

August 31, 2010

**TestAmerica Project Number: G0H210471**

PO/Contract: 2027.01

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 August 20, 2010. These samples are associated with your Tronox Henderson 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 G0H210471

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

Sample(s): 1, 2, 3, 4

The bracketing continuing calibration standard, analyzed September 26, 2010 at 07:16, has 1,2,3,4,7,8-HxCDF with percent difference values that are between the method recommended criteria of 20% to 25% deviation from the initial calibration curve. Per method guidelines, an average relative response factor (1.23) is calculated from bracketing continuing calibration standards and is used to quantitate any positive results in the associated samples for the affected analytes. There is no impact on the data as a result of this anomaly.

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.

At first glance the recoveries for the TO-9 Surrogate appear to be out of control. There was a change made in the standards used for spiking and the initial calibration between the time the media was shipped and when the samples were received back in the laboratory. The surrogate solution and the standard used for the ICAL were at the same concentration when the media was sent out. The new ICAL used a surrogate solution one half (1/2) the concentration of that previously used as the surrogate in the air media and as a result the concentration is being calculated as two times higher than the actual value. There is no impact on data quality, and no corrective action is necessary.

Sample(s): 2

The result for 2, 3, 7, 8-TCDF is reported from the confirmation analysis that occurred on August 29, 2010.

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

Sample(s): 5, 6, 7, 8

Water was noticed in the soxhlet bodies of the samples after extraction. This was caused by the condensation from the condensers leaking into the soxhlet bodies during the extraction step.

The recoveries for surrogate 1,2-Dichlorobenzene-d4 in the above listed samples were low and outside criteria. However, the surrogate recoveries in the associated method blank and laboratory control sample (LCS) were within established control limits. The results may be biased low. The low recoveries were confirmed by re-analysis. As these are air samples, re-extraction is not possible.

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 G0H210471

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
L507E	1	UW-08182010	8/18/2010 05:11 AM	8/20/2010 09:30 AM
L507F	2	DW-08182010	8/18/2010 05:49 AM	8/20/2010 09:30 AM
L507G	3	DW-08192010	8/19/2010 05:30 AM	8/20/2010 09:30 AM
L507H	4	UW-08192010	8/19/2010 05:01 AM	8/20/2010 09:30 AM
L507J	5	UW-08182010	8/18/2010 05:20 AM	8/20/2010 09:30 AM
L507K	6	DW-08182010	8/18/2010 05:44 AM	8/20/2010 09:30 AM
L507L	7	DW-08192010	8/19/2010 05:27 AM	8/20/2010 09:30 AM
L507M	8	UW-08192010	8/19/2010 05:07 AM	8/20/2010 09:30 AM
L507N	9	UW-08182010	8/18/2010 05:02 AM	8/20/2010 09:30 AM
L507P	10	DW-08182010	8/18/2010 05:55 AM	8/20/2010 09:30 AM
L507Q	11	DW-08192010	8/19/2010 05:41 AM	8/20/2010 09:30 AM
L507R	12	UW-08192010	8/19/2010 04:57 AM	8/20/2010 09:30 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.

**COPY**

Required Project Information:		Required Invoice Information:		Total # of Samples:		Event Complete?														
Lab Name: Test America Laboratories Inc	Site ID #102	TRONOX LLC, HENDERSON	Send Invoice to: Susan Crowley Tronox LLC.	Regul:	Philred															
Address: 880 Riverside Parkway	Project #	2027.01	Address: PO Box 85																	
West Sacramento, CA 95605	Site Address	560 W Lake Mead Pkwy	City/State:	Henderson, NV 89009	Phone #:	(949) 280-9253														
Lab P/N: David Altucher	City	Henderson	State, Zip	NV, 89015	PO #															
Phone/Fax: (916) 373-5800	Site PM Name	David Altucher	Send EDD to	Frank.Hagar@ngm.com																
Lab PM email: David.Altucher@testamericainc.com	Phone/Fax:	(916) 373-7004	CC Handcopy report to	PDF Electronic Version Only - FTP Upload																
Applicable Lab Quota #:	Site PM Email:	daltucher@ngm.com	CC Handcopy report to	See Additional Comments Below																
#	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-GRAB O-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/Lab Sample I.D.	Analytical	Preservative	Filtered	Temp in			Sample Receipt Conditions			Trip Blank?	
													OC	on Ice?	Sample Intact?	Y/N	Y/N	Y/N		Y/N
	UW-08182010		AA			08/18/2010 5:02 AM	08/18/2010 5:55 AM	1	650.6 / M <sup>3</sup>	✓										
	DW-08182010		AA			08/18/2010 5:11 AM	08/18/2010 5:20 AM	1	632.19 M <sup>3</sup>	✓										
	UW-08182010		AA			08/18/2010 5:49 AM	08/18/2010 5:49 AM	1	430.93 M <sup>3</sup>	✓										
	DW-08182010		AA			08/18/2010 5:49 AM	08/18/2010 5:49 AM	1	452.04 M <sup>3</sup>	✓										
	DW-08182010		AA			08/18/2010 5:49 AM	08/18/2010 5:49 AM	1	422.31 M <sup>3</sup>	✓										
	DW-08192010		AA			08/19/2010 5:49 AM	08/19/2010 5:49 AM	1	651.00 M <sup>3</sup>	✓										
	UW-08192010		AA			08/19/2010 5:57 AM	08/19/2010 5:57 AM	1	668.50 M <sup>3</sup>	✓										
	DW-08192010		AA			08/19/2010 5:57 AM	08/19/2010 5:57 AM	1	423.35 M <sup>3</sup>	✓										
	DW-08192010		AA			08/19/2010 5:57 AM	08/19/2010 5:57 AM	1	449.71 M <sup>3</sup>	✓										
	UW-08192010		AA			08/19/2010 5:57 AM	08/19/2010 5:57 AM	1	439.90 M <sup>3</sup>	✓										
	UW-08192010		AA			08/19/2010 5:57 AM	08/19/2010 5:57 AM	1	444.75 M <sup>3</sup>	✓										

**Alltucker, David**

---

**From:** David Behnken [david.behnken@ngem.com]  
**Sent:** Thursday, August 19, 2010 9:31 PM  
**To:** Weidenfeld, Robert; Alltucker, David  
**Subject:** Please place TSP / Metals on hold

Hello Dave, Robert,

Please place **on hold** the samples collected on 8/18/10 and 8/19/10 for TSP: metals (Arsenic and Manganese).

I will confirm ASAP weather on not we will need to run these analyses for this batch.

What are the hold time for these analyses?

Best Regards,  
David

**David T. Behnken**  
Project Engineer

Northgate Environmental Management, Inc.  
300 Frank H. Ogawa Plaza, Suite 510, Oakland, CA 94612  
general (510) 839-0688; fax (510) 839-4350  
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<http://www.ngem.com>

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CLIENT North gate PM 08 <sup>RW</sup> LOG # 46504  
LOT# (QUANTIMS ID) G0H210471 QUOTE# 84007 LOCATION W/40 AC  
DATE RECEIVED 8-20-10 TIME RECEIVED 930 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) \_\_\_\_\_  
SHIPPING CONTAINER(S)  TAL  CLIENT  N/A   
COC #(S) N/A   
TEMPERATURE BLANK Observed: \_\_\_\_\_ Corrected: \_\_\_\_\_  
SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C) See temp. sheet  
Observed: \_\_\_\_\_ Average \_\_\_\_\_ Corrected Average \_\_\_\_\_  
**LABORATORY THERMOMETER ID:**  
IR UNIT: #4  #5  OTHER \_\_\_\_\_  
Initials Bj Date 8-20-10

pH MEASURED  YES  ANOMALY  N/A   
LABELED BY.....   
LABELS CHECKED BY.....   
PEER REVIEW \_\_\_\_\_  N/A  
SHORT HOLD TEST NOTIFICATION  METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL  N/A  
SAMPLE RECEIVING   
WETCHEM  N/A  
VOA-ENCORES  N/A  
 COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES  N/A  
 CLOUSEAU  TEMPERATURE EXCEEDED (2 °C - 6 °C)\*1  N/A  
 WET ICE  BLUE ICE  GEL PACK  NO COOLING AGENTS USED  PM NOTIFIED  
Initials nr Date 8-21-10

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

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



CLIENT: North gate LOT# (QUANTIMS ID): G0H210471  
Checked (✓)

TEMPERATURE RECORD (IN °C) : IR 4  5  OTHER   
COOLER ID 1   
CUSTODY SEAL STATUS  INTACT  BROKEN  N/A   
CUSTODY SEAL #(S) N/A   
COC #(S) N/A  
TEMPERATURE BLANK: OBSERVED: N/A CORRECTED \_\_\_\_\_   
SAMPLE TEMPERATURE:  
OBSERVED: 14 AVERAGE: \_\_\_\_\_ CORRECTED \_\_\_\_\_   
SAMPLES / TESTS (IF NCM REQUIRED): \_\_\_\_\_

TEMPERATURE RECORD (IN °C) IR 4  5  OTHER   
COOLER ID 2   
CUSTODY SEAL STATUS  INTACT  BROKEN  N/A   
CUSTODY SEAL #(S) \_\_\_\_\_   
COC #(S) MS  
TEMPERATURE BLANK: OBSERVED: \_\_\_\_\_ CORRECTED \_\_\_\_\_   
SAMPLE TEMPERATURE:  
OBSERVED: 14 AVERAGE: \_\_\_\_\_ CORRECTED \_\_\_\_\_   
SAMPLES / TESTS (IF NCM REQUIRED): \_\_\_\_\_

TEMPERATURE RECORD (IN °C) IR 4  5  OTHER   
COOLER ID \_\_\_\_\_   
CUSTODY SEAL STATUS  INTACT  BROKEN  N/A   
CUSTODY SEAL #(S) \_\_\_\_\_   
COC #(S) \_\_\_\_\_   
TEMPERATURE BLANK: OBSERVED: \_\_\_\_\_ CORRECTED \_\_\_\_\_   
SAMPLE TEMPERATURE:  
OBSERVED: \_\_\_\_\_ AVERAGE: \_\_\_\_\_ CORRECTED \_\_\_\_\_   
SAMPLES / TESTS (IF NCM REQUIRED): \_\_\_\_\_

Initials \_\_\_\_\_ Date \_\_\_\_\_

Lot ID: \_\_\_\_\_

G0H210471

	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, TO-13, Semivolatile Organics

**Northgate Environmental Management, Inc.**

**Sample ID: UW-08182010**

**Trace Level Organic Compounds**

**EPA-2 TO-9**

<b>Lot - Sample #....:</b> G0H210471 - 001	<b>Work Order #....:</b> L507E1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 08/18/10	<b>Date Received....:</b> 08/20/10	<b>Instrument ID....:</b> 1D5
<b>Prep Date....:</b> 08/23/10	<b>Analysis Date....:</b> 08/26/10	<b>Volume....:</b> 430.93
<b>Prep Batch # ....:</b> 0235312	<b>Dilution Factor....:</b> 2	<b>Units....:</b> pg
<b>Initial Wgt/Vol :</b> 1 Sample	<b>Analyst ID....:</b> Alora Kuczynski	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	ND	20	1.0	0
Total TCDD	ND	20		0
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	ND	100	0.1	0
Total HxCDD	ND	100		0
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>5.8 J</b>	<b>100</b>	<b>0.01</b>	<b>0.00013</b>
<b>Total HpCDD</b>	<b>11</b>	<b>100</b>		
<b>OCDD</b>	<b>33 J B</b>	<b>200</b>	<b>0.0003</b>	<b>0.000023</b>
<b>2,3,7,8-TCDF</b>	<b>5.4 J</b>	<b>20</b>	<b>0.1</b>	<b>0.0013</b>
<b>Total TCDF</b>	<b>5.4</b>	<b>20</b>		
1,2,3,7,8-PeCDF	ND	100	0.03	0
2,3,4,7,8-PeCDF	ND	100	0.3	0
Total PeCDF	ND	100		0
1,2,3,4,7,8-HxCDF	ND	100	0.1	0
1,2,3,6,7,8-HxCDF	ND	100	0.1	0
2,3,4,6,7,8-HxCDF	ND	100	0.1	0
1,2,3,7,8,9-HxCDF	ND	100	0.1	0
Total HxCDF	ND	100		0
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>23 J</b>	<b>100</b>	<b>0.01</b>	<b>0.00053</b>
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>5.8 J</b>	<b>100</b>	<b>0.01</b>	<b>0.00013</b>
<b>Total HpCDF</b>	<b>28</b>	<b>100</b>		
<b>OCDF</b>	<b>22 J Q</b>	<b>200</b>	<b>0.0003</b>	<b>0.000015</b>
<b>Total TEQ Concentration</b>				<b>0.0021</b>

**Northgate Environmental Management, Inc.**

**Sample ID: UW-08182010**

**Trace Level Organic Compounds**

**EPA-2 TO-9**

**Lot - Sample #....:** G0H210471 - 001  
**Date Sampled....:** 08/18/10  
**Prep Date....:** 08/23/10  
**Prep Batch # ....:** 0235312  
**Initial Wgt/Vol :** 1 Sample

**Work Order #....:** L507E1AA  
**Date Received....:** 08/20/10  
**Analysis Date....:** 08/26/10  
**Dilution Factor....:** 2  
**Analyst ID....:** Alora Kuczynski

**Matrix....:** AA  
**Instrument ID....:** 1D5  
**Volume....:** 430.93  
**Units....:** pg

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	89	50 - 120
13C-1,2,3,7,8-PeCDD	76	50 - 120
13C-1,2,3,6,7,8-HxCDD	92	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	77	40 - 120
13C-OCDD	69	40 - 120
13C-2,3,7,8-TCDF	83	50 - 120
13C-1,2,3,7,8-PeCDF	80	50 - 120
13C-1,2,3,4,7,8-HxCDF	104	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	80	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37C14-2,3,7,8-TCDD	191 *	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.

- \* Surrogate recovery is outside stated control limits.
- 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-08182010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0H210471 - 001	<b>Work Order #....:</b> L507E1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 08/18/10	<b>Date Received....:</b> 08/20/10	<b>Dilution Factor....:</b> 2
<b>Prep Date....:</b> 08/23/10	<b>Analysis Date....:</b> 08/26/10	<b>Volume....:</b> 430.93
<b>Prep Batch # ....:</b> 0235312	<b>Instrument ID....:</b> 1D5	<b>Method....:</b> EPA-2 TO-9
<b>Initial Wgt/Vol....:</b> 1 Sample	<b>Analyst ID....:</b> Alora Kuczynski	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.046	0.0063	pg/m3
Total TCDD	ND	0.046	0.0063	pg/m3
1,2,3,7,8-PeCDD	ND	0.23	0.011	pg/m3
Total PeCDD	ND	0.23	0.011	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.23	0.0091	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.23	0.0086	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.23	0.0077	pg/m3
Total HxCDD	ND	0.23	0.0093	pg/m3
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>0.013 J</b>	<b>0.23</b>	<b>0.0084</b>	<b>pg/m3</b>
<b>Total HpCDD</b>	<b>0.025</b>	<b>0.23</b>	<b>0.0084</b>	<b>pg/m3</b>
<b>OCDD</b>	<b>0.076 J B</b>	<b>0.46</b>	<b>0.012</b>	<b>pg/m3</b>
<b>2,3,7,8-TCDF</b>	<b>0.013 J</b>	<b>0.046</b>	<b>0.0049</b>	<b>pg/m3</b>
<b>Total TCDF</b>	<b>0.013</b>	<b>0.046</b>	<b>0.0049</b>	<b>pg/m3</b>
1,2,3,7,8-PeCDF	ND	0.23	0.0081	pg/m3
2,3,4,7,8-PeCDF	ND	0.23	0.0091	pg/m3
Total PeCDF	ND	0.23	0.0091	pg/m3
1,2,3,4,7,8-HxCDF	ND	0.23	0.012	pg/m3
1,2,3,6,7,8-HxCDF	ND	0.23	0.0079	pg/m3
2,3,4,6,7,8-HxCDF	ND	0.23	0.0081	pg/m3
1,2,3,7,8,9-HxCDF	ND	0.23	0.0084	pg/m3
Total HxCDF	ND	0.23	0.012	pg/m3
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>0.053 J</b>	<b>0.23</b>	<b>0.0058</b>	<b>pg/m3</b>
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>0.013 J</b>	<b>0.23</b>	<b>0.0067</b>	<b>pg/m3</b>
<b>Total HpCDF</b>	<b>0.066</b>	<b>0.23</b>	<b>0.0063</b>	<b>pg/m3</b>
<b>OCDF</b>	<b>0.050 J Q</b>	<b>0.46</b>	<b>0.013</b>	<b>pg/m3</b>

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	89	50 - 120
13C-1,2,3,7,8-PeCDD	76	50 - 120
13C-1,2,3,6,7,8-HxCDD	92	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	77	40 - 120
13C-OCDD	69	40 - 120
13C-2,3,7,8-TCDF	83	50 - 120
13C-1,2,3,7,8-PeCDF	80	50 - 120
13C-1,2,3,4,7,8-HxCDF	104	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	80	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	191 *	50 - 120

**Northgate Environmental Management, Inc.**

**Sample ID: UW-08182010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0H210471 - 001	<b>Work Order #....:</b>	L507E1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	08/18/10	<b>Date Received....:</b>	08/20/10	<b>Dilution Factor....:</b>	2
<b>Prep Date....:</b>	08/23/10	<b>Analysis Date....:</b>	08/26/10	<b>Volume....:</b>	430.93
<b>Prep Batch # ....:</b>	0235312	<b>Instrument ID....:</b>	1D5	<b>Method....:</b>	EPA-2 TO-9
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Alora Kuczynski		

**QUALIFIERS**

- \* Surrogate recovery is outside stated control limits.
- 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: DW-08182010**

**Trace Level Organic Compounds**

**EPA-2 TO-9**

**Lot - Sample #....:** G0H210471 - 002  
**Date Sampled....:** 08/18/10  
**Prep Date....:** 08/23/10  
**Prep Batch # ....:** 0235312  
**Initial Wgt/Vol :** 1 Sample

**Work Order #....:** L507F1AA  
**Date Received....:** 08/20/10  
**Analysis Date....:** 08/26/10  
**Dilution Factor....:** 2  
**Analyst ID....:** Alora Kuczynski

**Matrix....:** AA  
**Instrument ID....:** 1D5  
**Volume....:** 422.31  
**Units....:** pg

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	ND	20	1.0	0
Total TCDD	ND	20		0
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	ND	100	0.1	0
Total HxCDD	ND	100		0
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>8.2 J</b>	<b>100</b>	<b>0.01</b>	<b>0.00019</b>
<b>Total HpCDD</b>	<b>8.2</b>	<b>100</b>		
<b>OCDD</b>	<b>16 J Q B</b>	<b>200</b>	<b>0.0003</b>	<b>0.000011</b>
<b>2,3,7,8-TCDF</b>	<b>12 CON J</b>	<b>20</b>	<b>0.1</b>	<b>0.0028</b>
<b>Total TCDF</b>	<b>140</b>	<b>20</b>		
<b>1,2,3,7,8-PeCDF</b>	<b>15 J</b>	<b>100</b>	<b>0.03</b>	<b>0.0011</b>
2,3,4,7,8-PeCDF	ND	100	0.3	0
<b>Total PeCDF</b>	<b>61</b>	<b>100</b>		
<b>1,2,3,4,7,8-HxCDF</b>	<b>31 J</b>	<b>100</b>	<b>0.1</b>	<b>0.0073</b>
<b>1,2,3,6,7,8-HxCDF</b>	<b>20 J</b>	<b>100</b>	<b>0.1</b>	<b>0.0047</b>
2,3,4,6,7,8-HxCDF	ND	100	0.1	0
1,2,3,7,8,9-HxCDF	ND	100	0.1	0
<b>Total HxCDF</b>	<b>95</b>	<b>100</b>		
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>57 Q J</b>	<b>100</b>	<b>0.01</b>	<b>0.0013</b>
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>23 J</b>	<b>100</b>	<b>0.01</b>	<b>0.00054</b>
<b>Total HpCDF</b>	<b>110</b>	<b>100</b>		
<b>OCDF</b>	<b>150 J</b>	<b>200</b>	<b>0.0003</b>	<b>0.00011</b>
<b>Total TEQ Concentration</b>				<b>0.018</b>



Northgate Environmental Management, Inc.

Sample ID: DW-08182010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0H210471 - 002  
Date Sampled....: 08/18/10  
Prep Date....: 08/23/10  
Prep Batch # ....: 0235312  
Initial Wgt/Vol : 1 Sample

Work Order #....: L507F1AA  
Date Received....: 08/20/10  
Analysis Date....: 08/26/10  
Dilution Factor....: 2  
Analyst ID....: Alora Kuczynski

Matrix....: AA  
Instrument ID....: 1D5  
Volume....: 422.31  
Units....: pg

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	85	50 - 120
13C-1,2,3,7,8-PeCDD	72	50 - 120
13C-1,2,3,6,7,8-HxCDD	92	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	72	40 - 120
13C-OCDD	65	40 - 120
13C-2,3,7,8-TCDF	78	50 - 120
13C-1,2,3,7,8-PeCDF	79	50 - 120
13C-1,2,3,4,7,8-HxCDF	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	73	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	194 *	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.

- \* Surrogate recovery is outside stated control limits.
- 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-08182010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0H210471 - 002	<b>Work Order #....:</b> L507F1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 08/18/10	<b>Date Received....:</b> 08/20/10	<b>Dilution Factor....:</b> 2
<b>Prep Date....:</b> 08/23/10	<b>Analysis Date....:</b> 08/26/10	<b>Volume....:</b> 422.31
<b>Prep Batch # ....:</b> 0235312	<b>Instrument ID....:</b> 1D5	<b>Method....:</b> EPA-2 TO-9
<b>Initial Wgt/Vol....:</b> 1 Sample	<b>Analyst ID....:</b> Alora Kuczynski	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.047	0.0064	pg/m3
Total TCDD	ND	0.047	0.012	pg/m3
1,2,3,7,8-PeCDD	ND	0.24	0.014	pg/m3
Total PeCDD	ND	0.24	0.014	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.24	0.013	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.24	0.013	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.24	0.011	pg/m3
Total HxCDD	ND	0.24	0.013	pg/m3
1,2,3,4,6,7,8-HpCDD	0.019 J	0.24	0.010	pg/m3
Total HpCDD	0.019	0.24	0.010	pg/m3
OCDD	0.039 J Q B	0.47	0.013	pg/m3
2,3,7,8-TCDF	0.028 CON J	0.047	0.013	pg/m3
Total TCDF	0.32	0.047	0.0069	pg/m3
1,2,3,7,8-PeCDF	0.037 J	0.24	0.010	pg/m3
2,3,4,7,8-PeCDF	ND	0.24	0.014	pg/m3
Total PeCDF	0.15	0.24	0.011	pg/m3
1,2,3,4,7,8-HxCDF	0.073 J	0.24	0.010	pg/m3
1,2,3,6,7,8-HxCDF	0.046 J	0.24	0.0095	pg/m3
2,3,4,6,7,8-HxCDF	ND	0.24	0.0097	pg/m3
1,2,3,7,8,9-HxCDF	ND	0.24	0.0099	pg/m3
Total HxCDF	0.22	0.24	0.0099	pg/m3
1,2,3,4,6,7,8-HpCDF	0.13 Q J	0.24	0.0090	pg/m3
1,2,3,4,7,8,9-HpCDF	0.055 J	0.24	0.010	pg/m3
Total HpCDF	0.27	0.24	0.0095	pg/m3
OCDF	0.36 J	0.47	0.015	pg/m3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	85	50 - 120
13C-1,2,3,7,8-PeCDD	72	50 - 120
13C-1,2,3,6,7,8-HxCDD	92	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	72	40 - 120
13C-OCDD	65	40 - 120
13C-2,3,7,8-TCDF	78	50 - 120
13C-1,2,3,7,8-PeCDF	79	50 - 120
13C-1,2,3,4,7,8-HxCDF	102	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	73	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	194 *	50 - 120

**Northgate Environmental Management, Inc.**

**Sample ID: DW-08182010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0H210471 - 002	<b>Work Order #....:</b>	L507F1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	08/18/10	<b>Date Received....:</b>	08/20/10	<b>Dilution Factor....:</b>	2
<b>Prep Date....:</b>	08/23/10	<b>Analysis Date....:</b>	08/26/10	<b>Volume....:</b>	422.31
<b>Prep Batch # ....:</b>	0235312	<b>Instrument ID....:</b>	1D5	<b>Method....:</b>	EPA-2 TO-9
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Alora Kuczynski		

**QUALIFIERS**

- \* Surrogate recovery is outside stated control limits.
- 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-08192010**

**Trace Level Organic Compounds**

**EPA-2 TO-9**

**Lot - Sample #....:** G0H210471 - 003  
**Date Sampled....:** 08/19/10  
**Prep Date....:** 08/23/10  
**Prep Batch # ....:** 0235312  
**Initial Wgt/Vol :** 1 Sample

**Work Order #....:** L507G1AA  
**Date Received....:** 08/20/10  
**Analysis Date....:** 08/26/10  
**Dilution Factor....:** 2  
**Analyst ID....:** Alora Kuczynski

**Matrix....:** AA  
**Instrument ID....:** 1D5  
**Volume....:** 423.33  
**Units....:** pg

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	ND	20	1.0	0
Total TCDD	ND	20		0
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	ND	100	0.1	0
Total HxCDD	ND	100		0
1,2,3,4,6,7,8-HpCDD	ND	100	0.01	0
<b>Total HpCDD</b>	<b>9.2</b>	<b>100</b>		
<b>OCDD</b>	<b>19</b>	<b>200</b>	<b>0.0003</b>	<b>0.000013</b>
	<b>J Q B</b>			
<b>2,3,7,8-TCDF</b>	<b>15</b>	<b>20</b>	<b>0.1</b>	<b>0.0035</b>
	<b>J</b>			
<b>Total TCDF</b>	<b>74</b>	<b>20</b>		
1,2,3,7,8-PeCDF	ND	100	0.03	0
2,3,4,7,8-PeCDF	ND	100	0.3	0
<b>Total PeCDF</b>	<b>20</b>	<b>100</b>		
<b>1,2,3,4,7,8-HxCDF</b>	<b>17</b>	<b>100</b>	<b>0.1</b>	<b>0.0040</b>
	<b>J</b>			
<b>1,2,3,6,7,8-HxCDF</b>	<b>13</b>	<b>100</b>	<b>0.1</b>	<b>0.0031</b>
	<b>J</b>			
2,3,4,6,7,8-HxCDF	ND	100	0.1	0
1,2,3,7,8,9-HxCDF	ND	100	0.1	0
<b>Total HxCDF</b>	<b>58</b>	<b>100</b>		
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>31</b>	<b>100</b>	<b>0.01</b>	<b>0.00073</b>
	<b>J Q</b>			
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>8.5</b>	<b>100</b>	<b>0.01</b>	<b>0.00020</b>
	<b>J Q</b>			
<b>Total HpCDF</b>	<b>59</b>	<b>100</b>		
<b>OCDF</b>	<b>93</b>	<b>200</b>	<b>0.0003</b>	<b>0.000066</b>
	<b>J</b>			
<b>Total TEQ Concentration</b>				<b>0.012</b>

Northgate Environmental Management, Inc.

Sample ID: DW-08192010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0H210471 - 003  
Date Sampled....: 08/19/10  
Prep Date....: 08/23/10  
Prep Batch # ....: 0235312  
Initial Wgt/Vol : 1 Sample

Work Order #....: L507G1AA  
Date Received....: 08/20/10  
Analysis Date....: 08/26/10  
Dilution Factor....: 2  
Analyst ID....: Alora Kuczynski

Matrix....: AA  
Instrument ID....: 1D5  
Volume....: 423.33  
Units.....: pg

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	87	50 - 120
13C-1,2,3,7,8-PeCDD	67	50 - 120
13C-1,2,3,6,7,8-HxCDD	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	79	40 - 120
13C-OCDD	66	40 - 120
13C-2,3,7,8-TCDF	80	50 - 120
13C-1,2,3,7,8-PeCDF	77	50 - 120
13C-1,2,3,4,7,8-HxCDF	107	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	78	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	190 *	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.

- \* Surrogate recovery is outside stated control limits.
- 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: DW-08192010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0H210471 - 003	<b>Work Order #....:</b> L507G1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 08/19/10	<b>Date Received....:</b> 08/20/10	<b>Dilution Factor....:</b> 2
<b>Prep Date....:</b> 08/23/10	<b>Analysis Date....:</b> 08/26/10	<b>Volume....:</b> 423.33
<b>Prep Batch # ....:</b> 0235312	<b>Instrument ID....:</b> 1D5	<b>Method....:</b> EPA-2 TO-9
<b>Initial Wgt/Vol....:</b> 1 Sample	<b>Analyst ID....:</b> Alora Kuczynski	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.047	0.0073	pg/m3
Total TCDD	ND	0.047	0.0073	pg/m3
1,2,3,7,8-PeCDD	ND	0.24	0.019	pg/m3
Total PeCDD	ND	0.24	0.019	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.24	0.013	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.24	0.012	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.24	0.011	pg/m3
Total HxCDD	ND	0.24	0.013	pg/m3
1,2,3,4,6,7,8-HpCDD	ND	0.24	0.0092	pg/m3
<b>Total HpCDD</b>	<b>0.022</b>	<b>0.24</b>	<b>0.0092</b>	<b>pg/m3</b>
<b>OCDD</b>	<b>0.045</b>	<b>J Q B</b>	<b>0.47</b>	<b>pg/m3</b>
<b>2,3,7,8-TCDF</b>	<b>0.036</b>	<b>J</b>	<b>0.047</b>	<b>pg/m3</b>
<b>Total TCDF</b>	<b>0.17</b>		<b>0.047</b>	<b>pg/m3</b>
1,2,3,7,8-PeCDF	ND	0.24	0.022	pg/m3
2,3,4,7,8-PeCDF	ND	0.24	0.016	pg/m3
<b>Total PeCDF</b>	<b>0.046</b>		<b>0.015</b>	<b>pg/m3</b>
<b>1,2,3,4,7,8-HxCDF</b>	<b>0.040</b>	<b>J</b>	<b>0.24</b>	<b>pg/m3</b>
<b>1,2,3,6,7,8-HxCDF</b>	<b>0.031</b>	<b>J</b>	<b>0.24</b>	<b>pg/m3</b>
2,3,4,6,7,8-HxCDF	ND	0.24	0.012	pg/m3
1,2,3,7,8,9-HxCDF	ND	0.24	0.012	pg/m3
<b>Total HxCDF</b>	<b>0.14</b>		<b>0.012</b>	<b>pg/m3</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>0.074</b>	<b>J Q</b>	<b>0.24</b>	<b>pg/m3</b>
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>0.020</b>	<b>J Q</b>	<b>0.24</b>	<b>pg/m3</b>
<b>Total HpCDF</b>	<b>0.14</b>		<b>0.0080</b>	<b>pg/m3</b>
<b>OCDF</b>	<b>0.22</b>	<b>J</b>	<b>0.47</b>	<b>pg/m3</b>

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	87	50 - 120
13C-1,2,3,7,8-PeCDD	67	50 - 120
13C-1,2,3,6,7,8-HxCDD	99	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	79	40 - 120
13C-OCDD	66	40 - 120
13C-2,3,7,8-TCDF	80	50 - 120
13C-1,2,3,7,8-PeCDF	77	50 - 120
13C-1,2,3,4,7,8-HxCDF	107	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	78	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	190 *	50 - 120

**Northgate Environmental Management, Inc.**

**Sample ID: DW-08192010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0H210471 - 003	<b>Work Order #....:</b>	L507G1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	08/19/10	<b>Date Received....:</b>	08/20/10	<b>Dilution Factor....:</b>	2
<b>Prep Date....:</b>	08/23/10	<b>Analysis Date....:</b>	08/26/10	<b>Volume....:</b>	423.33
<b>Prep Batch # ....:</b>	0235312	<b>Instrument ID....:</b>	1D5	<b>Method....:</b>	EPA-2 TO-9
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Alora Kuczynski		

**QUALIFIERS**

- \* Surrogate recovery is outside stated control limits.
- 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-08192010

Trace Level Organic Compounds

EPA-2 TO-9

Lot - Sample #....: G0H210471 - 004  
 Date Sampled....: 08/19/10  
 Prep Date.....: 08/23/10  
 Prep Batch # ....: 0235312  
 Initial Wgt/Vol : 1 Sample

Work Order #....: L507H1AA  
 Date Received....: 08/20/10  
 Analysis Date....: 08/26/10  
 Dilution Factor....: 2  
 Analyst ID.....: Alora Kuczynski

Matrix.....: AA  
 Instrument ID....: 1D5  
 Volume.....: 424.95  
 Units.....: pg

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND	20	1.0	0
Total TCDD	ND	20		0
1,2,3,7,8-PeCDD	ND	100	1.0	0
Total PeCDD	ND	100		0
1,2,3,4,7,8-HxCDD	ND	100	0.1	0
1,2,3,6,7,8-HxCDD	ND	100	0.1	0
1,2,3,7,8,9-HxCDD	ND	100	0.1	0
Total HxCDD	ND	100		0
1,2,3,4,6,7,8-HpCDD	9.1 J	100	0.01	0.00021
Total HpCDD	17	100		
OCDD	23 J Q B	200	0.0003	0.000016
2,3,7,8-TCDF	ND	20	0.1	0
Total TCDF	ND	20		0
1,2,3,7,8-PeCDF	ND	100	0.03	0
2,3,4,7,8-PeCDF	ND	100	0.3	0
Total PeCDF	ND	100		0
1,2,3,4,7,8-HxCDF	ND	100	0.1	0
1,2,3,6,7,8-HxCDF	ND	100	0.1	0
2,3,4,6,7,8-HxCDF	ND	100	0.1	0
1,2,3,7,8,9-HxCDF	ND	100	0.1	0
Total HxCDF	9.6	100		
1,2,3,4,6,7,8-HpCDF	19 J Q	100	0.01	0.00045
1,2,3,4,7,8,9-HpCDF	4.6 J Q	100	0.01	0.00011
Total HpCDF	29	100		
OCDF	34 J Q	200	0.0003	0.000024
<b>Total TEQ Concentration</b>				<b>0.00081</b>



**Northgate Environmental Management, Inc.**

**Sample ID: UW-08192010**

**Trace Level Organic Compounds**

**EPA-2 TO-9**

**Lot - Sample #....:** G0H210471 - 004  
**Date Sampled....:** 08/19/10  
**Prep Date....:** 08/23/10  
**Prep Batch # ....:** 0235312  
**Initial Wgt/Vol :** 1 Sample

**Work Order #....:** L507H1AA  
**Date Received....:** 08/20/10  
**Analysis Date....:** 08/26/10  
**Dilution Factor....:** 2  
**Analyst ID....:** Alora Kuczynski

**Matrix....:** AA  
**Instrument ID....:** 1D5  
**Volume....:** 424.95  
**Units....:** pg

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	77	50 - 120
13C-1,2,3,7,8-PeCDD	77	50 - 120
13C-1,2,3,6,7,8-HxCDD	100	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	75	40 - 120
13C-OCDD	67	40 - 120
13C-2,3,7,8-TCDF	73	50 - 120
13C-1,2,3,7,8-PeCDF	85	50 - 120
13C-1,2,3,4,7,8-HxCDF	108	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	79	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	187 *	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.

- \* Surrogate recovery is outside stated control limits.
- 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-08192010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0H210471 - 004	<b>Work Order #....:</b> L507H1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 08/19/10	<b>Date Received....:</b> 08/20/10	<b>Dilution Factor....:</b> 2
<b>Prep Date....:</b> 08/23/10	<b>Analysis Date....:</b> 08/26/10	<b>Volume....:</b> 424.95
<b>Prep Batch # ....:</b> 0235312	<b>Instrument ID....:</b> 1D5	<b>Method....:</b> EPA-2 TO-9
<b>Initial Wgt/Vol....:</b> 1 Sample	<b>Analyst ID....:</b> Alora Kuczynski	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	0.047	0.010	pg/m3
Total TCDD	ND	0.047	0.010	pg/m3
1,2,3,7,8-PeCDD	ND	0.24	0.017	pg/m3
Total PeCDD	ND	0.24	0.017	pg/m3
1,2,3,4,7,8-HxCDD	ND	0.24	0.012	pg/m3
1,2,3,6,7,8-HxCDD	ND	0.24	0.011	pg/m3
1,2,3,7,8,9-HxCDD	ND	0.24	0.0096	pg/m3
Total HxCDD	ND	0.24	0.012	pg/m3
<b>1,2,3,4,6,7,8-HpCDD</b>	<b>0.021</b> <b>J</b>	<b>0.24</b>	<b>0.011</b>	<b>pg/m3</b>
<b>Total HpCDD</b>	<b>0.040</b>	<b>0.24</b>	<b>0.011</b>	<b>pg/m3</b>
<b>OCDD</b>	<b>0.054</b> <b>J Q B</b>	<b>0.47</b>	<b>0.014</b>	<b>pg/m3</b>
2,3,7,8-TCDF	ND	0.047	0.012	pg/m3
Total TCDF	ND	0.047	0.012	pg/m3
1,2,3,7,8-PeCDF	ND	0.24	0.0089	pg/m3
2,3,4,7,8-PeCDF	ND	0.24	0.0096	pg/m3
Total PeCDF	ND	0.24	0.019	pg/m3
1,2,3,4,7,8-HxCDF	ND	0.24	0.012	pg/m3
1,2,3,6,7,8-HxCDF	ND	0.24	0.012	pg/m3
2,3,4,6,7,8-HxCDF	ND	0.24	0.0096	pg/m3
1,2,3,7,8,9-HxCDF	ND	0.24	0.010	pg/m3
<b>Total HxCDF</b>	<b>0.022</b>	<b>0.24</b>	<b>0.0099</b>	<b>pg/m3</b>
<b>1,2,3,4,6,7,8-HpCDF</b>	<b>0.044</b> <b>J Q</b>	<b>0.24</b>	<b>0.0094</b>	<b>pg/m3</b>
<b>1,2,3,4,7,8,9-HpCDF</b>	<b>0.011</b> <b>J Q</b>	<b>0.24</b>	<b>0.011</b>	<b>pg/m3</b>
<b>Total HpCDF</b>	<b>0.069</b>	<b>0.24</b>	<b>0.010</b>	<b>pg/m3</b>
<b>OCDF</b>	<b>0.080</b> <b>J Q</b>	<b>0.47</b>	<b>0.022</b>	<b>pg/m3</b>

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	77	50 - 120
13C-1,2,3,7,8-PeCDD	77	50 - 120
13C-1,2,3,6,7,8-HxCDD	100	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	75	40 - 120
13C-OCDD	67	40 - 120
13C-2,3,7,8-TCDF	73	50 - 120
13C-1,2,3,7,8-PeCDF	85	50 - 120
13C-1,2,3,4,7,8-HxCDF	108	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	79	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	187     *	50 - 120

**Northgate Environmental Management, Inc.**

**Sample ID: UW-08192010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b>	G0H210471 - 004	<b>Work Order #....:</b>	L507H1AA	<b>Matrix....:</b>	AA
<b>Date Sampled....:</b>	08/19/10	<b>Date Received....:</b>	08/20/10	<b>Dilution Factor....:</b>	2
<b>Prep Date....:</b>	08/23/10	<b>Analysis Date....:</b>	08/26/10	<b>Volume....:</b>	424.95
<b>Prep Batch # ....:</b>	0235312	<b>Instrument ID....:</b>	1D5	<b>Method....:</b>	EPA-2 TO-9
<b>Initial Wgt/Vol....:</b>	1 Sample	<b>Analyst ID....:</b>	Alora Kuczynski		

**QUALIFIERS**

- \* Surrogate recovery is outside stated control limits.
- 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

G0H210471

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AA	EPA-2 TO-9		0235312	
002	AA	EPA-2 TO-9		0235312	
003	AA	EPA-2 TO-9		0235312	
004	AA	EPA-2 TO-9		0235312	
005	AA	EPA-2 TO-13		0235315	
006	AA	EPA-2 TO-13		0235315	
007	AA	EPA-2 TO-13		0235315	
008	AA	EPA-2 TO-13		0235315	

**Method Blank Report**

**Trace Level Compounds**

**Lot - Sample #....:** G0H230000 - 312B  
**Date Sampled....:** 08/18/10  
**Prep Date....:** 08/23/10  
**Prep Batch # ....:** 0235312  
**Initial Wgt/Vol....:** 1 Sample

**Work Order #....:** L518H1AA  
**Date Received....:** 08/20/10  
**Analysis Date....:** 08/25/10  
**Instrument ID....:** 1D5  
**Analyst ID....:** Alora Kuczynski

**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	3.2	pg
Total TCDD	ND	20	3.2	pg
1,2,3,7,8-PeCDD	ND	100	7.1	pg
Total PeCDD	ND	100	7.1	pg
1,2,3,4,7,8-HxCDD	ND	100	5.0	pg
1,2,3,6,7,8-HxCDD	ND	100	4.6	pg
1,2,3,7,8,9-HxCDD	ND	100	4.1	pg
Total HxCDD	ND	100	5.0	pg
1,2,3,4,6,7,8-HpCDD	ND	100	4.2	pg
Total HpCDD	ND	100	4.2	pg
<b>OCDD</b>	<b>14</b> <b>J</b>	<b>200</b>	<b>5.0</b>	<b>pg</b>
2,3,7,8-TCDF	ND	20	3.1	pg
Total TCDF	ND	20	3.1	pg
1,2,3,7,8-PeCDF	ND	100	3.8	pg
2,3,4,7,8-PeCDF	ND	100	4.2	pg
Total PeCDF	ND	100	4.2	pg
1,2,3,4,7,8-HxCDF	ND	100	3.9	pg
1,2,3,6,7,8-HxCDF	ND	100	3.6	pg
2,3,4,6,7,8-HxCDF	ND	100	3.7	pg
1,2,3,7,8,9-HxCDF	ND	100	3.8	pg
Total HxCDF	ND	100	3.9	pg
1,2,3,4,6,7,8-HpCDF	ND	100	3.3	pg
1,2,3,4,7,8,9-HpCDF	ND	100	3.8	pg
Total HpCDF	ND	100	3.8	pg
OCDF	ND	200	5.7	pg

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	79	50 - 120
13C-1,2,3,7,8-PeCDD	73	50 - 120
13C-1,2,3,6,7,8-HxCDD	89	50 - 120
13C-1,2,3,4,6,7,8-HpCDD	76	40 - 120
13C-OCDD	69	40 - 120
13C-2,3,7,8-TCDF	71	50 - 120
13C-1,2,3,7,8-PeCDF	75	50 - 120
13C-1,2,3,4,7,8-HxCDF	97	50 - 120
13C-1,2,3,4,6,7,8-HpCDF	74	40 - 120

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
37Cl4-2,3,7,8-TCDD	227      *	50 - 120

**Method Blank Report**

**Trace Level Compounds**

**Lot - Sample #....:** G0H230000 - 312B  
**Date Sampled....:** 08/18/10  
**Prep Date....:** 08/23/10  
**Prep Batch # ....:** 0235312  
**Initial Wgt/Vol....:** 1 Sample

**Work Order #....:** L518H1AA  
**Date Received....:** 08/20/10  
**Analysis Date....:** 08/25/10  
**Instrument ID....:** 1D5  
**Analyst ID....:** Alora Kuczynski

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

**QUALIFIERS**

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

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

Client Lot # ...:	G0H210471	Work Order # ...:	L518H1AC-LCS	Matrix .....	AIR
LCS Lot-Sample# :	G0H230000 - 312		L518H1AD-LCSD		
Prep Date .....	08/23/10	Analysis Date ..:	08/26/10		
Prep Batch # ...:	0235312				
Dilution Factor :	2				
Analyst ID.....:	Alora Kuczynski	Instrument ID..:	1D5	Method.....:	EPA-2 TO-9
Initial Wgt/Vol:	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	337	pg	84	(70 - 130)		
	400	358	pg	90	(70 - 130)	6.0	(0 - 30)
1,2,3,7,8-PeCDD	2000	2120	pg	106	(70 - 130)		
	2000	2220	pg	111	(70 - 130)	4.5	(0 - 30)
1,2,3,4,7,8-HxCDD	2000	2030	pg	102	(70 - 130)		
	2000	2070	pg	104	(70 - 130)	1.9	(0 - 30)
1,2,3,6,7,8-HxCDD	2000	2000	pg	100	(70 - 130)		
	2000	2130	pg	107	(70 - 130)	6.3	(0 - 30)
1,2,3,7,8,9-HxCDD	2000	2010	pg	101	(70 - 130)		
	2000	1980	pg	99	(70 - 130)	1.8	(0 - 30)
1,2,3,4,6,7,8-HpCDD	2000	2050	pg	102	(70 - 130)		
	2000	2070	pg	103	(70 - 130)	1.1	(0 - 30)
OCDD	4000	4340	pg	109	(70 - 130)		
	4000	4440	pg	111	(70 - 130)	2.2	(0 - 30)
2,3,7,8-TCDF	400	396	pg	99	(70 - 130)		
	400	438	pg	109	(70 - 130)	10	(0 - 30)
1,2,3,7,8-PeCDF	2000	1940	pg	97	(70 - 130)		
	2000	2070	pg	104	(70 - 130)	6.5	(0 - 30)
2,3,4,7,8-PeCDF	2000	2070	pg	103	(70 - 130)		
	2000	2070	pg	104	(70 - 130)	0.29	(0 - 30)
1,2,3,4,7,8-HxCDF	2000	2030	pg	101	(70 - 130)		
	2000	2180	pg	109	(70 - 130)	7.1	(0 - 30)
1,2,3,6,7,8-HxCDF	2000	2180	pg	109	(70 - 130)		
	2000	2260	pg	113	(70 - 130)	3.6	(0 - 30)
2,3,4,6,7,8-HxCDF	2000	1740	pg	87	(70 - 130)		
	2000	1790	pg	90	(70 - 130)	2.9	(0 - 30)
1,2,3,7,8,9-HxCDF	2000	1670	pg	84	(70 - 130)		
	2000	1690	pg	84	(70 - 130)	0.72	(0 - 30)
1,2,3,4,6,7,8-HpCDF	2000	2140	pg	107	(70 - 130)		
	2000	2210	pg	110	(70 - 130)	3.3	(0 - 30)
1,2,3,4,7,8,9-HpCDF	2000	1920	pg	96	(70 - 130)		
	2000	2010	pg	101	(70 - 130)	4.5	(0 - 30)
OCDF	4000	4180	pg	105	(70 - 130)		
	4000	4430	pg	111	(70 - 130)	5.7	(0 - 30)
<u>INTERNAL STANDARD</u>				<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
13C-2,3,7,8-TCDD				80	(50 - 120)		
				88	(50 - 120)		
13C-1,2,3,7,8-PeCDD				71	(50 - 120)		
				78	(50 - 120)		
13C-1,2,3,6,7,8-HxCDD				91	(50 - 120)		

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

**Client Lot # ...:** G0H210471  
**LCS Lot-Sample# :** G0H230000 - 312

**Work Order # ...:** L518H1AC-LCS  
 L518H1AD-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	78	(40 - 120)
	83	(40 - 120)
13C-OCDD	66	(40 - 120)
	70	(40 - 120)
13C-2,3,7,8-TCDF	71	(50 - 120)
	79	(50 - 120)
13C-1,2,3,7,8-PeCDF	75	(50 - 120)
	85	(50 - 120)
13C-1,2,3,4,7,8-HxCDF	97	(50 - 120)
	105	(50 - 120)
13C-1,2,3,4,6,7,8-HpCDF	78	(40 - 120)
	84	(40 - 120)

**Notes:**

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

Bold print denotes control parameters



# AIR, TO-9, Dioxins/Furans

**Northgate Environmental Management, Inc.**

**Sample ID: UW-08182010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0H210471 - 005	<b>Work Order #....:</b> L507J1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 08/18/10	<b>Date Received....:</b> 08/20/10	<b>Dilution Factor....:</b> 1
<b>Prep Date....:</b> 08/23/10	<b>Analysis Date....:</b> 08/25/10	<b>Volume....:</b> 453.04
<b>Prep Batch # ....:</b> 0235315	<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	0.022	0.0029	ug/m3
<b><u>SURROGATE</u></b>		<b><u>PERCENT RECOVERY</u></b>		<b><u>RECOVERY LIMITS</u></b>
1,2-Dichlorobenzene-d4		47 *		60 - 120
2-Fluorobiphenyl		77		58 - 105
2-Fluorophenol		63		41 - 105
Nitrobenzene-d5		67		46 - 118
Phenol-d5		76		43 - 122
Terphenyl-d14		96		69 - 110
2,4,6-Tribromophenol		97		61 - 118

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits.

**Northgate Environmental Management, Inc.**

**Sample ID: DW-08182010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0H210471 - 006	<b>Work Order #....:</b> L507K1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 08/18/10	<b>Date Received....:</b> 08/20/10	<b>Dilution Factor....:</b> 1
<b>Prep Date....:</b> 08/23/10	<b>Analysis Date....:</b> 08/25/10	<b>Volume....:</b> 422.25
<b>Prep Batch # ....:</b> 0235315	<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	0.024	0.0031	ug/m3
<u>SURROGATE</u>		<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>
1,2-Dichlorobenzene-d4		45 *		60 - 120
2-Fluorobiphenyl		76		58 - 105
2-Fluorophenol		63		41 - 105
Nitrobenzene-d5		63		46 - 118
Phenol-d5		78		43 - 122
Terphenyl-d14		93		69 - 110
2,4,6-Tribromophenol		99		61 - 118

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits.

**Northgate Environmental Management, Inc.**

**Sample ID: DW-08192010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0H210471 - 007	<b>Work Order #....:</b> L507L1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 08/19/10	<b>Date Received....:</b> 08/20/10	<b>Dilution Factor....:</b> 1
<b>Prep Date....:</b> 08/23/10	<b>Analysis Date....:</b> 08/25/10	<b>Volume....:</b> 420.71
<b>Prep Batch # ....:</b> 0235315	<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	0.024	0.0031	ug/m3
<b><u>SURROGATE</u></b>		<b><u>PERCENT RECOVERY</u></b>	<b><u>RECOVERY LIMITS</u></b>	
1,2-Dichlorobenzene-d4		51		60 - 120
2-Fluorobiphenyl		71		58 - 105
2-Fluorophenol		61		41 - 105
Nitrobenzene-d5		65		46 - 118
Phenol-d5		77		43 - 122
Terphenyl-d14		87		69 - 110
2,4,6-Tribromophenol		96		61 - 118

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits.

**Northgate Environmental Management, Inc.**

**Sample ID: UW-08192010**

**Trace Level Compounds**

<b>Lot - Sample #....:</b> G0H210471 - 008	<b>Work Order #....:</b> L507M1AA	<b>Matrix....:</b> AA
<b>Date Sampled....:</b> 08/19/10	<b>Date Received....:</b> 08/20/10	<b>Dilution Factor....:</b> 1
<b>Prep Date....:</b> 08/23/10	<b>Analysis Date....:</b> 08/25/10	<b>Volume....:</b> 439.9
<b>Prep Batch # ....:</b> 0235315	<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	0.023	0.0030	ug/m3
<b><u>SURROGATE</u></b>		<b><u>PERCENT RECOVERY</u></b>		<b><u>RECOVERY LIMITS</u></b>
1,2-Dichlorobenzene-d4		50		60 - 120
2-Fluorobiphenyl		84		58 - 105
2-Fluorophenol		62		41 - 105
Nitrobenzene-d5		64		46 - 118
Phenol-d5		86		43 - 122
Terphenyl-d14		105		69 - 110
2,4,6-Tribromophenol		110		61 - 118

**QUALIFIERS**

\* Surrogate recovery is outside stated control limits.

# QC DATA ASSOCIATION SUMMARY

G0H210471

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	AA	EPA-2 TO-9		0235312	
002	AA	EPA-2 TO-9		0235312	
003	AA	EPA-2 TO-9		0235312	
004	AA	EPA-2 TO-9		0235312	
005	AA	EPA-2 TO-13		0235315	
006	AA	EPA-2 TO-13		0235315	
007	AA	EPA-2 TO-13		0235315	
008	AA	EPA-2 TO-13		0235315	

### Method Blank Report

#### Trace Level Compounds

Lot - Sample #....:	G0H230000 - 315B	Work Order #....:	L518J1AA	Matrix....:	AIR
Date Sampled....:	08/18/10	Date Received....:	08/20/10	Dilution Factor....:	1
Prep Date....:	08/23/10	Analysis Date....:	08/25/10	Volume....:	0
Prep Batch # ....:	0235315	Instrument ID....:	5MH	Method....:	EPA-2 TO-13
Initial Wgt/Vol....:	1 Sample	Analyst ID....:	Steven Scott		

<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		83		60 - 120
2-Fluorobiphenyl		81		58 - 105
2-Fluorophenol		71		41 - 105
Nitrobenzene-d5		76		46 - 118
Phenol-d5		80		43 - 122
Terphenyl-d14		101		69 - 110
2,4,6-Tribromophenol		94		61 - 118

#### QUALIFIERS

**LABORATORY CONTROL SAMPLE DATA REPORT**

**Trace Level Compounds**

<b>Client Lot # ...:</b> G0H210471	<b>Work Order # ...:</b> L518J1AC-LCS	<b>Matrix .....</b> : AIR
<b>LCS Lot-Sample# :</b> G0H230000 - 315	L518J1AD-LCSD	
<b>Prep Date .....</b> : 08/23/10	<b>Analysis Date ..:</b> 08/25/10	
<b>Prep Batch # ...:</b> 0235315		
<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>87.3</b>	<b>ug</b>	<b>87</b>	<b>(70 - 110)</b>		
	<b>100</b>	<b>90.4</b>	<b>ug</b>	<b>90</b>	<b>(70 - 110)</b>	<b>3.4</b>	<b>(0 - 30)</b>
<u>SURROGATE</u>			<u>PERCENT RECOVERY</u>		<u>RECOVERY LIMITS</u>		
2-Fluorobiphenyl			91		(58 - 105)		
			92		(58 - 105)		
2-Fluorophenol			79		(41 - 105)		
			80		(41 - 105)		
Nitrobenzene-d5			86		(46 - 118)		
			87		(46 - 118)		
Phenol-d5			86		(43 - 122)		
			87		(43 - 122)		
Terphenyl-d14			94		(69 - 110)		
			97		(69 - 110)		
2,4,6-Tribromophenol			99		(61 - 118)		
			101		(61 - 118)		

**Notes:**

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

Bold print denotes control parameters



# 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*

Run text: L518H-1-AA Sample text: L518H-1-AA :G0H230000-312B  
 Run #8 Filename: 25AU10A1D5 S: 4 I: 1 Results: 25AU10A1D5TO9  
 Acquired: 25-AUG-10 23:56:42 Processed: 26-AUG-10 15:08:18  
 Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

AK 8/27/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	129594700	0.81 y	17:43	-	68.85	-	-	n
13C-2,3,7,8-TCDF	144294100	0.76 y	17:13	1.56	2851.85	2.13	71.3	n
2,3,7,8-TCDF	80361	0.50 n	17:13	0.87	<del>2.55</del>	3.06	-	n
Total TCDF	199372	0.16 n	14:41	0.87	<del>2.32</del>	3.06	-	n
13C-2,3,7,8-TCDD	96179200	0.77 y	17:55	0.94	3173.87	6.34	79.3	n
2,3,7,8-TCDD	*	* n	NotFnd	0.96	*	3.17	-	n
Total TCDD	67562	4.30 n	17:13	0.96	<del>2.94</del>	3.17	-	n
37Cl-2,3,7,8-TCDD	106293200	1.00 y	17:56	1.22	3634.74	3.30	227.2	n
13C-1,2,3,7,8-PeCDF	103478900	1.66 y	22:14	1.06	3007.61	3.08	75.2	n
1,2,3,7,8-PeCDF	34506	1.23 n	22:17	1.08	<del>1.24</del>	3.77	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.98	*	4.16	-	n
Total F2 PeCDF	54419	1.23 n	22:17	1.03	<del>1.98</del>	<del>3.96</del>	4.16	n
Total F1 PeCDF	55250	0.46 n	18:54	1.03	<del>2.07</del>	<del>3.98</del>	-	n
13C-1,2,3,7,8-PeCDD	61348000	1.66 y	24:16	0.65	2930.23	3.86	73.3	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.92	*	7.13	-	n
Total PeCDD	115786	2.44 n	22:00	0.92	<del>8.16</del>	7.13	-	n
13C-1,2,3,7,8,9-HxCDD	80926800	1.29 y	32:10	-	56.94	-	-	n
13C-1,2,3,4,7,8-HxCDF	77559800	0.50 y	30:24	0.99	3887.75	6.09	97.2	n
1,2,3,4,7,8-HxCDF	*	* n	NotFnd	1.15	*	3.93	-	n
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.24	*	3.64	-	n
2,3,4,6,7,8-HxCDF	58953	2.02 n	31:30	1.22	<del>2.50</del>	3.72	-	n
1,2,3,7,8,9-HxCDF	23692	0.44 n	32:20	1.19	1.03	3.82	-	n
Total HxCDF	96581	2.02 n	31:30	1.20	<del>4.13</del>	<del>3.78</del>	3.93	n
13C-1,2,3,6,7,8-HxCDD	55101800	1.26 y	31:48	0.77	3546.71	4.59	88.7	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.03	*	4.96	-	n
1,2,3,6,7,8-HxCDD	37368	0.94 n	31:49	1.11	<del>2.45</del>	4.61	-	n
1,2,3,7,8,9-HxCDD	36887	2.75 n	32:12	1.24	<del>2.16</del>	4.11	-	n
Total HxCDD	114927	1.58 n	27:18	1.13	<del>7.23</del>	<del>4.53</del>	4.96	n
13C-1,2,3,4,6,7,8-HpCDF	58979600	0.44 y	33:58	0.98	2971.91	6.88	74.3	n
1,2,3,4,6,7,8-HpCDF	55065	2.46 n	33:58	1.35	<del>2.77</del>	3.33	-	n
1,2,3,4,7,8,9-HpCDF	45011	1.91 n	35:13	1.19	<del>2.57</del>	3.79	-	n
Total HpCDF	100075	2.46 n	33:58	1.27	<del>5.34</del>	<del>3.54</del>	3.79	n
13C-1,2,3,4,6,7,8-HpCDD	49769100	1.02 y	34:52	0.81	3053.18	4.00	76.3	n
1,2,3,4,6,7,8-HpCDD	31251	0.79 n	34:53	1.03	<del>2.45</del>	4.22	-	n
Total HpCDD	113998	2.63 n	33:58	1.03	<del>8.93</del>	4.22	-	n
13C-OCDD	68709100	0.88 y	37:31	0.62	5520.95	4.94	69.0	n
OCDF	71025	0.48 n	37:38	1.44	5.72	4.53	-	n
OCDD	132901	0.78 y	37:32	1.09	14.19	4.98	-	n

Run Text: L518H-1-AA

Sample text: L518H-1-AA :G0H230000-312B

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:4  
 Run: 8 File: 25AU10A1D5 S:4 Acq:25-AUG-10 23:56:42  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 3.16 of which 1.27 named and 1.89 unnamed  
 Conc: 6.32 of which 2.55 named and 3.77 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:41	0.16 n	0.51	6992 45047	0.6 3.1	n y	n n
	2	16:51	0.78 y	2.66	36684 47275	3.4 2.3	y n	n n
2,3,7,8-TCDF	3	17:13	0.50 n	2.55	34960 69414	2.0 2.9	n n	n n
	4	17:24	1.18 n	0.60	12673 10723	0.8 0.7	n n	n n

Run Text: L518H-1-AA

Sample text: L518H-1-AA :G0H230000-312B

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:2  
 Run: 8 File: 25AU10A1D5 S:4 Acq:25-AUG-10 23:56:42  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 1.47 of which \* named and 1.47 unnamed  
 Conc: 2.94 of which \* named and 2.94 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	17:13	4.30 n	0.89	49670 11543	3.4 1.5	y n	n n
	2	18:49	1.91 n	2.05	50981 26628	2.7 2.7	n n	n n

Run Text: L518H-1-AA

Sample text: L518H-1-AA :G0H230000-312B

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:2  
 Run: 8 File: 25AU10A1D5 S:4 Acq:25-AUG-10 23:56:42  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 0.99 of which 0.62 named and 0.37 unnamed  
 Conc: 1.98 of which 1.24 named and 0.75 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,7,8-PeCDF	1	22:17	1.23	n	1.24	20975	2.3	n n
						17120	1.4	n n
	2	25:48	0.39	n	0.75	12104	1.9	n n
						31079	1.7	n n

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Run Text: L518H-1-AA Sample text: L518H-1-AA :G0H230000-312B

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:2  
 Run: 8 File: 25AU10A1D5 S:4 Acq:25-AUG-10 23:56:42  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

Amount: 1.04 of which \* named and 1.04 unnamed  
 Conc: 2.07 of which \* named and 2.07 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	18:54	0.46	n	1.59	25784	3.6	y n
						55651	3.2	y n
	2	19:32	0.21	n	0.48	7799	1.3	n n
						36652	2.0	n n

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Run Text: L518H-1-AA Sample text: L518H-1-AA :G0H230000-312B

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:2  
 Run: 8 File: 25AU10A1D5 S:4 Acq:25-AUG-10 23:56:42  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

Amount: 4.08 of which \* named and 4.08 unnamed  
 Conc: 8.16 of which \* named and 8.16 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	22:00	2.44	n	1.23	16702	1.5	n n
						6858	1.0	n n
	2	23:56	2.24	n	6.93	86529	6.0	y n
						38548	2.9	n n

Run Text: L518H-1-AA

Sample text: L518H-1-AA :G0H230000-312B

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:3  
 Run: 8 File: 25AU10A1D5 S:4 Acq:25-AUG-10 23:56:42  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

Amount: 2.06 of which 1.76 named and 0.30 unnamed  
 Conc: 4.13 of which 3.53 named and 0.60 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
2,3,4,6,7,8-HxCDF	1	31:30	2.02	n	2.50	53247	2.9	n n
						26318	3.3	y n
1,2,3,7,8,9-HxCDF	2	32:20	0.44	n	1.03	13115	1.1	n n
						29573	3.8	y n
	3	32:30	0.37	n	0.60	7715	0.7	n n
						20629	3.3	y n

Run Text: L518H-1-AA

Sample text: L518H-1-AA :G0H230000-312B

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:3  
 Run: 8 File: 25AU10A1D5 S:4 Acq:25-AUG-10 23:56:42  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

Amount: 3.61 of which 2.30 named and 1.31 unnamed  
 Conc: 7.23 of which 4.61 named and 2.62 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:18	1.58	n	2.62	28658	2.6	n n
						18157	1.6	n n
1,2,3,6,7,8-HxCDD	2	31:49	0.94	n	2.45	20686	2.6	n n
						22055	1.4	n n
1,2,3,7,8,9-HxCDD	3	32:12	2.75	n	2.16	45227	4.3	y n
						16467	1.6	n n

Run Text: L518H-1-AA

Sample text: L518H-1-AA :G0H230000-312B

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:2  
 Run: 8 File: 25AU10A1D5 S:4 Acq:25-AUG-10 23:56:42  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

Amount: 2.67 of which 2.67 named and \* unnamed  
 Conc: 5.34 of which 5.34 named and \* unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:58	2.46	n	2.77	66400	3.7	y n
						26993	3.3	y n
1,2,3,4,7,8,9-HpCDF	2	35:13	1.91	n	2.57	42242	3.3	y n
						22064	2.8	n n

Totals Results      TestAmerica West Sacramento      Page 9 of 9

Run Text: L518H-1-AA

Sample text: L518H-1-AA :G0H230000-312B

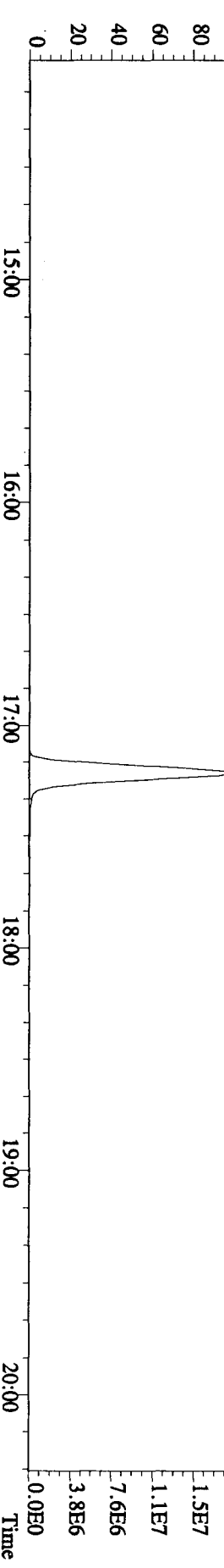
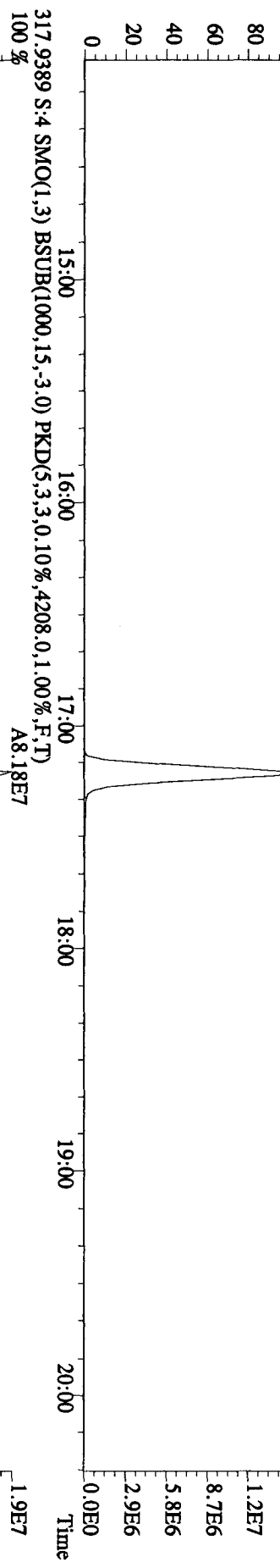
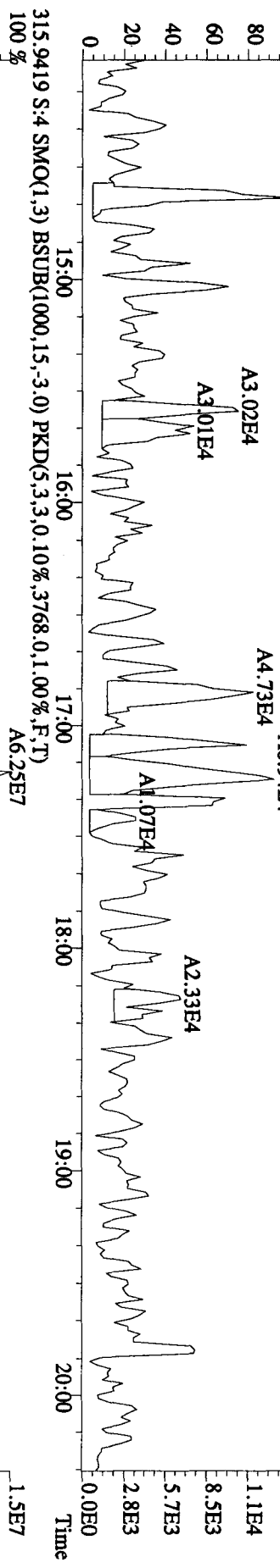
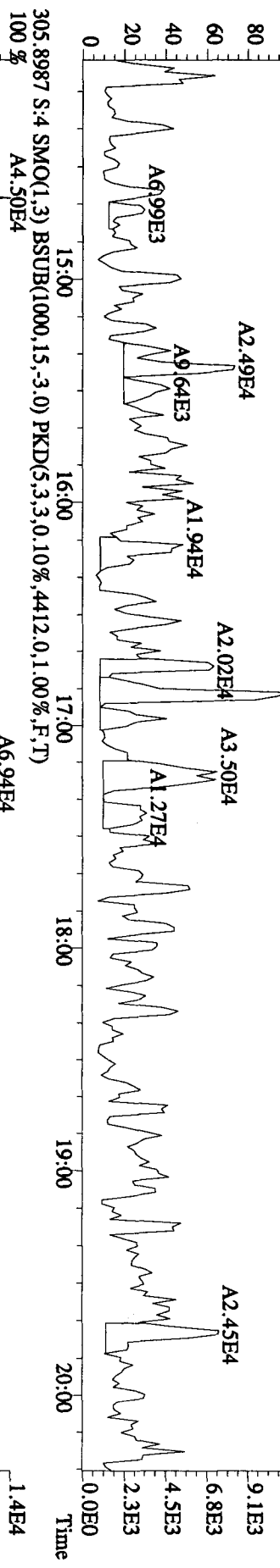
Name: Total HpCDD      F:4      Mass: 423.777 425.774      Mod? no      #Hom:3  
 Run: 8      File: 25AU10A1D5      S:4      Acq:25-AUG-10 23:56:42  
 Tables: Run: 25AU10A1D5      Analyte: TO9      Cal: TO90727101D5      Results: 25AU10A1

Amount:      4.46 of which      1.22 named and      3.24 unnamed  
 Conc:      8.93 of which      2.45 named and      6.48 unnamed

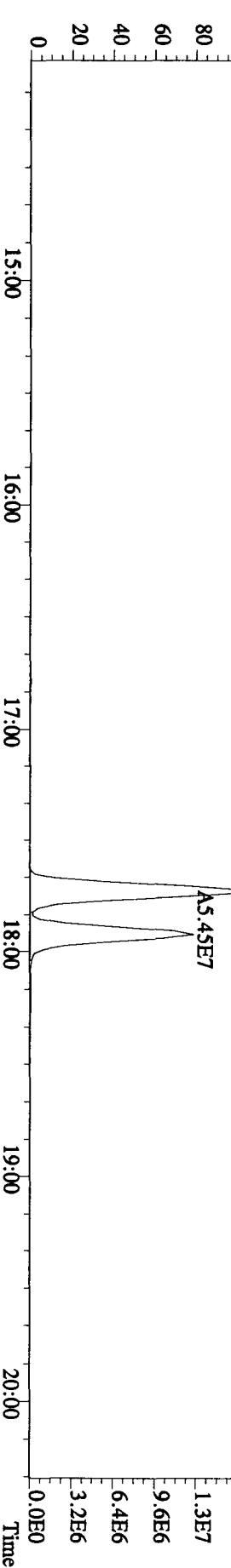
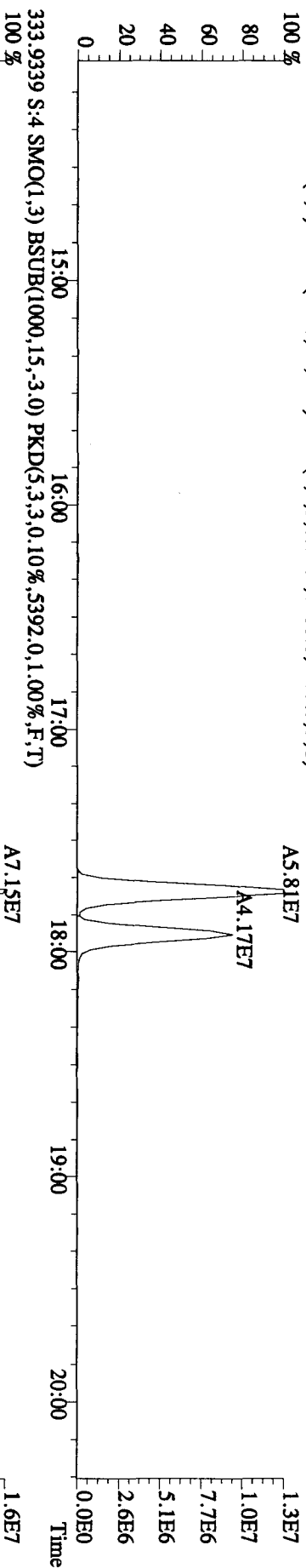
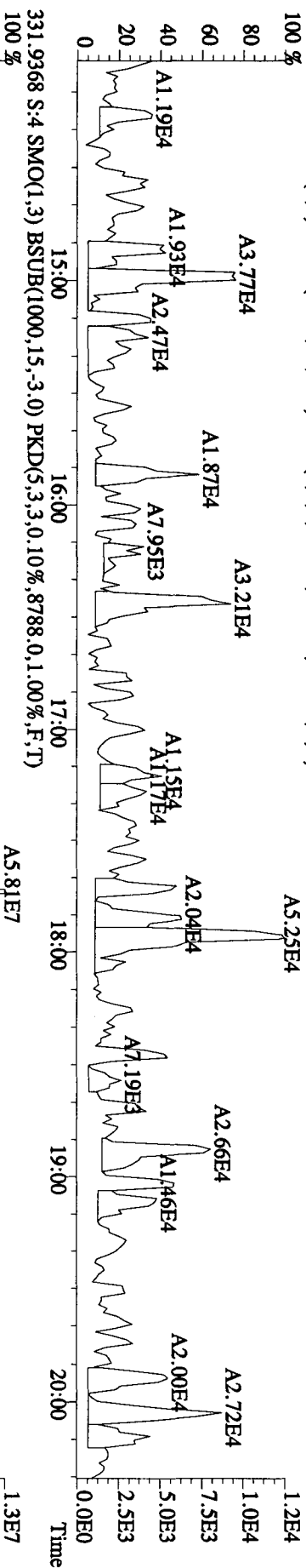
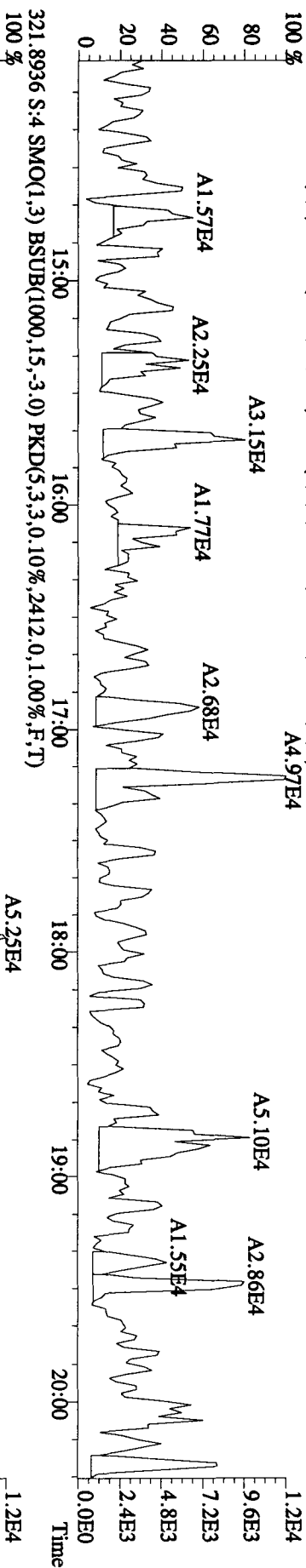
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	33:58	2.63	n	3.19	52460	4.0	y n
						19944	1.7	n n
1,2,3,4,6,7,8-HpCDD	2	34:53	0.79	n	2.45	15932	1.7	n n
						20119	2.4	n n
	3	35:03	0.54	n	3.29	21443	2.7	n n
						39603	3.7	y n



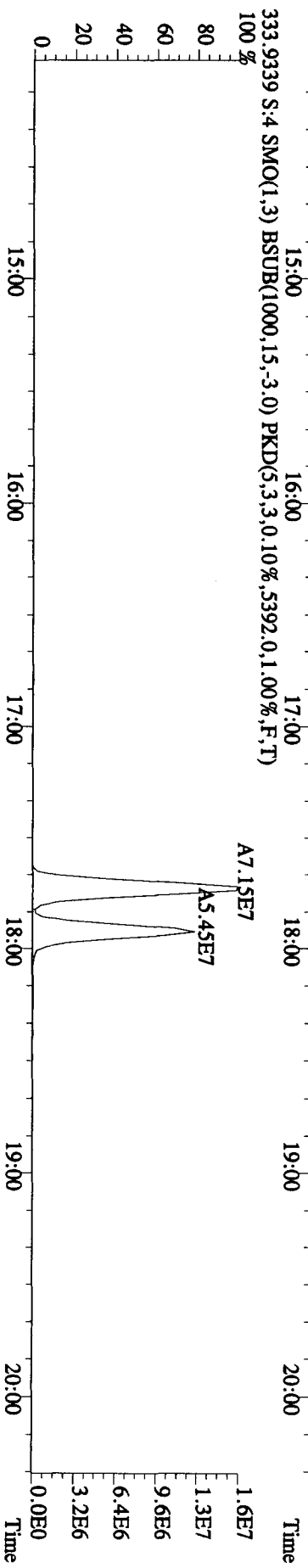
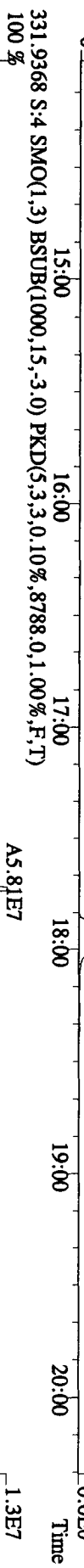
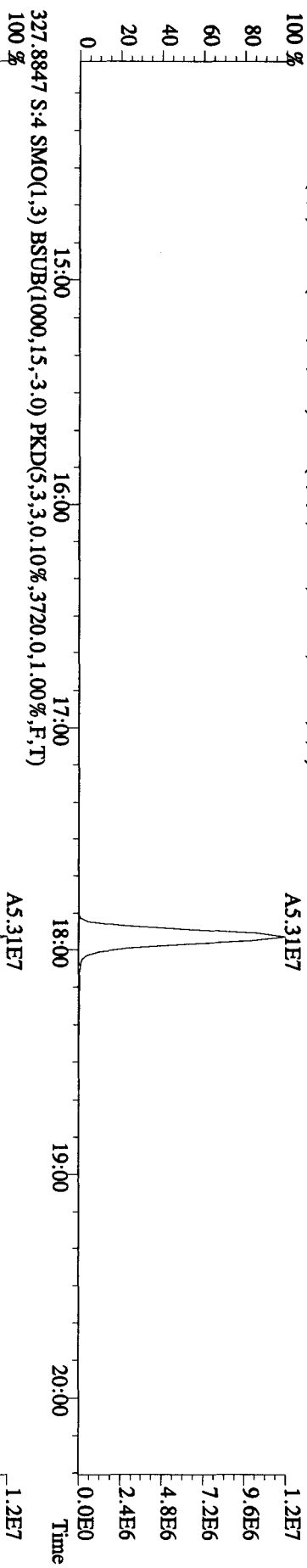
File:25AU10A1IDS #1-372 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
 303.9016 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3080.0,1.00%,F,T)  
 100 %



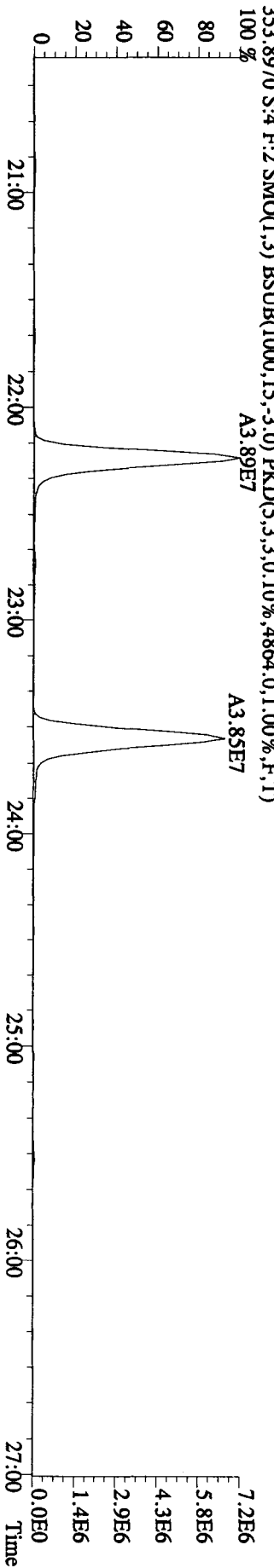
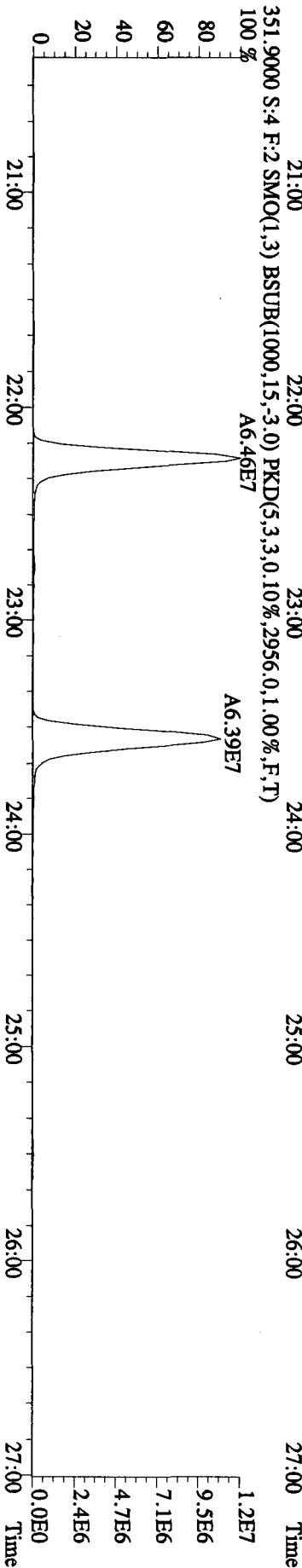
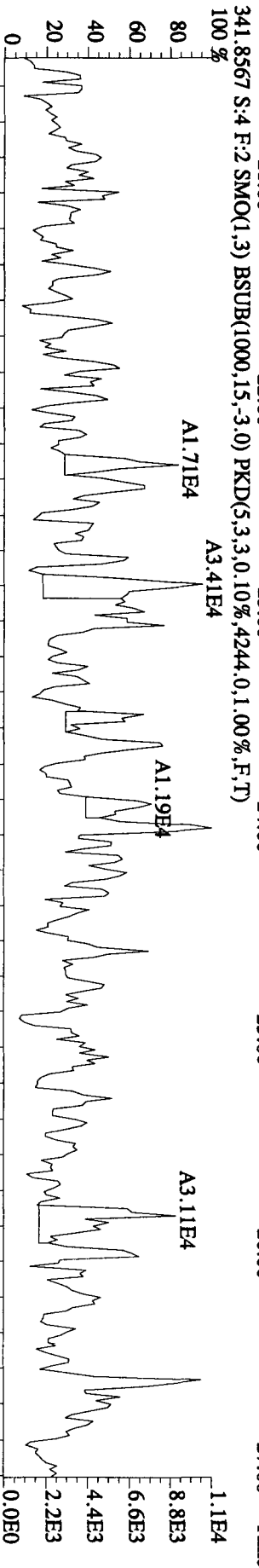
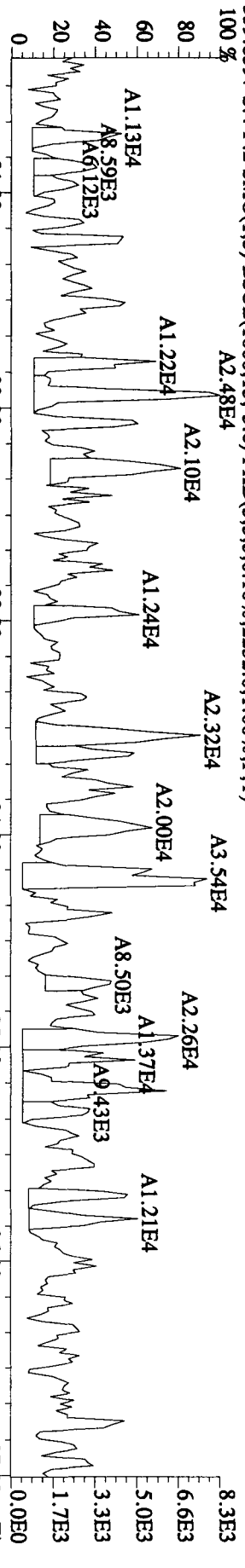
File:25AUI0AID5 #1-372 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3204,0,1,00%,F,T)  
 100 %



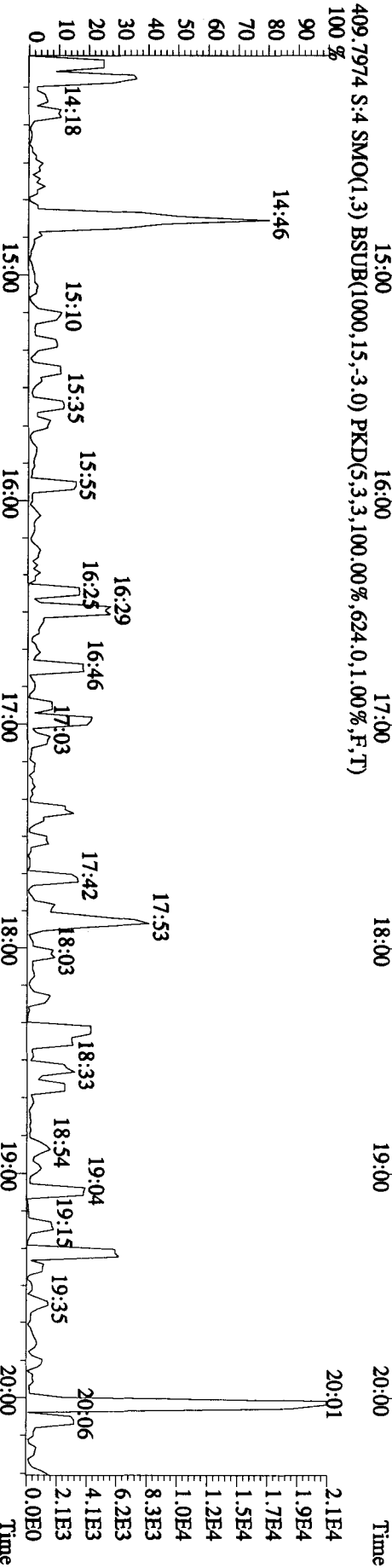
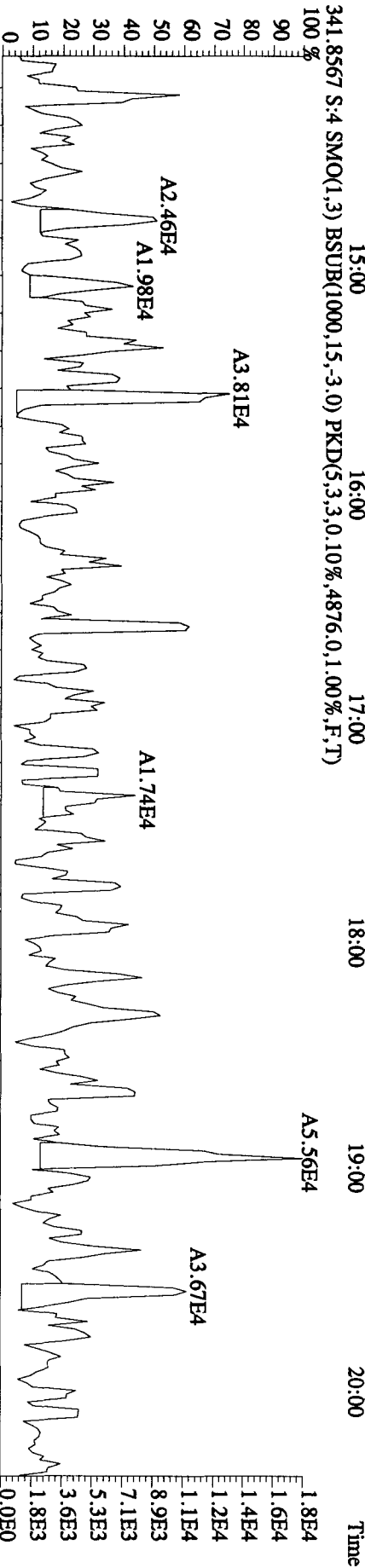
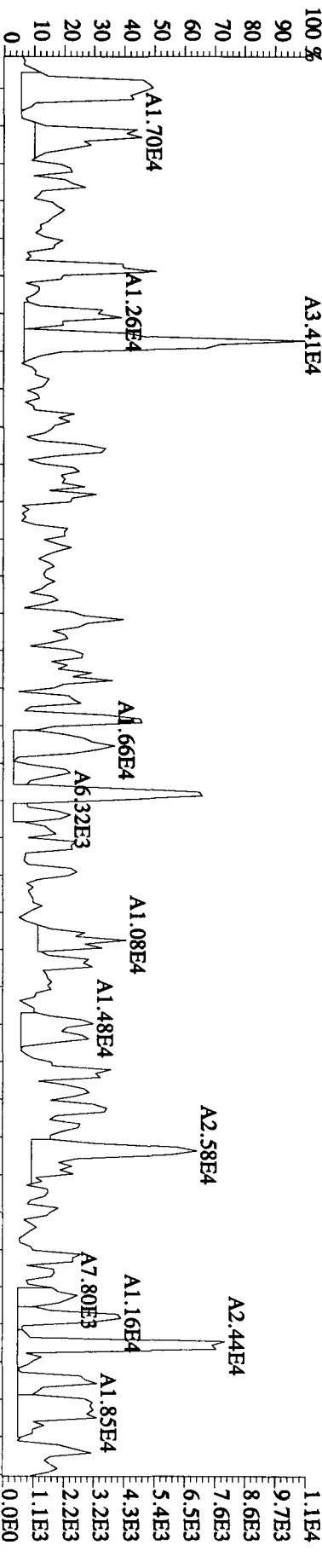
File:25AU10A1D5 #1-372 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:1.518H-1-AA :G0H230000-312B Exp:DIOXINRES  
 327.8847 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3720.0,1.00%,F,T)  
 100 %



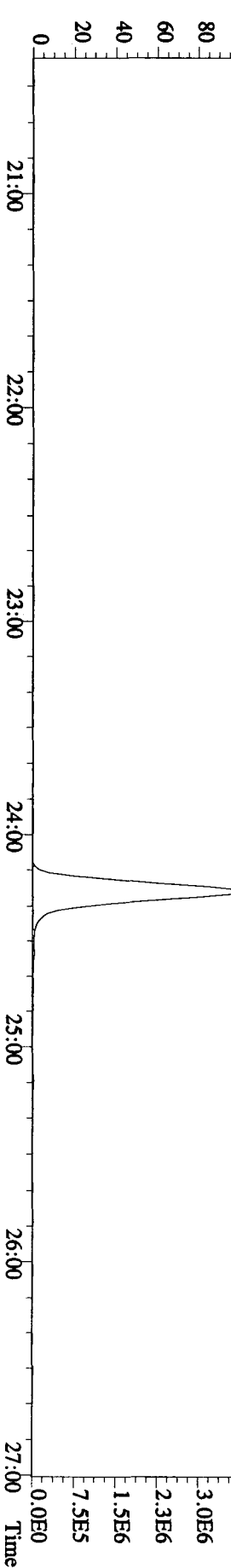
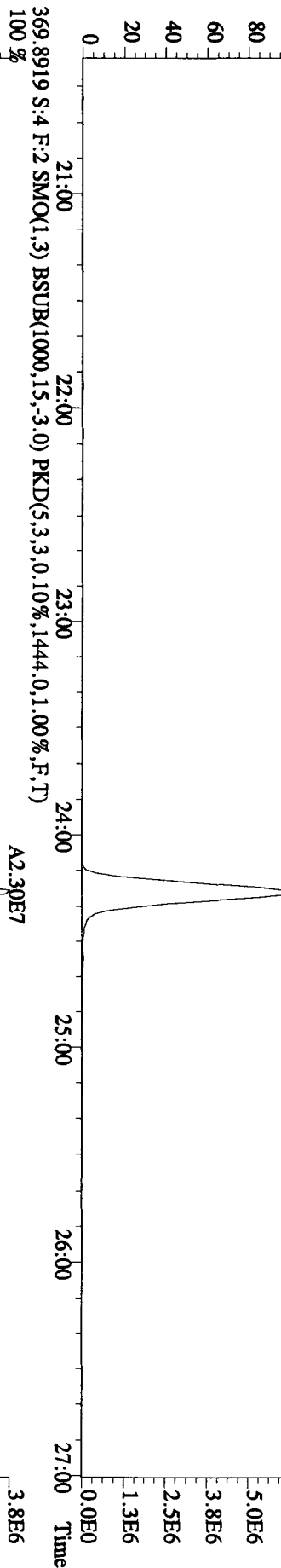
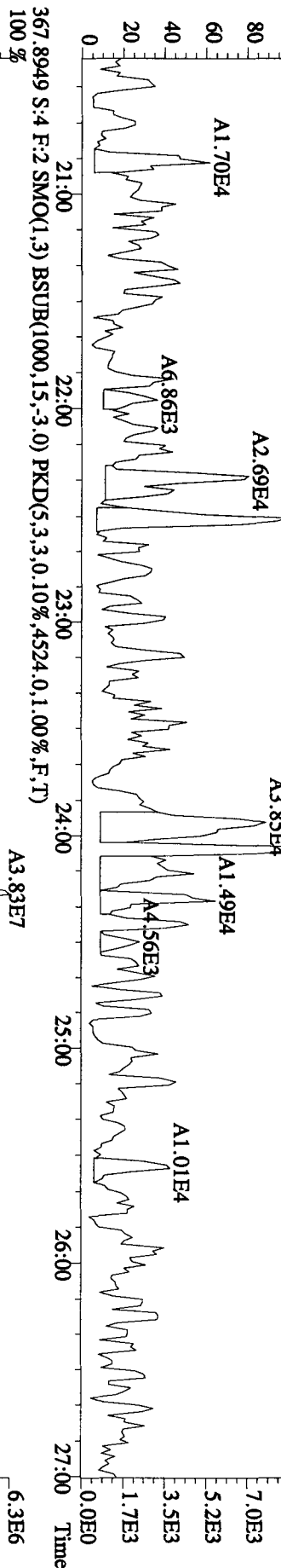
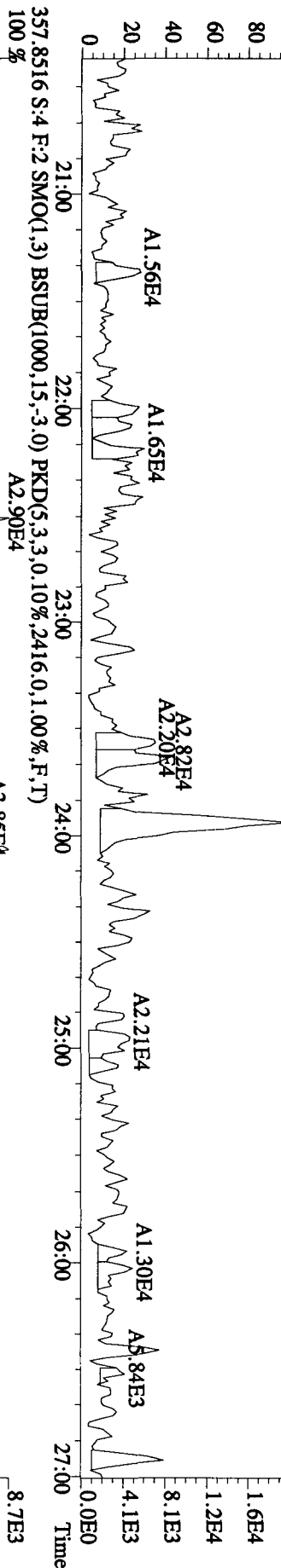
Sample#4 Text:1518H-1-AA :G0H23000-312B  
 339.8597 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2232.0,1.00%,F,T)



File:25AU10A1D5 #1-372 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
 339.8597 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1636.0,1.00%,F,T)  
 A3.41E4



357.8516 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2416,0.1,00%,F,T) 100% A8.65E4

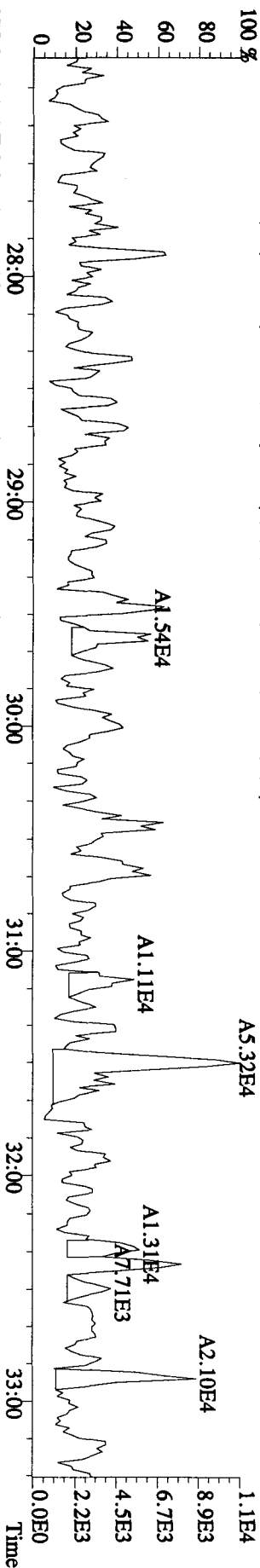


File:25AU10A1D5 #1-406 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE

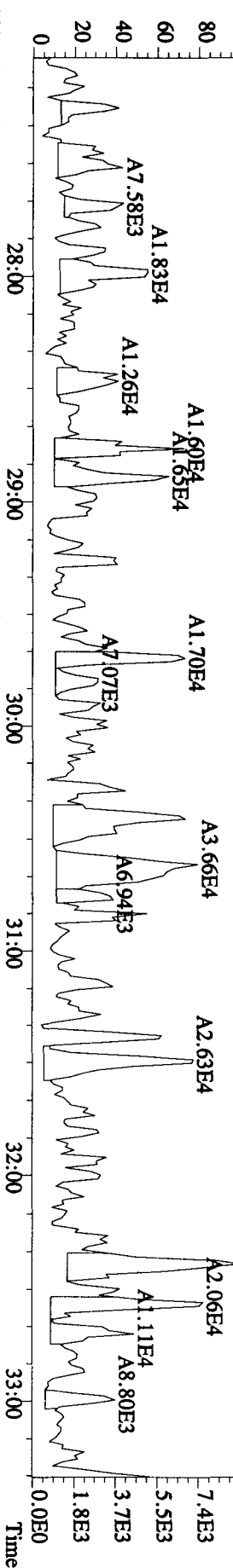
Exp:DIOXINRES

Sample#4 Text:L518H-1-AA :G0H230000-312B

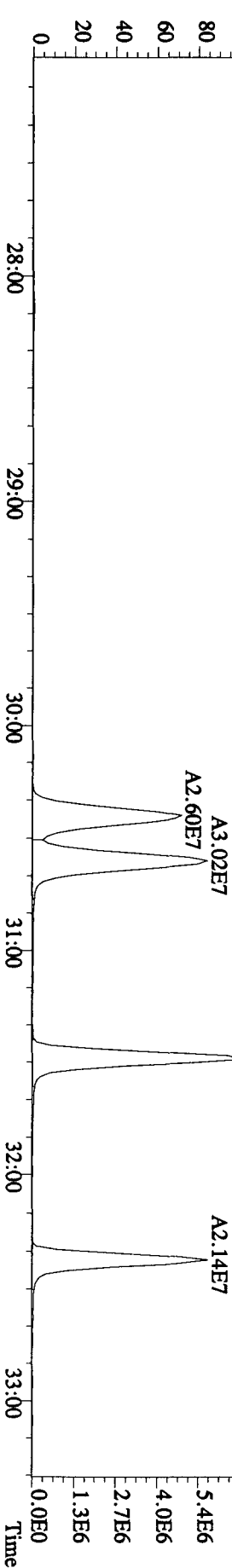
373.8208 S:4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3424,0,1,00%,F,T)



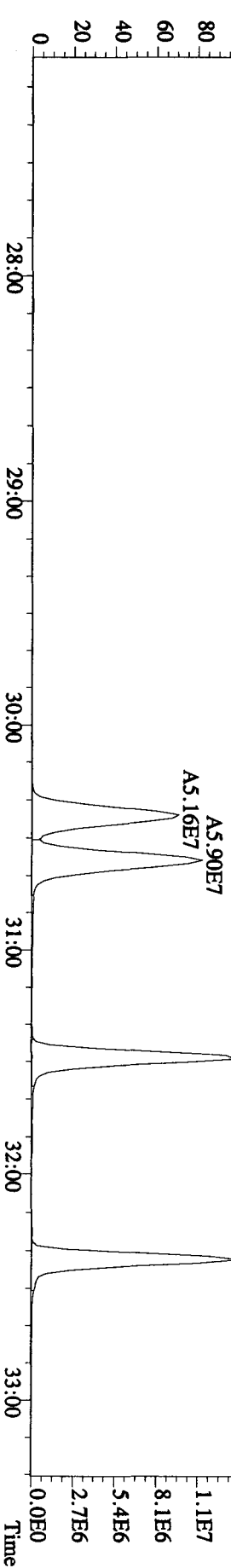
375.8178 S:4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2008,0,1,00%,F,T)



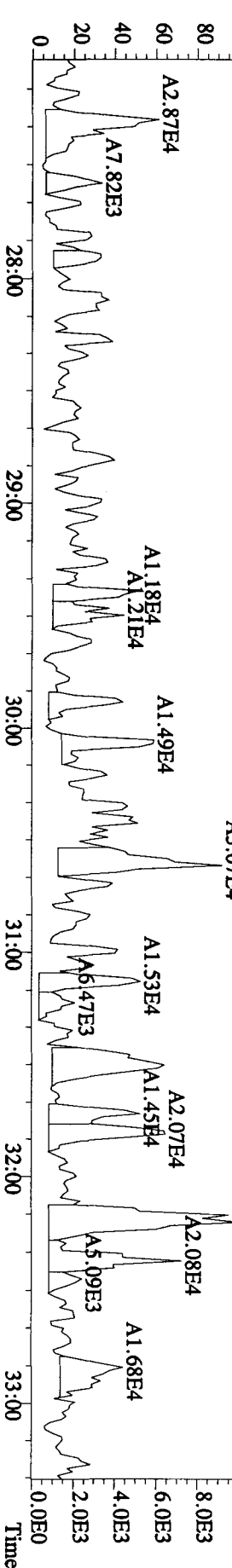
383.8639 S:4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5700,0,1,00%,F,T)



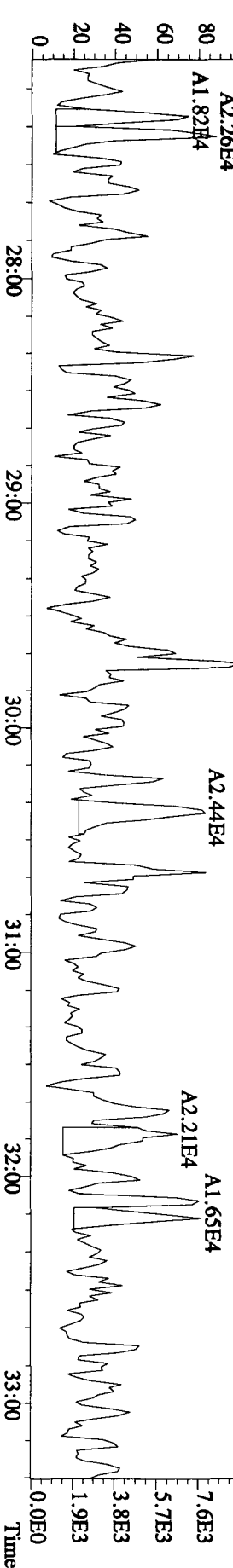
385.8610 S:4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4660,0,1,00%,F,T)



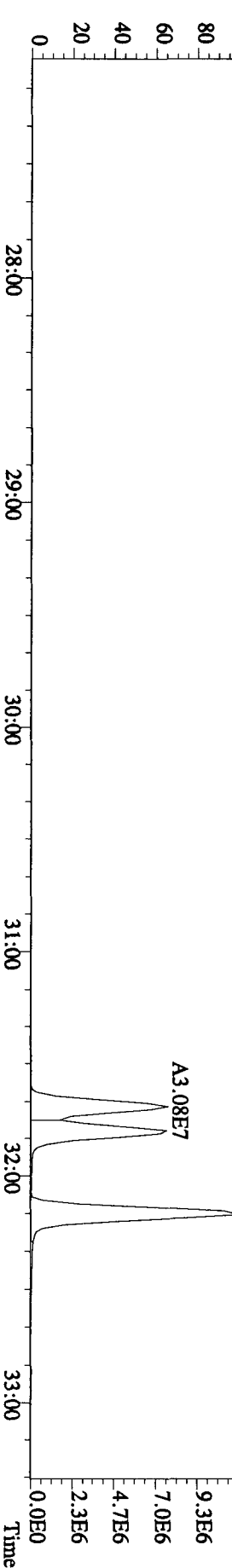
File:25AUI0A1D5 #1-406 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2132,0,1,00%,F,T)  
100 %



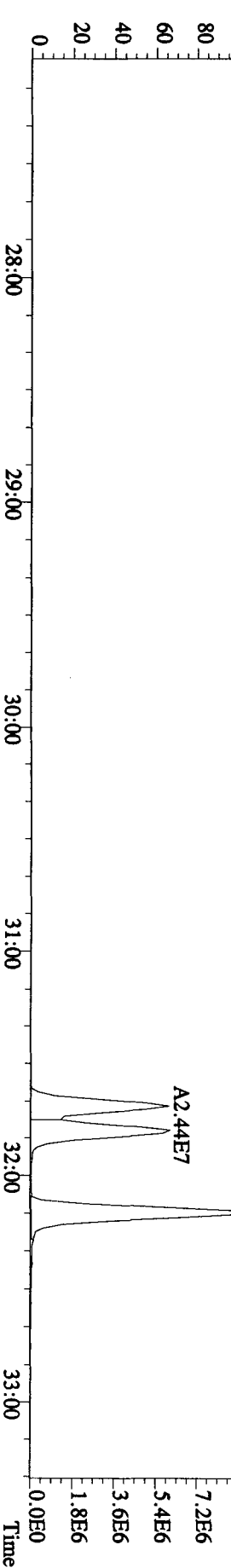
391.8127 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3676,0,1,00%,F,T)  
100 %



401.8559 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2188,0,1,00%,F,T)  
100 %

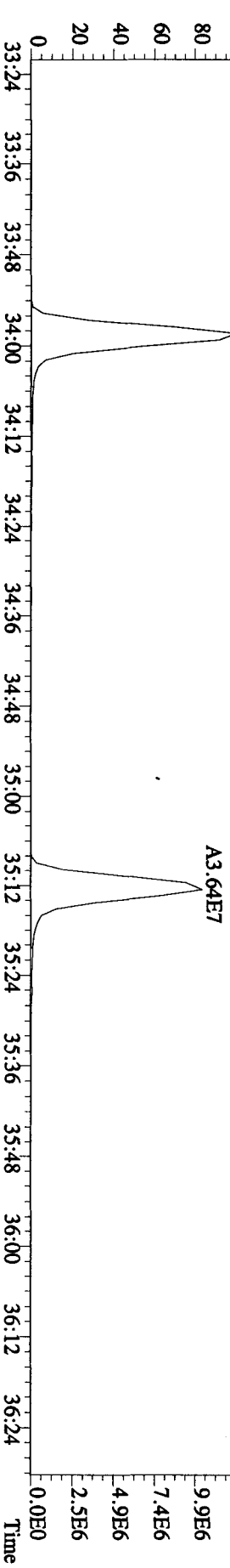
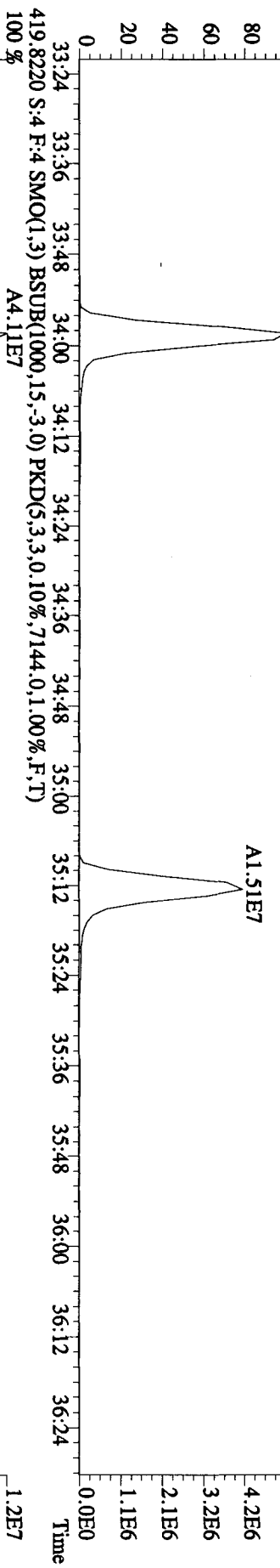
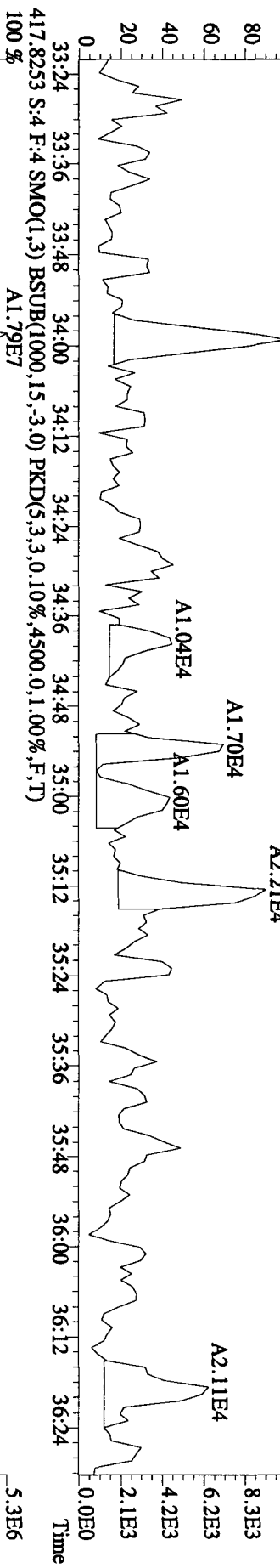
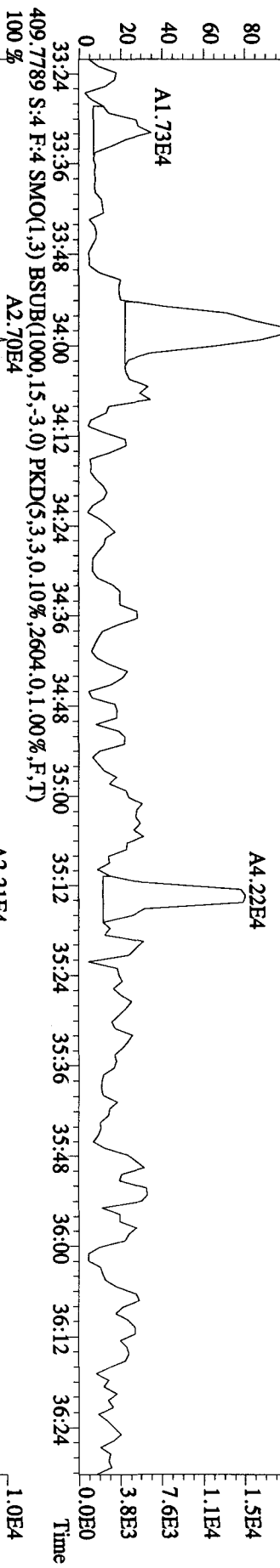


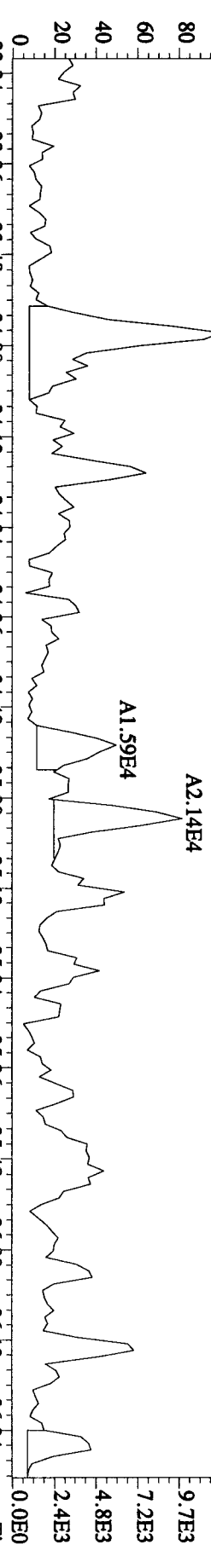
403.8529 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3888,0,1,00%,F,T)  
100 %



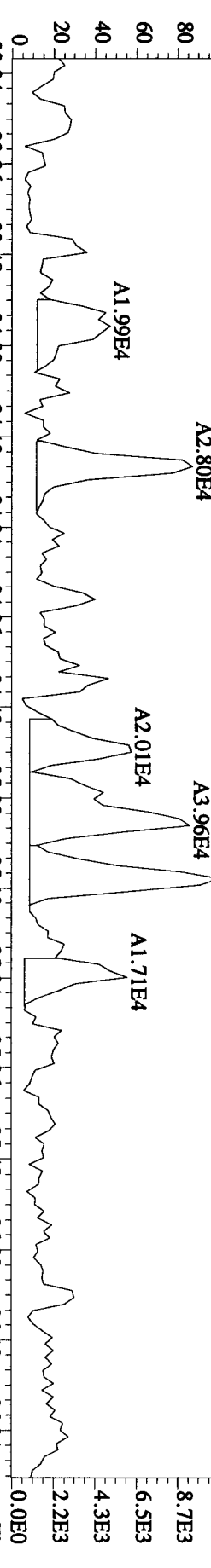


File: 25AU10A1D5 #1-214 Acq: 25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text: L518H-1-AA :G0H230000-312B Exp: DIOXINES  
 407.7818 S:4 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3984,0.1,00%,F,T)  
 100%

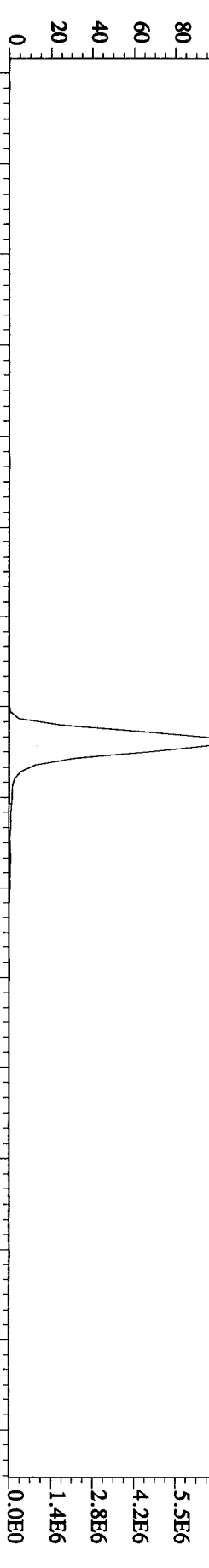




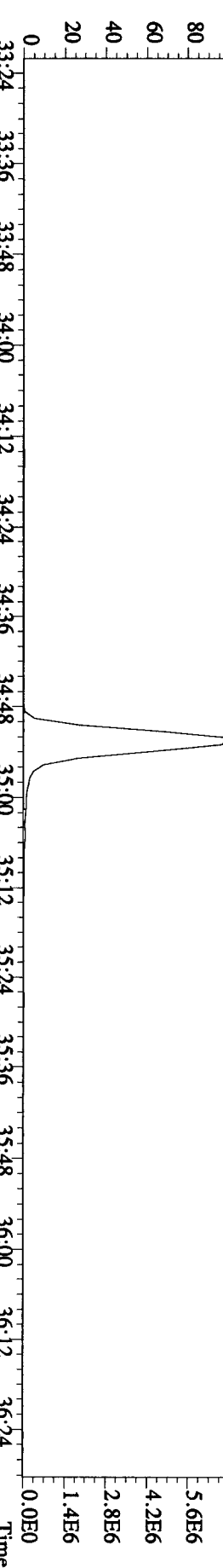
425.7737 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2240,0,1,00%,F,T)



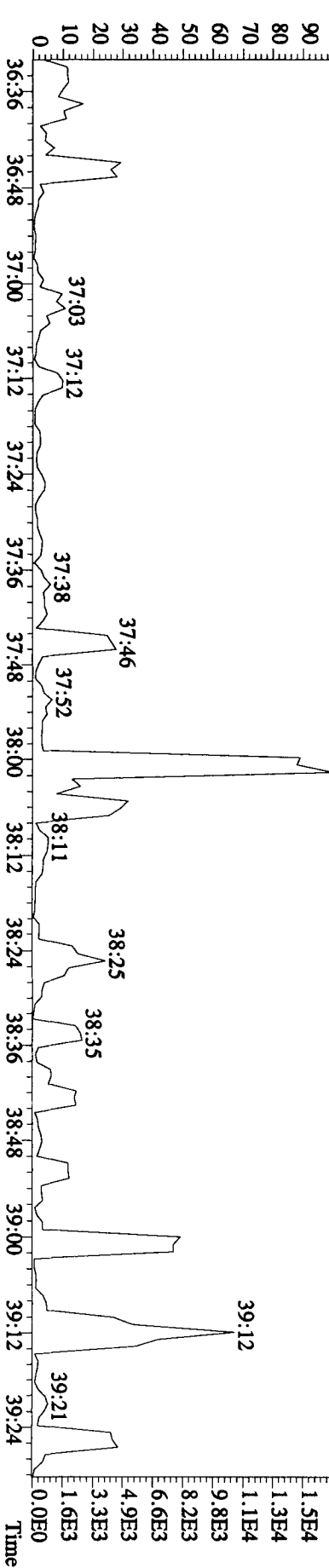
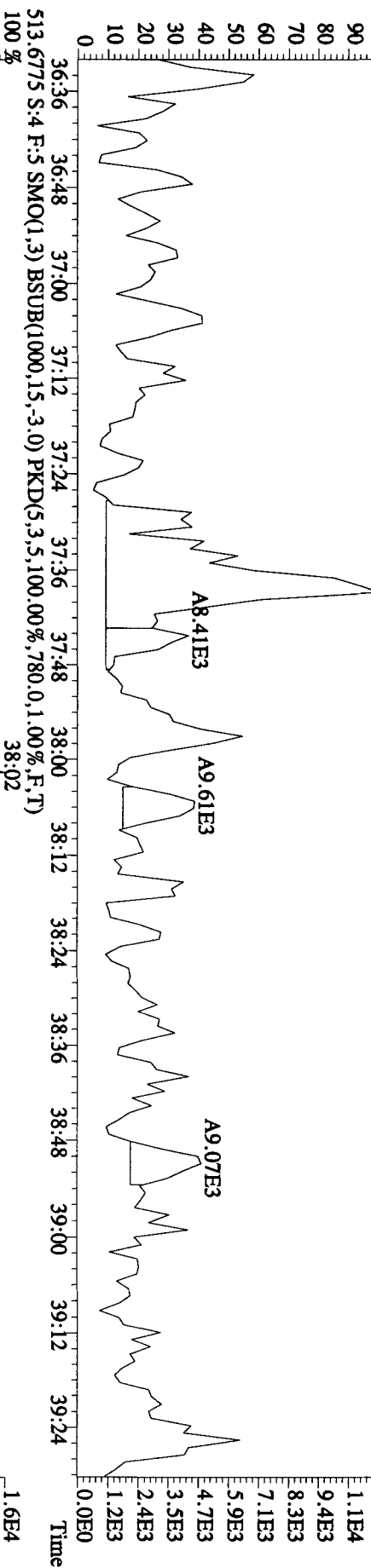
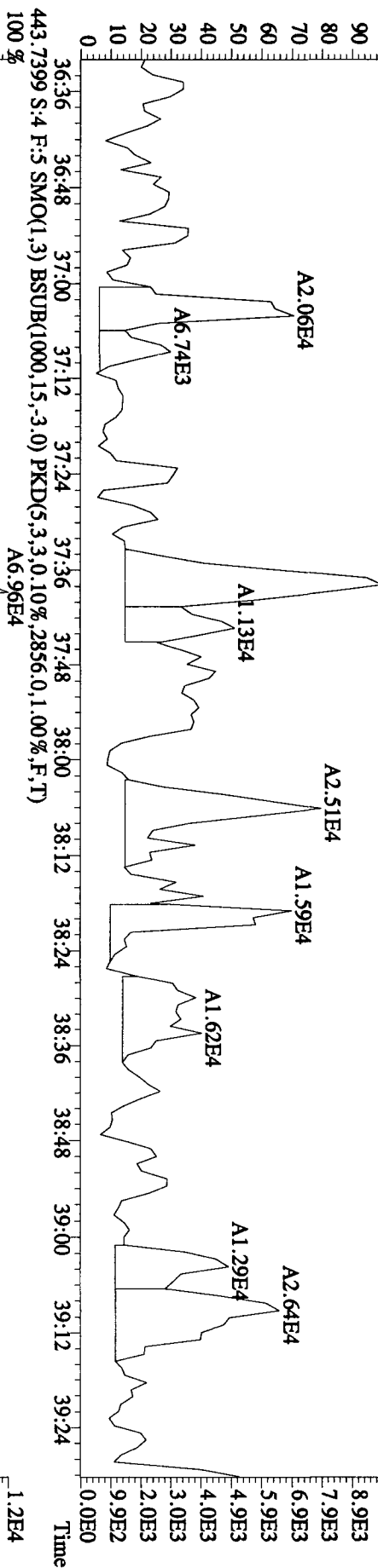
435.8169 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3312,0,1,00%,F,T)



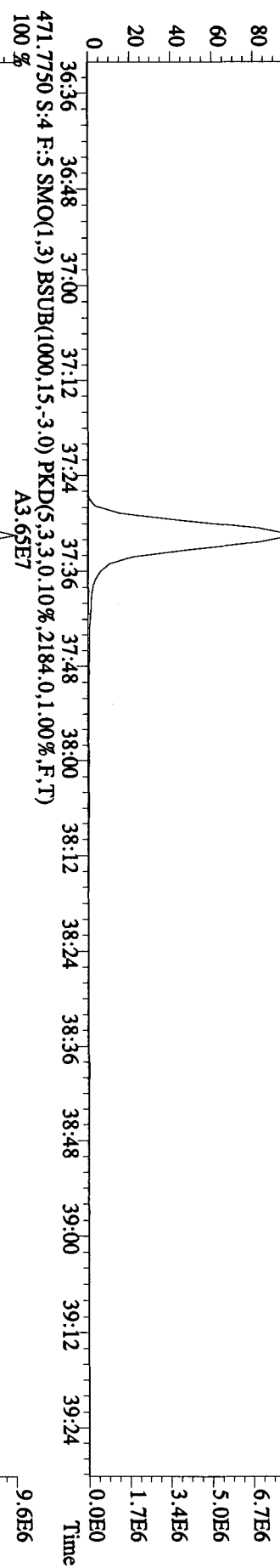
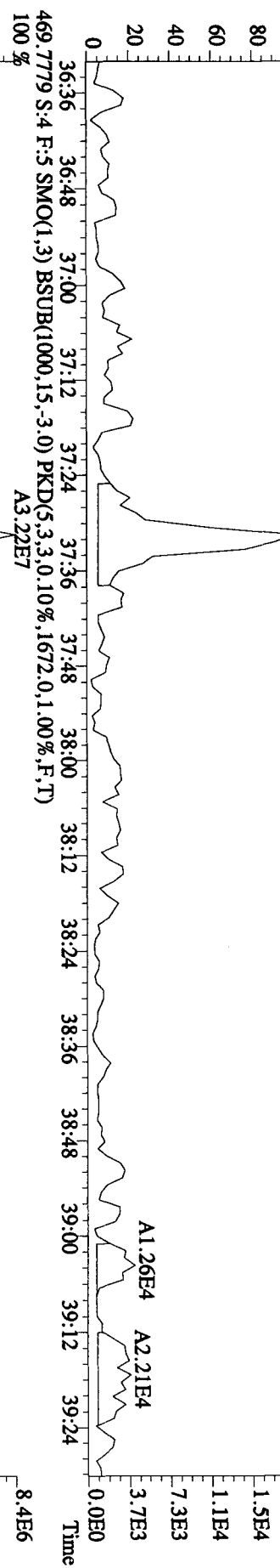
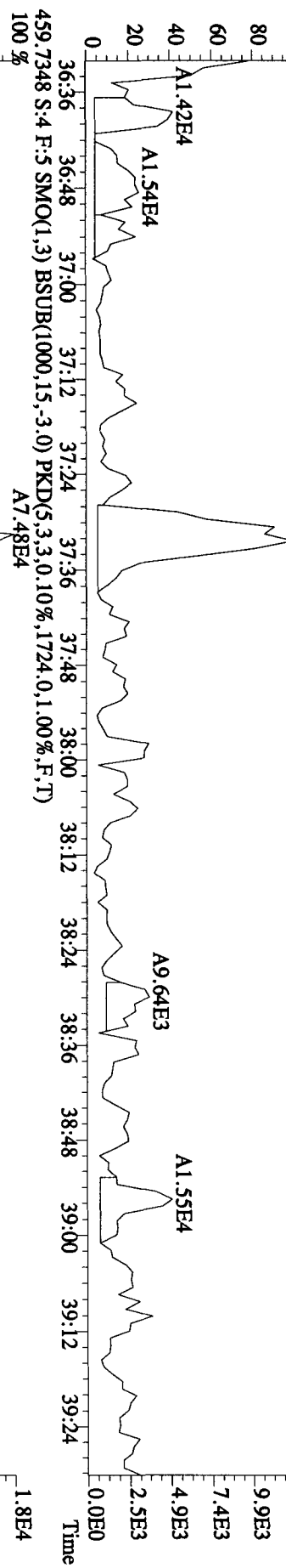
437.8140 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2244,0,1,00%,F,T)

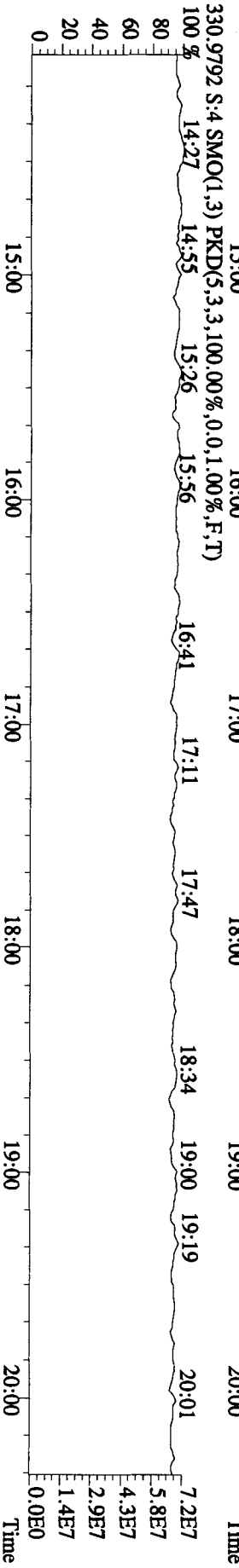
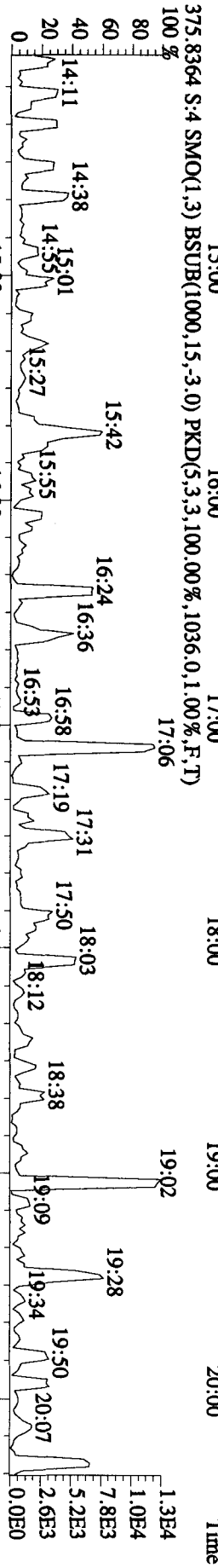
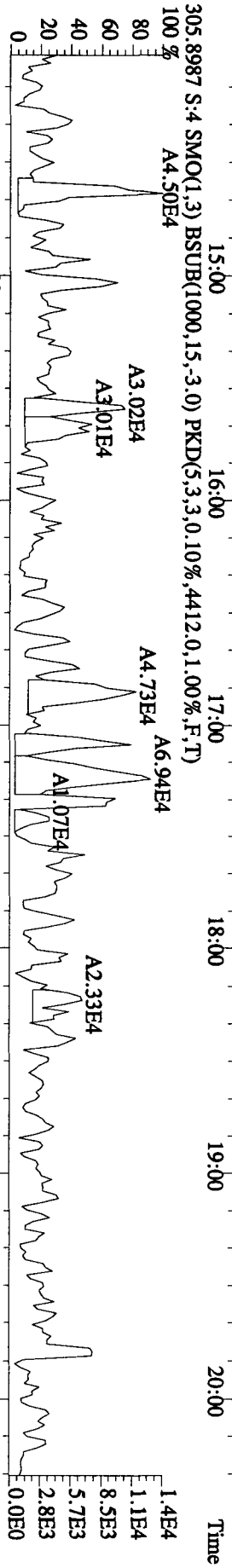
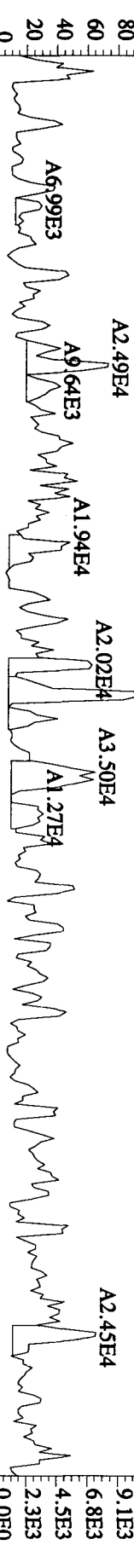
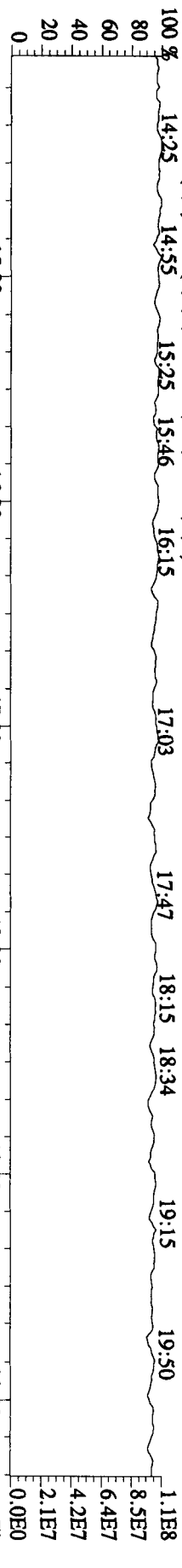


File: 25AU10A1D5 #1-196 Acq: 25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text: L518H-1-AA :G0H230000-312B Exp: DIOXINRES  
 441.7428 S:4 F:5 SMO(1.3) BSUB(1000.15,-3.0) PKD(5.3,3.0,10%,2040.0,1.00%,F,T)  
 100%

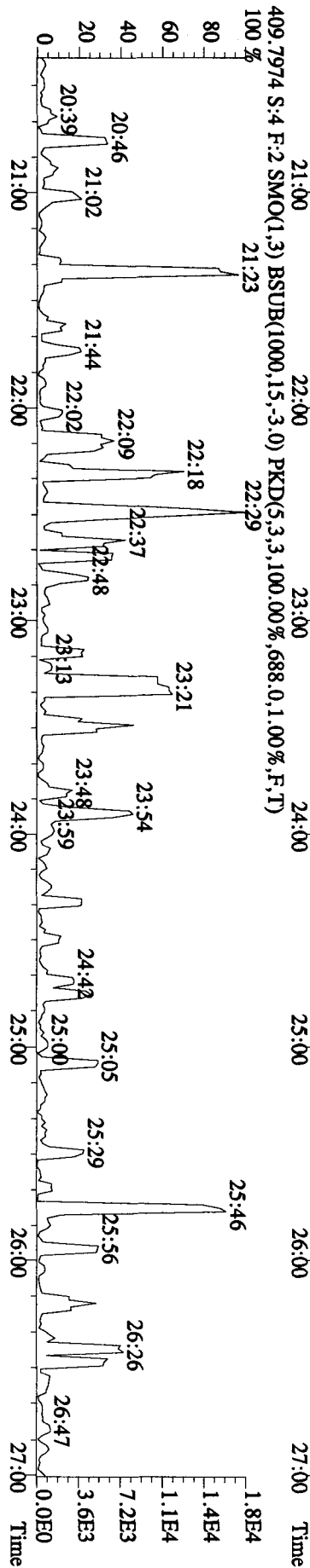
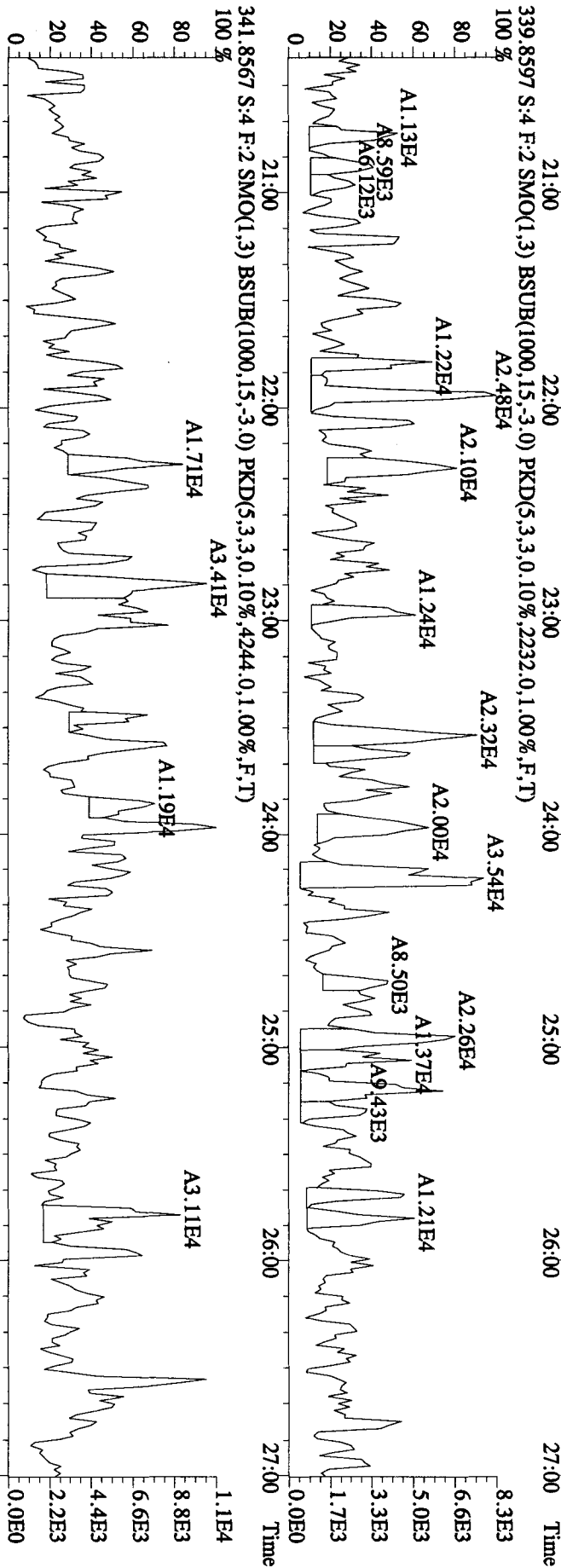
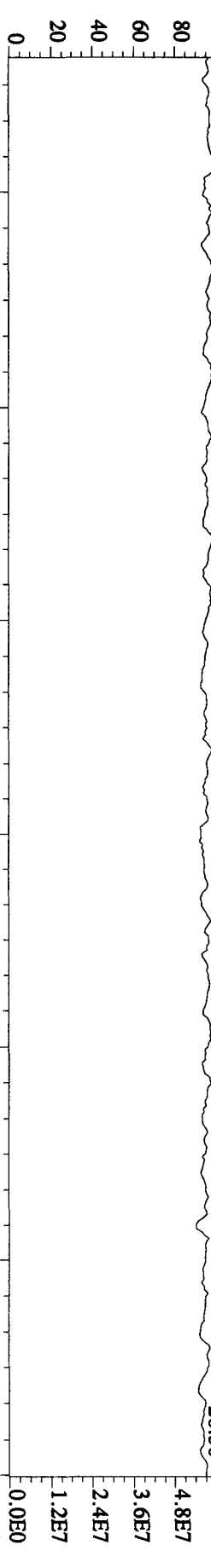


File: 25AU10A1IDS #1-196 Acq: 25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text: L518H-1-AA : G0H230000-312B Exp: DIOXINRES  
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2336,0,1,00%,F,T)  
 100%



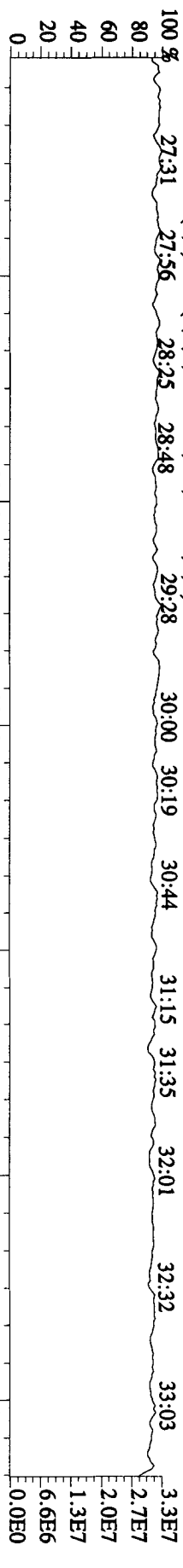


File:25AUI010AIDS #1-414 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
 342.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 %20:32 20:52 21:21 21:50 22:37 23:07 23:36 24:25 25:10 25:54 26:25 26:50

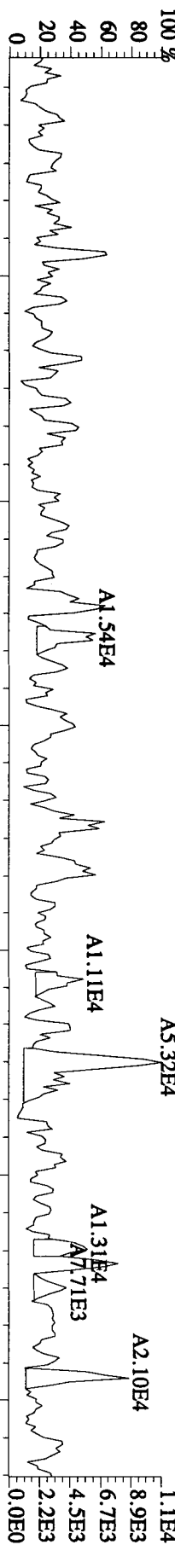


Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES

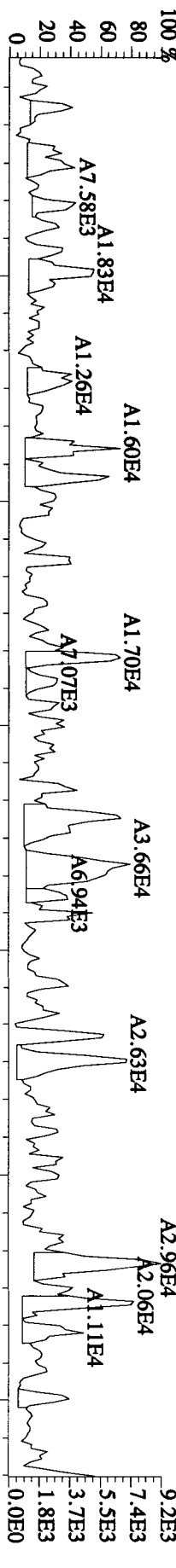
392.9760 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



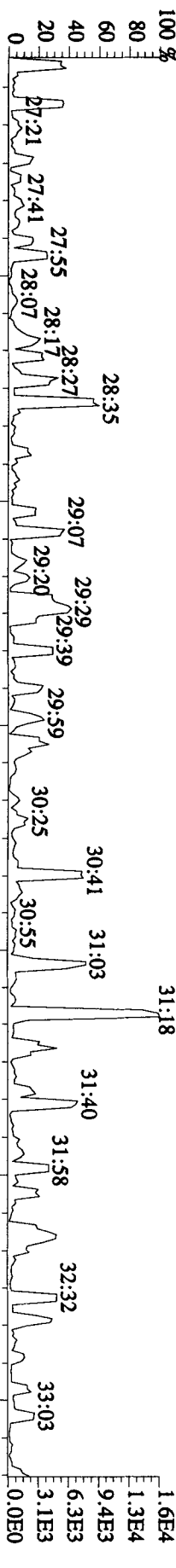
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3424,0.1,00%,F,T)



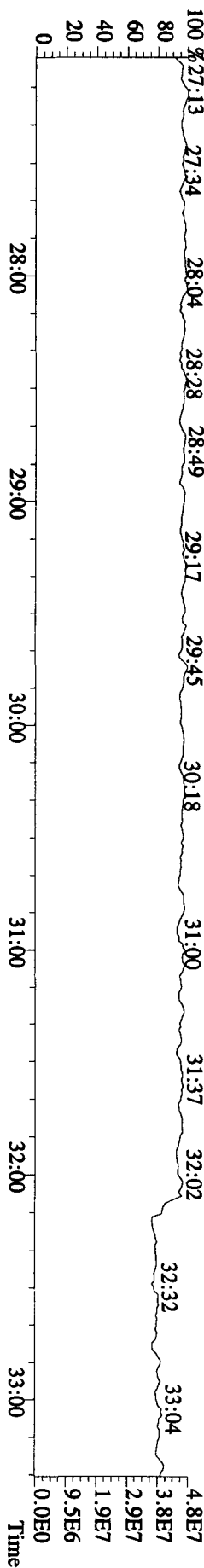
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2008,0.1,00%,F,T)

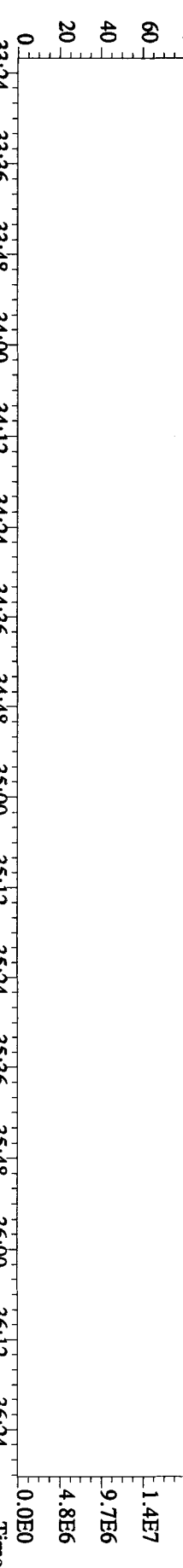


445.7555 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,636,0.1,00%,F,T)

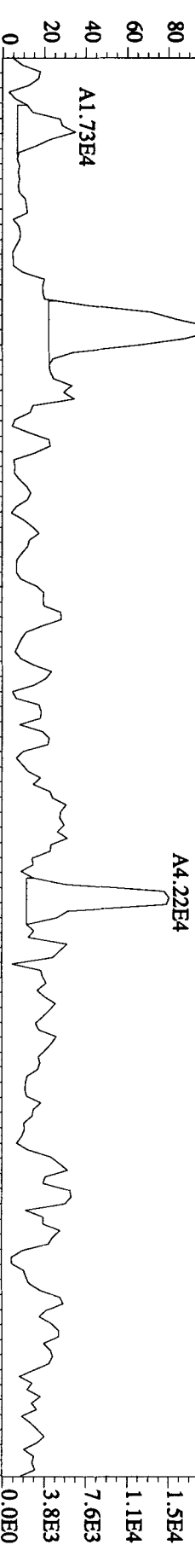


380.9760 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

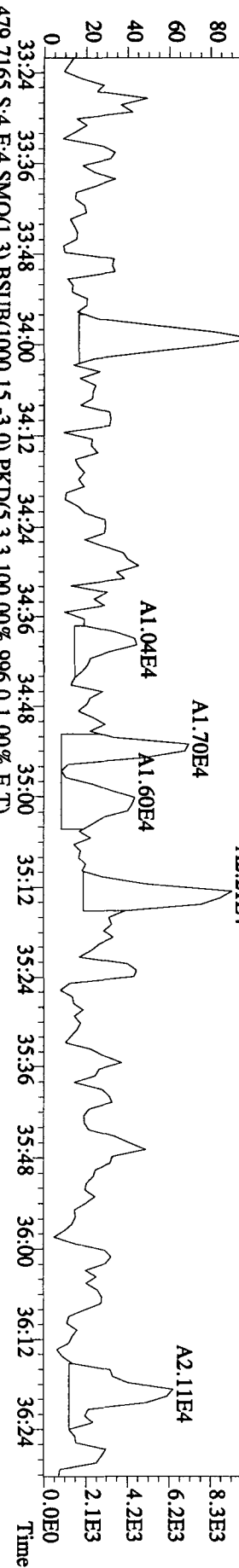




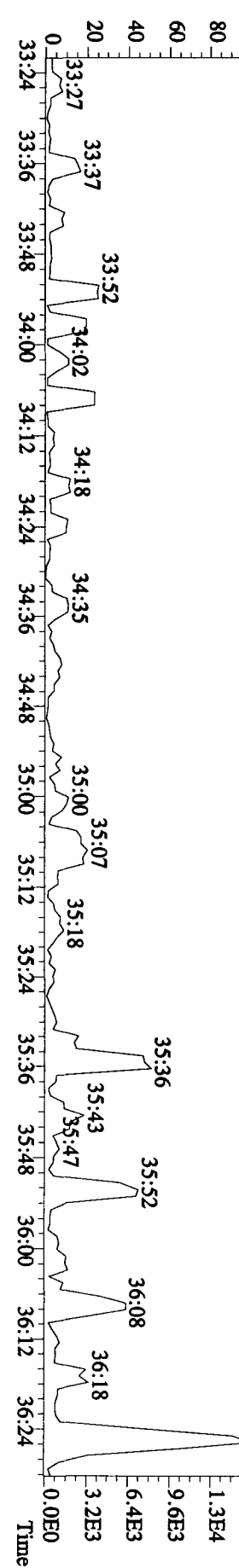
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3984,0,1.00%,F,T)



409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2604,0,1.00%,F,T)



479.7165 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,996,0,1.00%,F,T)



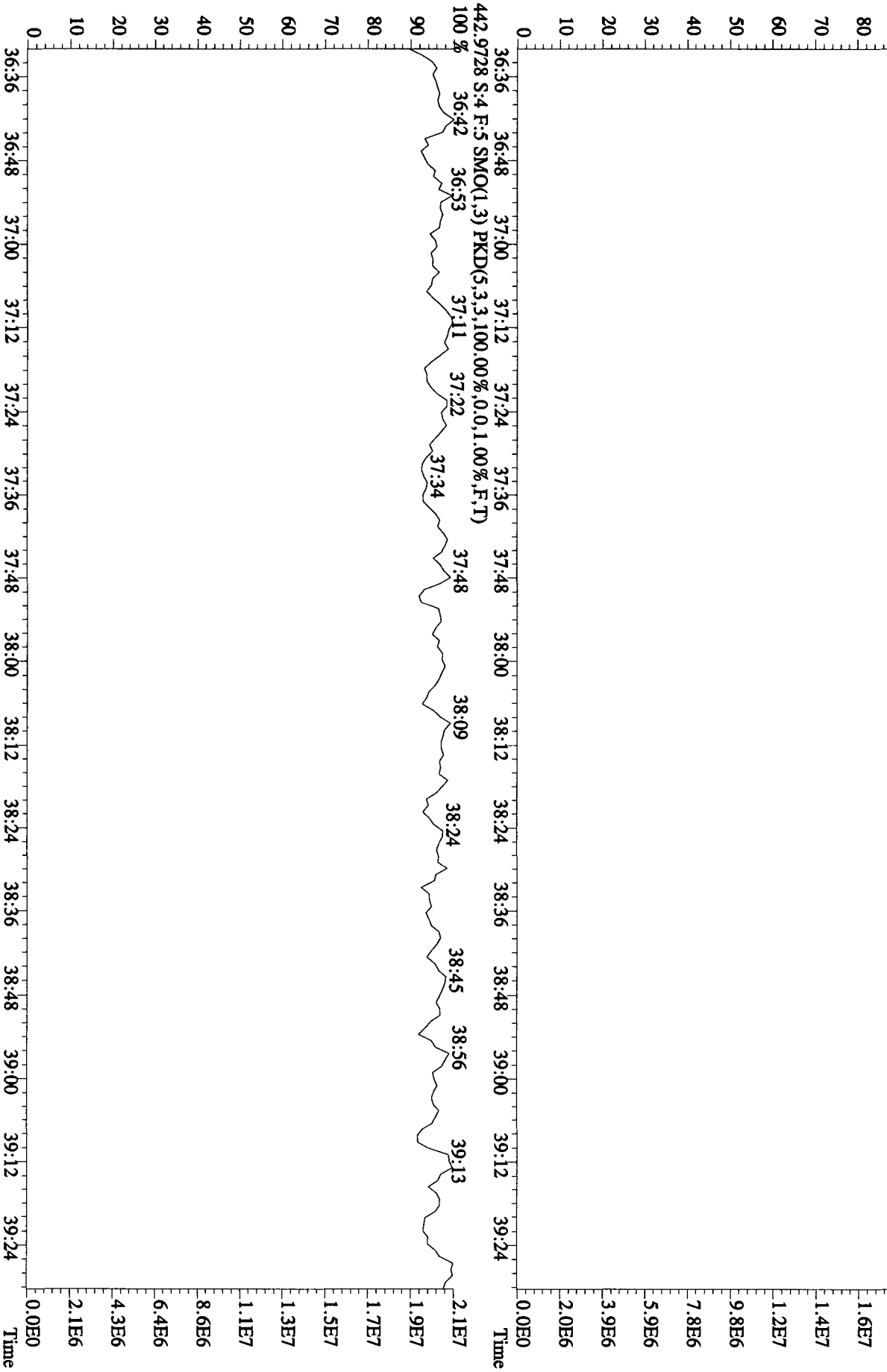


File:25AU10A1D5 #1-196 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE

Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES

454.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 %36:37 36:46 37:00 37:16 37:28 37:39

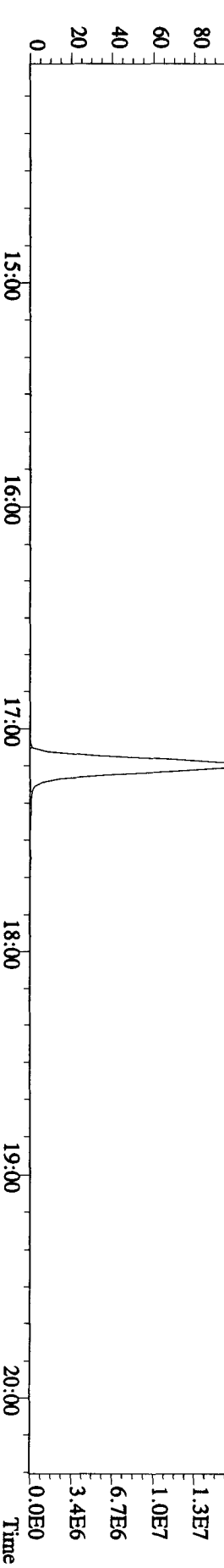
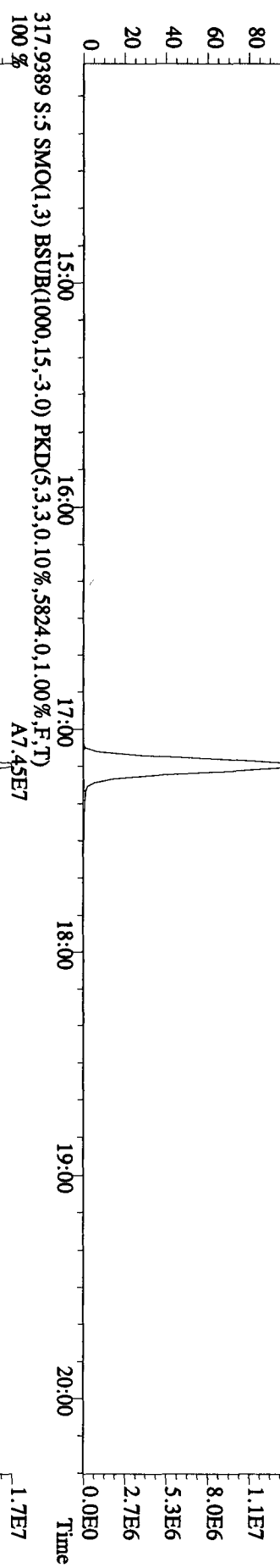
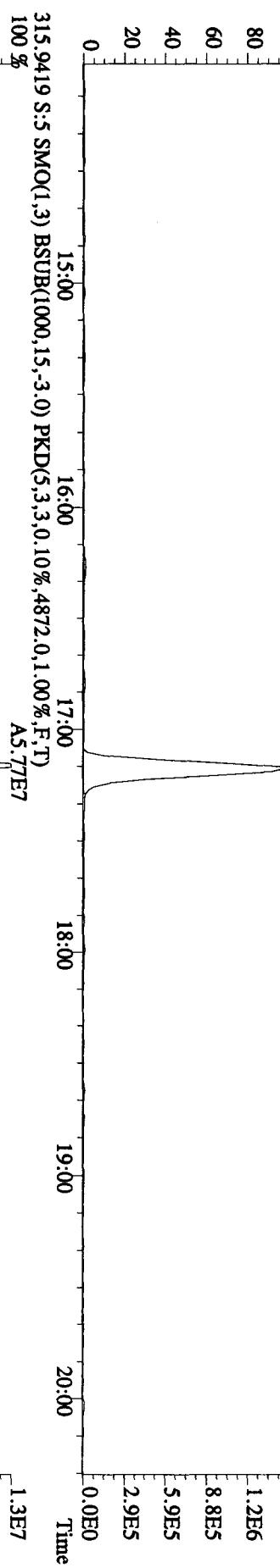
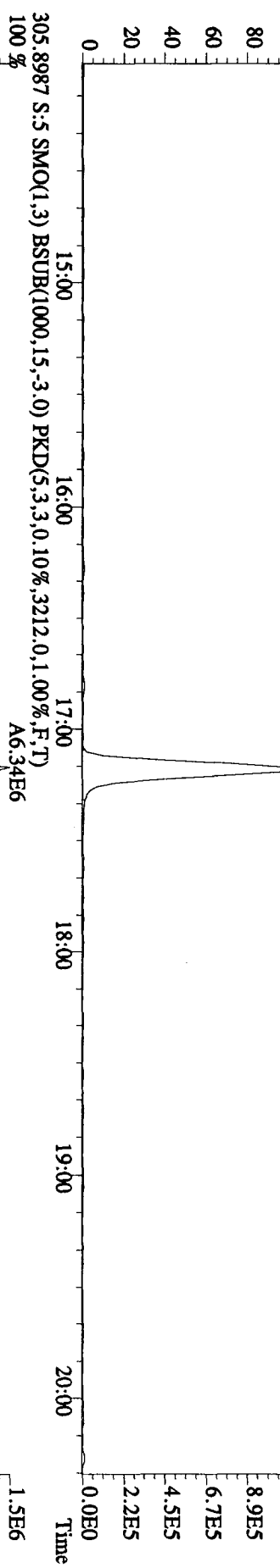


Run text: L518H-1-AC      Sample text: L518H-1-AC :G0H230000-312C  
 Run #9    Filename: 25AU10A1D5    S: 5    I: 1    Results: 25AU10A1D5TO9  
 Acquired: 26-AUG-10    00:40:40    Processed: 26-AUG-10    15:08:19  
 Run: 25AU10A1D5    Analyte: TO9    Cal: TO90727101D5  
 Factor 1: 1600.000    Factor 2: 20.000    Sample size: 0.500000Sample

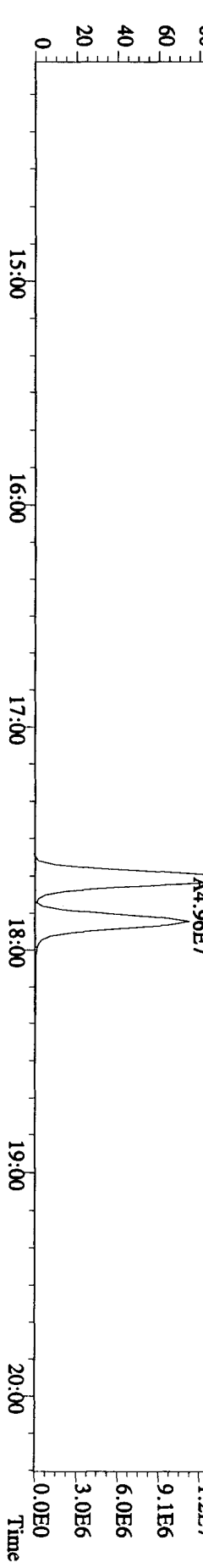
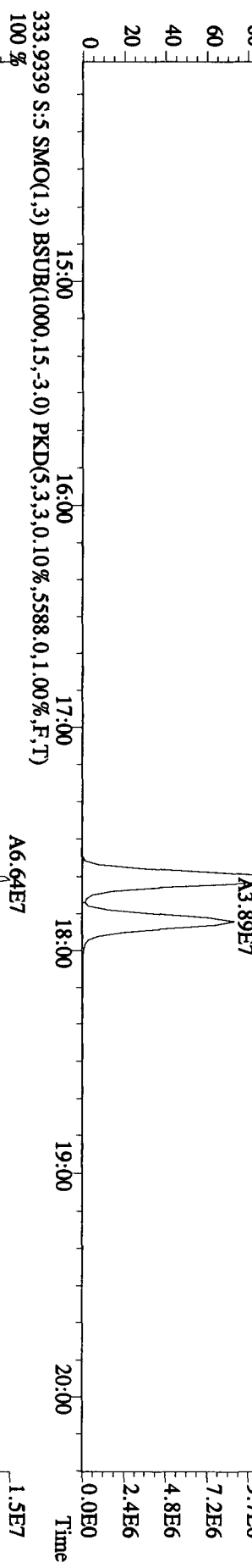
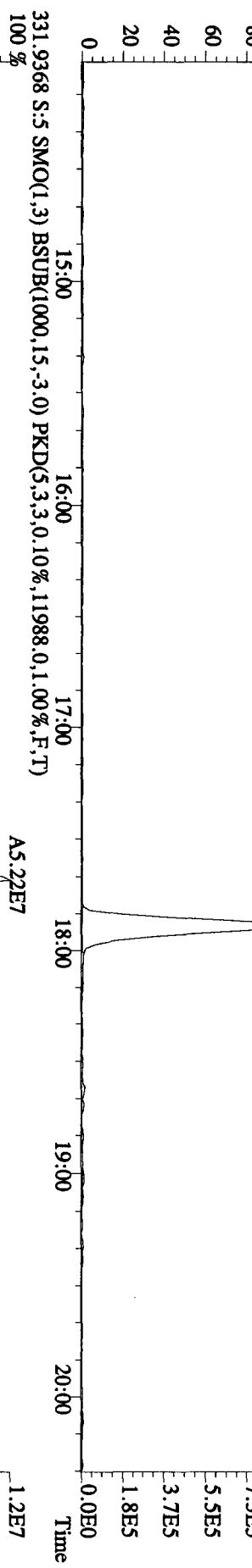
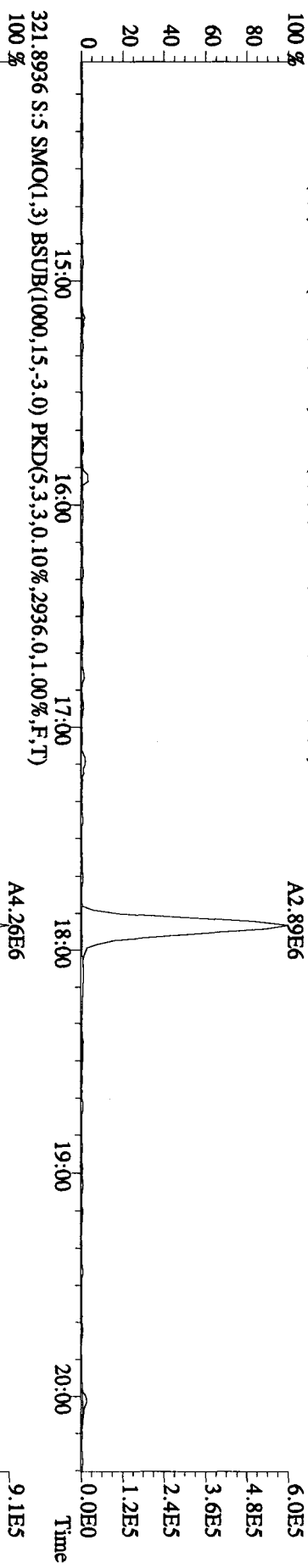
*AK 8/27/10*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	118574000	0.79 y	17:41	-	63.00	-	-	n
13C-2,3,7,8-TCDF	132201600	0.77 y	17:10	1.56	2855.70	3.02	71.4	n
2,3,7,8-TCDF	11451160	0.81 y	17:10	0.87	395.97	2.47	-	n
Total TCDF	11871673	0.94 n	14:40	0.87	410.51	2.47	-	n
13C-2,3,7,8-TCDD	88432500	0.78 y	17:52	0.94	3189.46	8.29	79.7	n
2,3,7,8-TCDD	7142740	0.68 y	17:53	0.96	337.50	3.46	-	n
Total TCDD	7230681	2.13 n	16:55	0.96	341.65	3.46	-	n
37Cl-2,3,7,8-TCDD	160335	1.00 y	17:53	1.22	5.96	2.19	0.4	n
13C-1,2,3,7,8-PeCDF	94676200	1.68 y	22:11	1.06	3007.52	2.66	75.2	n
1,2,3,7,8-PeCDF	49576100	1.69 y	22:12	1.08	1939.56	6.38	-	n
2,3,4,7,8-PeCDF	47963000	1.66 y	23:31	0.98	2067.21	7.03	-	n
Total F2 PeCDF	98508414	1.61 y	20:51	1.03	4046.52	6.69	-	n
Total F1 PeCDF	216196	0.53 n	15:16	1.03	8.87	3.04	-	n
13C-1,2,3,7,8-PeCDD	54251300	1.68 y	24:12	0.65	2832.11	3.41	70.8	n
1,2,3,7,8-PeCDD	26617000	1.64 y	24:13	0.92	2122.09	7.93	-	n
Total PeCDD	26753677	2.79 n	21:07	0.92	2132.99	7.93	-	n
13C-1,2,3,7,8,9-HxCDD	72002100	1.28 y	32:09	-	50.66	-	-	n
13C-1,2,3,4,7,8-HxCDF	69211500	0.53 y	30:22	0.99	3899.30	7.18	97.5	n
1,2,3,4,7,8-HxCDF	43294800	1.28 y	30:24	<del>1.15</del> 1.23	<del>2169.25</del> 2028.16	6.41	-	n
1,2,3,6,7,8-HxCDF	46955700	1.22 y	30:35	1.24	2183.48	5.95	-	n
2,3,4,6,7,8-HxCDF	36689500	1.25 y	31:28	1.22	1741.35	6.07	-	n
1,2,3,7,8,9-HxCDF	34322700	1.28 y	32:22	1.19	1673.92	6.24	-	n
Total HxCDF	161262700	1.28 y	30:24	1.20	7768.01	6.17	-	n
13C-1,2,3,6,7,8-HxCDD	50289800	1.31 y	31:47	0.77	3638.20	2.95	91.0	n
1,2,3,4,7,8-HxCDD	26283800	1.36 y	31:41	1.03	2031.97	7.15	-	n
1,2,3,6,7,8-HxCDD	27865100	1.23 y	31:48	1.11	2002.75	6.64	-	n
1,2,3,7,8,9-HxCDD	31459300	1.32 y	32:10	1.24	2014.08	5.92	-	n
Total HxCDD	85608200	1.36 y	31:41	1.13	6048.80	6.53	-	n
13C-1,2,3,4,6,7,8-HpCDF	54823700	0.42 y	33:58	0.98	3104.92	12.51	77.6	n
1,2,3,4,6,7,8-HpCDF	39529000	1.06 y	33:58	1.35	2136.89	5.42	-	n
1,2,3,4,7,8,9-HpCDF	31286100	1.04 y	35:12	1.19	1924.36	6.16	-	n
Total HpCDF	70815100	1.06 y	33:58	1.27	4061.25	5.77	-	n
13C-1,2,3,4,6,7,8-HpCDD	44943800	1.03 y	34:52	0.81	3098.91	3.64	77.5	n
1,2,3,4,6,7,8-HpCDD	23597100	1.08 y	34:53	1.03	2046.27	5.69	-	n
Total HpCDD	23736577	1.06 y	34:15	1.03	2058.36	5.69	-	n
13C-OCDD	58112300	0.88 y	37:31	0.62	5248.25	5.89	65.6	n
OCDF	43924600	0.89 y	37:38	1.44	4184.80	10.56	-	n
OCDD	34386100	0.88 y	37:31	1.09	4341.45	8.81	-	n

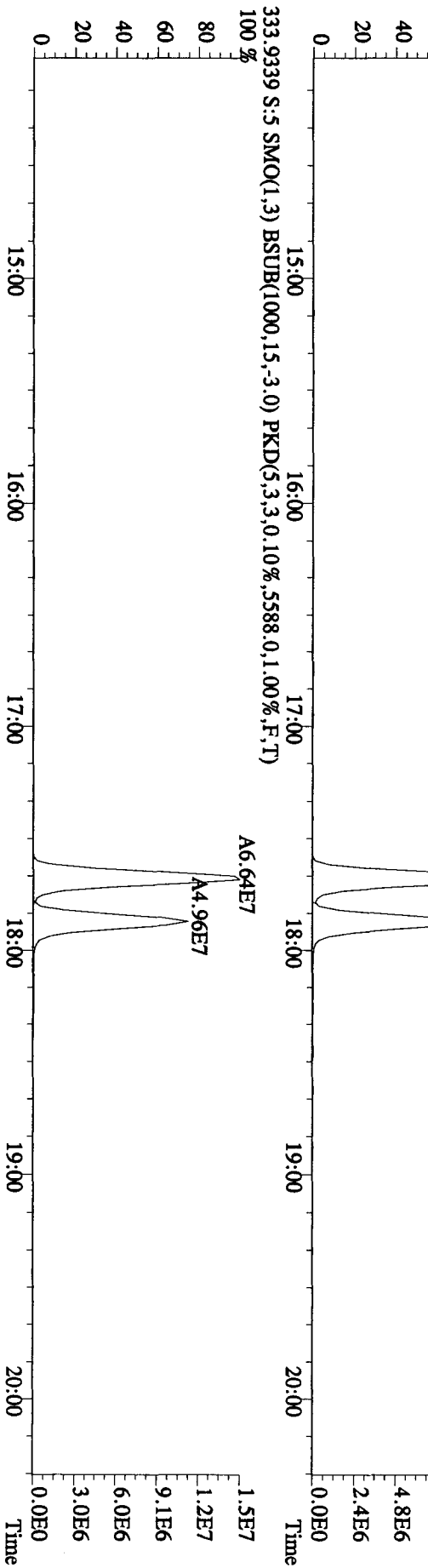
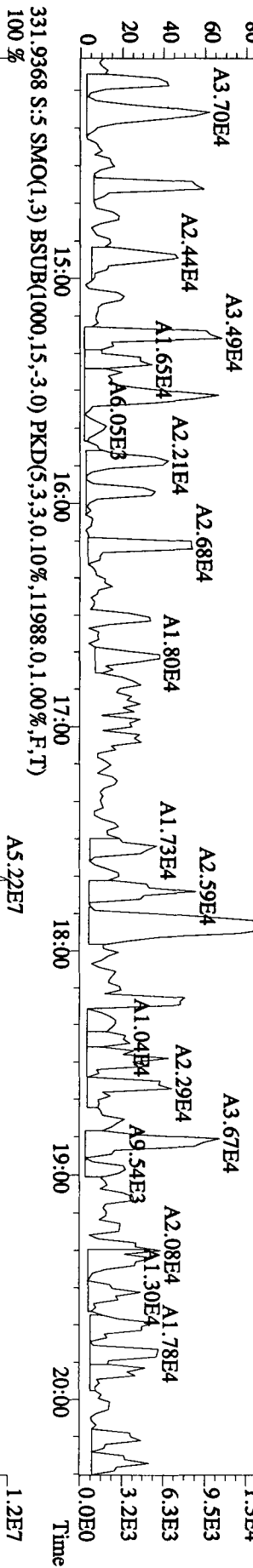
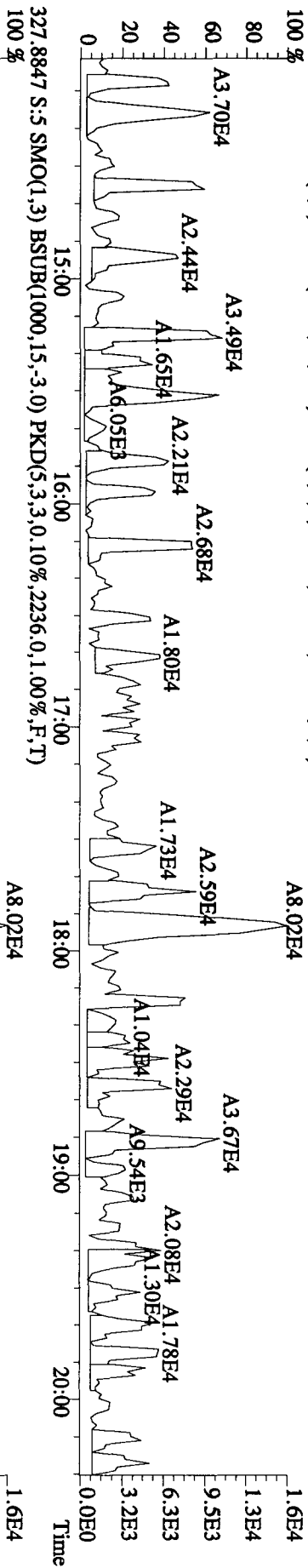
File:25AUI10A1D5 #1-372 Acq:26-AUG-2010 00:40:40 GC EI + Voltage SIR 70SE  
 Sample#5 Text:L518H-1-AC :G0H230000-312C Exp:DIOXINRES  
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2216.0,1.00%,F,T)  
 100 % A5.11E6



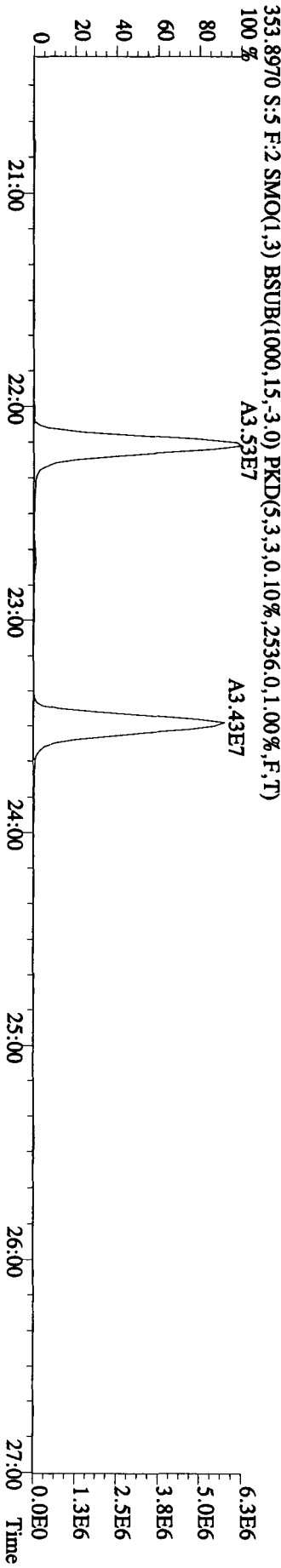
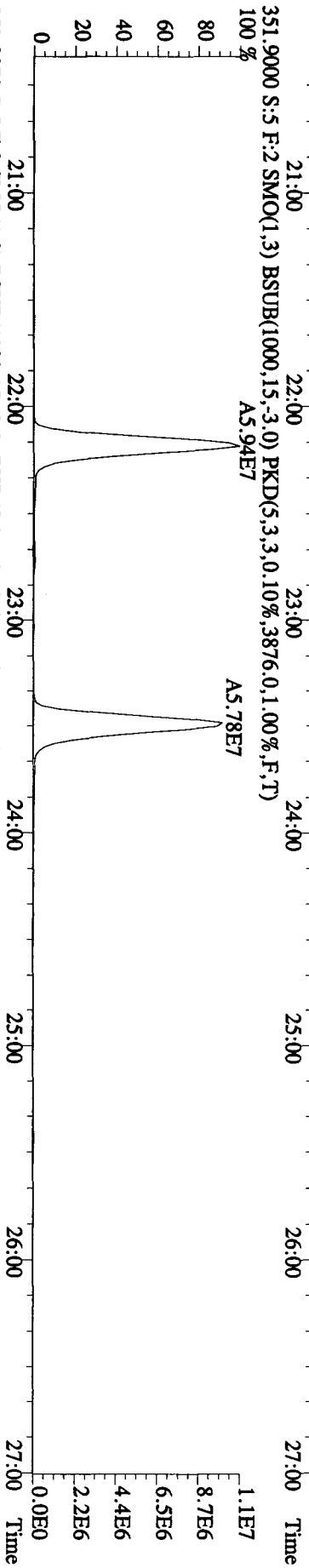
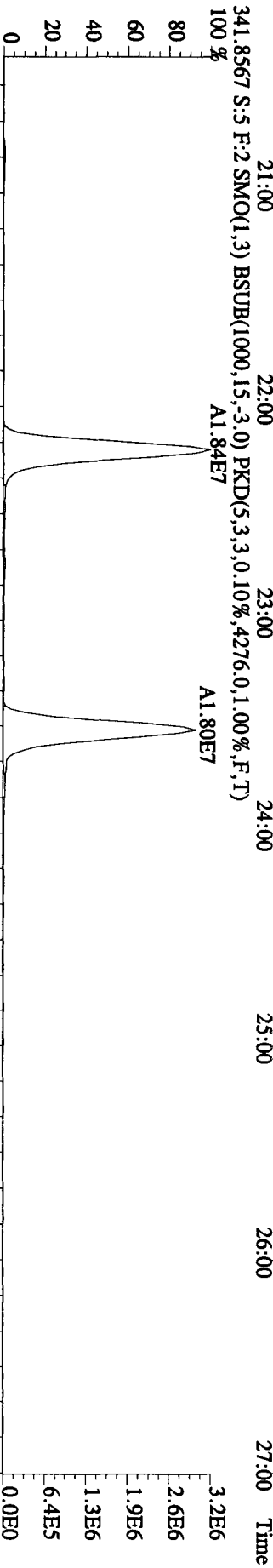
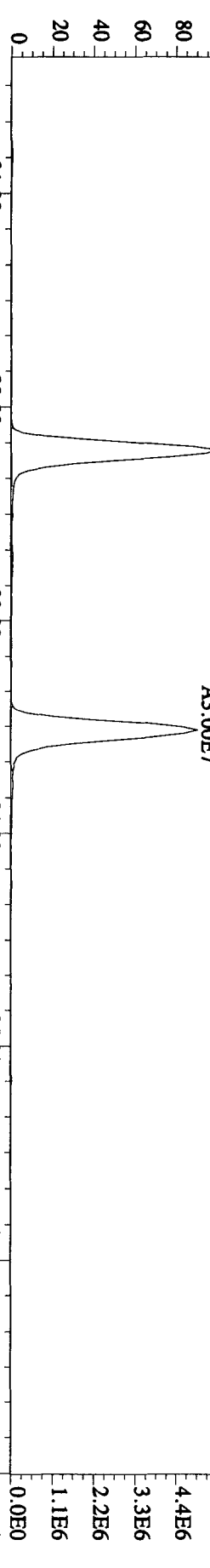
File:25AU10A1D5 #1-372 Acq:26-AUG-2010 00:40:40 GC EI + Voltage SIR 70SE  
 Sample#5 Text:1.518H-1-AC :G0H230000-312C Exp:DIOXINRES  
 319.8965 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.2632,0,1.00%,F,T)  
 100 %



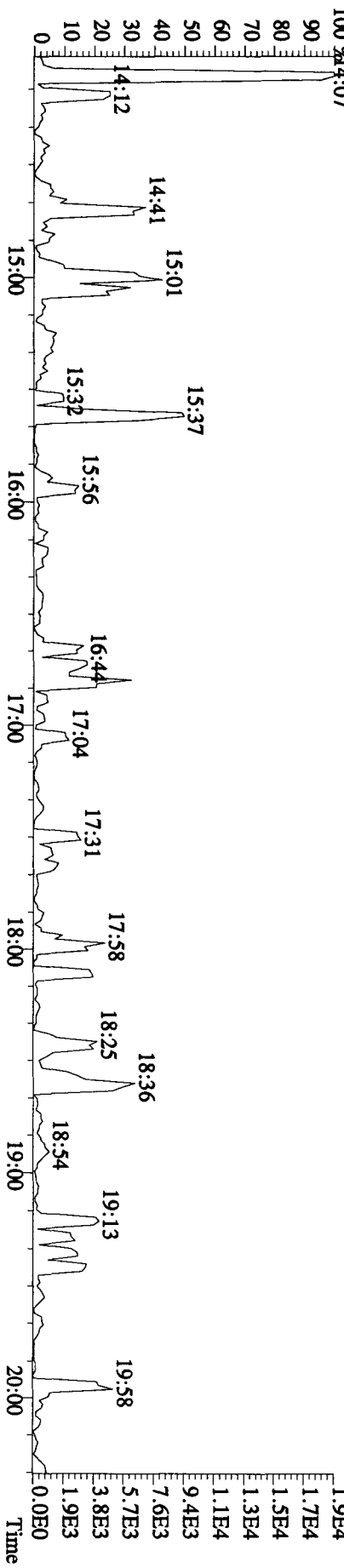
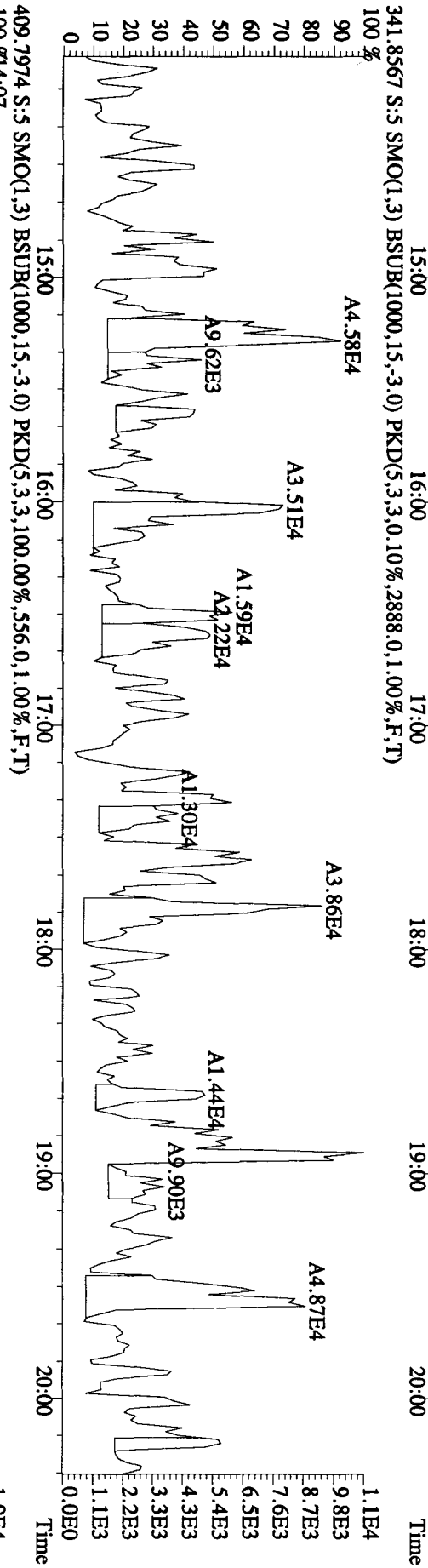
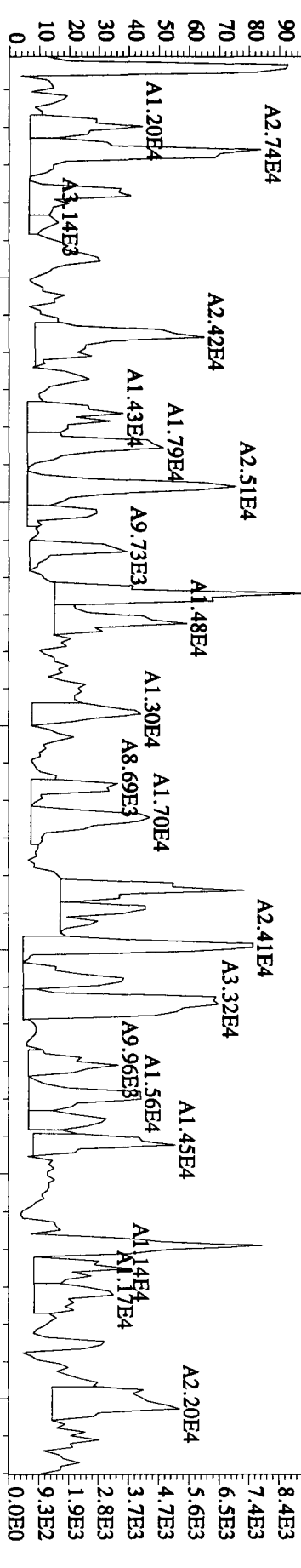
File:25AU10A1D5 #1-372 Acq:26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:L518H-1-AC :G0H230000-312C Exp:DIOXINRES  
 327.8847 S.S SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2236.0,1.00%,F,T)  
 100 %



File:25AU10A1D5 #1-414 Acq:26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:1.518H-1-AC :G0H230000-312C Exp:DIOXINRES  
 339.8597 S.:5 F.:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.5552,0.1,0.0%,F,T)  
 100 %



File:25AUI10A1D5 #1-372 Acq:26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:1.518H-1-AC :G0H230000-312C Exp:DIOXINRES  
 339.8597 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1584,0,1,00%,F,T)  
 100%



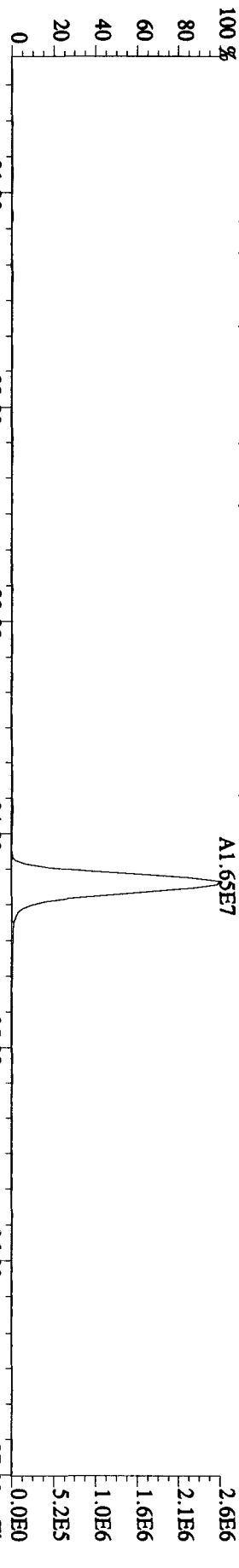
File:25AU10A1D5 #1-414 Acq:26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE

Sample#5 Text:L518H-1-AC :G0H230000-312C

Exp:DIOXINRES

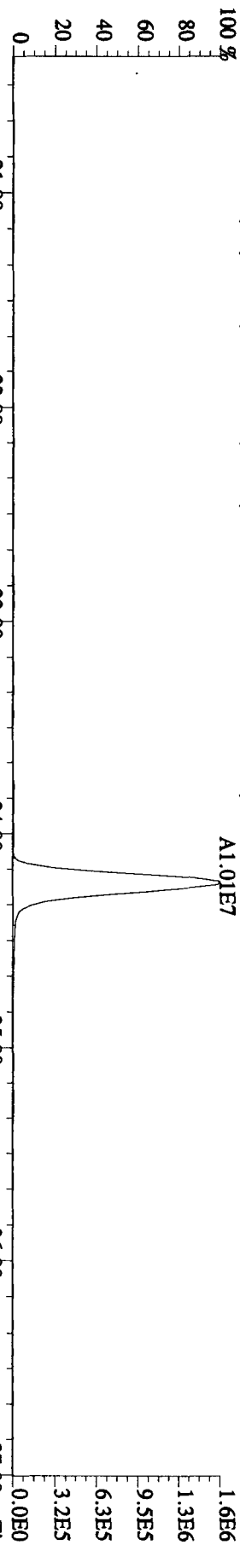
355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.3668,0,1,00%,F,T)

100%



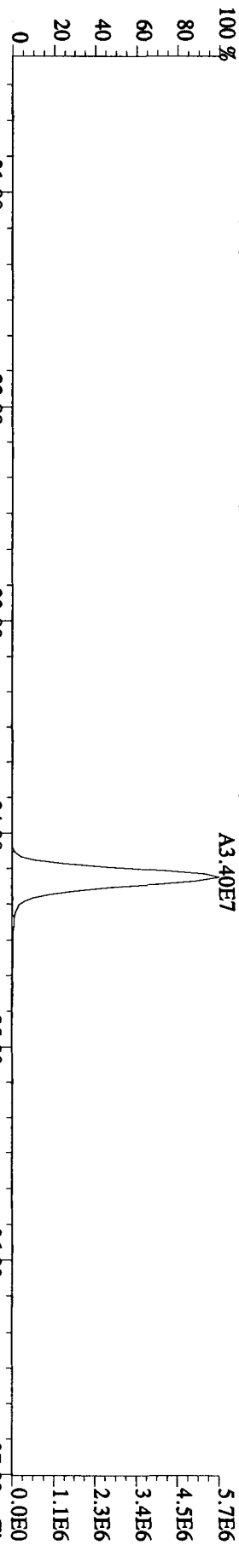
357.8516 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1892,0,1,00%,F,T)

100%



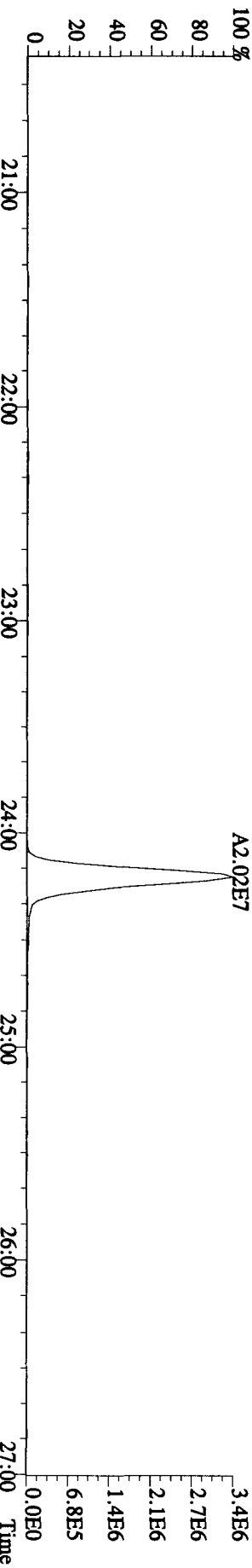
367.8949 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3792,0,1,00%,F,T)

100%



369.8919 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1208,0,1,00%,F,T)

100%

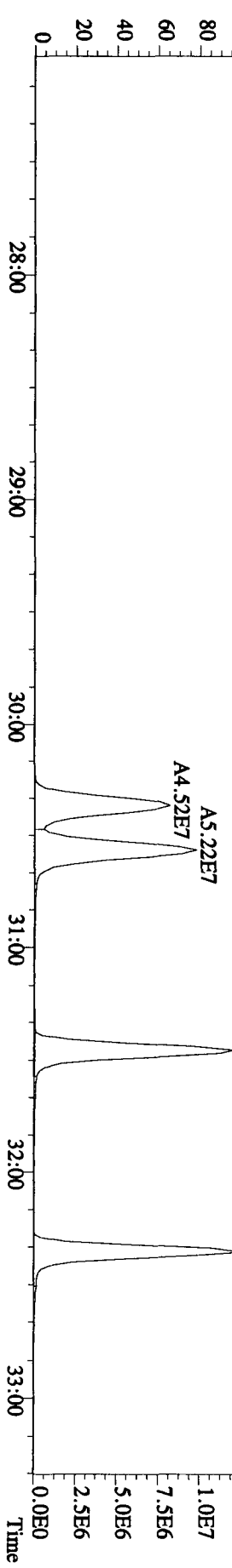
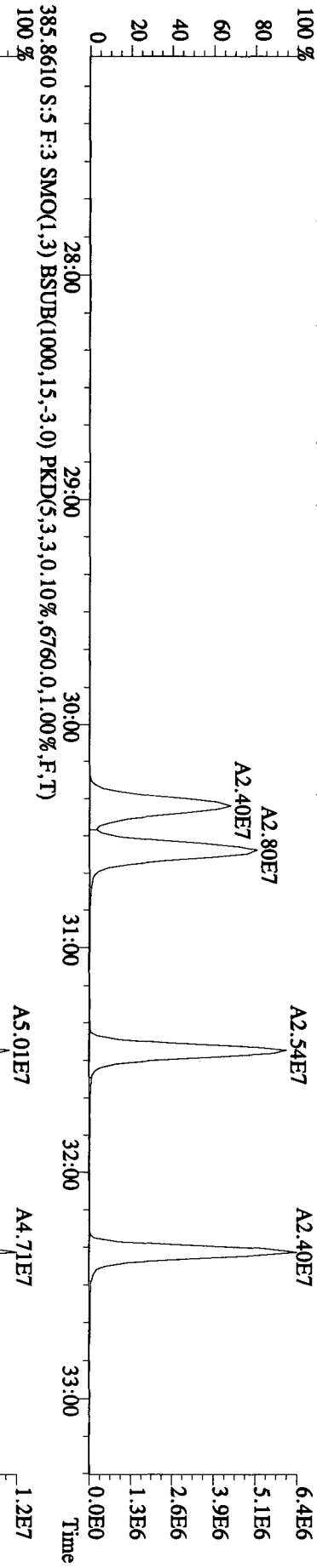
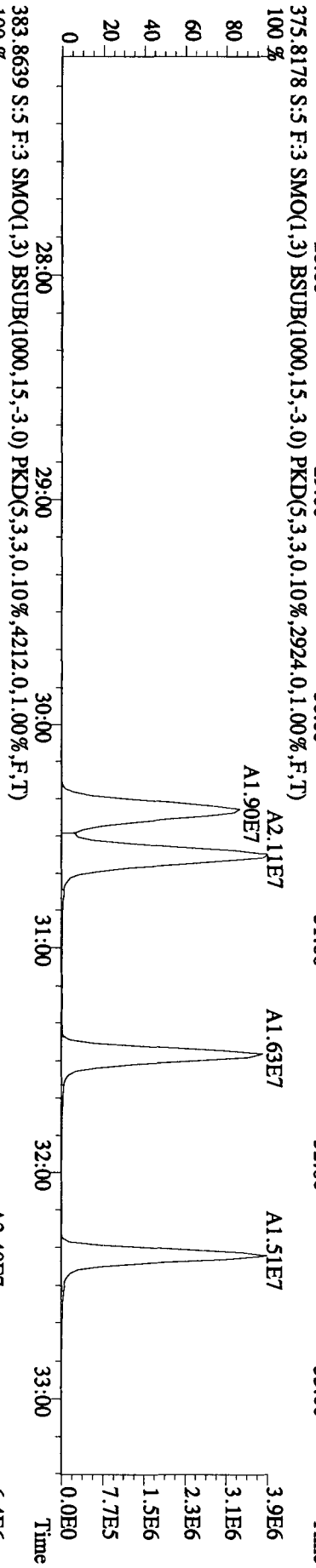
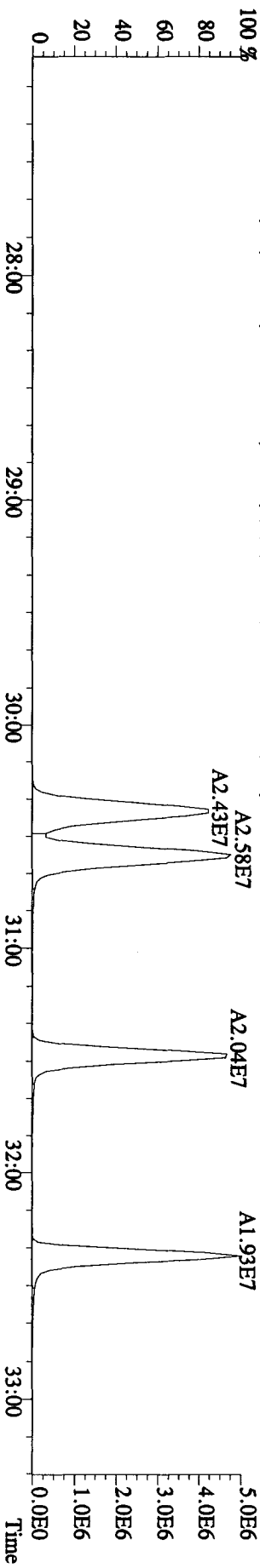




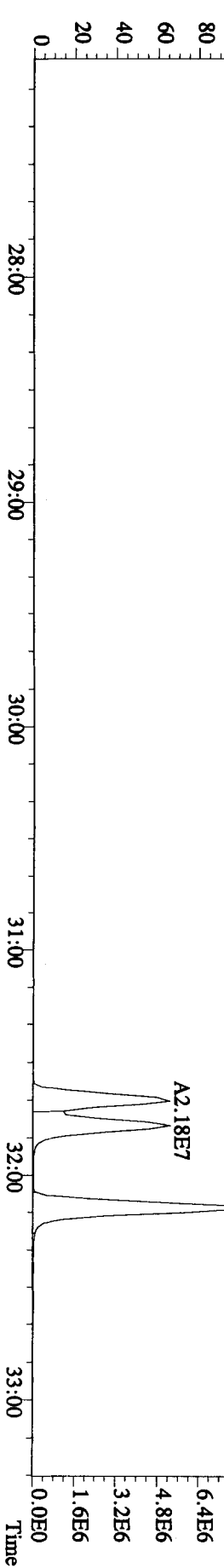
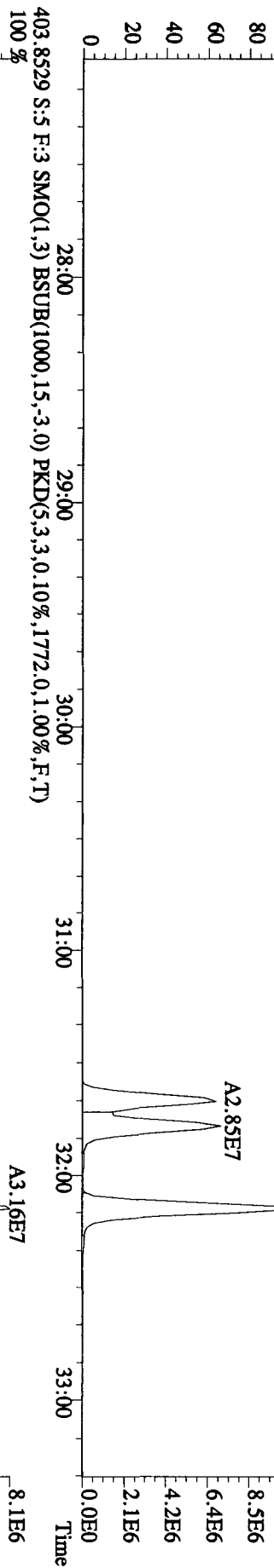
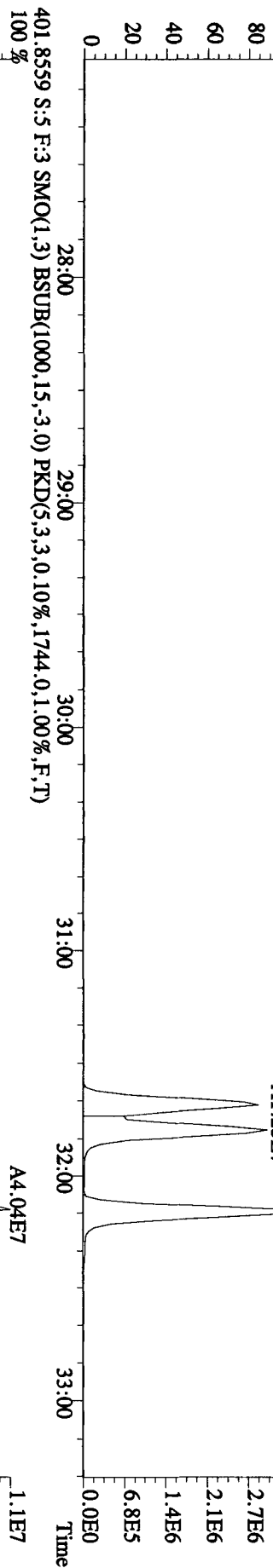
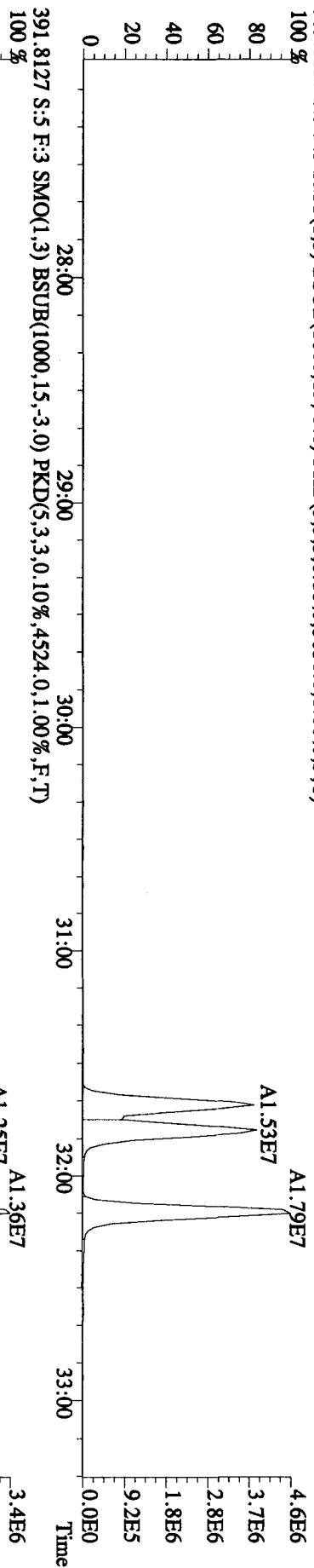
File:25AU10A1D5 #1-406 Acq:26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE

Sample#5 Text:L518H-1-AC :G0H230000-312C Exp:DIOXINRES

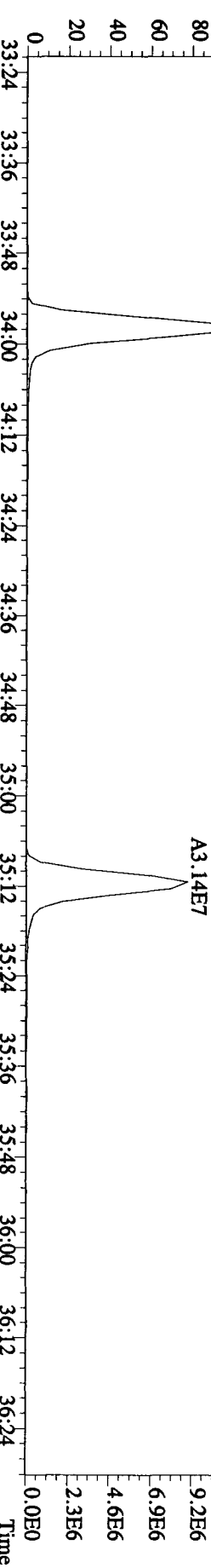
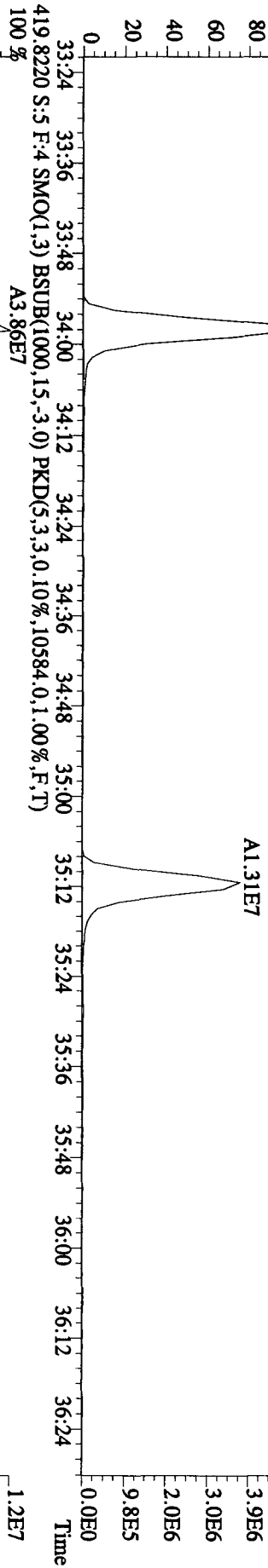
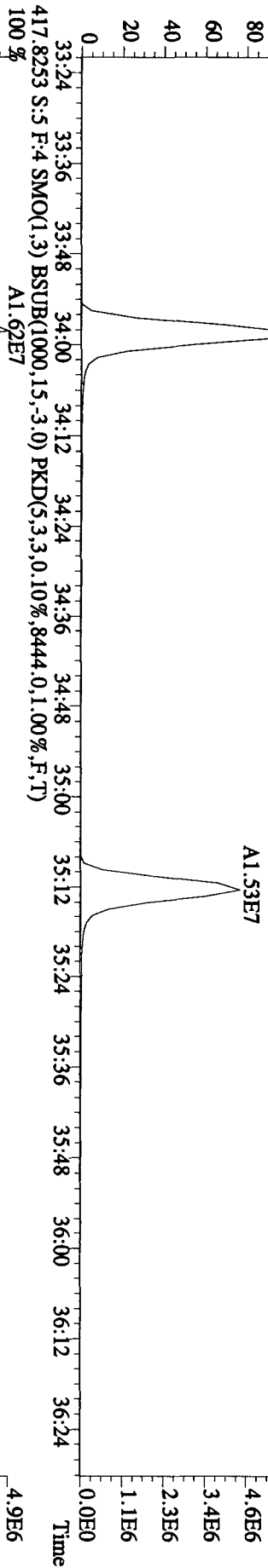
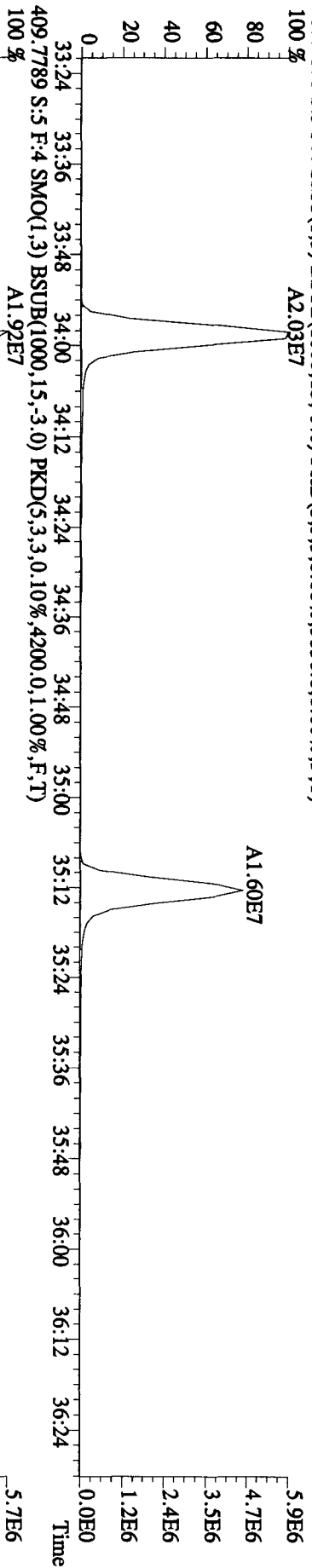
373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4828,0,1,00%,F,T)



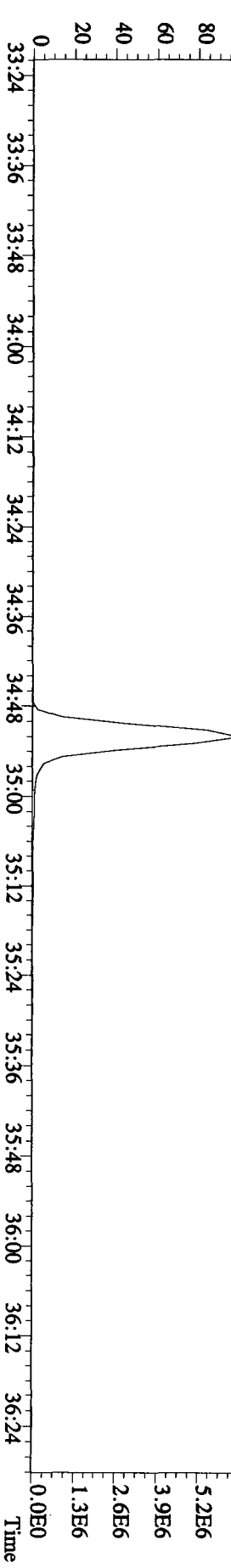
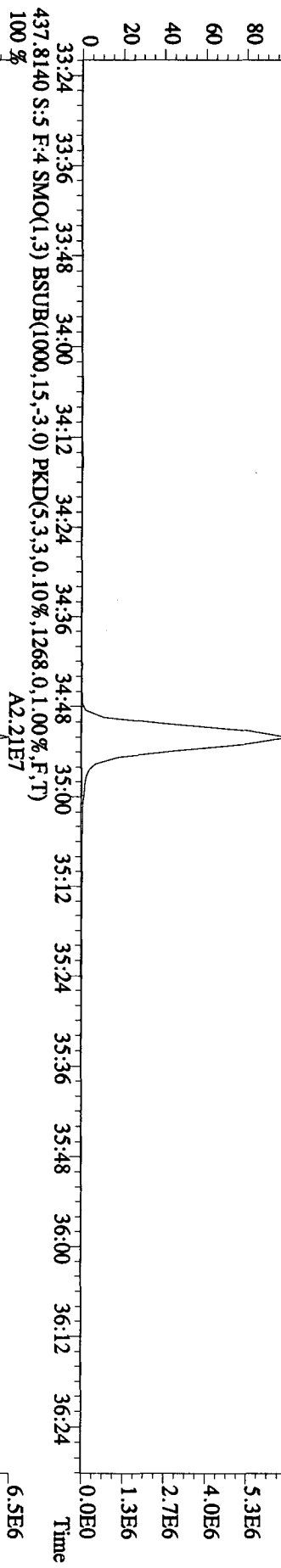
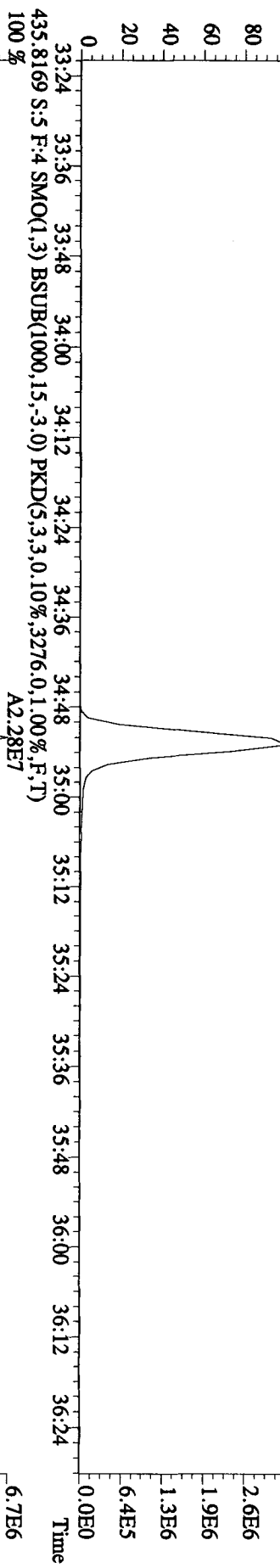
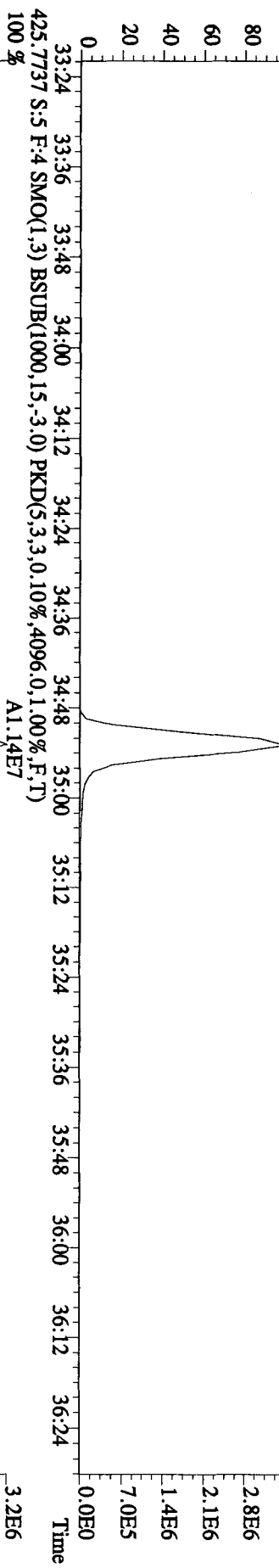
File: 25AU10A1D5 #1-406 Acq: 26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE  
 Sample# 5 Text: L518H-1-AC :G0H230000-312C Exp: DIOXINRES  
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3056,0,1,00%,F,T)  
 100%



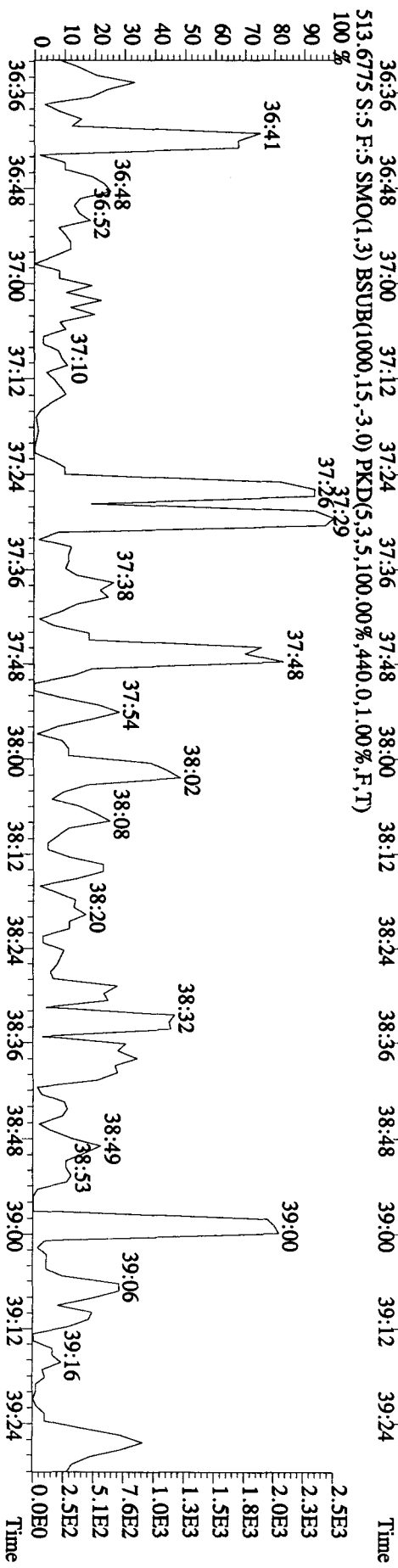
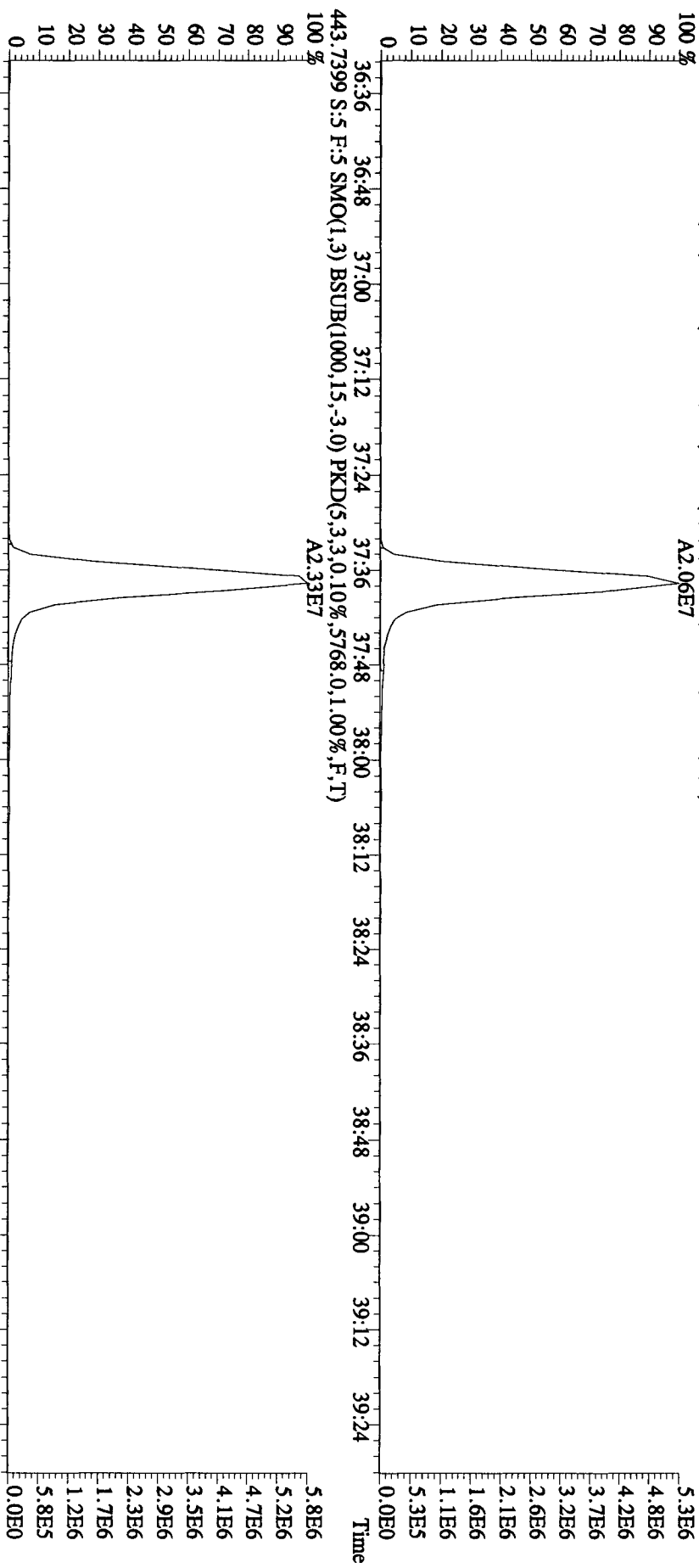
407.7818 S.S.F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5856,0,1,100%,F,T)



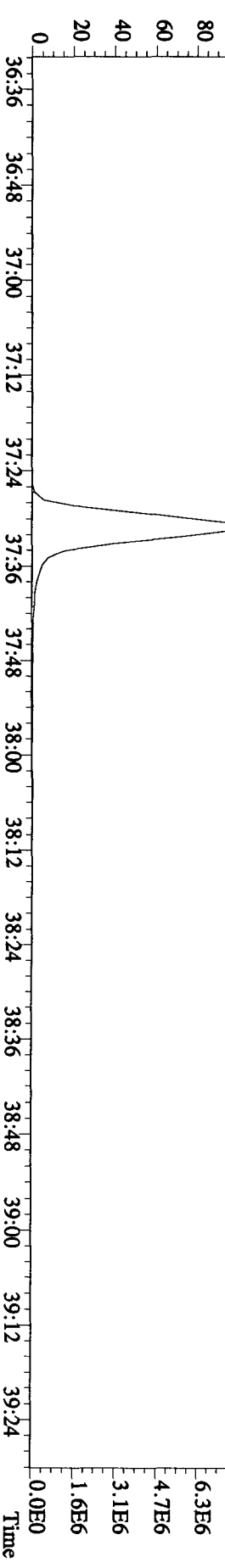
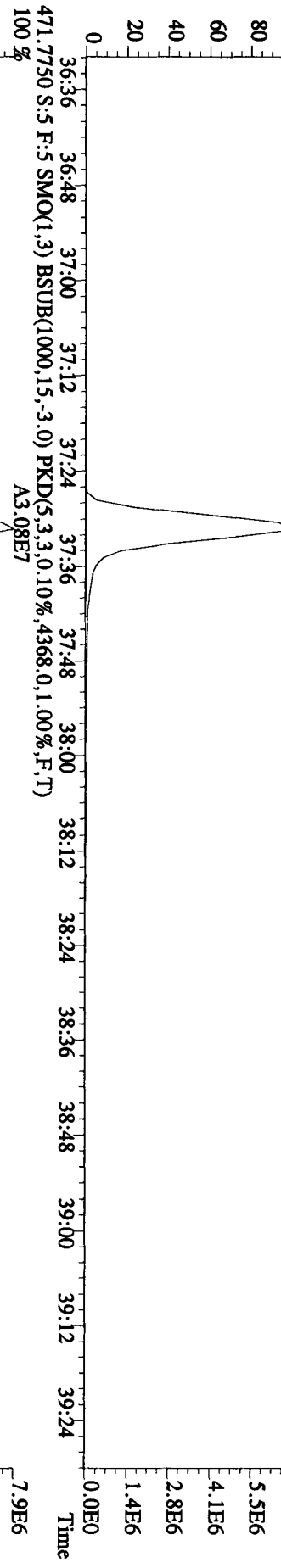
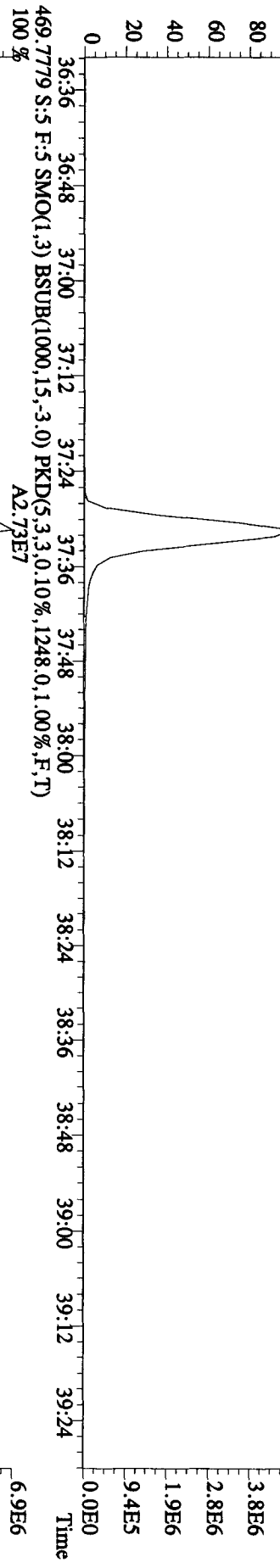
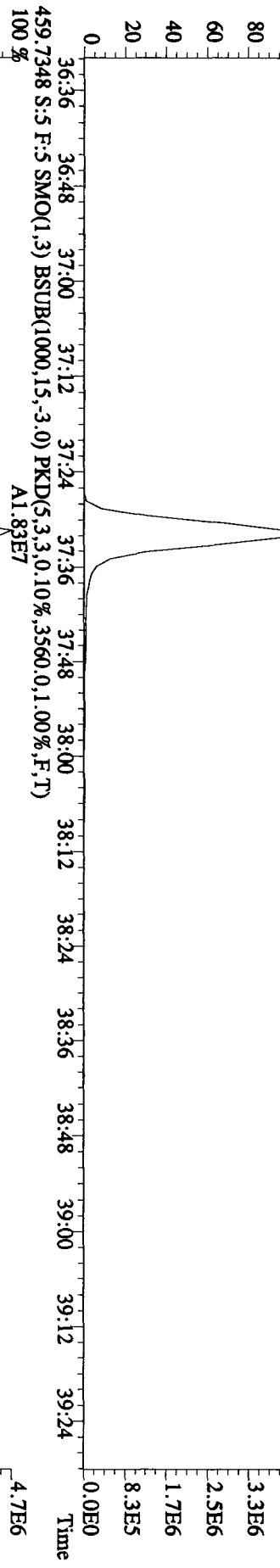
File:25AU10A1D5 #1-214 Acq:26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:L518H-1-AC :GOH230000-312C Exp:DIOXINRES  
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.00%,F,T)  
 100% A1.22E7



File: 25AU10A1IDS #1-196 Acq: 26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE  
 Sample#5 Text: L518H-1-AC :G0H230000-312C Exp: DIOXINRES  
 441.7428 S.S.F.: 5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3620,0,1,00%,F,T)  
 100% A2.06E7



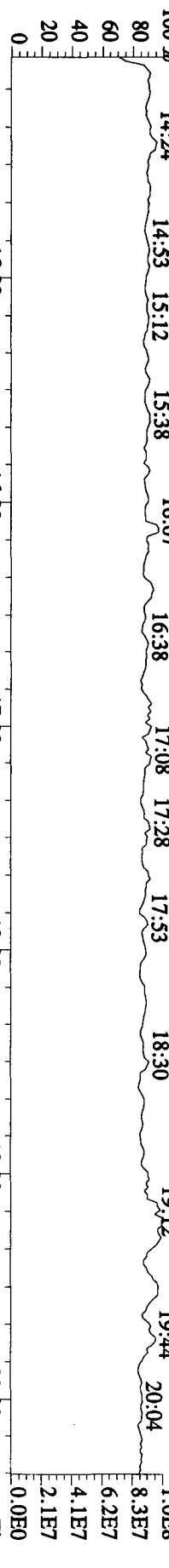
Sample#5 Text:L518H-1-AC :G0H230000-312C Exp:DIOXINRES  
457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2348,0.1,00%,F,T)  
100% A1.61E7



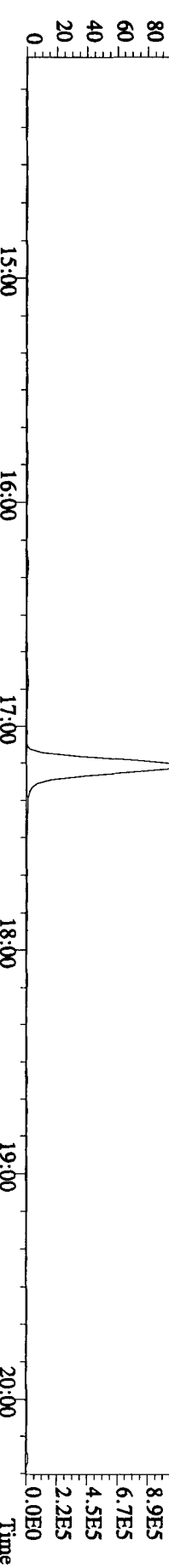
File:25AU10A1D5 #1-372 Acq:26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE

Sample#5 Text:1.518H-1-AC :G0H230000-312C Exp:DIOXINRES

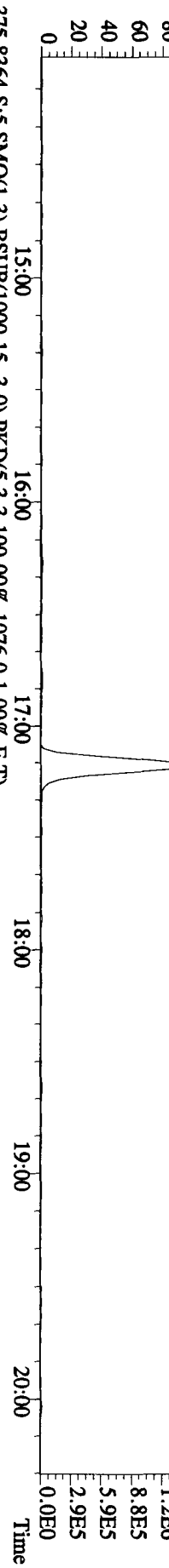
292.9825 S:5 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



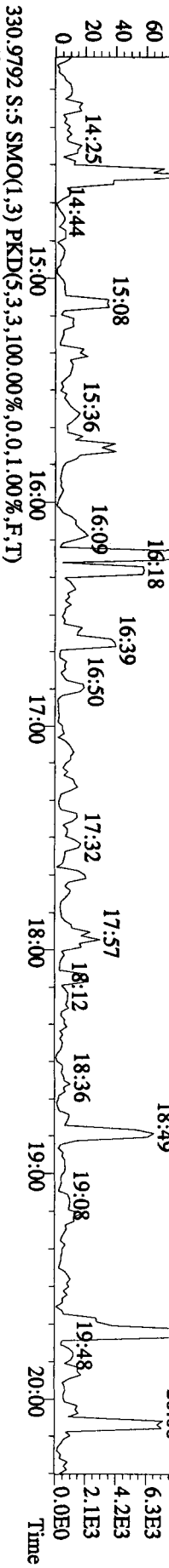
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2216.0,1.00%,F,T)  
A5.11E6



305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3212.0,1.00%,F,T)  
A6.34E6



375.8364 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1076.0,1.00%,F,T)



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

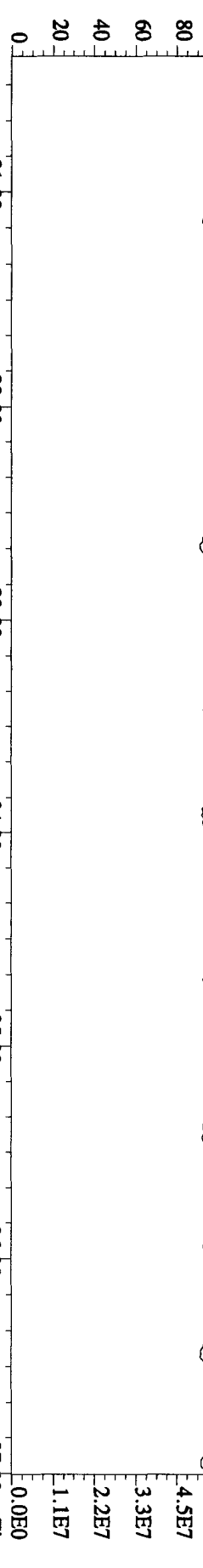


File:25AU10A1D5 #1-414 Acq:26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE

Sample#5 Text:L518H-1-AC :G0H230000-312C Exp:DIOXINRES

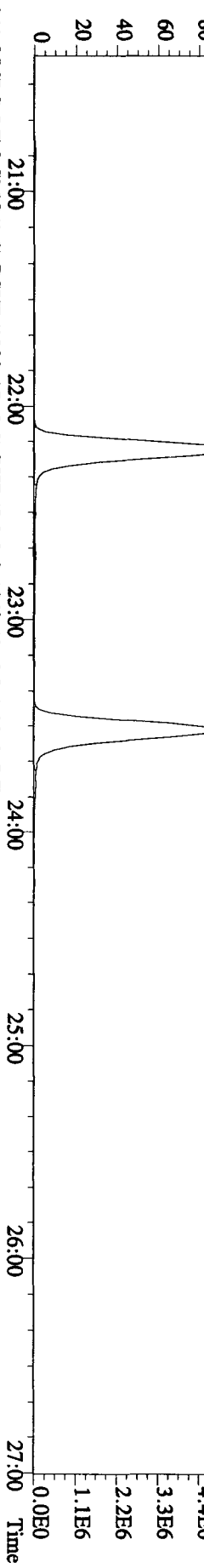
342.9792 S:5 F:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

100% 20:39 21:13 21:42 22:18 22:59 23:28 23:49 24:18 24:53 25:31 26:21 26:46



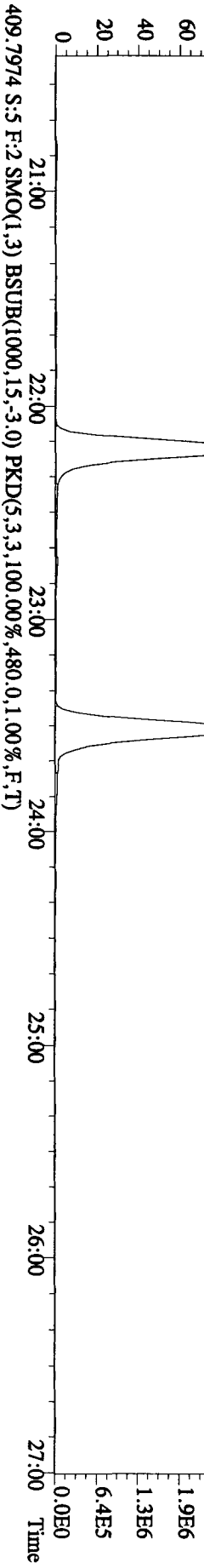
339.8597 S:5 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,5552.0,1.00%,F,T)

100% A3.12E7 A3.00E7



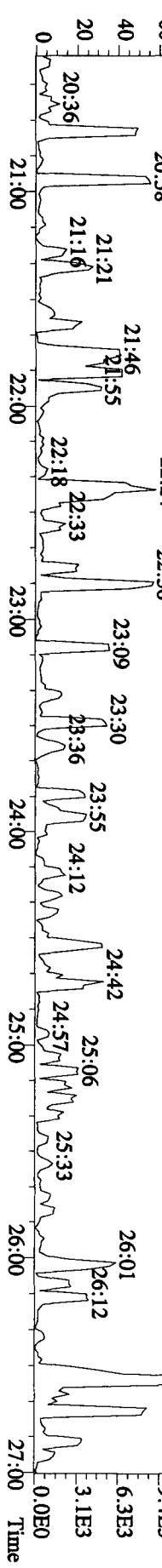
341.8567 S:5 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,4276.0,1.00%,F,T)

100% A1.84E7 A1.80E7



409.7974 S:5 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,480.0,1.00%,F,T)

100%



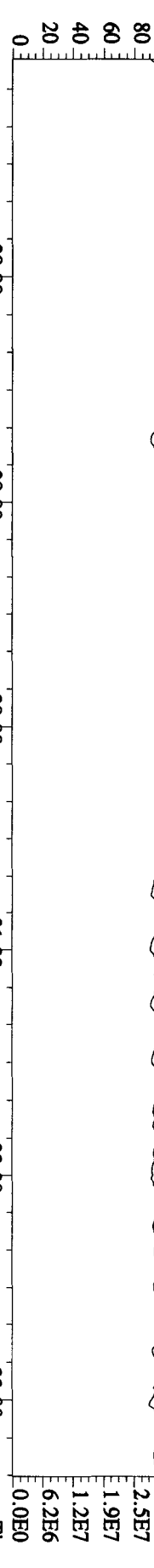


File:25AU10A1D5 #1.406 Acq:26 AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE

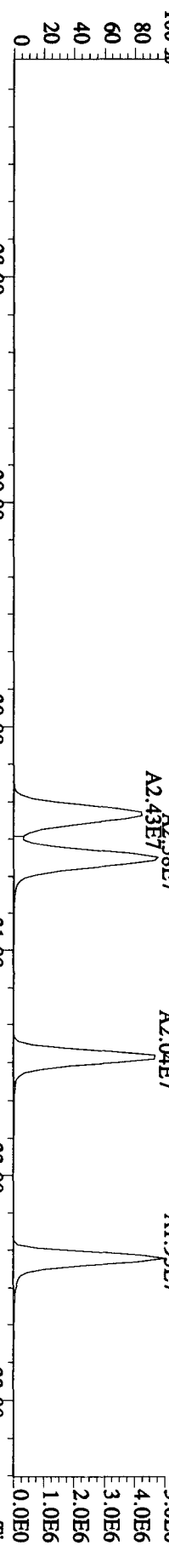
Sample#5 Text:1518H-1-AC :G0H230000-312C Exp:DIOXINRES

392.9760 S.S.F:3 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

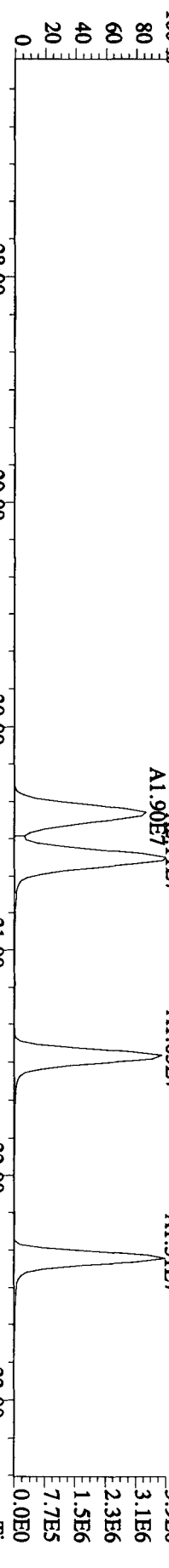
100% 27:14 27:38 28:16 28:52 29:17 29:40 30:01 30:24 30:48 31:10 31:37 31:56 32:18 32:39 33:10



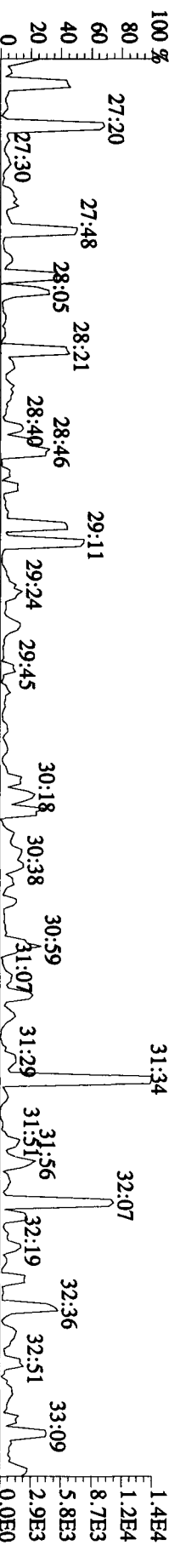
373.8208 S.S.F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,4828.0,1.00%,F,T)



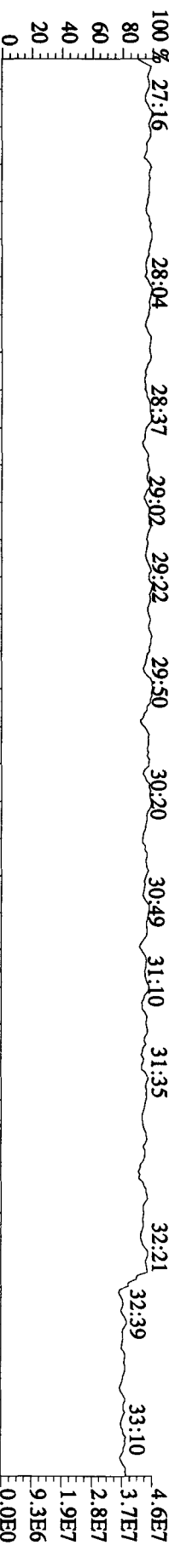
375.8178 S.S.F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,2924.0,1.00%,F,T)

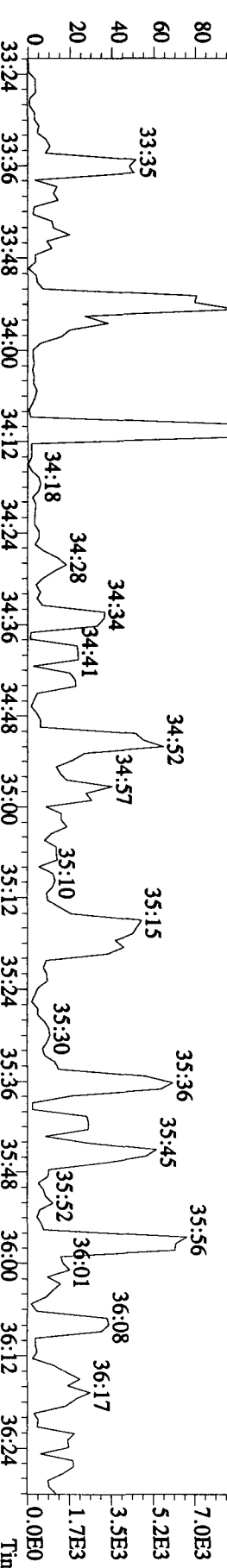
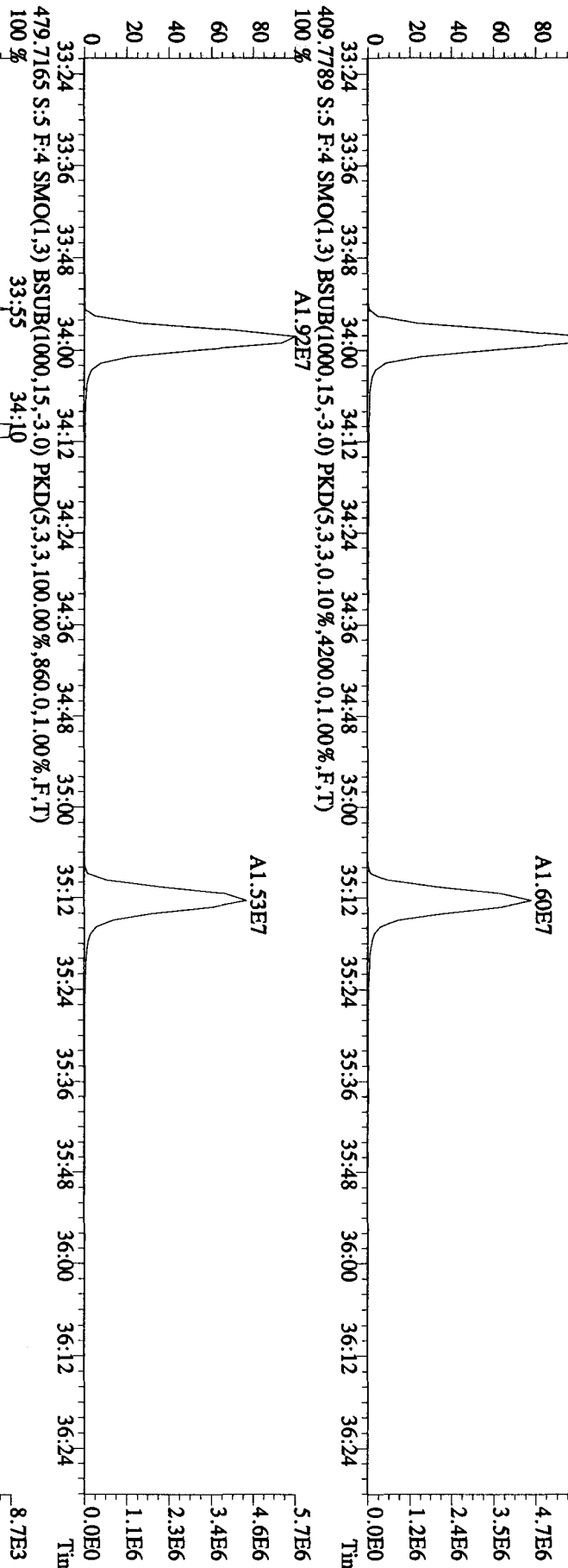
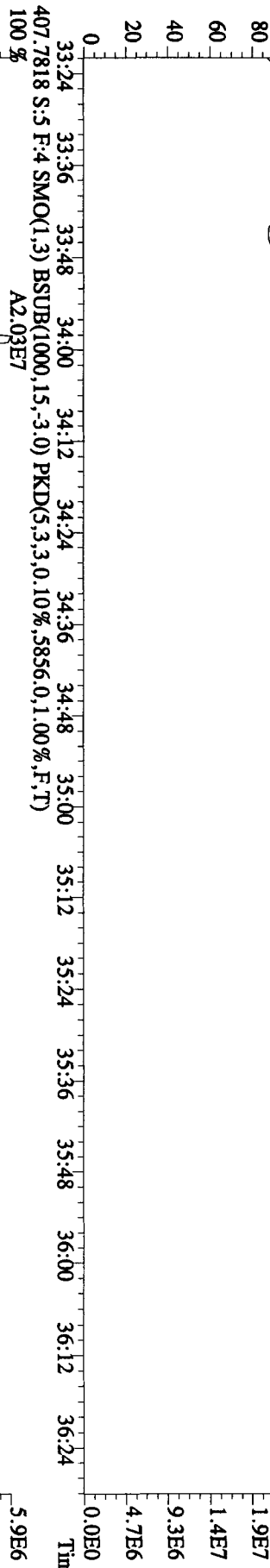


445.7555 S.S.F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,812.0,1.00%,F,T)



380.9760 S.S.F:3 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



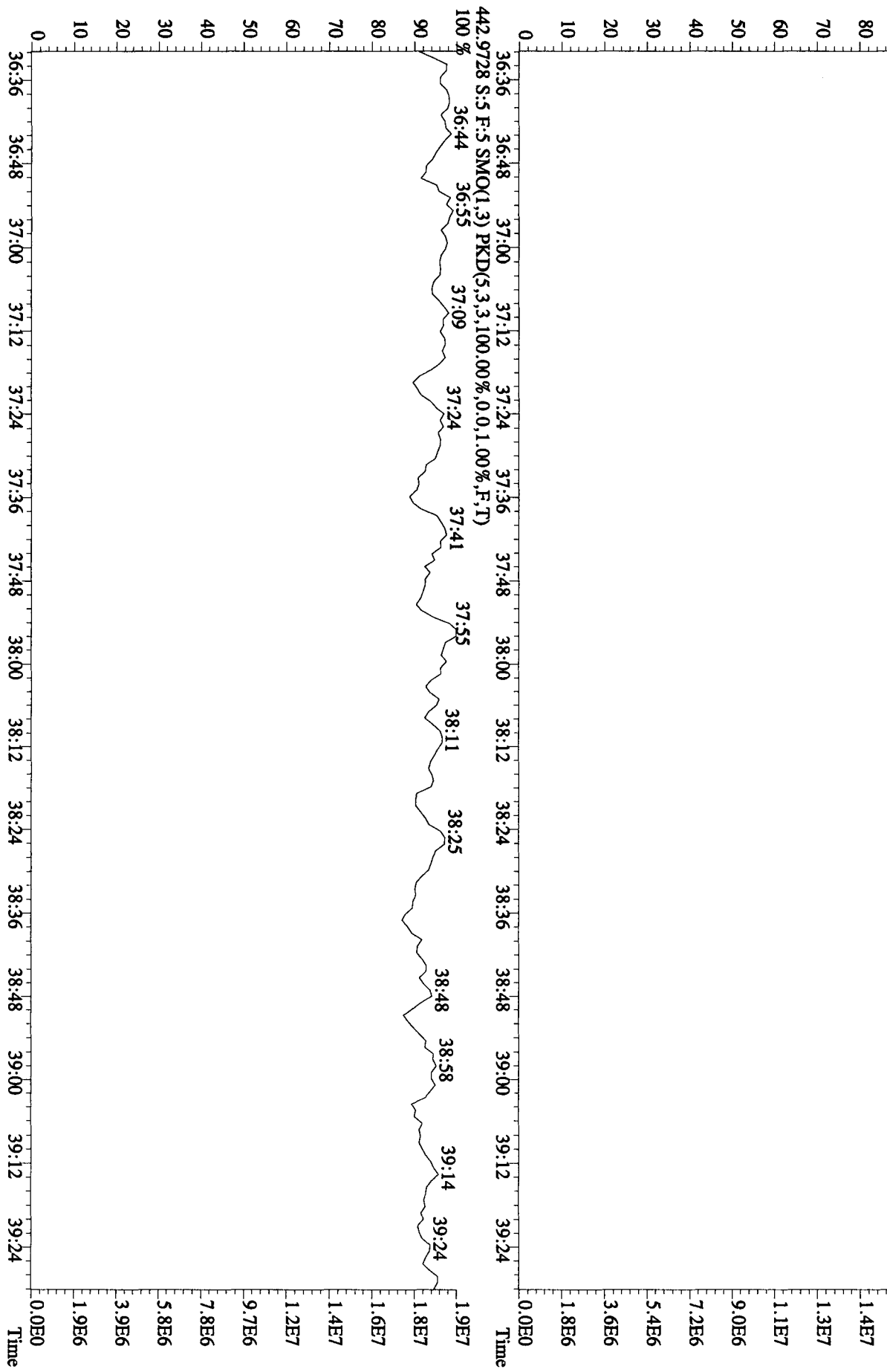


File:25AU10A1ID5 #1-196 Acq:26-AUG-2010 00:40:40 GC EI+ Voltage SIR 70SE

Sample#5 Text:L518H-1-AC :G0H230000-312C Exp:DIOXINRES

454.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

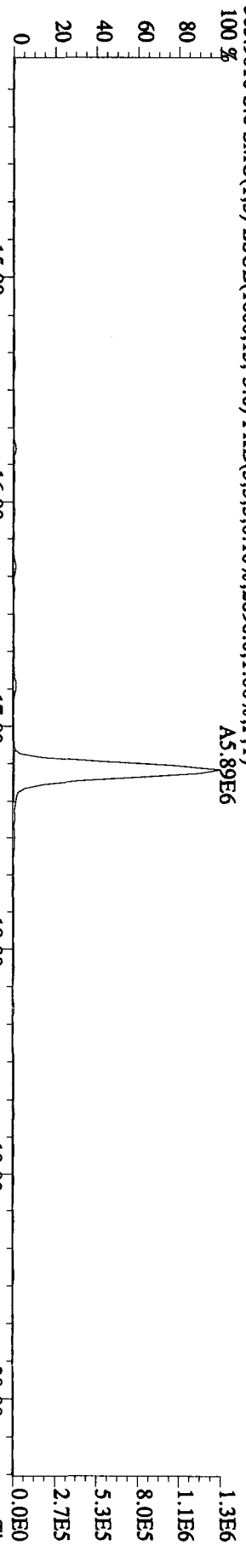
100 % 36:37 36:53 37:02 37:24



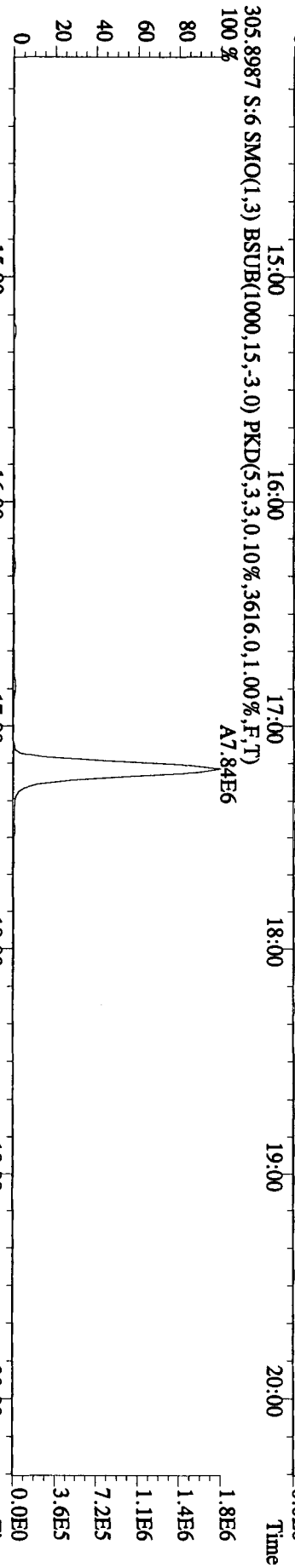
Run text: L518H-1-AD      Sample text: L518H-1-AD :G0H230000-312L  
 Run #10 Filename: 25AU10A1D5 S: 6 I: 1 Results: 25AU10A1D5TO9  
 Acquired: 26-AUG-10 01:24:36 Processed: 26-AUG-10 15:08:21  
 Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	115351300	0.79 y	17:41	-	61.29	-	-	n
13C-2,3,7,8-TCDF	143302500	0.78 y	17:11	1.56	3181.98	1.83	79.5	n
2,3,7,8-TCDF	13728620	0.75 y	17:12	0.87	437.95	2.64	-	n
Total TCDF	14105843	1.55 n	15:17	0.87	449.99	2.64	-	n
13C-2,3,7,8-TCDD	94759300	0.80 y	17:53	0.94	3513.13	6.64	87.8	n
2,3,7,8-TCDD	8128590	0.78 y	17:54	0.96	358.43	3.37	-	n
Total TCDD	8254917	0.75 y	16:19	0.96	364.00	3.37	-	n
37Cl-2,3,7,8-TCDD	138179	1.00 y	17:54	1.22	4.80	1.56	0.3	n
13C-1,2,3,7,8-PeCDF	103942600	1.63 y	22:11	1.06	3394.13	4.01	84.9	n
1,2,3,7,8-PeCDF	58100700	1.66 y	22:13	1.08	2070.43	4.60	-	n
2,3,4,7,8-PeCDF	52811500	1.63 y	23:31	0.98	2073.26	5.06	-	n
Total F2 PeCDF	112683833	1.91 n	20:52	1.03	4209.87	4.82	-	n
Total F1 PeCDF	299623	0.50 n	15:19	1.03	11.19	2.35	-	n
13C-1,2,3,7,8-PeCDD	58078900	1.70 y	24:13	0.65	3116.63	2.63	77.9	n
1,2,3,7,8-PeCDD	29805600	1.68 y	24:15	0.92	2219.71	8.17	-	n
Total PeCDD	29976935	1.31 n	22:34	0.92	2232.47	8.17	-	n
13C-1,2,3,7,8,9-HxCDD	69516900	1.24 y	32:09	-	48.91	-	-	n
13C-1,2,3,4,7,8-HxCDF	72088700	0.50 y	30:22	0.99	4206.59	10.69	105.2	n
1,2,3,4,7,8-HxCDF	48419400	1.29 y	30:24	<del>1.15</del> 1.23	<del>3329.19</del> 2177.70	7.58	-	n
1,2,3,6,7,8-HxCDF	50727800	1.22 y	30:35	1.24	2264.74	7.03	-	n
2,3,4,6,7,8-HxCDF	39336000	1.29 y	31:28	1.22	1792.44	7.18	-	n
1,2,3,7,8,9-HxCDF	36008900	1.31 y	32:22	1.19	1686.07	7.38	-	n
Total HxCDF	174616676	1.29 y	30:24	1.20	8078.20	7.29	-	n
13C-1,2,3,6,7,8-HxCDD	52121400	1.38 y	31:47	0.77	3905.51	5.20	97.6	n
1,2,3,4,7,8-HxCDD	27759900	1.26 y	31:41	1.03	2070.67	7.34	-	n
1,2,3,6,7,8-HxCDD	30766900	1.31 y	31:48	1.11	2133.60	6.82	-	n
1,2,3,7,8,9-HxCDD	32017700	1.30 y	32:09	1.24	1977.80	6.08	-	n
Total HxCDD	90544500	1.26 y	31:41	1.13	6182.07	6.70	-	n
13C-1,2,3,4,6,7,8-HpCDF	56947600	0.43 y	33:57	0.98	3340.50	7.52	83.5	n
1,2,3,4,6,7,8-HpCDF	42433200	1.04 y	33:58	1.35	2208.34	5.56	-	n
1,2,3,4,7,8,9-HpCDF	33996600	1.03 y	35:13	1.19	2013.09	6.33	-	n
Total HpCDF	76488244	1.04 y	33:58	1.27	4224.67	5.92	-	n
13C-1,2,3,4,6,7,8-HpCDD	46599100	1.06 y	34:52	0.81	3327.91	8.06	83.2	n
1,2,3,4,6,7,8-HpCDD	24727300	1.06 y	34:53	1.03	2068.11	6.40	-	n
Total HpCDD	24772232	2.52 n	34:15	1.03	2071.87	6.40	-	n
13C-OCDD	60137100	0.86 y	37:31	0.62	5625.28	4.82	70.3	n
OCDF	48126200	0.86 y	37:38	1.44	4430.72	10.45	-	n
OCDD	36382800	0.89 y	37:31	1.09	4438.88	5.53	-	n

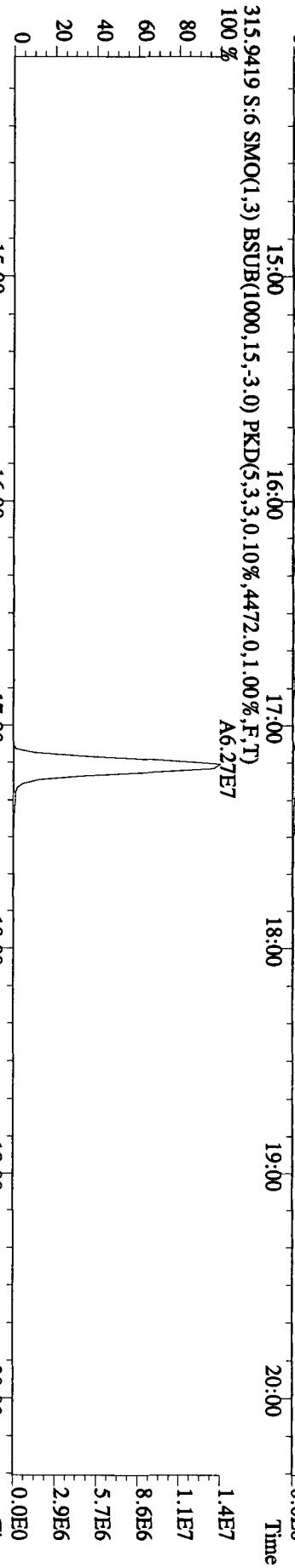
File:25AU10A1IDS #1-372 Acq:26-AUG-2010 01:24:36 GC EI + Voltage SIR 70SE  
 Sample#6 Text:L518H-1-AD :G0H230000-312L Exp:DIOXINRES  
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2696.0,1.00%,F,T)  
 100%



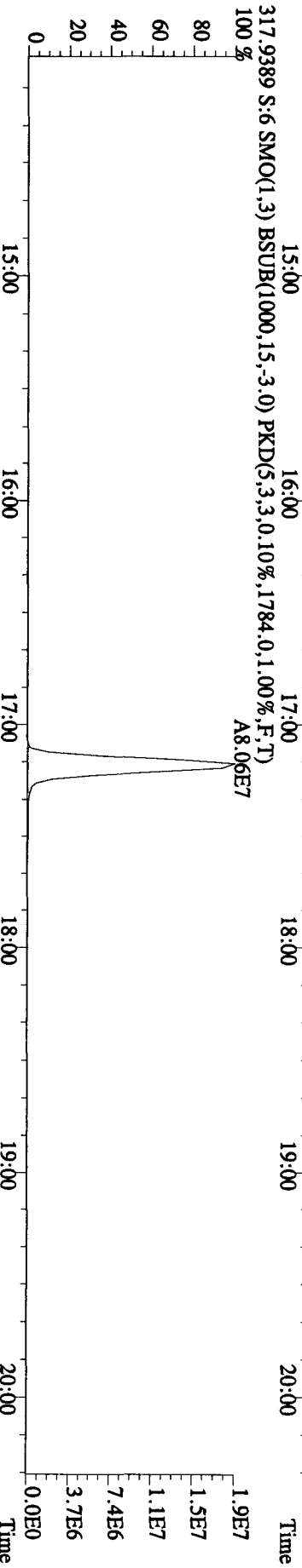
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3616.0,1.00%,F,T)  
 100%



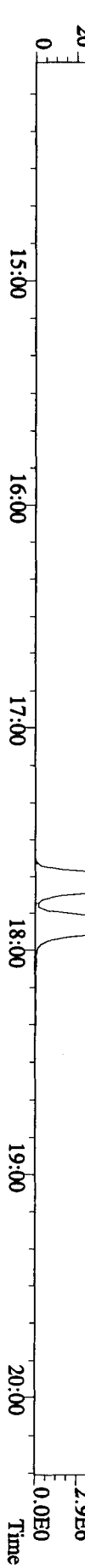
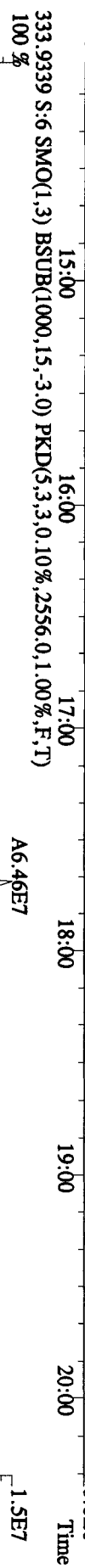
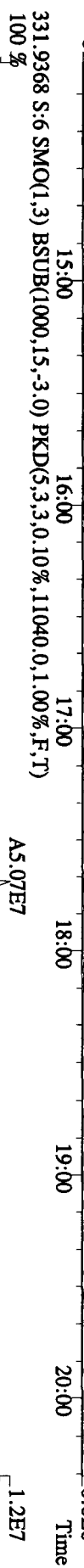
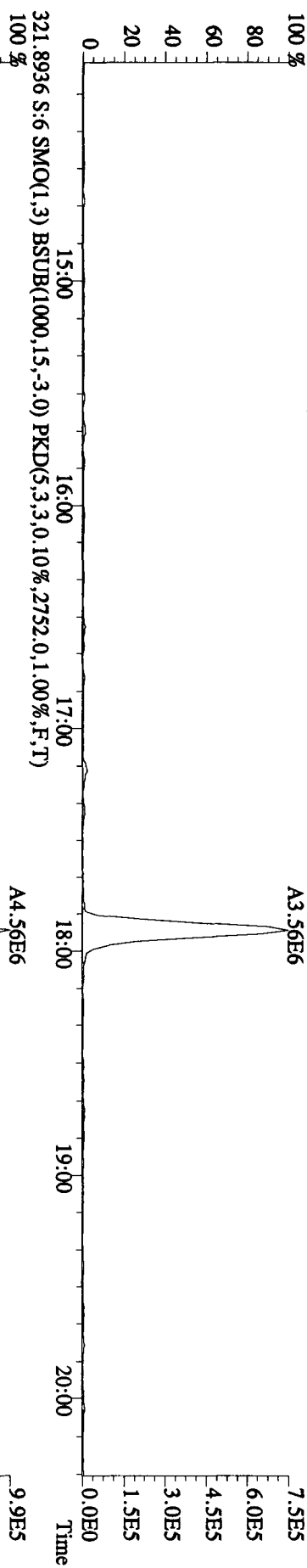
315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4472.0,1.00%,F,T)  
 100%



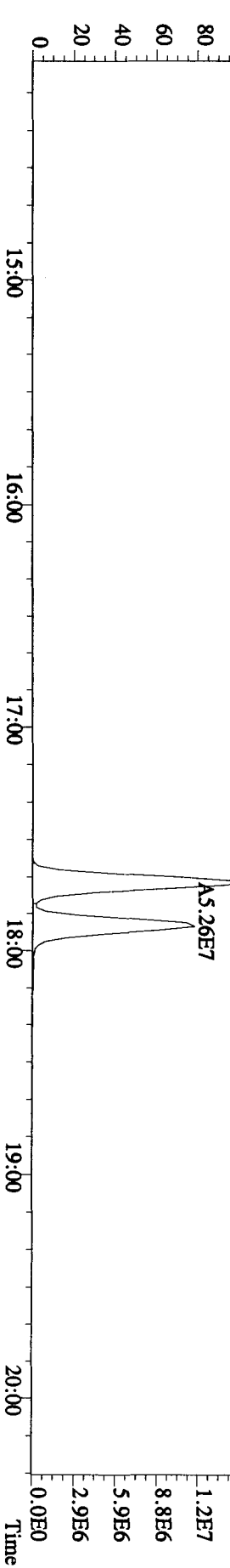
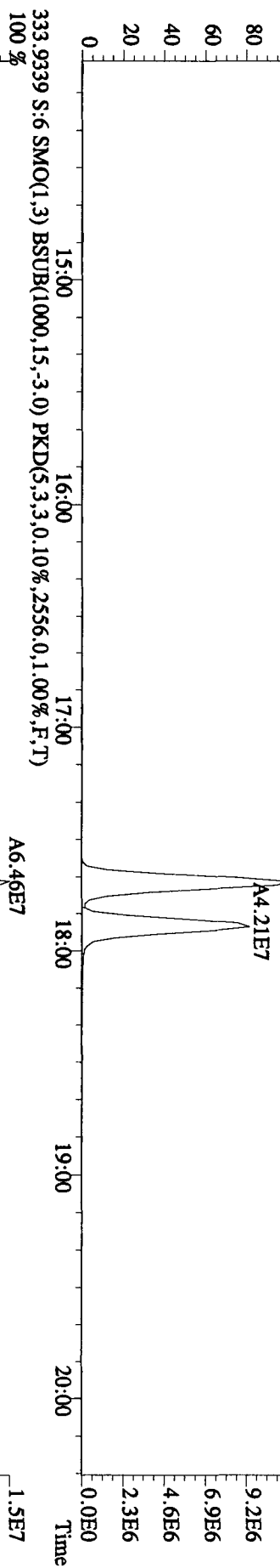
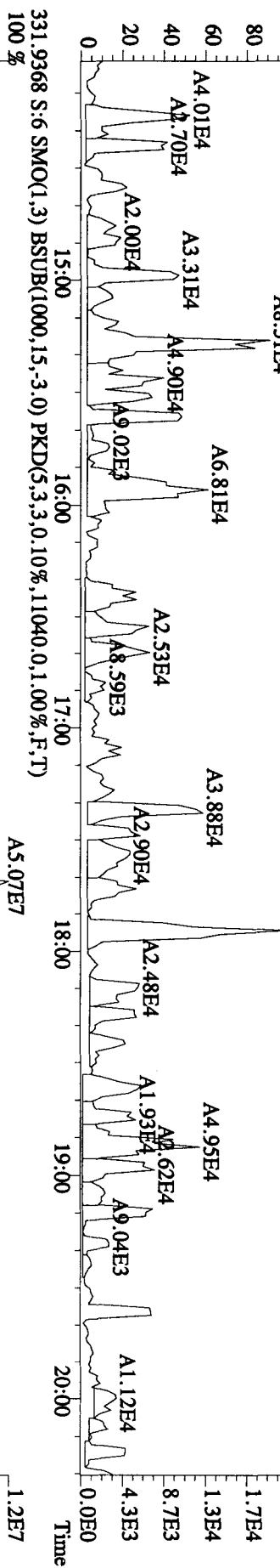
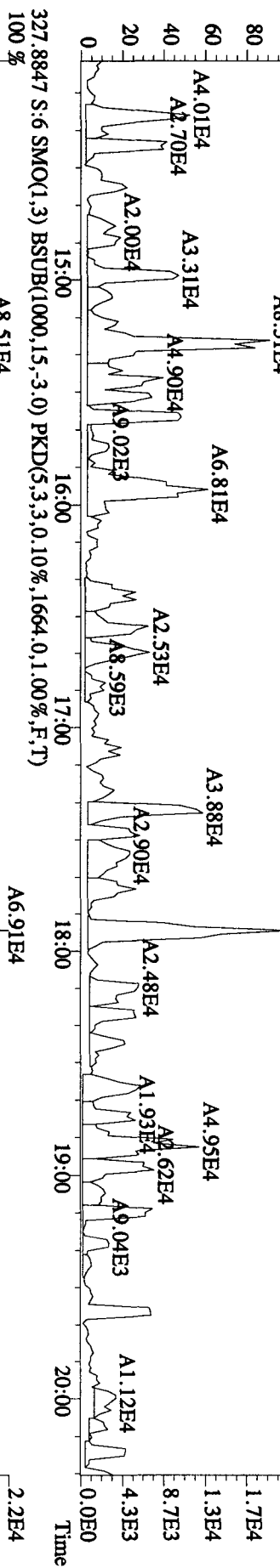
317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1784.0,1.00%,F,T)  
 100%



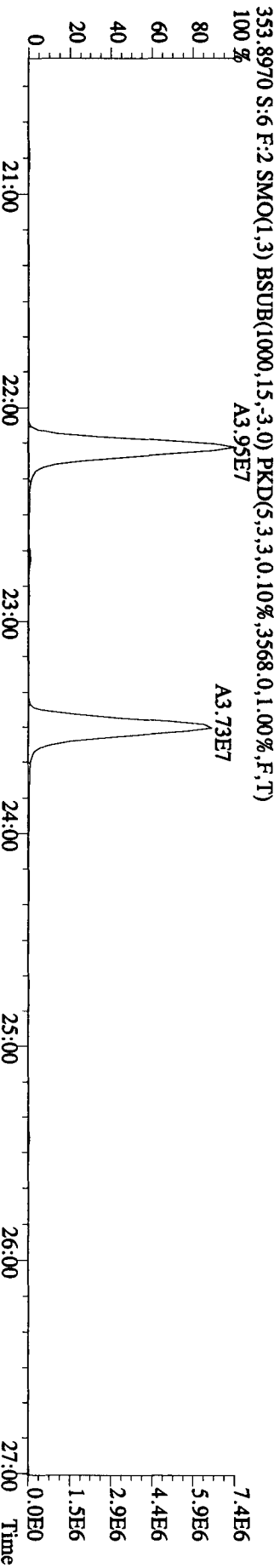
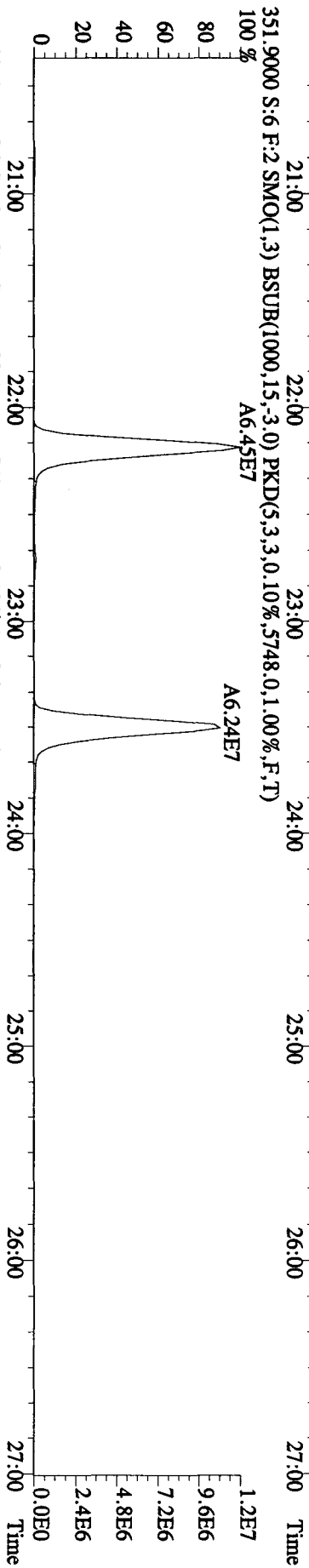
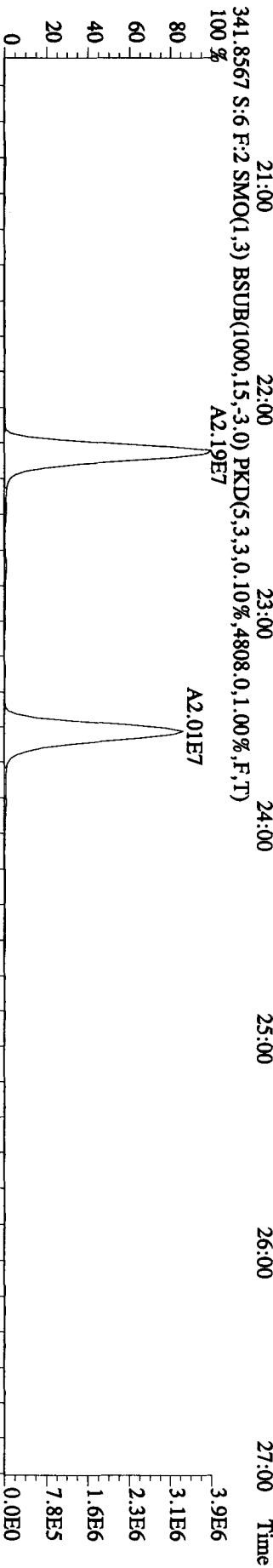
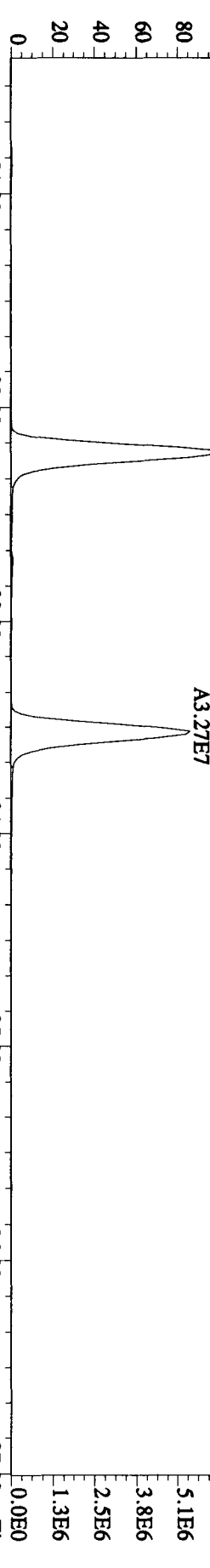
File:25AU10A1D5 #1-372 Acq:26-AUG-2010 01:24:36 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:L518H-1-AD :G0H230000-312L Exp:DIOXINES  
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2888.0,1.00%,F,T)  
 100 %



File:25AU10A1D5 #1-372 Acq:26-AUG-2010 01:24:36 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:L518H-1-AD :G0H230000-312L Exp:DIOXINRES  
 327.8847 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1664.0,1.00%,F,T)  
 100%

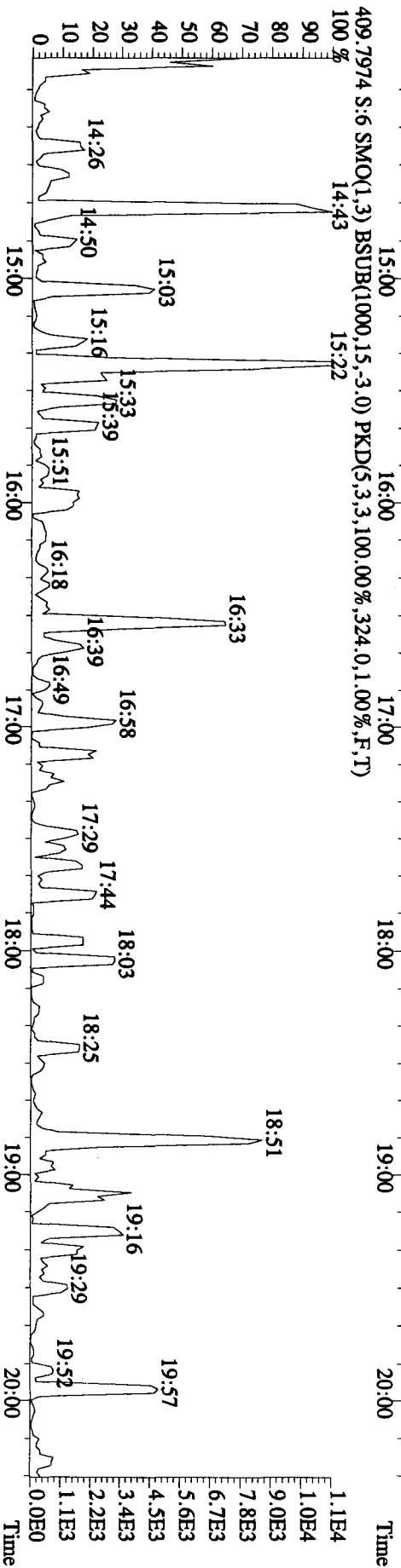
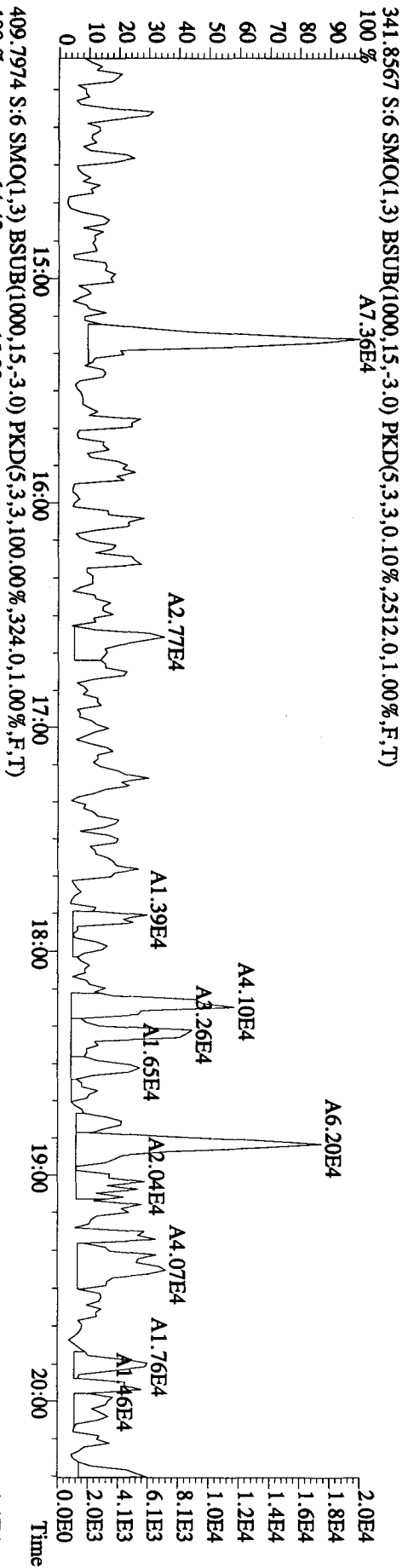
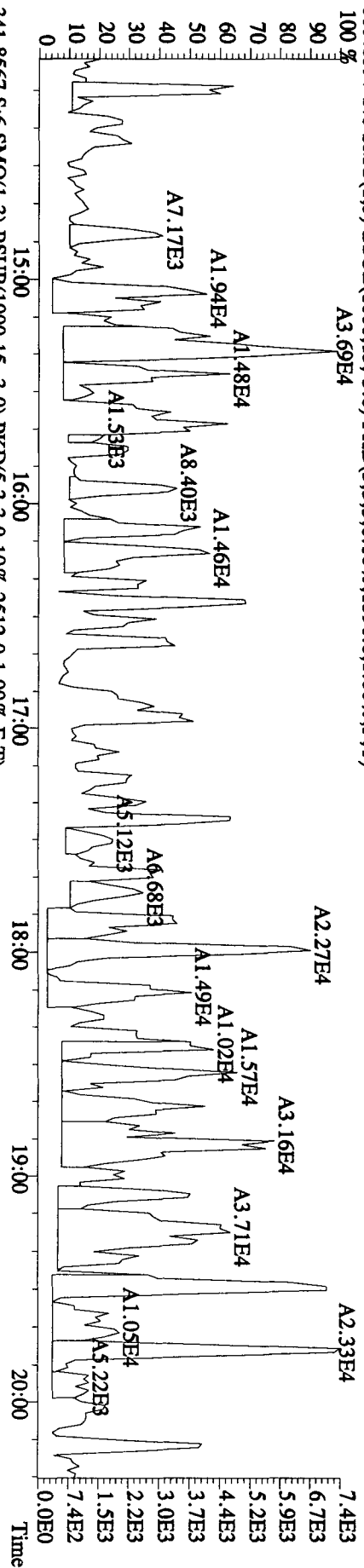


File:25AU10A1D5 #1-414 Acq:26-AUG-2010 01:24:36 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:L518H-1-AD :G0H230000-312L Exp:DIOXINRES  
 339 8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3212,0,1,00%,F,T)  
 100 %





File:25AU10A1D5 #1-372 Acq:26-AUG-2010 01:24:36 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:L518H-1-AD :G0H230000-312L Exp:DIOXINRES  
 339 8597 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1396.0,1.00%,F,T)



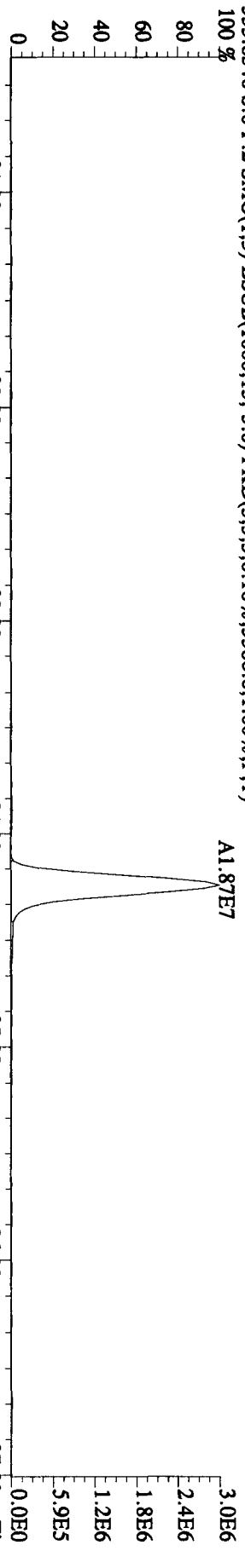
File:25AU10A1D5 #1-414 Acq:26-AUG-2010 01:24:36 GC EI + Voltage SIR 70SE

Sample#6 Text:L518H-1-AD :G0H230000-312L

Exp:DIOXINRES

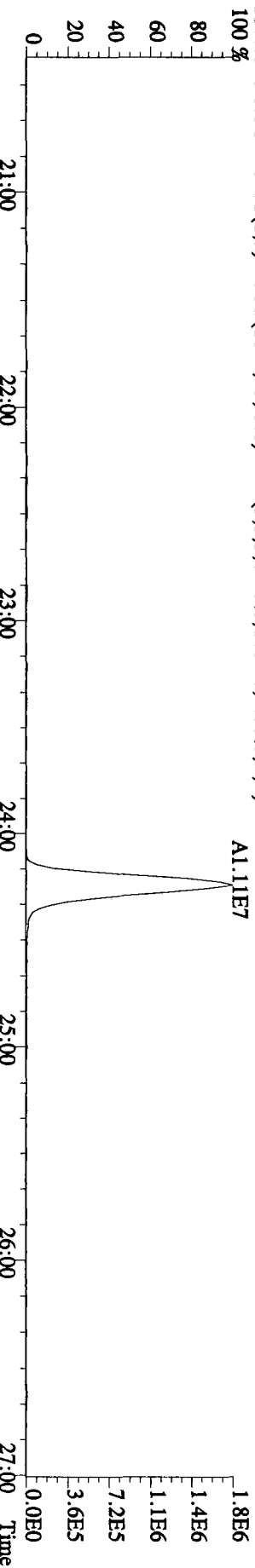
355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.3580,0,1,00%,F,T)

100 %



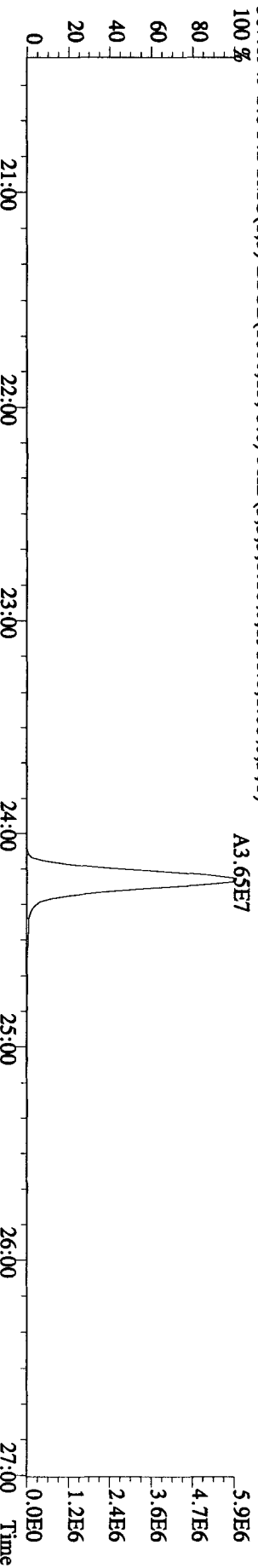
357.8516 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.2488,0,1,00%,F,T)

100 %



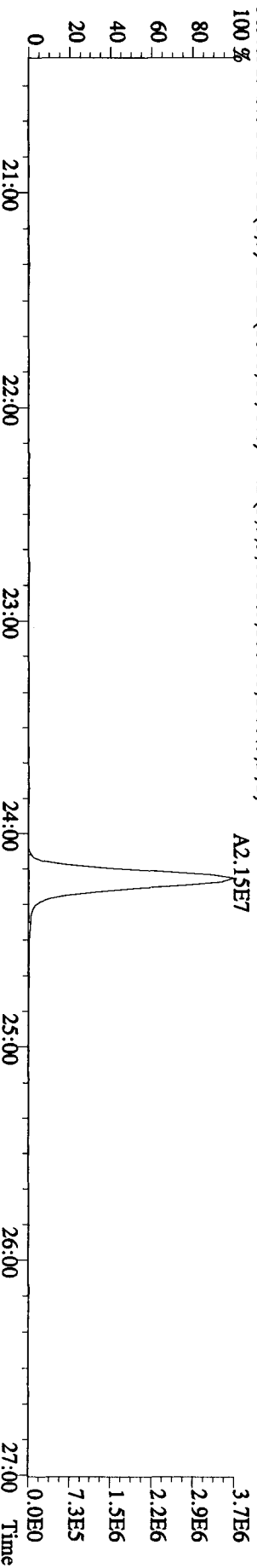
367.8949 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.1916,0,1,00%,F,T)

100 %



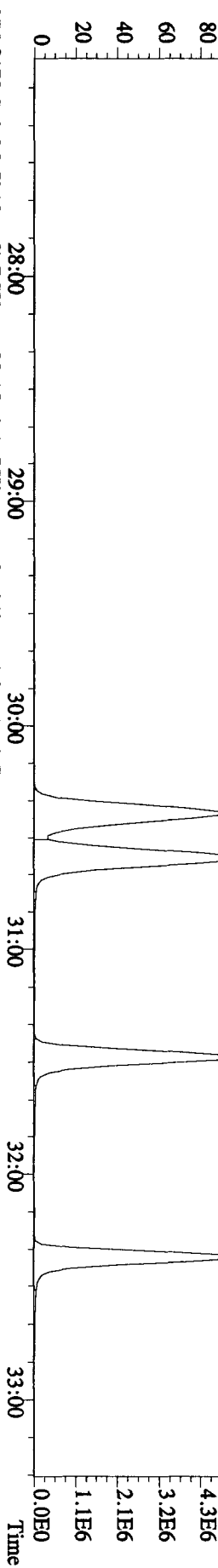
369.8919 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.1800,0,1,00%,F,T)

100 %

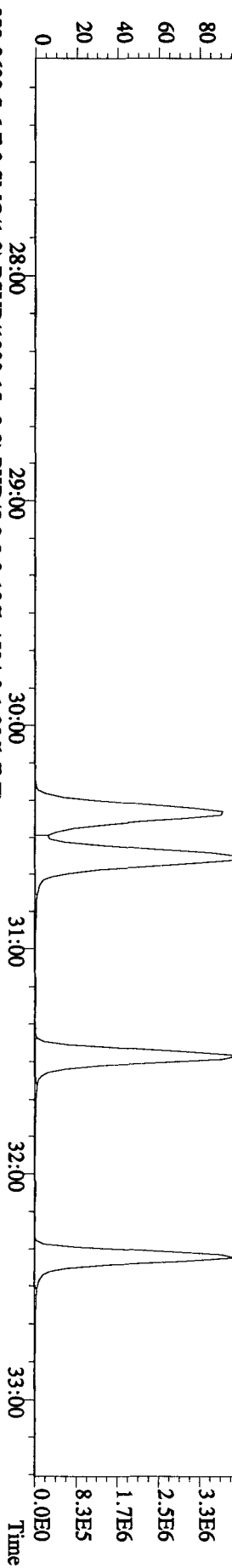


Sample#6 Text:1518H-1-AD :G0H230000-312L Exp:DIOXINRES

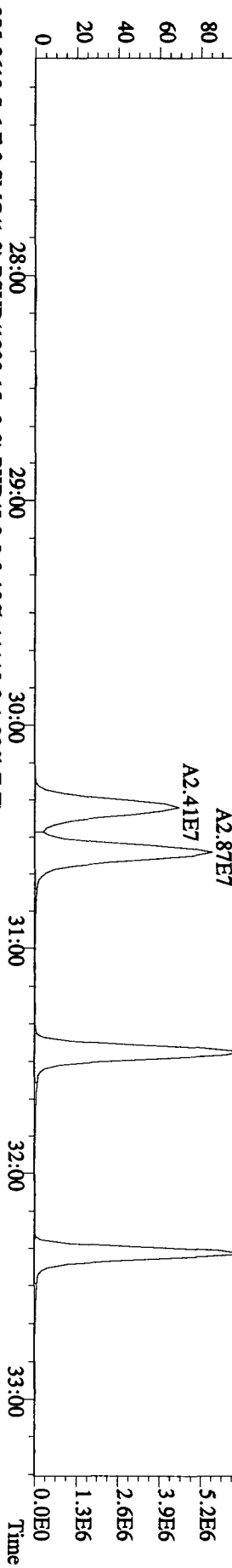
373.8208 S:6 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5560,0,1,00%,F,T)



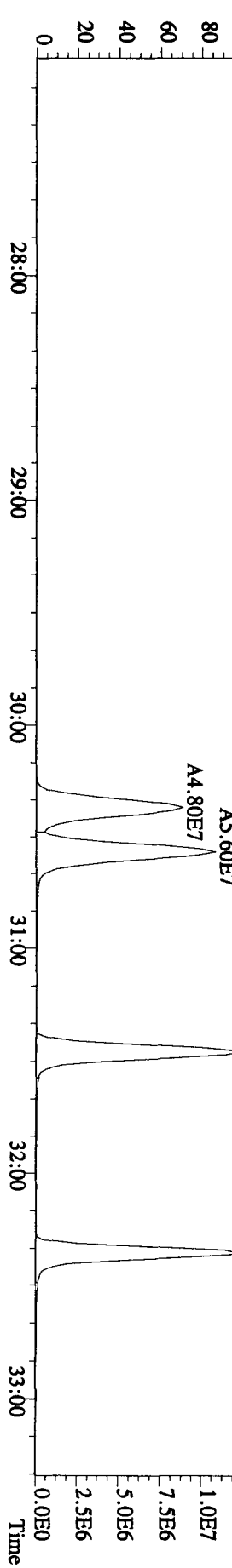
375.8178 S:6 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4224,0,1,00%,F,T)



383.8639 S:6 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4504,0,1,00%,F,T)



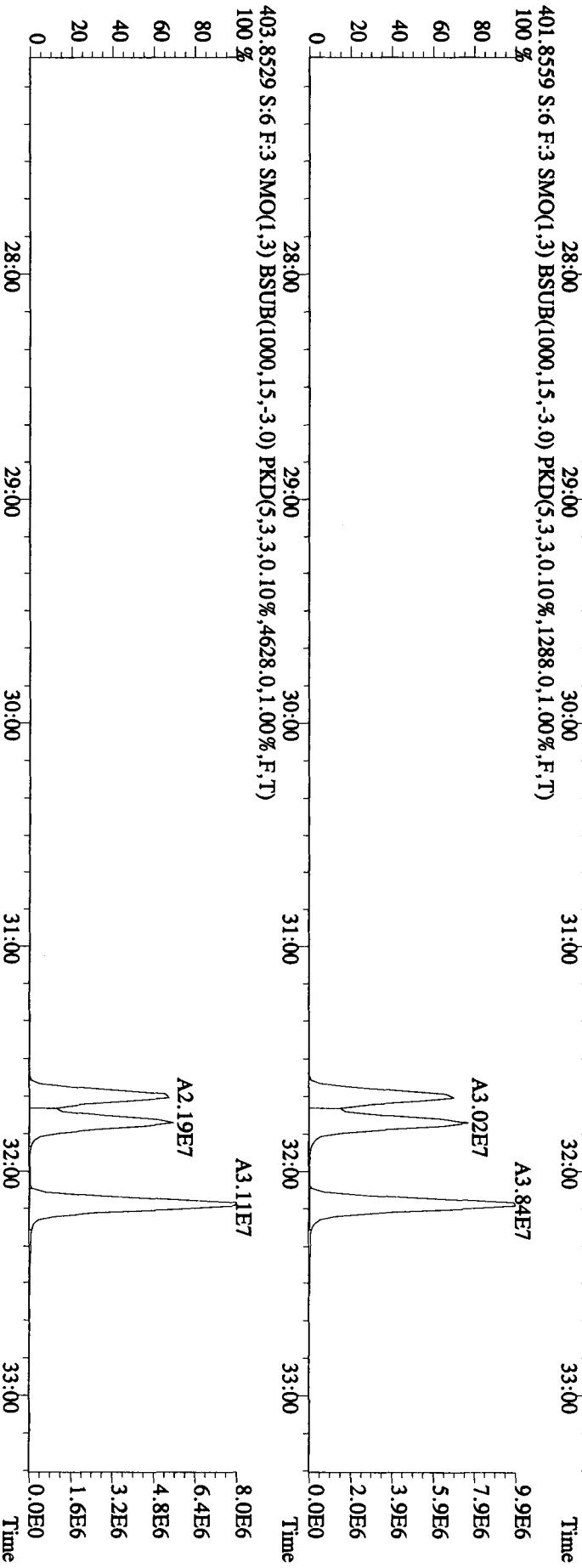
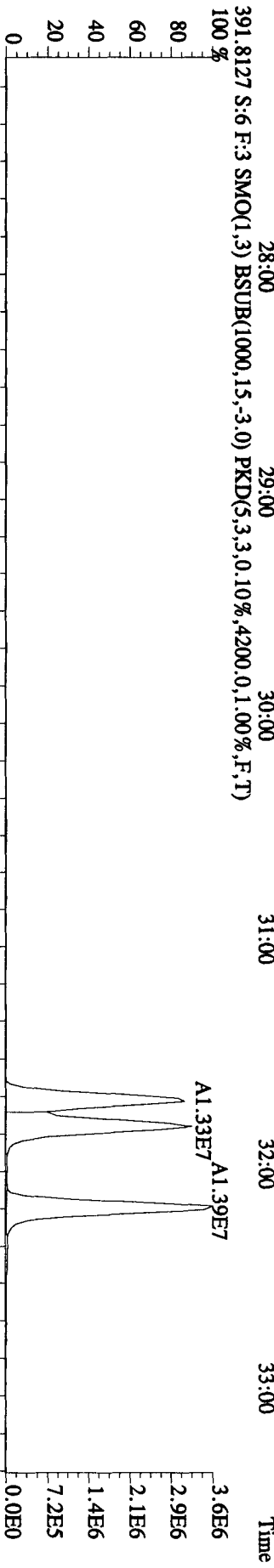
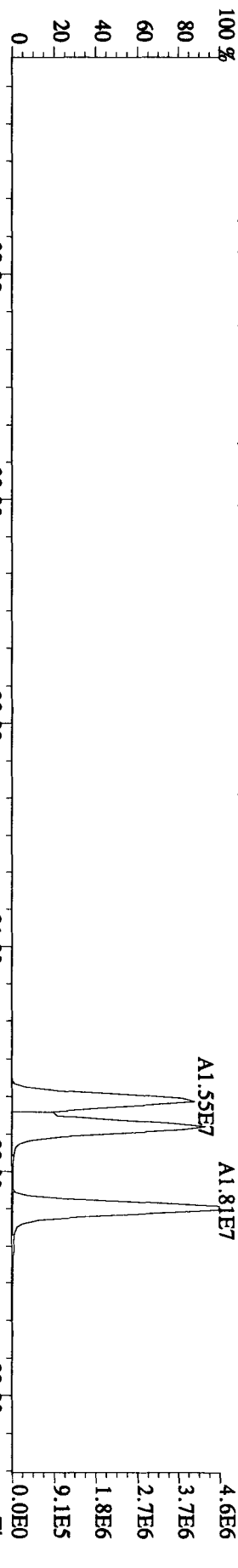
385.8610 S:6 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,11112,0,1,00%,F,T)



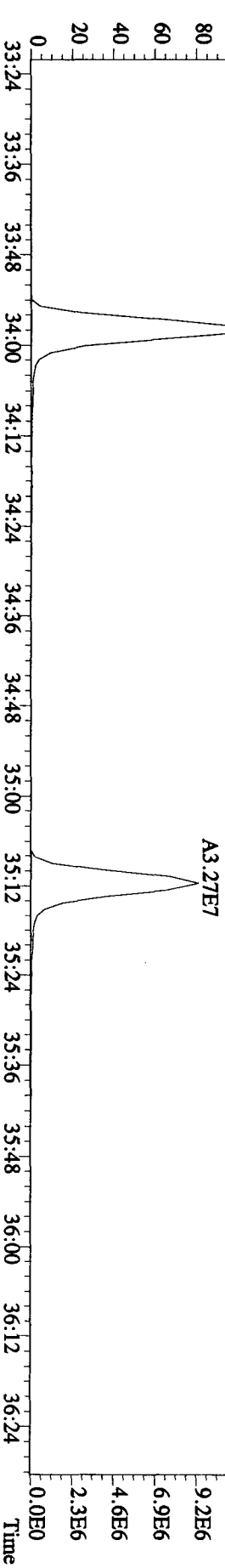
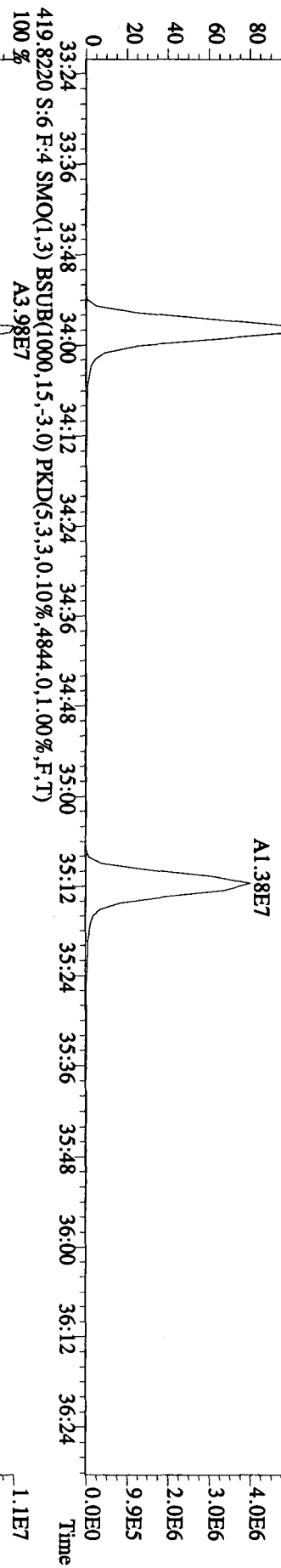
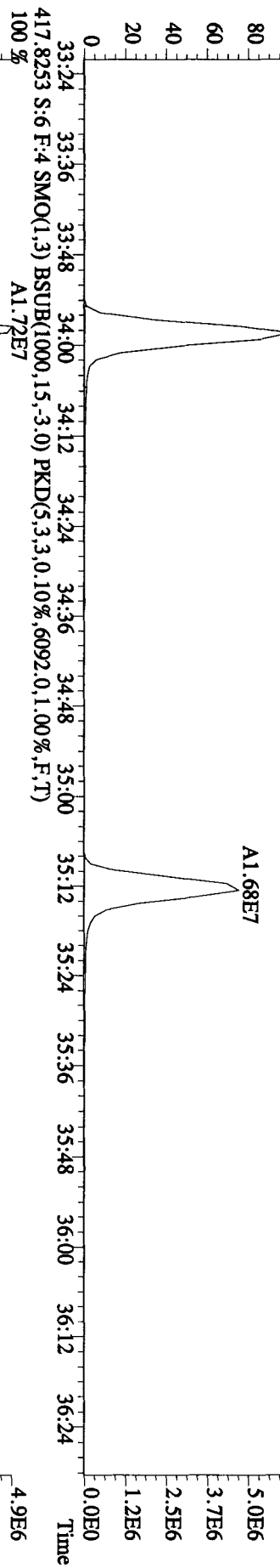
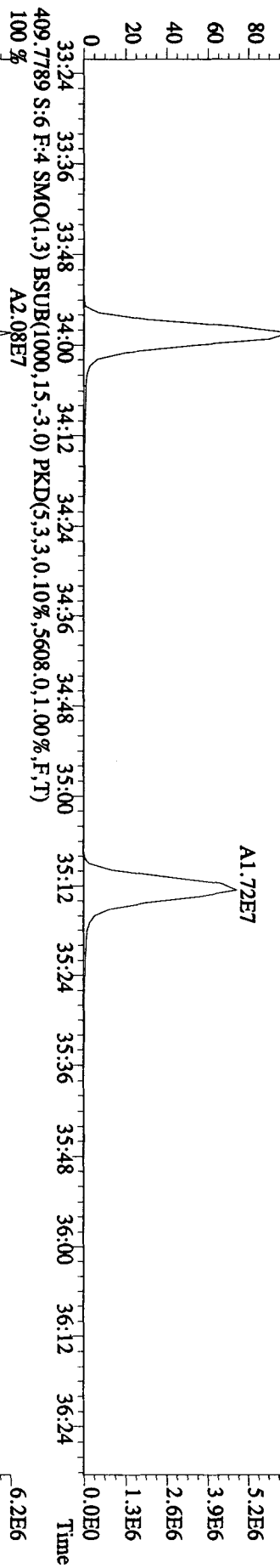
File:25AU10A1IDS #1-406 Acq:26-AUG-2010 01:24:36 GC EI+ Voltage SIR 70SE

Sample#6 Text:L518H-1-AD :G0H230000-312L Exp:DIOXINRES

389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4056,0,1.00%,F,T)



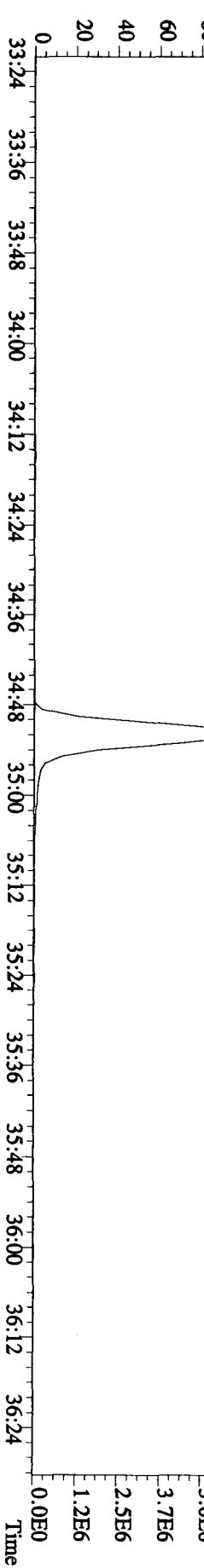
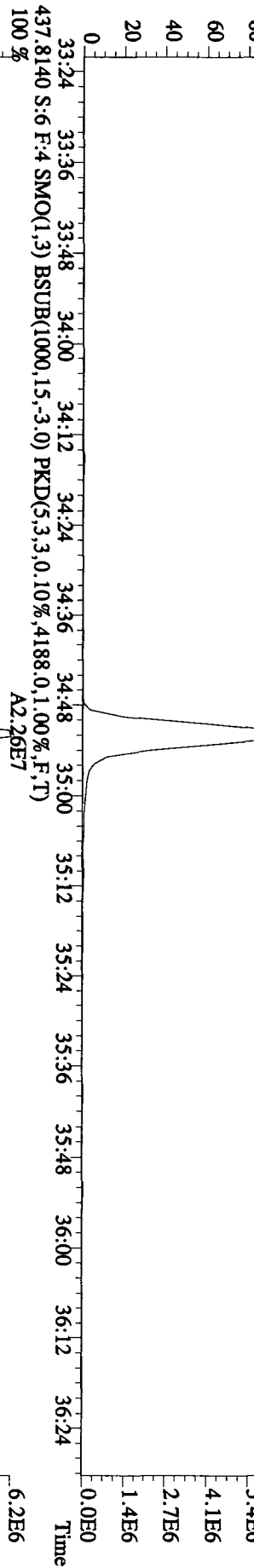
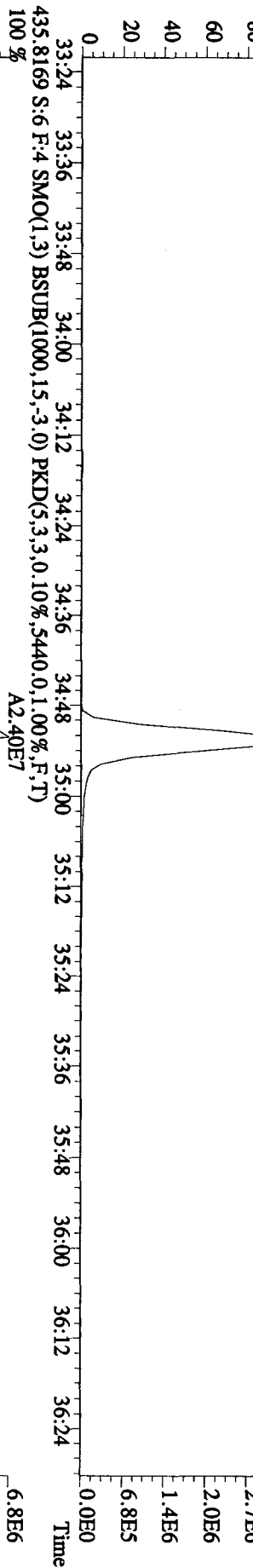
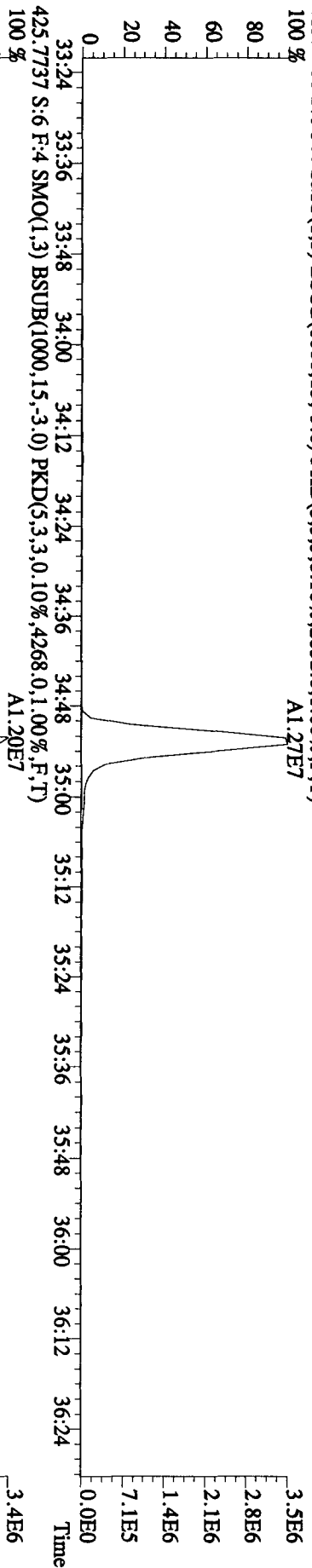
407.7818 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4660,0,1,1.00%,F,T)  
100 % A2.17E7



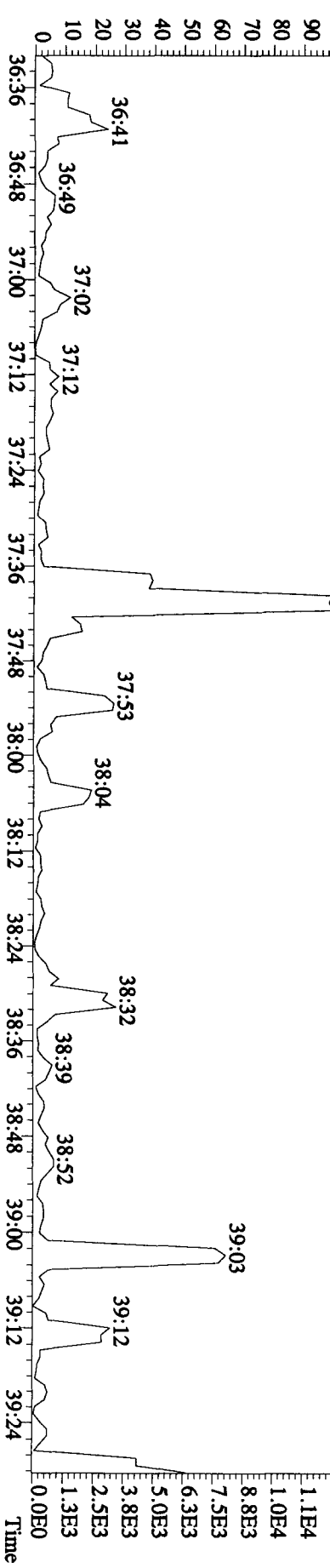
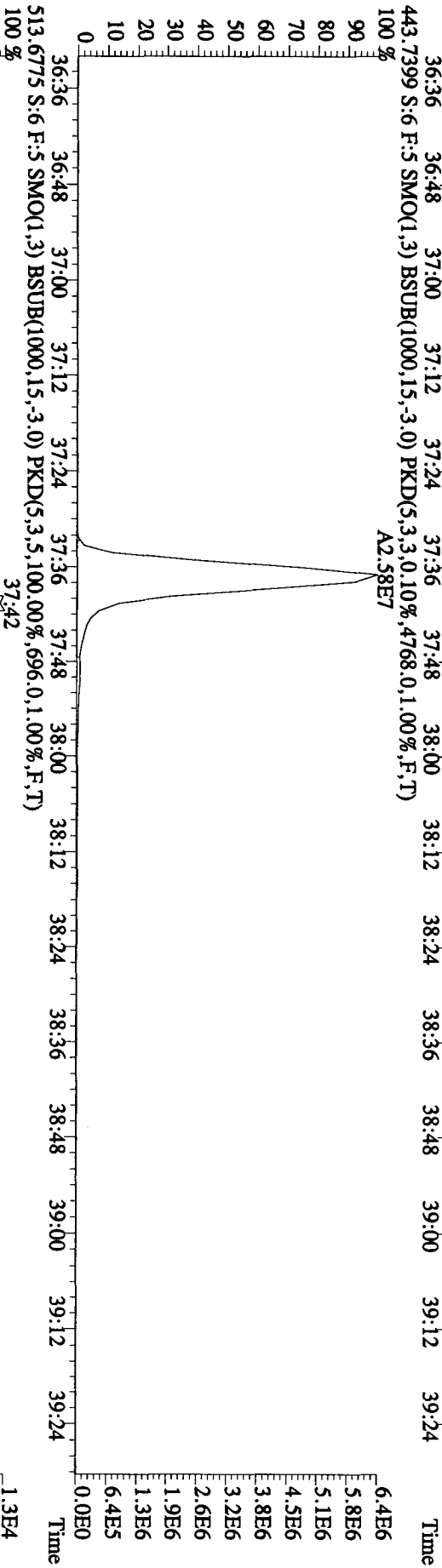
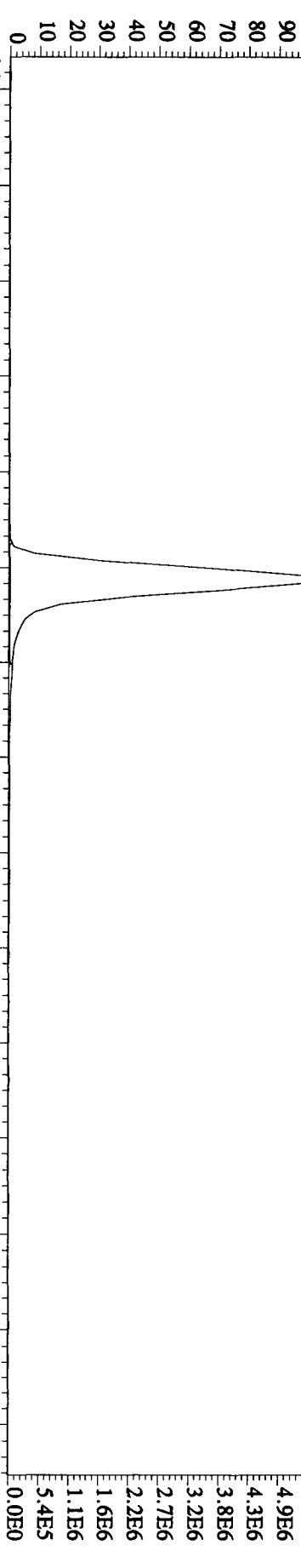
File:25AU10A1D5 #1-214 Acq:26-AUG-2010 01:24:36 GC EI+ Voltage SIR 70SE

Sample#6 Text:L518H-1-AD :G0H230000-312L Exp:DIOXINRES

423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2852.0,1.00%,F,T)



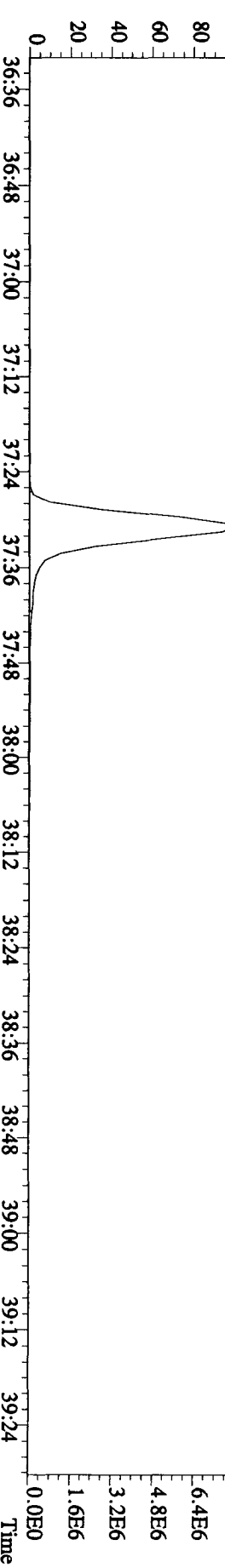
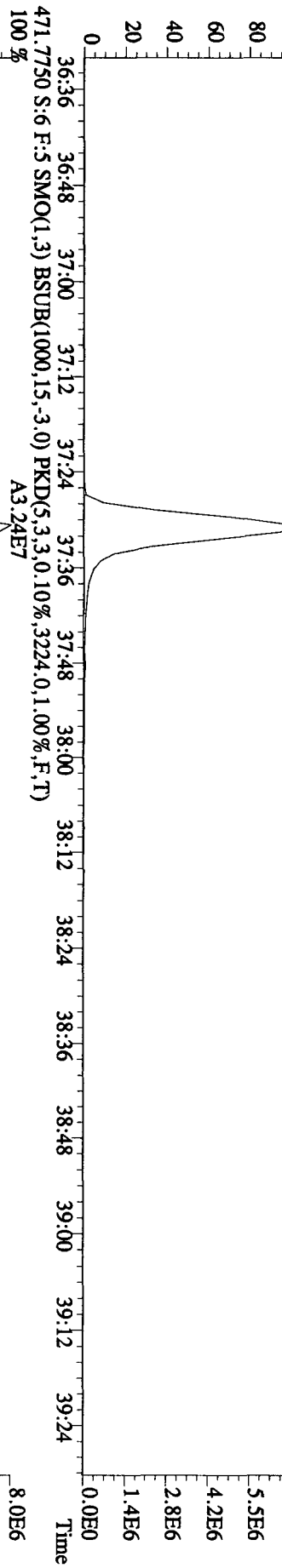
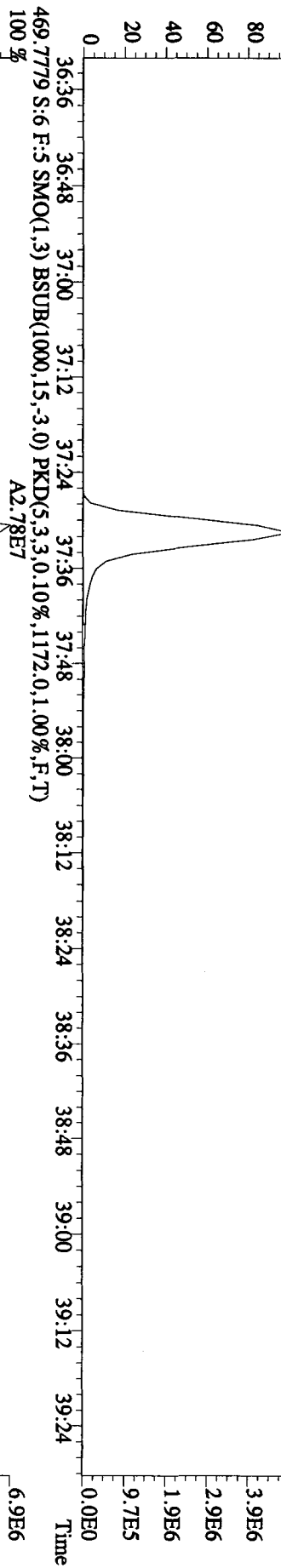
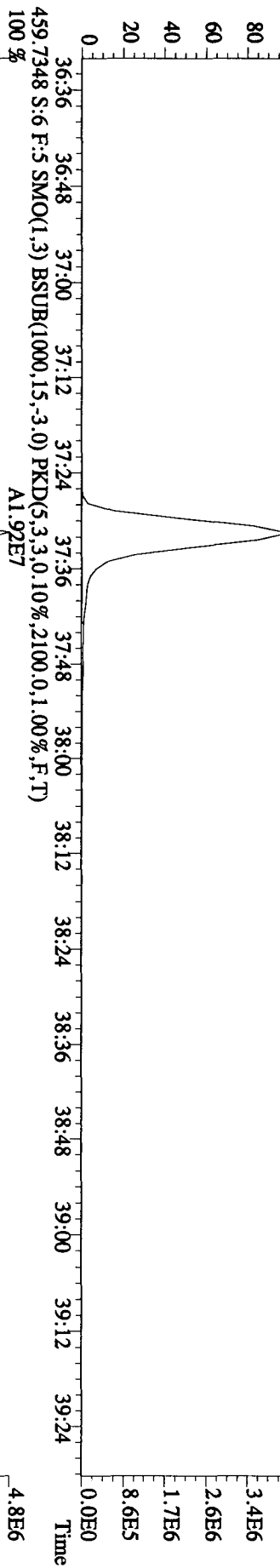
File:25AU10A1D5 #1-196 Acq:26-AUG-2010 01:24:36 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:1.518H-1-AD :G0H230000-312L Exp:DIOXINRES  
 441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4652,0.1,00%,F,T)  
 100% A2.23E7



File:25AU10A1D5 #1-196 Acq:26-AUG-2010 01:24:36 GC EI+ Voltage SIR 70SE

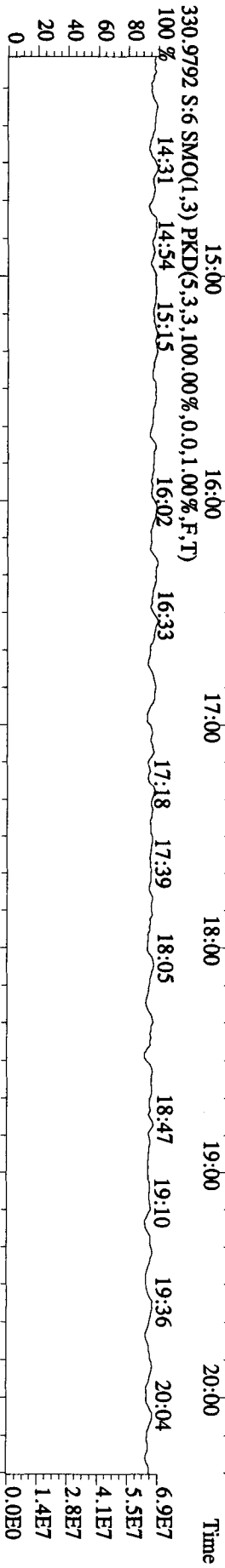
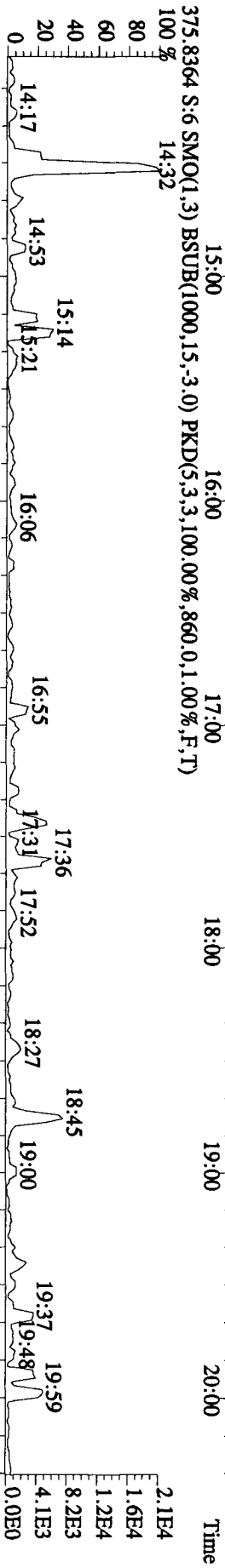
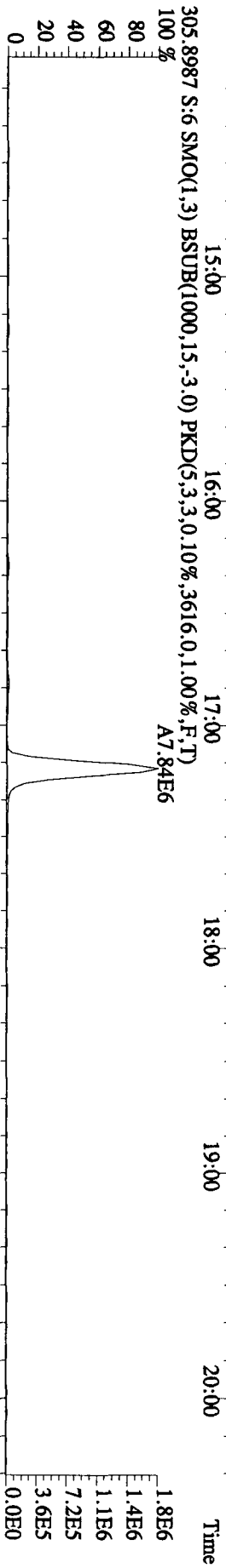
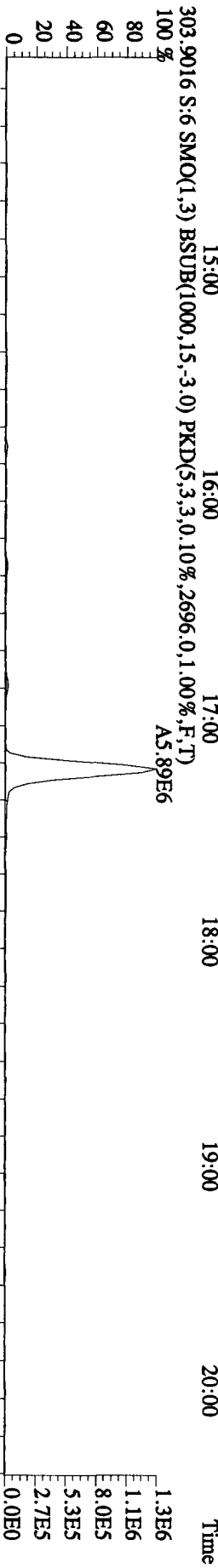
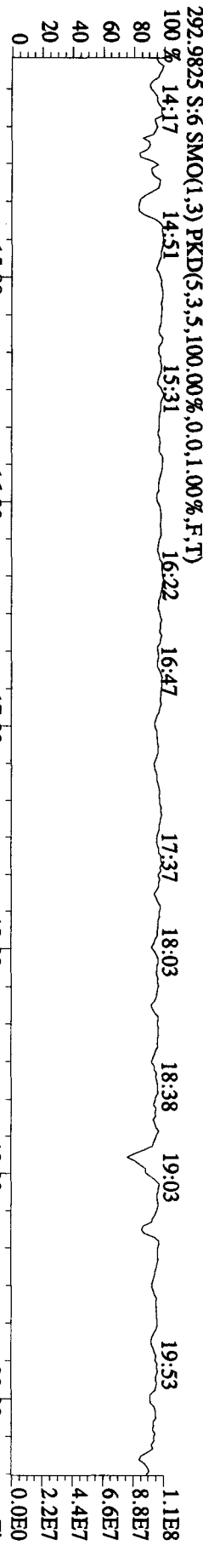
Sample#6 Text:L518H-1-AD :G0H230000-312L Exp:DIOXINRES

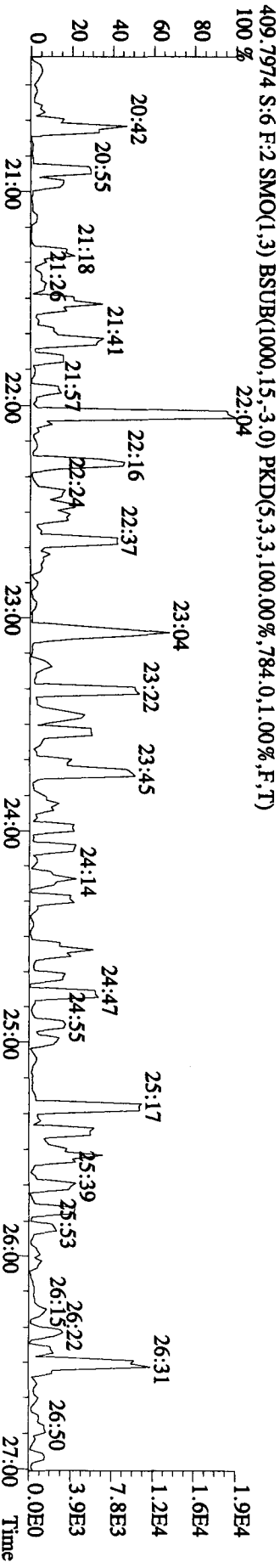
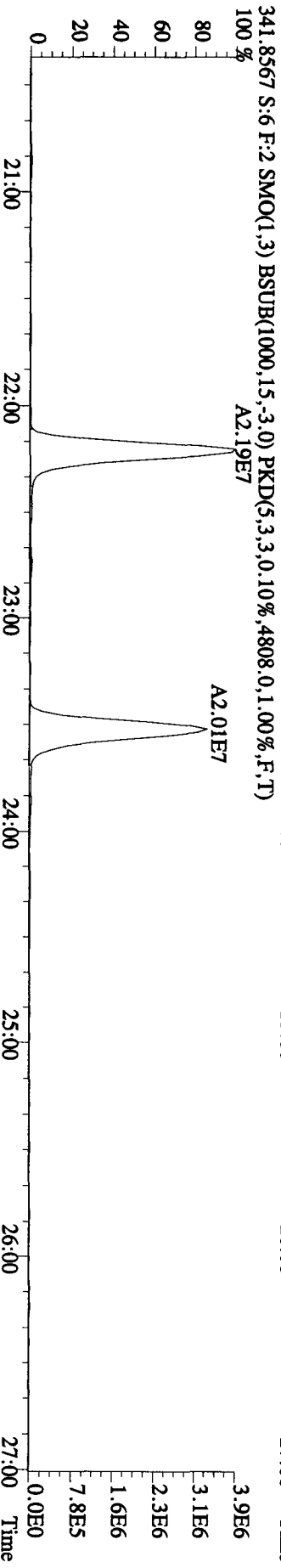
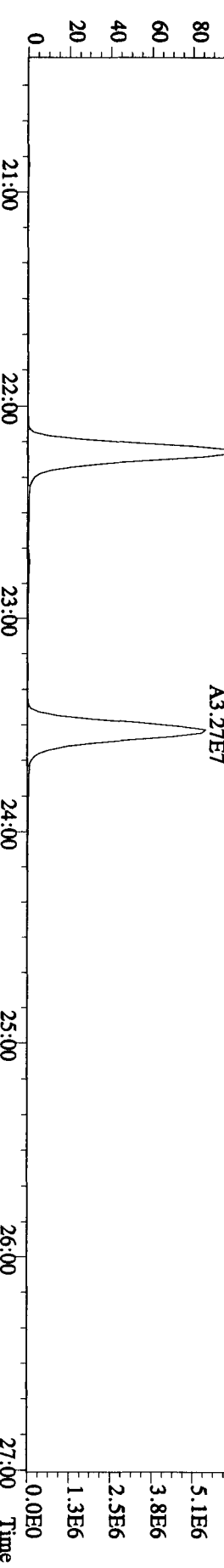
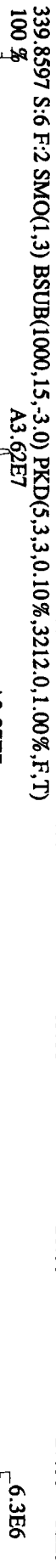
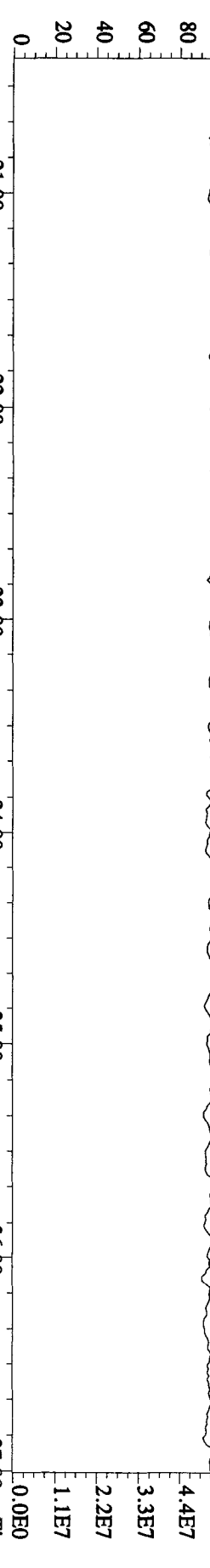
457.7377 S:6 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,1660.0,1.00%,F,T)  
100% A1.72E7

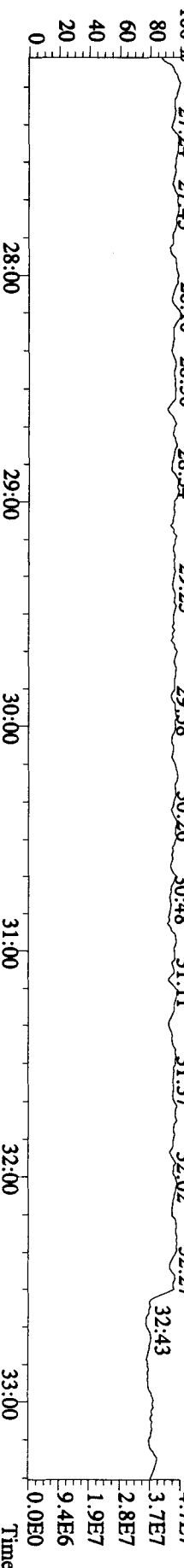
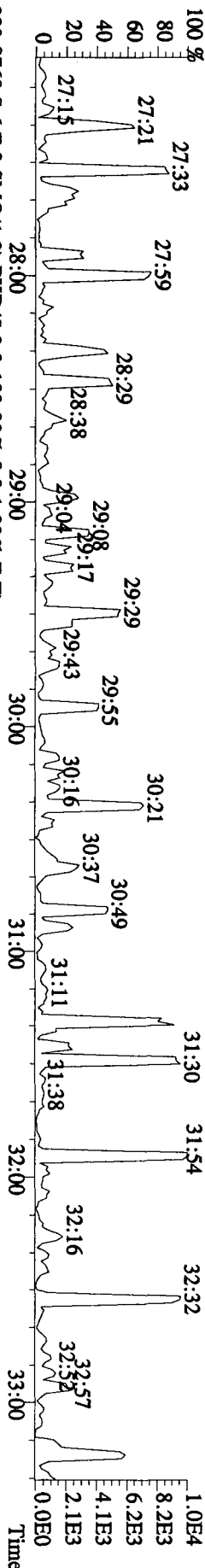
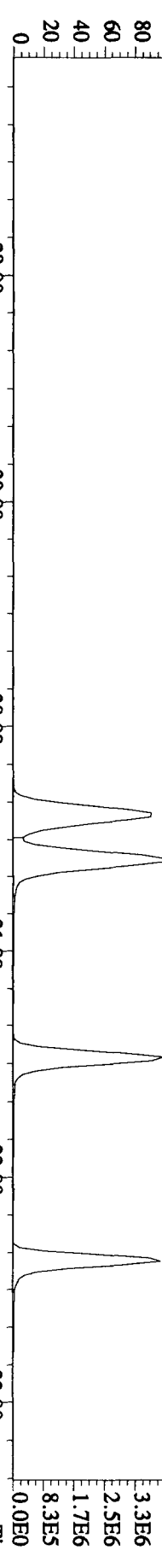
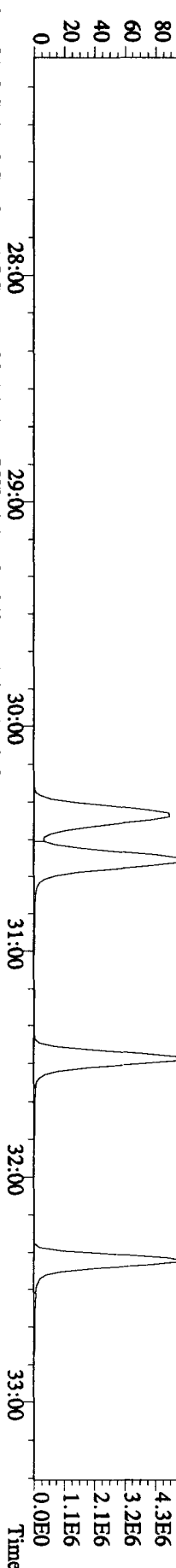
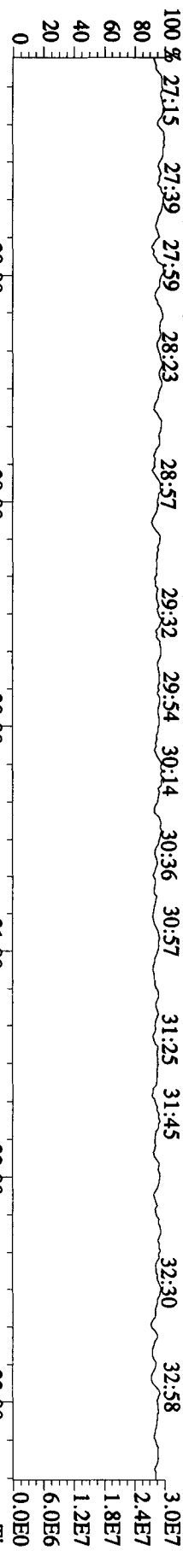


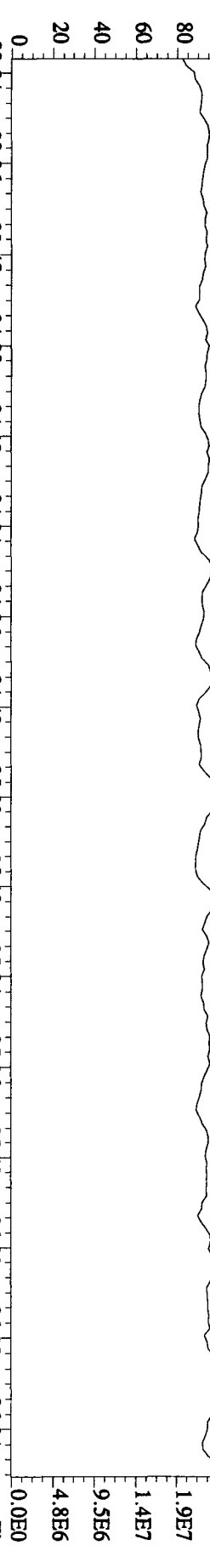


File:25AU10A1D5 #1-372 Acq:26-AUG-2010 01:24:36 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:L518H-1-AD :G0H230000-312L Exp:DIOXINRES

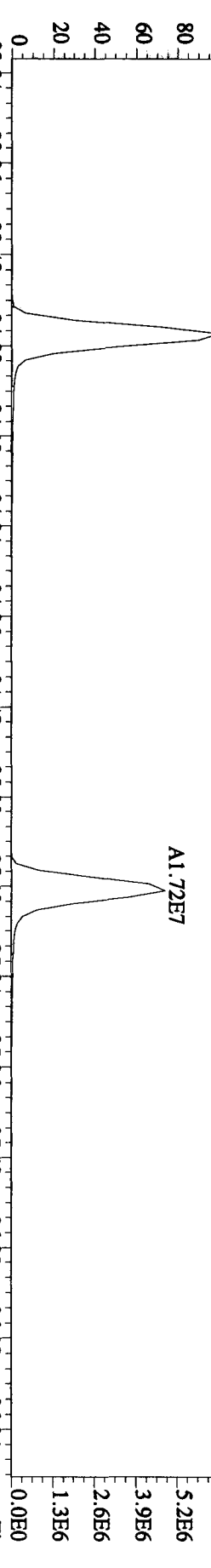




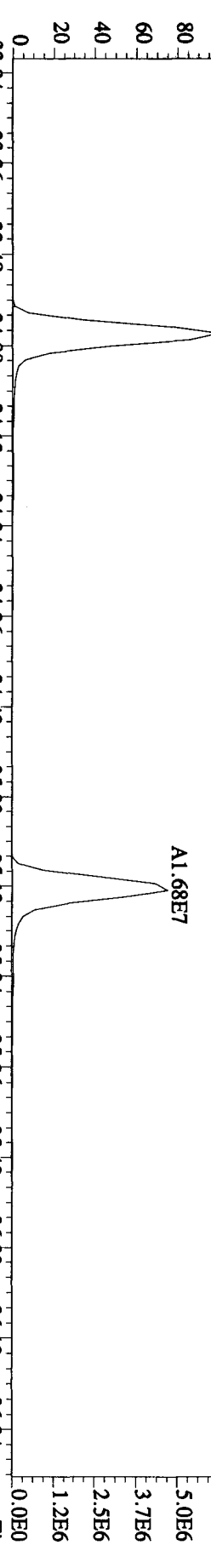




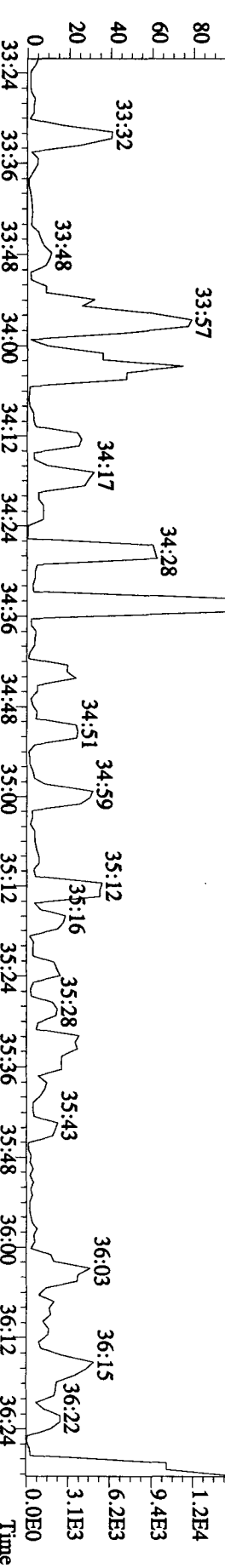
407.7818 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,4660,0,1,00%,F,T)



409.7789 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,5608,0,1,00%,F,T)



479.7165 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.100,0.0%,692,0,1,00%,F,T)



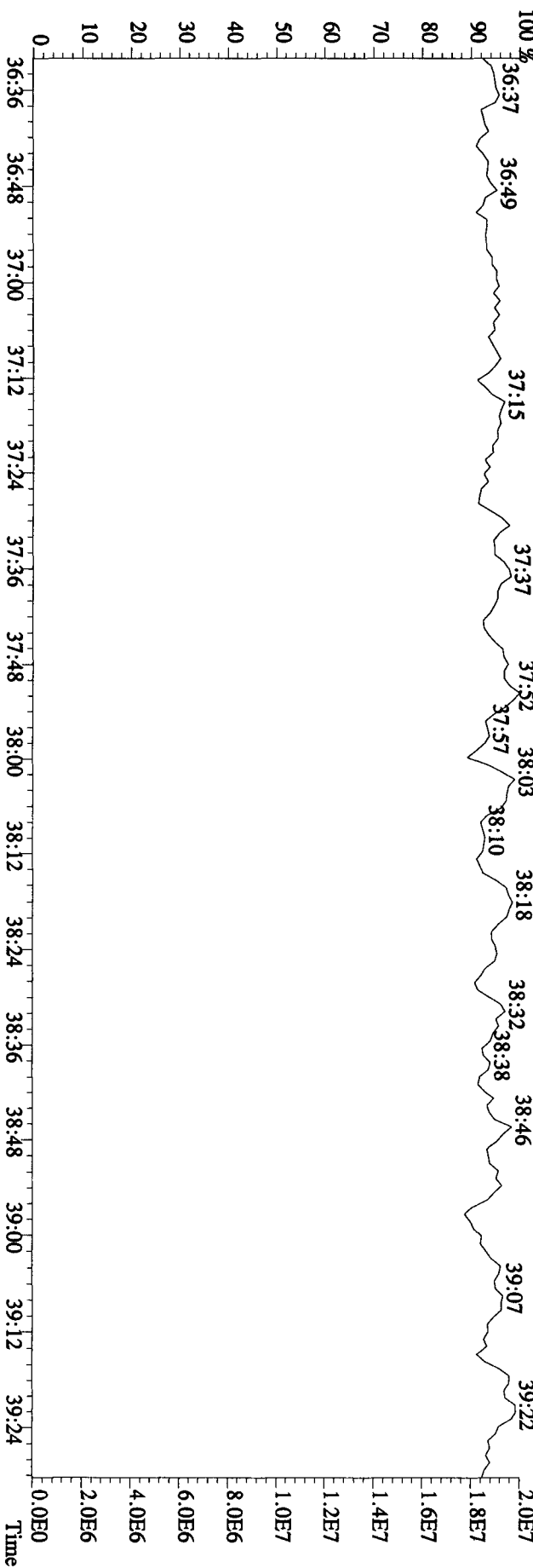
File:25AU10AID5 #1-196 Acq:26-AUG-2010 01:24:36 GC EI+ Voltage SIR 70SE

Sample#6 Text:L518H-1-AD :G0H230000-312L Exp:DIOXINRES

454.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: L507E-1-AA      Sample text: L507E-1-AA :G0H210471-1  
 Run #11 Filename: 25AU10A1D5 S: 7    I: 1      Results: 25AU10A1D5TO9  
 Acquired: 26-AUG-10    02:08:33      Processed: 26-AUG-10    15:08:22  
 Run: 25AU10A1D5      Analyte: TO9      Cal: TO90727101D5  
 Factor 1: 1600.000    Factor 2: 20.000      Sample size: 0.500000Sample

AK 8/27/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	144229700	0.80 y	17:42	-	76.63	-	-	n
13C-2,3,7,8-TCDF	186892000	0.81 y	17:11	1.56	3318.96	2.07	83.0	n
2,3,7,8-TCDF	220449	0.83 y	17:11	0.87	5.39 J	2.07	-	n
Total TCDF	521375	1.28 n	15:33	0.87	<del>12.75</del> 5.39	2.07	-	n
13C-2,3,7,8-TCDD	120325100	0.78 y	17:53	0.94	3567.77	5.51	89.2	n
2,3,7,8-TCDD	*	* n	NotFnd	0.96	*	2.67	-	n
Total TCDD	219786	0.44 n	15:39	0.96	<del>7.63</del>	2.67	-	n
37Cl-2,3,7,8-TCDD	112003600	1.00 y	17:54	1.22	3061.43	1.73	191.3	n
13C-1,2,3,7,8-PeCDF	123235300	1.64 y	22:11	1.06	3218.38	2.38	80.5	n
1,2,3,7,8-PeCDF	113595	1.37 y	22:12	1.08	<del>3.41</del>	3.55	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.98	*	3.91	-	n
Total F2 PeCDF	180080	1.37 y	22:12	1.03	<del>5.57</del>	<del>3.72</del> 3.91	-	n
Total F1 PeCDF	194507	2.08 n	14:29	1.03	<del>6.13</del>	<del>2.60</del>	-	n
13C-1,2,3,7,8-PeCDD	70699900	1.73 y	24:12	0.65	3034.26	2.50	75.9	n
1,2,3,7,8-PeCDD	36451	2.42 n	24:14	0.92	<del>2.23</del>	4.65	-	n
Total PeCDD	278228	1.39 y	21:13	0.92	<del>17.02</del>	<del>4.65</del> 4.93	-	n
13C-1,2,3,7,8,9-HxCDD	86137000	1.31 y	32:09	-	60.60	-	-	n
13C-1,2,3,4,7,8-HxCDF	88077200	0.50 y	30:22	0.99	4147.89	6.46	103.7	n
1,2,3,4,7,8-HxCDF	134613	1.85 n	30:22	<del>1.15</del> 1.23	4.955 <del>5.30</del> 4.5/N	3.70	-	n
1,2,3,6,7,8-HxCDF	70521	1.00 n	30:35	1.24	<del>2.58</del>	3.44	-	n
2,3,4,6,7,8-HxCDF	39983	2.02 n	31:28	1.22	<del>1.49</del>	3.51	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.19	*	3.60	-	n
Total HxCDF	494113	1.91 n	27:46	1.20	<del>18.79</del>	<del>3.56</del> 5.30	-	n
13C-1,2,3,6,7,8-HxCDD	60687300	1.31 y	31:47	0.77	3669.95	2.44	91.7	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.03	*	3.95	-	n
1,2,3,6,7,8-HxCDD	51344	1.07 y	31:49	1.11	<del>3.06</del>	3.67	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.24	*	3.27	-	n
Total HxCDD	231141	0.55 n	29:59	1.13	<del>13.58</del>	<del>3.61</del> 3.95	-	n
13C-1,2,3,4,6,7,8-HpCDF	67655000	0.45 y	33:58	0.98	3202.85	10.37	80.1	n
1,2,3,4,6,7,8-HpCDF	517189	1.11 y	33:59	1.35	22.66 J	2.51	-	n
1,2,3,4,7,8,9-HpCDF	115925	1.04 y	35:12	1.19	5.78 <del>4.5</del> J	2.86	-	n
Total HpCDF	750082	1.11 y	33:59	1.27	<del>33.89</del> 28.44	2.67	-	n
13C-1,2,3,4,6,7,8-HpCDD	53338000	1.05 y	34:52	0.81	3074.20	5.66	76.9	n
1,2,3,4,6,7,8-HpCDD	79343	0.93 y	34:53	1.03	5.80 J	3.59	-	n
Total HpCDD	209655	0.70 n	34:15	1.03	<del>15.32</del> 10.67	3.59	-	n
13C-OCDD	73459800	0.91 y	37:31	0.62	5545.64	7.86	69.3	n
OCDF	285630	0.71 n	37:37	1.44	21.53 SQ	5.57	-	n
OCDD	328855	0.92 y	37:32	1.09	32.85 J	4.96	-	n

Run Text: L507E-1-AA

Sample text: L507E-1-AA :G0H210471-1

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:6  
 Run: 11 File: 25AU10A1D5 S:7 Acq:26-AUG-10 02:08:33  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 6.38 of which 2.70 named and 3.68 unnamed  
 Conc: 12.75 of which 5.39 named and 7.36 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:33	1.28 n	1.30	38556 30025	1.9 2.5	n	n
	2	15:46	0.68 y	1.28	21163 31250	2.0 2.0	n	n
	3	16:03	1.04 n	1.51	36428 34948	2.1 2.4	n	n
	4	16:49	0.87 y	2.07	39356 45464	2.4 2.6	n	n
2,3,7,8-TCDF	5	17:11	0.83 y	5.39	99982 120467	4.6 7.0	y	n
	6	17:38	0.60 n	1.19	21182 35272	2.0 1.8	n	n

Run Text: L507E-1-AA

Sample text: L507E-1-AA :G0H210471-1

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:6  
 Run: 11 File: 25AU10A1D5 S:7 Acq:26-AUG-10 02:08:33  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 3.82 of which \* named and 3.82 unnamed  
 Conc: 7.63 of which \* named and 7.63 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:39	0.44 n	0.88	10984 24743	1.1 2.1	n	n
	2	15:56	1.84 n	1.05	31602 17154	3.0 1.3	y	n
	3	17:09	1.76 n	1.79	51261 29201	3.2 2.5	y	n
	4	17:20	0.56 n	0.99	12402 22222	1.3 1.7	n	n

5	18:12	0.58	n	0.69	8650	0.6	n	n
					14966	1.3	n	n
6	20:01	1.26	n	2.23	45718	2.6	n	n
					36213	2.9	n	n

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Run Text: L507E-1-AA

Sample text: L507E-1-AA :G0H210471-1

Name: Total F2 PeCDF

F:2 Mass: 339.860 341.857 Mod? no #Hom:3

Run: 11 File: 25AU10A1D5 S:7 Acq:26-AUG-10 02:08:33

Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount:	2.75 of which	1.71 named and	1.05 unnamed
Conc:	5.51 of which	3.41 named and	2.09 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,7,8-PeCDF	1	22:12	1.37	y	3.41	65569	4.2	y n
						48027	1.8	n n
	2	23:53	1.19	n	1.64	31667	1.7	n n
						26555	1.5	n n
	3	24:11	0.67	n	0.45	8745	1.0	n n
						13031	1.1	n n



Run Text: L507E-1-AA

Sample text: L507E-1-AA :G0H210471-1

Name: Total F1 PeCDF

F:1 Mass: 339.860 341.857 Mod? no #Hom:6

Run: 11 File: 25AU10A1D5 S:7 Acq:26-AUG-10 02:08:33

Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 3.06 of which \* named and 3.06 unnamed  
 Conc: 6.13 of which \* named and 6.13 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:29	2.08 n	1.63	42172 20234	7.4 1.9	y n	n n
	2	15:17	0.66 n	2.18	42012 63547	6.2 3.0	y n	n n
	3	18:42	0.24 n	0.42	8006 33490	1.5 2.2	n n	n n
	4	18:51	0.34 n	1.11	21321 62419	3.4 3.0	y n	n n
	5	18:56	0.12 n	0.37	7205 62419	1.2 3.0	n n	n n
	6	19:25	0.39 n	0.43	8323 21277	1.2 1.2	n n	n n

Run Text: L507E-1-AA

Sample text: L507E-1-AA :G0H210471-1

Name: Total PeCDD

F:2 Mass: 355.855 357.852 Mod? no #Hom:10

Run: 11 File: 25AU10A1D5 S:7 Acq:26-AUG-10 02:08:33

Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 8.51 of which 1.11 named and 7.40 unnamed  
 Conc: 17.02 of which 2.23 named and 14.79 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:13	1.39 y	1.48	14042 10111	1.4 1.4	n n	n n
	2	21:33	1.03 n	1.19	11803 11487	1.5 2.5	n n	n n
	3	23:52	2.88 n	4.93	90858 31571	4.2 3.7	y y	n n
1, 2, 3, 7, 8-PeCDD	4	24:14	2.42 n	2.23	34657 14294	2.7 3.0	n n	n n
	5	25:00	0.52 n	0.68	6727	0.9	n	n

						12905	1.4	n	n
6	25:08	1.43	y	1.02	9757	6845	0.8	n	n
							1.6	n	n
7	25:37	1.45	y	1.49	14409	9950	1.2	n	n
							2.1	n	n
8	26:14	0.79	n	0.77	7662	9756	0.9	n	n
							2.0	n	n
9	26:17	1.24	n	1.22	12088	9756	0.9	n	n
							2.0	n	n
10	26:44	1.67	y	2.03	20768		2.2	n	n
							3.0	n	n

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Run Text: L507E-1-AA

Sample text: L507E-1-AA :G0H210471-1

Name: Total HxCDF      F:3    Mass: 373.821 375.818    Mod? no    #Hom:7  
 Run: 11 File: 25AU10A1D5    S:7    Acq:26-AUG-10 02:08:33  
 Tables: Run: 25AU10A1D5 Analyte: TO9      Cal: TO90727101D5 Results: 25AU10A1

Amount:      9.40 of which      4.68 named and      4.71 unnamed  
 Conc:      18.79 of which      9.37 named and      9.43 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?	
	1	27:46	1.91	n	2.26	51005	2.6	n	n
						26699	2.2	n	n
	2	28:06	0.74	n	2.67	39045	3.3	y	n
						53082	4.6	y	n
	3	28:11	0.65	n	2.37	34710	2.4	n	n
						53082	4.6	y	n
1,2,3,4,7,8-HxCDF	4	30:22	1.85	n	5.30	111462	4.5	y	n
						60095	3.4	y	n
1,2,3,6,7,8-HxCDF	5	30:35	1.00	n	2.58	39038	2.9	n	n
						39024	3.9	y	n
2,3,4,6,7,8-HxCDF	6	31:28	2.02	n	1.49	36142	2.3	n	n
						17850	2.4	n	n
	7	32:27	1.16	y	2.12	30080	2.7	n	n
						25877	2.8	n	n

Run Text: L507E-1-AA

Sample text: L507E-1-AA :G0H210471-1

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:6  
 Run: 11 File: 25AU10A1D5 S:7 Acq:26-AUG-10 02:08:33  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 6.79 of which 1.53 named and 5.26 unnamed  
 Conc: 13.58 of which 3.06 named and 10.52 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	29:59	0.55 n	0.87	8240 14988	1.1 1.9	n n	n n
	2	30:05	0.38 n	0.60	5642 14988	0.8 1.9	n n	n n
	3	30:23	2.40 n	2.61	47785 19873	3.1 1.8	y n	n n
	4	30:35	1.54 n	3.57	41874 27211	3.0 1.9	n n	n n
1,2,3,6,7,8-HxCDD	5	31:49	1.07 y	3.06	26553 24791	2.4 2.9	n n	n n
	6	32:21	1.21 y	2.88	27005 22247	2.8 1.5	n n	n n

Run Text: L507E-1-AA

Sample text: L507E-1-AA :G0H210471-1

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4  
 Run: 11 File: 25AU10A1D5 S:7 Acq:26-AUG-10 02:08:33  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 16.94 of which 14.22 named and 2.73 unnamed  
 Conc: 33.89 of which 28.43 named and 5.45 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:59	1.11 y	22.66	272541 244648	21.9 20.5	y y	n n
	2	34:10	1.38 n	2.76	40086 29028	3.2 2.6	y n	n n
	3	34:17	2.60 n	2.69	73718 28310	4.0 2.7	y n	n n
1,2,3,4,7,8,9-HpCDF	4	35:12	1.04 y	5.78	59033 56891	4.9 4.2	y y	n n

Run Text: L507E-1-AA

Sample text: L507E-1-AA :G0H210471-1

Name: Total HpCDD

F:4 Mass: 423.777 425.774 Mod? no #Hom:4

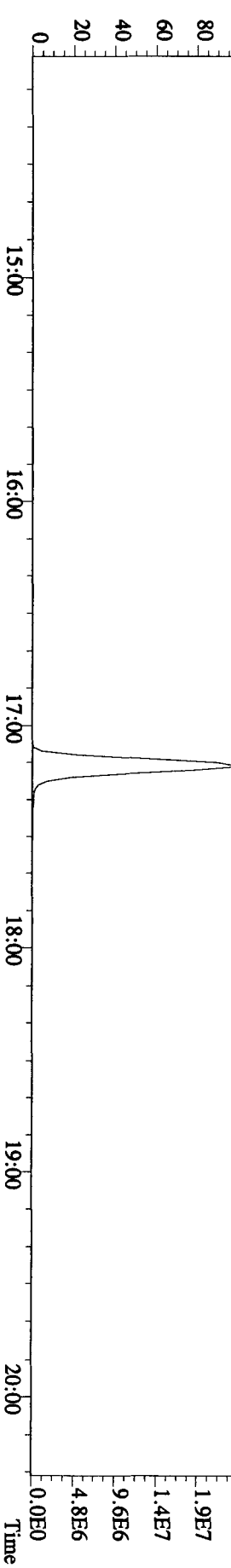
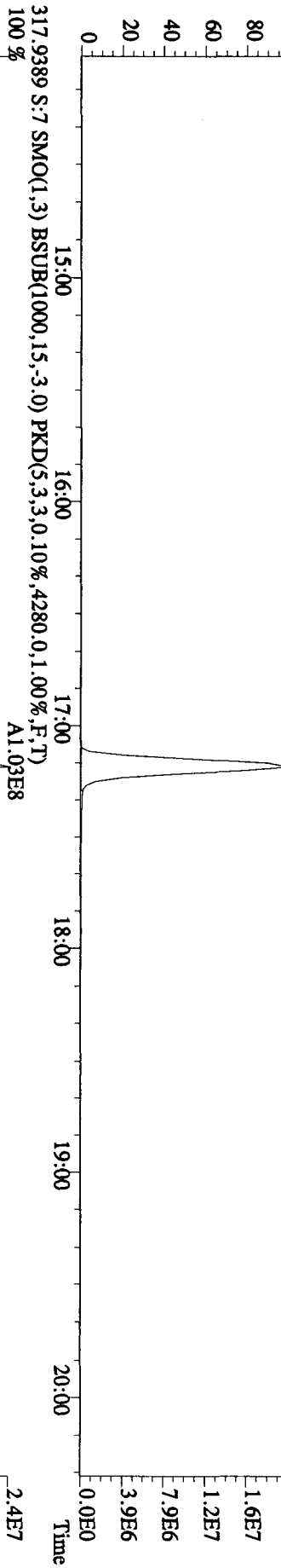
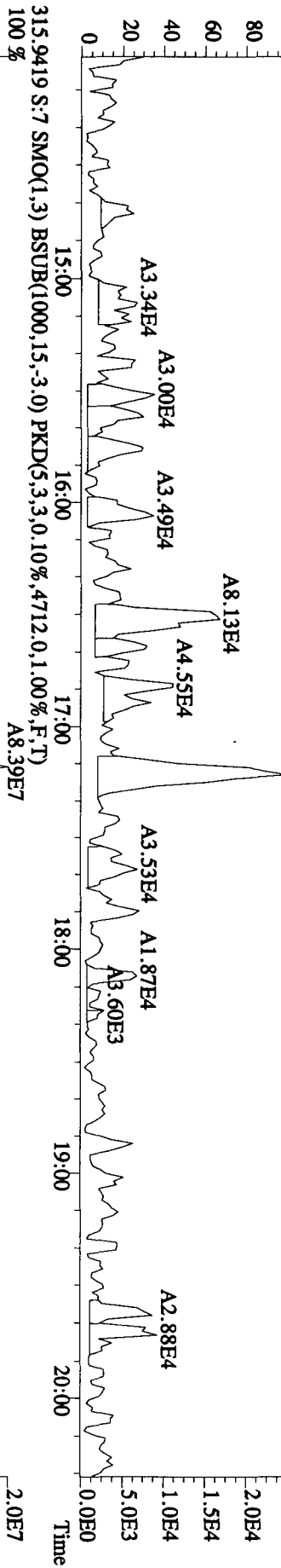
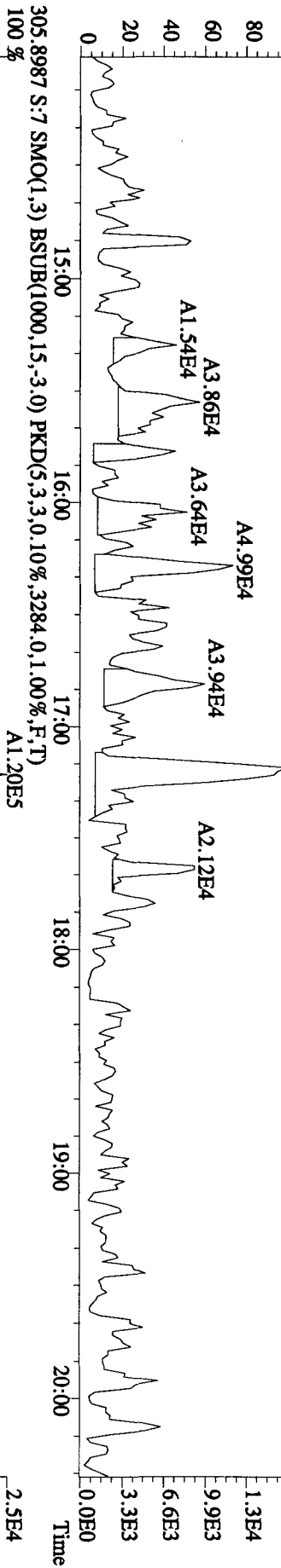
Run: 11 File: 25AU10A1D5 S:7 Acq:26-AUG-10 02:08:33

Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

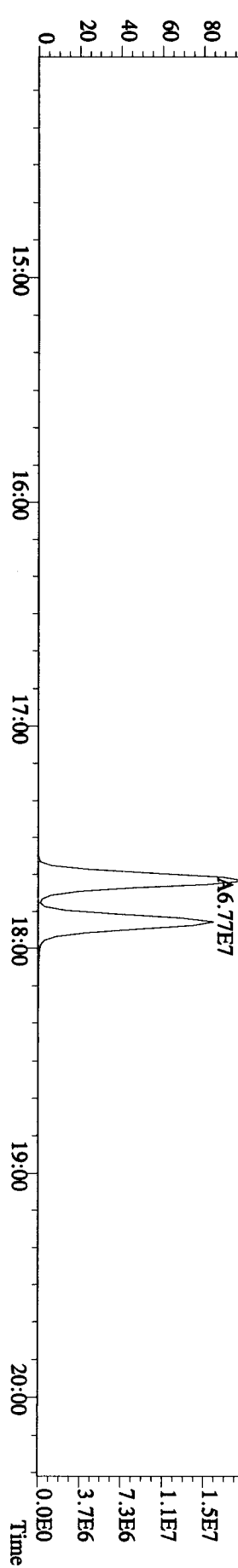
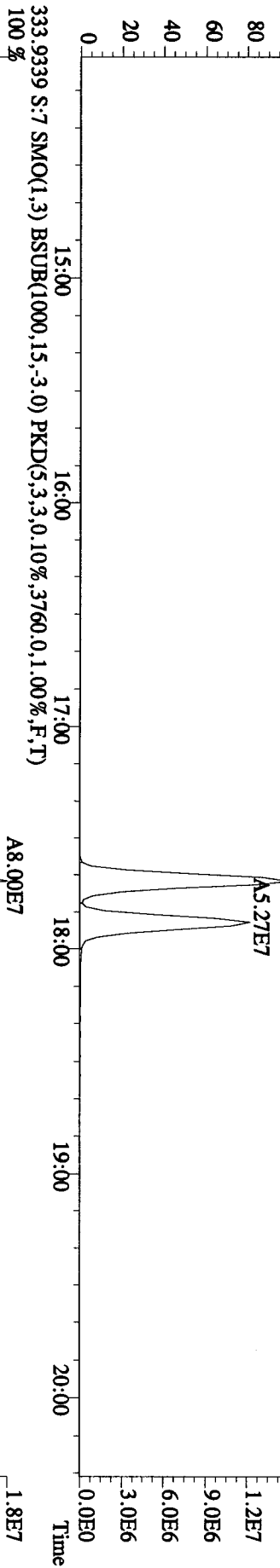
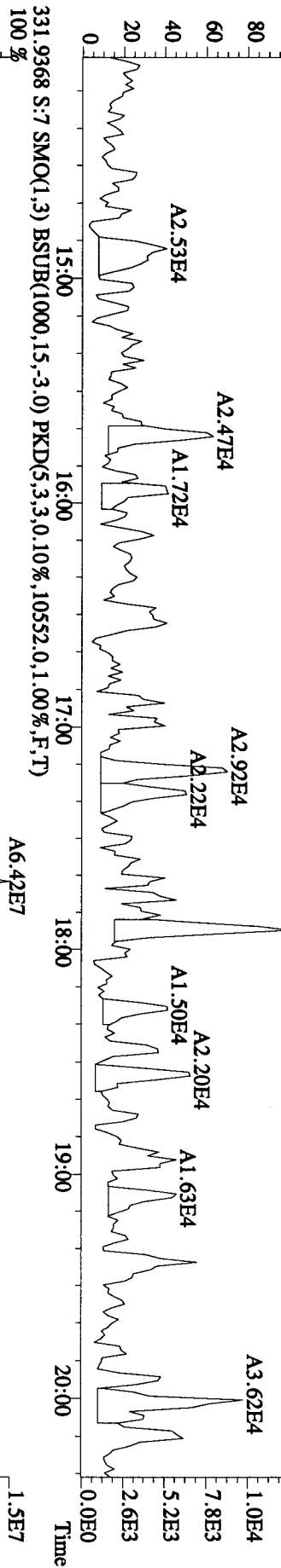
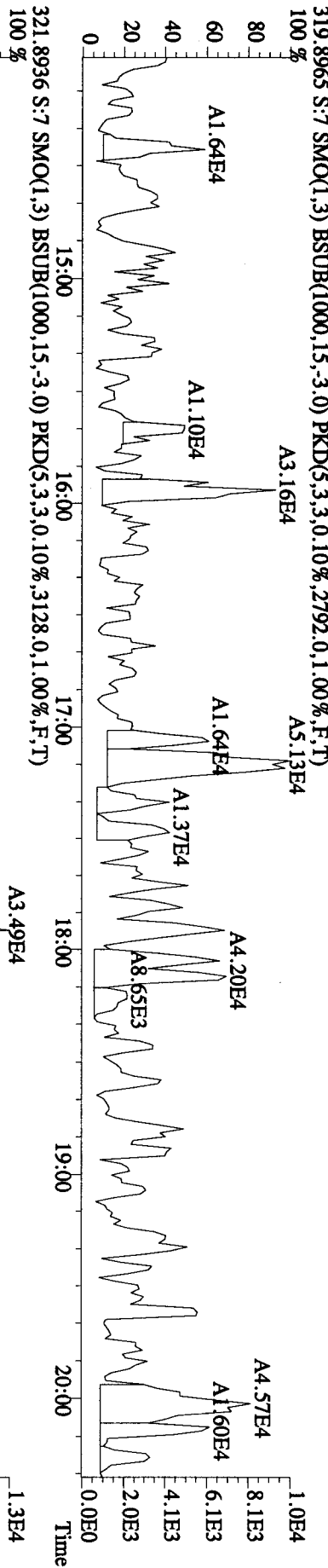
Amount: 7.66 of which 2.90 named and 4.76 unnamed  
 Conc: 15.32 of which 5.80 named and 9.52 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	34:15	0.70	n	4.87	34002	4.7	y n
						48413	5.4	y n
1,2,3,4,6,7,8-HpCDD	2	34:53	0.93	y	5.80	38236	5.0	y n
						41107	4.9	y n
	3	35:02	0.70	n	2.92	20358	2.6	n n
						28947	2.7	n n
	4	36:15	1.53	n	1.73	17815	1.6	n n
						11610	1.3	n n

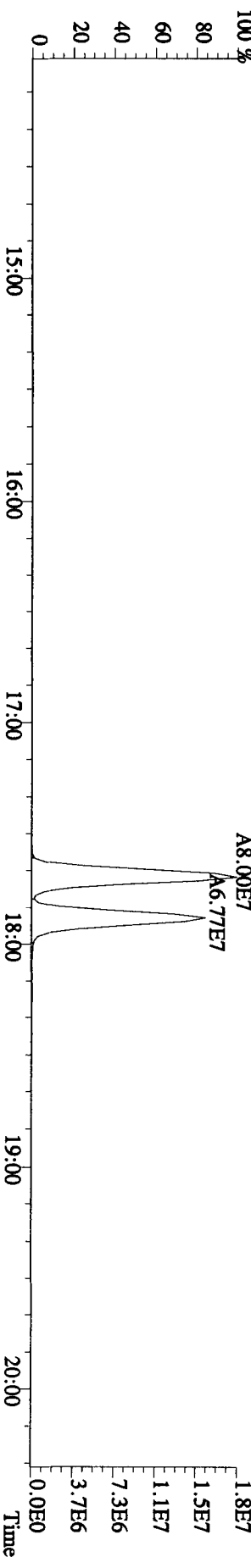
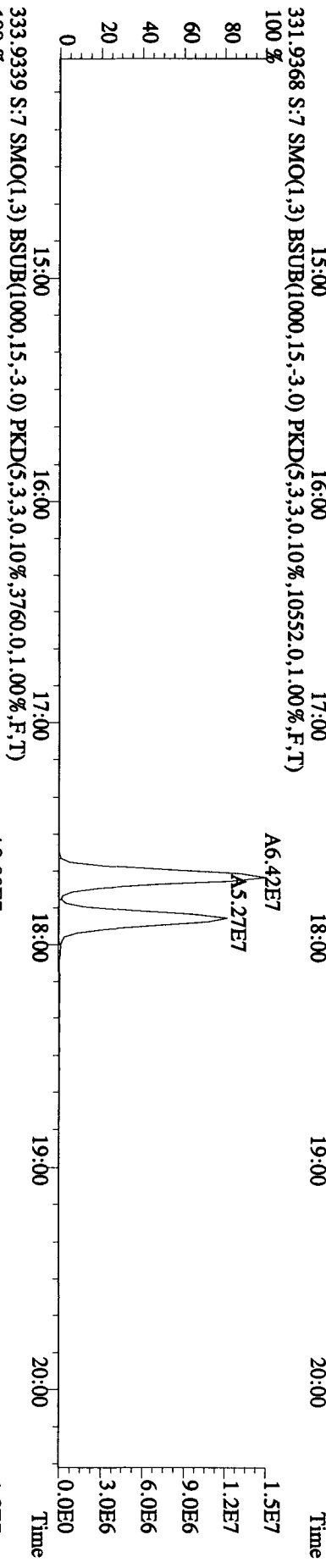
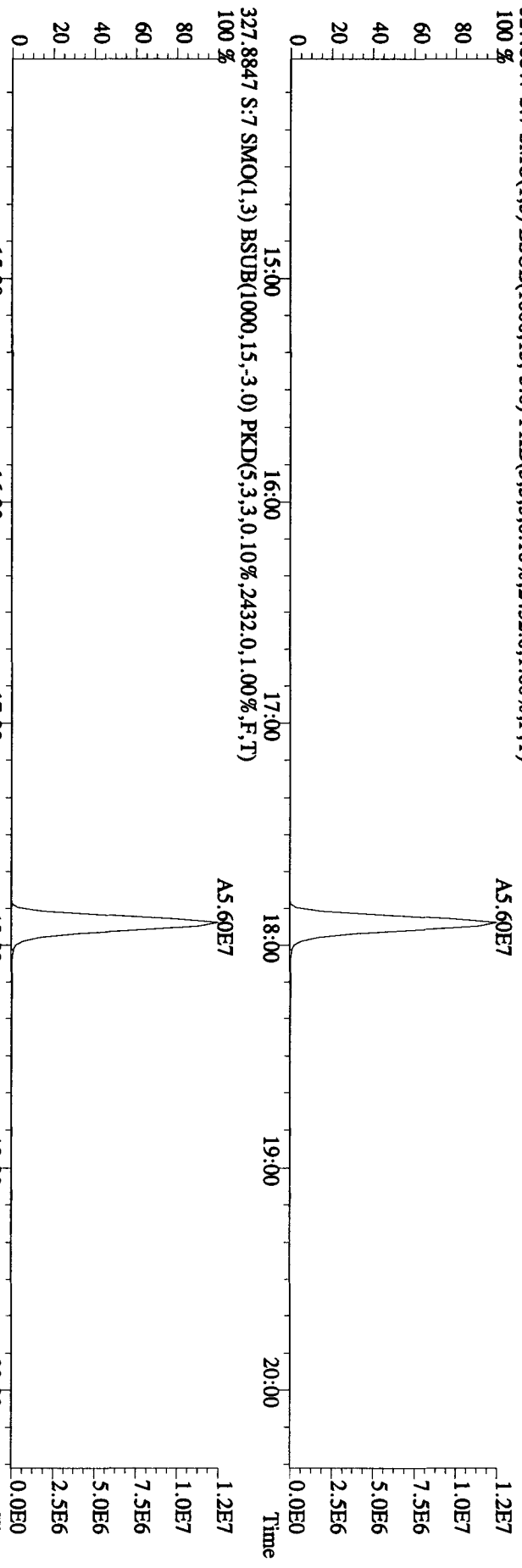
File:25AU10A1D5 #1-373 Acq:26 AUG-2010 02:08:33 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:1507E-1-AA :G0H210471-1 Exp:DIOXINRES  
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3332.0,1.00%,F,T)  
 100 %



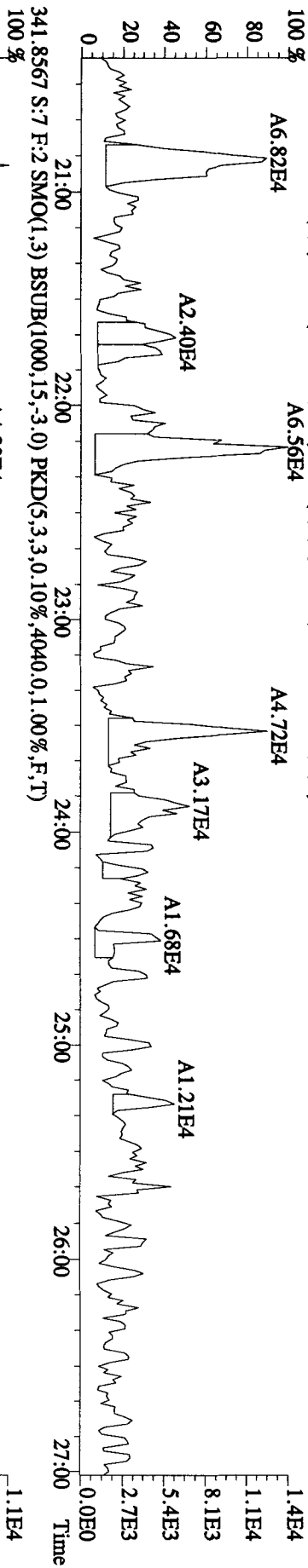
File:25AU10AID5 #1-373 Acq:26-AUG-2010 02:08:33 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:L507E-1-AA :G0H210471-1 Exp:DIOXINRES  
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2792.0,1.00%,F,T)



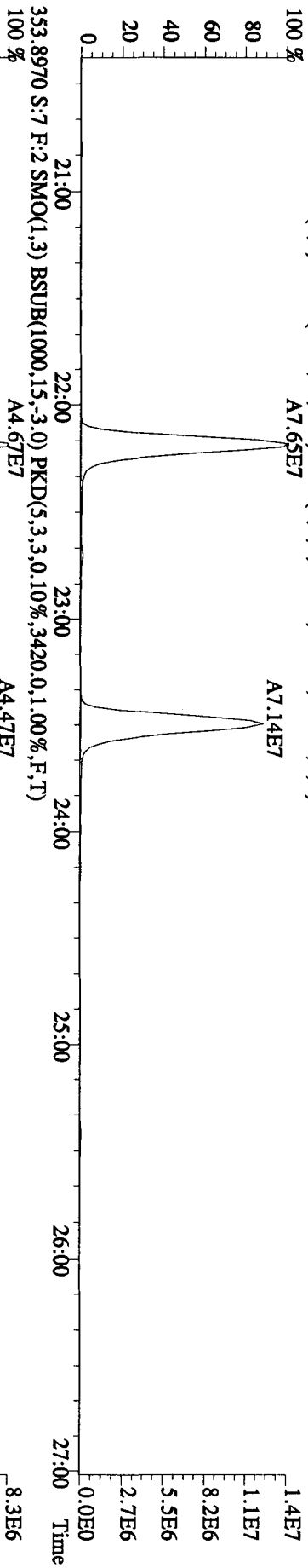
File:25AU10A1D5 #1-373 Acq:26-AUG-2010 02:08:33 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:L507E-1-AA :G0H210471-1 Exp:DIOXINES  
 327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2432.0,1.00%,F,T)  
 100%



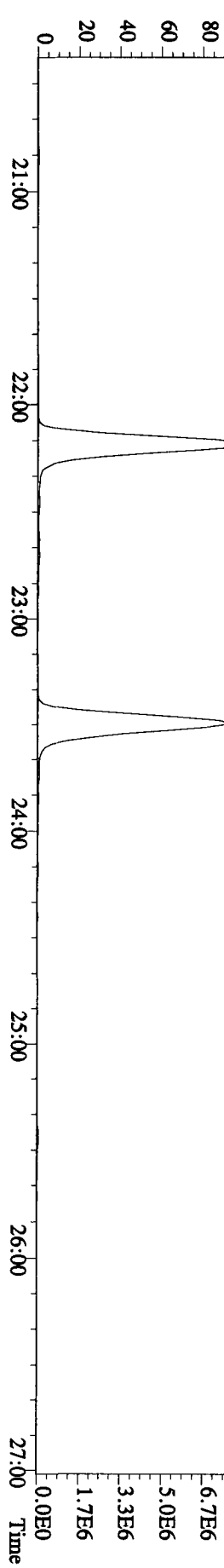
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2996,0,1,00%,F,T)  
100%



351.9900 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3600,0,1,00%,F,T)  
100%

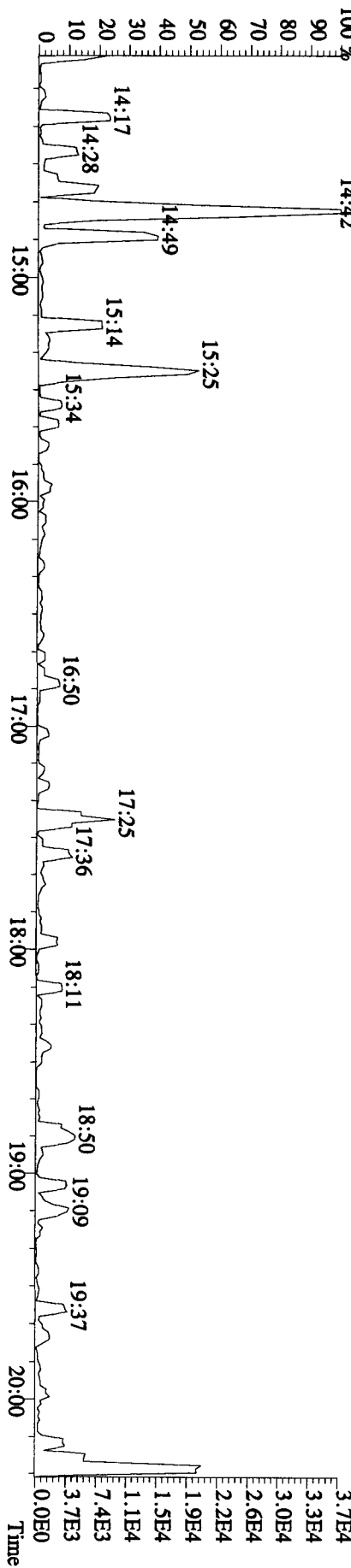
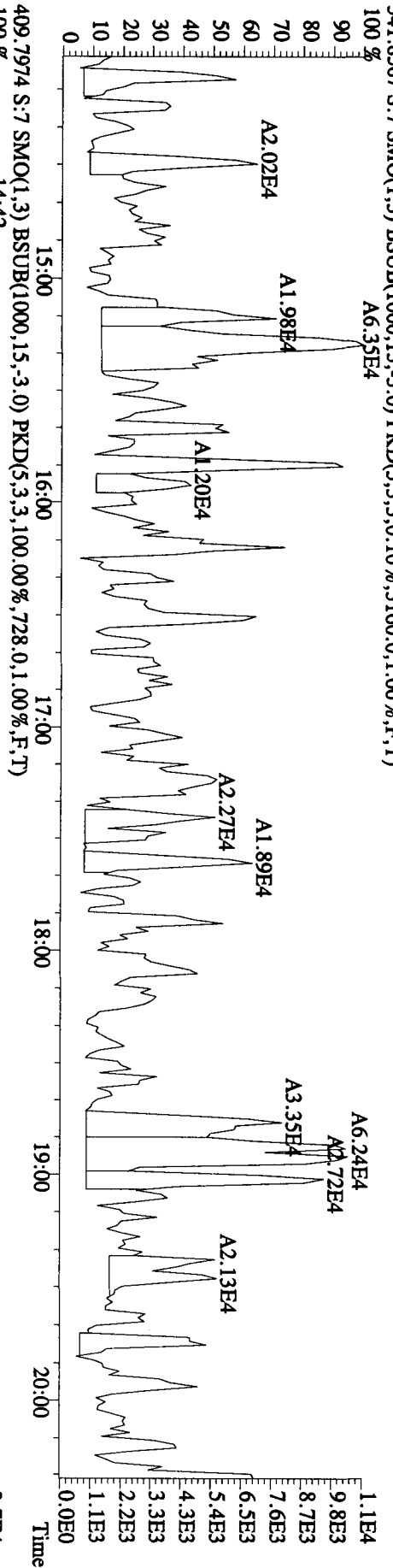
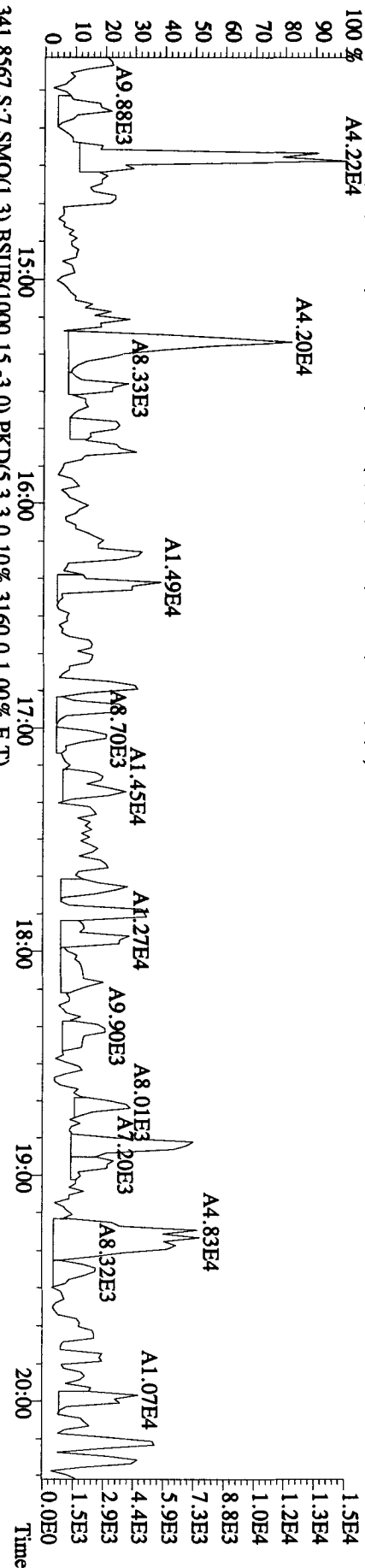


353.8970 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3420,0,1,00%,F,T)  
100%

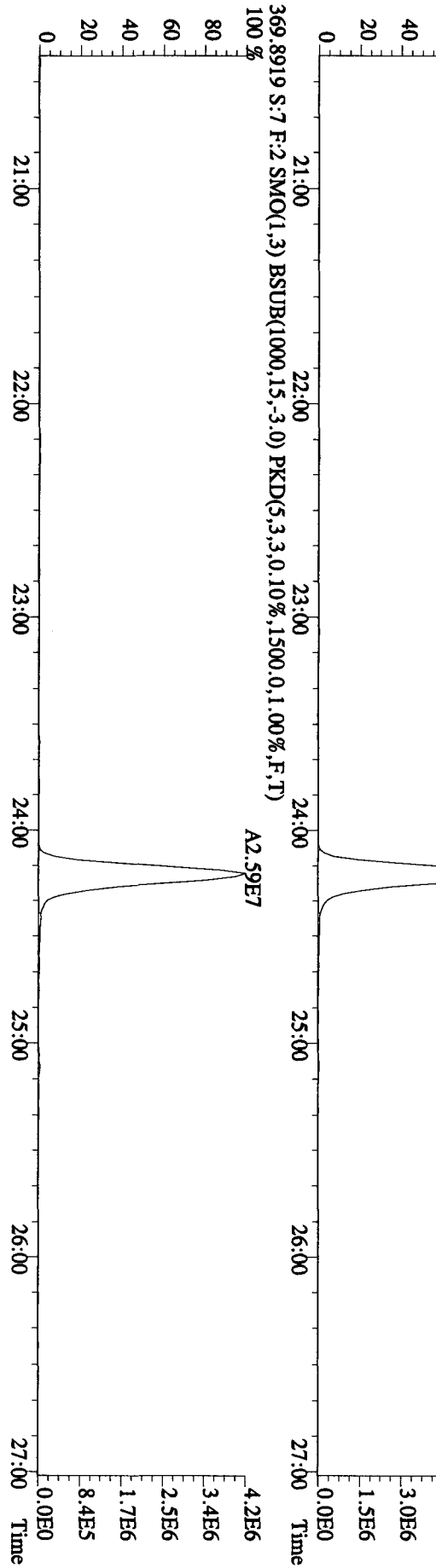
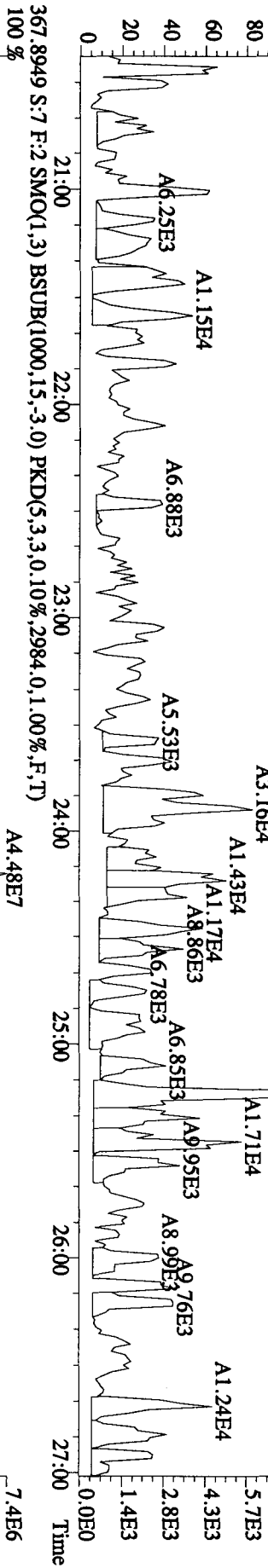
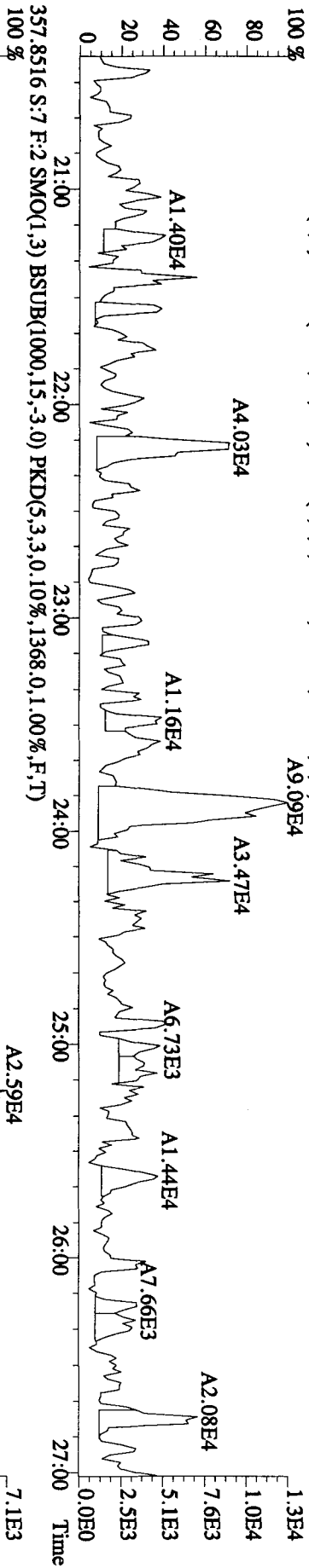




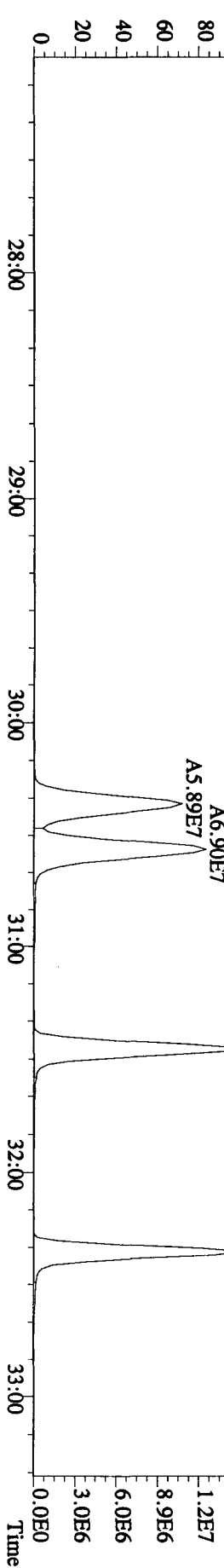
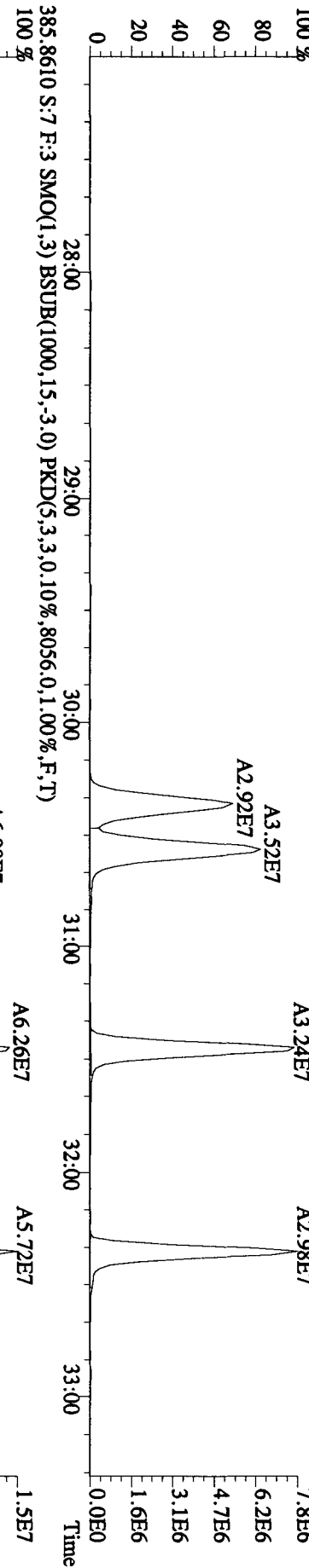
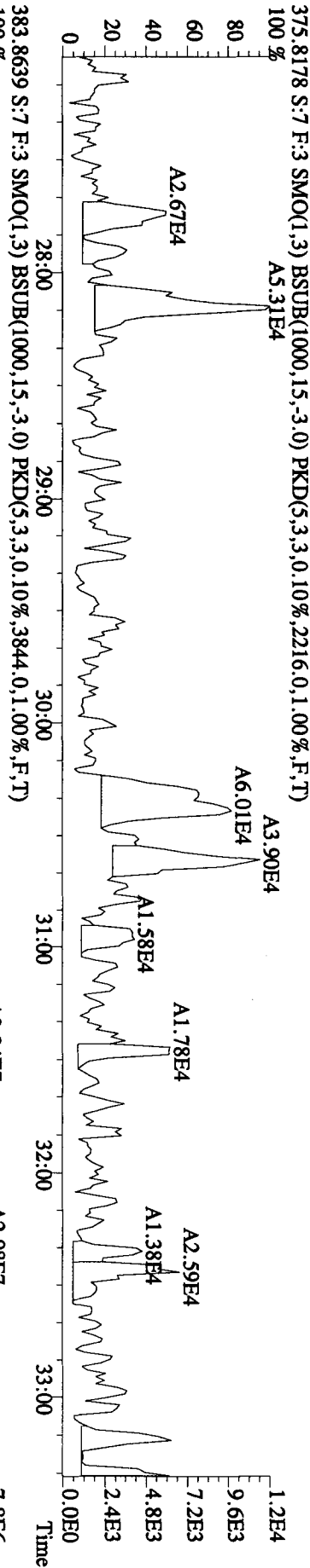
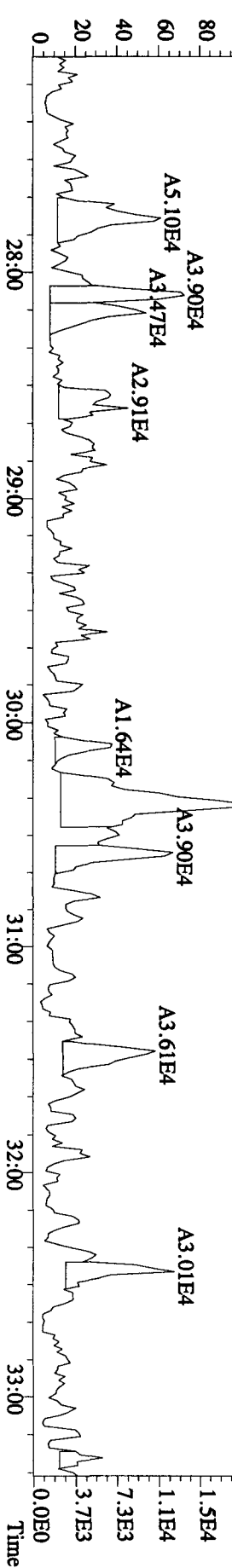
File:25AU10A1D5 #1-373 Acq:26-AUG-2010 02:08:33 GC EI + Voltage SIR 70SE  
 Sample#7 Text:L507E-1-AA :G0H210471-1 Exp:DIOXINES  
 339.8597 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1760.0,1.00%,F,T)  
 100% A4.22E4



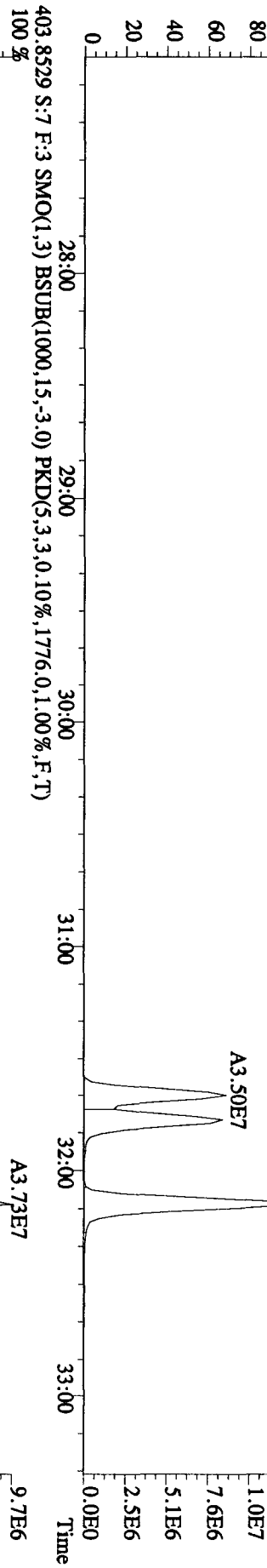
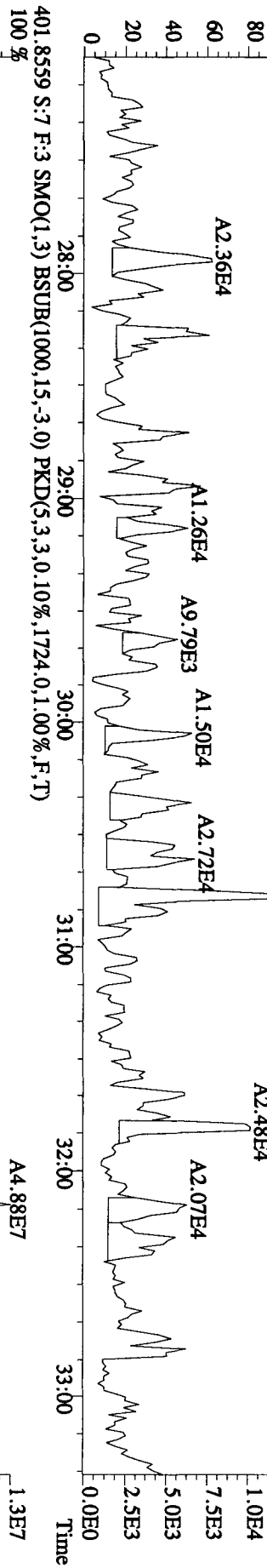
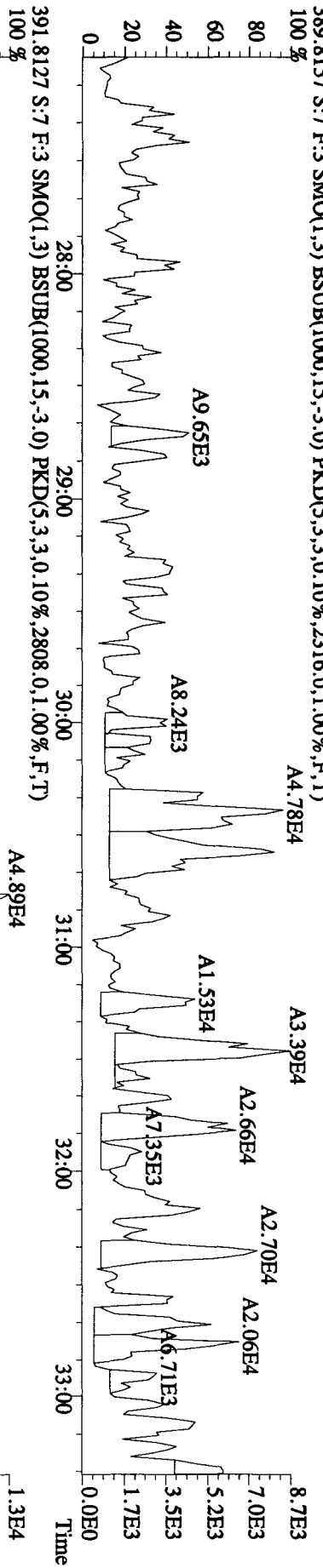
Sample#7 Text:L507E-1-AA :G0H210471-1  
355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2792,0,1,00%,F,T)



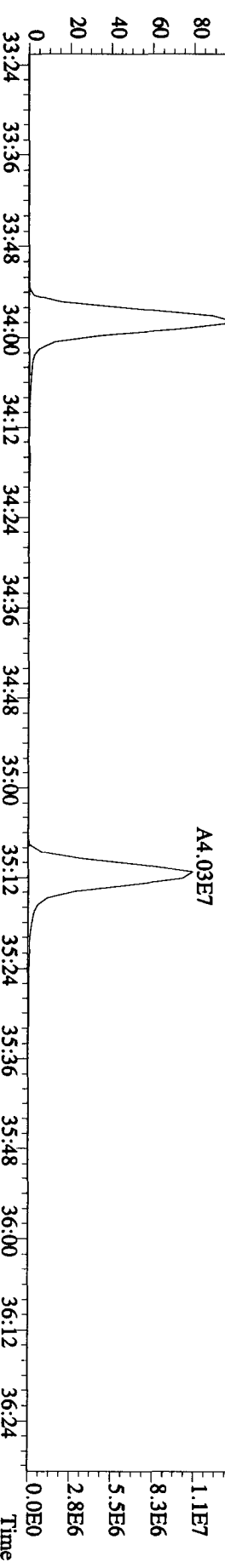
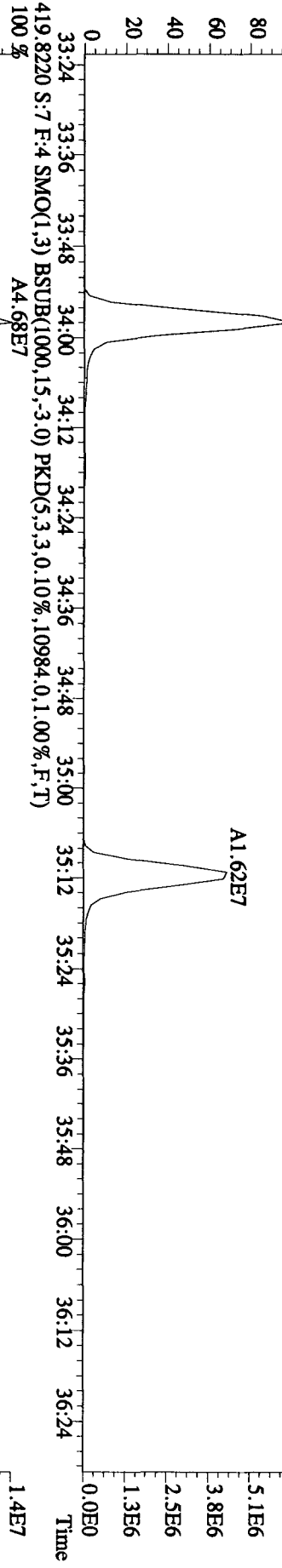
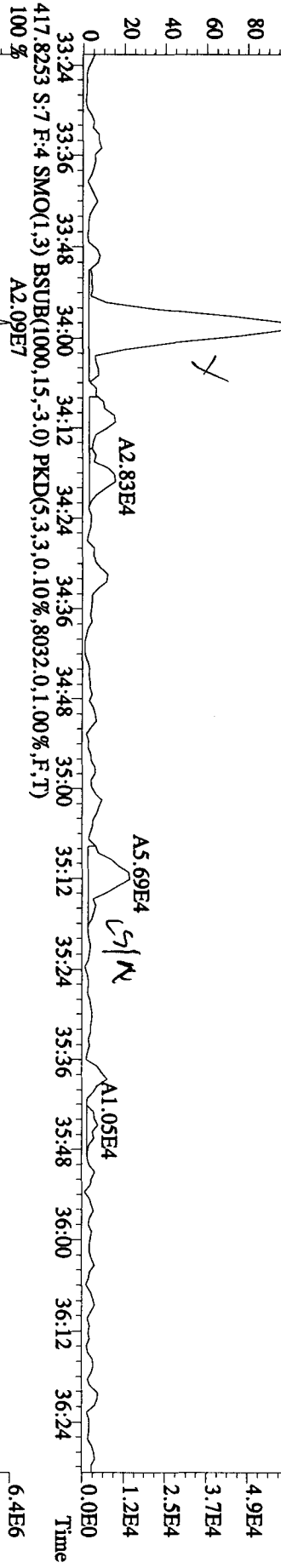
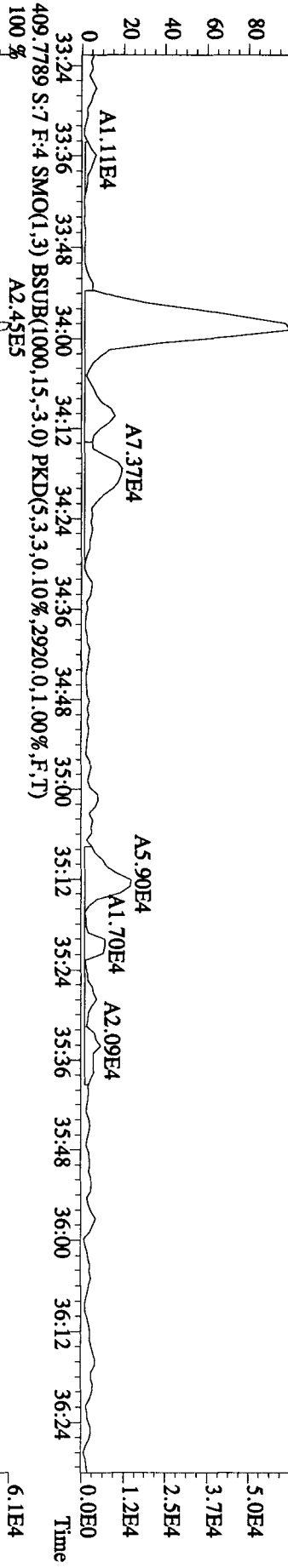
Sample#7 Text:L507E-1-AA :G0H210471-1  
373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.3520,0,1,00%,F,T)

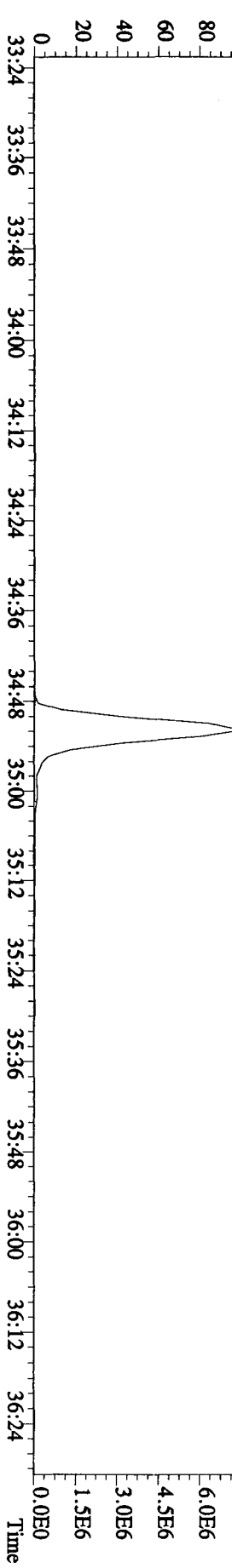
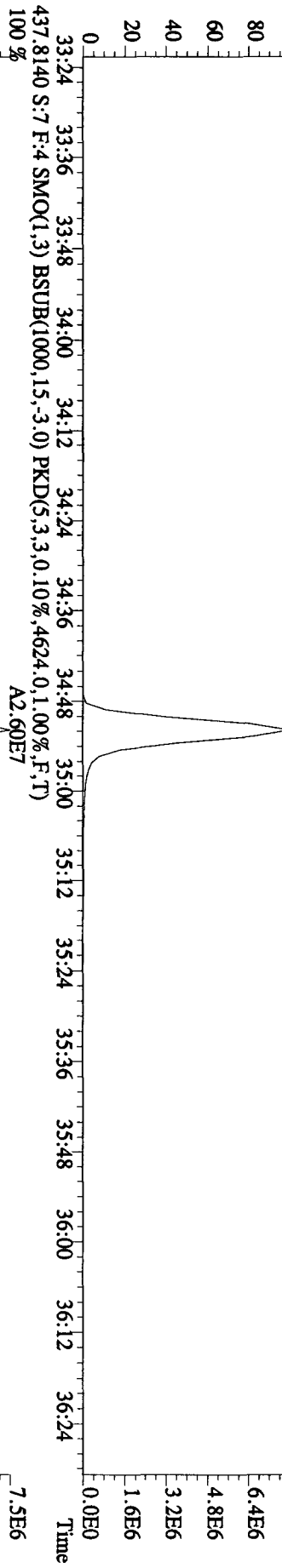
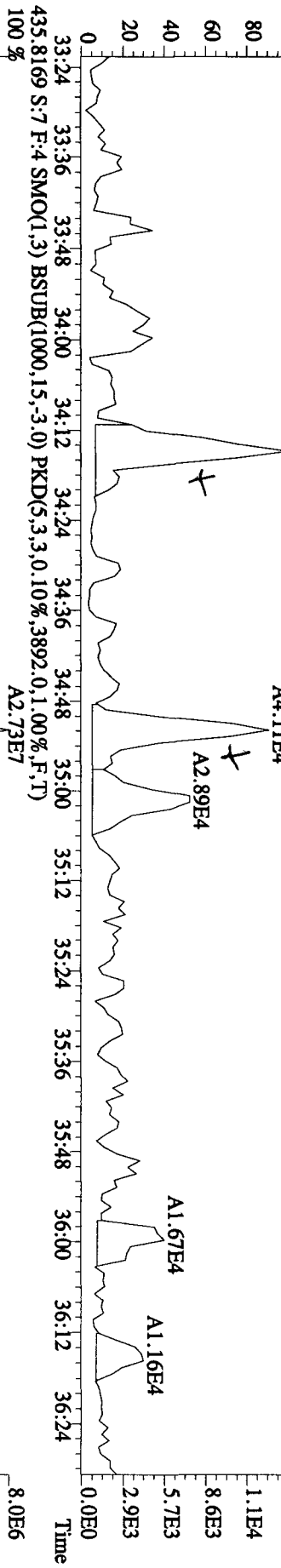
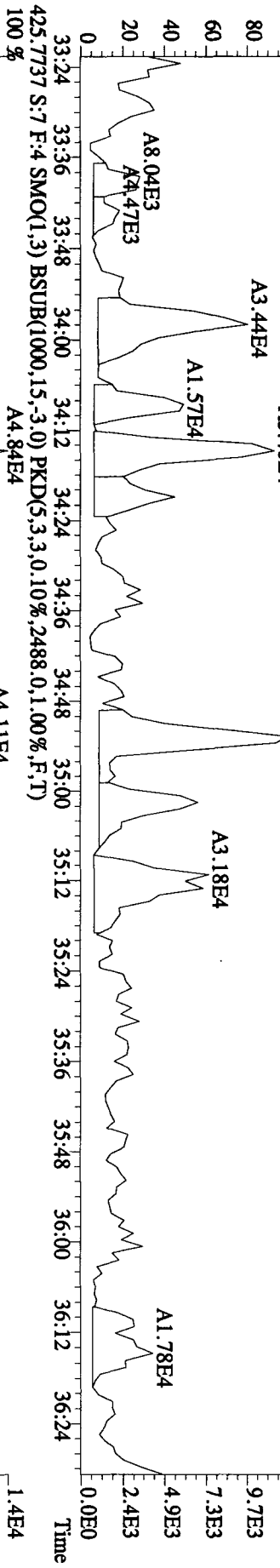


Sample#7 Text:1.507E-1-AA :G0H210471-1  
389.8157 S:7 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2316,0,1,00%,F,T)



407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2804,0,1,00%,F,T)

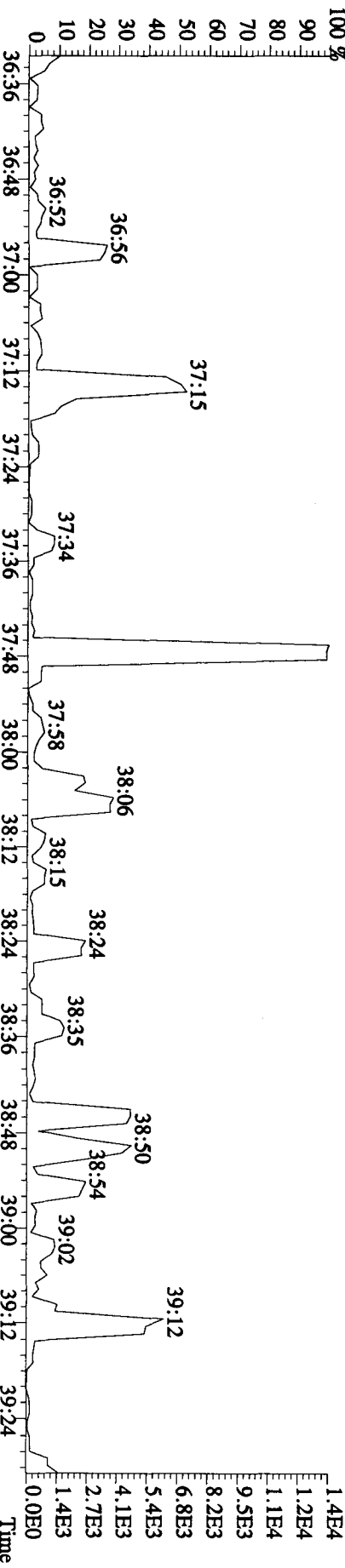
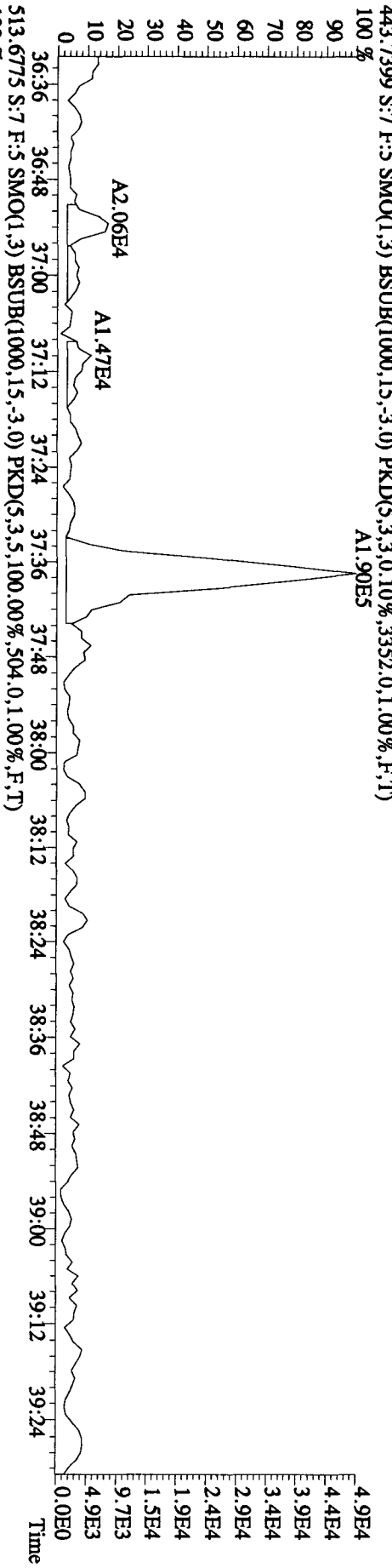
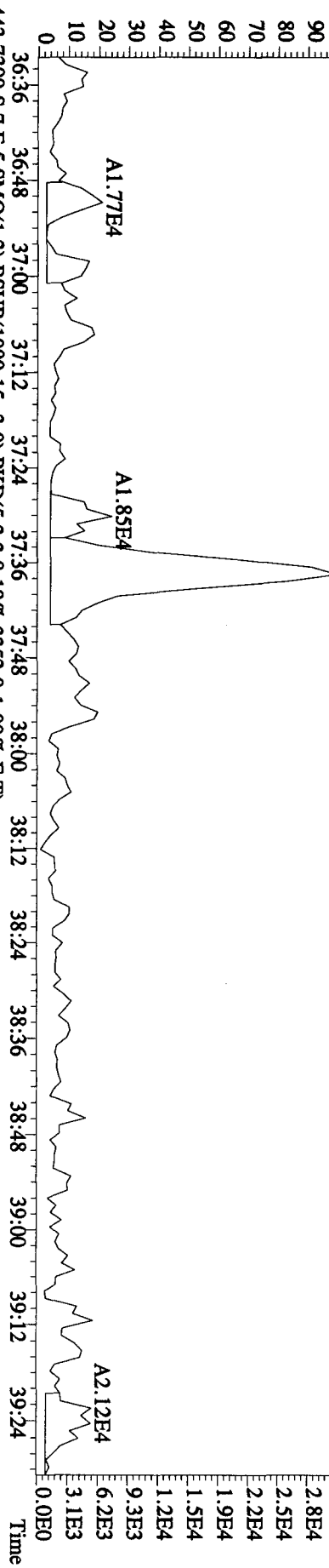




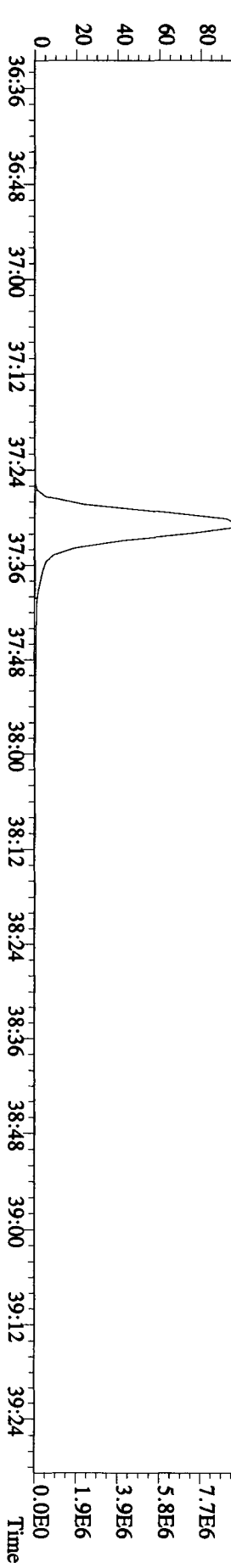
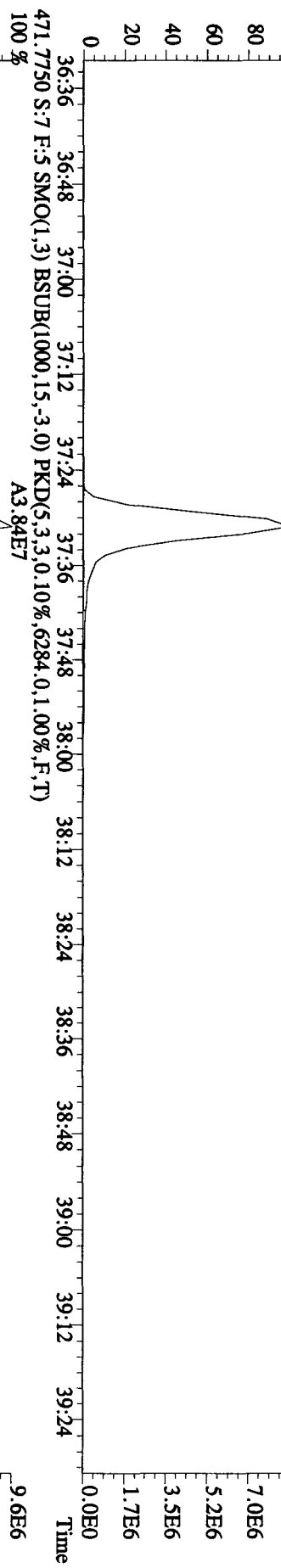
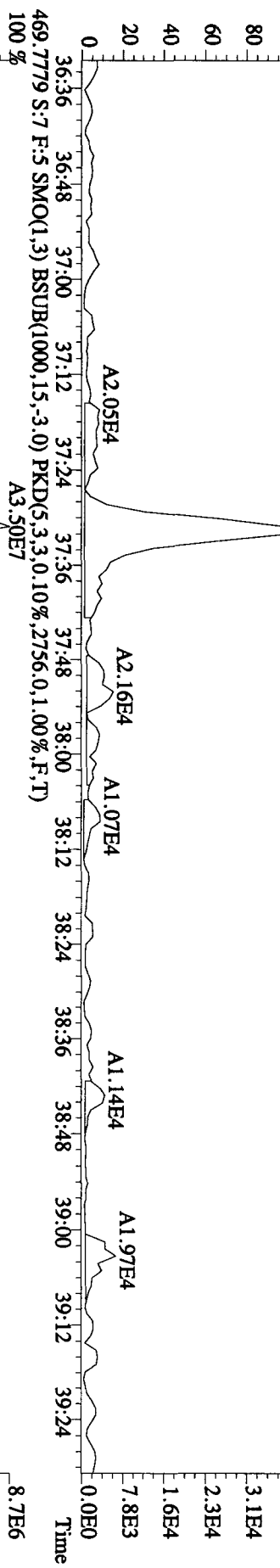
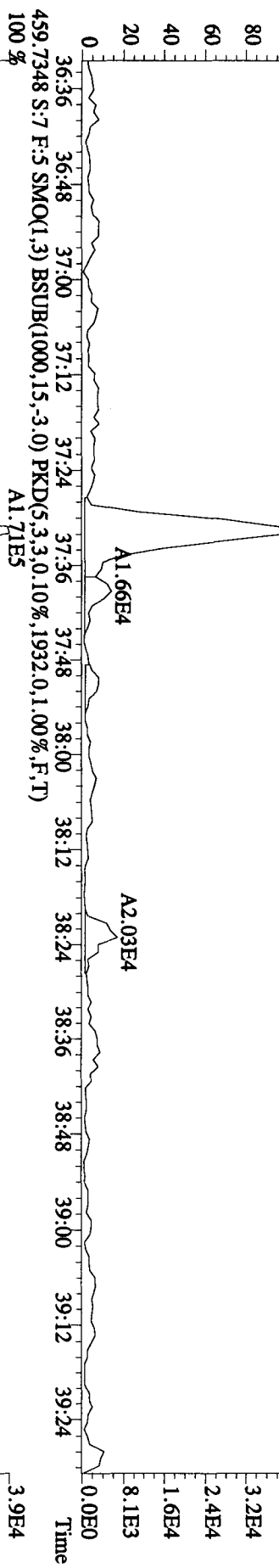
File:25AU10A1D5 #1-196 Acq:26-AUG-2010 02:08:33 GC EI+ Voltage SIR 70SE

Exp:DIOXINRES

Sample#7 Text:L507E-1-AA :G0H210471-1  
441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,2796.0,1.00%,F,T)

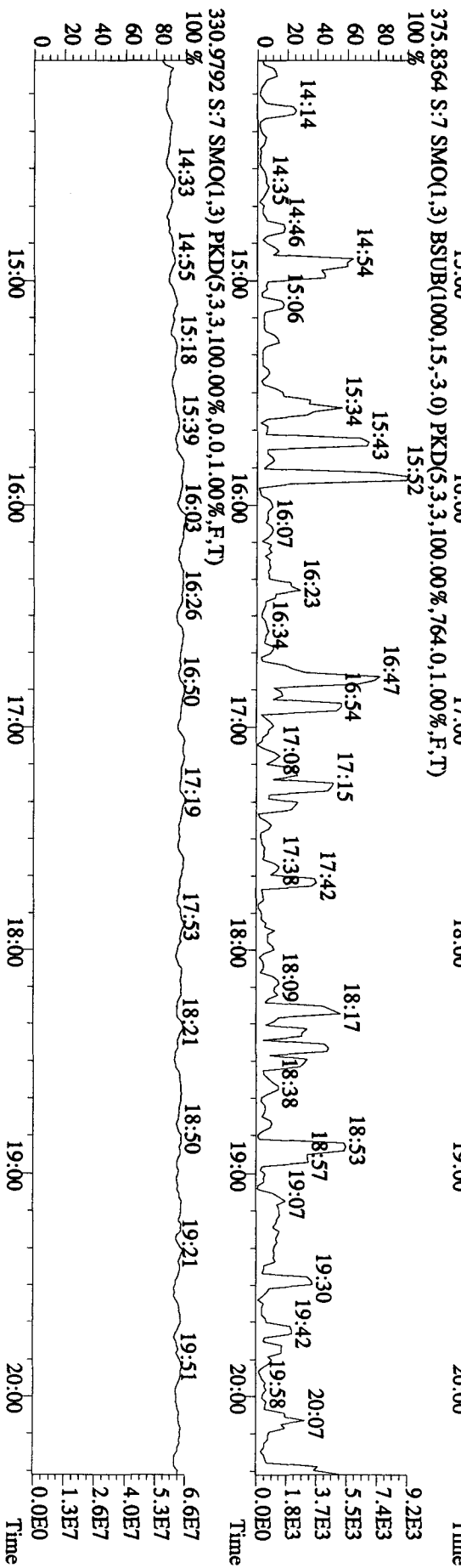
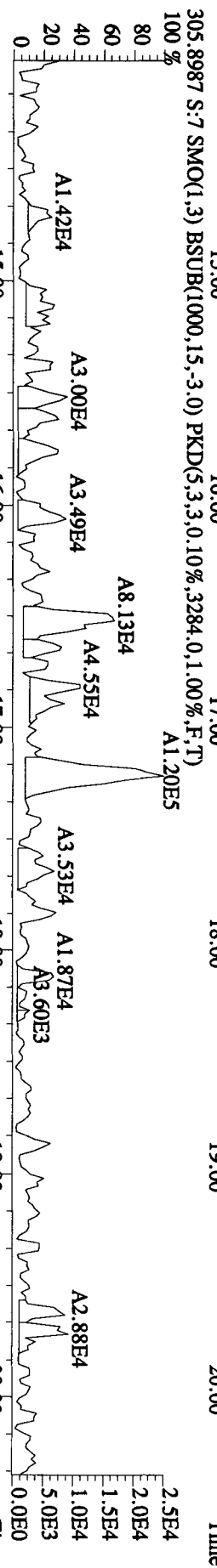
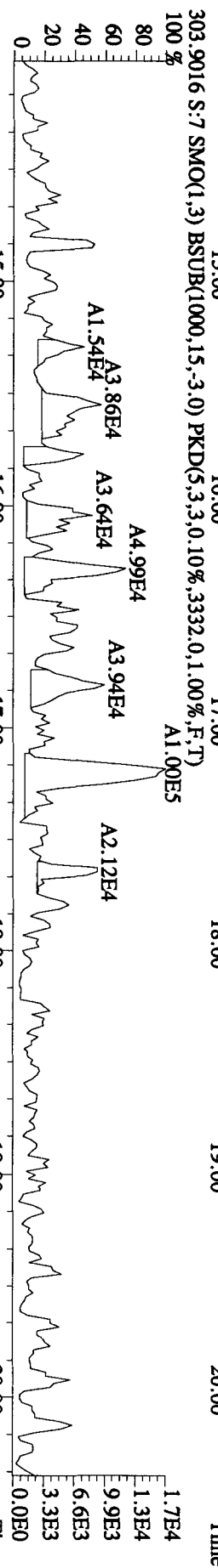
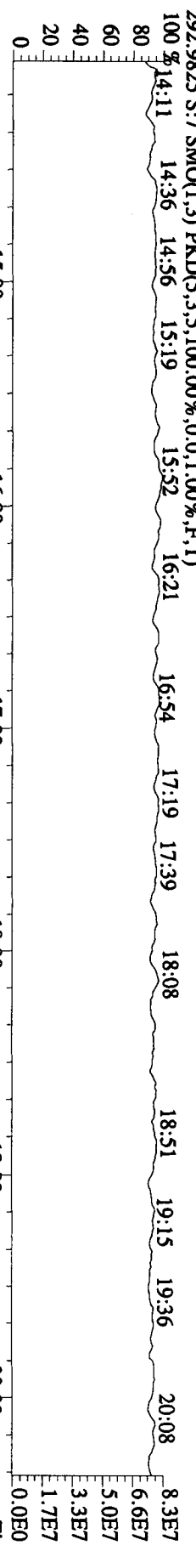


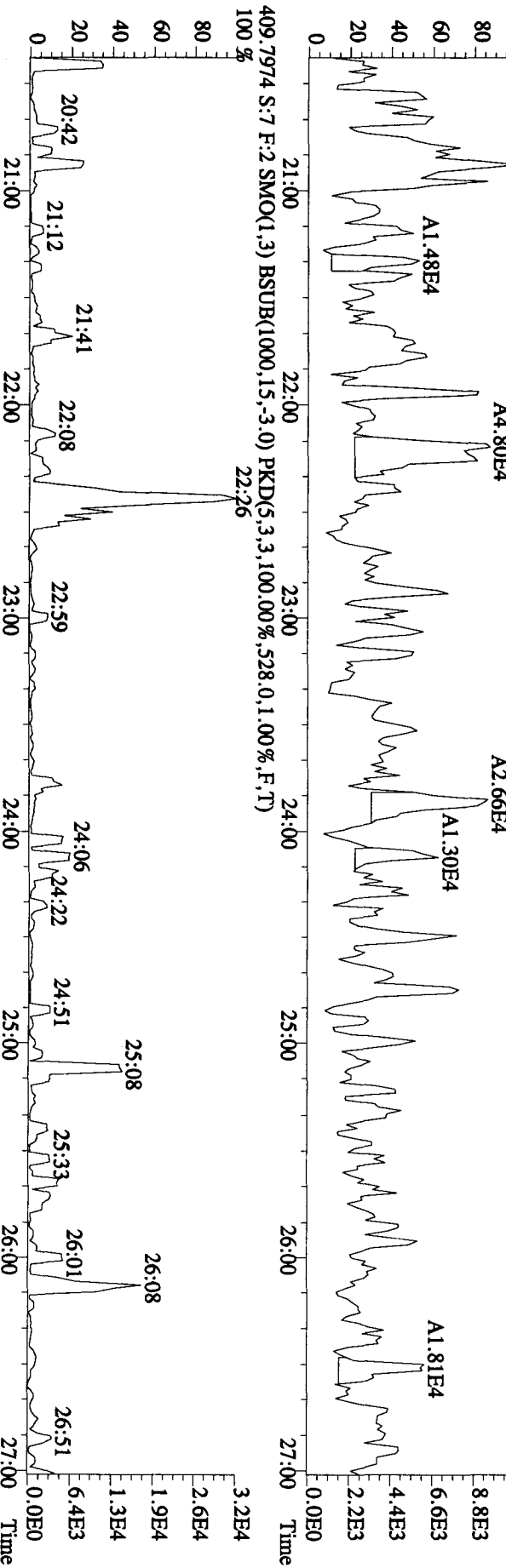
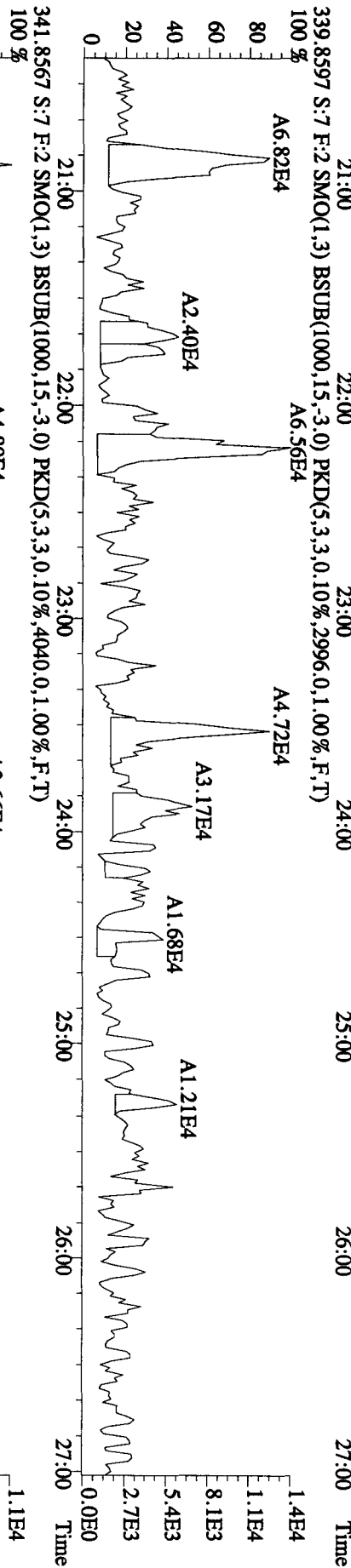
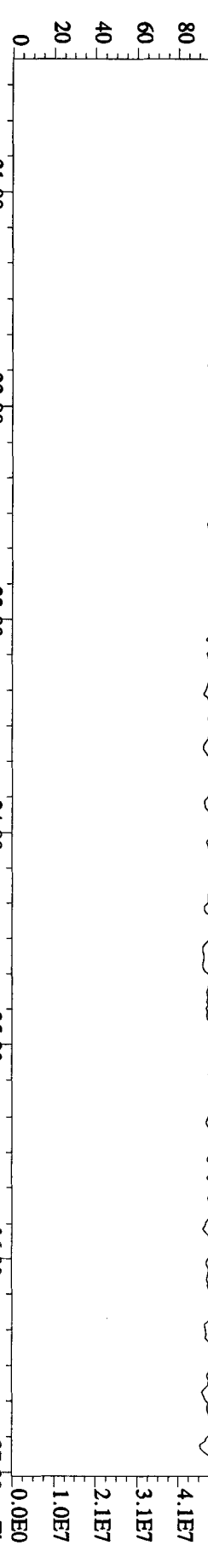
File:25AU10A1IDS #1-196 Acq:26-AUG-2010 02:08:33 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:L507E-1-AA :G0H210471-1 Exp.:DIOXINES  
 457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2204,0,1,00%,F,T)  
 100%





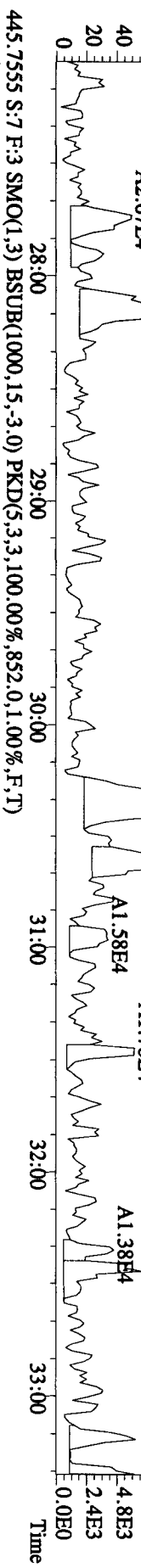
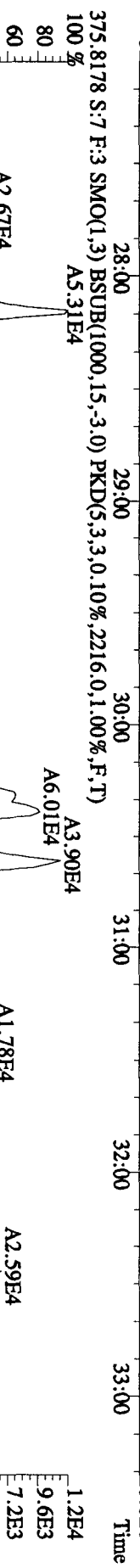
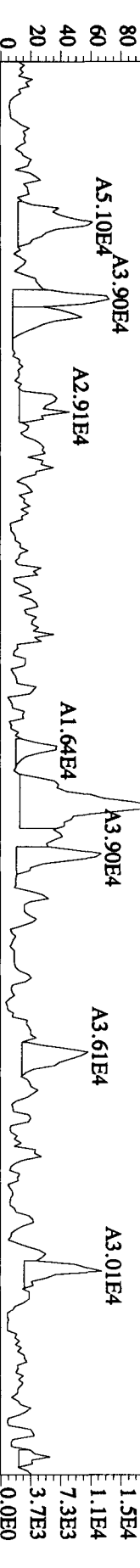
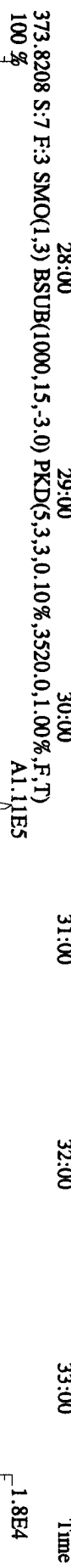
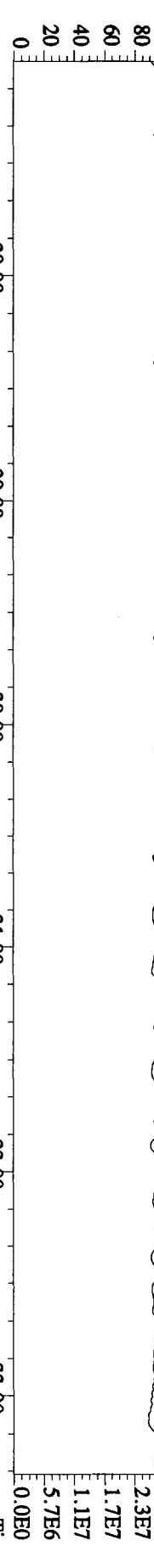
File:25AU10A1D5 #1-373 Acq:26-AUG-2010 02:08:33 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:L507E-1-AA :G0H210471-1 Exp:DIOXINES



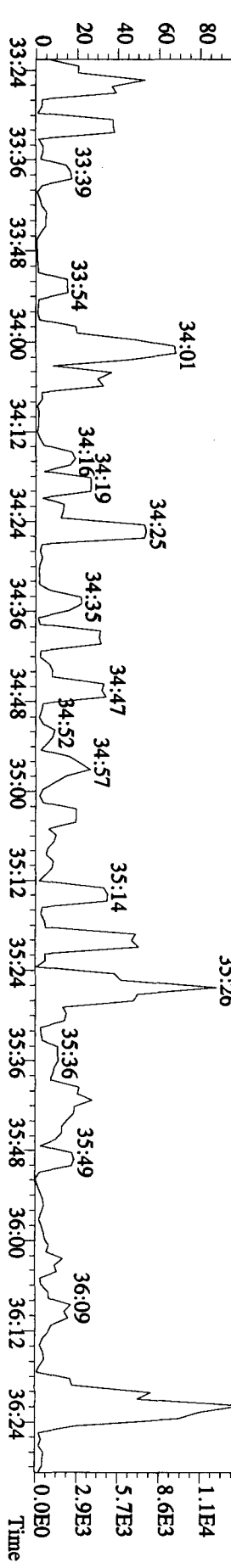
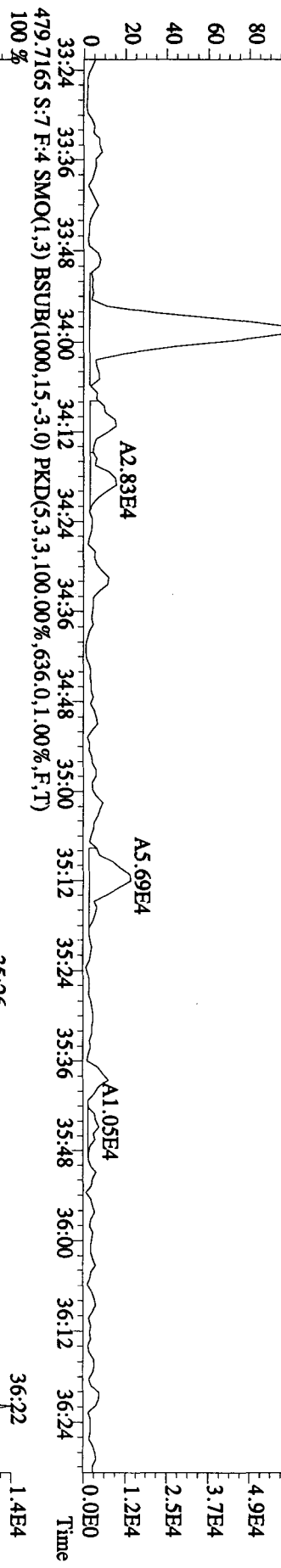
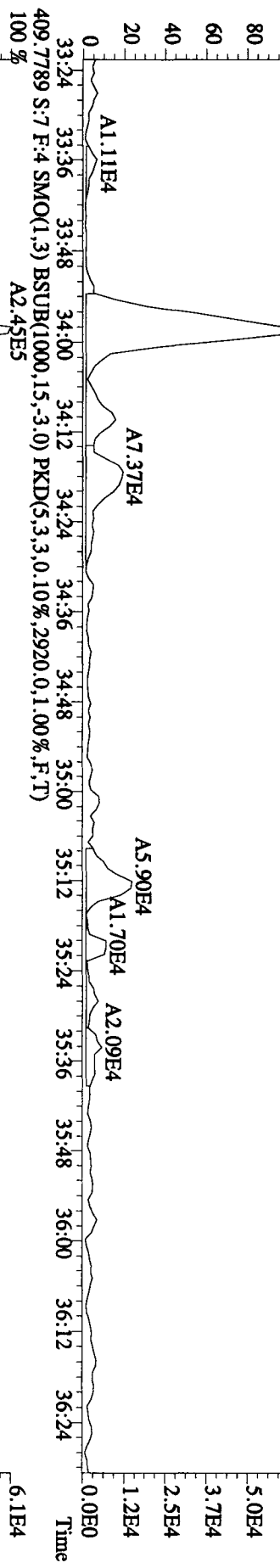
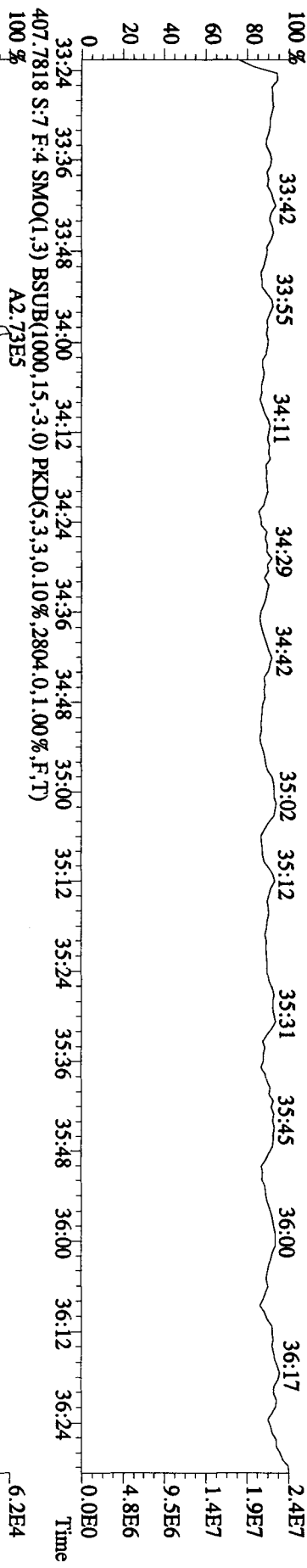


File:25AU10A1D5 #1-406 Acq:26-AUG-2010 02:08:33 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:L507E-1-AA :G0H210471-1 Exp:DIOXINRES

392.9760 S:7 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 %27:13 27:44 28:13 28:41 29:03 29:26 29:55 30:28 30:58 31:25 31:58 32:28 32:55



File:25AU10A1D5 #1-214 Acq:26-AUG-2010 02:08:33 GC EI+ Voltage SIR 70SE  
 Sample#7 Text:L507E-1-AA :G0H210471-1 Exp:DIOXINRES  
 430.9728 S:7 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2804,0,1,00%,F,T)  
 479.7165 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,636,0,1,00%,F,T)



File:25AU10A1ID5 #1-196 Acq:26-AUG-2010 02:08:33 GC EI+ Voltage SIR 70SE

Sample#7 Text:L507E-1-AA :G0H210471-1 Exp.:DIOXINRES

454.9728 S:7 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

100 % 36:48 37:01 37:15 37:27 37:45 38:06 38:20 38:30 38:43 38:58 39:12 39:28

1.9E7 1.7E7 1.5E7 1.3E7 1.1E7 9.3E6 7.4E6 5.6E6 3.7E6 1.9E6 0.0E0

442.9728 S:7 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

100 % 36:49 36:58 37:16 37:30 37:41 38:01 38:18 38:28 38:42 38:57 39:07 39:15 39:30

2.0E7 1.8E7 1.6E7 1.4E7 1.2E7 1.0E7 8.0E6 6.0E6 4.0E6 2.0E6 0.0E0

36:36 36:48 37:00 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 39:12 39:24

Time

Run text: L507F-1-AA Sample text: L507F-1-AA :G0H210471-2  
 Run #12 Filename: 25AU10A1D5 S: 8 I: 1 Results: 25AU10A1D5T09  
 Acquired: 26-AUG-10 02:52:30 Processed: 26-AUG-10 15:08:23  
 Run: 25AU10A1D5 Analyte: T09 Cal: T090727101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

AK  
8/27/10  
SUSAN/A

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	129728000	0.82 y	17:43	-	68.92	-	-	n
13C-2,3,7,8-TCDF	156975600	0.79 y	17:12	1.56	3099.30	1.17	77.5	n
2,3,7,8-TCDF	942774	0.73 y	17:14	0.87	27.46 <del>see 08225</del>	2.85	-	n
Total TCDF	4944744	0.77 y	14:47	0.87	144.00 <del>135.85</del>	2.85	-	n
13C-2,3,7,8-TCDD	103387000	0.78 y	17:55	0.94	3408.22	5.73	85.2	n
2,3,7,8-TCDD	*	* n	NotFnd	0.96	*	2.73	-	n
Total TCDD	200666	0.70 y	15:58	0.96	8.114,91 DL	2.73	-	n
37Cl-2,3,7,8-TCDD	97483000	1.00 y	17:56	1.22	3101.07	1.64	193.8	n
13C-1,2,3,7,8-PeCDF	109041300	1.62 y	22:13	1.06	3166.03	4.36	79.2	n
1,2,3,7,8-PeCDF	453813	1.54 y	22:13	1.08	15.42 J	4.34	-	n
2,3,4,7,8-PeCDF	154997	2.18 n	23:32	0.98	5.80 DL CS/N	4.78	-	n
Total F2 PeCDF	2128111	1.71 y	20:41	1.03	75.32 <del>48187</del>	4.55	-	n
Total F1 PeCDF	243874	1.61 y	15:16	1.03	8.68 <del>01.37</del>	4.05	-	n
13C-1,2,3,7,8-PeCDD	60674800	1.72 y	24:15	0.65	2895.10	2.63	72.4	n
1,2,3,7,8-PeCDD	27550	2.01 n	24:20	0.92	1.96	6.04	-	n
Total PeCDD	361657	1.52 y	21:07	0.92	25.78	6.04	-	n
13C-1,2,3,7,8,9-HxCDD	75006600	1.25 y	32:10	-	52.77	-	-	n
13C-1,2,3,4,7,8-HxCDF	75277300	0.48 y	30:23	0.99	4071.16	2.92	101.8	n
1,2,3,4,7,8-HxCDF	714724	1.14 y	30:25	1.15,23	30.79 <del>32.92 J</del>	4.32	-	n
1,2,3,6,7,8-HxCDF	458214	1.17 y	30:36	1.24	19.59 J <del>see NCM</del>	4.01	-	n
2,3,4,6,7,8-HxCDF	35816	0.48 n	31:29	1.22	1.56	4.10	-	n
1,2,3,7,8,9-HxCDF	42464	2.65 n	32:24	1.19	1.90	4.21	-	n
Total HxCDF	2541549	1.30 y	27:46	1.20	94.73 <del>113.1296,17</del>	4.16	-	n
13C-1,2,3,6,7,8-HxCDD	52763100	1.35 y	31:48	0.77	3664.23	5.17	91.6	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.03	*	5.68	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.11	*	5.28	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.24	*	4.70	-	n
Total HxCDD	109263	0.36 n	29:51	1.13	7.36	5.19 <del>5.68</del>	-	n
13C-1,2,3,4,6,7,8-HpCDF	53912800	0.42 y	33:59	0.98	2931.02	11.20	73.3	n
1,2,3,4,6,7,8-HpCDF	1034880	1.28 n	33:59	1.35	56.89 Q5	3.78	-	n
1,2,3,4,7,8,9-HpCDF	374254	0.98 y	35:13	1.19	23.41 J	4.30	-	n
Total HpCDF	1983661	1.28 n	33:59	1.27	113.92	4.03	-	n
13C-1,2,3,4,6,7,8-HpCDD	43606600	1.12 y	34:52	0.81	2886.27	7.78	72.2	n
1,2,3,4,6,7,8-HpCDD	91952	1.10 y	34:53	1.03	8.22 J	4.28	-	n
Total HpCDD	193533	1.57 n	34:15	1.03	17.30 <del>8.22</del>	4.28	-	n
13C-OCDD	60066400	0.89 y	37:32	0.62	5207.43	5.38	65.1	n
OCDF	1662062	0.85 y	37:38	1.44	153.20 J	6.42	-	n
OCDD	134636	0.64 n	37:32	1.09	16.45 JQ	5.26	-	n

Run Text: L507F-1-AA

Sample text: L507F-1-AA :G0H210471-2

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:14

Run: 12 File: 25AU10A1D5 S:8 Acq:26-AUG-10 02:52:30

Tables: Run: 25AU10A1D5 Analyte: T09 Cal: T090727101D5 Results: 25AU10A1

Amount: 72.00 of which 13.73 named and 58.27 unnamed  
 Conc: 144.00 of which 27.46 named and 116.55 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:47	0.77 y	5.18	77104 100779	4.6 5.9	y	n
	2	15:08	0.84 y	1.86	29319 34713	2.2 2.5	n	n
	3	15:17	0.99 n	3.69	71099 71550	4.3 4.1	y	n
	4	15:33	0.82 y	27.21	421779 512735	22.9 29.1	y	n
	5	15:47	0.69 y	14.76	206796 300084	8.9 13.8	y	n
	6	16:05	0.58 n	10.61	158428 274405	6.6 9.9	y	n
	7	16:19	0.74 y	12.73	185357 251845	12.9 13.2	y	n
	8	16:34	0.67 y	8.62	118708 177305	6.8 10.1	y	n
	9	16:40	0.63 n	10.32	154107 244768	9.2 12.9	y	n
	10	16:51	0.58 n	9.35	139614 241044	9.0 14.3	y	n
2,3,7,8-TCDF	11	17:14	0.73 y	27.46	397461 545313	20.4 27.3	y	n
	12	17:38	0.86 y	5.93	94213 109445	3.9 5.1	y	n
	13	17:43	0.64 n	4.70 <i>S/N</i>	70178 109445	2.2 5.1	n	n
	14	18:06	0.70 y	1.59	22430 32041	1.6 2.2	n	n

Run Text: L507F-1-AA

Sample text: L507F-1-AA :G0H210471-2

Name: Total TCDD

F:1 Mass: 319.897 321.894 Mod? no #Hom:4

Run: 12 File: 25AU10A1D5 S:8 Acq:26-AUG-10 02:52:30

Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1D5

Amount: 4.06 of which \* named and 4.06 unnamed  
Conc: 8.11 of which \* named and 8.11 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:58	0.70 y	4.91 DL	50246 71329	4.4 5.2	y y	n n
	2	17:13	3.61 n	1.09	54809 15167	6.4 1.7	y n	n n
	3	18:46	1.65 n	1.57	36093 21901	4.1 2.2	y n	n n
	4	19:08	0.97 n	0.54	7388 7616	0.9 0.8	n n	n n



Run Text: L507F-1-AA

Sample text: L507F-1-AA :G0H210471-2

Name: Total F2 PeCDF

F:2 Mass: 339.860 341.857 Mod? no #Hom:9

Run: 12 File: 25AU10A1D5 S:8 Acq:26-AUG-10 02:52:30

Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 37.66 of which 10.61 named and 27.05 unnamed  
 Conc: 75.32 of which 21.22 named and 54.11 unnamed

*see chro*

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:41	1.71 y	5.87	104146 60746	6.8 2.8	y n	n n
	2	20:54	1.54 y	28.37	483477 313027	22.8 8.9	y y	n n
	3	21:39	1.37 y	<del>2.95</del>	47898 34925	4.7 1.8	y n	n n
	4	21:46	2.38 n	6.63	173697 72998	9.4 3.3	y y	n n
	5	22:07	1.34 y	<del>4.29</del>	68977 51470	4.3 2.8	y n	n n
1,2,3,7,8-PeCDF	6	22:13	1.54 y	15.42	274996 178817	14.2 6.1	y y	n n
	7	22:45	4.68 n	<del>2.28</del>	122718 26204	6.0 1.7	y n	n n
2,3,4,7,8-PeCDF	8	23:32	2.18 n	<del>5.80</del>	132223 60783	7.4 2.3	y n	n n
	9	23:53	2.76 n	<del>3.62</del>	110127 39871	3.3 2.2	y n	n n

*5.29*

Run Text: L507F-1-AA

Sample text: L507F-1-AA :G0H210471-2

Name: Total F1 PeCDF

F:1 Mass: 339.860 341.857 Mod? no #Hom:3

Run: 12 File: 25AU10A1D5 S:8 Acq:26-AUG-10 02:52:30

Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 4.34 of which \* named and 4.34 unnamed  
 Conc: 8.68 of which \* named and 8.68 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:16	1.61 y	3.08	53354 33146	6.2 1.7	y n	n n
	2	15:24	0.65 n	0.53	8975	1.1	n	n

					13717	0.8	n	n
3	19:21	2.79	n	5.08	156262	14.0	y	n
					55925	2.7	n	n

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Run Text: L507F-1-AA

Sample text: L507F-1-AA :G0H210471-2

Name: Total PeCDD      F:2 Mass: 355.855 357.852      Mod? no      #Hom:7  
 Run: 12 File: 25AU10A1D5      S:8      Acq:26-AUG-10 02:52:30  
 Tables: Run: 25AU10A1D5 Analyte: TO9      Cal: TO90727101D5 Results: 25AU10A1

Amount:	12.89 of which	0.98 named and	11.91 unnamed
Conc:	25.78 of which	1.96 named and	23.82 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:07	1.52 y	5.74	48562	3.3	y	n
					31938	5.0	y	n
	2	22:13	1.01 n	5.76	49148	2.1	n	n
					48632	5.2	y	n
	3	22:33	1.25 n	1.20	10227	0.9	n	n
					8150	1.6	n	n
	4	22:49	1.32 y	5.07	40492	2.0	n	n
					30566	2.9	n	n
	5	23:54	3.71 n	4.45	90756	5.2	y	n
					24482	2.2	n	n
1,2,3,7,8-PeCDD	6	24:20	2.01 n	1.96	21753	1.7	n	n
					10804	1.4	n	n
	7	25:33	1.51 y	1.60	13500	0.9	n	n
					8938	1.1	n	n

Run Text: L507F-1-AA

Sample text: L507F-1-AA :G0H210471-2

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:13  
 Run: 12 File: 25AU10A1D5 S:8 Acq:26-AUG-10 02:52:30  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 56.57 of which 27.99 named and 28.57 unnamed  
 Conc: 113.13 of which 55.98 named and 57.15 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:46	1.30	16.28	207529 159960	8.7 8.1	y	n
	2	28:10	0.96	21.37	267139 279537	11.9 15.3	y	n
	3	28:59	1.98	3.45	69003 34764	2.7 2.7	n	n
	4	29:26	0.24	1.29	16167 66916	1.4 4.0	n	n
	5	29:31	0.30	1.62	20279 66916	2.0 4.0	n	n
1,2,3,4,7,8-HxCDF	6	30:25	1.14	32.93	380893 333831	17.0 20.8	y	n
1,2,3,6,7,8-HxCDF	7	30:36	1.17	19.59	246590 211624	12.4 14.6	y	n
	8	30:48	0.80	4.56	56939 71011	3.7 5.6	y	n
	9	31:08	0.45	3.50	43690 96250	2.9 5.5	n	n
	10	31:23	0.45	2.48	30970 69128	2.3 3.5	n	n
2,3,4,6,7,8-HxCDF	11	31:29	0.48	1.56	19827 41384	1.9 3.2	n	n
1,2,3,7,8,9-HxCDF	12	32:24	2.65	1.90	50305 18957	3.2 2.2	y	n
	13	32:28	1.21	2.61	32181 26650	2.0 3.1	n	n

94.23

Run Text: L507F-1-AA

Sample text: L507F-1-AA :G0H210471-2

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:3  
 Run: 12 File: 25AU10A1D5 S:8 Acq:26-AUG-10 02:52:30

Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

Amount: 3.68 of which \* named and 3.68 unnamed  
Conc: 7.36 of which \* named and 7.36 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	29:51	0.36 n	1.35	11064 30325	1.5 1.9	n	n
	2	30:29	2.07 n	3.51	48292 23300	2.9 1.6	n	n
	3	33:07	1.26 y	2.50	20658 16426	1.9 1.5	n	n

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Run Text: L507F-1-AA

Sample text: L507F-1-AA :G0H210471-2

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:4  
Run: 12 File: 25AU10A1D5 S:8 Acq:26-AUG-10 02:52:30  
Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

Amount: 56.96 of which 40.15 named and 16.81 unnamed  
Conc: 113.92 of which 80.30 named and 33.62 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:59	1.28 n	56.89	648900 507294	48.6 44.5	y	n
	2	34:12	0.71 n	12.58	109570 154018	8.4 12.4	y	n
	3	34:20	0.95 y	21.04	175490 184111	13.3 13.7	y	n
1,2,3,4,7,8,9-HpCDF	4	35:13	0.98 y	23.41	184895 189359	13.7 16.1	y	n

Run Text: L507F-1-AA

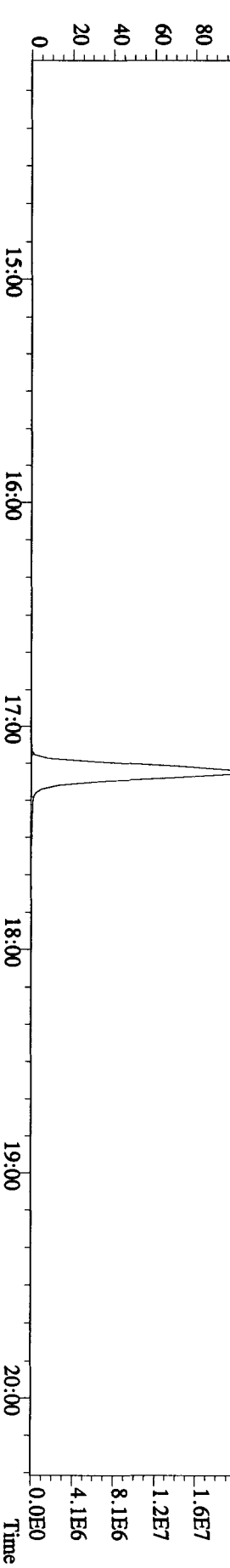
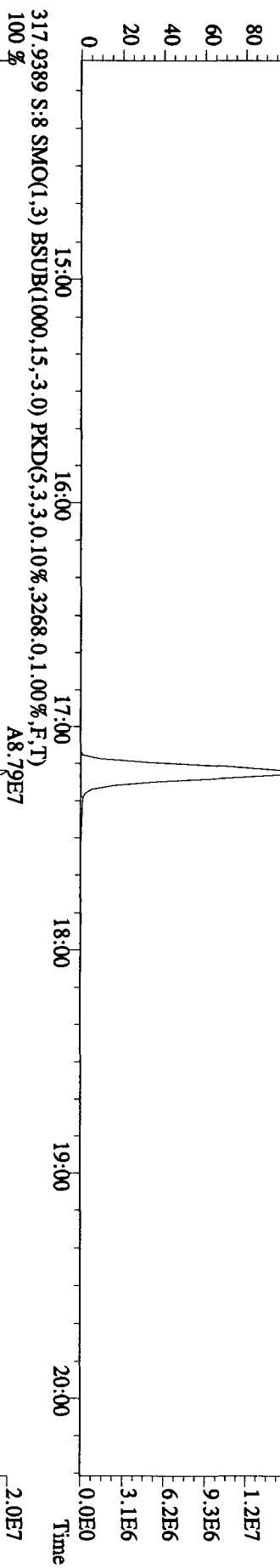
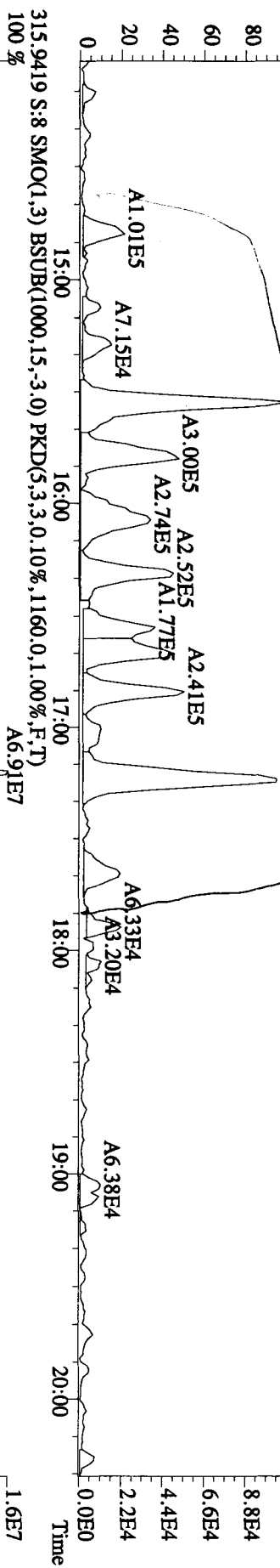
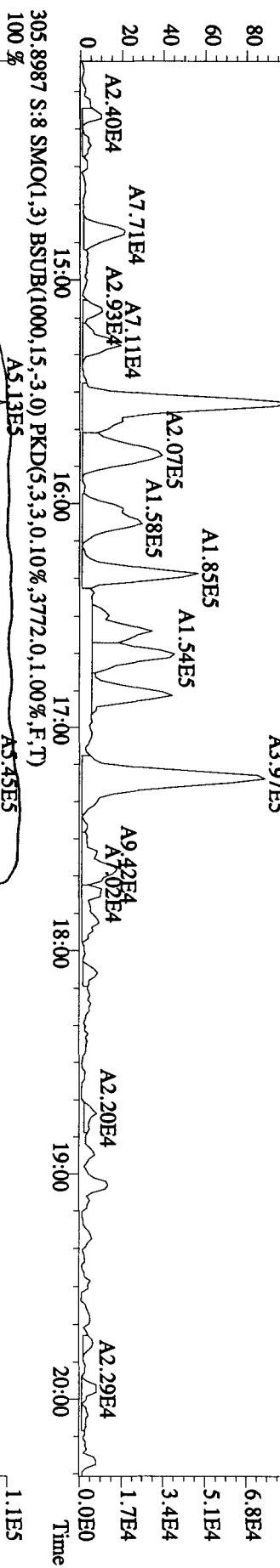
Sample text: L507F-1-AA :G0H210471-2

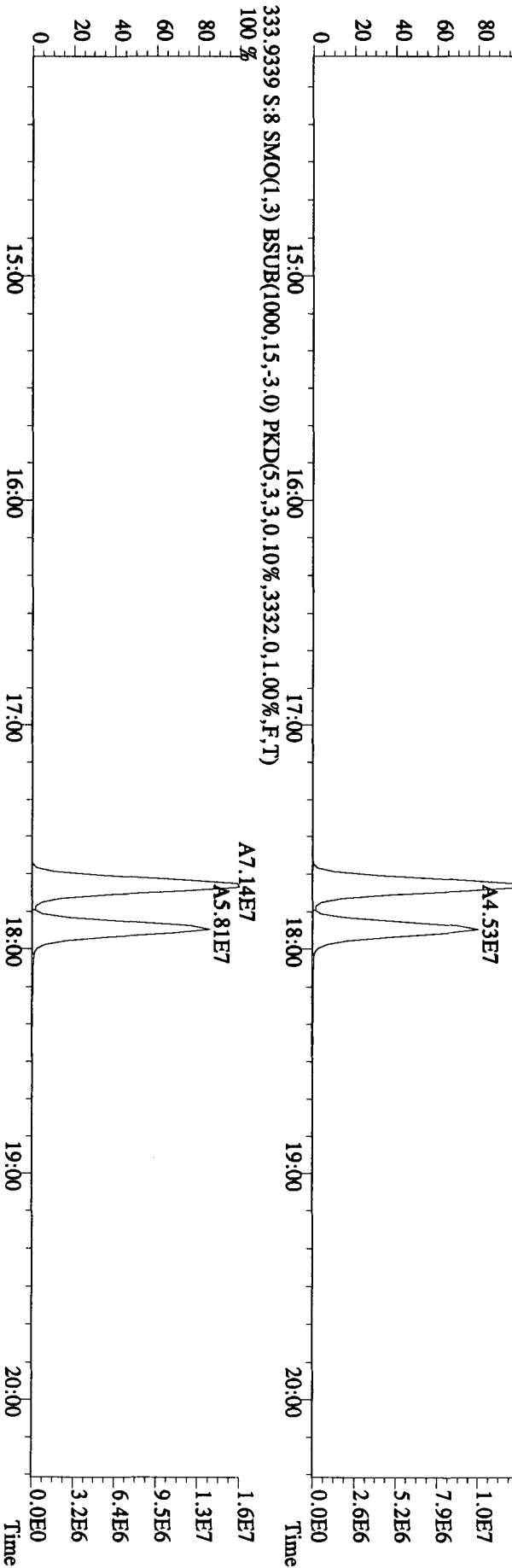
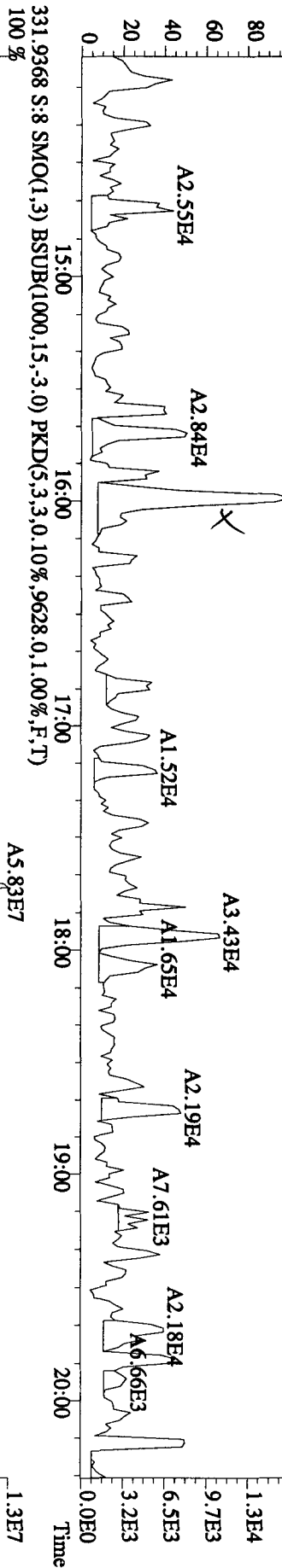
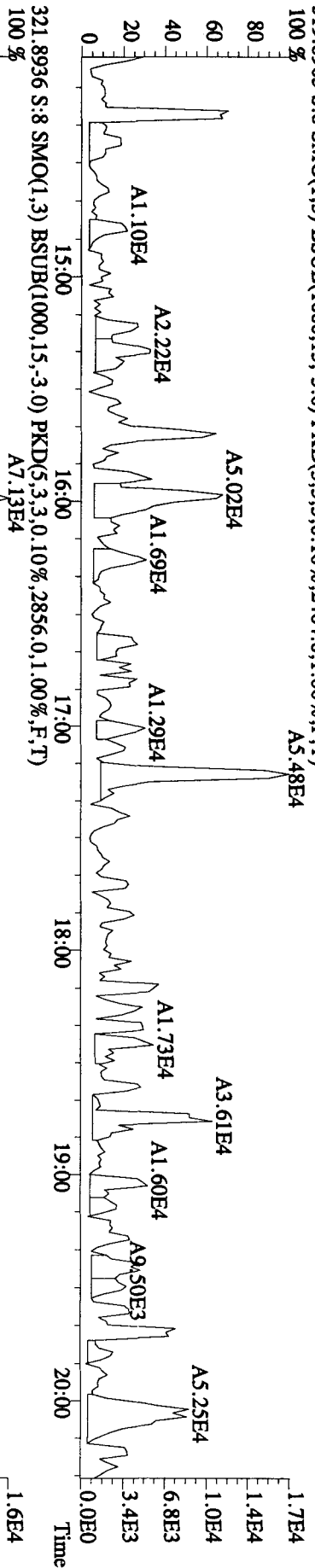
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:5  
 Run: 12 File: 25AU10A1D5 S:8 Acq:26-AUG-10 02:52:30  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A17

Amount: 8.65 of which 4.11 named and 4.54 unnamed  
 Conc: 17.30 of which 8.22 named and 9.08 unnamed

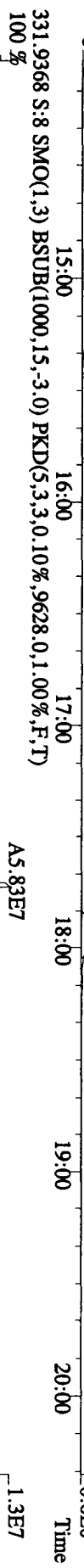
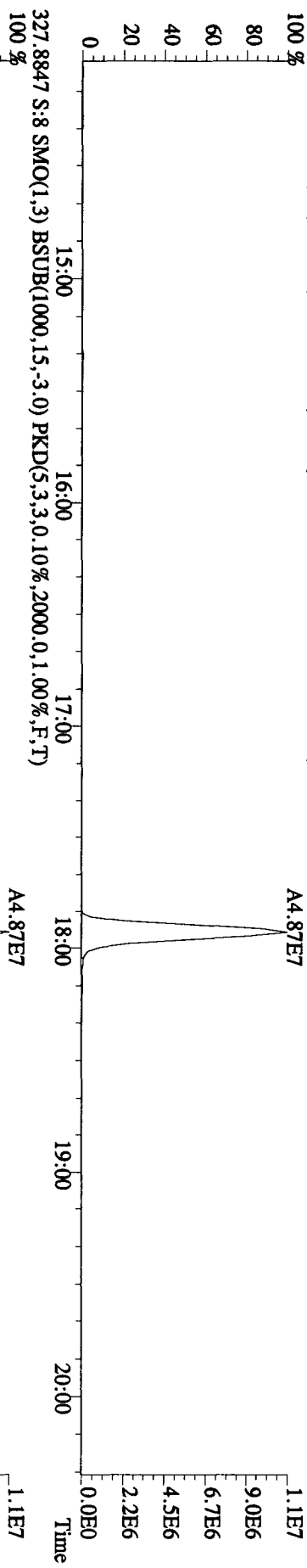
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	34:15	1.57	n 4.27	36687 23398	4.3 2.5	y n	n n
1,2,3,4,6,7,8-HpCDD	2	34:53	1.10	y 8.22	48206 43746	4.8 5.2	y y	n n
	3	35:01	0.69	n 2.78	15844 22900	2.3 1.7	n n	n n
	4	35:51	1.83	n 1.02	10209 5581	1.7 0.8	n n	n n
	5	35:55	2.14	n 1.02	11958 5581	1.2 0.8	n n	n n

File:25AU10A1D5 #1-372 Acq:26-AUG-2010 02:52:30 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:L507F-1-AA :G0H210471-2 Exp:DIOXINRES  
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3688.0,1.00%,F,T)  
 100 % A4.22E5



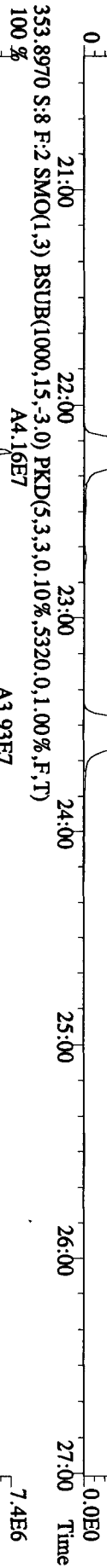
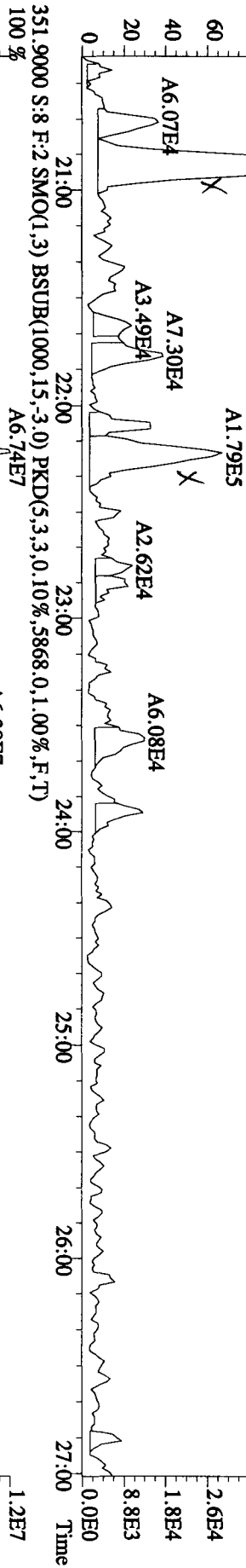
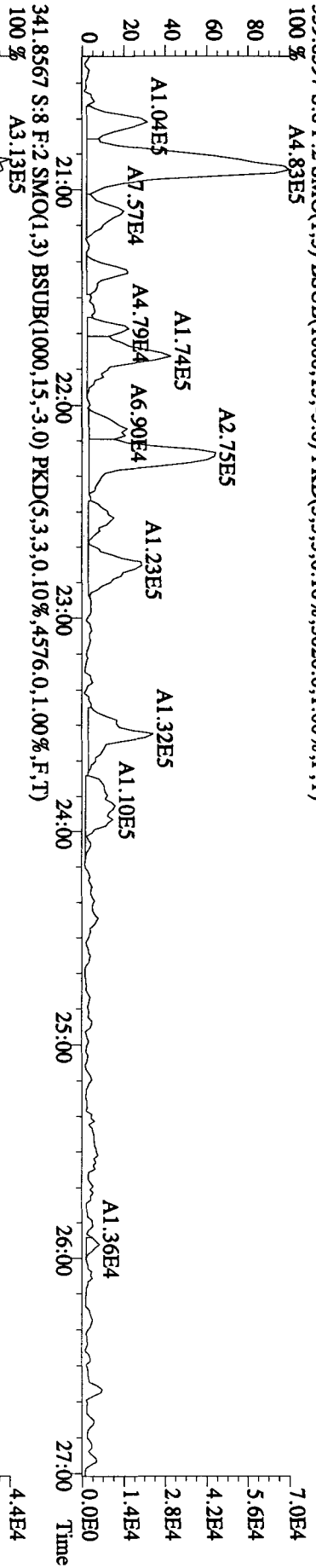


File:25AU10A1IDS #1-372 Acq:26-AUG-2010 02:52:30 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:L507F-1-AA :G0H210471-2 Exp:DIOXINRES  
 327.8847 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2000.0,1.00%,F,T)  
 100%

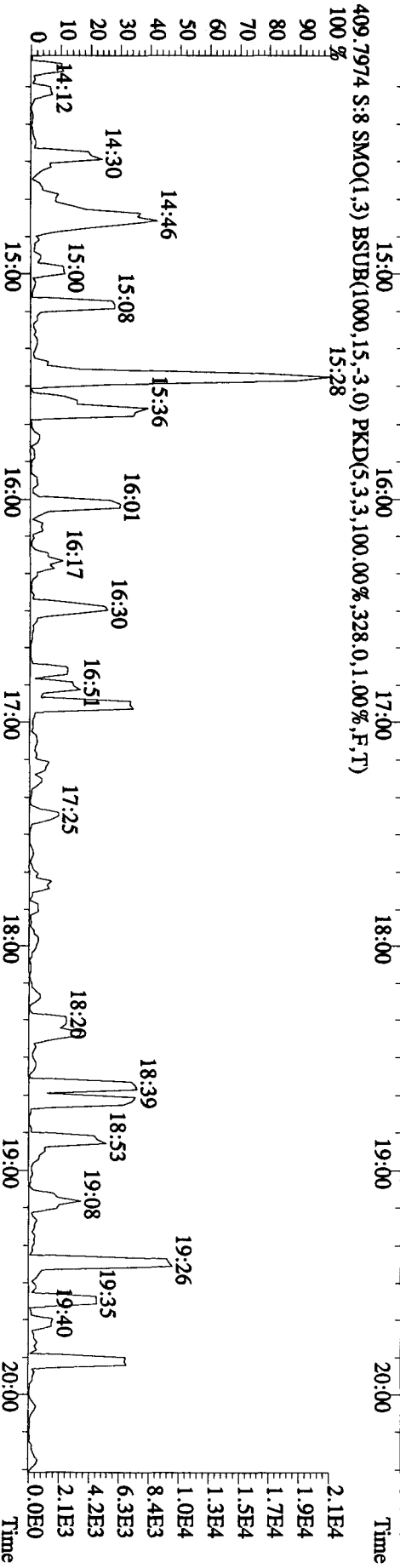
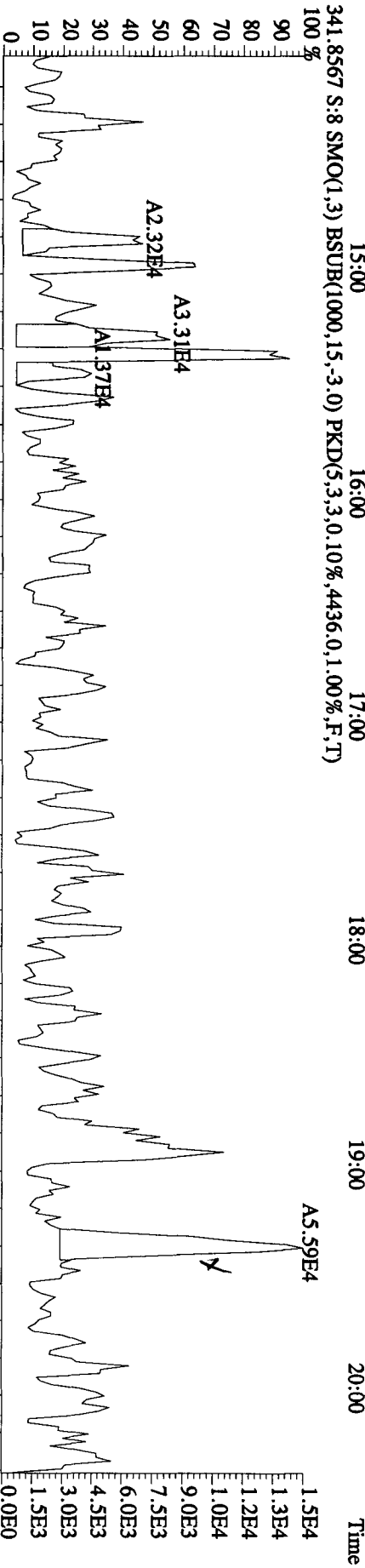
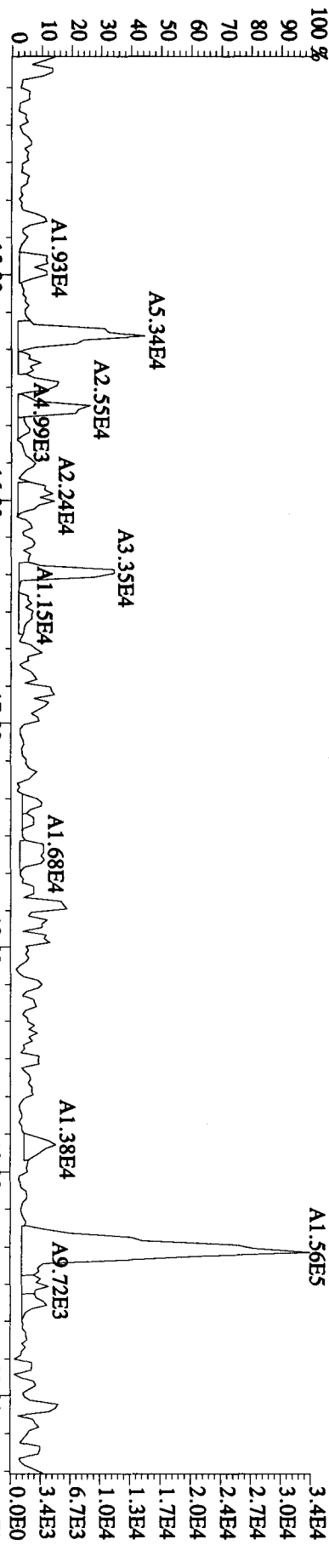


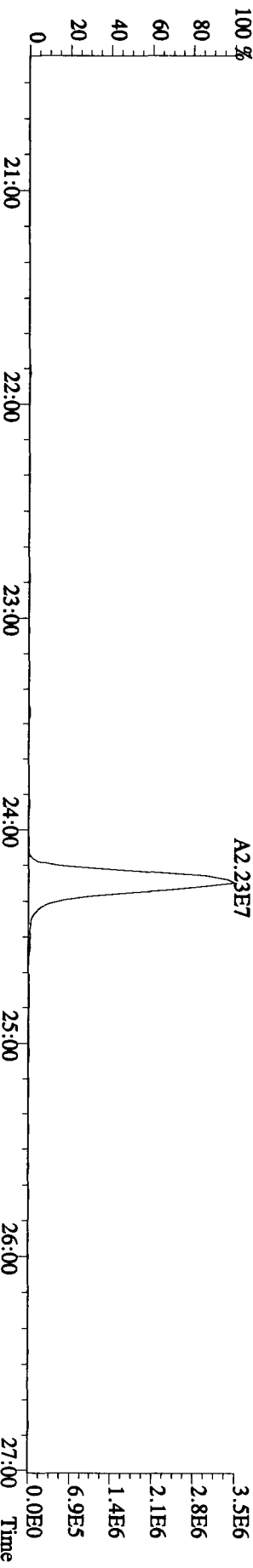
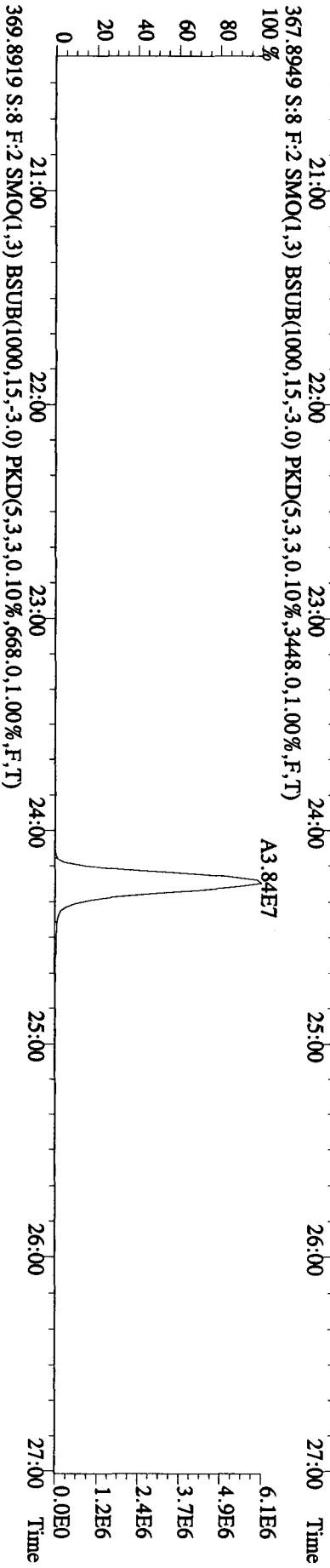
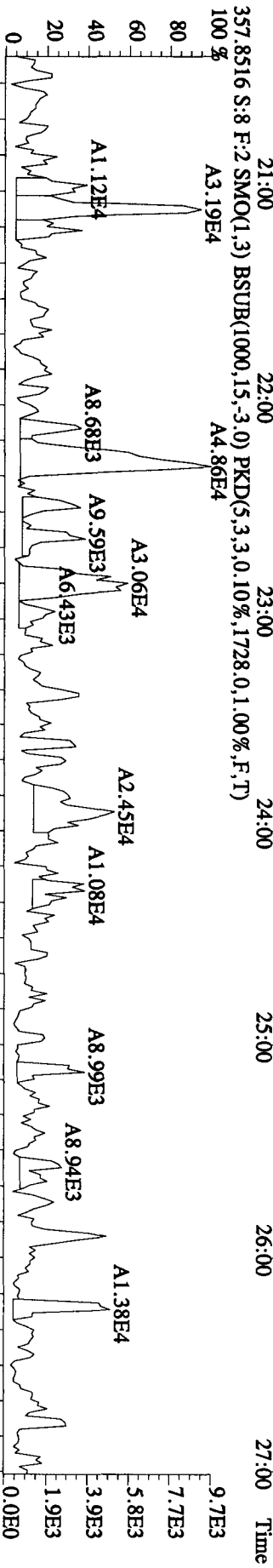
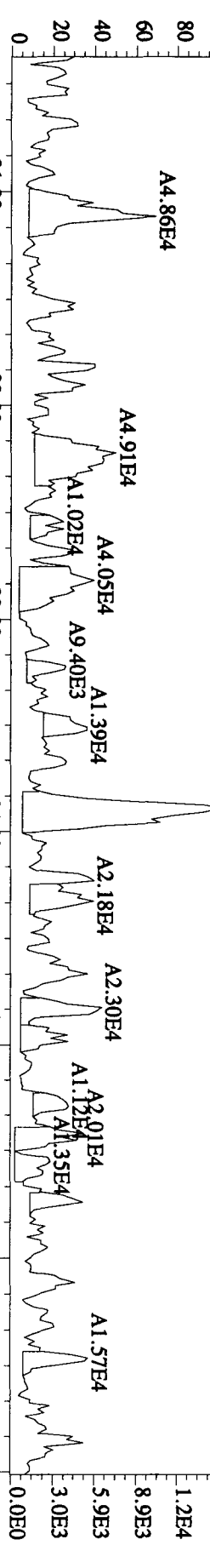


Sample#8 Text:L507F-1-AA :G0H210471-2  
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3020,0,1,00%,F,T)  
100 % A4.83E5

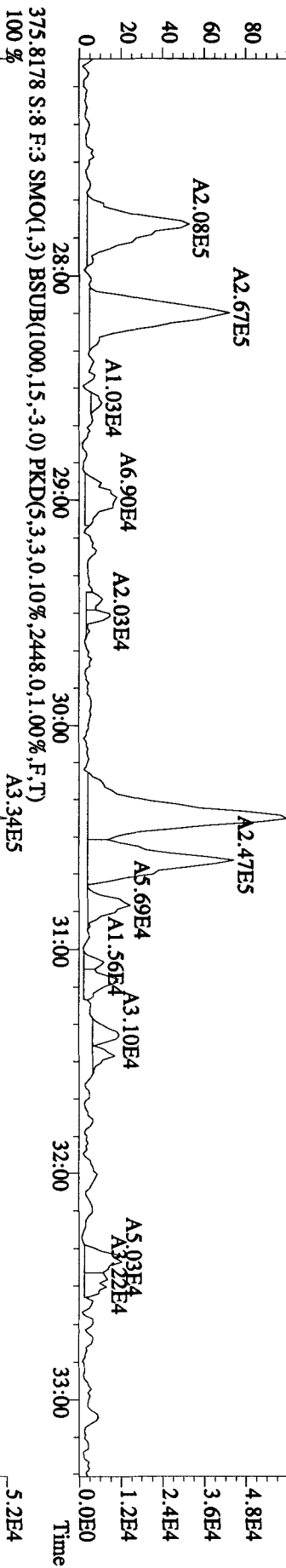


File:25AU10A1D5 #1-372 Acq:26-AUG-2010 02:52:30 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:L507F-1-AA :G0H210471-2 Exp.:DIOXINRES  
 339.8597 S:8 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.2324,0,1.00%,F,T)

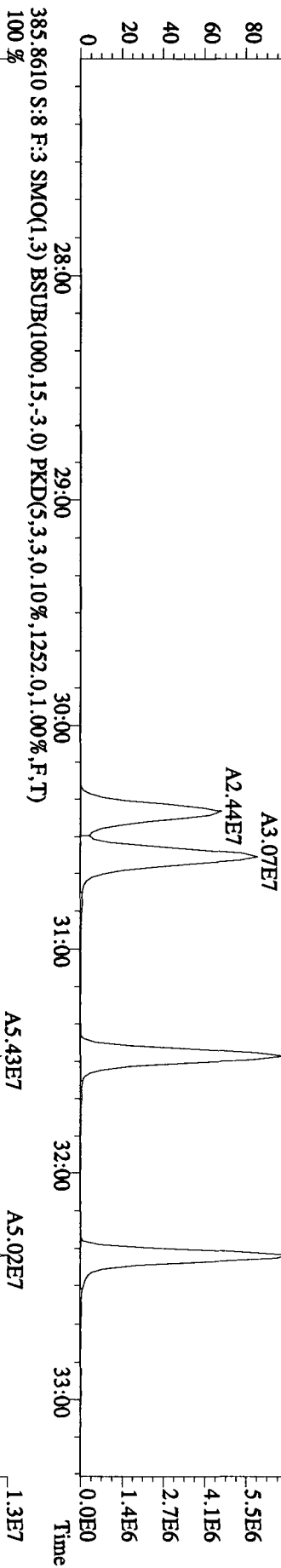




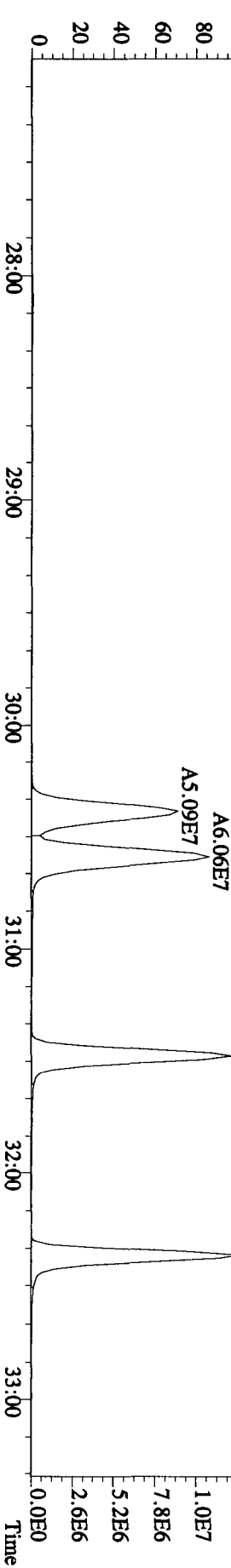
100% 80 60 40 20 0



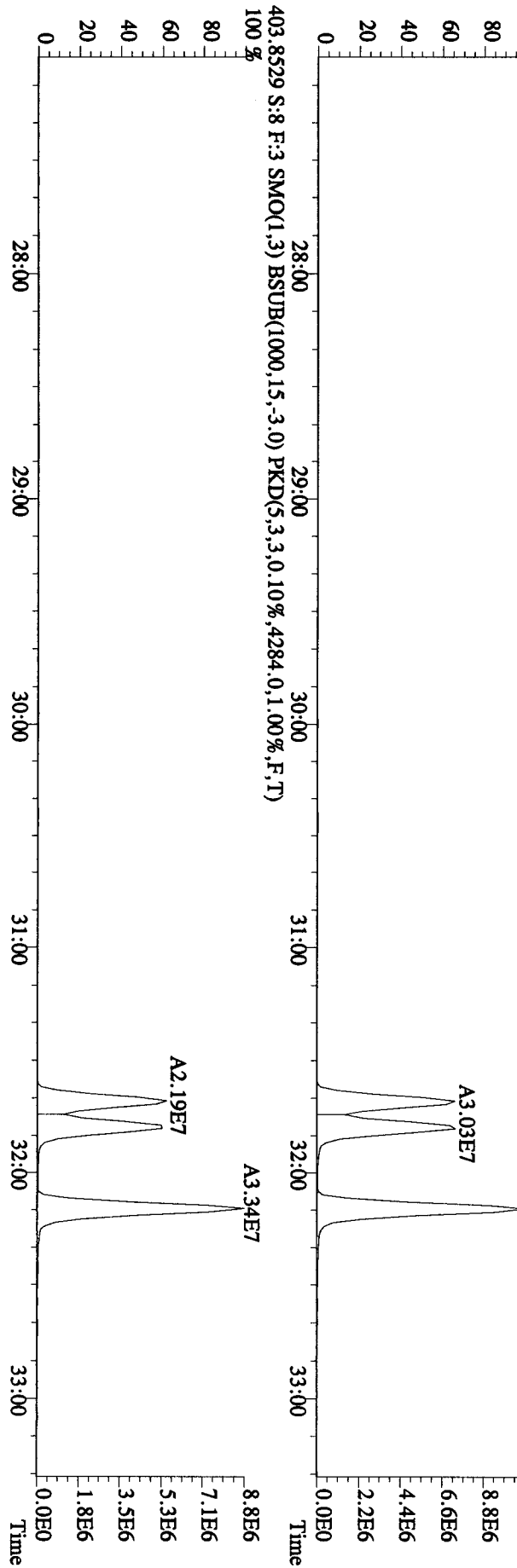
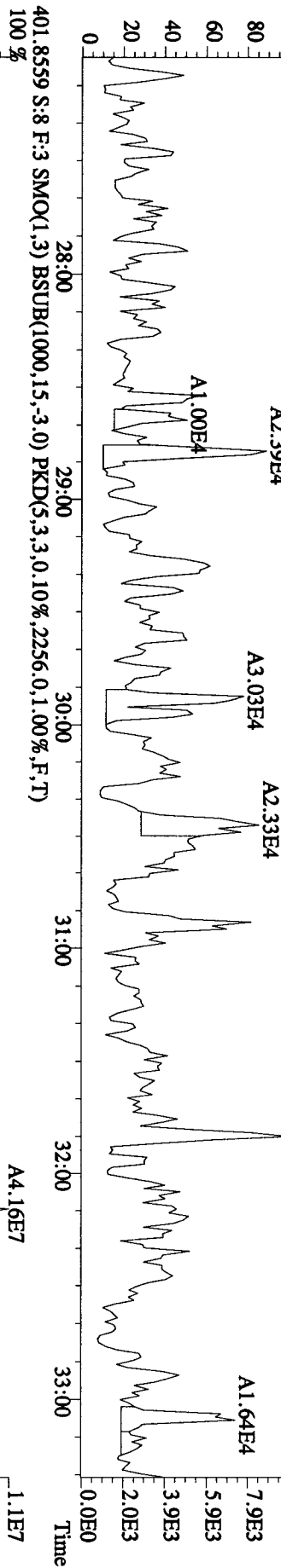
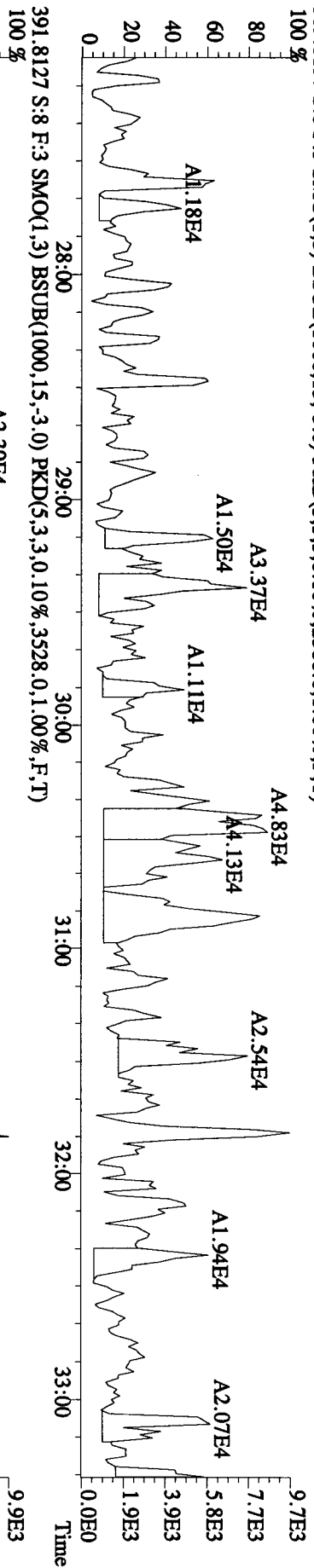
383,8639 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3492,0,1,100%,F,T)



385,8610 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1252,0,1,100%,F,T)

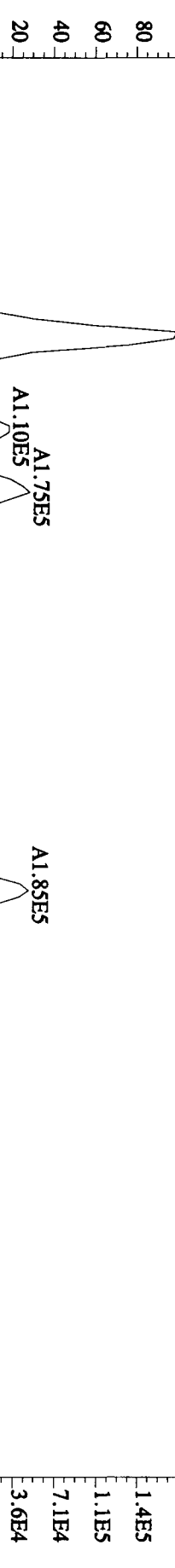


File:25AU10AID5 #1-406 Acq:26-AUG-2010 02:52:30 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:L507F-1-AA :G0H210471-2 Exp:DIOXINRES  
 389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2588,0,1,00%,F,T)



407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3604,0,1,00%,F,T)

A6.49E5



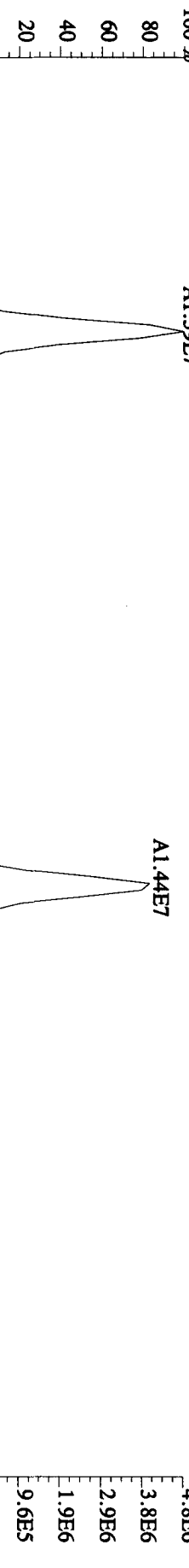
409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3252,0,1,00%,F,T)

A5.07E5



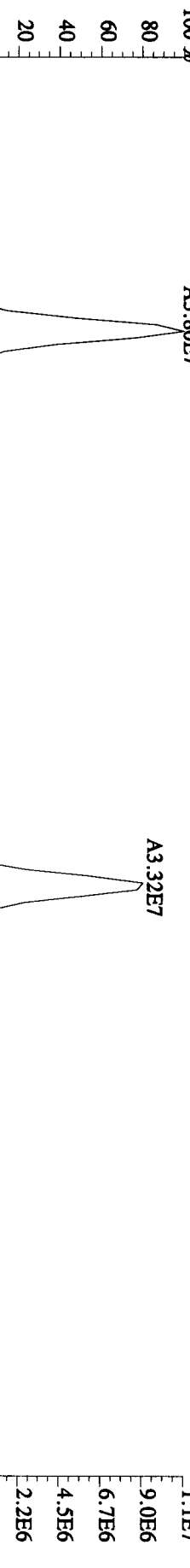
417.8253 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8980,0,1,00%,F,T)

A1.59E7

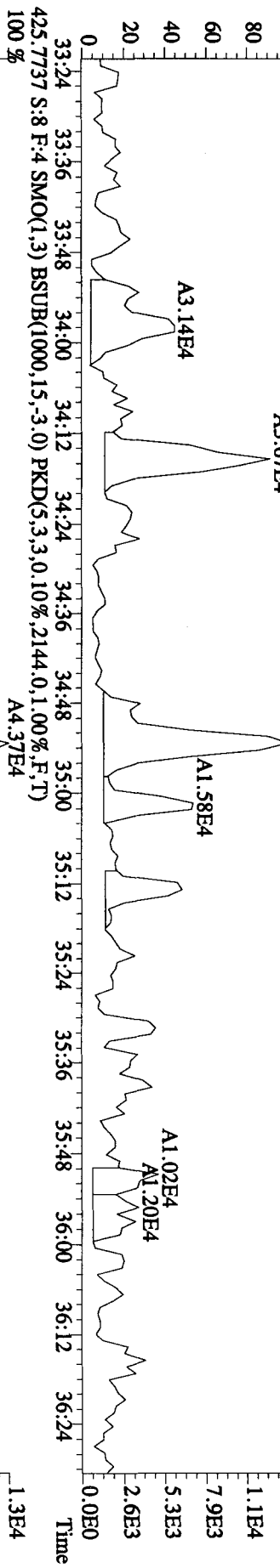


419.8220 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9140,0,1,00%,F,T)

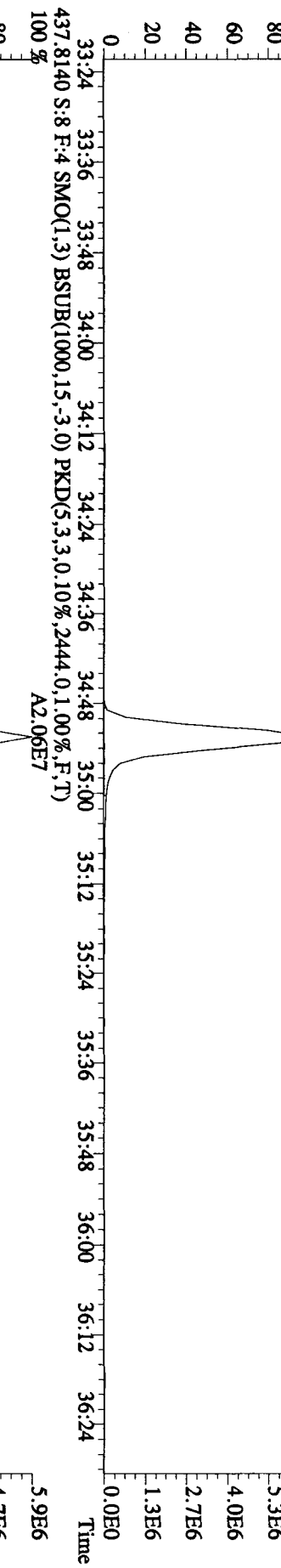
A3.80E7



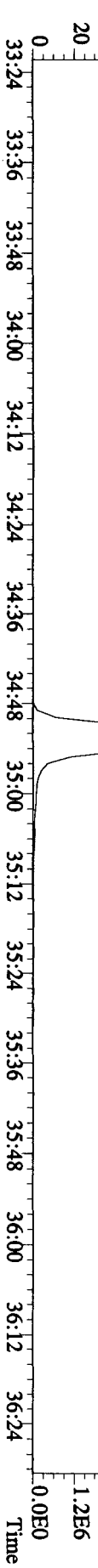
100 %



100 %



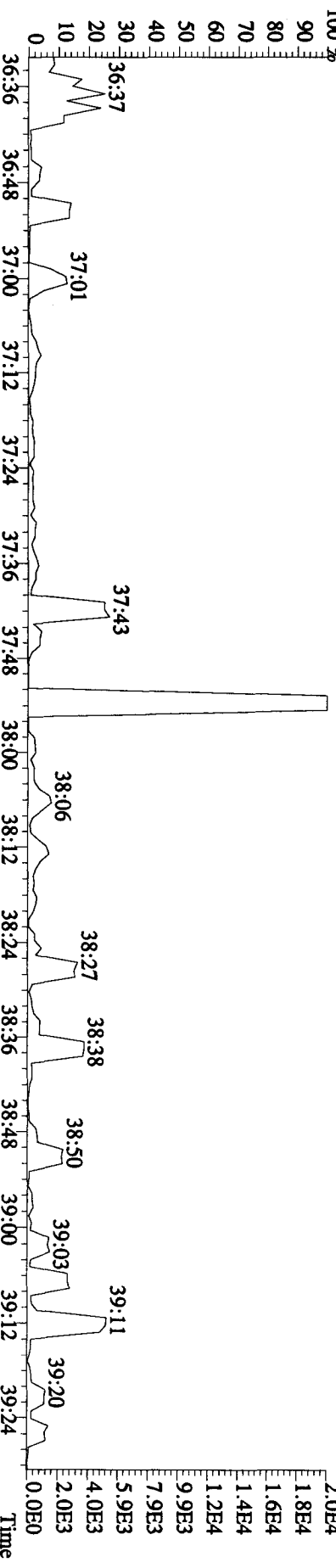
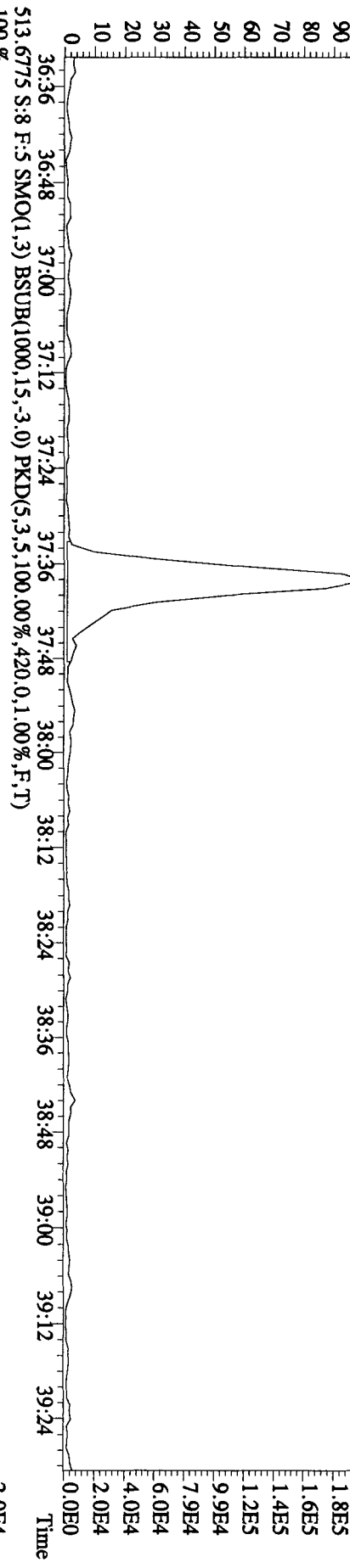
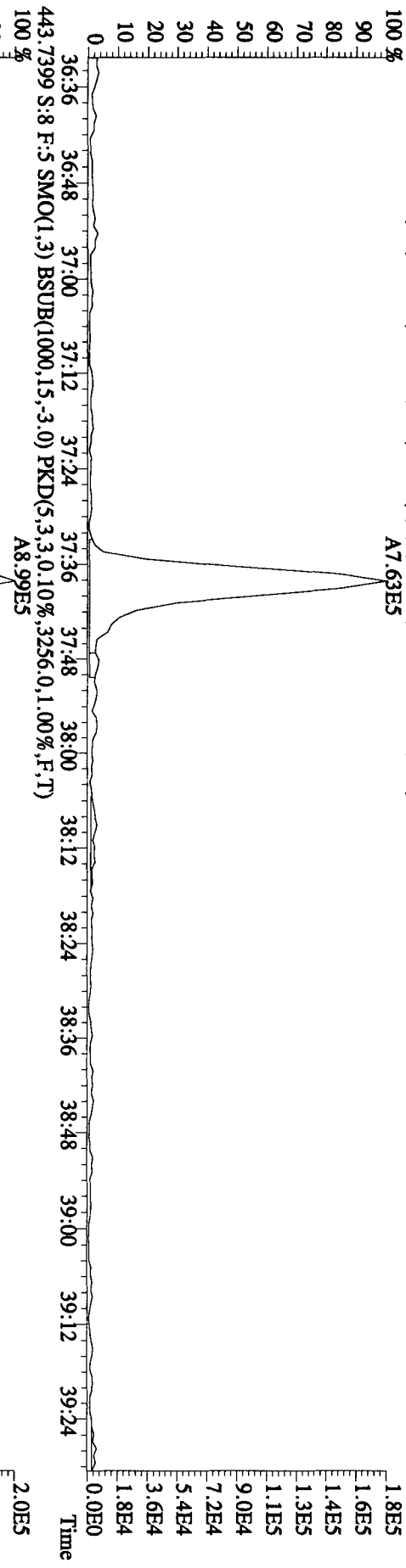
100 %



File:25AUI0A1D5 #1-196 Acq:26-AUG-2010 02:52:30 GC EI+ Voltage SIR 70SE

Sample#8 Text:L507F-1-AA :G0H210471-2 Exp:DIOXINRES

441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2508,0.1,00%,F,T) A7.63E5



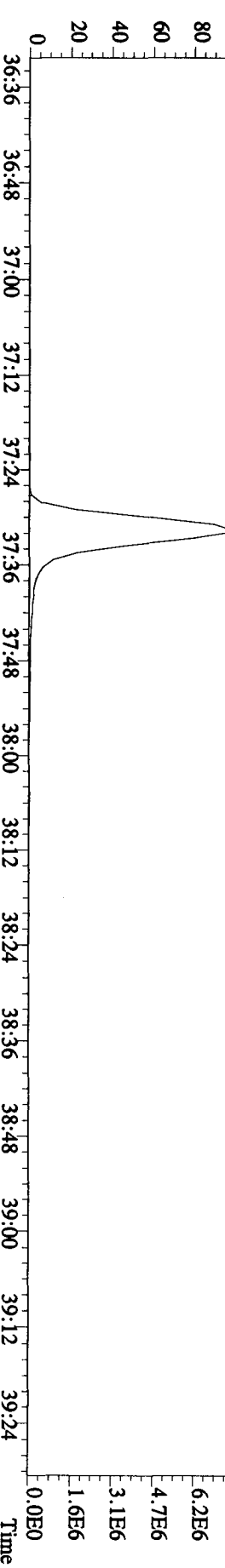
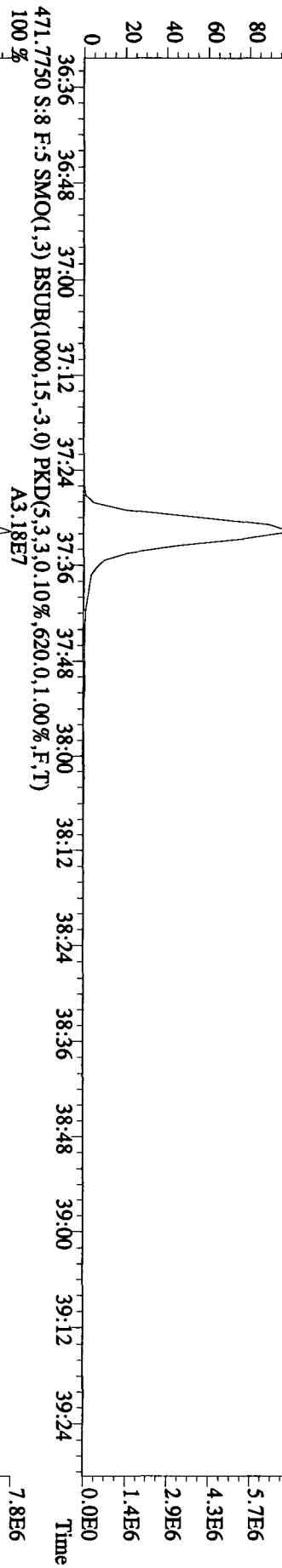
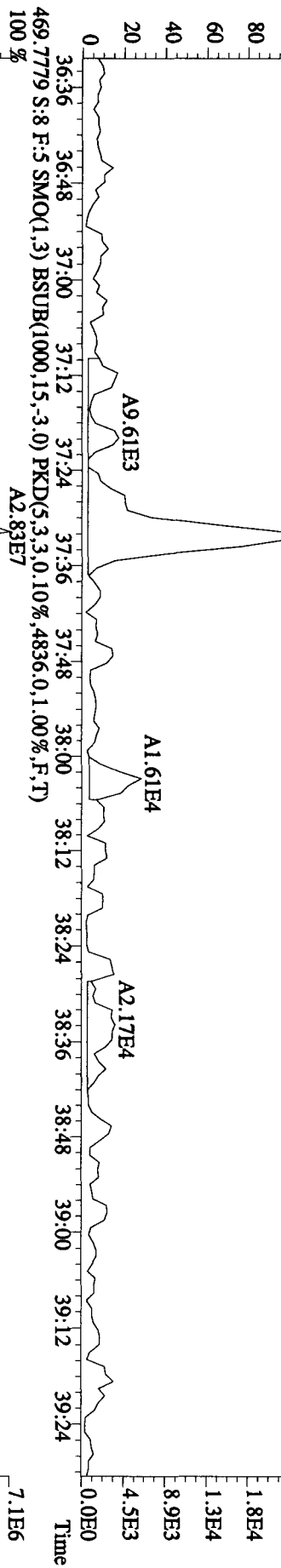
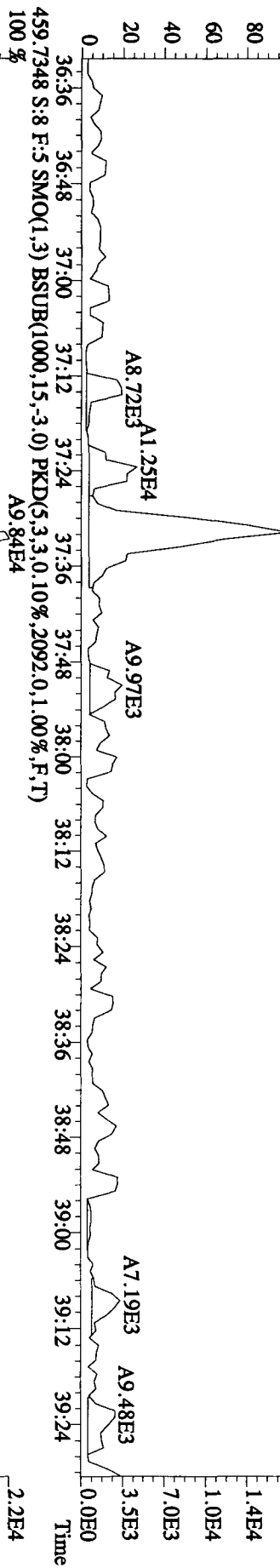


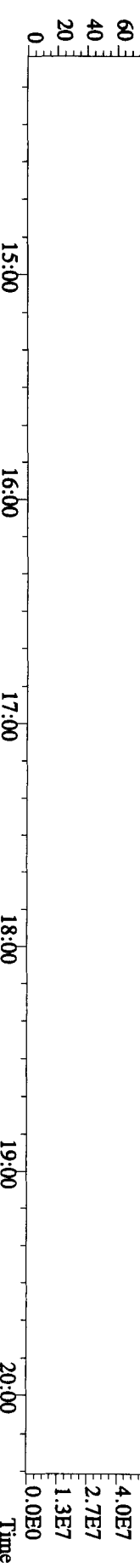
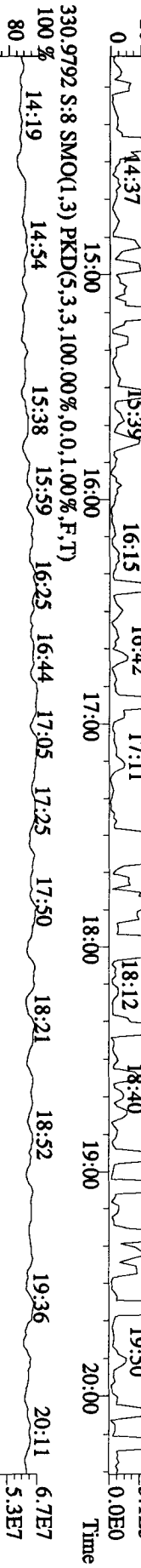
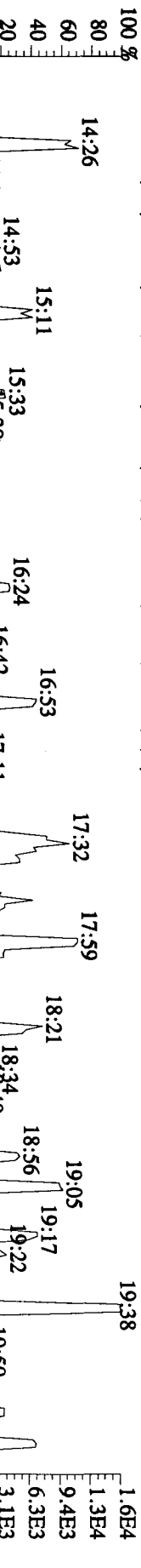
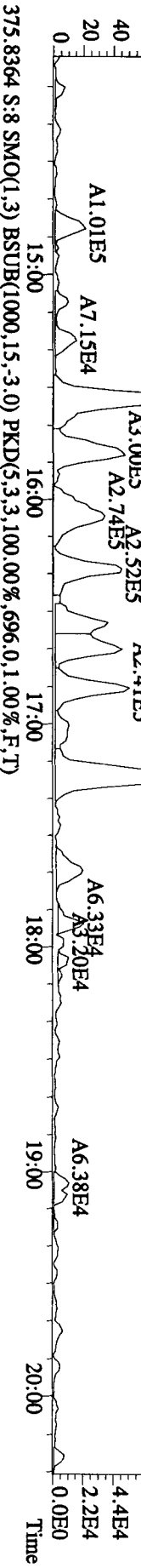
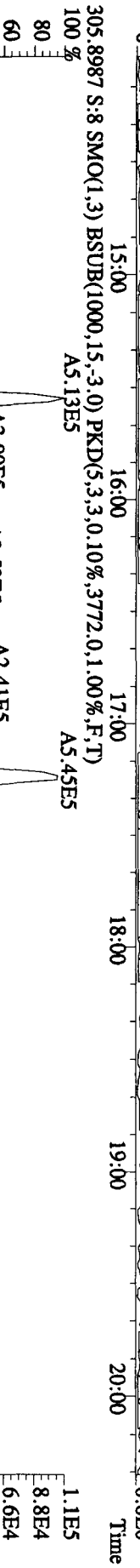
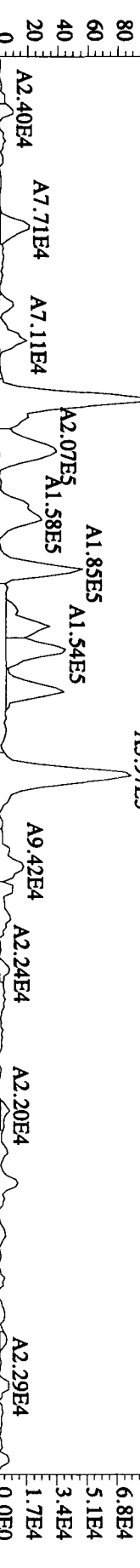
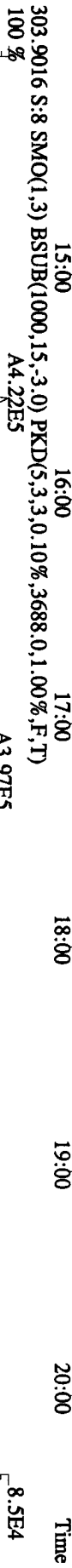
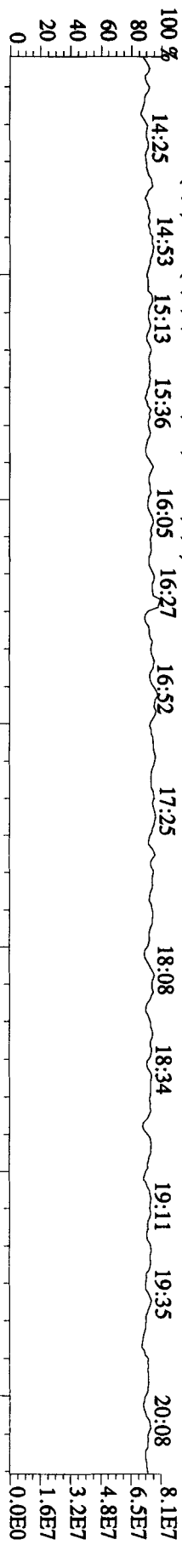
File:25AU10A1D5 #1-196 Acq:26-AUG-2010 02:52:30 GC EI+ Voltage SIR 70SE

Sample#8 Text:1.507F-1-AA :G0H210471-2

Exp:DIOXINRES

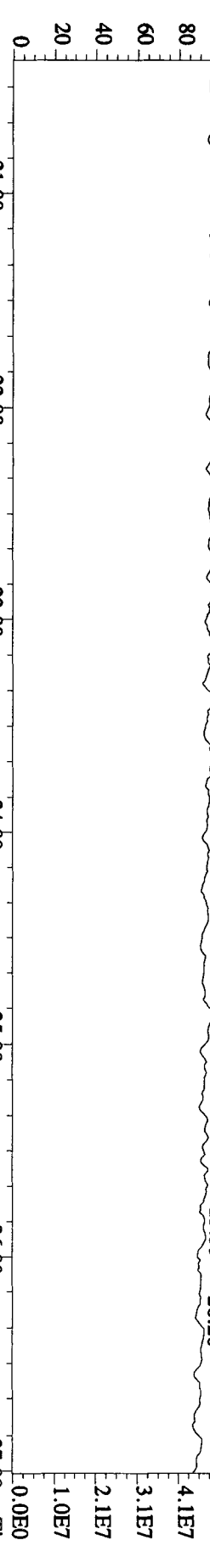
457.7377 S:8 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,1472.0,1.00%,F,T)



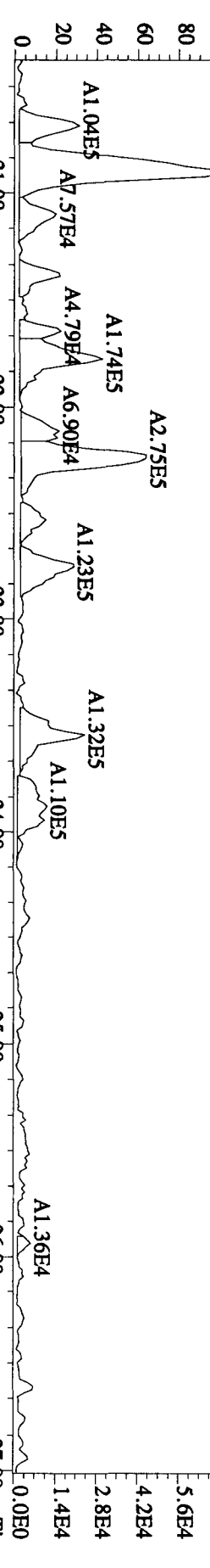


File:25AU10A1ID5 #1-414 Acq:26-AUG-2010 02:52:30 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:LS07F-1-AA :G0H210471-2 Exp:DIOXINRES

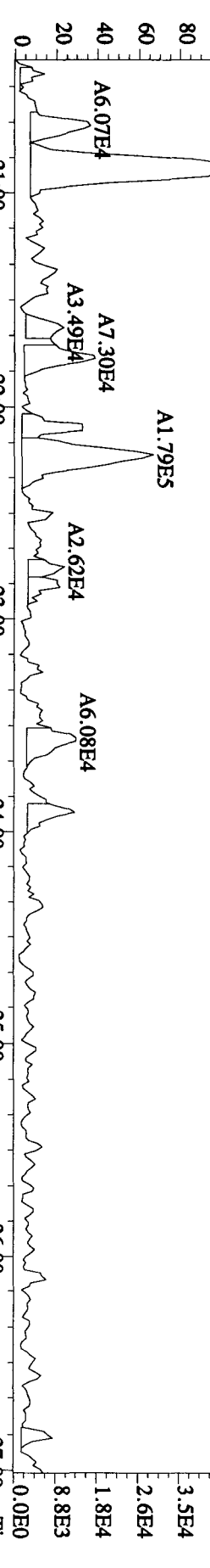
342.9792 S:8 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 21:05 21:34 22:09 22:42 23:06 23:39 24:05 24:51 25:26 25:55 26:20



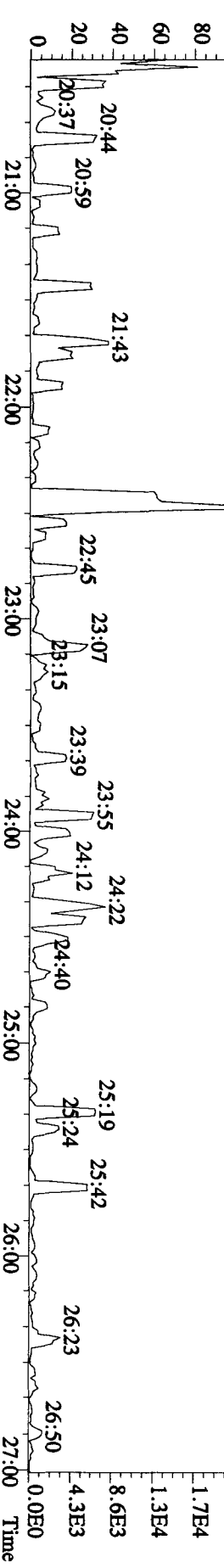
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3020,0,1.00%,F,T) 21:00 22:00 23:00 24:00 25:00 26:00 27:00

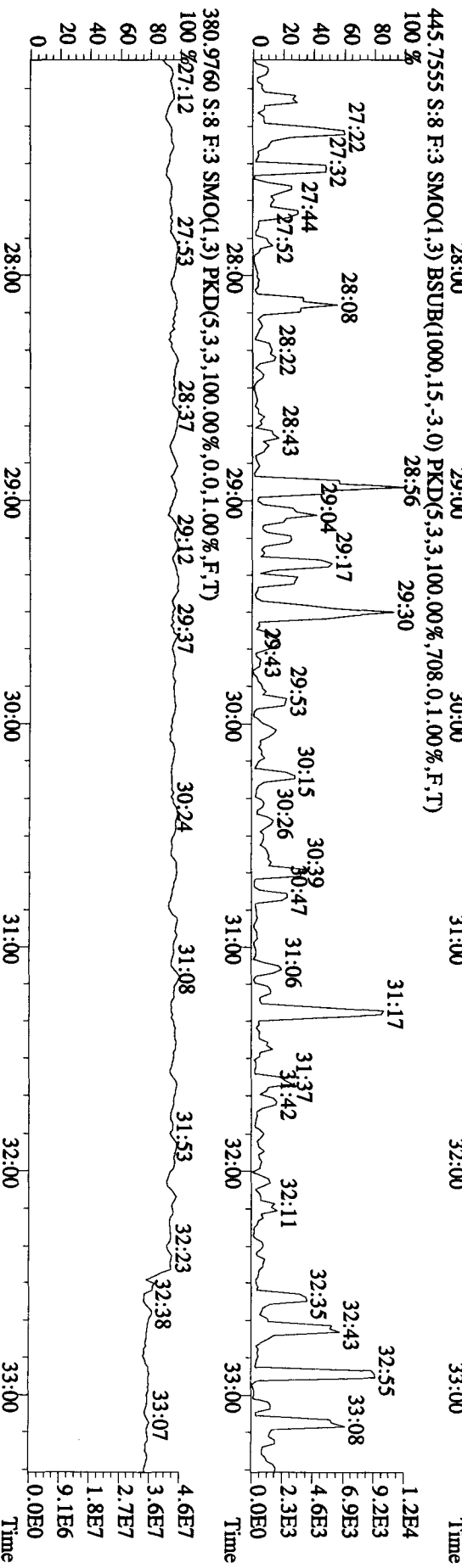
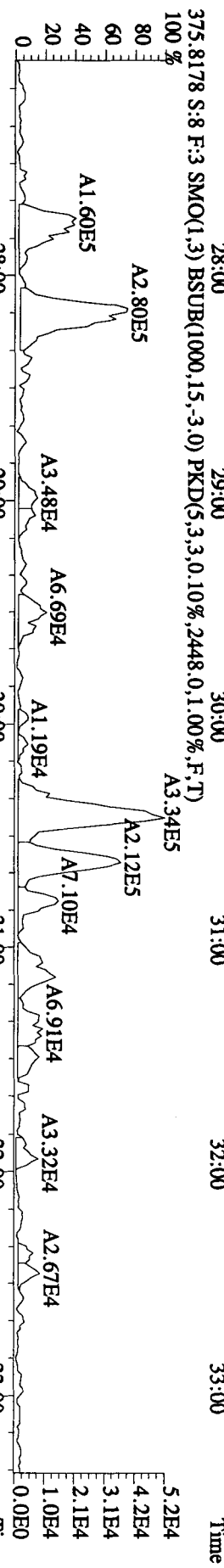
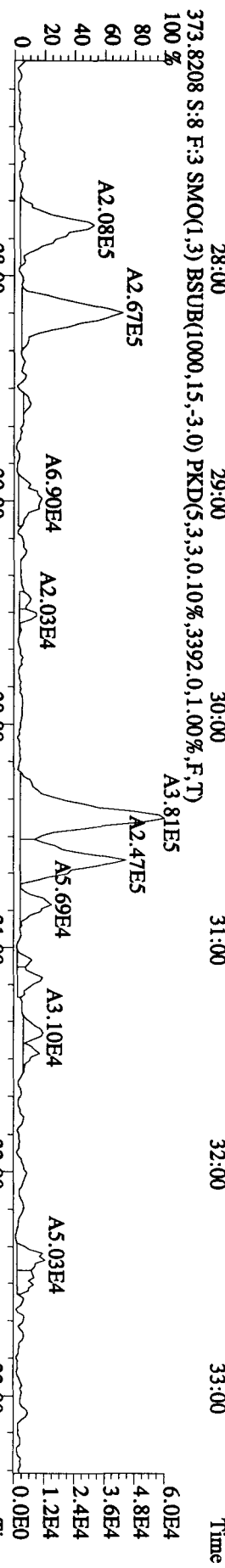
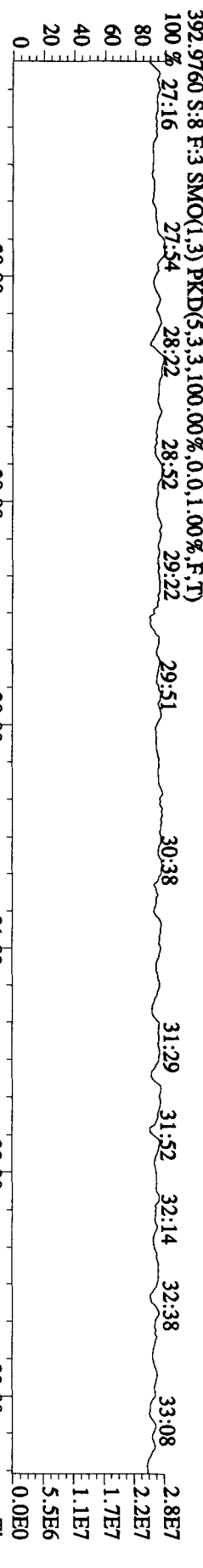


341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4576,0,1.00%,F,T) 21:00 22:00 23:00 24:00 25:00 26:00 27:00



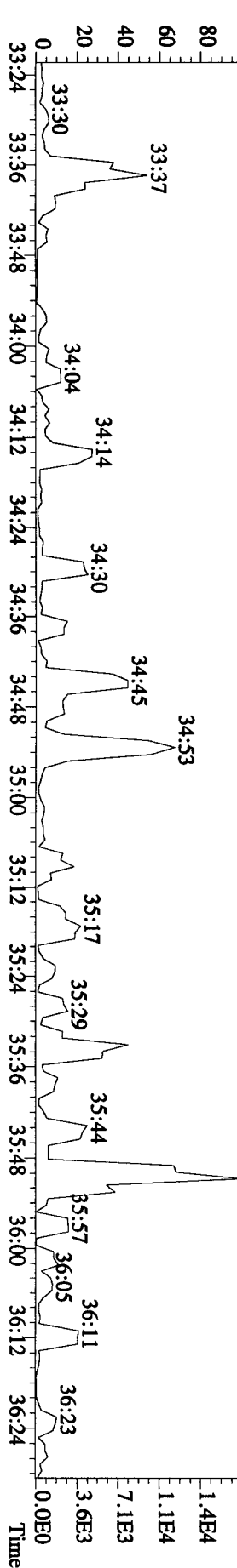
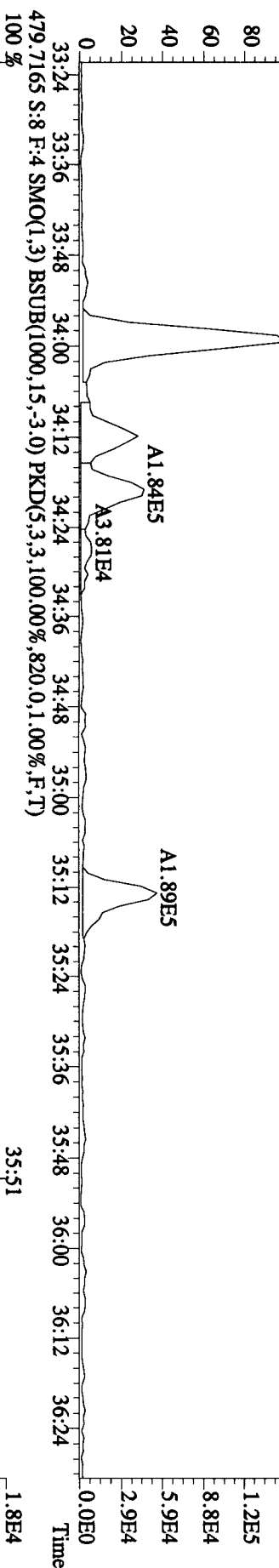
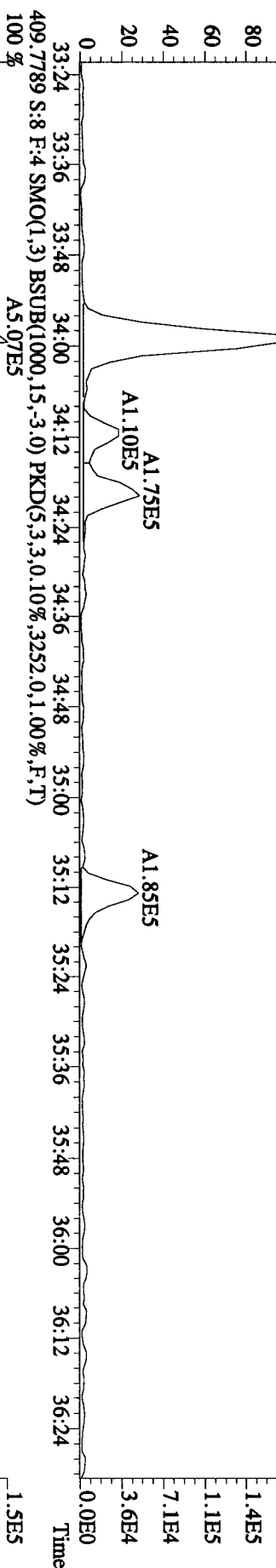
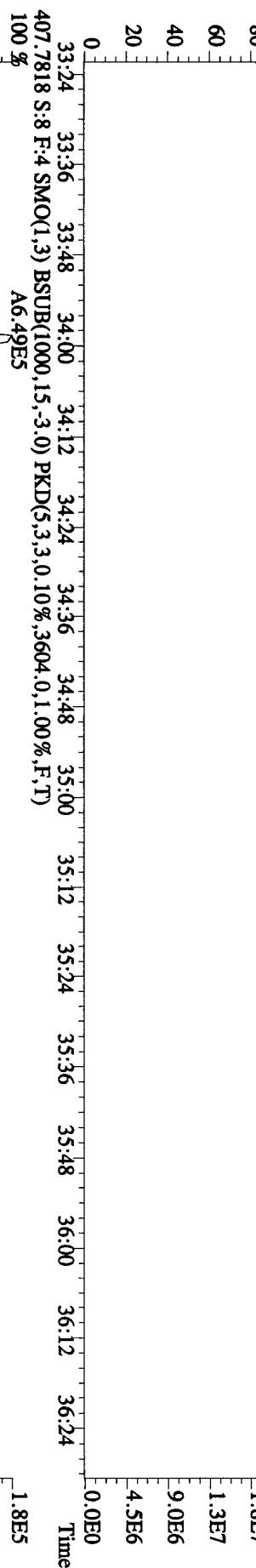
409.7974 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,628,0,1.00%,F,T) 21:00 22:00 23:00 24:00 25:00 26:00 27:00





File:25AU10AID5 #1-214 Acq:26-AUG-2010 02:52:30 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:L507F-1-AA :G0H210471-2 Exp:DIOXINRES

430.9728 S:8 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 100% 2.2E7



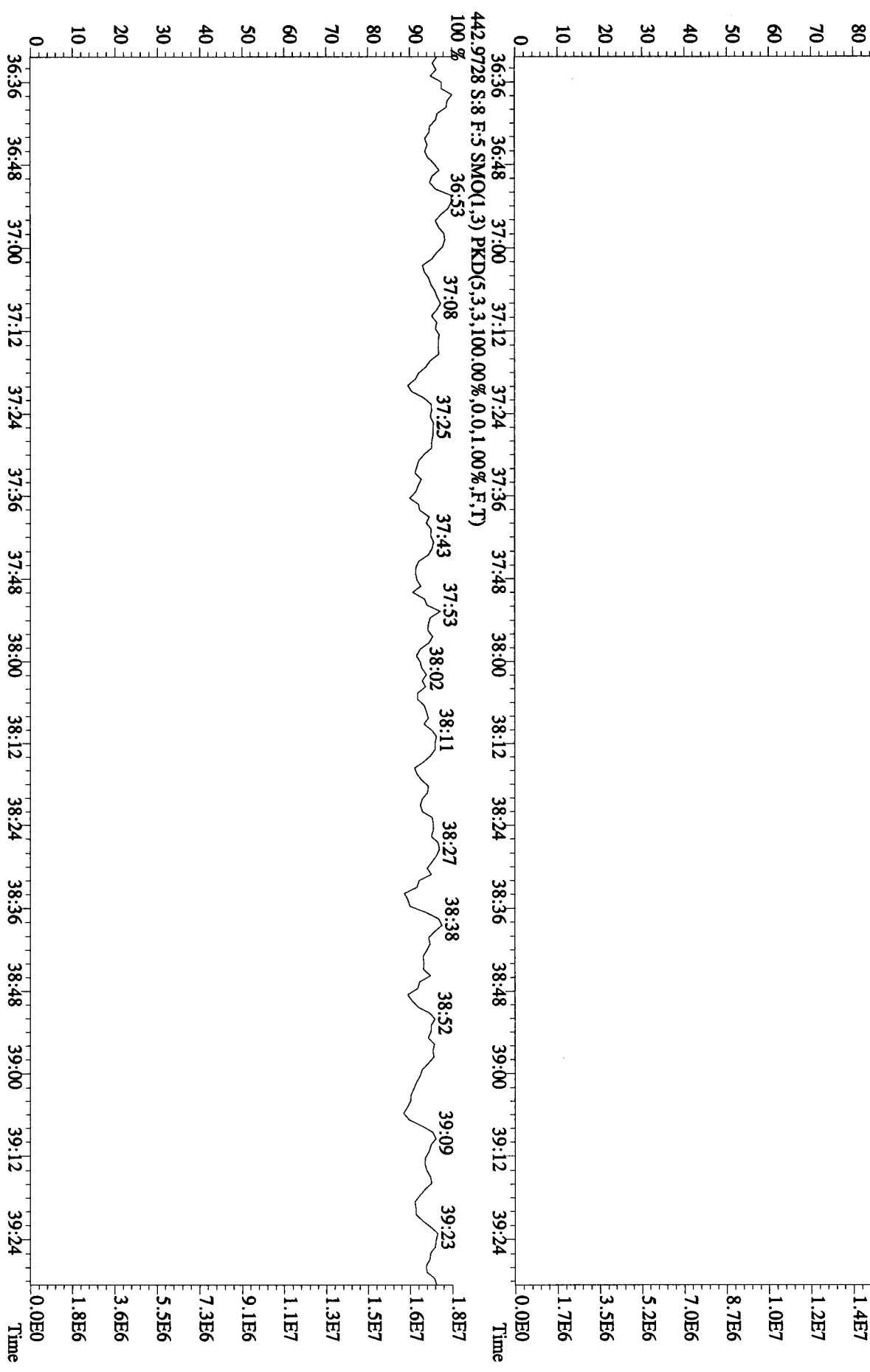
File:25AU10AID5 #1-196 Acq:26-AUG-2010 02:52:30 GC EI + Voltage SIR 70SE  
 Exp:DIOXINRES

Sample#8 Text:L507F-1-AA :G0H210471-2

454.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 36:42 36:56 37:08 37:26 37:37

37:55 38:10 38:27 38:38 38:59 39:09 39:25



1.7E7  
1.6E7  
1.4E7  
1.2E7  
1.0E7  
8.7E6  
7.0E6  
5.2E6  
3.5E6  
1.7E6  
0.0E0

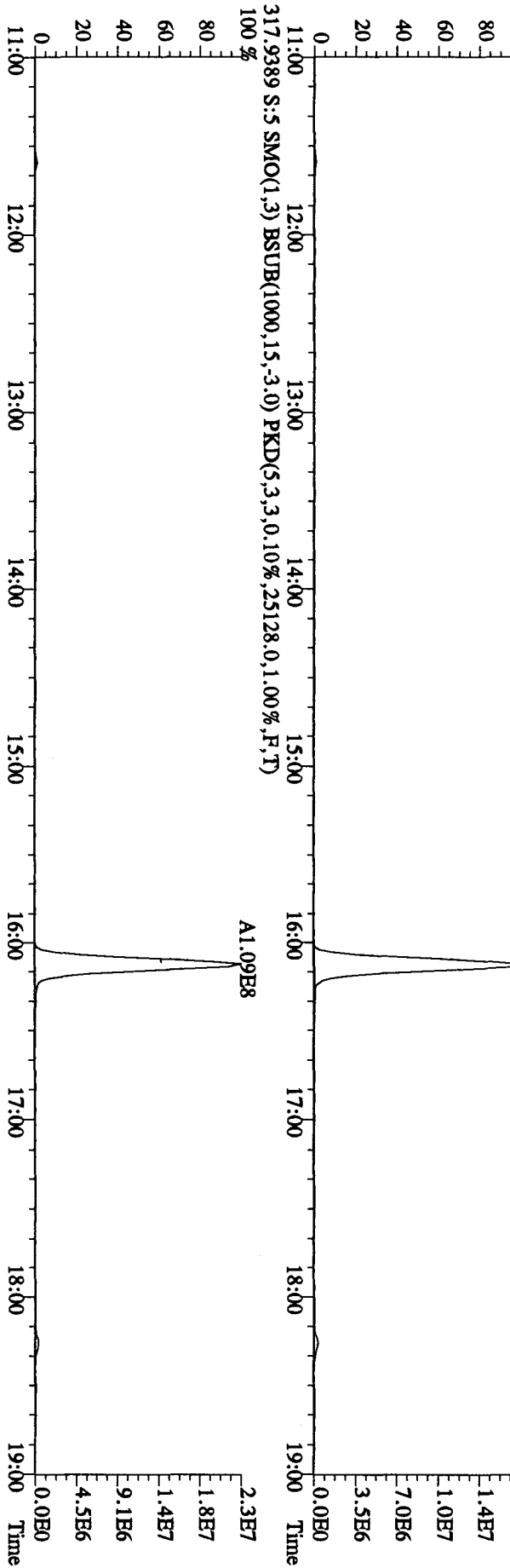
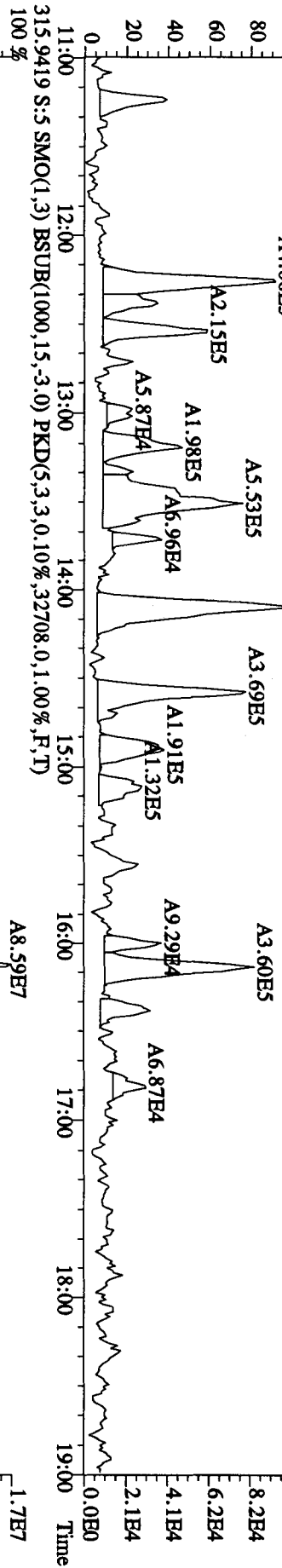
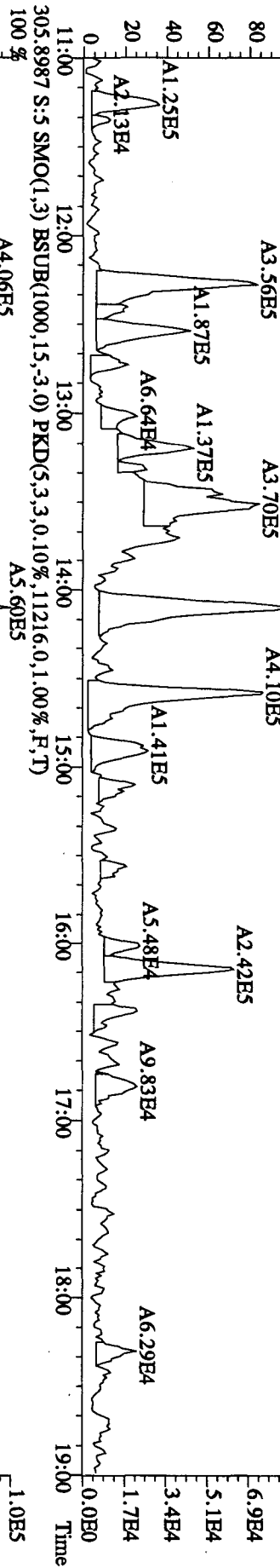
1.8E7  
1.6E7  
1.5E7  
1.3E7  
1.1E7  
9.1E6  
7.3E6  
5.5E6  
3.6E6  
1.8E6  
0.0E0

Run text: L507F-1-AA Sample text: L507F-1-AA :G0H210471-2  
 Run #8 Filename: 29AU10A5D2 S: 5 I: 1 Results: 29AU10A5D2DB225AIR  
 Acquired: 29-AUG-10 23:56:29 Processed: 30-AUG-10 09:34:12  
 Run: 29AU10A5D2 Analyte: DB225AIR Cal: DB225AIR0726105D2  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Samp

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	122412000	0.80 y	14:56	-	207.30	-	-	n
13C-2,3,7,8-TCDF	194644800	0.79 y	16:07	2.11	3012.44	12.68	75.3	n
2,3,7,8-TCDF	602151	0.67 y	16:09	1.06	11.72 <i>S</i>	5.39	-	n
13C-2,3,7,8-TCDD	95948900	0.78 y	14:39	0.88	3543.82	24.22	88.6	n
2,3,7,8-TCDD	*	* n	NotFnd	1.64	*	6.45	-	n
37Cl-2,3,7,8-TCDD	90019200	1.00 y	14:40	1.29	2280.90	9.95	142.6	n

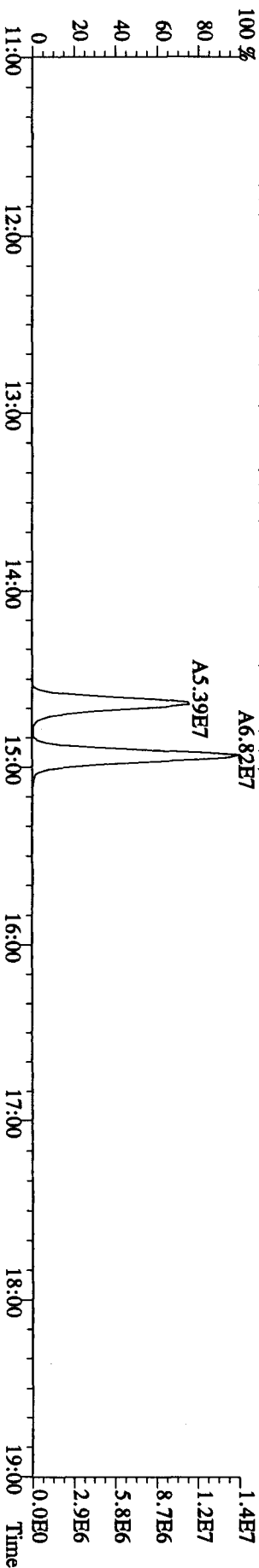
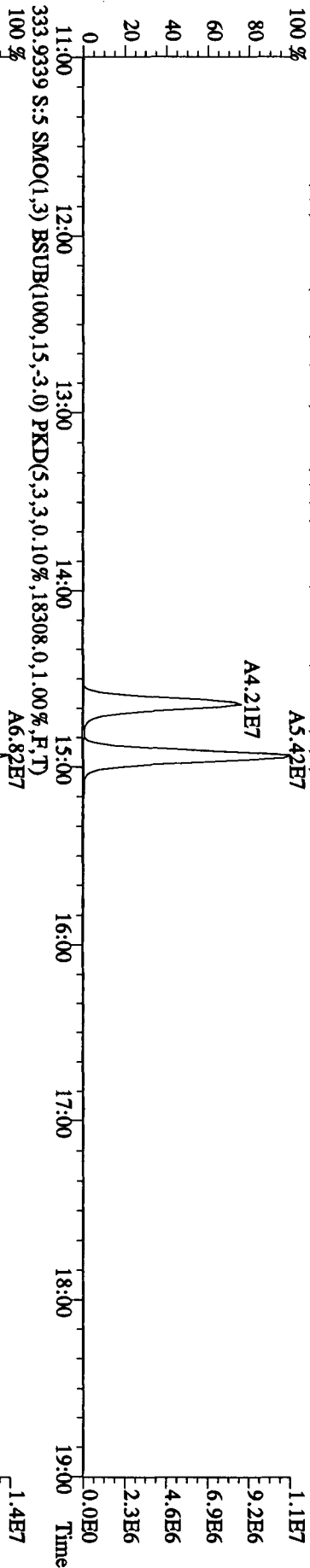
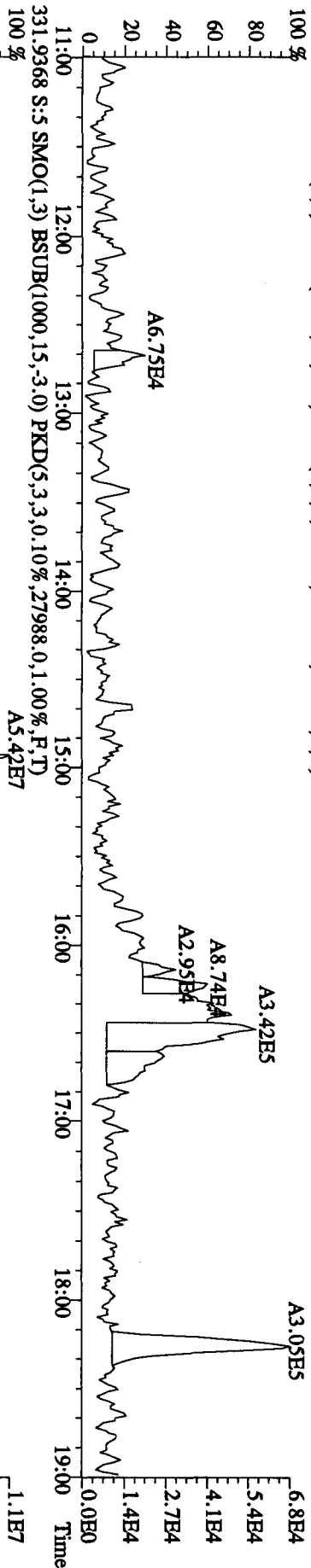
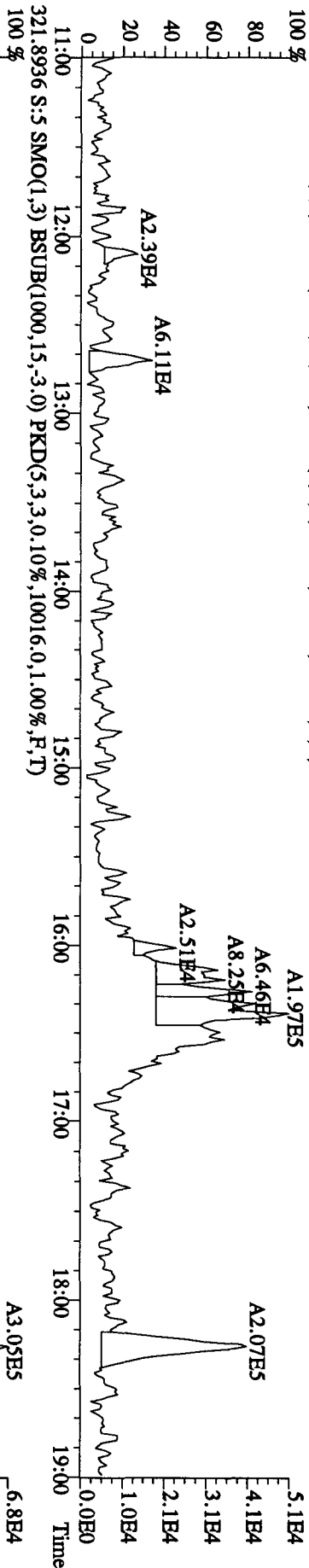
*AK 8/30/10*

File:29AU10A5D2 #1-1242 Acq:29-AUG-2010 23:56:29 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:L507F-1-AA :G0H210471-2 Exp:DB225RES  
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7708,0,1,00%,F,T)

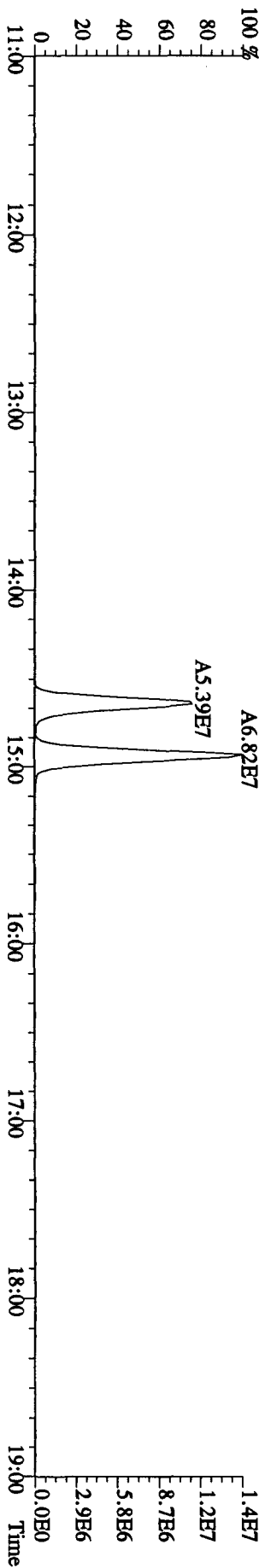
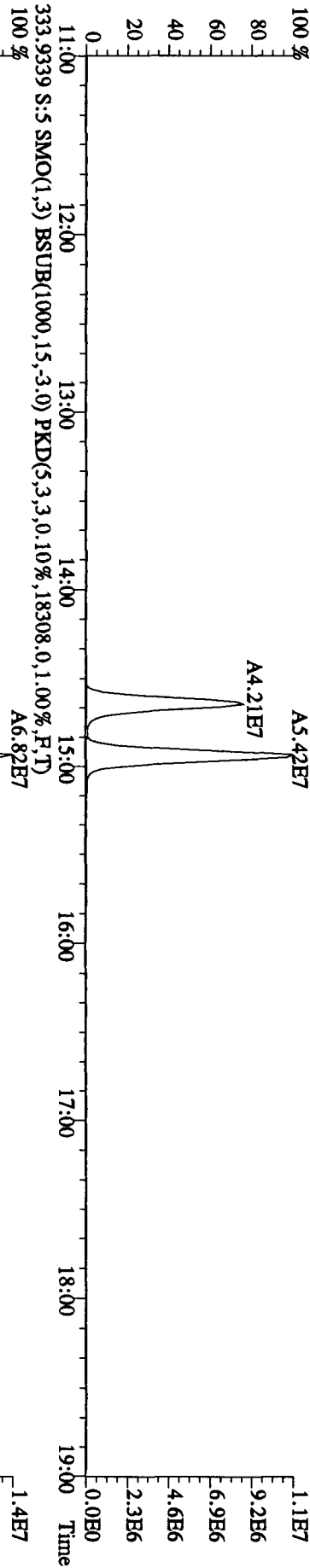
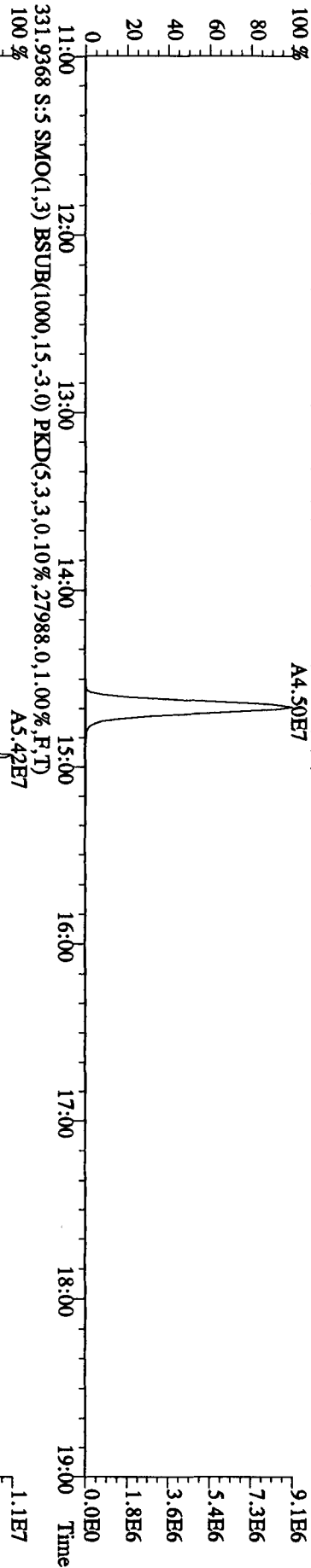
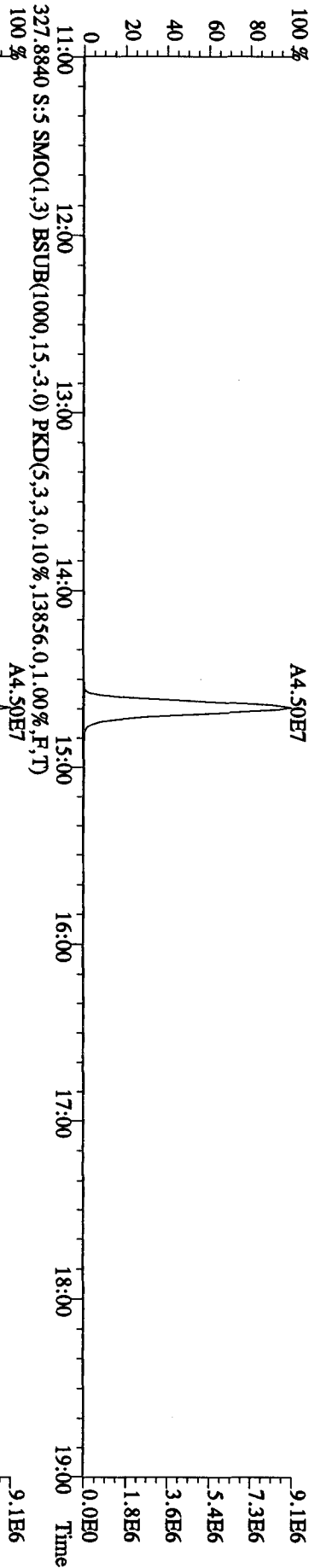




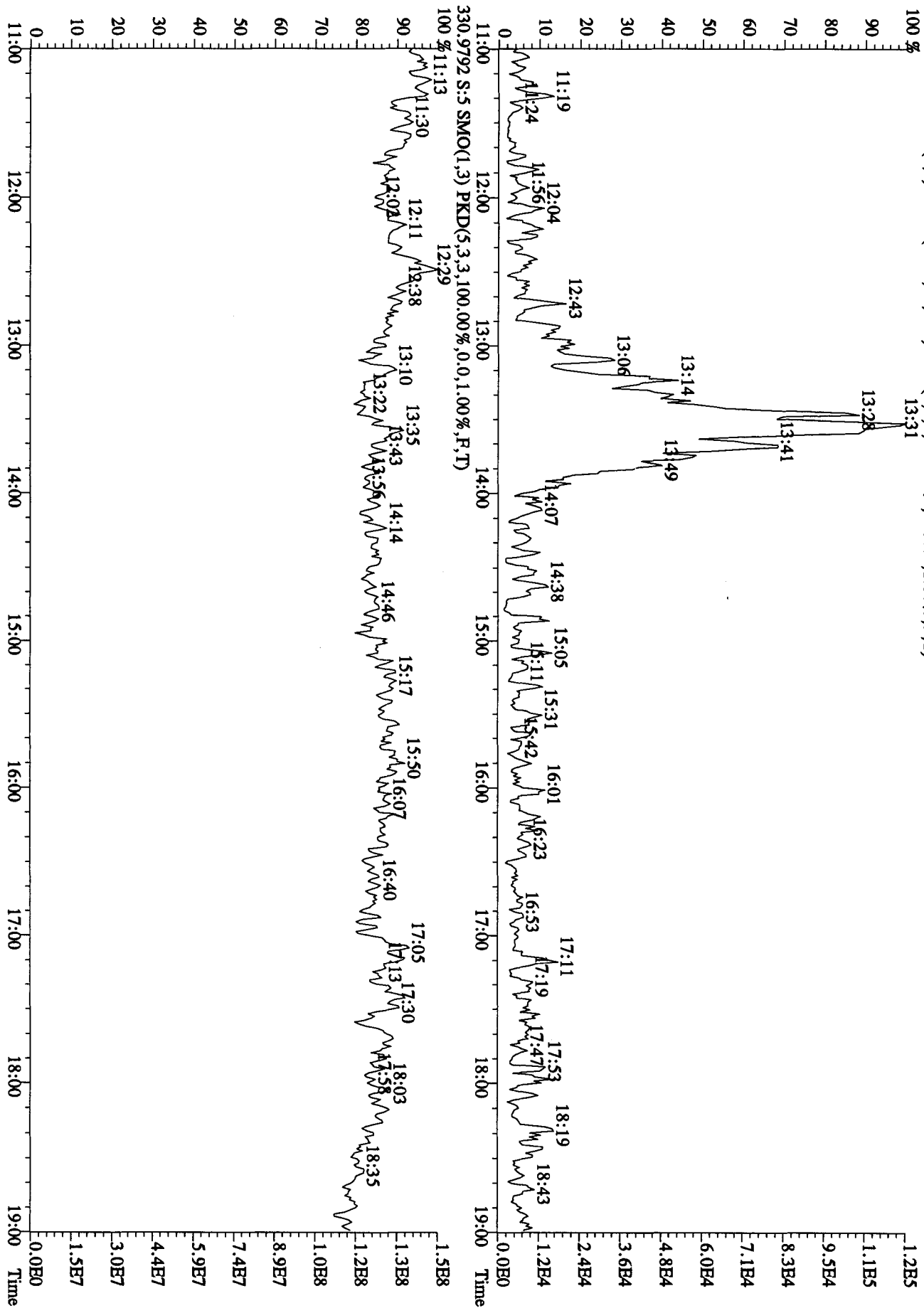
File:29AUT10A5D2 #1-1242 Acq:29-AUG-2010 23:56:29 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:L507F-1-AA :G0H210471-2 Exp:DB25RES  
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7320,0,1.00%,F,T) 100%



File:29AU10A5D2 #1-1242 Acq:29-AUG-2010 23:56:29 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:L507F-1-AA :G0H210471-2 Exp:DB25RES  
 327.8840 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,13856,0,1,00%,F,T)  
 100 % A4.50E7



File: 29AU10A5D2 #1-1242 Acq: 29-AUG-2010 23:56:29 GC EI+ Voltage SIR 70SE  
 Sample#5 Text: L507F-1-AA :G0H210471-2 Exp: DB25RES  
 375.8364 S:5 SMO(1,3) BSUB(1000,15-3.0) PKD(5,3,3,100.00%,8172.0,1.00%,F,T)



Run text: L507G-1-AA      Sample text: L507G-1-AA :G0H210471-3  
 Run #13 Filename: 25AU10A1D5 S: 9 I: 1 Results: 25AU10A1D5TO9  
 Acquired: 26-AUG-10 03:36:27 Processed: 26-AUG-10 15:08:24  
 Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5  
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 0.500000Sample

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	98709200	0.78 y	17:41	-	52.44	-	-	n
13C-2,3,7,8-TCDF	123272800	0.80 y	17:11	1.56	3198.71	2.06	80.0	n
2,3,7,8-TCDF	414207	0.72 y	17:13	0.87	J 15.36 <del>3198.71</del>	3.03	-	n
Total TCDF	2235932	0.41 n	14:46	0.87	82.92 <del>73.64</del>	3.03	-	n
13C-2,3,7,8-TCDD	80027200	0.79 y	17:52	0.94	3467.17	6.68	86.7	n
2,3,7,8-TCDD	*	* n	NotFnd	0.96	*	3.06	-	n
Total TCDD	162798	1.82 n	14:11	0.96	<del>8.50</del>	3.06	-	n
37Cl-2,3,7,8-TCDD	73912800	1.00 y	17:53	1.22	3037.60	3.07	189.8	n
13C-1,2,3,7,8-PeCDF	81118700	1.59 y	22:11	1.06	3095.43	2.73	77.4	n
1,2,3,7,8-PeCDF	208161	1.89 n	22:12	1.08	<del>9.50</del> <i>6.20</i>	6.20	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.98	*	6.83	-	n
Total F2 PeCDF	765426	1.41 y	20:51	1.03	<del>36.18</del> <i>19.56</i>	6.50	-	n
Total F1 PeCDF	267615	0.70 n	14:34	1.03	<del>12.81</del>	3.63	-	n
13C-1,2,3,7,8-PeCDD	43073500	1.71 y	24:13	0.65	2701.11	2.17	67.5	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.92	*	8.01	-	n
Total PeCDD	174539	2.06 n	22:13	0.92	<del>17.53</del>	8.01	-	n
13C-1,2,3,7,8,9-HxCDD	56953500	1.34 y	32:08	-	40.07	-	-	n
13C-1,2,3,4,7,8-HxCDF	60121700	0.51 y	30:22	0.99	4282.18	11.84	107.1	n
1,2,3,4,7,8-HxCDF	315506	1.35 y	30:21	<del>1.15</del> <i>1.23</i>	<del>17.02</del> <i>18.20</i>	5.34	-	n
1,2,3,6,7,8-HxCDF	244025	1.37 y	30:36	1.24	13.06 <i>J</i>	4.96	-	n
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.22	<i>see NCM</i> *	5.06	-	n
1,2,3,7,8,9-HxCDF	21484	0.44 n	32:22	1.19	<del>1.21</del>	5.20	-	n
Total HxCDF	1198243	1.64 n	27:42	1.20	<del>66.70</del> <i>58.47</i>	5.14	-	n
13C-1,2,3,6,7,8-HxCDD	43130900	1.33 y	31:47	0.77	3944.75	5.22	98.6	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.03	*	5.62	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.11	*	5.22	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.24	*	4.65	-	n
Total HxCDD	128239	0.93 n	27:46	1.13	<del>10.56</del>	<del>5.13</del> <i>5.62</i>	-	n
13C-1,2,3,4,6,7,8-HpCDF	43844700	0.44 y	33:57	0.98	3139.23	10.21	78.5	n
1,2,3,4,6,7,8-HpCDF	462860	1.64 n	33:58	1.35	31.29 <i>JQ</i>	3.21	-	n
1,2,3,4,7,8,9-HpCDF	110371	1.75 n	35:13	1.19	8.49 <i>JQ</i>	3.65	-	n
Total HpCDF	866701	1.64 n	33:58	1.27	<del>60.89</del> <i>59.10</i>	3.41	-	n
13C-1,2,3,4,6,7,8-HpCDD	36401700	1.08 y	34:52	0.81	3173.11	7.84	79.3	n
1,2,3,4,6,7,8-HpCDD	39504	0.47 n	34:52	1.03	4.23 <i>LS/N PL</i>	3.87	-	n
Total HpCDD	258570	2.09 n	33:57	1.03	<del>27.68</del> <i>9.23</i>	3.87	-	n
13C-OCDD	46231400	0.91 y	37:31	0.62	5278.47	4.09	66.0	n
OCDF	780678	0.91 y	37:38	1.44	93.49 <i>J</i>	6.20	-	n
OCDD	119181	0.68 n	37:31	1.09	18.91 <i>JQ</i>	6.84	-	n

Run Text: L507G-1-AA

Sample text: L507G-1-AA :G0H210471-3

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:12  
 Run: 13 File: 25AU10A1D5 S:9 Acq:26-AUG-10 03:36:27  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 41.46 of which 7.68 named and 33.78 unnamed  
 Conc: 82.92 of which 15.36 named and 67.56 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:46	0.41	n 2.38	27338 66532	3.1 2.8	y	n
	2	15:03	0.93	n 2.77	39040 42170	2.9 2.2	n	n
	3	15:12	0.61	n 2.33	27375 45027	2.3 2.9	n	n
	4	15:32	0.94	n 15.53	223457 236594	25.1 10.6	y	n
	5	15:45	0.92	n 8.89	124525 135437	14.0 7.0	y	n
	6	16:04	0.88	y 8.66	109516 124117	8.5 4.3	y	n
	7	16:17	1.37	n 6.84	142973 104145	13.2 5.5	y	n
	8	16:32	1.23	n 5.11	95405 77816	8.4 3.0	y	n
	9	16:39	1.01	n 5.24	80727 79900	11.4 3.1	y	n
	10	16:48	0.64	n 8.01	93979 146014	10.2 5.7	y	n
2,3,7,8-TCDF	11	17:13	0.72	y 15.36	173590 240617	21.3 9.4	y	n
	12	19:01	0.97	n 1.84	27172 28059	3.3 1.3	y	n

Run Text: L507G-1-AA

Sample text: L507G-1-AA :G0H210471-3

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:6  
 Run: 13 File: 25AU10A1D5 S:9 Acq:26-AUG-10 03:36:27  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 4.25 of which \* named and 4.25 unnamed  
 Conc: 8.50 of which \* named and 8.50 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:11	1.82	n 1.73	34027 18715	5.4 2.2	y n	n n
	2	15:39	0.44	n 1.38	11481 25880	1.4 2.6	n n	n n
	3	16:56	0.76	y 1.32	10886 14387	1.8 1.5	n n	n n
	4	18:16	0.53	n 1.22	10200 19320	1.2 1.9	n n	n n
	5	19:13	0.81	y 1.30	11086 13745	1.7 0.9	n n	n n
	6	19:31	1.53	n 1.55	25769 16797	2.9 2.1	n n	n n

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Run Text: L507G-1-AA

Sample text: L507G-1-AA :G0H210471-3

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:4  
 Run: 13 File: 25AU10A1D5 S:9 Acq:26-AUG-10 03:36:27  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 18.09 of which 4.75 named and 13.34 unnamed  
 Conc: 36.18 of which 9.50 named and 26.68 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	20:51	1.41	y 19.56	238969 169650	9.2 4.9	y y	n n
	2	21:44	3.00	n 4.12	101336 33769	5.2 1.8	y n	n n
1,2,3,7,8-PeCDF	3	22:12	1.89	n 9.50	154670 81632	5.8 2.8	y n	n n
	4	23:51	0.66	n 2.99	38011 57223	2.0 1.6	n n	n n

Run Text: L507G-1-AA

Sample text: L507G-1-AA :G0H210471-3

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:4  
 Run: 13 File: 25AU10A1D5 S:9 Acq:26-AUG-10 03:36:27  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 6.41 of which \* named and 6.41 unnamed  
 Conc: 12.81 of which \* named and 12.81 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:34	0.70 n	0.80	10108 14471	0.9 1.6	n n	n n
	2	15:16	0.26 n	1.54	19519 75215	2.3 7.3	n y	n n
	3	16:47	0.52 n	1.14	14423 27726	1.9 3.3	n y	n n
	4	19:16	1.62 y	9.34	120702 74443	9.0 5.1	y y	n n

Run Text: L507G-1-AA

Sample text: L507G-1-AA :G0H210471-3

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:6  
 Run: 13 File: 25AU10A1D5 S:9 Acq:26-AUG-10 03:36:27  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 8.76 of which \* named and 8.76 unnamed  
 Conc: 17.53 of which \* named and 17.53 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	22:13	2.06 n	4.25	34110 16587	2.3 3.1	n y	n n
	2	22:24	1.87 n	2.28	16680 8913	2.0 1.2	n n	n n
	3	22:29	2.36 n	2.28	21012 8913	1.9 1.2	n n	n n
	4	22:47	1.26 n	2.12	12842 10225	1.1 1.9	n n	n n
	5	23:30	2.16 n	1.95	16431 7612	1.7 1.4	n n	n n
	6	23:53	4.20 n	4.64	76137 18136	5.6 2.8	y n	n n

Run Text: L507G-1-AA

Sample text: L507G-1-AA :G0H210471-3

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:10  
 Run: 13 File: 25AU10A1D5 S:9 Acq:26-AUG-10 03:36:27  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

Amount: 33.35 of which 16.23 named and 17.11 unnamed  
 Conc: 66.70 of which 32.47 named and 34.23 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N >?	Mod?
	1	27:42	1.64 n	9.05	119683 72860	5.0 4.9	y n y n
	2	28:09	0.90 n	18.16	181310 201277	7.4 9.0	y n y n
	3	28:56	0.49 n	1.13	11280 23071	0.9 2.3	n n n n
	4	29:00	2.26 n	1.01	18257 8092	1.6 1.1	n n n n
	5	29:05	2.13 n	1.01	17216 8092	1.7 1.1	n n n n
	6	29:22	3.51 n	0.80	22763 6479	2.2 0.9	n n n n
1,2,3,4,7,8-HxCDF	7	30:21	1.35 y	18.20	181005 134501	8.9 6.1	y n y n
1,2,3,6,7,8-HxCDF	8	30:36	1.37 y	13.06	141026 102999	7.6 6.6	y n y n
	9	31:21	1.07 y	3.07	28616 26736	2.2 2.5	n n n n
1,2,3,7,8,9-HxCDF	10	32:22	0.44 n	1.21	11893 27201	1.2 3.1	n n y n



Run Text: L507G-1-AA

Sample text: L507G-1-AA :G0H210471-3

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:5  
 Run: 13 File: 25AU10A1D5 S:9 Acq:26-AUG-10 03:36:27  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 5.28 of which \* named and 5.28 unnamed  
 Conc: 10.56 of which \* named and 10.56 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:46	0.93	n 2.33	15663 16791	2.2 2.1	n	n
	2	29:51	0.38	n 1.47	9881 26150	1.3 3.1	n	y
	3	29:58	0.75	n 1.68	11316 15112	1.6 1.5	n	n
	4	30:25	1.92	n 4.50	46714 24368	2.5 1.1	n	n
	5	32:38	0.21	n 0.58	3912 18460	0.5 1.4	n	n

Run Text: L507G-1-AA

Sample text: L507G-1-AA :G0H210471-3

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:6  
 Run: 13 File: 25AU10A1D5 S:9 Acq:26-AUG-10 03:36:27  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 30.45 of which 19.89 named and 10.56 unnamed  
 Conc: 60.89 of which 39.78 named and 21.12 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:58	1.64	n 31.29	372662 226892	35.9 33.4	y	n
	2	34:11	1.54	n 7.16	75209 48802	7.4 7.6	y	n
	3	34:19	0.86	n 12.17	86222 100227	9.4 10.6	y	n
	4	35:04	2.76	n 1.39	26075 9441	2.3 1.5	n	n
1,2,3,4,7,8,9-HpCDF	5	35:13	1.75	n 8.49	94576 54103	9.9 8.4	y	n
	6	35:58	5.49	n 0.40	14875	2.0	n	n

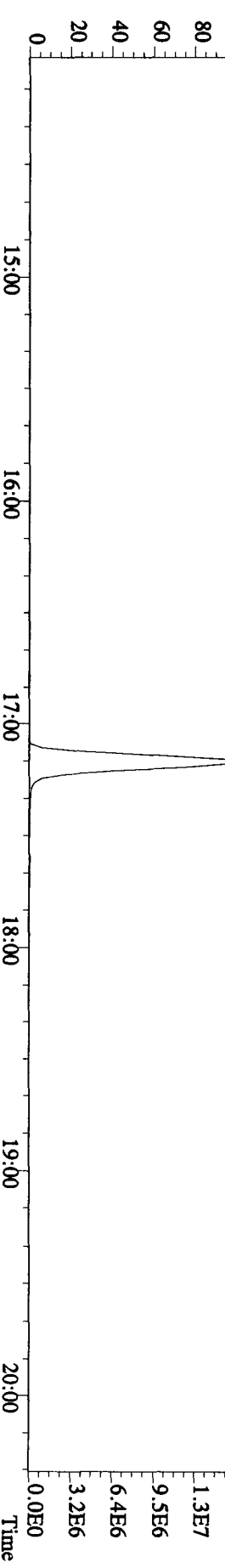
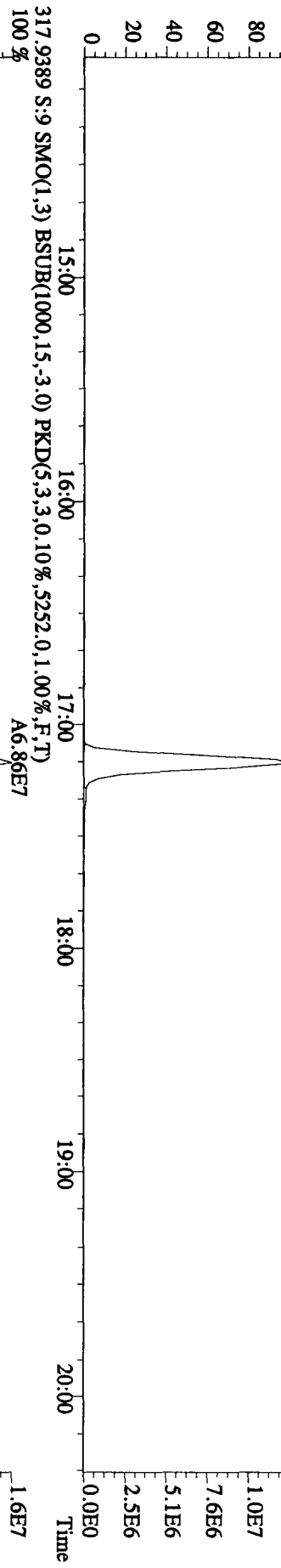
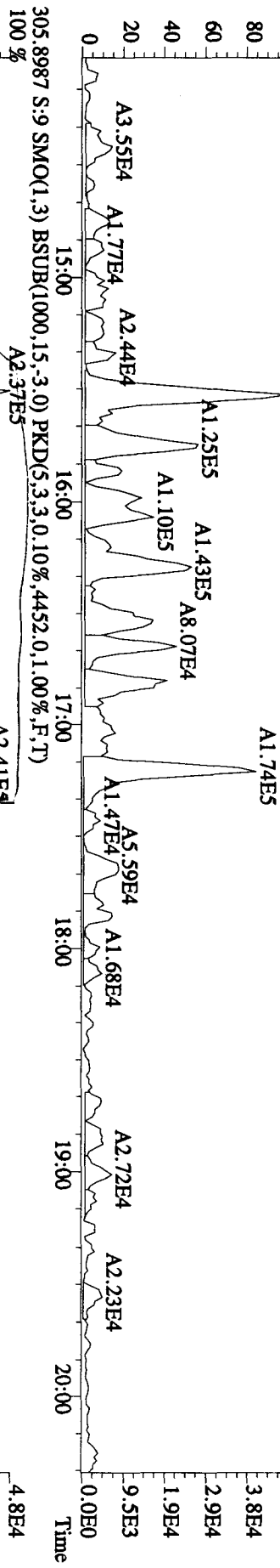
Run Text: L507G-1-AA

Sample text: L507G-1-AA :G0H210471-3

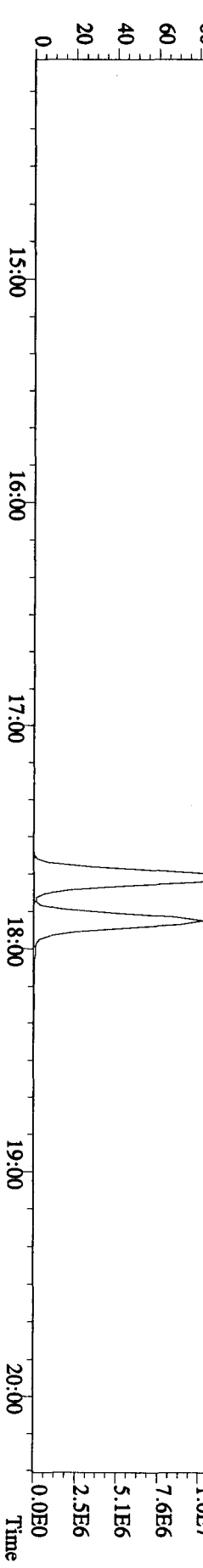
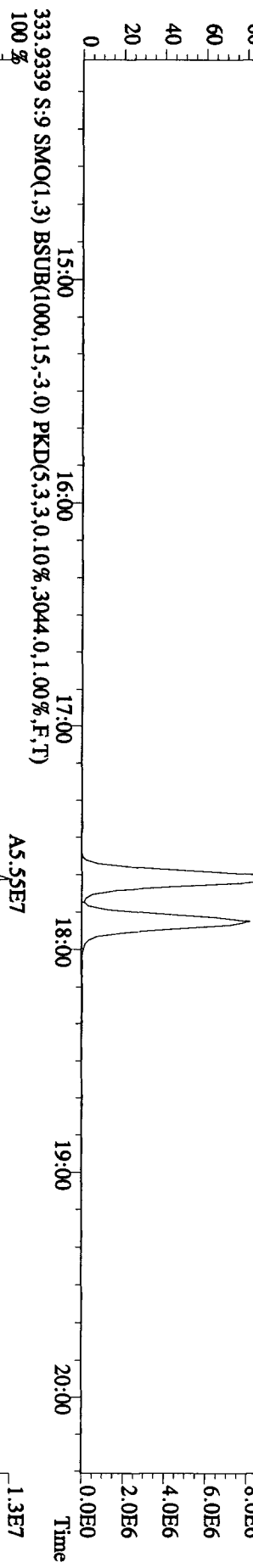
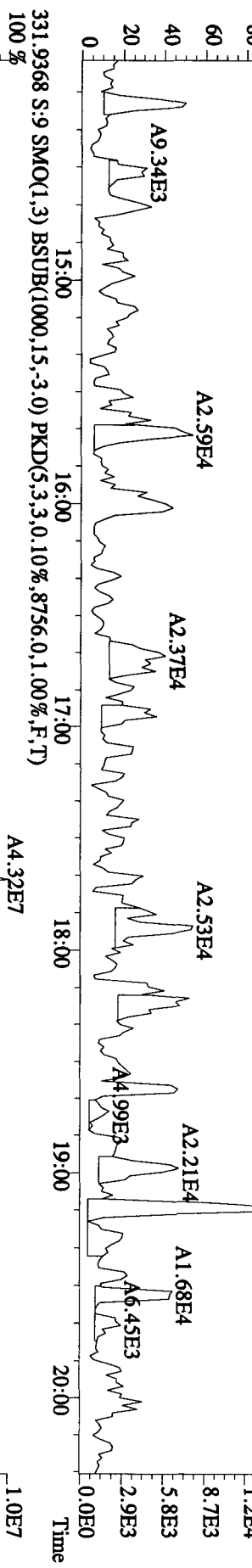
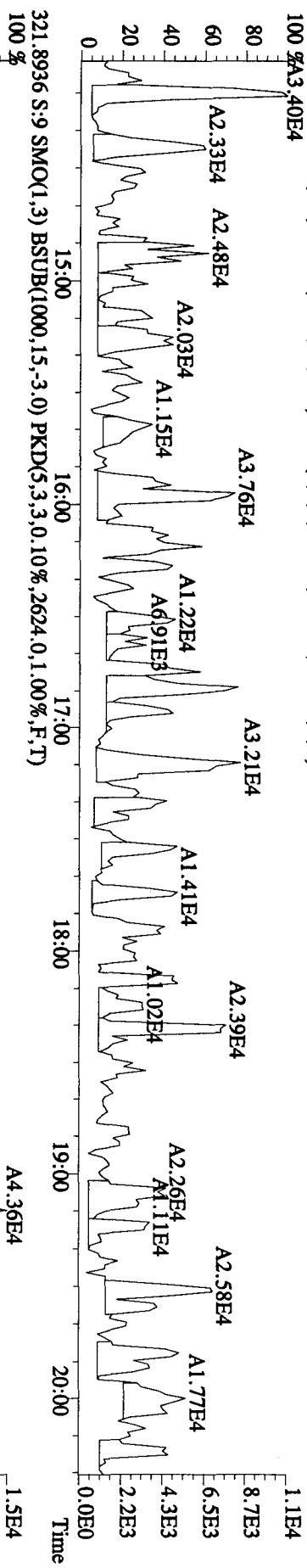
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:7  
 Run: 13 File: 25AU10A1D5 S:9 Acq:26-AUG-10 03:36:27  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

Amount: 13.84 of which 2.11 named and 11.73 unnamed  
 Conc: 27.68 of which 4.23 named and 23.45 unnamed

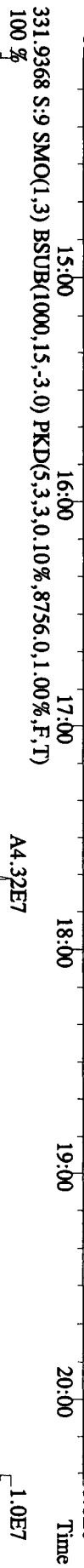
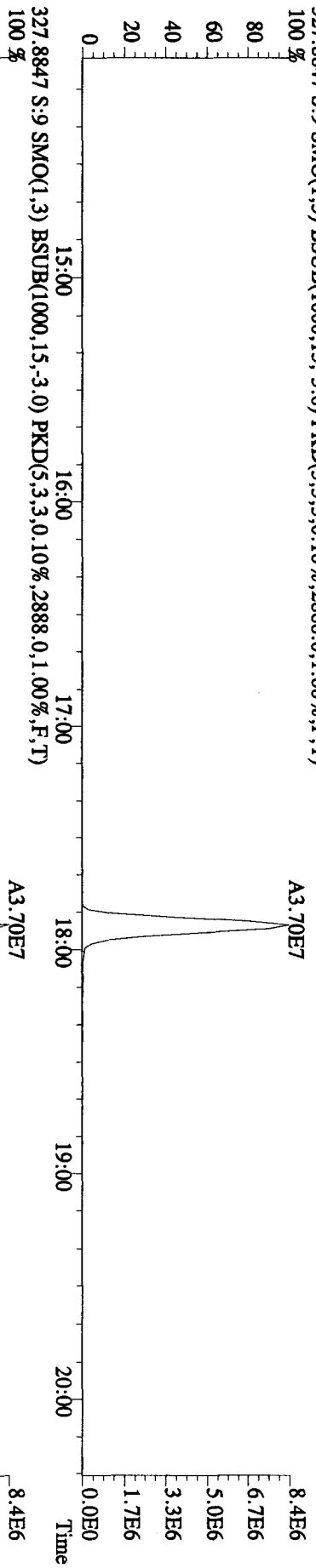
Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	33:57	2.09	n 2.30	22086 10548	2.1 2.3	n n	n n
	2	34:14	1.55	n 9.23	65377 42239	8.0 6.6	y y	n n
	3	34:36	1.30	n 1.79	10617 8175	1.6 1.9	n n	n n
1,2,3,4,6,7,8-HpCDD	4	34:52	0.47	n 4.23	20139 42515	3.3 6.2	y y	n n
	5	35:01	1.46	n 4.43	29689 20283	3.8 3.0	y y	n n
	6	35:12	0.78	n 3.30	15725 20240	2.6 3.9	n y	n n
	7	36:13	1.40	n 2.41	15451 11019	2.2 2.1	n n	n n



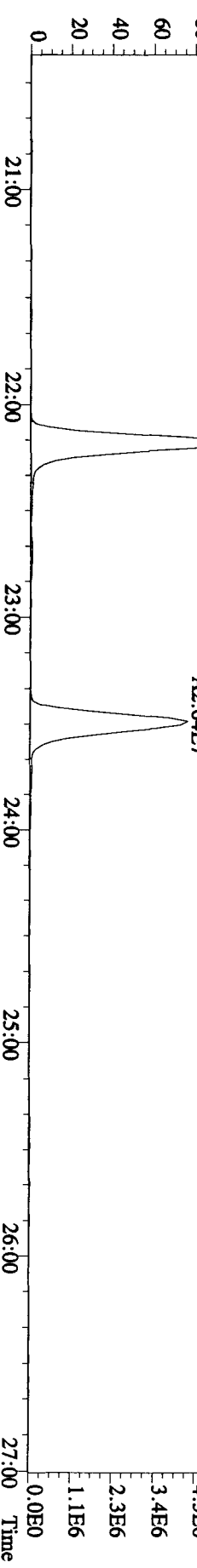
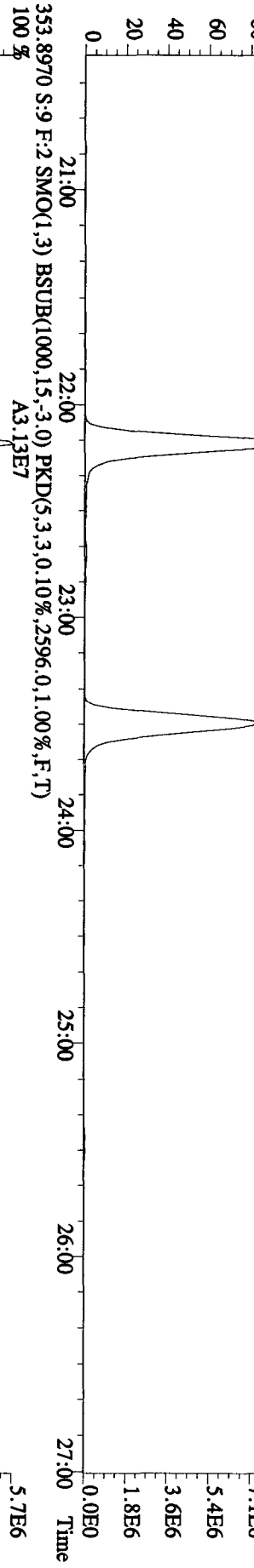
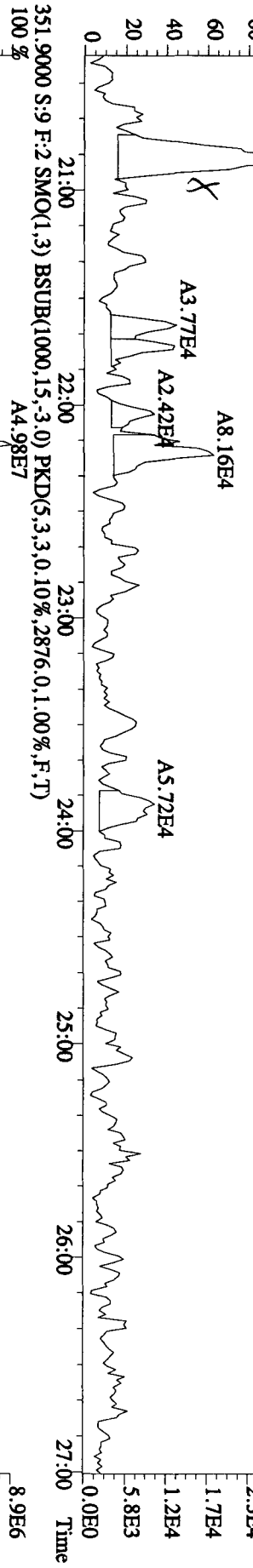
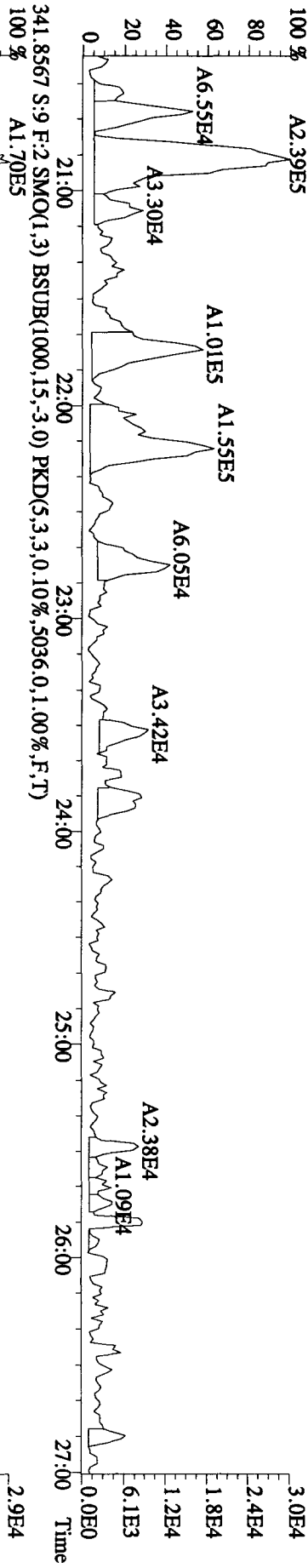
File:25AU10A1D5 #1-372 Acq:26-AUG-2010 03:36:27 GC EI+ Voltage SIR 70SE  
 Sample#9 Text:1.507G-1-AA :G0H210471-3 Exp:DIOXINRES  
 319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1900,0,1,00%,F,T)  
 100 #A3.40E4



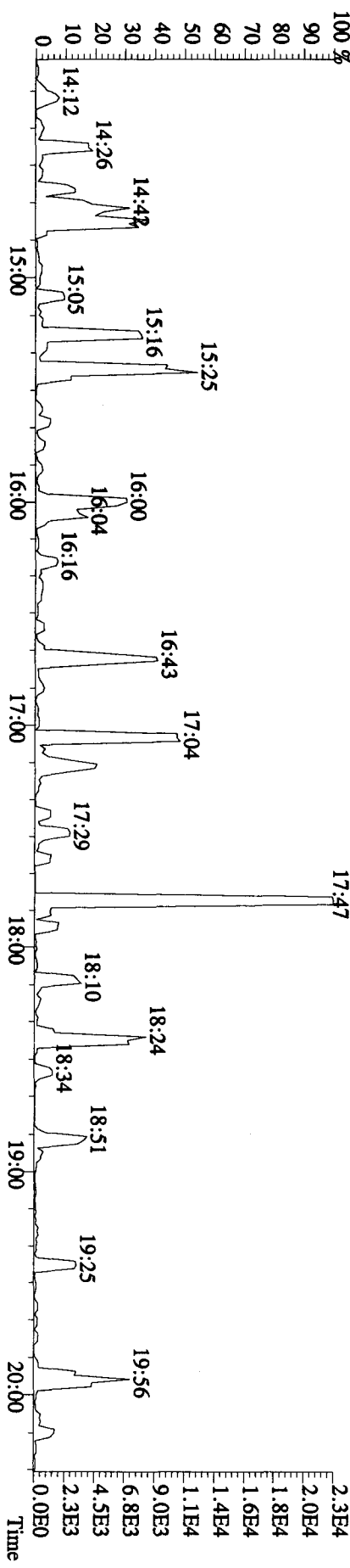
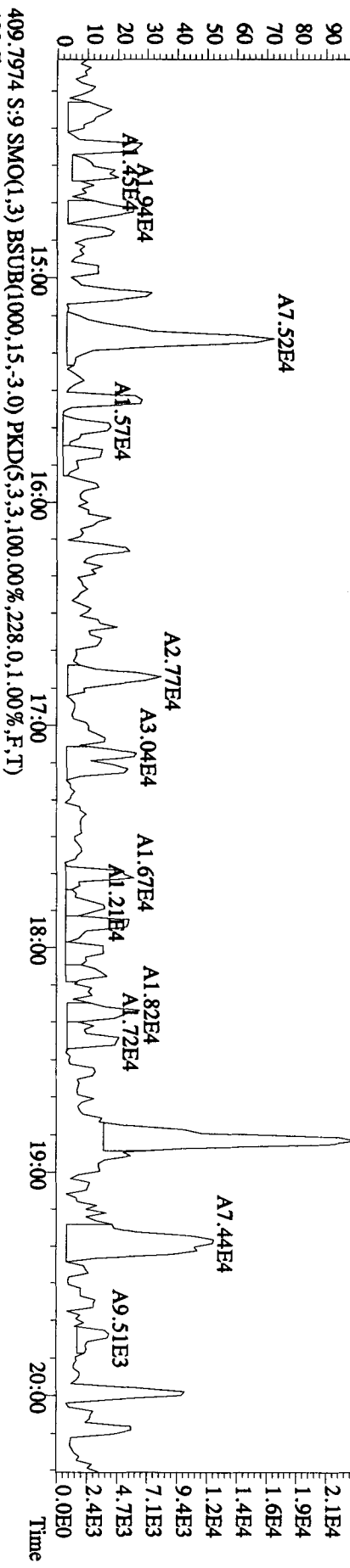
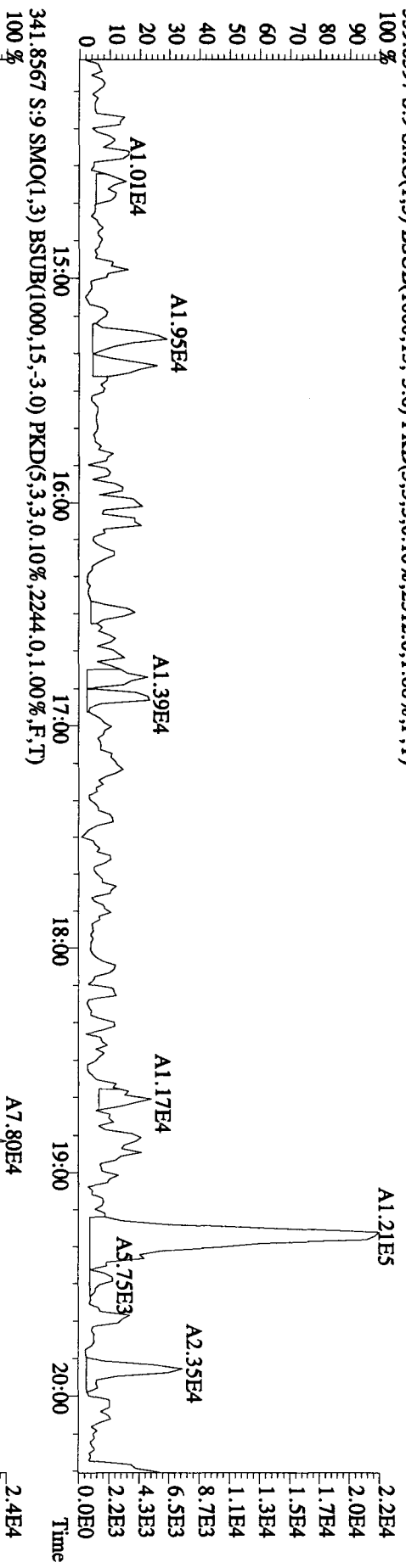
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 Sample#9 Text:L507G-1-AA :G0H210471-3 Exp:DIOXINRES  
 327.8847 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2888.0,1.00%,F,T)  
 100 %



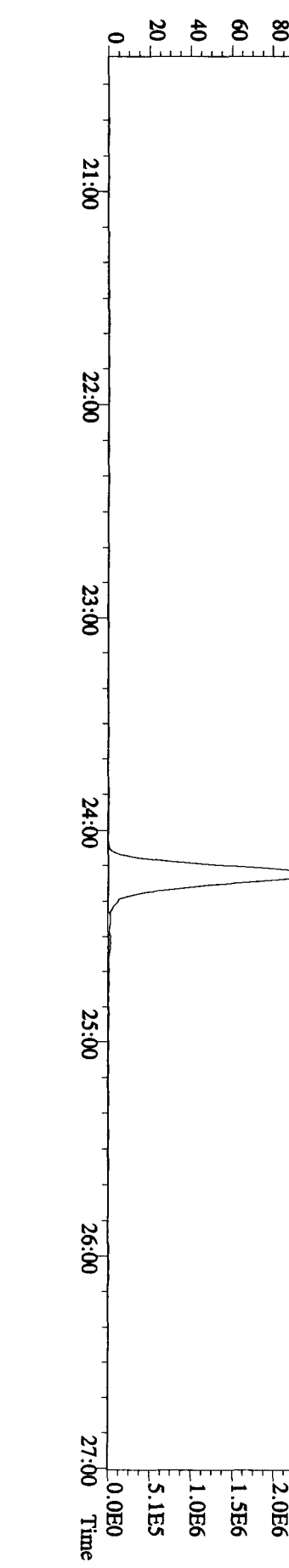
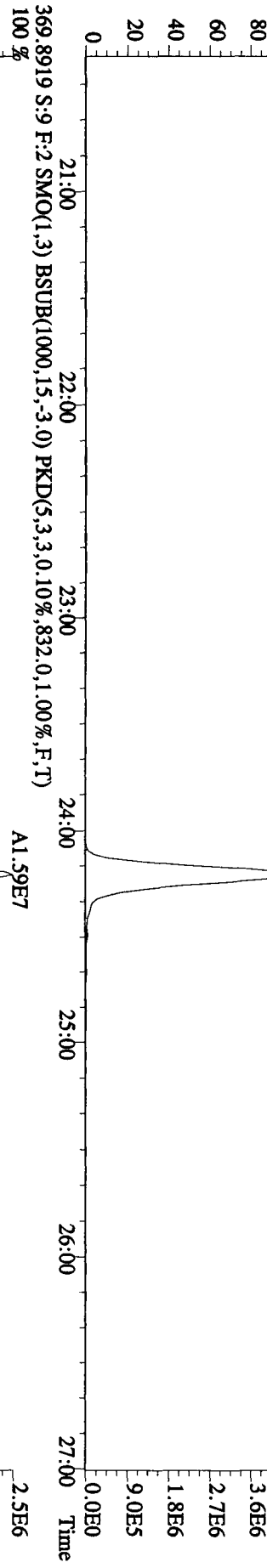
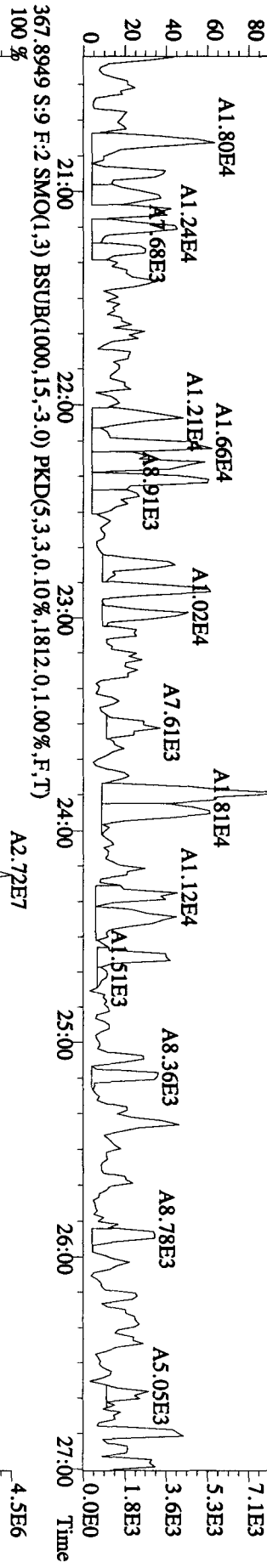
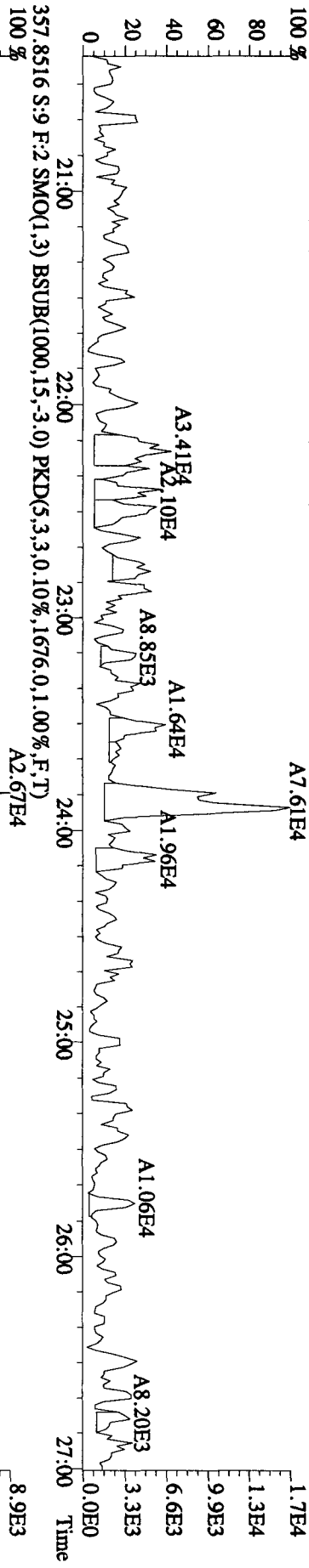
Sample#9 Text:L507G-1-AA :G0H210471-3  
339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.3120,0,1,00%,F,T)  
100% A2.39E5



File: 25AU10A1D5 #1-372 Acq: 26-AUG-2010 03:36:27 GC EI+ Voltage SIR 70SE  
 Sample#9 Text: L507G-1-AA : G0H210471-3 Exp: DIOXINES  
 339.8597 S:9 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2244.0,1.00%,F,T)

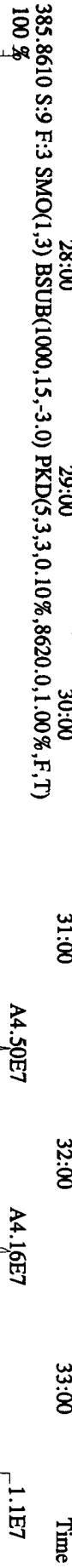
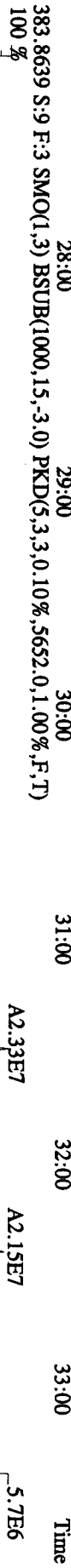
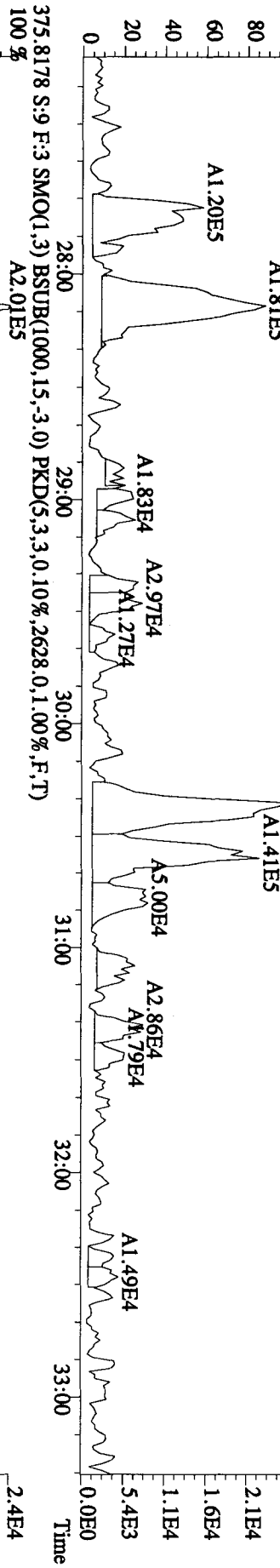


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355.8546 S:9 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2644,0,1,00%,F,T)

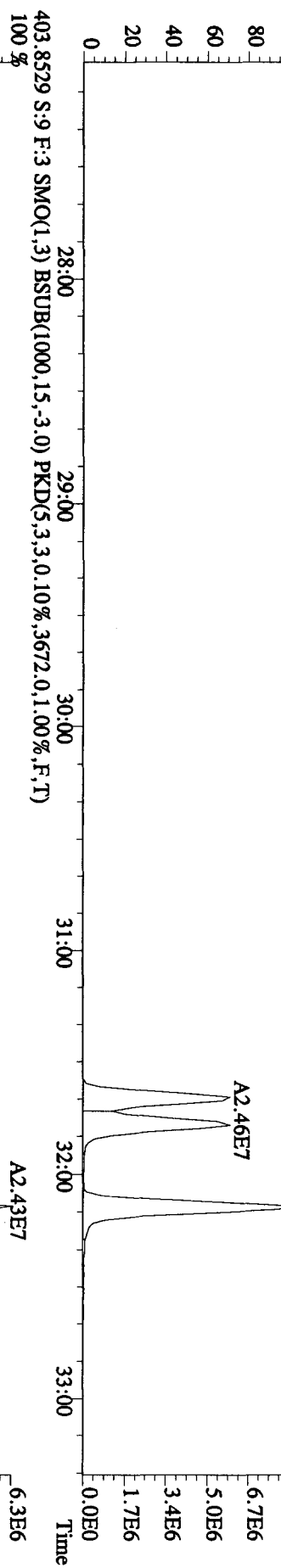
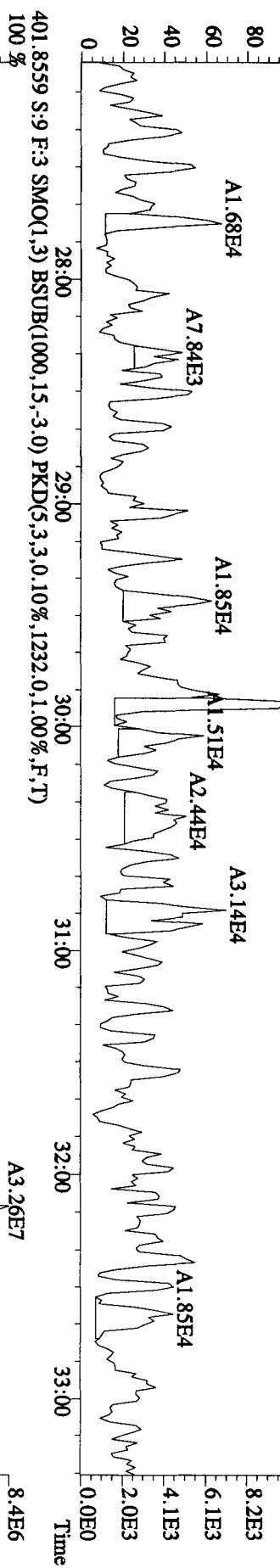
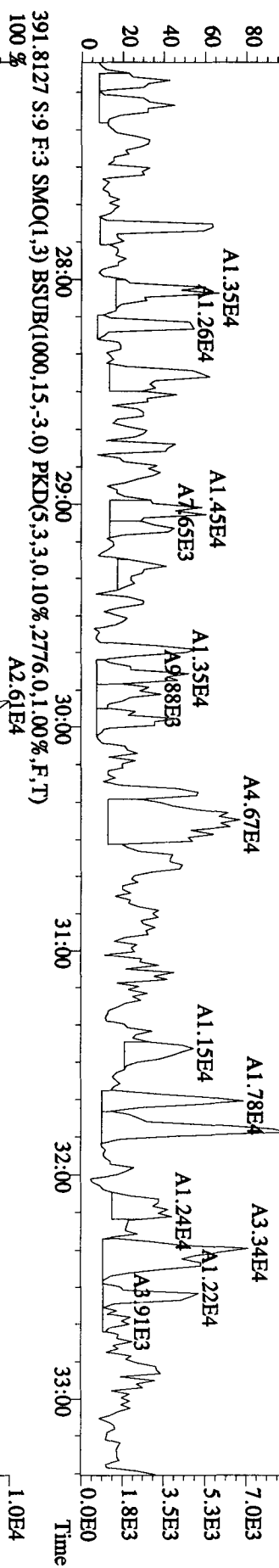




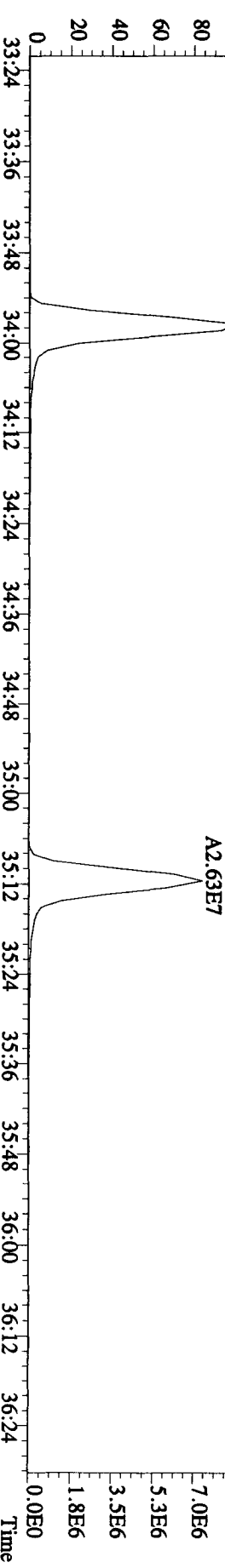
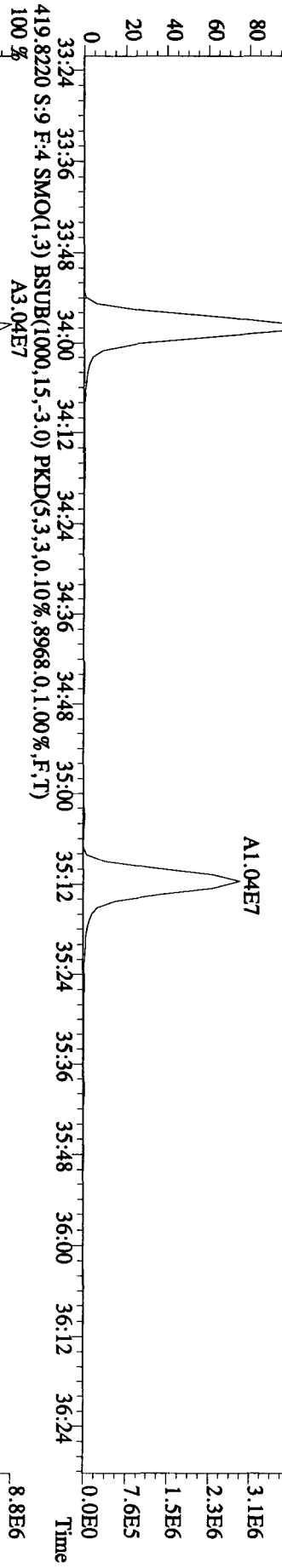
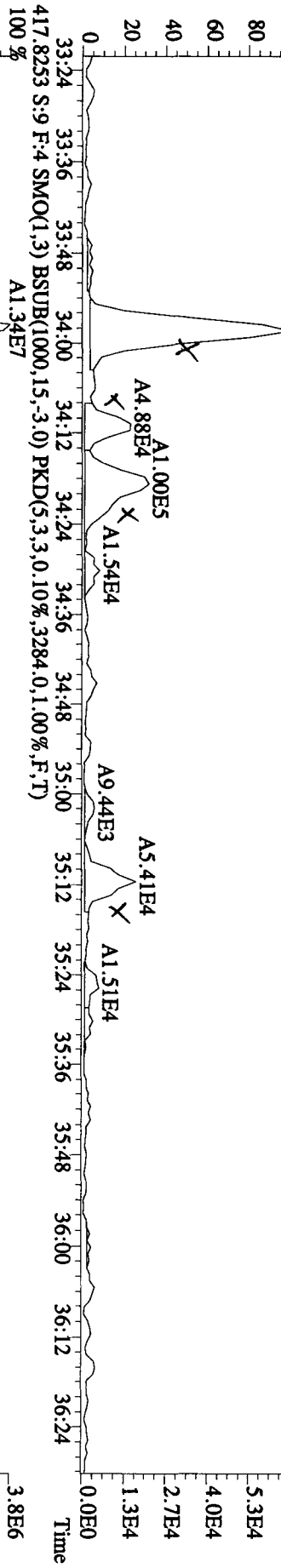
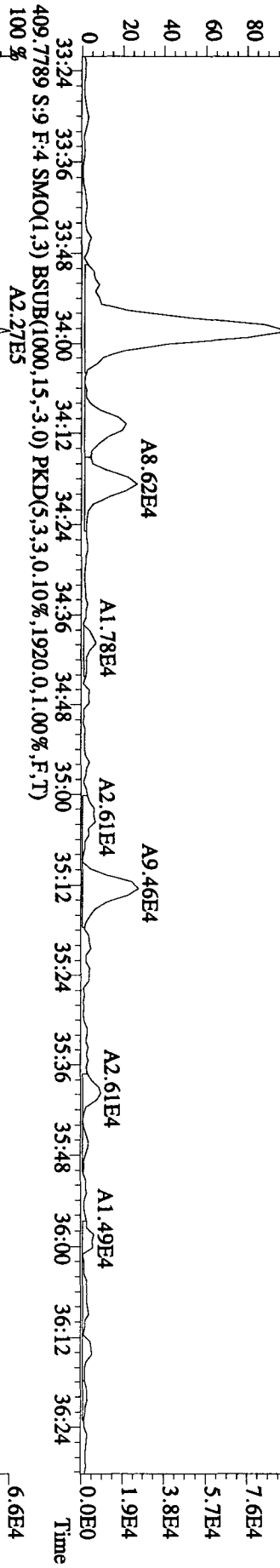
Sample#9 Text:L507G-1-AA :G0H210471-3  
373.8208 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2876,0,1,00%,F,T)



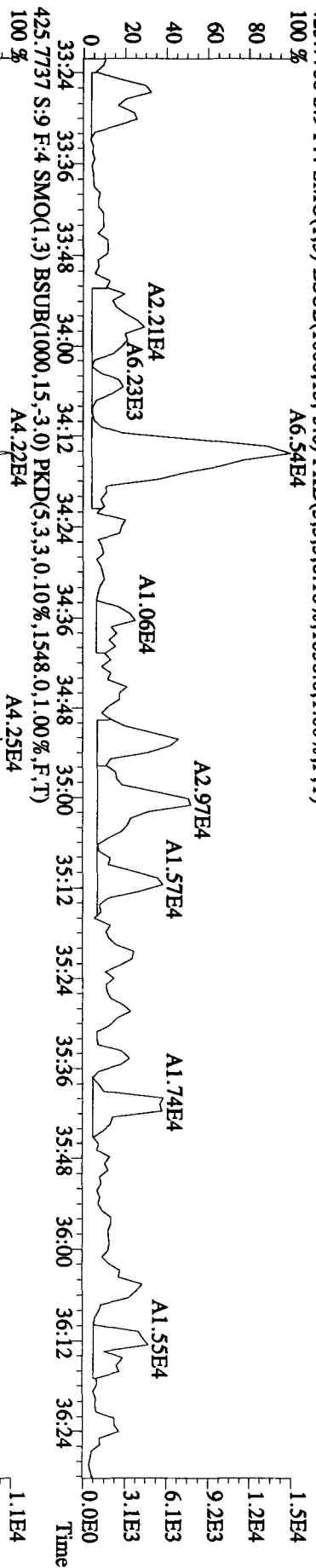
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 Sample#9 Text:1.507G-1-AA :G0H210471-3 Exp:DIOXINRES  
 389.8157 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2220,0,1.00%,F,T)  
 100 %



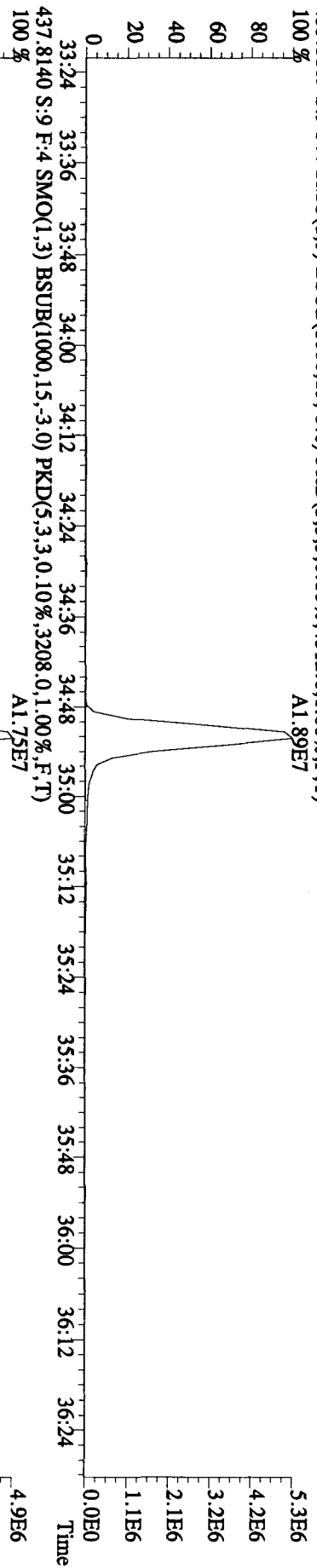
Sample#9 Text:L507G-1-AA :G0H210471-3  
407.7818 S:9 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2608,0.1,00%,F,T)  
100 %



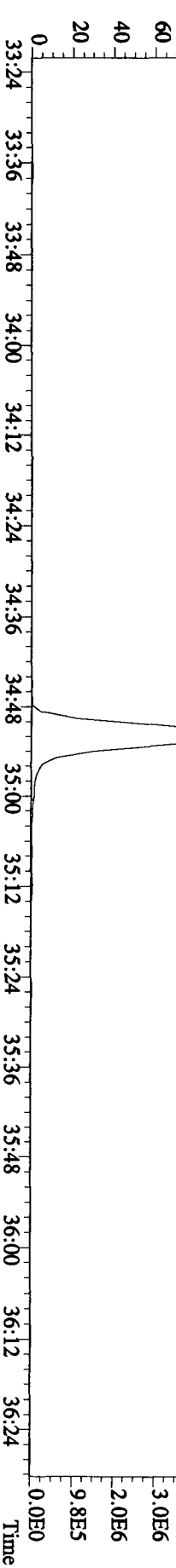
Sample#9 Text:L507G-1-AA :G0H210471-3  
423.7766 S:9 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1836,0,1,00%,F,T)  
100%



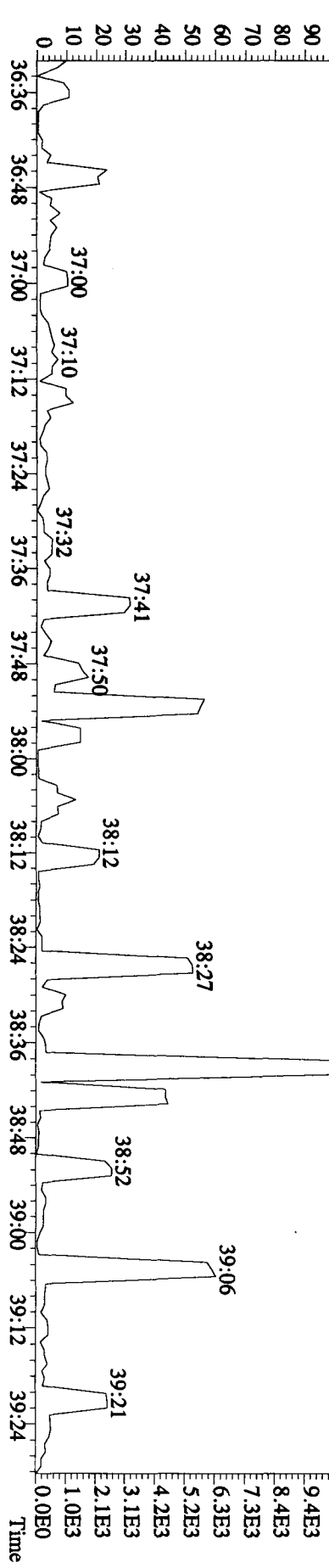
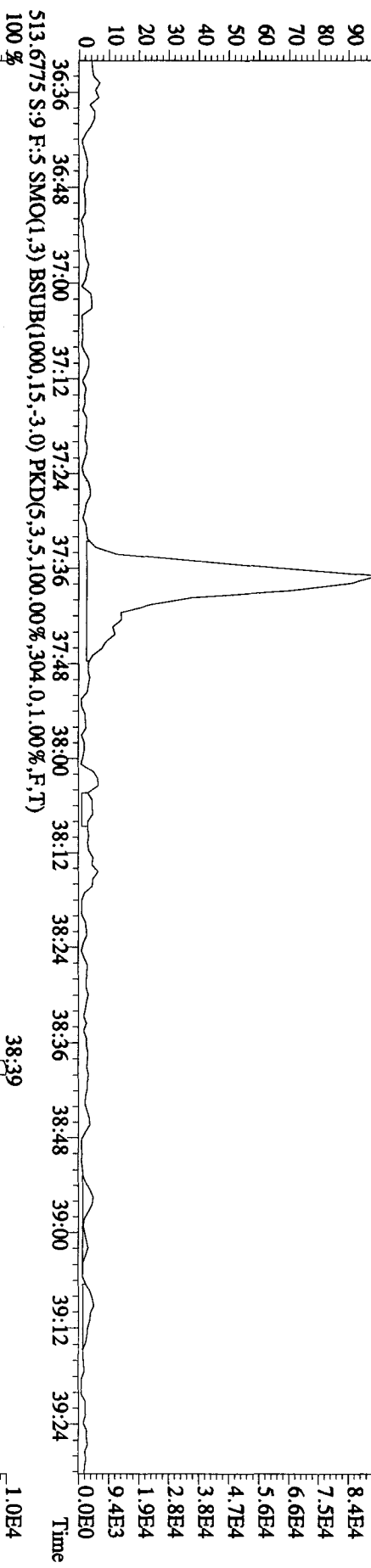
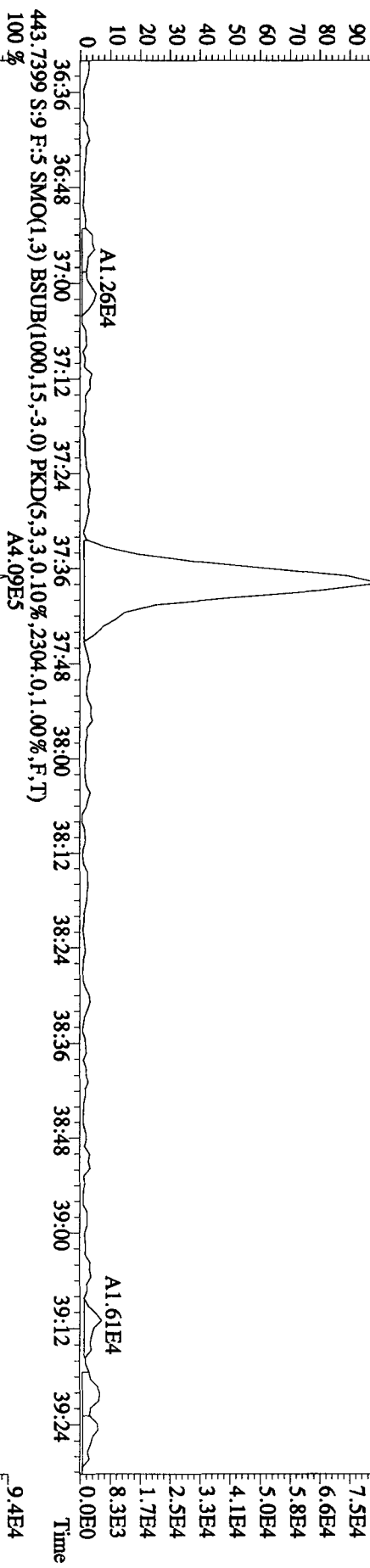
425.7737 S:9 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1548,0,1,00%,F,T)  
100%



437.8140 S:9 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3208,0,1,00%,F,T)  
100%



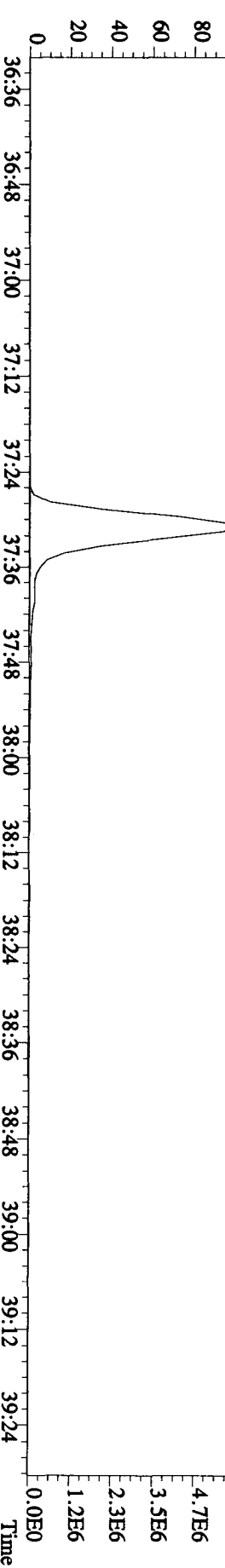
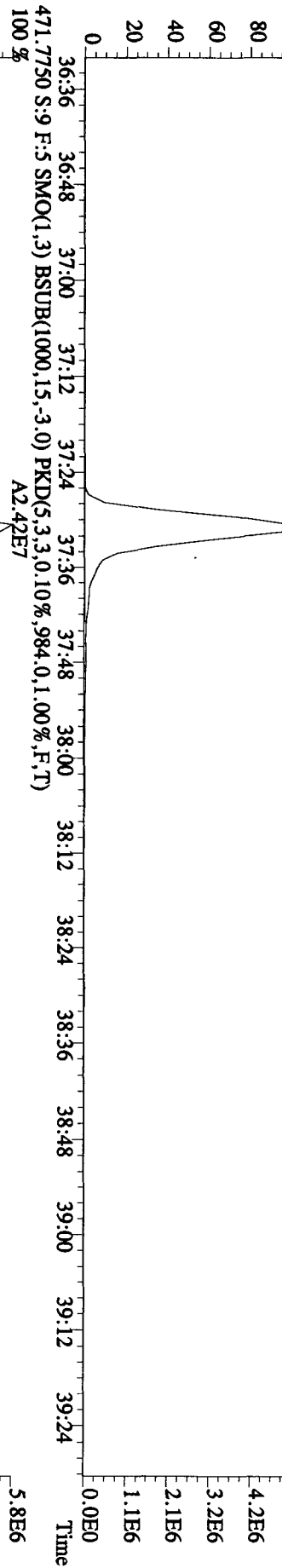
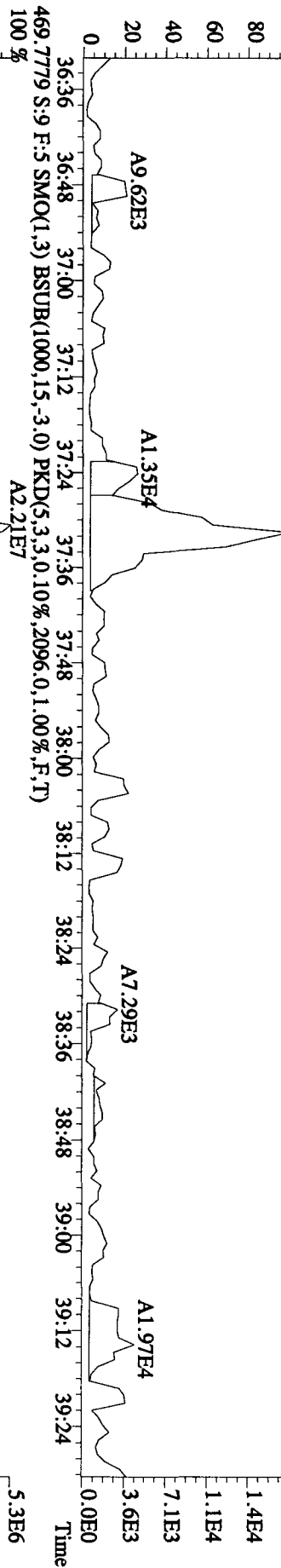
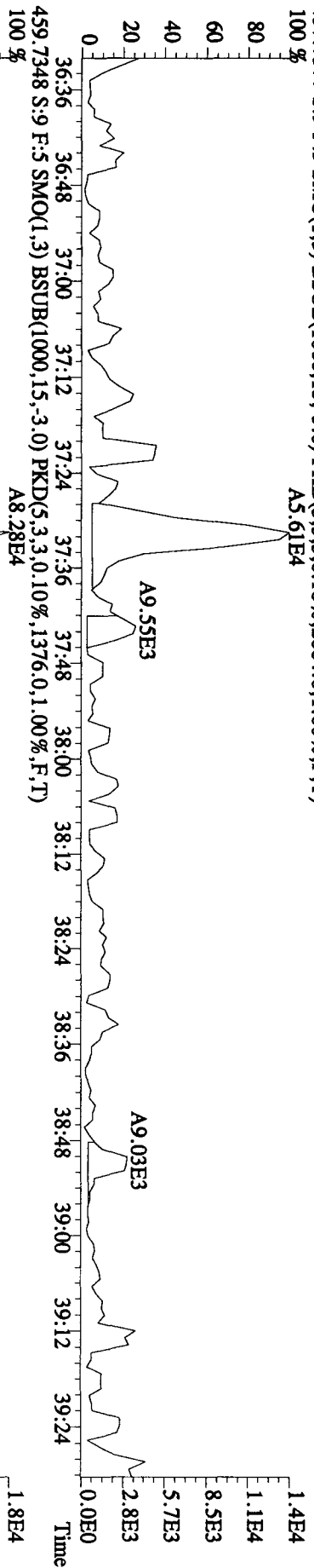
File:25AU10A1ID5 #1-196 Acq:26-AUG-2010 03:36:27 GC EI+ Voltage SIR 70SE  
 Sample#9 Text:L507G-1-AA :G0H210471-3 Exp:DIOXINRES  
 441.7428 S:9 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,1848,0,1,00%,F,T) A3.72E5

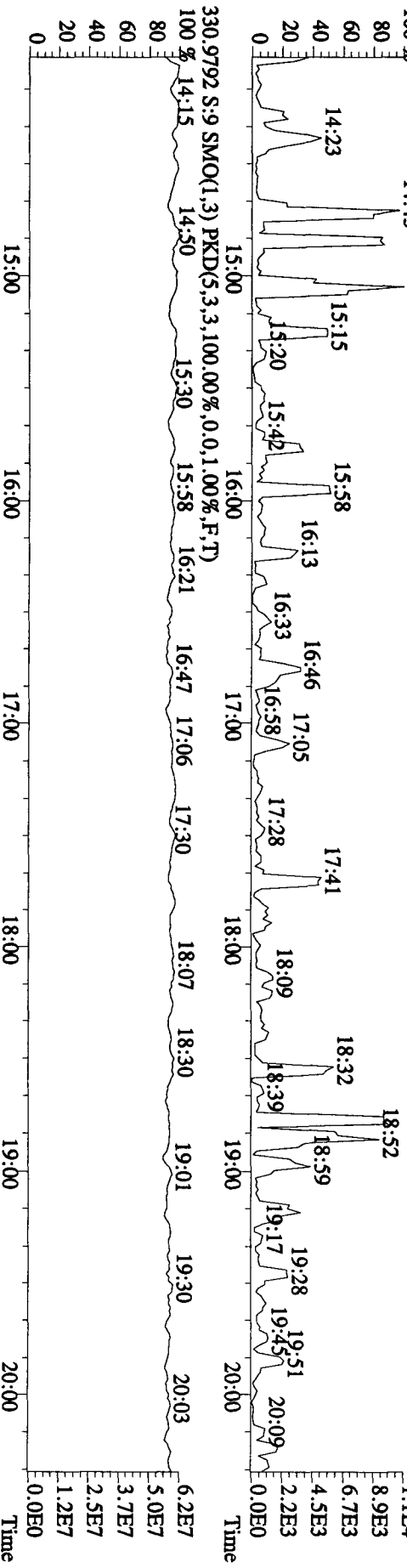
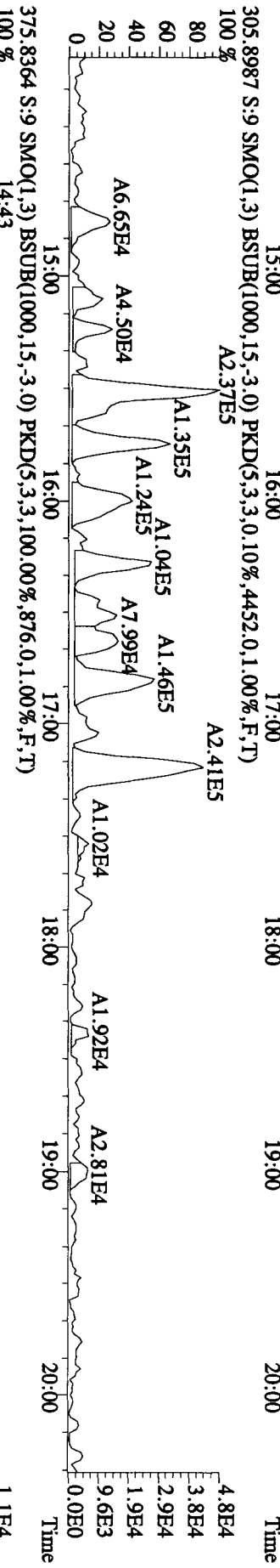
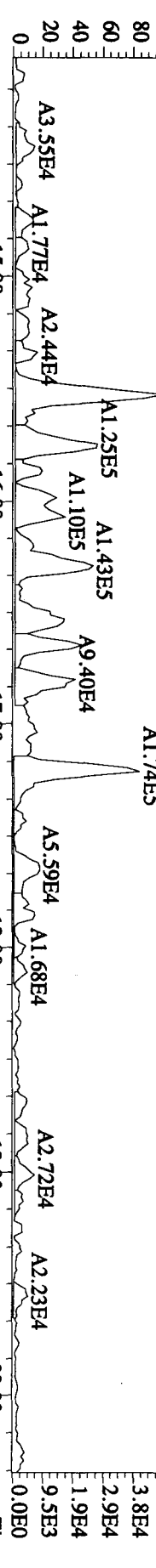
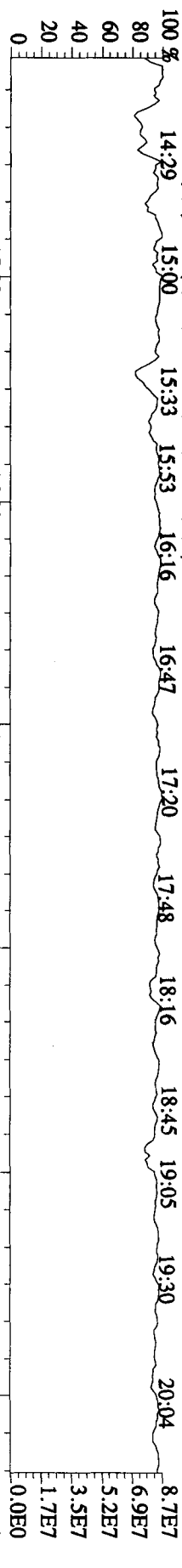


File:25AU10A1D5 #1-196 Acq:26-AUG-2010 03:36:27 GC EI+ Voltage SIR 70SE

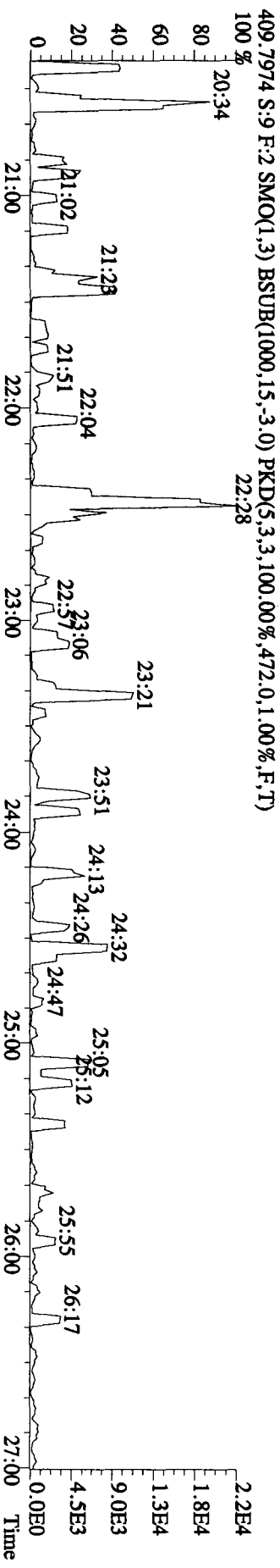
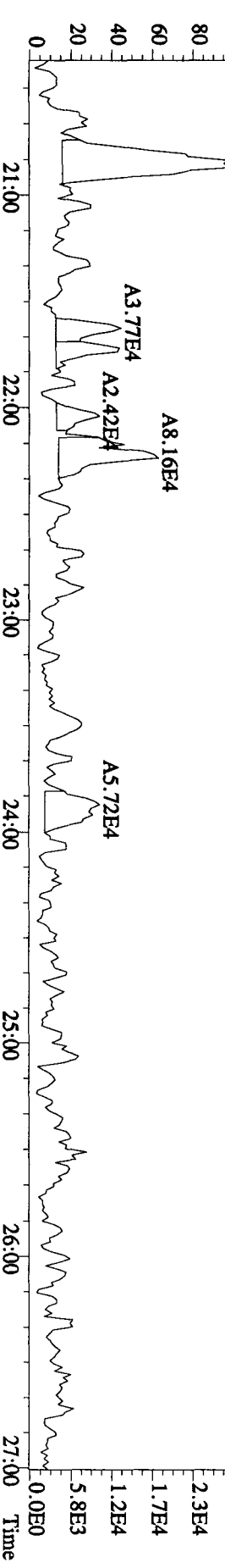
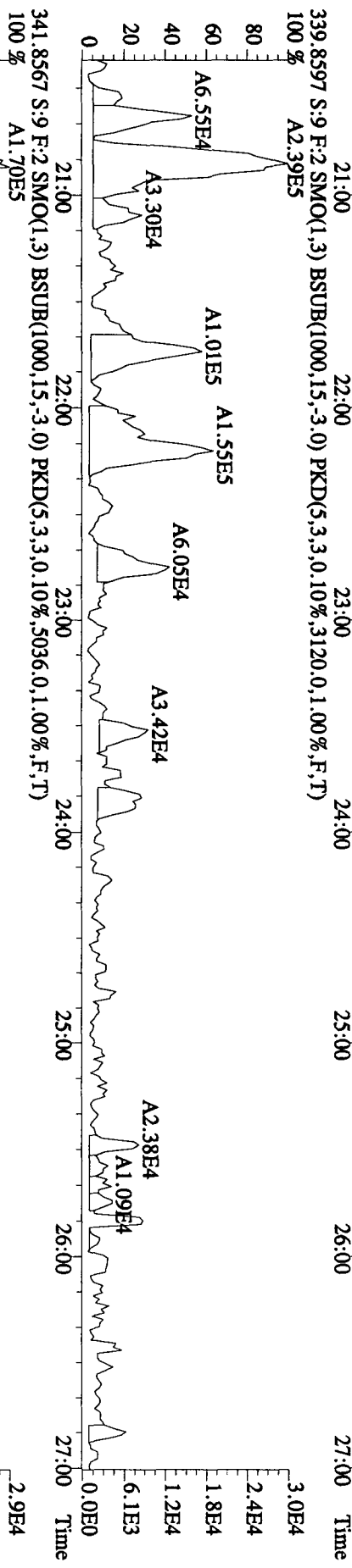
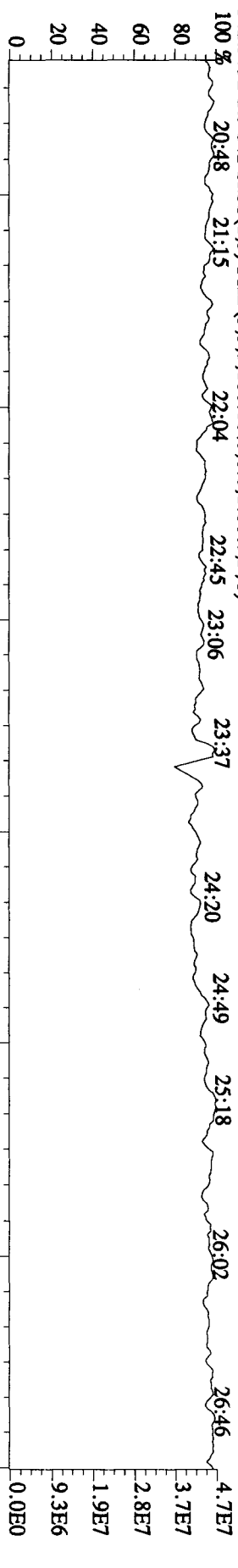
Exp:DIOXINES

Sample#9 Text:1507G-1-AA :G0H210471-3  
457.7377 S:9 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2084,0,1,00%,F,T)  
100 %





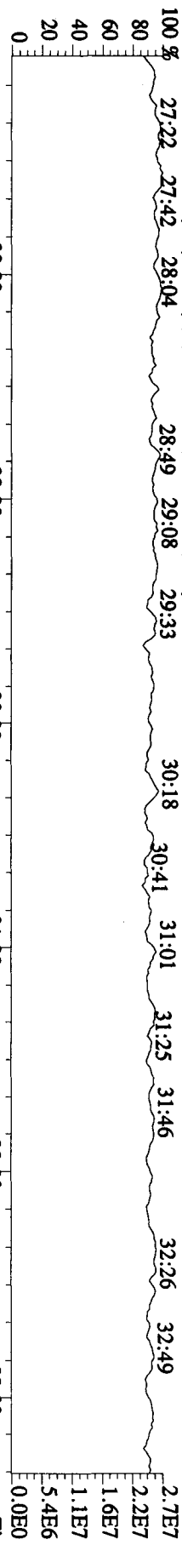
File:25AU10A1D5 #1-414 Acq:26-AUG-2010 03:36:27 GC EI+ Voltage SIR 70SE  
 Sample#9 Text:1507G-1-AA :G0H210471-3 Exp.:DIOXINRES  
 342.9792 S:9 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 100 % 20:48 21:15 22:04 22:45 23:06 23:37 24:20 24:49 25:18 26:02 26:46



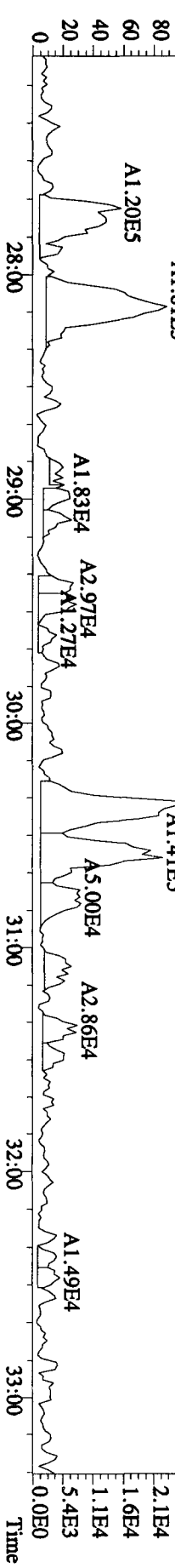


Sample#9 Text:1507G-1-AA :G0H210471-3 Exp:DIOXINRES

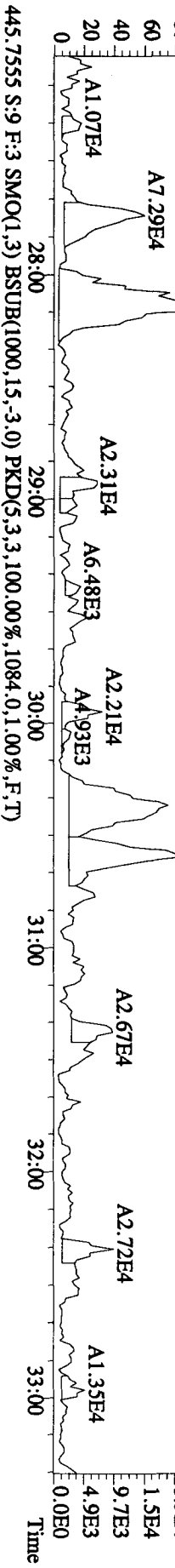
392.9760 S:9 F:3 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



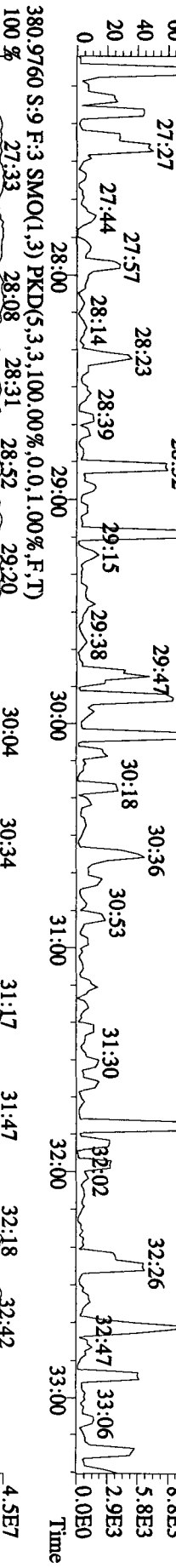
373.8208 S:9 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,2876.0,1.00%,F,T)



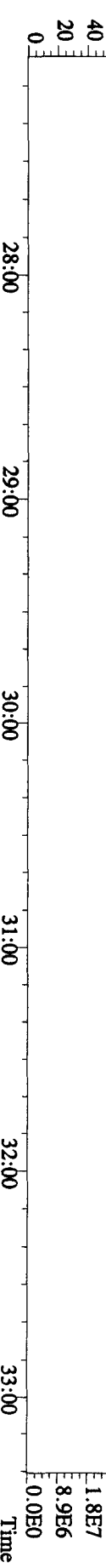
375.8178 S:9 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,2628.0,1.00%,F,T)



445.7555 S:9 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,1084.0,1.00%,F,T)

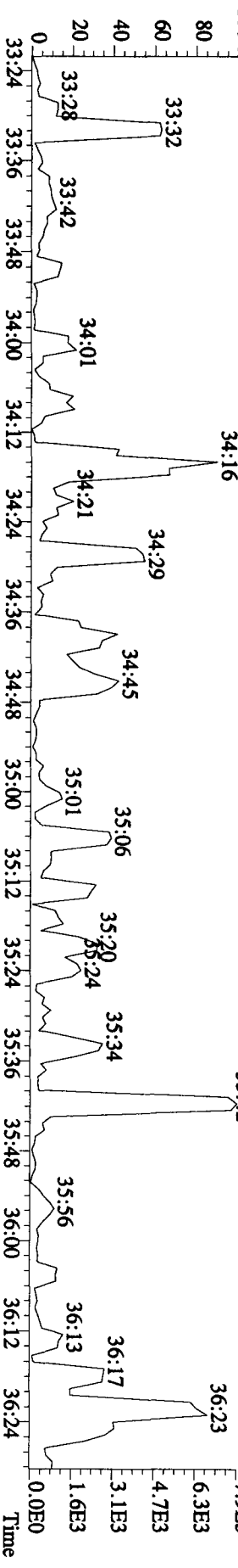
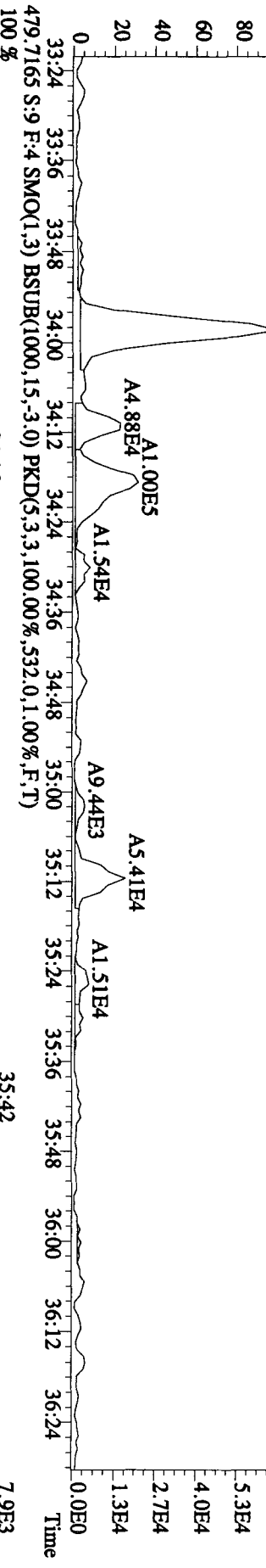
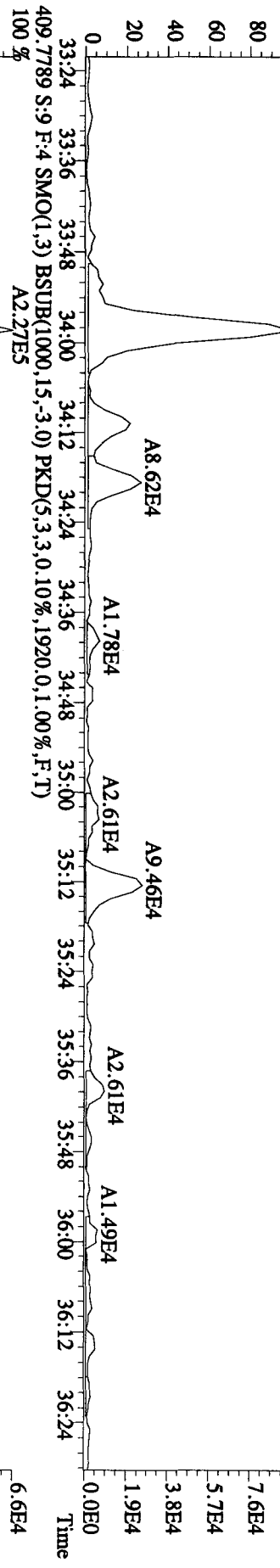
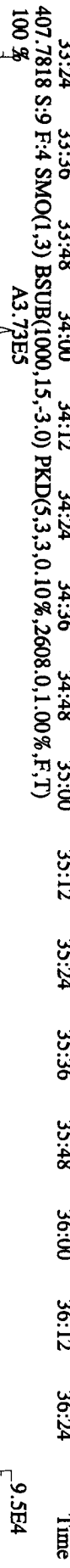


380.9760 S:9 F:3 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



Sample#9 Text:L507G-1-AA :G0H210471-3 Exp:DIOXINES

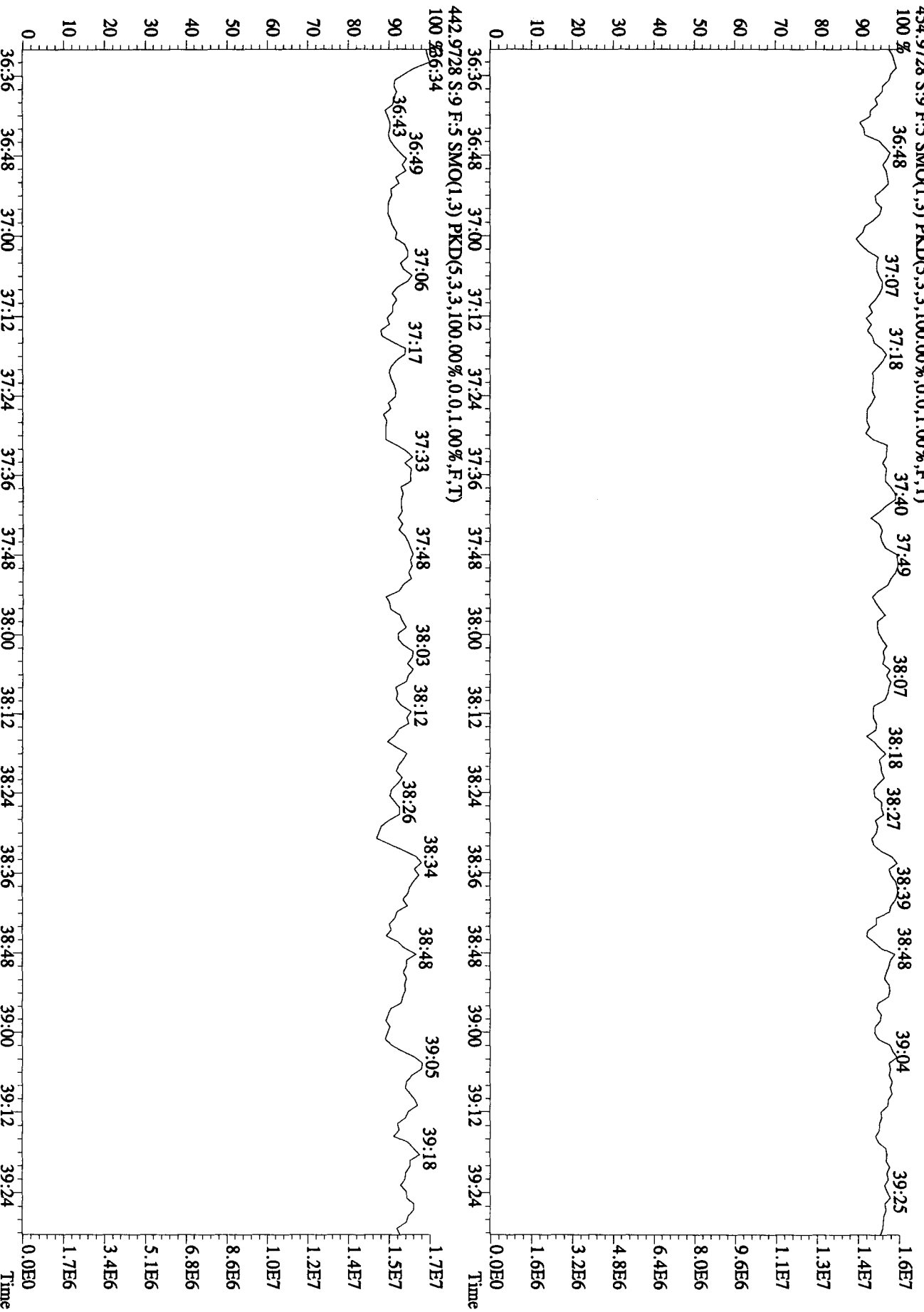
430.9728 S:9 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:25AUI0AIDS #1-196 Acq:26-AUG-2010 03:36:27 GC EI+ Voltage SIR 70SE

Sample#9 Text:L507G-1-AA :G0H210471-3 Exp:DIOXINRES

454.9728 S:9 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



Run text: L507H-1-AA      Sample text: L507H-1-AA :G0H210471-4  
 Run #14 Filename: 25AU10A1D5 S: 10 I: 1      Results: 25AU10A1D5TO9  
 Acquired: 26-AUG-10 04:20:24      Processed: 26-AUG-10 15:08:26  
 Run: 25AU10A1D5      Analyte: TO9      Cal: TO90727101D5  
 Factor 1: 1600.000      Factor 2: 20.000      Sample size: 0.500000Sample

AK 8/27/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	94765100	0.80 y	17:42	-	50.35	-	-	n
13C-2,3,7,8-TCDF	107991400	0.79 y	17:11	1.56	2918.81	1.84	73.0	n
2,3,7,8-TCDF	60424	0.35 n	17:12	0.87	<del>2.56</del>	4.86	-	n
Total TCDF	245375	0.65 n	14:46	0.87	<del>18.39</del>	4.86	-	n
13C-2,3,7,8-TCDD	68027700	0.80 y	17:53	0.94	3069.96	6.18	76.7	n
2,3,7,8-TCDD	39094	0.45 n	17:53	0.96	<del>2.40</del>	4.30	-	n
Total TCDD	68852	1.38 n	15:18	0.96	<del>4.23</del>	4.30	-	n
37Cl-2,3,7,8-TCDD	61803800	1.00 y	17:54	1.22	2987.98	3.39	186.7	n
13C-1,2,3,7,8-PeCDF	85762000	1.65 y	22:11	1.06	3408.82	3.16	85.2	n
1,2,3,7,8-PeCDF	85829	1.54 y	22:13	1.08	<del>3.71</del>	3.75	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.98	*	4.14	-	n
Total F2 PeCDF	514920	1.48 y	20:51	1.03	<del>23.14</del>	<del>3.94</del> 7.98	-	n
Total F1 PeCDF	177224	0.52 n	14:58	1.03	<del>8.02</del>	<del>3.04</del>	-	n
13C-1,2,3,7,8-PeCDD	47359700	1.67 y	24:12	0.65	3093.50	3.05	77.3	n
1,2,3,7,8-PeCDD	12633	0.59 n	24:17	0.92	<del>1.15</del>	7.08	-	n
Total PeCDD	103824	0.79 n	21:59	0.92	<del>9.48</del>	7.08	-	n
13C-1,2,3,7,8,9-HxCDD	57357600	1.25 y	32:09	-	40.35	-	-	n
13C-1,2,3,4,7,8-HxCDF	61208600	0.51 y	30:22	0.99	4328.88	6.96	108.2	n
1,2,3,4,7,8-HxCDF	97060	1.77 n	30:24	<del>1.15</del> 1.23	5.14 <del>5.50</del> LS/N	4.38	-	n
1,2,3,6,7,8-HxCDF	97350	1.52 n	30:34	1.24	5.12	4.06	-	n
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.22	*	4.15	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.19	*	4.26	-	n
Total HxCDF	450639	1.03 n	27:43	1.20	<del>24.57</del> 9.56	4.21	-	n
13C-1,2,3,6,7,8-HxCDD	43859300	1.38 y	31:47	0.77	3983.11	4.65	99.6	n
1,2,3,4,7,8-HxCDD	12054	0.38 n	31:41	1.03	<del>1.07</del>	4.91	-	n
1,2,3,6,7,8-HxCDD	23200	0.74 n	31:49	1.11	<del>1.91</del>	4.56	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.24	*	4.07	-	n
Total HxCDD	107874	1.06 y	30:27	1.13	<del>8.86</del>	<del>4.49</del> 4.91	-	n
13C-1,2,3,4,6,7,8-HpCDF	44666100	0.41 y	33:58	0.98	3175.51	11.90	79.4	n
1,2,3,4,6,7,8-HpCDF	284282	1.24 n	33:58	1.35	18.86	4.04	-	n
1,2,3,4,7,8,9-HpCDF	61501	1.70 n	35:13	1.19	4.64	4.59	-	n
Total HpCDF	429940	1.24 n	33:58	1.27	<del>29.45</del>	4.30	-	n
13C-1,2,3,4,6,7,8-HpCDD	34715100	1.05 y	34:52	0.81	3004.77	7.04	75.1	n
1,2,3,4,6,7,8-HpCDD	80646	1.11 y	34:53	1.03	9.05	4.63	-	n
Total HpCDD	189940	1.66 n	34:16	1.03	<del>21.32</del> 17.06	4.63	-	n
13C-OCDD	47581600	0.88 y	37:31	0.62	5394.36	6.01	67.4	n
OCDF	291122	0.74 n	37:38	1.44	33.87	9.47	-	n
OCDD	149103	1.03 n	37:33	1.09	22.99	6.02	-	n

Run Text: L507H-1-AA

Sample text: L507H-1-AA :G0H210471-4

Name: Total TCDF F:1 Mass: 303.902 305.899 Mod? no #Hom:4  
 Run: 14 File: 25AU10A1D5 S:10 Acq:26-AUG-10 04:20:24  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 5.19 of which 1.28 named and 3.91 unnamed  
 Conc: 10.39 of which 2.56 named and 7.83 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:46	0.65	n	3.06	31483	1.9	n n
						48516	2.5	n n
	2	15:34	2.05	n	3.06	83947	3.5	y n
						40870	2.6	n n
	3	16:48	0.93	n	1.70	21159	1.2	n n
						22736	1.5	n n
2,3,7,8-TCDF	4	17:12	0.35	n	2.56	26286	1.6	n n
						74773	3.8	y n

Run Text: L507H-1-AA

Sample text: L507H-1-AA :G0H210471-4

Name: Total TCDD F:1 Mass: 319.897 321.894 Mod? no #Hom:2  
 Run: 14 File: 25AU10A1D5 S:10 Acq:26-AUG-10 04:20:24  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 2.11 of which 1.20 named and 0.91 unnamed  
 Conc: 4.23 of which 2.40 named and 1.83 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	15:18	1.38	n	1.83	23249	2.2	n n
						16813	2.1	n n
2,3,7,8-TCDD	2	17:53	0.45	n	2.40	17007	1.8	n n
						38173	3.5	y n

Run Text: L507H-1-AA

Sample text: L507H-1-AA :G0H210471-4

Name: Total F2 PeCDF F:2 Mass: 339.860 341.857 Mod? no #Hom:8  
 Run: 14 File: 25AU10A1D5 S:10 Acq:26-AUG-10 04:20:24  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 11.57 of which 1.85 named and 9.71 unnamed  
 Conc: 23.14 of which 3.71 named and 19.43 unnamed

Name	#	R.T.	Ratio		Conc.	Area	S/N	>?	Mod?
	1	20:51	1.48	y	7.98	105219 71048	6.8 2.5	y n	n n
	2	21:25	1.42	y	1.11	14371 10143	2.3 0.9	n n	n n
	3	21:30	1.82	n	1.17	18427 10143	1.8 0.9	n n	n n
	4	21:39	1.56	y	2.88	38756 24860	3.4 1.6	y n	n n
	5	21:45	1.21	n	2.56	34394 28399	3.0 1.7	n n	n n
	6	22:03	0.75	n	1.04	13964 18578	2.3 1.9	n n	n n
1,2,3,7,8-PeCDF	7	22:13	1.54	y	3.71	52016 33814	4.5 1.6	y n	n n
	8	23:53	0.65	n	2.68	36028 55658	5.4 2.8	y n	n n

S/N

Run Text: L507H-1-AA

Sample text: L507H-1-AA :G0H210471-4

Name: Total F1 PeCDF F:1 Mass: 339.860 341.857 Mod? no #Hom:7  
 Run: 14 File: 25AU10A1D5 S:10 Acq:26-AUG-10 04:20:24  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 4.01 of which \* named and 4.01 unnamed  
 Conc: 8.02 of which \* named and 8.02 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	14:58	0.52	n 0.67	8930 17267	1.8 1.4	n	n
	2	16:12	0.93	n 1.29	17342 18581	4.2 1.6	y	n
	3	16:17	0.27	n 0.38	5052 18581	1.6 1.6	n	n
	4	17:14	0.68	n 1.26	16884 24954	3.6 2.0	y	n
	5	17:53	0.67	n 1.11	14946 22452	3.7 1.6	y	n
	6	18:52	2.10	n 1.58	28812 13689	4.6 1.4	y	n
	7	19:21	3.11	n 1.74	46784 15067	5.9 1.5	y	n

Run Text: L507H-1-AA

Sample text: L507H-1-AA :G0H210471-4

Name: Total PeCDD F:2 Mass: 355.855 357.852 Mod? no #Hom:4  
 Run: 14 File: 25AU10A1D5 S:10 Acq:26-AUG-10 04:20:24  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 4.74 of which 0.58 named and 4.16 unnamed  
 Conc: 9.48 of which 1.15 named and 8.33 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	21:59	0.79	n 1.20	8004 10127	1.0 2.0	n	n
	2	23:34	1.11	n 3.94	26225 23653	1.3 2.8	n	n
	3	23:53	5.91	n 3.19	80825 13679	3.5 1.6	y	n
1,2,3,7,8-PeCDD	4	24:17	0.59	n 1.15	7679	1.1	n	n

Run Text: L507H-1-AA Sample text: L507H-1-AA :G0H210471-4

Name: Total HxCDF F:3 Mass: 373.821 375.818 Mod? no #Hom:5  
 Run: 14 File: 25AU10A1D5 S:10 Acq:26-AUG-10 04:20:24  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

Amount: 12.29 of which 5.31 named and 6.98 unnamed  
 Conc: 24.57 of which 10.62 named and 13.96 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	27:43	1.03	n 3.17	32187 31274	2.1 3.0	n n	n n
	2	28:08	1.45	n 9.56	113958 78368	6.7 6.2	y y	n n
1,2,3,4,7,8-HxCDF	3	30:24	1.77	n 5.50	76554 43330	4.0 4.9	y y	n n
1,2,3,6,7,8-HxCDF	4	30:34	1.52	n 5.12	66089 43460	3.5 3.2	y y	n n
	5	30:48	2.76	n 1.23	27745 10063	2.2 1.1	n n	n n



Run Text: L507H-1-AA

Sample text: L507H-1-AA :G0H210471-4

Name: Total HxCDD F:3 Mass: 389.816 391.813 Mod? no #Hom:5  
 Run: 14 File: 25AU10A1D5 S:10 Acq:26-AUG-10 04:20:24  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 4.43 of which 1.49 named and 2.94 unnamed  
 Conc: 8.86 of which 2.98 named and 5.88 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	30:27	1.06 y	2.44	15522 14632	1.6 1.8	n	n
	2	30:34	1.53 n	2.65	22439 14632	2.4 1.8	n	n
	3	30:42	0.33 n	0.79	5365 16336	0.8 1.7	n	n
1,2,3,4,7,8-HxCDD	4	31:41	0.38 n	1.07	6673 17387	0.9 1.5	n	n
1,2,3,6,7,8-HxCDD	5	31:49	0.74 n	1.91	12843 17387	1.7 1.5	n	n

Run Text: L507H-1-AA

Sample text: L507H-1-AA :G0H210471-4

Name: Total HpCDF F:4 Mass: 407.782 409.779 Mod? no #Hom:3  
 Run: 14 File: 25AU10A1D5 S:10 Acq:26-AUG-10 04:20:24  
 Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1

Amount: 14.72 of which 11.75 named and 2.97 unnamed  
 Conc: 29.45 of which 23.51 named and 5.94 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
1,2,3,4,6,7,8-HpCDF	1	33:58	1.24 n	18.86	172317 139354	11.8 16.7	y	n
	2	34:18	0.73 n	5.94	42903 58815	3.7 5.9	y	n
1,2,3,4,7,8,9-HpCDF	3	35:13	1.70 n	4.64	51340 30148	3.1 4.5	y	n

Run Text: L507H-1-AA

Sample text: L507H-1-AA :G0H210471-4

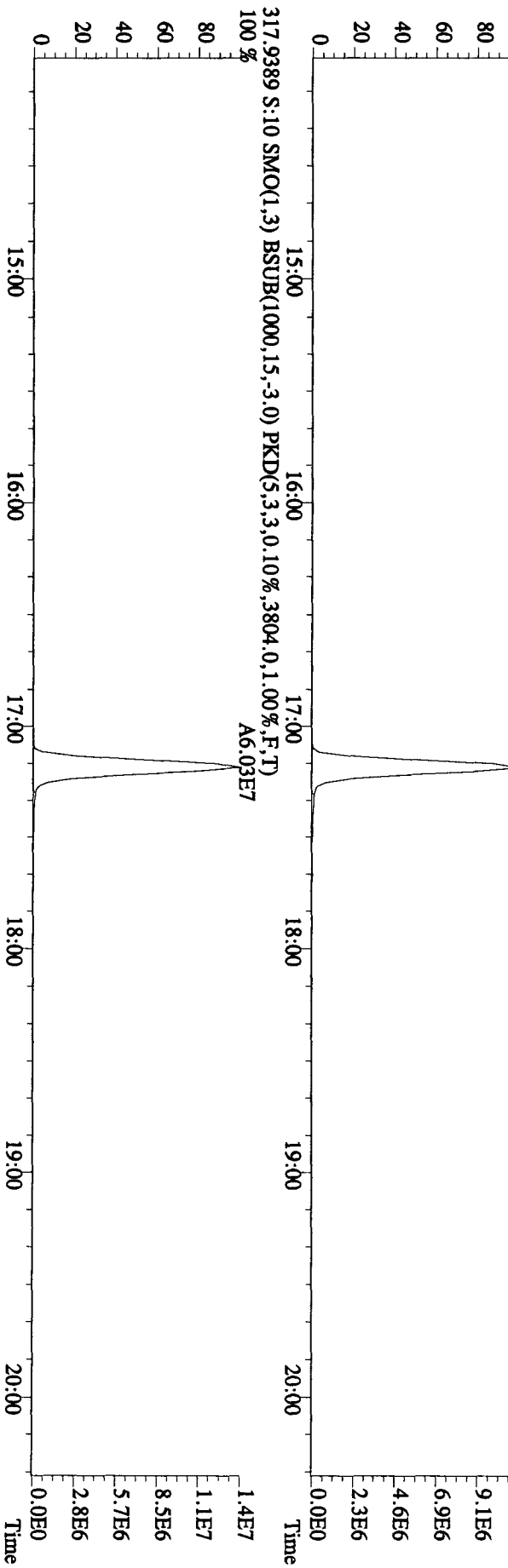
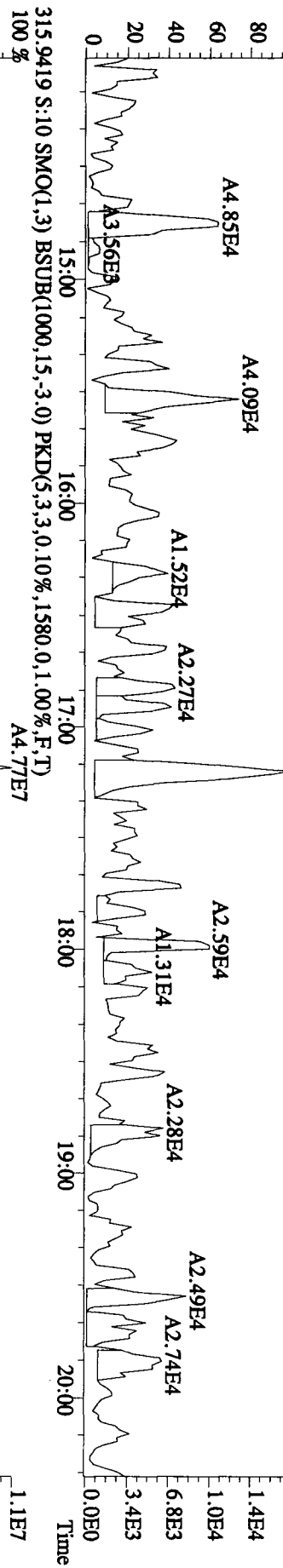
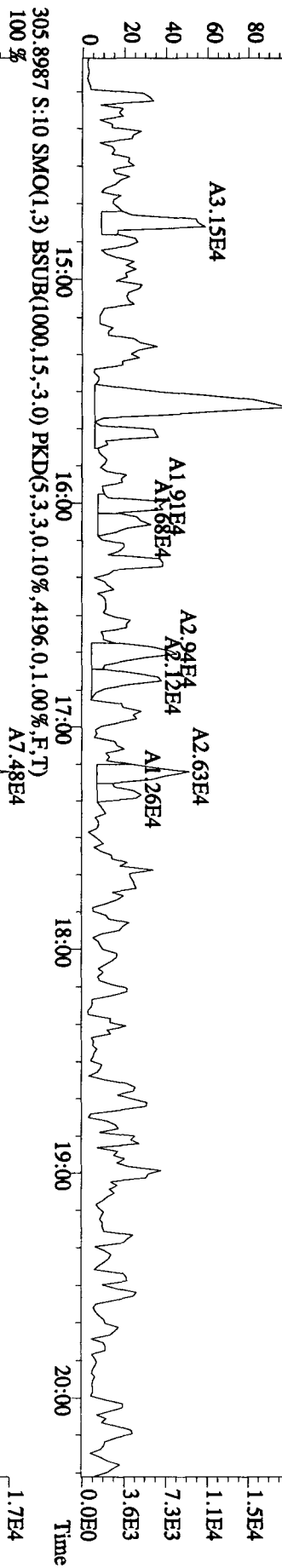
Name: Total HpCDD F:4 Mass: 423.777 425.774 Mod? no #Hom:4  
 Run: 14 File: 25AU10A1D5 S:10 Acq:26-AUG-10 04:20:24

Tables: Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1η

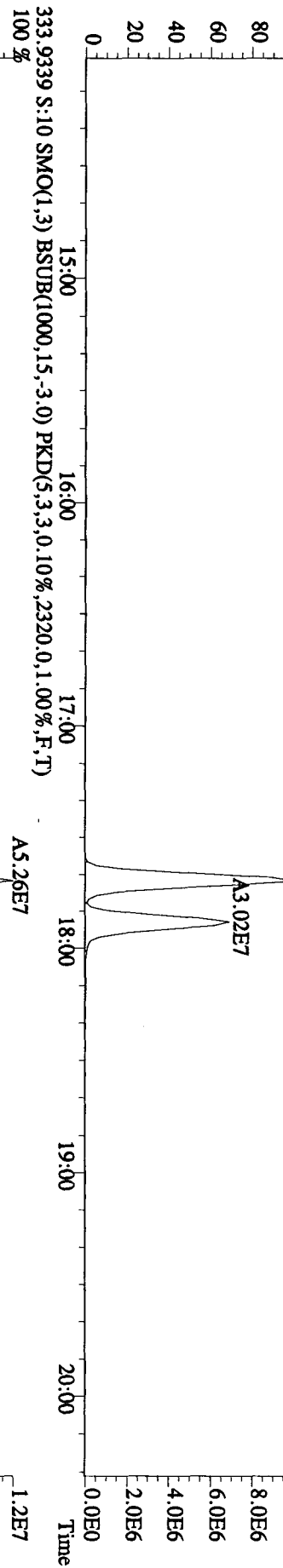
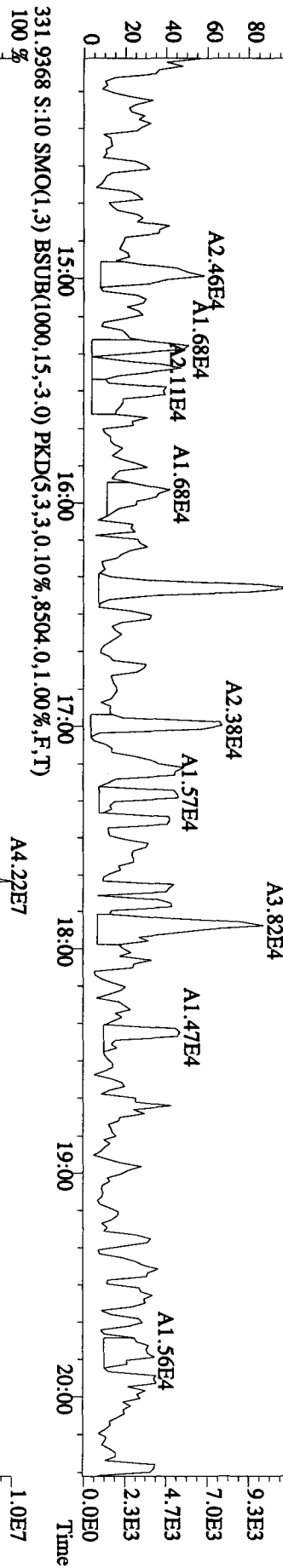
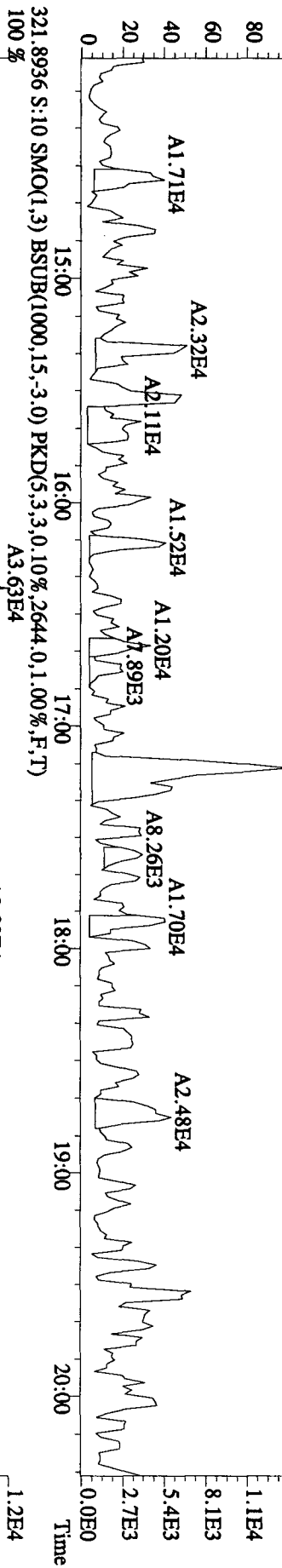
Amount: 10.66 of which 4.53 named and 6.14 unnamed  
Conc: 21.32 of which 9.05 named and 12.27 unnamed

Name	#	R.T.	Ratio	Conc.	Area	S/N	>?	Mod?
	1	34:16	1.66	n 8.01	58134 34974	7.5 5.3	y y	n n
1,2,3,4,6,7,8-HpCDD	2	34:53	1.11	y 9.05	42396 38251	6.9 6.0	y y	n n
	3	35:03	2.73	n 3.12	37135 13611	4.2 1.5	y n	n n
	4	35:48	0.20	n 1.14	5190 25417	0.9 2.4	n n	n n

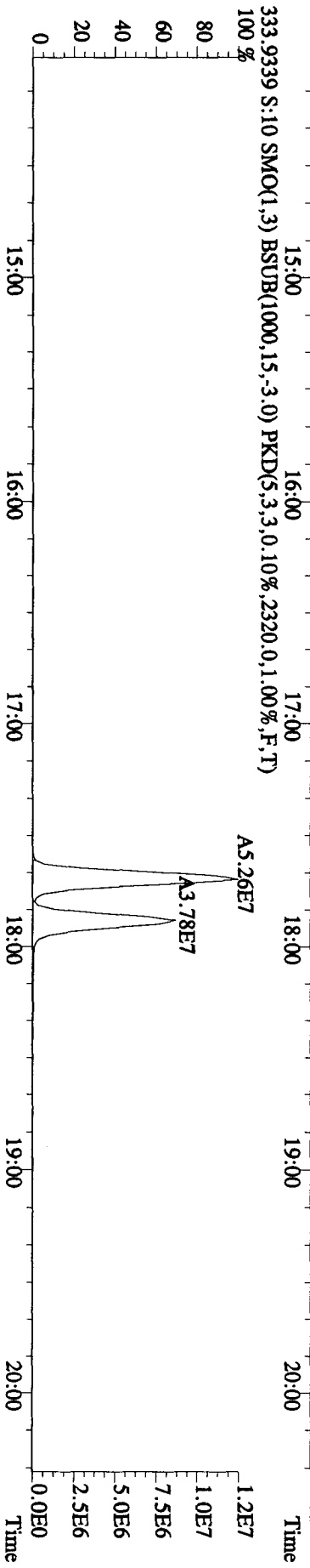
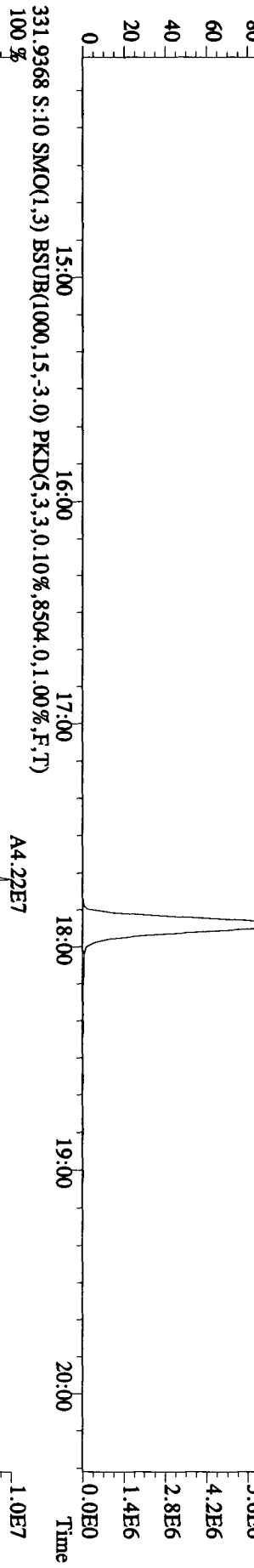
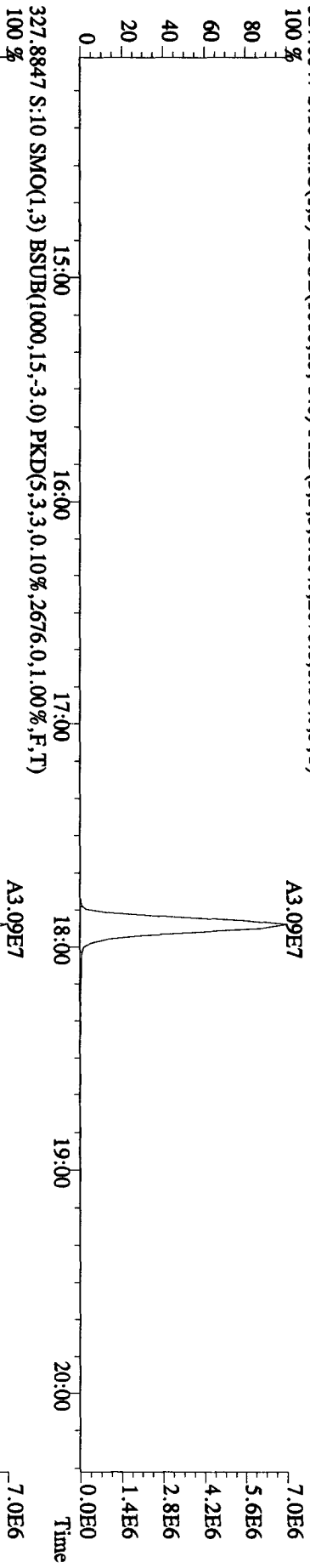
File: 25AU10A1D5 #1-373 Acq: 26-AUG-2010 04:20:24 GC EI+ Voltage SIR 70SE  
 Sample#10 Text: L507H-1-AA : G0H210471-4 Exp: DIOXINRES  
 303.9016 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4896,0,1,00%,F,T)  
 100%



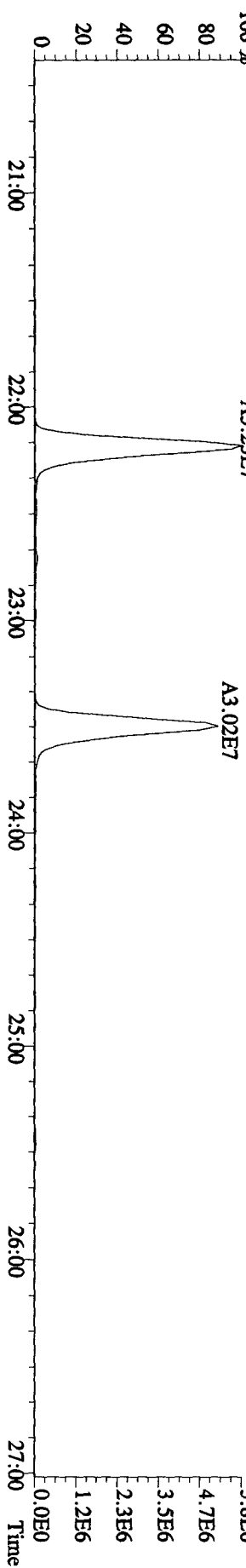
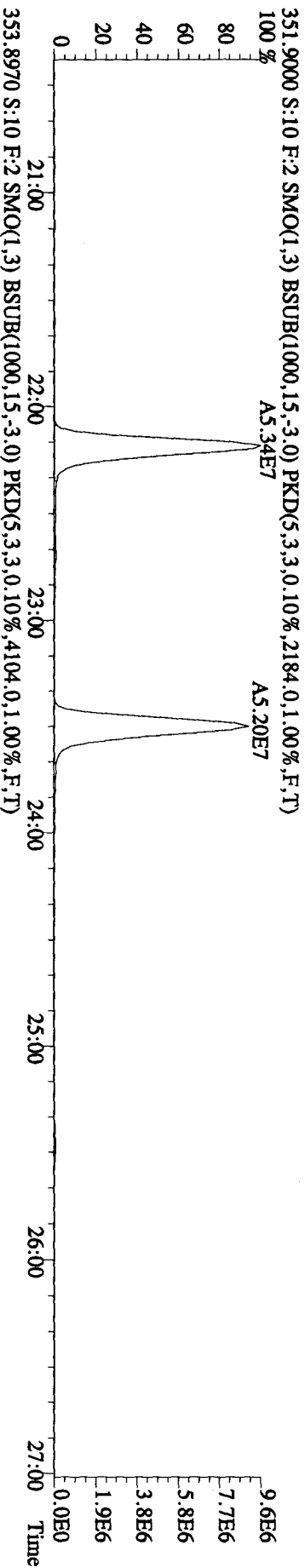
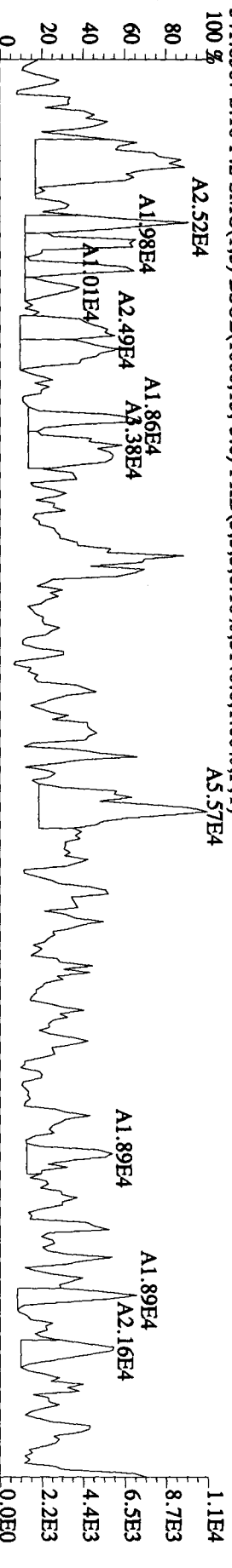
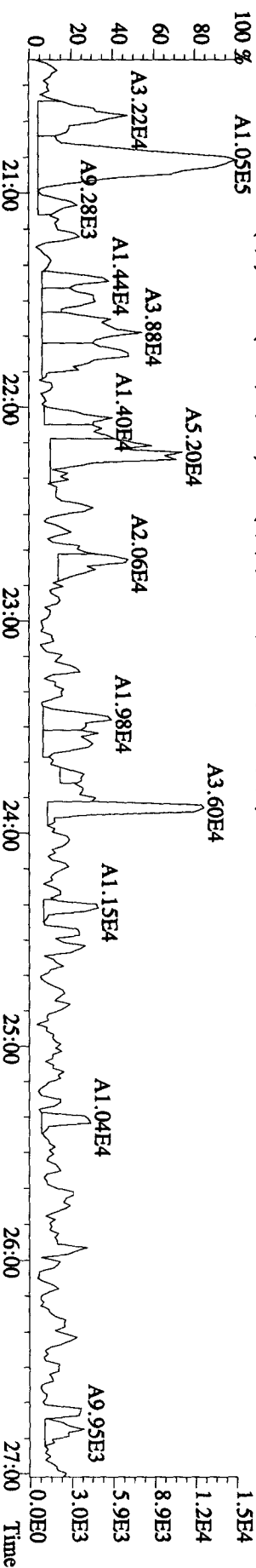
File:25AU10A1D5 #1-373 Acq:26-AUG-2010 04:20:24 GC EI+ Voltage SIR 70SE  
 Sample#10 Text:L507H-1-AA :G0H210471-4 Exp:DIOXINRES  
 319.8965 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2712.0,1.00%,F,T)  
 100%



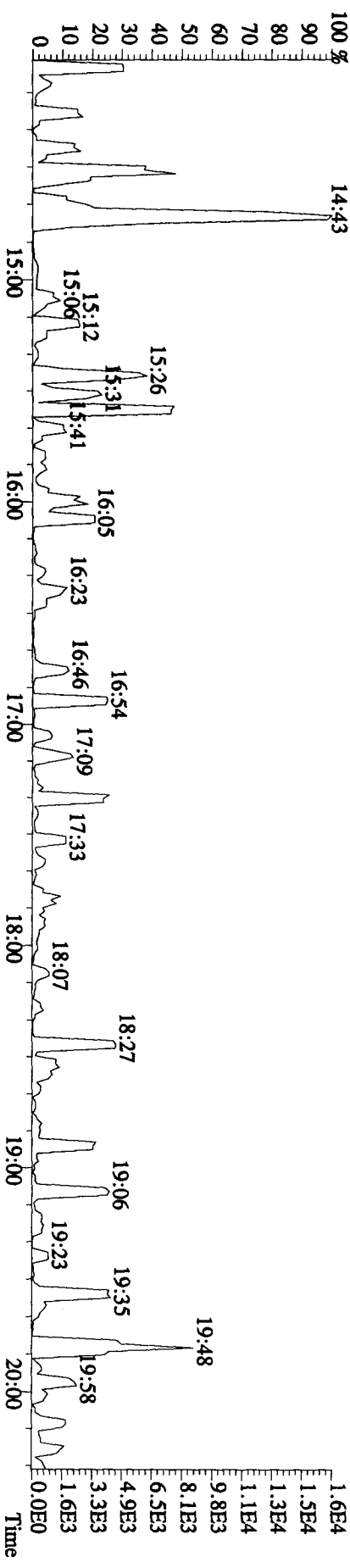
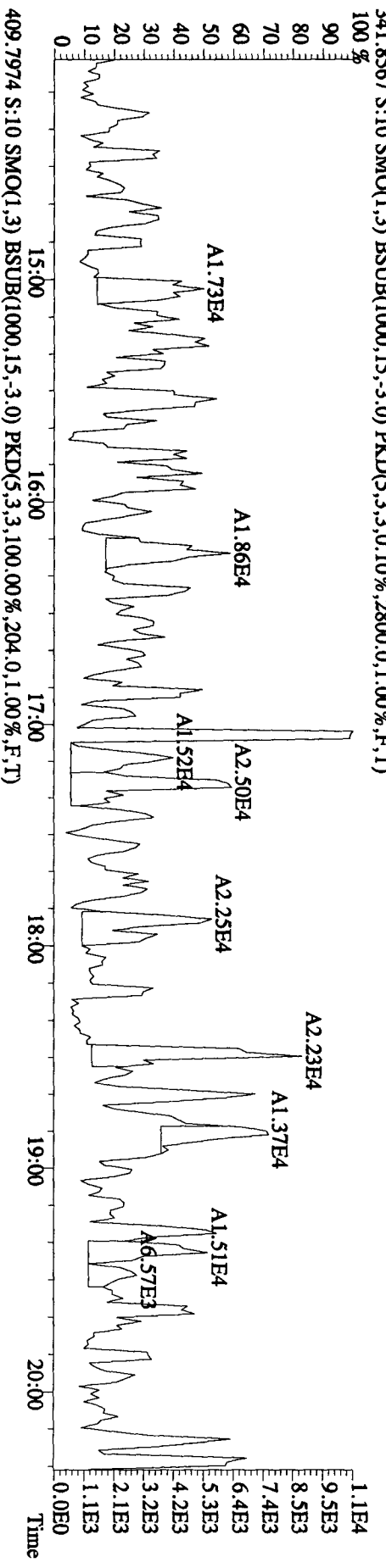
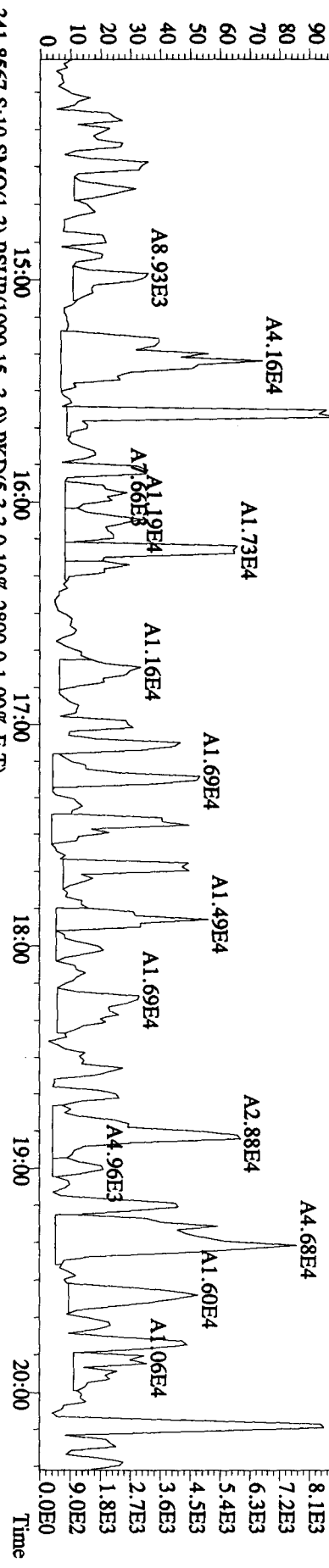
File:25AU10A1D5 #1-373 Acq:26-AUG-2010 04:20:24 GC EI+ Voltage SIR 70SE  
 Sample#10 Text:L507H-1-AA :G0H210471-4 Exp:DIOXINES  
 327.8847 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2676,0,1,00%,F,T)  
 100%



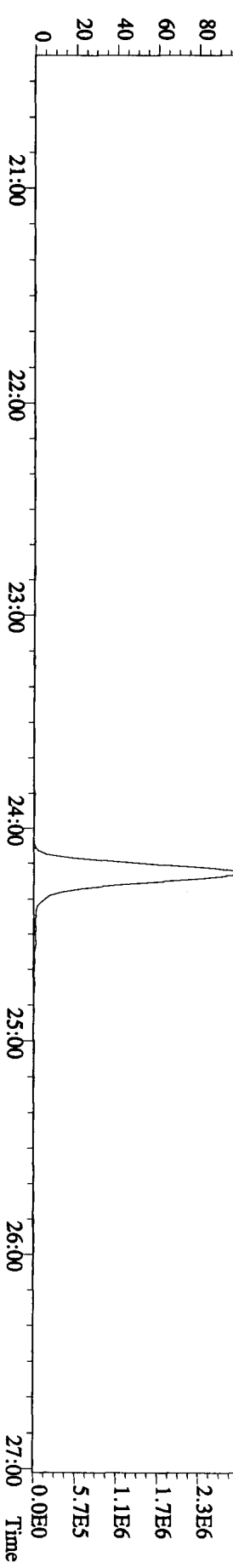
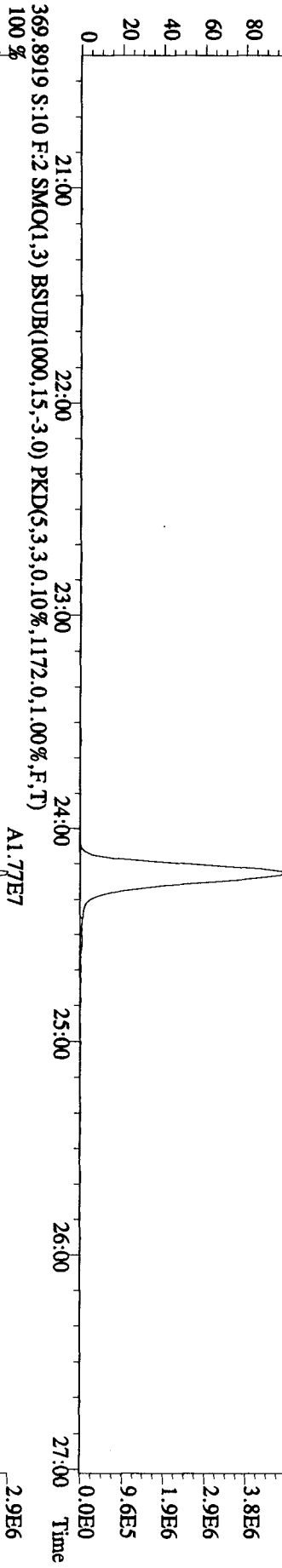
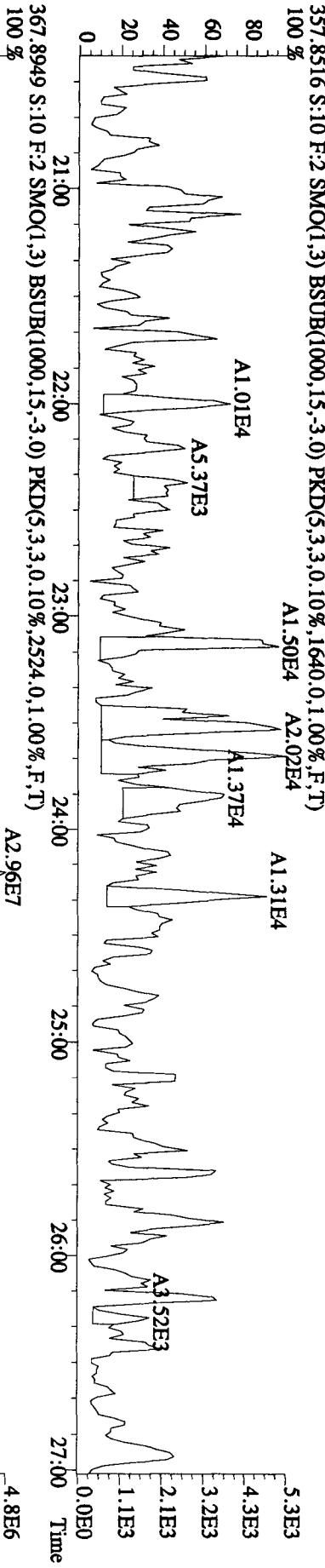
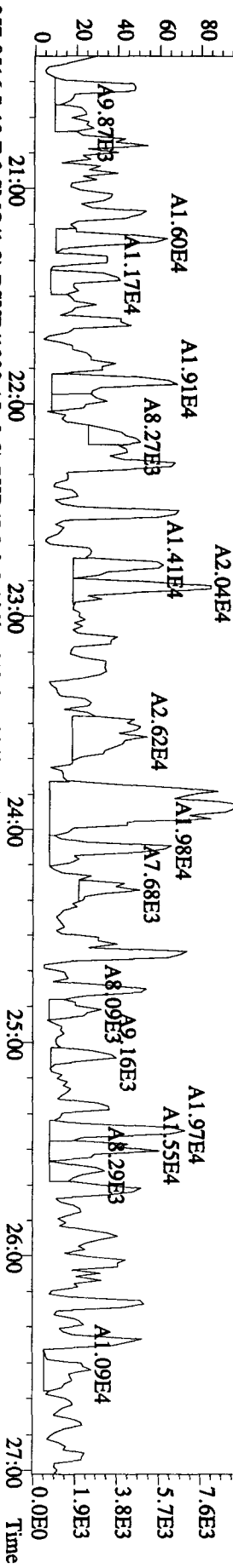
File:25AU10AID5 #1-414 Acq:26-AUG-2010 04:20:24 GC:EI + Voltage SIR 70SE  
 Sample#10 Text:L507H-1-AA :G0H210471-4 Exp:DIOXINRES  
 339.8597 S:10 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2084,0,1,00%,F,T)  
 100% A1:05E5



File:25AU10A1D5 #1-373 Acq:26-AUG-2010 04:20:24 GC EI+ Voltage SIR 70SE  
Sample#10 Text:1-507H-1-AA :G0H210471-4 Exp:DIOXINRES  
339.8597 S:10 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,1228.0,1.00%,F,T)  
A2.56E4

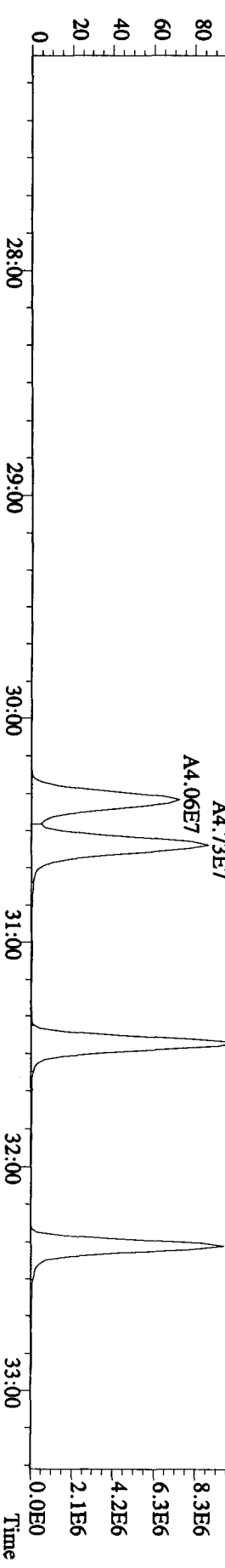
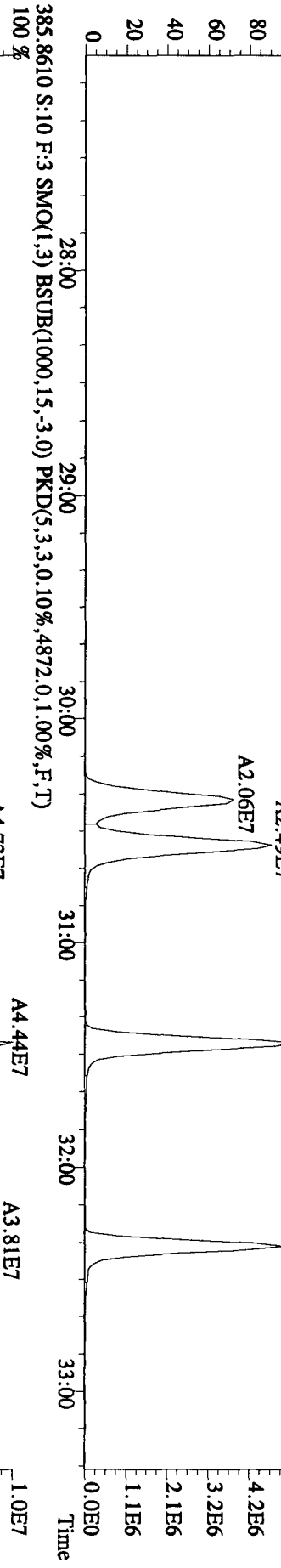
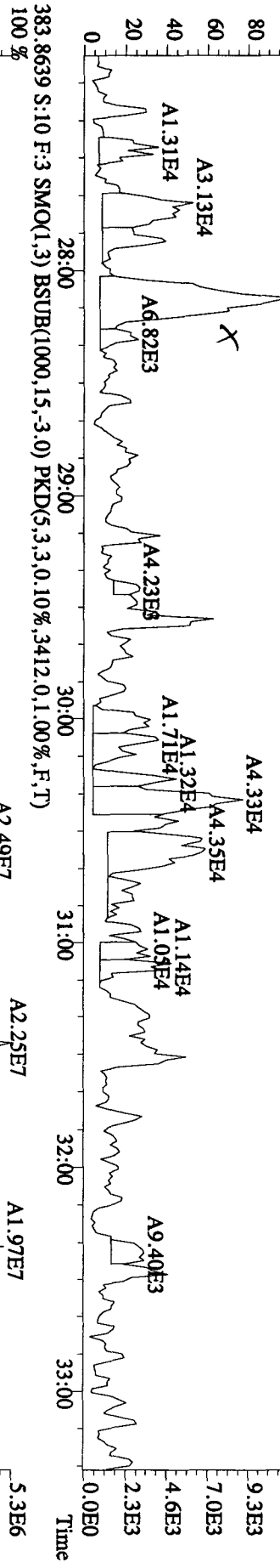
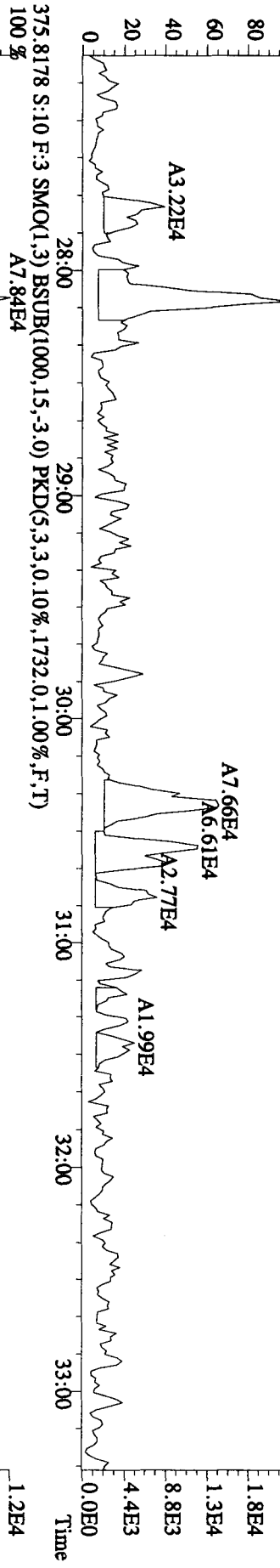


Sample#10 Text:L507H-1-AA :G0H210471-4  
 355.8546 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2540,0.1,00%,F,T)

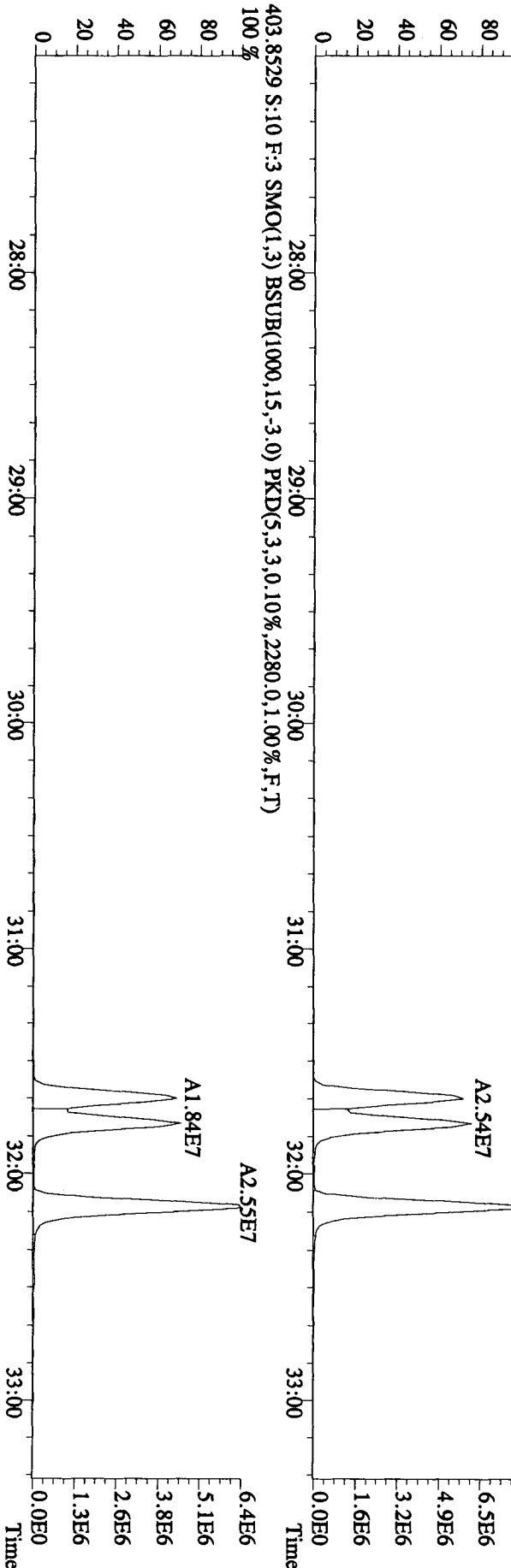
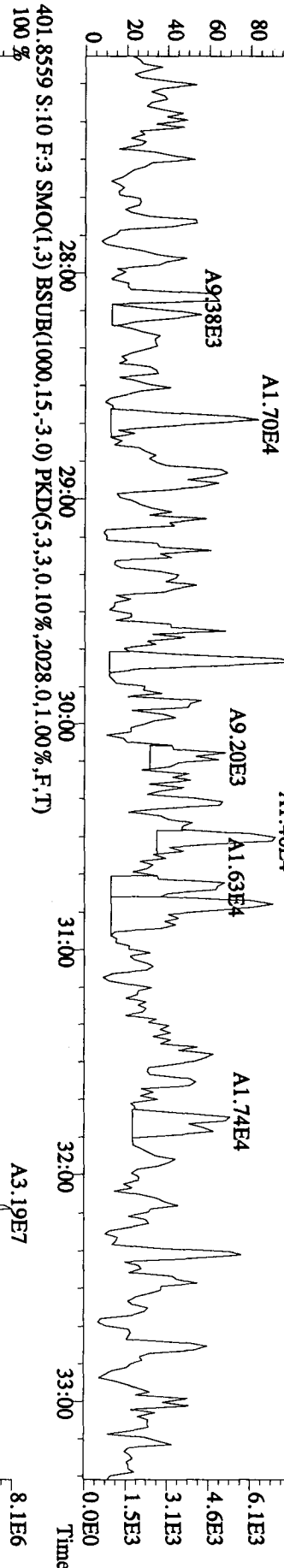
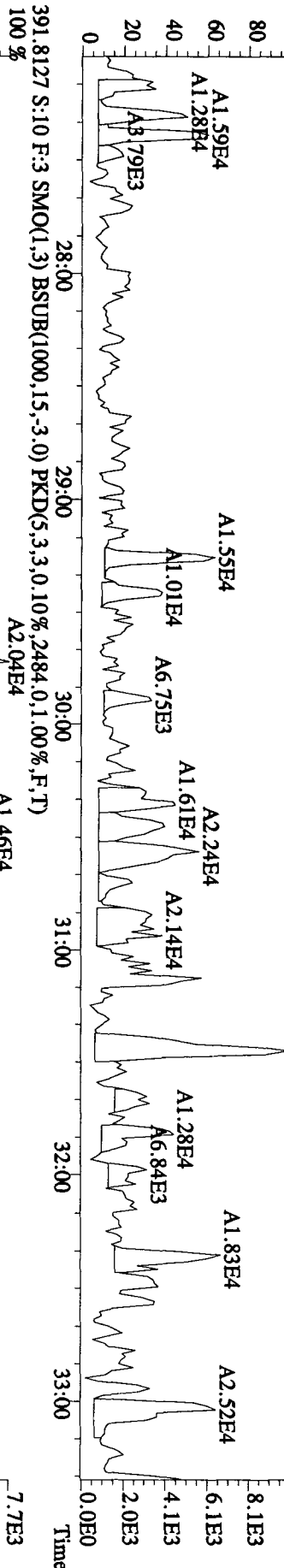


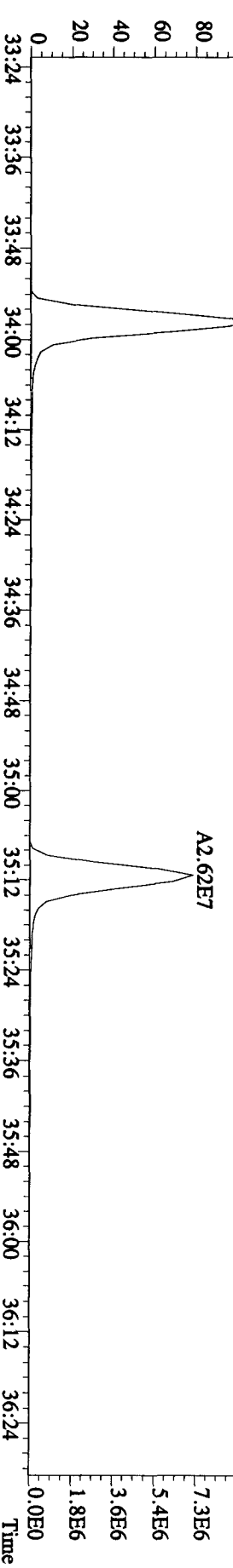
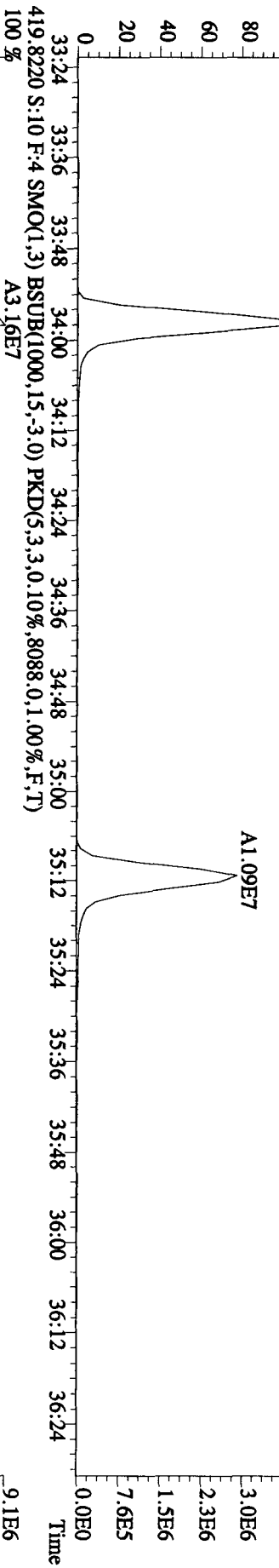
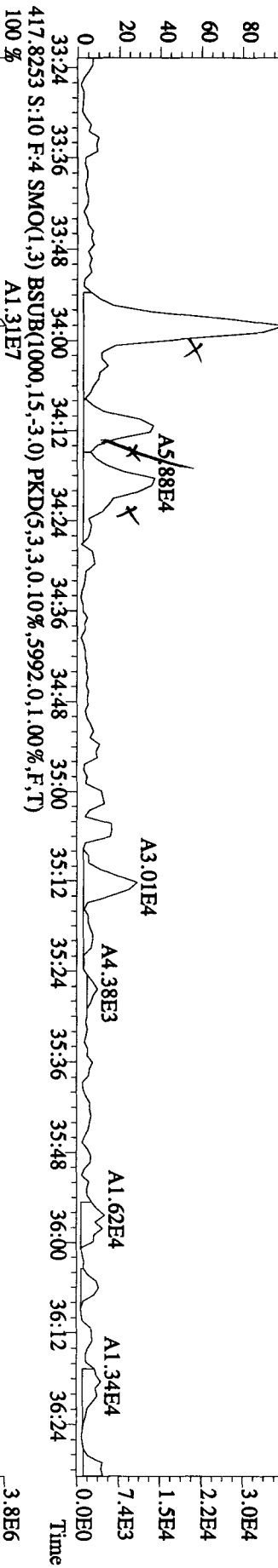
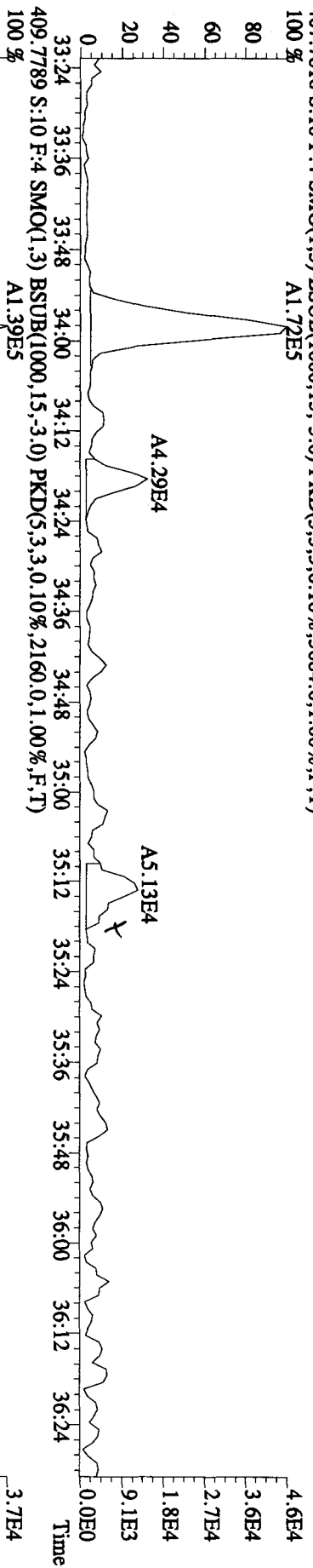


373.8208 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3048,0.1,00%,F,T)

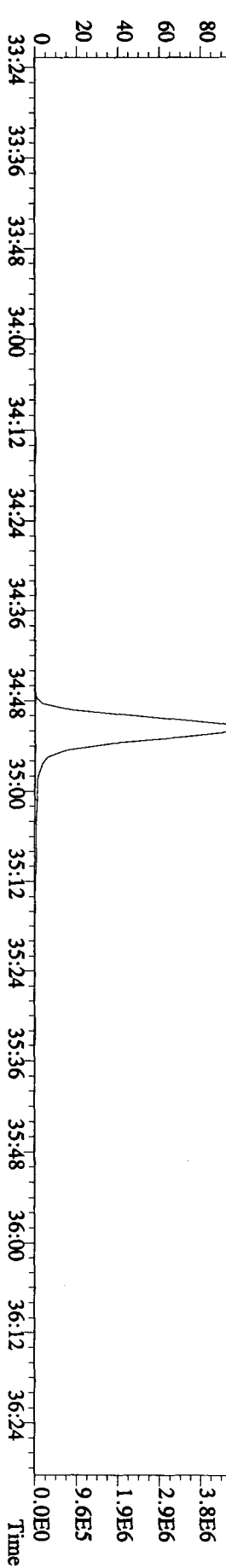
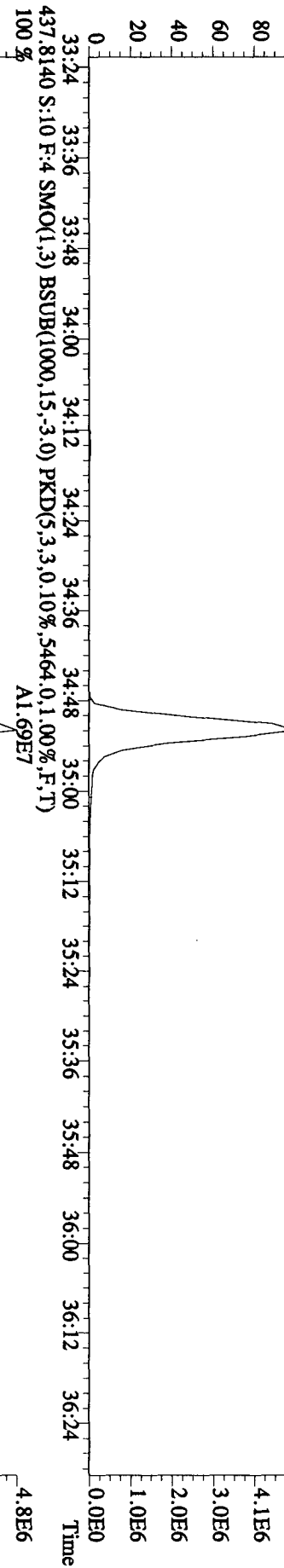
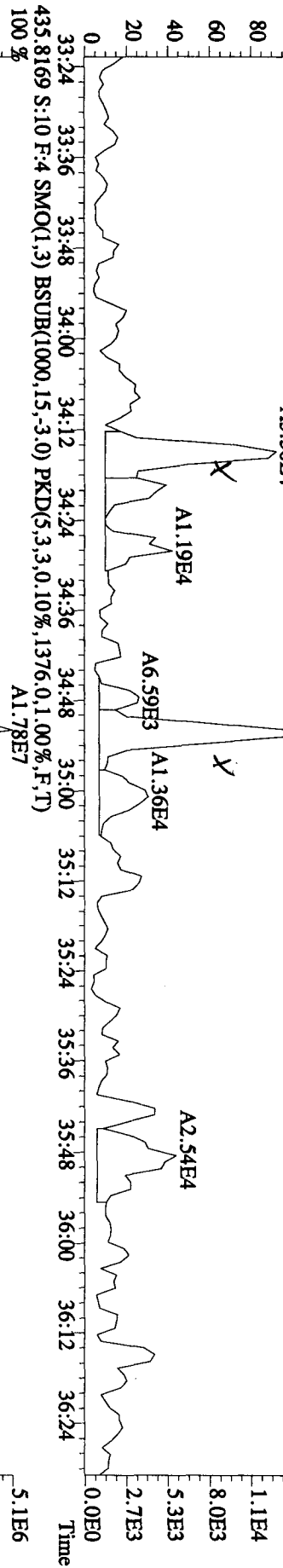
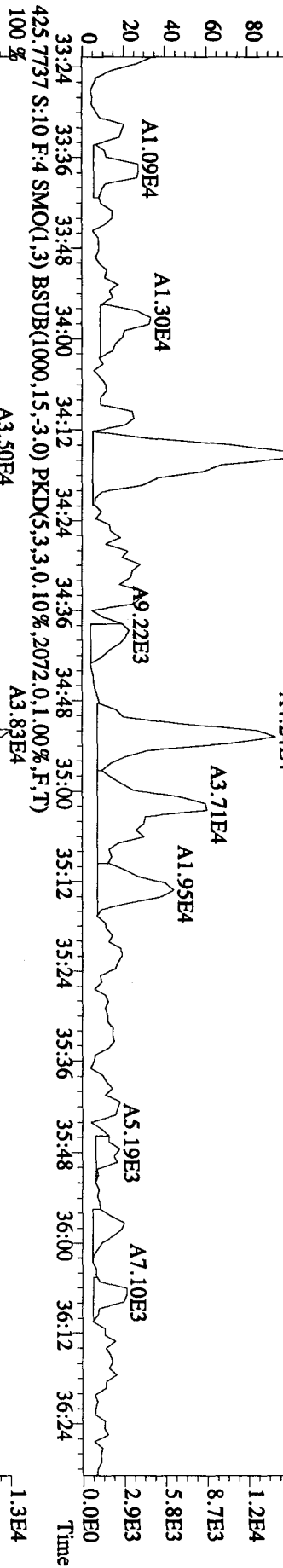


File:25A1U10A1D5 #1-406 Acq:26-AUG-2010 04:20:24 GC EI+ Voltage SIR 70SE  
 Sample#10 Text:L507H-1-AA :G0H210471-4 Exp:DIOXINRES  
 389.8157 S:10 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2016,0,1,00%,F,T)

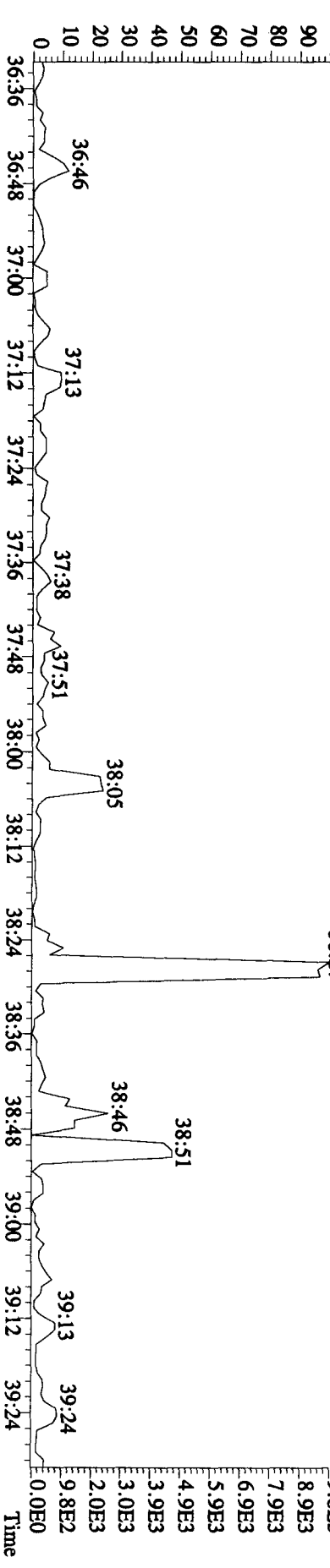
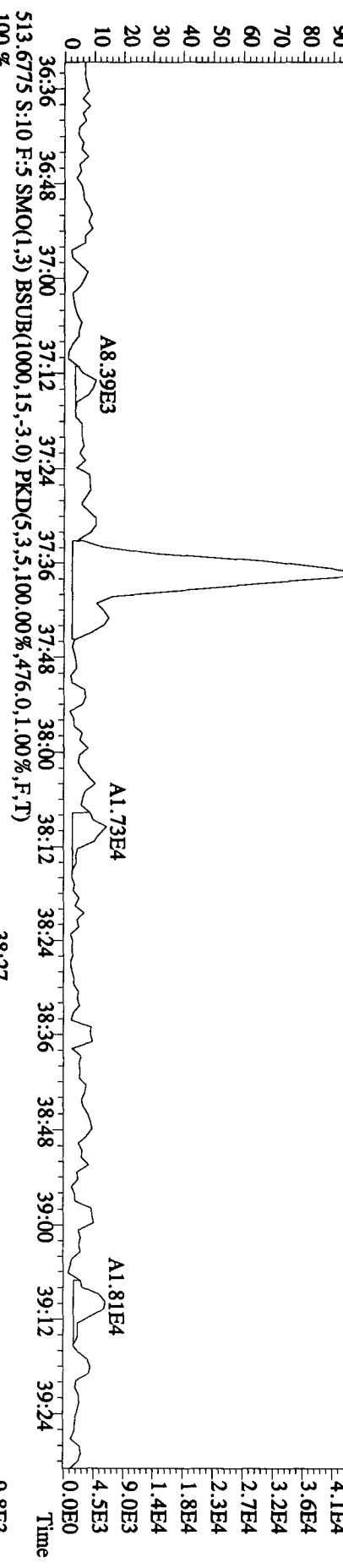
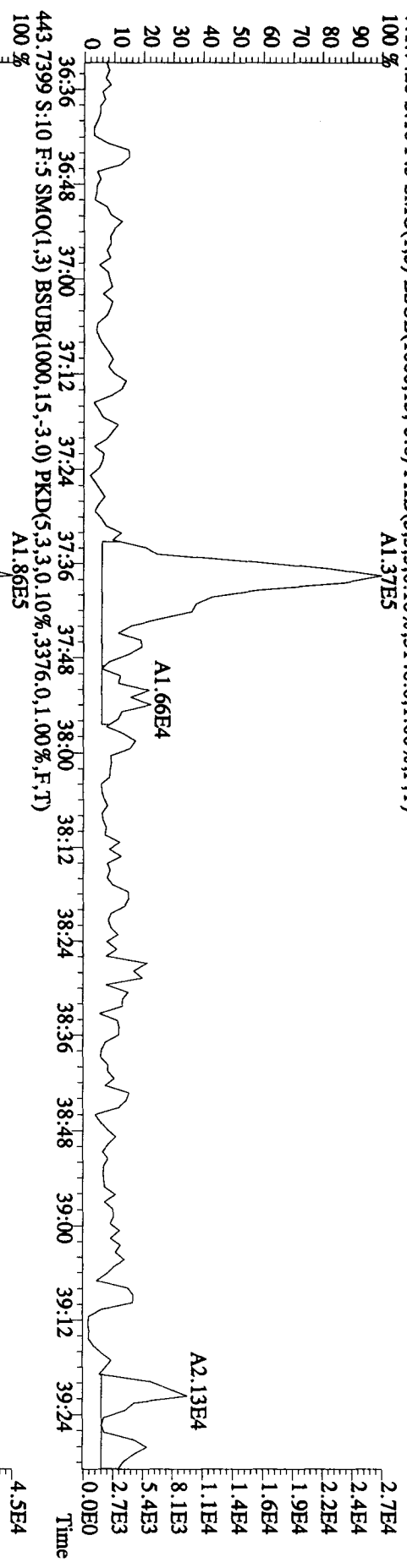




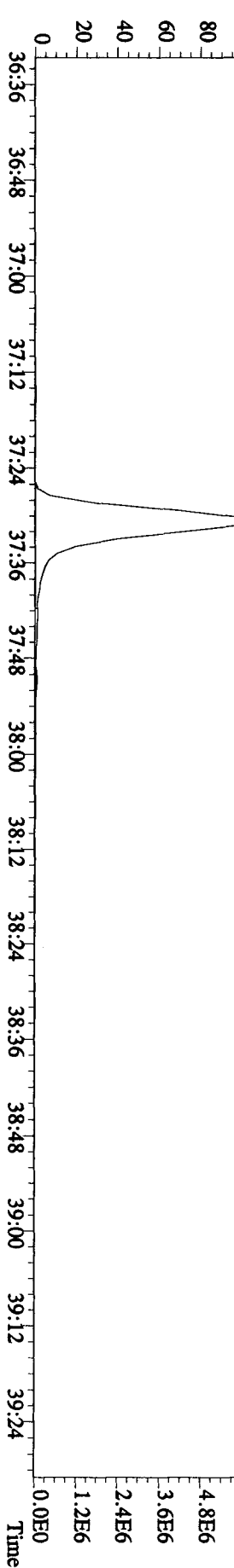
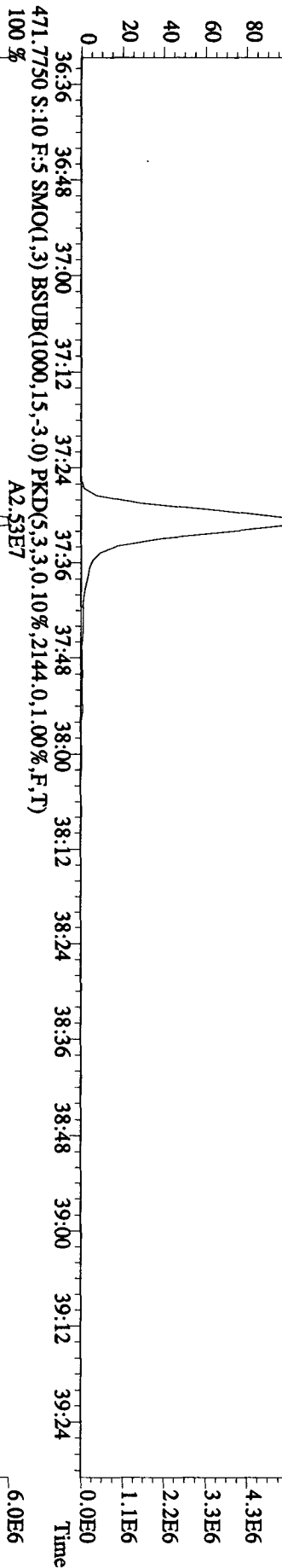
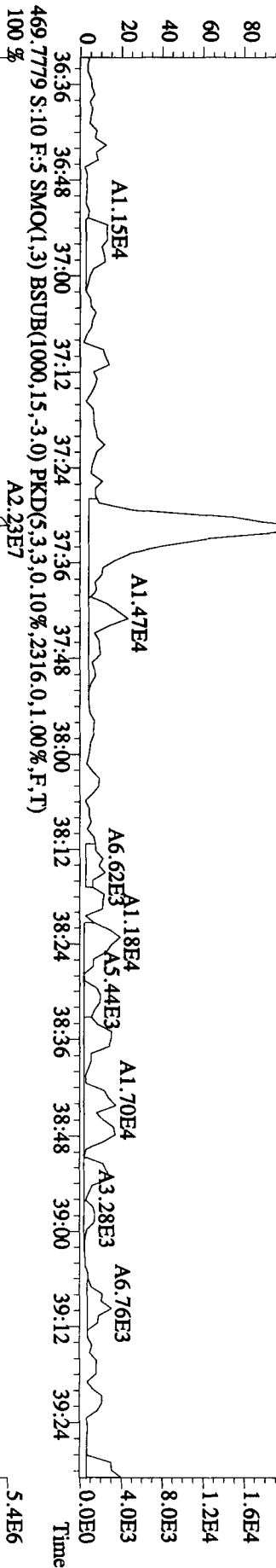
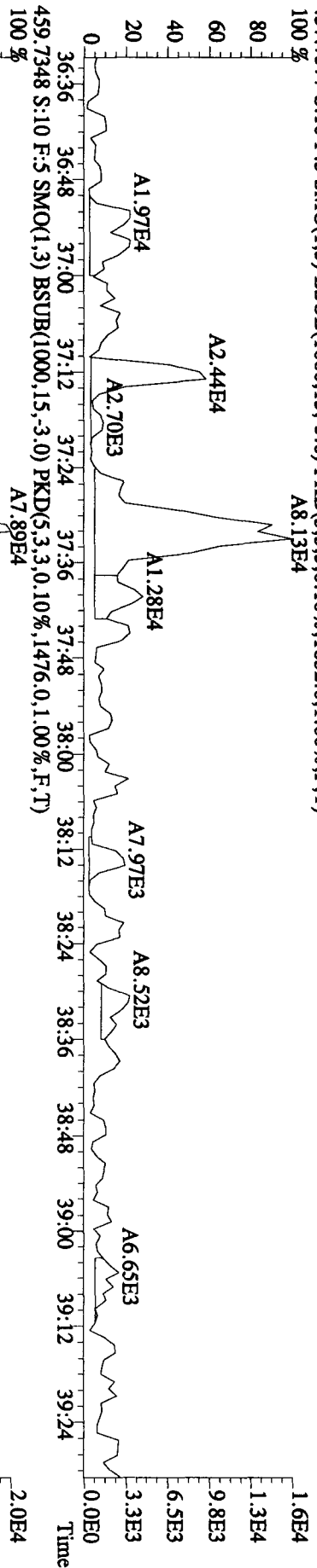
File:25AUI0AID5 #1-214 Acq:26-AUG-2010 04:20:24 GC EI + Voltage SIR 70SE  
 Sample#10 Text:L507H-1-AA :G0H210471-4 Exp:DIOXINRES  
 423.7766 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1832.0,1.00%,F,T)  
 100%



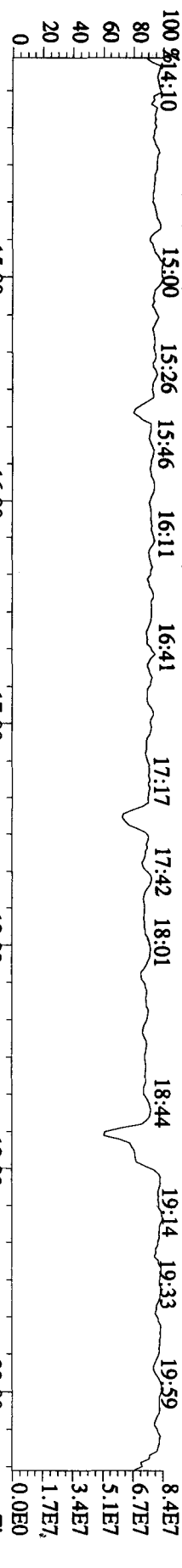
File:25AU10A1D5 #1-196 Acq:26-AUG-2010 04:20:24 GC EI+ Voltage SIR 70SE  
 Sample#10 Text:L507H-1-AA :GOH210471-4 Exp:DIOXINRES  
 441.7428 S:10 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,.3148,0.1,00%,F,T)  
 100% A1.37E5



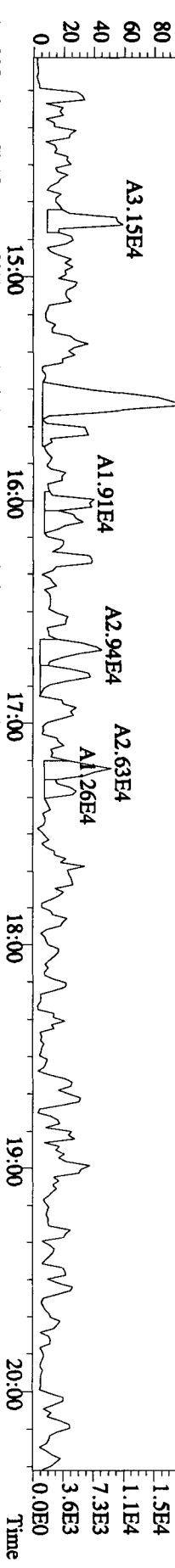
Sample#10 Text:L507H-1-AA :G0H210471-4  
457.7377 S:10 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1652,0,1,00%,F,T)



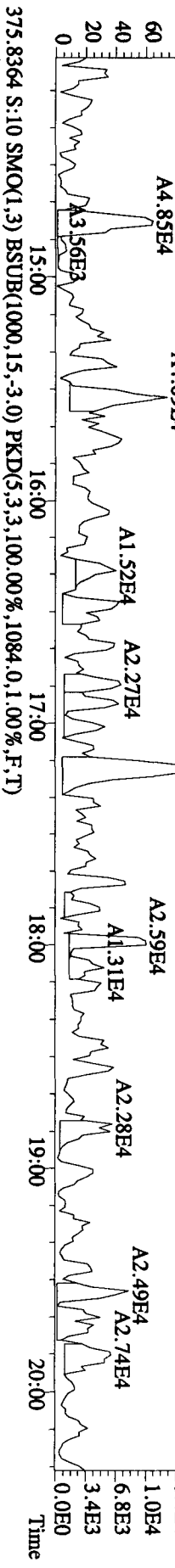
File: 25AU10A1D5 #1-373 Acq: 26-AUG-2010 04:20:24 GC EI+ Voltage SIR 70SE  
 Sample#10 Text: L507H-1-AA :G0H210471-4 Exp: DIOXINRES  
 292.9825 S:10 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)  
 100 % 14:10 15:00 15:26 15:46 16:11 16:41 17:17 17:42 18:01 18:44 19:14 19:33 19:59



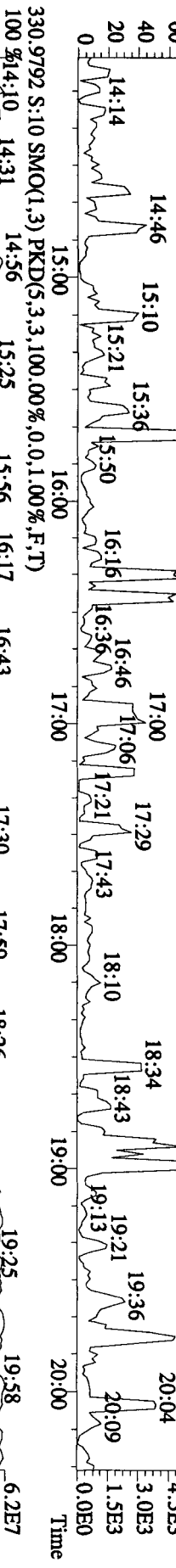
303.9016 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4896,0,1,00%,F,T)  
 100 % 15:00 15:00 15:26 15:46 16:11 16:41 17:00 17:00 17:00 17:00 18:00 18:00 19:00 19:00 20:00 20:00



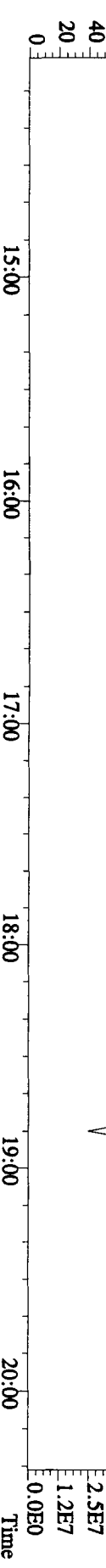
305.8987 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4196,0,1,00%,F,T)  
 100 % 15:00 15:00 15:26 15:46 16:11 16:41 17:00 17:00 17:00 17:00 18:00 18:00 19:00 19:00 20:00 20:00



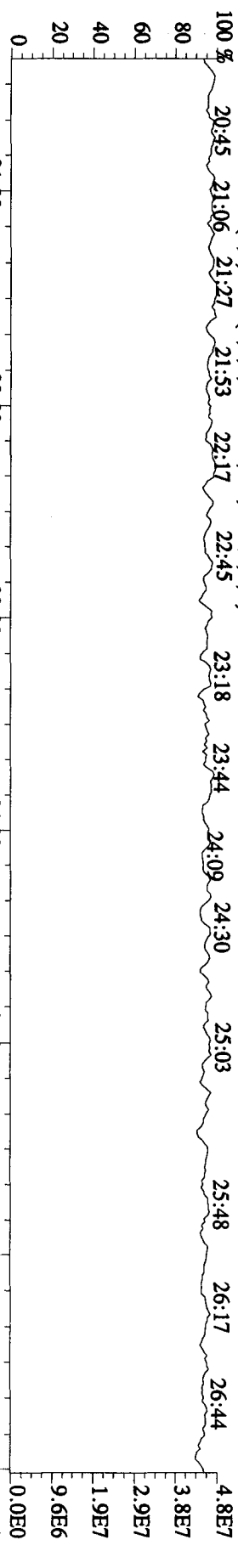
375.8364 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,1084,0,1,00%,F,T)  
 100 % 15:00 15:00 15:26 15:46 16:11 16:41 17:00 17:00 17:00 17:00 18:00 18:00 19:00 19:00 20:00 20:00



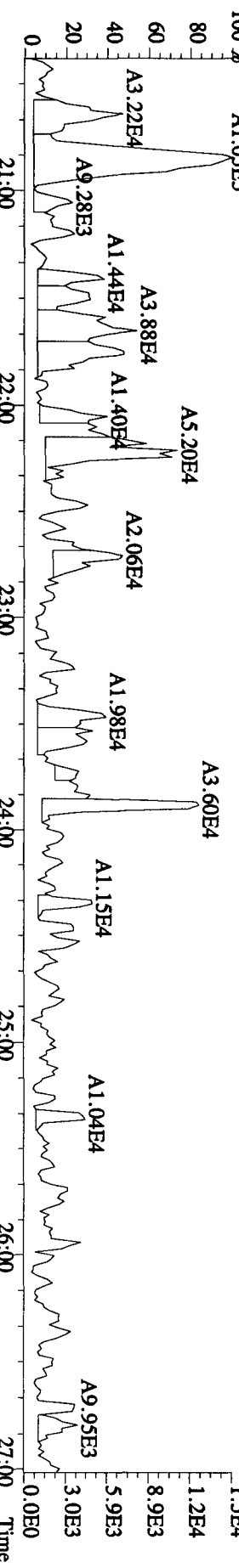
330.9792 S:10 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 100 % 14:10 14:31 14:56 15:25 15:56 16:17 16:43 17:00 17:00 17:00 17:00 18:00 18:00 19:00 19:00 20:00 20:00



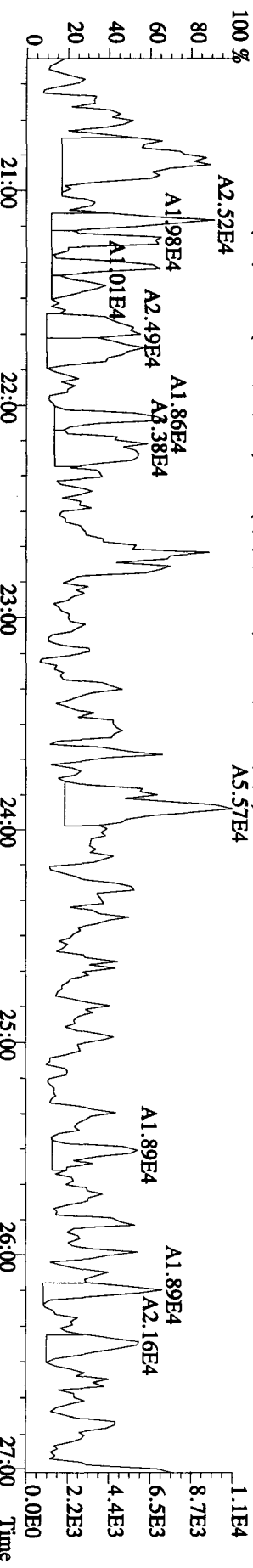
342.9792 S:10 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)  
 20:45 21:06 21:27 21:53 22:17 22:45 23:18 23:44 24:09 24:30 25:03 25:48 26:17 26:44



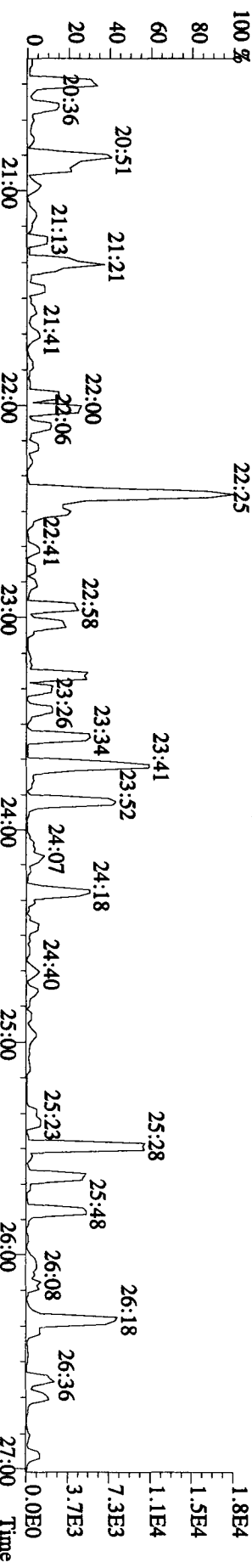
339.8597 S:10 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2084,0,1,00%,F,T)  
 21:00 22:00 23:00 24:00 25:00 26:00 27:00



341.8567 S:10 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3140,0,1,00%,F,T)  
 21:00 22:00 23:00 24:00 25:00 26:00 27:00



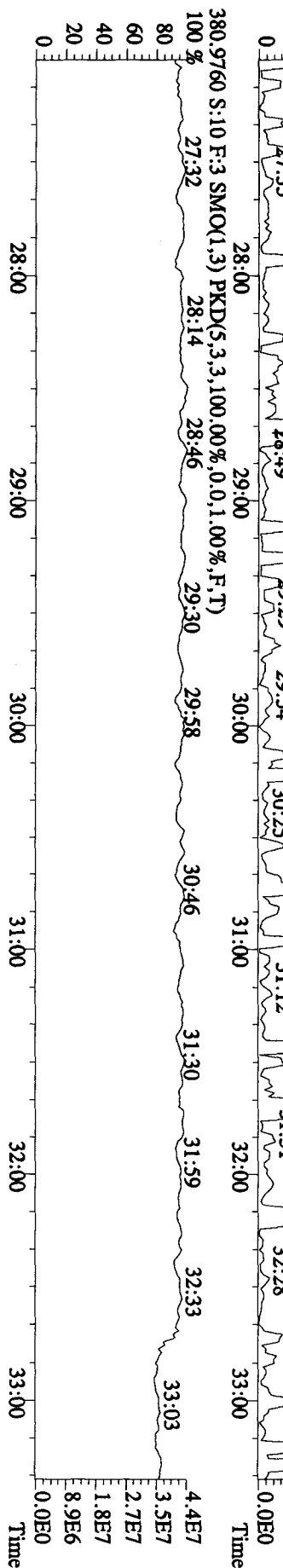
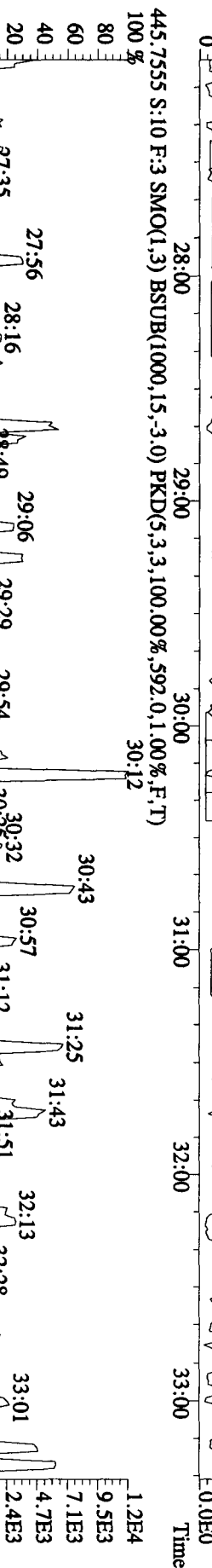
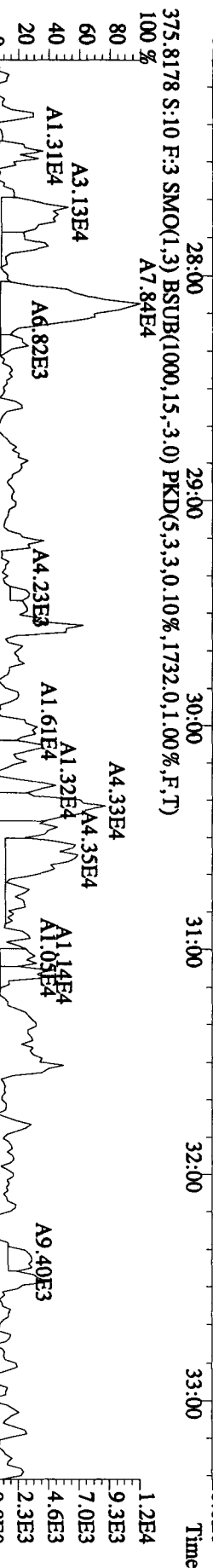
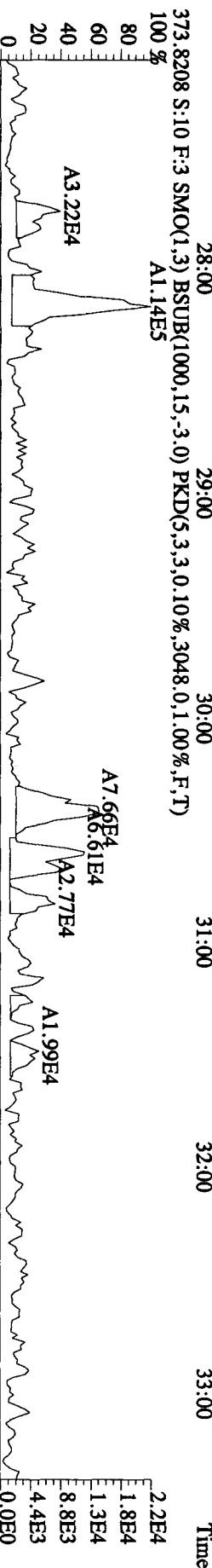
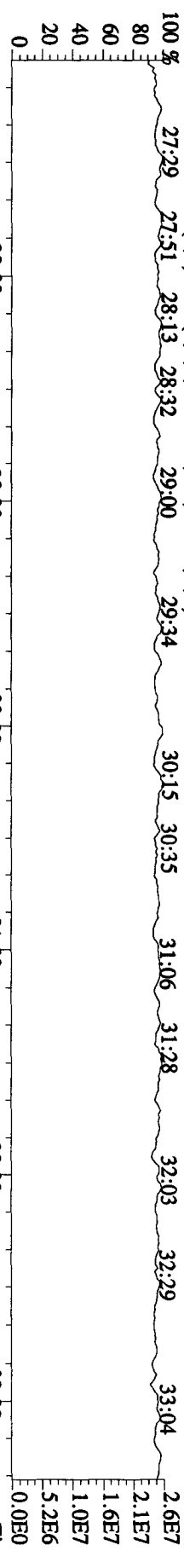
409.7974 S:10 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,472,0,1,00%,F,T)  
 21:00 22:00 23:00 24:00 25:00 26:00 27:00





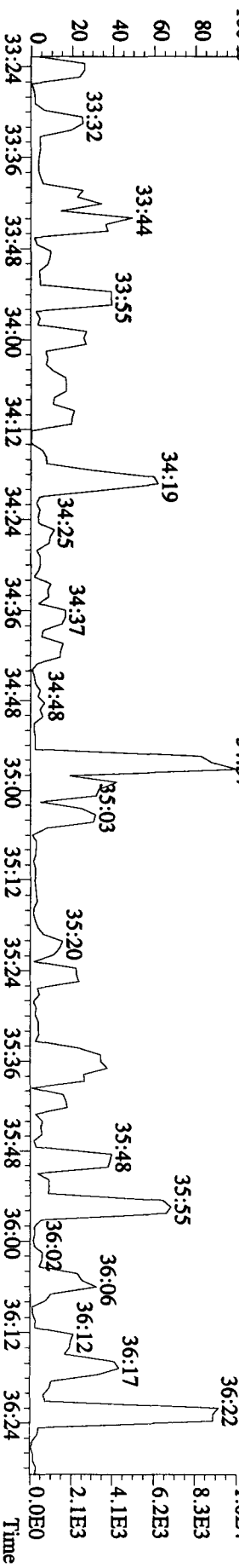
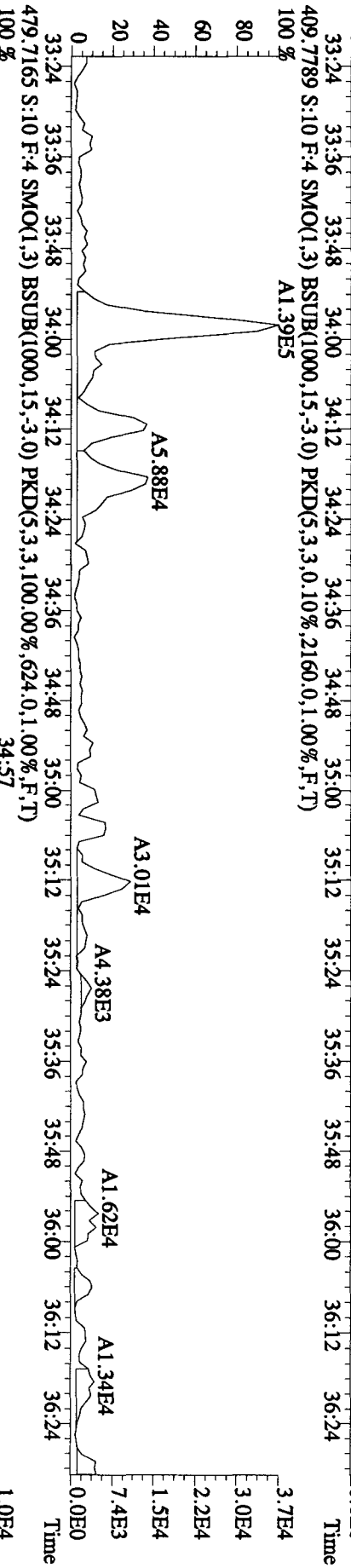
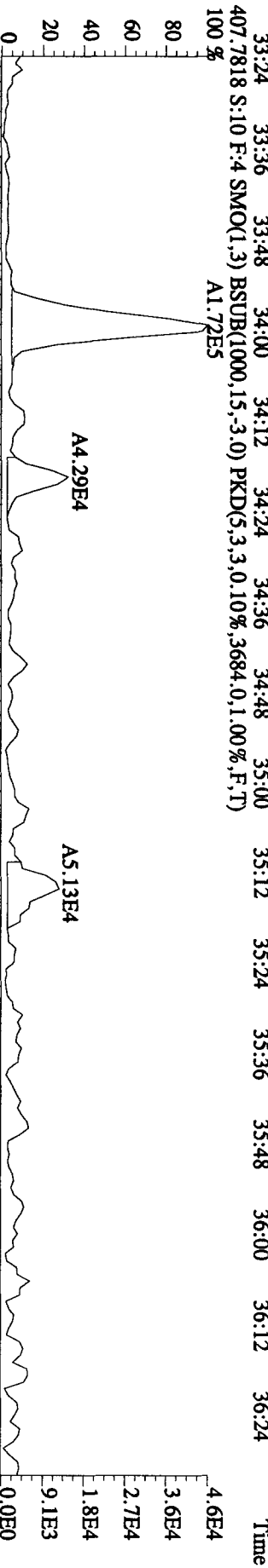
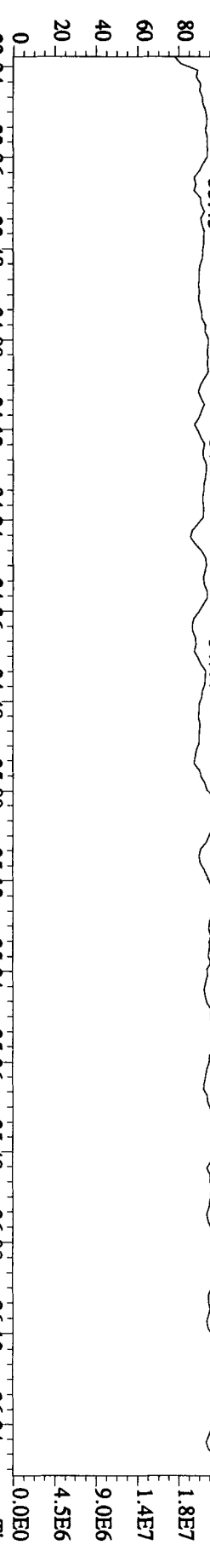
Sample#10 Text: L507H-1-AA : G0H210471-4 Exp: DIOXINRES

392.9760 S:10 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

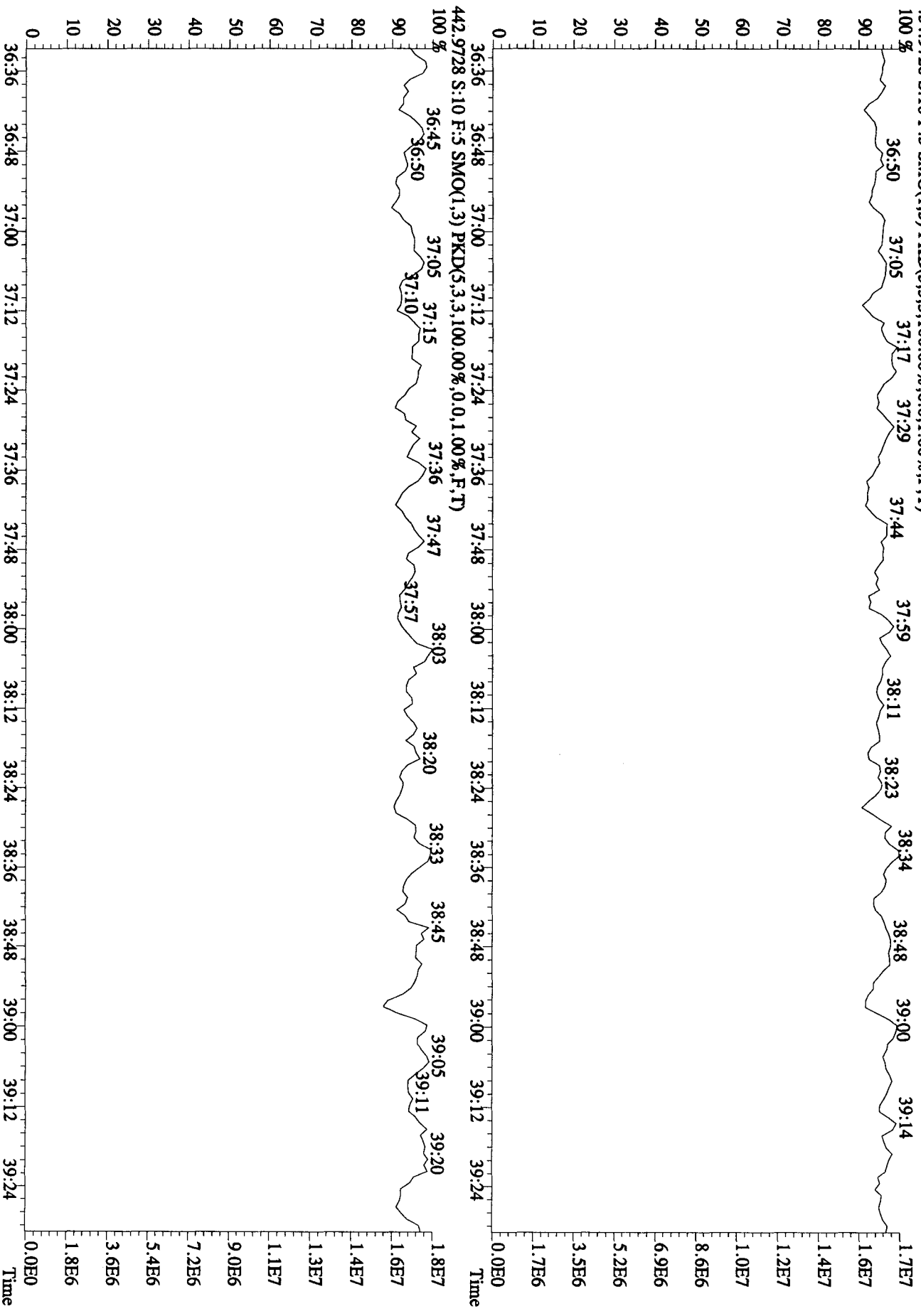


Sample#10 Text:L507H-1-AA :G0H210471-4

430.9728 S:10 F:4 SMO(1,3) PKD(5,3,3,100,00%,0.0,1.00%,F,T)



File: 25AU10A1D5 #1-196 Acq: 26-AUG-2010 04:20:24 GC EI+ Voltage SIR 70SE  
 Sample#10 Text: L507H-1-AA : G0H210471-4 Exp: DIOXINRES  
 454.9728 S:10 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 %



Daily Calibration Checklist  
Dioxin Methods

Method ID T09

Associated ICAL T090727101D5

Column ID DB5 ~~GA 8/27/10~~ ~~2-12/10~~

Instrument ID 1D5

STD ID ST0825D, ST0825E

STD Solution 10D N417

Analyzed by A.M., M.G

Date Analyzed 8/25/10, 8/26/10

Std. Pkg. By M.G.

Date Std. Pkg. Assembled 8/27/10

Std. Pkg. Reviewed By KSS

Date Std. Pkg. Reviewed 8/27/10

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?	✓ (1)	✓ (1)
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: (1) 20.6% dev. for 1,2,3,4,7,8-HxCDF in ending standard. - use ave. RRF = 1.23.  
PCM # 07-011510

\* 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: ST0825D File text: ST0825D :CS3 10DXN417  
 Run #6 Filename 25AU10A1D5 S: 3 I: 1  
 Acquired: 25-AUG-10 23:10:11 Processed: 26-AUG-10 15:08:16  
 Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	107993700	0.78 y	17:45	-	100.00	-	n
13C-2,3,7,8-TCDF	162242300	0.79 y	17:14	1.50	100.00	-3.8	n
2,3,7,8-TCDF	13641610	0.78 y	17:15	0.84	10.00	-3.9	n
Total TCDF	13775680	0.65 n	16:52	0.84	10.00	-3.9	n
13C-2,3,7,8-TCDD	102411100	0.78 y	17:56	0.95	100.00	1.4	n
2,3,7,8-TCDD	8532650	0.75 y	17:57	0.83	10.00	-13.0	n
Total TCDD	8574055	0.75 y	17:57	0.83	10.00	-13.0	n
37Cl-2,3,7,8-TCDD	11016780	1.00 y	17:57	1.08	10.00	-11.6	n
13C-1,2,3,7,8-PeCDF	125690000	1.68 y	22:16	1.16	100.00	9.6	n
1,2,3,7,8-PeCDF	70745600	1.68 y	22:18	1.13	50.00	4.2	n
2,3,4,7,8-PeCDF	65102300	1.66 y	23:37	1.04	50.00	5.7	n
Total F2 PeCDF	137147107	1.94 n	20:55	1.08	100.00	4.9	n
Total F1 PeCDF	167713	0.18 n	14:39	1.08	100.00	4.9	n
13C-1,2,3,7,8-PeCDD	74498900	1.72 y	24:18	0.69	100.00	6.8	n
1,2,3,7,8-PeCDD	37232800	1.68 y	24:19	1.00	50.00	8.1	n
Total PeCDD	37309664	1.82 n	23:59	1.00	50.00	8.1	n
13C-1,2,3,7,8,9-HxCDD	79037500	1.28 y	32:11	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	88458100	0.50 y	30:27	1.12	100.00	13.5	n
1,2,3,4,7,8-HxCDF	47476200	1.28 y	30:28	1.07	50.00	-6.9	n
1,2,3,6,7,8-HxCDF	50255500	1.27 y	30:40	1.14	50.00	-8.6	n
2,3,4,6,7,8-HxCDF	47422100	1.30 y	31:32	1.07	50.00	-11.9	n
1,2,3,7,8,9-HxCDF	46950900	1.29 y	32:24	1.06	50.00	-10.4	n
Total HxCDF	192104700	1.28 y	30:28	1.09	200.00	-9.5	n
13C-1,2,3,6,7,8-HxCDD	61946100	1.29 y	31:50	0.78	100.00	2.1	n
1,2,3,4,7,8-HxCDD	34670800	1.31 y	31:44	1.12	50.00	8.8	n
1,2,3,6,7,8-HxCDD	37675800	1.28 y	31:51	1.22	50.00	9.9	n
1,2,3,7,8,9-HxCDD	43236000	1.30 y	32:12	1.40	50.00	12.4	n
Total HxCDD	115582600	1.31 y	31:44	1.24	150.00	10.5	n
13C-1,2,3,4,6,7,8-HpCDF	68466700	0.43 y	34:00	0.87	100.00	-11.7	n
1,2,3,4,6,7,8-HpCDF	52952800	1.05 y	34:00	1.55	50.00	14.6	n
1,2,3,4,7,8,9-HpCDF	43910000	1.04 y	35:14	1.28	50.00	8.1	n
Total HpCDF	96862800	1.05 y	34:00	1.41	100.00	11.6	n
13C-1,2,3,4,6,7,8-HpCDD	56593200	1.12 y	34:54	0.72	100.00	-11.1	n
1,2,3,4,6,7,8-HpCDD	32068200	1.06 y	34:55	1.13	50.00	10.4	n
Total HpCDD	32185736	0.80 n	34:00	1.13	50.00	10.4	n
13C-OCDD	74082200	0.92 y	37:33	0.47	200.00	-23.8	n
OCDF	61634400	0.88 y	37:40	1.66	100.00	15.2	n
OCDD	46886000	0.88 y	37:33	1.27	100.00	16.1	n

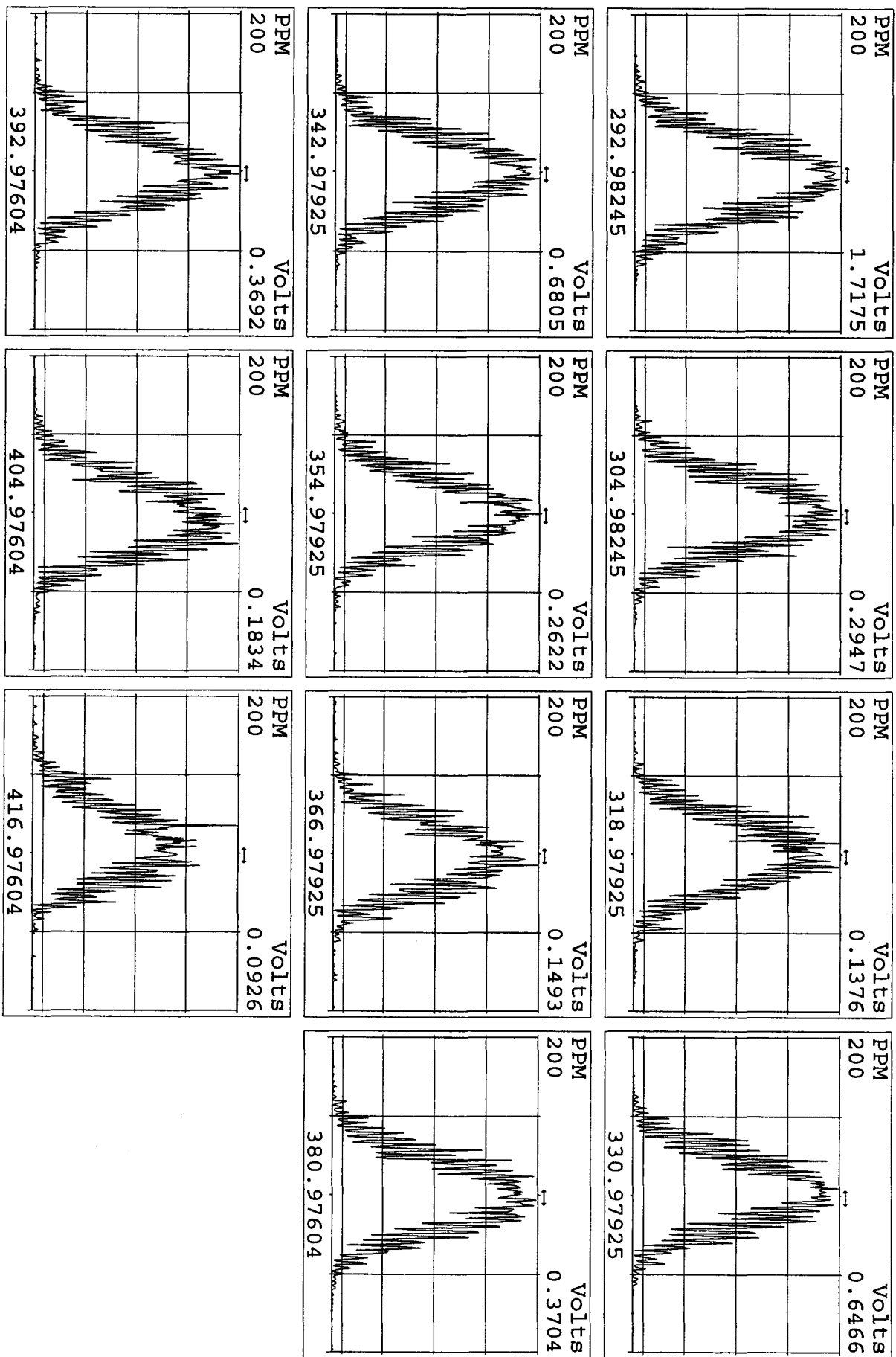
Run text: ST0825E File text: ST0825E :CS3 10DXN417  
 Run #15 Filename 25AU10A1D5 S: 14 I: 1  
 Acquired: 26-AUG-10 07:16:13 Processed: 26-AUG-10 15:12:03  
 Run: 25AU10A1D5 Analyte: TO9 Cal: TO90727101D5 Results: 25AU10A1D5TO9

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	139767200	0.77 y	17:41	-	100.00	-	n
13C-2,3,7,8-TCDF	205916400	0.81 y	17:10	1.47	100.00	-5.7	n
2,3,7,8-TCDF	20221590	0.76 y	17:11	0.98	10.00	12.2	n
Total TCDF	20481893	0.38 n	15:16	0.98	10.00	12.2	n
13C-2,3,7,8-TCDD	127916200	0.78 y	17:52	0.92	100.00	-2.2	n
2,3,7,8-TCDD	11145200	0.71 y	17:53	0.87	10.00	-9.0	n
Total TCDD	11197948	0.71 y	14:44	0.87	10.00	-9.0	n
37Cl-2,3,7,8-TCDD	13954040	1.00 y	17:53	1.09	10.00	-10.3	n
13C-1,2,3,7,8-PeCDF	154803900	1.62 y	22:10	1.11	100.00	4.3	n
1,2,3,7,8-PeCDF	89117600	1.62 y	22:11	1.15	50.00	6.6	n
2,3,4,7,8-PeCDF	81972400	1.62 y	23:29	1.06	50.00	8.0	n
Total F2 PeCDF	173260533	1.09 n	20:50	1.11	100.00	7.3	n
Total F1 PeCDF	191082	1.21 n	15:16	1.11	100.00	7.3	n
13C-1,2,3,7,8-PeCDD	87665700	1.65 y	24:11	0.63	100.00	-2.9	n
1,2,3,7,8-PeCDD	46090000	1.65 y	24:12	1.05	50.00	13.7	n
Total PeCDD	46240707	2.16 n	23:52	1.05	50.00	13.7	n
13C-1,2,3,7,8,9-HxCDD	98255100	1.29 y	32:08	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	105095500	0.52 y	30:20	1.07	100.00	8.5	n
1,2,3,4,7,8-HxCDF	73104300	1.29 y	30:22	1.39	50.00	20.6	n
1,2,3,6,7,8-HxCDF	72174600	1.12 y	30:34	1.37	50.00	10.5	n
2,3,4,6,7,8-HxCDF	58426300	1.26 y	31:27	1.11	50.00	-8.7	n
1,2,3,7,8,9-HxCDF	56600400	1.26 y	32:21	1.08	50.00	-9.1	n
Total HxCDF	260462620	1.29 y	30:22	1.24	200.00	3.2	n
13C-1,2,3,6,7,8-HxCDD	73498000	1.29 y	31:46	0.75	100.00	-2.6	n
1,2,3,4,7,8-HxCDD	41495100	1.28 y	31:40	1.13	50.00	9.7	n
1,2,3,6,7,8-HxCDD	45530600	1.30 y	31:47	1.24	50.00	12.0	n
1,2,3,7,8,9-HxCDD	53447500	1.26 y	32:09	1.45	50.00	17.1	n
Total HxCDD	140473200	1.28 y	31:40	1.27	150.00	13.2	n
13C-1,2,3,4,6,7,8-HpCDF	77474100	0.43 y	33:57	0.79	100.00	-19.6	n
1,2,3,4,6,7,8-HpCDF	61054000	1.05 y	33:58	1.58	50.00	16.8	n
1,2,3,4,7,8,9-HpCDF	52195700	1.05 y	35:11	1.35	50.00	13.6	n
Total HpCDF	113249700	1.05 y	33:58	1.46	100.00	15.3	n
13C-1,2,3,4,6,7,8-HpCDD	63546900	1.04 y	34:51	0.65	100.00	-19.7	n
1,2,3,4,6,7,8-HpCDD	36159700	1.05 y	34:52	1.14	50.00	10.9	n
Total HpCDD	36388117	1.42 n	34:15	1.14	50.00	10.9	n
13C-OCDD	85485800	0.88 y	37:30	0.44	200.00	-29.3	n
OCDF	74256300	0.89 y	37:37	1.74	100.00	20.2	n
OCDD	54852600	0.91 y	37:31	1.28	100.00	17.7	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
25AU10A1D5	1	CP0825	DB-5 CPSM 3732-08				1.00000	
25AU10A1D5	2	ST0825C	CS3 10DXN336				1.00000	
25AU10A1D5	3	ST0825D	CS3 10DXN417				1.00000	
25AU10A1D5	4	L518H-1-AA	G0H230000-312B	20	TO-9/AIR	8	0.50000	Sam
25AU10A1D5	5	L518H-1-AC	G0H230000-312C	20	TO-9/AIR		0.50000	Sam
25AU10A1D5	6	L518H-1-AD	G0H230000-312L	20	TO-9/AIR		0.50000	Sam
25AU10A1D5	7	L507E-1-AA	G0H210471-1	20	TO-9/AIR		0.50000	Sam
25AU10A1D5	8	L507F-1-AA	G0H210471-2	20	TO-9/AIR		0.50000	Sam
25AU10A1D5	9	L507G-1-AA	G0H210471-3	20	TO-9/AIR		0.50000	Sam
25AU10A1D5	10	L507H-1-AA	G0H210471-4	20	TO-9/AIR		0.50000	Sam
25AU10A1D5	11	L5PEJ-1-AC	G0H170547-1	20	8290/SOLID	5	10.30000	g
25AU10A1D5	12	L5PEK-1-AC	G0H170547-2	20	8290/SOLID		10.24000	g
25AU10A1D5	13	L51AK-1-AC	G0H220000-37C	20	8290/SOLID		10.00000	g
25AU10A1D5	14	ST0825E	CS3 10DXN417				1.00000	
25AU10A1D5	15	CP0825A	DB-5 CPSM 3732-08				1.00000	
25AU10A1D5	16	ST0825F	CS3 10DXN336				1.00000	
25AU10A1D5	17	SB0825	Solvent Blank C-14				1.00000	
25AU10A1D5	18	L5WVJ-1-AA	G0H200000-232B	20	23/AIR	5	0.50000	Sam
25AU10A1D5	19	L5WVJ-1-AC	G0H200000-232C	20	23/AIR		0.50000	Sam
25AU10A1D5	20	L5WVJ-1-AD	G0H200000-232L	20	23/AIR		0.50000	Sam
25AU10A1D5	21	L5T4T-1-AA	G0H190508-1	20	23/AIR		0.50000	Sam
25AU10A1D5	22	L5T43-1-AA	G0H190508-2	20	23/AIR		0.50000	Sam
25AU10A1D5	23	L5T45-1-AA	G0H190508-3	20	23/AIR		0.50000	Sam
25AU10A1D5	24	L5T46-1-AA	G0H190508-4	20	23/AIR		0.50000	Sam
25AU10A1D5	25	L5PEL-1-AC	G0H170547-3	20	8290/SOLID		10.00000	g
25AU10A1D5	26	L5PEN-1-AC	G0H170547-4	20	8290/SOLID		10.18000	g
25AU10A1D5	27	L5PEP-1-AC	G0H170547-5	20	8290/SOLID		10.04000	g
25AU10A1D5	28	L5PET-1-AC	G0H170547-7	20	8290/SOLID		10.76000	g
25AU10A1D5	29	Resin QC	081910-2QC	20	23	3	1.00000	Sam
25AU10A1D5	30	ST0825G	CS3 10DXN417				1.00000	
25AU10A1D5	31	ST0825H	CS3 10DXN417				1.00000	
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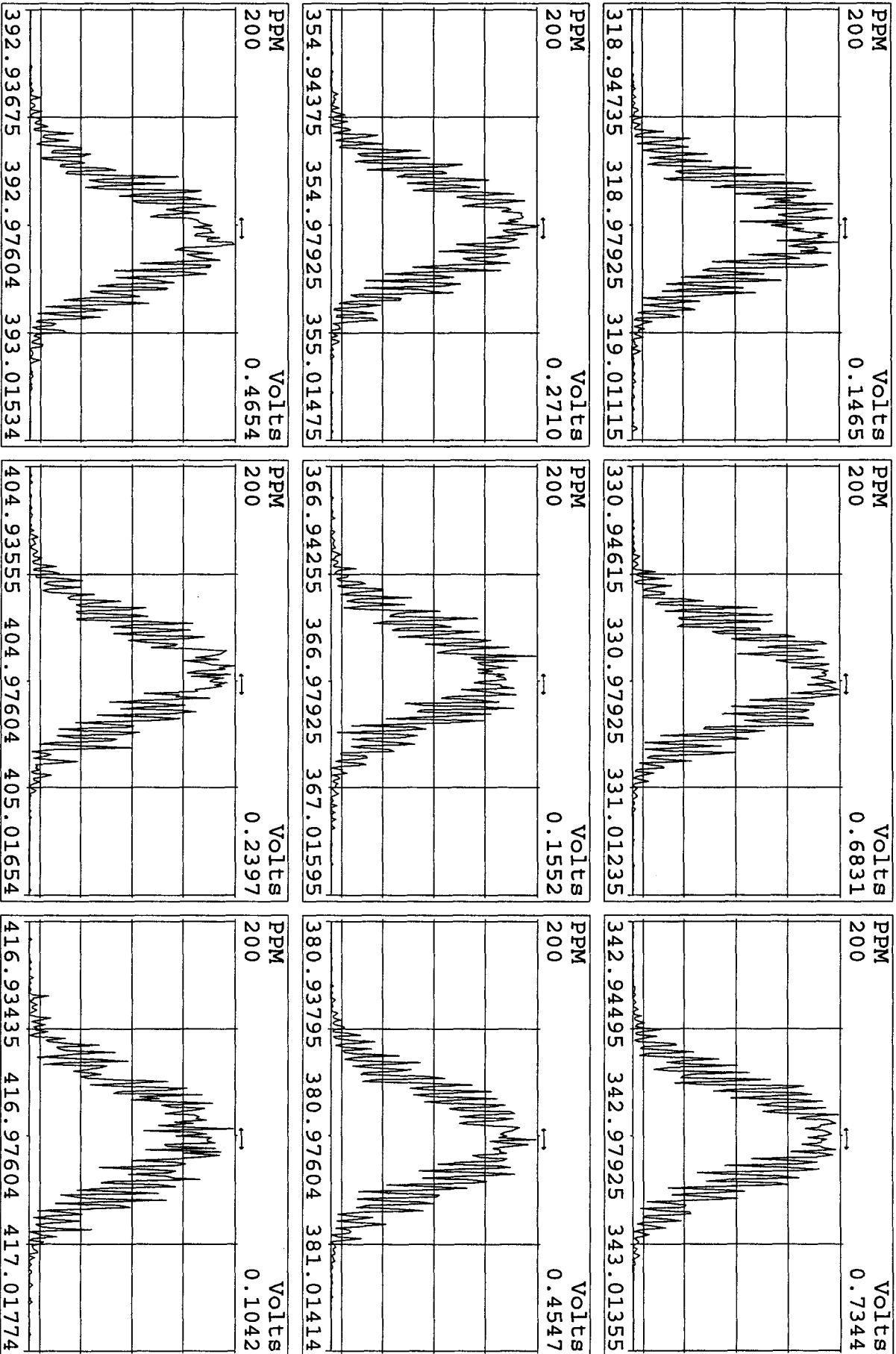
log file reviewed  
8-26-10 am

Peak Locate Examination: 25-AUG-2010: 21:21 File: 25AU10A1D5  
Experiment: DIOXINRES Function: 1 Reference: PFK

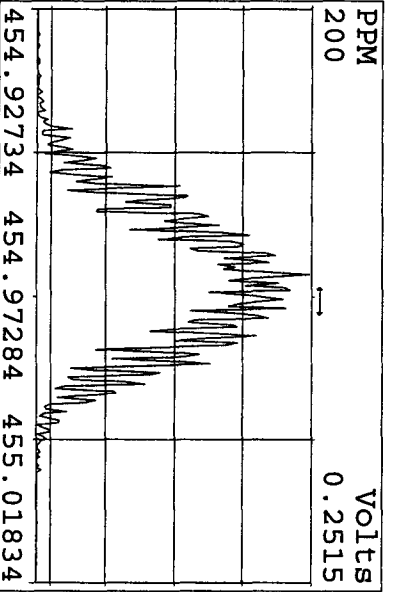
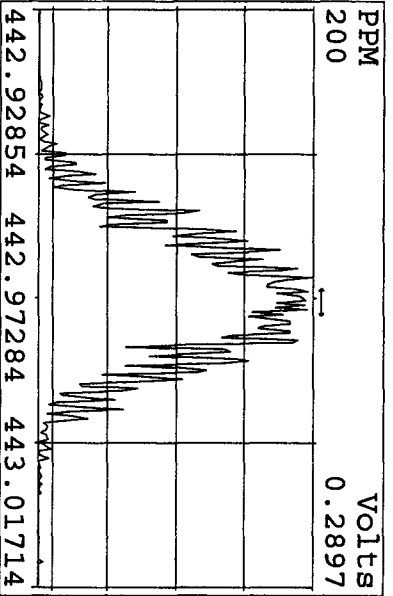
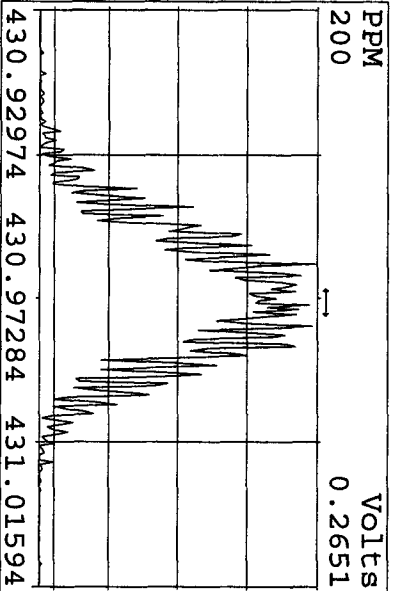
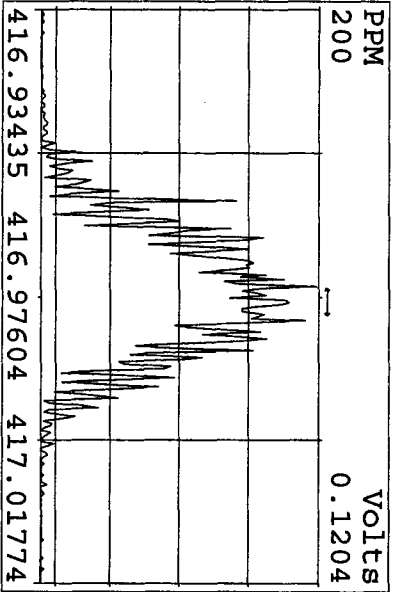
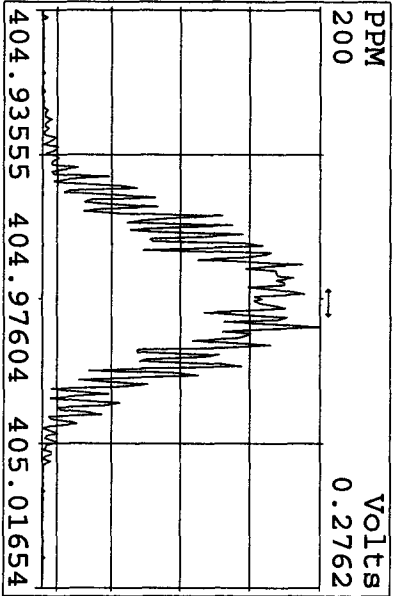
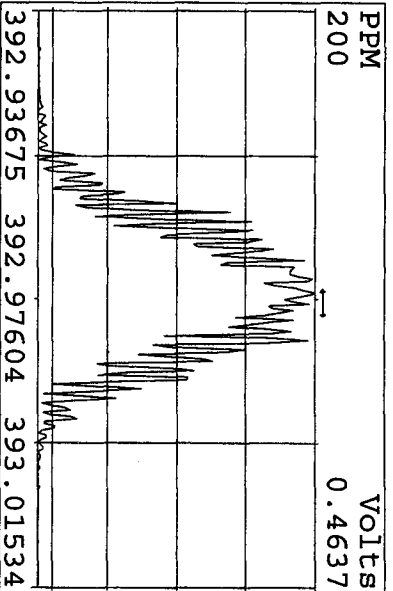
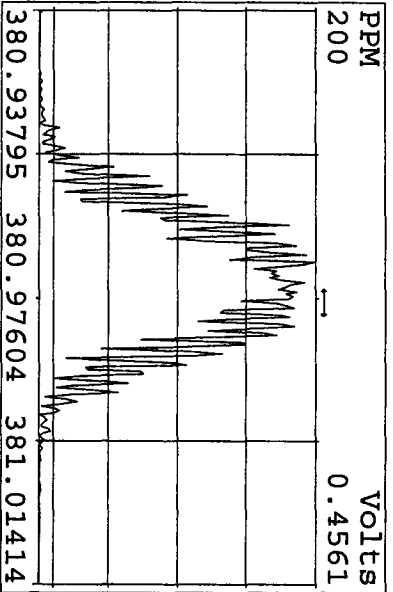
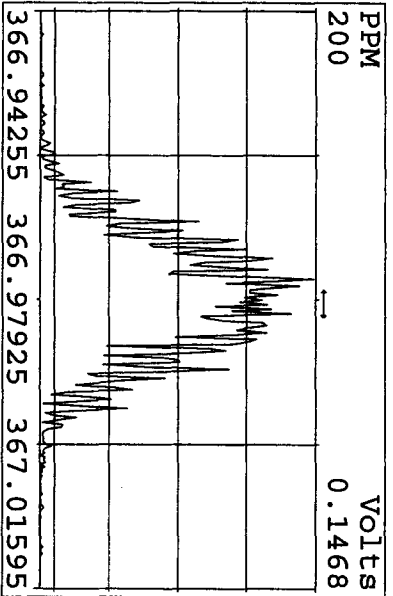




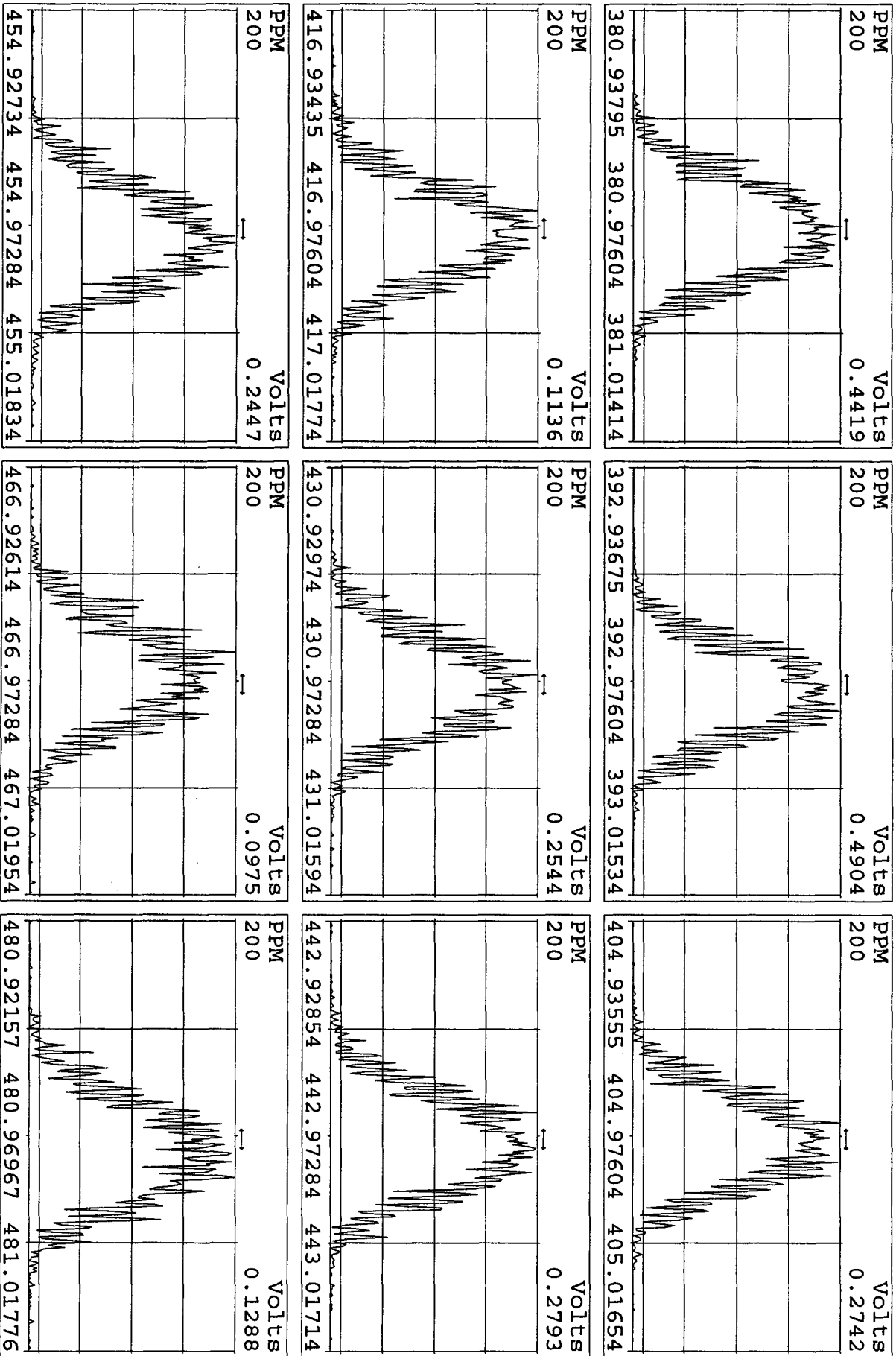
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 Experiment: DIOXINRES Function: 2 Reference: PFK



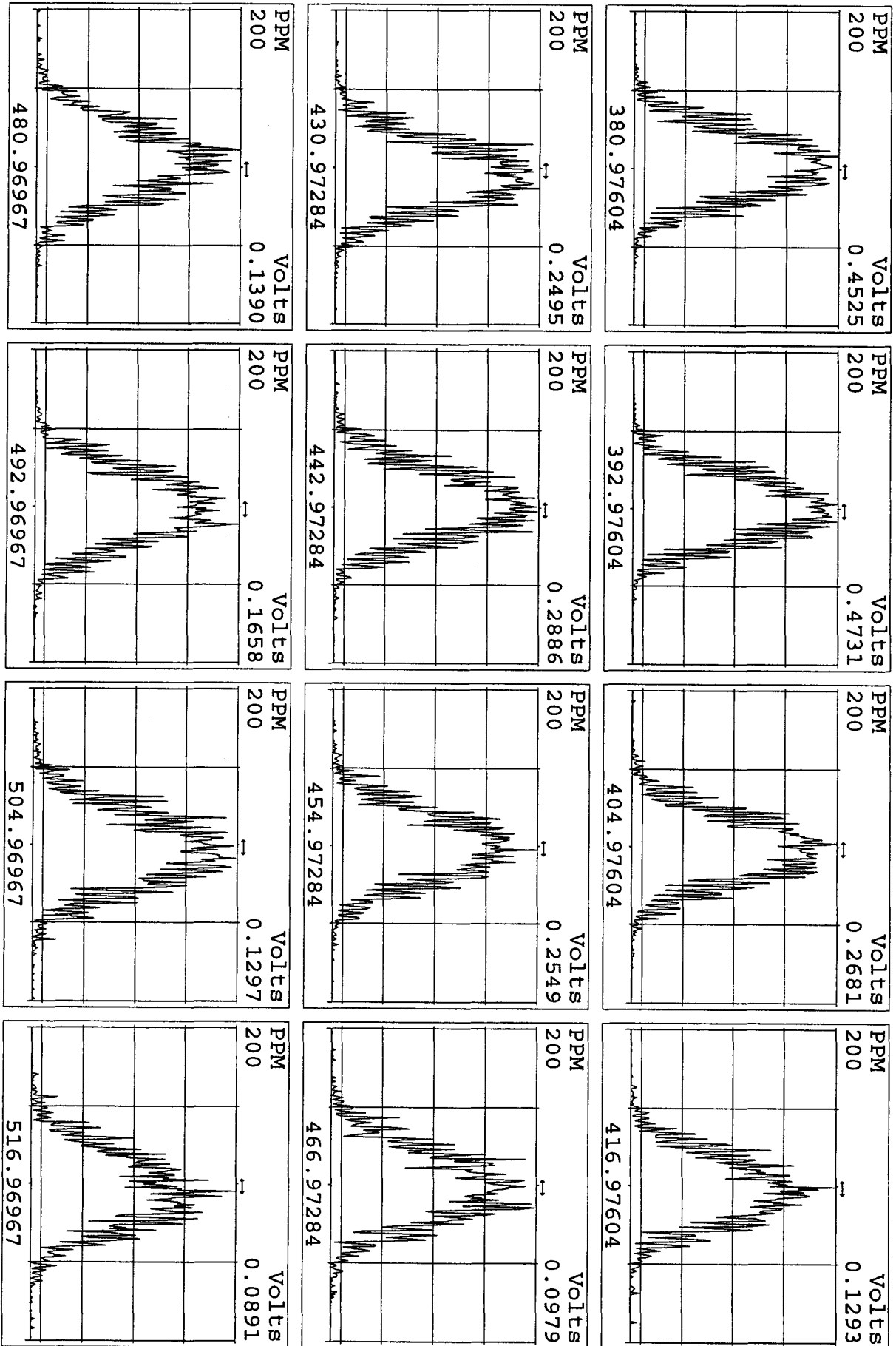
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 Experiment: DIOXINRES Function: 3 Reference: PFK



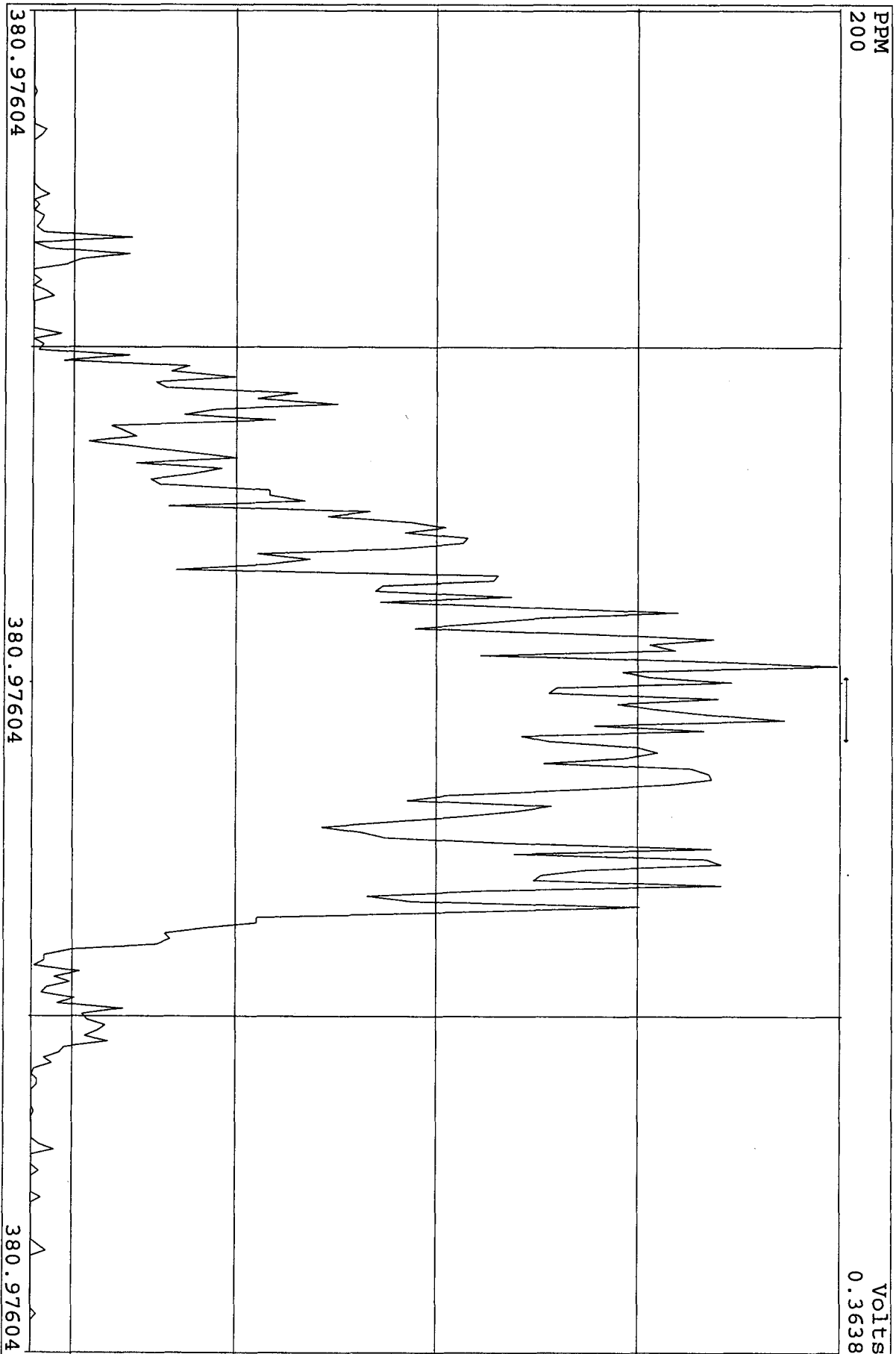
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 Experiment: DIOXINRES Function: 4 Reference: PFK



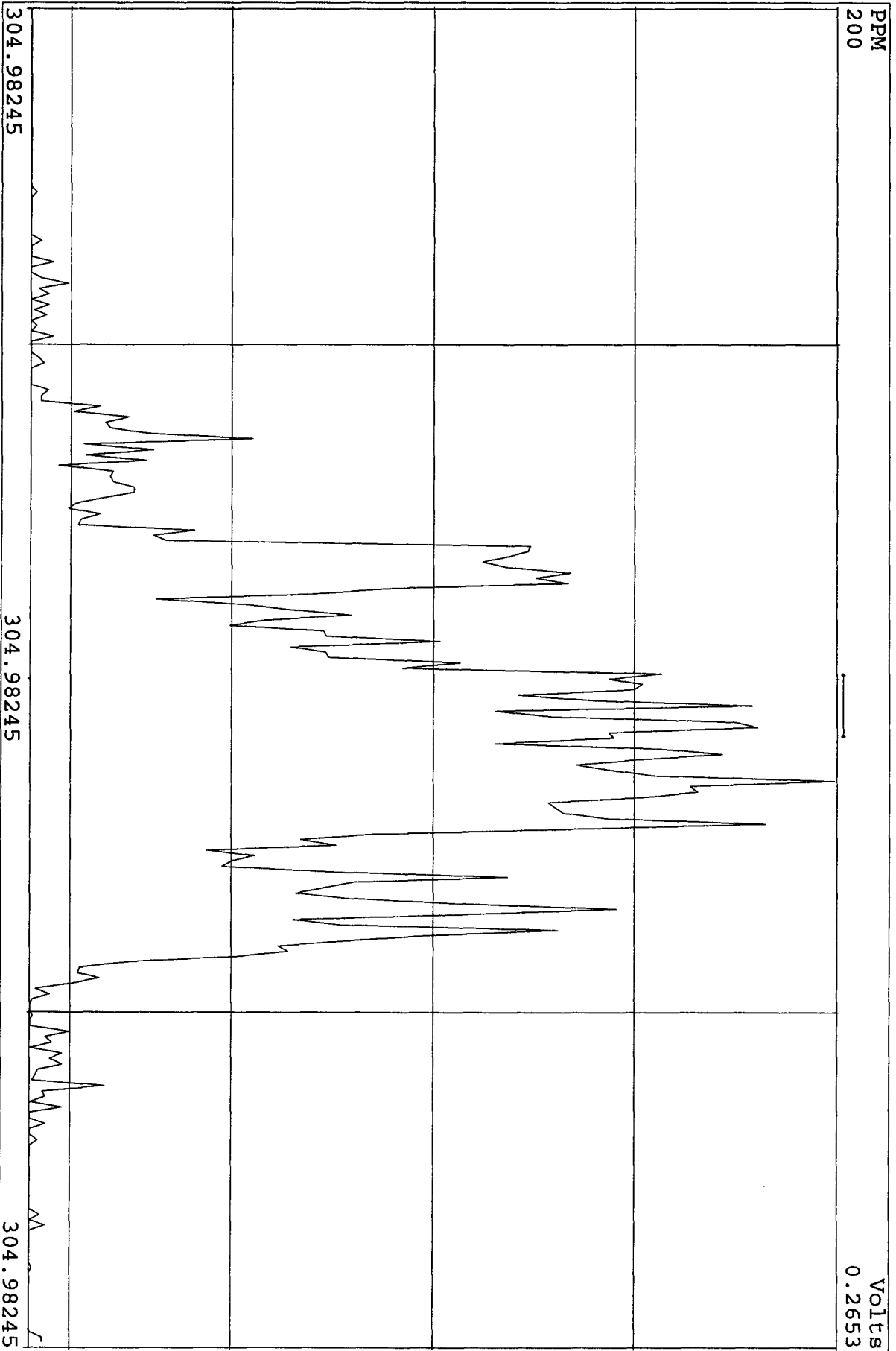
Peak Locate Examination:25-AUG-2010:21:35 File:25AU10A1D5  
Experiment:DIOXINRES Function:5 Reference:PFK



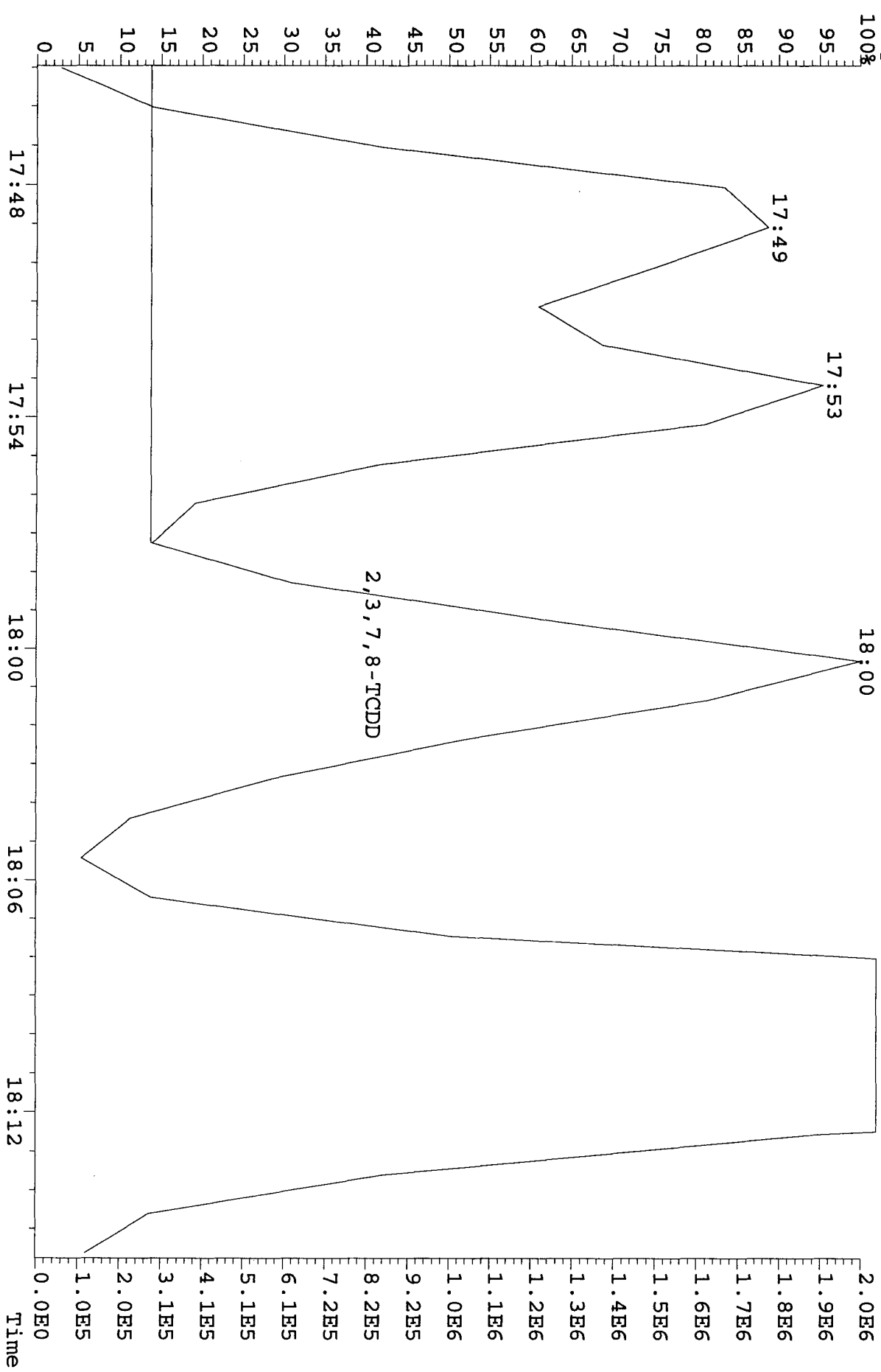
SIRLM Examination: 26-AUG-2010:07:56 File: 25AU10A1D5  
Experiment: DIOXINRES Function: 6



SIRLM Examination: 26-AUG-2010: 07:57 File: 25AU10A1DS  
Experiment: DIOXINRES Function: 7



File: 25AU10A1D5 #1-372 Acq: 25-AUG-2010 21:38:22 GC EI+ Voltage SIR 70SE  
321.8936 Exp: DIOXINRES  
Sample Text: CP0825 : DB-5 CPSM 3732-08



Run: 25AUI0AIDS Analyte: TO9 Cal: TO9072710IDS

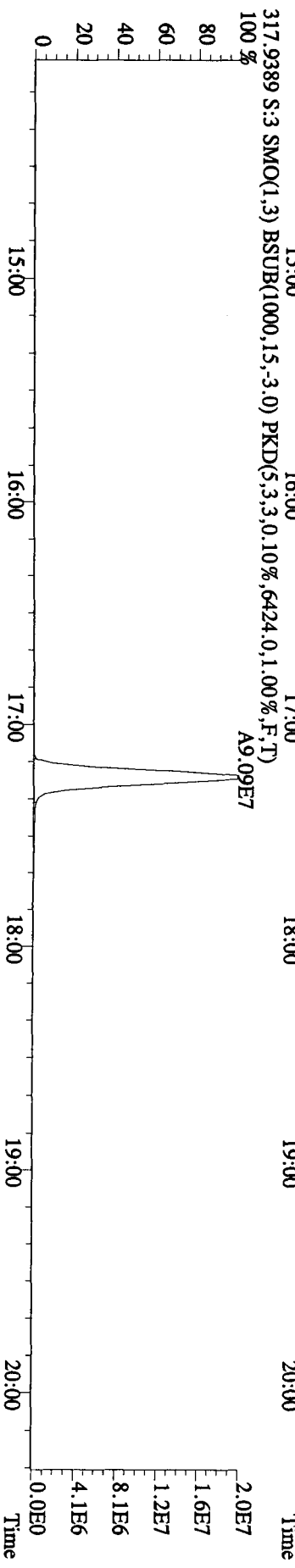
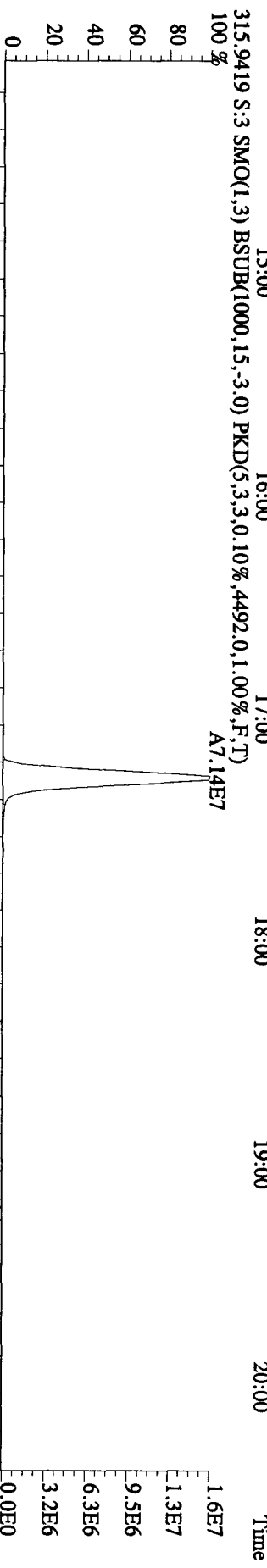
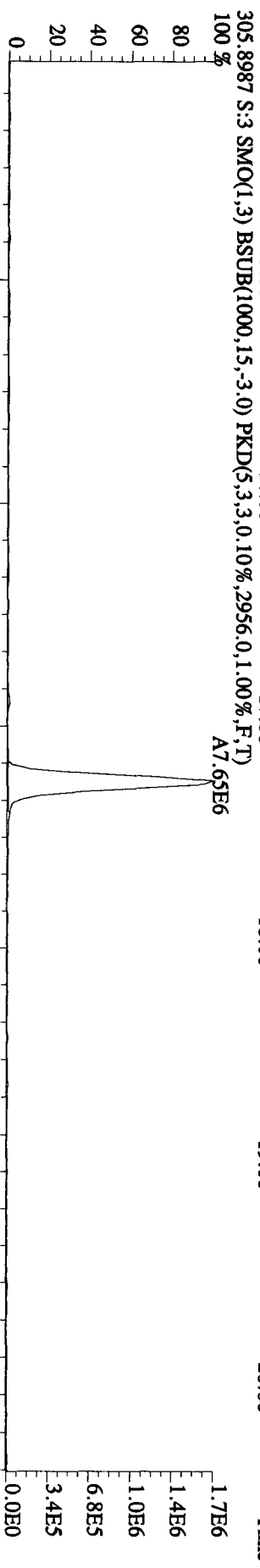
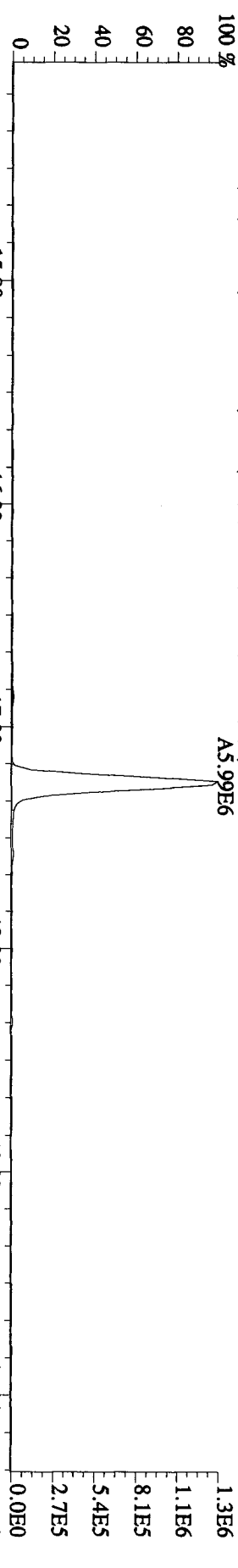
ST0727C :CS1 10DXN342 ST0727A :CS2 10DXN335 ST0727 :CS3 10DXN336  
 ST0727E :CS4 10DXN337 ST0727D :CS5 10DXN339

Name	Mean	S. D.	%RSD	27JL10IDS 27JL10IDS 27JL10IDS 27JL10IDS 27JL10IDS						
				S5	S3	S2	S7	S6		
				RRF1	RRF2	RRF3	RRF4	RRF5		
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-		
13C-2,3,7,8-TCDF	1.562	0.047	3.01 %	1.50	1.53	1.58	1.57	1.63		
2,3,7,8-TCDF	0.875	0.124	14.2 %	0.72	0.80	0.87	1.00	0.99		
Total TCDF	0.875	0.124	14.2 %	0.72	0.80	0.87	1.00	0.99		
13C-2,3,7,8-TCDD	0.935	0.034	3.61 %	0.95	0.94	0.96	0.88	0.95		
2,3,7,8-TCDD	0.957	0.129	13.5 %	0.84	0.83	0.93	1.09	1.10		
Total TCDD	0.957	0.129	13.5 %	0.84	0.83	0.93	1.09	1.10		
37Cl-2,3,7,8-TCDD	1.216	0.130	10.7 %	1.21	1.04	1.14	1.32	1.36		
13C-1,2,3,7,8-PeCDF	1.062	0.125	11.8 %	1.17	1.16	1.13	0.94	0.91		
1,2,3,7,8-PeCDF	1.080	0.159	14.7 %	0.88	0.96	1.09	1.24	1.23		
2,3,4,7,8-PeCDF	0.980	0.172	17.6 %	0.77	0.85	0.98	1.14	1.16		
Total F2 PeCDF	1.030	0.165	16.1 %	0.82	0.91	1.04	1.19	1.19		
Total F1 PeCDF	1.030	0.165	16.1 %	0.82	0.91	1.04	1.19	1.19		
13C-1,2,3,7,8-PeCDD	0.646	0.051	7.89 %	0.70	0.69	0.66	0.59	0.59		
1,2,3,7,8-PeCDD	0.925	0.137	14.8 %	0.75	0.82	0.95	1.04	1.06		
Total PeCDD	0.925	0.137	14.8 %	0.75	0.82	0.95	1.04	1.06		
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-		
13C-1,2,3,4,7,8-HxCDF	0.986	0.051	5.22 %	1.02	1.00	1.04	0.97	0.91		
1,2,3,4,7,8-HxCDF	1.153	0.147	12.7 %	0.95	1.06	1.20	1.26	1.30		
1,2,3,6,7,8-HxCDF	1.243	0.165	13.3 %	0.99	1.17	1.31	1.36	1.39		
2,3,4,6,7,8-HxCDF	1.218	0.140	11.5 %	1.02	1.13	1.29	1.29	1.36		
1,2,3,7,8,9-HxCDF	1.185	0.124	10.5 %	1.03	1.09	1.25	1.24	1.33		
Total HxCDF	1.200	0.143	11.9 %	1.00	1.11	1.26	1.29	1.34		
13C-1,2,3,6,7,8-HxCDD	0.768	0.045	5.92 %	0.76	0.80	0.82	0.70	0.76		
1,2,3,4,7,8-HxCDD	1.029	0.150	14.6 %	0.86	0.89	1.06	1.23	1.10		

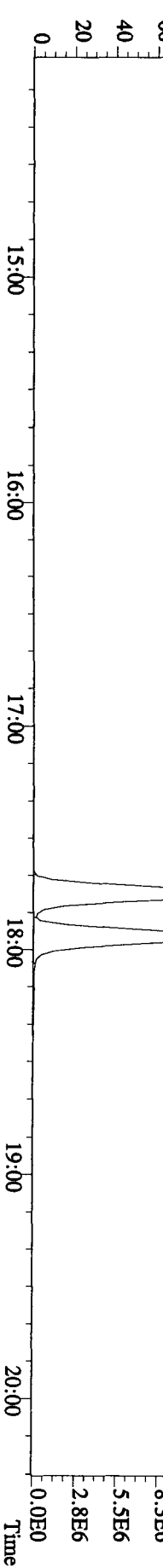
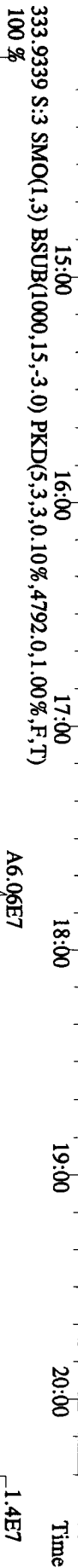
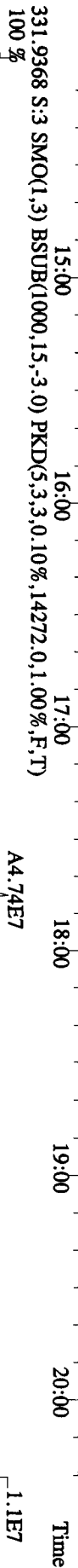
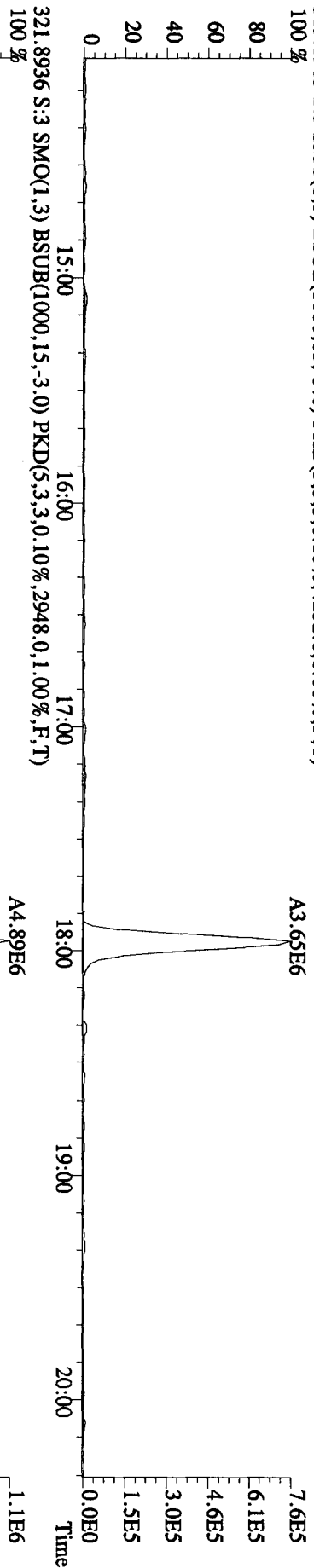


1,2,3,6,7,8-HxCDD	1.107	0.138	12.5 %	0.96	0.97	1.13	1.26	1.21
1,2,3,7,8,9-HxCDD	1.242	0.157	12.6 %	1.07	1.10	1.27	1.45	1.32
Total HxCDD	1.126	0.148	13.1 %	0.96	0.99	1.15	1.31	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.981	0.075	7.67 %	1.02	1.03	1.06	0.92	0.89
1,2,3,4,6,7,8-HpCDF	1.350	0.158	11.7 %	1.11	1.27	1.42	1.49	1.46
1,2,3,4,7,8,9-HpCDF	1.186	0.160	13.5 %	0.94	1.12	1.25	1.31	1.31
Total HpCDF	1.268	0.159	12.5 %	1.02	1.20	1.33	1.40	1.39
13C-1,2,3,4,6,7,8-HpCDD	0.806	0.065	8.01 %	0.84	0.84	0.87	0.74	0.74
1,2,3,4,6,7,8-HpCDD	1.026	0.139	13.6 %	0.83	0.93	1.07	1.16	1.14
Total HpCDD	1.026	0.139	13.6 %	0.83	0.93	1.07	1.16	1.14
13C-OCDD	0.615	0.037	5.96 %	0.60	0.63	0.67	0.58	0.59
OCDF	1.445	0.261	18.1 %	1.05	1.31	1.55	1.67	1.65
OCDD	1.090	0.145	13.3 %	0.88	1.00	1.14	1.23	1.20

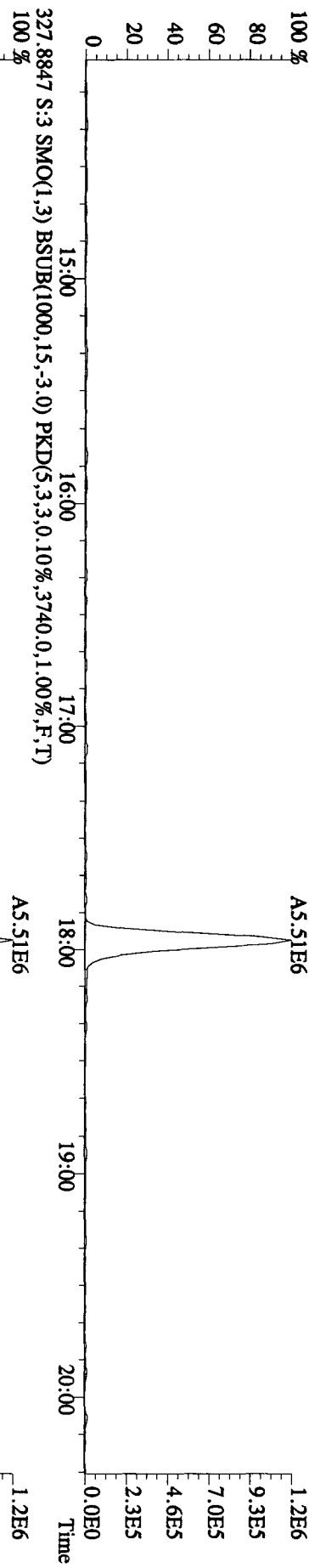
File:25AU10A1D5 #1-372 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINRES  
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3028.0,1.00%,F,T) 100% A5.99E6



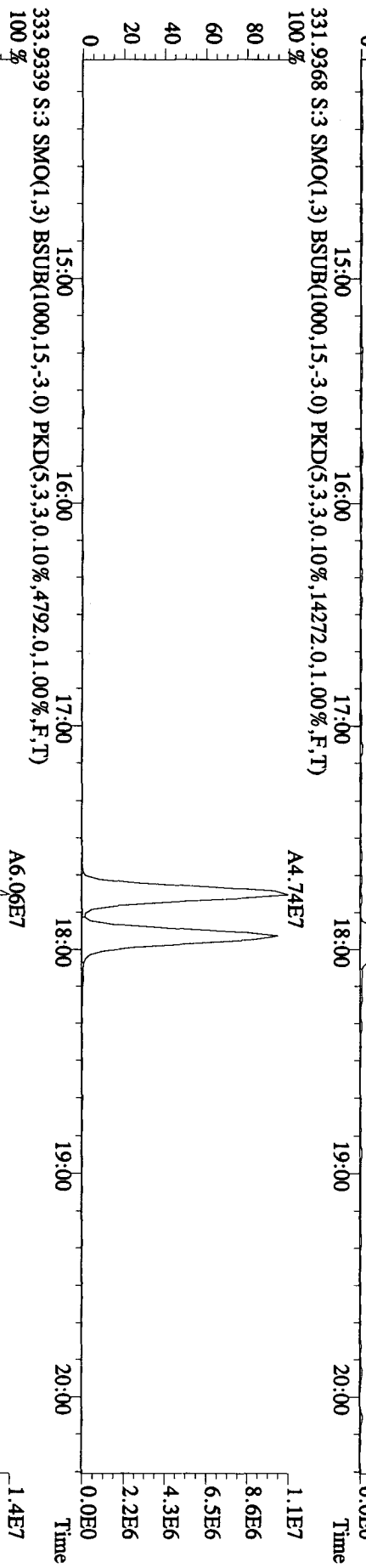
File:25AU10A1D5 #1-372 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINRES  
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4232.0,1.00%,F,T)  
 100 %



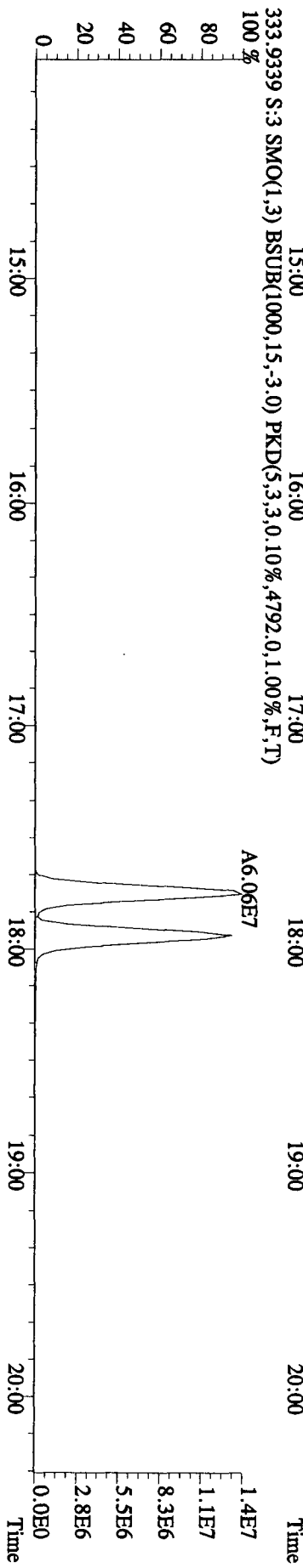
File:25AU10A1D5 #1-372 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINRES  
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3740.0,1.00%,F,T)  
 100 %



331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14272.0,1.00%,F,T)  
 100 %



333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4792.0,1.00%,F,T)  
 100 %



File:25AU10A1D5 #1-414 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE

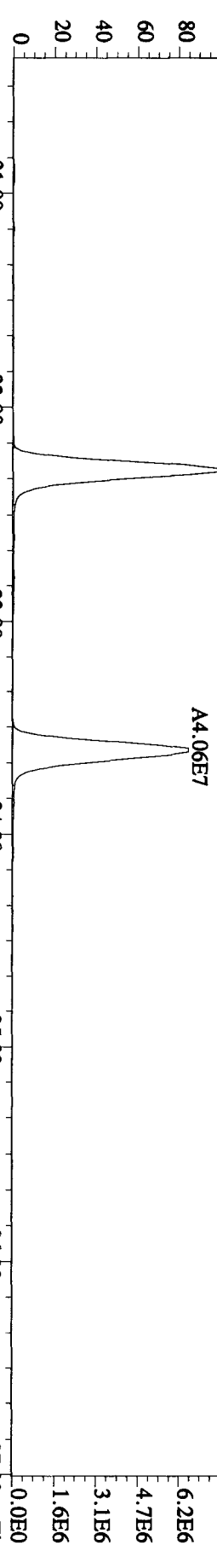
Sample#3 Text:ST0825D :CS3 10DXN417

Exp:DIOXINRES

339.8597 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4356.0,1.00%,F,T)

100 %

A4.44E7

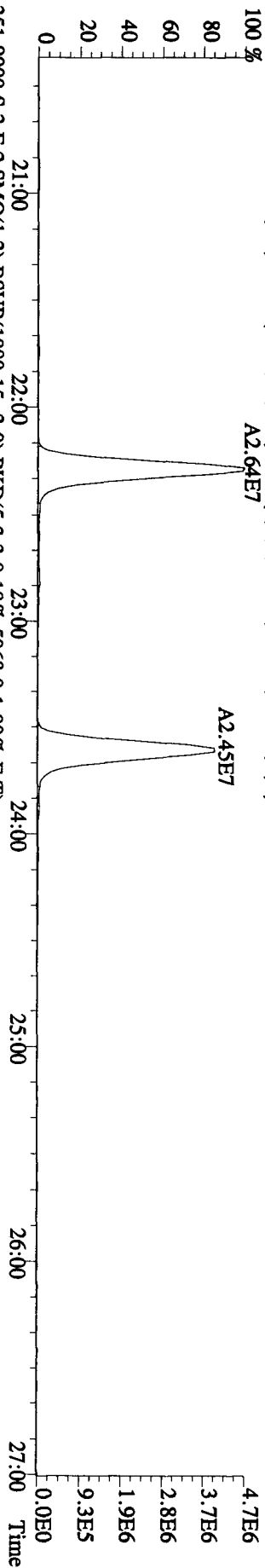


341.8567 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4736.0,1.00%,F,T)

100 %

A2.64E7

A2.45E7

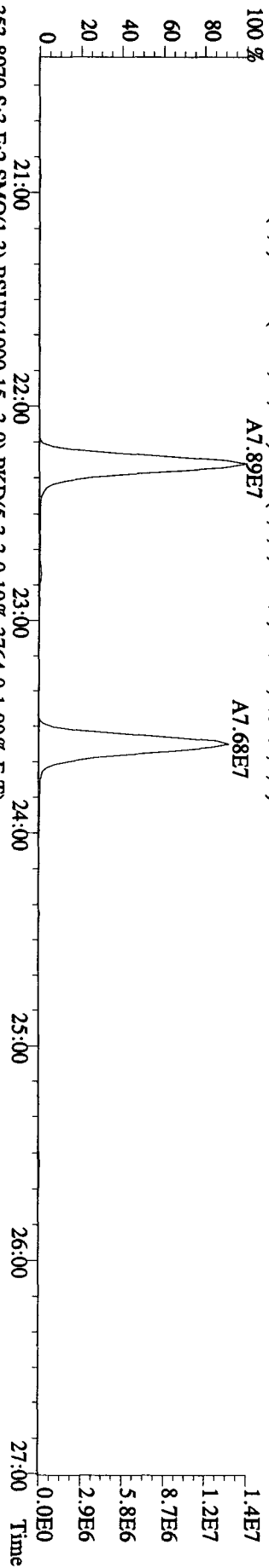


351.9000 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5068.0,1.00%,F,T)

100 %

A7.89E7

A7.68E7

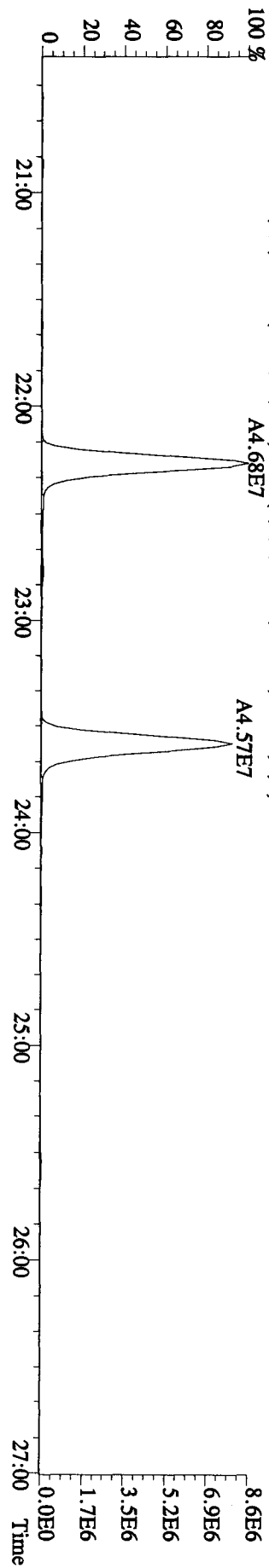


353.8970 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3764.0,1.00%,F,T)

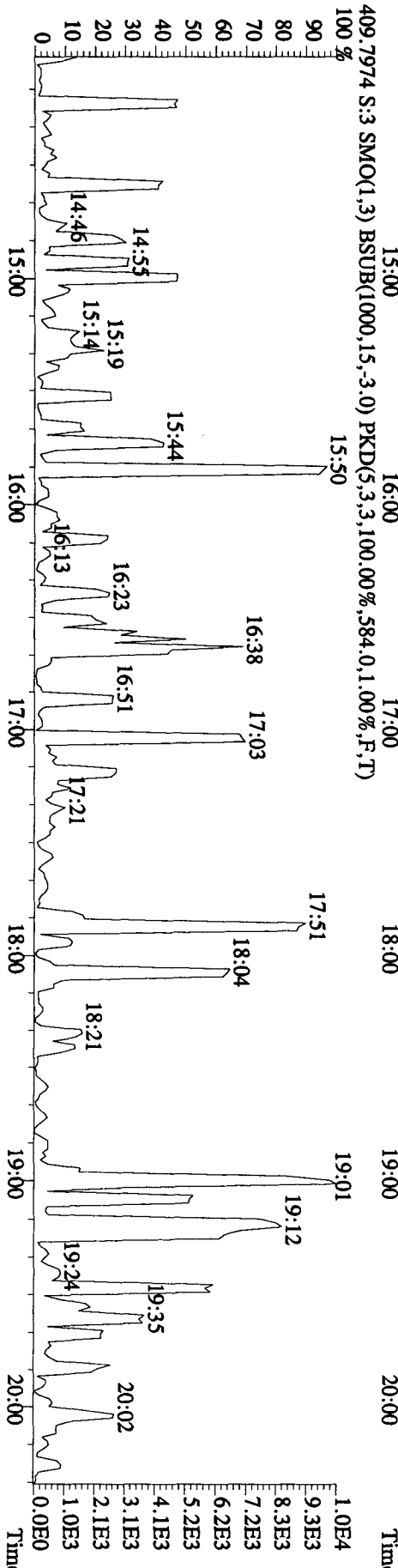
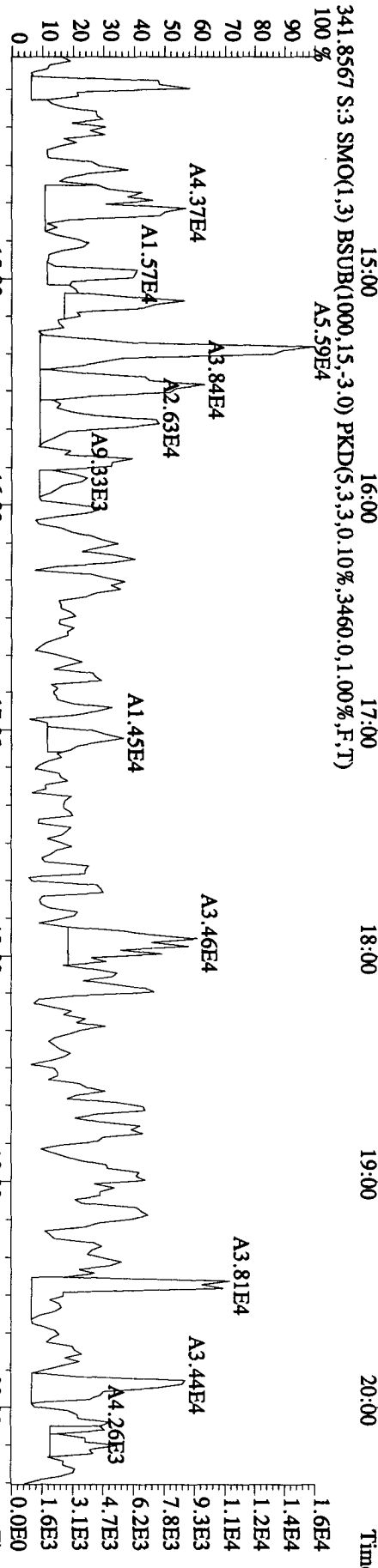
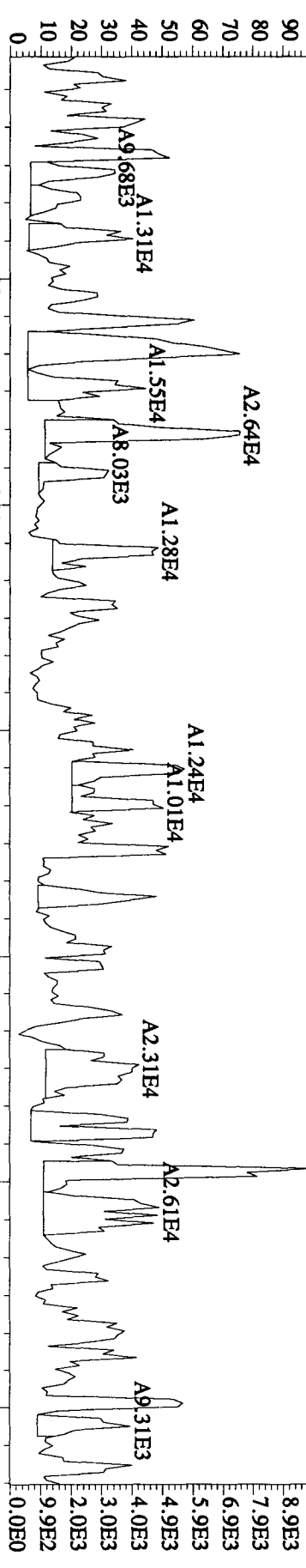
100 %

A4.68E7

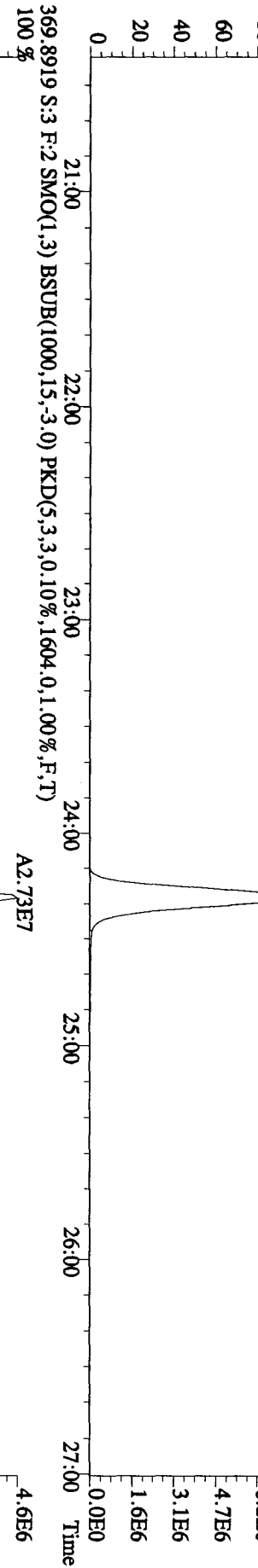
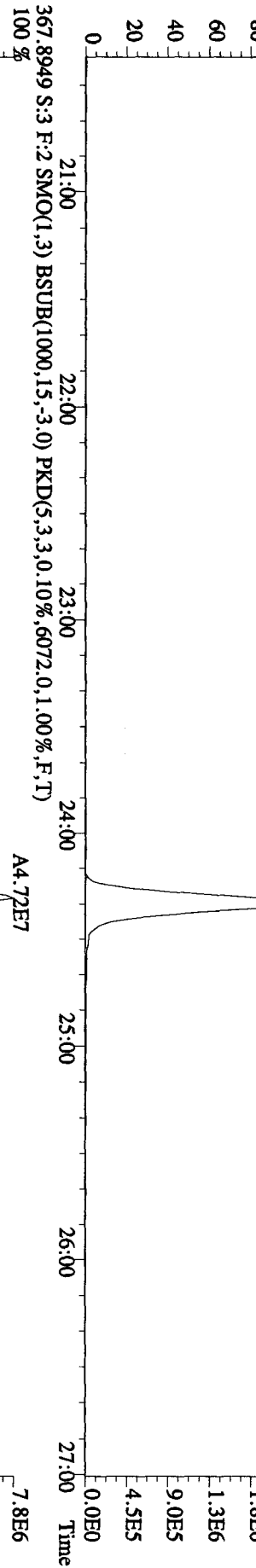
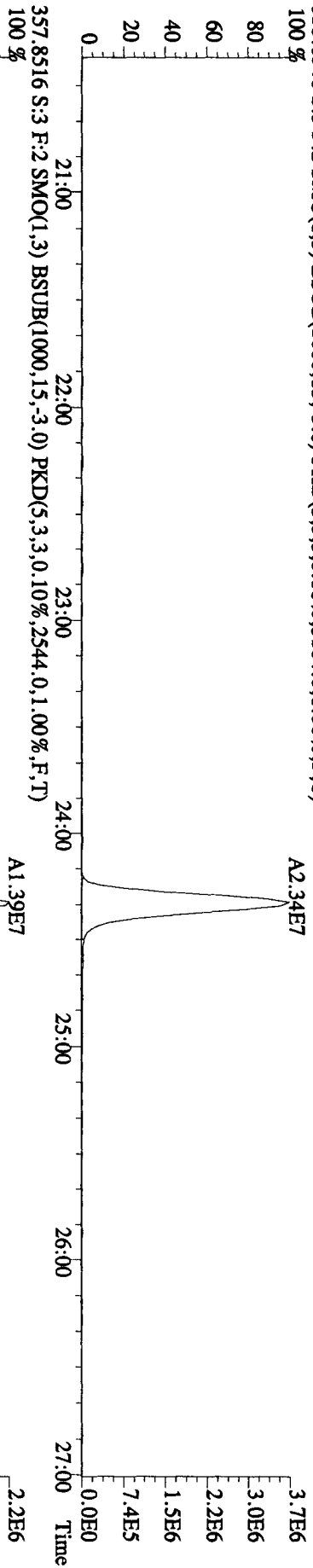
A4.57E7



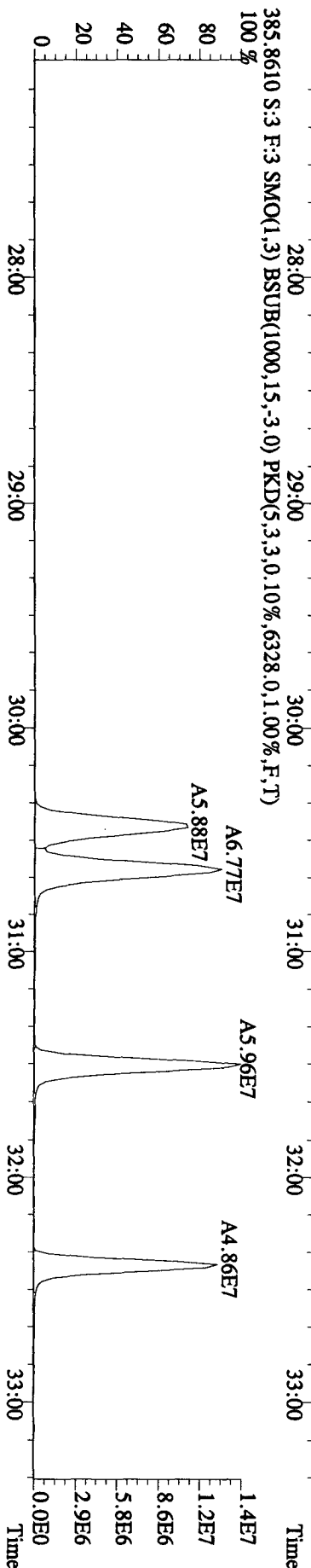
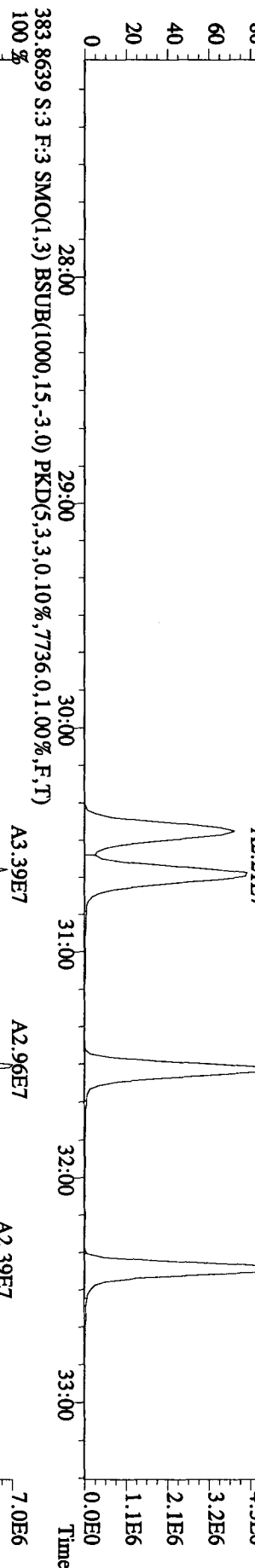
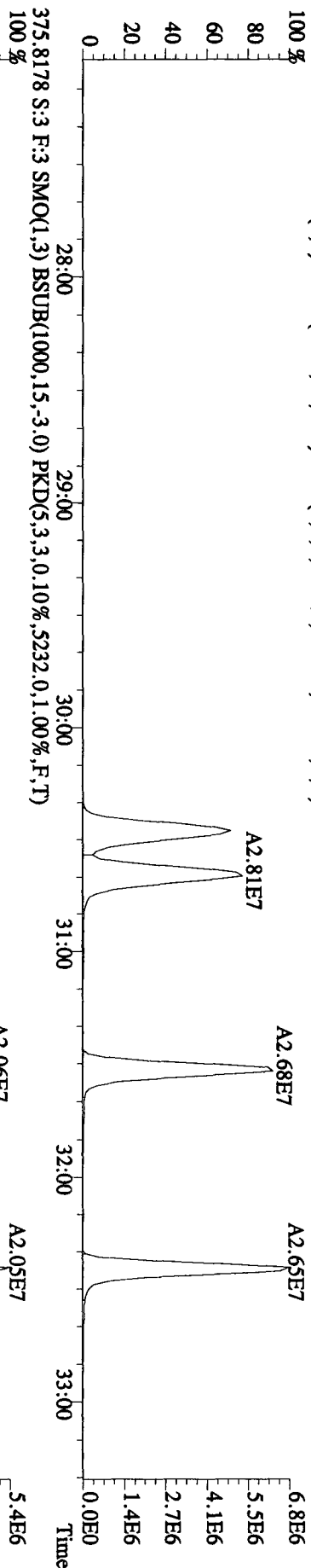
File:25AU10A1D5 #1-372 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:ST0825D :C33 10DXN417 Exp.:DIOXINES  
 339.8597 S:3 SMO(1.3) BSUB(1000.15,-3.0) PKD(5.3,3.0,10%,1920.0,1.00%,F,T)



File:25AU10A1D5 #1-414 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINRES  
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5104,0,1.00%,F,T)  
 100%

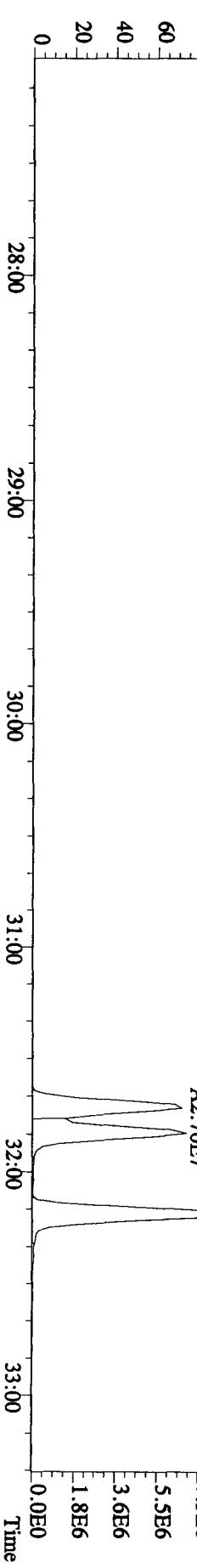
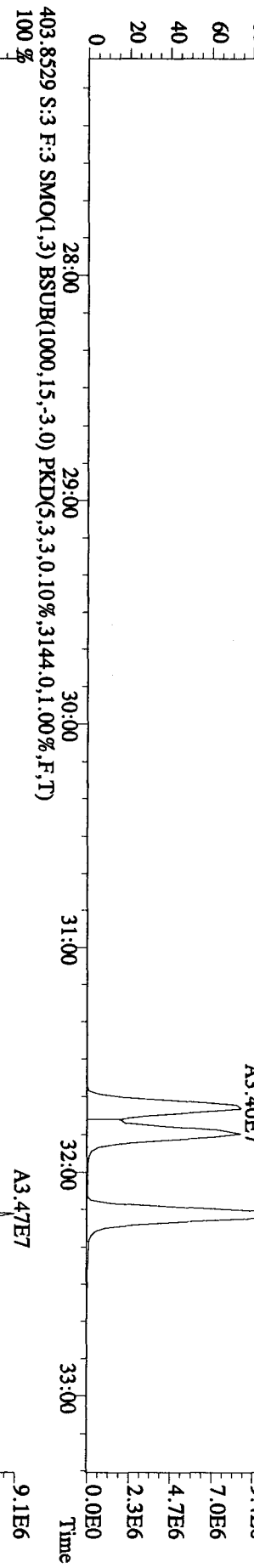
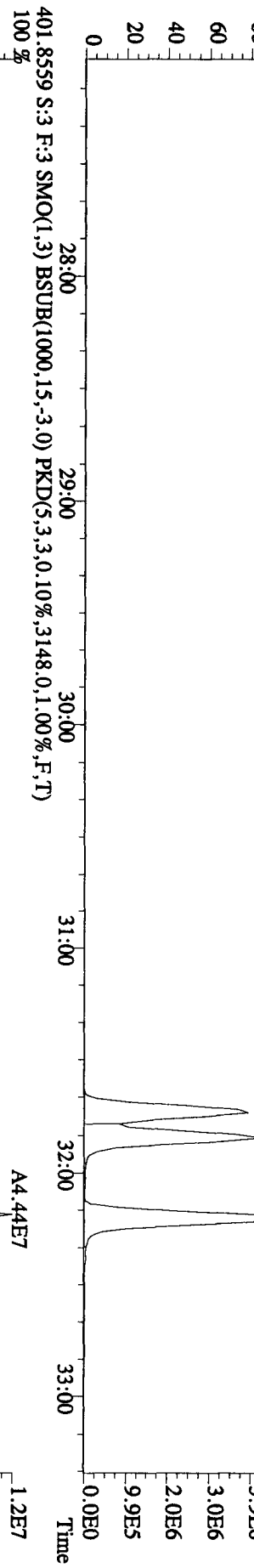
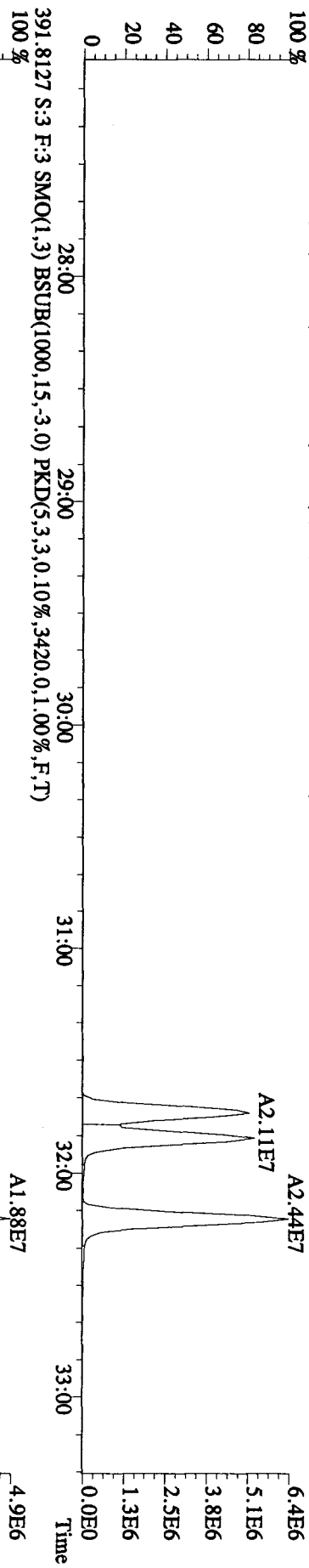


File:25AU10A1D5 #1-406 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINRES  
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4072,0,1,00%,F,T)

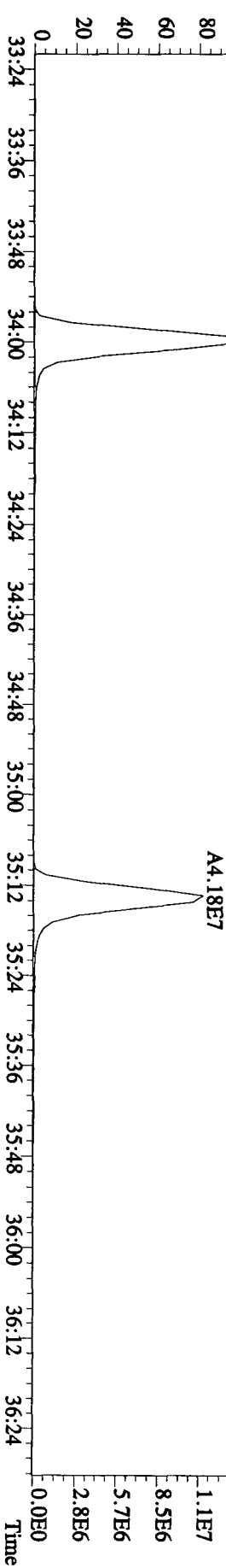
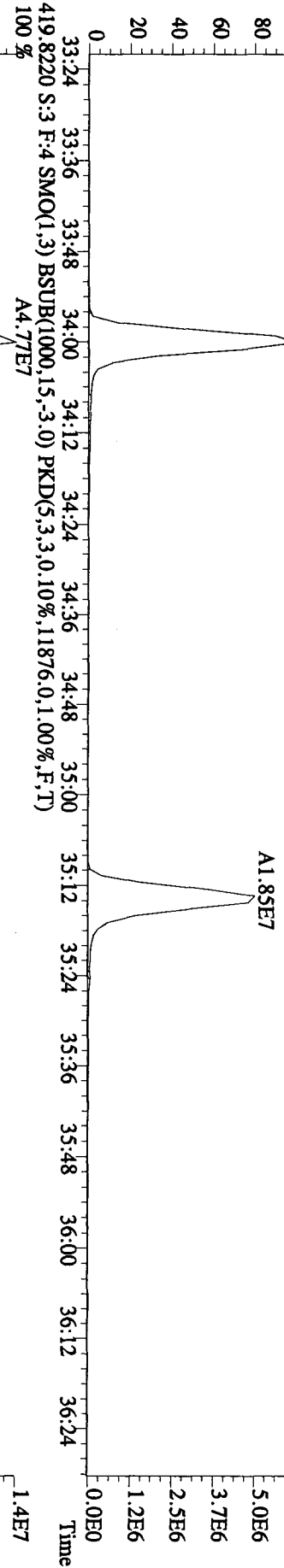
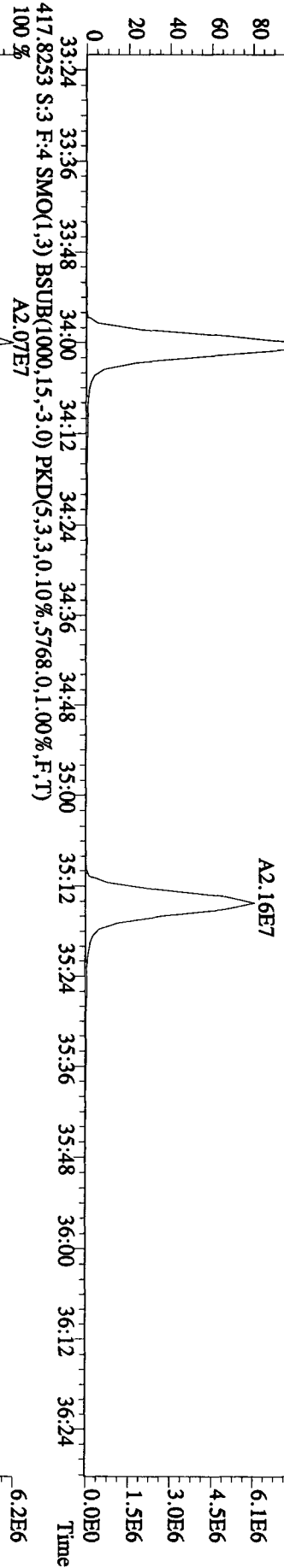
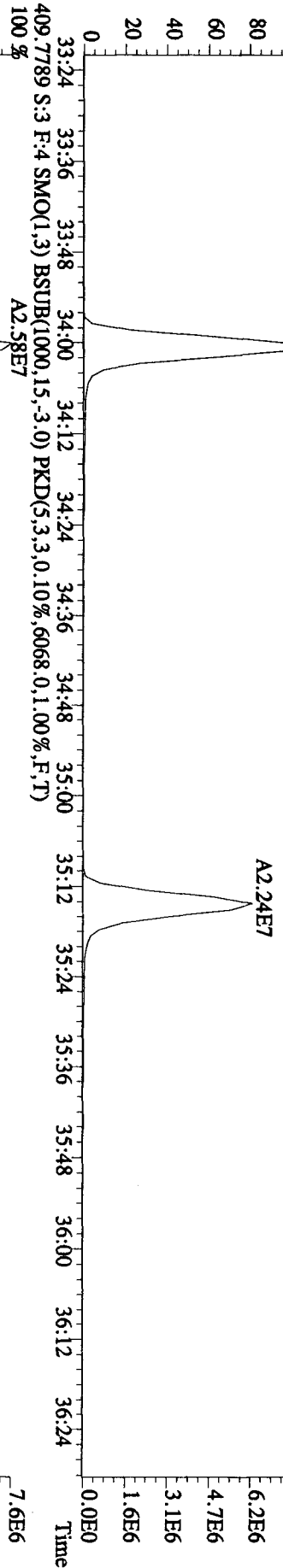




File:25AU10A1D5 #1-406 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINRES  
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2808,0,1,00%,F,T)  
 100 %

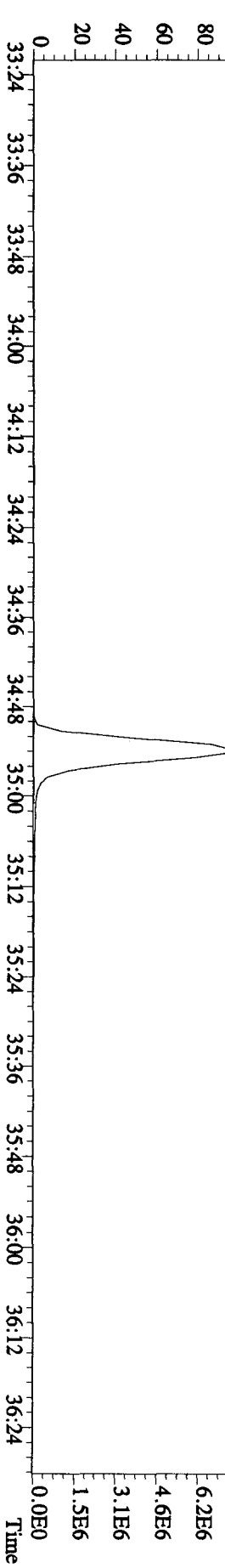
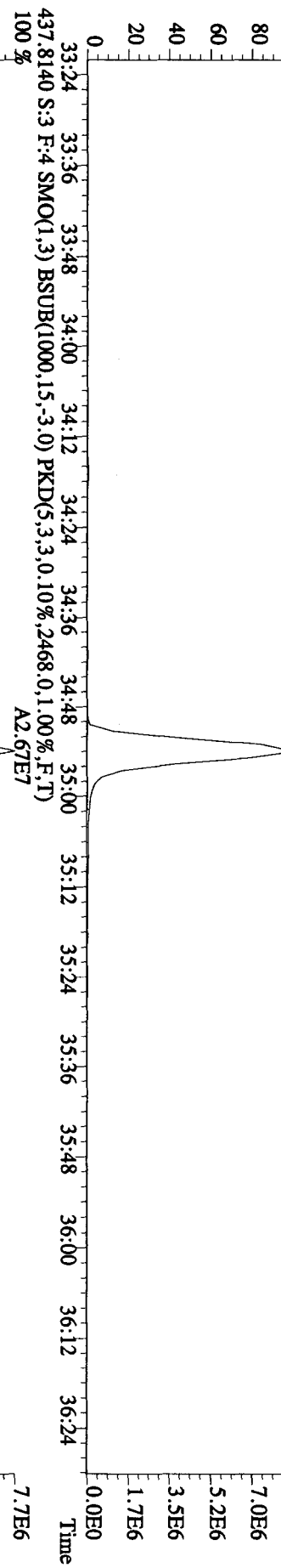
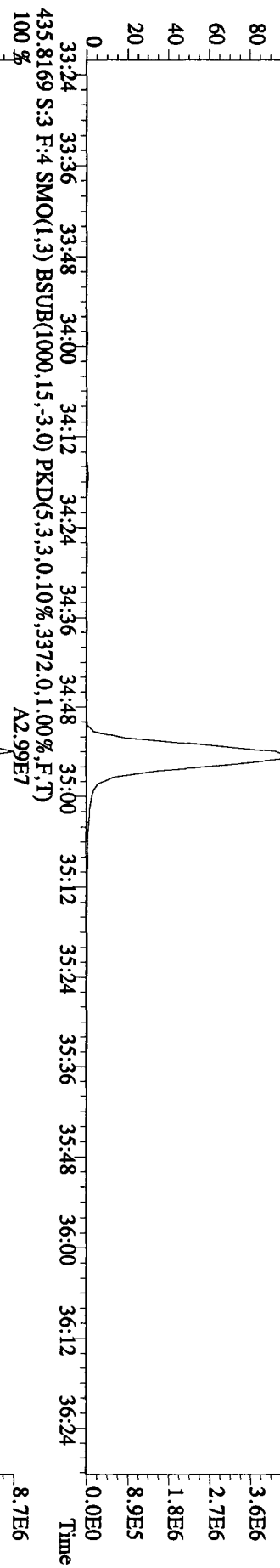
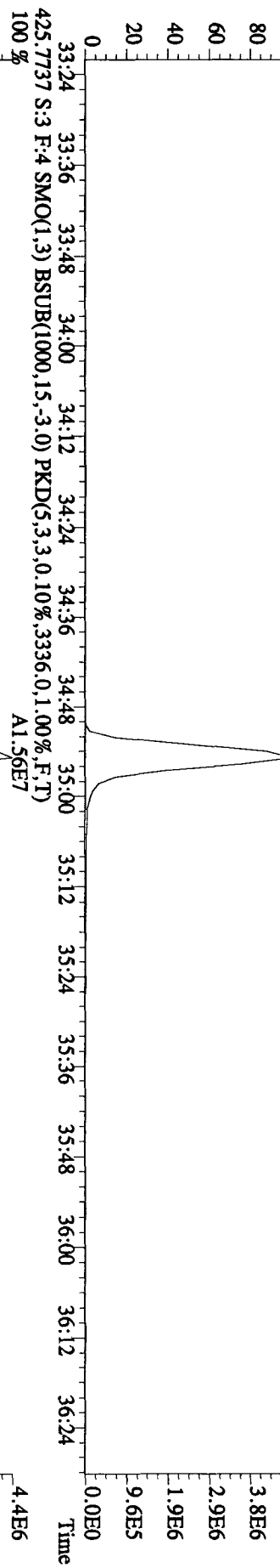


Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINRES  
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6200,0.1,00%,F,T)  
100 %



File:25AU10A1D5 #1-214 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE

Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINRES  
423.7766 S:3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3904,0,1,00%,F,T)  
100 % A1.65E7



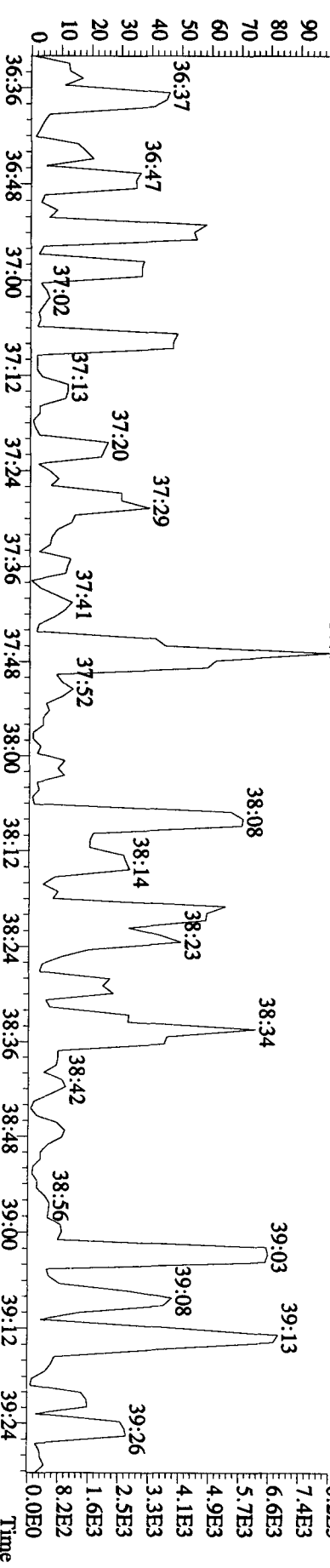
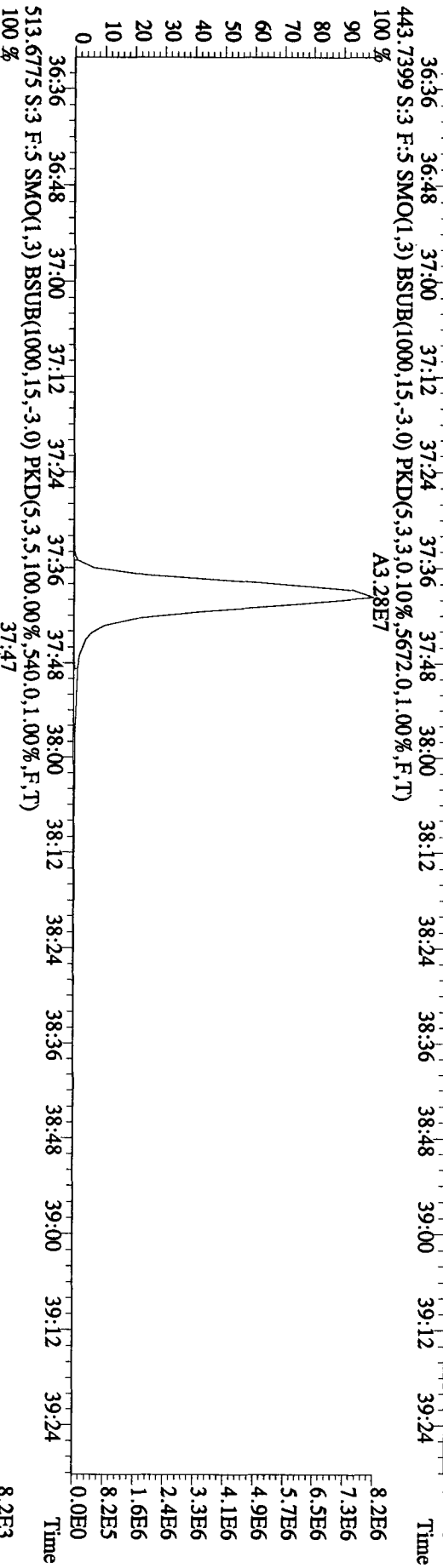
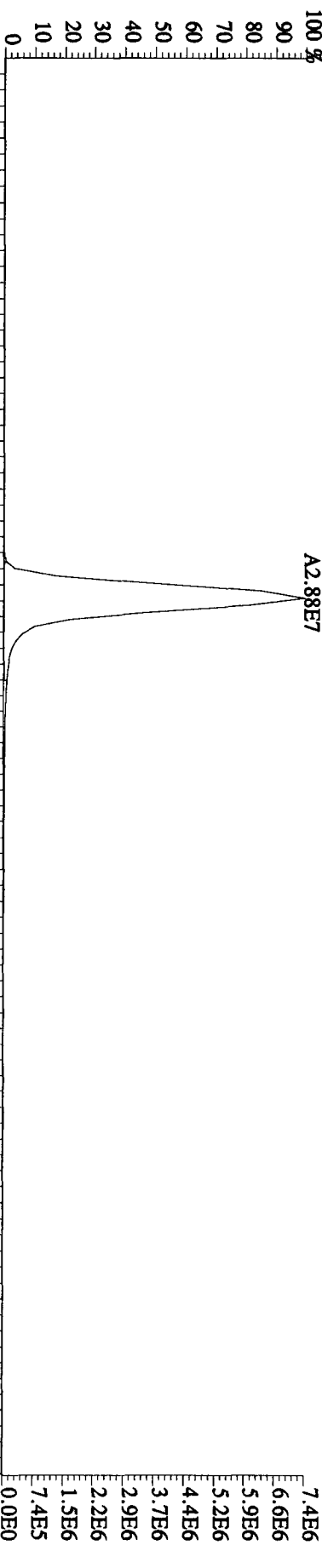
File:25AU10A1D5 #1-196 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE

Sample#3 Text:ST0825D :CS3 10DXN417

Exp:DIOXINRES

441.7428 S:3 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2836,0.1,00%,F,T)

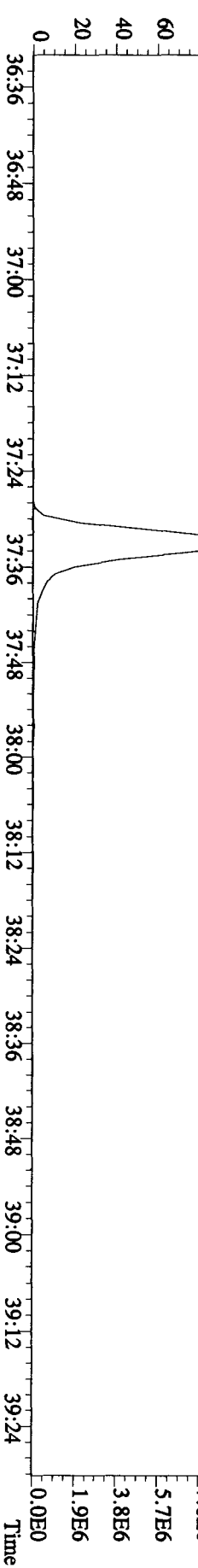
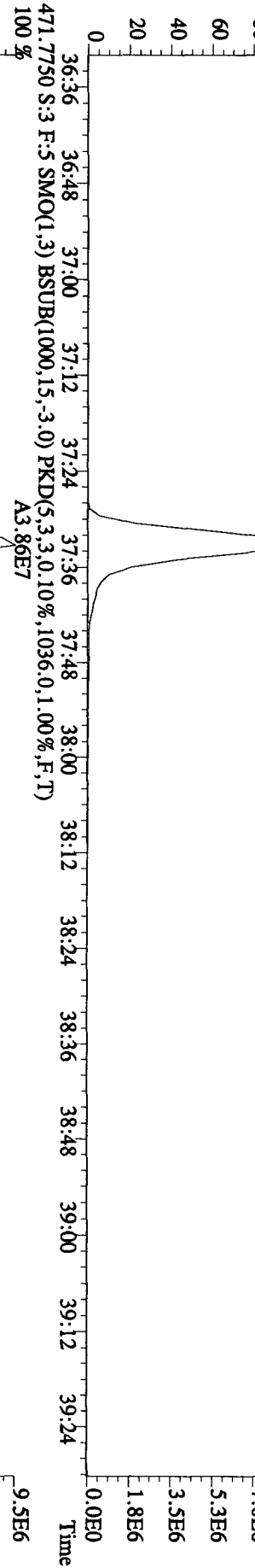
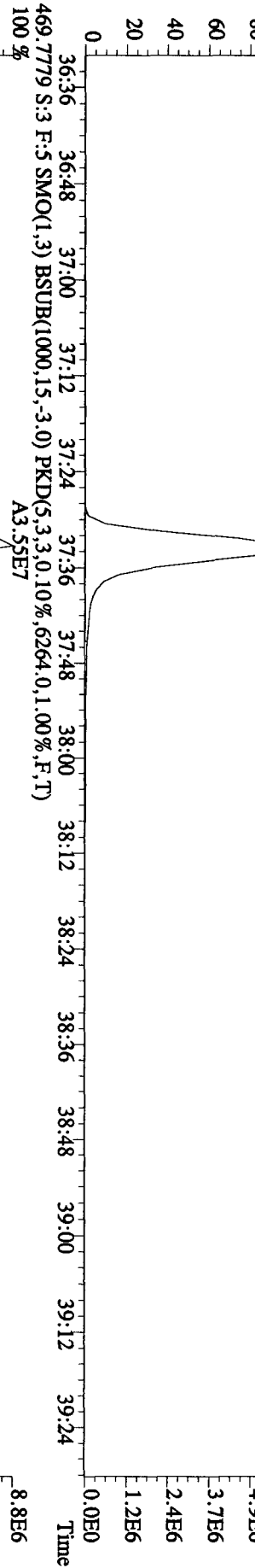
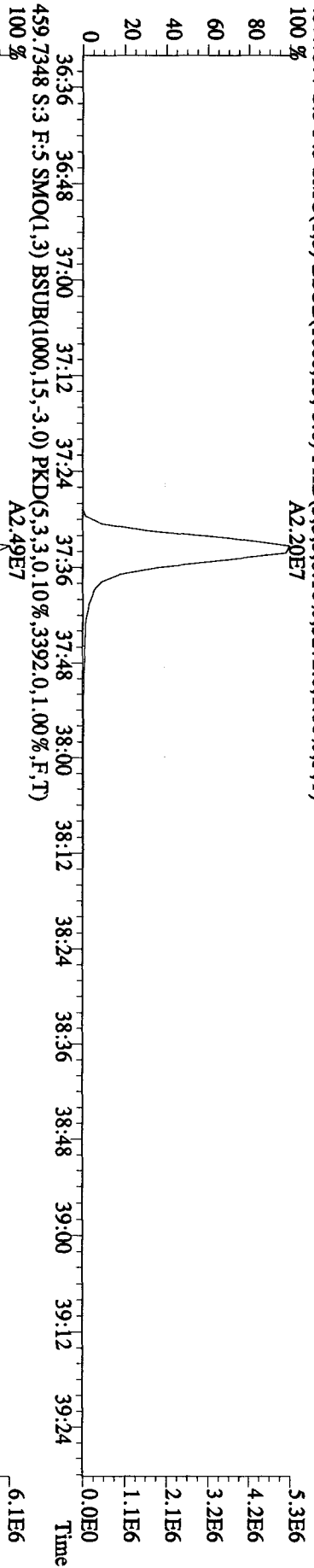
100% A2.88E7



File:25AUI0AID5 #1-196 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE

Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINES

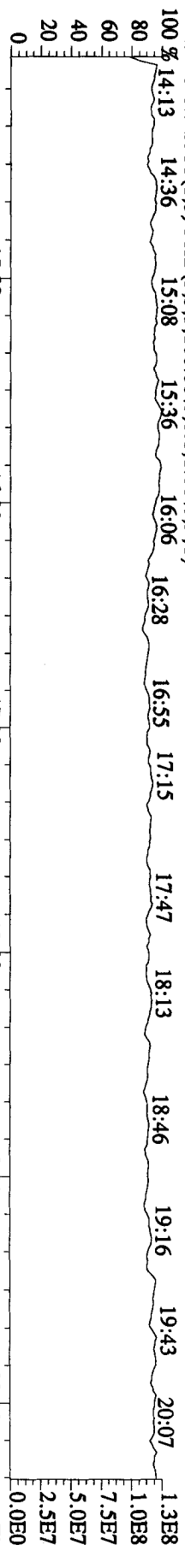
457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3272.0,1.00%,F,T) 100 % A2.20E7



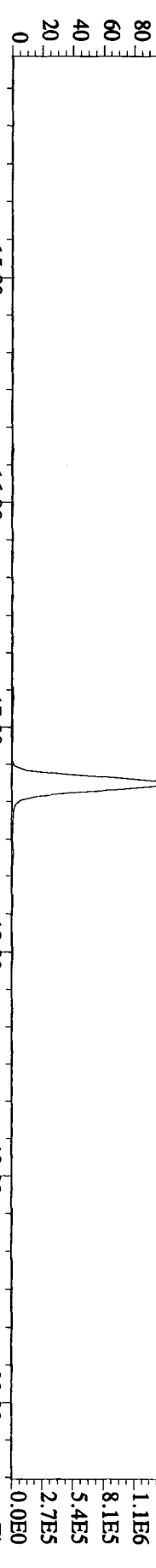
File:25AU10A1D5 #1-372 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE

Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINRES

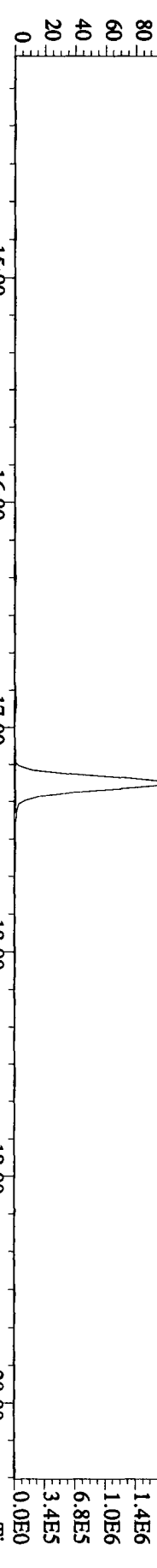
292.9825 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



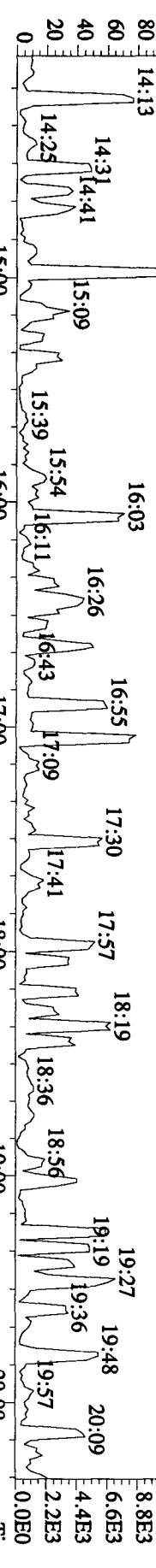
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3028.0,1.00%,F,T)



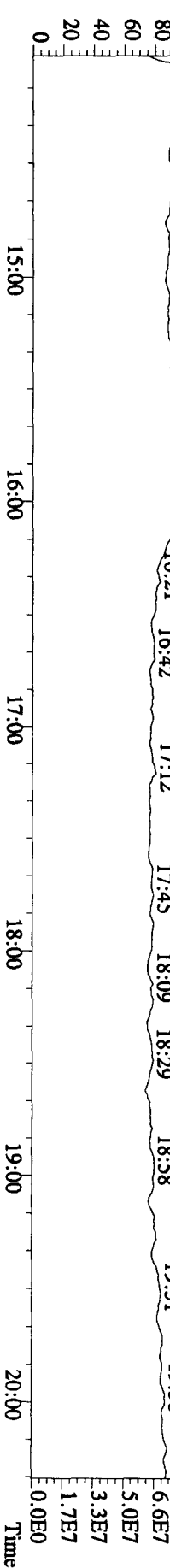
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2956.0,1.00%,F,T)

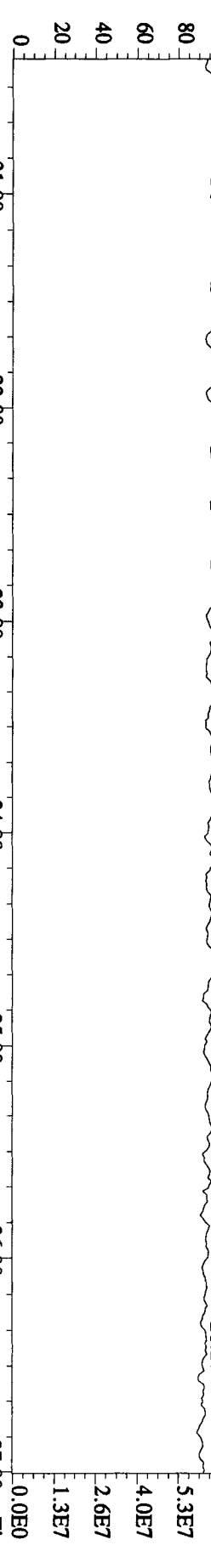


375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1152.0,1.00%,F,T)

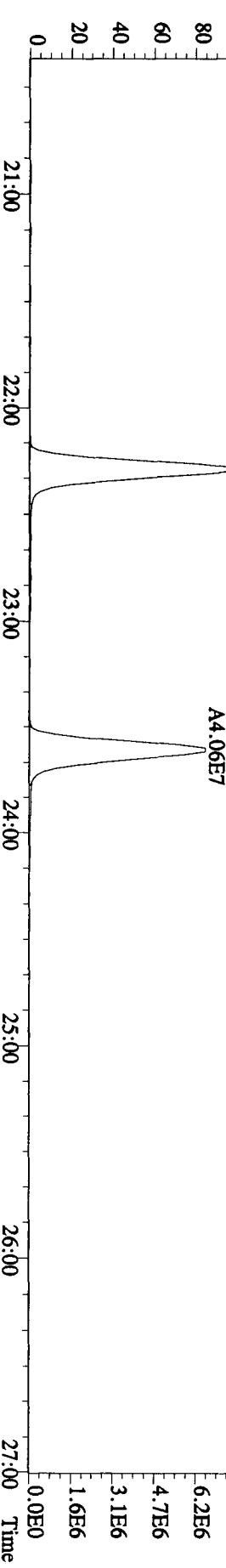


330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

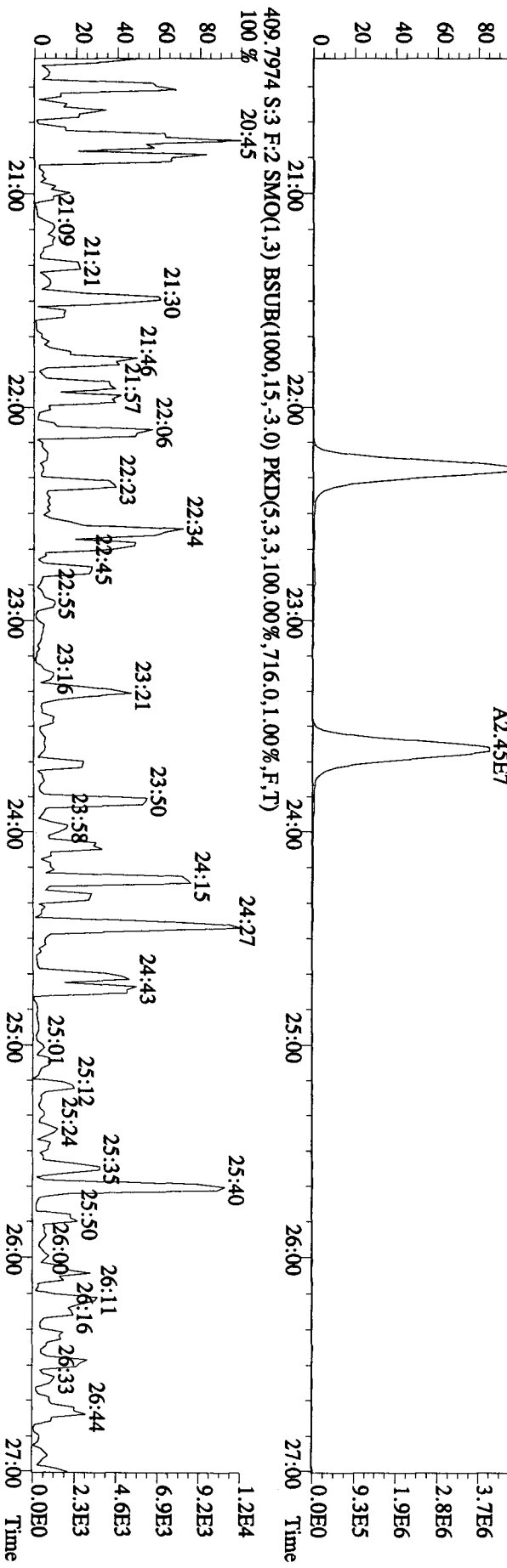




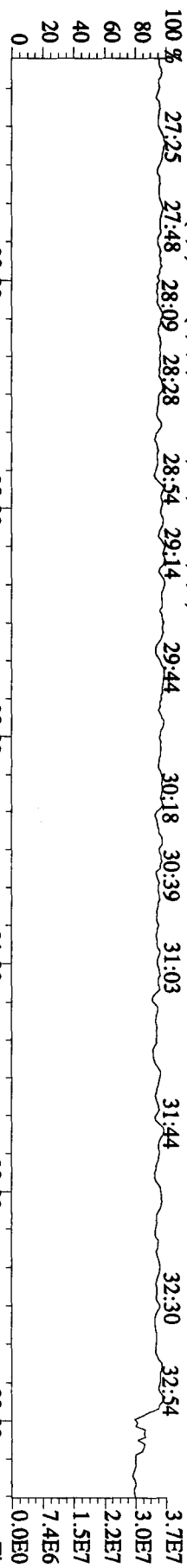
339.8597 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,4356,0.1,00%,F,T) A4.44E7 A4.06E7



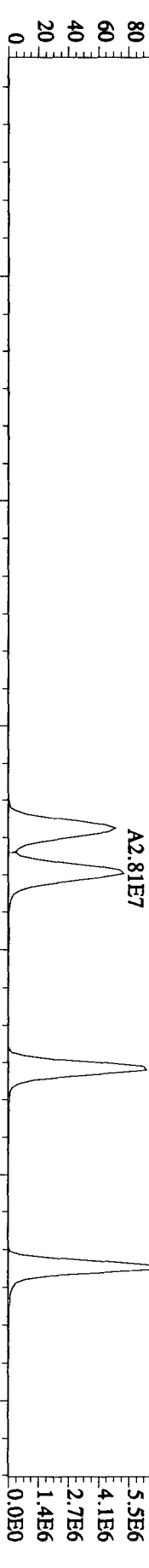
341.8567 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,4736,0.1,00%,F,T) A2.64E7 A2.45E7



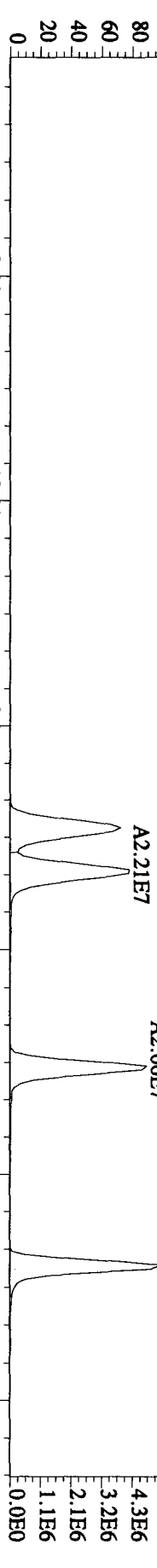
409.7974 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,716,0.1,00%,F,T) 1.2E4 9.2E3 6.9E3 4.6E3 2.3E3 0.0E0



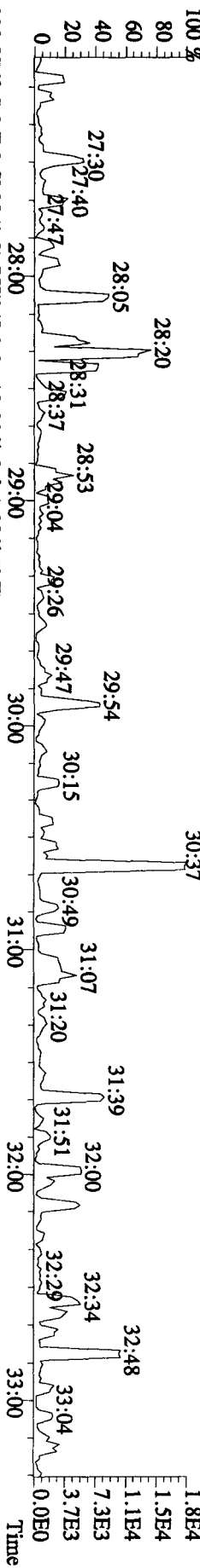
373.8208 S:3 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,4072.0,1.00%,F,T)



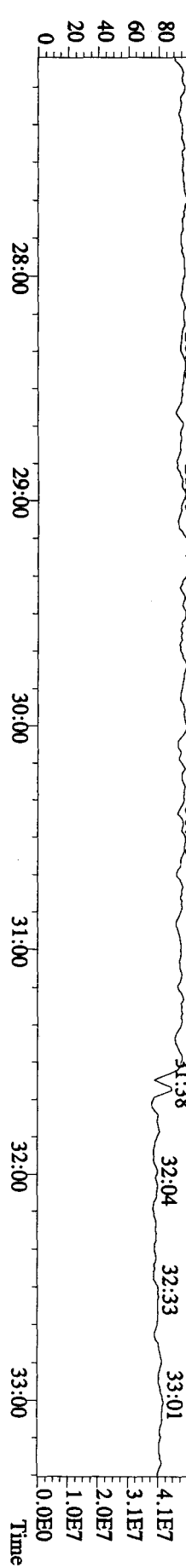
375.8178 S:3 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,5232.0,1.00%,F,T)



445.7555 S:3 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,1068.0,1.00%,F,T)

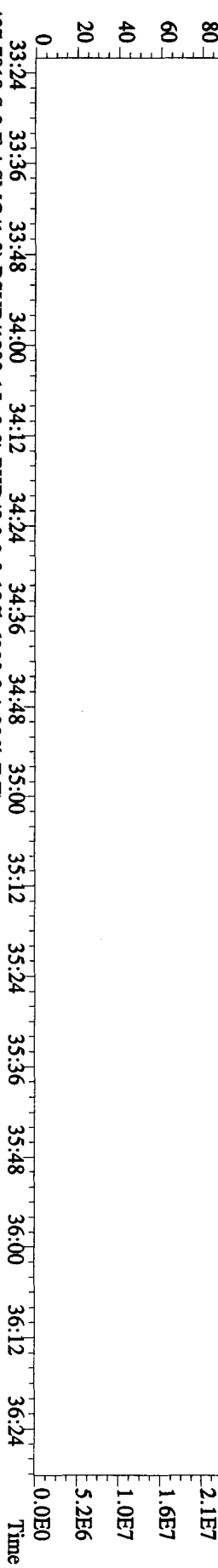


380.9760 S:3 F:3 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

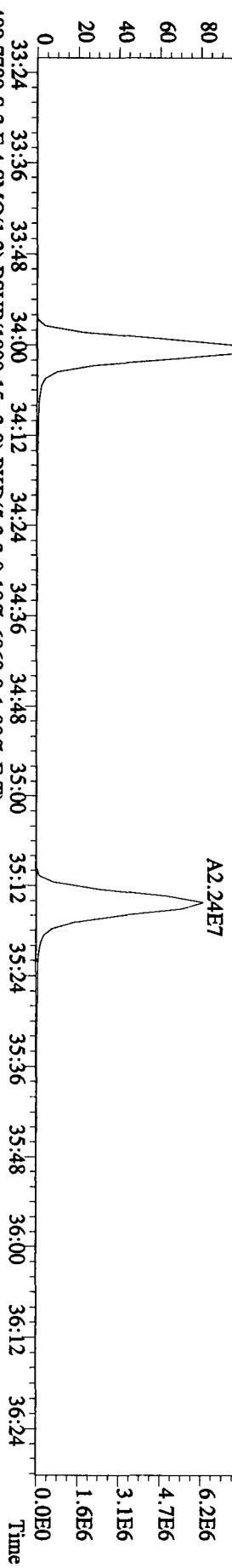




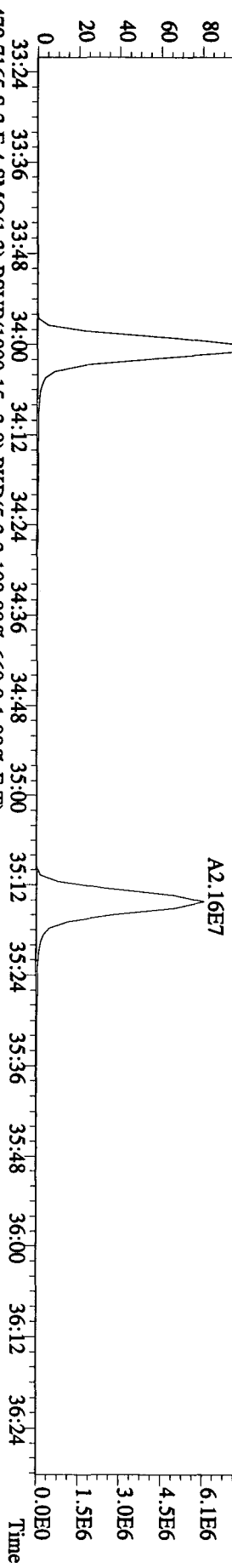
430.9728 S:3 F:4 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T) 100% 33:31 33:47 34:02 34:20 34:37 34:56 35:05 35:21 35:37 35:54 36:07 36:23



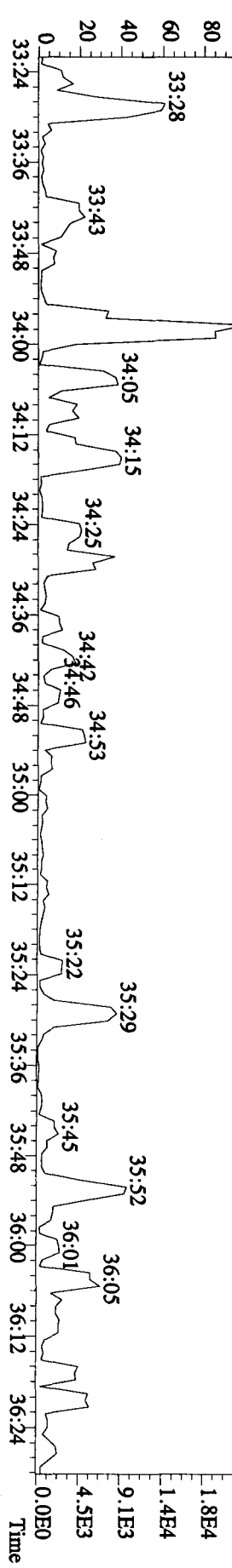
407.7818 S:3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6200,0,1,00%,F,T) 100% 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24



409.7789 S:3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6068,0,1,00%,F,T) 100% 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24



479.7165 S:3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,660,0,1,00%,F,T) 100% 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24



File:25AU10A1D5 #1-196 Acq:25-AUG-2010 23:10:11 GC EI+ Voltage SIR 70SE

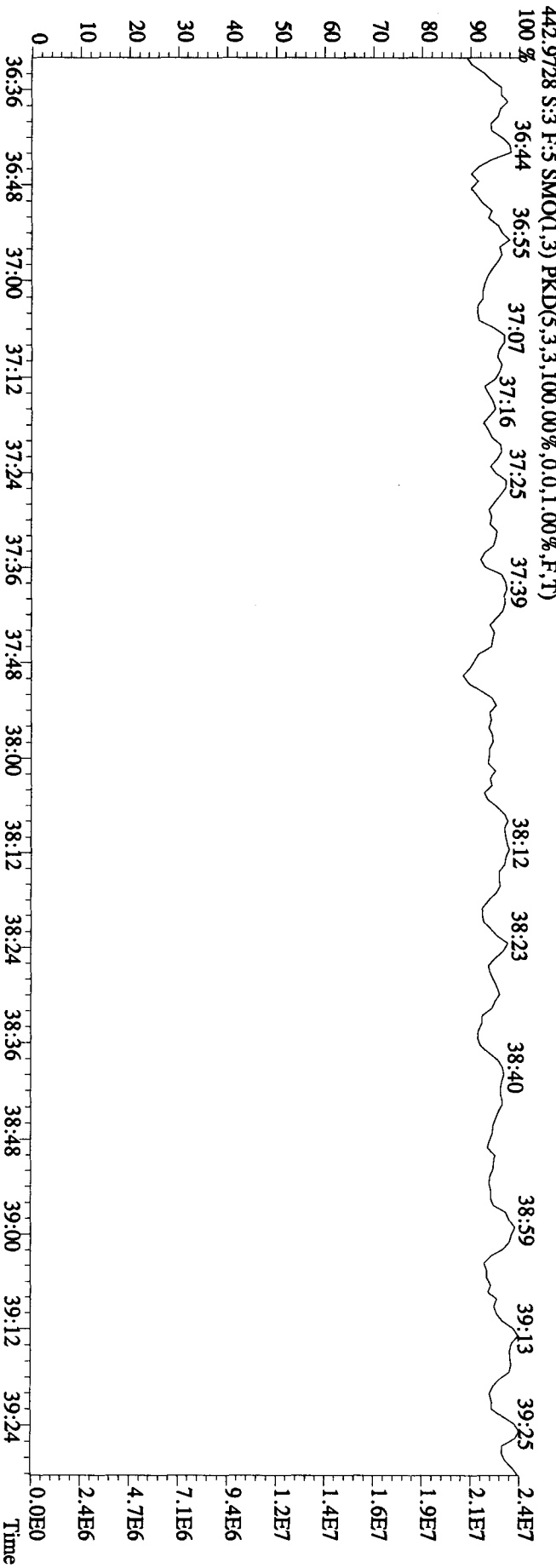
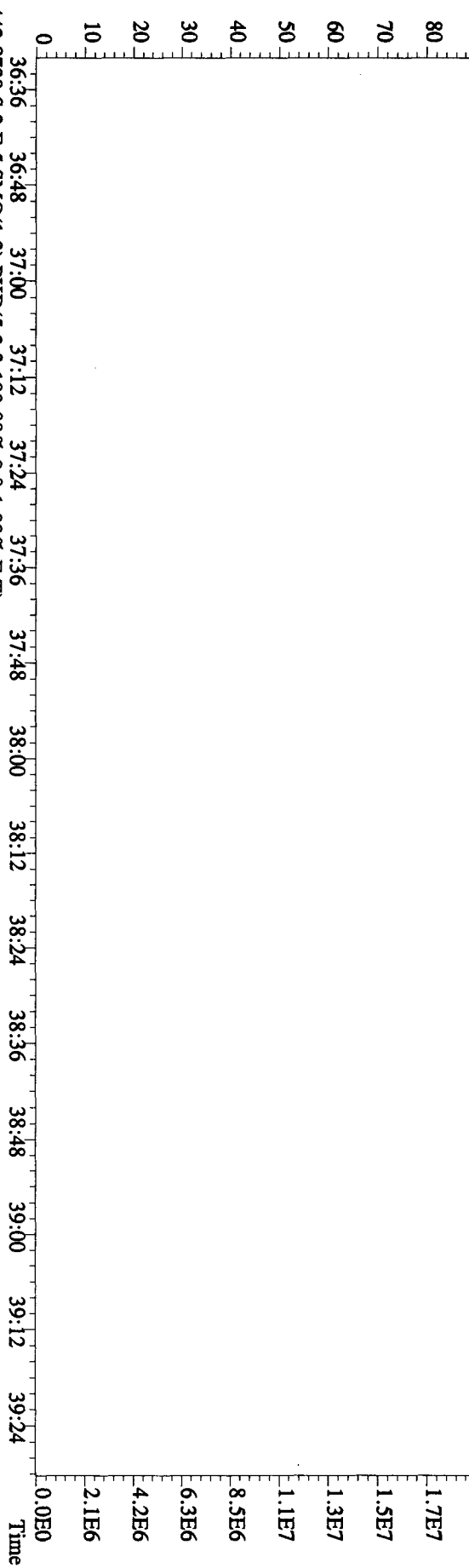
Sample#3 Text:ST0825D :CS3 10DXN417 Exp:DIOXINRES

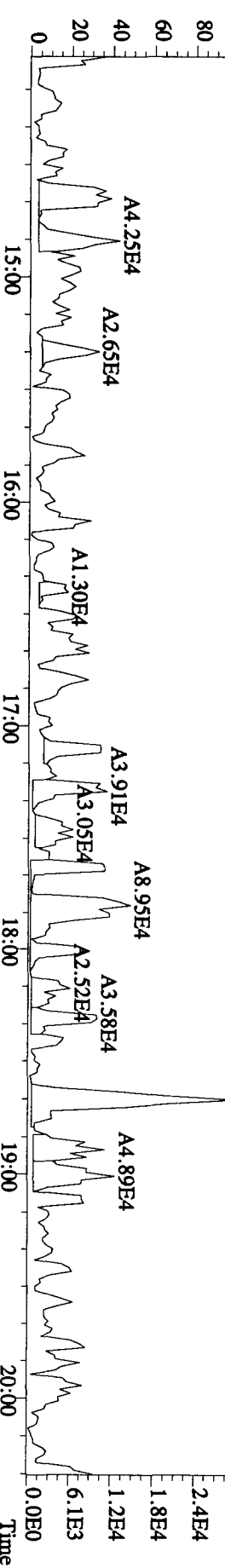
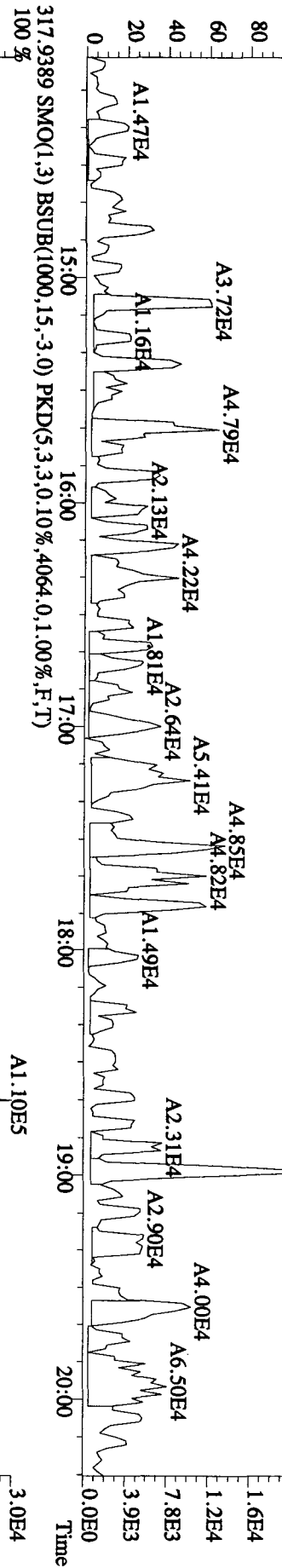
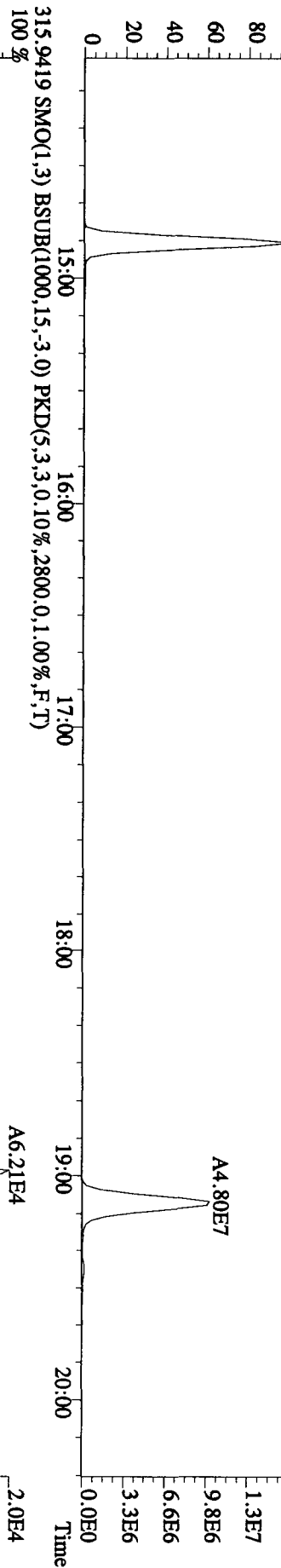
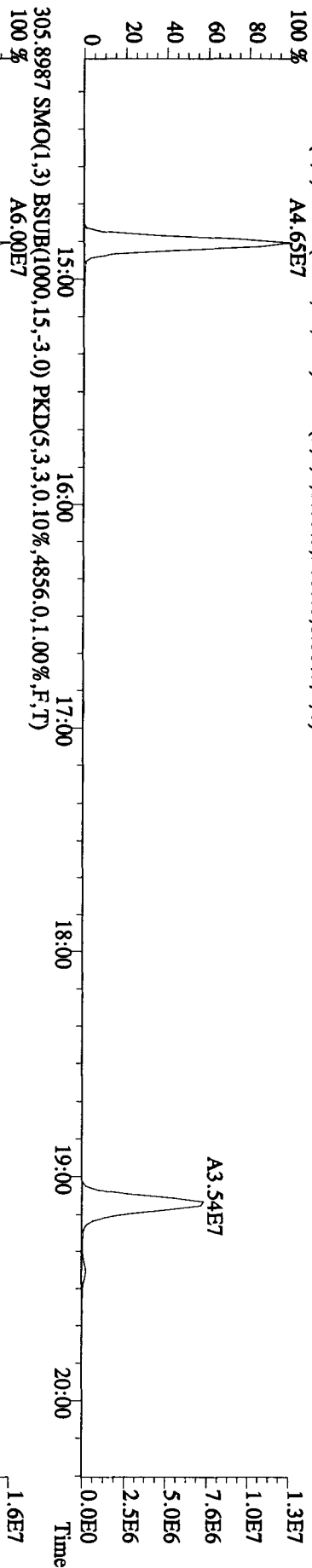
454.9728 S:3 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

100 % 36:38 36:54 37:08 37:28 37:41 37:52

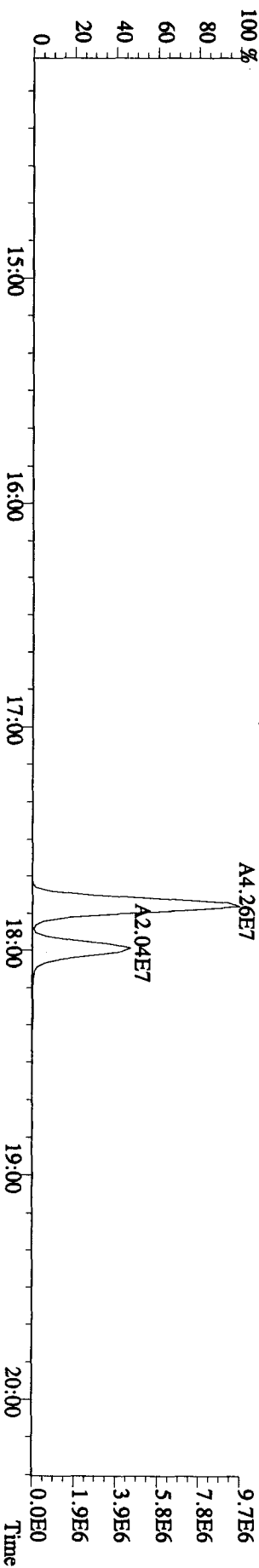
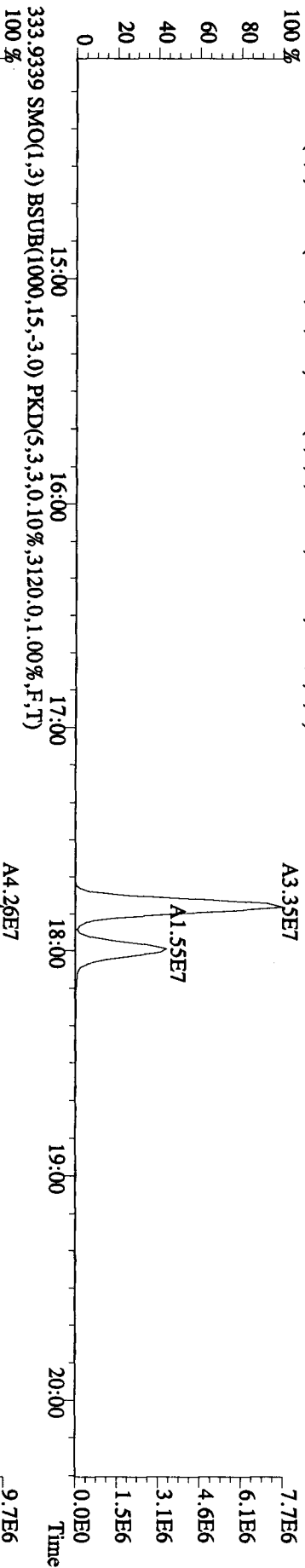
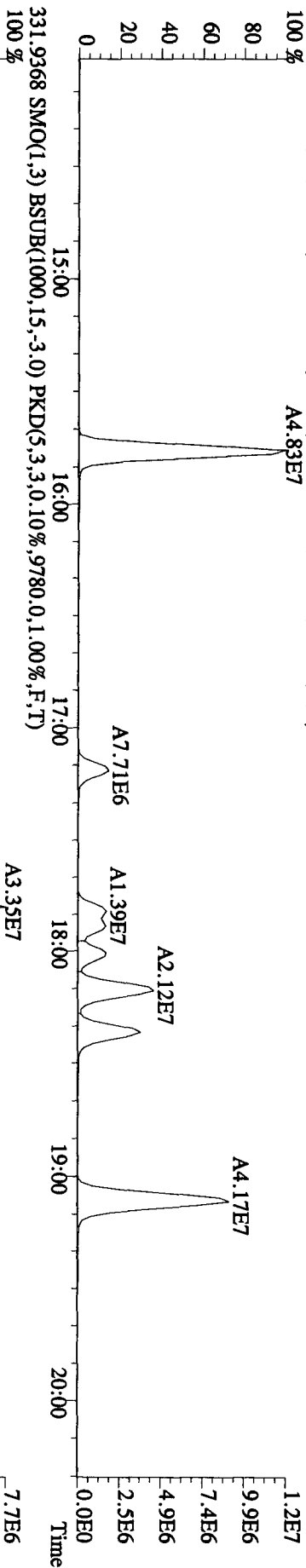
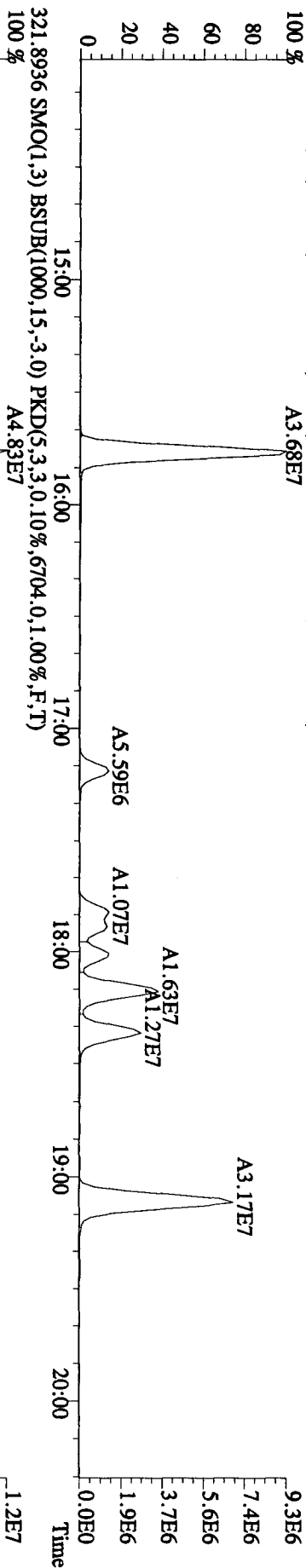
38:14 38:28 38:47 39:03 39:12

2.1E7 1.9E7 1.7E7 1.5E7 1.3E7 1.1E7 8.5E6 6.3E6 4.2E6 2.1E6





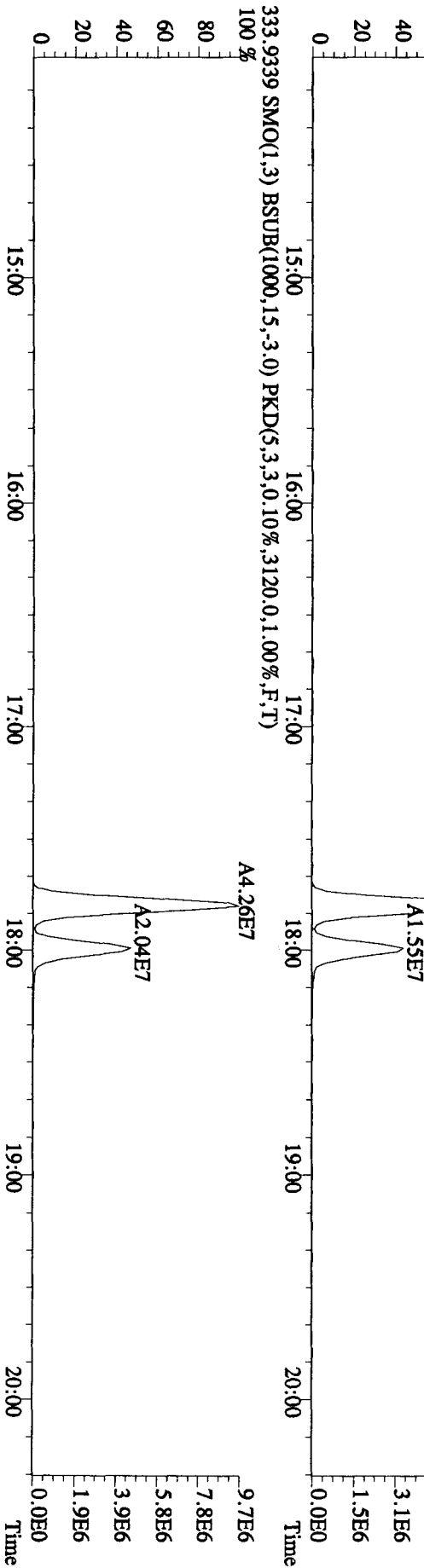
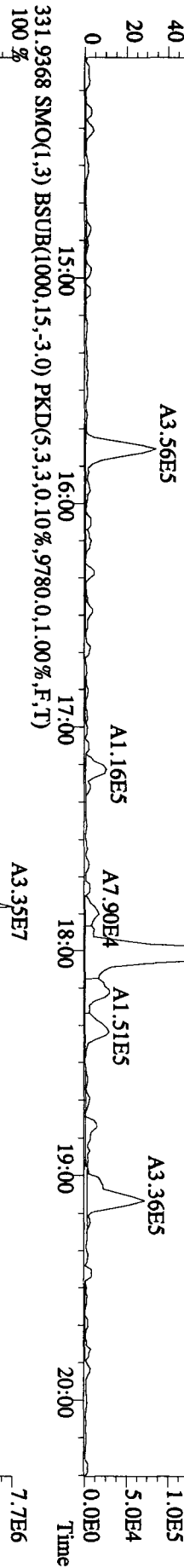
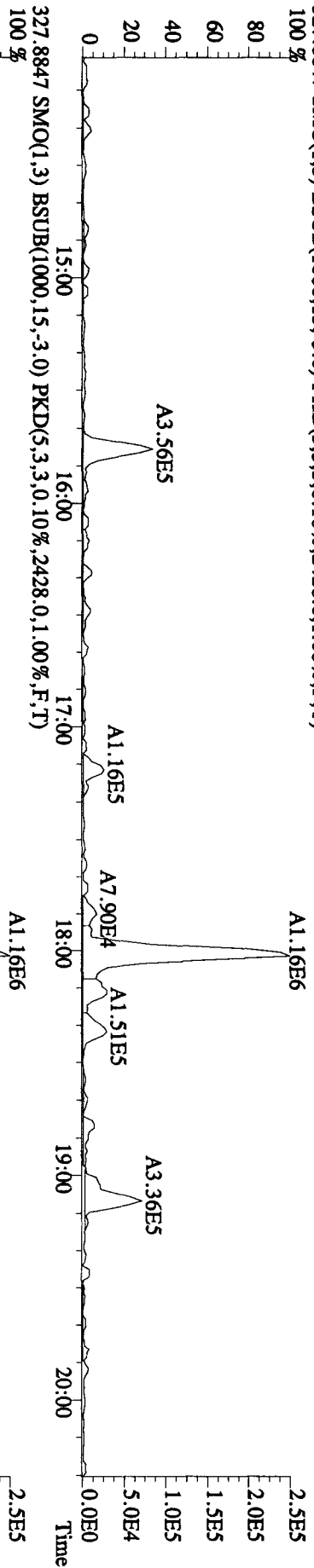
File:25AU10A1D5 #1-372 Acq:25-AUG-2010 21:38:22 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0825 :DB-5 CPM 3732-08 Exp:DIOXINRES  
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6476.0,1.00%,F,T)  
 100 % A3.68E7



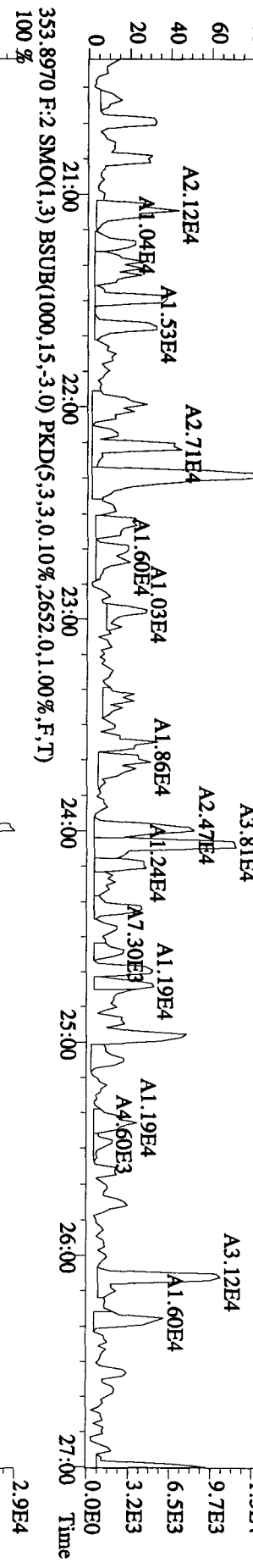
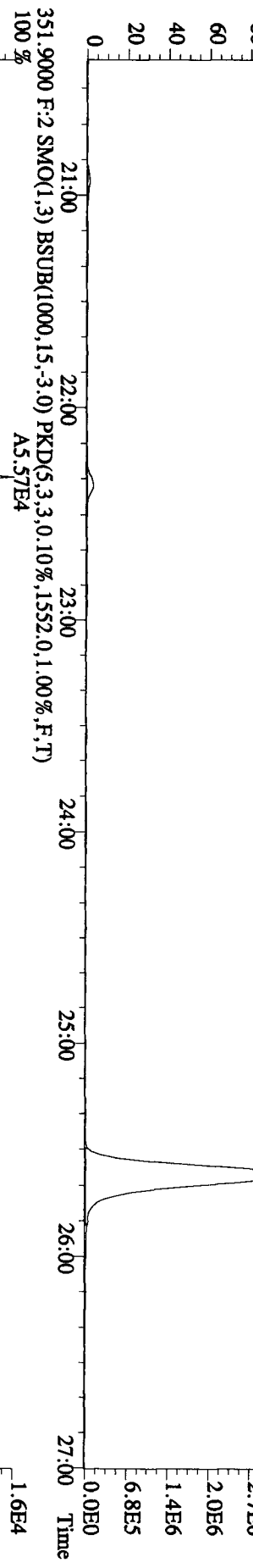
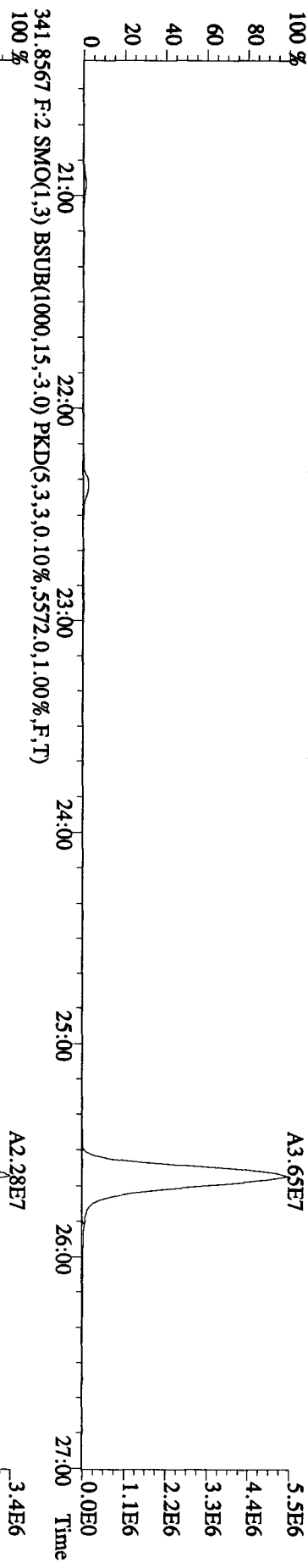
File:25AUI0AID5 #1-372 Acq:25-AUG-2010 21:38:22 GC EI+ Voltage SIR 70SE

Sample#1 Text:CP0825 :DB-5 CPM 3732-08 Exp:DIOXINRES

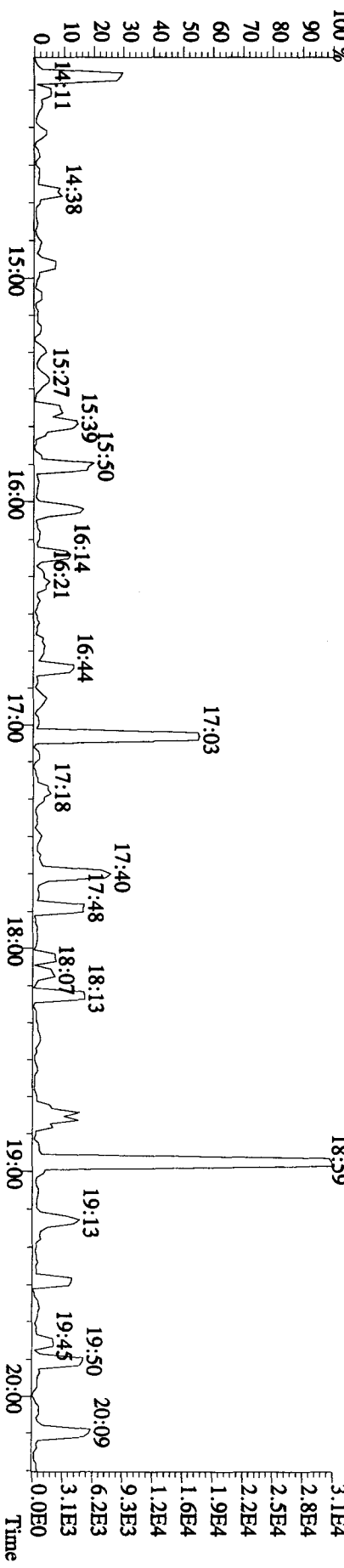
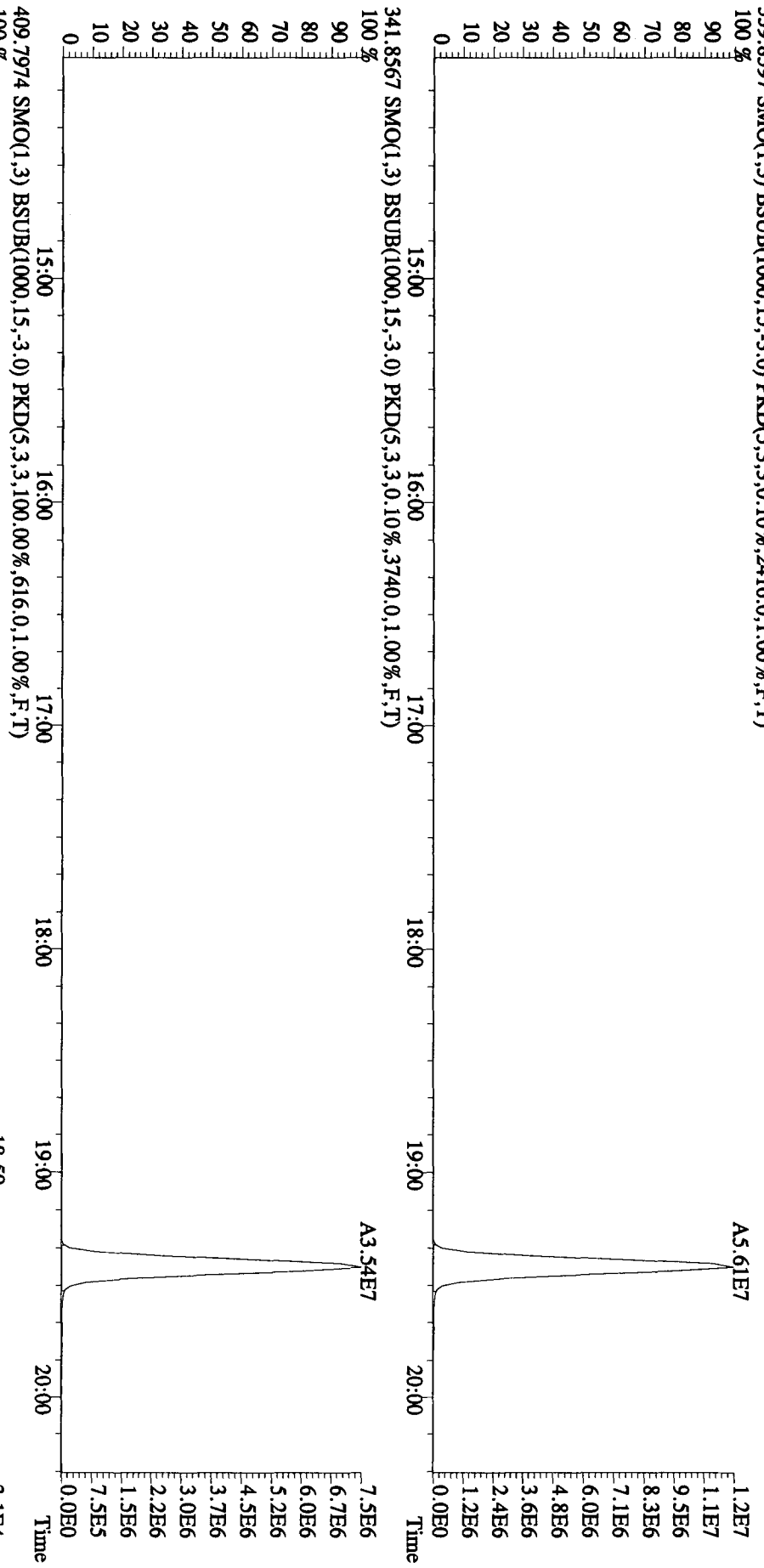
327.8847 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2428,0.1,00%,F,T) 100 %



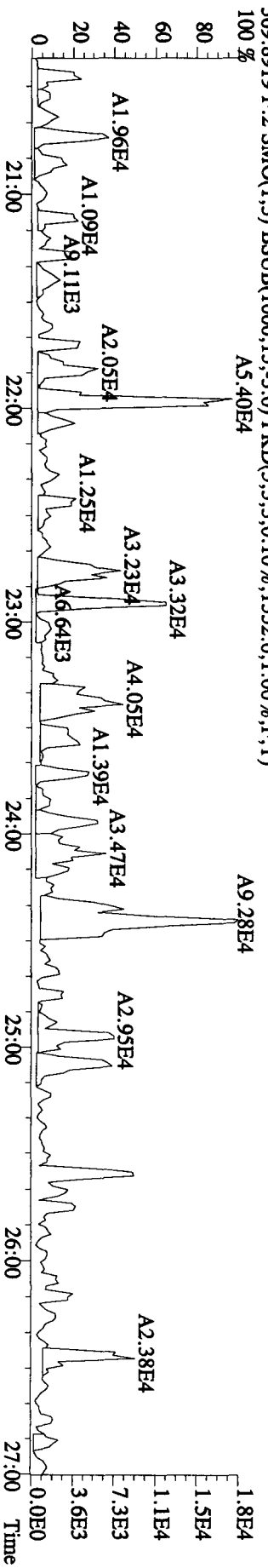
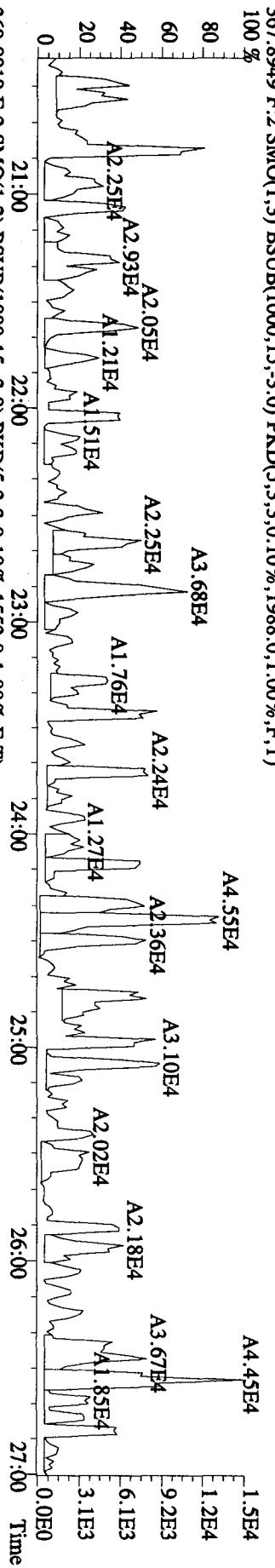
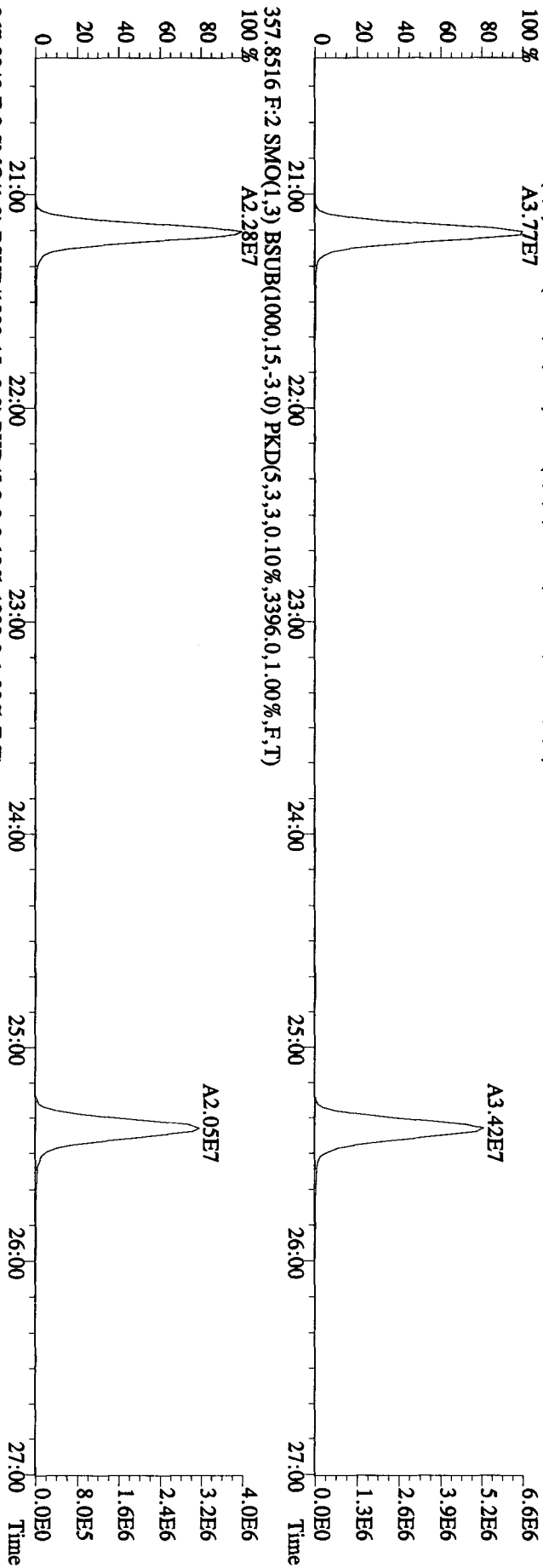
File:25AU10A1D5 #1-414 Acq:25-AUG-2010 21:38:22 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0825 :DB-5 CPM 3732-08 Exp:DIOXINRES  
 339.8597 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4156.0,1.00%,F,T)  
 100 %



File: 25AU10A1D5 #1-372 Acq: 25-AUG-2010 21:38:22 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0825 : DB-5 CPM 3732-08 Exp: DIOXINRES  
 339.8597 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2416.0,1.00%,F,T)

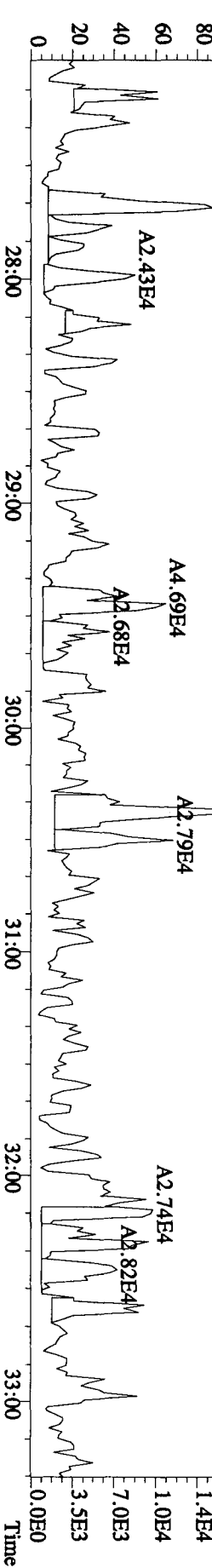
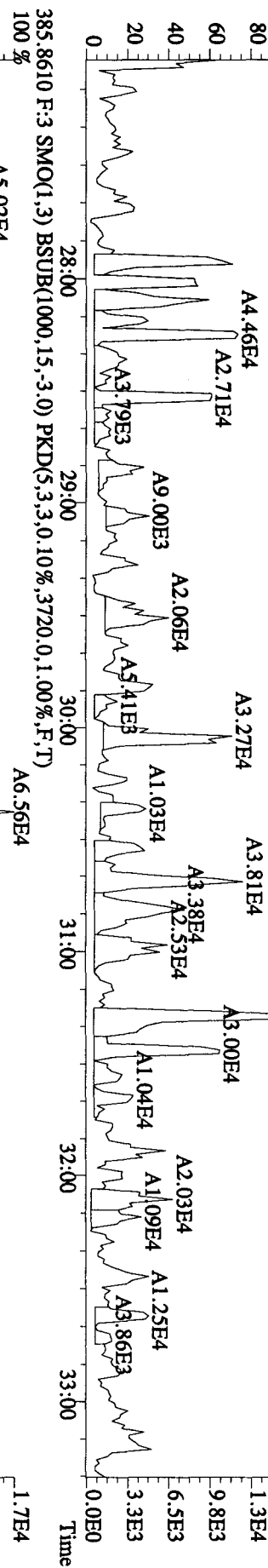
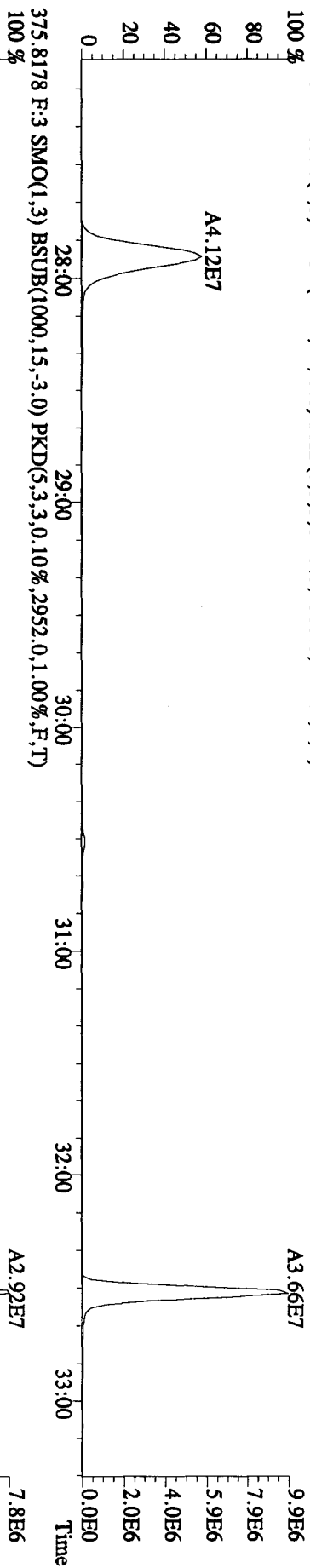


File:25AU10A1D5 #1-414 Acq:25-AUG-2010 21:38:22 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0825 :DB-5 CFSM 3732-08 Exp:DIOXINRES  
 357.8516 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3396.0,1.00%,F,T)  
 100% A3.77E7

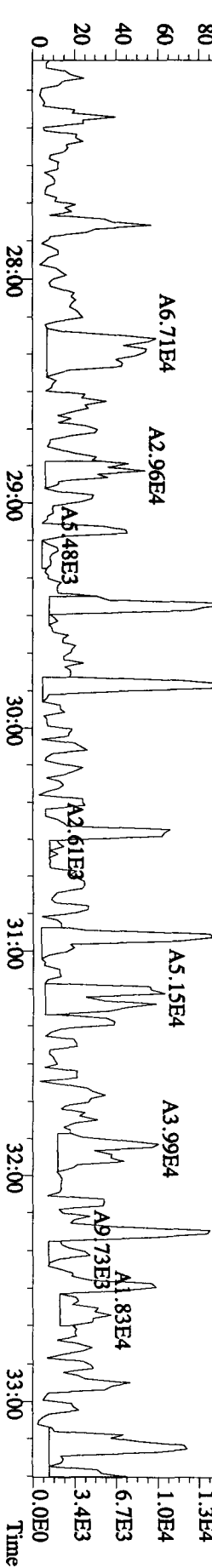
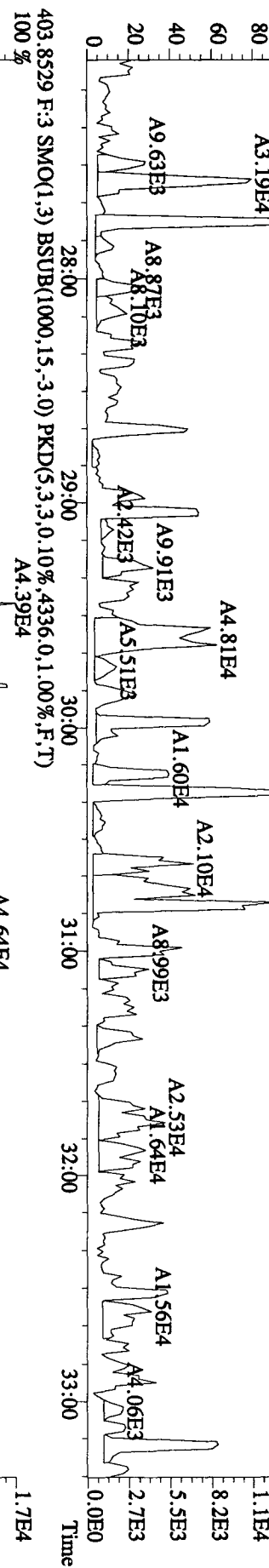
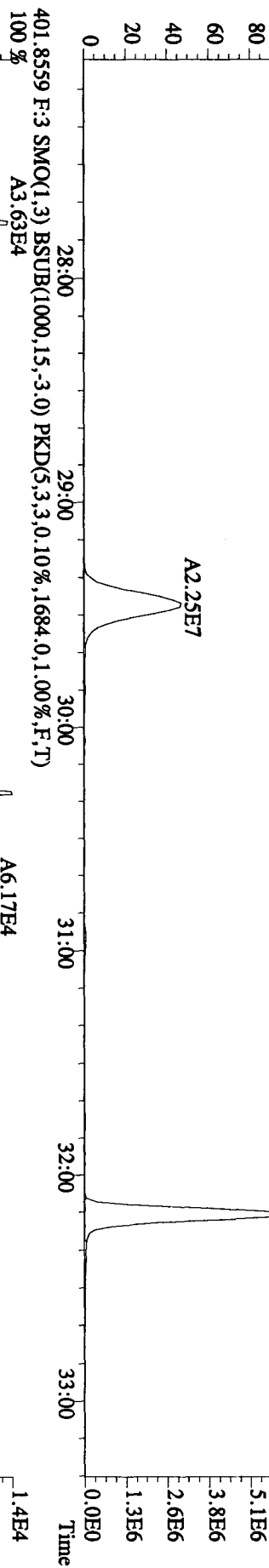
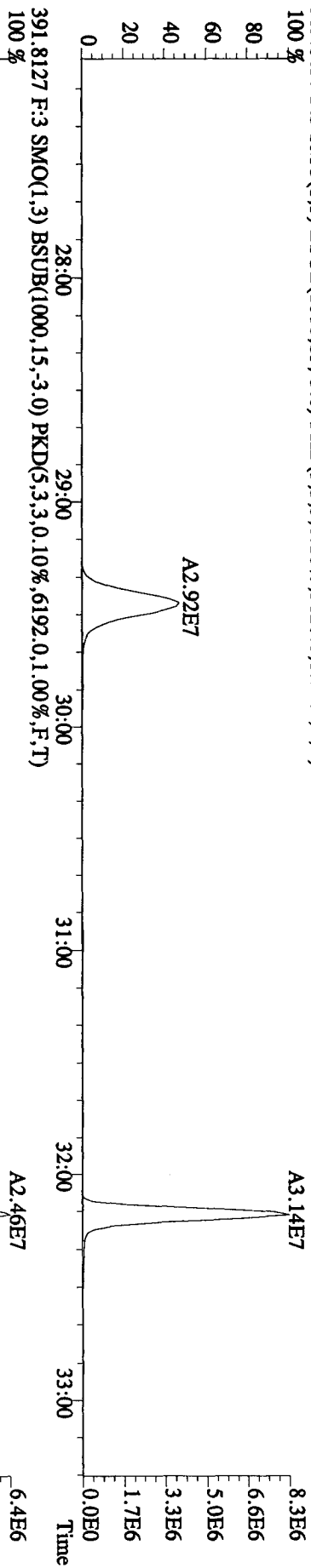




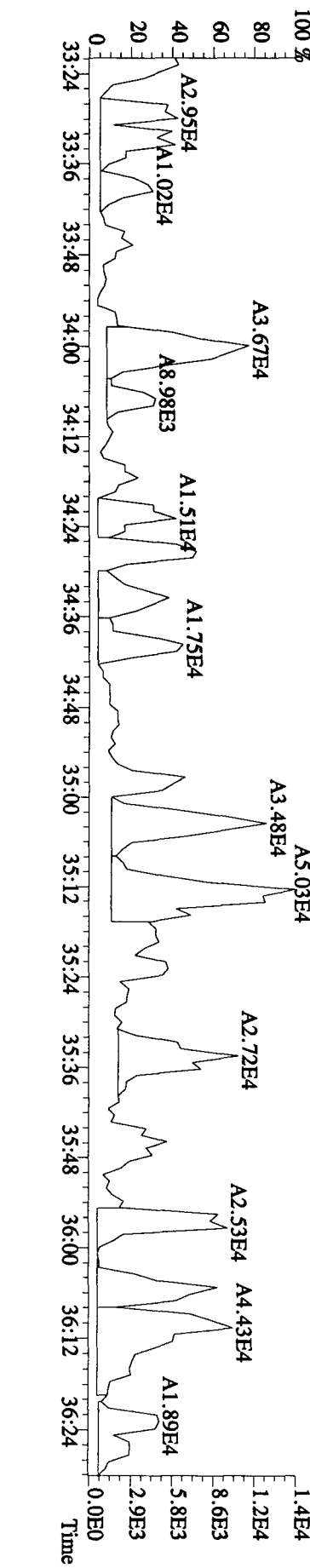
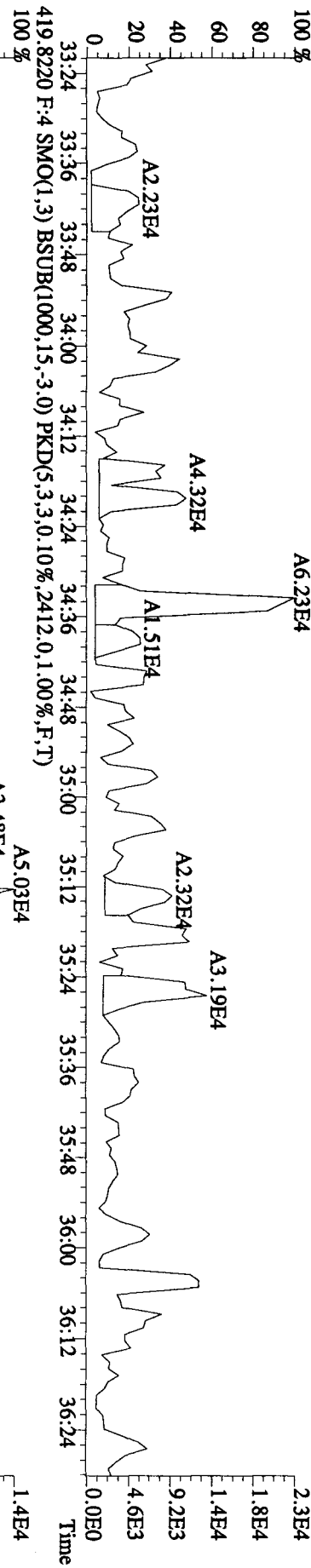
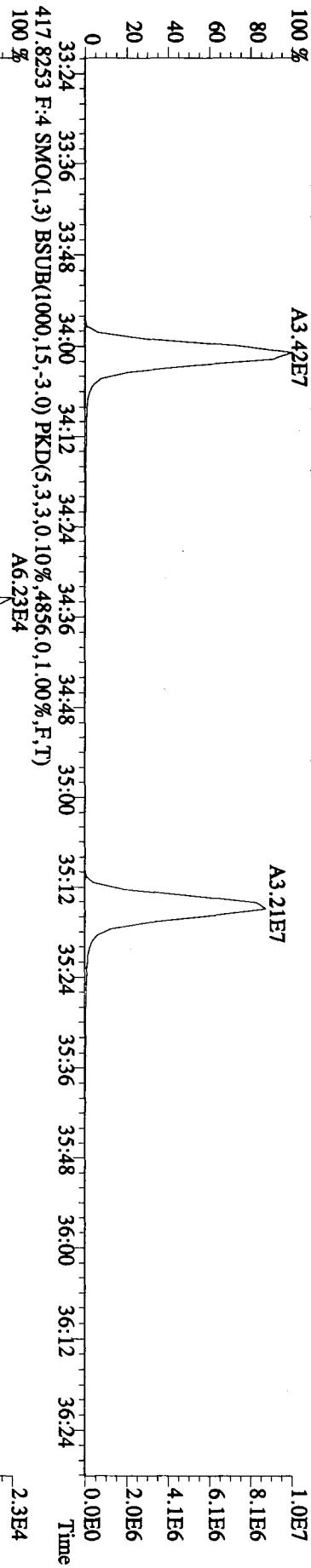
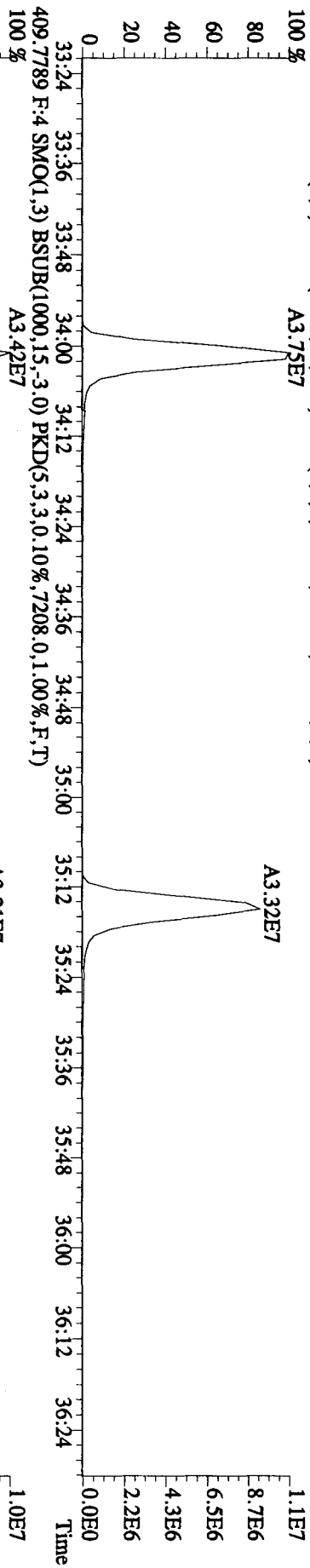
File:25AU10A1D5 #1-406 Acq:25-AUG-2010 21:38:22 GC EI + Voltage SIR 70SE  
 Sample#1 Text:CP0825 :DB-5 CPM 3732-08 Exp:DIOXINRES  
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4580,0.1,00%,F,T)  
 100 %

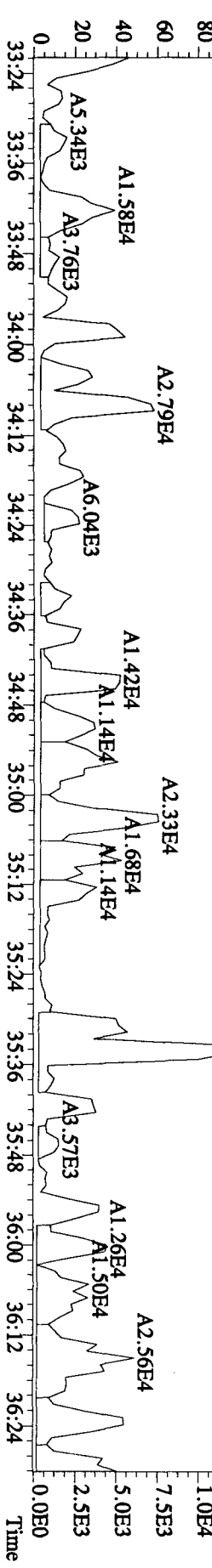
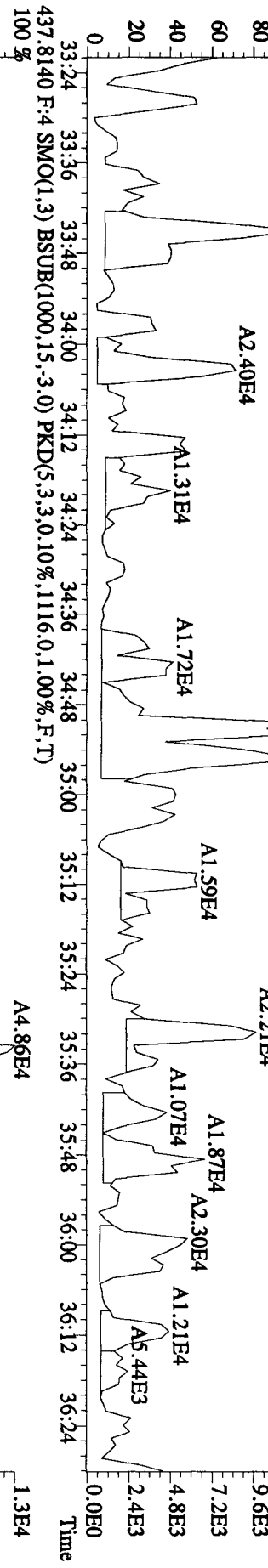
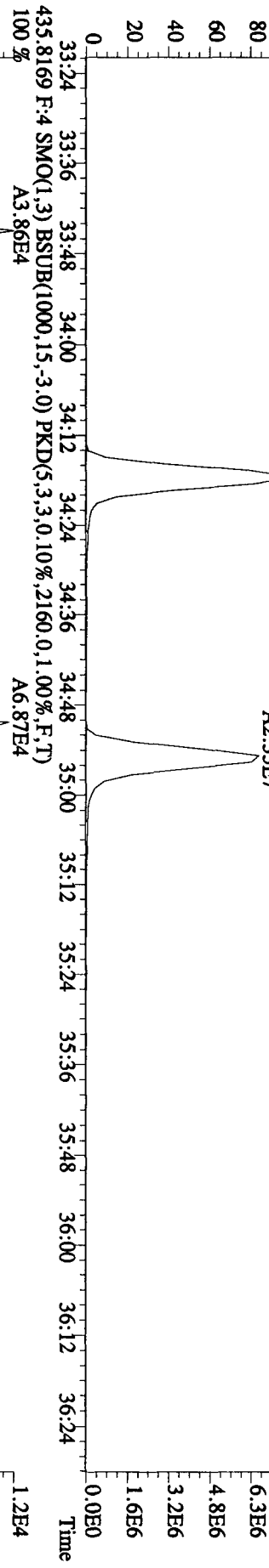
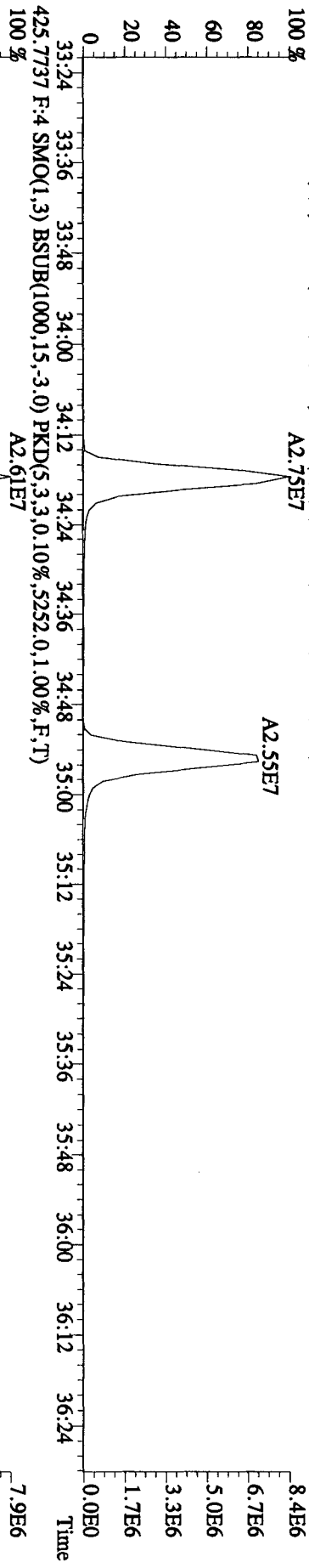


File:25AU10A1D5 #1-406 Acq:25-AUG-2010 21:38:22 GC EI + Voltage SIR 70SE  
 Sample#1 Text:CP0825 :DB-5 CPSM 3732-08 Exp:DIOXINRES  
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3.820,0.1,0.00%,F,T)  
 100 %

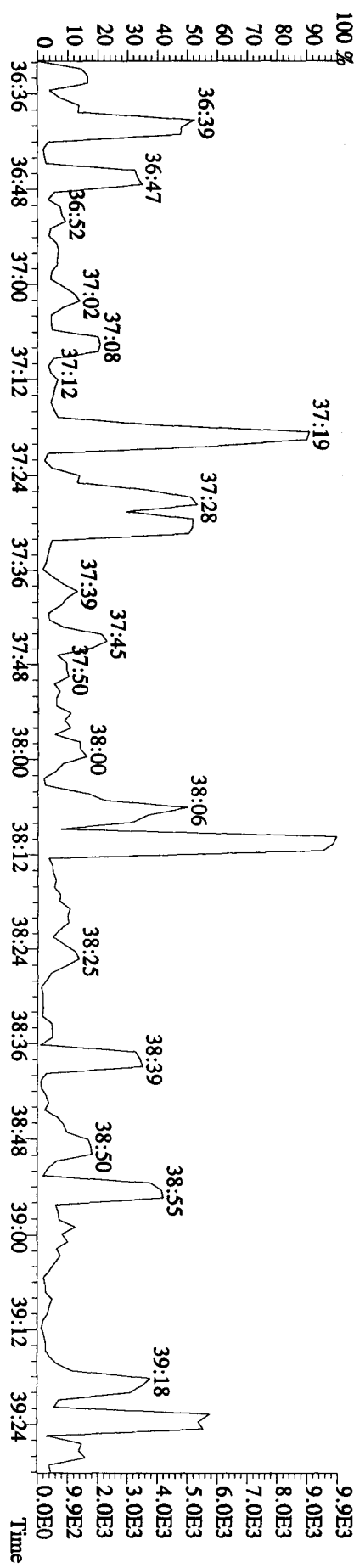
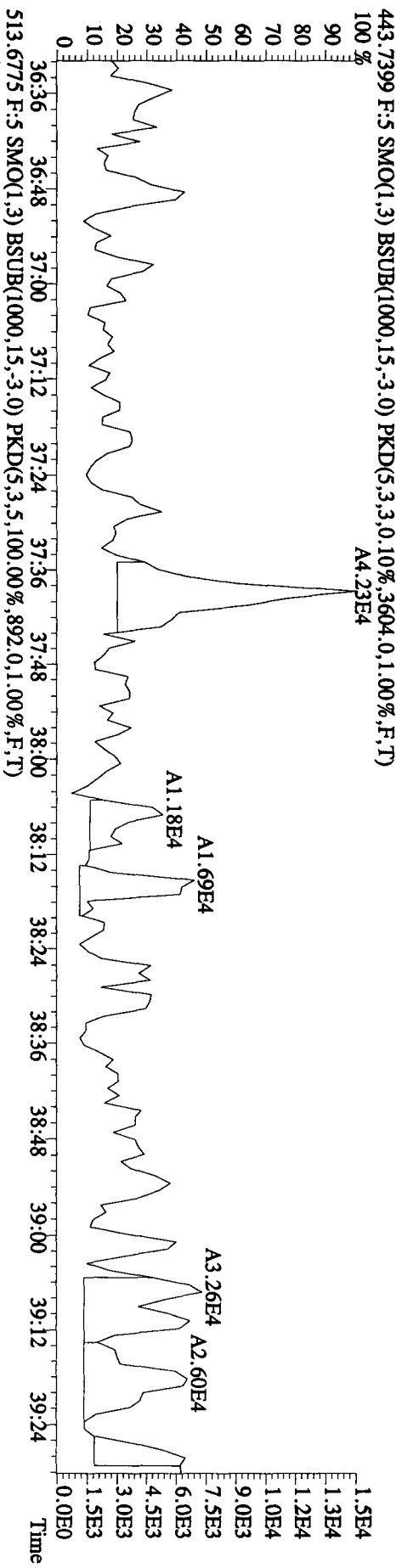
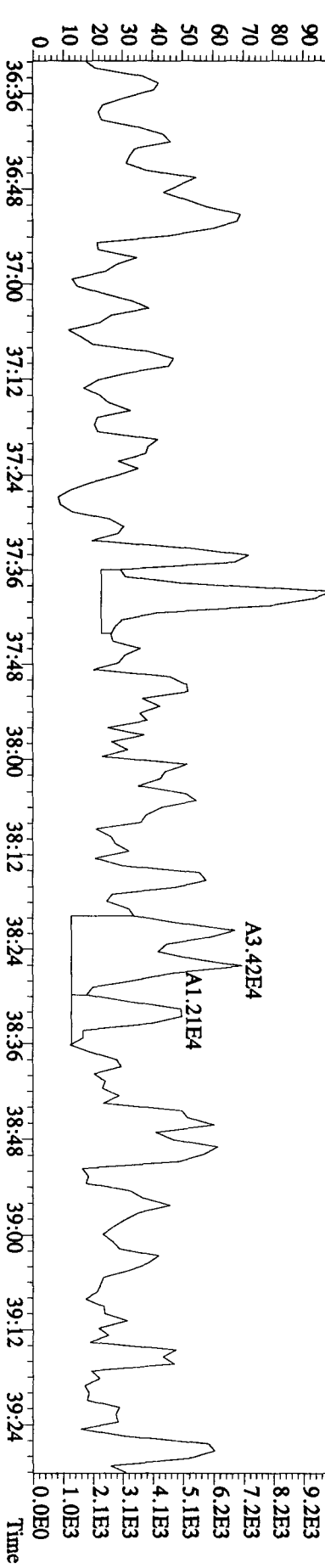


File:25AU10A1D5 #1-214 Acq:25-AUG-2010 21:38:22 GC EI + Voltage SIR 70SE  
 Sample#1 Text:CP0825 :DB-5 CPM 3732-08 Exp:DIOXINRES  
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4396.0,1.00%,F,T)  
 100 %

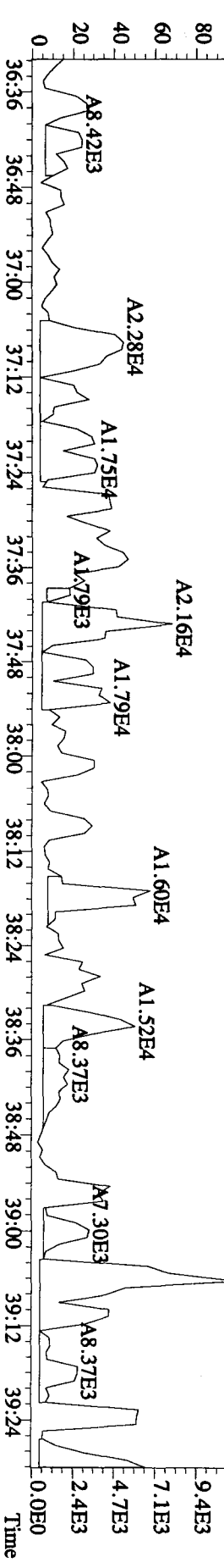
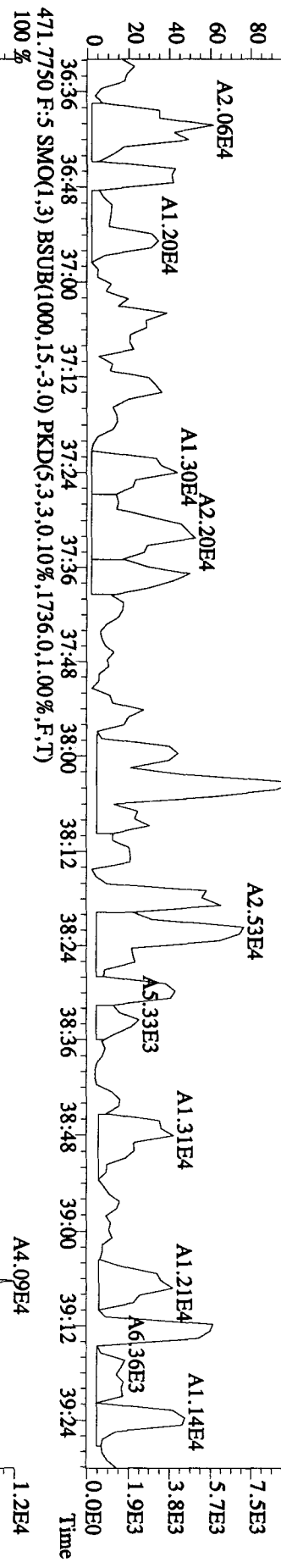
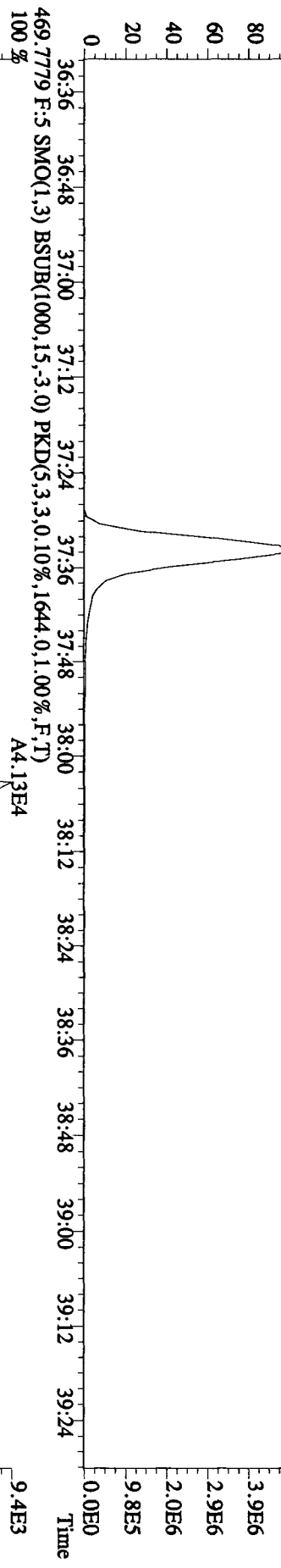
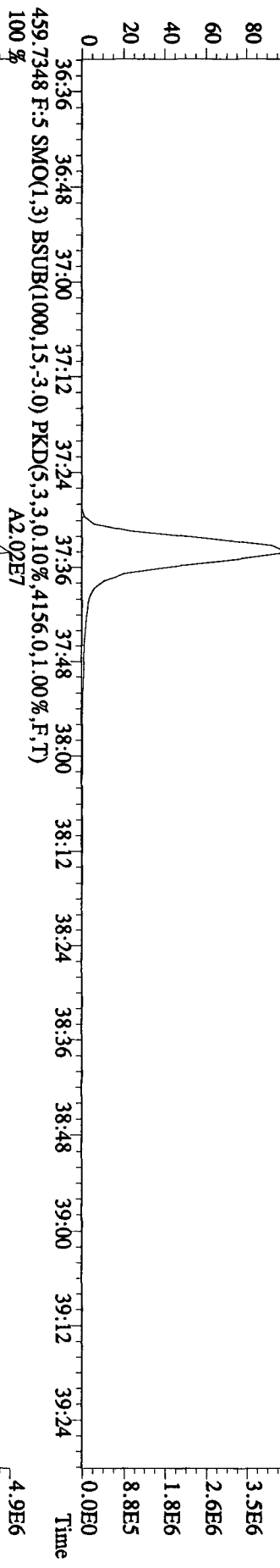




File: 25AU10A1D5 #1-196 Acq: 25-AUG-2010 21:38:22 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0825 :DB-5 CPSM 3732-08 Exp: DIOXINRES  
 441.7428 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,4108.0,1.00%,F,T)  
 100%



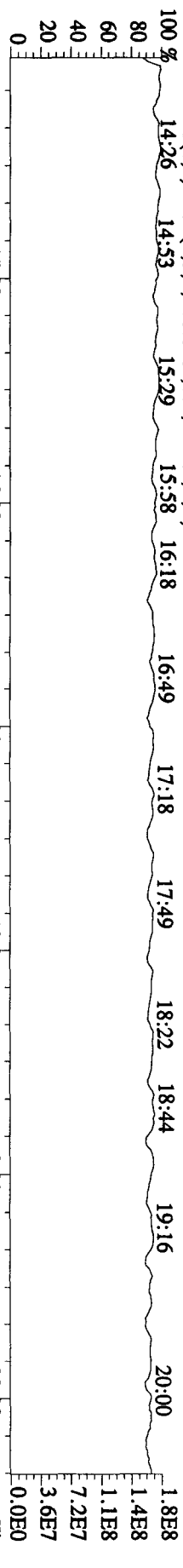
File: 25AU10A1D5 #1-196 Acq: 25-AUG-2010 21:38:22 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0825 :DB-5 CPSM 3732-08 Exp: DIOXINRES  
 457.7377 F.:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4048.0,1.00%,F,T)  
 100% A1.79E7



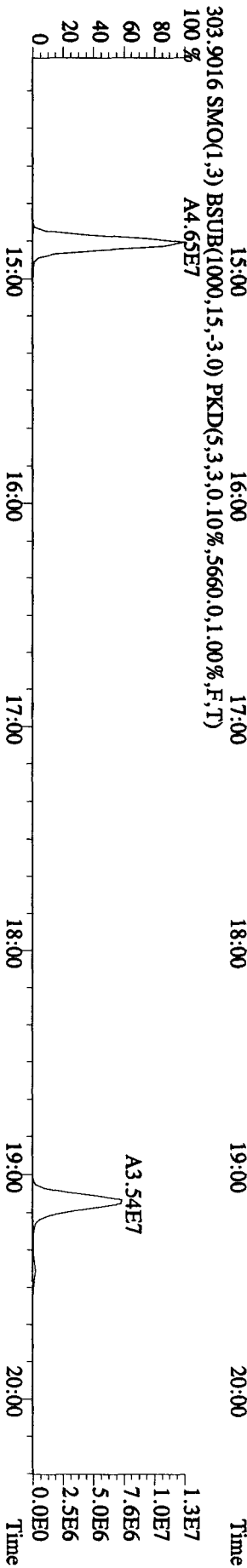
File:25AUI0AIDS #1-372 Acq:25-AUG-2010 21:38:22 GC EI+ Voltage SIR 70SE

Sample#1 Text:CP0825 :DB-5 CPM 3732-08 Exp:DIOXINRES

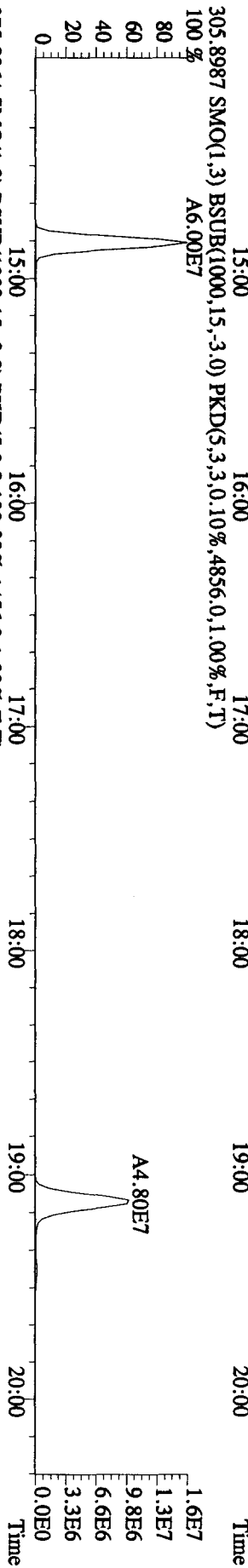
292.9825 SMO(1.3) PKD(5.3,5.100,0.0,0.1,0.0%,F,T)



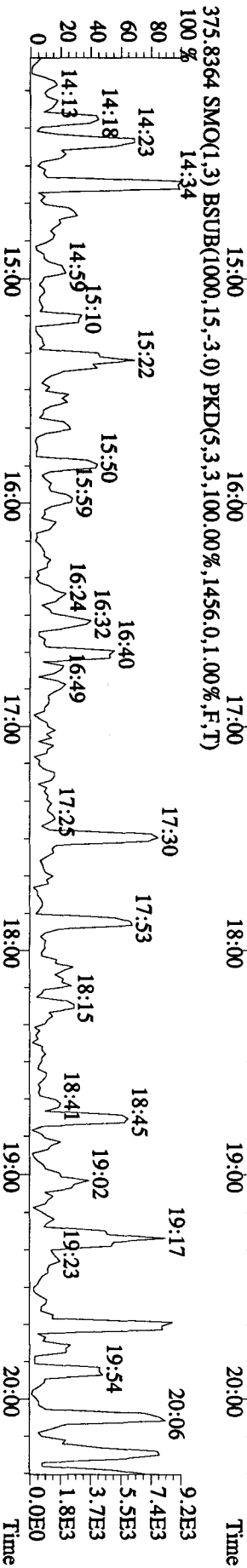
303.9016 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,5660,0.1,0.0%,F,T)



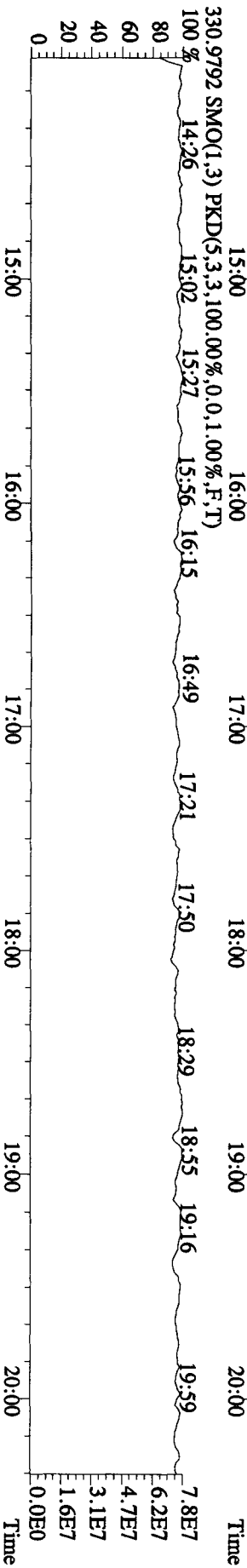
305.8987 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,4856,0.1,0.0%,F,T)



375.8364 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.100,0.0%,1456,0.1,0.0%,F,T)



330.9792 SMO(1.3) PKD(5.3,3.100,0.0%,0.1,0.0%,F,T)



File:25AU10A1D5 #1-414 Acq:25-AUG-2010 21:38:22 GC EI+ Voltage SIR 70SE

Sample#1 Text:CP0825 :DB-5 CPM 3732-08 Exp:DIOXINRES

342.9792 F:2.SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100%

20:49 21:15 21:36 21:59 22:31 22:55

23:38 24:01

24:37

25:29

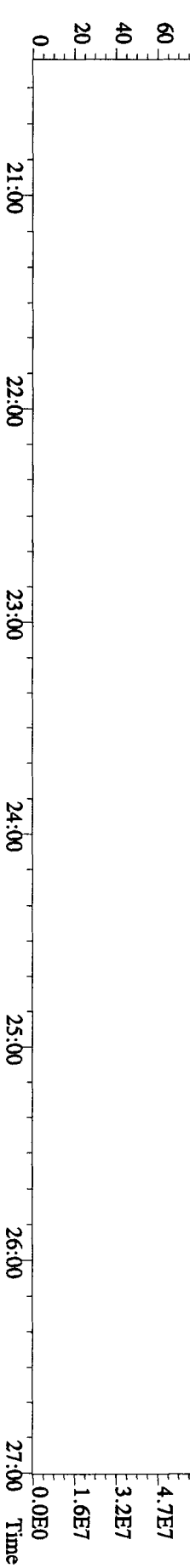
26:12 26:32

7.9E7

6.3E7

4.7E7

60 40 20 0



100%

21:00 22:00 23:00 24:00 25:00 26:00 27:00

5.5E6

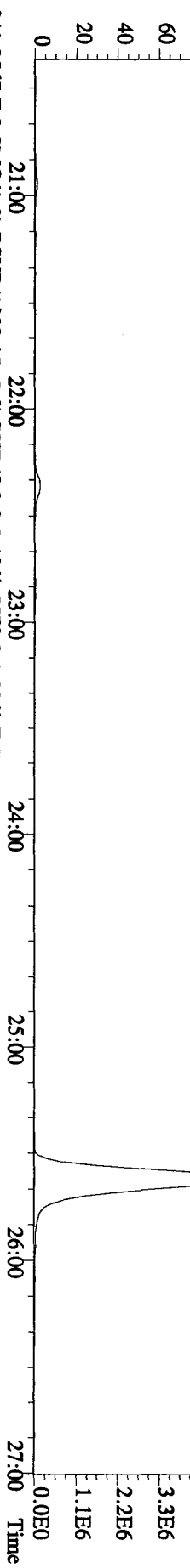
4.4E6

3.3E6

2.2E6

1.1E6

80 60 40 20 0



100%

21:00 22:00 23:00 24:00 25:00 26:00 27:00

3.4E6

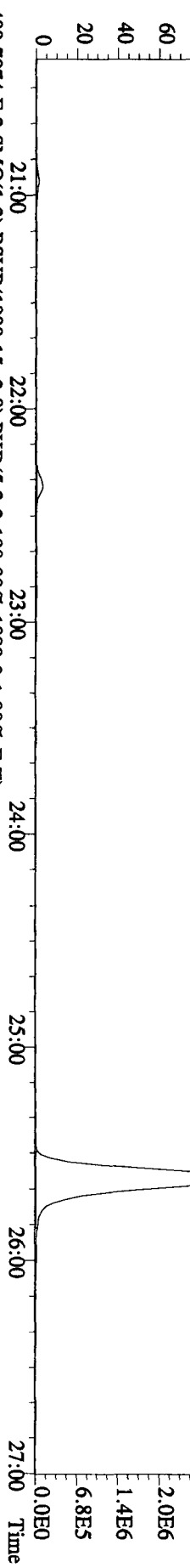
2.7E6

2.0E6

1.4E6

6.8E5

80 60 40 20 0



100%

21:00 22:00 23:00 24:00 25:00 26:00 27:00

1.0E4

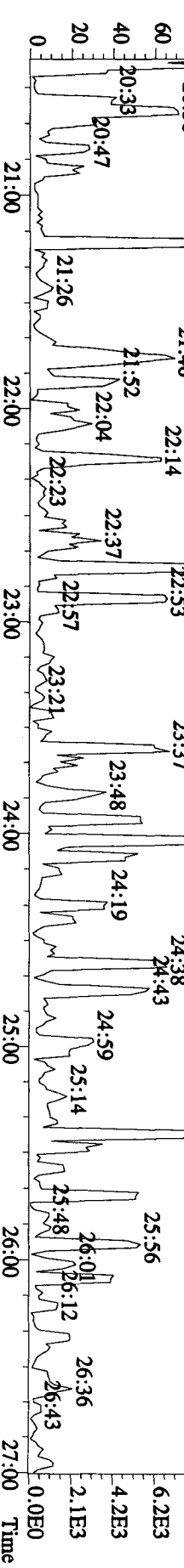
8.3E3

6.2E3

4.2E3

2.1E3

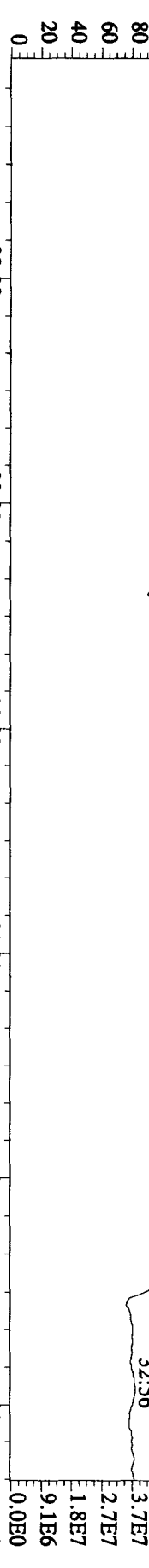
20:38 20:47 21:12 21:26 21:46 21:52 22:04 22:14 22:23 22:37 22:44 22:53 22:57 23:21 23:37 23:48 24:02 24:19 24:38 24:43 24:59 25:14 25:26 25:48 25:56 26:01 26:12 26:36 26:43





Sample#1 Text:CP0825 :DB-5 CPSM 3732-08 Exp:DIOXINRES

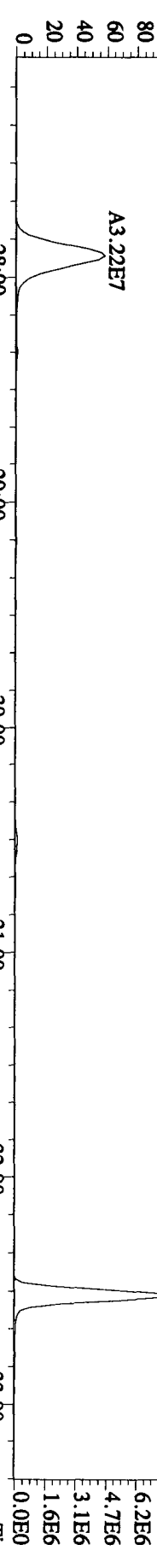
392.9760 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



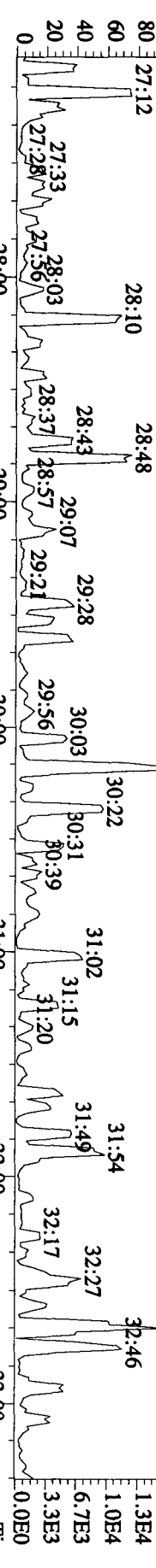
373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4580.0,1.00%,F,T)



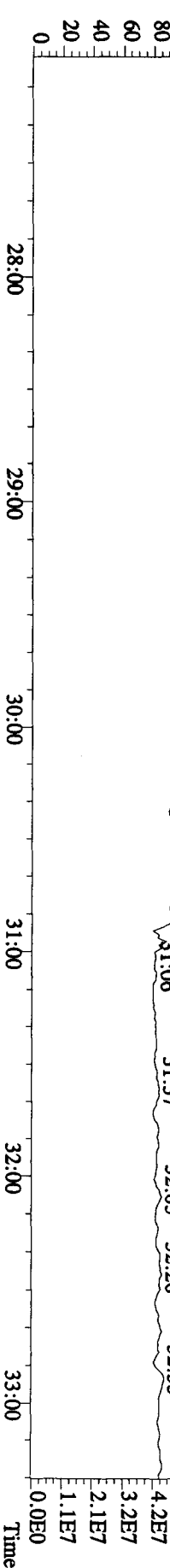
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2952.0,1.00%,F,T)

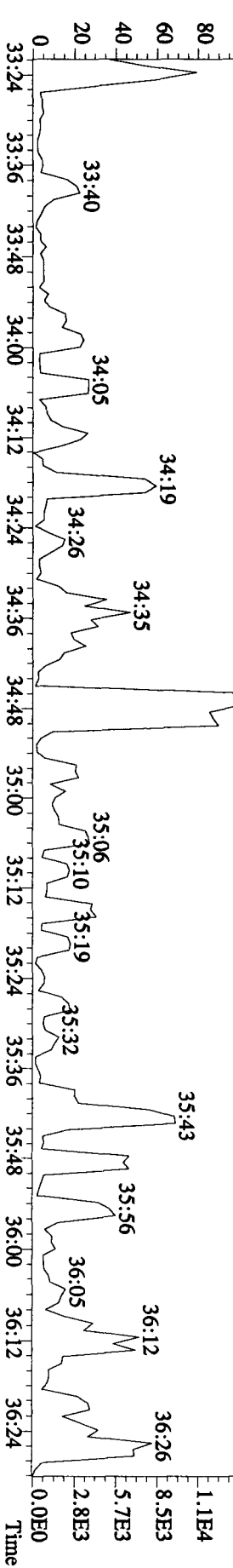
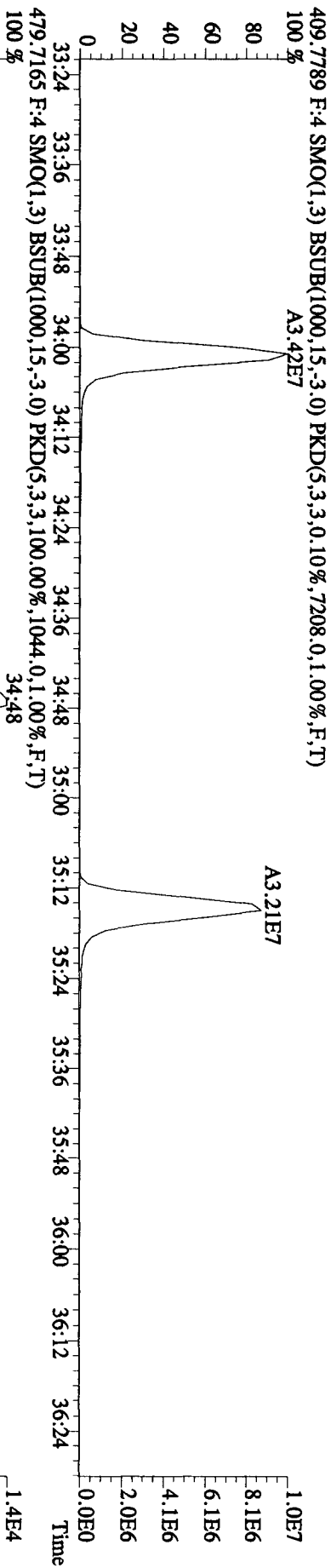
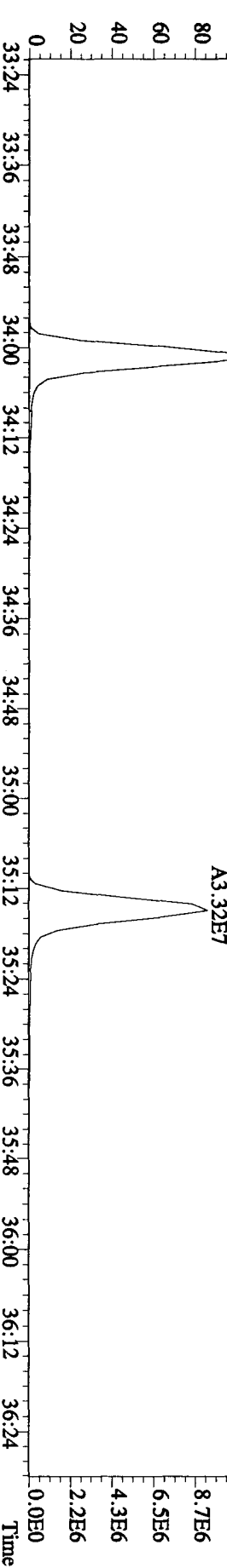
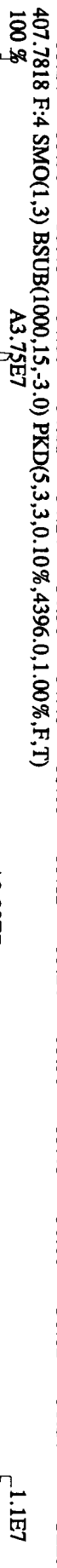
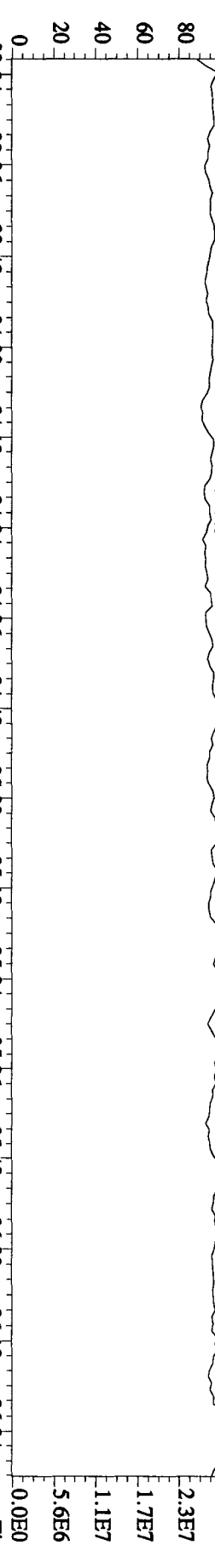


445.7555 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1004.0,1.00%,F,T)



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





File:25AU10A1D5 #1-196 Acq:25-AUG-2010 21:38:22 GC EI + Voltage SIR 70SE

Sample#1 Text:CP0825 :DB-5 CPSM 3732-08 Exp:DIOXINRES

454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 %56:37

36:59

37:16

37:28

37:41

37:51

38:01

38:14

38:28

38:38

38:49

39:08

39:17

2.5E7

2.3E7

2.0E7

1.8E7

1.5E7

1.3E7

1.0E7

90

80

70

60

50

40

30

20

10

0

90

80

70

60

50

40

30

20

10

0

36:36

36:48

37:00

37:12

37:24

37:36

37:48

38:00

38:12

38:24

38:36

38:48

39:00

39:12

39:24

2.9E7

2.6E7

2.3E7

2.0E7

1.7E7

1.5E7

1.2E7

8.7E6

5.8E6

2.9E6

0.0E0

Time

442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 36:38

37:09

37:19

37:28

37:45

37:57

38:15

38:35

38:47

39:05

39:18

2.9E7

2.6E7

2.3E7

2.0E7

1.7E7

1.5E7

1.2E7

8.7E6

5.8E6

2.9E6

0.0E0

Time

36:36

36:48

37:00

37:12

37:24

37:36

37:48

38:00

38:12

38:24

38:36

38:48

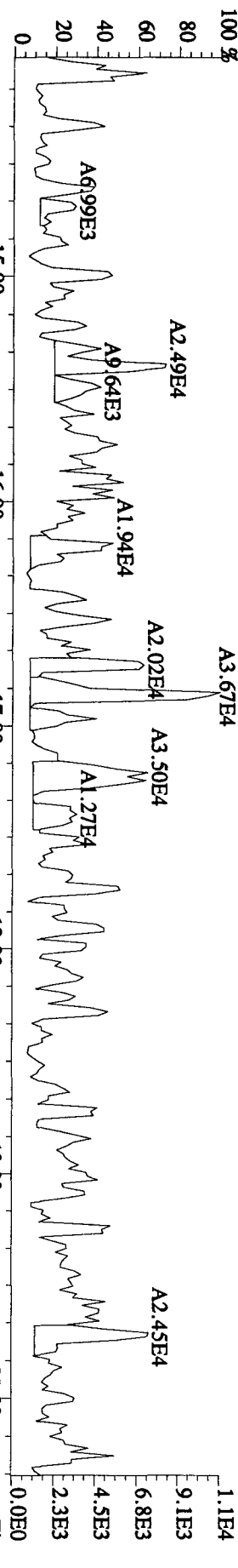
39:00

39:12

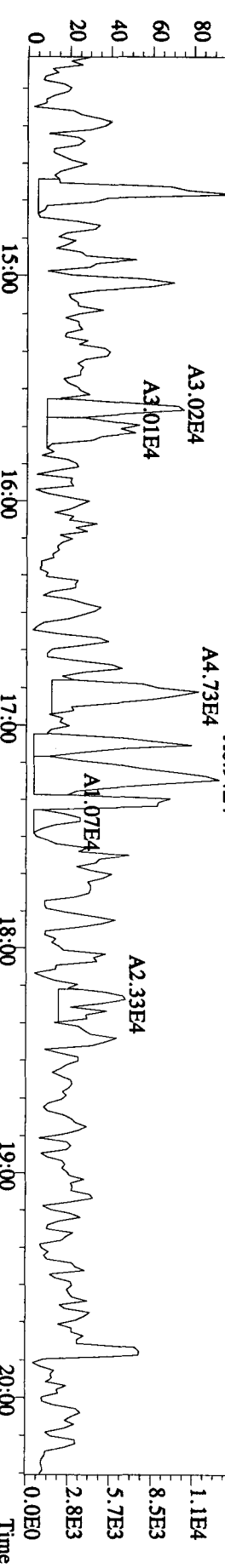
39:24

Time

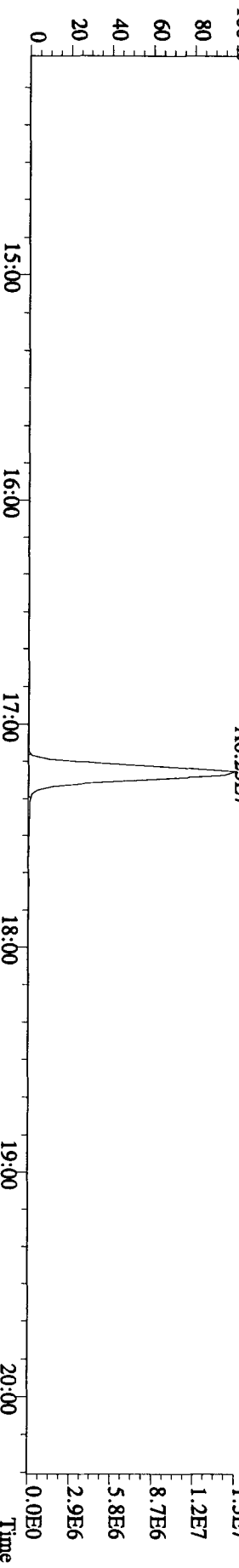
File:25AU10A1D5 #1-372 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3080.0,1.00%,F,T)  
 100 %



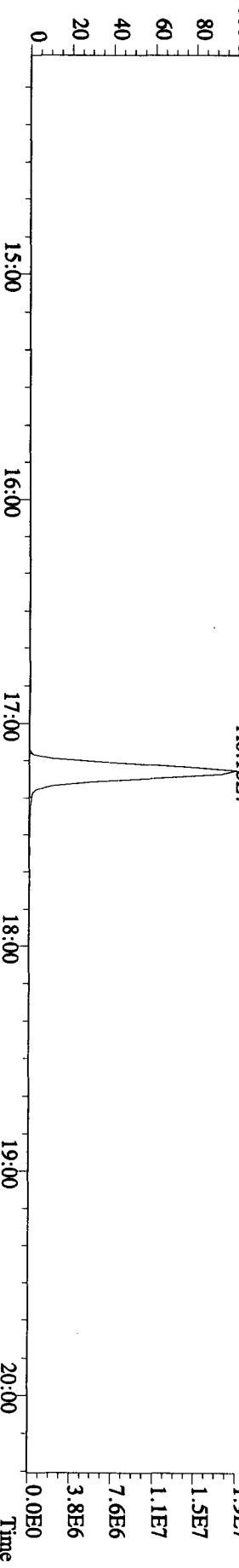
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4412.0,1.00%,F,T)  
 100 %



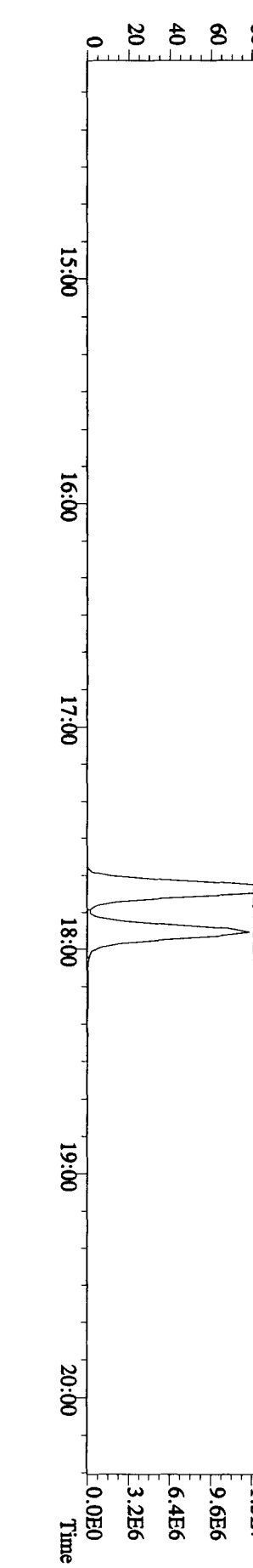
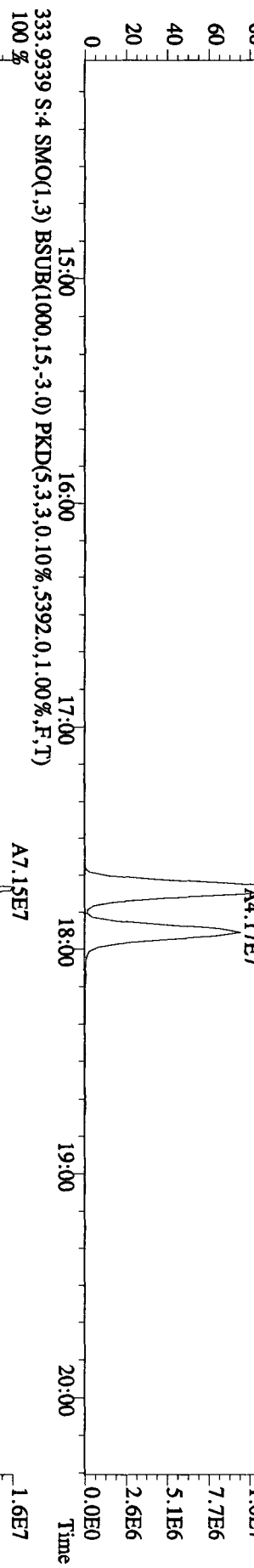
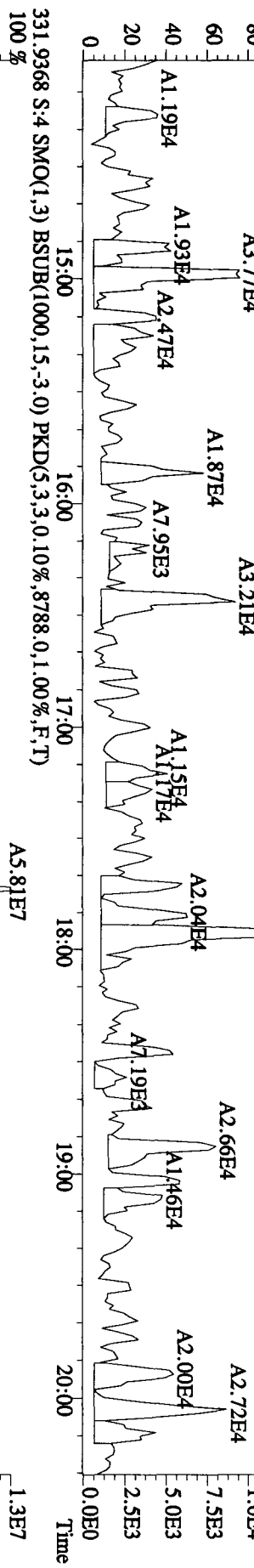
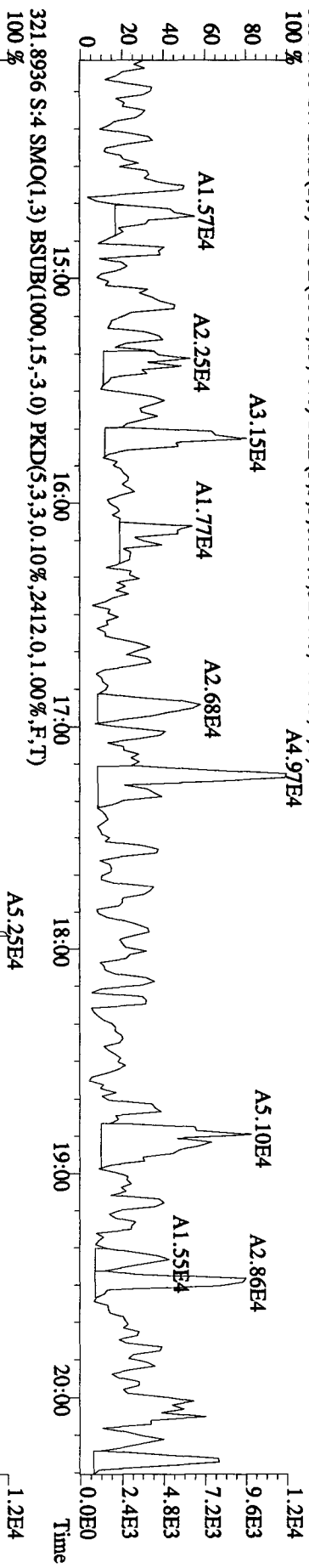
315.9419 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3768.0,1.00%,F,T)  
 100 %



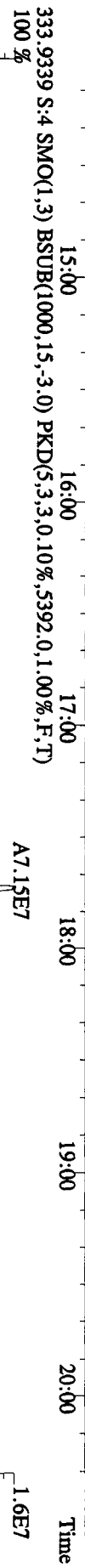
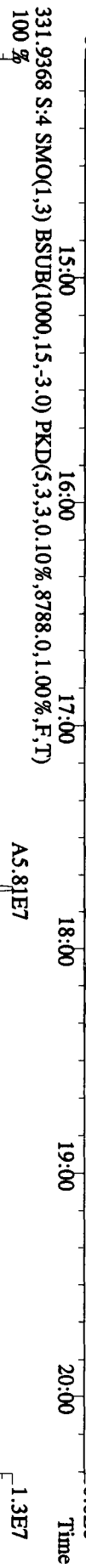
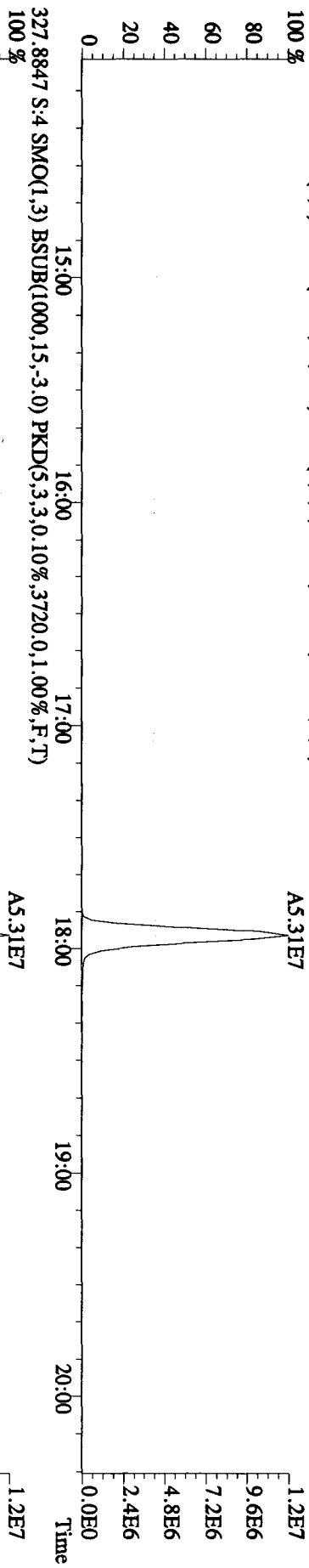
317.9389 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4208.0,1.00%,F,T)  
 100 %



File:25AUI0AIDS #1-372 Acq:25-AUG-2010 23:56:42 GC EI + Voltage SIR 70SE  
 Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3204.0,1.00%,F,T)  
 100 %



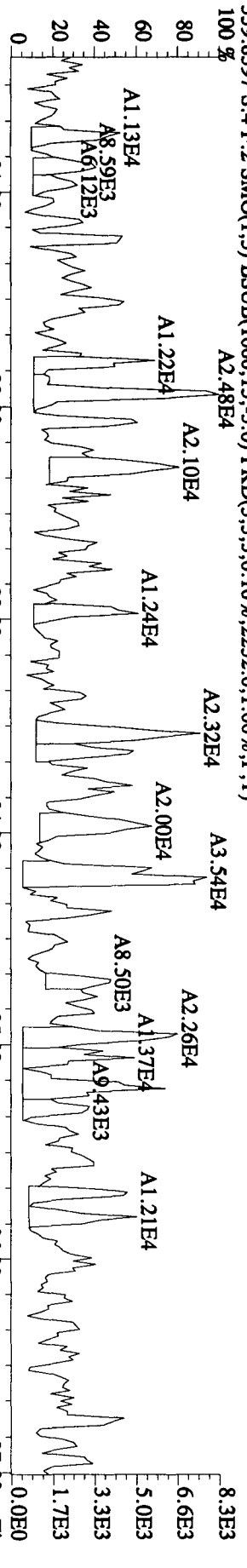
File:25AU10A1D5 #1-372 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3720.0,1.00%,F,T)  
 100 %



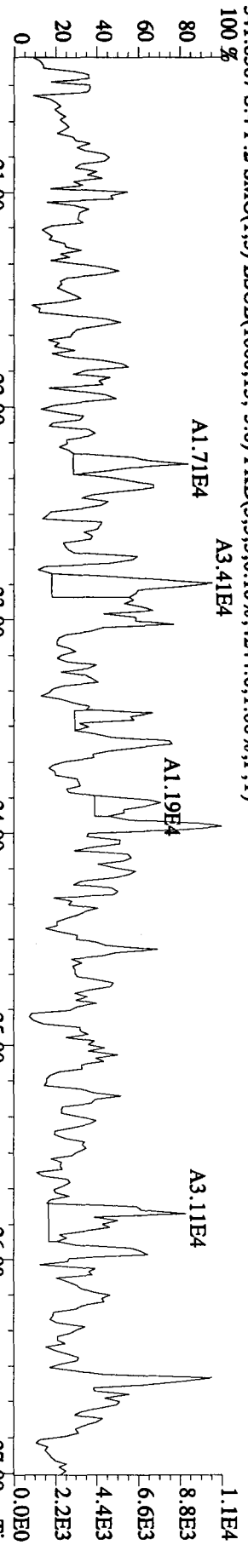
File:25AUI0A1D5 #1-414 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE

Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES

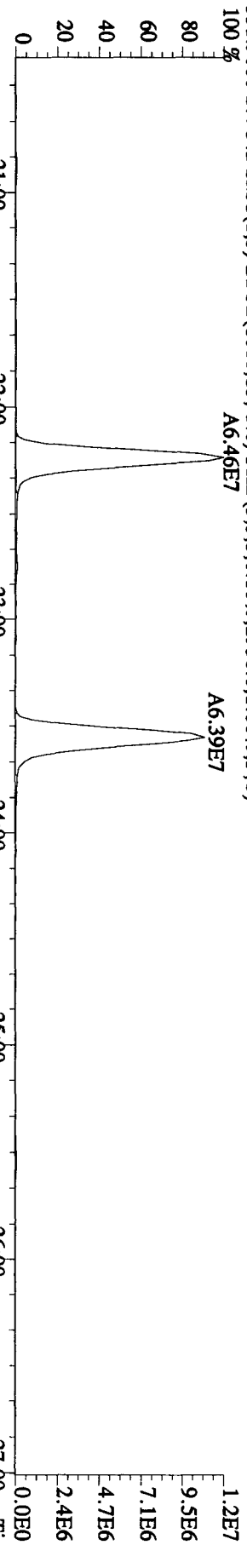
339.8597 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2232.0,1.00%,F,T)



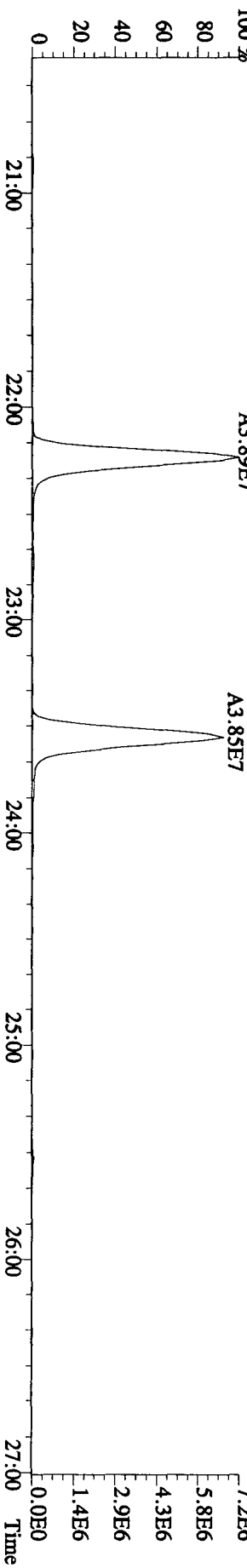
341.8567 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4244.0,1.00%,F,T)



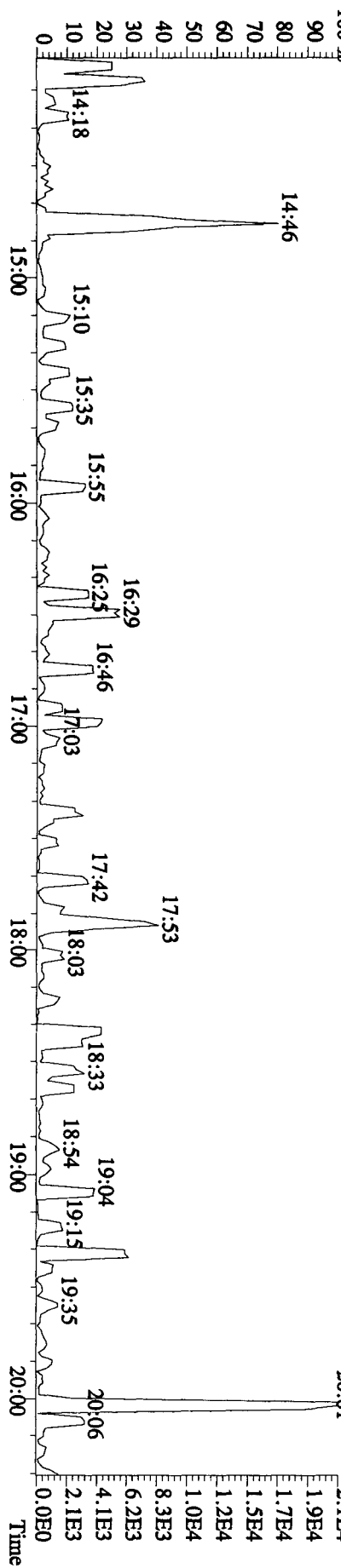
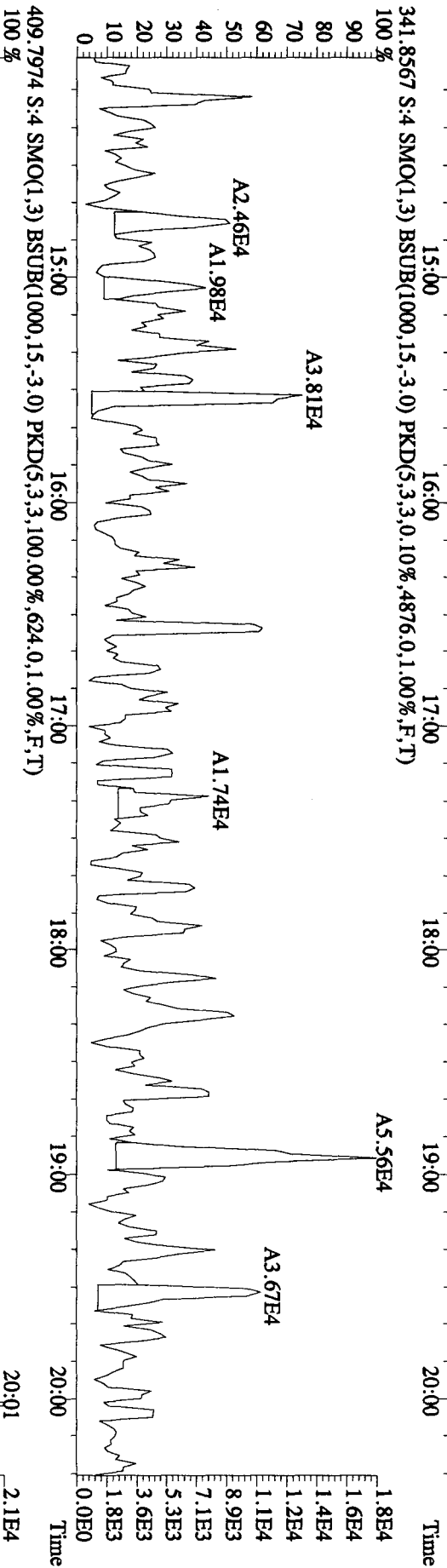
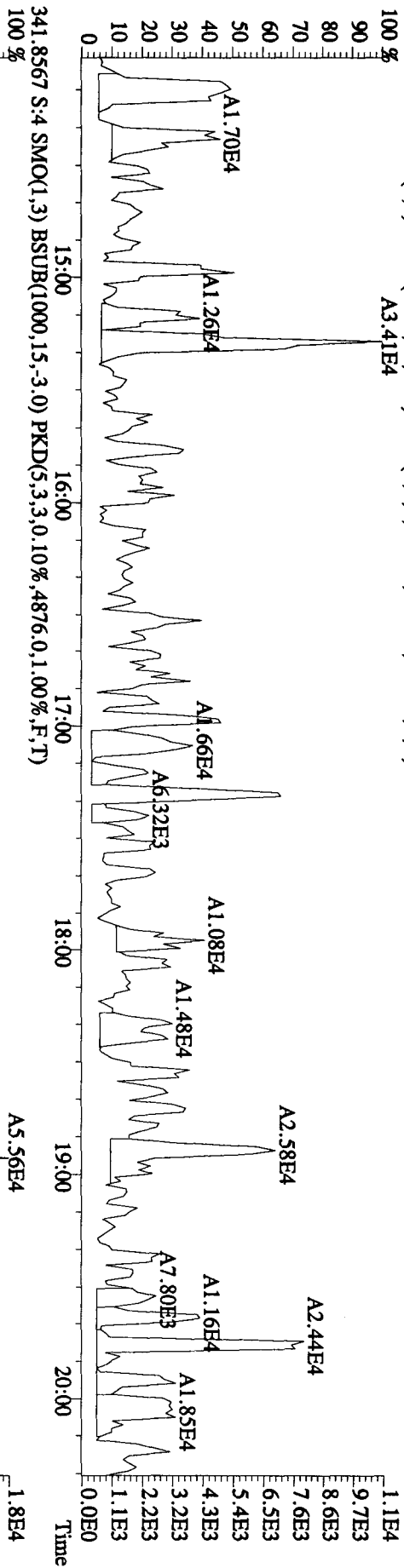
351.9000 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2956.0,1.00%,F,T)



353.8970 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4864.0,1.00%,F,T)



File:25AU10A1D5 #1-372 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINES  
 339 8597 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1636,0,1,00%,F,T)  
 100 %

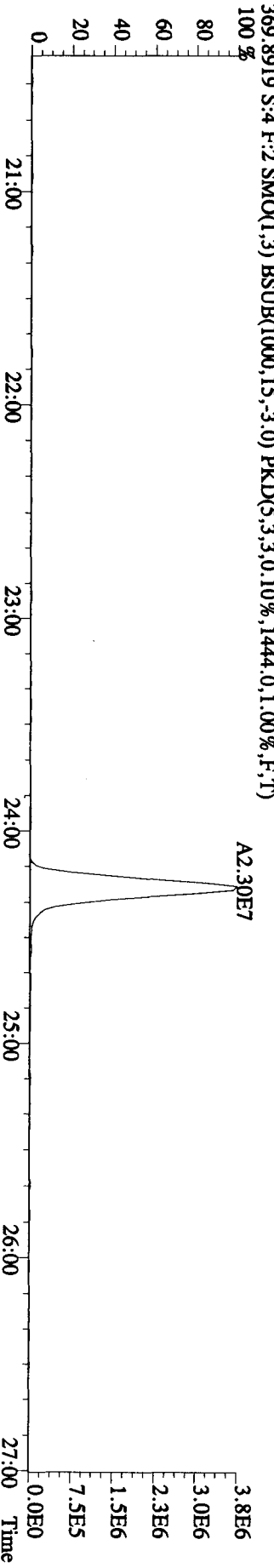
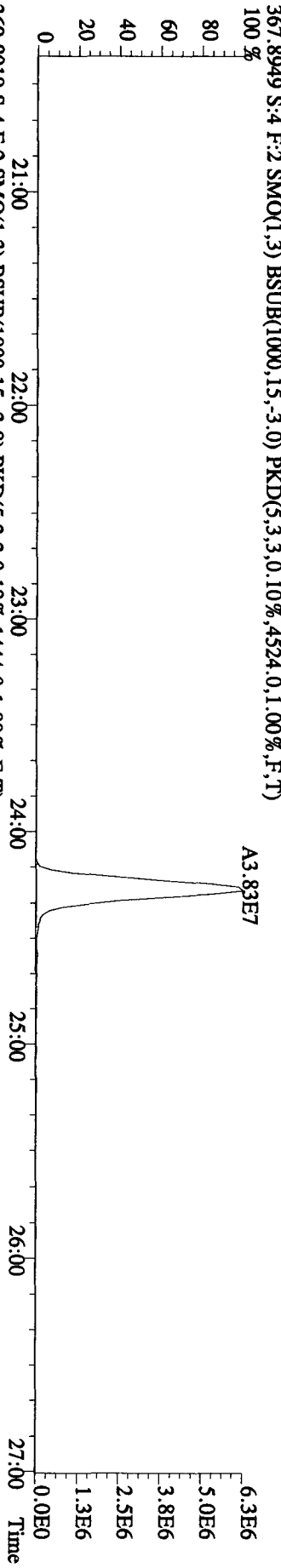
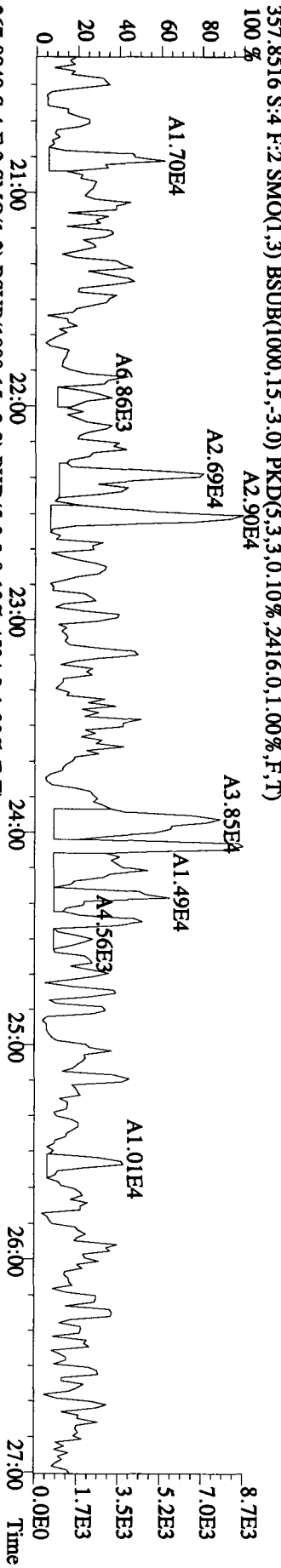
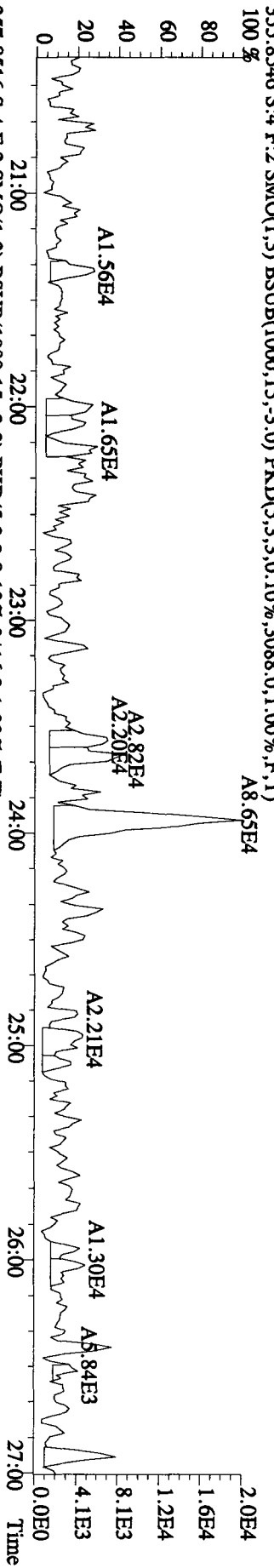


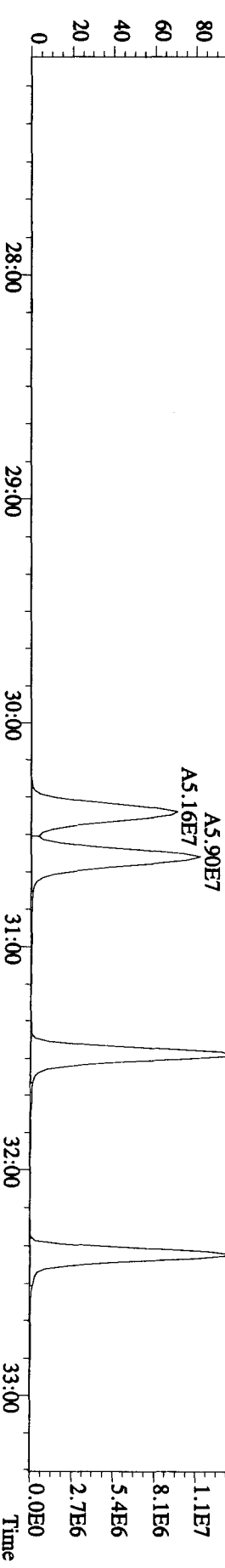
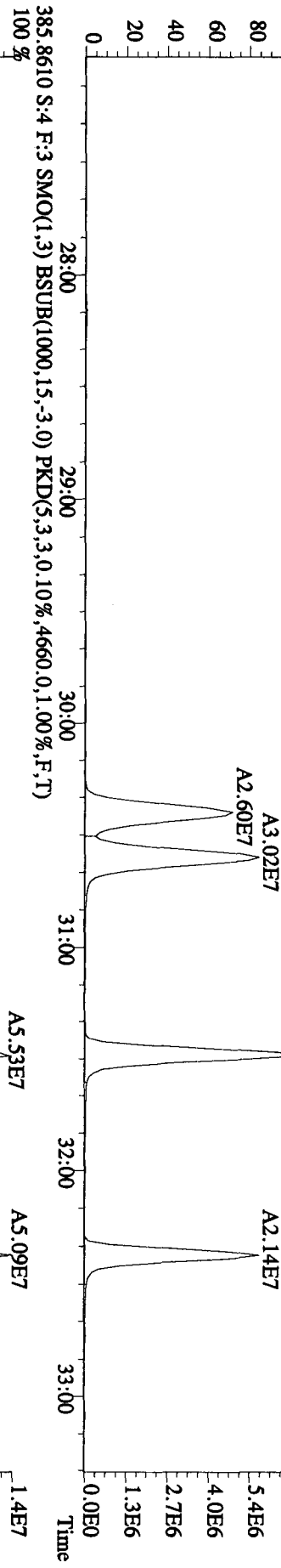
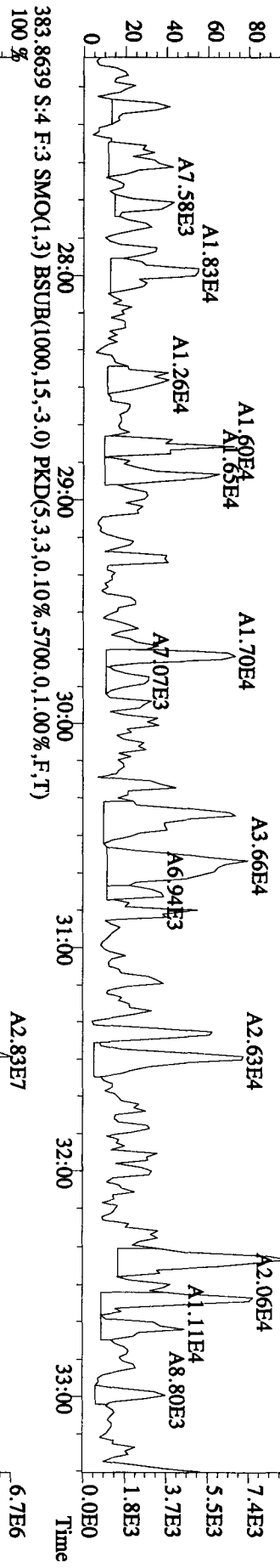
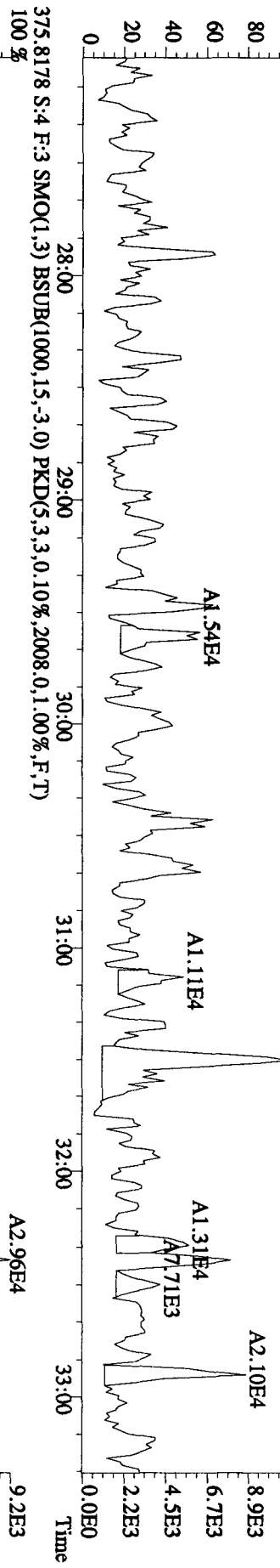


File:25AUI10A1D5 #1-414 Acq:25 AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE

Sample#4 Text:L518H-1-AA :G0H23000-312B Exp:DIOXINRES

355.8546 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3088,0.1,0.0%,F,T)

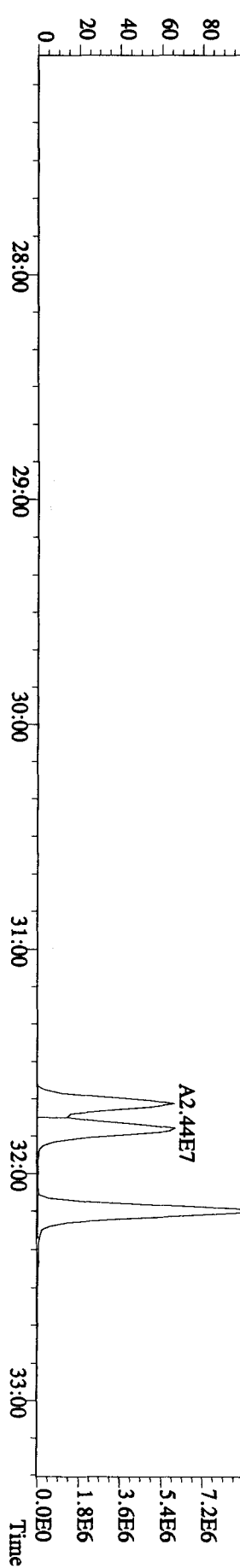
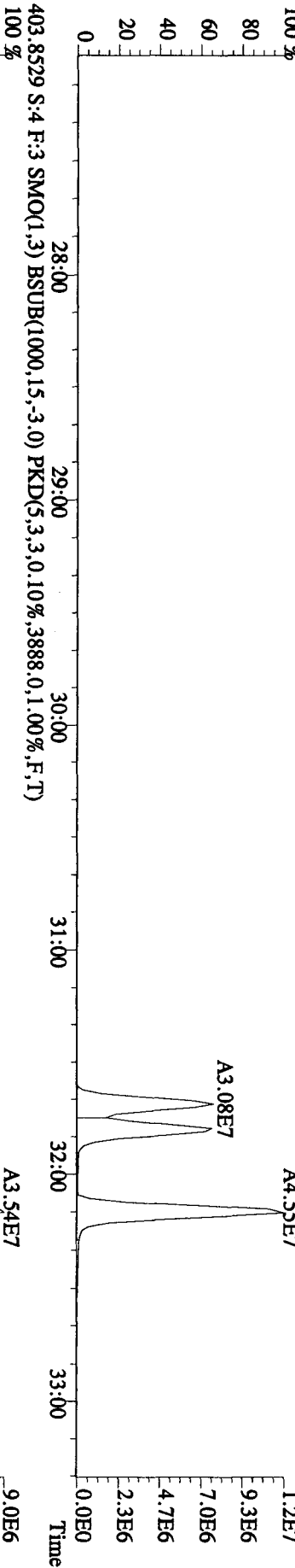
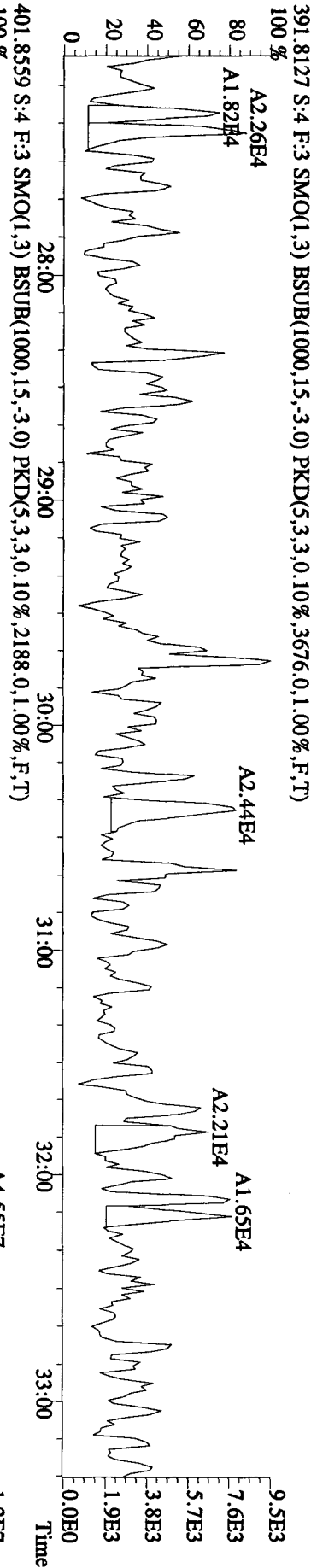
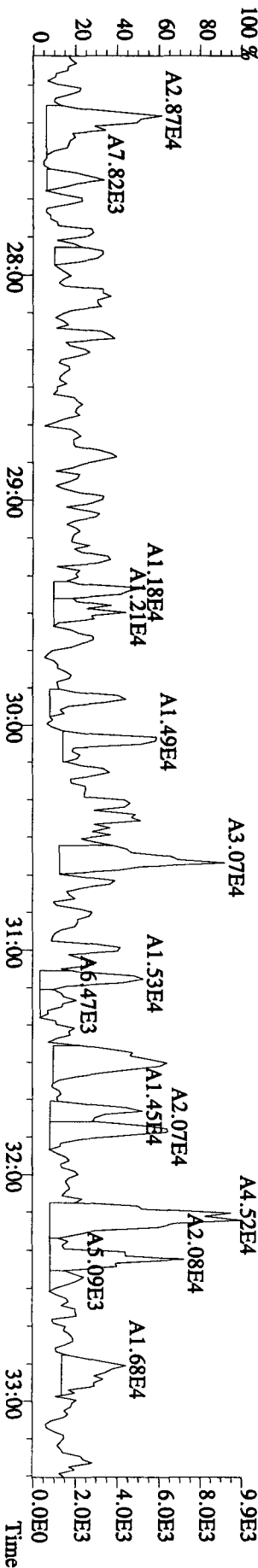


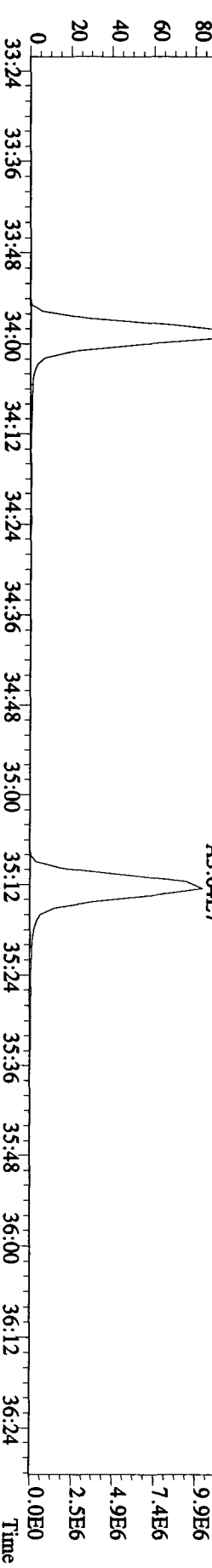
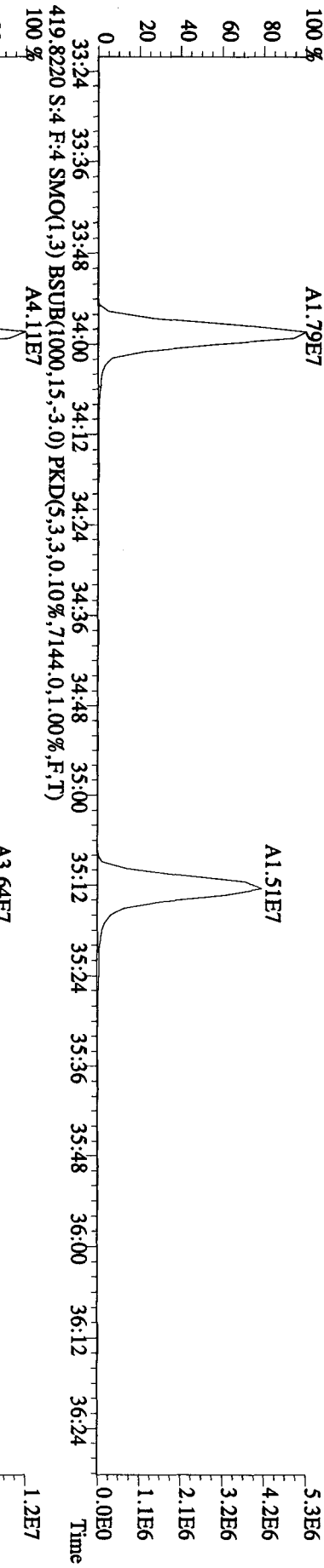
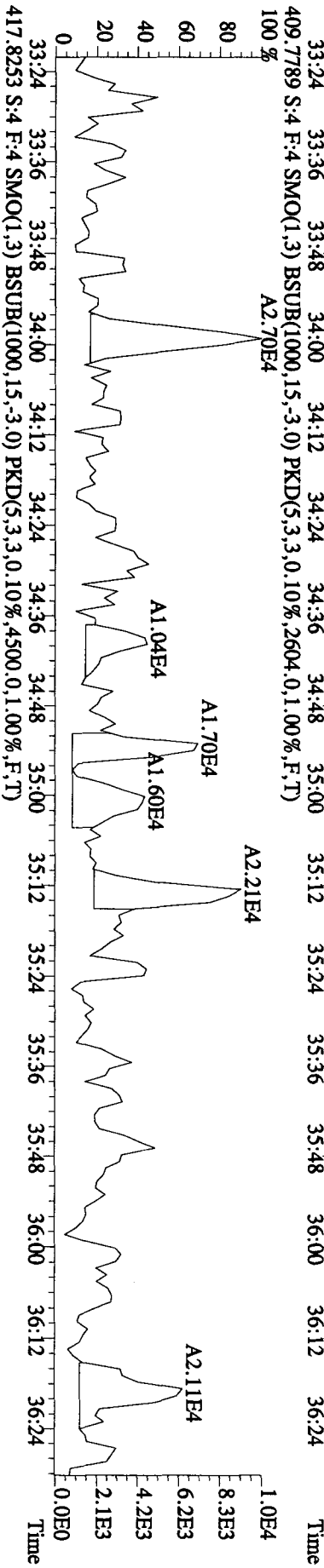
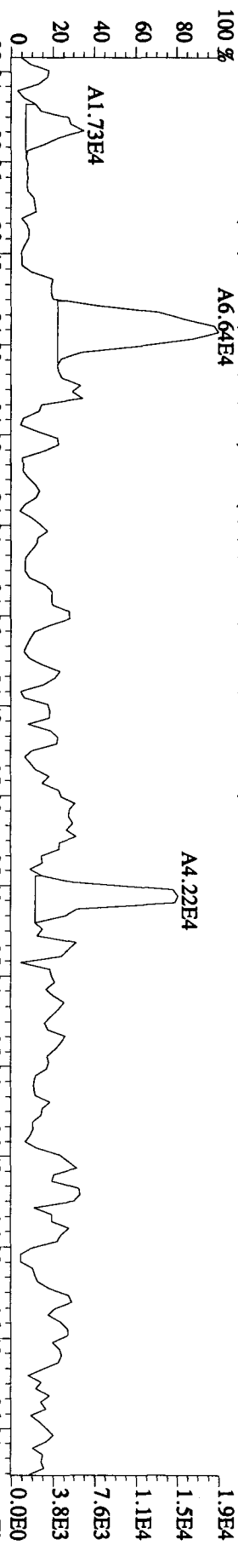


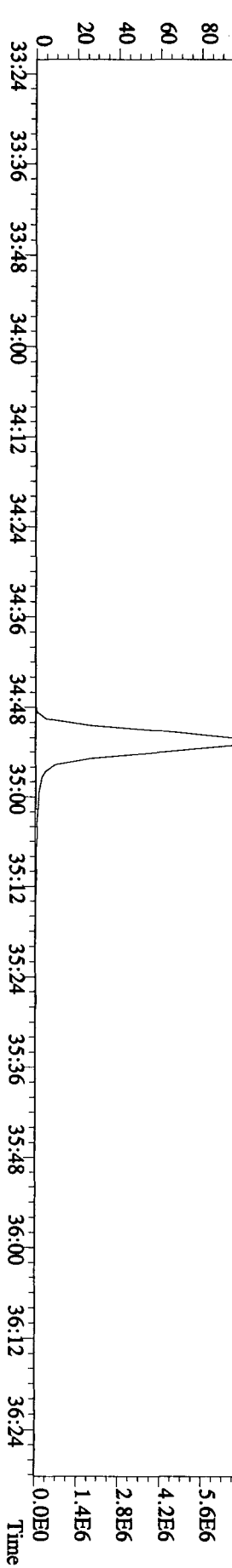
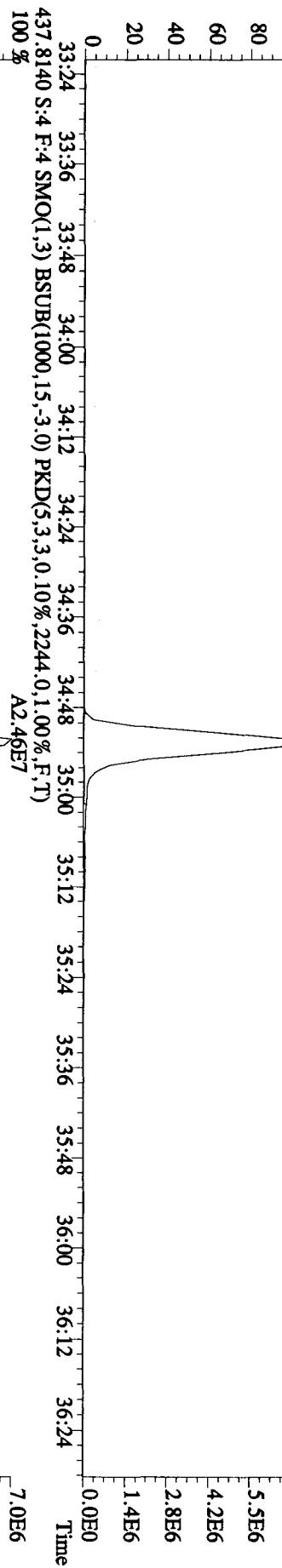
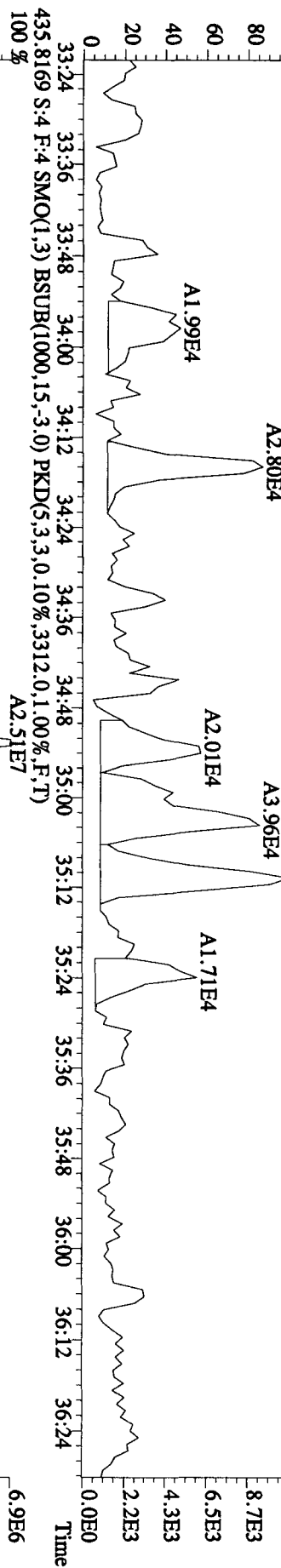
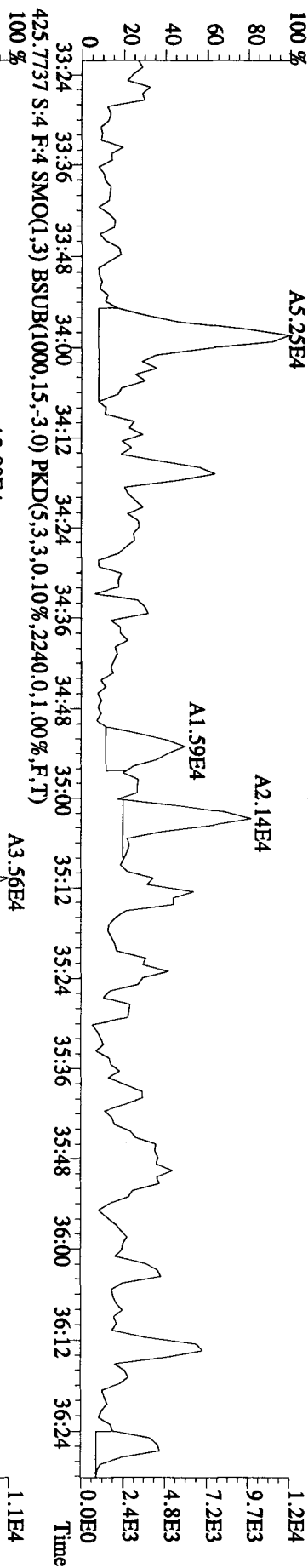
File:25AUI0A1D5 #1-406 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE

Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES

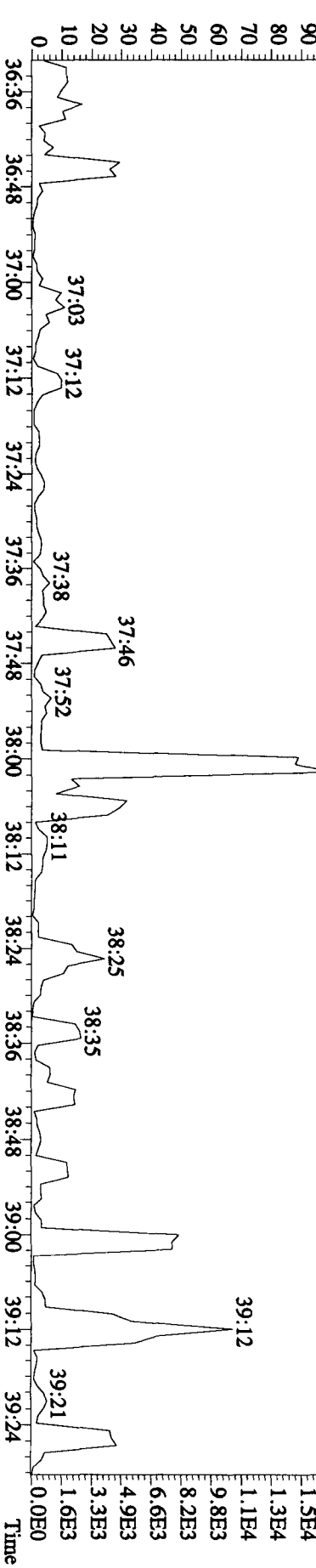
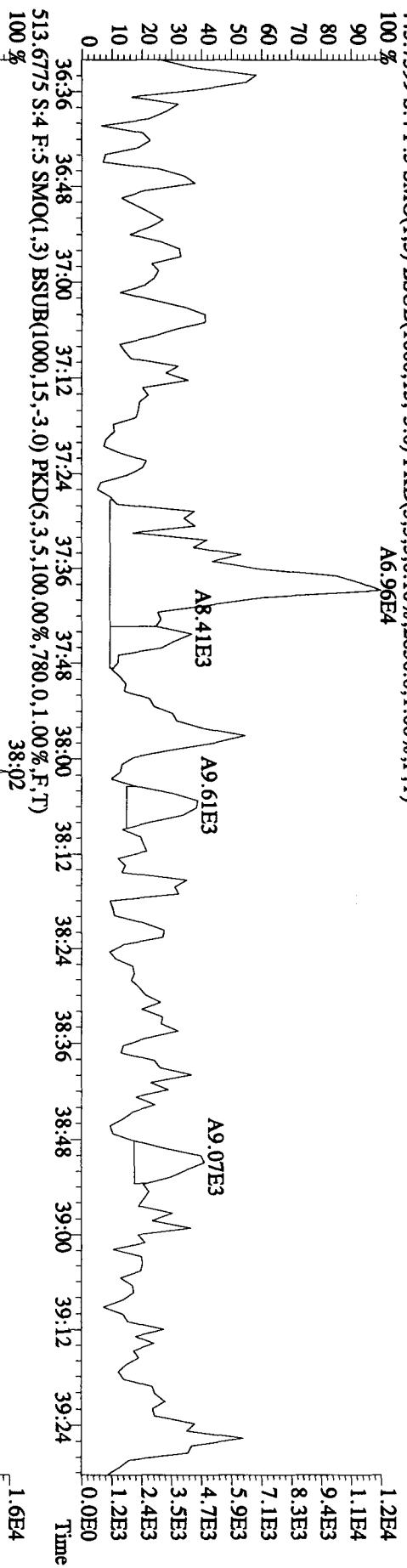
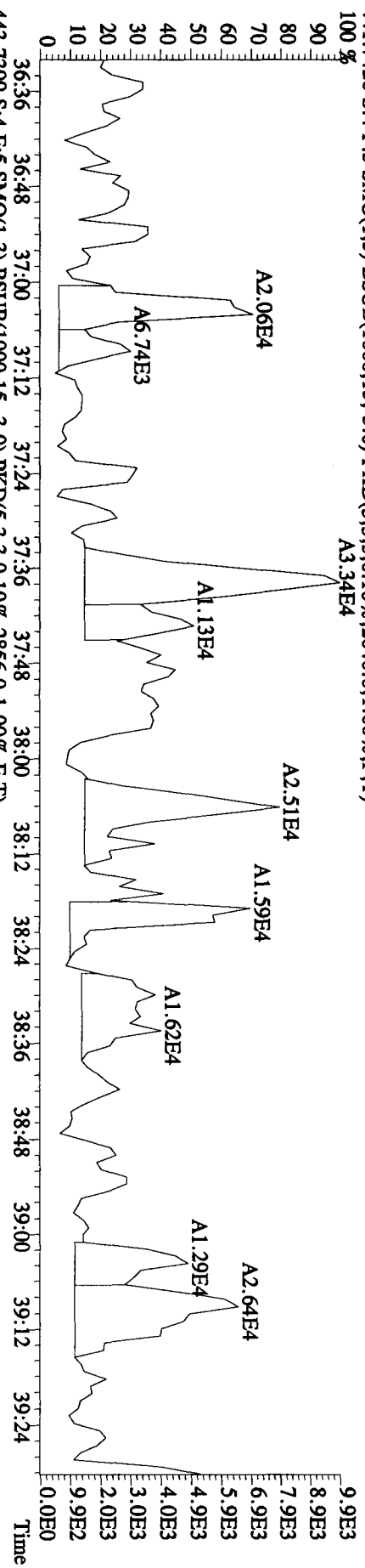
389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2132,0,1,00%,F,T)





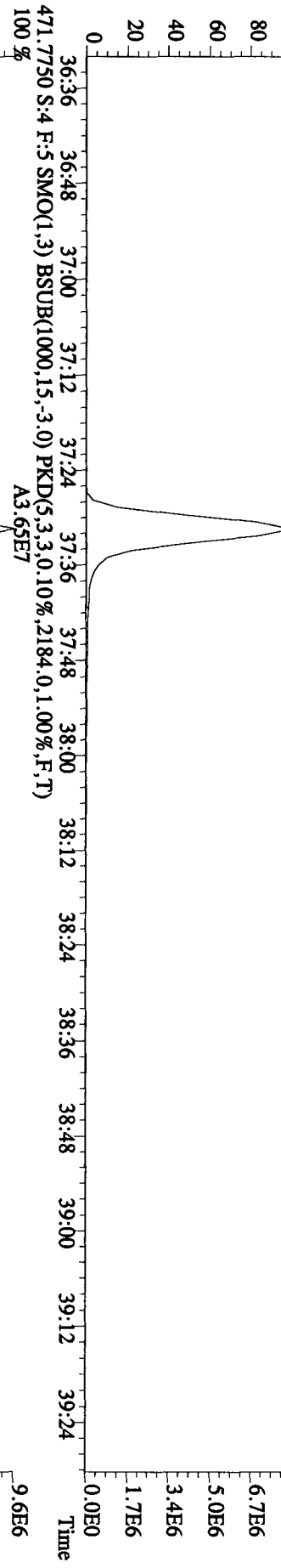
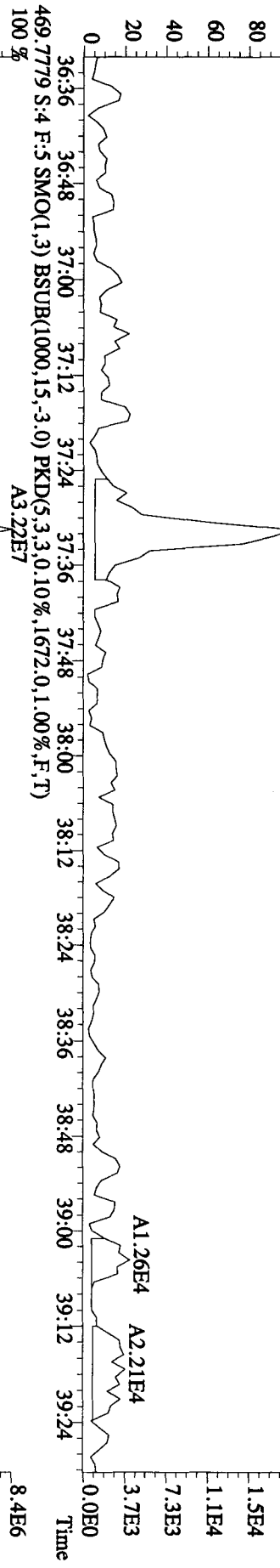
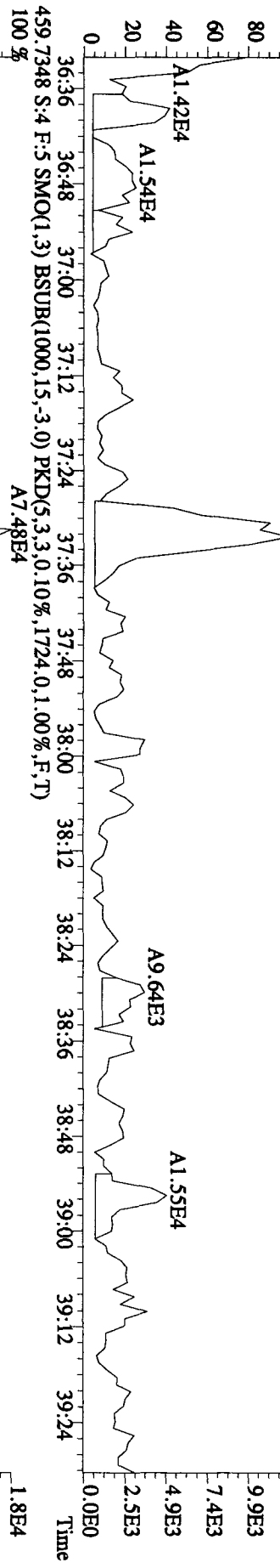


File:25AU10A1D5 #1-196 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
 441.7428 S:4 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2040,0.1,00%,F,T)  
 100 % A3.34E4



File:25AU10A1IDS #1-196 Acq:25-AUG-2010 23:56:42 GC EI + Voltage SIR 70SE

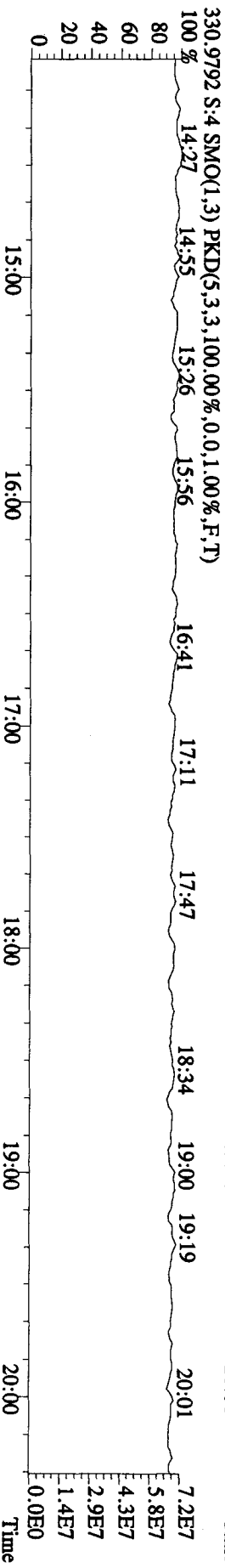
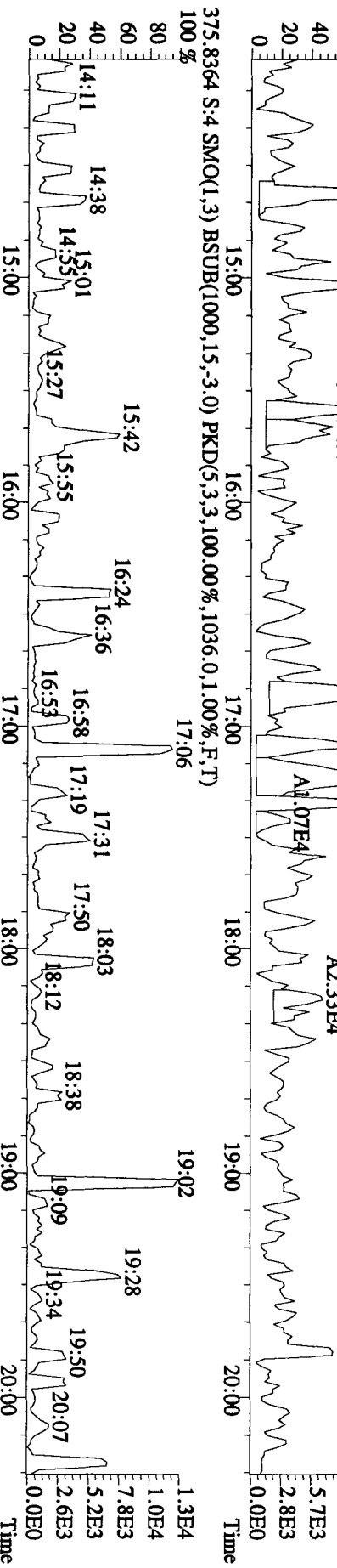
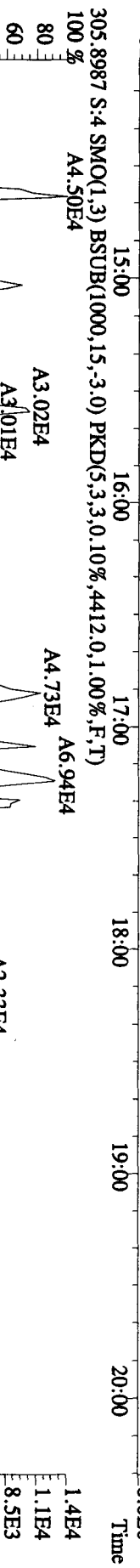
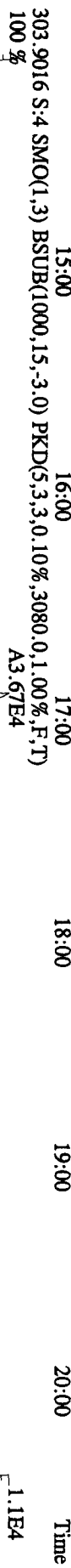
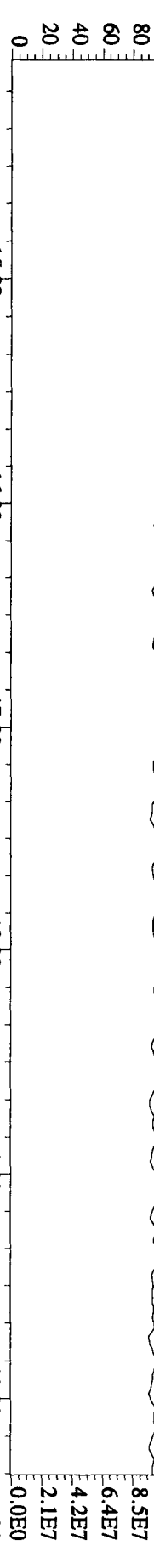
Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
457.7377 S:4 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2336,0,1.00%,F,T)  
100 % A5.81E4



File:25AUI0A1D5 #1-372 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE

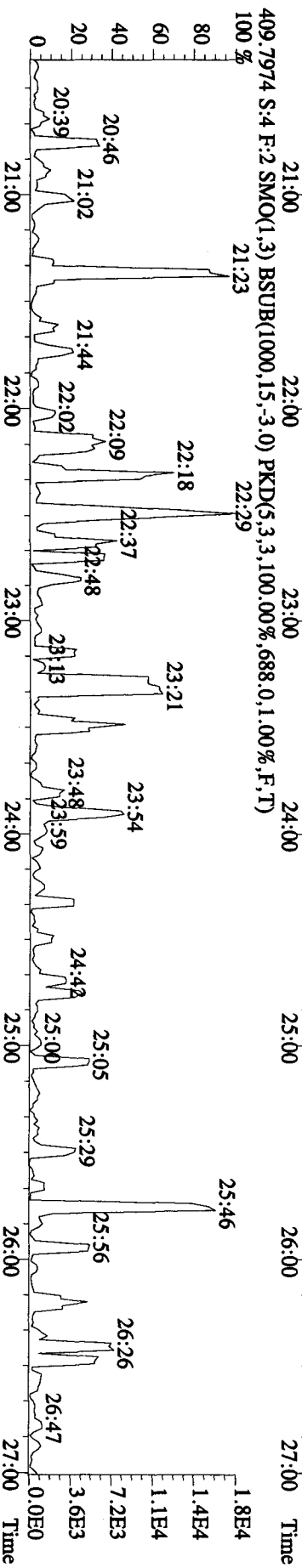
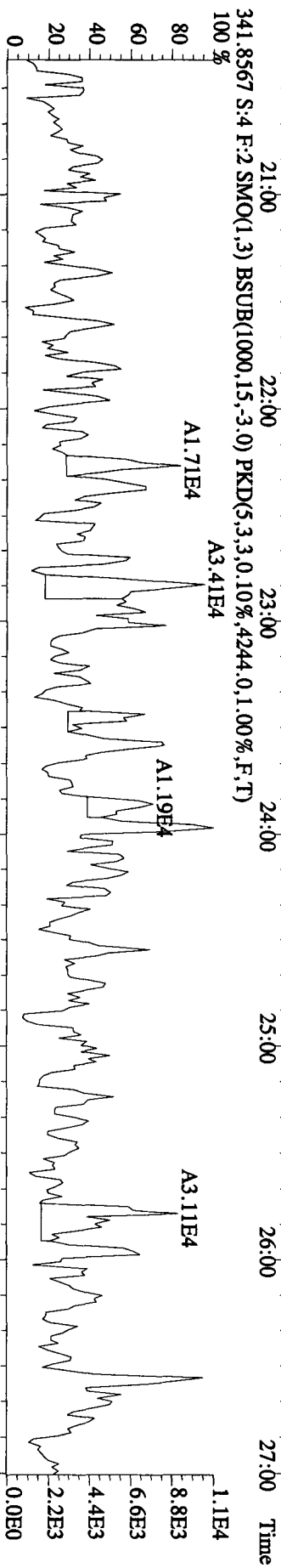
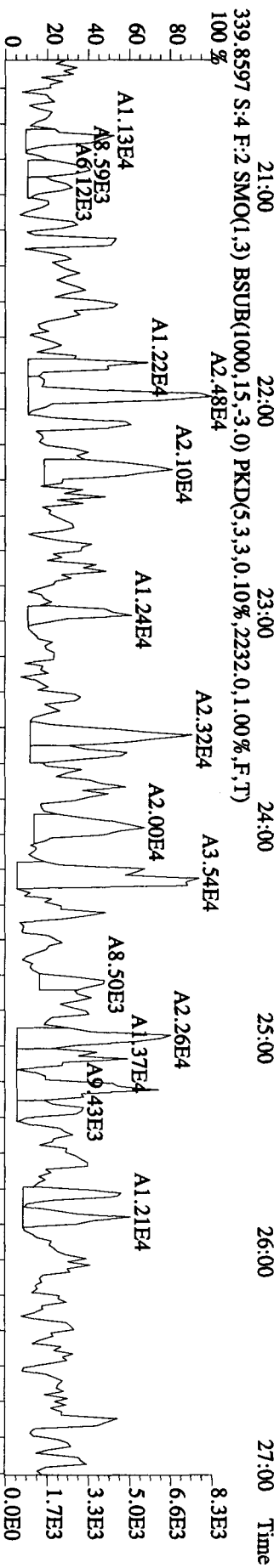
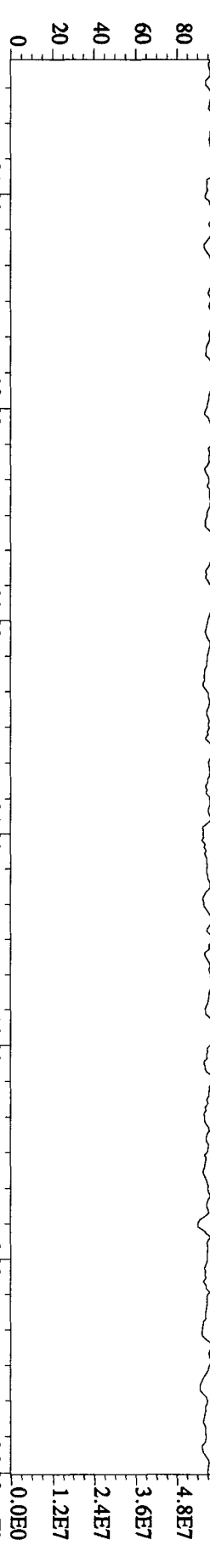
Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES

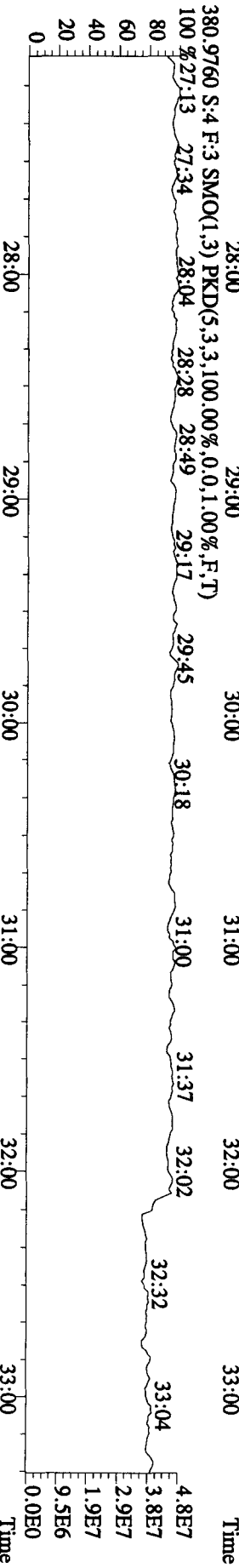
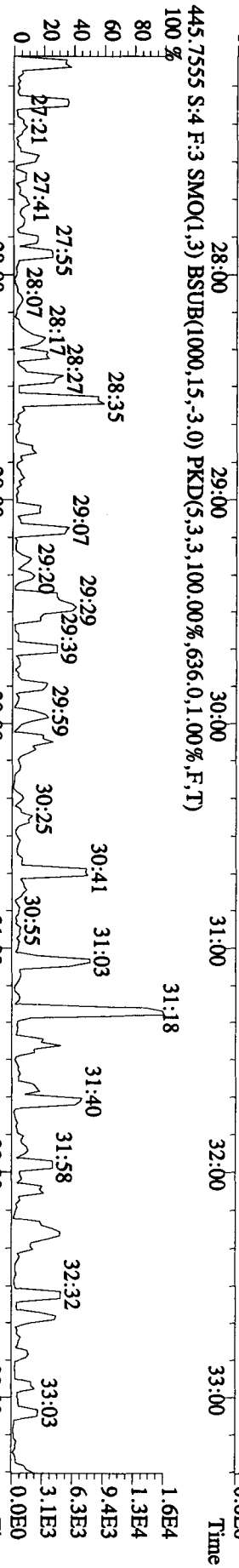
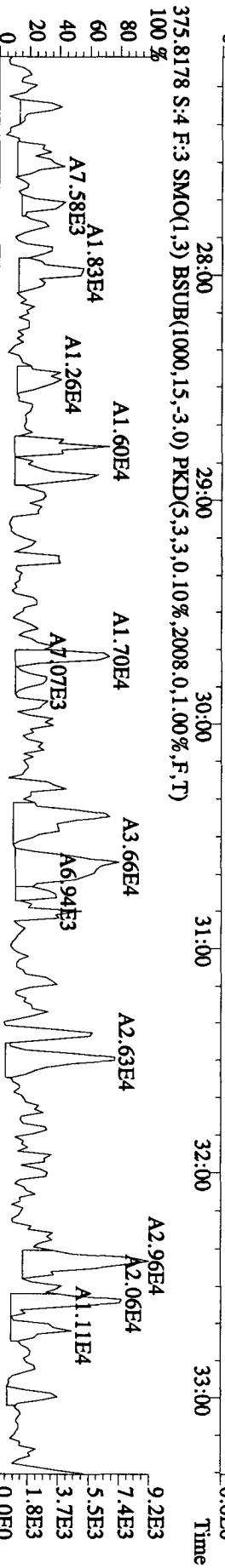
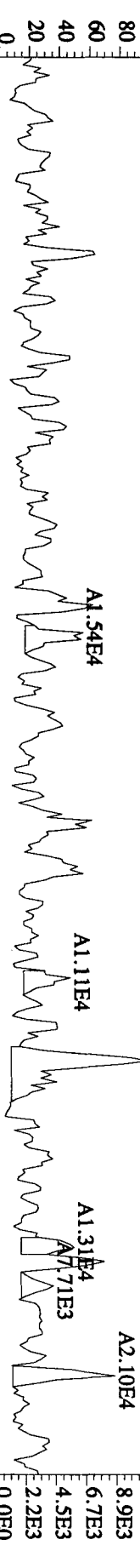
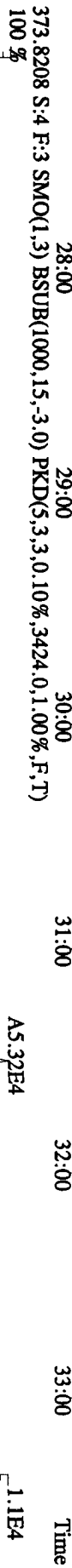
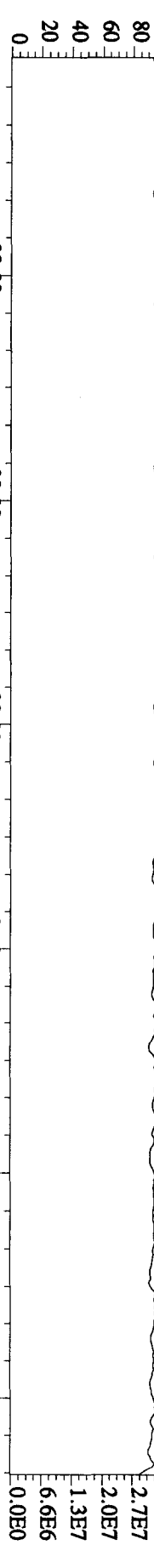
292.9825 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)





File:25AU10A1D5 #1-414 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE  
 Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES  
 342.9792 S:4 F:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)  
 100 %20:32 20:52 21:21 21:50 22:37 23:07 23:36 24:25 25:10 25:54 26:25 26:50

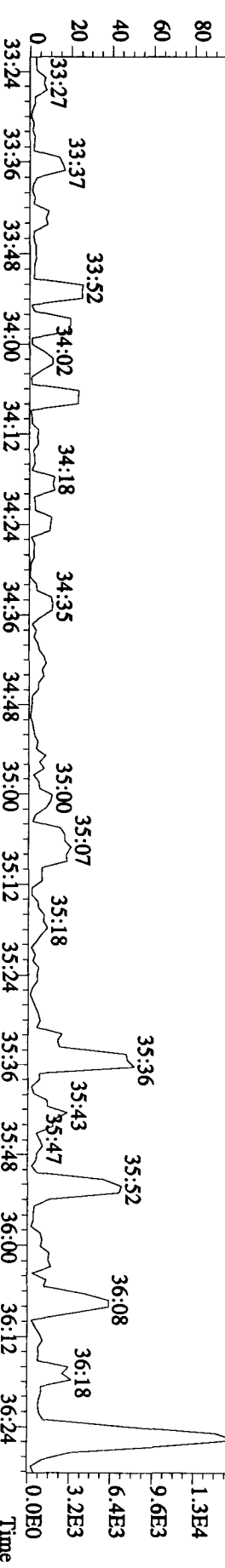
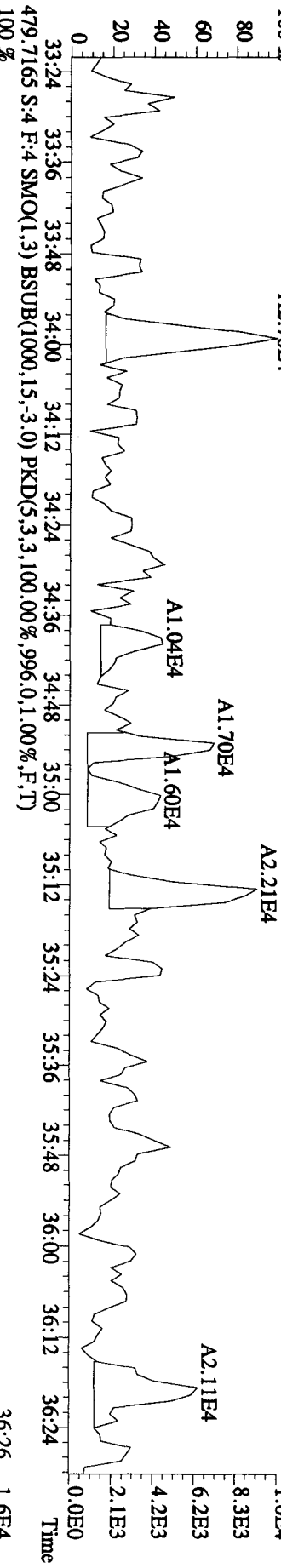
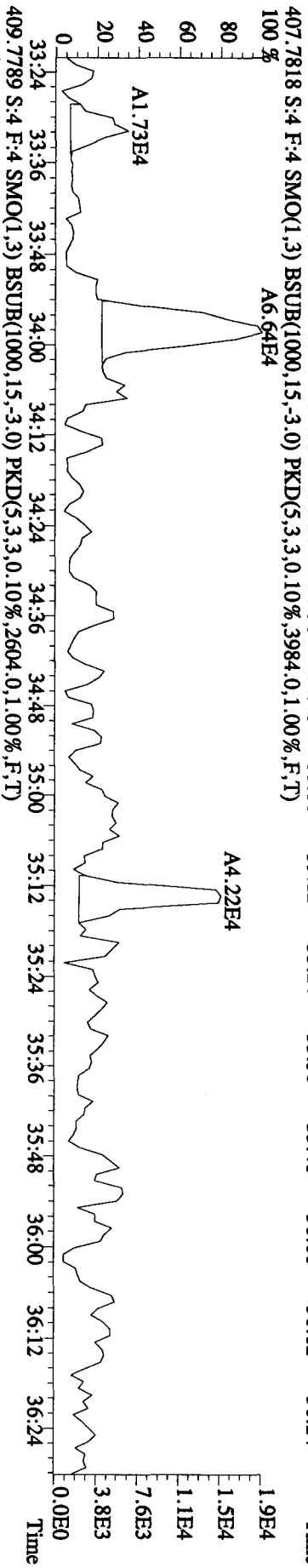
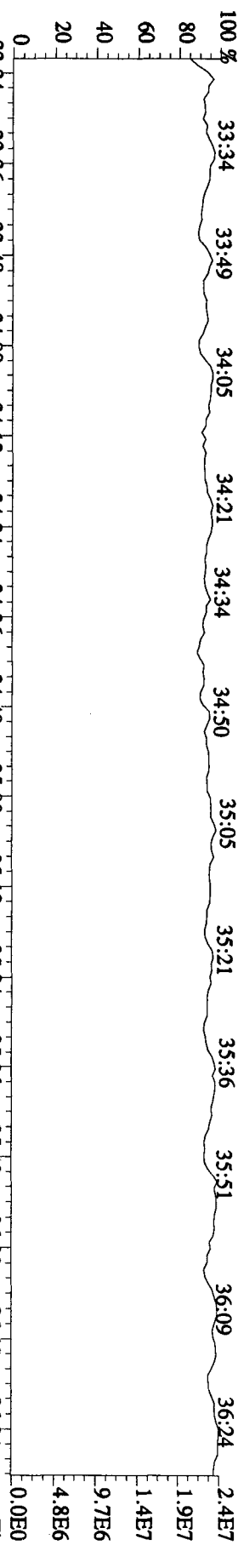




File:25AU10A1D5 #1-214 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE

Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES

430.9728 S:4 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

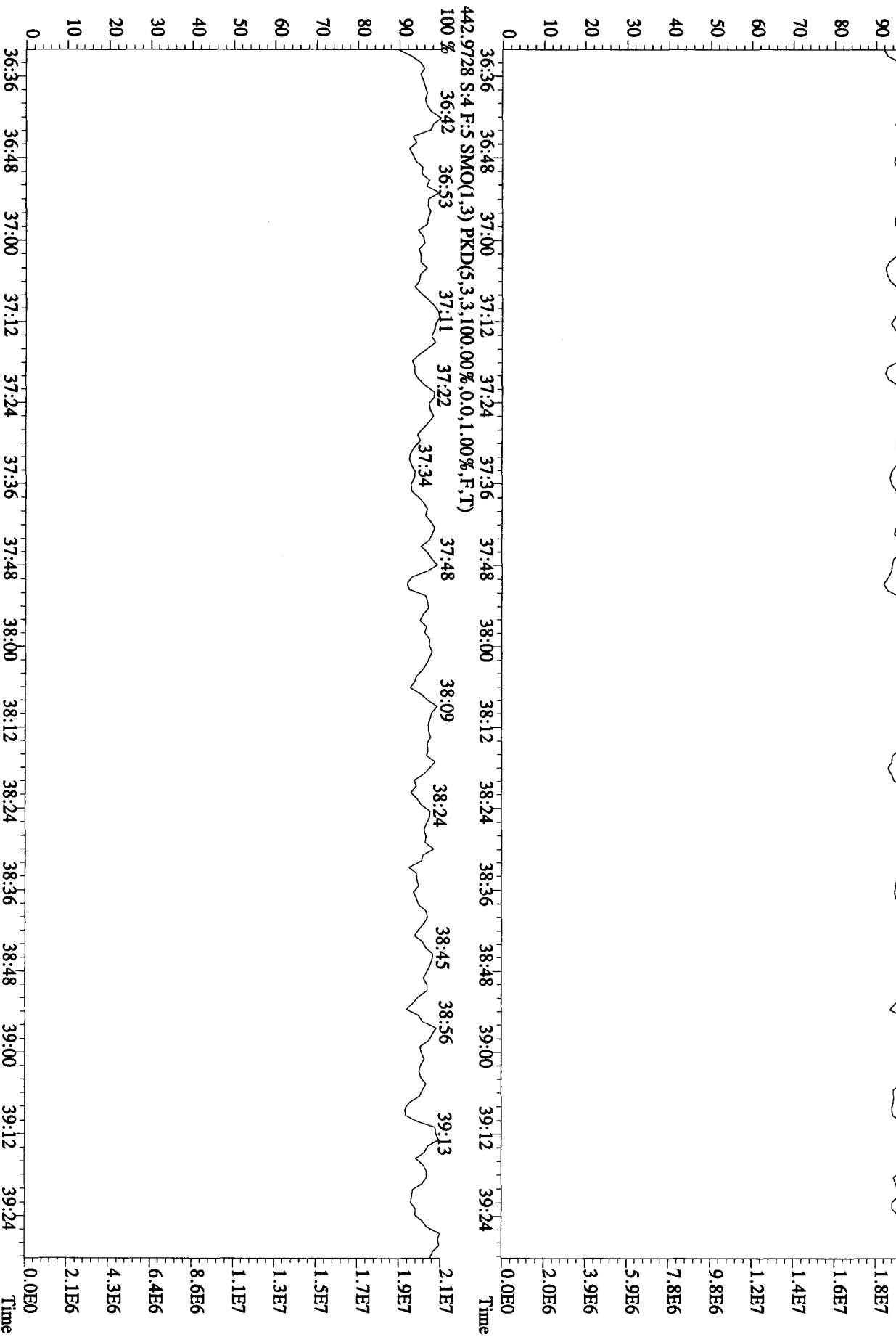


File:25AU10A1D5 #1-196 Acq:25-AUG-2010 23:56:42 GC EI+ Voltage SIR 70SE

Sample#4 Text:L518H-1-AA :G0H230000-312B Exp:DIOXINRES

454.9728 S:4 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

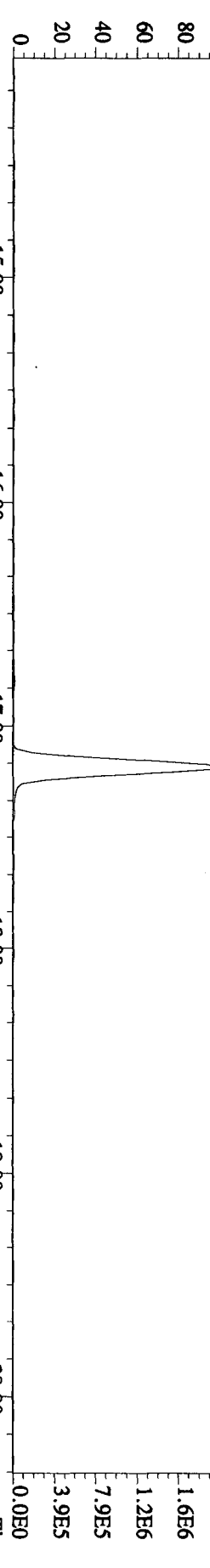
100 %36:37 36:46 37:00 37:16 37:28 37:39 37:54 38:09 38:28 38:44 38:56 39:12 39:21 39:27



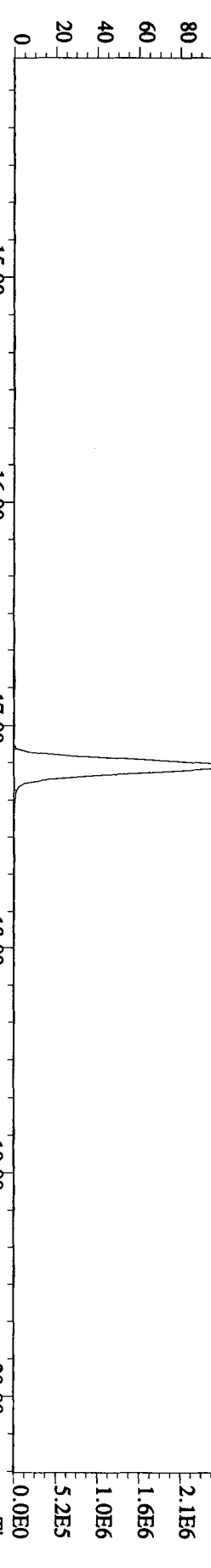
File:25AU10A1D5 #1-372 Acq:26-AUG-2010 07:16:13 GC EI + Voltage SIR 70SE

Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES

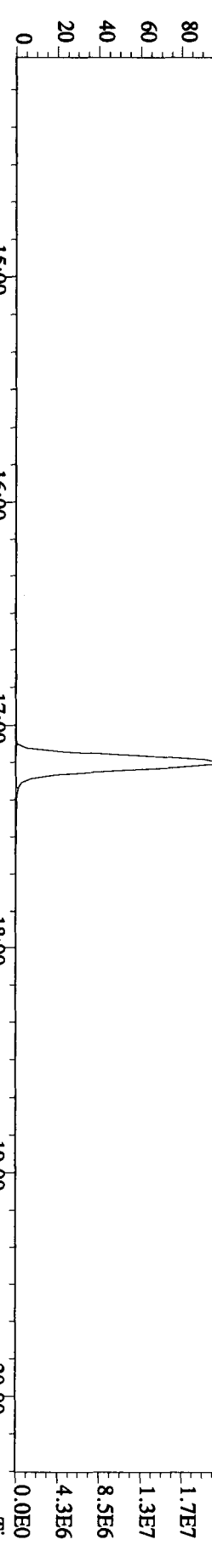
303.9016 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2540,0,1.00%,F,T) A8.72E6



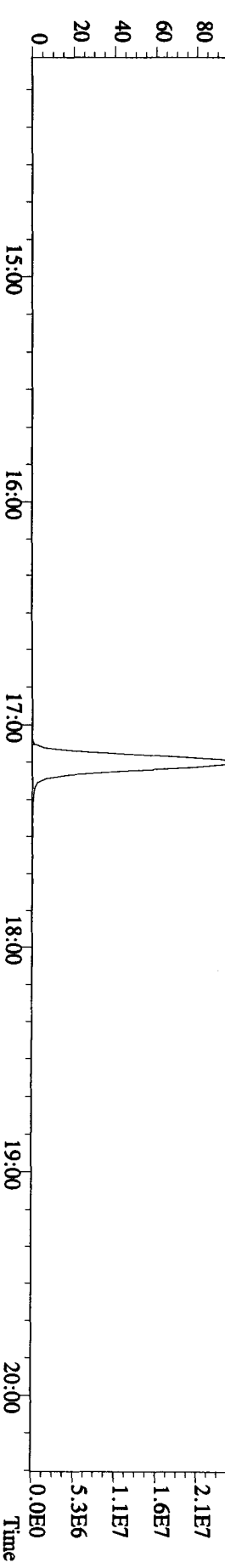
305.8987 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3276,0,1.00%,F,T) A1.15E7



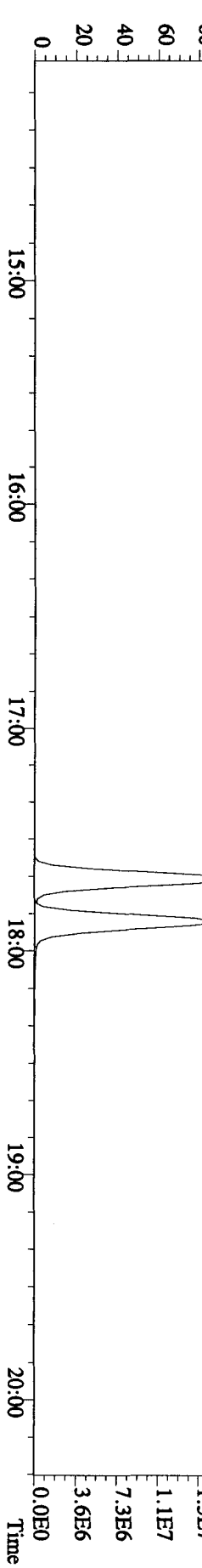
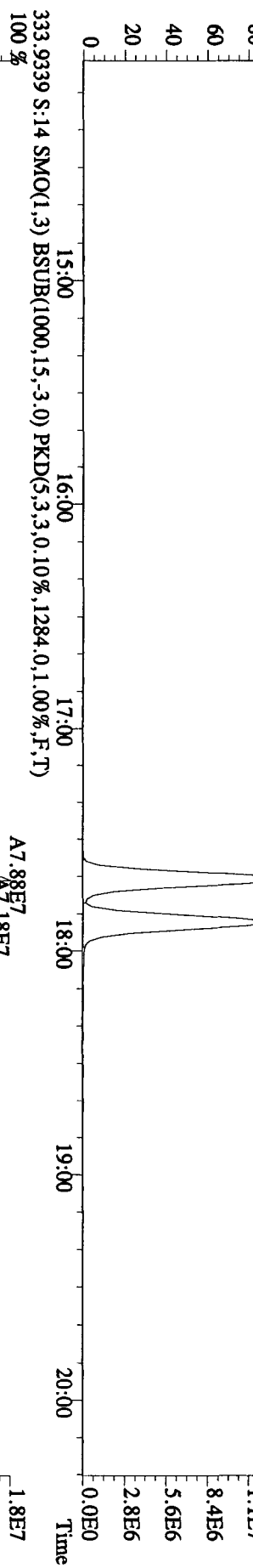
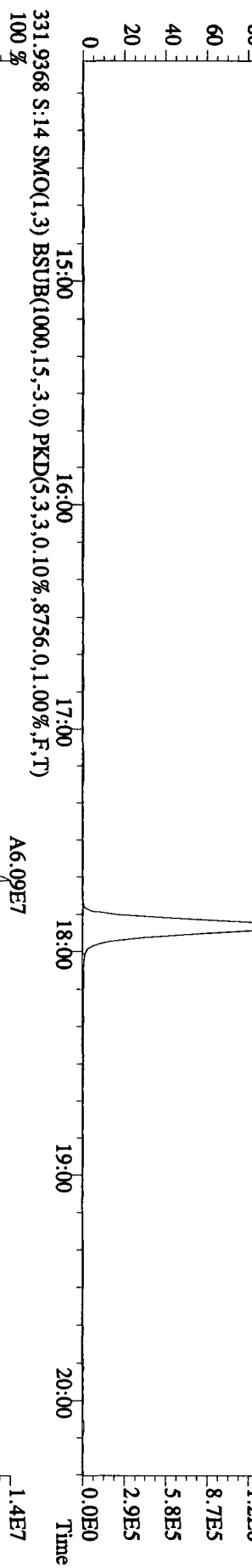
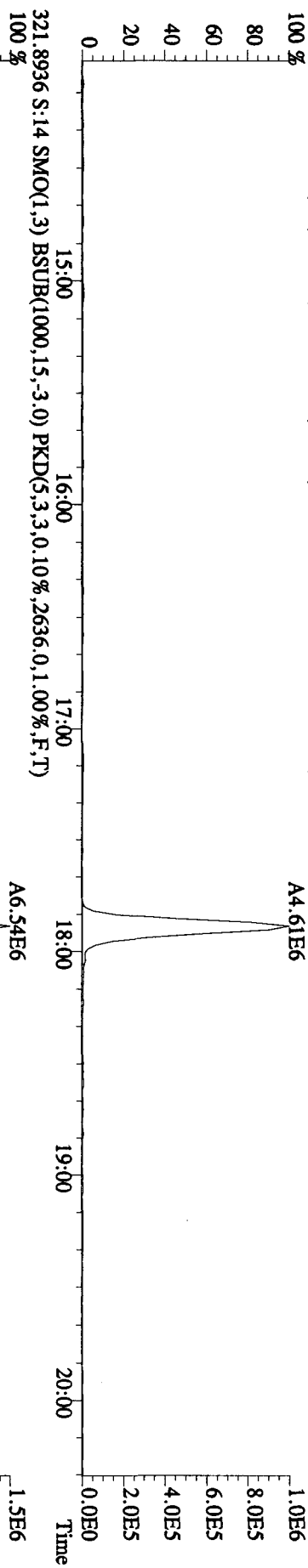
315.9419 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2172,0,1.00%,F,T) A9.19E7



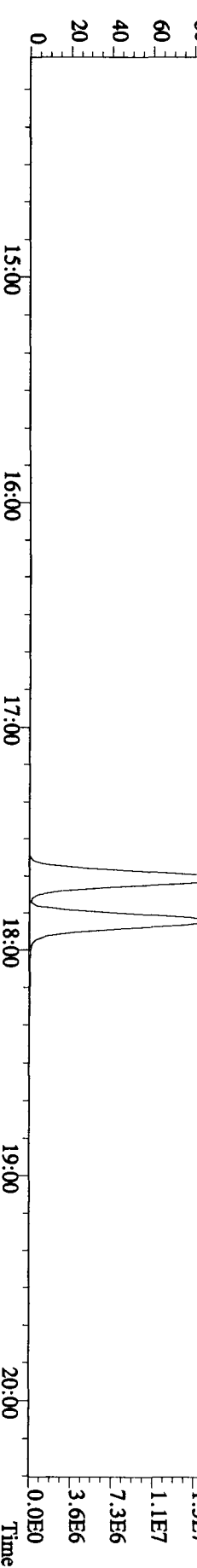
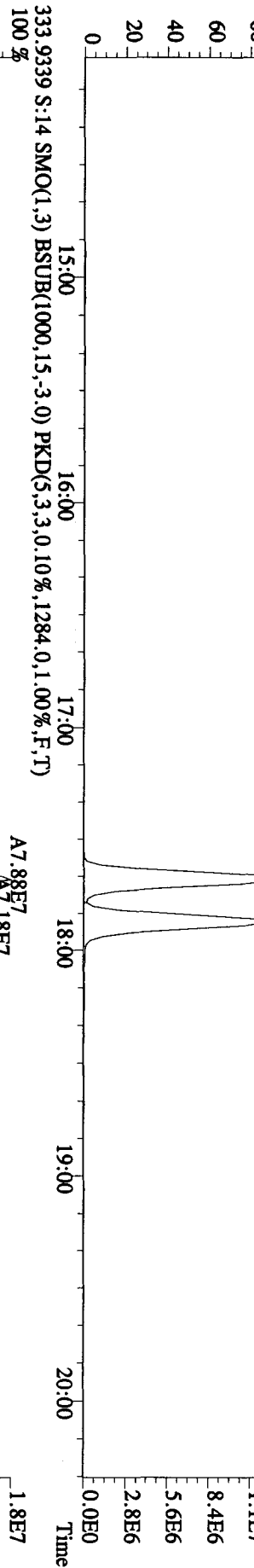
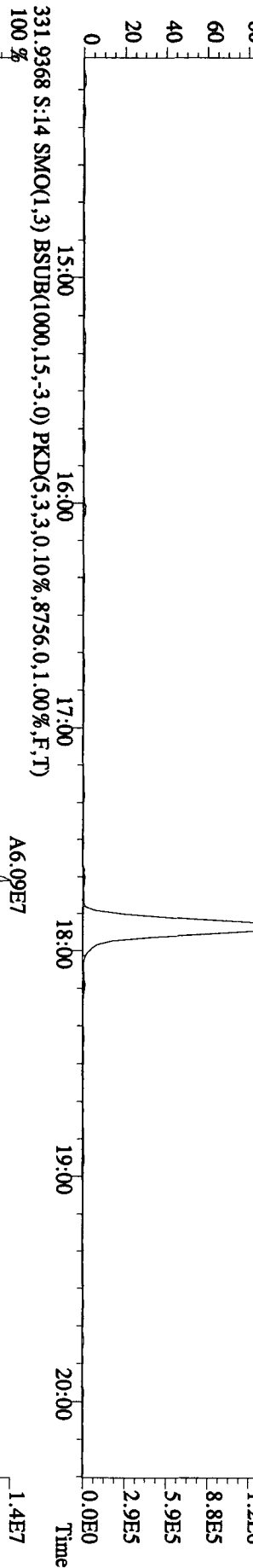
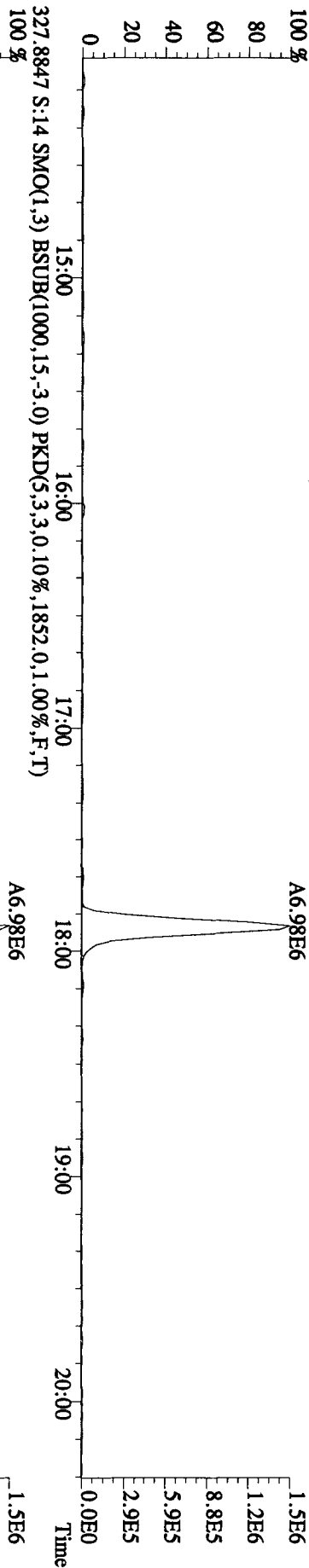
317.9389 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2872,0,1.00%,F,T) A1.14E8



File:25AU10A1D5 #1-372 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE  
 Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES  
 319.8965 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2504,0,1,00%,F,T)  
 100 %



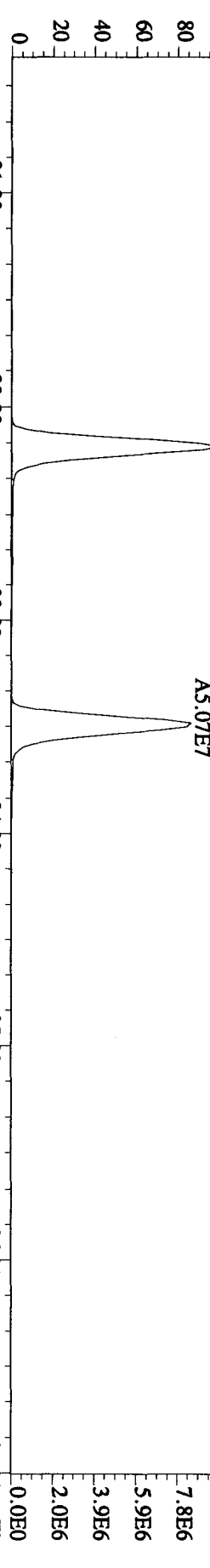
File:25AUI0A1D5 #1-372 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE  
 Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES  
 327.8847 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1852.0,1.00%,F,T)  
 100 %



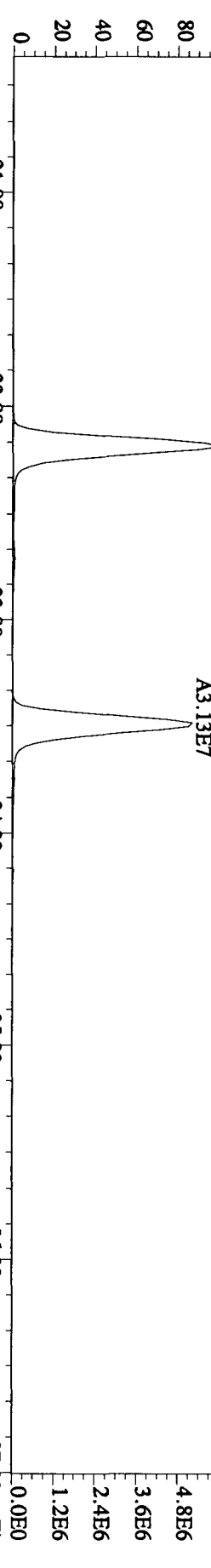
File:25AU10A1D5 #1-414 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE

Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES

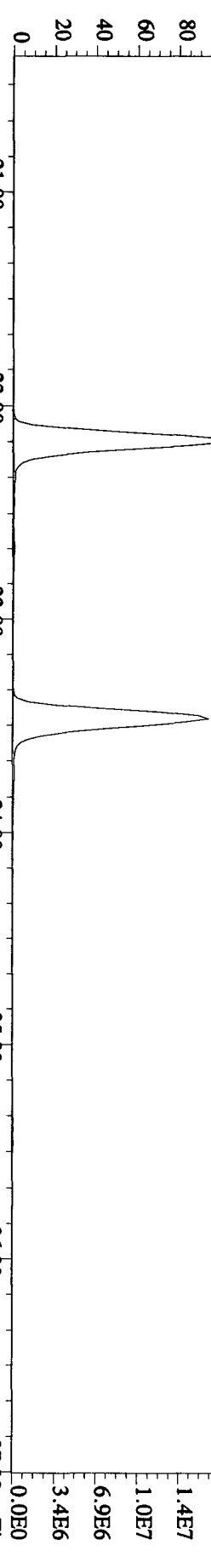
339.8597 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3864,0,1,00%,F,T) 100%



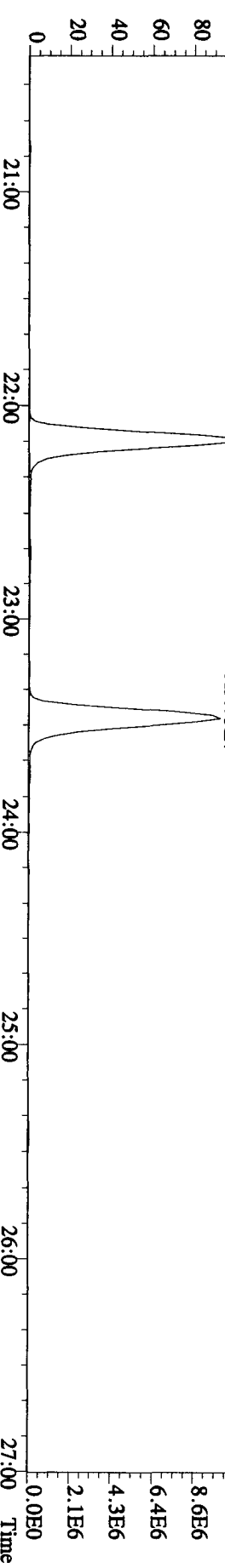
341.8567 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3756,0,1,00%,F,T) 100%



351.9000 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3196,0,1,00%,F,T) 100%

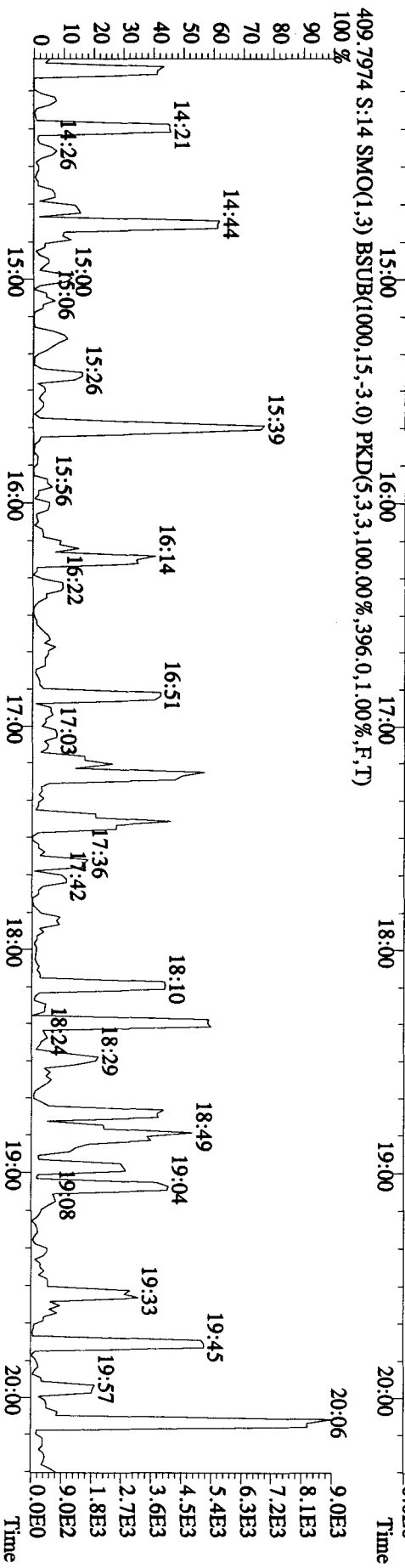
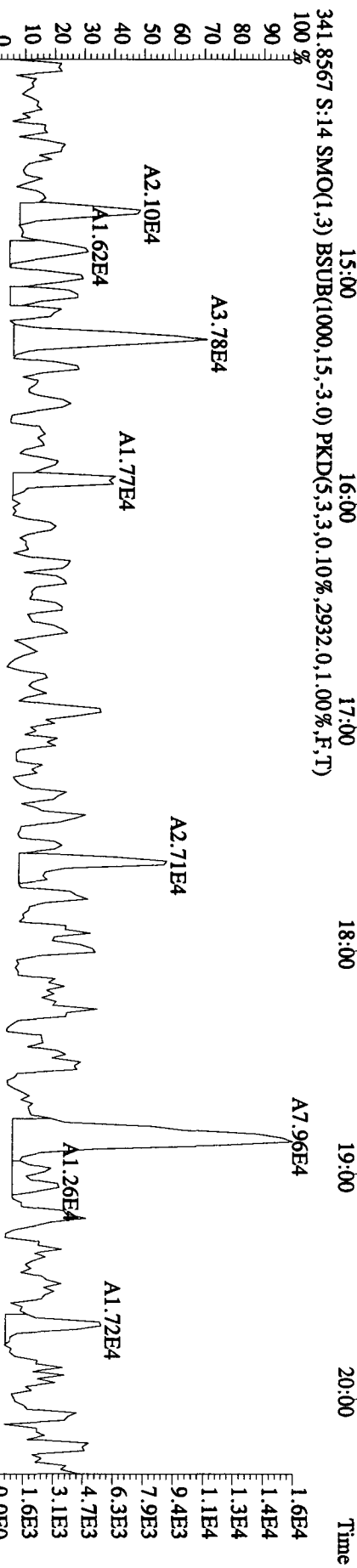
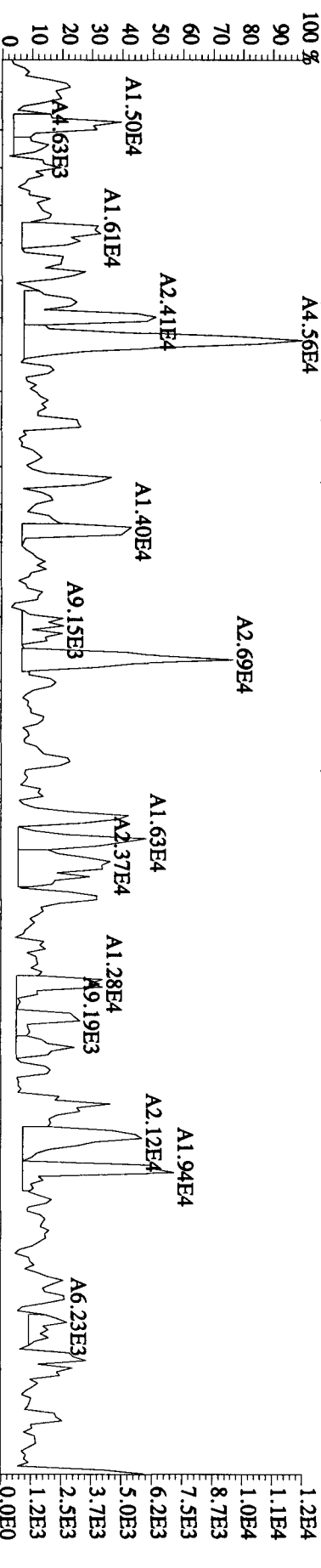


353.8970 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3516,0,1,00%,F,T) 100%

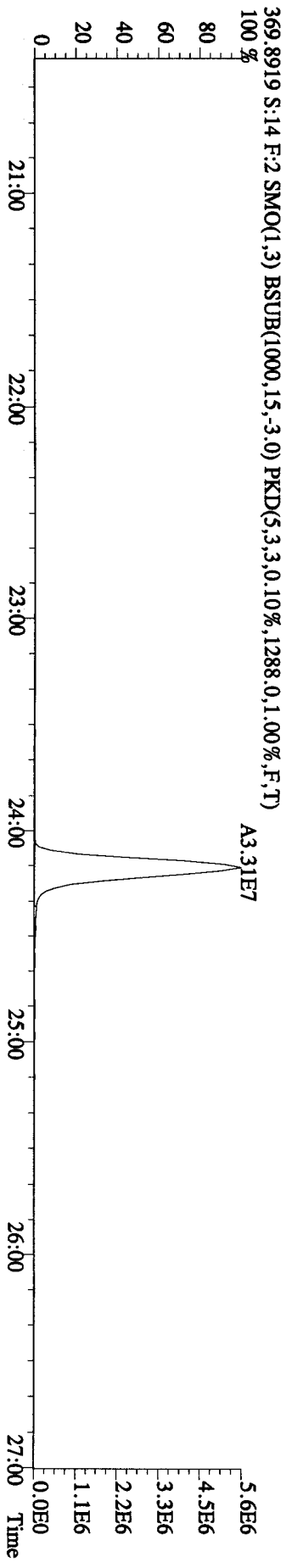
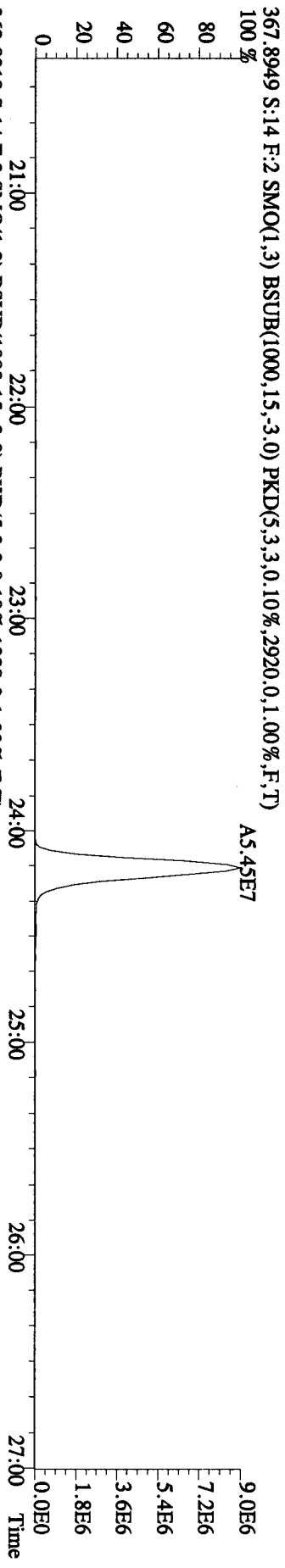
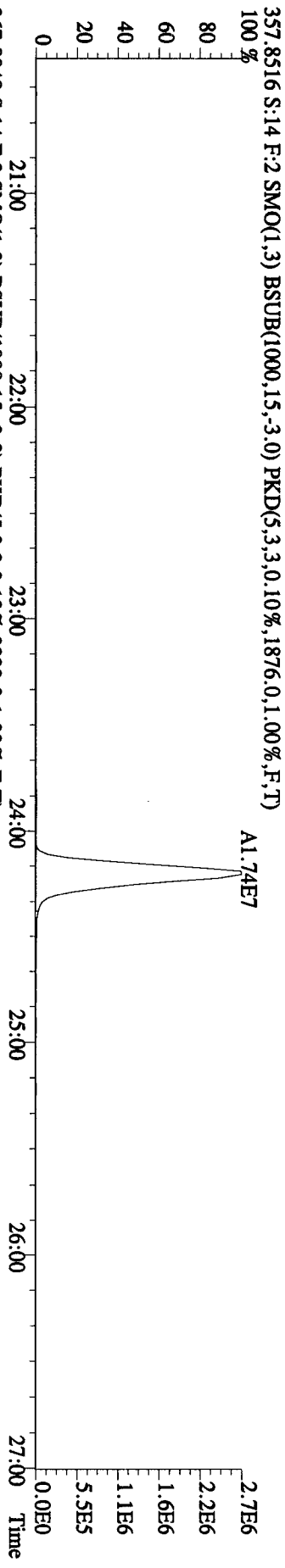
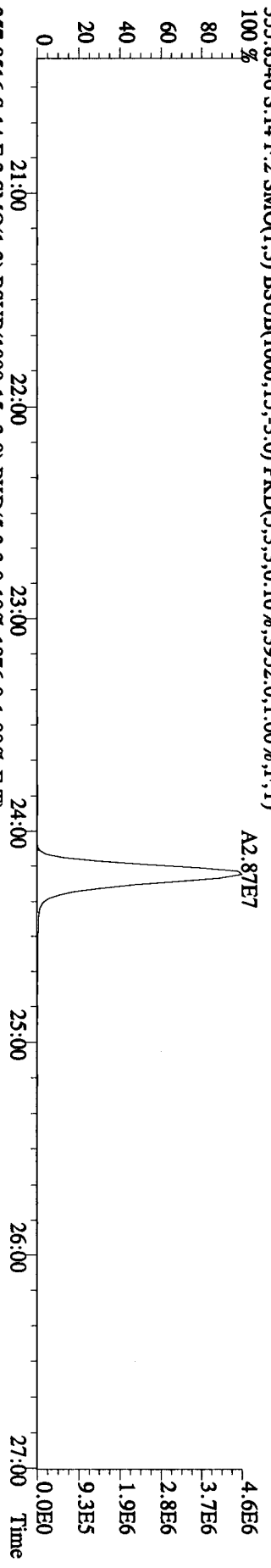


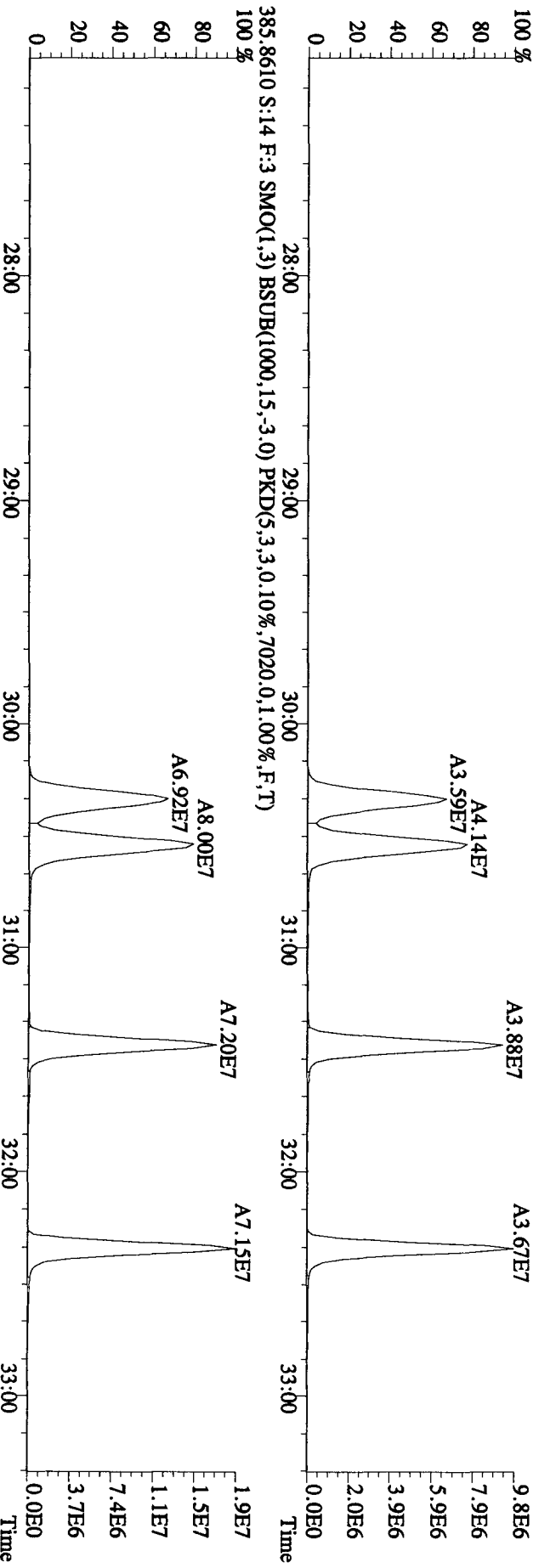
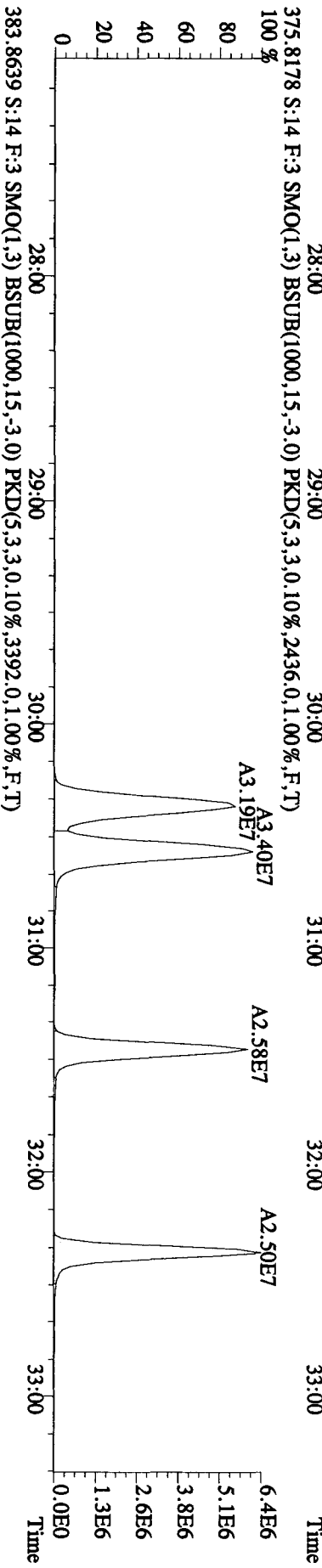
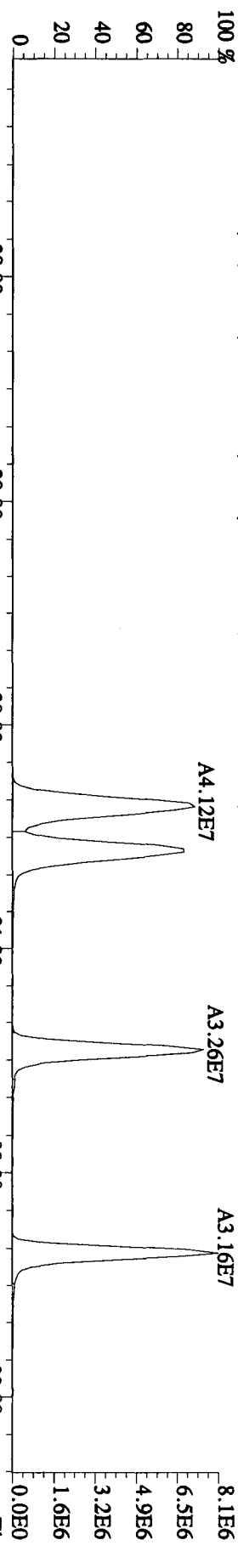


File:25AU10A1D5 #1-372 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE  
 Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES  
 339.8597 S:14 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1844,0,1.00%,F,T)  
 100%

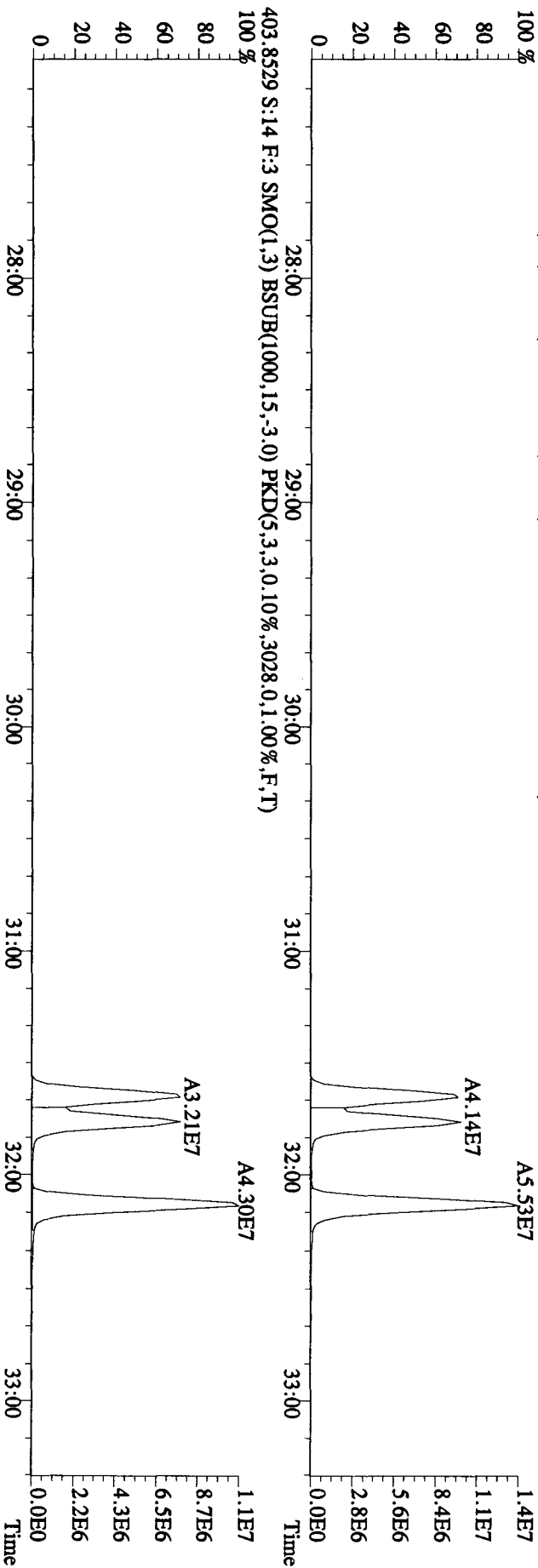
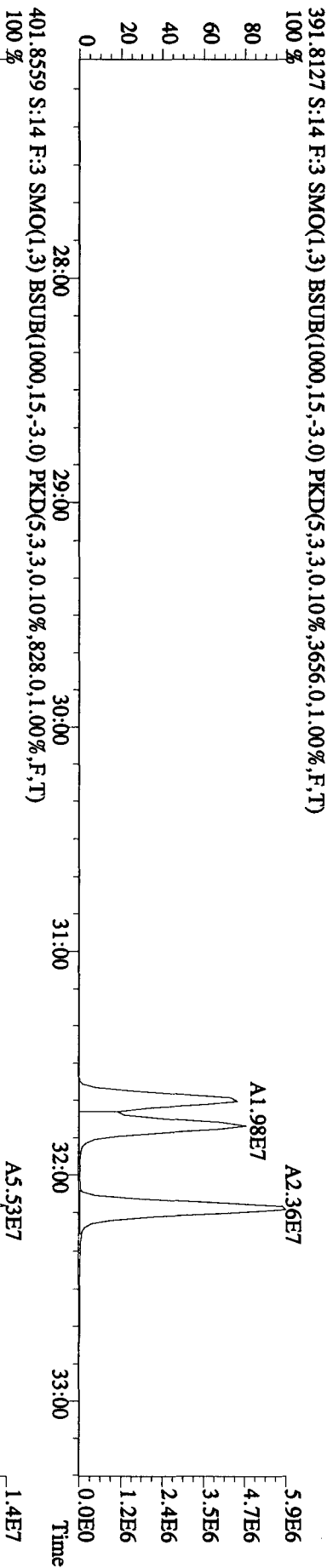
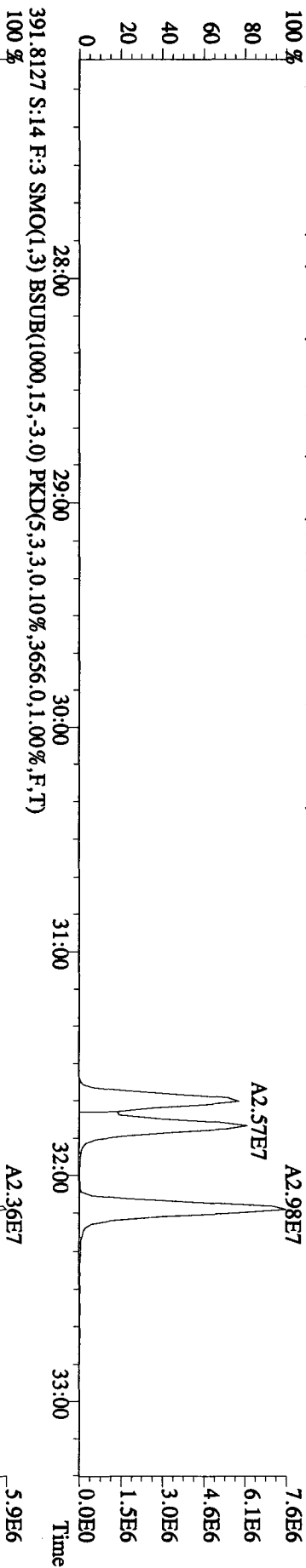


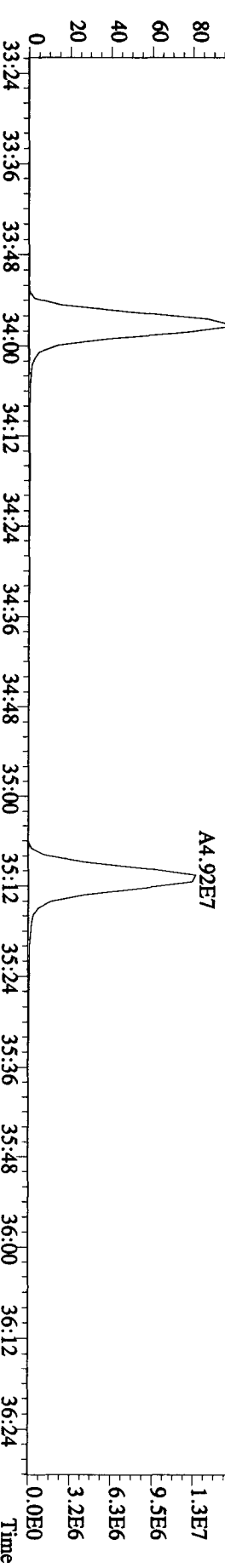
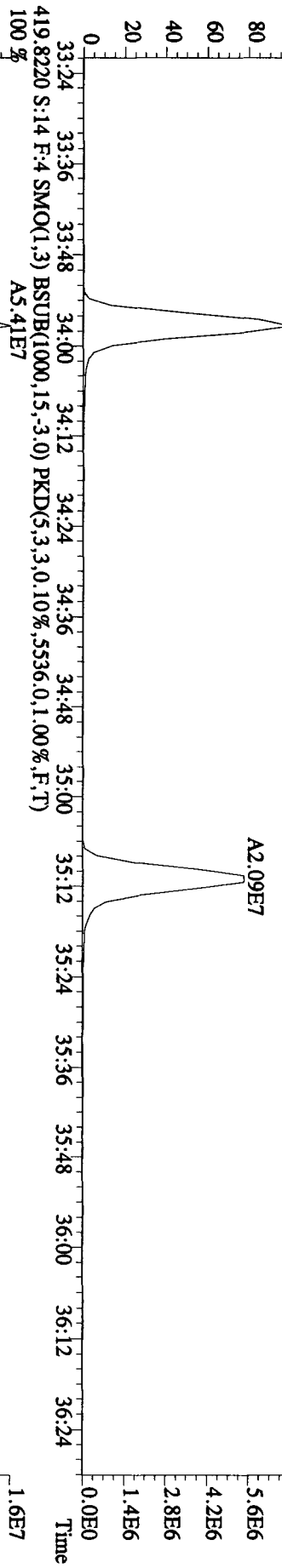
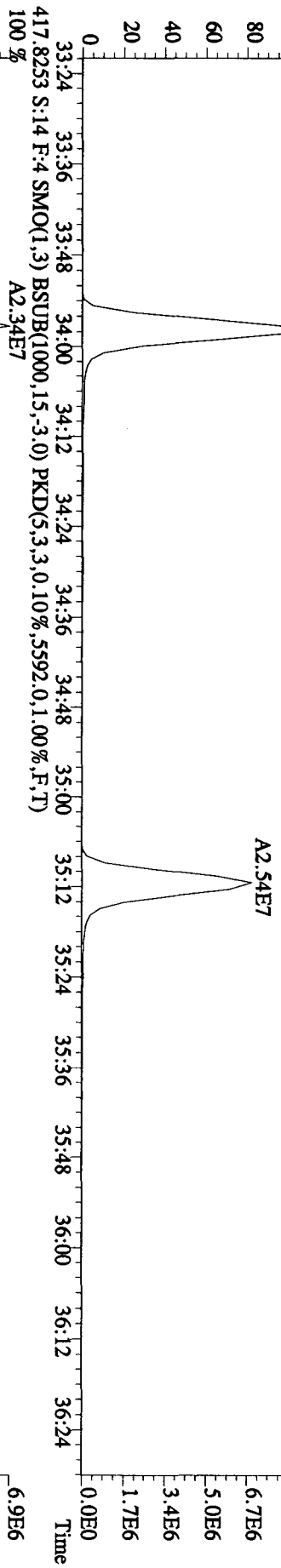
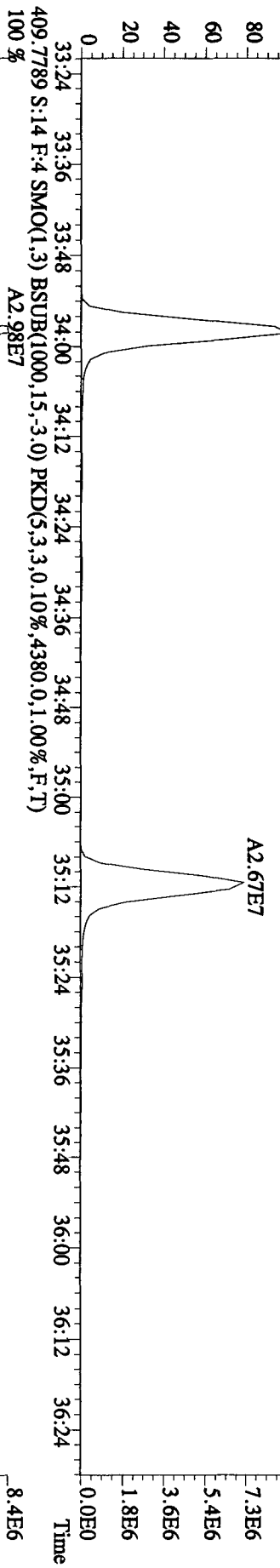
File:25AUI0A1D5 #1-414 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE  
 Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES  
 355.8546 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3952,0.1,0.00%,F,T) 100%





File:25AUI0A1D5 #1-406 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE  
 Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES  
 389 8157 S:14 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2836,0,1,00%,F,T)  
 100 %





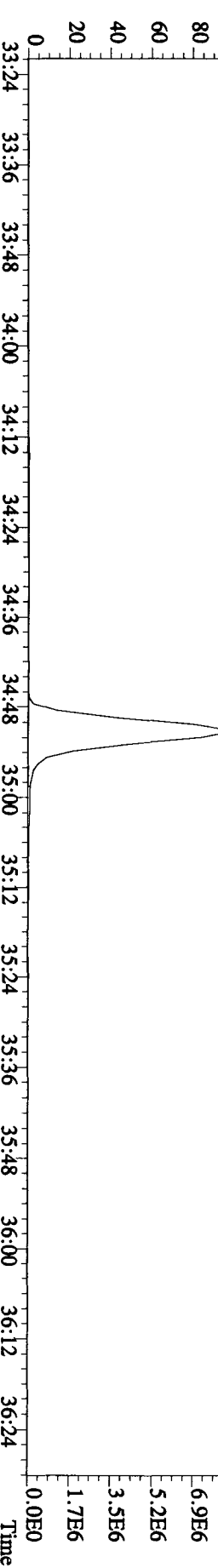
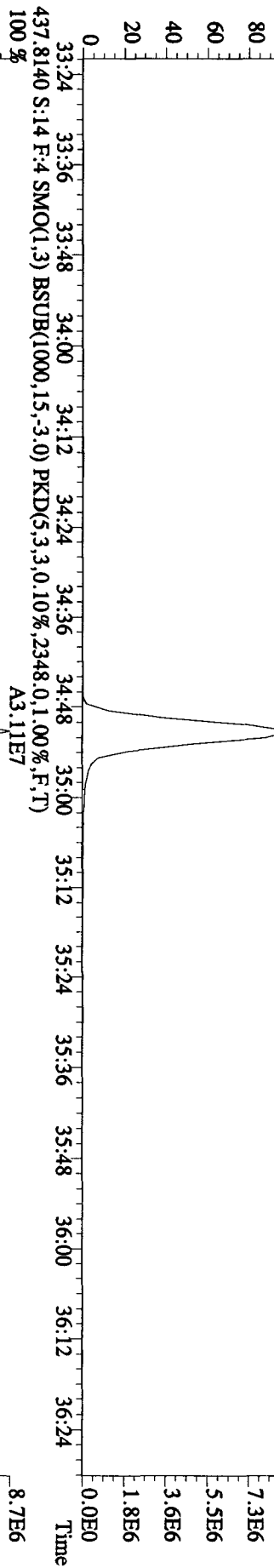
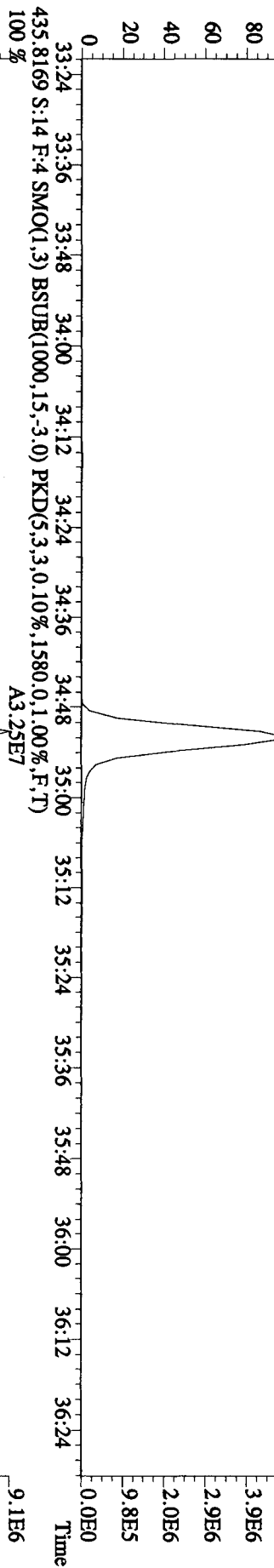
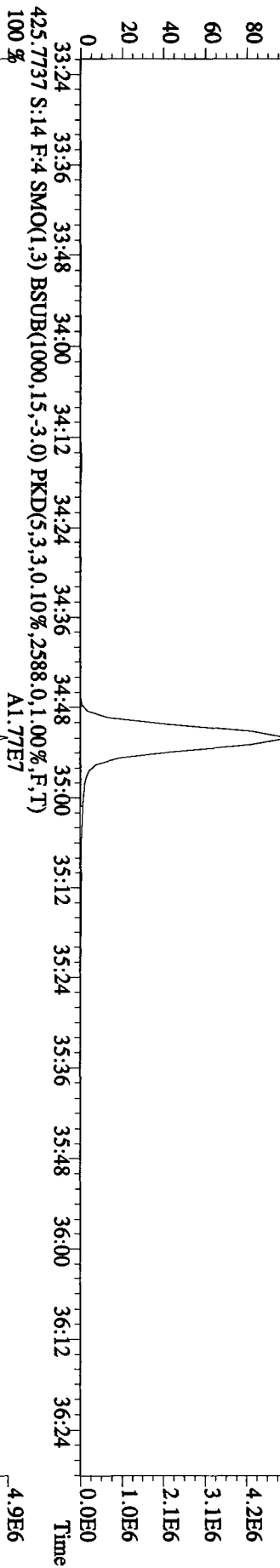
File:25AU10A1D5 #1-214 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE

Sample#14 Text:ST0825E :CS3 10DXN417

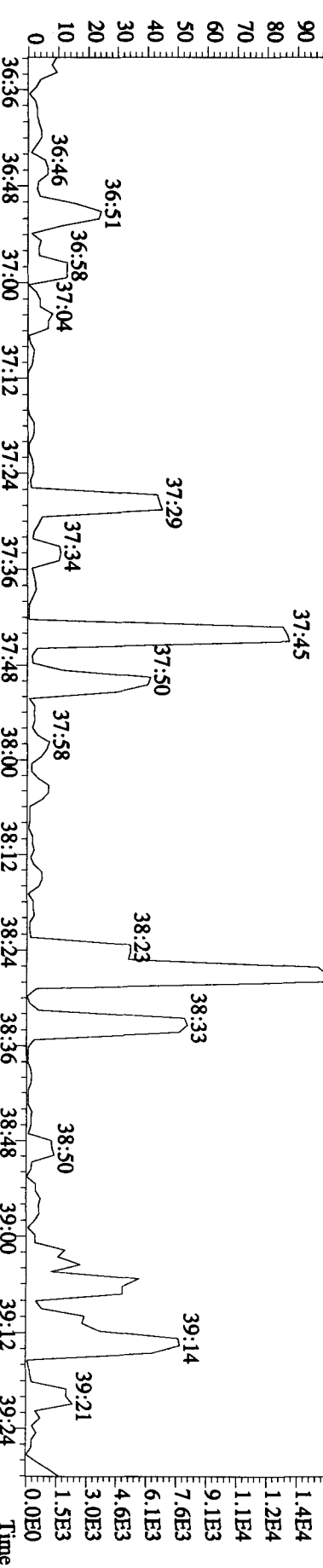
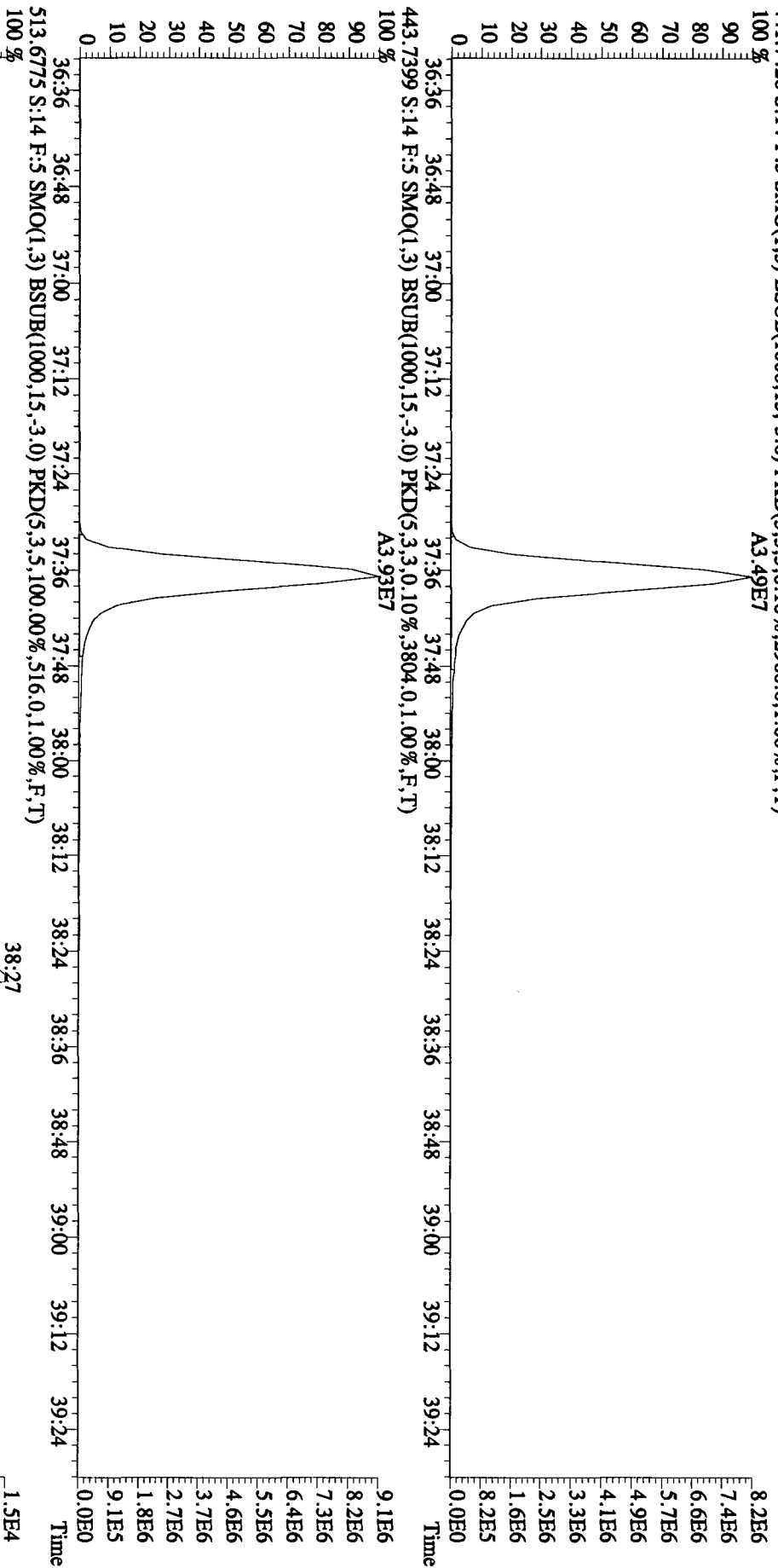
Exp:DIOXINRES

423.7766 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5012,0,1,00%,F,T)

A1.85E7

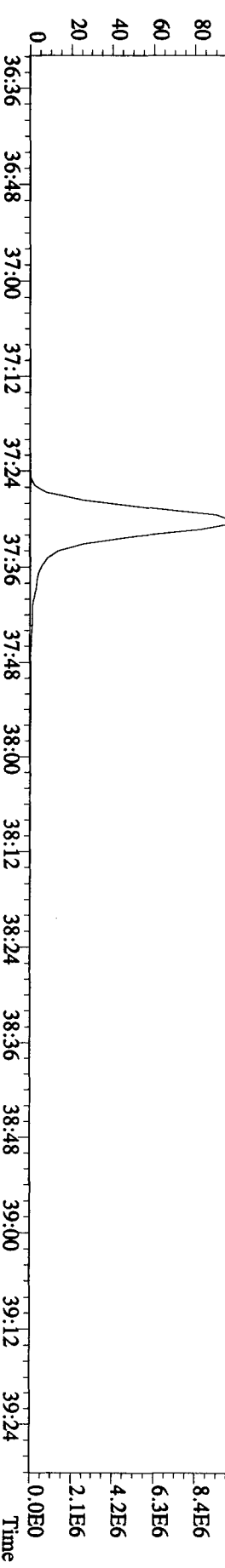
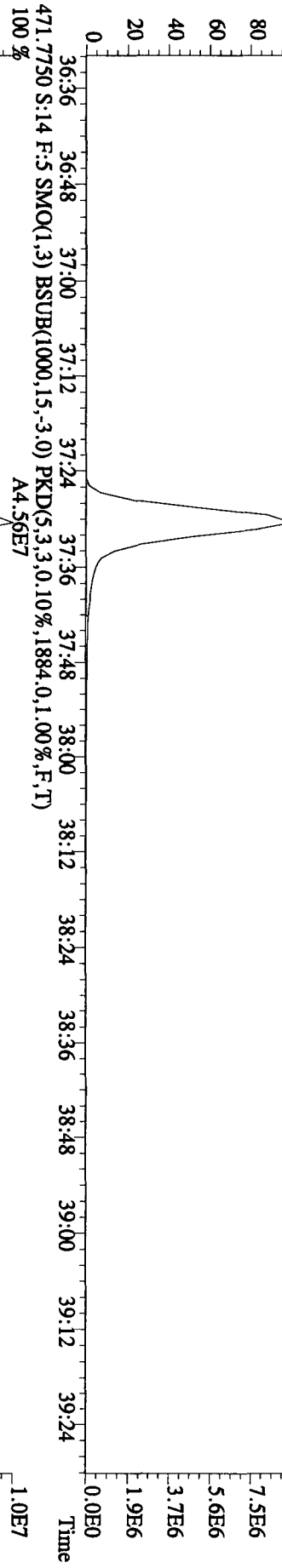
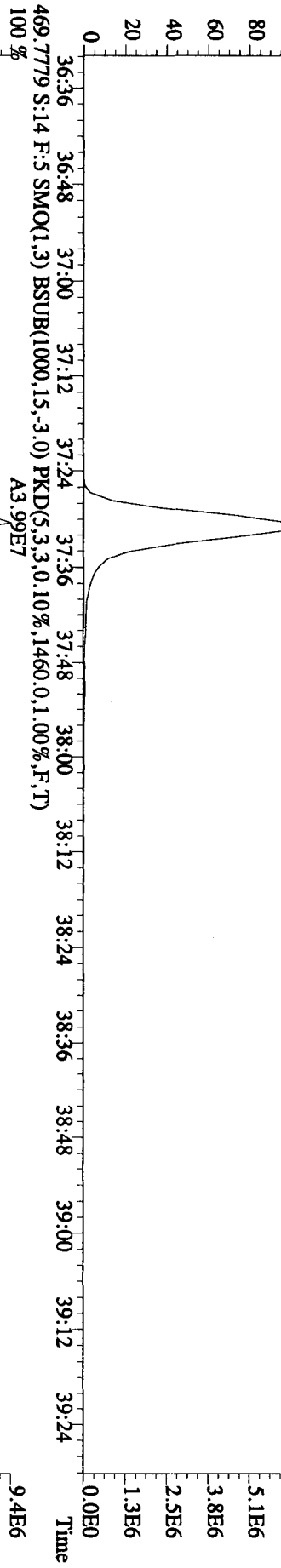
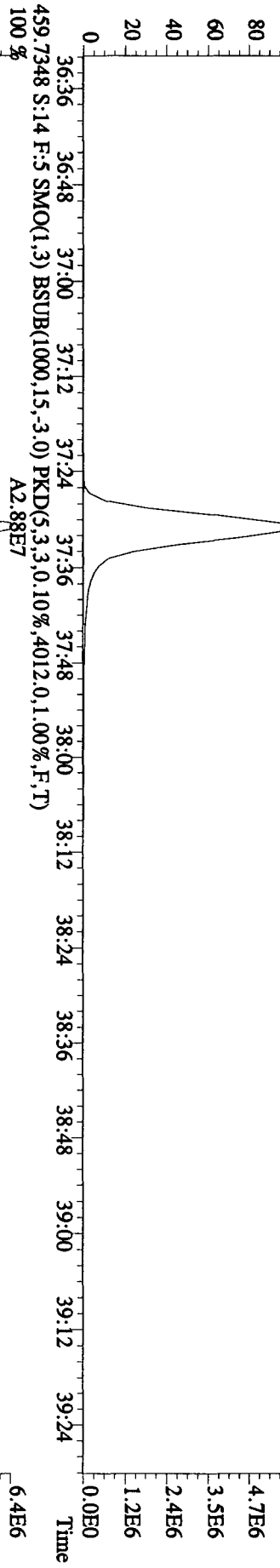


File:25AU10A1D5 #1-196 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE  
 Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES  
 441.7428 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2960,0.1,0.00%,F,T)  
 100% A3.49E7



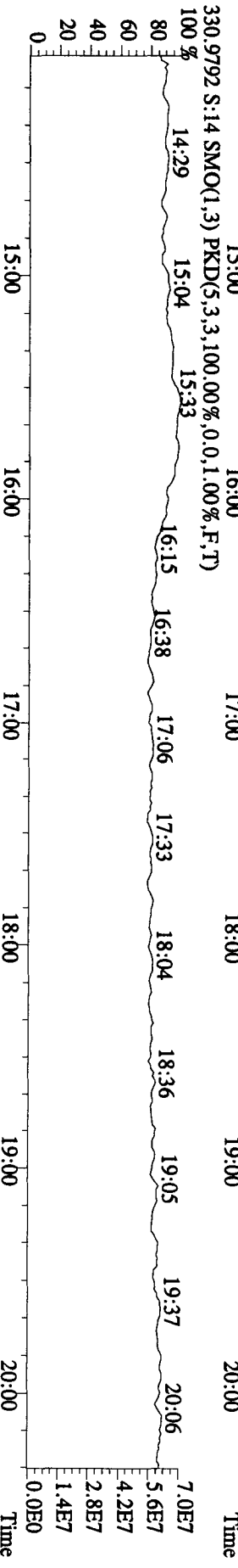
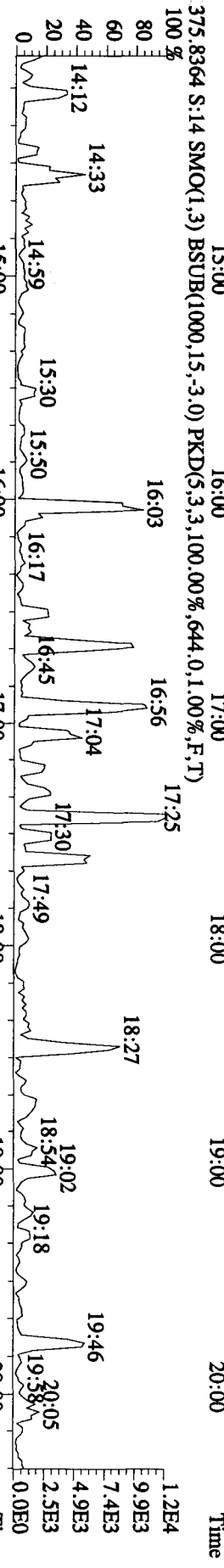
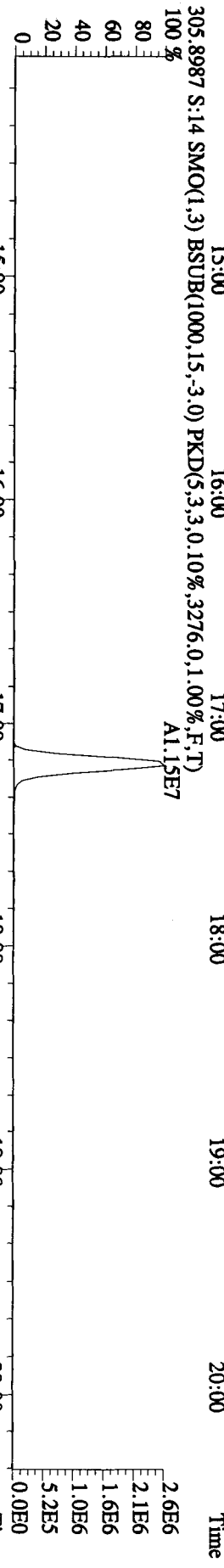
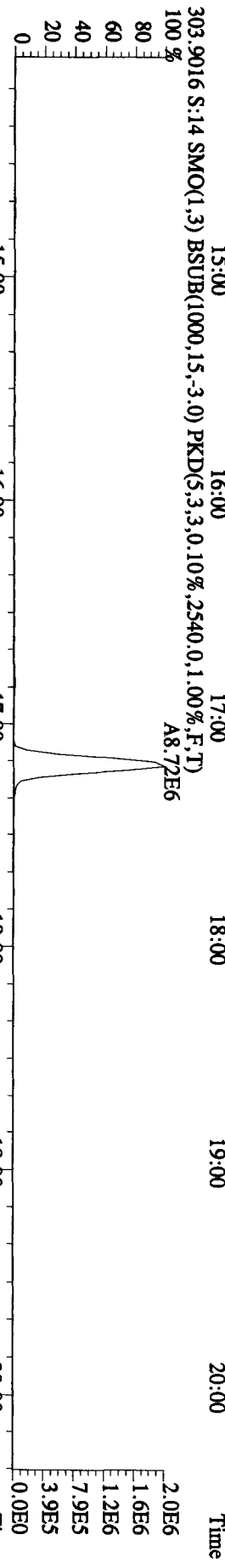
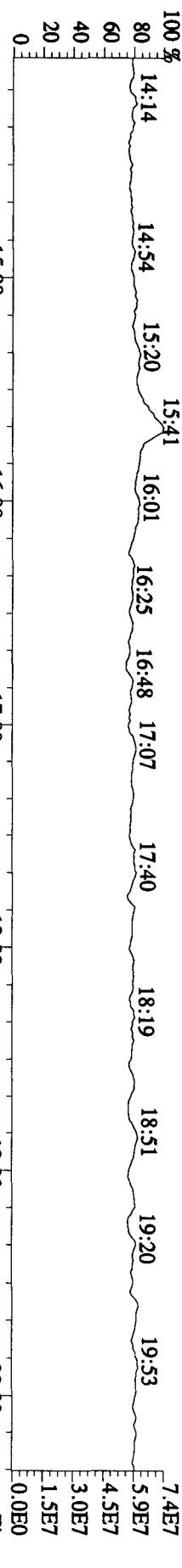
File:25AU10A1IDS #1-196 Acq:26-AUG-2010 07:16:13 GC EI + Voltage SIR 70SE

Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES  
457.7377 S:14 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2460,0,1,00%,F,T)  
100 % A2.61E7





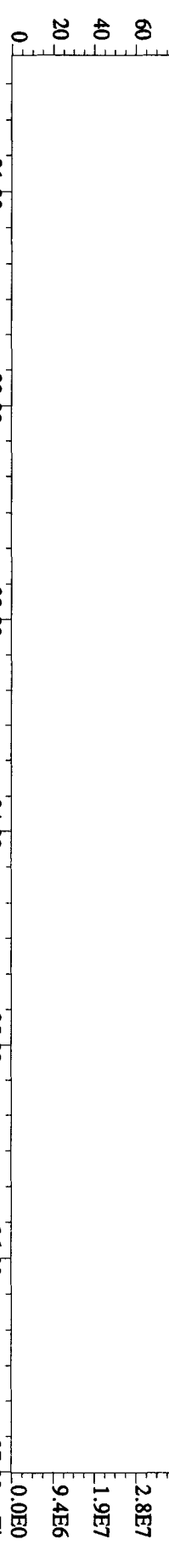
File:25AU10A1D5 #1-372 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE  
 Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES  
 292.9825 S:14 SMO(1,3) PKD(5,3,5,100.00%,0,0,1.00%,F,T)



Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES

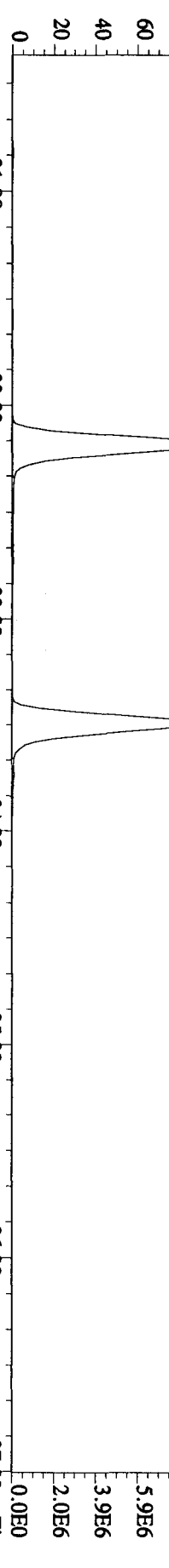
342.9792 S:14 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 20:43 21:23 21:52 22:25 22:55 23:25 23:55 24:27 25:01 25:29 26:02 26:28



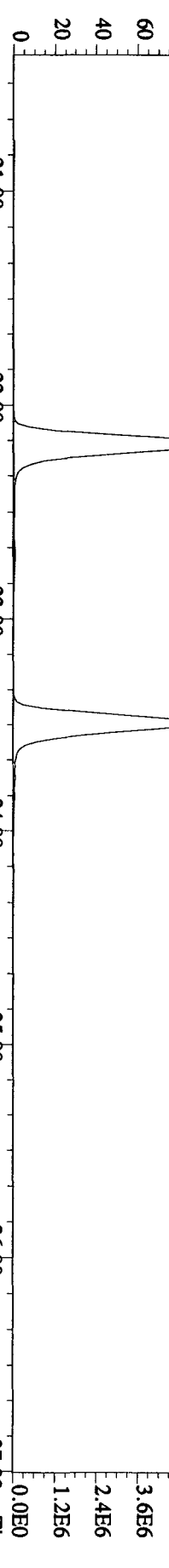
339.8597 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3864,0.1,0.0%,F,T)

100 % 21:00 22:00 23:00 24:00 25:00 26:00 27:00



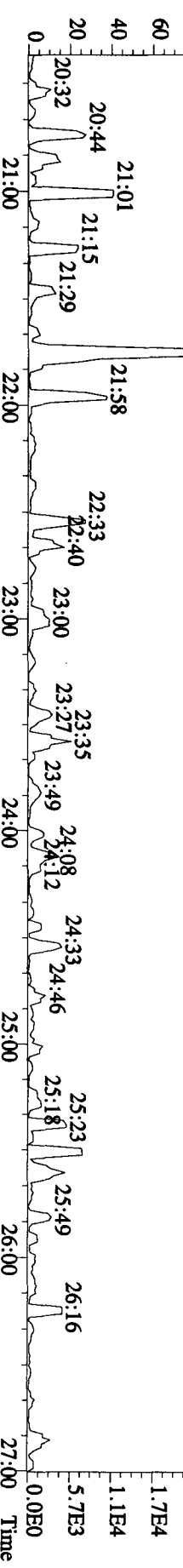
341.8567 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3756,0.1,0.0%,F,T)

100 % 21:00 22:00 23:00 24:00 25:00 26:00 27:00



409.7974 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,460,0.1,0.0%,F,T)

100 % 21:00 22:00 23:00 24:00 25:00 26:00 27:00

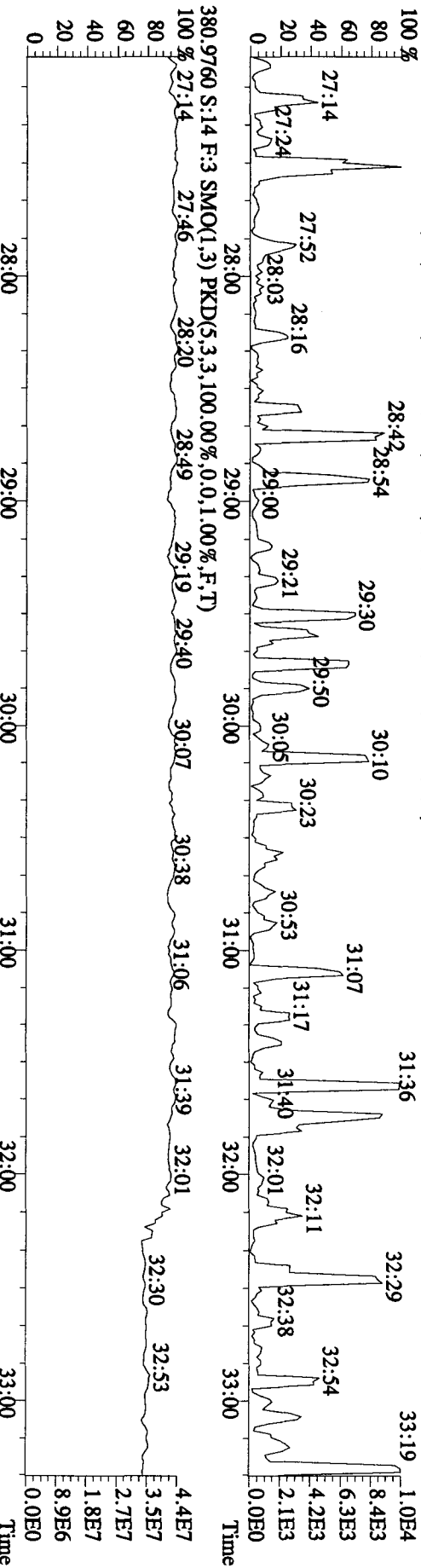
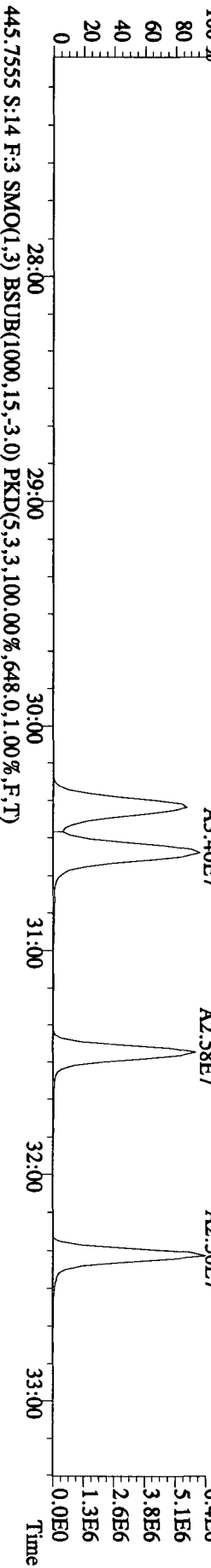
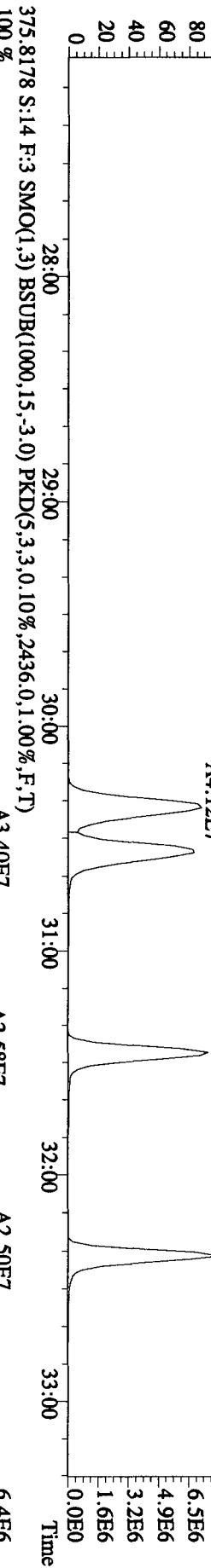
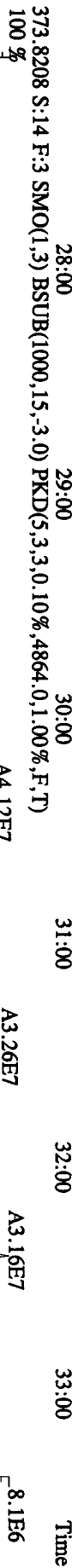
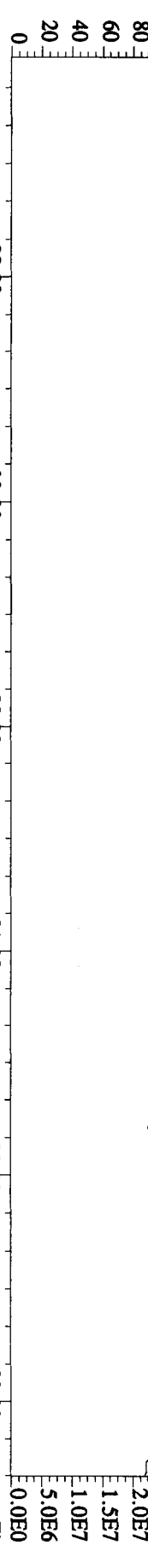


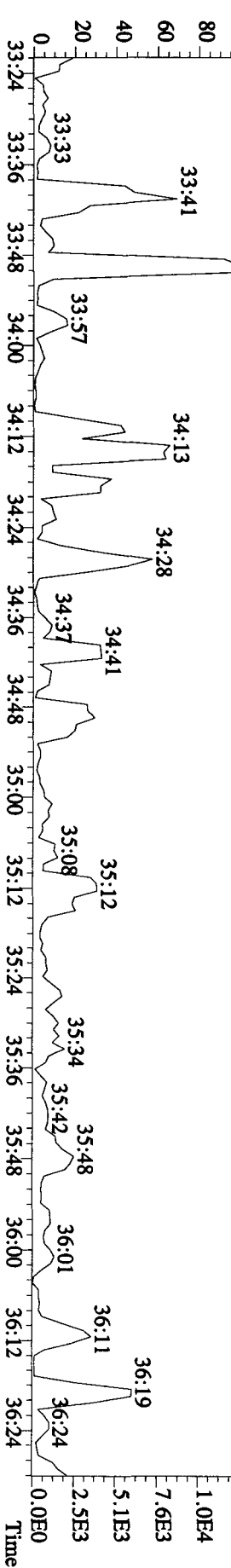
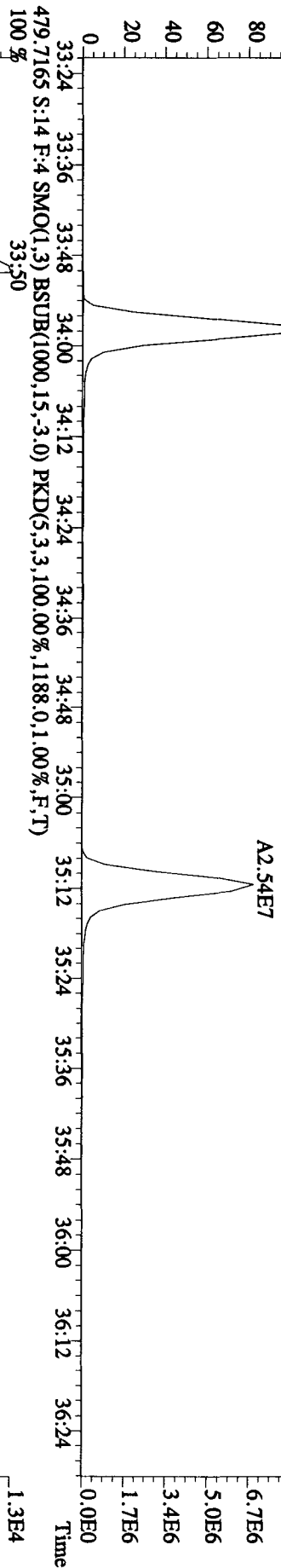
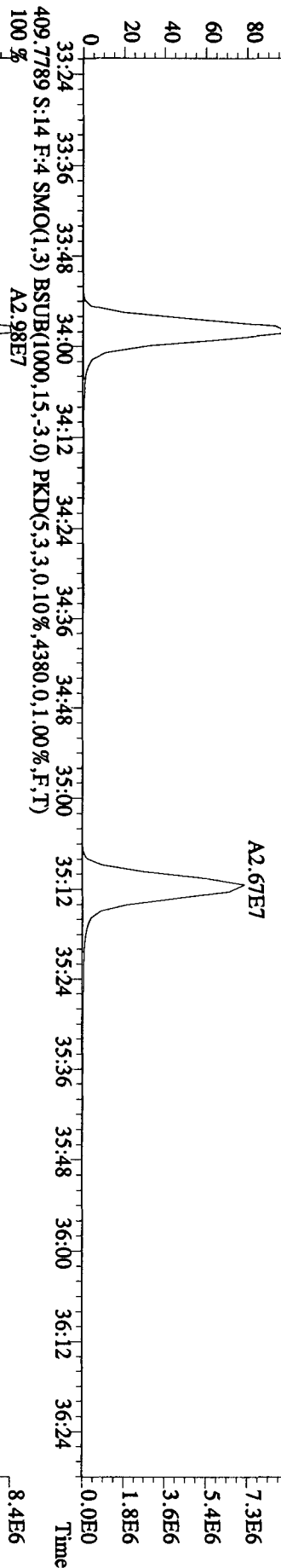
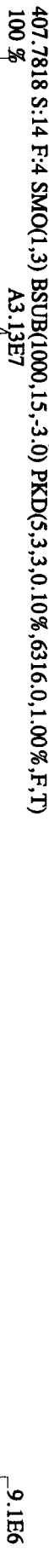
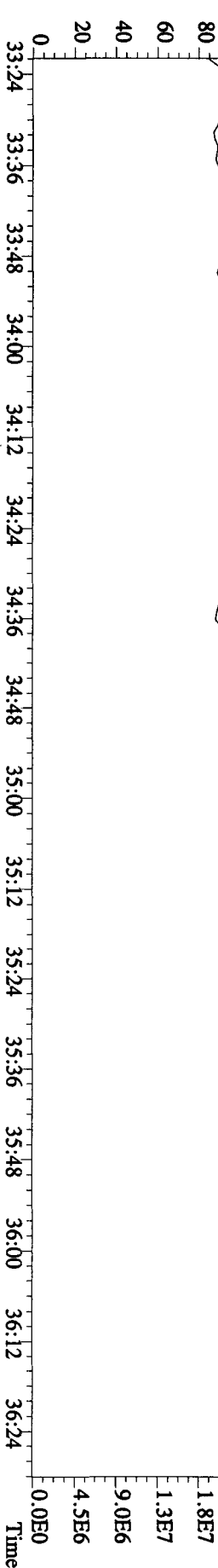
File:25AU10A1D5 #1-406 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE

Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES

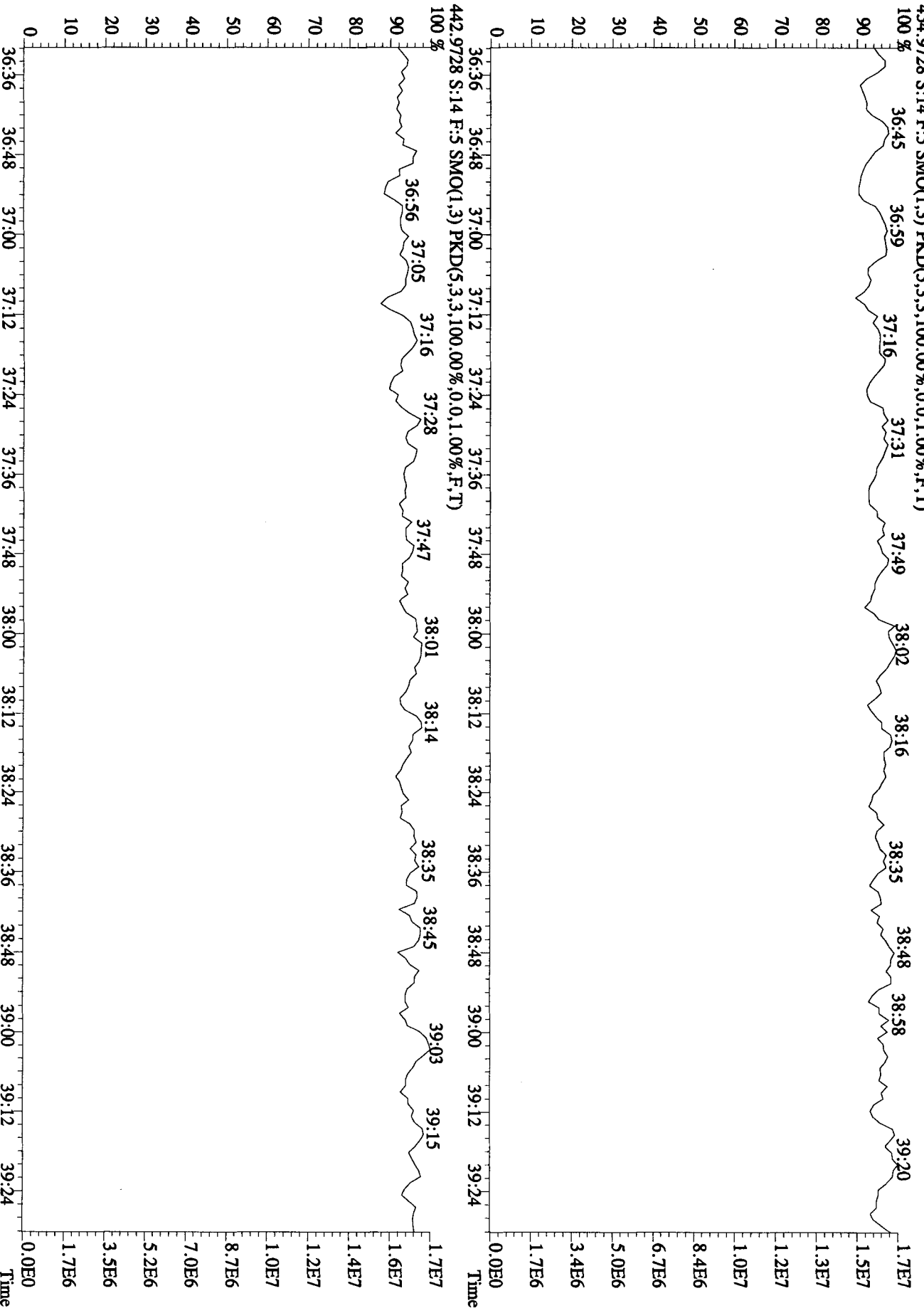
392.9760 S:14 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

100% 27:15 27:45 28:16 28:47 29:22 29:47 30:10 30:36 30:55 31:36 32:13 32:40 33:07





File:25AU10A1D5 #1-196 Acq:26-AUG-2010 07:16:13 GC EI+ Voltage SIR 70SE  
 Sample#14 Text:ST0825E :CS3 10DXN417 Exp:DIOXINRES  
 454.9728 S:14 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



## Daily Calibration Checklist Dioxin Methods

Method ID DBR25 (TO9/AIR)

Associated ICAL DB 2250726105D2

Column ID DB225

Instrument ID 5D2

STD ID ST0829B, ST0829C

STD Solution 10DXN426

Analyzed by KSS

Date Analyzed 8-29-10, 8-30-10

Std. Pkg. By NK

Date Std. Pkg. Assembled 8-30-10

Std. Pkg. Reviewed By AS

Date Std. Pkg. Reviewed 08-30-10

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?	✓	✓
Ending Standard present?	NA	NA
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: ST0829B File text: ST0829B :CS3 10DXN426  
 Run #6 Filename 29AU10A5D2 S: 2 I: 1  
 Acquired: 29-AUG-10 22:08:08 Processed: 30-AUG-10 09:34:11  
 Run: 29AU10A5D2 Analyte: DB225AIR Cal: DB225AIR0726105D2 Results: 29AU10A5D2DB225AIR

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	95832400	0.77 y	14:57	-	100.00	-	n
13C-2,3,7,8-TCDF	175774700	0.80 y	16:08	1.83	100.00	-13.1	n
2,3,7,8-TCDF	18390270	0.83 y	16:10	1.05	10.00	-0.9	n
13C-2,3,7,8-TCDD	91193700	0.79 y	14:38	0.95	100.00	7.6	n
2,3,7,8-TCDD	13308070	0.79 y	14:40	1.46	10.00	-10.8	n
37Cl-2,3,7,8-TCDD	12798860	1.00 y	14:40	1.34	10.00	3.6	n

Run text: ST0829C File text: ST0829C :CS3 10DXN417  
Run #9 Filename 29AU10A5D2 S: 18 I: 1  
Acquired: 30-AUG-10 07:46:33 Processed: 30-AUG-10 09:35:13  
Run: 29AU10A5D2 Analyte: DB225AIR Cal: DB225AIR0726105D2 Results: 29AU10A5D2DB225AIR

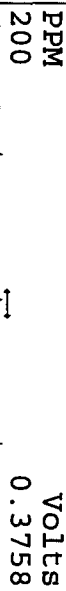
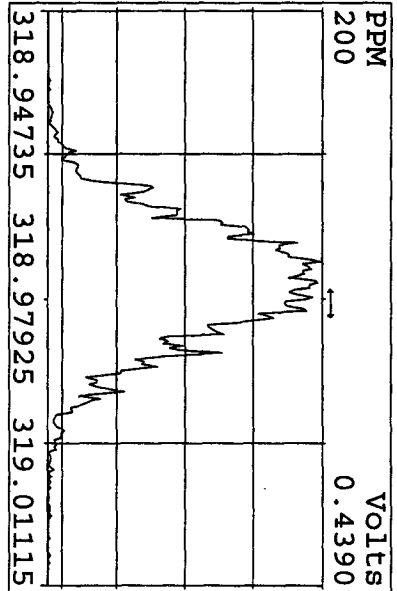
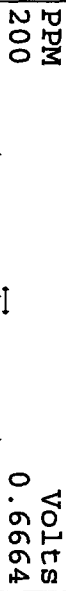
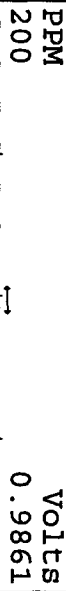
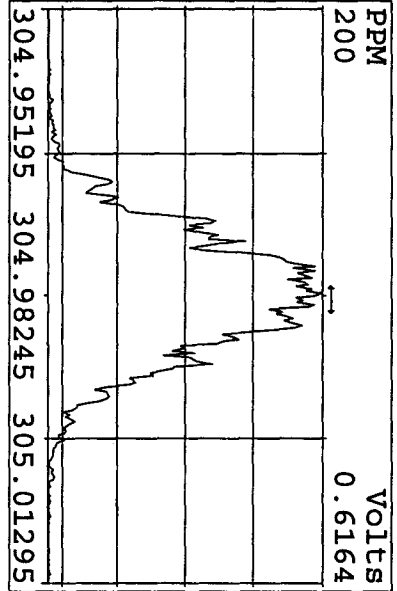
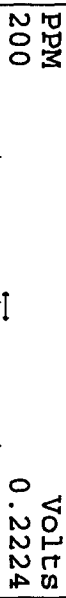
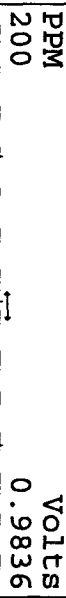
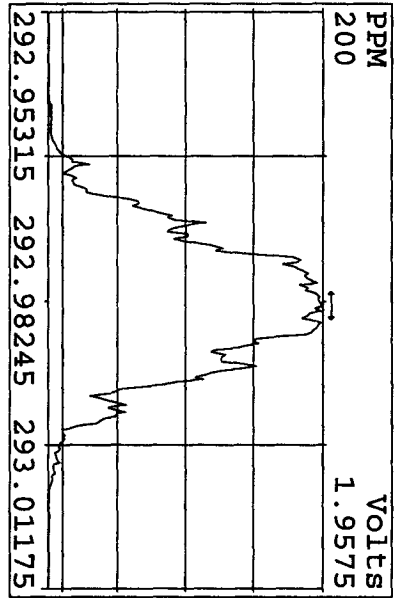
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	80265716	0.80 y	14:50	-	100.00	-	n
13C-2,3,7,8-TCDF	136370452	0.79 y	16:02	1.70	100.00	-19.5	n
2,3,7,8-TCDF	13813979	0.83 y	16:03	1.01	10.00	-4.1	n
13C-2,3,7,8-TCDD	76411456	0.79 y	14:33	0.95	100.00	7.6	n
2,3,7,8-TCDD	10851882	0.80 y	14:34	1.42	10.00	-13.2	n
37Cl-2,3,7,8-TCDD	9605682	1.00 y	14:34	1.20	10.00	-7.2	n



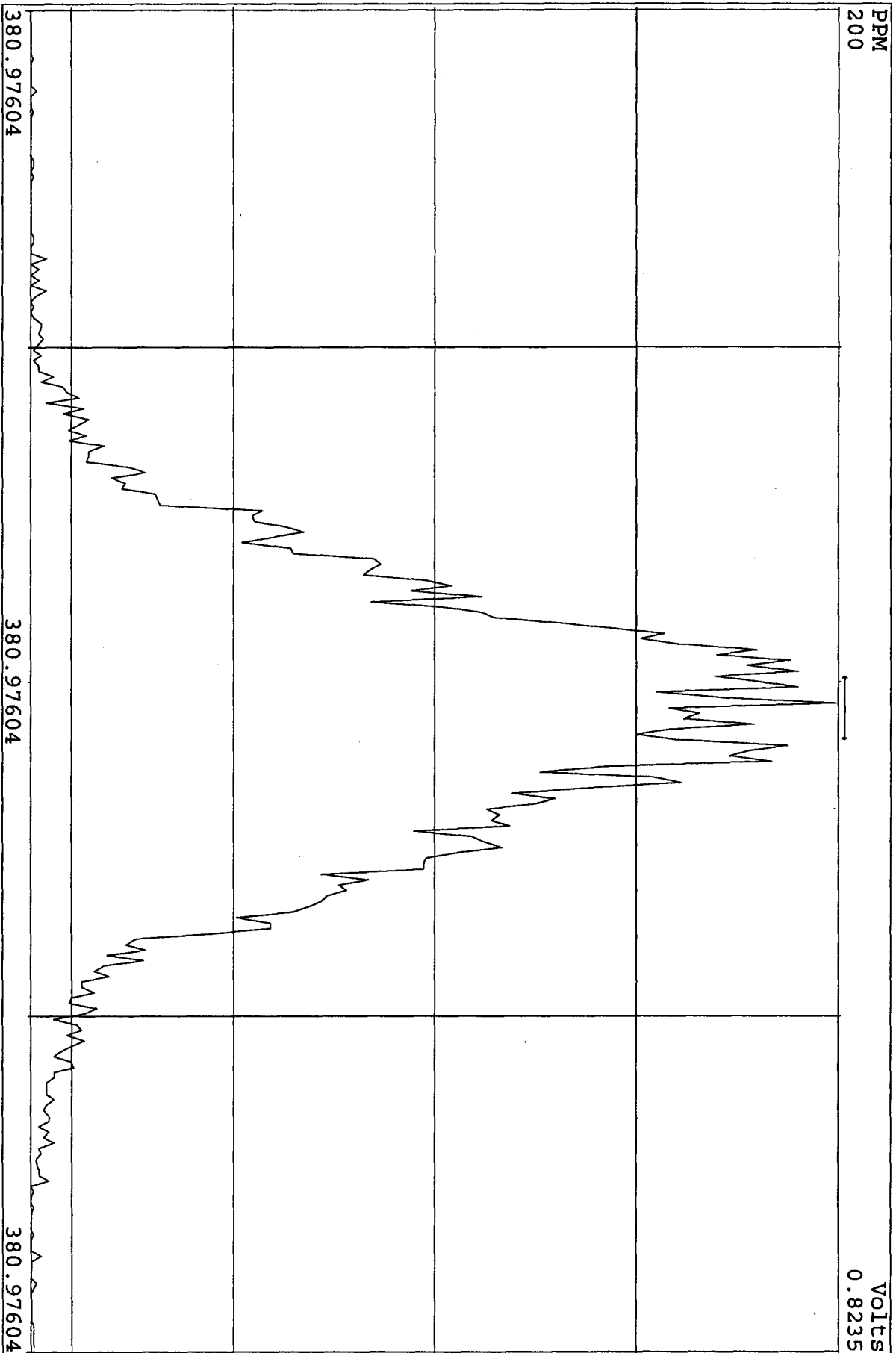
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
29AU10A5D2	1	CP0829A	DB-225 CPSM 3732-06				1.0000	
29AU10A5D2	2	ST0829B	CS3 10DXN426				1.0000	
29AU10A5D2	3	SB0829B	Solvent Blank C-14				1.0000	
29AU10A5D2	4	L5X78-1-AD	G0H200655-10	20	8290/SOLID	7	10.4600	g
29AU10A5D2	5	L507F-1-AA	G0H210471-2	20	TO9/AIR	8	0.5000	Sam
29AU10A5D2	6	L5HR4-1-AC	G0H120594-2	10	8290/SOLID	99	10.5600	g
29AU10A5D2	7	L5HR5-1-AC	G0H120594-3	10	8290/SOLID		10.6300	g
29AU10A5D2	8	L5HR6-1-AC	G0H120594-4	10	8290/SOLID		10.6400	g
29AU10A5D2	9	L5HR6-1-AD	G0H120594-4S	10	8290/SOLID		10.1400	g
29AU10A5D2	10	L5HR6-1-AE	G0H120594-4SD	10	8290/SOLID		10.2400	g
29AU10A5D2	11	L5HR7-1-AC	G0H120594-5	10	8290/SOLID		10.7600	g
29AU10A5D2	12	L5HR8-1-AC	G0H120594-6	10	8290/SOLID		10.5100	g
29AU10A5D2	13	L5HR9-1-AC	G0H120594-7	10	8290/SOLID		10.2200	g
29AU10A5D2	14	L5HTA-1-AC	G0H120594-8	10	8290/SOLID		10.0200	g
29AU10A5D2	15	L5HTC-1-AC	G0H120594-9	10	8290/SOLID		10.0000	g
29AU10A5D2	16	L5HAE-1-AA	G0H120523-14	20	8290/WATER	95	1.0394	L
29AU10A5D2	17	SB0829C	Solvent Blank C-14				1.0000	
29AU10A5D2	18	ST0829C	CS3 10DXN417				1.0000	
29AU10A5D2	19	CP0829B	DB-225 CPSM 3732-06				1.0000	
29AU10A5D2	20						1.0000	
29AU10A5D2	21						1.0000	
29AU10A5D2	22		KSS 08-29-10				1.0000	
29AU10A5D2	23						1.0000	
29AU10A5D2	24						1.0000	

*logfile v'd  
8/30/10*

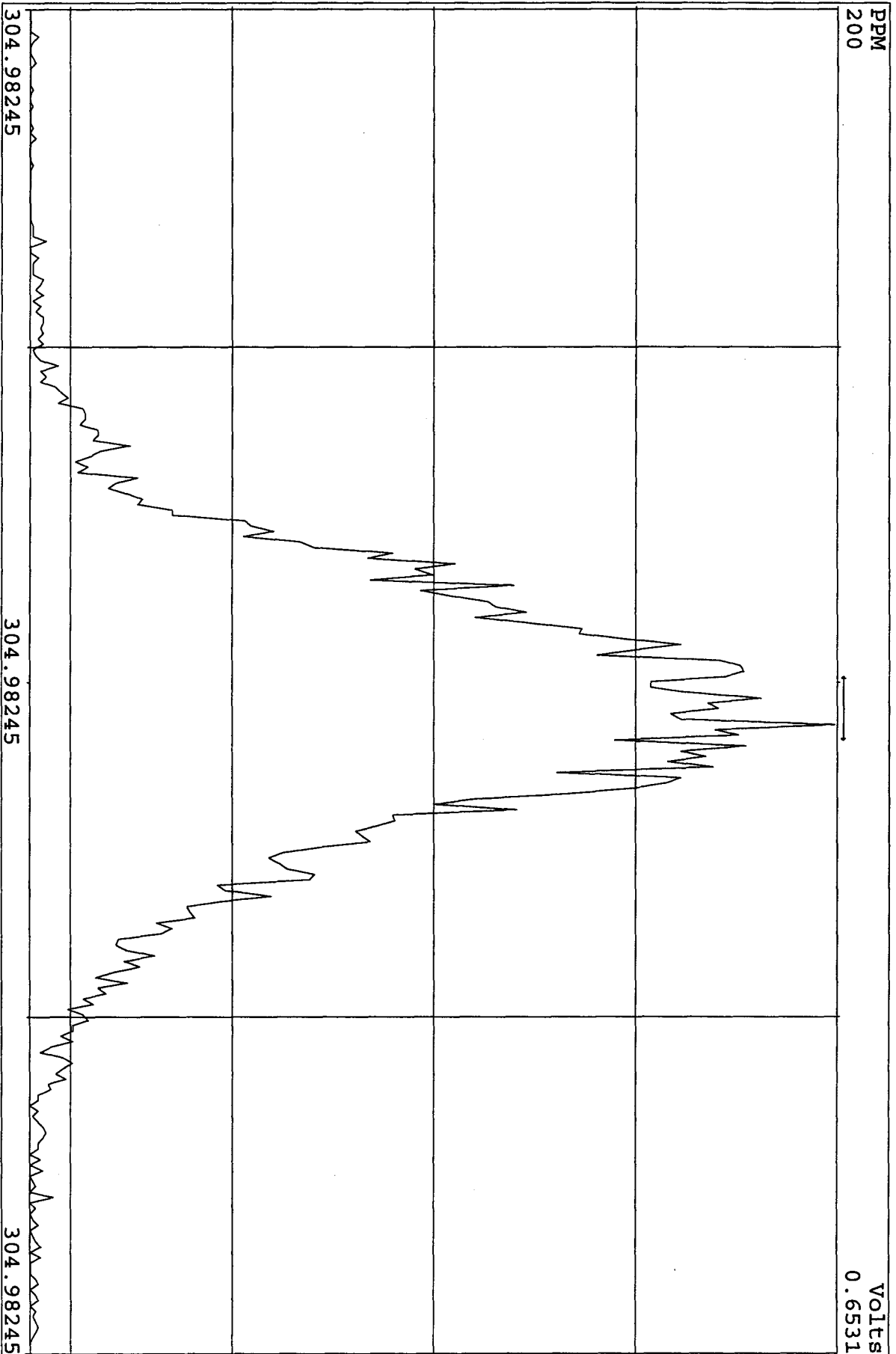
Peak Locate Examination: 29-AUG-2010: 21:31 File: 29AU10A5D2  
 Experiment: DB225RES Function: 1 Reference: PRK



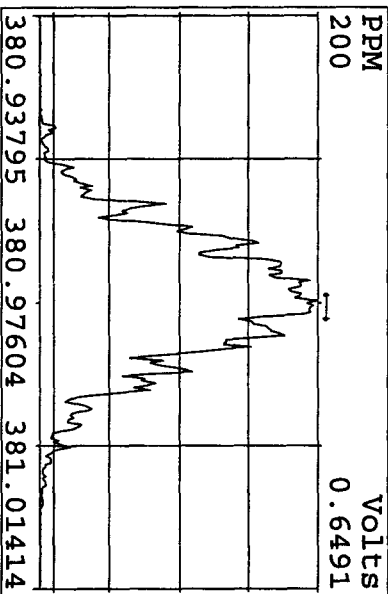
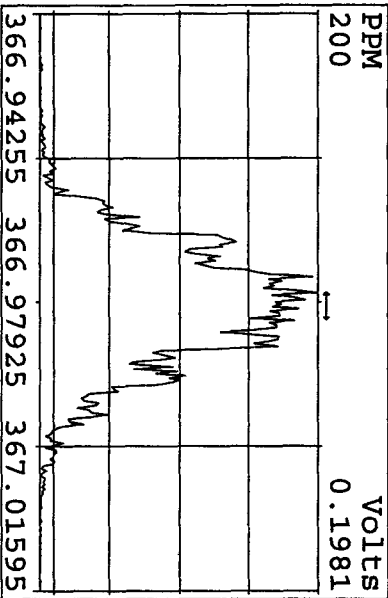
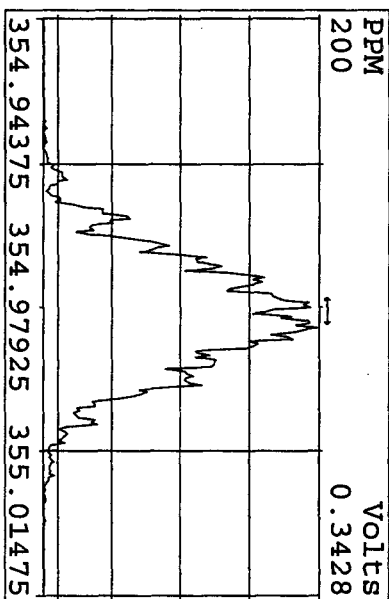
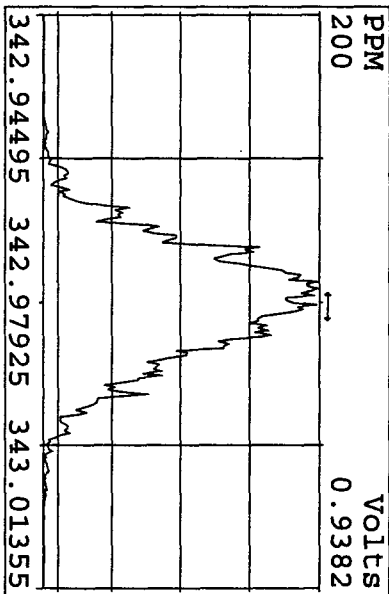
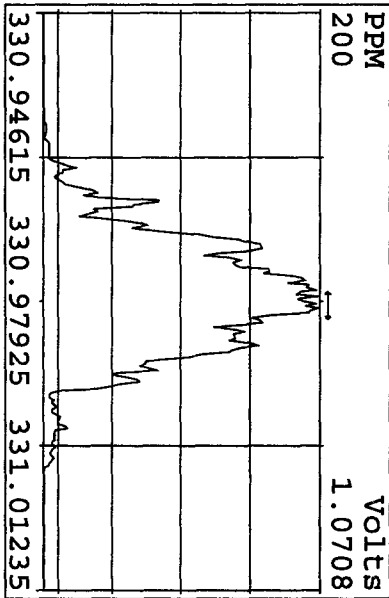
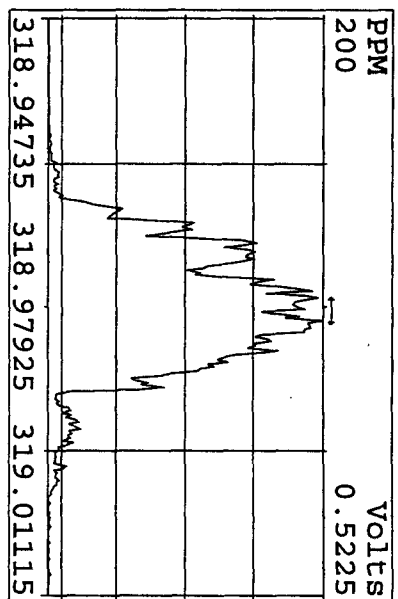
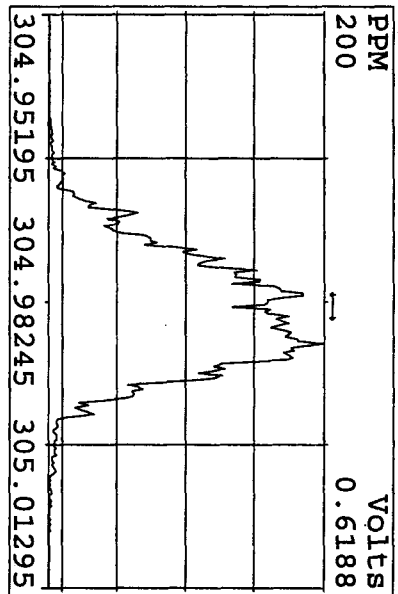
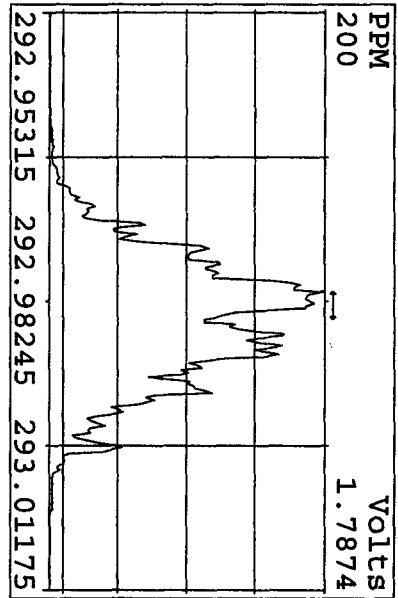
SIRLM Examination: 30-AUG-2010: 08:47 File: 29AU10A5D2  
Experiment: DB225RES Function: 2



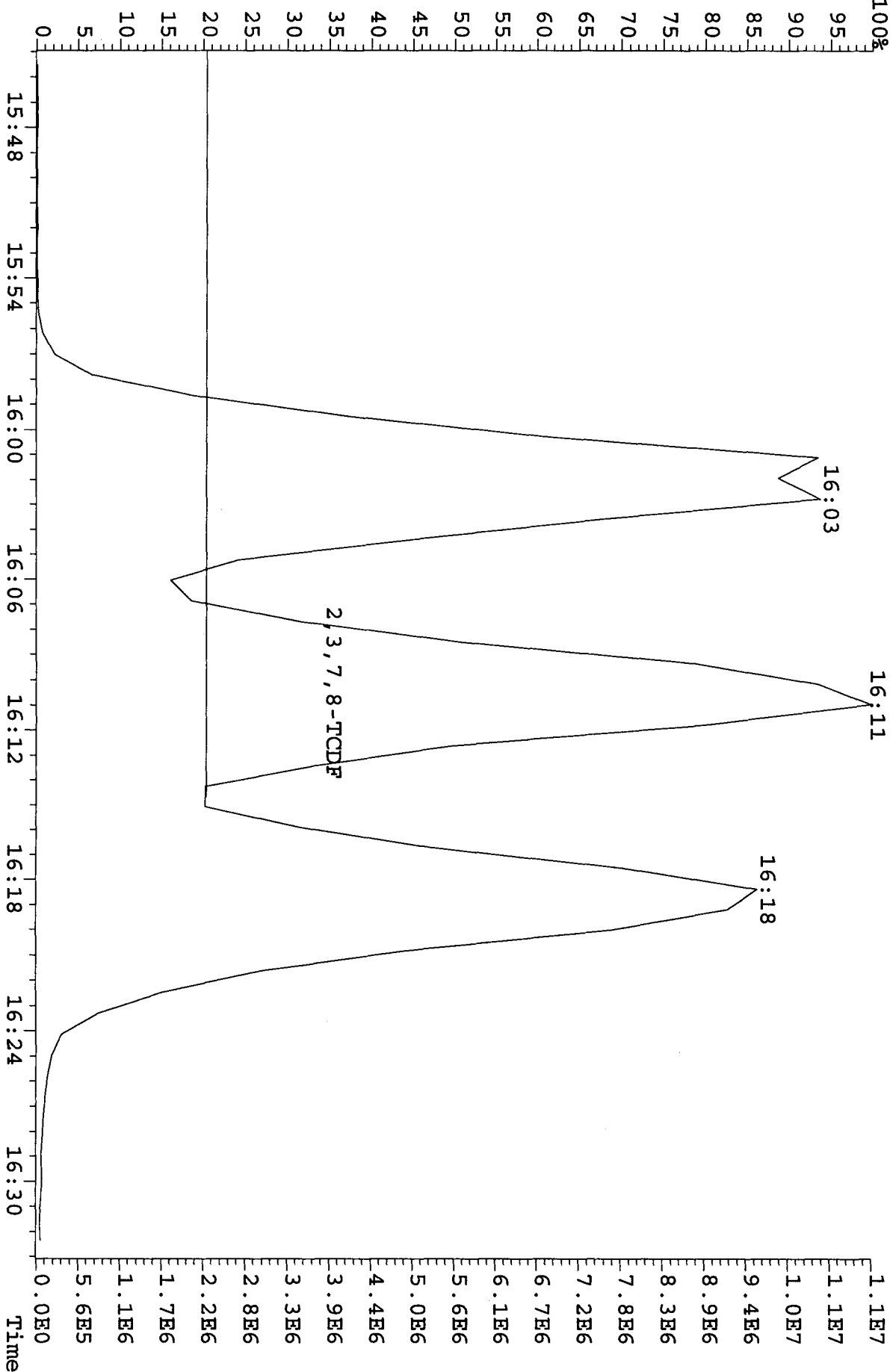
SIRIM Examination: 30-AUG-2010: 08:49 File: 29AU10A5D2  
Experiment: DB225RES Function: 3



Peak Locate Examination:30-AUG-2010:09:08 File:29AU10A5D2ENDRES  
 Experiment:DB225RES Function:1 Reference:PFK



File: 29AU10A5D2 #1-1241 Acq: 29-AUG-2010 21:32:02 GC FI+ Voltage SIR 70SE  
 303.9016 BSUB(128, 15, -3.0) Exp: DB225RES Noise: 3778  
 Sample Text: CP0829A : DB-225 CPSM 3732-06

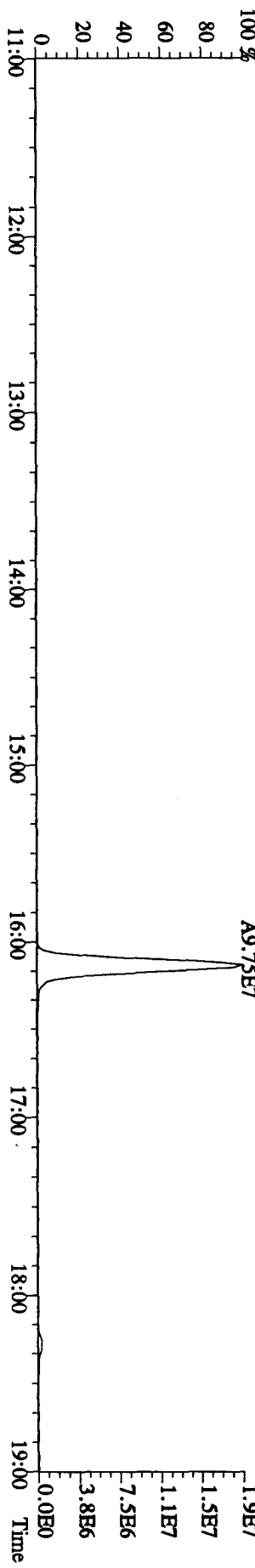
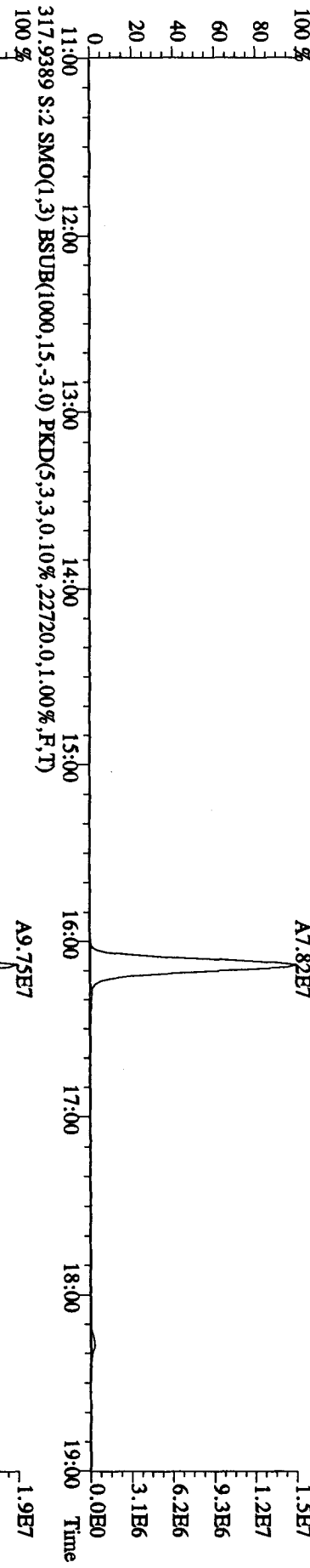
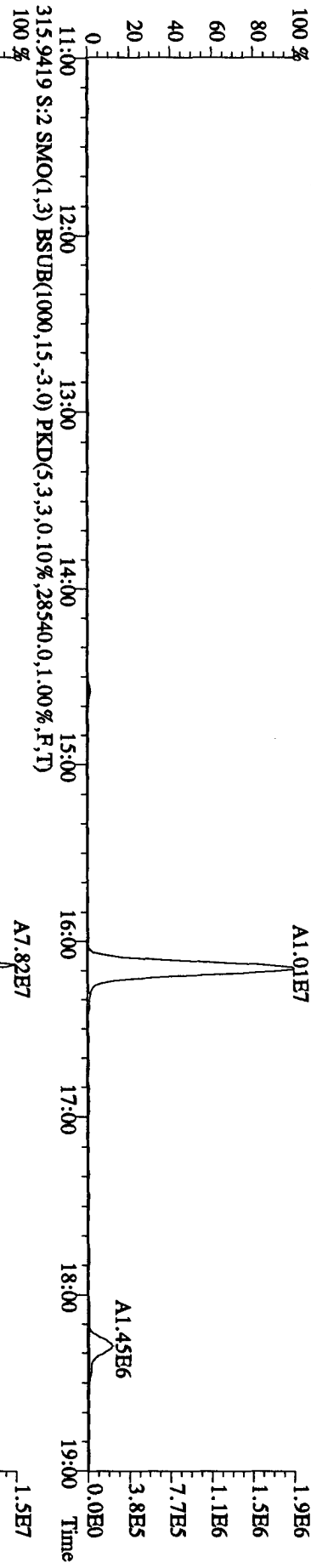
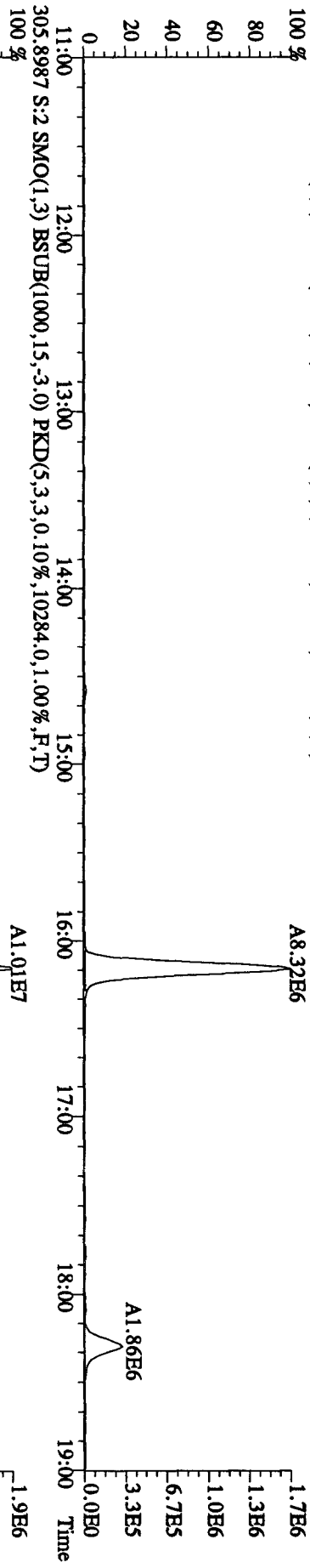


Run: 29AUI0A5D2 Analyte: DB225AIR Cal: DB225AIR0726105D2

ST0726A : CS-1 10DXN342 RI ST0726B : CS-2 10DXN335 ST0726C : CS-3 10DXN336  
 ST0726E : CS-4 10DXN337 ST0726D : CS-5 10DXN339

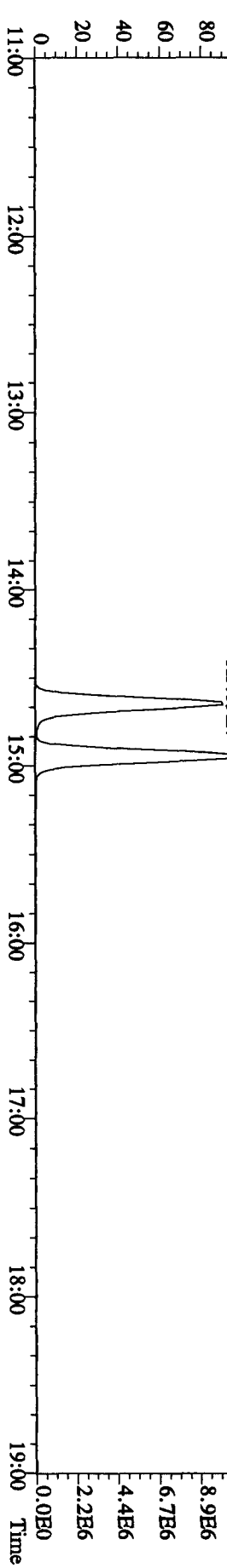
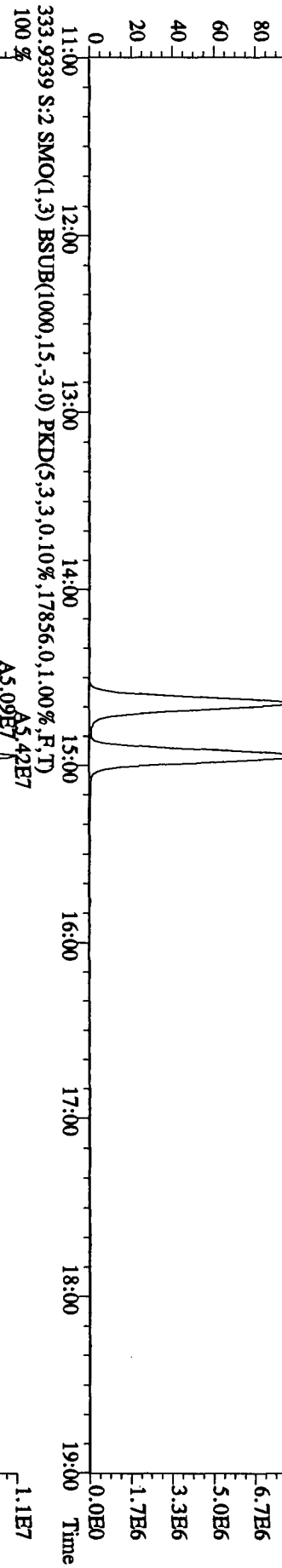
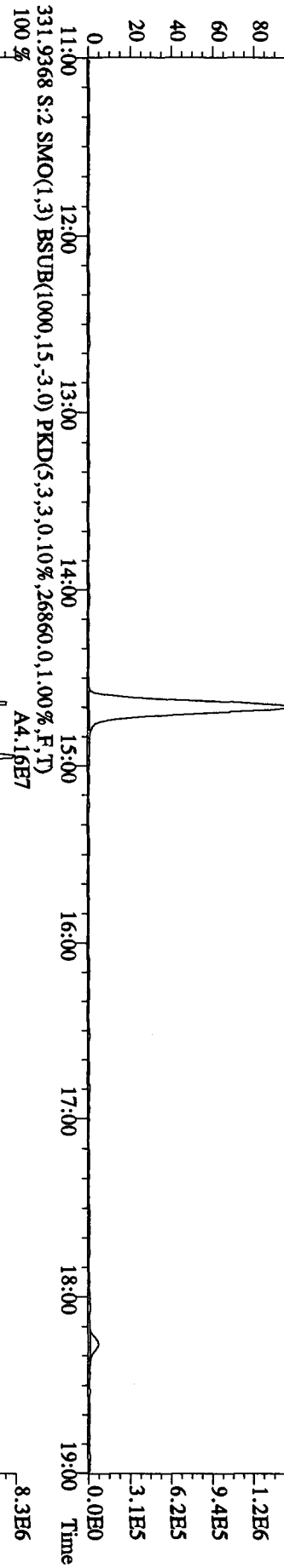
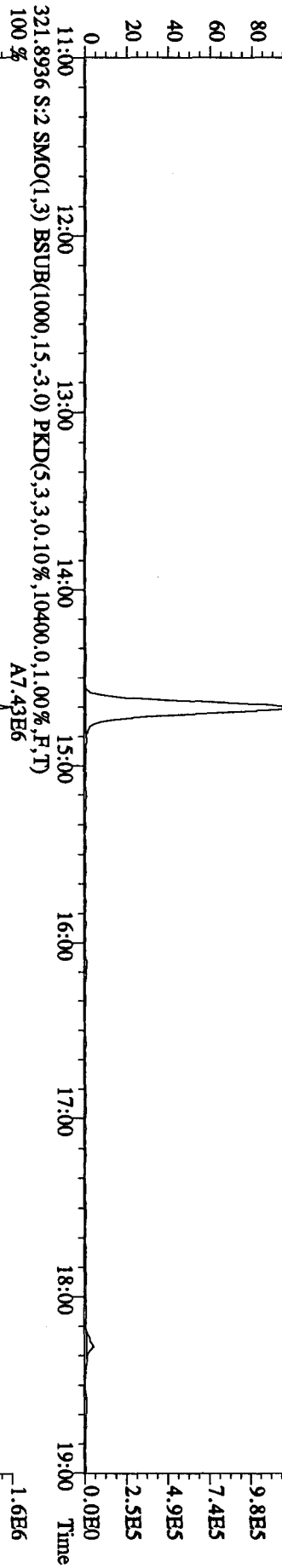
Name	Mean	S. D.	%RSD	26JL105D2				
				S6	S5	S7	S9	S8
				RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	2.111	0.055	2.59 %	2.14	2.09	2.12	2.03	2.18
2,3,7,8-TCDF	1.056	0.035	3.32 %	1.11	1.04	1.02	1.06	1.04
13C-2,3,7,8-TCDD	0.885	0.025	2.78 %	0.91	0.87	0.91	0.86	0.87
2,3,7,8-TCDD	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

File:29AU10A5D2 #1-1242 Acq:29-AUG-2010 22:08:08 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST0829B :CS3 10DXN426 Exp:DB225RES  
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7676,0,1,00%,F,T)  
 100 %

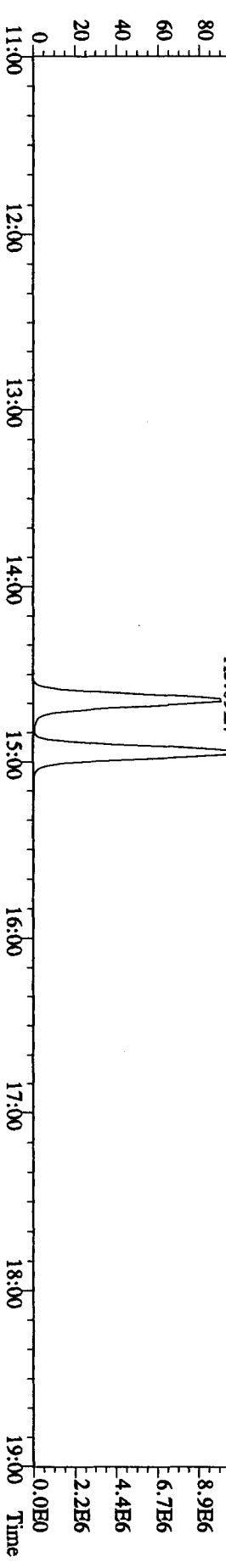
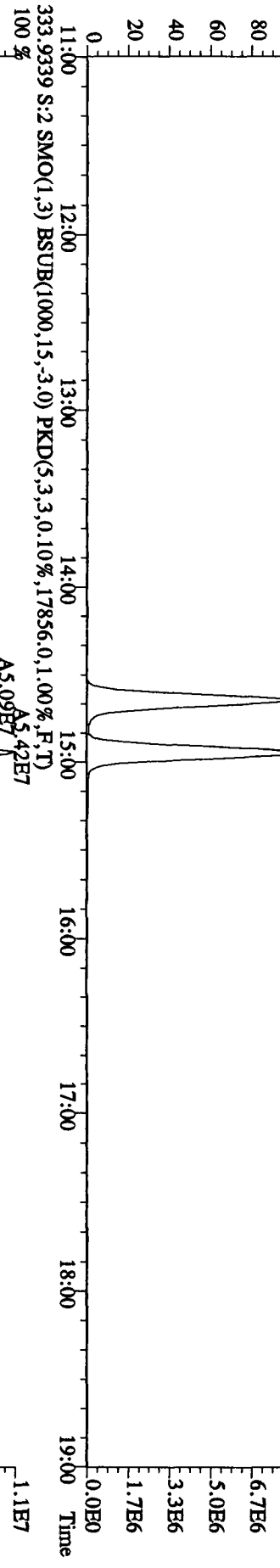
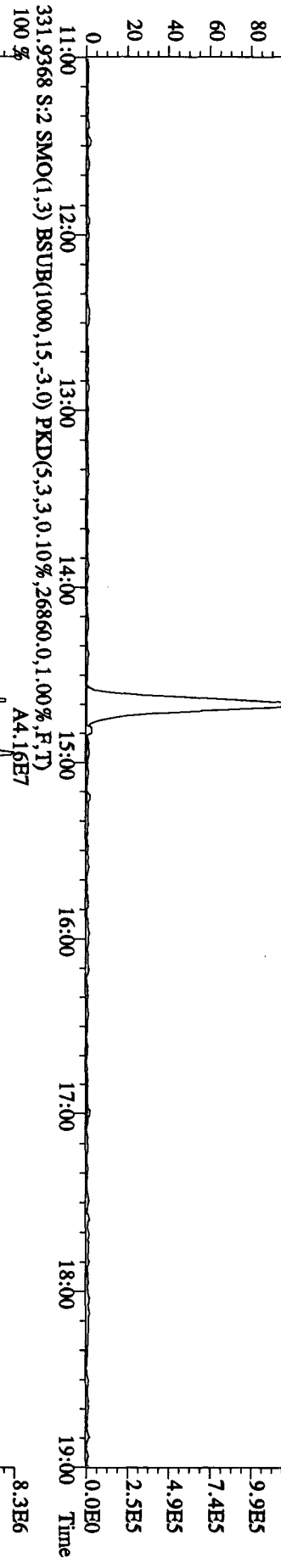
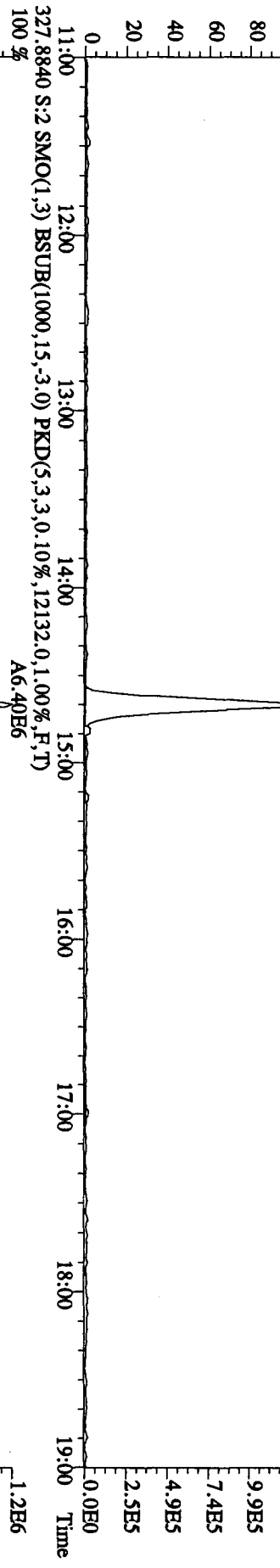




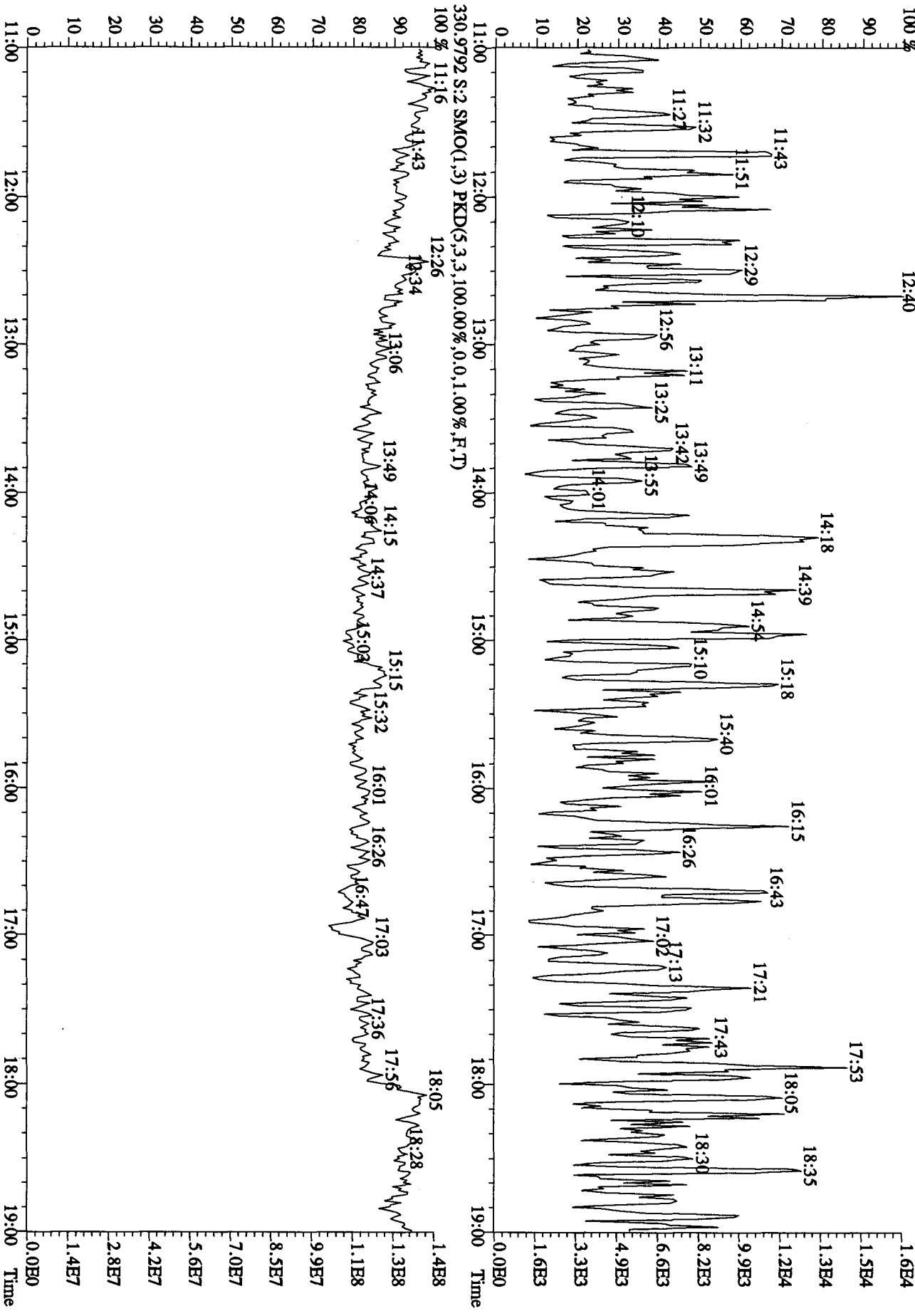
File:29AU10A5D2 #1-1242 Acq:29-AUG-2010 22:08:08 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST0829B :CS3 10DXN426 Exp:DB225RES  
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7756,0,1,00%,F,T)  
 100 % A5.88E6



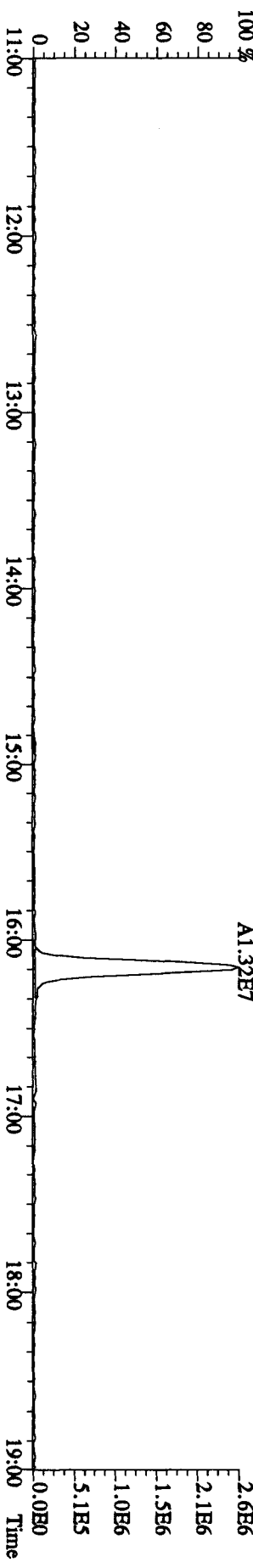
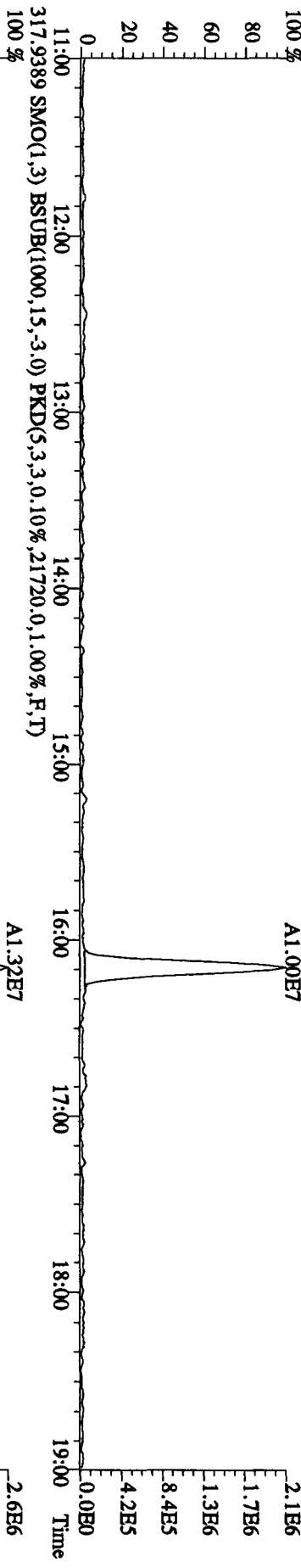
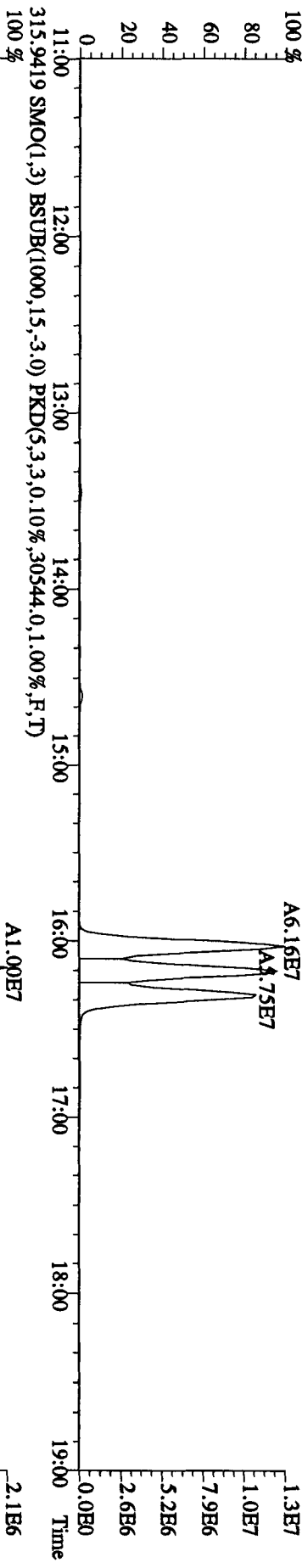
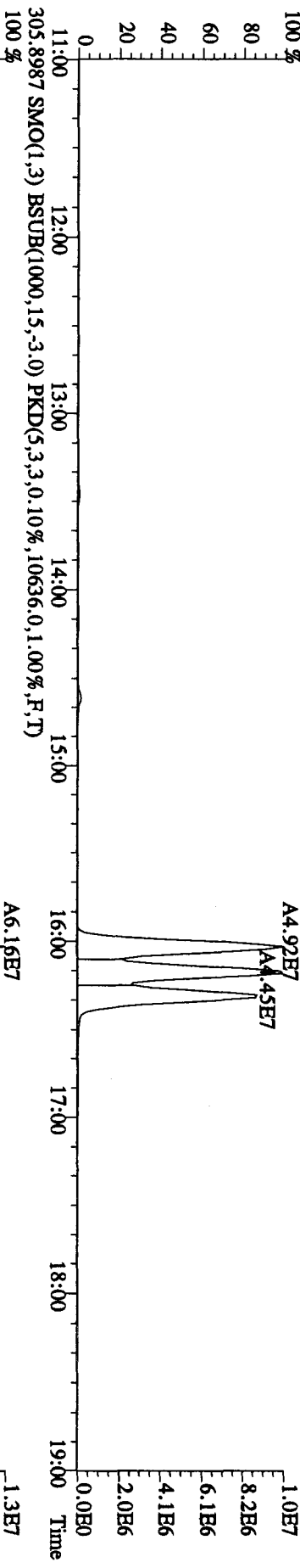
File:29AU10A5D2 #1-1242 Acq:29-AUG-2010 22:08:08 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST0829B :CS3 10DXN426 Exp:DB225RES  
 327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12132.0,1.00%,F,T)  
 100% A6.40E6



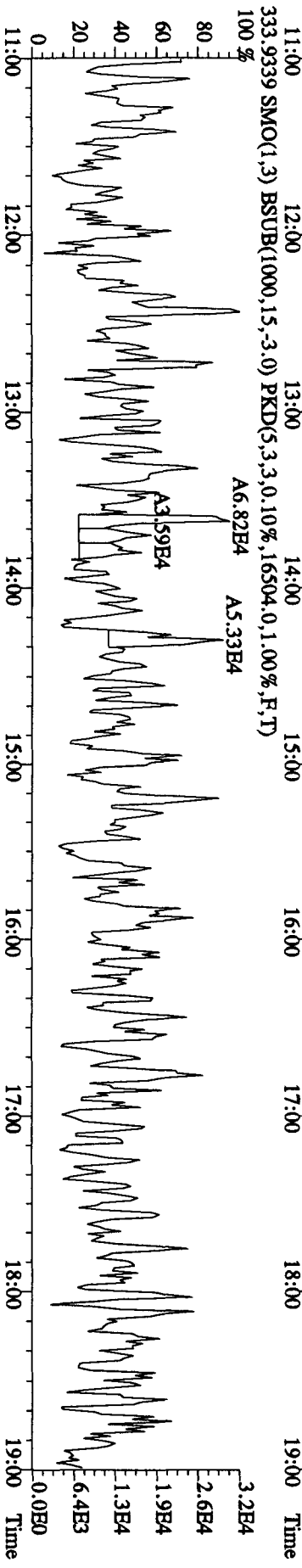
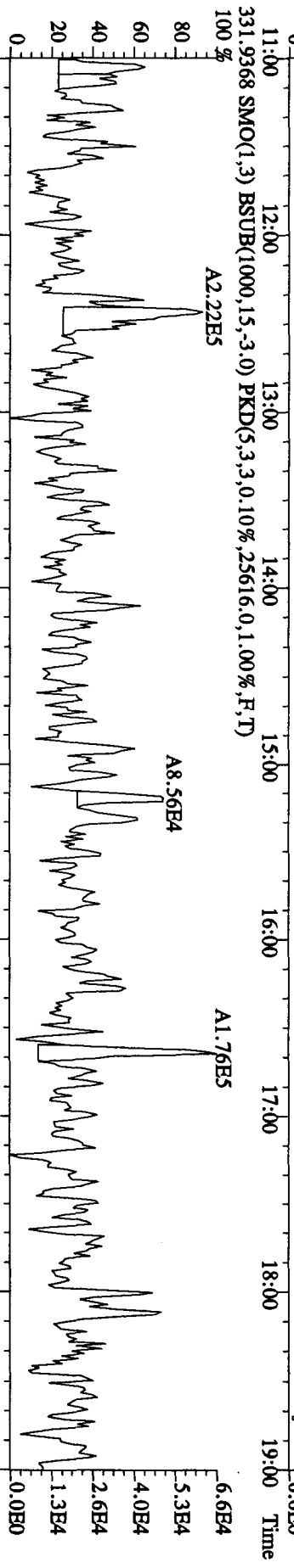
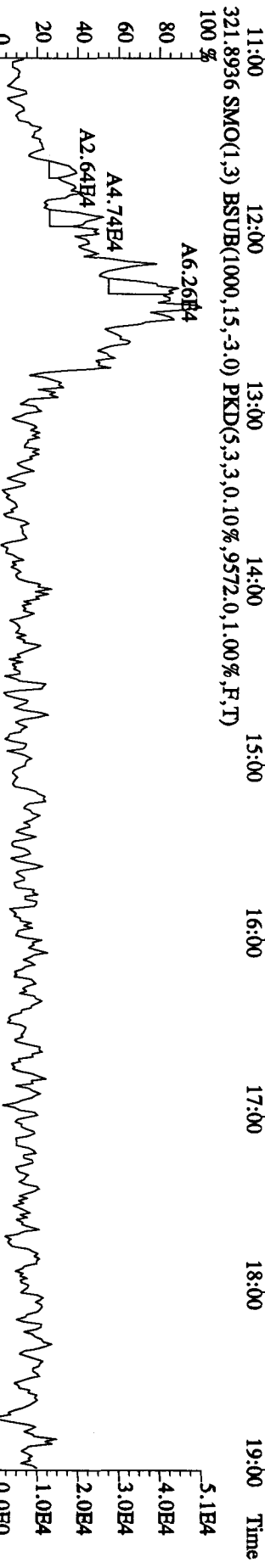
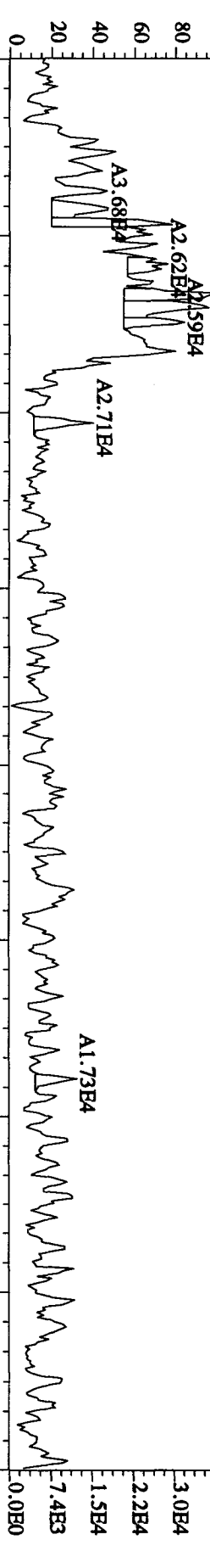
File: 29AU10A5D2 #1-1242 Acq: 29-AUG-2010 22:08:08 GC HI + Voltage SIR 70SE  
 Sample#2 Text: ST0829B :CS3 10DXN426 Exp: DB225RES  
 375.8364 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,100.00%,6016,0,1.00%,F,T)



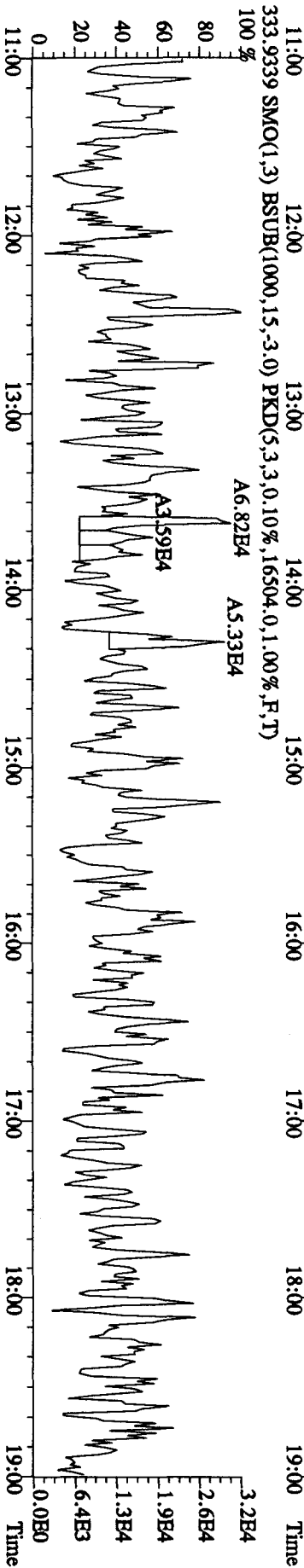
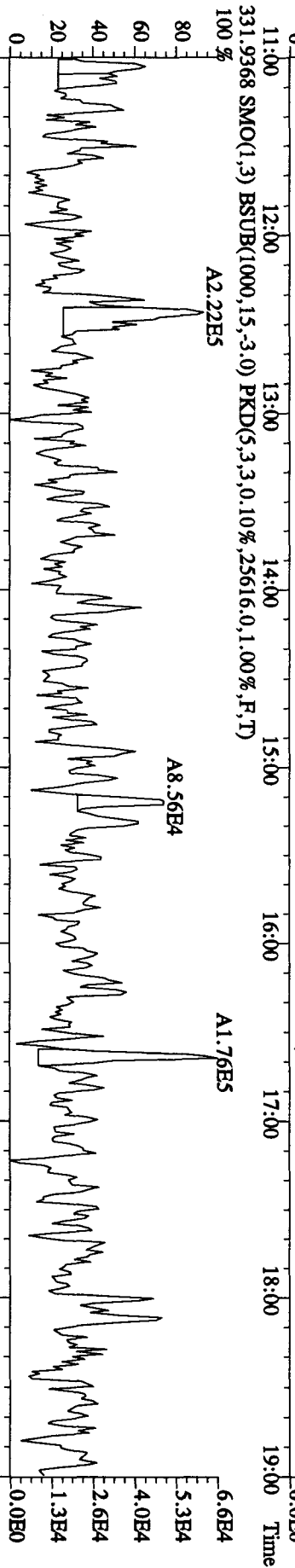
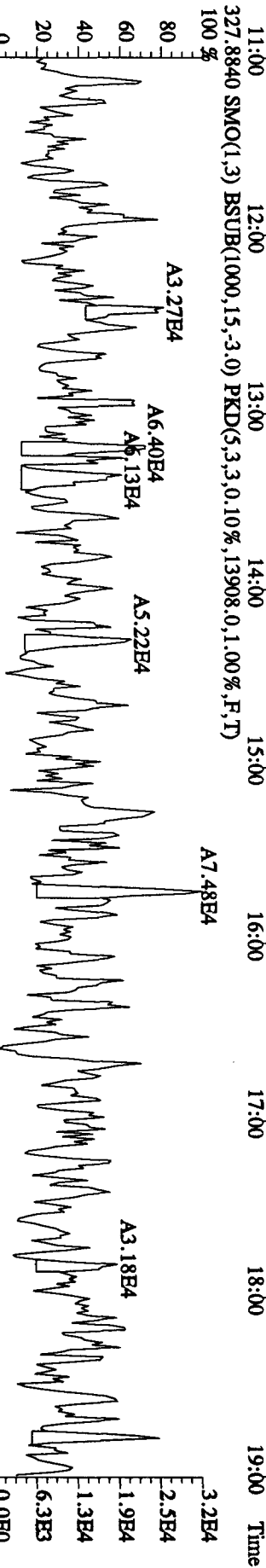
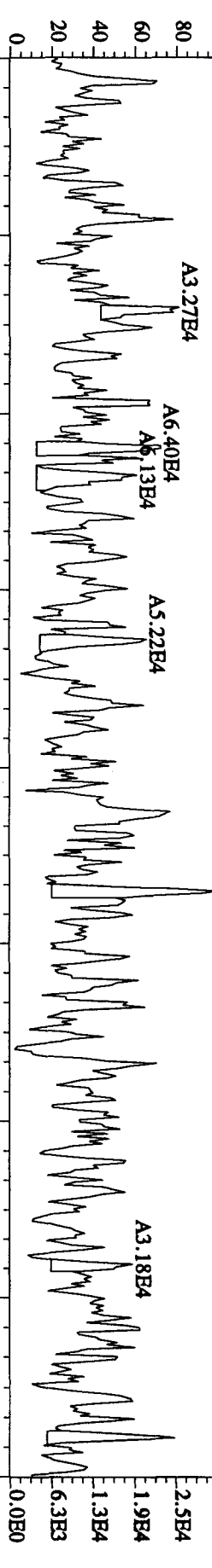
File:29AU10A5D2 #1-1241 Acq:29-AUG-2010 21:32:02 GC HI+ Voltage SIR 70SE  
 Sample#1 Text:CP0829A :DB-225 CPSM 3732-06 Exp:DB225RES  
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7832.0,1.00%,F,T)  
 100 %



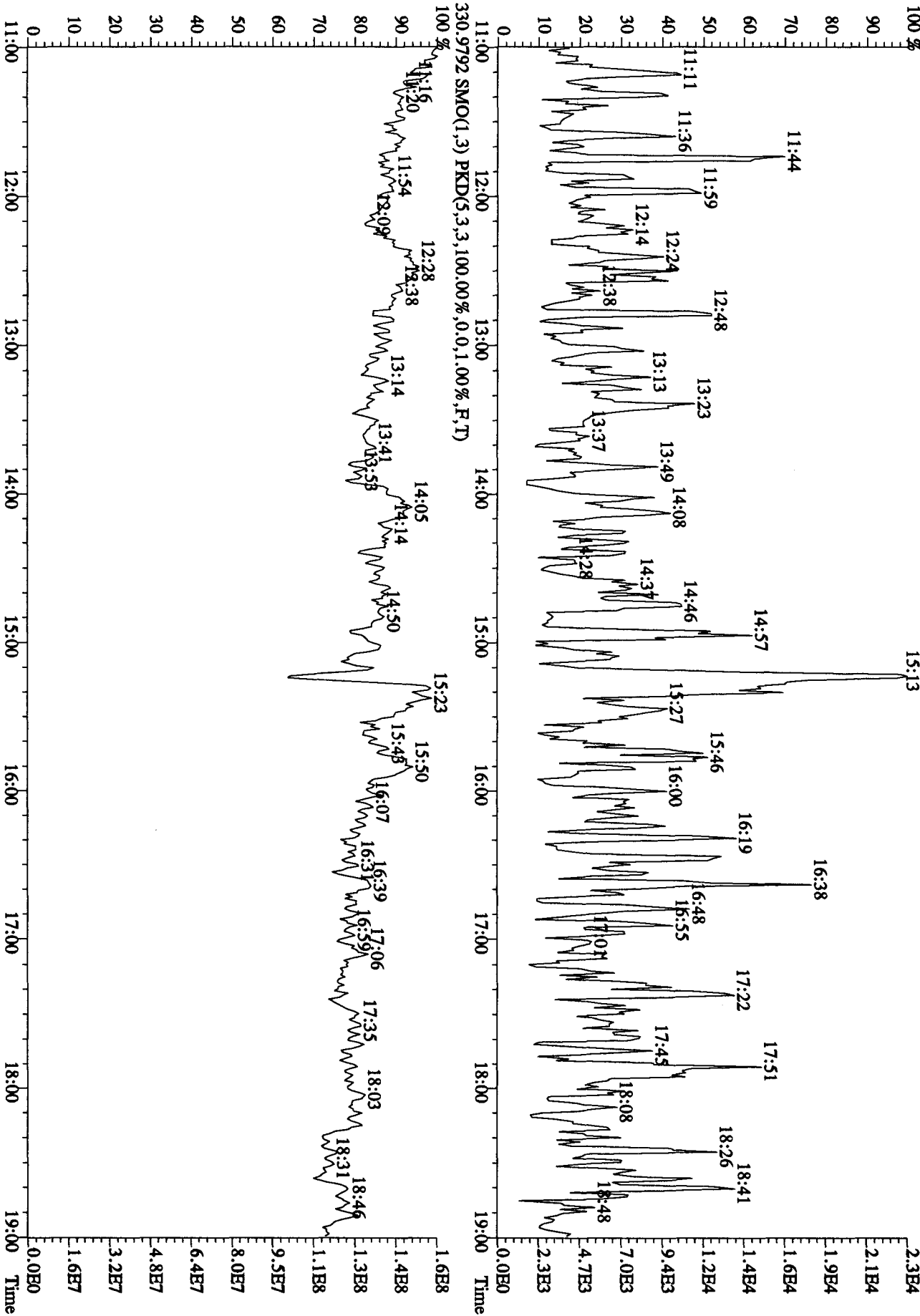
File:29AU10A5D2 #1-1241 Acq:29-AUG-2010 21:32:02 GC FI + Voltage SIR 70SE  
 Sample#1 Text:CP0829A :DB-225 CP5M 3732-06 Exp:DB225RES  
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7332.0,1.00%,F,T)  
 100% A4.85E4



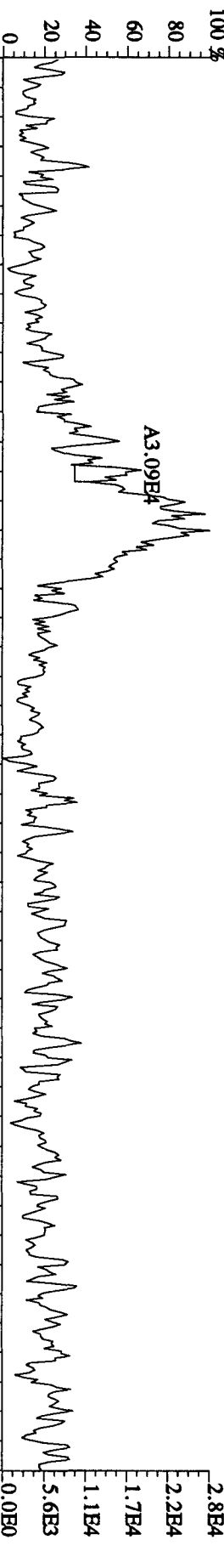
File:29AU10A5D2 #1-1241 Acq:29-AUG-2010 21:32:02 GC EI + Voltage SIR 70SE  
 Sample#1 Text:CP0829A :DB-225 CP5M 3732-06 Exp:DB225RES  
 327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13908.0,1.00%,F,T)  
 100 %



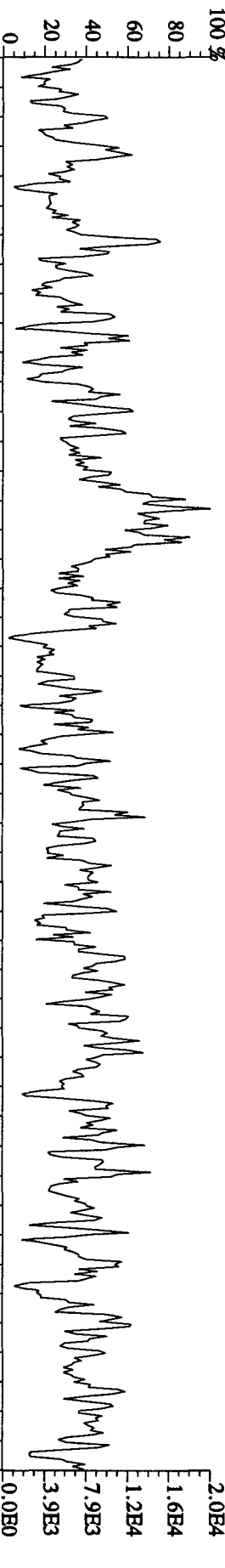
File:29AU10A5D2 #-1-1241 Acq:29-AUG-2010 21:32:02 GC EI + Voltage SIR 70SE  
 Sample#1 Text:CP0829A :DB-225 CPM 3732-06 Exp:DB225RES  
 375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,6880.0,1.00%,F,T)



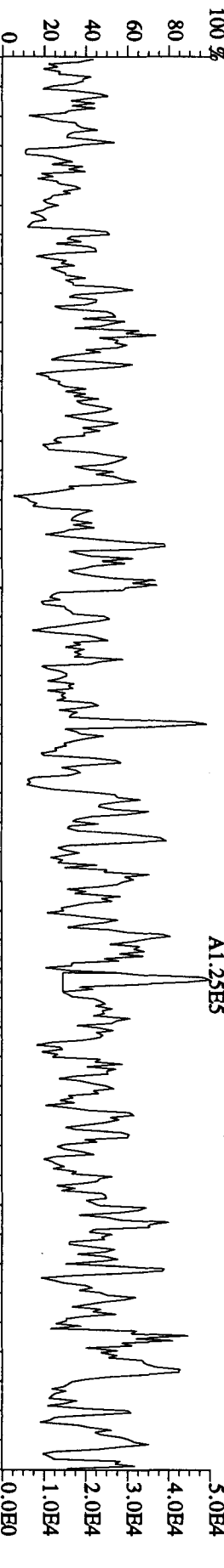
File: 29AU10A5D2 #1-1242 Acq: 29-AUG-2010 22:44:15 GC EI + Voltage SIR 70SE  
 Sample#3 Text: SB0829B :Solvent Blank C-14 Exp: DB225RES  
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6988,0,1,00%,F,T)



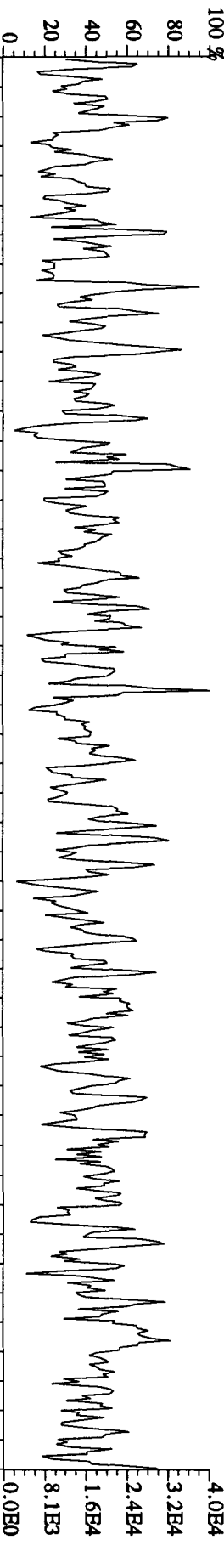
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9844,0,1,00%,F,T)



315.9419 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,28696,0,1,00%,F,T)

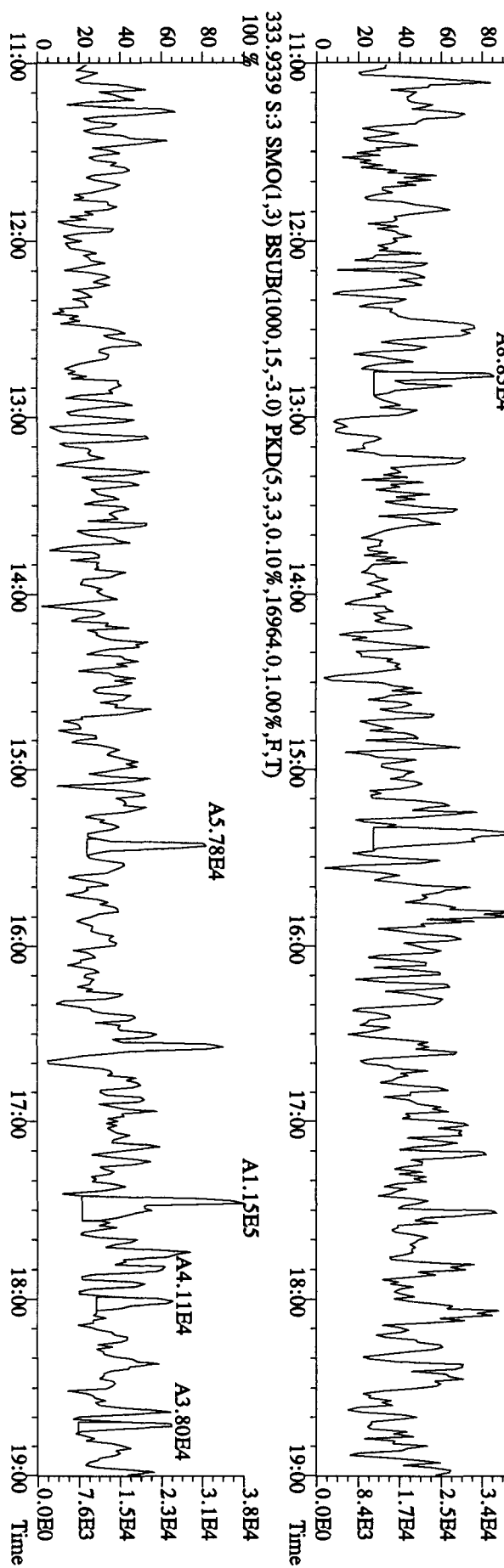
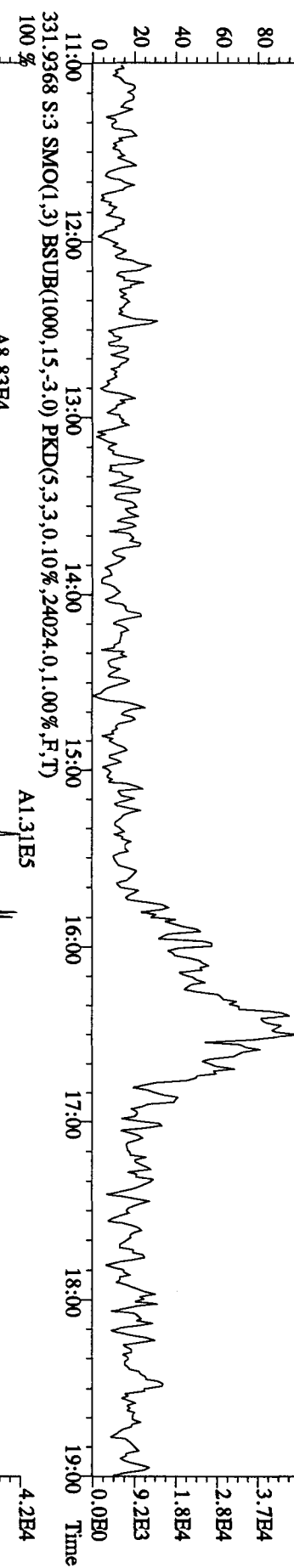
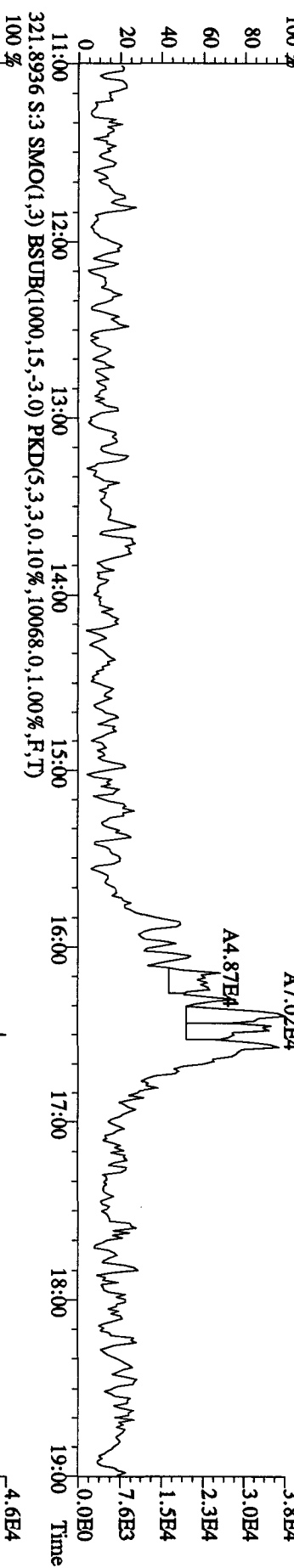


317.9389 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,23024,0,1,00%,F,T)

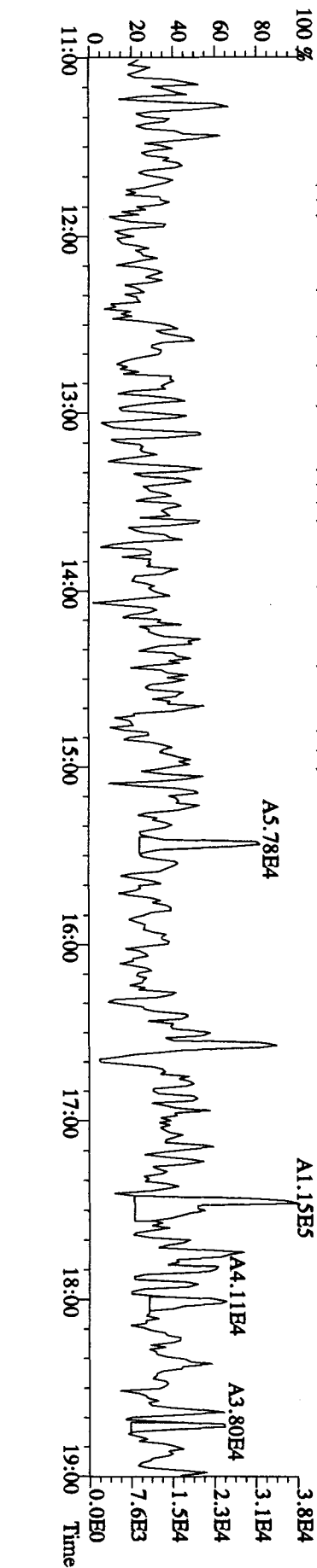
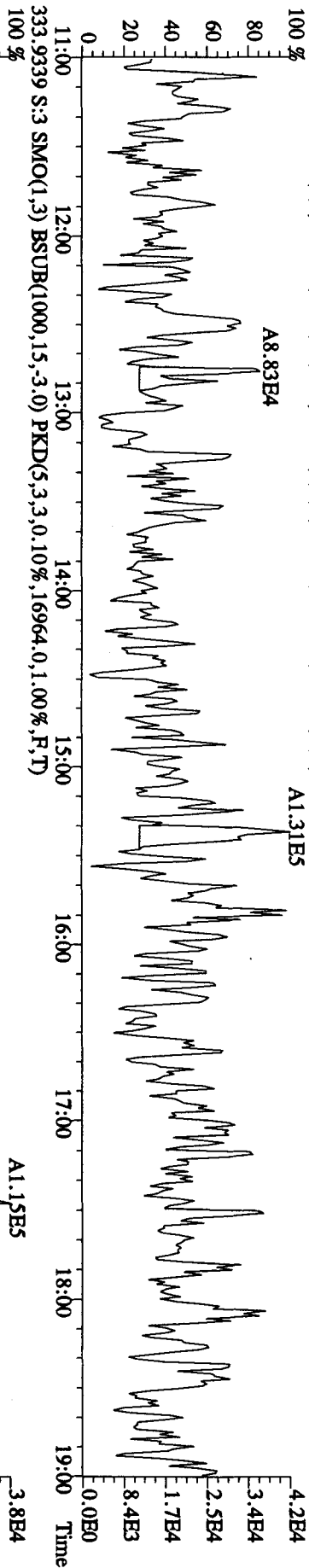
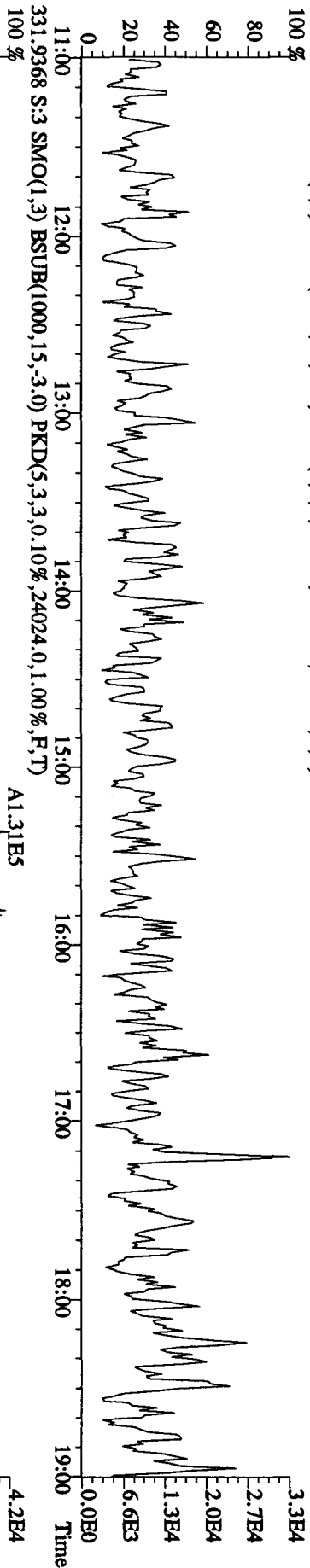
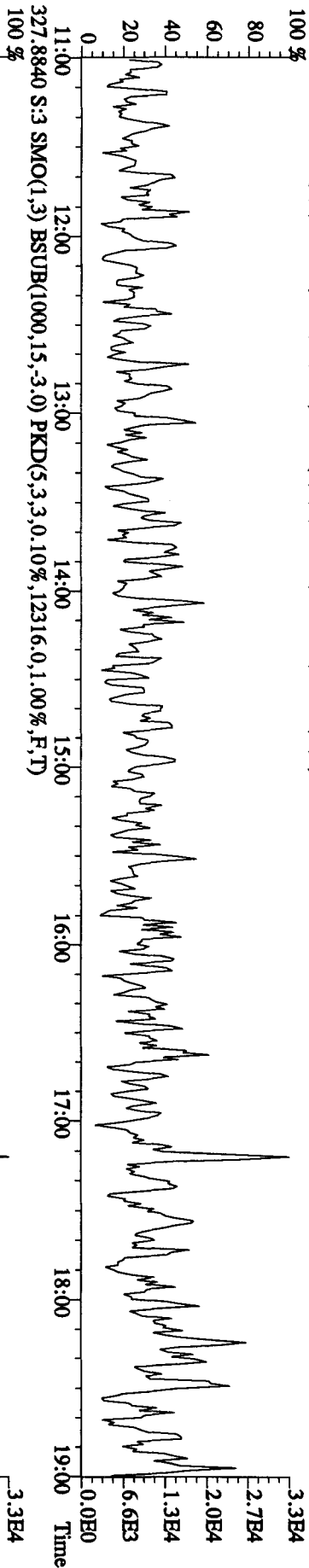




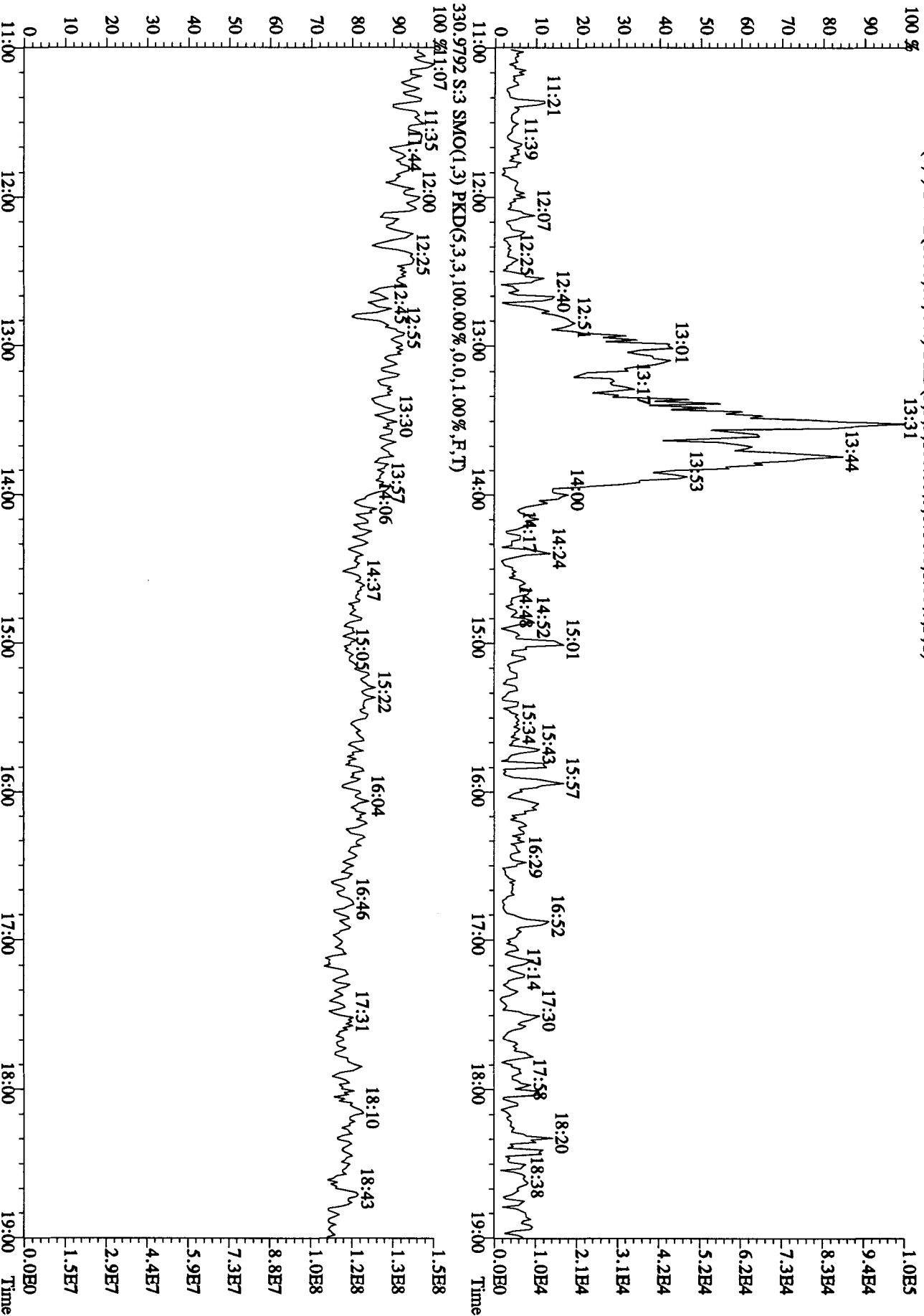
File:29AU10A5D2 #1-1242 Acq:29-AUG-2010 22:44:15 GC FI + Voltage SIR 70SE  
 Sample#3 Text:SB0829B :Solvent Blank C-14 Exp:DB225RES  
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7948.0,1.00%,F,T)



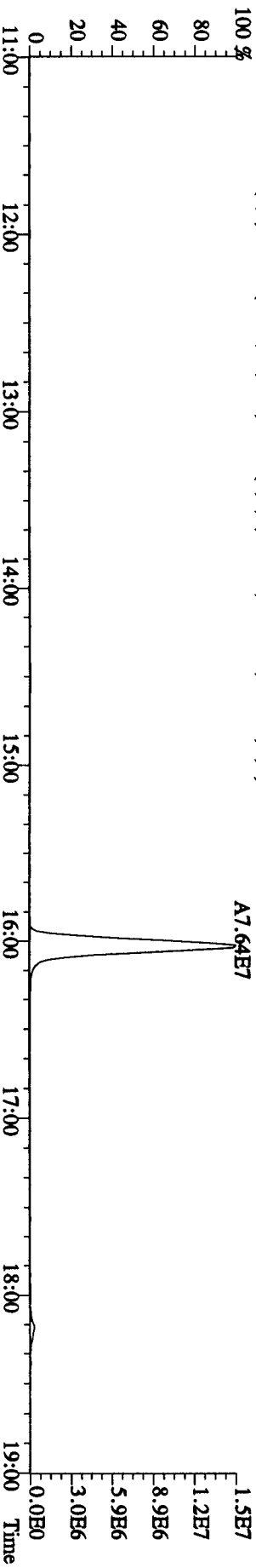
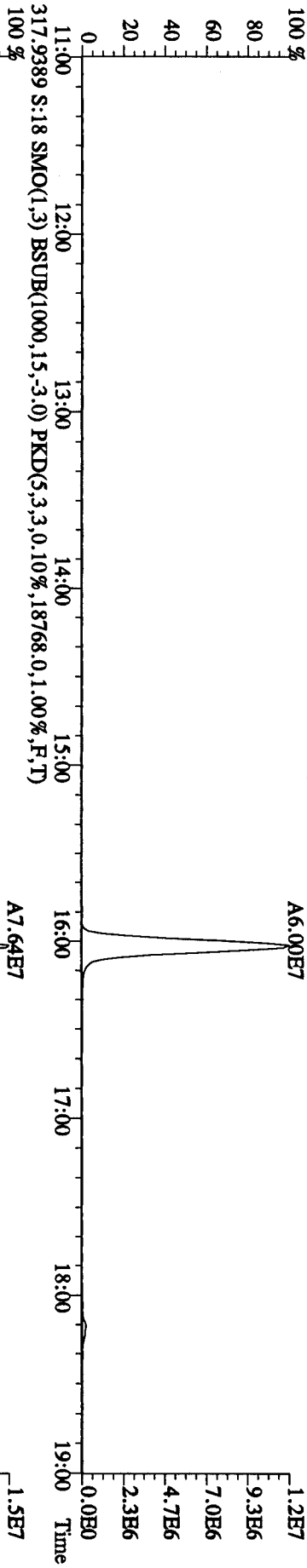
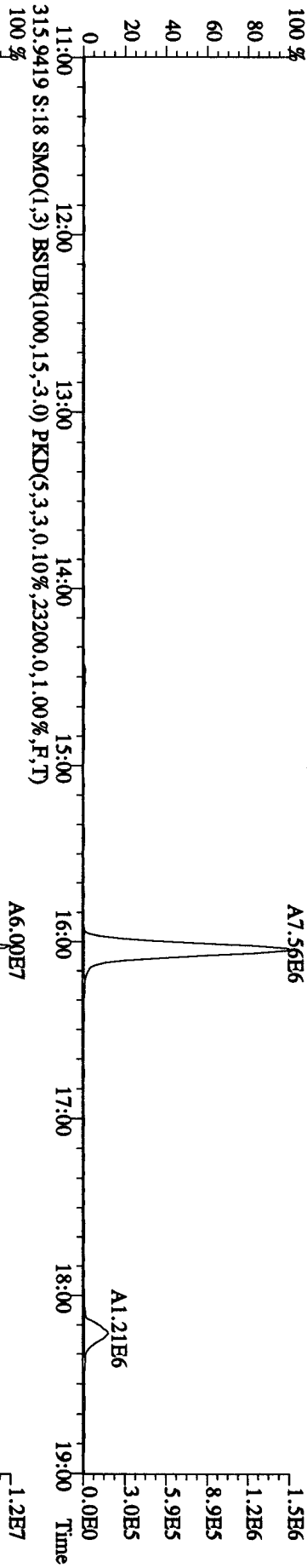
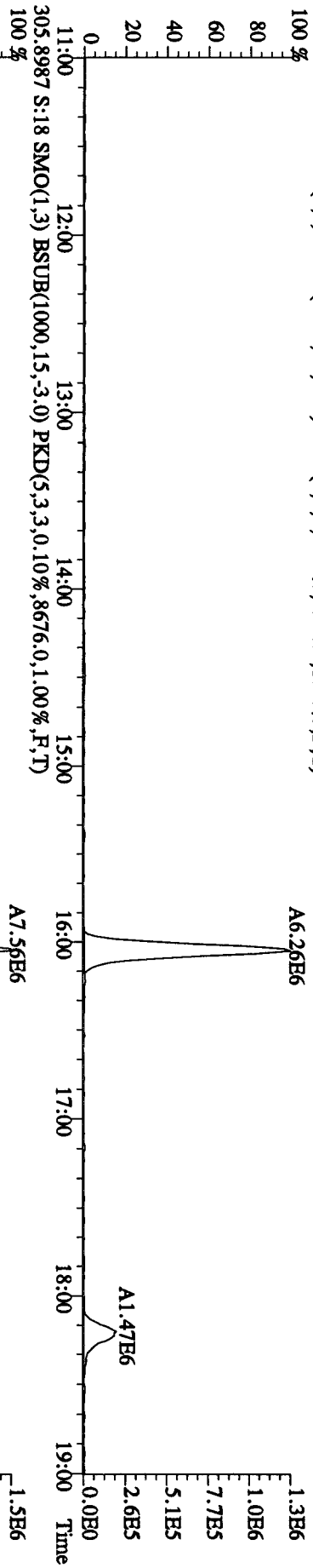
File:29AU10A5D2 #1-1242 Acq:29-AUG-2010 22:44:15 GC EI+ Voltage SIR 70SE  
 Sample#3 Text:SB0829B :Solvent Blank C-14 Exp:DB225RES  
 327.8840 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12316,0,1,00%,F,T)



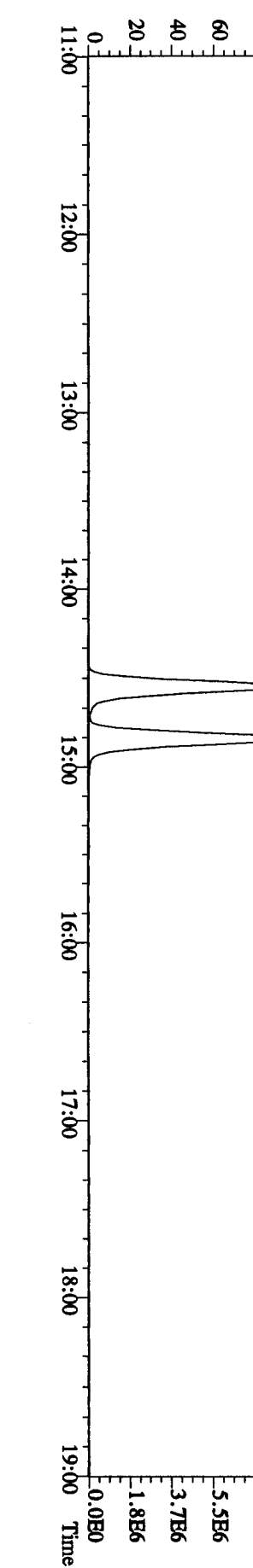
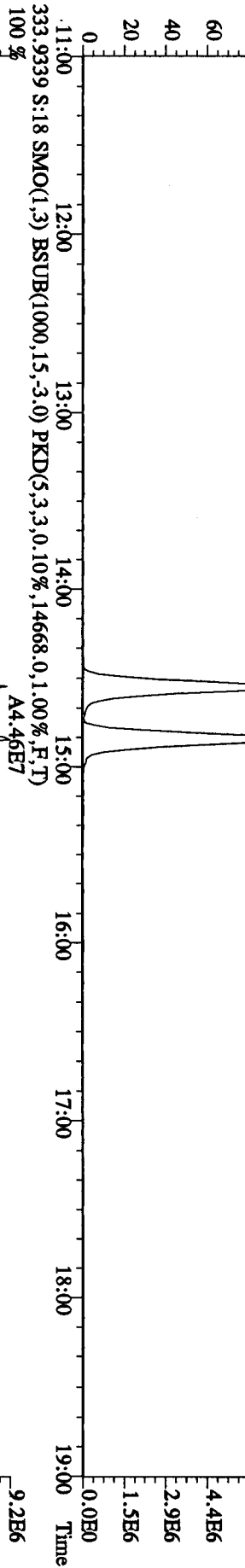
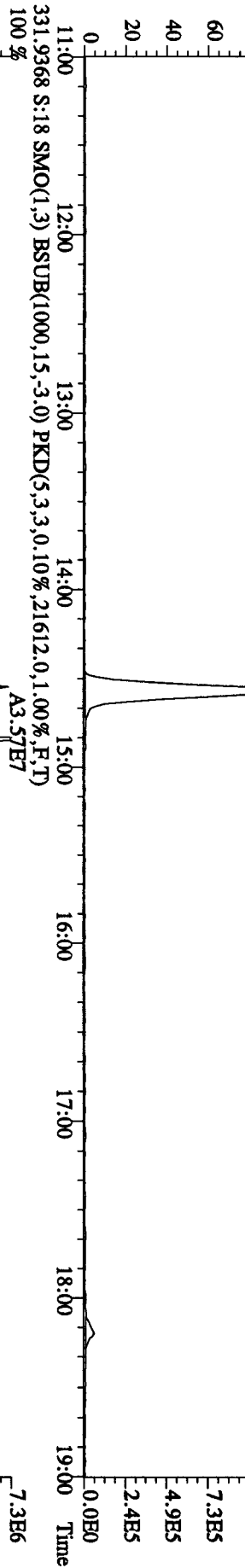
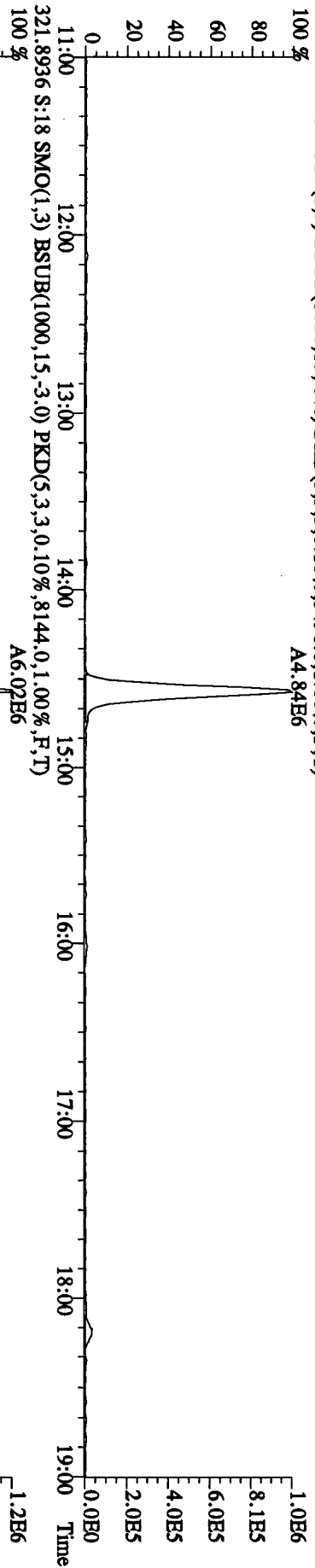
File: 29AUI0A5D2 #1-1242 Acq: 29-AUG-2010 22:44:15 GC EI + Voltage SIR 70SE  
 Sample#3 Text: SB0829B : Solvent Blank C-14 Exp: DB225RES  
 375.8364 S: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,6736.0,1.00%,F,T)  
 100 %



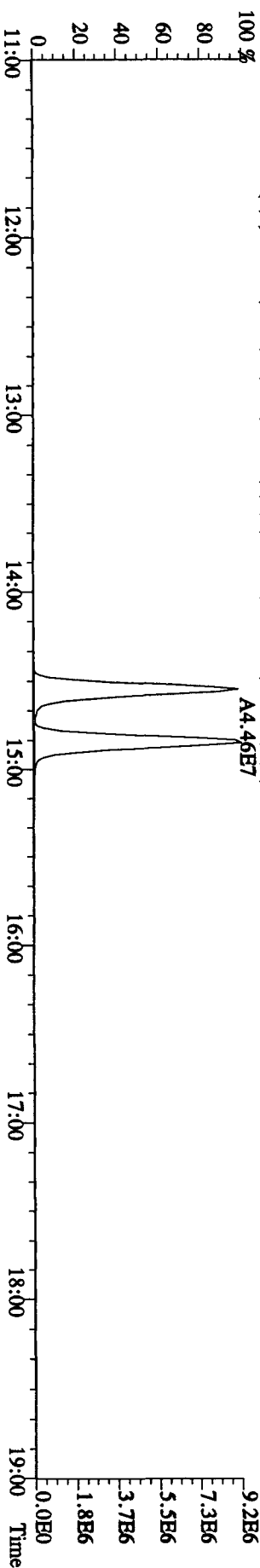
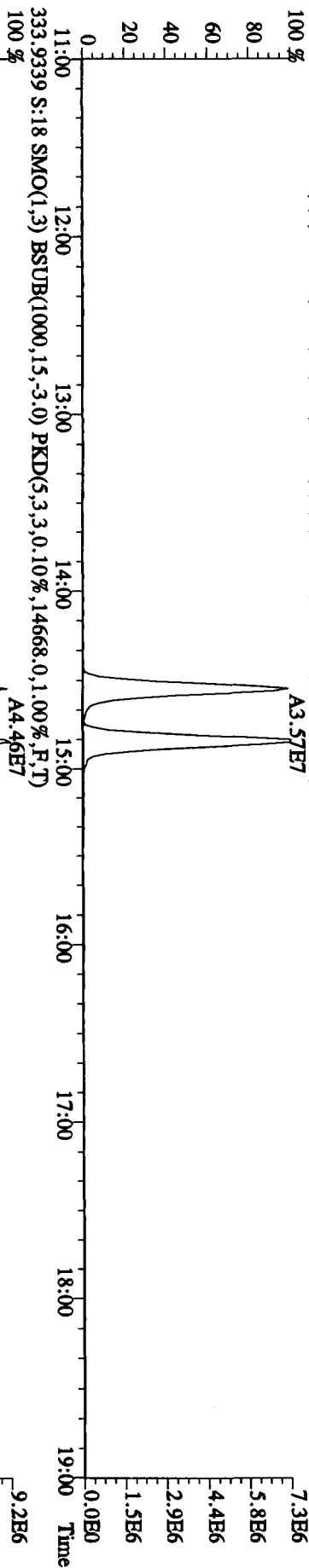
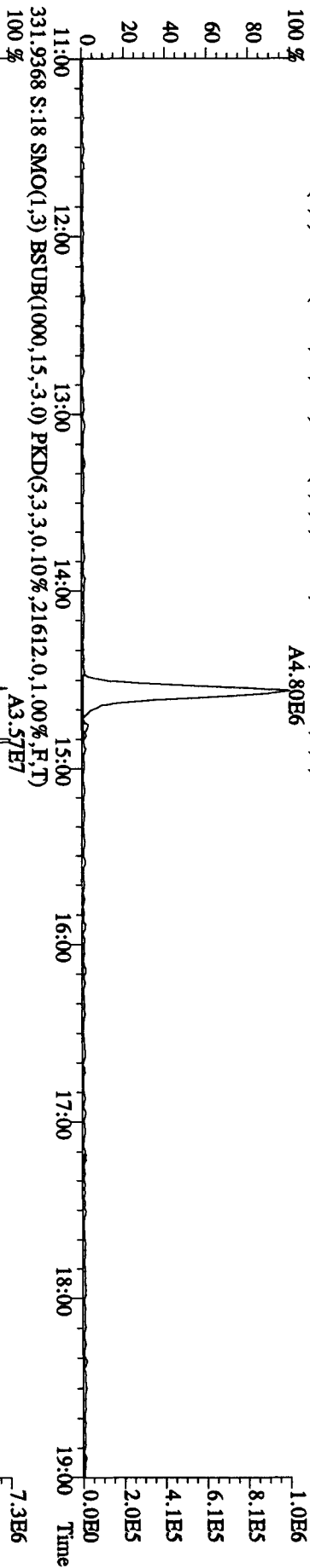
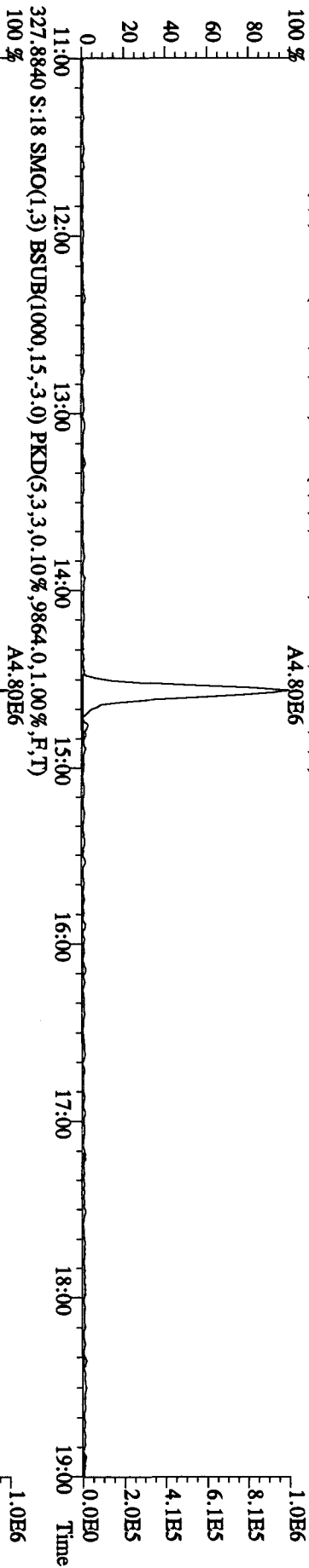
File:29AUI0A5D2 #1-1242 Acq:30-AUG-2010 07:46:33 GC EI + Voltage SIR 70SE  
 Sample#18 Text:ST0829C :CS3 10DXN417 Exp:DB225RES  
 303.9016 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5964,0.1,00%,F,T)  
 100 %



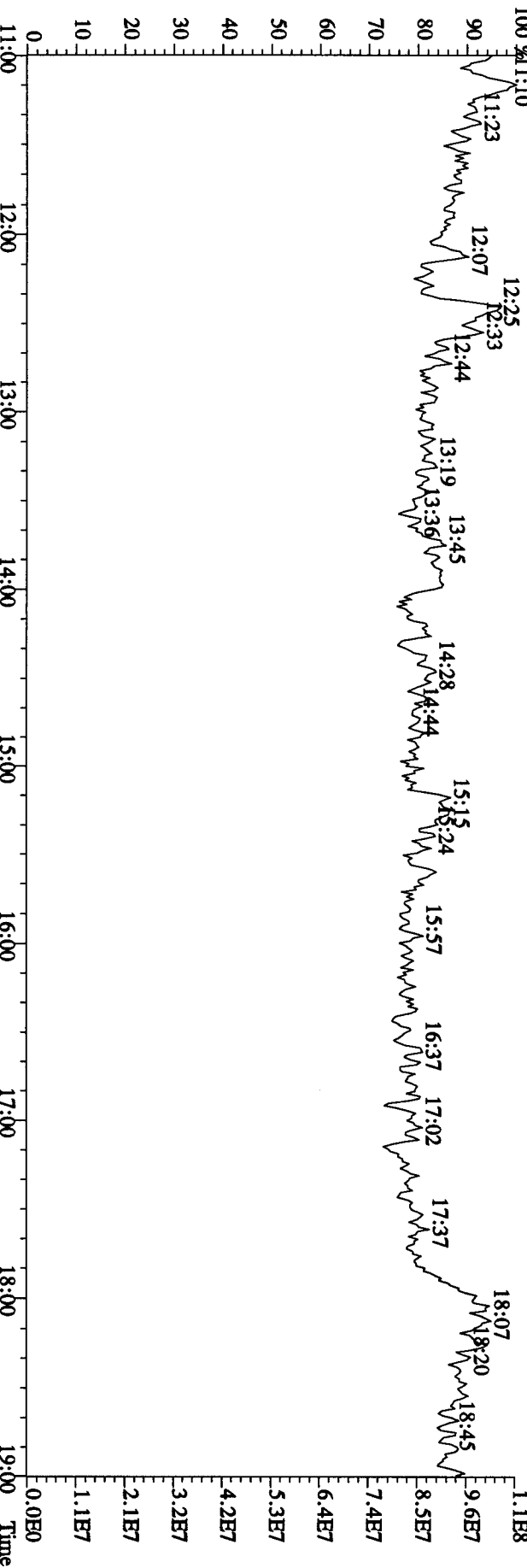
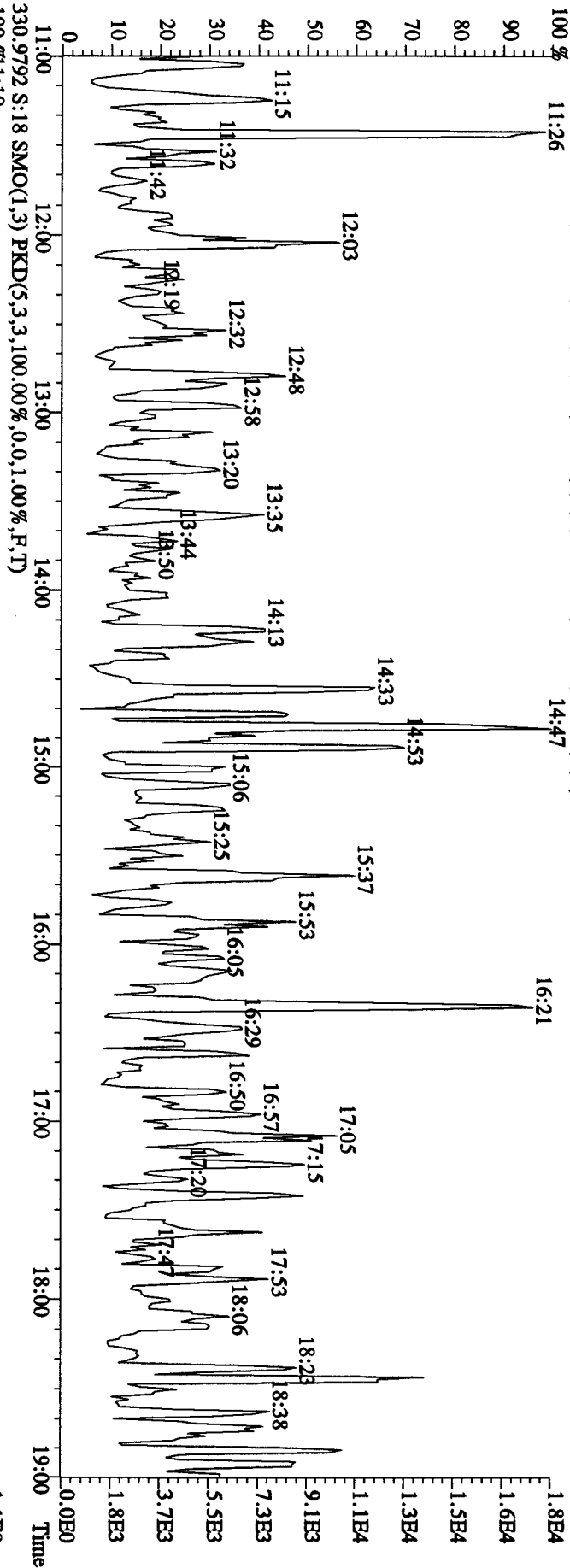
File:29AUI0A5D2\_#1-1242 Acq:30-AUG-2010 07:46:33 GC EI + Voltage SIR 70SE  
 Sample#18 Text:ST0829C :CS3 10DXN417 Exp:DB225RES  
 319.8965 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5496.0,1.00%,F,T)  
 100 % A4.84E6



File:29AU10A5D2 #1-1242 Acq:30-AUG-2010 07:46:33 GC EI+ Voltage SIR 70SE  
Sample#18 Text:ST0829C :CS3 10DXN417 Exp:DB225RES  
327.8840 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9864,0.1,00%,F,T)  
100% A4.80E6



File:29AUI0A5D2 #1-1242 Acq:30-AUG-2010 07:46:33 GC HI + Voltage SIR 70SE  
 Sample#18 Text:ST0829C :CS3 10DXN417 Exp:DB225RES  
 375.8364 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4324.0,1.00%,F,T)  
 100%



## **Initial Calibration**

*Includes (as applicable):*

*runlog*

*standard raw data*

*statistical summary*

*ms tune data*



Initial Calibration Checklist  
Dioxin Methods

ICAL ID (8290, 1613, T09, 23, 0023A, TETRAS) 0727101D5

Method ID 8290, 1613B, T09, 23, 0023A Date Scanned \_\_\_\_\_

Column ID DB5 Instrument ID 1D5

STD ID's ST0727 (C, A, -, E, D) STD Solution 100XN (342, 335, 326, 337, 339)

GC Program OCDD Multiplier Setting 270

Analyzed By M.G., A.M. Date Analyzed 7/27/10

Prepared By M.G. Date Prepared 7/28/10

Reviewed By JRB Date Reviewed 7/28/10

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 Retention Times      13C-1, 2, 3, 4-TCDD 17:47  
13C-1, 2, 3, 7, 8, 9-ACDD 32:13

\*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: 27JUL101D5 Analyte: TO9 Cal: TO90727101D5

ST0727C :CS1 10DXN342 ST0727A :CS2 10DXN335 ST0727 :CS3 10DXN336  
 ST0727E :CS4 10DXN337 ST0727D :CS5 10DXN339

27JUL101D5 27JUL101D5 27JUL101D5 27JUL101D5 27JUL101D5

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-

13C-2,3,7,8-TCDF	1.562	0.047	3.01 %	1.50	1.53	1.58	1.57	1.63
2,3,7,8-TCDF	0.875	0.124	14.2 %	0.72	0.80	0.87	1.00	0.99
Total TCDF	0.875	0.124	14.2 %	0.72	0.80	0.87	1.00	0.99

13C-2,3,7,8-TCDD	0.935	0.034	3.61 %	0.95	0.94	0.96	0.88	0.95
2,3,7,8-TCDD	0.957	0.129	13.5 %	0.84	0.83	0.93	1.09	1.10
Total TCDD	0.957	0.129	13.5 %	0.84	0.83	0.93	1.09	1.10

37Cl-2,3,7,8-TCDD	1.216	0.130	10.7 %	1.21	1.04	1.14	1.32	1.36
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13C-1,2,3,7,8-PeCDF	1.062	0.125	11.8 %	1.17	1.16	1.13	0.94	0.91
1,2,3,7,8-PeCDF	1.080	0.159	14.7 %	0.88	0.96	1.09	1.24	1.23
2,3,4,7,8-PeCDF	0.980	0.172	17.6 %	0.77	0.85	0.98	1.14	1.16
Total F2 PeCDF	1.030	0.165	16.1 %	0.82	0.91	1.04	1.19	1.19
Total F1 PeCDF	1.030	0.165	16.1 %	0.82	0.91	1.04	1.19	1.19

13C-1,2,3,7,8-PeCDD	0.646	0.051	7.89 %	0.70	0.69	0.66	0.59	0.59
1,2,3,7,8-PeCDD	0.925	0.137	14.8 %	0.75	0.82	0.95	1.04	1.06
Total PeCDD	0.925	0.137	14.8 %	0.75	0.82	0.95	1.04	1.06

13C-1,2,3,7,8-HxCDD	-	-	- %	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	0.986	0.051	5.22 %	1.02	1.00	1.04	0.97	0.91
1,2,3,4,7,8-HxCDF	1.153	0.147	12.7 %	0.95	1.06	1.20	1.26	1.30
1,2,3,6,7,8-HxCDF	1.243	0.165	13.3 %	0.99	1.17	1.31	1.36	1.39
2,3,4,6,7,8-HxCDF	1.218	0.140	11.5 %	1.02	1.13	1.29	1.29	1.36
1,2,3,7,8,9-HxCDF	1.185	0.124	10.5 %	1.03	1.09	1.25	1.24	1.33
Total HxCDF	1.200	0.143	11.9 %	1.00	1.11	1.26	1.29	1.34

13C-1,2,3,6,7,8-HxCDD	0.768	0.045	5.92 %	0.76	0.80	0.82	0.70	0.76
1,2,3,4,7,8-HxCDD	1.029	0.150	14.6 %	0.86	0.89	1.06	1.23	1.10

1,2,3,6,7,8-HxCDD	1.107	0.138	12.5 %	0.96	0.97	1.13	1.26	1.21
1,2,3,7,8,9-HxCDD	1.242	0.157	12.6 %	1.07	1.10	1.27	1.45	1.32
Total HxCDD	1.126	0.148	13.1 %	0.96	0.99	1.15	1.31	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.981	0.075	7.67 %	1.02	1.03	1.06	0.92	0.89
1,2,3,4,6,7,8-HpCDF	1.350	0.158	11.7 %	1.11	1.27	1.42	1.49	1.46
1,2,3,4,7,8,9-HpCDF	1.186	0.160	13.5 %	0.94	1.12	1.25	1.31	1.31
Total HpCDF	1.268	0.159	12.5 %	1.02	1.20	1.33	1.40	1.39
13C-1,2,3,4,6,7,8-HpCDD	0.806	0.065	8.01 %	0.84	0.84	0.87	0.74	0.74
1,2,3,4,6,7,8-HpCDD	1.026	0.139	13.6 %	0.83	0.93	1.07	1.16	1.14
Total HpCDD	1.026	0.139	13.6 %	0.83	0.93	1.07	1.16	1.14
13C-OCDD	0.615	0.037	5.96 %	0.60	0.63	0.67	0.58	0.59
OCDF	1.445	0.261	18.1 %	1.05	1.31	1.55	1.67	1.65
OCDD	1.090	0.145	13.3 %	0.88	1.00	1.14	1.23	1.20

Run #1 Filename 27JL101D5 S: 5 I: 1  
 Acquired: 27-JUL-10 10:54:32 Processed: 28-JUL-10 10:46:44  
 Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5

## Comments:

Sample text: ST0727C :CS1 10DXN342

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	290008000	0.80 y	17:46	-	100.00	n
13C-2,3,7,8-TCDF	435497000	0.79 y	17:16	1.50	100.00	n
2,3,7,8-TCDF	1561868	0.82 y	17:17	0.72	0.50	n
Total TCDF	-	- n	-	0.72	0.50	n
13C-2,3,7,8-TCDD	275638000	0.80 y	17:58	0.95	100.00	n
2,3,7,8-TCDD	1160297	0.83 y	17:59	0.84	0.50	n
Total TCDD	-	- n	-	0.84	0.50	n
37Cl-2,3,7,8-TCDD	1672554	1.00 y	17:59	1.21	0.50	n
13C-1,2,3,7,8-PeCDF	338446000	1.64 y	22:18	1.17	100.00	n
1,2,3,7,8-PeCDF	7424810	1.63 y	22:20	0.88	2.50	n
2,3,4,7,8-PeCDF	6530550	1.57 y	23:39	0.77	2.50	n
Total F2 PeCDF	-	- n	-	0.82	5.00	n
Total F1 PeCDF	-	- n	-	0.82	5.00	n
13C-1,2,3,7,8-PeCDD	201767000	1.58 y	24:22	0.70	100.00	n
1,2,3,7,8-PeCDD	3761620	1.60 y	24:23	0.75	2.50	n
Total PeCDD	-	- n	-	0.75	2.50	n
13C-1,2,3,7,8,9-HxCDD	226279900	1.31 y	32:14	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	229745100	0.52 y	30:30	1.02	100.00	n
1,2,3,4,7,8-HxCDF	5454290	1.26 y	30:31	0.95	2.50	n
1,2,3,6,7,8-HxCDF	5682240	1.29 y	30:43	0.99	2.50	n
2,3,4,6,7,8-HxCDF	5859690	1.24 y	31:34	1.02	2.50	n
1,2,3,7,8,9-HxCDF	5900500	1.20 y	32:27	1.03	2.50	n
Total HxCDF	-	- n	-	1.00	10.00	n
13C-1,2,3,6,7,8-HxCDD	171802100	1.28 y	31:52	0.76	100.00	n
1,2,3,4,7,8-HxCDD	3711860	1.19 y	31:47	0.86	2.50	n
1,2,3,6,7,8-HxCDD	4103090	1.15 y	31:53	0.96	2.50	n
1,2,3,7,8,9-HxCDD	4593330	1.23 y	32:15	1.07	2.50	n
Total HxCDD	-	- n	-	0.96	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	230180300	0.45 y	34:02	1.02	100.00	n
1,2,3,4,6,7,8-HpCDF	6378680	1.09 y	34:02	1.11	2.50	n
1,2,3,4,7,8,9-HpCDF	5393380	1.00 y	35:16	0.94	2.50	n
Total HpCDF	-	- n	-	1.02	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	191137600	1.07 y	34:55	0.84	100.00	n
1,2,3,4,6,7,8-HpCDD	3981580	1.02 y	34:56	0.83	2.50	n
Total HpCDD	-	- n	-	0.83	2.50	n
13C-OCDD	272834000	0.89 y	37:35	0.60	200.00	n
OCDF	7187320	0.82 y	37:41	1.05	5.00	n

OCDD 6022620 0.90 y 37:36 0.88 5.00 n

Run #2 Filename 27JL101D5 S: 3 I: 1  
 Acquired: 27-JUL-10 09:25:53 Processed: 28-JUL-10 10:46:45  
 Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5

## Comments:

Sample text: ST0727A :CS2 10DXN335

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	358235000	0.81 y	17:49	-	100.00	n
13C-2,3,7,8-TCDF	549716000	0.79 y	17:18	1.53	100.00	n
2,3,7,8-TCDF	8742170	0.79 y	17:19	0.80	2.00	n
Total TCDF	-	- n	-	0.80	2.00	n
13C-2,3,7,8-TCDD	338333000	0.80 y	18:00	0.94	100.00	n
2,3,7,8-TCDD	5608980	0.73 y	18:03	0.83	2.00	n
Total TCDD	-	- n	-	0.83	2.00	n
37Cl-2,3,7,8-TCDD	7067060	1.00 y	18:03	1.04	2.00	n
13C-1,2,3,7,8-PeCDF	416621000	1.63 y	22:21	1.16	100.00	n
1,2,3,7,8-PeCDF	40203800	1.63 y	22:23	0.96	10.00	n
2,3,4,7,8-PeCDF	35269200	1.63 y	23:42	0.85	10.00	n
Total F2 PeCDF	-	- n	-	0.91	20.00	n
Total F1 PeCDF	-	- n	-	0.91	20.00	n
13C-1,2,3,7,8-PeCDD	247682700	1.60 y	24:25	0.69	100.00	n
1,2,3,7,8-PeCDD	20411880	1.61 y	24:27	0.82	10.00	n
Total PeCDD	-	- n	-	0.82	10.00	n
13C-1,2,3,7,8,9-HxCDD	276092000	1.28 y	32:15	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	275825600	0.52 y	30:32	1.00	100.00	n
1,2,3,4,7,8-HxCDF	29120300	1.29 y	30:34	1.06	10.00	n
1,2,3,6,7,8-HxCDF	32205300	1.27 y	30:45	1.17	10.00	n
2,3,4,6,7,8-HxCDF	31031100	1.23 y	31:35	1.13	10.00	n
1,2,3,7,8,9-HxCDF	29940000	1.27 y	32:28	1.09	10.00	n
Total HxCDF	-	- n	-	1.11	40.00	n
13C-1,2,3,6,7,8-HxCDD	221394000	1.28 y	31:54	0.80	100.00	n
1,2,3,4,7,8-HxCDD	19804130	1.26 y	31:48	0.89	10.00	n
1,2,3,6,7,8-HxCDD	21514430	1.26 y	31:55	0.97	10.00	n
1,2,3,7,8,9-HxCDD	24418100	1.24 y	32:16	1.10	10.00	n
Total HxCDD	-	- n	-	0.99	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	283149300	0.44 y	34:02	1.03	100.00	n
1,2,3,4,6,7,8-HpCDF	36087500	1.05 y	34:03	1.27	10.00	n
1,2,3,4,7,8,9-HpCDF	31656400	1.06 y	35:17	1.12	10.00	n
Total HpCDF	-	- n	-	1.20	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	231831000	1.05 y	34:56	0.84	100.00	n
1,2,3,4,6,7,8-HpCDD	21621900	1.06 y	34:57	0.93	10.00	n
Total HpCDD	-	- n	-	0.93	10.00	n
13C-OCDD	349679000	0.90 y	37:36	0.63	200.00	n
OCDF	45752000	0.85 y	37:42	1.31	20.00	n
OCDD	35083200	0.88 y	37:37	1.00	20.00	n

Run #3    Filename 27JL101D5    S: 2    I: 1  
 Acquired: 27-JUL-10 08:41:56    Processed: 28-JUL-10 10:46:45  
 Run: 27JL101D5    Analyte: TO9    Cal: TO90727101D5

## Comments:

Sample text: ST0727 :CS3 10DXN336

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	334400000	0.79 y	17:47	-	100.00	n
13C-2,3,7,8-TCDF	527329000	0.78 y	17:16	1.58	100.00	n
2,3,7,8-TCDF	45666300	0.76 y	17:17	0.87	10.00	n
Total TCDF	-	- n	-	0.87	10.00	n
13C-2,3,7,8-TCDD	321115000	0.78 y	17:58	0.96	100.00	n
2,3,7,8-TCDD	29946400	0.74 y	18:00	0.93	10.00	n
Total TCDD	-	- n	-	0.93	10.00	n
37Cl-2,3,7,8-TCDD	36635800	1.00 y	18:00	1.14	10.00	n
13C-1,2,3,7,8-PeCDF	377078000	1.64 y	22:19	1.13	100.00	n
1,2,3,7,8-PeCDF	205898000	1.60 y	22:20	1.09	50.00	n
2,3,4,7,8-PeCDF	185427100	1.61 y	23:40	0.98	50.00	n
Total F2 PeCDF	-	- n	-	1.04	100.00	n
Total F1 PeCDF	-	- n	-	1.04	100.00	n
13C-1,2,3,7,8-PeCDD	220236300	1.60 y	24:22	0.66	100.00	n
1,2,3,7,8-PeCDD	104925300	1.63 y	24:23	0.95	50.00	n
Total PeCDD	-	- n	-	0.95	50.00	n
13C-1,2,3,7,8,9-HxCDD	251101000	1.30 y	32:13	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	261637600	0.51 y	30:30	1.04	100.00	n
1,2,3,4,7,8-HxCDF	157129700	1.27 y	30:32	1.20	50.00	n
1,2,3,6,7,8-HxCDF	171355300	1.26 y	30:43	1.31	50.00	n
2,3,4,6,7,8-HxCDF	168789000	1.26 y	31:34	1.29	50.00	n
1,2,3,7,8,9-HxCDF	163410000	1.27 y	32:27	1.25	50.00	n
Total HxCDF	-	- n	-	1.26	200.00	n
13C-1,2,3,6,7,8-HxCDD	205232800	1.30 y	31:53	0.82	100.00	n
1,2,3,4,7,8-HxCDD	108503800	1.25 y	31:46	1.06	50.00	n
1,2,3,6,7,8-HxCDD	116253900	1.29 y	31:54	1.13	50.00	n
1,2,3,7,8,9-HxCDD	130636400	1.24 y	32:14	1.27	50.00	n
Total HxCDD	-	- n	-	1.15	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	265981000	0.44 y	34:01	1.06	100.00	n
1,2,3,4,6,7,8-HpCDF	188339000	1.04 y	34:02	1.42	50.00	n
1,2,3,4,7,8,9-HpCDF	166526200	1.03 y	35:16	1.25	50.00	n
Total HpCDF	-	- n	-	1.33	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	218845000	1.07 y	34:56	0.87	100.00	n
1,2,3,4,6,7,8-HpCDD	117183200	1.05 y	34:56	1.07	50.00	n
Total HpCDD	-	- n	-	1.07	50.00	n
13C-OCDD	336587000	0.90 y	37:34	0.67	200.00	n
OCDF	260293000	0.90 y	37:41	1.55	100.00	n
OCDD	191327900	0.89 y	37:35	1.14	100.00	n

Run #4 Filename 27JL101D5 S: 7 I: 1  
 Acquired: 27-JUL-10 12:22:47 Processed: 28-JUL-10 10:46:46  
 Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5

Comments:

Sample text: ST0727E :CS4 10DXN337

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	439754000	0.81 y	17:47	-	100.00	n
13C-2,3,7,8-TCDF	689860000	0.79 y	17:16	1.57	100.00	n
2,3,7,8-TCDF	277268000	0.77 y	17:17	1.00	40.00	n
Total TCDF	-	- n	-	1.00	40.00	n
13C-2,3,7,8-TCDD	385234000	0.81 y	18:00	0.88	100.00	n
2,3,7,8-TCDD	167431300	0.78 y	18:01	1.09	40.00	n
Total TCDD	-	- n	-	1.09	40.00	n
37Cl-2,3,7,8-TCDD	203446000	1.00 y	18:01	1.32	40.00	n
13C-1,2,3,7,8-PeCDF	413666000	1.65 y	22:20	0.94	100.00	n
1,2,3,7,8-PeCDF	1024585000	1.56 y	22:22	1.24	200.00	n
2,3,4,7,8-PeCDF	944785000	1.58 y	23:41	1.14	200.00	n
Total F2 PeCDF	-	- n	-	1.19	400.00	n
Total F1 PeCDF	-	- n	-	1.19	400.00	n
13C-1,2,3,7,8-PeCDD	261603000	1.60 y	24:23	0.59	100.00	n
1,2,3,7,8-PeCDD	545134000	1.58 y	24:24	1.04	200.00	n
Total PeCDD	-	- n	-	1.04	200.00	n
13C-1,2,3,7,8,9-HxCDD	317606000	1.26 y	32:14	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	306698000	0.52 y	30:30	0.97	100.00	n
1,2,3,4,7,8-HxCDF	772679000	1.25 y	30:32	1.26	200.00	n
1,2,3,6,7,8-HxCDF	832427000	1.25 y	30:43	1.36	200.00	n
2,3,4,6,7,8-HxCDF	793927000	1.23 y	31:35	1.29	200.00	n
1,2,3,7,8,9-HxCDF	758587000	1.24 y	32:27	1.24	200.00	n
Total HxCDF	-	- n	-	1.29	800.00	n
13C-1,2,3,6,7,8-HxCDD	222495700	1.28 y	31:52	0.70	100.00	n
1,2,3,4,7,8-HxCDD	545186000	1.26 y	31:47	1.23	200.00	n
1,2,3,6,7,8-HxCDD	560584000	1.26 y	31:53	1.26	200.00	n
1,2,3,7,8,9-HxCDD	645069000	1.24 y	32:15	1.45	200.00	n
Total HxCDD	-	- n	-	1.31	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	291296600	0.45 y	34:02	0.92	100.00	n
1,2,3,4,6,7,8-HpCDF	866261000	1.04 y	34:03	1.49	200.00	n
1,2,3,4,7,8,9-HpCDF	763538000	1.05 y	35:17	1.31	200.00	n
Total HpCDF	-	- n	-	1.40	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	233827000	1.10 y	34:56	0.74	100.00	n
1,2,3,4,6,7,8-HpCDD	541594000	1.06 y	34:56	1.16	200.00	n
Total HpCDD	-	- n	-	1.16	200.00	n
13C-OCDD	370291000	0.89 y	37:35	0.58	200.00	n
OCDF	1237163000	0.91 y	37:42	1.67	400.00	n
OCDD	911682000	0.89 y	37:36	1.23	400.00	n



Run #5 Filename 27JL101D5 S: 6 I: 1  
 Acquired: 27-JUL-10 11:38:49 Processed: 28-JUL-10 10:46:47  
 Run: 27JL101D5 Analyte: TO9 Cal: TO90727101D5

## Comments:

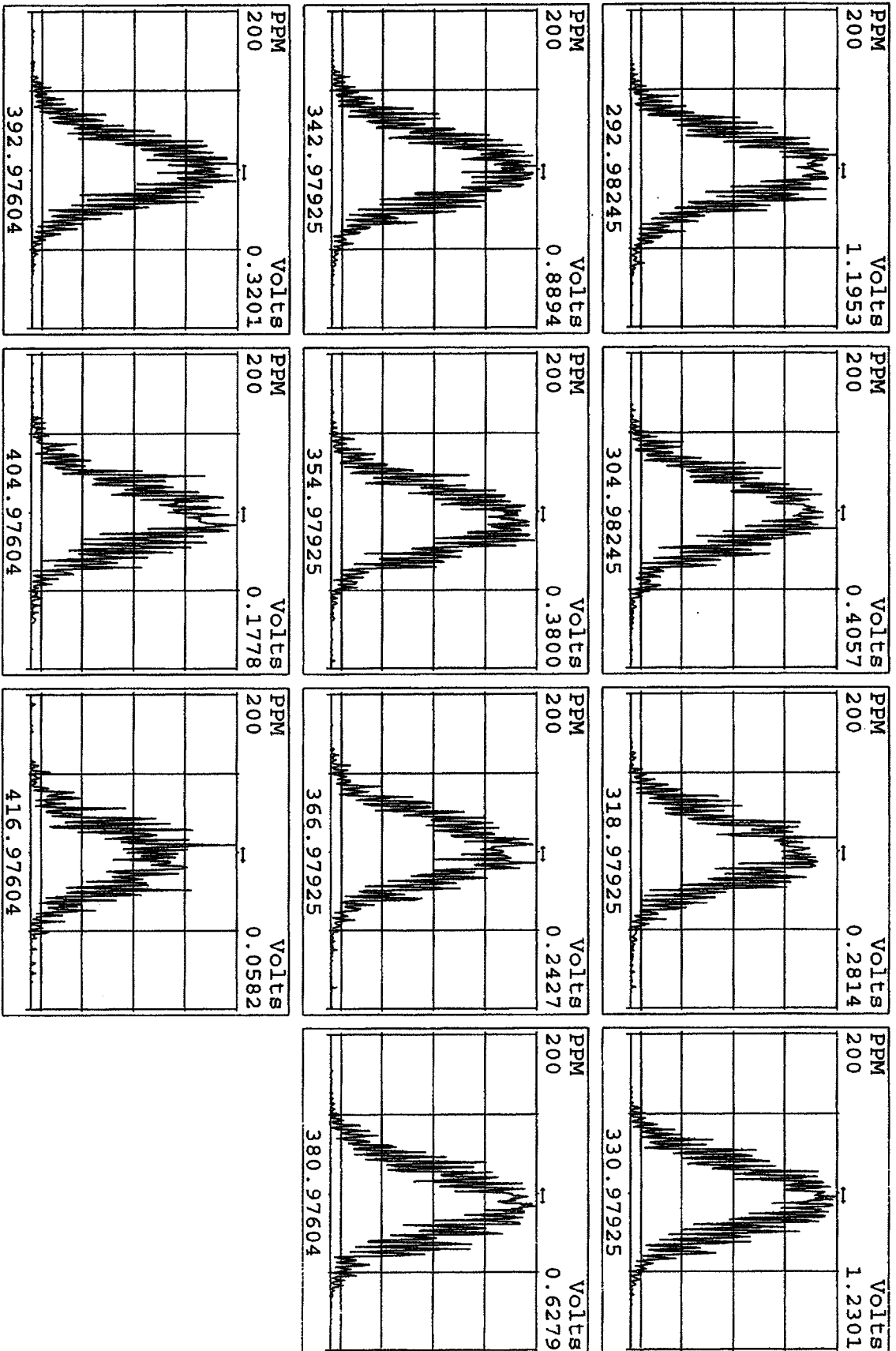
Sample text: ST0727D :CS5 10DXN339

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	459768000	0.81 y	17:47	-	100.00	n
13C-2,3,7,8-TCDF	747848000	0.78 y	17:15	1.63	100.00	n
2,3,7,8-TCDF	1483369000	0.77 y	17:16	0.99	200.00	n
Total TCDF	-	- n	-	0.99	200.00	n
13C-2,3,7,8-TCDD	434694000	0.79 y	17:59	0.95	100.00	n
2,3,7,8-TCDD	953295000	0.79 y	18:00	1.10	200.00	n
Total TCDD	-	- n	-	1.10	200.00	n
37Cl-2,3,7,8-TCDD	1184054000	1.00 y	18:00	1.36	200.00	n
13C-1,2,3,7,8-PeCDF	419044000	1.63 y	22:19	0.91	100.00	n
1,2,3,7,8-PeCDF	5139790000	1.56 y	22:21	1.23	1000.00	n
2,3,4,7,8-PeCDF	4850270000	1.57 y	23:40	1.16	1000.00	n
Total F2 PeCDF	-	- n	-	1.19	2000.00	n
Total F1 PeCDF	-	- n	-	1.19	2000.00	n
13C-1,2,3,7,8-PeCDD	271455000	1.61 y	24:22	0.59	100.00	n
1,2,3,7,8-PeCDD	2875680000	1.56 y	24:23	1.06	1000.00	n
Total PeCDD	-	- n	-	1.06	1000.00	n
13C-1,2,3,7,8,9-HxCDD	350301000	1.29 y	32:14	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	318202000	0.51 y	30:31	0.91	100.00	n
1,2,3,4,7,8-HxCDF	4140410000	1.24 y	30:32	1.30	1000.00	n
1,2,3,6,7,8-HxCDF	4424340000	1.24 y	30:43	1.39	1000.00	n
2,3,4,6,7,8-HxCDF	4323300000	1.24 y	31:34	1.36	1000.00	n
1,2,3,7,8,9-HxCDF	4221010000	1.25 y	32:27	1.33	1000.00	n
Total HxCDF	-	- n	-	1.34	4000.00	n
13C-1,2,3,6,7,8-HxCDD	266414000	1.29 y	31:53	0.76	100.00	n
1,2,3,4,7,8-HxCDD	2938460000	1.25 y	31:47	1.10	1000.00	n
1,2,3,6,7,8-HxCDD	3233110000	1.26 y	31:54	1.21	1000.00	n
1,2,3,7,8,9-HxCDD	3508170000	1.26 y	32:15	1.32	1000.00	n
Total HxCDD	-	- n	-	1.21	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	310147400	0.45 y	34:02	0.89	100.00	n
1,2,3,4,6,7,8-HpCDF	4535100000	1.04 y	34:03	1.46	1000.00	n
1,2,3,4,7,8,9-HpCDF	4072190000	1.05 y	35:16	1.31	1000.00	n
Total HpCDF	-	- n	-	1.39	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	257954000	1.07 y	34:56	0.74	100.00	n
1,2,3,4,6,7,8-HpCDD	2932190000	1.05 y	34:57	1.14	1000.00	n
Total HpCDD	-	- n	-	1.14	1000.00	n
13C-OCDD	410807000	0.90 y	37:35	0.59	200.00	n
OCDF	6759670000	0.92 y	37:42	1.65	2000.00	n
OCDD	4919940000	0.89 y	37:36	1.20	2000.00	n

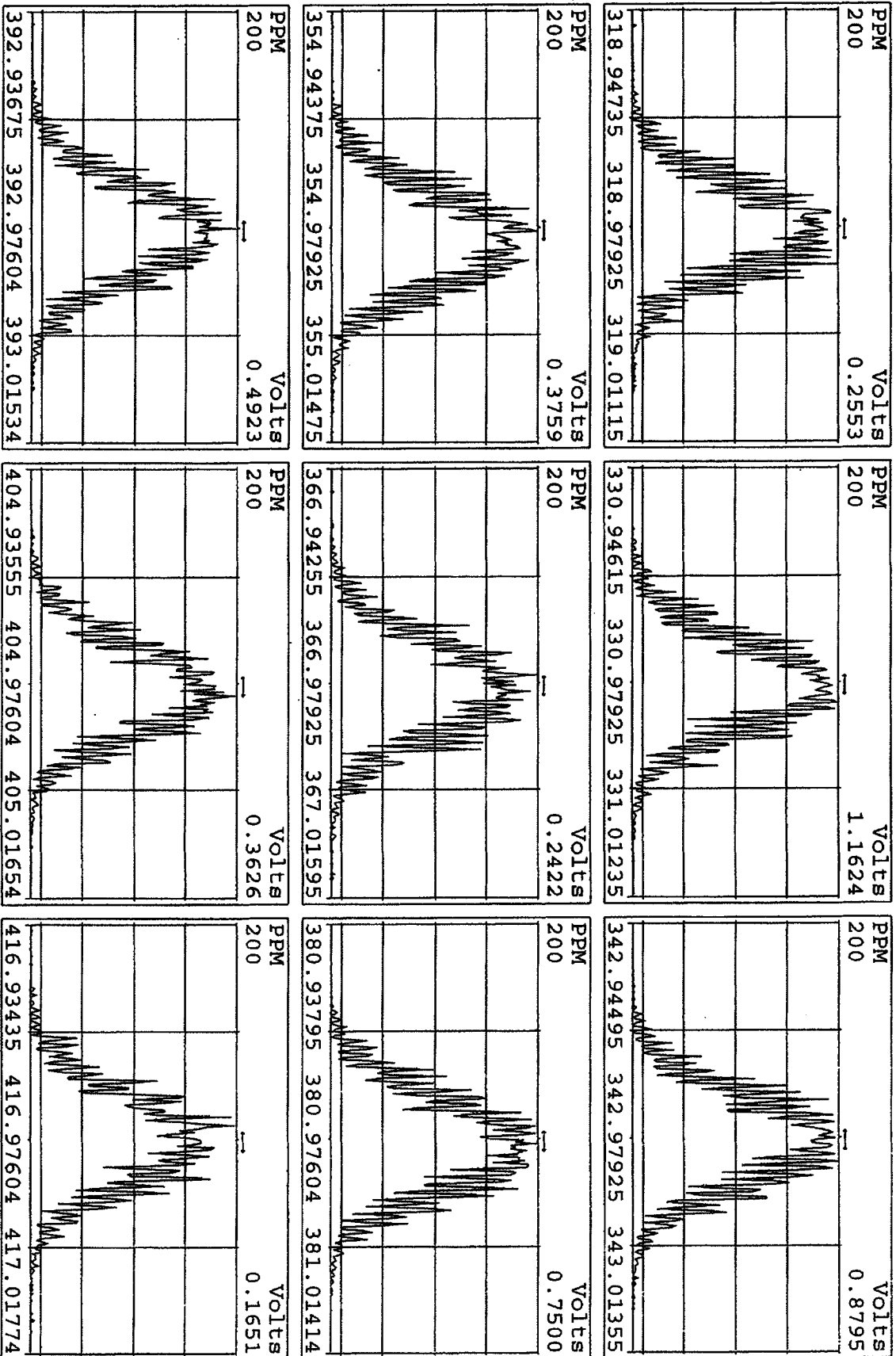
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
27JL101D5	1	CP0727	DB-5 CPSM 3732-07				1.00000	
27JL101D5	2	ST0727	CS3 10DXN336				1.00000	
27JL101D5	3	ST0727A	CS2 10DXN335				1.00000	
27JL101D5	4	ST0727B	CS1 10DXN342 - native TCDF out of ratio				1.00000	
27JL101D5	5	ST0727C	CS1 10DXN342				1.00000	
27JL101D5	6	ST0727D	CS5 10DXN339				1.00000	
27JL101D5	7	ST0727E	CS4 10DXN337				1.00000	
27JL101D5	8	ST0727F	2nd Source 10DXN340				1.00000	
27JL101D5	9	ST0727G	CS3 10DXN336				1.00000	
27JL101D5	10	CP0727A	DB-5 CPSM 3732-07				1.00000	
27JL101D5	11	L4LM1-1-AAB	G0G230000-245B	20	8290/SOLID	70	10.00000	g
27JL101D5	12	L4LM1-1-ACC	G0G230000-245C	20	8290/SOLID		10.00000	g
27JL101D5	13	L4K1D-1-AA	G0G230451-1	20	8290/SOLID		10.70000	g
27JL101D5	14	L4K1D-1-AFS	G0G230451-1S	20	8290/SOLID		10.04000	g
27JL101D5	15	L4K1D-1-AGD	G0G230451-1D	20	8290/SOLID		10.47000	g
27JL101D5	16	L4K1G-1-AA	G0G230451-2	20	8290/SOLID		10.60000	g
27JL101D5	17	ST0727H	CS3 10DXN336				1.00000	
27JL101D5	18						1.00000	
27JL101D5	19						1.00000	
27JL101D5	20						1.00000	
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27JL101D5	22		MG, AM 07/27/10				1.00000	

log file reviewed  
7-27-10 AM

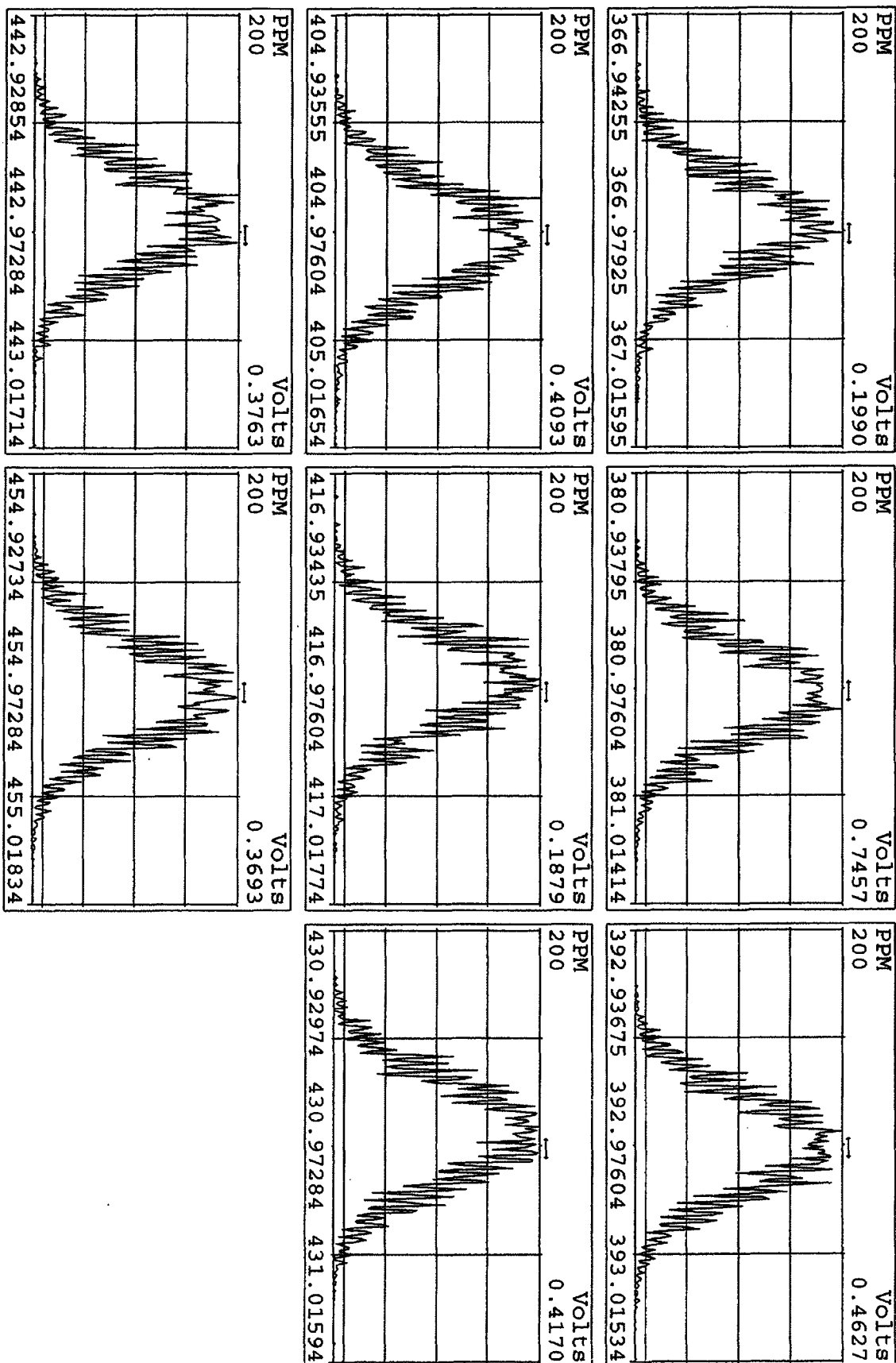
Peak Locate Examination: 27-JUL-2010: 07:49 File: 27JUL101D5  
Experiment: DIOXINRES Function: 1 Reference: PFK



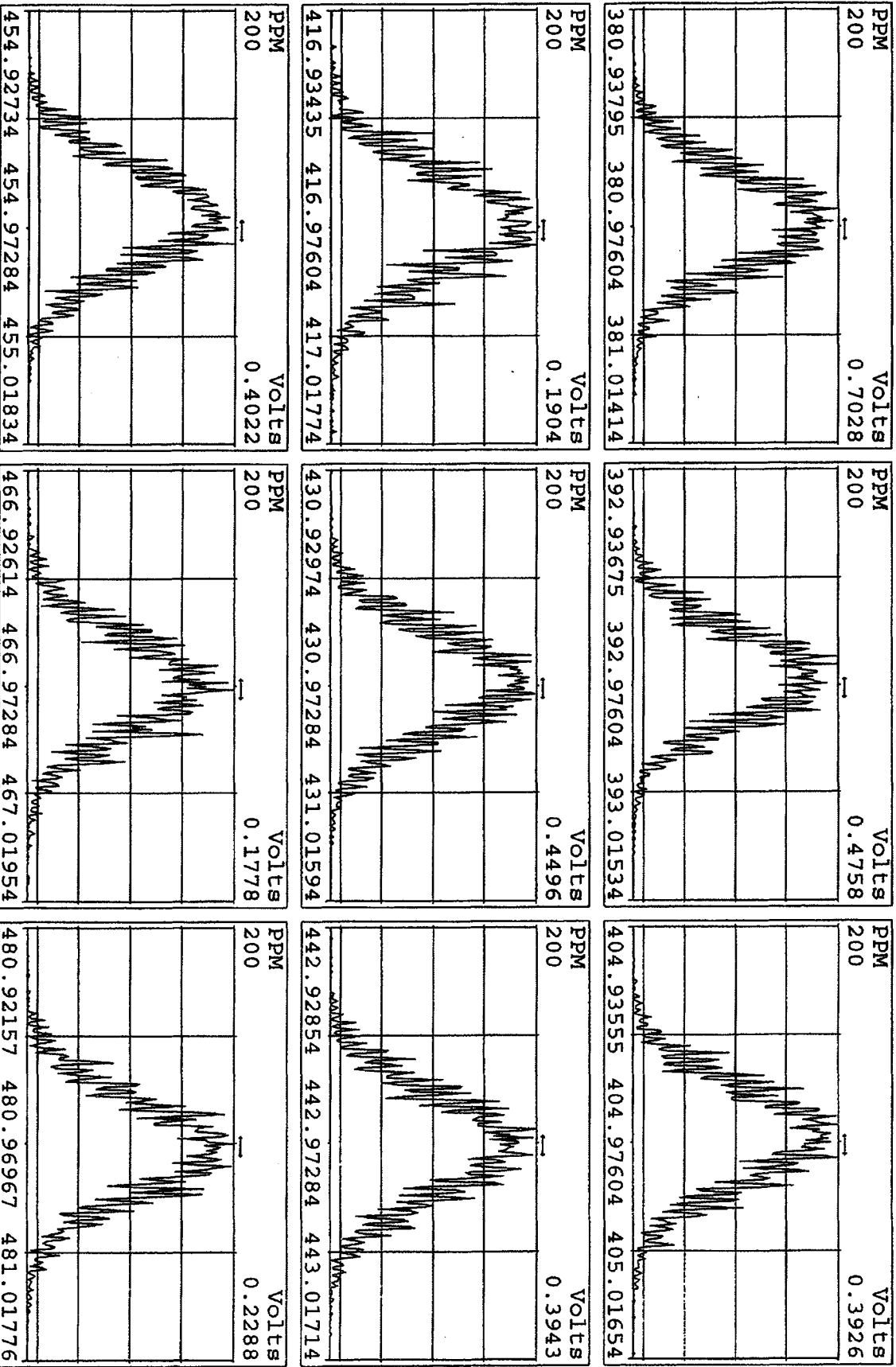
Peak Locate Examination: 27-JUL-2010: 07:50 File: 27JUL101D5  
 Experiment: DIOXINRES Function: 2 Reference: PFK



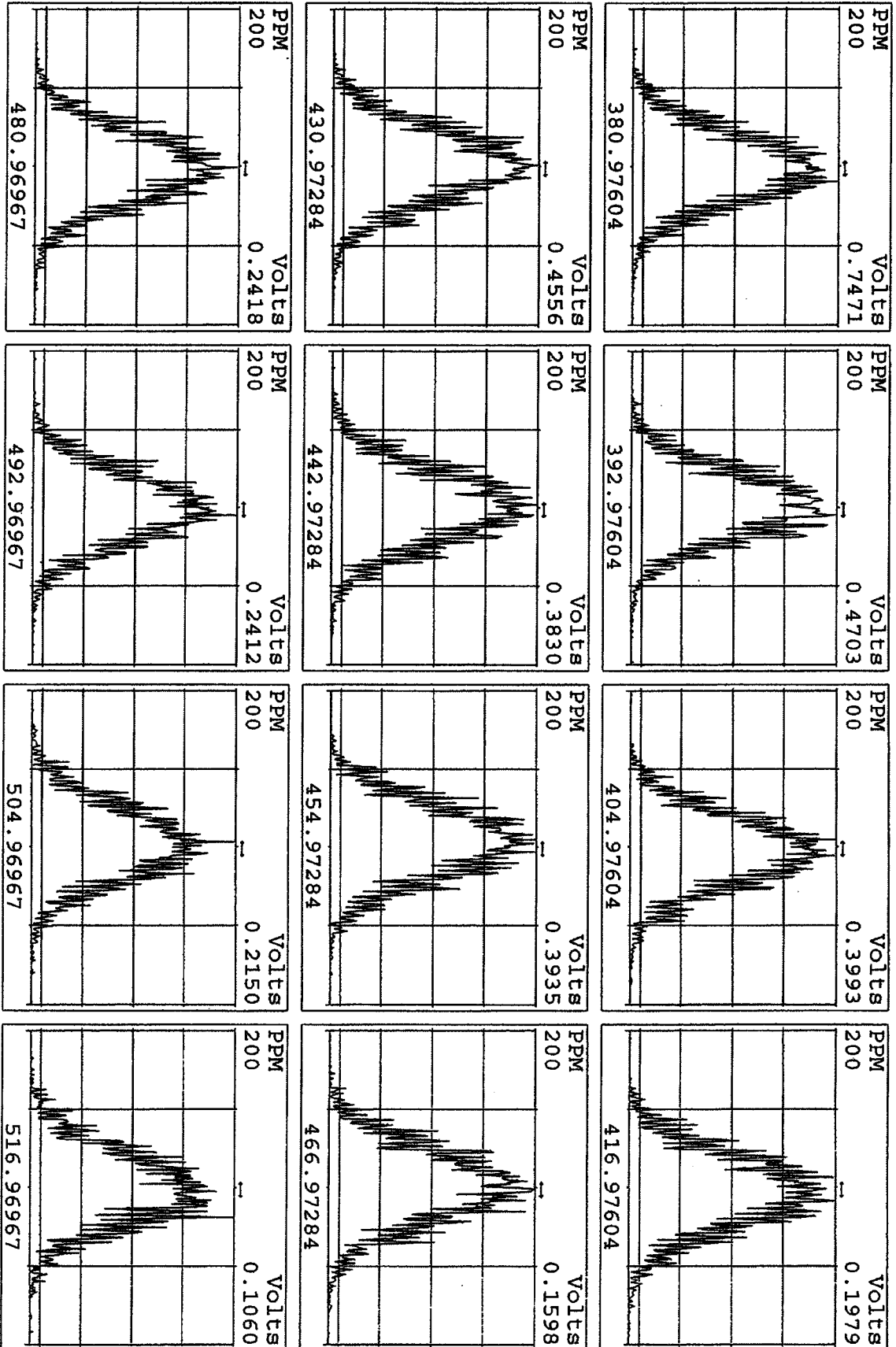
Peak Locate Examination: 27-JUL-2010:07:51 File: 27JUL101D5  
 Experiment: DIOXINRES Function: 3 Reference: PFK



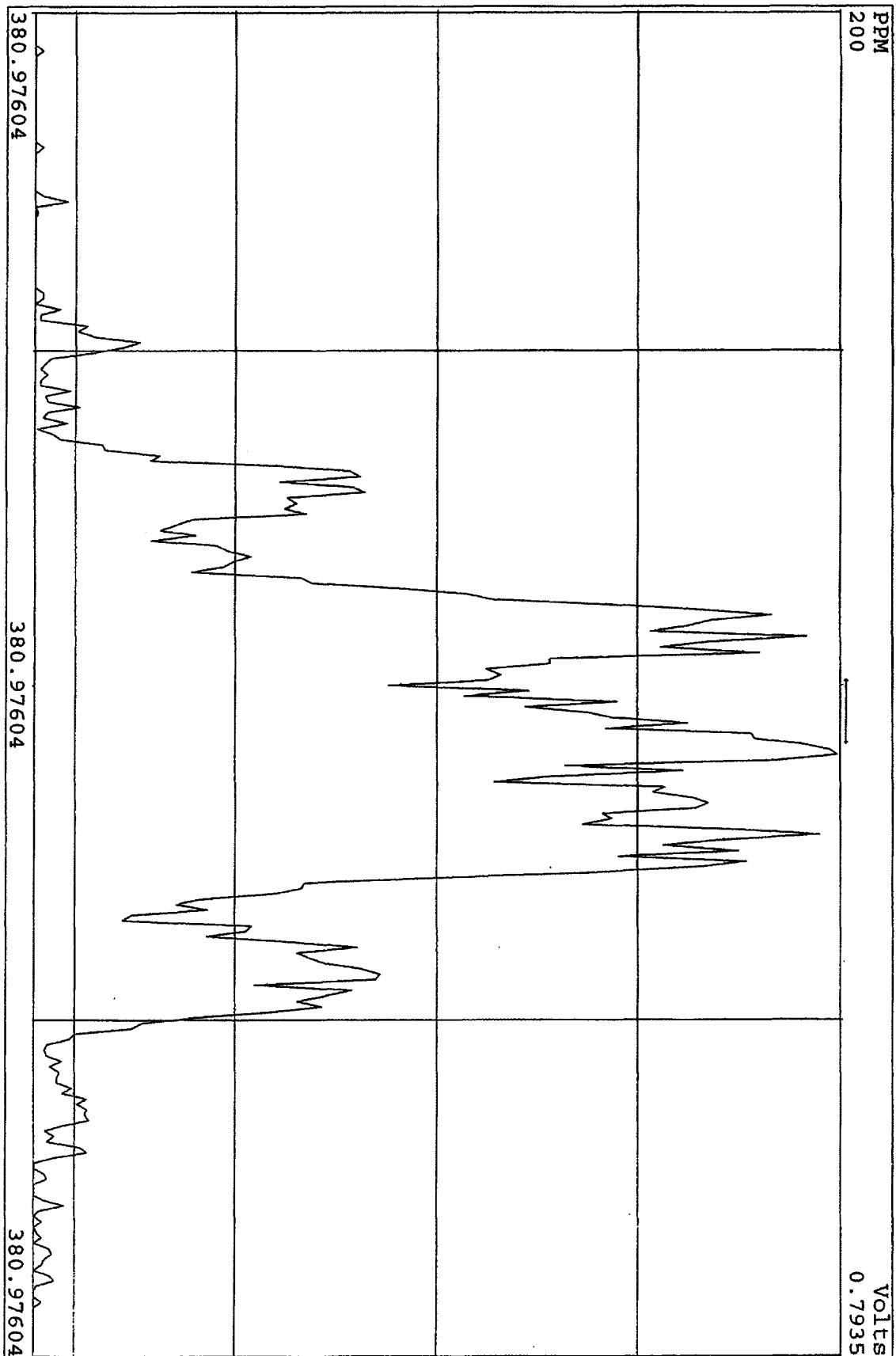
Peak Locate Examination: 27-JUL-2010:07:56 File: 27JUL101D5  
 Experiment: DIOXINRES Function: 4 Reference: PFK



Peak Locate Examination: 27-JUL-2010:07:56 File: 27JUL101D5  
Experiment: DIOXINRES Function: 5 Reference: PFK

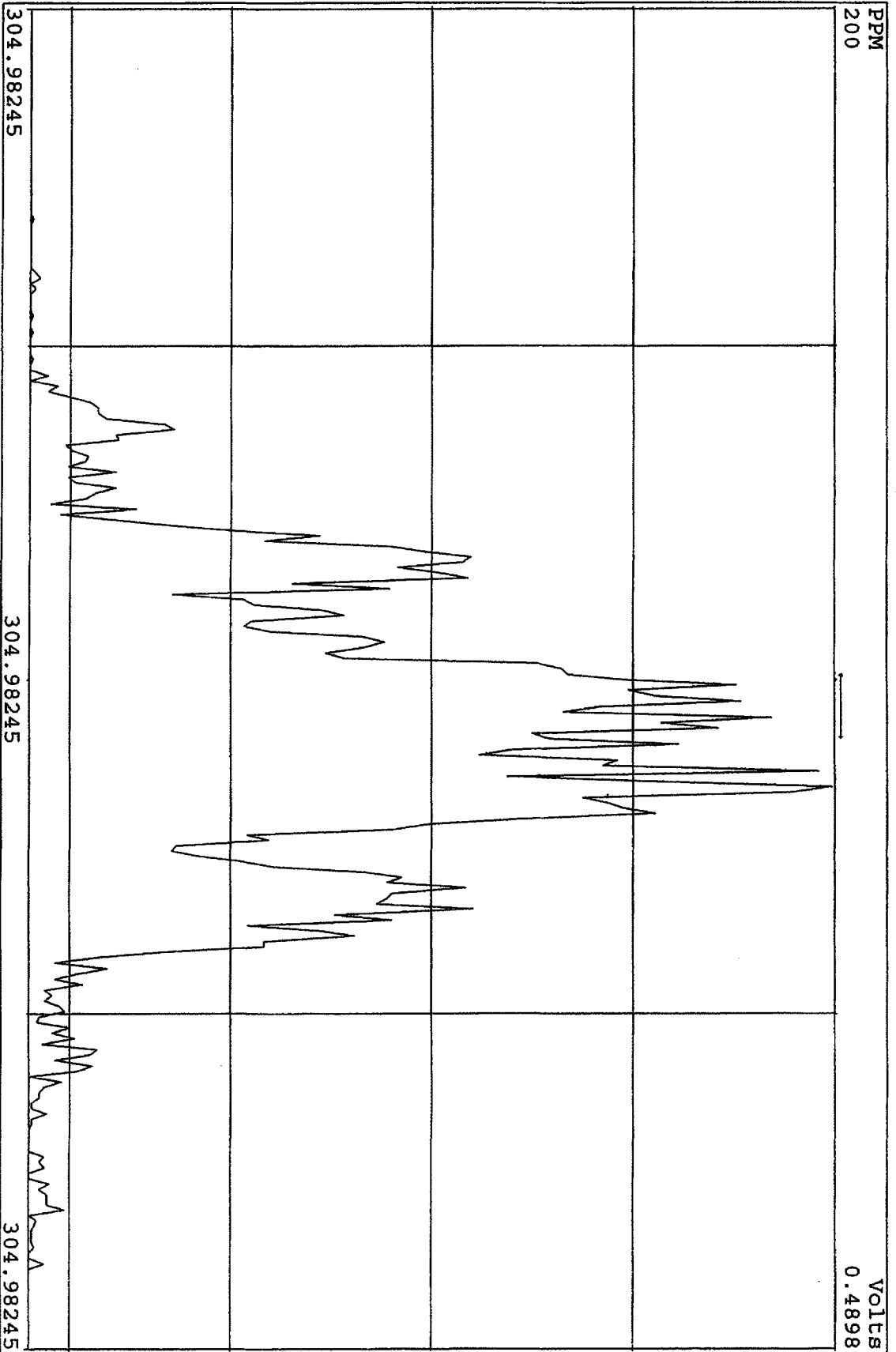


SIRLM Examination: 27-JUL-2010: 13:47 File: 27JUL101DS  
Experiment: DIOXINRES Function: 6

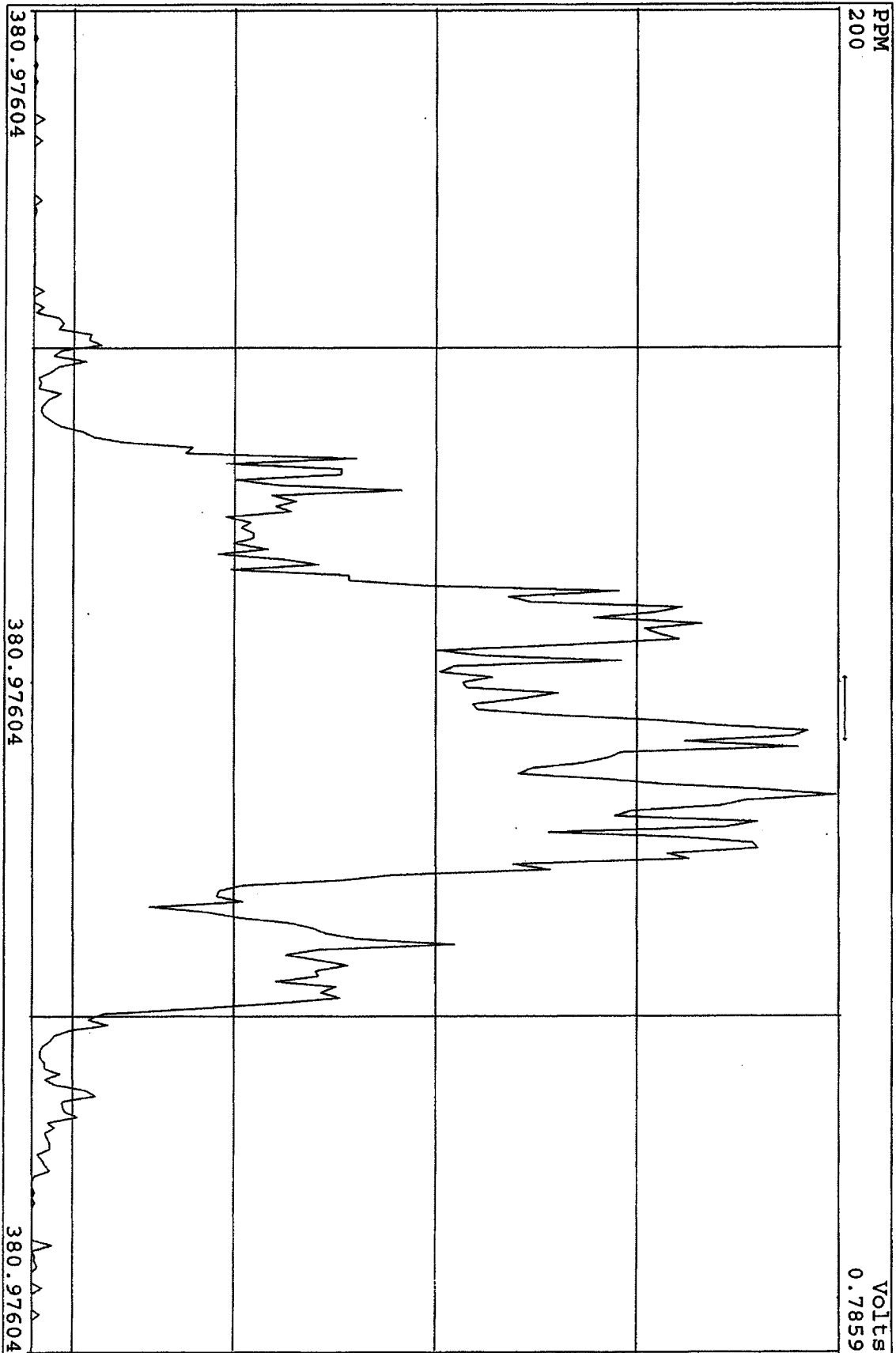




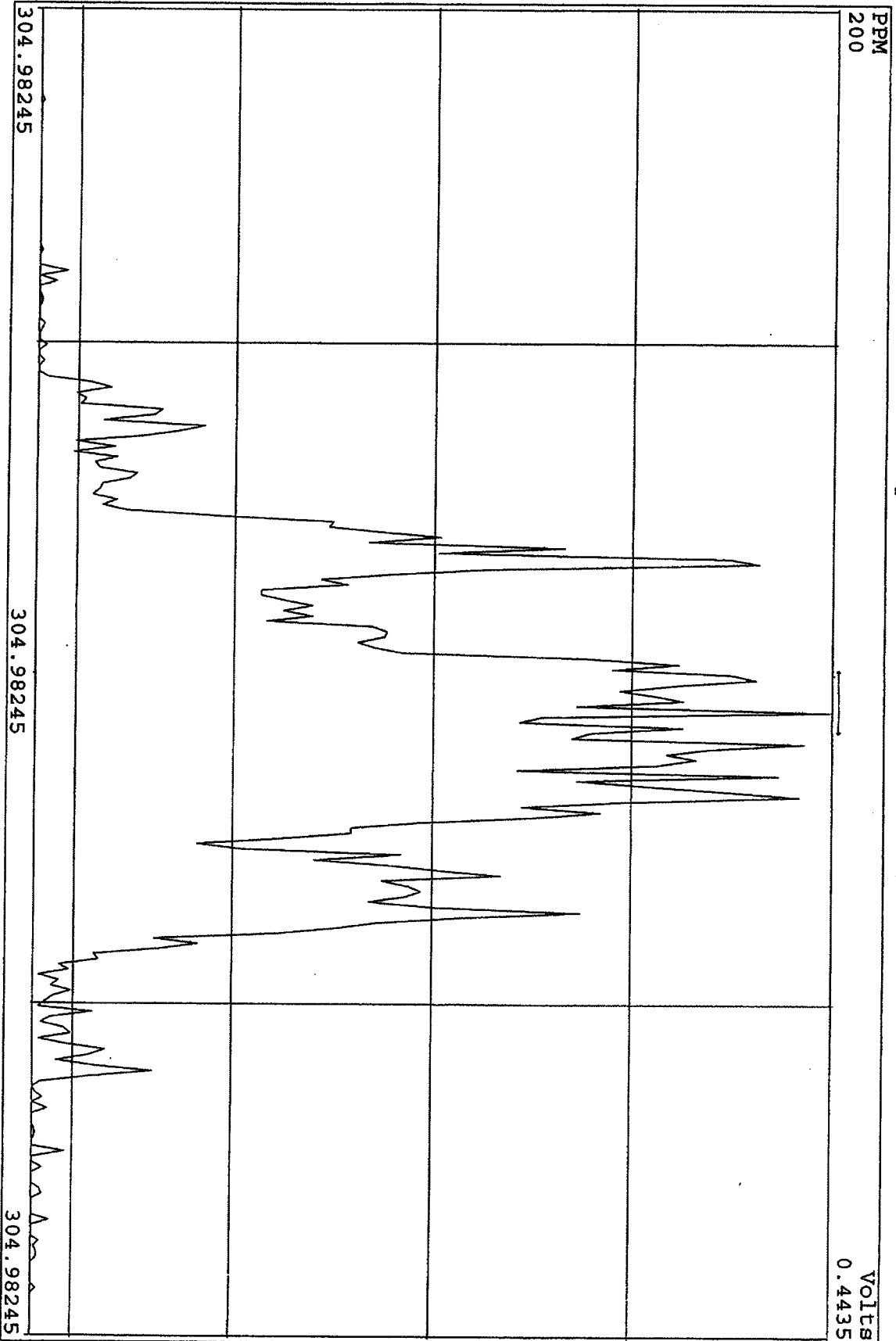
SIRLM Examination: 27-JUL-2010: 13:48 File: 27JUL101D5  
Experiment: DIOXINRES Function: 7



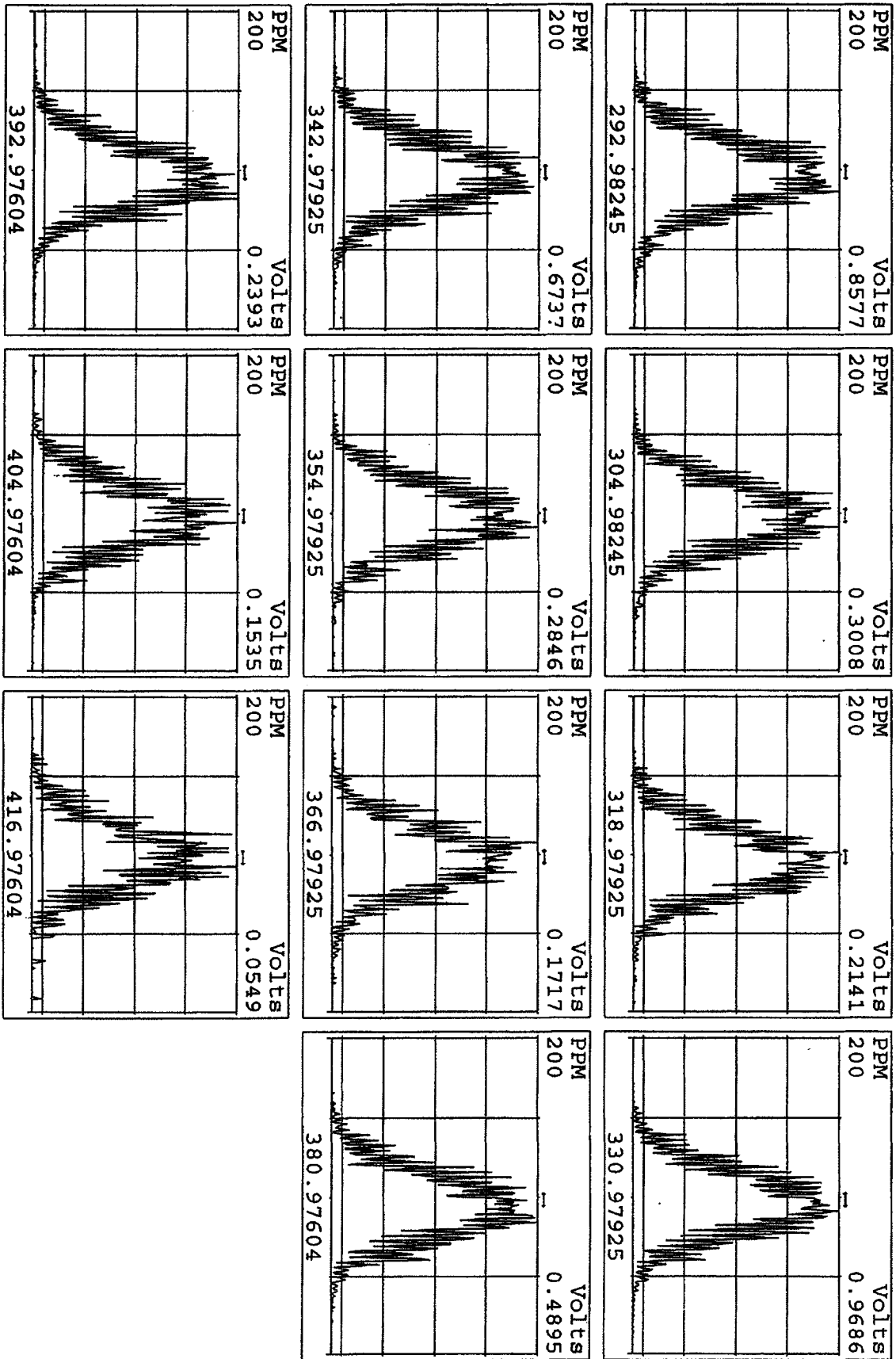
SIRLM Examination: 27-JUL-2010: 14:31 File: 27JLL101DS  
Experiment: DIOXINRES Function: 6



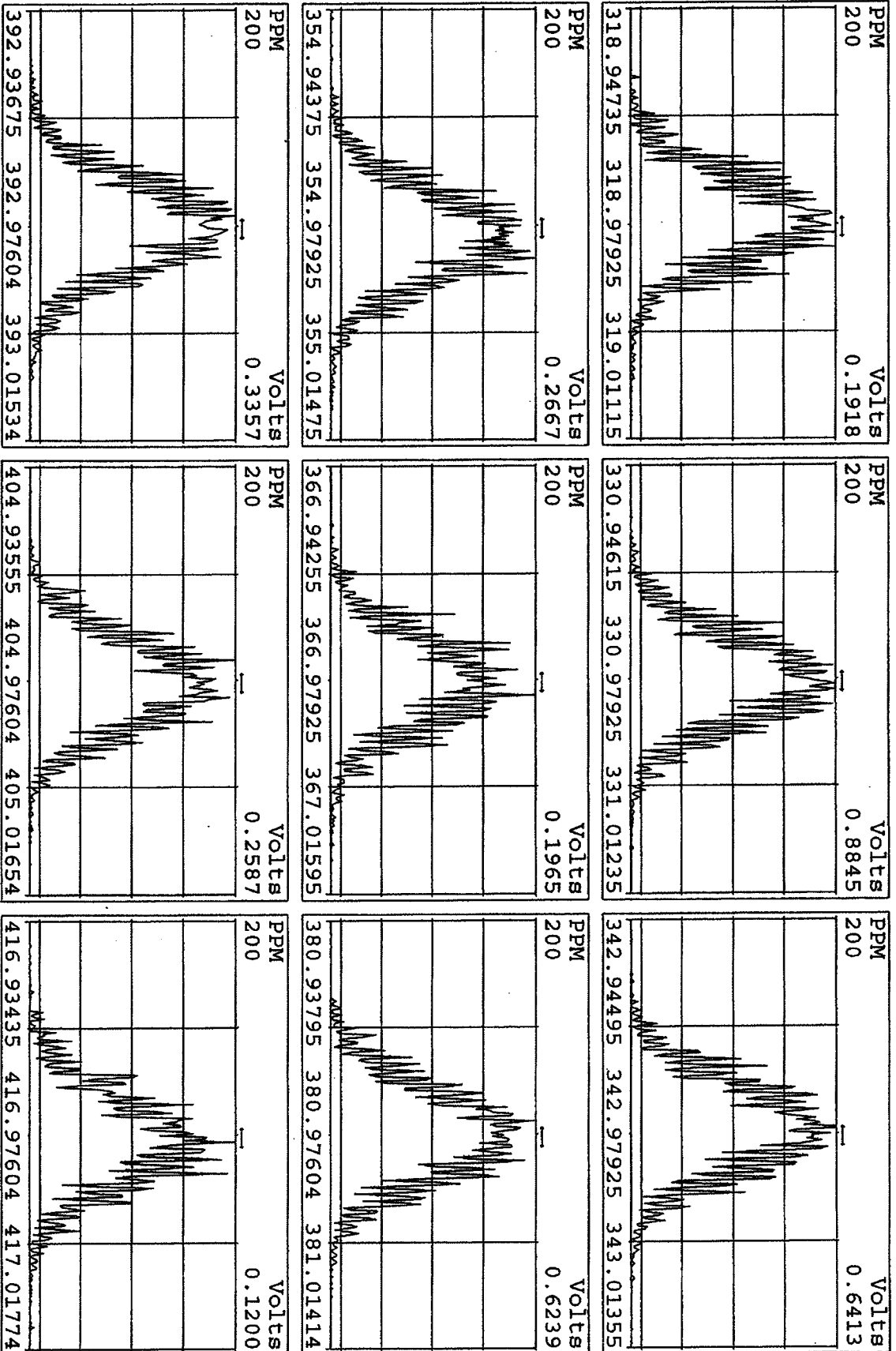
SIRLM Examination: 27-JUL-2010: 14:32 File: 27JUL101D5  
Experiment: DIOXINRES Function: 7



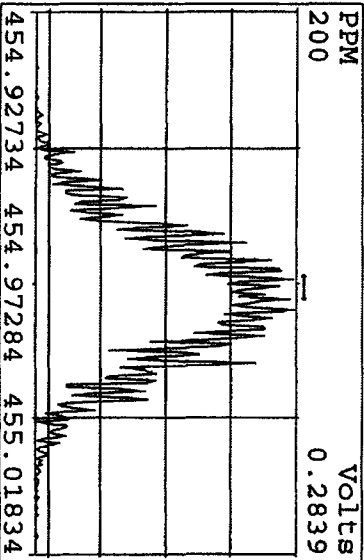
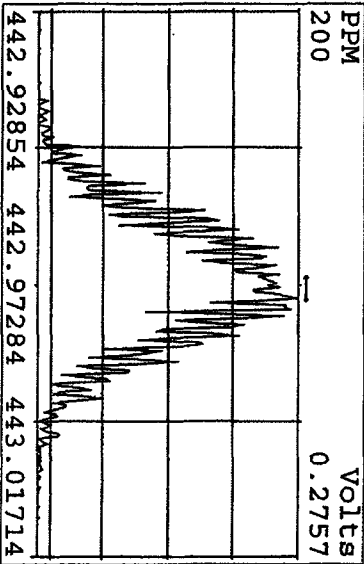
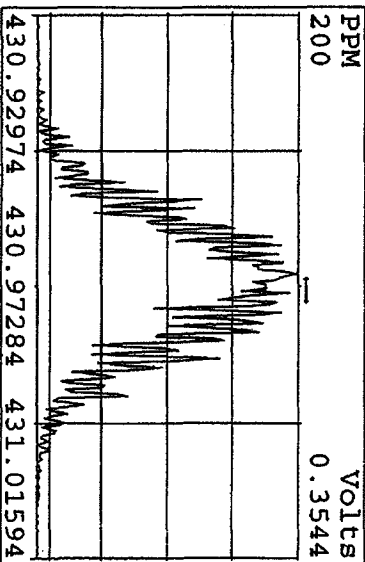
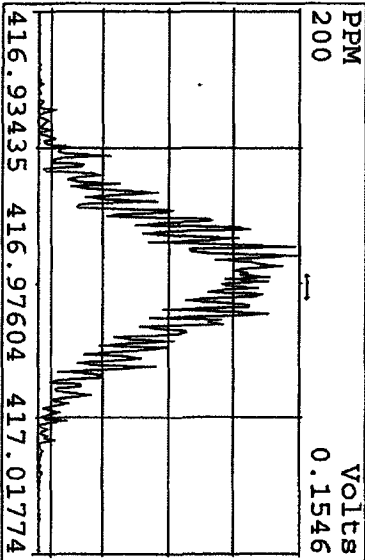
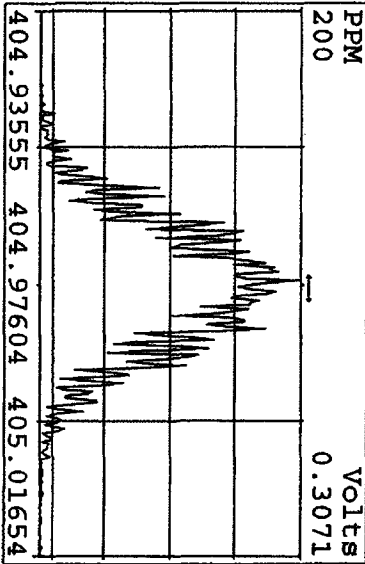
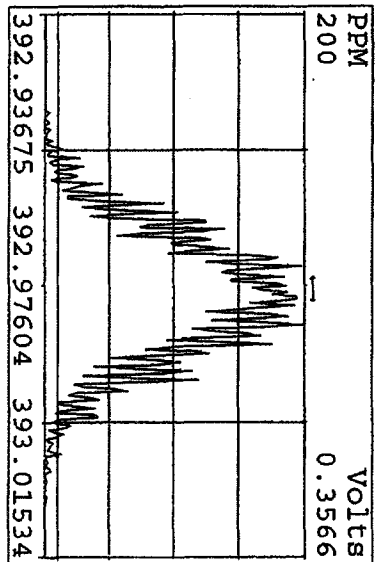
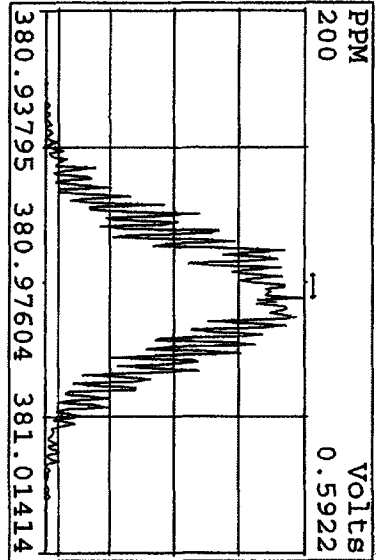
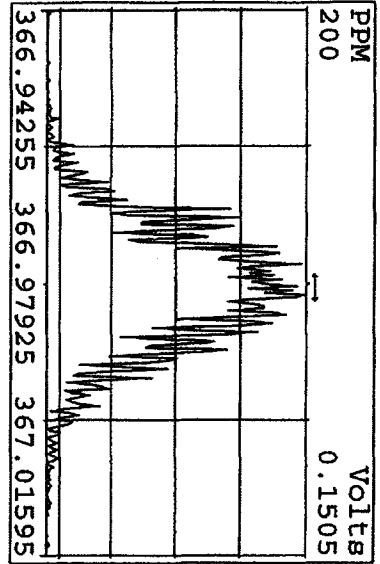
Peak Locate Examination: 27-JUL-2010:20:35 File: RESCHK27JUL101DS  
Experiment: DIOXINRES Function: 1 Reference: PFK



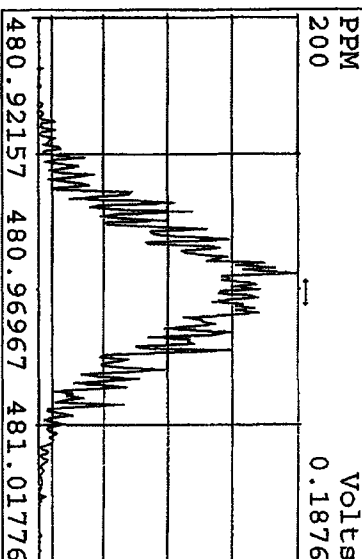
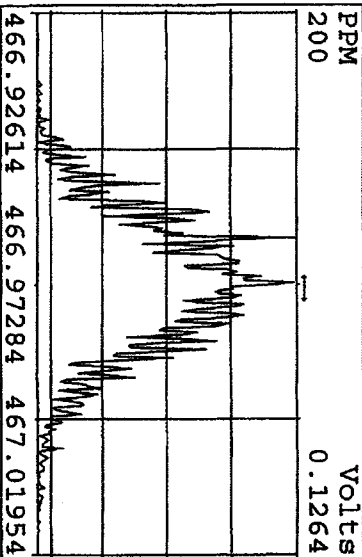
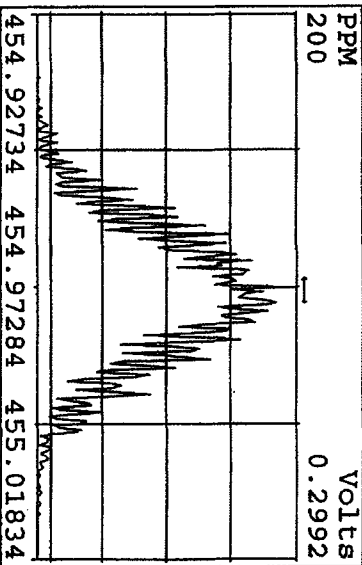
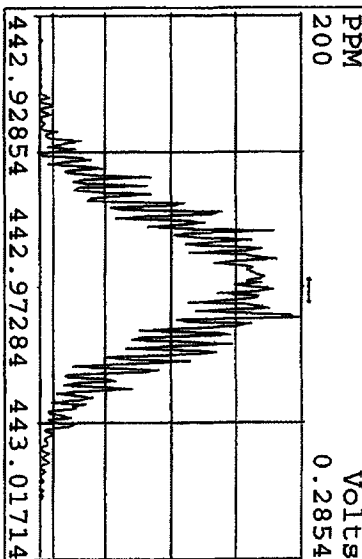
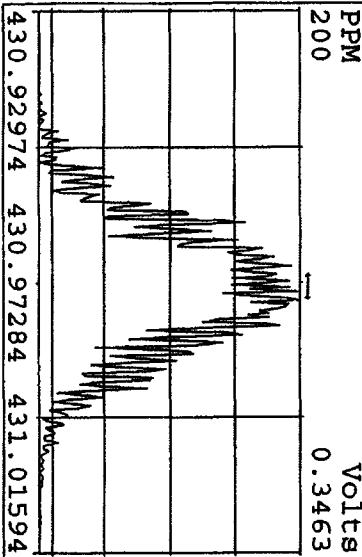
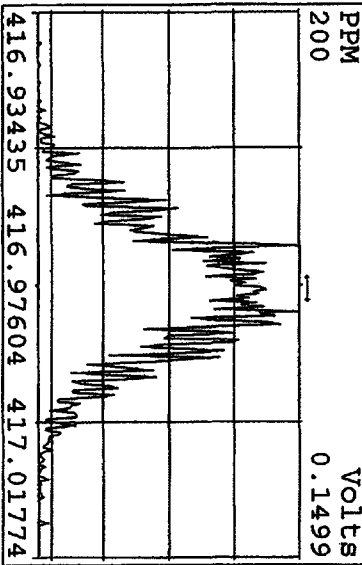
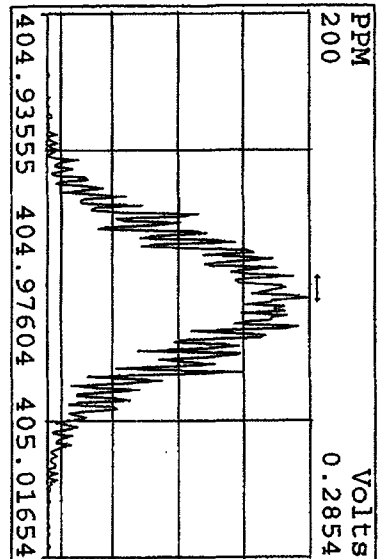
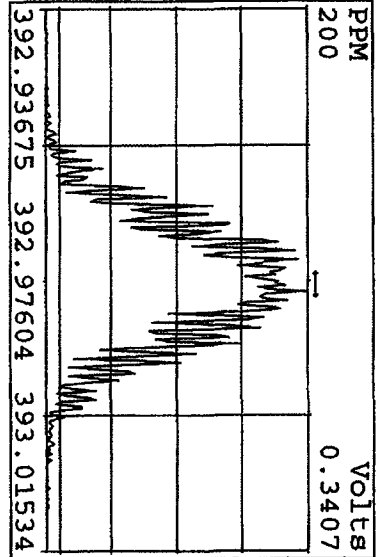
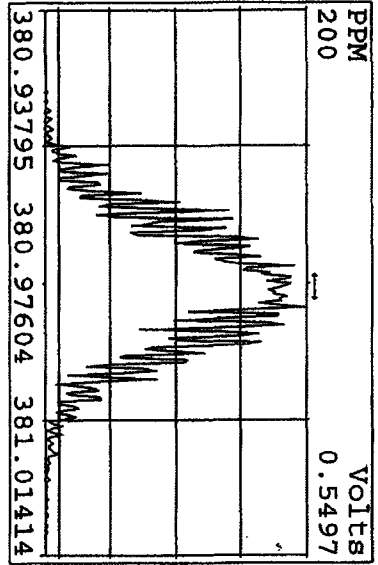
Peak Locate Examination: 27-JUL-2010:20:36 File: RESCHK27JUL101D5  
 Experiment: DIOXINRES Function: 2 Reference: PFK



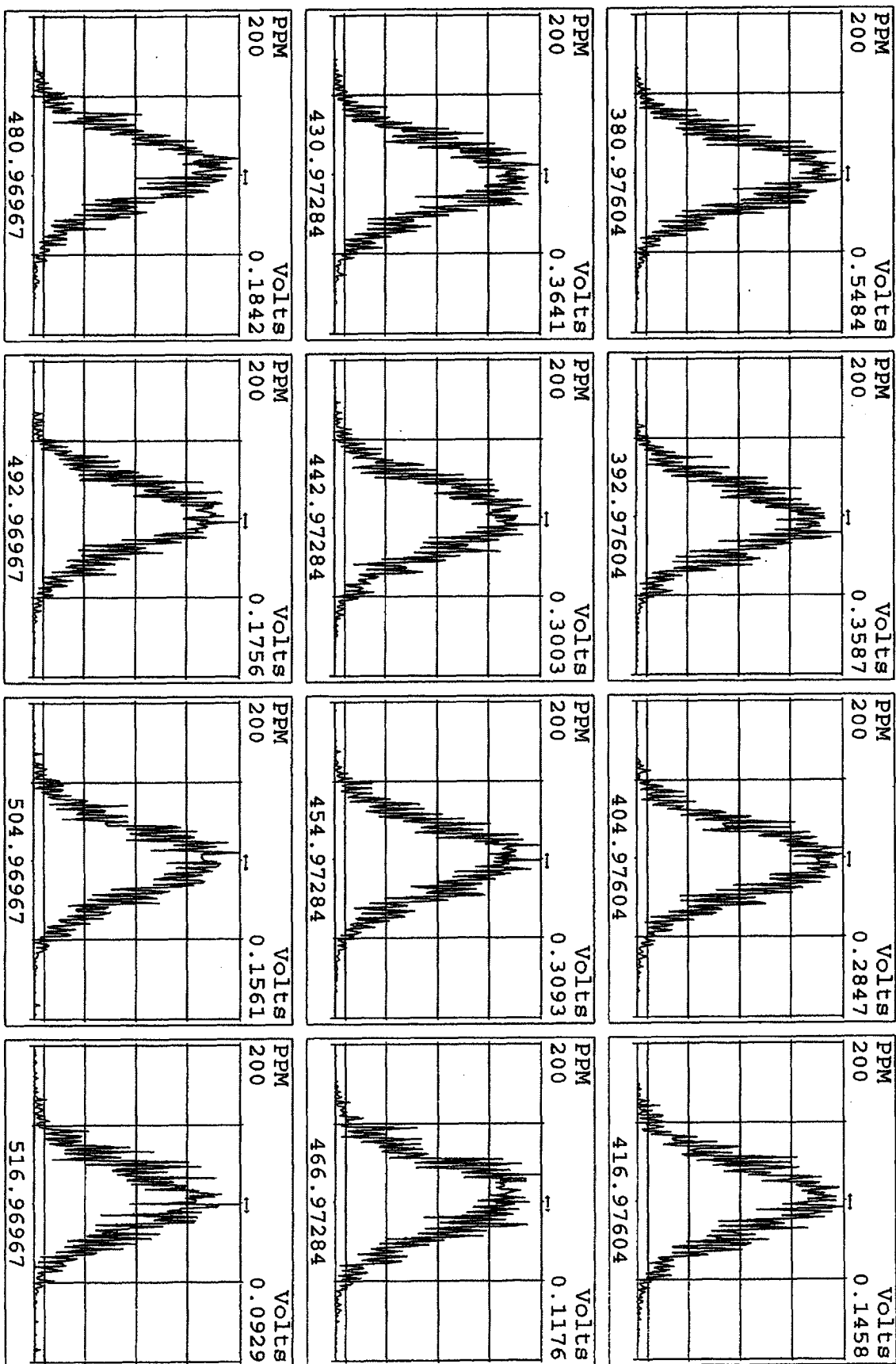
Peak Locate Examination: 27-JUL-2010: 20:41 File: RESCHK27JUL101D5  
 Experiment: DIOXINRES Function: 3 Reference: PFK



Peak Locate Examination: 27-JUL-2010: 20:43 File: RESCHK27JUL101DS  
 Experiment: DIOXINRES Function: 4 Reference: PFK

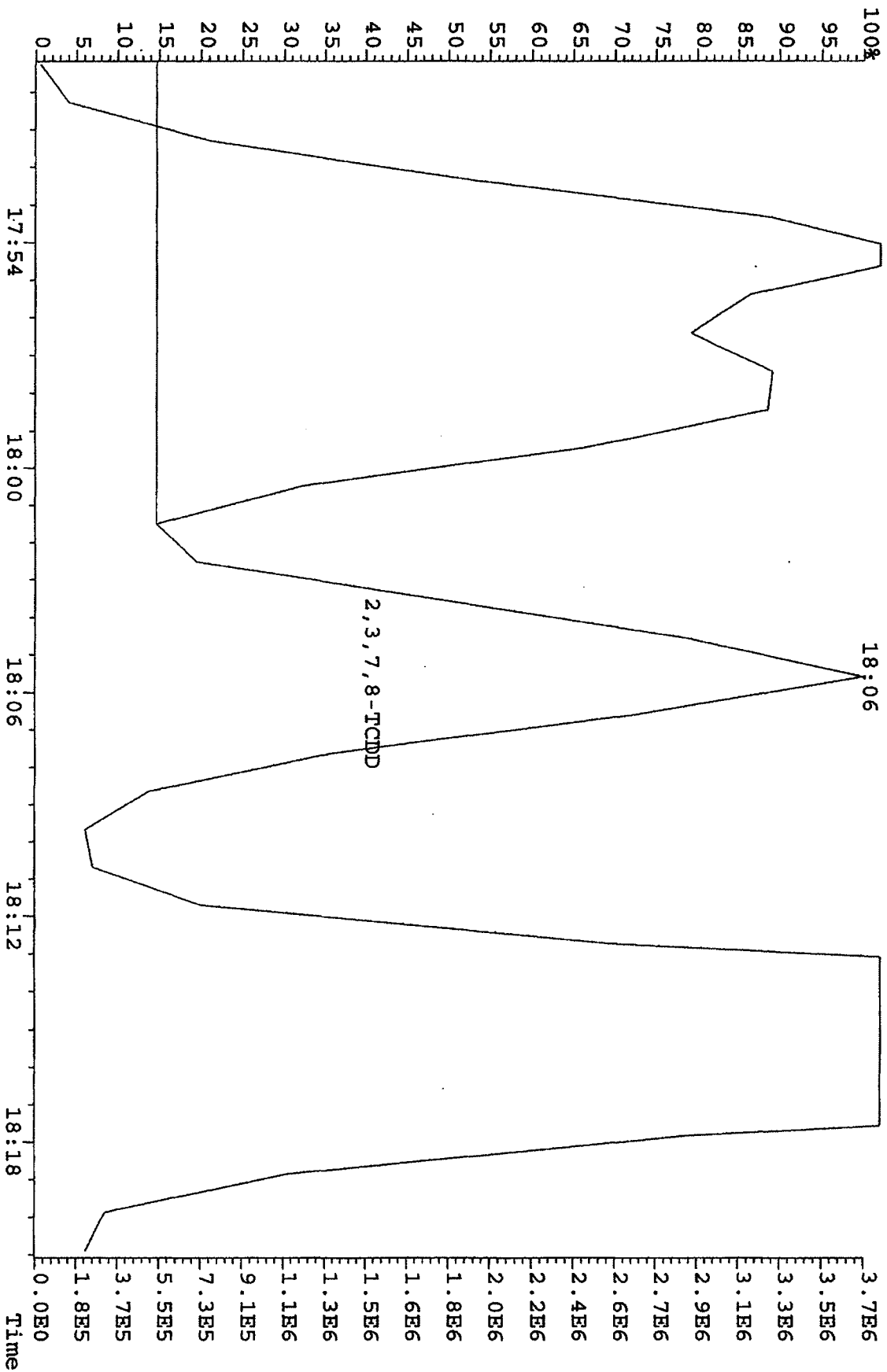


Peak Locate Examination: 27-JUL-2010:20:49 File: RESCHK27JLL101D5  
Experiment: DIOXINRES Function: 5 Reference: PFK





File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE  
321.8936 Exp: DIOXINRES



Quantitation Summary

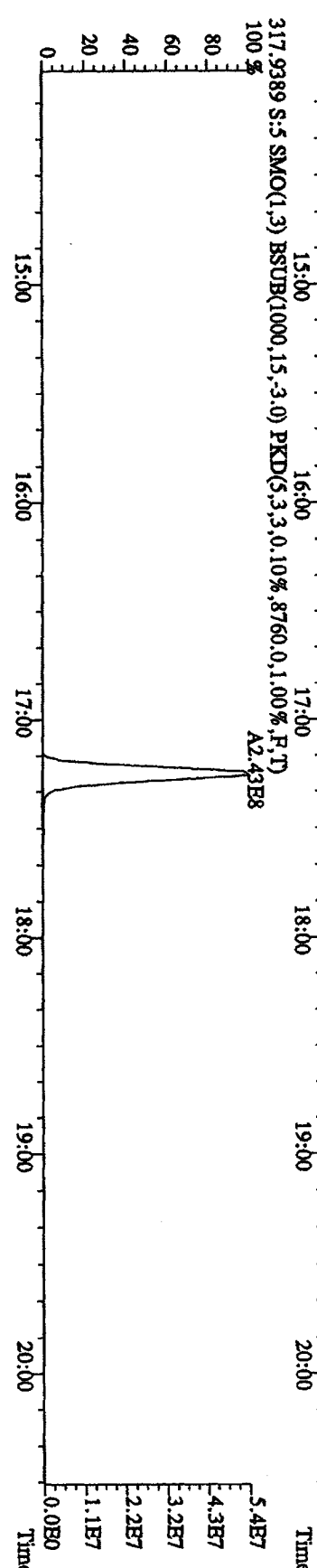
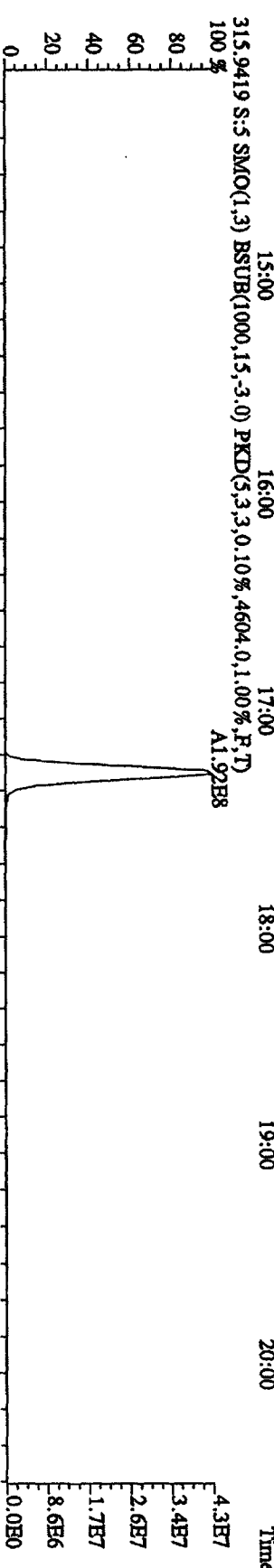
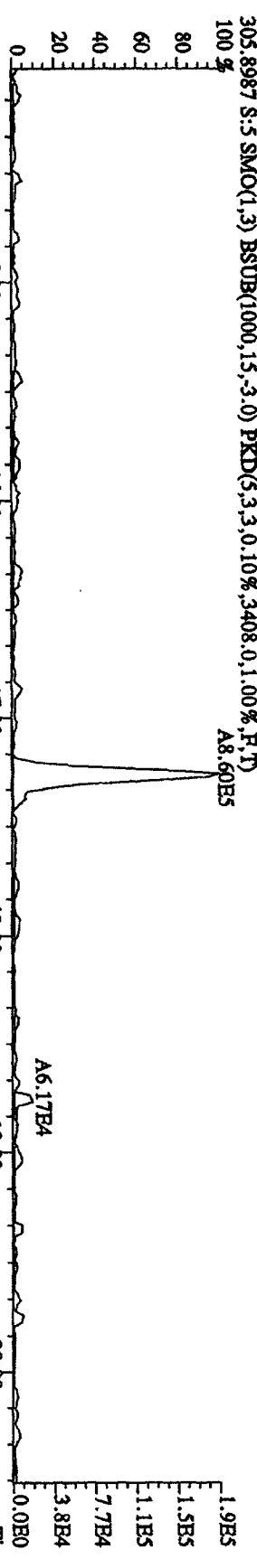
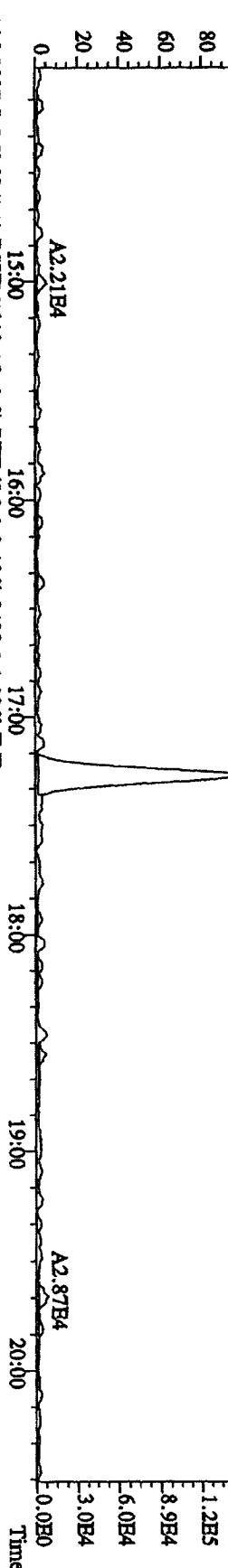
TestAmerica West Sacramento

Run text: ST0727F                      Sample text: ST0727F :2nd Source 10DXN340  
 Run #6 Filename: 27JL101D5 S: 8    I: 1                      Results: 27JL101D51613  
 Acquired: 27-JUL-10 13:06:44                      Processed: 27-JUL-10 13:49:15  
 Run: 27JL101D5                      Analyte: 1613                      Cal: 16130727101D5  
 Factor 1: 800.000                      Factor 2: 20.000                      Sample size: 1.000000

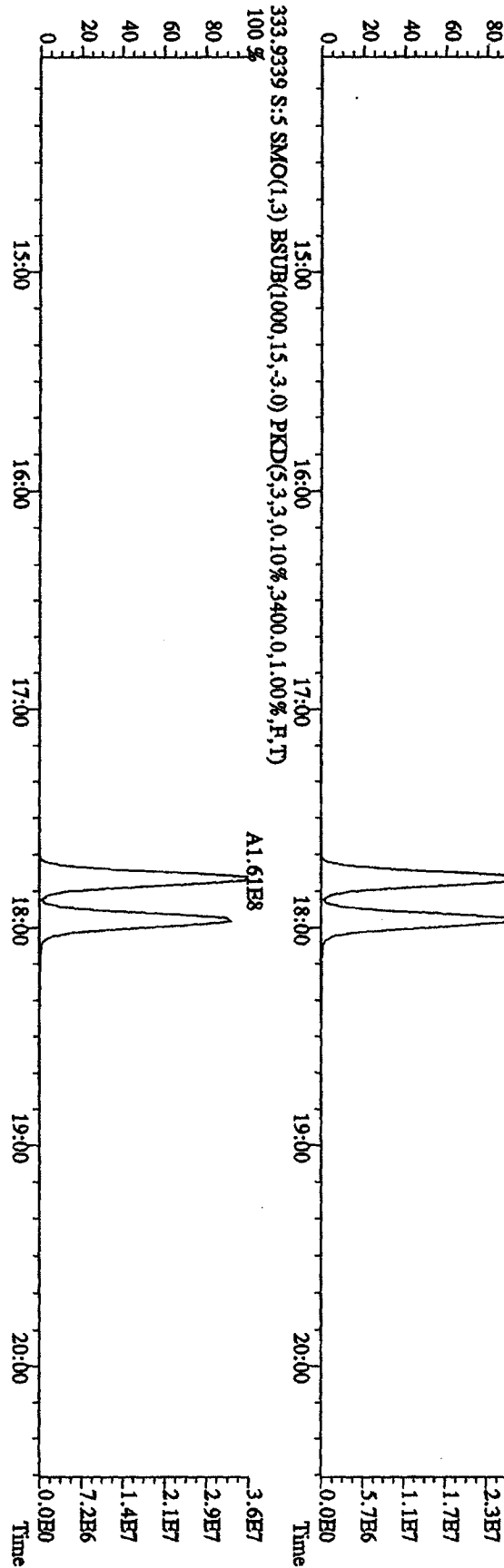
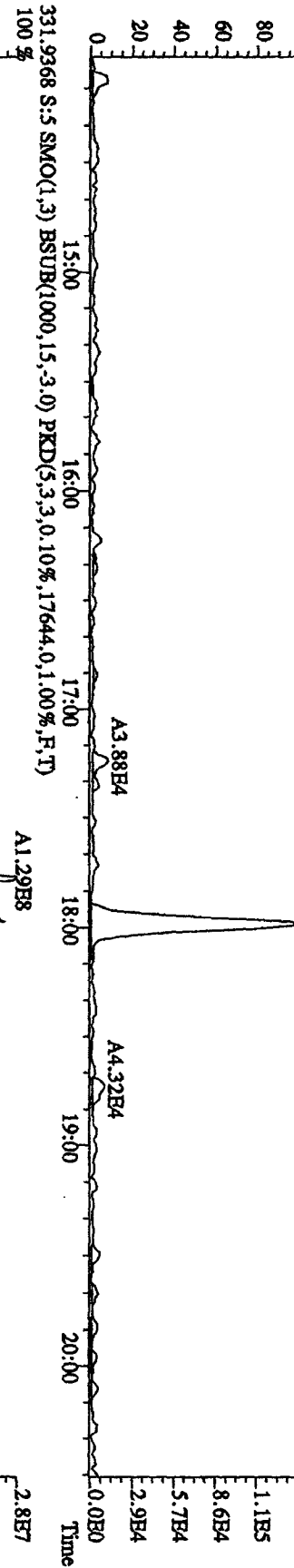
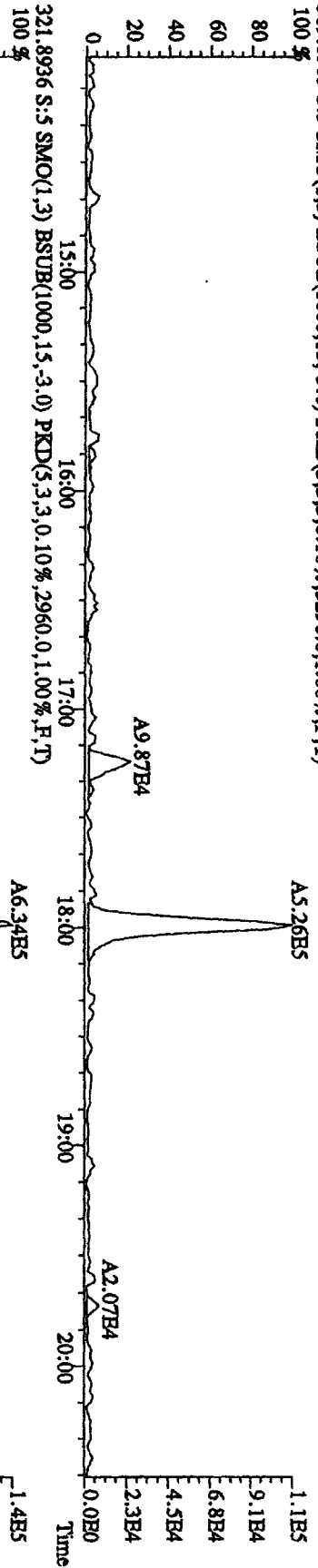
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	337280000	0.80 y	17:47	-	89.60	-	4.5	n
13C-2,3,7,8-TCDF	521696000	0.80 y	17:15	1.56	1980.90	0.80	99.0	n
2,3,7,8-TCDF	42944500	0.74 y	17:16	0.87	188.15	0.41	-	n
Total TCDF	43247626	1.03 n	16:34	0.87	189.48	0.41	-	n
13C-2,3,7,8-TCDD	330765000	0.80 y	17:58	0.94	2096.98	2.24	104.8	n
2,3,7,8-TCDD	29214900	0.78 y	17:59	0.96	184.53	0.63	-	n
Total TCDD	29341091	1.75 n	17:15	0.96	185.33	0.63	-	n
37Cl-2,3,7,8-TCDD	82730400	1.00 y	17:59	1.14	431.87	0.49	108.0	n
13C-1,2,3,7,8-PeCDF	412015000	1.64 y	22:19	1.06	2300.65	1.56	115.0	n
1,2,3,7,8-PeCDF	106465900	1.58 y	22:21	1.08	478.56	0.75	-	n
13C-2,3,4,7,8-PeCDF	378487000	1.63 y	23:39	1.01	2228.11	1.65	111.4	n
2,3,4,7,8-PeCDF	94125200	1.60 y	23:40	1.03	485.10	0.91	-	n
Total F2 PeCDF	203691851	2.40 n	20:59	1.05	978.56	0.83	-	n
Total F1 PeCDF	222392	0.91 n	15:23	1.05	1.07	0.67	-	n
13C-1,2,3,7,8-PeCDD	238860500	1.58 y	24:22	0.65	2191.86	1.08	109.6	n
1,2,3,7,8-PeCDD	50569700	1.67 y	24:23	0.92	457.86	1.27	-	n
Total PeCDD	50744435	0.81 n	22:20	0.92	459.44	1.27	-	n
13C-1,2,3,7,8,9-HxCDD	261457000	1.28 y	32:14	-	91.97	-	-	n
13C-1,2,3,4,7,8-HxCDF	286693900	0.51 y	30:30	0.99	2224.04	0.66	111.2	n
1,2,3,4,7,8-HxCDF	81067900	1.25 y	30:31	1.15	490.29	0.60	-	n
13C-1,2,3,6,7,8-HxCDF	338655000	0.53 y	30:42	1.14	2262.64	0.57	113.1	n
1,2,3,6,7,8-HxCDF	87905400	1.27 y	30:43	1.07	483.58	0.52	-	n
13C-2,3,4,6,7,8-HxCDF	322498000	0.52 y	31:33	1.09	2265.65	0.60	113.3	n
2,3,4,6,7,8-HxCDF	84487700	1.29 y	31:34	1.10	474.45	0.43	-	n
13C-1,2,3,7,8,9-HxCDF	311789000	0.53 y	32:26	1.08	2211.14	0.60	110.6	n
1,2,3,7,8,9-HxCDF	81683000	1.27 y	32:27	1.09	482.72	0.41	-	n
Total HxCDF	335144000	1.25 y	30:31	1.10	1931.03	0.49	-	n
13C-1,2,3,4,7,8-HxCDD	220065800	1.29 y	31:46	0.80	2100.44	0.85	105.0	n
1,2,3,4,7,8-HxCDD	53268200	1.28 y	31:47	0.98	491.57	1.17	-	n
13C-1,2,3,6,7,8-HxCDD	222211700	1.29 y	31:53	0.77	2213.55	0.89	110.7	n
1,2,3,6,7,8-HxCDD	54964000	1.31 y	31:54	1.11	447.02	1.06	-	n
1,2,3,7,8,9-HxCDD	63579100	1.27 y	32:15	1.21	473.39	0.96	-	n
Total HxCDD	171811300	1.28 y	31:47	1.10	1411.98	1.06	-	n
13C-1,2,3,4,6,7,8-HpCDF	285878900	0.44 y	34:02	0.98	2229.35	4.39	111.5	n
1,2,3,4,6,7,8-HpCDF	95529400	1.06 y	34:03	1.35	495.18	1.03	-	n
13C-1,2,3,4,7,8,9-HpCDF	249318800	0.45 y	35:15	0.88	2168.86	4.90	108.4	n
1,2,3,4,7,8,9-HpCDF	79843500	1.03 y	35:16	1.32	484.85	1.30	-	n
Total HpCDF	177173445	1.06 y	34:03	1.34	990.10	1.15	-	n

13C-1,2,3,4,6,7,8-HpCDD	239256000	1.11	y	34:56	0.81	2271.52	2.14	113.6	n
1,2,3,4,6,7,8-HpCDD	57115100	1.06	y	34:57	1.03	465.19	0.82	-	n
Total HpCDD	58367666	2.73	n	34:02	1.03	475.39	0.82	-	n
13C-OCDD	346321000	0.92	y	37:35	0.62	4306.66	5.23	107.7	n
OCDF	119805200	0.87	y	37:42	1.44	957.64	1.36	-	n
OCDD	90839200	0.91	y	37:35	1.09	962.24	1.43	-	n

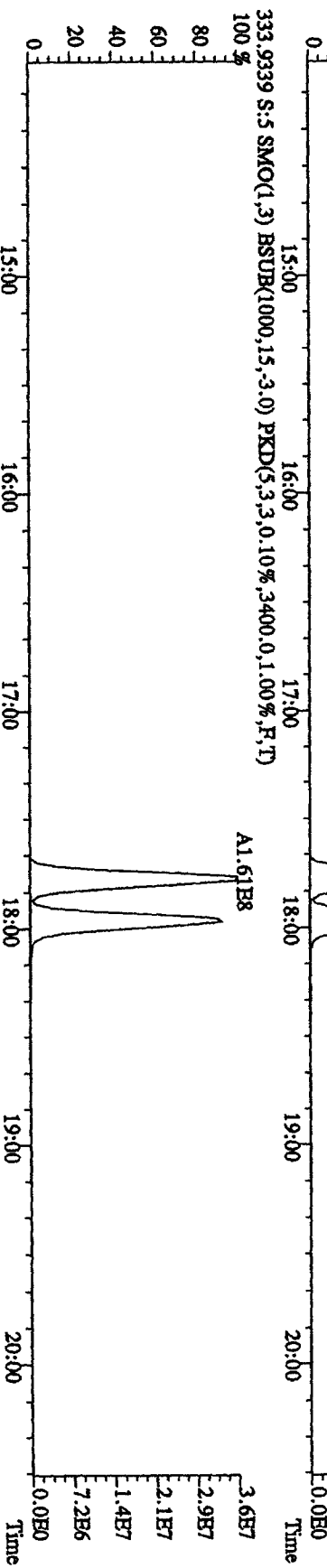
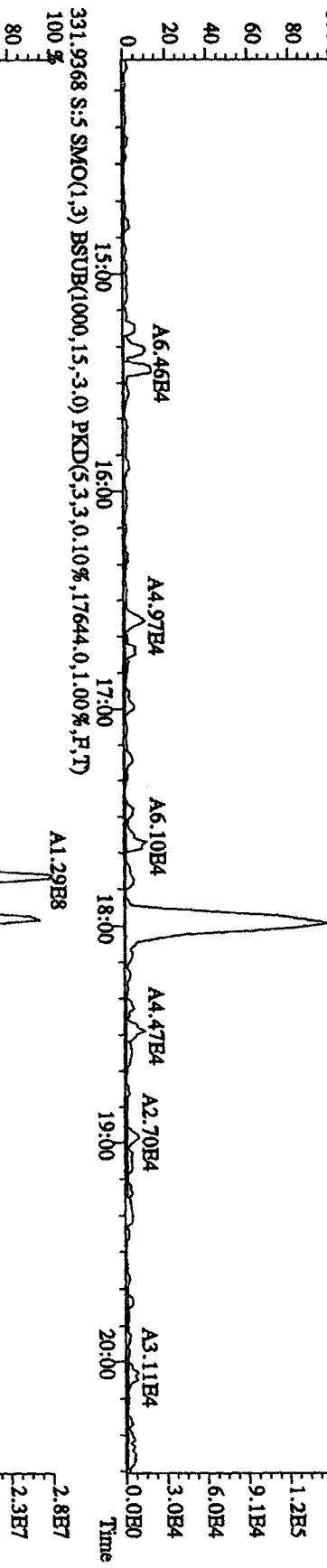
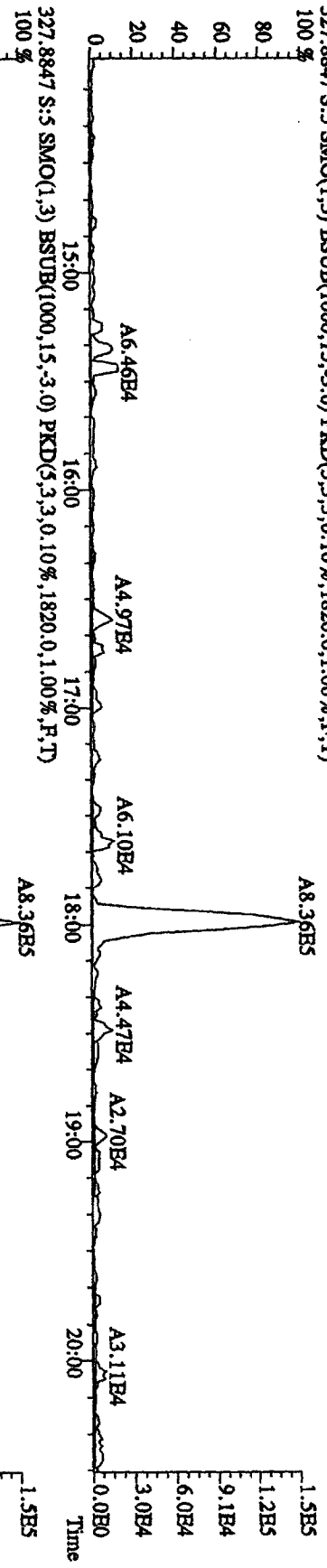
File: 27JL101D5 #1-382 Acq: 27-JUL-2010 10:54:32 GC HI + Voltage SIR 70SE  
 Sample#5 Text: ST0727C :CSI 10DXN342 Exp: DIOXINRES  
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2576,0,1,00%,F,T)  
 100%



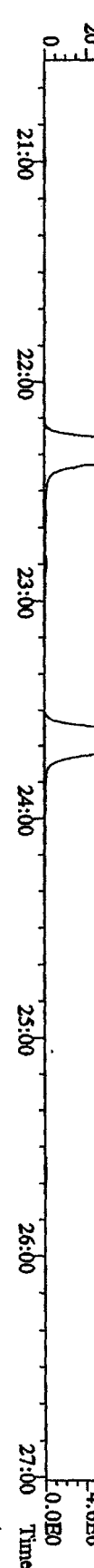
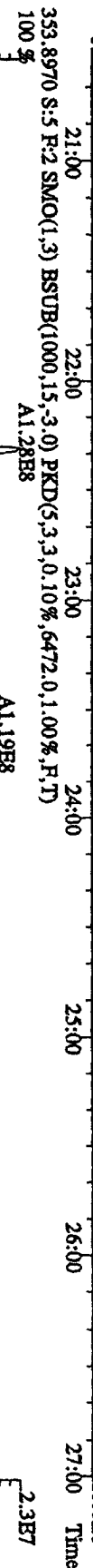
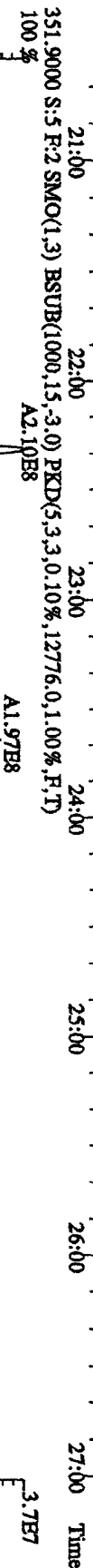
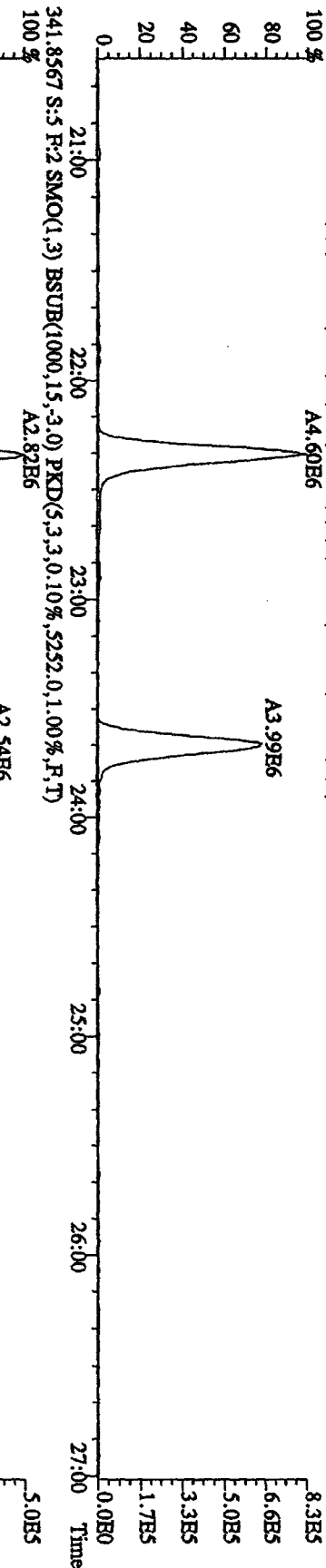
File: 27JL101D5 #1-382 Acq: 27-JUL-2010 10:54:32 GC EI+ Voltage: 800V  
 Sample# 5 Text: ST0727C :CS1 10DXN342 Exp: DIOXINES  
 319.8965 S: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3296,0,1.00%,F,T)



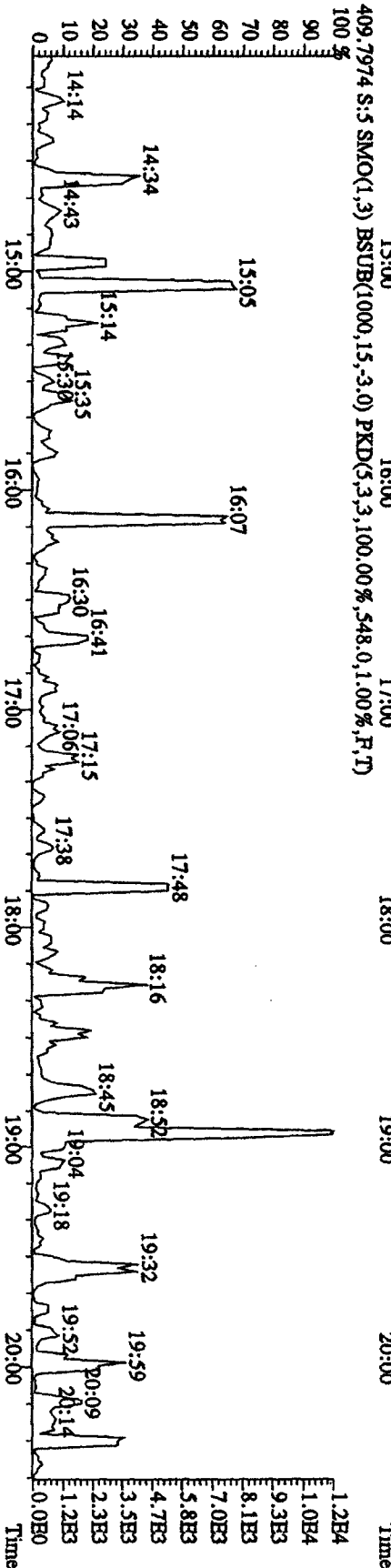
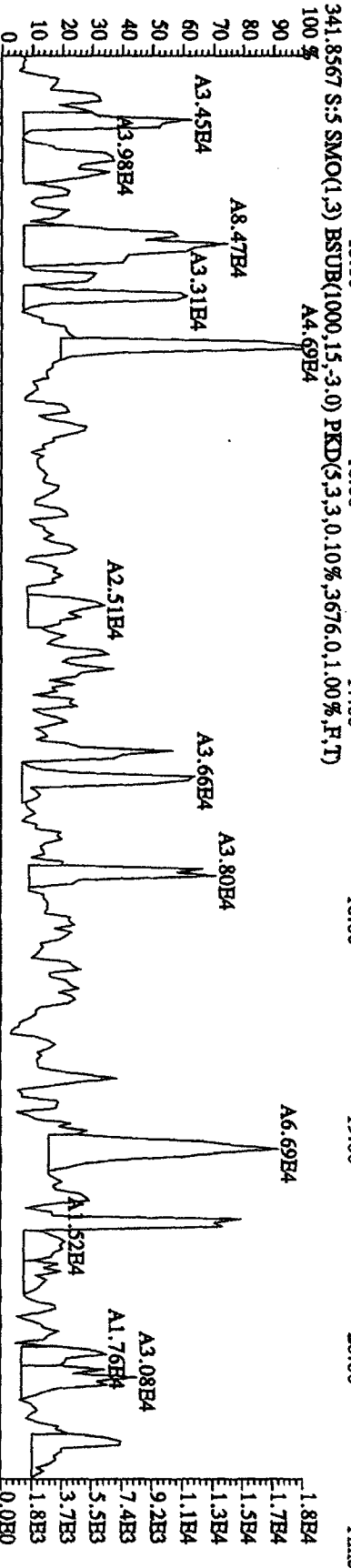
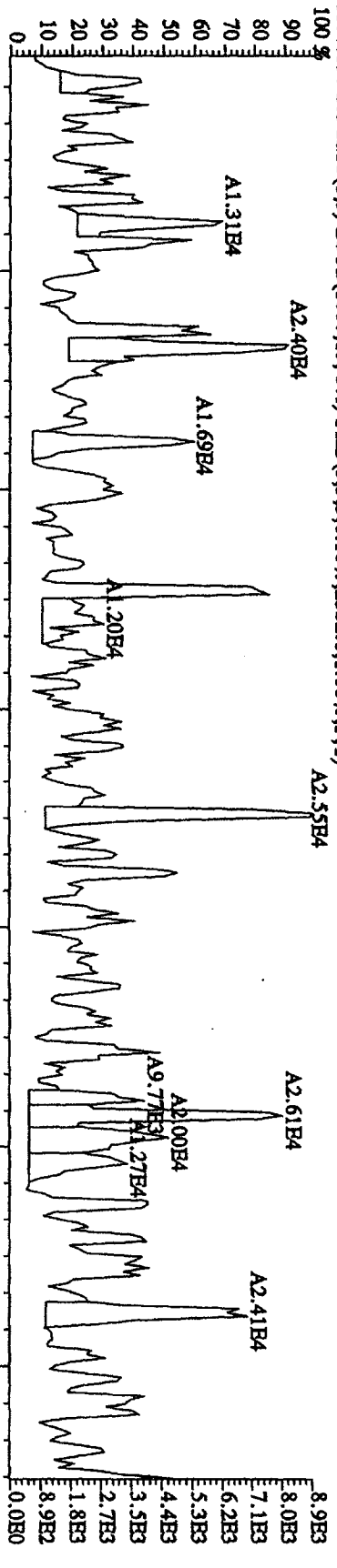
File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SB  
 Sample#5 Text: ST0727C :CS1 10DXN342 Exp: DIOXINRHS  
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1820,0,1.00%,F,T)



File: 27JL101D5 #1-404 Acq: 27-JUL-2010 10:54:32 GC: EI + Voltage SIR 70SE  
 Sample#5 Text: ST0727C :CSI 10DXN342 Exp: DIOXINRES  
 339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2972,0,1,00%,F,T)  
 100%

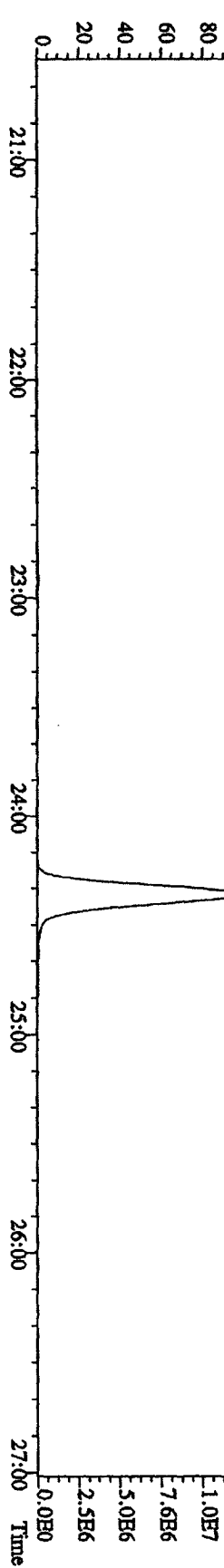
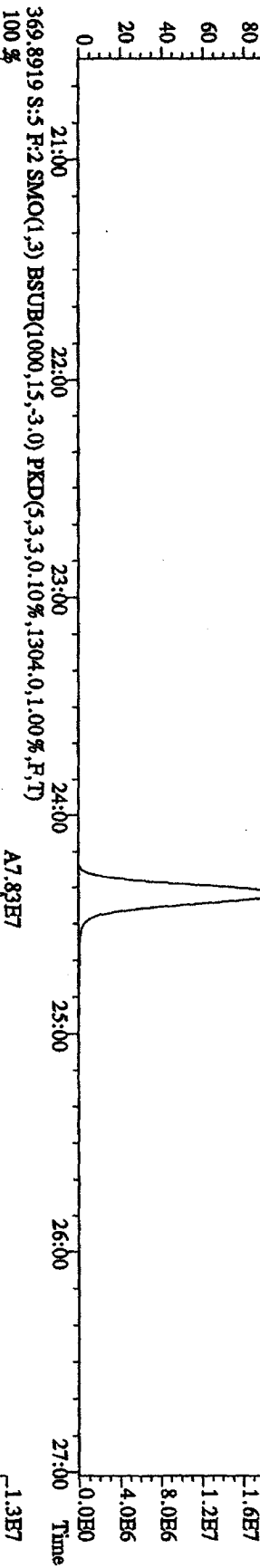
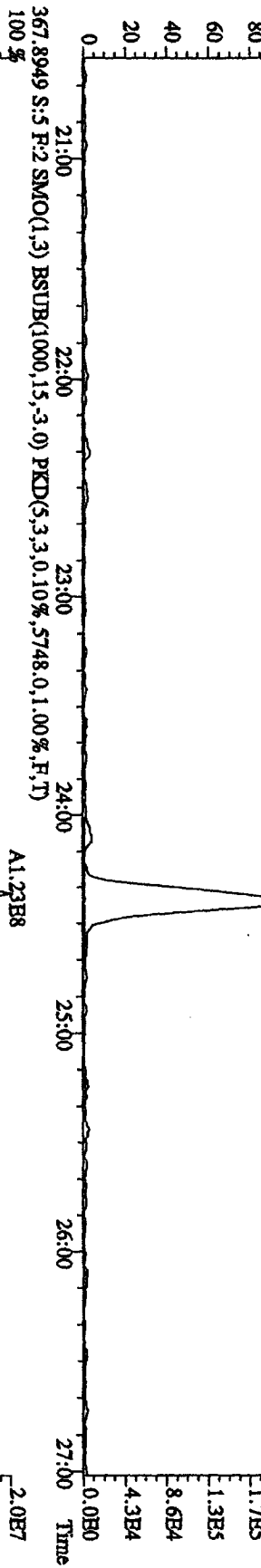
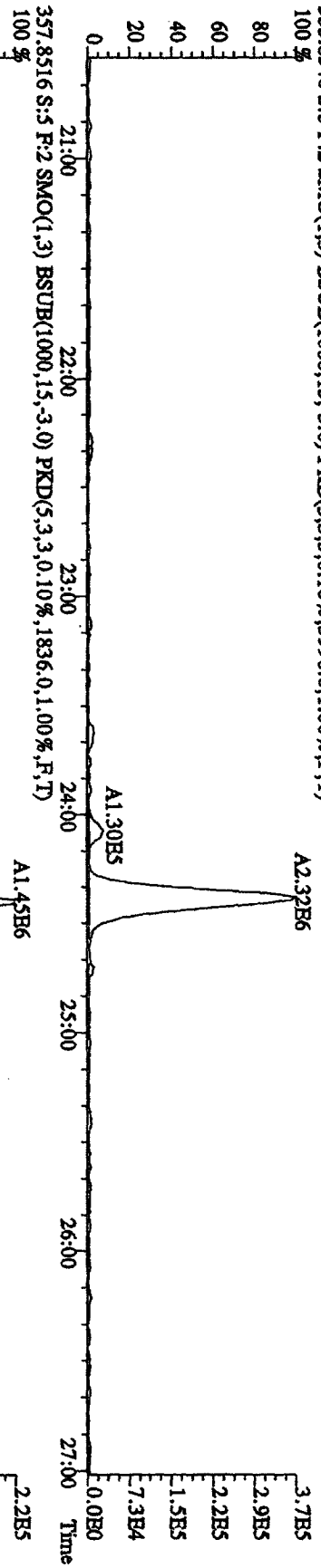


File: 271L101D5 #1-382 Acq: 27-JUL-2010 10:54:32 GC HI + Voltage SIR 70SE  
 Sample#5 Text: ST0727C :CSI 10DXN342 Exp: DIOXINRES  
 339.8597 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2332.0,1.00%,F,T)

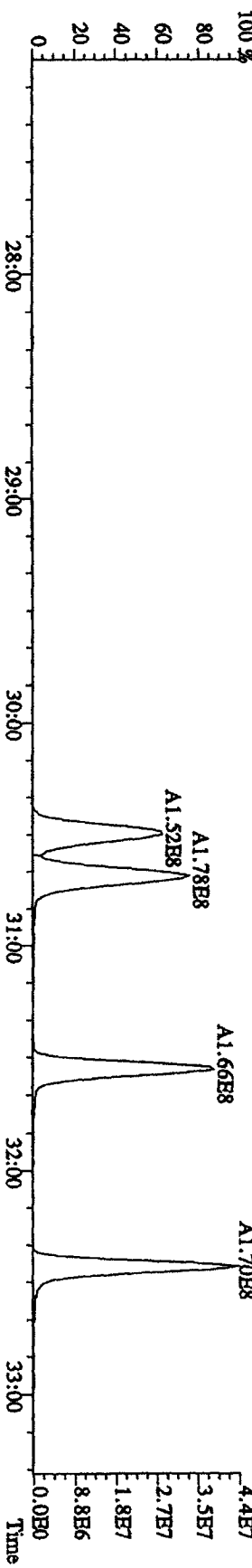
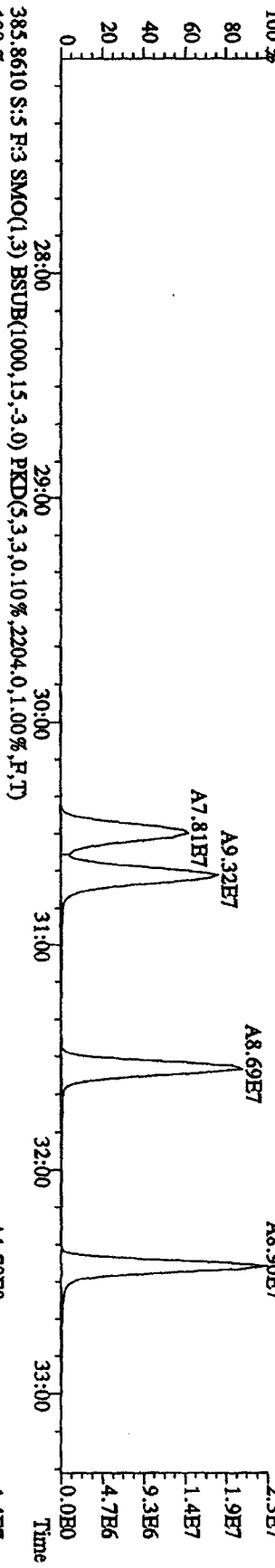
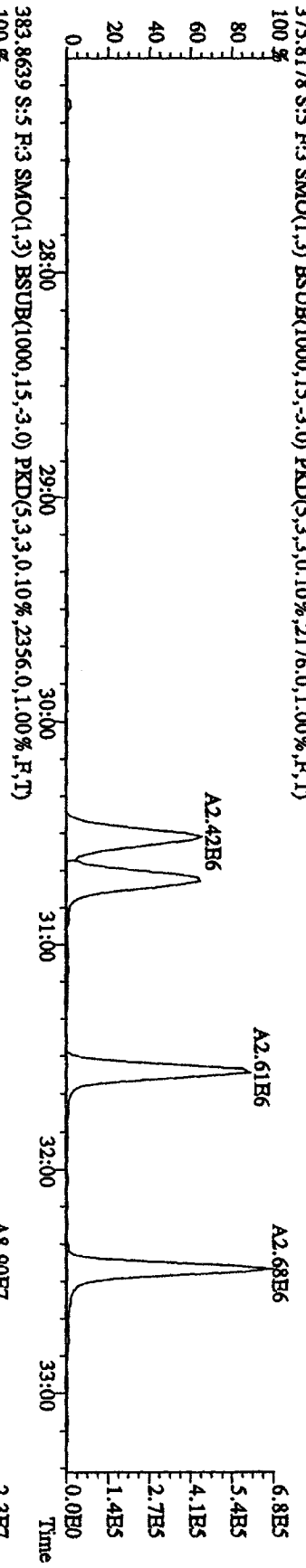
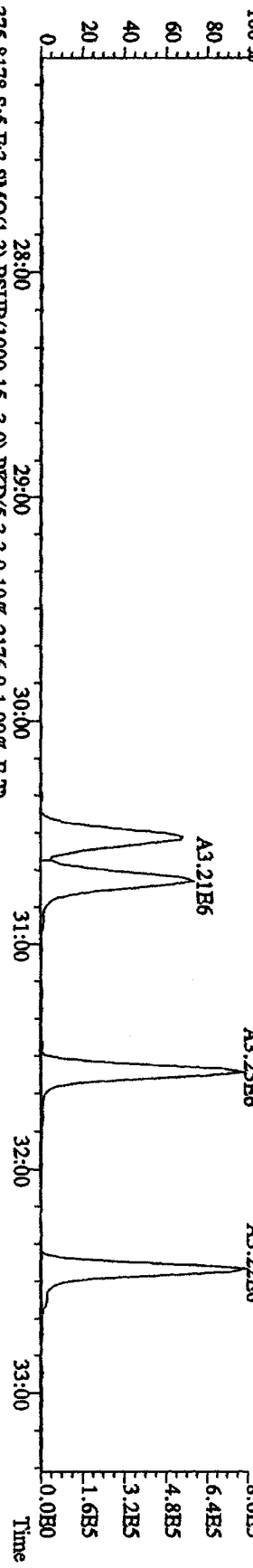




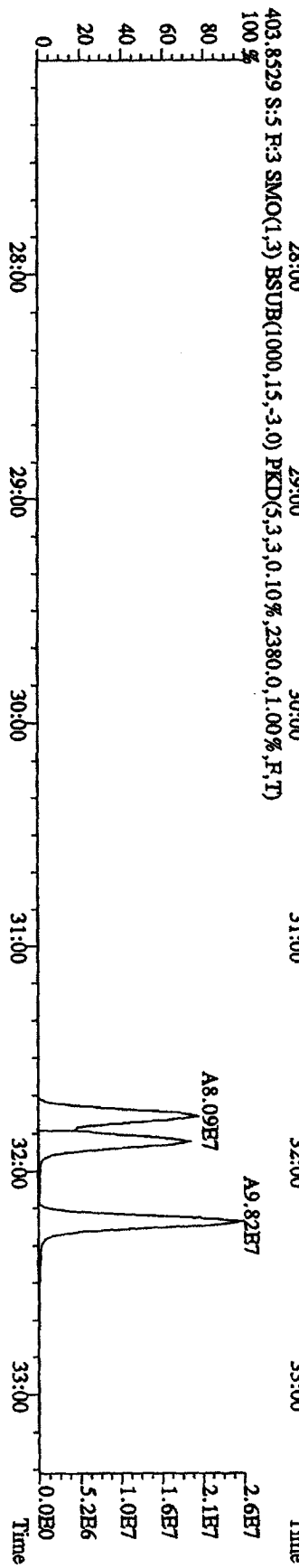
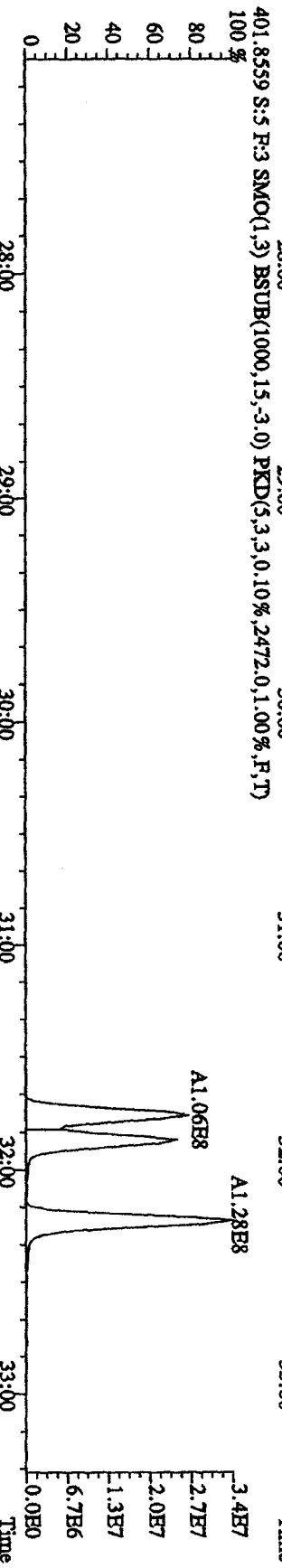
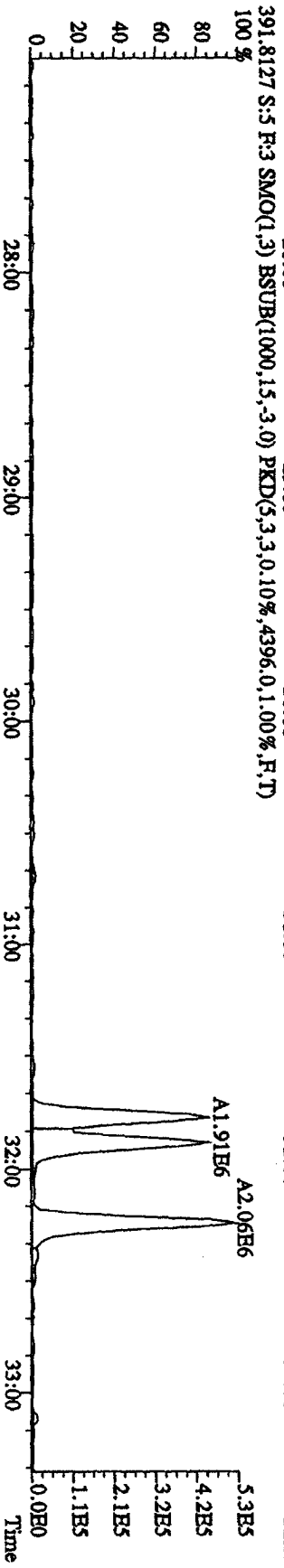
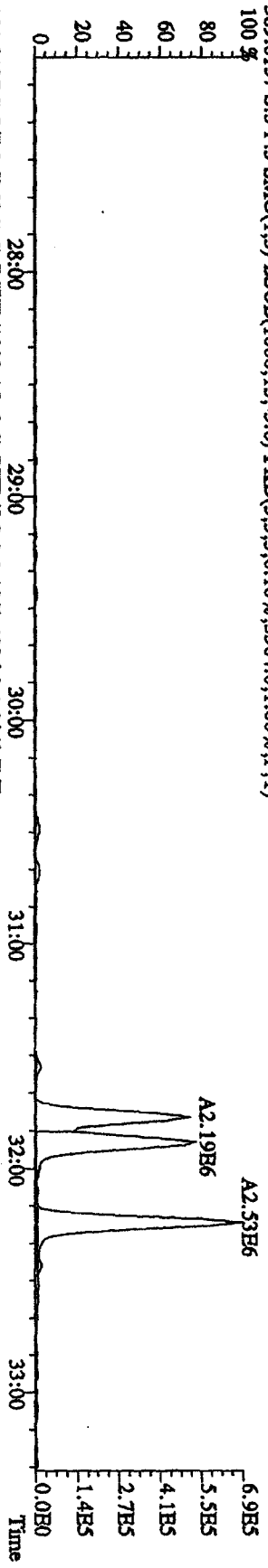
File:27JUL101D5 #1-404 Acq:27-JUL-2010 10:54:32 GC EI + Voltage SIR 70SE  
 Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES  
 355.8546 S:5 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3996.0,1.00%,F,T)



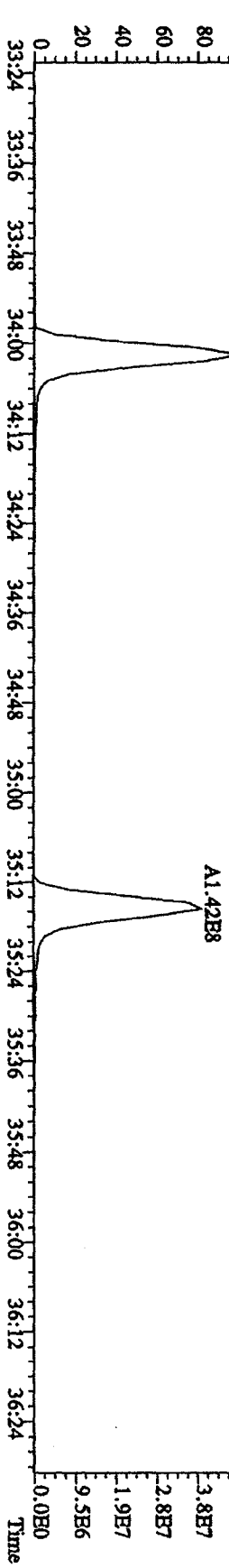
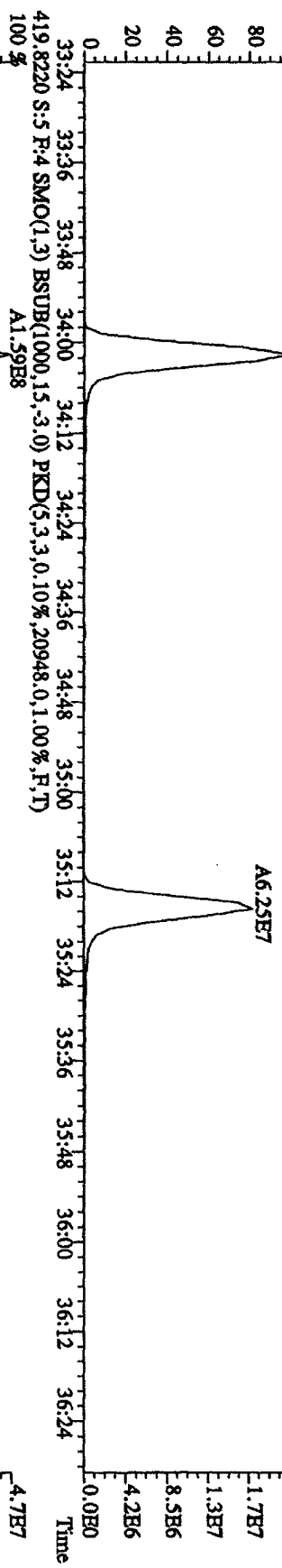
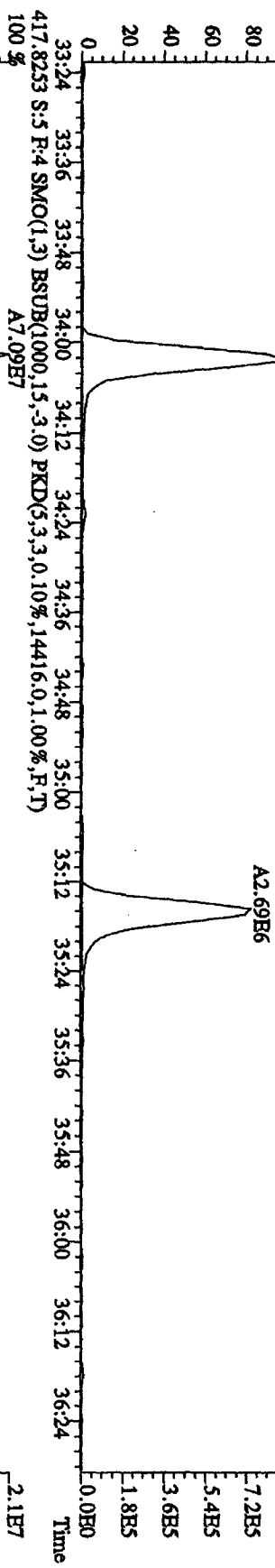
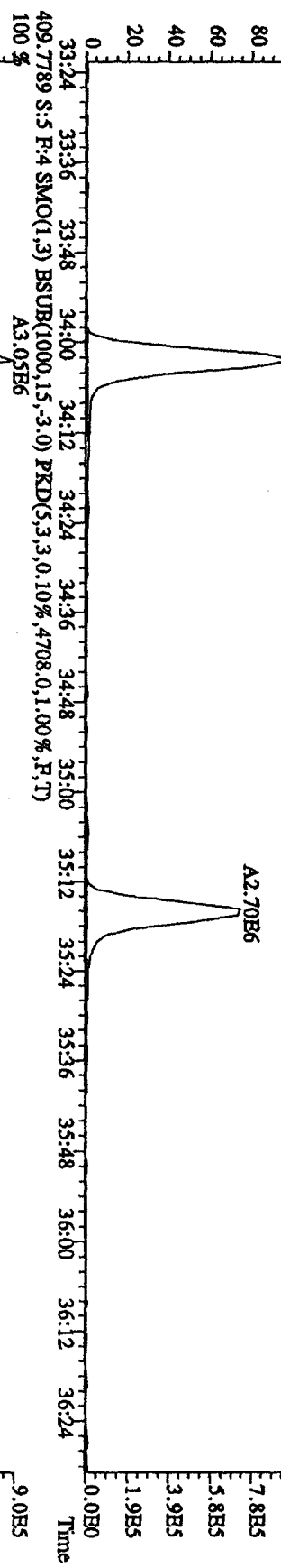
File: 27IL101D5 #1-406 Acq: 27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SB  
 Sample#5 Text: ST0727C :CSI 10DXN342 Exp: DIOXINES  
 373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2756,0,1,00%,F,T)



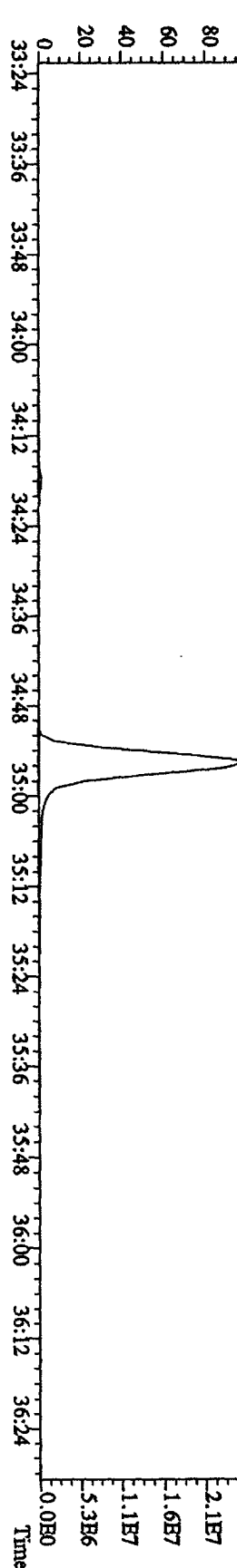
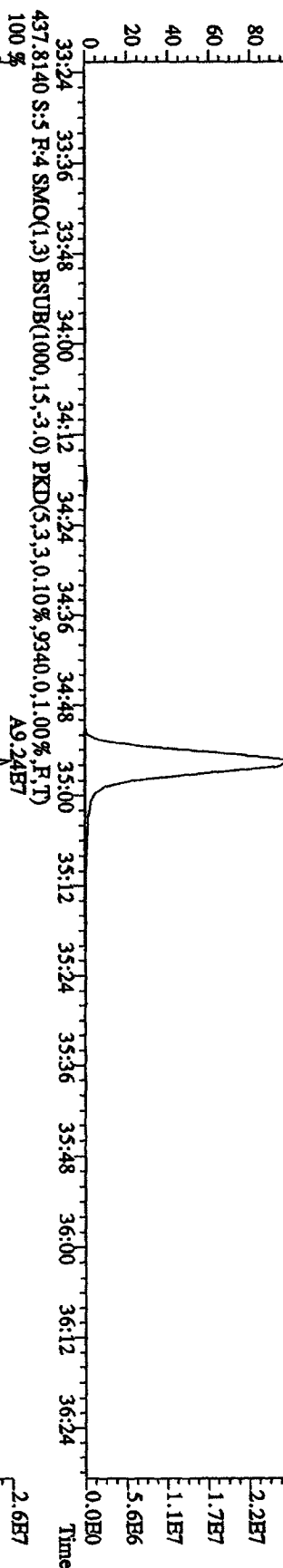
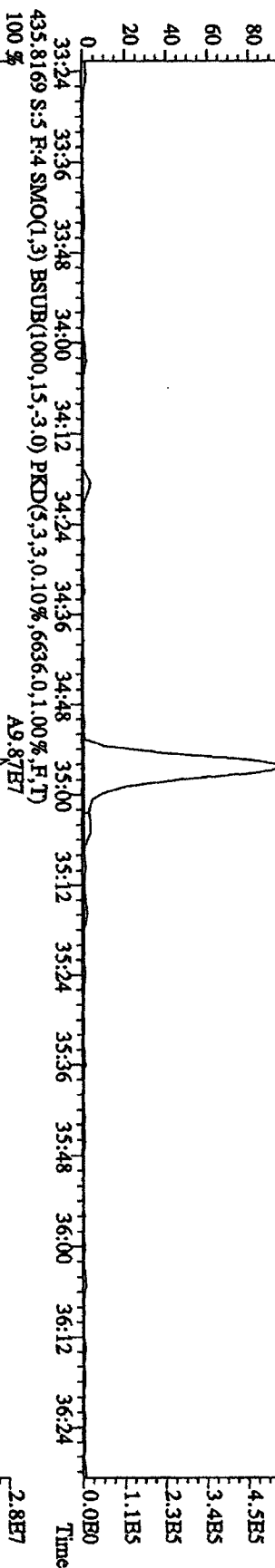
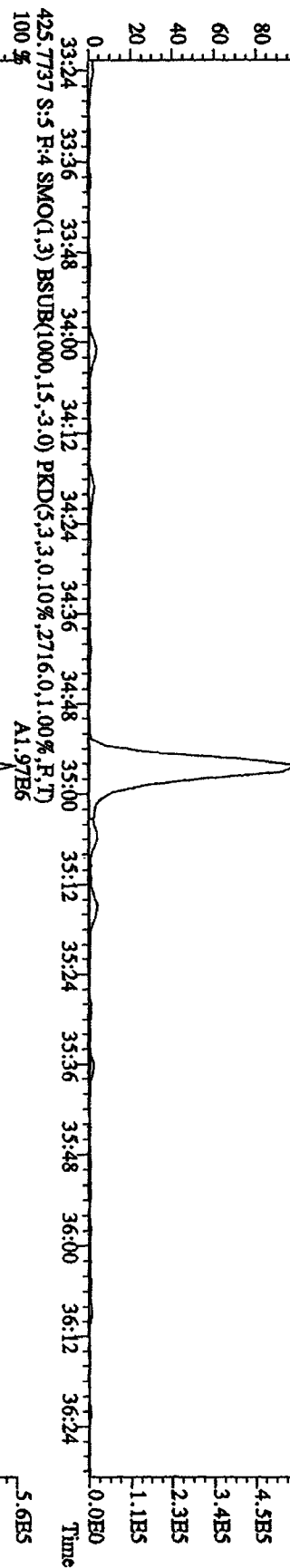
File:27JL101D5 #1-406 Acq:27-JUL-2010 10:54:32 GC HI+ Voltage SIR 70SE  
 Sample#5 Text:ST0727C :CS1 10DXN342 Exp:DIOXINRES  
 389.8157 S:5 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3364,0,1,00%,F,T)



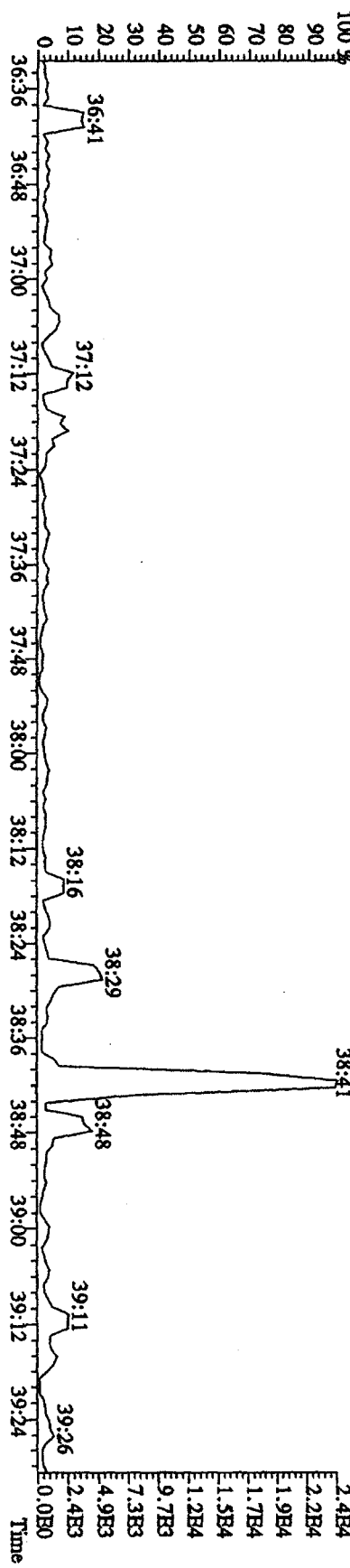
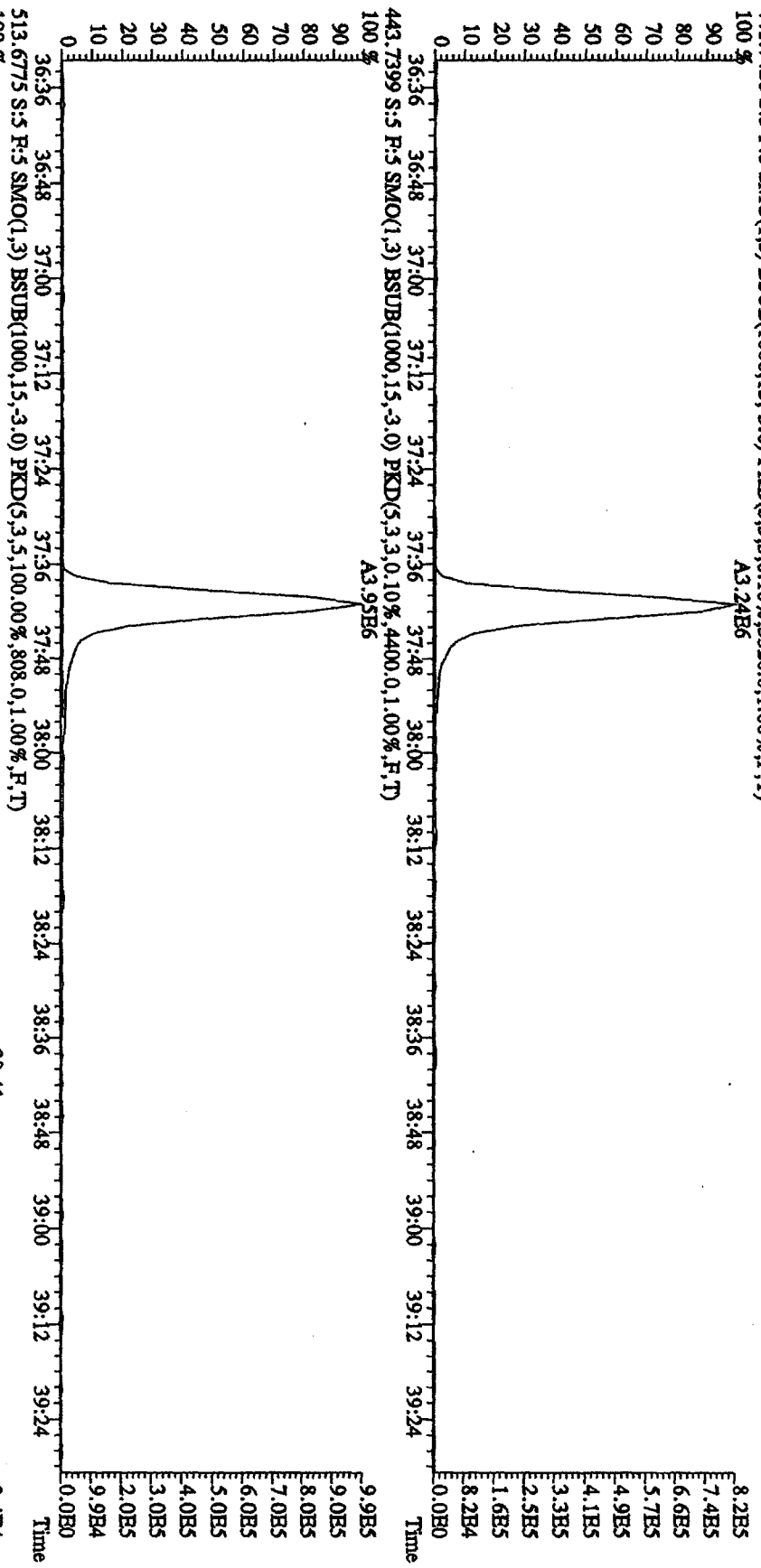
File:27JL101D5 #1-214 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SE  
 Sample#5 Text:ST0727C :CSI 10DXN342 Exp:DIOXINRES  
 407.7818 S:5 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5052,0.1,00%,F,T)  
 100%



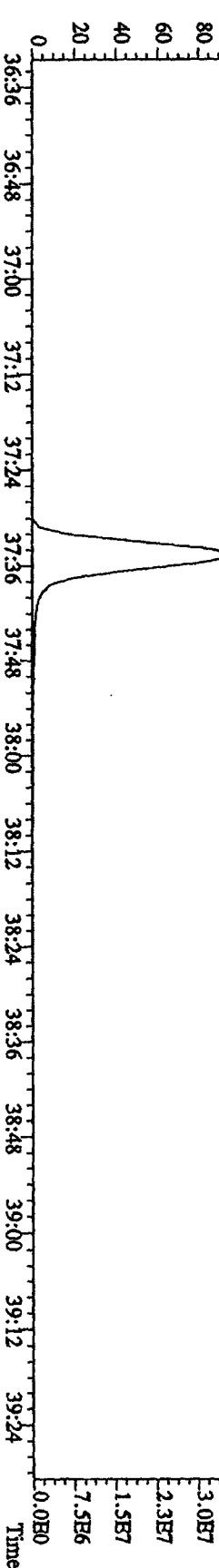
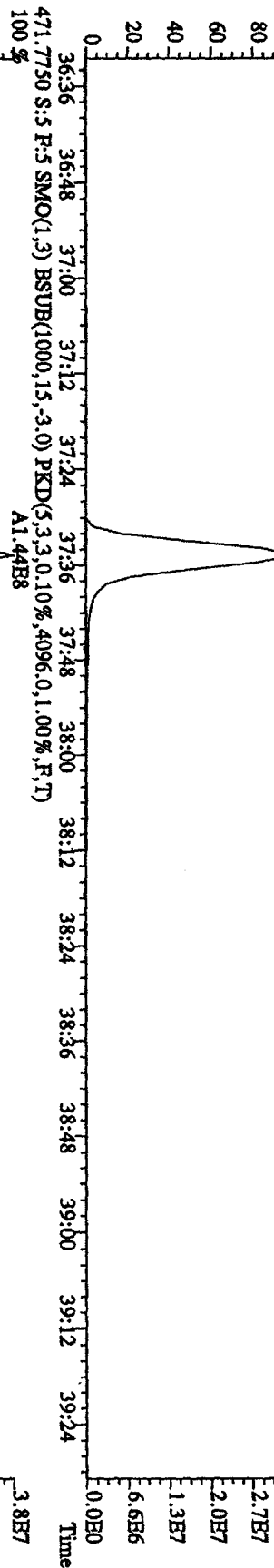
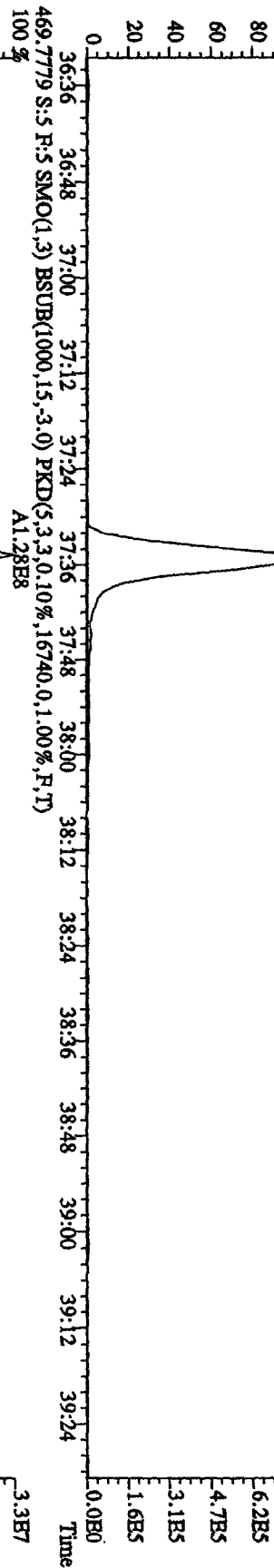
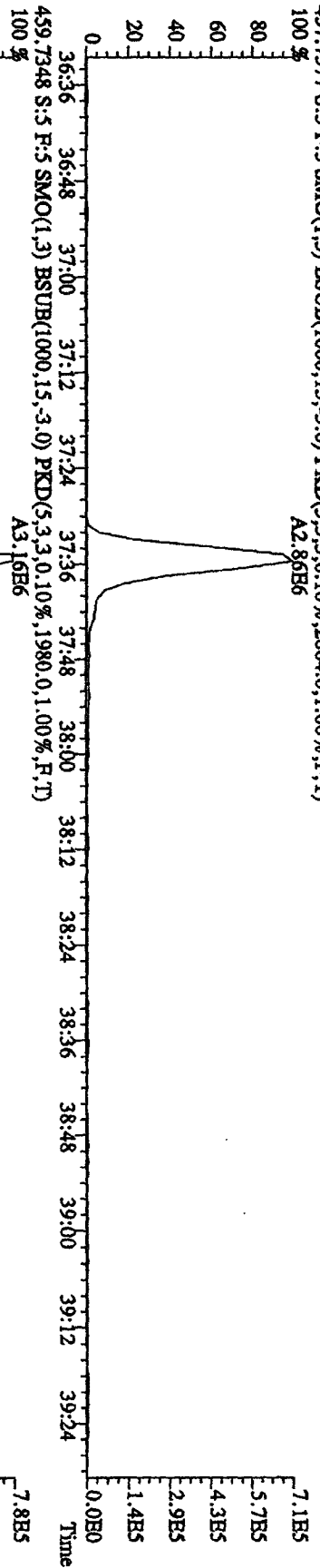
File:27IL101D5 #1-214 Acq:27-JUL-2010 10:54:32 GC HI + Voltage SIR 70SB  
 Sample#5 Text:ST0727C :CSI 10DXN342 Exp:DIOXINRES  
 423.7737 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3400.0,1.00%,F,T)  
 100 % A2.01E6



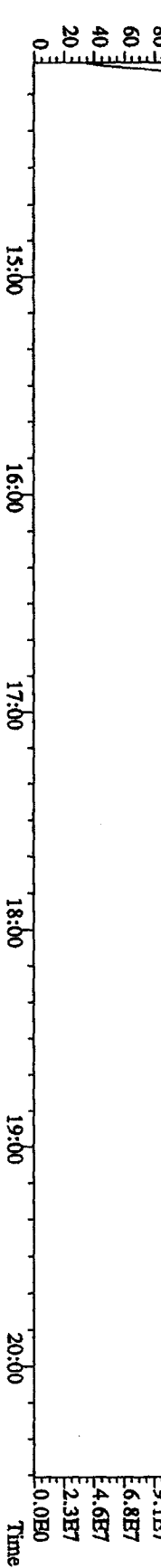
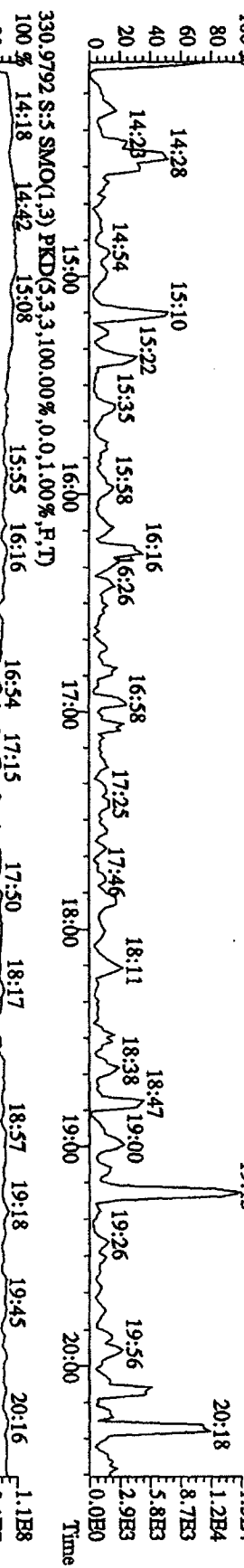
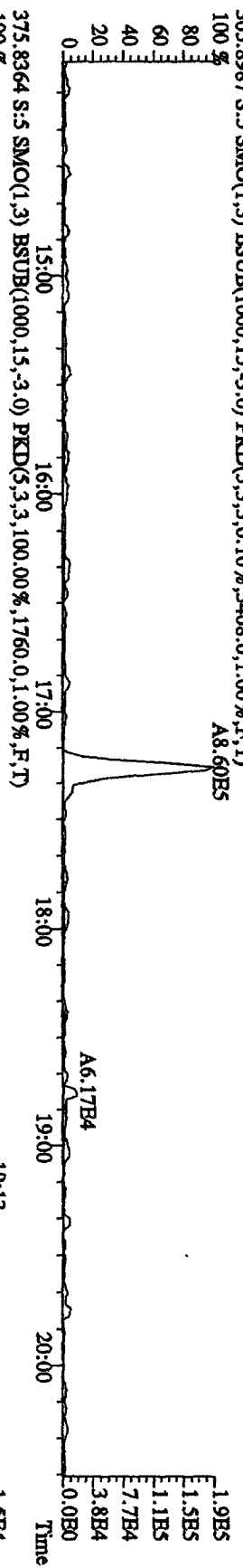
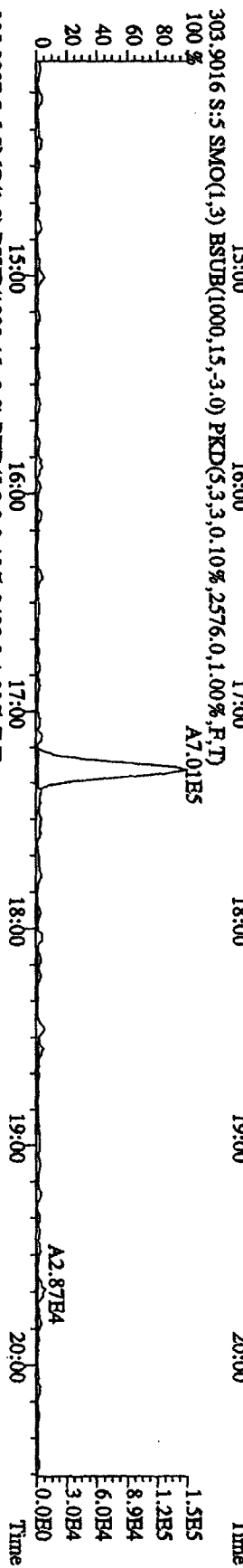
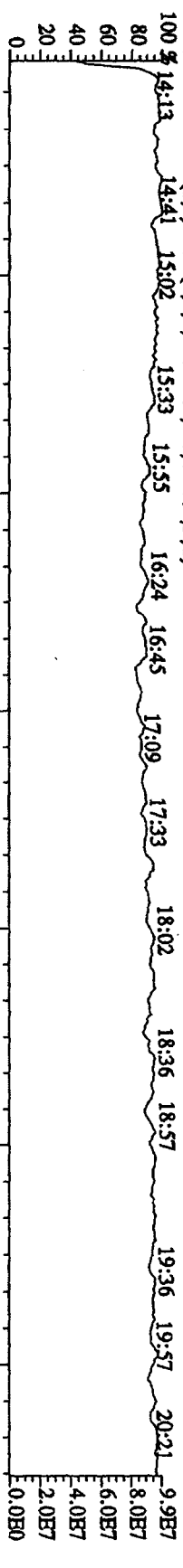
File: 27JUL101D5 #1-196 Acq: 27-JUL-2010 10:54:32 GC HI + Voltage SIR 70SE  
 Sample5 Text: ST0727C :CSI 10DXN342 Exp: DIOXINRES  
 441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3320,0,1,00%,F,T)  
 100%



File:27JUL101D5 #1-196 Acq:27-JUL-2010 10:54:32 GC EI+ Voltage SIR 70SB  
 Sample#5 Text:ST0727C :CSI 10DXN342 Exp:DIOXINRES  
 457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.2864,0.1,0.00%,F,T)  
 100 %



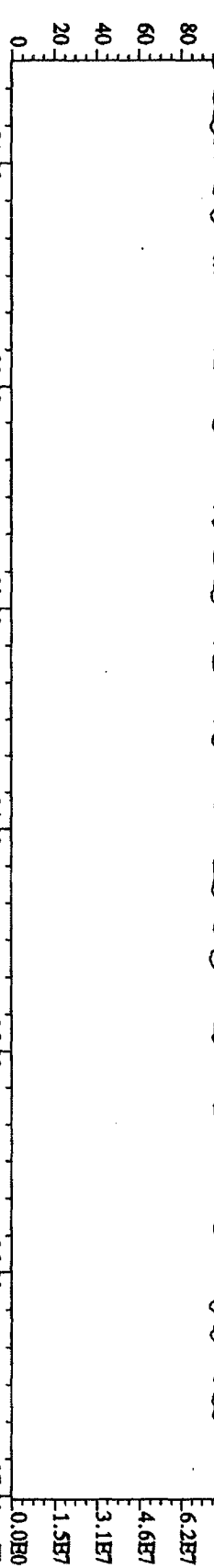
File: 27IL101D5 #1-382 Acq: 27-JUL-2010 10:54:32 GC EI + Voltage SIR 70SB  
 Sample#5 Text: ST0727C :CSI 10DXN342 Exp: DIOXINRES



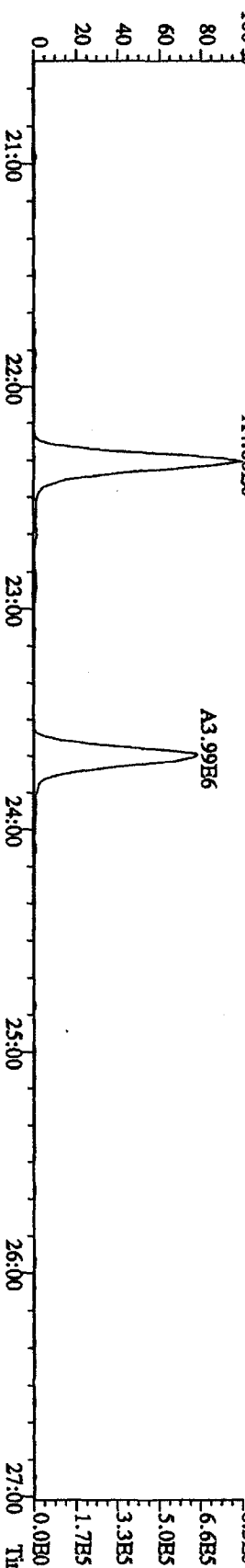


File: 2711101D5 #1-404 Acq: 27-JUL-2010 10:54:32 GC BI + Voltage SIR 70SB  
 Sample# 5 Text: ST0727C :CSI 10DXN342 Exp: DIOXINRES

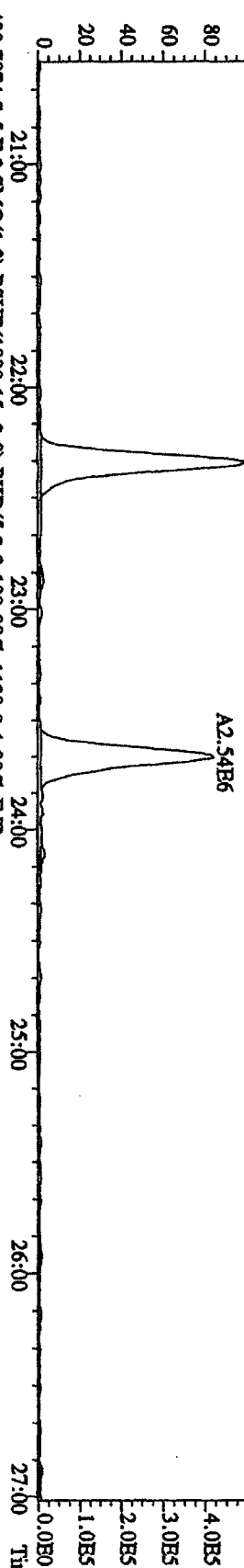
342.9792 S:5 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 20:58 21:20 21:42 22:07 22:40 23:01 23:25 24:02 24:42 25:08 25:33 25:59 26:20 26:42



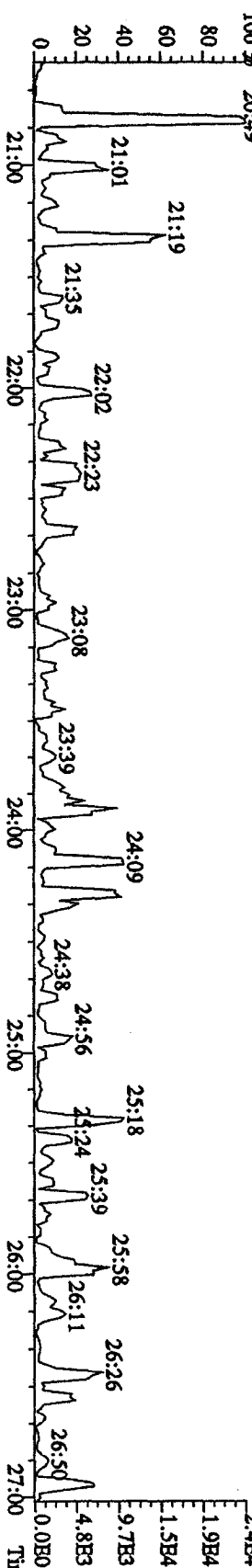
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2972.0,1.00%,F,T) 8.3B5 6.6B5 5.0B5 3.3B5 1.7B5 0.0B0



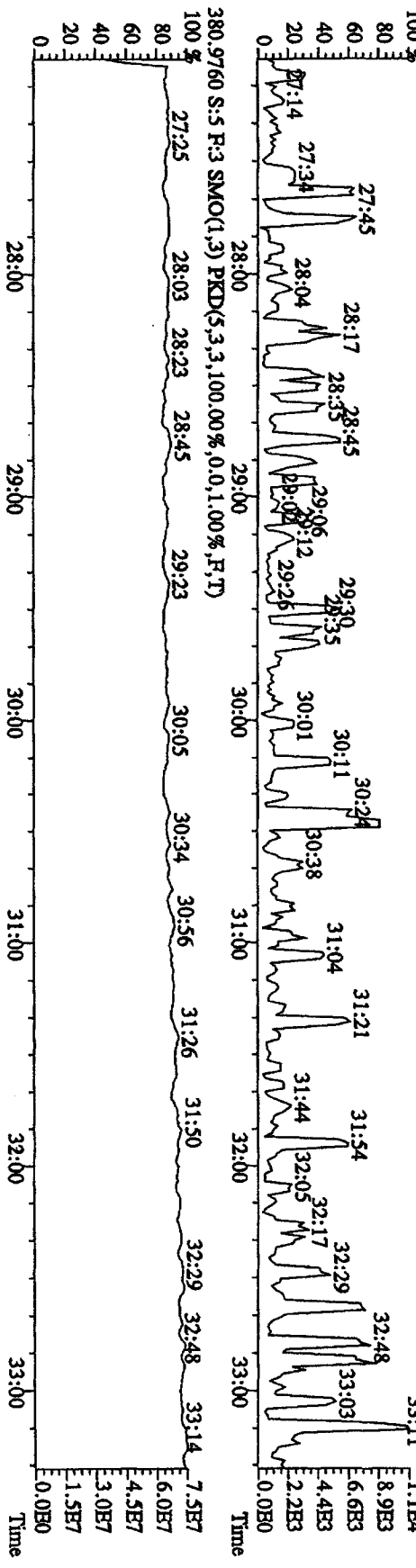
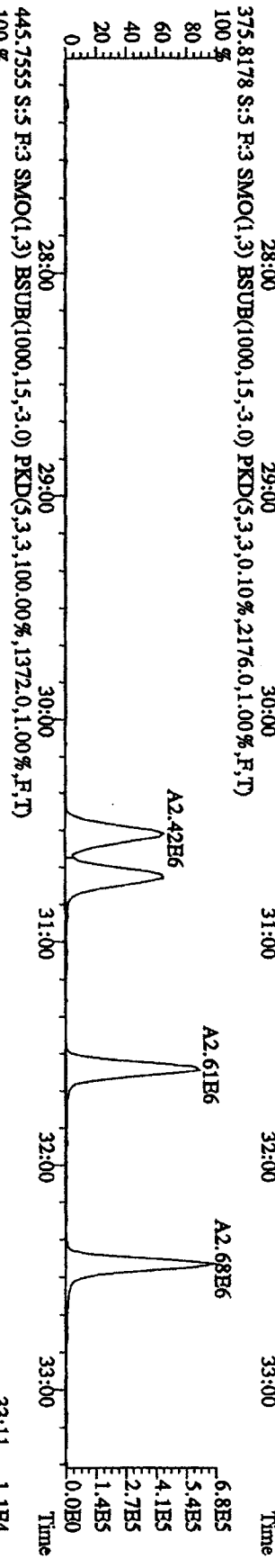
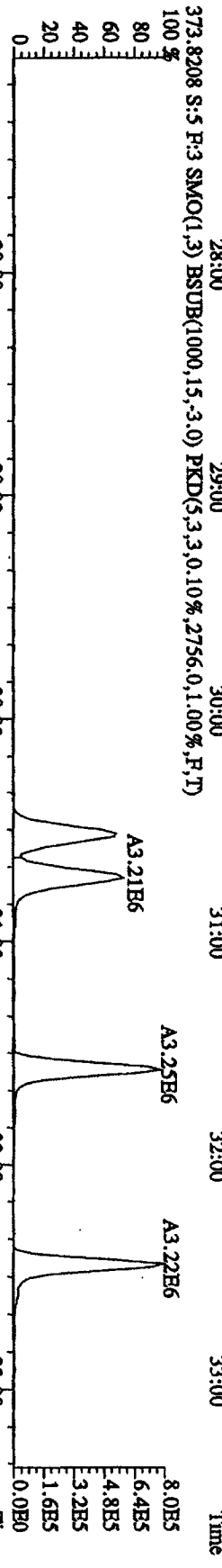
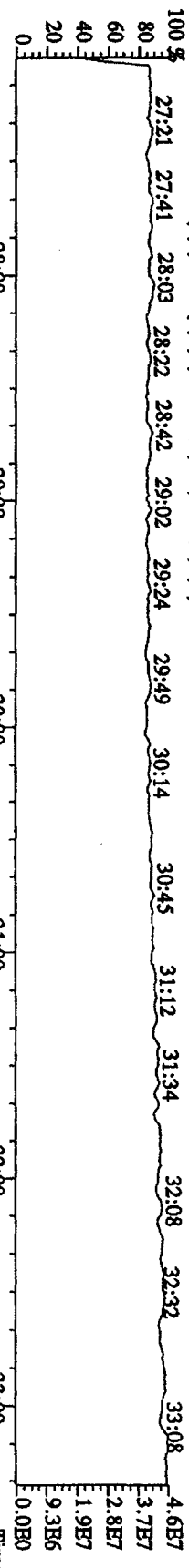
341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5252.0,1.00%,F,T) 5.0B5 4.0B5 3.0B5 2.0B5 1.0B5 0.0B0



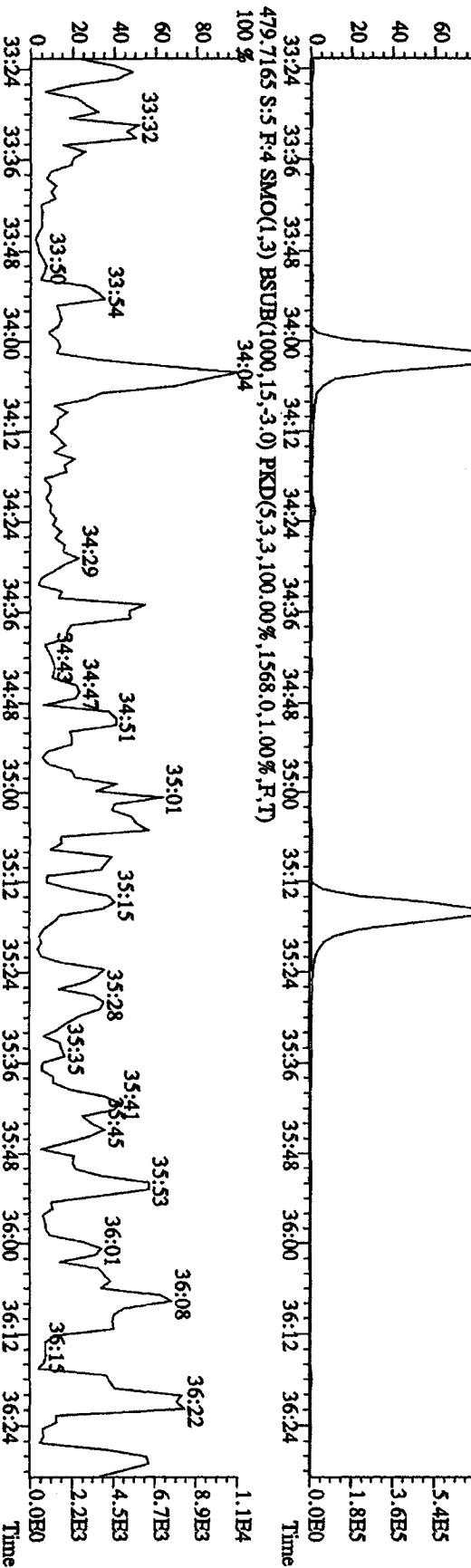
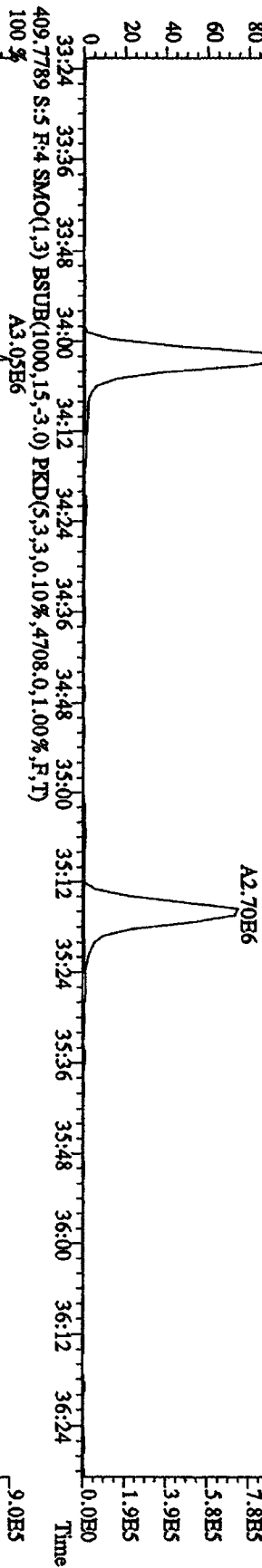
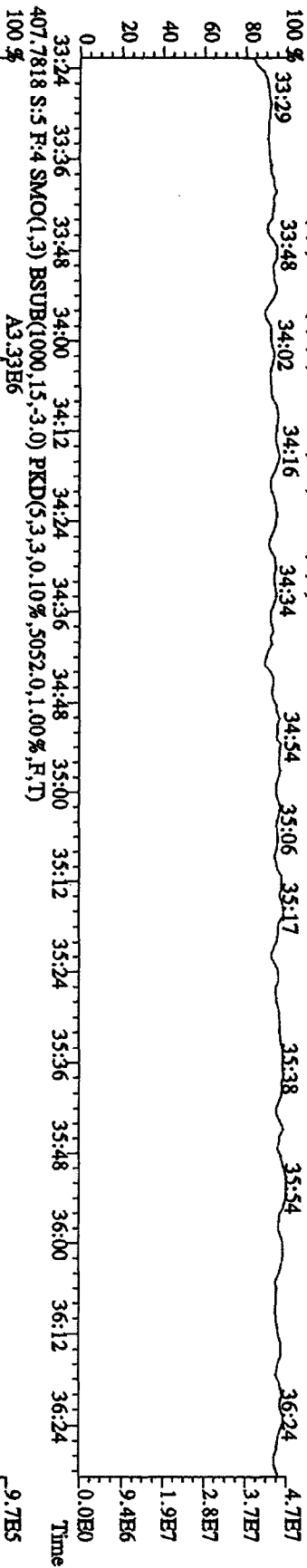
409.7974 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1128.0,1.00%,F,T) 2.4B4 1.9B4 1.5B4 9.7B3 4.8B3 0.0B0



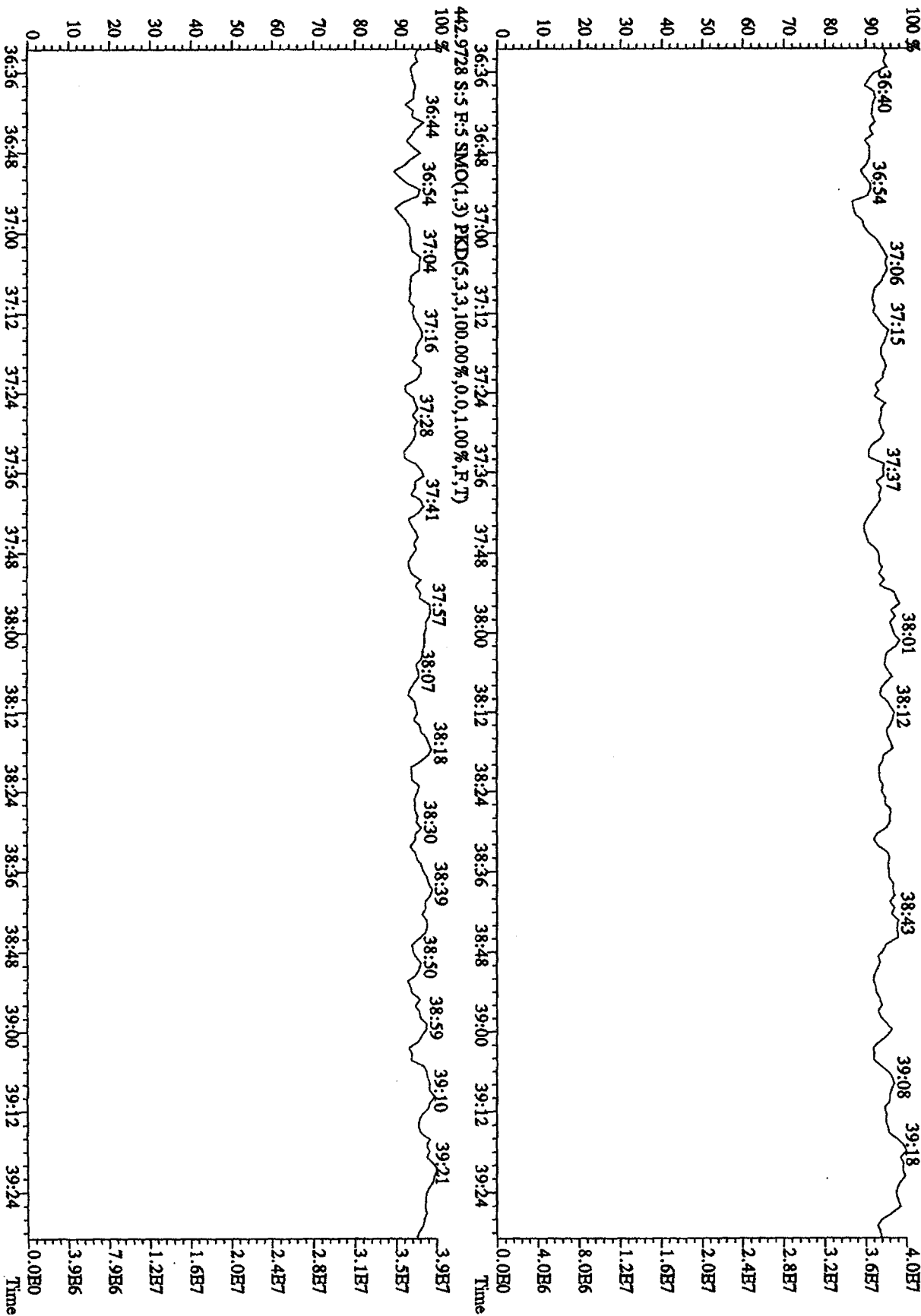
File: 271L101D5 #1-406 Acq: 27-JUL-2010 10:54:32 GC EI + Voltage SIR 70SE  
 Sample#5 Text: ST0727C :CS1 10DXN342 Exp: DIOXINRES



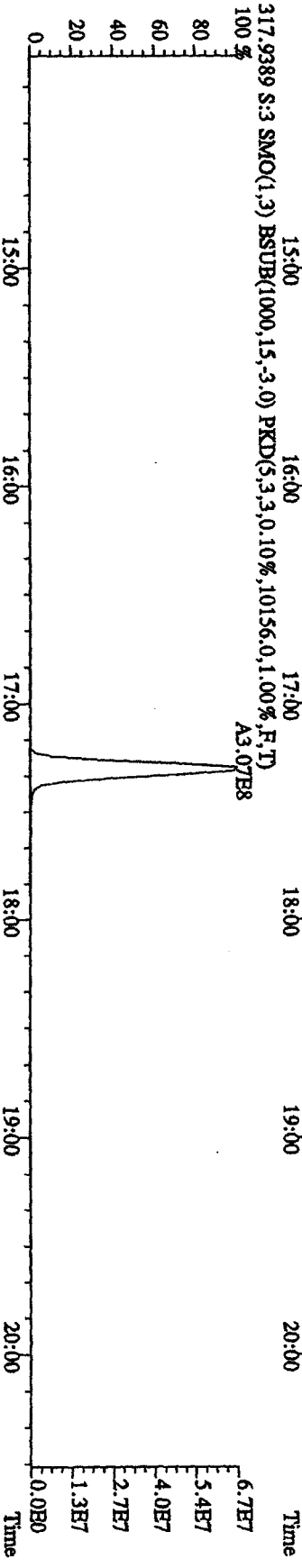
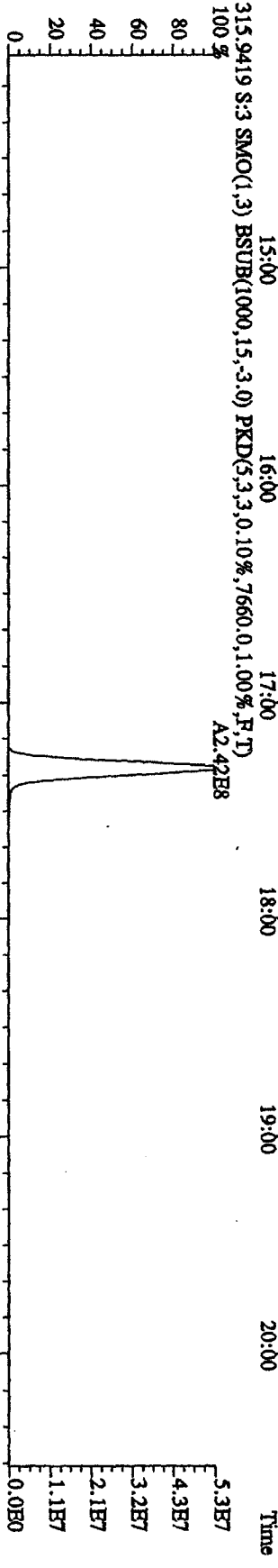
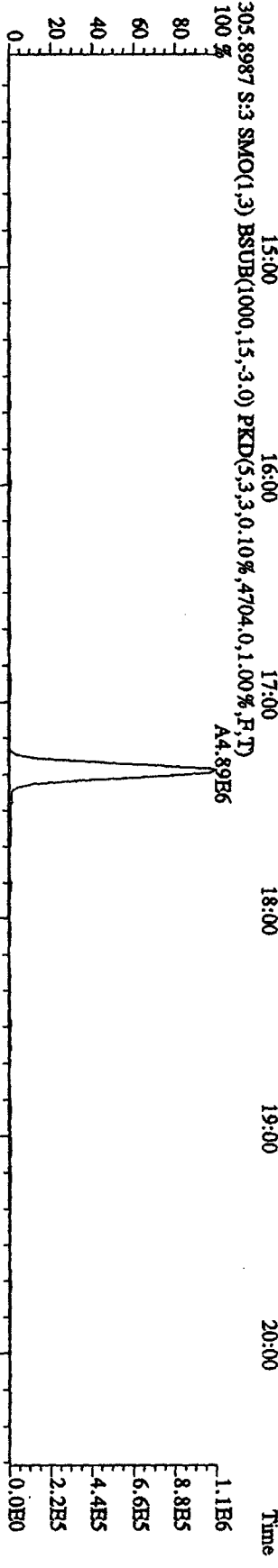
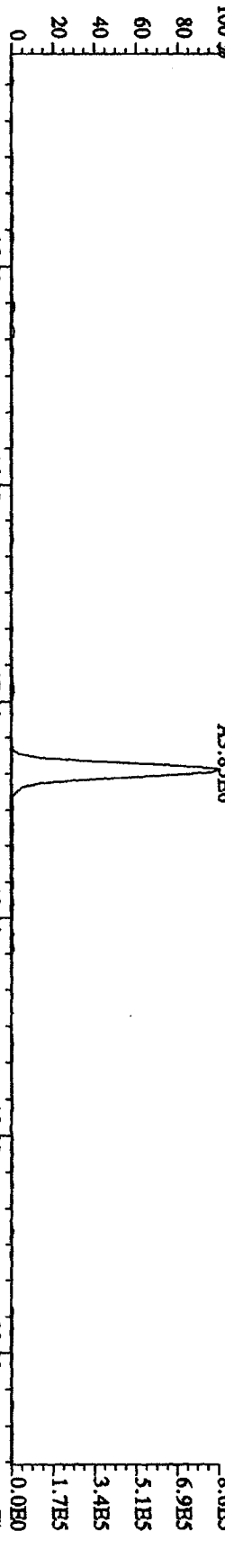
File: 27JL101D5 #1-214 Acq: 27-JUL-2010 10:54:32 GC HI + Voltage SIR 70SE  
 Sample#5 Text: ST0727C : CSI 10DXN342 Exp: DIOXINRES  
 430.9728 S:5 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 % 33:29 33:48 34:02 34:16 34:34 34:54 35:06 35:17 35:38 35:54



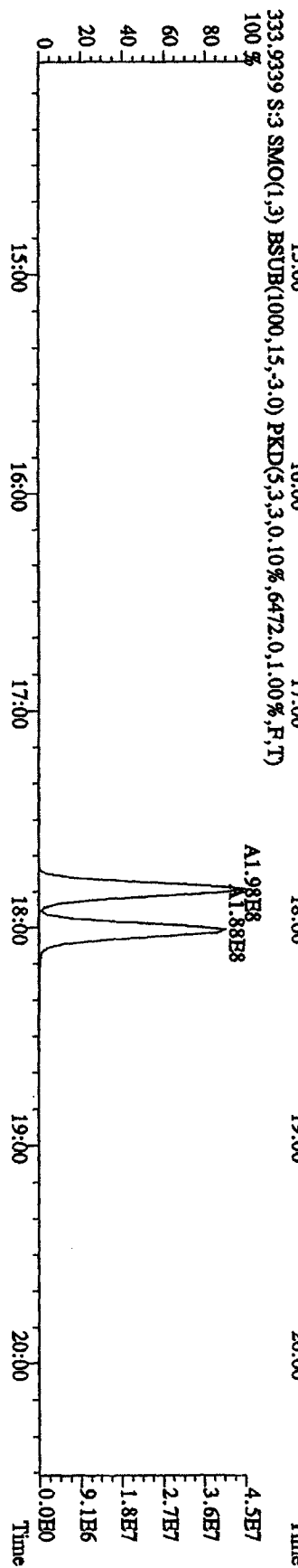
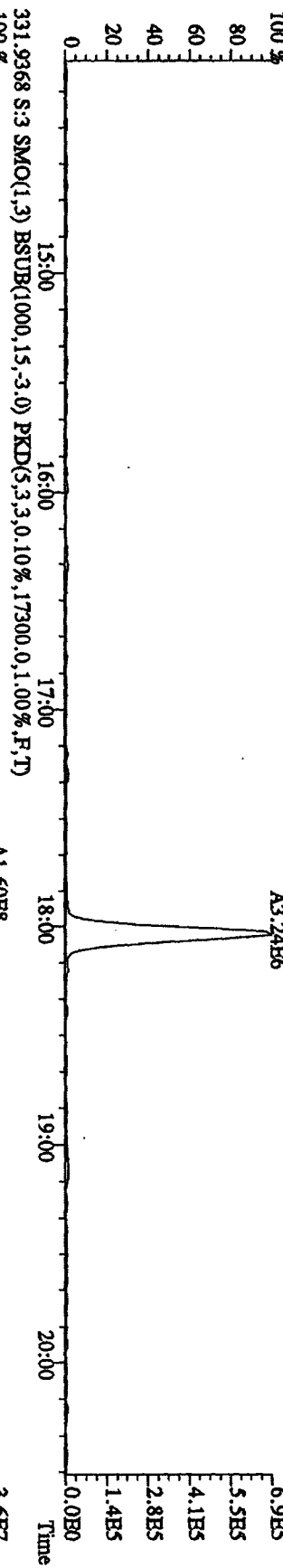
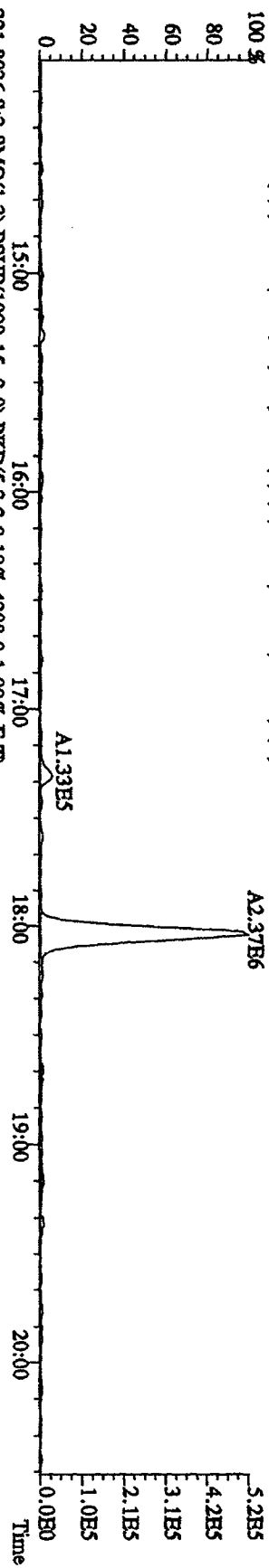
File: 27TL101D5 #1-196 Acq: 27-JUL-2010 10:54:32 GC EI + Voltage SIR 70SE  
 Sample#5 Text: ST0727C :CSI 10DXN342 Exp: DIOXINRES  
 454.9728 S:5 F:5 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



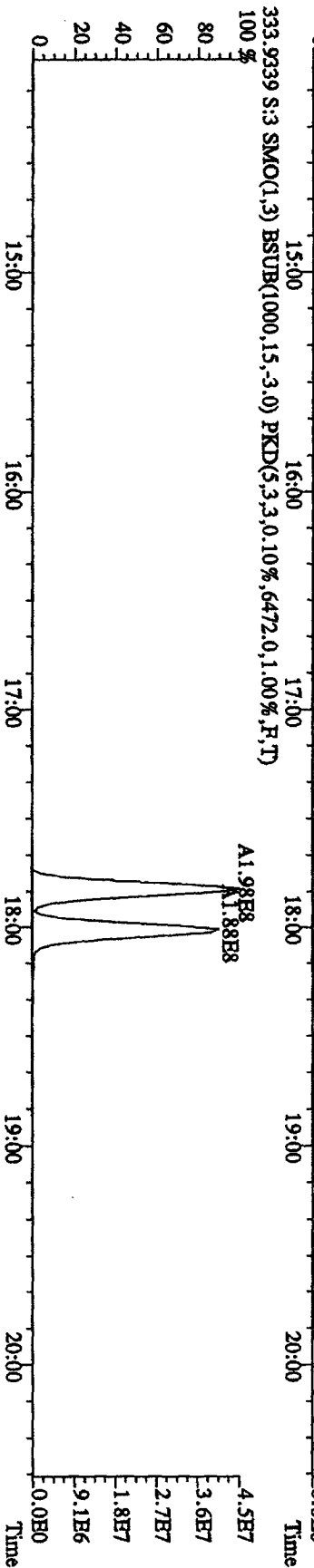
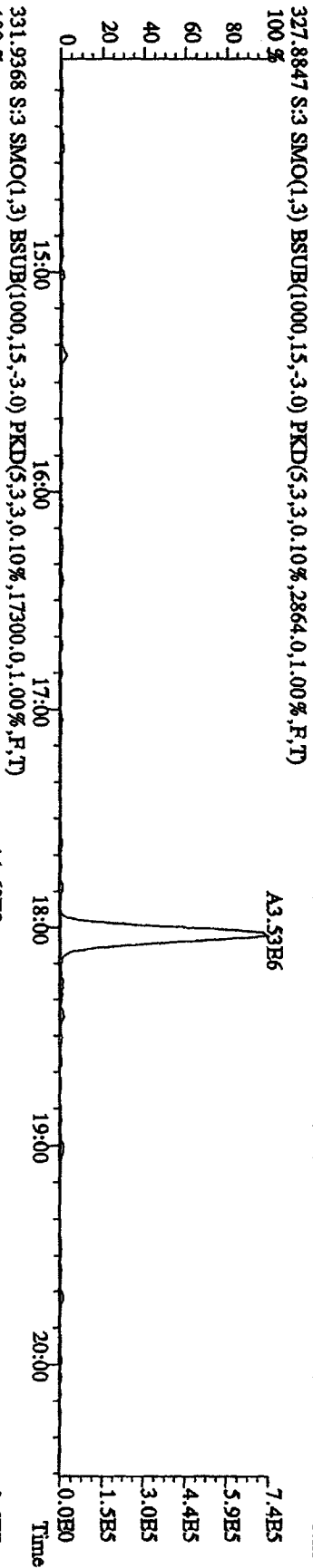
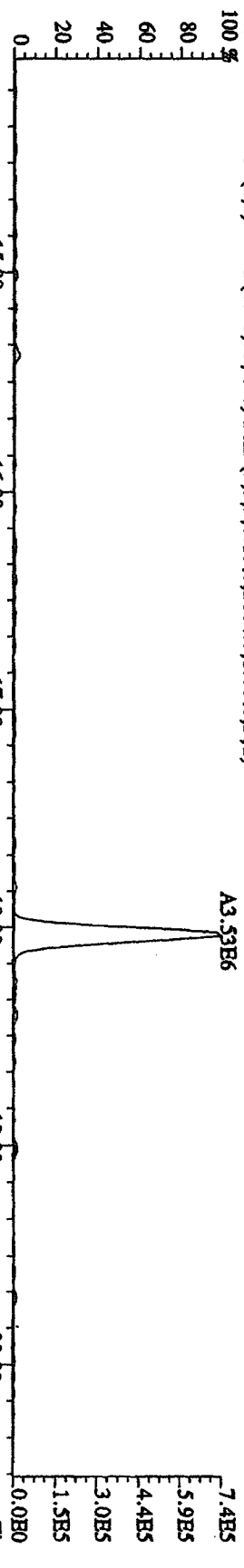
File: 271L101D5 #1-382 Acq: 27-JUL-2010 09:25:53 GC HI + Voltage SIR 70SB  
 Sample#3 Text: ST0727A : CS2 10DXN335 Exp: DIOXINRES  
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3556,0,1,00%,F,T)  
 100%



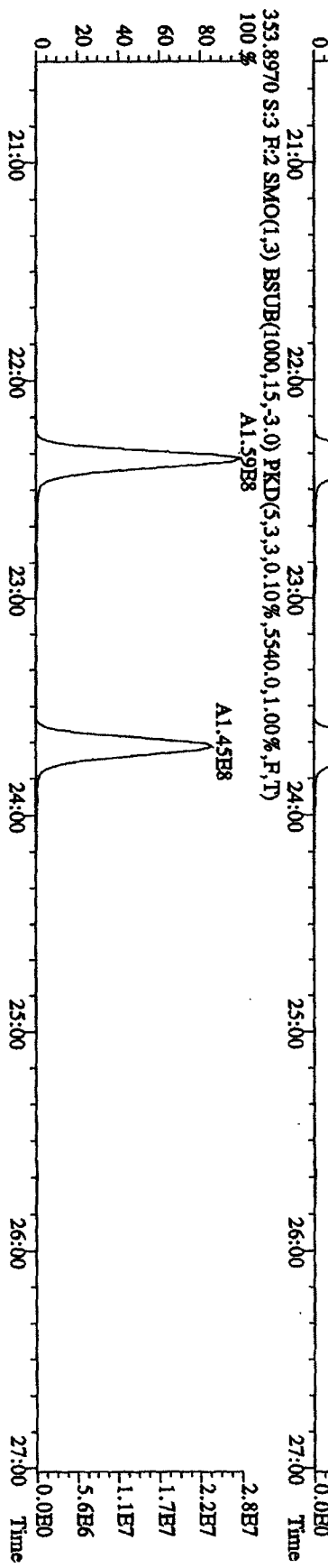
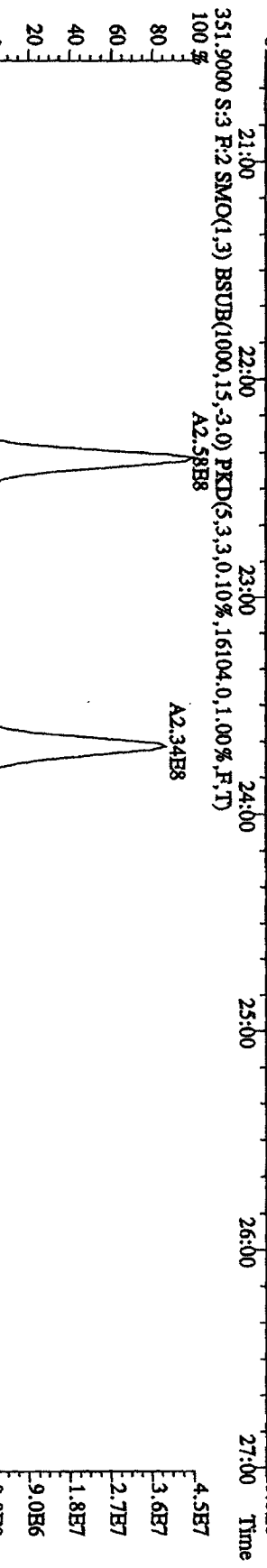
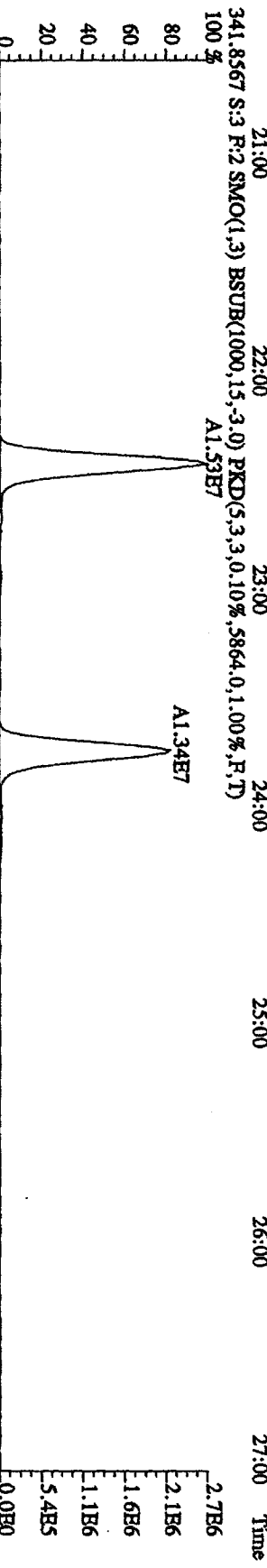
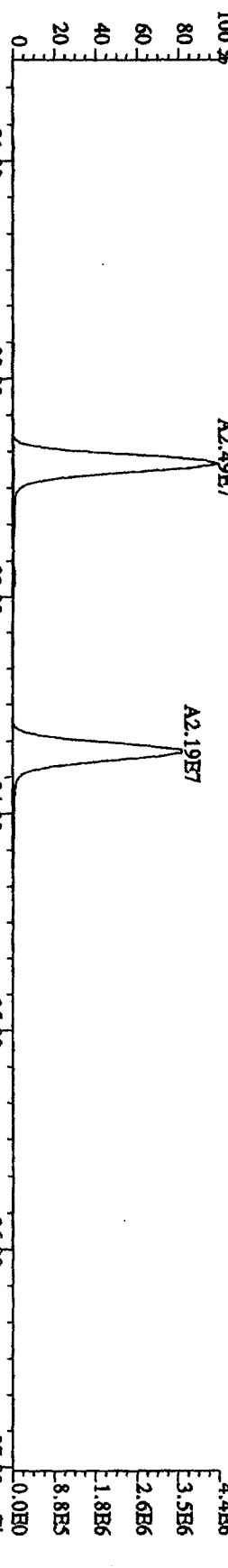
File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 09:25:53 GC EI+ Voltage: SIR 70SE  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINRES  
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3428,0.1,0.0%,F,T) 100%



File: 271L101D5 #1-382 Acq: 27-JUL-2010 09:25:53 GC BI + Voltage SIR 70SE  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINRES  
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2864,0,1,00%,F,T)

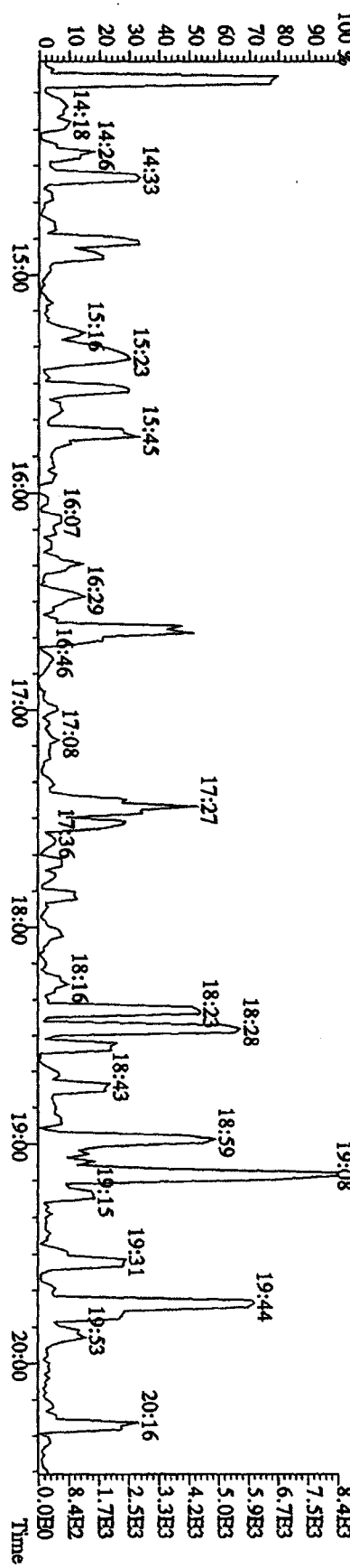
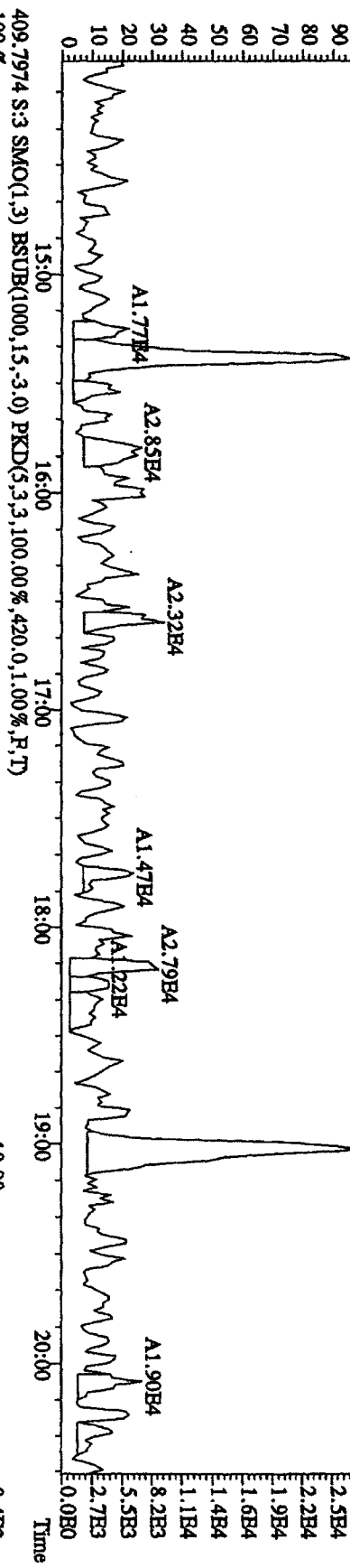
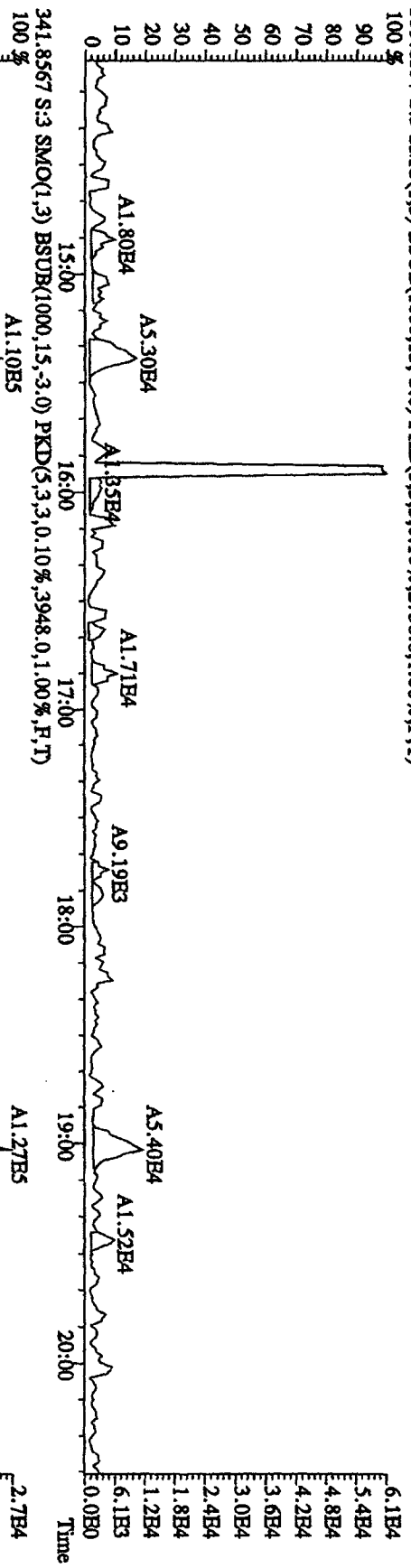


File: 27IL101D5 #1-404 Acq: 27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SB  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINES  
 339.8597 S:3 P:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3848,0.1,00%,F,T)  
 A2.49E7

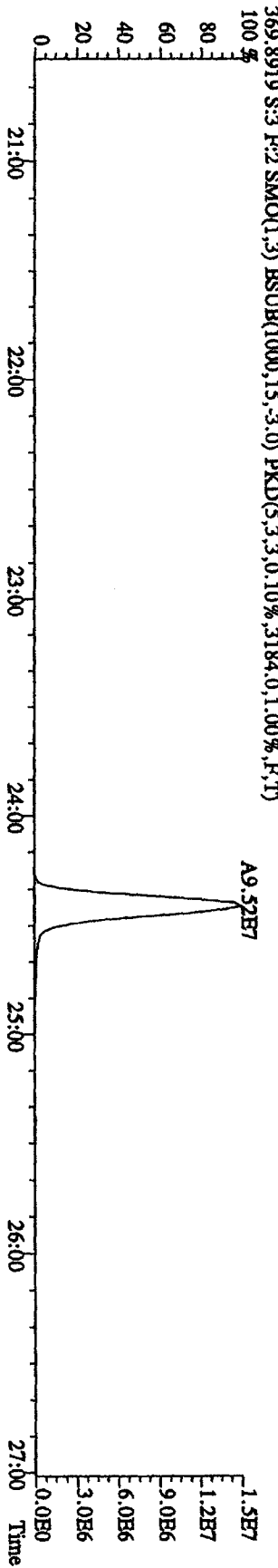
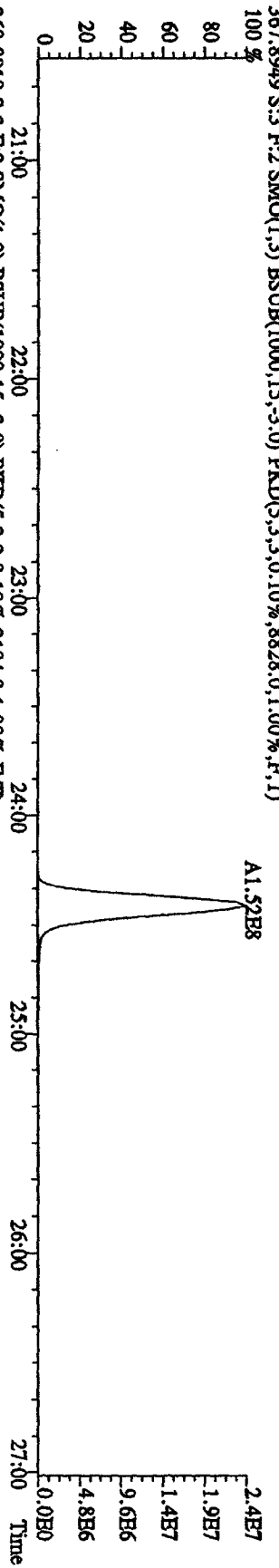
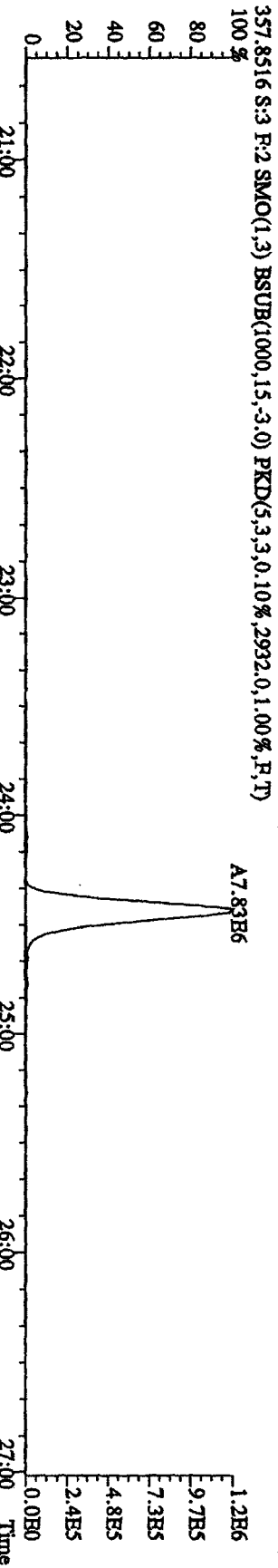
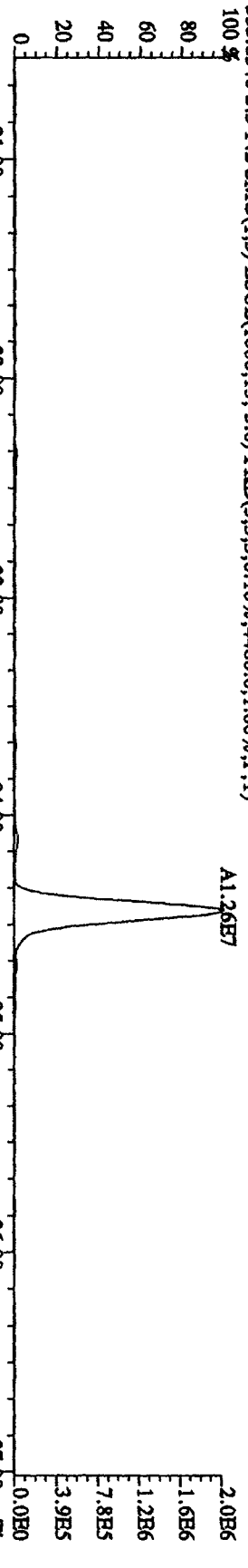




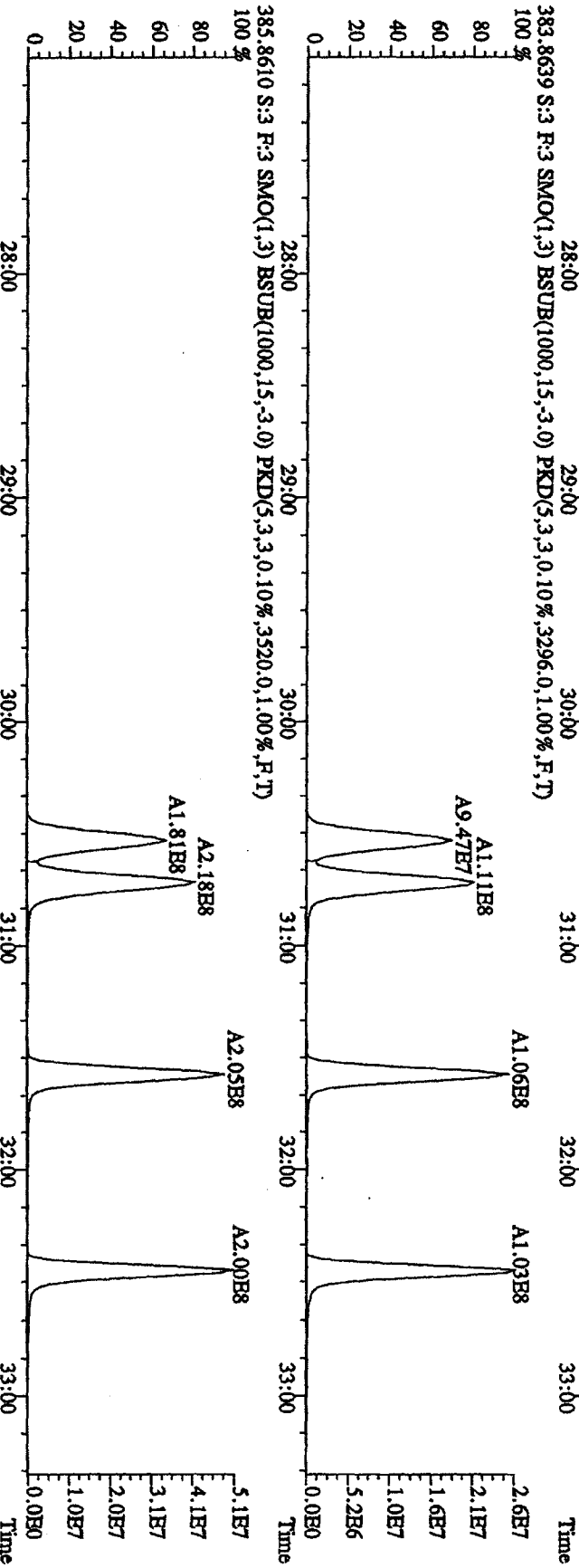
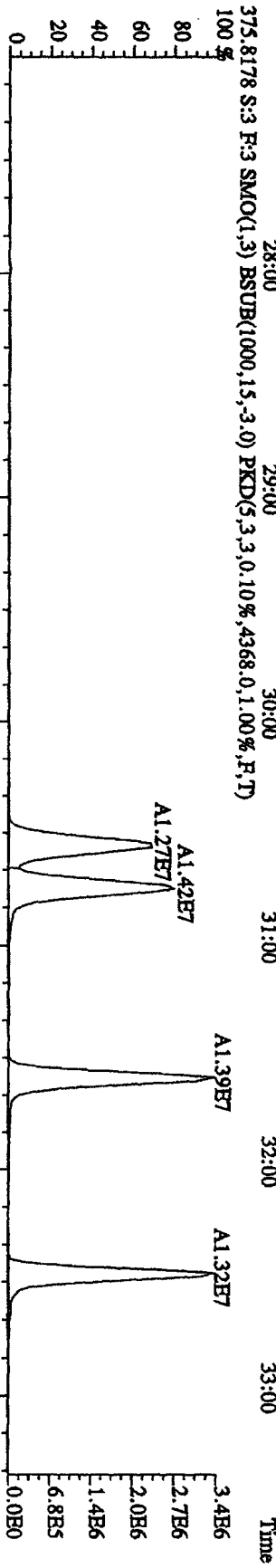
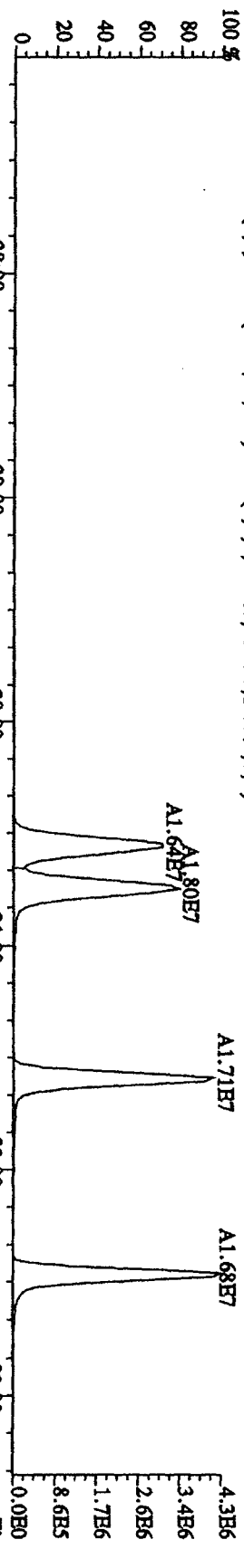
File:271L101D5 #1-382 Acq:27-JUL-2010 09:25:53 GC HI + Voltage SIR 70SE  
 Sample#3 Text:ST0727A :CS2 10DXN335 Exp.:DIOXINRES  
 339.8597 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,2736,0,1,00%,F,T)



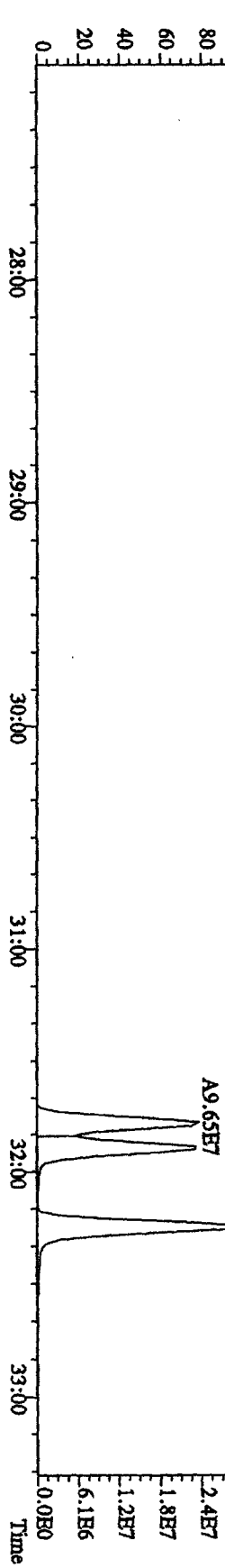
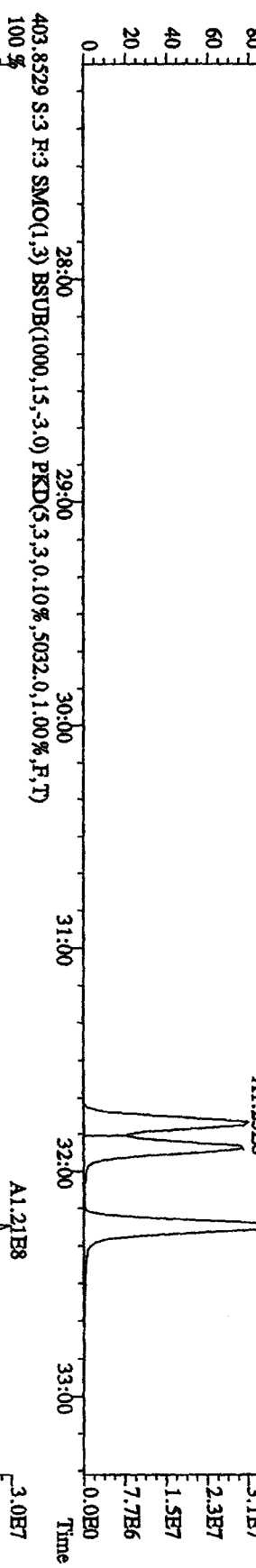
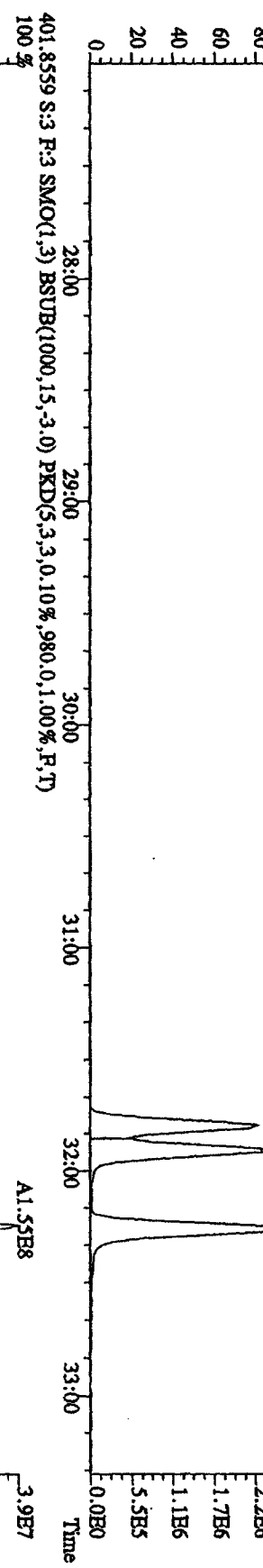
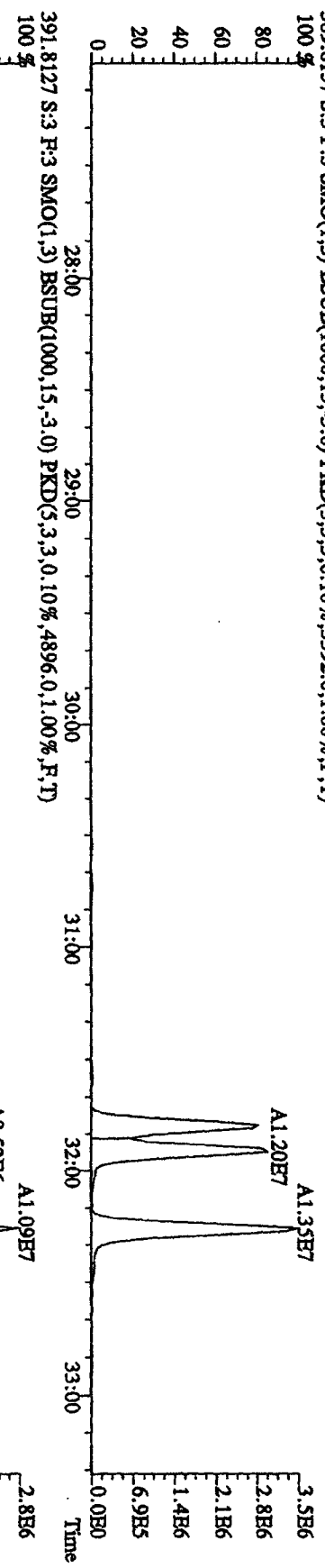
File: 27JL101D5 #1-404 Acq: 27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINRES  
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4480,0.1,0.00%,F,T)



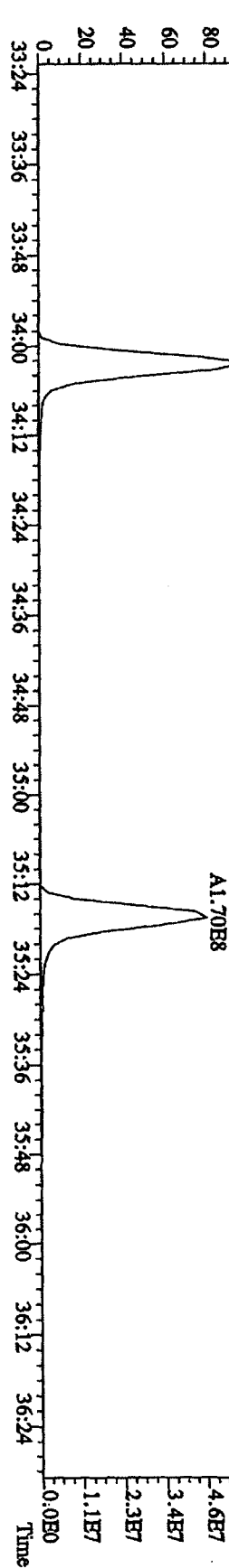
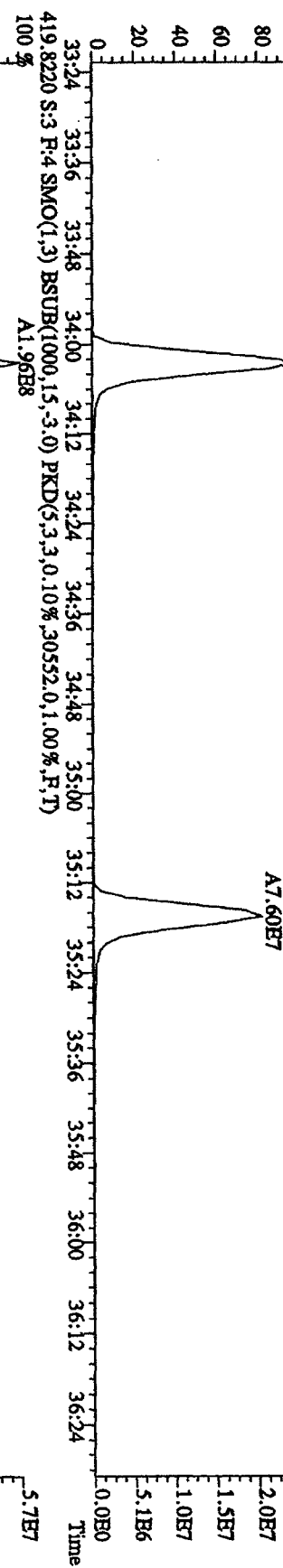
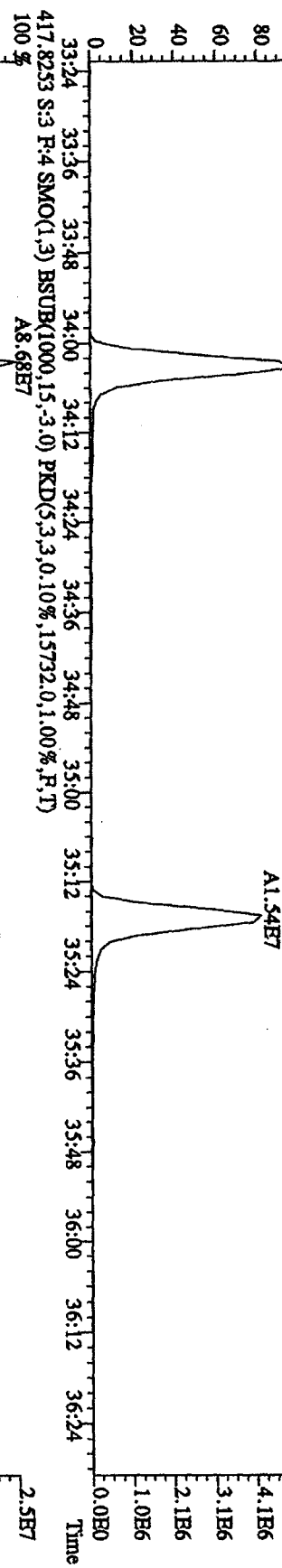
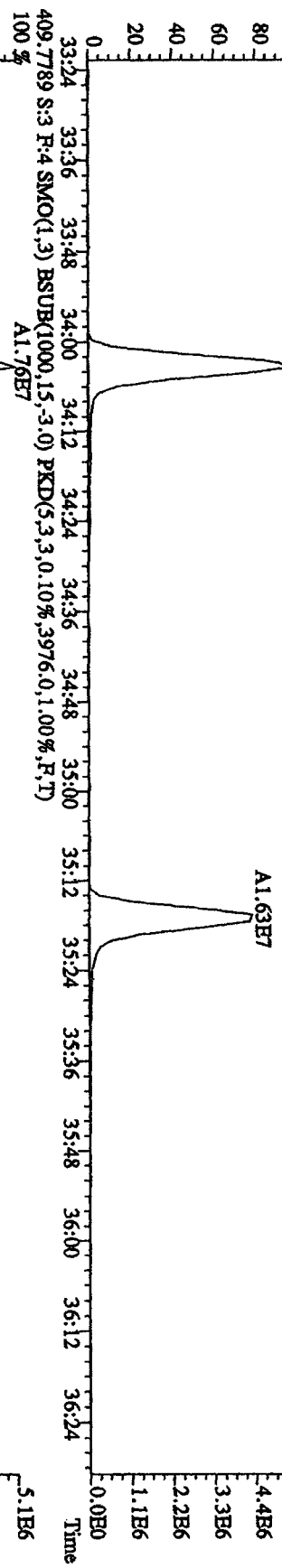
File: 27IL101D5 #1-406 Acq: 27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINRES  
 373.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5084.0,1.00%,F,T)



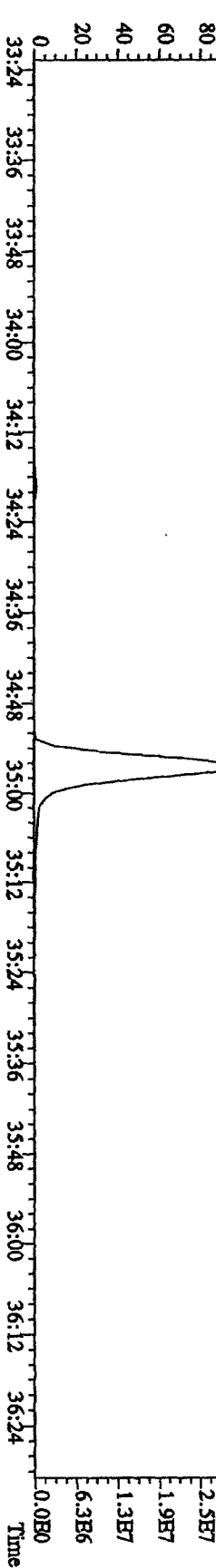
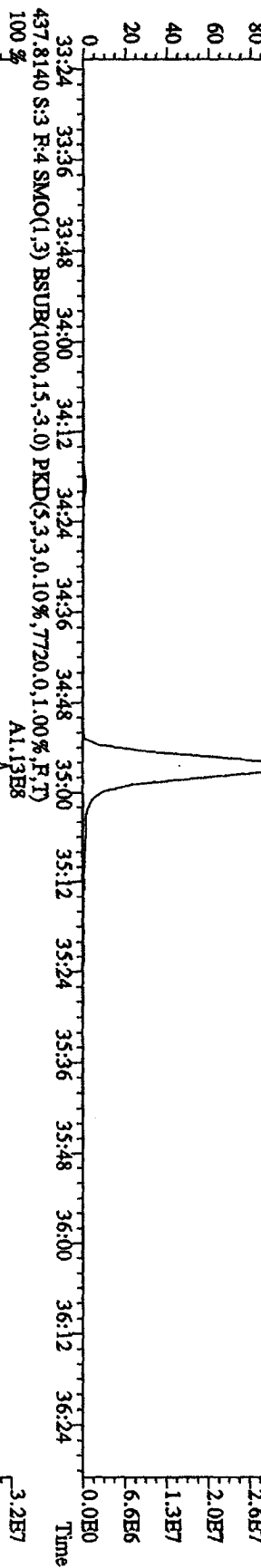
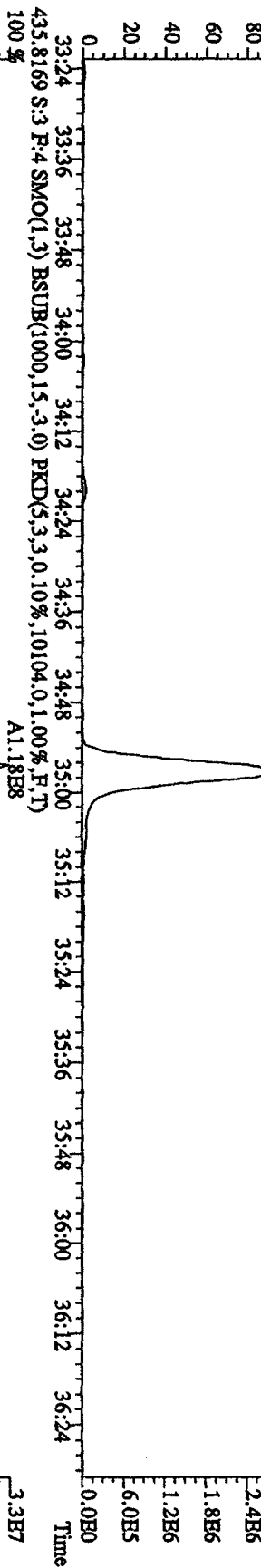
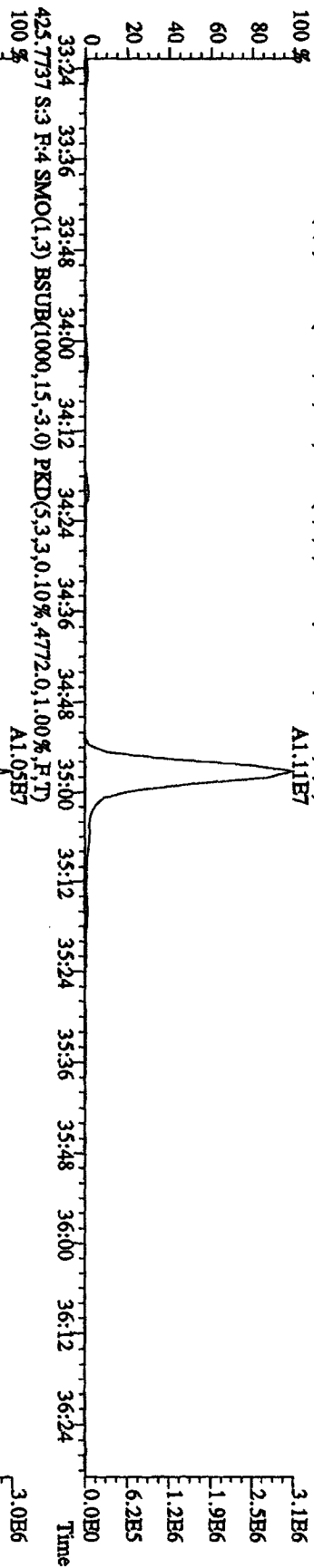
File:271L101D5 #1-406 Acq:27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SB  
 Sample#3 Text:ST0727A :CS2 10DXN335 Exp:DIOXINES  
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3392.0,1.00%,F,T)  
 100 %



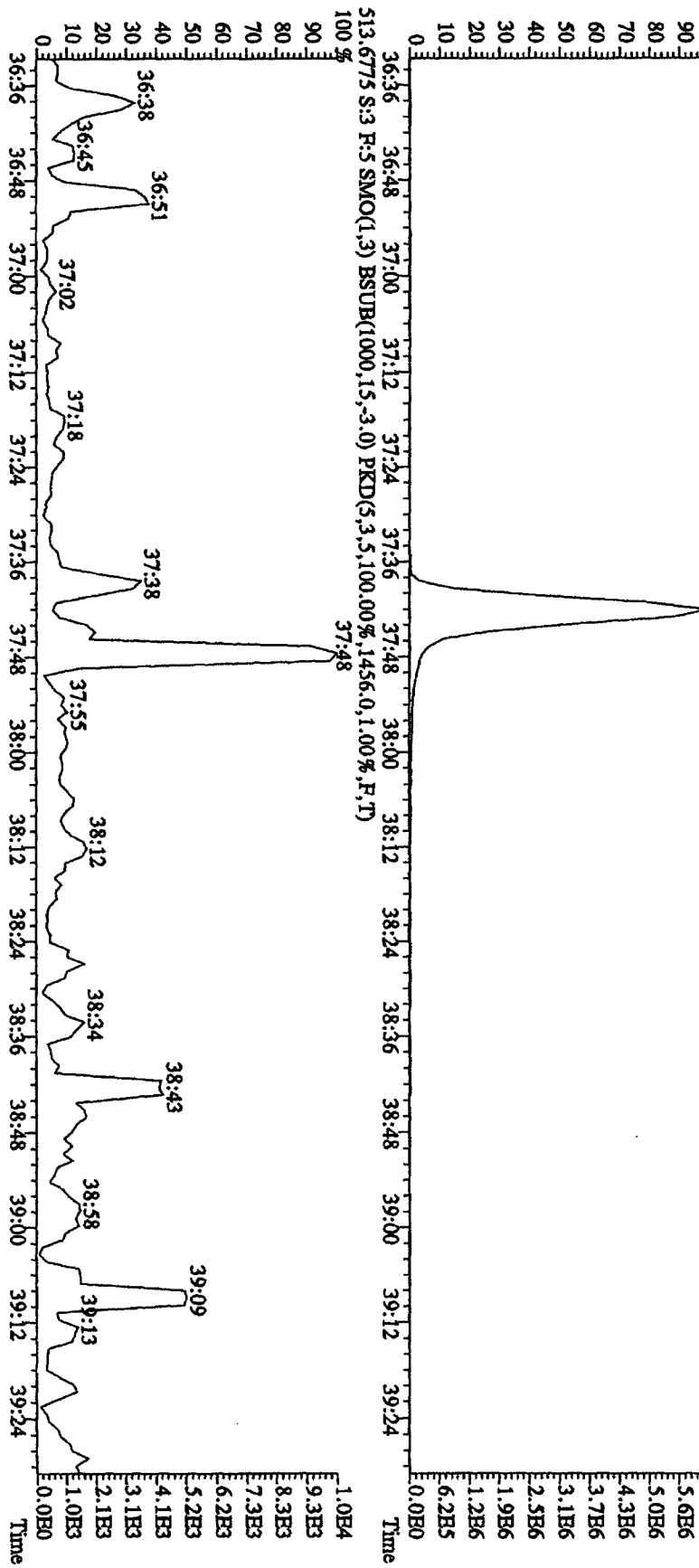
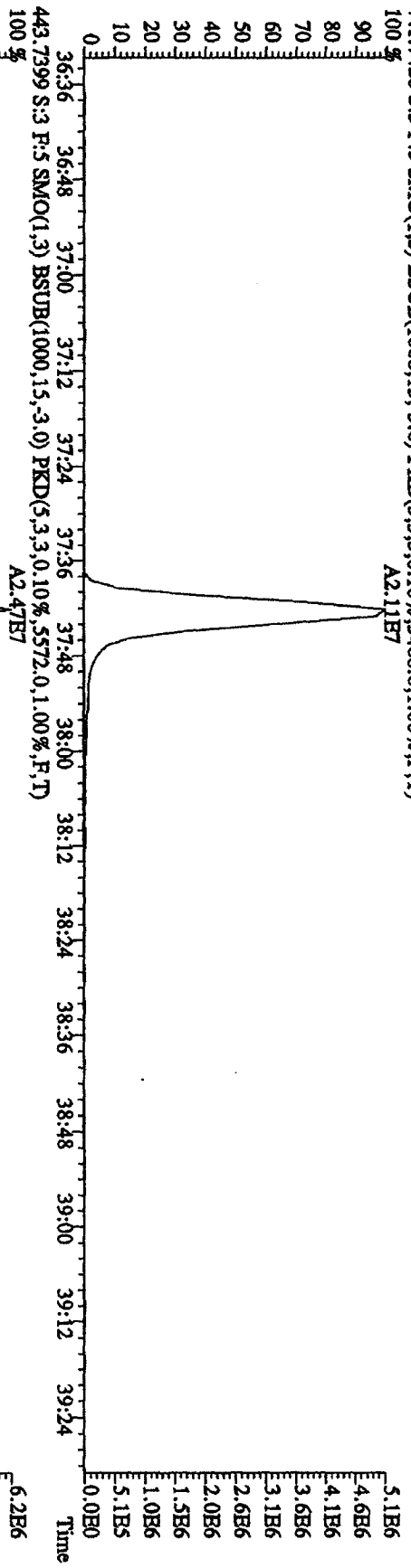
File: 27IL101D5 #1-214 Acq: 27-JUL-2010 09:25:53 GC EI+ Voltage SIR 70SE  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINRES  
 407.7818 S:3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,6696.0,1.00%,F,T)  
 100%



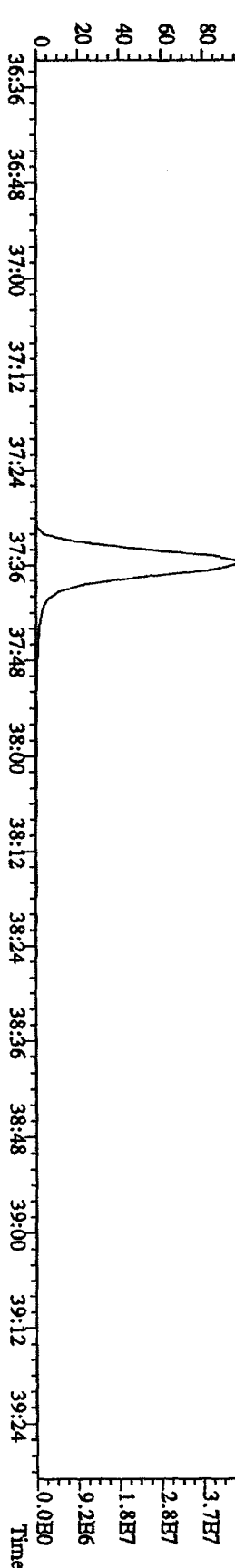
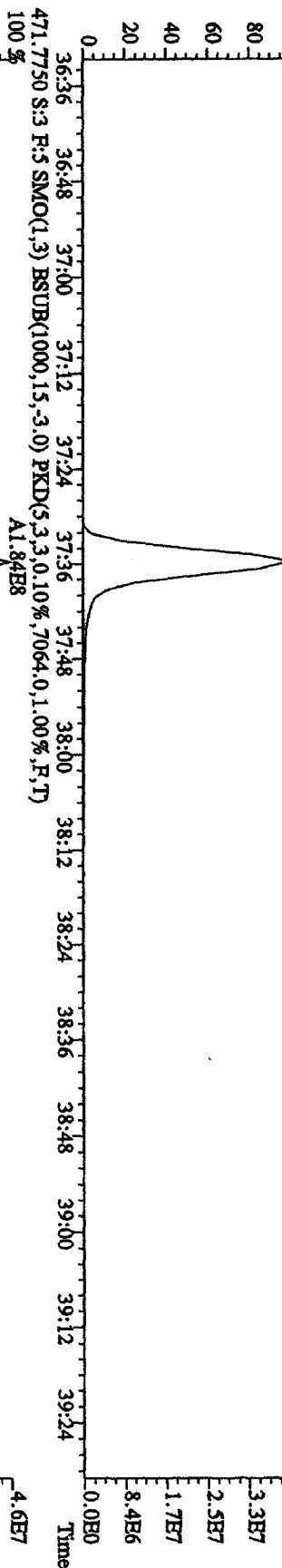
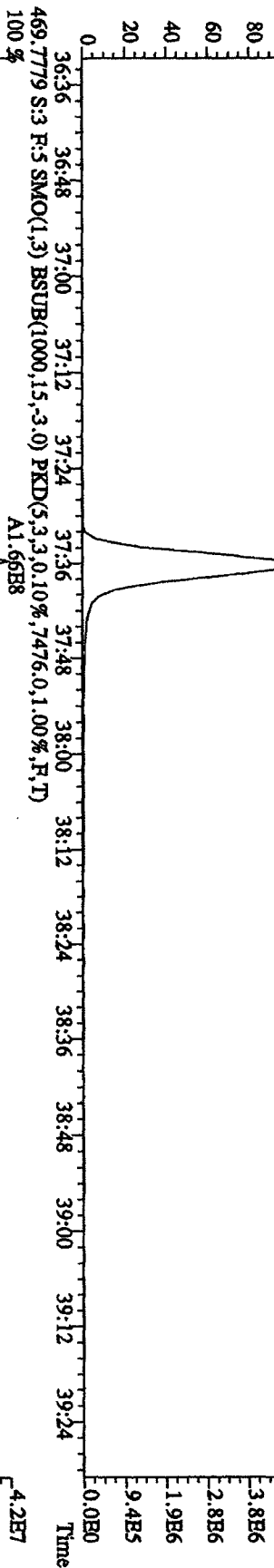
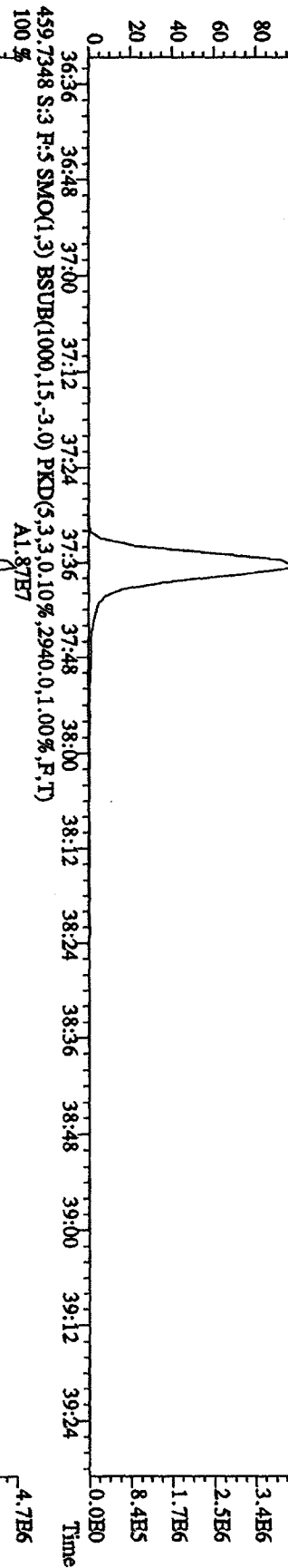
File: 271L101D5 #1-214 Acq: 27-JUL-2010 09:25:53 GC HI+ Voltage SIR 70SB  
 Sample#3 Text: ST0727A :CS2 10DXN35 Exp: DIOXINRES  
 423.7737 S:3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3912.0,1.00%,F,T) A1.11E7



File: 27JL101D5 #1-196 Acq: 27-JUL-2010 09:25:53 GC: EI + Voltage: SIR 70SE  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINRES  
 441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3468,0,1,00%,F,T)



File: 27JUL101D5 #1-196 Acq: 27-JUL-2010 09:25:53 GC EI + Voltage SIR 70SE  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINRES  
 457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2172.0,1,00%,F,T)  
 100%

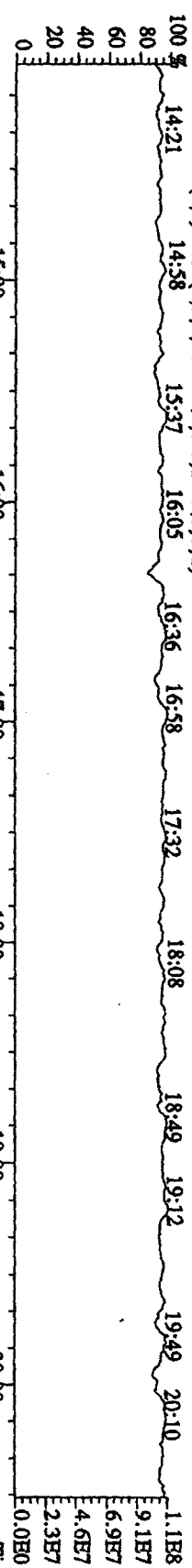




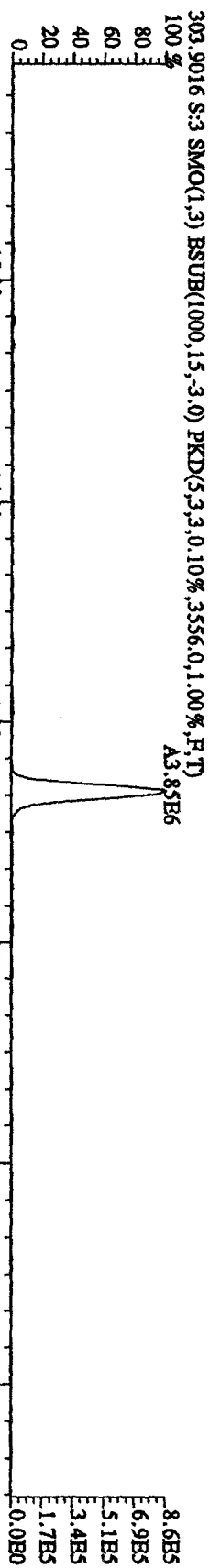
File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 09:25:53 GC HI + Voltage SIR 70SH

Sample#3 Text: ST0727A : CS2 10DXN335 Exp: DIOXINRES

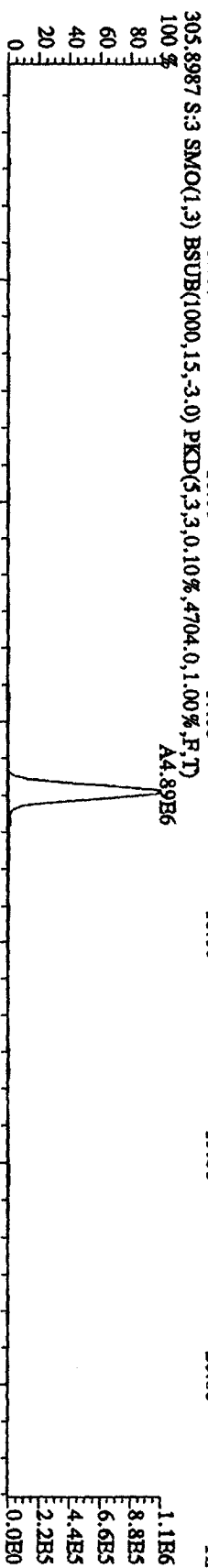
292.9825 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



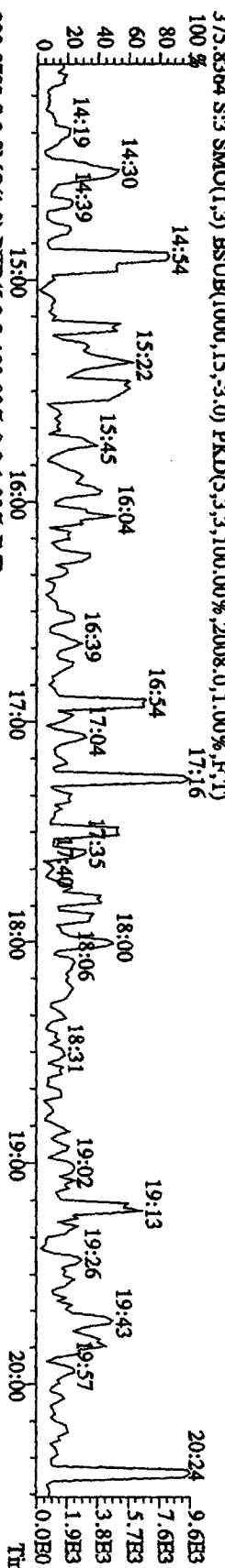
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3556,0.1,0.0%,F,T)



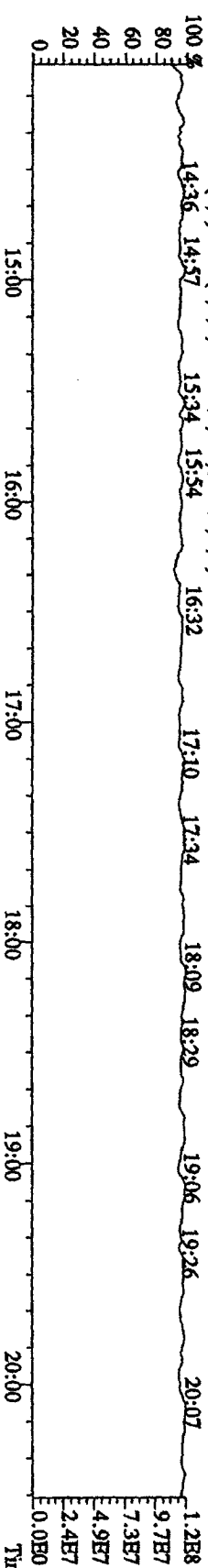
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4704,0.1,0.0%,F,T)



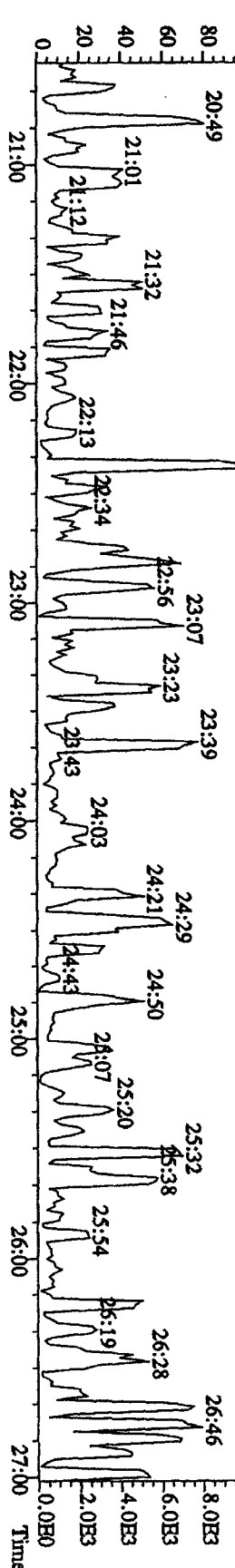
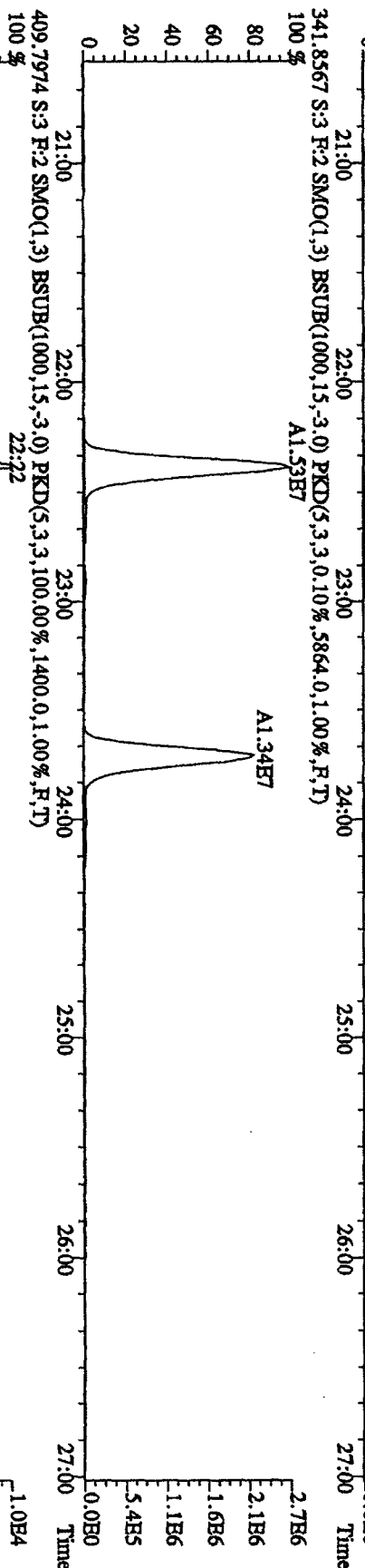
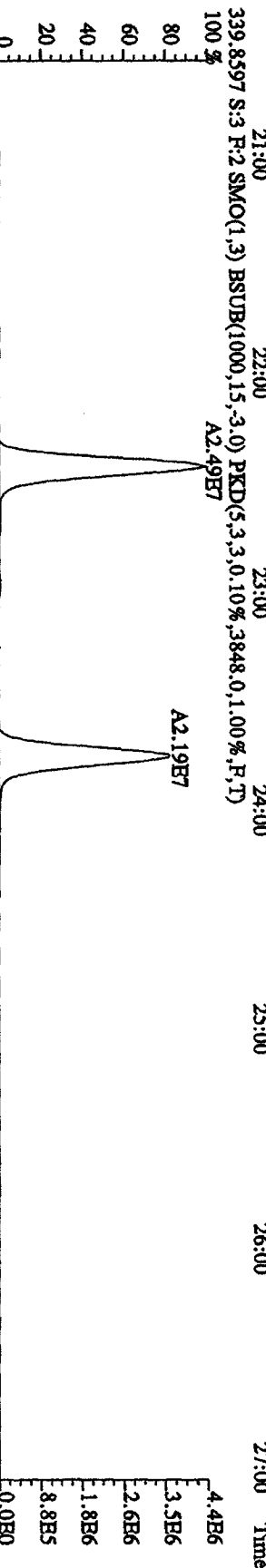
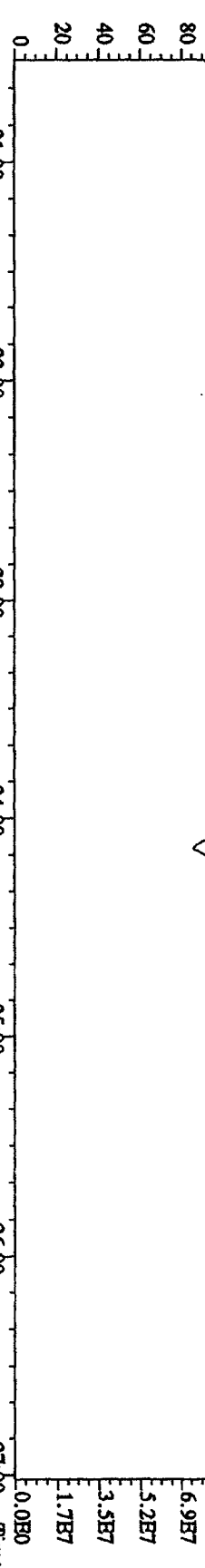
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2008,0.1,0.0%,F,T)



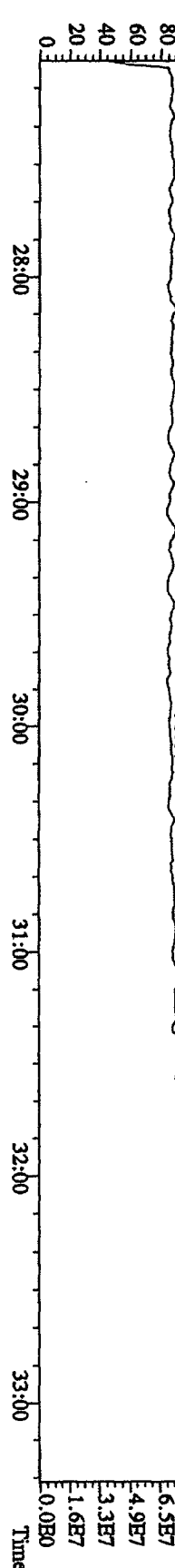
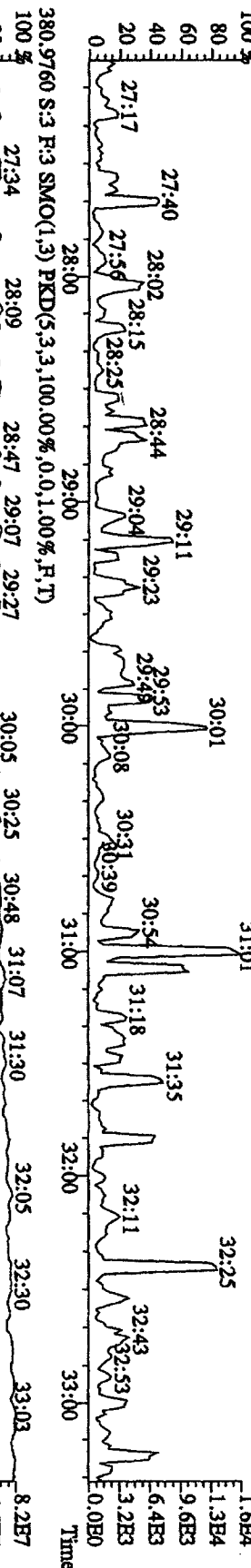
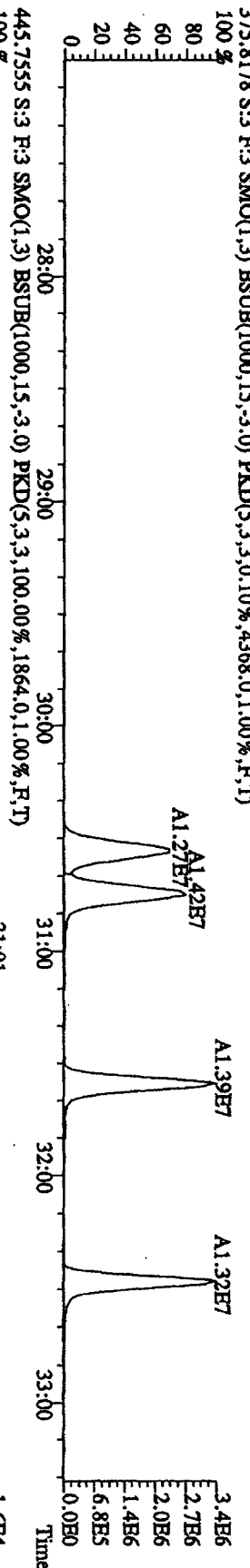
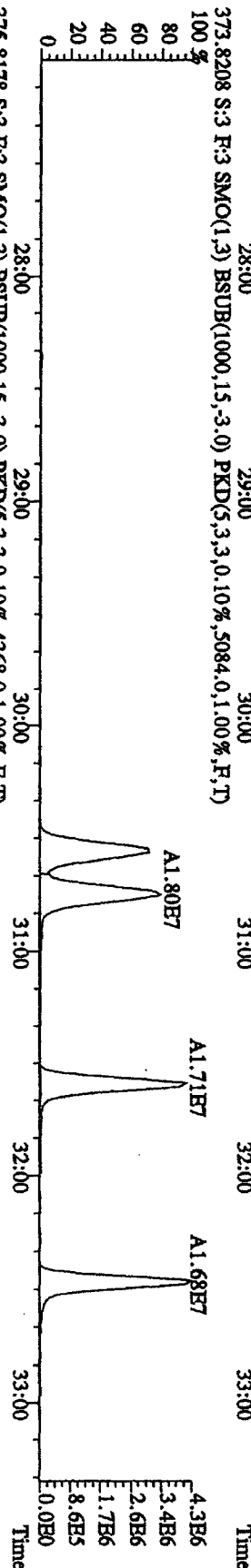
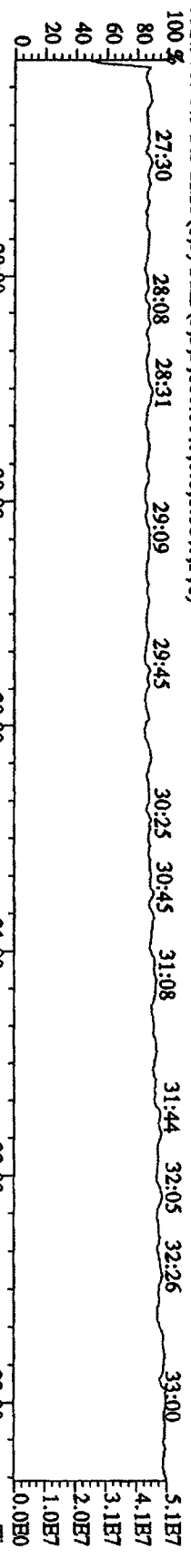
330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 27JUL101D5 #1-404 Acq: 27-JUL-2010 09:25:53 GC BI + Voltage SIR 70SB  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINRES  
 342,9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100 % 20:42 21:03 21:24 21:45 22:21 23:02 23:22 23:44 24:36 25:00 25:23 25:58 26:33

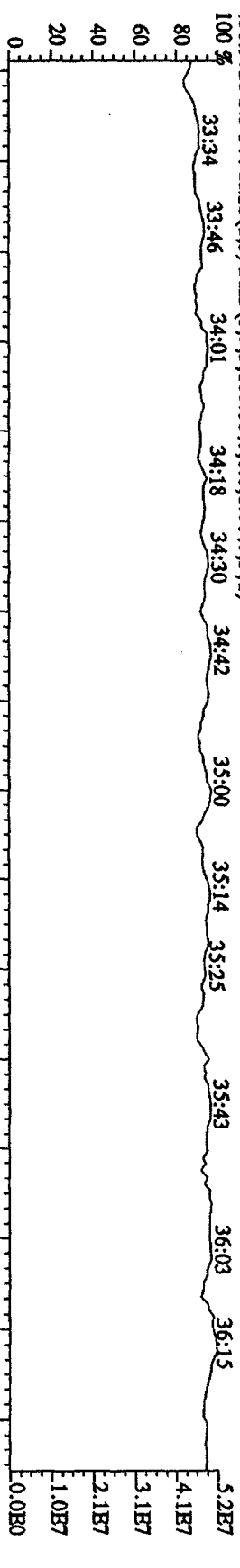


File: 27JUL101D5 #1-406 Acq: 27-JUL-2010 09:25:53 GC HI + Voltage SIR 70SE  
 Sample#3 Text: ST0727A : CS2 10DXN335 Exp: DIOXINRES

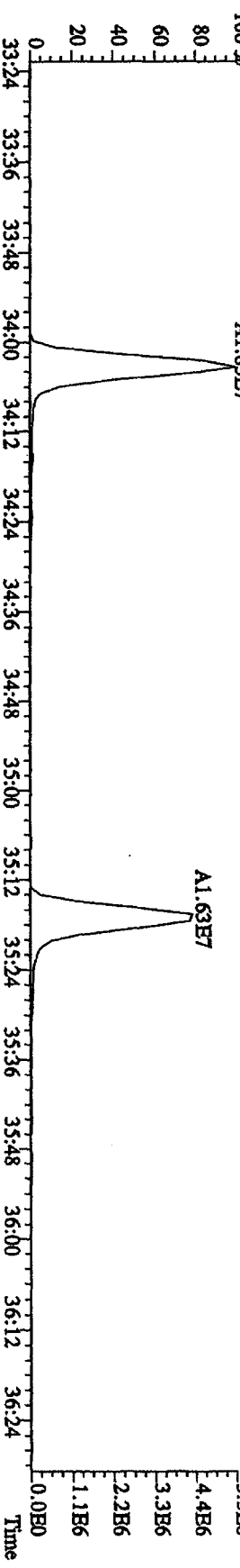


File: 27JL101D5 #1-214 Acq: 27-JUL-2010 09:25:53 GC HI+ Voltage SIR 70SB  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINRES

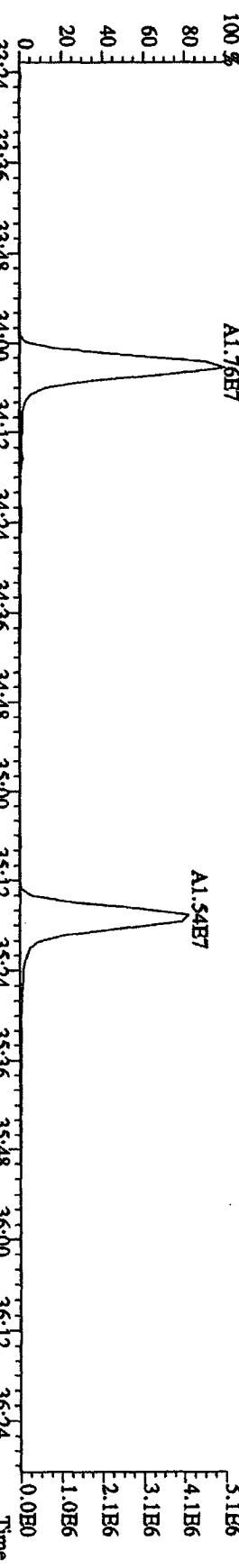
430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



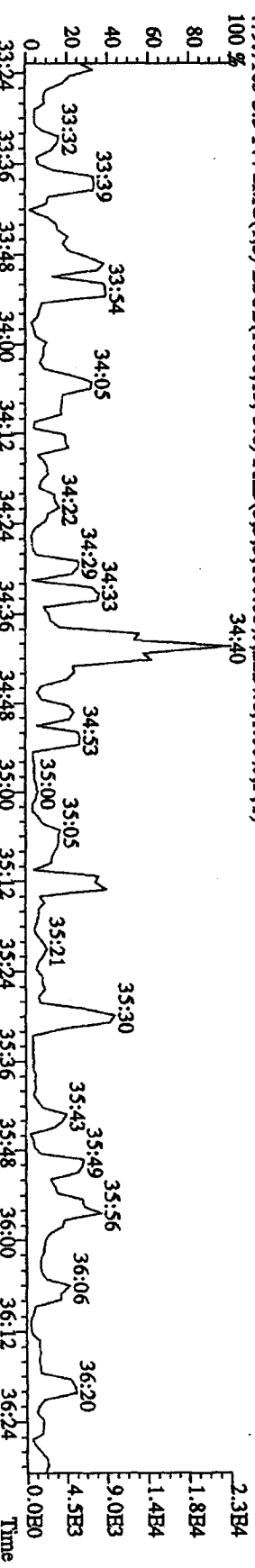
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6696,0.1,0.00%,F,T)



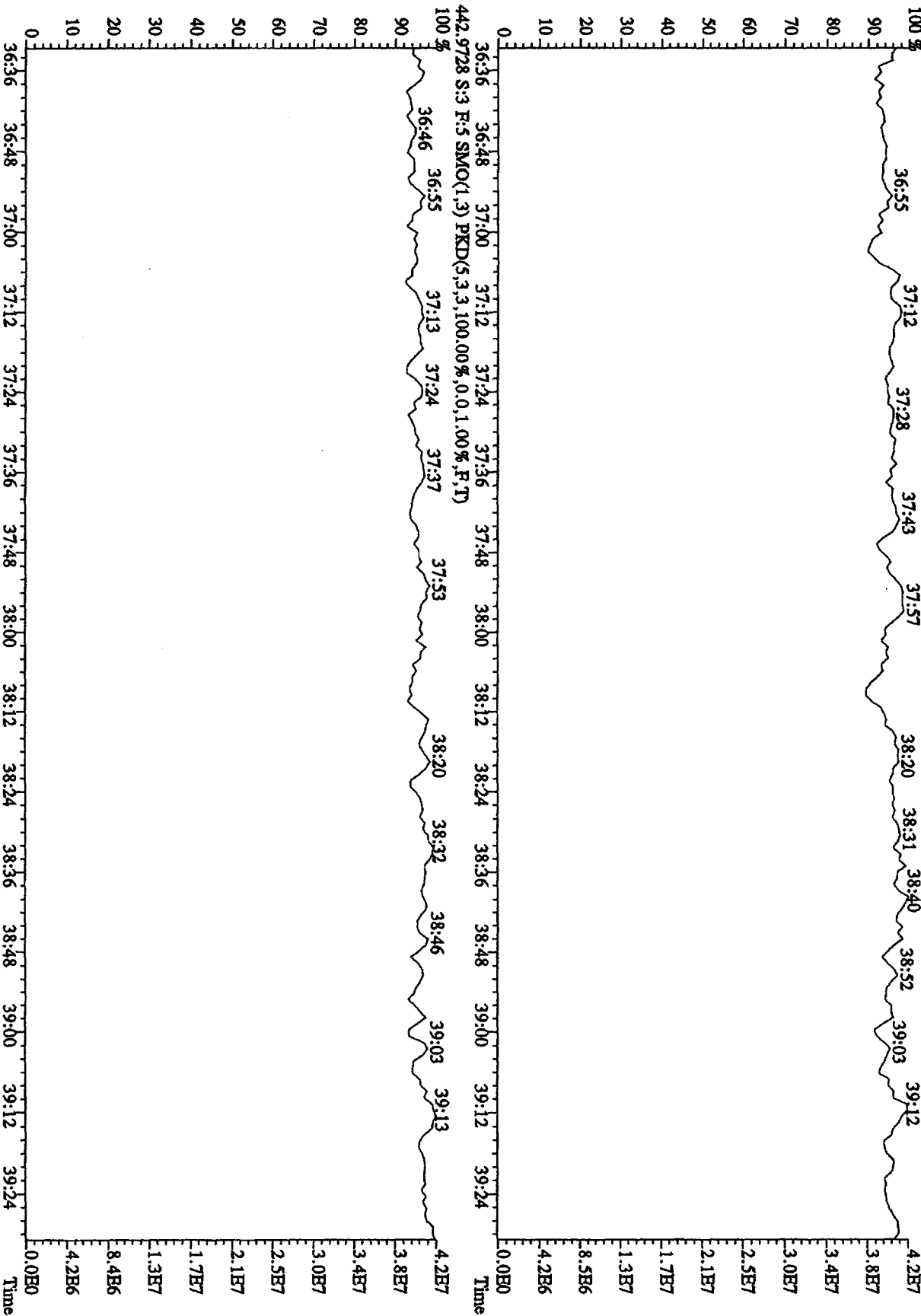
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3976,0.1,0.00%,F,T)



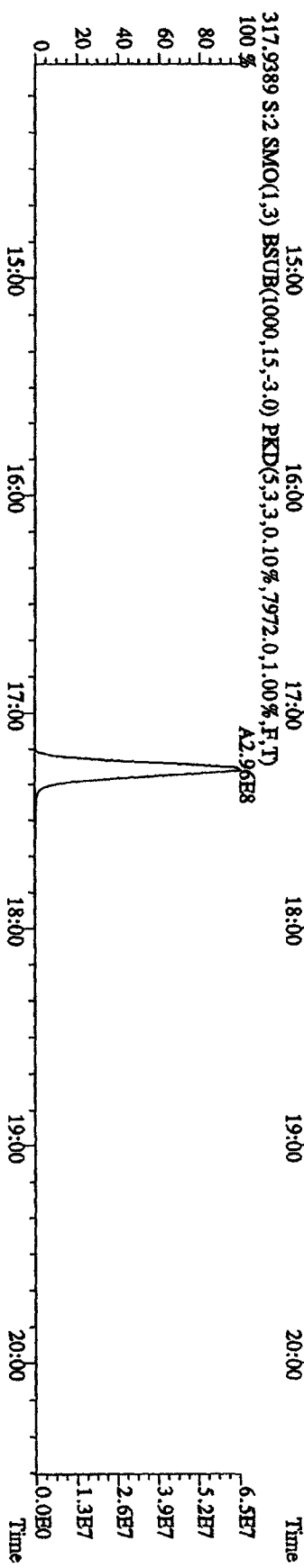
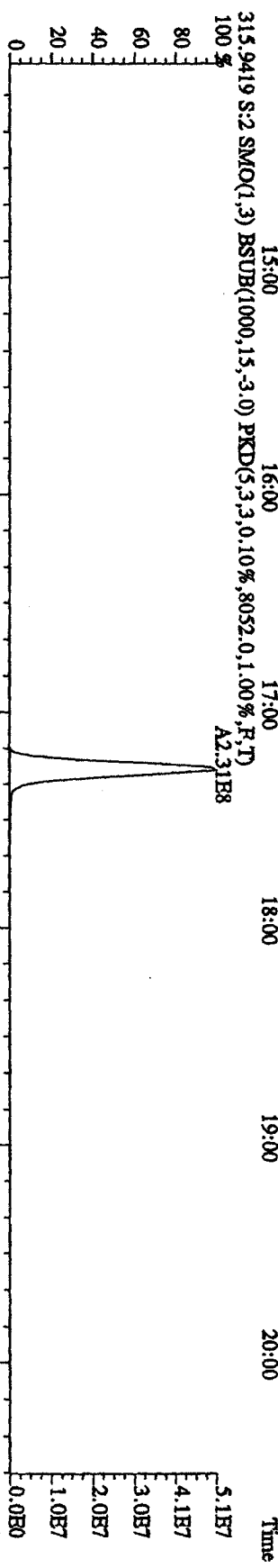
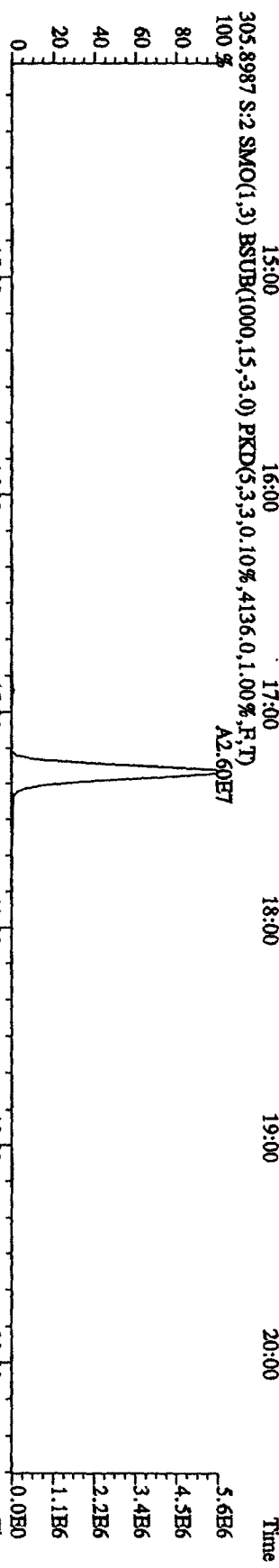
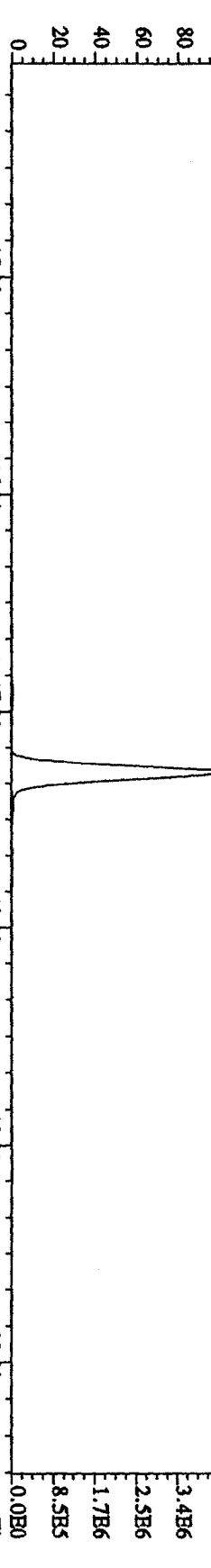
479.7165 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2224,0.1,0.00%,F,T)



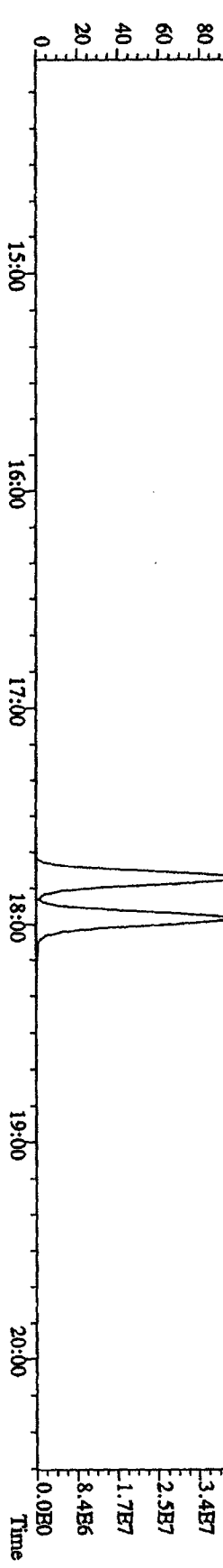
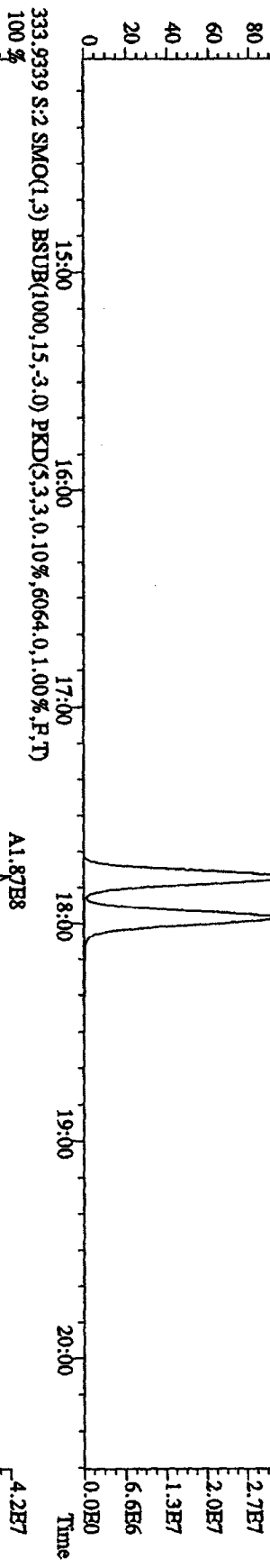
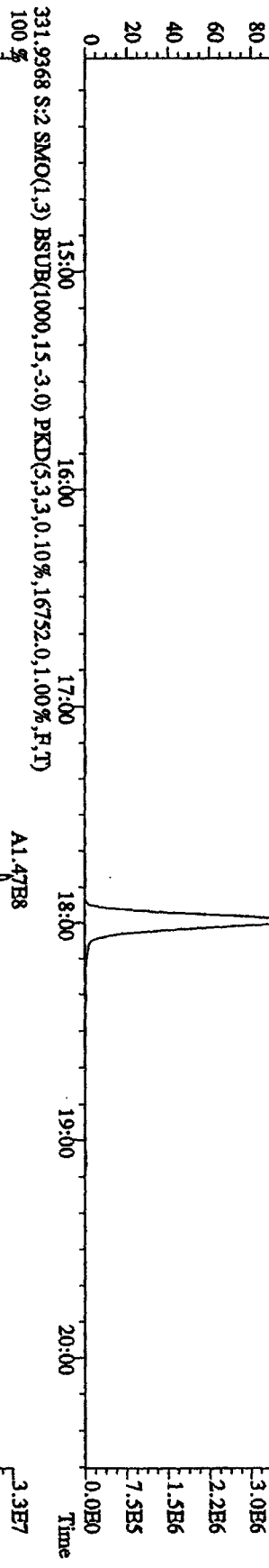
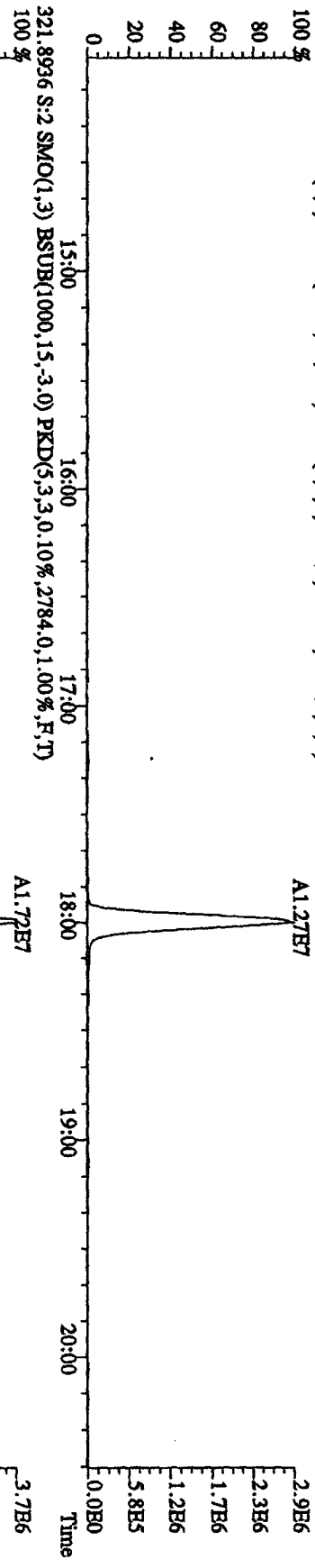
File: 271L101D5 #1-196 Acq: 27-JUL-2010 09:25:53 GC EI + Voltage SIR 70SB  
 Sample#3 Text: ST0727A :CS2 10DXN335 Exp: DIOXINRES  
 454.9728 S:3 F:5 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



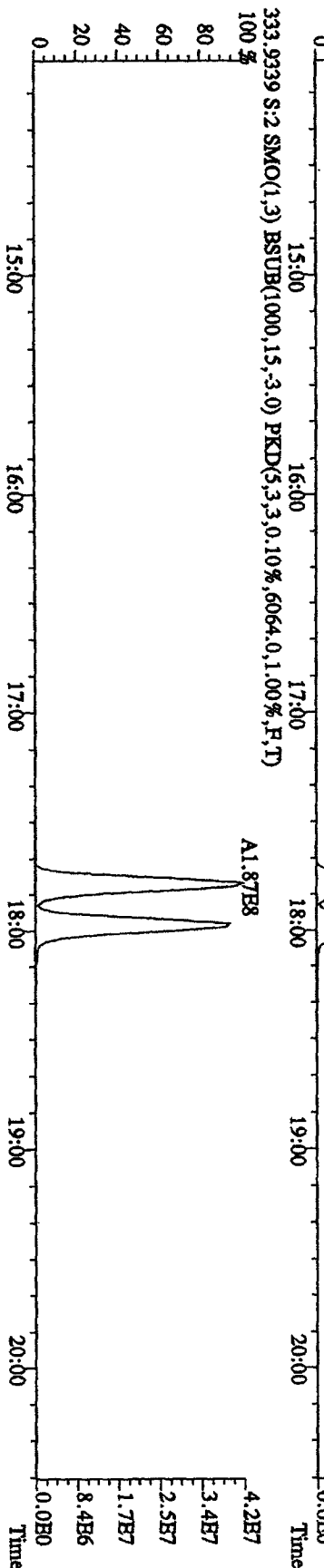
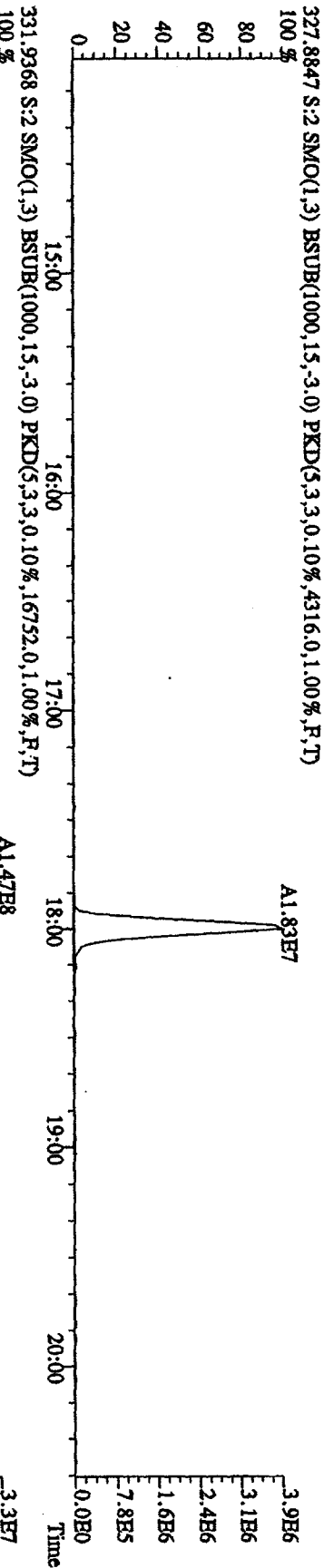
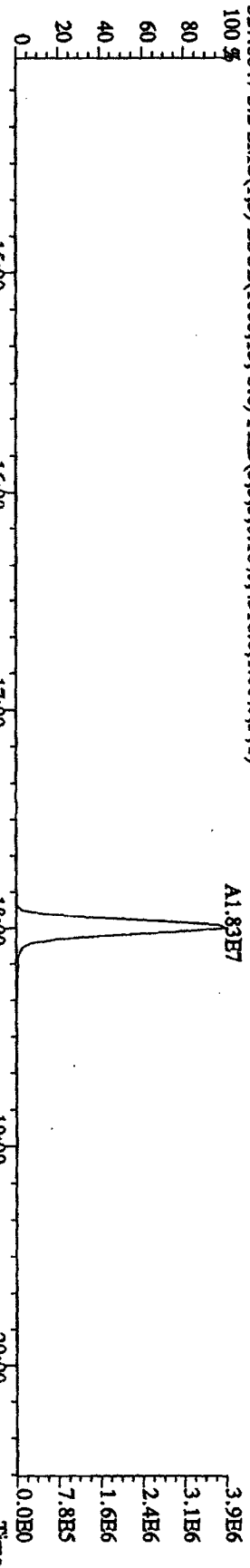
File: 27JL101D5 #1-382 Acq: 27-JUL-2010 08:41:56 GC HI+ Voltage SIR 70SE  
 Sample#2 Text: ST0727 :CS3 10DXN336 Exp: DIOXINRES  
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3212,0,1,00%,F,T)  
 100%



File: 27JL101D5 #1-382 Acq: 27-JUL-2010 08:41:56 GC HI+ Voltage SIR 70SB  
 Sample#2 Text: ST0727 : CS3 10DXN336 Exp: DIOXINRES  
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3868,0.1,0.0%,F,T)



File:271L101D5 #1-382 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SFR 70SE  
 Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRBS  
 327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4316.0,1.00%,F,T)

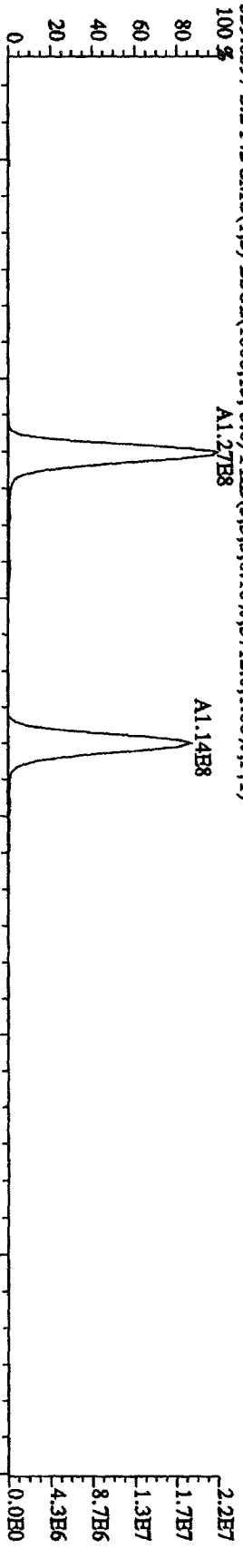




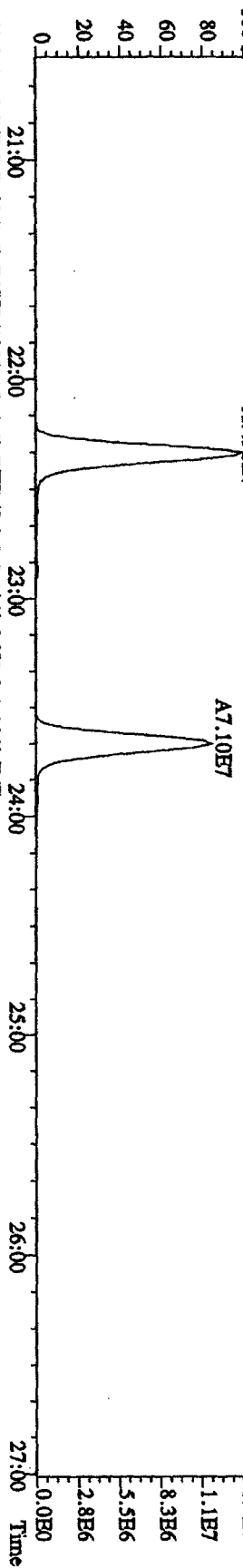
File:27JUL10ID5 #1-404 Acq:27-JUL-2010 08:41:56 GC HF+ Voltage SIR 70SE

Sample#2 Text:ST0727 :CS3 10DKN336 Exp:DIOXINES

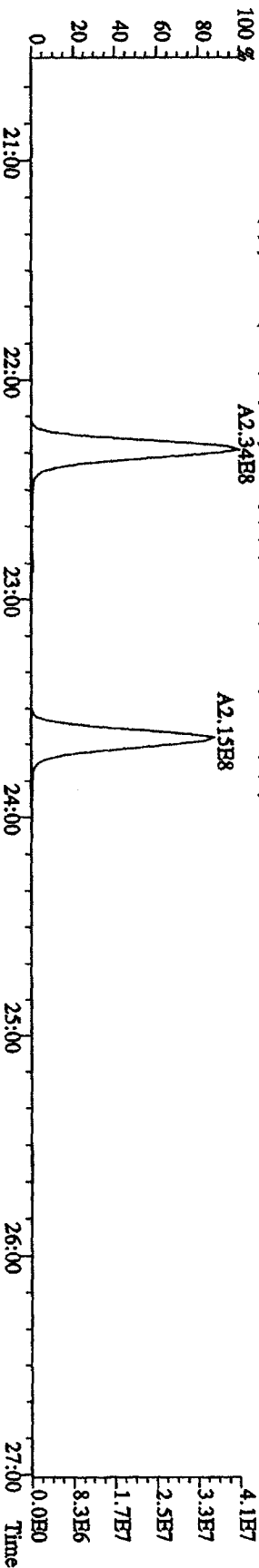
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5712.0,1.00%,F,T)



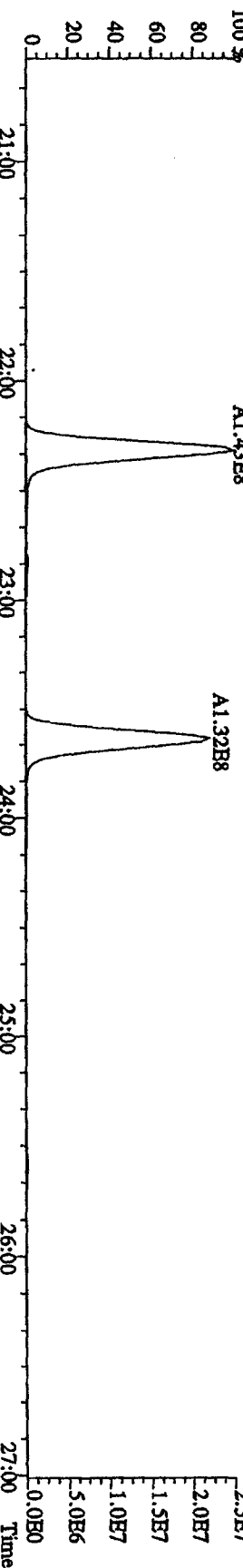
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8056.0,1.00%,F,T)



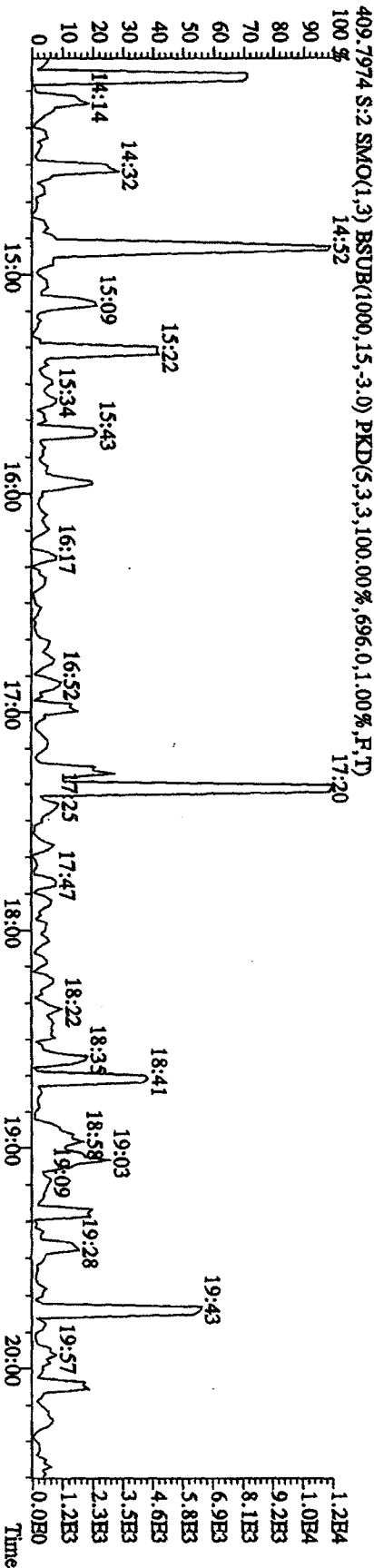
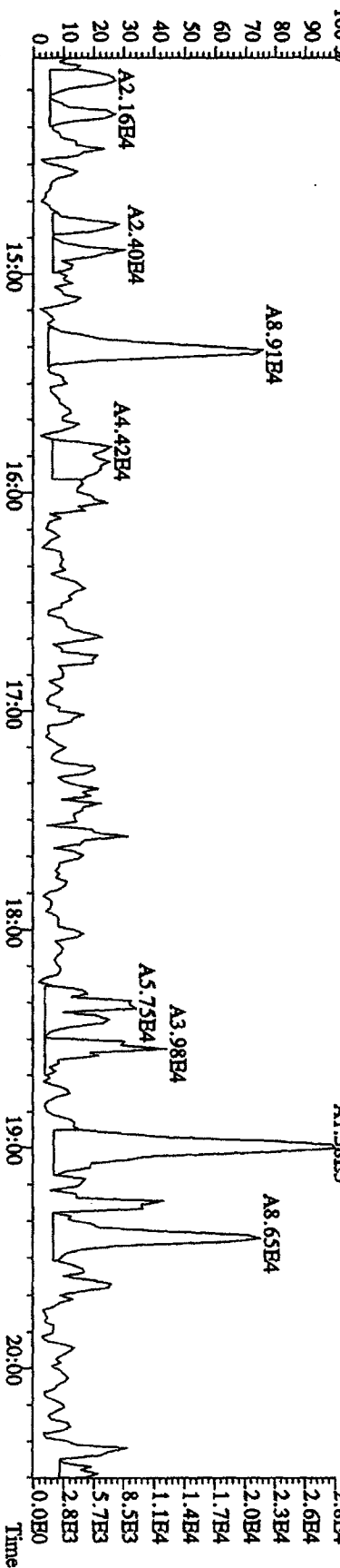
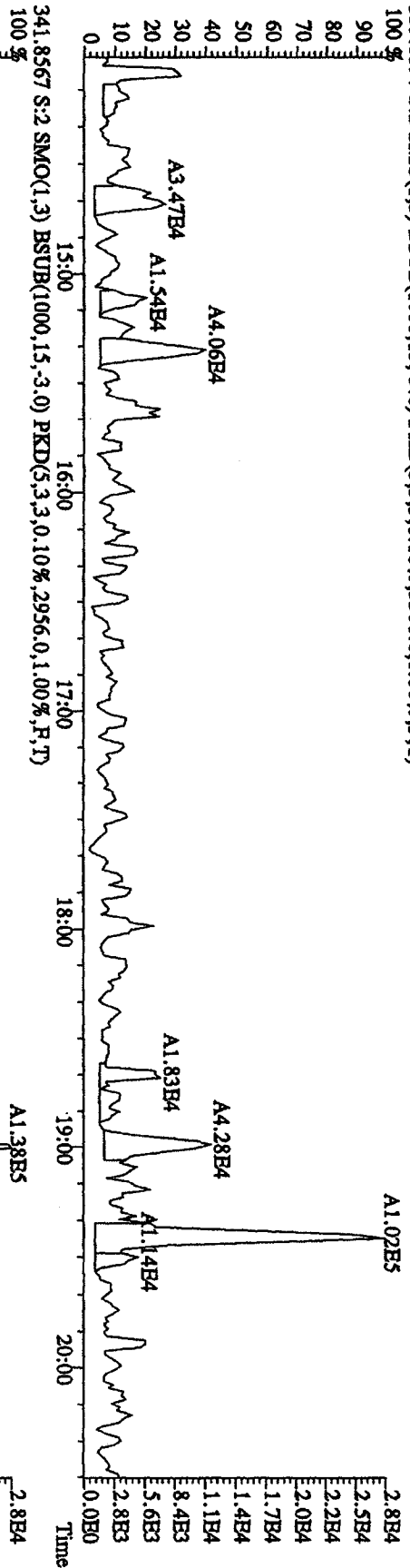
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9652.0,1.00%,F,T)



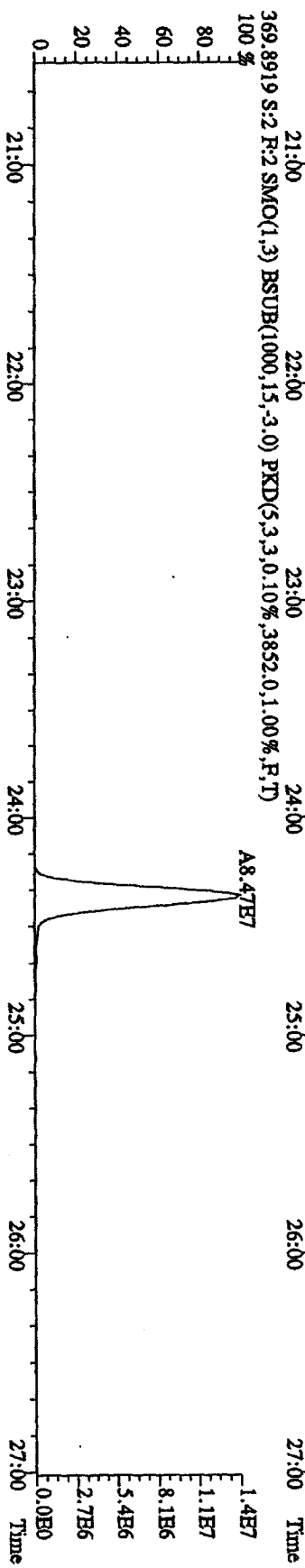
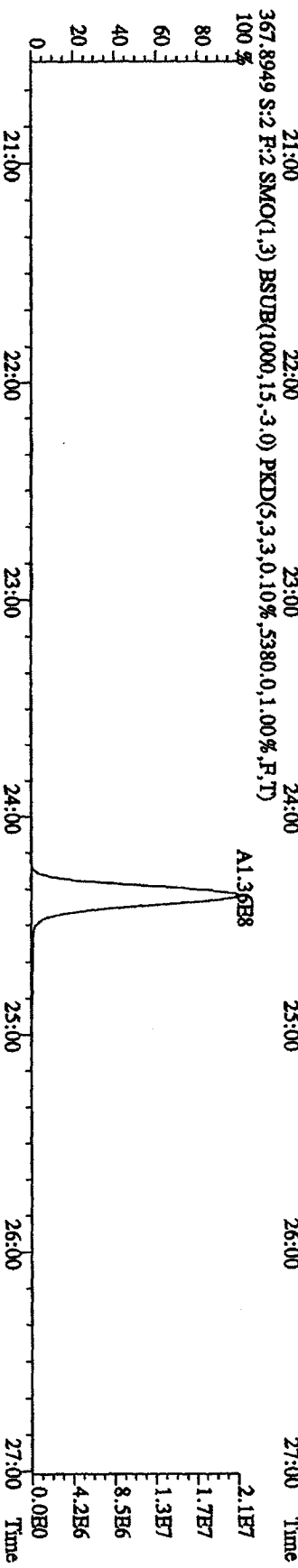
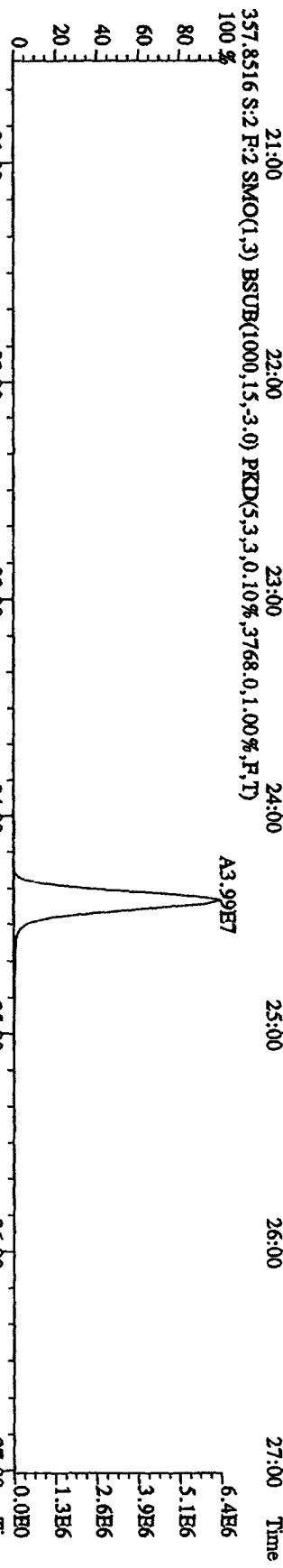
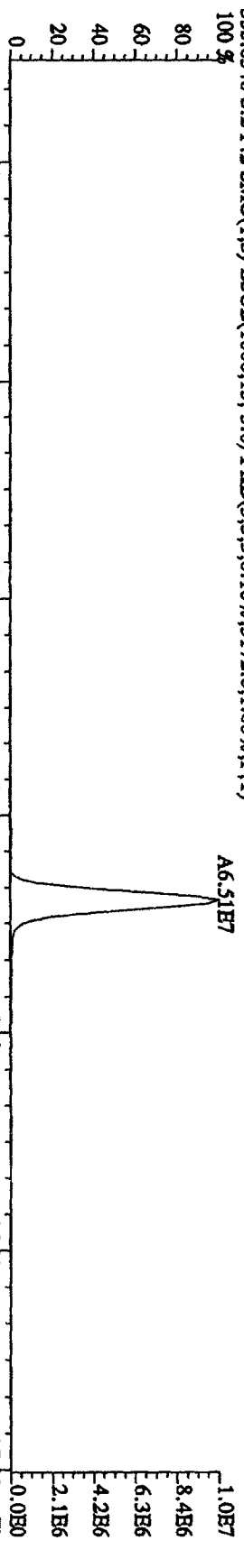
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9068.0,1.00%,F,T)



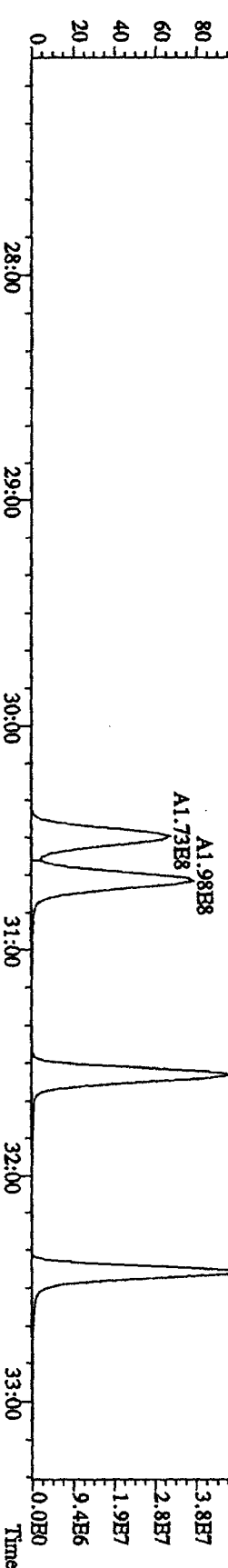
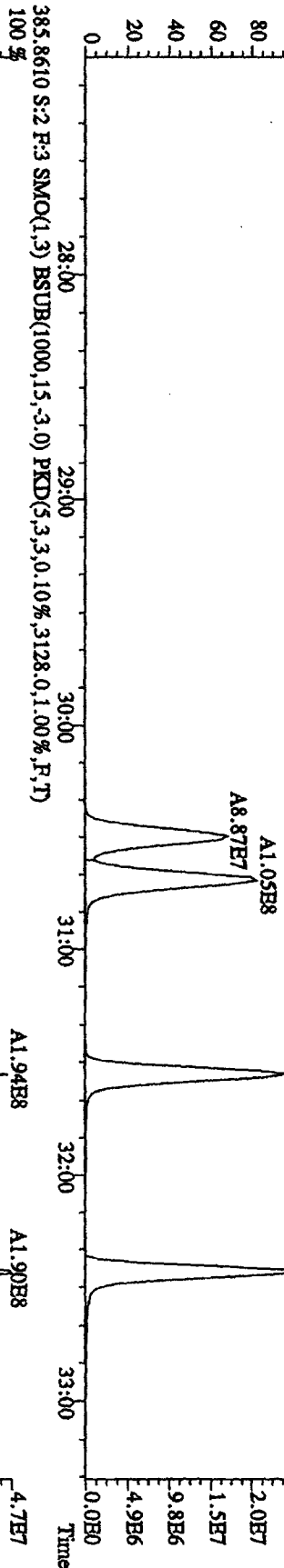
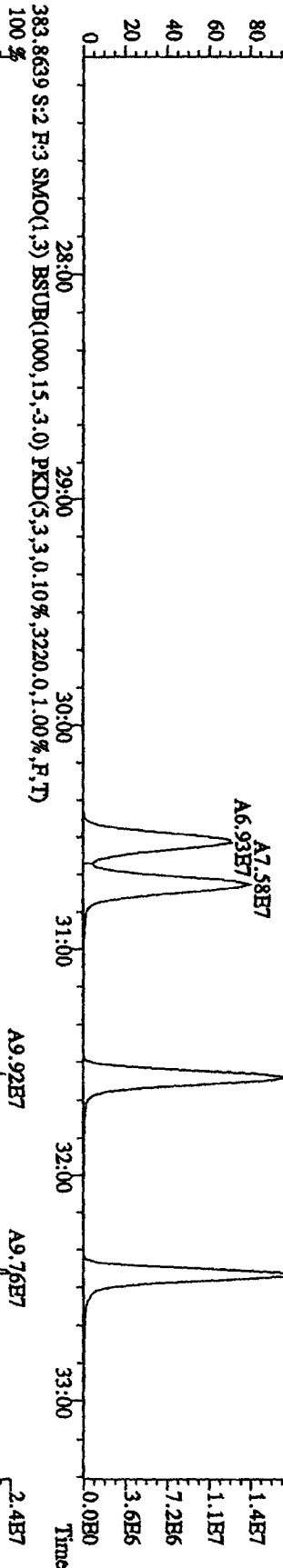
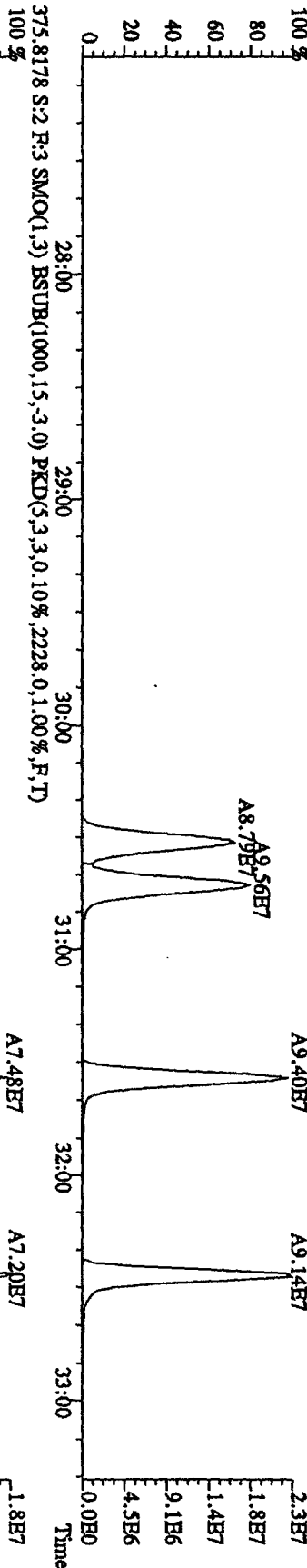
File:27IL101D5 #1-382 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE  
 Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES  
 339.8597 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0.10%,3300,0.1,0.00%,F,T)



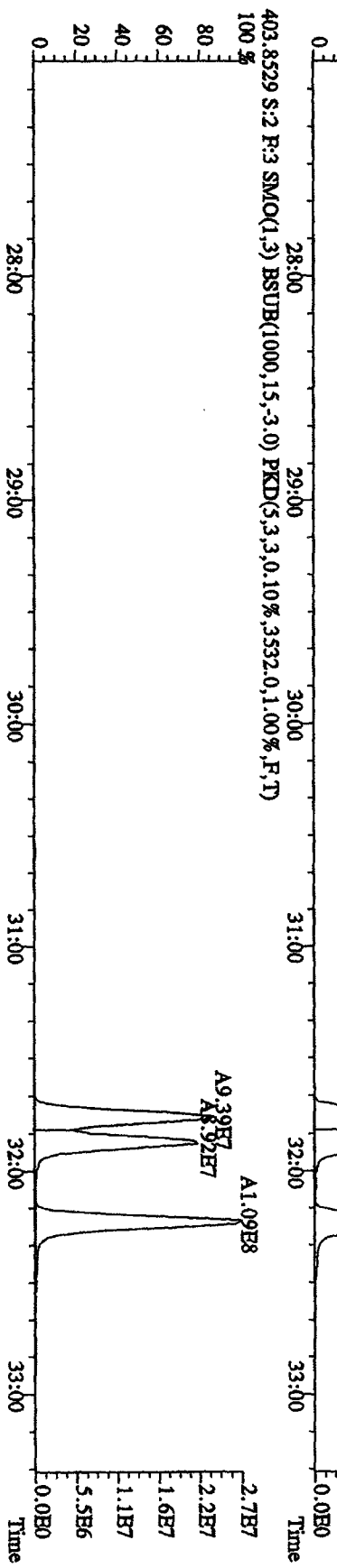
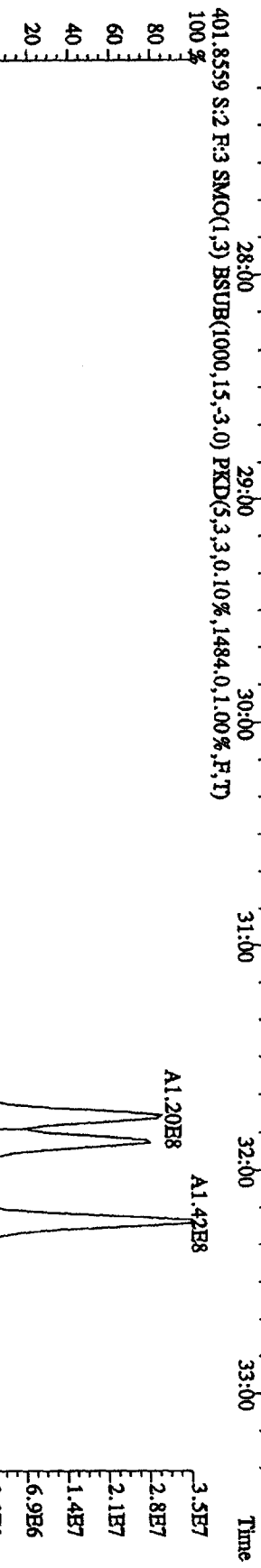
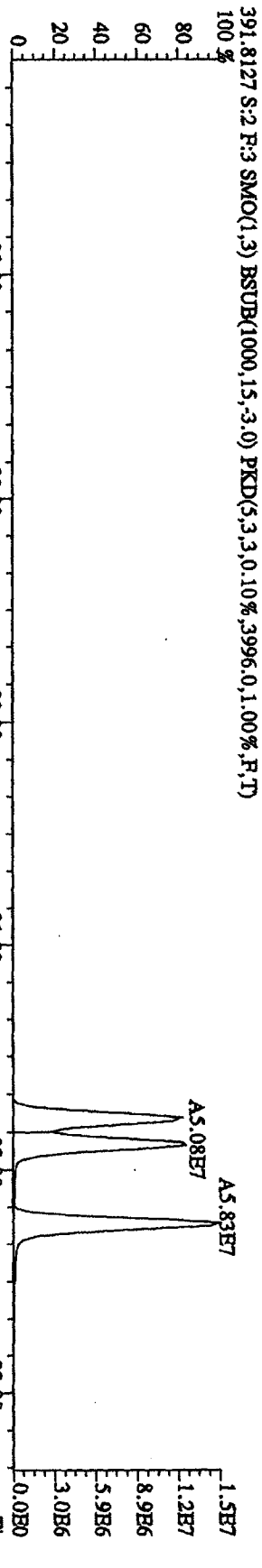
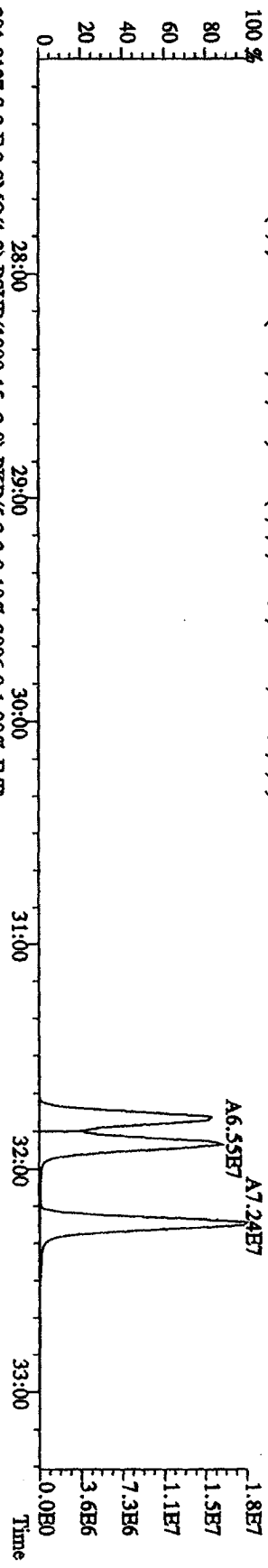
File: 27JUL101D5 #1-404 Acq: 27-JUL-2010 08:41:56 GC EI+ Voltage: SIR 70SB  
 Sample#2 Text: ST0727 :CS3 10DXN336 Exp: DIOXINRES  
 355.8546 S:2 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5172.0,1.00%,F,T)



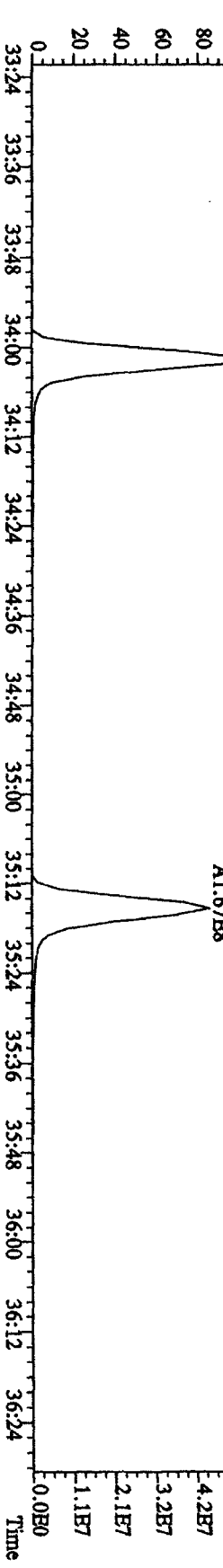
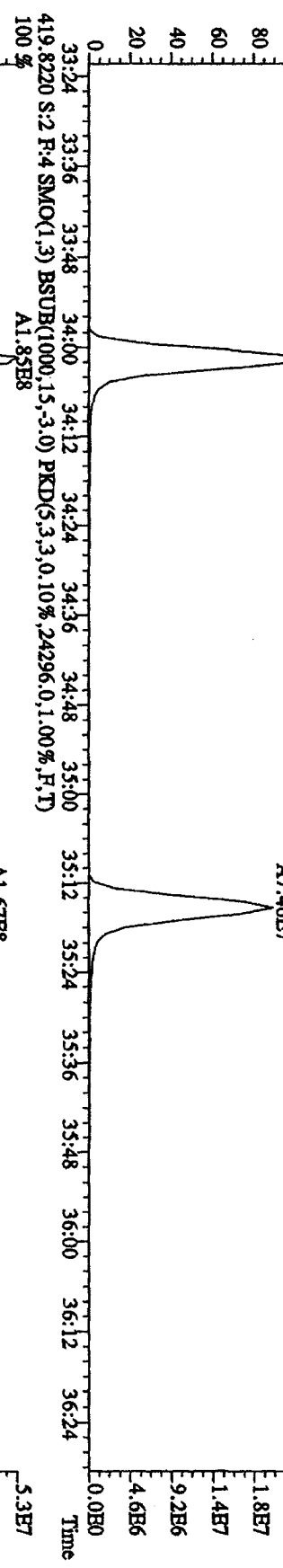
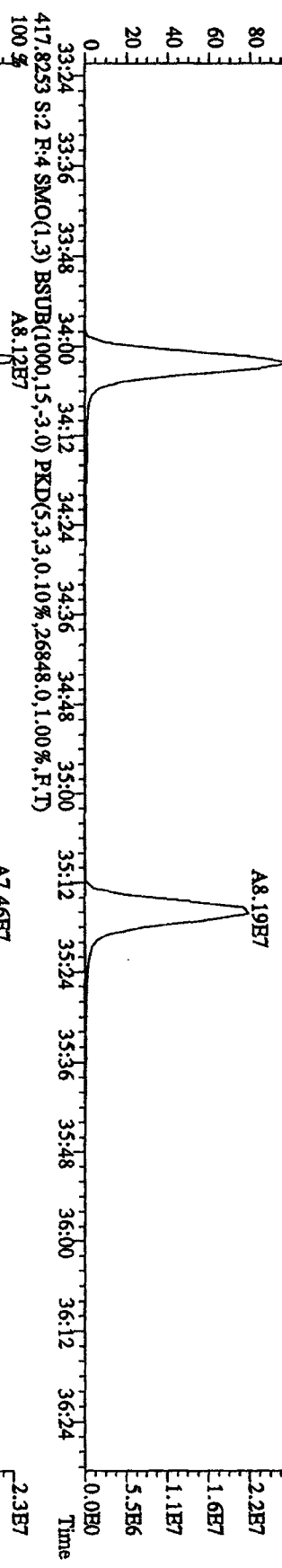
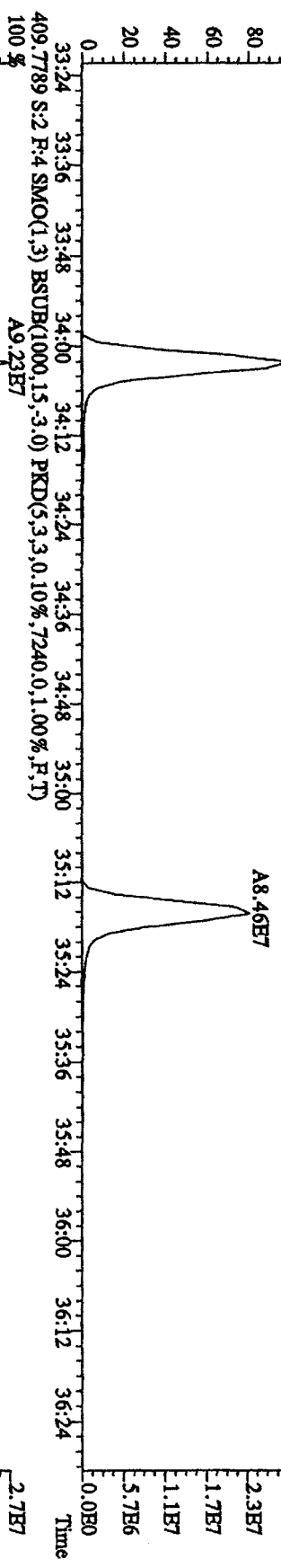
File: 271L101D5 #1-406 Acq: 27-JUL-2010 08:41:56 GC EI+ Voltage: SIR 70SB  
 Sample#2 Text: ST0727 :CS3 10DXN336 Exp: DIOXINRES  
 373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2912.0,1.00%,F,T)



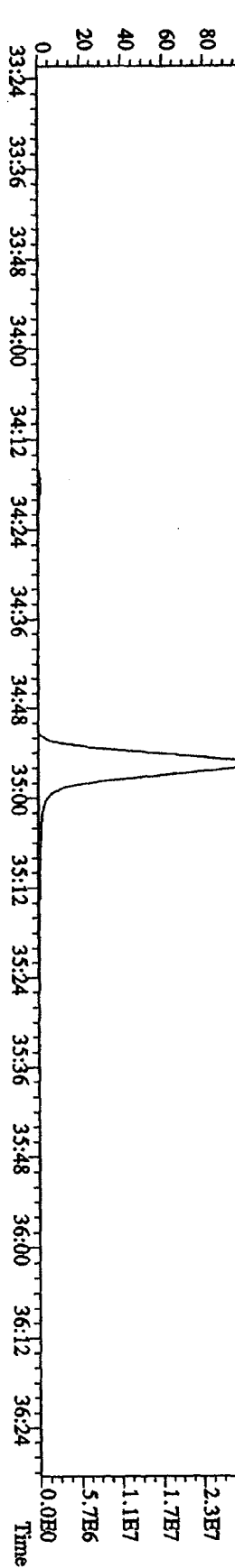
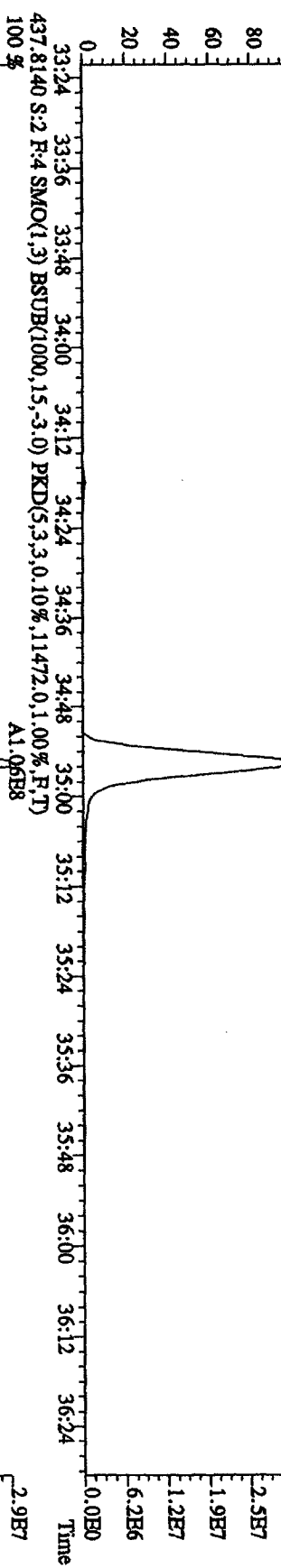
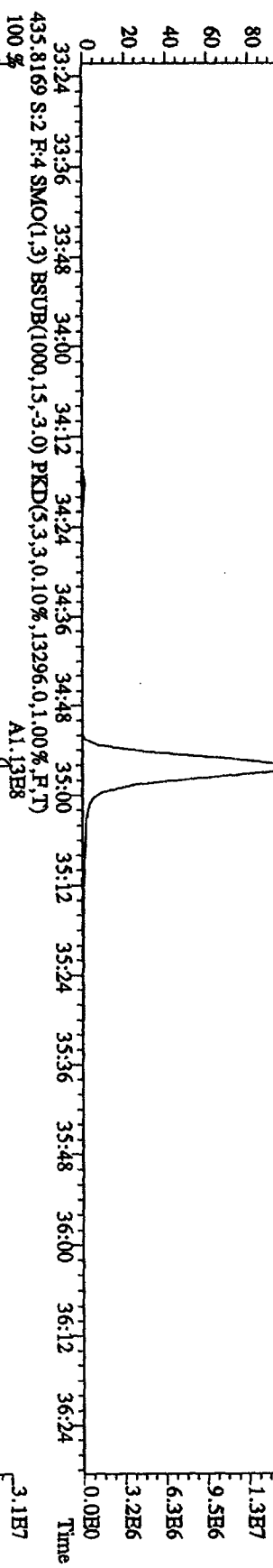
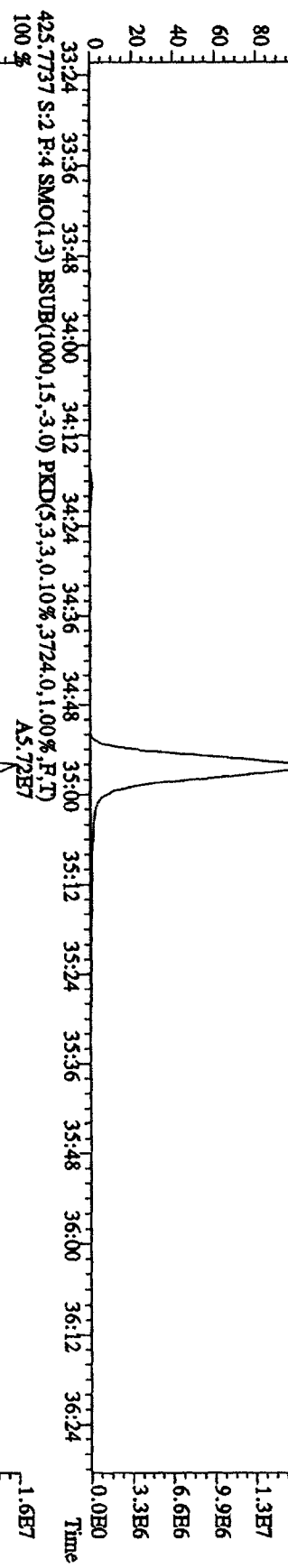
File: 271L101D5 #1-406 Acq: 27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SB  
 Sample#2 Text: ST0727 :CSS 10DXN336 Exp: DIOXINRES  
 389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2408,0.1,00%,F,T)



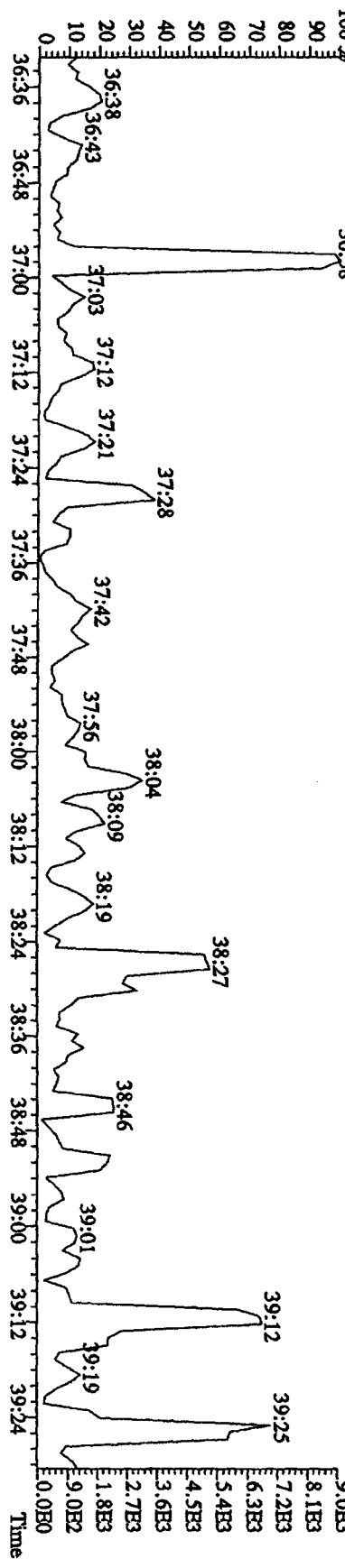
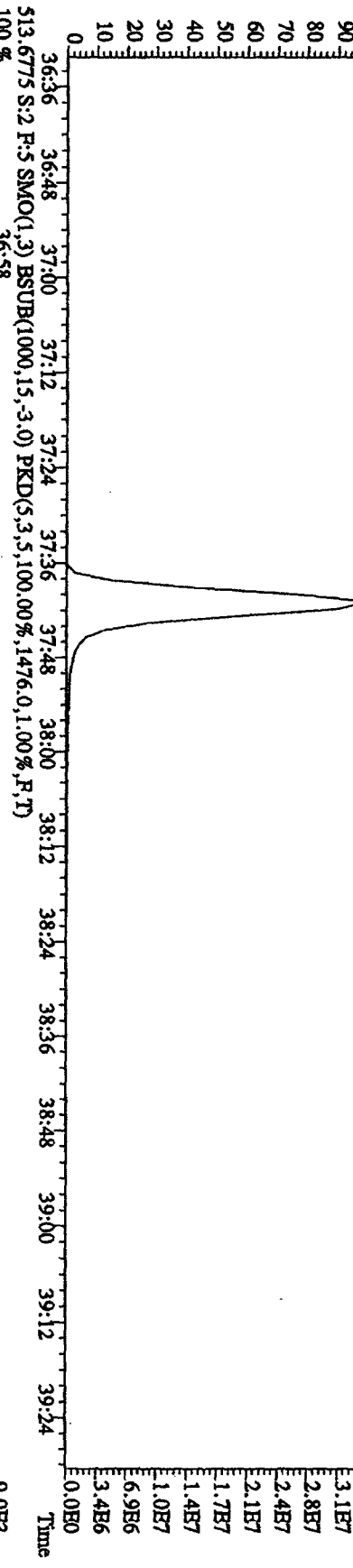
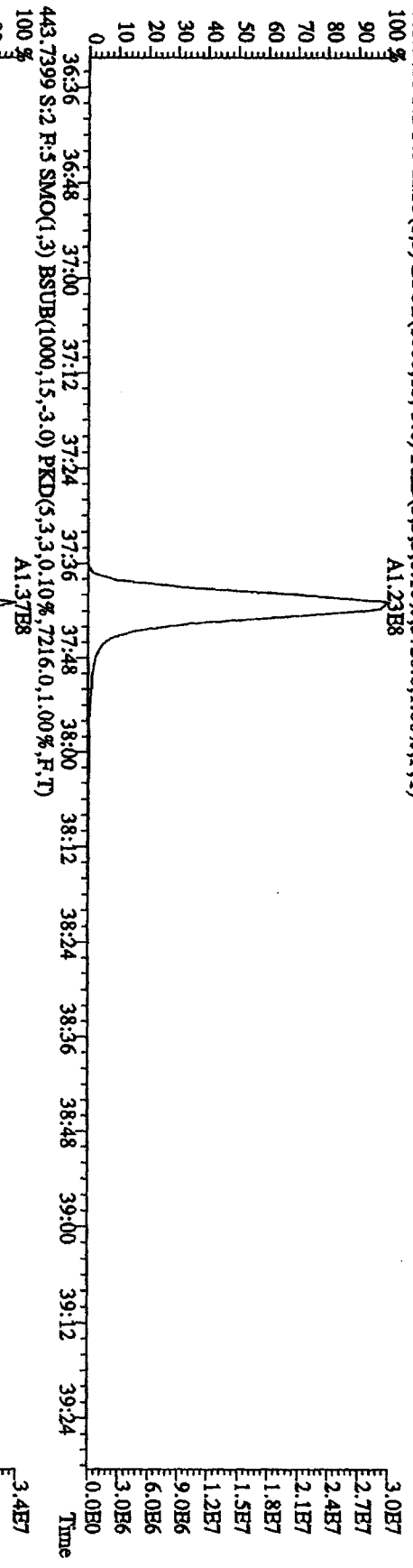
File: 27JUL101D5 #1-214 Acq: 27-JUL-2010 08:41:56 GC BI + Voltage SIR 70SE  
 Sample#2 Text: ST0727 : CSS3 10DXN36 Exp: DIOXINES  
 407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7916,0,1,00%,F,T)  
 100 %



File: 27JUL101D5 #1-214 Acq: 27-JUL-2010 08:41:56 GC BI + Voltage SIR 70SE  
 Sample#2 Text: ST0727 :CS3 10DXN336 Exp: DIOXINRES  
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6568,0,1,00%,F,T)  
 100%

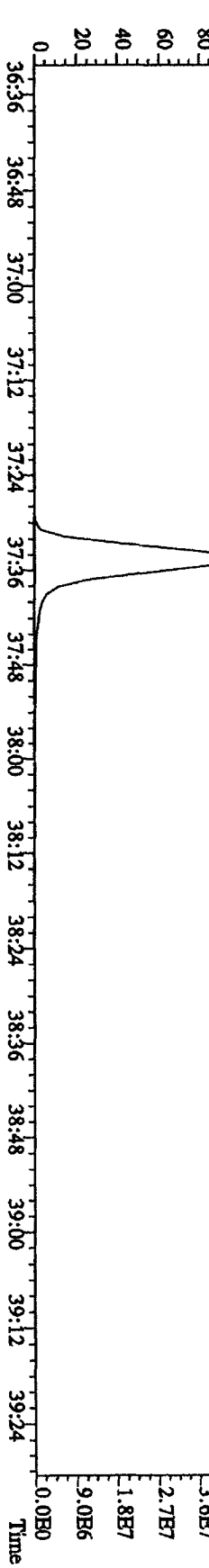
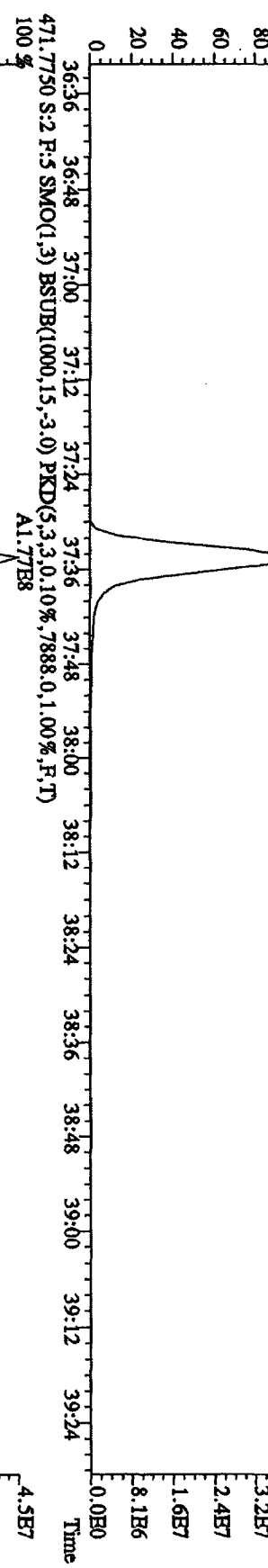
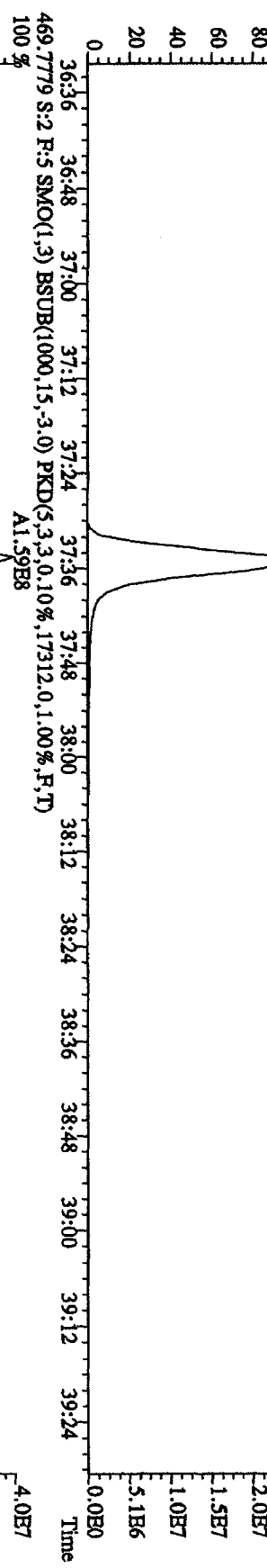
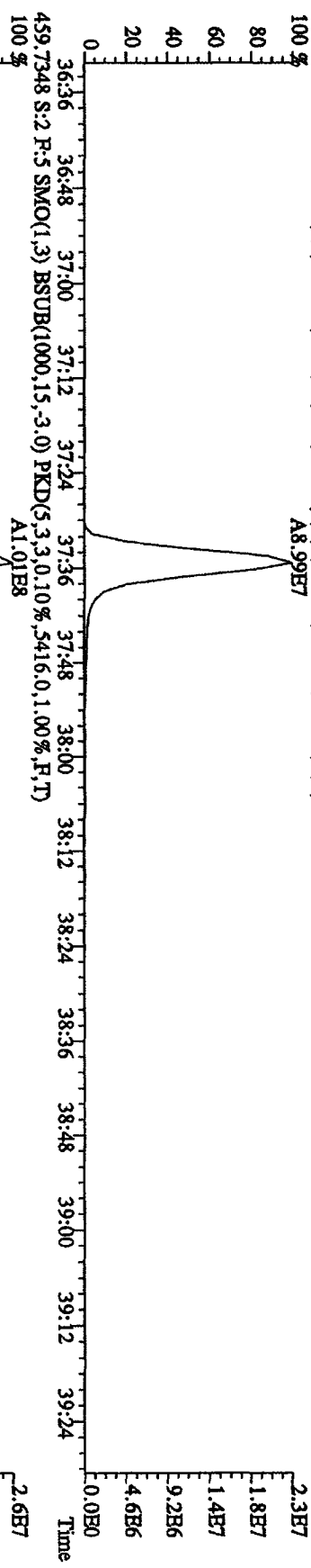


File: 27JL101D5 #1-196 Acq: 27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE  
 Sample#2 Text: ST0727 :CS3 10DXN336 Exp: DIOXINRES  
 441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5720,0,1,00%,F,T)  
 A1.23E8





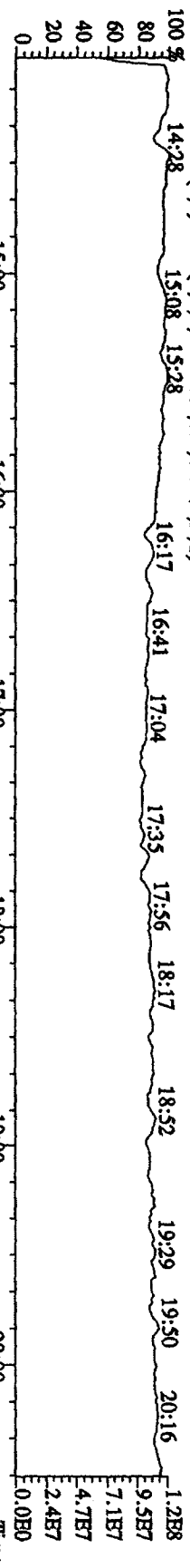
File:27JL101D5 #1-196 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SB  
 Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES  
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5896,0,1,00%,F,T)  
 100 % A8.99E7



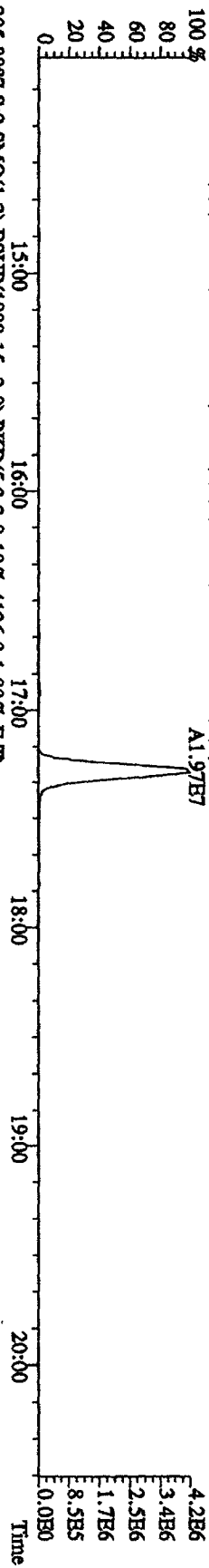
File:271L101D5 #1-382 Acq:27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE

Sample#2 Text:ST0727 :CS3 10DXN336 Exp:DIOXINRES

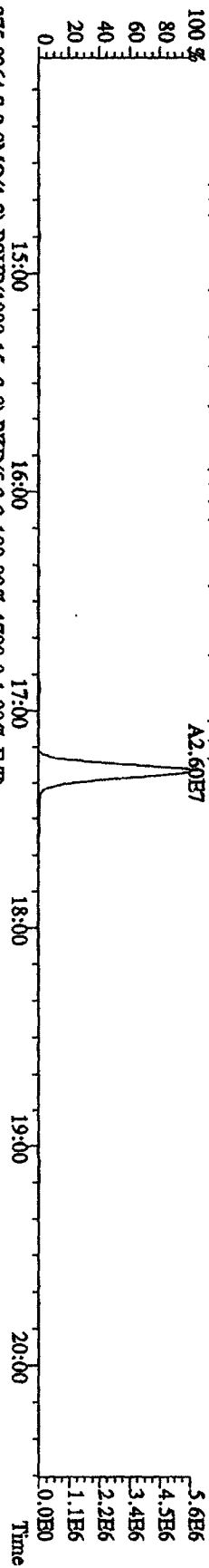
292.9825 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



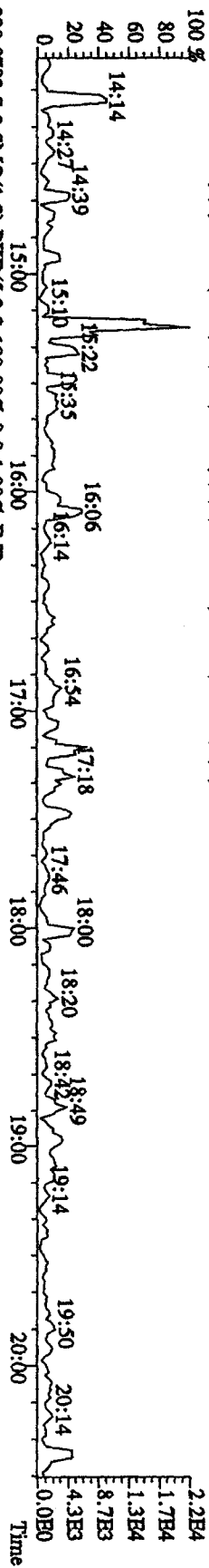
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3212,0,1.00%,F,T)



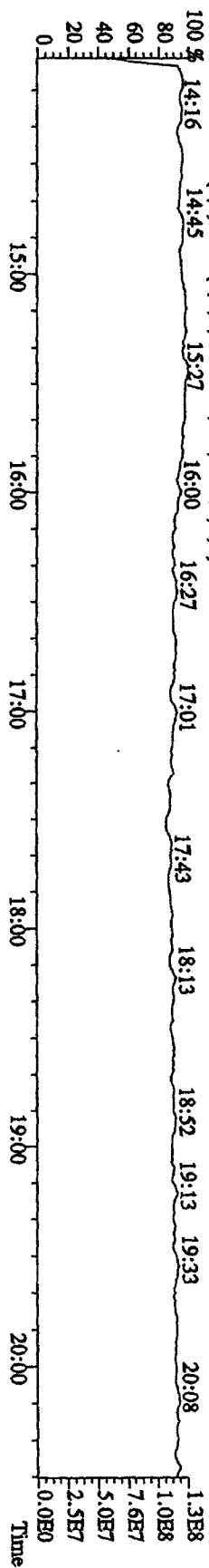
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4136,0,1.00%,F,T)



375.8364 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1700,0,1.00%,F,T)

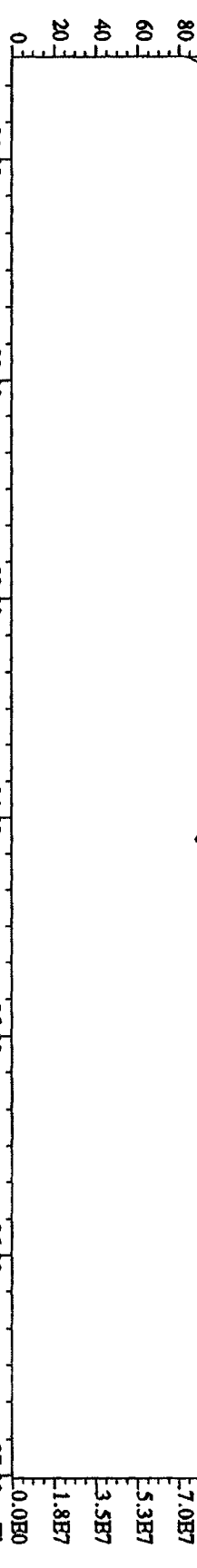


330.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

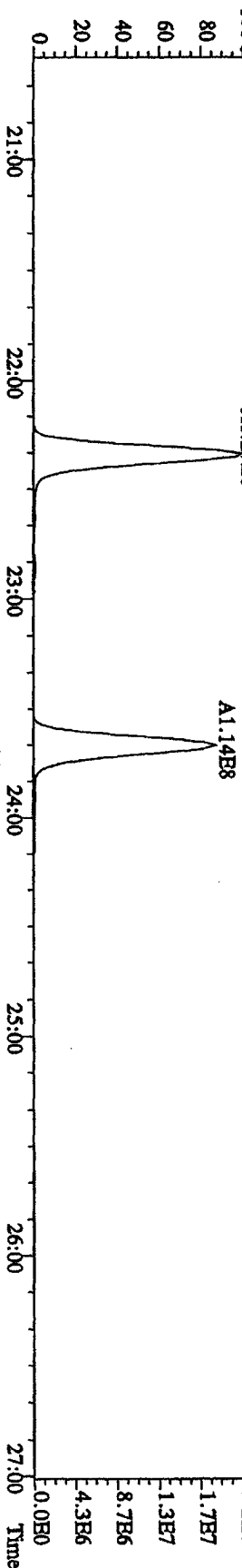


File: 27JUL101D5 #1-404 Acq: 27-JUL-2010 08:41:56 GC EI + Voltage SIR 70SE  
Sample#2 Text: ST0727 :CS3 10DXN336 Exp: DIOXINRES

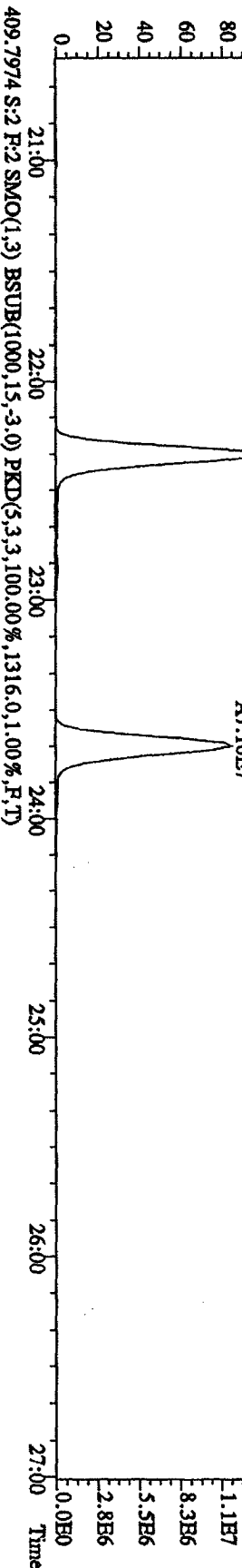
342.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 20:47 21:10 21:44 22:07 22:27 23:00 23:20 23:56 24:20 24:52 25:32 26:09 26:47



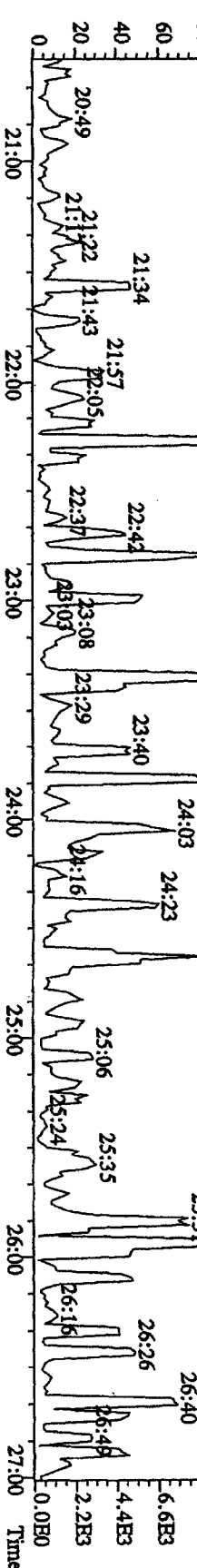
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5712.0,1.00%,F,T) A1.27B8 A1.14B8



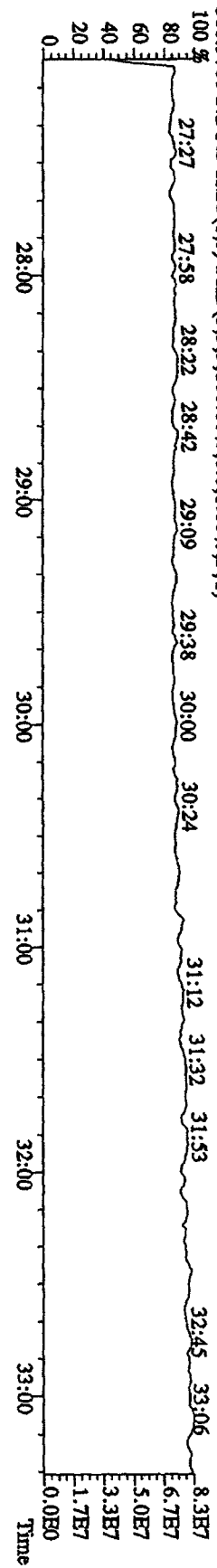
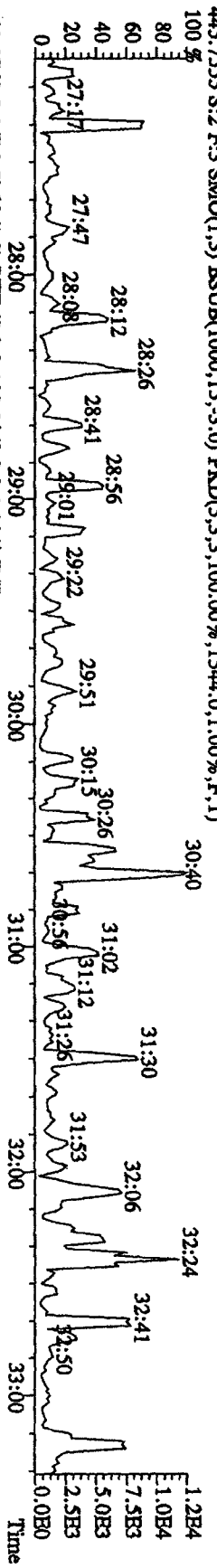
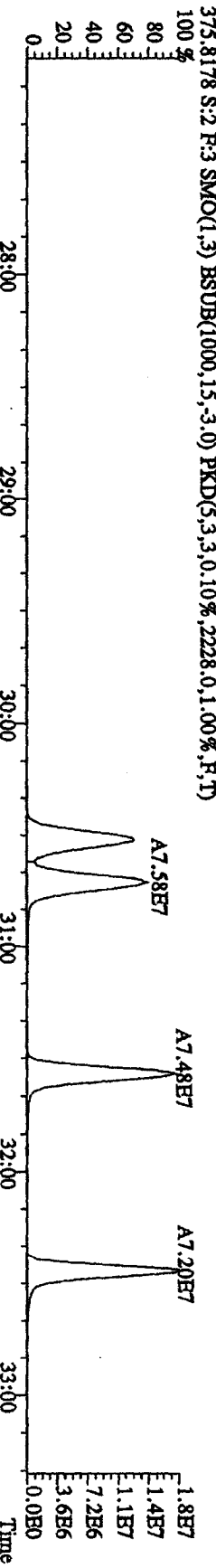
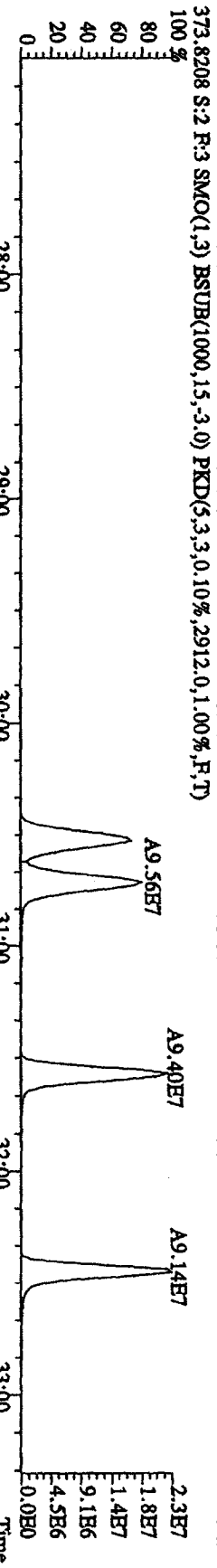
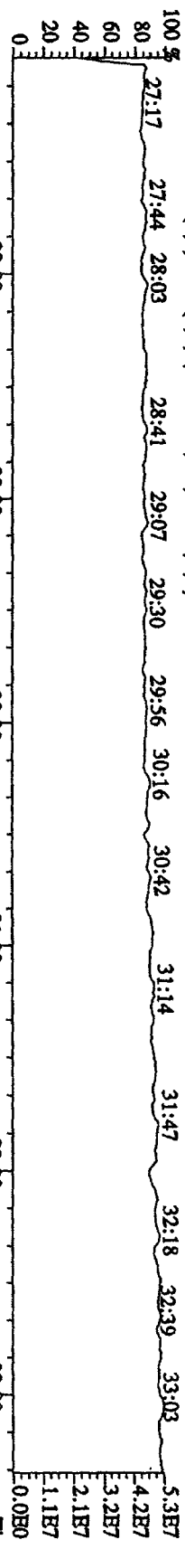
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8056.0,1.00%,F,T) A7.91B7 A7.10B7



409.7974 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1316.0,1.00%,F,T) 21:34 21:57 22:05 22:17 22:47 23:08 23:29 23:40 24:03 24:23 24:38 25:06 25:24 25:35 25:51 25:56 26:15 26:26 26:40 26:49



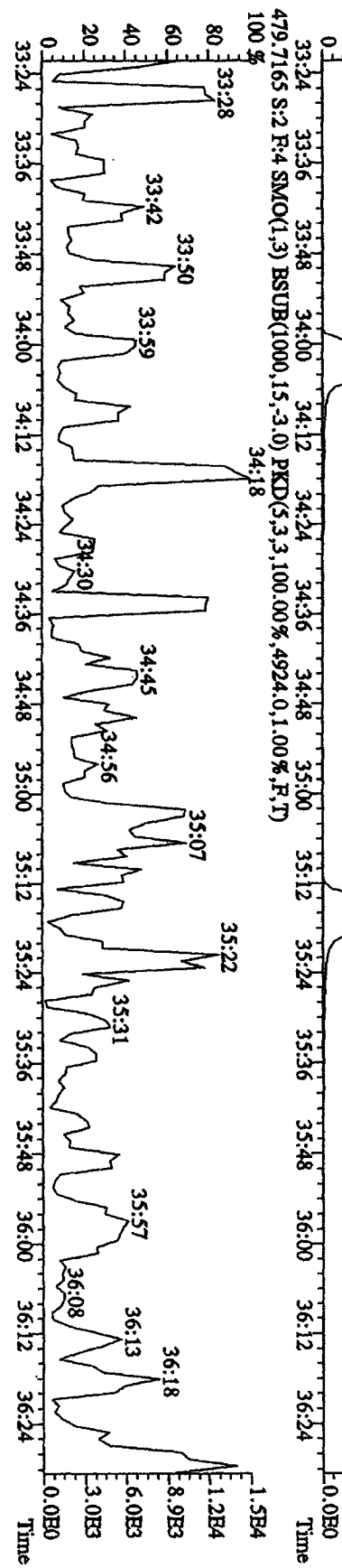
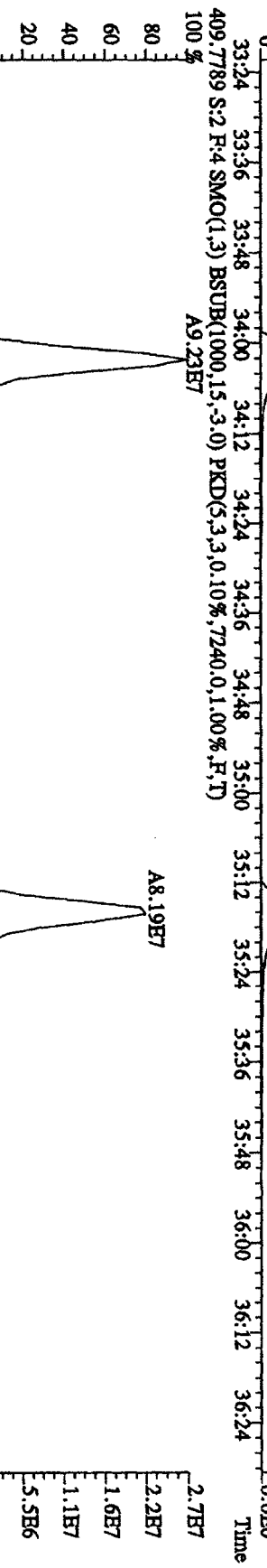
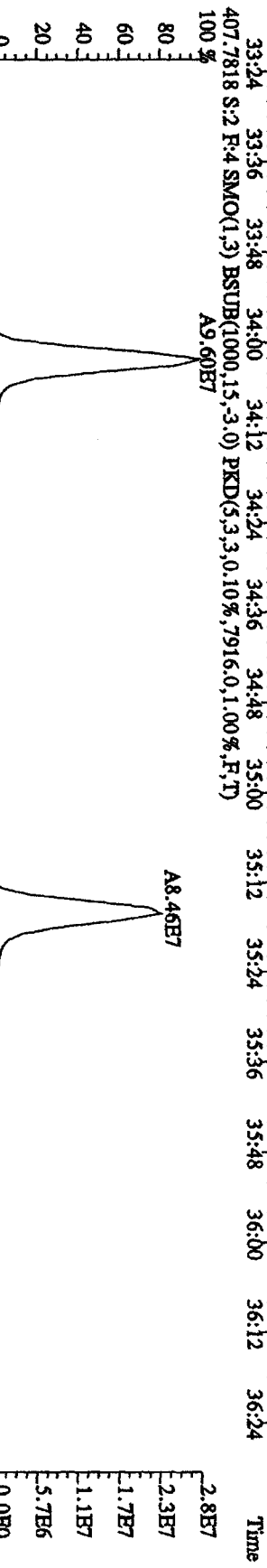
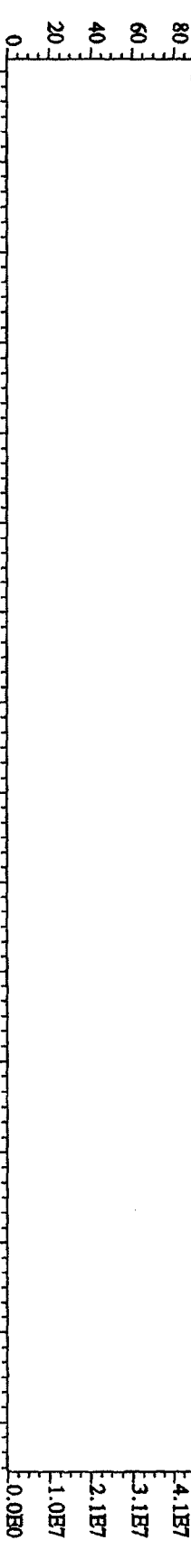
File: 271L101D5 #1-406 Acq: 27-JUL-2010 08:41:56 GC HI + Voltage SIR 70SE  
 Sample#2 Text: ST0727 :CS3 10DXN336 Exp: DIOXINRES  
 392.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 380.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



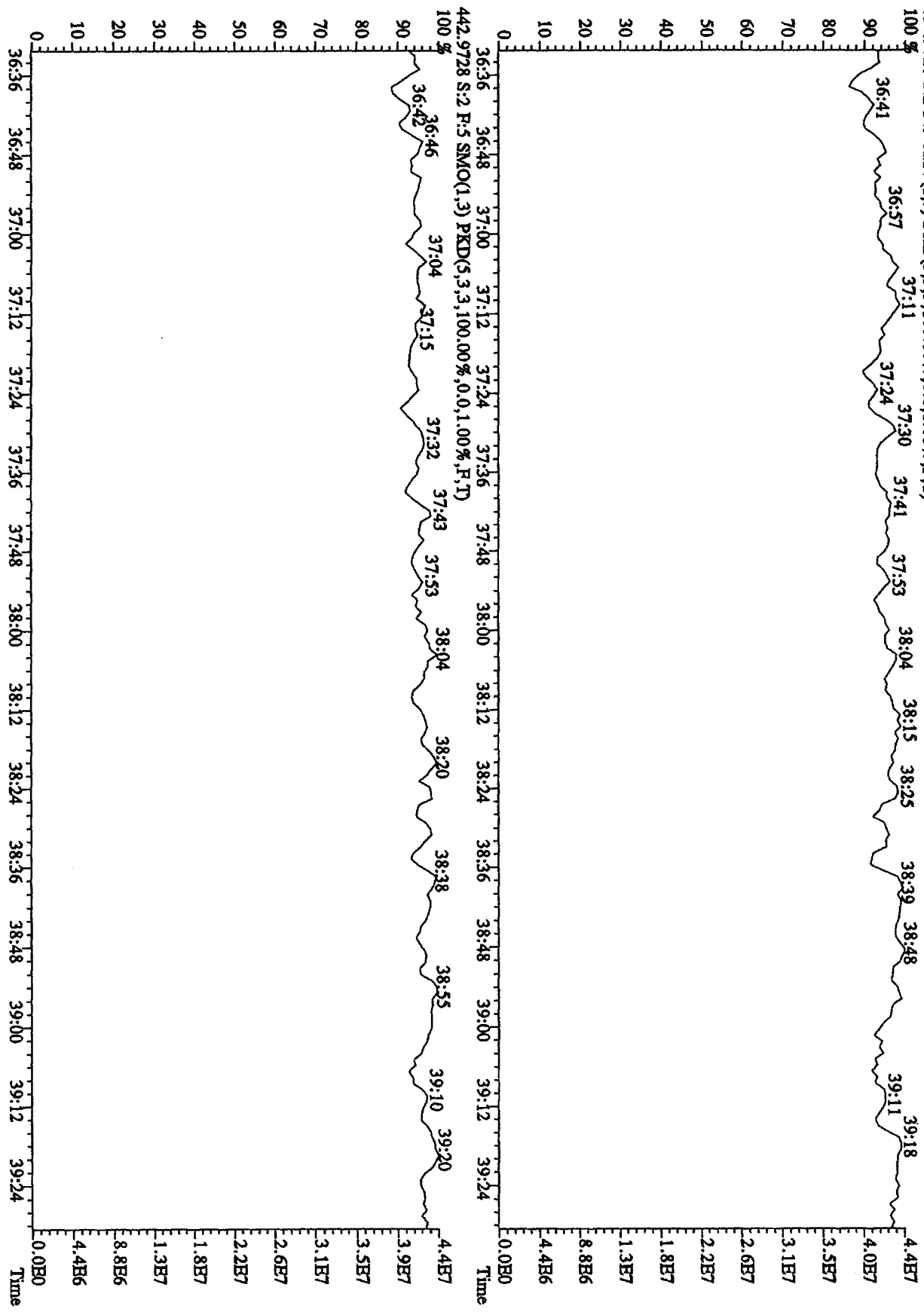
File: 271L101D5 #1-214 Acq: 27-JUL-2010 08:41:56 GC EI+ Voltage SIR 70SE

Sample#2 Text: ST0727 : CS3 IODIXN36 Exp: DIOXINRES

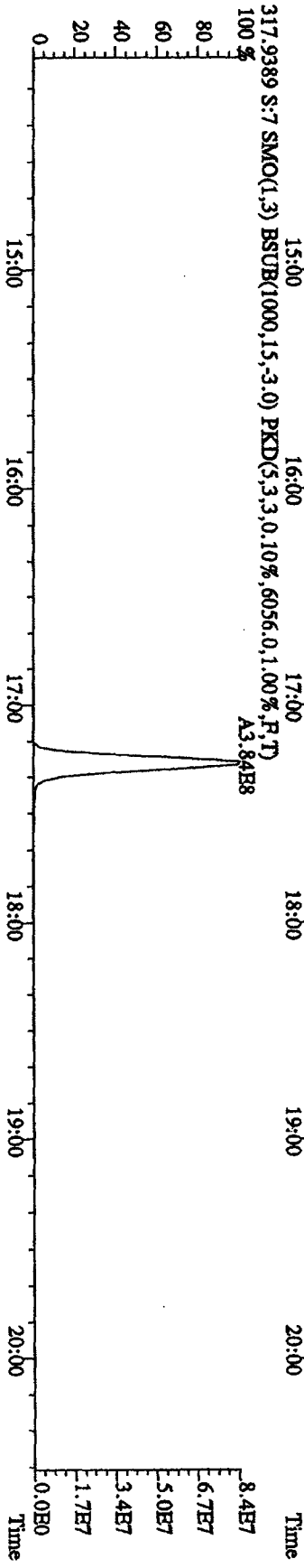
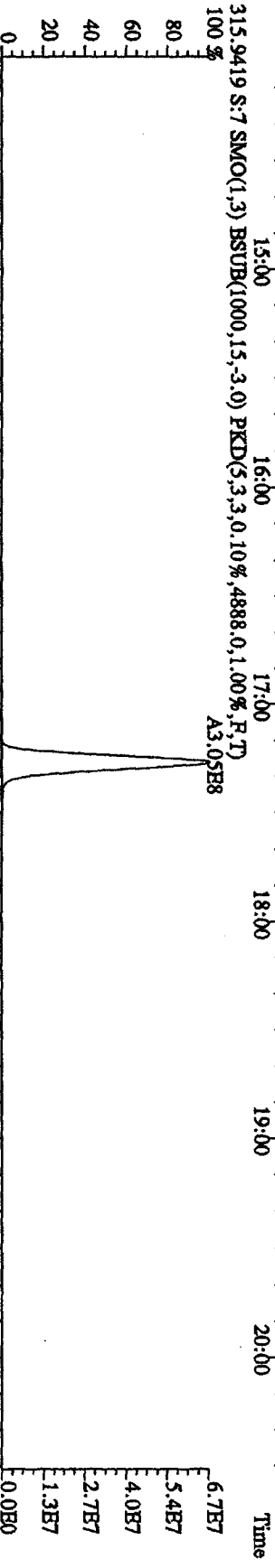
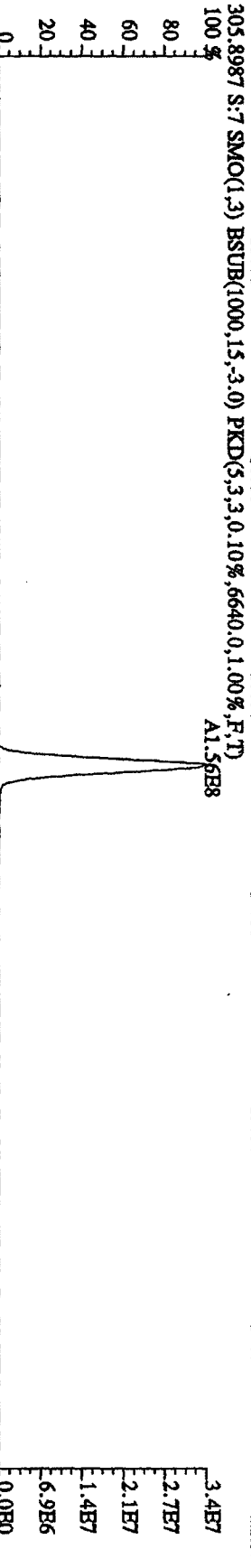
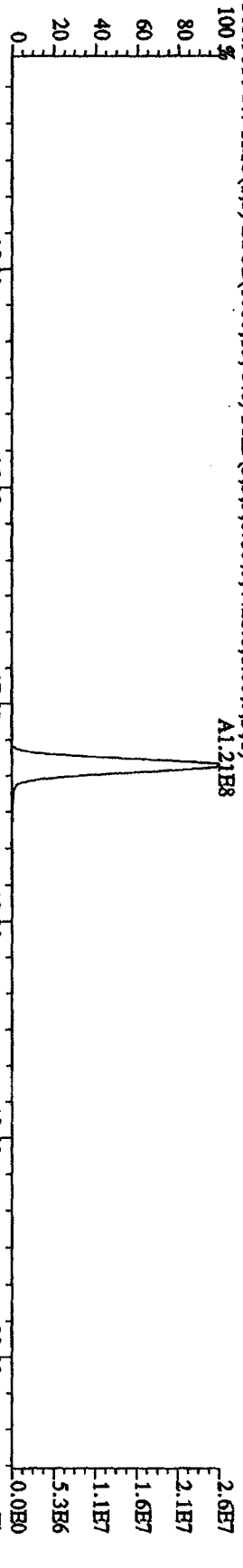
430.9728 S:2 F:4 SMO(1.3) PKD(5.3,3.100,0.0%,0.0,1.00%,F,T)



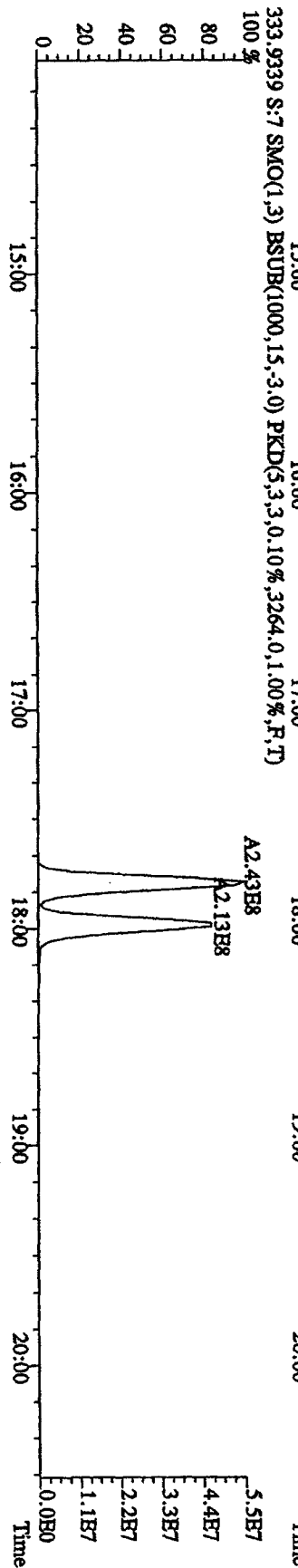
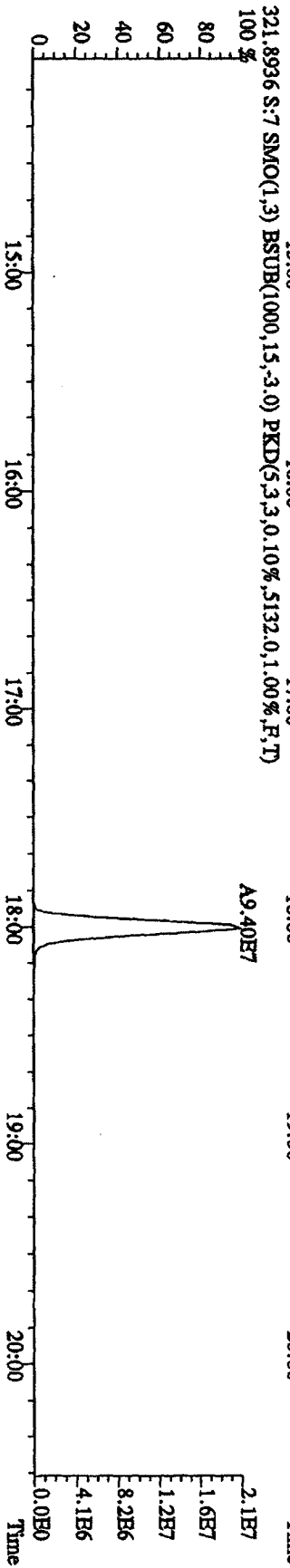
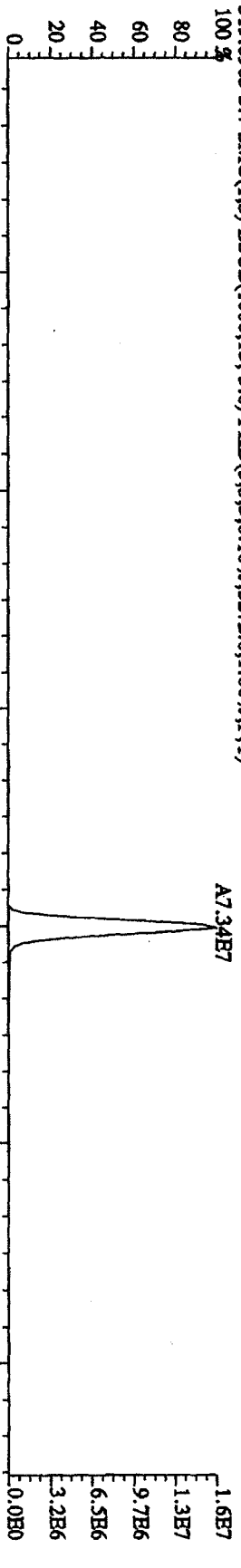
File: 27JUL101D5 #1-196 Acq: 27-JUL-2010 08:41:56 GC EI+ Voltage: SIR 70SE  
 Sample#2 Text: ST0727 : CS3 10DXN336 Exp: DIOXINRES  
 454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 27JL101D5 #1-382 Acq: 27-JUL-2010 12:22:47 GC: BI+ Voltage: SIR 70SE  
 Sample#7 Text: ST0727E : CS4 10DXN337 Exp: DIOXINRES  
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4428.0,1.00%,F,T)  
 100%

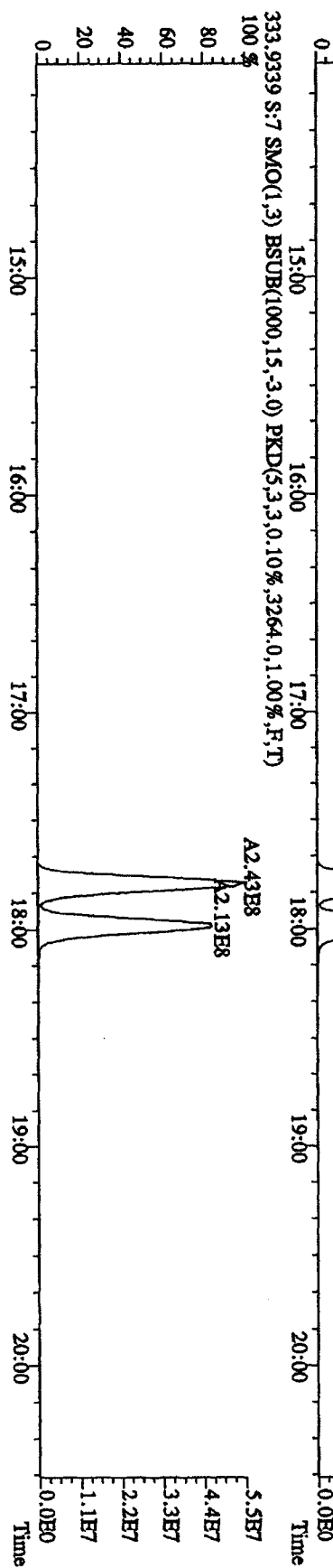
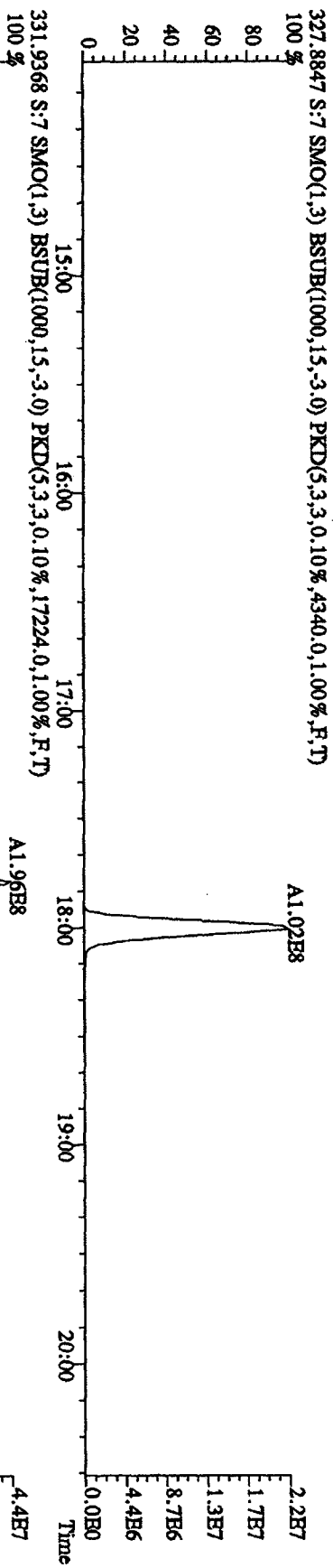
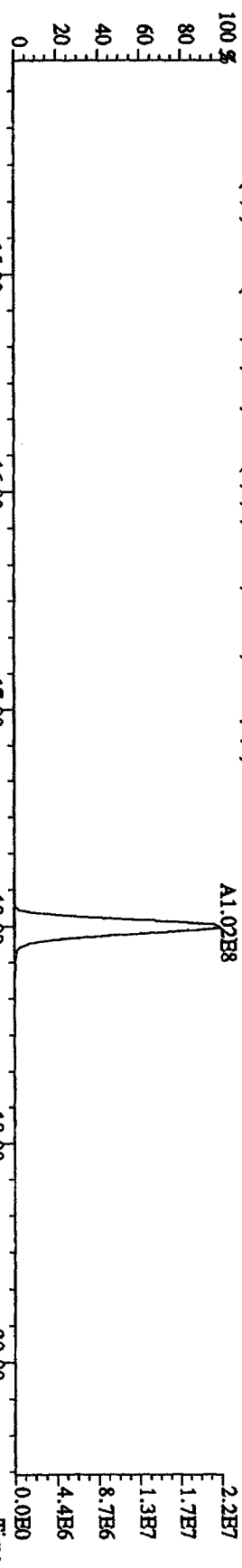


File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0727B :CS4 10DXN337 Exp: DIOXINES  
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.5272,0,1,00%,F,T)

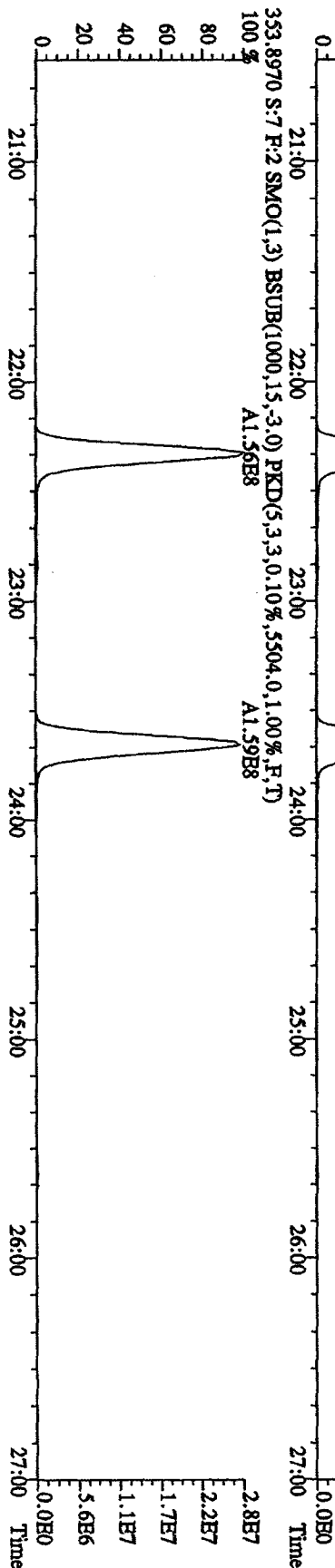
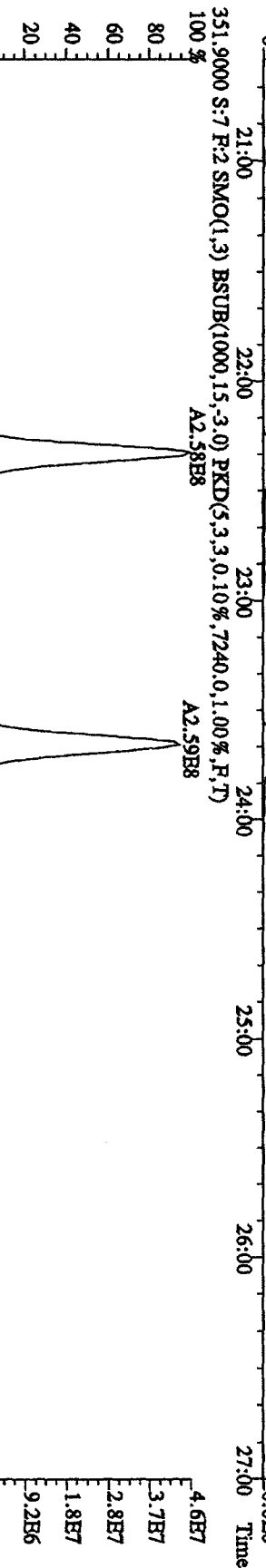
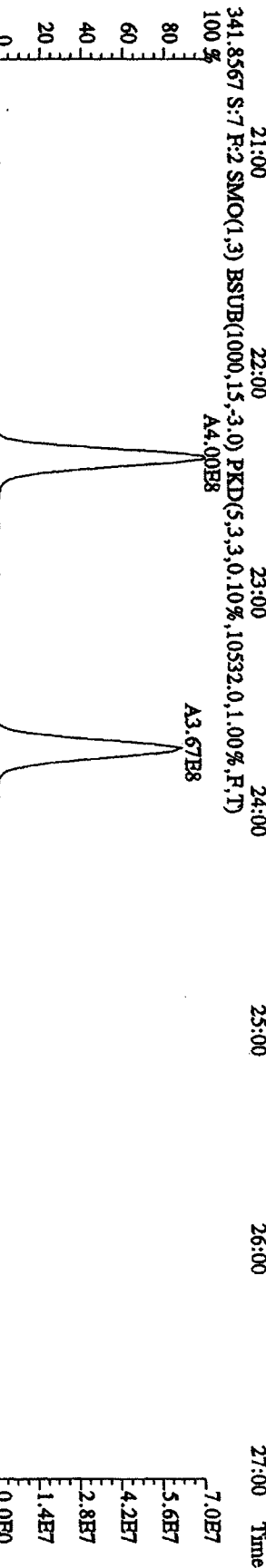
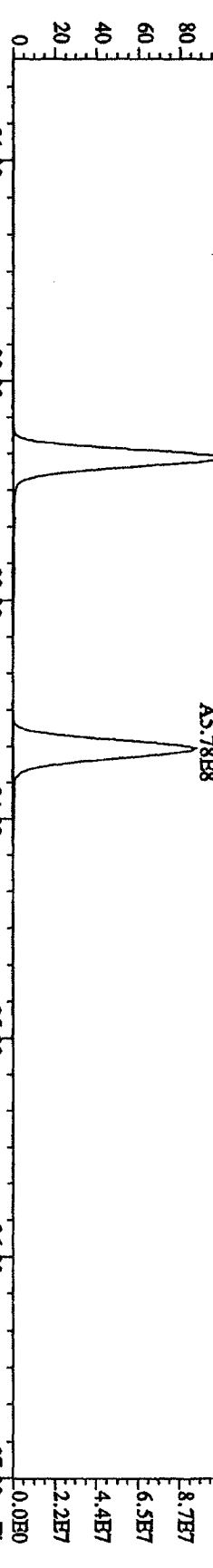




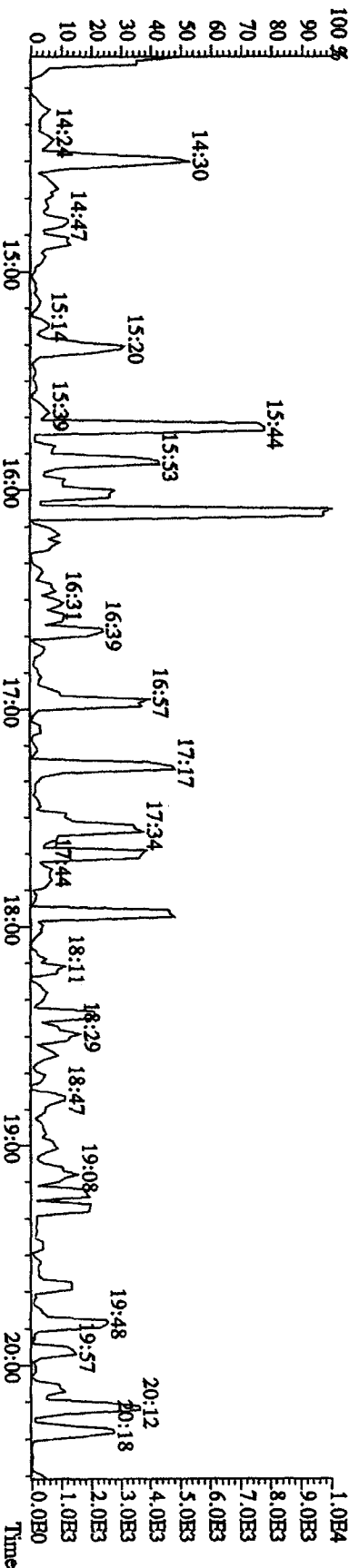
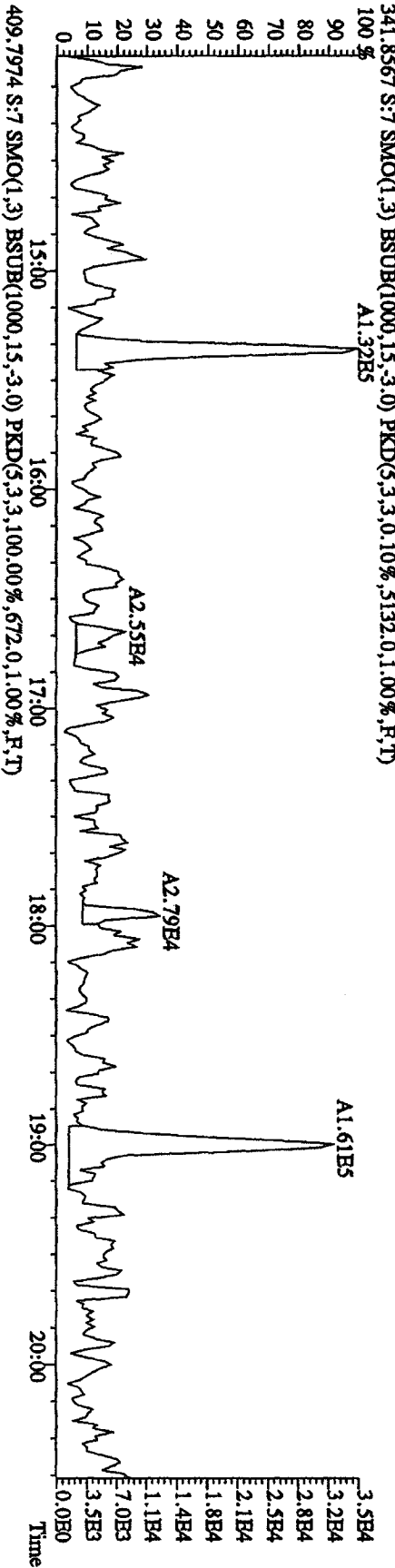
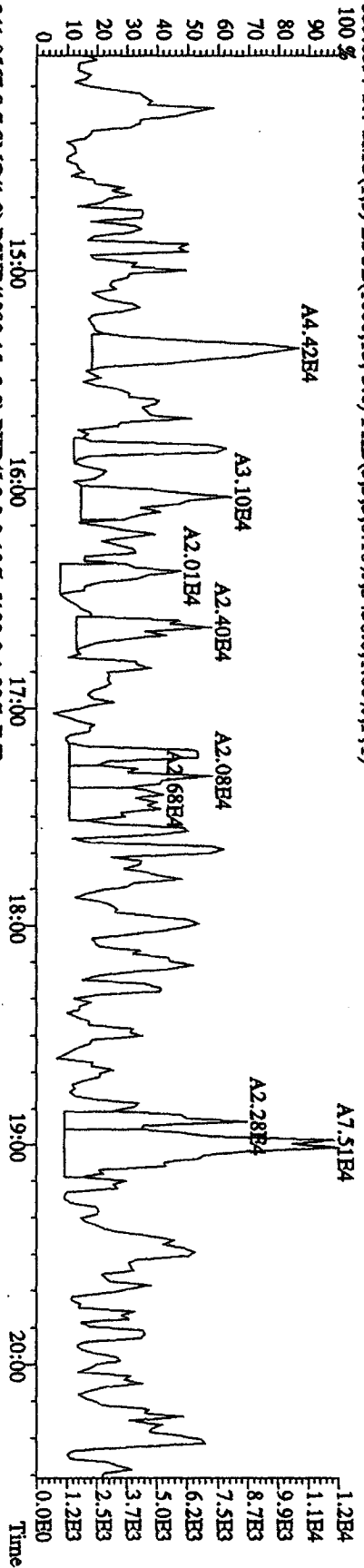
File: 27JUL10ID5 #1-382 Acq: 27-JUL-2010 12:22:47 GC EI+ Voltage SFR 70SB  
 Sample# 7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES  
 327.8847 S: 7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4340,0,1,00%,F,T)  
 100%



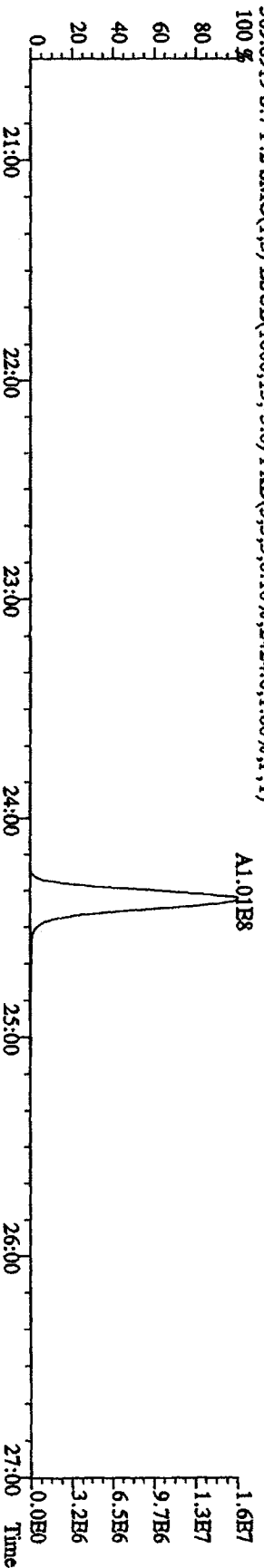
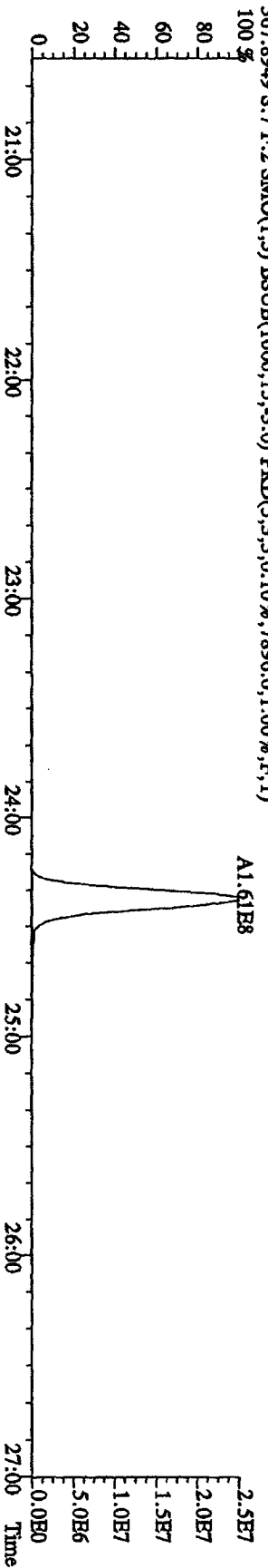
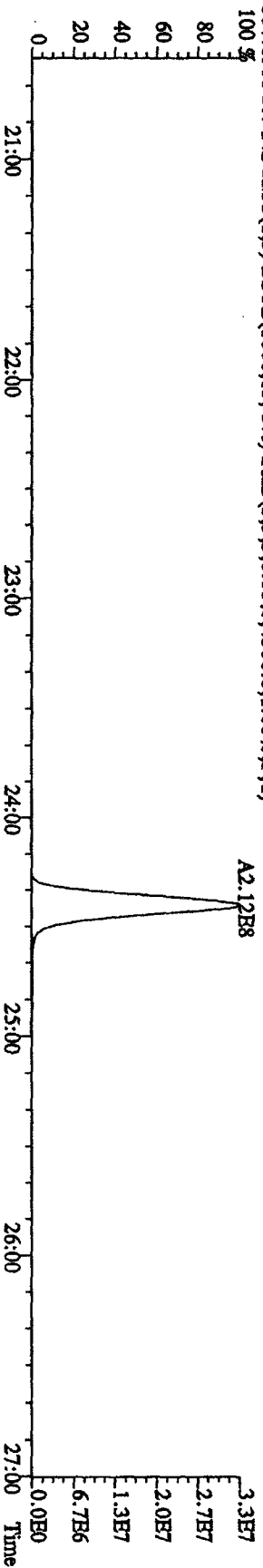
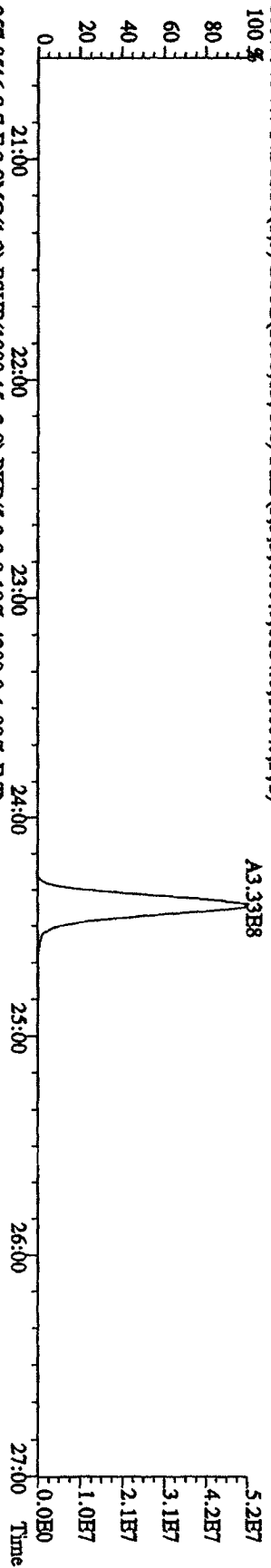
File: 27JUL101D5 #1-403 Acq: 27-JUL-2010 12:22:47 GC HI + Voltage SIR 70SB  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES  
 339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12852,0,1,00%,F,T)  
 100%



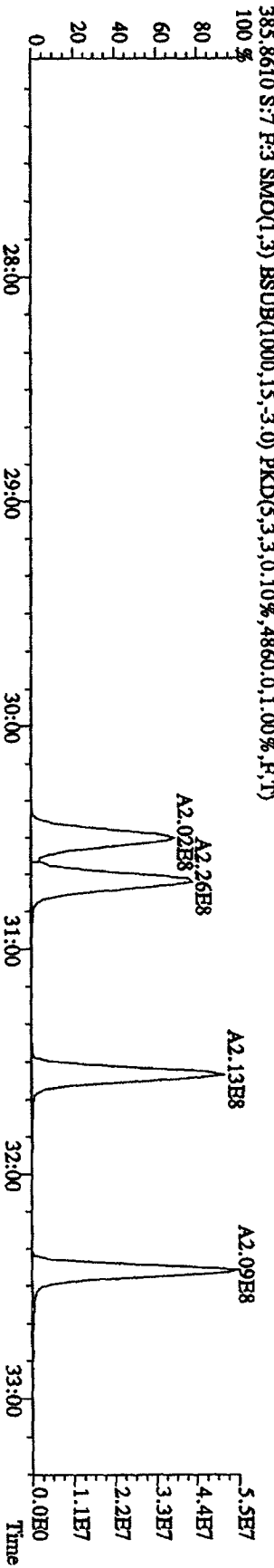
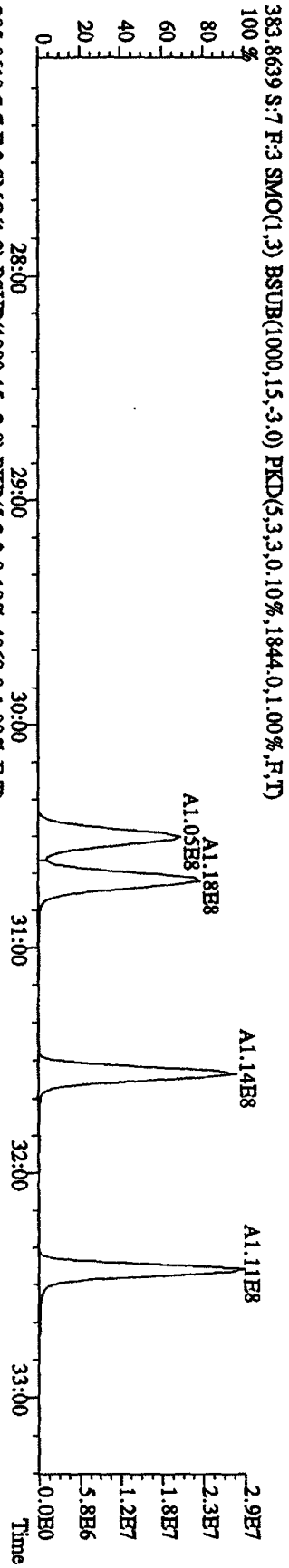
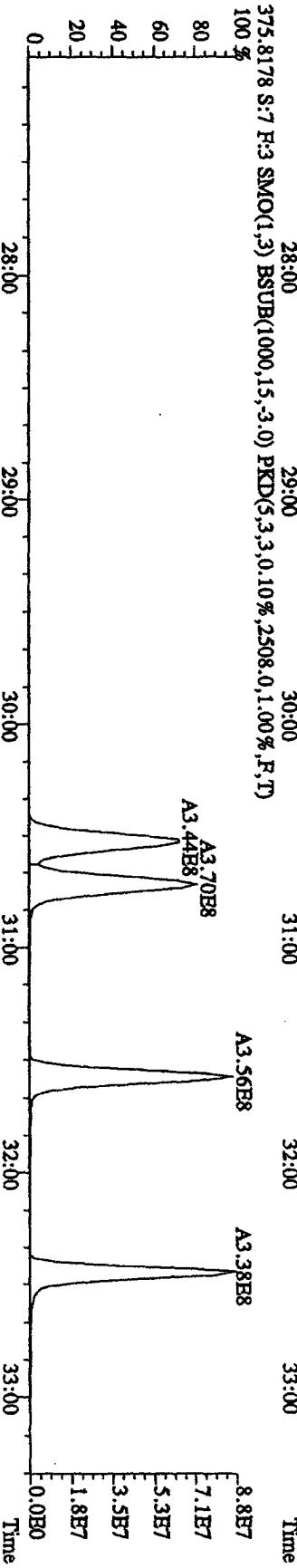
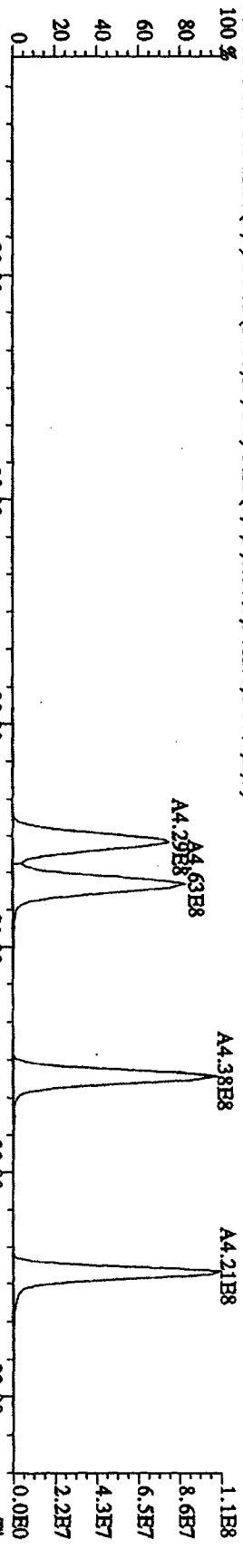
File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 12:22:47 GC HI + Voltage SIR 70SE  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES  
 339.8597 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3456,0,1,00%,F,T)



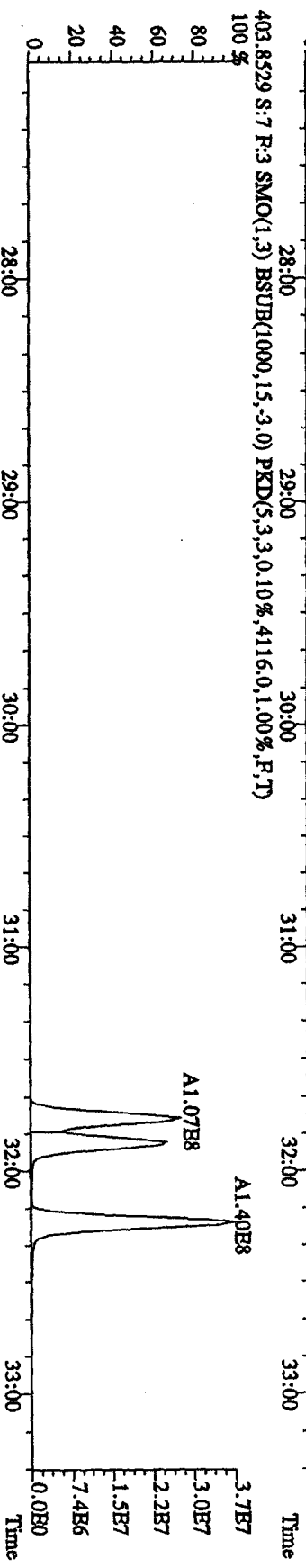
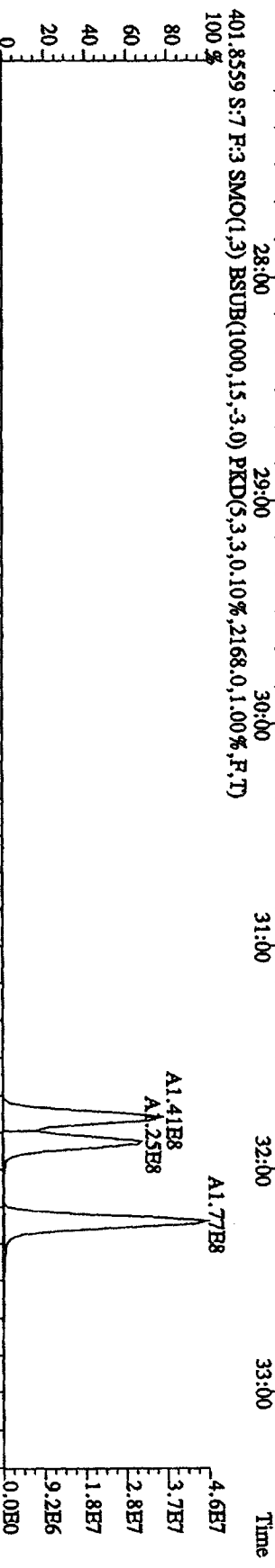
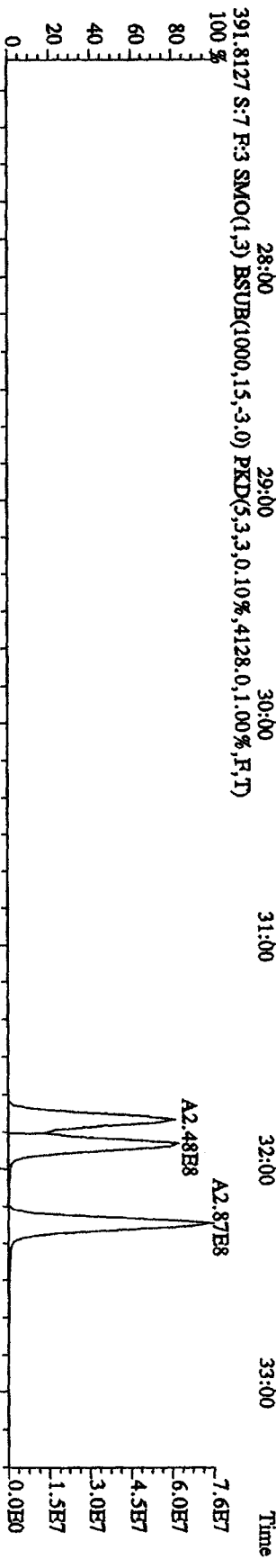
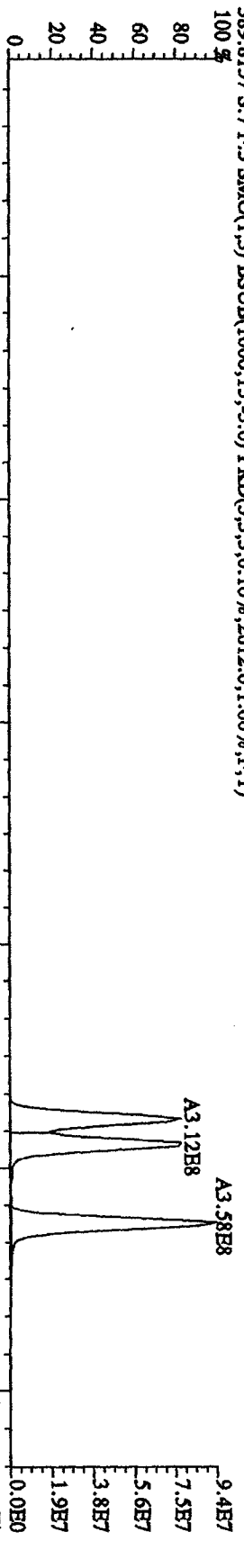
File: 27JUL101D5 #1-403 Acq: 27-JUL-2010 12:22:47 GC BI + Voltage SIR 70SE  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES  
 355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6184.0,1.00%,F,T)



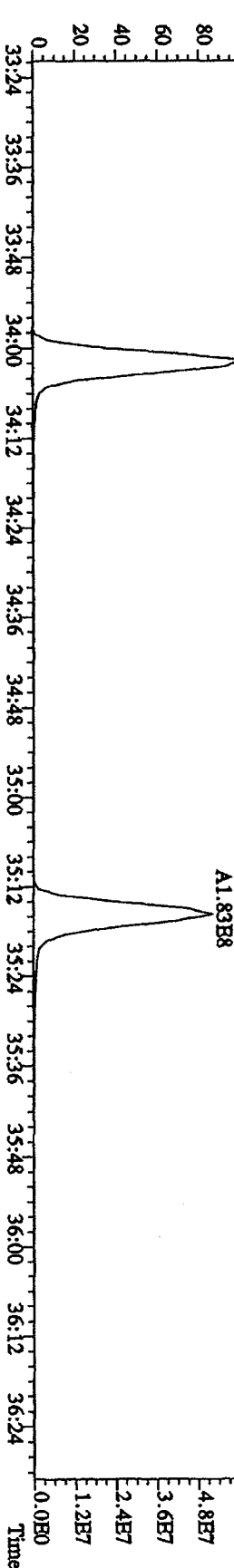
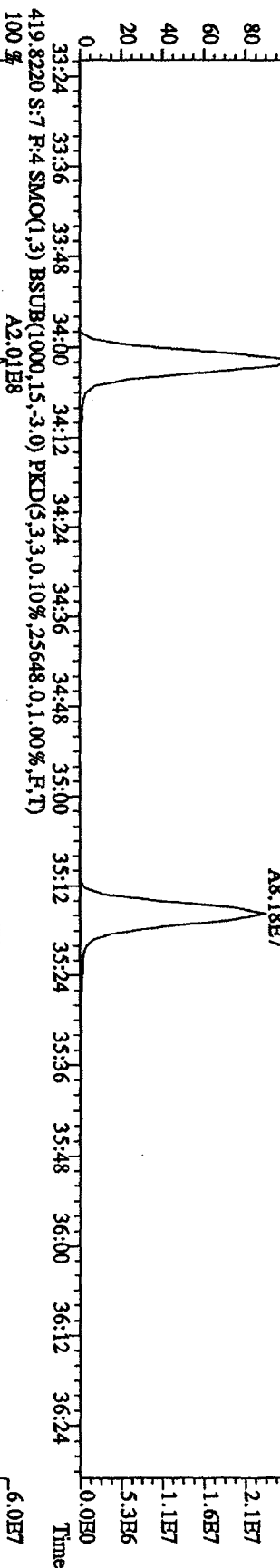
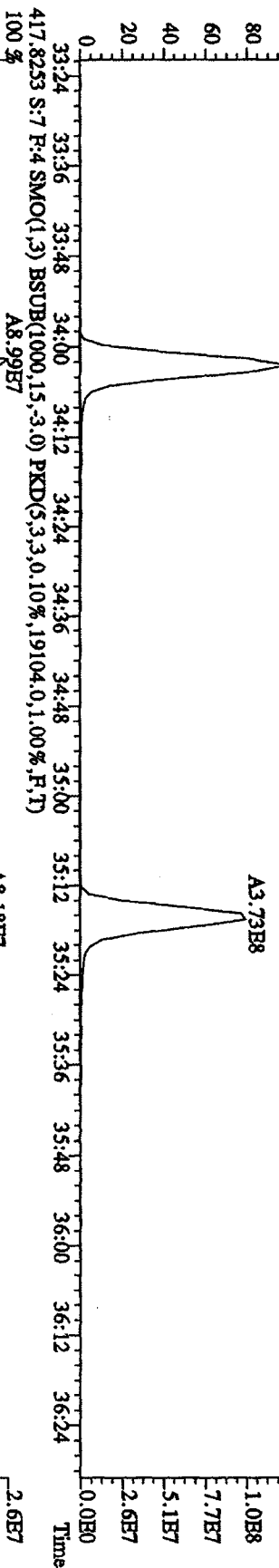
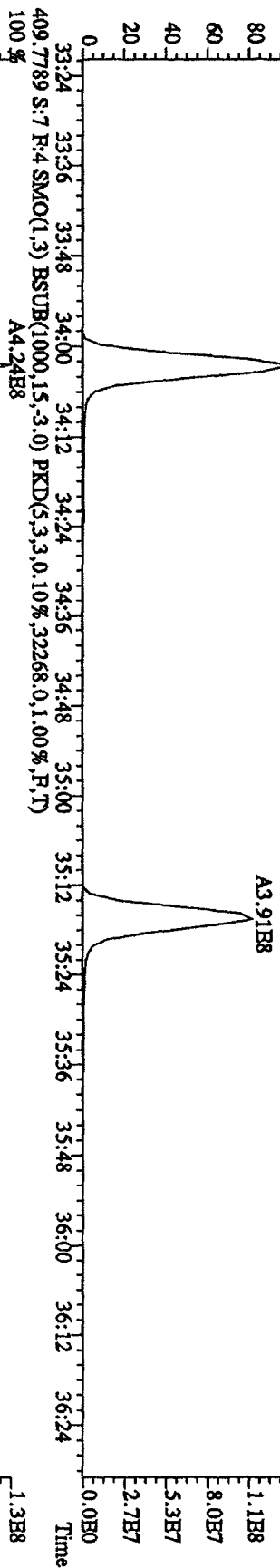
File:27JL101D5 #1-406 Acq:27-JUL-2010 12:22:47 GC HI + Voltage SIR 70SB  
 Sample#7 Text:ST0727E :CS4 10DXN337 Exp:DIOXINRES  
 373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3412,0,1.00%,F,T)



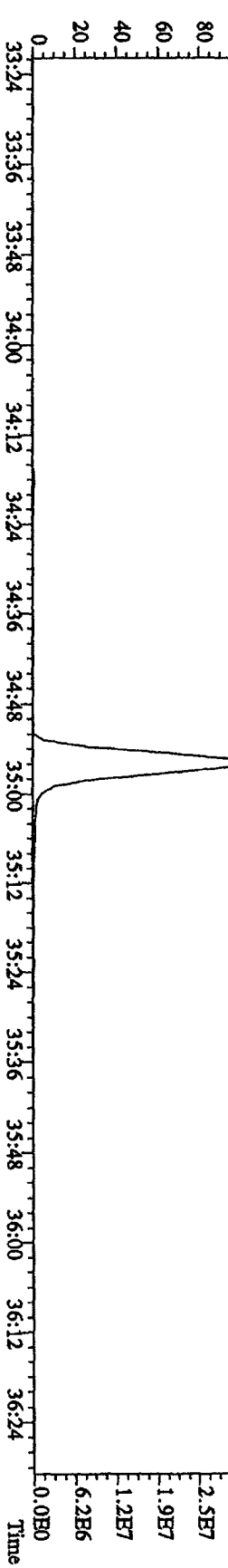
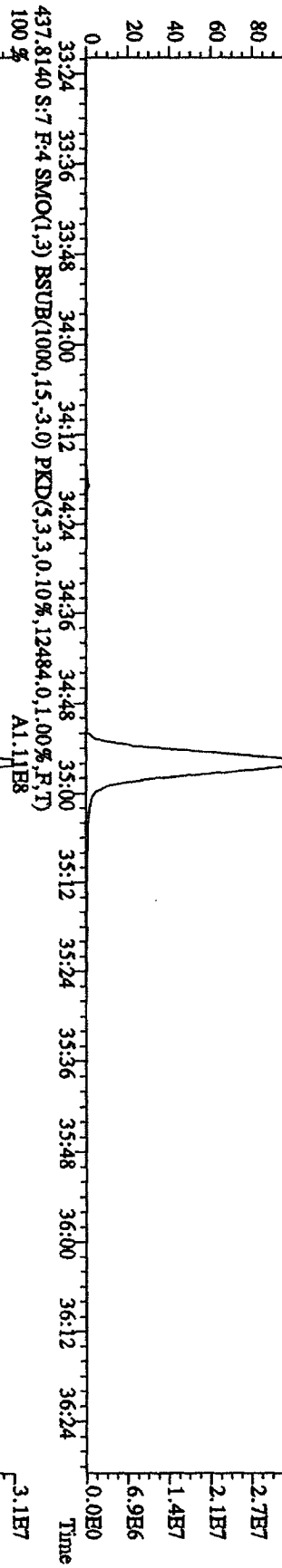
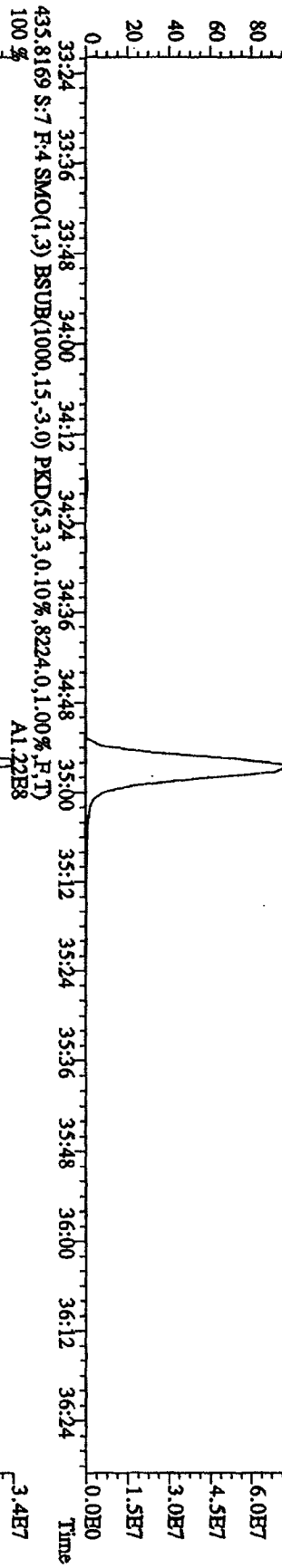
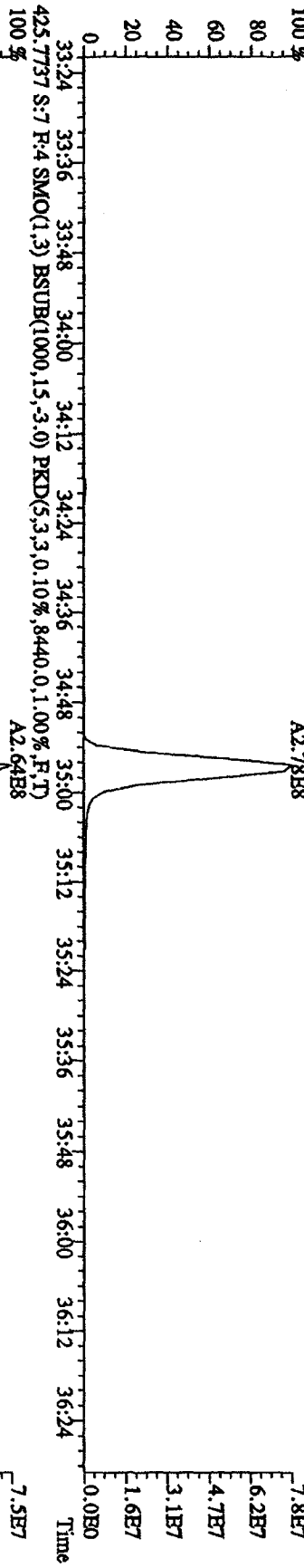
File: 27JL101D5 #1-406 Acq: 27-JUL-2010 12:22:47 GC HI+ Voltage SIR 70SE  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES  
 389.8157 S:7 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,2612.0,1.00%,F,T)



File: 27JUL101D5 #1-215 Acq: 27-JUL-2010 12:22:47 GC: EI + Voltage: SIR 70SE  
 Sample#7 Text: ST0727B :CS4 10DXN337 Exp: DIOXINRES  
 407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,11856,0.1,0.0%,F,T)  
 100%

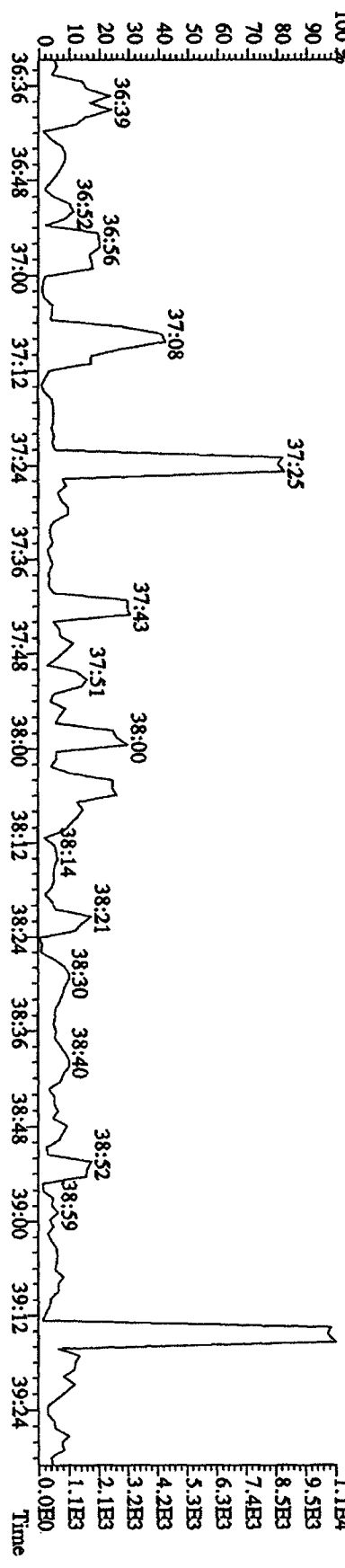
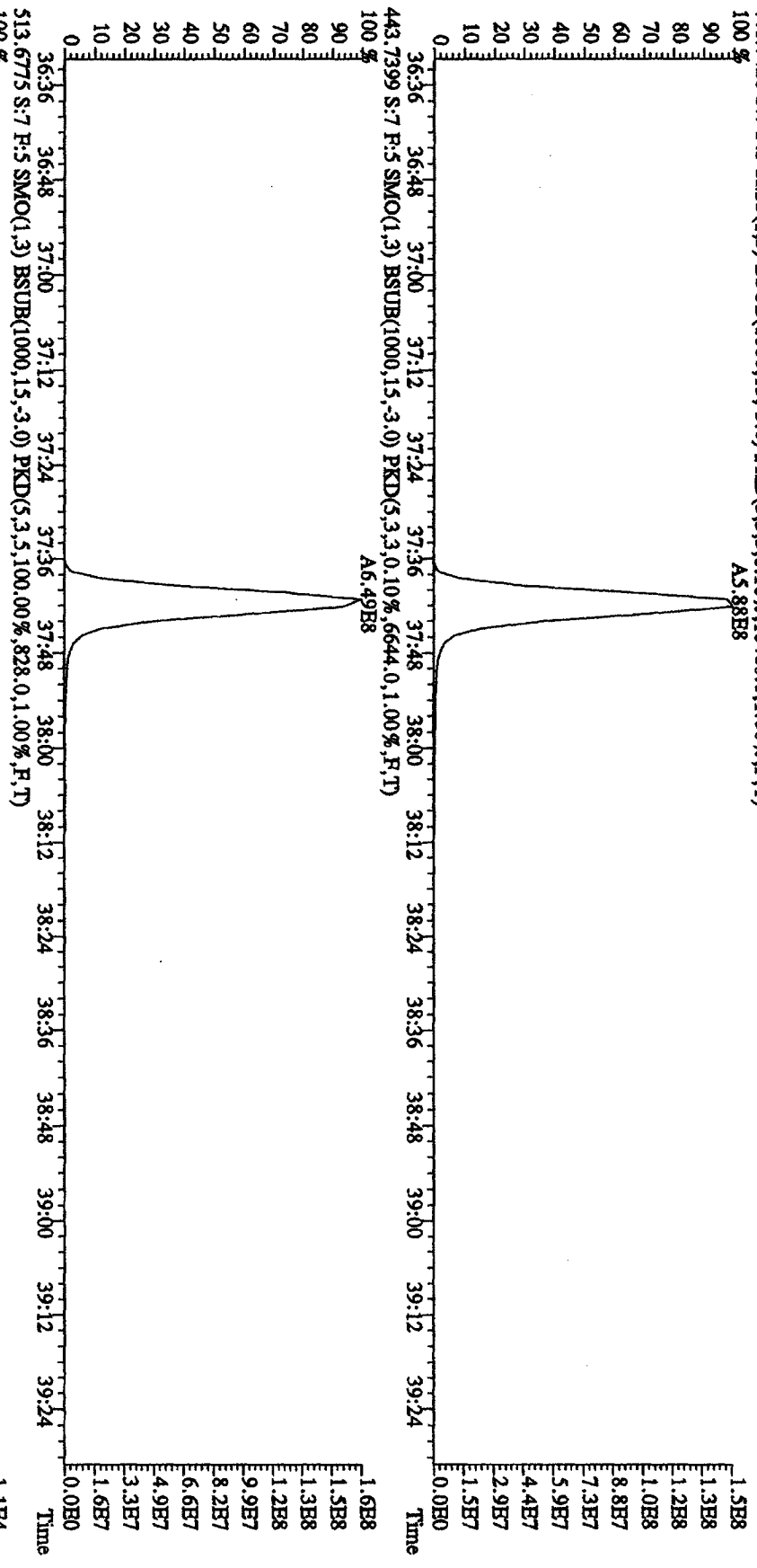


File: 27JUL10ID5 #1-215 Acq: 27-JUL-2010 12:22:47 GC HI+ Voltage SIR 70SE  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES  
 423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,13696,0,1,00%,F,T)  
 100%

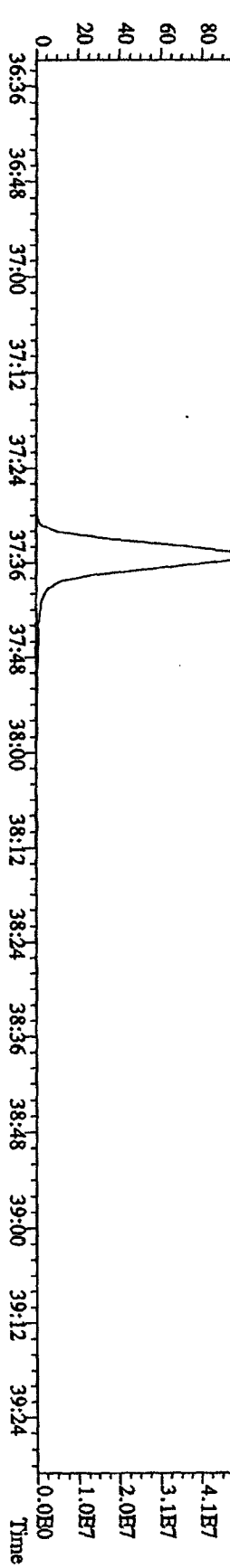
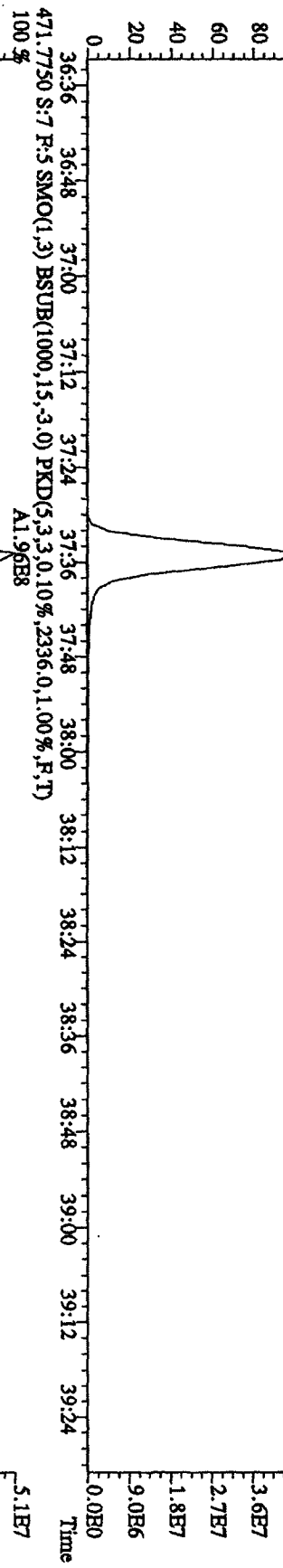
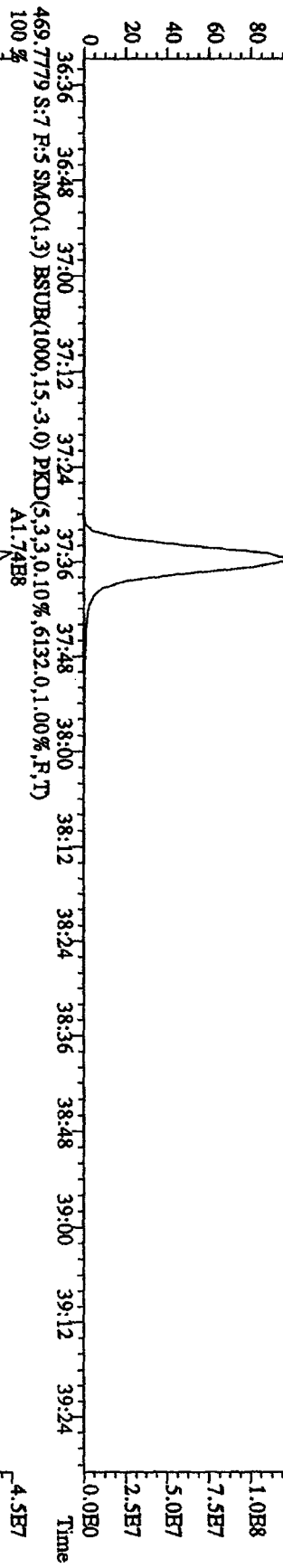
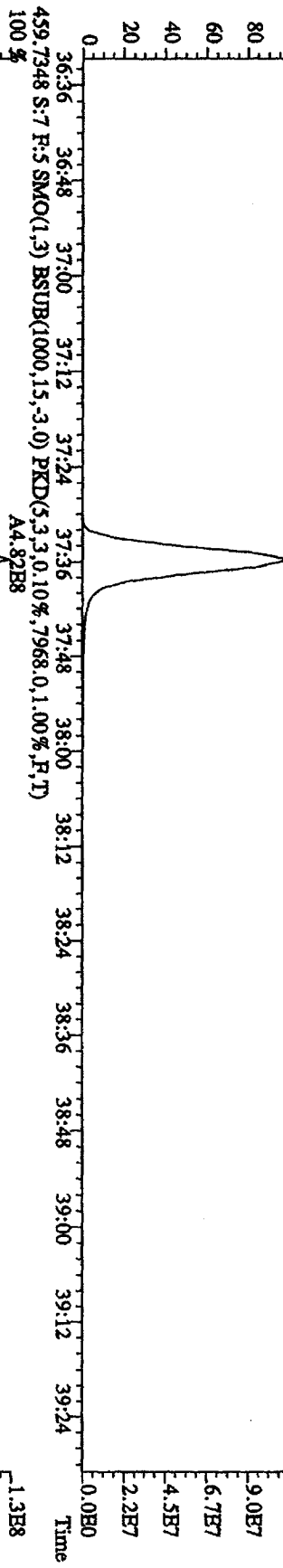




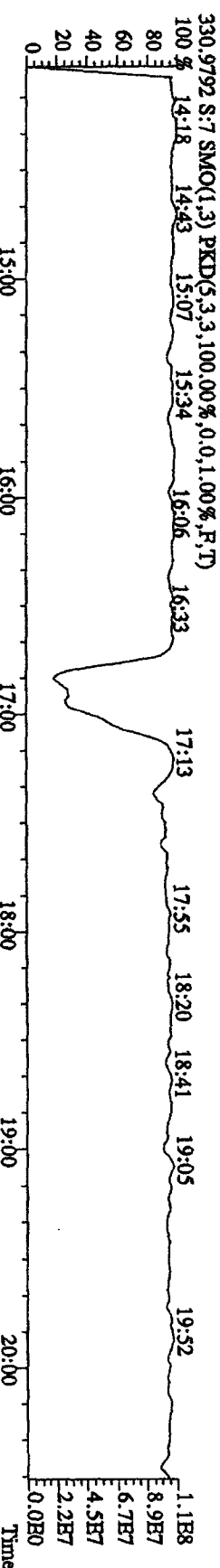
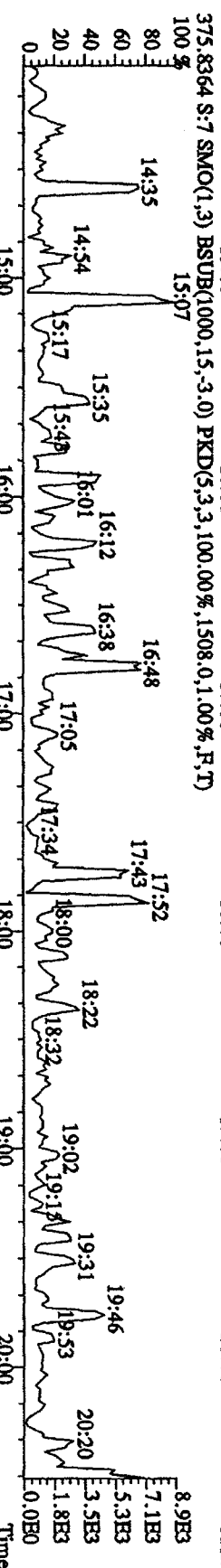
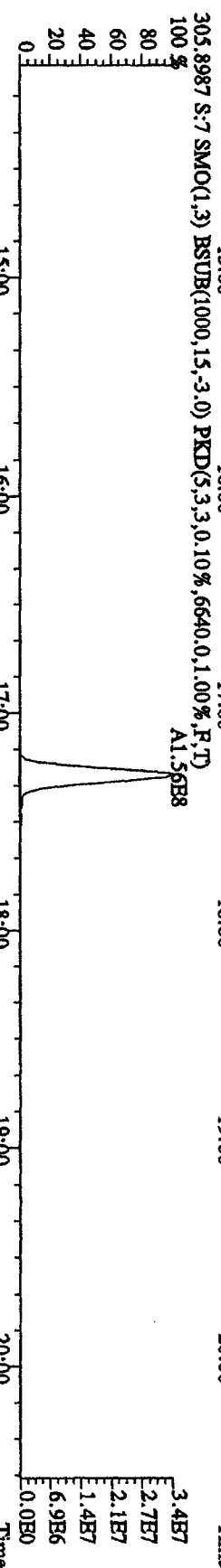
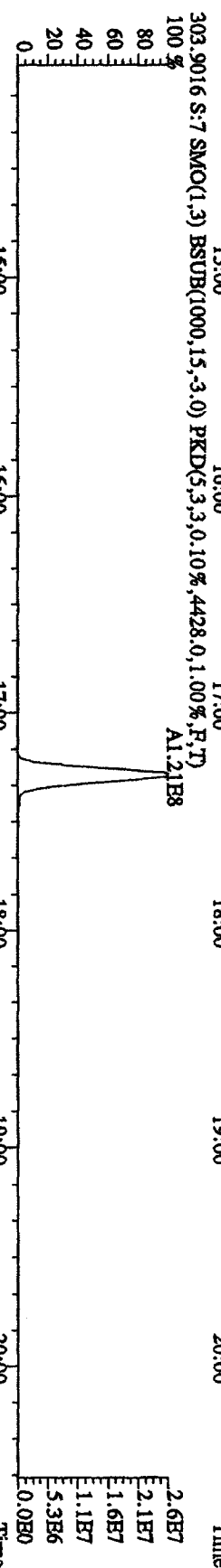
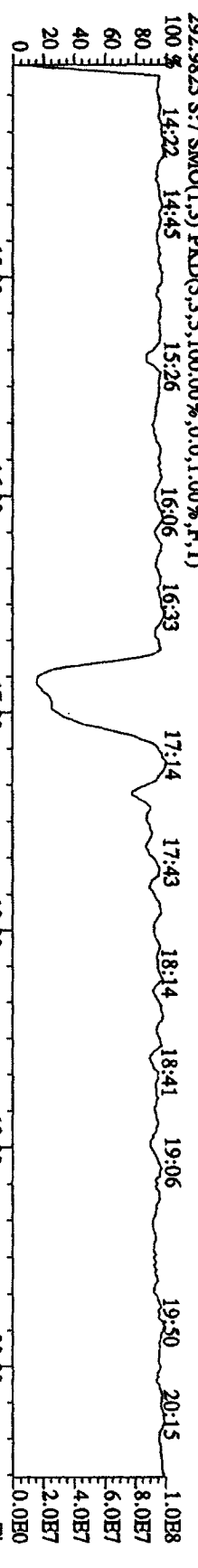
File: 27JUL101D5 #1-196 Acq: 27-JUL-2010 12:22:47 GC EI+ Voltage: 519V SFR 70SFH  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES  
 441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10480,0,1,00%,F,T)  
 100% A5.88E8



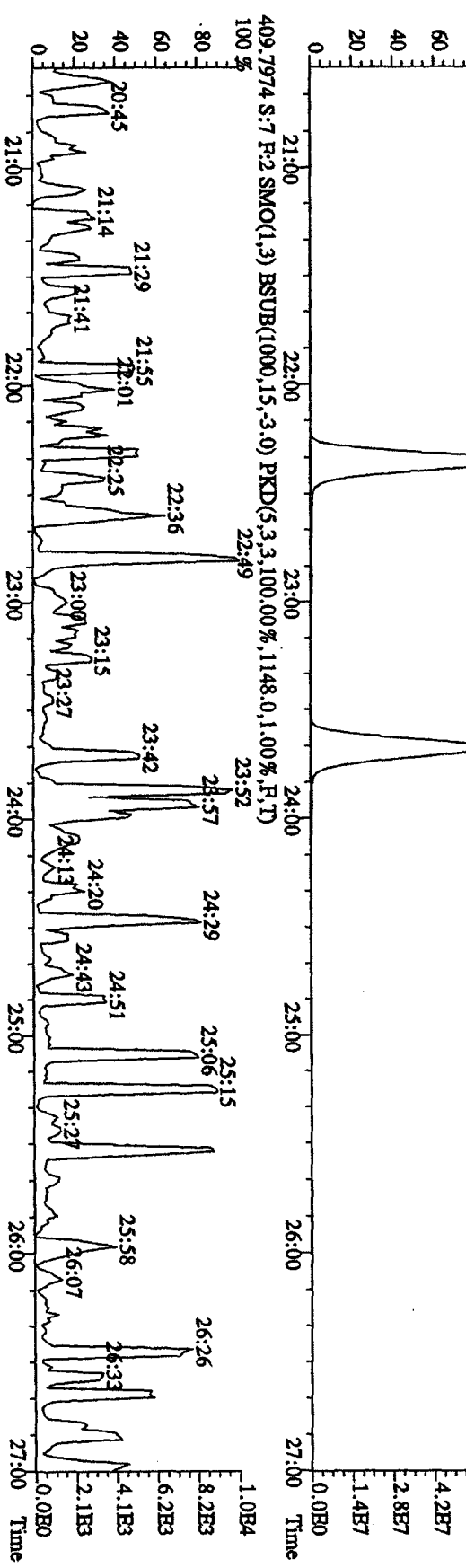
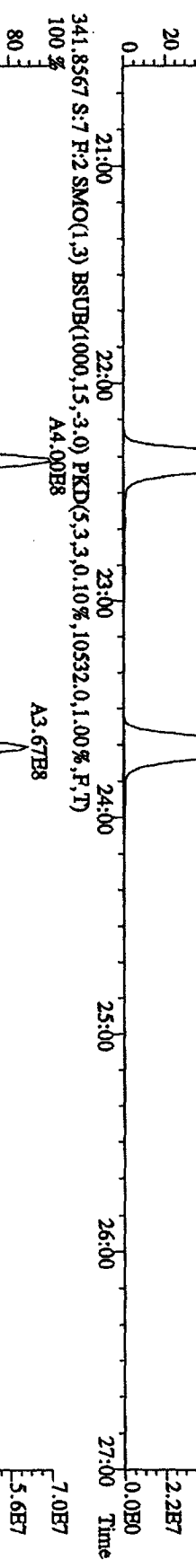
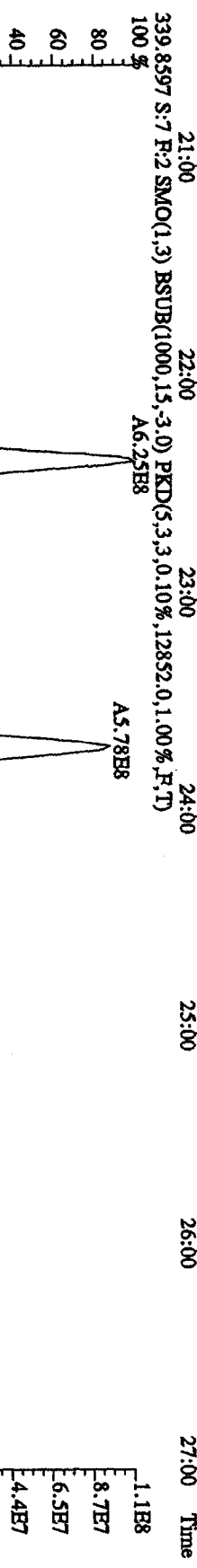
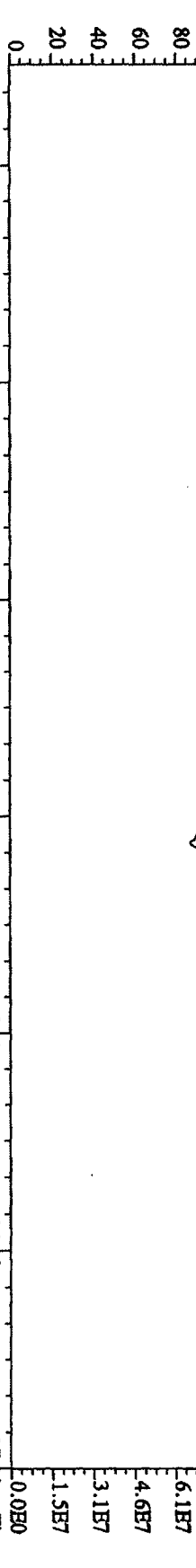
File: 27JUL101D5 #1-196 Acq: 27-JUL-2010 12:22:47 GC HI + Voltage SIR 70SE  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES  
 457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,13096,0,1,00%,F,T)  
 100% A4.30E8



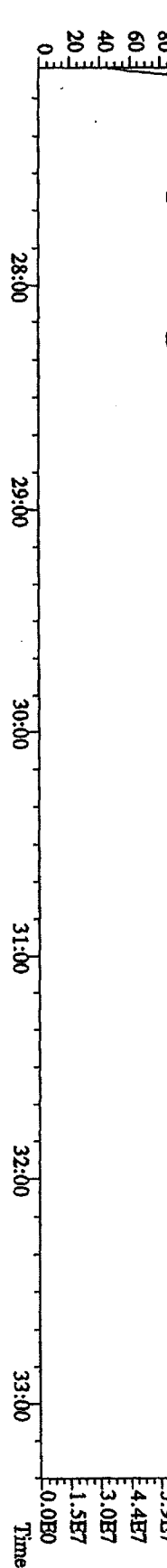
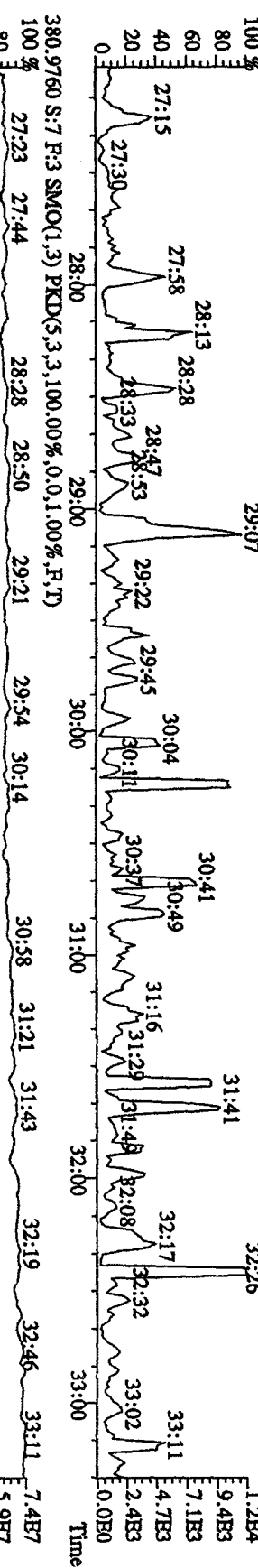
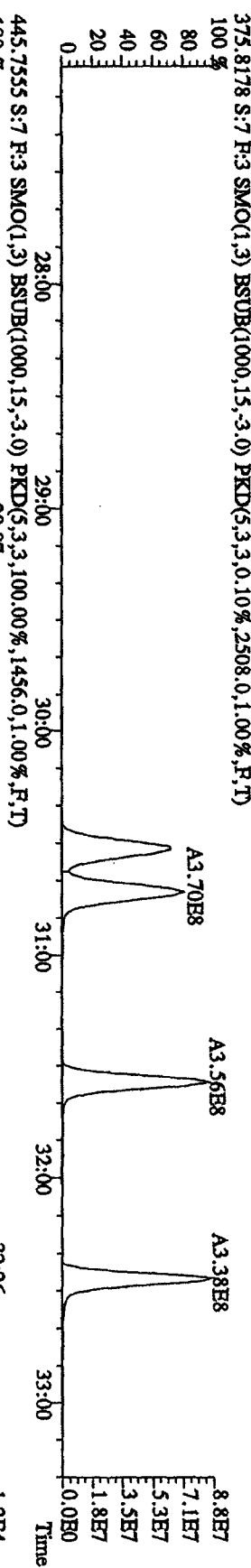
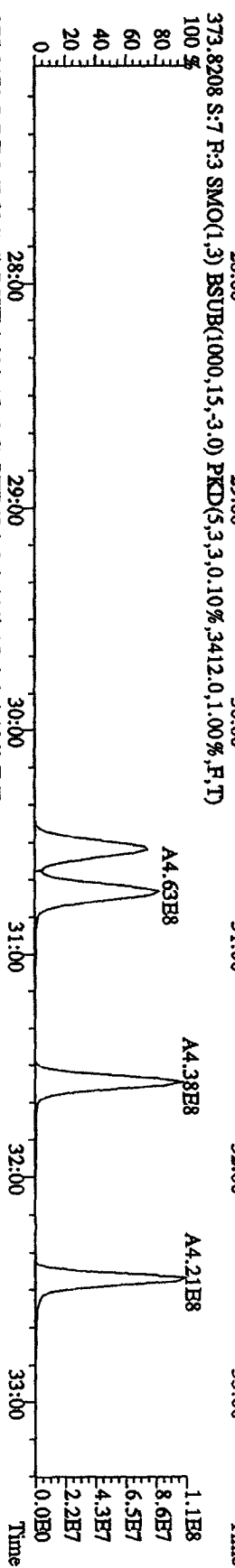
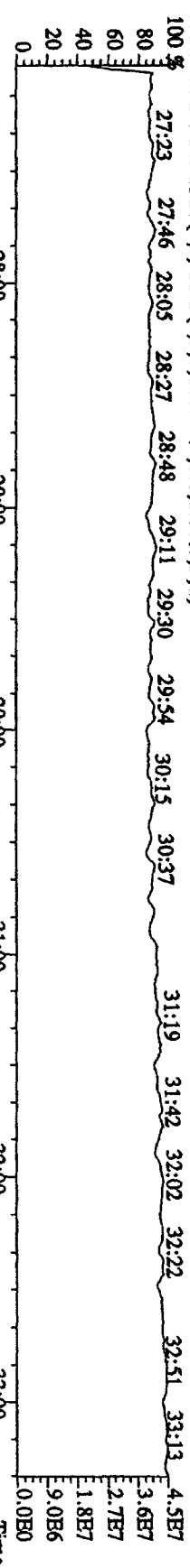
File: 27JL101D5 #1-382 Acq: 27-JUL-2010 12:22:47 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES



File: 27IL101D5 #1-403 Acq: 27-JUL-2010 12:22:47 GC: EI+ Voltage: SIR 70SE  
 Sample#7 Text: ST0727B :CS4 10DXN337 Exp: DIOXINRES  
 342.9792 S:7 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 20:56 21:18 21:38 22:00 22:32 23:03 23:30 23:51 24:17 24:52 25:13 25:35 25:55 26:39

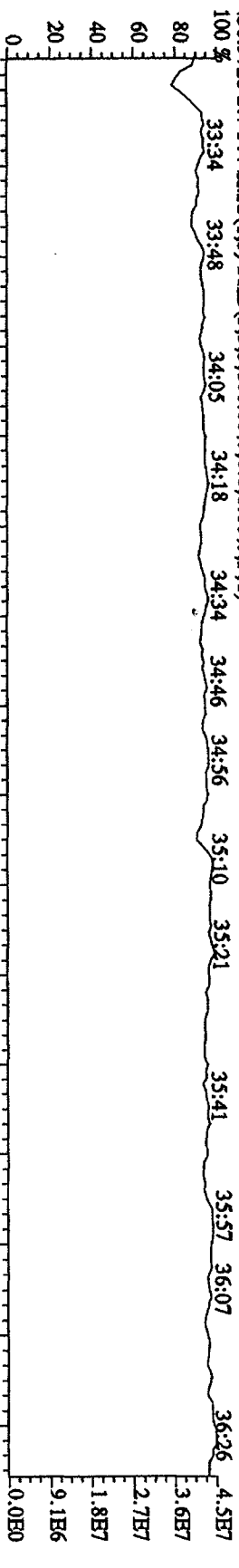


File: 27JUL101D5 #1-406 Acq: 27-JUL-2010 12:22:47 GC EI + Voltage SIR 70SB  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES

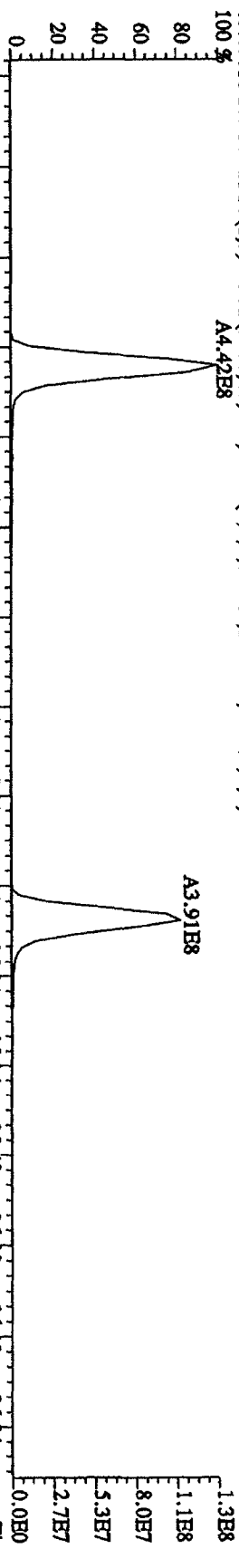


File: 27JL101D5 #1-215 Acq: 27-JUL-2010 12:22:47 GC EI+ Voltage SFR 70SB  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES

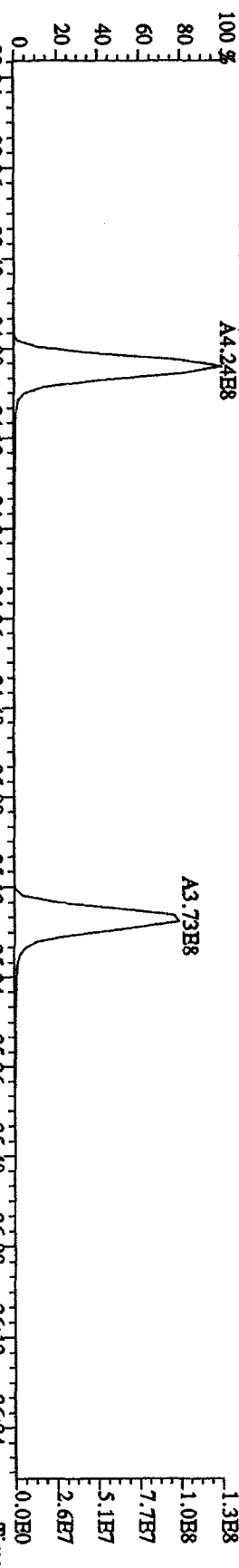
430.9728 S:7 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



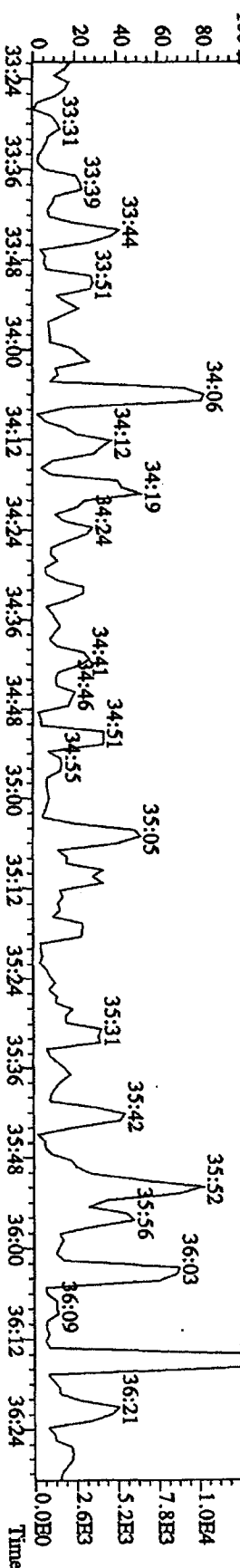
407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11856.0,1.00%,F,T)



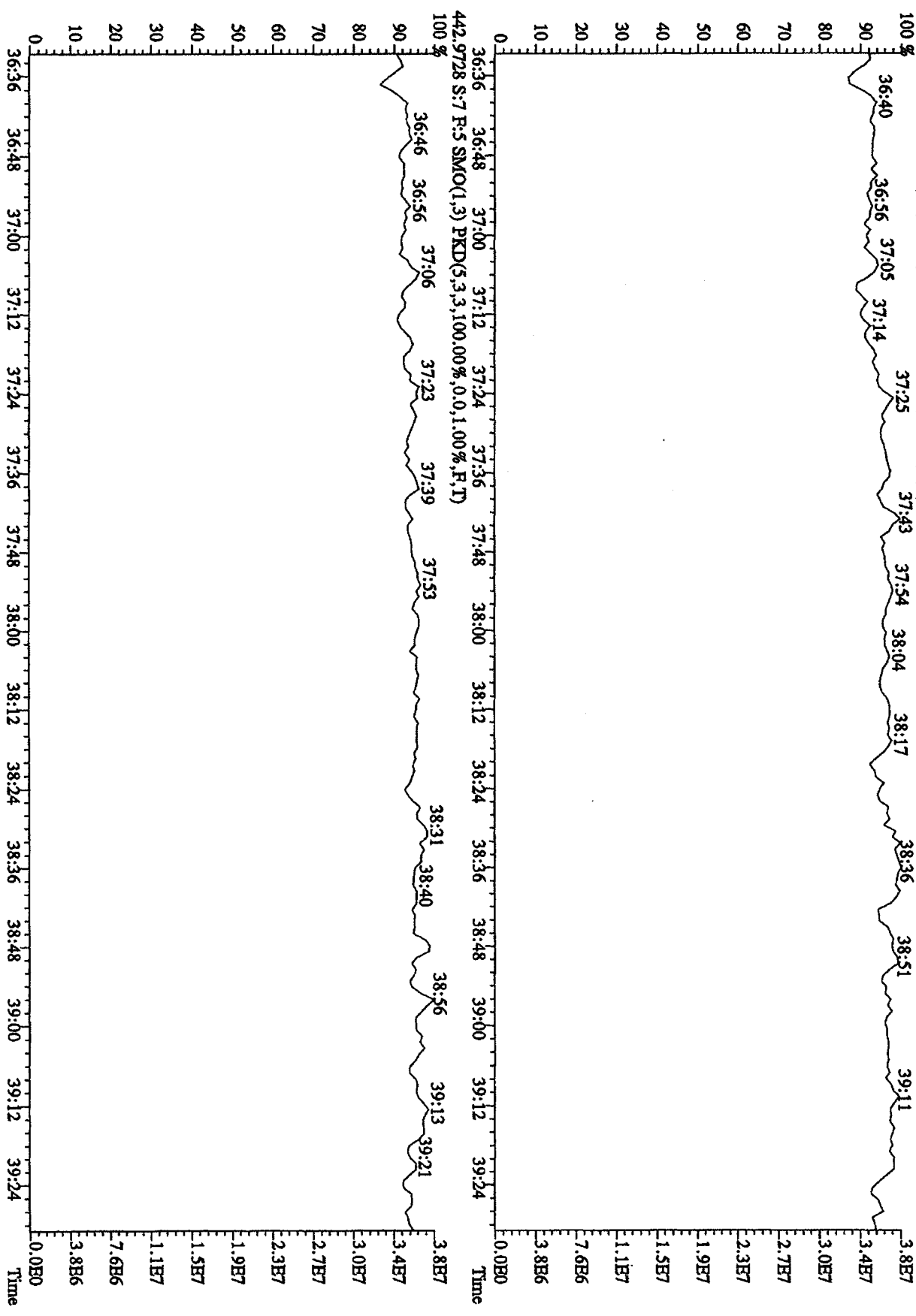
409.7789 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32268.0,1.00%,F,T)



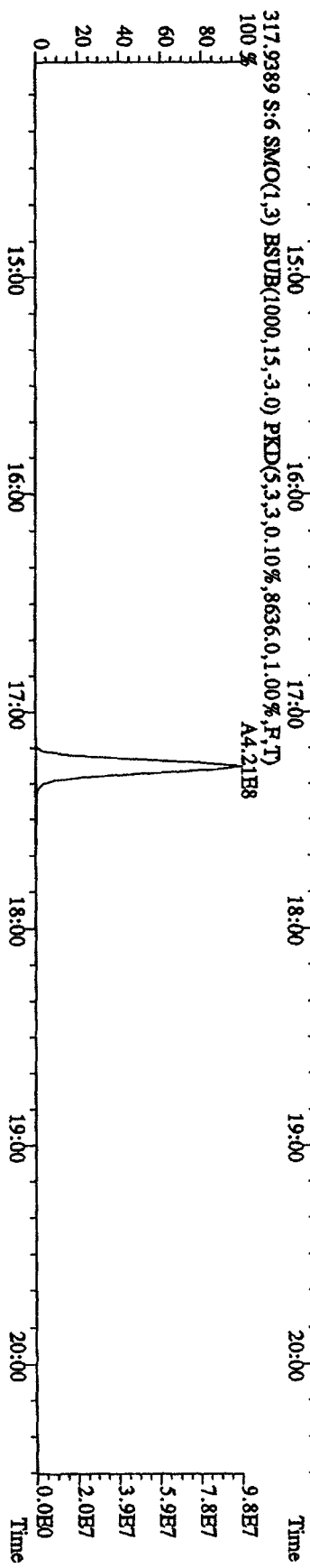
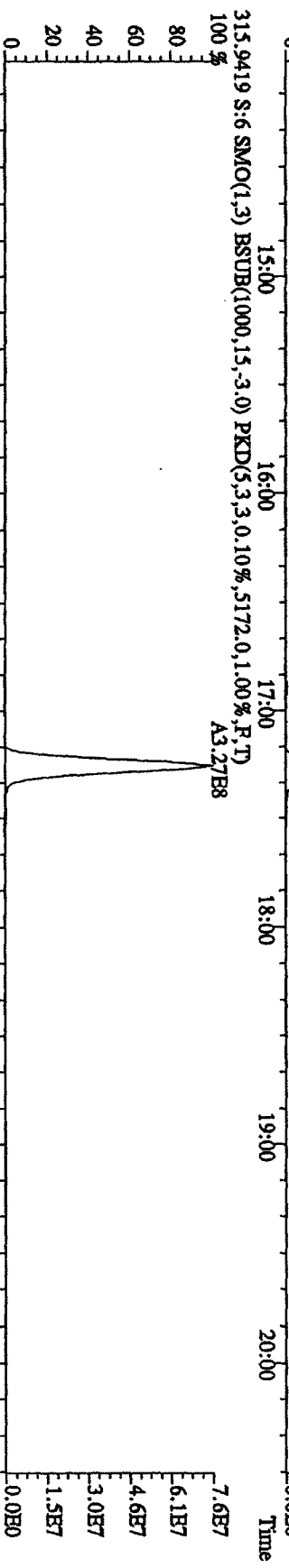
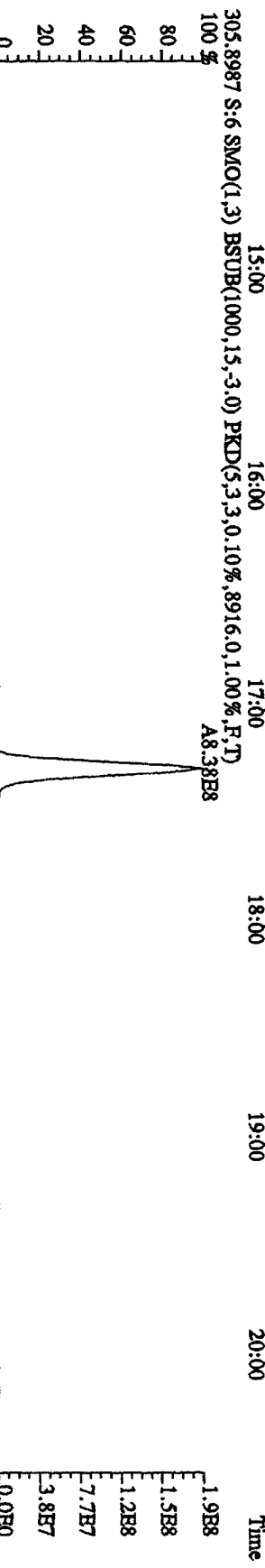
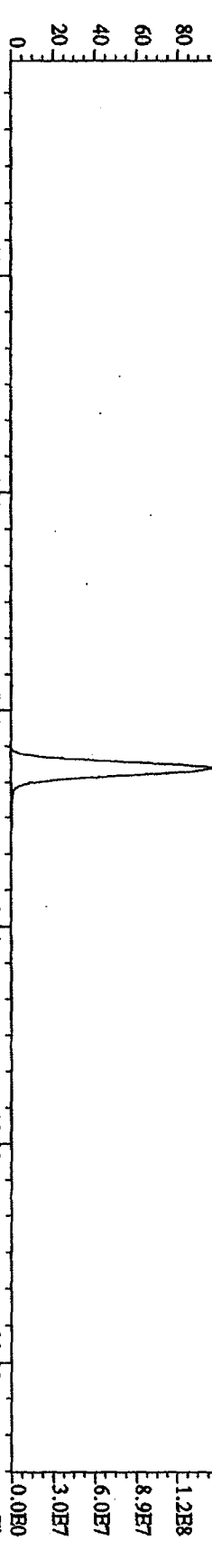
479.7165 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1840.0,1.00%,F,T)



File: 271L101D5 #1-196 Acq: 27-JUL-2010 12:22:47 GC EI + Voltage SIR 70SE  
 Sample#7 Text: ST0727E :CS4 10DXN337 Exp: DIOXINRES  
 454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100%

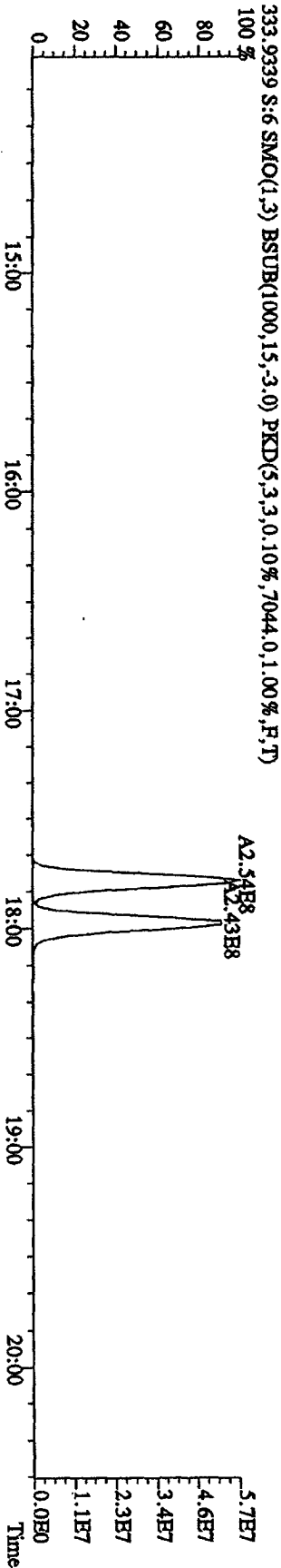
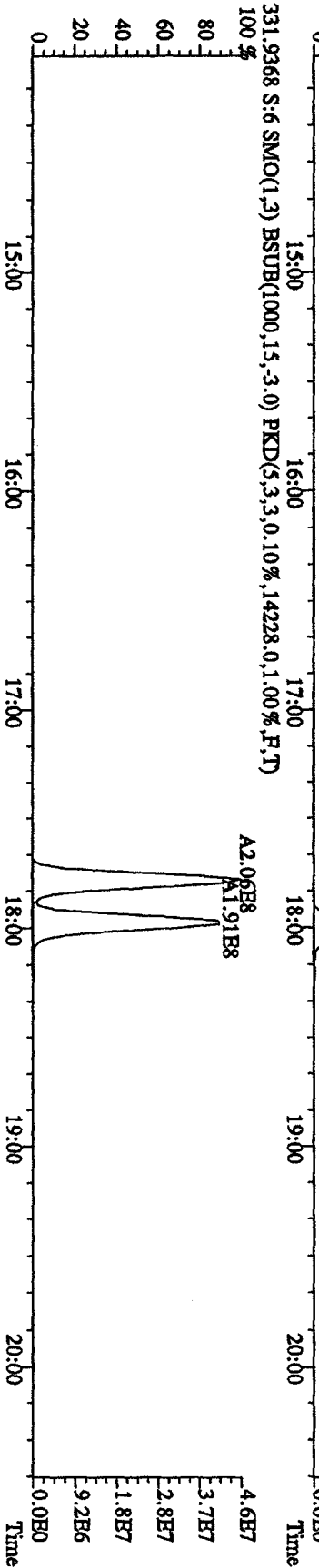
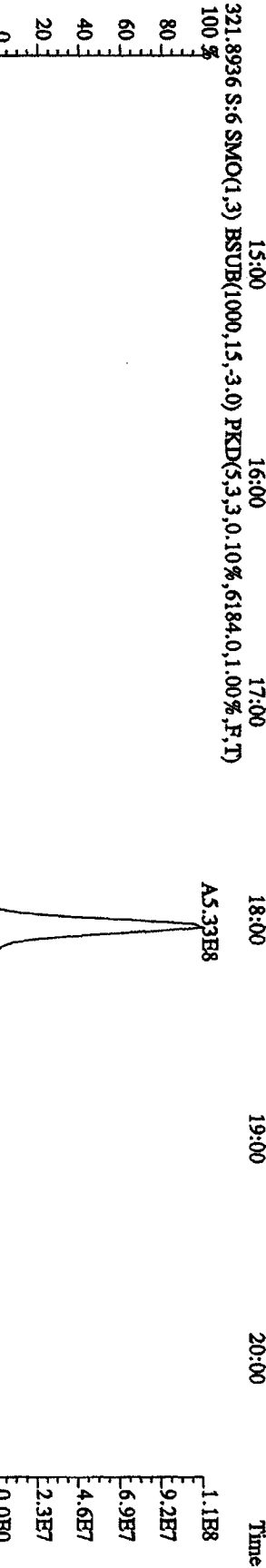
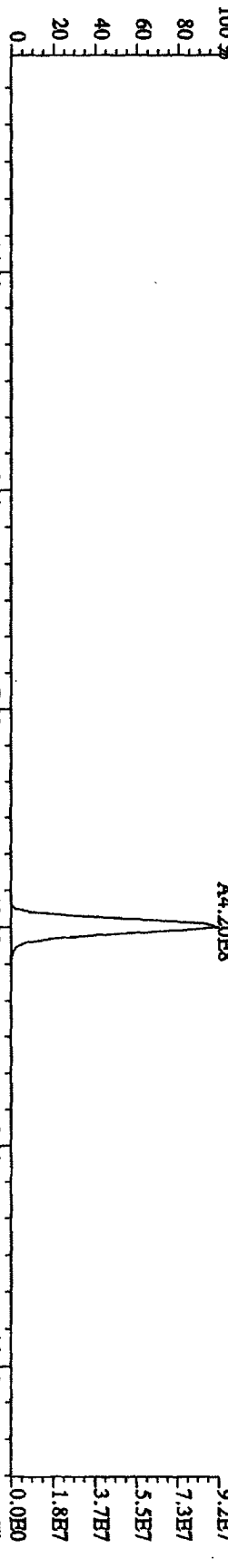


File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 11:38:49 GC: EI+ Voltage: SIR 70SE  
 Sample #6 Text: ST0727D : CSS 10DXN339 Exp: DIOXINES  
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6976.0,1.00%,F,T)  
 100%

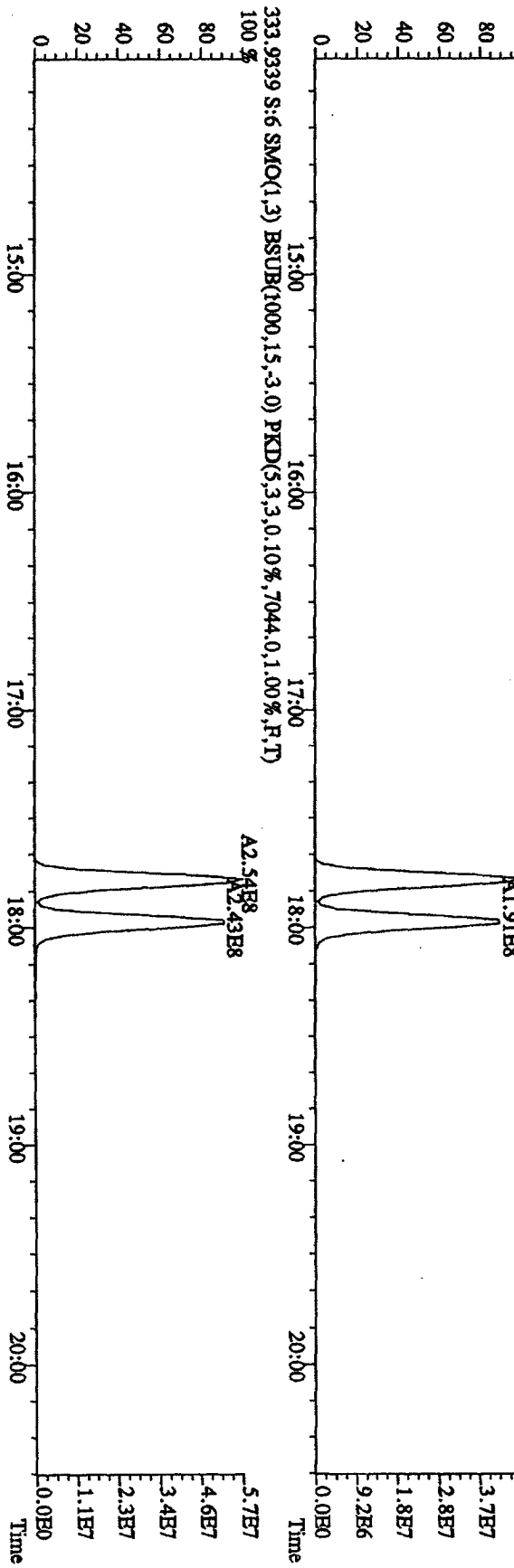
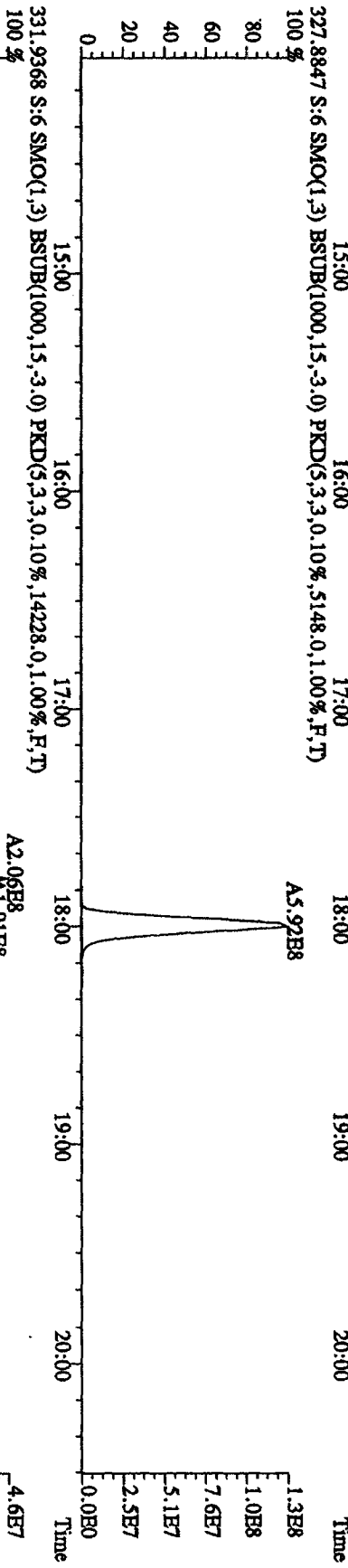
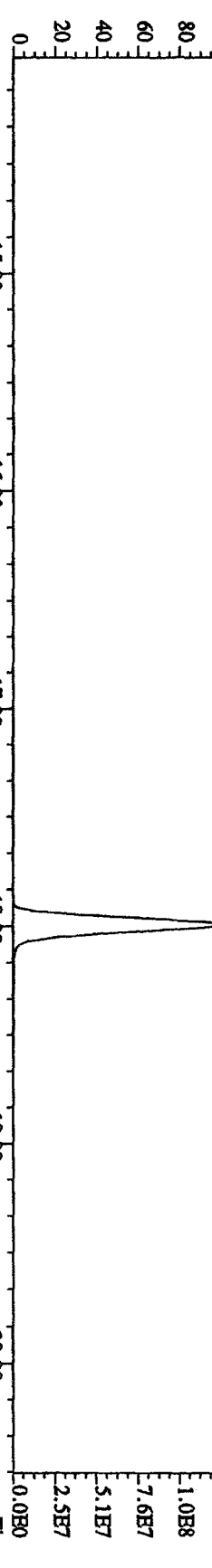




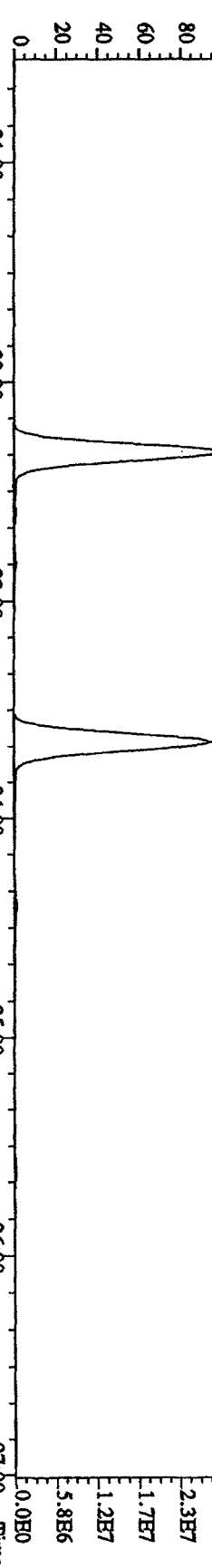
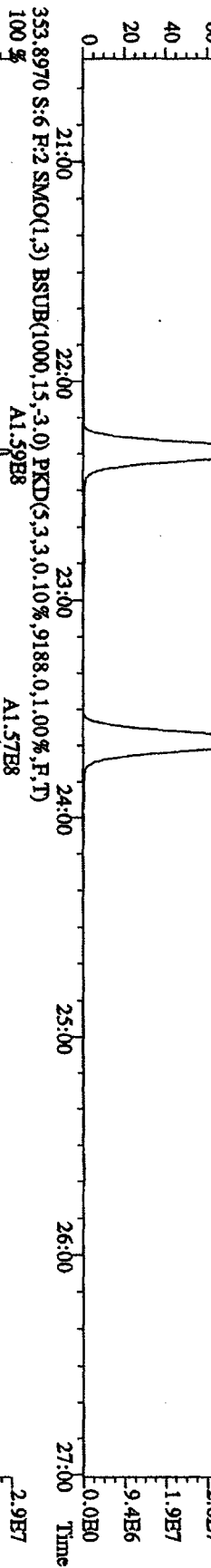
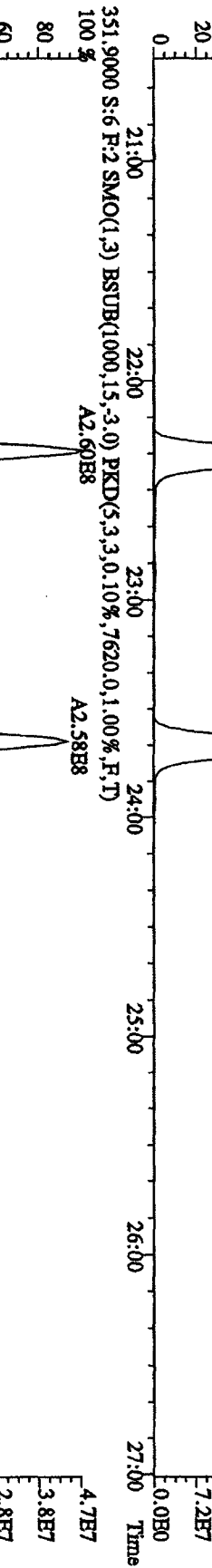
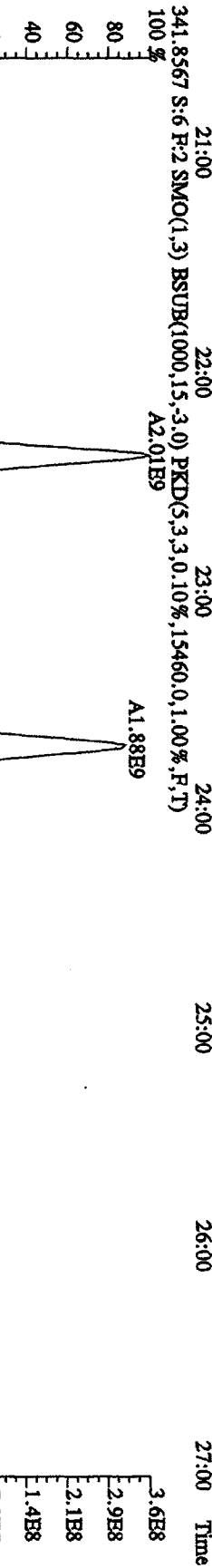
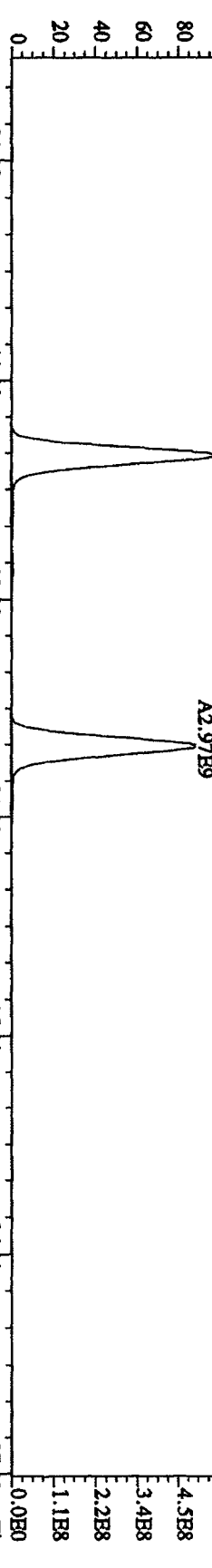
File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 11:38:49 GC EI+ Voltage: SIR 70SE  
 Sample#6 Text: ST0727D :CSS 10DXN339 Exp: DIOXINRES  
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4396,0,1,00%,F,T)



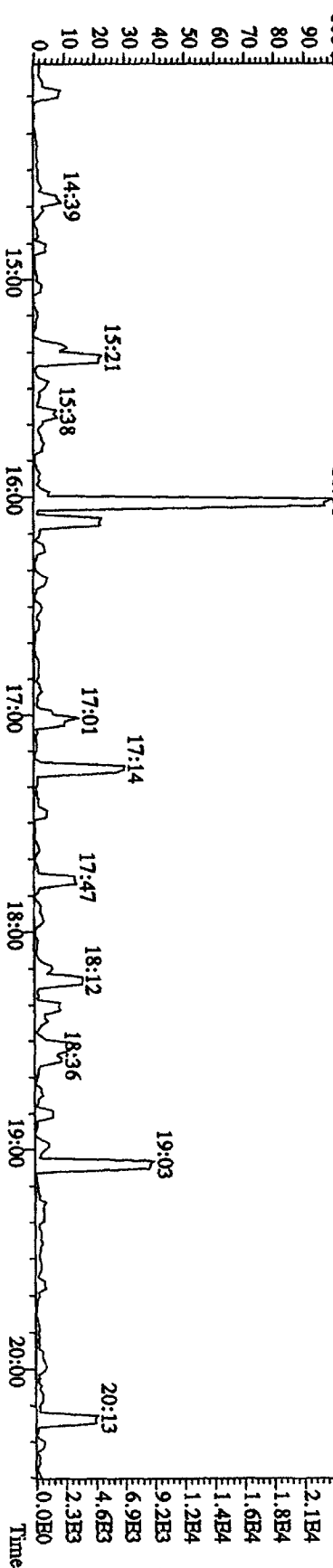
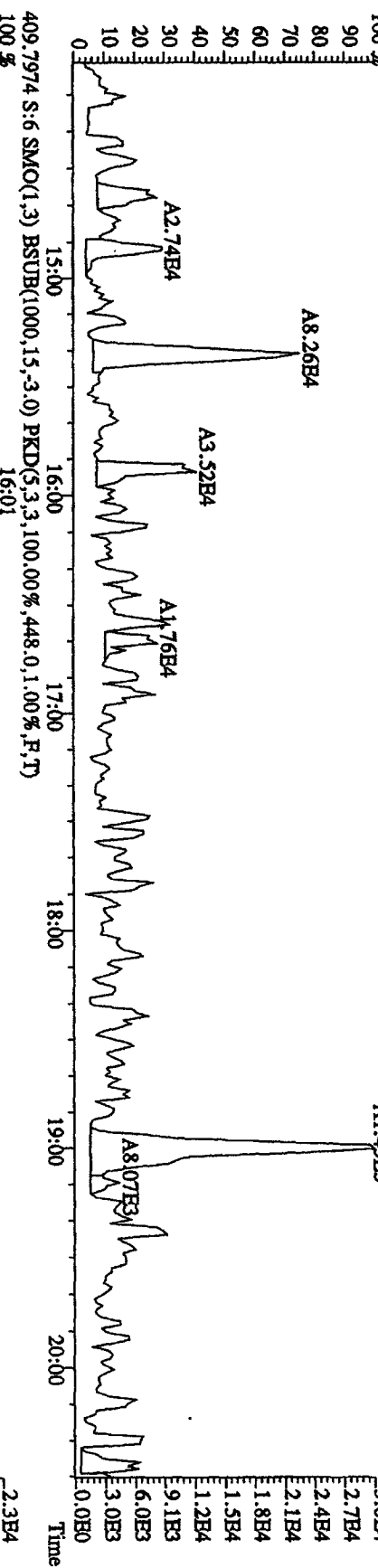
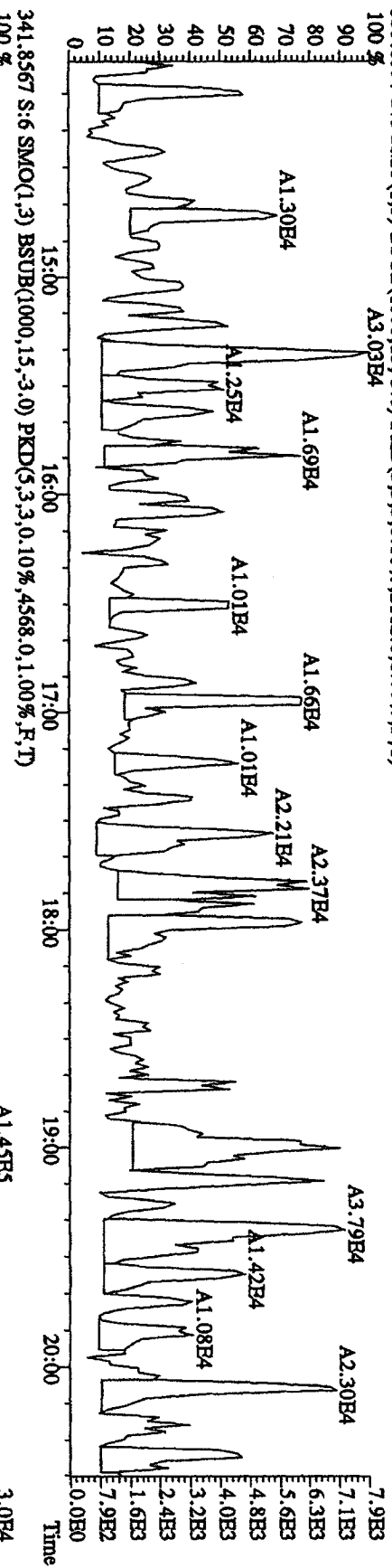
File: 271L101D5 #1-382 Acq: 27-JUL-2010 11:38:49 GC BI + Voltage SIR 70SE  
 Sample#6 Text: ST0727D :CSS 10DXN339 Exp: DIOXINRES  
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,5148,0,1,00%,F,T)  
 100%



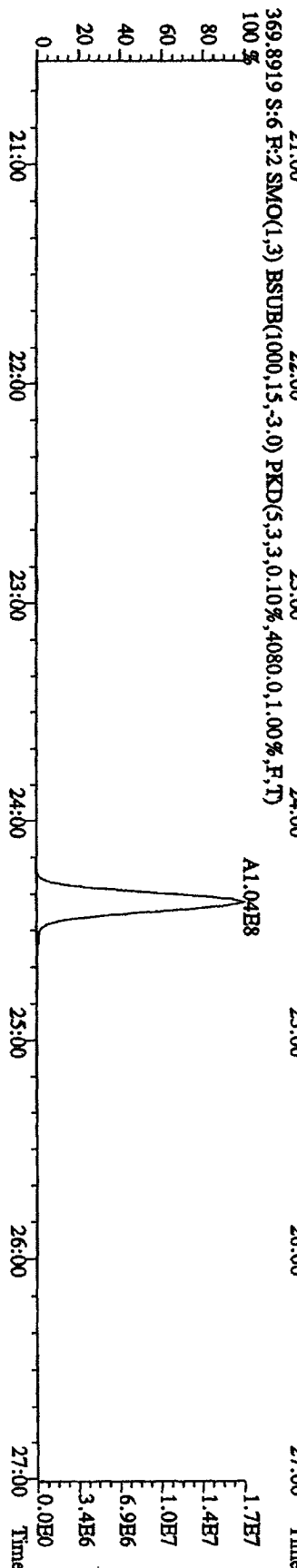
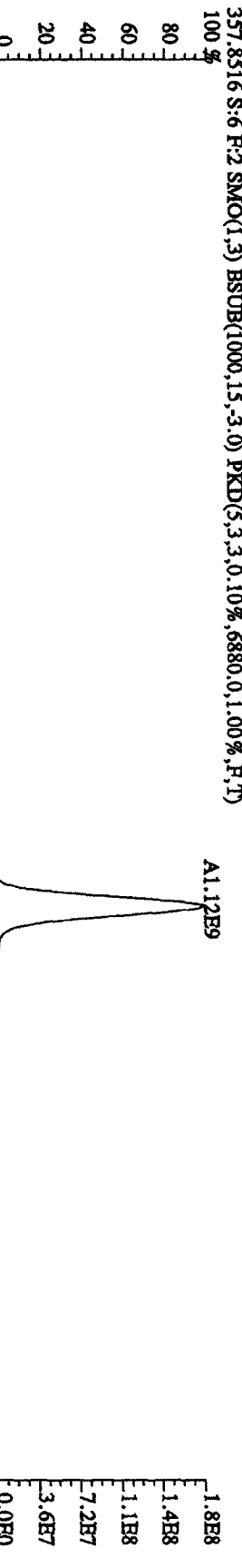
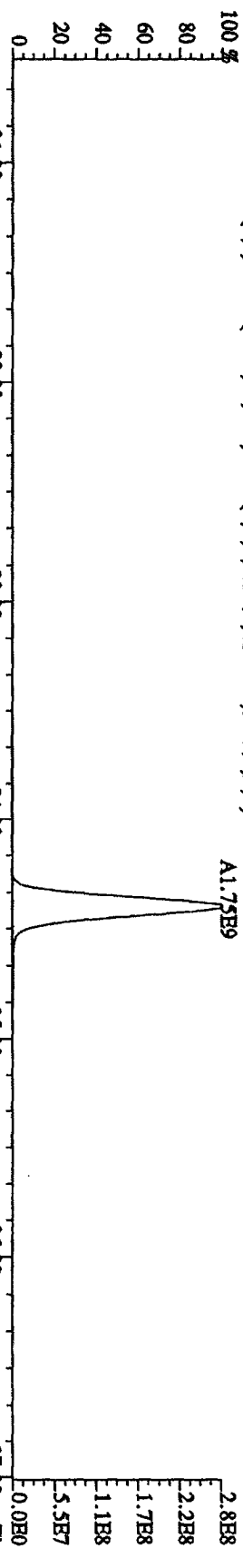
File: 27JL101D5 #1-404 Acq: 27-JUL-2010 11:38:49 GC EI+ Voltage SRR 70SE  
 Sample# 6 Text: ST0727D :CSS 10DXN339 Exp: DIOXINRES  
 339.8597 S: 6 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,24544,0,1.00%,F,T)



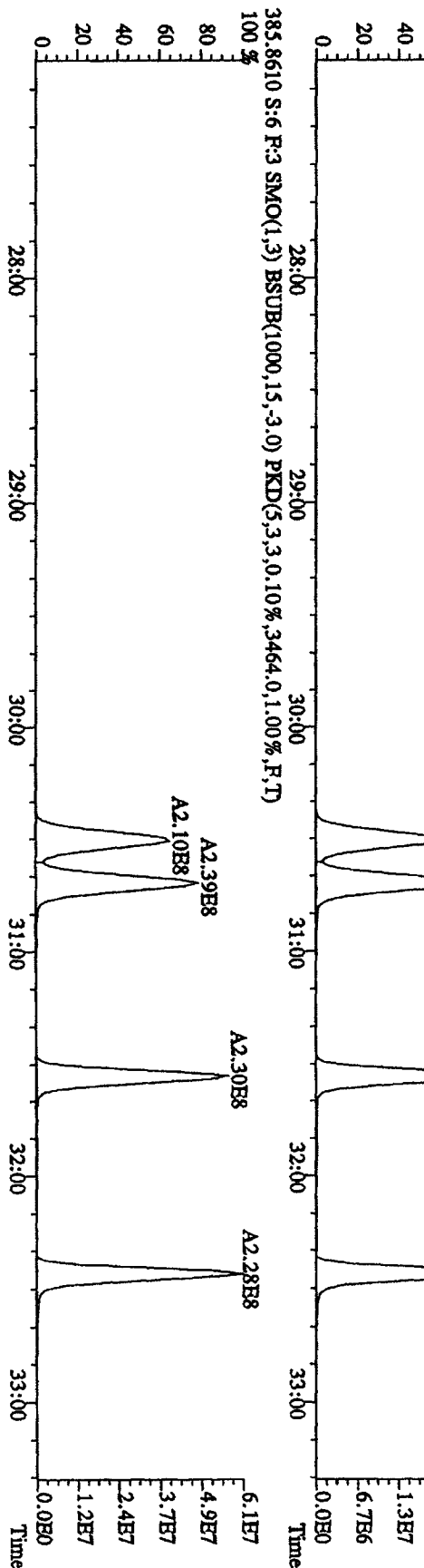
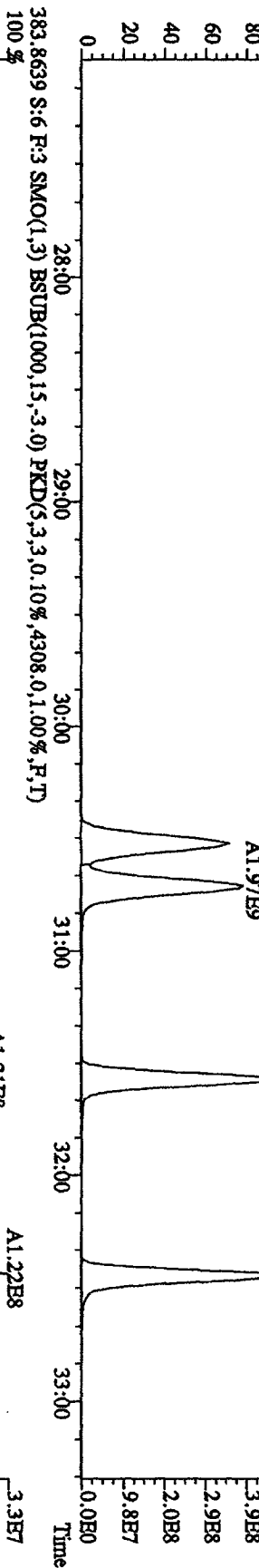
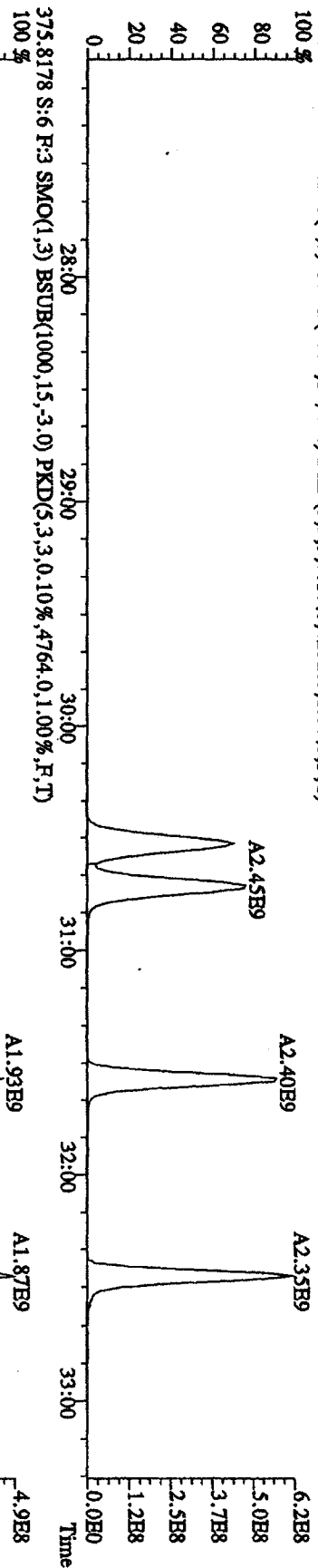
File: 2711101D5 #1-382 Acq: 27-JUL-2010 11:38:49 GC EI + Voltage: SIR 70SE  
 Sample#6 Text: ST0727D :CSS 10DXN339 Exp.: DIOXINRES  
 339.8597 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2112.0,1.00%,F,T)  
 A3.03E4



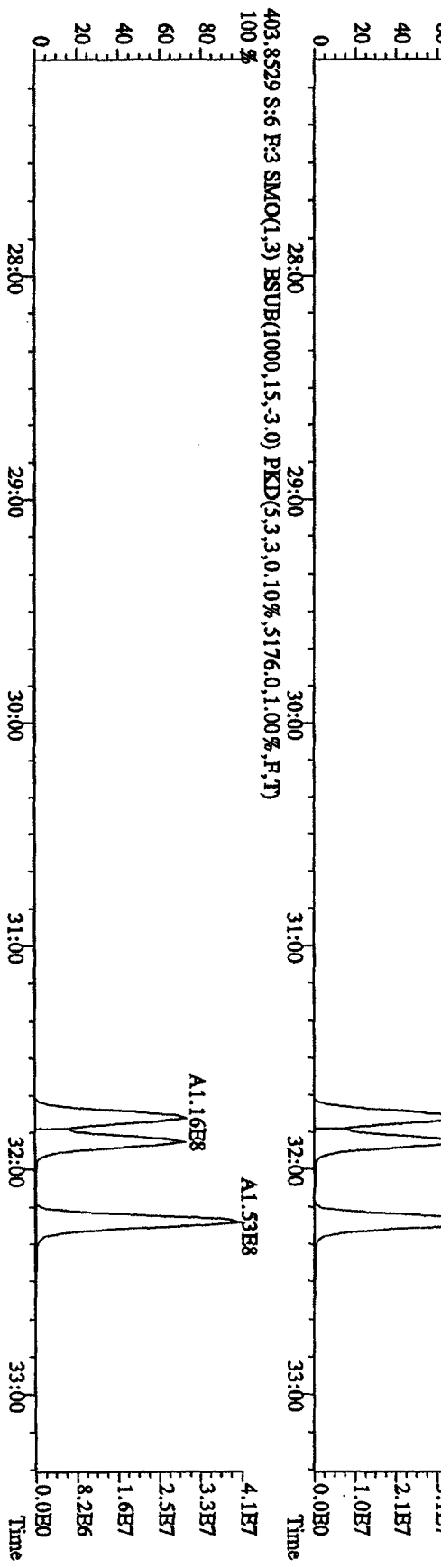
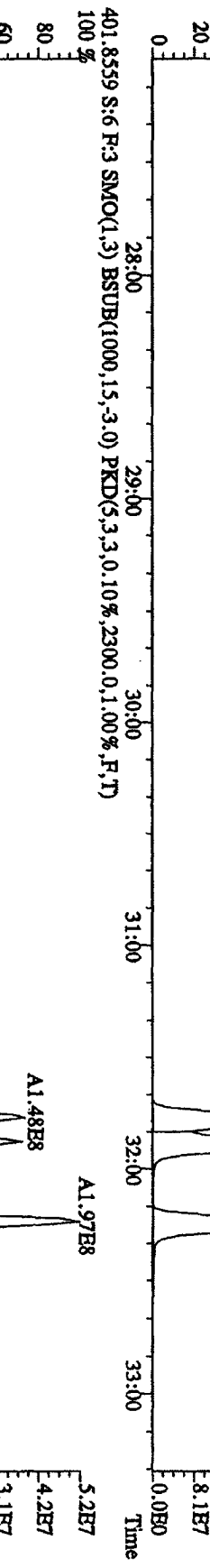
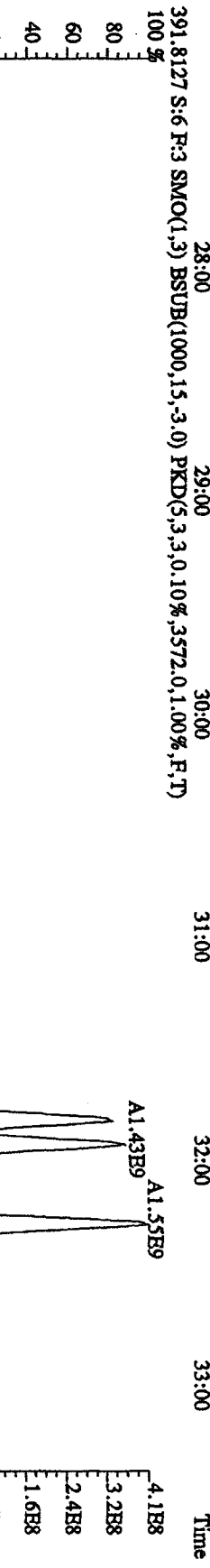
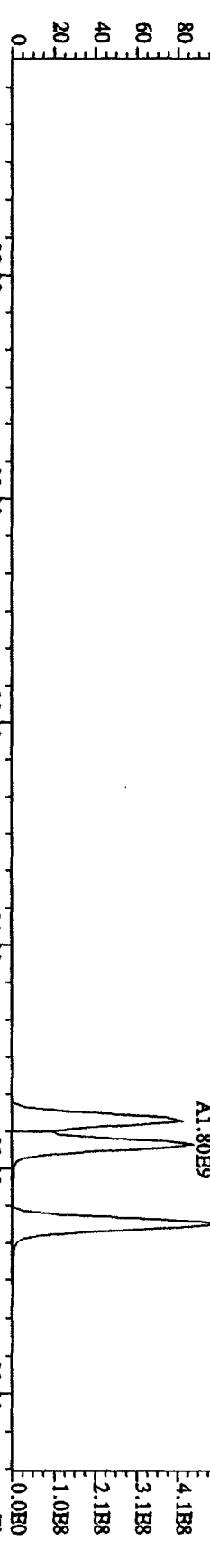
File:27JUL10ID5 #1-404 Acq:27-JUL-2010 11:38:49 GC EI + Voltage SIR 70SB  
 Sample#6 Text:ST0727D :CSS 10DXN39 Exp:DIOXINRES  
 357.8516 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6880,0,1,00%,F,T)  
 100 %



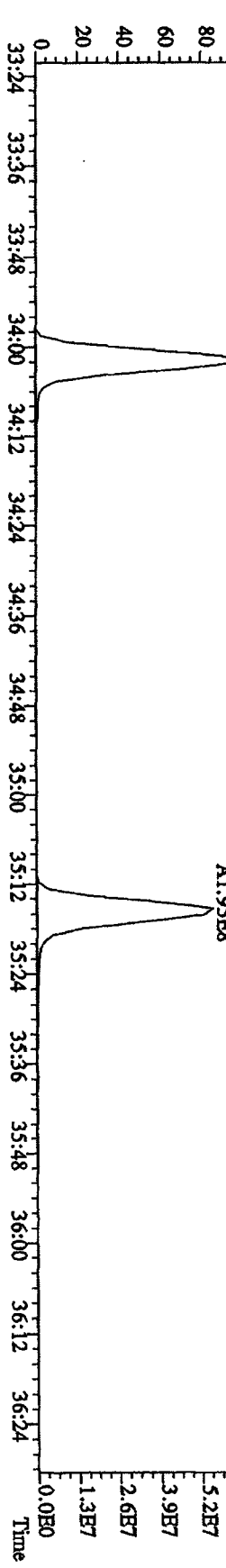
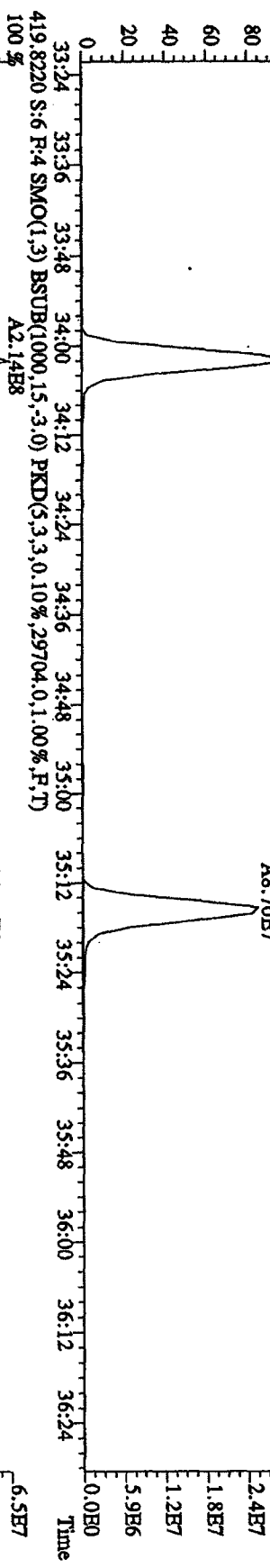
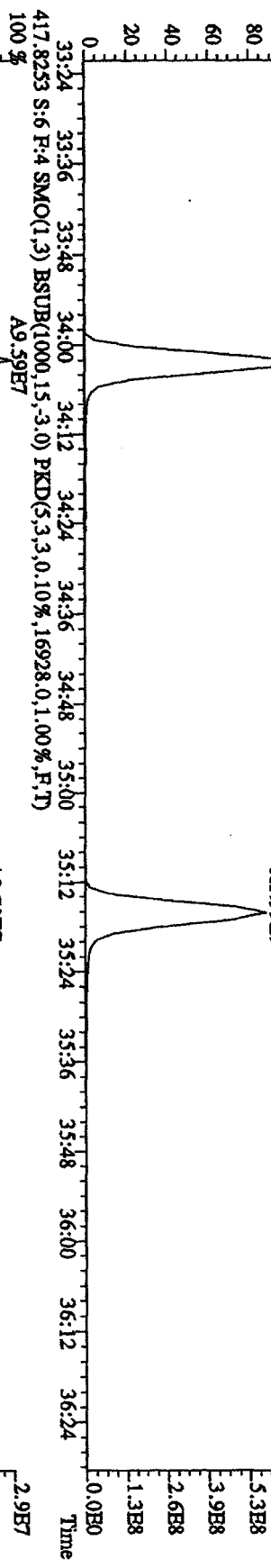
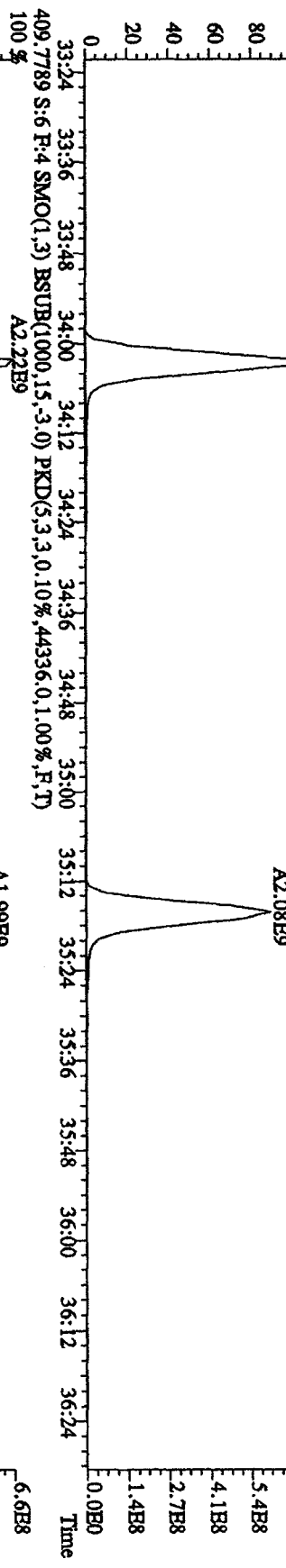
File:27JL101D5 #1-406 Acq:27-JUL-2010 11:38:49 GC HI + Voltage SIR 70SB  
 Sample#6 Text:ST0727D :CSS 10DXN339 Exp:DIOXINRES  
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4252,0,1,00%,F,T)



File: 27IL101D5 #1-406 Acq: 27-JUL-2010 11:38:49 GC HI + Voltage SIR 70SB  
 Sample#6 Text: ST0727D :CSS 10DXN339 Exp: DIOXINRES  
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3176.0,1.00%,F,T)  
 100%

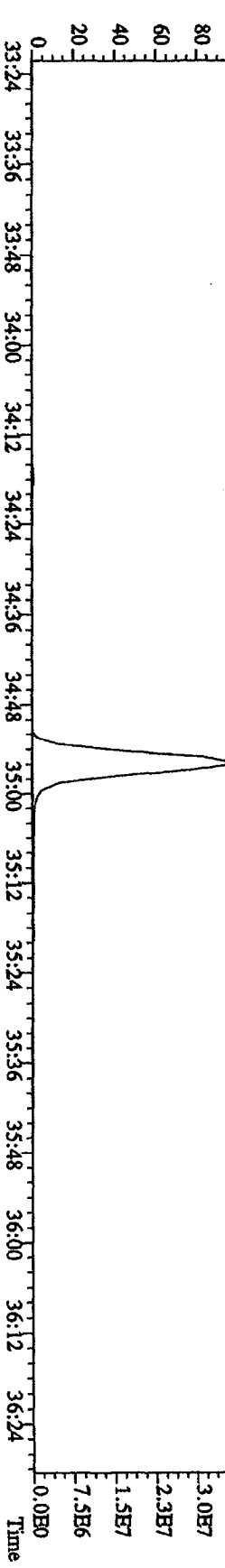
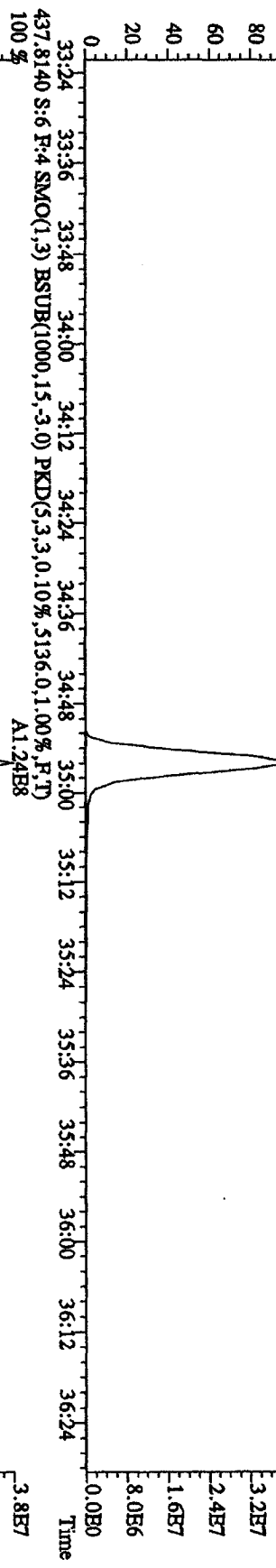
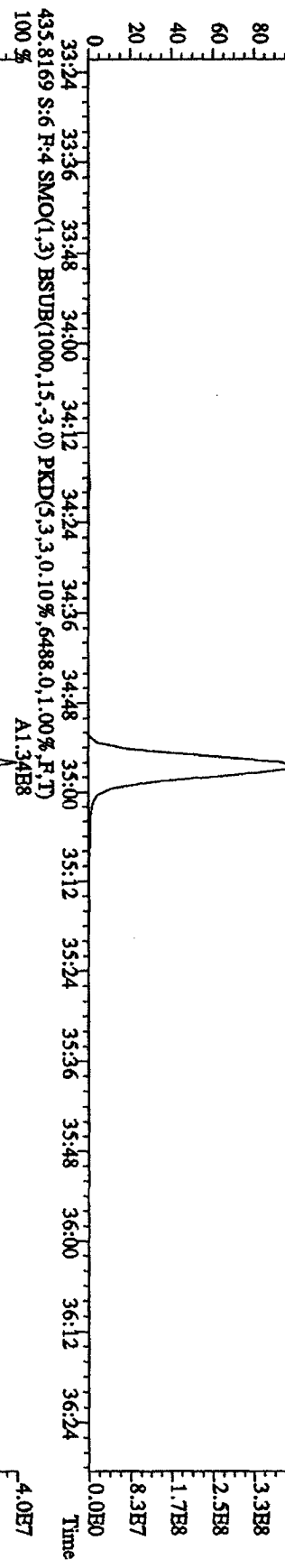
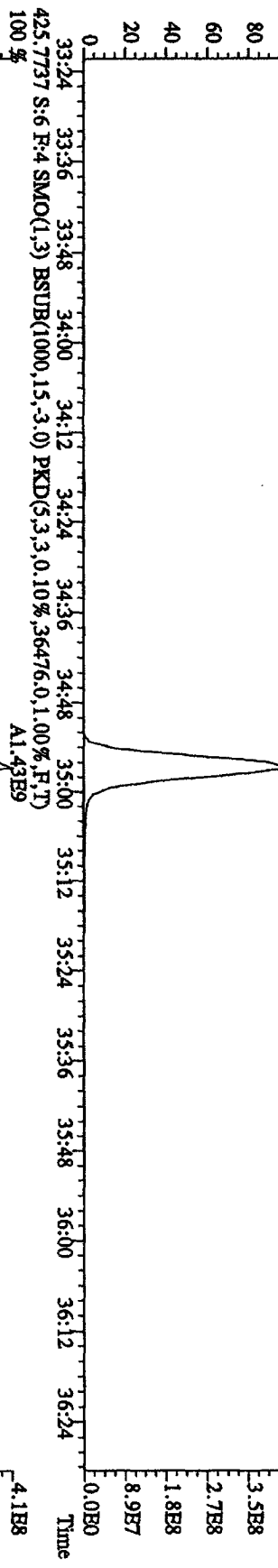


File:27JUL101D5 #1-214 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:ST0727D :CSS10DXN339 Exp:DIOXINRES  
 407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,55360,0.1,00%,F,T)

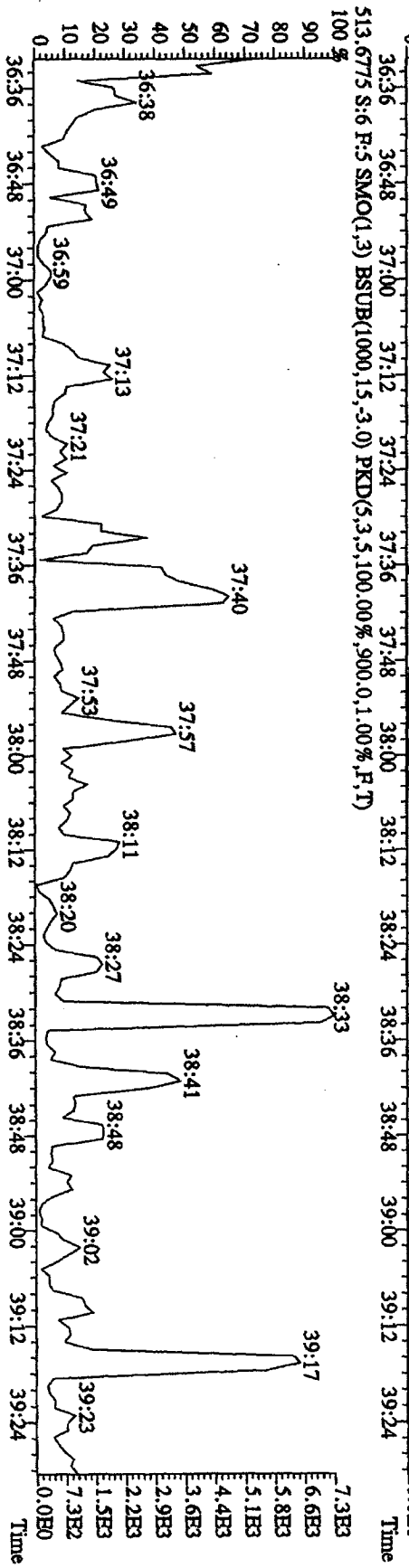
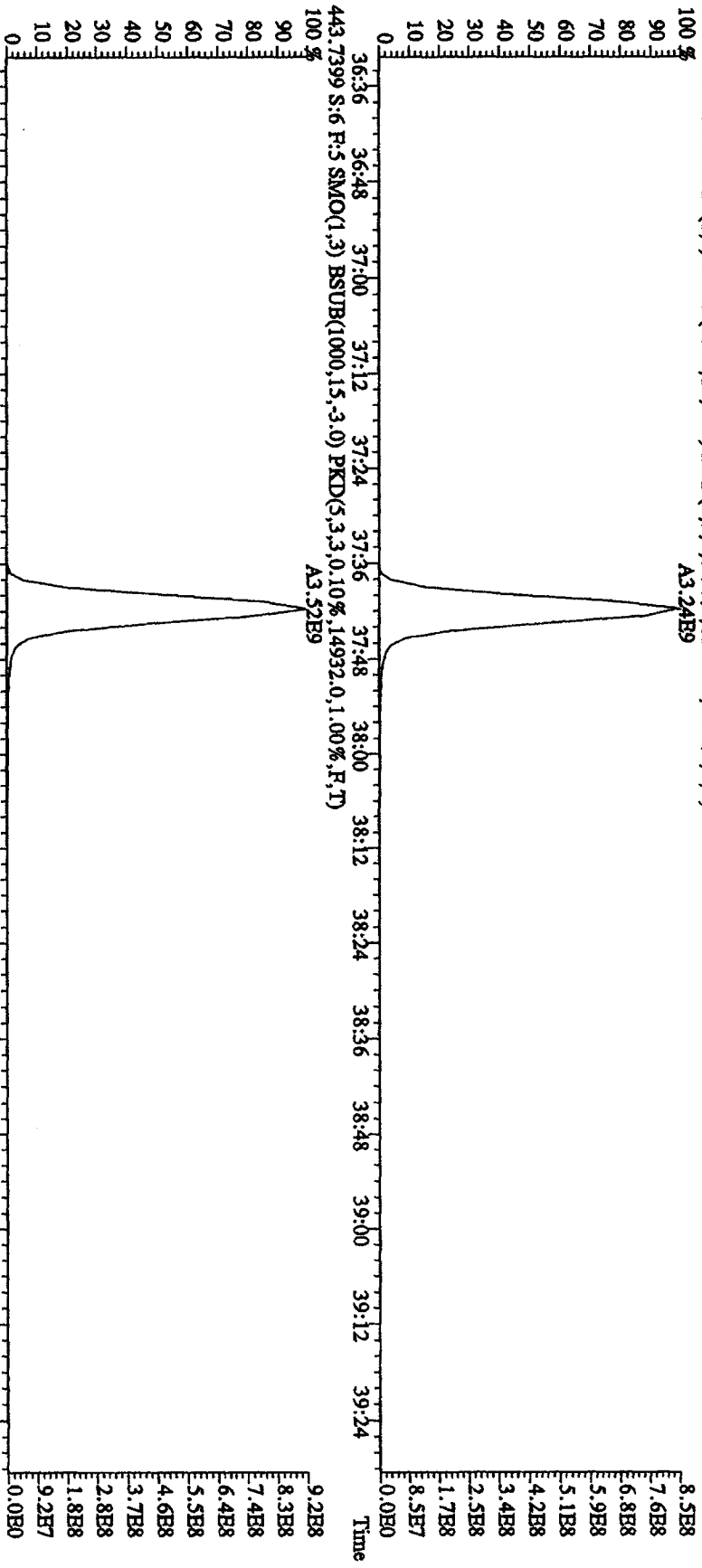




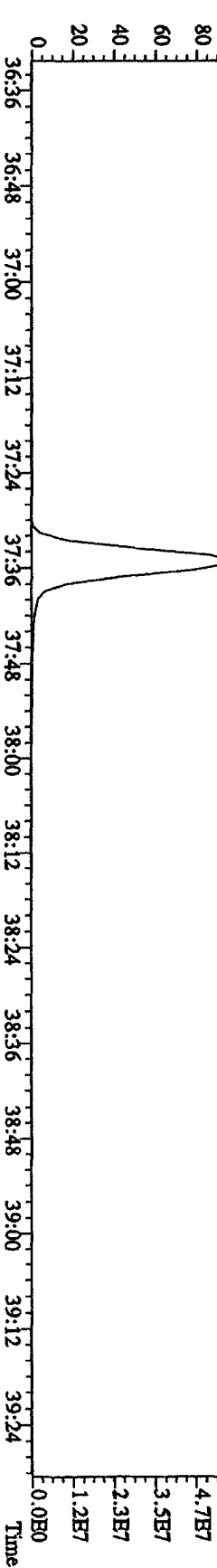
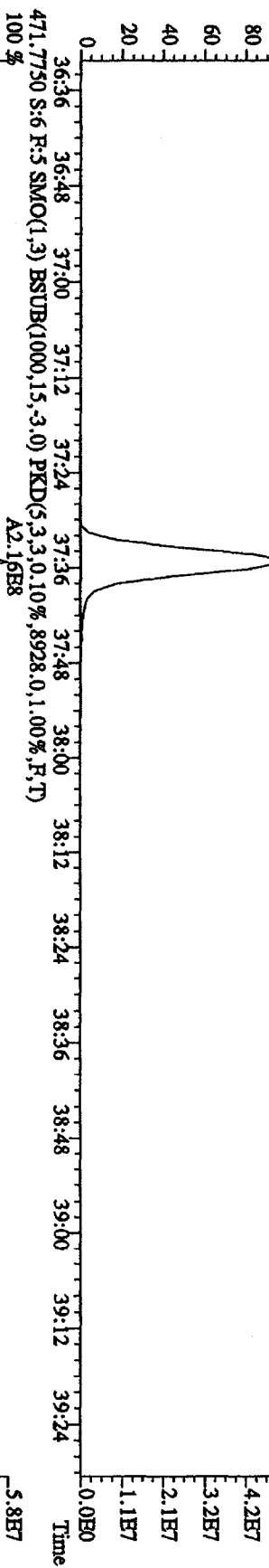
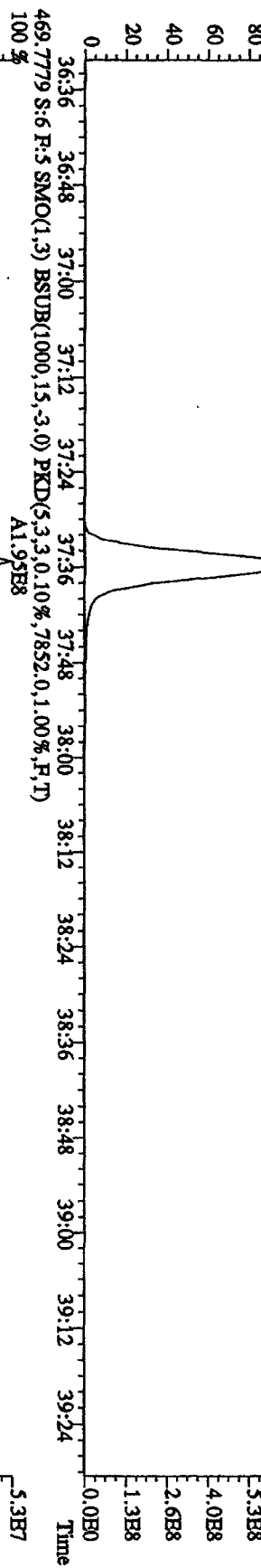
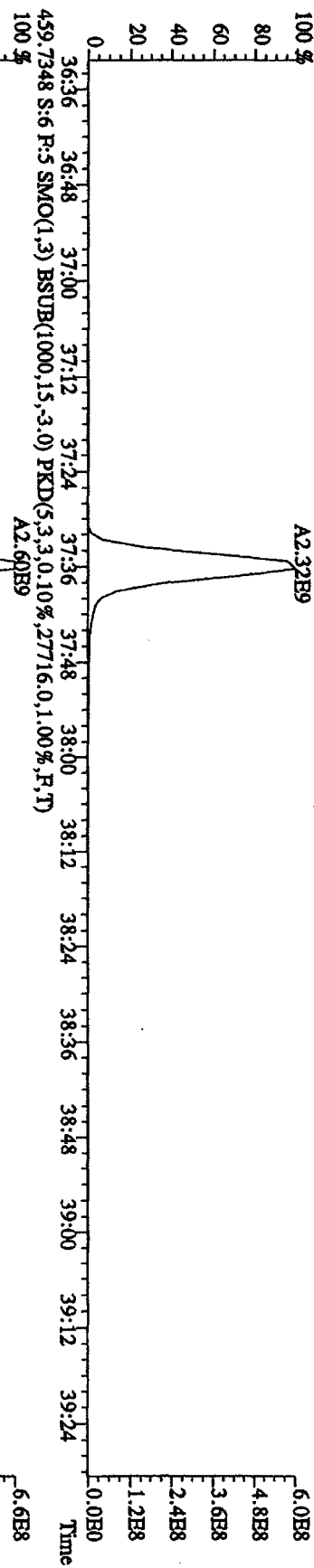
File:271L101D5 #1-214 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:ST0727D :CSS 10DXN39 Exp:DIOXINRES  
 423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,41316.0,1.00%,F,T)  
 100 % A1.50E9



File: 27IL101D5 #1-196 Acq: 27-JUL-2010 11:38:49 GC BI + Voltage SIR 70SE  
 Sample#6 Text: ST0727D :CSS 10DXN339 Exp: DIOXINRES  
 441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,21612,0,1,00%,F,T)  
 100% A3.2#E9

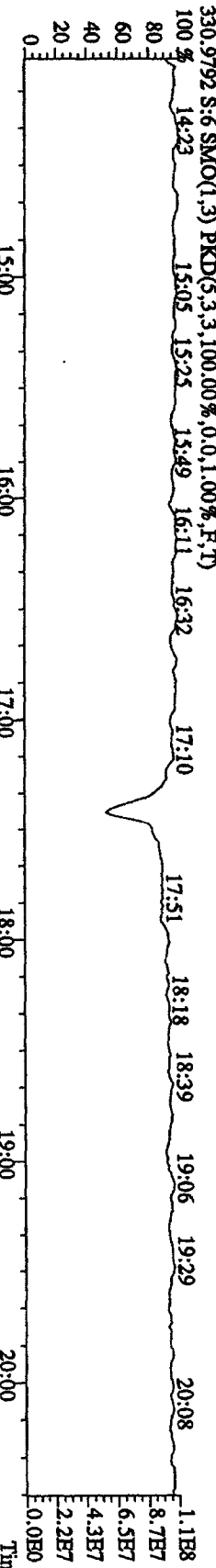
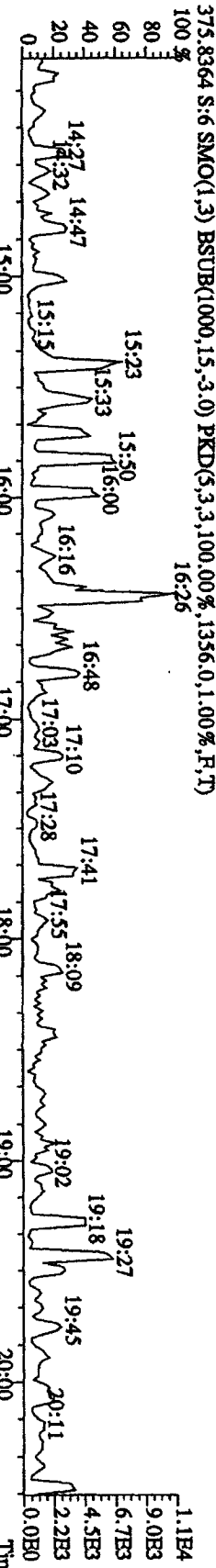
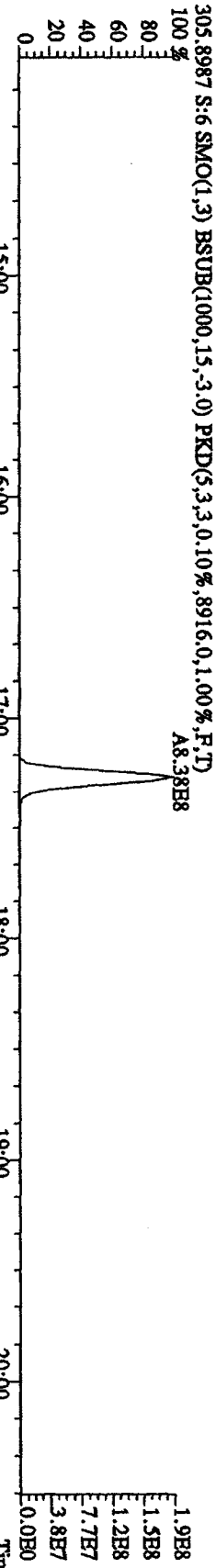
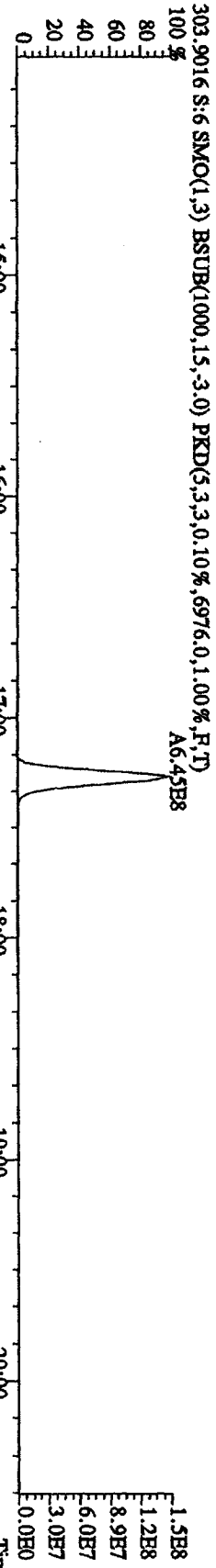
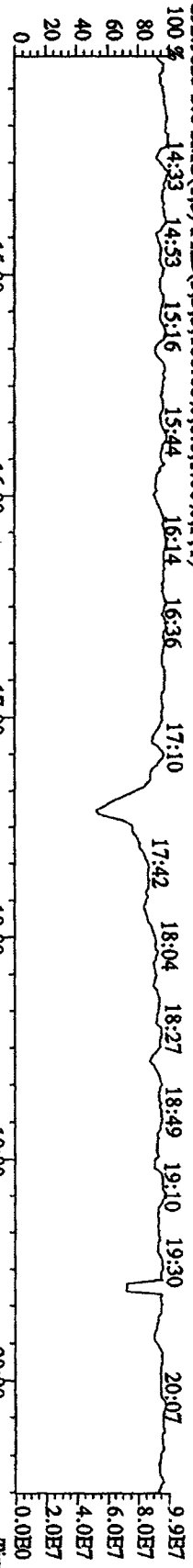


File:27JUL101D5 #1-196 Acq:27-JUL-2010 11:38:49 GC HI + Voltage SIR 70SE  
 Sample#6 Text:ST0727D :CSS 10DXN339 Exp:DIOXINRES  
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,38984,0.1,00%,F,T)  
 100 % A2.32B9



File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 11:38:49 GC HI + Voltage SIR 70SB

Sample#6 Text: ST0727D : CSS 10DXN339 Exp: DIOXINRES

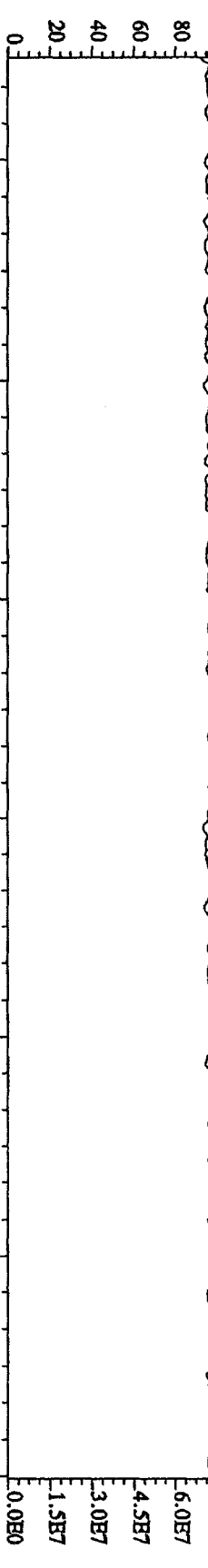


File:27JL101D5 #1-404 Acq:27-JUL-2010 11:38:49 GC HI + Voltage SIR 70SB

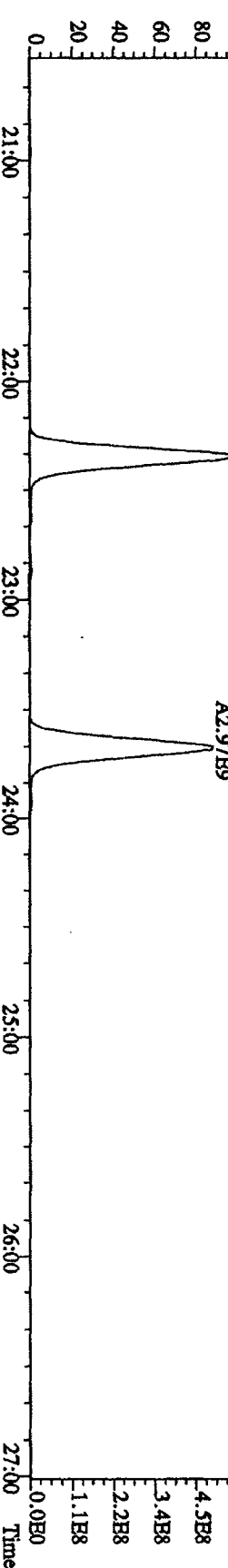
Sample#6 Text:ST0727D :CS5 10DXN39 Exp:DIOXINRES

342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

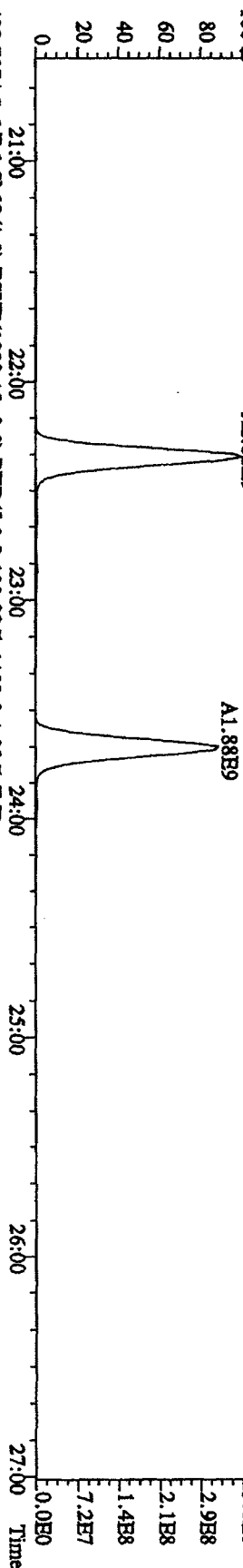
100% 20:52 21:33 21:56 22:16 22:40 23:02 23:23 23:49 24:21 25:03 25:37 25:58 26:18 26:42



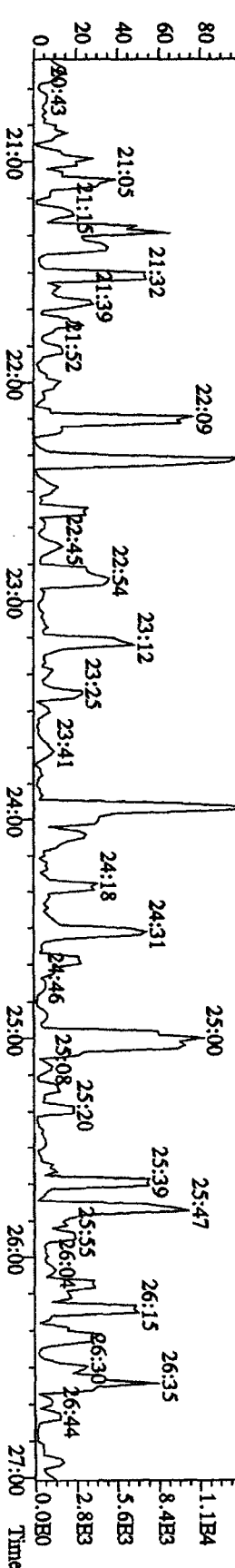
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,24544.0,1.00%,F,T)



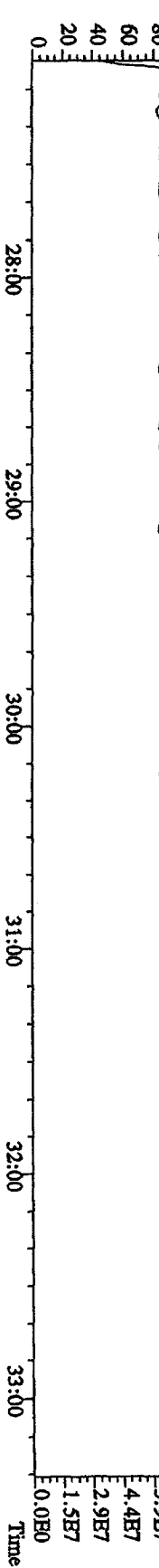
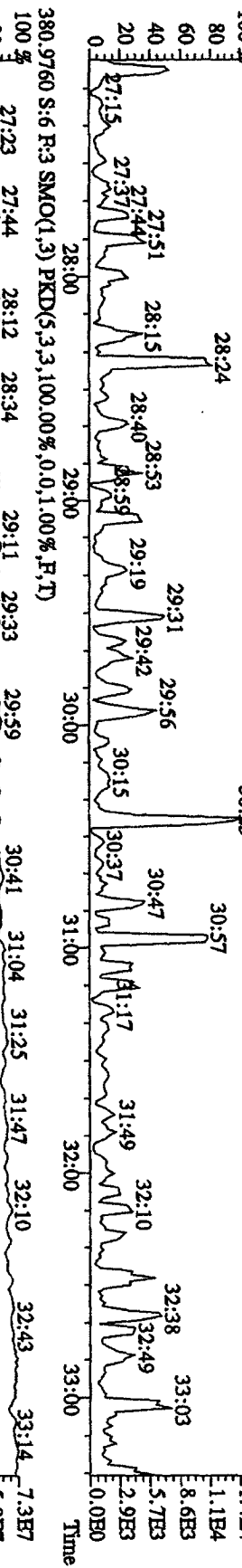
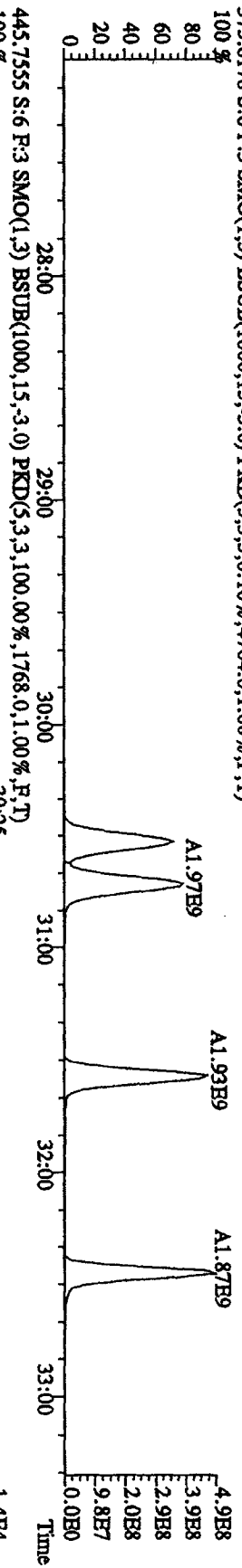
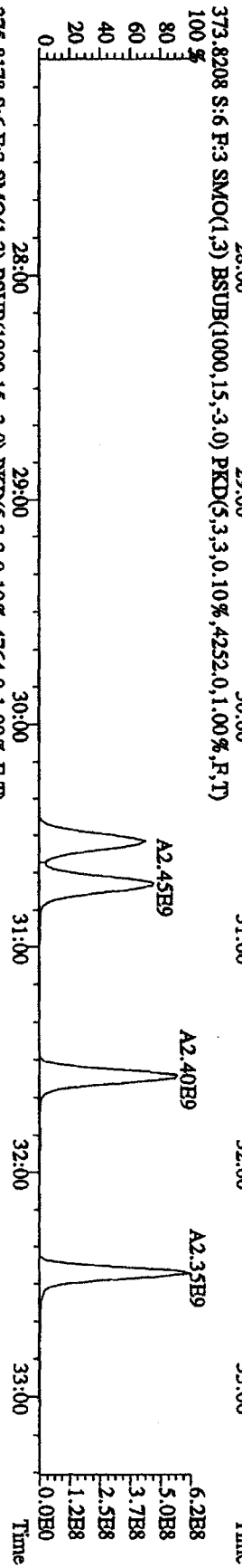
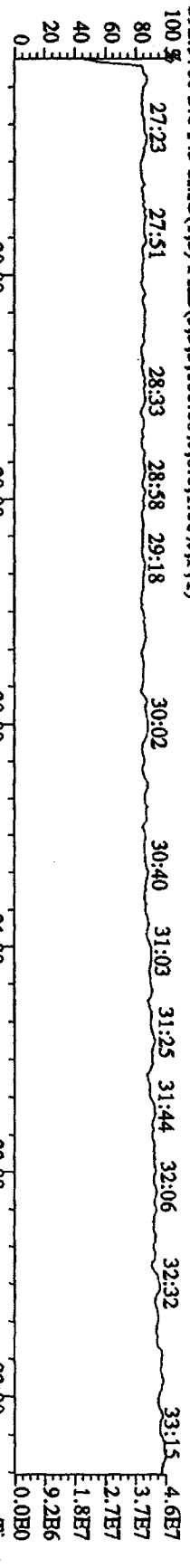
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15460.0,1.00%,F,T)



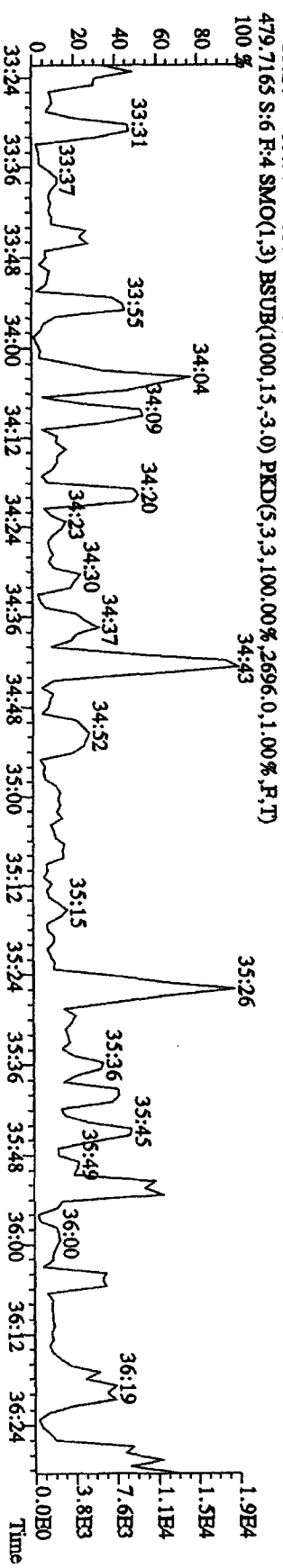
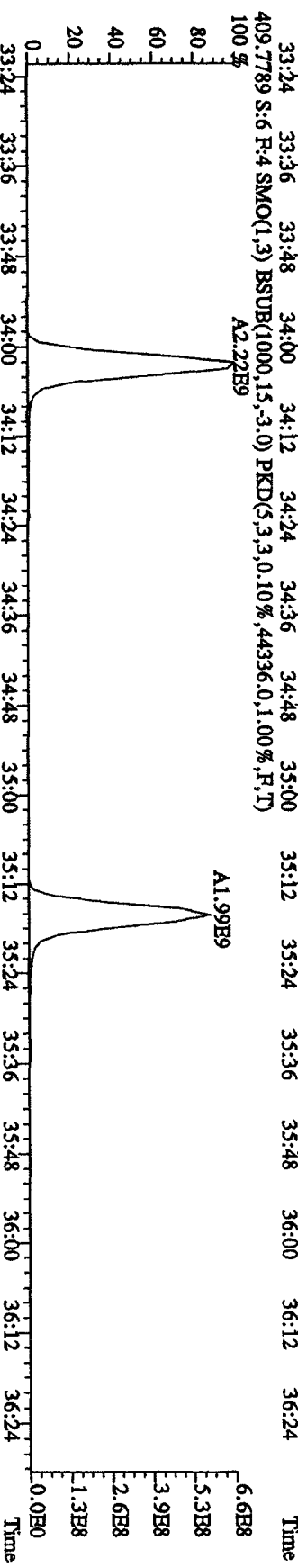
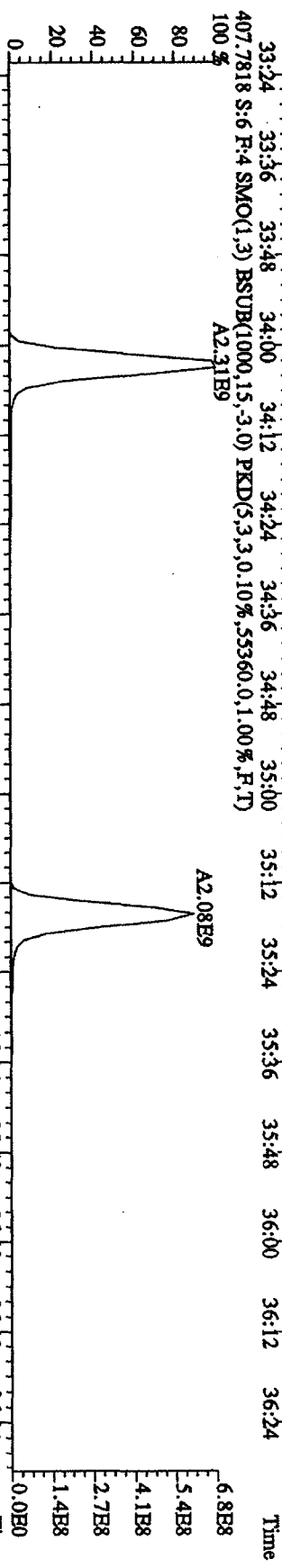
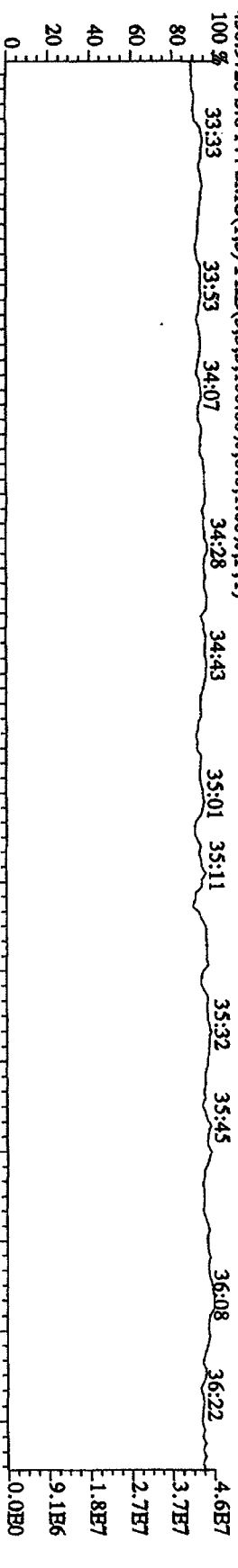
409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1192.0,1.00%,F,T)



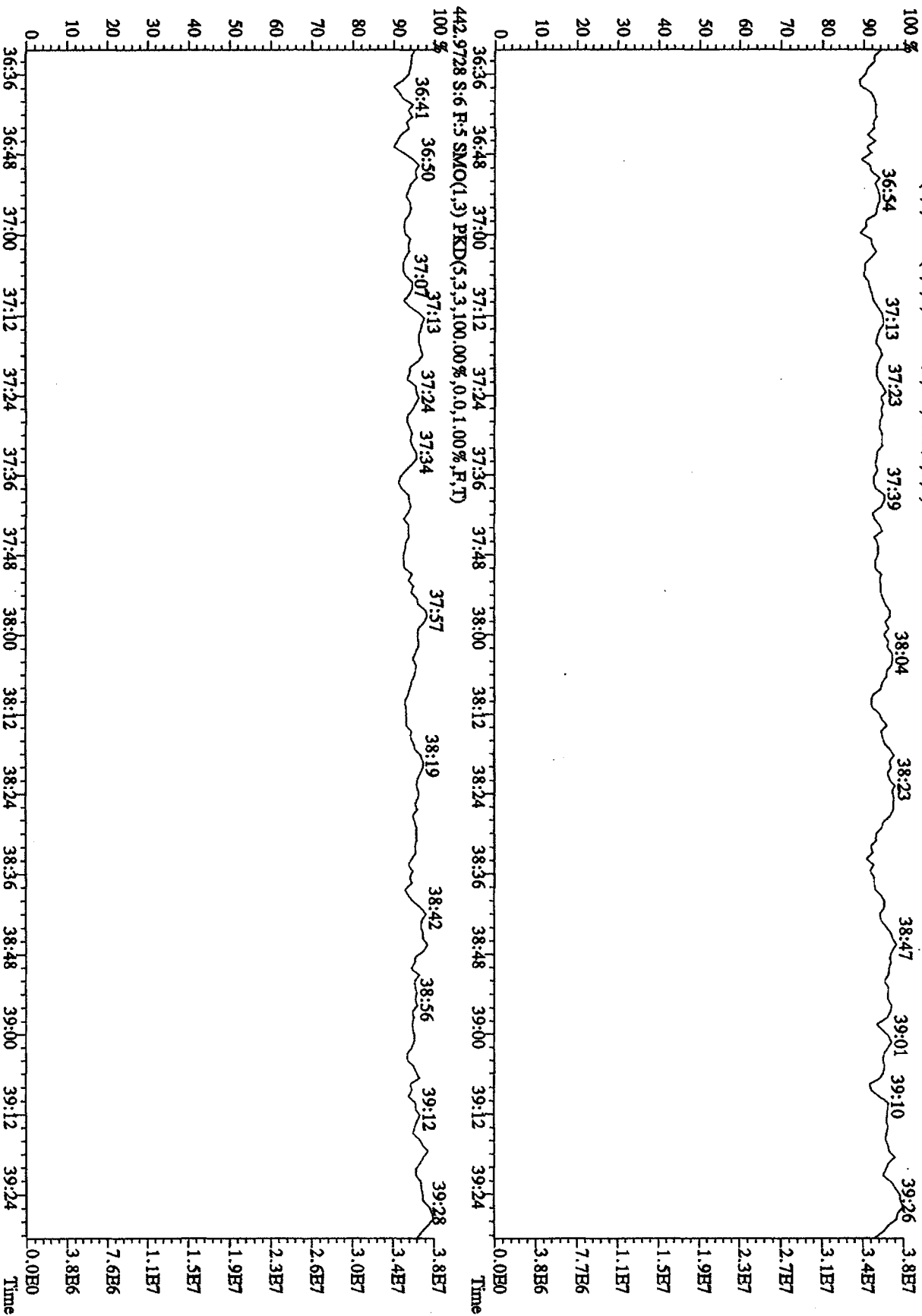
File: 27JUL101D5 #1-406 Acq: 27-JUL-2010 11:38:49 GC HI+ Voltage SIR 70SE  
 Sample#6 Text: ST0727D : CSS 10DKN339 Exp: DIOXINRES  
 392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4764,0,1.00%,F,T)  
 445.7555 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1768,0,1.00%,F,T)  
 380.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 27JL101D5 #1-214 Acq: 27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE  
 Sample#6 Text: ST0727D : CSS 10DXN339 Exp: DIOXINRES  
 430.9728 S:6 F:4 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)

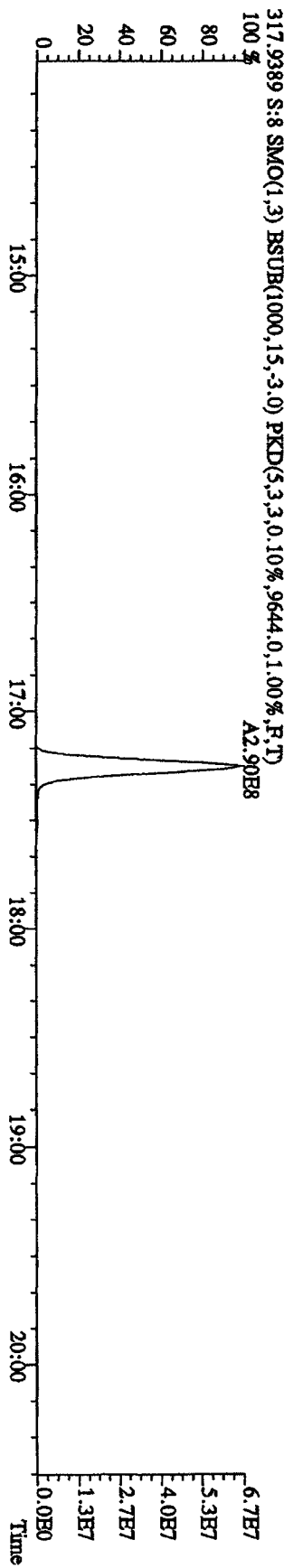
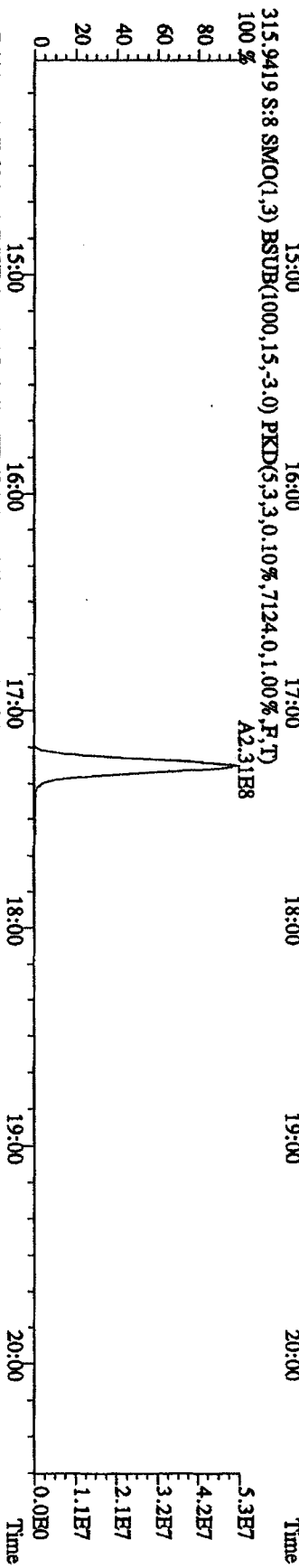
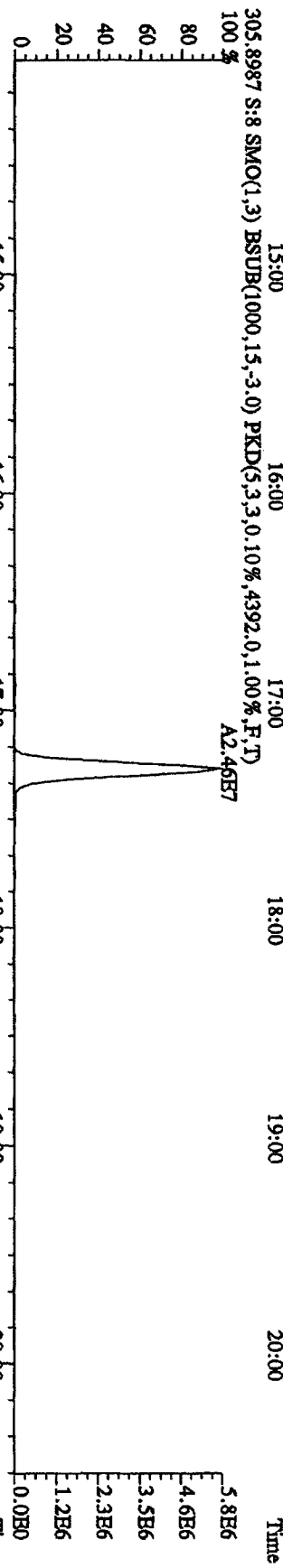
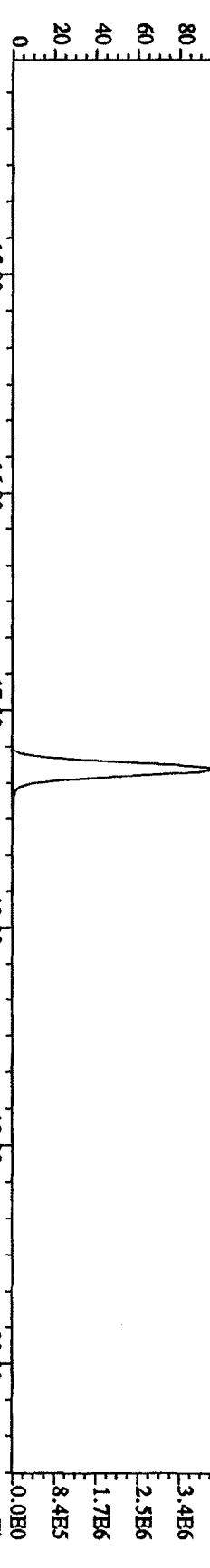


File:27TL101D5 #1-196 Acq:27-JUL-2010 11:38:49 GC EI+ Voltage SIR 70SE  
 Sample#6 Text:ST0727D :CSS 10DXN339 Exp:DIOXNBRES  
 454.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

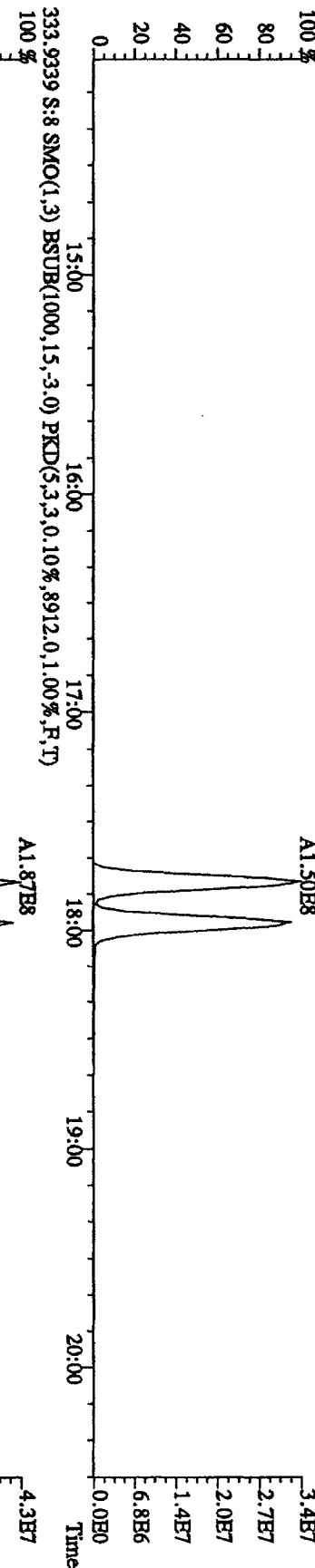
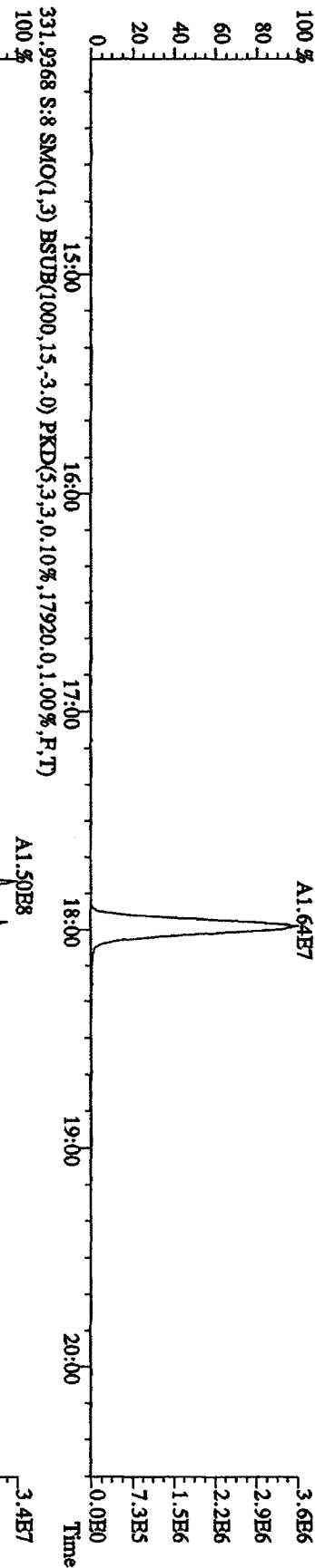
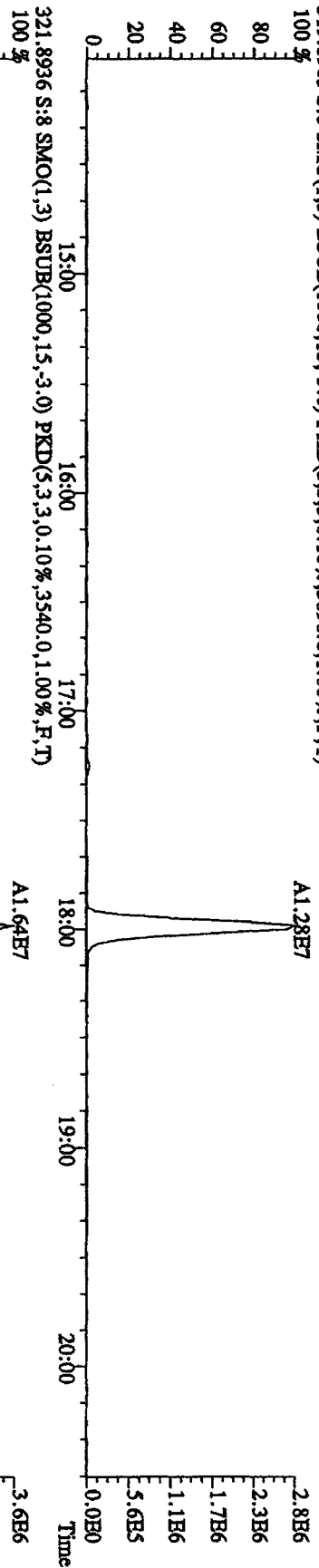




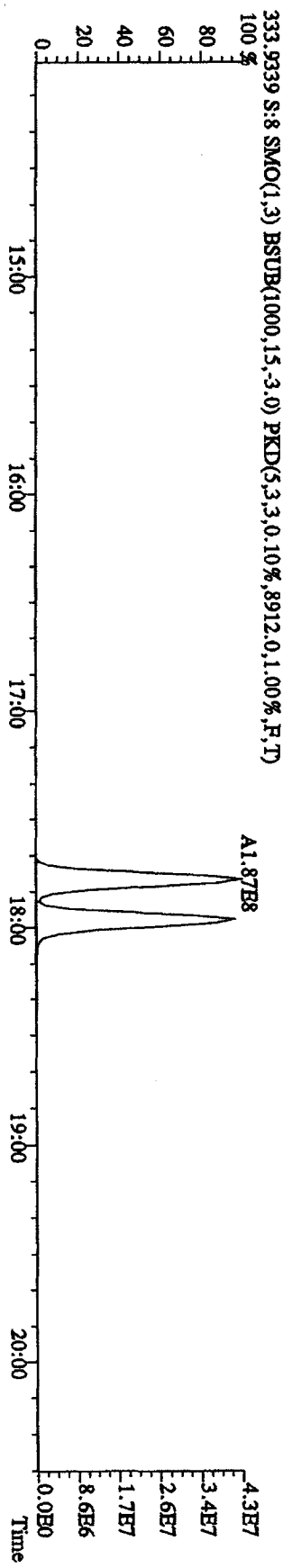
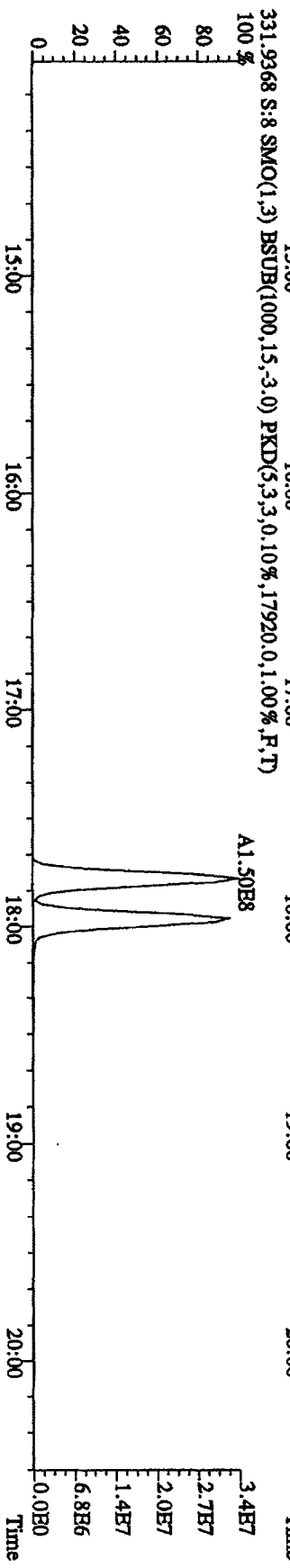
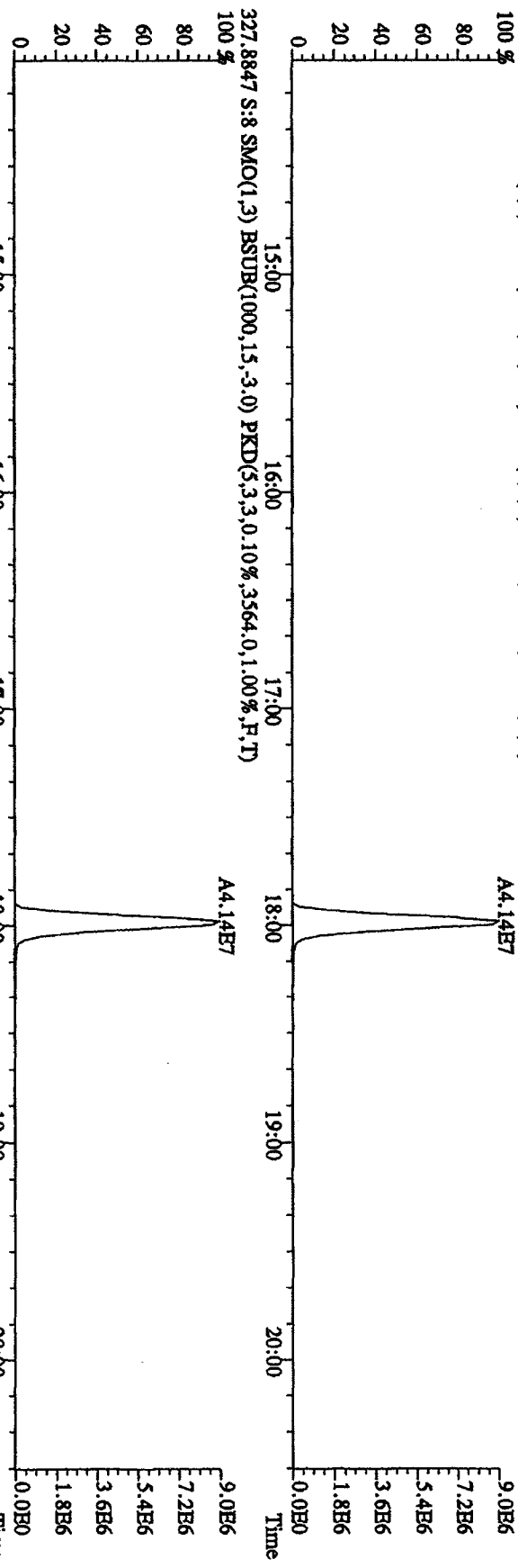
File:27JL101D5 #1-382 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:ST0727F 2nd Source 10DXN340 Exp:DI0XINRES  
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2664,0.1,0.0%,F,T)  
 100 % A1.83E7



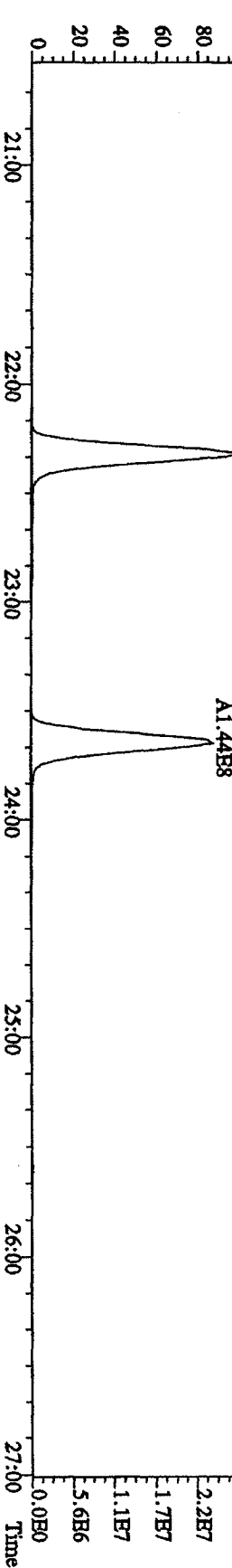
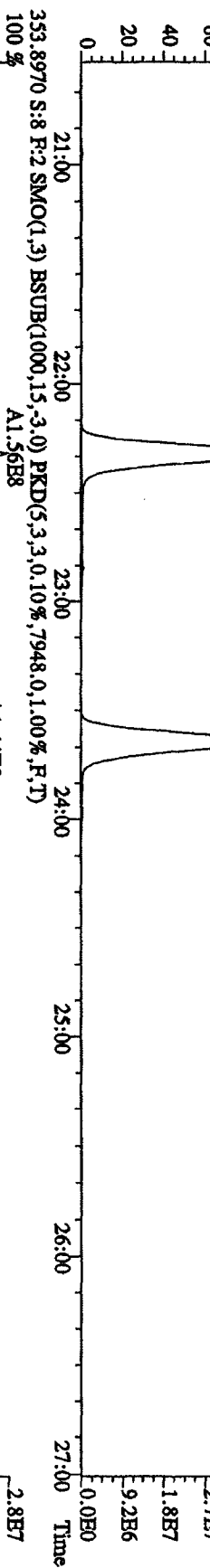
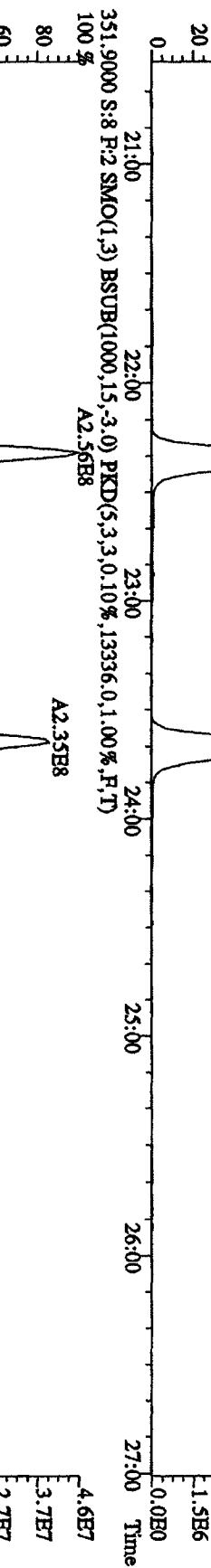
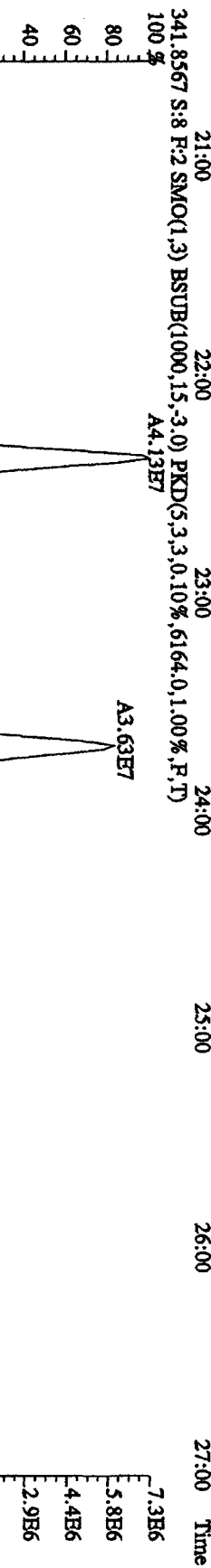
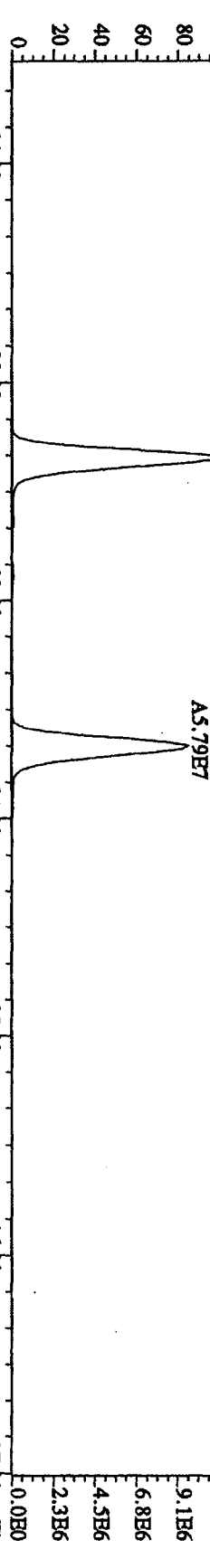
File:27JL101D5 #1-382 Acq:27-JUL-2010 13:06:44 GC HI + Voltage SIR 70SB  
Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRBS  
319.8965 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3896,0,1,100%,F,T)



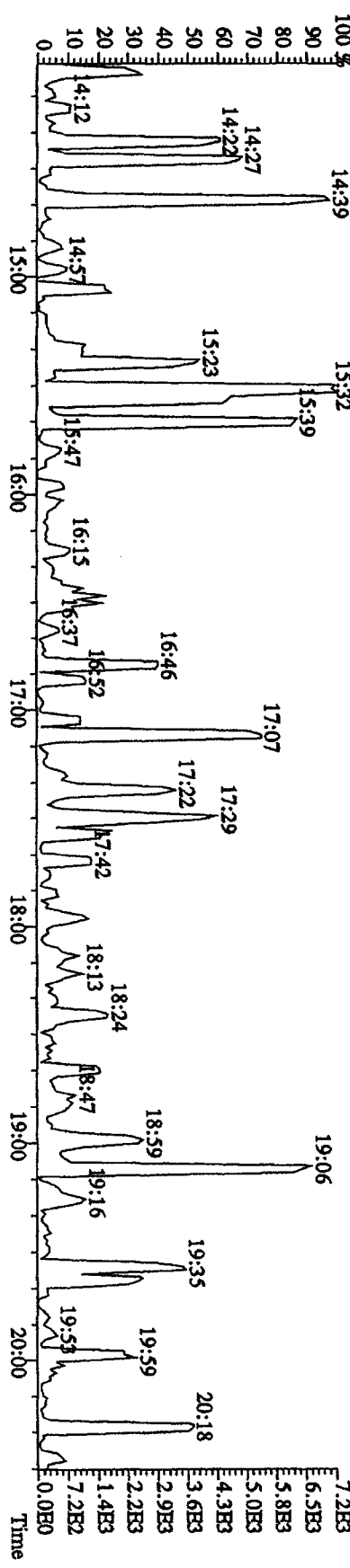
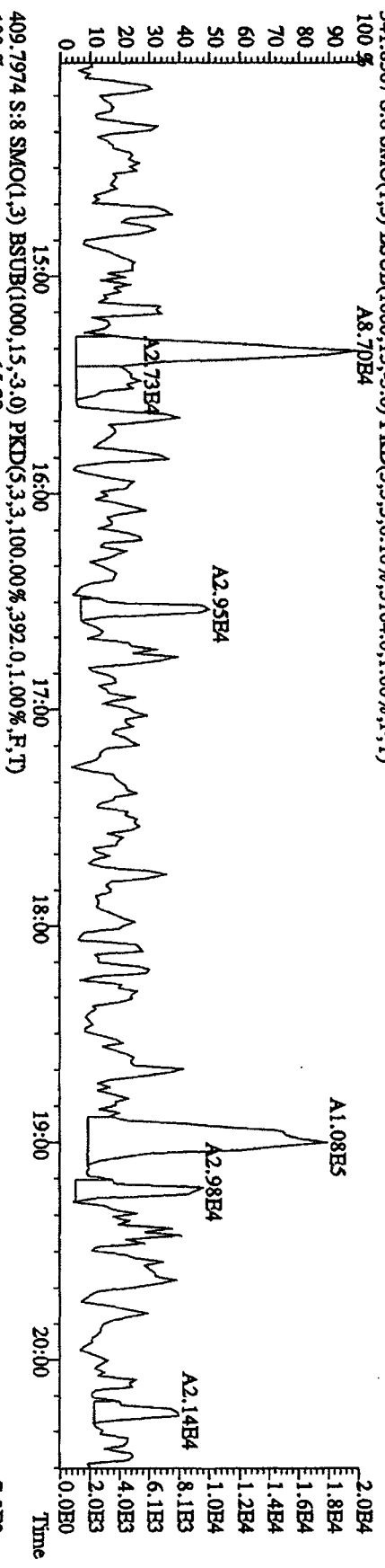
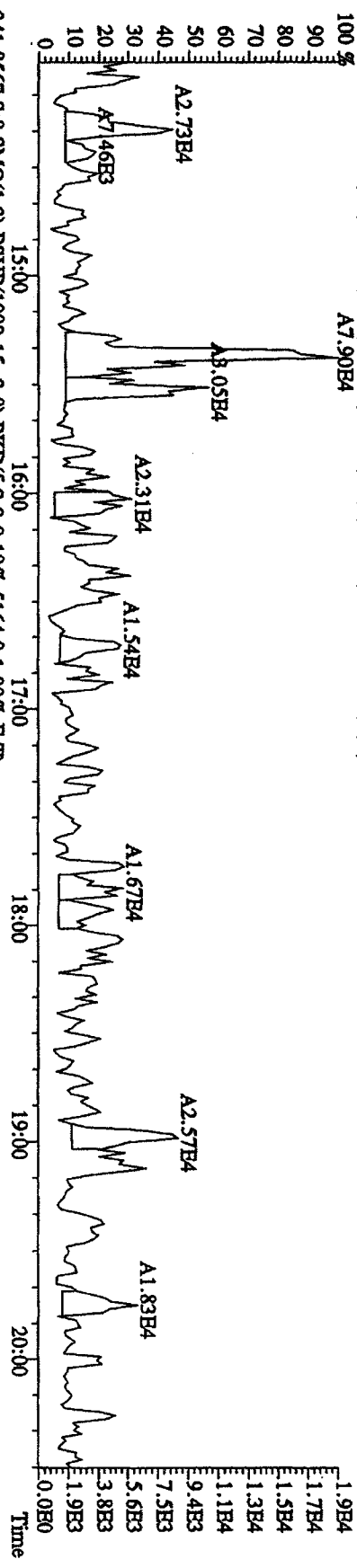
File: 27JL101D5 #1-382 Acq: 27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE  
 Sample#8 Text: ST0727F : 2nd Source 10DXN340 Exp: DIOXINRES  
 327.8847 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3564,0,1,00%,F,T)  
 100%



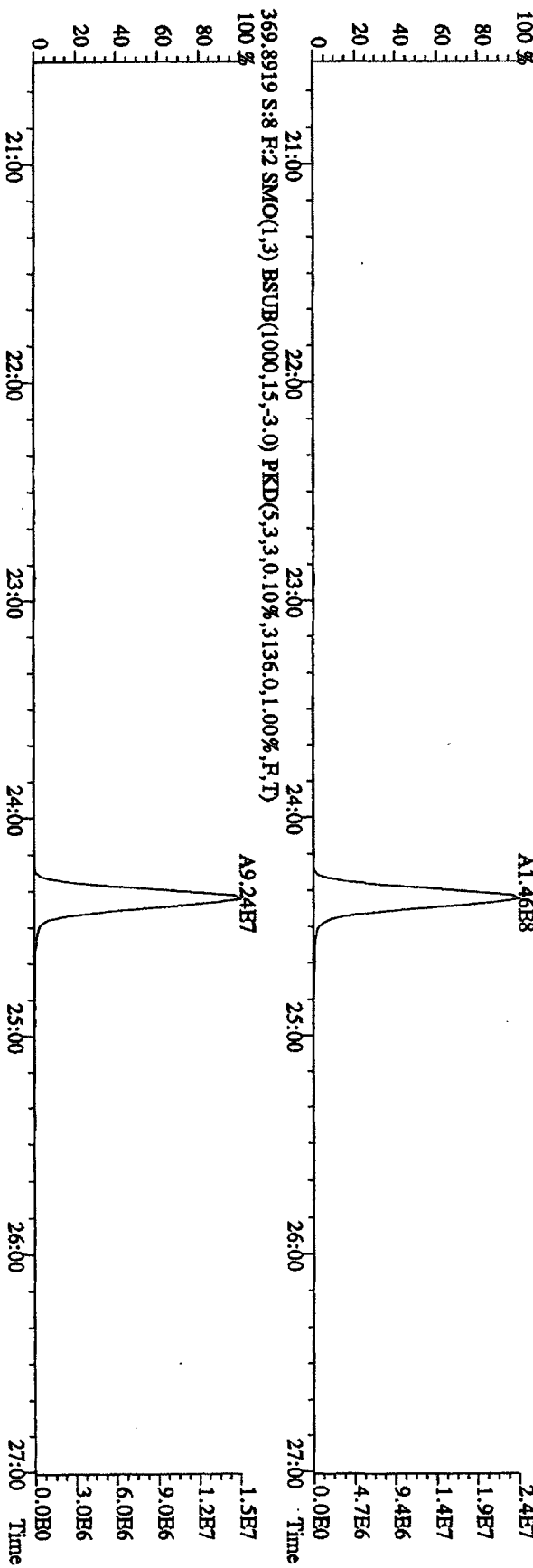
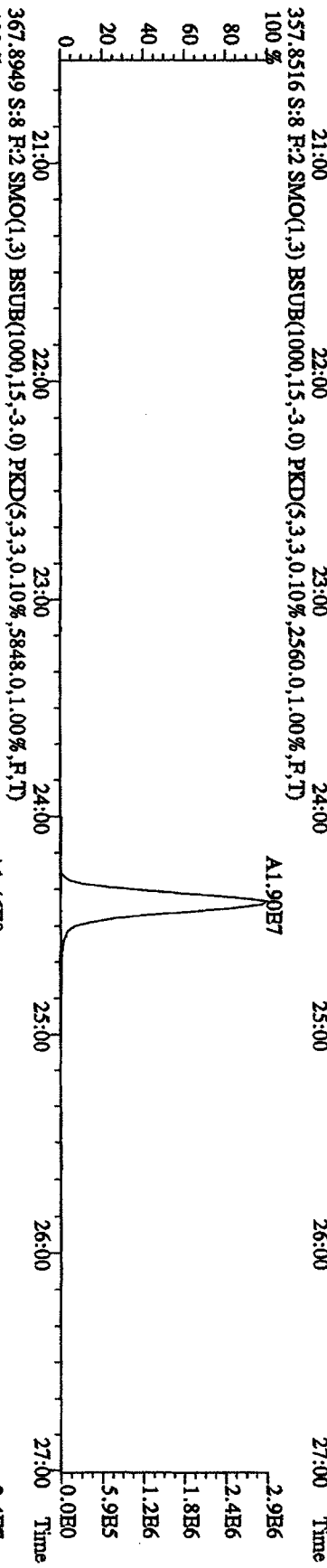
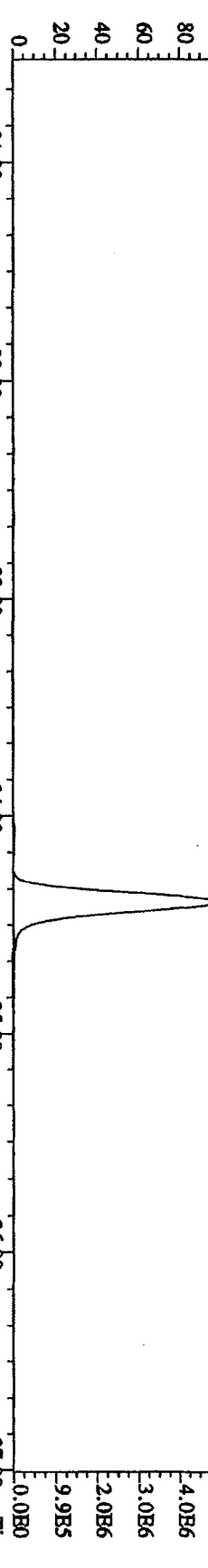
File:27JUL101D5 #1-404 Acq:27-JUL-2010 13:06:44 GC HI+ Voltage SIR 70SE  
 Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES  
 339,8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3796,0,1,00%,F,T)  
 100%



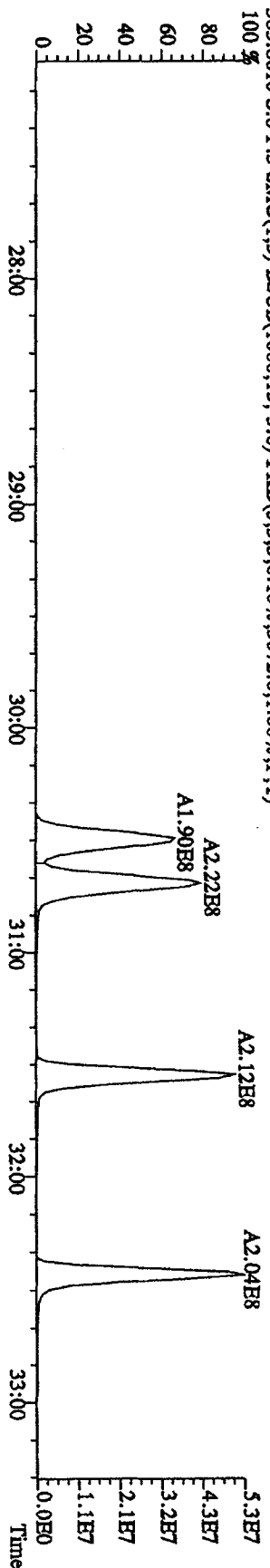
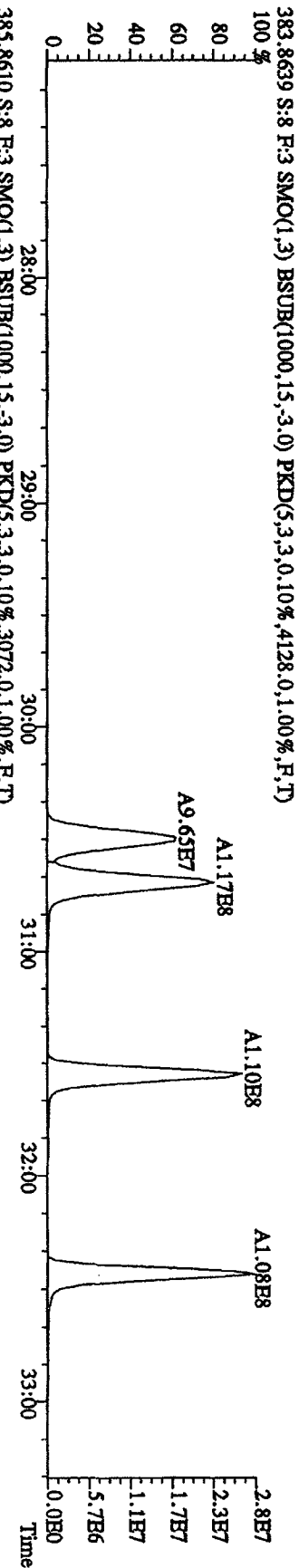
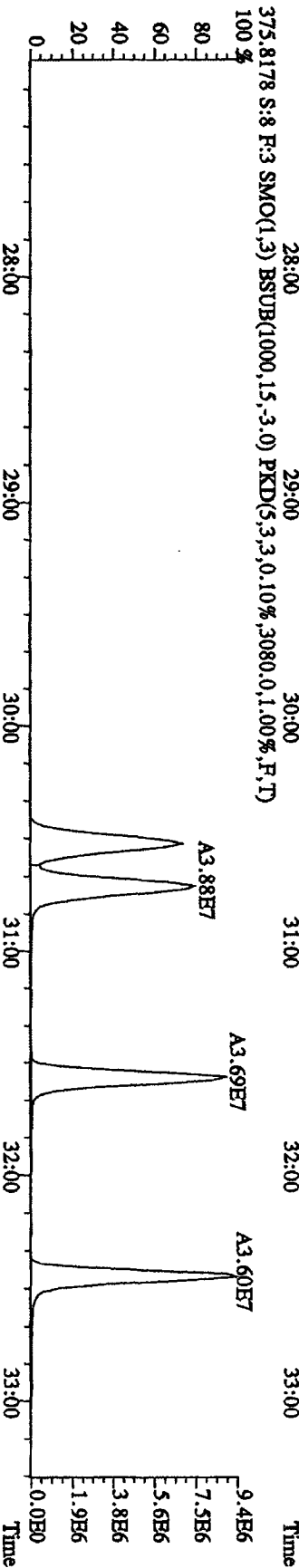
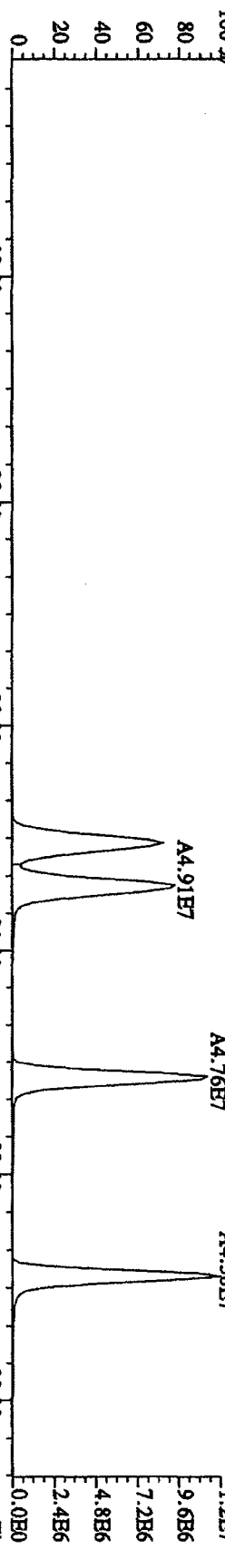
File:27JL101D5 #1-382 Acq:27-JUL-2010 13:06:44 GC HI + Voltage SIR 70SE  
 Sample#8 Text:ST0727H :2nd Source 10DXN340 Exp:DIOXINRES  
 339.8597 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2880,0.1,00%,F,T)



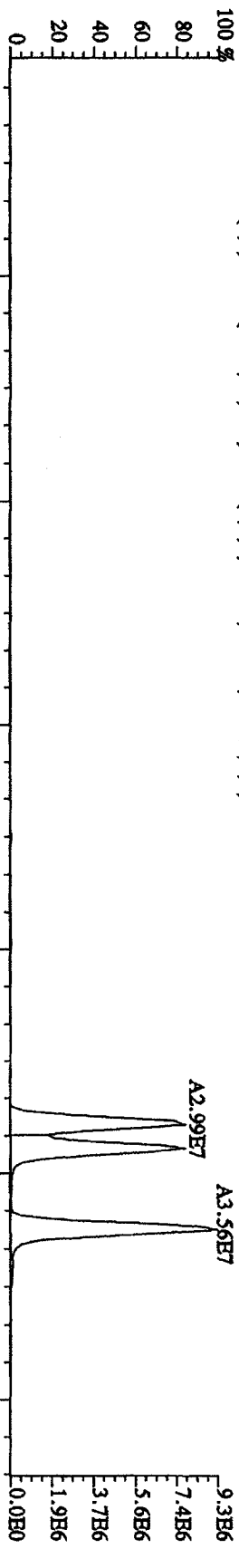
File: 27JUL101D5 #1-404 Acq: 27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE  
 Sample#8 Text: ST0727F : 2nd Source 10DXN340 Exp: DIOXINRES  
 355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4960,0.1,0.00%,F,T)  
 100%



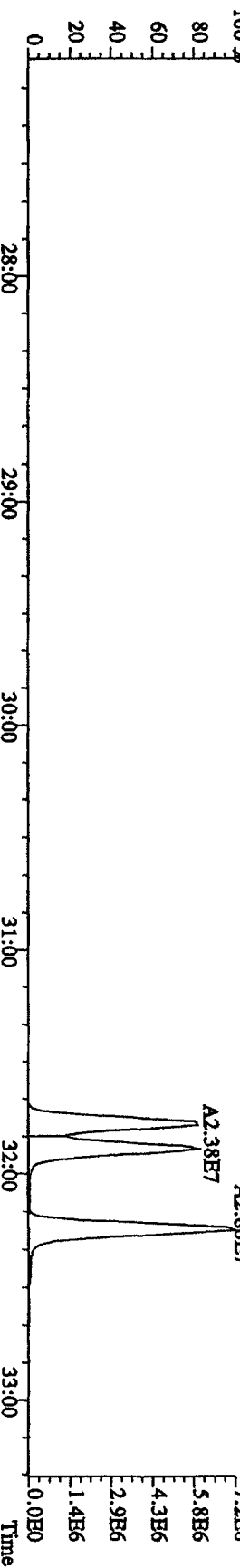
File:27JL101D5 #1-406 Acq:27-JUL-2010 13:06:44 GC HI+ Voltage SIR 70SE  
 Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRBS  
 373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2996,0,1,00%,F,T)



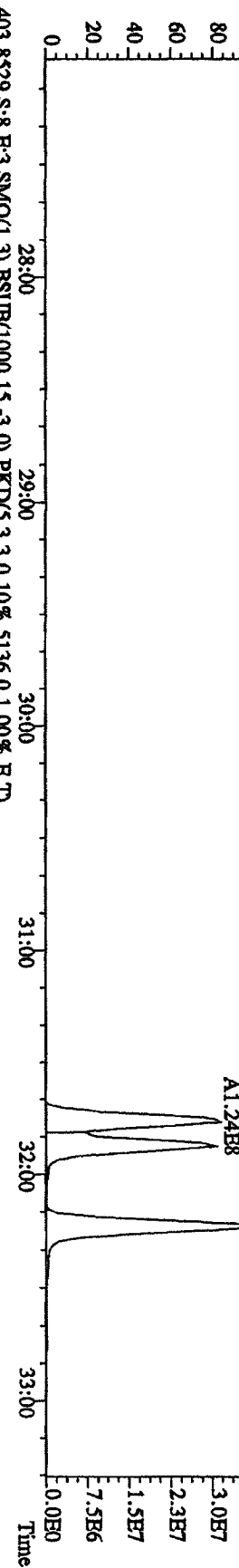
File:271L101D5 #1-406 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SB  
 Sample#8 Text:ST0727F :2nd Source 10DXN340 Exp:DIOXINRES  
 389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2872,0,1,00%,F,T)  
 100 %



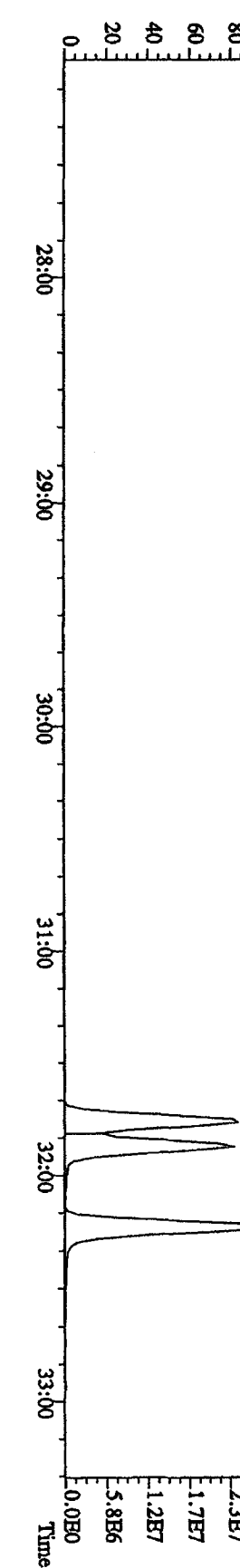
391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7856,0,1,00%,F,T)  
 100 %



401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2448,0,1,00%,F,T)  
 100 %

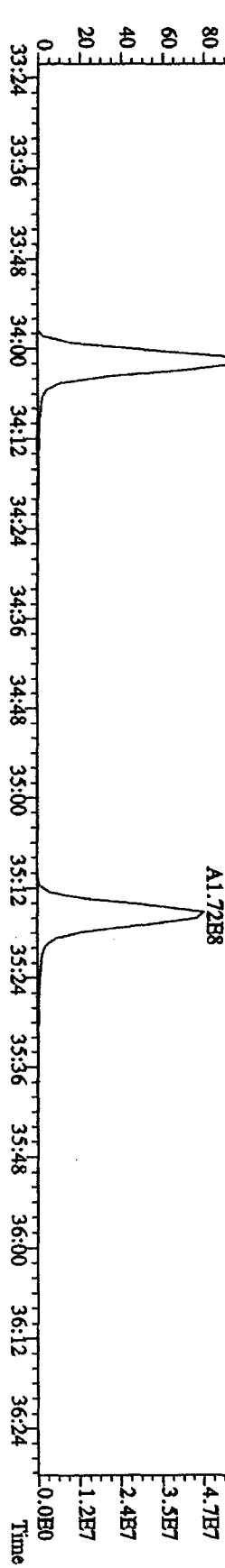
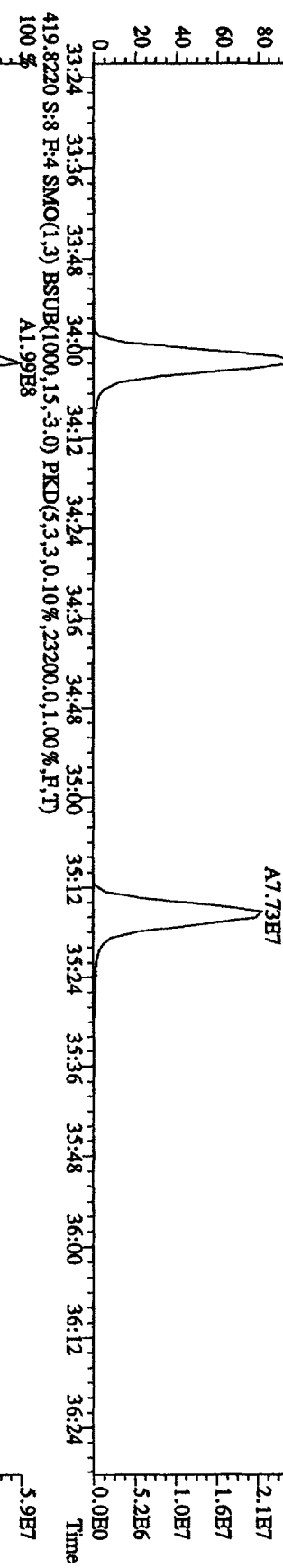
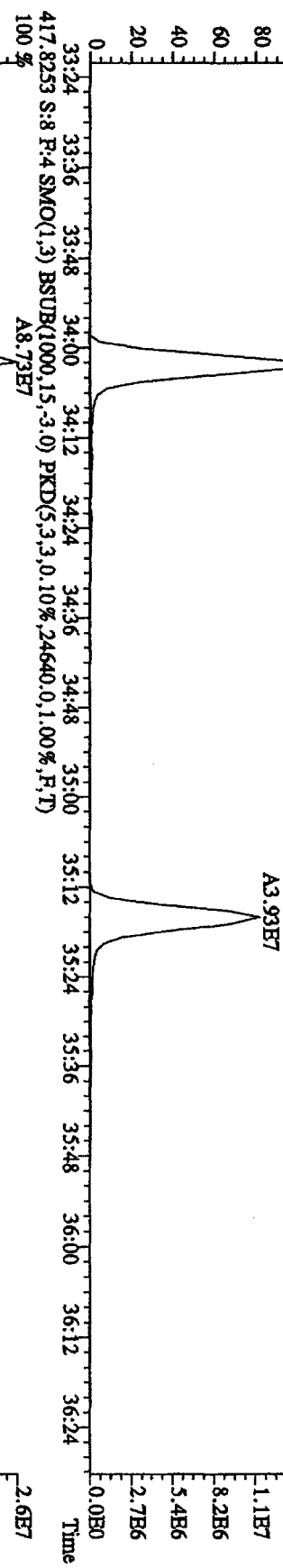
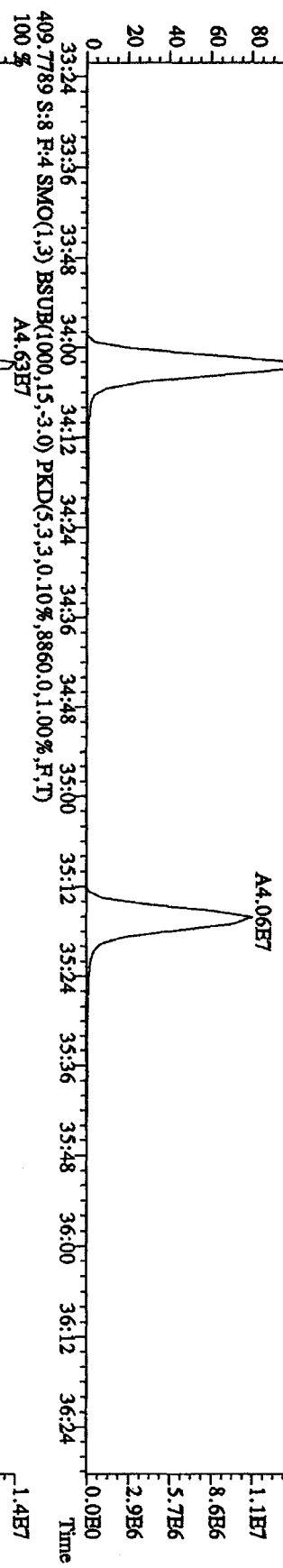


403.8529 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5136,0,1,00%,F,T)  
 100 %

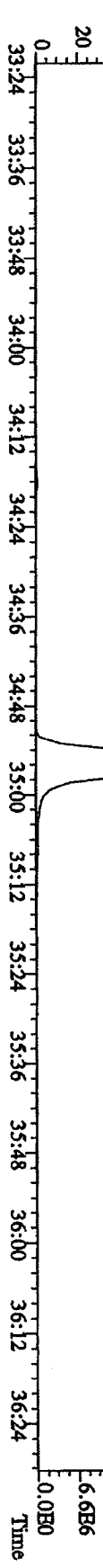
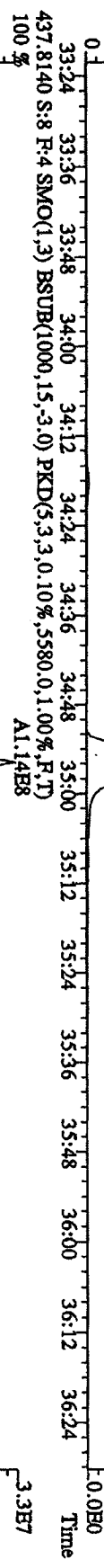
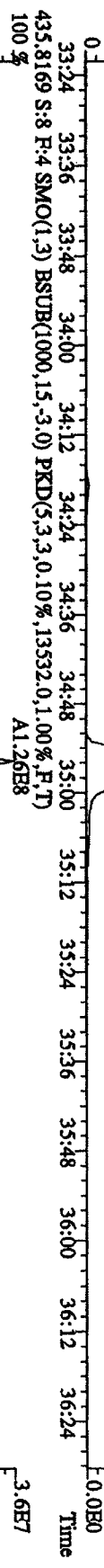
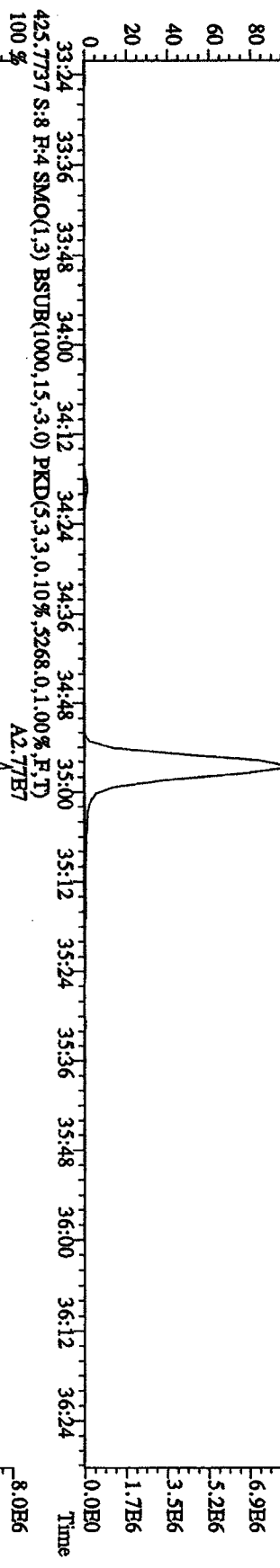




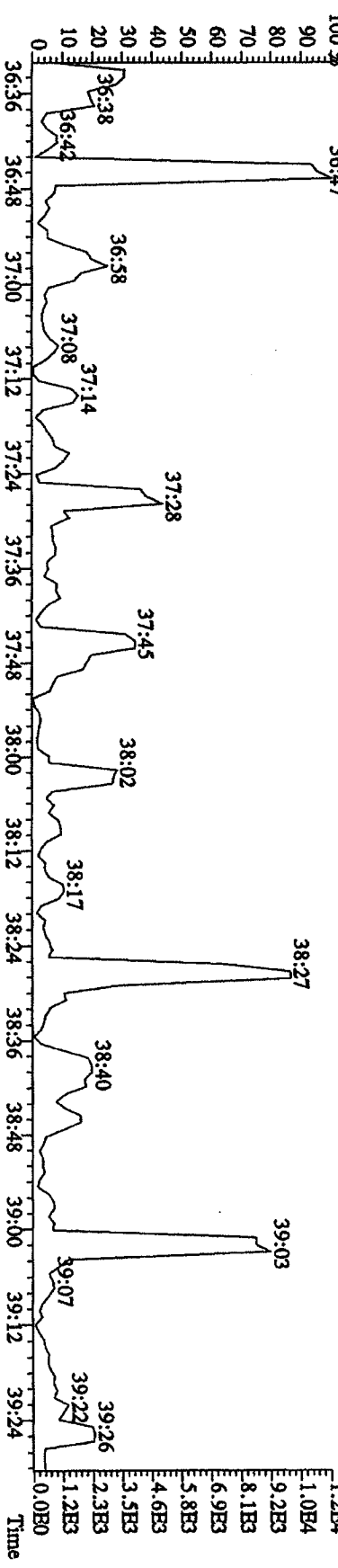
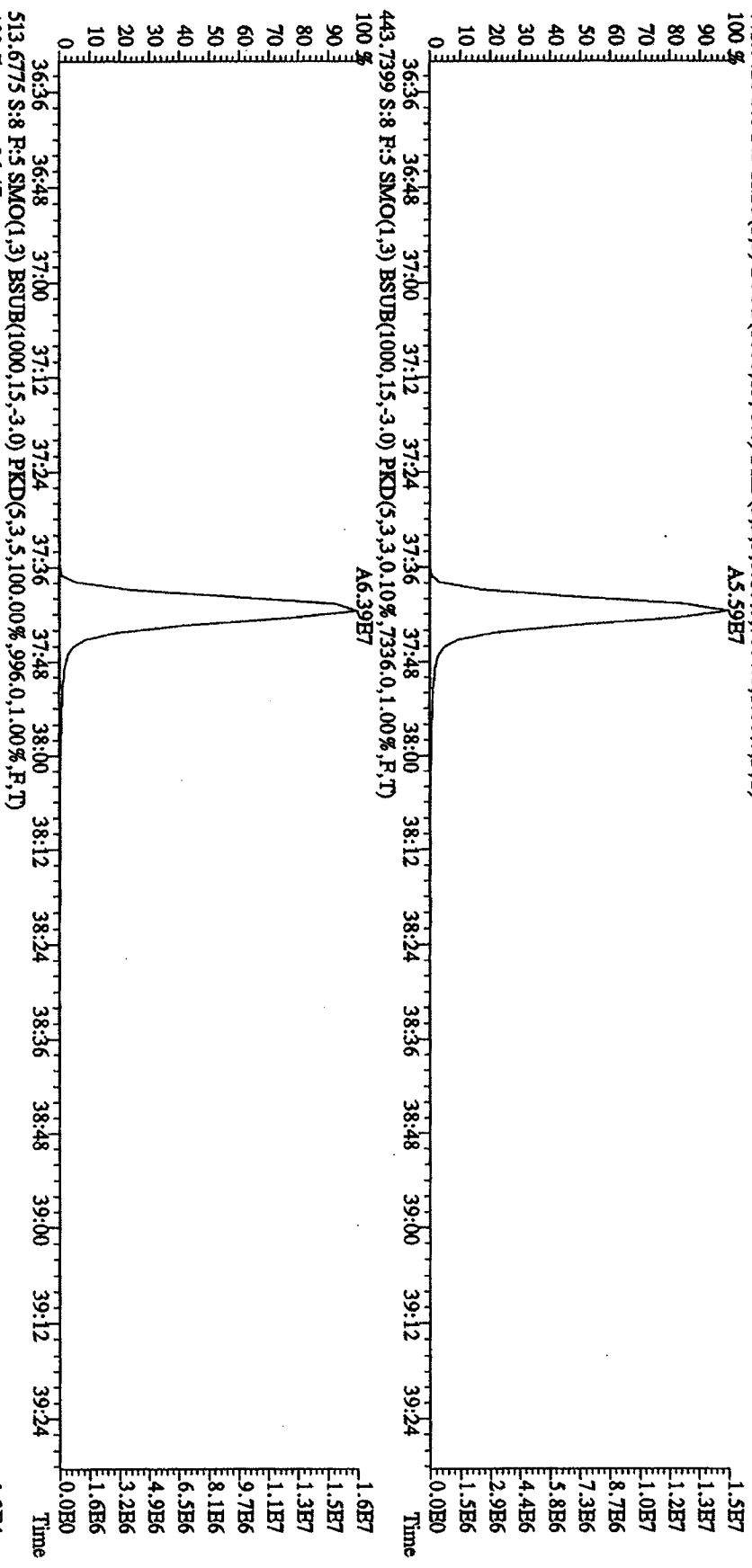
File: 27JUL10ID5 #1-214 Acq: 27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SB  
 Sample#8 Text: ST0727F : 2nd Source 10DXN340 Exp: DIOXINRES  
 407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10740,0,1,00%,F,T)  
 100%



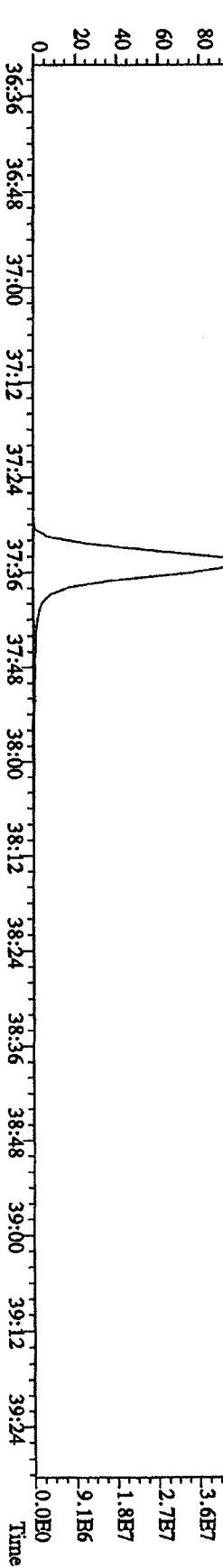
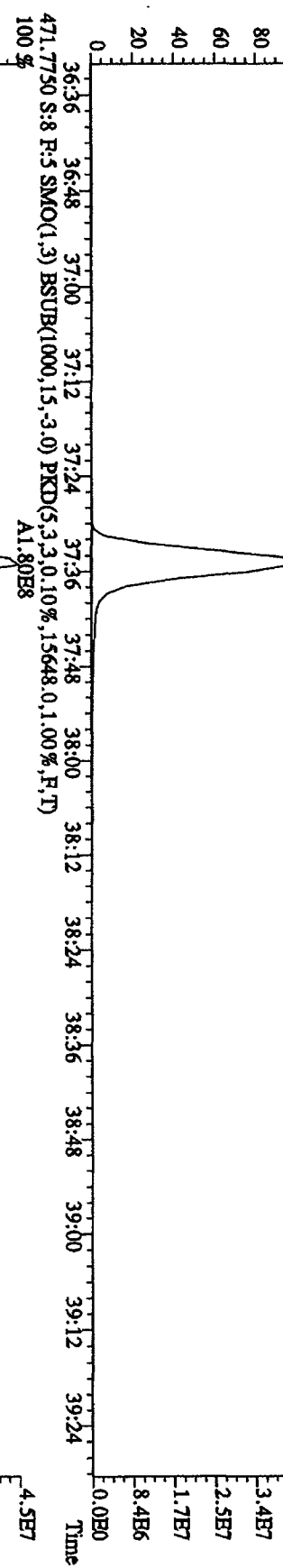
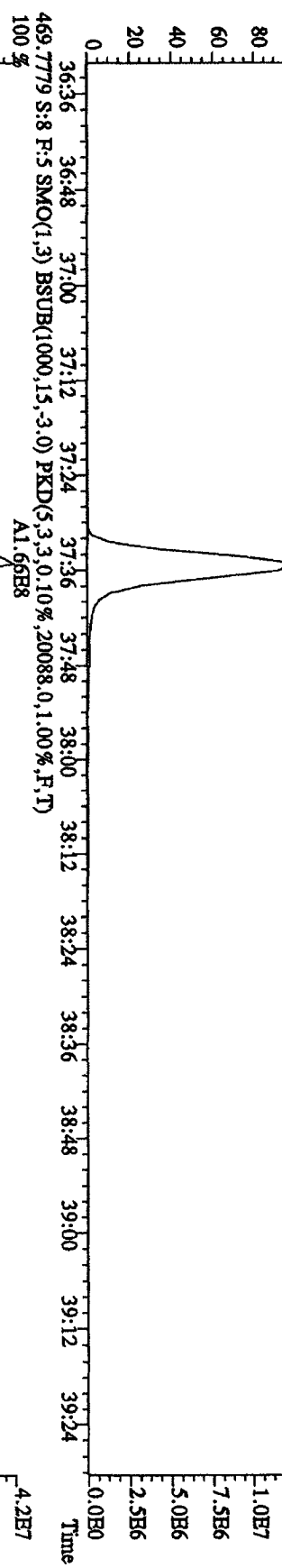
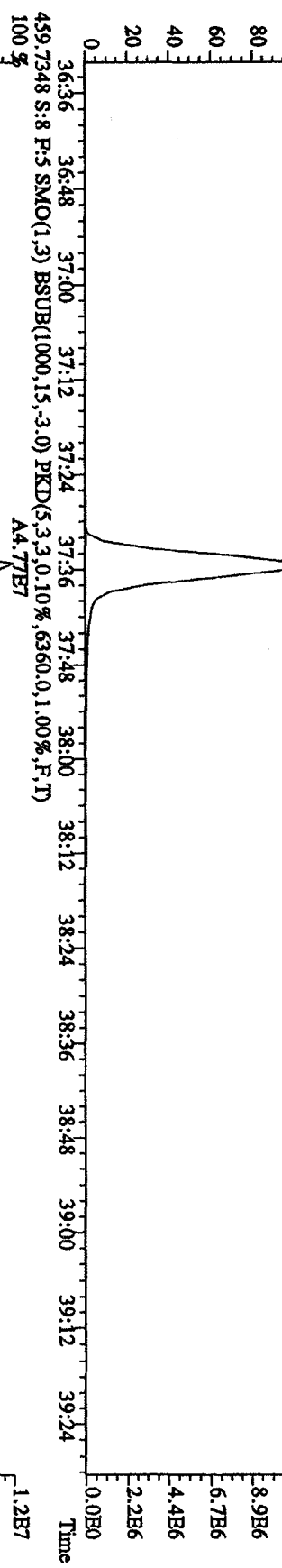
File: 27JL101D5 #1-214 Acq: 27-JUL-2010 13:06:44 GC EI+ Voltage STR 70SB  
 Sample#8 Text: ST0727F 2nd Source 10DDXN340 Exp: DIOXINRES  
 425.7737 S:8 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5268,0,1,1.00%,F,T)  
 100% A2.77B7



File: 27JUL101D5 #1-196 Acq: 27-JUL-2010 13:06:44 GC HI + Voltage SIR 70SE  
 Sample#8 Text: ST0727F .2nd Source 10DXN340 Exp: DIOXINRES  
 441.7428 S: 8 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7004,0,1,00%,F,T)  
 100%



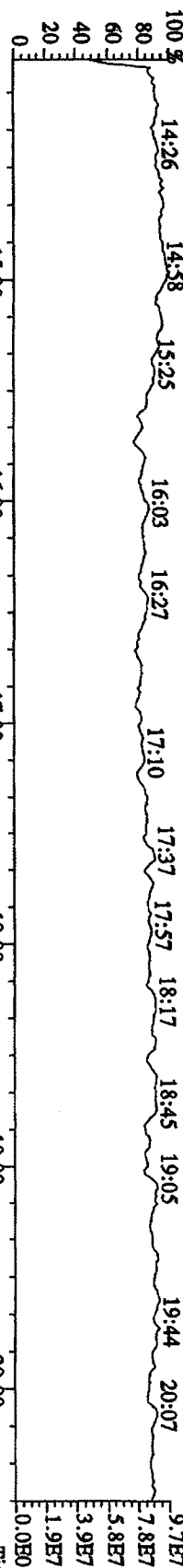
File:27JUL10ID5 #1-196 Acq:27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:ST0727F 2nd Source 10DXN340 Exp:DIOXINRES  
 457.7377 S:8 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,5020.0,1.00%,F,T)  
 100 % A4.32E7



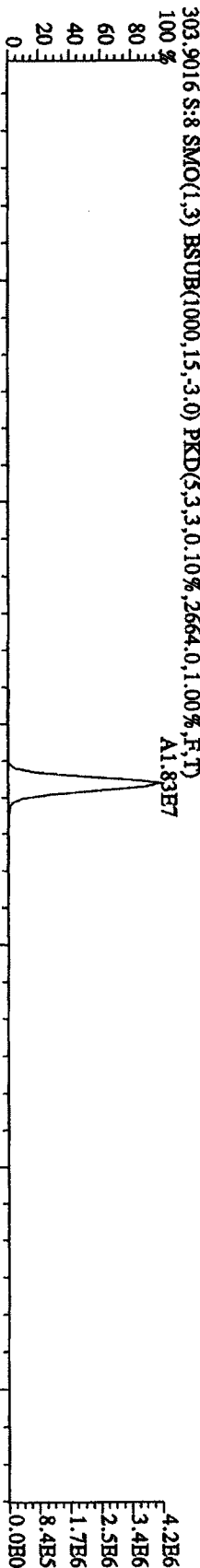
File: 27JL101D5 #1-382 Acq: 27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SB

Sample#8 Text: ST0727F 2nd Source 10DXN340 Exp: DIOXINRES

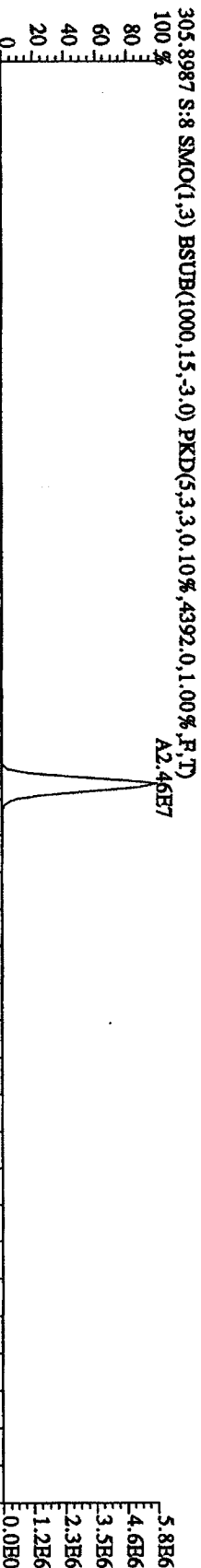
292.9825 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



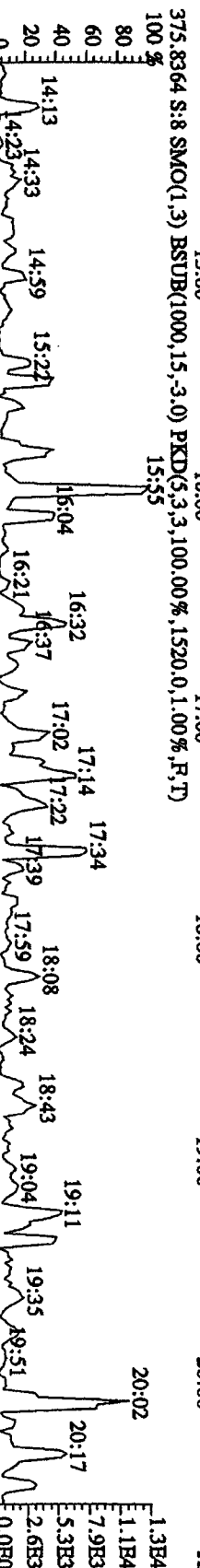
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2664,0,1.00%,F,T)



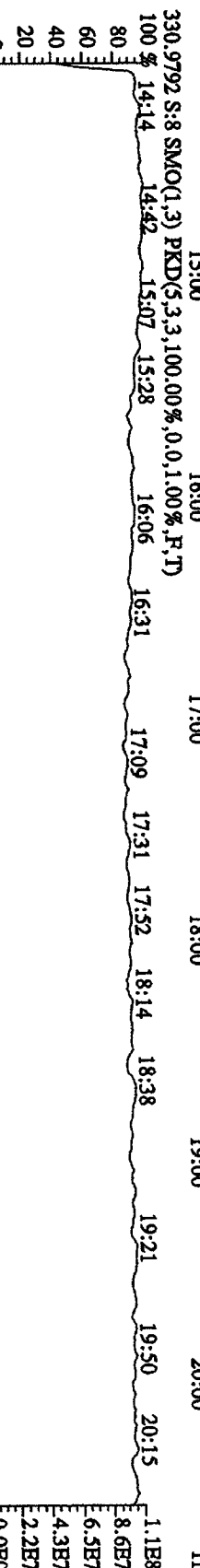
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4392,0,1.00%,F,T)



375.8364 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1520,0,1.00%,F,T)



330.9792 S:8 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

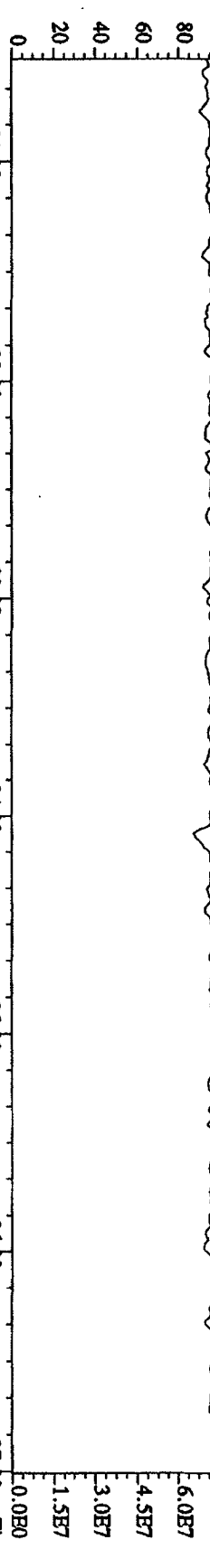


File: 27JL101D5 #1-404 Acq: 27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE

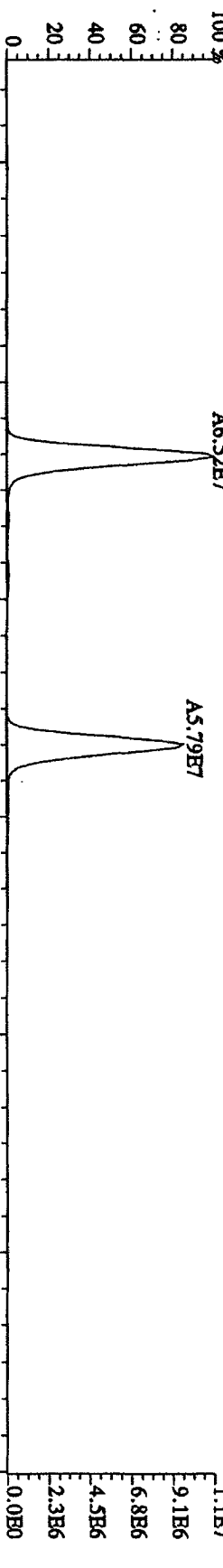
Sample#8 Text: ST0727F 2nd Source 10DXN340 Exp: DIOXINRES

342.9792 S:8 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

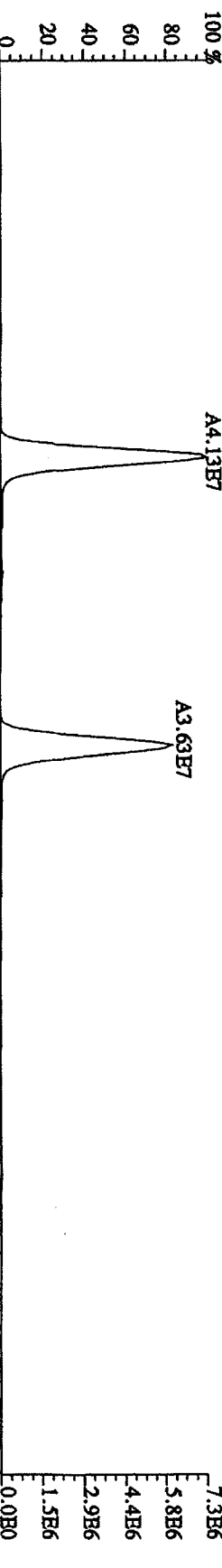
100% 20:52 21:16 21:58 22:19 22:41 23:10 23:33 23:56 24:33 24:56 25:18 25:41 26:04 26:26



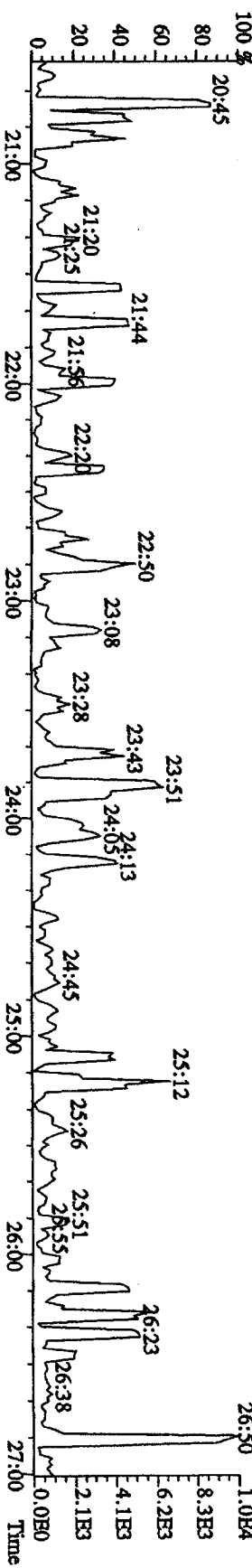
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3796,0,1.00%,F,T)



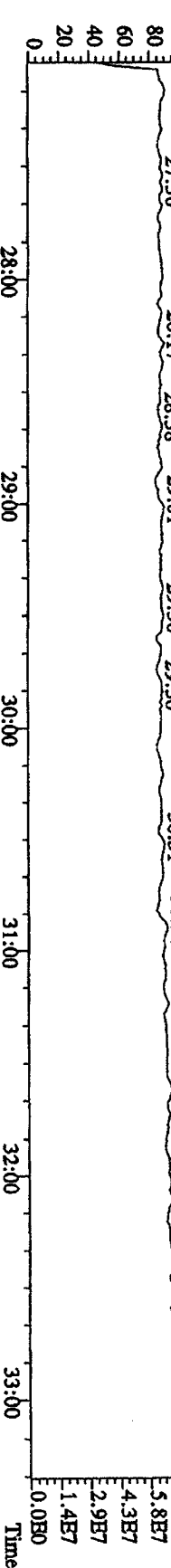
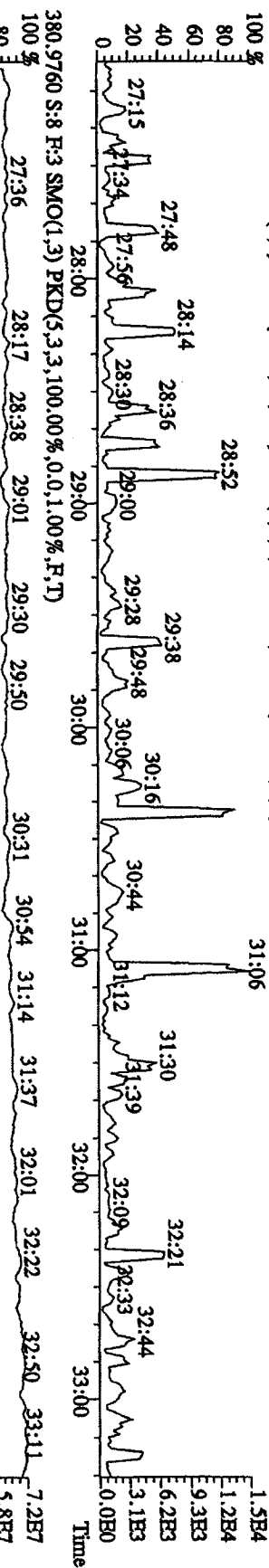
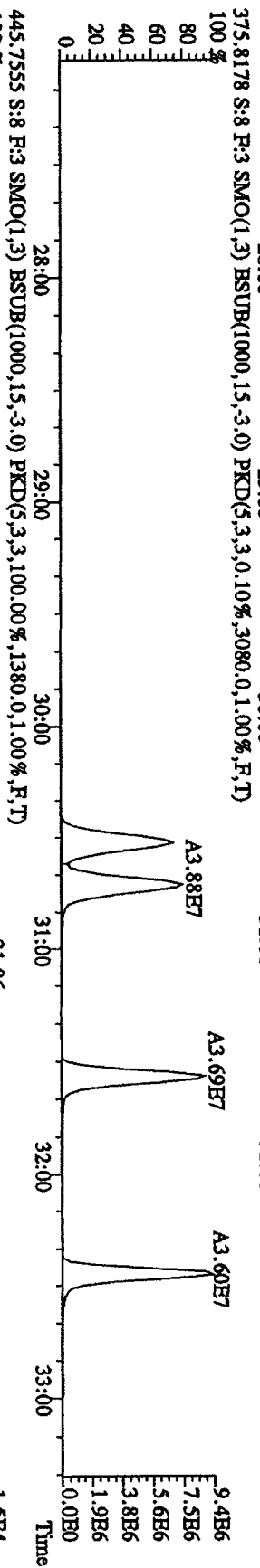
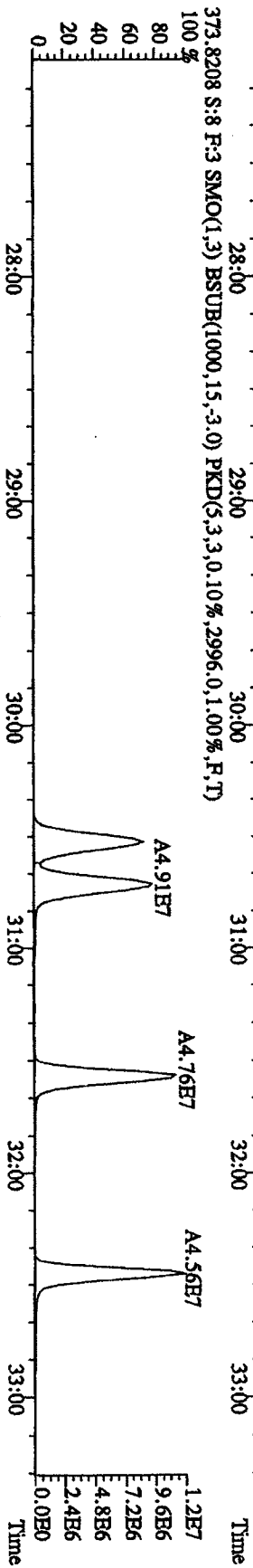
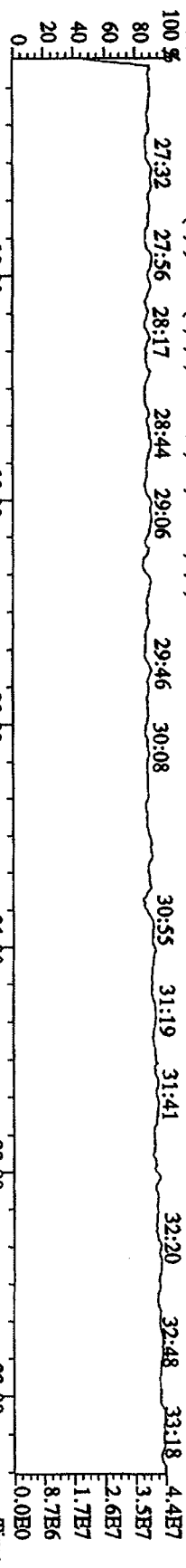
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6164,0,1.00%,F,T)



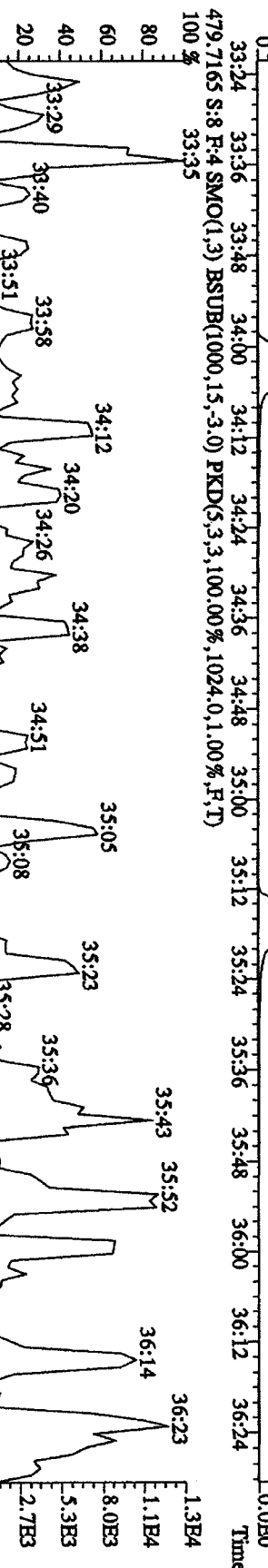
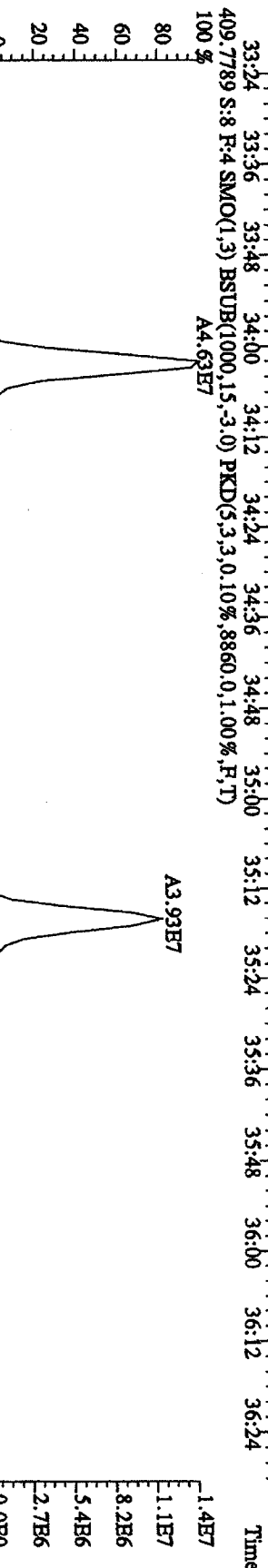
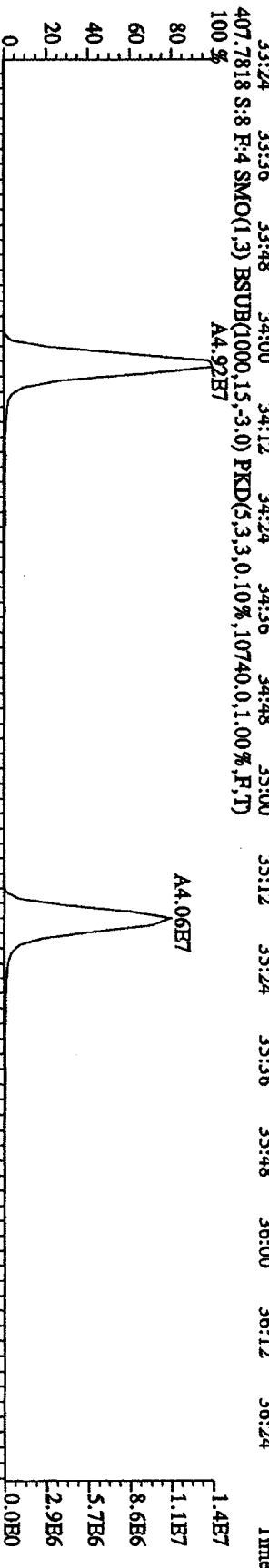
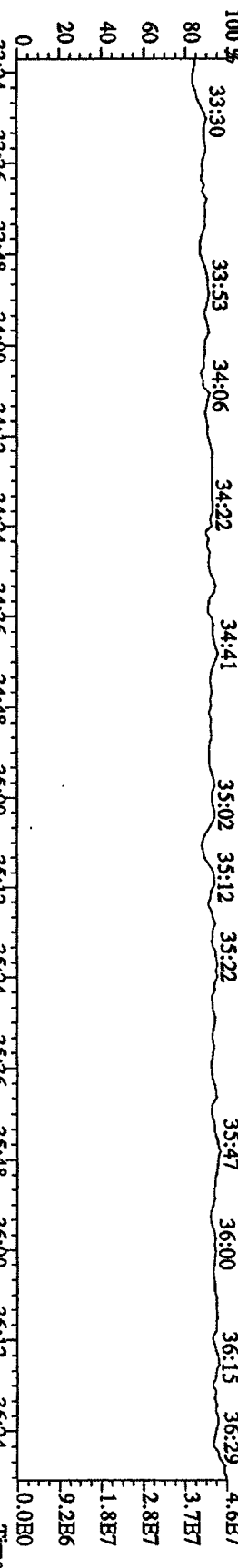
409.7974 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,972,0,1.00%,F,T)



File: 271L101D5 #1-406 Acq: 27-JUL-2010 13:06:44 GC EI+ Voltage SIR 70SE  
 Sample#8 Text: ST0727F : 2nd Source 10DXN340 Exp: DIOXINRES  
 392.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

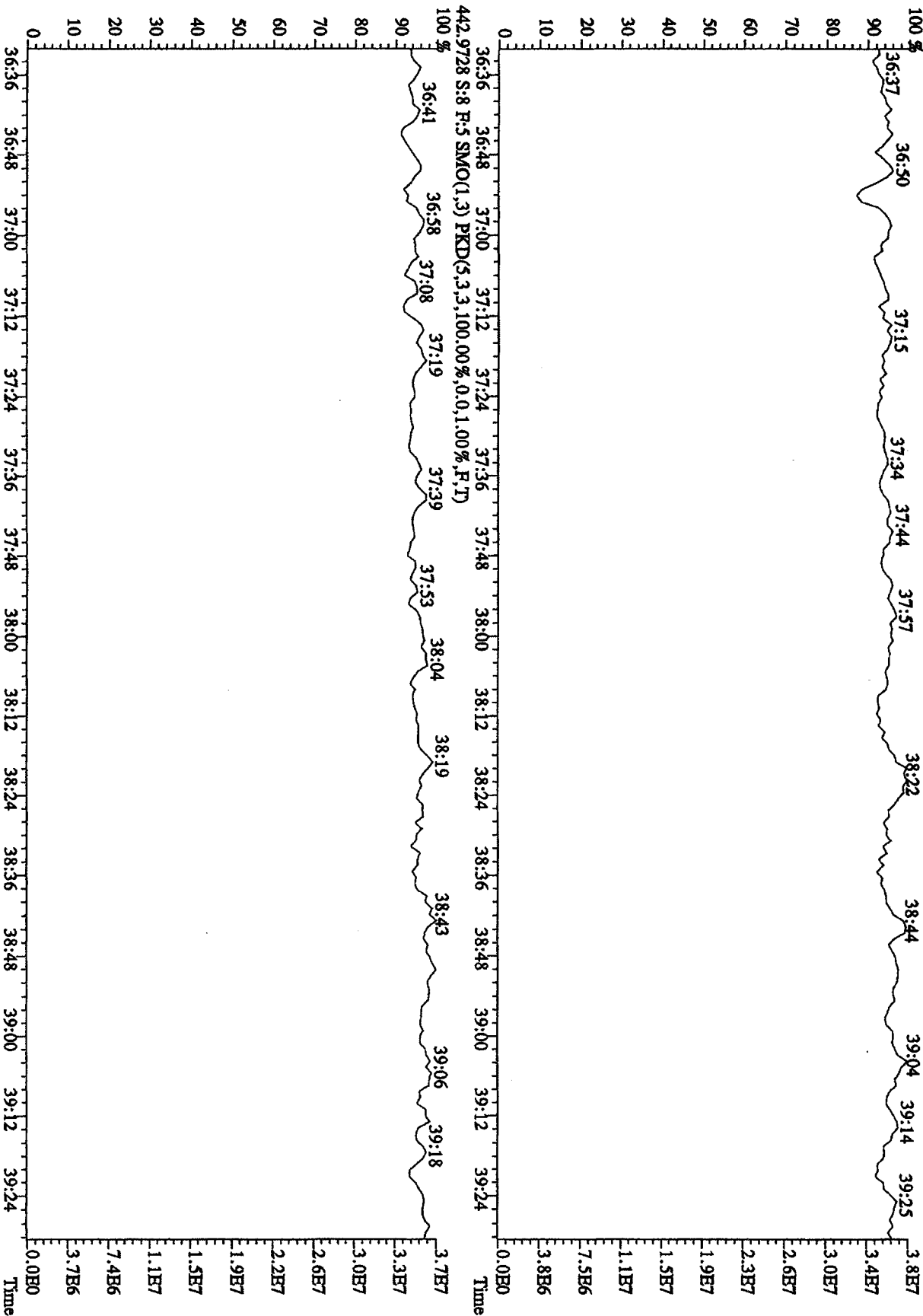


File: 27JUL101D5 #1-214 Acq: 27-JUL-2010 13:06:44 GC HI+ Voltage SIR 70SE  
 Sample#8 Text: ST0727F : 2nd Source 10DXN340 Exp: DIOXINRES  
 430.9728 S:8 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

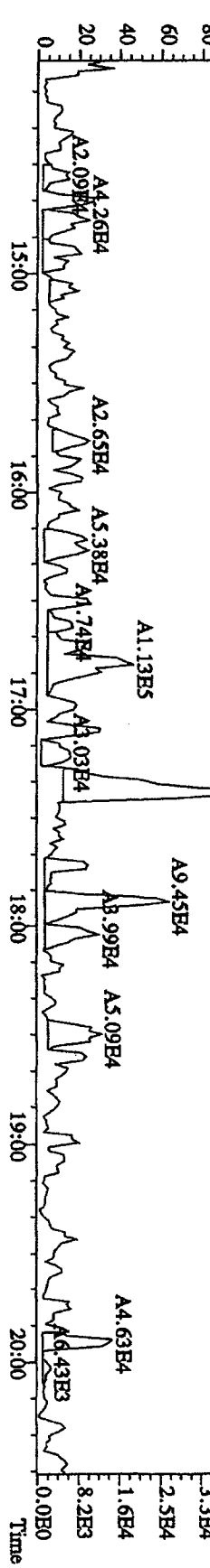
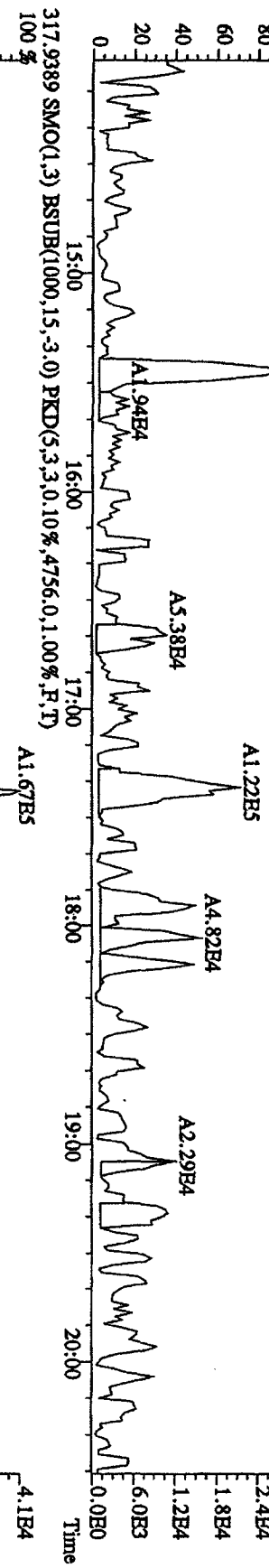
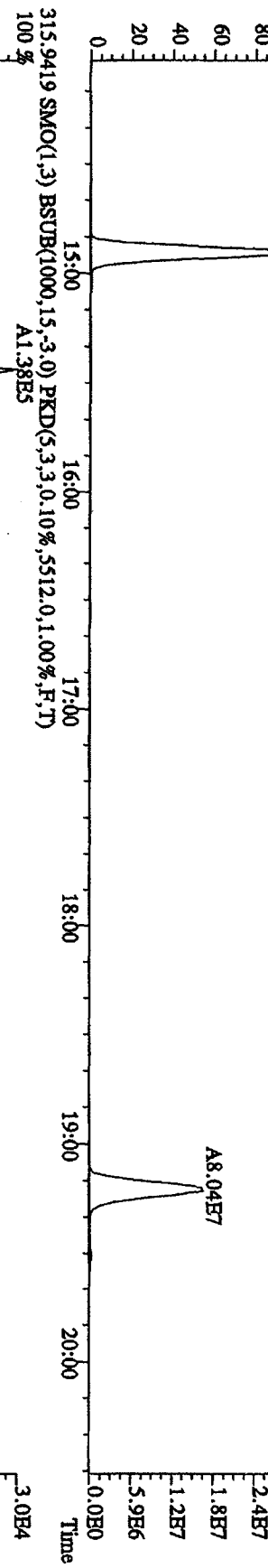
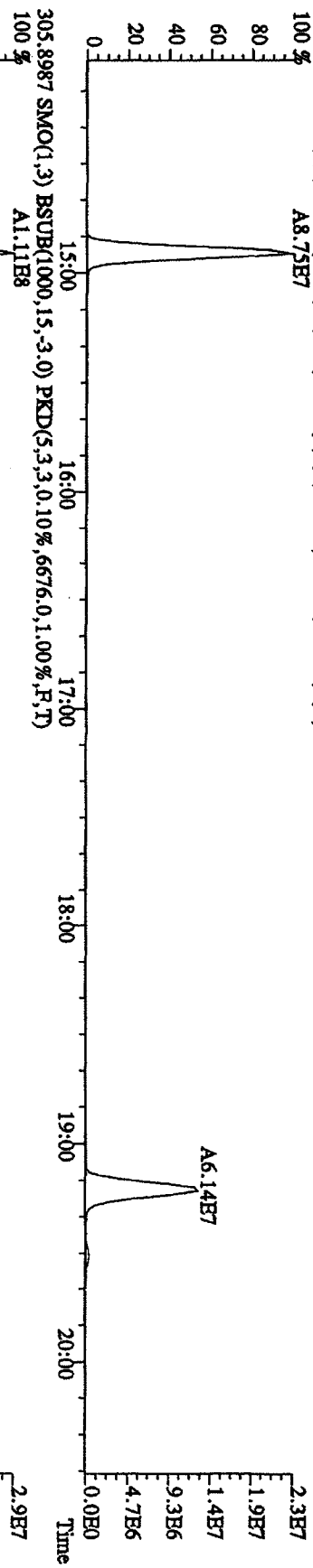




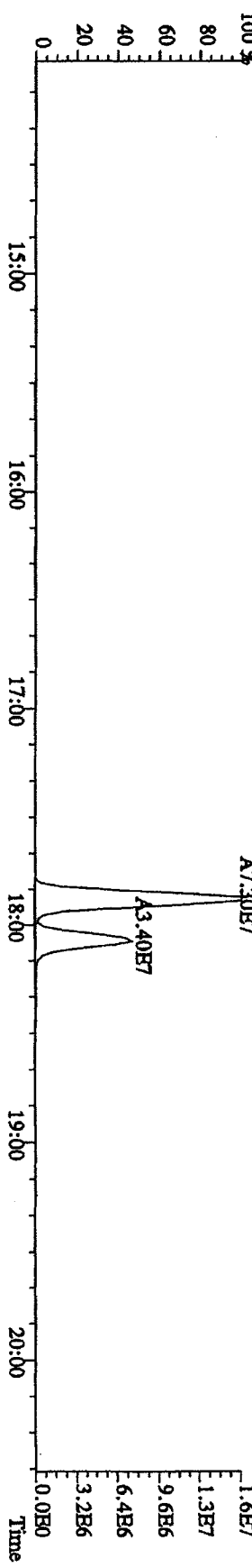
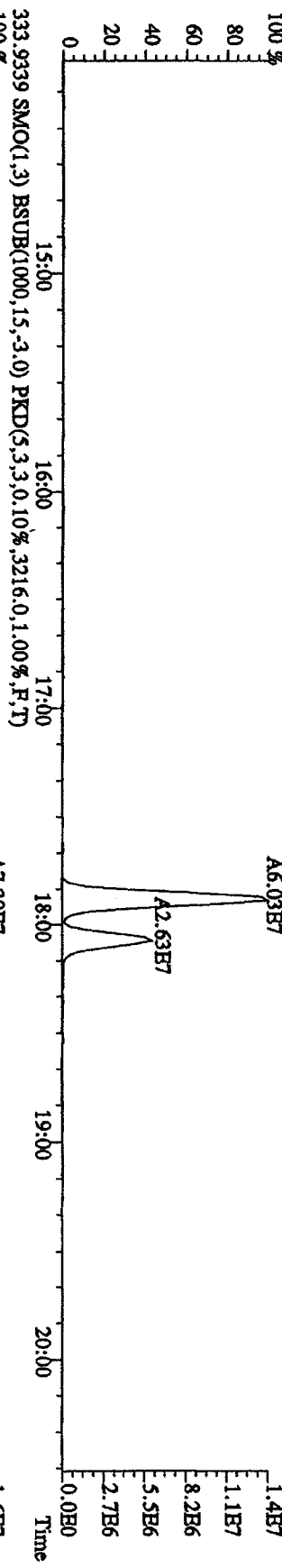
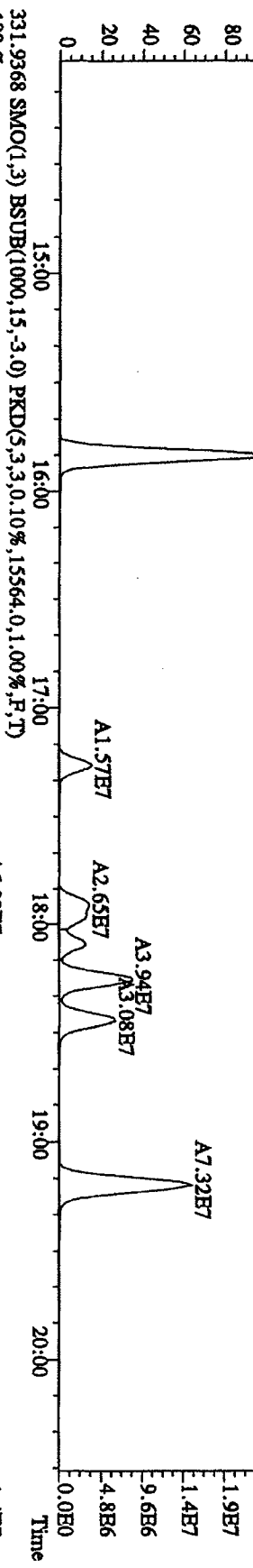
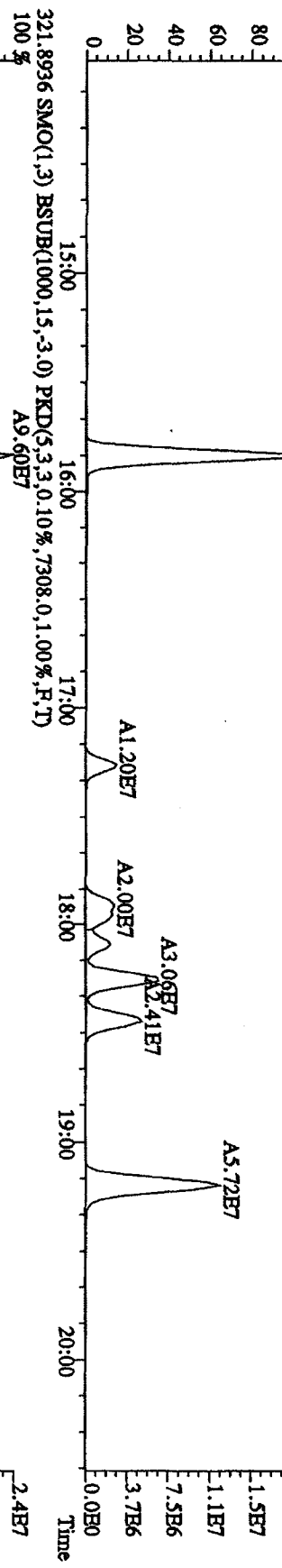
File: 27TL101D5 #1-196 Acq: 27-JUL-2010 13:06:44 GC: EI+ Voltage: SIR 70SE  
 Sample#8 Text: ST0727F : 2nd Source 10DXN340 Exp: DIOXINRES  
 454.9728 S: 8 F: 5 SMO(1.3) PKD(5.3, 3.100.00%, 0.0, 1.00%, F, T)



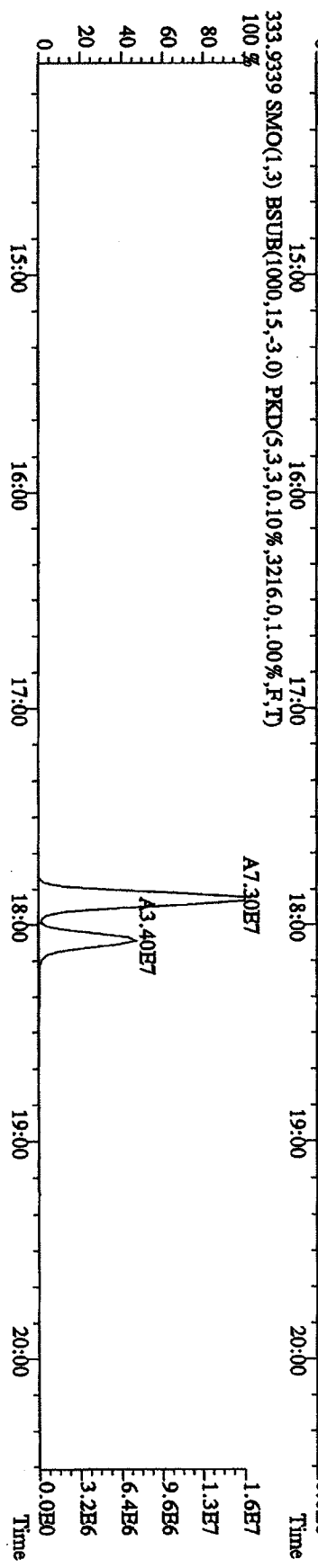
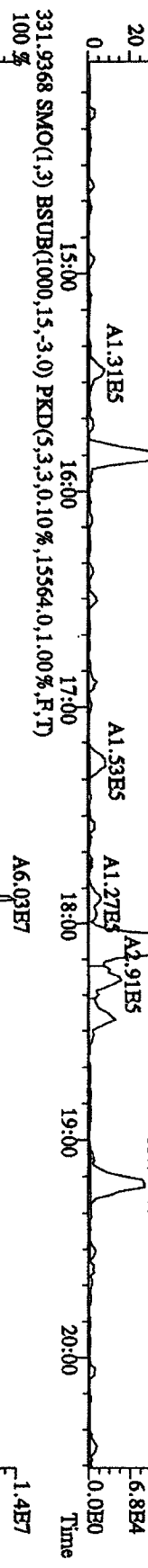
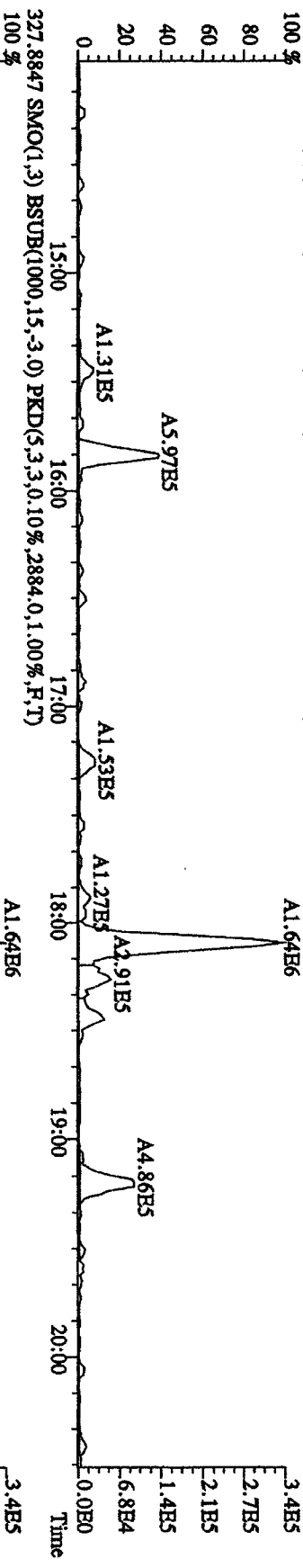
File:27JUL101D5 #1-382 Acq:27-JUL-2010 07:58:00 GC RI + Voltage SIR 70SE  
 Sample#1 Text:CP0727 :DB-5 CPISM 3732-07 Exp:DIOXINRES  
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4564,0,1,00%,F,T)  
 100 % A8.75E7



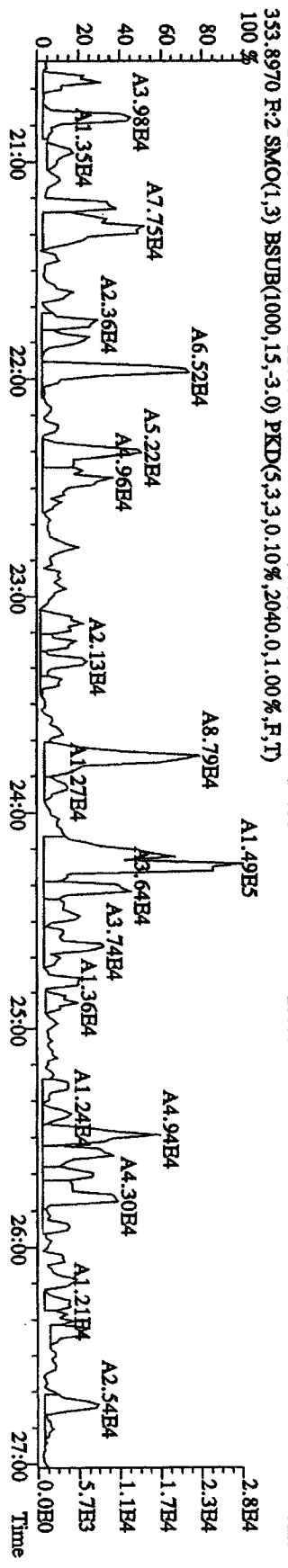
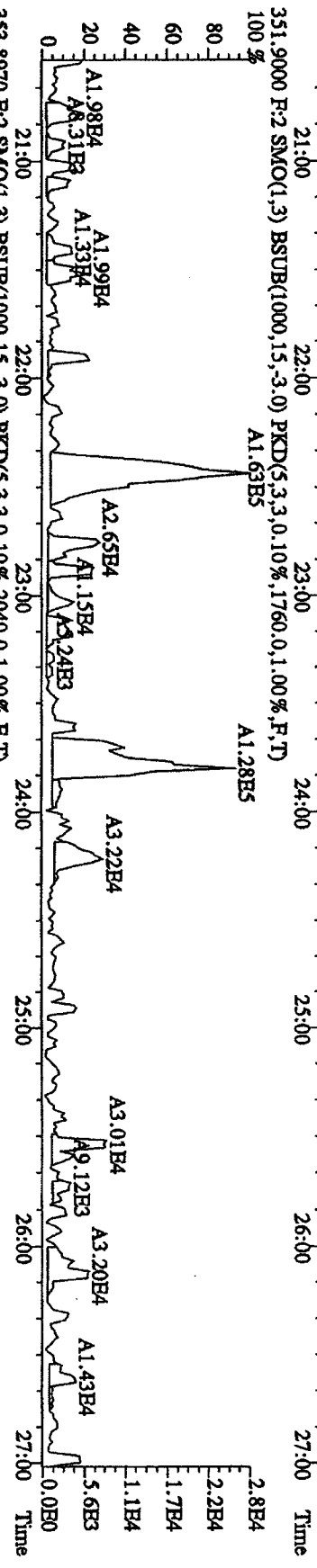
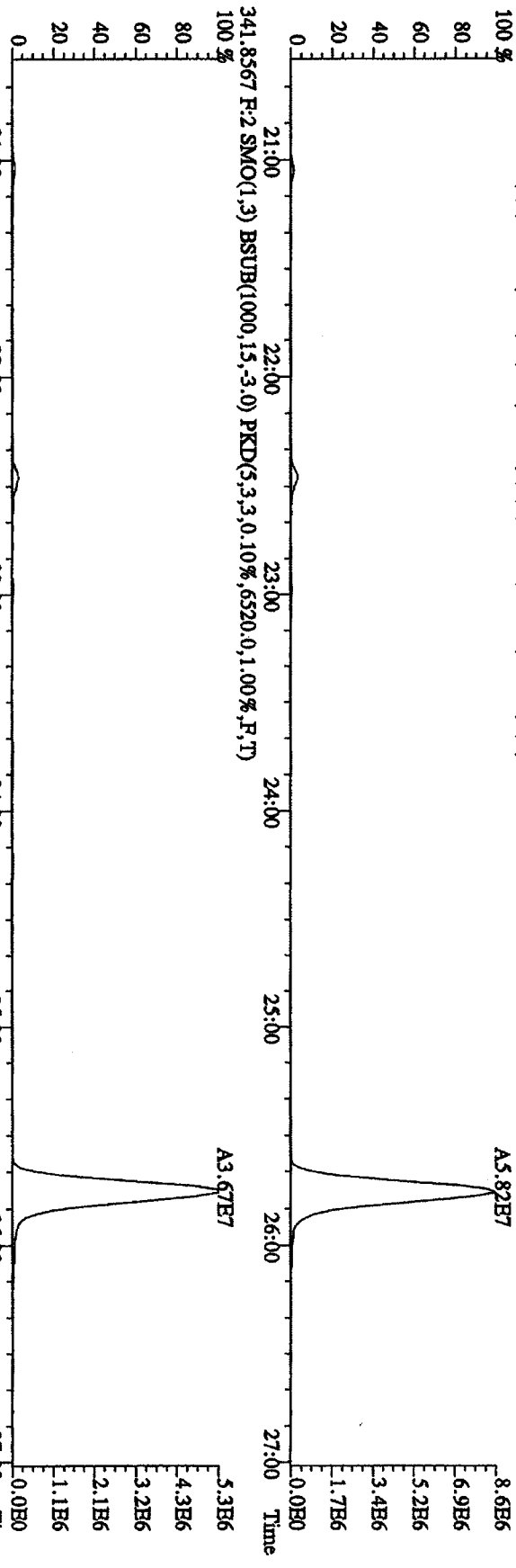
File: 27JL10ID5 #1-362 Acq: 27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0727 :DB-5 CPSM 3732-07 Exp: DIOXINRES  
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5344.0,1.00%,F,T)  
 100%



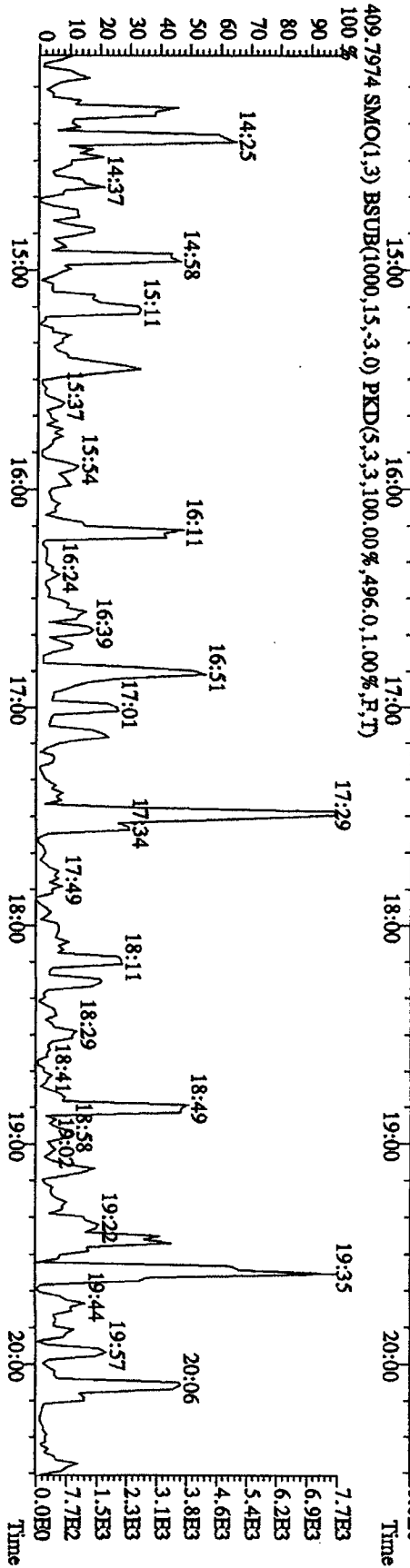
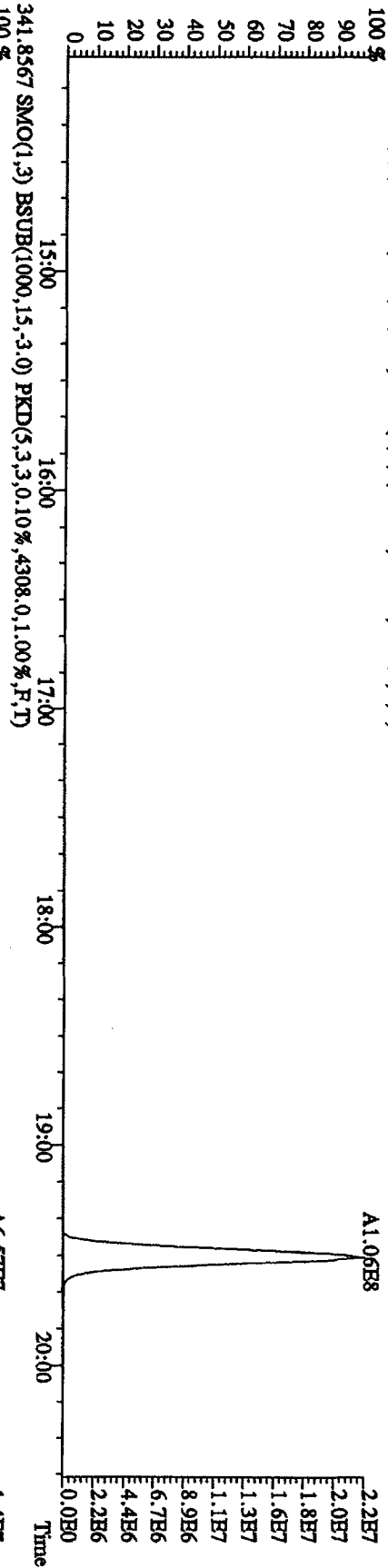
File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 07:58:00 GC HI + Voltage SIR 70SE  
 Sample#1 Text: CP0727 :DB-5 CP5M 3732-07 Exp: DIOXINRES  
 327.8847 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2884,0,1,00%,F,T)



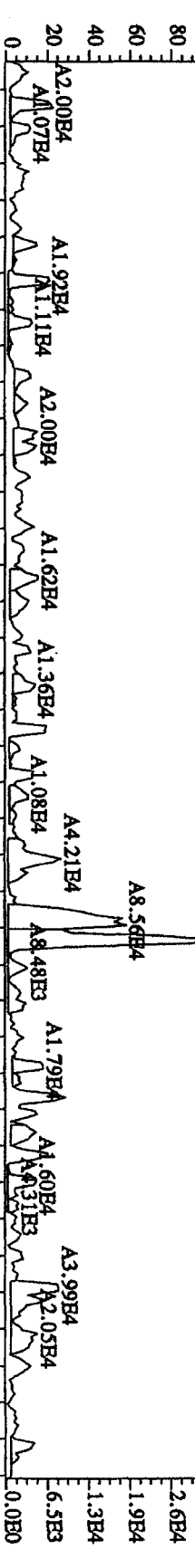
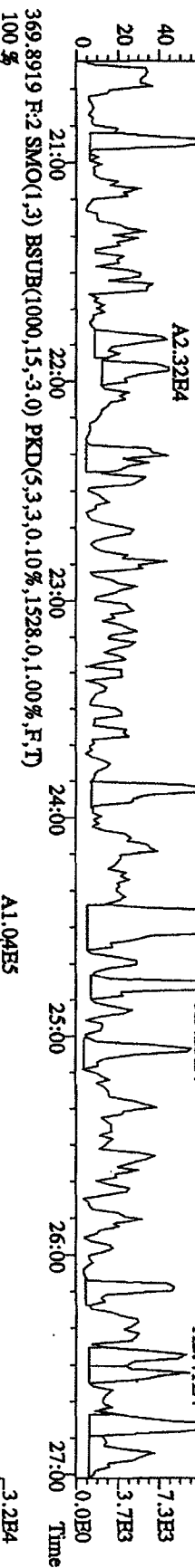
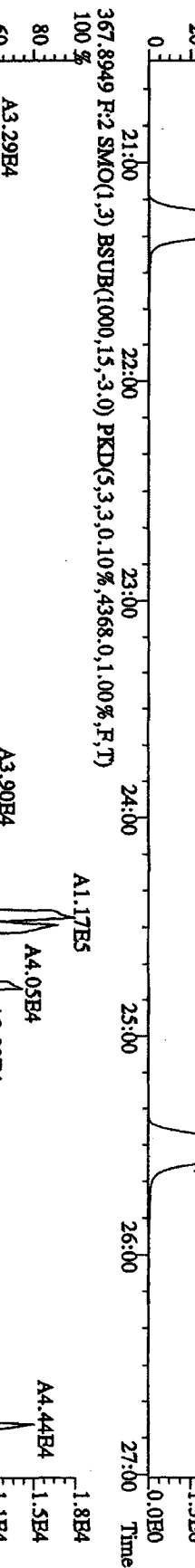
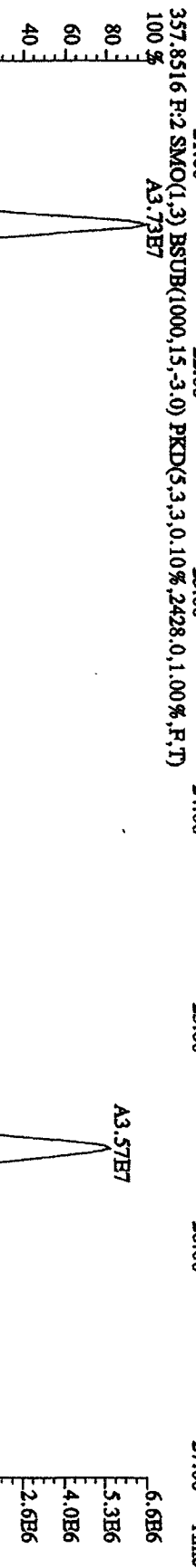
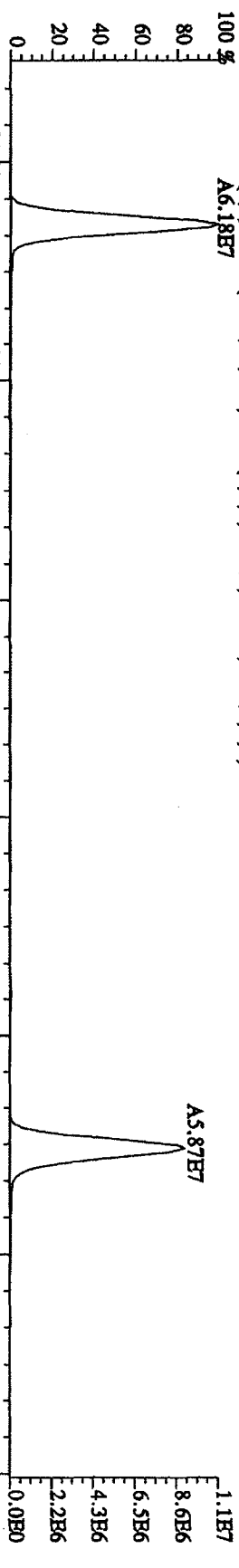
File:27JL101D5 #1-404 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SB  
Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES  
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4272.0,1.00%,F,T)



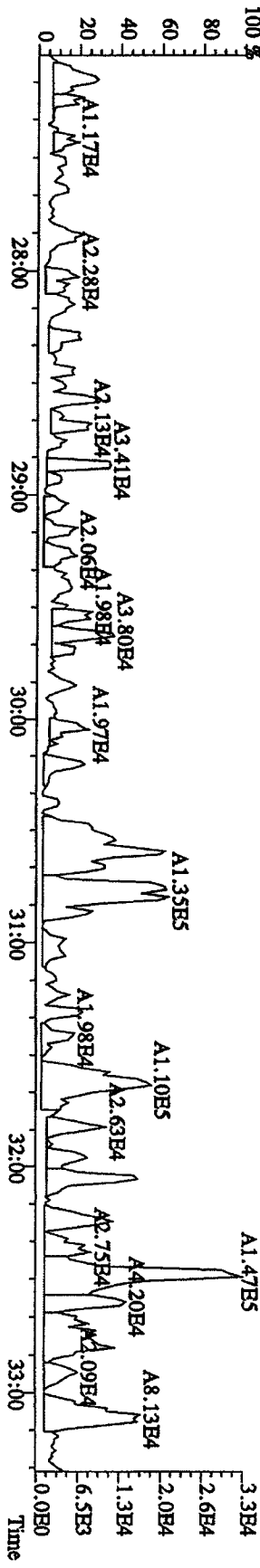
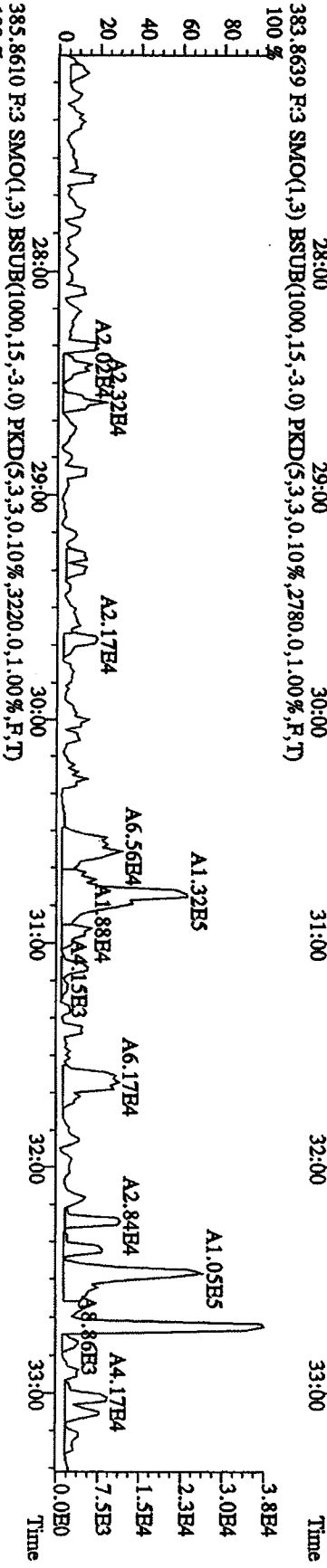
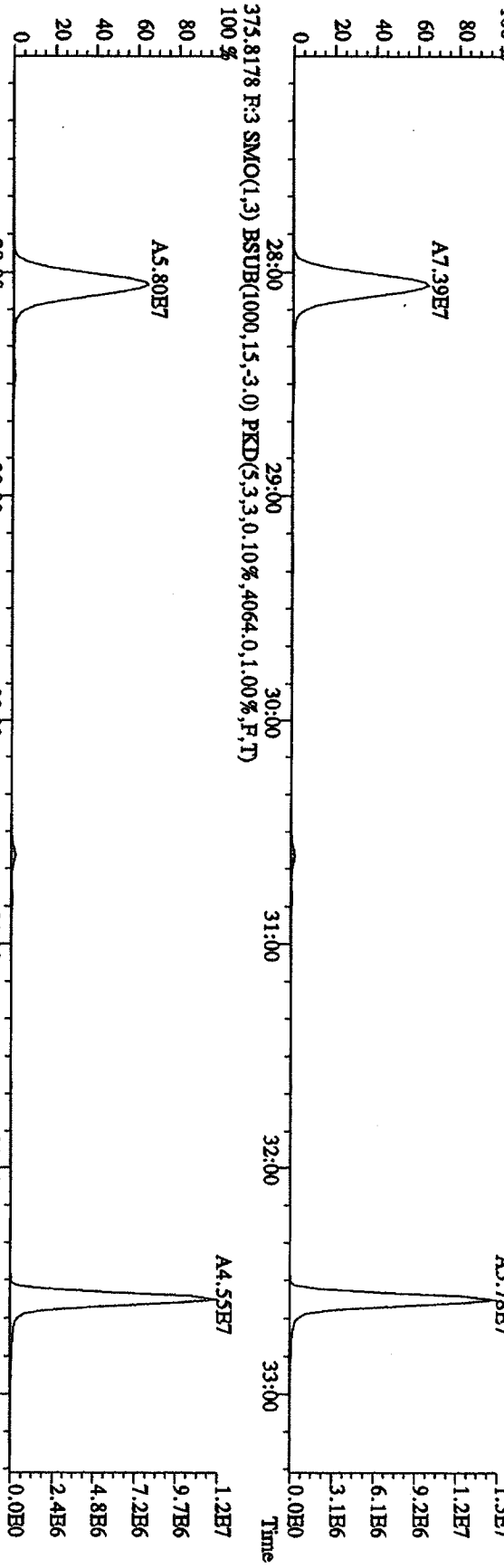
File: 27JUL101D5 #1-382 Acq: 27-JUL-2010 07:58:00 GC EI+ Voltage: 517V SR 70SE  
 Sample#1 Text: CP0727 :DB-5 CP/SM 3732-07 Exp: DIOXINRES  
 339.8597 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0.10%,2492.0,1.00%,F,T)



File:27JUL101D5 #1-404 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0727 :DB-5 CPMSM 3732-07 Exp:DIOXINRES  
 355.8546 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6832.0,1.00%,F,T)

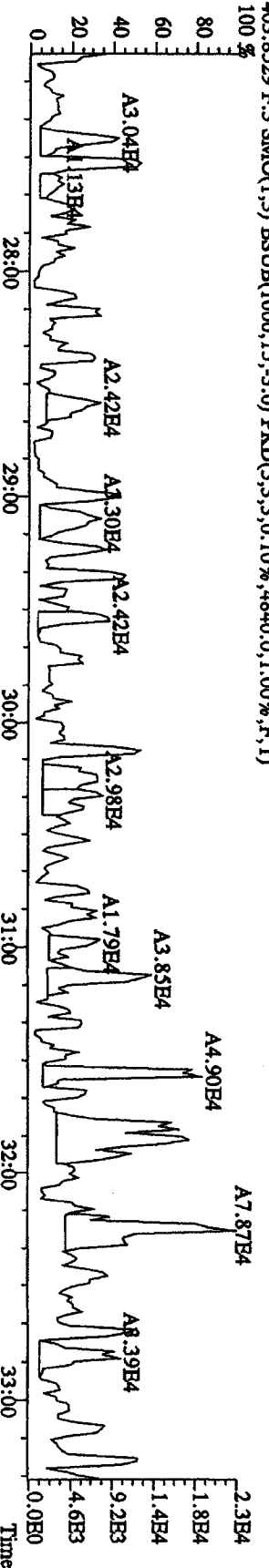
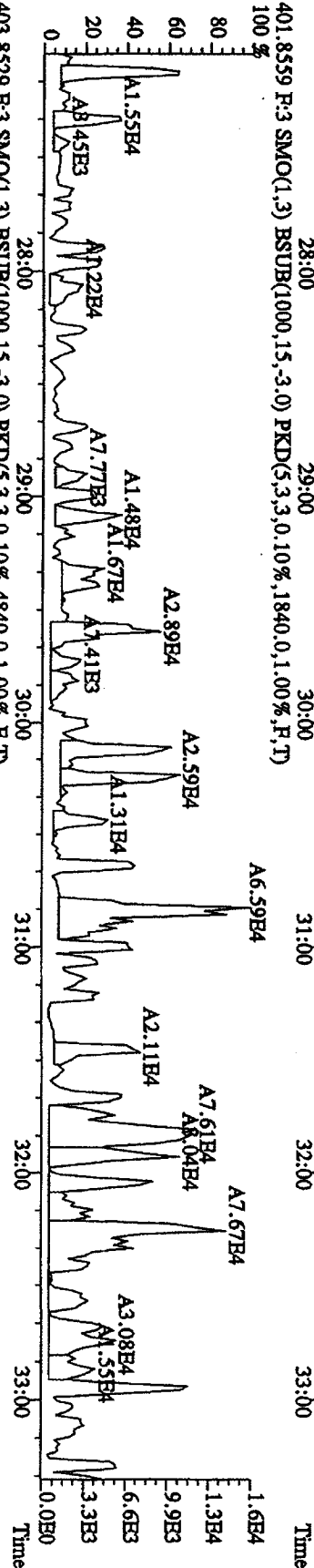
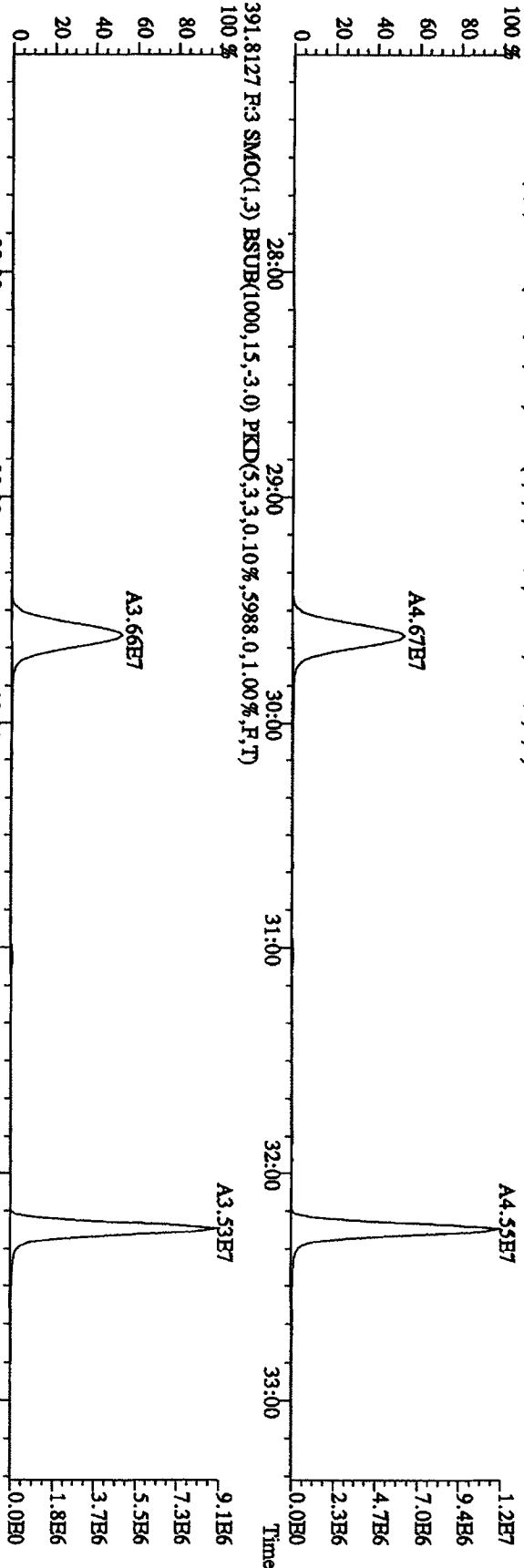


File:27JUL101D5 #1-406 Acq:27-JUL-2010 07:58:00 GC BE+ Voltage SIR 70SB  
 Sample#1 Text:CP0727 :DB-5 CP5M 3732-07 Exp:DIOXINRES  
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6440.0,1.00%,F,T)

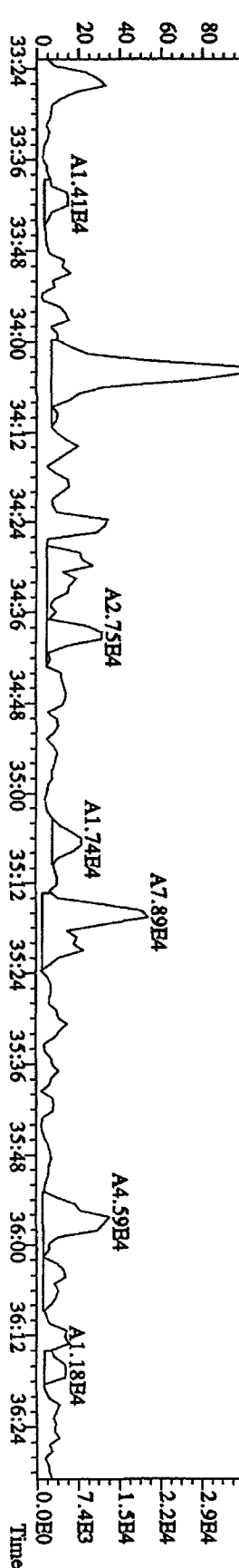
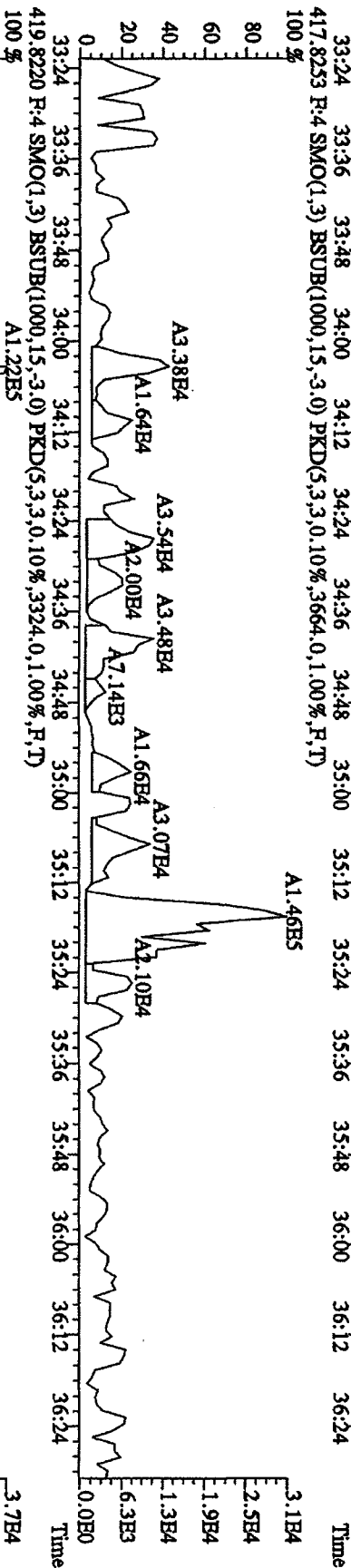
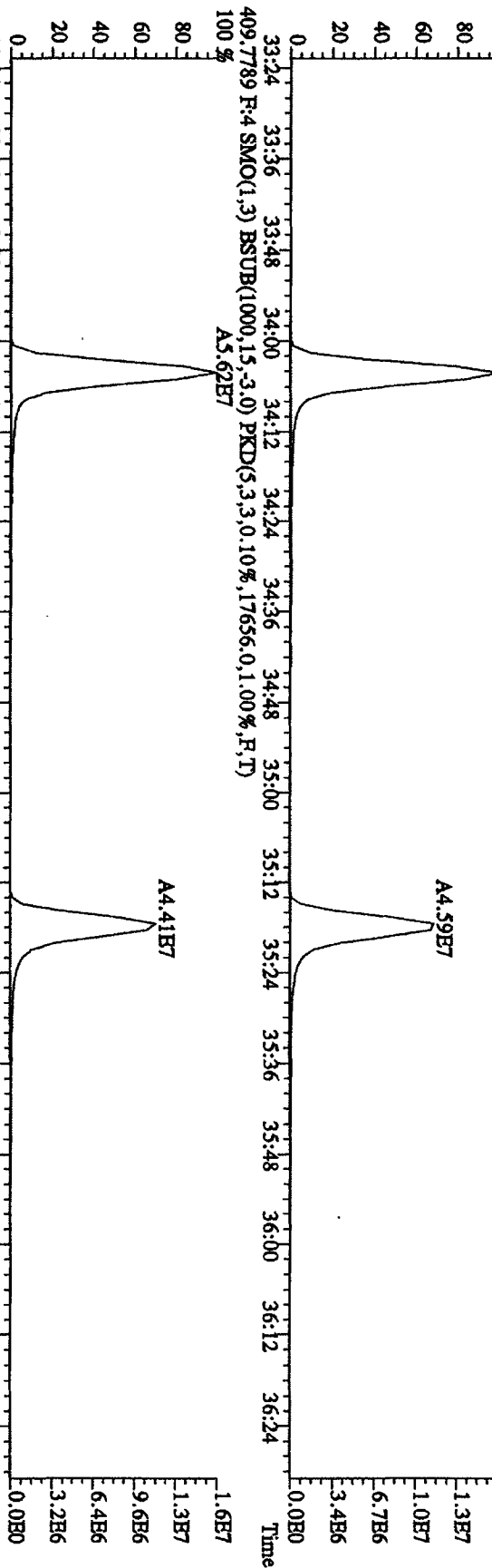




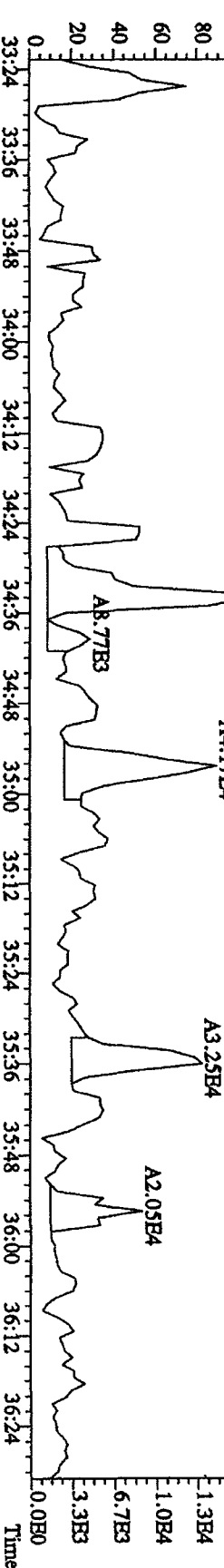
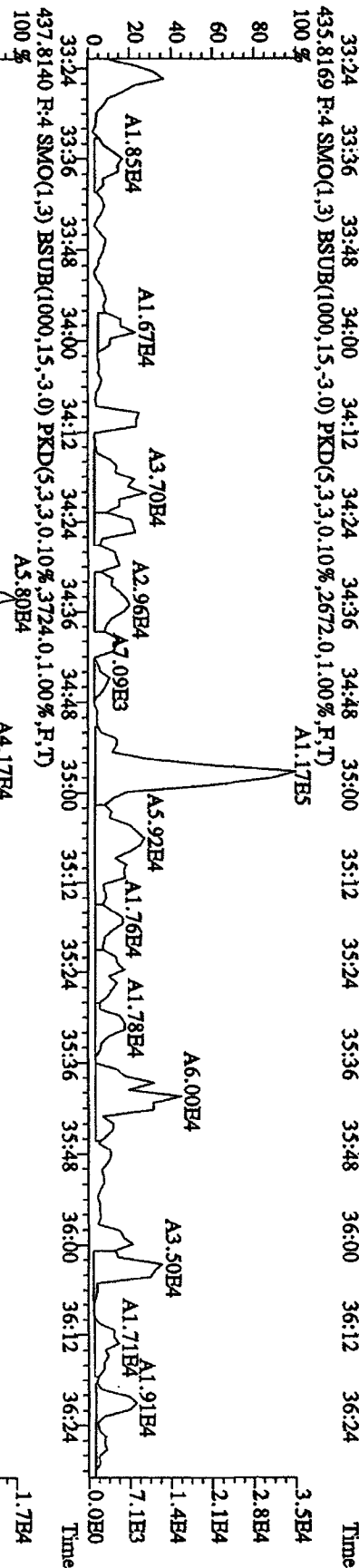
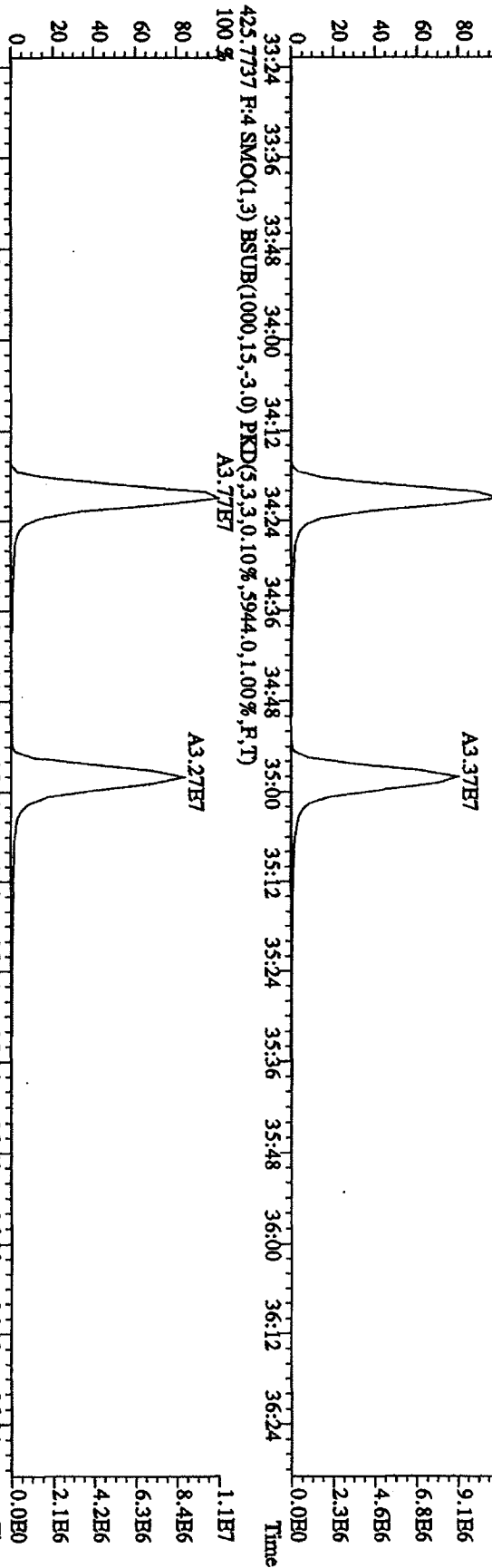
File:27JUL101D5 #1-406 Acq:27-JUL-2010 07:58:00 GC HI + Voltage SIR 70SE  
 Sample#1 Text:CP0727 :DB-5 CP5M 3732-07 Exp:DIOXINES  
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5516,0.1,00%,F,T)



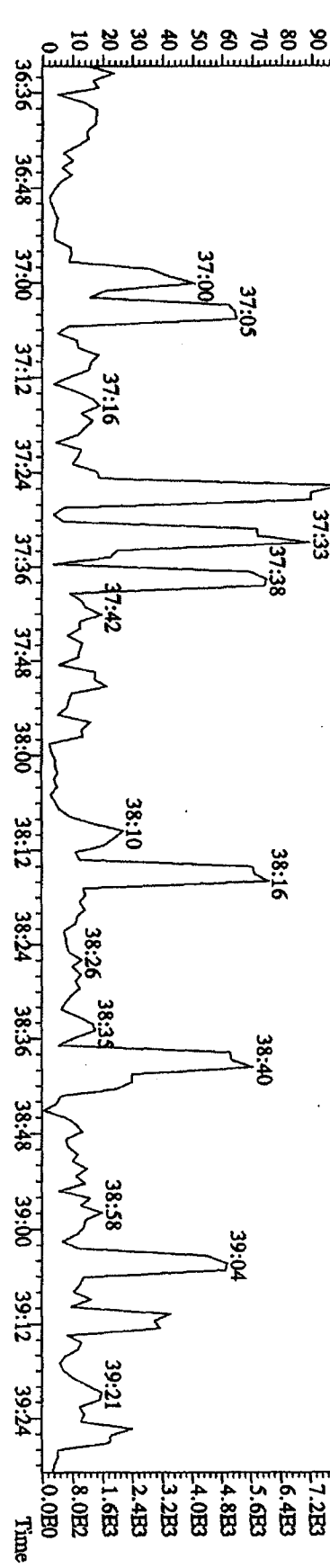
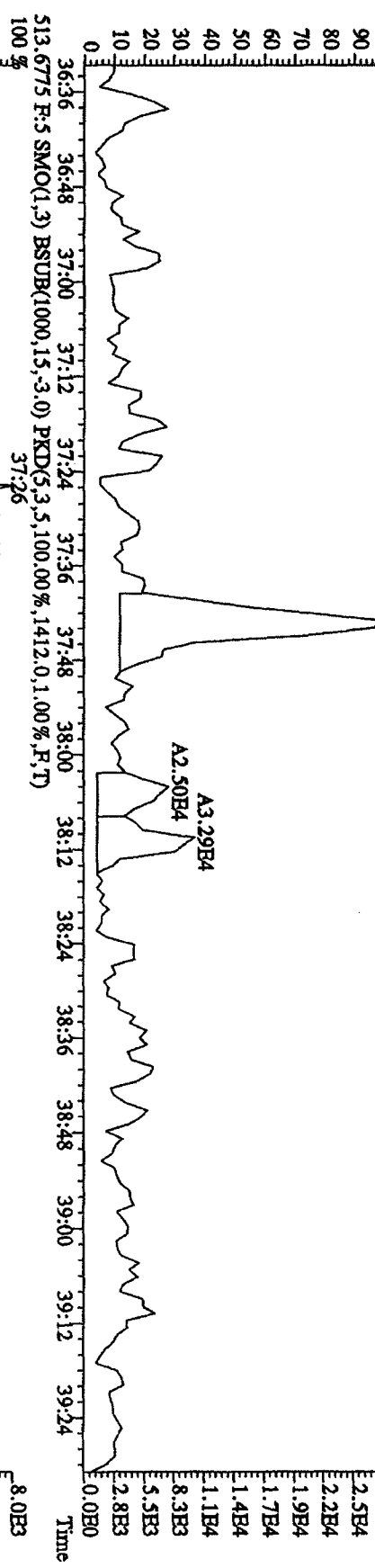
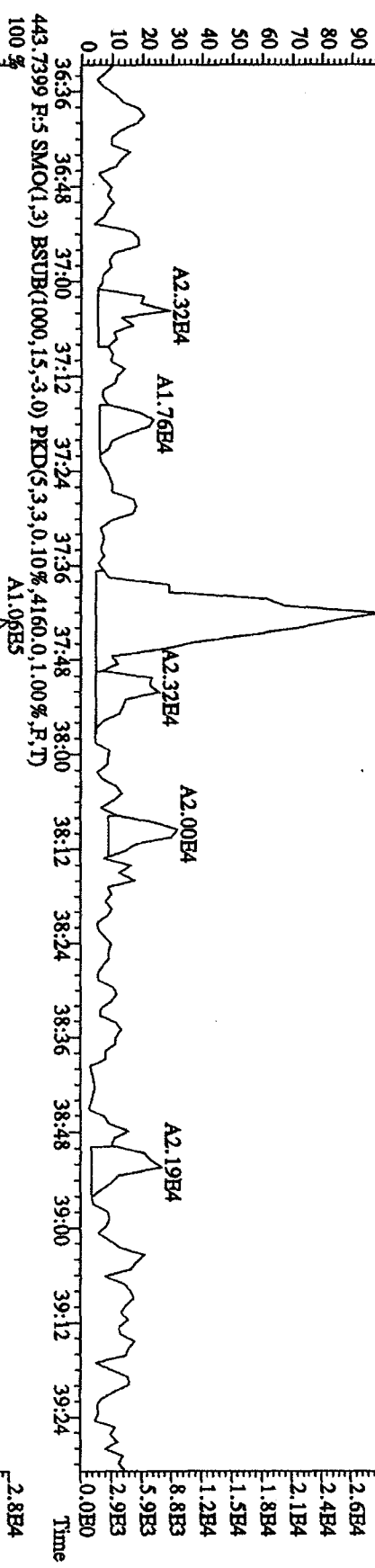
File:27IL101D5 #1-214 Acq:27-JUL-2010 07:58:00 GC EI + Voltage SIR 70SB  
 Sample#1 Text:CP0727 :DB-5 CPSM 3732-07 Exp:DIOXINRES  
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,16016,0,1.00%,F,T)  
 100% A5.83E7



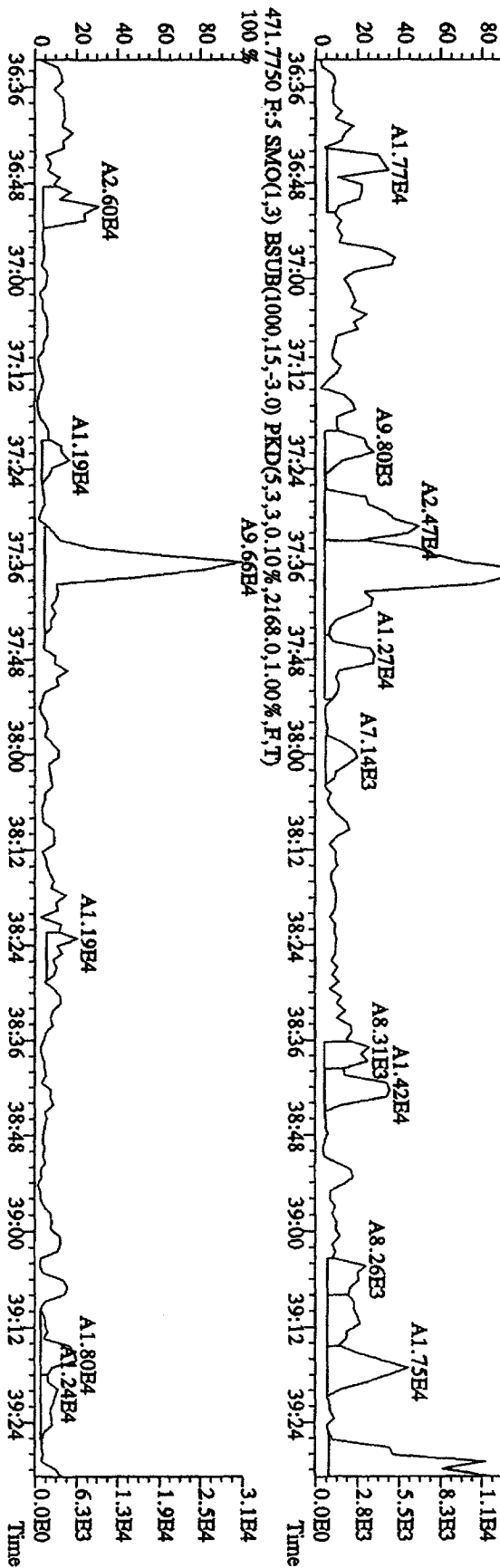
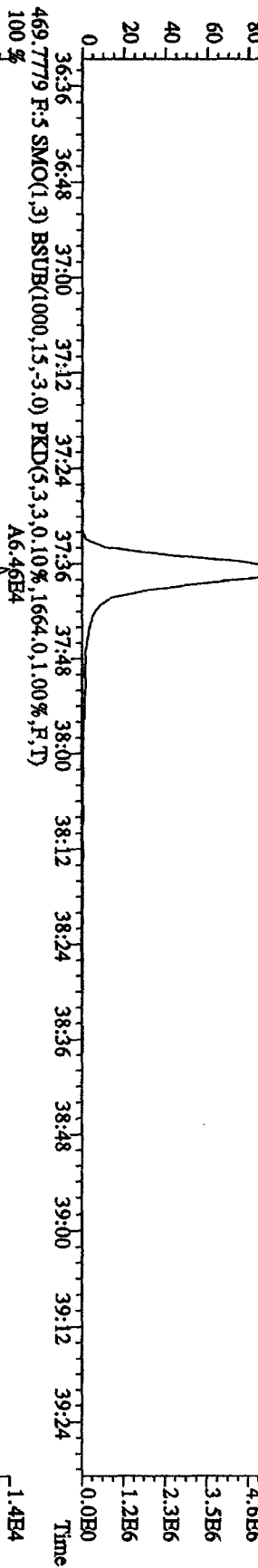
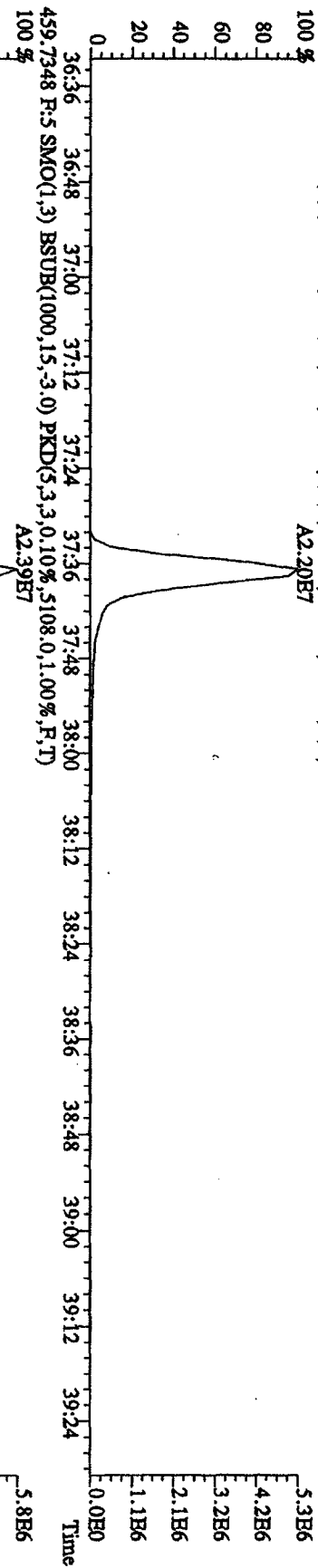
File:27TL101D5 #1-214 Acq:27-JUL-2010 07:58:00 GC EI + Voltage SIR 70SE  
 Sample#1 Text:CP0727 DB-5 CP5M 3732-07 Exp:DIOXINRES  
 423.7766 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(3,3,0.10%,6612.0,1.00%,F,T)  
 100%



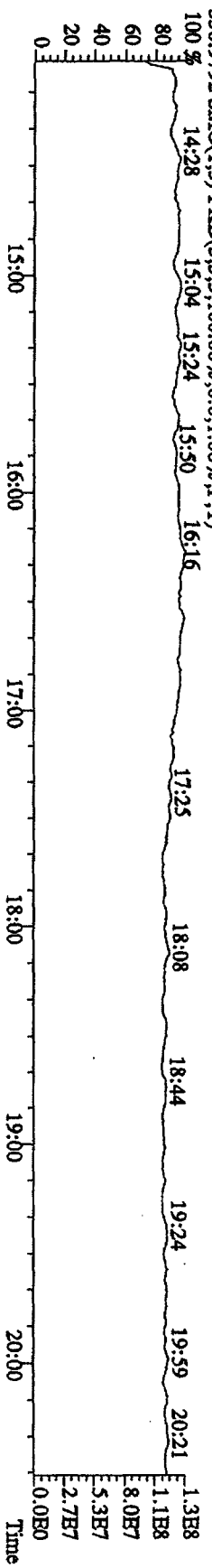
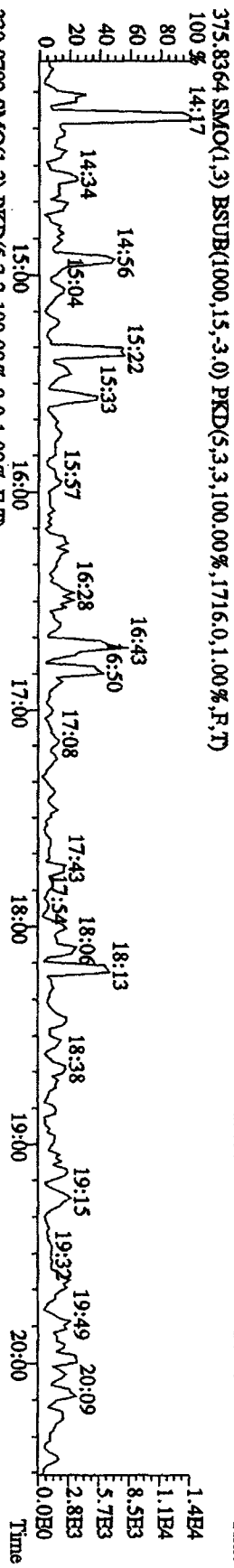
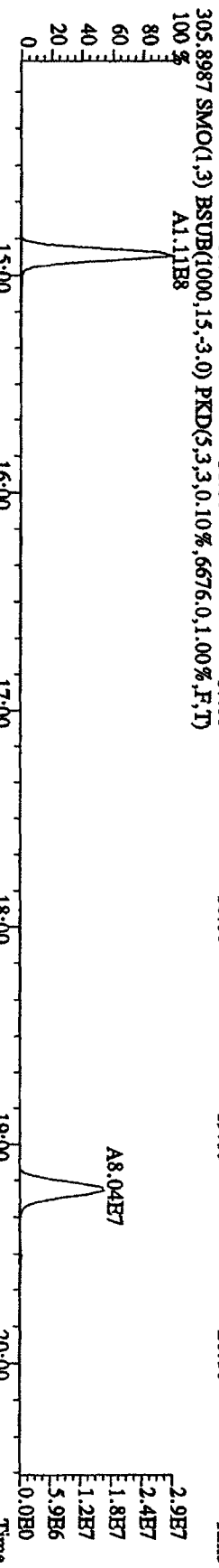
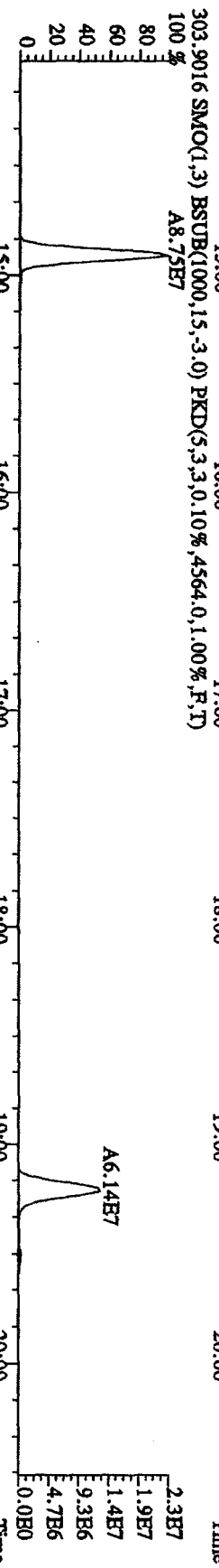
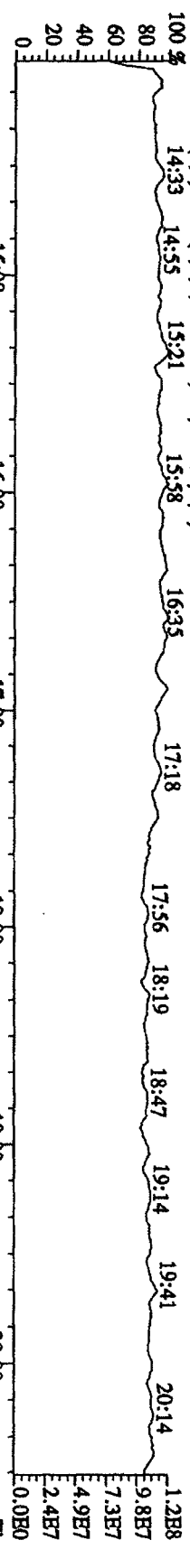
File: 27JUL101D5 #1-196 Acq: 27-JUL-2010 07:58:00 GC HI + Voltage SIR 70SE  
 Sample #1 Text: CP0727 :DB-5 CP5M 3732-07 Exp: DIOXINRES  
 441.7428 F-5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3532.0,1.00%,F,T)  
 100 %



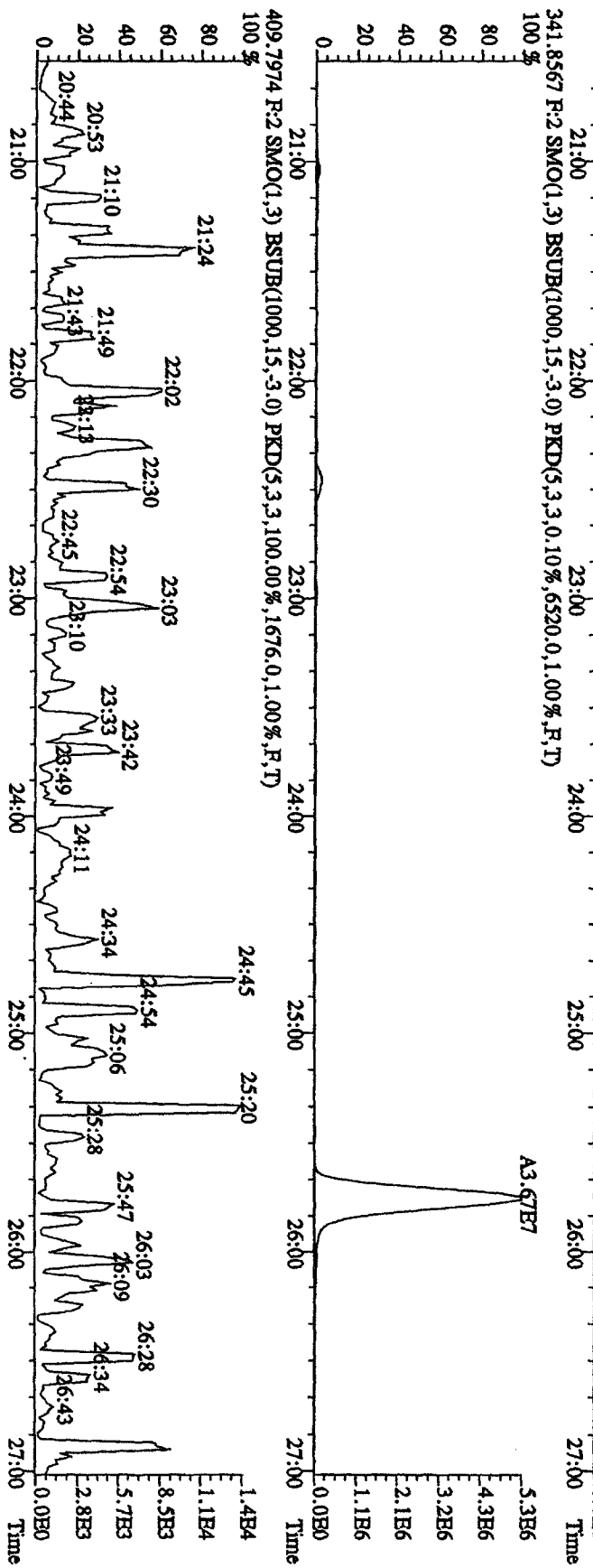
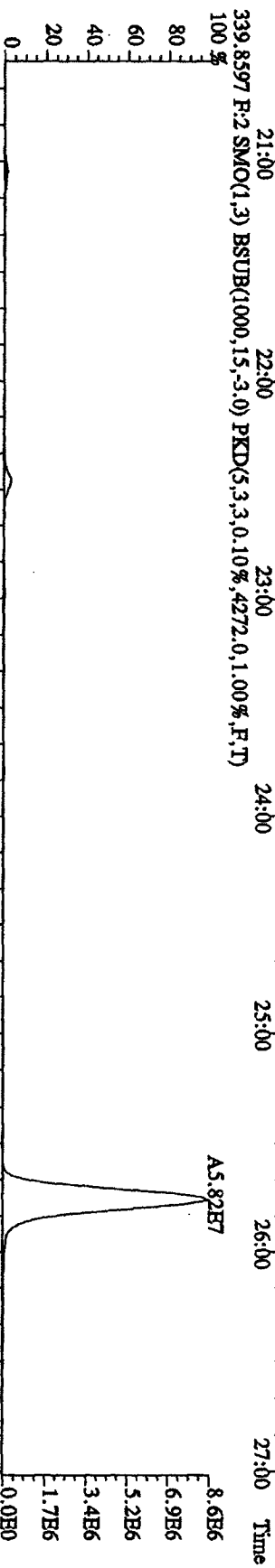
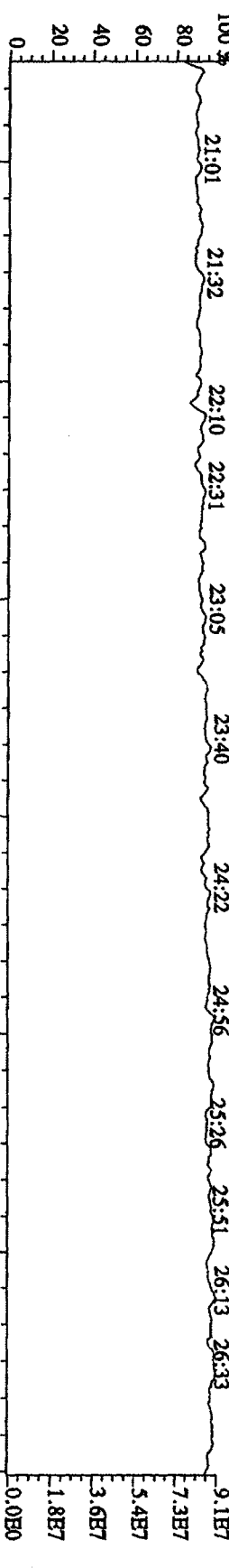
File:27JL101D5 #1-196 Acq:27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE  
 Sample#1 Text:CP0727 :DB-5 CFSM 3732-07 Exp:DIOXINRES  
 457.7377 F:5 SMO(1,3) BSUBR(1000,15,-3,0) PKD(5,3,3,0,10%,3812.0,1.00%,F,T)  
 100 %



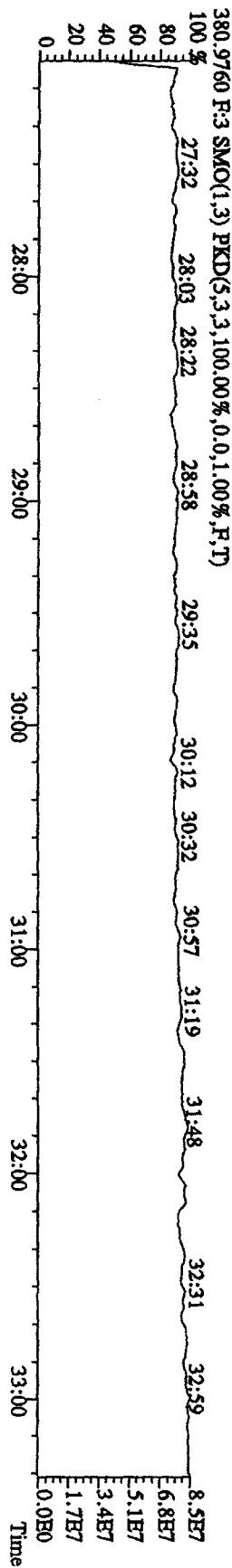
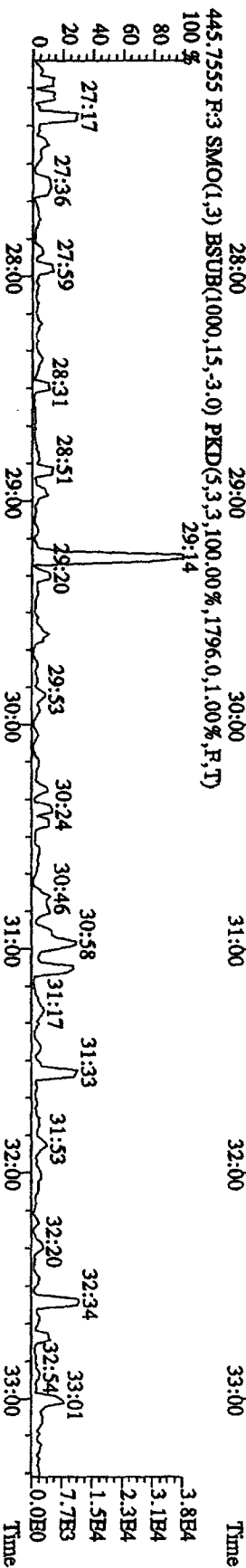
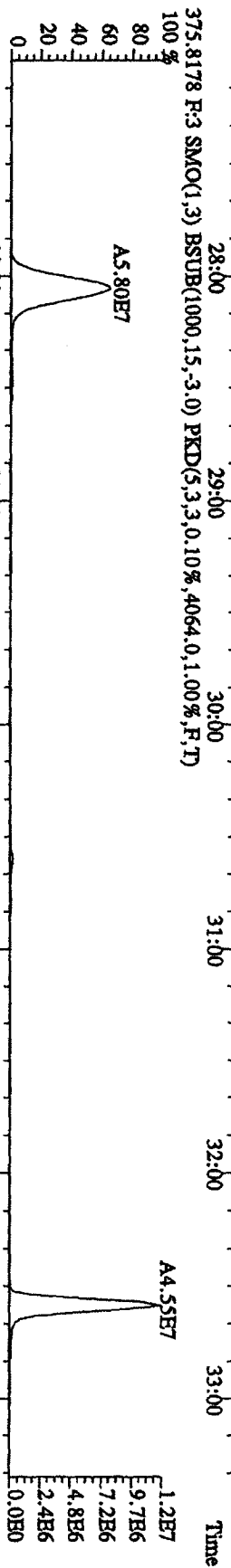
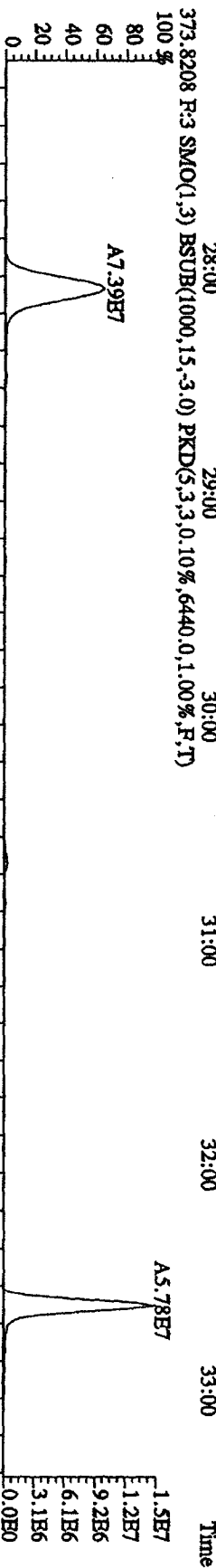
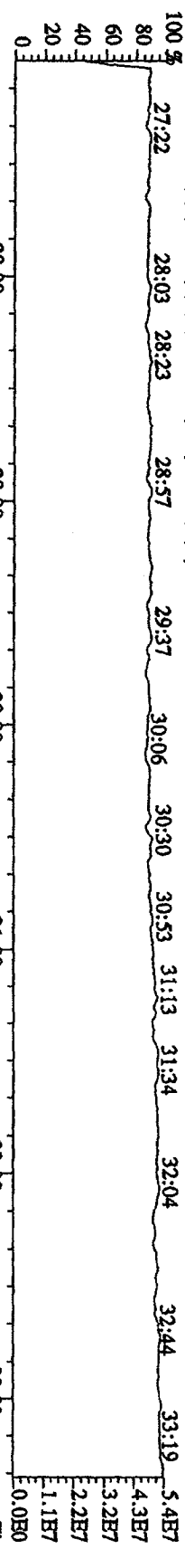
File: 271L101D5 #1-382 Acq: 27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0727 :DB-5 CP8M 3792-07 Exp.: DIOXINRES



File: 27JL101D5 #1-404 Acq: 27-JUL-2010 07:58:00 GC HI+ Voltage SIR 70SE  
 Sample#1 Text: CP0727 :DB-5 CPSM 3732-07 Exp: DIOXINRES  
 342.9792 F:2 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)

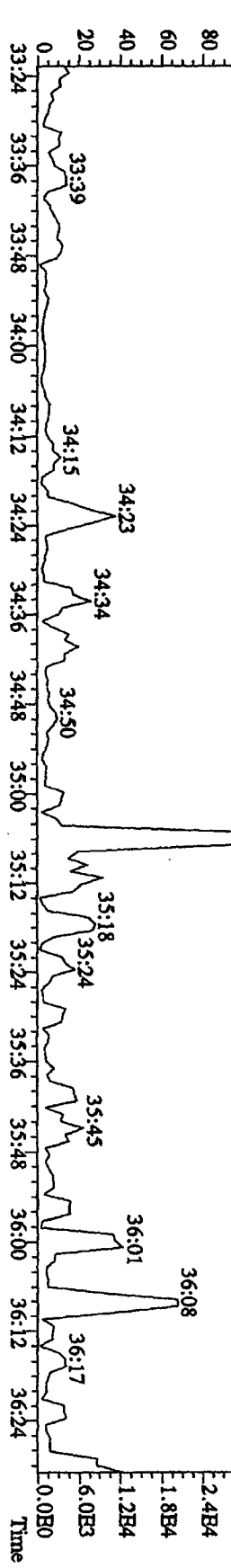
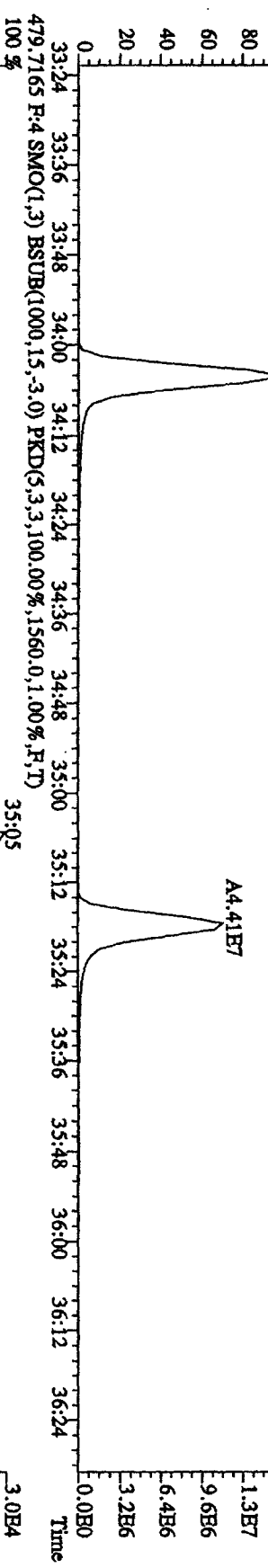
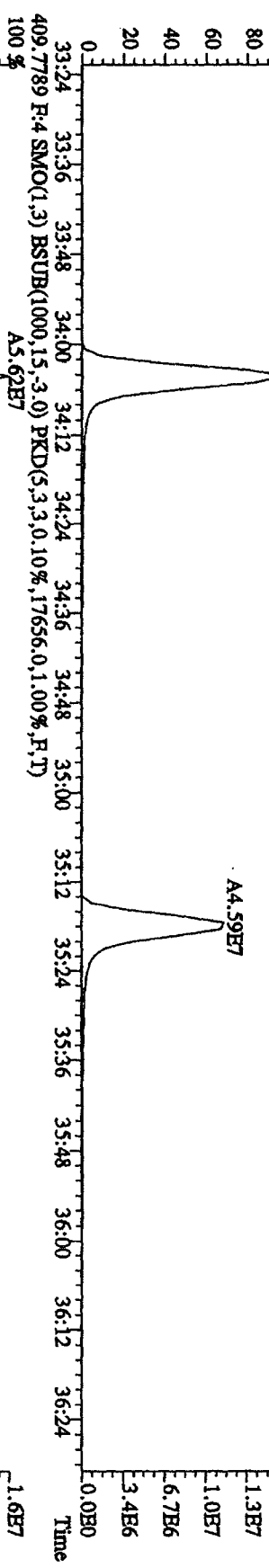
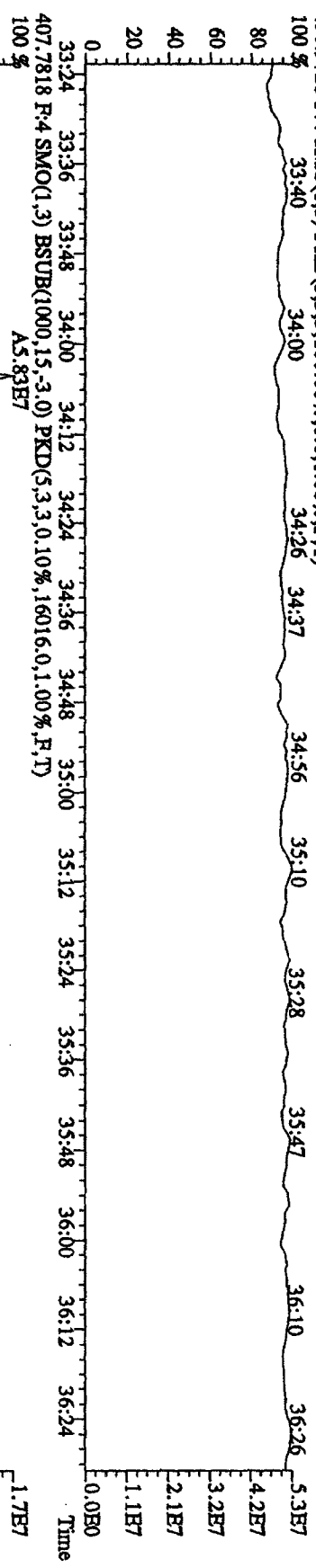


File: 27JL101D5 #1-406 Acq: 27-JUL-2010 07:58:00 GC HI + Voltage SIR 70SB  
 Sample#1 Text: CP0727 :DB-5 CFSM 3732-07 Exp: DIOXINRES

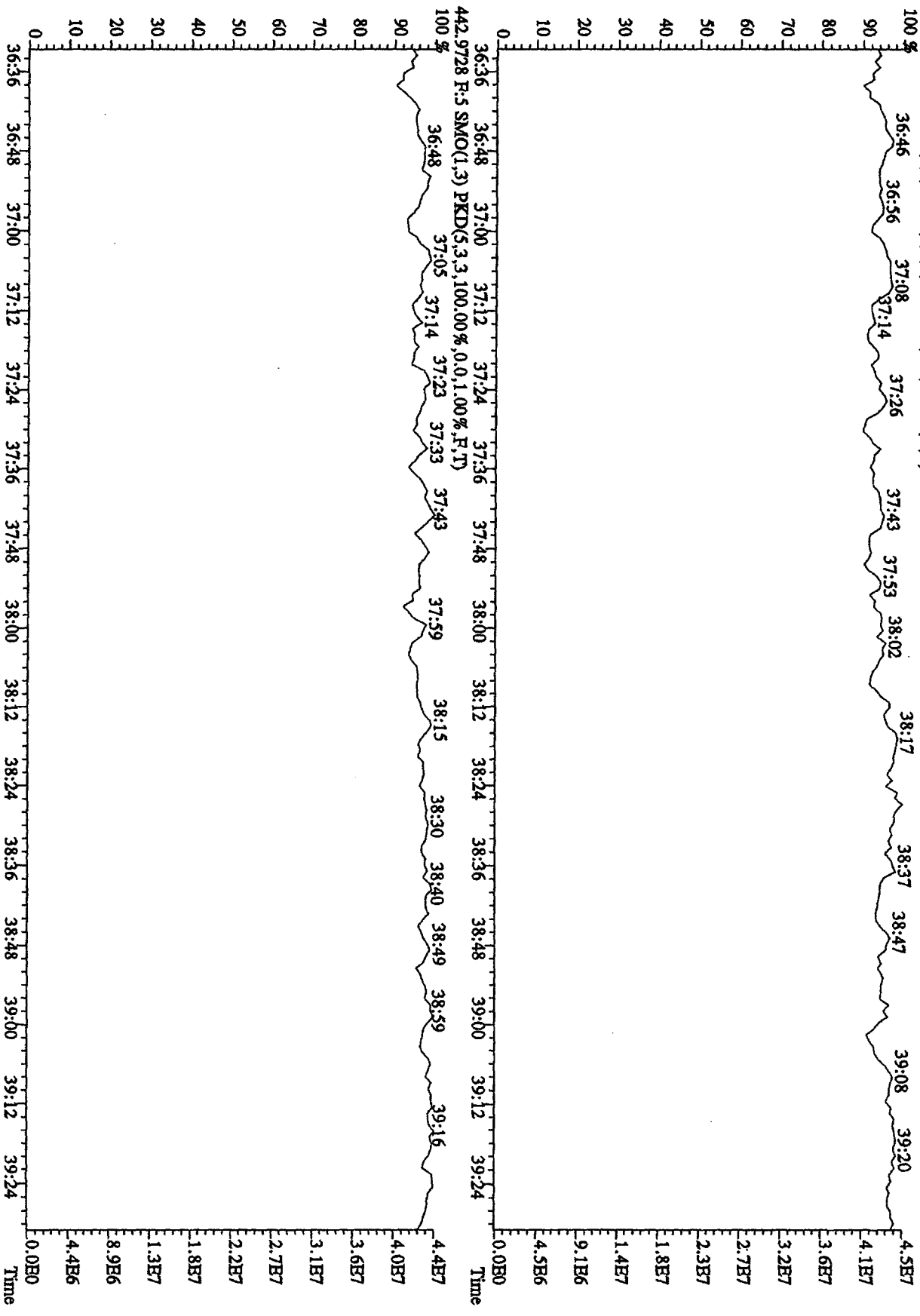




File: 27JUL101D5 #1-214 Acq: 27-JUL-2010 07:58:00 GC HI + Voltage SIR 70SE  
 Sample#1 Text: CP0727 : DB-5 CPSM 3732-07 Exp: DIOXINRES  
 430.9728 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)  
 100%



File: 27IU.101D5 #1-196 Acq: 27-JUL-2010 07:58:00 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0721 :DB-5 CPSM 3732-07 Exp: DIOXINRES  
 454.9728 F:5 SMO(1,3) PKD(S,3,3,100.00%,0.0,1.00%,F,T)



Are there any Associated Samples or Batches with this Set of Samples?

Yes \_\_\_\_\_  
No \_\_\_\_\_

**TestAmerica West Sacramento**  
**ADVANCED TECHNOLOGY**  
**LOW/HIGH RESOLUTION ANALYSIS**

**G0H260509**

**# 1**

**City of Corvallis Public Works**

BATCH: \_\_\_\_\_

MS Run#: \_\_\_\_\_

Extract Box Location: \_\_\_\_\_

Date to Instruments: \_\_\_\_\_

**Total Samples: 1 of 1**

**Set: 1 of 1**

**QAS Release Date: 8/27/2010**

**Expected Date:**

**Project Manager:** David R. Alltucker

**Client Name:** City of Corvallis Public Works

**Quote Number:** 41622

**Project Site:** City of Corvallis

**Deliverable Info:** STL Sacramento Standard Report

**Method Desc:** L1 Dioxins/Furans, HRGC/HRMS (1613B-Tetras Onl

**QC Desc:** 01 STANDARD TEST SET

**Matrix Desc:** I WATER

**Location:** W23A

**Extraction Desc:** 09 LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - N

**Extraction Analysis:** DX1613\_L

**Dioxin Reporting:** Reporting Limits

**Date Received:** 8/26/2010

**Date Log Released:** 8/27/2010

**Date Subbed:** 8/27/2010

**Turnaround Time:** 19

**Prep Due:** Tuesday, Aug 31 2010

**Ops Due:** Tuesday, Sep 14 2010

**Report Due:** Thursday, Sep 16 2010

Prep Comments from Quote

Analysis Comments from Quote

Reporting Comments from Quote

Data Entry Comments from Quote

Prep Comments from QAS

Drinking water.

Analysis Comments from QAS

RL=5.0 pg/L

Air Prep Comments from QAS

# G0H260509

Samp #	Suff	Work Order	Sample Description	Container information		Sampling Date	Hold Time for Method	Date Hold Time Expires
1		L56K41AA	TAYLOR CLEARWELL FINISH 10	2	2-AGB	8/25/2010	365	8/25/2011

## Initial Calibration Checklist Dioxin Methods

ICAL ID (DB225, DB225AIR)0726105D2

Method ID 8290, 1613B, 23, 0023A, TO9, Date Scanned \_\_\_\_\_  
TESTAS, 8290A

Column ID DB225 Instrument ID 5D2

STD ID's ST0726 (A, B, C, E)<sup>D</sup> STD Solution 10DXN342, 10DXN335, 10DXN336, 10DXN337

GC Program DB225 Multiplier Setting 750

Analyzed By KSS Date Analyzed 7-26-10

Prepared By KSS, NIK Date Prepared 7-26-10

Reviewed By KSS Date Reviewed 7/26/10

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?	N/A	N/A

COMMENTS:

CS3 13C-1, 2, 3, 4 - TCDD RT = 15:10

\*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: 21AP105D2 Analyte: DB225AIR Cal: DB225AIR0726105D2

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

Run #1    Filename 26JL105D2    S: 6    I: 1  
Acquired: 26-JUL-10 11:25:40    Processed: 26-JUL-10 13:54:47  
Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2  
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
37C1-2,3,7,8-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 13:54:47  
 Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2

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	1.236	2.00	n



Run #3    Filename 26JL105D2    S: 7    I: 1  
 Acquired: 26-JUL-10 11:59:28    Processed: 26-JUL-10 13:54:48  
 Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2

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
37C1-2,3,7,8-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 13:54:49  
Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2

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	1.278	40.00	n

Run #5    Filename 26JL105D2    S: 8    I: 1  
 Acquired: 26-JUL-10 12:33:16    Processed: 26-JUL-10 13:54:50  
 Run: 21AP105D2    Analyte: DB225AIR    Cal: DB225AIR0726105D2

Comments:

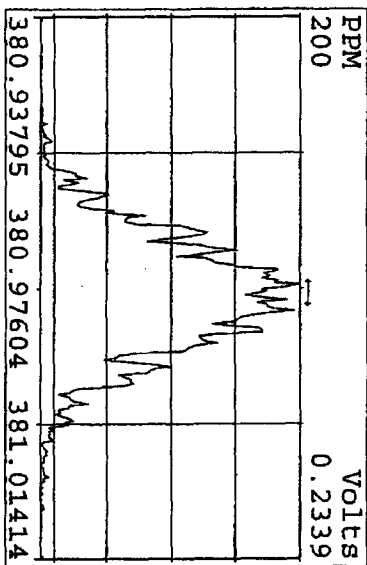
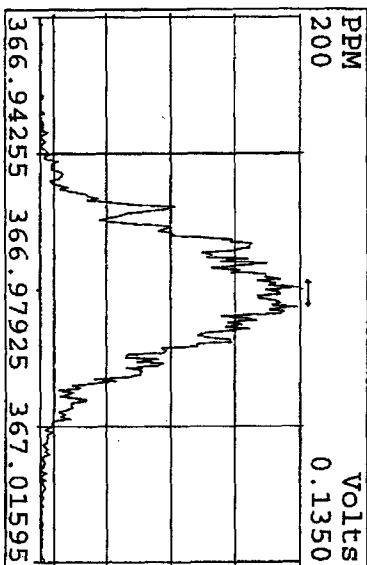
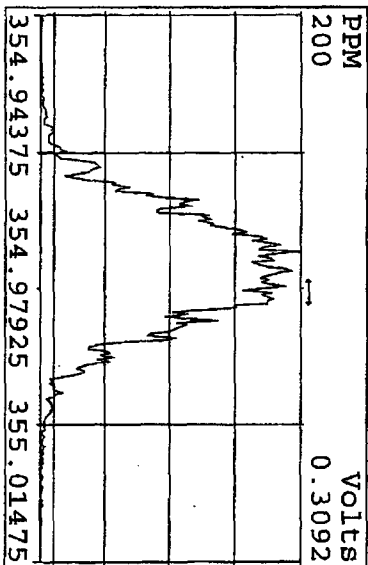
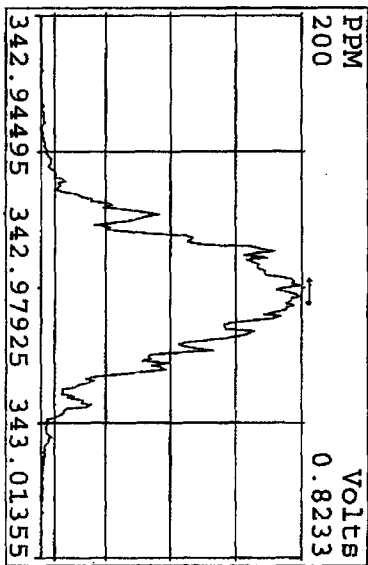
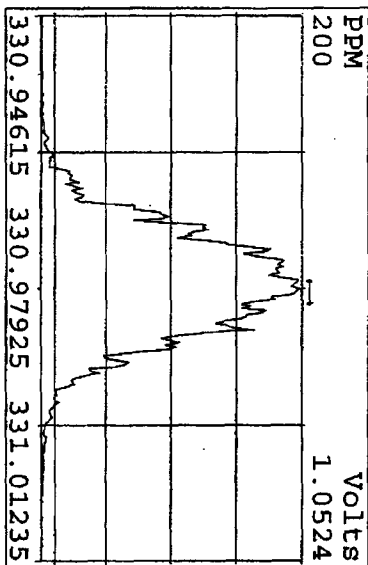
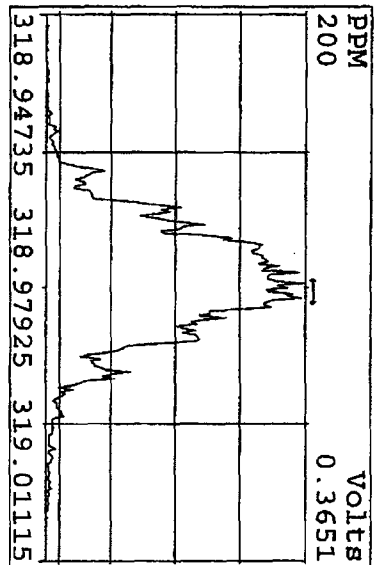
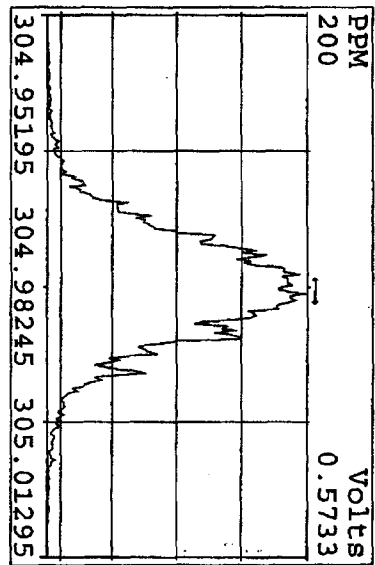
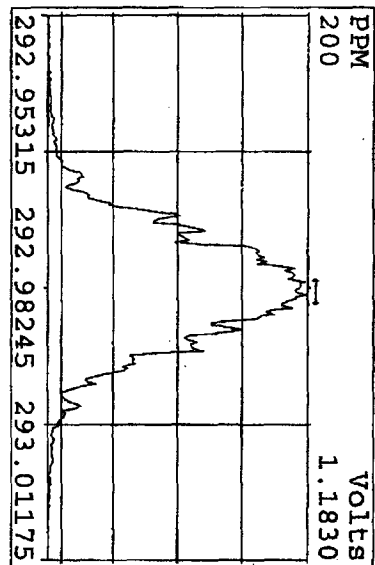
Sample text: ST0726D :CS-5 10DXN339

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

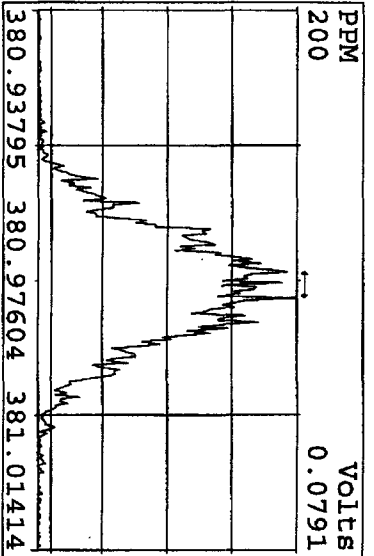
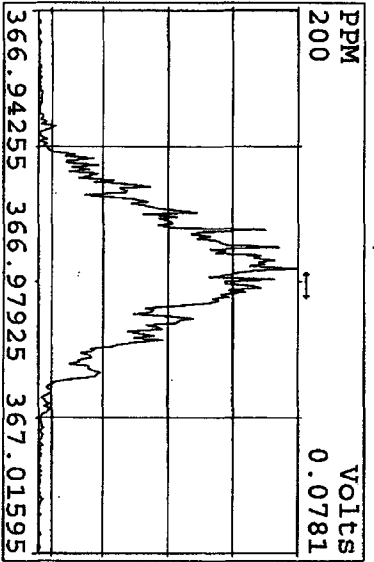
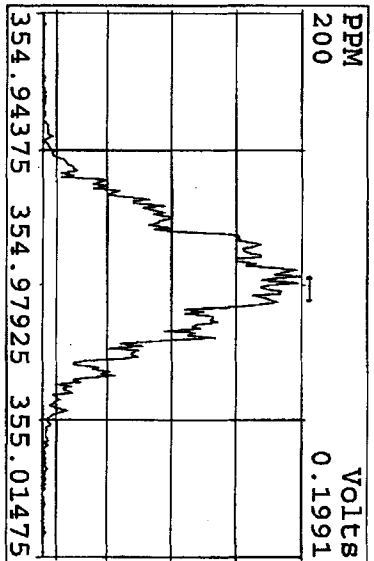
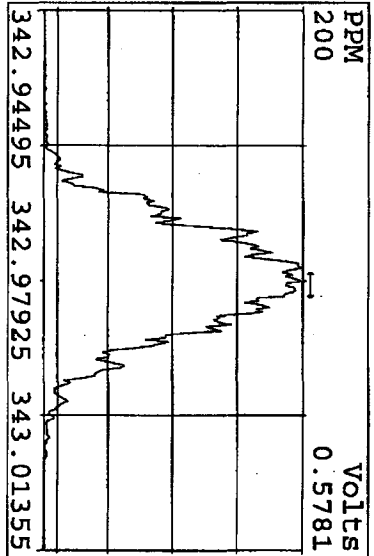
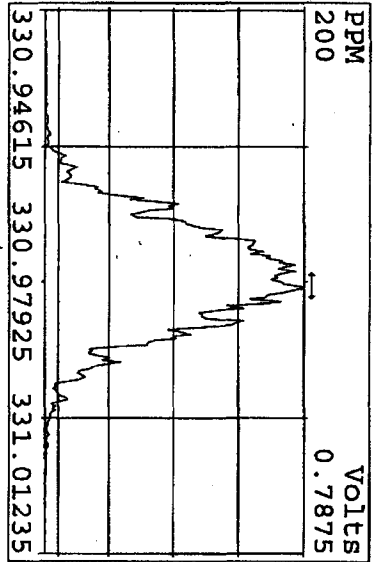
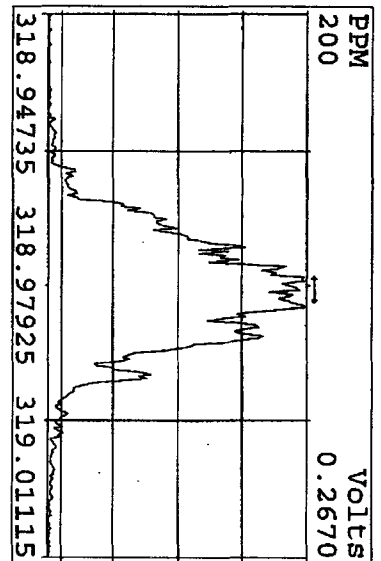
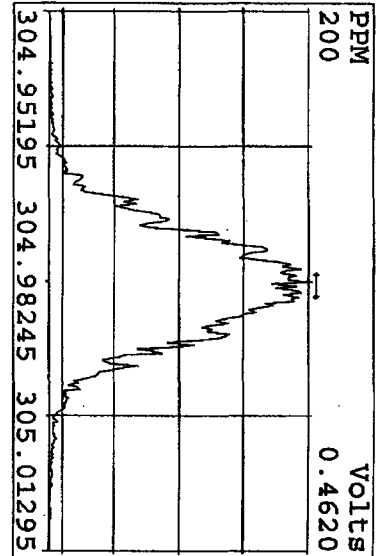
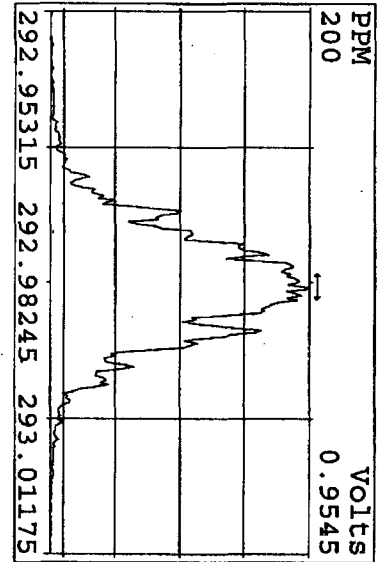
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
26JL105D2	1	CP0726	DB-225 CPSM 3732-06				1.0000	
26JL105D2	2	SB0726	Solvent Blank C-14				1.0000	
26JL105D2	3	ST0726	CS-0.2 10DXN333				1.0000	
26JL105D2	4	ST0726A	CS-1 10DXN342				1.0000	
26JL105D2	5	ST0726B	CS-2 10DXN335				1.0000	
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*

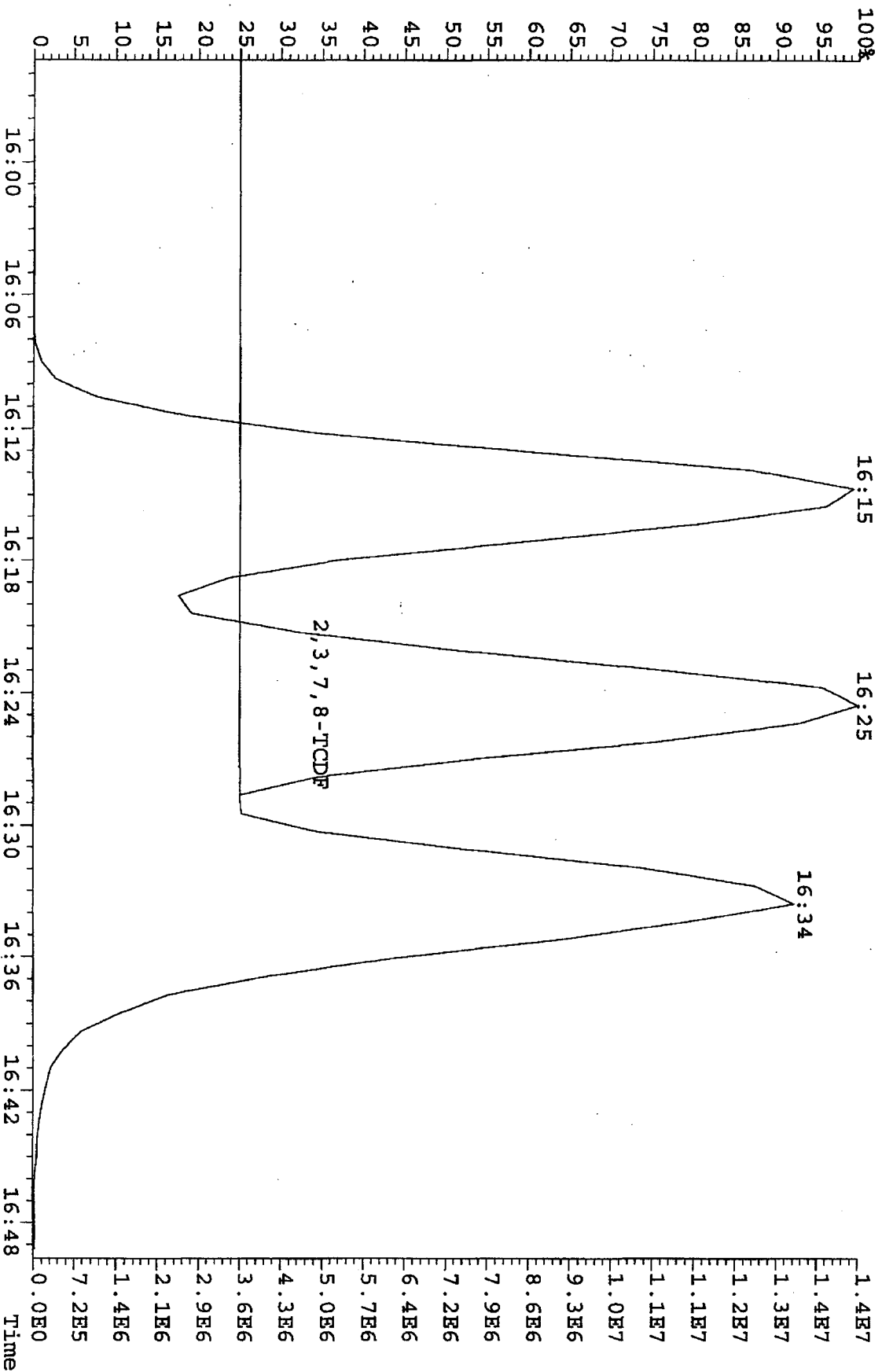
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 Experiment: DB225RBS Function: 1 Reference: PFK



Peak Locate Examination: 26-JUL-2010:14:43 File: 26JUL105D2ENDRES  
 Experiment: DB225RES Function: 1 Reference: PFK



File: 26JUL10SD2 #1-720 Acq: 26-JUL-2010 08:18:34 GC FI+ Voltage SIR 70SE  
 303.9016 BSUB(128,15,-3.0) Exp: DB225RES Noise: 1410



Quantitation Summary

TestAmerica West Sacramento

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

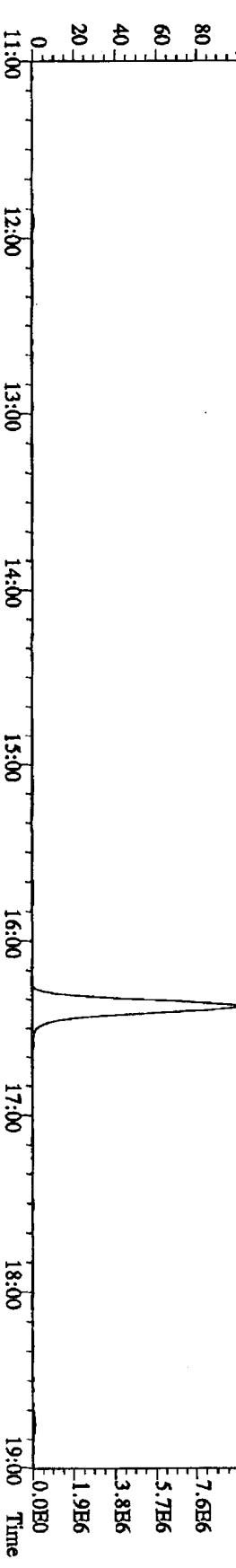
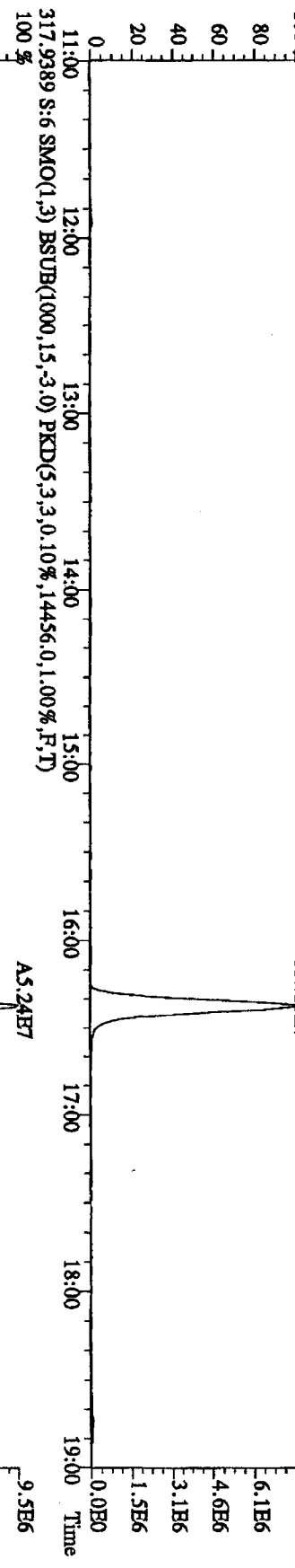
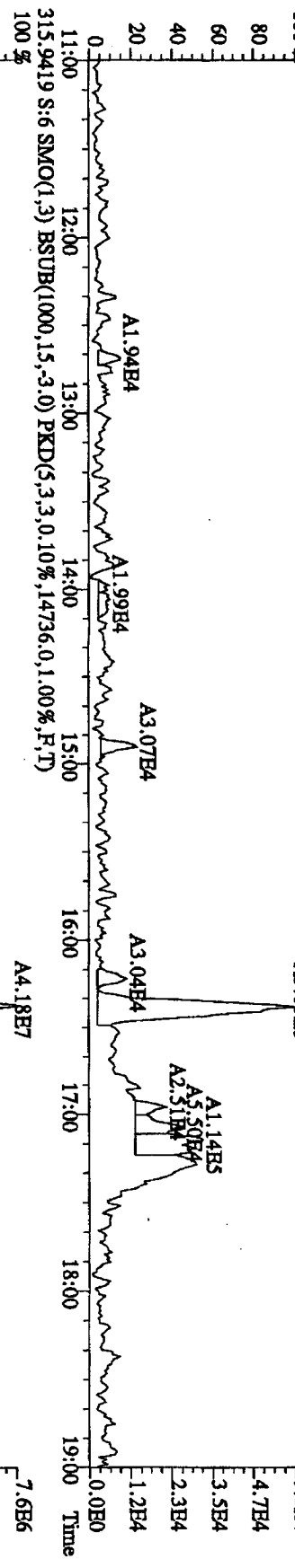
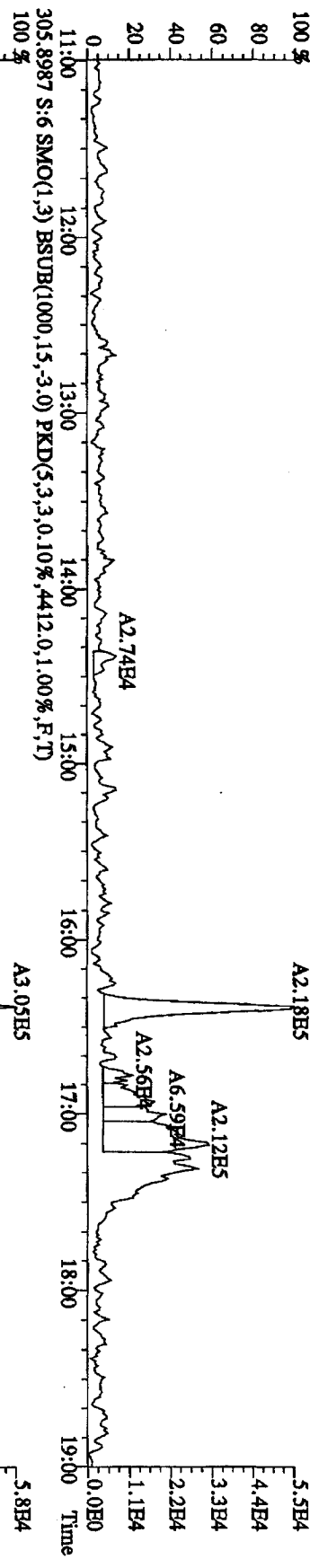
*Spiked @ 200*

*7/26/10  
255*

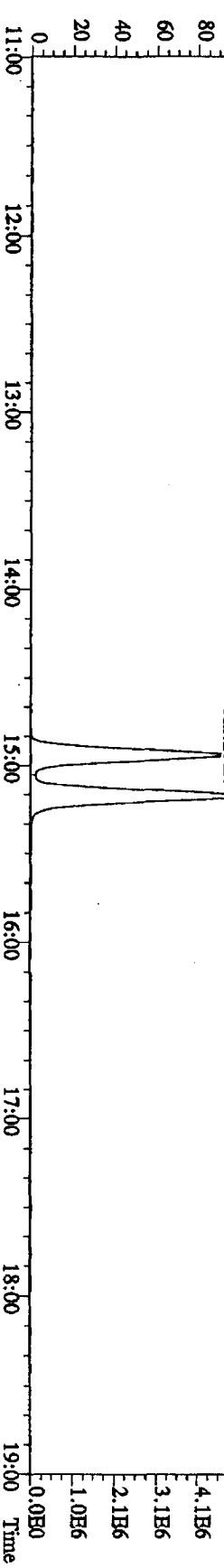
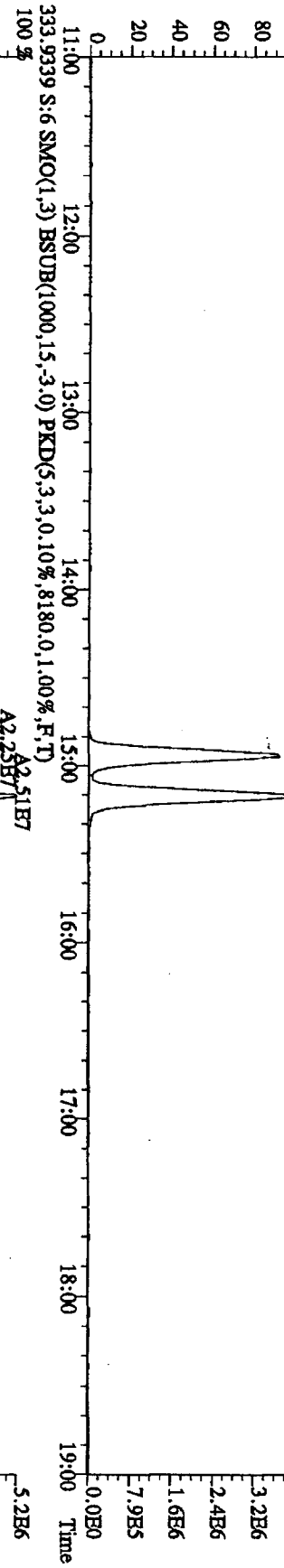
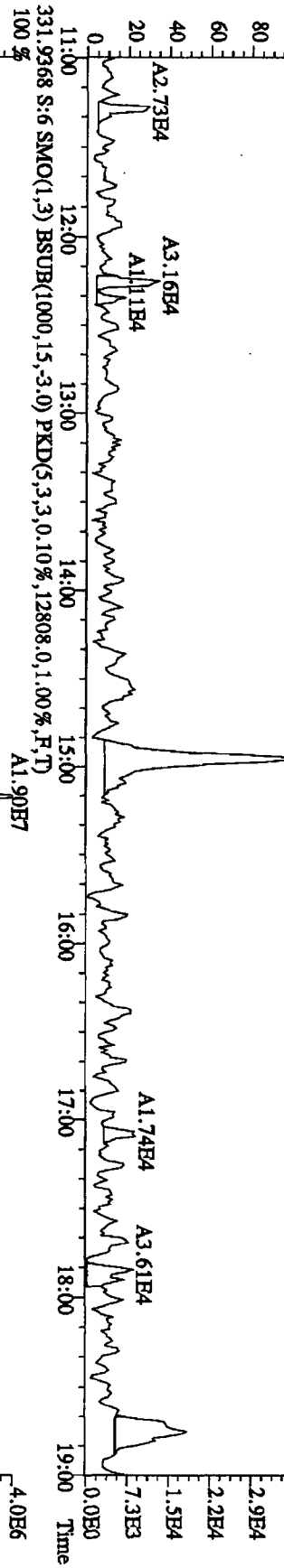
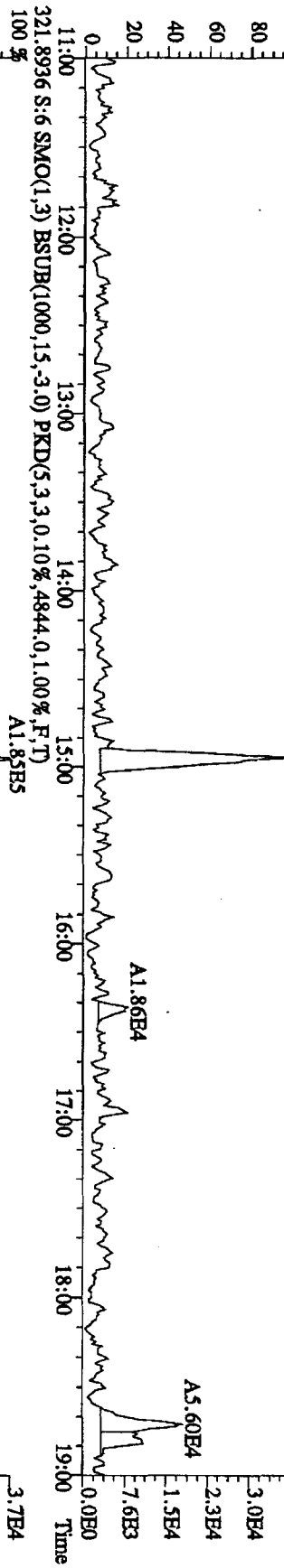
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	117485800	0.79 y	15:10	-	99.48	-	-	n
13C-2,3,7,8-TCDF	262969000	0.78 y	16:22	2.11	2120.25	5.39	106.0	n
2,3,7,8-TCDF	25049900	0.79 y	16:23	1.06	180.39 ✓ 90%	1.31	-	n
13C-2,3,7,8-TCDD	111918800	0.79 y	14:56	0.88	2153.49	7.15	107.7	n
2,3,7,8-TCDD	17243860	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



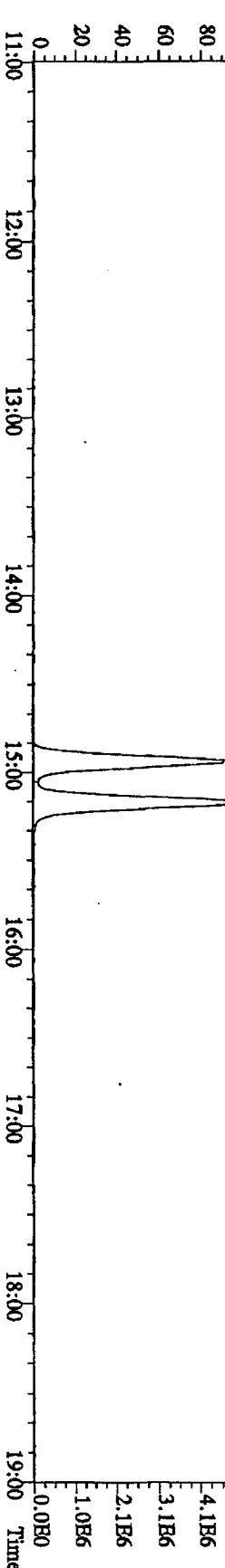
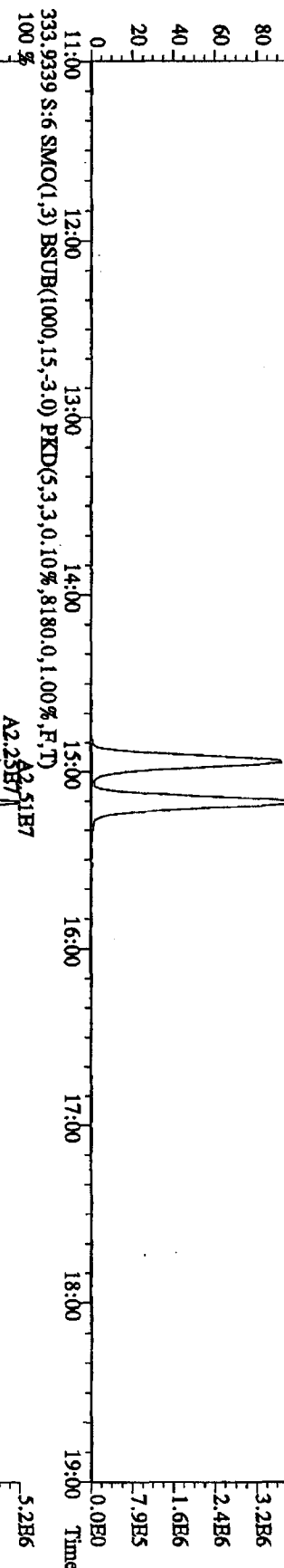
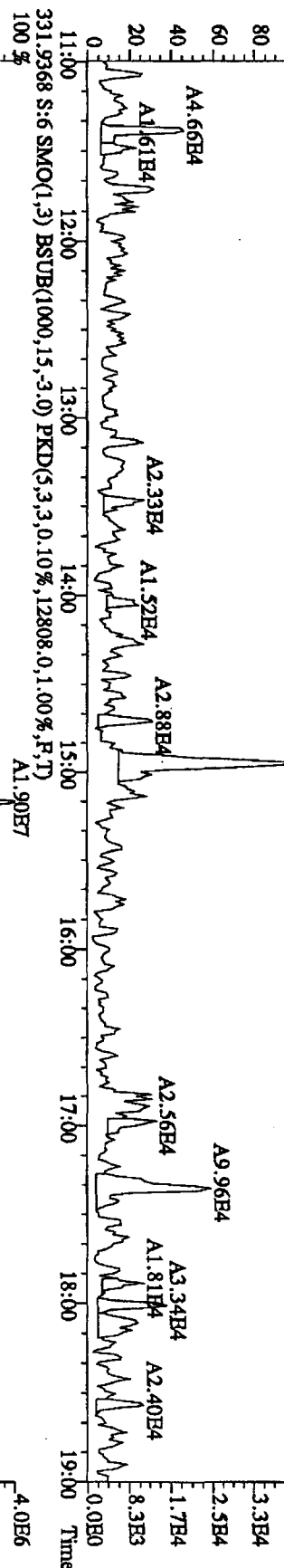
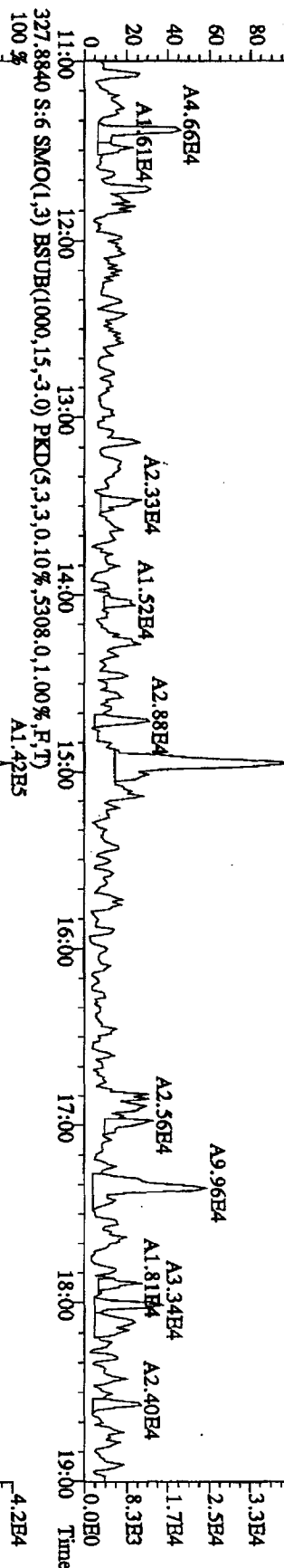
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:25:40 GC:EI+ Voltage:5.0kV SIR 70SE  
 Sample#6 Text:STU726A :CS-110DXN342 RI Exp:DB225RES  
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3908.0,1.00%,F,T)



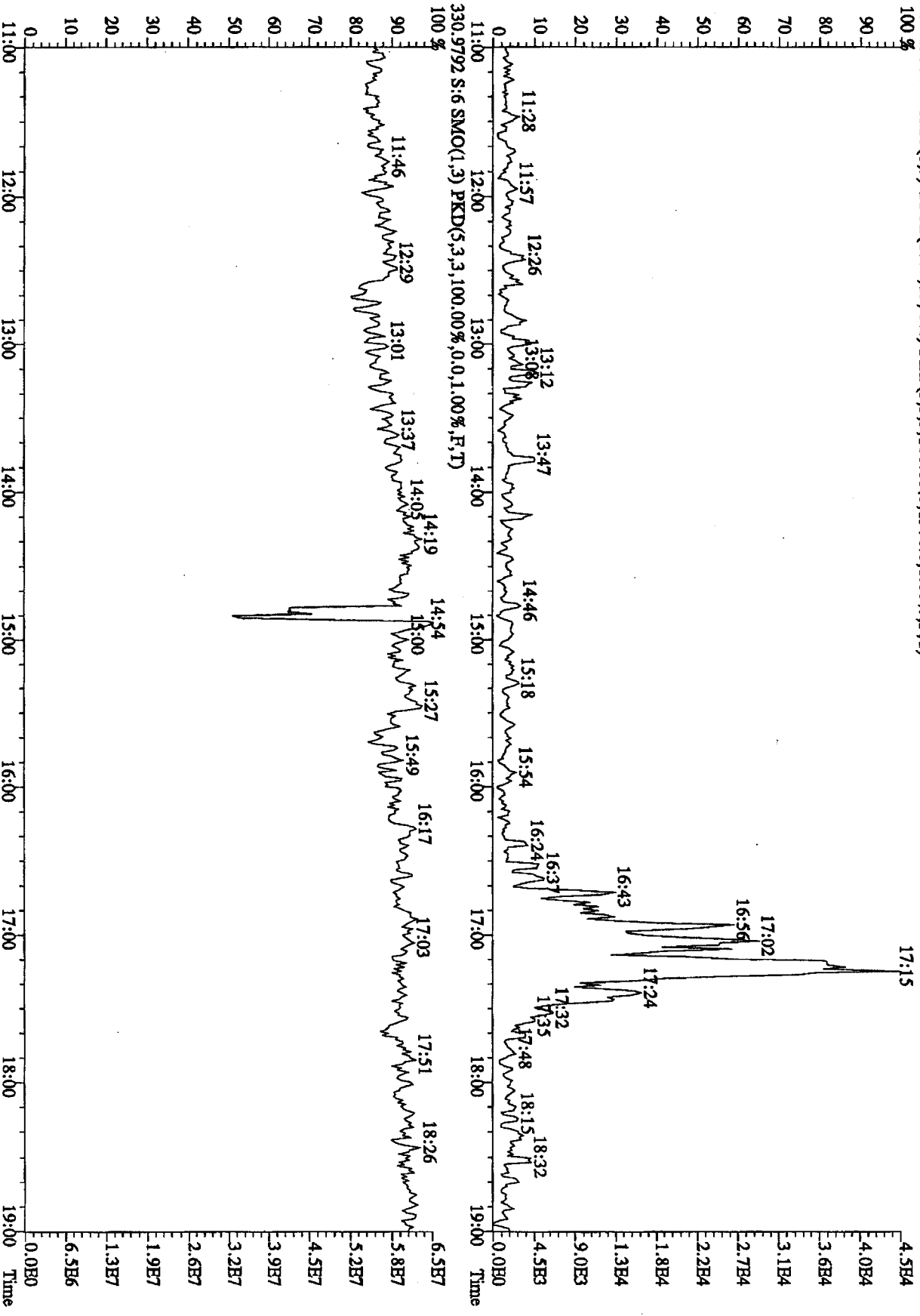
File: 26TL105D2 #1-1242 Acq: 26-JUL-2010 11:25:40 GC EI+ Voltage SIR 70SE  
 Sample#6 Text: ST0726A :CS-1 10DXN342 RI Exp: DB225RBS  
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3896,0,1,00%,F,T)  
 100%



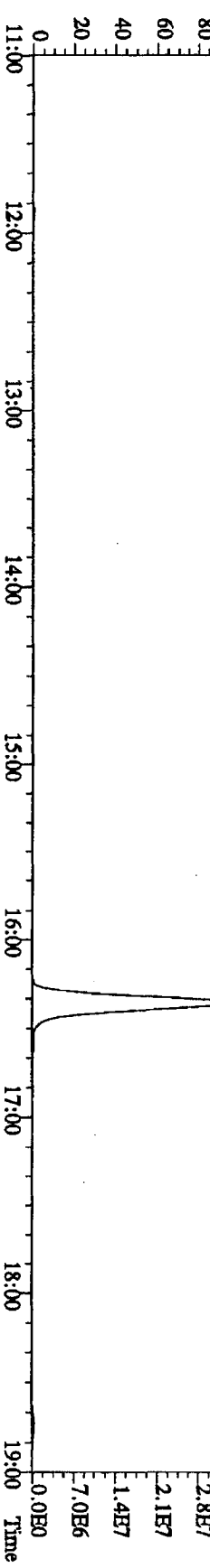
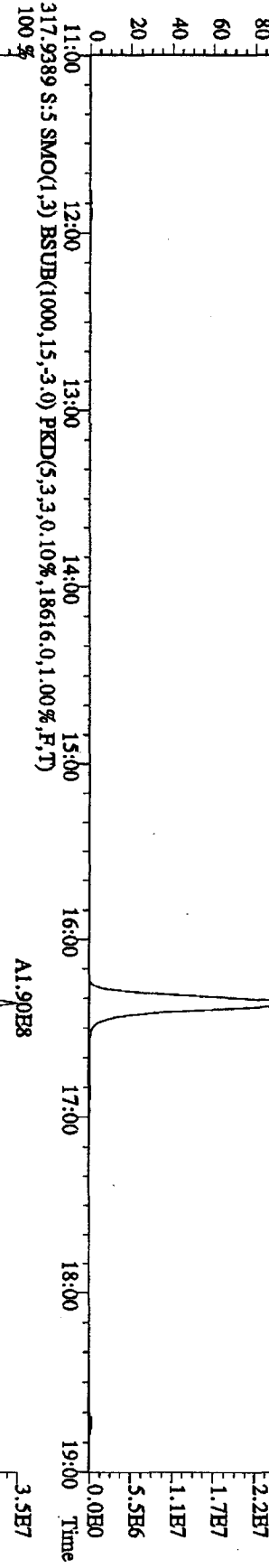
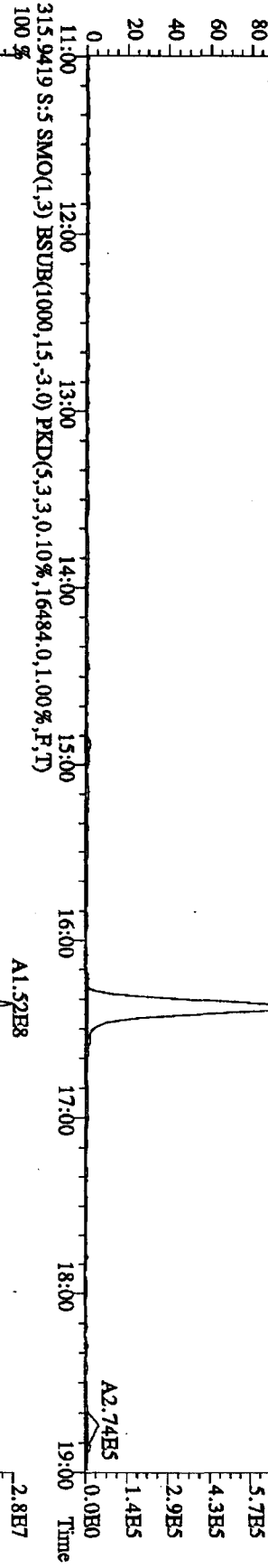
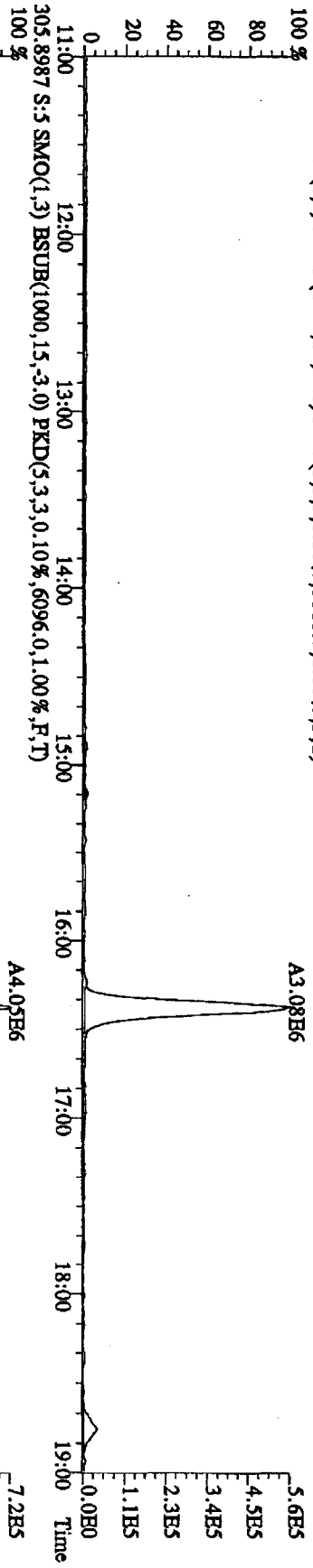
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Sample#6 Text:ST0726A :CS-1 10DXN342 RI Exp:DB225RES  
327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5308.0,1.00%,F,T)  
100 % A1.42B5



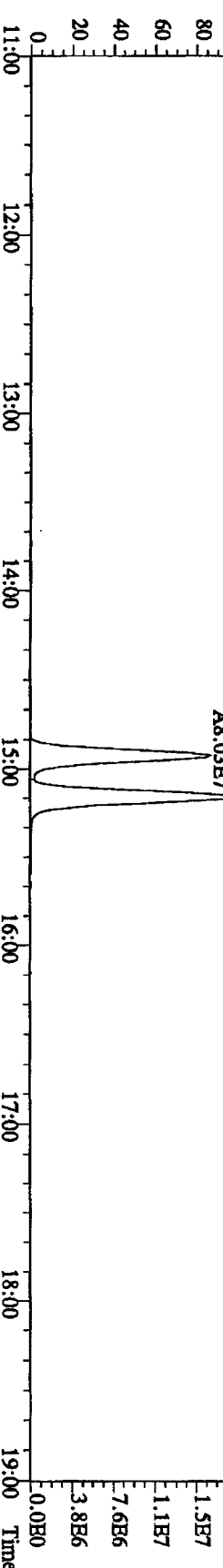
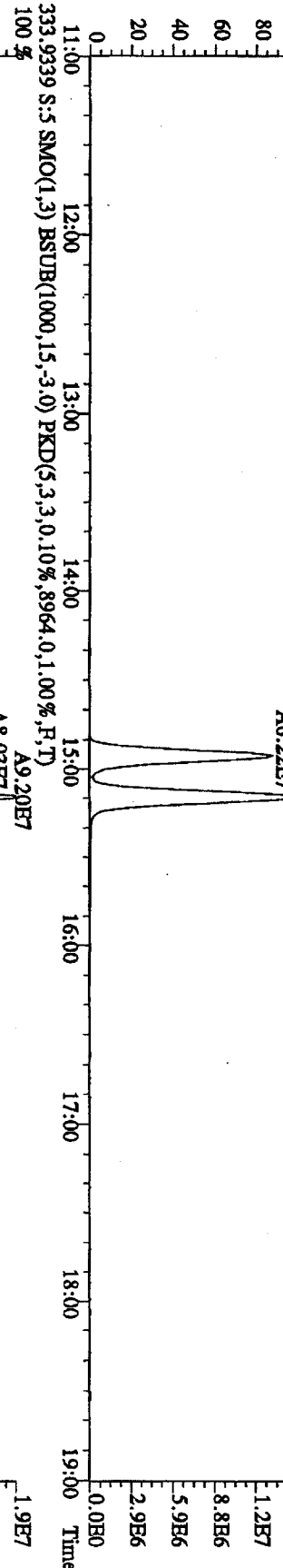
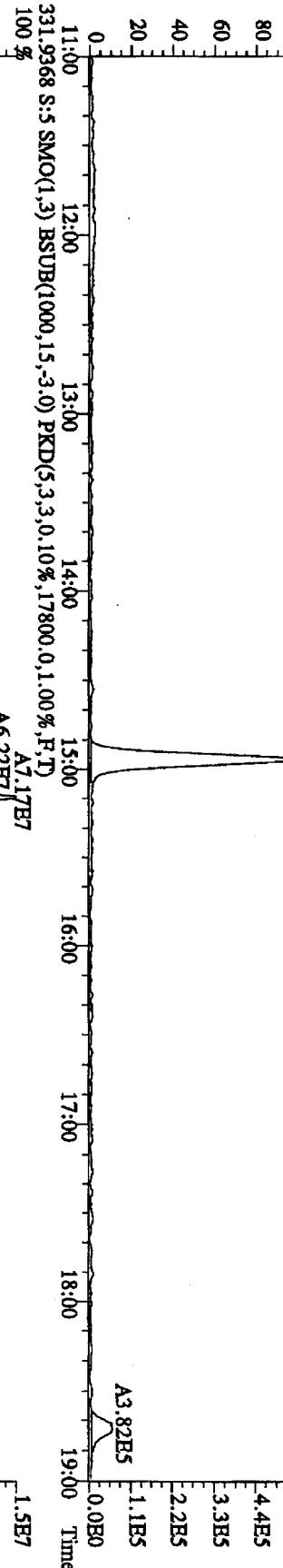
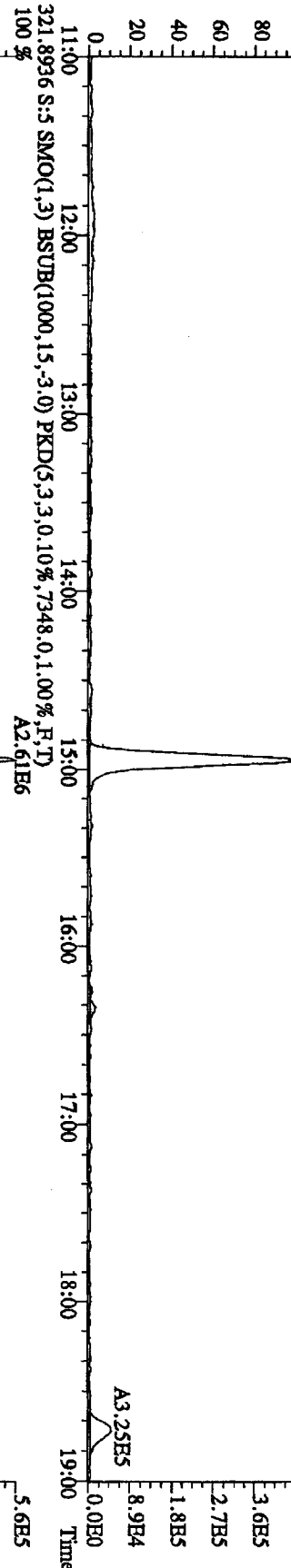
File: 26L105D2 #1-1242 Acq: 26-JUL-2010 11:25:40 GC HI + Voltage SIR 70SB  
 Sample#6 Text: ST0726A :CS-1 10DXN342 RI Exp: DB225RES  
 375.8364 S: 6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1.976,0,1.00%,F,T)



File: 261L105D2 #1-1242 Acq: 26-JUL-2010 10:33:31 GC HI+ Voltage SIR 70SE  
 Sample#5 Text: ST0726B :CS-2 10DXN335 Exp: DB25RES  
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5060,0,1,00%,F,T)



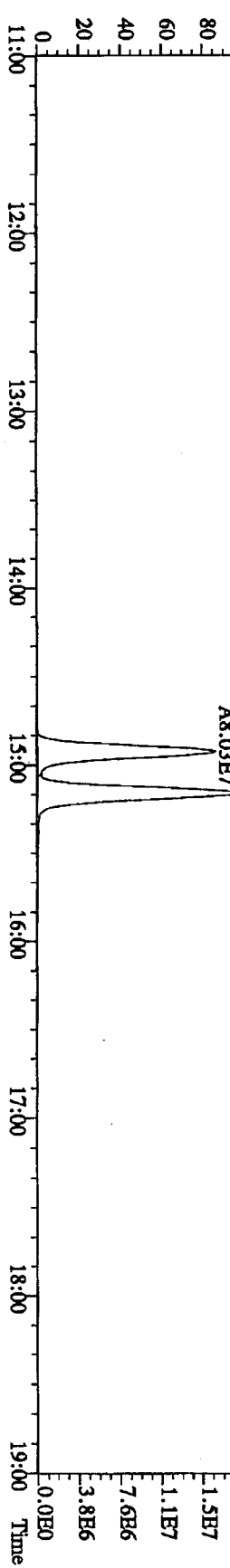
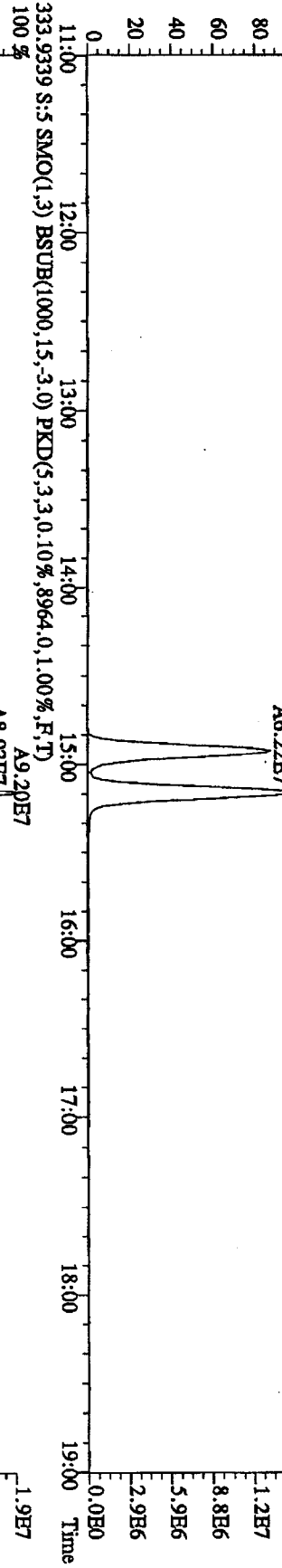
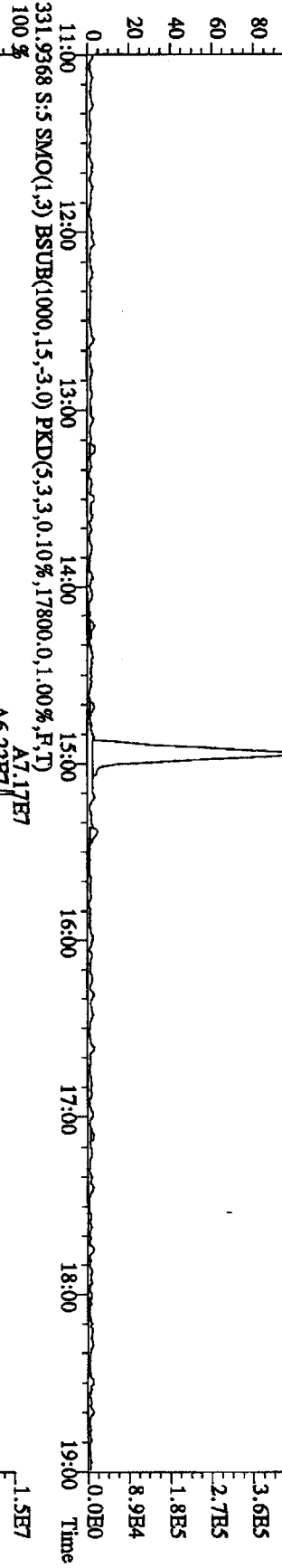
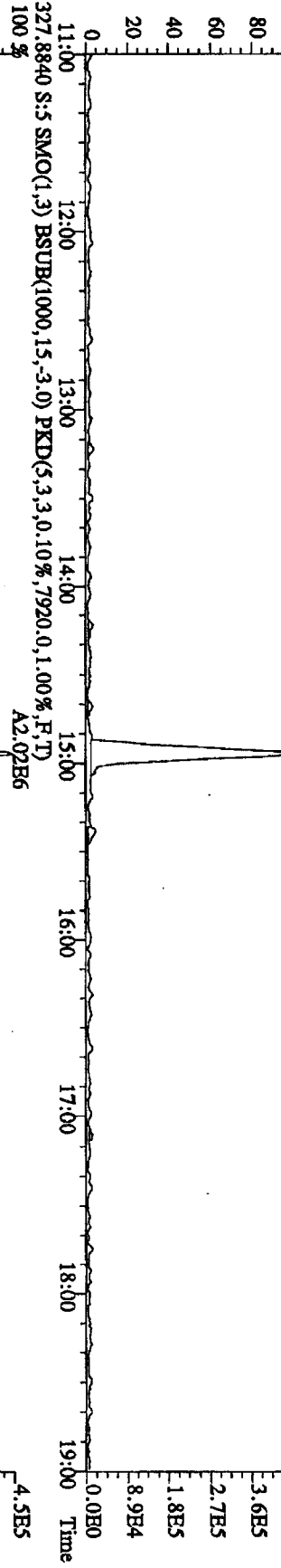
File: 261L105D2 #1-1242 Acq: 26-JUL-2010 10:33:31 GC: HI+ Voltage: SIR 70SE  
 Sample#5 Text: ST0726B :CS-2 10DXN335 Exp: DB225RBS  
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5400,0,1,00%,F,T)  
 100%



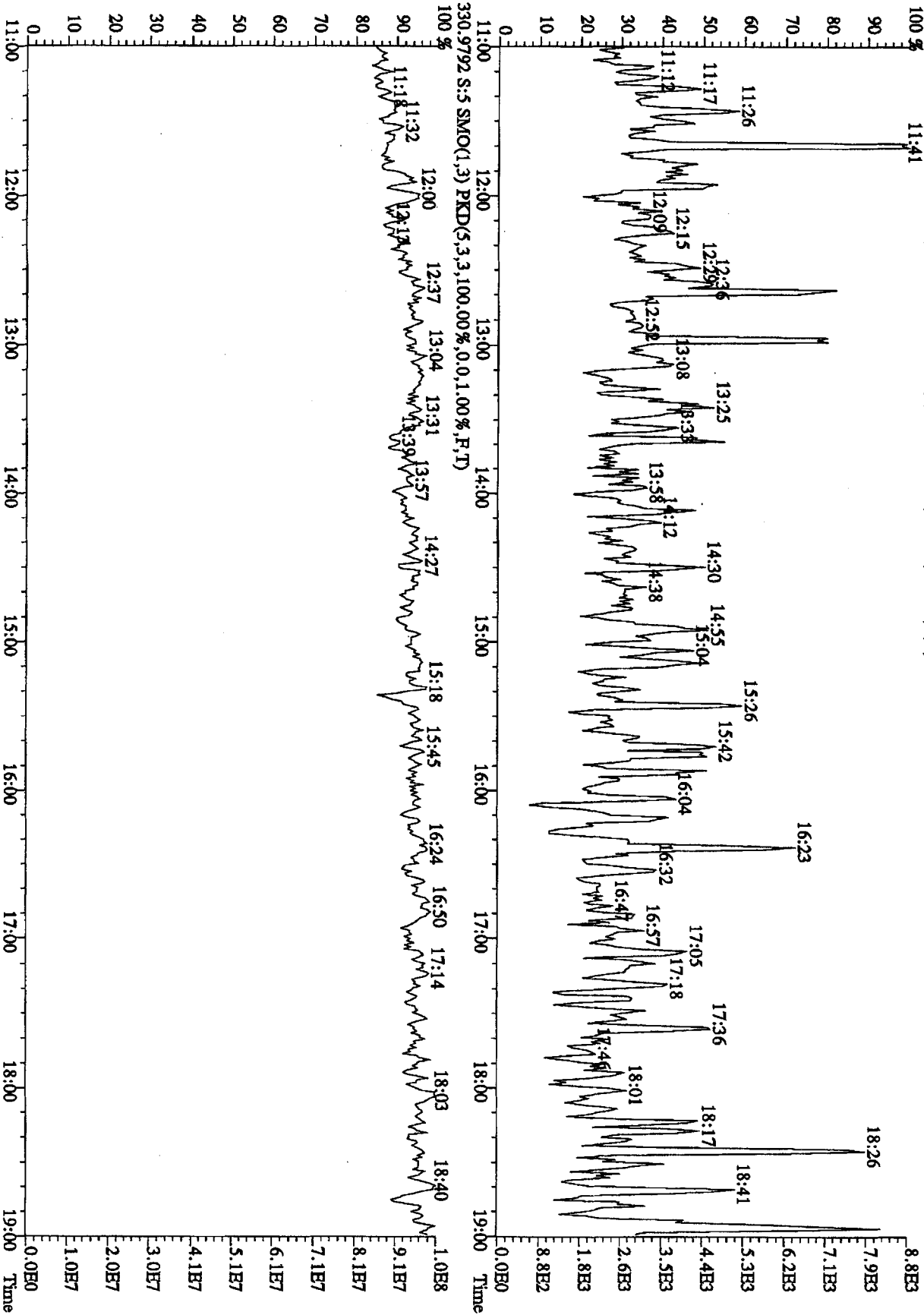
File: 26L105D2 #1-1242 Acq: 26-JUL-2010 10:33:31 GC EI+ Voltage SIR 70SE

Sample#5 Text: ST0726B : CS-2 10DXN335 Exp: DB225RES

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) A2.02B6

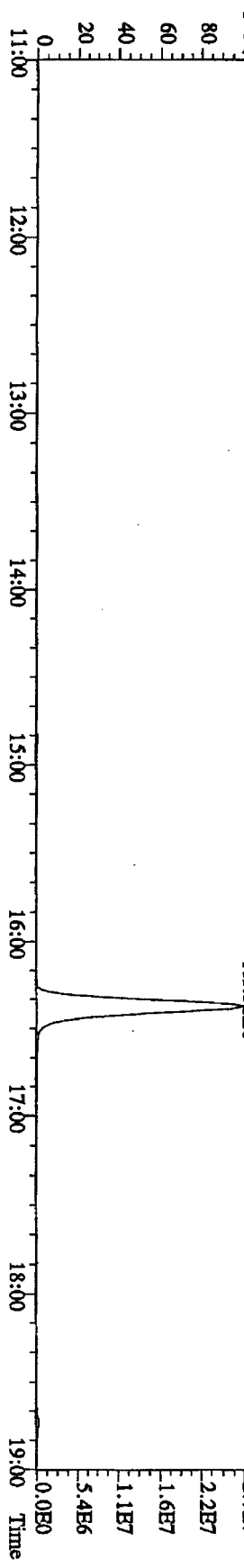
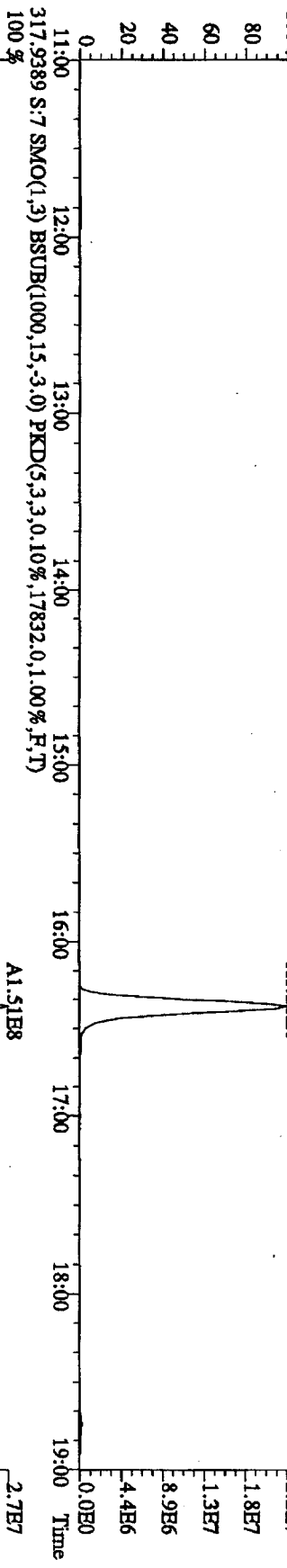
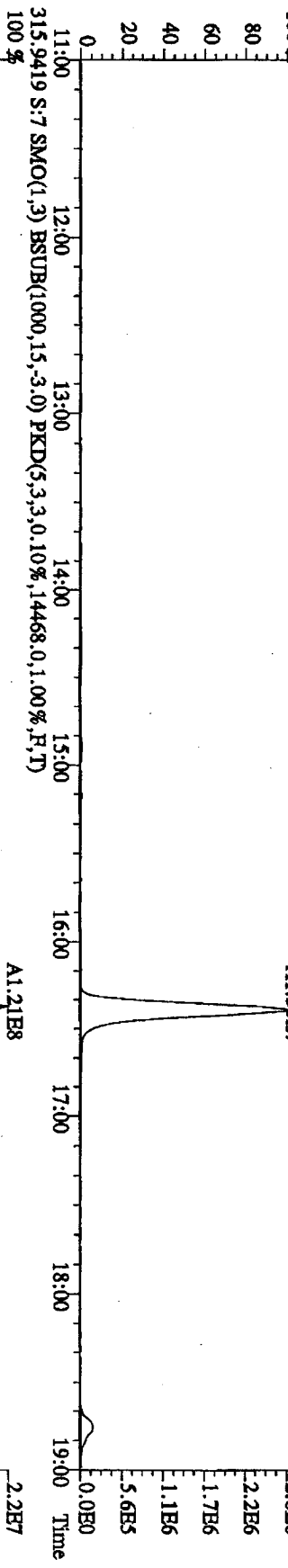
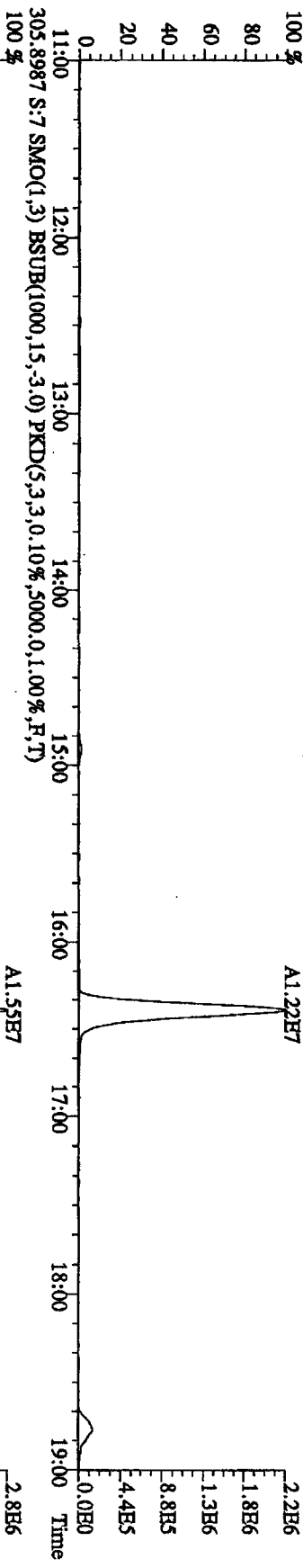


File:26IL10SD2 #1-1242 Acq:26-JUL-2010 10:33:31 GC:EI+ Voltage:5IR 70SB  
 Sample#5 Text:ST0726B :CS-2 10DXN335 Exp:DB225RES  
 375.8364 S:5 SMO(1,3) BSUBR(1000,15,-3.0) PKD(5,3,3,100.00%,3156.0,1.00%,F,T)  
 100%

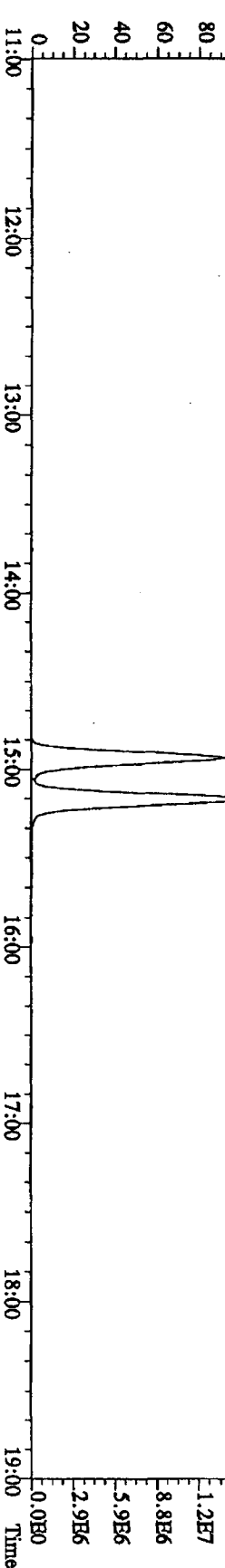
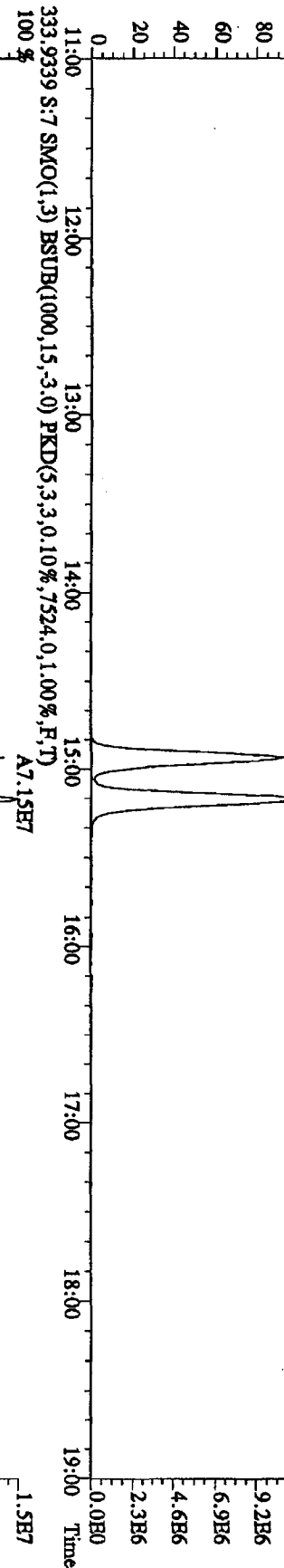
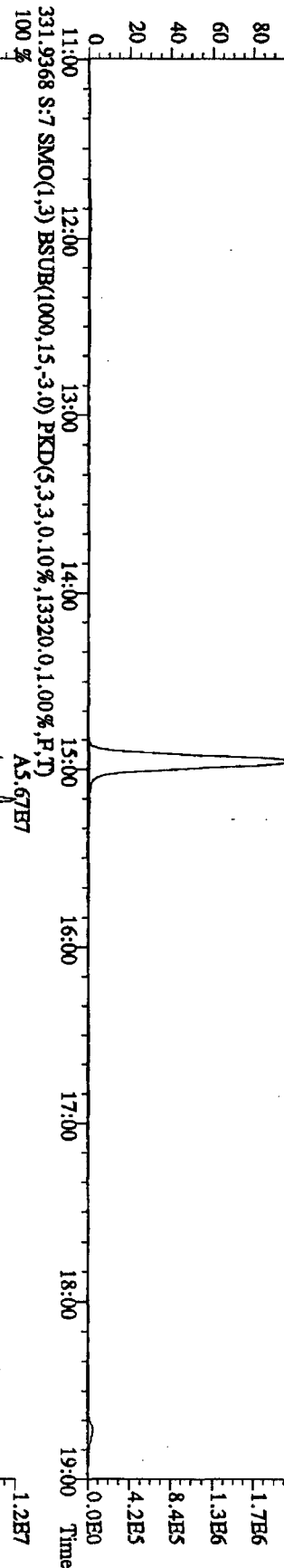
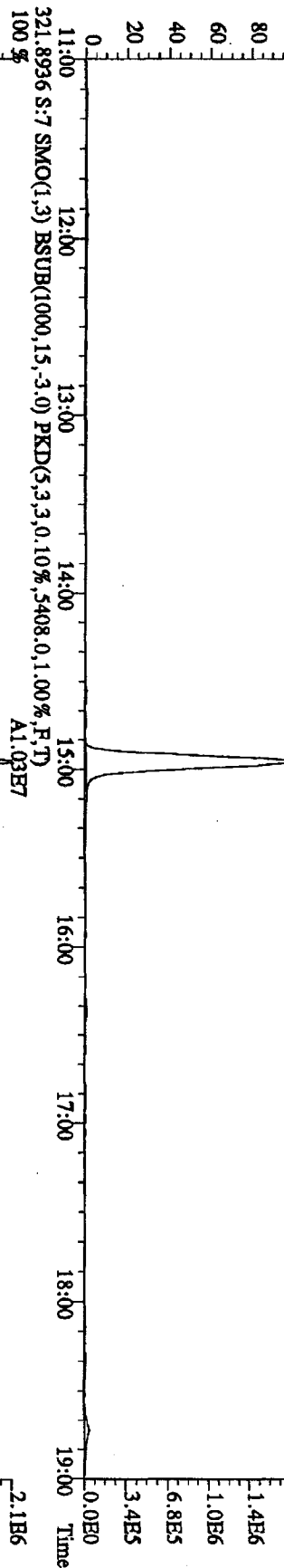




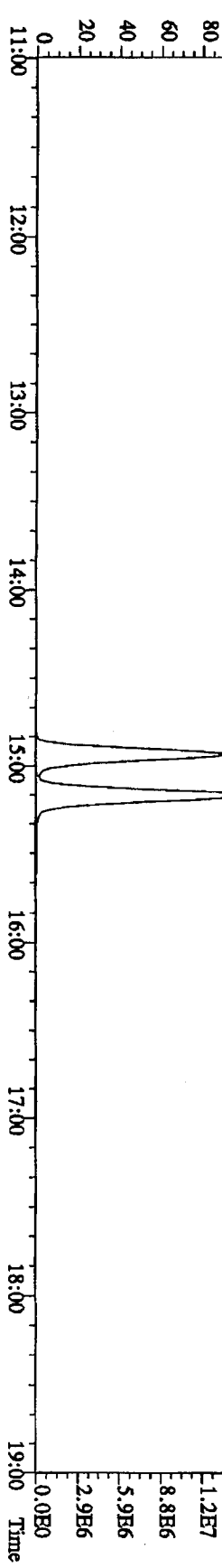
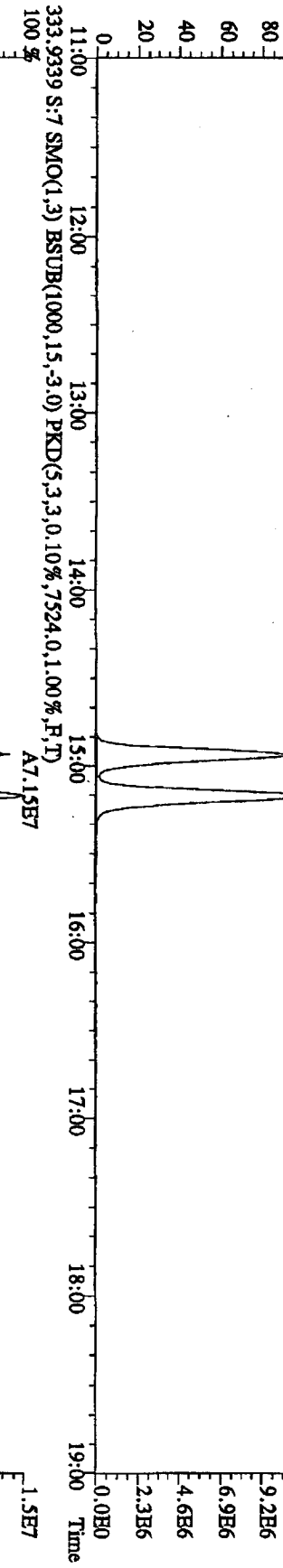
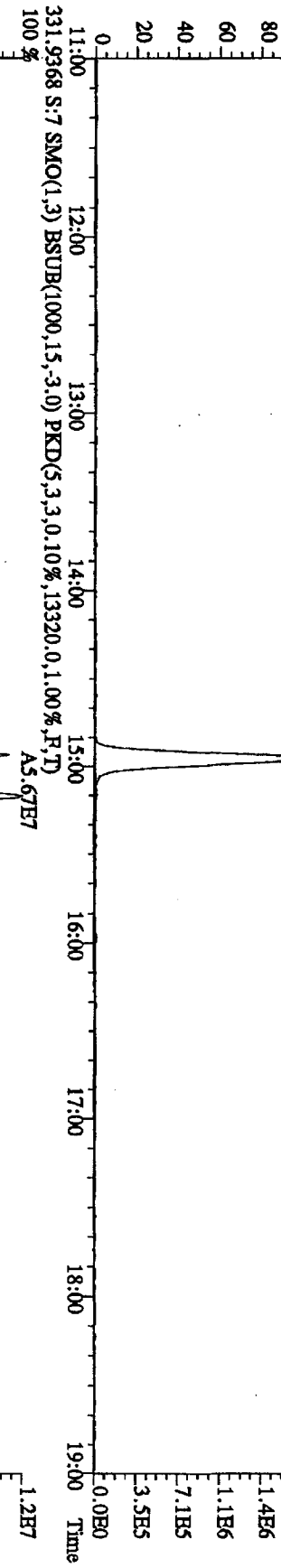
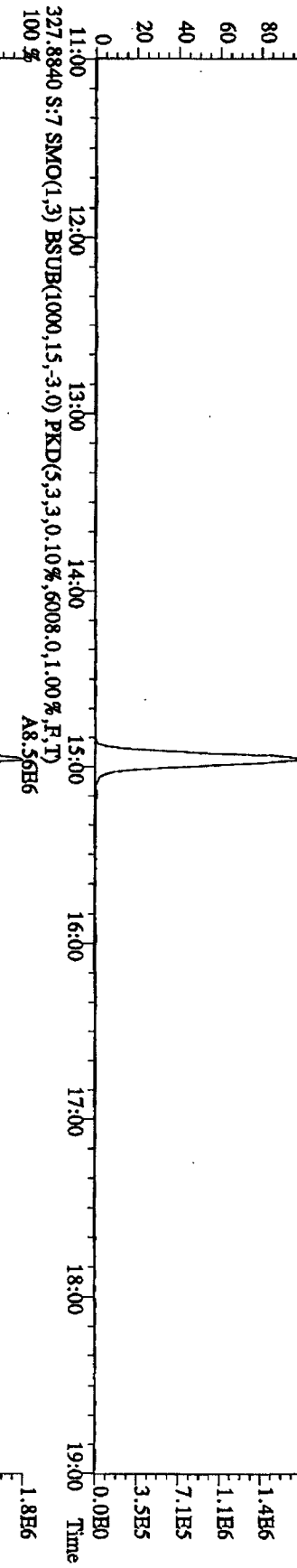
File: 26IL105D2 #1-1242 Acq: 26-JUL-2010 11:59:28 GC EI+ Voltage SIR 70SE  
 Sample#7 Text: ST0726C :CS-3 10DXN336 Exp: DB25RES  
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3660.0,1.00%,F,T)  
 100 %



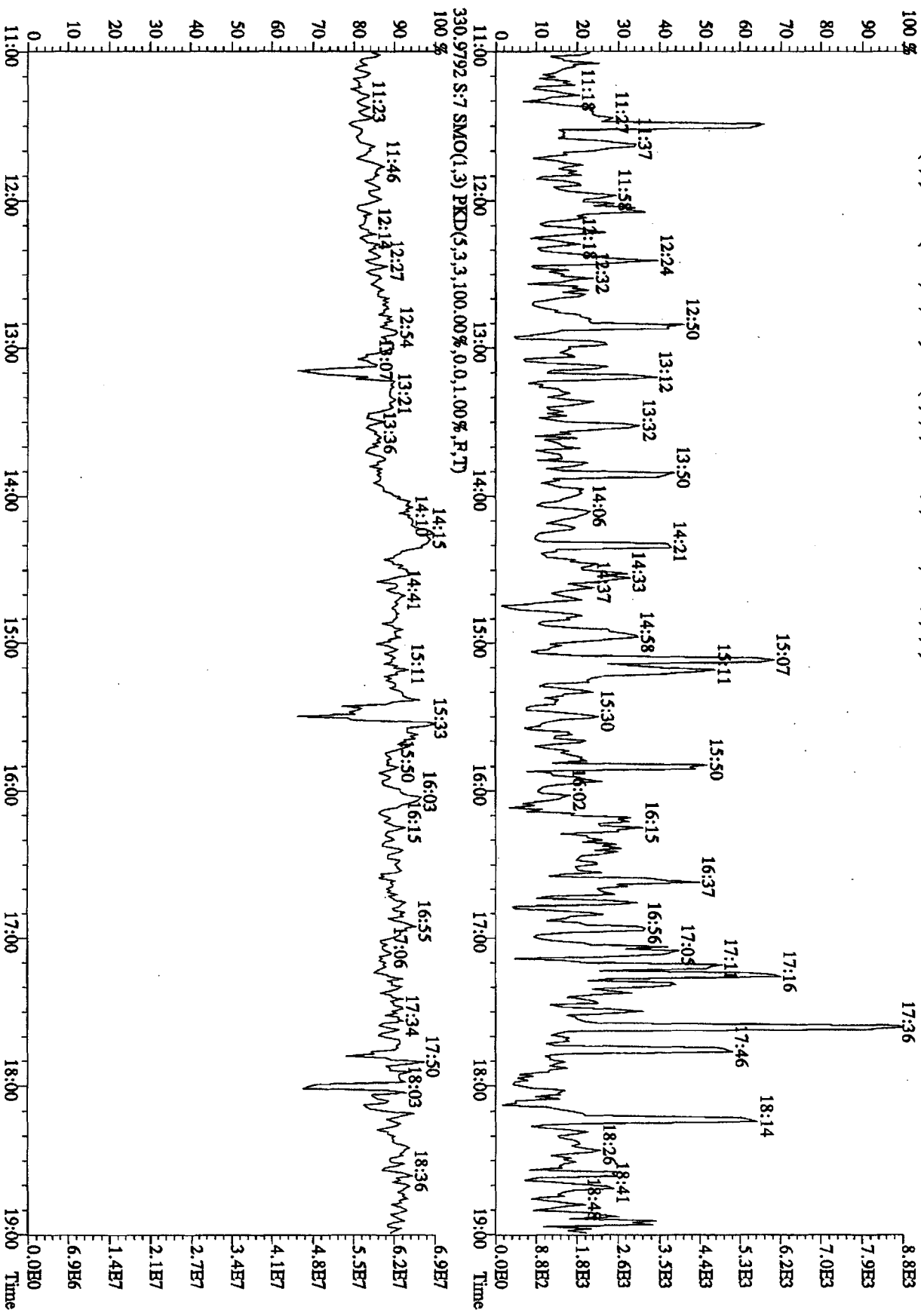
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC HI+ Voltage SIR 70SB  
 Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DB225RBS  
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4208,0.1,00%,F,T)  
 100%



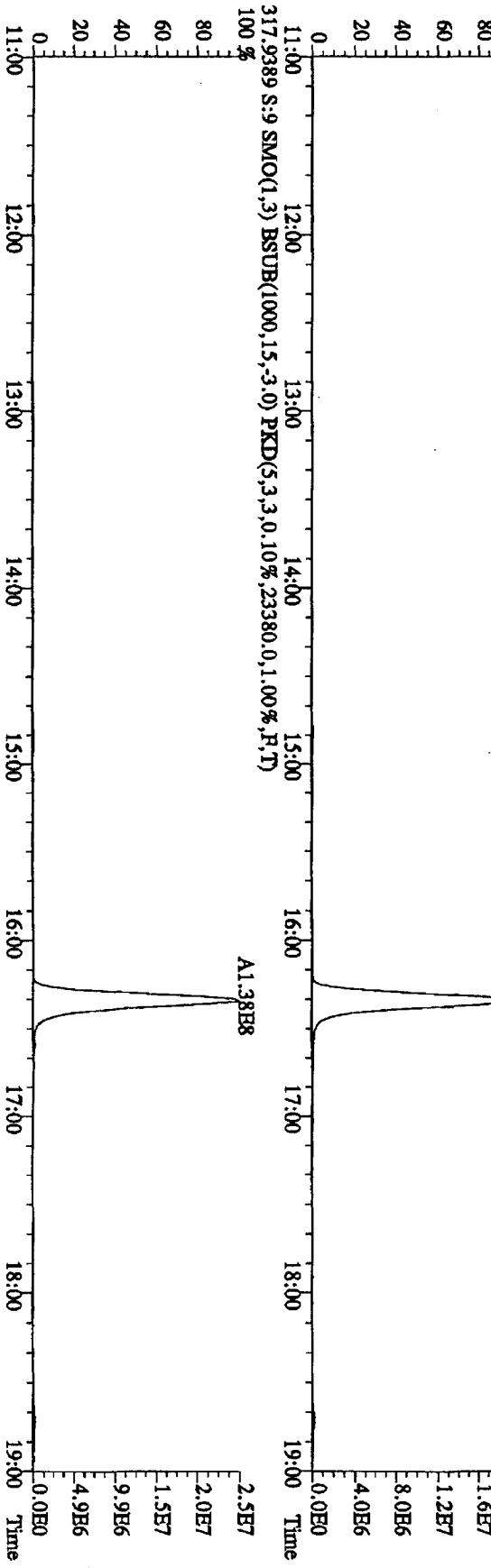
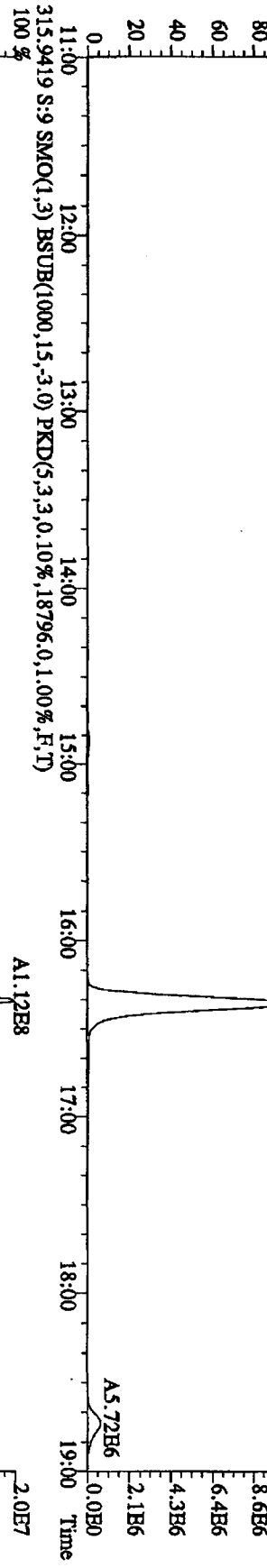
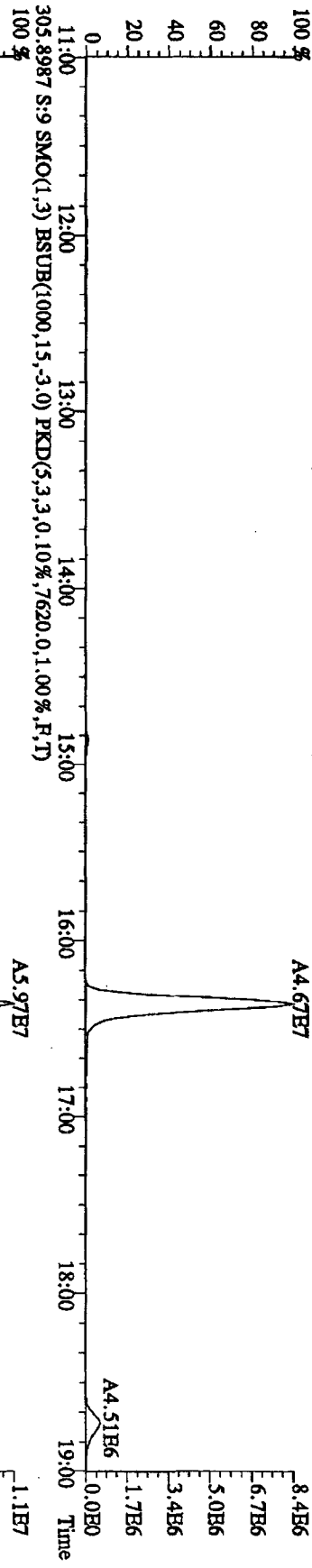
File:261L105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC HI+ Voltage SIR 70SB  
 Sample#7 Text:ST0726C :CS-3 10DXN336 Exp:DBZ25RES  
 327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6008.0,1.00%,F,T)  
 100% A8.56E6



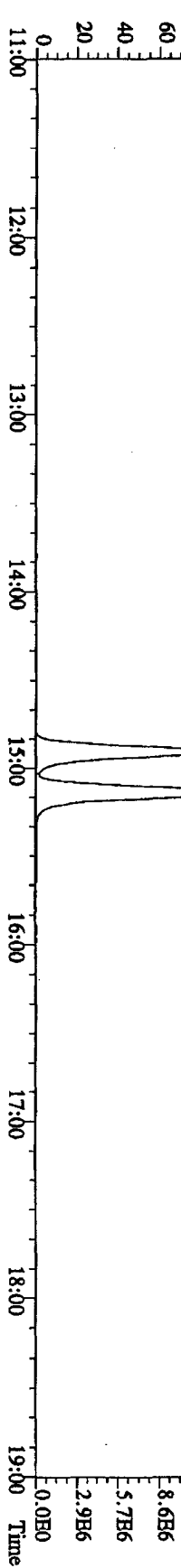
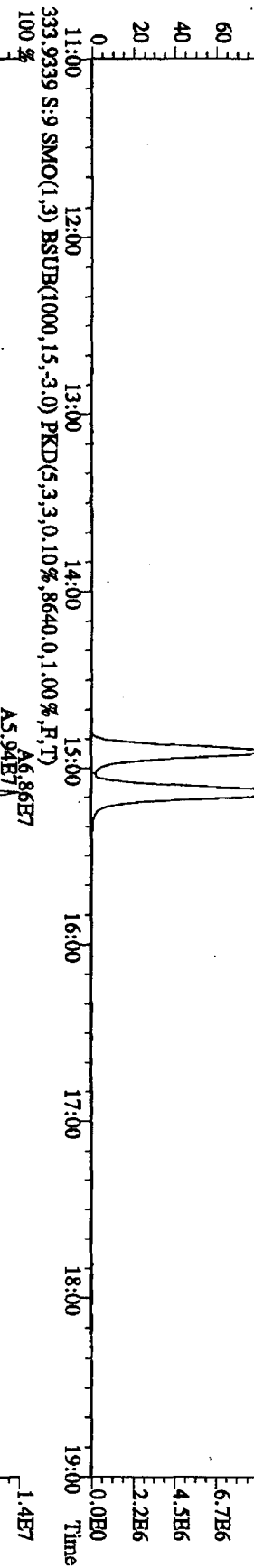
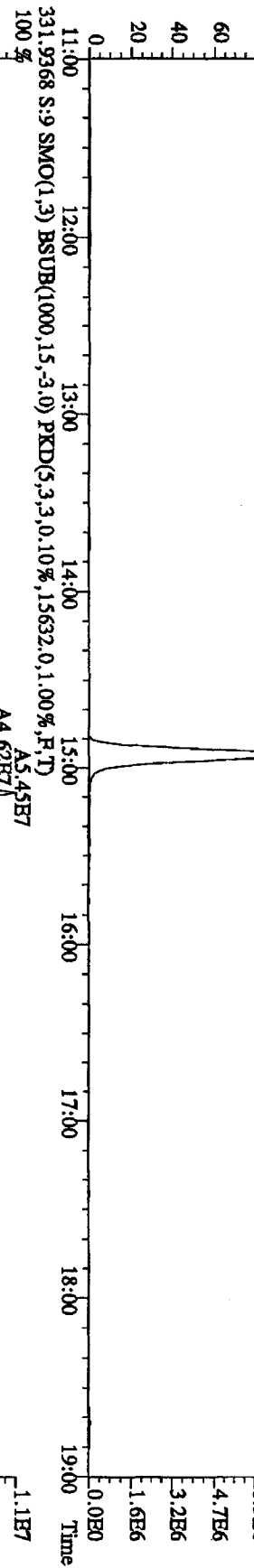
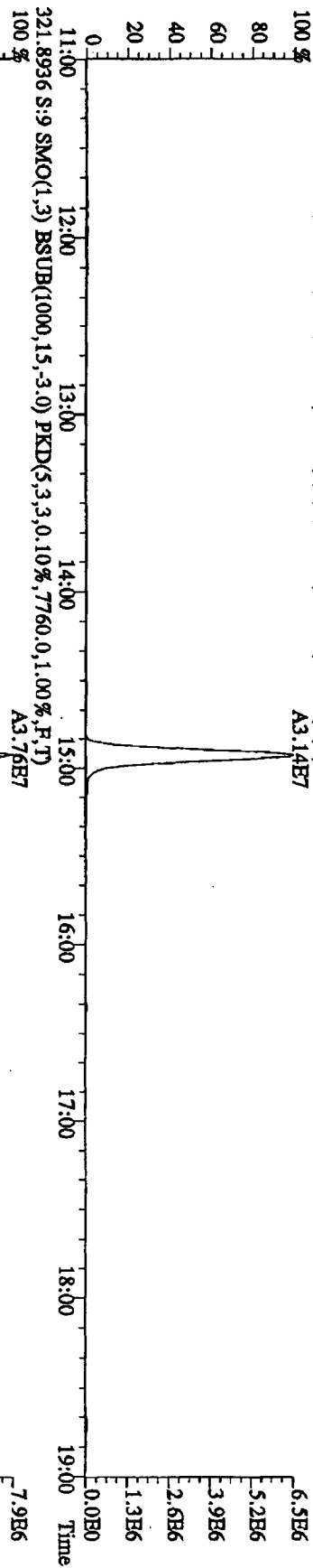
File:26JL105D2 #1-1242 Acq:26-JUL-2010 11:59:28 GC BI+ Voltage SIR 70SB  
 Sample#7 Text:ST0726C ;CS-3 10DXN336 Exp:DB225RES  
 375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2000.0,1.00%,F,T)



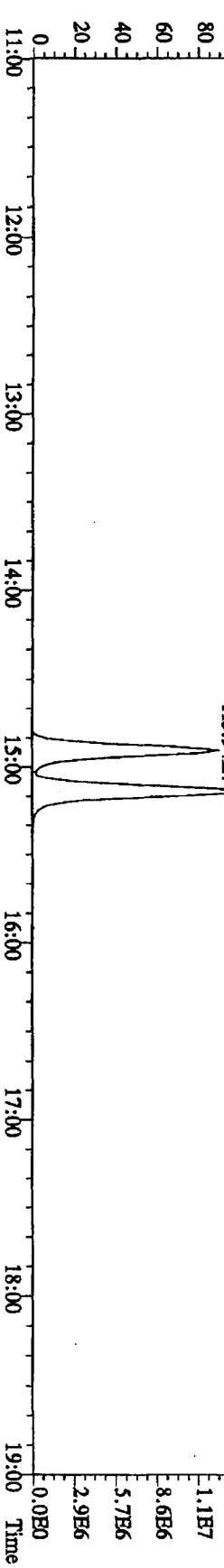
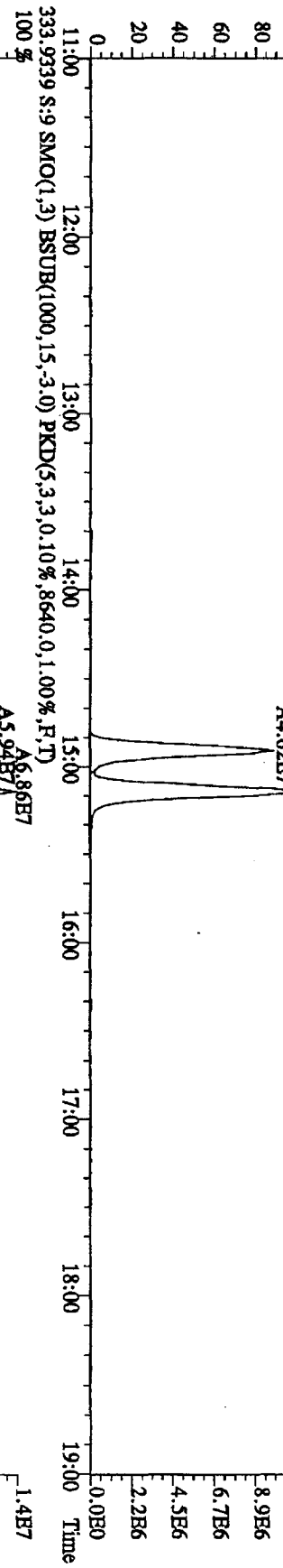
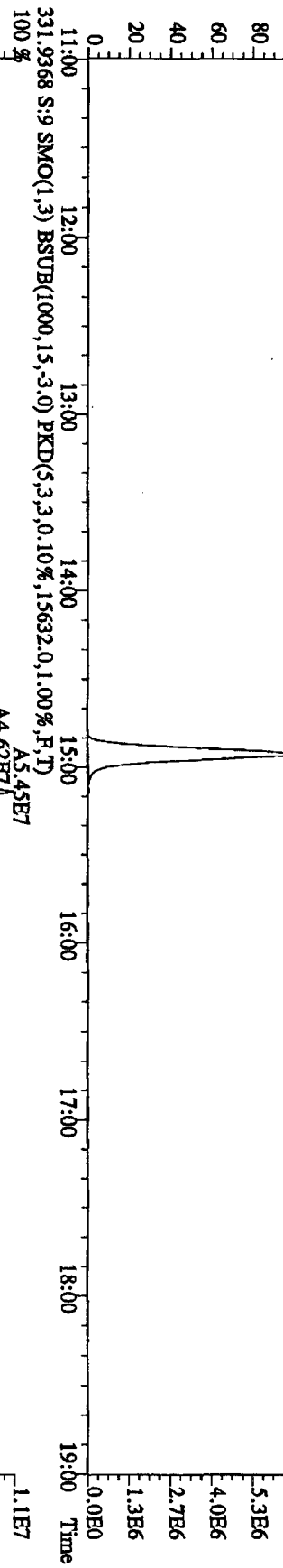
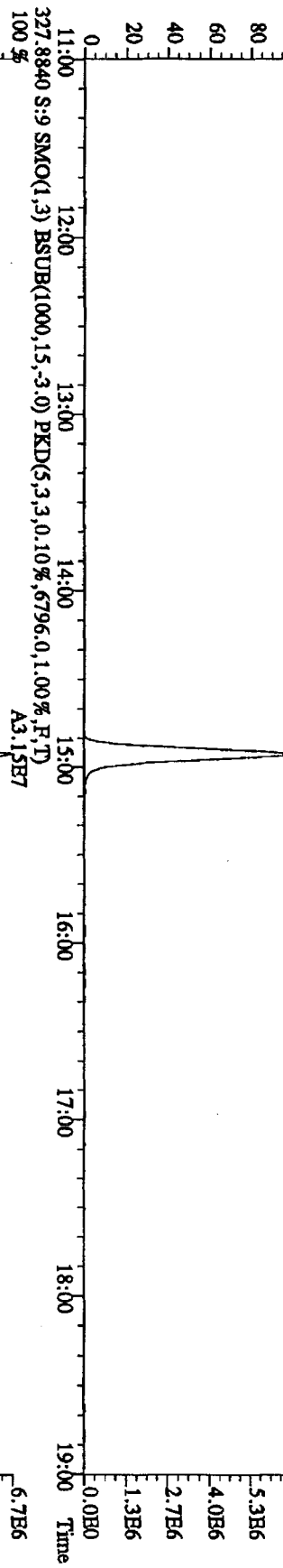
File:26L105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SB  
 Sample#9 Text:STU726B :CS-4 10DXN337 Exp:DB25RES  
 303,9016 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6232.0,1.00%,F,T) 100 %



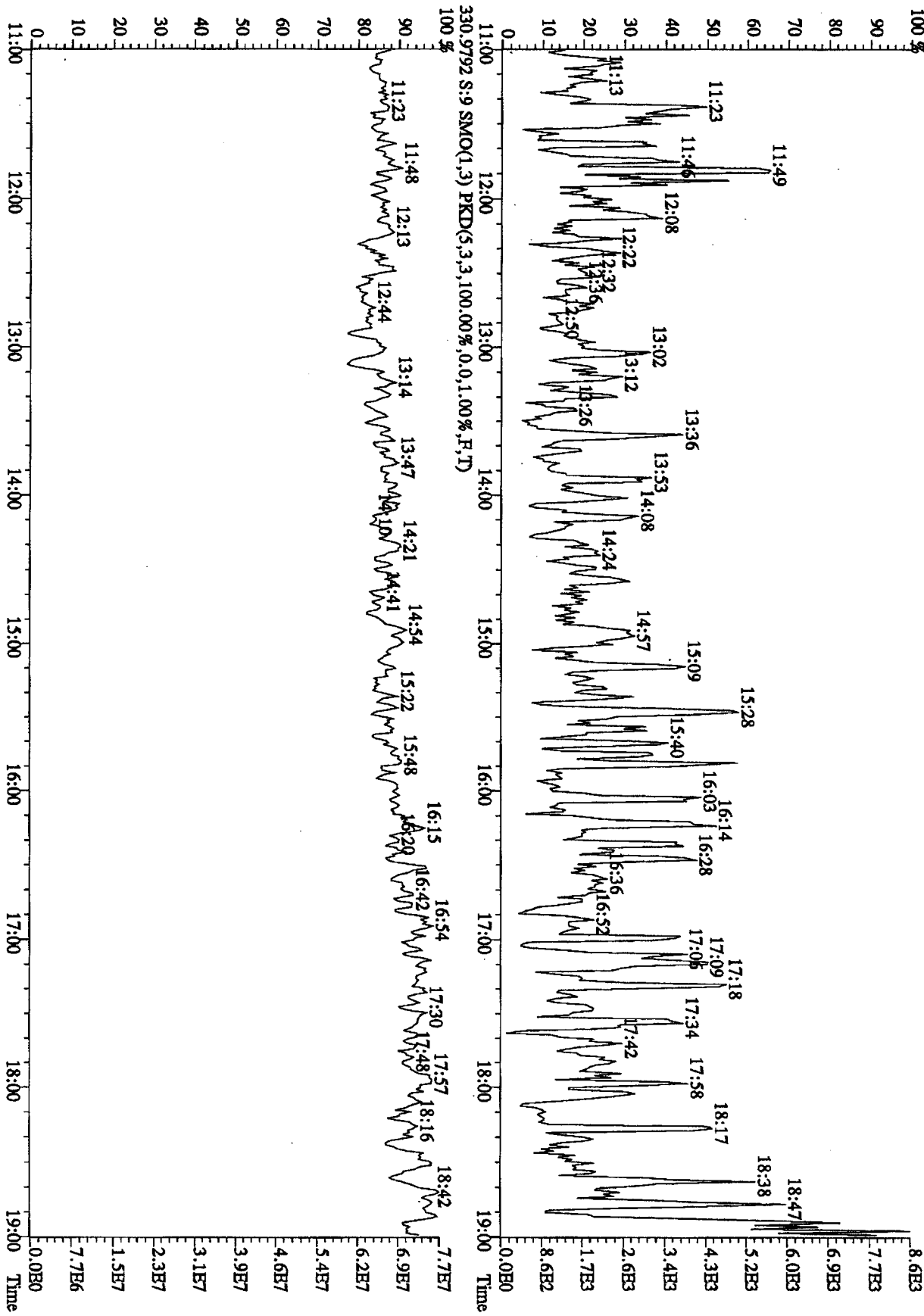
File:261L105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC HI+ Voltage SIR 70SE  
 Sample#9 Text:ST0726B :CS-4 10DXN337 Exp:DB225RES  
 319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5792.0,1.00%,F,T)  
 100 %



File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:07:04 GC HI+ Voltage SIR 70SE  
 Sample#9 Text:ST0726B :CS-4 10DXN337 Exp:DB225RES  
 327.8840 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6796,0,1,00%,F,T)  
 100 % A3.15E7

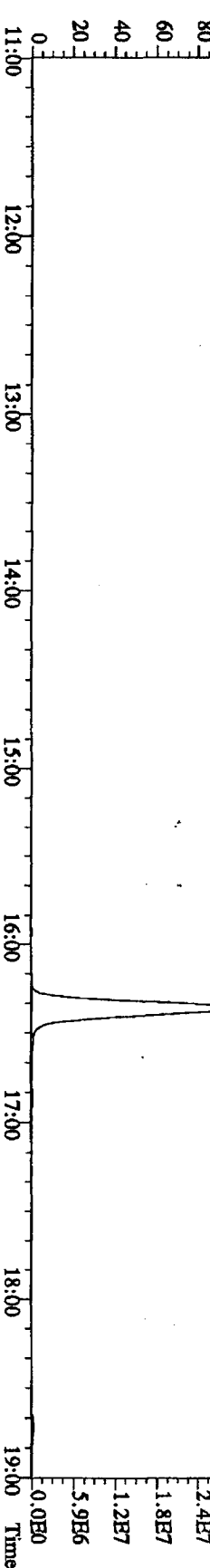
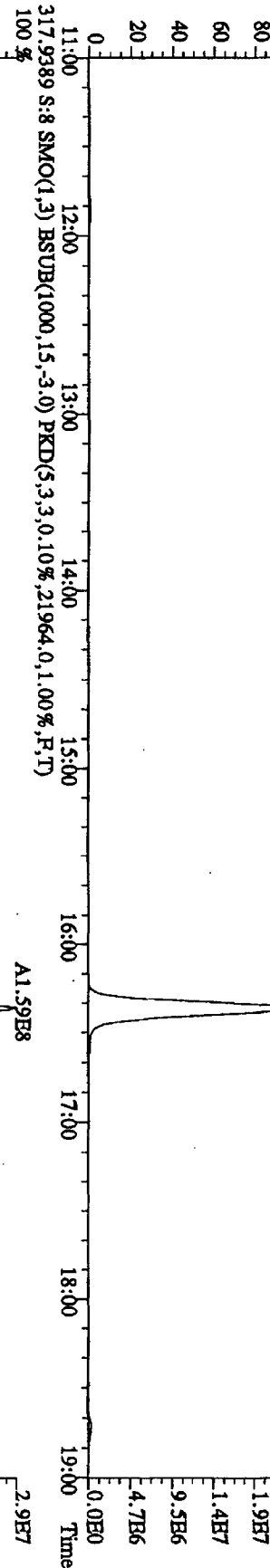
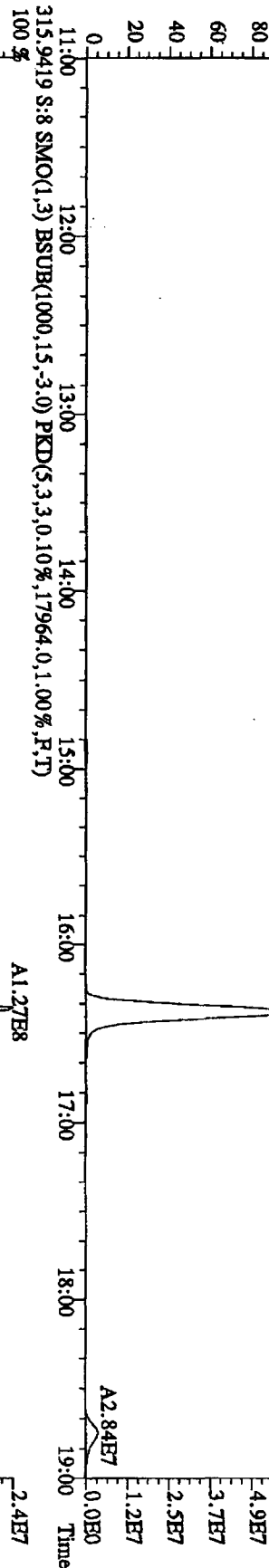
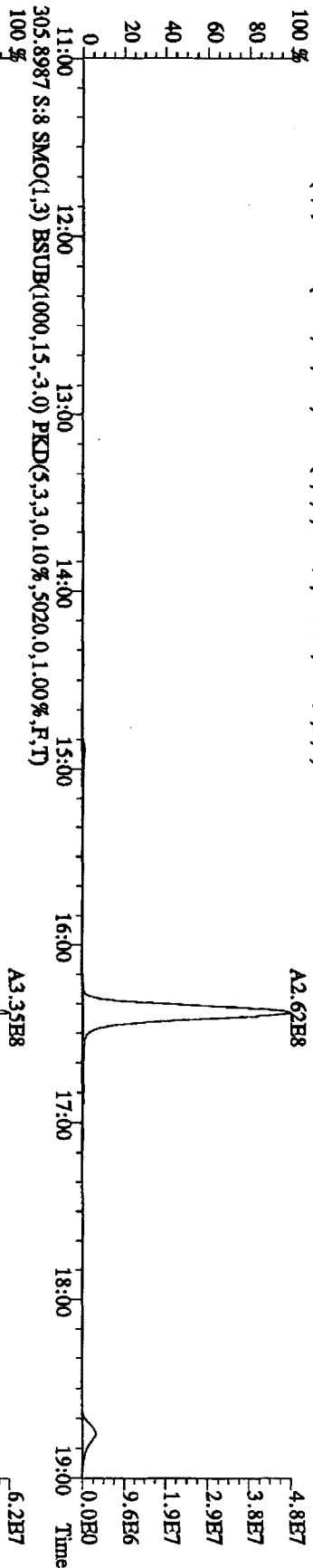


File: 261L105D2 #1-1242 Acq: 26-JUL-2010 13:07:04 GC EI+ Voltage SIR 70SB  
 Sample#9 Text: ST0726E :CS-4 10DXN337 Exp: DB225RES  
 375.8364 S: 9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2008.0,1.00%,F,T)

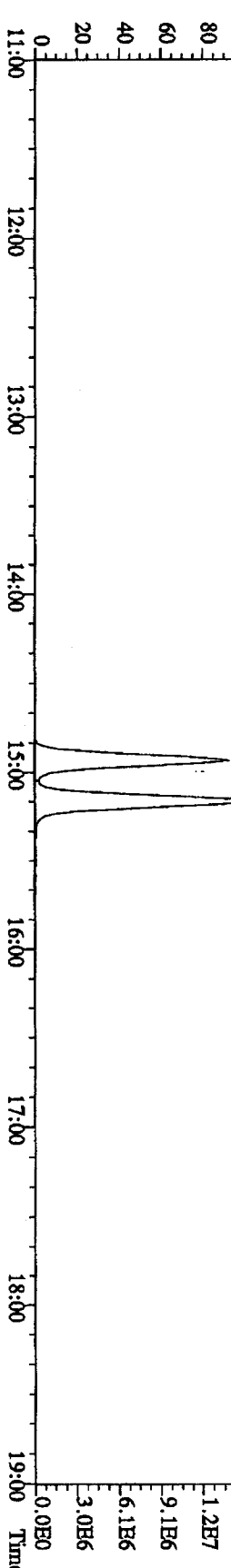
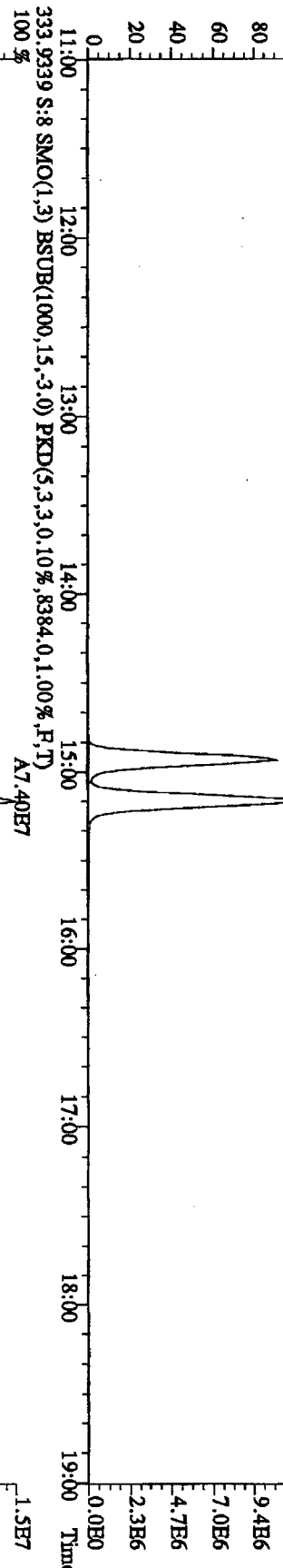
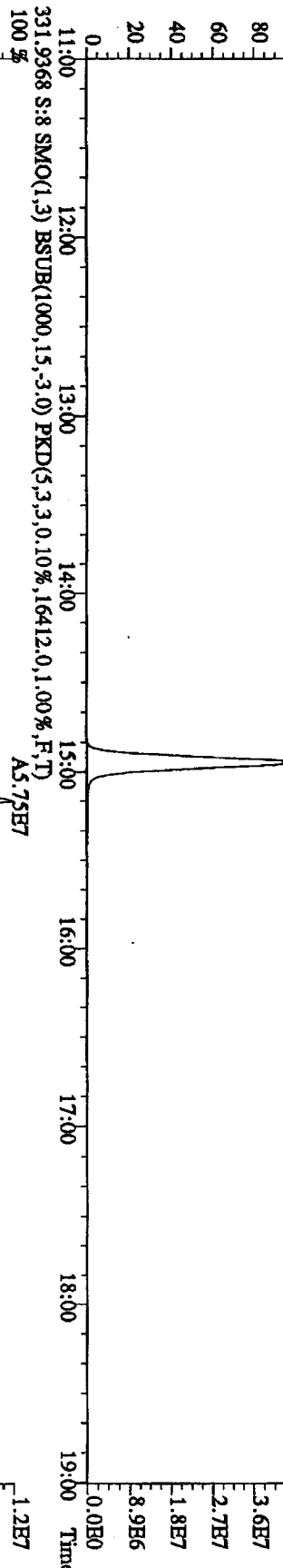
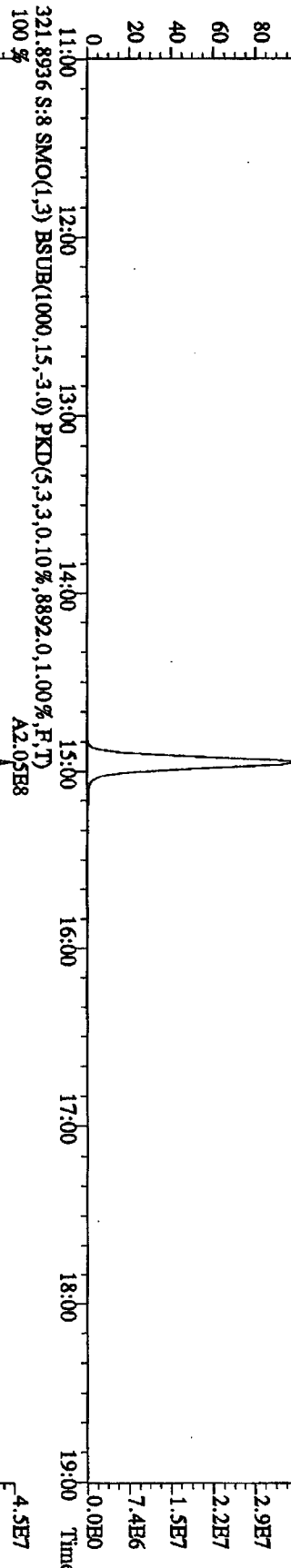




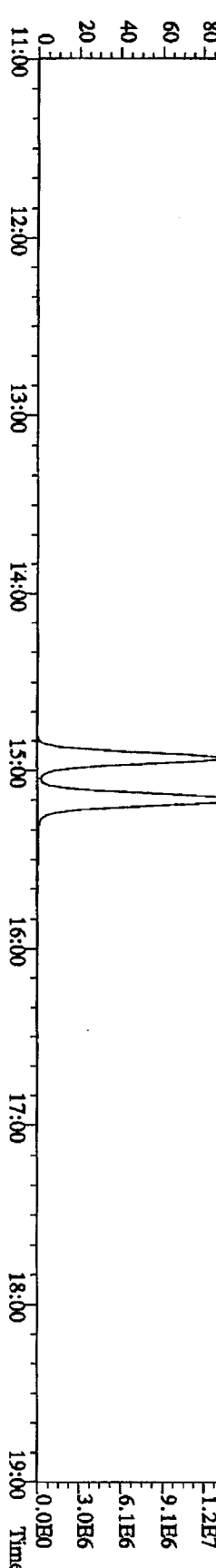
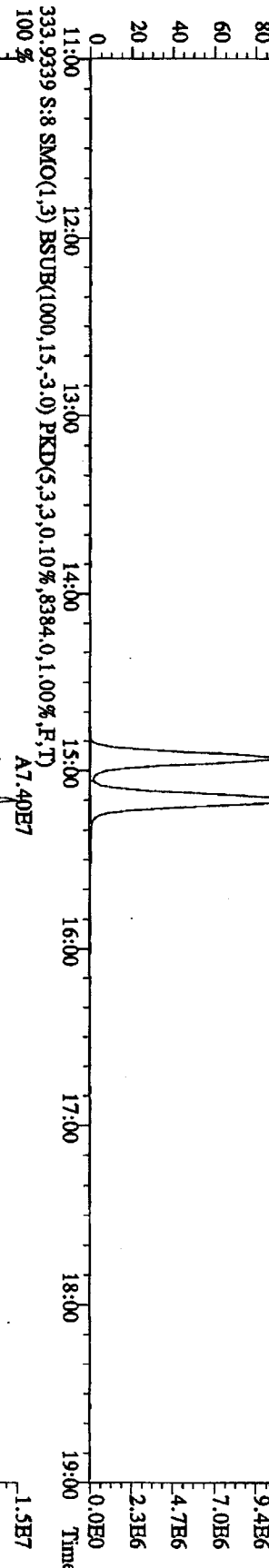
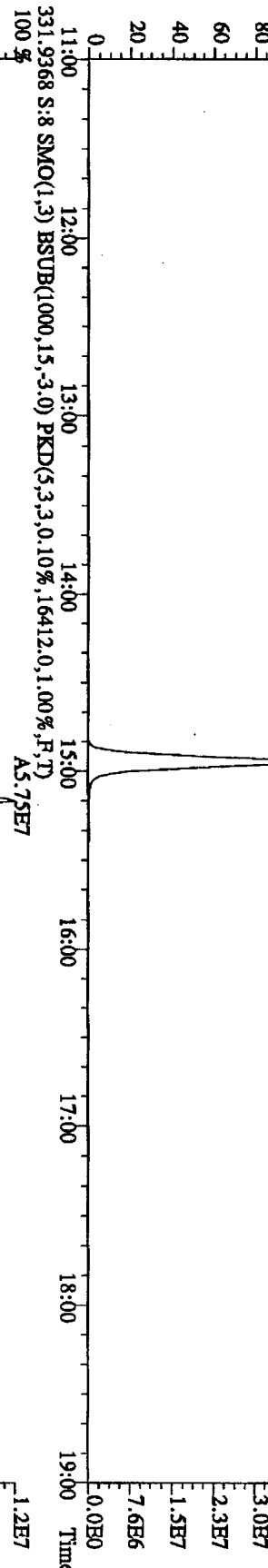
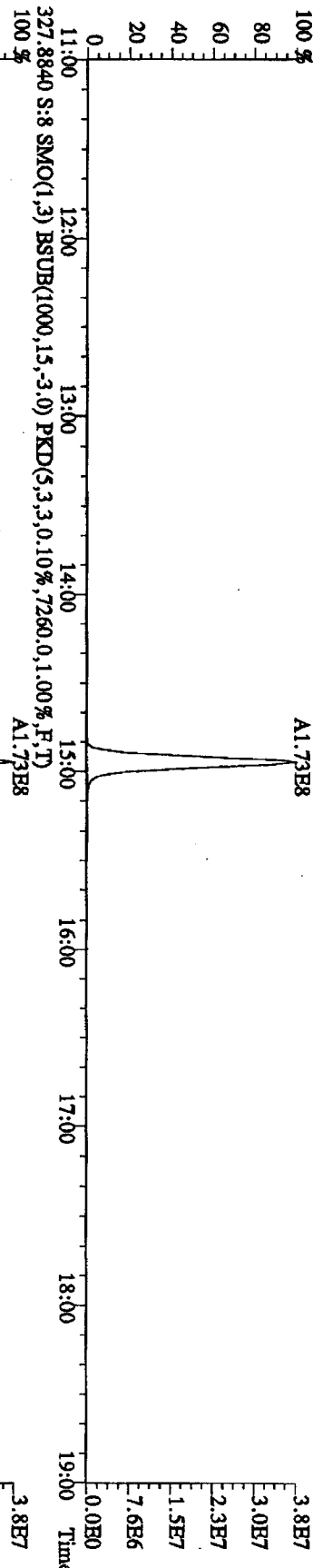
File:26IL105ID2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES  
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3880,0.1,0.0%,F,T)  
 100 %



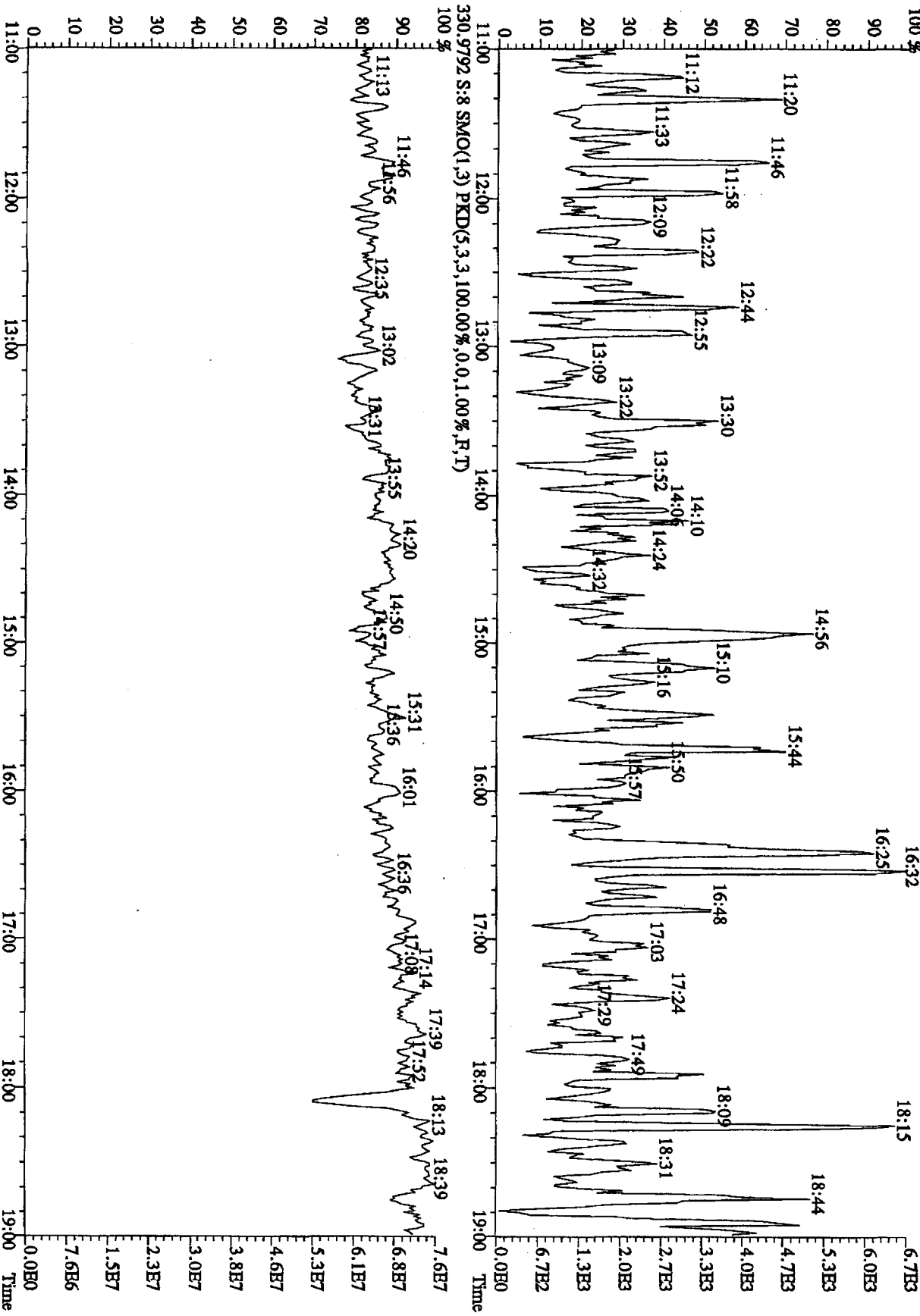
File:261L10SD2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SB  
 Sample#9 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES  
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6028.0,1.00%,F,T)  
 100% A1.68E8



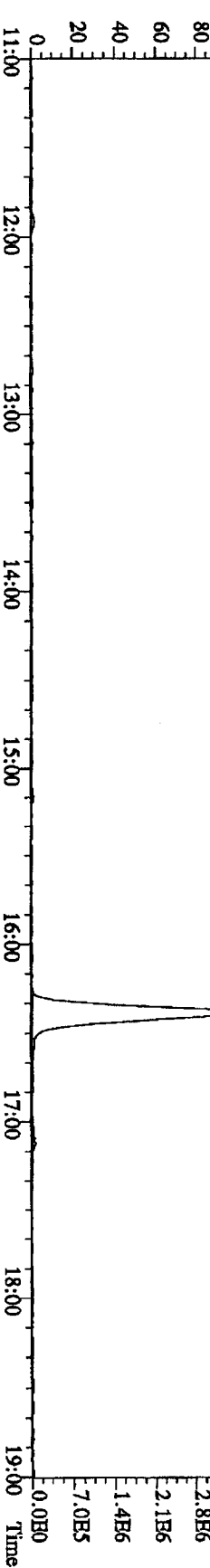
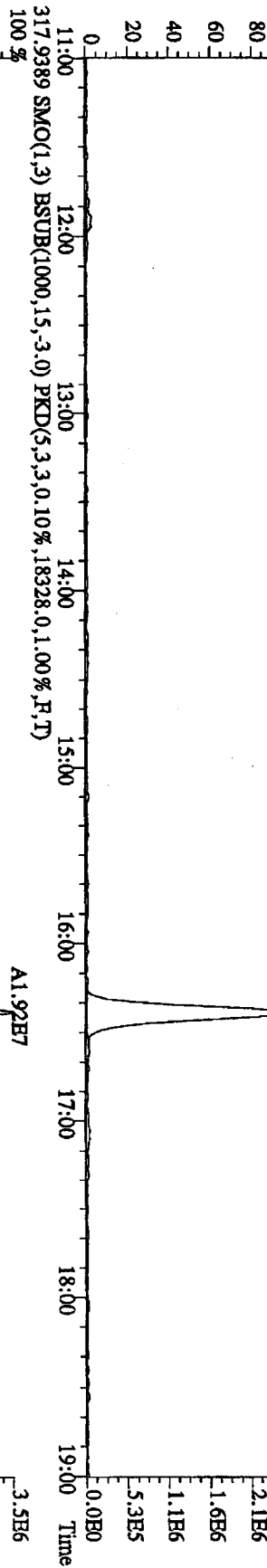
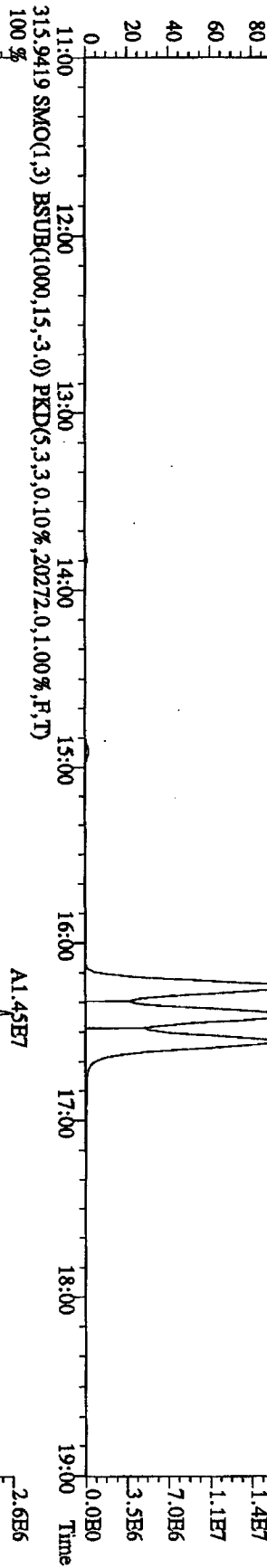
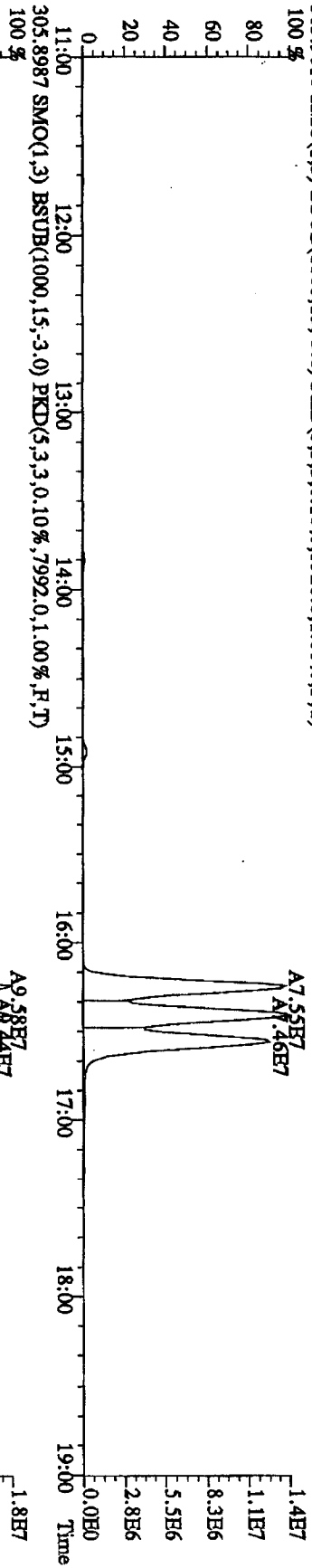
File:26IL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC EI+ Voltage SIR 70SE  
 Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES  
 327.8840 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7260,0,1,00%,F,T)  
 100% A1.73E8



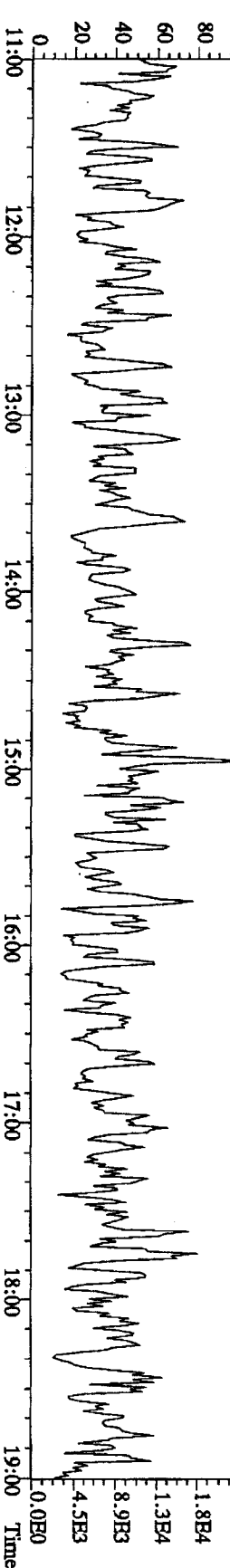
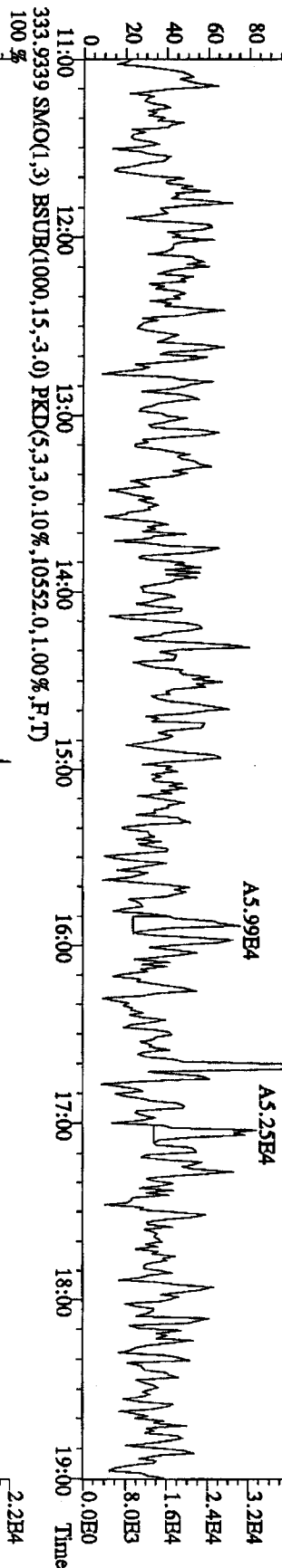
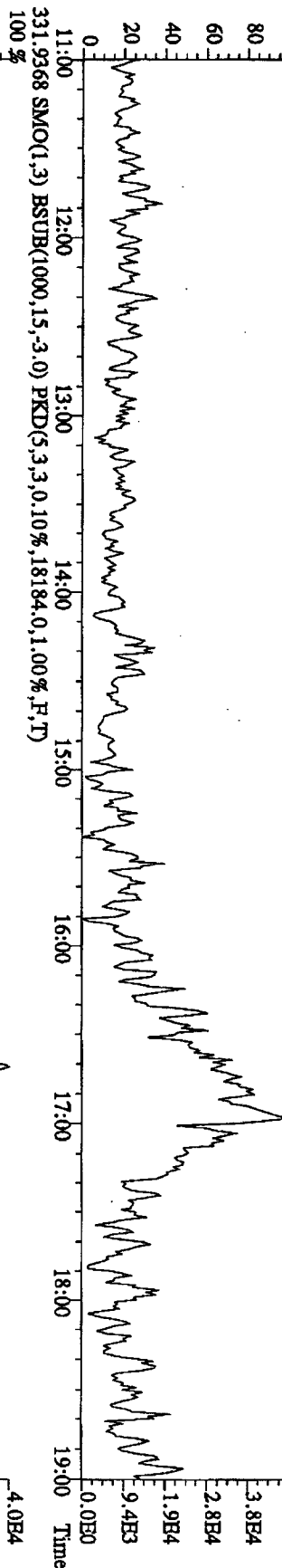
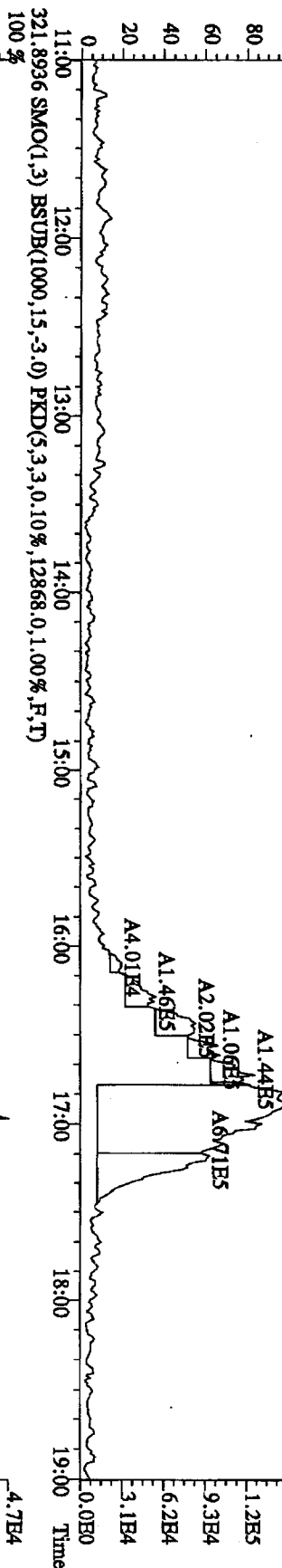
File:26IL105D2 #1-1242 Acq:26-JUL-2010 12:33:16 GC FI + Voltage SIR 70SE  
 Sample#8 Text:ST0726D :CS-5 10DXN339 Exp:DB225RES  
 375.8364 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2080.0,1.00%,F,T)



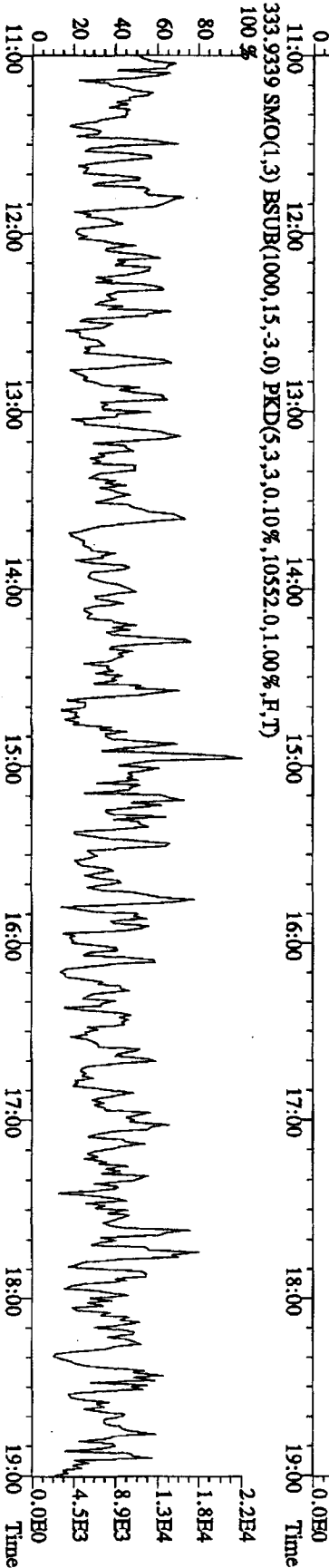
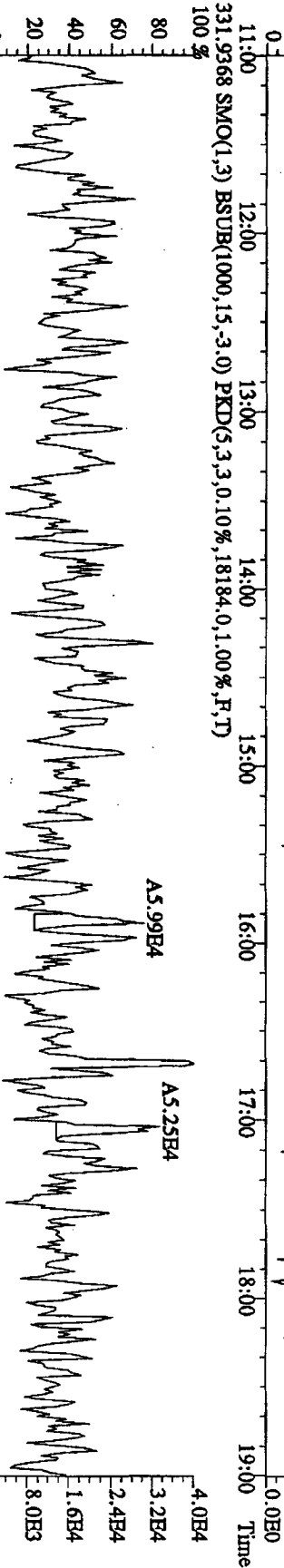
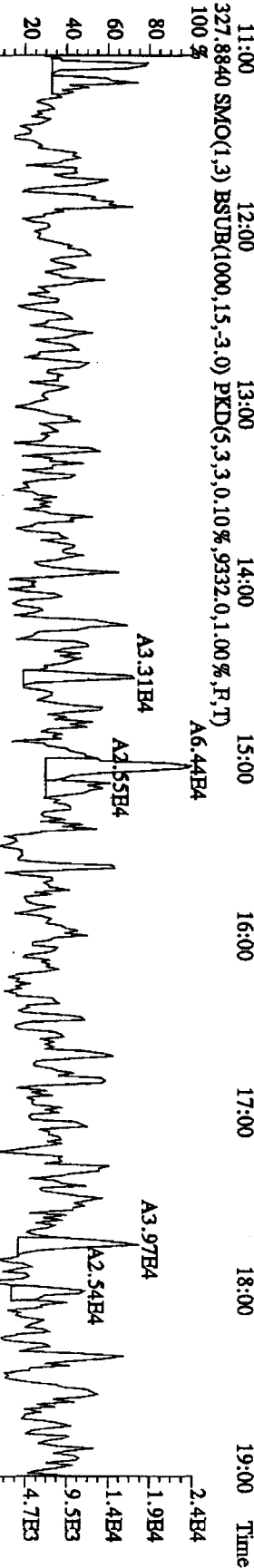
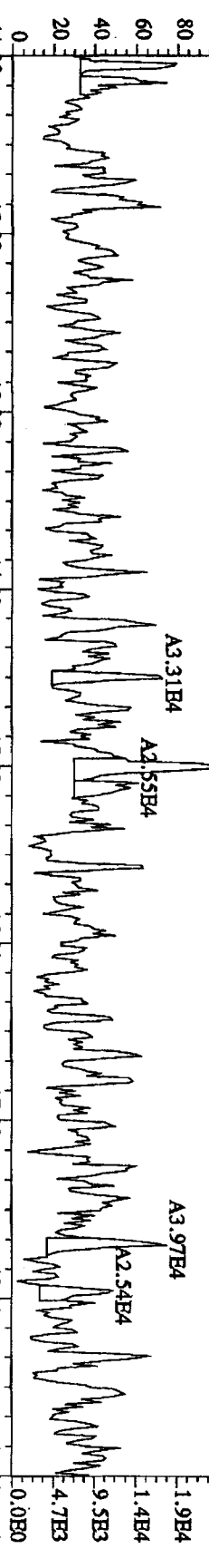
File:261L105D2 #1-1242 Acq:26-JUL-2010 08:18:34 GC:EI+ Voltage:500V SIR 70SE  
 Sample#1 Text:CP0726 :DB-225 CP5M 3732-06 Exp:DB225RES  
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5928.0,1,100%,F,T)



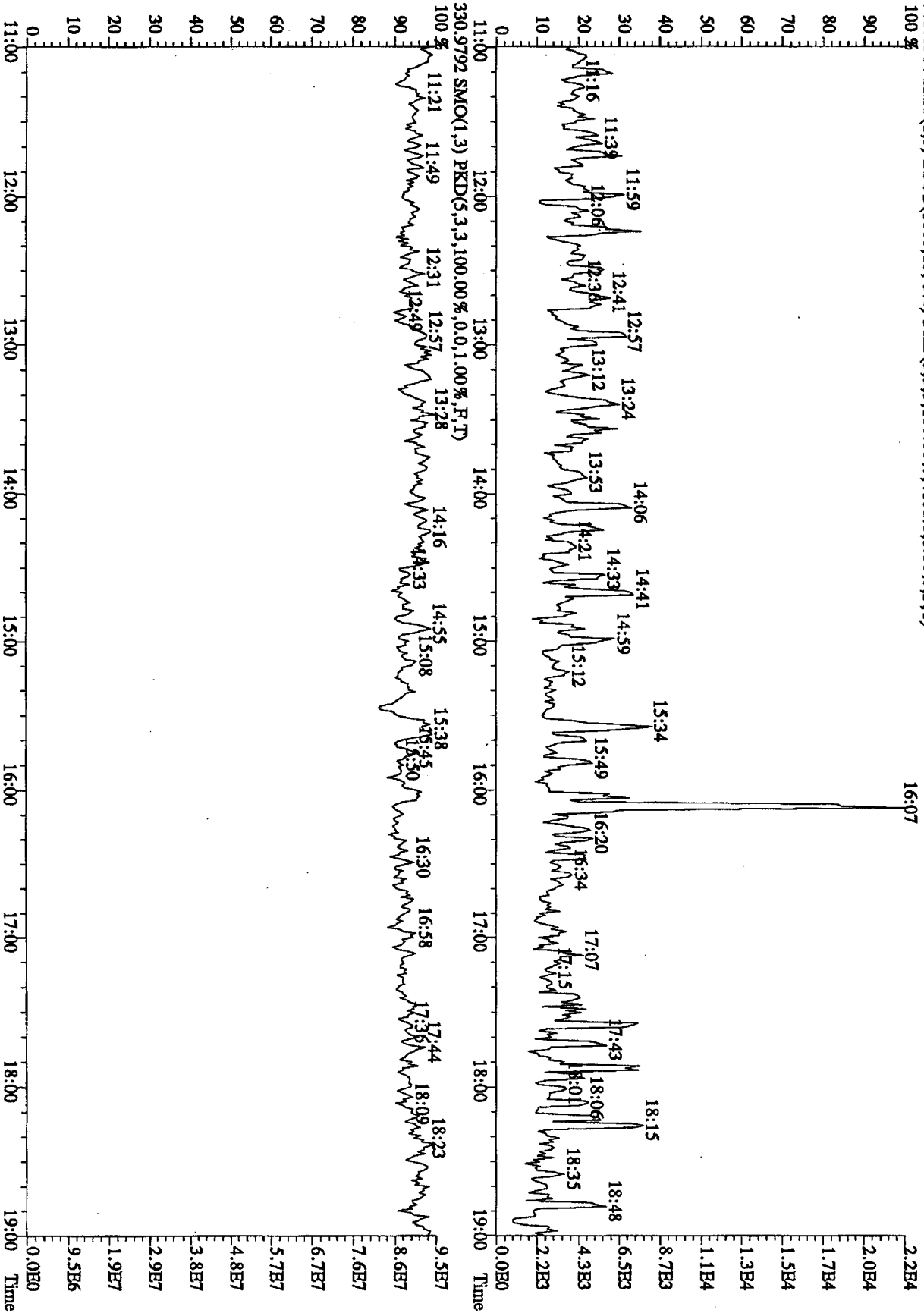
File: 26IL105D2 #1-1242 Acq: 26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0726 :DB-225 CPSM 3732-06 Exp: DB225RES  
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9128.0,1.00%,F,T)  
 100%



File: 26L105D2 #1-1242 Acq: 26-JUL-2010 08:18:34 GC EI+ Voltage SIR 70SE  
 Sample#1 Text: CP0726 : DB-225 CPM 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%

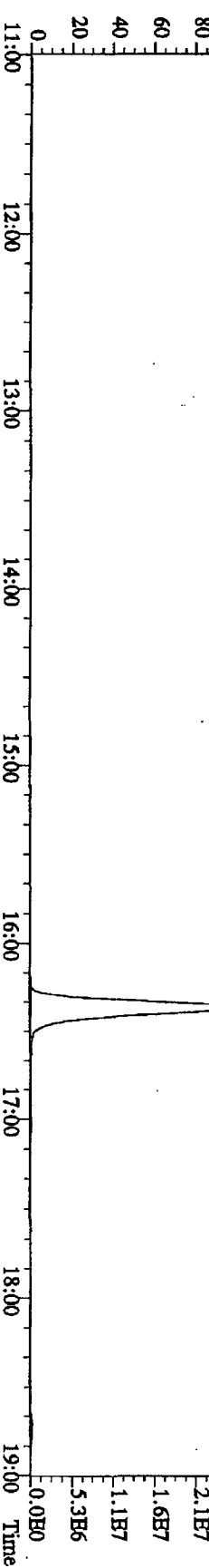
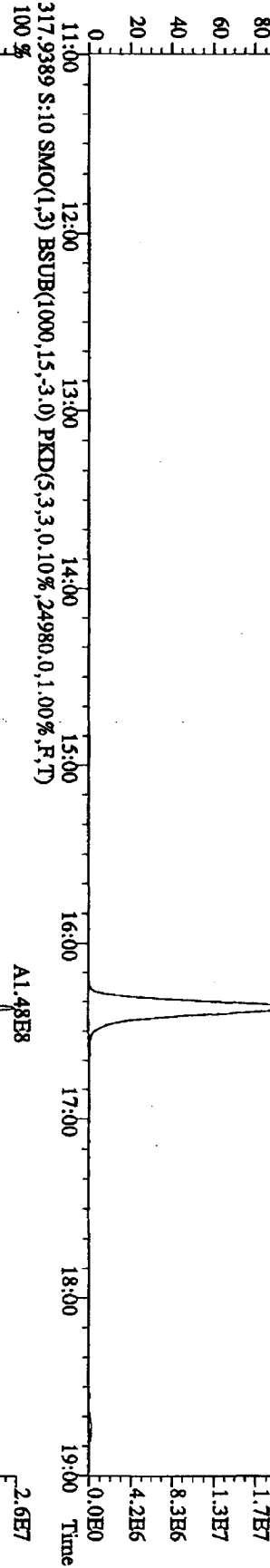
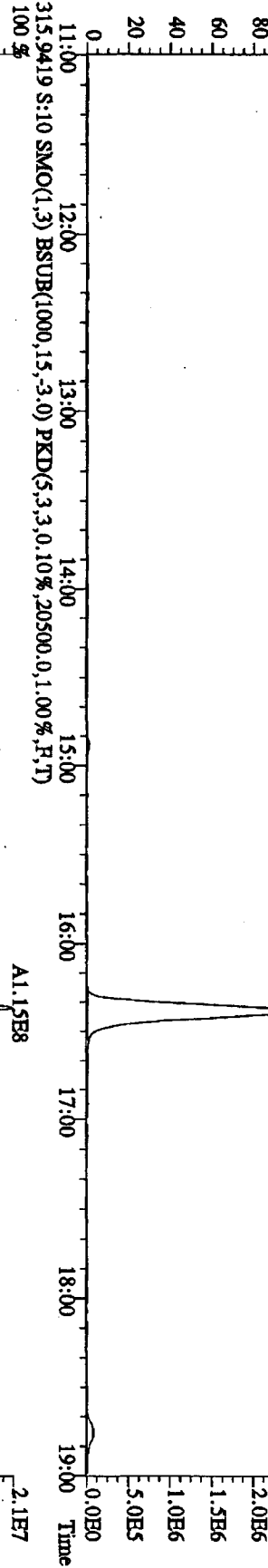
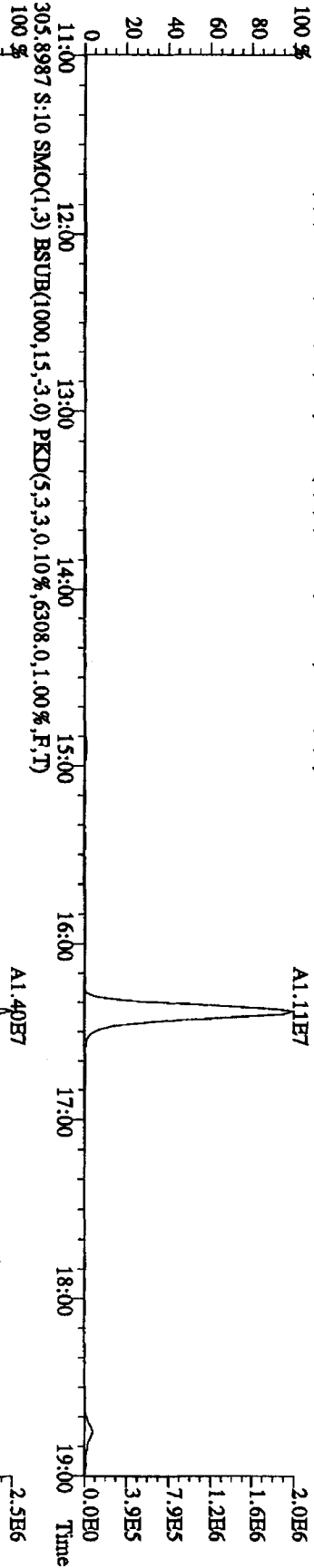


File: 261105D2 #1-1242 Acq: 26-JUL-2010 08:18:34 GC HI+ Voltage SIR 70SE  
 Sample#1 Text: CP0726 : DB-225 CPM 3732-06 Exp: DB225RES  
 375.8364 SMO(1.3) BSUB(1000,15,3.0) PKD(5,3,3,100.00%,4108,0.1,00%,F,T)

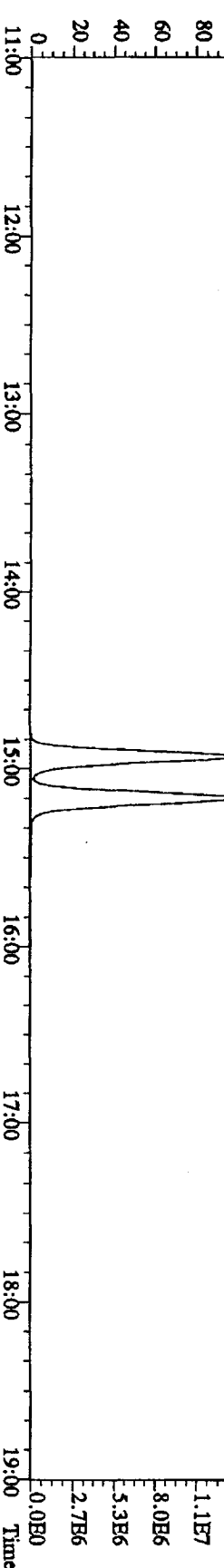
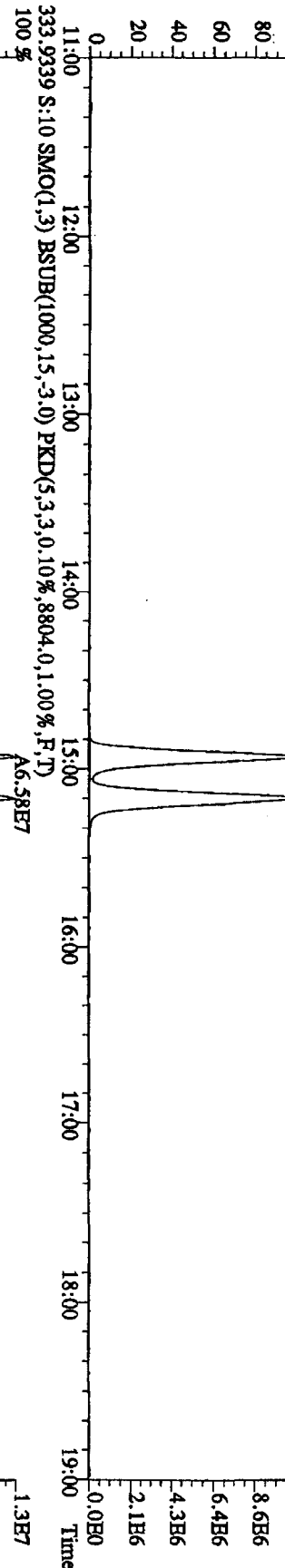
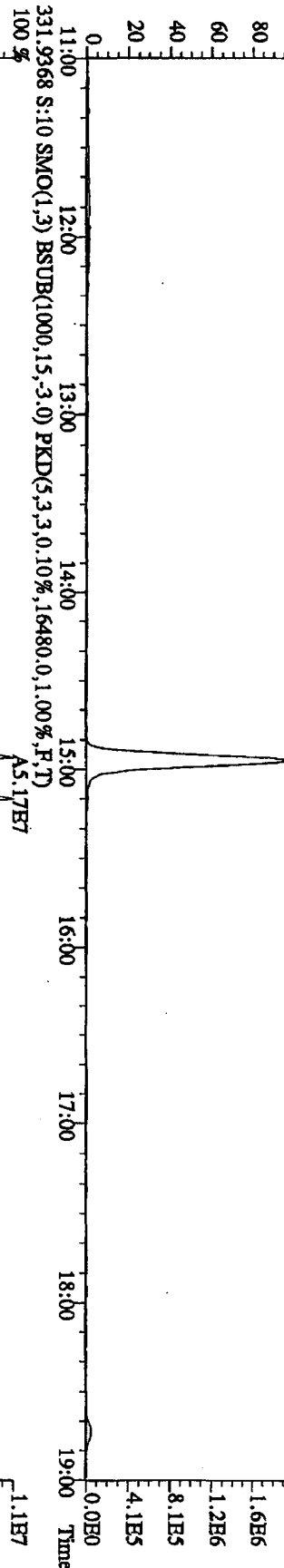
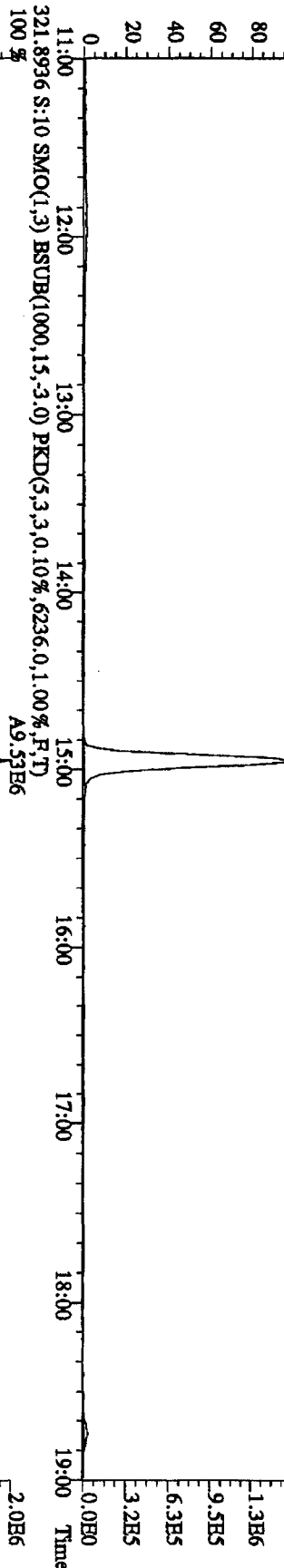




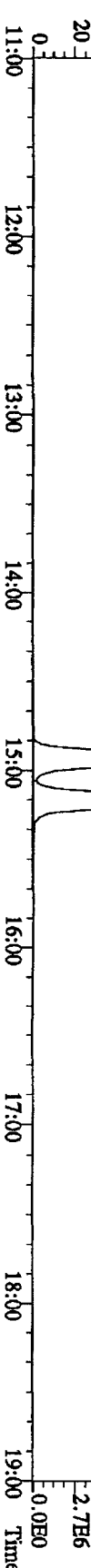
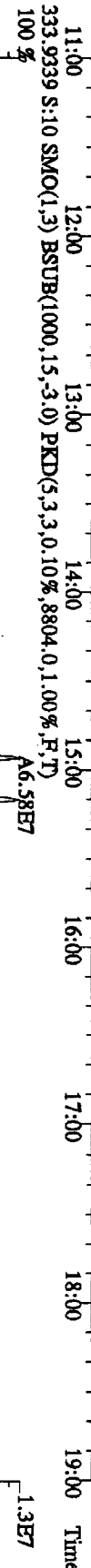
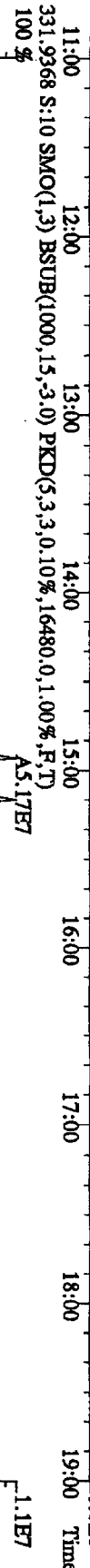
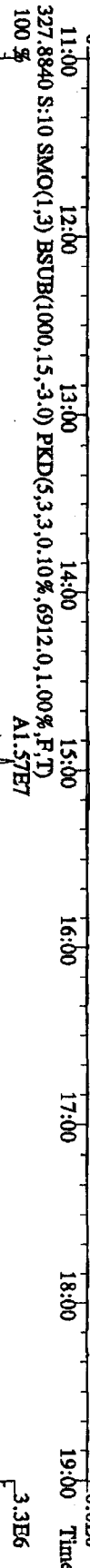
File:26JL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE  
 Sample#10 Text:ST0726F 2nd Source 10DXN340 Exp:IDB225RES  
 303.9016 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4628,0,1,00%,F,T)  
 100 %



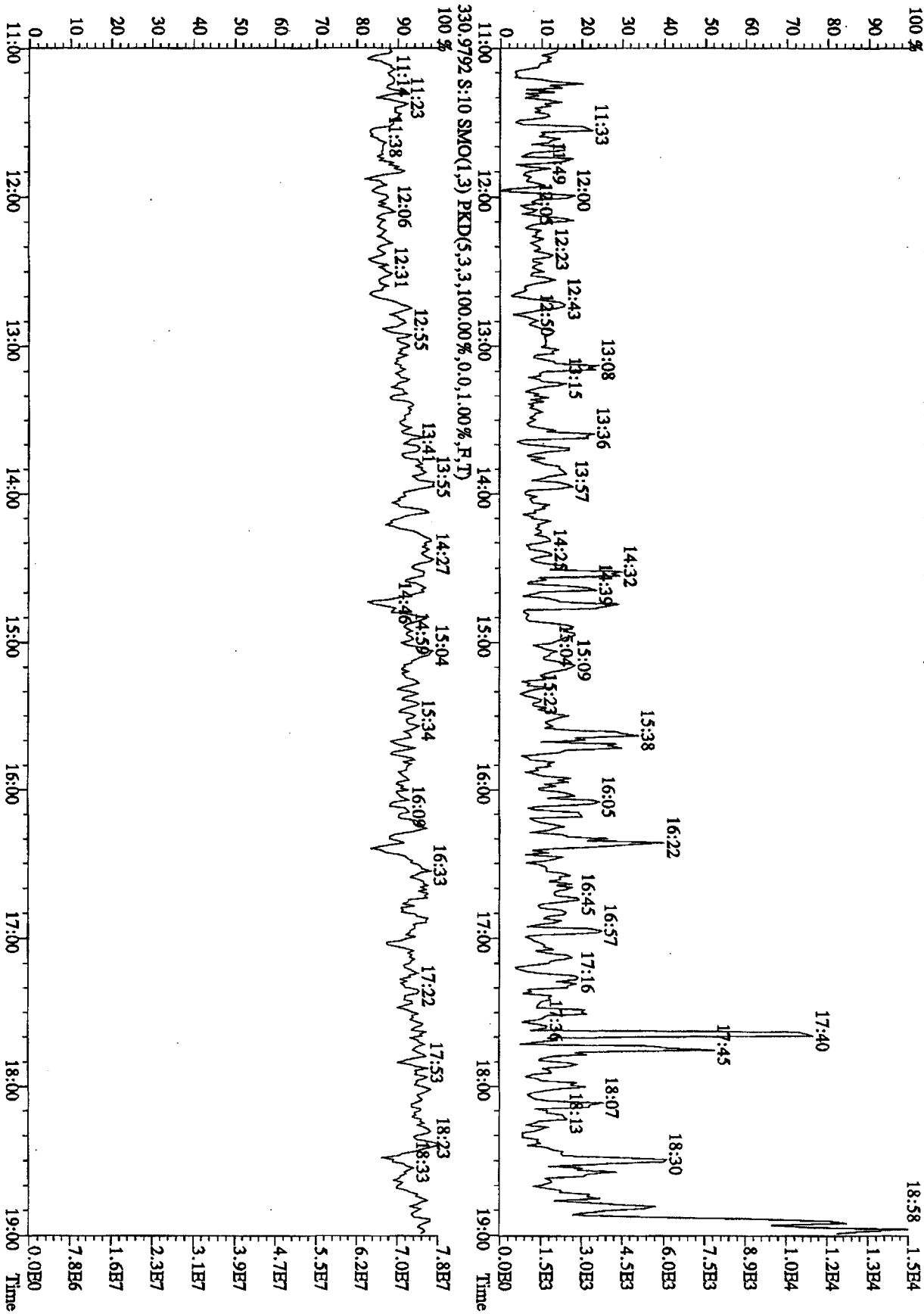
File:26IL105D2 #1-1242 Acq:26-JUL-2010 13:40:52 GC EI+ Voltage SIR 70SE  
 Sample#10 Text:ST0726F 2nd Source 10DXN340 Exp:DB225RES  
 319.8965 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5104,0,1,00%,F,T)  
 100% A7.72E6



File: 261105D2 #1-1242 Acq: 26-JUL-2010 13:40:52 GC BR+ Voltage SIR 70SB  
 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)  
 100% A1.57E7



File: 26IL105D2 #1-1242 Acq: 26-JUL-2010 13:40:52 GC HI+ Voltage SIR 70SB  
 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**



Lot Number: G0H210471 Batch Number: 0235512 Date: 8/23/10

Test: TO-9 d/f SOP Reference Number: \_\_\_\_\_

Extraction: [ ] Sep Funnel [x] Soxhlet On: 17:15 Off: 9:20 Soxhlet cycle check 8/24/10

Sample ID	Sample Size	Extraction Date/Init	Adj pH Date/Init 1/2 Split 4 Arches	Conc Date/Init	Vortex & Mix Date/ Init	Cleanup Date/ Init IFB	N2 Date/Init	Final Volume Date/Init	Final Conc
MB	PUF	EL 8/23/10	T.L 8/24/10			T.L 08/25/10		200 μl	
LCS									
LCSD								8/25/10	
1									
2				8/25/10			8/25/10		8/25/10
3									
4									

**Quality Assurance/Quality Control spike information:**

Sample ID: All Spiking Standard Name: 8290/1613 Daily IS  
 Spike ID Number: 10DXN415 Volume: 2.0 mL Conc: 2.0-4.0 ng/mL  
 Spiked By: ECJ Witnessed By: [Signature] Date: 8/23/10

Exp: 10/31/10

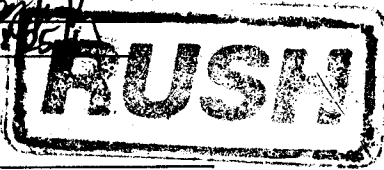
Sample ID: LCS/LCSD Spiking Standard Name: 8290/1613 Daily NS  
 Spike ID Number: 10DXN148 Volume: 100 μL Conc: 4-40 pg/μL  
 Spiked By: ECJ Witnessed By: [Signature] Date: 8/23/10

Exp: 5/26/11

Sample ID: MB only Spiking Standard Name: TO-9 Daily Surr.  
 Spike ID Number: 09DXN351 Volume: 200 μL Conc: 8.0 pg/μL  
 Spiked By: ECJ Witnessed By: [Signature] Date: 8/23/10

Exp: 10/28/10

Sample ID: Daily All Spiking Standard Name: Daily RS  
 Spike ID Number: 10DXN225 Volume: 20 μL Conc: 100 pg/μL  
 Spiked By: [Signature] Witnessed By: [Signature] Date: 8/23/10



**Solvent Manufacturer and Lot Number:**

Reagents: NaOH lot: \_\_\_\_\_ H<sub>2</sub>SO<sub>4</sub>: \_\_\_\_\_ Other: \_\_\_\_\_  
 Extraction Solvent: JT Baker Final Solvent: Same Other: \_\_\_\_\_  
DEM-J23502-ECJ 8/23/10

Comments: J17N69

## Preparation Data Review Checklist

Prep Batch(es) 0235312

Test: TO-9 d/f

Prep Date: 8/23/10

Holding Times:

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: 

Date: 8/23/10

2<sup>nd</sup> Level Reviewer: 

Date: 8/25/10

Comments:

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RQC058

TestAmerica Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 8/24/10  
Time: 10:56:01

LEV 1 2  
 1 1 2  
 - 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: \_\_\_\_\_

\*\*\*\*\*  
 \* QC BATCH: 0235312 \*  
 \* PREP DATE: 8/23/10 16:45  
 \* COMP DATE: 8/24/10 17:00  
 \*\*\*\*\*

Reviewer/Date: VALMORES / 8/24/10  
 Dioxins/Furans, HRGC/HRMS (TO-9)  
 SOXHLET (NONE, Na2SO4)

EXTR	ANL	LOT#	MSRPN#	TEST	EXT	MTH	MATRIX	INIT	FIN	PH'S	ADJ1	ADJ2	EXTRACTION	VOL	EXCHANGE	VOL	SOLVENTS	SPIKE STANDARD/ SURROGATE ID
9/17/10	8/27/10	G0H210471-001	L507E-1-AA	R	11	IK	AIR	1	20.00uL	NA	NA	NA	TOLUENE	700.0	700.0	.0	2.0ML/10DXN415/1613 IS	
COMMENTS:																		
9/17/10	8/27/10	G0H210471-002	L507F-1-AA	R	11	IK	AIR	1	20.00uL	NA	NA	NA	TOLUENE	700.0	700.0	.0	2.0ML/10DXN415/1613 IS	
COMMENTS:																		
9/18/10	8/27/10	G0H210471-003	L507G-1-AA	R	11	IK	AIR	1	20.00uL	NA	NA	NA	TOLUENE	700.0	700.0	.0	2.0ML/10DXN415/1613 IS	
COMMENTS:																		
9/18/10	8/27/10	G0H210471-004	L507H-1-AA	R	11	IK	AIR	1	20.00uL	NA	NA	NA	TOLUENE	700.0	700.0	.0	2.0ML/10DXN415/1613 IS	
COMMENTS:																		
9/17/10	0/00/00	G0H230000-312	L518H-1-AAB		11	IK	AIR	1	20.00uL	NA	NA	NA	TOLUENE	700.0	700.0	.0	200UL/09DXN351/TO9 SARR 2.0ML/10DXN415/1613 IS	
COMMENTS:																		
9/17/10	0/00/00	G0H230000-312	L518H-1-ACC		11	IK	AIR	1	20.00uL	NA	NA	NA	TOLUENE	700.0	700.0	.0	100UL/10DXN48/8290 NS 2.0ML/10DXN415/1613 IS	
COMMENTS:																		
9/17/10	0/00/00	G0H230000-312	L518H-1-ADL	R	11	IK	AIR	1	20.00uL	NA	NA	NA	TOLUENE	700.0	700.0	.0	100UL/10DXN48/8290 NS 2.0ML/10DXN415/1613 IS	
COMMENTS:																		

R = RUSH C = CLP  
 E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7



Data Checklist  
HRGCMS/LRGCMS Analyses

THE LEADER IN ENVIRONMENTAL TESTING

Lot ID #: 60H210471 Method ID: TO9  
Sample # \_\_\_\_\_

	<u>DB-5</u>	<u>DB-225</u>
Data Analyst:	<u>AK</u>	<u>AL</u>
Date initiated:	<u>8/27/10</u>	<u>8/30/10</u>
Reviewer:	<u>Sh</u>	<u>Sh</u>
Date reviewed:	<u>8/27/10</u>	<u>8/30/10</u>

QA/QC verification:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Daily standard package(s) present?	/	/	/	/
-Method Blank present?	/	/	NA	NA
-LCS/DCS copy present and meets native recovery criteria?	/	/	NA	NO
-Internal standard recoveries within limits?*	/	/	/	/
-Ion ratios within + 15% of theoretical values?	/	/	/	/
-Other QC (Dup,MS,SD) within specs?*	NA	/	NA	NA

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	/	/	/	/
-All raw data present?	/	/	/	/
-Standard target DL's used? If RL's are used specify: _____	/	/	/	/
-DL's below <u>(D)</u> LCL (please circle)?	/	/	/	/
-All positives reported at levels greater than method blank DL's?	/	/	/	/
-Correct RRF's used for method?	/	/	/	/
-Internal standard amounts correct for method?	/	/	/	/
-Target analytes are not saturated?	/	/	/	/
-Dilution/splitting of extract taken into account?	/	/	/	/
-Have dilution calculations been verified?	NA	NA	NA	NA
-Has a manual calculation for the sequence(s) been verified?	/	/	/	/
-Are retention times (RT) correct?	/	/	/	/
-Manual integrations checked?	NA	NA	NA	NA

Comments: (Use other side if necessary)

(D) seen in

\* Recovery limits:

NCASI 551:	40-120%***
Method 8290:	40-135%***
Method 1613:	25-150%***
Method 23:	40-130%***(C14-C16), 25-130%(C17-8), 70-130%(surr.)
PCBs:	25-150%***
Method 8280:	40-120%***
DFLM01.0:	25-150%***
Method 1614:	25-150%***

\*\*RPD limits:

50%
20%
50%
50%
50%

\*\*\* Lower recoveries are acceptable if I.S. S/N ≥ 10:1 and DL's are <LCL for target analytes.

# 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*

Instrument: SV5 \_\_\_\_\_

ICAL Date: 08/23/2010 \_\_\_\_\_

DFTPP ID: DFT0825

Initiator/Date: SRS/08/26/2010 \_\_\_\_\_

Standard ID: HSL0825

Reviewer/Date: Brian Ziegler 8/24/10

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: <u>Indeno(1,2,3-cd)pyrene</u>	N/A	<input checked="" type="checkbox"/>
Non-CCC ≤ 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 ≤ 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-Dichlorophenol	<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 OAPP 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 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"/>

GC/MS INSTRUMENT LOG  
SEMI-VOLATILES

Method Key (MTH Column)

QL = EPA 8270C (WS-MS-0005)	Inst ID : sv5.i
JZ = EPA TO-13A (WS-MS-0005)	Batch ID : 082510.B
VX = EPA 8270C-SIM (mod) CWM (WS-MS-0003)	ICAL Date: See Calib Report
QI = EPA 8270C-SIM (WS-MS-0008)	See raw data for standard IDs
FX = PAH-SIM Isotope Dilution (WS-MS-0006)	
F9 = EPA 8270C-SIM (mod) 1,4-Dioxane (WS-MS-0011)	

Date	Time	USER	Sample ID	File ID	Vol or Wt	Extract Vol	Diln	MTH	Comments
25-AUG-2010	17:15	srs	PRIMER	QC001.D	NA	NA	NA		
25-AUG-2010	17:39	srs	DFTPP 50ug/ml	DFT0825.D	NA	NA	NA		
25-AUG-2010	17:59	srs	HSL_050 ug/ml CS-4	HSL0825.D	NA	NA	NA		
25-AUG-2010	18:26	srs	Benzidines ICV 50ug/mL	S082501.D	1000 Sa	1 mL	1		
25-AUG-2010	18:52	srs	L518J1AA G0H230000-315B	S082502.D	1000 Sa	1 mL	1	JZ	
25-AUG-2010	19:18	srs	L518J1AC G0H230000-315C	S082503.D	1000 Sa	1 mL	1	JZ	
25-AUG-2010	19:44	srs	L518J1AD G0H230000-315L	S082504.D	1000 Sa	1 mL	1	JZ	
25-AUG-2010	20:10	srs	L507J1AA G0H210471-5	S082505.D	1000 Sa	1 mL	1	JZ	PT 4 1,2 DUB ↓
25-AUG-2010	20:36	srs	L507K1AA G0H210471-6	S082506.D	1000 Sa	1 mL	1	JZ	↓
25-AUG-2010	21:02	srs	L507L1AA G0H210471-7	S082507.D	1000 Sa	1 mL	1	JZ	↓
25-AUG-2010	21:28	srs	L507M1AA G0H210471-8	S082508.D	1000 Sa	1 mL	1	JZ	↓

TestAmerica West Sacramento  
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 25-AUG-2010 17:59  
 Lab File ID: HSL0825.D Init. Cal. Date(s): 17-AUG-2010 23-AUG-2010  
 Analysis Type: Init. Cal. Times: 17:32 18:50  
 Lab Sample ID: HSL\_050 ug/ml CS-4 Quant Type: ISTD  
 Method: \\SV5\C\chem\sv5.i\082510.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Fluorophenol	1.47923	1.47765	1.47765	0.010	-0.10670	50.00000	Averaged
8 Phenol-d5	1.89473	1.89596	1.89596	0.010	0.06454	50.00000	Averaged
9 2-Chlorophenol-d4	1.59813	1.59630	1.59630	0.010	-0.11480	50.00000	Averaged
10 1,2-Dichlorobenzene-d4	0.99431	0.97237	0.97237	0.010	-2.20714	50.00000	Averaged
11 Nitrobenzene-d5	0.35699	0.36054	0.36054	0.010	0.99652	50.00000	Averaged
12 2-Fluorobiphenyl	1.26594	1.27379	1.27379	0.010	0.61965	50.00000	Averaged
13 2,4,6-Tribromophenol	0.15648	0.16163	0.16163	0.010	3.28895	50.00000	Averaged
14 Terphenyl-d14	0.77396	0.81336	0.81336	0.010	5.09047	50.00000	Averaged
15 N-Nitrosodimethylamine	1.01809	0.99481	0.99481	0.010	-2.28683	50.00000	Averaged
16 Pyridine	1.68687	1.63655	1.63655	0.010	-2.98330	50.00000	Averaged
23 Aniline	2.37259	2.40094	2.40094	0.010	1.19479	50.00000	Averaged
24 Phenol	1.99436	2.00651	2.00651	0.010	0.60909	20.00000	Averaged
26 Bis(2-chloroethyl) ether	1.52541	1.52710	1.52710	0.010	0.11104	50.00000	Averaged
27 2-Chlorophenol	1.58023	1.57968	1.57968	0.010	-0.03478	50.00000	Averaged
28 1,3-Dichlorobenzene	1.74334	1.72696	1.72696	0.010	-0.93965	50.00000	Averaged
29 1,4-Dichlorobenzene	1.76599	1.77484	1.77484	0.010	0.50116	20.00000	Averaged
30 Benzyl Alcohol	1.08397	1.08730	1.08730	0.010	0.30784	50.00000	Averaged
31 1,2-Dichlorobenzene	1.66769	1.66307	1.66307	0.010	-0.27679	50.00000	Averaged
32 2-Methylphenol	1.48902	1.52123	1.52123	0.010	2.16287	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.90571	2.86191	2.86191	0.010	-1.50742	50.00000	Averaged
34 4-Methylphenol	1.58517	1.58639	1.58639	0.010	0.07681	50.00000	Averaged
36 Hexachloroethane	0.62210	0.62093	0.62093	0.010	-0.18774	50.00000	Averaged
37 N-Nitrosodipropylamine	1.11560	1.10054	1.10054	0.050	-1.34936	50.00000	Averaged
42 Nitrobenzene	0.35575	0.35306	0.35306	0.010	-0.75767	50.00000	Averaged
44 Isophorone	0.67537	0.68710	0.68710	0.010	1.73628	50.00000	Averaged
45 2-Nitrophenol	0.19133	0.19328	0.19328	0.010	1.02010	20.00000	Averaged
46 2,4-Dimethylphenol	0.35866	0.36610	0.36610	0.010	2.07568	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.40130	0.40954	0.40954	0.010	2.05169	50.00000	Averaged
49 2,4-Dichlorophenol	0.26143	0.26623	0.26623	0.010	1.83922	20.00000	Averaged
50 Benzoic Acid	0.20092	0.20643	0.20643	0.010	2.74097	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.28301	0.28084	0.28084	0.010	-0.76852	50.00000	Averaged
52 Naphthalene	1.11324	1.10109	1.10109	0.010	-1.09111	50.00000	Averaged
54 4-Chloroaniline	0.43919	0.43844	0.43844	0.010	-0.17064	50.00000	Averaged
57 Hexachlorobutadiene	0.13411	0.13424	0.13424	0.010	0.09592	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30380	0.30990	0.30990	0.010	2.00561	20.00000	Averaged
63 2-Methylnaphthalene	0.67962	0.68930	0.68930	0.010	1.42389	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.30646	0.30771	0.30771	0.050	0.40787	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.30154	0.31262	0.31262	0.010	3.67316	20.00000	Averaged
70 2,4,5-Trichlorophenol	0.32858	0.33340	0.33340	0.010	1.46863	50.00000	Averaged
71 2-Chloronaphthalene	1.11567	1.12610	1.12610	0.010	0.93496	50.00000	Averaged
73 2-Nitroaniline	0.38116	0.38836	0.38836	0.010	1.88888	50.00000	Averaged
76 Dimethylphthalate	1.29156	1.29985	1.29985	0.010	0.64162	50.00000	Averaged

Manual calculation for Indeno(1,2,3-cd)pyrene  
 $\frac{509252}{462818} \times \frac{40}{50} = 0.88103$  R7 8/26/10

9/28/10



TestAmerica West Sacramento  
 CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 25-AUG-2010 17:59  
 Lab File ID: HSL0825.D Init. Cal. Date(s): 17-AUG-2010 23-AUG-2010  
 Analysis Type: Init. Cal. Times: 17:32 18:50  
 Lab Sample ID: HSL\_050 ug/ml CS-4 Quant Type: ISTD  
 Method: \\SV5\C\chem\sv5.i\082510.B\8270f.m

COMPOUND	RRF / AMOUNT	RF50	CCAL RRP50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
77 Acenaphthylene	1.95828	2.00695	2.00695	0.010	2.48541	50.00000	Averaged
79 2,6-Dinitrotoluene	0.28888	0.29585	0.29585	0.010	2.41096	50.00000	Averaged
80 3-Nitroaniline	0.38296	0.39369	0.39369	0.010	2.80274	50.00000	Averaged
81 Acenaphthene	1.24672	1.21491	1.21491	0.010	-2.55114	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000	49.02505	0.17060	0.050	-1.94991	0.000e+000	Quadratic
83 Dibenzofuran	1.64538	1.66558	1.66558	0.010	1.22761	50.00000	Averaged
84 4-Nitrophenol	0.17088	0.17729	0.17729	0.050	3.75225	50.00000	Averaged
86 2,4-Dinitrotoluene	0.38742	0.39749	0.39749	0.010	2.59856	50.00000	Averaged
91 Fluorene	1.34904	1.33503	1.33503	0.010	-1.03798	50.00000	Averaged
92 Diethylphthalate	1.35372	1.35757	1.35757	0.010	0.28417	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.55385	0.54950	0.54950	0.010	-0.78451	50.00000	Averaged
94 4-Nitroaniline	0.37837	0.39948	0.39948	0.010	5.57821	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000	45.92860	0.13130	0.010	-8.14281	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.62622	0.63241	0.63241	0.010	0.98904	20.00000	Averaged
100 Azobenzene	0.88363	0.90494	0.90494	0.010	2.41134	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19190	0.19515	0.19515	0.010	1.69447	50.00000	Averaged
108 Hexachlorobenzene	0.20744	0.20896	0.20896	0.010	0.73120	50.00000	Averaged
110 Pentachlorophenol	0.12850	0.13738	0.13738	0.010	6.91284	20.00000	Averaged
114 Phenanthrene	1.25231	1.25711	1.25711	0.010	0.38328	50.00000	Averaged
115 Anthracene	1.26014	1.28007	1.28007	0.010	1.58170	50.00000	Averaged
118 Carbazole	1.17754	1.17247	1.17247	0.010	-0.42989	50.00000	Averaged
120 Di-n-Butylphthalate	1.42590	1.44268	1.44268	0.010	1.17627	50.00000	Averaged
126 Fluoranthene	1.13179	1.15063	1.15063	0.010	1.66517	20.00000	Averaged
127 Benzidine	0.82752	0.84480	0.84480	0.010	2.08810	50.00000	Averaged
128 Pyrene	1.24186	1.32562	1.32562	0.010	6.74471	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.70995	0.74421	0.74421	0.010	4.82543	50.00000	Averaged
136 Butylbenzylphthalate	0.64263	0.66550	0.66550	0.010	3.55808	50.00000	Averaged
138 Benzo(a)Anthracene	1.05752	1.07551	1.07551	0.010	1.70100	50.00000	Averaged
139 Chrysene	1.09407	1.09091	1.09091	0.010	-0.28855	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.38440	0.38757	0.38757	0.010	0.82451	50.00000	Averaged
141 bis(2-ethylhexyl)Phthalate	0.88842	0.89991	0.89991	0.010	1.29330	50.00000	Averaged
142 Di-n-octylphthalate	1.42876	1.38817	1.38817	0.010	-2.84094	20.00000	Averaged
144 Benzo(b)fluoranthene	0.94959	0.87430	0.87430	0.010	-7.92928	50.00000	Averaged
145 Benzo(k)fluoranthene	1.11337	1.20623	1.20623	0.010	8.34018	50.00000	Averaged
147 Benzo(e)pyrene	0.94145	0.94970	0.94970	0.010	0.87596	50.00000	Averaged
148 Benzo(a)pyrene	1.03915	1.07375	1.07375	0.010	3.33058	20.00000	Averaged
151 Indeno(1,2,3-cd)pyrene	0.88334	0.88103	0.88103	0.010	-0.26098	50.00000	Averaged
152 Dibenzo(a,h)anthracene	0.94269	0.93223	0.93223	0.010	-1.10901	50.00000	Averaged
153 Benzo(g,h,i)perylene	1.00655	0.99036	0.99036	0.010	-1.60857	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06296	2.08052	2.08052	0.010	0.85127	50.00000	Averaged

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\082510.B\HSL0825.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 25-AUG-2010 17:59  
 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\082510.B\8270f.m  
 Meth Date : 26-Aug-2010 09:52 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.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					ON-COL
			CAL-AMT	ON-COL	RT	EXP RT	REL RT	
	MASS		( NG)	( NG)				
* 1 1,4-Dichlorobenzene-d4	152		4.184	4.184	(1.000)	139326	40.0000	
* 2 Naphthalene-d8	136		5.593	5.593	(1.000)	612767	40.0000	
* 3 Acenaphthene-d10	164		7.707	7.707	(1.000)	325539	40.0000	
* 4 Phenanthrene-d10	188		9.686	9.686	(1.000)	500311	40.0000	
* 5 Chrysene-d12	240		14.101	14.101	(1.000)	476783	40.0000	
* 6 Perylene-d12	264		16.495	16.495	(1.000)	462414	40.0000	
\$ 7 2-Fluorophenol	112		2.951	2.951	(0.705)	257344	50.0000	49.95
\$ 8 Phenol-d5	99		3.821	3.821	(0.913)	330195	50.0000	50.03
\$ 9 2-Chlorophenol-d4	132		3.976	3.976	(0.950)	278007	50.0000	49.94
\$ 10 1,2-Dichlorobenzene-d4	152		4.381	4.381	(1.047)	169345	50.0000	48.90
\$ 11 Nitrobenzene-d5	82		4.806	4.806	(0.859)	276162	50.0000	50.50
\$ 12 2-Fluorobiphenyl	172		6.899	6.899	(0.895)	518334	50.0000	50.31
\$ 13 2,4,6-Tribromophenol	330		8.733	8.733	(1.133)	65770	50.0000	51.64
\$ 14 Terphenyl-d14	244		12.319	12.319	(0.874)	484744	50.0000	52.54
15 N-Nitrosodimethylamine	74		1.935	1.935	(0.463)	173253	50.0000	48.86
16 Pyridine	79		1.956	1.956	(0.468)	285017	50.0000	48.51
23 Aniline	93		3.883	3.883	(0.928)	418141	50.0000	50.60
24 Phenol	94		3.831	3.831	(0.916)	349449	50.0000	50.30
26 Bis(2-chloroethyl) ether	93		3.935	3.935	(0.941)	265956	50.0000	50.06
27 2-Chlorophenol	128		3.987	3.987	(0.953)	275113	50.0000	49.98
28 1,3-Dichlorobenzene	146		4.142	4.142	(0.990)	300763	50.0000	49.53
29 1,4-Dichlorobenzene	146		4.194	4.194	(1.002)	309101	50.0000	50.25
30 Benzyl Alcohol	108		4.339	4.339	(1.037)	189362	50.0000	50.15
31 1,2-Dichlorobenzene	146		4.401	4.401	(1.052)	289636	50.0000	49.86
32 2-Methylphenol	108		4.474	4.474	(1.069)	264933	50.0000	51.08
33 2,2'-oxybis(1-Chloropropane)	45		4.515	4.515	(1.079)	498423	50.0000	49.25
34 4-Methylphenol	108		4.629	4.629	(1.106)	276281	50.0000	50.04
36 Hexachloroethane	117		4.733	4.733	(1.131)	108140	50.0000	49.91
37 N-Nitrosodinpropylamine	70		4.671	4.671	(1.116)	191668	50.0000	49.32
42 Nitrobenzene	77		4.826	4.826	(0.863)	270426	50.0000	49.62
44 Isophorone	82		5.085	5.085	(0.909)	526287	50.0000	50.87
45 2-Nitrophenol	139		5.189	5.189	(0.928)	148045	50.0000	50.51
46 2,4-Dimethylphenol	107		5.230	5.230	(0.935)	280419	50.0000	51.04

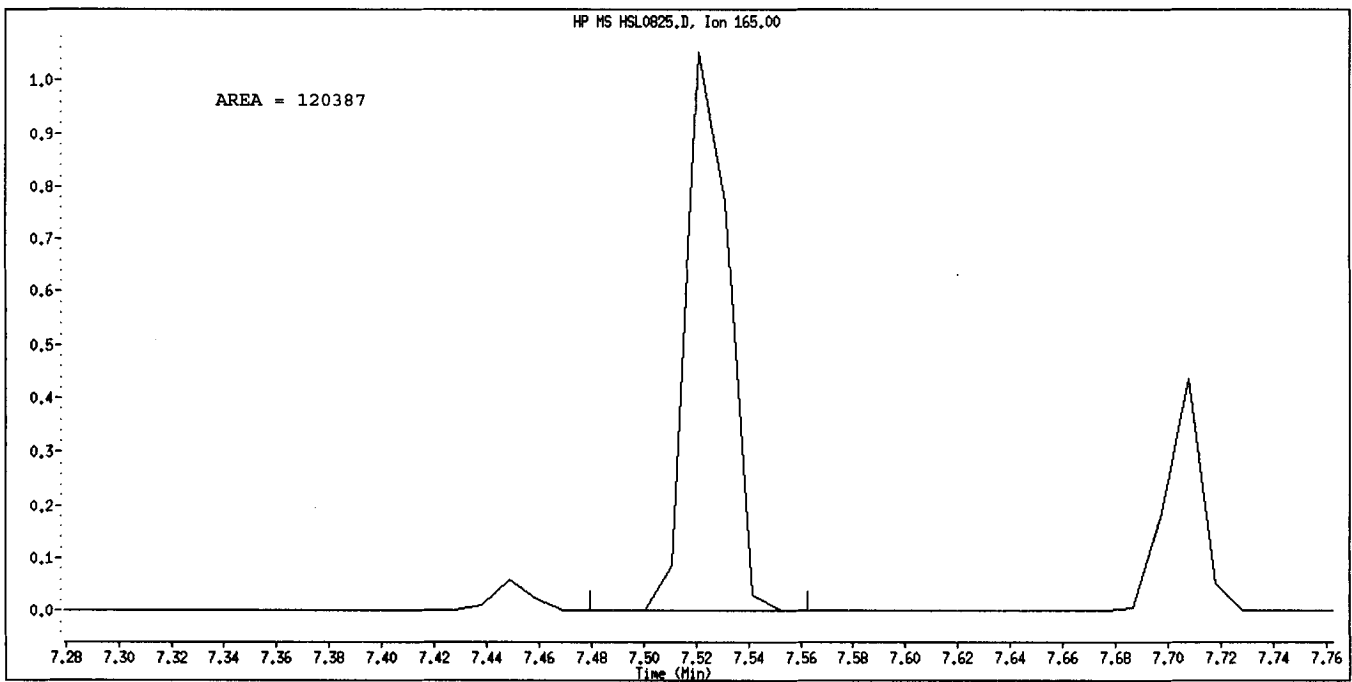
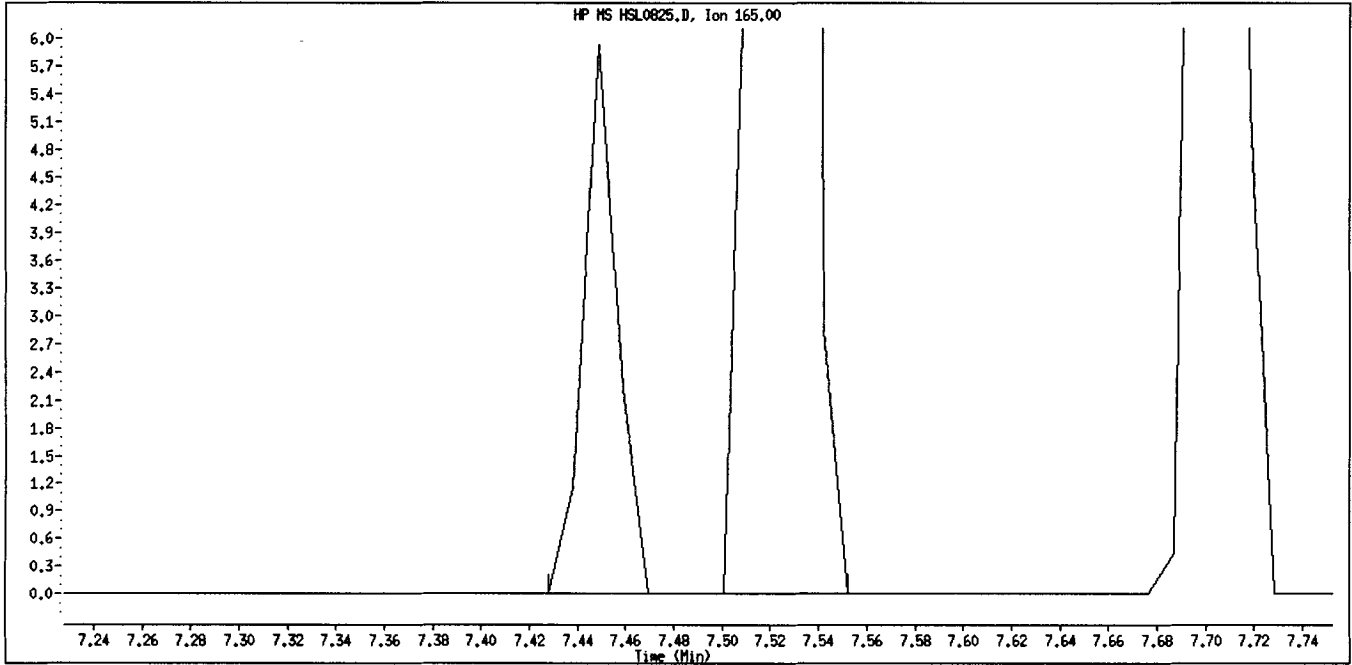
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.344	5.344	(0.956)	313689	50.0000	51.02
49 2,4-Dichlorophenol	162	5.448	5.448	(0.974)	203925	50.0000	50.92
50 Benzoic Acid	122	5.324	5.324	(0.952)	158116	50.0000	51.37
51 1,2,4-Trichlorobenzene	180	5.552	5.552	(0.993)	215109	50.0000	49.62
52 Naphthalene	128	5.624	5.624	(1.006)	843389	50.0000	49.45
54 4-Chloroaniline	127	5.707	5.707	(1.020)	335828	50.0000	49.91
57 Hexachlorobutadiene	225	5.842	5.842	(1.044)	102823	50.0000	50.05
60 4-Chloro-3-Methylphenol	107	6.277	6.277	(1.122)	237368	50.0000	51.00
63 2-Methylnaphthalene	142	6.432	6.432	(1.150)	527974	50.0000	50.71
66 Hexachlorocyclopentadiene	237	6.712	6.712	(0.871)	125216	50.0000	50.20
69 2,4,6-Trichlorophenol	196	6.806	6.806	(0.883)	127211	50.0000	51.84
70 2,4,5-Trichlorophenol	196	6.847	6.847	(0.888)	135669	50.0000	50.73
71 2-Chloronaphthalene	162	7.013	7.013	(0.910)	458237	50.0000	50.47
73 2-Nitroaniline	65	7.179	7.179	(0.931)	158033	50.0000	50.94
76 Dimethylphthalate	163	7.448	7.448	(0.966)	528938	50.0000	50.32
77 Acenaphthylene	152	7.521	7.521	(0.976)	816675	50.0000	51.24
79 2,6-Dinitrotoluene	165	7.521	7.521	(0.976)	120387	50.0000	51.20 (M)
80 3-Nitroaniline	138	7.676	7.676	(0.996)	160203	50.0000	51.40
81 Acenaphthene	153	7.749	7.749	(1.005)	494377	50.0000	48.72
82 2,4-Dinitrophenol	184	7.811	7.811	(1.013)	69420	50.0000	49.02
83 Dibenzofuran	168	7.946	7.946	(1.031)	677763	50.0000	50.61
84 4-Nitrophenol	109	7.883	7.883	(1.023)	72143	50.0000	51.88
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.039)	161748	50.0000	51.30
91 Fluorene	166	8.381	8.381	(1.087)	543257	50.0000	49.48
92 Diethylphthalate	149	8.339	8.339	(1.082)	552427	50.0000	50.14
93 4-Chlorophenyl-phenylether	204	8.401	8.401	(1.090)	223605	50.0000	49.61
94 4-Nitroaniline	138	8.464	8.464	(1.098)	162557	50.0000	52.79
97 4,6-Dinitro-2-methylphenol	198	8.526	8.526	(0.880)	82114	50.0000	45.93
98 N-Nitrosodiphenylamine	169	8.567	8.567	(0.884)	463528	58.6000	59.18
100 Azobenzene	77	8.598	8.598	(0.888)	565940	50.0000	51.20
101 4-Bromophenyl-phenylether	248	9.054	9.054	(0.935)	122045	50.0000	50.85
108 Hexachlorobenzene	284	9.251	9.251	(0.955)	130681	50.0000	50.36
110 Pentachlorophenol	266	9.510	9.510	(0.982)	85917	50.0000	53.46
114 Phenanthrene	178	9.718	9.718	(1.003)	786181	50.0000	50.19
115 Anthracene	178	9.780	9.780	(1.010)	800543	50.0000	50.79
118 Carbazole	167	10.039	10.039	(1.036)	733252	50.0000	49.78
120 Di-n-Butylphthalate	149	10.744	10.744	(1.109)	902234	50.0000	50.59
126 Fluoranthene	202	11.604	11.604	(1.198)	719593	50.0000	50.83
127 Benzidine	184	11.873	11.873	(0.842)	503481	50.0000	51.04
128 Pyrene	202	11.977	11.977	(0.849)	790039	50.0000	53.37
134 3,3'-dimethylbenzidine	212	13.179	13.179	(0.935)	443531	50.0000	52.41
136 Butylbenzylphthalate	149	13.293	13.293	(0.943)	396623	50.0000	51.78
138 Benzo(a)Anthracene	228	14.080	14.080	(0.999)	640983	50.0000	50.85
139 Chrysene	228	14.153	14.153	(1.004)	650159	50.0000	49.86
140 3,3'-Dichlorobenzidine	252	14.112	14.112	(1.001)	230984	50.0000	50.41
141 bis(2-ethylhexyl) Phthalate	149	14.412	14.412	(1.022)	536326	50.0000	50.65
142 Di-n-octylphthalate	149	15.459	15.459	(1.096)	827319	50.0000	48.58
144 Benzo(b)fluoranthene	252	15.915	15.915	(0.965)	505358	50.0000	46.04
145 Benzo(k)fluoranthene	252	15.946	15.946	(0.967)	697220	50.0000	54.17
147 Benzo(e)pyrene	252	16.329	16.329	(0.990)	548943	50.0000	50.44
148 Benzo(a)pyrene	252	16.412	16.412	(0.995)	620649	50.0000	51.66
151 Indeno(1,2,3-cd)pyrene	276	18.236	18.236	(1.106)	509252	50.0000	49.87 (M)
152 Dibenzo(a,h)anthracene	278	18.277	18.277	(1.108)	538847	50.0000	49.44
153 Benzo(g,h,i)perylene	276	18.702	18.702	(1.134)	572446	50.0000	49.20

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
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M 162 benzo b,k Fluoranthene Totals	252					1202578	50.0000	

QC Flag Legend

M - Compound response manually integrated.

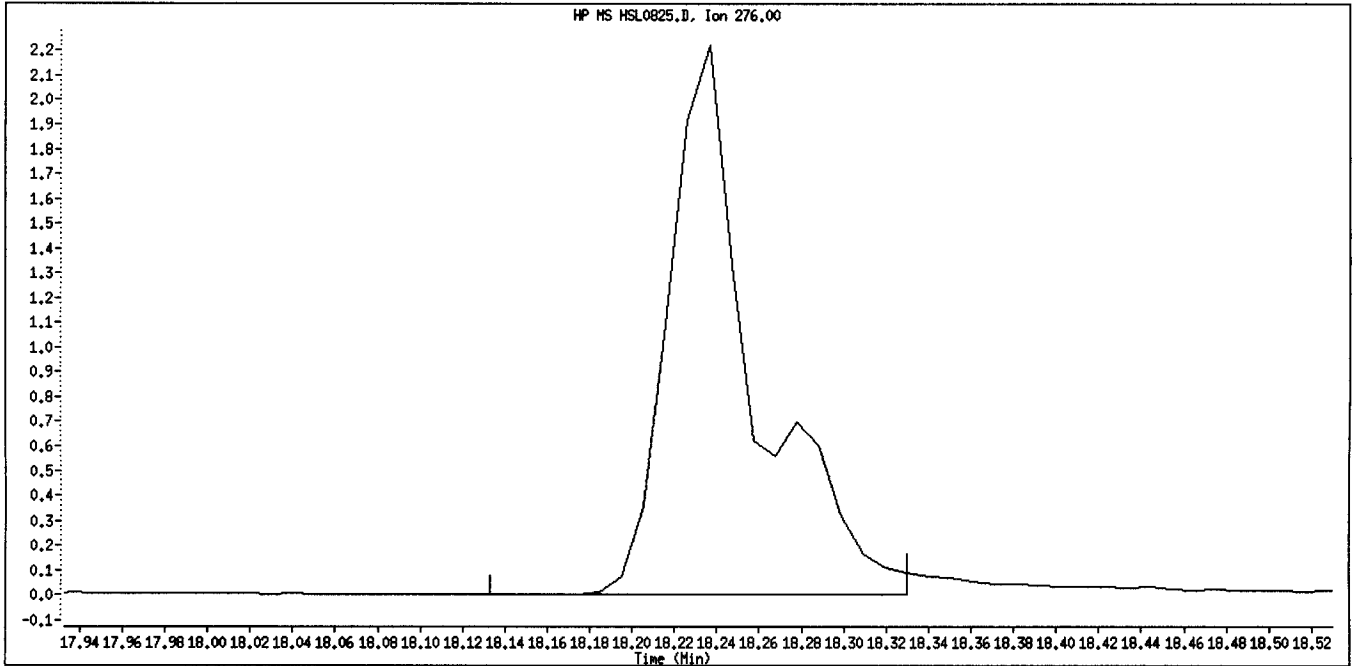
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Inj. Date and Time: 25-AUG-2010 17:59  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 08/26/2010



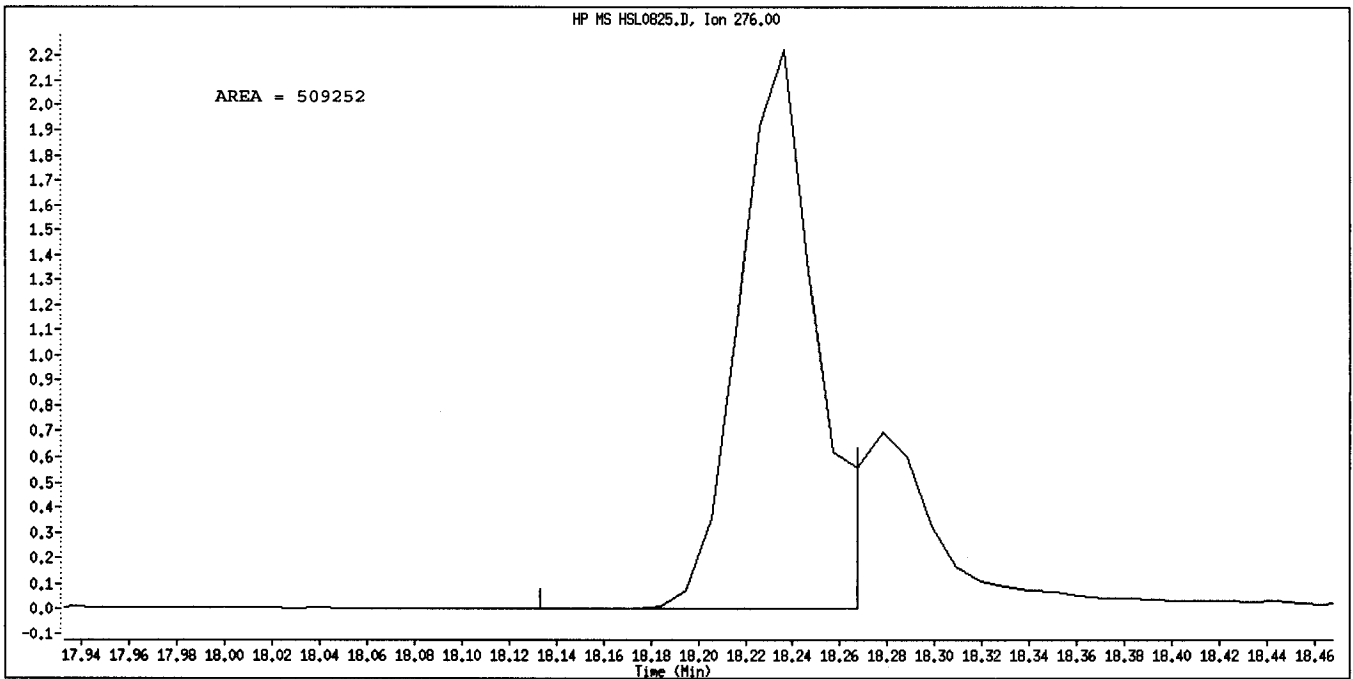
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Manual Integration Reason: Poor Chromatography

by 8/26/10

Data File Name: HSL0825.D  
Inj. Date and Time: 25-AUG-2010 17:59  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/26/2010



Original Integration



Manual Integration

Manually Integrated By: ~~semiva~~ **SRS** 127 8/26/10  
Manual Integration Reason: Poor Chromatography

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\082510.B\HSL0825.D  
 Lab Smp Id: HSL 050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 25-AUG-2010 17:59  
 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\082510.B\8270f.m  
 Meth Date : 26-Aug-2010 09:50 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.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				ON-COL
			CAL-AMT	ON-COL	REL RT	RESPONSE	
	MASS	RT	EXP RT	REL RT	RESPONSE	( NG)	( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	139326	40.0000	
* 2 Naphthalene-d8	136	5.593	5.593	(1.000)	612767	40.0000	
* 3 Acenaphthene-d10	164	7.707	7.707	(1.000)	325539	40.0000	
* 4 Phenanthrene-d10	188	9.686	9.686	(1.000)	500311	40.0000	
* 5 Chrysene-d12	240	14.101	14.101	(1.000)	476783	40.0000	
* 6 Perylene-d12	264	16.495	16.495	(1.000)	462414	40.0000	
\$ 7 2-Fluorophenol	112	2.951	2.951	(0.705)	257344	50.0000	49.95
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	330195	50.0000	50.03
\$ 9 2-Chlorophenol-d4	132	3.976	3.976	(0.950)	278007	50.0000	49.94
\$ 10 1,2-Dichlorobenzene-d4	152	4.381	4.381	(1.047)	169345	50.0000	48.90
\$ 11 Nitrobenzene-d5	82	4.806	4.806	(0.859)	276162	50.0000	50.50
\$ 12 2-Fluorobiphenyl	172	6.899	6.899	(0.895)	518334	50.0000	50.31
\$ 13 2,4,6-Tribromophenol	330	8.733	8.733	(1.133)	65770	50.0000	51.64
\$ 14 Terphenyl-d14	244	12.319	12.319	(0.874)	484744	50.0000	52.54
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	173253	50.0000	48.86
16 Pyridine	79	1.956	1.956	(0.468)	285017	50.0000	48.51
23 Aniline	93	3.883	3.883	(0.928)	418141	50.0000	50.60
24 Phenol	94	3.831	3.831	(0.916)	349449	50.0000	50.30
26 Bis(2-chloroethyl) ether	93	3.935	3.935	(0.941)	265956	50.0000	50.06
27 2-Chlorophenol	128	3.987	3.987	(0.953)	275113	50.0000	49.98
28 1,3-Dichlorobenzene	146	4.142	4.142	(0.990)	300763	50.0000	49.53
29 1,4-Dichlorobenzene	146	4.194	4.194	(1.002)	309101	50.0000	50.25
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	189362	50.0000	50.15
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	289636	50.0000	49.86
32 2-Methylphenol	108	4.474	4.474	(1.069)	264933	50.0000	51.08
33 2,2'-oxybis(1-Chloropropane)	45	4.515	4.515	(1.079)	498423	50.0000	49.25
34 4-Methylphenol	108	4.629	4.629	(1.106)	276281	50.0000	50.04
36 Hexachloroethane	117	4.733	4.733	(1.131)	108140	50.0000	49.91
37 N-Nitrosodinpropylamine	70	4.671	4.671	(1.116)	191668	50.0000	49.32
42 Nitrobenzene	77	4.826	4.826	(0.863)	270426	50.0000	49.62
44 Isophorone	82	5.085	5.085	(0.909)	526287	50.0000	50.87
45 2-Nitrophenol	139	5.189	5.189	(0.928)	148045	50.0000	50.51
46 2,4-Dimethylphenol	107	5.230	5.230	(0.935)	280419	50.0000	51.04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.344	5.344	(0.956)	313689	50.0000	51.02
49 2,4-Dichlorophenol	162	5.448	5.448	(0.974)	203925	50.0000	50.92
50 Benzoic Acid	122	5.324	5.324	(0.952)	158116	50.0000	51.37
51 1,2,4-Trichlorobenzene	180	5.552	5.552	(0.993)	215109	50.0000	49.62
52 Naphthalene	128	5.624	5.624	(1.006)	843389	50.0000	49.45
54 4-Chloroaniline	127	5.707	5.707	(1.020)	335828	50.0000	49.91
57 Hexachlorobutadiene	225	5.842	5.842	(1.044)	102823	50.0000	50.05
60 4-Chloro-3-Methylphenol	107	6.277	6.277	(1.122)	237368	50.0000	51.00
63 2-Methylnaphthalene	142	6.432	6.432	(1.150)	527974	50.0000	50.71
66 Hexachlorocyclopentadiene	237	6.712	6.712	(0.871)	125216	50.0000	50.20
69 2,4,6-Trichlorophenol	196	6.806	6.806	(0.883)	127211	50.0000	51.84
70 2,4,5-Trichlorophenol	196	6.847	6.847	(0.888)	135669	50.0000	50.73
71 2-Chloronaphthalene	162	7.013	7.013	(0.910)	458237	50.0000	50.47
73 2-Nitroaniline	65	7.179	7.179	(0.931)	158033	50.0000	50.94
76 Dimethylphthalate	163	7.448	7.448	(0.966)	528938	50.0000	50.32
77 Acenaphthylene	152	7.521	7.521	(0.976)	816675	50.0000	51.24
79 2,6-Dinitrotoluene	165	7.448	7.448	(0.966)	126165	50.0000	53.66
80 3-Nitroaniline	138	7.676	7.676	(0.996)	160203	50.0000	51.40
81 Acenaphthene	153	7.749	7.749	(1.005)	494377	50.0000	48.72
82 2,4-Dinitrophenol	184	7.811	7.811	(1.013)	69420	50.0000	49.02
83 Dibenzofuran	168	7.946	7.946	(1.031)	677763	50.0000	50.61
84 4-Nitrophenol	109	7.883	7.883	(1.023)	72143	50.0000	51.88
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.039)	161748	50.0000	51.30
91 Fluorene	166	8.381	8.381	(1.087)	543257	50.0000	49.48
92 Diethylphthalate	149	8.339	8.339	(1.082)	552427	50.0000	50.14
93 4-Chlorophenyl-phenylether	204	8.401	8.401	(1.090)	223605	50.0000	49.61
94 4-Nitroaniline	138	8.464	8.464	(1.098)	162557	50.0000	52.79
97 4,6-Dinitro-2-methylphenol	198	8.526	8.526	(0.880)	82114	50.0000	45.93
98 N-Nitrosodiphenylamine	169	8.567	8.567	(0.884)	463528	58.6000	59.18
100 Azobenzene	77	8.598	8.598	(0.888)	565940	50.0000	51.20
101 4-Bromophenyl-phenylether	248	9.054	9.054	(0.935)	122045	50.0000	50.85
108 Hexachlorobenzene	284	9.251	9.251	(0.955)	130681	50.0000	50.36
110 Pentachlorophenol	266	9.510	9.510	(0.982)	85917	50.0000	53.46
114 Phenanthrene	178	9.718	9.718	(1.003)	786181	50.0000	50.19
115 Anthracene	178	9.780	9.780	(1.010)	800543	50.0000	50.79
118 Carbazole	167	10.039	10.039	(1.036)	733252	50.0000	49.78
120 Di-n-Butylphthalate	149	10.744	10.744	(1.109)	902234	50.0000	50.59
126 Fluoranthene	202	11.604	11.604	(1.198)	719593	50.0000	50.83
127 Benzidine	184	11.873	11.873	(0.842)	503481	50.0000	51.04
128 Pyrene	202	11.977	11.977	(0.849)	790039	50.0000	53.37
134 3,3'-dimethylbenzidine	212	13.179	13.179	(0.935)	443531	50.0000	52.41
136 Butylbenzylphthalate	149	13.293	13.293	(0.943)	396623	50.0000	51.78
138 Benzo(a)Anthracene	228	14.080	14.080	(0.999)	640983	50.0000	50.85
139 Chrysene	228	14.153	14.153	(1.004)	650159	50.0000	49.86
140 3,3'-Dichlorobenzidine	252	14.112	14.112	(1.001)	230984	50.0000	50.41
141 bis(2-ethylhexyl)Phthalate	149	14.412	14.412	(1.022)	536326	50.0000	50.65
142 Di-n-octylphthalate	149	15.459	15.459	(1.096)	827319	50.0000	48.58
144 Benzo(b)fluoranthene	252	15.915	15.915	(0.965)	505358	50.0000	46.04
145 Benzo(k)fluoranthene	252	15.946	15.946	(0.967)	697220	50.0000	54.17
147 Benzo(e)pyrene	252	16.329	16.329	(0.990)	548943	50.0000	50.44
148 Benzo(a)pyrene	252	16.412	16.412	(0.995)	620649	50.0000	51.66
151 Indeno(1,2,3-cd)pyrene	276	18.236	18.236	(1.106)	629844	50.0000	61.68
152 Dibenzo(a,h)anthracene	278	18.277	18.277	(1.108)	538847	50.0000	49.44
153 Benzo(g,h,i)perylene	276	18.702	18.702	(1.134)	572446	50.0000	49.20



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
=====	====	----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252				1202578	50.0000	50.42 (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: HSL0825.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\082510.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 20:01  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

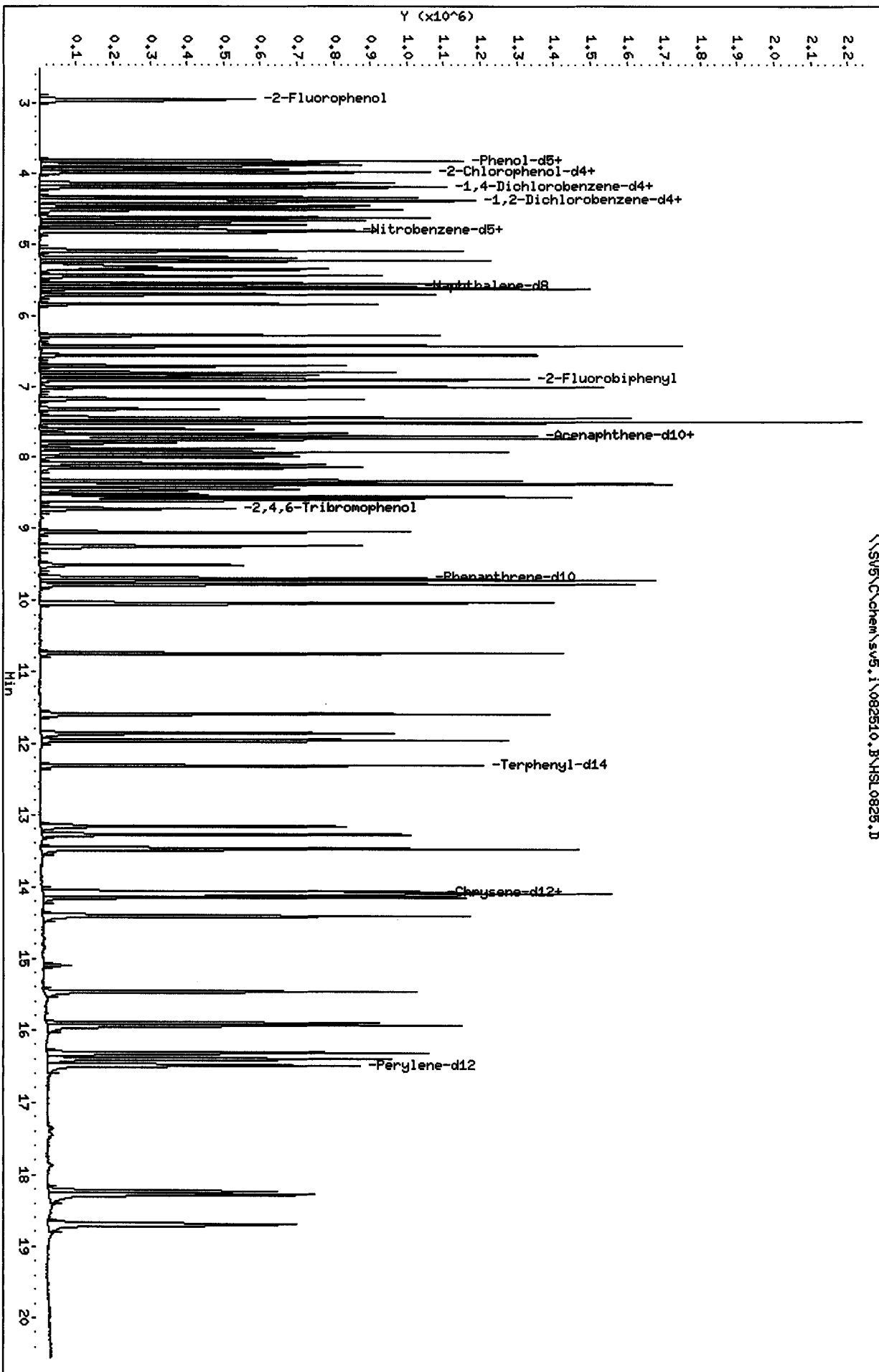
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	139326	23.96
2 Naphthalene-d8	494728	247364	989456	612767	23.86
3 Acenaphthene-d10	264752	132376	529504	325539	22.96
4 Phenanthrene-d10	415811	207906	831622	500311	20.32
5 Chrysene-d12	431516	215758	863032	476783	10.49
6 Perylene-d12	416460	208230	832920	462414	11.03

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.59	5.09	6.09	5.59	0.00
3 Acenaphthene-d10	7.71	7.21	8.21	7.71	0.00
4 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
5 Chrysene-d12	14.10	13.60	14.60	14.10	0.00
6 Perylene-d12	16.50	16.00	17.00	16.50	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.

Column phase:

\\SV5\Chem\sv5.i\082510.B\HSL0825.D



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.8763455	5.000	PASS
Benzidine	0.5226799	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	117026	7.1	20.5	PASS

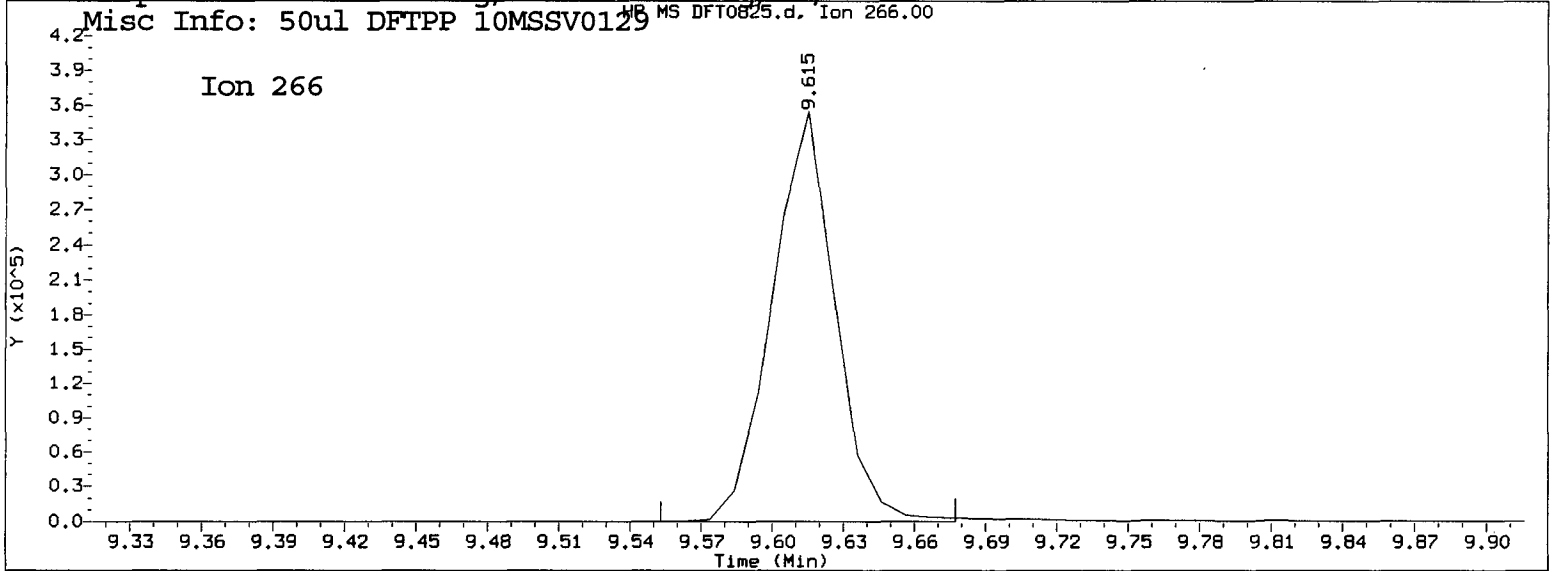
Sample //sv5/c/chem/sv5.i/082510.B/DFT0825.D/DFT0825.d

\*\*\*\*\*  
 \*\*\* PASSED \*\*\*  
 \*\*\*\*\*

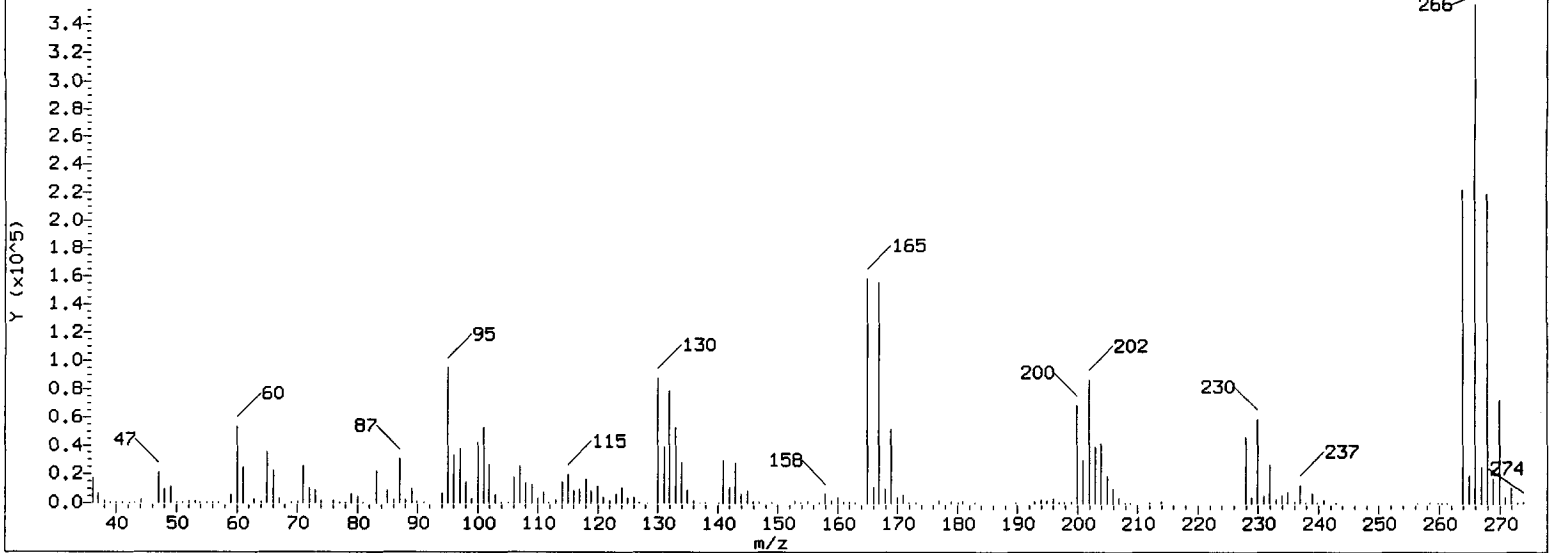
TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 08/25/2010 18:07

Datafile Analyzed: //sv5/c/chem/sv5.i/082510.B/DFT0825.D/DFT0825.d  
Method Used: \\sv5\c\chem\sv5.i\082510.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 25-AUG-2010 17:39 Operator: srs  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129 MS DFT0825.d, Ion 266.00



HP ChemStation MS DFT0825.d, Scan 245: 9.615 min.



Pentachlorophenol

=====  
Exp. RT = 9.771  
Found RT = 9.615

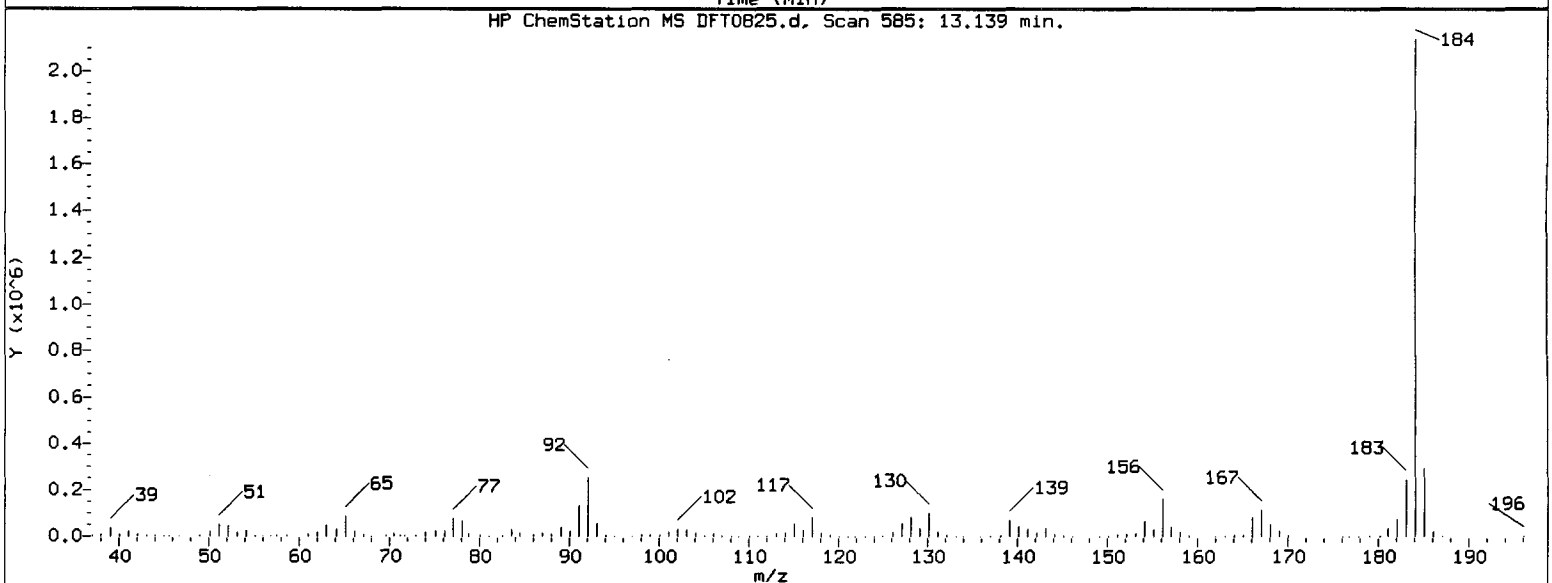
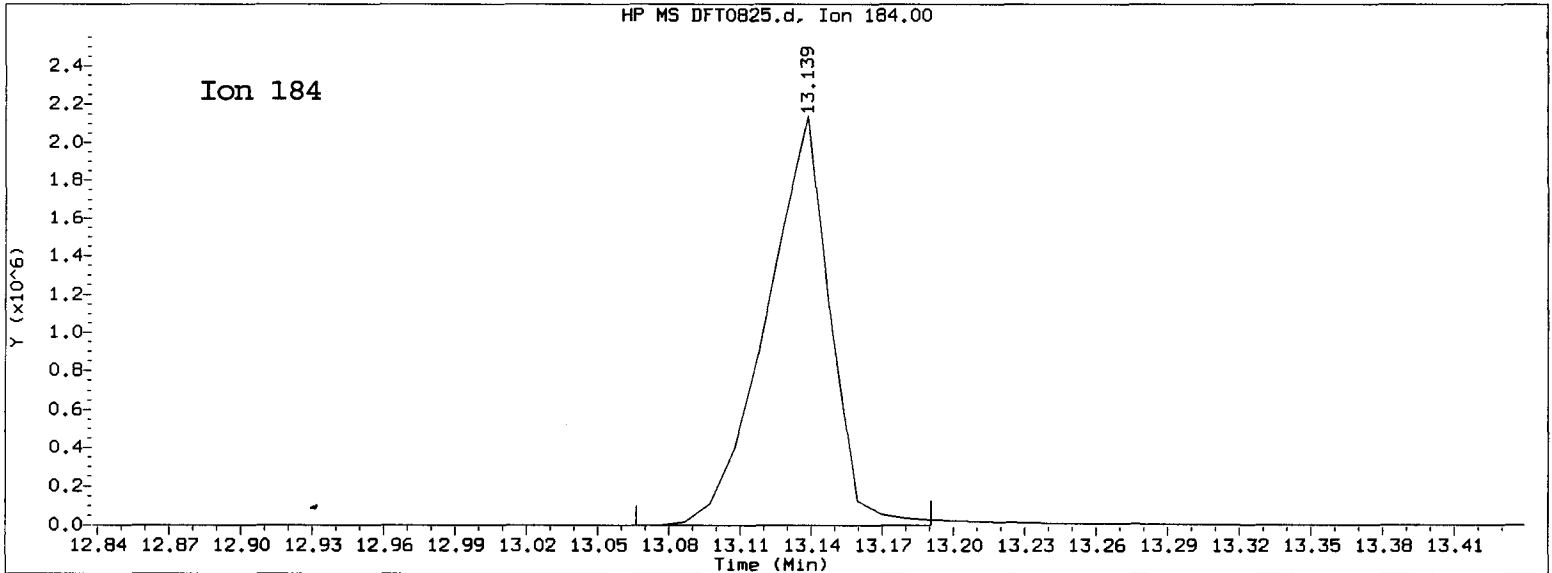
Time1 = 9.585274 Time2 = 9.61525 Time3 = 9.641519  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 0.876 Maximum Allowed = 5.0

Report Date: 08/25/2010 18:07

Datafile Analyzed: //sv5/c/chem/sv5.i/082510.B/DFT0825.D/DFT0825.d  
Method Used: \\sv5\c\chem\sv5.i\082510.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 25-AUG-2010 17:39 Operator: srs  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine

=====

Exp. RT = 13.315

Found RT = 13.139

Time1 = 13.101 Time2 = 13.13868 Time3 = 13.15838

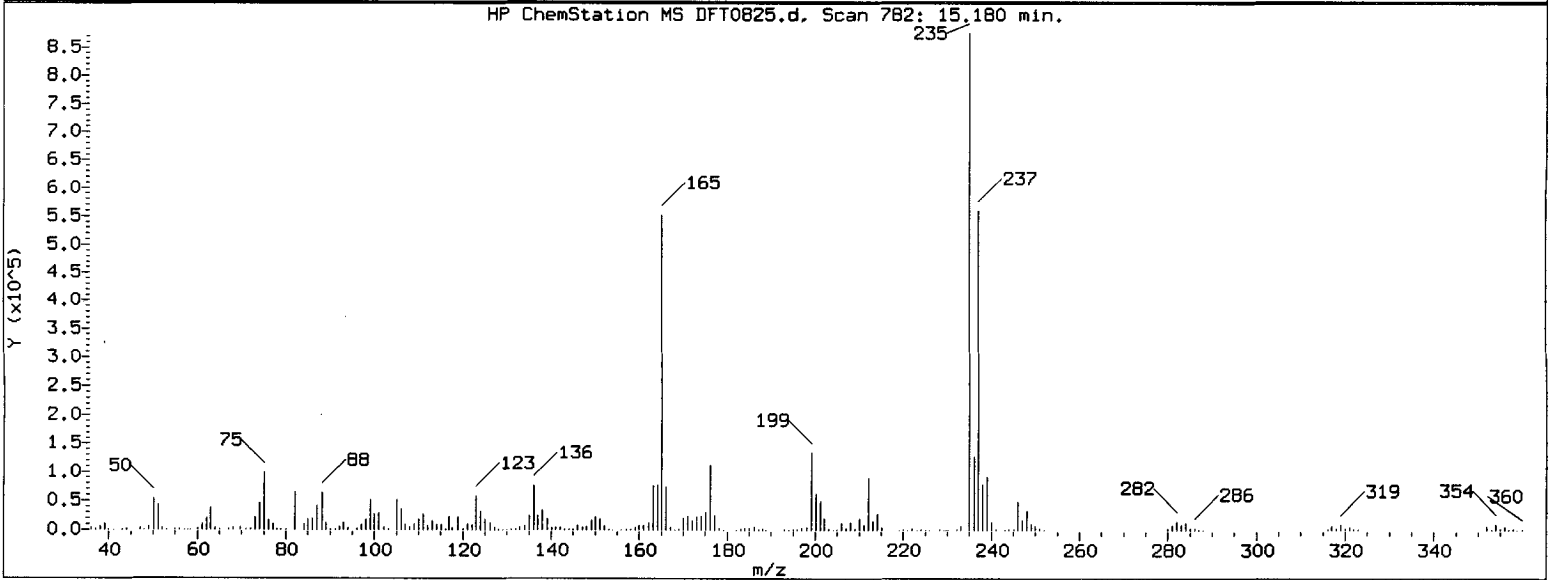
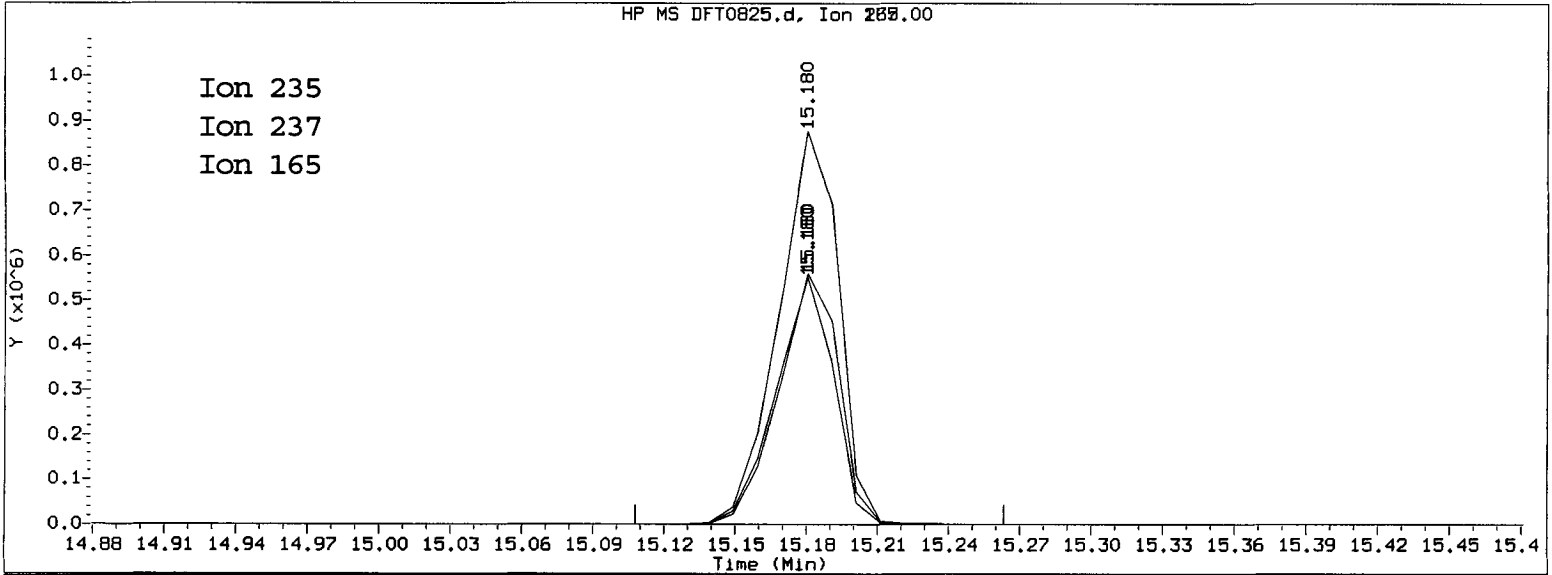
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.523 Maximum Allowed = 3.0

Report Date: 08/25/2010 18:07

Datafile Analyzed: //sv5/c/chem/sv5.i/082510.B/DFT0825.D/DFT0825.d  
Method Used: \\sv5\c\chem\sv5.i\082510.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 25-AUG-2010 17:39 Operator: srs  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDT

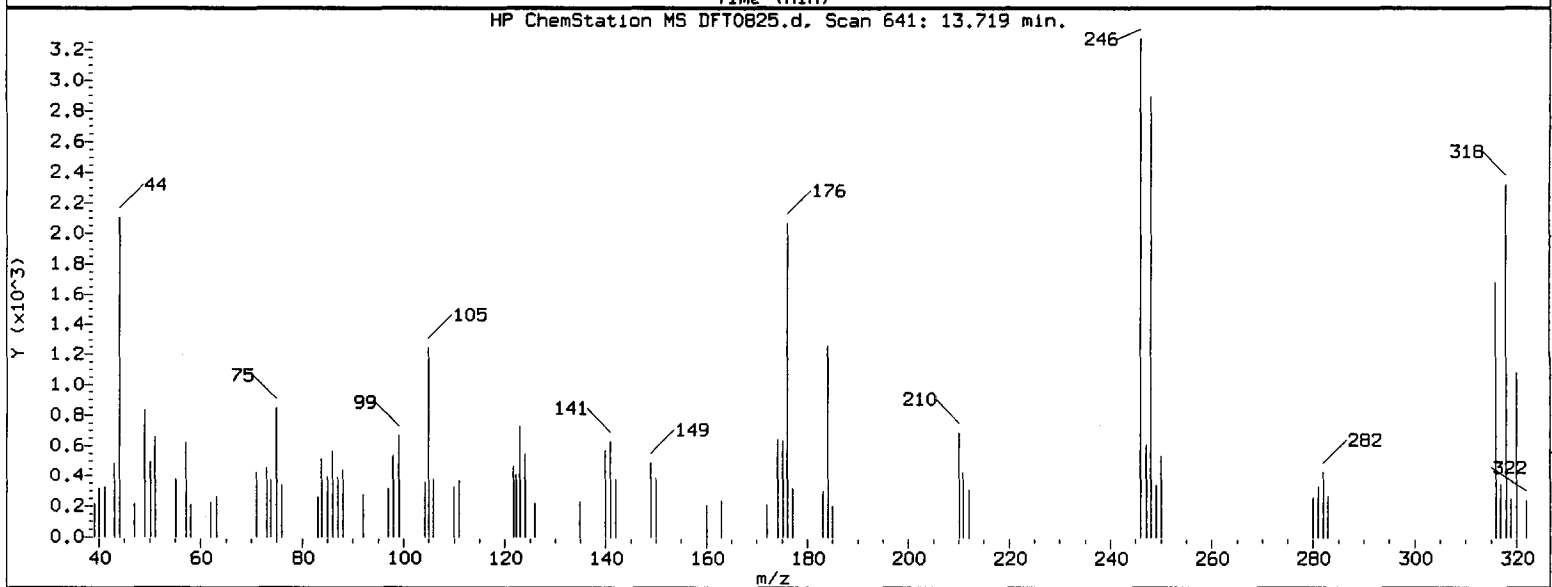
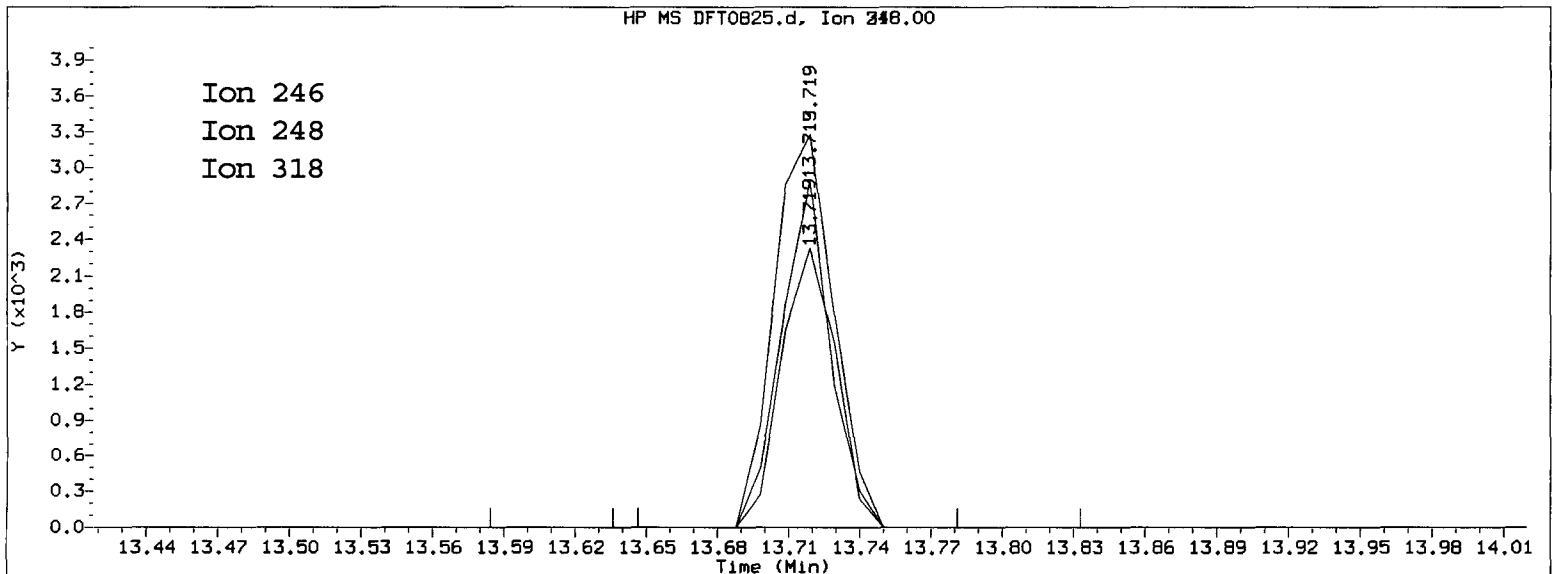
=====

Exp. RT = 15.180  
Found RT = 15.180

Mass	Area	Ratio
235	1536897	100.00
237	979218	63.71
165	930617	60.55

Report Date: 08/25/2010 18:07

Datafile Analyzed: //sv5/c/chem/sv5.i/082510.B/DFT0825.D/DFT0825.d  
Method Used: \\sv5\c\chem\sv5.i\082510.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 25-AUG-2010 17:39 Operator: srs  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDE

=====

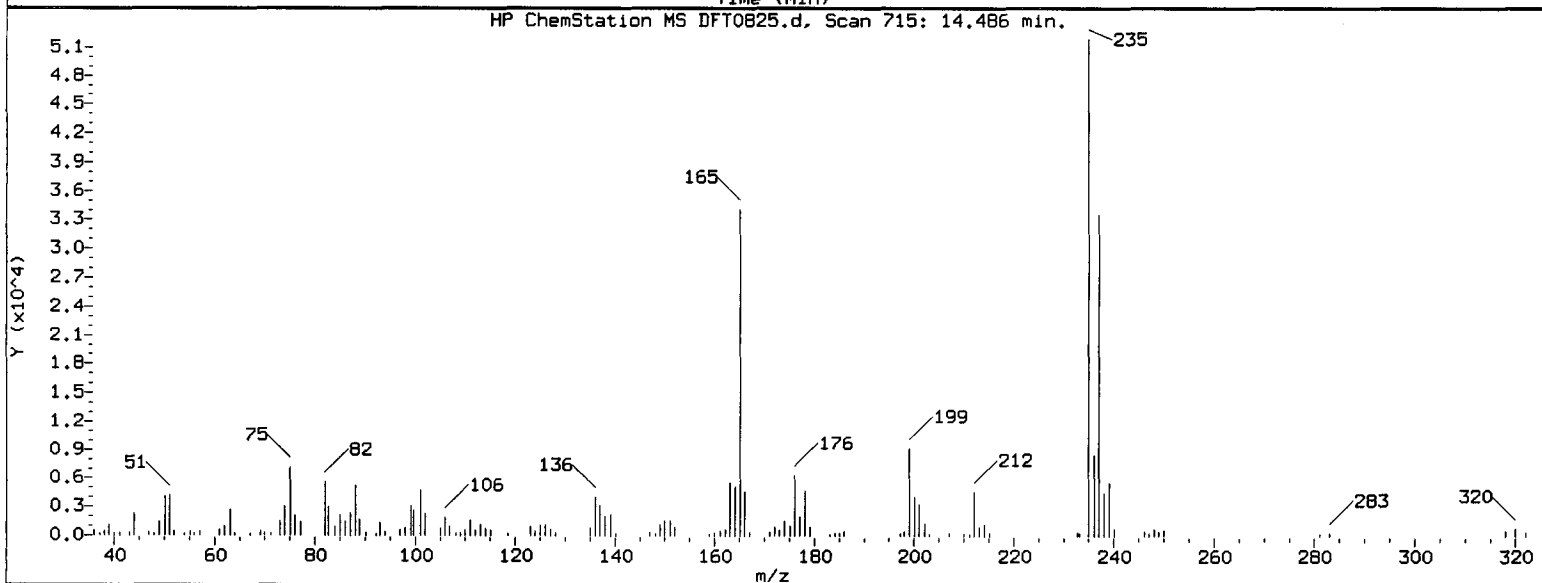
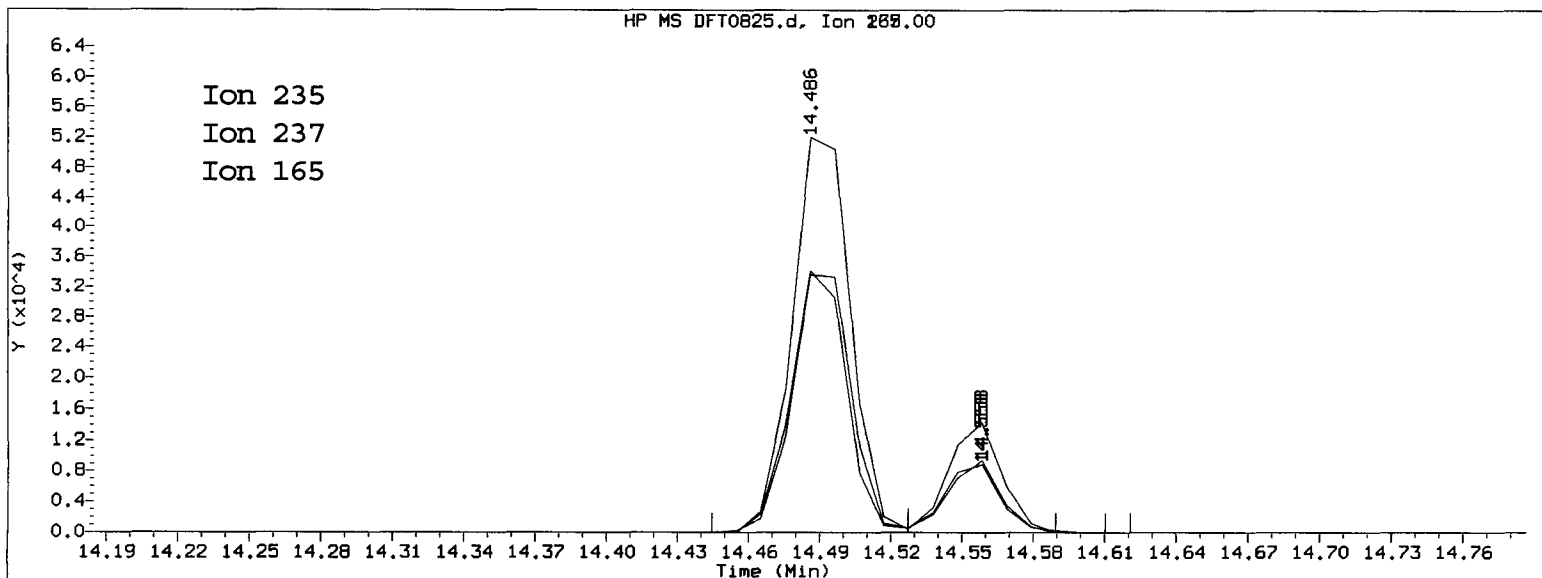
Exp. RT = 13.719  
Found RT = 13.719

Mass	Area	Ratio
246	5757	100.00
248	4211	73.15
318	3758	65.28



Report Date: 08/25/2010 18:07

Datafile Analyzed: //sv5/c/chem/sv5.i/082510.B/DFT0825.D/DFT0825.d  
Method Used: \\sv5\c\chem\sv5.i\082510.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 25-AUG-2010 17:39 Operator: srs  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



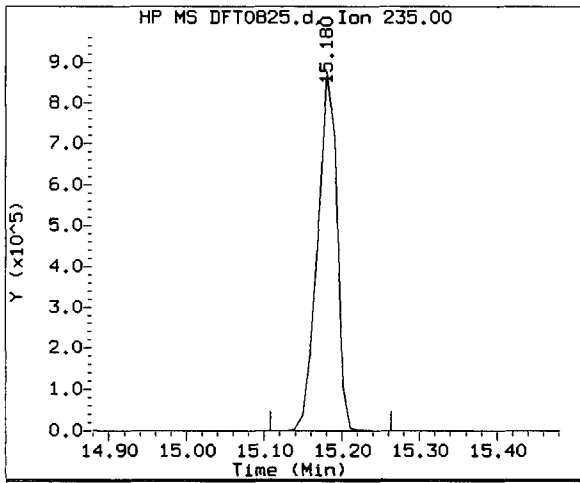
4,4'-DDD

=====

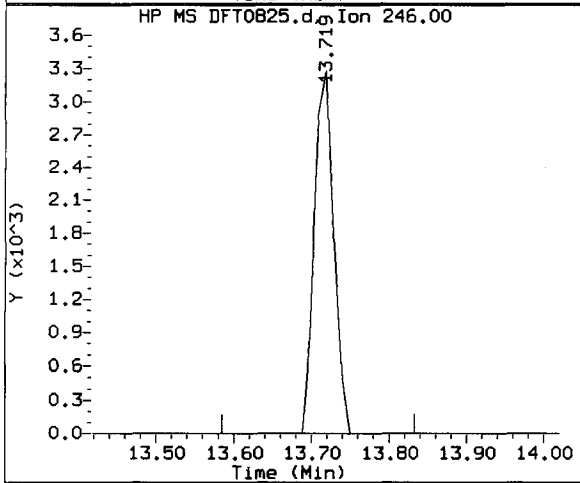
Exp. RT = 14.652

Found RT = 14.486

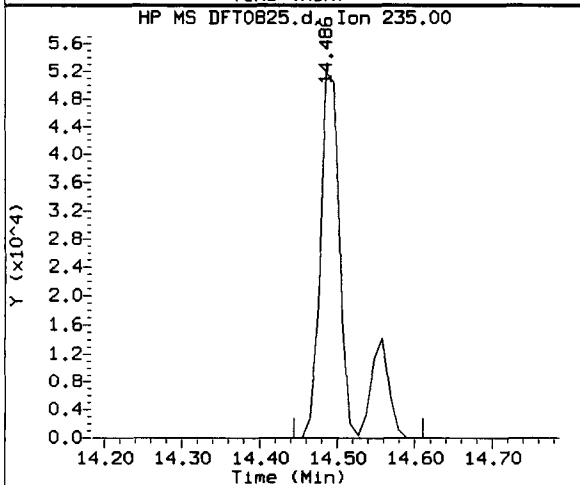
Mass	Area	Ratio
235	111269	100.00
237	14712	13.22
165	14940	13.43



Compound: 4,4'-DDT  
 Quant Mass: 235  
 RT: 15.180  
 Area: 1536897



Compound: 4,4'-DDE  
 Quant Mass: 246  
 RT: 13.719  
 Area: 5757



Compound: 4,4'-DDD  
 Quant Mass: 235  
 RT: 14.486  
 Area: 111269

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	117026	7.1	20.5	PASS

TestAmerica WestSacramento

Data file : \\sv5\c\chem\sv5.i\082510.B\DFT0825.D  
 Lab Smp Id: DFTPP 50ug/ml  
 Inj Date : 25-AUG-2010 17:39  
 Operator : srs  
 Smp Info : DFTPP 50ug/ml;  
 Misc Info : 50ul DFTPP 10MSSV0129  
 Comment :  
 Method : \\sv5\c\chem\sv5.i\082510.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: SACP333

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									
11.055	11.201	( 0.000)	198	332032			0.00- 100.00	100.00	
11.055	11.201	( 0.000)	51	228288			30.00- 80.00	68.75	
11.055	11.201	( 0.000)	68	3104			0.00- 2.00	1.66	
11.055	11.201	( 0.000)	69	186944			0.00- 0.00	56.30	
11.055	11.201	( 0.000)	70	945			0.00- 2.00	0.51	
11.055	11.201	( 0.000)	127	216320			25.00- 75.00	65.15	
11.055	11.201	( 0.000)	197	0	0.0	0.0	0.00- 1.00	0.00	
11.055	11.201	( 0.000)	199	22544			5.00- 9.00	6.79	
11.055	11.201	( 0.000)	275	64072			10.00- 30.00	19.30	
11.055	11.201	( 0.000)	365	6759			0.75- 0.00	2.04	
11.055	11.201	( 0.000)	441	27256			0.01- 99.99	70.13	
11.055	11.201	( 0.000)	442	198592			40.00- 110.00	59.81	
11.055	11.201	( 0.000)	443	38864			15.00- 24.00	19.57	

Date : 25-AUG-2010 17:39

Client ID:

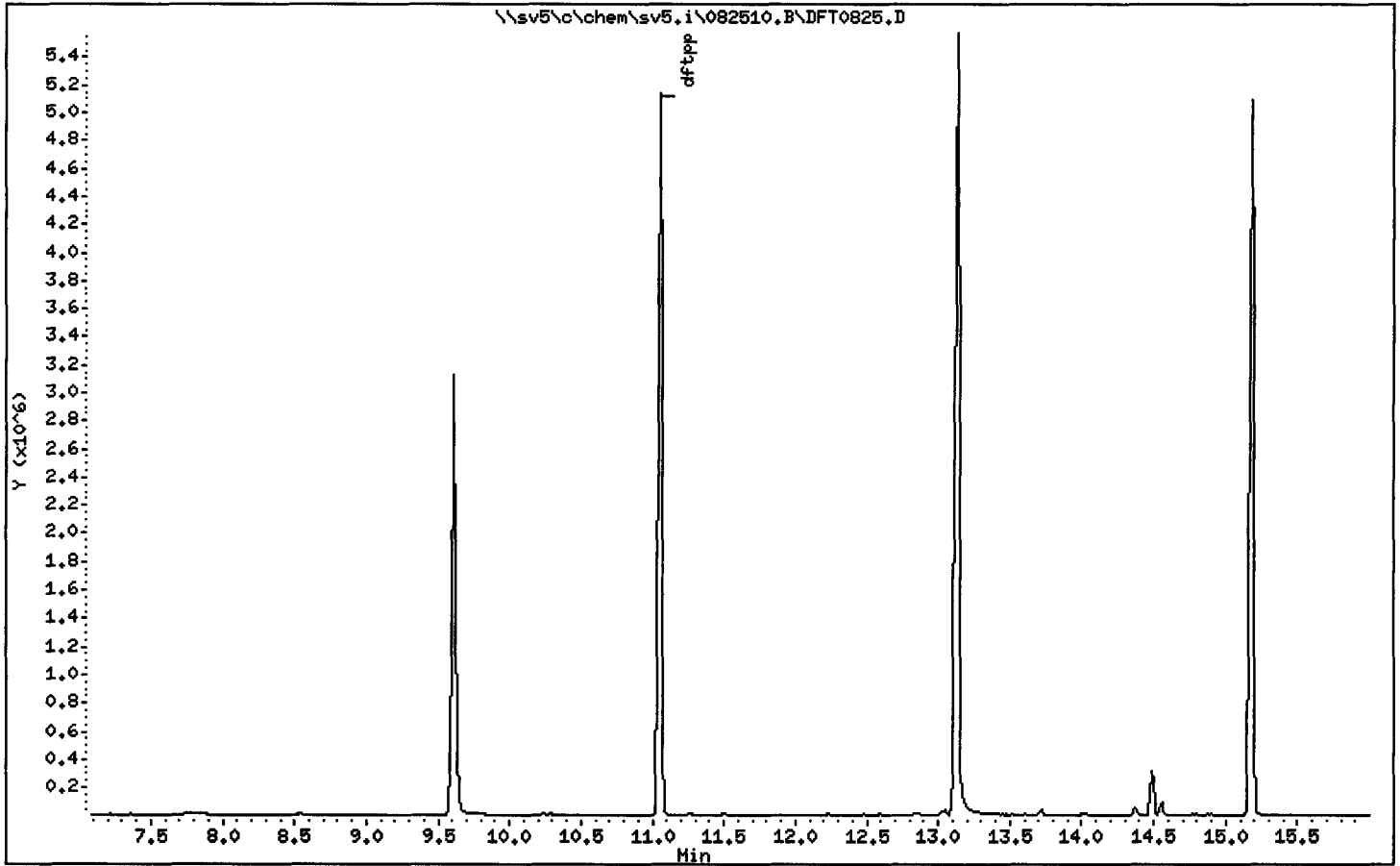
Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00



Date : 25-AUG-2010 17:39

Client ID:

Instrument: sv5.i

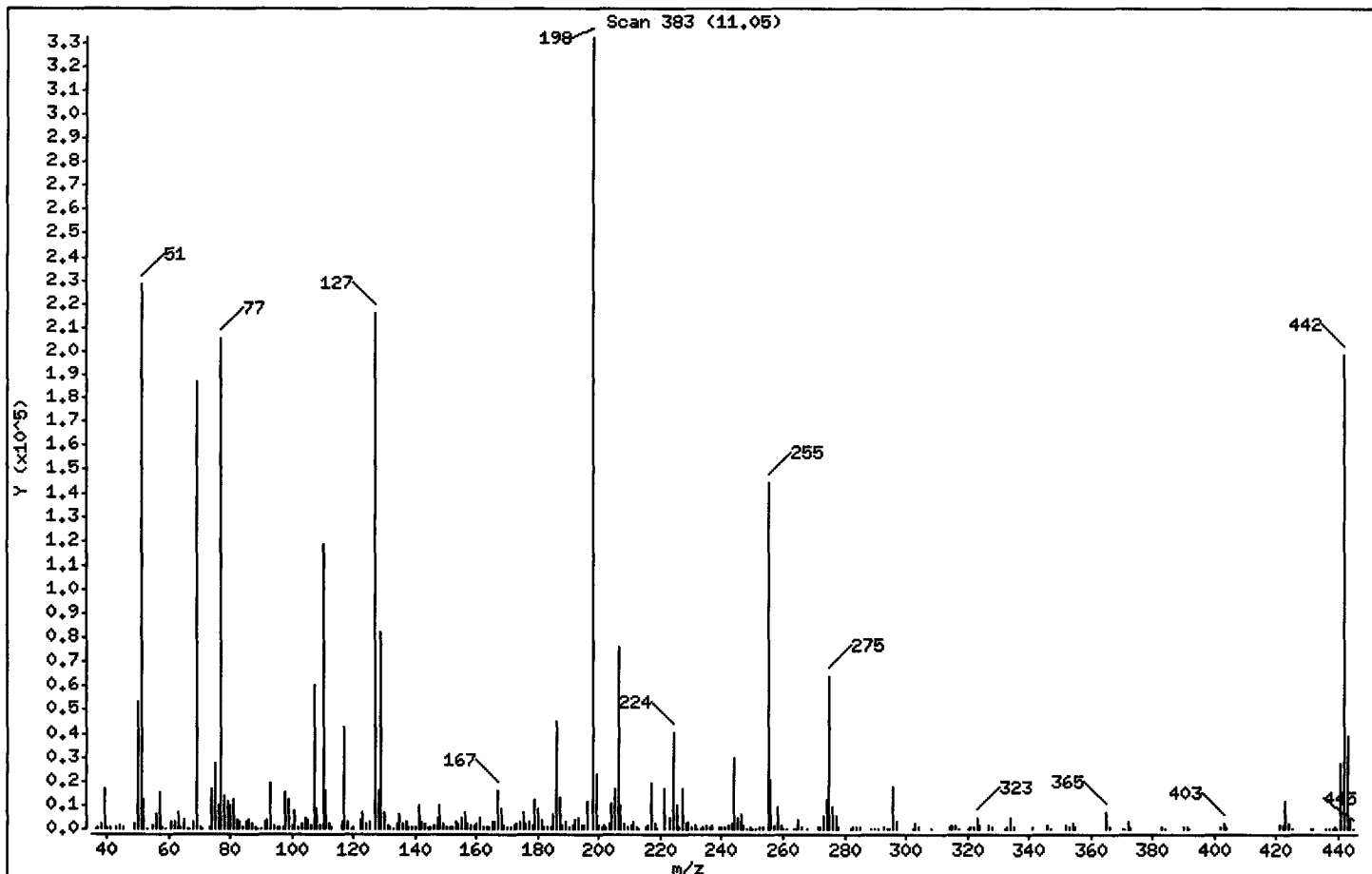
Sample Info: DFTPP 50ug/ml;

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	68.75
68	Less than 2.00% of mass 69	0.93 ( 1.66)
69	Mass 69 relative abundance	56.30
70	Less than 2.00% of mass 69	0.28 ( 0.51)
127	25.00 - 75.00% of mass 198	65.15
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.79
275	10.00 - 30.00% of mass 198	19.30
365	Greater than 0.75% of mass 198	2.04
441	Present, but less than mass 442	8.21
442	40.00 - 110.00% of mass 198	59.81
443	15.00 - 24.00% of mass 442	11.70 ( 19.57)

Date : 25-AUG-2010 17:39

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT0825.D  
 Spectrum: Scan 383 (11.05)  
 Location of Maximum: 198.00  
 Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	243	119.00	372	195.10	1314	277.00	5398
37.00	601	120.00	713	196.10	11595	278.10	1030
38.00	2636	122.00	3926	198.00	332032	282.10	342
39.10	17136	123.00	6758	199.00	22544	282.90	487
40.10	881	124.00	2551	200.00	1508	284.00	412
41.00	644	125.00	2820	200.90	833	285.10	930
43.10	449	127.00	216320	201.60	1449	288.70	224
44.10	1765	128.00	15822	202.10	540	290.10	220
45.00	574	129.00	82744	203.10	2150	291.00	212
49.10	2490	130.00	6677	204.10	10694	293.00	1064
50.00	53696	131.00	1387	205.10	17064	294.00	267
51.10	228288	132.00	665	206.10	76112	294.60	270
52.10	12529	132.90	249	207.10	10193	296.00	17768
53.00	366	134.10	2043	208.00	2537	297.00	3073
55.00	1244	135.00	6477	209.10	746	302.20	283
56.00	6042	136.00	2258	210.20	1422	303.10	2109
57.00	15332	137.00	3117	211.00	3042	304.10	521
57.90	859	137.80	905	212.10	727	308.10	202
59.00	275	139.00	469	212.90	332	314.10	878
61.00	2785	140.00	985	215.10	704	315.00	1630
62.00	2906	141.00	9650	216.00	1632	316.00	1375
63.00	6999	142.00	3301	217.00	19024	317.00	262
64.00	778	143.00	2460	218.00	2117	320.40	215
65.10	3940	144.10	767	219.10	296	321.00	629
66.00	331	145.10	618	221.10	16848	322.10	456
66.80	337	146.10	1684	223.00	4686	323.00	4840
68.00	3104	147.00	4948	224.10	40304	324.10	1461
69.00	186944	148.00	9830	225.10	10193	327.00	1167
70.00	945	149.00	2211	226.10	1139	328.00	529
71.00	377	150.00	493	227.00	16416	332.10	345
73.00	1061	151.20	1049	228.10	2352	333.00	416
74.00	16784	152.10	603	229.00	3207	334.00	4245
75.00	27720	153.00	3292	230.00	527	335.00	966
76.10	9597	154.00	2039	231.10	1878	340.90	720
77.10	204992	155.00	4604	232.00	350	346.00	1151

Date : 25-AUG-2010 17:39

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT0825.D  
 Spectrum: Scan 383 (11.05)  
 Location of Maximum: 198.00  
 Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	13457	156.00	7171	233.10	315	346.90	215
79.00	11144	157.00	2313	234.00	1090	352.00	1667
80.00	9855	158.00	1625	235.00	1404	353.00	1008
81.00	12167	159.00	1304	236.00	660	354.00	2003
82.10	3536	160.00	2585	237.00	1262	355.00	726
83.00	2746	161.10	4466	239.10	472	365.00	6759
84.00	839	162.00	1130	240.00	536	366.10	978
85.00	2842	163.10	720	241.10	870	370.10	251
86.00	3696	164.00	620	242.10	1875	371.00	304
87.00	1916	165.00	3300	243.00	2101	372.00	3067
88.00	669	166.00	2688	244.10	29816	373.00	772
89.00	336	167.00	15841	245.10	4492	383.00	1068
90.10	227	168.00	8225	246.00	6342	383.90	294
91.00	2702	169.00	1271	247.00	1287	390.00	668
92.00	3462	170.00	524	248.00	251	391.10	383
93.00	19400	171.00	651	249.00	934	392.00	206
94.00	1334	172.10	1357	249.70	212	402.00	923
95.20	482	173.10	1993	250.10	258	403.00	2020
96.10	1141	174.10	3346	250.90	288	404.00	833
97.20	628	175.10	6907	252.10	493	421.10	1449
98.00	15164	176.10	2069	253.20	1124	422.00	1242
99.00	11912	177.00	3396	255.00	144064	423.00	11341
100.00	1238	178.10	1341	256.00	20344	424.00	2579
101.00	7927	179.00	11907	257.00	1679	425.10	229
102.10	481	180.00	8552	258.00	8839	431.30	276
103.00	2543	181.00	3957	259.10	1254	431.70	205
104.00	4680	182.10	726	259.90	326	436.00	298
105.00	3962	183.10	651	261.00	322	437.30	376
106.00	1718	184.10	1121	263.30	210	438.10	370
107.00	60288	185.00	6314	264.10	214	438.70	493
108.00	8344	186.10	44752	265.00	3590	439.60	314
109.10	1862	187.00	12786	266.00	662	441.00	27256
110.00	117952	188.00	1463	267.90	248	442.00	198592
111.00	16219	189.00	2702	271.20	384	443.00	38864
112.00	2190	190.00	411	272.00	569	444.00	4506

Date : 25-AUG-2010 17:39

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: srs

Column phase:

Column diameter: 2.00

Data File: DFT0825.D  
Spectrum: Scan 383 (11.05)  
Location of Maximum: 198.00  
Number of points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.90	814	191.10	1330	273.00	5289	445.10	307
116.10	3304	192.00	3722	274.10	12082		
117.00	42424	193.00	4831	275.00	64072		
118.00	3394	194.10	1146	276.00	8915		



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\082510.B\S082502.D  
 Lab Smp Id: L518J1AA G0H230000- Client Smp ID: 0235315  
 Inj Date : 25-AUG-2010 18:52  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L518J1AA G0H230000-315B;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Meth Date : 26-Aug-2010 10:07 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 2  
 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	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	( NG)	( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	149607	40.0000	
* 2 Naphthalene-d8	136	5.593	5.593	(1.000)	664572	40.0000	
* 3 Acenaphthene-d10	164	7.707	7.707	(1.000)	350219	40.0000	
* 4 Phenanthrene-d10	188	9.686	9.686	(1.000)	535727	40.0000	
* 5 Chrysene-d12	240	14.101	14.101	(1.000)	447687	40.0000	
* 6 Perylene-d12	264	16.495	16.495	(1.000)	411472	40.0000	
\$ 7 2-Fluorophenol	112	2.950	2.950	(0.705)	390643	70.6078	70.61
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	563984	79.5842	79.58
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.381	(1.050)	153727	41.3366	41.34 (q)
\$ 11 Nitrobenzene-d5	82	4.805	4.805	(0.859)	226529	38.1935	38.19
\$ 12 2-Fluorobiphenyl	172	6.899	6.899	(0.895)	451060	40.6950	40.69
\$ 13 2,4,6-Tribromophenol	330	8.733	8.733	(1.133)	129409	94.4548	94.45
\$ 14 Terphenyl-d14	244	12.319	12.319	(0.874)	438534	50.6256	50.62
108 Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

*Handwritten signature/initials*

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S082502.D  
 Lab Smp Id: L518J1AA G0H230000-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M

Calibration Date: 25-AUG-2010  
 Calibration Time: 18:26  
 Client Smp ID: 0235315  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	149607	33.10
2 Naphthalene-d8	494728	247364	989456	664572	34.33
3 Acenaphthene-d10	264752	132376	529504	350219	32.28
4 Phenanthrene-d10	415811	207906	831622	535727	28.84
5 Chrysene-d12	431516	215758	863032	447687	3.75
6 Perylene-d12	416460	208230	832920	411472	-1.20

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.59	5.09	6.09	5.59	0.00
3 Acenaphthene-d10	7.71	7.21	8.21	7.71	0.00
4 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
5 Chrysene-d12	14.10	13.60	14.60	14.10	0.00
6 Perylene-d12	16.50	16.00	17.00	16.50	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 West Sacramento

RECOVERY REPORT

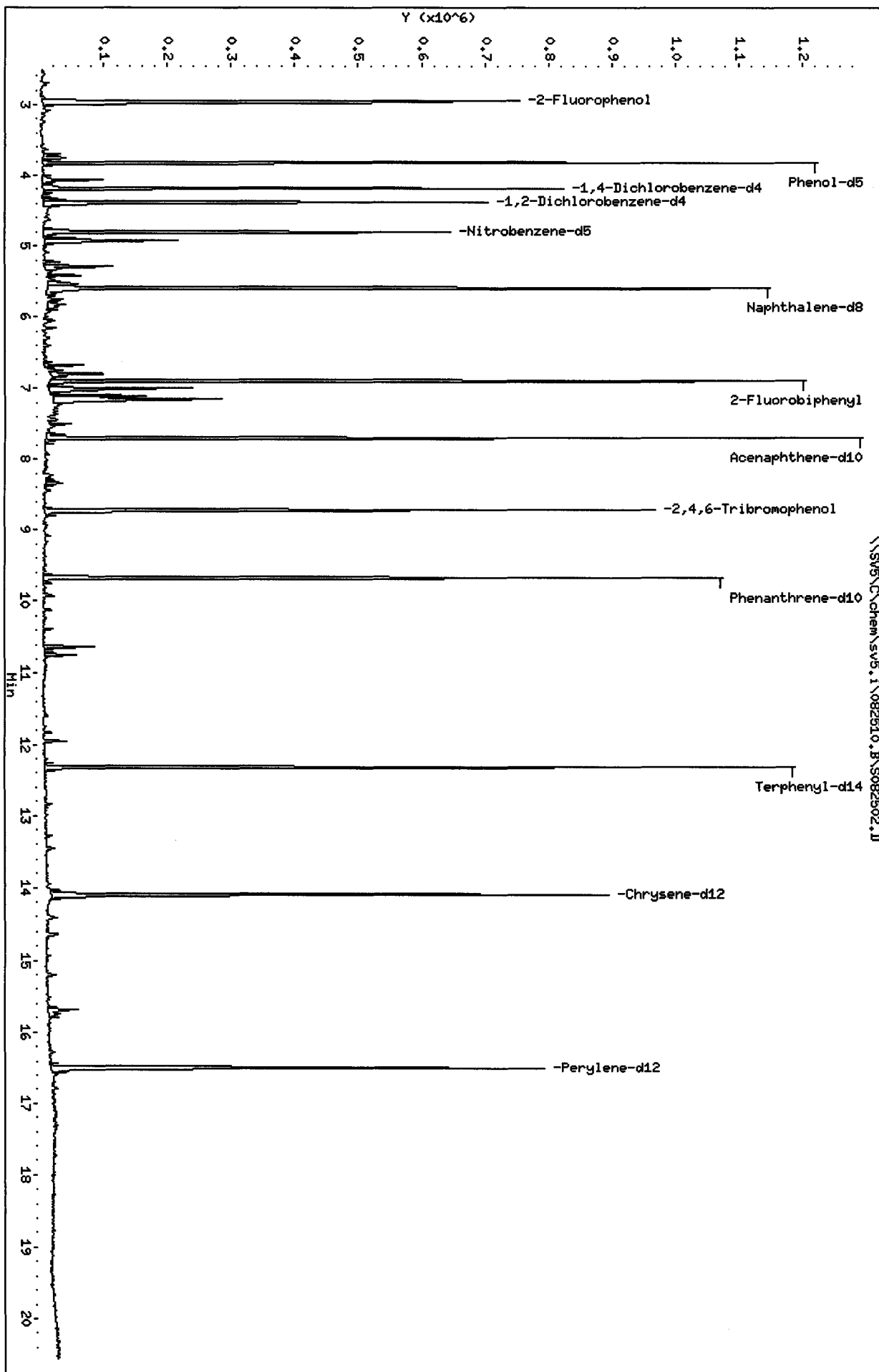
Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L518J1AA G0H230000- Client Smp ID: 0235315  
 Level: LOW Operator: srs  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: 10MSSV0342 Quant Type: ISTD  
 Sublist File: S11JZHCB.sub  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	70.61	70.61	41-105
\$ 8 Phenol-d5	100.0	79.58	79.58	43-122
\$ 10 1,2-Dichlorobenzen	50.00	41.34	82.67	60-120
\$ 11 Nitrobenzene-d5	50.00	38.19	76.39	46-118
\$ 12 2-Fluorobiphenyl	50.00	40.69	81.39	58-105
\$ 13 2,4,6-Tribromophen	100.0	94.45	94.45	61-118
\$ 14 Terphenyl-d14	50.00	50.62	101.25	69-110

Data File: \\SVS\chem\sv5.1\082510.B\5082502.D  
 Date : 25-AUG-2010 18:52  
 Client ID: 0235315  
 Sample Infol: L519J1M GOH230000-315B;0;11000;11000;15  
 Volume Injected (uL): 1.0  
 Column phase:

Instrument: sv5.i  
 Operator: srs  
 Column diameter: 2.00

\\SVS\chem\sv5.1\082510.B\5082502.D



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\082510.B\S082503.D  
 Lab Smp Id: L518J1AC G0H230000-  
 Inj Date : 25-AUG-2010 19:18  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L518J1AC G0H230000-315C;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\082510.B\8270F.m  
 Meth Date : 26-Aug-2010 10:07 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 3 QC Sample: LCS  
 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						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		4.184	4.184	(1.000)	140713	40.0000	(Q)	
* 2 Naphthalene-d8	136		5.604	5.593	(1.000)	612743	40.0000		
* 3 Acenaphthene-d10	164		7.707	7.707	(1.000)	332056	40.0000		
* 4 Phenanthrene-d10	188		9.687	9.686	(1.000)	510957	40.0000		
* 5 Chrysene-d12	240		14.112	14.101	(1.000)	455987	40.0000		
* 6 Perylene-d12	264		16.495	16.495	(1.000)	437373	40.0000		
\$ 7 2-Fluorophenol	112		2.961	2.950	(0.708)	409494	78.6933	78.69	
\$ 8 Phenol-d5	99		3.821	3.821	(0.913)	574633	86.2121	86.21	
\$ 10 1,2-Dichlorobenzene-d4	152		Compound Not Detected.						
\$ 11 Nitrobenzene-d5	82		4.806	4.805	(0.858)	236195	43.1917	43.19	
\$ 12 2-Fluorobiphenyl	172		6.909	6.899	(0.896)	479873	45.6627	45.66	
\$ 13 2,4,6-Tribromophenol	330		8.733	8.733	(1.133)	128537	98.9500	98.95	
\$ 14 Terphenyl-d14	244		12.319	12.319	(0.873)	416461	47.2023	47.20	
108 Hexachlorobenzene	284		9.251	9.251	(0.955)	231452	87.3450	87.34	

*SM/26/10*

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: S082503.D  
 Lab Smp Id: L518J1AC G0H230000-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 25-AUG-2010  
 Calibration Time: 18:26  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	140713	25.19
2 Naphthalene-d8	494728	247364	989456	612743	23.85
3 Acenaphthene-d10	264752	132376	529504	332056	25.42
4 Phenanthrene-d10	415811	207906	831622	510957	22.88
5 Chrysene-d12	431516	215758	863032	455987	5.67
6 Perylene-d12	416460	208230	832920	437373	5.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.01
2 Naphthalene-d8	5.59	5.09	6.09	5.60	0.19
3 Acenaphthene-d10	7.71	7.21	8.21	7.71	0.00
4 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
5 Chrysene-d12	14.10	13.60	14.60	14.11	0.08
6 Perylene-d12	16.50	16.00	17.00	16.50	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 West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L518J1AC G0H230000-  
 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\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	87.34	87.35	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	78.69	78.69	41-105
\$ 8 Phenol-d5	100.0	86.21	86.21	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	43.19	86.38	46-118
\$ 12 2-Fluorobiphenyl	50.00	45.66	91.33	58-105
\$ 13 2,4,6-Tribromophen	100.0	98.95	98.95	61-118
\$ 14 Terphenyl-d14	50.00	47.20	94.40	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\082510.B\S082503.D  
 Lab Smp Id: L518J1AC G0H230000-  
 Inj Date : 25-AUG-2010 19:18  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L518J1AC G0H230000-315C;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\082510.B\8270F.m  
 Meth Date : 26-Aug-2010 10:07 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 3 QC Sample: LCS  
 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 ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		4.184	4.184	(1.000)	140713	40.0000		(Q)
* 2 Naphthalene-d8	136		5.604	5.593	(1.000)	612743	40.0000		
* 3 Acenaphthene-d10	164		7.707	7.707	(1.000)	332056	40.0000		
* 4 Phenanthrene-d10	188		9.687	9.686	(1.000)	510957	40.0000		
* 5 Chrysene-d12	240		14.112	14.101	(1.000)	455987	40.0000		
* 6 Perylene-d12	264		16.495	16.495	(1.000)	437373	40.0000		
\$ 7 2-Fluorophenol	112		2.961	2.950	(0.708)	409494	78.6933	78.69	
\$ 8 Phenol-d5	99		3.821	3.821	(0.913)	574633	86.2121	86.21	
\$ 10 1,2-Dichlorobenzene-d4	152		4.402	4.381	(1.052)	151	0.04317	0.04317	(QR)
\$ 11 Nitrobenzene-d5	82		4.806	4.805	(0.858)	236195	43.1917	43.19	
\$ 12 2-Fluorobiphenyl	172		6.909	6.899	(0.896)	479873	45.6627	45.66	
\$ 13 2,4,6-Tribromophenol	330		8.733	8.733	(1.133)	128537	98.9500	98.95	
\$ 14 Terphenyl-d14	244		12.319	12.319	(0.873)	416461	47.2023	47.20	
108 Hexachlorobenzene	284		9.251	9.251	(0.955)	231452	87.3450	87.34	

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 R - Spike/Surrogate failed recovery limits.



Date : 25-AUG-2010 19:18

Client ID:

Instrument: sv5.i

Sample Info: L518J1AC G0H230000-315C;31;LCS;;1000;;1000;2

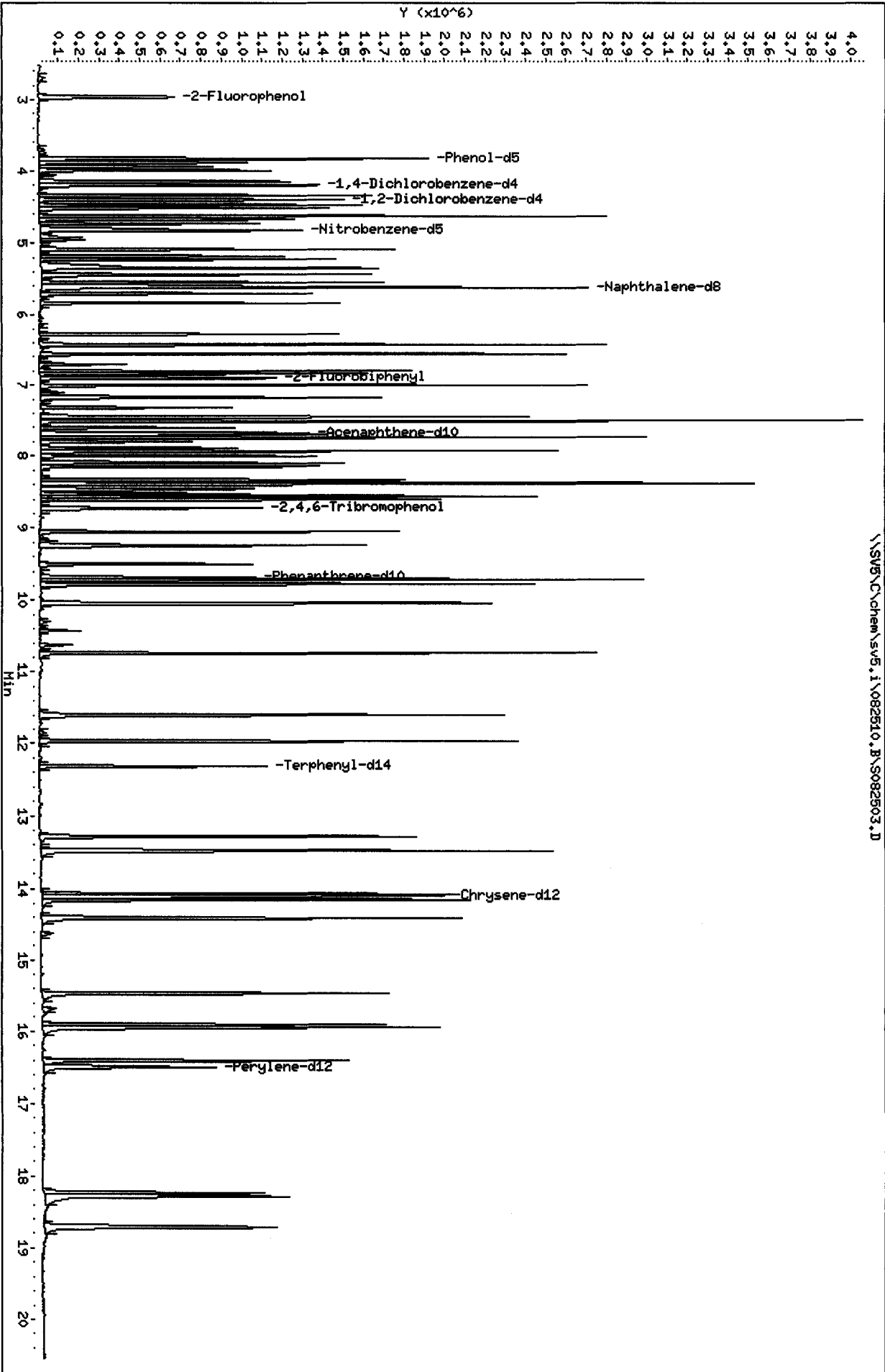
Volume Injected (uL): 1.0

Operator: srs

Column phase:

Column diameter: 2.00

\\SV5\C\chem\sv5.i\082510.B\5082503.D



TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\082510.B\S082504.D  
 Lab Smp Id: L518J1AD G0H230000-  
 Inj Date : 25-AUG-2010 19:44  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L518J1AD G0H230000-315L;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\082510.B\8270F.m  
 Meth Date : 26-Aug-2010 10:07 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 4 QC Sample: LCSD  
 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	CONCENTRATIONS					
			ON-COLUMN	FINAL				
MASS	RT	EXP RT	REL RT	RESPONSE	( NG)	( ug/L)		
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	128118	40.0000	(Q)	
* 2 Naphthalene-d8	136	5.604	5.593	(1.000)	561756	40.0000		
* 3 Acenaphthene-d10	164	7.707	7.707	(1.000)	290773	40.0000		
* 4 Phenanthrene-d10	188	9.687	9.686	(1.000)	444754	40.0000		
* 5 Chrysene-d12	240	14.101	14.101	(1.000)	385928	40.0000		
* 6 Perylene-d12	264	16.495	16.495	(1.000)	375665	40.0000		
\$ 7 2-Fluorophenol	112	2.961	2.950	(0.708)	380565	80.3236	80.32	
\$ 8 Phenol-d5	99	3.832	3.821	(0.916)	527159	86.8647	86.86	
\$ 10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
\$ 11 Nitrobenzene-d5	82	4.806	4.805	(0.858)	218784	43.6391	43.64	
\$ 12 2-Fluorobiphenyl	172	6.909	6.899	(0.896)	422540	45.9156	45.92	
\$ 13 2,4,6-Tribromophenol	330	8.733	8.733	(1.133)	115367	101.421	101.4	
\$ 14 Terphenyl-d14	244	12.319	12.319	(0.874)	362727	48.5753	48.58	
108 Hexachlorobenzene	284	9.251	9.251	(0.955)	208527	90.4074	90.41	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

*sms/261w*

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S082504.D  
 Lab Smp Id: L518J1AD G0H230000-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

Calibration Date: 25-AUG-2010  
 Calibration Time: 18:26  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	128118	13.98
2 Naphthalene-d8	494728	247364	989456	561756	13.55
3 Acenaphthene-d10	264752	132376	529504	290773	9.83
4 Phenanthrene-d10	415811	207906	831622	444754	6.96
5 Chrysene-d12	431516	215758	863032	385928	-10.56
6 Perylene-d12	416460	208230	832920	375665	-9.80

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.01
2 Naphthalene-d8	5.59	5.09	6.09	5.60	0.19
3 Acenaphthene-d10	7.71	7.21	8.21	7.71	0.00
4 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
5 Chrysene-d12	14.10	13.60	14.60	14.10	0.00
6 Perylene-d12	16.50	16.00	17.00	16.50	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 West Sacramento

RECOVERY REPORT

Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L518J1AD G0H230000-  
 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\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;S11JZHCB.SPK;1;;8270F.M

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
108 Hexachlorobenzene	100.0	90.41	90.41	70-100

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	80.32	80.32	41-105
\$ 8 Phenol-d5	100.0	86.86	86.86	43-122
\$ 10 1,2-Dichlorobenze	50.00	0.0000	*	60-120
\$ 11 Nitrobenzene-d5	50.00	43.64	87.28	46-118
\$ 12 2-Fluorobiphenyl	50.00	45.92	91.83	58-105
\$ 13 2,4,6-Tribromophen	100.0	101.4	101.42	61-118
\$ 14 Terphenyl-d14	50.00	48.58	97.15	69-110

TestAmerica West Sacramento

Method 8270C

Data file : \\SV5\C\chem\sv5.i\082510.B\S082504.D  
 Lab Smp Id: L518J1AD G0H230000-  
 Inj Date : 25-AUG-2010 19:44  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L518J1AD G0H230000-315L;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\082510.B\8270F.m  
 Meth Date : 26-Aug-2010 10:07 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 4 QC Sample: LCSD  
 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 ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4		152	4.184	4.184	(1.000)	128118	40.0000	(Q)
* 2 Naphthalene-d8		136	5.604	5.593	(1.000)	561756	40.0000	
* 3 Acenaphthene-d10		164	7.707	7.707	(1.000)	290773	40.0000	
* 4 Phenanthrene-d10		188	9.687	9.686	(1.000)	444754	40.0000	
* 5 Chrysene-d12		240	14.101	14.101	(1.000)	385928	40.0000	
* 6 Perylene-d12		264	16.495	16.495	(1.000)	375665	40.0000	
\$ 7 2-Fluorophenol		112	2.961	2.950	(0.708)	380565	80.3236	80.32
\$ 8 Phenol-d5		99	3.832	3.821	(0.916)	527159	86.8647	86.86
\$ 10 1,2-Dichlorobenzene-d4		152	4.184	4.381	(1.000)	128118	40.2288	40.23 (Q)
\$ 11 Nitrobenzene-d5		82	4.806	4.805	(0.858)	218784	43.6391	43.64
\$ 12 2-Fluorobiphenyl		172	6.909	6.899	(0.896)	422540	45.9156	45.92
\$ 13 2,4,6-Tribromophenol		330	8.733	8.733	(1.133)	115367	101.421	101.4
\$ 14 Terphenyl-d14		244	12.319	12.319	(0.874)	362727	48.5753	48.58
108 Hexachlorobenzene		284	9.251	9.251	(0.955)	208527	90.4074	90.41

QC Flag Legend

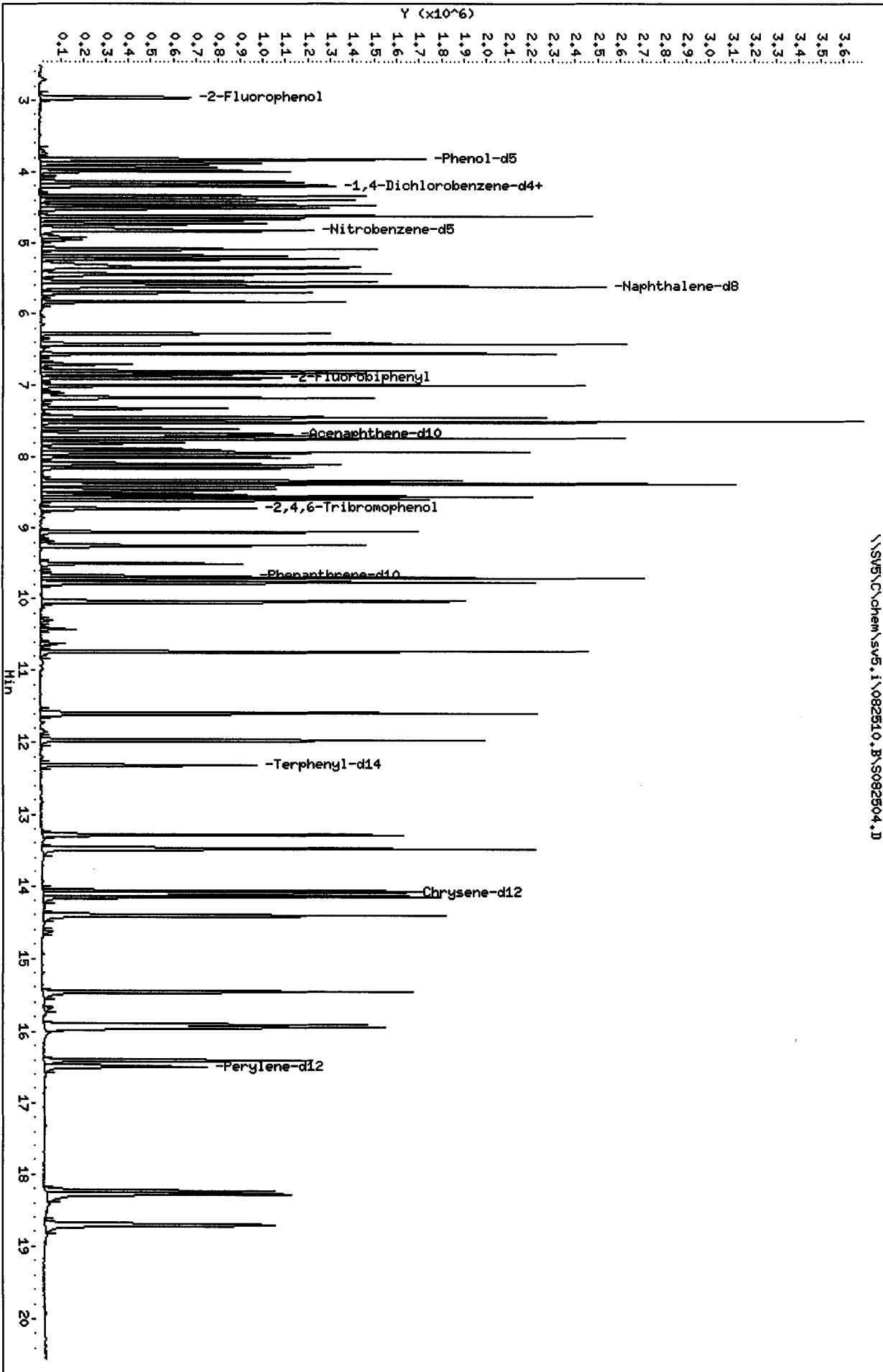
Q - Qualifier signal failed the ratio test.

Client ID:

Sample Info: L518J1AD G0H230000-315L;3;LCSD;11000;11000;2  
Volume Injected (uL): 1.0  
Column phase:

Instrument: sv5.i

Operator: srs  
Column diameter: 2.00



TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\082510.B\S082505.D  
 Lab Smp Id: L507J1AA G0H210471- Client Smp ID: 0235315  
 Inj Date : 25-AUG-2010 20:10  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L507J1AA G0H210471-5;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Meth Date : 26-Aug-2010 10:07 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.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 ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	128717	40.0000		
* 2 Naphthalene-d8	136	5.593	5.593	(1.000)	566609	40.0000		
* 3 Acenaphthene-d10	164	7.707	7.707	(1.000)	298423	40.0000		
* 4 Phenanthrene-d10	188	9.676	9.686	(1.000)	469513	40.0000		
* 5 Chrysene-d12	240	14.101	14.101	(1.000)	443754	40.0000		
* 6 Perylene-d12	264	16.495	16.495	(1.000)	460058	40.0000		
\$ 7 2-Fluorophenol	112	2.951	2.950	(0.705)	300022	63.0292	63.03	
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	464490	76.1820	76.18	
\$ 10 1,2-Dichlorobenzene-d4	152	4.381	4.381	(1.047)	75422	23.5721	23.57 (qR)	
\$ 11 Nitrobenzene-d5	82	4.806	4.805	(0.859)	169297	33.4791	33.48	
\$ 12 2-Fluorobiphenyl	172	6.899	6.899	(0.895)	361325	38.2571	38.26	
\$ 13 2,4,6-Tribromophenol	330	8.733	8.733	(1.133)	113164	96.9338	96.93	
\$ 14 Terphenyl-d14	244	12.319	12.319	(0.874)	411454	47.9204	47.92	
108 Hexachlorobenzene	284	Compound Not Detected.						

QC Flag Legend

R - Spike/Surrogate failed recovery limits.  
 q - Qualifier signal exceeded ratio warning limit.

*Handwritten signature/initials*

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S082505.D  
 Lab Smp Id: L507J1AA G0H210471-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M

Calibration Date: 25-AUG-2010  
 Calibration Time: 18:26  
 Client Smp ID: 0235315  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	128717	14.52
2 Naphthalene-d8	494728	247364	989456	566609	14.53
3 Acenaphthene-d10	264752	132376	529504	298423	12.72
4 Phenanthrene-d10	415811	207906	831622	469513	12.92
5 Chrysene-d12	431516	215758	863032	443754	2.84
6 Perylene-d12	416460	208230	832920	460058	10.47

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.59	5.09	6.09	5.59	0.00
3 Acenaphthene-d10	7.71	7.21	8.21	7.71	0.00
4 Phenanthrene-d10	9.69	9.19	10.19	9.68	-0.11
5 Chrysene-d12	14.10	13.60	14.60	14.10	0.00
6 Perylene-d12	16.50	16.00	17.00	16.50	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 West Sacramento

RECOVERY REPORT

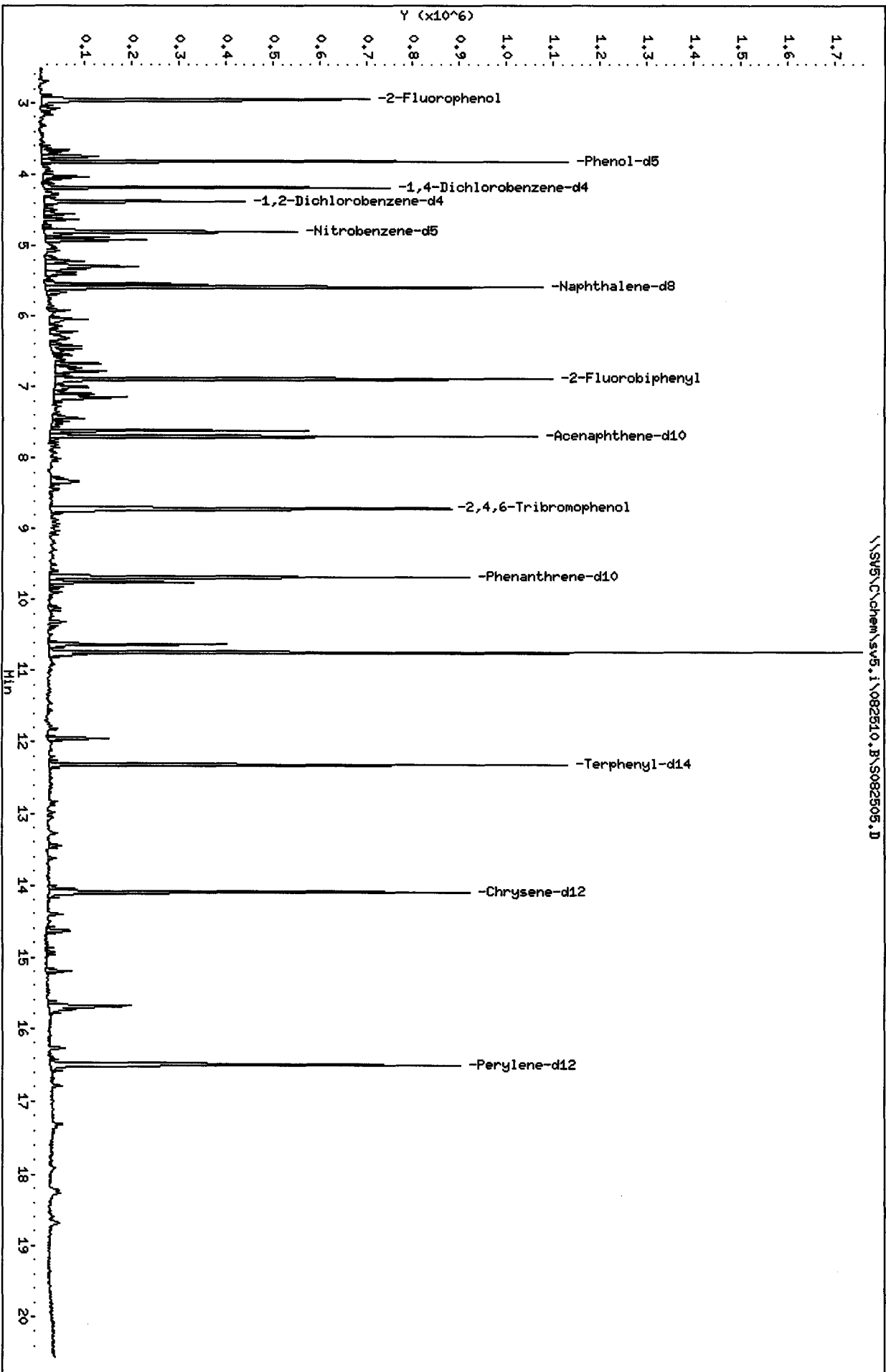
Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L507J1AA G0H210471- Client Smp ID: 0235315  
 Level: LOW Operator: srs  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	63.03	63.03	41-105
\$ 8 Phenol-d5	100.0	76.18	76.18	43-122
\$ 10 1,2-Dichlorobenzen	50.00	23.57	47.14*	60-120
\$ 11 Nitrobenzene-d5	50.00	33.48	66.96	46-118
\$ 12 2-Fluorobiphenyl	50.00	38.26	76.51	58-105
\$ 13 2,4,6-Tribromophen	100.0	96.93	96.93	61-118
\$ 14 Terphenyl-d14	50.00	47.92	95.84	69-110

Data File: \\SV5\C\chem\sv5.1\082510.B\082505.D  
 Date: 25-AUG-2010 20:10  
 Client ID: 0235315  
 Sample Info: L507J1A G0H210471-5;0;;1000;10005  
 Volume Injected (uL): 1.0  
 Column phase:

Instrument: sv5.i  
 Operator: srs  
 Column diameter: 2.00

\\SV5\C\chem\sv5.1\082510.B\082505.D



TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\082510.B\S082506.D  
 Lab Smp Id: L507K1AA GOH210471- Client Smp ID: 0235315  
 Inj Date : 25-AUG-2010 20:36  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L507K1AA GOH210471-6;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Meth Date : 26-Aug-2010 10:07 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.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 ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4	152		4.184	4.184	(1.000)	143711	40.0000		
* 2 Naphthalene-d8	136		5.593	5.593	(1.000)	628146	40.0000		
* 3 Acenaphthene-d10	164		7.707	7.707	(1.000)	340093	40.0000		
* 4 Phenanthrene-d10	188		9.687	9.686	(1.000)	524686	40.0000		
* 5 Chrysene-d12	240		14.101	14.101	(1.000)	488520	40.0000		
* 6 Perylene-d12	264		16.495	16.495	(1.000)	483847	40.0000		
\$ 7 2-Fluorophenol	112		2.951	2.950	(0.705)	333017	62.6615	62.66	
\$ 8 Phenol-d5	99		3.821	3.821	(0.913)	530288	77.8993	77.90	
\$ 10 1,2-Dichlorobenzene-d4	152		4.381	4.381	(1.047)	81053	22.6890	22.69 (qR)	
\$ 11 Nitrobenzene-d5	82		4.806	4.805	(0.859)	176996	31.5726	31.57	
\$ 12 2-Fluorobiphenyl	172		6.899	6.899	(0.895)	409634	38.0579	38.06	
\$ 13 2,4,6-Tribromophenol	330		8.733	8.733	(1.133)	131681	98.9748	98.97	
\$ 14 Terphenyl-d14	244		12.319	12.319	(0.874)	441717	46.7308	46.73	
108 Hexachlorobenzene	284		9.251	9.251	(0.955)	3374	1.23996	1.240 (aq)	

*SM/2/2/10*

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- R - Spike/Surrogate failed recovery limits.

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S082506.D  
 Lab Smp Id: L507K1AA G0H210471-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M

Calibration Date: 25-AUG-2010  
 Calibration Time: 18:26  
 Client Smp ID: 0235315  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	143711	27.86
2 Naphthalene-d8	494728	247364	989456	628146	26.97
3 Acenaphthene-d10	264752	132376	529504	340093	28.46
4 Phenanthrene-d10	415811	207906	831622	524686	26.18
5 Chrysene-d12	431516	215758	863032	488520	13.21
6 Perylene-d12	416460	208230	832920	483847	16.18

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.59	5.09	6.09	5.59	0.00
3 Acenaphthene-d10	7.71	7.21	8.21	7.71	0.00
4 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
5 Chrysene-d12	14.10	13.60	14.60	14.10	0.00
6 Perylene-d12	16.50	16.00	17.00	16.50	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 West Sacramento

RECOVERY REPORT

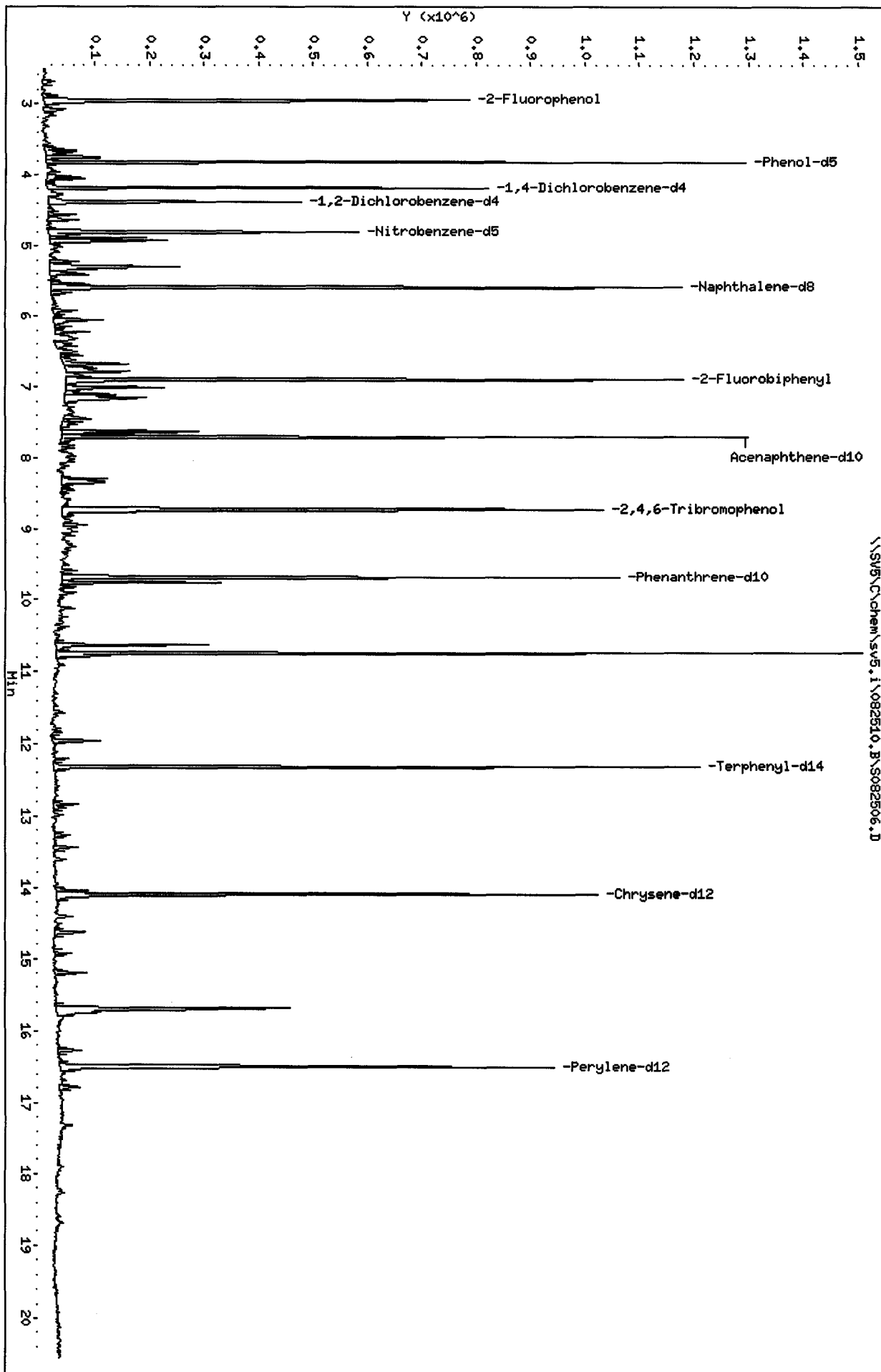
Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L507K1AA G0H210471- Client Smp ID: 0235315  
 Level: LOW Operator: srs  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	62.66	62.66	41-105
\$ 8 Phenol-d5	100.0	77.90	77.90	43-122
\$ 10 1,2-Dichlorobenzen	50.00	22.69	45.38*	60-120
\$ 11 Nitrobenzene-d5	50.00	31.57	63.15	46-118
\$ 12 2-Fluorobiphenyl	50.00	38.06	76.12	58-105
\$ 13 2,4,6-Tribromophen	100.0	98.97	98.97	61-118
\$ 14 Terphenyl-d14	50.00	46.73	93.46	69-110

Data File: \\SV5\chem\sv5.i\082510.B\S082506.D  
Date : 25-AUG-2010 20:36  
Client ID: 0235315  
Sample Info: L507K1AA G0H210471-6;0;11000;11000;5  
Volume Injected (uL): 1.0  
Column phase:

Instrument: sv5.i  
Operator: srs  
Column diameter: 2.00

\\SV5\chem\sv5.i\082510.B\S082506.D



Date : 25-AUG-2010 20:36

Client ID: 0235315

Instrument: sv5.i

Sample Info: L507K1AA G0H210471-6;0;;;1000;;1000;5

Volume Injected (uL): 1.0

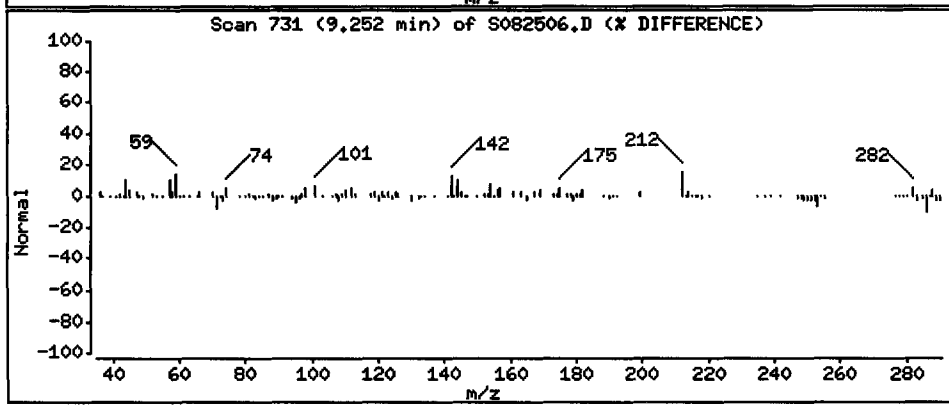
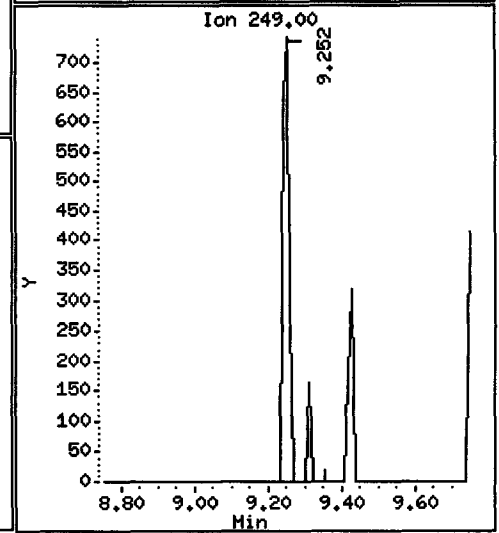
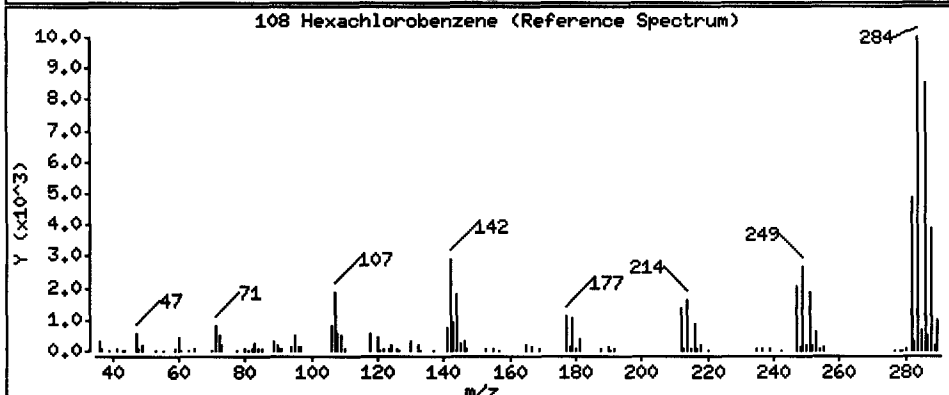
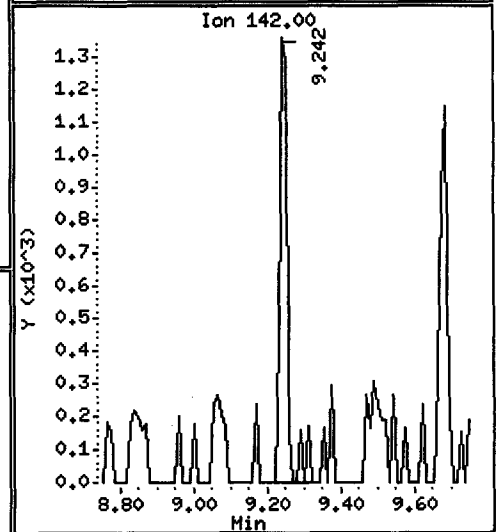
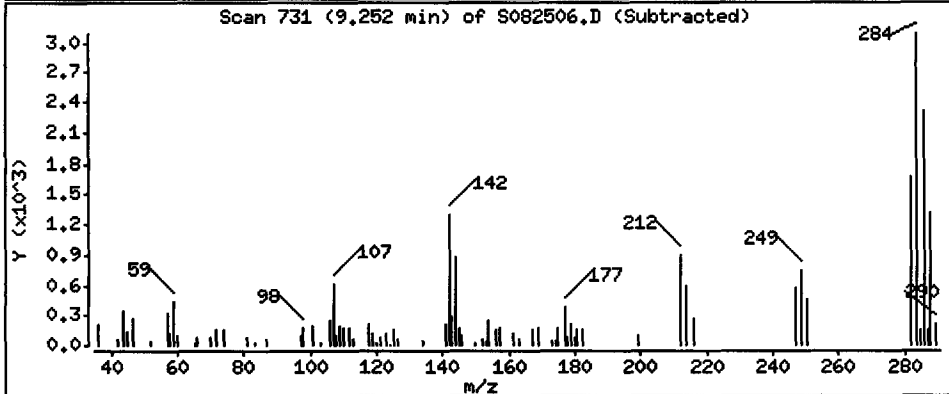
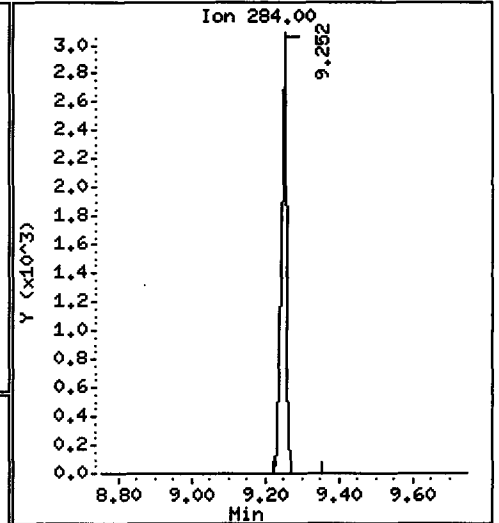
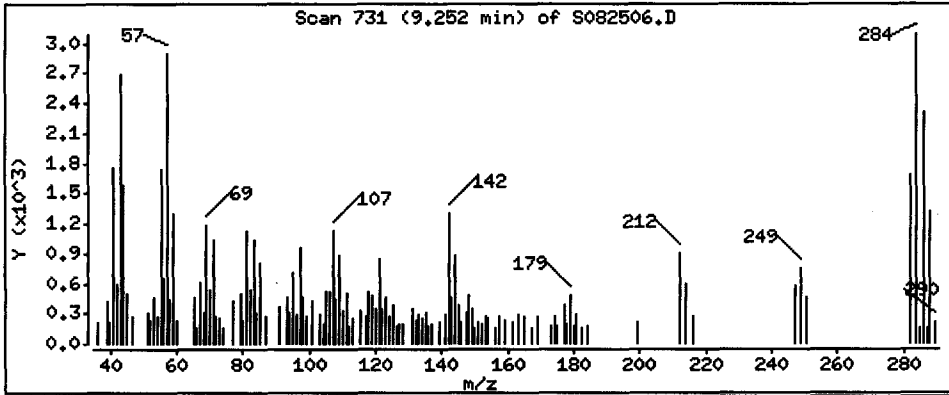
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 1.240 ug/L





TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\082510.B\S082507.D  
 Lab Smp Id: L507L1AA G0H210471- Client Smp ID: 0235315  
 Inj Date : 25-AUG-2010 21:02  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L507L1AA G0H210471-7;0;;;1000;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Meth Date : 26-Aug-2010 10:07 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 7  
 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 ( NG)	FINAL ( ug/L)
* 1 1,4-Dichlorobenzene-d4		152	4.184	4.184	(1.000)	158778	40.0000	
* 2 Naphthalene-d8		136	5.593	5.593	(1.000)	690550	40.0000	
* 3 Acenaphthene-d10		164	7.707	7.707	(1.000)	372228	40.0000	
* 4 Phenanthrene-d10		188	9.687	9.686	(1.000)	579346	40.0000	
* 5 Chrysene-d12		240	14.101	14.101	(1.000)	566954	40.0000	
* 6 Perylene-d12		264	16.495	16.495	(1.000)	571412	40.0000	
\$ 7 2-Fluorophenol		112	2.951	2.950	(0.705)	357128	60.8216	60.82
\$ 8 Phenol-d5		99	3.821	3.821	(0.913)	577721	76.8139	76.81
\$ 10 1,2-Dichlorobenzene-d4		152	4.381	4.381	(1.047)	101489	25.7138	25.71 (qR)
\$ 11 Nitrobenzene-d5		82	4.806	4.805	(0.859)	199733	32.4088	32.41
\$ 12 2-Fluorobiphenyl		172	6.899	6.899	(0.895)	419772	35.6329	35.63
\$ 13 2,4,6-Tribromophenol		330	8.733	8.733	(1.133)	139746	95.9687	95.97
\$ 14 Terphenyl-d14		244	12.319	12.319	(0.874)	474805	43.2822	43.28
108 Hexachlorobenzene		284	9.251	9.251	(0.955)	1118	0.37210	0.3721 (aq)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation (BLOQ).
- R - Spike/Surrogate failed recovery limits.

*SMG/2010*

QC Flag Legend

q - Qualifier signal exceeded ratio warning limit.

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S082507.D  
 Lab Smp Id: L507L1AA G0H210471-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs

Calibration Date: 25-AUG-2010  
 Calibration Time: 18:26  
 Client Smp ID: 0235315  
 Level: LOW  
 Sample Type: AIR

Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	158778	41.26
2 Naphthalene-d8	494728	247364	989456	690550	39.58
3 Acenaphthene-d10	264752	132376	529504	372228	40.59
4 Phenanthrene-d10	415811	207906	831622	579346	39.33
5 Chrysene-d12	431516	215758	863032	566954	31.39
6 Perylene-d12	416460	208230	832920	571412	37.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.59	5.09	6.09	5.59	0.00
3 Acenaphthene-d10	7.71	7.21	8.21	7.71	0.00
4 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
5 Chrysene-d12	14.10	13.60	14.60	14.10	0.00
6 Perylene-d12	16.50	16.00	17.00	16.50	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 West Sacramento

RECOVERY REPORT

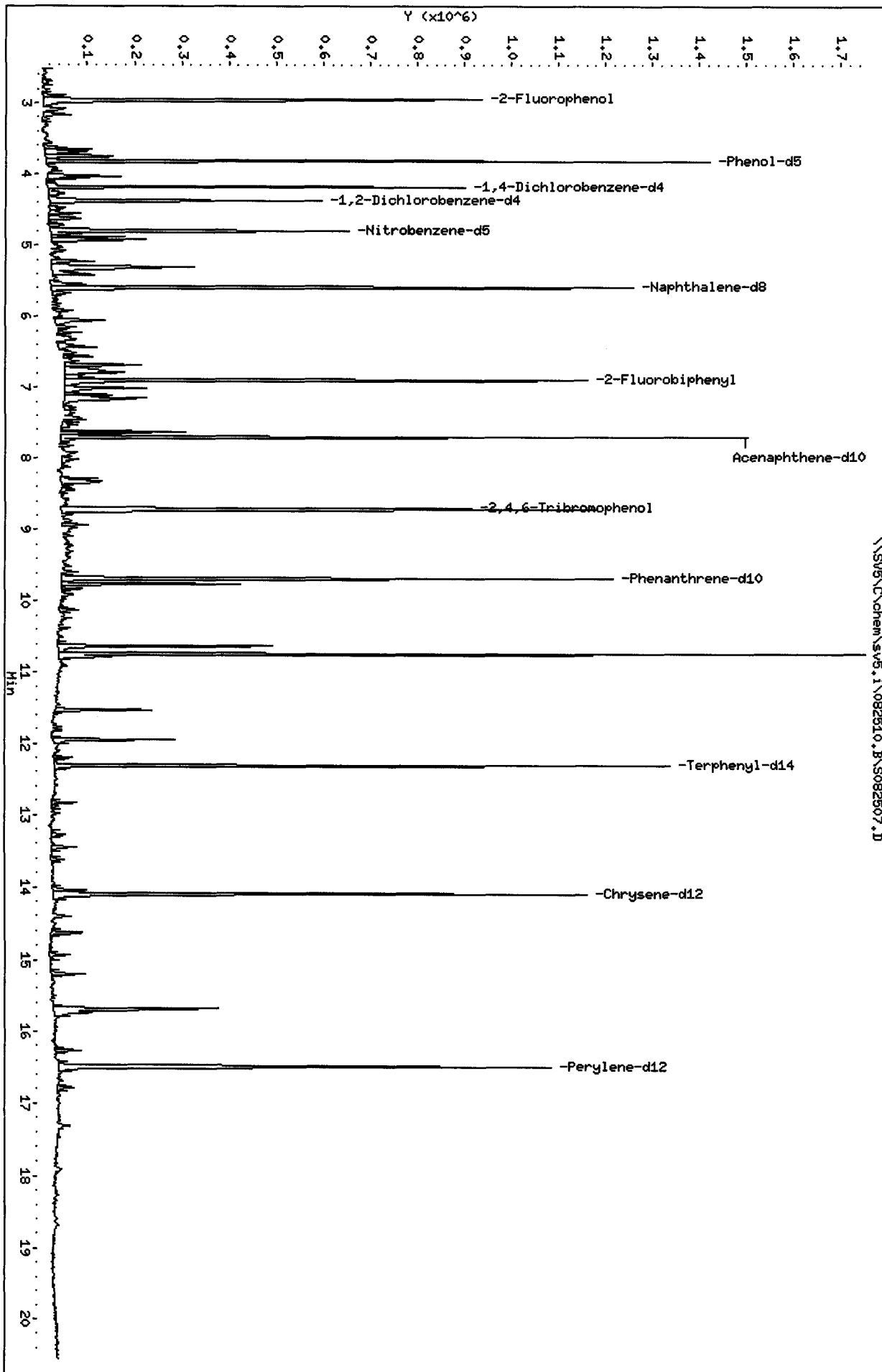
Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L507L1AA G0H210471- Client Smp ID: 0235315  
 Level: LOW Operator: srs  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	60.82	60.82	41-105
\$ 8 Phenol-d5	100.0	76.81	76.81	43-122
\$ 10 1,2-Dichlorobenzen	50.00	25.71	51.43*	60-120
\$ 11 Nitrobenzene-d5	50.00	32.41	64.82	46-118
\$ 12 2-Fluorobiphenyl	50.00	35.63	71.27	58-105
\$ 13 2,4,6-Tribromophen	100.0	95.97	95.97	61-118
\$ 14 Terphenyl-d14	50.00	43.28	86.56	69-110

Data File: \\SV5\Chem\sv5.i\082510.B\S082507.D  
 Date: 25-DEC-2010 21:02  
 Client ID: 0235315  
 Sample Info: L50714A G0H210471-7;0;1000;1000;5  
 Volume Injected (uL): 1.0  
 Column phase:

Instrument: sv5.i  
 Operator: srs  
 Column diameter: 2.00

\\SV5\Chem\sv5.i\082510.B\S082507.D



Date : 25-AUG-2010 21:02

Client ID: 0235315

Instrument: sv5.i

Sample Info: L507L1AA G0H210471-7;0;;;1000;;1000;5

Volume Injected (uL): 1.0

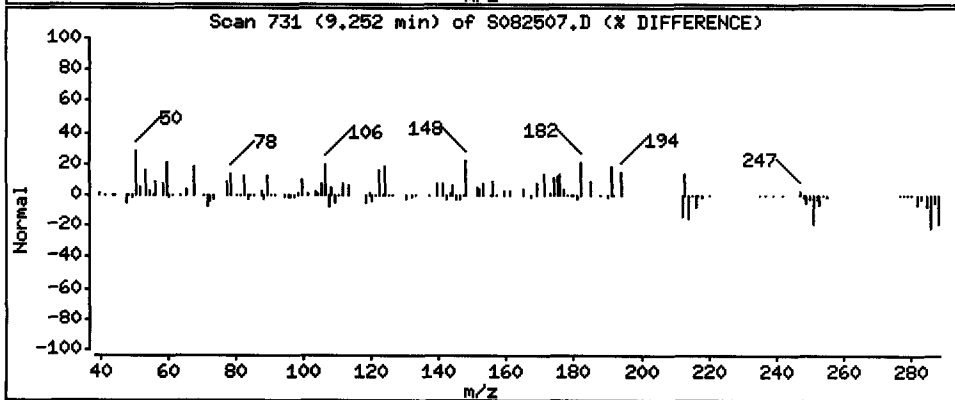
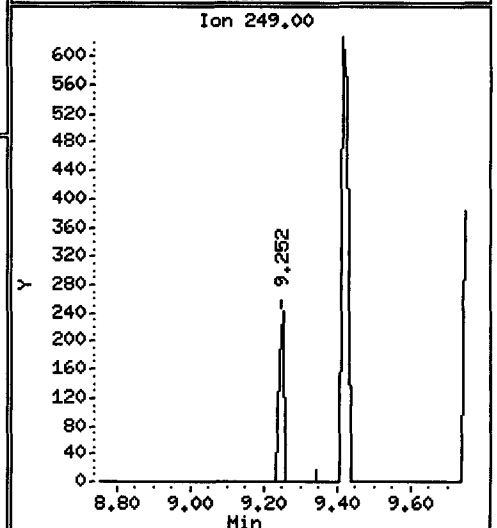
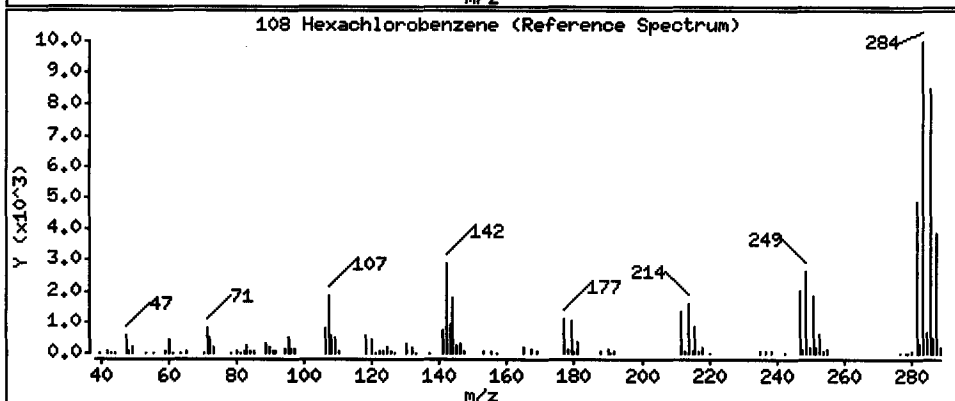
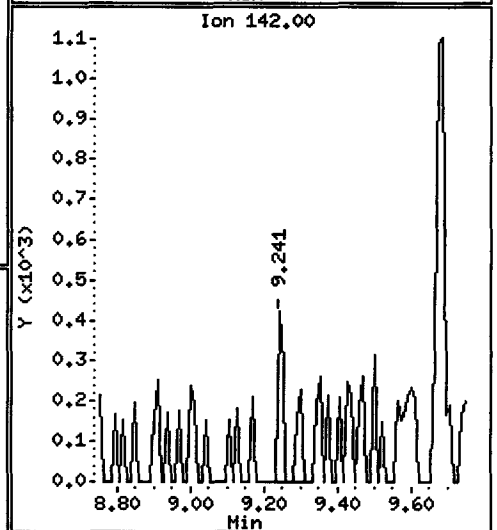
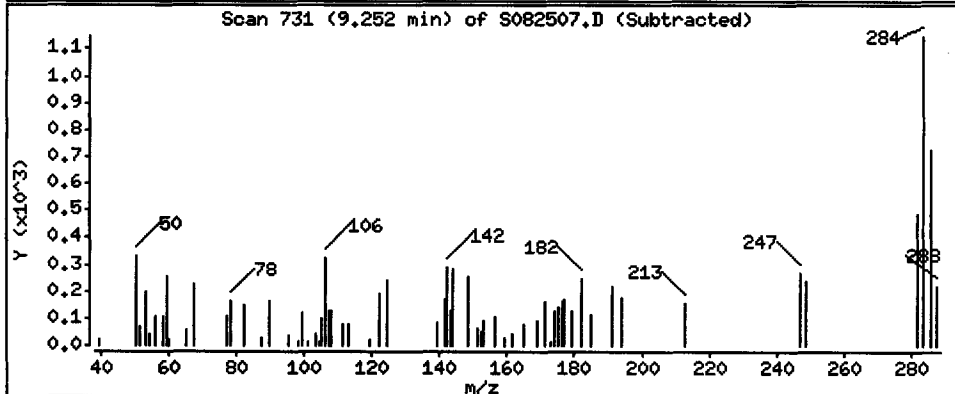
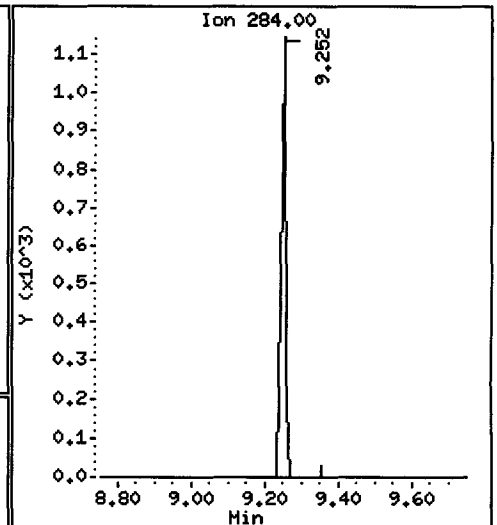
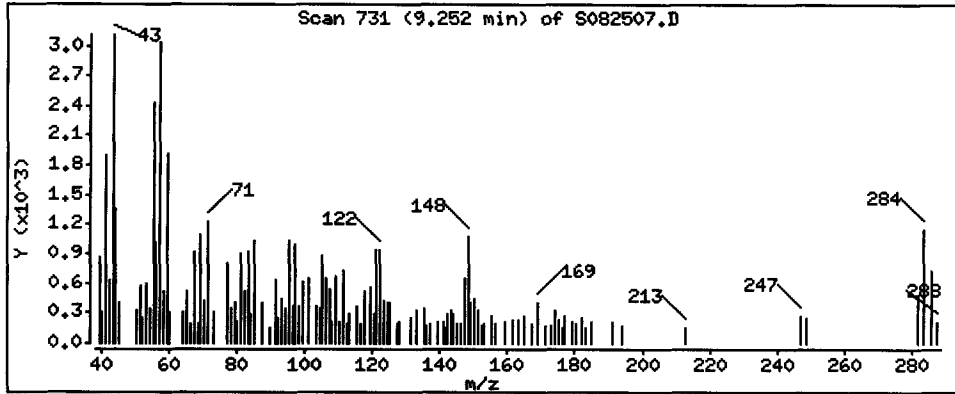
Operator: srs

Column phase:

Column diameter: 2.00

108 Hexachlorobenzene

Concentration: 0.3721 ug/L



TestAmerica West Sacramento

Method 8270C  
 Data file : \\SV5\C\chem\sv5.i\082510.B\S082508.D  
 Lab Smp Id: L507M1AA G0H210471- Client Smp ID: 0235315  
 Inj Date : 25-AUG-2010 21:28  
 Operator : srs Inst ID: sv5.i  
 Smp Info : L507M1AA G0H210471-8;0;;;1000;;;1000;5  
 Misc Info : 0;AIR;0;S11JZHCB.SUB;;;0;0235315;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Meth Date : 26-Aug-2010 10:07 semivoa Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 8  
 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	CONCENTRATIONS				
			ON-COLUMN	FINAL			
	MASS	RT	EXP RT	REL RT	RESPONSE	( NG)	( ug/L)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	135286	40.0000	
* 2 Naphthalene-d8	136	5.604	5.593	(1.000)	612119	40.0000	
* 3 Acenaphthene-d10	164	7.707	7.707	(1.000)	316156	40.0000	
* 4 Phenanthrene-d10	188	9.687	9.686	(1.000)	504135	40.0000	
* 5 Chrysene-d12	240	14.101	14.101	(1.000)	462616	40.0000	
* 6 Perylene-d12	264	16.495	16.495	(1.000)	463649	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.950	(0.708)	310516	62.0663	62.07
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	553849	86.4272	86.43
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.381	(1.050)	84317	25.0726	25.07 (qR)
\$ 11 Nitrobenzene-d5	82	4.806	4.805	(0.858)	175828	32.1855	32.18
\$ 12 2-Fluorobiphenyl	172	6.899	6.899	(0.895)	422049	42.1801	42.18
\$ 13 2,4,6-Tribromophenol	330	8.733	8.733	(1.133)	136120	110.057	110.0
\$ 14 Terphenyl-d14	244	12.319	12.319	(0.874)	471119	52.6322	52.63
108 Hexachlorobenzene	284	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.  
 q - Qualifier signal exceeded ratio warning limit.

*5/18/2010*

TestAmerica West Sacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: S082508.D  
 Lab Smp Id: L507M1AA G0H210471-  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: srs  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M

Calibration Date: 25-AUG-2010  
 Calibration Time: 18:26  
 Client Smp ID: 0235315  
 Level: LOW  
 Sample Type: AIR

Test Mode:  
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	135286	20.36
2 Naphthalene-d8	494728	247364	989456	612119	23.73
3 Acenaphthene-d10	264752	132376	529504	316156	19.42
4 Phenanthrene-d10	415811	207906	831622	504135	21.24
5 Chrysene-d12	431516	215758	863032	462616	7.21
6 Perylene-d12	416460	208230	832920	463649	11.33

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.59	5.09	6.09	5.60	0.19
3 Acenaphthene-d10	7.71	7.21	8.21	7.71	0.00
4 Phenanthrene-d10	9.69	9.19	10.19	9.69	0.00
5 Chrysene-d12	14.10	13.60	14.60	14.10	0.00
6 Perylene-d12	16.50	16.00	17.00	16.50	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 West Sacramento

RECOVERY REPORT

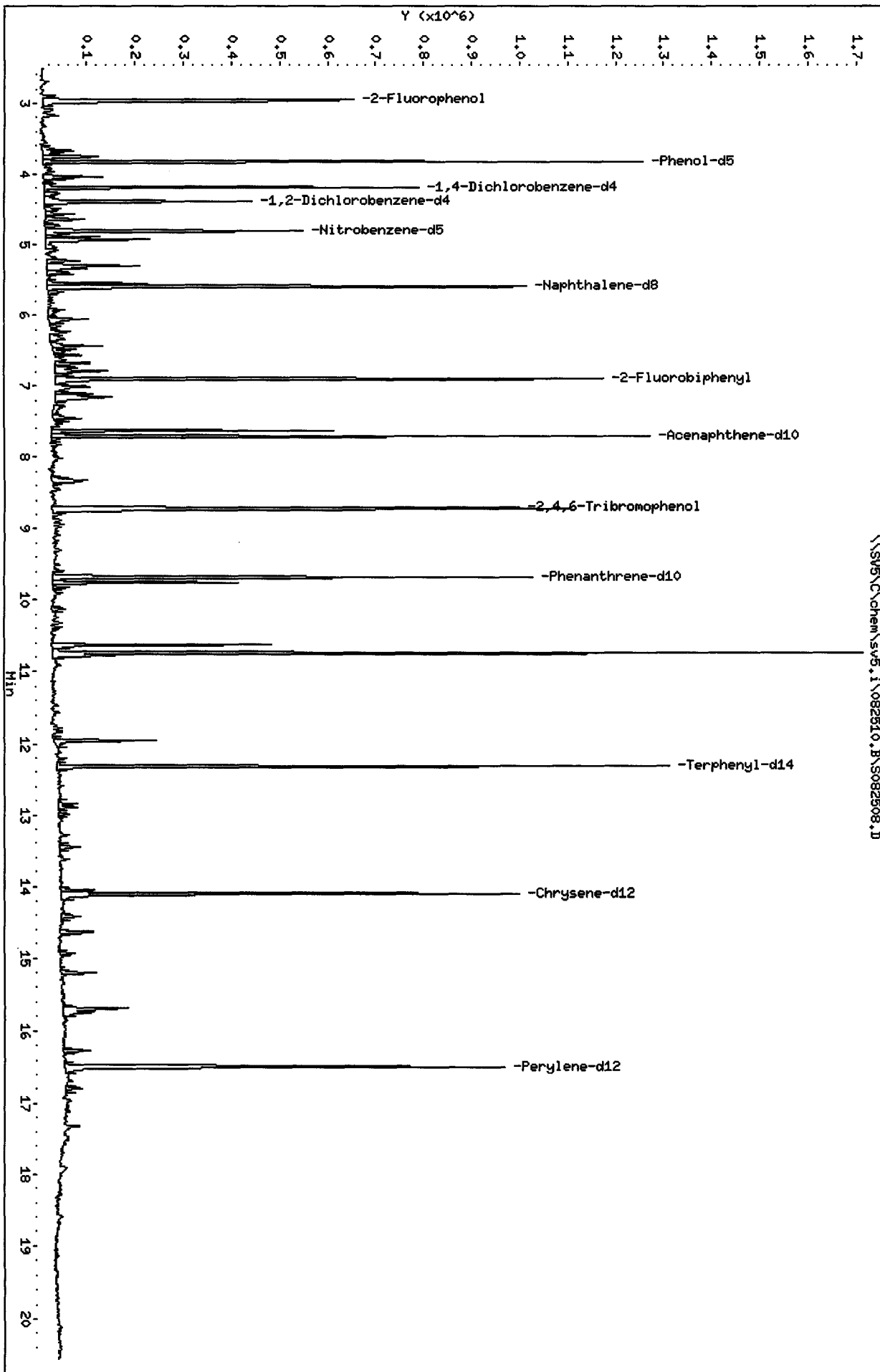
Client Name: Client SDG: 090498  
 Sample Matrix: GAS Fraction: SV  
 Lab Smp Id: L507M1AA G0H210471- Client Smp ID: 0235315  
 Level: LOW Operator: srs  
 Data Type: MS DATA SampleType: SAMPLE  
 SpikeList File: Quant Type: ISTD  
 Sublist File: S11JZHCB.SUB  
 Method File: \\SV5\C\chem\sv5.i\082510.B\8270F.m  
 Misc Info: 0;AIR;0;S11JZHCB.SUB;;0;0235315;8270F.M

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 7 2-Fluorophenol	100.0	62.07	62.07	41-105
\$ 8 Phenol-d5	100.0	86.43	86.43	43-122
\$ 10 1,2-Dichlorobenzen	50.00	25.07	50.15*	60-120
\$ 11 Nitrobenzene-d5	50.00	32.18	64.37	46-118
\$ 12 2-Fluorobiphenyl	50.00	42.18	84.36	58-105
\$ 13 2,4,6-Tribromophen	100.0	110.0	110.06	61-118
\$ 14 Terphenyl-d14	50.00	52.63	105.26	69-110

Data File: \\SV5\chem\sv5.1\082510.B\S082508.D  
Date: 25-AUG-2010 21:28  
Client ID: 0235315  
Sample Info: L507H1A4 G0H210471-8;0;11000;11000;5  
Volume Injected (uL): 1.0  
Column phase:

Instrument: sv5.i  
Operator: srs  
Column diameter: 2.00

\\SV5\chem\sv5.1\082510.B\S082508.D



# **Initial Calibration**

***Includes (as applicable):***

***runlog***

***standard raw data***

***statistical summary***

***ms tune data***

## TestAmerica West Sacramento MS SemiVOA ICAL Checklist Method 8270C

Instrument: SV5

DFTPP Mix ID: 10MSSV0129

Injection Date: 8/23/2010

STD Mix IDs: 10MSSV0307-0313

Initiator/Date: SRS/8/24/2010

2<sup>nd</sup> Source Mix ID: 10MSSV0314-3016  
23/8/24/10

Reviewer/Date: *[Signature]* 8/24/10

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
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### IV: Non-CCC Compounds Over 15% (Write compound and %D)

### V: Second Source Compounds Over 25% (Write compound and %D)

Benzidine @ -35.9%

3,3'-Dichlorobenzidine @ -43.6%

N-Nitrosodiphenylamine = -6.08%D after converse calculation.

\*\* Conversed Diphenylamine in ICAL and N-Nitrosodiphenylamine in 2<sup>nd</sup> Source. See Attached note.

~~1,3,5-Trinitrobenzene UCL @ 120 ppb. 12/9/10~~

**Truong, Kenny Q**

---

**From:** Allameh, David  
**Sent:** Tuesday, September 01, 2009 9:40 AM  
**To:** Truong, Kenny Q; Onishi, Marc; Young, Roger  
**Subject:** FW: n-nitrosodiphenylamine and diphenylamine

FYI. DA

**DAVID ALLAMEH**  
Organic & Advance Tech Instrument Manager

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING

880 Riverside Parkway  
West Sacramento, CA 95605  
Tel 916.374.4316 | Fax 916.372.1059  
[www.testamericainc.com](http://www.testamericainc.com)

---

**From:** Burrows, Richard  
**Sent:** Tuesday, September 01, 2009 9:36 AM  
**To:** Tech Contact - Semi MS  
**Cc:** Quality Assurance Mgrs; Carter, Charlie  
**Subject:** n-nitrosodiphenylamine and diphenylamine

As you probably know, n-nitrosodiphenylamine breaks down to diphenylamine in the injection port of the GC. Therefore n-nitrosodiphenylamine and diphenylamine cannot be distinguished unless a separation step is performed prior to analysis.

We recently noticed that some standards vendors make up most of their mixed 8270 calibration standards using diphenylamine, (eg Restek) while others use mostly n-nitrosodiphenylamine (eg Accustandard). Others have quite a mix (eg Ultra).

Depending on what you are using to calibrate, and what you are reporting, it may be necessary to apply a correction to the standards concentration because of the molecular weight difference between the two analytes.

→ Diphenylamine molecular weight = 169  
n-nitrosodiphenylamine molecular weight = 198

If you are calibrating with a standard containing diphenylamine and reporting n-nitrosodiphenylamine then the concentration of the standard should be corrected by the factor  $198/169 = 1.1716$

I.e., a 100ppm diphenylamine is equivalent to a 117ppm n-nitrosodiphenylamine standard.

Conversely a 100ppm n-nitrosodiphenylamine standard is equivalent to  $100 \times 169/198 = 85.4$ ppm diphenylamine standard.

Please check your standards and make any necessary adjustments next time you calibrate the instrument. It is not necessary to check past data since the correction is quite small and detections in field samples are rare.

Richard

9/4/2009

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 : 082310B.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
23-AUG-2010	15:30	KT	PRIMER	QC001.D	NA	NA	NA		
23-AUG-2010	15:53	KT	DFTPP 50ug/ml	DFT0823.D	NA	NA	NA		
23-AUG-2010	16:14	KT	HSL_050 ug/ml CS-4	HSL0823D.	NA	NA	NA		
23-AUG-2010	16:40	KT	HSL_005 ug/ml CS-1	HSL0823A.	NA	NA	NA		
23-AUG-2010	17:06	KT	HSL_010 ug/ml CS-2	HSL0823B.	NA	NA	NA		
23-AUG-2010	17:32	KT	HSL_020 ug/ml CS-3	HSL0823C.	NA	NA	NA		
23-AUG-2010	17:58	KT	HSL_080 ug/ml CS-5	HSL0823E.	NA	NA	NA		
23-AUG-2010	18:24	KT	HSL_120 ug/ml CS-6	HSL0823F.	NA	NA	NA		
23-AUG-2010	18:50	KT	HSL_160 ug/ml CS-7	HSL0823G.	NA	NA	NA		
23-AUG-2010	19:17	KT	HSL_050 ug/ml ICV	HSL0823H.	NA	NA	NA		
23-AUG-2010	19:40	KT	DFTPP 50ug/ml	DFT0823A.	NA	NA	NA		
23-AUG-2010	20:01	KT	HSL_050 ug/ml CS-4	HSL0823.D	NA	NA	NA		
23-AUG-2010	20:27	KT	AP9_050 ug/ml CS-4	AP90823.D	NA	NA	NA		
23-AUG-2010	20:53	KT	L5NL11AA G0H170000-247B	S082301.D	30 g	1 mL	1	QL	
23-AUG-2010	21:19	KT	L5NL11AC G0H170000-247C	S082302.D	30 g	1 mL	1	QL	
23-AUG-2010	21:45	KT	L5NL11AD G0H170000-247L	S082303.D	30 g	1 mL	1	QL	
23-AUG-2010	22:11	KT	L5C2G1CA G0H100464-1	S082304.D	29.6 g	1 mL	1	QL	

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 Integrator : Falcon  
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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	Concentration Levels							Coefficients			%RSD or R <sup>2</sup>
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	b	m1	m2	
15 N-Nitrosodimethylamine	0.96889 1.05190	1.05182	0.99956	0.99636	1.00582	1.05227	AVRG		1.01809		3.31569
16 Pyridine	1.74257 1.72467	1.59471	1.74951	1.63473	1.66672	1.69519	AVRG		1.68687		3.43478
23 Aniline	2.24812 2.45688	2.28154	2.37340	2.38842	2.38827	2.47149	AVRG		2.37259		3.49111
24 Phenol	1.88616 2.05304	1.93326	2.00386	2.01812	2.00543	2.06067	AVRG		1.99436		3.17504

Manual calculation for 4-chloroaniline @ Level 5:  
 $\frac{470189}{521882} \times \frac{40}{80} = 0.45066$  by gxyho

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Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Curve	Coefficients		m2	%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	b	m1								
160.0000																	
Level 7																	
26 Bis(2-chloroethyl) ether	1.47312	1.56559	1.55119	1.49744	1.49537	1.56317				1.52541			AVRG				2.41864
	1.53196																
27 2-Chlorophenol	1.52824	1.56033	1.61368	1.58355	1.57468	1.60613							AVRG				1.85377
	1.59500																
28 1,3-Dichlorobenzene	1.73906	1.72995	1.80379	1.71226	1.72294	1.75843							AVRG				1.73709
	1.73696																
29 1,4-Dichlorobenzene	1.66586	1.73928	1.83198	1.77477	1.75374	1.81591							AVRG				3.10324
	1.78035																
30 Benzyl Alcohol	1.04428	1.06832	1.06188	1.03772	1.08155	1.14825							AVRG				4.19469
	1.14577																
31 1,2-Dichlorobenzene	1.68974	1.67274	1.71059	1.64423	1.64560	1.66052							AVRG				1.49730
	1.65040																
32 2-Methylphenol	1.38289	1.42297	1.48961	1.51774	1.50470	1.55035							AVRG				4.31730
	1.55488																



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Compound	Coefficients							m2	WRSD or R^2		
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve			b	m1
33 2,2'-oxybis(1-Chloropropane)	2.84785 2.90713	2.85870	2.95562	2.91080	2.89000	2.96987	AVRG		2.90571		1.56706
34 4-Methylphenol	1.43204 1.63301	1.55502	1.60476	1.60650	1.60766	1.65718	AVRG		1.58517		4.69088
36 Hexachloroethane	0.62035 0.62827	0.60365	0.62821	0.60905	0.62746	0.63771	AVRG		0.62210		1.92646
37 N-Nitrosodipropylamine	1.09571 1.13347	1.08610	1.10028	1.12427	1.11067	1.15868	AVRG		1.11560		2.24842
42 Nitrobenzene	0.36219 0.36074	0.34203	0.34763	0.35298	0.36080	0.36388	AVRG		0.35575		2.35137
44 Isophorone	0.66145 0.69459	0.63880	0.64953	0.68152	0.68986	0.71183	AVRG		0.67537		3.89210
45 2-Nitrophenol	0.17049 0.20453	0.18464	0.18131	0.19207	0.20021	0.20605	AVRG		0.19133		6.91310

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Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Curve	Coefficients		RSD 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	b	
46 2,4-Dimethylphenol	0.35903	0.34291	0.35324	0.35760	0.36429	0.37344	0.38266	0.35909	0.34291	0.35324	0.35760	0.36429	AVRG	0.35866		3.03764
47 Bis(2-chloroethoxy)methane	0.40053	0.41392	0.40277	0.40564	0.40400	0.39962	0.40053	0.40053	0.41392	0.40277	0.40564	0.40400	AVRG	0.40130		2.36059
49 2,4-Dichlorophenol	0.25786	0.25737	0.25223	0.25884	0.26620	0.27159	0.26588	0.25786	0.25737	0.25223	0.25884	0.26620	AVRG	0.26143		2.54913
50 Benzoic Acid	0.16121	0.17577	0.18229	0.20529	0.21498	0.23705	0.22986	0.16121	0.17577	0.18229	0.20529	0.21498	AVRG	0.20092		14.24660
51 1,2,4-Trichlorobenzene	0.29021	0.28557	0.27950	0.28225	0.27684	0.28326	0.28345	0.29021	0.28557	0.27950	0.28225	0.27684	AVRG	0.28301		1.50984
52 Naphthalene	1.12400	1.11117	1.10276	1.09233	1.12240	1.12626	1.11373	1.12400	1.11117	1.10276	1.09233	1.12240	AVRG	1.11324		1.11287
54 4-Chloroaniline	0.43559	0.43229	0.41656	0.44746	0.45066	0.44814	0.44364	0.43559	0.43229	0.41656	0.44746	0.45066	AVRG	0.43919		2.74566

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Compound	Levels							Curve	Coefficients			RSD or R <sup>2</sup>
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		ml	m2		
57 Hexachlorobutadiene	0.13724 0.13329	0.13729	0.12865	0.13303	0.13449	0.13480	AVRG	0.13411			2.19981	
60 4-Chloro-3-Methylphenol	0.28266 0.31540	0.28184	0.29350	0.31743	0.31440	0.32140	AVRG	0.30380			5.66552	
63 2-Methylnaphthalene	0.66030 0.67713	0.66646	0.66655	0.70266	0.68612	0.69813	AVRG	0.67962			2.43230	
66 Hexachlorocyclopentadiene	0.29355 0.32065	0.30733	0.28835	0.30682	0.30412	0.32444	AVRG	0.30646			4.26674	
69 2,4,6-Trichlorophenol	0.25681 0.32049	0.29324	0.29720	0.31093	0.31309	0.31902	AVRG	0.30154			7.38417	
70 2,4,5-Trichlorophenol	0.30873 0.35642	0.31519	0.31033	0.33466	0.33251	0.34219	AVRG	0.32858			5.44352	
71 2-Chloronaphthalene	1.13679 1.12484	1.10936	1.09095	1.10163	1.12392	1.12218	AVRG	1.11567			1.41168	

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Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Curve	b	Coefficients		m2	RSR or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 5	Level 4	Level 3	Level 2	Level 1	Level 6			ml	m2		
	160.0000																	
	Level 7																	
73 2-Nitroaniline	0.35833	0.35844	0.35723	0.39105	0.39726	0.40598	AVRG								0.38116			5.79967
76 Dimethylphthalate	1.25306	1.26620	1.26918	1.31989	1.29348	1.32602	AVRG								1.29156			2.25357
77 Acenaphthylene	1.82849	1.93218	1.92367	2.00150	1.96882	2.02286	AVRG								1.95828			3.61566
79 2,6-Dinitrotoluene	0.25117	0.27195	0.27861	0.30390	0.29808	0.30841	AVRG								0.28888			7.68104
80 3-Nitroaniline	0.35512	0.37403	0.37160	0.38883	0.39955	0.39276	AVRG								0.38296			4.31846
81 Acenaphthene	1.21385	1.26369	1.23185	1.25365	1.24508	1.25557	AVRG								1.24572			1.46237
82 2,4-Dinitrophenol	3056	7808	19504	58321	98584	196121	QUAD								0.06817	5.63982	-0.99418	0.99933
	226471																	

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Compound	Coefficients							m2	RRSD or R <sup>2</sup>
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve		
	160.0000 Level 7								
83 Dibenzofuran	1.64751 1.65111	1.63735	1.61938	1.66053	1.65279	1.64898	AVRG	1.64538	0.81370
84 4-Nitrophenol	0.14764 0.18039	0.16735	0.16748	0.18141	0.17084	0.18103	AVRG	0.17088	7.04062
86 2,4-Dinitrotoluene	0.33434 0.42263	0.35645	0.36707	0.41360	0.40454	0.41333	AVRG	0.38742	8.86723
91 Fluorene	1.29343 1.34937	1.36101	1.33937	1.37726	1.35126	1.37156	AVRG	1.34904	2.06093
92 Diethylphthalate	1.40422 1.35208	1.34275	1.30040	1.37771	1.34457	1.35434	AVRG	1.35372	2.36989
93 4-Chlorophenyl-phenylether	0.56372 0.54015	0.56547	0.54356	0.56707	0.55320	0.54375	AVRG	0.55385	2.08891
94 4-Nitroaniline	0.33600 0.40361	0.34650	0.36880	0.40047	0.40300	0.39022	AVRG	0.37837	7.45545

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Compound	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	b	Coefficients			%RSD or R^2
									m1	m2		
97 4,6-Dinitro-2-methylphenol	3873 272463	9956	23755	72789	120703	236110	LINEAR	0.11602	0.15901			0.99754
98 N-Nitrosodiphenylamine	0.63329 0.62213	0.64394	0.61161	0.62470	0.61303	0.63481	AVRG		0.62622			1.89406
100 Azobenzene	0.85141 0.86648	0.86535	0.86960	0.91029	0.89589	0.90641	AVRG		0.88363			2.51238
101 4-Bromophenyl-phenylether	0.18167 0.19475	0.19743	0.18779	0.18956	0.18908	0.20302	AVRG		0.19190			3.66766
108 Hexachlorobenzene	0.20429 0.20357	0.21624	0.20371	0.20680	0.20359	0.21391	AVRG		0.20744			2.59081
110 Pentachlorophenol	0.10680 0.14381	0.11478	0.11400	0.13968	0.13362	0.14680	AVRG		0.12850			12.66814
114 Phenanthrene	1.21917 1.25159	1.28019	1.23623	1.27426	1.22593	1.27878	AVRG		1.25231			2.06531

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Compound	Coefficients							Curve	m1	m2	RRSD or R <sup>2</sup>
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b				
115 Anthracene	1.19986 1.27499	1.23604 1.25985	1.26048 1.29165	1.29165 1.30813	1.25985 1.26014	1.30813 1.26014	AVRG	1.26014			2.95384
118 Carbazole	1.11142 1.19503	1.16563 1.17347	1.17347 1.21035	1.21035 1.15248	1.15248 1.23437	1.23437 1.17754	AVRG	1.17754			3.42691
120 Di-n-Butylphthalate	1.26476 1.54551	1.32448 1.35483	1.35483 1.47670	1.47670 1.44506	1.44506 1.57000	1.57000 1.42590	AVRG	1.42590			8.06364
126 Fluoranthene	1.04236 1.20117	1.08537 1.09172	1.09172 1.16724	1.16724 1.13207	1.13207 1.20258	1.20258 1.13179	AVRG	1.13179			5.45124
127 Benzidine	0.69817 0.89528	0.76119 0.80297	0.80297 0.86970	0.86970 0.87146	0.87146 0.89384	0.89384 0.82752	AVRG	0.82752			9.15455
128 Pyrene	1.23262 1.22735	1.23070 1.23452	1.23452 1.22497	1.22497 1.26083	1.26083 1.28201	1.28201 1.24186	AVRG	1.24186			1.71815
134 3,3'-dimethylbenzidine	0.57772 0.78143	0.64215 0.66259	0.66259 0.74301	0.74301 0.75852	0.75852 0.80421	0.80421 0.70995	AVRG	0.70995			11.75275

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Compound	Level							Curve	Coefficients			RSD or R <sup>2</sup>
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	b		m1	m2		
136 Butylbenzylphthalate	0.57636 0.67292	0.61494	0.61715	0.65104	0.67065	0.69536	AVRG	0.64263			6.46643	
138 Benzo(a)Anthracene	1.02578 1.09142	1.03592	1.01657	1.06052	1.07060	1.10187	AVRG	1.05752			3.09964	
139 Chrysene	1.10828 1.08629	1.10275	1.09598	1.08047	1.08291	1.10189	AVRG	1.09407			0.99562	
140 3,3'-Dichlorobenzidine	0.34437 0.40880	0.35896	0.37783	0.38688	0.39907	0.41490	AVRG	0.38440			6.74998	
141 bis(2-ethylhexyl)Phthalate	0.80275 0.93953	0.83360	0.84293	0.91147	0.92714	0.96751	AVRG	0.88842			6.92857	
142 Di-n-octylphthalate	1.19625 1.59168	1.26236	1.33214	1.49733	1.51669	1.60486	AVRG	1.42876			11.46770	
144 Benzo(b)fluoranthene	0.82394 1.03354	0.85542	0.87764	1.00967	0.97702	1.06991	AVRG	0.94959			10.14841	



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Compound	5.0000							20.0000							50.0000							80.0000							120.0000							Coefficients ml m2 %RSD of R^2			
	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	Level 7	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	Level 7	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7				
145 Benzo (k) fluoranthene	1.10523	1.11747	1.13186	1.13692	1.14940	1.08128		1.13186	1.13692	1.14940	1.08128	AVRG																								1.11337		2.60990	
147 Benzo (e) pyrene	0.89074	0.89331	0.91987	0.97134	0.96980	0.97720		0.91987	0.97134	0.96980	0.97720	AVRG																								0.94145		4.12057	
148 Benzo (a) pyrene	0.96908	0.96755	1.06225	1.07871	1.06051	1.06993		1.06225	1.07871	1.06051	1.06993	AVRG																								1.03915		4.69115	
151 Indeno (1,2,3-cd) pyrene	0.80528	0.84741	0.85139	0.86155	0.91630	0.96289		0.85139	0.86155	0.91630	0.96289	AVRG																								0.88334		6.42770	
152 Dibenzo (a,h) anthracene	0.84857	0.90123	0.88328	0.97213	0.97721	1.00284		0.88328	0.97213	0.97721	1.00284	AVRG																									0.94269		6.82071
153 Benzo (g,h,i) perylene	0.96218	0.96959	0.99765	1.02417	1.00535	1.04742		0.99765	1.02417	1.00535	1.04742	AVRG																									1.00655		3.26538
M 162 benzo b,k Fluoranthene Total	1.92917	1.97288	2.00950	2.14659	2.12642	2.15118		2.00950	2.14659	2.12642	2.15118	AVRG																									2.06296		4.40028
	2.10498																																						

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Compound	5.0000		10.0000		20.0000		50.0000		80.0000		120.0000		Curve	Coefficients		WRSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Level 9	Level 10	Level 11	Level 12		b	m1	
\$ 7 2-Fluorophenol	1.40317	1.45900	1.48286	1.46235	1.47525	1.54271	1.52928						AVRG	1.47923		3.15195
\$ 8 Phenol-d5	1.78725	1.79144	1.93724	1.91160	1.93287	1.97426	1.92848						AVRG	1.89473		3.92785
\$ 9 2-Chlorophenol-d4	1.54693	1.59756	1.59947	1.57623	1.59928	1.63928	1.62816						AVRG	1.59813		1.92838
\$ 10 1,2-Dichlorobenzene-d4	1.01330	1.02117	1.02138	0.95559	0.97692	0.98921	0.98261						AVRG	0.99431		2.52409
\$ 11 Nitrobenzene-d5	0.34282	0.35237	0.35099	0.35695	0.36256	0.36828	0.36495						AVRG	0.35699		2.50560
\$ 12 2-Fluorobiphenyl	1.26620	1.29361	1.24047	1.23528	1.25165	1.28600	1.28839						AVRG	1.26594		1.89831
\$ 13 2,4,6-Tribromophenol	0.13339	0.14298	0.14607	0.16910	0.16641	0.17037	0.16706						AVRG	0.15648		9.71493

TestAmerica West Sacramento  
INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 23-AUG-2010 18:50  
 Quant Method : ISTD  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\082310B.B\8270f.m  
 Last Edit : 24-Aug-2010 16:38 scotts

Compound	Concentration Levels							Coefficients		RSD or R <sup>2</sup>	
	5.0000 Level 1	10.0000 Level 2	20.0000 Level 3	50.0000 Level 4	80.0000 Level 5	120.0000 Level 6	Curve	b	m1		m2
14 Terphenyl-d14	0.76318	0.78543	0.75391	0.76156	0.78639	0.79768	AVRG		0.77396		2.07014
	0.76957										

TestAmerica West Sacramento

INITIAL CALIBRATION DATA

Start Cal Date : 17-AUG-2010 17:32  
 End Cal Date : 23-AUG-2010 18:50  
 Quant Method : ISID  
 Target Version : 4.14  
 Integrator : Falcon  
 Method file : \\SV5\C\chem\sv5.i\082310B.B\8270f.m  
 Last Edit : 24-Aug-2010 16:38 scotts

Curve	Formula	Units
Averaged	Ant = Resp/ml	Response
Linear	Ant = b + Resp/ml	Response
Quad	Ant = b + m1*Resp + m2*Resp^2	Response

Signal Calibration Report

Method : \\Sv5\C\chem\sv5.i\082310B.B\8270f.m  
 Last Edit: 24-Aug-2010 16:38 scotts  
 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 = 0.16393103600000  
 RSD: 20.161

Initial Calibration Table

Lvl	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
1	7.811	5.00000	3066	7.718	40.000	207096	0.11843782593580
2	7.811	10.00000	7808	7.718	40.000	244234	0.12787736351204
3	7.811	20.00000	19504	7.718	40.000	263989	0.14776373257977
4	7.822	50.00000	58321	7.718	40.000	264752	0.17622831933281
5	7.822	80.00000	98584	7.718	40.000	277616	0.17755460780358
6	7.822	120.00000	196121	7.718	40.000	330719	0.19767133629053
7	7.822	160.00000	226471	7.718	40.000	280308	0.20198406752572

Lvl	Sublist	Calibration File
1	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823A
2	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823B
3	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823C
4	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823D
5	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823E
6	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823F
7	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823G

Continuing Calibration Table

Ind	RT	Amount	Response	RT	Istd Amount	Istd Response	Response Factor
-----	----	--------	----------	----	-------------	---------------	-----------------

1	7.822	50.000	66513	7.718	40.000	295770	0.17990465564459
2	7.822	50.000	58901	7.718	40.000	274779	0.17148617616339
3	7.822	50.000	58321	7.718	40.000	264752	0.17622831933281
4	7.816	50.000	90734	7.713	40.000	414154	0.17526620532459
5	7.858	50.000	49564	7.754	40.000	260934	0.15195873285965
6	7.858	50.000	63475	7.754	40.000	318667	0.15935129774969
7	7.889	50.000	58884	7.785	40.000	318462	0.14792094504211
8	7.889	50.000	52456	7.796	40.000	304639	0.13775255302177
9	7.889	50.000	44855	7.796	40.000	283970	0.12636546114026
10	7.889	50.000	40711	7.785	40.000	264293	0.12322990014870
Avg	7.855	50.000	58441	7.754	40.000	26429	0.15494642464276

Ind	Sublist	Calibration File
1	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823
2	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823H
3	1_8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823D
4	1_8270STD	\\SV5\C\chem\sv5.i\082310A.B\HSL0823A
5	1_8270STD	\\SV5\C\chem\sv5.i\082010.B\HSL0820
6	1_8270STD	\\sv5\c\chem\sv5.i\082010.B\QC001
7	1_8270STD	\\sv5\c\chem\sv5.i\081810A.B\HSL0818A
8	1_8270STD	\\sv5\c\chem\sv5.i\081810.B\HSL0818
9	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817D
10	1_8270STD	\\SV5\C\chem\sv5.i\081710.B\HSL0817H

Report Date: 24-Aug-2010 13:22

### Calibration History

Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
Start Cal Date: 17-AUG-2010 17:32  
End Cal Date : 23-AUG-2010 18:50  
Last Cal Level: 1  
Last Cal Type : Initial Calibration

#### Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
17-AUG-2010 21:45	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817A.D
23-AUG-2010 16:40	1 8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823A.D
Cal Level: 2 , Cal Amount: 10.00000		
17-AUG-2010 22:11	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817B.D
23-AUG-2010 17:06	1 8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823B.D
Cal Level: 3 , Cal Amount: 20.00000		
17-AUG-2010 22:37	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817C.D
23-AUG-2010 17:32	1 8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823C.D
Cal Level: 4 , Cal Amount: 50.00000		
17-AUG-2010 21:19	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817D.D
23-AUG-2010 16:14	1 8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823D.D
Cal Level: 5 , Cal Amount: 80.00000		
17-AUG-2010 23:03	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817E.D
23-AUG-2010 17:58	1 8270STD	\\sv5\c\chem\sv5.i\082310B.B\HSL0823E.D
Cal Level: 6 , Cal Amount: 120.00000		
17-AUG-2010 23:29	2AP9STD	\\SV5\C\chem\sv5.i\081710.B\AP90817F.D
23-AUG-2010 18:24	1 8270STD	

\\sv5\c\chem\sv5.i\082310B.B\HSL0823F.D

Cal Level: 7 , Cal Amount: 160.00000

17-AUG-2010 23:55 | 2AP9STD |  
\\SV5\C\chem\sv5.i\081710.B\AP90817G.D  
23-AUG-2010 18:50 | 1 8270STD |  
\\sv5\c\chem\sv5.i\082310B.B\HSL0823G.D

Continuing Calibration  
Ccal Level Mode: GLOBAL LEVEL 4

23-AUG-2010 16:14 | 1 8270STD |  
\\sv5\c\chem\sv5.i\082310B.B\HSL0823D.D  
23-AUG-2010 15:30 | 1 8270STD |  
\\SV5\C\chem\sv5.i\082310B.B\QC001.D  
23-AUG-2010 14:51 | 1 8270STD |  
\\SV5\C\chem\sv5.i\082310A.B\HSL0823A.D  
20-AUG-2010 20:47 | 2AP9STD |  
\\SV5\C\chem\sv5.i\082010.B\AP90820.D  
20-AUG-2010 17:37 | 1 8270STD |  
\\SV5\C\chem\sv5.i\082010.B\HSL0820.D  
20-AUG-2010 16:53 | 1 8270STD |  
\\sv5\c\chem\sv5.i\082010.B\QC001.D  
18-AUG-2010 21:59 | 1 8270STD |  
\\sv5\c\chem\sv5.i\081810A.B\HSL0818A.D  
18-AUG-2010 11:56 | 1 8270STD |  
\\sv5\c\chem\sv5.i\081810.B\HSL0818.D  
17-AUG-2010 17:32 | 1 8270STD |  
\\SV5\C\chem\sv5.i\081710.B\HSL0817D.D  
17-AUG-2010 21:19 | 2AP9STD |  
\\SV5\C\chem\sv5.i\081710.B\AP90817D.D  
17-AUG-2010 20:34 | 1 8270STD |  
\\SV5\C\chem\sv5.i\081710.B\HSL0817H.D



TAILING FACTOR/DEGRADATION SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.0132185	5.000	PASS
Benzidine	0.4745010	3.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	291132	17.4	20.5	PASS

Sample //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D

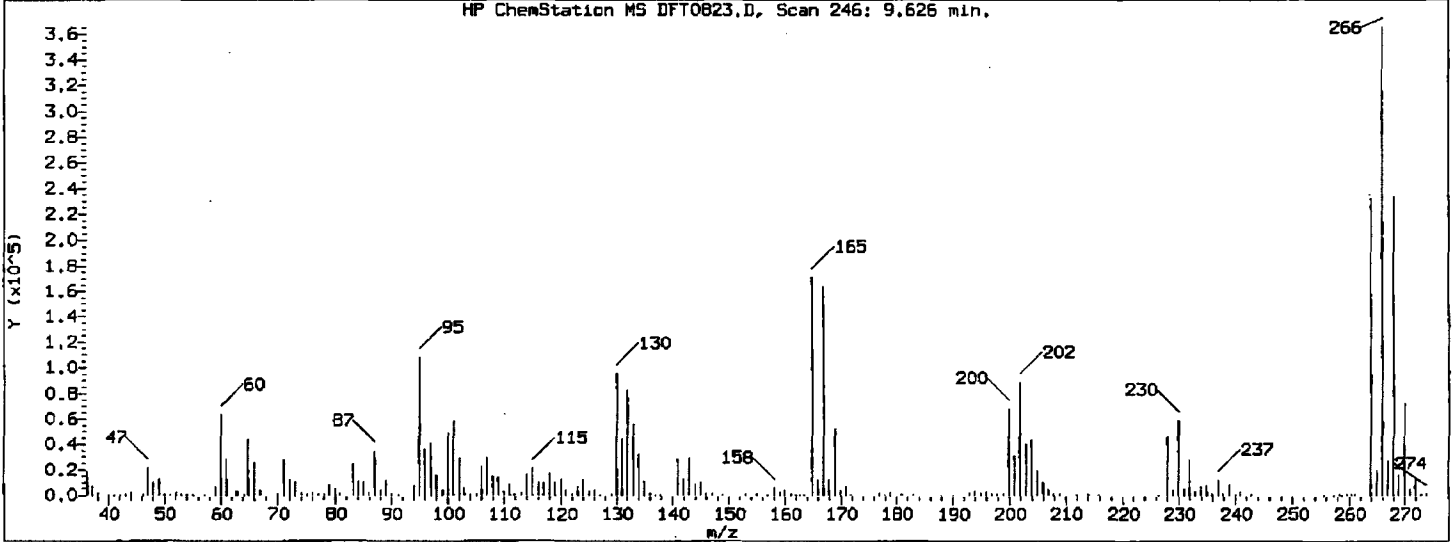
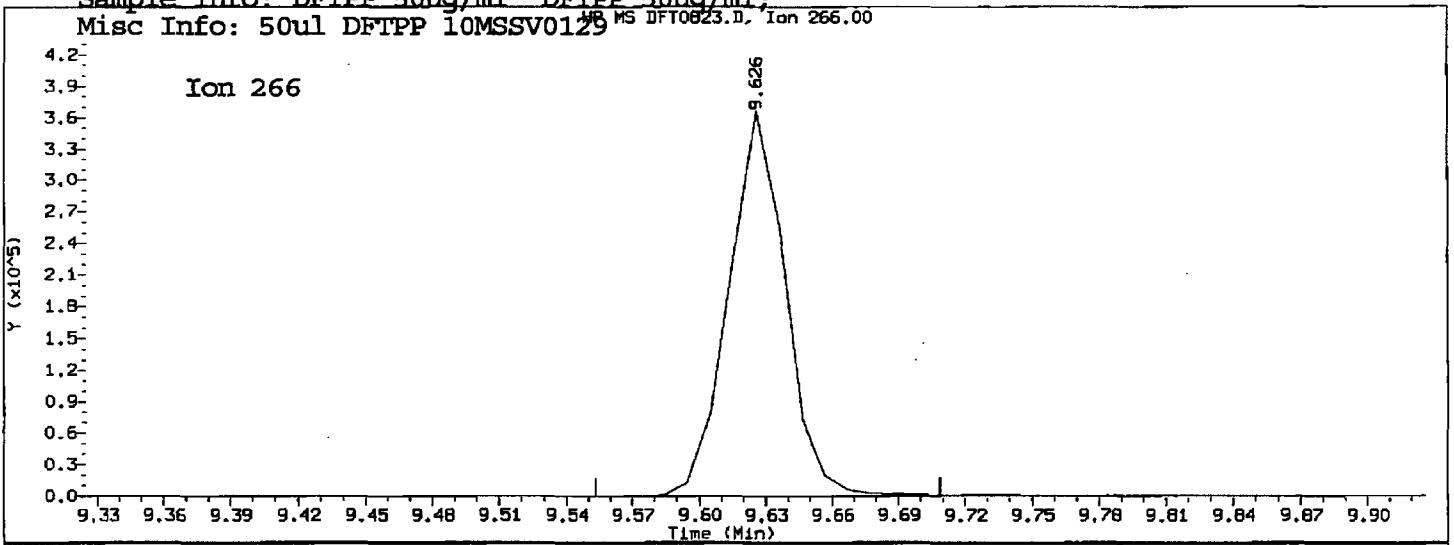
\*\*\*\*\*  
 \*\*\* PASSED \*\*\*  
 \*\*\*\*\*

*5/18/24/10*

TAILING FACTOR/DEGRADATION SAMPLE AND GRAPHIC REPORT

Report Date: 08/23/2010 16:11

Datafile Analyzed: //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D  
Method Used: \\SV5\C\chem\sv5.i\082310B.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 23-AUG-2010 15:53 Operator: KT  
Sample Info: DFPP 50ug/ml DFPP 50ug/ml;  
Misc Info: 50ul DFPP 10MSSV0129



Pentachlorophenol

=====  
Exp. RT = 9.771  
Found RT = 9.626

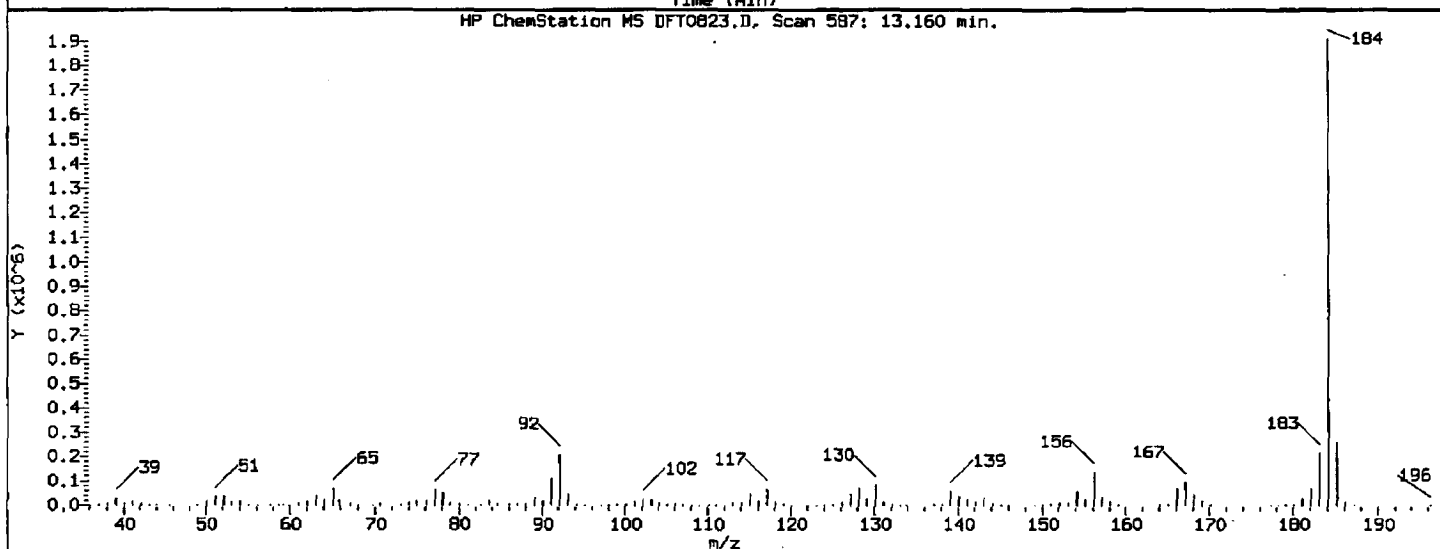
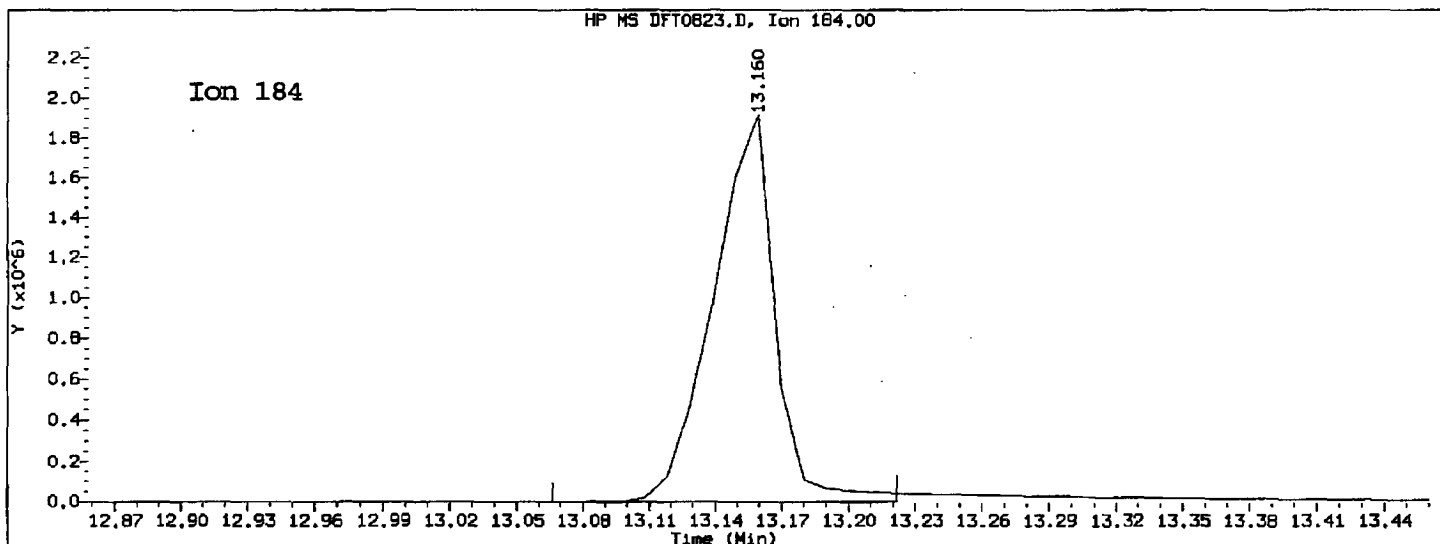
Time1 = 9.598356    Time2 = 9.625783    Time3 = 9.653574  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Pentachlorophenol OK

Tail Factor = 1.013    Maximum Allowed = 5.0

Report Date: 08/23/2010 16:11

Datafile Analyzed: //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D  
Method Used: \\SV5\C\chem\sv5.i\082310B.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 23-AUG-2010 15:53 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



Benzidine

=====  
Exp. RT = 13.315  
Found RT = 13.160

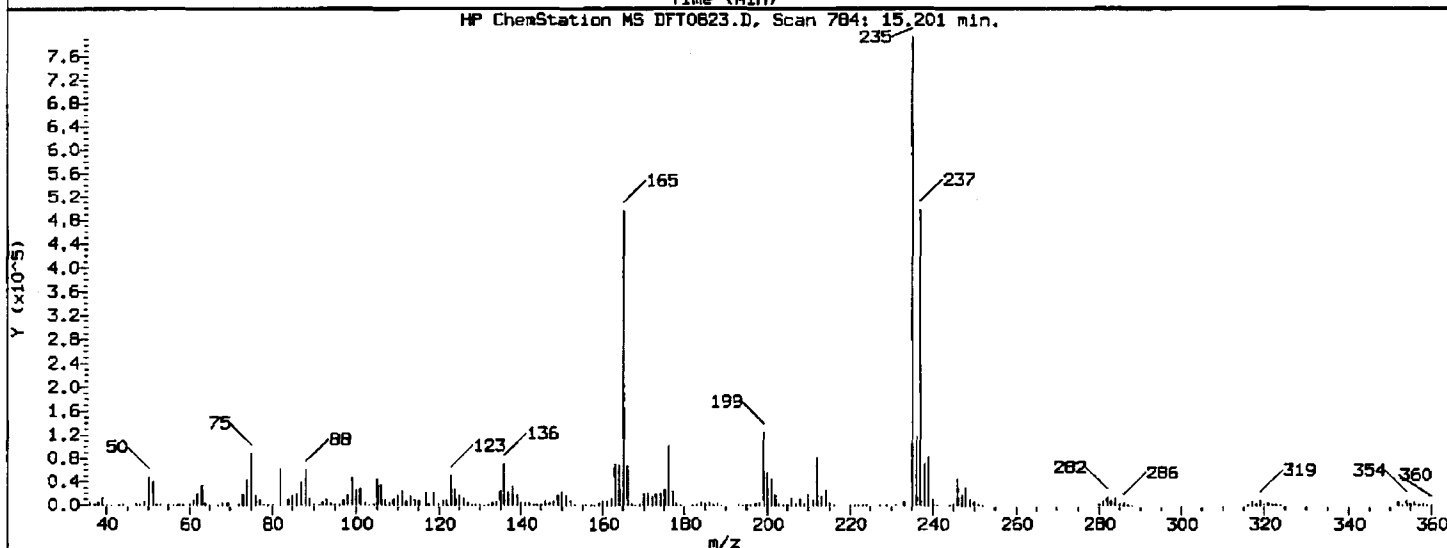
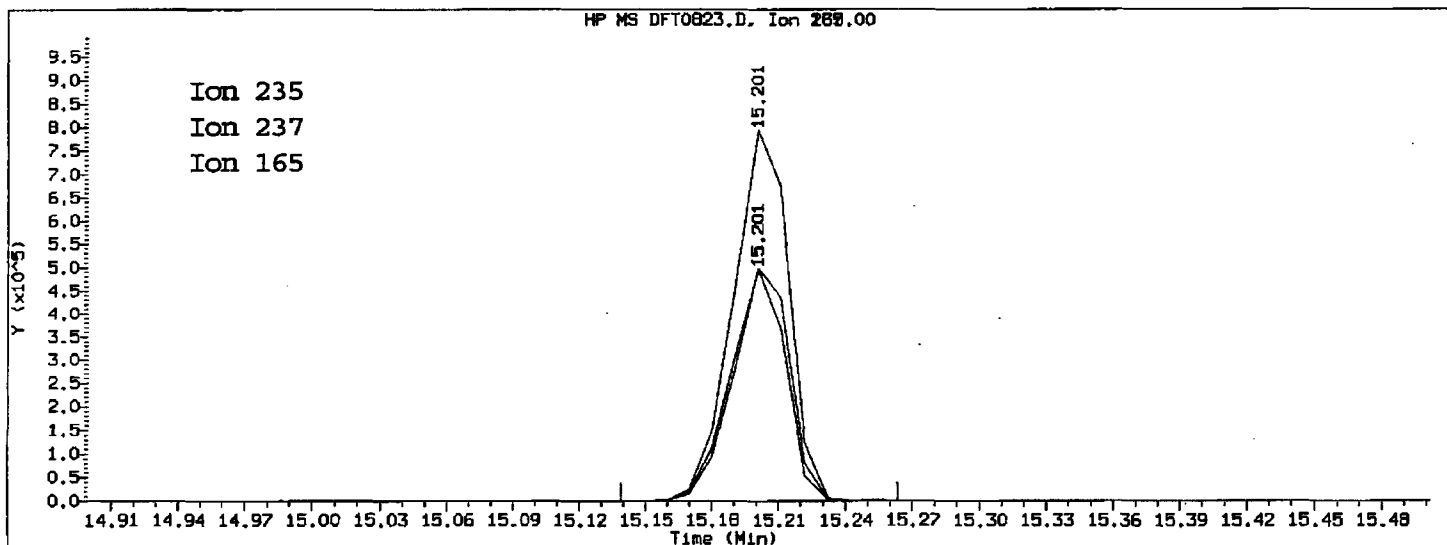
Time1 = 13.12013    Time2 = 13.15958    Time3 = 13.1783  
Tailing Factor = (Time3 - Time2)/(Time2 - Time1)

Tailing factor for Benzidine OK

Tail Factor = 0.475    Maximum Allowed = 3.0

Report Date: 08/23/2010 16:11

Datafile Analyzed: //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D  
Method Used: \\SV5\C\chem\sv5.i\082310B.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 23-AUG-2010 15:53 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



4,4'-DDT

=====

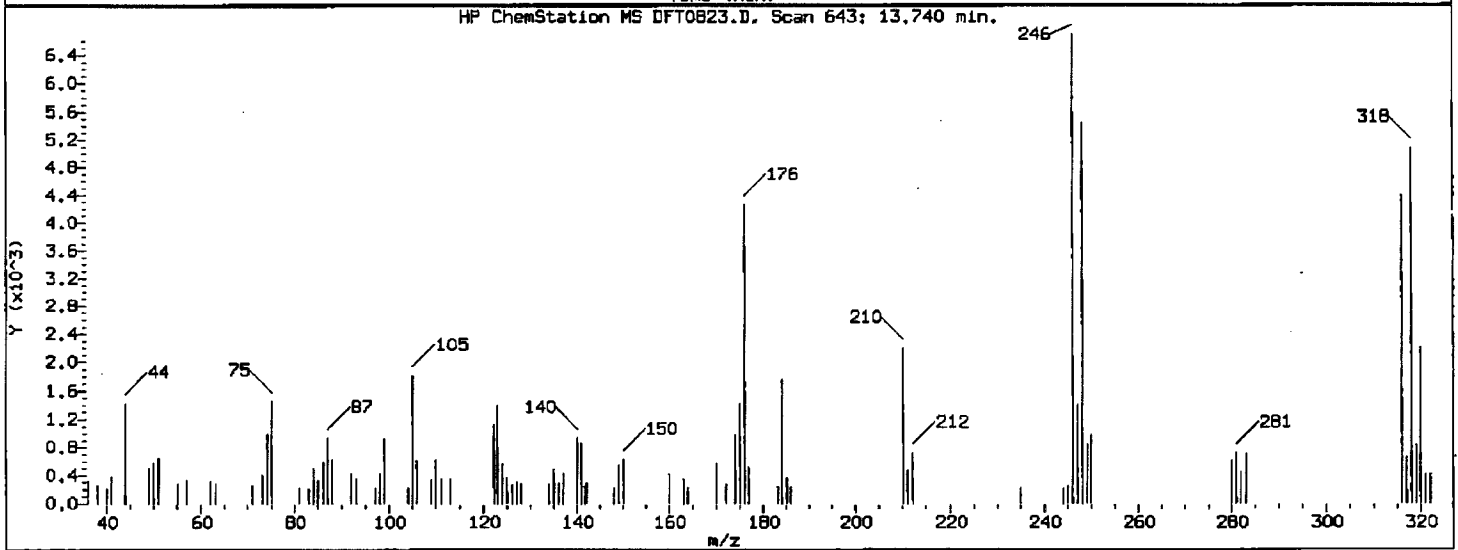
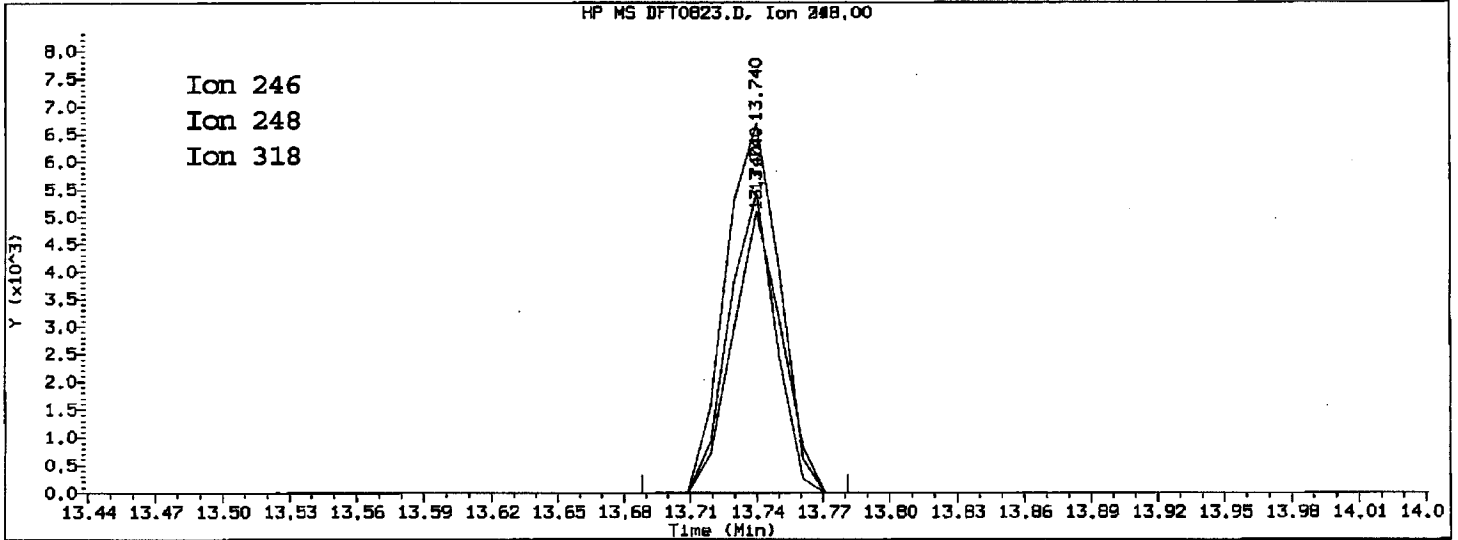
Exp. RT = 15.357

Found RT = 15.201

Mass	Area	Ratio
235	1385762	100.00
237	878311	63.38
165	847985	61.19

Report Date: 08/23/2010 16:11

Datafile Analyzed: //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D  
Method Used: \\SV5\C\chem\sv5.i\082310B.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 23-AUG-2010 15:53 Operator: KT  
Sample Info: DFIPP 50ug/ml DFIPP 50ug/ml;  
Misc Info: 50ul DFIPP 10MSSV0129



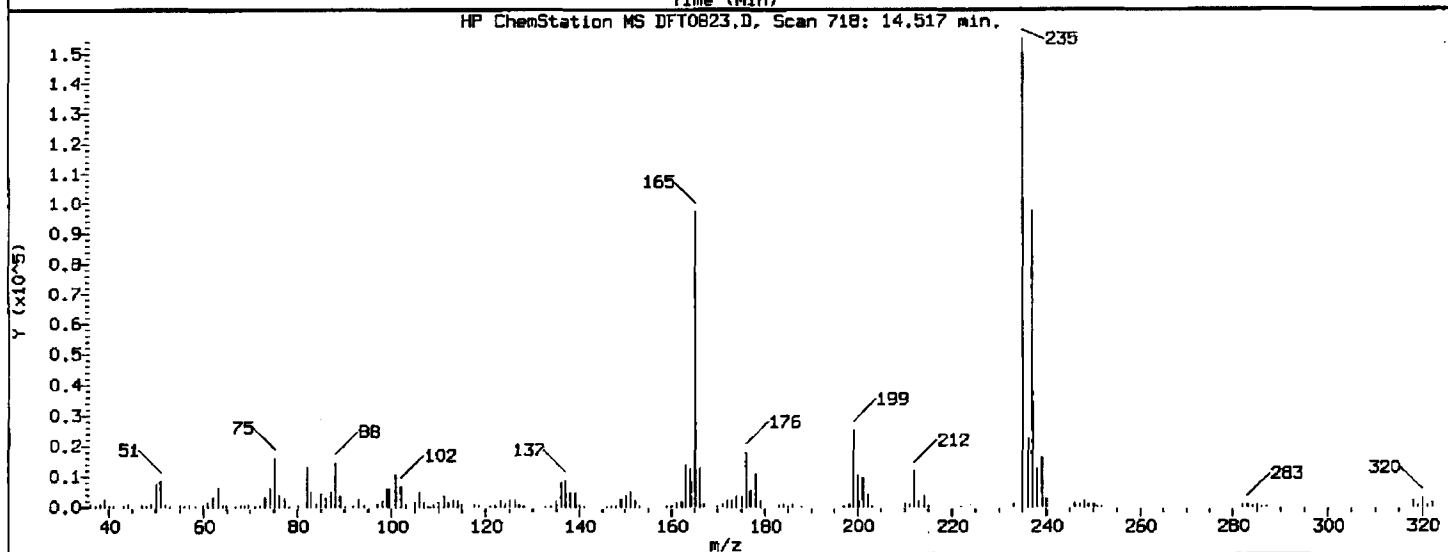
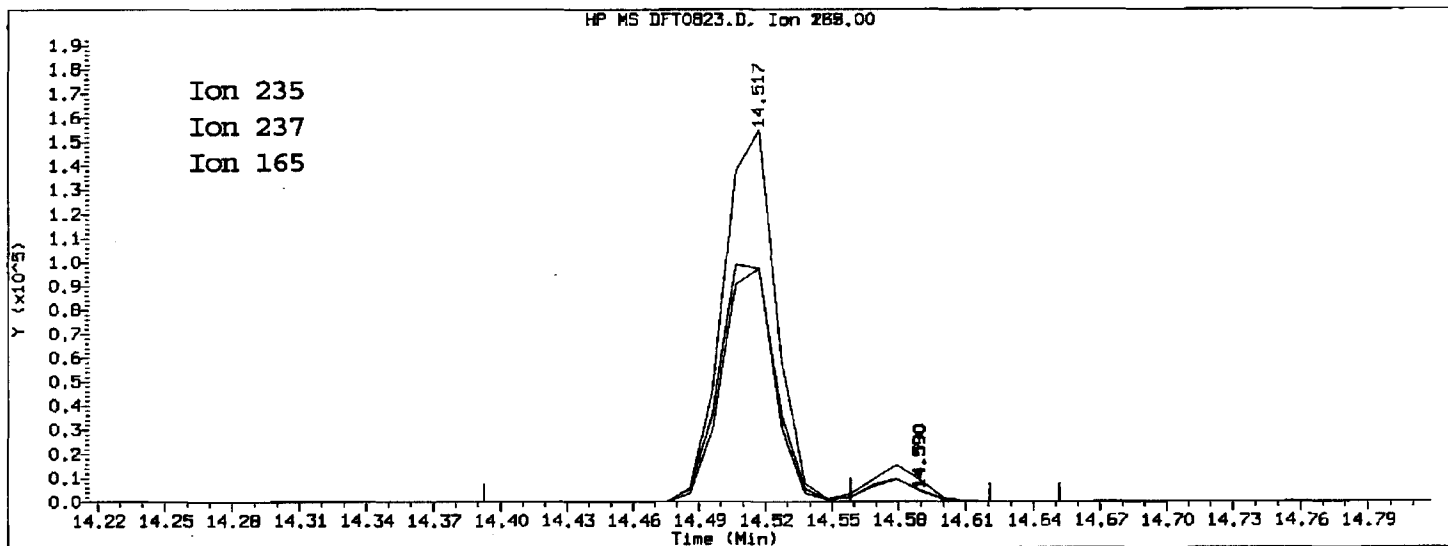
4,4'-DDE

=====  
Exp. RT = 13.875  
Found RT = 13.740

Mass	Area	Ratio
246	11269	100.00
248	7978	70.80
318	7894	70.06

Report Date: 08/23/2010 16:11

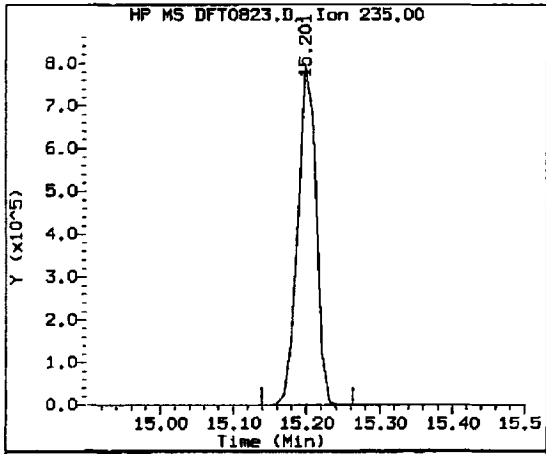
Datafile Analyzed: //SV5/C/chem/sv5.i/082310B.B/DFT0823.D/DFT0823.D  
Method Used: \\SV5\C\chem\sv5.i\082310B.B\DFTPP.M\resol.m Inst: sv5  
Injection Date: 23-AUG-2010 15:53 Operator: KT  
Sample Info: DFTPP 50ug/ml DFTPP 50ug/ml;  
Misc Info: 50ul DFTPP 10MSSV0129



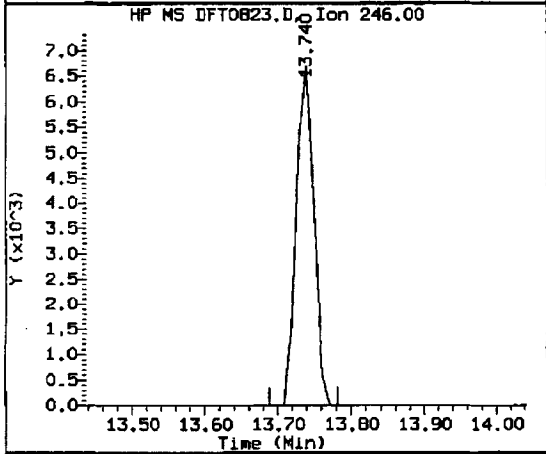
4,4'-DDD

=====  
Exp. RT = 14.652  
Found RT = 14.517

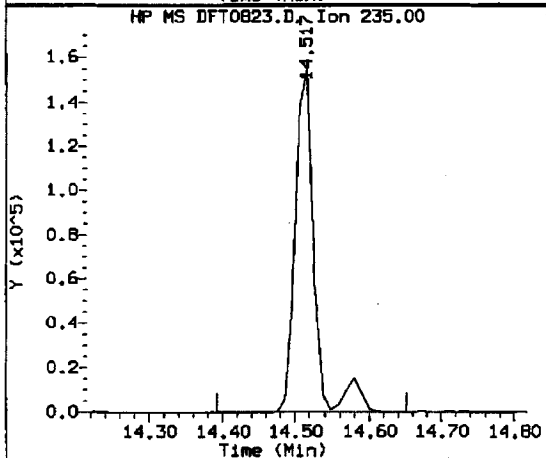
Mass	Area	Ratio
235	279863	100.00
237	14389	5.14
165	14503	5.18



Compound: 4,4'-DDT  
 Quant Mass: 235  
 RT: 15.201  
 Area: 1385762



Compound: 4,4'-DDE  
 Quant Mass: 246  
 RT: 13.740  
 Area: 11269



Compound: 4,4'-DDD  
 Quant Mass: 235  
 RT: 14.517  
 Area: 279863

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDD + DDE	291132	17.4	20.5	PASS

TestAmerica WestSacramento

Data file : \\sv5\c\chem\sv5.i\082310B.B\DFT0823.D  
 Lab Smp Id: DFTPP 50ug/ml  
 Inj Date : 23-AUG-2010 15:53  
 Operator : KT  
 Smp Info : DFTPP 50ug/ml;  
 Misc Info : 50ul DFTPP 10MSSV0129  
 Comment :  
 Method : \\SV5\C\chem\sv5.i\082310B.B\DFTPP.m  
 Meth Date : 17-Aug-2010 14:10 scotts  
 Cal Date :  
 Als bottle: 91  
 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											
				ON-COL		FINAL					
RT	EXP RT	REL RT	MASS	RESPONSE	( ug/L)	( ug/L)	TARGET RANGE	RATIO			
-----	-----	-----	-----	-----	-----	-----	-----	-----			
1 dftpp				CAS #: 5074-71-5							
11.076	11.201	( 0.000)	198	565824			0.00- 100.00	97.57			
11.076	11.201	( 0.000)	51	258112			30.00- 80.00	45.62			
11.076	11.201	( 0.000)	68	3325			0.00- 2.00	1.55			
11.076	11.201	( 0.000)	69	214592			0.00- 0.00	37.93			
11.076	11.201	( 0.000)	70	1011			0.00- 2.00	0.47			
11.076	11.201	( 0.000)	127	296832			25.00- 75.00	52.46			
11.076	11.201	( 0.000)	197	0	0.0	0.0	0.00- 1.00	0.00			
11.076	11.201	( 0.000)	199	35776			5.00- 9.00	6.32			
11.076	11.201	( 0.000)	275	130800			10.00- 30.00	23.12			
11.076	11.201	( 0.000)	365	18712			0.75- 0.00	3.31			
11.076	11.201	( 0.000)	441	86976			0.01- 99.99	79.39			
11.076	11.201	( 0.000)	442	579904			40.00- 110.00	102.49			
11.076	11.201	( 0.000)	443	109560			15.00- 24.00	18.89			



Date : 23-AUG-2010 15:53

Client ID:

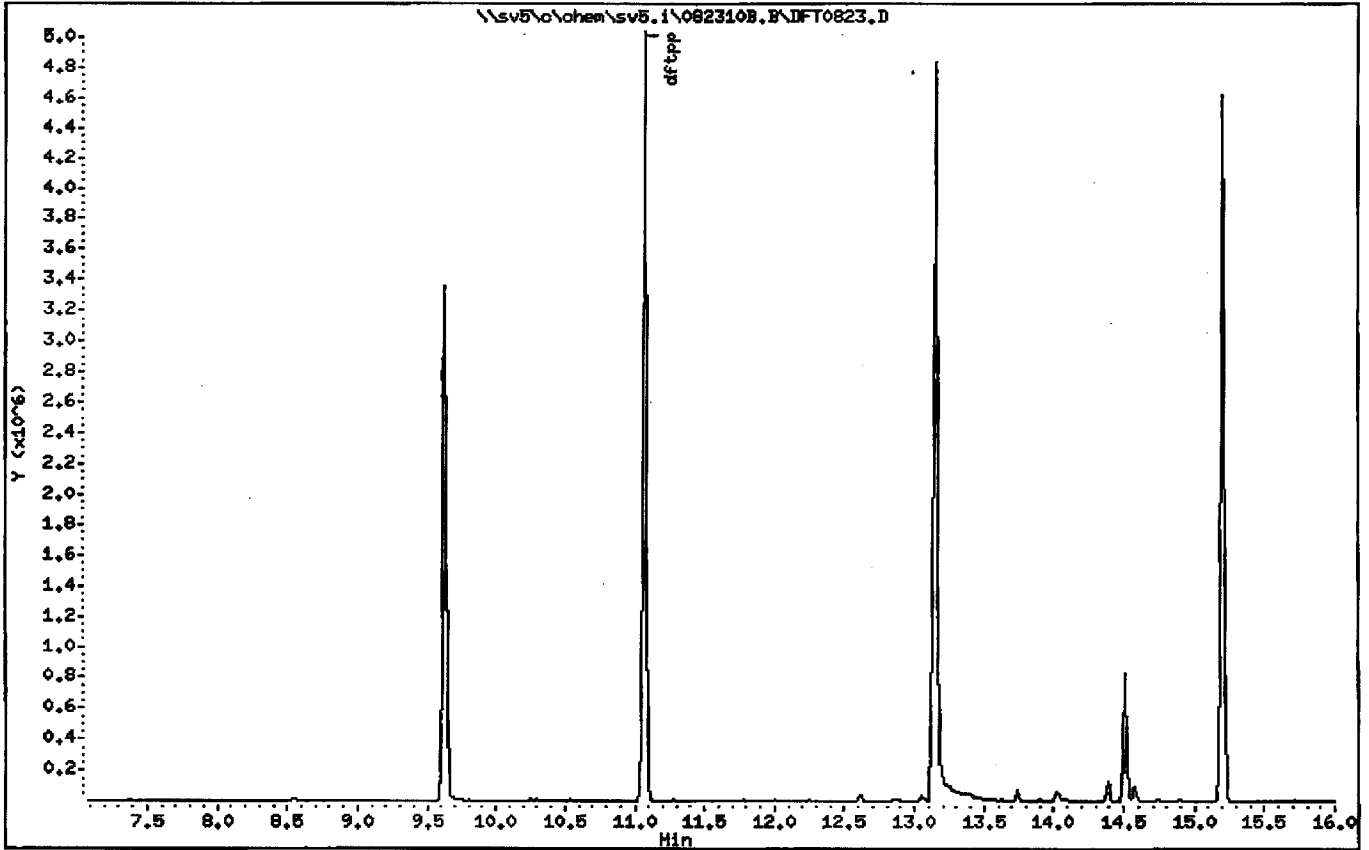
Instrument: sv5.1

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phases:

Column diameter: 2.00



Date : 23-AUG-2010 15:53

Client ID:

Instrument: sv5.i

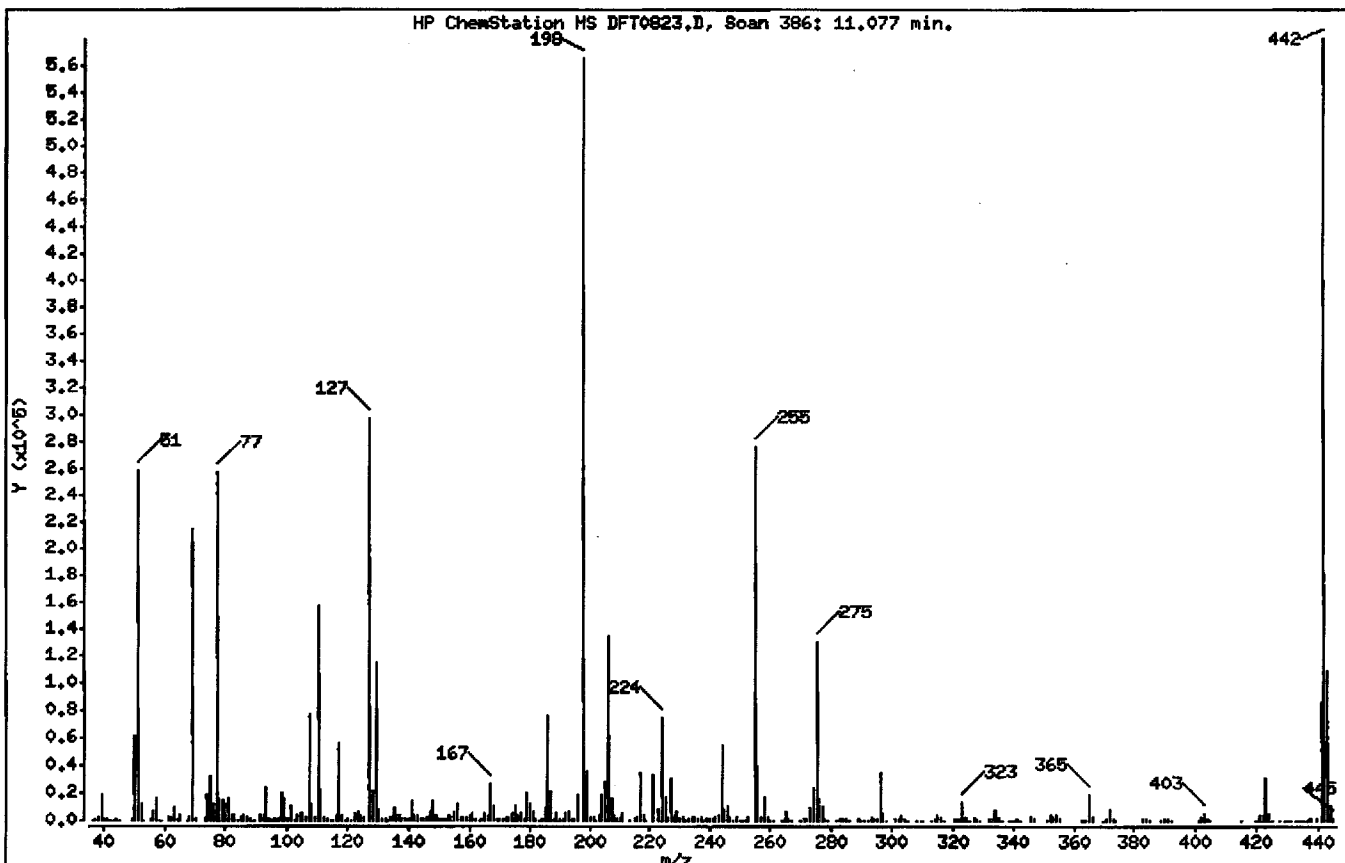
Sample Info: DFTPP 50ug/ml;

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	45.62
68	Less than 2.00% of mass 69	0.59 ( 1.55)
69	Mass 69 relative abundance	37.93
70	Less than 2.00% of mass 69	0.18 ( 0.47)
127	25.00 - 75.00% of mass 198	52.46
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.32
275	10.00 - 30.00% of mass 198	23.12
365	Greater than 0.75% of mass 198	3.31
441	Present, but less than mass 443	15.37
442	40.00 - 110.00% of mass 198	102.49
443	15.00 - 24.00% of mass 442	19.36 ( 18.89)

Date : 23-AUG-2010 15:53

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0823.D  
Spectrum: HP ChemStation MS DFT0823.D, Scan 386: 11.077 min.  
Location of Maximum: 442.00  
Number of points: 327

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	395	128.10	21664	211.10	5563	310.10	512
37.00	698	129.00	114328	213.10	446	313.10	400
38.00	2559	130.00	8455	215.10	1555	314.00	1633
39.10	18040	131.00	1380	216.00	2763	315.00	4369
40.00	1021	132.00	754	217.00	34232	316.00	2372
41.10	887	132.70	505	218.00	3859	317.10	473
42.00	206	134.00	2664	219.00	373	321.00	1388
43.10	328	138.00	9182	221.10	33248	322.10	1081
44.00	911	136.00	3578	223.00	8572	323.10	13011
45.00	273	137.00	4603	224.10	75136	324.10	2495
49.10	1869	137.70	729	225.10	16712	325.10	203
50.10	60816	139.00	828	226.10	2009	325.80	428
51.10	258112	140.00	1509	227.00	30752	327.00	2183
52.10	12588	141.00	14299	228.10	4165	328.00	1285
53.10	584	142.00	4637	229.00	6225	329.20	256
55.00	1386	143.00	3397	230.10	1056	332.00	970
56.00	6366	144.00	825	231.00	2886	333.00	1150
57.00	16244	145.00	1124	232.00	383	334.10	8526
58.10	651	146.00	2627	233.10	710	335.00	2373
59.00	277	147.00	6455	234.00	2007	336.00	272
61.00	2616	148.00	14957	235.00	2024	338.90	251
62.00	3003	149.00	3841	236.10	1484	340.00	273
63.10	9068	150.10	851	237.00	2467	341.10	1590
64.00	1229	151.10	1870	238.00	378	342.10	404
65.10	4379	152.10	937	239.00	1270	346.00	2556
67.20	292	153.10	4462	240.00	1085	347.00	689
68.00	3325	154.00	2940	241.10	1674	351.00	383
69.00	214592	155.10	7249	242.00	3075	352.10	4088
70.00	1011	156.10	11592	243.10	3748	353.10	2915
73.10	1476	157.10	2518	244.10	54480	354.10	4316
74.00	18800	157.90	2442	245.10	8272	355.10	838
75.00	31776	159.10	2272	246.10	10017	362.30	228
76.10	11936	160.00	4295	247.00	2062	362.90	209
77.10	256832	161.00	5795	247.90	469	363.80	364
78.10	15473	162.10	1648	249.00	2296	365.00	18712

Date : 23-AUG-2010 15:53

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml:

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0823.D  
 Spectrum: HP ChemStation MS DFT0823.D, Scan 386: 11.077 min.  
 Location of Maximum: 442.00  
 Number of points: 327

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	14470	163.00	386	250.20	568	366.00	2172
80.00	11570	164.00	1015	251.00	625	369.90	347
81.00	16007	165.00	4997	252.00	554	371.10	1281
82.00	4047	166.10	4120	253.00	2062	372.10	7448
83.00	4205	167.10	27120	255.00	276032	373.00	1781
84.00	610	168.00	11313	256.00	39828	374.10	310
85.00	2688	169.00	1815	257.00	3306	383.00	1607
86.00	4371	170.10	865	258.00	16962	384.00	768
87.00	2386	171.00	983	259.00	2790	385.00	354
88.10	778	172.00	2515	260.10	601	388.90	222
89.00	313	173.00	2882	261.00	627	390.10	1213
91.00	3884	174.10	4879	264.10	601	391.00	784
92.00	3476	175.10	10661	265.00	6909	392.10	289
93.00	24256	176.00	3906	266.10	1092	401.00	377
94.10	1453	177.00	4868	267.00	248	402.00	3249
95.00	537	178.10	1948	270.10	434	403.00	5155
96.10	1019	179.00	20160	271.00	844	404.00	1841
96.90	708	180.10	12540	272.10	1057	405.00	389
98.00	19464	181.10	6908	273.10	9854	414.90	372
99.00	15811	182.00	1232	274.00	23392	419.70	249
100.00	1381	183.00	387	275.10	130800	421.00	4351
101.00	10382	184.00	1656	276.00	16282	422.00	3751
102.20	356	185.10	9843	277.00	11281	423.00	30960
103.00	3350	186.10	75592	278.00	1923	424.00	5463
104.00	5846	187.10	20696	279.00	405	425.00	591
105.00	5729	188.10	1965	281.90	260	427.80	262
106.00	2041	189.00	4826	283.10	1466	429.30	355
107.00	77104	190.00	853	284.00	854	430.00	251
108.00	11537	191.00	1665	285.00	1904	430.50	434
109.00	2094	192.00	5956	286.10	352	431.30	227
110.00	156928	193.10	6678	289.00	741	432.70	293
111.00	22480	194.00	1731	290.00	532	433.30	348
112.00	2449	195.10	1055	291.10	277	434.10	436
113.00	904	196.00	18736	291.90	568	435.10	453
114.10	251	198.00	565824	293.10	2231	435.50	550

Date : 23-AUG-2010 15:53

Client ID:

Instrument: sv5.i

Sample Info: DFTPP 50ug/ml;

Operator: KT

Column phase:

Column diameter: 2.00

Data File: DFT0823.D

Spectrum: HP ChemStation MS DFT0823.D, Scan 386: 11.077 min.

Location of Maximum: 442.00

Number of points: 327

m/z	Y	m/z	Y	m/z	Y	m/z	Y
115.00	577	199.00	35776	294.00	850	436.20	547
116.00	4000	200.00	2901	295.00	964	436.60	510
117.00	55864	201.50	3153	296.00	35192	437.20	690
118.00	3531	202.20	632	297.00	4712	437.80	981
119.10	513	203.10	3715	298.00	391	439.30	835
120.00	774	204.10	19024	301.10	669	439.70	889
121.00	386	205.10	28656	302.00	882	441.00	86976
122.00	5122	206.10	134336	303.10	4553	442.00	579904
123.00	7261	207.10	16145	304.10	1548	443.00	109560
124.00	4149	208.00	4097	305.10	274	444.00	10242
125.00	3296	209.00	1191	308.00	572	445.00	684
127.00	296832	210.10	2158	309.10	315		

TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823A.D  
 Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 16:40  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 16:08 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:45 Cal File: AP90817A.D  
 Als bottle: 92 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4		152	4.184	4.184	(1.000)	91148	40.0000	
* 2 Naphthalene-d8		136	5.604	5.604	(1.000)	397203	40.0000	
* 3 Acenaphthene-d10		164	7.718	7.718	(1.000)	207096	40.0000	
* 4 Phenanthrene-d10		188	9.697	9.697	(1.000)	320757	40.0000	
* 5 Chrysene-d12		240	14.122	14.122	(1.000)	307293	40.0000	
* 6 Perylene-d12		264	16.516	16.516	(1.000)	324529	40.0000	
\$ 7 2-Fluorophenol		112	2.961	2.961	(0.708)	15987	5.00000	4.743
\$ 8 Phenol-d5		99	3.821	3.821	(0.913)	20363	5.00000	4.716
\$ 9 2-Chlorophenol-d4		132	3.977	3.977	(0.950)	17625	5.00000	4.840
\$ 10 1,2-Dichlorobenzene-d4		152	4.391	4.391	(1.050)	11545	5.00000	5.095
\$ 11 Nitrobenzene-d5		82	4.816	4.816	(0.859)	17021	5.00000	4.802 (M)
\$ 12 2-Fluorobiphenyl		172	6.909	6.909	(0.895)	32778	5.00000	5.001 (M)
\$ 13 2,4,6-Tribromophenol		330	8.744	8.744	(1.133)	3453	5.00000	4.262
\$ 14 Terphenyl-d14		244	12.340	12.340	(0.874)	29315	5.00000	4.930
15 N-Nitrosodimethylamine		74	1.935	1.935	(0.463)	11039	5.00000	4.758
16 Pyridine		79	1.966	1.966	(0.470)	19854	5.00000	5.165
23 Aniline		93	3.883	3.883	(0.928)	25614	5.00000	4.738
24 Phenol		94	3.831	3.831	(0.916)	21490	5.00000	4.729
26 Bis(2-chloroethyl) ether		93	3.945	3.945	(0.943)	16784	5.00000	4.829
27 2-Chlorophenol		128	3.997	3.997	(0.955)	17412	5.00000	4.836
28 1,3-Dichlorobenzene		146	4.153	4.153	(0.993)	19814	5.00000	4.988
29 1,4-Dichlorobenzene		146	4.205	4.205	(1.005)	18980	5.00000	4.716
30 Benzyl Alcohol		108	4.339	4.339	(1.037)	11898	5.00000	4.817
31 1,2-Dichlorobenzene		146	4.401	4.401	(1.052)	19252	5.00000	5.066
32 2-Methylphenol		108	4.474	4.474	(1.069)	15756	5.00000	4.644
33 2,2'-oxybis(1-Chloropropane)		45	4.526	4.526	(1.082)	32447	5.00000	4.900
34 4-Methylphenol		108	4.629	4.629	(1.106)	16316	5.00000	4.517
36 Hexachloroethane		117	4.733	4.733	(1.131)	7068	5.00000	4.986
37 N-Nitrosodipropylamine		70	4.671	4.671	(1.116)	12484	5.00000	4.911
42 Nitrobenzene		77	4.837	4.837	(0.863)	17983	5.00000	5.090
44 Isophorone		82	5.096	5.096	(0.909)	32841	5.00000	4.897
45 2-Nitrophenol		139	5.199	5.199	(0.928)	8465	5.00000	4.455
46 2,4-Dimethylphenol		107	5.230	5.230	(0.933)	17379	5.00000	4.880

*5/14/08/24/10*

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	18999	5.00000	4.768
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	12803	5.00000	4.932
50 Benzoic Acid	122	5.282	5.282	(0.943)	8004	5.00000	6.346
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	14409	5.00000	5.127
52 Naphthalene	128	5.624	5.624	(1.004)	55807	5.00000	5.048 (M)
54 4-Chloroaniline	127	5.718	5.718	(1.020)	21627	5.00000	5.503 (M)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	6814	5.00000	5.116
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	14034	5.00000	4.652
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	32784	5.00000	4.858
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	7599	5.00000	4.789
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	6648	5.00000	4.258 (M)
70 2,4,5-Trichlorophenol	196	6.847	6.847	(0.887)	7992	5.00000	4.698 (M)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	29428	5.00000	5.095
73 2-Nitroaniline	65	7.179	7.179	(0.930)	9276	5.00000	4.700
76 Dimethylphthalate	163	7.459	7.459	(0.966)	32438	5.00000	4.851
77 Acenaphthylene	152	7.521	7.521	(0.974)	47334	5.00000	4.669
79 2,6-Dinitrotoluene	165	7.531	7.531	(0.976)	6502	5.00000	4.347 (M)
80 3-Nitroaniline	138	7.687	7.687	(0.996)	9193	5.00000	4.636
81 Acenaphthene	153	7.749	7.749	(1.004)	31423	5.00000	4.868
82 2,4-Dinitrophenol	184	7.811	7.811	(1.012)	3066	5.00000	6.058 (M)
83 Dibenzofuran	168	7.946	7.946	(1.030)	42649	5.00000	5.006
84 4-Nitrophenol	109	7.894	7.894	(1.023)	3822	5.00000	4.320
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	8655	5.00000	5.933
91 Fluorene	166	8.391	8.391	(1.087)	33483	5.00000	4.794
92 Diethylphthalate	149	8.350	8.350	(1.082)	36351	5.00000	5.186
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	14593	5.00000	5.089
94 4-Nitroaniline	138	8.464	8.464	(1.097)	8698	5.00000	4.440
97 4,6-Dinitro-2-methylphenol	198	8.526	8.526	(0.879)	3873	5.00000	6.074
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	29759	5.86000	5.926
100 Azobenzene	77	8.609	8.609	(0.888)	34137	5.00000	4.818
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	7284	5.00000	4.733
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	8191	5.00000	4.924
110 Pentachlorophenol	266	9.521	9.521	(0.982)	4282	5.00000	4.156
114 Phenanthrene	178	9.728	9.728	(1.003)	48882	5.00000	4.868
115 Anthracene	178	9.790	9.790	(1.010)	48108	5.00000	4.761
118 Carbazole	167	10.060	10.060	(1.037)	44562	5.00000	4.719
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	50710	5.00000	4.435
126 Fluoranthene	202	11.624	11.624	(1.199)	41793	5.00000	4.605
127 Benzidine	184	11.884	11.884	(0.841)	26818	5.00000	5.356
128 Pyrene	202	11.987	11.987	(0.849)	47347	5.00000	4.963
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	22191	5.00000	5.992
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	22139	5.00000	4.484
138 Benzo(a)Anthracene	228	14.091	14.091	(0.998)	39402	5.00000	4.850
139 Chrysene	228	14.163	14.163	(1.003)	42571	5.00000	5.065
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	13228	5.00000	4.479
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.022)	30835	5.00000	4.518
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	45950	5.00000	5.880
144 Benzo(b)fluoranthene	252	15.925	15.925	(0.964)	33424	5.00000	4.338
145 Benzo(k)fluoranthene	252	15.967	15.967	(0.967)	44835	5.00000	4.963
147 Benzo(e)pyrene	252	16.350	16.350	(0.990)	36134	5.00000	4.731
148 Benzo(a)pyrene	252	16.433	16.433	(0.995)	39312	5.00000	4.663
151 Indeno(1,2,3-cd)pyrene	276	18.257	18.257	(1.105)	32667	5.00000	4.558 (M)
152 Dibenzo(a,h)anthracene	278	18.319	18.319	(1.109)	34423	5.00000	4.501
153 Benzo(g,h,i)perylene	276	18.734	18.734	(1.134)	39032	5.00000	4.780

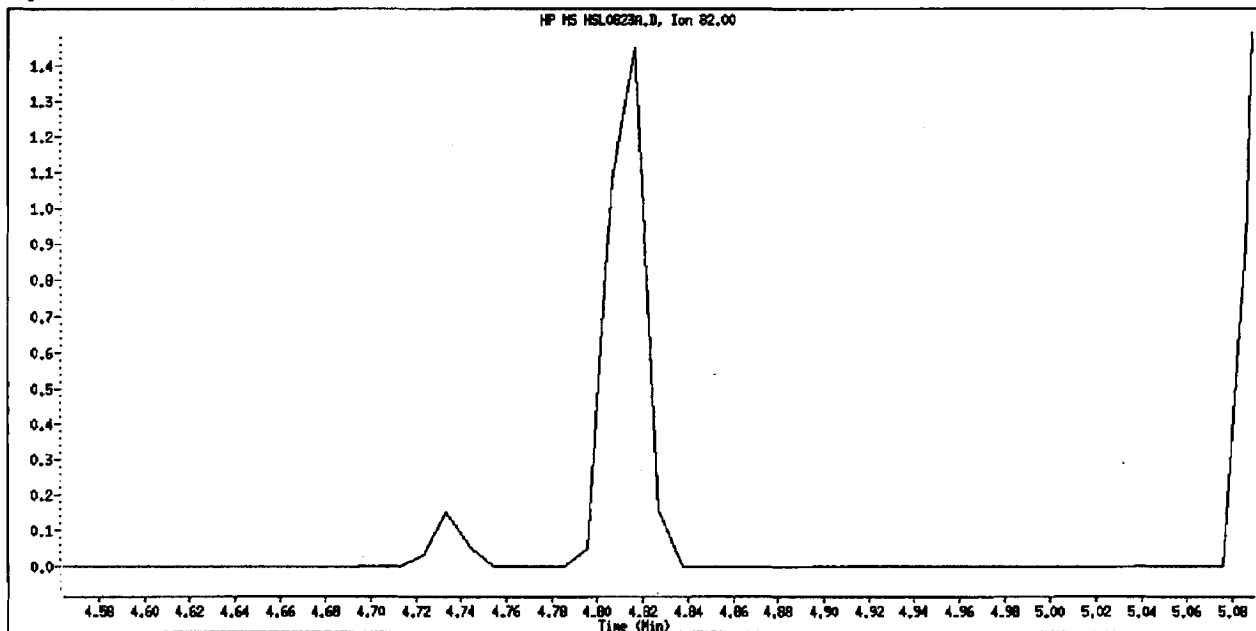
Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
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M 162 benzo b,k Fluoranthene Totals	252				78259	5.00000	

QC Flag Legend

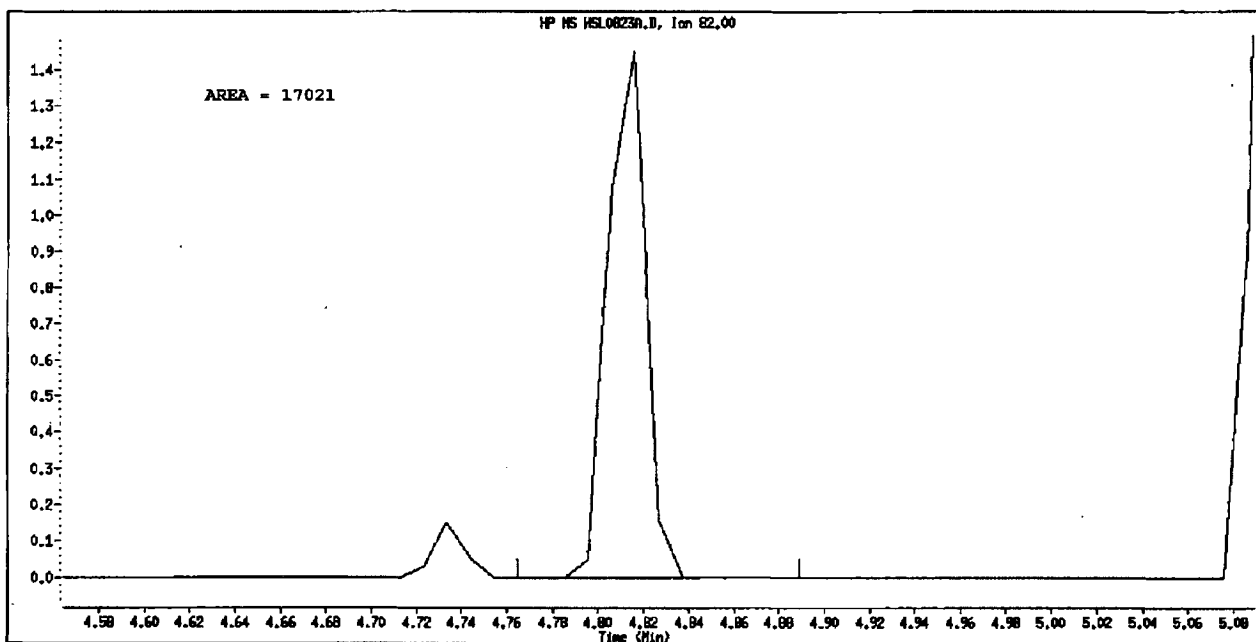
M - Compound response manually integrated.



Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Nitrobenzene-d5  
CAS #: 4165-60-0  
Report Date: 08/24/2010



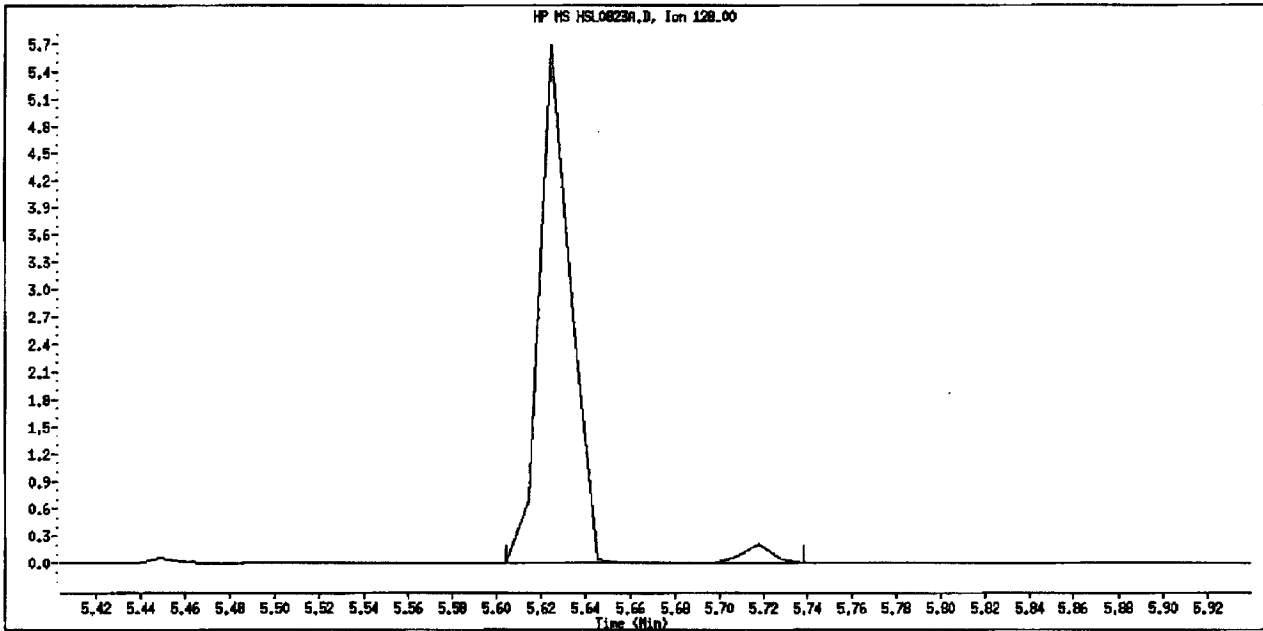
Original Integration



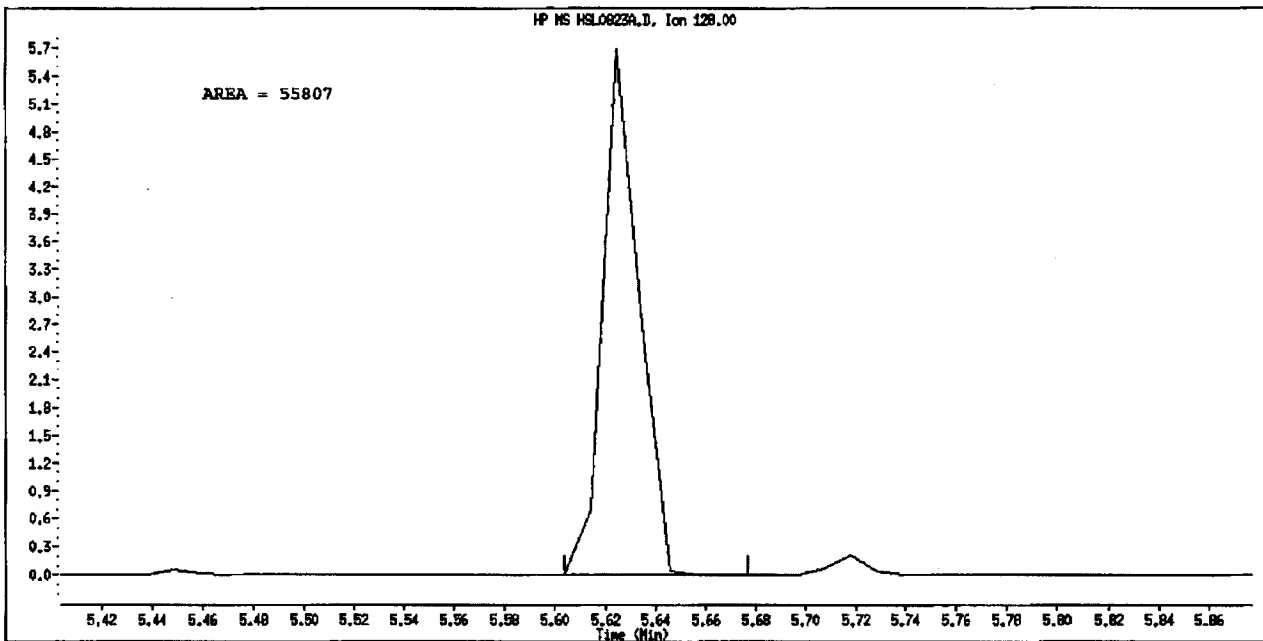
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Peak Not Found

Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Naphthalene  
CAS #: 91-20-3  
Report Date: 08/24/2010



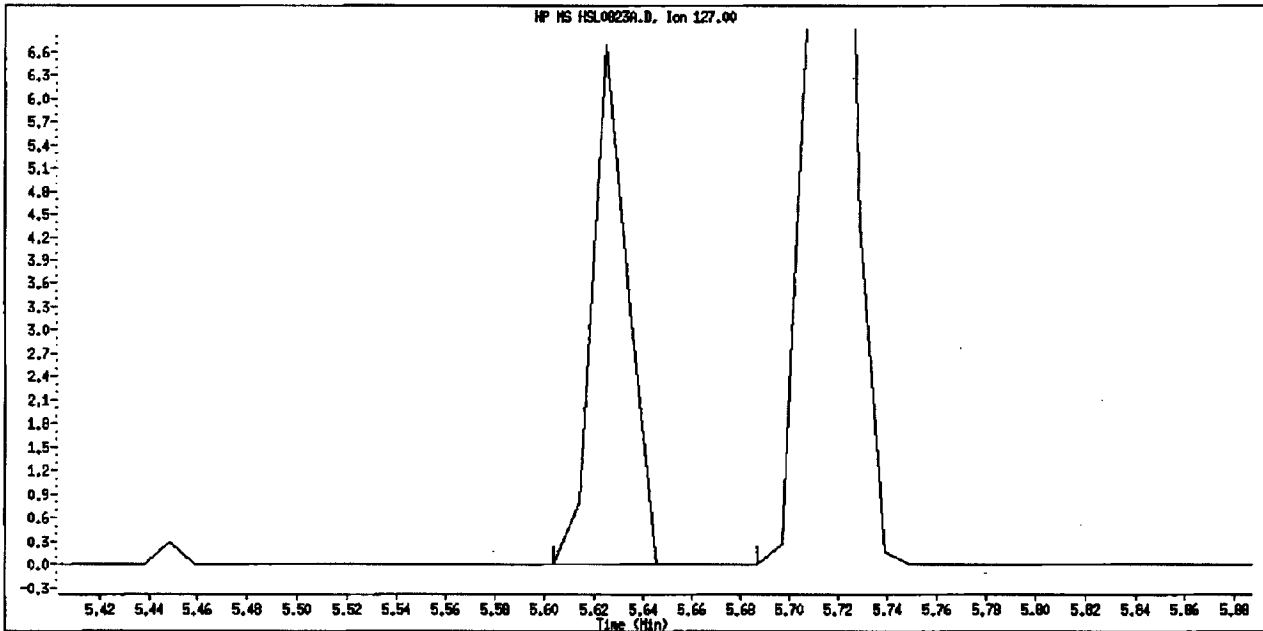
Original Integration



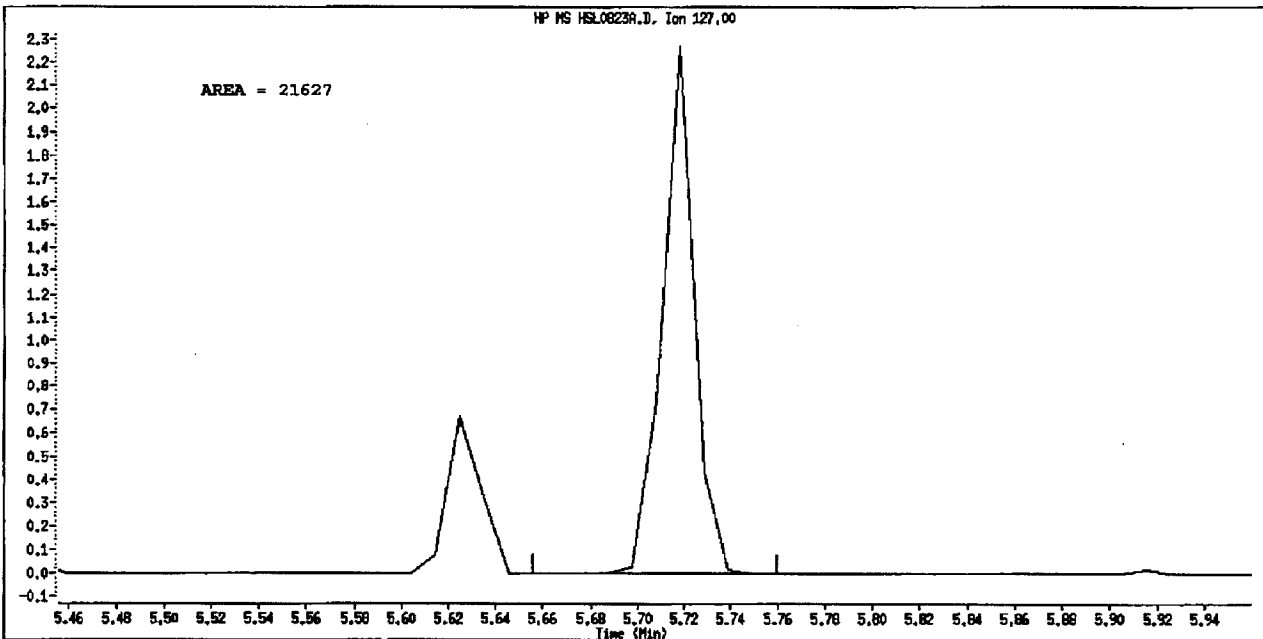
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.i  
Client ID: 8270P.M  
Compound Name: 4-Chloroaniline  
CAS #: 106-47-8  
Report Date: 08/24/2010



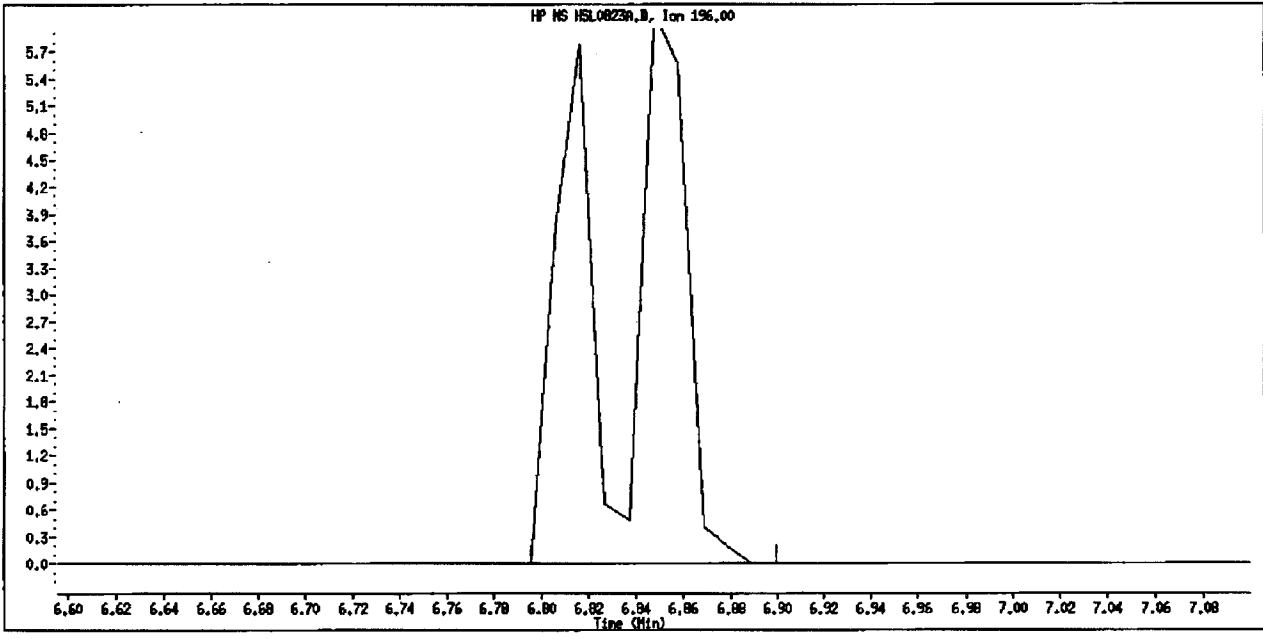
Original Integration



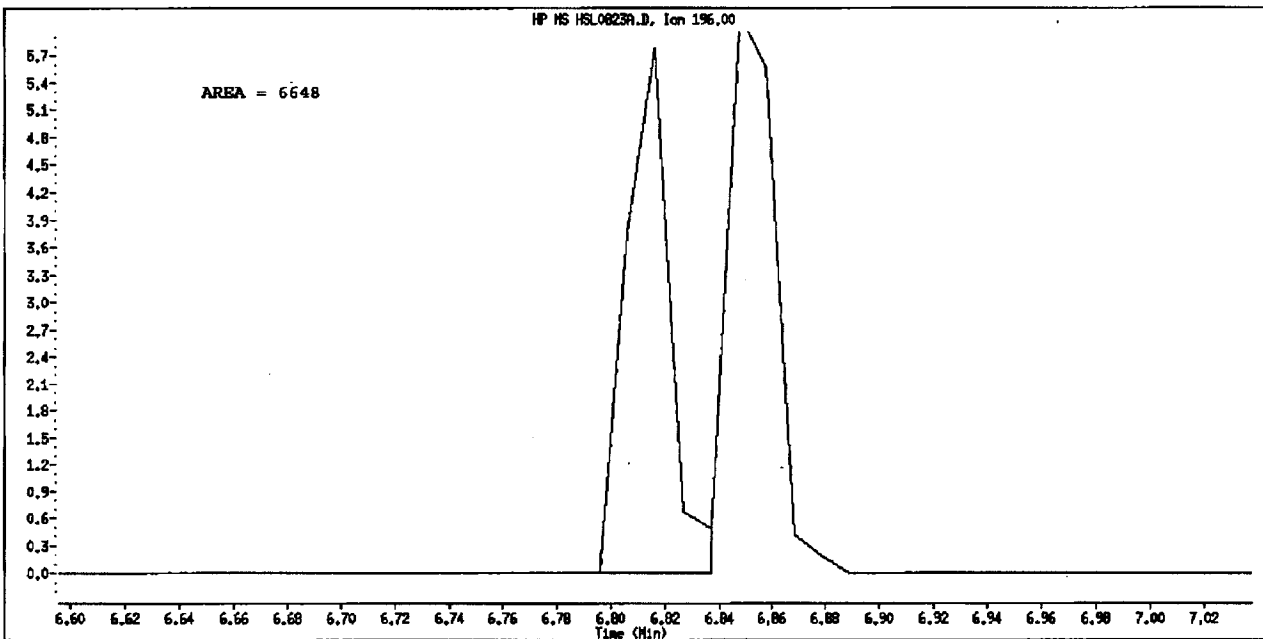
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Wrong Peak

Data File Name: HSL0823A.D  
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Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,6-Trichlorophenol  
CAS #: 88-06-2  
Report Date: 08/24/2010



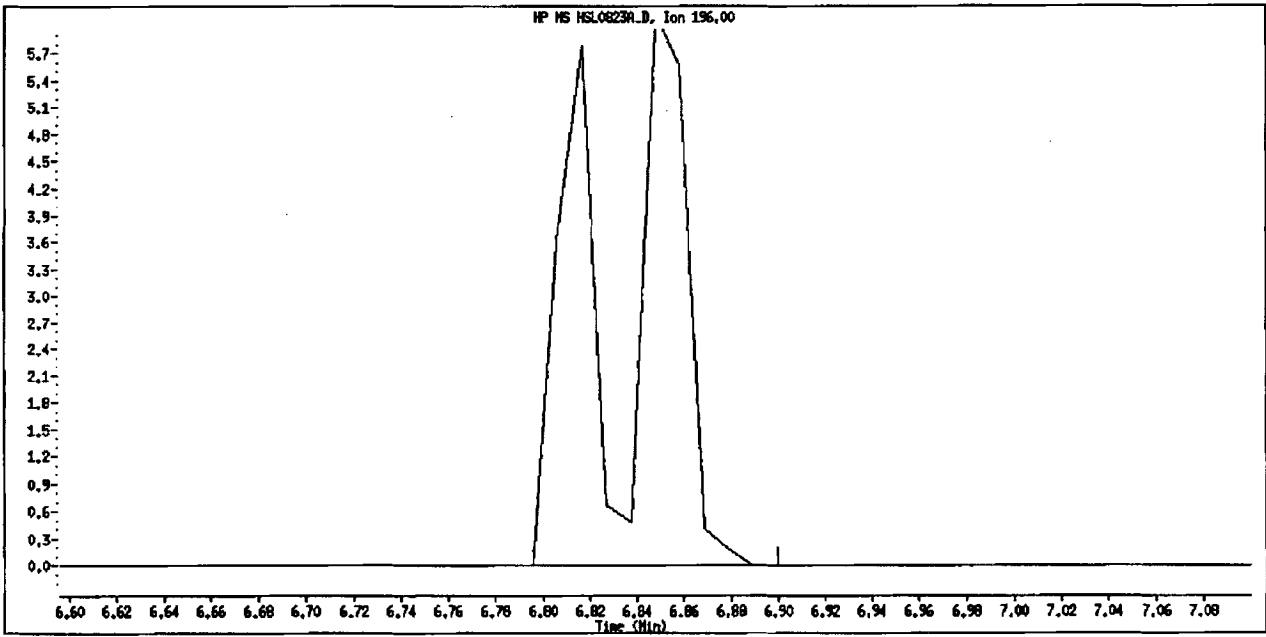
Original Integration



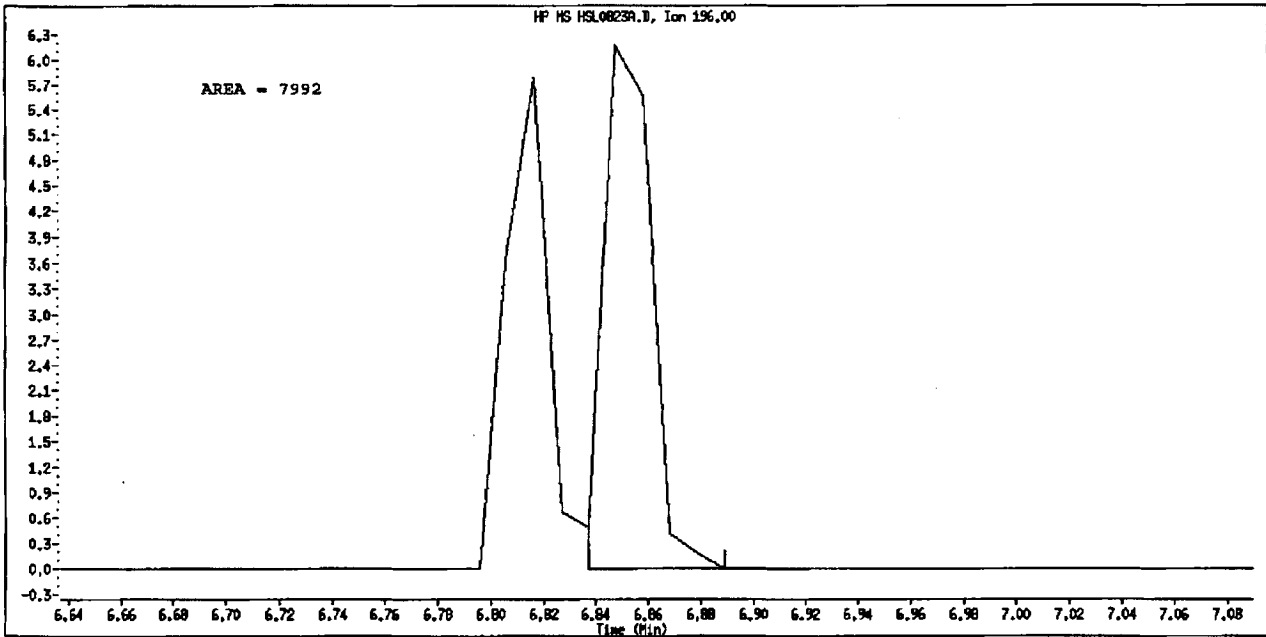
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

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Inj. Date and Time: 23-ADG-2010 16:40  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,5-Trichlorophenol  
CAS #: 95-95-4  
Report Date: 08/24/2010



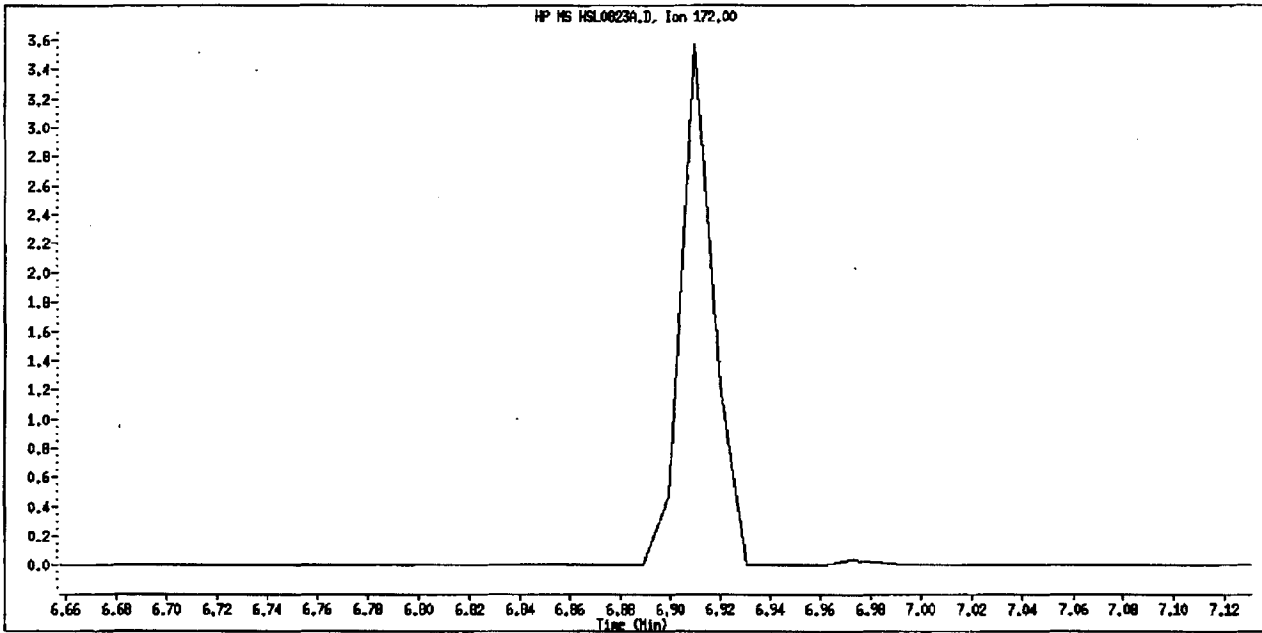
Original Integration



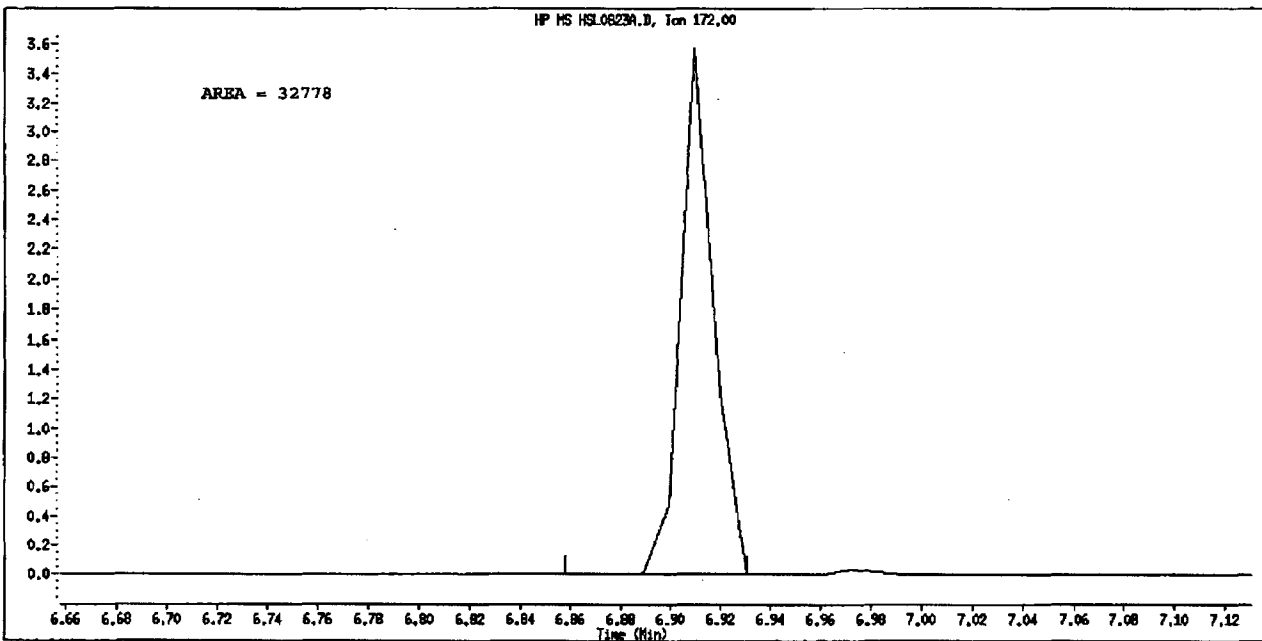
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Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823A.D  
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Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2-Fluorobiphenyl  
CAS #: 321-60-8  
Report Date: 08/24/2010



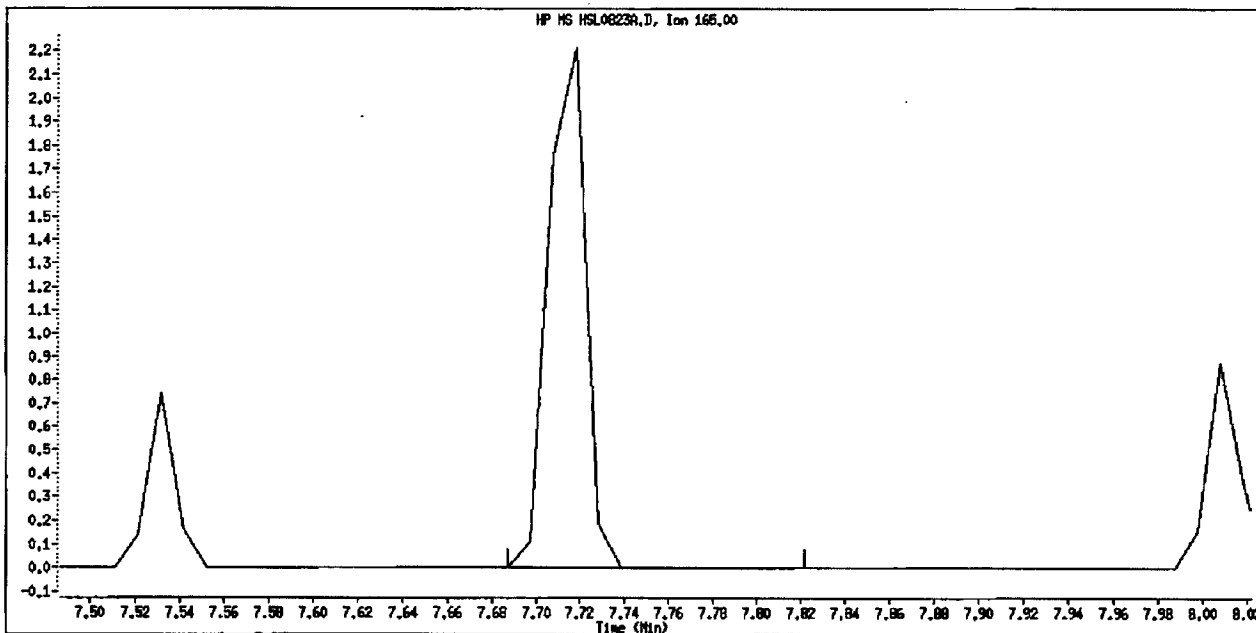
Original Integration



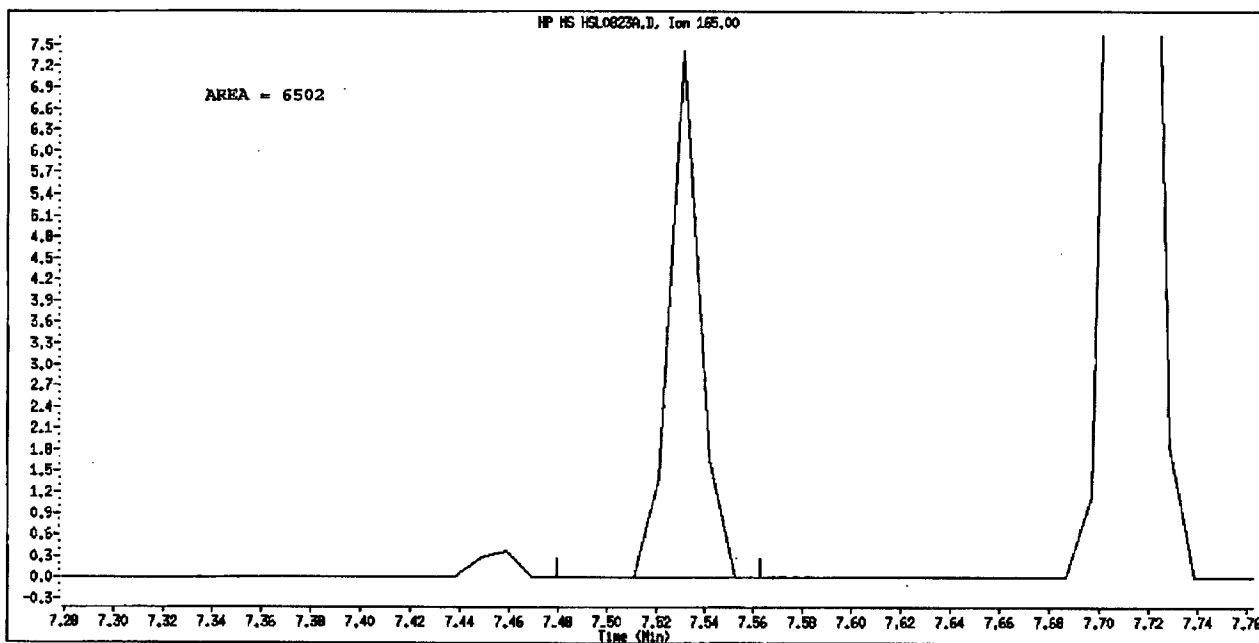
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Peak Not Found

Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 08/24/2010



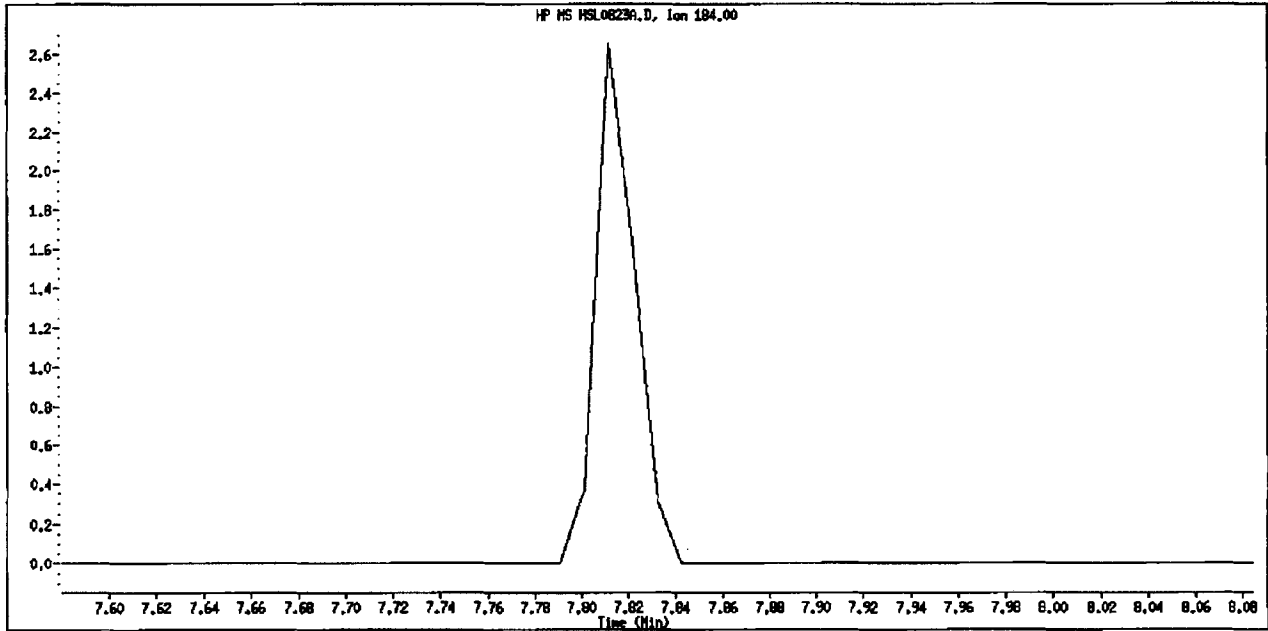
Original Integration



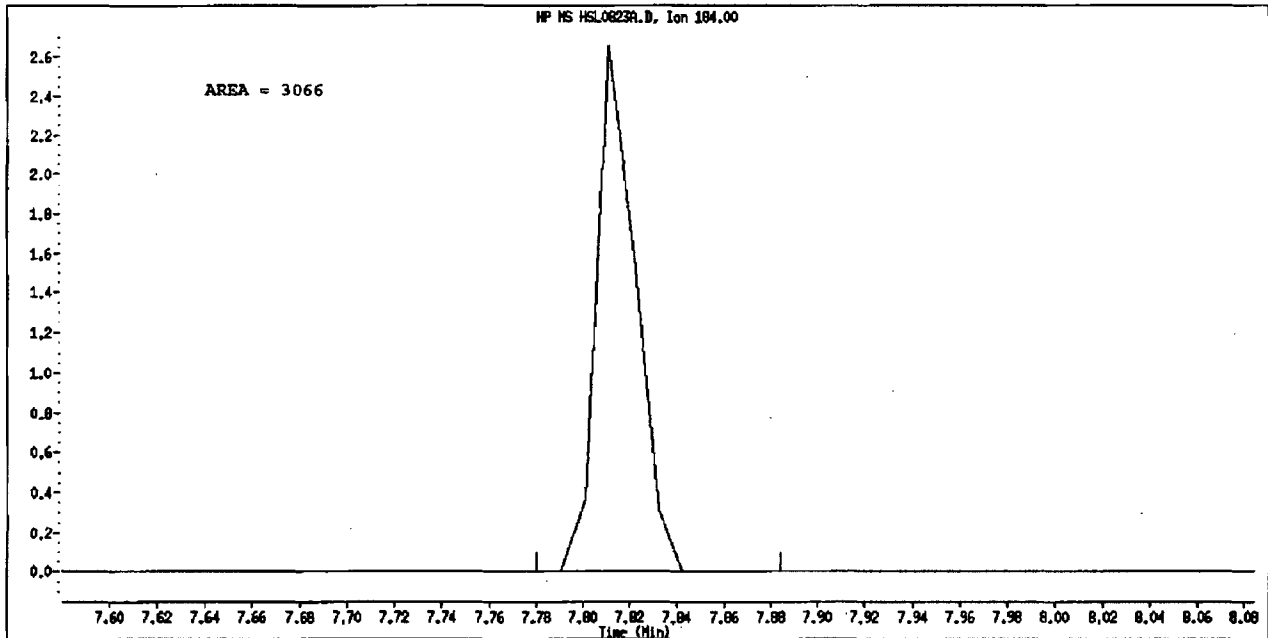
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Wrong Peak

Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4-Dinitrophenol  
CAS #: 51-28-5  
Report Date: 08/24/2010



Original Integration

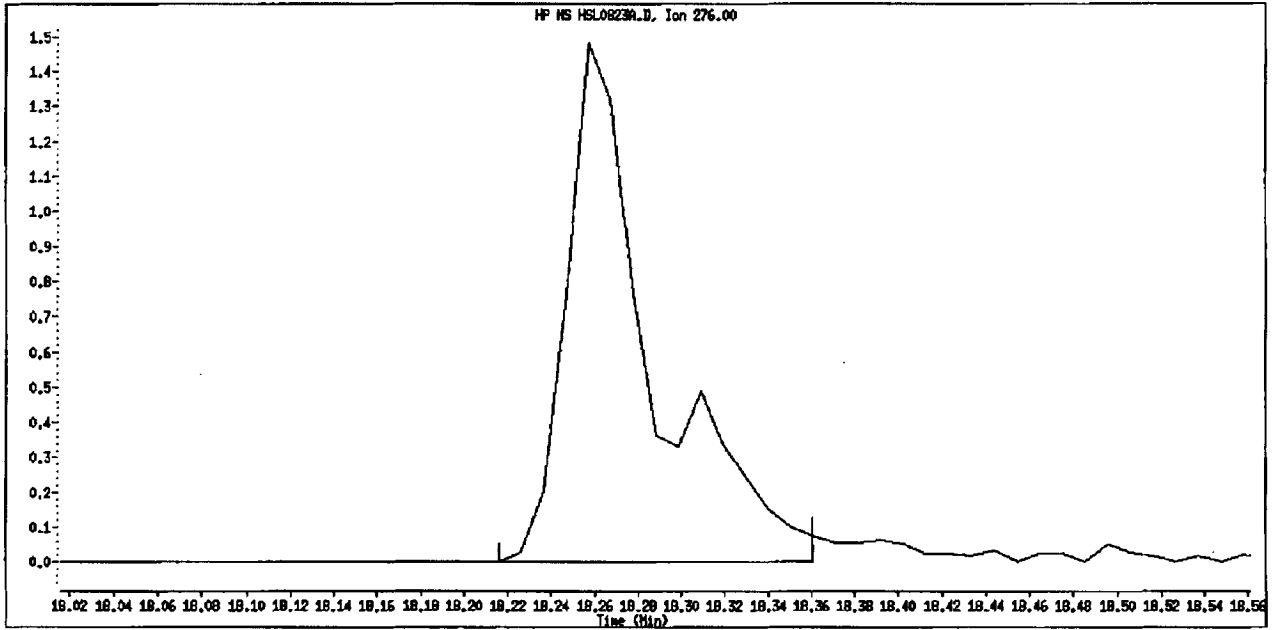


Manual Integration

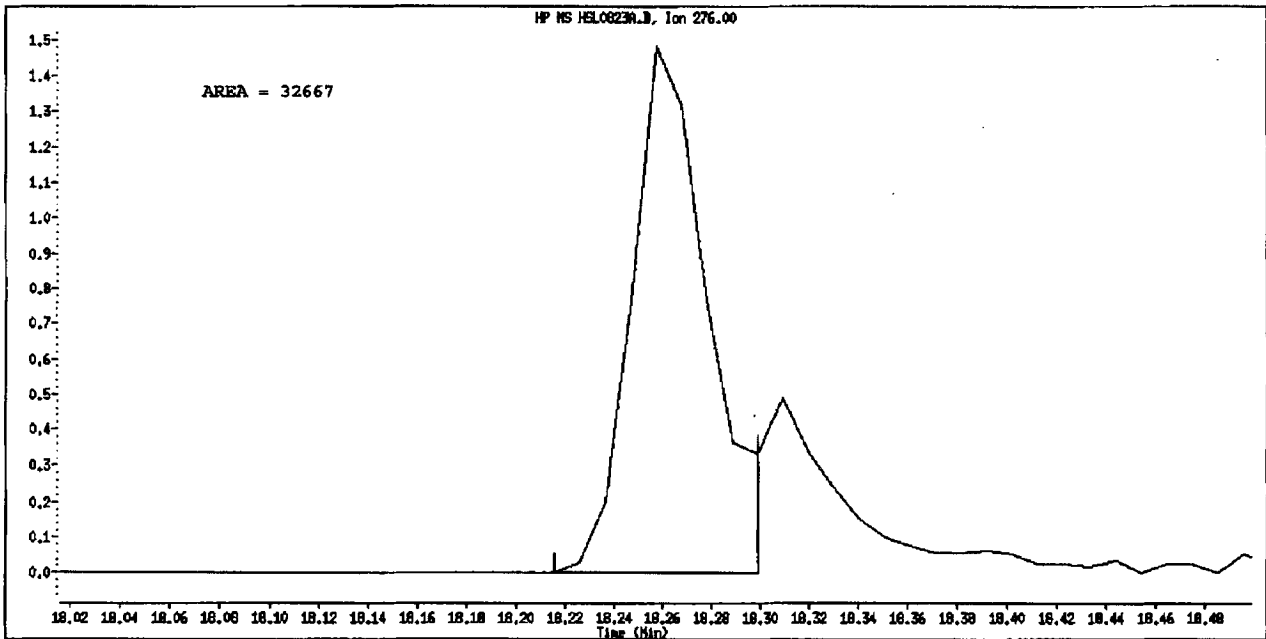
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Manual Integration Reason: Peak Not Found



Data File Name: HSL0823A.D  
Inj. Date and Time: 23-AUG-2010 16:40  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823A.D  
 Lab Smp Id: HSL 005 ug/ml CS-1 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 16:40  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 16:02 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:45 Cal File: AP90817A.D  
 Cal bottle: 92 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		
						CAL-AMT ( NG)	ON-COL ( NG)	
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	91148	40.0000		
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	397203	40.0000		
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	207096	40.0000		
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	320757	40.0000		
* 5 Chrysene-d12	240	14.122	14.122	(1.000)	307293	40.0000		
* 6 Perylene-d12	264	16.516	16.516	(1.000)	324529	40.0000		
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	15987	5.00000	4.743	
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	20363	5.00000	4.716	
\$ 9 2-Chlorophenol-d4	132	3.977	3.977	(0.950)	17625	5.00000	4.840	
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	11545	5.00000	5.095	
\$ 11 Nitrobenzene-d5	82	Compound Not Detected.						
\$ 12 2-Fluorobiphenyl	172	Compound Not Detected.						
\$ 13 2,4,6-Tribromophenol	330	8.744	8.744	(1.133)	3453	5.00000	4.262	
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.874)	29315	5.00000	4.930	
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	11039	5.00000	4.758	
16 Pyridine	79	1.966	1.966	(0.470)	19854	5.00000	5.165	
23 Aniline	93	3.883	3.883	(0.928)	25614	5.00000	4.738	
24 Phenol	94	3.831	3.831	(0.916)	21490	5.00000	4.729	
26 Bis(2-chloroethyl) ether	93	3.945	3.945	(0.943)	16784	5.00000	4.829	
27 2-Chlorophenol	128	3.997	3.997	(0.955)	17412	5.00000	4.836	
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	19814	5.00000	4.988	
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	18980	5.00000	4.716	
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	11898	5.00000	4.817	
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	19252	5.00000	5.066	
32 2-Methylphenol	108	4.474	4.474	(1.069)	15756	5.00000	4.644	
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	32447	5.00000	4.900	
34 4-Methylphenol	108	4.629	4.629	(1.106)	16316	5.00000	4.517	
36 Hexachloroethane	117	4.733	4.733	(1.131)	7068	5.00000	4.986	
37 N-Nitrosodimethylamine	70	4.671	4.671	(1.116)	12484	5.00000	4.911	
42 Nitrobenzene	77	4.837	4.837	(0.863)	17983	5.00000	5.090	
44 Isophorone	82	5.096	5.096	(0.909)	32841	5.00000	4.897	
45 2-Nitrophenol	139	5.199	5.199	(0.928)	8465	5.00000	4.455	
46 2,4-Dimethylphenol	107	5.230	5.230	(0.933)	17379	5.00000	4.880	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		
						CAL-AMT ( NG)	ON-COL ( NG)	
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	18999	5.00000	4.768	
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	12803	5.00000	4.932	
50 Benzoic Acid	122	5.282	5.282	(0.943)	8004	5.00000	6.346	
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	14409	5.00000	5.127	
52 Naphthalene	128	5.624	5.624	(1.004)	57827	5.00000	5.204	
54 4-Chloroaniline	127	5.624	5.624	(1.004)	6587	5.00000	1.882	
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	6814	5.00000	5.116	
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	14034	5.00000	4.652	
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	32784	5.00000	4.858	
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	7599	5.00000	4.789	
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	14320	5.00000	8.043	
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	14320	5.00000	7.609	
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	29428	5.00000	5.095	
73 2-Nitroaniline	65	7.179	7.179	(0.930)	9276	5.00000	4.700	
76 Dimethylphthalate	163	7.459	7.459	(0.966)	32438	5.00000	4.851	
77 Acenaphthylene	152	7.521	7.521	(0.974)	47334	5.00000	4.669	
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	26534	5.00000	12.83	
80 3-Nitroaniline	138	7.687	7.687	(0.996)	9193	5.00000	4.636	
81 Acenaphthene	153	7.749	7.749	(1.004)	31423	5.00000	4.868	
82 2,4-Dinitrophenol	184	Compound Not Detected.						
83 Dibenzofuran	168	7.946	7.946	(1.030)	42649	5.00000	5.006	
84 4-Nitrophenol	109	7.894	7.894	(1.023)	3822	5.00000	4.320	
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	8655	5.00000	5.933	
91 Fluorene	166	8.391	8.391	(1.087)	33483	5.00000	4.794	
92 Diethylphthalate	149	8.350	8.350	(1.082)	36351	5.00000	5.186	
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	14593	5.00000	5.089	
94 4-Nitroaniline	138	8.464	8.464	(1.097)	8698	5.00000	4.440	
97 4,6-Dinitro-2-methylphenol	198	8.526	8.526	(0.879)	3873	5.00000	6.074	
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	29759	5.86000	5.926	
100 Azobenzene	77	8.609	8.609	(0.888)	34137	5.00000	4.818	
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	7284	5.00000	4.733	
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	8191	5.00000	4.924	
110 Pentachlorophenol	266	9.521	9.521	(0.982)	4282	5.00000	4.156	
114 Phenanthrene	178	9.728	9.728	(1.003)	48882	5.00000	4.868	
115 Anthracene	178	9.790	9.790	(1.010)	48108	5.00000	4.761	
118 Carbazole	167	10.060	10.060	(1.037)	44562	5.00000	4.719	
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	50710	5.00000	4.435	
126 Fluoranthene	202	11.624	11.624	(1.199)	41793	5.00000	4.605	
127 Benzidine	184	11.884	11.884	(0.841)	26818	5.00000	5.356	
128 Pyrene	202	11.987	11.987	(0.849)	47347	5.00000	4.963	
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	22191	5.00000	5.992	
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	22139	5.00000	4.484	
138 Benzo(a)Anthracene	228	14.091	14.091	(0.998)	39402	5.00000	4.850	
139 Chrysene	228	14.163	14.163	(1.003)	42571	5.00000	5.065	
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	13228	5.00000	4.479	
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.022)	30835	5.00000	4.518	
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	45950	5.00000	5.880	
144 Benzo(b)fluoranthene	252	15.925	15.925	(0.964)	33424	5.00000	4.338	
145 Benzo(k)fluoranthene	252	15.967	15.967	(0.967)	44835	5.00000	4.963	
147 Benzo(e)pyrene	252	16.350	16.350	(0.990)	36134	5.00000	4.731	
148 Benzo(a)pyrene	252	16.433	16.433	(0.995)	39312	5.00000	4.663	
151 Indeno(1,2,3-cd)pyrene	276	18.257	18.257	(1.105)	41134	5.00000	5.552	
152 Dibenzo(a,h)anthracene	278	18.319	18.319	(1.109)	34423	5.00000	4.501	
153 Benzo(g,h,i)perylene	276	18.734	18.734	(1.134)	39032	5.00000	4.780	

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT	ON-COL
-----	----		----	-----	-----	( NG)	( NG)	
M 162 benzo b,k Fluoranthene Totals	252				78259	5.00000	4.676 (A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

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INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i	Calibration Date: 23-AUG-2010
Lab File ID: HSL0823A.D	Calibration Time: 16:14
Lab Smp Id: HSL 005 ug/ml CS-1	Client Smp ID: 8270F.M
Analysis Type: SV	Level:
Quant Type: ISTD	Sample Type:
Operator: KT	
Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m	
Misc Info: 3;;0;1_8270STD.SUB;10MSSV0307;0;8270F.M	

Test Mode:  
 Use Initial Calibration Level 4.

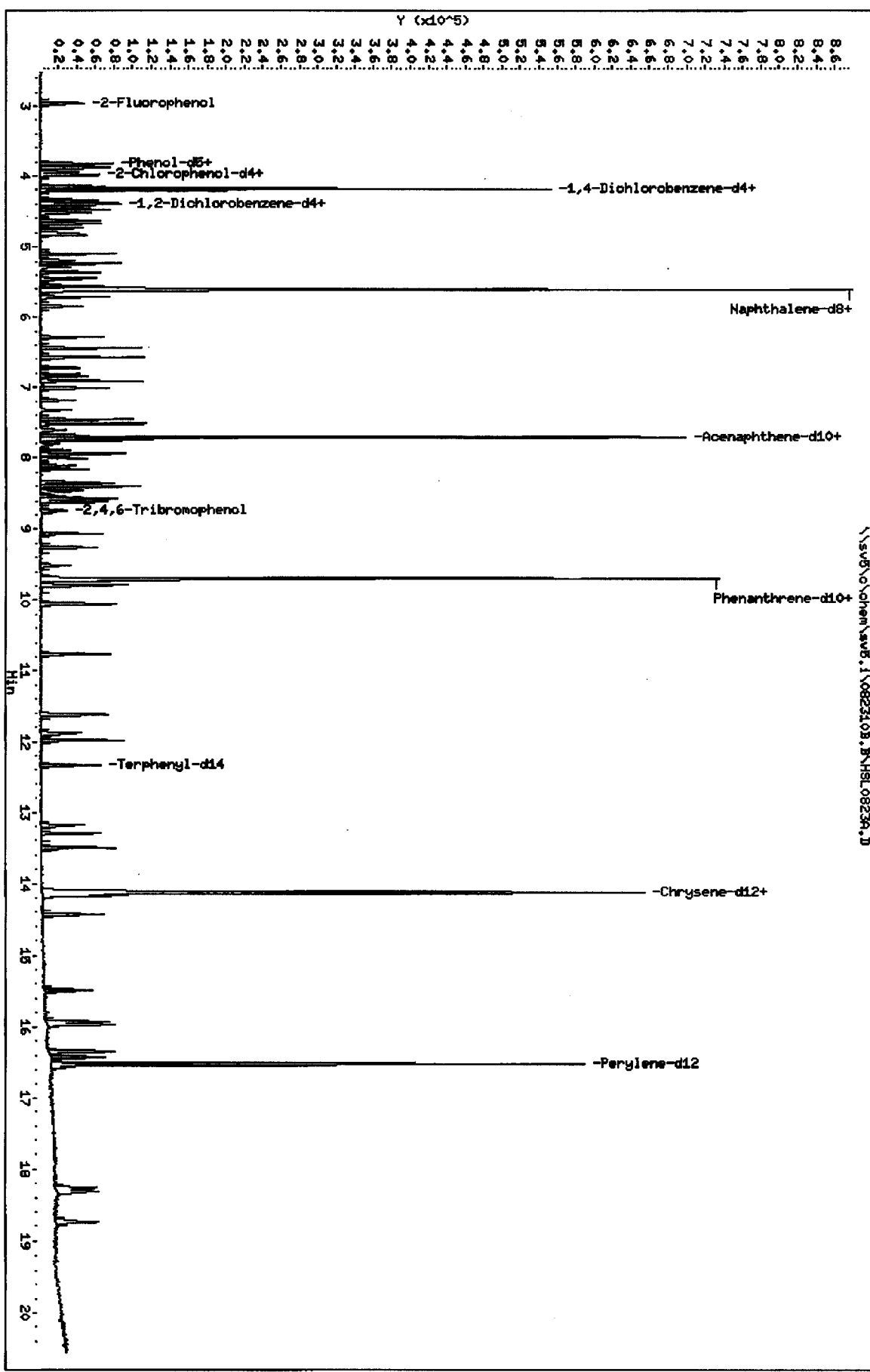
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	91148	-18.91
2 Naphthalene-d8	494728	247364	989456	397203	-19.71
3 Acenaphthene-d10	264752	132376	529504	207096	-21.78
4 Phenanthrene-d10	415811	207906	831622	320757	-22.86
5 Chrysene-d12	431516	215758	863032	307293	-28.79
6 Perylene-d12	416460	208230	832920	324529	-22.07

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.12	-0.07
6 Perylene-d12	16.53	16.03	17.03	16.52	-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: \\svb\chem\svb\1\082310B.B\HSL0823a.D  
 Date: 23-AUG-2010 16:40  
 Client ID: 8270F.H  
 Sample Info: HSL\_005 ug/ml CS-1111111114  
 Column phase:

Instrument: svb.i  
 Operator: KT  
 Column diameter: 2.00



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Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823B.D  
 Lab Smp Id: HSL 010 ug/ml CS-2 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:06  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 15:55 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:45 Cal File: AP90817A.D  
 Als bottle: 93 Calibration Sample, Level: 2  
 Dil Factor: 1.00000 Compound Sublist: 1\_8270STD.SUB  
 Integrator: Falcon  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG	MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4		152	4.184	4.184	(1.000)	109349	40.0000	
* 2 Naphthalene-d8		136	5.603	5.603	(1.000)	480513	40.0000	
* 3 Acenaphthene-d10		164	7.718	7.718	(1.000)	244234	40.0000	
* 4 Phenanthrene-d10		188	9.697	9.697	(1.000)	370407	40.0000	
* 5 Chrysene-d12		240	14.122	14.122	(1.000)	358849	40.0000	
* 6 Perylene-d12		264	16.516	16.516	(1.000)	356753	40.0000	
\$ 7 2-Fluorophenol		112	2.961	2.961	(0.708)	39885	10.0000	9.934
\$ 8 Phenol-d5		99	3.821	3.821	(0.913)	48973	10.0000	9.488
\$ 9 2-Chlorophenol-d4		132	3.976	3.976	(0.950)	43673	10.0000	10.04
\$ 10 1,2-Dichlorobenzene-d4		152	4.391	4.391	(1.050)	27916	10.0000	10.34
\$ 11 Nitrobenzene-d5		82	4.816	4.816	(0.859)	42329	10.0000	10.05
\$ 12 2-Fluorobiphenyl		172	6.909	6.909	(0.895)	78986	10.0000	10.23
\$ 13 2,4,6-Tribromophenol		330	8.743	8.743	(1.133)	8730	10.0000	9.591
\$ 14 Terphenyl-d14		244	12.339	12.339	(0.874)	70463	10.0000	9.996
15 N-Nitrosodimethylamine		74	1.935	1.935	(0.463)	28754	10.0000	10.36
16 Pyridine		79	1.966	1.966	(0.470)	43595	10.0000	9.415
23 Aniline		93	3.883	3.883	(0.928)	62371	10.0000	9.521
24 Phenol		94	3.831	3.831	(0.916)	52850	10.0000	9.594
26 Bis(2-chloroethyl) ether		93	3.945	3.945	(0.943)	42799	10.0000	10.12
27 2-Chlorophenol		128	3.997	3.997	(0.955)	42655	10.0000	9.868
28 1,3-Dichlorobenzene		146	4.153	4.153	(0.993)	47292	10.0000	9.933
29 1,4-Dichlorobenzene		146	4.204	4.204	(1.005)	47547	10.0000	9.810
30 Benzyl Alcohol		108	4.339	4.339	(1.037)	29205	10.0000	9.986
31 1,2-Dichlorobenzene		146	4.401	4.401	(1.052)	45728	10.0000	10.09
32 2-Methylphenol		108	4.474	4.474	(1.069)	38900	10.0000	9.481
33 2,2'-oxybis(1-Chloropropane)		45	4.515	4.515	(1.079)	78149	10.0000	9.312
34 4-Methylphenol		108	4.629	4.629	(1.106)	42510	10.0000	9.943
36 Hexachloroethane		117	4.733	4.733	(1.131)	16502	10.0000	9.860
37 N-Nitrosodipropylamine		70	4.671	4.671	(1.116)	29691	10.0000	9.637
42 Nitrobenzene		77	4.837	4.837	(0.863)	41087	10.0000	9.692
44 Isophorone		82	5.096	5.096	(0.909)	76738	10.0000	9.267
45 2-Nitrophenol		139	5.199	5.199	(0.928)	22181	10.0000	10.50(O)
46 2,4-Dimethylphenol		107	5.230	5.230	(0.933)	41193	10.0000	9.523

*5/18/24/60*

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	49723	10.0000	10.31
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	30918	10.0000	9.987
50 Benzoic Acid	122	5.293	5.293	(0.945)	21115	10.0000	12.61
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	34305	10.0000	10.06
52 Naphthalene	128	5.624	5.624	(1.004)	133483	10.0000	9.945 (M)
54 4-Chloroaniline	127	5.717	5.717	(1.020)	51930	10.0000	10.88 (QH)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	16493	10.0000	10.44
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	33857	10.0000	9.313
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	80061	10.0000	9.658
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	18765	10.0000	10.98
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	17905	10.0000	9.987 (M)
70 2,4,5-Trichlorophenol	196	6.847	6.847	(0.887)	19245	10.0000	9.696 (M)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	67736	10.0000	9.886
73 2-Nitroaniline	65	7.189	7.189	(0.932)	21886	10.0000	9.927
76 Dimethylphthalate	163	7.458	7.458	(0.966)	77312	10.0000	9.676
77 Acenaphthylene	152	7.521	7.521	(0.974)	117976	10.0000	9.866
79 2,6-Dinitrotoluene	165	7.531	7.531	(0.976)	16605	10.0000	9.686 (QM)
80 3-Nitroaniline	138	7.686	7.686	(0.996)	22838	10.0000	10.07
81 Acenaphthene	153	7.749	7.749	(1.004)	77159	10.0000	10.15
82 2,4-Dinitrophenol	184	7.811	7.811	(1.012)	7808	10.0000	12.46
83 Dibenzofuran	168	7.946	7.946	(1.030)	99974	10.0000	9.959
84 4-Nitrophenol	109	7.894	7.894	(1.023)	10218	10.0000	10.25 (Q)
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	21764	10.0000	12.00
91 Fluorene	166	8.391	8.391	(1.087)	83101	10.0000	10.21
92 Diethylphthalate	149	8.350	8.350	(1.082)	81986	10.0000	9.798
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	34527	10.0000	10.23
94 4-Nitroaniline	138	8.464	8.464	(1.097)	21157	10.0000	9.515
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	9956	10.0000	12.20
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	69767	11.7000	12.19
100 Azobenzene	77	8.609	8.609	(0.888)	80133	10.0000	9.548
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	18282	10.0000	10.50
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	20024	10.0000	10.52
110 Pentachlorophenol	266	9.521	9.521	(0.982)	10629	10.0000	9.600
114 Phenanthrene	178	9.728	9.728	(1.003)	118548	10.0000	10.18
115 Anthracene	178	9.790	9.790	(1.010)	113533	10.0000	9.795
118 Carbazole	167	10.060	10.060	(1.037)	107939	10.0000	9.986
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	122649	10.0000	9.492
126 Fluoranthene	202	11.624	11.624	(1.199)	100507	10.0000	9.792
127 Benzidine	184	11.883	11.883	(0.841)	68288	10.0000	11.58
128 Pyrene	202	11.987	11.987	(0.849)	110409	10.0000	9.640
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	57609	10.0000	11.48
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	55168	10.0000	9.678
138 Benzo(a)Anthracene	228	14.091	14.091	(0.998)	92935	10.0000	9.854
139 Chrysene	228	14.163	14.163	(1.003)	98930	10.0000	9.974
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	32203	10.0000	9.770
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.022)	74784	10.0000	9.582
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	113249	10.0000	11.18
144 Benzo(b)fluoranthene	252	15.925	15.925	(0.964)	76293	10.0000	9.097
145 Benzo(k)fluoranthene	252	15.966	15.966	(0.967)	99665	10.0000	9.676
147 Benzo(e)pyrene	252	16.350	16.350	(0.990)	79673	10.0000	9.438
148 Benzo(a)pyrene	252	16.433	16.433	(0.995)	86294	10.0000	9.426
151 Indeno(1,2,3-cd)pyrene	276	18.257	18.257	(1.105)	75579	10.0000	10.34 (M)
152 Dibenzo(a,h)anthracene	278	18.309	18.309	(1.109)	80379	10.0000	9.862
153 Benzo(g,h,i)perylene	276	18.733	18.733	(1.134)	86476	10.0000	9.954

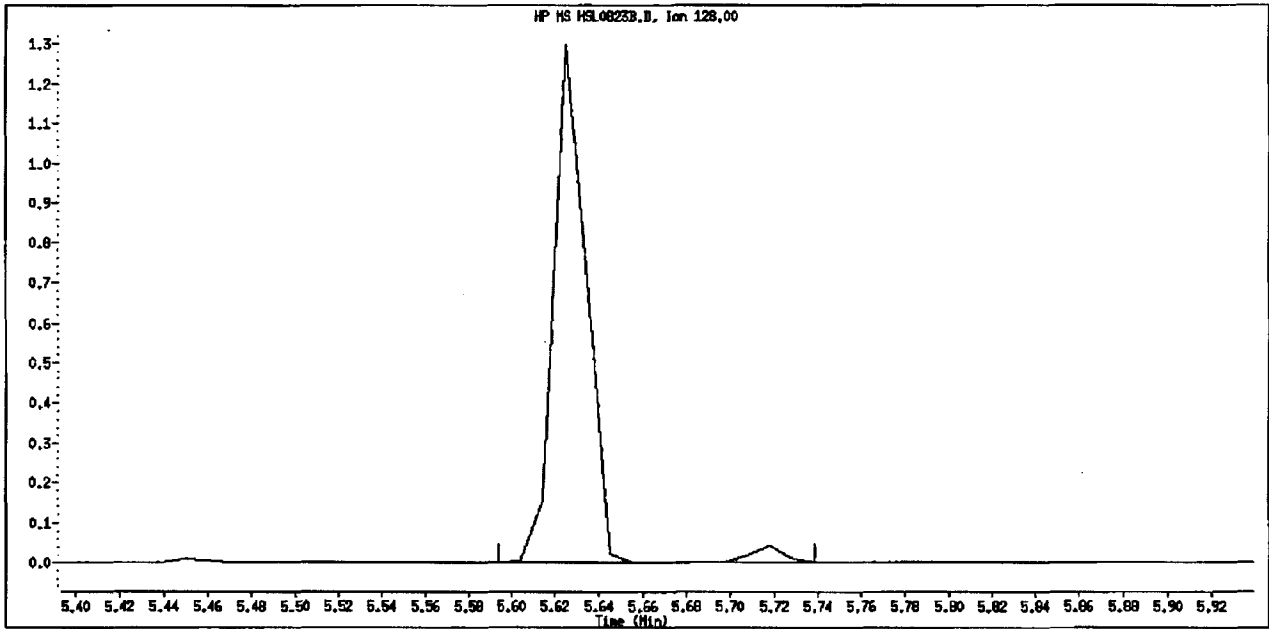


Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
=====	====	====	=====	=====	=====	( NG)	( NG)
M 162 benzo b,k Fluoranthene Totals	252				175958	10.0000	

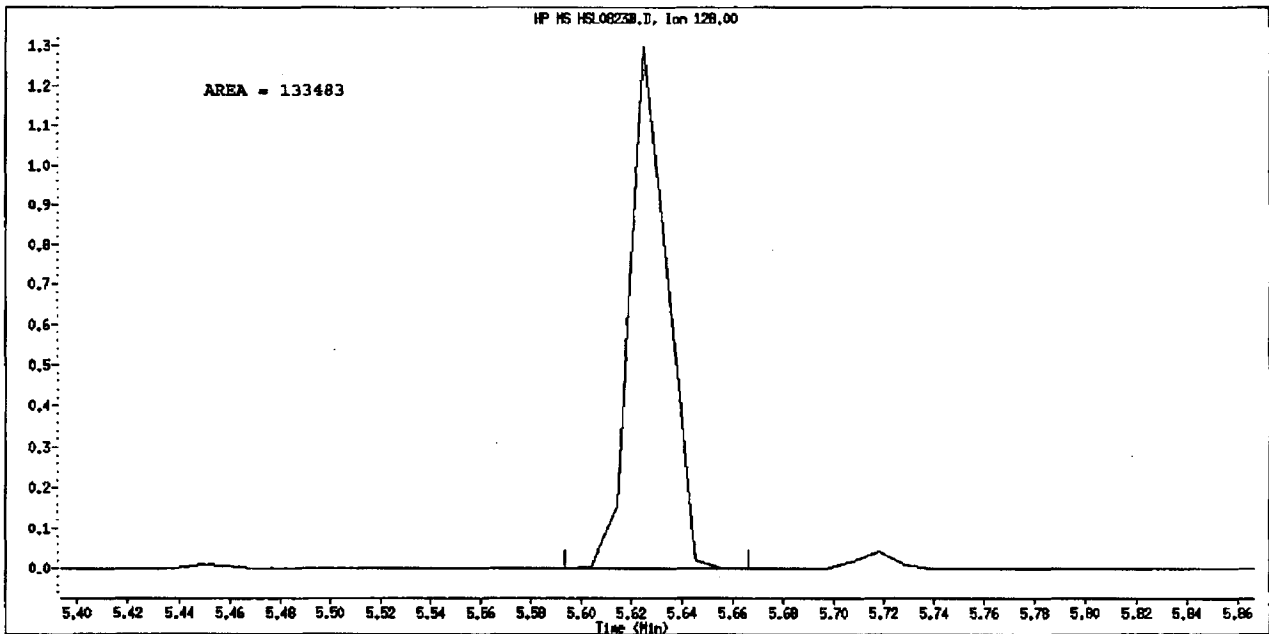
QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: HSL0823B.D  
Inj. Date and Time: 23-AUG-2010 17:06  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Naphthalene  
CAS #: 91-20-3  
Report Date: 08/24/2010



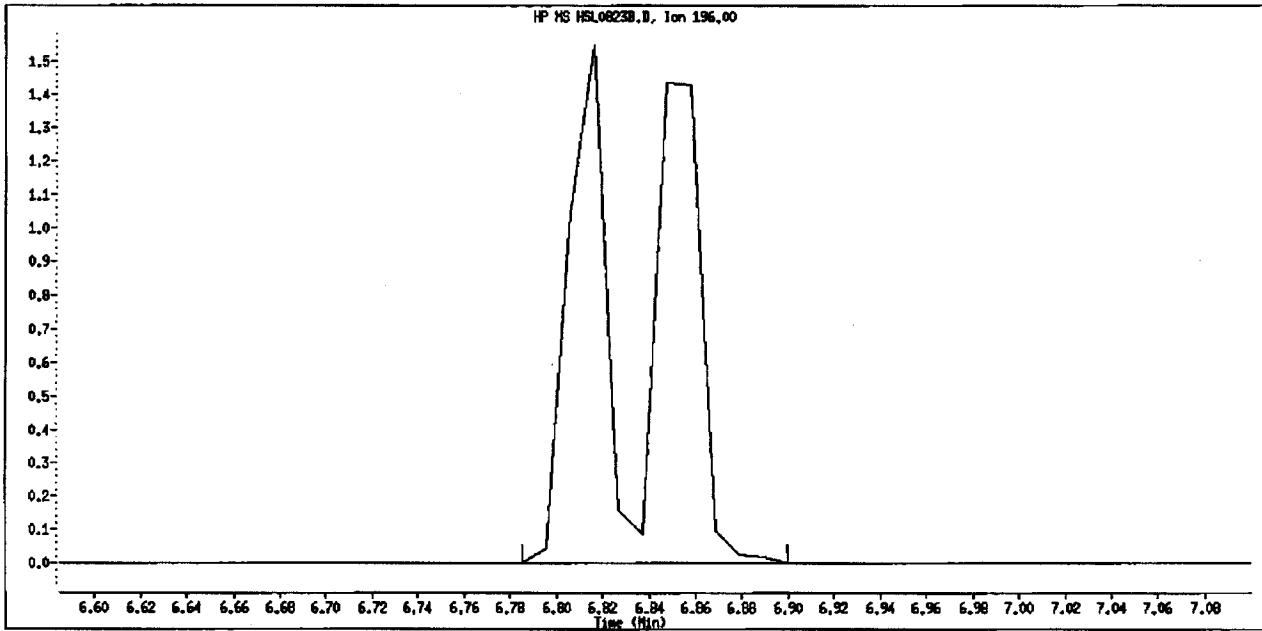
Original Integration



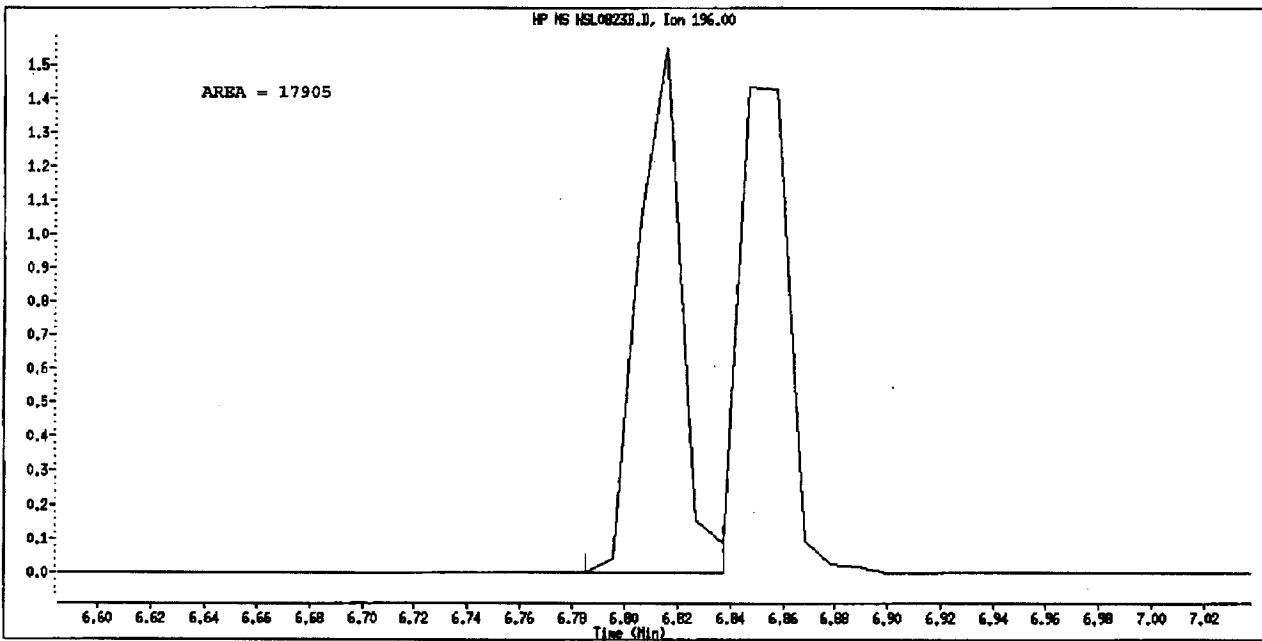
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823B.D  
Inj. Date and Time: 23-AUG-2010 17:06  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,6-Trichlorophenol  
CAS #: 88-06-2  
Report Date: 08/24/2010



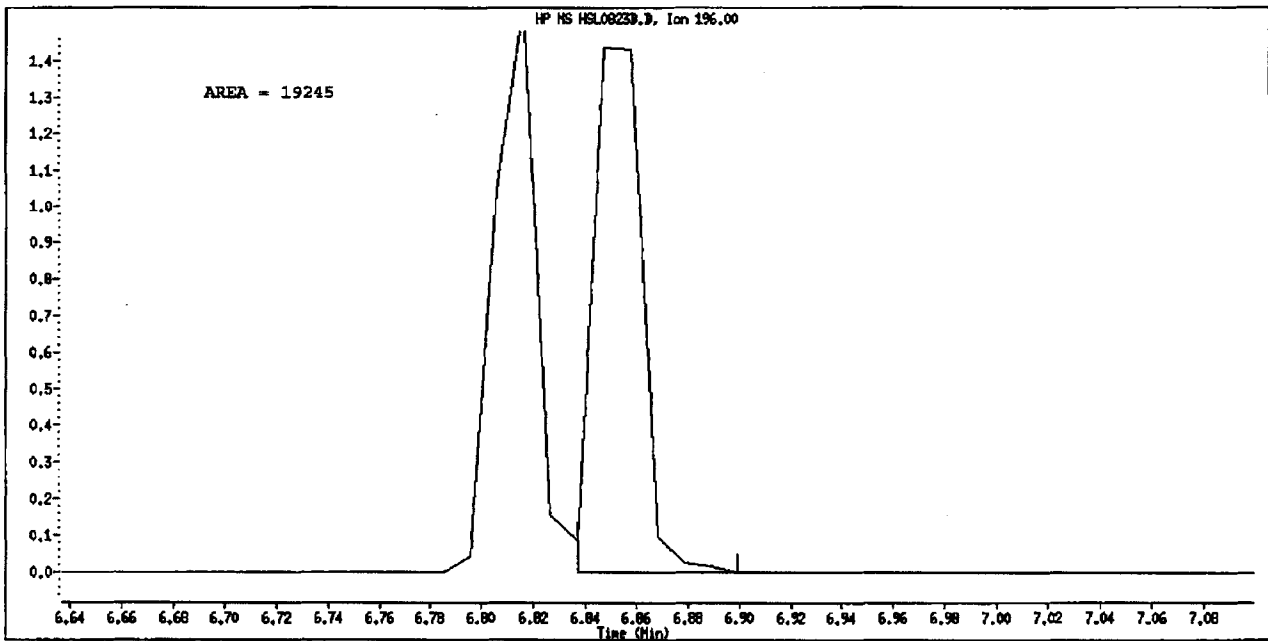
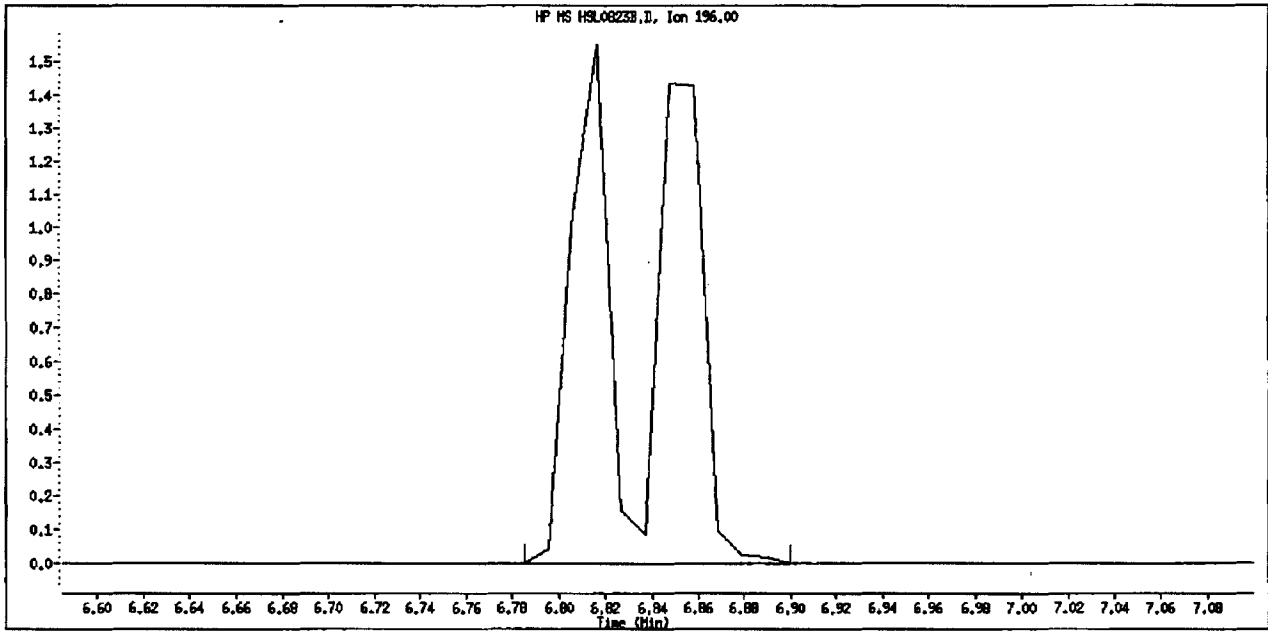
Original Integration



Manual Integration

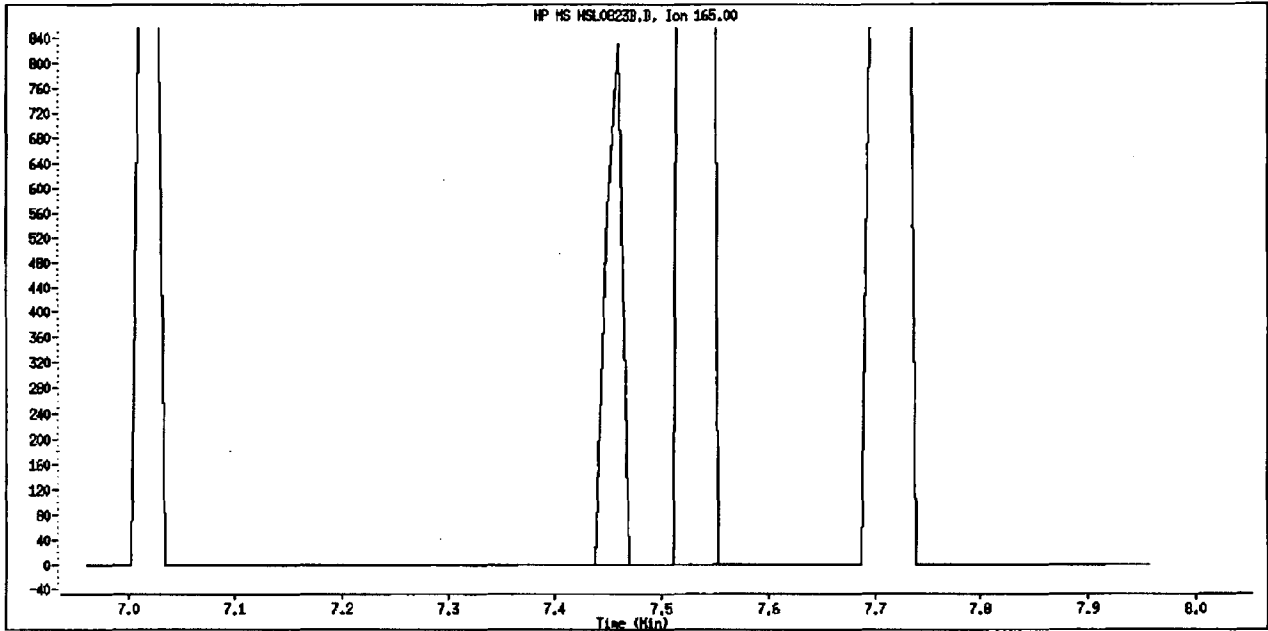
Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823B.D  
Inj. Date and Time: 23-AUG-2010 17:06  
Instrument ID: sv5.i  
Client ID: 0270F.M  
Compound Name: 2,4,5-Trichlorophenol  
CAS #: 95-95-4  
Report Date: 08/24/2010

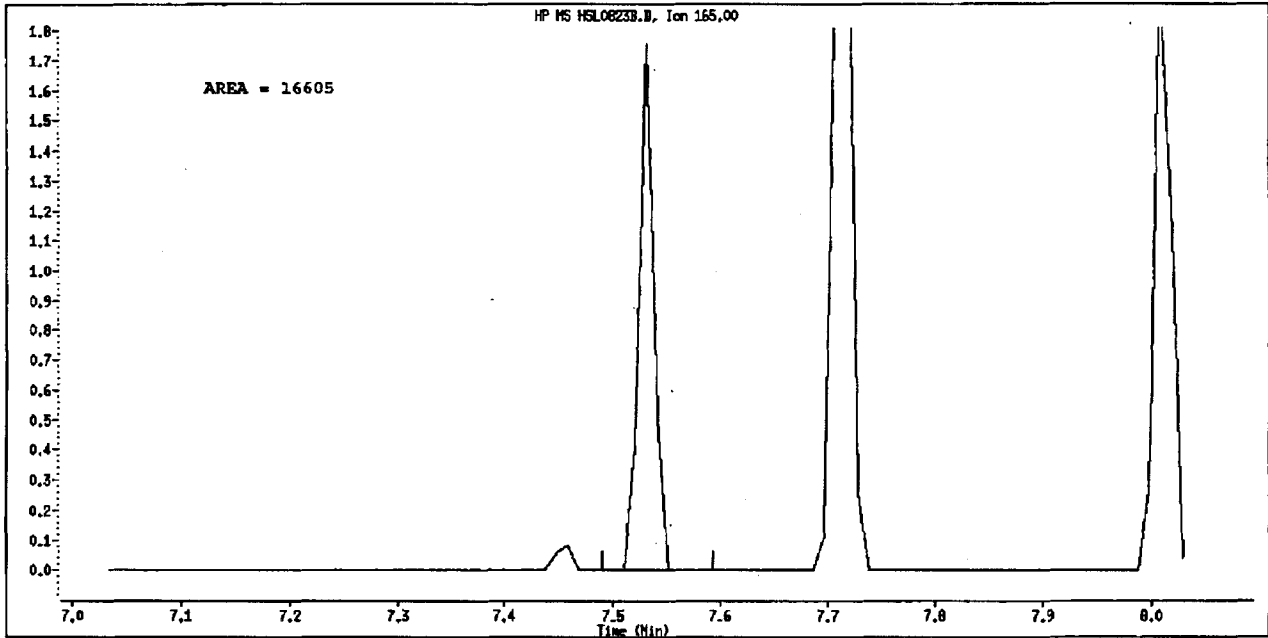


Manually Integrated By: scottax  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL08238.D  
Inj. Date and Time: 23-AUG-2010 17:06  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 08/24/2010



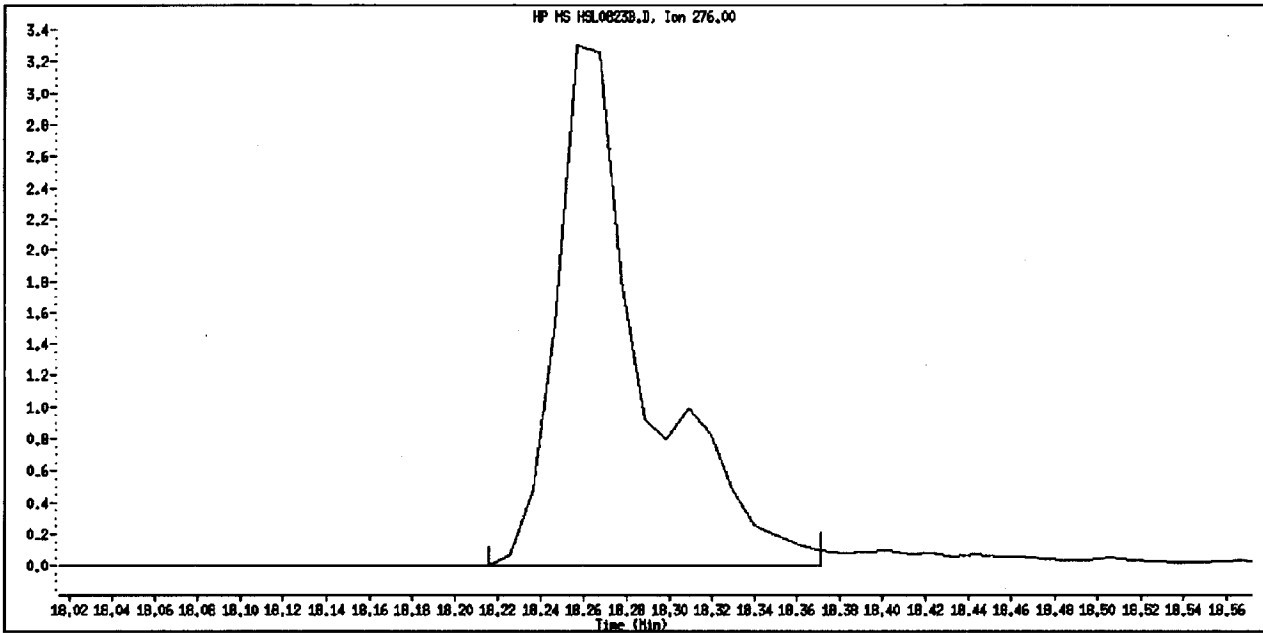
Original Integration



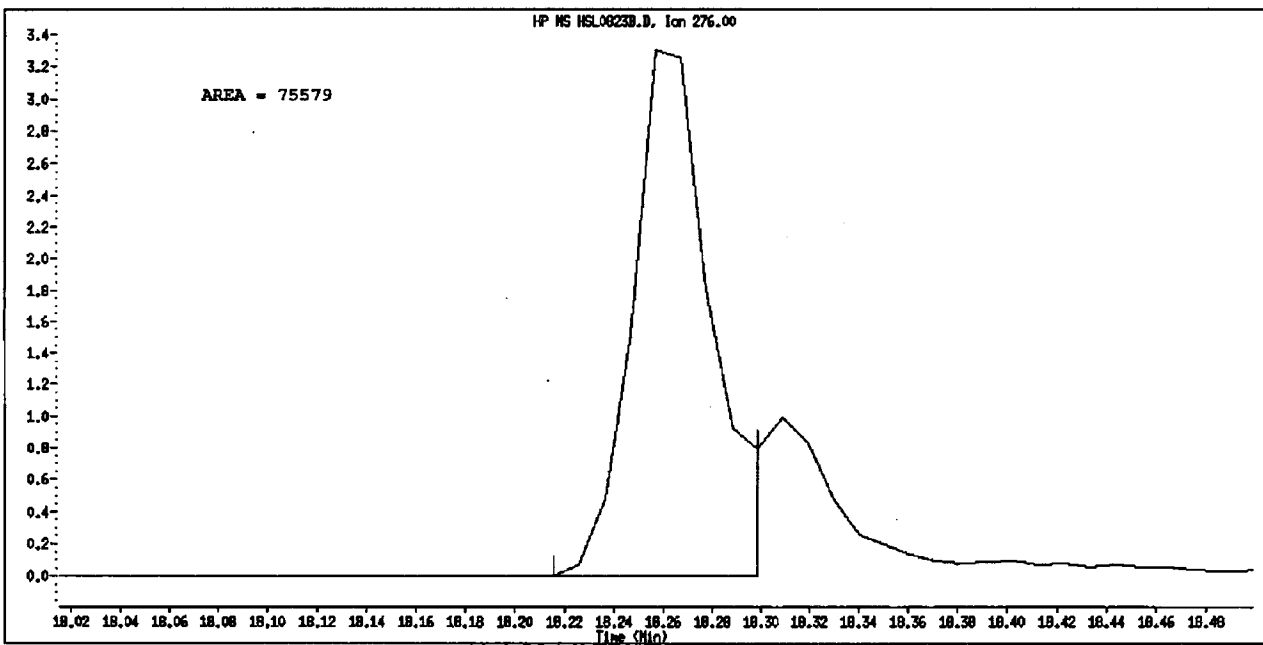
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Unknown

Data File Name: HSL0823B.D  
Inj. Date and Time: 23-AUG-2010 17:06  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823B.D  
 Lab Smp Id: HSL 010 ug/ml CS-2 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:06  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:11 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 22:11 Cal File: AP90817B.D  
 Als bottle: 93 Calibration Sample, Level: 2  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RRSPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184 (1.000)	109349	40.0000		
* 2 Naphthalene-d8	136	5.603	5.603 (1.000)	480513	40.0000		
* 3 Acenaphthene-d10	164	7.718	7.718 (1.000)	244234	40.0000		
* 4 Phenanthrene-d10	188	9.697	9.697 (1.000)	370407	40.0000		
* 5 Chrysene-d12	240	14.122	14.122 (1.000)	358849	40.0000		
* 6 Perylene-d12	264	16.516	16.516 (1.000)	356753	40.0000		
\$ 7 2-Fluorophenol	112	2.961	2.961 (0.708)	39885	10.0000	9.863	
\$ 8 Phenol-d5	99	3.821	3.821 (0.913)	48973	10.0000	9.455	
\$ 9 2-Chlorophenol-d4	132	3.976	3.976 (0.950)	43673	10.0000	9.996	
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391 (1.050)	27916	10.0000	10.27	
\$ 11 Nitrobenzene-d5	82	4.816	4.816 (0.859)	42329	10.0000	9.806	
\$ 12 2-Fluorobiphenyl	172	6.909	6.909 (0.895)	78986	10.0000	10.22	
\$ 13 2,4,6-Tribromophenol	330	8.743	8.743 (1.133)	8730	10.0000	9.137	
\$ 14 Terphenyl-d14	244	12.339	12.339 (0.874)	70463	10.0000	10.15	
15 N-Nitrosodimethylamine	74	1.935	1.935 (0.463)	28754	10.0000	10.33	
16 Pyridine	79	1.966	1.966 (0.470)	43595	10.0000	9.454	
23 Aniline	93	3.883	3.883 (0.928)	62371	10.0000	9.616	
24 Phenol	94	3.831	3.831 (0.916)	52850	10.0000	9.557	
26 Bis(2-chloroethyl) ether	93	3.945	3.945 (0.943)	42799	10.0000	10.26	
27 2-Chlorophenol	128	3.997	3.997 (0.955)	42655	10.0000	9.874	
28 1,3-Dichlorobenzene	146	4.153	4.153 (0.993)	47292	10.0000	9.923	
29 1,4-Dichlorobenzene	146	4.204	4.204 (1.005)	47547	10.0000	9.849	
30 Benzyl Alcohol	108	4.339	4.339 (1.037)	29205	10.0000	9.856	
31 1,2-Dichlorobenzene	146	4.401	4.401 (1.052)	45728	10.0000	10.03	
32 2-Methylphenol	108	4.474	4.474 (1.069)	38900	10.0000	9.556	
33 2,2'-oxybis(1-Chloropropane)	45	4.515	4.515 (1.079)	78149	10.0000	9.838	
34 4-Methylphenol	108	4.629	4.629 (1.106)	42510	10.0000	9.810	
36 Hexachloroethane	117	4.733	4.733 (1.131)	16502	10.0000	9.703	
37 N-Nitrosodimethylamine	70	4.671	4.671 (1.116)	29691	10.0000	9.713	
42 Nitrobenzene	77	4.837	4.837 (0.863)	41087	10.0000	9.614	
44 Isophorone	82	5.096	5.096 (0.909)	76738	10.0000	9.458	
45 2-Nitrophenol	139	5.199	5.199 (0.928)	22181	10.0000	9.651	
46 2,4-Dimethylphenol	107	5.230	5.230 (0.933)	41193	10.0000	9.561	

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	49723	10.0000	10.31
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	30918	10.0000	9.845
50 Benzoic Acid	122	5.293	5.293	(0.945)	21115	10.0000	10.64
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	34305	10.0000	10.09
52 Naphthalene	128	5.624	5.624	(1.004)	137847	10.0000	10.21
54 4-Chloroaniline	127	5.624	5.624	(1.004)	15489	10.0000	9.439
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	16493	10.0000	10.24
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	33857	10.0000	9.277
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	80061	10.0000	9.806
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	18765	10.0000	10.03
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	36599	10.0000	13.95
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	36599	10.0000	13.84
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	67736	10.0000	9.943
73 2-Nitroaniline	65	7.189	7.189	(0.932)	21886	10.0000	9.404
76 Dimethylphthalate	163	7.458	7.458	(0.966)	77312	10.0000	9.804
77 Acenaphthylene	152	7.521	7.521	(0.974)	117976	10.0000	9.867
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	31676	10.0000	16.19
80 3-Nitroaniline	138	7.686	7.686	(0.996)	22838	10.0000	9.767
81 Acenaphthene	153	7.749	7.749	(1.004)	77159	10.0000	10.14
82 2,4-Dinitrophenol	184	7.811	7.811	(1.012)	7808	10.0000	10.55
83 Dibenzofuran	168	7.946	7.946	(1.030)	99974	10.0000	9.951
84 4-Nitrophenol	109	7.894	7.894	(1.023)	10218	10.0000	9.793
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	21764	10.0000	10.40
91 Fluorene	166	8.391	8.391	(1.087)	83101	10.0000	10.09
92 Diethylphthalate	149	8.350	8.350	(1.082)	81986	10.0000	9.919
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	34527	10.0000	10.21
94 4-Nitroaniline	138	8.464	8.464	(1.097)	21157	10.0000	9.158
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	9956	10.0000	10.22
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	69767	11.7000	12.03
100 Azobenzene	77	8.609	8.609	(0.888)	80133	10.0000	9.793
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	18282	10.0000	10.29
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	20024	10.0000	10.42
110 Pentachlorophenol	266	9.521	9.521	(0.982)	10629	10.0000	8.932
114 Phenanthrene	178	9.728	9.728	(1.003)	118548	10.0000	10.22
115 Anthracene	178	9.790	9.790	(1.010)	113533	10.0000	9.729
118 Carbazole	167	10.060	10.060	(1.037)	107939	10.0000	9.899
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	122649	10.0000	9.289
126 Fluoranthene	202	11.624	11.624	(1.199)	100507	10.0000	9.590
127 Benzidine	184	11.883	11.883	(0.841)	68288	10.0000	10.01
128 Pyrene	202	11.987	11.987	(0.849)	110409	10.0000	9.910
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	57609	10.0000	10.46
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	55168	10.0000	9.569
138 Benzo(a)Anthracene	228	14.091	14.091	(0.998)	92935	10.0000	9.796
139 Chrysene	228	14.163	14.163	(1.003)	98930	10.0000	10.08
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	32203	10.0000	9.338
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.022)	74784	10.0000	9.383
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	113249	10.0000	10.16
144 Benzo(b)fluoranthene	252	15.925	15.925	(0.964)	76293	10.0000	9.008
145 Benzo(k)fluoranthene	252	15.966	15.966	(0.967)	99665	10.0000	10.04
147 Benzo(e)pyrene	252	16.350	16.350	(0.990)	79673	10.0000	9.489
148 Benzo(a)pyrene	252	16.433	16.433	(0.995)	86294	10.0000	9.311
151 Indeno(1,2,3-cd)pyrene	276	18.257	18.257	(1.105)	93807	10.0000	10.22
152 Dibenzo(a,h)anthracene	278	18.309	18.309	(1.109)	80379	10.0000	9.560
153 Benzo(g,h,i)perylene	276	18.733	18.733	(1.134)	86476	10.0000	9.633



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
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M 162 benzo b,k Fluoranthene Totals	252				175958	10.0000	9.563 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823B.D  
 Lab Smp Id: HSL 010 ug/ml CS-2  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0308;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

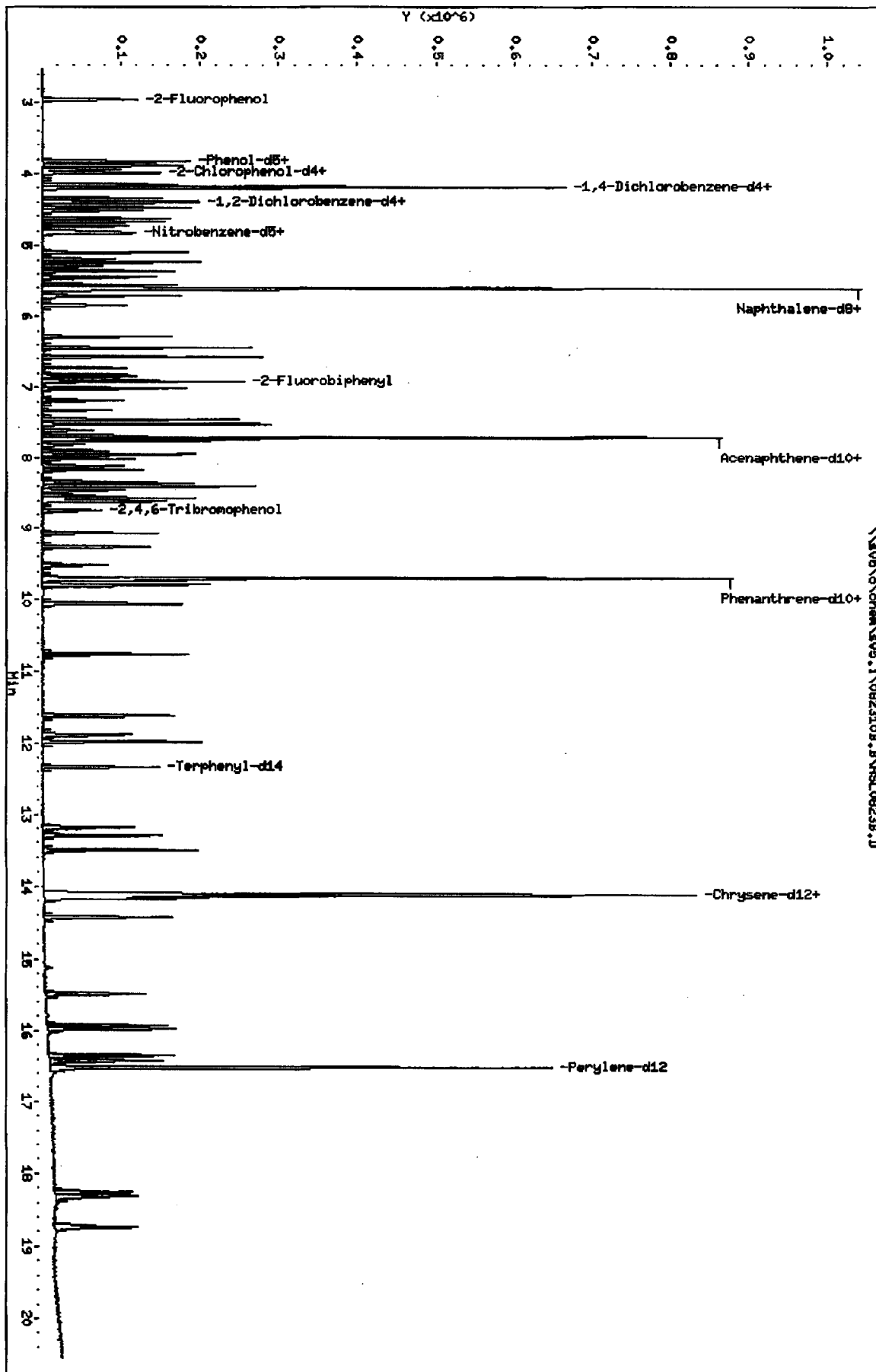
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	109349	-2.71
2 Naphthalene-d8	494728	247364	989456	480513	-2.87
3 Acenaphthene-d10	264752	132376	529504	244234	-7.75
4 Phenanthrene-d10	415811	207906	831622	370407	-10.92
5 Chrysene-d12	431516	215758	863032	358849	-16.84
6 Perylene-d12	416460	208230	832920	356753	-14.34

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	-0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	-0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	-0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	-0.00
5 Chrysene-d12	14.13	13.63	14.63	14.12	-0.07
6 Perylene-d12	16.53	16.03	17.03	16.52	-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: \\sv5\chem\sv5.1\0823108.B\HSL0823B.D  
Date: 23-AUG-2010 17:06  
Client ID: 8270F.H  
Sample Info: HSL\_010 ug/ml CS-211121114  
Column phase: 1

Instrument: sv5.1  
Operator: KT  
Column diameter: 2.00



TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823C.D  
 Lab Smp Id: HSL\_020 ug/ml CS-3 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:32  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 15:55 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 22:11 Cal File: AP90817B.D  
 Als bottle: 94 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	109250	40.0000	
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	505594	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	263989	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	403871	40.0000	
* 5 Chrysene-d12	240	14.122	14.122	(1.000)	393840	40.0000	
* 6 Perylene-d12	264	16.516	16.516	(1.000)	384719	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	81001	20.0000	20.25
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	105822	20.0000	20.52
\$ 9 2-Chlorophenol-d4	132	3.977	3.977	(0.950)	87371	20.0000	20.09
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	55793	20.0000	20.60
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	88730	20.0000	20.00
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	163735	20.0000	19.49
\$ 13 2,4,6-Tribromophenol	330	8.744	8.744	(1.133)	19280	20.0000	19.33
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.874)	148459	20.0000	19.13
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	54601	20.0000	19.60
16 Pyridine	79	1.956	1.956	(0.468)	95567	20.0000	21.00
23 Aniline	93	3.883	3.883	(0.928)	129647	20.0000	19.98
24 Phenol	94	3.832	3.832	(0.916)	109461	20.0000	20.02
26 Bis(2-chloroethyl) ether	93	3.946	3.946	(0.943)	84734	20.0000	20.19
27 2-Chlorophenol	128	3.997	3.997	(0.955)	88147	20.0000	20.43
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	98532	20.0000	20.81
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	100072	20.0000	20.79
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	58005	20.0000	19.79
31 1,2-Dichlorobenzene	146	4.402	4.402	(1.052)	93441	20.0000	20.60
32 2-Methylphenol	108	4.474	4.474	(1.069)	81370	20.0000	19.98
33 2,2'-oxybis(1-Chloropropane)	45	4.516	4.516	(1.079)	161451	20.0000	19.50
34 4-Methylphenol	108	4.630	4.630	(1.106)	87660	20.0000	20.40
36 Hexachloroethane	117	4.733	4.733	(1.131)	34316	20.0000	20.48
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	60103	20.0000	19.53 (M)
42 Nitrobenzene	77	4.837	4.837	(0.863)	87881	20.0000	19.69
44 Isophorone	82	5.096	5.096	(0.909)	164200	20.0000	19.04
45 2-Nitrophenol	139	5.199	5.199	(0.928)	45834	20.0000	20.03
46 2,4-Dimethylphenol	107	5.231	5.231	(0.933)	89298	20.0000	19.74

*5/18/24/10*

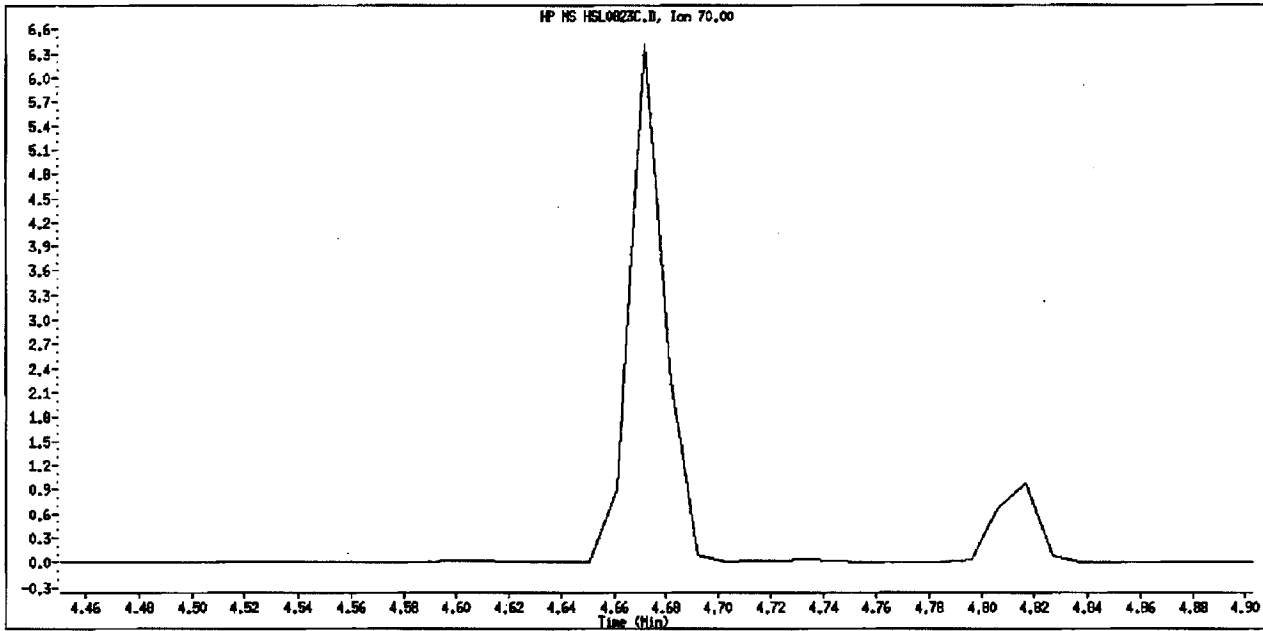
Compounds	QUANT SIG	AMOUNTS					
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	101820	20.0000	19.97
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	63764	20.0000	19.48
50 Benzoic Acid	122	5.303	5.303	(0.946)	46083	20.0000	22.03
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	70657	20.0000	19.74
52 Naphthalene	128	5.624	5.624	(1.004)	278775	20.0000	19.83
54 4-Chloroaniline	127	5.718	5.718	(1.020)	105306	20.0000	21.04 (H)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	32522	20.0000	19.36
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	74197	20.0000	19.42
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	168501	20.0000	19.42
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	38060	20.0000	19.89
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	39229	20.0000	20.04 (M)
70 2,4,5-Trichlorophenol	196	6.847	6.847	(0.887)	40962	20.0000	18.94 (M)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	144000	20.0000	19.52
73 2-Nitroaniline	65	7.189	7.189	(0.932)	47152	20.0000	19.44
76 Dimethylphthalate	163	7.459	7.459	(0.966)	167525	20.0000	19.45
77 Acenaphthylene	152	7.521	7.521	(0.974)	253914	20.0000	19.64
79 2,6-Dinitrotoluene	165	7.531	7.531	(0.976)	36775	20.0000	19.67 (QMH)
80 3-Nitroaniline	138	7.687	7.687	(0.996)	49049	20.0000	19.69
81 Acenaphthene	153	7.749	7.749	(1.004)	162598	20.0000	19.80
82 2,4-Dinitrophenol	184	7.811	7.811	(1.012)	19504	20.0000	22.88
83 Dibenzofuran	168	7.946	7.946	(1.030)	213749	20.0000	19.67
84 4-Nitrophenol	109	7.894	7.894	(1.023)	22106	20.0000	20.12
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	48451	20.0000	20.64
91 Fluorene	166	8.391	8.391	(1.087)	176789	20.0000	19.99
92 Diethylphthalate	149	8.350	8.350	(1.082)	171646	20.0000	19.02
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	71747	20.0000	19.54
94 4-Nitroaniline	138	8.464	8.464	(1.097)	48680	20.0000	20.02
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	23755	20.0000	21.17
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	144502	23.4000	22.92
100 Azobenzene	77	8.609	8.609	(0.888)	175604	20.0000	19.31
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	37921	20.0000	19.86
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	41136	20.0000	19.76
110 Pentachlorophenol	266	9.521	9.521	(0.982)	23021	20.0000	18.71
114 Phenanthrene	178	9.728	9.728	(1.003)	249639	20.0000	19.66
115 Anthracene	178	9.790	9.790	(1.010)	254535	20.0000	20.12
118 Carbazole	167	10.060	10.060	(1.037)	236965	20.0000	20.06
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	273588	20.0000	19.36
126 Fluoranthene	202	11.625	11.625	(1.199)	220458	20.0000	19.66
127 Benzidine	184	11.894	11.894	(0.842)	158121	20.0000	21.25
128 Pyrene	202	11.987	11.987	(0.849)	243102	20.0000	19.38
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	130478	20.0000	20.57
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	121530	20.0000	19.18
138 Benzo (a) Anthracene	228	14.101	14.101	(0.999)	200182	20.0000	19.19
139 Chrysene	228	14.164	14.164	(1.003)	215801	20.0000	19.89
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	74402	20.0000	20.24
141 bis(2-ethylhexyl) Phthalate	149	14.433	14.433	(1.022)	165990	20.0000	19.20
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	262325	20.0000	20.67
144 Benzo (b) fluoranthene	252	15.925	15.925	(0.964)	168822	20.0000	19.24
145 Benzo (k) fluoranthene	252	15.967	15.967	(0.967)	217724	20.0000	19.58
147 Benzo (e) pyrene	252	16.350	16.350	(0.990)	176945	20.0000	19.48
148 Benzo (a) pyrene	252	16.433	16.433	(0.995)	204334	20.0000	20.64
151 Indeno(1,2,3-cd) pyrene	276	18.267	18.267	(1.106)	163773	20.0000	20.32 (M)
152 Dibenzo (a, h) anthracene	278	18.309	18.309	(1.109)	169908	20.0000	19.14
153 Benzo (g, h, i) perylene	276	18.734	18.734	(1.134)	191908	20.0000	20.18

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				386546	20.0000	

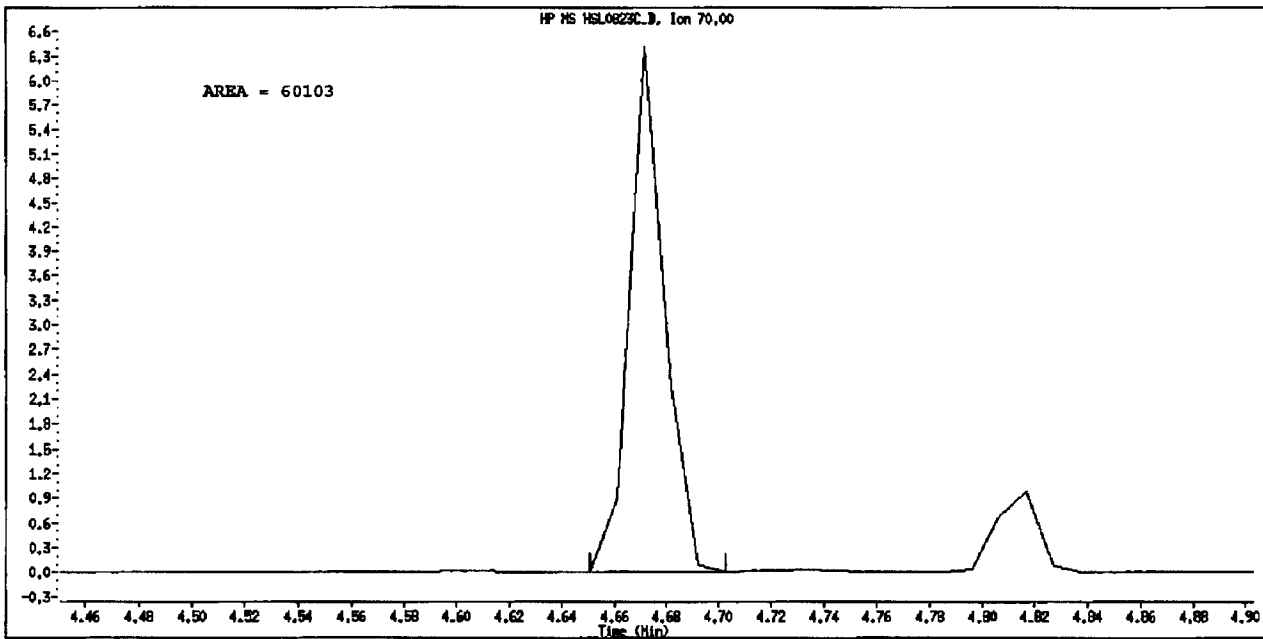
QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: HSL0823C.D  
Inj. Date and Time: 23-AUG-2010 17:32  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: N-Nitrosodipropylamine  
CAS #: 621-64-7  
Report Date: 08/24/2010



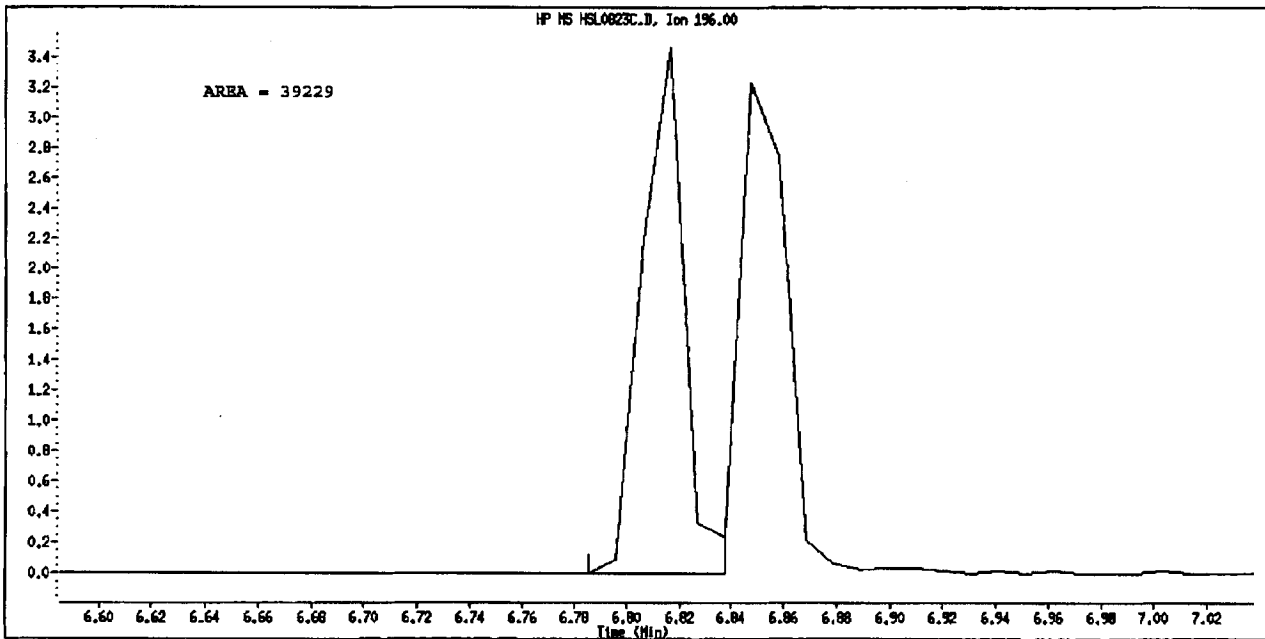
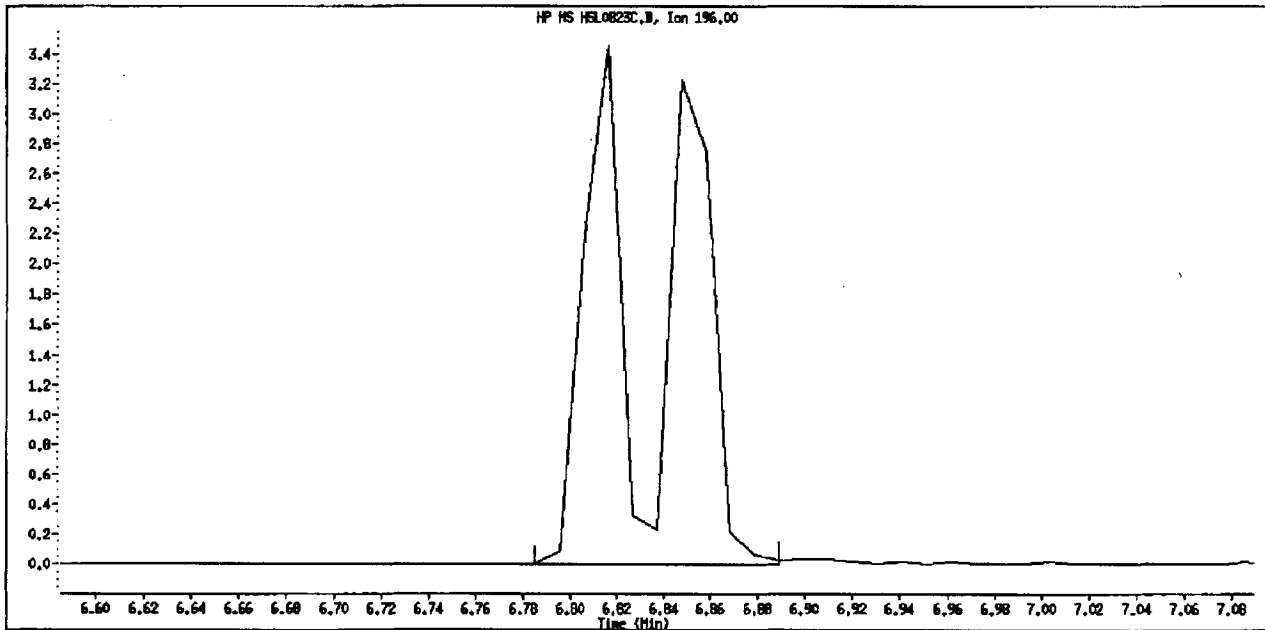
Original Integration



Manual Integration

Manually Integrated By: scottex  
Manual Integration Reason: Peak Not Found

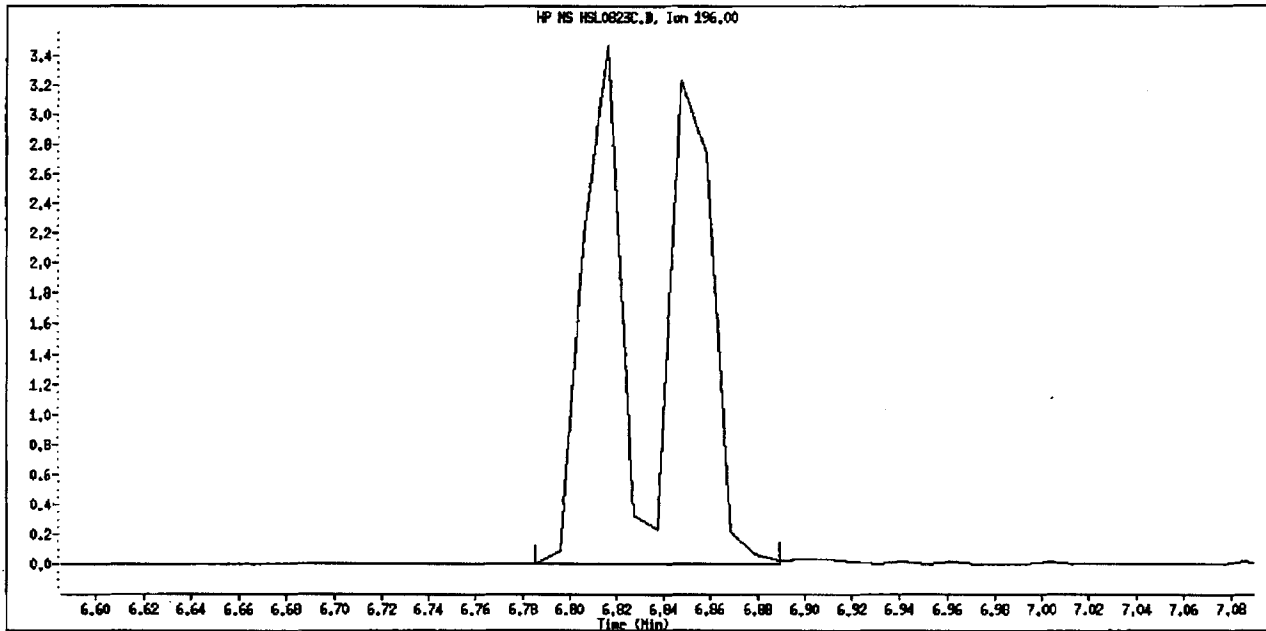
Data File Name: HSL0823C.D  
Inj. Date and Time: 23-AUG-2010 17:32  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,6-Trichlorophenol  
CAS #: 88-06-2  
Report Date: 08/24/2010



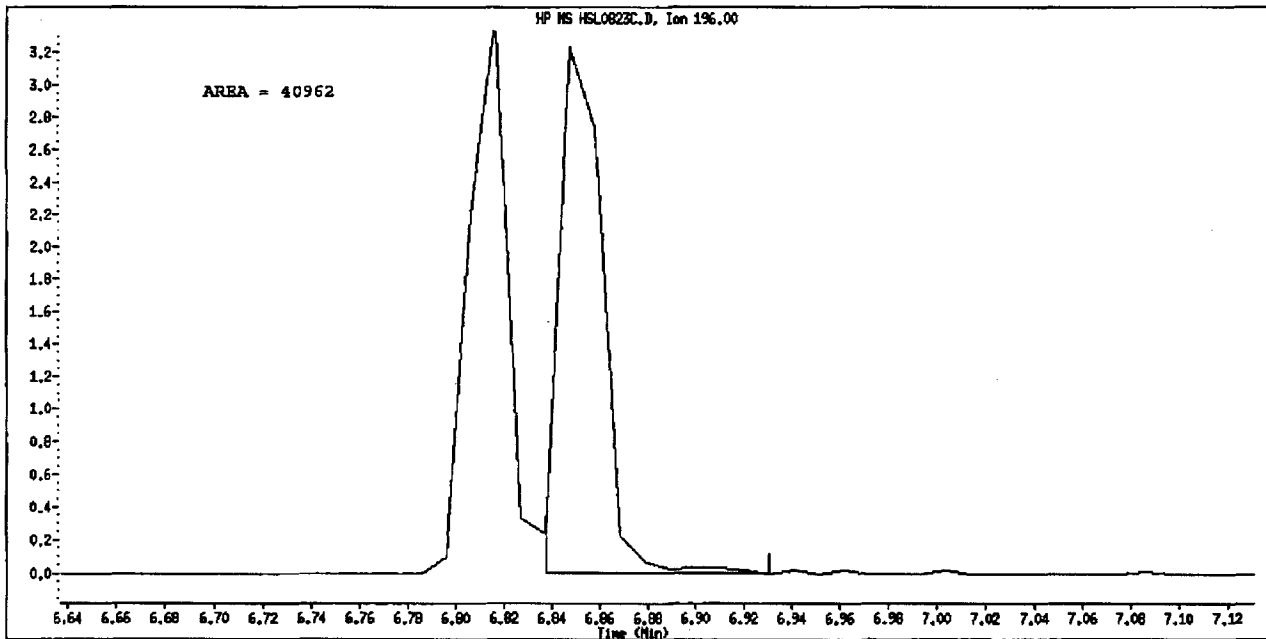
Manually Integrated By: scottex  
Manual Integration Reason: Poor Chromatography



Data File Name: HSL0823C.D  
Inj. Date and Time: 23-ADG-2010 17:32  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,4,5-Trichlorophenol  
CAS #: 95-95-4  
Report Date: 08/24/2010



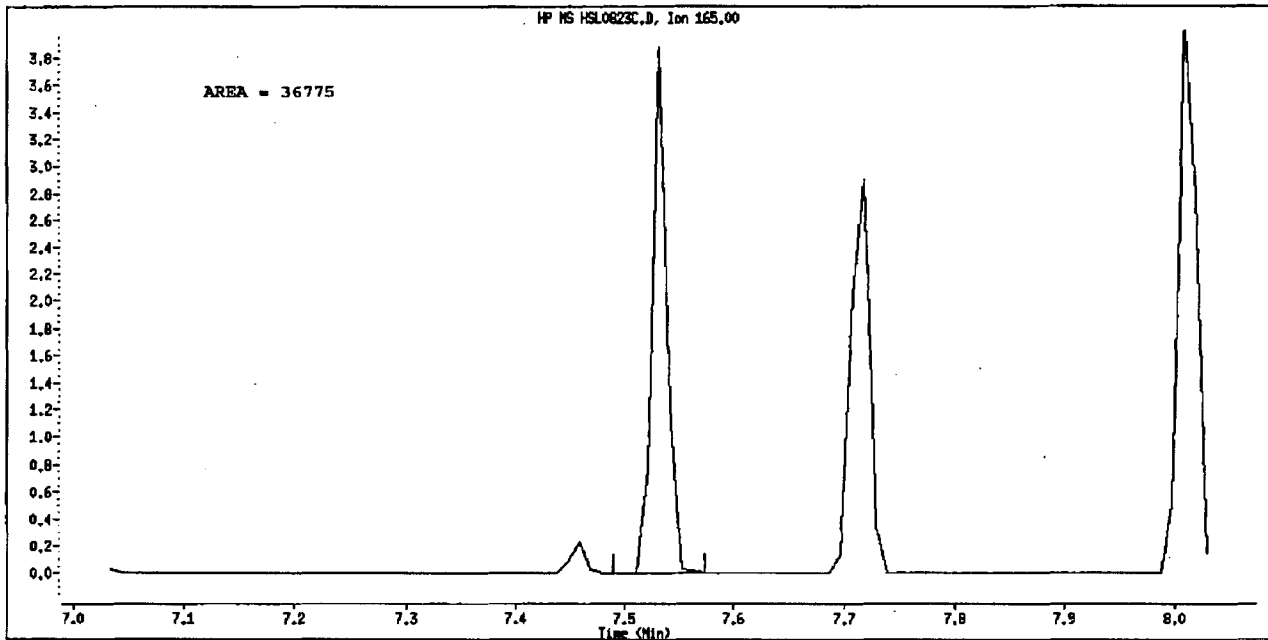
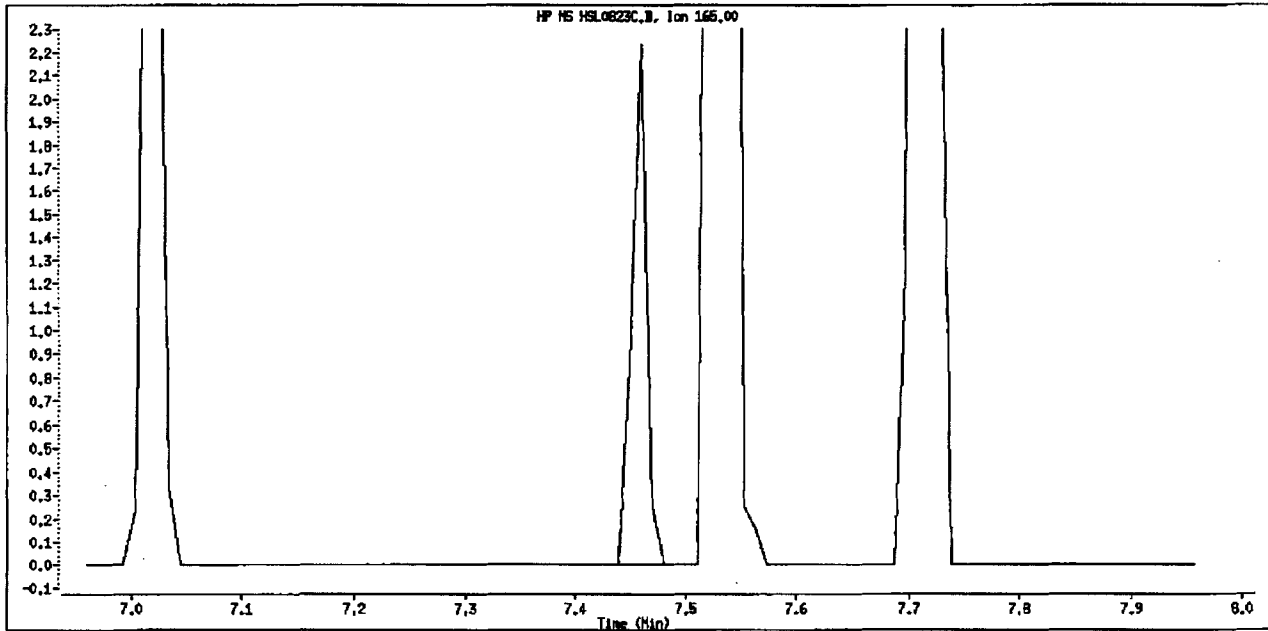
Original Integration



Manual Integration

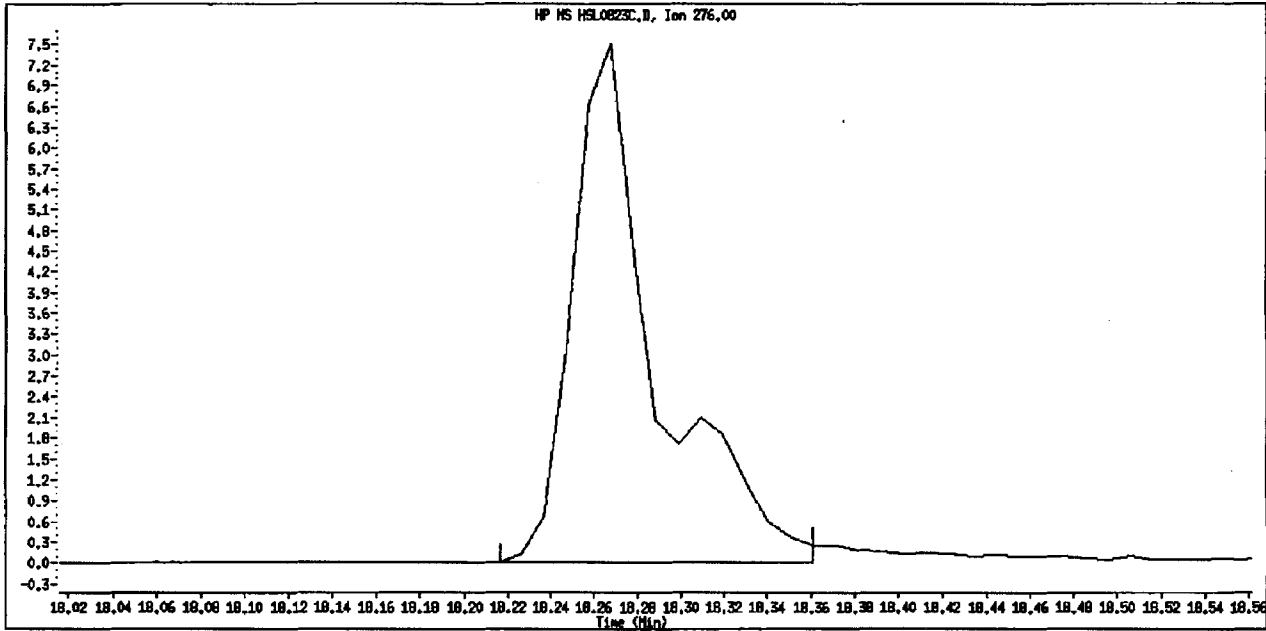
Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823C.D  
Inj. Date and Time: 23-AUG-2010 17:32  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 08/24/2010

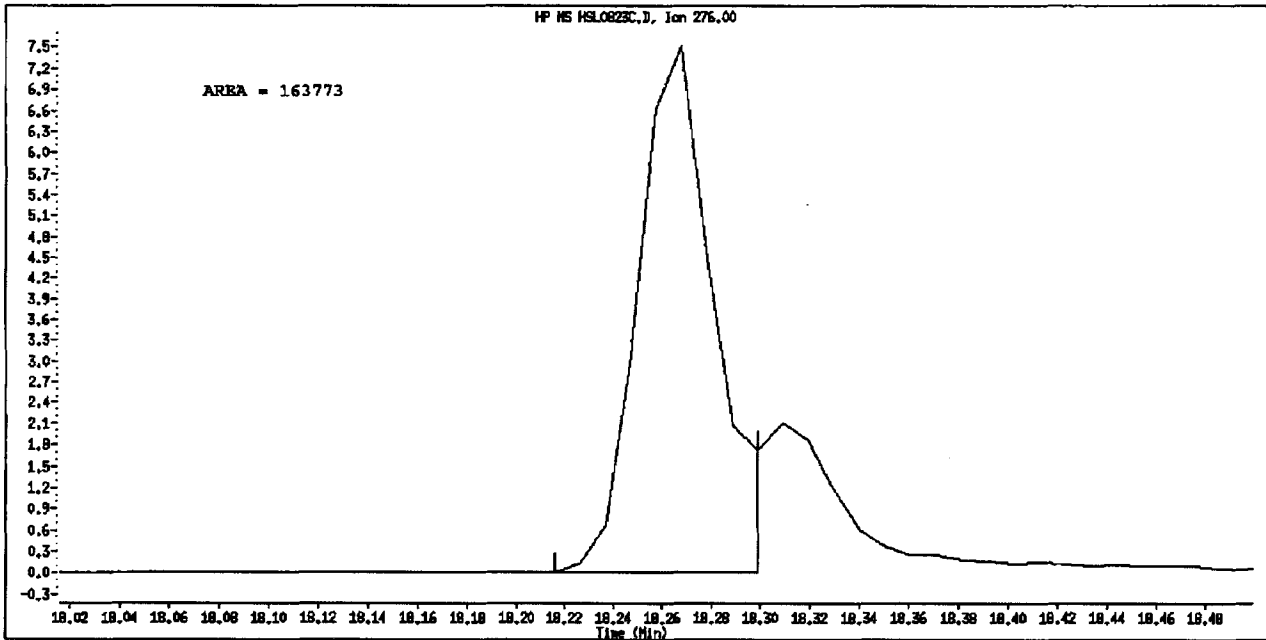


Manually Integrated By: scottsx  
Manual Integration Reason: ~~Unknown~~ Wrong Peak. by 8/24/10

Data File Name: HSL0823C.D  
Inj. Date and Time: 23-AUG-2010 17:32  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823C.D  
 Lab Smp Id: HSL\_020 ug/ml CS-3 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:32  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:12 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 22:37 Cal File: AP90817C.D  
 Als bottle: 94 Calibration Sample, Level: 3  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS		
						CAL-AMT ( NG)	ON-COL ( NG)	
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	109250	40.0000		
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	505594	40.0000		
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	263989	40.0000		
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	403871	40.0000		
* 5 Chrysene-d12	240	14.122	14.122	(1.000)	393840	40.0000		
* 6 Perylene-d12	264	16.516	16.516	(1.000)	384719	40.0000		
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	81001	20.0000	20.05	
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	105822	20.0000	20.45	
\$ 9 2-Chlorophenol-d4	132	3.977	3.977	(0.950)	87371	20.0000	20.02	
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	55793	20.0000	20.54	
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	88730	20.0000	19.53	
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	163735	20.0000	19.60	
\$ 13 2,4,6-Tribromophenol	330	8.744	8.744	(1.133)	19280	20.0000	18.67	
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.874)	148459	20.0000	19.48	
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	54601	20.0000	19.64	
16 Pyridine	79	1.956	1.956	(0.468)	95567	20.0000	20.74	
23 Aniline	93	3.883	3.883	(0.928)	129647	20.0000	20.01	
24 Phenol	94	3.832	3.832	(0.916)	109461	20.0000	19.81	
26 Bis(2-chloroethyl)ether	93	3.946	3.946	(0.943)	84734	20.0000	20.34	
27 2-Chlorophenol	128	3.997	3.997	(0.955)	88147	20.0000	20.42	
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	98532	20.0000	20.69	
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	100072	20.0000	20.75	
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	58005	20.0000	19.59	
31 1,2-Dichlorobenzene	146	4.402	4.402	(1.052)	93441	20.0000	20.51	
32 2-Methylphenol	108	4.474	4.474	(1.069)	81370	20.0000	20.01	
33 2,2'-oxybis(1-Chloropropane)	45	4.516	4.516	(1.079)	161451	20.0000	20.34	
34 4-Methylphenol	108	4.630	4.630	(1.106)	87660	20.0000	20.25	
36 Hexachloroethane	117	4.733	4.733	(1.131)	34316	20.0000	20.20	
37 N-Nitrosodipropylamine	70	Compound Not Detected.						
42 Nitrobenzene	77	4.837	4.837	(0.863)	87881	20.0000	19.54	
44 Isophorone	82	5.096	5.096	(0.909)	164200	20.0000	19.23	
45 2-Nitrophenol	139	5.199	5.199	(0.928)	45834	20.0000	18.95	
46 2,4-Dimethylphenol	107	5.231	5.231	(0.933)	89298	20.0000	19.70	

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	101820	20.0000	20.07
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	63764	20.0000	19.30
50 Benzoic Acid	122	5.303	5.303	(0.946)	46083	20.0000	19.12
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	70657	20.0000	19.75
52 Naphthalene	128	5.624	5.624	(1.004)	278775	20.0000	19.62
54 4-Chloroaniline	127	5.624	5.624	(1.004)	34814	20.0000	20.16
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	32522	20.0000	19.18
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	74197	20.0000	19.32
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	168501	20.0000	19.62
65 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	38060	20.0000	18.82
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	78199	20.0000	27.57
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	78199	20.0000	27.35
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	144000	20.0000	19.56
73 2-Nitroaniline	65	7.189	7.189	(0.932)	47152	20.0000	18.74
76 Dimethylphthalate	163	7.459	7.459	(0.966)	167525	20.0000	19.65
77 Acenaphthylene	152	7.521	7.521	(0.974)	253914	20.0000	19.65
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	33608	20.0000	15.89
80 3-Nitroaniline	138	7.687	7.687	(0.996)	49049	20.0000	19.41
81 Acenaphthene	153	7.749	7.749	(1.004)	162598	20.0000	19.76
82 2,4-Dinitrophenol	184	7.811	7.811	(1.012)	19504	20.0000	19.68
83 Dibenzofuran	168	7.946	7.946	(1.030)	213749	20.0000	19.68
84 4-Nitrophenol	109	7.894	7.894	(1.023)	22106	20.0000	19.60
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	48451	20.0000	19.30
91 Fluorene	166	8.391	8.391	(1.087)	176789	20.0000	19.86
92 Diethylphthalate	149	8.350	8.350	(1.082)	171646	20.0000	19.21
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	71747	20.0000	19.63
94 4-Nitroaniline	138	8.464	8.464	(1.097)	48680	20.0000	19.49
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	23755	20.0000	19.08
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	144502	23.4000	22.85
100 Azobenzene	77	8.609	8.609	(0.888)	175604	20.0000	19.68
101 4-Bromophenyl-phenylether	248	9.065	9.065	(0.935)	37921	20.0000	19.57
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	41136	20.0000	19.64
110 Pentachlorophenol	266	9.521	9.521	(0.982)	23021	20.0000	17.74
114 Phenanthrene	178	9.728	9.728	(1.003)	249639	20.0000	19.74
115 Anthracene	178	9.790	9.790	(1.010)	254535	20.0000	20.00
118 Carbazole	167	10.060	10.060	(1.037)	236965	20.0000	19.93
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	273588	20.0000	19.00
126 Fluoranthene	202	11.625	11.625	(1.199)	220458	20.0000	19.29
127 Benzidine	184	11.894	11.894	(0.842)	158121	20.0000	19.53
128 Pyrene	202	11.987	11.987	(0.849)	243102	20.0000	19.88
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	130478	20.0000	19.08
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	121530	20.0000	19.21
138 Benzo(a)Anthracene	228	14.101	14.101	(0.999)	200182	20.0000	19.22
139 Chrysene	228	14.164	14.164	(1.003)	215801	20.0000	20.03
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	74402	20.0000	19.66
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.022)	165990	20.0000	18.98
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	262325	20.0000	19.17
144 Benzo(b)fluoranthene	252	15.925	15.925	(0.964)	168822	20.0000	18.48
145 Benzo(k)fluoranthene	252	15.967	15.967	(0.967)	217724	20.0000	20.33
147 Benzo(e)pyrene	252	16.350	16.350	(0.990)	176945	20.0000	19.54
148 Benzo(a)pyrene	252	16.433	16.433	(0.995)	204334	20.0000	20.44
151 Indeno(1,2,3-cd)pyrene	276	18.267	18.267	(1.106)	202321	20.0000	20.43
152 Dibenzo(a,h)anthracene	278	18.309	18.309	(1.109)	169908	20.0000	18.74
153 Benzo(g,h,i)perylene	276	18.734	18.734	(1.134)	191908	20.0000	19.82

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
-----	----	----	-----	-----	( NG)	( NG)	
M 162 benzo b,k Fluoranthene Totals	252				386546	20.0000	19.48 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823C.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\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0309;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

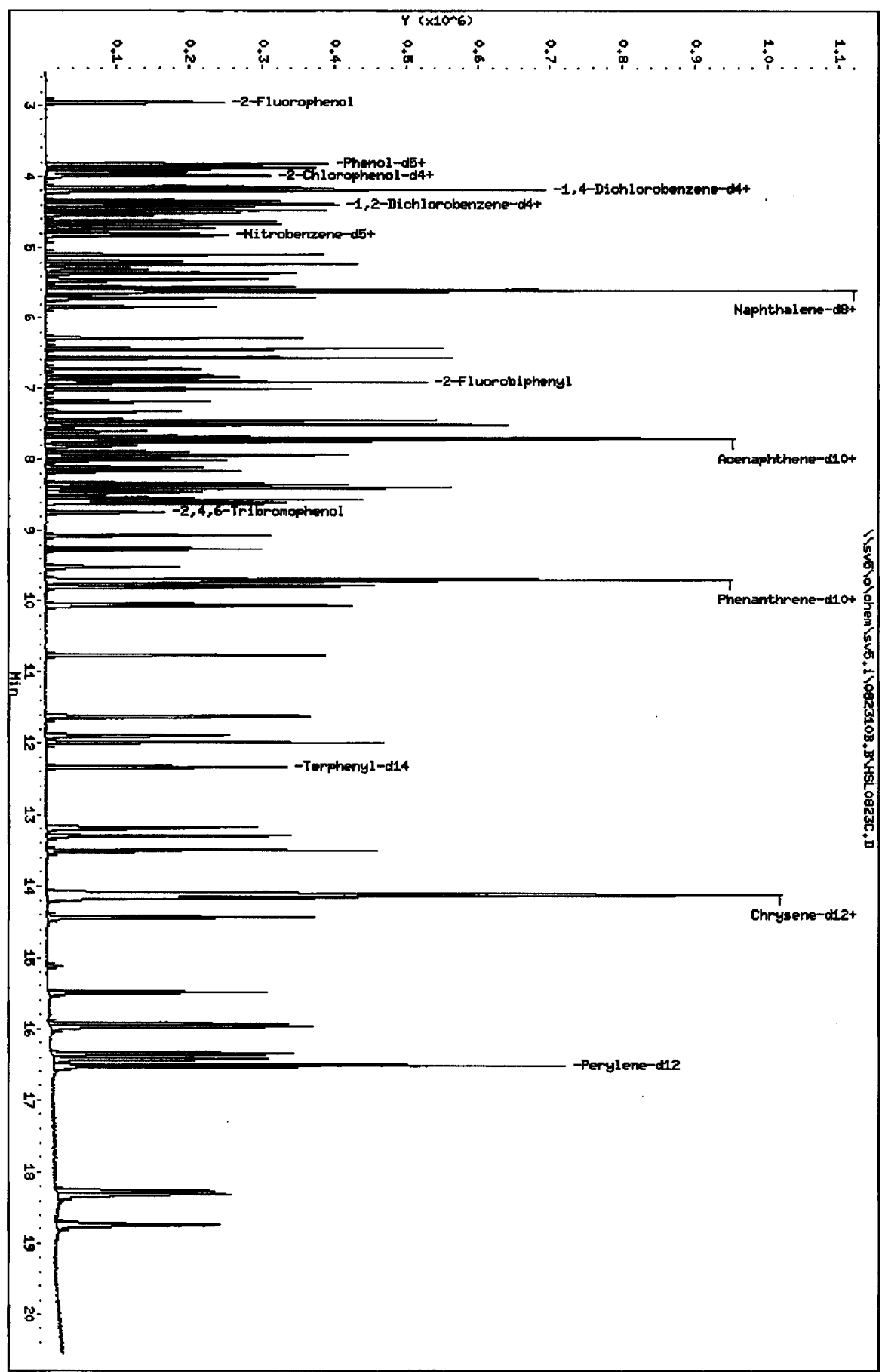
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	109250	-2.80
2 Naphthalene-d8	494728	247364	989456	505594	2.20
3 Acenaphthene-d10	264752	132376	529504	263989	-0.29
4 Phenanthrene-d10	415811	207906	831622	403871	-2.87
5 Chrysene-d12	431516	215758	863032	393840	-8.73
6 Perylene-d12	416460	208230	832920	384719	-7.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.12	-0.07
6 Perylene-d12	16.53	16.03	17.03	16.52	-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: \\svb\chem\sv5.1\082310B.BVHSL0823C.D  
 Date: 23-AUG-2010 17:32  
 Client ID: 8279F.M  
 Sample Info: HSL\_020 ug/ml CS-3;1;3;3;3;4  
 Column phase:

Instrument: sv5.1  
 Operator: KT  
 Column diameter: 2.00





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Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823D.D  
 Lab Smp Id: HSL 050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 16:14  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 15:54 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Dil bottle: 95 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	112399	40.0000	
* 2 Naphthalene-d8	136	5.603	5.603	(1.000)	494728	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	264752	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	415811	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	431516	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	416460	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	205458	50.0000	49.78
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	268577	50.0000	50.61
\$ 9 2-Chlorophenol-d4	132	3.976	3.976	(0.950)	221459	50.0000	50.05
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	134259	50.0000	48.39
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	220739	50.0000	51.27
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	408804	50.0000	48.83
\$ 13 2,4,6-Tribromophenol	330	8.743	8.743	(1.133)	55963	50.0000	59.34
\$ 14 Terphenyl-d14	244	12.339	12.339	(0.873)	410782	50.0000	48.67
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	139987	50.0000	48.74
16 Pyridine	79	1.956	1.956	(0.468)	229677	50.0000	47.89
23 Aniline	93	3.883	3.883	(0.928)	335570	50.0000	49.52
24 Phenol	94	3.842	3.842	(0.918)	283543	50.0000	50.36
26 Bis(2-chloroethyl) ether	93	3.945	3.945	(0.943)	210388	50.0000	47.87
27 2-Chlorophenol	128	3.997	3.997	(0.955)	222487	50.0000	50.06
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	240570	50.0000	49.12
29 1,4-Dichlorobenzene	146	4.204	4.204	(1.005)	249353	50.0000	49.66
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	145798	50.0000	48.70 (M)
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	231012	50.0000	49.98
32 2-Methylphenol	108	4.474	4.474	(1.069)	213241	50.0000	50.50
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	408964	50.0000	46.36
34 4-Methylphenol	108	4.629	4.629	(1.106)	225711	50.0000	51.20
36 Hexachloroethane	117	4.733	4.733	(1.131)	85571	50.0000	50.04
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	157958	50.0000	50.10
42 Nitrobenzene	77	4.837	4.837	(0.863)	218289	50.0000	50.43
44 Isophorone	82	5.096	5.096	(0.909)	421458	50.0000	49.46
45 2-Nitrophenol	139	5.199	5.199	(0.928)	118778	50.0000	56.74
46 2,4-Dimethylphenol	107	5.230	5.230	(0.933)	221144	50.0000	49.50

*Handwritten signature/initials*

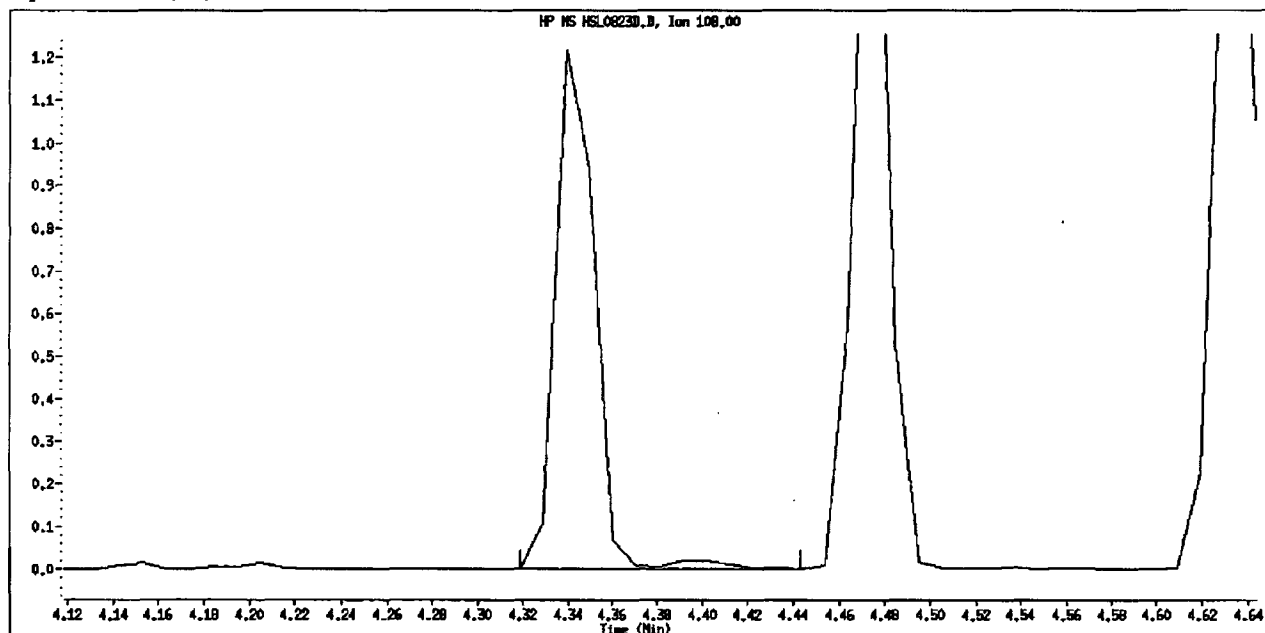
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis (2-chloroethoxy)methane	93	5.355	5.355	(0.956)	250850	50.0000	50.22
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	160069	50.0000	51.19
50 Benzoic Acid	122	5.324	5.324	(0.950)	126954	50.0000	60.75
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	174548	50.0000	49.85
52 Naphthalene	128	5.624	5.624	(1.004)	675505	50.0000	48.38
54 4-Chloroaniline	127	5.717	5.717	(1.020)	276712	50.0000	50.71 (H)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	82264	50.0000	50.53
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	196300	50.0000	52.76
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	434535	50.0000	51.00
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	101538	50.0000	56.85
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	102899	50.0000	52.12
70 2,4,5-Trichlorophenol	196	6.857	6.857	(0.889)	110752	50.0000	51.84 (H)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	364574	50.0000	48.98
73 2-Nitroaniline	65	7.189	7.189	(0.932)	129414	50.0000	56.50
76 Dimethylphthalate	163	7.458	7.458	(0.966)	436804	50.0000	50.28
77 Acenaphthylene	152	7.531	7.531	(0.976)	662377	50.0000	51.04
79 2,6-Dinitrotoluene	165	7.531	7.531	(0.976)	100573	50.0000	54.67 (M)
80 3-Nitroaniline	138	7.686	7.686	(0.996)	128681	50.0000	52.77
81 Acenaphthene	153	7.759	7.759	(1.005)	414884	50.0000	49.76
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	58321	50.0000	66.60
83 Dibenzofuran	168	7.956	7.956	(1.031)	549537	50.0000	50.20
84 4-Nitrophenol	109	7.894	7.894	(1.023)	60036	50.0000	56.00 (M)
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	136877	50.0000	53.86
91 Fluorene	166	8.401	8.401	(1.089)	455790	50.0000	51.19
92 Diethylphthalate	149	8.350	8.350	(1.082)	455938	50.0000	49.07
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	187665	50.0000	51.48
94 4-Nitroaniline	138	8.474	8.474	(1.098)	132533	50.0000	55.70
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	72789	50.0000	61.40
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	380542	58.6000	59.98
100 Azobenzene	77	8.619	8.619	(0.889)	473134	50.0000	50.09
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	98527	50.0000	50.30
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	107486	50.0000	49.94
110 Pentachlorophenol	266	9.521	9.521	(0.982)	72603	50.0000	60.89
114 Phenanthrene	178	9.728	9.728	(1.003)	662315	50.0000	50.56
115 Anthracene	178	9.801	9.801	(1.011)	671351	50.0000	52.09
118 Carbazole	167	10.060	10.060	(1.037)	629098	50.0000	52.25
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	767534	50.0000	53.34
126 Fluoranthene	202	11.624	11.624	(1.199)	606688	50.0000	53.58
127 Benzidine	184	11.894	11.894	(0.842)	469113	50.0000	56.09
128 Pyrene	202	11.987	11.987	(0.848)	660740	50.0000	47.91
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	400775	50.0000	55.08
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	351167	50.0000	52.81
138 Benzo (a) Anthracene	228	14.101	14.101	(0.998)	572037	50.0000	50.91
139 Chrysene	228	14.174	14.174	(1.003)	582798	50.0000	48.81
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.000)	208679	50.0000	54.75
141 bis (2-ethylhexyl) Phthalate	149	14.433	14.433	(1.021)	491643	50.0000	53.62
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	807651	50.0000	56.36
144 Benzo (b) fluoranthene	252	15.935	15.935	(0.964)	525609	50.0000	54.98
145 Benzo (k) fluoranthene	252	15.977	15.977	(0.967)	591853	50.0000	49.43
147 Benzo (e) pyrene	252	16.360	16.360	(0.990)	505653	50.0000	51.50
148 Benzo (a) pyrene	252	16.433	16.433	(0.994)	561548	50.0000	53.14
151 Indeno (1,2,3-cd) pyrene	276	18.267	18.267	(1.105)	448500	50.0000	53.87
152 Dibenzo (a,h) anthracene	278	18.319	18.319	(1.108)	506069	50.0000	54.23
153 Benzo (g,h,i) perylene	276	18.744	18.744	(1.134)	533156	50.0000	53.68

Compounds	QUANT SIG		RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS						CAL-AMT	ON-COL
-----	----		----	-----	-----	( NG)	( NG)	
M 162 benzo b,k Fluoranthene Totals	252					1117462	50.0000	

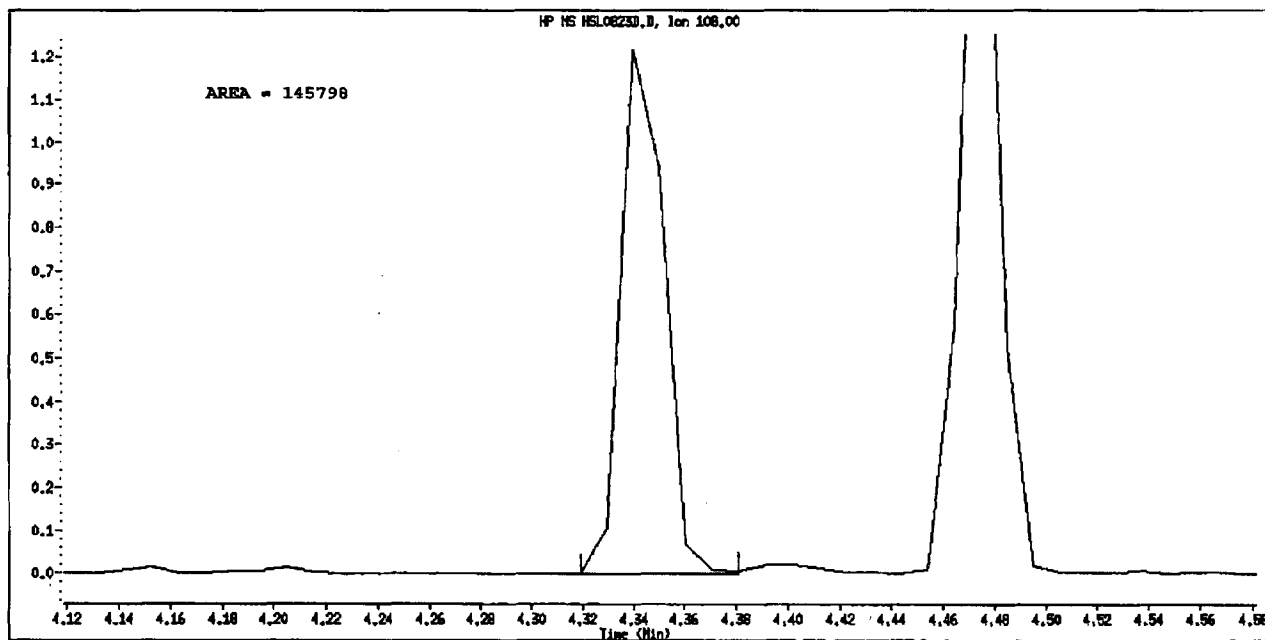
QC Flag Legend

- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: HSL0823D.D  
Inj. Date and Time: 23-AUG-2010 16:14  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Benzyl Alcohol  
CAS #: 100-51-6  
Report Date: 08/24/2010



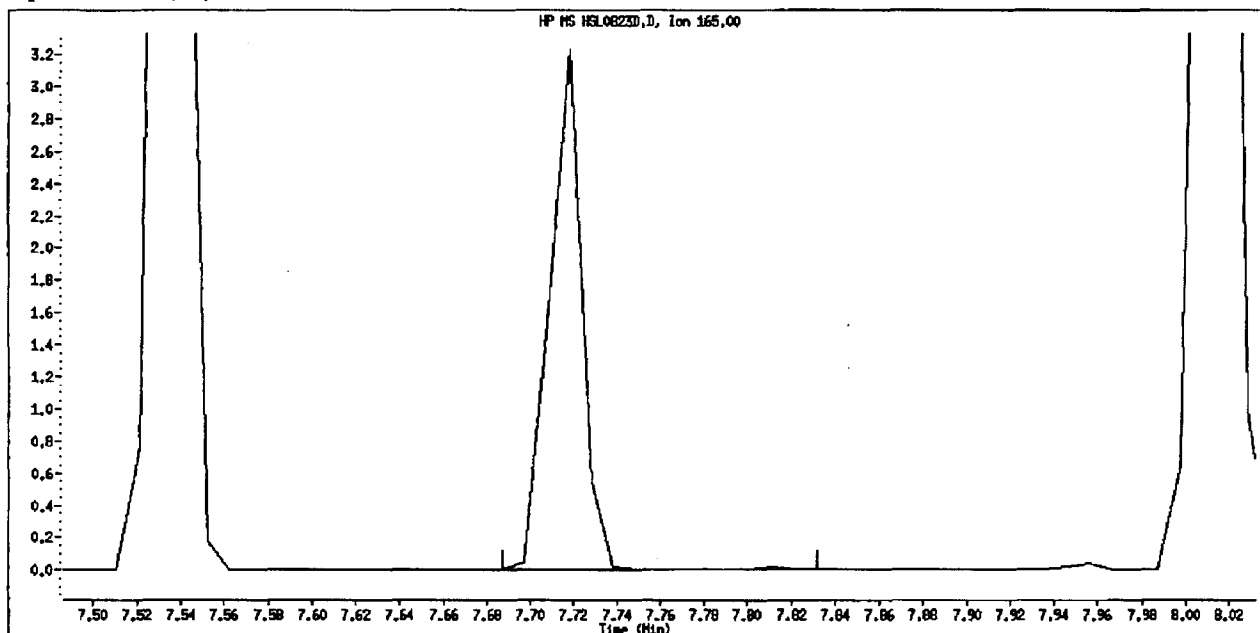
Original Integration



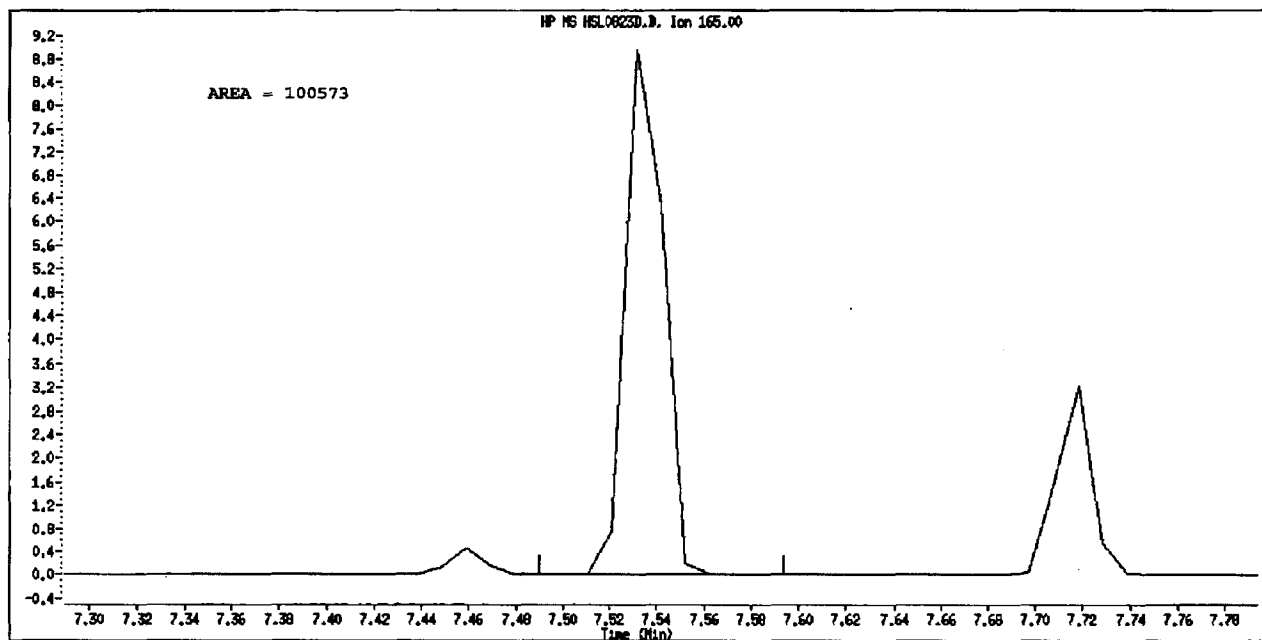
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

Data File Name: HSL0823D.D  
Inj. Date and Time: 23-AUG-2010 16:14  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 2,6-Dinitrotoluene  
CAS #: 606-20-2  
Report Date: 08/24/2010



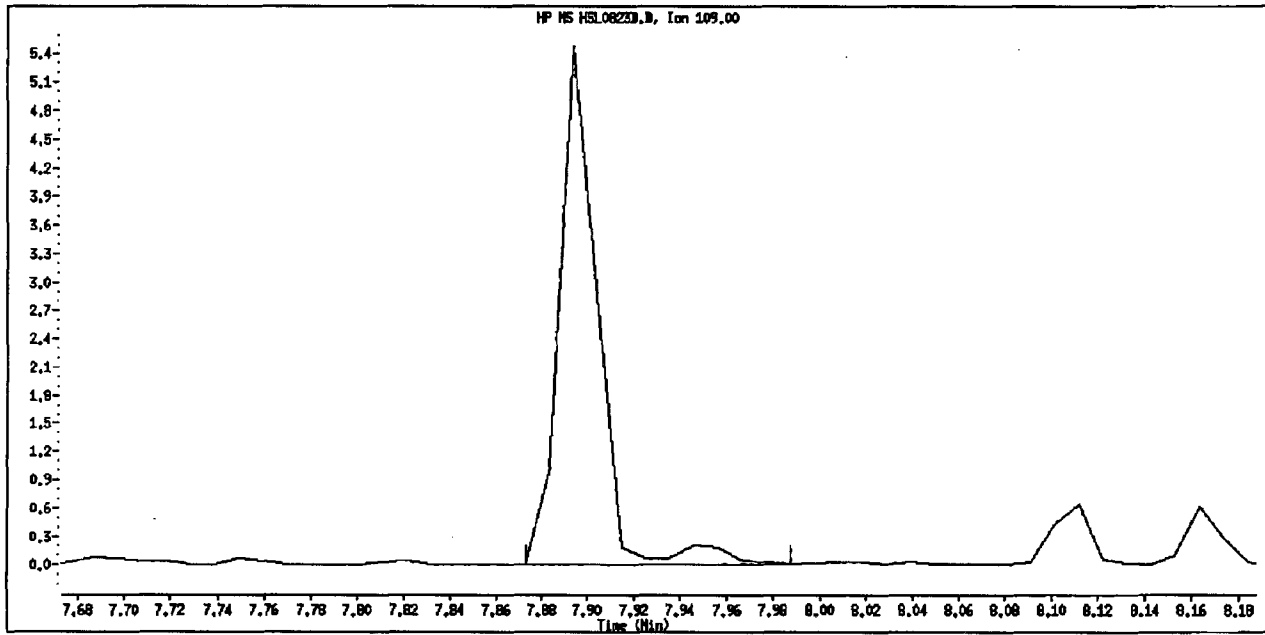
Original Integration



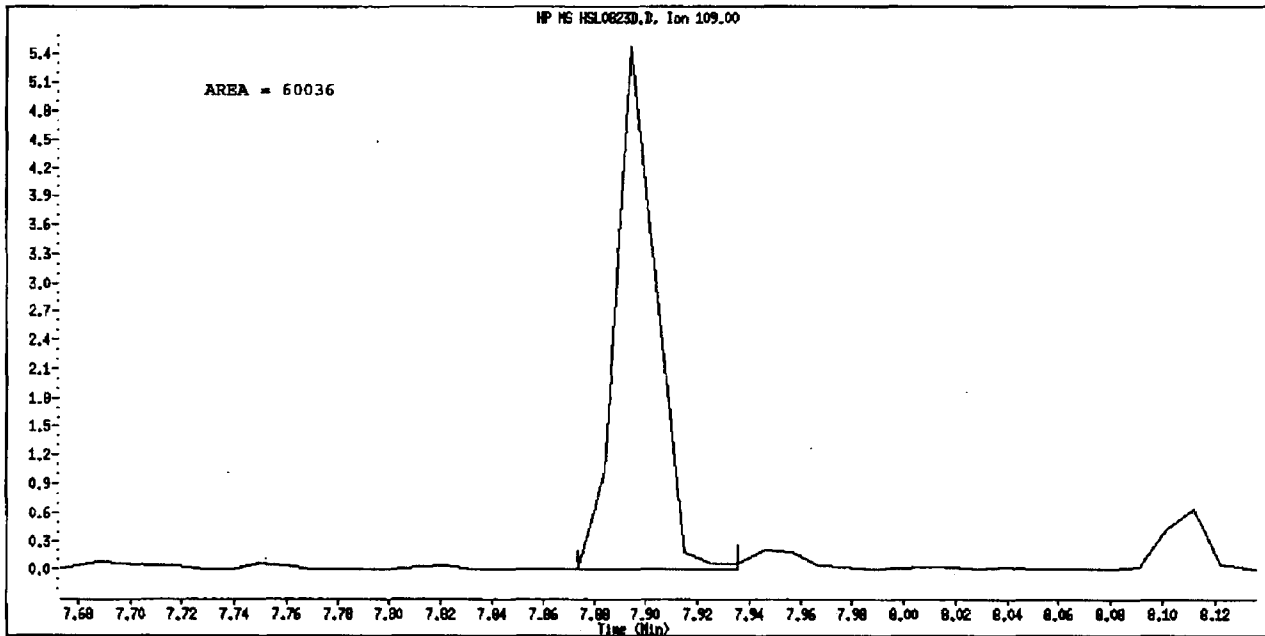
Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Wrong Peak

Data File Name: HSL0823D.D  
Inj. Date and Time: 23-AGO-2010 16:14  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: 4-Nitrophenol  
CAS #: 100-02-7  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823D.D  
 Lab Smp Id: HSL\_050 ug/ml CS-4 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 16:14  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:08 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 21:19 Cal File: AP90817D.D  
 Als bottle: 95 Calibration Sample, Level: 4  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	112399	40.0000	
* 2 Naphthalene-d8	136	5.603	5.603	(1.000)	494728	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	264752	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	415811	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	431516	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	416460	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	205458	50.0000	49.43
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	268577	50.0000	50.44
\$ 9 2-Chlorophenol-d4	132	3.976	3.976	(0.950)	221459	50.0000	49.31
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	134259	50.0000	48.05
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	220739	50.0000	49.66
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	408804	50.0000	48.79
\$ 13 2,4,6-Tribromophenol	330	8.743	8.743	(1.133)	55963	50.0000	54.03
\$ 14 Terphenyl-d14	244	12.339	12.339	(0.873)	410782	50.0000	49.20
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	139987	50.0000	48.93
16 Pyridine	79	1.956	1.956	(0.468)	229677	50.0000	48.45
23 Aniline	93	3.883	3.883	(0.928)	335570	50.0000	50.33
24 Phenol	94	3.842	3.842	(0.918)	283543	50.0000	49.88
26 Bis(2-chloroethyl) ether	93	3.945	3.945	(0.943)	210388	50.0000	49.08
27 2-Chlorophenol	128	3.997	3.997	(0.955)	222487	50.0000	50.10
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	240570	50.0000	49.11
29 1,4-Dichlorobenzene	146	4.204	4.204	(1.005)	249353	50.0000	50.25
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	149319	50.0000	48.86
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	231012	50.0000	49.30
32 2-Methylphenol	108	4.474	4.474	(1.069)	213241	50.0000	50.96
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	408964	50.0000	50.09
34 4-Methylphenol	108	4.629	4.629	(1.106)	225711	50.0000	50.67
36 Hexachloroethane	117	4.733	4.733	(1.131)	85571	50.0000	48.95
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	157958	50.0000	50.27
42 Nitrobenzene	77	4.837	4.837	(0.863)	218289	50.0000	49.61
44 Isophorone	82	5.096	5.096	(0.909)	421458	50.0000	50.46
45 2-Nitrophenol	139	5.199	5.199	(0.928)	118778	50.0000	50.19
46 2,4-Dimethylphenol	107	5.230	5.230	(0.933)	221144	50.0000	49.85

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	250850	50.0000	50.54
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	160069	50.0000	49.50
50 Benzoic Acid	122	5.324	5.324	(0.950)	126954	50.0000	48.34
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	174548	50.0000	49.87
52 Naphthalene	128	5.624	5.624	(1.004)	675505	50.0000	48.58
54 4-Chloroaniline	127	5.624	5.624	(1.004)	85478	50.0000	50.59
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	82264	50.0000	49.59
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	196300	50.0000	52.24
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	434535	50.0000	51.70
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	101538	50.0000	50.06
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	102899	50.0000	36.17
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	102899	50.0000	36.17
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	364574	50.0000	49.37
73 2-Nitroaniline	65	7.189	7.189	(0.932)	129414	50.0000	51.30
76 Dimethylphthalate	163	7.458	7.458	(0.966)	436804	50.0000	51.10
77 Acenaphthylene	152	7.531	7.531	(0.976)	662377	50.0000	51.10
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	33491	50.0000	17.36
80 3-Nitroaniline	138	7.686	7.686	(0.996)	128681	50.0000	50.77
81 Acenaphthene	153	7.759	7.759	(1.005)	414884	50.0000	50.28
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	58321	50.0000	50.59
83 Dibenzofuran	168	7.956	7.956	(1.031)	549537	50.0000	50.46
84 4-Nitrophenol	109	7.894	7.894	(1.023)	62763	50.0000	55.11
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	136877	50.0000	50.74
91 Fluorene	166	8.401	8.401	(1.089)	455790	50.0000	51.05
92 Diethylphthalate	149	8.350	8.350	(1.082)	455938	50.0000	50.88
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	187665	50.0000	51.19
94 4-Nitroaniline	138	8.474	8.474	(1.098)	132533	50.0000	52.92
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	72789	50.0000	50.48
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	380542	58.6000	58.46
100 Azobenzene	77	8.619	8.619	(0.889)	473134	50.0000	51.51
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	98527	50.0000	49.39
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	107486	50.0000	49.84
110 Pentachlorophenol	266	9.521	9.521	(0.982)	72603	50.0000	54.35
114 Phenanthrene	178	9.728	9.728	(1.003)	662315	50.0000	50.88
115 Anthracene	178	9.801	9.801	(1.011)	671351	50.0000	51.25
118 Carbazole	167	10.060	10.060	(1.037)	629098	50.0000	51.39
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	767534	50.0000	51.78
126 Fluoranthene	202	11.624	11.624	(1.199)	606688	50.0000	51.57
127 Benzidine	184	11.894	11.894	(0.842)	469113	50.0000	50.27
128 Pyrene	202	11.987	11.987	(0.848)	660740	50.0000	49.32
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	400775	50.0000	49.15
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	351167	50.0000	50.65
138 Benzo(a)Anthracene	228	14.101	14.101	(0.998)	572037	50.0000	50.14
139 Chrysene	228	14.174	14.174	(1.003)	582798	50.0000	49.38
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.000)	208679	50.0000	50.32
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.021)	491643	50.0000	51.30
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	807651	50.0000	49.78
144 Benzo(b)fluoranthene	252	15.935	15.935	(0.964)	525609	50.0000	53.16
145 Benzo(k)fluoranthene	252	15.977	15.977	(0.967)	591853	50.0000	51.06
147 Benzo(e)pyrene	252	16.360	16.360	(0.990)	505653	50.0000	51.59
148 Benzo(a)pyrene	252	16.433	16.433	(0.994)	561548	50.0000	51.90
151 Indeno(1,2,3-cd)pyrene	276	18.267	18.267	(1.105)	448500	50.0000	41.84
152 Dibenzo(a,h)anthracene	278	18.319	18.319	(1.108)	506069	50.0000	51.56
153 Benzo(g,h,i)perylene	276	18.744	18.744	(1.134)	533156	50.0000	50.88



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
-----	----	----	-----	-----	( NG)	( NG)	
M 162 benzo b,k Fluoranthene Totals	252				1117462	50.0000	52.03 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823D.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\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0310;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

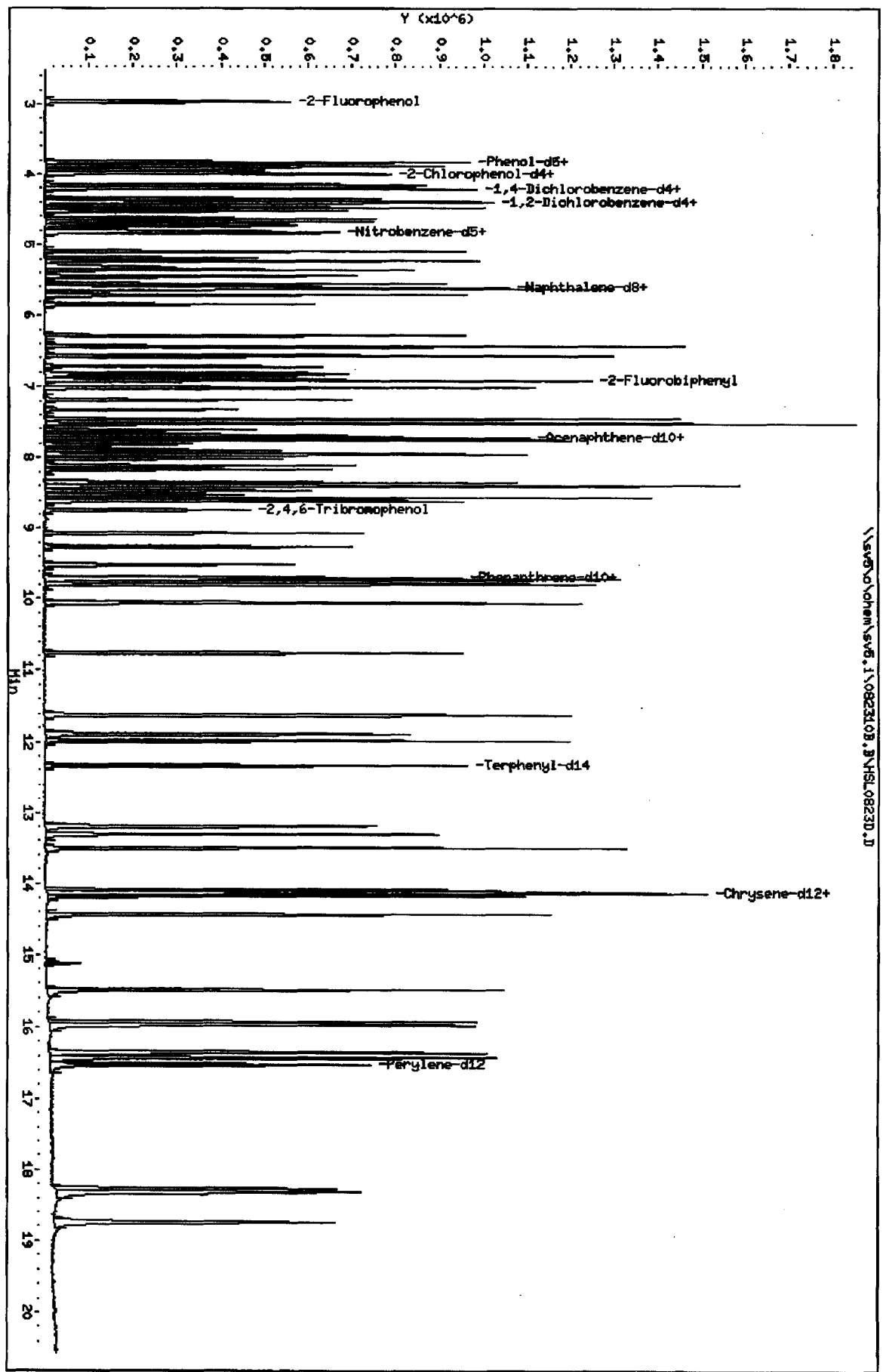
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	112399	0.00
2 Naphthalene-d8	494728	247364	989456	494728	0.00
3 Acenaphthene-d10	264752	132376	529504	264752	0.00
4 Phenanthrene-d10	415811	207906	831622	415811	0.00
5 Chrysene-d12	431516	215758	863032	431516	0.00
6 Perylene-d12	416460	208230	832920	416460	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.13	0.00
6 Perylene-d12	16.53	16.03	17.03	16.53	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\0823108.B\HSL0823D.D  
 Date: 23-AUG-2010 16:14  
 Client ID: 8270F.M  
 Sample Info: HSL\_080 ug/ml CS-4111411114  
 Column phase:

Instrument: sv5.i  
 Operator: KT  
 Column diameter: 2.00



\\sv5\chem\sv5.1\0823108.B\HSL0823D.D

TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823E.D  
 Lab Smp Id: HSL 080 ug/ml CS-5 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:58  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 15:55 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 22:37 Cal File: AP90817C.D  
 Als bottle: 96 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	118396	40.0000	(Q)
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	521662	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	277616	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	436069	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	433224	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	427303	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	349327	80.0000	80.26
\$ 8 Phenol-d5	99	3.831	3.831	(0.916)	457687	80.0000	81.62
\$ 9 2-Chlorophenol-d4	132	3.977	3.977	(0.950)	378697	80.0000	80.34
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	231328	80.0000	78.69
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	378263	80.0000	81.91
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	694956	80.0000	78.98
\$ 13 2,4,6-Tribromophenol	330	8.744	8.744	(1.133)	92395	80.0000	87.53
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.873)	681363	80.0000	79.79
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	238169	80.0000	78.91
16 Pyridine	79	1.956	1.956	(0.468)	394667	80.0000	79.31
23 Aniline	93	3.883	3.883	(0.928)	565523	80.0000	80.55
24 Phenol	94	3.842	3.842	(0.918)	474870	80.0000	80.12
26 Bis(2-chloroethyl)ether	93	3.945	3.945	(0.943)	354092	80.0000	78.00
27 2-Chlorophenol	128	3.997	3.997	(0.955)	372871	80.0000	79.53
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	407979	80.0000	79.25
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	415272	80.0000	79.51
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	256102	80.0000	80.33
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	389664	80.0000	78.83
32 2-Methylphenol	108	4.474	4.474	(1.069)	356302	80.0000	80.74
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	684328	80.0000	76.95
34 4-Methylphenol	108	4.640	4.640	(1.109)	380682	80.0000	81.23
36 Hexachloroethane	117	4.733	4.733	(1.131)	148577	80.0000	81.42
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	262998	80.0000	78.83
42 Nitrobenzene	77	4.837	4.837	(0.863)	376430	80.0000	81.32
44 Isophorone	82	5.096	5.096	(0.909)	719749	80.0000	81.28
45 2-Nitrophenol	139	5.199	5.199	(0.928)	208879	80.0000	86.55
46 2,4-Dimethylphenol	107	5.231	5.231	(0.933)	380072	80.0000	81.37

*SMG/24/10*

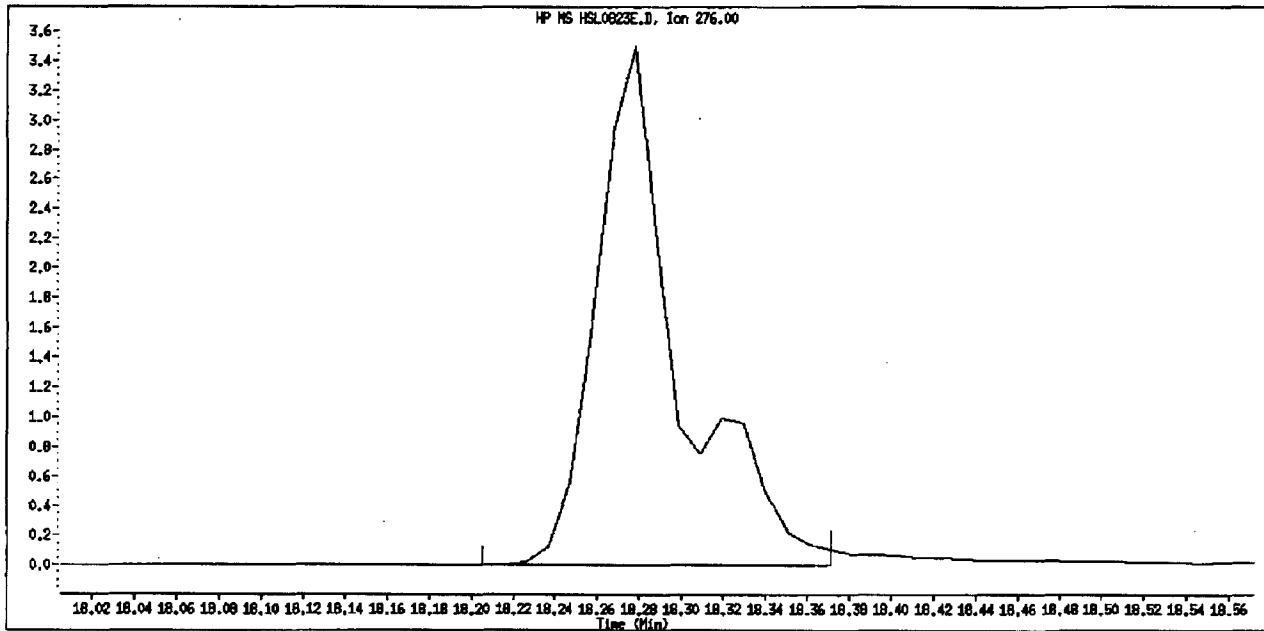
Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	421499	80.0000	79.92
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	277736	80.0000	82.33
50 Benzoic Acid	122	5.344	5.344	(0.954)	224297	80.0000	91.52
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	288837	80.0000	78.36
52 Naphthalene	128	5.624	5.624	(1.004)	1171030	80.0000	80.74
54 4-Chloroaniline	127	5.718	5.718	(1.020)	470189	80.0000	91.41 (H)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	140316	80.0000	80.89
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	328023	80.0000	82.80
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	715842	80.0000	80.29
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	168858	80.0000	82.19
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	173839	80.0000	84.00 (Q)
70 2,4,5-Trichlorophenol	196	6.858	6.858	(0.889)	184619	80.0000	81.32 (QH)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	624038	80.0000	80.70
73 2-Nitroaniline	65	7.189	7.189	(0.932)	220569	80.0000	85.11
76 Dimethylphthalate	163	7.459	7.459	(0.966)	718184	80.0000	79.67
77 Acenaphthylene	152	7.531	7.531	(0.976)	1093153	80.0000	80.40
79 2,6-Dinitrotoluene	165	7.531	7.531	(0.976)	165501	80.0000	83.70 (H)
80 3-Nitroaniline	138	7.697	7.697	(0.997)	221843	80.0000	83.71
81 Acenaphthene	153	7.759	7.759	(1.005)	691306	80.0000	80.04
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	98584	80.0000	93.12
83 Dibenzofuran	168	7.956	7.956	(1.031)	917683	80.0000	80.33
84 4-Nitrophenol	109	7.894	7.894	(1.023)	94857	80.0000	81.03
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	224616	80.0000	80.48
91 Fluorene	166	8.402	8.402	(1.089)	750264	80.0000	80.34
92 Diethylphthalate	149	8.350	8.350	(1.082)	746547	80.0000	79.03
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	307153	80.0000	79.67
94 4-Nitroaniline	138	8.474	8.474	(1.098)	223757	80.0000	86.53
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	120703	80.0000	87.04
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	626209	93.7000	91.64
100 Azobenzene	77	8.619	8.619	(0.889)	781341	80.0000	80.04
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	164903	80.0000	79.37
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	177558	80.0000	78.91
110 Pentachlorophenol	266	9.521	9.521	(0.982)	116533	80.0000	86.74
114 Phenanthrene	178	9.728	9.728	(1.003)	1069179	80.0000	78.25
115 Anthracene	178	9.801	9.801	(1.011)	1098761	80.0000	80.04
118 Carbazole	167	10.060	10.060	(1.037)	1005124	80.0000	78.42
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	1260294	80.0000	81.80
126 Fluoranthene	202	11.624	11.624	(1.199)	987325	80.0000	81.18
127 Benzidine	184	11.894	11.894	(0.842)	755077	80.0000	82.91
128 Pyrene	202	11.987	11.987	(0.848)	1092442	80.0000	79.17
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	657222	80.0000	83.25
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	581081	80.0000	82.62
138 Benzo(a)Anthracene	228	14.101	14.101	(0.998)	927617	80.0000	80.74
139 Chrysene	228	14.174	14.174	(1.003)	938282	80.0000	78.59
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.000)	345775	80.0000	83.91
141 bis(2-ethylhexyl) Phthalate	149	14.433	14.433	(1.021)	803315	80.0000	83.56
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	1314136	80.0000	84.71
144 Benzo(b)fluoranthene	252	15.936	15.936	(0.964)	834970	80.0000	84.58
145 Benzo(k)fluoranthene	252	15.977	15.977	(0.967)	982280	80.0000	80.06
147 Benzo(e)pyrene	252	16.360	16.360	(0.990)	828798	80.0000	82.17
148 Benzo(a)pyrene	252	16.433	16.433	(0.994)	906314	80.0000	81.15
151 Indeno(1,2,3-cd)pyrene	276	18.278	18.278	(1.106)	783078	80.0000	85.78 (M)
152 Dibenzo(a,h)anthracene	278	18.329	18.329	(1.109)	835131	80.0000	84.28
153 Benzo(g,h,i)perylene	276	18.754	18.754	(1.135)	859178	80.0000	80.72

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
-----	----		----	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252					1817250	80.0000	

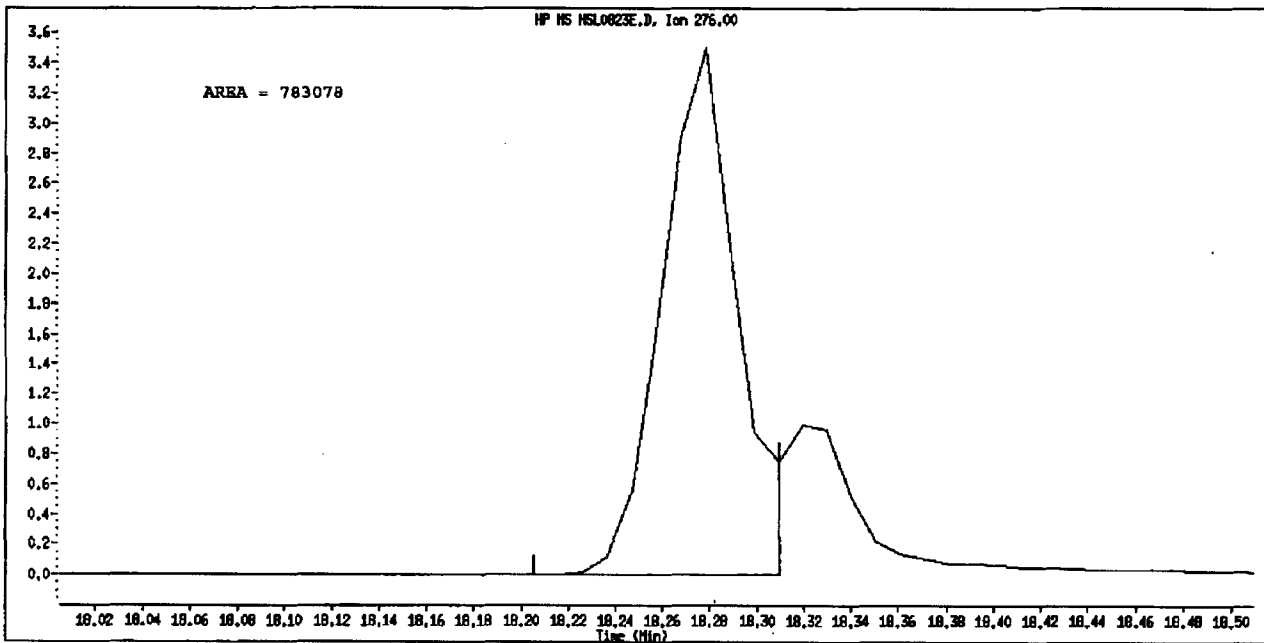
QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: HSL0823E.D  
Inj. Date and Time: 23-AUG-2010 17:58  
Instrument ID: sv5.1  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography

TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823E.D  
 Lab Smp Id: HSL 080 ug/ml CS-5 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 17:58  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:12 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:03 Cal File: AP90817E.D  
 Alg bottle: 96 Calibration Sample, Level: 5  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	118396	40.0000	
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	521662	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	277616	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	436069	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	433224	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	427303	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	349327	80.0000	79.78
\$ 8 Phenol-d5	99	3.831	3.831	(0.916)	457687	80.0000	81.61
\$ 9 2-Chlorophenol-d4	132	3.977	3.977	(0.950)	378697	80.0000	80.06
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	231328	80.0000	78.60
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	378263	80.0000	80.71
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	694956	80.0000	79.10
\$ 13 2,4,6-Tribromophenol	330	8.744	8.744	(1.133)	92395	80.0000	85.08
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.873)	681363	80.0000	81.28
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	238169	80.0000	79.04
16 Pyridine	79	1.956	1.956	(0.468)	394667	80.0000	79.04
23 Aniline	93	3.883	3.883	(0.928)	565523	80.0000	80.53
24 Phenol	94	3.842	3.842	(0.918)	474870	80.0000	79.31
26 Bis(2-chloroethyl) ether	93	3.945	3.945	(0.943)	354092	80.0000	78.42
27 2-Chlorophenol	128	3.997	3.997	(0.955)	372871	80.0000	79.72
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	407979	80.0000	79.06
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	415272	80.0000	79.44
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	256102	80.0000	79.82
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	389664	80.0000	78.94
32 2-Methylphenol	108	4.474	4.474	(1.069)	356302	80.0000	80.84
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	684328	80.0000	79.57
34 4-Methylphenol	108	4.640	4.640	(1.109)	380682	80.0000	81.14
36 Hexachloroethane	117	4.733	4.733	(1.131)	148577	80.0000	80.69
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	262998	80.0000	79.46
42 Nitrobenzene	77	4.837	4.837	(0.863)	376430	80.0000	81.14
44 Isophorone	82	5.096	5.096	(0.909)	719749	80.0000	81.72
45 2-Nitrophenol	139	5.199	5.199	(0.928)	208879	80.0000	83.71
46 2,4-Dimethylphenol	107	5.231	5.231	(0.933)	380072	80.0000	81.26



Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	421499	80.0000	80.54
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	277736	80.0000	81.46
50 Benzoic Acid	122	5.344	5.344	(0.954)	224297	80.0000	78.13
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	288837	80.0000	78.26
52 Naphthalene	128	5.624	5.624	(1.004)	1171030	80.0000	79.87
54 4-Chloroaniline	127	5.624	5.624	(1.004)	146902	80.0000	82.46
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	140316	80.0000	80.22
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	328023	80.0000	82.79
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	715842	80.0000	80.76
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	168858	80.0000	79.39
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	173839	80.0000	58.28
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	173839	80.0000	57.82
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	624038	80.0000	80.59
73 2-Nitroaniline	65	7.189	7.189	(0.932)	220569	80.0000	83.38
76 Dimethylphthalate	163	7.459	7.459	(0.966)	718184	80.0000	80.12
77 Acenaphthylene	152	7.531	7.531	(0.976)	1093153	80.0000	80.43
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	35207	80.0000	15.83
80 3-Nitroaniline	138	7.697	7.697	(0.997)	221843	80.0000	83.46
81 Acenaphthene	153	7.759	7.759	(1.005)	691306	80.0000	79.89
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	98584	80.0000	77.70
83 Dibenzofuran	168	7.956	7.956	(1.031)	917683	80.0000	80.36
84 4-Nitrophenol	109	7.894	7.894	(1.023)	94857	80.0000	79.98
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	224616	80.0000	78.29
91 Fluorene	166	8.402	8.402	(1.089)	750264	80.0000	80.13
92 Diethylphthalate	149	8.350	8.350	(1.082)	746547	80.0000	79.46
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	307153	80.0000	79.91
94 4-Nitroaniline	138	8.474	8.474	(1.098)	223757	80.0000	85.21
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	120703	80.0000	76.86
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	626209	93.7000	91.73
100 Azobenzene	77	8.619	8.619	(0.889)	781341	80.0000	81.11
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	164903	80.0000	78.82
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	177558	80.0000	78.51
110 Pentachlorophenol	266	9.521	9.521	(0.982)	116533	80.0000	83.19
114 Phenanthrene	178	9.728	9.728	(1.003)	1069179	80.0000	78.31
115 Anthracene	178	9.801	9.801	(1.011)	1098761	80.0000	79.98
118 Carbazole	167	10.060	10.060	(1.037)	1005124	80.0000	78.30
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	1260294	80.0000	81.07
126 Fluoranthene	202	11.624	11.624	(1.199)	987325	80.0000	80.02
127 Benzidine	184	11.894	11.894	(0.842)	755077	80.0000	79.41
128 Pyrene	202	11.987	11.987	(0.848)	1092442	80.0000	81.22
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	657222	80.0000	78.62
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	581081	80.0000	83.49
138 Benzo(a)Anthracene	228	14.101	14.101	(0.998)	927617	80.0000	80.99
139 Chrysene	228	14.174	14.174	(1.003)	938282	80.0000	79.18
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.000)	345775	80.0000	83.05
141 bis(2-ethylhexyl)Phtthalate	149	14.433	14.433	(1.021)	803315	80.0000	83.49
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	1314136	80.0000	78.76
144 Benzo(b)fluoranthene	252	15.936	15.936	(0.964)	834970	80.0000	82.31
145 Benzo(k)fluoranthene	252	15.977	15.977	(0.967)	982280	80.0000	82.59
147 Benzo(e)pyrene	252	16.360	16.360	(0.990)	828798	80.0000	82.41
148 Benzo(a)pyrene	252	16.433	16.433	(0.994)	906314	80.0000	81.64
151 Indeno(1,2,3-cd)pyrene	276	18.278	18.278	(1.106)	961862	80.0000	87.46
152 Dibenzo(a,h)anthracene	278	18.329	18.329	(1.109)	835131	80.0000	82.93
153 Benzo(g,h,i)perylene	276	18.754	18.754	(1.135)	859178	80.0000	79.90

Compounds	QUANT SIG		AMOUNTS					
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
=====	====		====	-----	-----	-----	-----	-----
M 162 benzo b,k Fluoranthene Totals	252					1817250	80.0000	82.46 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i Calibration Date: 23-AUG-2010  
 Lab File ID: HSL0823E.D Calibration Time: 16:14  
 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\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0311;0;8270F.M

Test Mode:  
 Use Initial Calibration Level 4.

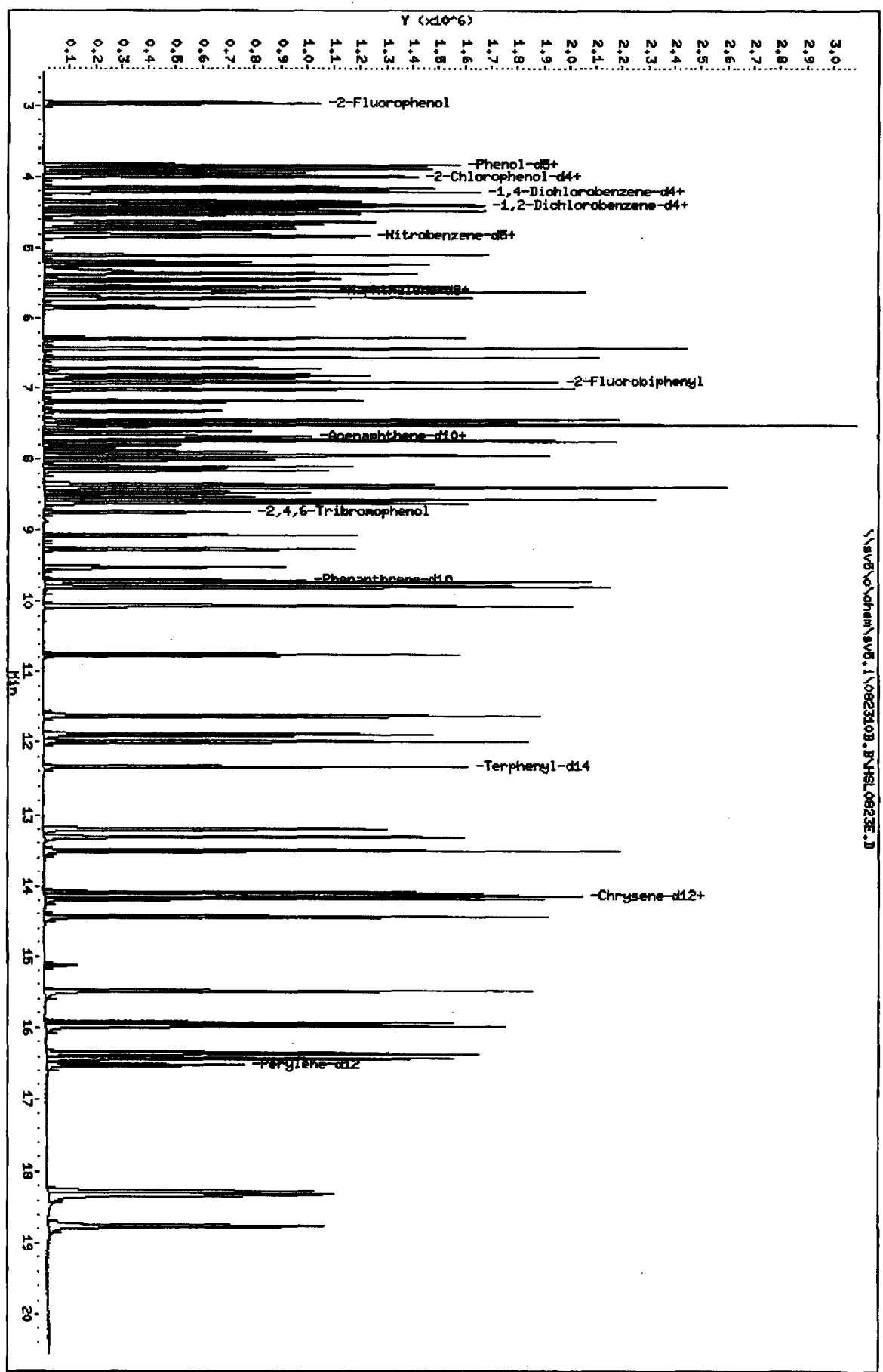
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	118396	5.34
2 Naphthalene-d8	494728	247364	989456	521662	5.44
3 Acenaphthene-d10	264752	132376	529504	277616	4.86
4 Phenanthrene-d10	415811	207906	831622	436069	4.87
5 Chrysene-d12	431516	215758	863032	433224	0.40
6 Perylene-d12	416460	208230	832920	427303	2.60

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.13	0.00
6 Perylene-d12	16.53	16.03	17.03	16.53	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\volchem\svb.1\0823108.B\HSL0823E.D  
 Date: 23-AUG-2010 17:09  
 Client ID: 8270F.H  
 Sample Info: HSL\_090 ug/ml CS-51115114  
 Column phase: 1

Instrument: svb.1  
 Operator: KT  
 Column diameter: 2.00



\\svb\volchem\svb.1\0823108.B\HSL0823E.D

TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823F.D  
 Lab Smp Id: HSL 120 ug/ml CS-6 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 18:24  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 15:55 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:03 Cal File: AP90817E.D  
 Als bottle: 97 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	139998	40.0000	(Q)	
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	623524	40.0000		
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	330719	40.0000		
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	502993	40.0000		
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	514783	40.0000		
* 6 Perylene-d12	264	16.526	16.526	(1.000)	517085	40.0000		
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	647929	120.000	126.2	
\$ 8 Phenol-d5	99	3.831	3.831	(0.916)	829177	120.000	125.2	
\$ 9 2-Chlorophenol-d4	132	3.987	3.987	(0.953)	688487	120.000	123.6	
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	415463	120.000	119.6	
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	688897	120.000	124.4	
\$ 12 2-Fluorobiphenyl	172	6.920	6.920	(0.897)	1275912	120.000	122.0	
\$ 13 2,4,6-Tribromophenol	330	8.754	8.754	(1.134)	169029	120.000	132.5	
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.873)	1231900	120.000	121.8	
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	441948	120.000	124.4	
16 Pyridine	79	1.956	1.956	(0.468)	711971	120.000	121.0	
23 Aniline	93	3.883	3.883	(0.928)	1038009	120.000	125.3	
24 Phenol	94	3.842	3.842	(0.918)	865471	120.000	124.1	
26 Bis(2-chloroethyl) ether	93	3.945	3.945	(0.943)	656521	120.000	123.1	
27 2-Chlorophenol	128	3.997	3.997	(0.955)	674566	120.000	121.8	
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	738531	120.000	121.5	
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	762673	120.000	123.6	
30 Benzyl Alcohol	108	4.350	4.350	(1.040)	482260	120.000	127.9	
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	697407	120.000	119.5	
32 2-Methylphenol	108	4.474	4.474	(1.069)	651136	120.000	124.9	
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	1247327	120.000	120.2	
34 4-Methylphenol	108	4.640	4.640	(1.109)	696004	120.000	125.5	
36 Hexachloroethane	117	4.733	4.733	(1.131)	267836	120.000	123.4	
37 N-Nitrosodipropylamine	70	4.681	4.681	(1.119)	486640	120.000	124.0	
42 Nitrobenzene	77	4.837	4.837	(0.863)	680661	120.000	122.7	
44 Isophorone	82	5.096	5.096	(0.909)	1331537	120.000	126.2	
45 2-Nitrophenol	139	5.199	5.199	(0.928)	385434	120.000	131.6	
46 2,4-Dimethylphenol	107	5.241	5.241	(0.935)	698549	120.000	125.2	

*Handwritten signature/initials*

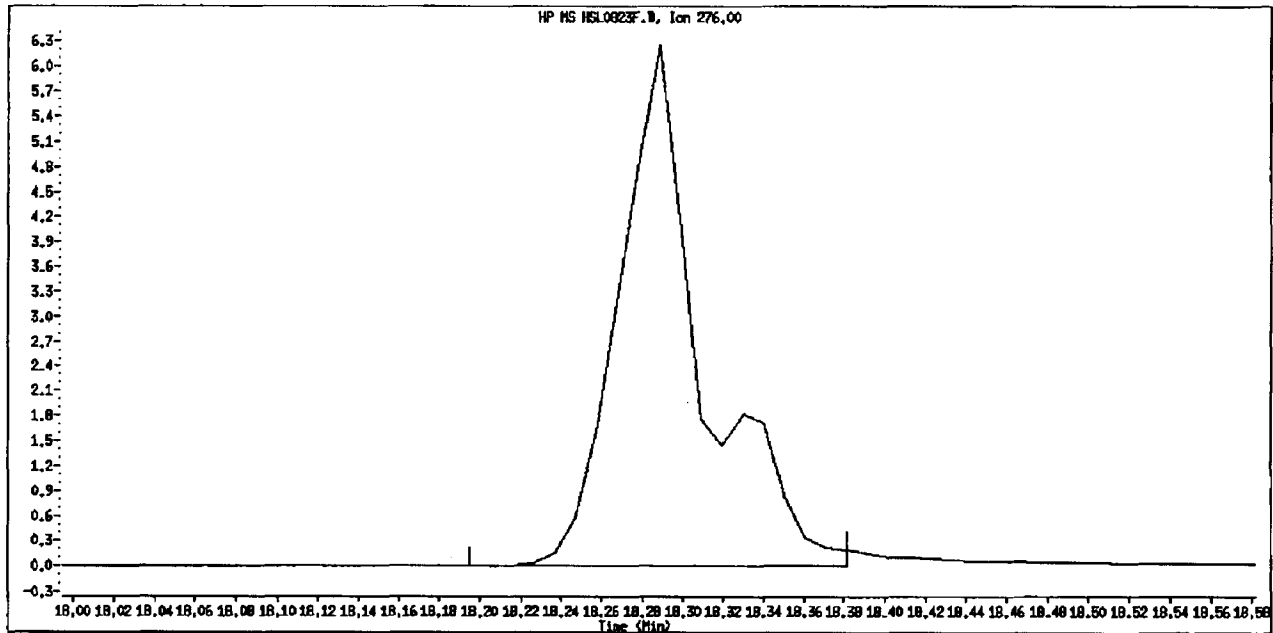
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	747512	120.000	119.0
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	508025	120.000	125.4
50 Benzoic Acid	122	5.365	5.365	(0.957)	443415	120.000	140.0
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	529852	120.000	120.5
52 Naphthalene	128	5.635	5.635	(1.006)	2106745	120.000	121.3
54 4-Chloroaniline	127	5.718	5.718	(1.020)	838279	120.000	136.0 (H)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	252144	120.000	121.4
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	601198	120.000	126.9
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	1305904	120.000	122.8
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	321896	120.000	129.8
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	316513	120.000	127.8
70 2,4,5-Trichlorophenol	196	6.857	6.857	(0.889)	339511	120.000	126.0 (H)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	1113383	120.000	120.5
73 2-Nitroaniline	65	7.189	7.189	(0.932)	402791	120.000	128.7
76 Dimethylphthalate	163	7.469	7.469	(0.968)	1315619	120.000	122.7
77 Acenaphthylene	152	7.531	7.531	(0.976)	2006990	120.000	124.0
79 2,6-Dinitrotoluene	165	7.541	7.541	(0.977)	305996	120.000	129.3 (K)
80 3-Nitroaniline	138	7.697	7.697	(0.997)	389682	120.000	122.4
81 Acenaphthene	153	7.759	7.759	(1.005)	1245725	120.000	120.9
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	196121	120.000	140.3
83 Dibenzofuran	168	7.956	7.956	(1.031)	1636051	120.000	120.2
84 4-Nitrophenol	109	7.904	7.904	(1.024)	179608	120.000	128.6
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	410093	120.000	120.9
91 Fluorene	166	8.402	8.402	(1.089)	1360805	120.000	122.3
92 Diethylphthalate	149	8.360	8.360	(1.083)	1343713	120.000	119.4
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	539486	120.000	117.4
94 4-Nitroaniline	138	8.484	8.484	(1.099)	387157	120.000	124.4
97 4,6-Dinitro-2-methylphenol	198	8.547	8.547	(0.881)	236110	120.000	142.5
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	1125545	141.000	143.6
100 Azobenzene	77	8.619	8.619	(0.889)	1367761	120.000	122.1
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	306346	120.000	128.5
108 Hexachlorobenzene	284	9.272	9.272	(0.956)	322782	120.000	124.2
110 Pentachlorophenol	266	9.521	9.521	(0.982)	221518	120.000	141.2
114 Phenanthrene	178	9.738	9.738	(1.004)	1929658	120.000	123.1
115 Anthracene	178	9.801	9.801	(1.011)	1973943	120.000	125.1
118 Carbazole	167	10.060	10.060	(1.037)	1862634	120.000	126.4
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	2369090	120.000	133.7
126 Fluoranthene	202	11.624	11.624	(1.199)	1814661	120.000	129.8
127 Benzidine	184	11.894	11.894	(0.842)	1380400	120.000	121.1
128 Pyrene	202	11.998	11.998	(0.849)	1979871	120.000	121.4
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	1241986	120.000	124.9
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	1073884	120.000	128.5
138 Benzo(a)Anthracene	228	14.101	14.101	(0.998)	1701674	120.000	124.5
139 Chrysene	228	14.184	14.184	(1.004)	1701698	120.000	120.5
140 3,3'-Dichlorobenzidine	252	14.143	14.143	(1.001)	640756	120.000	130.1
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.021)	1494173	120.000	130.3
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	2478465	120.000	126.7
144 Benzo(b)fluoranthene	252	15.946	15.946	(0.965)	1659701	120.000	137.8
145 Benzo(k)fluoranthene	252	15.987	15.987	(0.967)	1677335	120.000	113.0
147 Benzo(e)pyrene	252	16.371	16.371	(0.991)	1515891	120.000	123.8
148 Benzo(a)pyrene	252	16.443	16.443	(0.995)	1659729	120.000	122.6
151 Indeno(1,2,3-cd)pyrene	276	18.288	18.288	(1.107)	1493689	120.000	133.0 (M)
152 Dibenzo(a,h)anthracene	278	18.340	18.340	(1.110)	1555660	120.000	128.6
153 Benzo(g,h,i)perylene	276	18.765	18.765	(1.135)	1624809	120.000	125.6

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS					CAL-AMT	ON-COL
-----	----	----	-----	-----	-----	-----	
M 162 benzo b,k Fluoranthene Totals	252				3337036	120.000	

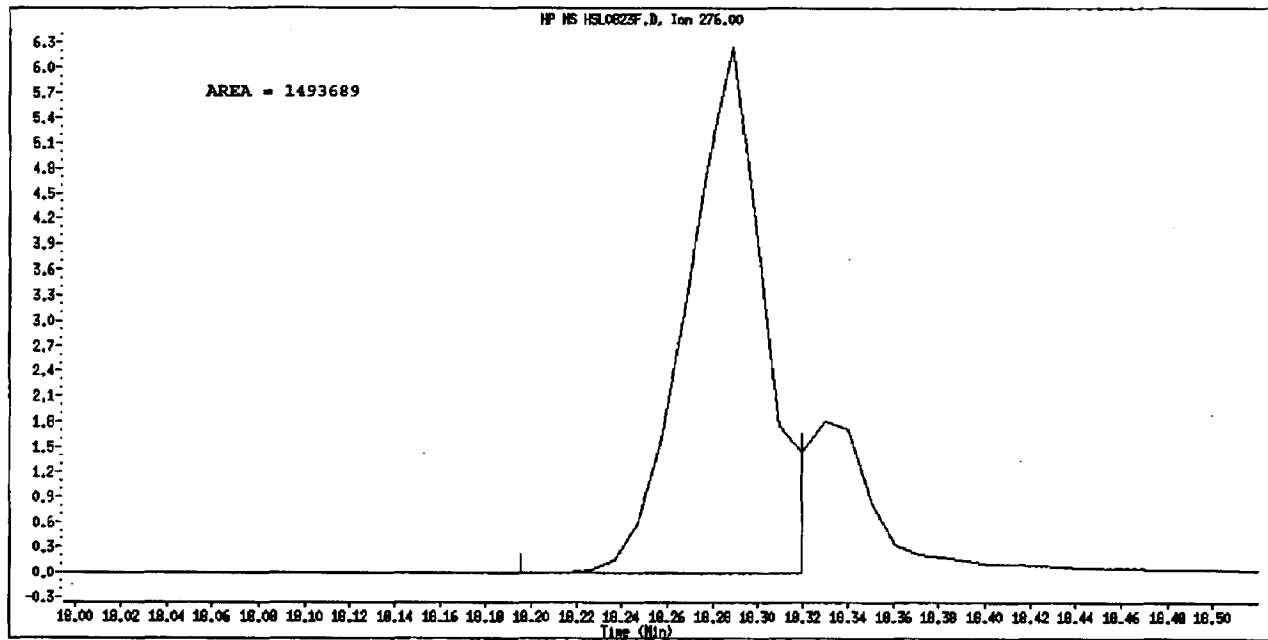
QC Flag Legend

- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.

Data File Name: HSL0823F.D  
Inj. Date and Time: 23-AUG-2010 18:24  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Indeno(1,2,3-cd)pyrene  
CAS #: 193-39-5  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx  
Manual Integration Reason: Poor Chromatography



TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823F.D  
 Lab Smp Id: HSL\_120 ug/ml CS-6 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 18:24  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:12 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:29 Cal File: AP90817F.D  
 Als bottle: 97 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	139998	40.0000	
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	623524	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	330719	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	502993	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	514783	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	517085	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	647929	120.000	125.1
\$ 8 Phenol-d5	99	3.831	3.831	(0.916)	829177	120.000	125.0
\$ 9 2-Chlorophenol-d4	132	3.987	3.987	(0.953)	688487	120.000	123.1
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	415463	120.000	119.4
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	688897	120.000	123.0
\$ 12 2-Fluorobiphenyl	172	6.920	6.920	(0.897)	1275912	120.000	121.9
\$ 13 2,4,6-Tribromophenol	330	8.754	8.754	(1.134)	169029	120.000	130.6
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.873)	1231900	120.000	123.7
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	441948	120.000	124.0
16 Pyridine	79	1.956	1.956	(0.468)	711971	120.000	120.6
23 Aniline	93	3.883	3.883	(0.928)	1038009	120.000	125.0
24 Phenol	94	3.842	3.842	(0.918)	865471	120.000	122.2
26 Bis(2-chloroethyl) ether	93	3.945	3.945	(0.943)	656521	120.000	123.0
27 2-Chlorophenol	128	3.997	3.997	(0.955)	674566	120.000	122.0
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	738531	120.000	121.0
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	762673	120.000	123.4
30 Benzyl Alcohol	108	4.350	4.350	(1.040)	482260	120.000	127.1
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	697407	120.000	119.5
32 2-Methylphenol	108	4.474	4.474	(1.069)	651136	120.000	124.9
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	1247327	120.000	122.6
34 4-Methylphenol	108	4.640	4.640	(1.109)	696004	120.000	125.4
36 Hexachloroethane	117	4.733	4.733	(1.131)	267836	120.000	123.0
37 N-Nitrosodipropylamine	70	4.681	4.681	(1.119)	486640	120.000	124.3
42 Nitrobenzene	77	4.837	4.837	(0.863)	680661	120.000	122.7
44 Isophorone	82	5.096	5.096	(0.909)	1331537	120.000	126.5
45 2-Nitrophenol	139	5.199	5.199	(0.928)	385434	120.000	129.2
46 2,4-Dimethylphenol	107	5.241	5.241	(0.935)	698549	120.000	124.9

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	747512	120.000	119.5
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	508025	120.000	124.7
50 Benzoic Acid	122	5.365	5.365	(0.957)	443415	120.000	124.7
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	529852	120.000	120.1
52 Naphthalene	128	5.635	5.635	(1.006)	2105745	120.000	120.2
54 4-Chloroaniline	127	5.635	5.635	(1.006)	258254	120.000	121.3
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	252144	120.000	120.6
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	601198	120.000	126.9
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	1305904	120.000	123.3
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	321896	120.000	127.0
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	316513	120.000	89.07
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	316513	120.000	88.37
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	1113383	120.000	120.7
73 2-Nitroaniline	65	7.189	7.189	(0.932)	402791	120.000	127.8
76 Dimethylphthalate	163	7.469	7.469	(0.968)	1315619	120.000	123.2
77 Acenaphthylene	152	7.531	7.531	(0.976)	2006990	120.000	124.0
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	44200	120.000	16.68
80 3-Nitroaniline	138	7.697	7.697	(0.997)	389682	120.000	123.1
81 Acenaphthene	153	7.759	7.759	(1.005)	1245725	120.000	120.8
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	196121	120.000	122.3
83 Dibenzofuran	168	7.956	7.956	(1.031)	1636051	120.000	120.3
84 4-Nitrophenol	109	7.904	7.904	(1.024)	179608	120.000	127.1
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	410093	120.000	118.9
91 Fluorene	166	8.402	8.402	(1.089)	1360805	120.000	122.0
92 Diethylphthalate	149	8.360	8.360	(1.083)	1343713	120.000	120.0
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	539486	120.000	117.8
94 4-Nitroaniline	138	8.484	8.484	(1.099)	387157	120.000	123.8
97 4,6-Dinitro-2-methylphenol	198	8.547	8.547	(0.881)	236110	120.000	123.9
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	1125545	141.000	142.9
100 Azobenzene	77	8.619	8.619	(0.889)	1367761	120.000	123.1
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	306346	120.000	127.0
108 Hexachlorobenzene	284	9.272	9.272	(0.956)	322782	120.000	123.7
110 Pentachlorophenol	266	9.521	9.521	(0.982)	221518	120.000	137.1
114 Phenanthrene	178	9.738	9.738	(1.004)	1929658	120.000	122.5
115 Anthracene	178	9.801	9.801	(1.011)	1973943	120.000	124.6
118 Carbazole	167	10.060	10.060	(1.037)	1862634	120.000	125.8
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	2369090	120.000	132.1
126 Fluoranthene	202	11.624	11.624	(1.199)	1814661	120.000	127.5
127 Benzidine	184	11.894	11.894	(0.842)	1380400	120.000	120.7
128 Pyrene	202	11.998	11.998	(0.849)	1979871	120.000	123.9
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	1241986	120.000	123.2
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	1073884	120.000	129.8
138 Benzo(a)Anthracene	228	14.101	14.101	(0.998)	1701674	120.000	125.0
139 Chrysene	228	14.184	14.184	(1.004)	1701698	120.000	120.8
140 3,3'-Dichlorobenzidine	252	14.143	14.143	(1.001)	640756	120.000	129.5
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.021)	1494173	120.000	130.7
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	2478465	120.000	122.2
144 Benzo(b)fluoranthene	252	15.946	15.946	(0.965)	1659701	120.000	135.2
145 Benzo(k)fluoranthene	252	15.987	15.987	(0.967)	1677335	120.000	116.5
147 Benzo(e)pyrene	252	16.371	16.371	(0.991)	1515891	120.000	124.6
148 Benzo(a)pyrene	252	16.443	16.443	(0.995)	1659729	120.000	123.6
151 Indeno(1,2,3-cd)pyrene	276	18.288	18.288	(1.107)	1803961	120.000	135.6
152 Dibenzo(a,h)anthracene	278	18.340	18.340	(1.110)	1555660	120.000	127.6
153 Benzo(g,h,i)perylene	276	18.765	18.765	(1.135)	1624809	120.000	124.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				3337036	120.000	125.1 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823F.D  
 Lab Smp Id: HSL 120 ug/ml CS-6  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0312;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 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	112399	56200	224798	139998	24.55
2 Naphthalene-d8	494728	247364	989456	623524	26.03
3 Acenaphthene-d10	264752	132376	529504	330719	24.92
4 Phenanthrene-d10	415811	207906	831622	502993	20.97
5 Chrysene-d12	431516	215758	863032	514783	19.30
6 Perylene-d12	416460	208230	832920	517085	24.16

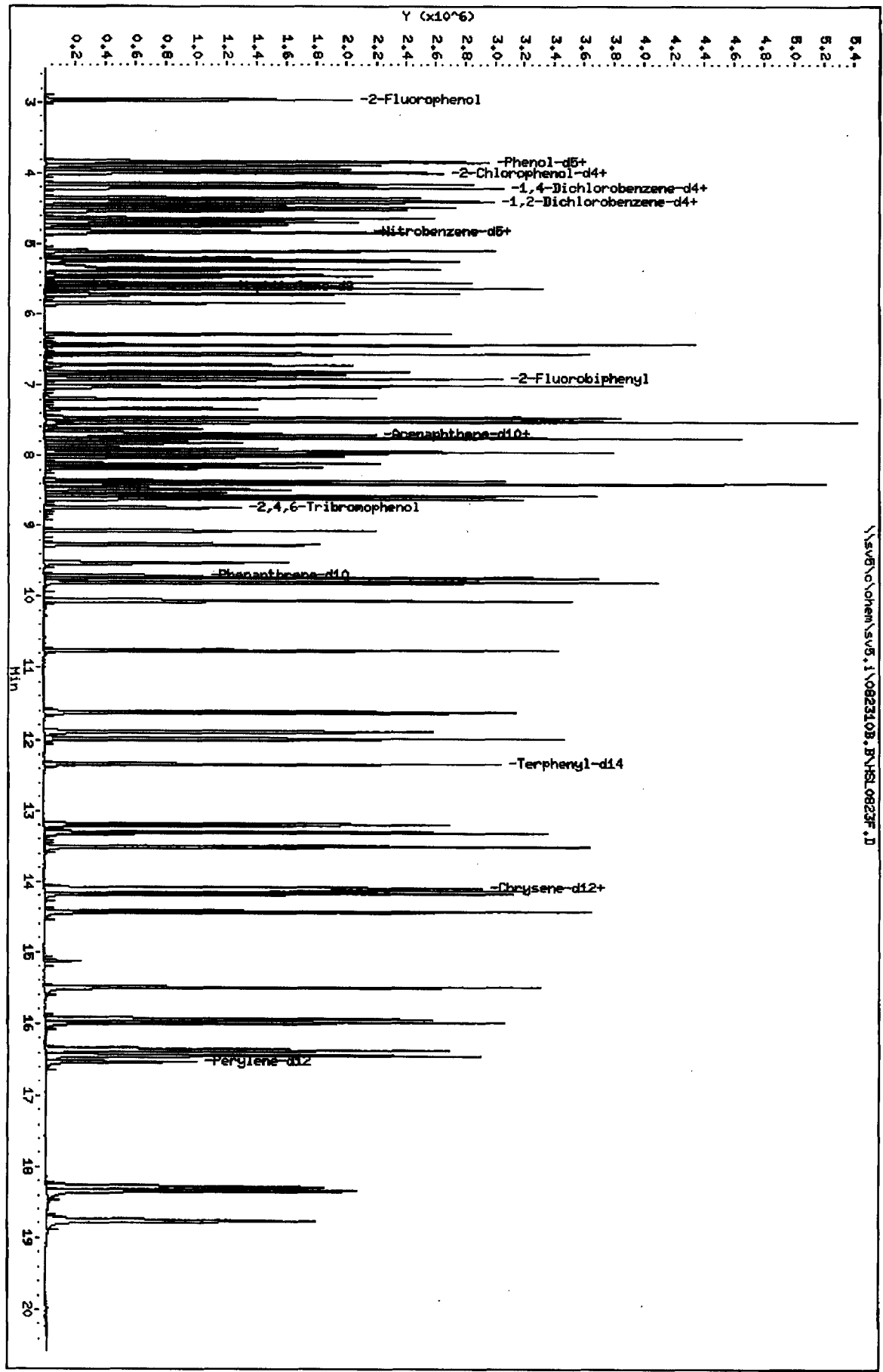
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.13	0.00
6 Perylene-d12	16.53	16.03	17.03	16.53	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\sv5.1\0823108.B\HSL0823F.D  
 Date: 23-AUG-2010 18:24  
 Client ID: 8270F.M  
 Sample Info: HSL\_120 ug/ml CB-611111114

Instrument: sv5.i  
 Operator: KT  
 Column diameter: 2.00

Page 5



TestAmerica WestSacramento

Method 8270C  
 Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823G.D  
 Lab Smp Id: HSL 160 ug/ml CS-7 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 18:50  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 16:08 sv5.i Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 98 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14

Compounds	QUANT SIG	AMOUNTS				CAL-AMT ( NG)	ON-COL ( NG)
		MASS	RT	EXP RT	REL RT		
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	122519	40.0000	
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	543074	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	280308	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	438581	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	456651	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	471962	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	749462	160.000	165.4 (A)
\$ 8 Phenol-d5	99	3.831	3.831	(0.916)	945103	160.000	162.8 (A)
\$ 9 2-Chlorophenol-d4	132	3.987	3.987	(0.953)	797920	160.000	163.0 (A)
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	481556	160.000	158.1
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	792777	160.000	163.6 (A)
\$ 12 2-Fluorobiphenyl	172	6.920	6.920	(0.897)	1444584	160.000	162.8 (A)
\$ 13 2,4,6-Tribromophenol	330	8.754	8.754	(1.134)	187310	160.000	170.8 (A)
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.873)	1405698	160.000	159.1
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	525512	160.000	165.3 (A)
16 Pyridine	79	1.956	1.956	(0.468)	845217	160.000	163.6 (A)
23 Aniline	93	3.883	3.883	(0.928)	1204059	160.000	165.7 (A)
24 Phenol	94	3.842	3.842	(0.918)	1006145	160.000	164.7 (AM)
26 Bis(2-chloroethyl)ether	93	3.945	3.945	(0.943)	750778	160.000	160.7 (A)
27 2-Chlorophenol	128	3.997	3.997	(0.955)	781672	160.000	161.5 (A)
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	851241	160.000	159.4
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	872509	160.000	161.3 (A)
30 Benzyl Alcohol	108	4.350	4.350	(1.040)	561512	160.000	169.1 (A)
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	808819	160.000	158.3
32 2-Methylphenol	108	4.474	4.474	(1.069)	762010	160.000	167.1 (A)
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	1424716	160.000	160.1 (A)
34 4-Methylphenol	108	4.640	4.640	(1.109)	800301	160.000	164.8 (A)
36 Hexachloroethane	117	4.733	4.733	(1.131)	307899	160.000	161.6 (A)
37 N-Nitrosodipropylamine	70	4.681	4.681	(1.119)	555484	160.000	162.6 (A)
42 Nitrobenzene	77	4.837	4.837	(0.863)	783638	160.000	162.2 (A)
44 Isophorone	82	5.096	5.096	(0.909)	1508862	160.000	164.6 (A)
45 2-Nitrophenol	139	5.199	5.199	(0.928)	444303	160.000	171.0 (A)
46 2,4-Dimethylphenol	107	5.241	5.241	(0.935)	801781	160.000	164.6 (A)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	870078	160.000	159.7

*9/14/2010*

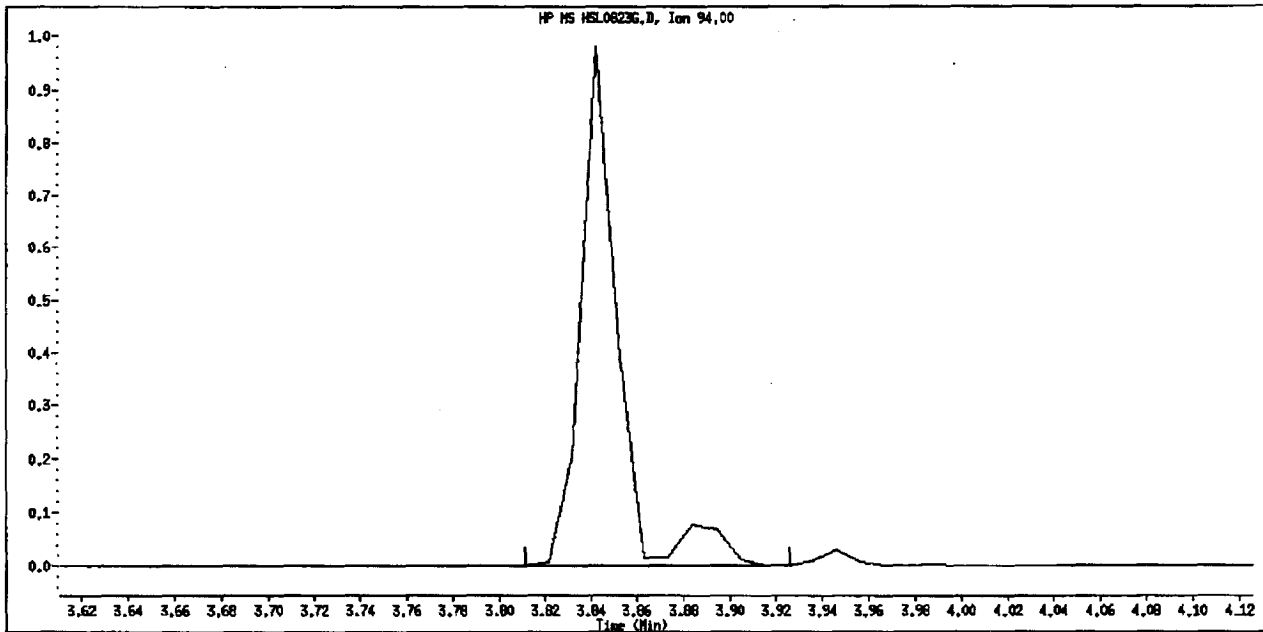
Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	577580	160.000	162.7 (A)
50 Benzoic Acid	122	5.376	5.376	(0.959)	499323	160.000	157.7
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	615729	160.000	160.2 (A)
52 Naphthalene	128	5.635	5.635	(1.006)	2419358	160.000	160.1 (A)
54 4-Chloroaniline	127	5.718	5.718	(1.020)	963709	160.000	161.6 (AH)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	289552	160.000	159.0
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	685134	160.000	166.1 (A)
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	1470925	160.000	159.4
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	359521	160.000	167.4 (A)
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	359345	160.000	170.0 (A)
70 2,4,5-Trichlorophenol	196	6.857	6.857	(0.889)	399633	160.000	173.6 (AH)
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	1261210	160.000	161.3 (A)
73 2-Nitroaniline	65	7.189	7.189	(0.932)	448321	160.000	167.8 (A)
76 Dimethylphthalate	163	7.469	7.469	(0.968)	1472266	160.000	162.7 (A)
77 Acenaphthylene	152	7.531	7.531	(0.976)	2276578	160.000	165.9 (A)
79 2,6-Dinitrotoluene	165	7.541	7.541	(0.977)	347638	160.000	171.7 (AH)
80 3-Nitroaniline	138	7.697	7.697	(0.997)	447165	160.000	166.6 (A)
81 Acenaphthene	153	7.759	7.759	(1.005)	1416489	160.000	162.1 (A)
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	226471	160.000	159.0
83 Dibenzofuran	168	7.956	7.956	(1.031)	1851275	160.000	160.6 (A)
84 4-Nitrophenol	109	7.904	7.904	(1.024)	202262	160.000	168.9 (A)
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	473861	160.000	161.4 (A)
91 Fluorene	166	8.402	8.402	(1.089)	1512959	160.000	160.0 (A)
92 Diethylphthalate	149	8.360	8.360	(1.083)	1515994	160.000	159.8
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	605637	160.000	156.0
94 4-Nitroaniline	138	8.484	8.484	(1.099)	452535	160.000	170.7 (A)
97 4,6-Dinitro-2-methylphenol	198	8.547	8.547	(0.881)	272263	160.000	158.3
98 N-Nitrosodiphenylamine	169	8.588	8.588	(0.886)	1275595	187.000	185.8 (A)
100 Azobenzene	77	8.619	8.619	(0.889)	1555168	160.000	160.5 (A)
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	341660	160.000	162.4 (A)
108 Hexachlorobenzene	284	9.272	9.272	(0.956)	357122	160.000	157.0
110 Pentachlorophenol	266	9.531	9.531	(0.983)	252287	160.000	179.1 (A)
114 Phenanthrene	178	9.738	9.738	(1.004)	2195697	160.000	159.9
115 Anthracene	178	9.801	9.801	(1.011)	2236741	160.000	161.9 (A)
118 Carbazole	167	10.060	10.060	(1.037)	2096476	160.000	162.4 (A)
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	2711327	160.000	173.4 (A)
126 Fluoranthene	202	11.624	11.624	(1.199)	2107239	160.000	169.8 (A)
127 Benzidine	184	11.894	11.894	(0.842)	1635330	160.000	159.7
128 Pyrene	202	11.998	11.998	(0.849)	2241877	160.000	158.1
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	1427358	160.000	158.5
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	1229163	160.000	167.5 (A)
138 Benzo (a) Anthracene	228	14.112	14.112	(0.999)	1993586	160.000	165.1 (A)
139 Chrysene	228	14.184	14.184	(1.004)	1984227	160.000	158.9
140 3,3'-Dichlorobenzidine	252	14.143	14.143	(1.001)	746709	160.000	170.2 (A)
141 bis (2-ethylhexyl) Phthalate	149	14.433	14.433	(1.021)	1705185	160.000	168.1 (A)
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	2907367	160.000	159.0
144 Benzo (b) fluoranthene	252	15.946	15.946	(0.965)	1951173	160.000	174.1 (A)
145 Benzo (k) fluoranthene	252	15.987	15.987	(0.967)	2022702	160.000	154.0
147 Benzo (e) pyrene	252	16.371	16.371	(0.991)	1827263	160.000	164.5 (A)
148 Benzo (a) pyrene	252	16.443	16.443	(0.995)	2012433	160.000	164.1 (A)
151 Indeno (1,2,3-cd) pyrene	276	18.288	18.288	(1.107)	1771827	160.000	170.0 (A)
152 Dibenzo (a,h) anthracene	278	18.340	18.340	(1.110)	1913427	160.000	172.0 (A)
153 Benzo (g,h,i) perylene	276	18.775	18.775	(1.136)	1962431	160.000	165.2 (A)
M 162 benzo b,k Fluoranthene Totals	252				3973875	160.000	163.2 (A)

QC Flag Legend

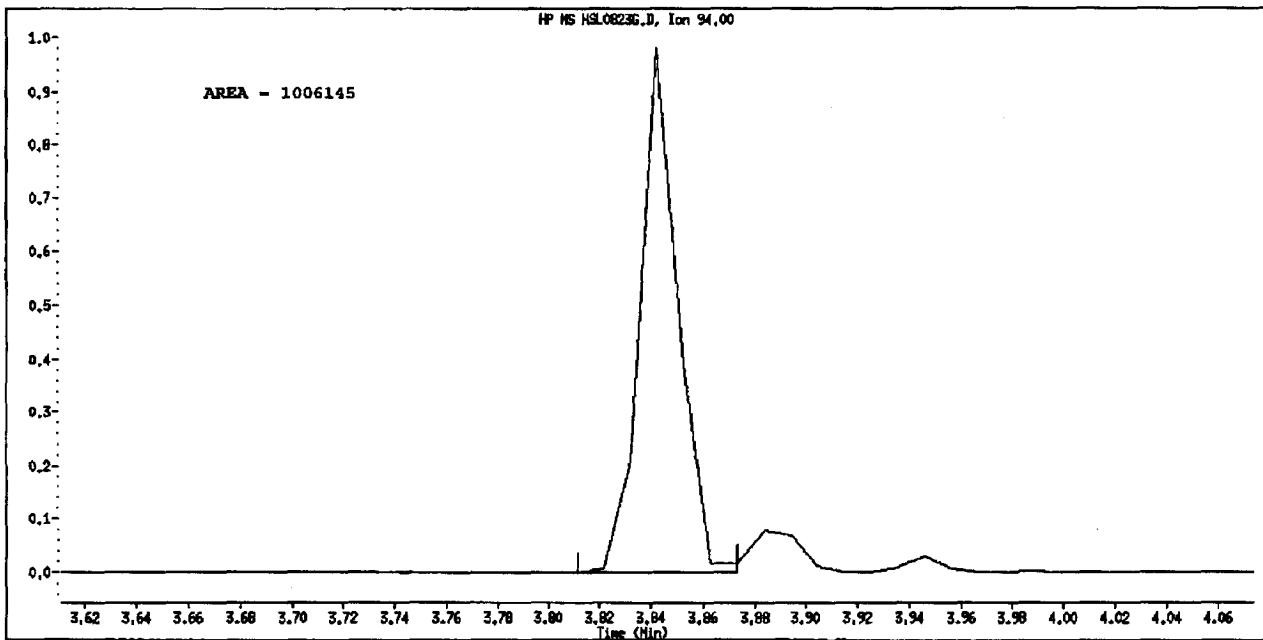
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.



Data File Name: HSL0823G.D  
Inj. Date and Time: 23-AUG-2010 18:50  
Instrument ID: sv5.i  
Client ID: 8270F.M  
Compound Name: Phenol  
CAS #: 108-95-2  
Report Date: 08/24/2010



Original Integration



Manual Integration

Manually Integrated By: scottsx

Manual Integration Reason: ~~Unknown~~ *Peak chromatography by spike*

TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823G.D  
 Lab Smp Id: HSL 160 ug/ml CS-7 Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 18:50  
 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\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 12:12 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 98 Calibration Sample, Level: 7  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RRSPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	122519	40.0000	
* 2 Naphthalene-d8	136	5.604	5.604	(1.000)	543074	40.0000	
* 3 Acenaphthene-d10	164	7.718	7.718	(1.000)	280308	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	438581	40.0000	
* 5 Chrysene-d12	240	14.132	14.132	(1.000)	456651	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	471962	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	749462	160.000	165.4 (A)
\$ 8 Phenol-d5	99	3.831	3.831	(0.916)	945103	160.000	162.8 (A)
\$ 9 2-Chlorophenol-d4	132	3.987	3.987	(0.953)	797920	160.000	163.0 (A)
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	481556	160.000	158.1
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	792777	160.000	162.5 (A)
\$ 12 2-Fluorobiphenyl	172	6.920	6.920	(0.897)	1444584	160.000	162.8 (A)
\$ 13 2,4,6-Tribromophenol	330	8.754	8.754	(1.134)	187310	160.000	170.8 (A)
\$ 14 Terphenyl-d14	244	12.340	12.340	(0.873)	1405698	160.000	159.1
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	515512	160.000	165.3 (A)
16 Pyridine	79	1.956	1.956	(0.468)	845217	160.000	163.6 (A)
23 Aniline	93	3.883	3.883	(0.928)	1204059	160.000	165.7 (A)
24 Phenol	94	3.842	3.842	(0.918)	1103854	160.000	178.2 (A)
26 Bis(2-chloroethyl) ether	93	3.945	3.945	(0.943)	750778	160.000	160.7 (A)
27 2-Chlorophenol	128	3.997	3.997	(0.955)	781672	160.000	161.5 (A)
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	851241	160.000	159.4
29 1,4-Dichlorobenzene	146	4.205	4.205	(1.005)	872509	160.000	161.3 (A)
30 Benzyl Alcohol	108	4.350	4.350	(1.040)	561512	160.000	169.1 (A)
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	808819	160.000	158.3
32 2-Methylphenol	108	4.474	4.474	(1.069)	762010	160.000	167.1 (A)
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	1424716	160.000	160.1 (A)
34 4-Methylphenol	108	4.640	4.640	(1.109)	800301	160.000	164.8 (A)
36 Hexachloroethane	117	4.733	4.733	(1.131)	307899	160.000	161.6 (A)
37 N-Nitrosodipropylamine	70	4.681	4.681	(1.119)	555484	160.000	162.2 (A)
42 Nitrobenzene	77	4.837	4.837	(0.863)	783638	160.000	162.2 (A)
44 Isophorone	82	5.096	5.096	(0.909)	1508862	160.000	164.6 (A)
45 2-Nitrophenol	139	5.199	5.199	(0.928)	444303	160.000	171.0 (A)
46 2,4-Dimethylphenol	107	5.241	5.241	(0.935)	801781	160.000	164.6 (A)

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	870078	160.000	159.7
49 2,4-Dichlorophenol	162	5.458	5.458	(0.974)	577580	160.000	162.7 (A)
50 Benzoic Acid	122	5.376	5.376	(0.959)	499323	160.000	157.7
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	615729	160.000	160.2 (A)
52 Naphthalene	128	5.635	5.635	(1.006)	2419358	160.000	158.5
54 4-Chloroaniline	127	5.635	5.635	(1.006)	303659	160.000	163.7 (A)
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	289552	160.000	159.0
60 4-Chloro-3-Methylphenol	107	6.288	6.288	(1.122)	685134	160.000	166.1 (A)
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	1470925	160.000	159.4
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	359521	160.000	167.4 (A)
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	359345	160.000	119.3
70 2,4,5-Trichlorophenol	196	6.816	6.816	(0.883)	359345	160.000	118.4
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	1261210	160.000	161.3 (A)
73 2-Nitroaniline	65	7.189	7.189	(0.932)	448321	160.000	167.8 (A)
76 Dimethylphthalate	163	7.469	7.469	(0.968)	1472266	160.000	162.7 (A)
77 Acenaphthylene	152	7.531	7.531	(0.976)	2276578	160.000	165.9 (A)
79 2,6-Dinitrotoluene	165	7.718	7.718	(1.000)	36736	160.000	16.36
80 3-Nitroaniline	138	7.697	7.697	(0.997)	447165	160.000	166.6 (A)
81 Acenaphthene	153	7.759	7.759	(1.005)	1416489	160.000	162.1 (A)
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	226471	160.000	159.1
83 Dibenzofuran	168	7.956	7.956	(1.031)	1851275	160.000	160.6 (A)
84 4-Nitrophenol	109	7.904	7.904	(1.024)	202262	160.000	168.9 (A)
86 2,4-Dinitrotoluene	165	8.018	8.018	(1.039)	473861	160.000	161.4 (A)
91 Fluorene	166	8.402	8.402	(1.089)	1512959	160.000	160.0 (A)
92 Diethylphthalate	149	8.360	8.360	(1.083)	1515994	160.000	159.8
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	605637	160.000	156.0
94 4-Nitroaniline	138	8.484	8.484	(1.099)	452535	160.000	170.7 (A)
97 4,6-Dinitro-2-methylphenol	198	8.547	8.547	(0.881)	272263	160.000	158.3
98 N-Nitrosodiphenylamine	169	8.588	8.588	(0.886)	1275595	187.000	185.8 (A)
100 Azobenzene	77	8.619	8.619	(0.889)	1555168	160.000	160.5 (A)
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	341660	160.000	162.4 (A)
108 Hexachlorobenzene	284	9.272	9.272	(0.956)	357122	160.000	157.0
110 Pentachlorophenol	266	9.531	9.531	(0.983)	252287	160.000	179.1 (A)
114 Phenanthrene	178	9.738	9.738	(1.004)	2195697	160.000	159.9
115 Anthracene	178	9.801	9.801	(1.011)	2236741	160.000	161.9 (A)
118 Carbazole	167	10.060	10.060	(1.037)	2096476	160.000	162.4 (A)
120 Di-n-Butylphthalate	149	10.764	10.764	(1.110)	2711327	160.000	173.4 (A)
126 Fluoranthene	202	11.624	11.624	(1.199)	2107239	160.000	169.8 (A)
127 Benzidine	184	11.894	11.894	(0.842)	1635330	160.000	159.7
128 Pyrene	202	11.998	11.998	(0.849)	2241877	160.000	158.1
134 3,3'-dimethylbenzidine	212	13.200	13.200	(0.934)	1427358	160.000	158.5
136 Butylbenzylphthalate	149	13.314	13.314	(0.942)	1229163	160.000	167.5 (A)
138 Benzo(a)Anthracene	228	14.112	14.112	(0.999)	1993586	160.000	165.1 (A)
139 Chrysene	228	14.184	14.184	(1.004)	1984227	160.000	158.9
140 3,3'-Dichlorobenzidine	252	14.143	14.143	(1.001)	746709	160.000	170.2 (A)
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.021)	1705185	160.000	168.1 (A)
142 Di-n-octylphthalate	149	15.490	15.490	(1.096)	2907367	160.000	159.0
144 Benzo(b)fluoranthene	252	15.946	15.946	(0.965)	1951173	160.000	174.1 (A)
145 Benzo(k)fluoranthene	252	15.987	15.987	(0.967)	2022702	160.000	154.0
147 Benzo(e)pyrene	252	16.371	16.371	(0.991)	1827263	160.000	164.5 (A)
148 Benzo(a)pyrene	252	16.443	16.443	(0.995)	2012433	160.000	164.1 (A)
151 Indeno(1,2,3-cd)pyrene	276	18.288	18.288	(1.107)	1771827	160.000	145.9
152 Dibenzo(a,h)anthracene	278	18.340	18.340	(1.110)	1913427	160.000	172.0 (A)
153 Benzo(g,h,i)perylene	276	18.775	18.775	(1.136)	1962431	160.000	165.2 (A)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				3973875	160.000	163.2 (A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

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INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823G.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\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0313;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

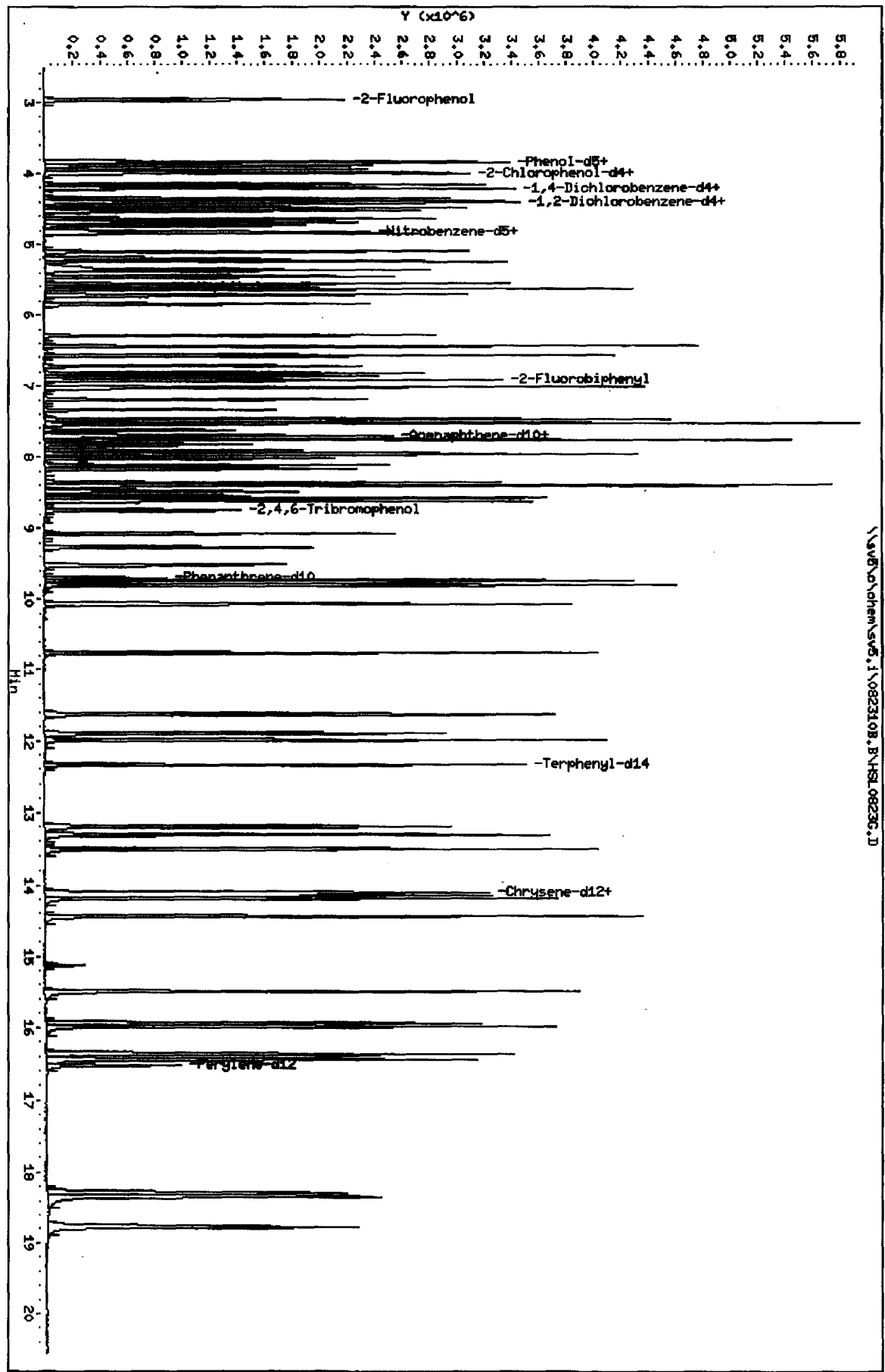
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	122519	9.00
2 Naphthalene-d8	494728	247364	989456	543074	9.77
3 Acenaphthene-d10	264752	132376	529504	280308	5.88
4 Phenanthrene-d10	415811	207906	831622	438581	5.48
5 Chrysene-d12	431516	215758	863032	456651	5.82
6 Perylene-d12	416460	208230	832920	471962	13.33

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.13	13.63	14.63	14.13	0.00
6 Perylene-d12	16.53	16.03	17.03	16.53	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\sv5.1\0823108.B\HSL0823C.D  
 Date: 23-AUG-2010 18:50  
 Client ID: 8270F.M  
 Sample Info: HSL\_160 ug/ml CS-71377334  
 Column phase:

Instrument: sv5.1  
 Operator: KT  
 Column diameter: 2.00



\\svb\chem\sv5.1\0823108.B\HSL0823C.D

TestAmerica WestSacramento

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 23-AUG-2010 19:17  
 Lab File ID: HSL0823H.D Init. Cal. Date(s): 17-AUG-2010 23-AUG-2010  
 Analysis Type: Init. Cal. Times: 17:32 18:50  
 Lab Sample ID: HSL\_050 ug/ml ICV Quant Type: ISTD  
 Method: \\sv5\c\chem\sv5.i\082310B.B\8270f.m

COMPOUND	RRP / AMOUNT		RF50	CCAL	MIN	MAX		CURVE TYPE
	RRP	AMOUNT	RF50	RRF50	RRF	%D / %DRIFT	%D / %DRIFT	
7 2-Fluorophenol	1.47923		1.44793	1.44793	0.010	-2.11626	50.00000	Averaged
8 Phenol-d5	1.89473		1.87734	1.87734	0.010	-0.91787	50.00000	Averaged
9 2-Chlorophenol-d4	1.59813		1.55468	1.55468	0.010	-2.71911	50.00000	Averaged
10 1,2-Dichlorobenzene-d4	0.99431		0.97842	0.97842	0.010	-1.59809	50.00000	Averaged
11 Nitrobenzene-d5	0.35699		0.35810	0.35810	0.010	0.31113	50.00000	Averaged
12 2-Fluorobiphenyl	1.26594		1.26057	1.26057	0.010	-0.42475	50.00000	Averaged
13 2,4,6-Tribromophenol	0.15648		0.16061	0.16061	0.010	2.63636	50.00000	Averaged
14 Terphenyl-d14	0.77396		0.77063	0.77063	0.010	-0.42991	50.00000	Averaged
15 N-Nitrosodimethylamine	1.01809		0.98482	0.98482	0.010	-3.26758	50.00000	Averaged
16 Pyridine	1.68687		1.67234	1.67234	0.010	-0.86117	50.00000	Averaged
23 Aniline	2.37259		2.29477	2.29477	0.010	-3.27996	50.00000	Averaged
24 Phenol	1.99436		1.99419	1.99419	0.010	-0.00866	20.00000	Averaged
26 Bis(2-chloroethyl) ether	1.52541		1.54638	1.54638	0.010	1.37523	50.00000	Averaged
27 2-Chlorophenol	1.58023		1.56877	1.56877	0.010	-0.72537	50.00000	Averaged
28 1,3-Dichlorobenzene	1.74334		1.70084	1.70084	0.010	-2.43797	50.00000	Averaged
29 1,4-Dichlorobenzene	1.76599		1.72378	1.72378	0.010	-2.38987	20.00000	Averaged
30 Benzyl Alcohol	1.08397		1.07981	1.07981	0.010	-0.38358	50.00000	Averaged
31 1,2-Dichlorobenzene	1.66769		1.66345	1.66345	0.010	-0.25416	50.00000	Averaged
32 2-Methylphenol	1.48902		1.52614	1.52614	0.010	2.49299	50.00000	Averaged
33 2,2'-oxybis(1-Chloropropane	2.90571		2.81705	2.81705	0.010	-3.05138	50.00000	Averaged
34 4-Methylphenol	1.58517		1.50418	1.50418	0.010	-5.10913	50.00000	Averaged
36 Hexachloroethane	0.62210		0.61654	0.61654	0.010	-0.89405	50.00000	Averaged
37 N-Nitrosodipropylamine	1.11560		1.12112	1.12112	0.050	0.49501	50.00000	Averaged
42 Nitrobenzene	0.35575		0.36090	0.36090	0.010	1.44779	50.00000	Averaged
44 Isophorone	0.67537		0.69422	0.69422	0.010	2.79176	50.00000	Averaged
45 2-Nitrophenol	0.19133		0.20049	0.20049	0.010	4.78727	20.00000	Averaged
46 2,4-Dimethylphenol	0.35866		0.36130	0.36130	0.010	0.73548	50.00000	Averaged
47 Bis(2-chloroethoxy)methane	0.40130		0.40342	0.40342	0.010	0.52823	50.00000	Averaged
49 2,4-Dichlorophenol	0.26143		0.26665	0.26665	0.010	1.99825	20.00000	Averaged
50 Benzoic Acid	0.20092		0.22389	0.22389	0.010	11.43093	50.00000	Averaged
51 1,2,4-Trichlorobenzene	0.28301		0.27951	0.27951	0.010	-1.23611	50.00000	Averaged
52 Naphthalene	1.11324		1.11302	1.11302	0.010	-0.01916	50.00000	Averaged
54 4-Chloroaniline	0.43919		0.43595	0.43595	0.010	-0.73682	50.00000	Averaged
57 Hexachlorobutadiene	0.13411		0.13799	0.13799	0.010	2.89143	20.00000	Averaged
60 4-Chloro-3-Methylphenol	0.30380		0.31286	0.31286	0.010	2.98070	20.00000	Averaged
63 2-Methylnaphthalene	0.67962		0.71794	0.71794	0.010	5.63754	50.00000	Averaged
66 Hexachlorocyclopentadiene	0.30646		0.32800	0.32800	0.050	7.02794	50.00000	Averaged
69 2,4,6-Trichlorophenol	0.30154		0.32767	0.32767	0.010	8.66635	20.00000	Averaged
70 2,4,5-Trichlorophenol	0.32858		0.34738	0.34738	0.010	5.72208	50.00000	Averaged
71 2-Chloronaphthalene	1.11567		1.13446	1.13446	0.010	1.68392	50.00000	Averaged
73 2-Nitroaniline	0.38116		0.40368	0.40368	0.010	5.90929	50.00000	Averaged
76 Dimethylphthalate	1.29156		1.32758	1.32758	0.010	2.78924	50.00000	Averaged

*Handwritten signature/initials*

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: sv5.i Injection Date: 23-AUG-2010 19:17  
 Lab File ID: HSL0823H.D Init. Cal. Date(s): 17-AUG-2010 23-AUG-2010  
 Analysis Type: Init. Cal. Times: 17:32 18:50  
 Lab Sample ID: HSL\_050 ug/ml ICV Quant Type: ISTD  
 Method: \\sv5\c\chem\sv5.i\082310B.B\8270f.m

COMPOUND	RRP / AMOUNT		RF50	CCAL	MIN	MAX		CURVE TYPE
	RRP	AMOUNT	RF50	RRF50	RRF	%D	%DRIFT	
77 Acenaphthylene	1.95828		1.97045	1.97045	0.010	0.62148	50.00000	Averaged
79 2,6-Dinitrotoluene	0.28888		0.31010	0.31010	0.010	7.34475	50.00000	Averaged
80 3-Nitroaniline	0.38296		0.39034	0.39034	0.010	1.92603	50.00000	Averaged
81 Acenaphthene	1.24672		1.21988	1.21988	0.010	-2.15246	20.00000	Averaged
82 2,4-Dinitrophenol	50.00000		49.25687	0.17149	0.050	-1.48627	0.000e+000	Quadratic
83 Dibenzofuran	1.64538		1.66330	1.66330	0.010	1.08922	50.00000	Averaged
84 4-Nitrophenol	0.17088		0.18072	0.18072	0.050	5.75759	50.00000	Averaged
86 2,4-Dinitrotoluene	0.38742		0.41131	0.41131	0.010	6.16641	50.00000	Averaged
91 Fluorene	1.34904		1.33569	1.33569	0.010	-0.98945	50.00000	Averaged
92 Diethylphthalate	1.35372		1.38212	1.38212	0.010	2.09758	50.00000	Averaged
93 4-Chlorophenyl-phenylether	0.55385		0.56769	0.56769	0.010	2.50035	50.00000	Averaged
94 4-Nitroaniline	0.37837		0.40983	0.40983	0.010	8.31355	50.00000	Averaged
97 4,6-Dinitro-2-methylphenol	50.00000		46.90577	0.13441	0.010	-6.18846	0.000e+000	Linear
98 N-Nitrosodiphenylamine	0.62622		0.50184	0.50184	0.010	<del>10.00000</del> <sup>4.8</sup> 20.00000	50.00000	Averaged
100 Azobenzene	0.88363		0.90477	0.90477	0.010	2.39251	50.00000	Averaged
101 4-Bromophenyl-phenylether	0.19190		0.19611	0.19611	0.010	2.19599	50.00000	Averaged
108 Hexachlorobenzene	0.20744		0.21491	0.21491	0.010	3.59785	50.00000	Averaged
110 Pentachlorophenol	0.12850		0.13271	0.13271	0.010	3.28089	20.00000	Averaged
114 Phenanthrene	1.25231		1.23728	1.23728	0.010	-1.19966	50.00000	Averaged
115 Anthracene	1.26014		1.25625	1.25625	0.010	-0.30883	50.00000	Averaged
118 Carbazole	1.17754		1.16034	1.16034	0.010	-1.46007	50.00000	Averaged
120 Di-n-Butylphthalate	1.42590		1.47145	1.47145	0.010	3.19442	50.00000	Averaged
126 Fluoranthene	1.13179		1.16543	1.16543	0.010	2.97218	20.00000	Averaged
127 Benzidine	0.82752		0.53072	0.53072	0.010	-35.86658	50.00000	Averaged
128 Pyrene	1.24186		1.22061	1.22061	0.010	-1.71100	50.00000	Averaged
134 3,3'-dimethylbenzidine	0.70995		0.40018	0.40018	0.010	-43.63286	50.00000	Averaged
136 Butylbenzylphthalate	0.64263		0.66163	0.66163	0.010	2.95585	50.00000	Averaged
138 Benzo (a)Anthracene	1.05752		1.01024	1.01024	0.010	-4.47082	50.00000	Averaged
139 Chrysene	1.09407		1.04861	1.04861	0.010	-4.15512	50.00000	Averaged
140 3,3'-Dichlorobenzidine	0.38440		0.38611	0.38611	0.010	0.44571	50.00000	Averaged
141 bis(2-ethylhexyl) Phthalate	0.88842		0.90586	0.90586	0.010	1.96302	50.00000	Averaged
142 Di-n-octylphthalate	1.42876		1.42908	1.42908	0.010	0.02218	20.00000	Averaged
144 Benzo (b) fluoranthene	0.94959		1.01354	1.01354	0.010	6.73435	50.00000	Averaged
145 Benzo (k) fluoranthene	1.11337		1.09725	1.09725	0.010	-1.44783	50.00000	Averaged
147 Benzo (e) pyrene	0.94145		0.97639	0.97639	0.010	3.71137	50.00000	Averaged
148 Benzo (a) pyrene	1.03915		0.92795	0.92795	0.010	-10.70017	20.00000	Averaged
151 Indeno (1,2,3-cd) pyrene	0.88334		0.84989	0.84989	0.010	-3.78699	50.00000	Averaged
152 Dibenzo (a,h) anthracene	0.94269		0.97754	0.97754	0.010	3.69669	50.00000	Averaged
153 Benzo (g,h,i) perylene	1.00655		1.02117	1.02117	0.010	1.45263	50.00000	Averaged
M 162 benzo b,k Fluoranthene Tota	2.06296		2.11079	2.11079	0.010	2.31860	50.00000	Averaged



TestAmerica WestSacramento

Method 8270C

Data file : \\sv5\c\chem\sv5.i\082310B.B\HSL0823H.D  
 Lab Smp Id: HSL 050 ug/ml ICV Client Smp ID: 8270F.M  
 Inj Date : 23-AUG-2010 19:17  
 Operator : KT Inst ID: sv5.i  
 Smp Info : HSL 050 ug/ml ICV;2;;4;;;4  
 Misc Info : 3;;0;1 8270STD.SUB;10MSSV0214;0;8270F.M  
 Comment : SOP SAC-MS-0005  
 Method : \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Meth Date : 24-Aug-2010 16:25 scotts Quant Type: ISTD  
 Cal Date : 17-AUG-2010 23:55 Cal File: AP90817G.D  
 Als bottle: 99 Continuing Calibration Sample  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 1\_8270STD.SUB  
 Target Version: 4.14  
 Processing Host: SACP333

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
* 1 1,4-Dichlorobenzene-d4	152	4.184	4.184	(1.000)	120025	40.0000	
* 2 Naphthalene-d8	136	5.603	5.603	(1.000)	518107	40.0000	
* 3 Acenaphthene-d10	164	7.717	7.717	(1.000)	274779	40.0000	
* 4 Phenanthrene-d10	188	9.697	9.697	(1.000)	428920	40.0000	
* 5 Chrysene-d12	240	14.122	14.122	(1.000)	430759	40.0000	
* 6 Perylene-d12	264	16.526	16.526	(1.000)	420242	40.0000	
\$ 7 2-Fluorophenol	112	2.961	2.961	(0.708)	217234	50.0000	48.94
\$ 8 Phenol-d5	99	3.821	3.821	(0.913)	281660	50.0000	49.54
\$ 9 2-Chlorophenol-d4	132	3.976	3.976	(0.950)	233250	50.0000	48.64
\$ 10 1,2-Dichlorobenzene-d4	152	4.391	4.391	(1.050)	146794	50.0000	49.20
\$ 11 Nitrobenzene-d5	82	4.816	4.816	(0.859)	231916	50.0000	50.16
\$ 12 2-Fluorobiphenyl	172	6.909	6.909	(0.895)	432971	50.0000	49.79
\$ 13 2,4,6-Tribromophenol	330	8.743	8.743	(1.133)	55164	50.0000	51.32
\$ 14 Terphenyl-d14	244	12.339	12.339	(0.874)	414946	50.0000	49.78
15 N-Nitrosodimethylamine	74	1.935	1.935	(0.463)	147754	50.0000	48.37
16 Pyridine	79	1.956	1.956	(0.468)	250904	50.0000	49.57
23 Aniline	93	3.883	3.883	(0.928)	344287	50.0000	48.36
24 Phenol	94	3.842	3.842	(0.918)	299191	50.0000	50.00
26 Bis(2-chloroethyl)ether	93	3.945	3.945	(0.943)	232006	50.0000	50.69
27 2-Chlorophenol	128	3.997	3.997	(0.955)	235364	50.0000	49.64
28 1,3-Dichlorobenzene	146	4.153	4.153	(0.993)	255179	50.0000	48.78
29 1,4-Dichlorobenzene	146	4.204	4.204	(1.005)	258621	50.0000	48.80
30 Benzyl Alcohol	108	4.339	4.339	(1.037)	162005	50.0000	49.81
31 1,2-Dichlorobenzene	146	4.401	4.401	(1.052)	249569	50.0000	49.87
32 2-Methylphenol	108	4.474	4.474	(1.069)	228969	50.0000	51.25
33 2,2'-oxybis(1-Chloropropane)	45	4.526	4.526	(1.082)	422645	50.0000	48.47
34 4-Methylphenol	108	4.629	4.629	(1.106)	225674	50.0000	47.44
36 Hexachloroethane	117	4.733	4.733	(1.131)	92500	50.0000	49.55
37 N-Nitrosodipropylamine	70	4.671	4.671	(1.116)	168203	50.0000	50.25
42 Nitrobenzene	77	4.837	4.837	(0.863)	233732	50.0000	50.72
44 Isophorone	82	5.096	5.096	(0.909)	449603	50.0000	51.40
45 2-Nitrophenol	139	5.199	5.199	(0.928)	129843	50.0000	52.39
46 2,4-Dimethylphenol	107	5.230	5.230	(0.933)	233987	50.0000	50.37

*5/24/10*

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( NG)	ON-COL ( NG)
47 Bis(2-chloroethoxy)methane	93	5.355	5.355	(0.956)	261271	50.0000	50.26
49 2,4-Dichlorophenol	162	5.448	5.448	(0.972)	172692	50.0000	51.00
50 Benzoic Acid	122	5.324	5.324	(0.950)	144998	50.0000	55.72
51 1,2,4-Trichlorobenzene	180	5.562	5.562	(0.993)	181022	50.0000	49.38
52 Naphthalene	128	5.624	5.624	(1.004)	720831	50.0000	49.99
54 4-Chloroaniline	127	5.717	5.717	(1.020)	282339	50.0000	49.63
57 Hexachlorobutadiene	225	5.852	5.852	(1.044)	89367	50.0000	51.44
60 4-Chloro-3-Methylphenol	107	6.287	6.287	(1.122)	202618	50.0000	51.49
63 2-Methylnaphthalene	142	6.443	6.443	(1.150)	464959	50.0000	52.82
66 Hexachlorocyclopentadiene	237	6.723	6.723	(0.871)	112660	50.0000	53.51
69 2,4,6-Trichlorophenol	196	6.816	6.816	(0.883)	112547	50.0000	54.33
70 2,4,5-Trichlorophenol	196	6.857	6.857	(0.889)	119315	50.0000	52.86
71 2-Chloronaphthalene	162	7.023	7.023	(0.910)	389656	50.0000	50.84
73 2-Nitroaniline	65	7.189	7.189	(0.932)	138655	50.0000	52.95
76 Dimethylphthalate	163	7.458	7.458	(0.966)	455990	50.0000	51.39
77 Acenaphthylene	152	7.521	7.521	(0.974)	676797	50.0000	50.31
79 2,6-Dinitrotoluene	165	7.531	7.531	(0.976)	106511	50.0000	53.67
80 3-Nitroaniline	138	7.686	7.686	(0.996)	134070	50.0000	50.96
81 Acenaphthene	153	7.749	7.749	(1.004)	418998	50.0000	48.92
82 2,4-Dinitrophenol	184	7.821	7.821	(1.013)	58901	50.0000	49.26
83 Dibenzofuran	168	7.956	7.956	(1.031)	571300	50.0000	50.54
84 4-Nitrophenol	109	7.894	7.894	(1.023)	62071	50.0000	52.88
86 2,4-Dinitrotoluene	165	8.008	8.008	(1.038)	141275	50.0000	53.08
91 Fluorene	166	8.391	8.391	(1.087)	458774	50.0000	49.50
92 Diethylphthalate	149	8.350	8.350	(1.082)	474721	50.0000	51.05
93 4-Chlorophenyl-phenylether	204	8.412	8.412	(1.090)	194988	50.0000	51.25
94 4-Nitroaniline	138	8.474	8.474	(1.098)	140765	50.0000	54.16
97 4,6-Dinitro-2-methylphenol	198	8.536	8.536	(0.880)	72063	50.0000	46.90
98 N-Nitrosodiphenylamine	169	8.578	8.578	(0.885)	315343	<del>50.0000</del> 50	46.96 <i>SPS 8/24/10</i>
100 Azobenzene	77	8.609	8.609	(0.888)	485095	50.0000	51.20
101 4-Bromophenyl-phenylether	248	9.075	9.075	(0.936)	105146	50.0000	51.10
108 Hexachlorobenzene	284	9.262	9.262	(0.955)	115222	50.0000	51.80
110 Pentachlorophenol	266	9.521	9.521	(0.982)	71155	50.0000	51.64
114 Phenanthrene	178	9.728	9.728	(1.003)	663370	50.0000	49.40
115 Anthracene	178	9.800	9.800	(1.011)	673538	50.0000	49.84
118 Carbazole	167	10.060	10.060	(1.037)	622118	50.0000	49.27
120 Di-n-Butylphthalate	149	10.754	10.754	(1.109)	788920	50.0000	51.60
126 Fluoranthene	202	11.624	11.624	(1.199)	624843	50.0000	51.49
127 Benzidine	184	11.894	11.894	(0.842)	285763	50.0000	32.07
128 Pyrene	202	11.987	11.987	(0.849)	657235	50.0000	49.14
134 3,3'-dimethylbenzidine	212	13.189	13.189	(0.934)	215475	50.0000	28.18
136 Butylbenzylphthalate	149	13.303	13.303	(0.942)	356253	50.0000	51.48
138 Benzo(a)Anthracene	228	14.101	14.101	(0.999)	543965	50.0000	47.76
139 Chrysene	228	14.174	14.174	(1.004)	564621	50.0000	47.92
140 3,3'-Dichlorobenzidine	252	14.132	14.132	(1.001)	207903	50.0000	50.22
141 bis(2-ethylhexyl)Phthalate	149	14.433	14.433	(1.022)	487758	50.0000	50.98
142 Di-n-octylphthalate	149	15.490	15.490	(1.097)	769484	50.0000	50.01
144 Benzo(b)fluoranthene	252	15.935	15.935	(0.964)	532415	50.0000	53.37
145 Benzo(k)fluoranthene	252	15.977	15.977	(0.967)	576388	50.0000	49.28
147 Benzo(e)pyrene	252	16.360	16.360	(0.990)	512902	50.0000	51.86
148 Benzo(a)pyrene	252	16.433	16.433	(0.994)	487457	50.0000	44.65
151 Indeno(1,2,3-cd)pyrene	276	18.267	18.267	(1.105)	446447	50.0000	48.11
152 Dibenzo(a,h)anthracene	278	18.319	18.319	(1.108)	513502	50.0000	51.85
153 Benzo(g,h,i)perylene	276	18.744	18.744	(1.134)	536425	50.0000	50.73

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
						CAL-AMT ( NG)	ON-COL ( NG)
M 162 benzo b,k Fluoranthene Totals	252				1108803	50.0000	51.16(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

TestAmerica WestSacramento

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: sv5.i  
 Lab File ID: HSL0823H.D  
 Lab Smp Id: HSL 050 ug/ml ICV  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: KT  
 Method File: \\sv5\c\chem\sv5.i\082310B.B\8270f.m  
 Misc Info: 3;;0;1\_8270STD.SUB;10MSSV0314;0;8270F.M

Calibration Date: 23-AUG-2010  
 Calibration Time: 16:14  
 Client Smp ID: 8270F.M  
 Level:  
 Sample Type:

Test Mode:  
 Use Initial Calibration Level 4.

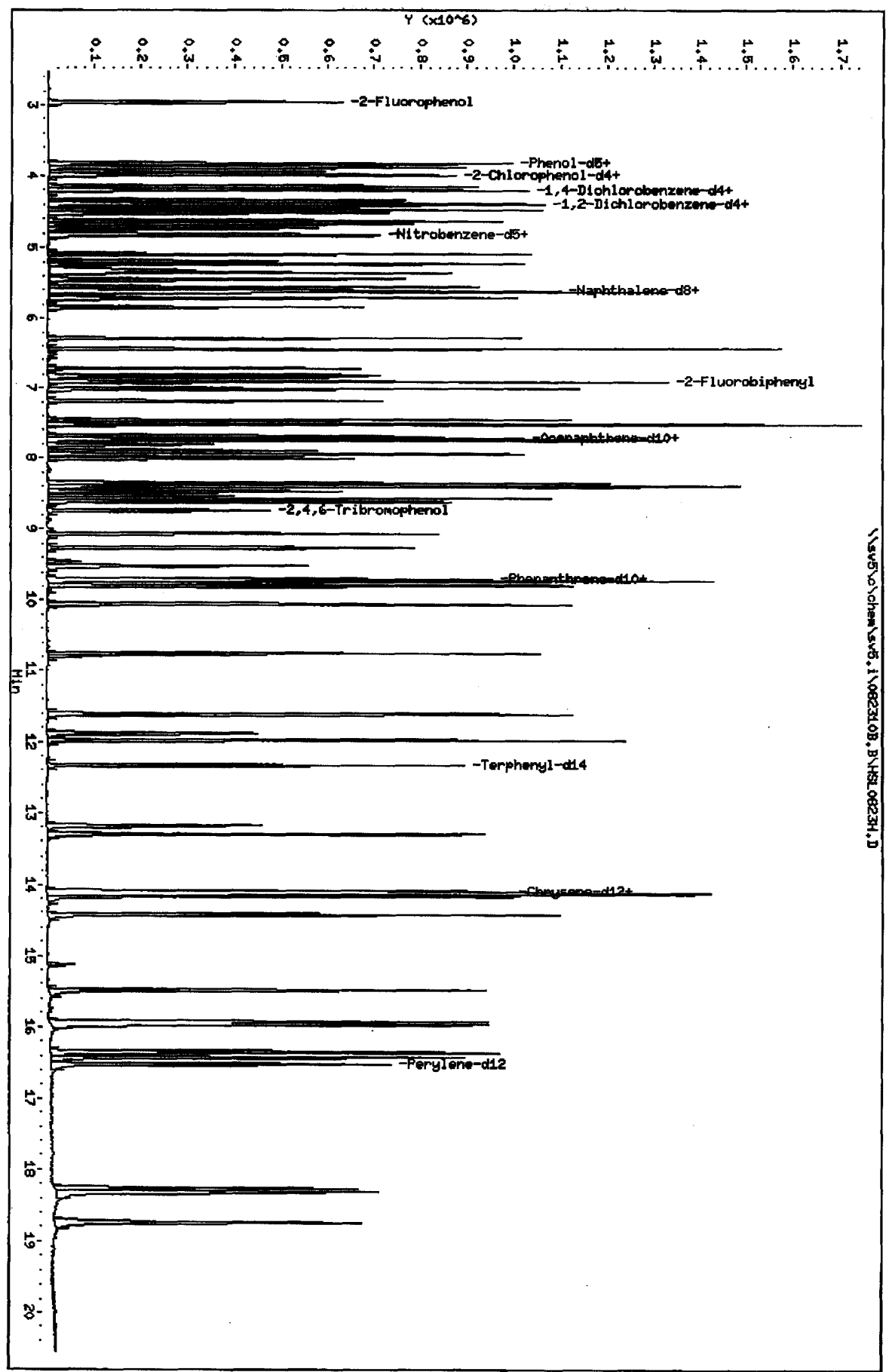
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	112399	56200	224798	120025	6.78
2 Naphthalene-d8	494728	247364	989456	518107	4.73
3 Acenaphthene-d10	264752	132376	529504	274779	3.79
4 Phenanthrene-d10	415811	207906	831622	428920	3.15
5 Chrysene-d12	431516	215758	863032	430759	-0.18
6 Perylene-d12	416460	208230	832920	420242	0.91

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	4.18	3.68	4.68	4.18	0.00
2 Naphthalene-d8	5.60	5.10	6.10	5.60	0.00
3 Acenaphthene-d10	7.72	7.22	8.22	7.72	0.00
4 Phenanthrene-d10	9.70	9.20	10.20	9.70	0.00
5 Chrysene-d12	14.12	13.62	14.62	14.12	0.00
6 Perylene-d12	16.53	16.03	17.03	16.53	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\0823108.B\HSL0823H.D  
 Date: 23-AUG-2010 19:17  
 Client ID: 8270F.H  
 Sample Info: HSL\_080 ug/ml ICV2:444444  
 Column phase:

Instrument: sv5.1  
 Operator: KT  
 Column diameter: 2.00



\\sv5\chem\sv5.1\0823108.B\HSL0823H.D

**Sample Extraction/Preparation Log**  
**Copies and Checklists**

**TestAmerica West Sacramento**  
**Organic Prep Log**  
**8270 Air**

Box # Air Tox#287  
 Shared QC Batch: N/A  
 Shares QC With: N/A

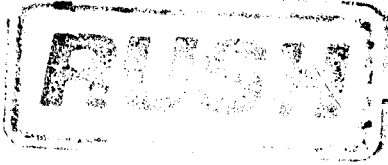


THE LEADER IN ENVIRONMENTAL TESTING

<b>Internal COC:</b>	
Delivered to Inst.:	<u>9/24/10</u>
Inst Receipt:	

Prep Reagents		
Reagent	Supplier	Lot #
1:1 DCM:Acetone	NA	<u>N/A</u>
DCM	Baker	<u>J23502</u>
Na2SO4	Baker	<u>3640-53B</u>

**Batch: 0235315**  
 MS Run #:  
 Prep Date: 8/23/2010  
 Method: JZ TO-13  
 Matrix: S AIR  
 Extraction: 11 SOXHLET (NONE,Na2SO4)  
 QC: 3W AMBIENT AIR TESTING  
 SAC: JZ - S - 11 - 3W



WS-OP-0006

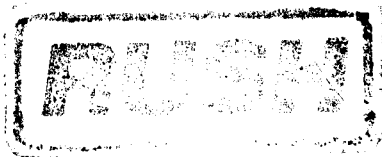
Soxhlet time on: 17:45 Soxhlet time off: 9:30 8/24/10

Extraction Table							
Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size	Final Volume		Analysis Hold Time Expires
					1mL	Other	
G0H210471 - 5		L507J1AA	8/25/2010	1.0	✓		9/27/2010
G0H210471 - 6		L507K1AA	8/25/2010	1.0	✓		9/27/2010
G0H210471 - 7		L507L1AA	8/26/2010	1.0	✓		9/28/2010
G0H210471 - 8		L507M1AA	8/26/2010	1.0	✓		9/28/2010
G0H230000 - 315	B	L518J1AA	8/25/2010	1.0	✓		9/27/2010
G0H230000 - 315	C	L518J1AC	8/25/2010	1.0	✓		9/27/2010
G0H230000 - 315	L	L518J1AD	8/25/2010	1.0	✓		9/27/2010

- XAD / PUF PUF-XAD
- Filter
- Impinger

Comments/NCMs: Water noticed in soxhlets after extraction 90% 8/24/10

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Surrogate Spike All Samples	<u>500ul/10AIR0103/ABN surrogate</u>	<u>11/24/10</u>	<u>ECF</u>	<u>SV</u>	<u>8/23/10</u>
Spike Mix LCS/LCSP/MS/MS	<u>1.0ml/100P0187/8270 AL spike</u>	<u>1/1/11</u>	<u>ECF</u>	<u>SV</u>	<u>8/23/10</u>
Pre-Spike Standard All Samples	<u>250ul/10AIR0103/1.25 MB on 11/20/10</u>	<u>11/3/10</u>	<u>ECF</u>	<u>SV</u>	<u>8/23/10</u>
Internal Standard All Samples	<u>10WSSV0084</u>	<u>4/8/11</u>	<u>SMS</u>	<u>SV</u>	<u>8/25/10</u>
Soxhlet Extraction Analyst/Date	<u>ECF 8/23/10</u>	Concentration Analyst/Date	<u>ECF 8/24/10</u>	KD Analyst/Date	<u>ECF 8/24/10</u>
Liq Liq Extraction Analyst/Date	<u>N/A</u>	KD Temp	<u>82°C</u>	Review Analyst/Date	



Prep Batch(es) 0235315

Test: T0-13

Prep Date: 8/23/10

Holding Times: 8/25/10 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: [Signature]

Date: 8/23/10

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

Date: 8/24/10

Comments:

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RQC058

TestAmerica Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 8/24/10  
Time: 16:13:46

LEV	LEV	LEV	LEV
1	2	1	2
Y	Blank	Y	Weights/Volumes
Y	Check	Y	Spike & Surrogate Worksheet
-	MS/MSD	Y	Vial contains correct volume
-		Y	Labels, greenbars, worksheets
		-	Computer batch: correct & all match
		-	Anomalies to Extraction Method

\*\*\*\*\*  
 \* OC BATCH: 0235315 \*  
 \*\*\*\*\*

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

\*\*\*\*\*  
 \* PREP DATE: 8/23/10 16:45  
 \* COMP DATE: 8/24/10 17:00  
 \*\*\*\*\*

Reviewer/Date: LARSONE / 8/24/10

Semi-volatile Organics by GCMS in Air (TO-13A)  
 SOXHLFT (NONE, Na2SO4)

EXTR	ANL	LOT#	MSRPN#	TEST	EXT	MTH	MATRIX	INIT/	PH'S	ADJ1	ADJ2	EXTRACTION	SOLVENTS	VOL	EXCHANGE	VOL	SPIKE	STANDARD/	
EXTR	DUE	WORK	ORDER	FLGS				WT/VOL	ADJ1	ADJ2		VOL	EXCHANGE				SURROGATE	ID	
8/25/10	8/27/10	G0H210471-006	L507K-1-AA		R	11	JZ	AIR	1.0Sample	NA	NA	DCM	700.0	.0	500UL/10AIR0108/ABN	SURR			
COMMENTS: G0H210471-007																			
8/26/10	8/27/10	G0H210471-008	L507M-1-AA		R	11	JZ	AIR	1.0Sample	NA	NA	DCM	700.0	.0	500UL/10AIR0108/ABN	SURR			
COMMENTS: G0H210471-008																			
8/25/10	0/00/00	G0H230000-315	L518J-1-AAB		R	11	JZ	AIR	1.0Sample	NA	NA	DCM	700.0	.0	250UL/10AIR0103/1,2-DCB	SURR			
COMMENTS: G0H230000-315																			
8/25/10	0/00/00	G0H230000-315	L518J-1-ACC		R	11	JZ	AIR	1.0Sample	NA	NA	DCM	700.0	.0	1.0ML/100EP0187/8270	SPIK			
COMMENTS: G0H230000-315																			
8/25/10	0/00/00	G0H230000-315	L518J-1-ADL		R	11	JZ	AIR	1.0Sample	NA	NA	DCM	700.0	.0	1.0ML/100EP0187/8270	SPIK			
COMMENTS: G0H230000-315																			

R = RUSH C = CLP  
 E = EPA 600 D = EXP. DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

TestAmerica West Sacramento  
GC/MS Data Review Checklist

Batch: 0235315

Method ID: Semivolatile Organics by GCMS in Air (TO-13A)

NCM: Y N

A. Calibration/Instrument Run QC	Analyst	Reviewer	N/A
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. QA/QC			
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.	✓	✓	
C. Sample Analysis			
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.	✓	✓	
D. Documentation			
1. Are all nonconformances documented appropriately?	✓	✓	
2. Quantims entry correct, including dates and times.	✓	✓	
3. Appropriate footnotes used.	✓	✓	

Analyst: [Signature]

Date: 8/26/10

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

Date: 8/27/10

Comments: \_\_\_\_\_  
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