.654  | 3.654 (0.924)  | 583513 | 80.0000  |                  | 78.07(Q)        |
| 24 Phenol                       | 94        | 3.623  | 3.623 (0.916)  | 524930 | 80.0000  |                  | 82.81(Q)        |
| 26 Bis(2-chloroethyl) ether     | 93        | 3.716  | 3.716 (0.940)  | 362044 | 80.0000  |                  | 75.18           |
| 27 2-Chlorophenol               | 128       | 3.768  | 3.768 (0.953)  | 398210 | 80.0000  |                  | 79.39           |
| 28 1,3-Dichlorobenzene          | 146       | 3.923  | 3.923 (0.992)  | 428311 | 80.0000  |                  | 77.27           |
| 29 1,4-Dichlorobenzene          | 146       | 3.975  | 3.975 (1.005)  | 452588 | 80.0000  |                  | 80.76           |
| 30 Benzyl Alcohol               | 108       | 4.120  | 4.120 (1.042)  | 273768 | 80.0000  |                  | 79.43           |
| 31 1,2-Dichlorobenzene          | 146       | 4.172  | 4.172 (1.055)  | 415025 | 80.0000  |                  | 78.14           |
| 32 2-Methylphenol               | 108       | 4.255  | 4.255 (1.076)  | 369704 | 80.0000  |                  | 78.90           |
| 33 2,2'-oxybis(1-Chloropropane) | 45        | 4.296  | 4.297 (1.086)  | 576575 | 80.0000  |                  | 64.50           |
| 34 4-Methylphenol               | 108       | 4.421  | 4.421 (1.118)  | 387704 | 80.0000  |                  | 77.63           |
| 36 Hexachloroethane             | 117       | 4.504  | 4.504 (1.139)  | 153472 | 80.0000  |                  | 77.62           |
| 37 N-Nitrosodipropylamine       | 70        | 4.442  | 4.442 (1.123)  | 265916 | 80.0000  |                  | 76.06           |
| 42 Nitrobenzene                 | 77        | 4.597  | 4.597 (0.855)  | 369479 | 80.0000  |                  | 75.74           |
| 44 Isophorone                   | 82        | 4.856  | 4.856 (0.904)  | 704520 | 80.0000  |                  | 76.17           |
| 45 2-Nitrophenol                | 139       | 4.960  | 4.960 (0.923)  | 221628 | 80.0000  |                  | 83.21           |
| 46 2,4-Dimethylphenol           | 107       | 5.011  | 5.012 (0.933)  | 385073 | 80.0000  |                  | 77.86           |

| Compounds                      | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|--------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane  | 93        | 5.125  | 5.126  | (0.954) | 426158   | 80.0000          | 77.39           |
| 49 2,4-Dichlorophenol          | 162       | 5.229  | 5.229  | (0.973) | 301897   | 80.0000          | 82.94           |
| 50 Benzoic Acid                | 122       | 5.125  | 5.115  | (0.954) | 232711   | 80.0000          | 84.41           |
| 51 1,2,4-Trichlorobenzene      | 180       | 5.322  | 5.322  | (0.990) | 323096   | 80.0000          | 81.88           |
| 52 Naphthalene                 | 128       | 5.395  | 5.395  | (1.004) | 1216155  | 80.0000          | 78.94           |
| 54 4-Chloroaniline             | 127       | 5.488  | 5.488  | (1.021) | 484619   | 80.0000          | 79.97           |
| 57 Hexachlorobutadiene         | 225       | 5.613  | 5.613  | (1.044) | 159233   | 80.0000          | 84.81           |
| 60 4-Chloro-3-Methylphenol     | 107       | 6.069  | 6.069  | (1.129) | 335335   | 80.0000          | 80.06           |
| 63 2-Methylnaphthalene         | 142       | 6.203  | 6.203  | (1.154) | 781029   | 80.0000          | 83.09           |
| 66 Hexachlorocyclopentadiene   | 237       | 6.483  | 6.483  | (0.868) | 181608   | 80.0000          | 79.29           |
| 69 2,4,6-Trichlorophenol       | 196       | 6.576  | 6.576  | (0.881) | 194036   | 80.0000          | 85.34           |
| 70 2,4,5-Trichlorophenol       | 196       | 6.628  | 6.628  | (0.888) | 211635   | 80.0000          | 84.74           |
| 71 2-Chloronaphthalene         | 162       | 6.784  | 6.784  | (0.908) | 668023   | 80.0000          | 79.34           |
| 73 2-Nitroaniline              | 65        | 6.949  | 6.949  | (0.931) | 209144   | 80.0000          | 74.17           |
| 76 Dimethylphthalate           | 163       | 7.229  | 7.229  | (0.968) | 787815   | 80.0000          | 81.01           |
| 77 Acenaphthylene              | 152       | 7.281  | 7.281  | (0.975) | 1190475  | 80.0000          | 80.88           |
| 79 2,6-Dinitrotoluene          | 165       | 7.302  | 7.302  | (0.978) | 187961   | 80.0000          | 86.31           |
| 80 3-Nitroaniline              | 138       | 7.457  | 7.447  | (0.999) | 232287   | 80.0000          | 80.44           |
| 81 Acenaphthene                | 153       | 7.509  | 7.509  | (1.006) | 727612   | 80.0000          | 77.58           |
| 82 2,4-Dinitrophenol           | 184       | 7.571  | 7.571  | (1.014) | 110384   | 80.0000          | 81.10           |
| 83 Dibenzofuran                | 168       | 7.706  | 7.706  | (1.032) | 991740   | 80.0000          | 80.04 (q)       |
| 84 4-Nitrophenol               | 109       | 7.675  | 7.675  | (1.028) | 102888   | 80.0000          | 81.61 (Q)       |
| 86 2,4-Dinitrotoluene          | 165       | 7.768  | 7.768  | (1.040) | 246471   | 80.0000          | 84.49           |
| 91 Fluorene                    | 166       | 8.131  | 8.131  | (1.089) | 834271   | 80.0000          | 82.18           |
| 92 Diethylphthalate            | 149       | 8.100  | 8.100  | (1.085) | 792071   | 80.0000          | 77.92           |
| 93 4-Chlorophenyl-phenylether  | 204       | 8.151  | 8.152  | (1.092) | 340608   | 80.0000          | 81.38           |
| 94 4-Nitroaniline              | 138       | 8.224  | 8.214  | (1.101) | 235541   | 80.0000          | 83.45           |
| 97 4,6-Dinitro-2-methylphenol  | 198       | 8.276  | 8.276  | (0.880) | 134784   | 80.0000          | 75.96           |
| 98 N-Nitrosodiphenylamine      | 169       | 8.317  | 8.317  | (0.884) | 695826   | 93.7000          | 93.46           |
| 100 Azobenzene                 | 77        | 8.348  | 8.348  | (0.888) | 765053   | 80.0000          | 73.86           |
| 101 4-Bromophenyl-phenylether  | 248       | 8.794  | 8.794  | (0.935) | 187352   | 80.0000          | 81.15           |
| 108 Hexachlorobenzene          | 284       | 8.981  | 8.981  | (0.955) | 207655   | 80.0000          | 83.28           |
| 110 Pentachlorophenol          | 266       | 9.240  | 9.240  | (0.982) | 126397   | 80.0000          | 84.45           |
| 114 Phenanthrene               | 178       | 9.437  | 9.437  | (1.003) | 1188468  | 80.0000          | 79.75           |
| 115 Anthracene                 | 178       | 9.509  | 9.499  | (1.011) | 1218608  | 80.0000          | 81.25           |
| 118 Carbazole                  | 167       | 9.768  | 9.768  | (1.039) | 1118637  | 80.0000          | 80.19           |
| 120 Di-n-Butylphthalate        | 149       | 10.462 | 10.463 | (1.112) | 1351860  | 80.0000          | 80.14           |
| 126 Fluoranthene               | 202       | 11.302 | 11.302 | (1.202) | 1107116  | 80.0000          | 82.54           |
| 127 Benzidine                  | 184       | 11.571 | 11.571 | (0.839) | 799205   | 80.0000          | 80.06           |
| 128 Pyrene                     | 202       | 11.665 | 11.665 | (0.846) | 1221015  | 80.0000          | 80.33           |
| 134 3,3'-dimethylbenzidine     | 212       | 12.867 | 12.867 | (0.933) | 715866   | 80.0000          | 83.56           |
| 136 Butylbenzylphthalate       | 149       | 12.991 | 12.991 | (0.942) | 598812   | 80.0000          | 77.10           |
| 138 Benzo(a)Anthracene         | 228       | 13.758 | 13.758 | (0.998) | 1034950  | 80.0000          | 80.70           |
| 139 Chrysene                   | 228       | 13.830 | 13.831 | (1.003) | 1040163  | 80.0000          | 78.06           |
| 140 3,3'-Dichlorobenzidine     | 252       | 13.799 | 13.799 | (1.001) | 392335   | 80.0000          | 83.60           |
| 141 bis(2-ethylhexyl)Phthalate | 149       | 14.110 | 14.110 | (1.023) | 820296   | 80.0000          | 76.71           |
| 142 Di-n-octylphthalate        | 149       | 15.167 | 15.167 | (1.100) | 1354893  | 80.0000          | 79.24           |
| 144 Benzo(b)fluoranthene       | 252       | 15.582 | 15.582 | (0.964) | 920884   | 80.0000          | 80.44 (Q)       |
| 145 Benzo(k)fluoranthene       | 252       | 15.623 | 15.623 | (0.967) | 1102899  | 80.0000          | 82.44 (q)       |
| 147 Benzo(e)pyrene             | 252       | 16.007 | 16.007 | (0.990) | 936566   | 80.0000          | 82.53           |
| 148 Benzo(a)pyrene             | 252       | 16.079 | 16.079 | (0.995) | 1039045  | 80.0000          | 83.39           |
| 151 Indeno(1,2,3-cd)pyrene     | 276       | 17.799 | 17.800 | (1.101) | 811625   | 80.0000          | 73.62           |
| 152 Dibenzo(a,h)anthracene     | 278       | 17.851 | 17.841 | (1.105) | 926841   | 80.0000          | 82.04           |
| 153 Benzo(g,h,i)perylene       | 276       | 18.235 | 18.235 | (1.128) | 982275   | 80.0000          | 81.10           |

| Compounds                           | QUANT SIG | RT   | EXP RT | REL RT | RESPONSE | AMOUNTS |           |
|-------------------------------------|-----------|------|--------|--------|----------|---------|-----------|
|                                     | MASS      |      |        |        |          | CAL-AMT | ON-COL    |
| -----                               | ----      | ---- | -----  | -----  | -----    | -----   |           |
| M 162 benzo b,k Fluoranthene Totals | 252       |      |        |        | 2023783  | 80.0000 | 81.52 (A) |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 02-OCT-2010  
 Lab File ID: HSL1002E.D Calibration Time: 13:44  
 Lab Smp Id: HSL 080 ug/ml CS-5 Client Smp ID: 8270F.M  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0311;0;8270F.M

Test Mode: Use Initial Calibration Level 4.

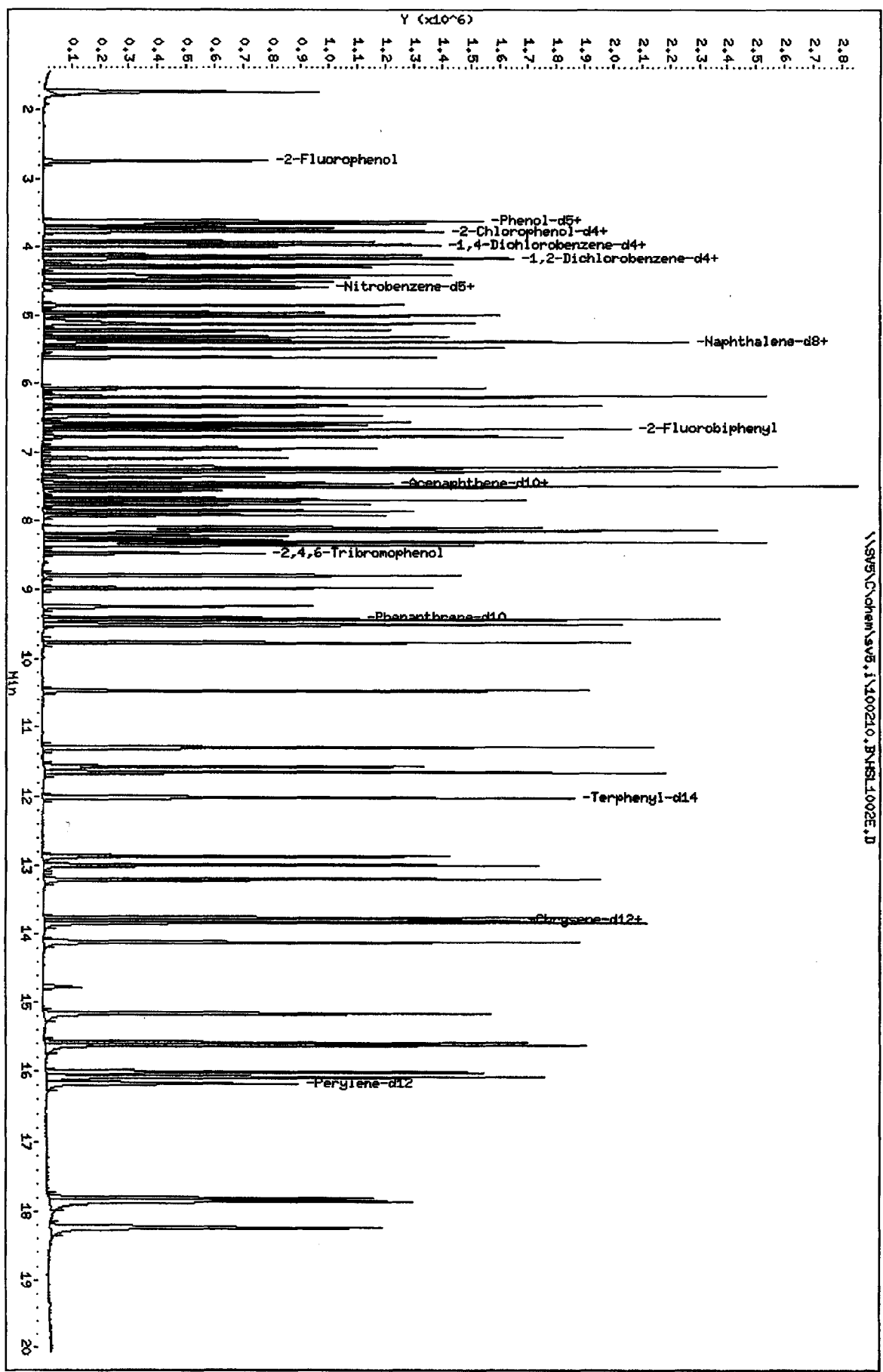
| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 126989 | 3.56  |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 553454 | 4.32  |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 300315 | 6.29  |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 477777 | 3.25  |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 486126 | 11.54 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 482782 | 14.33 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.96     | 3.46     | 4.46  | 3.95   | -0.00 |
| 2 Naphthalene-d8    | 5.37     | 4.87     | 5.87  | 5.37   | -0.00 |
| 3 Acenaphthene-d10  | 7.47     | 6.97     | 7.97  | 7.47   | -0.00 |
| 4 Phenanthrene-d10  | 9.41     | 8.91     | 9.91  | 9.41   | -0.00 |
| 5 Chrysene-d12      | 13.78    | 13.28    | 14.28 | 13.79  | 0.07  |
| 6 Perylene-d12      | 16.16    | 15.66    | 16.66 | 16.16  | -0.00 |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV5\Chem\SV5.1\100210.B\HSL1002E.D  
Date: 02-OCT-2010 14:09  
Client ID: 8270F.M  
Sample Info: HSL\_080 ug/ml CS-5;1;1;5;1;1;1;1;1;1;4  
Column phase:

Instrument: SV5.1  
Operator: KT  
Column diameter: 2.00



\\SV5\Chem\SV5.1\100210.B\HSL1002E.D

TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002F.D  
 Lab Smp Id: HSL\_120 ug/ml CS-6 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 14:35  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_120 ug/ml CS-6;1;;6;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0312;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 6 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

| Compounds                       | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 3.955  | 3.955  | (1.000) | 137751   | 40.0000          | (Q)             |
| * 2 Naphthalene-d8              | 136       | 5.374  | 5.374  | (1.000) | 591665   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164       | 7.468  | 7.468  | (1.000) | 322596   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188       | 9.406  | 9.405  | (1.000) | 515607   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240       | 13.789 | 13.779 | (1.000) | 509570   | 40.0000          |                 |
| * 6 Perylene-d12                | 264       | 16.173 | 16.162 | (1.000) | 539588   | 40.0000          |                 |
| \$ 7 2-Fluorophenol             | 112       | 2.732  | 2.732  | (0.691) | 588028   | 120.000          | 121.1           |
| \$ 8 Phenol-d5                  | 99        | 3.613  | 3.613  | (0.914) | 759824   | 120.000          | 124.4           |
| \$ 9 2-Chlorophenol-d4          | 132       | 3.758  | 3.758  | (0.950) | 652805   | 120.000          | 121.7           |
| \$ 10 1,2-Dichlorobenzene-d4    | 152       | 4.162  | 4.162  | (1.052) | 407247   | 120.000          | 120.0           |
| \$ 11 Nitrobenzene-d5           | 82        | 4.587  | 4.576  | (0.853) | 623501   | 120.000          | 124.4           |
| \$ 12 2-Fluorobiphenyl          | 172       | 6.680  | 6.680  | (0.895) | 1255441  | 120.000          | 120.8           |
| \$ 13 2,4,6-Tribromophenol      | 330       | 8.483  | 8.473  | (1.136) | 179055   | 120.000          | 127.7           |
| \$ 14 Terphenyl-d14             | 244       | 12.017 | 12.017 | (0.871) | 1251844  | 120.000          | 124.7           |
| 15 N-Nitrosodimethylamine       | 74        | 1.706  | 1.706  | (0.431) | 388111   | 120.000          | 122.3(Q)        |
| 16 Pyridine                     | 79        | 1.727  | 1.726  | (0.437) | 633334   | 120.000          | 119.3(Q)        |
| 23 Aniline                      | 93        | 3.654  | 3.654  | (0.924) | 964533   | 120.000          | 124.1(Q)        |
| 24 Phenol                       | 94        | 3.623  | 3.623  | (0.916) | 851671   | 120.000          | 121.4(Q)        |
| 26 Bis(2-chloroethyl) ether     | 93        | 3.716  | 3.716  | (0.940) | 596323   | 120.000          | 121.2           |
| 27 2-Chlorophenol               | 128       | 3.768  | 3.768  | (0.953) | 653244   | 120.000          | 121.3           |
| 28 1,3-Dichlorobenzene          | 146       | 3.924  | 3.923  | (0.992) | 712032   | 120.000          | 121.4           |
| 29 1,4-Dichlorobenzene          | 146       | 3.975  | 3.975  | (1.005) | 740915   | 120.000          | 120.8           |
| 30 Benzyl Alcohol               | 108       | 4.120  | 4.120  | (1.042) | 450249   | 120.000          | 124.4           |
| 31 1,2-Dichlorobenzene          | 146       | 4.172  | 4.172  | (1.055) | 679448   | 120.000          | 120.5           |
| 32 2-Methylphenol               | 108       | 4.255  | 4.255  | (1.076) | 603987   | 120.000          | 122.6           |
| 33 2,2'-oxybis(1-Chloropropane) | 45        | 4.297  | 4.297  | (1.086) | 941514   | 120.000          | 120.2           |
| 34 4-Methylphenol               | 108       | 4.421  | 4.421  | (1.118) | 644202   | 120.000          | 123.1           |
| 36 Hexachloroethane             | 117       | 4.504  | 4.504  | (1.139) | 245394   | 120.000          | 117.5           |
| 37 N-Nitrosodipropylamine       | 70        | 4.452  | 4.442  | (1.126) | 428242   | 120.000          | 122.9           |
| 42 Nitrobenzene                 | 77        | 4.607  | 4.597  | (0.857) | 593736   | 120.000          | 121.2           |
| 44 Isophorone                   | 82        | 4.867  | 4.856  | (0.906) | 1179801  | 120.000          | 125.2           |
| 45 2-Nitrophenol                | 139       | 4.960  | 4.960  | (0.923) | 367467   | 120.000          | 126.4           |
| 46 2,4-Dimethylphenol           | 107       | 5.012  | 5.012  | (0.933) | 638328   | 120.000          | 123.6           |

10-3-10

| Compounds                      | QUANT SIG |        | AMOUNTS |         |          |                  |                 |
|--------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
|                                | MASS      | RT     | EXP RT  | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane  | 93        | 5.126  | 5.126   | (0.954) | 707504   | 120.000          | 122.9           |
| 49 2,4-Dichlorophenol          | 162       | 5.229  | 5.229   | (0.973) | 500185   | 120.000          | 125.2           |
| 50 Benzoic Acid                | 122       | 5.146  | 5.115   | (0.958) | 395333   | 120.000          | 138.3           |
| 51 1,2,4-Trichlorobenzene      | 180       | 5.333  | 5.322   | (0.992) | 531764   | 120.000          | 122.9           |
| 52 Naphthalene                 | 128       | 5.395  | 5.395   | (1.004) | 2020315  | 120.000          | 123.7           |
| 54 4-Chloroaniline             | 127       | 5.488  | 5.488   | (1.021) | 797064   | 120.000          | 124.5           |
| 57 Hexachlorobutadiene         | 225       | 5.613  | 5.613   | (1.044) | 255231   | 120.000          | 120.6           |
| 60 4-Chloro-3-Methylphenol     | 107       | 6.069  | 6.069   | (1.129) | 563840   | 120.000          | 126.4           |
| 63 2-Methylnaphthalene         | 142       | 6.203  | 6.203   | (1.154) | 1263302  | 120.000          | 123.1           |
| 66 Hexachlorocyclopentadiene   | 237       | 6.483  | 6.483   | (0.868) | 312226   | 120.000          | 129.7           |
| 69 2,4,6-Trichlorophenol       | 196       | 6.587  | 6.576   | (0.882) | 331223   | 120.000          | 128.7           |
| 70 2,4,5-Trichlorophenol       | 196       | 6.628  | 6.628   | (0.888) | 343374   | 120.000          | 123.8           |
| 71 2-Chloronaphthalene         | 162       | 6.784  | 6.784   | (0.908) | 1107604  | 120.000          | 122.0           |
| 73 2-Nitroaniline              | 65        | 6.950  | 6.949   | (0.931) | 346408   | 120.000          | 125.9           |
| 76 Dimethylphthalate           | 163       | 7.229  | 7.229   | (0.968) | 1286101  | 120.000          | 123.0           |
| 77 Acenaphthylene              | 152       | 7.281  | 7.281   | (0.975) | 1933504  | 120.000          | 122.3           |
| 79 2,6-Dinitrotoluene          | 165       | 7.302  | 7.302   | (0.978) | 311050   | 120.000          | 127.7           |
| 80 3-Nitroaniline              | 138       | 7.457  | 7.447   | (0.999) | 382849   | 120.000          | 125.9           |
| 81 Acenaphthene                | 153       | 7.509  | 7.509   | (1.006) | 1207616  | 120.000          | 120.0           |
| 82 2,4-Dinitrophenol           | 184       | 7.582  | 7.572   | (1.015) | 199007   | 120.000          | 124.7           |
| 83 Dibenzofuran                | 168       | 7.706  | 7.706   | (1.032) | 1630240  | 120.000          | 122.0(q)        |
| 84 4-Nitrophenol               | 109       | 7.675  | 7.675   | (1.028) | 161169   | 120.000          | 127.8(Q)        |
| 86 2,4-Dinitrotoluene          | 165       | 7.768  | 7.768   | (1.040) | 409418   | 120.000          | 128.1           |
| 91 Fluorene                    | 166       | 8.131  | 8.131   | (1.089) | 1333949  | 120.000          | 120.6           |
| 92 Diethylphthalate            | 149       | 8.110  | 8.100   | (1.086) | 1329206  | 120.000          | 124.2           |
| 93 4-Chlorophenyl-phenylether  | 204       | 8.152  | 8.152   | (1.092) | 558370   | 120.000          | 121.4           |
| 94 4-Nitroaniline              | 138       | 8.224  | 8.214   | (1.101) | 378421   | 120.000          | 125.6           |
| 97 4,6-Dinitro-2-methylphenol  | 198       | 8.286  | 8.276   | (0.881) | 236477   | 120.000          | 122.1           |
| 98 N-Nitrosodiphenylamine      | 169       | 8.317  | 8.317   | (0.884) | 1123239  | 141.000          | 143.7           |
| 100 Azobenzene                 | 77        | 8.359  | 8.348   | (0.889) | 1265722  | 120.000          | 124.9           |
| 101 4-Bromophenyl-phenylether  | 248       | 8.794  | 8.794   | (0.935) | 318358   | 120.000          | 126.5           |
| 108 Hexachlorobenzene          | 284       | 8.981  | 8.981   | (0.955) | 335728   | 120.000          | 119.4           |
| 110 Pentachlorophenol          | 266       | 9.240  | 9.240   | (0.982) | 215360   | 120.000          | 122.2           |
| 114 Phenanthrene               | 178       | 9.437  | 9.437   | (1.003) | 1942962  | 120.000          | 119.6           |
| 115 Anthracene                 | 178       | 9.509  | 9.499   | (1.011) | 2014183  | 120.000          | 124.0           |
| 118 Carbazole                  | 167       | 9.768  | 9.768   | (1.039) | 1828217  | 120.000          | 123.3           |
| 120 Di-n-Butylphthalate        | 149       | 10.463 | 10.463  | (1.112) | 2225048  | 120.000          | 124.7           |
| 126 Fluoranthene               | 202       | 11.302 | 11.302  | (1.202) | 1829791  | 120.000          | 125.6           |
| 127 Benzidine                  | 184       | 11.582 | 11.571  | (0.840) | 1320429  | 120.000          | 127.8           |
| 128 Pyrene                     | 202       | 11.665 | 11.665  | (0.846) | 1963825  | 120.000          | 123.3           |
| 134 3,3'-dimethylbenzidine     | 212       | 12.877 | 12.867  | (0.934) | 1214012  | 120.000          | 133.2           |
| 136 Butylbenzylphthalate       | 149       | 12.991 | 12.991  | (0.942) | 997218   | 120.000          | 124.9           |
| 138 Benzo(a)Anthracene         | 228       | 13.758 | 13.758  | (0.998) | 1694281  | 120.000          | 124.8           |
| 139 Chrysene                   | 228       | 13.831 | 13.831  | (1.003) | 1715841  | 120.000          | 123.6           |
| 140 3,3'-Dichlorobenzidine     | 252       | 13.799 | 13.799  | (1.001) | 653016   | 120.000          | 127.5           |
| 141 bis(2-ethylhexyl)Phthalate | 149       | 14.110 | 14.110  | (1.023) | 1368794  | 120.000          | 124.5           |
| 142 Di-n-octylphthalate        | 149       | 15.167 | 15.167  | (1.100) | 2256614  | 120.000          | 128.4           |
| 144 Benzo(b)fluoranthene       | 252       | 15.592 | 15.582  | (0.964) | 1475217  | 120.000          | 120.8(Q)        |
| 145 Benzo(k)fluoranthene       | 252       | 15.623 | 15.623  | (0.966) | 1935987  | 120.000          | 123.5(q)        |
| 147 Benzo(e)pyrene             | 252       | 16.007 | 16.007  | (0.990) | 1569049  | 120.000          | 123.2           |
| 148 Benzo(a)pyrene             | 252       | 16.079 | 16.079  | (0.994) | 1720343  | 120.000          | 124.2           |
| 151 Indeno(1,2,3-cd)pyrene     | 276       | 17.810 | 17.800  | (1.101) | 1517263  | 120.000          | 135.5(M)        |
| 152 Dibenzo(a,h)anthracene     | 278       | 17.851 | 17.841  | (1.104) | 1634040  | 120.000          | 130.6           |
| 153 Benzo(g,h,i)perylene       | 276       | 18.245 | 18.235  | (1.128) | 1706123  | 120.000          | 125.9           |

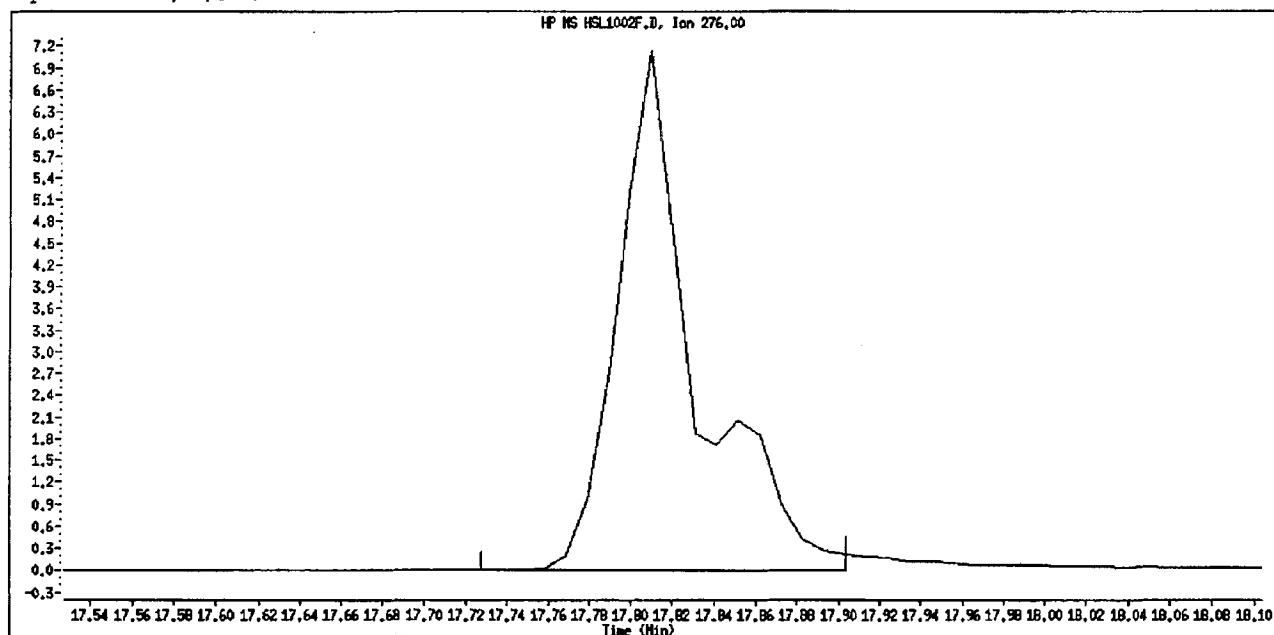
| Compounds                           | QUANT SIG | RT   | EXP RT | REL RT | RESPONSE | AMOUNTS |           |
|-------------------------------------|-----------|------|--------|--------|----------|---------|-----------|
|                                     | MASS      |      |        |        |          | CAL-AMT | ON-COL    |
| =====                               | ====      | ==== | ====   | ====   | =====    | =====   |           |
| M 162 benzo b,k Fluoranthene Totals | 252       |      |        |        | 3411204  | 120.000 | 122.3 (A) |

QC Flag Legend

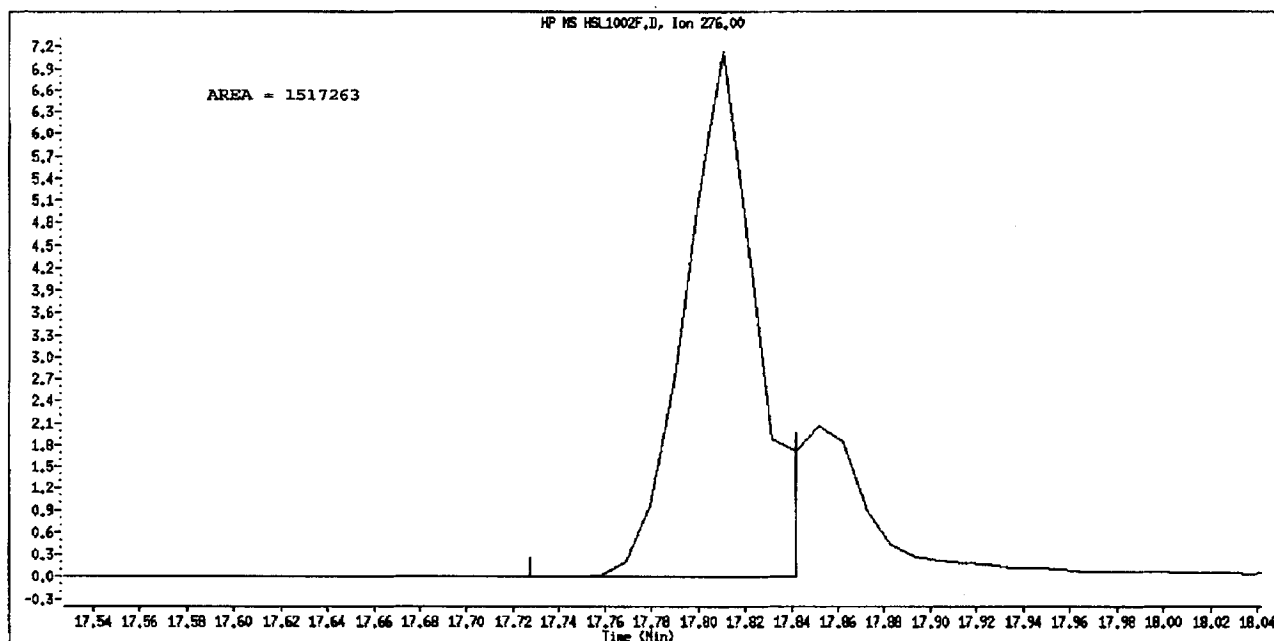
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.



Data File Name: HSL1002F.D  
Inj. Date and Time: 02-OCT-2010 14:35  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truonk  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002F.D  
 Lab Smp Id: HSL 120 ug/ml CS-6 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 14:35  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 120 ug/ml CS-6;1;;6;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0312;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 6 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

| Compounds                       | QUANT SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 |           |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 3.955  | 3.955  | (1.000) | 137751   | 40.0000          | (Q)             |
| * 2 Naphthalene-d8              | 136       | 5.374  | 5.374  | (1.000) | 591665   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164       | 7.468  | 7.468  | (1.000) | 322596   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188       | 9.406  | 9.405  | (1.000) | 515607   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240       | 13.789 | 13.779 | (1.000) | 509570   | 40.0000          |                 |
| * 6 Perylene-d12                | 264       | 16.173 | 16.162 | (1.000) | 539588   | 40.0000          |                 |
| \$ 7 2-Fluorophenol             | 112       | 2.732  | 2.732  | (0.691) | 588028   | 120.000          | 115.7           |
| \$ 8 Phenol-d5                  | 99        | 3.613  | 3.613  | (0.914) | 759824   | 120.000          | 117.5           |
| \$ 9 2-Chlorophenol-d4          | 132       | 3.758  | 3.758  | (0.950) | 652805   | 120.000          | 118.4           |
| \$ 10 1,2-Dichlorobenzene-d4    | 152       | 4.162  | 4.162  | (1.052) | 407247   | 120.000          | 118.4           |
| \$ 11 Nitrobenzene-d5           | 82        | 4.587  | 4.576  | (0.853) | 623501   | 120.000          | 118.8           |
| \$ 12 2-Fluorobiphenyl          | 172       | 6.680  | 6.680  | (0.895) | 1255441  | 120.000          | 121.5           |
| \$ 13 2,4,6-Tribromophenol      | 330       | 8.483  | 8.473  | (1.136) | 179055   | 120.000          | 140.6           |
| \$ 14 Terphenyl-d14             | 244       | 12.017 | 12.017 | (0.871) | 1251844  | 120.000          | 126.0           |
| 15 N-Nitrosodimethylamine       | 74        | 1.706  | 1.706  | (0.431) | 388111   | 120.000          | 115.7           |
| 16 Pyridine                     | 79        | 1.727  | 1.726  | (0.437) | 633334   | 120.000          | 113.3           |
| 23 Aniline                      | 93        | 3.654  | 3.654  | (0.924) | 964533   | 120.000          | 119.0(Q)        |
| 24 Phenol                       | 94        | 3.623  | 3.623  | (0.916) | 851671   | 120.000          | 123.8(Q)        |
| 26 Bis(2-chloroethyl) ether     | 93        | 3.716  | 3.716  | (0.940) | 596323   | 120.000          | 114.2           |
| 27 2-Chlorophenol               | 128       | 3.768  | 3.768  | (0.953) | 653244   | 120.000          | 120.0           |
| 28 1,3-Dichlorobenzene          | 146       | 3.924  | 3.923  | (0.992) | 712032   | 120.000          | 118.4           |
| 29 1,4-Dichlorobenzene          | 146       | 3.975  | 3.975  | (1.005) | 740915   | 120.000          | 121.9           |
| 30 Benzyl Alcohol               | 108       | 4.120  | 4.120  | (1.042) | 450249   | 120.000          | 120.4           |
| 31 1,2-Dichlorobenzene          | 146       | 4.172  | 4.172  | (1.055) | 679448   | 120.000          | 117.9           |
| 32 2-Methylphenol               | 108       | 4.255  | 4.255  | (1.076) | 603987   | 120.000          | 118.8           |
| 33 2,2'-oxybis(1-Chloropropane) | 45        | 4.297  | 4.297  | (1.086) | 941514   | 120.000          | 97.10           |
| 34 4-Methylphenol               | 108       | 4.421  | 4.421  | (1.118) | 644202   | 120.000          | 118.9           |
| 36 Hexachloroethane             | 117       | 4.504  | 4.504  | (1.139) | 245394   | 120.000          | 114.4           |
| 37 N-Nitrosodipropylamine       | 70        | 4.452  | 4.442  | (1.126) | 428242   | 120.000          | 112.9           |
| 42 Nitrobenzene                 | 77        | 4.607  | 4.597  | (0.857) | 593736   | 120.000          | 113.8           |
| 44 Isophorone                   | 82        | 4.867  | 4.856  | (0.906) | 1179801  | 120.000          | 119.3           |
| 45 2-Nitrophenol                | 139       | 4.960  | 4.960  | (0.923) | 367467   | 120.000          | 129.0           |
| 46 2,4-Dimethylphenol           | 107       | 5.012  | 5.012  | (0.933) | 638328   | 120.000          | 120.7           |

| Compounds                       | QUANT SIG |        | AMOUNTS |         |          |                  |                 |
|---------------------------------|-----------|--------|---------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT  | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy) methane  | 93        | 5.126  | 5.126   | (0.954) | 707504   | 120.000          | 120.2           |
| 49 2,4-Dichlorophenol           | 162       | 5.229  | 5.229   | (0.973) | 500185   | 120.000          | 128.5           |
| 50 Benzoic Acid                 | 122       | 5.146  | 5.115   | (0.958) | 395333   | 120.000          | 134.1           |
| 51 1,2,4-Trichlorobenzene       | 180       | 5.333  | 5.322   | (0.992) | 531764   | 120.000          | 126.0           |
| 52 Naphthalene                  | 128       | 5.395  | 5.395   | (1.004) | 2020315  | 120.000          | 122.7           |
| 54 4-Chloroaniline              | 127       | 5.488  | 5.488   | (1.021) | 797064   | 120.000          | 123.0           |
| 57 Hexachlorobutadiene          | 225       | 5.613  | 5.613   | (1.044) | 255231   | 120.000          | 127.2           |
| 60 4-Chloro-3-Methylphenol      | 107       | 6.069  | 6.069   | (1.129) | 563840   | 120.000          | 125.9           |
| 63 2-Methylnaphthalene          | 142       | 6.203  | 6.203   | (1.154) | 1263302  | 120.000          | 125.7           |
| 66 Hexachlorocyclopentadiene    | 237       | 6.483  | 6.483   | (0.868) | 312226   | 120.000          | 126.9           |
| 69 2,4,6-Trichlorophenol        | 196       | 6.587  | 6.576   | (0.882) | 331223   | 120.000          | 135.6           |
| 70 2,4,5-Trichlorophenol        | 196       | 6.628  | 6.628   | (0.888) | 343374   | 120.000          | 128.0           |
| 71 2-Chloronaphthalene          | 162       | 6.784  | 6.784   | (0.908) | 1107604  | 120.000          | 122.5           |
| 73 2-Nitroaniline               | 65        | 6.950  | 6.949   | (0.931) | 346408   | 120.000          | 114.4           |
| 76 Dimethylphthalate            | 163       | 7.229  | 7.229   | (0.968) | 1286101  | 120.000          | 123.1           |
| 77 Acenaphthylene               | 152       | 7.281  | 7.281   | (0.975) | 1933504  | 120.000          | 122.3           |
| 79 2,6-Dinitrotoluene           | 165       | 7.302  | 7.302   | (0.978) | 311050   | 120.000          | 133.0           |
| 80 3-Nitroaniline               | 138       | 7.457  | 7.447   | (0.999) | 382849   | 120.000          | 123.4           |
| 81 Acenaphthene                 | 153       | 7.509  | 7.509   | (1.006) | 1207616  | 120.000          | 119.9           |
| 82 2,4-Dinitrophenol            | 184       | 7.582  | 7.571   | (1.015) | 199007   | 120.000          | 127.2           |
| 83 Dibenzofuran                 | 168       | 7.706  | 7.706   | (1.032) | 1630240  | 120.000          | 122.5 (q)       |
| 84 4-Nitrophenol                | 109       | 7.675  | 7.675   | (1.028) | 161169   | 120.000          | 119.0 (Q)       |
| 86 2,4-Dinitrotoluene           | 165       | 7.768  | 7.768   | (1.040) | 409418   | 120.000          | 130.6           |
| 91 Fluorene                     | 166       | 8.131  | 8.131   | (1.089) | 1333949  | 120.000          | 122.3           |
| 92 Diethylphthalate             | 149       | 8.110  | 8.100   | (1.086) | 1329206  | 120.000          | 121.7           |
| 93 4-Chlorophenyl-phenylether   | 204       | 8.152  | 8.152   | (1.092) | 558370   | 120.000          | 124.2           |
| 94 4-Nitroaniline               | 138       | 8.224  | 8.214   | (1.101) | 378421   | 120.000          | 124.8           |
| 97 4,6-Dinitro-2-methylphenol   | 198       | 8.286  | 8.276   | (0.881) | 236477   | 120.000          | 120.3           |
| 98 N-Nitrosodiphenylamine       | 169       | 8.317  | 8.317   | (0.884) | 1123239  | 141.000          | 139.8           |
| 100 Azobenzene                  | 77        | 8.359  | 8.348   | (0.889) | 1266722  | 120.000          | 113.3           |
| 101 4-Bromophenyl-phenylether   | 248       | 8.794  | 8.794   | (0.935) | 318358   | 120.000          | 127.8           |
| 108 Hexachlorobenzene           | 284       | 8.981  | 8.981   | (0.955) | 335728   | 120.000          | 124.8           |
| 110 Pentachlorophenol           | 266       | 9.240  | 9.240   | (0.982) | 215360   | 120.000          | 133.3           |
| 114 Phenanthrene                | 178       | 9.437  | 9.437   | (1.003) | 1942962  | 120.000          | 120.8           |
| 115 Anthracene                  | 178       | 9.509  | 9.499   | (1.011) | 2014183  | 120.000          | 124.4           |
| 118 Carbazole                   | 167       | 9.768  | 9.768   | (1.039) | 1828217  | 120.000          | 121.4           |
| 120 Di-n-Butylphthalate         | 149       | 10.463 | 10.463  | (1.112) | 2225048  | 120.000          | 122.2           |
| 126 Fluoranthene                | 202       | 11.302 | 11.302  | (1.202) | 1829791  | 120.000          | 126.4           |
| 127 Benzidine                   | 184       | 11.582 | 11.571  | (0.840) | 1320429  | 120.000          | 126.2           |
| 128 Pyrene                      | 202       | 11.665 | 11.665  | (0.846) | 1963825  | 120.000          | 123.2           |
| 134 3,3'-dimethylbenzidine      | 212       | 12.877 | 12.867  | (0.934) | 1214012  | 120.000          | 135.2           |
| 136 Butylbenzylphthalate        | 149       | 12.991 | 12.991  | (0.942) | 997218   | 120.000          | 122.5           |
| 138 Benzo(a)Anthracene          | 228       | 13.758 | 13.758  | (0.998) | 1694281  | 120.000          | 126.0           |
| 139 Chrysene                    | 228       | 13.831 | 13.831  | (1.003) | 1715841  | 120.000          | 122.8           |
| 140 3,3'-Dichlorobenzidine      | 252       | 13.799 | 13.799  | (1.001) | 653016   | 120.000          | 132.7           |
| 141 bis(2-ethylhexyl) Phthalate | 149       | 14.110 | 14.110  | (1.023) | 1368794  | 120.000          | 122.1           |
| 142 Di-n-octylphthalate         | 149       | 15.167 | 15.167  | (1.100) | 2256614  | 120.000          | 125.9           |
| 144 Benzo(b)fluoranthene        | 252       | 15.592 | 15.582  | (0.964) | 1475217  | 120.000          | 115.3 (Q)       |
| 145 Benzo(k)fluoranthene        | 252       | 15.623 | 15.623  | (0.966) | 1935987  | 120.000          | 129.5 (q)       |
| 147 Benzo(e)pyrene              | 252       | 16.007 | 16.007  | (0.990) | 1569049  | 120.000          | 123.7           |
| 148 Benzo(a)pyrene              | 252       | 16.079 | 16.079  | (0.994) | 1720343  | 120.000          | 123.5           |
| 151 Indeno(1,2,3-cd)pyrene      | 276       | 17.810 | 17.800  | (1.101) | 1867193  | 120.000          | 151.5           |
| 152 Dibenzo(a,h)anthracene      | 278       | 17.851 | 17.841  | (1.104) | 1634040  | 120.000          | 129.4           |
| 153 Benzo(g,h,i)perylene        | 276       | 18.245 | 18.235  | (1.128) | 1706123  | 120.000          | 126.0           |

| Compounds                           | QUANT SIG<br>MASS | RT | EXP RT | REL RT | RESPONSE | AMOUNTS          |                 |
|-------------------------------------|-------------------|----|--------|--------|----------|------------------|-----------------|
|                                     |                   |    |        |        |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| M 162 benzo b,k Fluoranthene Totals | 252               |    |        |        | 3411204  | 120.000          | 122.9(A)        |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 02-OCT-2010  
 Lab File ID: HSL1002F.D Calibration Time: 13:44  
 Lab Smp Id: HSL 120 ug/ml CS-6 Client Smp ID: 8270F.M  
 Analysis Type: SV Level:  
 Quant Type: ISTD Sample Type:  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0312;0;8270F.M

Test Mode: Use Initial Calibration Level 4.

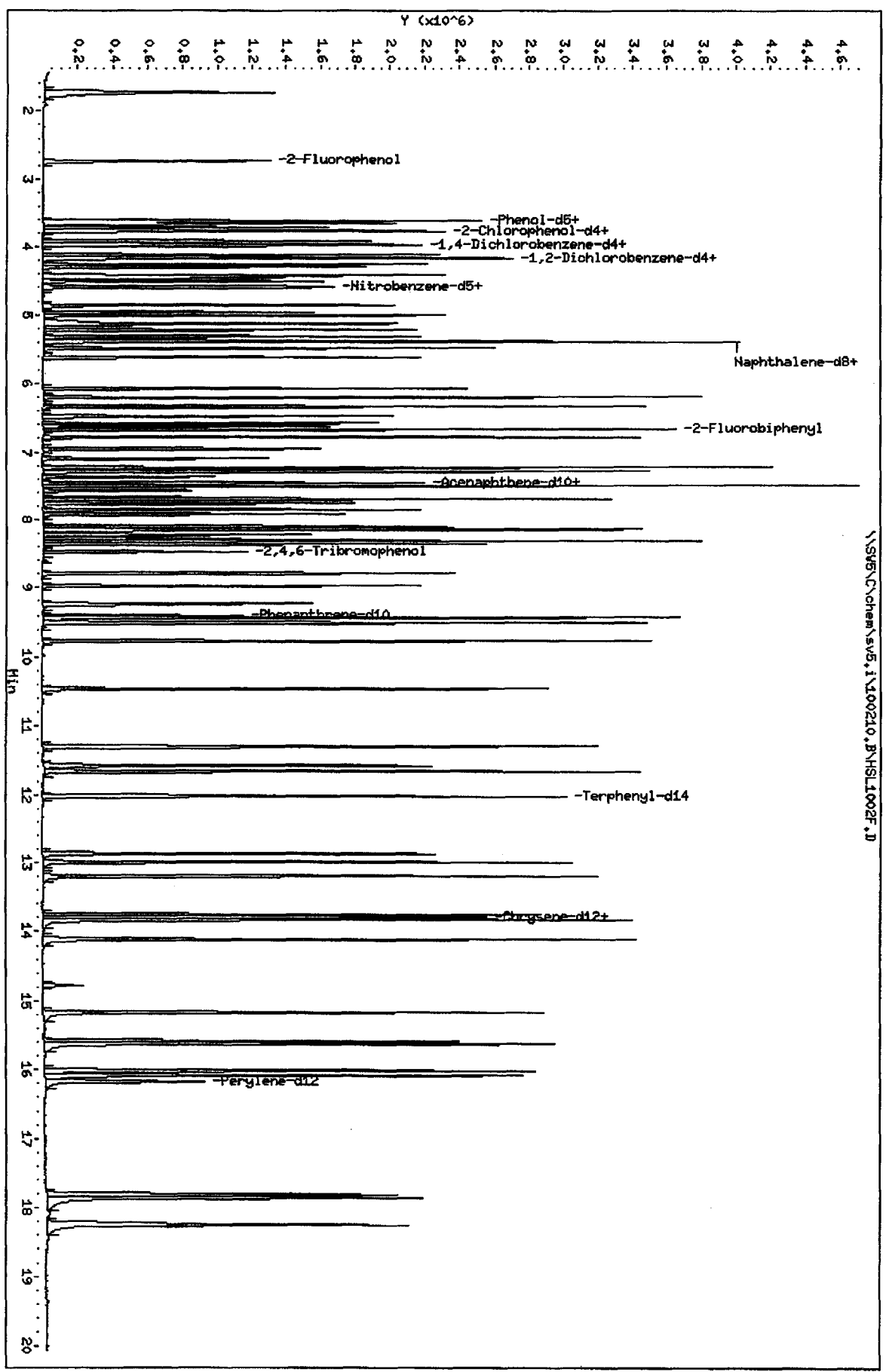
| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 137751 | 12.34 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 591665 | 11.53 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 322596 | 14.18 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 515607 | 11.43 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 509570 | 16.91 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 539588 | 27.78 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.96     | 3.46     | 4.46  | 3.96   | 0.00  |
| 2 Naphthalene-d8    | 5.37     | 4.87     | 5.87  | 5.37   | 0.00  |
| 3 Acenaphthene-d10  | 7.47     | 6.97     | 7.97  | 7.47   | 0.00  |
| 4 Phenanthrene-d10  | 9.41     | 8.91     | 9.91  | 9.41   | 0.00  |
| 5 Chrysene-d12      | 13.78    | 13.28    | 14.28 | 13.79  | 0.08  |
| 6 Perylene-d12      | 16.16    | 15.66    | 16.66 | 16.17  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV56\Chem\sv5.1\100210.B\HSL1002F.D  
 Date: 02-OCT-2010 14:35  
 Client ID: 8270F.H  
 Sample Info: HSL\_120 ug/ml CS-611161114  
 Column Phase:

Instrument: sv5.1  
 Operator: KT  
 Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002G.D  
 Lab Smp Id: HSL 160 ug/ml CS-7 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 15:00  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 160 ug/ml CS-7;1;;7;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0313;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:09 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 7 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

| Compounds                       | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152       | 3.954  | 3.955  | (1.000) | 141009   | 40.0000          | (Q)             |
| * 2 Naphthalene-d8              | 136       | 5.374  | 5.374  | (1.000) | 622461   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164       | 7.478  | 7.468  | (1.000) | 328259   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188       | 9.405  | 9.405  | (1.000) | 532284   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240       | 13.789 | 13.779 | (1.000) | 539557   | 40.0000          |                 |
| * 6 Perylene-d12                | 264       | 16.172 | 16.162 | (1.000) | 560436   | 40.0000          |                 |
| \$ 7 2-Fluorophenol             | 112       | 2.732  | 2.732  | (0.691) | 810154   | 160.000          | 163.0(A)        |
| \$ 8 Phenol-d5                  | 99        | 3.623  | 3.613  | (0.916) | 1035724  | 160.000          | 165.7(A)        |
| \$ 9 2-Chlorophenol-d4          | 132       | 3.757  | 3.758  | (0.950) | 890073   | 160.000          | 162.2(A)        |
| \$ 10 1,2-Dichlorobenzene-d4    | 152       | 4.162  | 4.162  | (1.052) | 557810   | 160.000          | 160.6(A)        |
| \$ 11 Nitrobenzene-d5           | 82        | 4.587  | 4.576  | (0.853) | 845796   | 160.000          | 160.4(A)        |
| \$ 12 2-Fluorobiphenyl          | 172       | 6.680  | 6.680  | (0.893) | 1707074  | 160.000          | 161.4(A)        |
| \$ 13 2,4,6-Tribromophenol      | 330       | 8.483  | 8.473  | (1.134) | 241468   | 160.000          | 169.3(A)        |
| \$ 14 Terphenyl-d14             | 244       | 12.017 | 12.017 | (0.871) | 1728892  | 160.000          | 162.7(A)        |
| 15 N-Nitrosodimethylamine       | 74        | 1.706  | 1.706  | (0.431) | 529253   | 160.000          | 162.9(Ag)       |
| 16 Pyridine                     | 79        | 1.726  | 1.726  | (0.437) | 860850   | 160.000          | 158.4(Q)        |
| 23 Aniline                      | 93        | 3.654  | 3.654  | (0.924) | 1318620  | 160.000          | 165.8(AQ)       |
| 24 Phenol                       | 94        | 3.633  | 3.623  | (0.919) | 1166090  | 160.000          | 162.4(AQ)       |
| 26 Bis(2-chloroethyl) ether     | 93        | 3.716  | 3.716  | (0.940) | 813702   | 160.000          | 161.6(A)        |
| 27 2-Chlorophenol               | 128       | 3.768  | 3.768  | (0.953) | 885754   | 160.000          | 160.7(A)        |
| 28 1,3-Dichlorobenzene          | 146       | 3.923  | 3.923  | (0.992) | 972719   | 160.000          | 162.0(A)        |
| 29 1,4-Dichlorobenzene          | 146       | 3.975  | 3.975  | (1.005) | 1023408  | 160.000          | 163.0(A)        |
| 30 Benzyl Alcohol               | 108       | 4.120  | 4.120  | (1.042) | 617653   | 160.000          | 166.7(A)        |
| 31 1,2-Dichlorobenzene          | 146       | 4.172  | 4.172  | (1.055) | 928919   | 160.000          | 160.9(A)        |
| 32 2-Methylphenol               | 108       | 4.265  | 4.255  | (1.079) | 834149   | 160.000          | 165.4(A)        |
| 33 2,2'-oxybis(1-Chloropropane) | 45        | 4.296  | 4.297  | (1.086) | 1290345  | 160.000          | 161.0(A)        |
| 34 4-Methylphenol               | 108       | 4.421  | 4.421  | (1.118) | 895481   | 160.000          | 167.2(A)        |
| 36 Hexachloroethane             | 117       | 4.504  | 4.504  | (1.139) | 343605   | 160.000          | 160.7(A)        |
| 37 N-Nitrosodipropylamine       | 70        | 4.452  | 4.442  | (1.126) | 590870   | 160.000          | 165.6(A)        |
| 42 Nitrobenzene                 | 77        | 4.607  | 4.597  | (0.857) | 844093   | 160.000          | 163.8(A)        |
| 44 Isophorone                   | 82        | 4.866  | 4.856  | (0.906) | 1628636  | 160.000          | 164.4(A)        |
| 45 2-Nitrophenol                | 139       | 4.960  | 4.960  | (0.923) | 510613   | 160.000          | 167.0(A)        |
| 46 2,4-Dimethylphenol           | 107       | 5.022  | 5.012  | (0.934) | 890994   | 160.000          | 164.0(A)        |

10-3-10

| Compounds                       | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                                 |                   |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane   | 93                | 5.136  | 5.126  | (0.956) | 959710   | 160.000          | 158.5           |
| 49 2,4-Dichlorophenol           | 162               | 5.229  | 5.229  | (0.973) | 692405   | 160.000          | 164.7 (A)       |
| 50 Benzoic Acid                 | 122               | 5.167  | 5.115  | (0.961) | 552251   | 160.000          | 183.6 (A)       |
| 51 1,2,4-Trichlorobenzene       | 180               | 5.333  | 5.322  | (0.992) | 724320   | 160.000          | 159.2           |
| 52 Naphthalene                  | 128               | 5.395  | 5.395  | (1.004) | 2744968  | 160.000          | 159.7           |
| 54 4-Chloroaniline              | 127               | 5.488  | 5.488  | (1.021) | 1092223  | 160.000          | 162.1 (A)       |
| 57 Hexachlorobutadiene          | 225               | 5.612  | 5.613  | (1.044) | 360358   | 160.000          | 161.8 (A)       |
| 60 4-Chloro-3-Methylphenol      | 107               | 6.068  | 6.069  | (1.129) | 767831   | 160.000          | 163.6 (A)       |
| 63 2-Methylnaphthalene          | 142               | 6.203  | 6.203  | (1.154) | 1723402  | 160.000          | 159.6           |
| 66 Hexachlorocyclopentadiene    | 237               | 6.483  | 6.483  | (0.867) | 435738   | 160.000          | 177.9 (A)       |
| 69 2,4,6-Trichlorophenol        | 196               | 6.587  | 6.576  | (0.881) | 441685   | 160.000          | 168.6 (A)       |
| 70 2,4,5-Trichlorophenol        | 196               | 6.628  | 6.628  | (0.886) | 474468   | 160.000          | 168.2 (A)       |
| 71 2-Chloronaphthalene          | 162               | 6.783  | 6.784  | (0.907) | 1511253  | 160.000          | 163.6 (A)       |
| 73 2-Nitroaniline               | 65                | 6.960  | 6.949  | (0.931) | 476342   | 160.000          | 170.1 (A)       |
| 76 Dimethylphthalate            | 163               | 7.229  | 7.229  | (0.967) | 1710061  | 160.000          | 160.8 (A)       |
| 77 Acenaphthylene               | 152               | 7.291  | 7.281  | (0.975) | 2665048  | 160.000          | 165.6 (A)       |
| 79 2,6-Dinitrotoluene           | 165               | 7.302  | 7.302  | (0.976) | 408436   | 160.000          | 164.8 (A)       |
| 80 3-Nitroaniline               | 138               | 7.457  | 7.447  | (0.997) | 520002   | 160.000          | 168.1 (A)       |
| 81 Acenaphthene                 | 153               | 7.509  | 7.509  | (1.004) | 1647377  | 160.000          | 160.9 (A)       |
| 82 2,4-Dinitrophenol            | 184               | 7.581  | 7.572  | (1.014) | 265655   | 160.000          | 157.7           |
| 83 Dibenzofuran                 | 168               | 7.706  | 7.706  | (1.030) | 2246304  | 160.000          | 165.3 (A)       |
| 84 4-Nitrophenol                | 109               | 7.685  | 7.675  | (1.028) | 228516   | 160.000          | 178.1 (Ag)      |
| 86 2,4-Dinitrotoluene           | 165               | 7.778  | 7.768  | (1.040) | 566055   | 160.000          | 174.0 (A)       |
| 91 Fluorene                     | 166               | 8.141  | 8.131  | (1.089) | 1846653  | 160.000          | 164.1 (A)       |
| 92 Diethylphthalate             | 149               | 8.110  | 8.100  | (1.085) | 1813127  | 160.000          | 166.5 (A)       |
| 93 4-Chlorophenyl-phenylether   | 204               | 8.151  | 8.152  | (1.090) | 757562   | 160.000          | 161.9 (A)       |
| 94 4-Nitroaniline               | 138               | 8.224  | 8.214  | (1.100) | 531151   | 160.000          | 173.2 (A)       |
| 97 4,6-Dinitro-2-methylphenol   | 198               | 8.286  | 8.276  | (0.881) | 324244   | 160.000          | 160.7 (A)       |
| 98 N-Nitrosodiphenylamine       | 169               | 8.328  | 8.317  | (0.885) | 1542041  | 187.000          | 191.1 (A)       |
| 100 Azobenzene                  | 77                | 8.359  | 8.348  | (0.889) | 1646477  | 160.000          | 157.3           |
| 101 4-Bromophenyl-phenylether   | 248               | 8.804  | 8.794  | (0.936) | 421894   | 160.000          | 162.4 (A)       |
| 108 Hexachlorobenzene           | 284               | 8.980  | 8.981  | (0.955) | 465305   | 160.000          | 160.3 (A)       |
| 110 Pentachlorophenol           | 266               | 9.250  | 9.240  | (0.983) | 293184   | 160.000          | 159.9           |
| 114 Phenanthrene                | 178               | 9.447  | 9.437  | (1.004) | 2695719  | 160.000          | 160.7 (A)       |
| 115 Anthracene                  | 178               | 9.509  | 9.499  | (1.011) | 2703105  | 160.000          | 161.3 (A)       |
| 118 Carbazole                   | 167               | 9.768  | 9.768  | (1.039) | 2479487  | 160.000          | 161.9 (A)       |
| 120 Di-n-Butylphthalate         | 149               | 10.473 | 10.463 | (1.113) | 3164666  | 160.000          | 171.8 (A)       |
| 126 Fluoranthene                | 202               | 11.312 | 11.302 | (1.203) | 2500453  | 160.000          | 166.3 (A)       |
| 127 Benzidine                   | 184               | 11.582 | 11.571 | (0.840) | 1864289  | 160.000          | 170.5 (A)       |
| 128 Pyrene                      | 202               | 11.664 | 11.665 | (0.846) | 2714930  | 160.000          | 161.0 (A)       |
| 134 3,3'-dimethylbenzidine      | 212               | 12.877 | 12.867 | (0.934) | 1724989  | 160.000          | 178.7 (A)       |
| 136 Butylbenzylphthalate        | 149               | 12.991 | 12.991 | (0.942) | 1401117  | 160.000          | 165.8 (A)       |
| 138 Benzo (a) Anthracene        | 228               | 13.768 | 13.758 | (0.998) | 2393908  | 160.000          | 166.6 (A)       |
| 139 Chrysene                    | 228               | 13.841 | 13.831 | (1.004) | 2422526  | 160.000          | 164.8 (A)       |
| 140 3,3'-Dichlorobenzidine      | 252               | 13.810 | 13.799 | (1.002) | 915413   | 160.000          | 168.9 (A)       |
| 141 bis(2-ethylhexyl) Phthalate | 149               | 14.110 | 14.110 | (1.023) | 1906885  | 160.000          | 163.8 (A)       |
| 142 Di-n-octylphthalate         | 149               | 15.167 | 15.167 | (1.100) | 3253965  | 160.000          | 174.8 (A)       |
| 144 Benzo (b) fluoranthene      | 252               | 15.592 | 15.582 | (0.964) | 2299398  | 160.000          | 181.2 (AQ)      |
| 145 Benzo (k) fluoranthene      | 252               | 15.634 | 15.623 | (0.967) | 2475935  | 160.000          | 152.0 (q)       |
| 147 Benzo (e) pyrene            | 252               | 16.017 | 16.007 | (0.990) | 2178628  | 160.000          | 164.7 (A)       |
| 148 Benzo (a) pyrene            | 252               | 16.089 | 16.079 | (0.995) | 2387962  | 160.000          | 166.0 (A)       |
| 151 Indeno (1,2,3-cd) pyrene    | 276               | 17.820 | 17.800 | (1.102) | 2196805  | 160.000          | 188.8 (AM)      |
| 152 Dibenzo (a, h) anthracene   | 278               | 17.862 | 17.841 | (1.104) | 2250528  | 160.000          | 173.2 (A)       |
| 153 Benzo (g, h, i) perylene    | 276               | 18.255 | 18.235 | (1.129) | 2332007  | 160.000          | 165.7 (A)       |

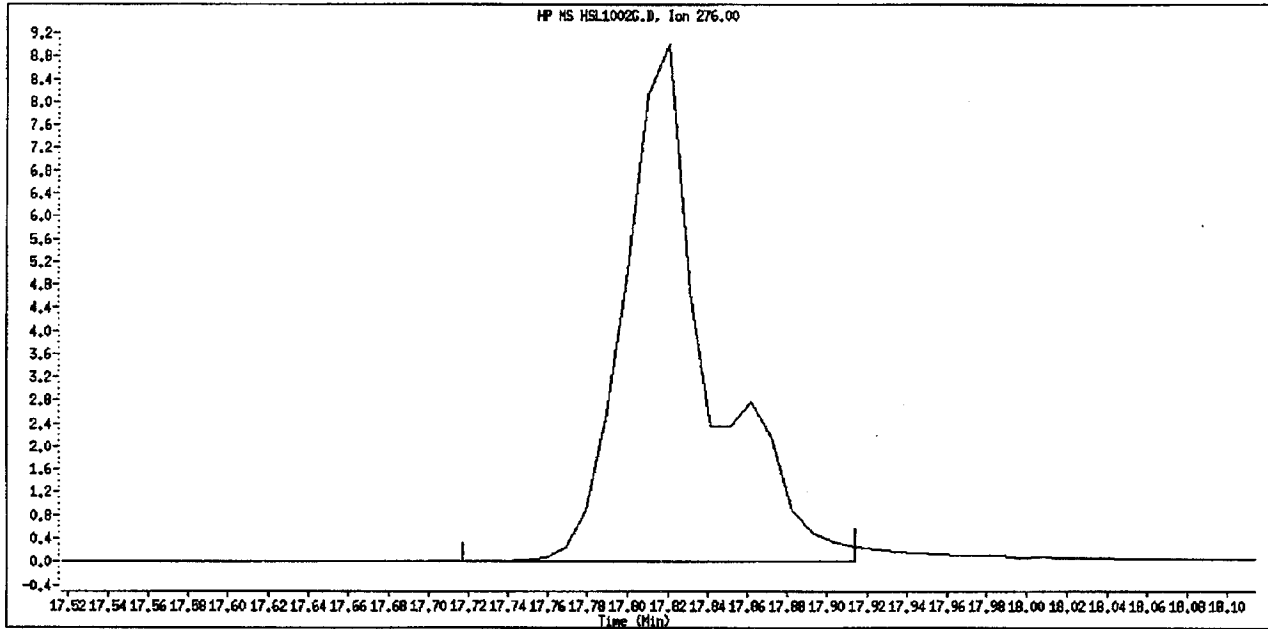


| Compounds                           | QUANT SIG | RT  | EXP RT | REL RT | RESPONSE | AMOUNTS          |                 |
|-------------------------------------|-----------|-----|--------|--------|----------|------------------|-----------------|
|                                     |           |     |        |        |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====                               | ====      | *** | *****  | *****  | *****    | *****            | *****           |
| M 162 benzo b,k Fluoranthene Totals | 252       |     |        |        | 4775333  | 160.000          | 164.8 (A)       |

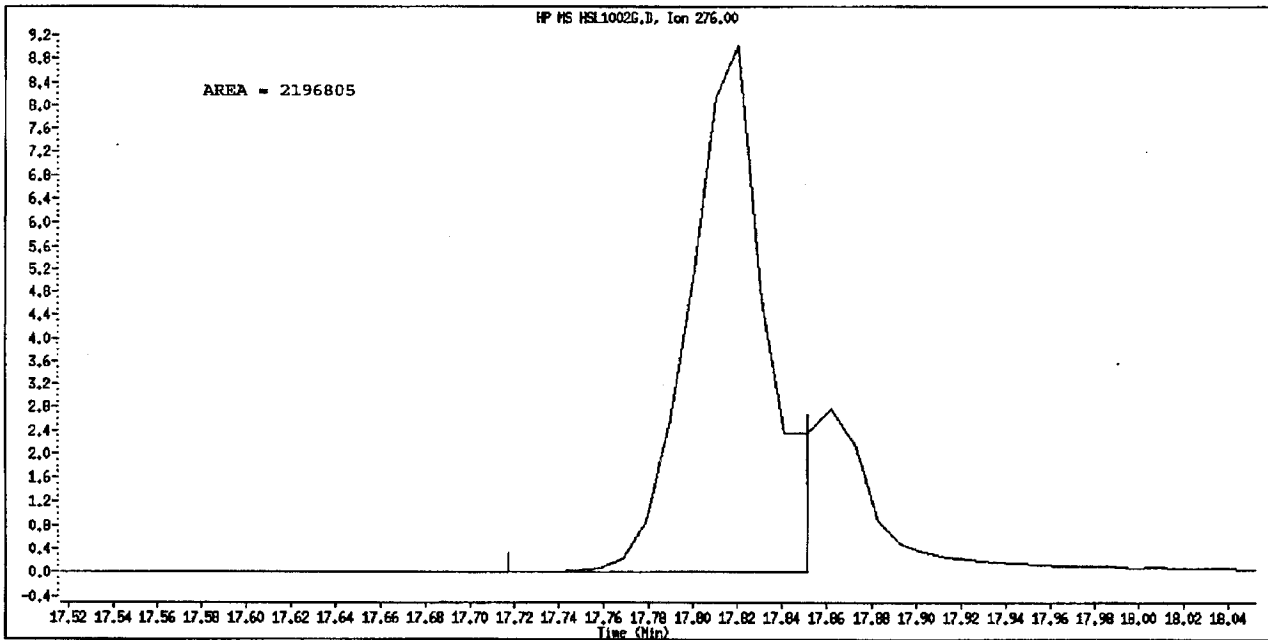
QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- q - Qualifier signal exceeded ratio warning limit.

Data File Name: HSL1002G.D  
Inj. Date and Time: 02-OCT-2010 15:00  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 10/03/2010



Original Integration



Manual Integration

Manually Integrated By: truongk  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\100210.B\HSL1002G.D  
 Lab Smp Id: HSL 160 ug/ml CS-7 Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 15:00  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 160 ug/ml CS-7;1;;7;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0313;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 02-Oct-2010 16:57 onishim Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 7 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SV5

| Compounds                       | QUANT | SIG | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-------|-----|--------|--------|---------|----------|------------------|-----------------|
|                                 |       |     |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152   |     | 3.954  | 3.955  | (1.000) | 141009   | 40.0000          | (Q)             |
| * 2 Naphthalene-d8              | 136   |     | 5.374  | 5.374  | (1.000) | 622461   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164   |     | 7.478  | 7.468  | (1.000) | 328259   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188   |     | 9.405  | 9.405  | (1.000) | 532284   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240   |     | 13.789 | 13.779 | (1.000) | 539557   | 40.0000          |                 |
| * 6 Perylene-d12                | 264   |     | 16.172 | 16.162 | (1.000) | 560436   | 40.0000          |                 |
| \$ 7 2-Fluorophenol             | 112   |     | 2.732  | 2.732  | (0.691) | 810154   | 160.000          | 155.7           |
| \$ 8 Phenol-d5                  | 99    |     | 3.623  | 3.613  | (0.916) | 1035724  | 160.000          | 156.5           |
| \$ 9 2-Chlorophenol-d4          | 132   |     | 3.757  | 3.758  | (0.950) | 890073   | 160.000          | 157.7           |
| \$ 10 1,2-Dichlorobenzene-d4    | 152   |     | 4.162  | 4.162  | (1.052) | 557810   | 160.000          | 158.4           |
| \$ 11 Nitrobenzene-d5           | 82    |     | 4.587  | 4.576  | (0.853) | 845796   | 160.000          | 153.2           |
| \$ 12 2-Fluorobiphenyl          | 172   |     | 6.680  | 6.680  | (0.893) | 1707074  | 160.000          | 162.4 (A)       |
| \$ 13 2,4,6-Tribromophenol      | 330   |     | 8.483  | 8.473  | (1.134) | 241468   | 160.000          | 186.3 (A)       |
| \$ 14 Terphenyl-d14             | 244   |     | 12.017 | 12.017 | (0.871) | 1728892  | 160.000          | 164.3 (A)       |
| 15 N-Nitrosodimethylamine       | 74    |     | 1.706  | 1.706  | (0.431) | 529253   | 160.000          | 154.1           |
| 16 Pyridine                     | 79    |     | 1.726  | 1.726  | (0.437) | 860850   | 160.000          | 150.4           |
| 23 Aniline                      | 93    |     | 3.654  | 3.654  | (0.924) | 1318620  | 160.000          | 158.9 (Q)       |
| 24 Phenol                       | 94    |     | 3.633  | 3.623  | (0.919) | 1166090  | 160.000          | 165.7 (AQ)      |
| 26 Bis(2-chloroethyl)ether      | 93    |     | 3.716  | 3.716  | (0.940) | 813702   | 160.000          | 152.2           |
| 27 2-Chlorophenol               | 128   |     | 3.768  | 3.768  | (0.953) | 885754   | 160.000          | 159.0           |
| 28 1,3-Dichlorobenzene          | 146   |     | 3.923  | 3.923  | (0.992) | 972719   | 160.000          | 158.0           |
| 29 1,4-Dichlorobenzene          | 146   |     | 3.975  | 3.975  | (1.005) | 1023408  | 160.000          | 164.5 (A)       |
| 30 Benzyl Alcohol               | 108   |     | 4.120  | 4.120  | (1.042) | 617653   | 160.000          | 161.4 (A)       |
| 31 1,2-Dichlorobenzene          | 146   |     | 4.172  | 4.172  | (1.055) | 928919   | 160.000          | 157.5           |
| 32 2-Methylphenol               | 108   |     | 4.265  | 4.255  | (1.079) | 834149   | 160.000          | 160.3 (A)       |
| 33 2,2'-oxybis(1-Chloropropane) | 45    |     | 4.296  | 4.297  | (1.086) | 1290345  | 160.000          | 130.0           |
| 34 4-Methylphenol               | 108   |     | 4.421  | 4.421  | (1.118) | 895481   | 160.000          | 161.5 (A)       |
| 36 Hexachloroethane             | 117   |     | 4.504  | 4.504  | (1.139) | 343605   | 160.000          | 156.5           |
| 37 N-Nitrosodipropylamine       | 70    |     | 4.452  | 4.442  | (1.126) | 590870   | 160.000          | 152.2           |
| 42 Nitrobenzene                 | 77    |     | 4.607  | 4.597  | (0.857) | 844093   | 160.000          | 153.8           |
| 44 Isophorone                   | 82    |     | 4.866  | 4.856  | (0.906) | 1628636  | 160.000          | 156.6           |
| 45 2-Nitrophenol                | 139   |     | 4.960  | 4.960  | (0.923) | 510613   | 160.000          | 170.5 (A)       |
| 46 2,4-Dimethylphenol           | 107   |     | 5.022  | 5.012  | (0.934) | 890994   | 160.000          | 160.2 (A)       |

| Compounds                      | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|--------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                                |                   |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane  | 93                | 5.136  | 5.126  | (0.956) | 959710   | 160.000          | 155.0           |
| 49 2,4-Dichlorophenol          | 162               | 5.229  | 5.229  | (0.973) | 692405   | 160.000          | 169.1(A)        |
| 50 Benzoic Acid                | 122               | 5.167  | 5.115  | (0.961) | 552251   | 160.000          | 178.1(A)        |
| 51 1,2,4-Trichlorobenzene      | 180               | 5.333  | 5.322  | (0.992) | 724320   | 160.000          | 163.2(A)        |
| 52 Naphthalene                 | 128               | 5.395  | 5.395  | (1.004) | 2744968  | 160.000          | 158.4           |
| 54 4-Chloroaniline             | 127               | 5.488  | 5.488  | (1.021) | 1092223  | 160.000          | 160.2(A)        |
| 57 Hexachlorobutadiene         | 225               | 5.612  | 5.613  | (1.044) | 360358   | 160.000          | 170.6(A)        |
| 60 4-Chloro-3-Methylphenol     | 107               | 6.068  | 6.069  | (1.129) | 767831   | 160.000          | 163.0(A)        |
| 63 2-Methylnaphthalene         | 142               | 6.203  | 6.203  | (1.154) | 1723402  | 160.000          | 163.0(A)        |
| 66 Hexachlorocyclopentadiene   | 237               | 6.483  | 6.483  | (0.867) | 435738   | 160.000          | 174.0(A)        |
| 69 2,4,6-Trichlorophenol       | 196               | 6.587  | 6.576  | (0.881) | 441685   | 160.000          | 177.7(A)        |
| 70 2,4,5-Trichlorophenol       | 196               | 6.628  | 6.628  | (0.886) | 474468   | 160.000          | 173.8(A)        |
| 71 2-Chloronaphthalene         | 162               | 6.783  | 6.784  | (0.907) | 1511253  | 160.000          | 164.2(A)        |
| 73 2-Nitroaniline              | 65                | 6.960  | 6.949  | (0.931) | 476342   | 160.000          | 154.5           |
| 76 Dimethylphthalate           | 163               | 7.229  | 7.229  | (0.967) | 1710061  | 160.000          | 160.9(A)        |
| 77 Acenaphthylene              | 152               | 7.291  | 7.281  | (0.975) | 2665048  | 160.000          | 165.6(A)        |
| 79 2,6-Dinitrotoluene          | 165               | 7.302  | 7.302  | (0.976) | 408436   | 160.000          | 171.6(A)        |
| 80 3-Nitroaniline              | 138               | 7.457  | 7.447  | (0.997) | 520002   | 160.000          | 164.8(A)        |
| 81 Acenaphthene                | 153               | 7.509  | 7.509  | (1.004) | 1647377  | 160.000          | 160.7(A)        |
| 82 2,4-Dinitrophenol           | 184               | 7.581  | 7.571  | (1.014) | 265655   | 160.000          | 158.9           |
| 83 Dibenzofuran                | 168               | 7.706  | 7.706  | (1.030) | 2246304  | 160.000          | 165.8(A)        |
| 84 4-Nitrophenol               | 109               | 7.685  | 7.675  | (1.028) | 228516   | 160.000          | 165.8(Aq)       |
| 86 2,4-Dinitrotoluene          | 165               | 7.778  | 7.768  | (1.040) | 566055   | 160.000          | 177.5(A)        |
| 91 Fluorene                    | 166               | 8.141  | 8.131  | (1.089) | 1846653  | 160.000          | 166.4(A)        |
| 92 Diethylphthalate            | 149               | 8.110  | 8.100  | (1.085) | 1813127  | 160.000          | 163.2(A)        |
| 93 4-Chlorophenyl-phenylether  | 204               | 8.151  | 8.152  | (1.090) | 757562   | 160.000          | 165.6(A)        |
| 94 4-Nitroaniline              | 138               | 8.224  | 8.214  | (1.100) | 531151   | 160.000          | 172.2(A)        |
| 97 4,6-Dinitro-2-methylphenol  | 198               | 8.286  | 8.276  | (0.881) | 324244   | 160.000          | 158.0           |
| 98 N-Nitrosodiphenylamine      | 169               | 8.328  | 8.317  | (0.885) | 1542041  | 187.000          | 185.9(A)        |
| 100 Azobenzene                 | 77                | 8.359  | 8.348  | (0.889) | 1646477  | 160.000          | 142.7           |
| 101 4-Bromophenyl-phenylether  | 248               | 8.804  | 8.794  | (0.936) | 421894   | 160.000          | 164.0(A)        |
| 108 Hexachlorobenzene          | 284               | 8.980  | 8.981  | (0.955) | 465305   | 160.000          | 167.5(A)        |
| 110 Pentachlorophenol          | 266               | 9.250  | 9.240  | (0.983) | 293184   | 160.000          | 175.8(A)        |
| 114 Phenanthrene               | 178               | 9.447  | 9.437  | (1.004) | 2695719  | 160.000          | 162.4(A)        |
| 115 Anthracene                 | 178               | 9.509  | 9.499  | (1.011) | 2703105  | 160.000          | 161.8(A)        |
| 118 Carbazole                  | 167               | 9.768  | 9.768  | (1.039) | 2479487  | 160.000          | 159.5           |
| 120 Di-n-Butylphthalate        | 149               | 10.473 | 10.463 | (1.113) | 3164666  | 160.000          | 168.4(A)        |
| 126 Fluoranthene               | 202               | 11.312 | 11.302 | (1.203) | 2500453  | 160.000          | 167.3(A)        |
| 127 Benzidine                  | 184               | 11.582 | 11.571 | (0.840) | 1864289  | 160.000          | 168.3(A)        |
| 128 Pyrene                     | 202               | 11.664 | 11.665 | (0.846) | 2714930  | 160.000          | 160.9(A)        |
| 134 3,3'-dimethylbenzidine     | 212               | 12.877 | 12.867 | (0.934) | 1724989  | 160.000          | 181.4(A)        |
| 136 Butylbenzylphthalate       | 149               | 12.991 | 12.991 | (0.942) | 1401117  | 160.000          | 162.5(A)        |
| 138 Benzo(a)Anthracene         | 228               | 13.768 | 13.758 | (0.998) | 2393908  | 160.000          | 168.2(A)        |
| 139 Chrysene                   | 228               | 13.841 | 13.831 | (1.004) | 2422526  | 160.000          | 163.8(A)        |
| 140 3,3'-Dichlorobenzidine     | 252               | 13.810 | 13.799 | (1.002) | 915413   | 160.000          | 175.7(A)        |
| 141 bis(2-ethylhexyl)Phthalate | 149               | 14.110 | 14.110 | (1.023) | 1906885  | 160.000          | 160.7(A)        |
| 142 Di-n-octylphthalate        | 149               | 15.167 | 15.167 | (1.100) | 3253965  | 160.000          | 171.5(A)        |
| 144 Benzo(b)fluoranthene       | 252               | 15.592 | 15.582 | (0.964) | 2299398  | 160.000          | 173.0(AQ)       |
| 145 Benzo(k)fluoranthene       | 252               | 15.634 | 15.623 | (0.967) | 2475935  | 160.000          | 159.4(q)        |
| 147 Benzo(e)pyrene             | 252               | 16.017 | 16.007 | (0.990) | 2178628  | 160.000          | 165.4(A)        |
| 148 Benzo(a)pyrene             | 252               | 16.089 | 16.079 | (0.995) | 2387962  | 160.000          | 165.1(A)        |
| 151 Indeno(1,2,3-cd)pyrene     | 276               | 17.820 | 17.800 | (1.102) | 2617878  | 160.000          | 204.6(A)        |
| 152 Dibenzo(a,h)anthracene     | 278               | 17.862 | 17.841 | (1.104) | 2250528  | 160.000          | 171.6(A)        |
| 153 Benzo(g,h,i)perylene       | 276               | 18.255 | 18.235 | (1.129) | 2332007  | 160.000          | 165.9(A)        |

| Compounds                           | QUANT SIG |       |        | AMOUNTS |          |                  |                 |
|-------------------------------------|-----------|-------|--------|---------|----------|------------------|-----------------|
|                                     | MASS      | RT    | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| -----                               | ----      | ----- | -----  | -----   | -----    | -----            | -----           |
| M 162 benzo b,k Fluoranthene Totals | 252       |       |        |         | 4775333  | 160.000          | 165.7 (A)       |

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002G.D  
 Lab Smp Id: HSL\_160 ug/ml CS-7  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0313;0;8270F.M

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

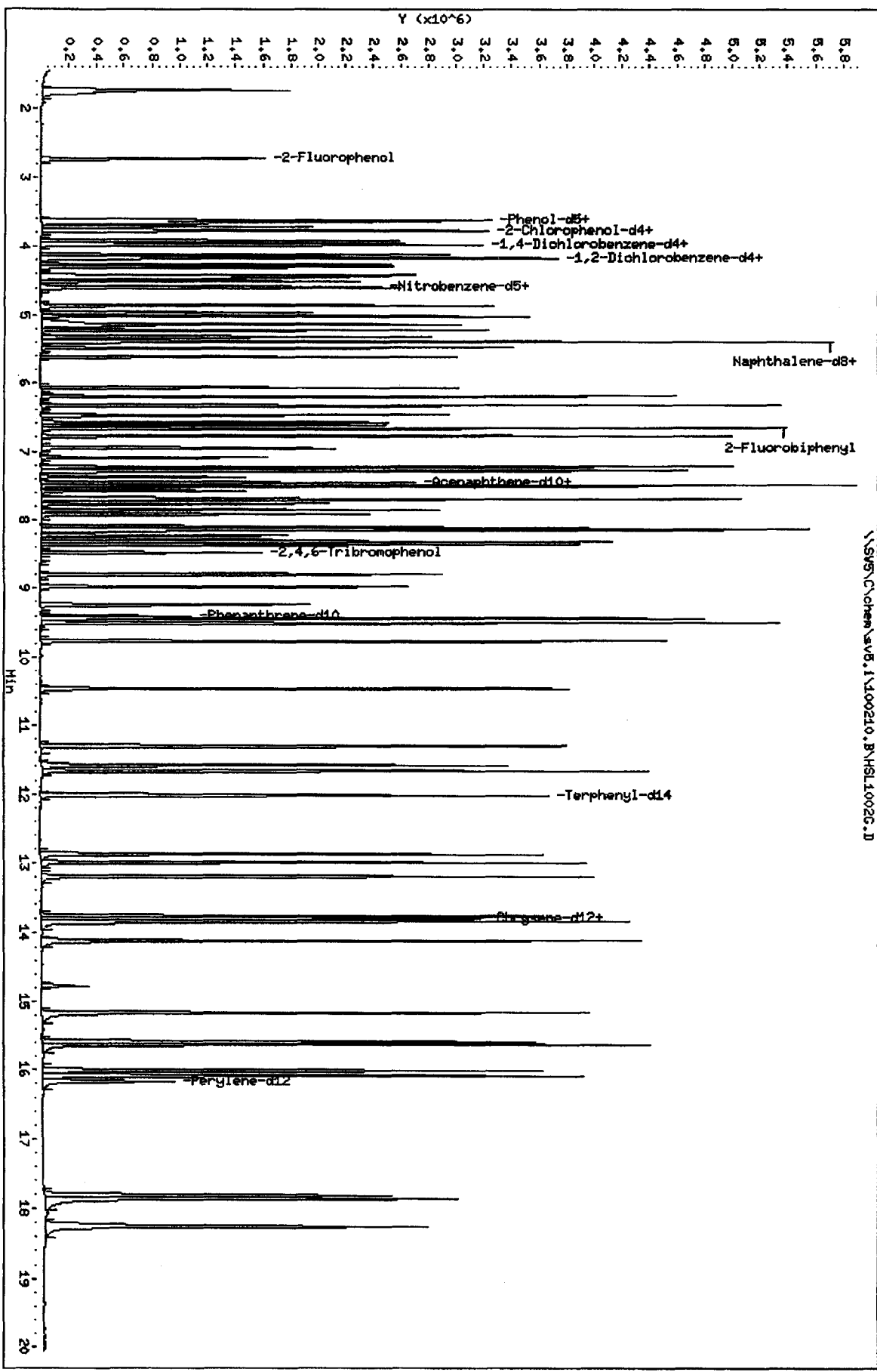
| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF |
|---------------------|----------|------------|---------|--------|-------|
|                     |          | LOWER      | UPPER   |        |       |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 141009 | 14.99 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 622461 | 17.33 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 328259 | 16.18 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 532284 | 15.03 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 539557 | 23.79 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 560436 | 32.72 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.96     | 3.46     | 4.46  | 3.95   | -0.00 |
| 2 Naphthalene-d8    | 5.37     | 4.87     | 5.87  | 5.37   | -0.00 |
| 3 Acenaphthene-d10  | 7.47     | 6.97     | 7.97  | 7.48   | 0.14  |
| 4 Phenanthrene-d10  | 9.41     | 8.91     | 9.91  | 9.41   | -0.00 |
| 5 Chrysene-d12      | 13.78    | 13.28    | 14.28 | 13.79  | 0.07  |
| 6 Perylene-d12      | 16.16    | 15.66    | 16.66 | 16.17  | 0.06  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV57\chem\sv5.1\100210.B\HSL1002G.D  
 Date: 02-OCT-2010 15:00  
 Client ID: 8270F.M  
 Sample Info: HSL\_160 ug/m1 CS-71111111111111111111  
 Column phase:

Instrument: sv5.1  
 Operator: KT  
 Column diameter: 2.00



TestAmerica West Sacramento  
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 02-OCT-2010 16:11  
 Lab File ID: HSL1002H.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010  
 Analysis Type: Init. Cal. Times: 17:32 15:00  
 Lab Sample ID: HSL 050 ug/ml ICV Quant Type: ISTD  
 Method: \\sv5\c\chem\sv5.i\100210.B\8270F.m

| COMPOUND                       | RRF / AMOUNT | RF50    | CCAL<br>RRF50 | MIN<br>RRF | %D / %DRIFT | MAX<br>%D / %DRIFT | CURVE TYPE |
|--------------------------------|--------------|---------|---------------|------------|-------------|--------------------|------------|
| \$ 7 2-Fluorophenol            | 1.40992      | 1.41047 | 1.41047       | 0.010      | 0.03876     | 50.00000           | Averaged   |
| \$ 8 Phenol-d5                 | 1.77296      | 1.74907 | 1.74907       | 0.010      | -1.34746    | 50.00000           | Averaged   |
| \$ 9 2-Chlorophenol-d4         | 1.55698      | 1.55303 | 1.55303       | 0.010      | -0.25385    | 50.00000           | Averaged   |
| \$ 10 1,2-Dichlorobenzene-d4   | 0.98513      | 0.98502 | 0.98502       | 0.010      | -0.01093    | 50.00000           | Averaged   |
| \$ 11 Nitrobenzene-d5          | 0.33879      | 0.32706 | 0.32706       | 0.010      | -3.46219    | 50.00000           | Averaged   |
| \$ 12 2-Fluorobiphenyl         | 1.28852      | 1.25302 | 1.25302       | 0.010      | -2.75502    | 50.00000           | Averaged   |
| \$ 13 2,4,6-Tribromophenol     | 0.17381      | 0.17822 | 0.17822       | 0.010      | 2.53174     | 50.00000           | Averaged   |
| \$ 14 Terphenyl-d14            | 0.78789      | 0.74054 | 0.74054       | 0.010      | -6.00962    | 50.00000           | Averaged   |
| 15 N-Nitrosodimethylamine      | 0.92154      | 0.91645 | 0.91645       | 0.010      | -0.55265    | 50.00000           | Averaged   |
| 16 Pyridine                    | 1.54111      | 1.49084 | 1.49084       | 0.010      | -3.26208    | 50.00000           | Averaged   |
| 23 Aniline                     | 2.25673      | 1.90520 | 1.90520       | 0.010      | -15.57680   | 50.00000           | Averaged   |
| 24 Phenol                      | 2.03729      | 2.01343 | 2.01343       | 0.010      | -1.17106    | 20.00000           | Averaged   |
| 26 Bis(2-chloroethyl) ether    | 1.42859      | 1.41690 | 1.41690       | 0.010      | -0.81844    | 50.00000           | Averaged   |
| 27 2-Chlorophenol              | 1.56381      | 1.57626 | 1.57626       | 0.010      | 0.79611     | 50.00000           | Averaged   |
| 28 1,3-Dichlorobenzene         | 1.70337      | 1.74104 | 1.74104       | 0.010      | 2.21094     | 50.00000           | Averaged   |
| 29 1,4-Dichlorobenzene         | 1.78118      | 1.77637 | 1.77637       | 0.010      | -0.26978    | 20.00000           | Averaged   |
| 30 Benzyl Alcohol              | 1.05101      | 1.07153 | 1.07153       | 0.010      | 1.95228     | 50.00000           | Averaged   |
| 31 1,2-Dichlorobenzene         | 1.63746      | 1.64144 | 1.64144       | 0.010      | 0.24267     | 50.00000           | Averaged   |
| 32 2-Methylphenol              | 1.43012      | 1.41817 | 1.41817       | 0.010      | -0.83592    | 50.00000           | Averaged   |
| 33 2,2'-oxybis(1-Chloropropane | 2.27365      | 2.14153 | 2.14153       | 0.010      | -5.81096    | 50.00000           | Averaged   |
| 34 4-Methylphenol              | 1.51904      | 1.42403 | 1.42403       | 0.010      | -6.25452    | 50.00000           | Averaged   |
| 36 Hexachloroethane            | 0.60636      | 0.62081 | 0.62081       | 0.010      | 2.38271     | 50.00000           | Averaged   |
| 37 N-Nitrosodimethylamine      | 1.01180      | 0.99863 | 0.99863       | 0.050      | -1.30217    | 50.00000           | Averaged   |
| 42 Nitrobenzene                | 0.33116      | 0.32452 | 0.32452       | 0.010      | -2.00546    | 50.00000           | Averaged   |
| 44 Isophorone                  | 0.63679      | 0.62370 | 0.62370       | 0.010      | -2.05513    | 50.00000           | Averaged   |
| 45 2-Nitrophenol               | 0.19648      | 0.20090 | 0.20090       | 0.010      | 2.25050     | 20.00000           | Averaged   |
| 46 2,4-Dimethylphenol          | 0.34911      | 0.33078 | 0.33078       | 0.010      | -5.25153    | 50.00000           | Averaged   |
| 47 Bis(2-chloroethoxy)methane  | 0.38908      | 0.37434 | 0.37434       | 0.010      | -3.78942    | 50.00000           | Averaged   |
| 49 2,4-Dichlorophenol          | 0.27010      | 0.26945 | 0.26945       | 0.010      | -0.23923    | 20.00000           | Averaged   |
| 50 Benzoic Acid                | 0.19324      | 0.20284 | 0.20284       | 0.010      | 4.96710     | 50.00000           | Averaged   |
| 51 1,2,4-Trichlorobenzene      | 0.29246      | 0.28203 | 0.28203       | 0.010      | -3.56320    | 50.00000           | Averaged   |
| 52 Naphthalene                 | 1.10443      | 1.07116 | 1.07116       | 0.010      | -3.01217    | 50.00000           | Averaged   |
| 54 4-Chloroaniline             | 0.43288      | 0.40664 | 0.40664       | 0.010      | -6.06033    | 50.00000           | Averaged   |
| 57 Hexachlorobutadiene         | 0.14313      | 0.14742 | 0.14742       | 0.010      | 2.99976     | 20.00000           | Averaged   |
| 60 4-Chloro-3-Methylphenol     | 0.30164      | 0.29442 | 0.29442       | 0.010      | -2.39317    | 20.00000           | Averaged   |
| 63 2-Methylnaphthalene         | 0.69378      | 0.71003 | 0.71003       | 0.010      | 2.34296     | 50.00000           | Averaged   |
| 66 Hexachlorocyclopentadiene   | 0.29846      | 0.32228 | 0.32228       | 0.050      | 7.98199     | 50.00000           | Averaged   |
| 69 2,4,6-Trichlorophenol       | 0.31913      | 0.32462 | 0.32462       | 0.010      | 1.71977     | 20.00000           | Averaged   |
| 70 2,4,5-Trichlorophenol       | 0.34380      | 0.34503 | 0.34503       | 0.010      | 0.35814     | 50.00000           | Averaged   |
| 71 2-Chloronaphthalene         | 1.12571      | 1.09768 | 1.09768       | 0.010      | -2.48963    | 50.00000           | Averaged   |
| 73 2-Nitroaniline              | 0.34119      | 0.32550 | 0.32550       | 0.010      | -4.59608    | 50.00000           | Averaged   |
| 76 Dimethylphthalate           | 1.29606      | 1.28355 | 1.28355       | 0.010      | -0.96554    | 50.00000           | Averaged   |

Handwritten signature and date: 10/2/10



TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 02-OCT-2010 16:11  
 Lab File ID: HSL1002H.D Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010  
 Analysis Type: Init. Cal. Times: 17:32 15:00  
 Lab Sample ID: HSL\_050 ug/ml ICV Quant Type: ISTD  
 Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

| COMPOUND                          | RF50         |          | CCAL    | MIN   | MAX         |             | CURVE TYPE |
|-----------------------------------|--------------|----------|---------|-------|-------------|-------------|------------|
|                                   | RRF / AMOUNT | RF50     | RRF50   | RRF   | %D / %DRIFT | %D / %DRIFT |            |
| 77 Acenaphthylene                 | 1.96037      | 1.90194  | 1.90194 | 0.010 | -2.98044    | 50.00000    | Averaged   |
| 79 2,6-Dinitrotoluene             | 0.30197      | 0.30334  | 0.30334 | 0.010 | 0.45457     | 50.00000    | Averaged   |
| 80 3-Nitroaniline                 | 0.37691      | 0.37836  | 0.37836 | 0.010 | 0.38563     | 50.00000    | Averaged   |
| 81 Acenaphthene                   | 1.24787      | 1.19989  | 1.19989 | 0.010 | -3.84461    | 20.00000    | Averaged   |
| 82 2,4-Dinitrophenol              | 50.00000     | 48.07731 | 0.16950 | 0.050 | -3.84537    | 0.000e+000  | Quadratic  |
| 83 Dibenzofuran                   | 1.65612      | 1.64309  | 1.64309 | 0.010 | -0.78683    | 50.00000    | Averaged   |
| 84 4-Nitrophenol                  | 0.15634      | 0.16205  | 0.16205 | 0.050 | 3.65012     | 50.00000    | Averaged   |
| 86 2,4-Dinitrotoluene             | 0.39633      | 0.40639  | 0.40639 | 0.010 | 2.53669     | 50.00000    | Averaged   |
| 91 Fluorene                       | 1.37139      | 1.36209  | 1.36209 | 0.010 | -0.67828    | 50.00000    | Averaged   |
| 92 Diethylphthalate               | 1.32699      | 1.28445  | 1.28445 | 0.010 | -3.20581    | 50.00000    | Averaged   |
| 93 4-Chlorophenyl-phenylether     | 0.57019      | 0.56986  | 0.56986 | 0.010 | -0.05862    | 50.00000    | Averaged   |
| 94 4-Nitroaniline                 | 0.37361      | 0.40608  | 0.40608 | 0.010 | 8.68956     | 50.00000    | Averaged   |
| 97 4,6-Dinitro-2-methylphenol     | 50.00000     | 48.62001 | 0.13800 | 0.010 | -2.75999    | 0.000e+000  | Linear     |
| 98 N-Nitrosodiphenylamine         | 0.60628      | 0.49086  | 0.49086 | 0.010 | -19.03836   | 20.00000    | Averaged   |
| 100 Azobenzene                    | 0.78660      | 0.77322  | 0.77322 | 0.010 | -1.70096    | 50.00000    | Averaged   |
| 101 4-Bromophenyl-phenylether     | 0.19527      | 0.19536  | 0.19536 | 0.010 | 0.04546     | 50.00000    | Averaged   |
| 108 Hexachlorobenzene             | 0.21807      | 0.22026  | 0.22026 | 0.010 | 1.00466     | 50.00000    | Averaged   |
| 110 Pentachlorophenol             | 50.00000     | 50.72441 | 0.13218 | 0.010 | 1.44881     | 0.000e+000  | Linear     |
| 114 Phenanthrene                  | 1.26074      | 1.20864  | 1.20864 | 0.010 | -4.13307    | 50.00000    | Averaged   |
| 115 Anthracene                    | 1.25955      | 1.22825  | 1.22825 | 0.010 | -2.48429    | 50.00000    | Averaged   |
| 118 Carbazole                     | 1.15061      | 1.15083  | 1.15083 | 0.010 | 0.01942     | 50.00000    | Averaged   |
| 120 Di-n-Butylphthalate           | 1.38442      | 1.39149  | 1.39149 | 0.010 | 0.51078     | 50.00000    | Averaged   |
| 126 Fluoranthene                  | 1.12969      | 1.19302  | 1.19302 | 0.010 | 5.60642     | 20.00000    | Averaged   |
| 127 Benzidine                     | 0.81067      | 0.30175  | 0.30175 | 0.010 | -62.77740   | 50.00000    | Averaged   |
| 128 Pyrene                        | 1.25025      | 1.13023  | 1.13023 | 0.010 | -9.59978    | 50.00000    | Averaged   |
| 134 3,3'-dimethylbenzidine        | 0.71564      | 0.26880  | 0.26880 | 0.010 | -62.43954   | 50.00000    | Averaged   |
| 136 Butylbenzylphthalate          | 0.62663      | 0.58836  | 0.58836 | 0.010 | -6.10747    | 50.00000    | Averaged   |
| 138 Benzo(a)Anthracene            | 1.06548      | 0.99285  | 0.99285 | 0.010 | -6.81596    | 50.00000    | Averaged   |
| 139 Chrysene                      | 1.08994      | 1.04703  | 1.04703 | 0.010 | -3.93621    | 50.00000    | Averaged   |
| 140 3,3'-Dichlorobenzidine        | 0.40189      | 0.37691  | 0.37691 | 0.010 | -6.21534    | 50.00000    | Averaged   |
| 141 bis(2-ethylhexyl)Phthalate    | 0.86316      | 0.80149  | 0.80149 | 0.010 | -7.14468    | 50.00000    | Averaged   |
| 142 Di-n-octylphthalate           | 1.37975      | 1.27404  | 1.27404 | 0.010 | -7.66156    | 20.00000    | Averaged   |
| 144 Benzo(b)fluoranthene          | 0.90549      | 0.90498  | 0.90498 | 0.010 | -0.05663    | 50.00000    | Averaged   |
| 145 Benzo(k)fluoranthene          | 1.16236      | 1.22175  | 1.22175 | 0.010 | 5.10982     | 50.00000    | Averaged   |
| 147 Benzo(e)pyrene                | 0.94425      | 0.98421  | 0.98421 | 0.010 | 4.23177     | 50.00000    | Averaged   |
| 148 Benzo(a)pyrene                | 1.02655      | 0.95393  | 0.95393 | 0.010 | -7.07365    | 20.00000    | Averaged   |
| 151 Indeno(1,2,3-cd)pyrene        | 0.83029      | 0.81846  | 0.81846 | 0.010 | -1.42489    | 50.00000    | Averaged   |
| 152 Dibenzo(a,h)anthracene        | 0.92758      | 0.99090  | 0.99090 | 0.010 | 6.82730     | 50.00000    | Averaged   |
| 153 Benzo(g,h,i)perylene          | 1.00427      | 1.08674  | 1.08674 | 0.010 | 8.21177     | 50.00000    | Averaged   |
| M 162 benzo b,k Fluoranthene Tota | 2.06785      | 2.12673  | 2.12673 | 0.010 | 2.84748     | 50.00000    | Averaged   |

See RT  
 See AD  
 10/3/10

TestAmerica West Sacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002H.D  
 Lab Smp Id: HSL\_050 ug/ml ICV Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 16:11  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL\_050 ug/ml ICV;2;;4;;;4  
 Misc Info : 3;;0;1\_8270STD.SUB;10MSSV0314;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:20 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 8 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

| Compounds                       | QUANT SIG<br>MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|---------------------------------|-------------------|--------|--------|---------|----------|------------------|-----------------|
|                                 |                   |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4      | 152               | 3.954  | 3.954  | (1.000) | 98364    | 40.0000          |                 |
| * 2 Naphthalene-d8              | 136               | 5.374  | 5.374  | (1.000) | 431655   | 40.0000          |                 |
| * 3 Acenaphthene-d10            | 164               | 7.468  | 7.468  | (1.000) | 236662   | 40.0000          |                 |
| * 4 Phenanthrene-d10            | 188               | 9.405  | 9.405  | (1.000) | 380734   | 40.0000          |                 |
| * 5 Chrysene-d12                | 240               | 13.789 | 13.789 | (1.000) | 421719   | 40.0000          |                 |
| * 6 Perylene-d12                | 264               | 16.173 | 16.173 | (1.000) | 419419   | 40.0000          |                 |
| \$ 7 2-Fluorophenol             | 112               | 2.732  | 2.732  | (0.691) | 173424   | 50.0000          | 50.02           |
| \$ 8 Phenol-d5                  | 99                | 3.613  | 3.613  | (0.914) | 215057   | 50.0000          | 49.33           |
| \$ 9 2-Chlorophenol-d4          | 132               | 3.747  | 3.747  | (0.948) | 190953   | 50.0000          | 49.87           |
| \$ 10 1,2-Dichlorobenzene-d4    | 152               | 4.151  | 4.151  | (1.050) | 121113   | 50.0000          | 49.99           |
| \$ 11 Nitrobenzene-d5           | 82                | 4.576  | 4.576  | (0.852) | 176474   | 50.0000          | 48.27           |
| \$ 12 2-Fluorobiphenyl          | 172               | 6.680  | 6.680  | (0.895) | 370679   | 50.0000          | 48.62           |
| \$ 13 2,4,6-Tribromophenol      | 330               | 8.483  | 8.483  | (1.136) | 52721    | 50.0000          | 51.26           |
| \$ 14 Terphenyl-d14             | 244               | 12.017 | 12.017 | (0.871) | 390377   | 50.0000          | 47.00           |
| 15 N-Nitrosodimethylamine       | 74                | 1.706  | 1.706  | (0.431) | 112682   | 50.0000          | 49.72 (Q)       |
| 16 Pyridine                     | 79                | 1.726  | 1.726  | (0.437) | 183306   | 50.0000          | 48.37           |
| 23 Aniline                      | 93                | 3.654  | 3.654  | (0.924) | 234254   | 50.0000          | 42.21           |
| 24 Phenol                       | 94                | 3.623  | 3.623  | (0.916) | 247561   | 50.0000          | 49.41 (Q)       |
| 26 Bis(2-chloroethyl) ether     | 93                | 3.716  | 3.716  | (0.940) | 174215   | 50.0000          | 49.59           |
| 27 2-Chlorophenol               | 128               | 3.768  | 3.768  | (0.953) | 193809   | 50.0000          | 50.40           |
| 28 1,3-Dichlorobenzene          | 146               | 3.913  | 3.913  | (0.990) | 214069   | 50.0000          | 51.10           |
| 29 1,4-Dichlorobenzene          | 146               | 3.975  | 3.975  | (1.005) | 218414   | 50.0000          | 49.86           |
| 30 Benzyl Alcohol               | 108               | 4.120  | 4.120  | (1.042) | 131750   | 50.0000          | 50.98           |
| 31 1,2-Dichlorobenzene          | 146               | 4.172  | 4.172  | (1.055) | 201823   | 50.0000          | 50.12           |
| 32 2-Methylphenol               | 108               | 4.255  | 4.255  | (1.076) | 174371   | 50.0000          | 49.58           |
| 33 2,2'-oxybis(1-Chloropropane) | 45                | 4.296  | 4.296  | (1.086) | 263312   | 50.0000          | 47.09           |
| 34 4-Methylphenol               | 108               | 4.410  | 4.410  | (1.115) | 175092   | 50.0000          | 46.87           |
| 36 Hexachloroethane             | 117               | 4.504  | 4.504  | (1.139) | 76332    | 50.0000          | 51.19           |
| 37 N-Nitrosodipropylamine       | 70                | 4.442  | 4.442  | (1.123) | 122786   | 50.0000          | 49.35           |
| 42 Nitrobenzene                 | 77                | 4.597  | 4.597  | (0.855) | 175102   | 50.0000          | 49.00           |
| 44 Isophorone                   | 82                | 4.856  | 4.856  | (0.904) | 336530   | 50.0000          | 48.97           |
| 45 2-Nitrophenol                | 139               | 4.960  | 4.960  | (0.923) | 108399   | 50.0000          | 51.12           |
| 46 2,4-Dimethylphenol           | 107               | 5.012  | 5.012  | (0.933) | 178479   | 50.0000          | 47.37           |

| Compounds                       | QUANT SIG |        |        |         | AMOUNTS  |                  |                 |
|---------------------------------|-----------|--------|--------|---------|----------|------------------|-----------------|
|                                 | MASS      | RT     | EXP RT | REL RT  | RESPONSE | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| 47 Bis(2-chloroethoxy)methane   | 93        | 5.126  | 5.126  | {0.954} | 201982   | 50.0000          | 48.10           |
| 49 2,4-Dichlorophenol           | 162       | 5.229  | 5.229  | {0.973} | 145389   | 50.0000          | 49.88           |
| 50 Benzoic Acid                 | 122       | 5.115  | 5.115  | {0.952} | 109446   | 50.0000          | 52.48           |
| 51 1,2,4-Trichlorobenzene       | 180       | 5.322  | 5.322  | {0.990} | 152177   | 50.0000          | 48.22           |
| 52 Naphthalene                  | 128       | 5.395  | 5.395  | {1.004} | 577964   | 50.0000          | 48.49           |
| 54 4-Chloroaniline              | 127       | 5.488  | 5.488  | {1.021} | 219411   | 50.0000          | 46.97           |
| 57 Hexachlorobutadiene          | 225       | 5.613  | 5.613  | {1.044} | 79543    | 50.0000          | 51.50           |
| 60 4-Chloro-3-Methylphenol      | 107       | 6.069  | 6.069  | {1.129} | 158858   | 50.0000          | 48.80           |
| 63 2-Methylnaphthalene          | 142       | 6.203  | 6.203  | {1.154} | 383110   | 50.0000          | 51.17           |
| 66 Hexachlorocyclopentadiene    | 237       | 6.483  | 6.483  | {0.868} | 95339    | 50.0000          | 53.99           |
| 69 2,4,6-Trichlorophenol        | 196       | 6.587  | 6.587  | {0.882} | 96032    | 50.0000          | 50.86           |
| 70 2,4,5-Trichlorophenol        | 196       | 6.628  | 6.628  | {0.888} | 102070   | 50.0000          | 50.18           |
| 71 2-Chloronaphthalene          | 162       | 6.784  | 6.784  | {0.908} | 324725   | 50.0000          | 48.76           |
| 73 2-Nitroaniline               | 65        | 6.949  | 6.949  | {0.931} | 96293    | 50.0000          | 47.70           |
| 76 Dimethylphthalate            | 163       | 7.229  | 7.229  | {0.968} | 379709   | 50.0000          | 49.52           |
| 77 Acenaphthylene               | 152       | 7.281  | 7.281  | {0.975} | 562646   | 50.0000          | 48.51           |
| 79 2,6-Dinitrotoluene           | 165       | 7.302  | 7.302  | {0.978} | 89736    | 50.0000          | 50.23           |
| 80 3-Nitroaniline               | 138       | 7.457  | 7.457  | {0.999} | 111929   | 50.0000          | 50.19           |
| 81 Acenaphthene                 | 153       | 7.509  | 7.509  | {1.006} | 354961   | 50.0000          | 48.08           |
| 82 2,4-Dinitrophenol            | 184       | 7.582  | 7.582  | {1.015} | 50142    | 50.0000          | 48.08           |
| 83 Dibenzofuran                 | 168       | 7.706  | 7.706  | {1.032} | 486071   | 50.0000          | 49.61           |
| 84 4-Nitrophenol                | 109       | 7.675  | 7.675  | {1.028} | 47938    | 50.0000          | 51.82(Q)        |
| 86 2,4-Dinitrotoluene           | 165       | 7.768  | 7.768  | {1.040} | 120220   | 50.0000          | 51.27           |
| 91 Fluorene                     | 166       | 8.131  | 8.131  | {1.089} | 402944   | 50.0000          | 49.66           |
| 92 Diethylphthalate             | 149       | 8.100  | 8.100  | {1.085} | 379976   | 50.0000          | 48.40           |
| 93 4-Chlorophenyl-phenylether   | 204       | 8.152  | 8.152  | {1.092} | 168579   | 50.0000          | 49.97           |
| 94 4-Nitroaniline               | 138       | 8.214  | 8.214  | {1.100} | 120129   | 50.0000          | 54.34           |
| 97 4,6-Dinitro-2-methylphenol   | 198       | 8.276  | 8.276  | {0.880} | 65675    | 50.0000          | 48.62           |
| 98 N-Nitrosodiphenylamine       | 169       | 8.317  | 8.317  | {0.884} | 273788   | 58.6000          | 47.44           |
| 100 Azobenzene                  | 77        | 8.359  | 8.359  | {0.889} | 367990   | 50.0000          | 49.15           |
| 101 4-Bromophenyl-phenylether   | 248       | 8.804  | 8.804  | {0.936} | 92973    | 50.0000          | 50.02           |
| 108 Hexachlorobenzene           | 284       | 8.981  | 8.981  | {0.955} | 104824   | 50.0000          | 50.50           |
| 110 Pentachlorophenol           | 266       | 9.240  | 9.240  | {0.982} | 62906    | 50.0000          | 50.72           |
| 114 Phenanthrene                | 178       | 9.437  | 9.437  | {1.003} | 575211   | 50.0000          | 47.93           |
| 115 Anthracene                  | 178       | 9.509  | 9.509  | {1.011} | 584548   | 50.0000          | 48.76           |
| 118 Carbazole                   | 167       | 9.768  | 9.768  | {1.039} | 547701   | 50.0000          | 50.01           |
| 120 Di-n-Butylphthalate         | 149       | 10.473 | 10.473 | {1.113} | 662234   | 50.0000          | 50.26           |
| 126 Fluoranthene                | 202       | 11.302 | 11.302 | {1.202} | 567781   | 50.0000          | 52.80           |
| 127 Benzidine                   | 184       | 11.582 | 11.582 | {0.840} | 159069   | 50.0000          | 18.61           |
| 128 Pyrene                      | 202       | 11.665 | 11.665 | {0.846} | 595801   | 50.0000          | 45.20           |
| 134 3,3'-dimethylbenzidine      | 212       | 12.877 | 12.877 | {0.934} | 141696   | 50.0000          | 18.78           |
| 136 Butylbenzylphthalate        | 149       | 12.991 | 12.991 | {0.942} | 310154   | 50.0000          | 46.95           |
| 138 Benzo(a)Anthracene          | 228       | 13.758 | 13.758 | {0.998} | 523382   | 50.0000          | 46.59           |
| 139 Chrysene                    | 228       | 13.830 | 13.830 | {1.003} | 551943   | 50.0000          | 48.03           |
| 140 3,3'-Dichlorobenzidine      | 252       | 13.799 | 13.799 | {1.001} | 198689   | 50.0000          | 46.89           |
| 141 bis(2-ethylhexyl) Phthalate | 149       | 14.110 | 14.110 | {1.023} | 422505   | 50.0000          | 46.43           |
| 142 Di-n-octylphthalate         | 149       | 15.167 | 15.167 | {1.100} | 671608   | 50.0000          | 46.17           |
| 144 Benzo(b)fluoranthene        | 252       | 15.582 | 15.582 | {0.963} | 474456   | 50.0000          | 49.97(Q)        |
| 145 Benzo(k)fluoranthene        | 252       | 15.623 | 15.623 | {0.966} | 640533   | 50.0000          | 52.55           |
| 147 Benzo(e)pyrene              | 252       | 16.007 | 16.007 | {0.990} | 515993   | 50.0000          | 52.12           |
| 148 Benzo(a)pyrene              | 252       | 16.079 | 16.079 | {0.994} | 500123   | 50.0000          | 46.46           |
| 151 Indeno(1,2,3-cd)pyrene      | 276       | 17.810 | 17.810 | {1.101} | 429096   | 50.0000          | 49.29           |
| 152 Dibenzo(a,h)anthracene      | 278       | 17.851 | 17.851 | {1.104} | 519505   | 50.0000          | 53.41           |
| 153 Benzo(g,h,i)perylene        | 276       | 18.235 | 18.235 | {1.127} | 569749   | 50.0000          | 54.10           |

| Compounds                                    | QUANT SIG    |  |                |                |                |                  | AMOUNTS          |                 |
|--|--------------|--|----------------|----------------|----------------|------------------|------------------|-----------------|
|  | MASS         |  | RT             | EXP RT         | REL RT         | RESPONSE         | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| =====<br>M 162 benzo b,k Fluoranthene Totals | =====<br>252 |  | =====<br>===== | =====<br>===== | =====<br>===== | =====<br>1114989 | =====<br>50.0000 | =====<br>=====  |

QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002H.D  
 Lab Smp Id: HSL 050 ug/ml ICV  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;l\_8270STD.SUB;10MSSV0314;0;8270F.M

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

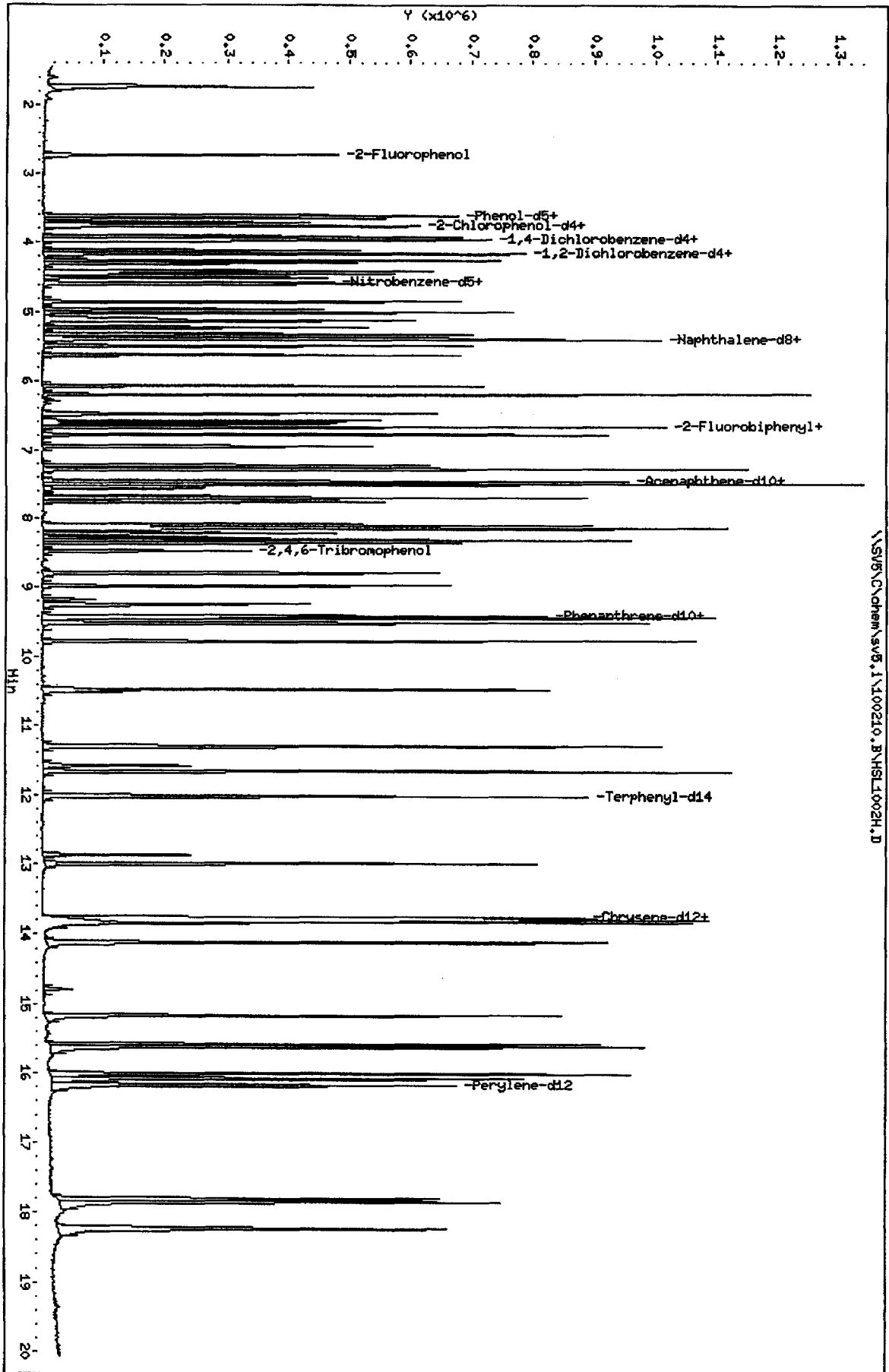
| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|---------------------|----------|------------|---------|--------|--------|
|                     |          | LOWER      | UPPER   |        |        |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 98364  | -19.78 |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 431655 | -18.63 |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 236662 | -16.24 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 380734 | -17.72 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 421719 | -3.24  |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 419419 | -0.68  |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.95     | 3.45     | 4.45  | 3.95   | 0.00  |
| 2 Naphthalene-d8    | 5.37     | 4.87     | 5.87  | 5.37   | 0.00  |
| 3 Acenaphthene-d10  | 7.47     | 6.97     | 7.97  | 7.47   | 0.00  |
| 4 Phenanthrene-d10  | 9.41     | 8.91     | 9.91  | 9.41   | 0.00  |
| 5 Chrysene-d12      | 13.79    | 13.29    | 14.29 | 13.79  | 0.00  |
| 6 Perylene-d12      | 16.17    | 15.67    | 16.67 | 16.17  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\SV8\C\chem\sv5,1\100210.B\HSL1002H.D  
 Date: 02-OCT-2010 16:11  
 Client ID: B270F.H  
 Sample Info: HSL\_050 ug/ml ICV2;4;4;4;4  
 Column phases:

Instrument: sv5.1  
 Operator: KT  
 Column diameter: 2.00



\\SV8\C\chem\sv5,1\100210.B\HSL1002H.D

TestAmerica West Sacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i                      Injection Date: 02-OCT-2010 16:36  
Lab File ID: HSL1002H1.D                Init. Cal. Date(s): 17-AUG-2010 02-OCT-2010  
Analysis Type:                            Init. Cal. Times: 17:32                      15:00  
Lab Sample ID: Benzidines ICV 50ug Quant Type: ISTD  
Method: \\sv5\c\chem\sv5.i\100210.B\8270f.m

| COMPOUND                   | CCAL         |         | MIN     | MAX   |             | CURVE TYPE |          |
|----------------------------|--------------|---------|---------|-------|-------------|------------|----------|
|                            | RRF / AMOUNT | RF50    | RRF50   | RRF   | %D / %DRIFT |            |          |
| 127 Benzidine              | 0.81067      | 0.92336 | 0.92336 | 0.010 | 13.89989    | 50.00000   | Averaged |
| 134 3,3'-dimethylbenzidine | 0.71564      | 0.78974 | 0.78974 | 0.010 | 10.35398    | 50.00000   | Averaged |
| 140 3,3'-Dichlorobenzidine | 0.40189      | 0.42433 | 0.42433 | 0.010 | 5.58428     | 50.00000   | Averaged |

✓  
10-3-10

TestAmerica West Sacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\100210.B\HSL1002H1.D  
 Lab Smp Id: Benzidines ICV 50ug Client Smp ID: 8270F.M  
 Inj Date : 02-OCT-2010 16:36  
 Operator : KT Inst ID: sv5.i  
 Smp Info : Benzidines ICV 50ug/mL;2;;4;;;4  
 Misc Info : 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Meth Date : 03-Oct-2010 11:13 truongk Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 9 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: BenzICV.SUB  
 Target Version: 4.14  
 Processing Host: SACP307UM

| Compounds                  | QUANT SIG | MASS | RT     | EXP RT | REL RT  | RESPONSE | AMOUNTS          |                 |
|----------------------------|-----------|------|--------|--------|---------|----------|------------------|-----------------|
|                            |           |      |        |        |         |          | CAL-AMT<br>( NG) | ON-COL<br>( NG) |
| * 1 1,4-Dichlorobenzene-d4 | -----     | 152  | 3.954  | 3.954  | (1.000) | 115503   | 40.0000          |                 |
| * 2 Naphthalene-d8         | -----     | 136  | 5.364  | 5.364  | (1.000) | 480485   | 40.0000          |                 |
| * 3 Acenaphthene-d10       | -----     | 164  | 7.468  | 7.468  | (1.000) | 254190   | 40.0000          |                 |
| * 4 Phenanthrene-d10       | -----     | 188  | 9.405  | 9.405  | (1.000) | 405333   | 40.0000          |                 |
| * 5 Chrysene-d12           | -----     | 240  | 13.779 | 13.779 | (1.000) | 378068   | 40.0000          |                 |
| * 6 Perylene-d12           | -----     | 264  | 16.162 | 16.162 | (1.000) | 372382   | 40.0000          |                 |
| 127 Benzidine              |           | 184  | 11.571 | 11.571 | (0.840) | 436364   | 50.0000          | 56.95           |
| 134 3,3'-dimethylbenzidine |           | 212  | 12.867 | 12.867 | (0.934) | 373217   | 50.0000          | 55.18           |
| 140 3,3'-Dichlorobenzidine |           | 252  | 13.799 | 13.799 | (1.002) | 200534   | 50.0000          | 52.79           |



TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL1002H1.D  
 Lab Smp Id: Benzidines ICV 50ug  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT

Calibration Date: 02-OCT-2010  
 Calibration Time: 13:44  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Method File: \\sv5\c\chem\sv5.i\100210.B\8270f.m  
 Misc Info: 3;;0;BenzICV.SUB;10MSSV0342;0;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

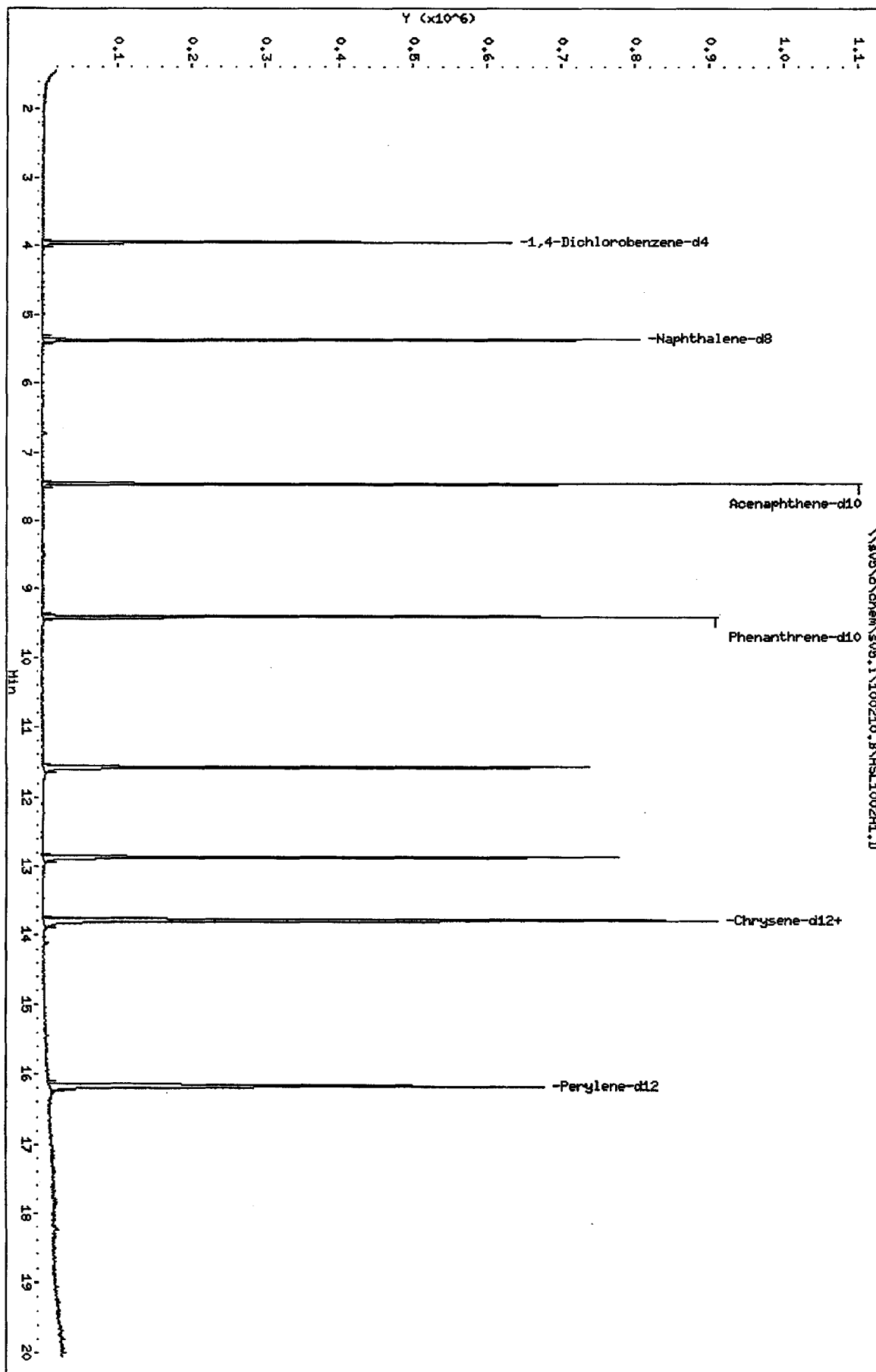
| COMPOUND            | STANDARD | AREA LIMIT |         | SAMPLE | %DIFF  |
|---------------------|----------|------------|---------|--------|--------|
|                     |          | LOWER      | UPPER   |        |        |
| 1 1,4-Dichlorobenze | 122625   | 61313      | 245250  | 115503 | -5.81  |
| 2 Naphthalene-d8    | 530514   | 265257     | 1061028 | 480485 | -9.43  |
| 3 Acenaphthene-d10  | 282538   | 141269     | 565076  | 254190 | -10.03 |
| 4 Phenanthrene-d10  | 462722   | 231361     | 925444  | 405333 | -12.40 |
| 5 Chrysene-d12      | 435850   | 217925     | 871700  | 378068 | -13.26 |
| 6 Perylene-d12      | 422284   | 211142     | 844568  | 372382 | -11.82 |

| COMPOUND            | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|---------------------|----------|----------|-------|--------|-------|
|                     |          | LOWER    | UPPER |        |       |
| 1 1,4-Dichlorobenze | 3.95     | 3.45     | 4.45  | 3.95   | 0.00  |
| 2 Naphthalene-d8    | 5.36     | 4.86     | 5.86  | 5.36   | 0.00  |
| 3 Acenaphthene-d10  | 7.47     | 6.97     | 7.97  | 7.47   | 0.00  |
| 4 Phenanthrene-d10  | 9.41     | 8.91     | 9.91  | 9.41   | 0.00  |
| 5 Chrysene-d12      | 13.78    | 13.28    | 14.28 | 13.78  | 0.00  |
| 6 Perylene-d12      | 16.16    | 15.66    | 16.66 | 16.16  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: \\sv5\chem\sv5.1\100210.B\HSL1002H1.D  
Date: 02-OCT-2010 16:36  
Client ID: 8270F.M  
Sample Info: Benzidines ICV 50ug/mL121141114  
Column phase:

Instrument: sv5.1  
Operator: KT  
Column diameter: 2.00



TestAmerica West Sacramento  
INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 02-OCT-2010 15:00  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:07 sv5.i  
 Curve Type : Average

Calibration File Names:

Level 1: \\SV5\C\chem\sv5.i\081710.B\AP90817A.D  
 Level 2: \\SV5\C\chem\sv5.i\081710.B\AP90817B.D  
 Level 3: \\SV5\C\chem\sv5.i\081710.B\AP90817C.D  
 Level 4: \\SV5\C\chem\sv5.i\081710.B\AP90817D.D  
 Level 5: \\SV5\C\chem\sv5.i\081710.B\AP90817E.D  
 Level 6: \\SV5\C\chem\sv5.i\081710.B\AP90817F.D  
 Level 7: \\SV5\C\chem\sv5.i\081710.B\AP90817G.D

*Original RRF* *10/3/10*

| Compound                    | 5.000              | 10.000  | 20.000  | 50.000  | 80.000  | 120.000 | RRF     | % RSD |
|-----------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
|                             | Level 1            | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |         |       |
|                             | 160.000            |         |         |         |         |         |         |       |
|                             | Level 7            |         |         |         |         |         |         |       |
| 15 N-Nitrosodimethylamine   | 0.92899<br>0.93833 | 0.88268 | 0.91048 | 0.91970 | 0.93146 | 0.93916 | 0.92154 | 2.162 |
| 16 Pyridine                 | 1.67117<br>1.52623 | 1.37423 | 1.59449 | 1.56610 | 1.52299 | 1.53256 | 1.54111 | 5.856 |
| 23 Aniline                  | 2.20796<br>2.33783 | 2.15935 | 2.19988 | 2.26058 | 2.29749 | 2.33400 | 2.25673 | 3.098 |
| 24 Phenol                   | 2.04111<br>2.06740 | 1.96212 | 2.02834 | 2.03430 | 2.06683 | 2.06089 | 2.03729 | 1.802 |
| 26 Bis(2-chloroethyl) ether | 1.47335<br>1.44264 | 1.38252 | 1.39491 | 1.43824 | 1.42549 | 1.44300 | 1.42859 | 2.170 |
| 27 2-Chlorophenol           | 1.52099<br>1.57039 | 1.55595 | 1.56903 | 1.58168 | 1.56789 | 1.58074 | 1.56381 | 1.328 |
| 28 1,3-Dichlorobenzene      | 1.68903<br>1.72457 | 1.69173 | 1.67754 | 1.73135 | 1.68641 | 1.72299 | 1.70337 | 1.294 |
| 29 1,4-Dichlorobenzene      | 1.77122<br>1.81444 | 1.79861 | 1.74013 | 1.76898 | 1.78200 | 1.79288 | 1.78118 | 1.352 |

TestAmerica West Sacramento

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 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\100210.B\8270f.m  
 Last Edit : 03-Oct-2010 11:07 sv5.i  
 Curve Type : Average

| Compound                        | 5.000              | 10.000  | 20.000  | 50.000  | 80.000  | 120.000 | RRF     | % RSD |
|---------------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
|                                 | Level 1            | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |         |       |
|                                 | 160.000            |         |         |         |         |         |         |       |
|                                 | Level 7            |         |         |         |         |         |         |       |
| 30 Benzyl Alcohol               | 1.01643<br>1.09506 | 1.03654 | 0.99182 | 1.04980 | 1.07792 | 1.08952 | 1.05101 | 3.697 |
| 31 1,2-Dichlorobenzene          | 1.62008<br>1.64691 | 1.63185 | 1.60455 | 1.68061 | 1.63410 | 1.64415 | 1.63746 | 1.459 |
| 32 2-Methylphenol               | 1.40818<br>1.47889 | 1.38930 | 1.39110 | 1.42620 | 1.45565 | 1.46154 | 1.43012 | 2.506 |
| 33 2,2'-oxybis(1-Chloropropane) | 2.29602<br>2.28770 | 2.22080 | 2.28329 | 2.27928 | 2.27018 | 2.27830 | 2.27365 | 1.085 |
| 34 4-Methylphenol               | 1.48606<br>1.58763 | 1.48913 | 1.46270 | 1.52239 | 1.52653 | 1.55886 | 1.51904 | 2.884 |
| 36 Hexachloroethane             | 0.60925<br>0.60919 | 0.60836 | 0.60573 | 0.61394 | 0.60427 | 0.59381 | 0.60636 | 1.043 |
| 37 N-Nitrosodipropylamine       | 0.94498<br>1.04757 | 0.97005 | 1.01302 | 1.02370 | 1.04700 | 1.03627 | 1.01180 | 3.926 |
| 42 Nitrobenzene                 | 0.32855<br>0.33901 | 0.32602 | 0.32543 | 0.33083 | 0.33379 | 0.33450 | 0.33116 | 1.489 |
| 44 Isophorone                   | 0.63431<br>0.65411 | 0.62291 | 0.61160 | 0.63344 | 0.63648 | 0.66468 | 0.63679 | 2.811 |
| 45 2-Nitrophenol                | 0.18608<br>0.20508 | 0.18833 | 0.18840 | 0.20021 | 0.20022 | 0.20702 | 0.19648 | 4.423 |
| 46 2,4-Dimethylphenol           | 0.34459<br>0.35785 | 0.34167 | 0.34307 | 0.34912 | 0.34788 | 0.35962 | 0.34911 | 2.028 |

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 Last Edit : 03-Oct-2010 11:07 sv5.i  
 Curve Type : Average

| Compound                      | 5.000<br>Level 1   | 10.000<br>Level 2 | 20.000<br>Level 3 | 50.000<br>Level 4 | 80.000<br>Level 5 | 120.000<br>Level 6 | 160.000<br>Level 7 | RRF     | % RSD  |
|-------------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|---------|--------|
| 47 Bis(2-chloroethoxy)methane | 0.41146<br>0.38545 | 0.37494           | 0.38565           | 0.38249           | 0.38500           | 0.39859            |                    | 0.38908 | 3.106  |
| 49 2,4-Dichlorophenol         | 0.25434<br>0.27809 | 0.26318           | 0.27019           | 0.27037           | 0.27274           | 0.28180            |                    | 0.27010 | 3.393  |
| 50 Benzoic Acid               | 0.16747<br>0.22180 | 0.16266           | 0.17423           | 0.19357           | 0.21024           | 0.22272            |                    | 0.19324 | 13.252 |
| 51 1,2,4-Trichlorobenzene     | 0.29430<br>0.29091 | 0.28827           | 0.28475           | 0.29747           | 0.29189           | 0.29959            |                    | 0.29246 | 1.760  |
| 52 Naphthalene                | 1.09939<br>1.10247 | 1.12462           | 1.07435           | 1.09325           | 1.09870           | 1.13821            |                    | 1.10443 | 1.900  |
| 54 4-Chloroaniline            | 0.40751<br>0.43867 | 0.42534           | 0.43264           | 0.43910           | 0.43781           | 0.44905            |                    | 0.43288 | 3.068  |
| 57 Hexachlorobutadiene        | 0.14295<br>0.14473 | 0.13812           | 0.14428           | 0.14415           | 0.14385           | 0.14379            |                    | 0.14313 | 1.589  |
| 60 4-Chloro-3-Methylphenol    | 0.29329<br>0.30839 | 0.28866           | 0.29079           | 0.30972           | 0.30295           | 0.31766            |                    | 0.30164 | 3.644  |
| 63 2-Methylnaphthalene        | 0.68483<br>0.69217 | 0.68064           | 0.68080           | 0.70067           | 0.70560           | 0.71172            |                    | 0.69378 | 1.797  |
| 66 Hexachlorocyclopentadiene  | 0.26878<br>0.33186 | 0.27757           | 0.28896           | 0.29704           | 0.30236           | 0.32262            |                    | 0.29846 | 7.645  |
| 69 2,4,6-Trichlorophenol      | 0.31186<br>0.33638 | 0.29820           | 0.30223           | 0.31996           | 0.32305           | 0.34225            |                    | 0.31913 | 5.157  |

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 Curve Type : Average

| Compound                 | 5.000              | 10.000  | 20.000  | 50.000  | 80.000  | 120.000 | RRF     | % RSD  |
|--------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
|                          | Level 1            | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |         |        |
|                          | 160.000            |         |         |         |         |         |         |        |
|                          | Level 7            |         |         |         |         |         |         |        |
| 70 2,4,5-Trichlorophenol | 0.30823<br>0.36135 | 0.32892 | 0.33796 | 0.36298 | 0.35236 | 0.35480 | 0.34380 | 5.807  |
| 71 2-Chloronaphthalene   | 1.13629<br>1.15096 | 1.09411 | 1.10012 | 1.14181 | 1.11220 | 1.14447 | 1.12571 | 2.051  |
| 73 2-Nitroaniline        | 0.31576<br>0.36278 | 0.31759 | 0.33397 | 0.35205 | 0.34821 | 0.35794 | 0.34119 | 5.573  |
| 76 Dimethylphthalate     | 1.23388<br>1.30237 | 1.25191 | 1.29803 | 1.34568 | 1.31165 | 1.32891 | 1.29606 | 3.093  |
| 77 Acenaphthylene        | 1.86531<br>2.02968 | 1.91304 | 1.91818 | 2.01646 | 1.98204 | 1.99786 | 1.96037 | 3.150  |
| 79 2,6-Dinitrotoluene    | 0.28347<br>0.31106 | 0.27378 | 0.29890 | 0.31220 | 0.31294 | 0.32140 | 0.30197 | 5.786  |
| 80 3-Nitroaniline        | 0.35362<br>0.39603 | 0.34622 | 0.35978 | 0.40036 | 0.38674 | 0.39559 | 0.37691 | 6.069  |
| 81 Acenaphthene          | 1.25874<br>1.25463 | 1.22468 | 1.26733 | 1.27046 | 1.21141 | 1.24781 | 1.24787 | 1.768  |
| 82 2,4-Dinitrophenol     | 0.10149<br>0.20232 | 0.11058 | 0.14485 | 0.16667 | 0.18378 | 0.20563 | 0.15933 | 26.349 |
| 83 Dibenzofuran          | 1.57786<br>1.71077 | 1.62124 | 1.65200 | 1.69530 | 1.65117 | 1.68450 | 1.65612 | 2.779  |
| 84 4-Nitrophenol         | 0.12712<br>0.17404 | 0.14148 | 0.15316 | 0.16076 | 0.17130 | 0.16653 | 0.15634 | 10.909 |

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|-------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
|                               | Level 1            | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |         |        |
|                               | 160.000            |         |         |         |         |         |         |        |
|                               | Level 7            |         |         |         |         |         |         |        |
| 86 2,4-Dinitrotoluene         | 0.34360<br>0.43110 | 0.35989 | 0.38479 | 0.42154 | 0.41035 | 0.42305 | 0.39633 | 8.616  |
| 91 Fluorene                   | 1.34567<br>1.40640 | 1.33840 | 1.34292 | 1.39902 | 1.38899 | 1.37835 | 1.37139 | 2.086  |
| 92 Diethylphthalate           | 1.22240<br>1.38087 | 1.29889 | 1.31549 | 1.37912 | 1.31873 | 1.37345 | 1.32699 | 4.319  |
| 93 4-Chlorophenyl-phenylether | 0.54964<br>0.57695 | 0.55917 | 0.56887 | 0.59265 | 0.56708 | 0.57695 | 0.57019 | 2.429  |
| 94 4-Nitroaniline             | 0.33346<br>0.40452 | 0.33747 | 0.37329 | 0.38337 | 0.39216 | 0.39102 | 0.37361 | 7.424  |
| 97 4,6-Dinitro-2-methylphenol | 0.09316<br>0.15229 | 0.10533 | 0.12545 | 0.13163 | 0.14105 | 0.15288 | 0.12883 | 17.707 |
| 98 N-Nitrosodiphenylamine     | 0.57756<br>0.61968 | 0.59736 | 0.60533 | 0.60433 | 0.62172 | 0.61801 | 0.60628 | 2.577  |
| 100 Azobenzene                | 0.77527<br>0.77331 | 0.76965 | 0.77321 | 0.79522 | 0.80064 | 0.81892 | 0.78660 | 2.371  |
| 101 4-Bromophenyl-phenylether | 0.18964<br>0.19815 | 0.18507 | 0.19281 | 0.19931 | 0.19607 | 0.20581 | 0.19527 | 3.488  |
| 108 Hexachlorobenzene         | 0.22958<br>0.21854 | 0.22054 | 0.20740 | 0.21605 | 0.21731 | 0.21704 | 0.21807 | 3.009  |
| 110 Pentachlorophenol         | 0.09427<br>0.13770 | 0.09851 | 0.11582 | 0.11736 | 0.13228 | 0.13923 | 0.11931 | 15.221 |

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|----------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
|                            | Level 1            | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |         |       |
|                            | 160.000            |         |         |         |         |         |         |       |
|                            | Level 7            |         |         |         |         |         |         |       |
| 114 Phenanthrene           | 1.30347<br>1.26611 | 1.26007 | 1.25408 | 1.24163 | 1.24375 | 1.25610 | 1.26074 | 1.643 |
| 115 Anthracene             | 1.25034<br>1.26958 | 1.21759 | 1.24206 | 1.25982 | 1.27529 | 1.30214 | 1.25955 | 2.129 |
| 118 Carbazole              | 1.13211<br>1.16455 | 1.12547 | 1.13694 | 1.14260 | 1.17067 | 1.18192 | 1.15061 | 1.878 |
| 120 Di-n-Butylphthalate    | 1.28492<br>1.48636 | 1.32287 | 1.36193 | 1.38164 | 1.41474 | 1.43847 | 1.38442 | 4.973 |
| 126 Fluoranthene           | 1.03840<br>1.17440 | 1.07611 | 1.17216 | 1.10520 | 1.15861 | 1.18294 | 1.12969 | 5.018 |
| 127 Benzidine              | 0.78175<br>0.86381 | 0.76431 | 0.75250 | 0.82658 | 0.82201 | 0.86375 | 0.81067 | 5.606 |
| 128 Pyrene                 | 1.25791<br>1.25794 | 1.23783 | 1.17078 | 1.28684 | 1.25586 | 1.28463 | 1.25025 | 3.122 |
| 134 3,3'-dimethylbenzidine | 0.65472<br>0.79926 | 0.64388 | 0.67361 | 0.70756 | 0.73630 | 0.79414 | 0.71564 | 8.888 |
| 136 Butylbenzylphthalate   | 0.64984<br>0.64920 | 0.60187 | 0.59142 | 0.62586 | 0.61590 | 0.65233 | 0.62663 | 3.950 |
| 138 Benzo(a)Anthracene     | 1.10169<br>1.10920 | 0.99731 | 1.03245 | 1.04489 | 1.06449 | 1.10831 | 1.06548 | 4.058 |
| 139 Chrysene               | 1.05284<br>1.12246 | 1.10175 | 1.06320 | 1.09705 | 1.06985 | 1.12241 | 1.08994 | 2.594 |



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|-------------------------------------|--------------------|---------|---------|---------|---------|---------|---------|--------|
|                                     | Level 1            | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |         |        |
|                                     | 160.000            |         |         |         |         |         |         |        |
|                                     | Level 7            |         |         |         |         |         |         |        |
| 140 3,3'-Dichlorobenzidine          | 0.39148<br>0.42415 | 0.37695 | 0.39090 | 0.39906 | 0.40353 | 0.42717 | 0.40189 | 4.539  |
| 141 bis(2-ethylhexyl)Phthalate      | 0.91826<br>0.88354 | 0.80897 | 0.84032 | 0.85193 | 0.84371 | 0.89539 | 0.86316 | 4.348  |
| 142 Di-n-octylphthalate             | 1.34838<br>1.50770 | 1.23185 | 1.35627 | 1.34433 | 1.39356 | 1.47616 | 1.37975 | 6.651  |
| 144 Benzo(b)fluoranthene            | 0.81012<br>1.02572 | 0.81077 | 0.82747 | 0.99930 | 0.95373 | 0.91132 | 0.90549 | 10.058 |
| 145 Benzo(k)fluoranthene            | 1.22939<br>1.10447 | 1.16528 | 1.20022 | 1.09895 | 1.14223 | 1.19597 | 1.16236 | 4.279  |
| 147 Benzo(e)pyrene                  | 0.90394<br>0.97185 | 0.92734 | 0.90757 | 0.95977 | 0.96997 | 0.96929 | 0.94425 | 3.220  |
| 148 Benzo(a)pyrene                  | 0.98300<br>1.06523 | 0.97686 | 0.99402 | 1.02789 | 1.07610 | 1.06275 | 1.02655 | 4.111  |
| 151 Indeno(1,2,3-cd)pyrene          | 0.73783<br>0.97995 | 0.73267 | 0.73671 | 0.84698 | 0.84057 | 0.93730 | 0.83029 | 12.151 |
| 152 Dibenzo(a,h)anthracene          | 0.88099<br>1.00392 | 0.84384 | 0.87256 | 0.92240 | 0.95990 | 1.00944 | 0.92758 | 7.071  |
| 153 Benzo(g,h,i)perylene            | 0.96025<br>1.04026 | 0.98457 | 0.97380 | 0.99974 | 1.01731 | 1.05397 | 1.00427 | 3.452  |
| M 162 benzo b,k Fluoranthene Totals | 2.03951<br>2.13019 | 1.97605 | 2.02770 | 2.09825 | 2.09596 | 2.10729 | 2.06785 | 2.649  |

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|------------------------------|--------------------|---------|---------|---------|---------|---------|---------|-------|
|                              | Level 1            | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |         |       |
|                              | 160.000            |         |         |         |         |         |         |       |
|                              | Level 7            |         |         |         |         |         |         |       |
| \$ 7 2-Fluorophenol          | 1.44503<br>1.43635 | 1.30436 | 1.38373 | 1.44170 | 1.43535 | 1.42292 | 1.40992 | 3.615 |
| \$ 8 Phenol-d5               | 1.72227<br>1.83627 | 1.67335 | 1.74151 | 1.79006 | 1.80863 | 1.83864 | 1.77296 | 3.520 |
| \$ 9 2-Chlorophenol-d4       | 1.47770<br>1.57804 | 1.55530 | 1.53916 | 1.59414 | 1.57486 | 1.57967 | 1.55698 | 2.524 |
| \$ 10 1,2-Dichlorobenzene-d4 | 0.95776<br>0.98896 | 0.98111 | 0.99827 | 0.98914 | 0.99518 | 0.98547 | 0.98513 | 1.356 |
| \$ 11 Nitrobenzene-d5        | 0.33028<br>0.33970 | 0.34256 | 0.33065 | 0.34105 | 0.33606 | 0.35127 | 0.33879 | 2.162 |
| \$ 12 2-Fluorobiphenyl       | 1.28499<br>1.30010 | 1.26007 | 1.27668 | 1.34206 | 1.25854 | 1.29723 | 1.28852 | 2.226 |
| \$ 13 2,4,6-Tribromophenol   | 0.15034<br>0.18390 | 0.16527 | 0.17466 | 0.17926 | 0.17825 | 0.18501 | 0.17381 | 7.052 |
| \$ 14 Terphenyl-d14          | 0.78508<br>0.80107 | 0.78616 | 0.73917 | 0.80441 | 0.78047 | 0.81889 | 0.78789 | 3.214 |

**Sample Extraction/Preparation Log**  
**Copies and Checklists**

**TestAmerica West Sacramento**  
**Organic Prep Log**  
**8270 Air**

Box # Air Tox#289  
 Shared QC Batch: N/A  
 Shares QC With: N/A



| Internal COC:       |                 |
|---------------------|-----------------|
| Delivered to Inst.: | <u>10/12/10</u> |
| Inst Receipt:       |                 |

| Prep Reagents   |          |        |
|-----------------|----------|--------|
| Reagent         | Supplier | Lot #  |
| 1:1 DCM:Acetone | NA       | N/A    |
| DCM             | Baker    | J25501 |
| Na2SO4          | Baker    | N/A    |
|                 |          |        |
|                 |          |        |

**Batch: 0284217**  
 MS Run #:  
 Prep Date: 10/11/2010  
 Method: JZ TO-13  
 Matrix: S AIR  
 Extraction: 11 SOXHLET (NONE,Na2SO4)  
 QC: 3W AMBIENT AIR TESTING  
 SAC: JZ - S - 11 - 3W

**\*RUSH\***

WS-OP-0006

Soxhlet time on: 15:00 (10/11/10) Soxhlet time off: 7:10 (10/12/10) ECF

| Extraction Table |      |            |                              |             |              |       |                            |
|------------------|------|------------|------------------------------|-------------|--------------|-------|----------------------------|
| Sample ID        | Suff | Work Order | Extraction Hold Time Expires | Sample size | Final Volume |       | Analysis Hold Time Expires |
|                  |      |            |                              |             | 1mL          | Other |                            |
| GOJ090500 - 9    |      | L78WJ1AA   | 10/14/2010                   | 1.0         | ✓            |       | 11/16/2010                 |
| GOJ090500 - 10   |      | L78WK1AA   | 10/14/2010                   | 1.0         | ✓            |       | 11/16/2010                 |
| GOJ110000 - 217  | B    | L79L71AA   | 10/14/2010                   | 1.0         | ✓            |       | 11/16/2010                 |
| GOJ110000 - 217  | C    | L79L71AC   | 10/14/2010                   | 1.0         | ✓            |       | 11/16/2010                 |
| GOJ110000 - 217  | L    | L79L71AD   | 10/14/2010                   | 1.0         | ✓            |       | 11/16/2010                 |

- XAD / PUF / PUF-XAD
- Filter
- Impinger

Comments/NCMs: QC Media: P090910/sup2sv17333 ECF 10/11/10

|   | ID                                | Spike Exp Date:            | Spiked By:          | Witnessed By:       | Date:               |
|---|-----------------------------------|----------------------------|---------------------|---------------------|---------------------|
| Surrogate Spike All Samples                 | <u>500µl/10AIR025/ABN Surr</u>    | <u>4/4/11</u>              | <u>ECF</u>          | <u>JZ</u>           | <u>10/11/10</u>     |
| Spike Mix LCS/LCSD/MS/MS ECF 10/11/10       | <u>1.0ml/10AIR026/9270 LCSmix</u> | <u>4/9/11</u>              | <u>ECF</u>          | <u>JZ</u>           | <u>10/11/10</u>     |
| Pre-Spike Standard All Samples ECF 10/11/10 | <u>250µl/10AIR020/1,2-DCB-d4</u>  | <u>2/27/11</u>             | <u>ECF</u>          | <u>JZ</u>           | <u>10/11/10</u>     |
| Internal Standard All Samples               | <u>20µl 10AIR020084</u>           | <u>4/8/11</u>              | <u>ECF</u>          | <u>JZ</u>           | <u>10/13/10</u>     |
| Soxhlet Extraction Analyst/Date             | <u>ECF 10/11/10</u>               | Concentration Analyst/Date | <u>ECF 10/12/10</u> | KD Analyst/Date     | <u>ECF 10/12/10</u> |
| Liq Liq Extraction Analyst/Date             | <u>N/A</u>                        | KD Temp <u>83°C</u>        | Review Analyst/Date | <u>ECF 10/13/10</u> |                     |

## Preparation Data Review Checklist

Prep Batch(es) 0284217

Test: TO-13

Prep Date: 10/11/10

Holding Times: 10/14/10 NCM: Y **(N)**

| A. Spike Witness/Batch setup  | Spike Witness | Reviewer |
|---|---------------|----------|
| 1. Holding times checked? NCMs filed as appropriate   | ✓             | ✓        |
| 2. QAS checked for QC instructions (LCS, LCSD, MS,MSD, etc)                                 | ✓             | ✓        |
| 3. Amount of samples in hood match amount of samples on bench sheet. Sample IDS match.      | ✓             | NA       |
| 4. Worksheets have been checked for required spiking compounds                              | ✓             | ✓        |
| 5. Spiking volumes are correctly documented   | ✓             | ✓        |
| 6. Std ID numbers on spike labels match numbers on bench sheet                              | ✓             | NA       |
| 7. Expiration dates have been checked   | ✓             | ✓        |
| 8. Calibration expiration dates on pipettors have been checked                              | ✓             | NA       |
| 9. Spiker and spike witness have signed and dated bench sheet                               | ✓             | ✓        |
| <b>B. Weights and Volumes</b>   |               |          |
| 1. Recorded weights are in anticipated range  | NA            | ✓        |
| 2. Balance upload or raw data for weights is included                                       | NA            | ✓        |
| 3. Weights and volumes have been transcribed correctly to LIMS.                             | NA            | ✓        |
| 4. Weights are not targeted to meet exact weights.  | NA            | ✓        |
| 5. Each weight or volume measurement is a unique record (no dittos or line downs)           | NA            | ✓        |
| <b>C. Standards and Reagents</b>  |               |          |
| 1. Lot numbers for all reagents, including clean up stages, are recorded.                   | NA            | ✓        |
| 2. Are dates and analysts for cleanups recorded?  | NA            | ✓        |
| 3. Are correct IDs used for standards? Are expiration dates to day/month/year, when listed? | NA            | ✓        |
| <b>D. Documentation</b>   |               |          |
| 1. Are all nonconformances documented appropriately?  | NA            | ✓        |
| 2. QuantIMs entry correct, including dates and times.                                       | NA            | ✓        |
| 3. Are all fields completed?  | NA            | ✓        |

Spike witness: JZ

Date: 10/11/10

2<sup>nd</sup> Level Reviewer: R. Dumb

Date: 10/13/10

Comments:

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RQC058

TestAmerica Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 10/12/10  
Time: 10:25:55

|     |     |     |     |
|-----|-----|-----|-----|
| LEV | LEV | LEV | LEV |
| 1   | 2   | 1   | 2   |
| Y   | -   | Y   | -   |
| Y   | -   | Y   | -   |
| -   | -   | Y   | -   |

Blank Check MS/MSD  
Weights/Volumes  
Spike & Surrogate Worksheet  
Vial contains correct volume  
Labels, greenbars, worksheets  
computer batch: correct & all match  
Anomalies to Extraction Method

Expanded Deliverable  
COC Completed  
Bench Sheet Copied  
Package Submitted to Analytical Group  
Bench Sheet Copied per COC

Extractionist: 403162 erica X. larson

Concentrationist: 403162 erica X. larson

\*\*\*\*\*  
\* QC BATCH: 0284217 \*  
\* PREP DATE: 10/11/10 13:00  
\* COMP DATE: 10/12/10 15:00  
\*\*\*\*\*

Reviewer/Date: LARSONE / 10/12/10  
Semivolatile Organics by GCMS in Air (TO-13A)  
SOXHLET (NONE, Na2SO4)

| EXTR<br>EXPR | ANL<br>DUE | LOT#,<br>WORK ORDER          | MSRUN#/<br>TEST<br>FLGS | EXT<br>MTH | MATRIX | INIT/<br>WT/VOL | FIN<br>INIT | PH'S<br>ADJ1 | SOLVENTS<br>ADJ2 | EXTRACTION<br>VOL | EXCHANGE<br>VOL | SPIKE STANDARD/<br>SURROGATE ID                      |
|--------------|------------|------------------------------|-------------------------|------------|--------|-----------------|-------------|--------------|------------------|-------------------|-----------------|--|
| 10/14/10     | 10/15/10   | G0J090500-009<br>L78WJ-1-AA  | R 11 JZ AIR             | 1.00mL     | 1.00mL | NA              | NA          | NA           | DCM              | 700.0             | .0              | 500UL/10AIR0125/ABN SURR                             |
| COMMENTS:    |            |                              |                         |            |        |                 |             |              |                  |                   |                 |  |
| 10/14/10     | 10/15/10   | G0J090500-010<br>L78WK-1-AA  | R 11 JZ AIR             | 1.00mL     | 1.00mL | NA              | NA          | NA           | DCM              | 700.0             | .0              | 500UL/10AIR0125/ABN SURR                             |
| COMMENTS:    |            |                              |                         |            |        |                 |             |              |                  |                   |                 |  |
| 10/14/10     | 0/00/00    | G0J110000-217<br>L79L7-1-AAB | 11 JZ AIR               | 1.00mL     | 1.00mL | NA              | NA          | NA           | DCM              | 700.0             | .0              | 250UL/10AIR0120/1,2-DCB<br>500UL/10AIR0125/ABN SURR  |
| COMMENTS:    |            |                              |                         |            |        |                 |             |              |                  |                   |                 |  |
| 10/14/10     | 0/00/00    | G0J110000-217<br>L79L7-1-ACC | 11 JZ AIR               | 1.00mL     | 1.00mL | NA              | NA          | NA           | DCM              | 700.0             | .0              | 1.0ML/10AIR0126/8270 MIX<br>500UL/10AIR0125/ABN SURR |
| COMMENTS:    |            |                              |                         |            |        |                 |             |              |                  |                   |                 |  |
| 10/14/10     | 0/00/00    | G0J110000-217<br>L79L7-1-ADL | R 11 JZ AIR             | 1.00mL     | 1.00mL | NA              | NA          | NA           | DCM              | 700.0             | .0              | 1.0ML/10AIR0126/8270 MIX<br>500UL/10AIR0125/ABN SURR |
| COMMENTS:    |            |                              |                         |            |        |                 |             |              |                  |                   |                 |  |

QC MEDIA: P090910/SUP2SV17333

R = RUSH C = CLP  
E = EPA 600 D = EXP.DEL  
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 5

TestAmerica West Sacramento  
GC/MS Data Review Checklist

Batch: 0284217

Method ID: Semivolatile Organics by GCMS in Air (TO-13A)

NCM: (Y) N G0J090500

|  | Approved | Reviewed | N/A |
|--|----------|----------|-----|
| <b>A. ICAL</b>   |          |          |     |
| 1. ICAL or ICAL Summary and CCV included.  | ✓        | ✓        |     |
| 2. ICAL, CCV Criteria met.   | ✓        | ✓        |     |
| 3. Peaks correctly ID'd by data system.  | ✓        | ✓        |     |
| 4. Copy of logbook for ICAL included   | ✓        | ✓        |     |
| 5. Tune criteria (including tailing factor and breakdown) met and copy included.         | ✓        | ✓        |     |
| 6. Method Number is identified on data.  | ✓        | ✓        |     |
| <b>B. QA/QC</b>  |          |          |     |
| 1. Method blank, LCS/LCSD and MS/SD frequencies met.                                     | ✓        | ✓        |     |
| 2. LCS/LCSD and MB data is included.   | ✓        | ✓        |     |
| 3. LCS/LCSD and MB data are within control limits. If not, NCM is present in Clouseau.   | ✓        | ✓        |     |
| 4. MS/MSD data complete.   |          |          | ✓   |
| 5. Holding Times were met.   | ✓        | ✓        |     |
| 6. All samples within tune time.   | ✓        | ✓        |     |
| <b>C. Sample Analysis</b>  |          |          |     |
| 1. Logbook copies for all injections made, including ICV standards and ICAL.             | ✓        | ✓        |     |
| 2. Logbooks/prep sheets properly filled out.   | ✓        | ✓        |     |
| 3. Manual Integrations reviewed and appropriate.   | ✓        | ✓        |     |
| 4. All raw data for samples is included (applies to unused data as well)                 | ✓        | ✓        |     |
| 5. All analytes correctly reported.  | ✓        | ✓        |     |
| 6. Correct reporting limits used. (based on client request, prep factors, and dilutions) | ✓        | ✓        |     |
| 7. Spectra present for all positives.  | ✓        | ✓        |     |
| <b>D. Documentation</b>  |          |          |     |
| 1. Are all nonconformances documented appropriately?                                     | ✓        | ✓        |     |
| 2. Quantims entry correct, including dates and times.                                    | ✓        | ✓        |     |
| 3. Appropriate footnotes used.   | ✓        | ✓        |     |

Analyst: [Signature]

Date: 10/15/10

2<sup>nd</sup> Level Reviewer: [Signature]

Date: 10/18/10

Comments: \_\_\_\_\_  
\_\_\_\_\_  
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