

January 8, 2010

TestAmerica Project Number: G9L120491
PO/Contract:

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

Dear Ms. Arnold,

This report contains the analytical results for the samples received under chain of custody by TestAmerica on December 12, 2009. These samples are associated with your Henderson NV 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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Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

Case Narrative

TestAmerica West Sacramento Project Number G9L120491

SOLID, 8290, Dioxins/Furans

Sample(s): 1, 2, 3, 4, 5, 6, 7, 8, 8, 8

All of the native dioxins & furans were low and outside the method limits in the LCS.

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

The bracketing continuing calibration standard listed below has analytes 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 (RRF) 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.

ST1222A; [4D5], [23-DEC-2009], [19:02:12]

[1,2,3,6,7,8-HxCDF ave RRF = 1.64]

[1,2,3,4,7,8-HxCDD ave RRF = 1.05]

Sample(s): 3, 7, 8, 8, 8

The method blank (MB) and associated samples have 2,3,7,8-TCDF contamination confirmed above the LCL. The samples are not greater than 10X the level in the MB and require re-extraction.

Sample(s): 1, 2, 3, 4, 5, 6, 7, 8, 8, 8

The following samples and the MB required Confirmation (CON).

Lot #: [G9L120491]

Sample	Inj Time	Inj Date	Filename	Reason
MB	10:44	12/23/2009	23DE095D2	CON
1	13:49	12/23/2009	23DE095D2	CON
2	13:12	12/23/2009	23DE095D2	CON
3	11:21	12/23/2009	23DE095D2	CON
4	15:40	12/23/2009	23DE095D2	CON
5	14:26	12/23/2009	23DE095D2	CON
6	3:20	12/24/2009	23DE09A5D2	CON
7	0:52	12/24/2009	23DE09A5D2	CON
8	1:29	12/24/2009	23DE09A5D2	CON
8 MS	2:06	12/24/2009	23DE09A5D2	CON
8 MSD	2:43	12/24/2009	23DE09A5D2	CON

Case Narrative

TestAmerica West Sacramento Project Number G9L120491

Sample(s): 3, 7, 8

Several analytes in the MB and in each of the above samples 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.

Sample(s): 1, 2, 3, 4, 5, 6, 7, 8, 8, 8

The matrix spike/matrix spike duplicate (MS/MSD) associated with this extraction batch has recovery(s) and/or precision is outside the established control limits for the compounds listed below. Acceptable laboratory control sample (LCS) data demonstrate that the analytical system is in control. This anomaly is most likely matrix related.

[1,2,3,7,8,9 HxCDD]

Sample(s): 1, 4, 5, 6

The concentrations of several analytes in the above samples exceeded the upper quantitation level of the initial calibration curve, but the peaks did not saturate the instrument detector. Historical data indicates that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported with the "E" qualifier.

Sample(s): 2, 4, 5, 6

The above samples exhibited elevated noise or matrix interferences for several analytes requiring the detection limits to be raised appropriately. These analytes were flagged with the "G" qualifier.

Sample(s): 1, 3, 4, 6, 7, 8, 8, 8

Several internal standard recoveries are lower than the method recommended goal. Generally, data quality is not considered affected if the internal standard signal-to-noise ratio is greater than 10:1, which is achieved for all internal standards in the above samples. All detection limits are below the lower calibration limit and there is no adverse impact on data quality.

Sample(s): 3, 7, 8, 8, 8

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.

Case Narrative

TestAmerica West Sacramento Project Number G9L120491

Sample(s): 3, 7, 8, 8, 8

The internal standard recovery is lower than the method recommended goal. Generally, data quality is not considered affected if the internal standard signal-to-noise ratio is greater than 10:1, which is achieved for all internal standards in the sample. All detection limits are below the lower calibration limit and there is no adverse impact on data quality.

13C-1,2,3,4,6,7,8-HpCDD

13C-1,2,3,4,6,7,8-HpCDF

13C-OCDD

WATER, 8290, Dioxins/Furans

Sample(s): 9

Several analytes in the MB and in the above 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.

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.

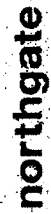
Sample Summary

TestAmerica West Sacramento Project Number G9L120491

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LQ2K5	1	RSAH3-1.5BR	12/11/2009 09:54 AM	12/12/2009 09:15 AM
LQ2K7	2	RSAH3-1BR	12/11/2009 09:48 AM	12/12/2009 09:15 AM
LQ2K8	3	RSAJ2-1.5BR	12/11/2009 09:00 AM	12/12/2009 09:15 AM
LQ2K9	4	RSAJ2-1BR	12/11/2009 08:55 AM	12/12/2009 09:15 AM
LQ2LA	5	RS AK3-1.5BR	12/11/2009 08:30 AM	12/12/2009 09:15 AM
LQ2LC	6	RS AK3-1BR	12/11/2009 08:25 AM	12/12/2009 09:15 AM
LQ2LD	7	SA75-1.5BR	12/11/2009 07:55 AM	12/12/2009 09:15 AM
LQ2LE	8	SA75-1BR	12/11/2009 07:50 AM	12/12/2009 09:15 AM
LQ224	9	EB121109-SO-A1	12/11/2009 10:45 AM	12/12/2009 09:15 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.



1100 Quail Street, Suite 102, Newport Beach, CA 92660
(949) 260-9293

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate.

COC # 2027 001-013005
Total # of Samples: 9
Event Complete?

ITEM #	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION	MATRIX CODE	G-GRAB C-COMP	SAMPLE TYPE	SAMPLE DATE	SAMPLE TIME	# OF CONTAINERS	Comments/Lab Sample I.D.	Regular		Rush	Mark One
										No	X		
	RSAH3-1.5BR	RSAH3	SO	G	N	12/11/2009	09:54	1	4 oz clear jar	X			
	RSAH3-1BR	RSAH3	SO	G	N	12/11/2009	09:48	1	4 oz clear jar	X			
	RSAJ2-1.5BR	RSAJ2	SO	G	N	12/11/2009	09:00	1	4 oz clear jar	X			
	RSAJ2-1BR	RSAJ2	SO	G	N	12/11/2009	08:55	1	4 oz clear jar	X			
	RSAK3-1.5BR	RSAK3	SO	G	N	12/11/2009	13:51	1	4 oz clear jar	X			
	RSAK3-1BR	RSAK3	SO	G	N	12/11/2009	06:20	1	4 oz clear jar	X			
	SA75-1.5BR	SA75	SO	G	N	12/11/2009	07:55	1	4 oz clear jar	X			
	SA75-1BR	SA75	SO	G	N	12/11/2009	8:30	1	4 oz clear jar	X			
	EB121109-SO-A1		W	G	EB	12/11/2009	10:45	1	2 / Amber Glass	X			

Required Project Information:
 Site ID #: Tronox LLC, Henderson
 Project #: 2027.001
 Site Address: 560 W. Lata Head Drive
 City: Henderson State, Zip: NV
 Site PM Name: Derrick Willis
 Phone/Fac: (949) 375-7004
 Site PM Email: derrick.willis@tronox.com

Required Invoice Information:
 Send Invoice to: Susan Crowley - Tronox LLC
 Address: PO Box 55
 City/Prov: Henderson, NV 89009 Phone #: (949) 260-9293 (NGEM)
 PO #:
 Send EDD to: frank.hager@trn.com
 CC Handcopy report to: PDF Electronic Version Only
 CC Handcopy report to:

Additional Comments/Special Instructions:
 No-416 Dana Brown, NGEM 12/11/11 4:30 PM by Tronox 1100 3
 12-11-09

Sample Receipt Conditions:
 Temp in OC: _____
 Samples on Ice? Y/N: Y/N
 Sample Intact? Y/N: Y/N
 Trip Blank? Y/N: Y/N

PRINT Name of SAMPLER: Dana R. Brown
 SIGNATURE OF SAMPLER: [Signature]
 DATE SIGNED: 12-11-09 Time: 16:30

Environmental Standards, Inc-Last Updated-031609
 * 1 labeled @ 8:30
 1 labeled @ 8:25
 2 labeled @ 7:50
 @ 12-11-09

411111 THE LEADER IN ENVIRONMENTAL TESTING

CLIENT Ironox PM PA LOG # 62432

LOT# (QUANTIMS ID) G9L120491 QUOTE# 94087 LOCATION 1130

DATE RECEIVED 12-12-09 TIME RECEIVED 915 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) 543557, 543558

SHIPPING CONTAINER(S) TAL CLIENT N/A

COC #(S) 2027-001.013005

TEMPERATURE BLANK Observed: 3 Corrected: 3

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 2, 3, 4 Average 3 Corrected Average 3

LABORATORY THERMOMETER ID:

IR UNIT: #4 #5 OTHER

AK 12-12-09
Initials Date

pH MEASURED YES ANOMALY N/A

LABELLED BY.....

LABELS CHECKED BY.....

PEER REVIEW NA

SHORT HOLD TEST NOTIFICATION

SAMPLE RECEIVING

WETCHEM N/A

VOA-ENCORES N/A

METALS NOTIFIED OF FILTER/PRESERVE VIA VERBAL & EMAIL N/A

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH 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

AK 12-12-09
Initials Date

Notes PSAK3-1.5BR @ 1351 labeled @ 830

PSAK3-1BR @ 820 : " " 825

PSAK-SA75-1BR @ 830 labeled @ 750

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

Lot ID: _____

G9L120491

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VOA*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
VOAh*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
AGB									Φ											
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

SOLID, 8290, Dioxins/Furans

Northgate Environmental Management, Inc.

Sample ID: RSAH3-1.5BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....: G9L120491 - 001
Date Sampled....: 12/11/09
Prep Date....: 12/21/09
Prep Batch #: 9355435
Initial Wgt/Vol : 10.02 g

Work Order #....: LQ2K52AC
Date Received....: 12/12/09
Analysis Date....: 12/23/09
Dilution Factor....: 0.99
Analyst ID....: Sonia Ouni

Matrix....: SOLID
Instrument ID....: 4D5
% Moisture....: 3.0
Units....: pg/g

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	8.6 B	0.51	1.0	8.6
1,2,3,7,8-PeCDD	32	2.6	1.0	32
1,2,3,4,7,8-HxCDD	19 B	2.6	0.1	1.9
1,2,3,6,7,8-HxCDD	40 B	2.6	0.1	4.0
1,2,3,7,8,9-HxCDD	39 B	2.6	0.1	3.9
1,2,3,4,6,7,8-HpCDD	140 B	2.6	0.01	1.4
OCDD	130 B	5.1	0.0003	0.039
2,3,7,8-TCDF	240 E CON B	0.51	0.1	24
1,2,3,7,8-PeCDF	530 B	2.6	0.03	16
2,3,4,7,8-PeCDF	250 B	2.6	0.3	75
1,2,3,4,7,8-HxCDF	930 B	4.2	0.1	93
1,2,3,6,7,8-HxCDF	660 B	3.9	0.1	66
2,3,4,6,7,8-HxCDF	140 B	4.1	0.1	14
1,2,3,7,8,9-HxCDF	120 B	4.6	0.1	12
1,2,3,4,6,7,8-HpCDF	2000 B	3.5	0.01	20
1,2,3,4,7,8,9-HpCDF	840 B	4.2	0.01	8.4
OCDF	5600 B	5.1	0.0003	1.7

Total TEQ Concentration

380

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	57	40 - 135
13C-1,2,3,7,8-PeCDD	43	40 - 135
13C-1,2,3,6,7,8-HxCDD	57	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	42	40 - 135
13C-OCDD	25 *	40 - 135
13C-2,3,7,8-TCDF	56	40 - 135
13C-1,2,3,7,8-PeCDF	46	40 - 135
13C-1,2,3,4,7,8-HxCDF	54	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	43	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Northgate Environmental Management, Inc.

Sample ID: RSAH3-1.5BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 001	Work Order #....:	LQ2K52AC	Matrix....:	SOLID
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	4D5
Prep Date....:	12/21/09	Analysis Date....:	12/23/09	% Moisture....:	3.0
Prep Batch #:	9355435	Dilution Factor....:	0.99	Units....:	pg/g
Initial Wgt/Vol :	10.02 g	Analyst ID....:	Sonia Ouni		

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.
- E Estimated result. Result concentration exceeds the calibration range.

Northgate Environmental Management, Inc.

Client Sample ID: RSAH3-1.5BR

Trace Level Organic Compounds

Lot-Sample #...: G9L120491-001 Work Order #...: LQ2K52AC Matrix.....: SOLID
 Date Sampled...: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/21/09 Analysis Date...: 12/23/09
 Prep Batch #...: 9355435
 Dilution Factor: 0.99
 % Moisture.....: 3.0

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	8.6 B	0.51	pg/g	SW846 8290
1,2,3,7,8-PeCDD	32	2.6	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	19 B	2.6	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	40 B	2.6	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	39 B	2.6	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	140 B	2.6	pg/g	SW846 8290
OCDD	130 B	5.1	pg/g	SW846 8290
2,3,7,8-TCDF	240 E, CON, B	0.51	pg/g	SW846 8290
1,2,3,7,8-PeCDF	530 B	2.6	pg/g	SW846 8290
2,3,4,7,8-PeCDF	250 B	2.6	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	930 B	4.2	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	660 B	3.9	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	140 B	4.1	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	120 B	4.6	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	2000 B	3.5	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	840 B	4.2	pg/g	SW846 8290
OCDF	5600 B	5.1	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	57	(40 - 135)
13C-1,2,3,7,8-PeCDD	43	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	57	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	42	(40 - 135)
13C-OCDD	25 *	(40 - 135)
13C-2,3,7,8-TCDF	56	(40 - 135)
13C-1,2,3,7,8-PeCDF	46	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	54	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	43	(40 - 135)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Estimated result. Result concentration exceeds the calibration range.

CON Confirmation analysis.

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: RSAH3-1BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....: G9L120491 - 002	Work Order #....: LQ2K72AC	Matrix....: SOLID
Date Sampled....: 12/11/09	Date Received....: 12/12/09	Instrument ID....: 4D5
Prep Date....: 12/21/09	Analysis Date....: 12/23/09	% Moisture....: 2.9
Prep Batch #: 9355435	Dilution Factor....: 0.99	Units....: pg/g
Initial Wgt/Vol : 10.04 g	Analyst ID....: Sonia Ouni	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	4.7 B	0.51	1.0	4.7
1,2,3,7,8-PeCDD	16	2.6	1.0	16
1,2,3,4,7,8-HxCDD	10 B	2.6	0.1	1.0
1,2,3,6,7,8-HxCDD	22 B	2.6	0.1	2.2
1,2,3,7,8,9-HxCDD	23 B	2.6	0.1	2.3
1,2,3,4,6,7,8-HpCDD	74 B	2.6	0.01	0.74
OCDD	75 B	5.1	0.0003	0.022
2,3,7,8-TCDF	120 CON B	0.51	0.1	12
1,2,3,7,8-PeCDF	260 B	2.6	0.03	7.8
2,3,4,7,8-PeCDF	120 B	2.6	0.3	36
1,2,3,4,7,8-HxCDF	470 B	2.6	0.1	47
1,2,3,6,7,8-HxCDF	330 B	2.6	0.1	33
2,3,4,6,7,8-HxCDF	67 B	2.6	0.1	6.7
1,2,3,7,8,9-HxCDF	61 B	2.6	0.1	6.1
1,2,3,4,6,7,8-HpCDF	1000 B	2.6	0.01	10.0
1,2,3,4,7,8,9-HpCDF	390 G B	2.8	0.01	3.9
OCDF	2900 E B	5.1	0.0003	0.87

Total TEQ Concentration

190

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	70	40 - 135
13C-1,2,3,7,8-PeCDD	54	40 - 135
13C-1,2,3,6,7,8-HxCDD	67	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	60	40 - 135
13C-OCDD	40	40 - 135
13C-2,3,7,8-TCDF	64	40 - 135
13C-1,2,3,7,8-PeCDF	58	40 - 135
13C-1,2,3,4,7,8-HxCDF	71	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	63	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Northgate Environmental Management, Inc.

Sample ID: RSAH3-1BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 002	Work Order #....:	LQ2K72AC	Matrix....:	SOLID
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	4D5
Prep Date....:	12/21/09	Analysis Date....:	12/23/09	% Moisture....:	2.9
Prep Batch #:	9355435	Dilution Factor....:	0.99	Units....:	pg/g
Initial Wgt/Vol :	10.04 g	Analyst ID....:	Sonia Ouni		

Notes:

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

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- CON Confirmation analysis.
- E Estimated result. Result concentration exceeds the calibration range.
- G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Northgate Environmental Management, Inc.

Client Sample ID: RSAH3-1BR

Trace Level Organic Compounds

Lot-Sample #....: G9L120491-002 Work Order #....: LQ2K72AC Matrix.....: SOLID
 Date Sampled....: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/21/09 Analysis Date...: 12/23/09
 Prep Batch #....: 9355435
 Dilution Factor: 0.99
 % Moisture.....: 2.9

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	4.7 B	0.51	pg/g	SW846 8290
1,2,3,7,8-PeCDD	16	2.6	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	10 B	2.6	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	22 B	2.6	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	23 B	2.6	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	74 B	2.6	pg/g	SW846 8290
OCDD	75 B	5.1	pg/g	SW846 8290
2,3,7,8-TCDF	120 CON,B	0.51	pg/g	SW846 8290
1,2,3,7,8-PeCDF	260 B	2.6	pg/g	SW846 8290
2,3,4,7,8-PeCDF	120 B	2.6	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	470 B	2.6	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	330 B	2.6	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	67 B	2.6	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	61 B	2.6	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	1000 B	2.6	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	390 G,B	2.8	pg/g	SW846 8290
OCDF	2900 E,B	5.1	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	70	(40 - 135)
13C-1,2,3,7,8-PeCDD	54	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	60	(40 - 135)
13C-OCDD	40	(40 - 135)
13C-2,3,7,8-TCDF	64	(40 - 135)
13C-1,2,3,7,8-PeCDF	58	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	71	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	63	(40 - 135)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CON Confirmation analysis.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

E Estimated result. Result concentration exceeds the calibration range.

Northgate Environmental Management, Inc.

Sample ID: RSAJ2-1.5BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 003	Work Order #....:	LQ2K83AC	Matrix....:	SOLID
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	1D5
Prep Date....:	12/28/09	Analysis Date....:	01/04/10	% Moisture....:	5.8
Prep Batch #:	9362386	Dilution Factor....:	0.96	Units.....:	pg/g
Initial Wgt/Vol :	10.31 g	Analyst ID....:	Alora Kuczynski		

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND	0.52	1.0	0
1,2,3,7,8-PeCDD	0.49 J	2.6	1.0	0.49
1,2,3,4,7,8-HxCDD	ND	2.6	0.1	0
1,2,3,6,7,8-HxCDD	2.3 J	2.6	0.1	0.23
1,2,3,7,8,9-HxCDD	0.82 J Q	2.6	0.1	0.082
1,2,3,4,6,7,8-HpCDD	4.3 B	2.6	0.01	0.043
OCDD	4.8 J B	5.2	0.0003	0.0014
2,3,7,8-TCDF	3.2 CON	0.52	0.1	0.32
1,2,3,7,8-PeCDF	5.5	2.6	0.03	0.16
2,3,4,7,8-PeCDF	2.8	2.6	0.3	0.84
1,2,3,4,7,8-HxCDF	9.6 B	2.6	0.1	0.96
1,2,3,6,7,8-HxCDF	6.6 B	2.6	0.1	0.66
2,3,4,6,7,8-HxCDF	1.7 J	2.6	0.1	0.17
1,2,3,7,8,9-HxCDF	0.96 J	2.6	0.1	0.096
1,2,3,4,6,7,8-HpCDF	22 B	2.6	0.01	0.22
1,2,3,4,7,8,9-HpCDF	9.6 B	2.6	0.01	0.096
OCDF	57 B	5.2	0.0003	0.017

Total TEQ Concentration

4.4

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	53	40 - 135
13C-1,2,3,7,8-PeCDD	49	40 - 135
13C-1,2,3,6,7,8-HxCDD	60	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	30 *	40 - 135
13C-OCDD	18 *	40 - 135
13C-2,3,7,8-TCDF	55	40 - 135
13C-1,2,3,7,8-PeCDF	46	40 - 135
13C-1,2,3,4,7,8-HxCDF	49	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	28 *	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Northgate Environmental Management, Inc.

Sample ID: RSAJ2-1.5BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 003	Work Order #....:	LQ2K83AC	Matrix....:	SOLID
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	1D5
Prep Date....:	12/28/09	Analysis Date....:	01/04/10	% Moisture....:	5.8
Prep Batch #:	9362386	Dilution Factor....:	0.96	Units.....:	pg/g
Initial Wgt/Vol :	10.31 g	Analyst ID....:	Alora Kuczynski		

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.

Client Sample ID: RSAJ2-1.5BR

Trace Level Organic Compounds

Lot-Sample #...: G9L120491-003 Work Order #...: LQ2K83AC Matrix.....: SOLID
 Date Sampled...: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/28/09 Analysis Date...: 01/04/10
 Prep Batch #...: 9362386
 Dilution Factor: 0.96
 % Moisture.....: 5.8

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.52	pg/g	SW846 8290
1,2,3,7,8-PeCDD	0.49 J	2.6	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.6	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	2.3 J	2.6	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	0.82 J,Q	2.6	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	4.3 B	2.6	pg/g	SW846 8290
OCDD	4.8 J,B	5.2	pg/g	SW846 8290
2,3,7,8-TCDF	3.2 CON	0.52	pg/g	SW846 8290
1,2,3,7,8-PeCDF	5.5	2.6	pg/g	SW846 8290
2,3,4,7,8-PeCDF	2.8	2.6	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	9.6 B	2.6	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	6.6 B	2.6	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	1.7 J	2.6	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	0.96 J	2.6	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	22 B	2.6	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	9.6 B	2.6	pg/g	SW846 8290
OCDF	57 B	5.2	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	53	(40 - 135)
13C-1,2,3,7,8-PeCDD	49	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	60	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	30 *	(40 - 135)
13C-OCDD	18 *	(40 - 135)
13C-2,3,7,8-TCDF	55	(40 - 135)
13C-1,2,3,7,8-PeCDF	46	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	49	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	28 *	(40 - 135)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CON Confirmation analysis.

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: RSAJ2-1BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 004	Work Order #....:	LQ2K92AC	Matrix....:	SOLID
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	4D5
Prep Date....:	12/21/09	Analysis Date....:	12/23/09	% Moisture....:	5.5
Prep Batch #:	9355435	Dilution Factor....:	0.96	Units....:	pg/g
Initial Wgt/Vol :	10.4 g	Analyst ID....:	Sonia Ouni		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	21 B	0.51	1.0	21
1,2,3,7,8-PeCDD	58	2.5	1.0	58
1,2,3,4,7,8-HxCDD	34 B	2.5	0.1	3.4
1,2,3,6,7,8-HxCDD	89 B	2.5	0.1	8.9
1,2,3,7,8,9-HxCDD	69 B	2.5	0.1	6.9
1,2,3,4,6,7,8-HpCDD	290 B	2.5	0.01	2.9
OCDD	280 B	5.1	0.0003	0.084
2,3,7,8-TCDF	590 E CON B	0.51	0.1	59
1,2,3,7,8-PeCDF	970 G B	25	0.03	29
2,3,4,7,8-PeCDF	490 G B	26	0.3	150
1,2,3,4,7,8-HxCDF	1900 E G B	42	0.1	190
1,2,3,6,7,8-HxCDF	1200 E G B	39	0.1	120
2,3,4,6,7,8-HxCDF	300 G B	41	0.1	30
1,2,3,7,8,9-HxCDF	240 G B	46	0.1	24
1,2,3,4,6,7,8-HpCDF	4000 E G B	10	0.01	40
1,2,3,4,7,8,9-HpCDF	2400 E G B	12	0.01	24
OCDF	15000 E G B	7.1	0.0003	4.5

Total TEQ Concentration

770

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	71	40 - 135
13C-1,2,3,7,8-PeCDD	53	40 - 135
13C-1,2,3,6,7,8-HxCDD	58	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	32 *	40 - 135
13C-OCDD	19 *	40 - 135
13C-2,3,7,8-TCDF	63	40 - 135
13C-1,2,3,7,8-PeCDF	60	40 - 135
13C-1,2,3,4,7,8-HxCDF	66	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	33 *	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Northgate Environmental Management, Inc.

Sample ID: RSAJ2-1BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 004	Work Order #....:	LQ2K92AC	Matrix....:	SOLID
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	4D5
Prep Date....:	12/21/09	Analysis Date....:	12/23/09	% Moisture....:	5.5
Prep Batch #:	9355435	Dilution Factor....:	0.96	Units....:	pg/g
Initial Wgt/Vol :	10.4 g	Analyst ID....:	Sonia Ouni		

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.
- E Estimated result. Result concentration exceeds the calibration range.
- G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Northgate Environmental Management, Inc.

Client Sample ID: RSAJ2-1BR

Trace Level Organic Compounds

Lot-Sample #...: G9L120491-004 Work Order #...: LQ2K92AC Matrix.....: SOLID
 Date Sampled...: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/21/09 Analysis Date...: 12/23/09
 Prep Batch #...: 9355435
 Dilution Factor: 0.96
 % Moisture.....: 5.5

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	21 B	0.51	pg/g	SW846 8290
1,2,3,7,8-PeCDD	58	2.5	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	34 B	2.5	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	89 B	2.5	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	69 B	2.5	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	290 B	2.5	pg/g	SW846 8290
OCDD	280 B	5.1	pg/g	SW846 8290
2,3,7,8-TCDF	590 E, CON, B	0.51	pg/g	SW846 8290
1,2,3,7,8-PeCDF	970 G, B	25	pg/g	SW846 8290
2,3,4,7,8-PeCDF	490 G, B	26	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	1900 E, G, B	42	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	1200 E, G, B	39	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	300 G, B	41	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	240 G, B	46	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	4000 E, G, B	10	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	2400 E, G, B	12	pg/g	SW846 8290
OCDF	15000 E, G, B	7.1	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	71	(40 - 135)
13C-1,2,3,7,8-PeCDD	53	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	58	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	32 *	(40 - 135)
13C-OCDD	19 *	(40 - 135)
13C-2,3,7,8-TCDF	63	(40 - 135)
13C-1,2,3,7,8-PeCDF	60	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	66	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	33 *	(40 - 135)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Estimated result. Result concentration exceeds the calibration range.

CON Confirmation analysis.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: RSAK3-1.5BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....: G9L120491 - 005
 Date Sampled....: 12/11/09
 Prep Date....: 12/21/09
 Prep Batch #: 9355435
 Initial Wgt/Vol : 10.19 g

Work Order #....: LQ2LA2AC
 Date Received....: 12/12/09
 Analysis Date....: 12/23/09
 Dilution Factor....: 0.98
 Analyst ID....: Sonia Ouni

Matrix....: SOLID
 Instrument ID....: 4D5
 % Moisture....: 5.4
 Units.....: pg/g

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	12 B	0.52	1.0	12
1,2,3,7,8-PeCDD	43	2.6	1.0	43
1,2,3,4,7,8-HxCDD	28 B	2.6	0.1	2.8
1,2,3,6,7,8-HxCDD	72 B	2.6	0.1	7.2
1,2,3,7,8,9-HxCDD	69 B	2.6	0.1	6.9
1,2,3,4,6,7,8-HpCDD	240 B	2.6	0.01	2.4
OCDD	230 B	5.2	0.0003	0.069
2,3,7,8-TCDF	280 E G CON B	0.54	0.1	28
1,2,3,7,8-PeCDF	610 G B	18	0.03	18
2,3,4,7,8-PeCDF	310 G B	19	0.3	93
1,2,3,4,7,8-HxCDF	1200 E G B	6.6	0.1	120
1,2,3,6,7,8-HxCDF	820 G B	6.1	0.1	82
2,3,4,6,7,8-HxCDF	170 G B	6.5	0.1	17
1,2,3,7,8,9-HxCDF	81 G B	7.3	0.1	8.1
1,2,3,4,6,7,8-HpCDF	2700 E G B	4.4	0.01	27
1,2,3,4,7,8,9-HpCDF	1000 E G B	5.3	0.01	10.0
OCDF	9200 E B	5.2	0.0003	2.8
Total TEQ Concentration				480

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	71	40 - 135
13C-1,2,3,7,8-PeCDD	56	40 - 135
13C-1,2,3,6,7,8-HxCDD	73	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	71	40 - 135
13C-OCDD	50	40 - 135
13C-2,3,7,8-TCDF	68	40 - 135
13C-1,2,3,7,8-PeCDF	61	40 - 135
13C-1,2,3,4,7,8-HxCDF	80	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	76	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Northgate Environmental Management, Inc.

Sample ID: RSAK3-1.5BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 005	Work Order #....:	LQ2LA2AC	Matrix....:	SOLID
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	4D5
Prep Date....:	12/21/09	Analysis Date....:	12/23/09	% Moisture....:	5.4
Prep Batch #:	9355435	Dilution Factor....:	0.98	Units.....:	pg/g
Initial Wgt/Vol :	10.19 g	Analyst ID....:	Sonia Ouni		

Notes:

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

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
CON Confirmation analysis.
E Estimated result. Result concentration exceeds the calibration range.
G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Northgate Environmental Management, Inc.

Client Sample ID: RSAK3-1.5BR

Trace Level Organic Compounds

Lot-Sample #...: G9L120491-005 Work Order #...: LQ2LA2AC Matrix.....: SOLID
 Date Sampled...: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/21/09 Analysis Date...: 12/23/09
 Prep Batch #...: 9355435
 Dilution Factor: 0.98
 % Moisture.....: 5.4

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	12 B	0.52	pg/g	SW846 8290
1,2,3,7,8-PeCDD	43	2.6	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	28 B	2.6	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	72 B	2.6	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	69 B	2.6	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	240 B	2.6	pg/g	SW846 8290
OCDD	230 B	5.2	pg/g	SW846 8290
2,3,7,8-TCDF	280 E,G,CON,B	0.54	pg/g	SW846 8290
1,2,3,7,8-PeCDF	610 G,B	18	pg/g	SW846 8290
2,3,4,7,8-PeCDF	310 G,B	19	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	1200 E,G,B	6.6	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	820 G,B	6.1	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	170 G,B	6.5	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	81 G,B	7.3	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	2700 E,G,B	4.4	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	1000 E,G,B	5.3	pg/g	SW846 8290
OCDF	9200 E,B	5.2	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	71	(40 - 135)
13C-1,2,3,7,8-PeCDD	56	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	73	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	71	(40 - 135)
13C-OCDD	50	(40 - 135)
13C-2,3,7,8-TCDF	68	(40 - 135)
13C-1,2,3,7,8-PeCDF	61	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	76	(40 - 135)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

E Estimated result. Result concentration exceeds the calibration range.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

CON Confirmation analysis.

Northgate Environmental Management, Inc.

Sample ID: RSAK3-1BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....: G9L120491 - 006	Work Order #....: LQ2LC2AC	Matrix....: SOLID
Date Sampled....: 12/11/09	Date Received....: 12/12/09	Instrument ID....: 4D5
Prep Date....: 12/21/09	Analysis Date....: 12/23/09	% Moisture....: 5.3
Prep Batch #: 9355435	Dilution Factor....: 0.98	Units.....: pg/g
Initial Wgt/Vol : 10.18 g	Analyst ID....: Sonia Ouni	

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	43 B	0.52	1.0	43
1,2,3,7,8-PeCDD	130 G	2.9	1.0	130
1,2,3,4,7,8-HxCDD	82 B	2.6	0.1	8.2
1,2,3,6,7,8-HxCDD	170 B	2.6	0.1	17
1,2,3,7,8,9-HxCDD	160 B	2.6	0.1	16
1,2,3,4,6,7,8-HpCDD	670 B	2.6	0.01	6.7
OCDD	630 B	5.2	0.0003	0.19
2,3,7,8-TCDF	1000 E G CON B	0.62	0.1	100
1,2,3,7,8-PeCDF	2100 E G B	7.0	0.03	63
2,3,4,7,8-PeCDF	1100 E G B	7.3	0.3	330
1,2,3,4,7,8-HxCDF	4100 E G B	16	0.1	410
1,2,3,6,7,8-HxCDF	2400 E G B	15	0.1	240
2,3,4,6,7,8-HxCDF	740 G B	16	0.1	74
1,2,3,7,8,9-HxCDF	430 G B	18	0.1	43
1,2,3,4,6,7,8-HpCDF	9100 E G B	16	0.01	91
1,2,3,4,7,8,9-HpCDF	4300 E G B	19	0.01	43
OCDF	31000 E G B	14	0.0003	9.3

Total TEQ Concentration

1600

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	72	40 - 135
13C-1,2,3,7,8-PeCDD	58	40 - 135
13C-1,2,3,6,7,8-HxCDD	73	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	42	40 - 135
13C-OCDD	27 *	40 - 135
13C-2,3,7,8-TCDF	118	40 - 135
13C-1,2,3,7,8-PeCDF	64	40 - 135
13C-1,2,3,4,7,8-HxCDF	69	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	47	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Northgate Environmental Management, Inc.

Sample ID: RSAK3-1BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 006	Work Order #....:	LQ2LC2AC	Matrix....:	SOLID
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	4D5
Prep Date....:	12/21/09	Analysis Date....:	12/23/09	% Moisture....:	5.3
Prep Batch #:	9355435	Dilution Factor....:	0.98	Units....:	pg/g
Initial Wgt/Vol :	10.18 g	Analyst ID....:	Sonia Ouni		

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.
- E Estimated result. Result concentration exceeds the calibration range.
- G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

Northgate Environmental Management, Inc.

Client Sample ID: RSAK3-1BR

Trace Level Organic Compounds

Lot-Sample #...: G9L120491-006 Work Order #...: LQ2LC2AC Matrix.....: SOLID
 Date Sampled...: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/21/09 Analysis Date...: 12/23/09
 Prep Batch #...: 9355435
 Dilution Factor: 0.98
 % Moisture.....: 5.3

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	43 B	0.52	pg/g	SW846 8290
1,2,3,7,8-PeCDD	130 G	2.9	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	82 B	2.6	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	170 B	2.6	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	160 B	2.6	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	670 B	2.6	pg/g	SW846 8290
OCDD	630 B	5.2	pg/g	SW846 8290
2,3,7,8-TCDF	1000 E,G,CON,B	0.62	pg/g	SW846 8290
1,2,3,7,8-PeCDF	2100 E,G,B	7.0	pg/g	SW846 8290
2,3,4,7,8-PeCDF	1100 E,G,B	7.3	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	4100 E,G,B	16	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	2400 E,G,B	15	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	740 G,B	16	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	430 G,B	18	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	9100 E,G,B	16	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	4300 E,G,B	19	pg/g	SW846 8290
OCDF	31000 E,G,B	14	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	72	(40 - 135)
13C-1,2,3,7,8-PeCDD	58	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	73	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	42	(40 - 135)
13C-OCDD	27 *	(40 - 135)
13C-2,3,7,8-TCDF	118	(40 - 135)
13C-1,2,3,7,8-PeCDF	64	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	69	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	47	(40 - 135)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

G Elevated reporting limit. The reporting limit is elevated due to matrix interference.

E Estimated result. Result concentration exceeds the calibration range.

CON Confirmation analysis.

* Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: SA75-1.5BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....: G9L120491 - 007
 Date Sampled....: 12/11/09
 Prep Date....: 12/28/09
 Prep Batch #: 9362386
 Initial Wgt/Vol: 10.1 g

Work Order #....: LQ2LD3AC
 Date Received....: 12/12/09
 Analysis Date....: 01/04/10
 Dilution Factor....: 0.99
 Analyst ID....: Alora Kuczynski

Matrix....: SOLID
 Instrument ID....: 1D5
 % Moisture....: 7.4
 Units....: pg/g

PARAMETER	RESULT		REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND		0.53	1.0	0
1,2,3,7,8-PeCDD	ND		2.7	1.0	0
1,2,3,4,7,8-HxCDD	ND		2.7	0.1	0
1,2,3,6,7,8-HxCDD	ND		2.7	0.1	0
1,2,3,7,8,9-HxCDD	ND		2.7	0.1	0
1,2,3,4,6,7,8-HpCDD	1.7	Q J B	2.7	0.01	0.017
OCDD	2.9	Q J B	5.3	0.0003	0.00087
2,3,7,8-TCDF	2.3	CON	0.53	0.1	0.23
1,2,3,7,8-PeCDF	3.3		2.7	0.03	0.099
2,3,4,7,8-PeCDF	1.6	Q J	2.7	0.3	0.48
1,2,3,4,7,8-HxCDF	6.8	B	2.7	0.1	0.68
1,2,3,6,7,8-HxCDF	4.3	B	2.7	0.1	0.43
2,3,4,6,7,8-HxCDF	1.1	J	2.7	0.1	0.11
1,2,3,7,8,9-HxCDF	0.71	J	2.7	0.1	0.071
1,2,3,4,6,7,8-HpCDF	18	B	2.7	0.01	0.18
1,2,3,4,7,8,9-HpCDF	8.4	B	2.7	0.01	0.084
OCDF	56	B	5.3	0.0003	0.017

Total TEQ Concentration

2.4

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	47	40 - 135
13C-1,2,3,7,8-PeCDD	45	40 - 135
13C-1,2,3,6,7,8-HxCDD	50	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	28	* 40 - 135
13C-OCDD	17	* 40 - 135
13C-2,3,7,8-TCDF	53	40 - 135
13C-1,2,3,7,8-PeCDF	42	40 - 135
13C-1,2,3,4,7,8-HxCDF	44	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	28	* 40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Northgate Environmental Management, Inc.

Sample ID: SA75-1.5BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 007	Work Order #....:	LQ2LD3AC	Matrix....:	SOLID
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	1D5
Prep Date....:	12/28/09	Analysis Date....:	01/04/10	% Moisture....:	7.4
Prep Batch #:	9362386	Dilution Factor....:	0.99	Units....:	pg/g
Initial Wgt/Vol :	10.1 g	Analyst ID....:	Alora Kuczynski		

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.

Client Sample ID: SA75-1.5BR

Trace Level Organic Compounds

Lot-Sample #...: G9L120491-007 Work Order #...: LQ2LD3AC Matrix.....: SOLID
 Date Sampled...: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/28/09 Analysis Date...: 01/04/10
 Prep Batch #...: 9362386
 Dilution Factor: 0.99
 % Moisture.....: 7.4

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.53	pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	2.7	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.7	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	2.7	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	ND	2.7	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	1.7 Q, J, B	2.7	pg/g	SW846 8290
OCDD	2.9 Q, J, B	5.3	pg/g	SW846 8290
2,3,7,8-TCDF	2.3 CON	0.53	pg/g	SW846 8290
1,2,3,7,8-PeCDF	3.3	2.7	pg/g	SW846 8290
2,3,4,7,8-PeCDF	1.6 Q, J	2.7	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	6.8 B	2.7	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	4.3 B	2.7	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	1.1 J	2.7	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	0.71 J	2.7	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	18 B	2.7	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	8.4 B	2.7	pg/g	SW846 8290
OCDF	56 B	5.3	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	47	(40 - 135)
13C-1,2,3,7,8-PeCDD	45	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	50	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	28 *	(40 - 135)
13C-OCDD	17 *	(40 - 135)
13C-2,3,7,8-TCDF	53	(40 - 135)
13C-1,2,3,7,8-PeCDF	42	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	44	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	28 *	(40 - 135)

NOTE (S) :

- Results and reporting limits have been adjusted for dry weight.
- Q Estimated maximum possible concentration (EMPC).
 - J Estimated result. Result is less than the reporting limit.
 - B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
 - CON Confirmation analysis.
 - * Surrogate recovery is outside stated control limits.

Northgate Environmental Management, Inc.

Sample ID: SA75-1BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....: G9L120491 - 008
 Date Sampled....: 12/11/09
 Prep Date....: 12/28/09
 Prep Batch #: 9362386
 Initial Wgt/Vol : 10.02 g

Work Order #....: LQ2LE3AC
 Date Received....: 12/12/09
 Analysis Date....: 01/04/10
 Dilution Factor....: 0.99
 Analyst ID....: Alora Kuczynski

Matrix....: SOLID
 Instrument ID....: 1D5
 % Moisture....: 5.9
 Units.....: pg/g

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	ND	0.53	1.0	0
1,2,3,7,8-PeCDD	ND	2.7	1.0	0
1,2,3,4,7,8-HxCDD	ND	2.7	0.1	0
1,2,3,6,7,8-HxCDD	0.35 J	2.7	0.1	0.035
1,2,3,7,8,9-HxCDD	0.30 J Q	2.7	0.1	0.030
1,2,3,4,6,7,8-HpCDD	0.79 J Q B	2.7	0.01	0.0079
OCDD	2.5 J Q B	5.3	0.0003	0.00075
2,3,7,8-TCDF	1.7 CON	0.53	0.1	0.17
1,2,3,7,8-PeCDF	2.1 Q J	2.7	0.03	0.063
2,3,4,7,8-PeCDF	1.0 J	2.7	0.3	0.30
1,2,3,4,7,8-HxCDF	3.5 B	2.7	0.1	0.35
1,2,3,6,7,8-HxCDF	2.9 Q B	2.7	0.1	0.29
2,3,4,6,7,8-HxCDF	0.86 J	2.7	0.1	0.086
1,2,3,7,8,9-HxCDF	0.50 J	2.7	0.1	0.050
1,2,3,4,6,7,8-HpCDF	11 B	2.7	0.01	0.11
1,2,3,4,7,8,9-HpCDF	4.6 B	2.7	0.01	0.046
OCDF	31 B	5.3	0.0003	0.0093

Total TEQ Concentration

1.5

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	51	40 - 135
13C-1,2,3,7,8-PeCDD	48	40 - 135
13C-1,2,3,6,7,8-HxCDD	54	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	39 *	40 - 135
13C-OCDD	25 *	40 - 135
13C-2,3,7,8-TCDF	51	40 - 135
13C-1,2,3,7,8-PeCDF	47	40 - 135
13C-1,2,3,4,7,8-HxCDF	48	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	36 *	40 - 135

QUALIFIERS

Results and reporting limits have been adjusted for dry weight.

Northgate Environmental Management, Inc.

Sample ID: SA75-1BR

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 008	Work Order #....:	LQ2LE3AC	Matrix....:	SOLID
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	1D5
Prep Date....:	12/28/09	Analysis Date....:	01/04/10	% Moisture....:	5.9
Prep Batch #:	9362386	Dilution Factor....:	0.99	Units....:	pg/g
Initial Wgt/Vol :	10.02 g	Analyst ID....:	Alora Kuczynski		

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.

Client Sample ID: SA75-1BR

Trace Level Organic Compounds

Lot-Sample #...: G9L120491-008 Work Order #...: LQ2LE3AC Matrix.....: SOLID
 Date Sampled...: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/28/09 Analysis Date...: 01/04/10
 Prep Batch #...: 9362386
 Dilution Factor: 0.99
 % Moisture.....: 5.9

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.53	pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	2.7	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.7	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	0.35 J	2.7	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	0.30 J,Q	2.7	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	0.79 J,Q,B	2.7	pg/g	SW846 8290
OCDD	2.5 J,Q,B	5.3	pg/g	SW846 8290
2,3,7,8-TCDF	1.7 CON	0.53	pg/g	SW846 8290
1,2,3,7,8-PeCDF	2.1 Q,J	2.7	pg/g	SW846 8290
2,3,4,7,8-PeCDF	1.0 J	2.7	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	3.5 B	2.7	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	2.9 Q,B	2.7	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	0.86 J	2.7	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	0.50 J	2.7	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	11 B	2.7	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	4.6 B	2.7	pg/g	SW846 8290
OCDF	31 B	5.3	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	51	(40 - 135)
13C-1,2,3,7,8-PeCDD	48	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	54	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	39 *	(40 - 135)
13C-OCDD	25 *	(40 - 135)
13C-2,3,7,8-TCDF	51	(40 - 135)
13C-1,2,3,7,8-PeCDF	47	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	48	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	36 *	(40 - 135)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CON Confirmation analysis.

* Surrogate recovery is outside stated control limits.

QC DATA ASSOCIATION SUMMARY

G9L120491

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	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
002	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
003	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
004	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
005	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
006	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
007	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
008	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
009	WATER	SW846 8290		9348326	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G9L120491
 MB Lot-Sample #: G9L210000-435

Work Order #...: LRF9L1AA

Matrix.....: SOLID

Prep Date.....: 12/21/09

Analysis Date...: 12/22/09

Prep Batch #...: 9355435

Dilution Factor: 1

PARAMETER	RESULT	DETECTION		METHOD
		LIMIT	UNITS	
2,3,7,8-TCDD	0.10 J,Q	0.50	pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	2.5	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	0.24 J	2.5	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	0.36 J,Q	2.5	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	0.47 J,Q	2.5	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	1.6 J	2.5	pg/g	SW846 8290
OCDD	2.3 J	5.0	pg/g	SW846 8290
2,3,7,8-TCDF	2.0 CON	0.50	pg/g	SW846 8290
1,2,3,7,8-PeCDF	4.1	2.5	pg/g	SW846 8290
2,3,4,7,8-PeCDF	2.0 J	2.5	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	5.5	2.5	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	5.8	2.5	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	1.1 J	2.5	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	0.81 J	2.5	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	14	2.5	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	5.7	2.5	pg/g	SW846 8290
OCDF	32	5.0	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT	RECOVERY
	RECOVERY	LIMITS
13C-2,3,7,8-TCDD	74	(40 - 135)
13C-1,2,3,7,8-PeCDD	56	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	85	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	80	(40 - 135)
13C-OCDD	78	(40 - 135)
13C-2,3,7,8-TCDF	65	(40 - 135)
13C-1,2,3,7,8-PeCDF	58	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	76	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	84	(40 - 135)

NOTE (S) :

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

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

CON Confirmation analysis.

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G9L120491 Work Order #...: LRNEV1AA Matrix.....: SOLID
 MB Lot-Sample #: G9L280000-386
 Analysis Date...: 01/04/10 Prep Date.....: 12/28/09
 Dilution Factor: 1 Prep Batch #...: 9362386

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	0.50	pg/g	SW846 8290
1,2,3,7,8-PeCDD	ND	2.5	pg/g	SW846 8290
1,2,3,4,7,8-HxCDD	ND	2.5	pg/g	SW846 8290
1,2,3,6,7,8-HxCDD	ND	2.5	pg/g	SW846 8290
1,2,3,7,8,9-HxCDD	ND	2.5	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDD	0.66 J,Q	2.5	pg/g	SW846 8290
OCDD	0.86 J,Q	5.0	pg/g	SW846 8290
2,3,7,8-TCDF	ND	0.50	pg/g	SW846 8290
1,2,3,7,8-PeCDF	ND	2.5	pg/g	SW846 8290
2,3,4,7,8-PeCDF	ND	2.5	pg/g	SW846 8290
1,2,3,4,7,8-HxCDF	0.96 J	2.5	pg/g	SW846 8290
1,2,3,6,7,8-HxCDF	0.49 J,Q	2.5	pg/g	SW846 8290
2,3,4,6,7,8-HxCDF	ND	2.5	pg/g	SW846 8290
1,2,3,7,8,9-HxCDF	ND	2.5	pg/g	SW846 8290
1,2,3,4,6,7,8-HpCDF	1.8 J	2.5	pg/g	SW846 8290
1,2,3,4,7,8,9-HpCDF	0.67 J,Q	2.5	pg/g	SW846 8290
OCDF	4.3 J	5.0	pg/g	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	44	(40 - 135)
13C-1,2,3,7,8-PeCDD	44	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	60	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	46	(40 - 135)
13C-OCDD	43	(40 - 135)
13C-2,3,7,8-TCDF	39 *	(40 - 135)
13C-1,2,3,7,8-PeCDF	41	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	48	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	47	(40 - 135)

NOTE (S) :

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

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G9L120491 Work Order #...: LRF9L1AC Matrix.....: SOLID
 LCS Lot-Sample#: G9L210000-435
 Prep Date.....: 12/21/09 Analysis Date...: 12/23/09
 Prep Batch #...: 9355435
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	96	(77 - 130)	SW846 8290
1,2,3,7,8-PeCDD	92	(79 - 134)	SW846 8290
1,2,3,4,7,8-HxCDD	86	(65 - 144)	SW846 8290
1,2,3,6,7,8-HxCDD	83	(73 - 147)	SW846 8290
1,2,3,7,8,9-HxCDD	85	(80 - 143)	SW846 8290
1,2,3,4,6,7,8-HpCDD	96	(86 - 134)	SW846 8290
OCDD	91	(80 - 137)	SW846 8290
2,3,7,8-TCDF	100	(79 - 137)	SW846 8290
1,2,3,7,8-PeCDF	98	(81 - 134)	SW846 8290
2,3,4,7,8-PeCDF	92	(76 - 132)	SW846 8290
1,2,3,4,7,8-HxCDF	98	(72 - 140)	SW846 8290
1,2,3,6,7,8-HxCDF	113	(63 - 152)	SW846 8290
2,3,4,6,7,8-HxCDF	100	(72 - 151)	SW846 8290
1,2,3,7,8,9-HxCDF	86	(72 - 152)	SW846 8290
1,2,3,4,6,7,8-HpCDF	102	(81 - 137)	SW846 8290
1,2,3,4,7,8,9-HpCDF	85	(79 - 139)	SW846 8290
OCDF	111	(75 - 141)	SW846 8290

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	77	(40 - 135)
13C-1,2,3,7,8-PeCDD	58	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	93	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	84	(40 - 135)
13C-OCDD	80	(40 - 135)
13C-2,3,7,8-TCDF	80	(40 - 135)
13C-1,2,3,7,8-PeCDF	62	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	86	(40 - 135)

NOTE (S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G9L120491 Work Order #...: LRF9L1AC Matrix.....: SOLID
 LCS Lot-Sample#: G9L210000-435
 Prep Date.....: 12/21/09 Analysis Date...: 12/23/09
 Prep Batch #...: 9355435
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
2,3,7,8-TCDD	20.0	19.1	pg/g	96	SW846 8290
1,2,3,7,8-PeCDD	100	91.6	pg/g	92	SW846 8290
1,2,3,4,7,8-HxCDD	100	85.6	pg/g	86	SW846 8290
1,2,3,6,7,8-HxCDD	100	82.7	pg/g	83	SW846 8290
1,2,3,7,8,9-HxCDD	100	85.5	pg/g	85	SW846 8290
1,2,3,4,6,7,8-HpCDD	100	95.5	pg/g	96	SW846 8290
OCDD	200	183	pg/g	91	SW846 8290
2,3,7,8-TCDF	20.0	20.0	pg/g	100	SW846 8290
1,2,3,7,8-PeCDF	100	98.0	pg/g	98	SW846 8290
2,3,4,7,8-PeCDF	100	92.2	pg/g	92	SW846 8290
1,2,3,4,7,8-HxCDF	100	98.5	pg/g	98	SW846 8290
1,2,3,6,7,8-HxCDF	100	113	pg/g	113	SW846 8290
2,3,4,6,7,8-HxCDF	100	100	pg/g	100	SW846 8290
1,2,3,7,8,9-HxCDF	100	85.8	pg/g	86	SW846 8290
1,2,3,4,6,7,8-HpCDF	100	102	pg/g	102	SW846 8290
1,2,3,4,7,8,9-HpCDF	100	84.8	pg/g	85	SW846 8290
OCDF	200	221	pg/g	111	SW846 8290

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	77	(40 - 135)
13C-1,2,3,7,8-PeCDD	58	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	93	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	84	(40 - 135)
13C-OCDD	80	(40 - 135)
13C-2,3,7,8-TCDF	80	(40 - 135)
13C-1,2,3,7,8-PeCDF	62	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	86	(40 - 135)

NOTE (S) :

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #....: G9L120491 Work Order #....: LRNEV1AC Matrix.....: SOLID
 LCS Lot-Sample#: G9L280000-386
 Prep Date.....: 12/28/09 Analysis Date...: 01/04/10
 Prep Batch #....: 9362386
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	94	(77 - 130)	SW846 8290
1,2,3,7,8-PeCDD	99	(79 - 134)	SW846 8290
1,2,3,4,7,8-HxCDD	88	(65 - 144)	SW846 8290
1,2,3,6,7,8-HxCDD	96	(73 - 147)	SW846 8290
1,2,3,7,8,9-HxCDD	83	(80 - 143)	SW846 8290
1,2,3,4,6,7,8-HpCDD	96	(86 - 134)	SW846 8290
OCDD	97	(80 - 137)	SW846 8290
2,3,7,8-TCDF	91	(79 - 137)	SW846 8290
1,2,3,7,8-PeCDF	97	(81 - 134)	SW846 8290
2,3,4,7,8-PeCDF	98	(76 - 132)	SW846 8290
1,2,3,4,7,8-HxCDF	101	(72 - 140)	SW846 8290
1,2,3,6,7,8-HxCDF	105	(63 - 152)	SW846 8290
2,3,4,6,7,8-HxCDF	102	(72 - 151)	SW846 8290
1,2,3,7,8,9-HxCDF	90	(72 - 152)	SW846 8290
1,2,3,4,6,7,8-HpCDF	102	(81 - 137)	SW846 8290
1,2,3,4,7,8,9-HpCDF	95	(79 - 139)	SW846 8290
OCDF	90	(75 - 141)	SW846 8290

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	56	(40 - 135)
13C-1,2,3,7,8-PeCDD	55	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	59	(40 - 135)
13C-OCDD	62	(40 - 135)
13C-2,3,7,8-TCDF	48	(40 - 135)
13C-1,2,3,7,8-PeCDF	51	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	54	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	54	(40 - 135)

NOTE (S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #....: G9L120491 Work Order #....: LRNEV1AC Matrix.....: SOLID
 LCS Lot-Sample#: G9L280000-386
 Prep Date.....: 12/28/09 Analysis Date...: 01/04/10
 Prep Batch #....: 9362386
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
2,3,7,8-TCDD	20.0	18.8	pg/g	94	SW846 8290
1,2,3,7,8-PeCDD	100	98.7	pg/g	99	SW846 8290
1,2,3,4,7,8-HxCDD	100	87.6	pg/g	88	SW846 8290
1,2,3,6,7,8-HxCDD	100	96.4	pg/g	96	SW846 8290
1,2,3,7,8,9-HxCDD	100	83.1	pg/g	83	SW846 8290
1,2,3,4,6,7,8-HpCDD	100	95.6	pg/g	96	SW846 8290
OCDD	200	195	pg/g	97	SW846 8290
2,3,7,8-TCDF	20.0	18.2	pg/g	91	SW846 8290
1,2,3,7,8-PeCDF	100	97.0	pg/g	97	SW846 8290
2,3,4,7,8-PeCDF	100	97.8	pg/g	98	SW846 8290
1,2,3,4,7,8-HxCDF	100	101	pg/g	101	SW846 8290
1,2,3,6,7,8-HxCDF	100	105	pg/g	105	SW846 8290
2,3,4,6,7,8-HxCDF	100	102	pg/g	102	SW846 8290
1,2,3,7,8,9-HxCDF	100	90.0	pg/g	90	SW846 8290
1,2,3,4,6,7,8-HpCDF	100	102	pg/g	102	SW846 8290
1,2,3,4,7,8,9-HpCDF	100	94.5	pg/g	95	SW846 8290
OCDF	200	180	pg/g	90	SW846 8290

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	56	(40 - 135)
13C-1,2,3,7,8-PeCDD	55	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	67	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	59	(40 - 135)
13C-OCDD	62	(40 - 135)
13C-2,3,7,8-TCDF	48	(40 - 135)
13C-1,2,3,7,8-PeCDF	51	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	54	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	54	(40 - 135)

NOTE (S) :

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #....: G9L120491 Work Order #....: LQ2LE1AF-MS Matrix.....: SOLID
 MS Lot-Sample #: G9L120491-008 LQ2LE1AG-MSD
 Date Sampled....: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/28/09 Analysis Date...: 01/04/10
 Prep Batch #....: 9362386
 Dilution Factor: 0.99 % Moisture.....: 5.9

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
2,3,7,8-TCDD	91	(77 - 130)			SW846 8290
	93	(77 - 130)	1.7	(0-30)	SW846 8290
1,2,3,7,8-PeCDD	102	(79 - 134)			SW846 8290
	103	(79 - 134)	0.48	(0-29)	SW846 8290
1,2,3,4,7,8-HxCDD	105	(65 - 144)			SW846 8290
	90	(65 - 144)	15	(0-36)	SW846 8290
1,2,3,6,7,8-HxCDD	102	(73 - 147)			SW846 8290
	102	(73 - 147)	0.02	(0-36)	SW846 8290
1,2,3,7,8,9-HxCDD	90	(80 - 143)			SW846 8290
	81	(80 - 143)	11	(0-31)	SW846 8290
1,2,3,4,6,7,8-HpCDD	97 B	(86 - 134)			SW846 8290
	96 B	(86 - 134)	0.48	(0-28)	SW846 8290
OCDD	97 B	(80 - 137)			SW846 8290
	96 B	(80 - 137)	1.4	(0-32)	SW846 8290
2,3,7,8-TCDF	94 CON	(79 - 137)			SW846 8290
	95	(79 - 137)	1.1	(0-30)	SW846 8290
1,2,3,7,8-PeCDF	95	(81 - 134)			SW846 8290
	93	(81 - 134)	1.5	(0-27)	SW846 8290
2,3,4,7,8-PeCDF	99	(76 - 132)			SW846 8290
	95	(76 - 132)	3.8	(0-31)	SW846 8290
1,2,3,4,7,8-HxCDF	93 B	(72 - 140)			SW846 8290
	95 B	(72 - 140)	2.3	(0-32)	SW846 8290
1,2,3,6,7,8-HxCDF	97 B	(63 - 152)			SW846 8290
	100 B	(63 - 152)	3.7	(0-38)	SW846 8290
2,3,4,6,7,8-HxCDF	96	(72 - 151)			SW846 8290
	97	(72 - 151)	1.5	(0-35)	SW846 8290
1,2,3,7,8,9-HxCDF	90	(72 - 152)			SW846 8290
	86	(72 - 152)	3.9	(0-36)	SW846 8290
1,2,3,4,6,7,8-HpCDF	94 B	(81 - 137)			SW846 8290
	100 B	(81 - 137)	5.3	(0-33)	SW846 8290
1,2,3,4,7,8,9-HpCDF	113 B	(79 - 139)			SW846 8290
	111 B	(79 - 139)	2.1	(0-35)	SW846 8290
OCDF	106 B	(75 - 141)			SW846 8290
	108 B	(75 - 141)	1.7	(0-45)	SW846 8290

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #...: G9L120491 Work Order #...: LQ2LE1AF-MS Matrix.....: SOLID
 MS Lot-Sample #: G9L120491-008 LQ2LE1AG-MSD

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2, 3, 7, 8-TCDD	48	(40 - 135)
	56	(40 - 135)
13C-1, 2, 3, 7, 8-PeCDD	46	(40 - 135)
	53	(40 - 135)
13C-1, 2, 3, 6, 7, 8-HxCDD	44	(40 - 135)
	61	(40 - 135)
13C-1, 2, 3, 4, 6, 7, 8-HpCDD	30 *	(40 - 135)
	38 *	(40 - 135)
13C-OCDD	20 *	(40 - 135)
	26 *	(40 - 135)
13C-2, 3, 7, 8-TCDF	47	(40 - 135)
	57	(40 - 135)
13C-1, 2, 3, 7, 8-PeCDF	44	(40 - 135)
	52	(40 - 135)
13C-1, 2, 3, 4, 7, 8-HxCDF	43	(40 - 135)
	53	(40 - 135)
13C-1, 2, 3, 4, 6, 7, 8-HpCDF	29 *	(40 - 135)
	37 *	(40 - 135)

NOTE (S) :

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

* Surrogate recovery is outside stated control limits.

CON Confirmation analysis.

MATRIX SPIKE SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #....: G9L120491 Work Order #....: LQ2LE1AF-MS Matrix.....: SOLID
 MS Lot-Sample #: G9L120491-008 LQ2LE1AG-MSD
 Date Sampled....: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/28/09 Analysis Date...: 01/04/10
 Prep Batch #....: 9362386
 Dilution Factor: 0.99 % Moisture.....: 5.9

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
2,3,7,8-TCDD	ND	21.2	19.4	pg/g	91		SW846 8290
	ND	21.2	19.7	pg/g	93	1.7	SW846 8290
1,2,3,7,8-PeCDD	ND	106	109	pg/g	102		SW846 8290
	ND	106	109	pg/g	103	0.48	SW846 8290
1,2,3,4,7,8-HxCDD	ND	106	112	pg/g	105		SW846 8290
	ND	106	96.0	pg/g	90	15	SW846 8290
1,2,3,6,7,8-HxCDD	0.35	106	108	pg/g	102		SW846 8290
	0.35	106	108	pg/g	102	0.02	SW846 8290
1,2,3,7,8,9-HxCDD	0.30	106	96.4	pg/g	90		SW846 8290
	0.30	106	86.7	pg/g	81	11	SW846 8290
1,2,3,4,6,7,8-HpCDD	0.79	106	104	pg/g	97 B		SW846 8290
	0.79	106	103	pg/g	96 B	0.48	SW846 8290
OCDD	2.5	212	209	pg/g	97 B		SW846 8290
	2.5	212	206	pg/g	96 B	1.4	SW846 8290
2,3,7,8-TCDF	1.7	21.2	21.8	pg/g	94 CON		SW846 8290
	1.7	21.2	22.0	pg/g	95	1.1	SW846 8290
1,2,3,7,8-PeCDF	2.1	106	103	pg/g	95		SW846 8290
	2.1	106	101	pg/g	93	1.5	SW846 8290
2,3,4,7,8-PeCDF	1.0	106	106	pg/g	99		SW846 8290
	1.0	106	102	pg/g	95	3.8	SW846 8290
1,2,3,4,7,8-HxCDF	3.5	106	102	pg/g	93 B		SW846 8290
	3.5	106	105	pg/g	95 B	2.3	SW846 8290
1,2,3,6,7,8-HxCDF	2.9	106	106	pg/g	97 B		SW846 8290
	2.9	106	110	pg/g	100 B	3.7	SW846 8290
2,3,4,6,7,8-HxCDF	0.86	106	103	pg/g	96		SW846 8290
	0.86	106	104	pg/g	97	1.5	SW846 8290
1,2,3,7,8,9-HxCDF	0.50	106	95.6	pg/g	90		SW846 8290
	0.50	106	92.0	pg/g	86	3.9	SW846 8290
1,2,3,4,6,7,8-HpCDF	11	106	111	pg/g	94 B		SW846 8290
	11	106	117	pg/g	100 B	5.3	SW846 8290
1,2,3,4,7,8,9-HpCDF	4.6	106	125	pg/g	113 B		SW846 8290
	4.6	106	122	pg/g	111 B	2.1	SW846 8290
OCDF	31	212	256	pg/g	106 B		SW846 8290
	31	212	261	pg/g	108 B	1.7	SW846 8290

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G9L120491 Work Order #...: LQ2LE1AF-MS Matrix.....: SOLID
MS Lot-Sample #: G9L120491-008 LQ2LE1AG-MSD

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	48	(40 - 135)
	56	(40 - 135)
13C-1,2,3,7,8-PeCDD	46	(40 - 135)
	53	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	44	(40 - 135)
	61	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	30 *	(40 - 135)
	38 *	(40 - 135)
13C-OCDD	20 *	(40 - 135)
	26 *	(40 - 135)
13C-2,3,7,8-TCDF	47	(40 - 135)
	57	(40 - 135)
13C-1,2,3,7,8-PeCDF	44	(40 - 135)
	52	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	43	(40 - 135)
	53	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	29 *	(40 - 135)
	37 *	(40 - 135)

NOTE (S) :

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

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

* Surrogate recovery is outside stated control limits.

CON Confirmation analysis.

ICV/CCV
Run Logs

Initial Calibration Checklist Dioxin Methods

ICAL ID (8290, 1613, T09, 23, 0023A, TETRAC) 1231091D5

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

Column ID DB5 Instrument ID 1D5

STD ID's ST1231(B,C,D,E,F) STD Solution 09DXN(422, 423, 425, 426, 456)

GC Program OCDD Multiplier Setting 270

Analyzed By A.M. Date Analyzed 12/31/09, 1/1/10 ^{NO} 1/4/10

Prepared By M.G. Date Prepared 1/4/10

Reviewed By JRB Date Reviewed 1/4/10

Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?*	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	✓	✓

COMMENTS:

CS2 Retention Times: 13C-1,2,3,4-TCDD 18:40
13C-1,2,3,7,8,9-HxCDD 32:49

*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: 158E098D2 Analyte: 8290 Cal: 82901231091D5

ST1231B :CS-1 09DXM422 ST1231C :CS-2 09DXM423 ST1231D :CS-3 09DXM425
 ST1231E :CS-4 09DXM426 ST1231F :CS-5 09DXM456

31DE09A1D531DE09A1D531DE09A1D531DE09A1D531DE09A1D531DE09A1D5

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

13C-2,3,7,8-TCDF	1.566	0.079	5.03 %	1.52	1.48	1.64	1.53	1.66
2,3,7,8-TCDF	0.860	0.090	10.4 %	0.77	0.77	0.87	0.91	0.98
Total TCDF	0.860	0.090	10.4 %	0.77	0.77	0.87	0.91	0.98

13C-2,3,7,8-TCDD	0.993	0.079	7.91 %	0.93	0.93	1.01	0.97	1.12
2,3,7,8-TCDD	0.934	0.120	12.9 %	0.86	0.77	0.95	1.01	1.07
Total TCDD	0.934	0.120	12.9 %	0.86	0.77	0.95	1.01	1.07

37C1-2,3,7,8-TCDD	2.218	0.347	15.7 %	2.02	1.82	2.18	2.33	2.74
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13C-1,2,3,7,8-PeCDF	1.073	0.114	10.6 %	1.00	0.98	1.09	1.03	1.26
1,2,3,7,8-PeCDF	1.000	0.119	11.9 %	0.85	0.90	1.04	1.10	1.11
2,3,4,7,8-PeCDF	0.939	0.122	13.0 %	0.79	0.84	0.97	1.05	1.05
Total F2 PeCDF	0.969	0.120	12.4 %	0.82	0.87	1.01	1.08	1.08
Total F1 PeCDF	0.969	0.120	12.4 %	0.82	0.87	1.01	1.08	1.08

13C-1,2,3,7,8-PeCDD	0.666	0.081	12.1 %	0.61	0.59	0.67	0.67	0.80
1,2,3,7,8-PeCDD	0.929	0.127	13.7 %	0.79	0.81	0.94	1.04	1.06
Total PeCDD	0.929	0.127	13.7 %	0.79	0.81	0.94	1.04	1.06

13C-1,2,3,7,8,9-HxCDD	-	-	-	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	0.893	0.084	9.37 %	0.98	0.88	0.90	0.76	0.94
1,2,3,4,7,8-HxCDF	1.199	0.171	14.2 %	0.96	1.08	1.31	1.33	1.32
1,2,3,6,7,8-HxCDF	1.371	0.160	11.7 %	1.12	1.30	1.48	1.51	1.45
2,3,4,6,7,8-HxCDF	1.242	0.152	12.3 %	1.02	1.15	1.32	1.36	1.36
1,2,3,7,8,9-HxCDF	1.326	0.218	16.4 %	1.02	1.19	1.44	1.57	1.42
Total HxCDF	1.285	0.174	13.5 %	1.03	1.18	1.39	1.44	1.38

13C-1,2,3,6,7,8-HxCDD	0.732	0.084	11.4 %	0.83	0.69	0.75	0.61	0.78
1,2,3,4,7,8-HxCDD	0.970	0.170	17.5 %	0.74	0.88	0.98	1.15	1.11

1,2,3,6,7,8-HxCDD	1.058	0.118	11.2	0.88	1.01	1.09	1.16	1.15
1,2,3,7,8,9-HxCDD	1.275	0.243	19.0	0.92	1.19	1.33	1.57	1.37
Total HxCDD	1.101	0.175	15.9	0.84	1.02	1.14	1.30	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.860	0.055	6.38	0.92	0.85	0.88	0.78	0.88
1,2,3,4,6,7,8-HpCDF	1.287	0.138	10.8	1.10	1.18	1.34	1.41	1.40
1,2,3,4,7,8,9-HpCDF	1.135	0.151	13.3	0.95	1.00	1.19	1.27	1.27
Total HpCDF	1.211	0.145	11.9	1.02	1.09	1.27	1.34	1.33
13C-1,2,3,4,6,7,8-HpCDD	0.752	0.046	6.08	0.80	0.74	0.75	0.68	0.79
1,2,3,4,6,7,8-HpCDD	0.998	0.122	12.2	0.85	0.88	1.05	1.10	1.10
Total HpCDD	0.998	0.122	12.2	0.85	0.88	1.05	1.10	1.10
13C-OCDD	0.564	0.039	6.86	0.58	0.54	0.57	0.51	0.61
OCDF	1.437	0.202	14.1	1.16	1.30	1.52	1.63	1.59
OCDD	1.110	0.128	11.5	0.96	0.98	1.16	1.23	1.22

Run #1 Filename 31DE09A1D5 S: 2 I: 1
 Acquired: 1-JAN-10 00:09:07 Processed: 4-JAN-10 07:30:47
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

Comments:

Sample text: ST1231B :CS-1 09DXN422

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	326815000	0.81 y	18:42	-	100.00	n
13C-2,3,7,8-TCDF	495192000	0.78 y	18:09	1.52	100.00	n
2,3,7,8-TCDF	1909491	0.78 y	18:09	0.77	0.50	n
Total TCDF	-	- n	-	0.77	0.50	n
13C-2,3,7,8-TCDD	305230000	0.80 y	18:53	0.93	100.00	n
2,3,7,8-TCDD	1317770	0.78 y	18:56	0.86	0.50	n
Total TCDD	-	- n	-	0.86	0.50	n
37Cl-2,3,7,8-TCDD	3295720	1.00 y	18:56	2.02	0.50	n
13C-1,2,3,7,8-PeCDF	327775000	1.60 y	23:32	1.00	100.00	n
1,2,3,7,8-PeCDF	6958190	1.59 y	23:34	0.85	2.50	n
2,3,4,7,8-PeCDF	6434690	1.62 y	24:58	0.79	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	198162800	1.64 y	25:44	0.61	100.00	n
1,2,3,7,8-PeCDD	3904960	1.46 y	25:45	0.79	2.50	n
Total PeCDD	-	- n	-	0.79	2.50	n
13C-1,2,3,7,8,9-HxCDD	246455000	1.30 y	32:51	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	242322300	0.50 y	31:26	0.98	100.00	n
1,2,3,4,7,8-HxCDF	5809990	1.20 y	31:27	0.96	2.50	n
1,2,3,6,7,8-HxCDF	6810920	1.31 y	31:36	1.12	2.50	n
2,3,4,6,7,8-HxCDF	6178250	1.26 y	32:17	1.02	2.50	n
1,2,3,7,8,9-HxCDF	6177790	1.28 y	33:03	1.02	2.50	n
Total HxCDF	-	- n	-	1.03	10.00	n
13C-1,2,3,6,7,8-HxCDD	204409500	1.28 y	32:32	0.83	100.00	n
1,2,3,4,7,8-HxCDD	3765050	1.19 y	32:27	0.74	2.50	n
1,2,3,6,7,8-HxCDD	4473360	1.33 y	32:33	0.88	2.50	n
1,2,3,7,8,9-HxCDD	4685460	1.26 y	32:52	0.92	2.50	n
Total HxCDD	-	- n	-	0.84	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	227457800	0.43 y	34:35	0.92	100.00	n
1,2,3,4,6,7,8-HpCDF	6254400	1.07 y	34:35	1.10	2.50	n
1,2,3,4,7,8,9-HpCDF	5396380	1.04 y	35:53	0.95	2.50	n
Total HpCDF	-	- n	-	1.02	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	196980400	1.10 y	35:31	0.80	100.00	n
1,2,3,4,6,7,8-HpCDD	4184800	0.97 y	35:31	0.85	2.50	n
Total HpCDD	-	- n	-	0.85	2.50	n
13C-OCDD	287999000	0.90 y	38:18	0.58	200.00	n
OCDF	8341240	0.89 y	38:25	1.16	5.00	n

OCDD 6946490 0.88 y 38:19 0.96 5.00 n

Run #2 Filename 31DE09A1D5 S: 3 I: 1
 Acquired: 1-JAN-10 00:50:55 Processed: 4-JAN-10 07:30:48
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

Comments:

Sample text: ST1231C :CS-2 09DXN423

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	338633000	0.80 y	18:40	-	100.00	n
13C-2,3,7,8-TCDF	501872000	0.80 y	18:07	1.48	100.00	n
2,3,7,8-TCDF	7721520	0.76 y	18:08	0.77	2.00	n
Total TCDF	-	- n	-	0.77	2.00	n
13C-2,3,7,8-TCDD	314535000	0.79 y	18:52	0.93	100.00	n
2,3,7,8-TCDD	4841990	0.72 y	18:53	0.77	2.00	n
Total TCDD	-	- n	-	0.77	2.00	n
37Cl-2,3,7,8-TCDD	12349320	1.00 y	18:53	1.82	2.00	n
13C-1,2,3,7,8-PeCDF	332660000	1.64 y	23:31	0.98	100.00	n
1,2,3,7,8-PeCDF	29926900	1.66 y	23:32	0.90	10.00	n
2,3,4,7,8-PeCDF	27858600	1.64 y	24:57	0.84	10.00	n
Total F2 PeCDF	-	- n	-	0.87	20.00	n
Total F1 PeCDF	-	- n	-	0.87	20.00	n
13C-1,2,3,7,8-PeCDD	200944100	1.64 y	25:42	0.59	100.00	n
1,2,3,7,8-PeCDD	16258920	1.63 y	25:44	0.81	10.00	n
Total PeCDD	-	- n	-	0.81	10.00	n
13C-1,2,3,7,8,9-HxCDD	271672000	1.29 y	32:50	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	238064400	0.51 y	31:25	0.88	100.00	n
1,2,3,4,7,8-HxCDF	25643500	1.28 y	31:26	1.08	10.00	n
1,2,3,6,7,8-HxCDF	30902300	1.30 y	31:35	1.30	10.00	n
2,3,4,6,7,8-HxCDF	27314900	1.31 y	32:16	1.15	10.00	n
1,2,3,7,8,9-HxCDF	28395900	1.26 y	33:02	1.19	10.00	n
Total HxCDF	-	- n	-	1.18	40.00	n
13C-1,2,3,6,7,8-HxCDD	187073300	1.31 y	32:31	0.69	100.00	n
1,2,3,4,7,8-HxCDD	16376990	1.27 y	32:26	0.88	10.00	y
1,2,3,6,7,8-HxCDD	18917800	1.35 y	32:32	1.01	10.00	y
1,2,3,7,8,9-HxCDD	22185210	1.30 y	32:51	1.19	10.00	n
Total HxCDD	-	- n	-	1.02	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	229668600	0.43 y	34:34	0.85	100.00	n
1,2,3,4,6,7,8-HpCDF	27134500	1.01 y	34:35	1.18	10.00	n
1,2,3,4,7,8,9-HpCDF	22973600	1.06 y	35:53	1.00	10.00	n
Total HpCDF	-	- n	-	1.09	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	200876100	1.09 y	35:30	0.74	100.00	n
1,2,3,4,6,7,8-HpCDD	17730590	1.07 y	35:31	0.88	10.00	n
Total HpCDD	-	- n	-	0.88	10.00	n
13C-OCDD	295682000	0.89 y	38:18	0.54	200.00	n
OCDF	38310100	0.87 y	38:25	1.30	20.00	n

OCDD 28999100 0.89 y 38:19 0.98 20.00 n

0.00

0.00
0.00
0.00

Run #2 Filename 31DE09A1D5 S: 3 I: 1
 Acquired: 1-JAN-10 00:50:55 Processed: 4-JAN-10 07:30:48
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

Comments:

Sample text: ST1231C :CS-2 09DXN423

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	338633000	0.80 y	18:40	-	100.00	n
13C-2,3,7,8-TCDF	501872000	0.80 y	18:07	1.48	100.00	n
2,3,7,8-TCDF	7721520	0.76 y	18:08	0.77	2.00	n
Total TCDF	-	- n	-	0.77	2.00	n
13C-2,3,7,8-TCDD	314535000	0.79 y	18:52	0.93	100.00	n
2,3,7,8-TCDD	4841990	0.72 y	18:53	0.77	2.00	n
Total TCDD	-	- n	-	0.77	2.00	n
37Cl-2,3,7,8-TCDD	12349320	1.00 y	18:53	1.82	2.00	n
13C-1,2,3,7,8-PeCDF	332660000	1.64 y	23:31	0.98	100.00	n
1,2,3,7,8-PeCDF	29926900	1.66 y	23:32	0.90	10.00	n
2,3,4,7,8-PeCDF	27858600	1.64 y	24:57	0.84	10.00	n
Total F2 PeCDF	-	- n	-	0.87	20.00	n
Total F1 PeCDF	-	- n	-	0.87	20.00	n
13C-1,2,3,7,8-PeCDD	200944100	1.64 y	25:42	0.59	100.00	n
1,2,3,7,8-PeCDD	16258920	1.63 y	25:44	0.81	10.00	n
Total PeCDD	-	- n	-	0.81	10.00	n
13C-1,2,3,7,8,9-HxCDD	271672000	1.29 y	32:50	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	238064400	0.51 y	31:25	0.88	100.00	n
1,2,3,4,7,8-HxCDF	25643500	1.28 y	31:26	1.08	10.00	n
1,2,3,6,7,8-HxCDF	30902300	1.30 y	31:35	1.30	10.00	n
2,3,4,6,7,8-HxCDF	27314900	1.31 y	32:16	1.15	10.00	n
1,2,3,7,8,9-HxCDF	28395900	1.26 y	33:02	1.19	10.00	n
Total HxCDF	-	- n	-	1.18	40.00	n
13C-1,2,3,6,7,8-HxCDD	187073300	1.31 y	32:31	0.69	100.00	n
1,2,3,4,7,8-HxCDD	14931616	1.45 n	32:26	0.80	10.00	n
1,2,3,6,7,8-HxCDD	18826110	1.21 y	32:32	1.01	10.00	n
1,2,3,7,8,9-HxCDD	22185220	1.30 y	32:51	1.19	10.00	n
Total HxCDD	-	- n	-	1.00	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	229668600	0.43 y	34:34	0.85	100.00	n
1,2,3,4,6,7,8-HpCDF	27134500	1.01 y	34:35	1.18	10.00	n
1,2,3,4,7,8,9-HpCDF	22973600	1.06 y	35:53	1.00	10.00	n
Total HpCDF	-	- n	-	1.09	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	200876100	1.09 y	35:30	0.74	100.00	n
1,2,3,4,6,7,8-HpCDD	17730590	1.07 y	35:31	0.88	10.00	n
Total HpCDD	-	- n	-	0.88	10.00	n
13C-OCDD	295682000	0.89 y	38:18	0.54	200.00	n
OCDF	38310100	0.87 y	38:25	1.30	20.00	n
OCDD	28999100	0.89 y	38:19	0.98	20.00	n

Run #3 Filename 31DE09A1D5 S: 4 I: 1
 Acquired: 1-JAN-10 01:32:44 Processed: 4-JAN-10 07:30:49
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

Comments:

Sample text: ST1231D :CS-3 09DXN425

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	307910000	0.80 y	18:40	-	100.00	n
13C-2,3,7,8-TCDF	506106000	0.79 y	18:06	1.64	100.00	n
2,3,7,8-TCDF	44200100	0.76 y	18:07	0.87	10.00	n
Total TCDF	-	- n	-	0.87	10.00	n
13C-2,3,7,8-TCDD	310374000	0.80 y	18:52	1.01	100.00	n
2,3,7,8-TCDD	29546200	0.79 y	18:53	0.95	10.00	n
Total TCDD	-	- n	-	0.95	10.00	n
37Cl-2,3,7,8-TCDD	67170000	1.00 y	18:53	2.18	10.00	n
13C-1,2,3,7,8-PeCDF	335656000	1.65 y	23:30	1.09	100.00	n
1,2,3,7,8-PeCDF	174948900	1.63 y	23:32	1.04	50.00	n
2,3,4,7,8-PeCDF	162654400	1.64 y	24:57	0.97	50.00	n
Total F2 PeCDF	-	- n	-	1.01	100.00	n
Total F1 PeCDF	-	- n	-	1.01	100.00	n
13C-1,2,3,7,8-PeCDD	205985000	1.67 y	25:42	0.67	100.00	n
1,2,3,7,8-PeCDD	97299200	1.65 y	25:43	0.94	50.00	n
Total PeCDD	-	- n	-	0.94	50.00	n
13C-1,2,3,7,8,9-HxCDD	264028000	1.28 y	32:49	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	237779900	0.51 y	31:25	0.90	100.00	n
1,2,3,4,7,8-HxCDF	155946700	1.25 y	31:26	1.31	50.00	n
1,2,3,6,7,8-HxCDF	175881700	1.25 y	31:35	1.48	50.00	n
2,3,4,6,7,8-HxCDF	157470900	1.29 y	32:16	1.32	50.00	n
1,2,3,7,8,9-HxCDF	170784100	1.26 y	33:02	1.44	50.00	n
Total HxCDF	-	- n	-	1.39	200.00	n
13C-1,2,3,6,7,8-HxCDD	199181900	1.29 y	32:31	0.75	100.00	n
1,2,3,4,7,8-HxCDD	97513000	1.26 y	32:26	0.98	50.00	n
1,2,3,6,7,8-HxCDD	109018400	1.29 y	32:32	1.09	50.00	n
1,2,3,7,8,9-HxCDD	132727200	1.29 y	32:50	1.33	50.00	n
Total HxCDD	-	- n	-	1.14	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	232544000	0.43 y	34:34	0.88	100.00	n
1,2,3,4,6,7,8-HpCDF	156361300	1.03 y	34:35	1.34	50.00	n
1,2,3,4,7,8,9-HpCDF	138612200	1.05 y	35:52	1.19	50.00	n
Total HpCDF	-	- n	-	1.27	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	199167200	1.09 y	35:30	0.75	100.00	n
1,2,3,4,6,7,8-HpCDD	105004000	1.05 y	35:31	1.05	50.00	n
Total HpCDD	-	- n	-	1.05	50.00	n
13C-OCDD	301292000	0.91 y	38:17	0.57	200.00	n
OCDF	228515000	0.90 y	38:25	1.52	100.00	n
OCDD	174447000	0.89 y	38:18	1.16	100.00	n

Run #4 Filename 31DE09A1D5 S: 5 I: 1
 Acquired: 1-JAN-10 02:14:32 Processed: 4-JAN-10 07:30:49
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

Comments:

Sample text: ST1231E :CS-4 09DXN426

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	360177000	0.81 y	18:40	-	100.00	n
13C-2,3,7,8-TCDF	552269000	0.80 y	18:06	1.53	100.00	n
2,3,7,8-TCDF	200867500	0.77 y	18:07	0.91	40.00	n
Total TCDF	-	- n	-	0.91	40.00	n
13C-2,3,7,8-TCDD	350941000	0.80 y	18:52	0.97	100.00	n
2,3,7,8-TCDD	141705800	0.77 y	18:53	1.01	40.00	n
Total TCDD	-	- n	-	1.01	40.00	n
37Cl-2,3,7,8-TCDD	335352000	1.00 y	18:53	2.33	40.00	n
13C-1,2,3,7,8-PeCDF	369215000	1.63 y	23:31	1.03	100.00	n
1,2,3,7,8-PeCDF	814732000	1.58 y	23:32	1.10	200.00	n
2,3,4,7,8-PeCDF	775079000	1.57 y	24:57	1.05	200.00	n
Total F2 PeCDF	-	- n	-	1.08	400.00	n
Total F1 PeCDF	-	- n	-	1.08	400.00	n
13C-1,2,3,7,8-PeCDD	239834200	1.64 y	25:42	0.67	100.00	n
1,2,3,7,8-PeCDD	500625000	1.60 y	25:44	1.04	200.00	n
Total PeCDD	-	- n	25:44	1.04	200.00	n
13C-1,2,3,7,8,9-HxCDD	359009000	1.24 y	32:50	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	273599700	0.51 y	31:25	0.76	100.00	n
1,2,3,4,7,8-HxCDF	727822000	1.26 y	31:26	1.33	200.00	n
1,2,3,6,7,8-HxCDF	824043000	1.27 y	31:35	1.51	200.00	n
2,3,4,6,7,8-HxCDF	744600000	1.26 y	32:16	1.36	200.00	n
1,2,3,7,8,9-HxCDF	857140000	1.26 y	33:02	1.57	200.00	n
Total HxCDF	-	- n	-	1.44	800.00	n
13C-1,2,3,6,7,8-HxCDD	219899700	1.29 y	32:31	0.61	100.00	n
1,2,3,4,7,8-HxCDD	507310000	1.25 y	32:27	1.15	200.00	n
1,2,3,6,7,8-HxCDD	512249000	1.28 y	32:32	1.16	200.00	n
1,2,3,7,8,9-HxCDD	690425000	1.27 y	32:51	1.57	200.00	n
Total HxCDD	-	- n	-	1.30	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	278355600	0.44 y	34:34	0.78	100.00	n
1,2,3,4,6,7,8-HpCDF	784068000	1.04 y	34:35	1.41	200.00	n
1,2,3,4,7,8,9-HpCDF	705553000	1.04 y	35:53	1.27	200.00	n
Total HpCDF	-	- n	-	1.34	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	244993000	1.09 y	35:31	0.68	100.00	n
1,2,3,4,6,7,8-HpCDD	539498000	1.05 y	35:31	1.10	200.00	n
Total HpCDD	-	- n	-	1.10	200.00	n
13C-OCDD	366780000	0.90 y	38:18	0.51	200.00	n
OCDF	1195334000	0.91 y	38:25	1.63	400.00	n
OCDD	901352000	0.90 y	38:18	1.23	400.00	n

Run #5 Filename 31DE09A1D5 S: 6 I: 1
 Acquired: 1-JAN-10 02:56:20 Processed: 4-JAN-10 07:30:50
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

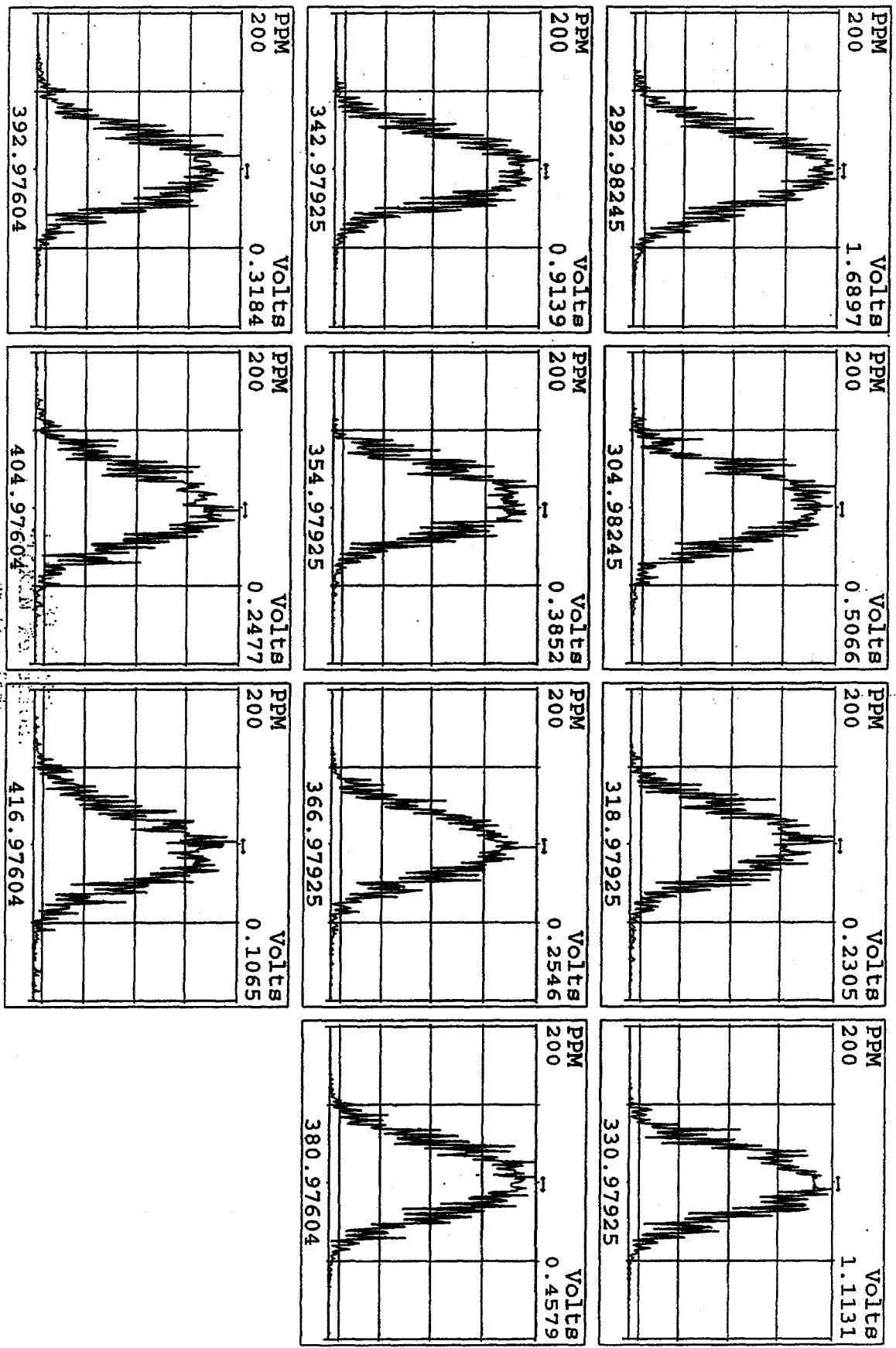
Comments:

Sample text: ST1231F :CS-5 09DXN456

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	223948500	0.79 y	18:39	-	100.00	n
13C-2,3,7,8-TCDF	370833000	0.77 y	18:05	1.66	100.00	n
2,3,7,8-TCDF	724048000	0.76 y	18:06	0.98	200.00	n
Total TCDF	-	- n	-	0.98	200.00	n
13C-2,3,7,8-TCDD	251145000	0.80 y	18:51	1.12	100.00	n
2,3,7,8-TCDD	539625000	0.78 y	18:52	1.07	200.00	n
Total TCDD	-	- n	-	1.07	200.00	n
37Cl-2,3,7,8-TCDD	1227666000	1.00 y	18:52	2.74	200.00	n
13C-1,2,3,7,8-PeCDF	283018000	1.63 y	23:30	1.26	100.00	n
1,2,3,7,8-PeCDF	3129820000	1.57 y	23:32	1.11	1000.00	n
2,3,4,7,8-PeCDF	2975790000	1.57 y	24:57	1.05	1000.00	n
Total F2 PeCDF	-	- n	-	1.08	2000.00	n
Total F1 PeCDF	-	- n	-	1.08	2000.00	n
13C-1,2,3,7,8-PeCDD	178526400	1.62 y	25:42	0.80	100.00	n
1,2,3,7,8-PeCDD	1892442000	1.58 y	25:44	1.06	1000.00	n
Total PeCDD	-	- n	-	1.06	1000.00	n
13C-1,2,3,7,8,9-HxCDD	230276000	1.29 y	32:50	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	216892500	0.51 y	31:25	0.94	100.00	n
1,2,3,4,7,8-HxCDF	2857220000	1.24 y	31:27	1.32	1000.00	n
1,2,3,6,7,8-HxCDF	3141570000	1.26 y	31:35	1.45	1000.00	n
2,3,4,6,7,8-HxCDF	2944900000	1.25 y	32:16	1.36	1000.00	n
1,2,3,7,8,9-HxCDF	3069220000	1.26 y	33:03	1.42	1000.00	n
Total HxCDF	-	- n	-	1.38	4000.00	n
13C-1,2,3,6,7,8-HxCDD	178583200	1.27 y	32:31	0.78	100.00	n
1,2,3,4,7,8-HxCDD	1973363000	1.25 y	32:27	1.11	1000.00	n
1,2,3,6,7,8-HxCDD	2046135000	1.28 y	32:32	1.15	1000.00	n
1,2,3,7,8,9-HxCDD	2448250000	1.27 y	32:51	1.37	1000.00	n
Total HxCDD	-	- n	-	1.21	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	201777500	0.44 y	34:34	0.88	100.00	n
1,2,3,4,6,7,8-HpCDF	2821880000	1.05 y	34:35	1.40	1000.00	n
1,2,3,4,7,8,9-HpCDF	2558690000	1.04 y	35:53	1.27	1000.00	n
Total HpCDF	-	- n	-	1.33	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	180867800	1.08 y	35:31	0.79	100.00	n
1,2,3,4,6,7,8-HpCDD	1991700000	1.05 y	35:32	1.10	1000.00	n
Total HpCDD	-	- n	-	1.10	1000.00	n
13C-OCDD	281979000	0.89 y	38:19	0.61	200.00	n
OCDF	4472470000	0.91 y	38:26	1.59	2000.00	n
OCDD	3427190000	0.90 y	38:20	1.22	2000.00	n

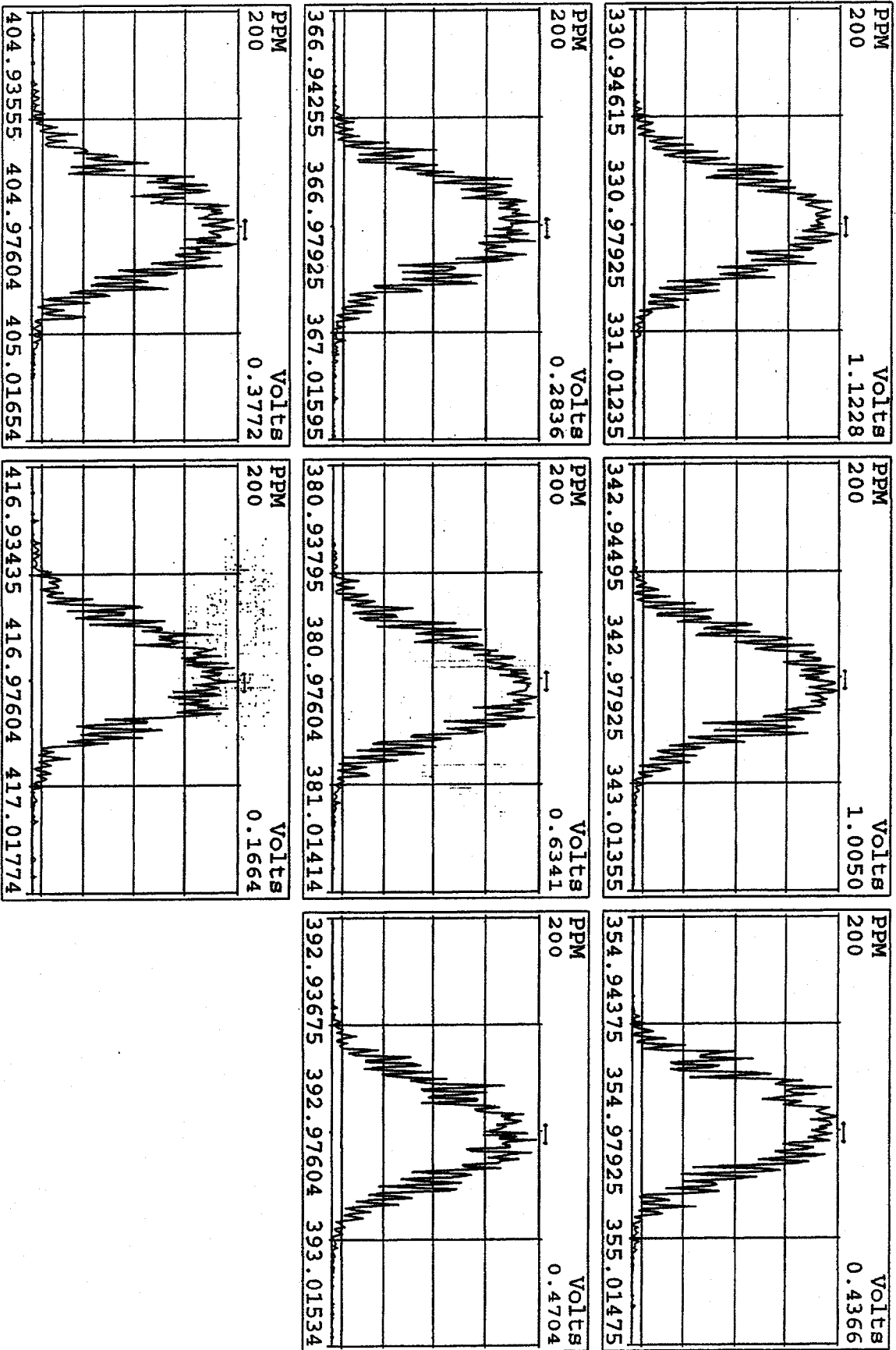
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31DE09A1D5	2	ST1231B		CS-1 09DXN422		1.000	
31DE09A1D5	3	ST1231C		CS-2 09DXN423		1.000	
31DE09A1D5	4	ST1231D		CS-3 09DXN425		1.000	
31DE09A1D5	5	ST1231E		CS-4 09DXN426		1.000	
31DE09A1D5	6	ST1231F		CS-5 09DXN456		1.000	
31DE09A1D5	7	SB1231C		Solvent Blank C-14		1.000	
31DE09A1D5	8	ST1231G		2nd Source 09DXN449		1.000	
31DE09A1D5	9		500	1613B/8290		1.000	
31DE09A1D5	10					1.000	
31DE09A1D5	11					1.000	
31DE09A1D5	12					1.000	
31DE09A1D5	13					1.000	
31DE09A1D5	14					1.000	
31DE09A1D5	15	AM 12-31-09				1.000	
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Peak Locate Examination:31-DEC-2009:23:19 File:31DE09A1D5
 Experiment:DIOXIN Function:1 Reference:PK

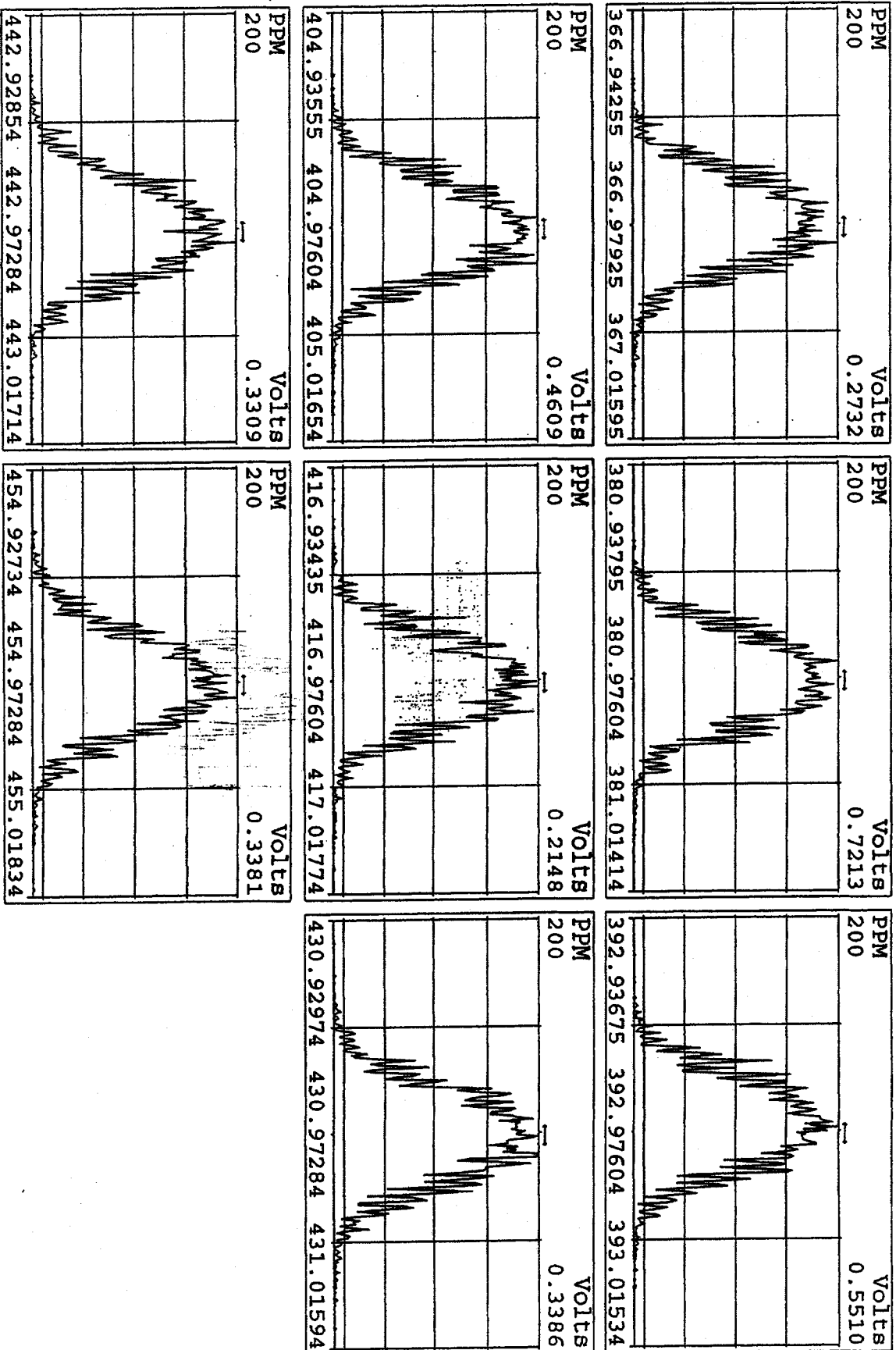


Volts PPM
 0.5066 200

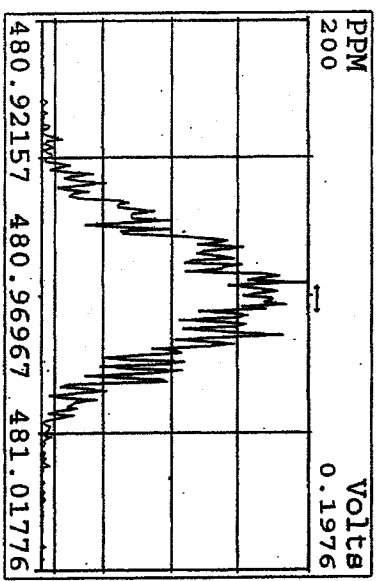
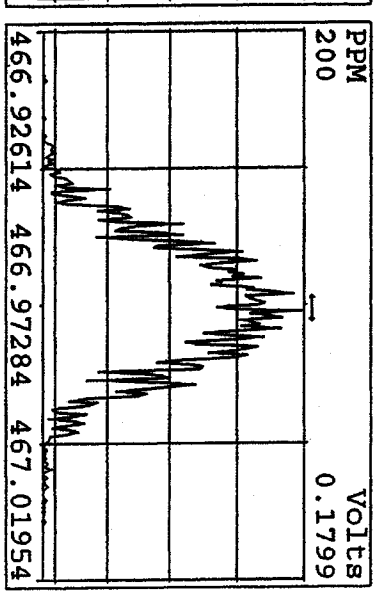
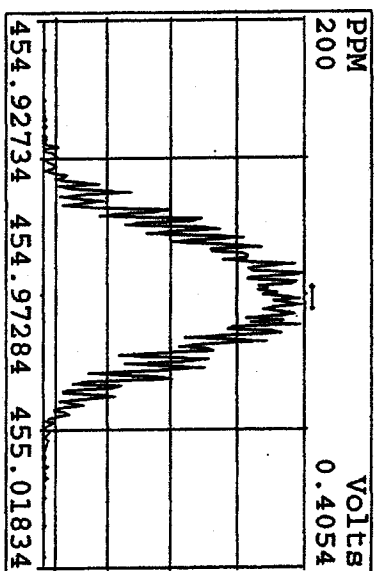
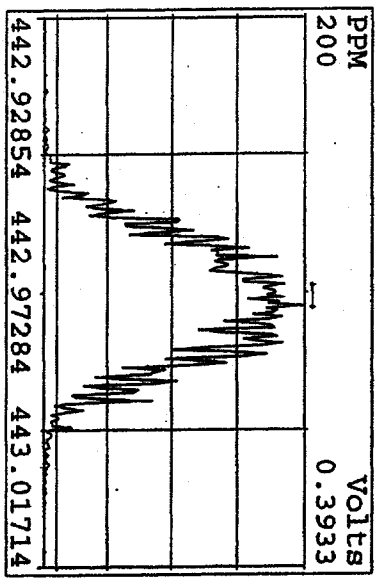
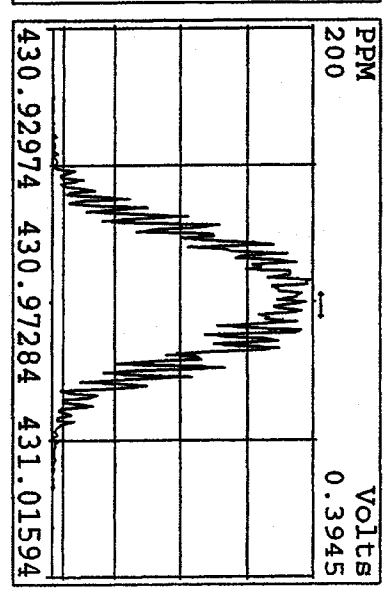
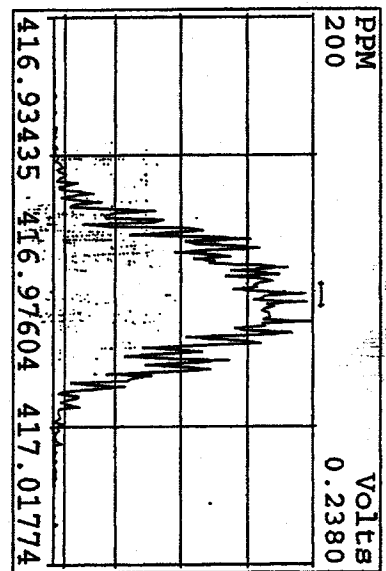
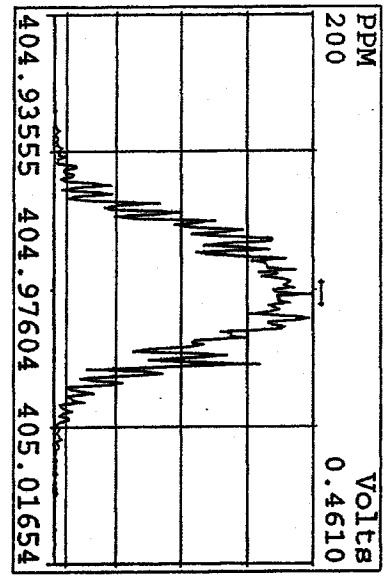
Peak Locate Examination:31-DEC-2009:23:20 File:31DE09A1D5
 Experiment:DIOXIN Function:2 Reference:PFK



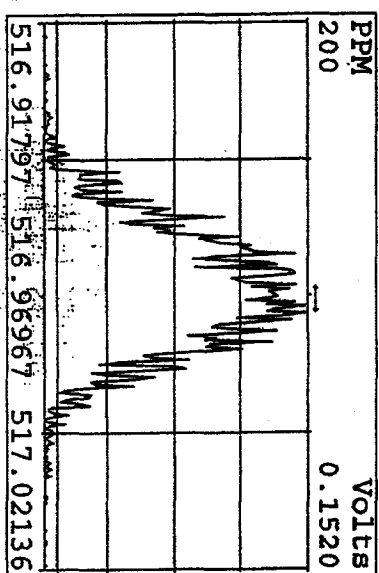
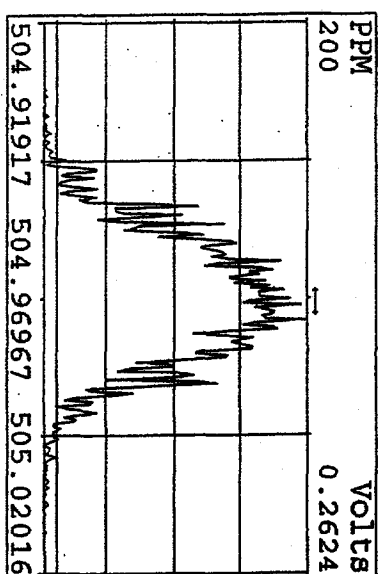
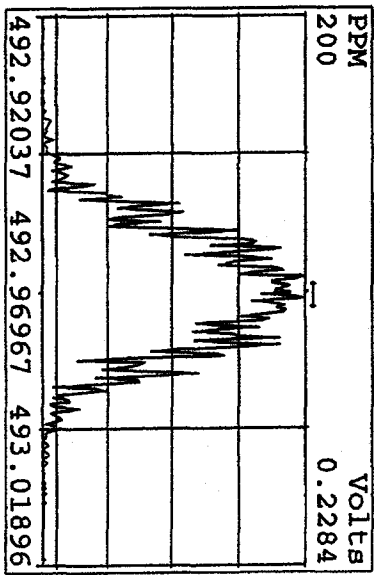
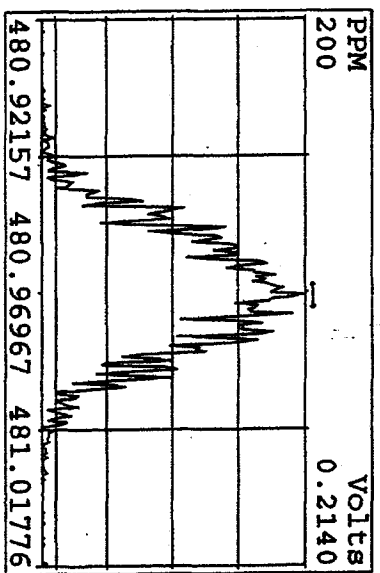
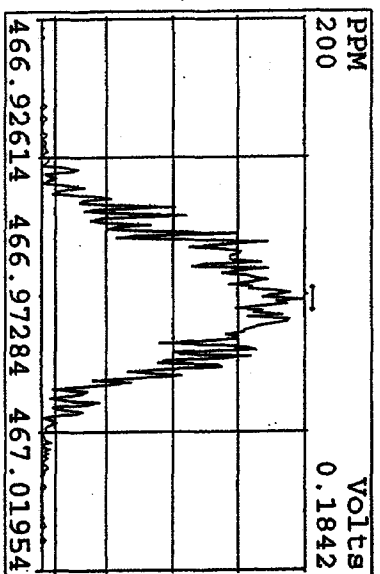
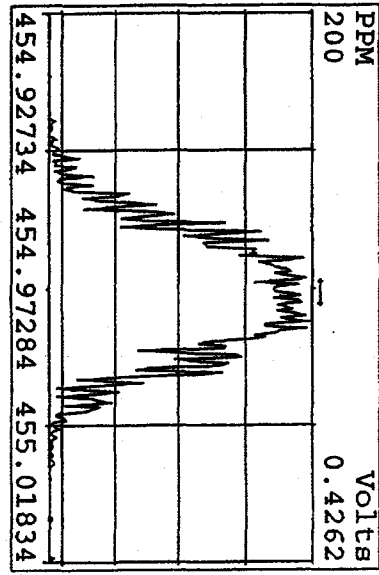
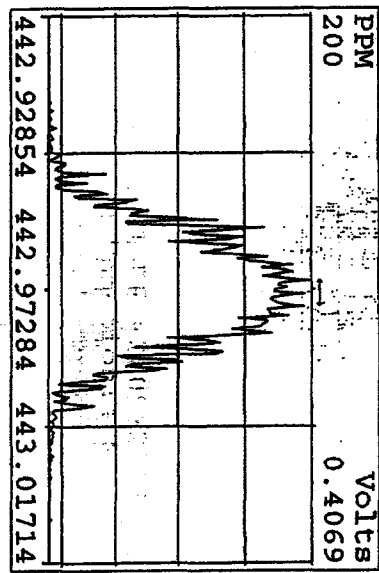
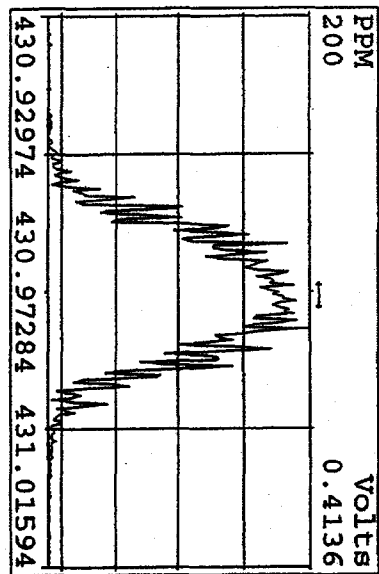
Peak Locate Examination:31-DEC-2009:23:21 File:31DFE09A1D5
 Experiment:DIOXIN Function:3 Reference:PFK



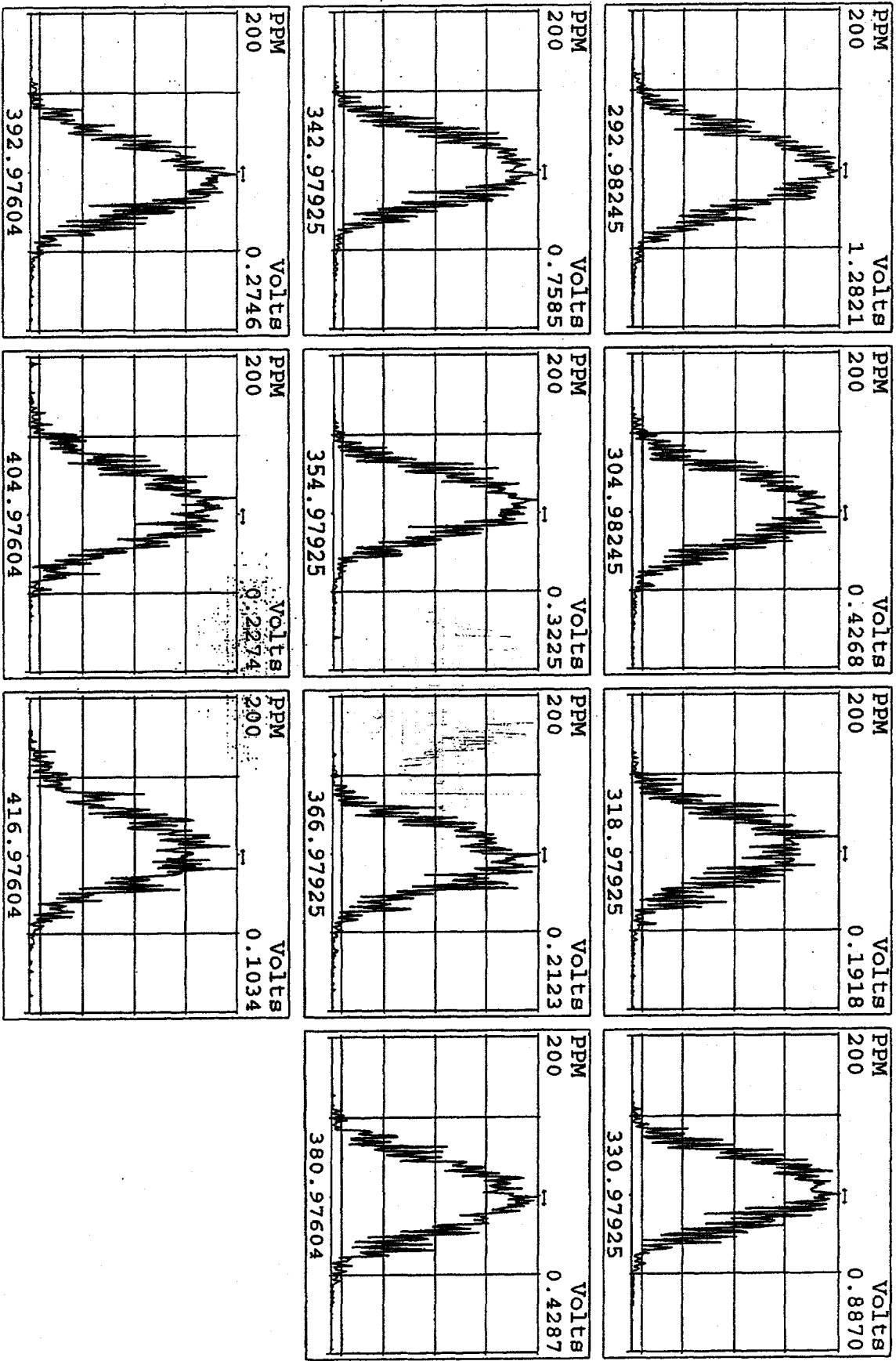
Peak Locate Examination:31-DEC-2009:23:22 File:31DE09A1D5
 Experiment:DIOXIN Function:4 Reference:PFK



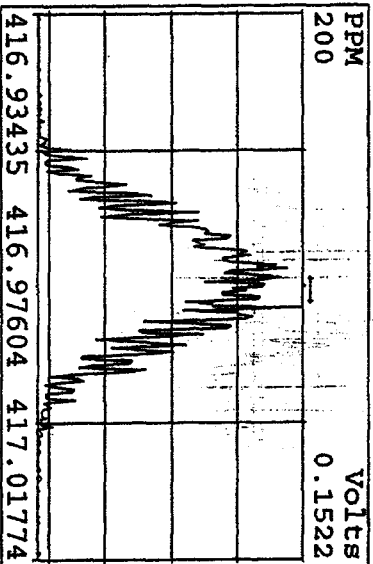
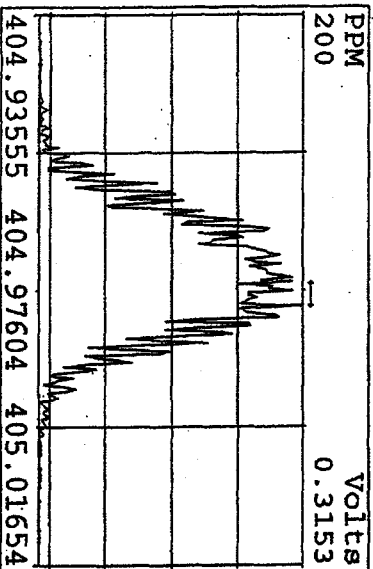
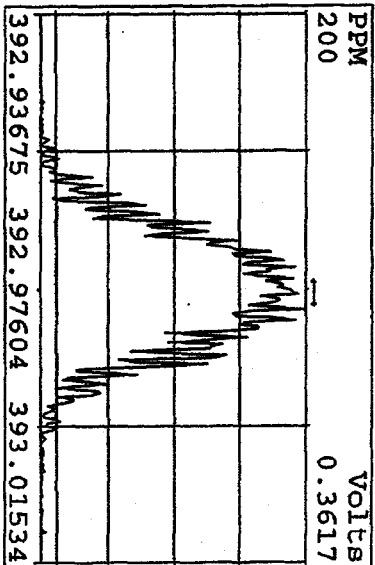
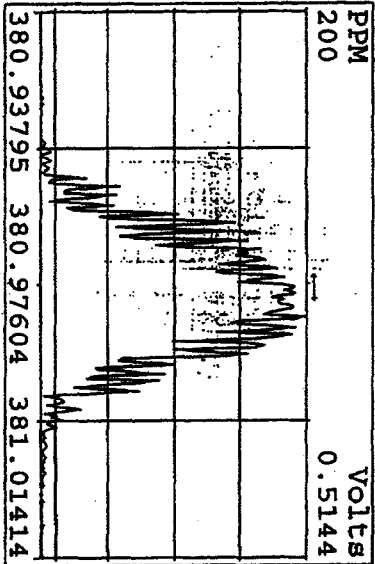
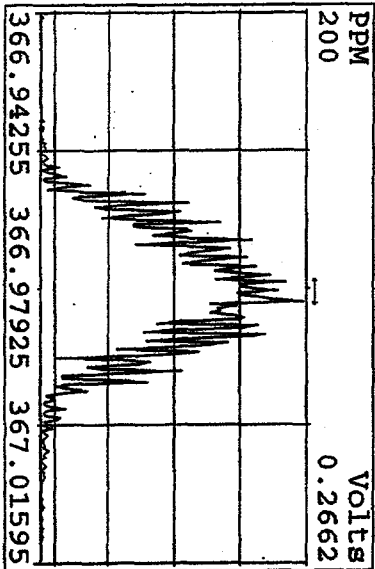
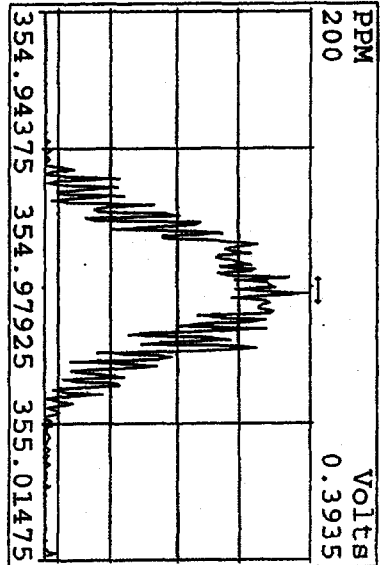
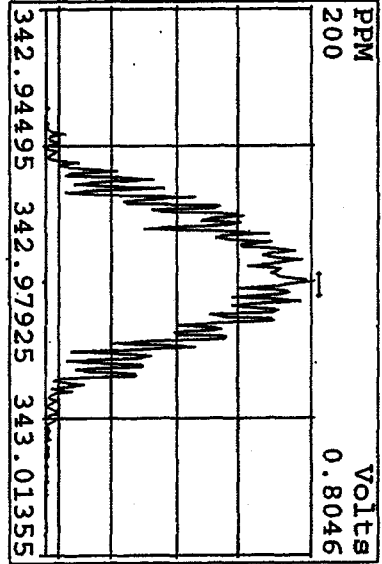
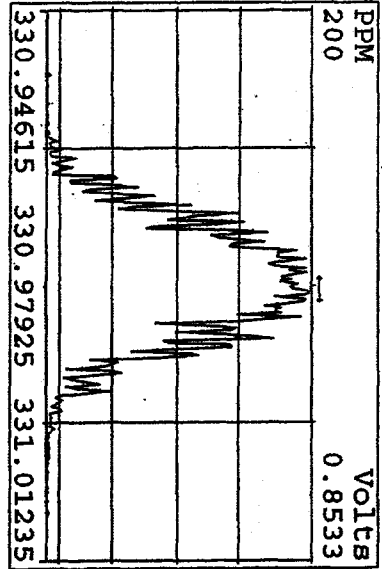
Peak Locate Examination: 41 DEC-2009:23:24 File:31DE09A1D5
 Experiment: DIOXIN Function: 5 Reference: PFK



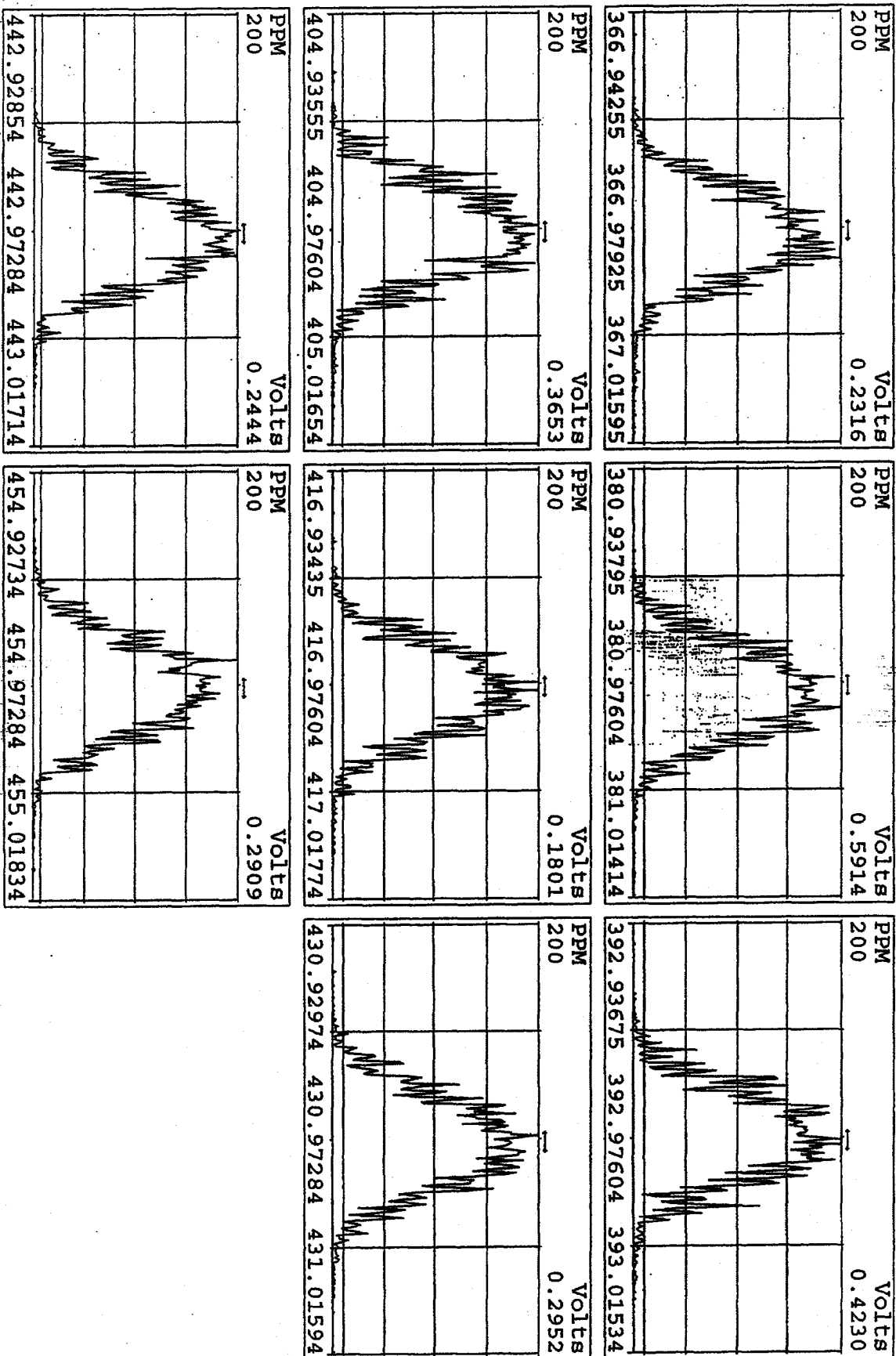
Peak Locate Examination: 1-JAN-2010:07:36 File:RESCHECK1D5
Experiment:DIOXIN Function:1 Reference:PK



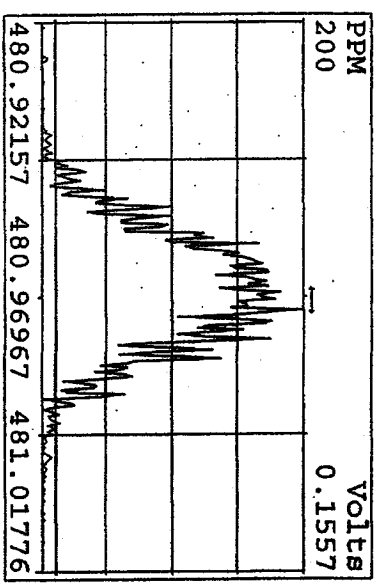
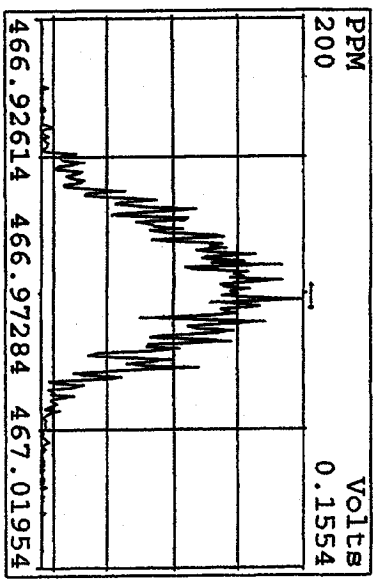
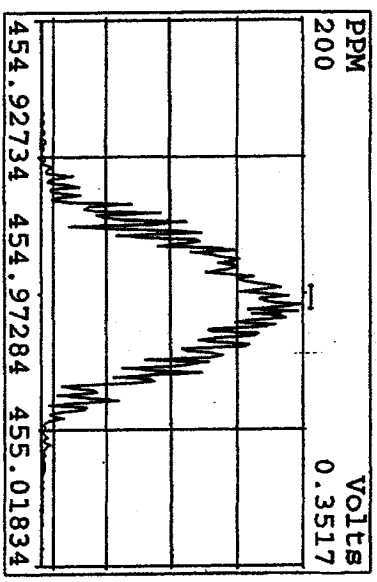
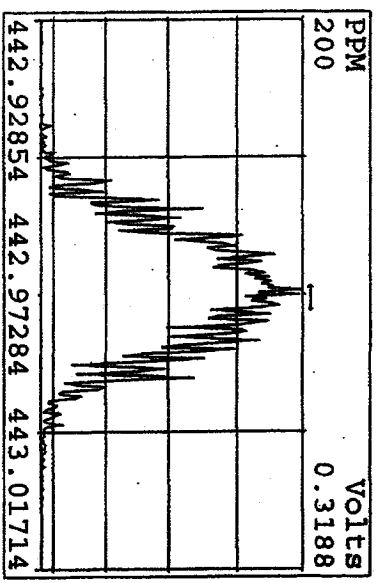
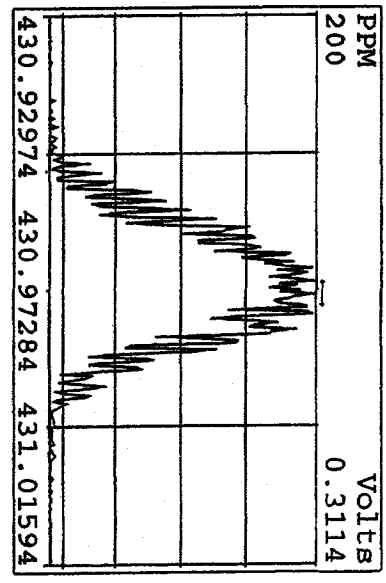
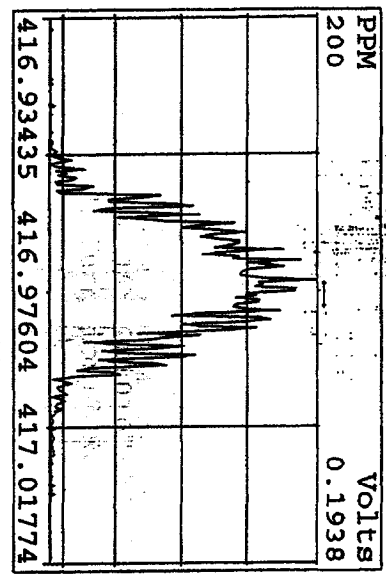
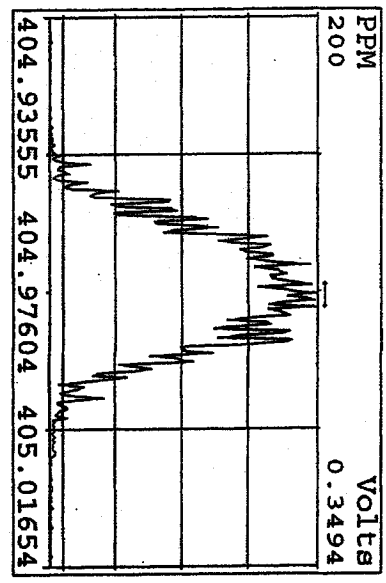
Peak Locate Examination: 1-JAN-2010:07:37 File:RESCHECK1D5
 Experiment:DIOXIN Function:2 Reference:PFK



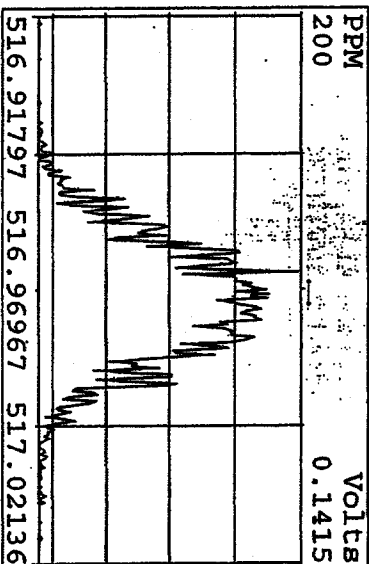
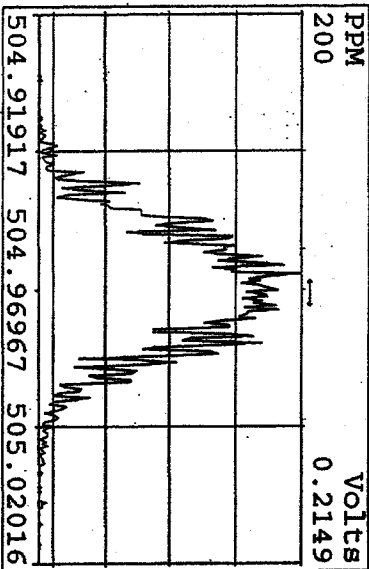
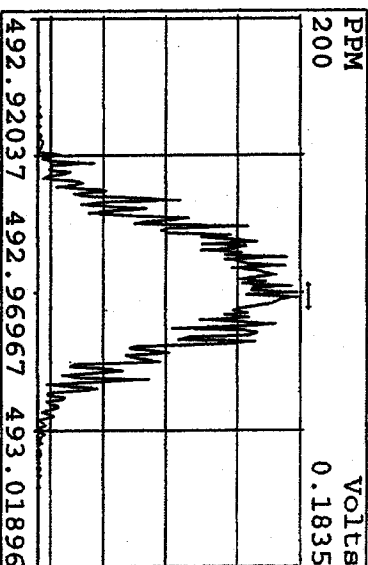
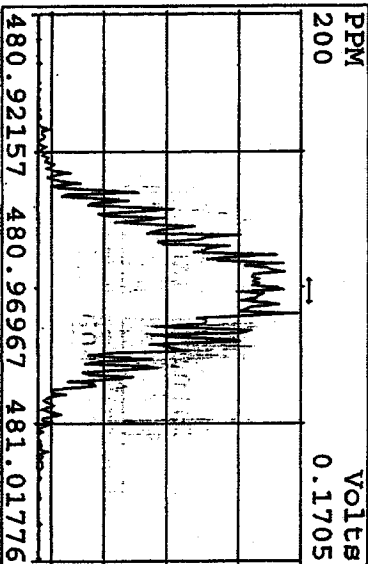
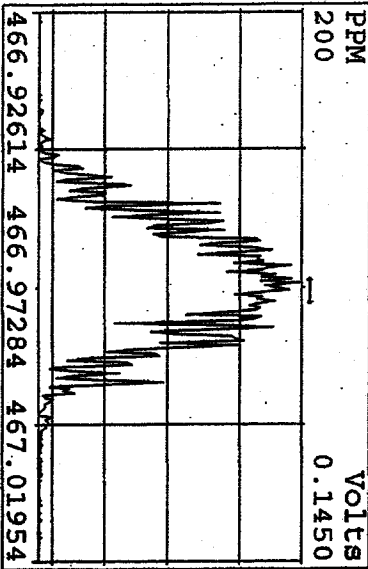
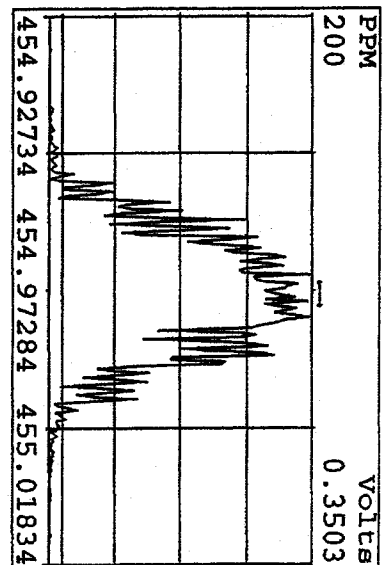
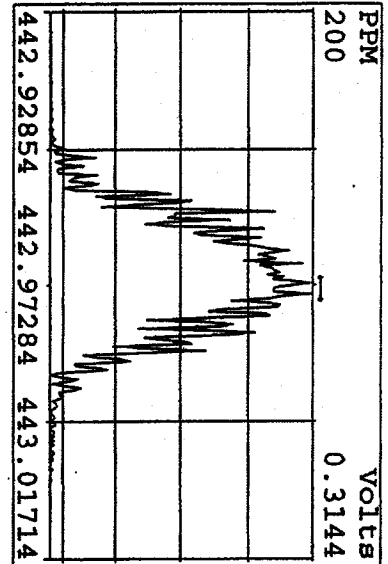
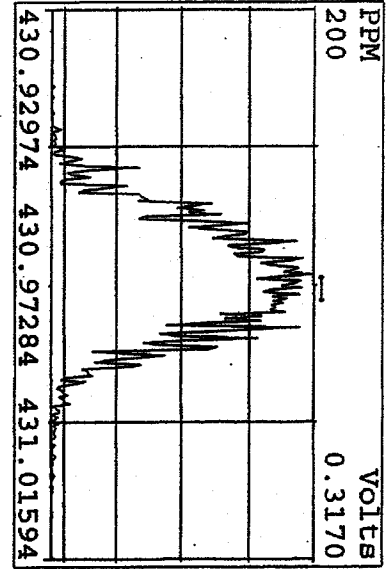
Peak Locate Examination: 1-JAN-2010:07:38 File:RSCHECK1D5
 Experiment:DIOXIN Function:3 Reference:PK



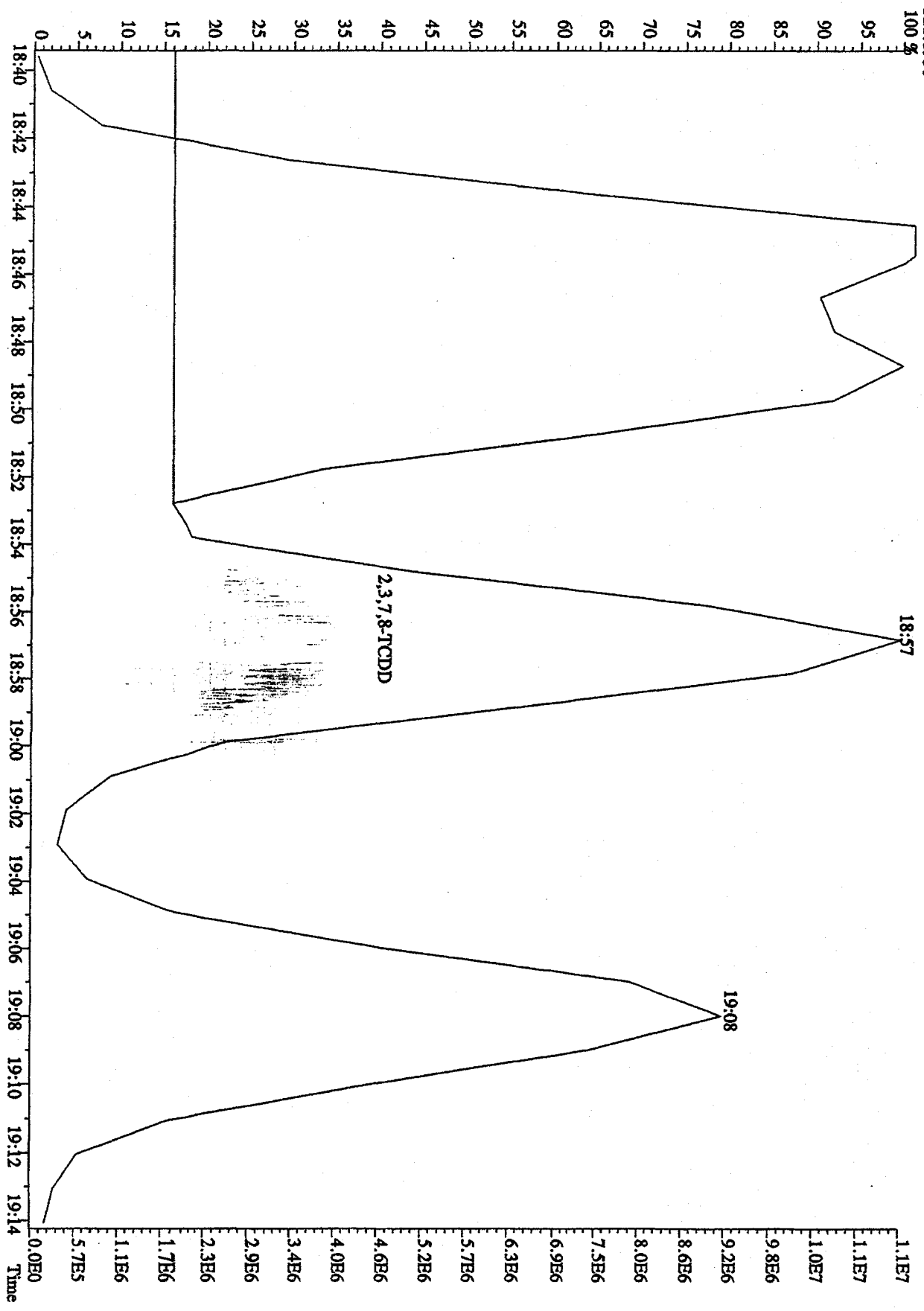
Peak Locate Examination: 11 JAN-2010: 07:39 File: RESCHECKIDS
 Experiment: DIOXIN Function: 4 Reference: PFK



Peak Locate Examination: 1-JAN-2010:07:40 File:RSCHECK1.DS
 Experiment:DIOXIN Function:5 Reference:PRK



File:31DE09A1D5 #1-410 Acq:31-DEC-2009 23:25:43 GC EI + Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPM 3732-04 Exp:DIOXIN



Run text: ST1231G Sample text: ST1231G :2nd Source 09DXN449
 Run #6 Filename: 31DE09A1D5 S: 8 I: 1 Results: 31DE09A1D51613
 Acquired: 1-JAN-10 04:19:56 Processed: 4-JAN-10 08:47:22
 Run: 31DE09A1D5 Analyte: 1613 Cal: 16131231091D5
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	233268000	0.81 y	18:42	-	74.89	-	3.7	n
13C-2,3,7,8-TCDF	353417000	0.79 y	18:09	1.57	1934.92	1.89	96.7	n
2,3,7,8-TCDF	29473900	0.75 y	18:10	0.86	193.98	1.19	-	n
Total TCDF	29878342	0.71 y	17:44	0.86	196.64	1.19	-	n
13C-2,3,7,8-TCDD	237599000	0.79 y	18:54	0.99	2050.84	3.63	102.5	n
2,3,7,8-TCDD	20517060	0.77 y	18:55	0.93	184.95	1.19	-	n
Total TCDD	20584547	4.35 n	18:08	0.93	185.56	1.19	-	n
37C1-2,3,7,8-TCDD	54584600	1.00 y	18:55	2.22	210.99	0.58	105.5	n
13C-1,2,3,7,8-PeCDF	258286200	1.61 y	23:34	1.07	2064.12	1.55	103.2	n
1,2,3,7,8-PeCDF	61444300	1.63 y	23:35	1.00	475.75	1.74	-	n
13C-2,3,4,7,8-PeCDF	243753700	1.62 y	24:59	1.03	2025.63	1.61	101.3	n
2,3,4,7,8-PeCDF	55918300	1.65 y	25:01	0.98	469.60	2.00	-	n
Total F2 PeCDF	119226673	0.82 n	22:06	0.99	960.37	1.86	-	n
Total F1 PeCDF	218994	0.56 n	16:04	0.99	1.76	1.60	-	n
13C-1,2,3,7,8-PeCDD	156506400	1.64 y	25:46	0.67	2013.73	1.54	100.7	n
1,2,3,7,8-PeCDD	33662100	1.63 y	25:48	0.93	462.96	2.68	-	n
Total PeCDD	33824671	3.66 n	25:27	0.93	465.20	2.68	-	n
13C-1,2,3,7,8,9-HxCDD	177940200	1.25 y	32:51	-	64.87	-	-	n
13C-1,2,3,4,7,8-HxCDF	184934800	0.51 y	31:27	0.89	2328.15	4.47	116.4	n
1,2,3,4,7,8-HxCDF	53136200	1.31 y	31:28	1.20	479.25	2.45	-	n
13C-1,2,3,6,7,8-HxCDF	244860900	0.52 y	31:36	1.14	2407.44	3.49	120.4	n
1,2,3,6,7,8-HxCDF	62674400	1.23 y	31:37	1.07	477.98	2.04	-	n
13C-2,3,4,6,7,8-HxCDF	206484200	0.51 y	32:17	0.99	2340.79	4.03	117.0	n
2,3,4,6,7,8-HxCDF	51999200	1.28 y	32:18	1.12	450.75	2.09	-	n
13C-1,2,3,7,8,9-HxCDF	200333300	0.51 y	33:03	1.07	2099.56	3.72	105.0	n
1,2,3,7,8,9-HxCDF	52210900	1.25 y	33:04	1.09	476.28	2.26	-	n
Total HxCDF	220020700	1.31 y	31:28	1.12	1884.27	2.20	-	n
13C-1,2,3,4,7,8-HxCDD	148948400	1.25 y	32:27	0.73	2291.14	1.29	114.6	n
1,2,3,4,7,8-HxCDD	35533800	1.25 y	32:28	0.97	493.76	1.44	-	n
13C-1,2,3,6,7,8-HxCDD	152466700	1.30 y	32:33	0.73	2340.82	1.29	117.0	n
1,2,3,6,7,8-HxCDD	38830200	1.26 y	32:34	1.06	481.27	1.47	-	n
1,2,3,7,8,9-HxCDD	40200100	1.26 y	32:52	1.27	419.65	1.16	-	n
Total HxCDD	114605618	3.00 n	32:17	1.10	1395.19	1.34	-	n
13C-1,2,3,4,6,7,8-HpCDF	173164700	0.43 y	34:36	0.86	2262.83	6.25	113.1	n
1,2,3,4,6,7,8-HpCDF	54083400	1.05 y	34:37	1.29	485.50	1.92	-	n
13C-1,2,3,4,7,8,9-HpCDF	152527600	0.42 y	35:53	0.77	2233.57	7.00	111.7	n
1,2,3,4,7,8,9-HpCDF	44615700	1.05 y	35:54	1.27	459.77	2.42	-	n
Total HpCDF	98699100	1.05 y	34:37	1.28	945.27	2.15	-	n

13C-1,2,3,4,6,7,8-HpCDD	150261100	1.06 y	35:32	0.75	2245.36	4.02	112.3	n
1,2,3,4,6,7,8-HpCDD	35301400	1.05 y	35:33	1.00	470.89	2.29	-	n
Total HpCDD	35553500	0.78 n	34:54	1.00	474.25	2.29	-	n
13C-OCDD	214408000	0.91 y	38:20	0.56	4269.63	4.55	106.7	n
OCDF	71179900	0.89 y	38:28	1.44	923.89	2.51	-	n
OCDD	55918600	0.88 y	38:20	1.11	940.23	2.77	-	n

Initial Calibration Checklist Dioxin Methods

ICAL ID (Tetra, 8290, 1613, 23, 0023A, TO9) 091609405

Method ID 8290, 1613B, M23, 0023A, TO9 Date Scanned _____

Column ID DB-5 Instrument ID 405

STD ID's STD16 & STD16(A-D) STD Solution 9DXN (36-240)

GC Program DCDD Multiplier Setting 410

Analyzed By AM Date Analyzed 9/16/09

Prepared By KAS Date Prepared 9/17/09

Reviewed By M.G. Date Reviewed 9/21/09

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 RT 13C-1,2,3,4-TCDD 19:54
 13C-1,2,3,7,8,9-HxCDD 33:18

*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: CAL Analyte: 8290 Cal: 82900916099D5

ST0916 : CS-1 09DXN236 ST0916A : CS-2 09DXN237 ST0916B : CS-3 09DXN238
 ST0916C : CS-4 09DXN239 ST0916D : CS-5 09DXN240

16SE094D5 16SE094D5 16SE094D5 16SE094D5 16SE094D5

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.459	0.063	4.33 %	1.42	1.50	1.38	1.47	1.54
2,3,7,8-TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28
Total TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28
13C-2,3,7,8-TCDD	0.923	0.042	4.50 %	0.89	0.93	0.88	0.93	0.98
2,3,7,8-TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27
Total TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27
37C1-2,3,7,8-TCDD	2.515	0.152	6.03 %	2.35	2.48	2.47	2.51	2.77
13C-1,2,3,7,8-PeCDF	1.267	0.085	6.70 %	1.19	1.28	1.18	1.29	1.39
1,2,3,7,8-PeCDF	1.302	0.025	1.90 %	1.26	1.30	1.31	1.32	1.32
2,3,4,7,8-PeCDF	1.250	0.034	2.69 %	1.20	1.23	1.26	1.28	1.28
Total F2 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30
Total F1 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30
13C-1,2,3,7,8-PeCDD	0.772	0.056	7.24 %	0.72	0.78	0.72	0.79	0.85
1,2,3,7,8-PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26
Total PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26
13C-1,2,3,7,8-HxCDF	1.187	0.035	2.92 %	1.16	1.23	1.21	1.14	1.20
1,2,3,4,7,8-HxCDF	1.307	0.031	2.37 %	1.27	1.32	1.27	1.33	1.33
1,2,3,6,7,8-HxCDF	1.412	0.039	2.75 %	1.46	1.39	1.37	1.44	1.40
2,3,4,6,7,8-HxCDF	1.334	0.033	2.51 %	1.36	1.33	1.28	1.36	1.33
1,2,3,7,8,9-HxCDF	1.195	0.052	4.39 %	1.17	1.18	1.13	1.27	1.23
Total HxCDF	1.312	0.032	2.40 %	1.32	1.31	1.26	1.35	1.32
13C-1,2,3,6,7,8-HxCDD	0.747	0.046	6.16 %	0.77	0.78	0.69	0.71	0.79
1,2,3,4,7,8-HxCDD	1.242	0.047	3.75 %	1.19	1.21	1.31	1.26	1.23

1,2,3,6,7,8-HxCDD	1.479	0.113	7.64 *	1.34	1.48	1.59	1.60	1.39
1,2,3,7,8,9-HxCDD	1.473	0.089	6.01 *	1.41	1.41	1.54	1.60	1.40
Total HxCDD	1.398	0.078	5.60 *	1.32	1.37	1.48	1.48	1.34
13C-1,2,3,4,6,7,8-HpCDF	0.913	0.028	3.08 *	0.91	0.93	0.88	0.90	0.95
1,2,3,4,6,7,8-HpCDF	1.595	0.021	1.32 *	1.56	1.59	1.61	1.62	1.59
1,2,3,4,7,8,9-HpCDF	1.331	0.063	4.73 *	1.25	1.29	1.36	1.36	1.40
Total HpCDF	1.463	0.040	2.72 *	1.41	1.44	1.49	1.49	1.50
13C-1,2,3,4,6,7,8-HpCDD	0.714	0.028	3.95 *	0.70	0.73	0.69	0.69	0.76
1,2,3,4,6,7,8-HpCDD	1.307	0.033	2.51 *	1.27	1.27	1.32	1.34	1.33
Total HpCDD	1.307	0.033	2.51 *	1.27	1.27	1.32	1.34	1.33
13C-OCDD	0.606	0.053	8.81 *	0.56	0.59	0.58	0.61	0.70
OCDF	1.509	0.127	8.40 *	1.35	1.42	1.51	1.62	1.65
OCDD	1.194	0.018	1.52 *	1.16	1.20	1.20	1.21	1.20

Run #1 Filename 16SE094D5 S: 2 I: 1
 Acquired: 16-SEP-09 23:31:24 Processed: 17-SEP-09 11:24:44
 Run: CAL Analyte: 8290 Cal: 82900916099D5

Comments:

Sample text: ST0916 :CS-1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	183702200	0.81 y	19:55	-	100.00	n
13C-2,3,7,8-TCDF	260750000	0.80 y	19:19	1.4194	100.00	n
2,3,7,8-TCDF	1642551	0.83 y	19:20	1.2599	0.50	n
Total TCDF	-	- n	-	1.2599	0.50	n
13C-2,3,7,8-TCDD	162604500	0.79 y	20:08	0.8852	100.00	n
2,3,7,8-TCDD	976079	0.79 y	20:10	1.2006	0.50	n
Total TCDD	-	- n	-	1.2006	0.50	n
37Cl-2,3,7,8-TCDD	2161220	1.00 y	20:10	2.3530	0.50	n
13C-1,2,3,7,8-PeCDF	218918000	1.58 y	25:09	1.1917	100.00	n
1,2,3,7,8-PeCDF	6895740	1.64 y	25:11	1.2600	2.50	n
2,3,4,7,8-PeCDF	6555770	1.55 y	26:43	1.1978	2.50	n
Total F2 PeCDF	-	- n	-	1.2289	5.00	n
Total F1 PeCDF	-	- n	-	1.2289	5.00	n
13C-1,2,3,7,8-PeCDD	131538500	1.56 y	27:32	0.7160	100.00	n
1,2,3,7,8-PeCDD	3956610	1.64 y	27:33	1.2032	2.50	n
Total PeCDD	-	- n	-	1.2032	2.50	n
13C-1,2,3,7,8,9-HxCDD	165793200	1.30 y	33:18	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	192374100	0.52 y	32:12	1.1603	100.00	n
1,2,3,4,7,8-HxCDF	6120170	1.26 y	32:13	1.2726	2.50	n
1,2,3,6,7,8-HxCDF	7038300	1.25 y	32:20	1.4635	2.50	n
2,3,4,6,7,8-HxCDF	6550220	1.22 y	32:51	1.3620	2.50	n
1,2,3,7,8,9-HxCDF	5611790	1.23 y	33:29	1.1668	2.50	n
Total HxCDF	-	- n	-	1.3162	10.00	n
13C-1,2,3,6,7,8-HxCDD	127338900	1.30 y	33:03	0.7681	100.00	n
1,2,3,4,7,8-HxCDD	3797960	1.22 y	32:59	1.1930	2.50	n
1,2,3,6,7,8-HxCDD	4275760	1.34 y	33:04	1.3431	2.50	n
1,2,3,7,8,9-HxCDD	4496420	1.21 y	33:19	1.4124	2.50	n
Total HxCDD	-	- n	-	1.3162	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	150532500	0.45 y	34:50	0.9080	100.00	n
1,2,3,4,6,7,8-HpCDF	5884430	1.04 y	34:51	1.5636	2.50	n
1,2,3,4,7,8,9-HpCDF	4696010	1.06 y	35:59	1.2478	2.50	n
Total HpCDF	-	- n	-	1.4057	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	116065600	1.08 y	35:39	0.7001	100.00	n
1,2,3,4,6,7,8-HpCDD	3693920	0.98 y	35:40	1.2730	2.50	n
Total HpCDD	-	- n	-	1.2730	2.50	n
13C-OCDD	185677600	0.89 y	38:11	0.5600	200.00	n
OCDF	6268920	0.90 y	38:18	1.3505	5.00	n

OCDD 5401040 0.91 y 38:12 1.1635 5.00 n

Run #2 Filename 16SE094D5 S: 3 I: 1
 Acquired: 17-SEP-09 00:15:26 Processed: 17-SEP-09 11:24:45
 Run: CAL Analyte: 8290 Cal: 82900916099D5

Comments:

Sample text: ST0916A :CS-2 09DXN237

Name	Resp	RA	RT	RRF	Mod?
13C-1,2,3,4-TCDD	174258200	0.80 y	19:55	-	100.00 n
13C-2,3,7,8-TCDF	260563000	0.79 y	19:18	1.4953	100.00 n
2,3,7,8-TCDF	6519840	0.81 y	19:19	1.2511	2.00 n
Total TCDF	-	- n	-	1.2511	2.00 n
13C-2,3,7,8-TCDD	162828900	0.80 y	20:07	0.9344	100.00 n
2,3,7,8-TCDD	3898470	0.82 y	20:08	1.1971	2.00 n
Total TCDD	-	- n	-	1.1971	2.00 n
37Cl-2,3,7,8-TCDD	8655220	1.00 y	20:08	2.4834	2.00 n
13C-1,2,3,7,8-PeCDF	223432700	1.57 y	25:08	1.2822	100.00 n
1,2,3,7,8-PeCDF	29012100	1.56 y	25:10	1.2985	10.00 n
2,3,4,7,8-PeCDF	27588500	1.60 y	26:42	1.2348	10.00 n
Total F2 PeCDF	-	- n	-	1.2666	20.00 n
Total F1 PeCDF	-	- n	-	1.2666	20.00 n
13C-1,2,3,7,8-PeCDD	136333800	1.58 y	27:31	0.7824	100.00 n
1,2,3,7,8-PeCDD	16600790	1.59 y	27:32	1.2177	10.00 n
Total PeCDD	-	- n	-	1.2177	10.00 n
13C-1,2,3,7,8,9-HxCDD	166587400	1.28 y	33:18	-	100.00 n
13C-1,2,3,4,7,8-HxCDF	204181100	0.52 y	32:11	1.2257	100.00 n
1,2,3,4,7,8-HxCDF	27011800	1.24 y	32:12	1.3229	10.00 n
1,2,3,6,7,8-HxCDF	28451800	1.26 y	32:19	1.3935	10.00 n
2,3,4,6,7,8-HxCDF	27223100	1.25 y	32:50	1.3333	10.00 n
1,2,3,7,8,9-HxCDF	24175600	1.25 y	33:28	1.1840	10.00 n
Total HxCDF	-	- n	-	1.3084	40.00 n
13C-1,2,3,6,7,8-HxCDD	130040500	1.14 y	33:02	0.7806	100.00 n
1,2,3,4,7,8-HxCDD	15782320	1.27 y	32:58	1.2136	10.00 n
1,2,3,6,7,8-HxCDD	19231230	1.28 y	33:03	1.4789	10.00 n
1,2,3,7,8,9-HxCDD	18391800	1.25 y	33:19	1.4143	10.00 n
Total HxCDD	-	- n	-	1.3689	30.00 n
13C-1,2,3,4,6,7,8-HpCDF	155140300	0.45 y	34:49	0.9313	100.00 n
1,2,3,4,6,7,8-HpCDF	24649600	1.04 y	34:50	1.5889	10.00 n
1,2,3,4,7,8,9-HpCDF	19953090	1.03 y	35:58	1.2861	10.00 n
Total HpCDF	-	- n	-	1.4375	20.00 n
13C-1,2,3,4,6,7,8-HpCDD	121753700	1.09 y	35:38	0.7309	100.00 n
1,2,3,4,6,7,8-HpCDD	15485060	1.08 y	35:39	1.2718	10.00 n
Total HpCDD	-	- n	-	1.2718	10.00 n
13C-OCDD	196789600	0.88 y	38:11	0.5907	200.00 n
OCDF	27962300	0.93 y	38:18	1.4209	20.00 n
OCDD	23529900	0.91 y	38:11	1.1957	20.00 n

Run #3 Filename 16SE094D5 S: 4 I: 1
 Acquired: 17-SEP-09 00:59:28 Processed: 17-SEP-09 11:24:45
 Run: CAL Analyte: 8290 Cal: 82900916099D5

Comments:

Sample text: ST0916B :CS-3 09DXN238

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	178298000	0.81 y	19:54	-	100.00	n
13C-2,3,7,8-TCDF	245291000	0.80 y	19:18	1.3757	100.00	n
2,3,7,8-TCDF	31358200	0.79 y	19:19	1.2784	10.00	n
Total TCDF	-	- n	-	1.2784	10.00	n
13C-2,3,7,8-TCDD	156857300	0.80 y	20:07	0.8797	100.00	n
2,3,7,8-TCDD	19225190	0.80 y	20:08	1.2256	10.00	n
Total TCDD	-	- n	-	1.2256	10.00	n
37C1-2,3,7,8-TCDD	44027200	1.00 y	20:08	2.4693	10.00	n
13C-1,2,3,7,8-PeCDF	210512500	1.58 y	25:08	1.1807	100.00	n
1,2,3,7,8-PeCDF	138343700	1.56 y	25:10	1.3144	50.00	n
2,3,4,7,8-PeCDF	133075100	1.57 y	26:42	1.2643	50.00	n
Total F2 PeCDF	-	- n	-	1.2893	100.00	n
Total F1 PeCDF	-	- n	-	1.2893	100.00	n
13C-1,2,3,7,8-PeCDD	128616600	1.55 y	27:31	0.7214	100.00	n
1,2,3,7,8-PeCDD	80288500	1.60 y	27:32	1.2485	50.00	n
Total PeCDD	-	- n	-	1.2485	50.00	n
13C-1,2,3,7,8,9-HxCDD	165760000	1.30 y	33:18	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	200435000	0.52 y	32:11	1.2092	100.00	n
1,2,3,4,7,8-HxCDF	127762400	1.23 y	32:12	1.2749	50.00	n
1,2,3,6,7,8-HxCDF	136984500	1.25 y	32:19	1.3669	50.00	n
2,3,4,6,7,8-HxCDF	128341100	1.24 y	32:50	1.2806	50.00	n
1,2,3,7,8,9-HxCDF	113439900	1.25 y	33:28	1.1319	50.00	n
Total HxCDF	-	- n	-	1.2636	200.00	n
13C-1,2,3,6,7,8-HxCDD	114258700	1.32 y	33:02	0.6893	100.00	n
1,2,3,4,7,8-HxCDD	75014900	1.24 y	32:58	1.3131	50.00	n
1,2,3,6,7,8-HxCDD	90678400	1.27 y	33:03	1.5872	50.00	n
1,2,3,7,8,9-HxCDD	87808300	1.25 y	33:19	1.5370	50.00	n
Total HxCDD	-	- n	-	1.4791	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	145436600	0.45 y	34:49	0.8774	100.00	n
1,2,3,4,6,7,8-HpCDF	117193900	1.04 y	34:50	1.6116	50.00	n
1,2,3,4,7,8,9-HpCDF	98982300	1.05 y	35:58	1.3612	50.00	n
Total HpCDF	-	- n	-	1.4864	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	114712800	1.08 y	35:38	0.6920	100.00	n
1,2,3,4,6,7,8-HpCDD	75877400	1.06 y	35:39	1.3229	50.00	n
Total HpCDD	-	- n	-	1.3229	50.00	n
13C-OCDD	190966700	0.88 y	38:10	0.5760	200.00	n
OCDF	143992700	0.90 y	38:17	1.5080	100.00	n
OCDD	114381400	0.93 y	38:10	1.1979	100.00	n

Run #4 Filename 16SE094D5 S: 5 I: 1
 Acquired: 17-SEP-09 01:43:31 Processed: 17-SEP-09 11:24:46
 Run: CAL Analyte: 8290 Cal: 82900916099D5

Comments:

Sample text: ST0916C:CS-4 09DXN239

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	182174800	0.81 y	19:54	-	100.00	n
13C-2,3,7,8-TCDF	267116000	0.81 y	19:18	1.4663	100.00	n
2,3,7,8-TCDF	138743400	0.80 y	19:20	1.2985	40.00	n
Total TCDF	-	- n	-	1.2985	40.00	n
13C-2,3,7,8-TCDD	170266200	0.80 y	20:07	0.9346	100.00	n
2,3,7,8-TCDD	84868900	0.80 y	20:08	1.2461	40.00	n
Total TCDD	-	- n	-	1.2461	40.00	n
37Cl-2,3,7,8-TCDD	182649000	1.00 y	20:08	2.5065	40.00	n
13C-1,2,3,7,8-PeCDF	235093300	1.57 y	25:08	1.2905	100.00	n
1,2,3,7,8-PeCDF	620154000	1.55 y	25:10	1.3190	200.00	n
2,3,4,7,8-PeCDF	600628000	1.56 y	26:42	1.2774	200.00	n
Total F2 PeCDF	-	- n	-	1.2982	400.00	n
Total F1 PeCDF	-	- n	-	1.2982	400.00	n
13C-1,2,3,7,8-PeCDD	143991200	1.57 y	27:31	0.7904	100.00	n
1,2,3,7,8-PeCDD	367163000	1.59 y	27:33	1.2749	200.00	n
Total PeCDD	-	- n	-	1.2749	200.00	n
13C-1,2,3,7,8,9-HxCDD	189897800	1.28 y	33:18	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	216967700	0.52 y	32:11	1.1425	100.00	n
1,2,3,4,7,8-HxCDF	578760000	1.24 y	32:12	1.3337	200.00	n
1,2,3,6,7,8-HxCDF	624910000	1.25 y	32:19	1.4401	200.00	n
2,3,4,6,7,8-HxCDF	591494000	1.25 y	32:51	1.3631	200.00	n
1,2,3,7,8,9-HxCDF	549123000	1.25 y	33:29	1.2654	200.00	n
Total HxCDF	-	- n	-	1.3506	800.00	n
13C-1,2,3,6,7,8-HxCDD	133983400	1.29 y	33:02	0.7056	100.00	n
1,2,3,4,7,8-HxCDD	337599000	1.24 y	32:59	1.2599	200.00	n
1,2,3,6,7,8-HxCDD	427447000	1.27 y	33:03	1.5951	200.00	n
1,2,3,7,8,9-HxCDD	427792000	1.26 y	33:19	1.5964	200.00	n
Total HxCDD	-	- n	-	1.4838	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	171001500	0.44 y	34:49	0.9005	100.00	n
1,2,3,4,6,7,8-HpCDF	552951000	1.04 y	34:50	1.6168	200.00	n
1,2,3,4,7,8,9-HpCDF	464361000	1.05 y	35:58	1.3578	200.00	n
Total HpCDF	-	- n	-	1.4873	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	131210500	1.07 y	35:38	0.6910	100.00	n
1,2,3,4,6,7,8-HpCDD	352395000	1.06 y	35:39	1.3429	200.00	n
Total HpCDD	-	- n	-	1.3429	200.00	n
13C-OCDD	230404000	0.88 y	38:10	0.6067	200.00	n
OCDF	745269000	0.91 y	38:17	1.6173	400.00	n
OCDD	558899000	0.92 y	38:10	1.2129	400.00	n

Run #5 Filename 16SE094D5 S: 6 I: 1
 Acquired: 17-SEP-09 02:27:33 Processed: 17-SEP-09 11:24:47
 Run: CAL Analyte: 8290 Cal: 82900916099D5

Comments:

Sample text: ST0916D :CS-5 09DXN240

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	176528700	0.81 y	19:54	-	100.00	n
13C-2,3,7,8-TCDF	271318000	0.79 y	19:18	1.5370	100.00	n
2,3,7,8-TCDF	693694000	0.79 y	19:19	1.2784	200.00	n
Total TCDF	-	- n	-	1.2784	200.00	n
13C-2,3,7,8-TCDD	173115700	0.80 y	20:07	0.9807	100.00	n
2,3,7,8-TCDD	438030000	0.81 y	20:08	1.2651	200.00	n
Total TCDD	-	- n	-	1.2651	200.00	n
37Cl-2,3,7,8-TCDD	976226000	1.00 y	20:08	2.7651	200.00	n
13C-1,2,3,7,8-PeCDF	245220600	1.60 y	25:08	1.3891	100.00	n
1,2,3,7,8-PeCDF	3228880000	1.56 y	25:10	1.3167	1000.00	n
2,3,4,7,8-PeCDF	3126610000	1.56 y	26:41	1.2750	1000.00	n
Total F2 PeCDF	-	- n	-	1.2959	2000.00	n
Total F1 PeCDF	-	- n	-	1.2959	2000.00	n
13C-1,2,3,7,8-PeCDD	150373900	1.55 y	27:30	0.8518	100.00	n
1,2,3,7,8-PeCDD	1899013000	1.60 y	27:32	1.2629	1000.00	n
Total PeCDD	-	- n	-	1.2629	1000.00	n
13C-1,2,3,7,8,9-HxCDD	196217100	1.29 y	33:18	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	235191300	0.53 y	32:11	1.1986	100.00	n
1,2,3,4,7,8-HxCDF	3133780000	1.24 y	32:12	1.3324	1000.00	n
1,2,3,6,7,8-HxCDF	3286570000	1.26 y	32:19	1.3974	1000.00	n
2,3,4,6,7,8-HxCDF	3131580000	1.25 y	32:50	1.3315	1000.00	n
1,2,3,7,8,9-HxCDF	2891050000	1.25 y	33:28	1.2292	1000.00	n
Total HxCDF	-	- n	-	1.3226	4000.00	n
13C-1,2,3,6,7,8-HxCDD	155027900	1.29 y	33:02	0.7901	100.00	n
1,2,3,4,7,8-HxCDD	1909775000	1.23 y	32:58	1.2319	1000.00	n
1,2,3,6,7,8-HxCDD	2159480000	1.26 y	33:03	1.3930	1000.00	n
1,2,3,7,8,9-HxCDD	2175108000	1.25 y	33:19	1.4030	1000.00	n
Total HxCDD	-	- n	-	1.3426	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	186419900	0.46 y	34:49	0.9501	100.00	n
1,2,3,4,6,7,8-HpCDF	2970820000	1.04 y	34:50	1.5936	1000.00	n
1,2,3,4,7,8,9-HpCDF	2617160000	1.04 y	35:58	1.4039	1000.00	n
Total HpCDF	-	- n	-	1.4988	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	148168700	1.08 y	35:38	0.7551	100.00	n
1,2,3,4,6,7,8-HpCDD	1964907000	1.05 y	35:39	1.3261	1000.00	n
Total HpCDD	-	- n	-	1.3261	1000.00	n
13C-OCDD	273211000	0.89 y	38:10	0.6962	200.00	n
OCDF	4506160000	0.91 y	38:17	1.6493	2000.00	n
OCDD	3272660000	0.92 y	38:10	1.1979	2000.00	n

Run: CAL Analyte: TO9

Cal: TO90916099D5

ST0916 :CS-1 09DXN236 ST0916A :CS-2 09DXN237 ST0916B :CS-3 09DXN238
ST0916C :CS-4 09DXN239 ST0916D :CS-5 09DXN240

16SE094D5 16SE094D5 16SE094D5 16SE094D5 16SE094D5

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

13C-2,3,7,8-TCDF	1.459	0.063	4.33 %	1.42	1.50	1.38	1.47	1.54
2,3,7,8-TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28
Total TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28

13C-2,3,7,8-TCDD	0.923	0.042	4.50 %	0.89	0.93	0.88	0.93	0.98
2,3,7,8-TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27
Total TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27

37Cl-2,3,7,8-TCDD	2.725	0.081	2.99 %	2.66	2.66	2.81	2.68	2.82
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13C-1,2,3,7,8-PeCDF	1.267	0.085	6.70 %	1.19	1.28	1.18	1.29	1.39
1,2,3,7,8-PeCDF	1.302	0.025	1.90 %	1.26	1.30	1.31	1.32	1.32
2,3,4,7,8-PeCDF	1.250	0.034	2.69 %	1.20	1.23	1.26	1.28	1.28
Total F2 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30
Total F1 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30

13C-1,2,3,7,8-PeCDD	0.772	0.056	7.24 %	0.72	0.78	0.72	0.79	0.85
1,2,3,7,8-PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26
Total PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26

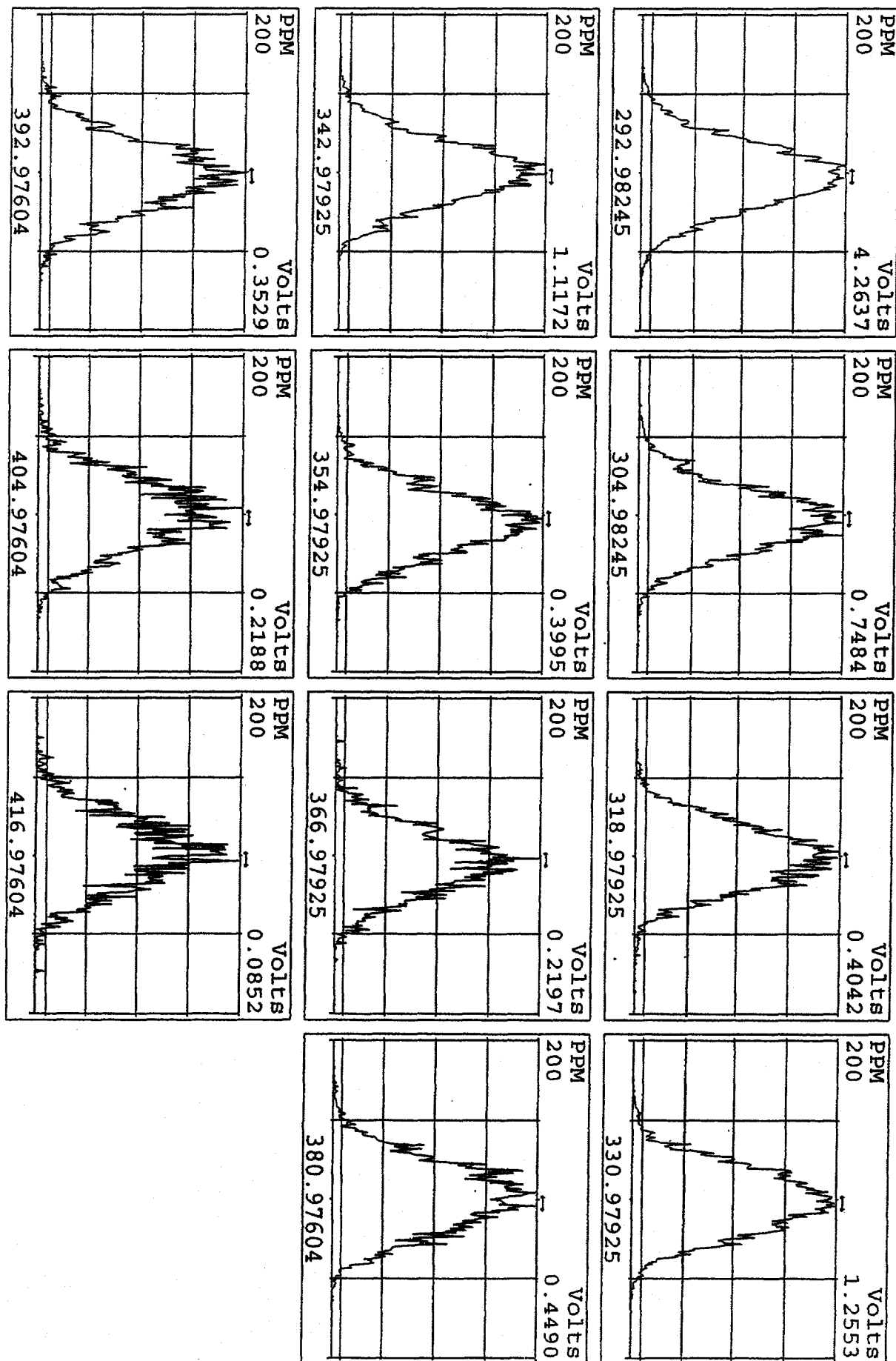
13C-1,2,3,7,8-HxCDD	-	-	- %	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	1.187	0.035	2.92 %	1.16	1.23	1.21	1.14	1.20
1,2,3,4,7,8-HxCDF	1.307	0.031	2.37 %	1.27	1.32	1.27	1.33	1.33
1,2,3,6,7,8-HxCDF	1.412	0.039	2.75 %	1.46	1.39	1.37	1.44	1.40
2,3,4,6,7,8-HxCDF	1.334	0.033	2.51 %	1.36	1.33	1.28	1.36	1.33
1,2,3,7,8,9-HxCDF	1.195	0.052	4.39 %	1.17	1.18	1.13	1.27	1.23
Total HxCDF	1.312	0.032	2.40 %	1.32	1.31	1.26	1.35	1.32

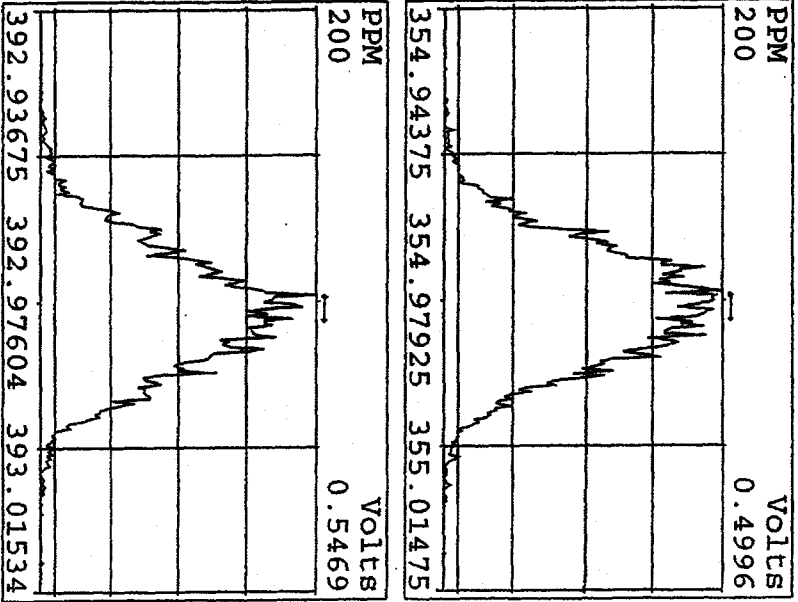
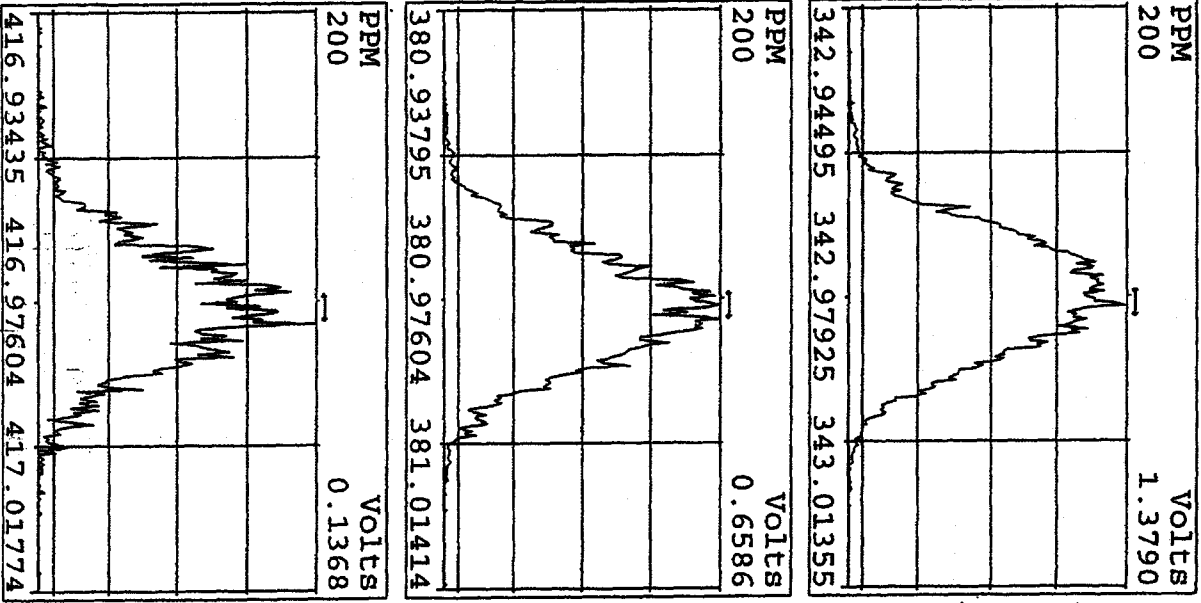
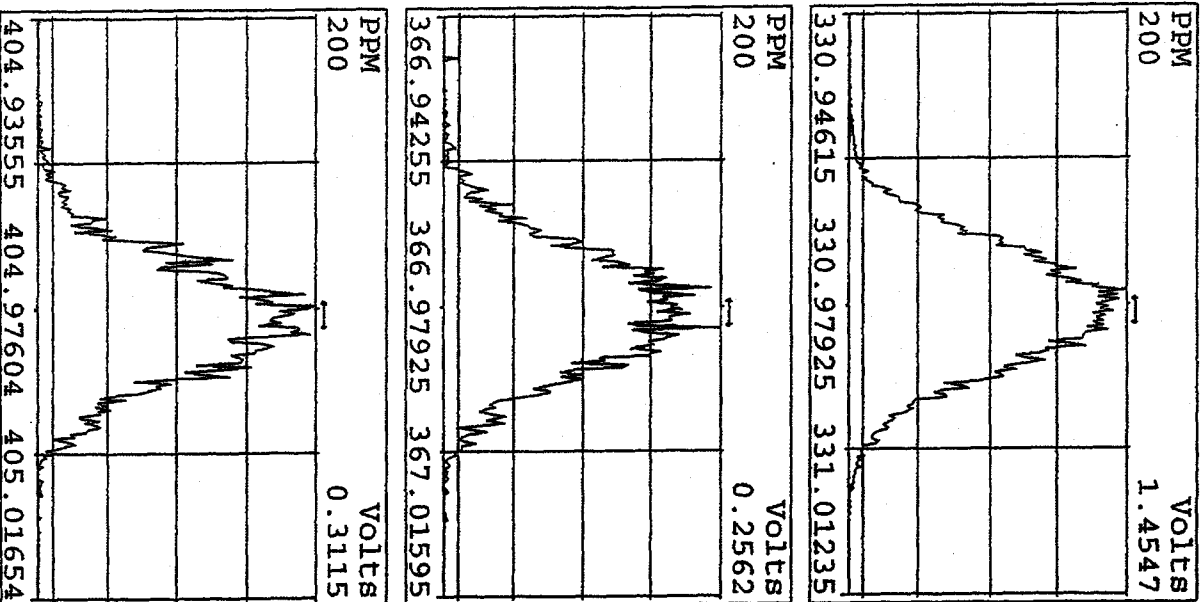
13C-1,2,3,6,7,8-HxCDD	0.747	0.046	6.16 %	0.77	0.78	0.69	0.71	0.79
1,2,3,4,7,8-HxCDD	1.242	0.047	3.75 %	1.19	1.21	1.31	1.26	1.23

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
16SE094D5	1	CP0916	DB-5 CPSM 3732-02				1.00000	
16SE094D5	2	ST0916	CS-1 09DXN236				1.00000	
16SE094D5	3	ST0916A	CS-2 09DXN237				1.00000	
16SE094D5	4	ST0916B	CS-3 09DXN238				1.00000	
16SE094D5	5	ST0916C	CS-4 09DXN239				1.00000	
16SE094D5	6	ST0916D	CS-5 09DXN240				1.00000	
16SE094D5	7	SB0916	Solvent Blank C-14				1.00000	
16SE094D5	8	ST0916E	2nd Source 3249-38				1.00000	
16SE094D5	9						1.00000	
16SE094D5	10						1.00000	
16SE094D5	11						1.00000	
16SE094D5	12						1.00000	
16SE094D5	13						1.00000	
16SE094D5	14						1.00000	
16SE094D5	15		AM 09-16-09				1.00000	
16SE094D5	16						1.00000	

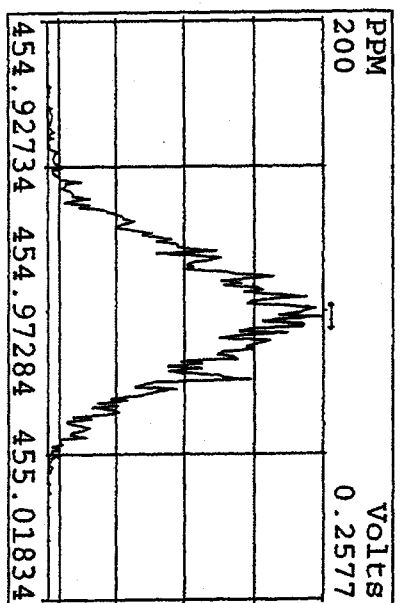
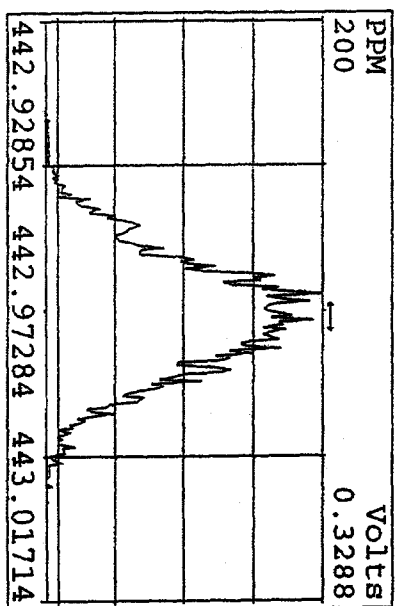
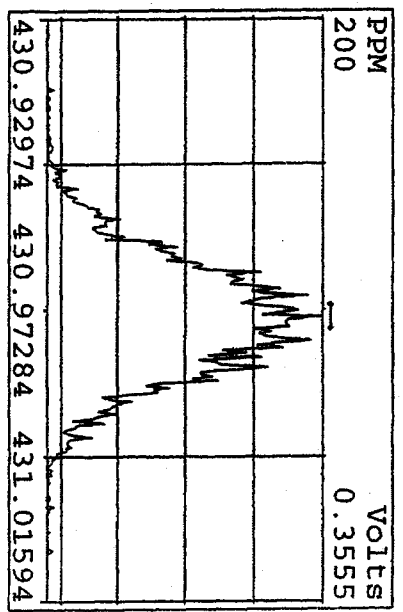
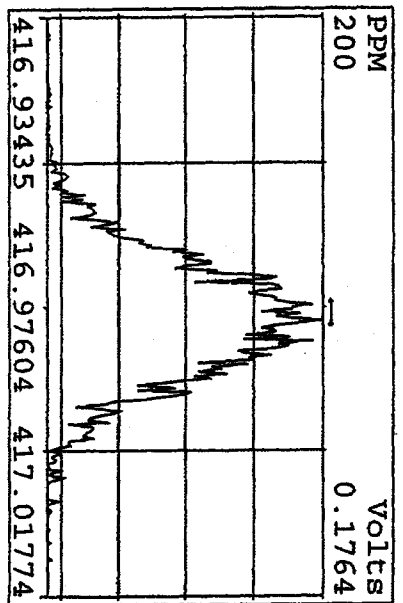
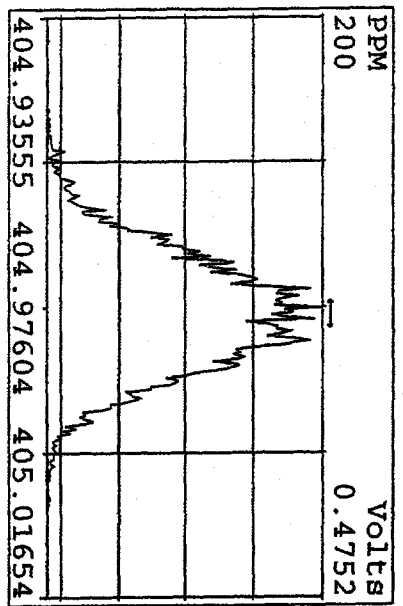
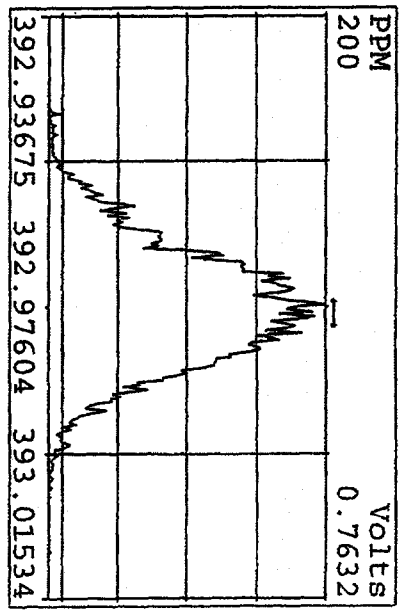
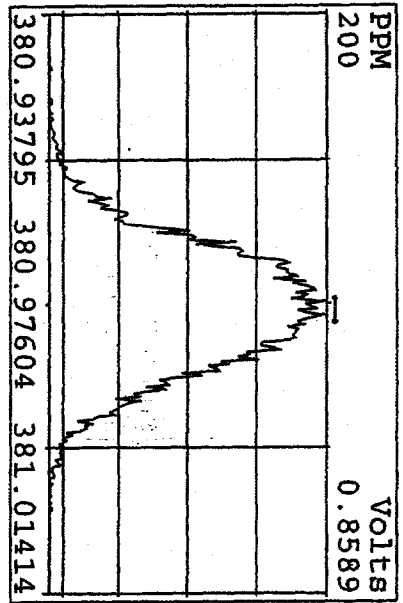
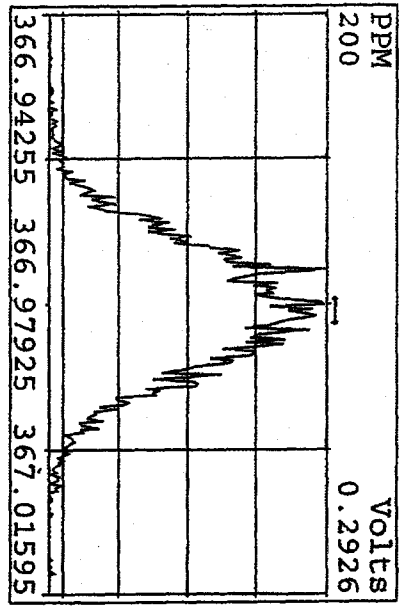
Peak Locate Examination: 16-SEP-2009:21:57 File: 16SE094D5
 Experiment: DIOXIN Function: 1 Reference: PFK



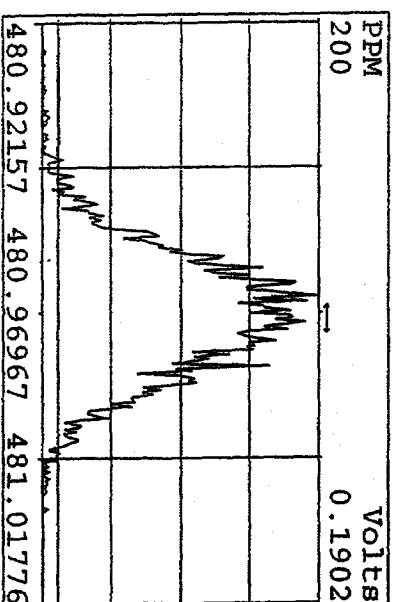
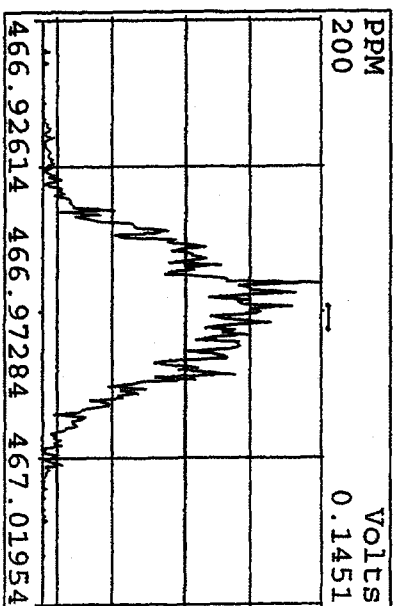
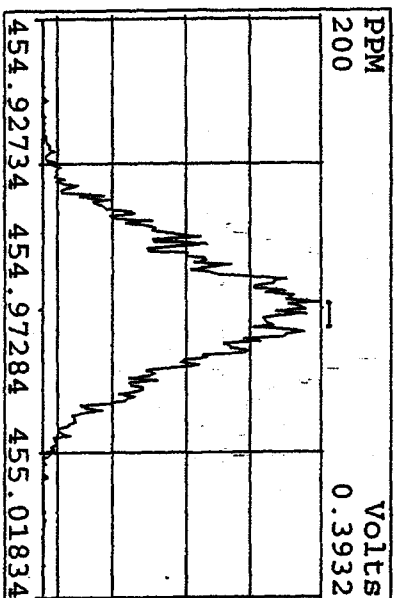
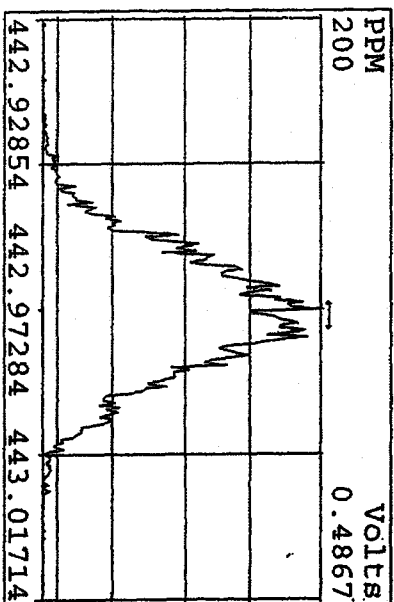
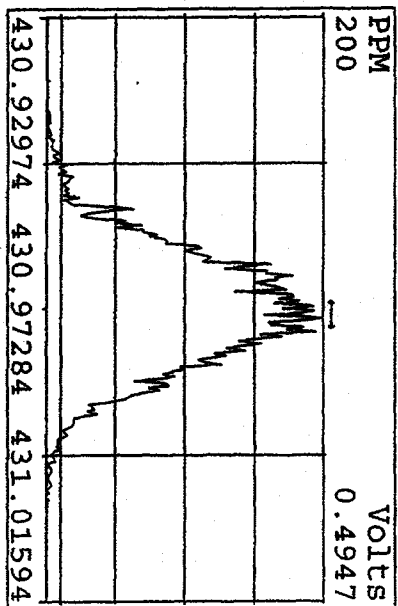
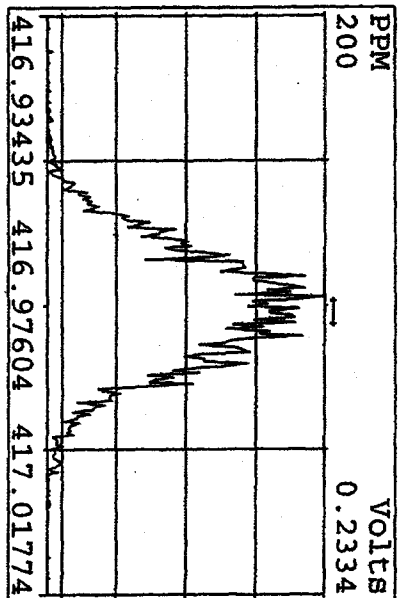
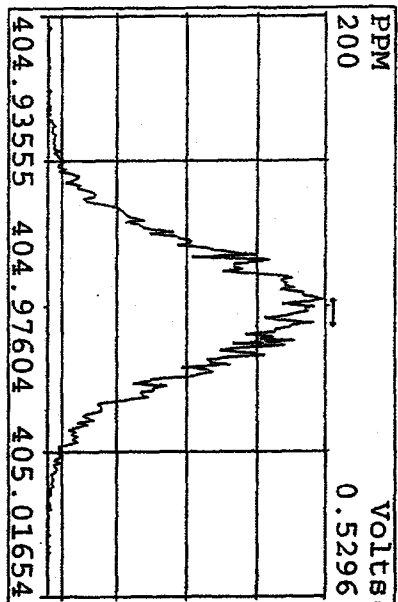
Peak Locate Examination: 16-SEP-2009: 21:58 File: 16SEP094D5
 Experiment: DIOXIN Function: 2 Reference: PRK



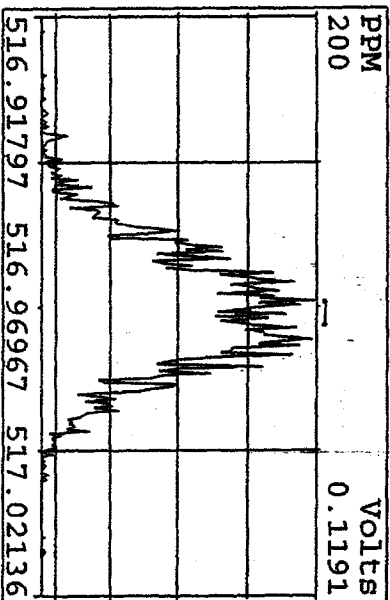
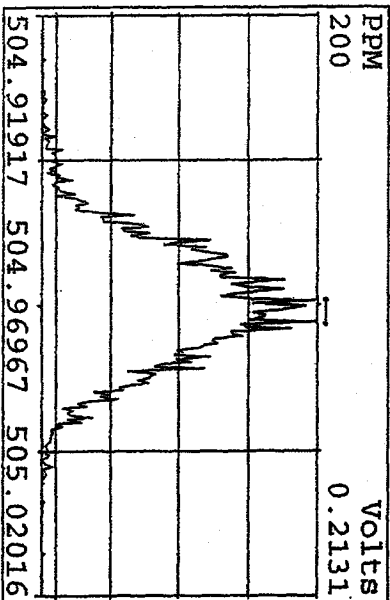
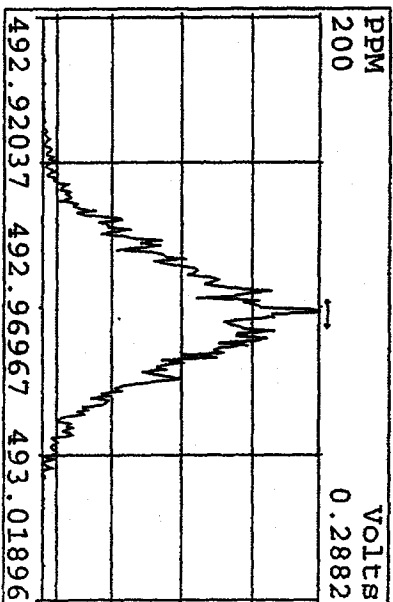
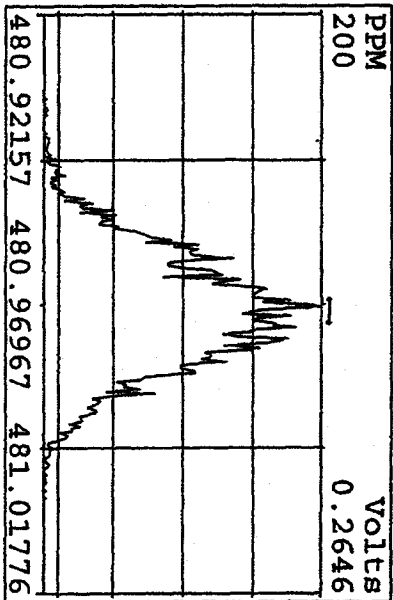
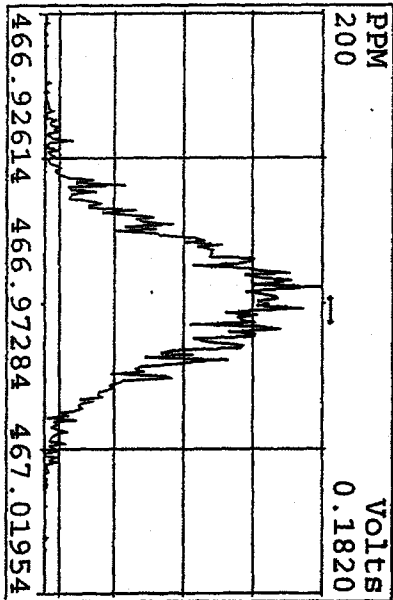
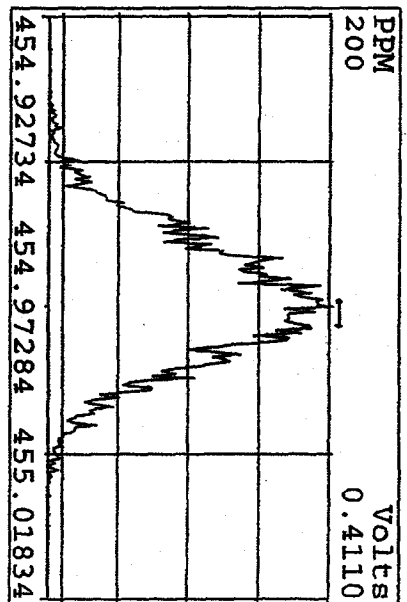
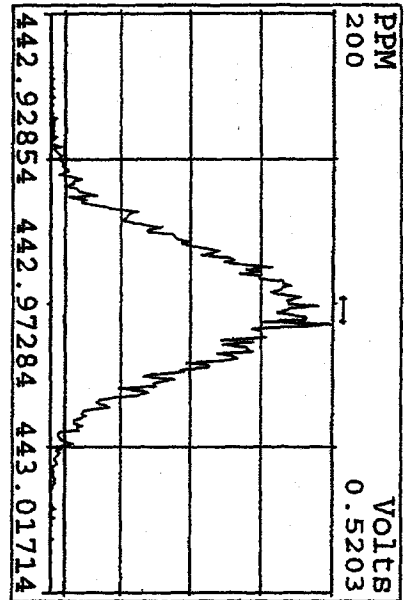
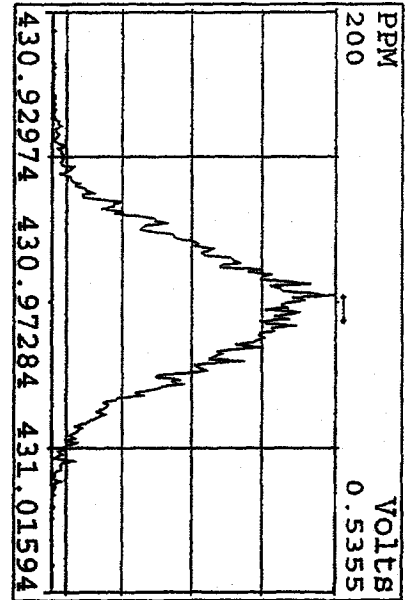
Peak Locate Examination: 16-SEP-2009:21:59 File: 16SE094D5
 Experiment: DIOXIN Function: 3 Reference: PFK



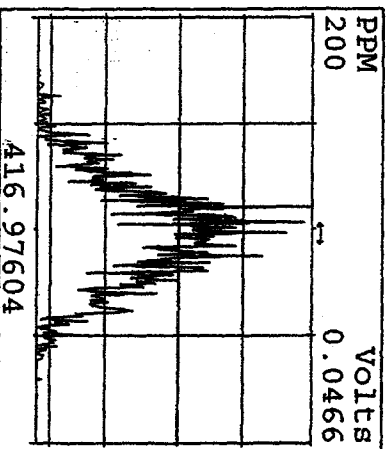
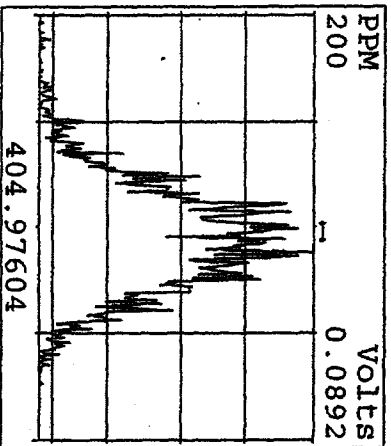
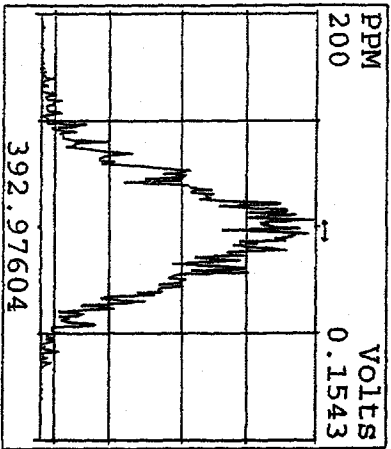
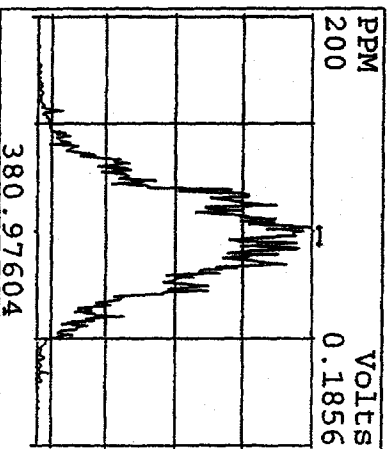
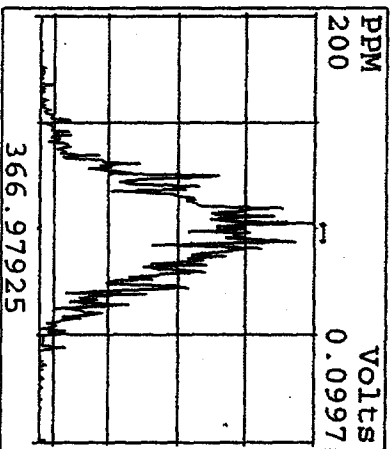
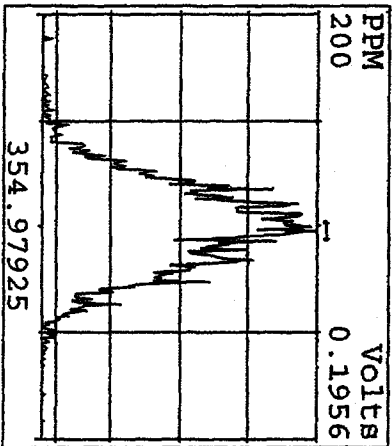
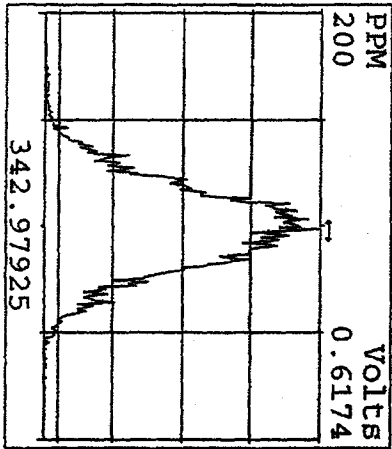
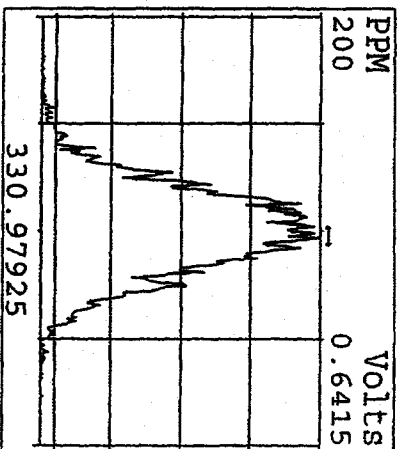
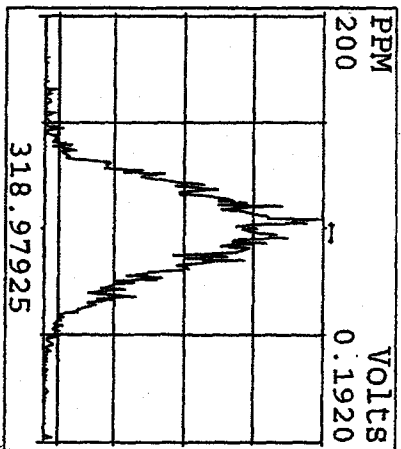
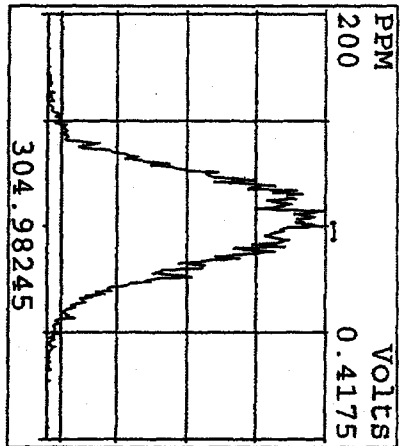
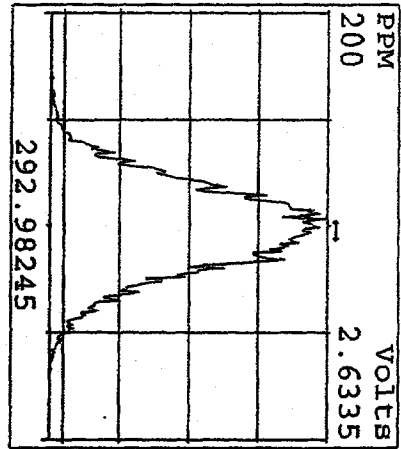
Peak Locate Examination: 16-SEP-2009: 21:59 File: 16SE094D5
 Experiment: DIOXIN Function: 4 Reference: PFK



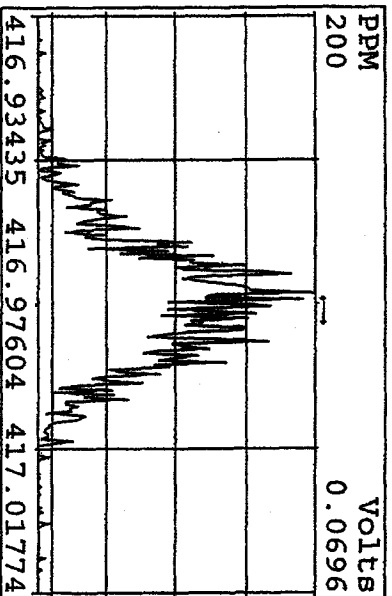
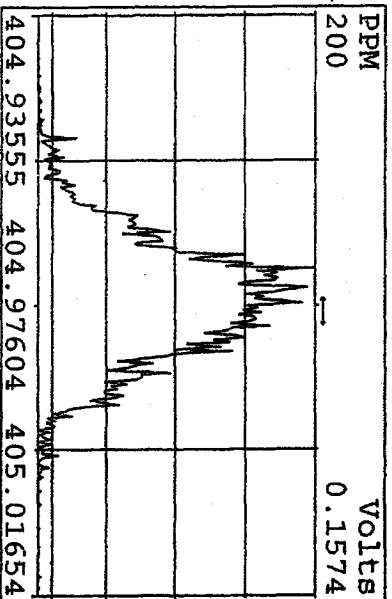
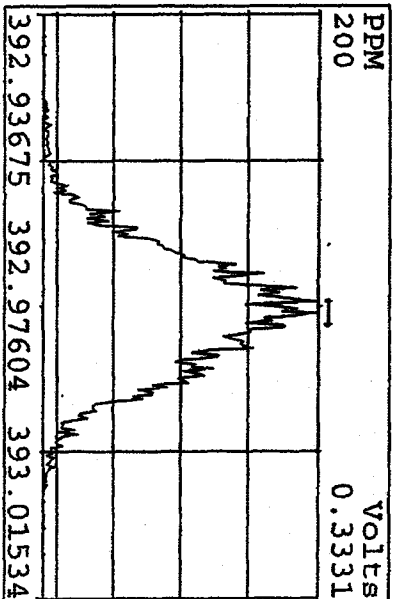
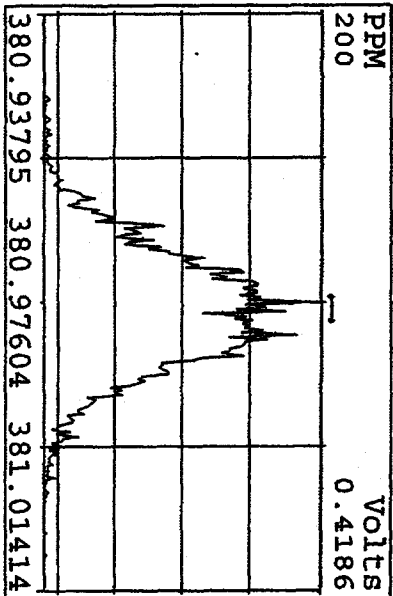
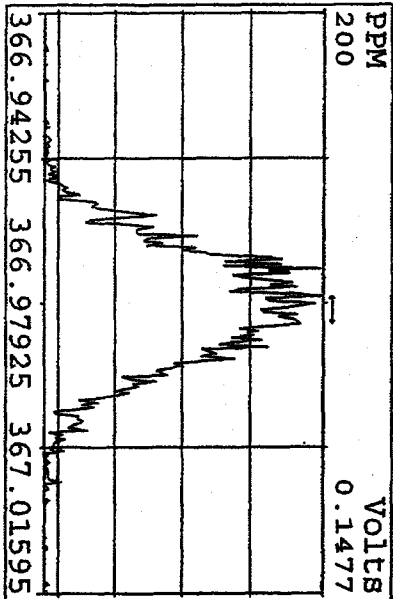
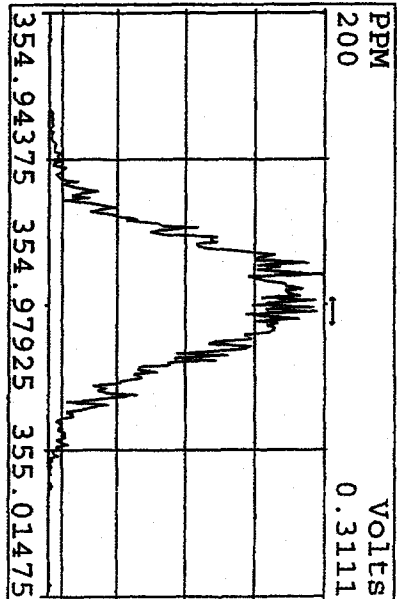
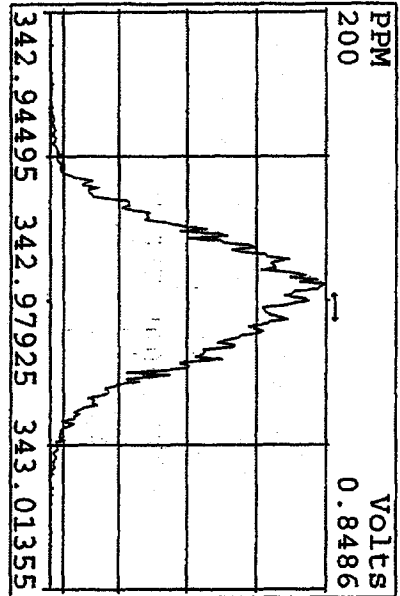
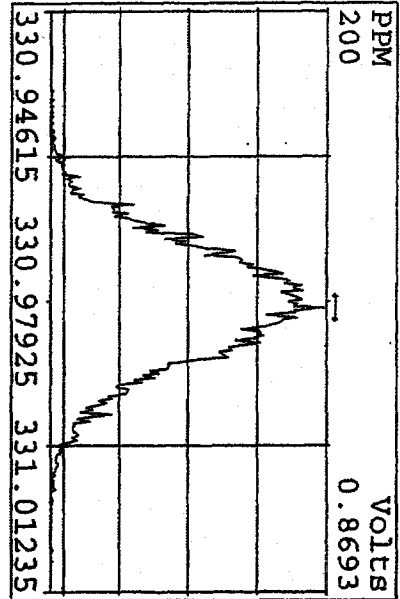
Peak Locate Examination: 16-SEP-2009: 22:00 File: 16SSE094D5
 Experiment: DIOXIN Function: 5 Reference: PFK



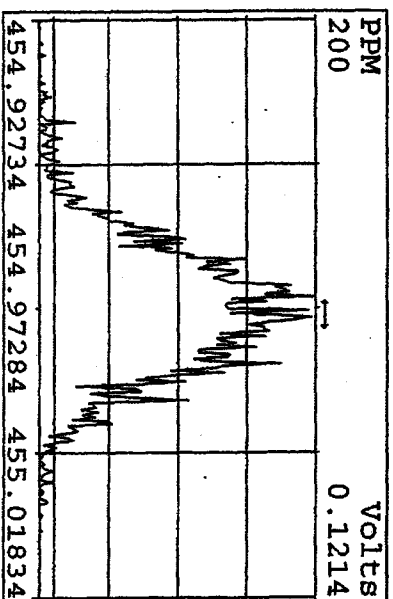
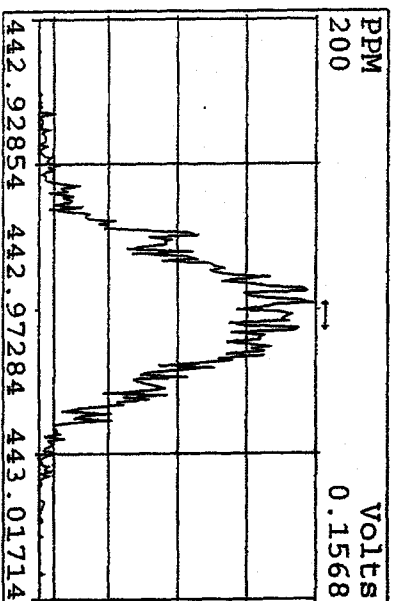
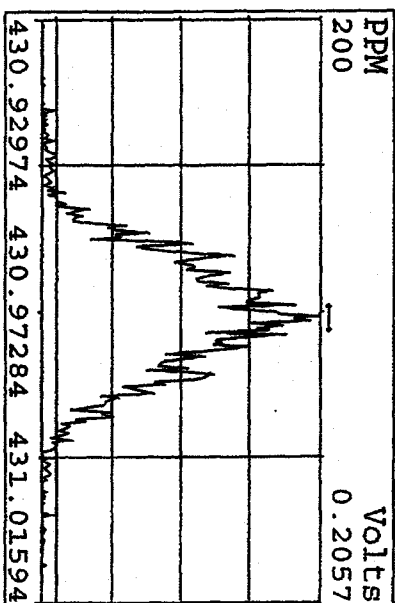
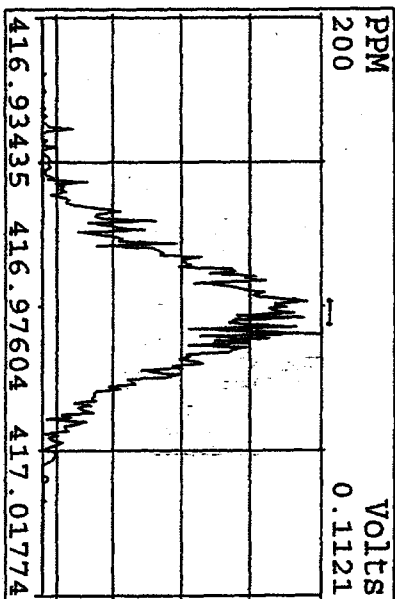
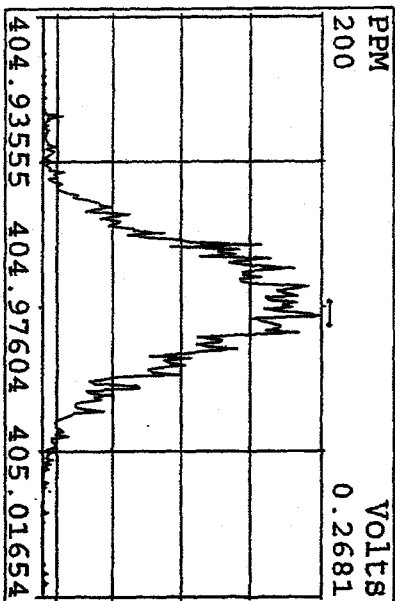
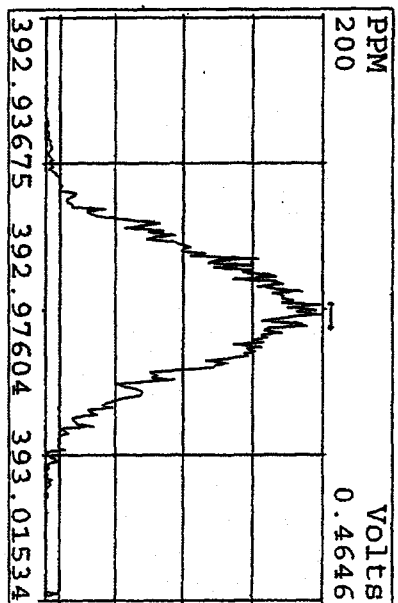
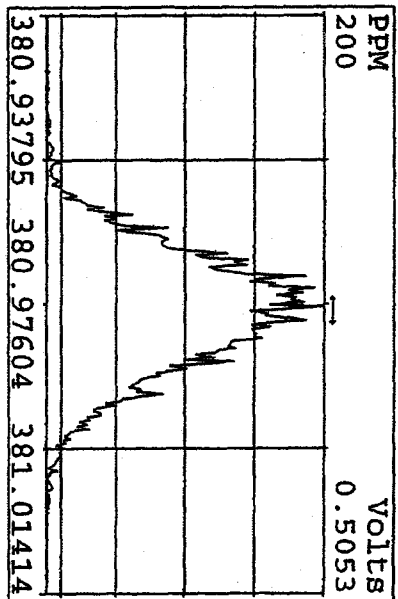
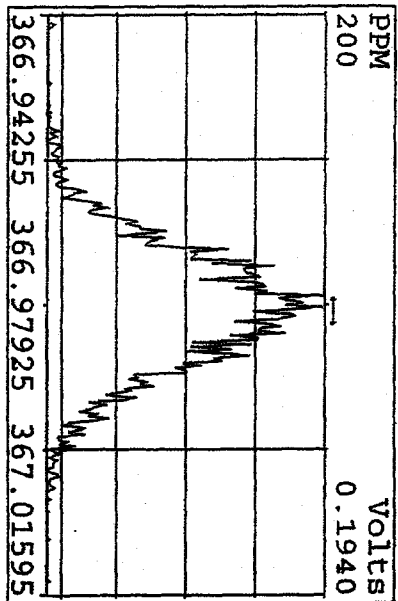
Peak Locate Examination: 17-SEP-2009:07:43 File: 16SE094D5ENDRES
Experiment: DIOXIN Function: 1 Reference: PK



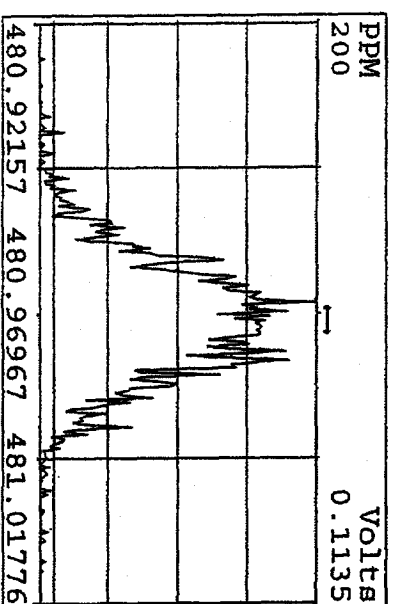
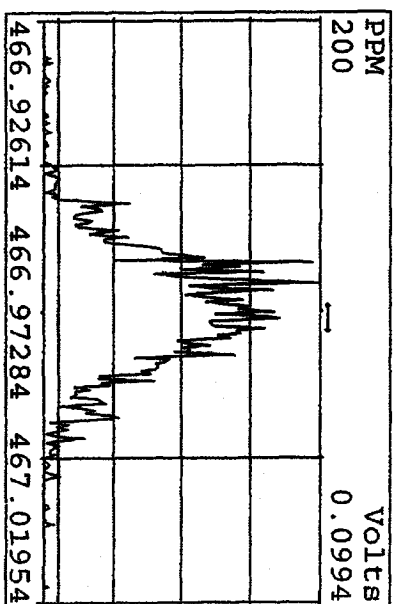
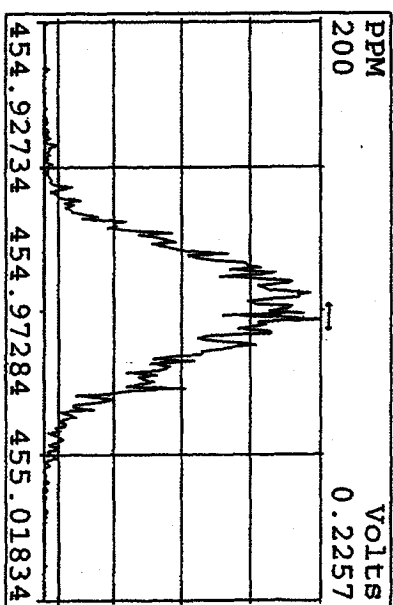
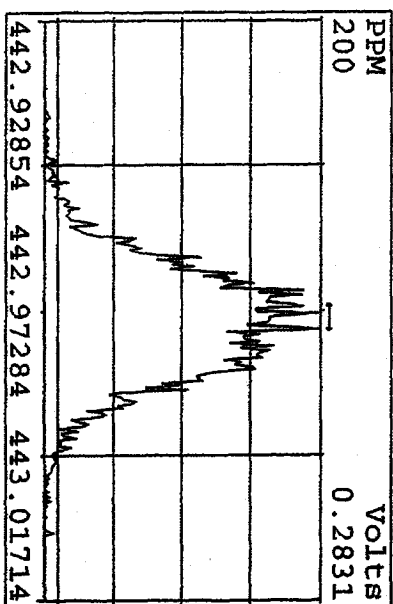
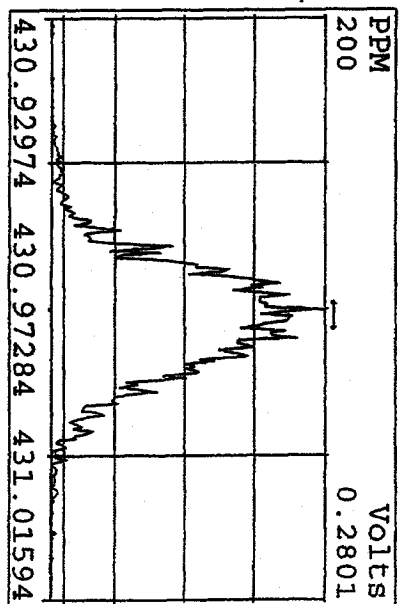
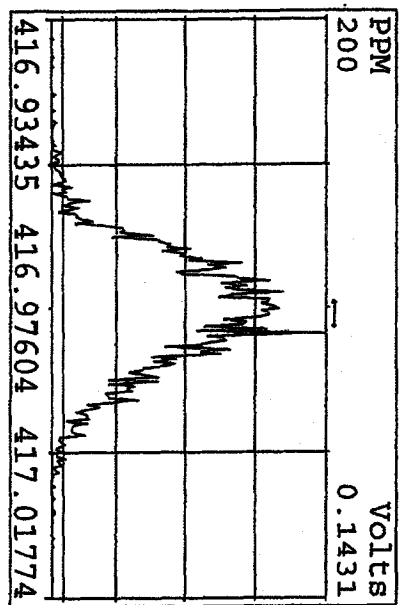
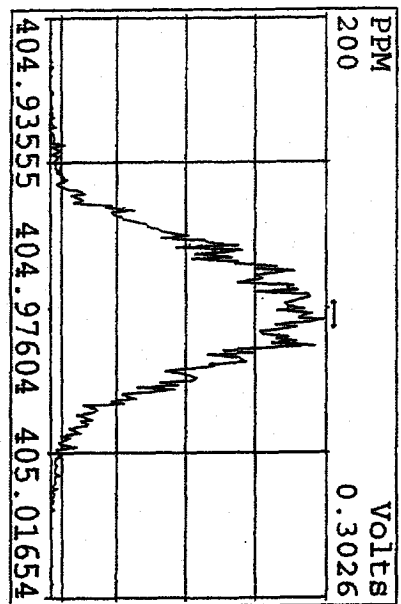
Peak Locate Examination: 17-SEP-2009:07:44 File: 16SEP094D5ENDRES
 Experiment: DIOXIN Function: 2 Reference: PRK



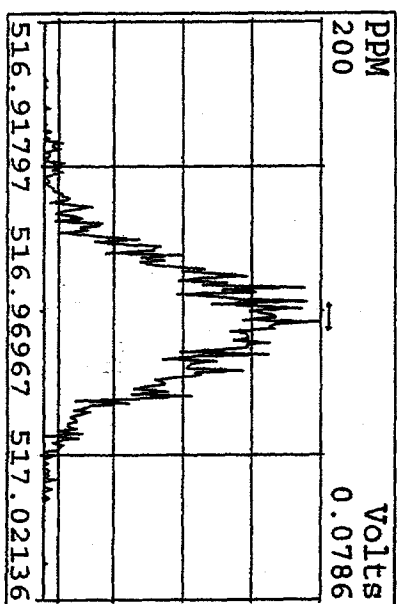
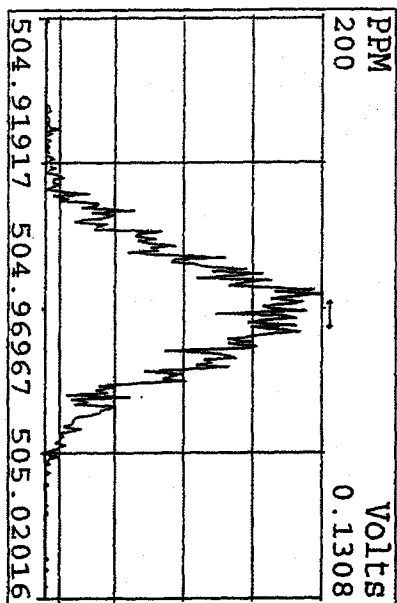
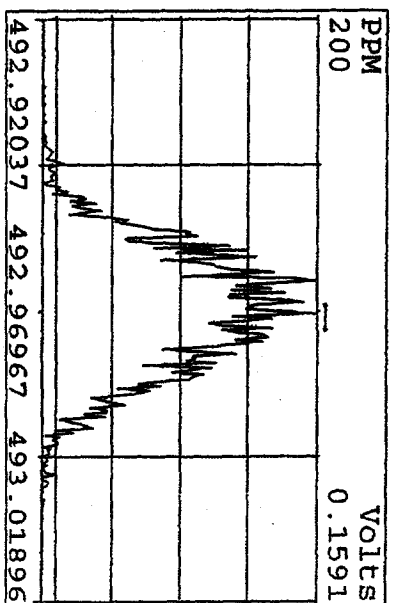
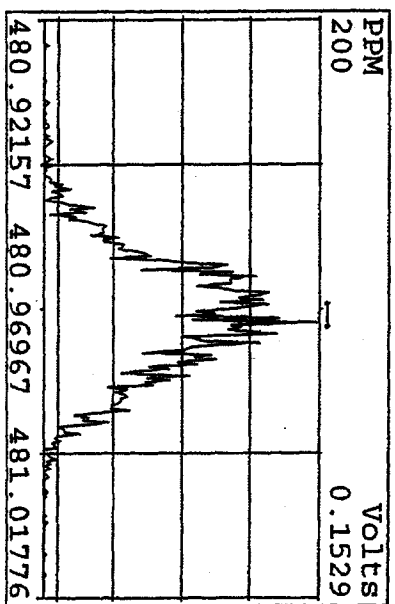
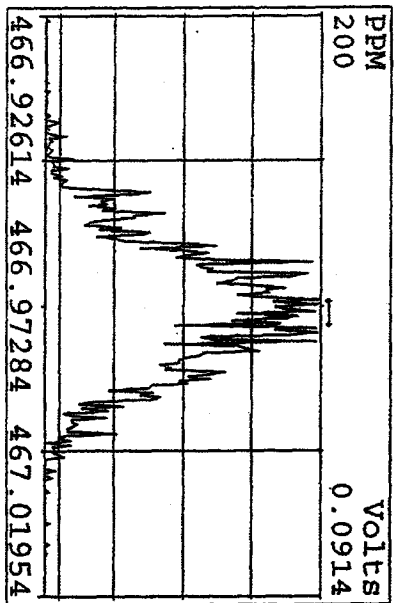
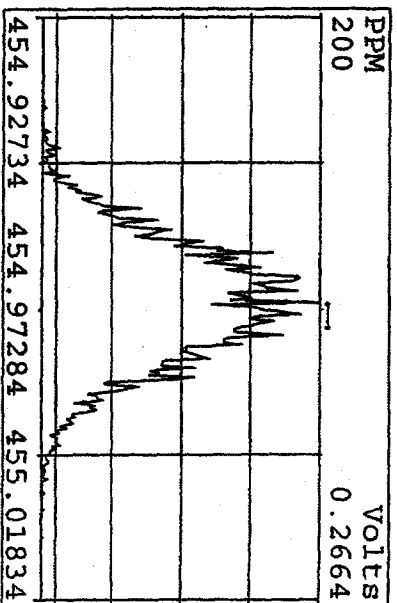
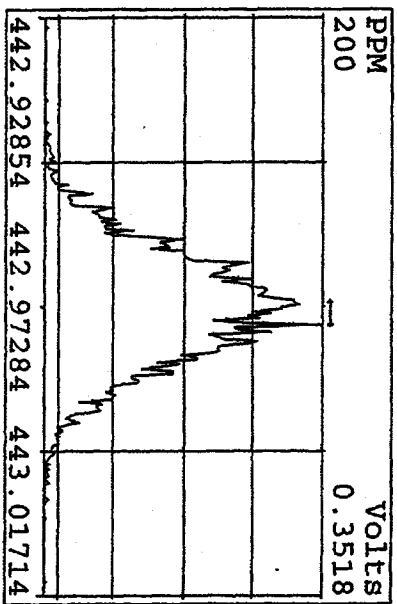
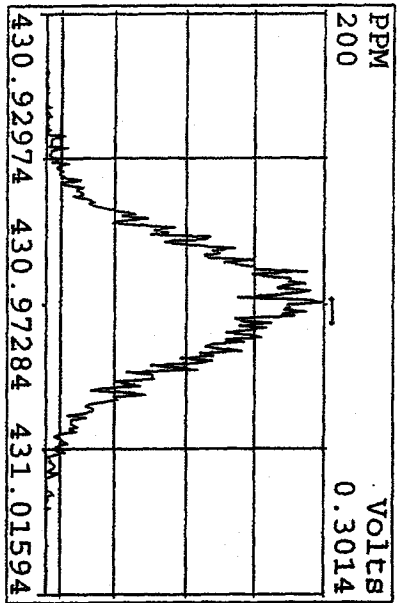
Peak Locate Examination: 17-SEP-2009:07:44 File: 16SE094D5ENDRES
 Experiment: DIOXIN Function: 3 Reference: PFK



Peak Locate Examination:17-SEP-2009:07:45 File:16SEP094D5ENDRES
 Experiment:DIOXIN Function:4 Reference:PKK



Peak Locate Examination: 17-SEP-2009:07:45 File: 16SEP094D5ENDRES
 Experiment: DIOXIN Function: 5 Reference: PFK

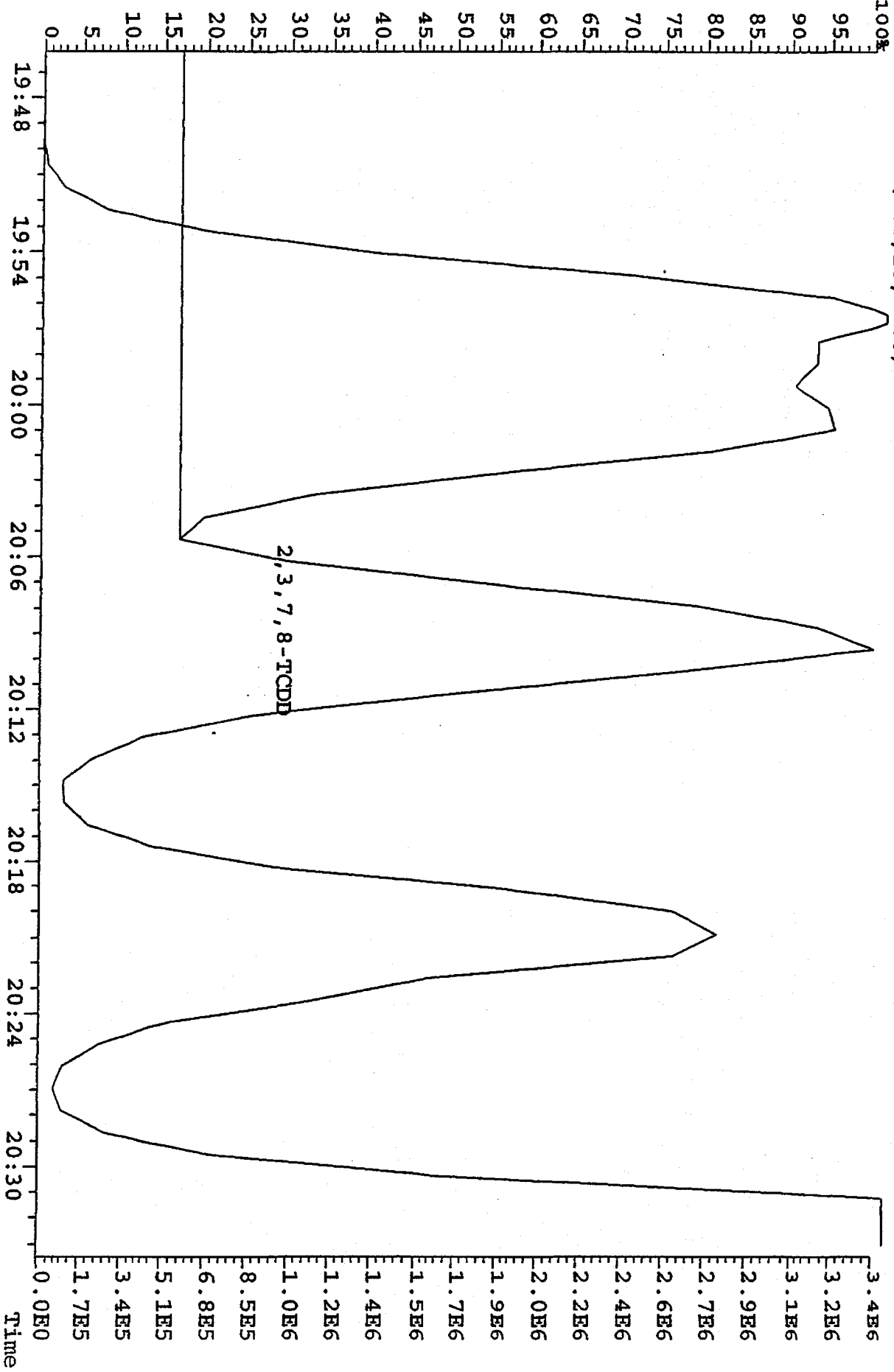


Run text: ST0919A Sample text: ST0919A :2nd Source 09DXN300
 Run #7 Filename: 19SE094D5 S: 4 I: 1 Results: 19SE094D51613
 Acquired: 19-SEP-09 16:57:51 Processed: 19-SEP-09 17:57:08
 Run: 19SE094D5 Analyte: 1613 Cal: 16130916094D5
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	146616900	0.80 y	19:55	-	81.91	-	-	n
13C-2,3,7,8-TCDF	194233400	0.79 y	19:19	1.46	1816.33	0.26	90.8	n
2,3,7,8-TCDF	20770360	0.81 y	19:20	1.27	167.97	0.10	-	n
Total TCDF	21047098	0.69 y	18:55	1.27	170.21	0.10	-	n
13C-2,3,7,8-TCDD	134020300	0.78 y	20:08	0.92	1980.85	0.78	99.0	n
2,3,7,8-TCDD	14826950	0.78 y	20:10	1.23	180.34	0.05	-	n
Total TCDD	14826950	0.78 y	20:10	1.23	180.34	0.05	-	n
37Cl-2,3,7,8-TCDD	36494200	1.00 y	20:09	2.52	197.90	0.01	99.0	n
13C-1,2,3,7,8-PeCDF	142546000	1.57 y	25:11	1.27	1534.90	1.96	76.7	n
1,2,3,7,8-PeCDF	42648200	1.55 y	25:12	1.30	459.69	0.74	-	n
13C-2,3,4,7,8-PeCDF	173111000	1.57 y	26:43	1.46	1612.13	1.69	80.6	n
2,3,4,7,8-PeCDF	41322700	1.54 y	26:44	1.08	441.89	0.77	-	n
Total F2 PeCDF	85215202	1.94 n	23:39	1.18	914.91	0.75	-	n
Total F1 PeCDF	118841	0.52 n	14:07	1.18	1.27	0.05	-	n
13C-1,2,3,7,8-PeCDD	97624100	1.53 y	27:34	0.77	1724.09	0.31	86.2	n
1,2,3,7,8-PeCDD	25447900	1.54 y	27:35	1.24	419.96	0.67	-	n
Total PeCDD	25447900	1.54 y	27:35	1.24	419.96	0.67	-	n
13C-1,2,3,7,8,9-HxCDD	119864700	1.27 y	33:20	-	67.78	-	-	n
13C-1,2,3,4,7,8-HxCDF	133202300	0.53 y	32:13	1.19	1871.98	0.67	93.6	n
1,2,3,4,7,8-HxCDF	37432500	1.20 y	32:14	1.31	429.92	0.34	-	n
13C-1,2,3,6,7,8-HxCDF	144298100	0.52 y	32:20	1.25	1928.69	0.63	96.4	n
1,2,3,6,7,8-HxCDF	41930600	1.21 y	32:20	1.34	432.81	0.33	-	n
13C-2,3,4,6,7,8-HxCDF	118577200	0.52 y	32:52	1.08	1826.66	0.73	91.3	n
2,3,4,6,7,8-HxCDF	36974100	1.23 y	32:53	1.46	426.61	0.33	-	n
13C-1,2,3,7,8,9-HxCDF	106957200	0.53 y	33:30	0.98	1813.20	0.80	90.7	n
1,2,3,7,8,9-HxCDF	32497600	1.20 y	33:31	1.44	421.65	0.38	-	n
Total HxCDF	148889993	1.67 n	31:12	1.38	1711.62	0.34	-	n
13C-1,2,3,4,7,8-HxCDD	114866600	1.28 y	33:00	0.87	2206.50	0.45	110.3	n
1,2,3,4,7,8-HxCDD	24882900	1.21 y	33:01	1.07	405.56	0.43	-	n
13C-1,2,3,6,7,8-HxCDD	92123700	1.26 y	33:04	0.75	2058.50	0.52	102.9	n
1,2,3,6,7,8-HxCDD	30708900	1.25 y	33:05	1.48	450.63	0.39	-	n
1,2,3,7,8,9-HxCDD	29087500	1.24 y	33:21	1.36	413.86	0.37	-	n
Total HxCDD	84679300	1.21 y	33:01	1.29	1270.05	0.39	-	n
13C-1,2,3,4,6,7,8-HpCDF	99470000	0.44 y	34:52	0.91	1816.99	4.69	90.8	n
1,2,3,4,6,7,8-HpCDF	35677200	1.02 y	34:52	1.59	449.77	1.31	-	n
13C-1,2,3,4,7,8,9-HpCDF	100266300	0.46 y	36:00	0.87	1925.30	4.93	96.3	n
1,2,3,4,7,8,9-HpCDF	30701000	1.01 y	36:01	1.40	437.67	1.66	-	n
Total HpCDF	66649990	1.02 y	34:52	1.50	891.07	1.47	-	n
13C-1,2,3,4,6,7,8-HpCDD	82799600	1.07 y	35:41	0.71	1935.46	2.80	96.8	n

1,2,3,4,6,7,8-HpCDD	24694300	1.05 y	35:41	1.31	456.25	1.21	-	n
Total HpCDD	25158054	1.09 y	35:07	1.31	464.82	1.21	-	n
13C-OCDD	160264800	0.90 y	38:13	0.61	4413.43	1.65	110.3	n
OCDF	50297000	0.89 y	38:20	1.51	831.79	0.75	-	n
OCDD	42217200	0.90 y	38:14	1.19	882.80	0.77	-	n

File: 16SE094D5 #1-601 Acq: 16-SEP-2009 22:46:29 GC FI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text: CP0916 : DB-5 CPSM 3732-02 Exp: DIOXIN
 319.8965 BSUB(128,15,-3.0)



Initial Calibration Checklist Dioxin Methods

ICAL ID (DB225, DB225AIR) 102109502

Method ID 8290, 1613B, Tetras, 23, 0023A, T09

Date Scanned 10/22/09 ^{11/04/09}

Column ID DB225

Instrument ID 502

STD ID's ST1021A,B,C,D,E

STD Solution (G9DXN)-236, 237, 123, 311, 240

GC Program DB225

Multiplier Setting 820 kV

Analyzed By KAS

Date Analyzed 10/21/09, 10/22/09

Prepared By KSS

Date Prepared 10/22/09

Reviewed By M.G.

Date Reviewed 10/22/09

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 RT 13C-1,2,3,4-TCDD = 14:32

*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: 210C095D2 Analyte: DB225 Cal: DB2251021095D2

ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	210C095D2							
				S3 RRF1	S4 RRF2	S5 RRF3	S6 RRF4	S7 RRF5			
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00			
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11			
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97			
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46			
37Cl-2,3,7,8-TCDD	2.705	0.282	10.4 %	2.28	2.70	2.80	3.06	2.68			

Run #1 Filename 21OC095D2 S: 3 I: 1
Acquired: 21-OCT-09 22:40:02 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2
Comments:

Sample text: ST1021A :CS1 09DXN236

Name	Resp	RA	RT	RRF	Mod?
13C-1,2,3,4-TCDD	159777300	0.75 y	14:33	-	100.00 n
13C-2,3,7,8-TCDF	283074000	0.83 y	15:41	1.772	100.00 n
2,3,7,8-TCDF	1837089	0.82 y	15:42	1.298	0.50 n
13C-2,3,7,8-TCDD	145710700	0.76 y	14:17	0.912	100.00 n
2,3,7,8-TCDD	1060714	0.85 y	14:19	1.456	0.50 n
37Cl-2,3,7,8-TCDD	1820036	1.00 y	14:19	2.278	0.50 n

Run #2 Filename 21OC095D2 S: 4 I: 1
Acquired: 21-OCT-09 23:17:05 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021B :CS2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	146762200	0.80 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	295537000	0.84 y	15:40	2.014	100.00	n
2,3,7,8-TCDF	7158100	0.67 y	15:42	1.211	2.00	n
13C-2,3,7,8-TCDD	139584500	0.75 y	14:17	0.951	100.00	n
2,3,7,8-TCDD	4525160	0.83 y	14:19	1.621	2.00	n
37Cl-2,3,7,8-TCDD	7927020	1.00 y	14:18	2.701	2.00	n

Run #3 Filename 21OC095D2 S: 5 I: 1
Acquired: 21-OCT-09 23:54:06 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021C :CS3 09DXN123

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	158503900	0.74 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	315863000	0.85 y	15:40	1.993	100.00	n
2,3,7,8-TCDF	37100400	0.73 y	15:41	1.175	10.00	n
13C-2,3,7,8-TCDD	156056100	0.74 y	14:17	0.985	100.00	n
2,3,7,8-TCDD	23336700	0.86 y	14:18	1.495	10.00	n
37C1-2,3,7,8-TCDD	44361400	1.00 y	14:18	2.799	10.00	n

Run #4 Filename 21OC095D2 S: 6 I: 1
Acquired: 22-OCT-09 00:31:07 Processed: 22-OCT-09 10:13:20
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021D :CS4 09DXN311

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	134818500	0.80 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	282970000	0.86 y	15:40	2.099	100.00	n
2,3,7,8-TCDF	125144200	0.67 y	15:41	1.106	40.00	n
13C-2,3,7,8-TCDD	140240600	0.79 y	14:17	1.040	100.00	n
2,3,7,8-TCDD	84166000	0.88 y	14:18	1.500	40.00	n
37Cl-2,3,7,8-TCDD	165061800	1.00 y	14:17	3.061	40.00	n

Run #5 Filename 21OC095D2 S: 7 I: 1
Acquired: 22-OCT-09 01:08:10 Processed: 22-OCT-09 10:13:20
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021E :CS5 09DXN240

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	160493400	0.77 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	321050000	0.84 y	15:39	2.000	100.00	n
2,3,7,8-TCDF	712667000	0.71 y	15:40	1.110	200.00	n
13C-2,3,7,8-TCDD	155146500	0.74 y	14:17	0.967	100.00	n
2,3,7,8-TCDD	452444000	0.87 y	14:18	1.458	200.00	n
37Cl-2,3,7,8-TCDD	861636000	1.00 y	14:18	2.684	200.00	n

Run: 210C095D2 Analyte: DE225AIR Cal: DE225AIR1021095D2

ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	210C095D2										
				S3	S4	S5	S6	S7	RRF1	RRF2	RRF3	RRF4	RRF5	
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00	1.30	1.21	1.17	1.11	1.11	1.11
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11	1.30	1.21	1.17	1.11	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97	1.46	1.62	1.50	1.50	1.46	1.46
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46	1.46	1.62	1.50	1.50	1.46	1.46
37Cl-2,3,7,8-TCDD	2.780	0.168	6.05 %	2.50	2.84	2.84	2.94	2.78	2.50	2.84	2.84	2.94	2.78	2.78

Run #1 Filename 21OC095D2 S: 3 I: 1
Acquired: 21-OCT-09 22:40:02 Processed: 22-OCT-09 11:29:34
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

Comments:

Sample text: ST1021A :CS1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	159777300	0.75 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	283074000	0.83 y	15:41	1.772	100.00	n
2,3,7,8-TCDF	1837089	0.82 y	15:42	1.298	0.50	n
13C-2,3,7,8-TCDD	145710700	0.76 y	14:17	0.912	100.00	n
2,3,7,8-TCDD	1060714	0.85 y	14:19	1.456	0.50	n
37C1-2,3,7,8-TCDD	1820036	1.00 y	14:19	2.498	0.50	n

Run #2 Filename 21OC095D2 S: 4 I: 1
Acquired: 21-OCT-09 23:17:05 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

Comments:

Sample text: ST1021B :CS2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	146762200	0.80 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	295537000	0.84 y	15:40	2.014	100.00	n
2,3,7,8-TCDF	7158100	0.67 y	15:42	1.211	2.00	n
13C-2,3,7,8-TCDD	139584500	0.75 y	14:17	0.951	100.00	n
2,3,7,8-TCDD	4525160	0.83 y	14:19	1.621	2.00	n
37C1-2,3,7,8-TCDD	7927020	1.00 y	14:18	2.840	2.00	n

Run #3 Filename 21OC095D2 S: 5 I: 1
Acquired: 21-OCT-09 23:54:06 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:

Sample text: ST1021C :CS3 09DXN123

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	158503900	0.74 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	315863000	0.85 y	15:40	1.993	100.00	n
2,3,7,8-TCDF	37100400	0.73 y	15:41	1.175	10.00	n
13C-2,3,7,8-TCDD	156056100	0.74 y	14:17	0.985	100.00	n
2,3,7,8-TCDD	23336700	0.86 y	14:18	1.495	10.00	n
37Cl-2,3,7,8-TCDD	44361400	1.00 y	14:18	2.843	10.00	n

Run #4 Filename 21OC095D2 S: 6 I: 1
Acquired: 22-OCT-09 00:31:07 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:
Sample text: ST1021D :CS4 09DXN311

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	134818500	0.80 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	282970000	0.86 y	15:40	2.099	100.00	n
2,3,7,8-TCDF	125144200	0.67 y	15:41	1.106	40.00	n
13C-2,3,7,8-TCDD	140240600	0.79 y	14:17	1.040	100.00	n
2,3,7,8-TCDD	84166000	0.88 y	14:18	1.500	40.00	n
37Cl-2,3,7,8-TCDD	165061800	1.00 y	14:17	2.942	40.00	n

Run #5 Filename 21OC095D2 S: 7 I: 1
Acquired: 22-OCT-09 01:08:10 Processed: 22-OCT-09 11:29:36
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

Comments:

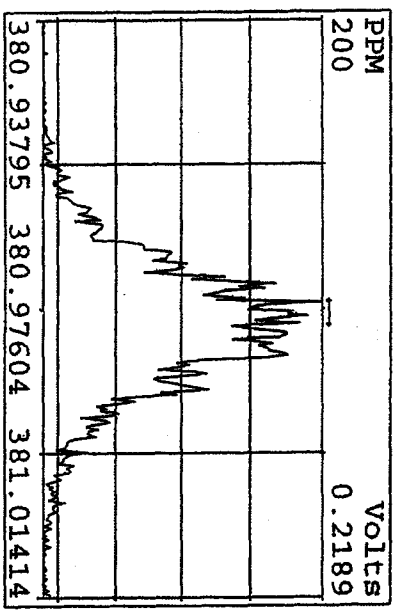
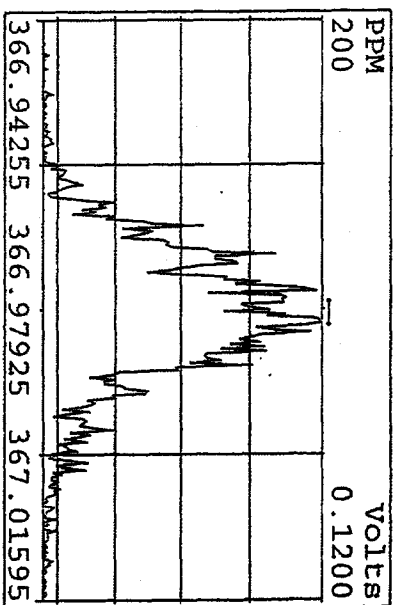
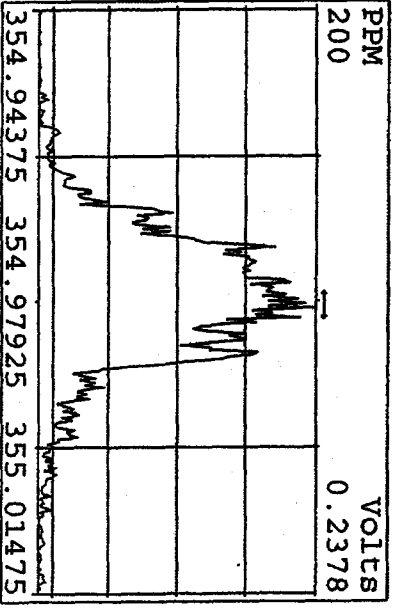
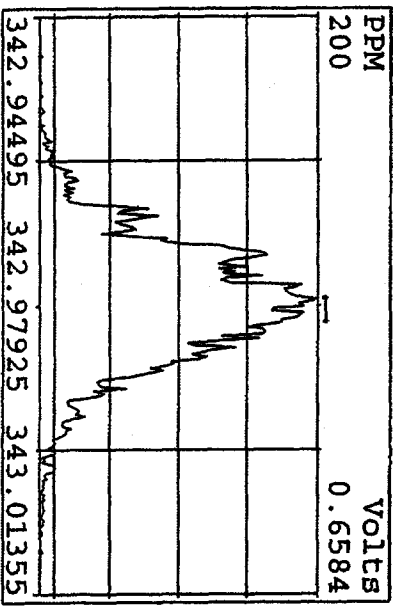
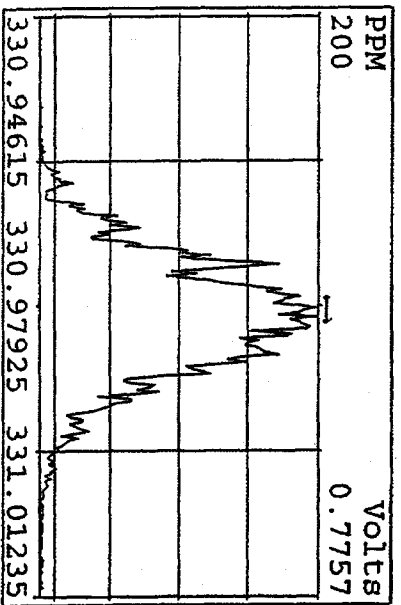
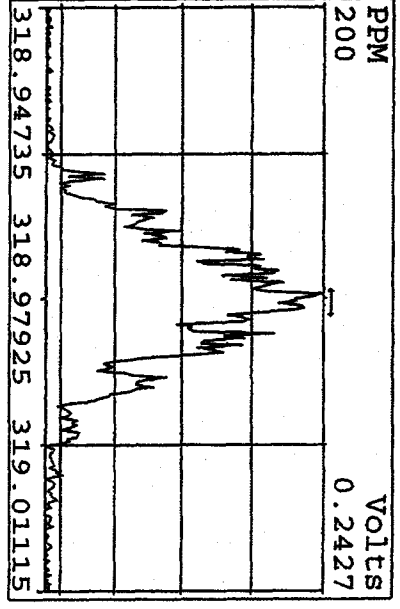
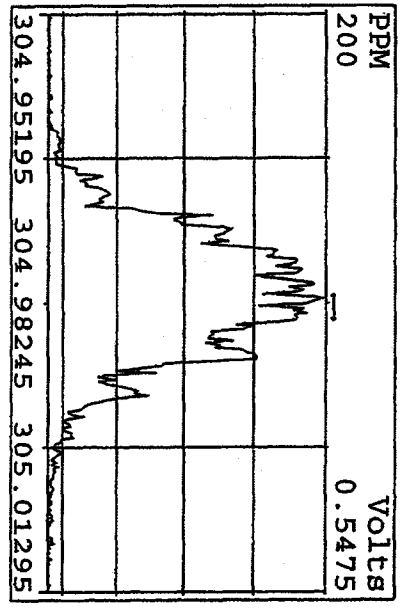
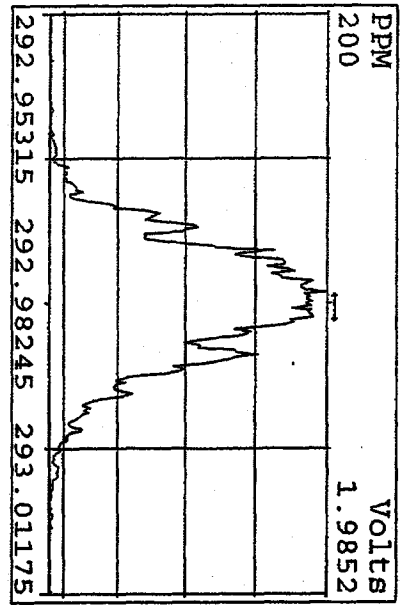
Sample text: ST1021E :CS5 09DXN240

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	160493400	0.77 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	321050000	0.84 y	15:39	2.000	100.00	n
2,3,7,8-TCDF	712667000	0.71 y	15:40	1.110	200.00	n
13C-2,3,7,8-TCDD	155146500	0.74 y	14:17	0.967	100.00	n
2,3,7,8-TCDD	452444000	0.87 y	14:18	1.458	200.00	n
37Cl-2,3,7,8-TCDD	861636000	1.00 y	14:18	2.777	200.00	n

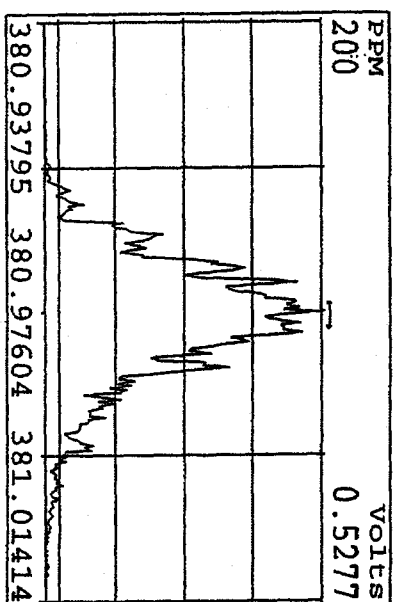
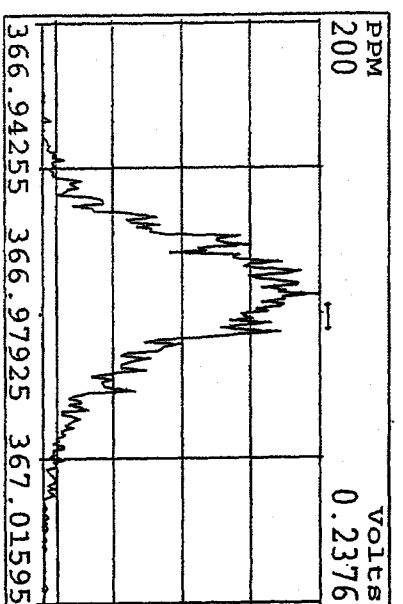
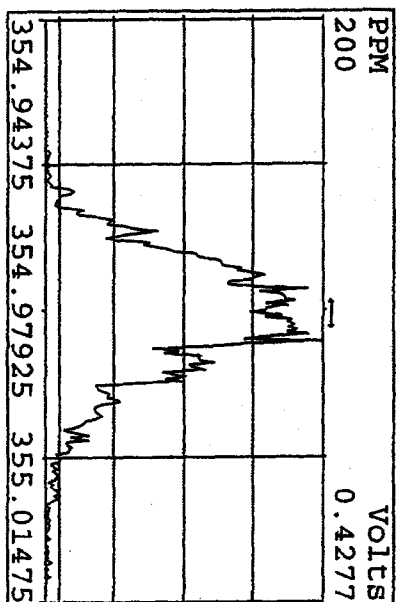
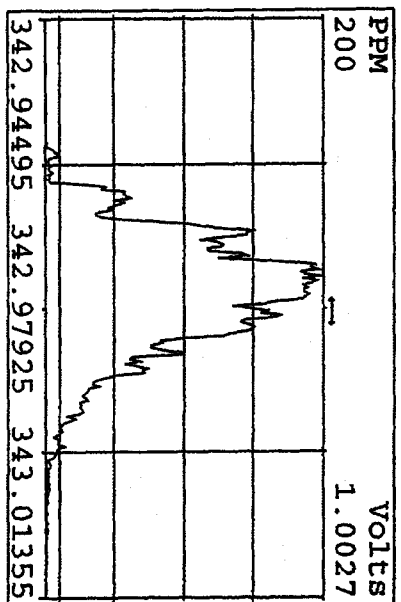
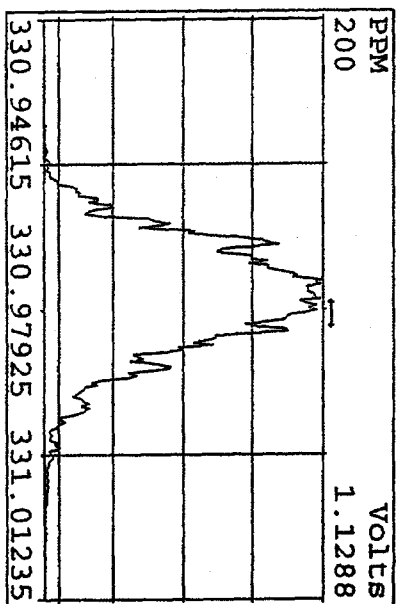
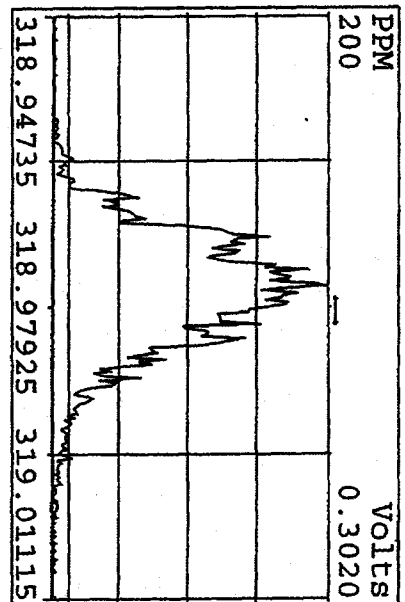
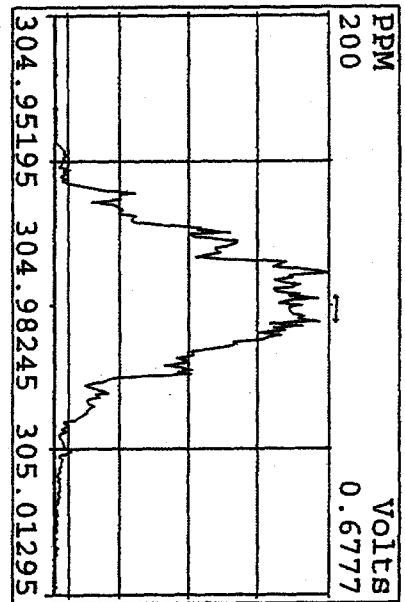
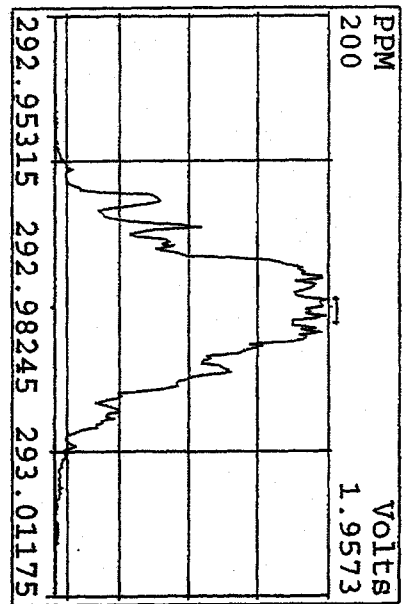
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
21OC095D2	1	ST1021	CS1 09DXN236		SENS.CHECK		1.000	
21OC095D2	2	CP1021	DB-225 CPSM 3732-01				1.000	
21OC095D2	3	ST1021A	CS1 09DXN236				1.000	
21OC095D2	4	ST1021B	CS2 09DXN237				1.000	
21OC095D2	5	ST1021C	CS3 09DXN123				1.000	
21OC095D2	6	ST1021D	CS4 09DXN311				1.000	
21OC095D2	7	ST1021E	CS5 09DXN240				1.000	
21OC095D2	8	ST1021F	2nd Source 09DXN300				1.000	
21OC095D2	9	SB1021	C-14 SOLVENT BLANK				1.000	
21OC095D2	10	CP1021A	DB-225 CPSM 3732-01				1.000	
21OC095D2	11	ST1021G	CS3 09DXN123				1.000	
21OC095D2	12	SB1021A	C-14 SOLVENT BLANK				1.000	
21OC095D2	13	LL3C6-1-AC	G9J060234-1	20	8290/WATER	79	0.576	L
21OC095D2	14	LL3DH-1-AC	G9J060234-2	20	8290/WATER		0.564	L
21OC095D2	15	LLC4P-1-AC	G9I230350-1	20	8290/SOLID	84	10.170	g
21OC095D2	16	LLC4R-1-AC	G9I230350-3	20	8290/SOLID		10.010	g
21OC095D2	17	LLC4T-1-AC	G9I230350-4	20	8290/SOLID		10.020	g
21OC095D2	18	SB1021A	C-14 SOLVENT BLANK				1.000	
21OC095D2	19	ST1021H	CS3 09DXN123				1.000	
21OC095D2	20						1.000	
21OC095D2	21						1.000	
21OC095D2	22						1.000	
21OC095D2	23		KAS/KSS 9-21-09				1.000	
21OC095D2	24						1.000	
21OC095D2	25						1.000	
21OC095D2	26						1.000	

*logfile vid
10/22/09
KSS*

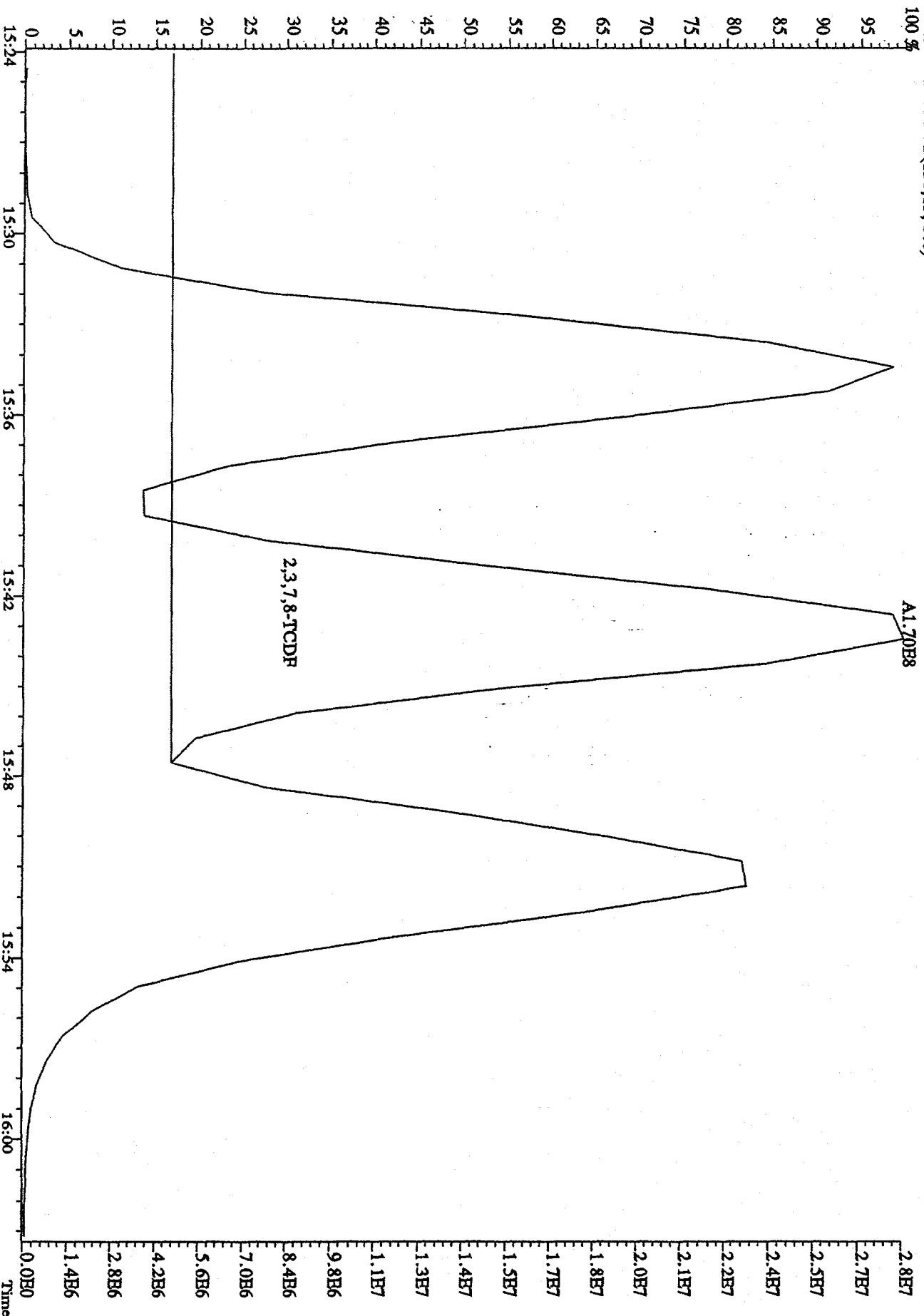
Peak Locate Examination: 21-OCT-2009: 21:25 File: 210C095D2
 Experiment: DB225 Function: 1 Reference: PFK



Peak Locate Examination: 22-OCT-2009:09:19 File: 210C095D2ENDRES
 Experiment: DB225 Function: 1 Reference: PFK



File:21OC095D2 #1-1242 Acq:21-OCT-2009 22:03:00 GC RI+ Voltage SIR 70SE
 Sample#2 Text:CP1021 :DB-225 CFSM 3732-01 Exp:DB225
 303.9016 S:2 BSUB(128,15,-3.0)



Run text: ST1021F Sample text: ST1021F :2nd Source 09DXN300
 Run #15 Filename: 21OC095D2 S: 8 I: 1 Results: 21OC095D2DB225
 Acquired: 22-OCT-09 01:45:11 Processed: 22-OCT-09 12:39:59
 Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	136613028	0.82 y	14:31	-	89.83	-	-	n
13C-2,3,7,8-TCDF	277440664	0.86 y	15:39	1.98	2056.05	12.22	102.8	n
2,3,7,8-TCDF	30151783	0.72 y	15:40	1.18	184.23	3.03	-	n
13C-2,3,7,8-TCDD	128036352	0.75 y	14:16	0.97	1930.61	14.32	96.5	n
2,3,7,8-TCDD	18883674	0.87 y	14:17	1.51	195.85	5.01	-	n
37Cl-2,3,7,8-TCDD	35891704	1.00 y	14:17	2.70	194.28	4.88	97.1	n

Initial Calibration Checklist Dioxin Methods

ICAL ID (DB225, DB225AIR) 0104105DZ

Method ID 8290, 1613B, 23, 0023A, TO9 Date Scanned _____

Column ID DB225 Instrument ID 502

STD ID's ST0104(D, E, F, H, G) STD Solution 09DXN(422, 423, 425, 426, 456)

GC Program DB225 Multiplier Setting 820

Analyzed By A.M. Date Analyzed 1/4/10

Prepared By M.G. Date Prepared 1/5/10

Reviewed By MES Date Reviewed 1/5/10

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?*	✓ (1)	(1)
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	✓	✓

COMMENTS: (1) CRS failed (26.2%) + (26.9%) ∴ use for TCDF confirmation only. Do not report CRS using this ICV.
ICAL 053 1, 2, 3, 4, 1000 RT= 17:31

*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: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

ST0104D : CS-1 09DXN422 ST0104E : CS-2 09DXN423 ST0104F : CS-3 09DXN425
 ST0104G : CS-5 09DXN456 ST0104H : CS-4 09DXN426

04JA10B5D204JA10B5D204JA10B5D204JA10B5D204JA10B5D204JA10B5D2

Name	Mean	S. D.	%RSD	S3 RRF1	S4 RRF2	S5 RRF3	S6 RRF4	S7 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.664	0.062	3.75 %	1.65	1.58	1.73	1.72	1.64
2,3,7,8-TCDF	1.014	0.078	7.69 %	1.14	0.94	0.97	1.01	1.00
13C-2,3,7,8-TCDD	0.951	0.045	4.78 %	0.98	0.90	0.99	0.98	0.91
2,3,7,8-TCDD	1.183	0.038	3.23 %	1.19	1.21	1.12	1.18	1.22
37Cl-2,3,7,8-TCDD	2.068	0.541	26.2 %	2.60	2.20	1.15	2.23	2.16

Run #1 Filename 04JA10B5D2 S: 3 I: 1
Acquired: 4-JAN-10 22:54:06 Processed: 5-JAN-10 07:29:29
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

Comments:

Sample text: ST0104D :CS-1 09DXN422

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	251267000	0.74 y	14:22	-	100.00	n
13C-2,3,7,8-TCDF	413691000	0.80 y	15:29	1.646	100.00	n
2,3,7,8-TCDF	2044403	0.94 n	15:30	0.988	0.50	n
13C-2,3,7,8-TCDD	246414000	0.74 y	14:09	0.981	100.00	n
2,3,7,8-TCDD	1464885	0.85 y	14:11	1.189	0.50	n
37Cl-2,3,7,8-TCDD	3270460	1.00 y	14:10	2.603	0.50	n

Run #1 Filename 04JA10B5D2 S: 3 I: 1
Acquired: 4-JAN-10 22:54:06 Processed: 5-JAN-10 07:29:29
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2
Comments:

Sample text: ST0104D :CS-1 09DXN422

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	251267000	0.74 y	14:22	-	100.00	n
13C-2,3,7,8-TCDF	413691000	0.80 y	15:29	1.646	100.00	n
2,3,7,8-TCDF	2366310	0.82 y	15:30	1.144	0.50	y
13C-2,3,7,8-TCDD	246414000	0.74 y	14:09	0.981	100.00	n
2,3,7,8-TCDD	1464885	0.85 y	14:11	1.189	0.50	n
37Cl-2,3,7,8-TCDD	3270460	1.00 y	14:10	2.603	0.50	n

Run #2 Filename 04JA10B5D2 S: 4 I: 1
Acquired: 4-JAN-10 23:31:09 Processed: 5-JAN-10 07:29:30
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

Comments:

Sample text: ST0104E :CS-2 09DXN423

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	266401000	0.74 y	14:21	-	100.00	n
13C-2,3,7,8-TCDF	420343000	0.82 y	15:28	1.578	100.00	n
2,3,7,8-TCDF	7934710	0.83 y	15:29	0.944	2.00	n
13C-2,3,7,8-TCDD	239289000	0.76 y	14:08	0.898	100.00	n
2,3,7,8-TCDD	5783460	0.83 y	14:09	1.208	2.00	n
37C1-2,3,7,8-TCDD	11695680	1.00 y	14:09	2.195	2.00	n

Run #3 Filename O4JA10B5D2 S: 5 I: 1
Acquired: 5-JAN-10 00:08:17 Processed: 5-JAN-10 07:29:30
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

Comments:

Sample text: ST0104F :CS-3 09DXN425

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	122886700	0.75 y	14:21	-	100.00	n
13C-2,3,7,8-TCDF	212032300	0.81 y	15:28	1.725	100.00	n
2,3,7,8-TCDF	20479400	0.82 y	15:29	0.966	10.00	n
13C-2,3,7,8-TCDD	121954600	0.77 y	14:08	0.992	100.00	n
2,3,7,8-TCDD	13669350	0.79 y	14:09	1.121	10.00	n
37Cl-2,3,7,8-TCDD	14173780	1.00 y	14:09	1.153	10.00	n

Run #4 Filename 04JA10B5D2 S: 6 I: 1
Acquired: 5-JAN-10 00:45:19 Processed: 5-JAN-10 07:29:30
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

Comments:

Sample text: ST0104G :CS-5 09DXN456

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	175057200	0.77 y	14:22	-	100.00	n
13C-2,3,7,8-TCDF	301911000	0.81 y	15:29	1.725	100.00	n
2,3,7,8-TCDF	611201000	0.80 y	15:30	1.012	200.00	n
13C-2,3,7,8-TCDD	171409900	0.74 y	14:09	0.979	100.00	n
2,3,7,8-TCDD	403135000	0.80 y	14:11	1.176	200.00	n
37Cl-2,3,7,8-TCDD	779324000	1.00 y	14:10	2.226	200.00	n

Run #5 Filename 04JA10B5D2 S: 7 I: 1
Acquired: 5-JAN-10 01:22:21 Processed: 5-JAN-10 07:29:31
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

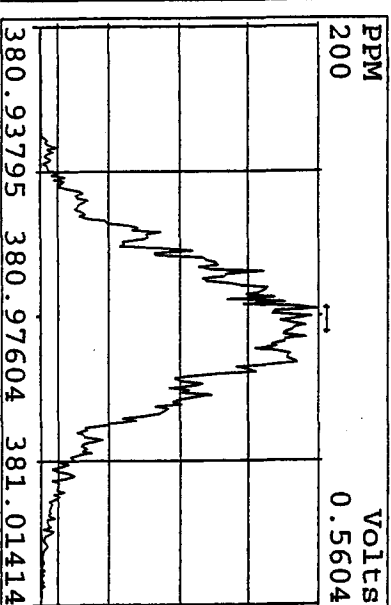
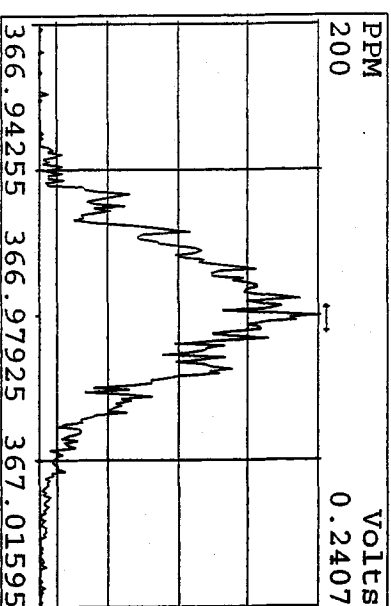
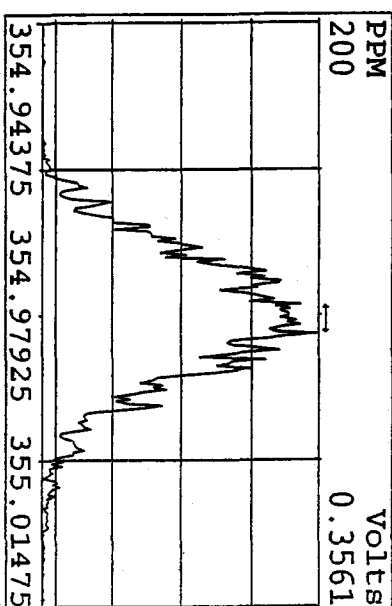
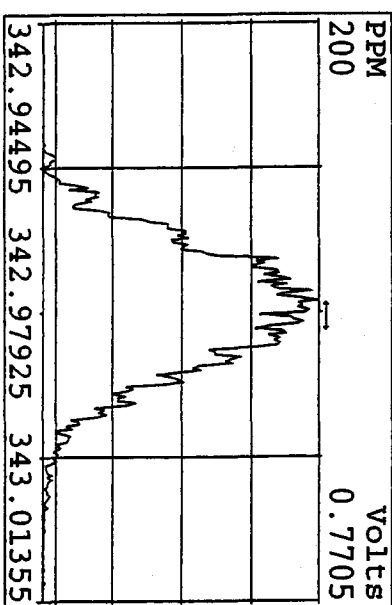
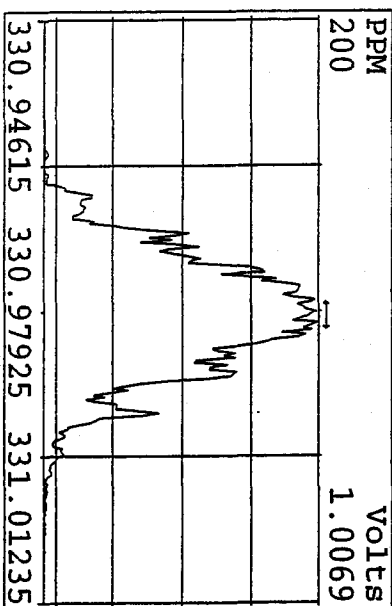
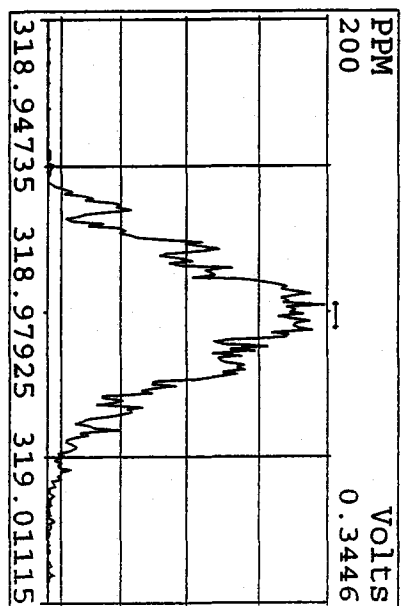
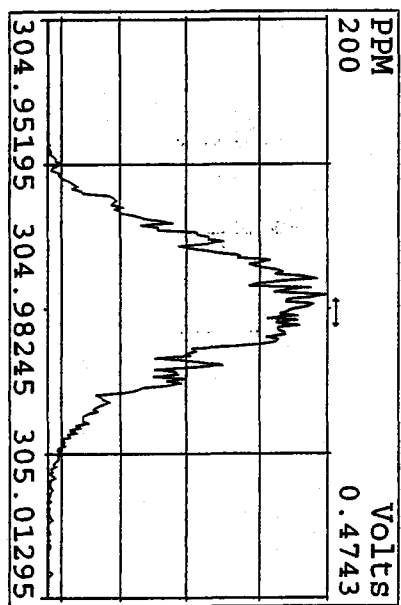
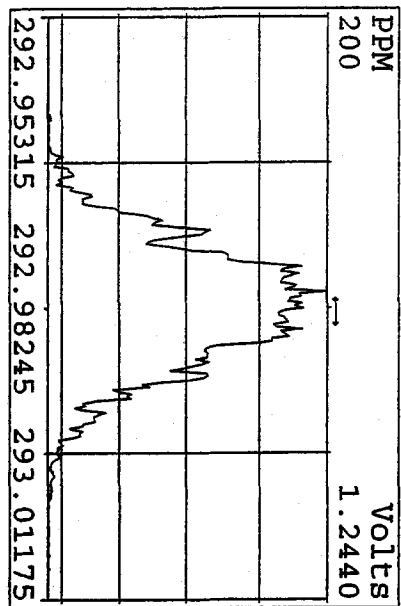
Comments:

Sample text: ST0104H :CS-4 09DXN426

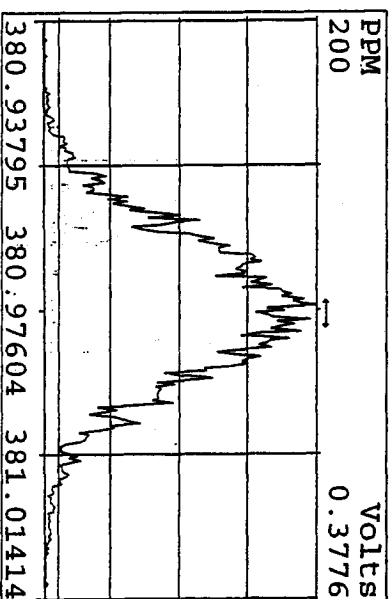
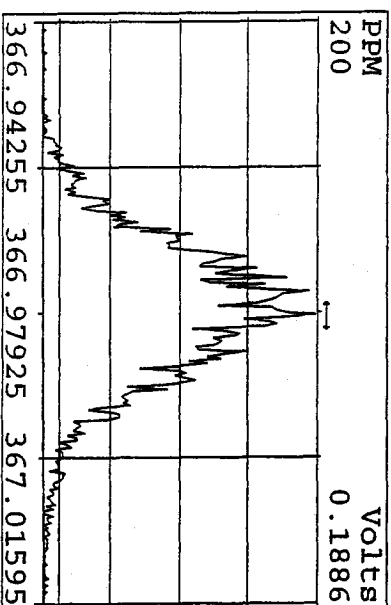
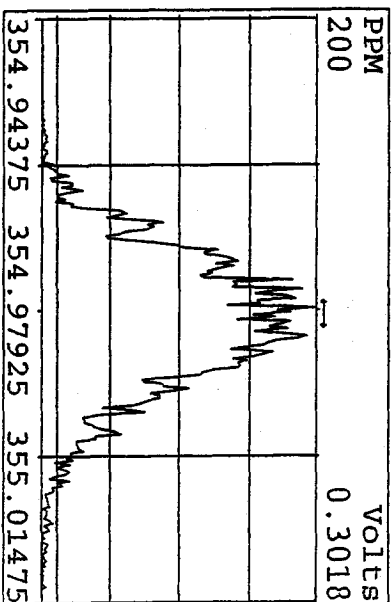
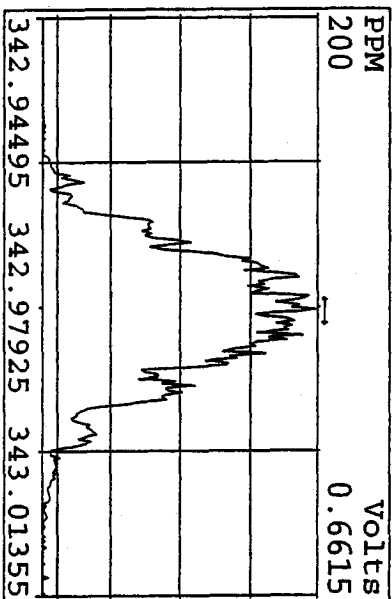
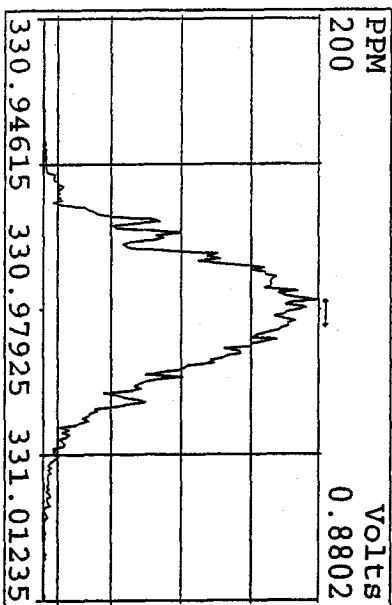
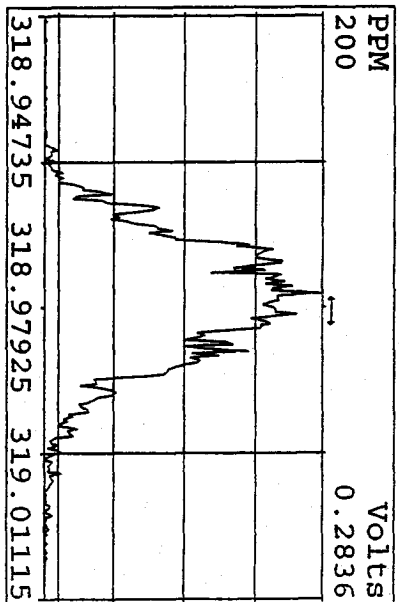
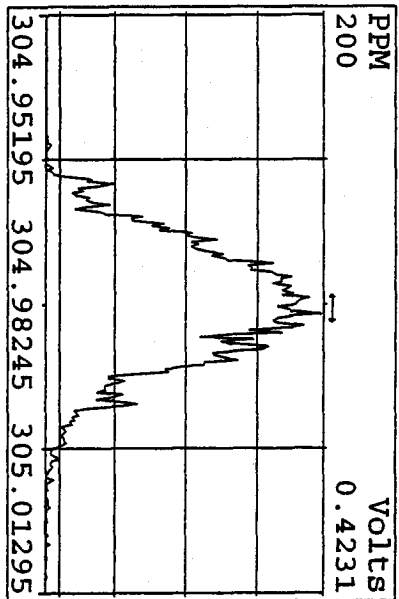
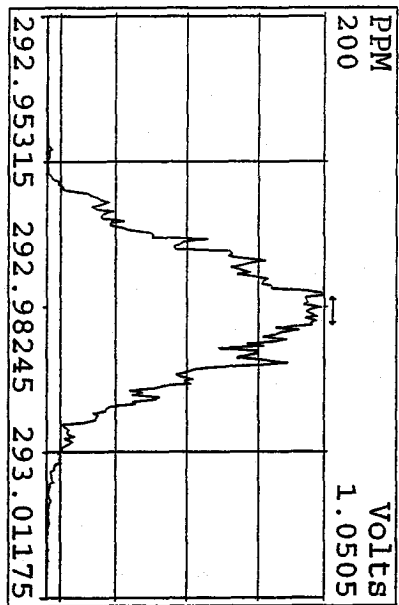
Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	266035000	0.75 y	14:22	-	100.00	n
13C-2,3,7,8-TCDF	437272000	0.82 y	15:29	1.644	100.00	n
2,3,7,8-TCDF	175195400	0.81 y	15:30	1.002	40.00	n
13C-2,3,7,8-TCDD	240856000	0.75 y	14:09	0.905	100.00	n
2,3,7,8-TCDD	117378400	0.80 y	14:10	1.218	40.00	n
37C1-2,3,7,8-TCDD	230058000	1.00 y	14:10	2.162	40.00	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
04JA10B5D2	1	CP0104B	DB225 CPSM 3732-01				1.000	
04JA10B5D2	2	CP0104C	DB225 CPSM 3732-01				1.000	
04JA10B5D2	3	ST0104D	CS-1 09DXN422				1.000	
04JA10B5D2	4	ST0104E	CS-2 09DXN423				1.000	
04JA10B5D2	5	ST0104F	CS-3 09DXN425				1.000	
04JA10B5D2	6	ST0104G	CS-5 09DXN456				1.000	
04JA10B5D2	7	ST0104H	CS-4 09DXN426				1.000	
04JA10B5D2	8	ST0104I	2nd Source 09DXN449				1.000	
04JA10B5D2	9						1.000	
04JA10B5D2	10						1.000	
04JA10B5D2	11						1.000	
04JA10B5D2	12						1.000	
04JA10B5D2	13						1.000	
04JA10B5D2	14		AM 01-04-10				1.000	
04JA10B5D2	15						1.000	

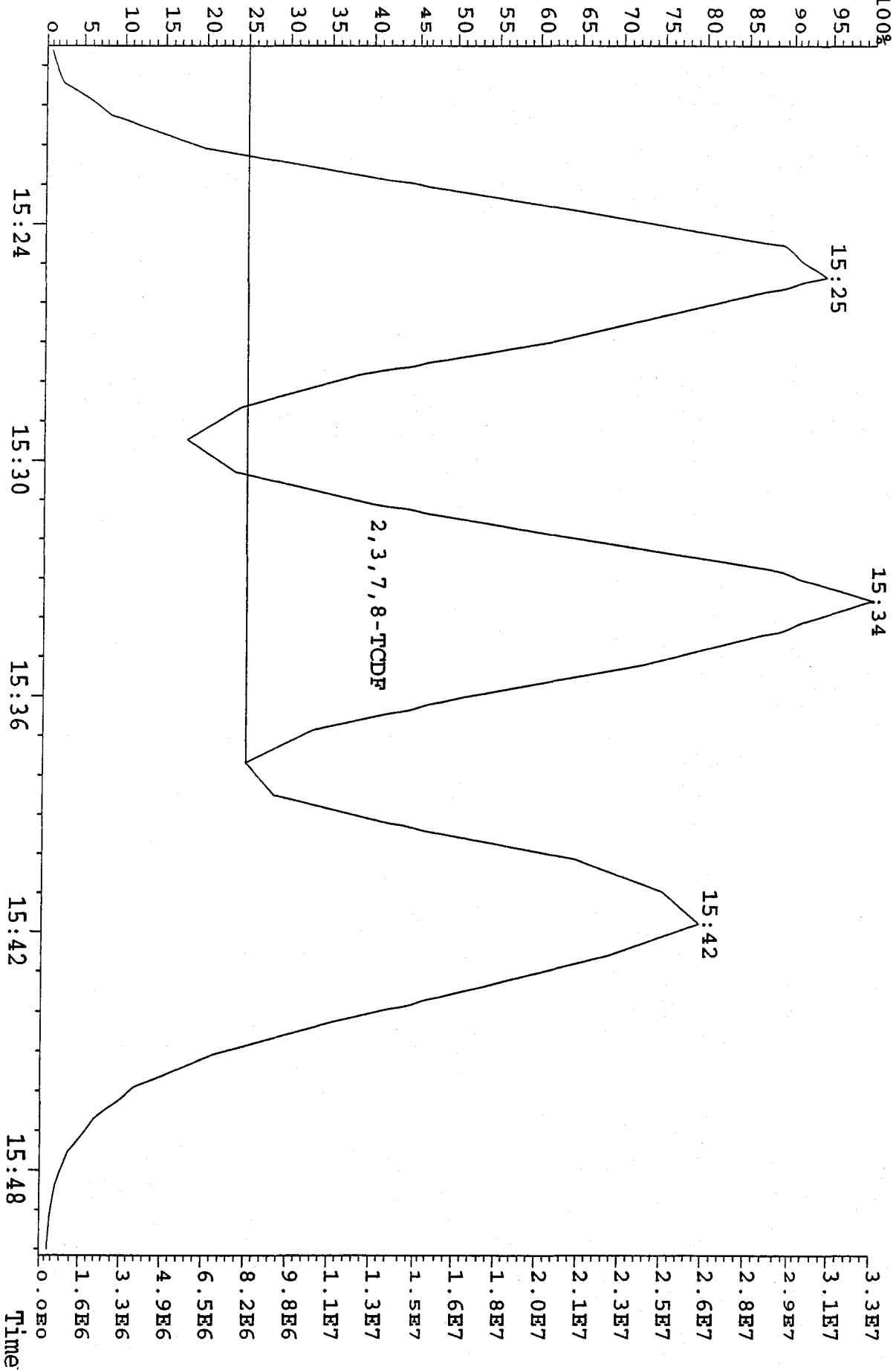
Peak Locate Examination: 4-JAN-2010:21:33 File:04JA10B5D2
 Experiment:DB225 Function:1 Reference:PK



Peak Locate Examination: 5-JAN-2010:07:37 File:ENDRES04JA10B5D2
 Experiment:DB225 Function:1 Reference:PRK



File: 04JA10B5D2 #1-1242 Acq: 4-JAN-2010 22:17:05 GC EI+ Voltage SIR 70SE
 303.9016 S:2 BSUB(128,15,-3.0) Exp:DB225 Noise:3300
 Sample Text:CP0104C :DB225 CPSM 3732-01



Run text: ST0104I Sample text: ST0104I :2nd Source 09DXN449
Run #6 Filename: 04JA10B5D2 S: 8 I: 1 Results: 04JA10B5D2DB225
Acquired: 5-JAN-10 01:59:23 Processed: 5-JAN-10 07:32:10
Run: 04JA10B5D2 Analyte: DB225 Cal: DB2250104105D2
Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	231493400	0.75 y	14:21	-	107.01	-	-	n
13C-2,3,7,8-TCDF	411344000	0.79 y	15:29	1.66	2136.22	5.10	106.8	n
2,3,7,8-TCDF	39223200	0.79 y	15:30	1.01	188.17	2.13	-	n
13C-2,3,7,8-TCDD	223989400	0.75 y	14:08	0.95	2034.51	6.92	101.7	n
2,3,7,8-TCDD	26173300	0.82 y	14:09	1.18	197.63	2.54	-	n
37Cl-2,3,7,8-TCDD	54459400	1.00 y	14:09	2.07	227.53	1.20	113.8	n

Daily Calibration Checklist
Dioxin Methods

Method ID 8290
 Column ID DB5
 STD ID ST0104, ST0104A
 Analyzed by M.G.
 Std. Pkg. By M.G.
 Std. Pkg. Reviewed By JRS

Associated ICAL 8290123109105
 Instrument ID 105
 STD Solution 09DXN425
 Date Analyzed 1/4/10
 Date Std. Pkg. Assembled 1/5/10
 Date Std. Pkg. Reviewed 1/5/10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?*	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (for 1613B only)	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: ST0104

File text: ST0104 :CS3 09DXN425

Run #6 Filename 04JA10A1D5 S: 1

I: 1

Acquired: 4-JAN-10 14:22:14

Processed: 4-JAN-10 17:52:25

Run: 04JA10A1D5 Analyte: 8290

Cal: 82901231091D5

Results: 04JA10A1D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	280509000	0.79 y	18:48	-	100.00	-	n
13C-2,3,7,8-TCDF	393555000	0.77 y	18:14	1.40	100.00	-10.4	n
2,3,7,8-TCDF	327111100	0.77 y	18:15	0.83	10.00	-3.3	n
Total TCDF	33091995	0.55 n	17:18	0.83	10.00	-3.3	n
13C-2,3,7,8-TCDD	277768000	0.80 y	19:00	0.99	100.00	-0.3	n
2,3,7,8-TCDD	23959000	0.77 y	19:01	0.86	10.00	-7.6	n
Total TCDD	24036981	1.34 n	17:52	0.86	10.00	-7.6	n
37Cl-2,3,7,8-TCDD	57146200	1.00 y	19:01	2.04	10.00	-8.2	n
13C-1,2,3,7,8-PeCDF	272612000	1.65 y	23:41	0.97	100.00	-9.4	n
1,2,3,7,8-PeCDF	143725300	1.60 y	23:43	1.05	50.00	5.4	n
2,3,4,7,8-PeCDF	133002900	1.57 y	25:09	0.98	50.00	4.0	n
Total F2 PeCDF	278531326	2.02 n	22:13	1.02	100.00	4.7	n
Total F1 PeCDF	158894	0.26 n	16:08	1.02	100.00	4.7	n
13C-1,2,3,7,8-PeCDD	177387600	1.66 y	25:54	0.63	100.00	-5.1	n
1,2,3,7,8-PeCDD	78532700	1.61 y	25:57	0.89	50.00	-4.7	n
Total PeCDD	78532700	1.61 y	25:57	0.89	50.00	-4.7	n
13C-1,2,3,7,8,9-HxCDD	210580100	1.25 y	32:54	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	184389900	0.53 y	31:31	0.88	100.00	-1.9	n
1,2,3,4,7,8-HxCDF	114973500	1.24 y	31:32	1.25	50.00	4.0	n
1,2,3,6,7,8-HxCDF	147971300	1.26 y	31:41	1.60	50.00	17.0	n
2,3,4,6,7,8-HxCDF	126493700	1.27 y	32:21	1.37	50.00	10.5	n
1,2,3,7,8,9-HxCDF	113974800	1.25 y	33:07	1.24	50.00	-6.8	n
Total HxCDF	503413300	1.24 y	31:32	1.37	200.00	6.3	n
13C-1,2,3,6,7,8-HxCDD	181249500	1.28 y	32:36	0.86	100.00	17.6	n
1,2,3,4,7,8-HxCDD	75662600	1.29 y	32:31	0.83	50.00	-13.9	n
1,2,3,6,7,8-HxCDD	101154000	1.33 y	32:37	1.12	50.00	5.5	n
1,2,3,7,8,9-HxCDD	104826500	1.26 y	32:55	1.16	50.00	-9.3	n
Total HxCDD	282365724	1.29 y	32:31	1.04	150.00	-5.9	n
13C-1,2,3,4,6,7,8-HpCDF	180705700	0.43 y	34:39	0.86	100.00	-0.2	n
1,2,3,4,6,7,8-HpCDF	119935400	1.05 y	34:39	1.33	50.00	3.2	n
1,2,3,4,7,8,9-HpCDF	93377100	1.04 y	35:56	1.03	50.00	-9.0	n
Total HpCDF	213312500	1.05 y	34:39	1.18	100.00	-2.5	n
13C-1,2,3,4,6,7,8-HpCDD	150406500	1.06 y	35:34	0.71	100.00	-5.0	n
1,2,3,4,6,7,8-HpCDD	74587700	1.10 y	35:35	0.99	50.00	-0.6	n
Total HpCDD	74924139	1.53 n	34:56	0.99	50.00	-0.6	n
13C-OCDD	199272800	0.91 y	38:21	0.47	200.00	-16.2	n
OCDF	147488100	0.90 y	38:29	1.48	100.00	3.0	n
OCDD	110569300	0.88 y	38:22	1.11	100.00	0.0	n

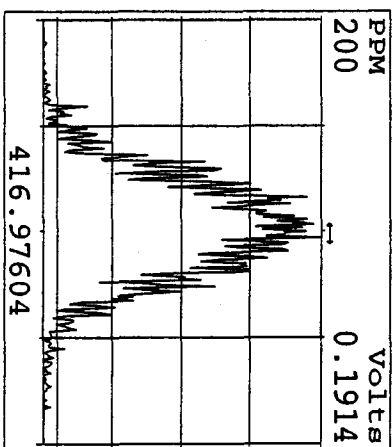
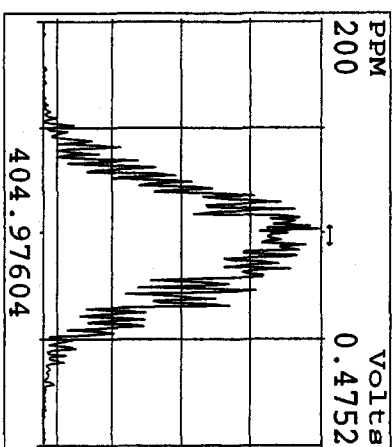
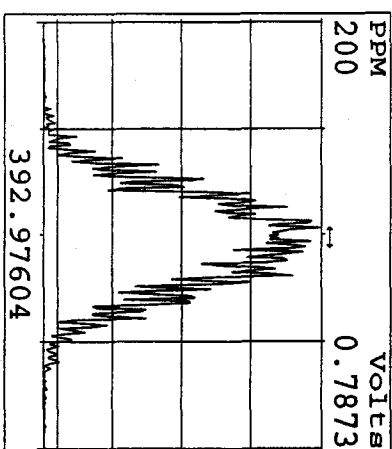
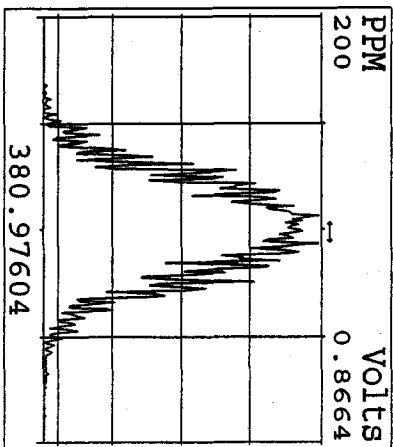
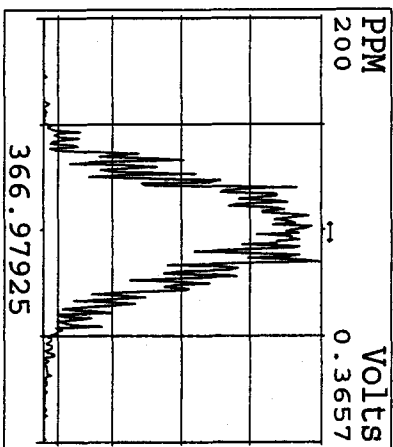
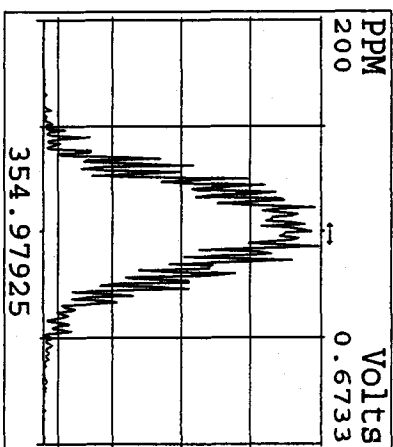
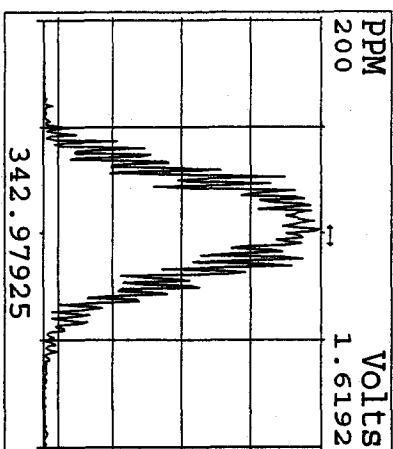
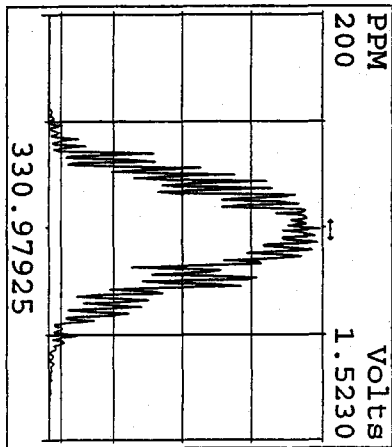
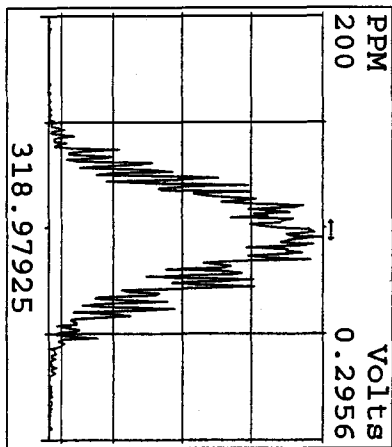
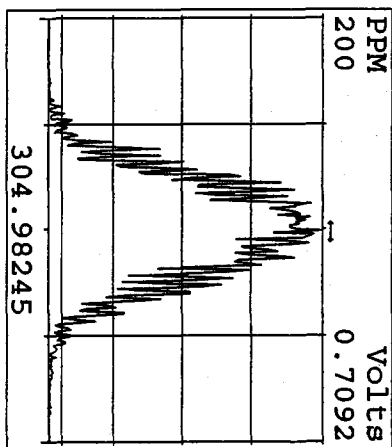
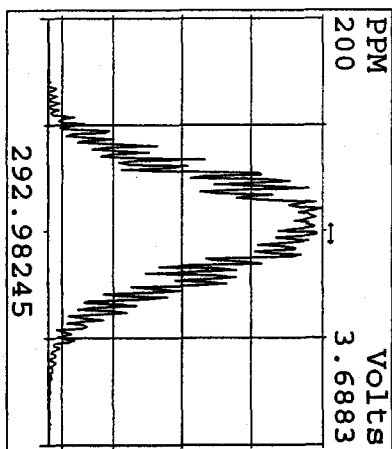
Run text: ST0104A File text: ST0104A :CS3 09DXN425
 Run #15 Filename 04JA10A1D5 S: 12 I: 1
 Acquired: 4-JAN-10 22:02:37 Processed: 5-JAN-10 07:52:09
 Run: 04JA10A1D5 Analyte: 8290 Cal: 82901231091D5 Results: 04JA10A1D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	305540000	0.79 y	18:42	-	100.00	-	n
13C-2,3,7,8-TCDF	428953000	0.76 y	18:09	1.40	100.00	-10.4	n
2,3,7,8-TCDF	32770100	0.72 y	18:10	0.76	10.00	-11.2	n
Total TCDF	33075687	1.34 n	17:12	0.76	10.00	-11.2	n
13C-2,3,7,8-TCDD	315113000	0.80 y	18:54	1.03	100.00	3.8	n
2,3,7,8-TCDD	27024800	0.79 y	18:55	0.86	10.00	-8.2	n
Total TCDD	27324095	2.73 n	15:56	0.86	10.00	-8.2	n
37Cl-2,3,7,8-TCDD	67269200	1.00 y	18:55	2.20	10.00	-0.7	n
13C-1,2,3,7,8-PeCDF	304342000	1.59 y	23:33	1.00	100.00	-7.2	n
1,2,3,7,8-PeCDF	145652400	1.57 y	23:34	0.96	50.00	-4.3	n
2,3,4,7,8-PeCDF	137197300	1.57 y	24:59	0.90	50.00	-3.9	n
Total F2 PeCDF	285598094	1.57 y	23:34	0.93	100.00	-4.1	n
Total F1 PeCDF	237831	0.35 n	16:04	0.93	100.00	-4.1	n
13C-1,2,3,7,8-PeCDD	199454200	1.63 y	25:44	0.65	100.00	-2.0	n
1,2,3,7,8-PeCDD	94968500	1.58 y	25:46	0.95	50.00	2.5	n
Total PeCDD	95227794	2.64 n	25:26	0.95	50.00	2.5	n
13C-1,2,3,7,8,9-HxCDD	248387000	1.28 y	32:51	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	209840500	0.51 y	31:27	0.84	100.00	-5.4	n
1,2,3,4,7,8-HxCDF	120488000	1.24 y	31:28	1.15	50.00	-4.2	n
1,2,3,6,7,8-HxCDF	146045500	1.24 y	31:36	1.39	50.00	1.5	n
2,3,4,6,7,8-HxCDF	131075000	1.22 y	32:17	1.25	50.00	0.6	n
1,2,3,7,8,9-HxCDF	123743200	1.26 y	33:04	1.18	50.00	-11.1	n
Total HxCDF	521351700	1.24 y	31:28	1.24	200.00	-3.3	n
13C-1,2,3,6,7,8-HxCDD	188597100	1.12 y	32:33	0.76	100.00	3.7	n
1,2,3,4,7,8-HxCDD	83754600	1.25 y	32:28	0.89	50.00	-8.4	n
1,2,3,6,7,8-HxCDD	109704700	1.28 y	32:34	1.16	50.00	9.9	n
1,2,3,7,8,9-HxCDD	115884100	1.26 y	32:52	1.23	50.00	-3.6	n
Total HxCDD	310561051	1.25 y	32:28	1.09	150.00	-0.7	n
13C-1,2,3,4,6,7,8-HpCDF	194080900	0.42 y	34:36	0.78	100.00	-9.2	n
1,2,3,4,6,7,8-HpCDF	125774000	1.05 y	34:37	1.30	50.00	0.7	n
1,2,3,4,7,8,9-HpCDF	103441600	1.03 y	35:54	1.07	50.00	-6.1	n
Total HpCDF	229215600	1.05 y	34:37	1.18	100.00	-2.5	n
13C-1,2,3,4,6,7,8-HpCDD	179032800	1.06 y	35:32	0.72	100.00	-4.2	n
1,2,3,4,6,7,8-HpCDD	86512500	1.05 y	35:33	0.97	50.00	-3.1	n
Total HpCDD	86808288	1.04 y	34:55	0.97	50.00	-3.1	n
13C-OCDD	274116000	0.90 y	38:20	0.55	200.00	-2.2	n
OCDF	181459700	0.90 y	38:28	1.32	100.00	-7.9	n
OCDD	146499300	0.88 y	38:20	1.07	100.00	-3.7	n

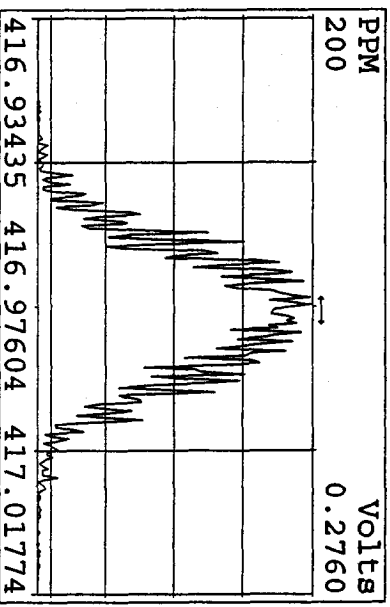
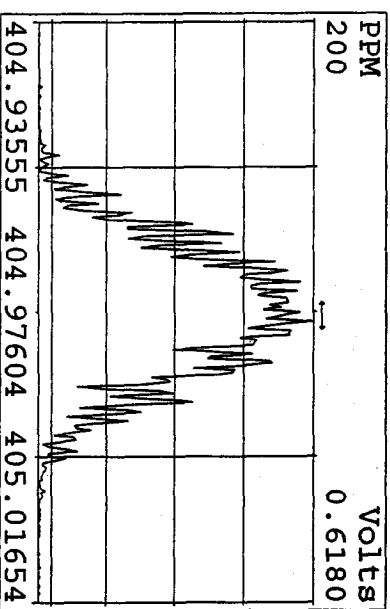
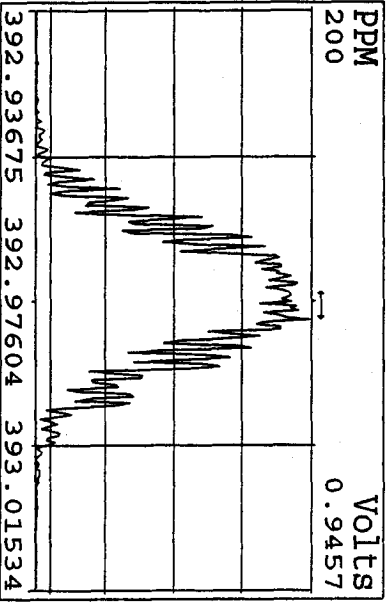
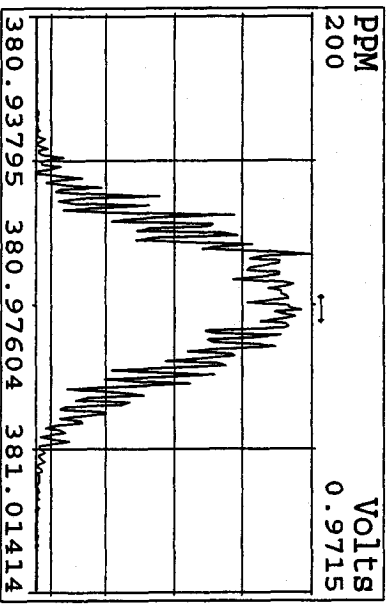
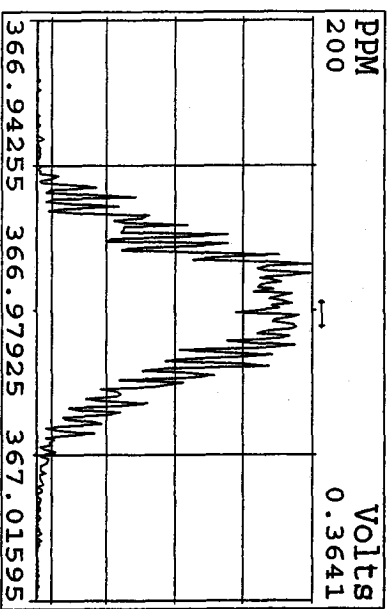
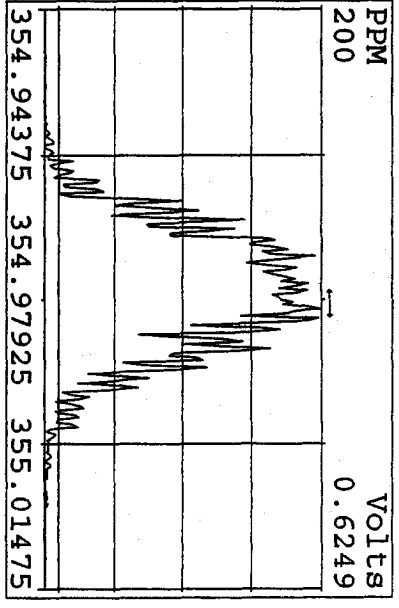
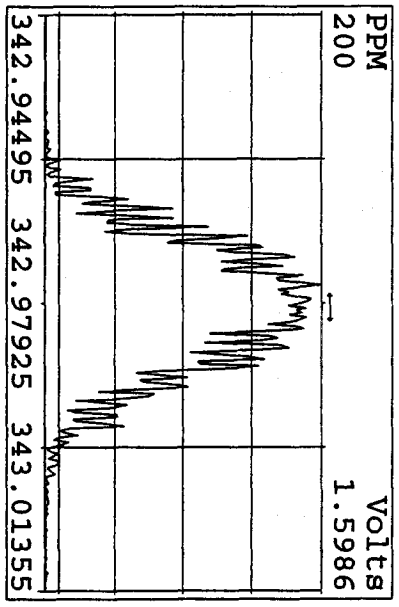
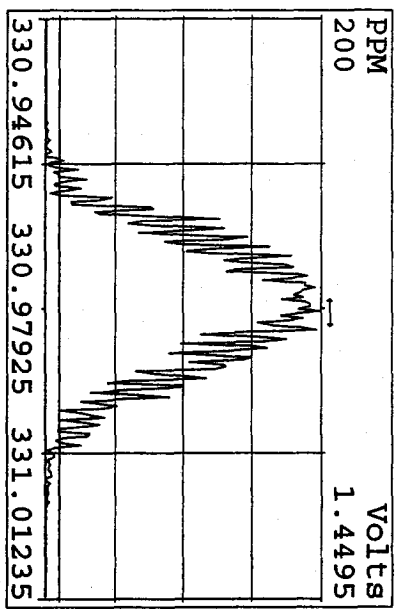
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04JA10A1D5	3	SB0104	Solvent Blank C-14				1.000	
04JA10A1D5	4	LRNEV-1-AA	G9L280000-386B	10	8290/SOLID	75	10.000	g
04JA10A1D5	5	LRNEV-1-AC	G9L280000-386C	10	8290/SOLID		10.000	g
04JA10A1D5	6	LQ2K8-3-AC	G9L120491-3RX	10	8290/SOLID		10.310	g
04JA10A1D5	7	LQ2LD-3-AC	G9L120491-7RX	10	8290/SOLID		10.100	g
04JA10A1D5	8	LQ2LE-3-AC	G9L120491-8RX	10	8290/SOLID		10.020	g
04JA10A1D5	9	LQ2LE-1-AF	G9L120491-8S	10	8290/SOLID		10.080	g
04JA10A1D5	10	LQ2LE-1-AG	G9L120491-8D	10	8290/SOLID		10.170	g
04JA10A1D5	11	SB0104A	Solvent Blank C-14				1.000	
04JA10A1D5	12	ST0104A	CS3 09DXN425				1.000	
04JA10A1D5	13						1.000	
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log file checked
1-04-10 am

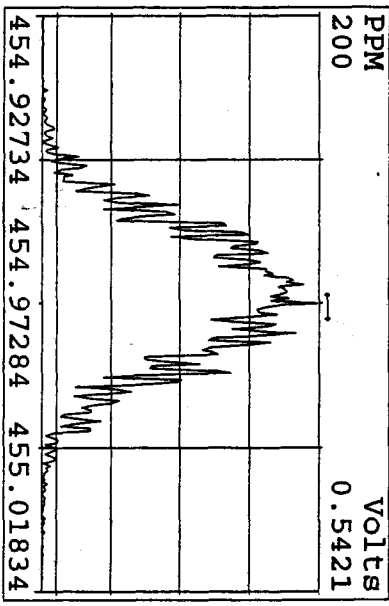
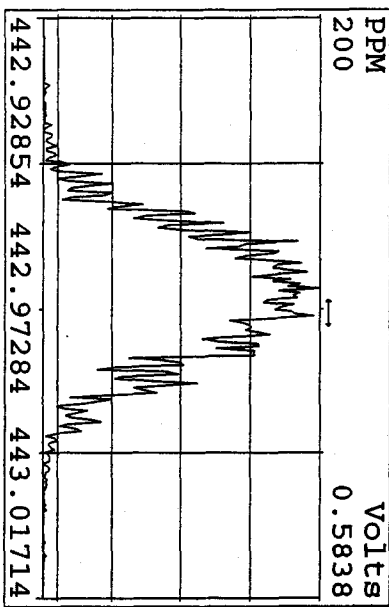
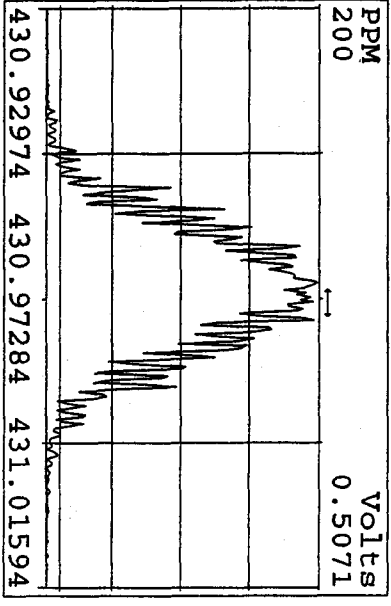
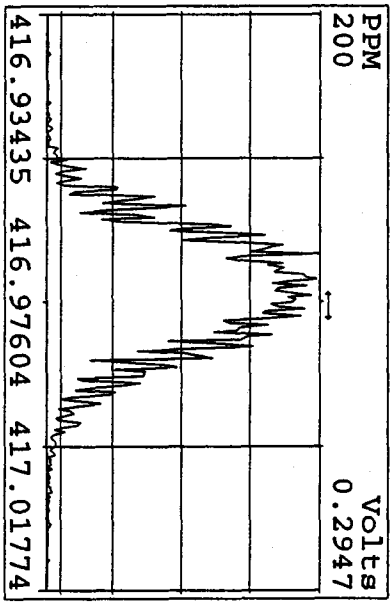
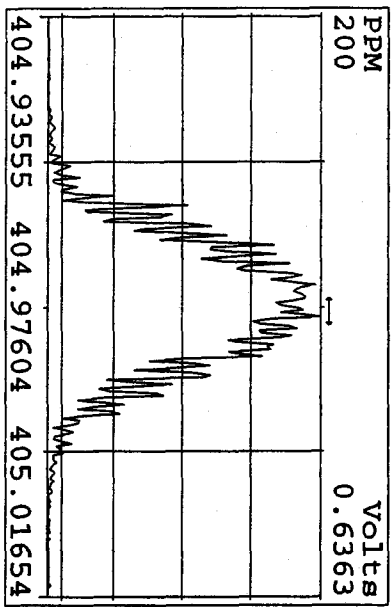
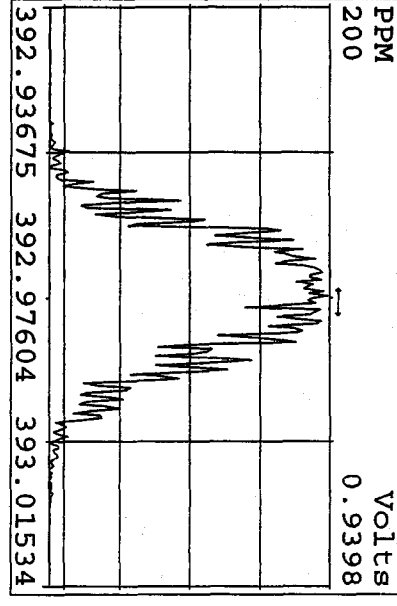
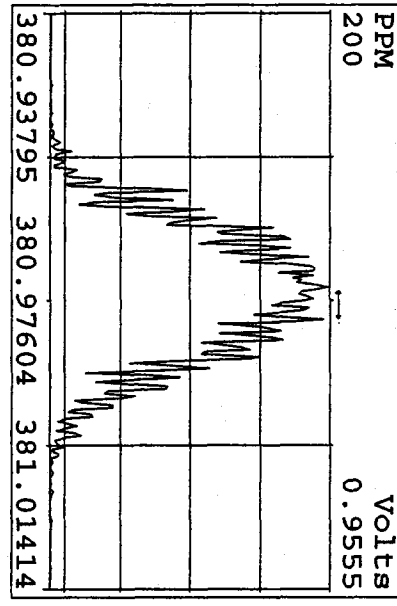
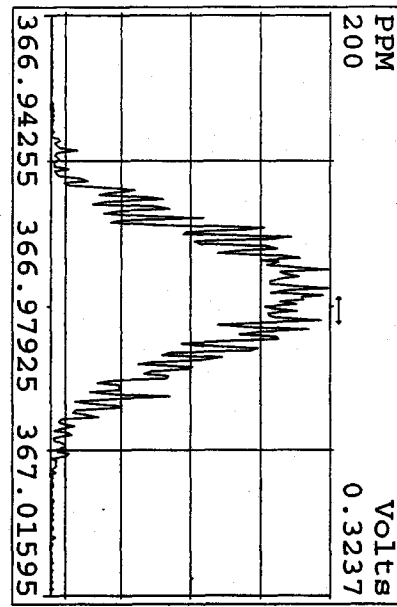
Peak Locate Examination: 4-JAN-2010:14:17 File:04JA10A1D5
Experiment:DIOXIN Function:1 Reference:PFK



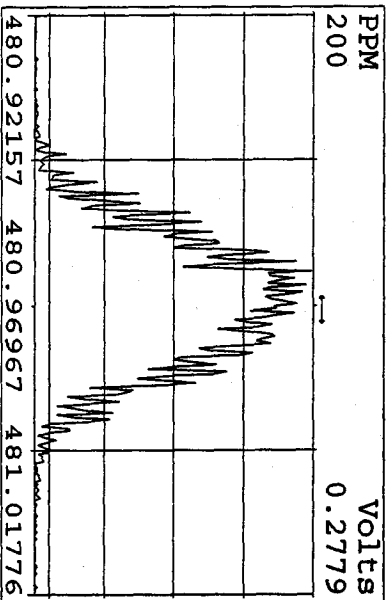
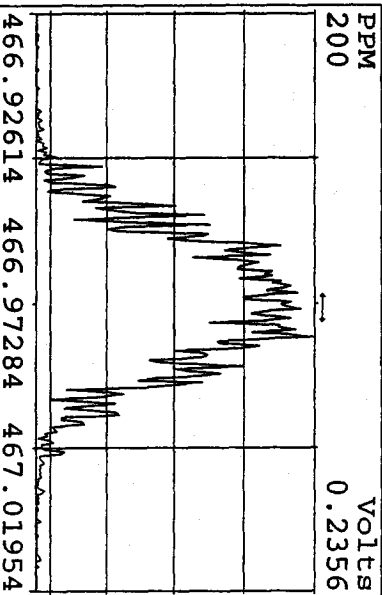
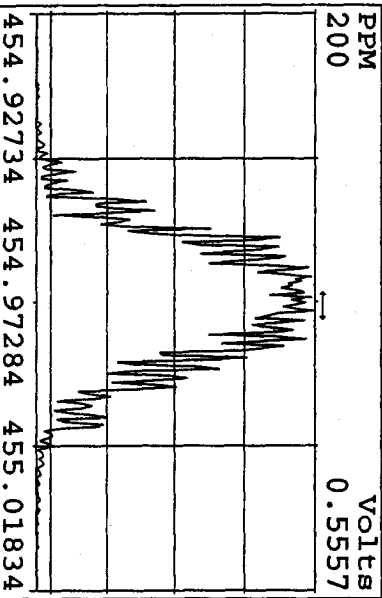
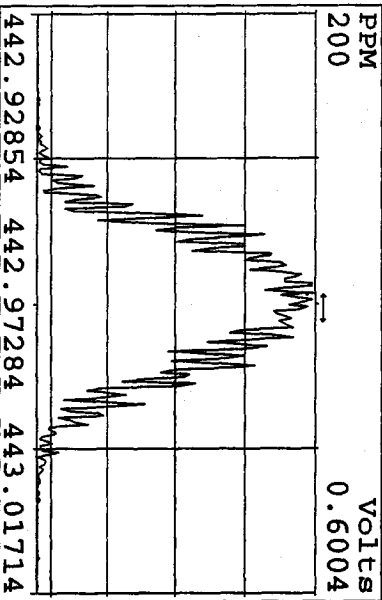
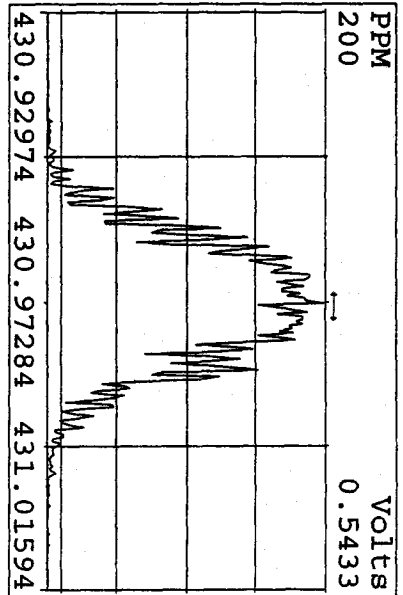
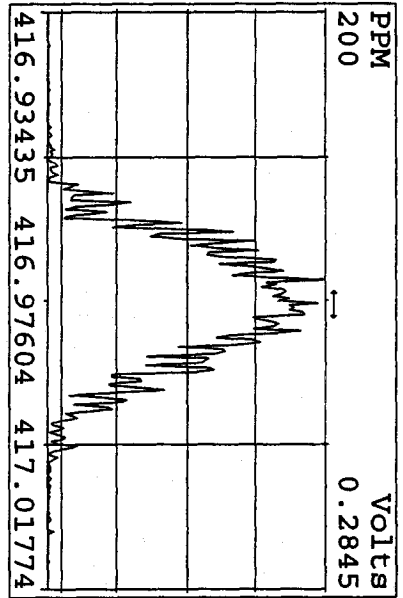
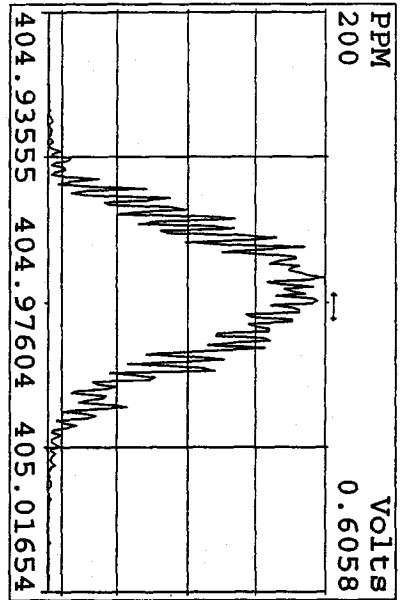
Peak Locate Examination: 4-JAN-2010:14:19 File:04JA10A1D5
 Experiment:DIOXIN Function:2 Reference:PFK



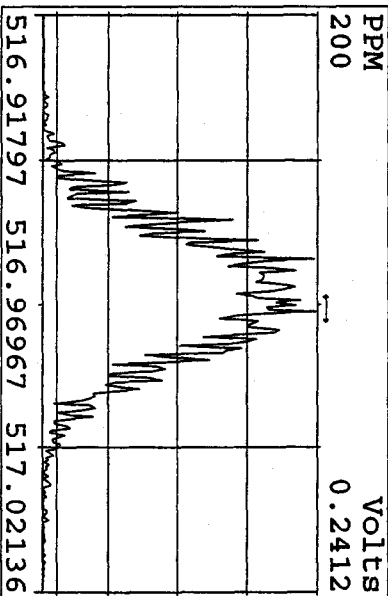
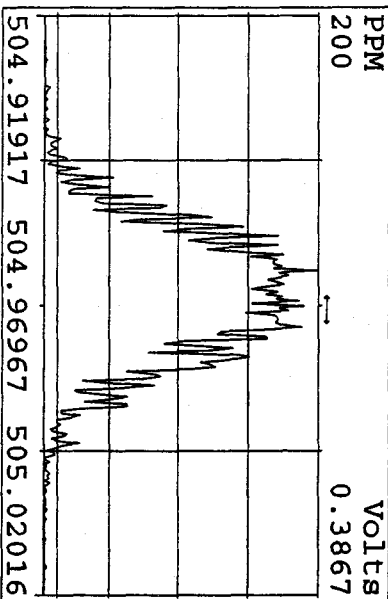
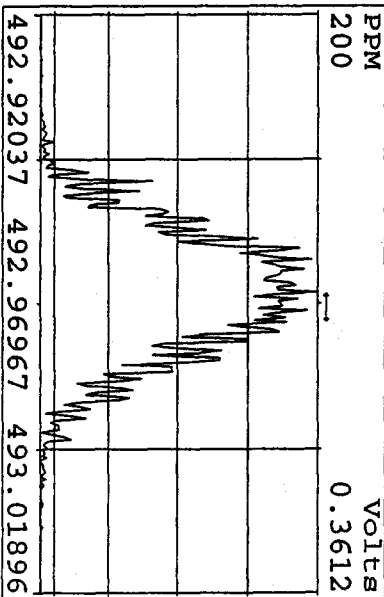
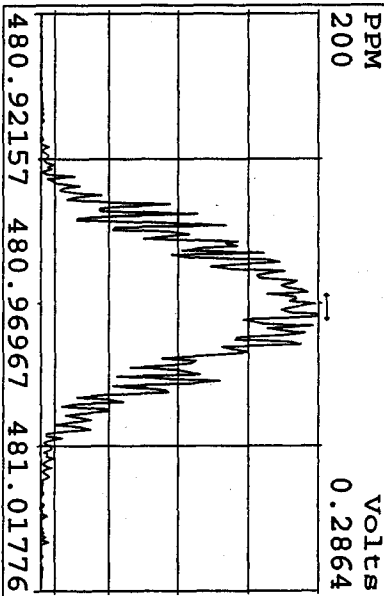
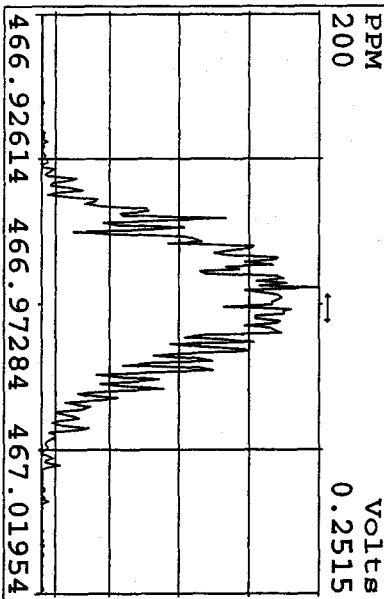
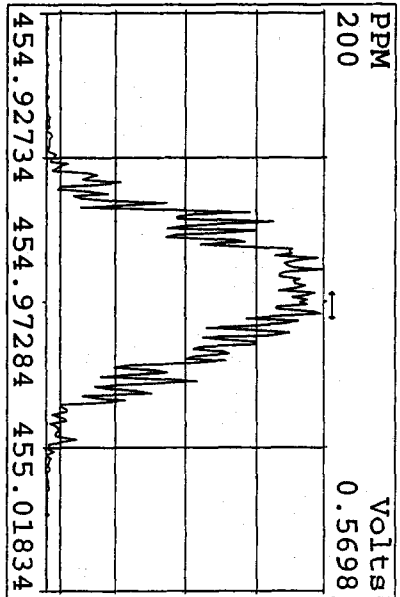
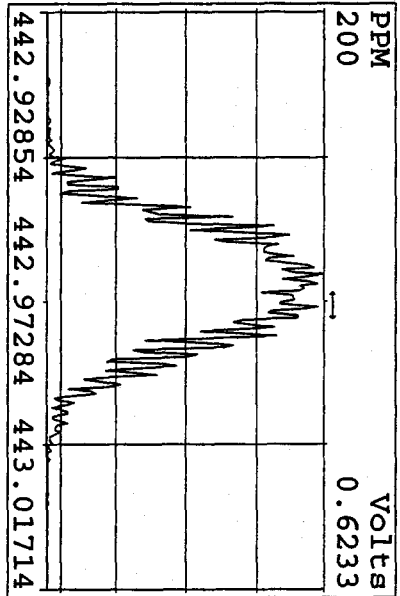
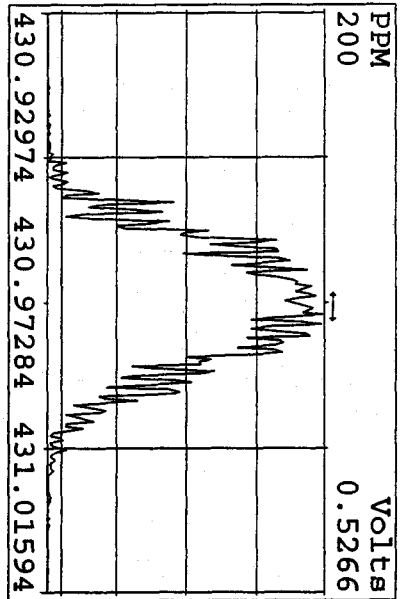
Peak Locate Examination: 4-JAN-2010:14:20 File:04JA10A1D5
 Experiment:DIOXIN Function:3 Reference:PFK



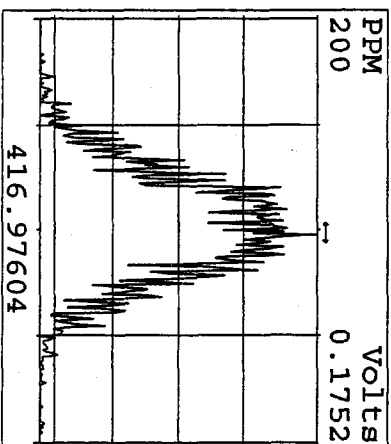
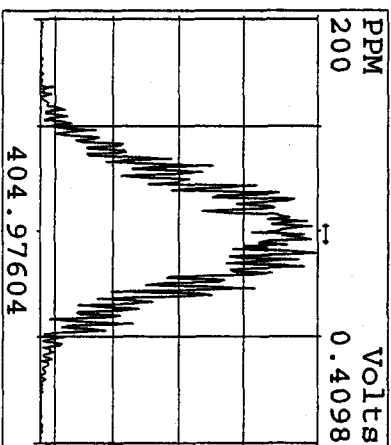
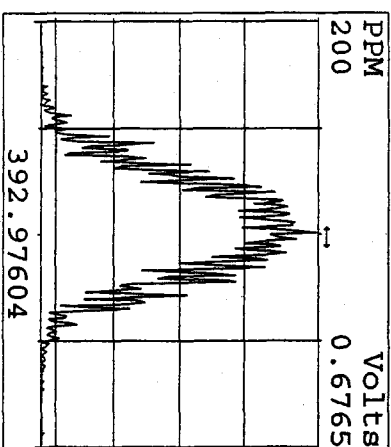
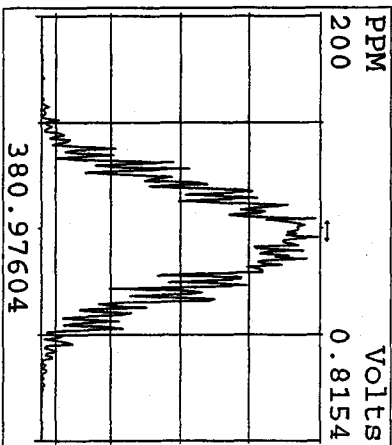
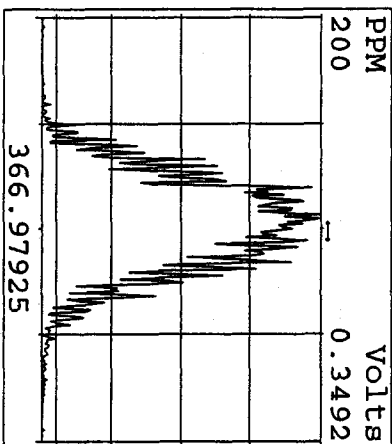
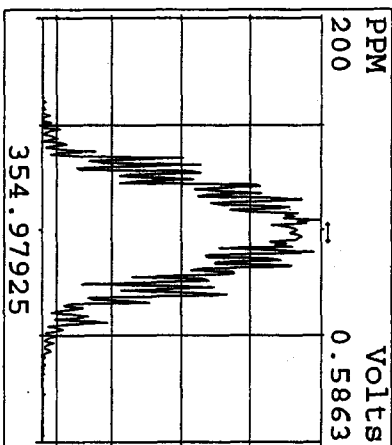
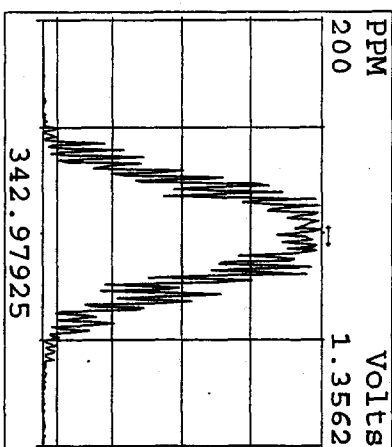
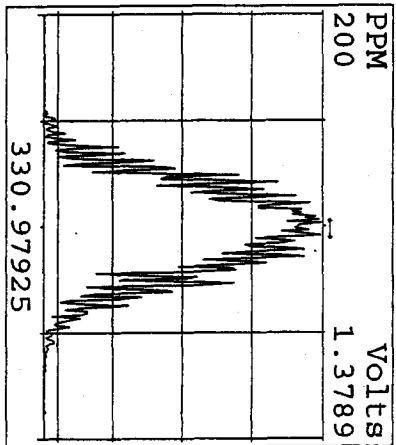
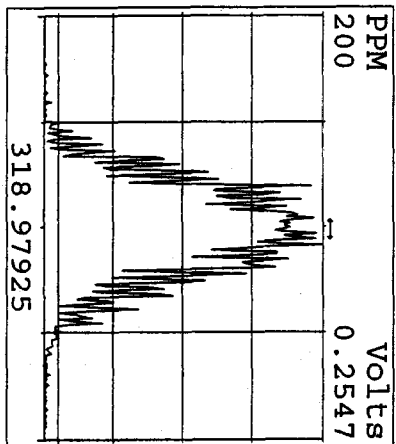
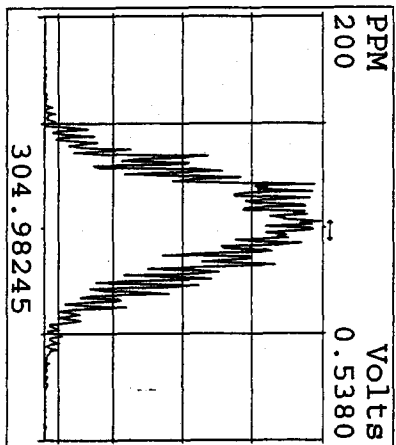
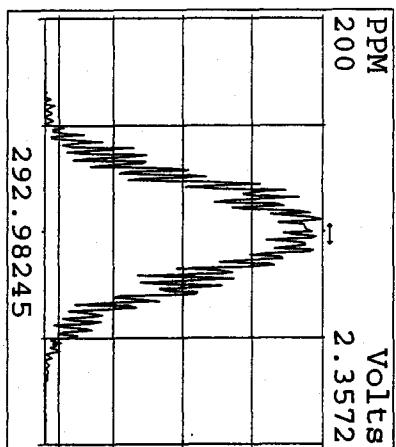
Peak Locate Examination: 4-JAN-2010:14:20 File:04JA10A1D5
 Experiment:DIOXIN Function:4 Reference:PFK



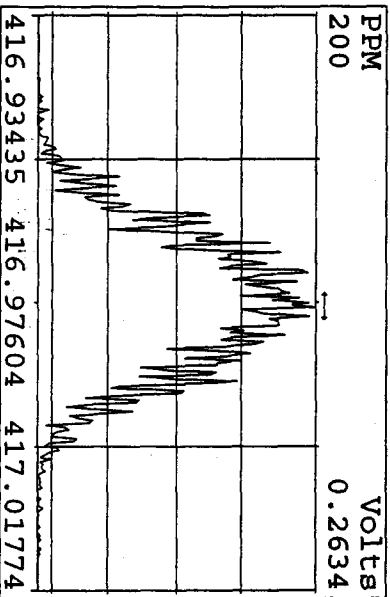
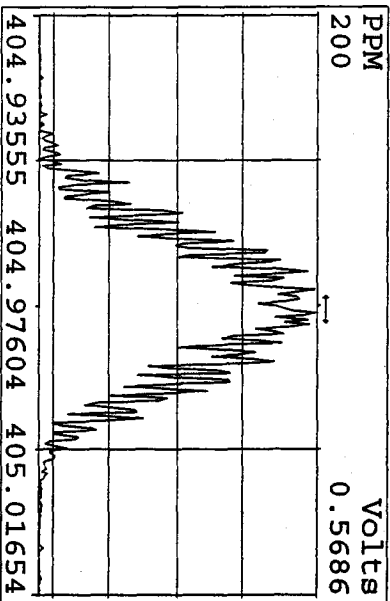
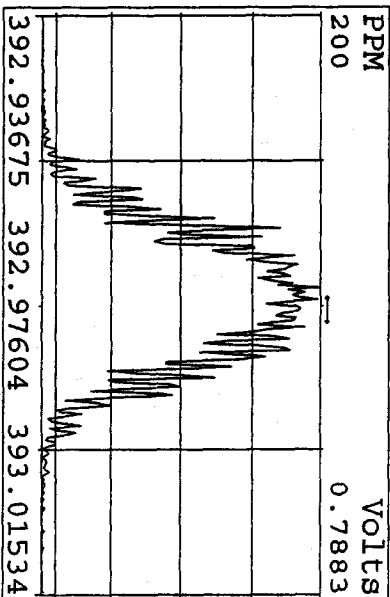
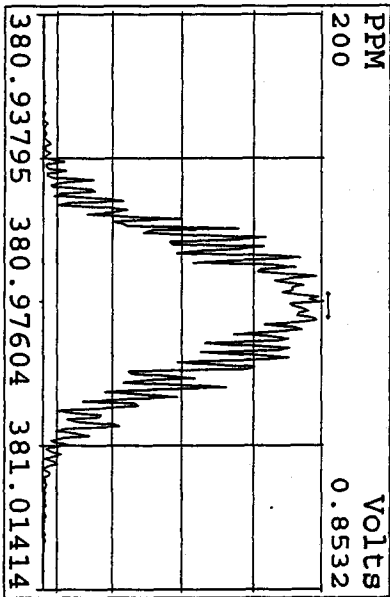
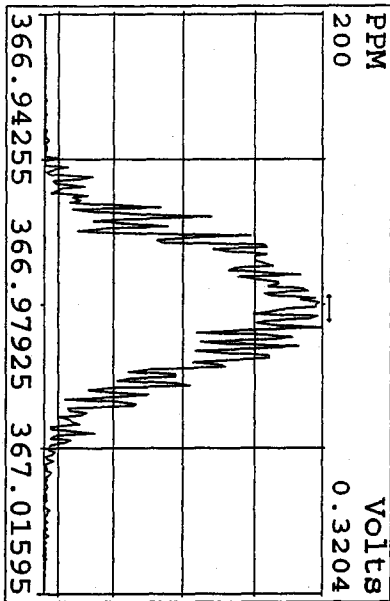
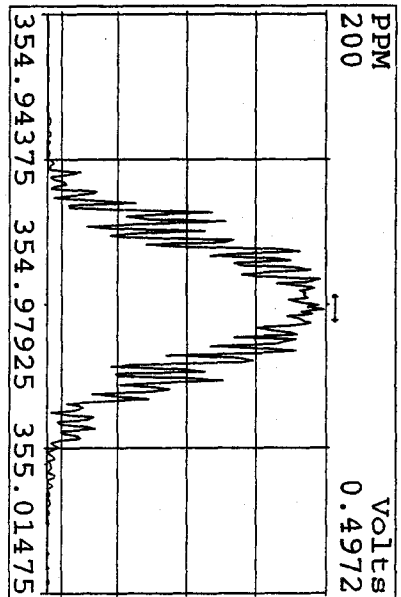
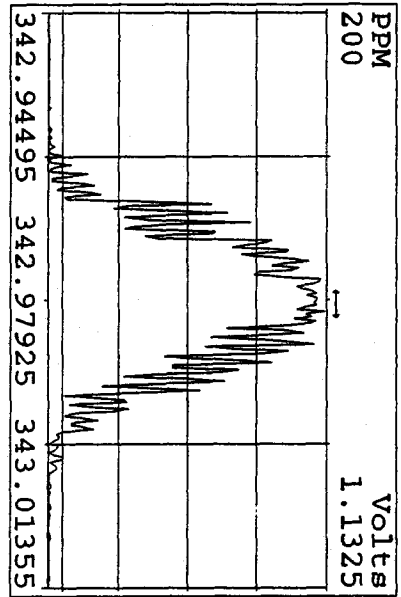
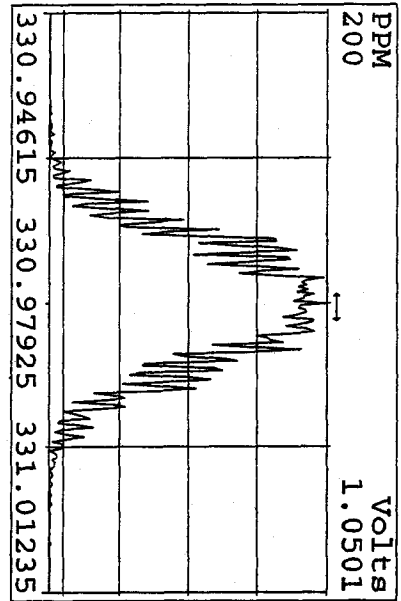
Peak Locate Examination: 4-JAN-2010:14:21 File:04JA10A1D5
 Experiment:DIOXIN Function:5 Reference:PFK



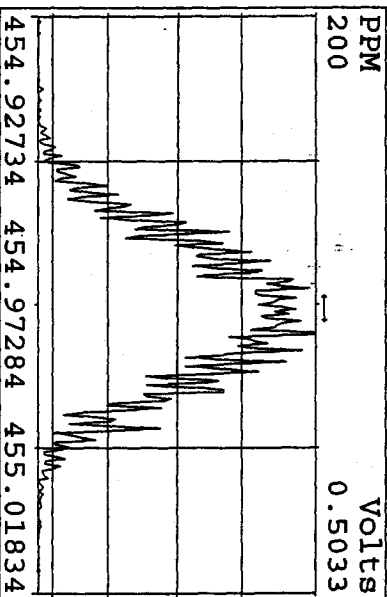
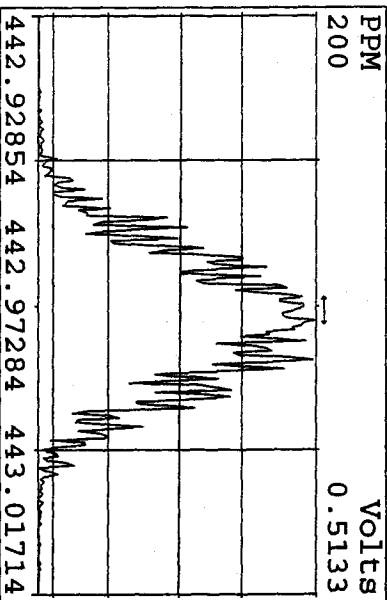
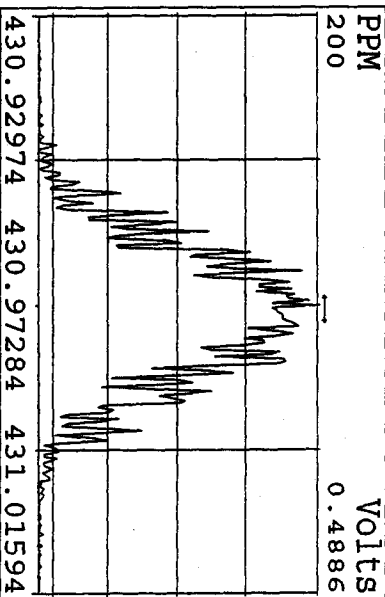
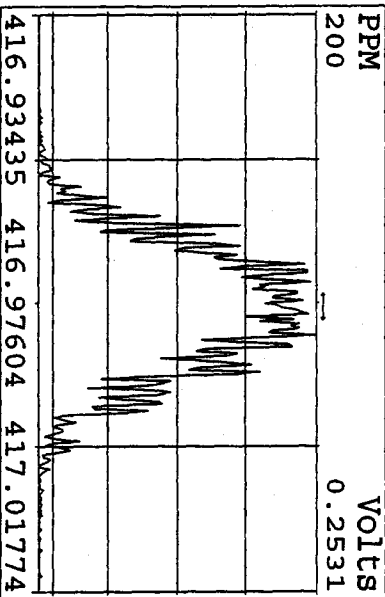
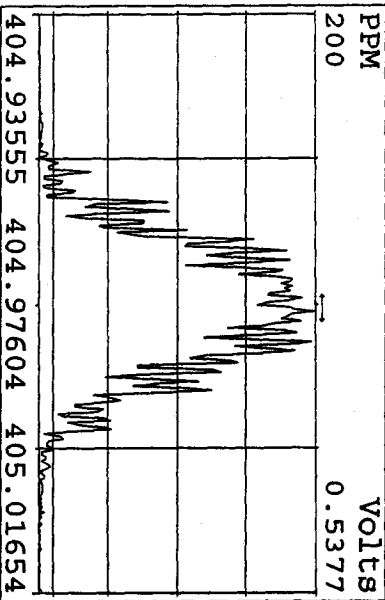
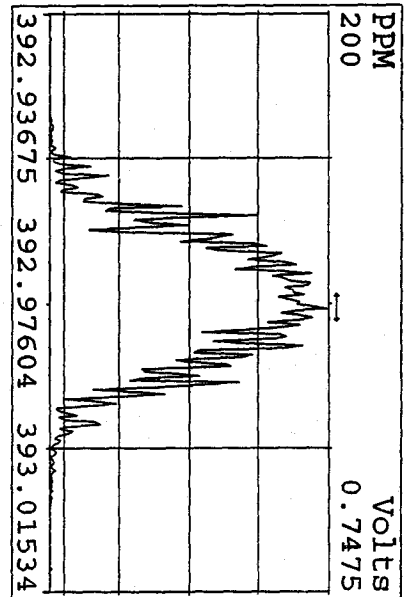
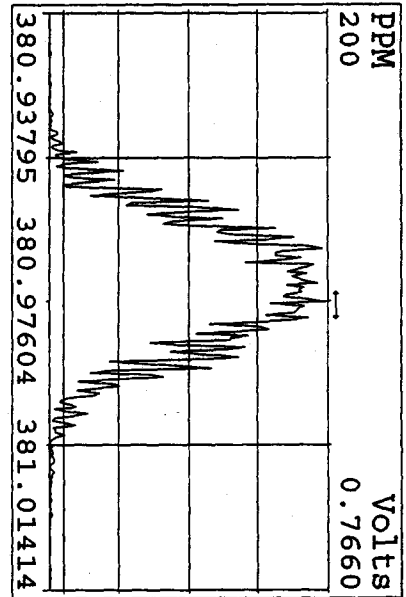
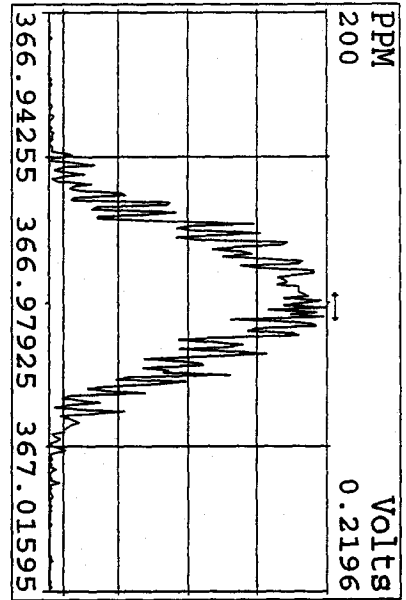
Peak Locate Examination: 4-JAN-2010:22:59 File:RESCHK04JJA10A1D5
 Experiment:DIOXIN Function:1 Reference:PFK



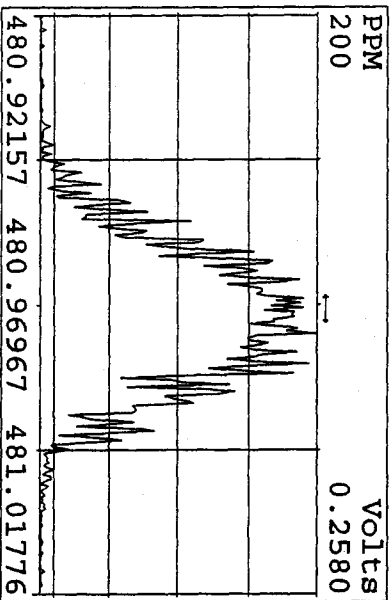
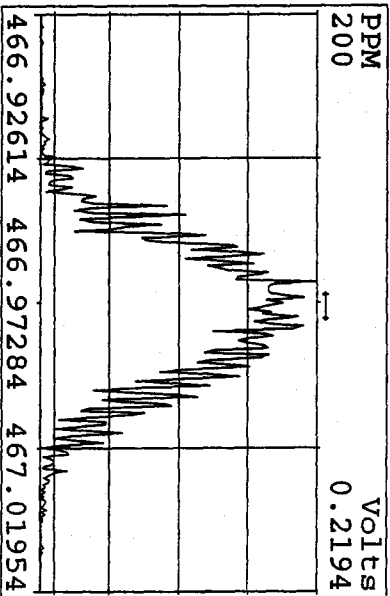
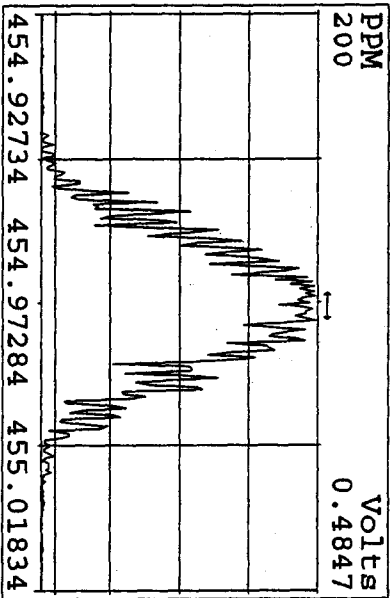
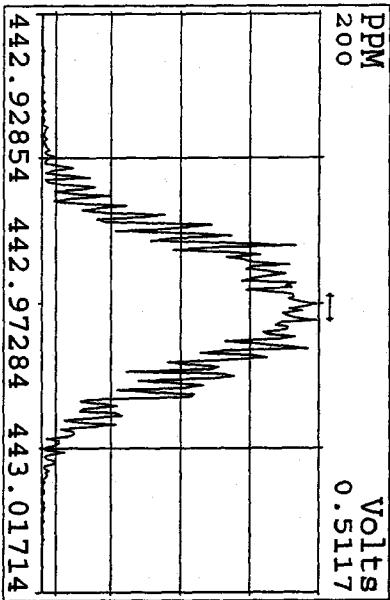
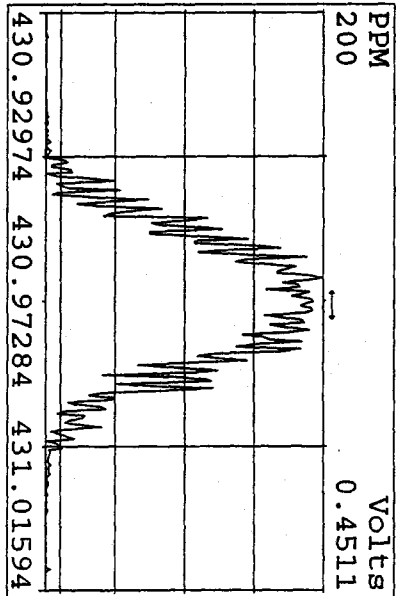
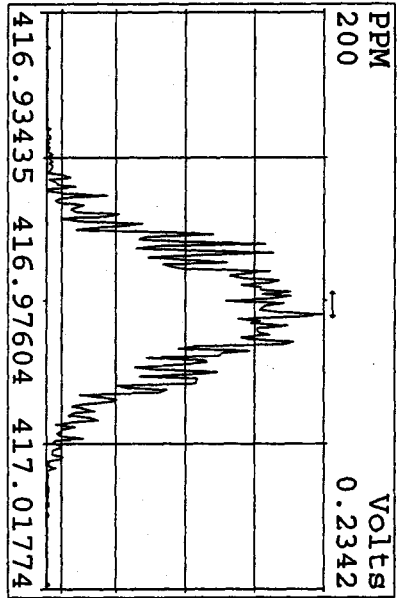
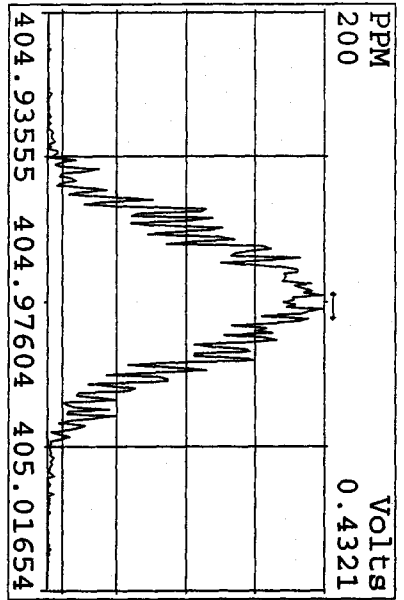
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 Experiment:DIOXIN Function:2 Reference:PFK



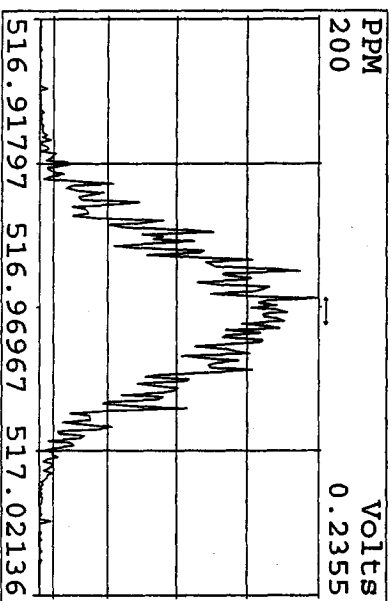
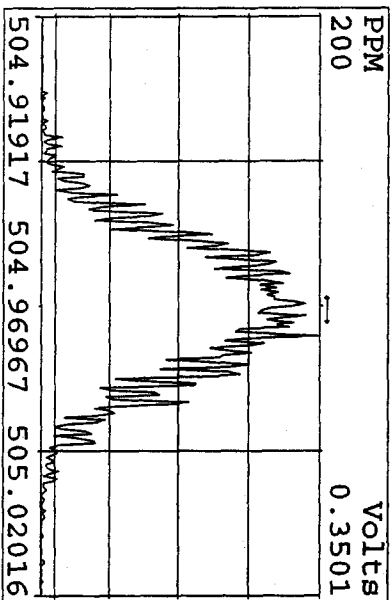
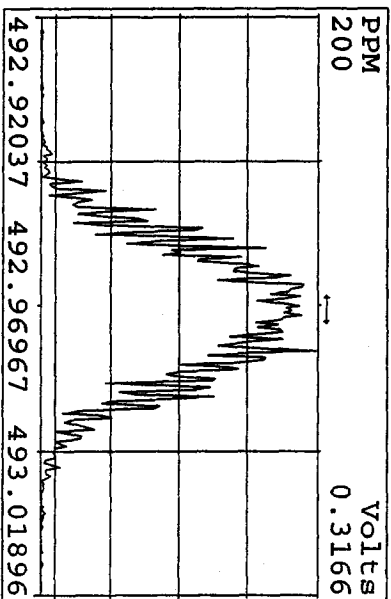
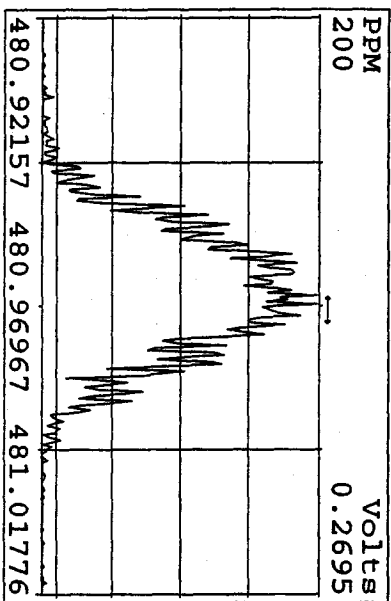
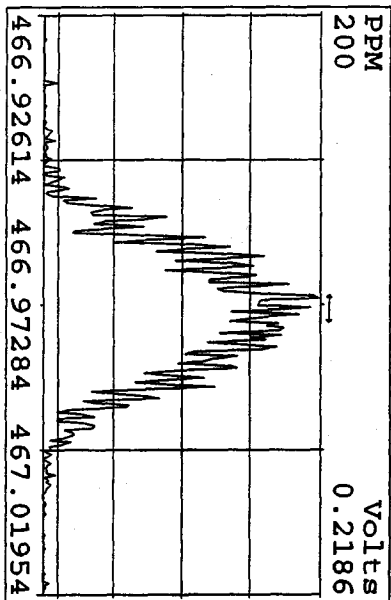
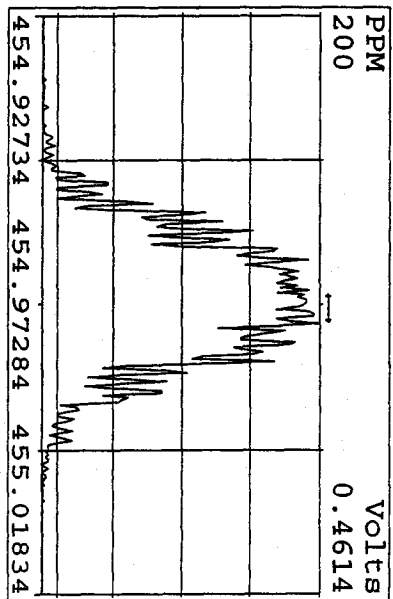
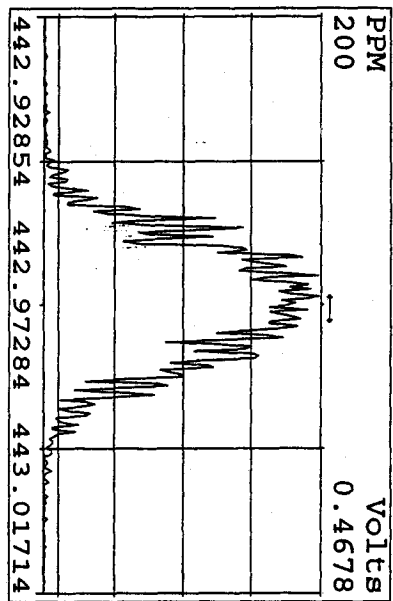
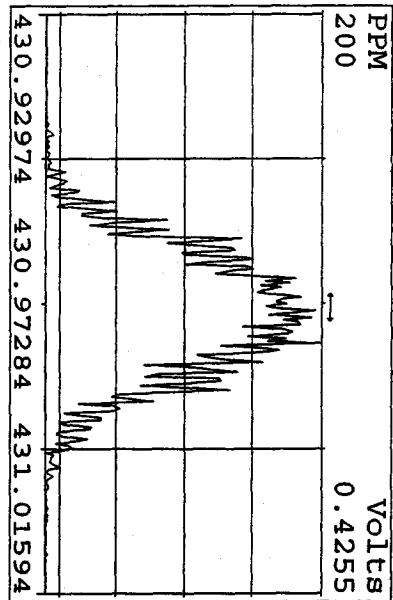
Peak Locate Examination: 4-JAN-2010:23:02 File: RESCHK04JJA10A1D5
 Experiment: DIOXIN Function: 3 Reference: PRK



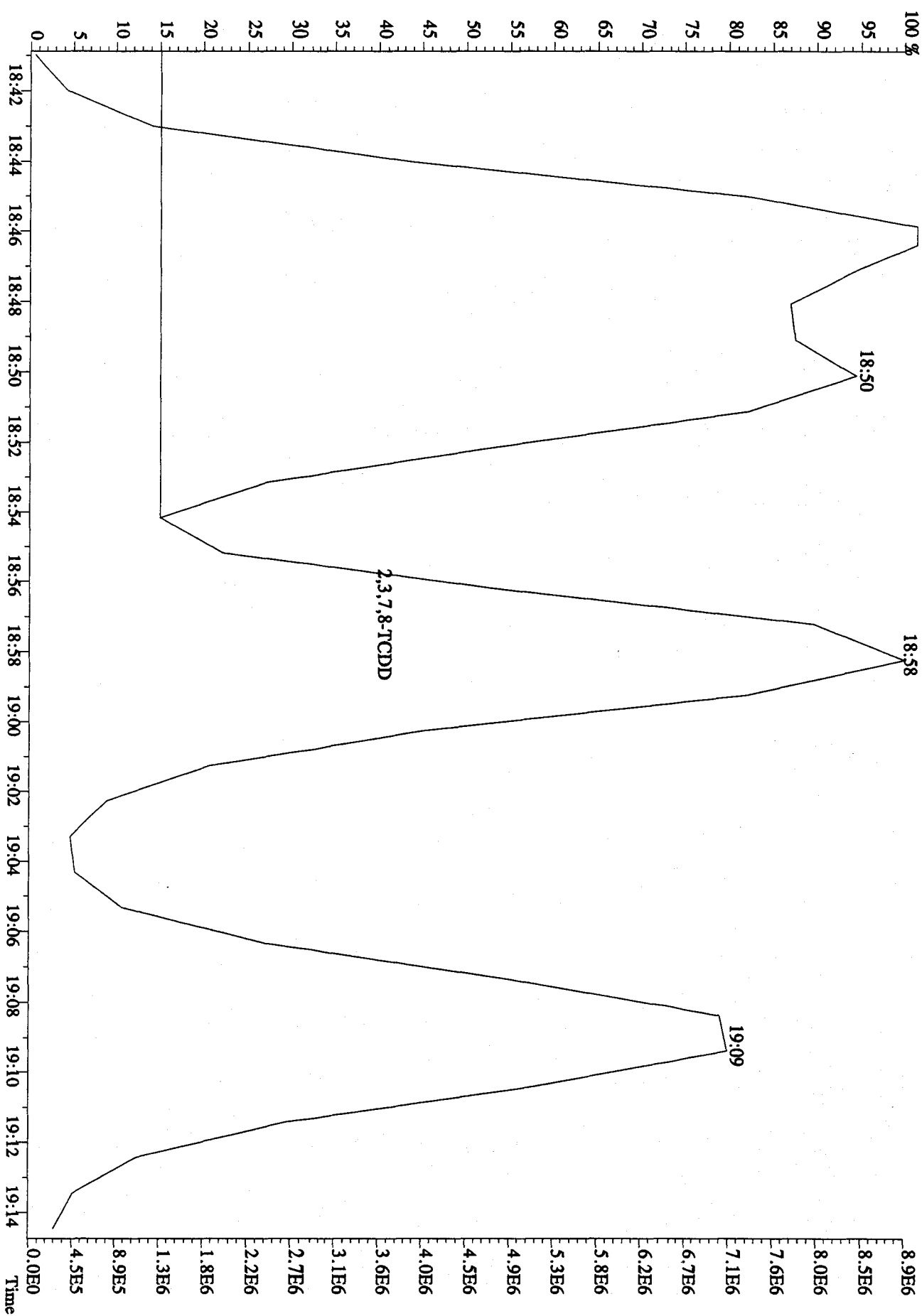
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 Experiment:DIOXIN Function:4 Reference:PFK



Peak Locate Examination: 4-JAN-2010:23:05 File:RBSCHK04JA10A1DS
 Experiment:DIOXIN Function:5 Reference:PKK



File:04JA10A1D5 #1-339 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE
Sample#2 Exp:DIOXIN
321.8936 S:2



ST1231B :CS-1 09DXM422 ST1231C :CS-2 09DXM423 ST1231D :CS-3 09DXM425
 ST1231E :CS-4 09DXM426 ST1231F :CS-5 09DXM456

31DE09A1D531DE09A1D531DE09A1D531DE09A1D531DE09A1D531DE09A1D5

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.566	0.079	5.03 %	1.52	1.48	1.64	1.53	1.66
2,3,7,8-TCDF	0.860	0.090	10.4 %	0.77	0.77	0.87	0.91	0.98
Total TCDF	0.860	0.090	10.4 %	0.77	0.77	0.87	0.91	0.98
13C-2,3,7,8-TCDD	0.993	0.079	7.91 %	0.93	0.93	1.01	0.97	1.12
2,3,7,8-TCDD	0.934	0.120	12.9 %	0.86	0.77	0.95	1.01	1.07
Total TCDD	0.934	0.120	12.9 %	0.86	0.77	0.95	1.01	1.07
37Cl-2,3,7,8-TCDD	2.218	0.347	15.7 %	2.02	1.82	2.18	2.33	2.74
13C-1,2,3,7,8-PeCDF	1.073	0.114	10.6 %	1.00	0.98	1.09	1.03	1.26
1,2,3,7,8-PeCDF	1.000	0.119	11.9 %	0.85	0.90	1.04	1.10	1.11
2,3,4,7,8-PeCDF	0.939	0.122	13.0 %	0.79	0.84	0.97	1.05	1.05
Total F2 PeCDF	0.969	0.120	12.4 %	0.82	0.87	1.01	1.08	1.08
Total F1 PeCDF	0.969	0.120	12.4 %	0.82	0.87	1.01	1.08	1.08
13C-1,2,3,7,8-PeCDD	0.666	0.081	12.1 %	0.61	0.59	0.67	0.67	0.80
1,2,3,7,8-PeCDD	0.929	0.127	13.7 %	0.79	0.81	0.94	1.04	1.06
Total PeCDD	0.929	0.127	13.7 %	0.79	0.81	0.94	1.04	1.06
13C-1,2,3,7,8-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	0.893	0.084	9.37 %	0.98	0.88	0.90	0.76	0.94
1,2,3,4,7,8-HxCDF	1.199	0.171	14.2 %	0.96	1.08	1.31	1.33	1.32
1,2,3,6,7,8-HxCDF	1.371	0.160	11.7 %	1.12	1.30	1.48	1.51	1.45
2,3,4,6,7,8-HxCDF	1.242	0.152	12.3 %	1.02	1.15	1.32	1.36	1.36
1,2,3,7,8,9-HxCDF	1.326	0.218	16.4 %	1.02	1.19	1.44	1.57	1.42
Total HxCDF	1.285	0.174	13.5 %	1.03	1.18	1.39	1.44	1.38
13C-1,2,3,6,7,8-HxCDD	0.732	0.084	11.4 %	0.83	0.69	0.75	0.61	0.78
1,2,3,4,7,8-HxCDD	0.970	0.170	17.5 %	0.74	0.88	0.98	1.15	1.11

1,2,3,6,7,8-HxCDD	1.058	0.118	11.2 %	0.88	1.01	1.09	1.16	1.15
1,2,3,7,8,9-HxCDD	1.275	0.243	19.0 %	0.92	1.19	1.33	1.57	1.37
Total HxCDD	1.101	0.175	15.9 %	0.84	1.02	1.14	1.30	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.860	0.055	6.38 %	0.92	0.85	0.88	0.78	0.88
1,2,3,4,6,7,8-HpCDF	1.287	0.138	10.8 %	1.10	1.18	1.34	1.41	1.40
1,2,3,4,7,8,9-HpCDF	1.135	0.151	13.3 %	0.95	1.00	1.19	1.27	1.27
Total HpCDF	1.211	0.145	11.9 %	1.02	1.09	1.27	1.34	1.33
13C-1,2,3,4,6,7,8-HpCDD	0.752	0.046	6.08 %	0.80	0.74	0.75	0.68	0.79
1,2,3,4,6,7,8-HpCDD	0.998	0.122	12.2 %	0.85	0.88	1.05	1.10	1.10
Total HpCDD	0.998	0.122	12.2 %	0.85	0.88	1.05	1.10	1.10
13C-OCDD	0.564	0.039	6.86 %	0.58	0.54	0.57	0.51	0.61
OCDF	1.437	0.202	14.1 %	1.16	1.30	1.52	1.63	1.59
OCDD	1.110	0.128	11.5 %	0.96	0.98	1.16	1.23	1.22

Daily Calibration Checklist Dioxin Methods

Method ID 8290

Associated ICAL 8290 091609 405

Column ID DB5

Instrument ID 4D5

STD ID ST1222B, ST1222C

STD Solution 09DXN384

Analyzed by AM

Date Analyzed 12/22/09, 12/23/09

Std. Pkg. By AVP

Date Std. Pkg. Assembled 12/23/09

Std. Pkg. Reviewed By KSS

Date Std. Pkg. Reviewed 12/23/09

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 \leq method specified limits? ^{**}	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS:

* Method 8290/TO9/M0023A: (beginning) \leq 20% from curve RRFs for native analytes, \leq 30% from curve RRFs for labeled compounds.

Method 8290/TO9/M0023A: (ending) \leq 25% from curve RRFs for native analytes, \leq 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: ST1222B File text: CS3 09DXN384
 Run #6 Filename 22DE09A4D5 S: 1 I: 1
 Acquired: 22-DEC-09 21:26:07 Processed: 22-DEC-09 22:08:05
 Run: 22DE09A4D5 Analyte: 8290 Cal: 82900916094D5 Results: 22DE09A4D58290

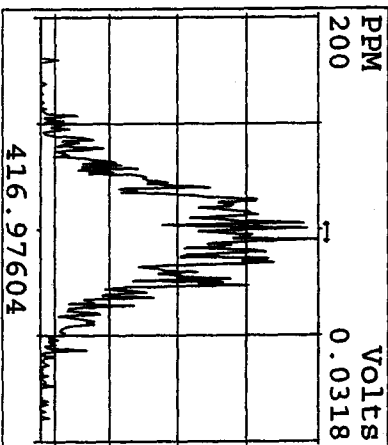
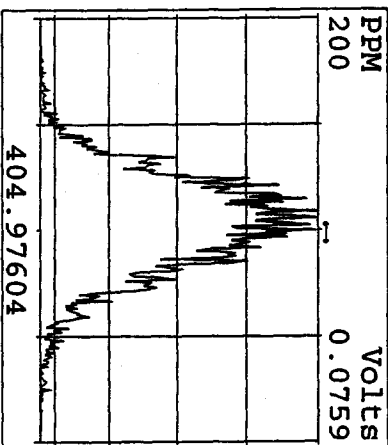
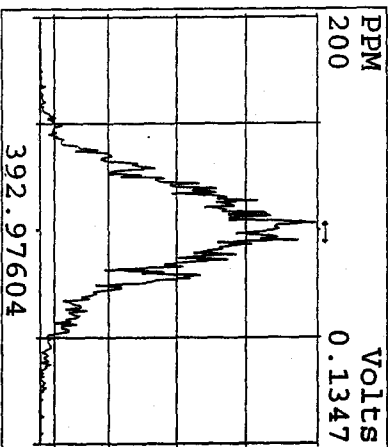
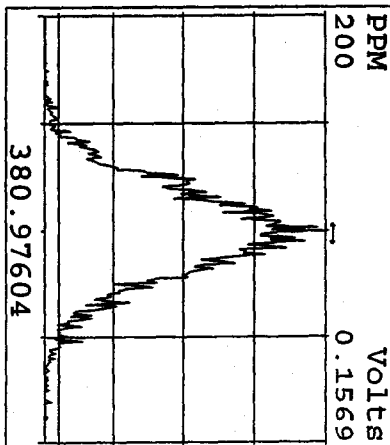
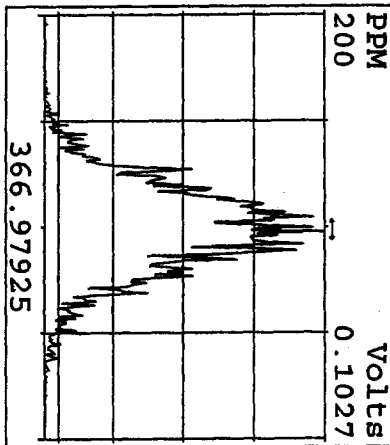
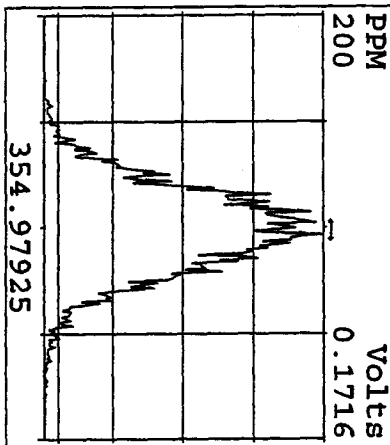
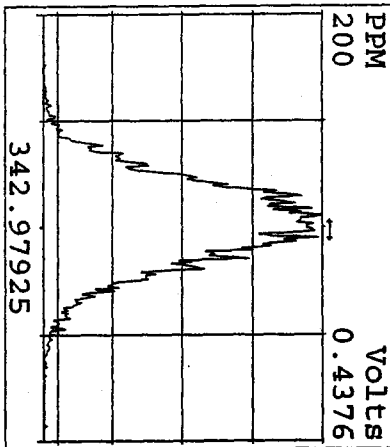
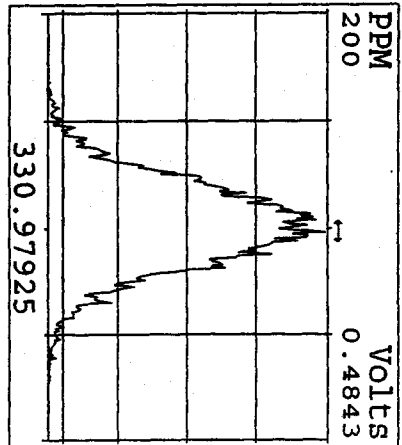
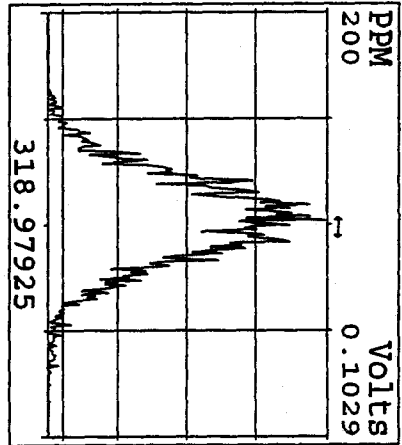
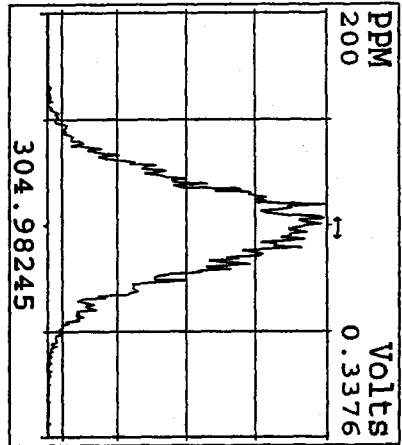
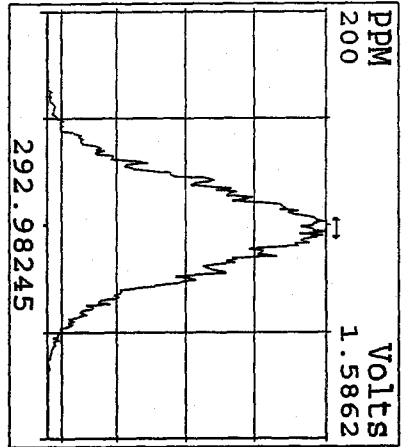
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	71497200	0.82 y	19:41	-	100.00	-	n
13C-2,3,7,8-TCDF	105807100	0.79 y	19:07	1.48	100.00	1.4	n
2,3,7,8-TCDF	13470810	0.79 y	19:08	1.27	10.00	0.0	n
Total TCDF	13813312	0.75 y	17:16	1.27	10.00	0.0	n
13C-2,3,7,8-TCDD	65427700	0.81 y	19:55	0.92	100.00	-0.8	n
2,3,7,8-TCDD	8263620	0.81 y	19:57	1.26	10.00	2.9	n
Total TCDD	8346556	2.28 n	16:45	1.26	10.00	2.9	n
37Cl-2,3,7,8-TCDD	18163860	1.00 y	19:57	2.54	10.00	1.0	n
13C-1,2,3,7,8-PeCDF	71255900	1.61 y	24:53	1.00	100.00	-21.3	n
1,2,3,7,8-PeCDF	47705200	1.55 y	24:55	1.34	50.00	2.9	n
2,3,4,7,8-PeCDF	45112000	1.56 y	26:26	1.27	50.00	1.3	n
Total F2 PeCDF	93507525	0.72 n	23:20	1.30	100.00	2.1	n
Total F1 PeCDF	68030	0.54 n	14:24	1.30	100.00	2.1	n
13C-1,2,3,7,8-PeCDD	41920300	1.55 y	27:14	0.59	100.00	-24.1	n
1,2,3,7,8-PeCDD	26155500	1.60 y	27:16	1.25	50.00	0.5	n
Total PeCDD	26259790	1.60 y	27:16	1.25	50.00	0.5	n
13C-1,2,3,7,8,9-HxCDD	48129600	1.30 y	33:14	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	54279700	0.52 y	32:06	1.13	100.00	-5.0	n
1,2,3,4,7,8-HxCDF	35152400	1.21 y	32:07	1.30	50.00	-0.9	n
1,2,3,6,7,8-HxCDF	43727900	1.24 y	32:14	1.61	50.00	14.1	n
2,3,4,6,7,8-HxCDF	39418400	1.24 y	32:46	1.45	50.00	8.9	n
1,2,3,7,8,9-HxCDF	31621200	1.18 y	33:25	1.17	50.00	-2.5	n
Total HxCDF	150367386	1.02 n	31:02	1.38	200.00	5.2	n
13C-1,2,3,6,7,8-HxCDD	37218400	1.30 y	32:57	0.77	100.00	3.6	n
1,2,3,4,7,8-HxCDD	21769650	1.22 y	32:54	1.17	50.00	-5.8	n
1,2,3,6,7,8-HxCDD	28872800	1.27 y	32:58	1.55	50.00	4.9	n
1,2,3,7,8,9-HxCDD	27494700	1.23 y	33:15	1.48	50.00	0.3	n
Total HxCDD	78137150	1.22 y	32:54	1.40	150.00	0.1	n
13C-1,2,3,4,6,7,8-HpCDF	44773400	0.43 y	34:45	0.93	100.00	1.8	n
1,2,3,4,6,7,8-HpCDF	35387100	1.03 y	34:45	1.58	50.00	-0.9	n
1,2,3,4,7,8,9-HpCDF	25979300	1.02 y	35:54	1.16	50.00	-12.8	n
Total HpCDF	61366400	1.03 y	34:45	1.37	100.00	-6.3	n
13C-1,2,3,4,6,7,8-HpCDD	34362800	1.07 y	35:34	0.71	100.00	0.0	n
1,2,3,4,6,7,8-HpCDD	22660900	1.04 y	35:34	1.32	50.00	0.9	n
Total HpCDD	22844284	1.14 y	35:00	1.32	50.00	0.9	n
13C-OCDD	55030700	0.89 y	38:05	0.57	200.00	-5.6	n
OCDF	41791900	0.89 y	38:13	1.52	100.00	0.6	n
OCDD	32954500	0.94 y	38:06	1.20	100.00	0.3	n

Run text: ST1222C File text: ST1222C :CS3 09DXN384
 Run #18 Filename 22DE09A4D5 S: 15 I: 1
 Acquired: 23-DEC-09 07:42:38 Processed: 23-DEC-09 08:38:26
 Run: 22DE09A4D5 Analyte: 8290 Cal: 82900916094D5 Results: 22DE09A4D58290

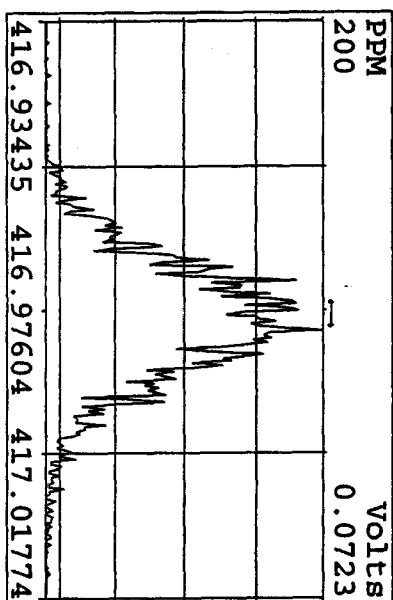
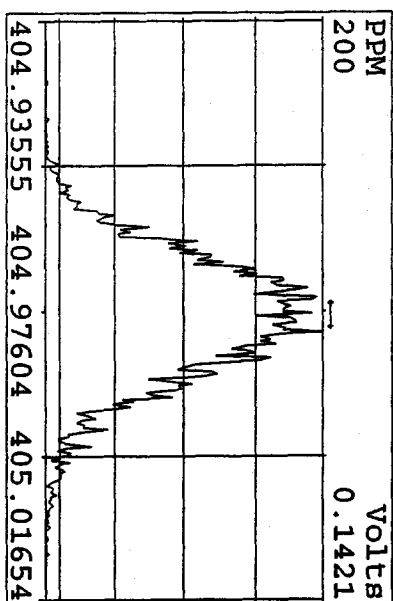
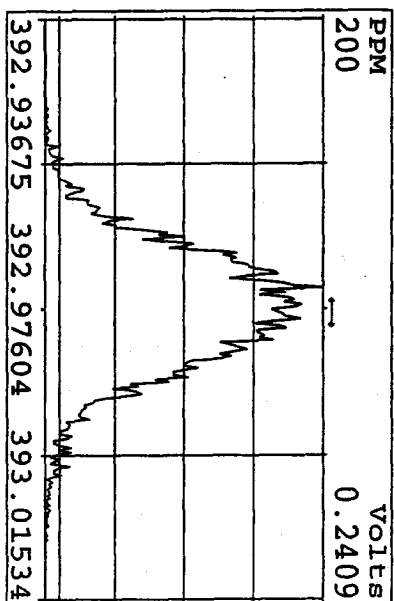
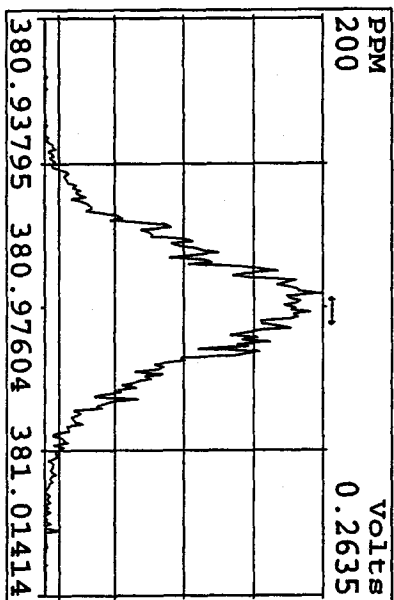
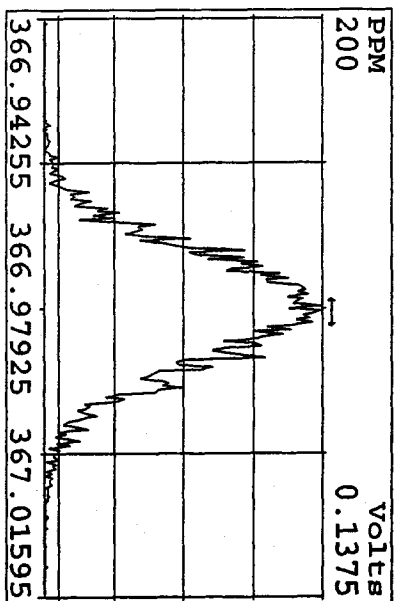
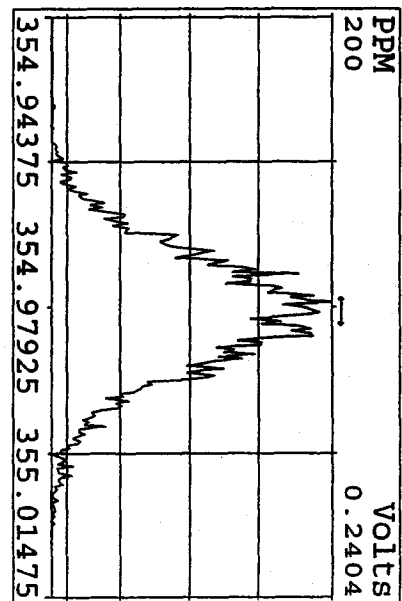
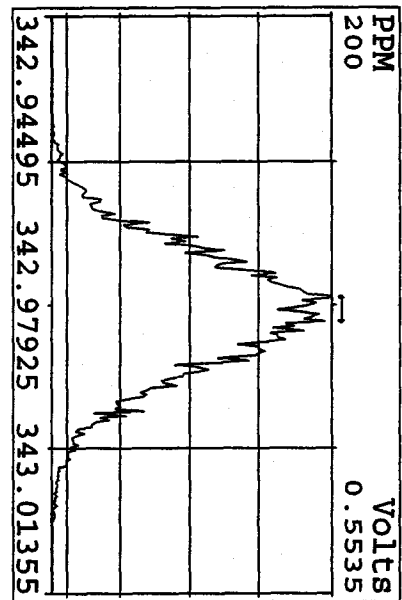
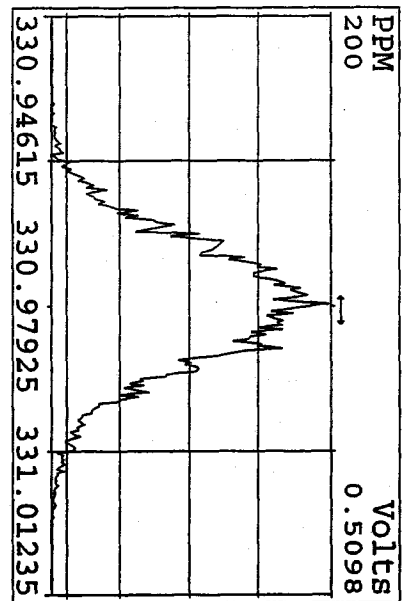
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	77279476	0.80 y	19:41	-	100.00	-	n
13C-2,3,7,8-TCDF	116738004	0.81 y	19:07	1.51	100.00	3.6	n
2,3,7,8-TCDF	14379391	0.81 y	19:08	1.23	10.00	-3.3	n
Total TCDF	14526761	1.11 n	18:10	1.23	10.00	-3.3	n
13C-2,3,7,8-TCDD	72077092	0.79 y	19:54	0.93	100.00	1.1	n
2,3,7,8-TCDD	8983415	0.80 y	19:56	1.25	10.00	1.6	n
Total TCDD	9172572	0.61 n	15:53	1.25	10.00	1.6	n
37Cl-2,3,7,8-TCDD	19659852	1.00 y	19:56	2.54	10.00	1.1	n
13C-1,2,3,7,8-PeCDF	77960100	1.58 y	24:53	1.01	100.00	-20.4	n
1,2,3,7,8-PeCDF	54131236	1.55 y	24:54	1.39	50.00	6.7	n
2,3,4,7,8-PeCDF	51391876	1.54 y	26:26	1.32	50.00	5.5	n
Total F2 PeCDF	106160963	0.37 n	23:19	1.35	100.00	6.1	n
Total F1 PeCDF	54480	0.86 n	14:15	1.35	100.00	6.1	n
13C-1,2,3,7,8-PeCDD	47017500	1.61 y	27:14	0.61	100.00	-21.2	n
1,2,3,7,8-PeCDD	29233530	1.57 y	27:16	1.24	50.00	0.2	n
Total PeCDD	29242908	1.57 y	27:16	1.24	50.00	0.2	n
13C-1,2,3,7,8,9-HxCDD	57758422	1.34 y	33:14	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	63950090	0.54 y	32:05	1.11	100.00	-6.7	n
1,2,3,4,7,8-HxCDF	42835596	1.30 y	32:06	1.34	50.00	2.5	n
1,2,3,6,7,8-HxCDF	50779446	1.17 y	32:13	1.59	50.00	12.5	n
2,3,4,6,7,8-HxCDF	49586404	1.24 y	32:46	1.55	50.00	16.2	n
1,2,3,7,8,9-HxCDF	40714274	1.26 y	33:25	1.27	50.00	6.5	n
Total HxCDF	184015804	1.19 y	31:03	1.44	200.00	9.6	n
13C-1,2,3,6,7,8-HxCDD	45356632	1.33 y	32:57	0.79	100.00	5.2	n
1,2,3,4,7,8-HxCDD	28228458	1.26 y	32:54	1.24	50.00	0.2	n
1,2,3,6,7,8-HxCDD	36466976	1.27 y	32:58	1.61	50.00	8.7	n
1,2,3,7,8,9-HxCDD	33578633	1.24 y	33:14	1.48	50.00	0.5	n
Total HxCDD	98274067	1.26 y	32:54	1.44	150.00	3.3	n
13C-1,2,3,4,6,7,8-HpCDF	53702387	0.43 y	34:44	0.93	100.00	1.8	n
1,2,3,4,6,7,8-HpCDF	42114418	1.02 y	34:45	1.57	50.00	-1.7	n
1,2,3,4,7,8,9-HpCDF	30919934	1.02 y	35:53	1.15	50.00	-13.5	n
Total HpCDF	73428185	1.02 y	34:45	1.36	100.00	-7.0	n
13C-1,2,3,4,6,7,8-HpCDD	39468532	1.05 y	35:33	0.68	100.00	-4.3	n
1,2,3,4,6,7,8-HpCDD	26329513	1.06 y	35:34	1.33	50.00	2.1	n
Total HpCDD	26529267	1.07 y	35:00	1.33	50.00	2.1	n
13C-OCDD	62619752	0.90 y	38:05	0.54	200.00	-10.5	n
OCDF	48465264	0.91 y	38:12	1.55	100.00	2.6	n
OCDD	37485478	0.92 y	38:06	1.20	100.00	0.3	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
22DE09A4D5	1	ST1222B	CS3 09DXN384				1.00000	
22DE09A4D5	2	CP1222A	DB-5 CPSM 3732-03				1.00000	
22DE09A4D5	3	SB1222C	Solvent Blank C-14				1.00000	
22DE09A4D5	4	LRF9L-1-AA	G9L210000-435B ✓	10	8290/SOLID	70	10.00000	g
22DE09A4D5	5	LRF9L-1-AC	G9L210000-435C ✓	10	8290/SOLID		10.00000	g
22DE09A4D5	6	LQ023-2-AC	G9L110588-22RX	10	8290/SOLID		10.31000	g
22DE09A4D5	7	LQ024-2-AC	G9L110588-23RX	10	8290/SOLID		10.16000	g
22DE09A4D5	8	LQ027-2-AC	G9L110588-25RX	10	8290/SOLID		10.15000	g
22DE09A4D5	9	LQ2K5-2-AC	G9L120491-1RX ✓	10	8290/SOLID		10.02000	g
22DE09A4D5	10	LQ2K7-2-AC	G9L120491-2RX ✓	10	8290/SOLID		10.04000	g
22DE09A4D5	11	LQ2K8-2-AC	G9L120491-3RX ✓	10	8290/SOLID		10.41000	g
22DE09A4D5	12	LQ2K9-2-AC	G9L120491-4RX ✓	10	8290/SOLID		10.40000	g
22DE09A4D5	13	LQ2LA-2-AC	G9L120491-5RX ✓	10	8290/SOLID		10.19000	g
22DE09A4D5	14	SB1222D	Solvent Blank C-14				1.00000	
22DE09A4D5	15	ST1222C	CS3 09DXN384				1.00000	
22DE09A4D5	16						1.00000	
22DE09A4D5	17						1.00000	
22DE09A4D5	18						1.00000	
22DE09A4D5	19						1.00000	
22DE09A4D5	20						1.00000	
22DE09A4D5	21		AM 12-22-09				1.00000	
22DE09A4D5	22		LOG-FILE ✓ 12-23-09 KCS				1.00000	

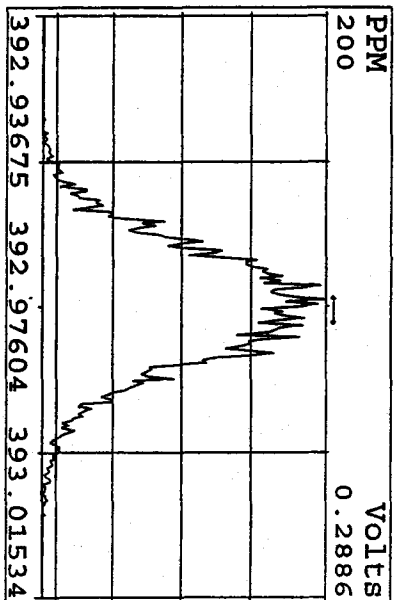
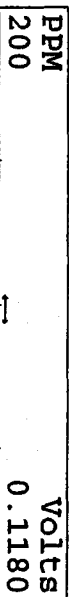
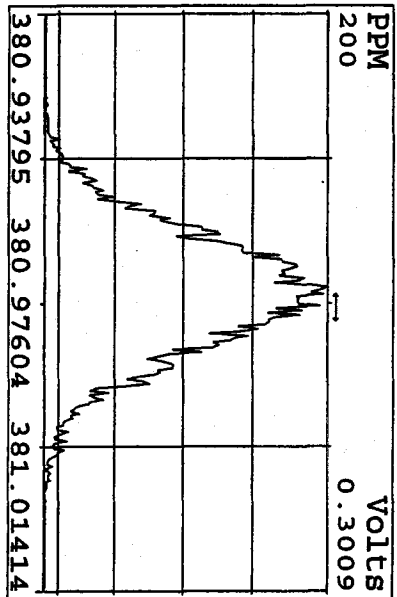
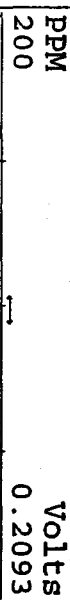
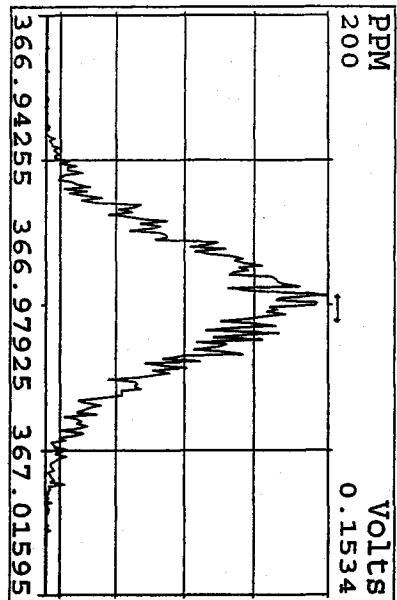
Peak Locate Examination: 22-DEC-2009: 21:14 File: 22DE09A4D5
Experiment: DIOXIN Function: 1 Reference: PRK



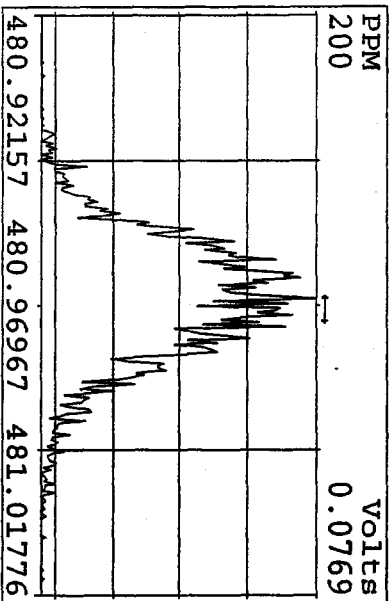
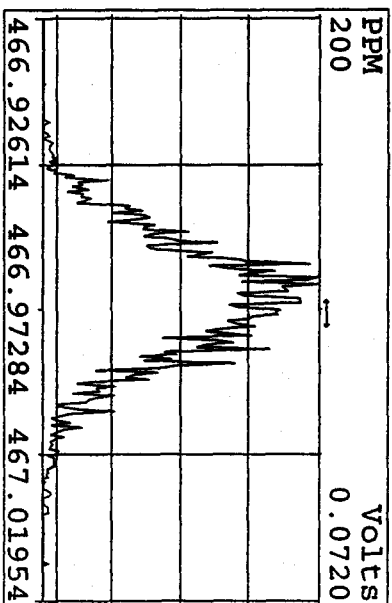
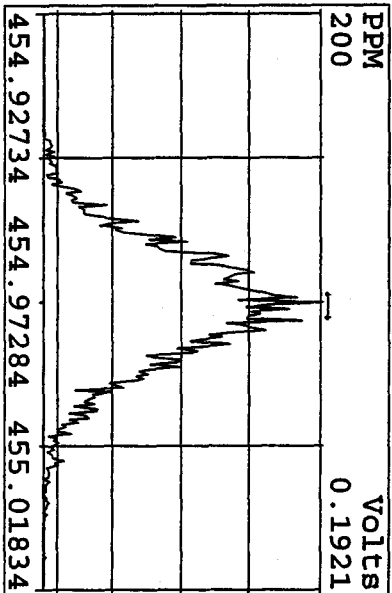
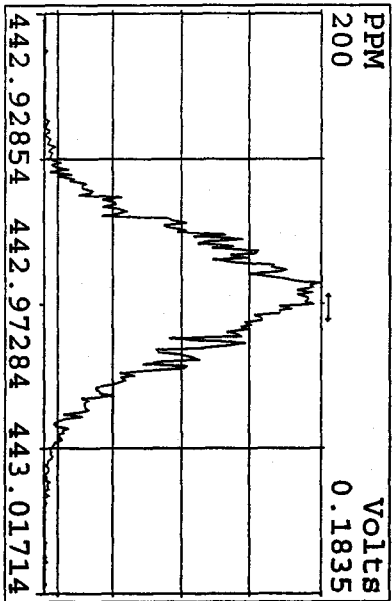
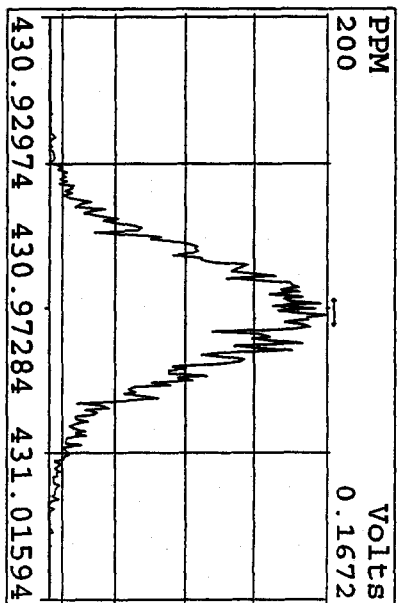
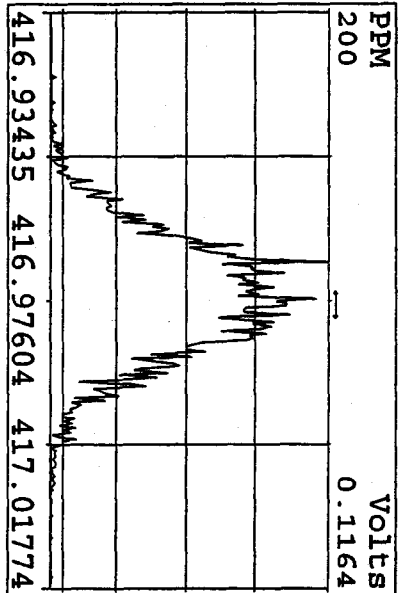
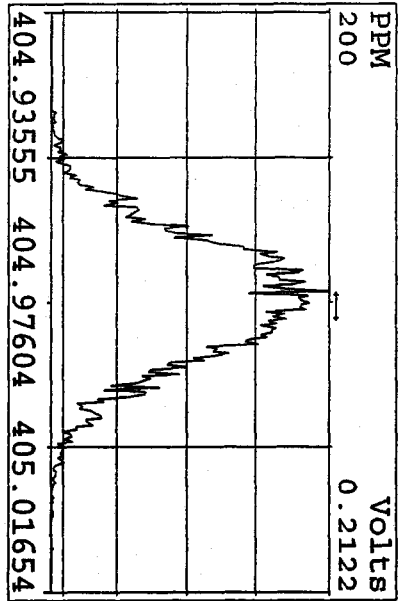
Peak Locate Examination: 22-DEC-2009: 21:17 File: 22DE09A4D5
 Experiment: DIOXIN Function: 2 Reference: PFK



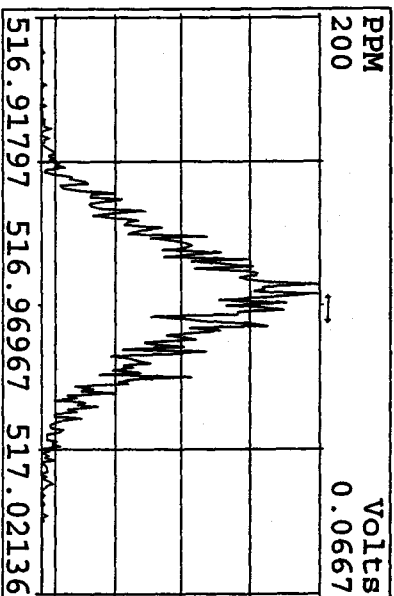
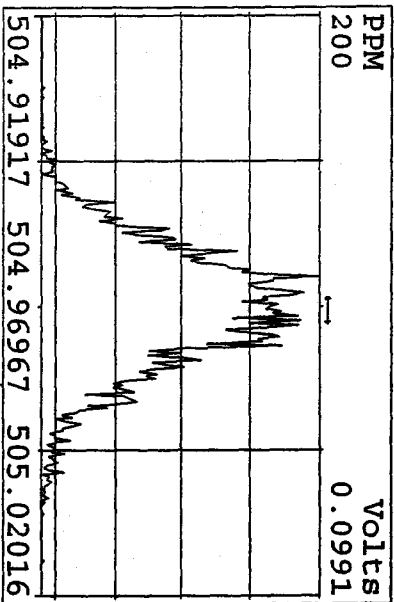
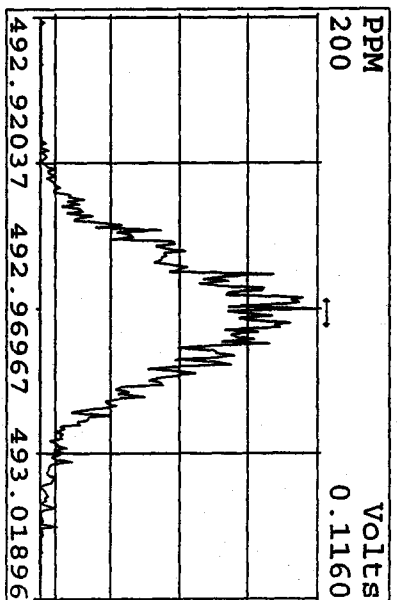
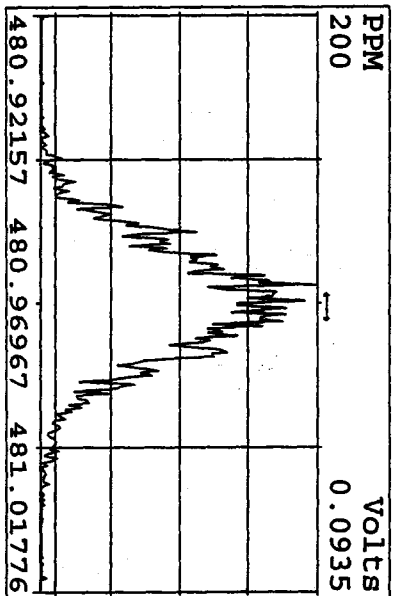
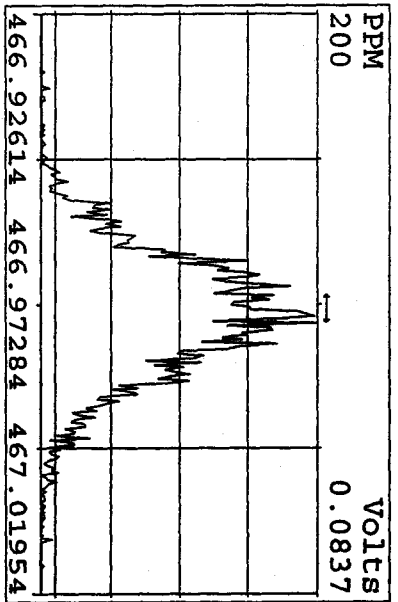
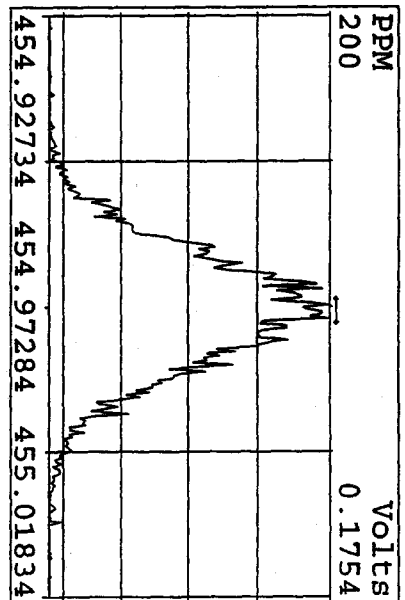
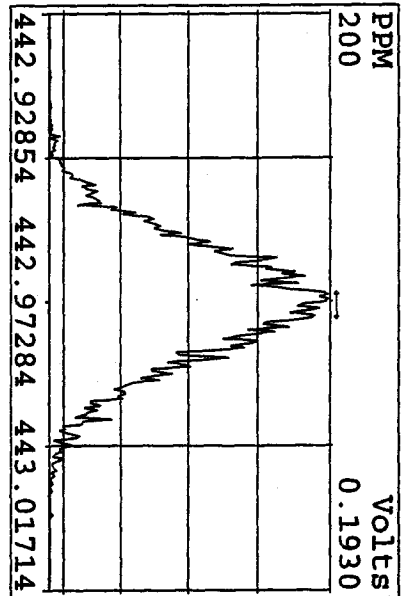
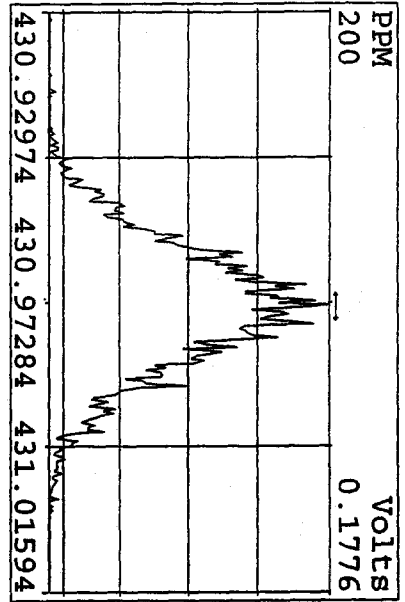
Peak Locate Examination: 22-DEC-2009: 21:19 File: 22DE09A4D5
 Experiment: DIOXIN Function: 3 Reference: PFK



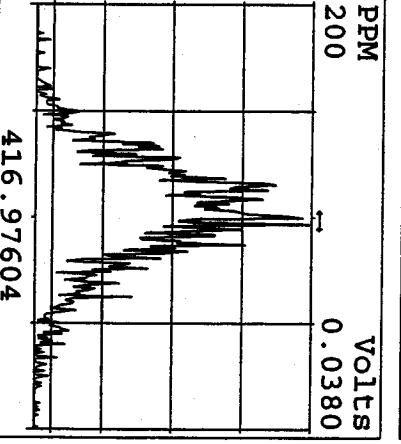
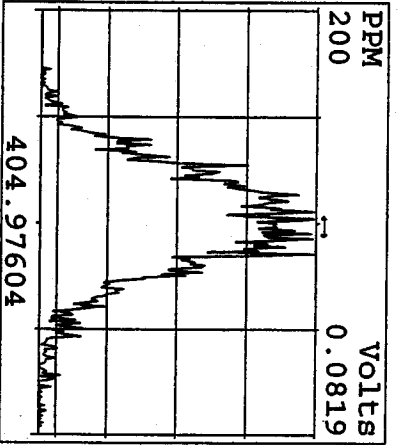
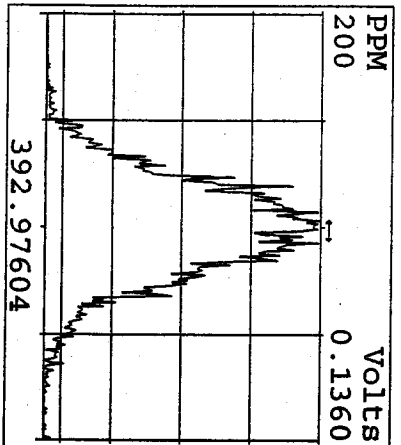
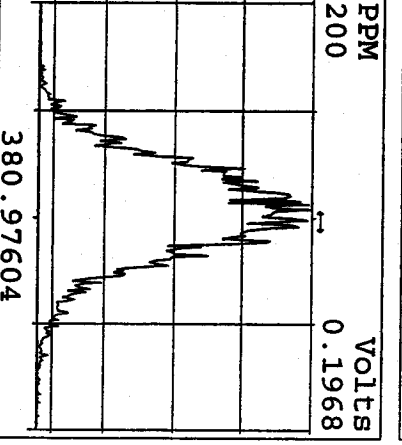
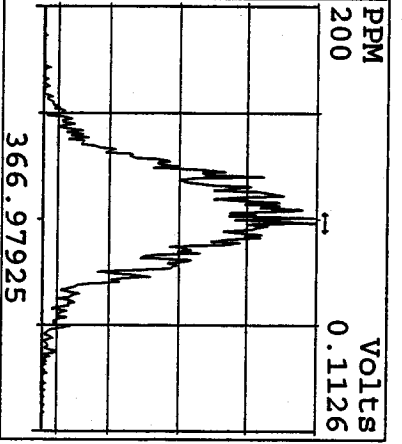
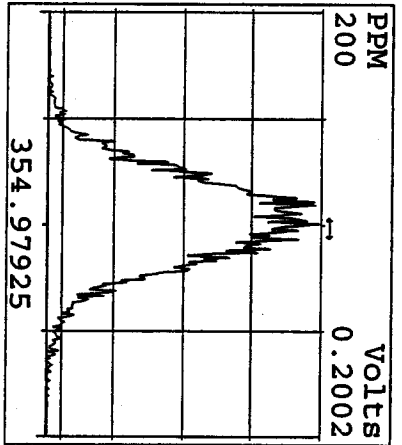
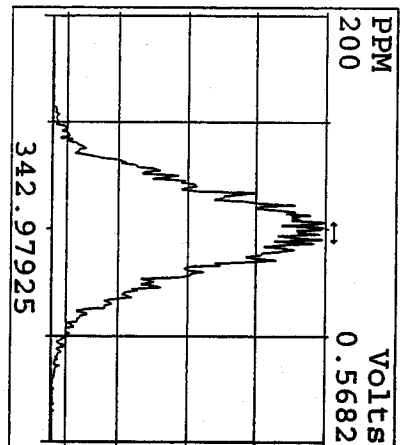
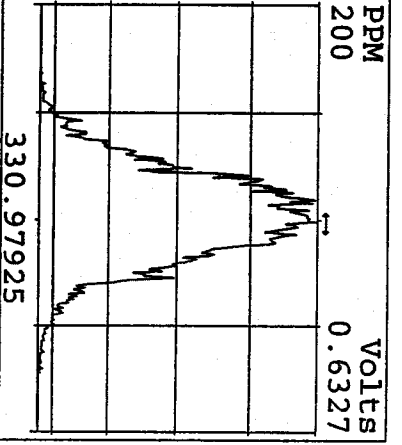
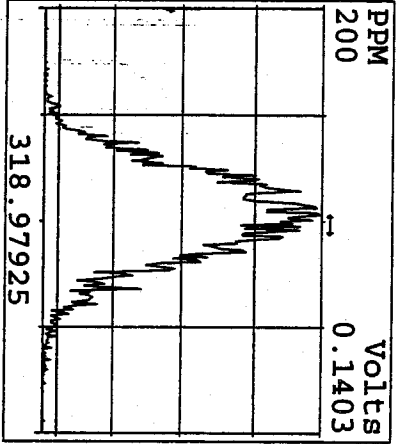
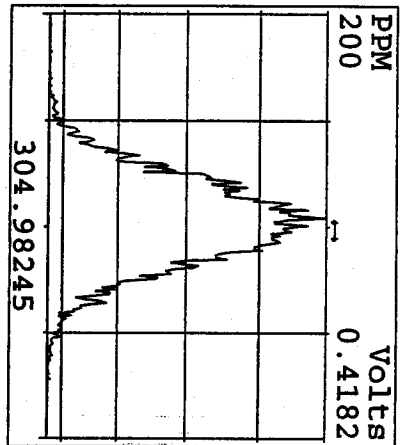
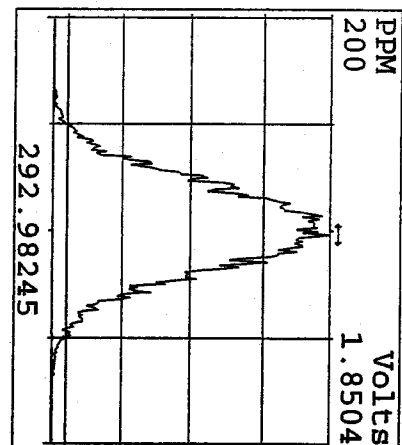
Peak Locate Examination: 22-DEC-2009: 21:22 File: 22DE09A4D5
 Experiment: DIOXIN Function: 4 Reference: PFK



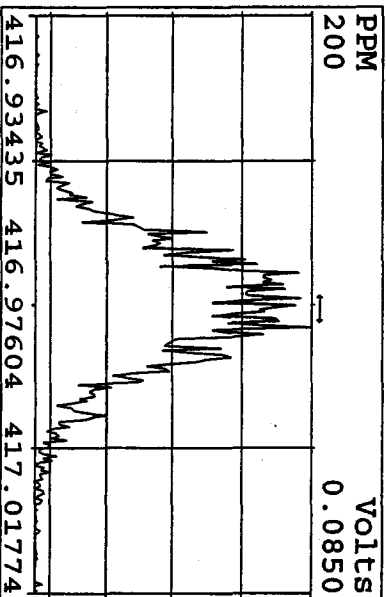
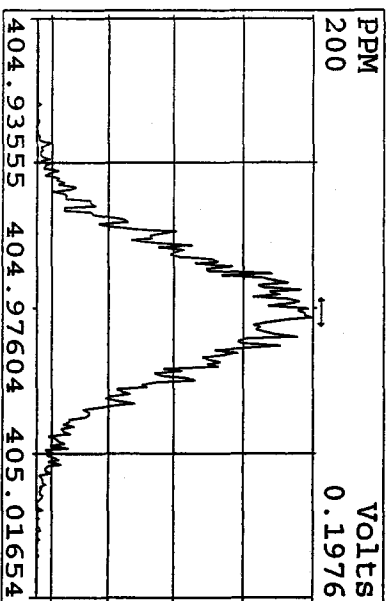
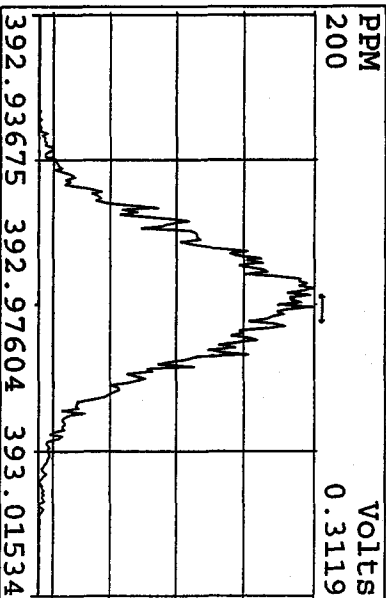
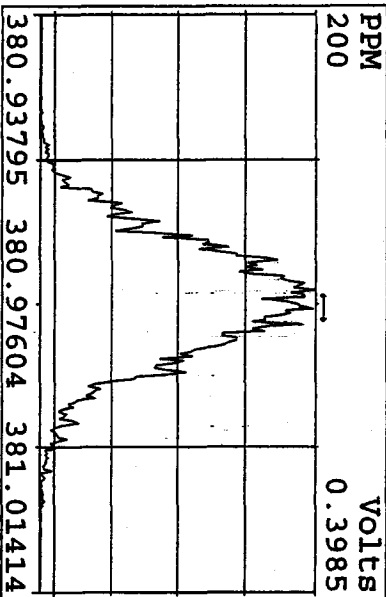
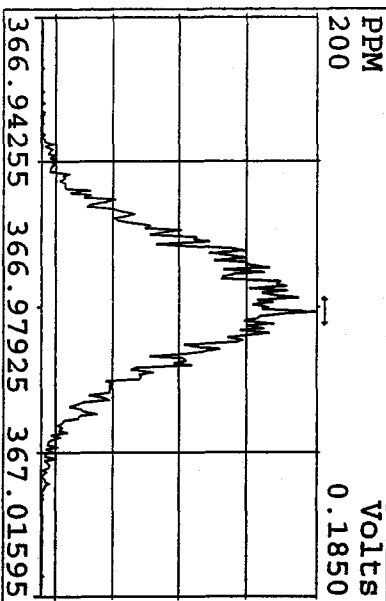
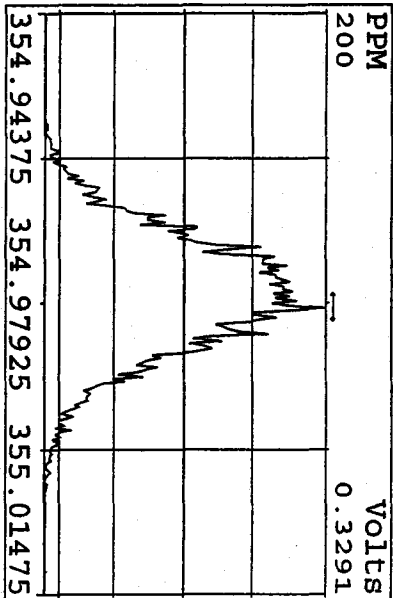
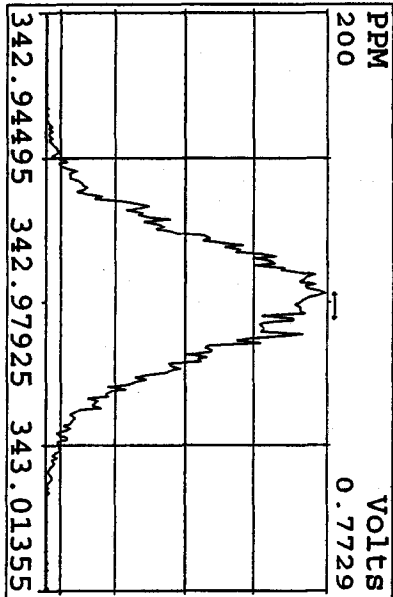
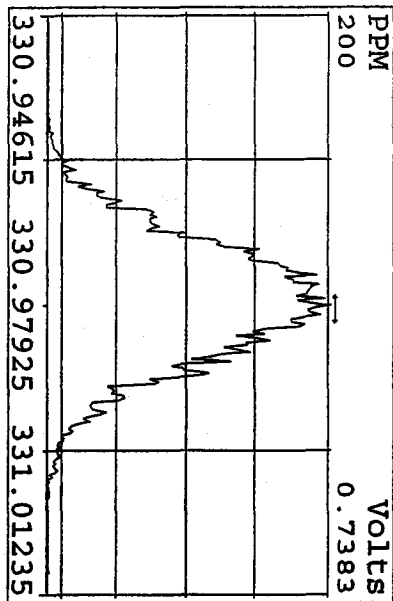
Peak Locate Examination: 22-DEC-2009: 21:25 File: 22DE09A4D5
 Experiment: DIOXIN Function: 5 Reference: PRK



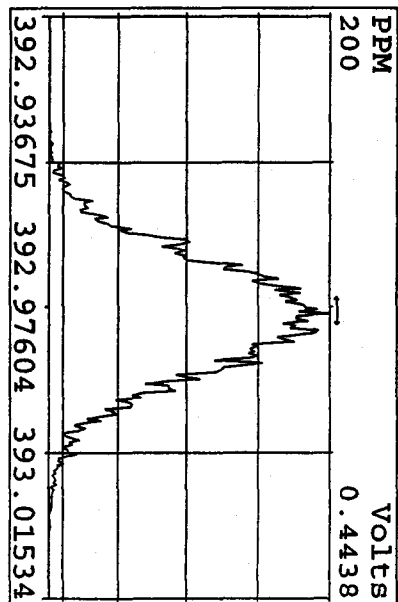
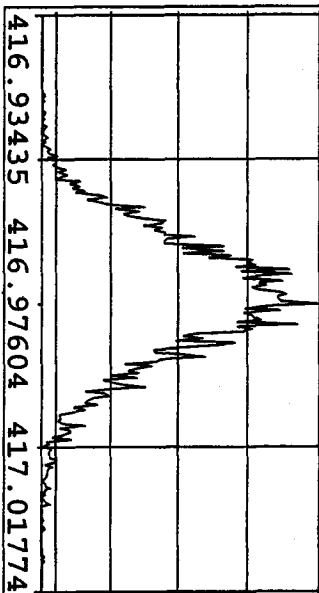
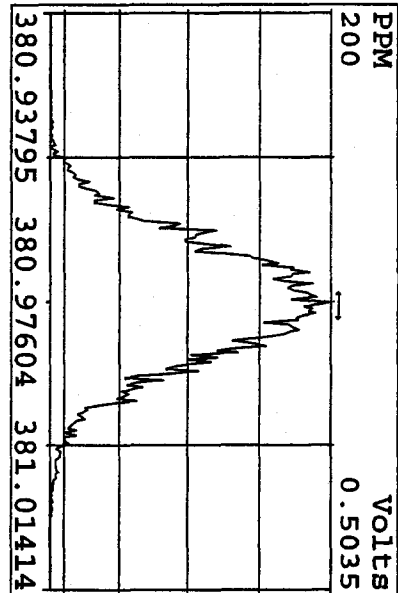
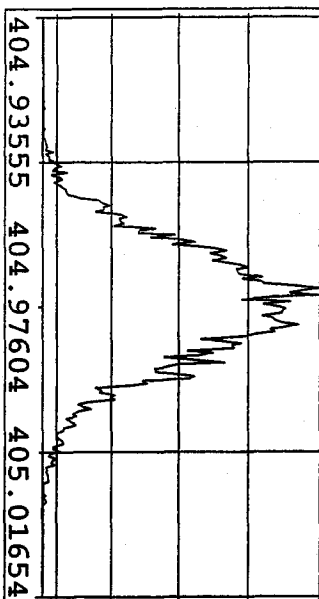
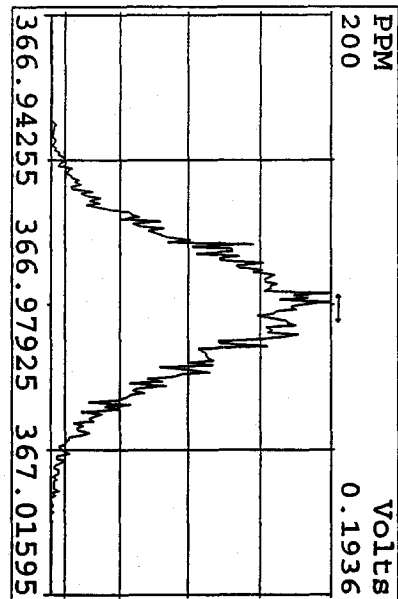
Peak Locate Examination: 23-DEC-2009: 08:41 File: ENDRS22DE09A4D5
Experiment: DIOXIN Function: 1 Reference: PK



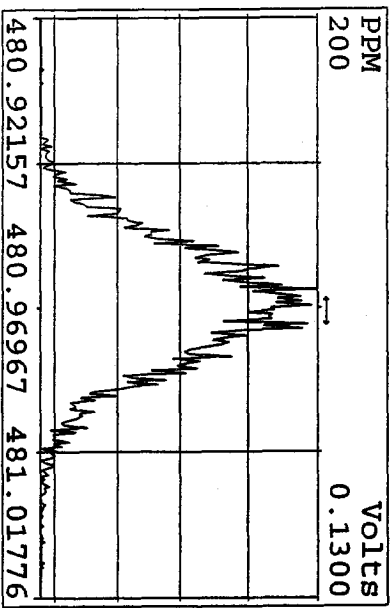
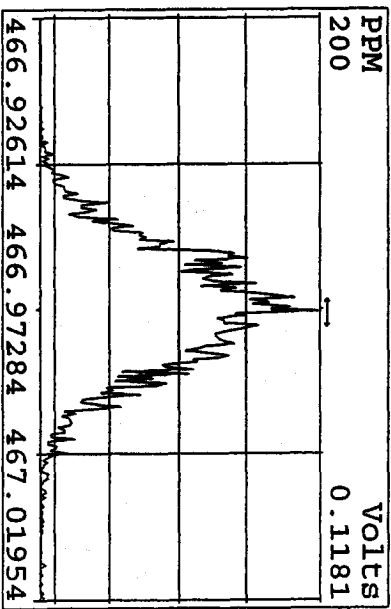
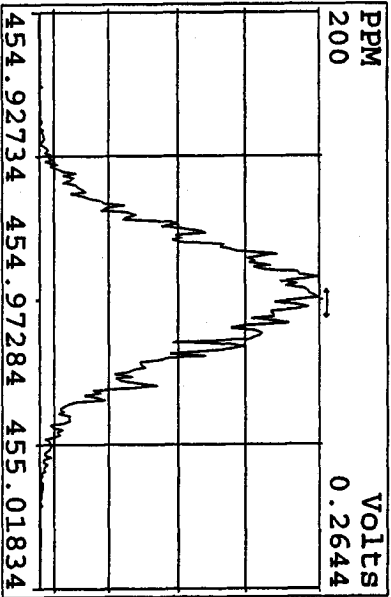
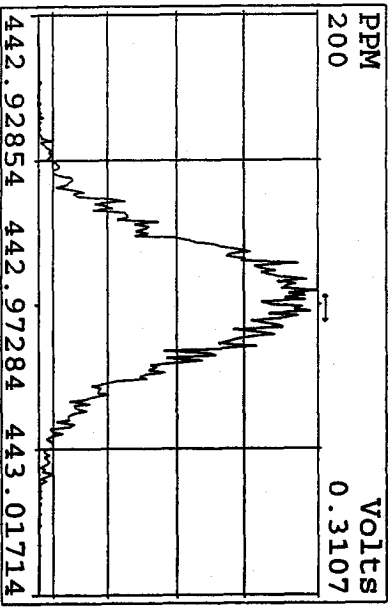
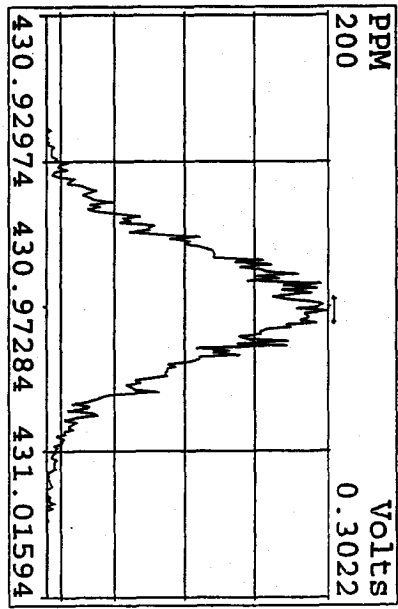
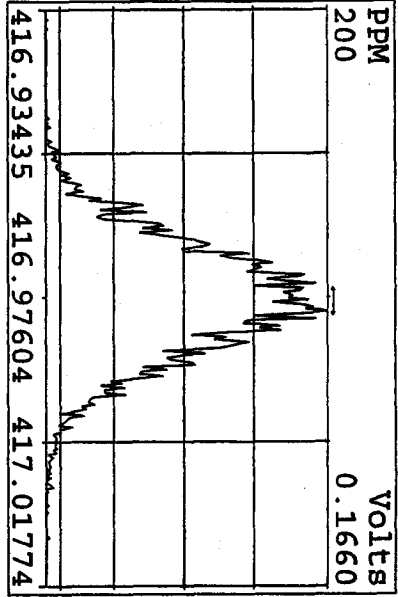
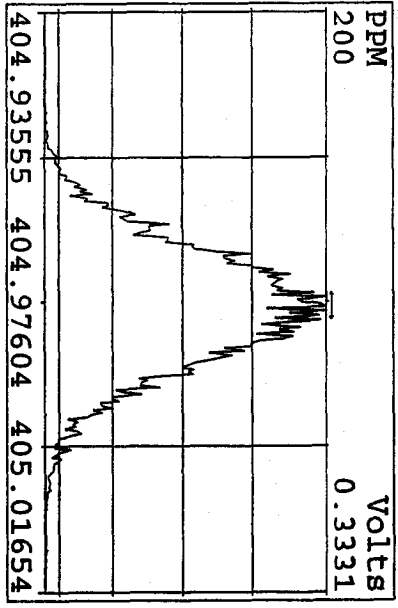
Peak Locate Examination: 23-DEC-2009:08:42 File: ENDRRES22DE09A4D5
 Experiment: DIOXIN Function: 2 Reference: PFK



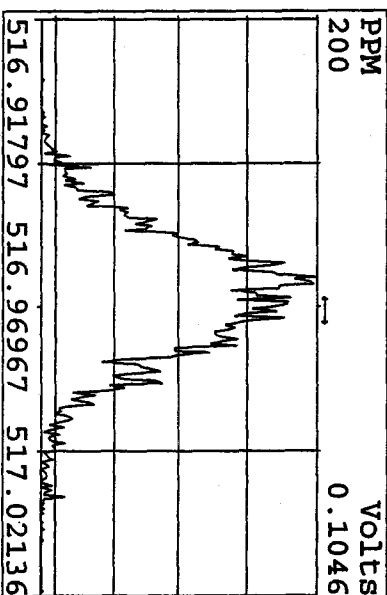
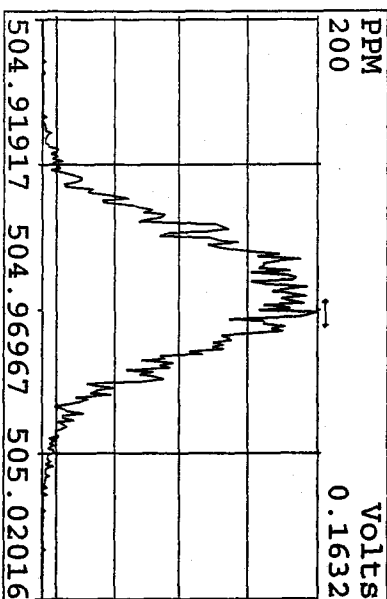
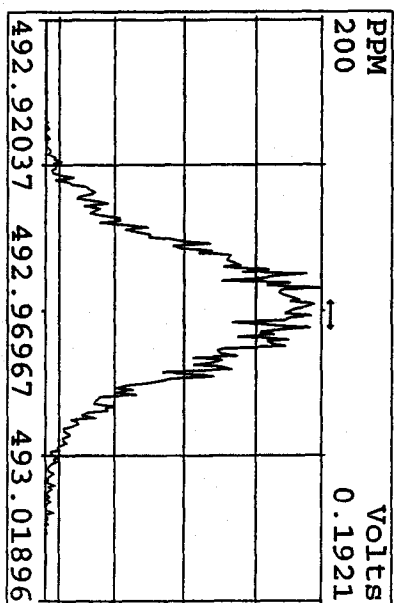
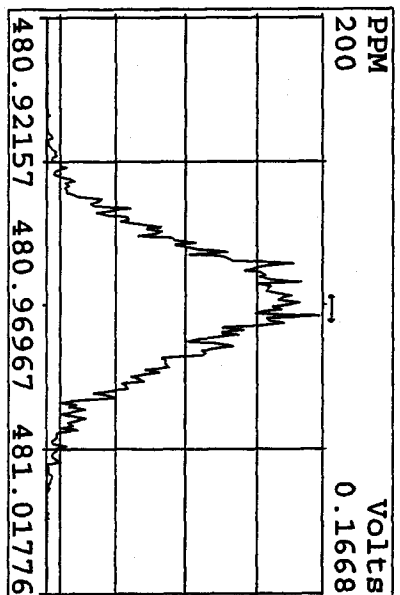
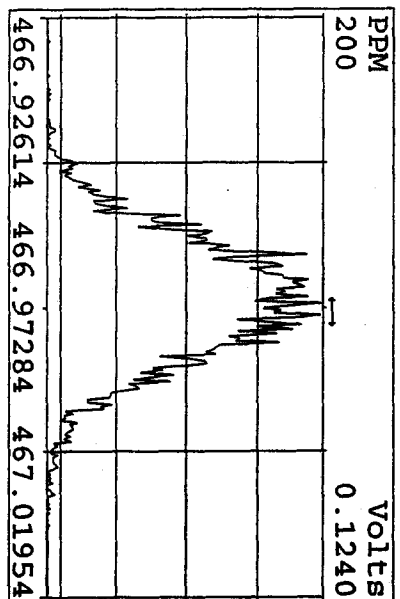
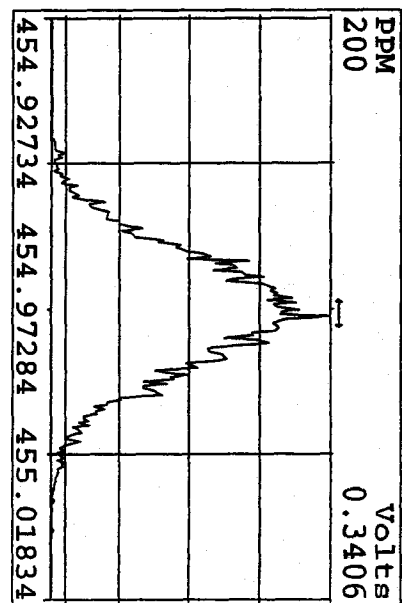
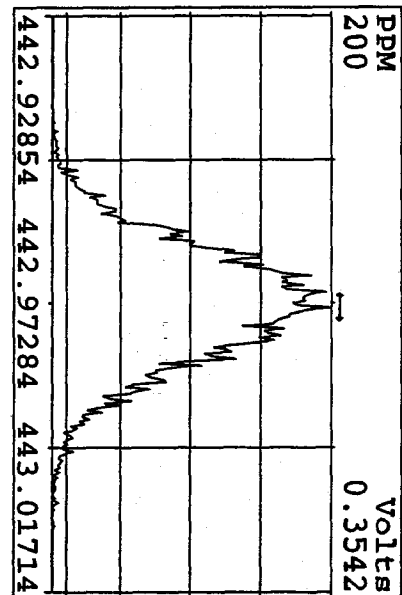
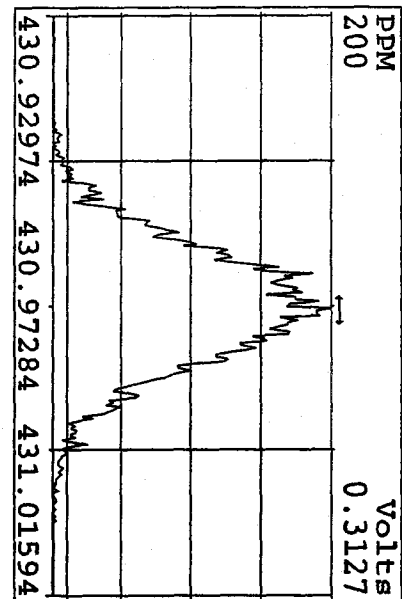
Peak Locate Examination: 23-DEC-2009: 08:42 File: ENDRSS22DE09A4D5
 Experiment: DIOXIN Function: 3 Reference: PFK



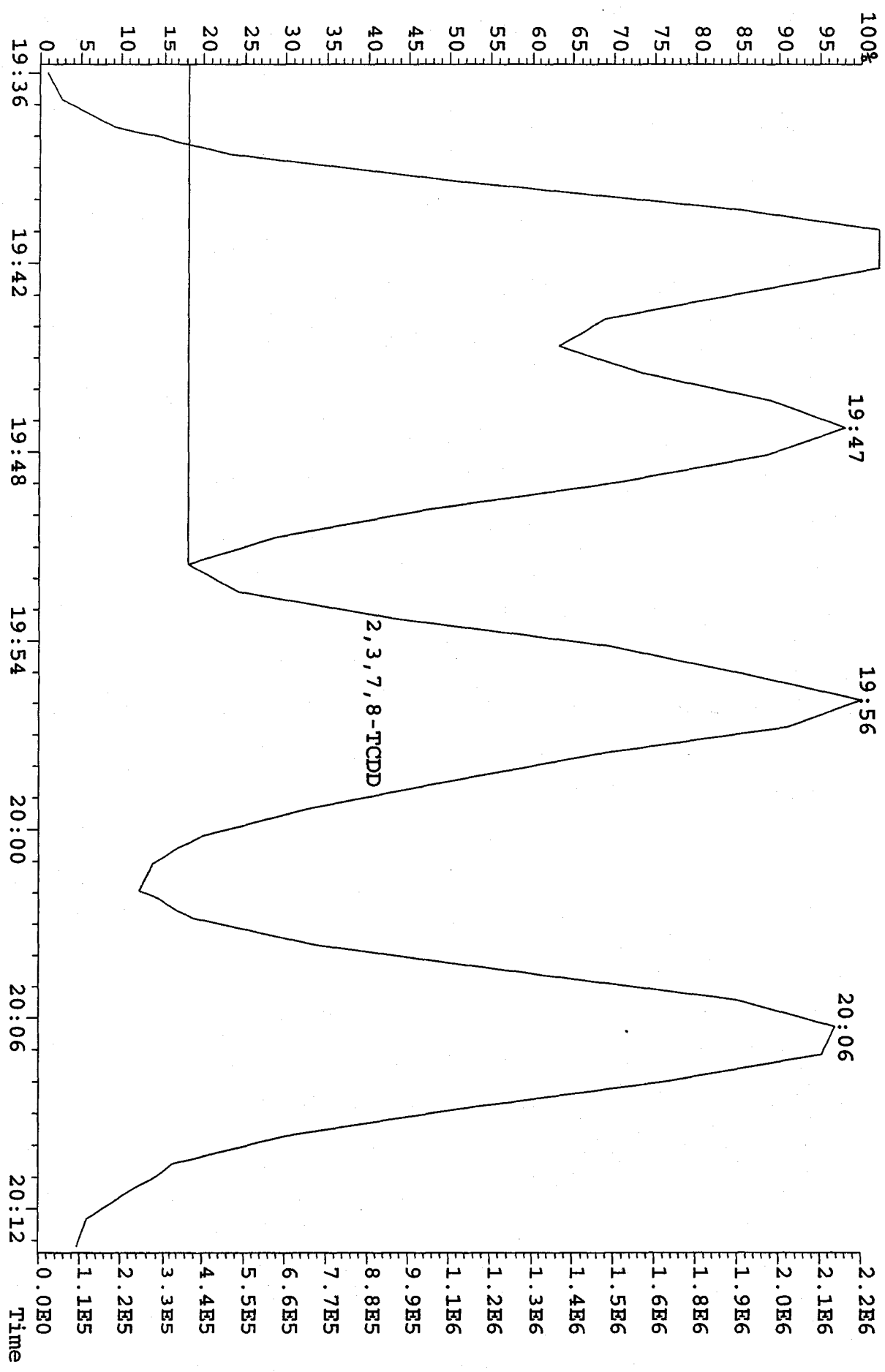
Peak Locate Examination: 23-DEC-2009:08:42 File: ENDRSS22DE09A4D5
 Experiment: DIOXIN Function: 4 Reference: PFK



Peak Locate Examination: 23-DEC-2009: 08:43 File: ENDRS22DE09A4D5
Experiment: DIOXIN Function: 5 Reference: PFK



File: 22DE09A4D5 #1-578 Acq: 22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text: CP1222A : DB-5 CPSM 3732-03 Exp: DIOXIN
 321.8936 S: 2



Run: 22DE09A4D5 Analyte: 8290

Cal: 82900916094D5

ST0916 : CS-1 09DXN236
ST0916C : CS-4 09DXN239

ST0916A : CS-2 09DXN237
ST0916D : CS-5 09DXN240

ST0916B : CS-3 09DXN238

16SE094D5 16SE094D5 16SE094D5 16SE094D5 16SE094D5

13C-1,2,3,4-TCDD
Name Mean S. D. %RSD

RRF1 RRF2 RRF3 RRF4 RRF5

13C-2,3,7,8-TCDF
1.459 0.063 4.33 %
2,3,7,8-TCDF 1.273 0.018 1.45 %
Total TCDF 1.273 0.018 1.45 %

1.42 1.50 1.38 1.47 1.54
1.26 1.25 1.28 1.30 1.28
1.26 1.25 1.28 1.30 1.28

13C-2,3,7,8-TCDD
0.923 0.042 4.50 %
2,3,7,8-TCDD 1.227 0.029 2.38 %
Total TCDD 1.227 0.029 2.38 %

0.89 0.93 0.88 0.93 0.98
1.20 1.20 1.23 1.25 1.27
1.20 1.20 1.23 1.25 1.27

37Cl-2,3,7,8-TCDD
2.515 0.152 6.03 %

2.35 2.48 2.47 2.51 2.77

13C-1,2,3,7,8-PeCDF
1.267 0.085 6.70 %
1,2,3,7,8-PeCDF 1.302 0.025 1.90 %
2,3,4,7,8-PeCDF 1.250 0.034 2.69 %
Total F2 PeCDF 1.276 0.029 2.28 %
Total F1 PeCDF 1.276 0.029 2.28 %

1.19 1.28 1.18 1.29 1.39
1.26 1.30 1.31 1.32 1.32
1.20 1.23 1.26 1.28 1.28
1.23 1.27 1.29 1.30 1.30
1.23 1.27 1.29 1.30 1.30

13C-1,2,3,7,8-PeCDD
0.772 0.056 7.24 %
1,2,3,7,8-PeCDD 1.241 0.030 2.44 %
Total PeCDD 1.241 0.030 2.44 %

0.72 0.78 0.72 0.79 0.85
1.20 1.22 1.25 1.27 1.26
1.20 1.22 1.25 1.27 1.26

13C-1,2,3,7,8-HxCDD
- - - - -

- - - - -

13C-1,2,3,4,7,8-HxCDF
1.187 0.035 2.92 %
1,2,3,4,7,8-HxCDF 1.307 0.031 2.37 %
1,2,3,6,7,8-HxCDF 1.412 0.039 2.75 %
2,3,4,6,7,8-HxCDF 1.334 0.033 2.51 %
1,2,3,7,8,9-HxCDF 1.195 0.052 4.39 %
Total HxCDF 1.312 0.032 2.40 %

1.16 1.23 1.21 1.14 1.20
1.27 1.32 1.27 1.33 1.33
1.46 1.39 1.37 1.44 1.40
1.36 1.33 1.28 1.36 1.33
1.17 1.18 1.13 1.27 1.23
1.32 1.31 1.26 1.35 1.32

13C-1,2,3,6,7,8-HxCDD
0.747 0.046 6.16 %
1,2,3,4,7,8-HxCDD 1.242 0.047 3.75 %

0.77 0.78 0.69 0.71 0.79
1.19 1.21 1.31 1.26 1.23

1,2,3,6,7,8-HxCDD	1.479	0.113	7.64 %	1.34	1.48	1.59	1.60	1.39
1,2,3,7,8-HxCDD	1.473	0.089	6.01 %	1.41	1.41	1.54	1.60	1.40
Total HxCDD	1.398	0.078	5.60 %	1.32	1.37	1.48	1.48	1.34
13C-1,2,3,4,6,7,8-HpCDF	0.913	0.028	3.08 %	0.91	0.93	0.88	0.90	0.95
1,2,3,4,6,7,8-HpCDF	1.595	0.021	1.32 %	1.56	1.59	1.61	1.62	1.59
1,2,3,4,7,8,9-HpCDF	1.331	0.063	4.73 %	1.25	1.29	1.36	1.36	1.40
Total HpCDF	1.463	0.040	2.72 %	1.41	1.44	1.49	1.49	1.50
13C-1,2,3,4,6,7,8-HpCDD	0.714	0.028	3.95 %	0.70	0.73	0.69	0.69	0.76
1,2,3,4,6,7,8-HpCDD	1.307	0.033	2.51 %	1.27	1.27	1.32	1.34	1.33
Total HpCDD	1.307	0.033	2.51 %	1.27	1.27	1.32	1.34	1.33
13C-OCDD	0.606	0.053	8.81 %	0.56	0.59	0.58	0.61	0.70
OCDF	1.509	0.127	8.40 %	1.35	1.42	1.51	1.62	1.65
OCDD	1.194	0.018	1.52 %	1.16	1.20	1.20	1.21	1.20

Daily Calibration Checklist
Dioxin Methods

Method ID 8290

Associated ICAL 8290091669405

Column ID DB5

Instrument ID 405

STD ID ST1223, ST122A

STD Solution C53 09 0XN384

Analyzed by KSS

Date Analyzed 12/23/09

Std. Pkg. By KSS

Date Std. Pkg. Assembled 12/24/09

Std. Pkg. Reviewed By [Signature]

Date Std. Pkg. Reviewed 12/24/09

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 ✓	✓
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?	✓	✓
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	N/A

COMMENTS: ① Ending CV ST122A > 4.20%, < 4.25% for 1,2,3,6,7,8 HxCDF and 1,2,3,4,7,8-HxCDD see NCM # 07-0100970
(ave PRF = 1.64) (ave PRF = 1.05)

* 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: ST1223 File text: CS3 09DXN384
 Run #6 Filename 23DE094D5 S: 1 I: 1
 Acquired: 23-DEC-09 08:45:43 Processed: 23-DEC-09 09:26:12
 Run: ICAL Analyte: 8290 Cal: 82900916094D5 Results: 23DE094D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	76813500	0.82 y	19:41	-	100.00	-	n
13C-2,3,7,8-TCDF	115888100	0.81 y	19:07	1.51	100.00	3.4	n
2,3,7,8-TCDF	14773770	0.80 y	19:08	1.27	10.00	0.1	n
Total TCDF	15014391	0.76 y	18:11	1.27	10.00	0.1	n
13C-2,3,7,8-TCDD	70646200	0.80 y	19:55	0.92	100.00	-0.3	n
2,3,7,8-TCDD	9103720	0.79 y	19:57	1.29	10.00	5.0	n
Total TCDD	9193566	2.30 n	16:45	1.29	10.00	5.0	n
37Cl-2,3,7,8-TCDD	19717040	1.00 y	19:57	2.57	10.00	2.0	n
13C-1,2,3,7,8-PeCDF	76084600	1.58 y	24:53	0.99	100.00	-21.8	n
1,2,3,7,8-PeCDF	51523300	1.54 y	24:56	1.35	50.00	4.0	n
2,3,4,7,8-PeCDF	50009100	1.52 y	26:27	1.31	50.00	5.2	n
Total F2 PeCDF	102459943	0.65 n	23:19	1.33	100.00	4.6	n
Total F1 PeCDF	126572	0.45 n	14:12	1.33	100.00	4.6	n
13C-1,2,3,7,8-PeCDD	45579500	1.54 y	27:15	0.59	100.00	-23.2	n
1,2,3,7,8-PeCDD	28753100	1.63 y	27:16	1.26	50.00	1.6	n
Total PeCDD	28770785	3.56 n	24:53	1.26	50.00	1.6	n
13C-1,2,3,7,8,9-HxCDD	59092900	1.27 y	33:14	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	66180500	0.52 y	32:06	1.12	100.00	-5.7	n
1,2,3,4,7,8-HxCDF	44376000	1.21 y	32:07	1.34	50.00	2.6	n
1,2,3,6,7,8-HxCDF	51472300	1.24 y	32:14	1.56	50.00	10.1	n
2,3,4,6,7,8-HxCDF	47434500	1.21 y	32:46	1.43	50.00	7.5	n
1,2,3,7,8,9-HxCDF	39032200	1.24 y	33:25	1.18	50.00	-1.3	n
Total HxCDF	182315000	1.21 y	32:07	1.38	200.00	5.0	n
13C-1,2,3,6,7,8-HxCDD	45813500	1.32 y	32:57	0.78	100.00	3.8	n
1,2,3,4,7,8-HxCDD	26662200	1.25 y	32:54	1.16	50.00	-6.3	n
1,2,3,6,7,8-HxCDD	35621800	1.27 y	32:58	1.56	50.00	5.1	n
1,2,3,7,8,9-HxCDD	32961100	1.25 y	33:15	1.44	50.00	-2.3	n
Total HxCDD	95245100	1.25 y	32:54	1.39	150.00	-0.9	n
13C-1,2,3,4,6,7,8-HpCDF	52312400	0.44 y	34:45	0.89	100.00	-3.1	n
1,2,3,4,6,7,8-HpCDF	41161500	1.03 y	34:45	1.57	50.00	-1.3	n
1,2,3,4,7,8,9-HpCDF	30047100	1.04 y	35:54	1.15	50.00	-13.7	n
Total HpCDF	71654049	1.03 y	34:45	1.36	100.00	-7.0	n
13C-1,2,3,4,6,7,8-HpCDD	38557200	1.08 y	35:34	0.65	100.00	-8.6	n
1,2,3,4,6,7,8-HpCDD	25624600	1.05 y	35:34	1.33	50.00	1.7	n
Total HpCDD	25881370	0.82 n	35:00	1.33	50.00	1.7	n
13C-OCDD	63954100	0.90 y	38:05	0.54	200.00	-10.7	n
OCDF	47829300	0.91 y	38:13	1.50	100.00	-0.9	n
OCDD	38217500	0.90 y	38:06	1.20	100.00	0.1	n

Run text: ST1222A File text: ST1222A :CS3 09DXN384
 Run #14 Filename 23DE094D5 S: 15 I: 1
 Acquired: 23-DEC-09 19:02:12 Processed: 23-DEC-09 19:51:57
 Run: 23DE094D5 Analyte: 8290 Cal: 82900916094D5 Results: 23DE094D58290

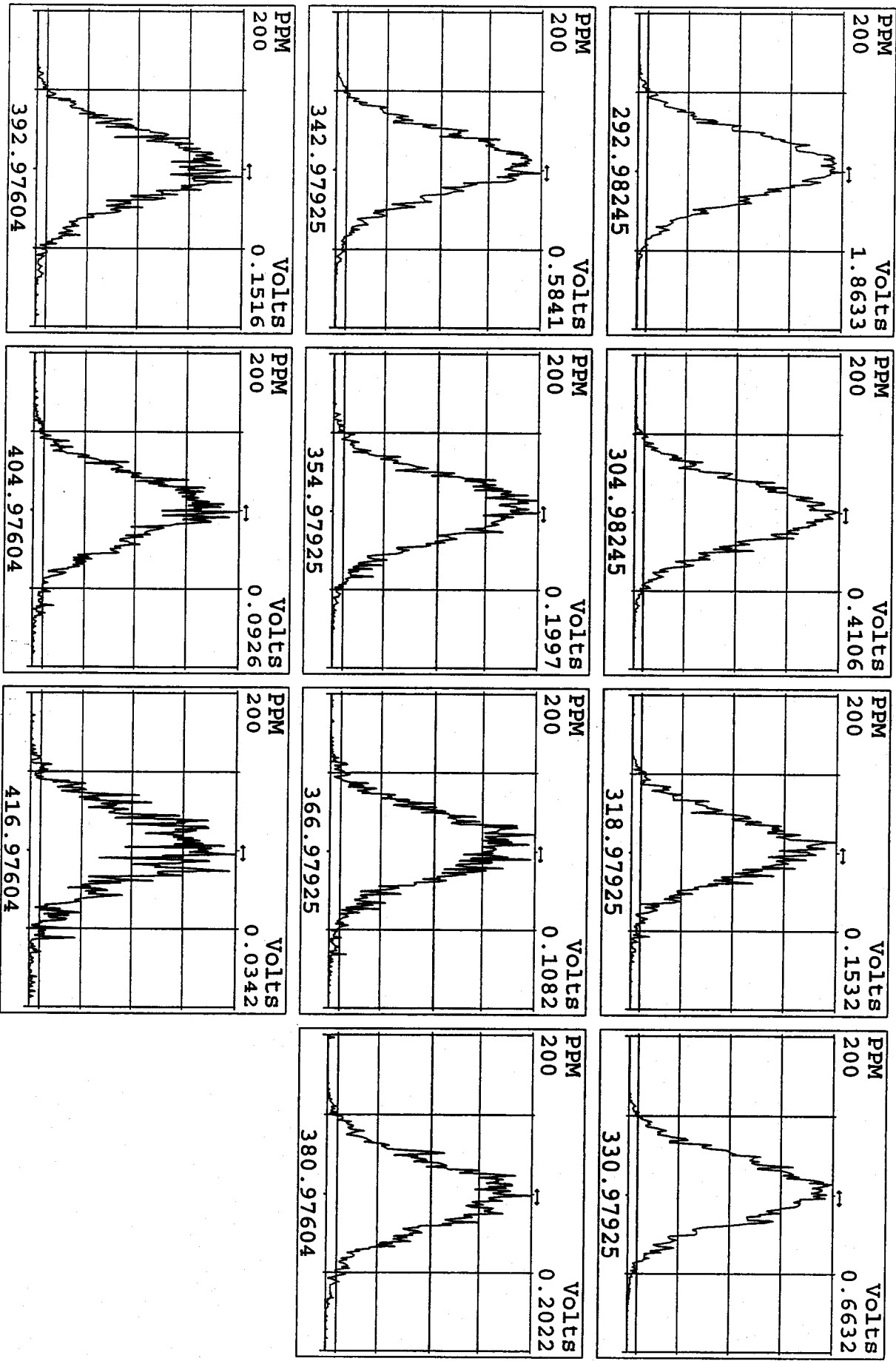
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	55397900	0.83 y	19:41	-	100.00	-	n
13C-2,3,7,8-TCDF	80012400	0.80 y	19:08	1.44	100.00	-1.0	n
2,3,7,8-TCDF	9678760	0.79 y	19:09	1.21	10.00	-5.0	n
Total TCDF	9788775	0.19 n	17:17	1.21	10.00	-5.0	n
13C-2,3,7,8-TCDD	51147800	0.82 y	19:55	0.92	100.00	0.0	n
2,3,7,8-TCDD	6141000	0.76 y	19:56	1.20	10.00	-2.1	n
Total TCDD	6237952	0.76 y	19:56	1.20	10.00	-2.1	n
37Cl-2,3,7,8-TCDD	13830700	1.00 y	19:56	2.50	10.00	-0.7	n
13C-1,2,3,7,8-PeCDF	55484600	1.60 y	24:54	1.00	100.00	-20.9	n
1,2,3,7,8-PeCDF	37196900	1.55 y	24:56	1.34	50.00	3.0	n
2,3,4,7,8-PeCDF	35421400	1.53 y	26:27	1.28	50.00	2.2	n
Total F2 PeCDF	72989069	1.55 y	24:56	1.31	100.00	2.6	n
Total F1 PeCDF	91024	0.43 n	14:14	1.31	100.00	2.6	n
13C-1,2,3,7,8-PeCDD	32254400	1.55 y	27:15	0.58	100.00	-24.6	n
1,2,3,7,8-PeCDD	20591750	1.59 y	27:18	1.28	50.00	2.9	n
Total PeCDD	20688903	1.02 n	24:52	1.28	50.00	2.9	n
13C-1,2,3,7,8,9-HxCDD	40339500	1.23 y	33:14	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	44275800	0.52 y	32:06	1.10	100.00	-7.6	n
1,2,3,4,7,8-HxCDF	28147600	1.18 y	32:07	1.27	50.00	-2.7	n
1,2,3,6,7,8-HxCDF	38109500	1.21 y	32:13	1.72	50.00	21.9	n
2,3,4,6,7,8-HxCDF	32670300	1.23 y	32:47	1.48	50.00	10.6	n
1,2,3,7,8,9-HxCDF	25707400	1.22 y	33:26	1.16	50.00	-2.9	n
Total HxCDF	124744360	1.02 n	31:04	1.41	200.00	7.3	n
13C-1,2,3,6,7,8-HxCDD	35480900	1.29 y	32:57	0.88	100.00	17.8	n
1,2,3,4,7,8-HxCDD	16590180	1.25 y	32:54	0.94	50.00	-24.7	y
1,2,3,6,7,8-HxCDD	24785200	1.28 y	32:59	1.40	50.00	-5.6	y
1,2,3,7,8,9-HxCDD	23198100	1.27 y	33:14	1.31	50.00	-11.2	n
Total HxCDD	64673915	1.25 y	32:54	1.21	150.00	-13.2	y
13C-1,2,3,4,6,7,8-HpCDF	37278500	0.43 y	34:45	0.92	100.00	1.2	n
1,2,3,4,6,7,8-HpCDF	29442800	1.02 y	34:45	1.58	50.00	-1.0	n
1,2,3,4,7,8,9-HpCDF	21002300	1.02 y	35:54	1.13	50.00	-15.4	n
Total HpCDF	50445100	1.02 y	34:45	1.35	100.00	-7.5	n
13C-1,2,3,4,6,7,8-HpCDD	27298000	1.05 y	35:34	0.68	100.00	-5.2	n
1,2,3,4,6,7,8-HpCDD	18059010	1.05 y	35:35	1.32	50.00	1.2	n
Total HpCDD	18166829	1.04 y	35:01	1.32	50.00	1.2	n
13C-OCDD	45411100	0.90 y	38:06	0.56	200.00	-7.1	n
OCDF	33241800	0.92 y	38:13	1.46	100.00	-3.0	n
OCDD	26907400	0.88 y	38:07	1.19	100.00	-0.7	n

Run text: ST1222A File text: ST1222A :CS3 09DXN384
 Run #14 Filename 23DE094D5 S: 15 I: 1
 Acquired: 23-DEC-09 19:02:12 Processed: 23-DEC-09 19:51:57
 Run: 23DE094D5 Analyte: 8290 Cal: 82900916094D5 Results: 23DE094D58290

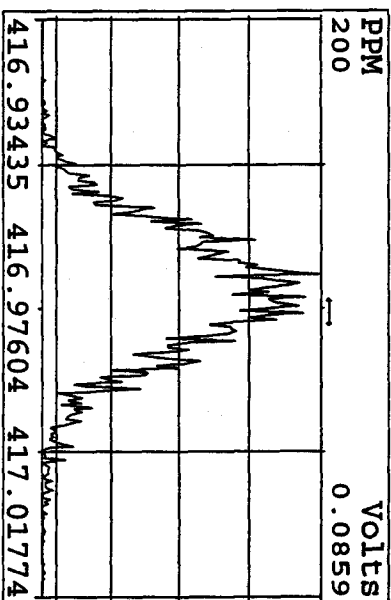
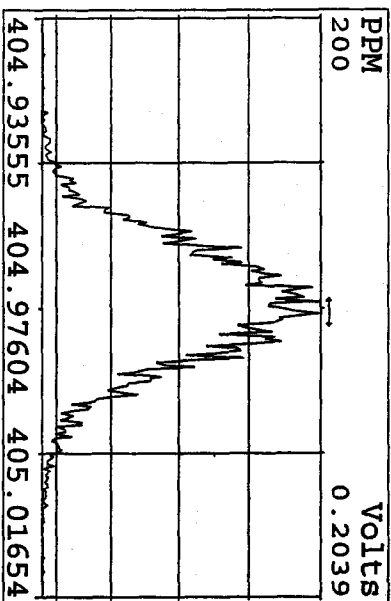
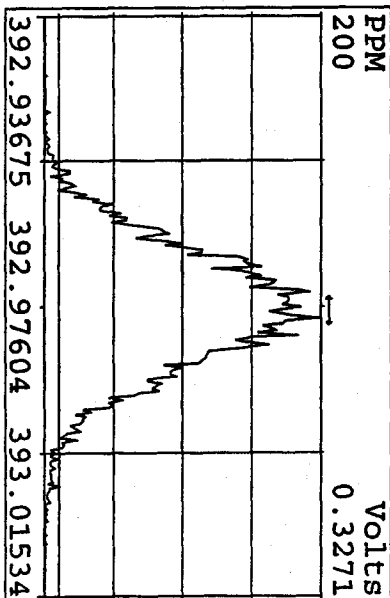
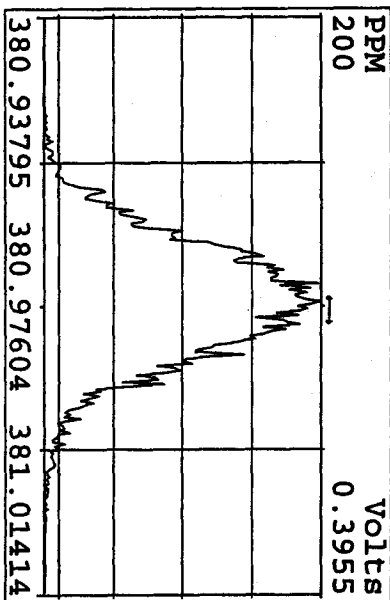
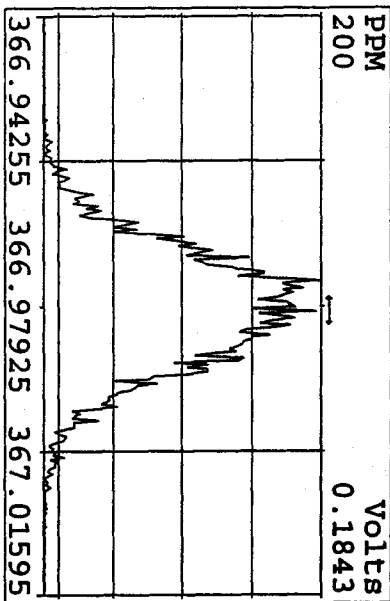
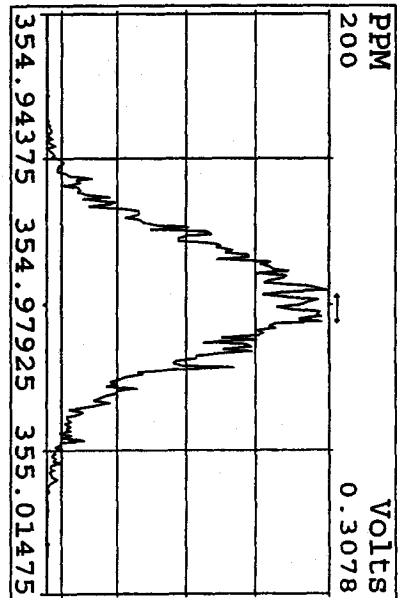
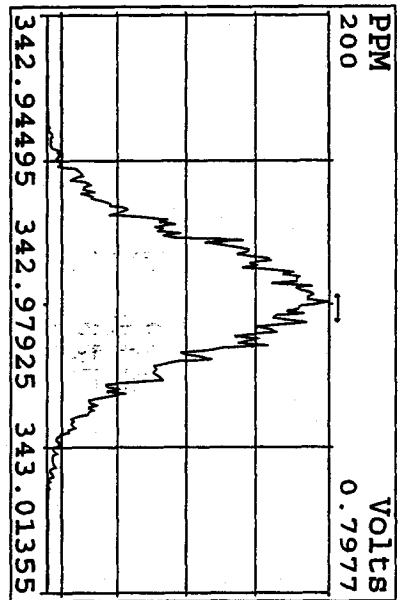
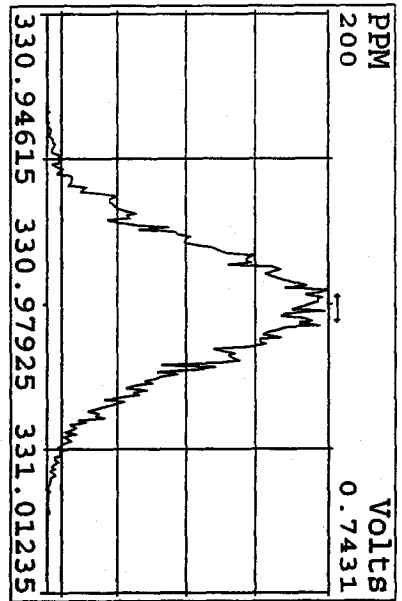
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	55397900	0.83 y	19:41	-	100.00	-	n
13C-2,3,7,8-TCDF	80012400	0.80 y	19:08	1.44	100.00	-1.0	n
2,3,7,8-TCDF	9678760	0.79 y	19:09	1.21	10.00	-5.0	n
Total TCDF	9788775	0.19 n	17:17	1.21	10.00	-5.0	n
13C-2,3,7,8-TCDD	51147800	0.82 y	19:55	0.92	100.00	0.0	n
2,3,7,8-TCDD	6141000	0.76 y	19:56	1.20	10.00	-2.1	n
Total TCDD	6237952	0.76 y	19:56	1.20	10.00	-2.1	n
37Cl-2,3,7,8-TCDD	13830700	1.00 y	19:56	2.50	10.00	-0.7	n
13C-1,2,3,7,8-PeCDF	55484600	1.60 y	24:54	1.00	100.00	-20.9	n
1,2,3,7,8-PeCDF	37196900	1.55 y	24:56	1.34	50.00	3.0	n
2,3,4,7,8-PeCDF	35421400	1.53 y	26:27	1.28	50.00	2.2	n
Total F2 PeCDF	72989069	1.55 y	24:56	1.31	100.00	2.6	n
Total F1 PeCDF	91024	0.43 n	14:14	1.31	100.00	2.6	n
13C-1,2,3,7,8-PeCDD	32254400	1.55 y	27:15	0.58	100.00	-24.6	n
1,2,3,7,8-PeCDD	20591750	1.59 y	27:18	1.28	50.00	2.9	n
Total PeCDD	20688903	1.02 n	24:52	1.28	50.00	2.9	n
13C-1,2,3,7,8,9-HxCDD	40339500	1.23 y	33:14	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	44275800	0.52 y	32:06	1.10	100.00	-7.6	n
1,2,3,4,7,8-HxCDF	28147600	1.18 y	32:07	1.27	50.00	-2.7	n
1,2,3,6,7,8-HxCDF	38109500	1.21 y	32:13	1.72	50.00	21.9	n
2,3,4,6,7,8-HxCDF	32670300	1.23 y	32:47	1.48	50.00	10.6	n
1,2,3,7,8,9-HxCDF	25707400	1.22 y	33:26	1.16	50.00	-2.9	n
Total HxCDF	124744360	1.02 n	31:04	1.41	200.00	7.3	n
13C-1,2,3,6,7,8-HxCDD	35480900	1.29 y	32:57	0.88	100.00	17.8	n
1,2,3,4,7,8-HxCDD	15204660	1.25 y	32:54	0.86	50.00	-31.0	n
1,2,3,6,7,8-HxCDD	26137900	1.27 y	32:59	1.47	50.00	-0.4	n
1,2,3,7,8,9-HxCDD	23198100	1.27 y	33:14	1.31	50.00	-11.2	n
Total HxCDD	64641086	1.25 y	32:54	1.21	150.00	-13.3	n
13C-1,2,3,4,6,7,8-HpCDF	37278500	0.43 y	34:45	0.92	100.00	1.2	n
1,2,3,4,6,7,8-HpCDF	29442800	1.02 y	34:45	1.58	50.00	-1.0	n
1,2,3,4,7,8,9-HpCDF	21002300	1.02 y	35:54	1.13	50.00	-15.4	n
Total HpCDF	50445100	1.02 y	34:45	1.35	100.00	-7.5	n
13C-1,2,3,4,6,7,8-HpCDD	27298000	1.05 y	35:34	0.68	100.00	-5.2	n
1,2,3,4,6,7,8-HpCDD	18059010	1.05 y	35:35	1.32	50.00	1.2	n
Total HpCDD	18166829	1.04 y	35:01	1.32	50.00	1.2	n
13C-OCDD	45411100	0.90 y	38:06	0.56	200.00	-7.1	n
OCDF	33241800	0.92 y	38:13	1.46	100.00	-3.0	n
OCDD	26907400	0.88 y	38:07	1.19	100.00	-0.7	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
23DE094D5	1	ST1223	CS3 09DXN384				1.00000	
23DE094D5	2	CP1223	DB-5 CPSM 3732-03				1.00000	
23DE094D5	3	SB1223	Solvent Blank C-14				1.00000	
23DE094D5	4	LPL78-1-AA	G9K170576-1	20	8290/WATER	36	1.01660	L
23DE094D5	5	LRFP3-1-ACC	G9L210000-263 (506-1LCS)	20	1613B/WATER	71	1.00000	L
23DE094D5	6	LRFP3-1-AAB	G9L210000-263 (506-1MB)	20	1613B/WATER		1.00000	L
23DE094D5	7	LQV0W-1-AA	G9L100506-1	20	1613B/WATER		1.03340	L
23DE094D5	8	LQV20-1-AA	G9L100517-1	20	1613B/WATER		1.04680	L
23DE094D5	9	LQ2LC-2-AC	G9L120491-6RX ✓	10	8290/SOLID	70	10.18000	g
23DE094D5	10	LQ2LD-2-AC	G9L120491-7RX ✓	10	8290/SOLID		10.00000	g
23DE094D5	11	LQ2LE-2-AC	G9L120491-8RX ✓	10	8290/SOLID		10.13000	g
23DE094D5	12	LQ2LE-2-AD	G9L120491-8SRX ✓	10	8290/SOLID		10.19000	g
23DE094D5	13	LQ2LE-2-AE	G9L120491-8DRX ✓	10	8290/SOLID		10.12000	g
23DE094D5	14	SB1223A	Solvent Blank C-14				1.00000	
23DE094D5	15	ST1222A	CS3 09DXN384				1.00000	
23DE094D5	16						1.00000	
23DE094D5	17						1.00000	
23DE094D5	18						1.00000	
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23DE094D5	20						1.00000	
23DE094D5	21		KSS, AVP, AM 12-23-09				1.00000	

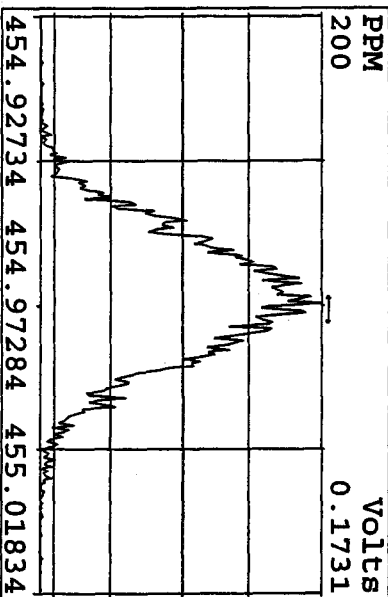
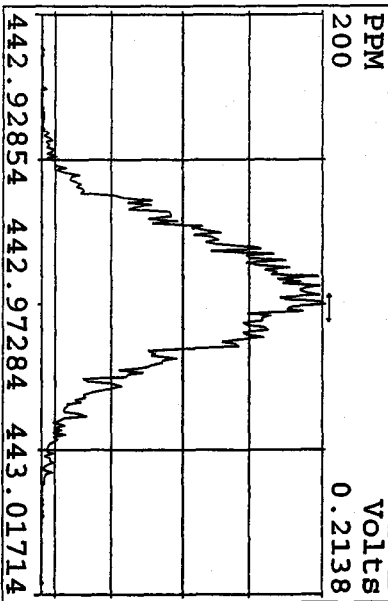
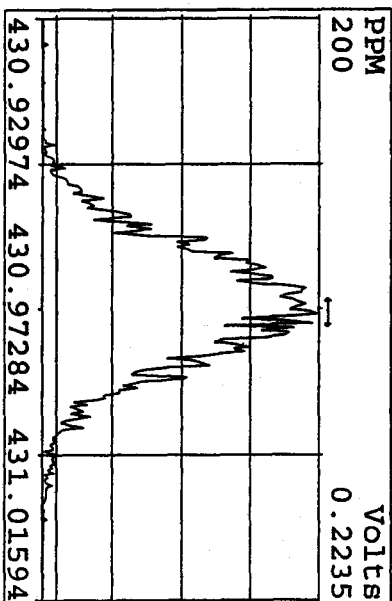
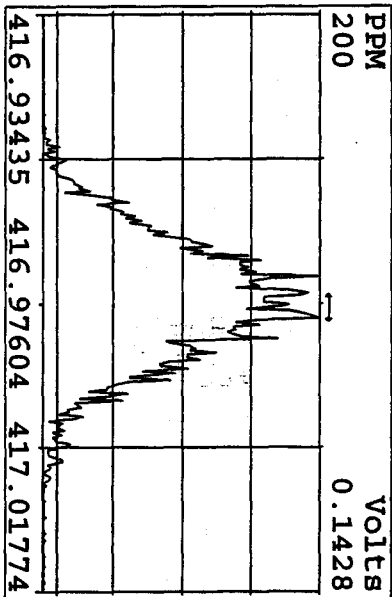
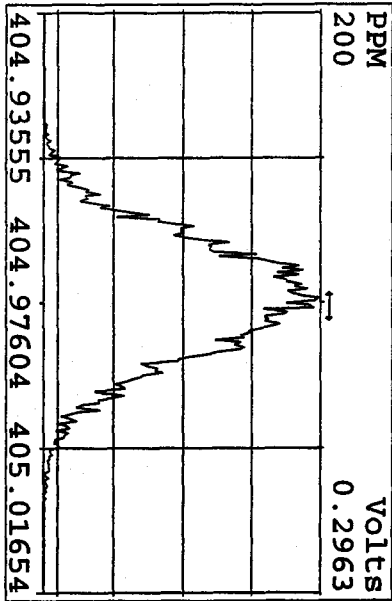
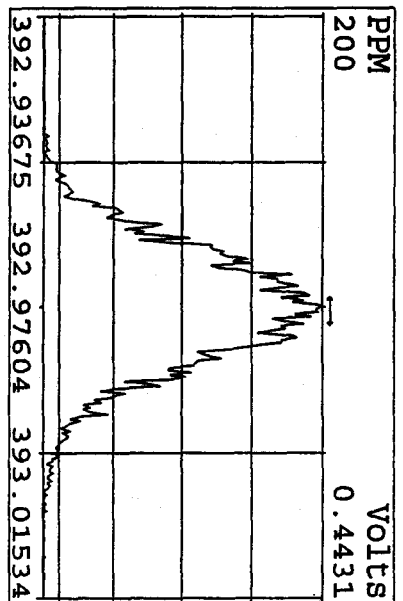
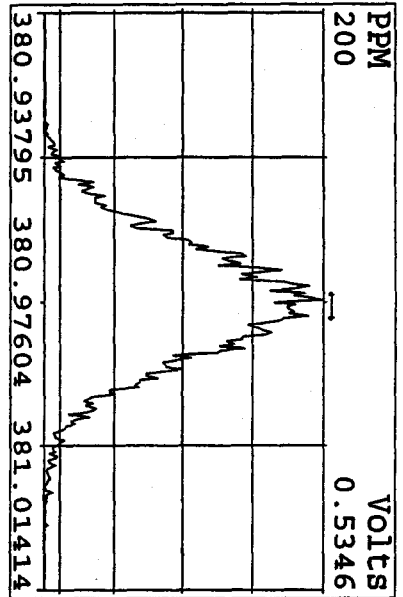
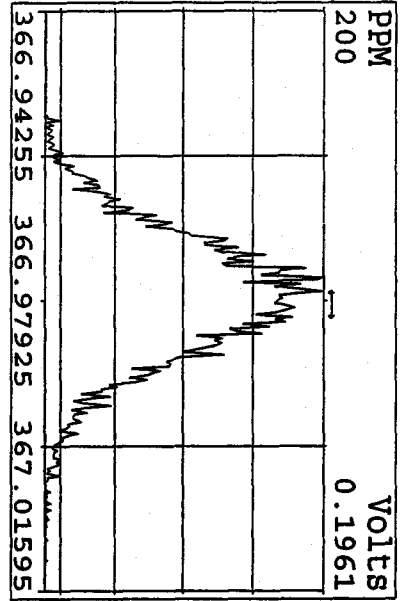
Peak Locate Examination: 23-DEC-2009: 08:43 File: 23DE094D5
Experiment: DIOXIN Function: 1 Reference: PFK



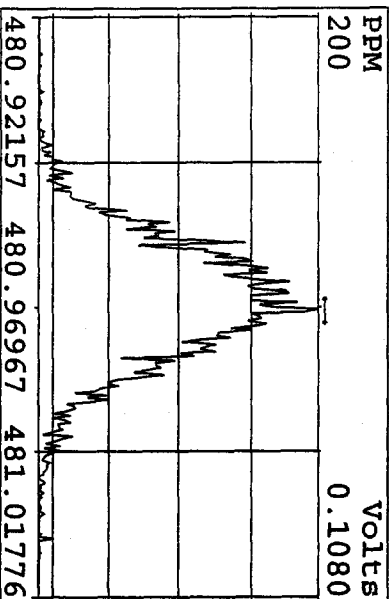
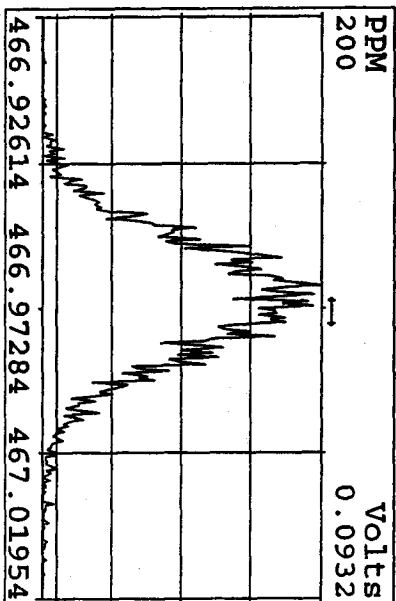
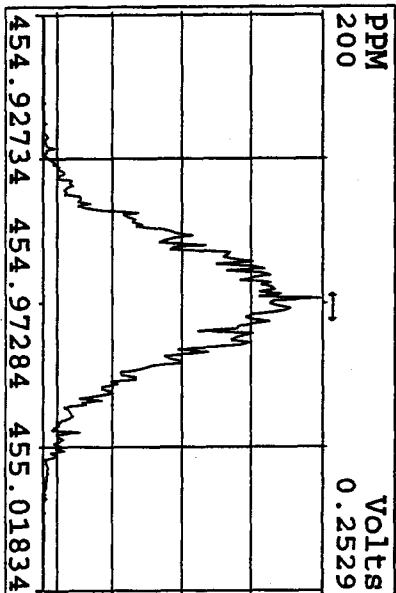
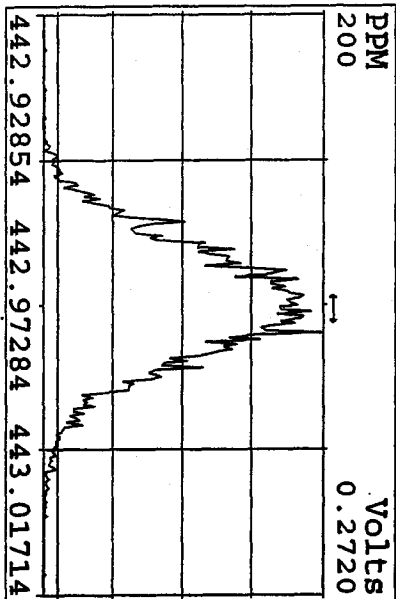
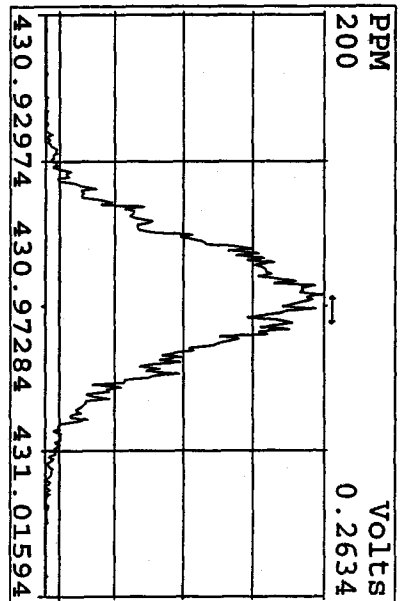
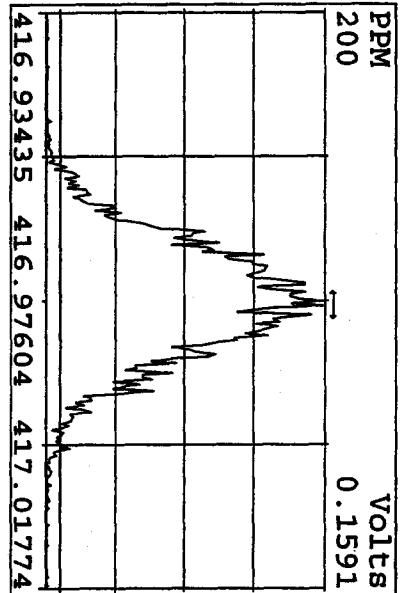
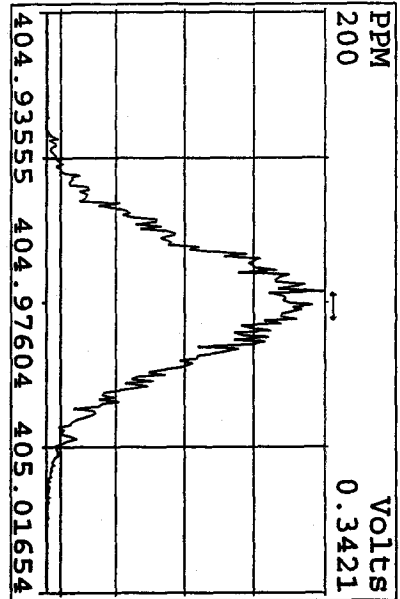
Peak Locate Examination: 23-DEC-2009:08:44 File: 23DDE094DS
 Experiment: DIOXIN Function: 2 Reference: PFK



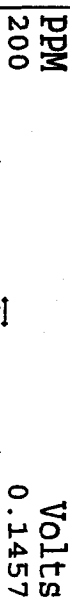
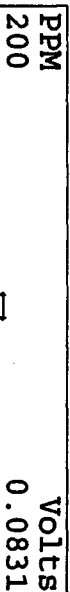
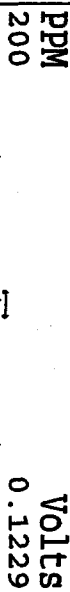
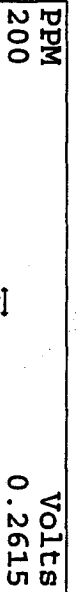
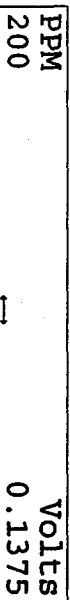
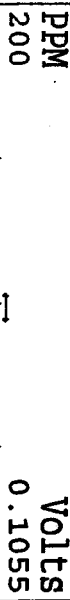
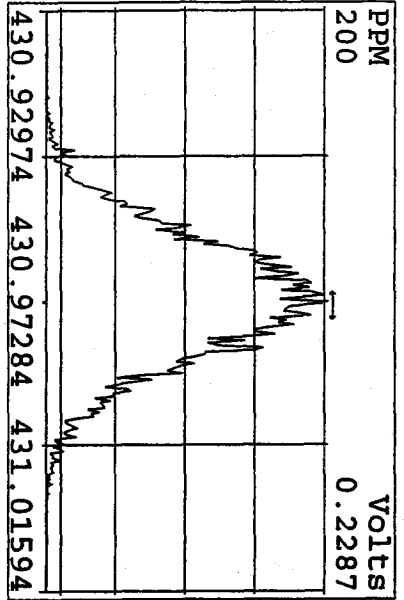
Peak Locate Examination: 23-DEC-2009: 08:44 File: 23DE094D5
 Experiment: DIOXIN Function: 3 Reference: PFK



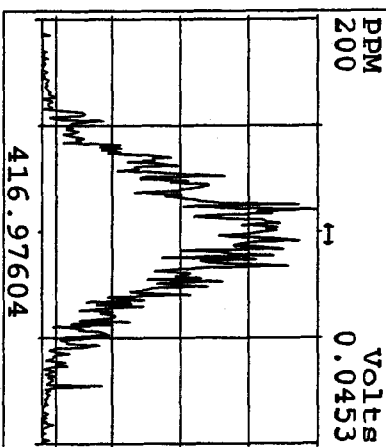
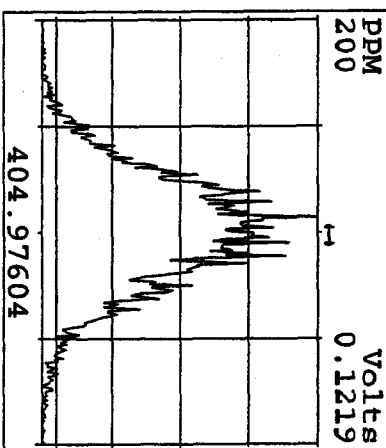
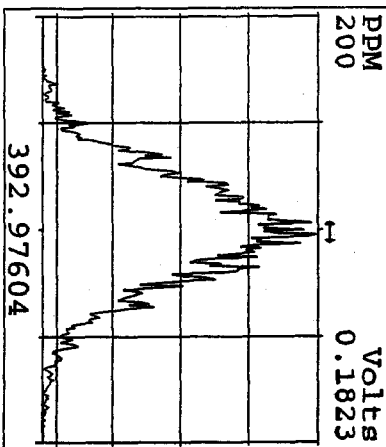
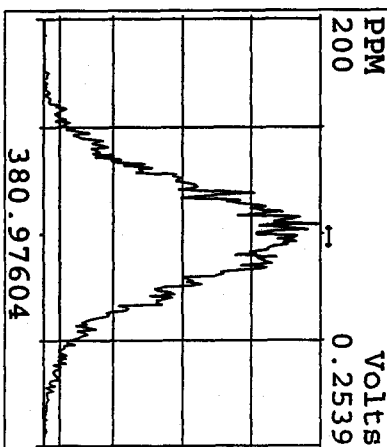
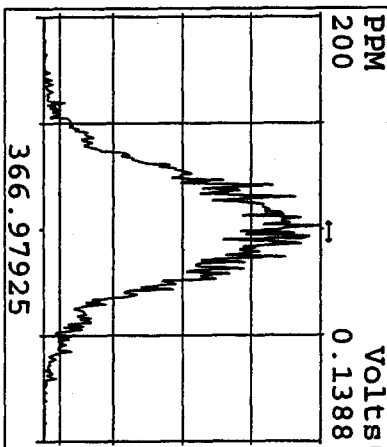
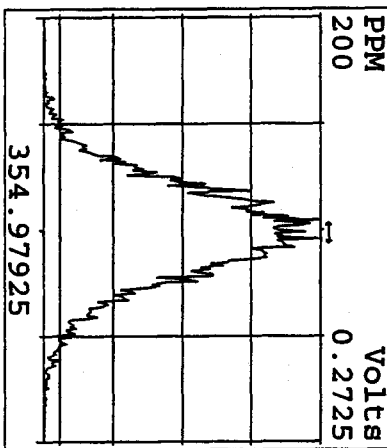
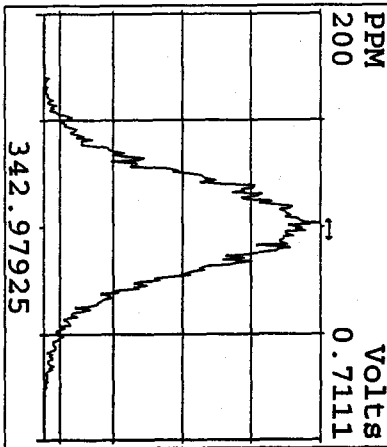
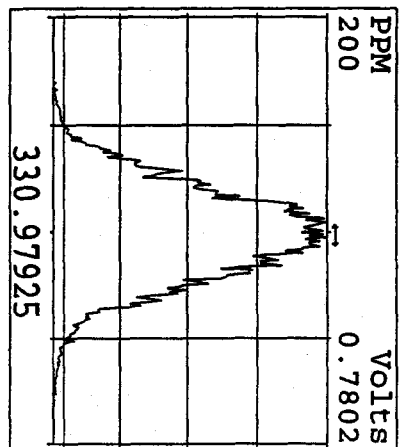
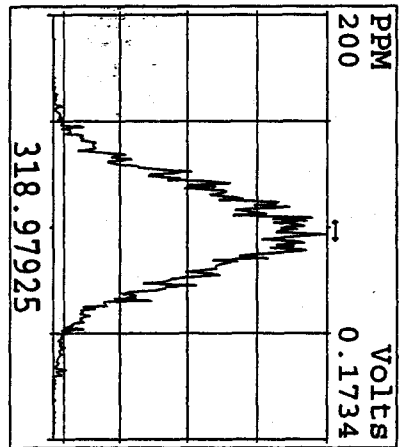
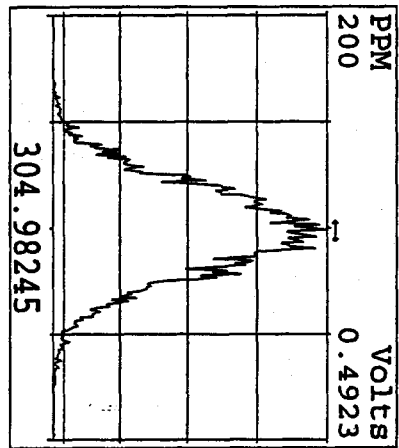
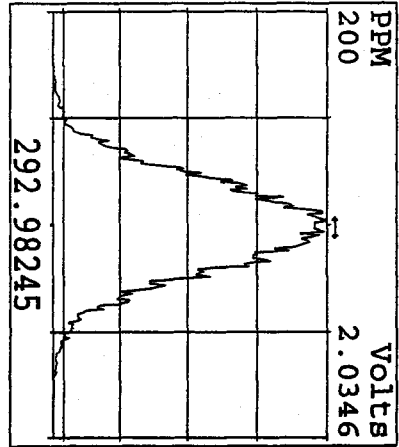
Peak Locate Examination: 23-DEC-2009: 08:44 File: 23DE094D5
Experiment: DIOXIN Function: 4 Reference: PFK



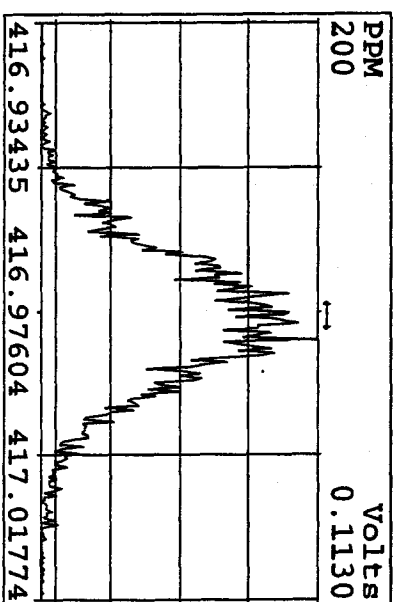
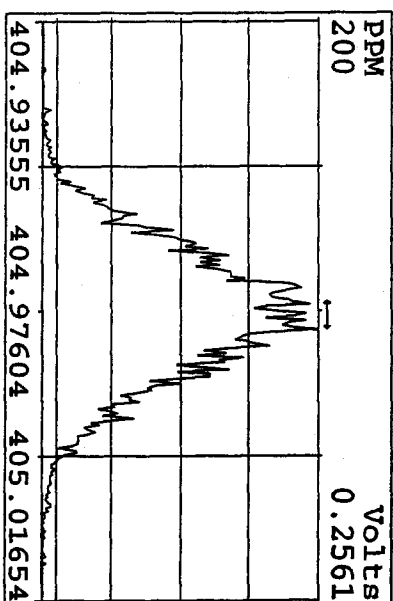
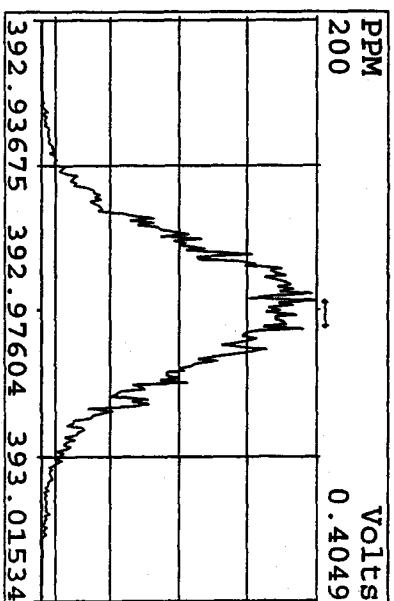
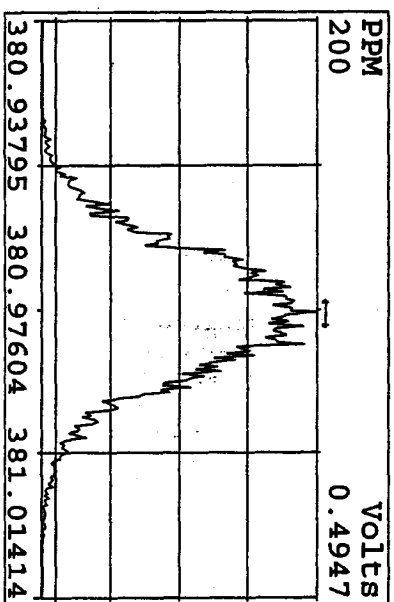
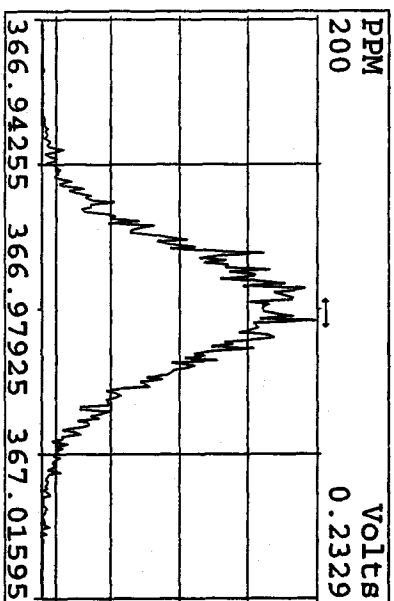
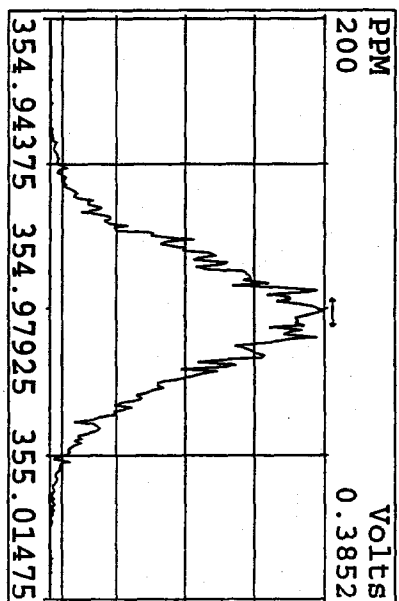
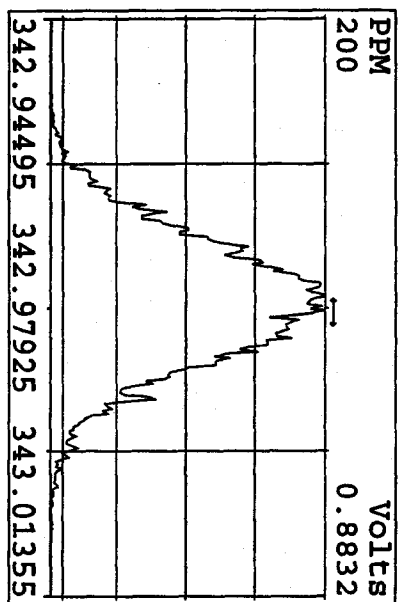
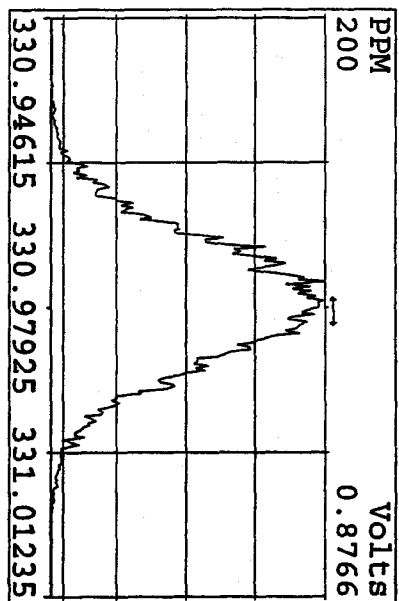
Peak Locate Examination: 23-DEC-2009:08:45 File: 23DBE094D5
 Experiment: DIOXIN Function: 5 Reference: PFK



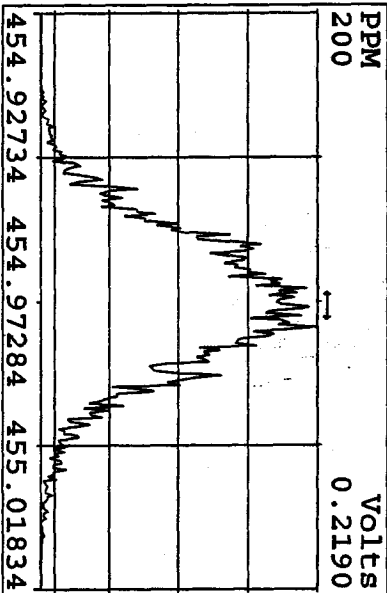
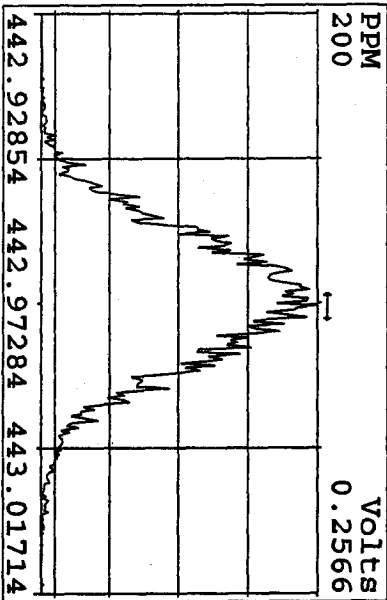
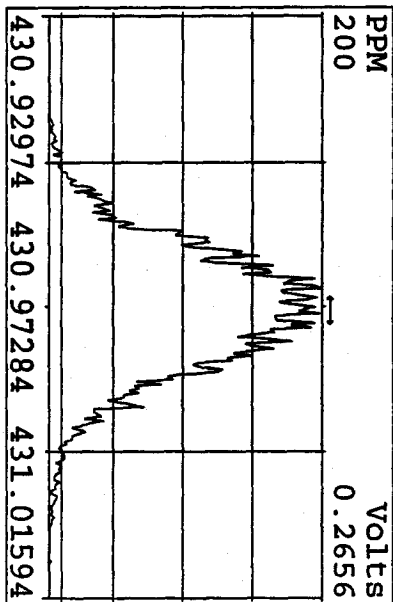
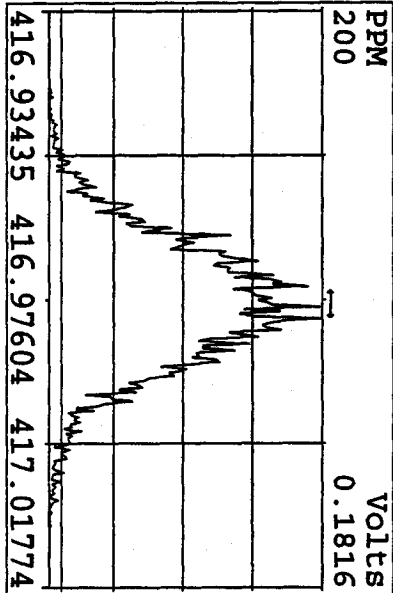
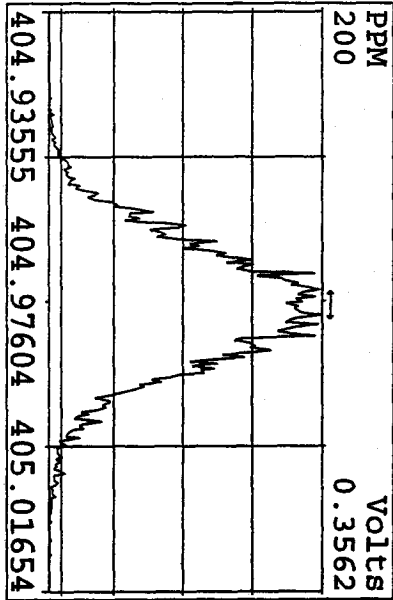
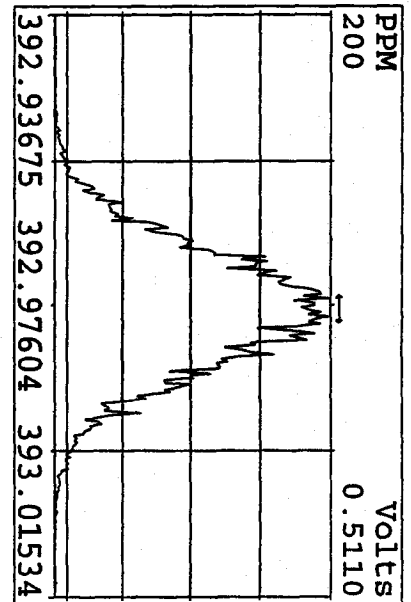
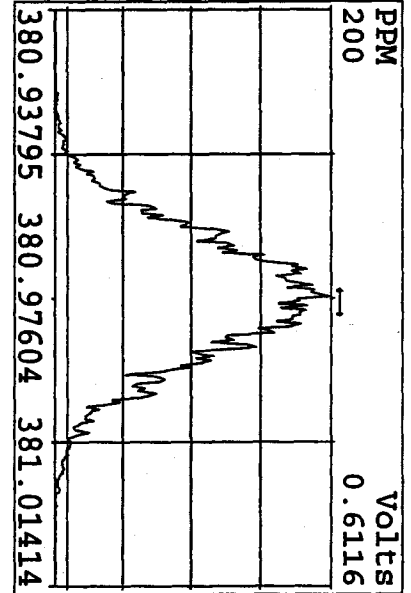
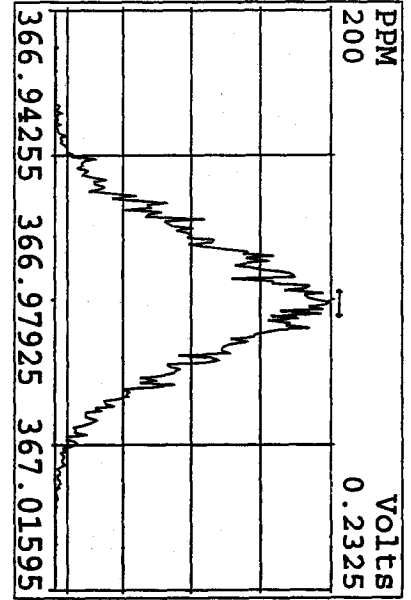
Peak Locate Examination: 23-DEC-2009: 20:04 File: RESCHK23DE094D5
Experiment: DIOXIN Function: 1 Reference: PK



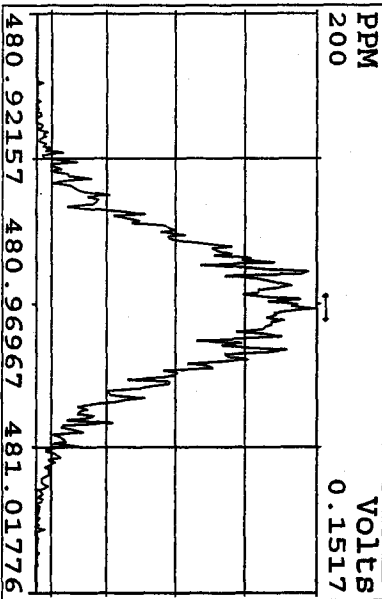
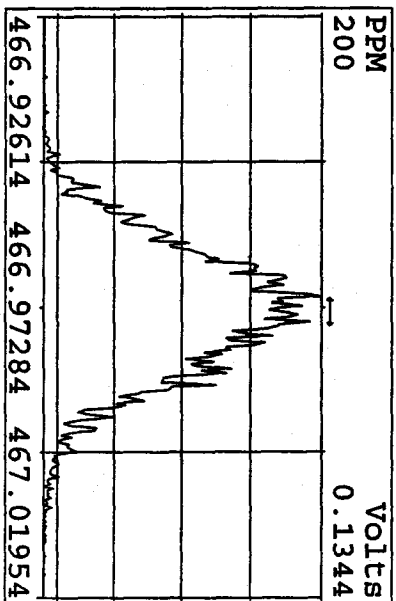
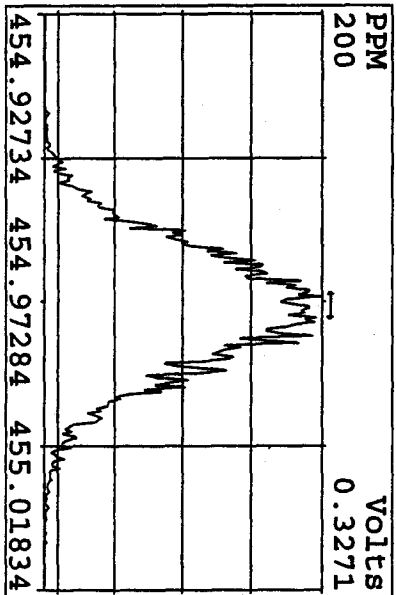
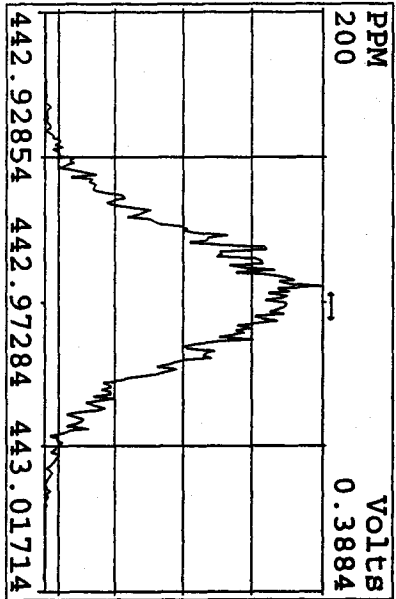
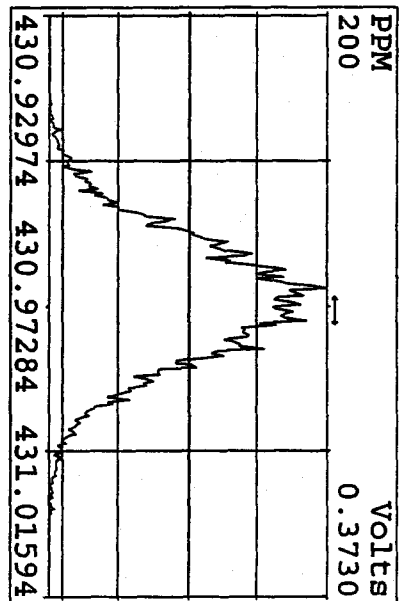
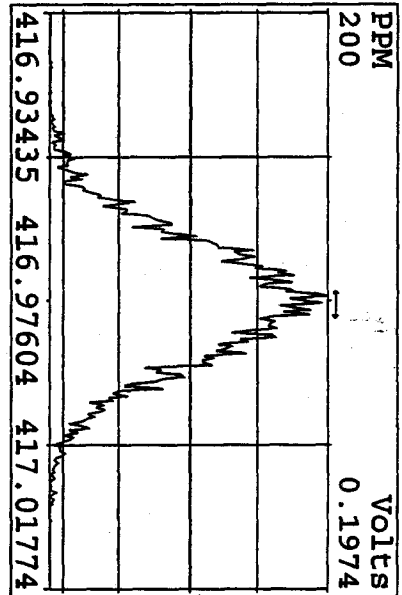
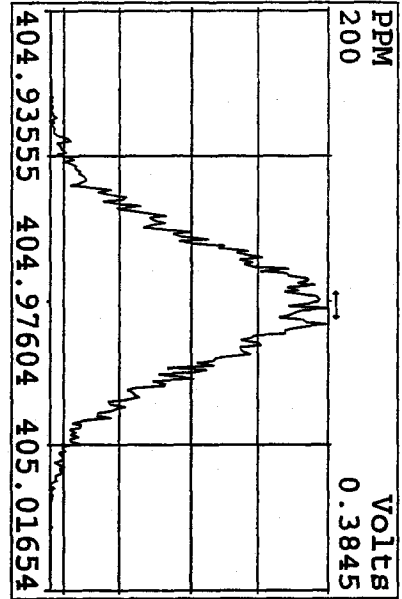
Peak Locate Examination: 23-DEC-2009: 20:04 File: RESCHK23DDE094D5
 Experiment: DIOXIN Function: 2 Reference: PFK



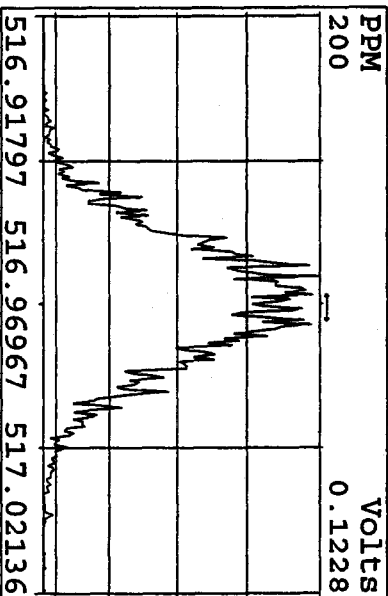
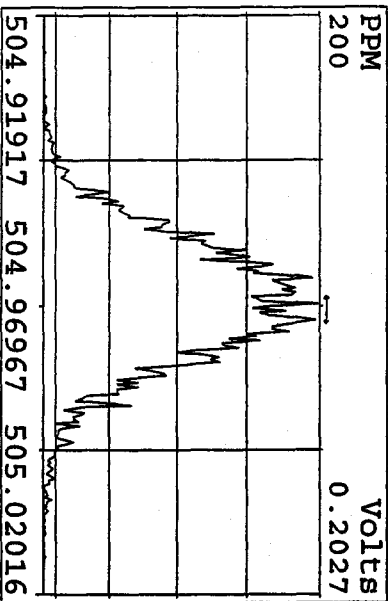
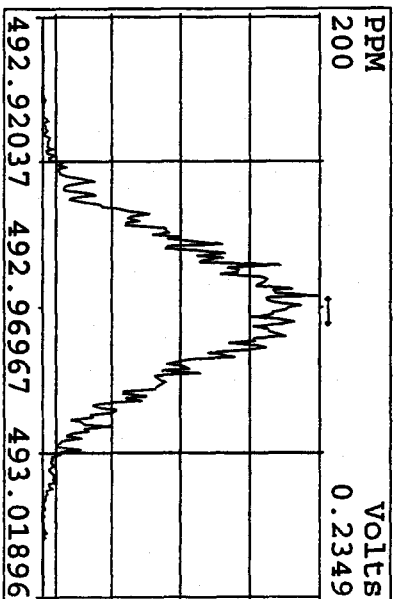
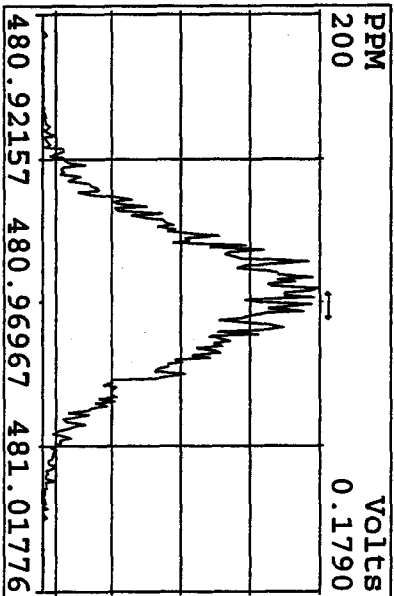
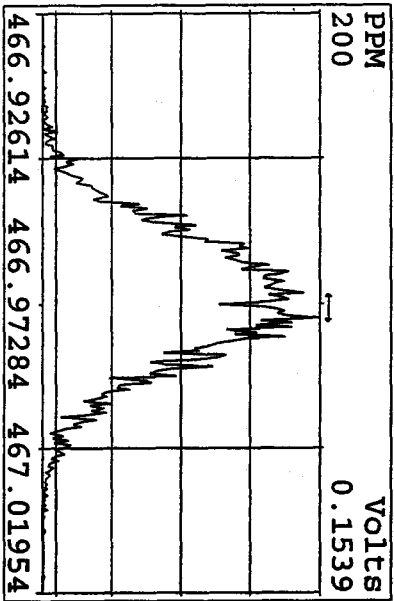
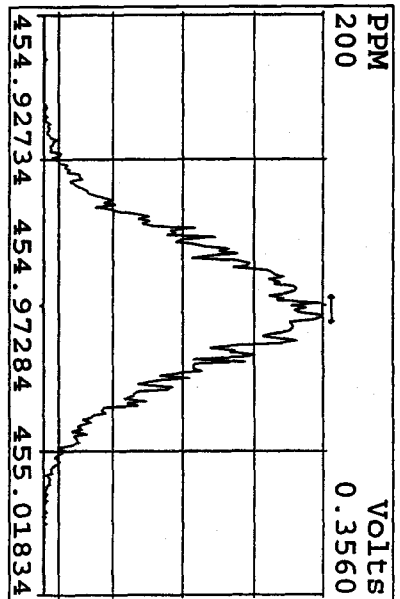
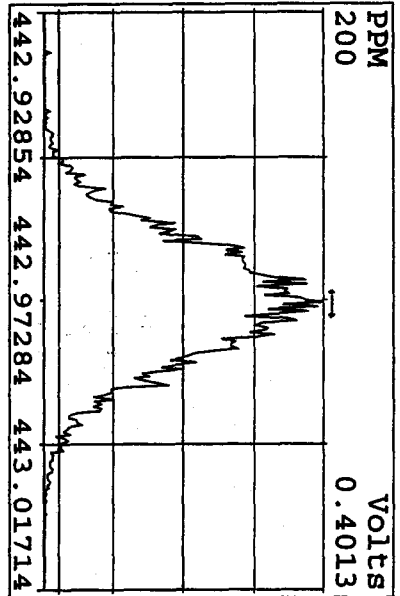
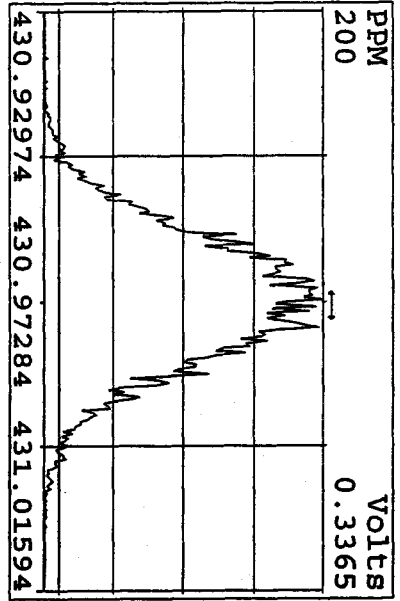
Peak Locate Examination: 23-DEC-2009: 20:05 File: RESCHK23DE094D5
 Experiment: DIOXIN Function: 3 Reference: PFK



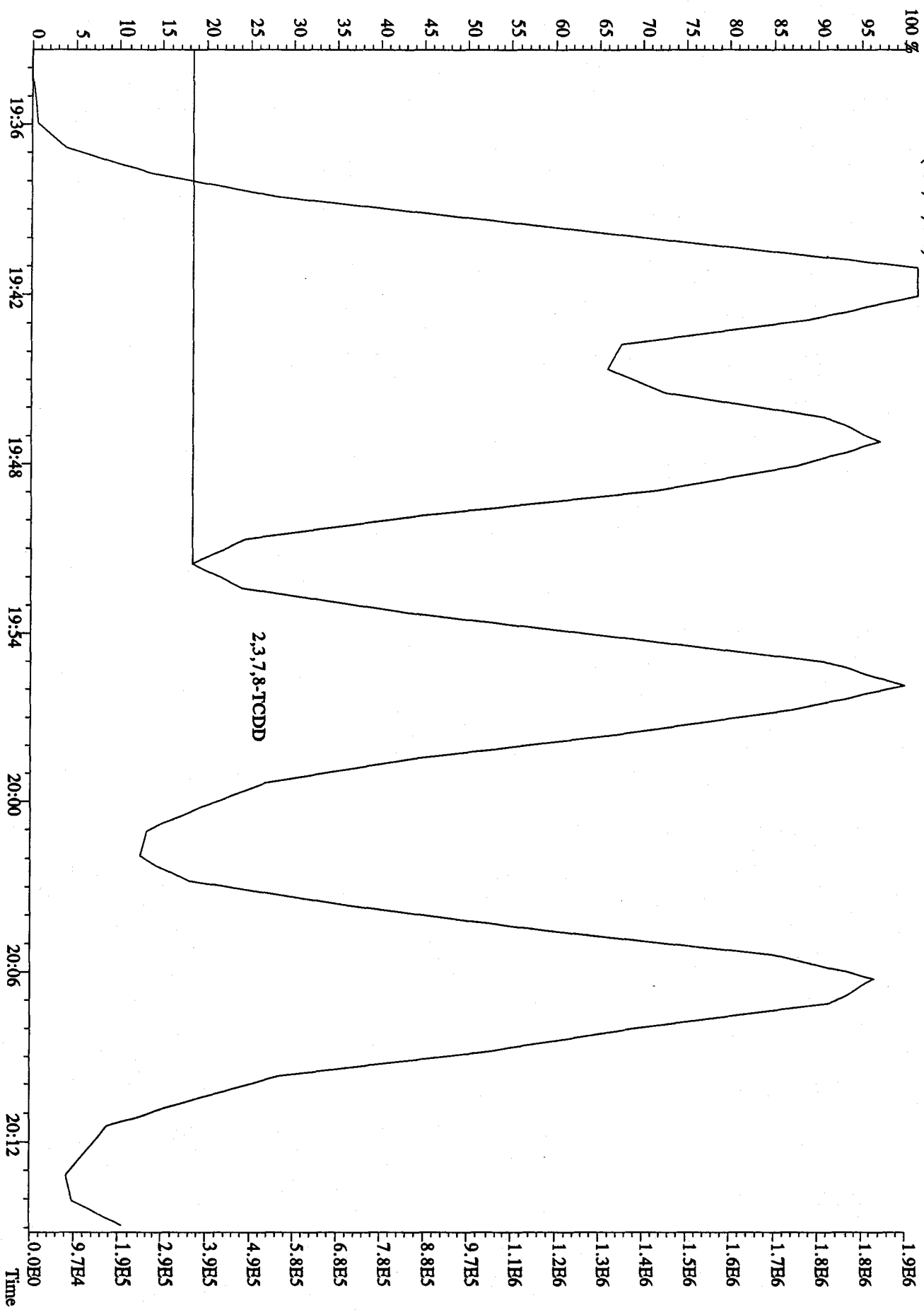
Peak Locate Examination: 23-DEC-2009: 20:06 File: RESCHK23DE094D5
Experiment: DIOXIN Function: 4 Reference: PFK



Peak Locate Examination: 23-DEC-2009: 20:07 File: RRSCHK23DEF094D5
 Experiment: DIOXIN Function: 5 Reference: PFK



File: 23DE094D5 #1-481 Acq: 23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-UltimaE
Sample#2 Exp: DIOXIN
319.8965 S:2 BSUB(128,15,-3,0)



Run: ICAL Analyte: 8290 Cal: 82900916094D5

ST0916 :CS-1 09DXN236 ST0916A :CS-2 09DXN237 ST0916B :CS-3 09DXN238
 ST0916C :CS-4 09DXN239 ST0916D :CS-5 09DXN240

16SE094D5 16SE094D5 16SE094D5 16SE094D5 16SE094D5

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

13C-2,3,7,8-TCDF	1.459	0.063	4.33 %	1.42	1.50	1.38	1.47	1.54
2,3,7,8-TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28
Total TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28

13C-2,3,7,8-TCDD	0.923	0.042	4.50 %	0.89	0.93	0.88	0.93	0.98
2,3,7,8-TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27
Total TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27

3TC1-2,3,7,8-TCDD	2.515	0.152	6.03 %	2.35	2.48	2.47	2.51	2.77
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13C-1,2,3,7,8-PeCDF	1.267	0.085	6.70 %	1.19	1.28	1.18	1.29	1.39
1,2,3,7,8-PeCDF	1.302	0.025	1.90 %	1.26	1.30	1.31	1.32	1.32
2,3,4,7,8-PeCDF	1.250	0.034	2.69 %	1.20	1.23	1.26	1.28	1.28
Total F2 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30
Total F1 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30

13C-1,2,3,7,8-PeCDD	0.772	0.056	7.24 %	0.72	0.78	0.72	0.79	0.85
1,2,3,7,8-PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26
Total PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26

13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	1.187	0.035	2.92 %	1.16	1.23	1.21	1.14	1.20
1,2,3,4,7,8-HxCDF	1.307	0.031	2.37 %	1.27	1.32	1.27	1.33	1.33
1,2,3,6,7,8-HxCDF	1.412	0.039	2.75 %	1.46	1.39	1.37	1.44	1.40
2,3,4,6,7,8-HxCDF	1.334	0.033	2.51 %	1.36	1.33	1.28	1.36	1.33
1,2,3,7,8,9-HxCDF	1.195	0.052	4.39 %	1.17	1.18	1.13	1.27	1.23
Total HxCDF	1.312	0.032	2.40 %	1.32	1.31	1.26	1.35	1.32

13C-1,2,3,6,7,8-HxCDD	0.747	0.046	6.16 %	0.77	0.78	0.69	0.71	0.79
1,2,3,4,7,8-HxCDD	1.242	0.047	3.75 %	1.19	1.21	1.31	1.26	1.23

1,2,3,6,7,8-HxCDD	1.479	0.113	7.64 %	1.34	1.48	1.59	1.60	1.39
1,2,3,7,8,9-HxCDD	1.473	0.089	6.01 %	1.41	1.41	1.54	1.60	1.40
Total HxCDD	1.398	0.078	5.60 %	1.32	1.37	1.48	1.48	1.34
13C-1,2,3,4,6,7,8-HpCDF	0.913	0.028	3.08 %	0.91	0.93	0.88	0.90	0.95
1,2,3,4,6,7,8-HpCDF	1.595	0.021	1.32 %	1.56	1.59	1.61	1.62	1.59
1,2,3,4,7,8,9-HpCDF	1.331	0.063	4.73 %	1.25	1.29	1.36	1.36	1.40
Total HpCDF	1.463	0.040	2.72 %	1.41	1.44	1.49	1.49	1.50
13C-1,2,3,4,6,7,8-HpCDD	0.714	0.028	3.95 %	0.70	0.73	0.69	0.69	0.76
1,2,3,4,6,7,8-HpCDD	1.307	0.033	2.51 %	1.27	1.27	1.32	1.34	1.33
Total HpCDD	1.307	0.033	2.51 %	1.27	1.27	1.32	1.34	1.33
13C-OCDD	0.606	0.053	8.81 %	0.56	0.59	0.58	0.61	0.70
OCDF	1.509	0.127	8.40 %	1.35	1.42	1.51	1.62	1.65
OCDD	1.194	0.018	1.52 %	1.16	1.20	1.20	1.21	1.20

Daily Calibration Checklist Dioxin Methods

Method ID 8290

Associated ICAL DB225102109502

Column ID DB225

Instrument ID 502

STD ID ST1223, ST1223A

STD Solution CS3 09DXN384

Analyzed by KSS, AVP

Date Analyzed 12/23/09

Std. Pkg. By KSS

Date Std. Pkg. Assembled 12/28/09 (reprint)

Std. Pkg. Reviewed By MG

Date Std. Pkg. Reviewed 12/28/09

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?*	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS: _____

* Method 8290/T09/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.

Method 8290/T09/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/T09 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1223 File text: ST1223 :CS3 09DXN384
Run #6 Filename 23DE095D2 S: 1 I: 1
Acquired: 23-DEC-09 08:53:35 Processed: 23-DEC-09 14:25:12
Run: 23DE095D2 Analyte: DB225 Cal: DB2251021095D2 Results: 23DE095D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	144790000	0.80 y	14:23	-	100.00	-	n
13C-2,3,7,8-TCDF	262219000	0.78 y	15:29	1.81	100.00	-8.3	n
2,3,7,8-TCDF	31171900	0.78 y	15:30	1.19	10.00	0.8	n
13C-2,3,7,8-TCDD	141223200	0.79 y	14:09	0.98	100.00	0.5	n
2,3,7,8-TCDD	21547940	0.80 y	14:10	1.53	10.00	1.3	n
37C1-2,3,7,8-TCDD	40557600	1.00 y	14:10	2.80	10.00	3.6	n

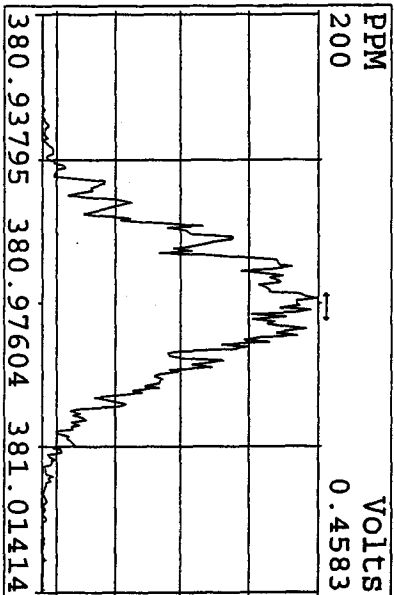
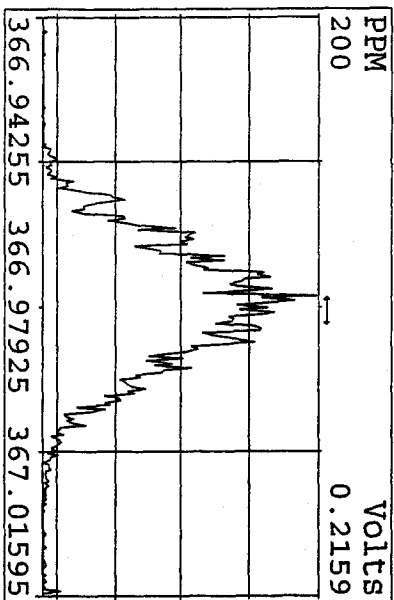
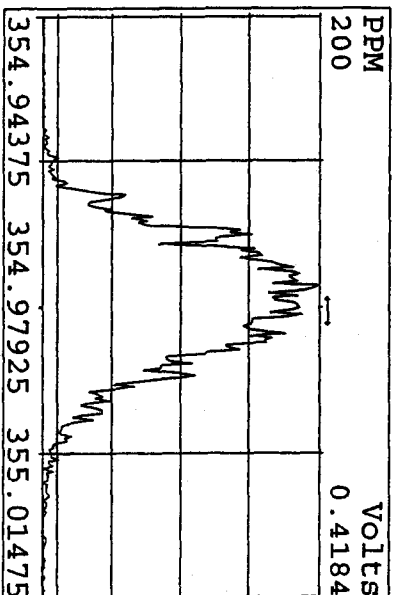
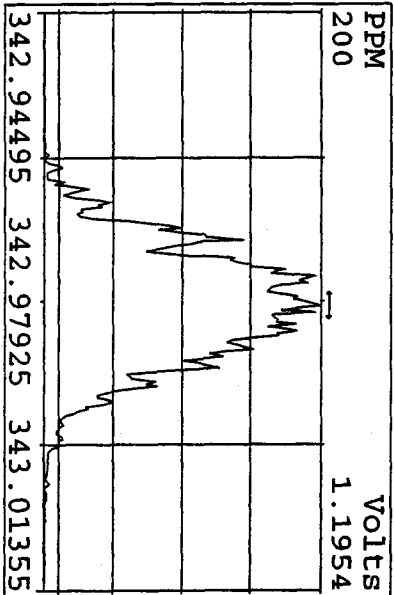
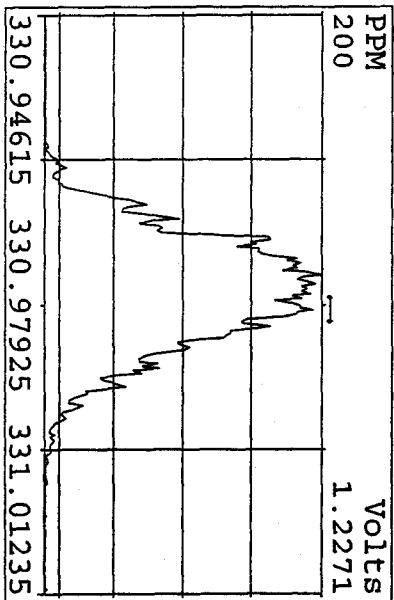
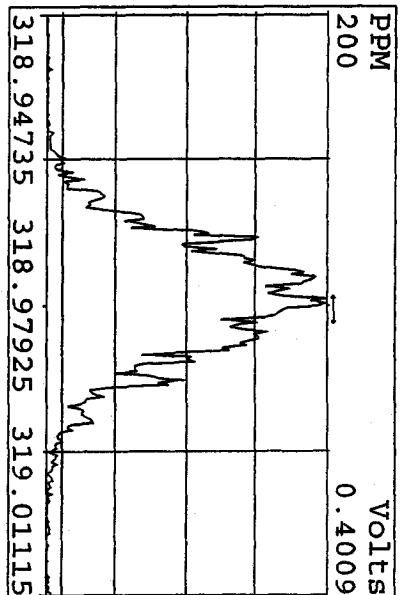
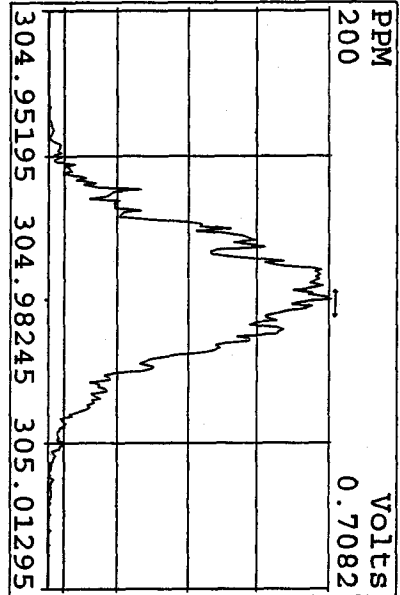
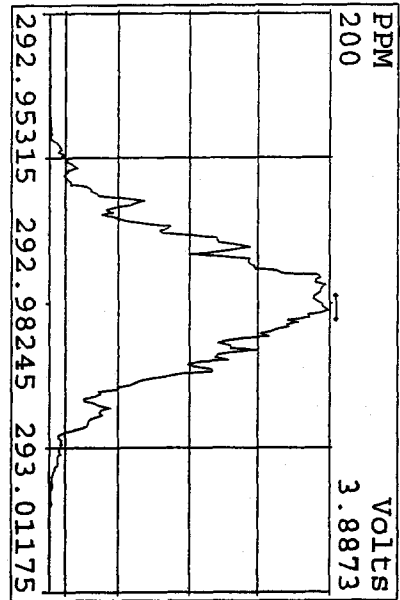
Run text: ST1222B File text: ST1222B :CS3 09DXN384
Run #19 Filename 23DE095D2 S: 16 I: 1
Acquired: 23-DEC-09 18:09:19 Processed: 23-DEC-09 18:45:50
Run: 23DE095D2 Analyte: DB225 Cal: DB2251021095D2 Results: 23DE095D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	150932800	0.78 y	14:22	-	100.00	-	n
13C-2,3,7,8-TCDF	270904000	0.81 y	15:28	1.79	100.00	-9.1	n
2,3,7,8-TCDF	32313500	0.79 y	15:29	1.19	10.00	1.1	n
13C-2,3,7,8-TCDD	128452800	0.76 y	14:08	0.85	100.00	-12.3	n
2,3,7,8-TCDD	21013940	0.80 y	14:10	1.64	10.00	8.6	n
37Cl-2,3,7,8-TCDD	39325600	1.00 y	14:09	2.61	10.00	-3.7	n

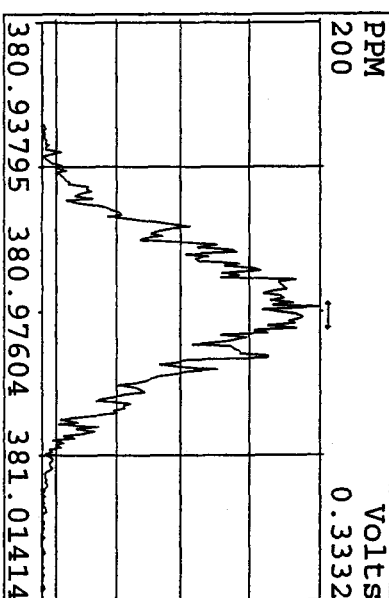
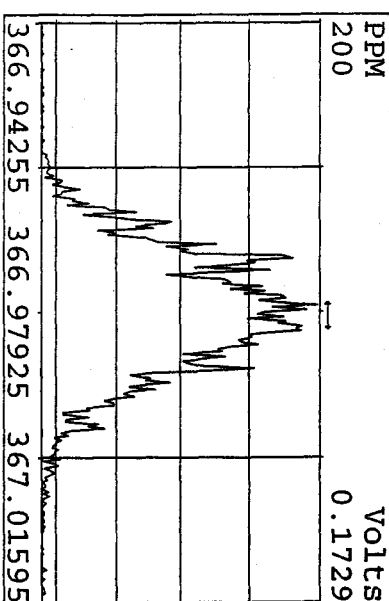
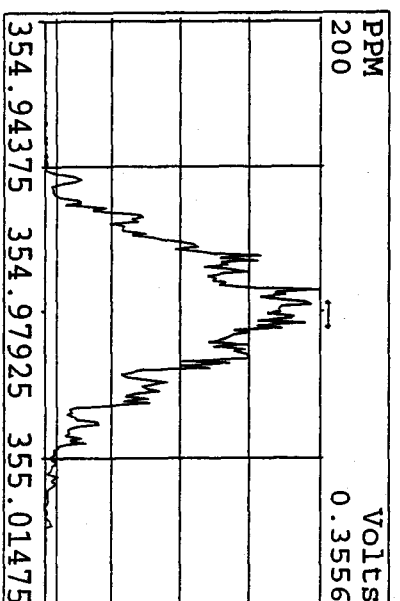
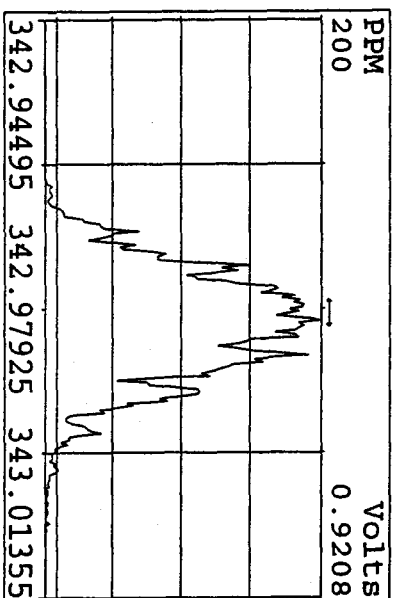
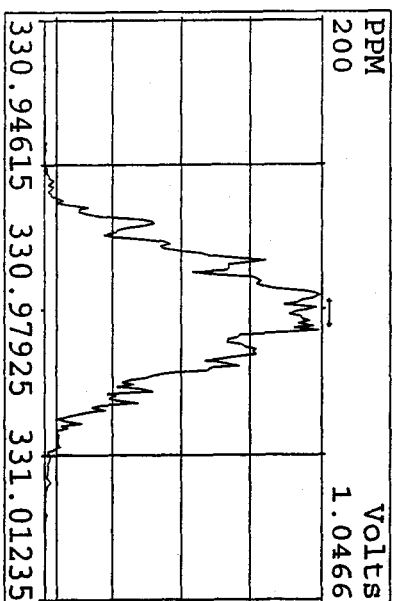
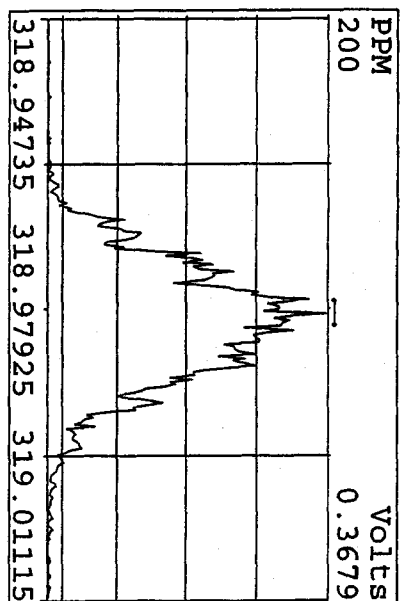
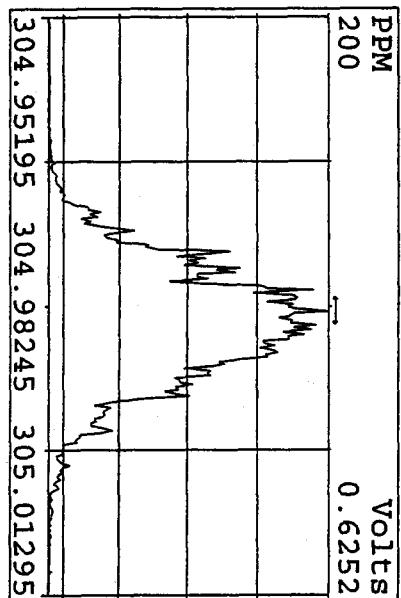
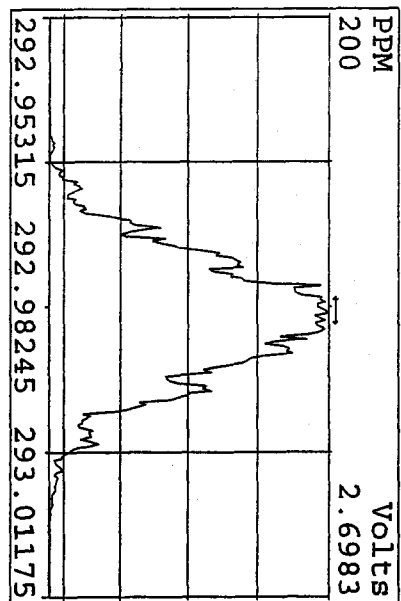
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
23DE095D2	1	ST1223	CS3 09DXN384				1.000	
23DE095D2	2	CP1223	DB-225 CPSM 3732-01				1.000	
23DE095D2	3	SB1223	Solvent Blank C-14				1.000	
23DE095D2	4	LRF9L-1-AA	G9L210000-435B (588MB)	10	8290/SOLID	70	10.000 g	
23DE095D2	5	LQ2K8-2-AC	G9L120491-3RX	10	8290/SOLID		10.410 g	
23DE095D2	6	LQ023-2-AC	G9L110588-22RX	10	8290/SOLID		10.310 g	
23DE095D2	7	LQ027-2-AC	G9L110588-25RX	10	8290/SOLID	65	10.150 g	
23DE095D2	8	LQ2K7-2-AC	G9L120491-2RX /	10	8290/SOLID	70	10.040 g	
23DE095D2	9	LQ2K5-2-AC	G9L120491-1RX /	10	8290/SOLID		10.020 g	
23DE095D2	10	LQ2LA-2-AC	G9L120491-5RX /	10	8290/SOLID		10.190 g	
23DE095D2	11	LQ024-2-AC	G9L110588-23RX /	10	8290/SOLID	65	10.160 g	
23DE095D2	12	LQ2K9-2-AC	G9L120491-4RX /	10	8290/SOLID	70	10.400 g	
23DE095D2	13	LQ01L-1-AC	G9L110588-8	10	8290/SOLID	65	10.030 g	
23DE095D2	14	LQ01N-1-AC	G9L110588-9	10	8290/SOLID		10.020 g	
23DE095D2	15	SB1223	Solvent Blank C-14				1.000	
23DE095D2	16	ST1222B	CS3 09DXN384				1.000	
23DE095D2	17						1.000	
23DE095D2	18						1.000	
23DE095D2	19						1.000	
23DE095D2	20						1.000	
23DE095D2	21						1.000	
23DE095D2	22						1.000	
23DE095D2	23						1.000	
23DE095D2	24		KSS, AVP 12-23-09		LOGFILE ✓ld		1.000	
23DE095D2	25				12-23-09 KSS		1.000	

23
12-23-09

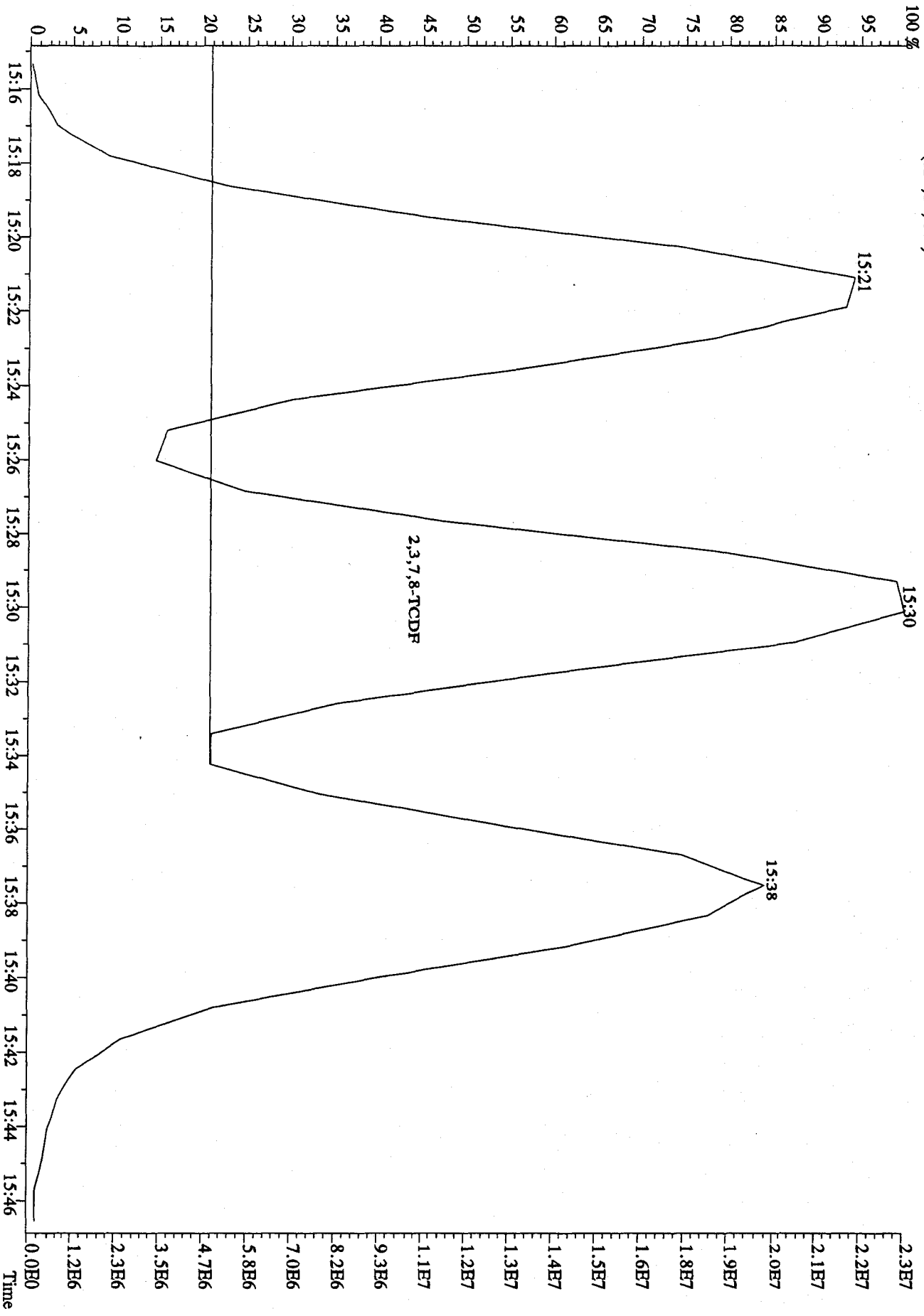
Peak Locate Examination: 23-DEC-2009: 08:53 File: 23DE095D2
 Experiment: DB225 Function: 1 Reference: PFK



Peak Locate Examination: 23-DEC-2009:18:57 File: RESCHK23DE095D2
 Experiment: DB225 Function: 1 Reference: PFK



File: 23DE095D2 #1-1242 Acq: 23-DEC-2009 09:30:37 GC EI+ Voltage SIR 70SE
 Sample#2 Text: CP1223 :DB-225 CPSM 3732-01 Exp: DB225
 303.9016 S: 2 BSUB(128,15,-3,0)



Run: 23DE095D2 Analyte: DE225 Cal: DE2251021095D2

ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

21OC095D2 21OC095D2 21OC095D2 21OC095D2 21OC095D2 21OC095D2

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46
37Cl-2,3,7,8-TCDD	2.705	0.282	10.4 %	2.28	2.70	2.80	3.06	2.68

Daily Calibration Checklist Dioxin Methods

Method ID 8290

Associated ICAL DB225102109502

Column ID DB225

Instrument ID 502

STD ID ST1223C, ST1223D

STD Solution CS3 09DXN384

Analyzed by AM

Date Analyzed 12/23/09, 12/24/09

Std. Pkg. By KGS

Date Std. Pkg. Assembled 12/24/09

Std. Pkg. Reviewed By McG

Date Std. Pkg. Reviewed 12/24/09

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?***	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS: _____

* Method 8290/TO9/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.

Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.

Method 23: See Method 23 Daily Standard Criteria, Table 5.

Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria.

** Method 23/0023A CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet

Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1223C

File text: CS3 09DXN384

Run #6 Filename 23DE09A5D2 S: 1

I: 1

Acquired: 23-DEC-09 23:01:07

Processed: 23-DEC-09 23:31:57

Run: 23DE09A5D2 Analyte: DB225

Cal: DB2251021095D2

Results: 23DE09A5D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	137457300	0.80 y	14:23	-	100.00	-	n
13C-2,3,7,8-TCDF	217759400	0.82 y	15:29	1.58	100.00	-19.8	n
2,3,7,8-TCDF	24710500	0.84 y	15:30	1.13	10.00	-3.8	n
13C-2,3,7,8-TCDD	124898700	0.80 y	14:09	0.91	100.00	-6.4	n
2,3,7,8-TCDD	17455170	0.78 y	14:10	1.40	10.00	-7.2	n
37C1-2,3,7,8-TCDD	34209200	1.00 y	14:10	2.49	10.00	-8.0	n

Run text: ST1223D File text: ST1223D :CS3 09DXN384
Run #12 Filename 23DE09A5D2 S: 10 I: 1
Acquired: 24-DEC-09 04:34:30 Processed: 24-DEC-09 05:52:28
Run: 23DE09A5D2 Analyte: DB225 Cal: DB2251021095D2 Results: 23DE09A5D2DB225

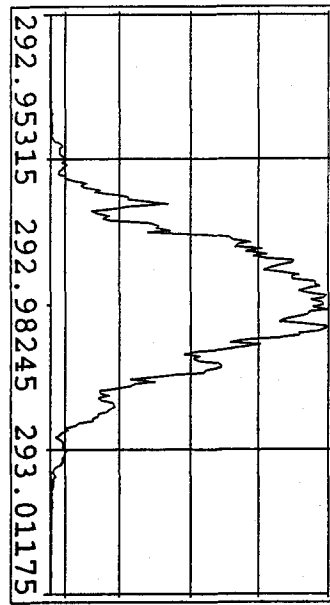
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	112422300	0.82 y	14:24	-	100.00	-	n
13C-2,3,7,8-TCDF	179603100	0.80 y	15:31	1.60	100.00	-19.1	n
2,3,7,8-TCDF	20783560	0.85 y	15:32	1.16	10.00	-1.9	n
13C-2,3,7,8-TCDD	102262600	0.81 y	14:11	0.91	100.00	-6.3	n
2,3,7,8-TCDD	14187290	0.78 y	14:12	1.39	10.00	-7.9	n
37Cl-2,3,7,8-TCDD	29090800	1.00 y	14:12	2.59	10.00	-4.3	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
23DE09A5D2	1	ST1223C	CS3 09DXN384				1.000	
23DE09A5D2	2	CP1223A	DB-225 CPSM 3732-01				1.000	
23DE09A5D2	3	SB1223B	Solvent Blank C-14				1.000	
23DE09A5D2	4	LQ2LD-2-AC	G9L120491-7RX /	20	8290/SOLID	70	10.000	g
23DE09A5D2	5	LQ2LE-2-AC	G9L120491-8RX /	20	8290/SOLID		10.130	g
23DE09A5D2	6	LQ2LE-2-AD	G9L120491-8RX /	20	8290/SOLID		10.260	g
23DE09A5D2	7	LQ2LE-2-AE	G9L120491-8RX /	20	8290/SOLID		10.120	g
23DE09A5D2	8	LQ2LC-2-AC	G9L120491-6RX /	20	8290/SOLID		10.180	g
23DE09A5D2	9	SB1223C	Solvent Blank C-14				1.000	
23DE09A5D2	10	ST1223D	CS3 09DXN384				1.000	
23DE09A5D2	11						1.000	
23DE09A5D2	12						1.000	
23DE09A5D2	13						1.000	
23DE09A5D2	14						1.000	
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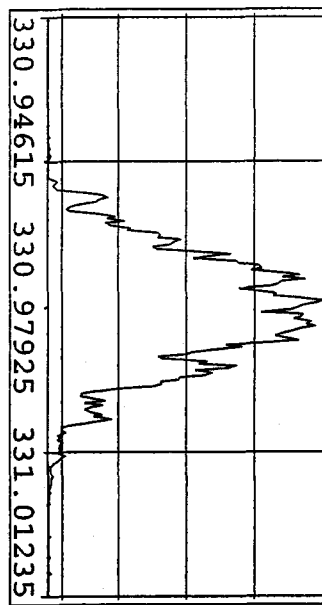
KRS

Peak Locate Examination: 23-DEC-2009: 22:58 File: 23DDE09A5D2
 Experiment: DB225 Function: 1 Reference: PFK

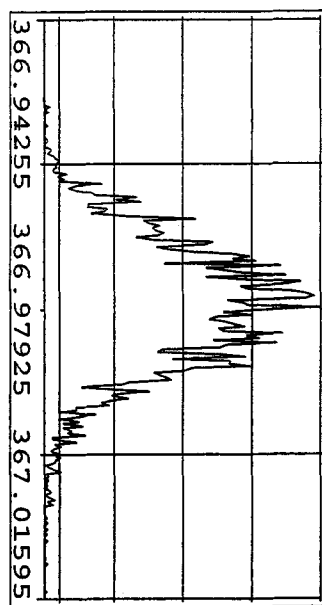
PPM 200 VOLTS 1.8950



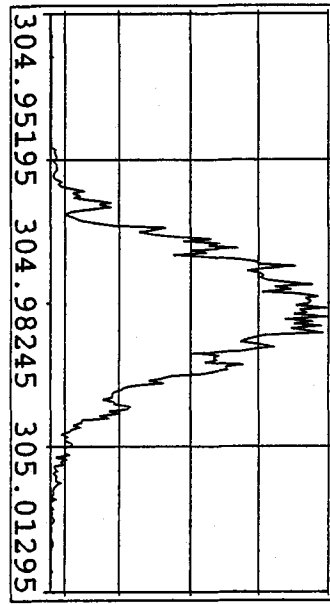
PPM 200 VOLTS 0.8161



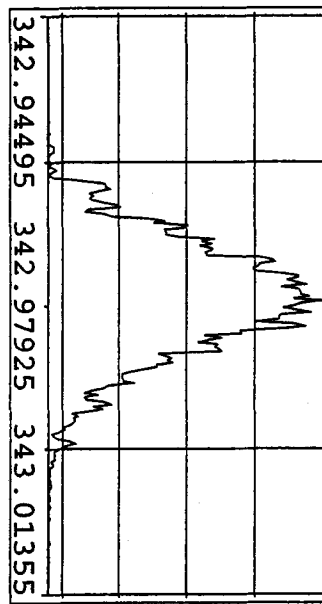
PPM 200 VOLTS 0.1149



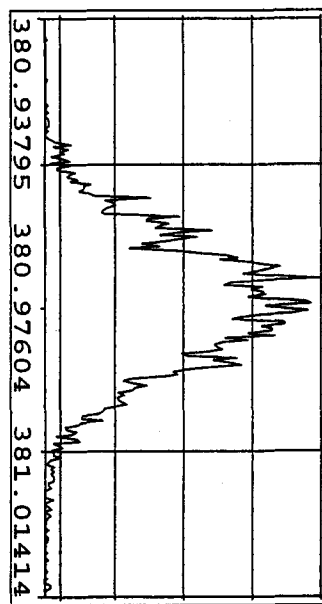
PPM 200 VOLTS 0.4729



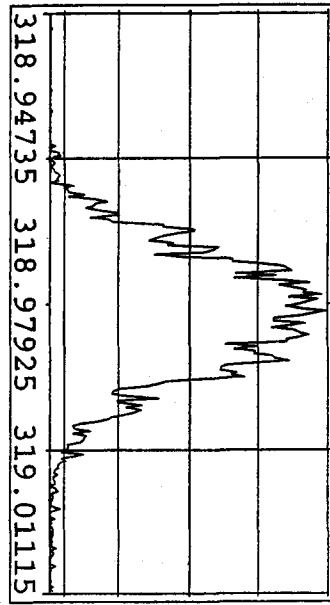
PPM 200 VOLTS 0.6870



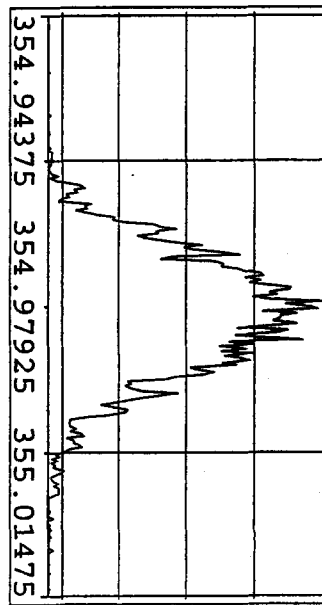
PPM 200 VOLTS 0.1735



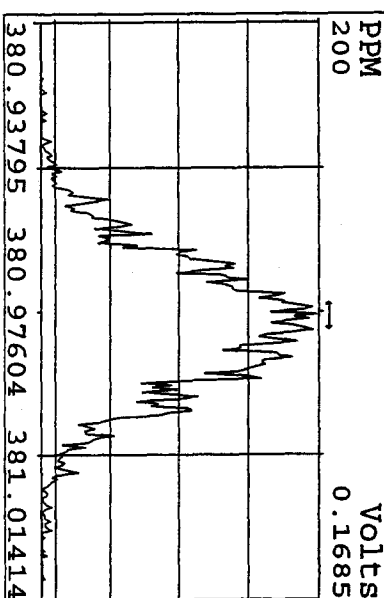
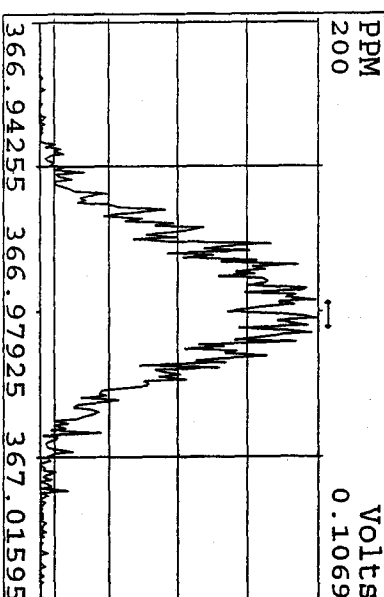
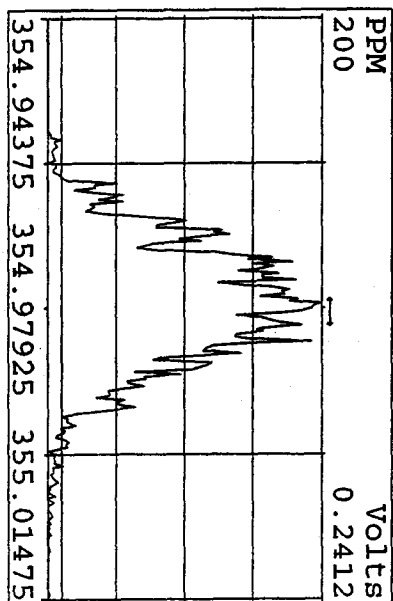
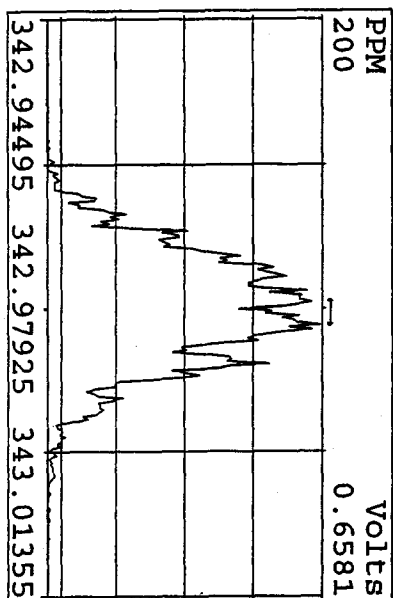
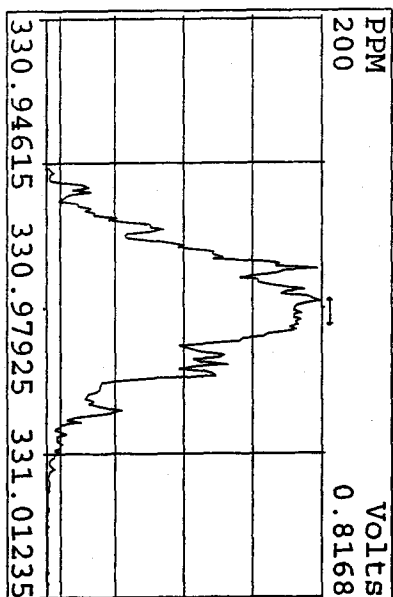
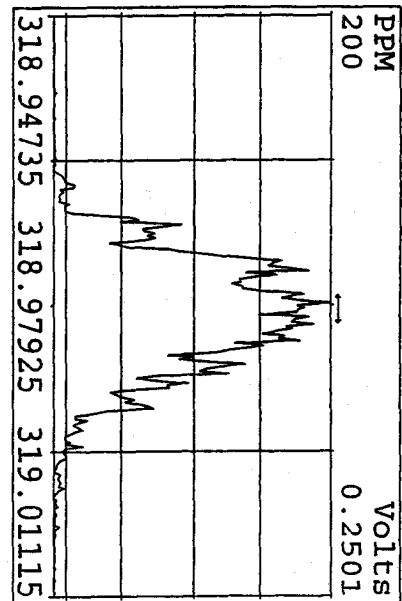
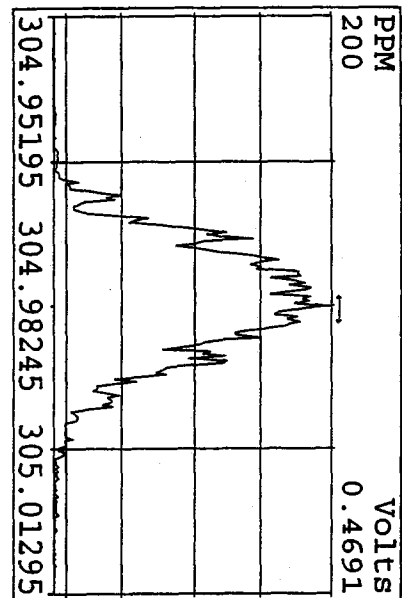
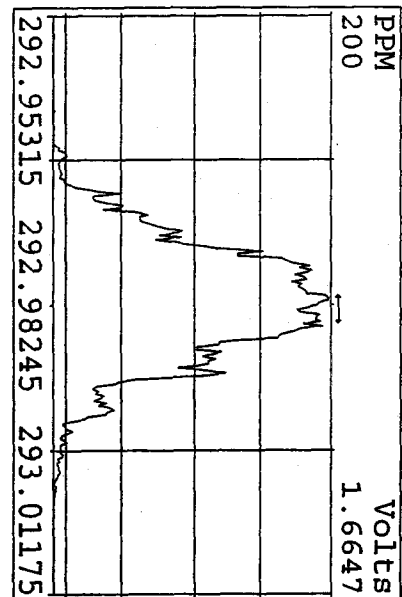
PPM 200 VOLTS 0.2335



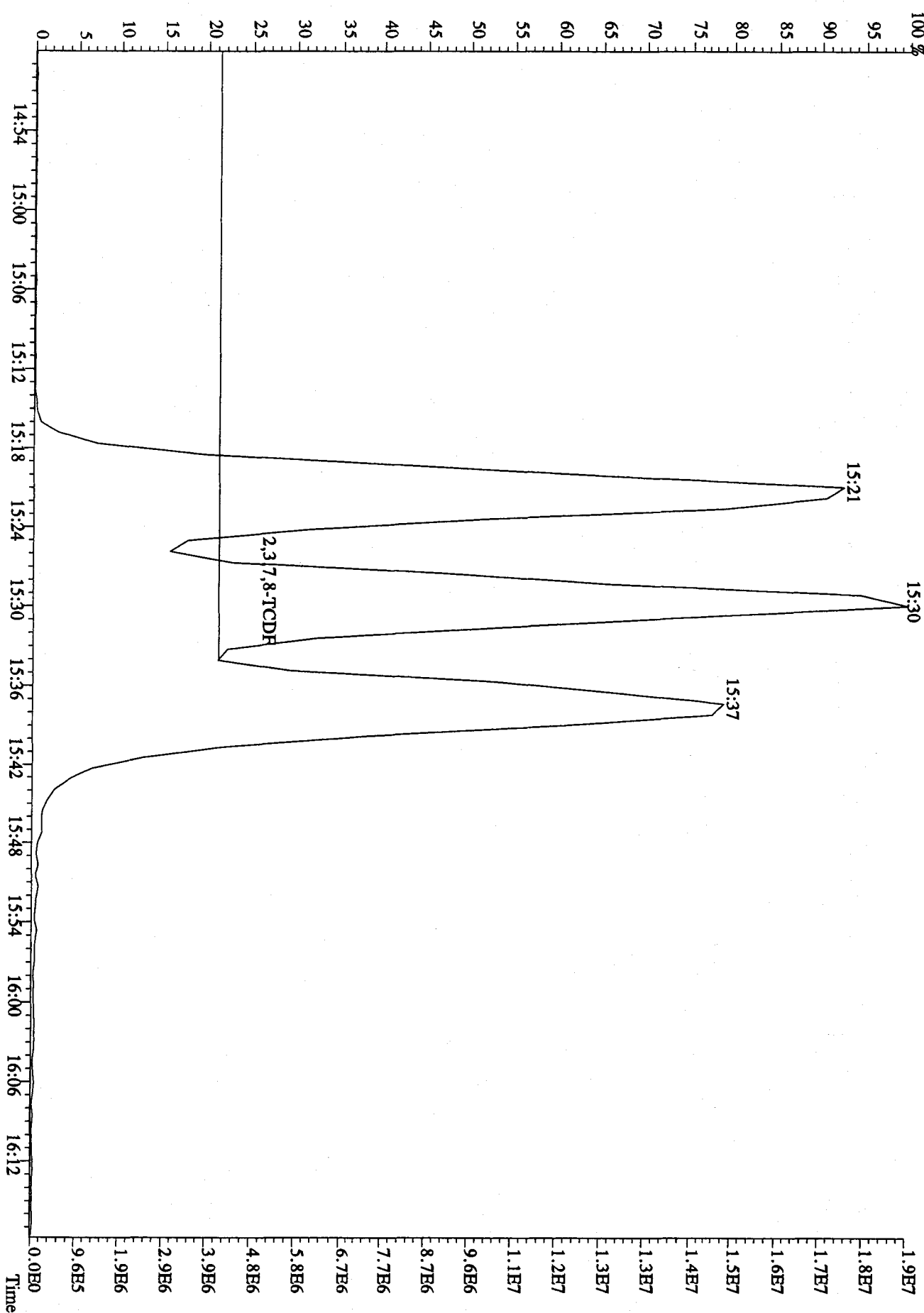
PPM 200 VOLTS 0.2528



Peak Locate Examination: 24-DEC-2009: 05:57 File: 23DE09A5D2ENDRES
 Experiment: DB225 Function: 1 Reference: PFK



File: 23DB09A5D2 #1-1241 Acq: 23-DEC-2009 23:38:09 GC EI+ Voltage SIR 70SE
Sample#2 Text: CP1223A :DB-225 CPSM 3732-01 Exp: DB225
303.9016 S:2 BSUB(128,15,-3.0)



Run: 23DE09A5D2 Analyte: DB225

Cal: DB2251021095D2

ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	S3	S4	S5	S6	S7
				RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46
37Cl-2,3,7,8-TCDD	2.705	0.282	10.4 %	2.28	2.70	2.80	3.06	2.68

Daily Calibration Checklist Dioxin Methods

Method ID 8290
 Column ID DB225
 STD ID STD105A, STD105B
 Analyzed by M.G.
 Std. Pkg. By M.G.
 Std. Pkg. Reviewed By MGW

Associated ICAL DB225010410502
 Instrument ID 502
 STD Solution 09PXN425
 Date Analyzed 1/5/10
 Date Std. Pkg. Assembled 1/6/10
 Date Std. Pkg. Reviewed 1/6/10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?*	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS:

- * Method 8290/T09/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
 Method 8290/T09/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/T09 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST0105A File text: ST0105A :CS3 09DXN425
Run #6 Filename 05JA105D2 S: 5 I: 1
Acquired: 5-JAN-10 12:40:53 Processed: 5-JAN-10 19:05:25
Run: 05JA105D2 Analyte: DB225 Cal: DB2250104105D2 Results: 05JA105D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	209007200	0.78 y	14:16	-	100.00	-	n
13C-2,3,7,8-TCDF	356154000	0.78 y	15:22	1.70	100.00	2.4	n
2,3,7,8-TCDF	35547200	0.84 y	15:24	1.00	10.00	-1.5	n
13C-2,3,7,8-TCDD	204017800	0.78 y	14:02	0.98	100.00	2.6	n
2,3,7,8-TCDD	24843600	0.82 y	14:03	1.22	10.00	3.0	n
37C1-2,3,7,8-TCDD	47185600	1.00 y	14:03	2.26	10.00	9.2	n

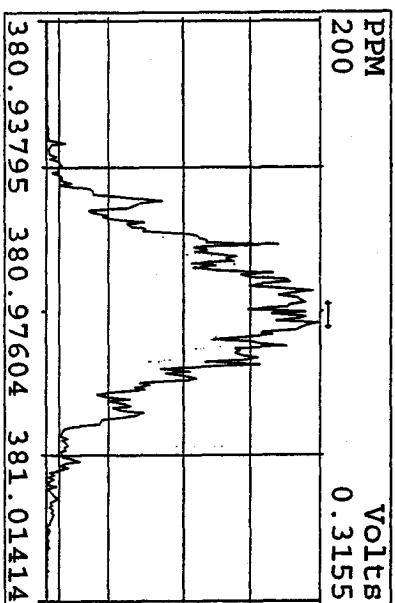
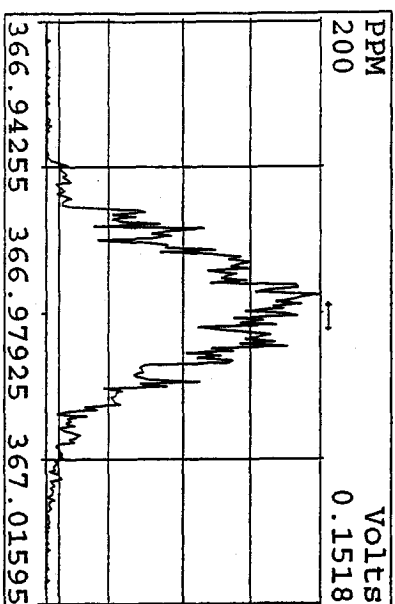
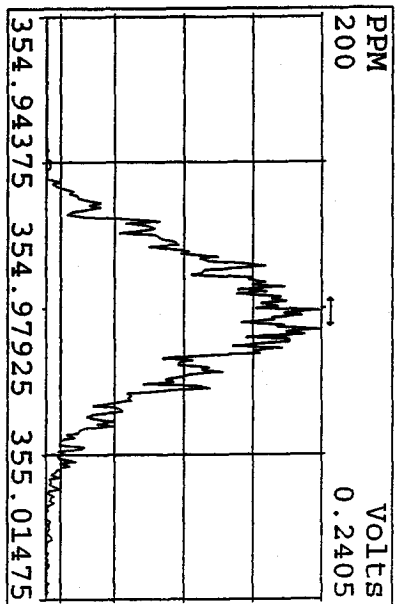
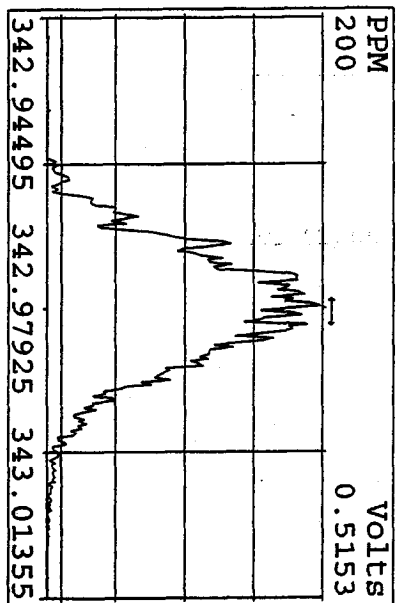
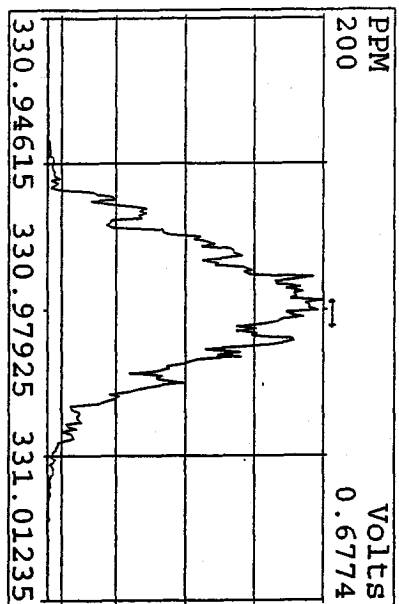
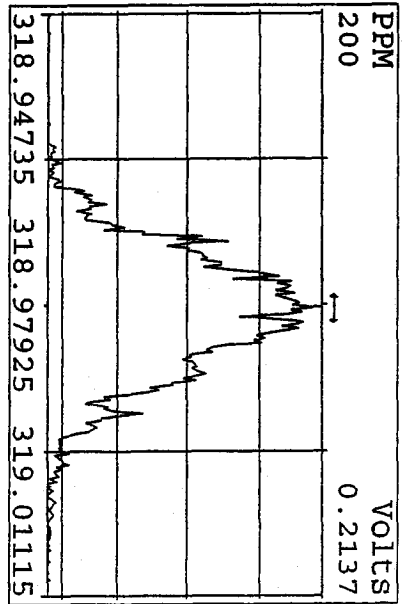
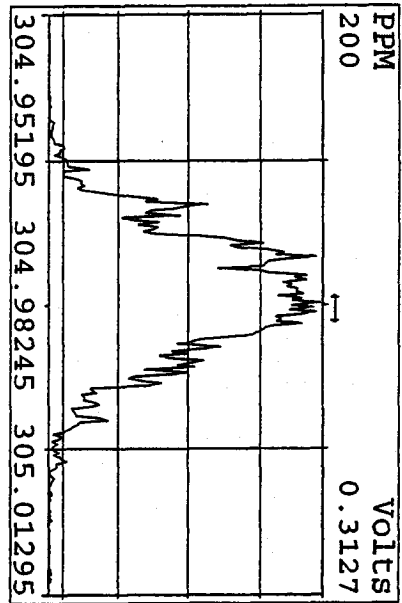
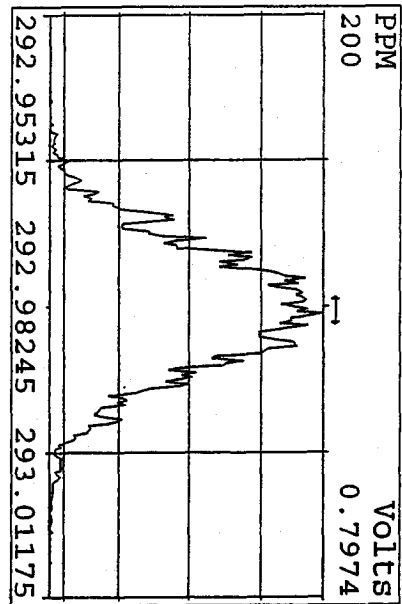
Run text: ST0105B File text: ST0105B :CS3 09DXN425
Run #17 Filename 05JA105D2 S: 17 I: 1
Acquired: 5-JAN-10 20:05:23 Processed: 5-JAN-10 20:53:41
Run: 05JA105D2 Analyte: DB225 Cal: DB2250104105D2 Results: 05JA105D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	175376400	0.76 y	14:15	-	100.00	-	n
13C-2,3,7,8-TCDF	333343000	0.78 y	15:22	1.90	100.00	14.3	n
2,3,7,8-TCDF	32069600	0.80 y	15:23	0.96	10.00	-5.1	n
13C-2,3,7,8-TCDD	188180000	0.77 y	14:02	1.07	100.00	12.8	n
2,3,7,8-TCDD	22852900	0.81 y	14:03	1.21	10.00	2.7	n
37Cl-2,3,7,8-TCDD	44433600	1.00 y	14:03	2.53	10.00	22.5	n

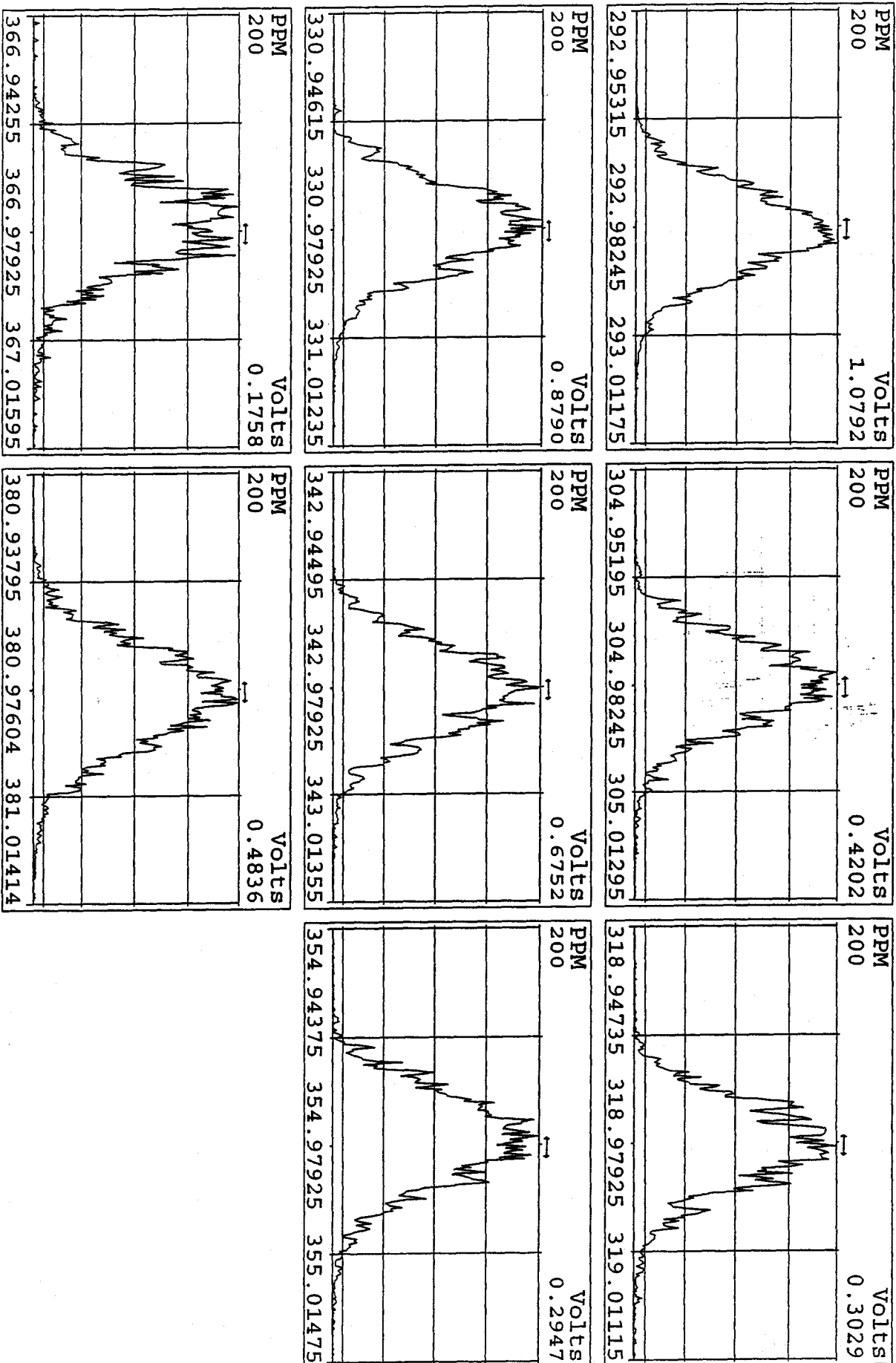
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
05JA105D2	1	ST0105	CS3 09DXN425				1.000	
05JA105D2	2	CP0105	DB-225 CPSM 3732-O1				1.000	
05JA105D2	3		G9J220258-1	20	1613B/WATER		1.000	L
05JA105D2	4	CP0105A	DB-225 CPSM 3732-O1				1.000	
05JA105D2	5	ST0105A	CS3 09DXN425				1.000	
05JA105D2	6	SB0105	Solvent Blank C-14				1.000	
05JA105D2	7	LQ2K8-3-AC	G9L120491-3RX	10	8290/SOLID	75	10.310	g
05JA105D2	8	LQ2LD-3-AC	G9L120491-7RX	10	8290/SOLID		10.100	g
05JA105D2	9	LQ2LE-3-AC	G9L120491-8RX	10	8290/SOLID		10.020	g
05JA105D2	10	LQ2LE-1-AF	G9L120491-8S	10	8290/SOLID		10.080	g
05JA105D2	11	LQ2LE-1-AG	G9L120491-8D	10	8290/SOLID		10.170	g
05JA105D2	12	LQ023-3-AC	G9L110588-22RX	10	8290/SOLID	76	10.010	g
05JA105D2	13	LQ027-3-AC	G9L110588-25RX	10	8290/SOLID		10.030	g
05JA105D2	14	LQ027-1-AD	G9L110588-25S	10	8290/SOLID		10.180	g
05JA105D2	15	LQ027-1-AE	G9L110588-25D	10	8290/SOLID		10.030	g
05JA105D2	16	SB0105A	Solvent Blank C-14				1.000	
05JA105D2	17	ST0105B	CS3 09DXN425				1.000	
05JA105D2	18						1.000	
05JA105D2	19						1.000	
05JA105D2	20						1.000	
05JA105D2	21		MG 01/05/10				1.000	

log file checked
1-05-10 am

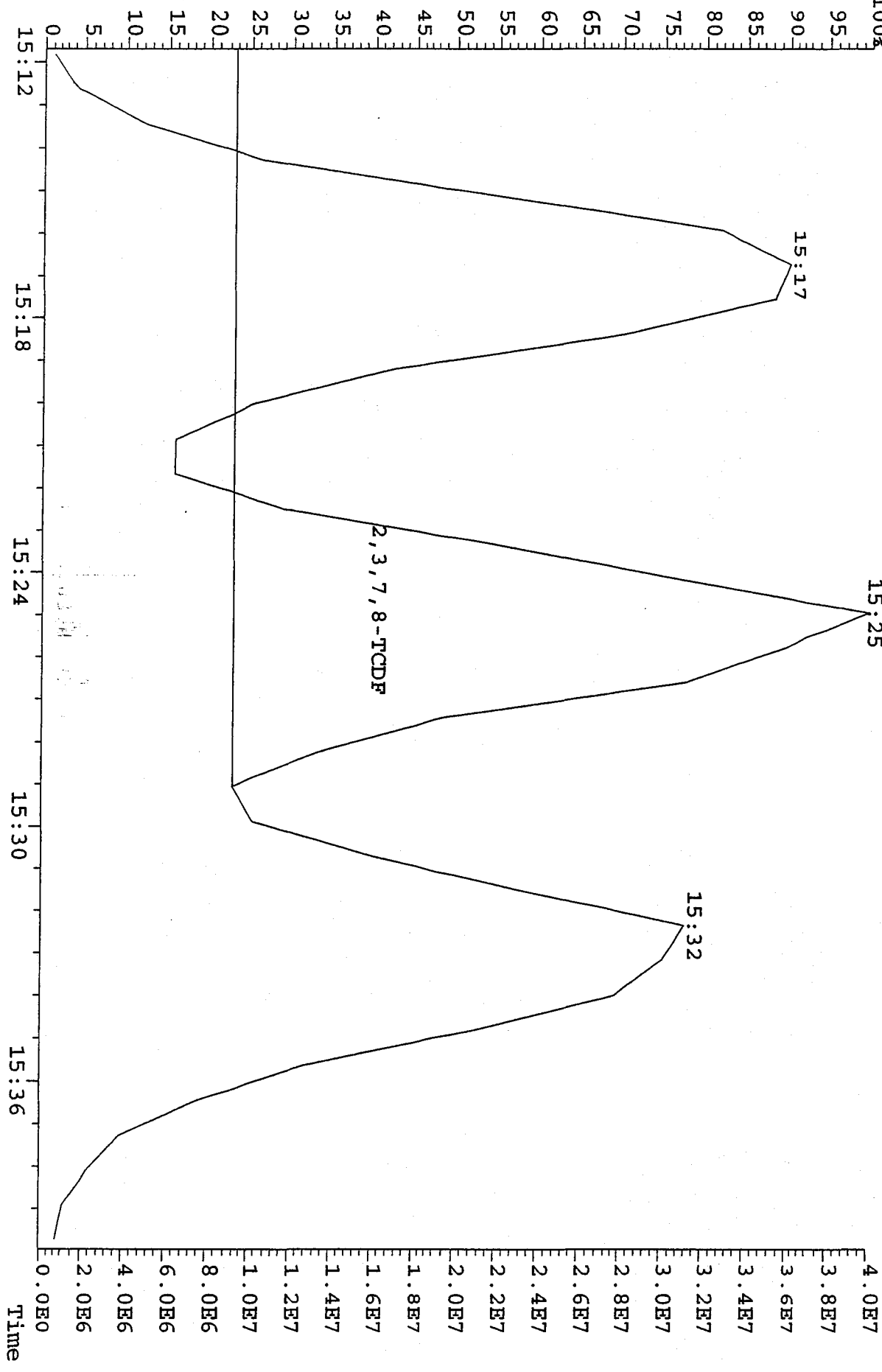
Peak Locate Examination: 5-JAN-2010:10:10 File:05JA105D2
 Experiment:DB225 Function:1 Reference:PFK



Peak Locate Examination: 5-JAN-2010:20:59 File:RSCCHK05JA105D2
 Experiment:DB225 Function:1 Reference:PKK



File: 05JJA105D2 #1-1242 Acq: 5-JAN-2010 12:03:47 GC EI+ Voltage SIR 70SE
 305.8987 S:4 Exp:DB225
 Sample Text: CP0105A : DB-225 CPSM 3732-01



Run: 05JA105D2 Analyte: DB225 Cal: DB2250104105D2

ST0104D : CS-1 09DXN422 ST0104E : CS-2 09DXN423 ST0104F : CS-3 09DXN425
 ST0104G : CS-5 09DXN456 ST0104H : CS-4 09DXN426

04JA10B5D204JA10B5D204JA10B5D204JA10B5D204JA10B5D204JA10B5D2

Name	Mean	S. D.	%RSD	RRF							
				S3	S4	S5	S6	S7			
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.664	0.062	3.75 %	1.65	1.58	1.73	1.72	1.64			
2,3,7,8-TCDF	1.014	0.078	7.69 %	1.14	0.94	0.97	1.01	1.00			
13C-2,3,7,8-TCDD	0.951	0.045	4.78 %	0.98	0.90	0.99	0.98	0.91			
2,3,7,8-TCDD	1.183	0.038	3.23 %	1.19	1.21	1.12	1.18	1.22			
37Cl-2,3,7,8-TCDD	2.068	0.541	26.2 %	2.60	2.20	1.15	2.23	2.16			

WATER, 8290, Dioxins/Furans

Northgate Environmental Management, Inc.

Sample ID: EB121109-SO-A1

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....: G9L120491 - 009
Date Sampled....: 12/11/09
Prep Date....: 12/14/09
Prep Batch #: 9348326
Initial Wgt/Vol : 1051.7 mL

Work Order #....: LQ2241AA
Date Received....: 12/12/09
Analysis Date....: 12/17/09
Dilution Factor....: 0.95
Analyst ID....: Sonia Ouni

Matrix....: WATER
Instrument ID....: 1D5

Units....: pg/L

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	ND	4.8	1.0	0
1,2,3,7,8-PeCDD	ND	24	1.0	0
1,2,3,4,7,8-HxCDD	ND	24	0.1	0
1,2,3,6,7,8-HxCDD	ND	24	0.1	0
1,2,3,7,8,9-HxCDD	ND	24	0.1	0
1,2,3,4,6,7,8-HpCDD	2.3 J	24	0.01	0.023
OCDD	3.0 J Q B	48	0.0003	0.00090
2,3,7,8-TCDF	7.2 CON B	4.8	0.1	0.72
1,2,3,7,8-PeCDF	5.5 J B	24	0.03	0.16
2,3,4,7,8-PeCDF	2.7 J Q	24	0.3	0.81
1,2,3,4,7,8-HxCDF	8.9 J B	24	0.1	0.89
1,2,3,6,7,8-HxCDF	5.1 J	24	0.1	0.51
2,3,4,6,7,8-HxCDF	ND	24	0.1	0
1,2,3,7,8,9-HxCDF	ND	24	0.1	0
1,2,3,4,6,7,8-HpCDF	16 J	24	0.01	0.16
1,2,3,4,7,8,9-HpCDF	6.7 J	24	0.01	0.067
OCDF	35 J B	48	0.0003	0.010

Total TEQ Concentration

3.4

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	77	40 - 135
13C-1,2,3,7,8-PeCDD	68	40 - 135
13C-1,2,3,6,7,8-HxCDD	87	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	90	40 - 135
13C-OCDD	84	40 - 135
13C-2,3,7,8-TCDF	78	40 - 135
13C-1,2,3,7,8-PeCDF	68	40 - 135
13C-1,2,3,4,7,8-HxCDF	87	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	95	40 - 135

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: EB121109-SO-A1

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G9L120491 - 009	Work Order #....:	LQ2241AA	Matrix....:	WATER
Date Sampled....:	12/11/09	Date Received....:	12/12/09	Instrument ID....:	1D5
Prep Date....:	12/14/09	Analysis Date....:	12/17/09		
Prep Batch #:	9348326	Dilution Factor....:	0.95	Units.....:	pg/L
Initial Wgt/Vol :	1051.7 mL	Analyst ID....:	Sonia Ouni		

Notes:

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

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

Northgate Environmental Management, Inc.

Client Sample ID: EB121109-SO-A1

Trace Level Organic Compounds

Lot-Sample #...: G9L120491-009 Work Order #...: LQ2241AA Matrix.....: WATER
 Date Sampled...: 12/11/09 Date Received...: 12/12/09
 Prep Date.....: 12/14/09 Analysis Date...: 12/17/09
 Prep Batch #...: 9348326
 Dilution Factor: 0.95

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	4.8	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	24	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	24	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	24	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	24	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	2.3 J	24	pg/L	SW846 8290
OCDD	3.0 J,Q,B	48	pg/L	SW846 8290
2,3,7,8-TCDF	7.2 CON,B	4.8	pg/L	SW846 8290
1,2,3,7,8-PeCDF	5.5 J,B	24	pg/L	SW846 8290
2,3,4,7,8-PeCDF	2.7 J,Q	24	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	8.9 J,B	24	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	5.1 J	24	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	24	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	ND	24	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	16 J	24	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	6.7 J	24	pg/L	SW846 8290
OCDF	35 J,B	48	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	77	(40 - 135)
13C-1,2,3,7,8-PeCDD	68	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	90	(40 - 135)
13C-OCDD	84	(40 - 135)
13C-2,3,7,8-TCDF	78	(40 - 135)
13C-1,2,3,7,8-PeCDF	68	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	95	(40 - 135)

NOTE(S) :

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

QC DATA ASSOCIATION SUMMARY

G9L120491

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	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
002	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
003	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
004	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
005	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
006	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
007	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
008	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
009	WATER	SW846 8290		9348326	

METHOD BLANK REPORT

Trace Level Organic Compounds

Client Lot #...: G9L120491
 MB Lot-Sample #: G9L140000-326

Work Order #...: LQ3ME1AA

Matrix.....: WATER

Prep Date.....: 12/14/09

Analysis Date...: 12/17/09

Prep Batch #...: 9348326

Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND	10	pg/L	SW846 8290
1,2,3,7,8-PeCDD	ND	50	pg/L	SW846 8290
1,2,3,4,7,8-HxCDD	ND	50	pg/L	SW846 8290
1,2,3,6,7,8-HxCDD	ND	50	pg/L	SW846 8290
1,2,3,7,8,9-HxCDD	ND	50	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDD	ND	50	pg/L	SW846 8290
OCDD	2.7 J	100	pg/L	SW846 8290
2,3,7,8-TCDF	1.7 J,Q	10	pg/L	SW846 8290
1,2,3,7,8-PeCDF	2.5 J,Q	50	pg/L	SW846 8290
2,3,4,7,8-PeCDF	ND	50	pg/L	SW846 8290
1,2,3,4,7,8-HxCDF	3.4 J,Q	50	pg/L	SW846 8290
1,2,3,6,7,8-HxCDF	ND	50	pg/L	SW846 8290
2,3,4,6,7,8-HxCDF	ND	50	pg/L	SW846 8290
1,2,3,7,8,9-HxCDF	3.6 J,Q	50	pg/L	SW846 8290
1,2,3,4,6,7,8-HpCDF	ND	50	pg/L	SW846 8290
1,2,3,4,7,8,9-HpCDF	ND	50	pg/L	SW846 8290
OCDF	4.0 J	100	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	80	(40 - 135)
13C-1,2,3,7,8-PeCDD	80	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	87	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	100	(40 - 135)
13C-OCDD	101	(40 - 135)
13C-2,3,7,8-TCDF	78	(40 - 135)
13C-1,2,3,7,8-PeCDF	76	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	86	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	94	(40 - 135)

NOTE(S) :

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

J Estimated result. Result is less than the reporting limit.

Q Estimated maximum possible concentration (EMPC).

LABORATORY CONTROL SAMPLE EVALUATION REPORT

Trace Level Organic Compounds

Client Lot #....: G9L120491 Work Order #....: LQ3ME1AC Matrix.....: WATER
 LCS Lot-Sample#: G9L140000-326
 Prep Date.....: 12/14/09 Analysis Date...: 12/17/09
 Prep Batch #....: 9348326
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
2,3,7,8-TCDD	93	(64 - 142)	SW846 8290
1,2,3,7,8-PeCDD	97	(71 - 140)	SW846 8290
1,2,3,4,7,8-HxCDD	100	(56 - 146)	SW846 8290
1,2,3,6,7,8-HxCDD	104	(73 - 144)	SW846 8290
1,2,3,7,8,9-HxCDD	105	(71 - 151)	SW846 8290
1,2,3,4,6,7,8-HpCDD	100	(78 - 139)	SW846 8290
OCDD	101	(80 - 132)	SW846 8290
2,3,7,8-TCDF	98	(71 - 142)	SW846 8290
1,2,3,7,8-PeCDF	96	(76 - 135)	SW846 8290
2,3,4,7,8-PeCDF	95	(74 - 137)	SW846 8290
1,2,3,4,7,8-HxCDF	101	(75 - 131)	SW846 8290
1,2,3,6,7,8-HxCDF	100	(76 - 133)	SW846 8290
2,3,4,6,7,8-HxCDF	100	(80 - 137)	SW846 8290
1,2,3,7,8,9-HxCDF	105	(77 - 142)	SW846 8290
1,2,3,4,6,7,8-HpCDF	102	(79 - 133)	SW846 8290
1,2,3,4,7,8,9-HpCDF	108	(83 - 130)	SW846 8290
OCDF	103	(72 - 140)	SW846 8290

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	78	(40 - 135)
13C-1,2,3,7,8-PeCDD	73	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	93	(40 - 135)
13C-OCDD	96	(40 - 135)
13C-2,3,7,8-TCDF	75	(40 - 135)
13C-1,2,3,7,8-PeCDF	71	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	89	(40 - 135)

NOTE (S) :

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot #...: G9L120491 Work Order #...: LQ3ME1AC Matrix.....: WATER
 LCS Lot-Sample#: G9L140000-326
 Prep Date.....: 12/14/09 Analysis Date...: 12/17/09
 Prep Batch #...: 9348326
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>METHOD</u>
2,3,7,8-TCDD	200	187	pg/L	93	SW846 8290
1,2,3,7,8-PeCDD	1000	967	pg/L	97	SW846 8290
1,2,3,4,7,8-HxCDD	1000	999	pg/L	100	SW846 8290
1,2,3,6,7,8-HxCDD	1000	1040	pg/L	104	SW846 8290
1,2,3,7,8,9-HxCDD	1000	1050	pg/L	105	SW846 8290
1,2,3,4,6,7,8-HpCDD	1000	998	pg/L	100	SW846 8290
OCDD	2000	2020	pg/L	101	SW846 8290
2,3,7,8-TCDF	200	196	pg/L	98	SW846 8290
1,2,3,7,8-PeCDF	1000	957	pg/L	96	SW846 8290
2,3,4,7,8-PeCDF	1000	951	pg/L	95	SW846 8290
1,2,3,4,7,8-HxCDF	1000	1010	pg/L	101	SW846 8290
1,2,3,6,7,8-HxCDF	1000	996	pg/L	100	SW846 8290
2,3,4,6,7,8-HxCDF	1000	1000	pg/L	100	SW846 8290
1,2,3,7,8,9-HxCDF	1000	1050	pg/L	105	SW846 8290
1,2,3,4,6,7,8-HpCDF	1000	1020	pg/L	102	SW846 8290
1,2,3,4,7,8,9-HpCDF	1000	1080	pg/L	108	SW846 8290
OCDF	2000	2060	pg/L	103	SW846 8290

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	78	(40 - 135)
13C-1,2,3,7,8-PeCDD	73	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	80	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	93	(40 - 135)
13C-OCDD	96	(40 - 135)
13C-2,3,7,8-TCDF	75	(40 - 135)
13C-1,2,3,7,8-PeCDF	71	(40 - 135)
13C-1,2,3,4,7,8-HxCDF	83	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDF	89	(40 - 135)

NOTE (S) :

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

Bold print denotes control parameters

ICV/CCV
Run Logs

Initial Calibration Checklist Dioxin Methods

ICAL ID (8290, 1613, T09, 23, 0023A, TETRAS) 12150905

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

Column ID DB5 Instrument ID 105

STD ID's ST1215(J, I, H, F, K) STD Solution 09DXN (226, 227, 384, 311, 412)

GC Program OCDD Multiplier Setting 270

Analyzed By M.G. Date Analyzed 12/15/09

Prepared By M.G. Date Prepared 12/16/09

Reviewed By JRB Date Reviewed 12/16/09

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?*	✓ ①	✓ ①
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:

① %RSD > 25% for 37Cl-2,3,7,8-TCDD. ∴ do not use this curve for samples that require the reporting of surrogates by Method 23.

CS3 Retention Times: 13C-1,2,3,4-TCDD 16:39
13C-1,2,3,7,8,9-HxCDD 31:10

*Method 8290/T09/M0023A: %RSD ≤ 20% for natives, ≤ 30% for labeled compounds; S/N ≥ 10
Method 1613B: %RSD ≤ 20% natives, ≤ 30% labeled compounds; S/N ≥ 10
Method 23: %RSD ≤ values specified in Table 5, Method 23; S/N ≥ 2.5

Run: 15DR091D5IC7 Analyte: 8290

Cal: 82901215091D5

ST1215J :CS1 09DXN236
ST1215F :CS4 09DXN311

ST1215I :CS2 09DXN237
ST1215K :CS5 09DXN412

ST1215H :CS3 09DXN384

15DR091D5 15DR091D5 15DR091D5 15DR091D5 15DR091D5

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

13C-2,3,7,8-TCDF	1.652	0.065	3.91 %	1.59	1.64	1.72	1.72	1.59
2,3,7,8-TCDF	1.125	0.124	11.0 %	0.98	1.06	1.20	1.24	1.21
Total TCDF	1.125	0.124	11.0 %	0.98	1.00	1.20	1.24	1.21

13C-2,3,7,8-TCDD	0.944	0.035	3.72 %	0.89	0.96	0.97	0.98	0.92
2,3,7,8-TCDD	1.185	0.109	9.18 %	1.07	1.08	1.20	1.29	1.29
Total TCDD	1.185	0.109	9.18 %	1.07	1.08	1.20	1.29	1.29

37C1-2,3,7,8-TCDD	2.774	0.760	27.4 %	2.08	2.28	2.52	3.00	3.98
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13C-1,2,3,7,8-PCDF	1.186	0.039	3.32 %	1.16	1.17	1.23	1.23	1.15
1,2,3,7,8-PCDF	1.332	0.138	10.3 %	1.13	1.24	1.44	1.44	1.41
2,3,4,7,8-PCDF	1.266	0.137	10.8 %	1.07	1.19	1.40	1.36	1.31
Total F2 PCDF	1.299	0.137	10.5 %	1.10	1.22	1.42	1.40	1.36
Total F1 PCDF	1.299	0.137	10.5 %	1.10	1.22	1.42	1.40	1.36

13C-1,2,3,7,8-PCDD	0.635	0.039	6.14 %	0.62	0.61	0.67	0.68	0.59
1,2,3,7,8-PCDD	1.257	0.139	11.0 %	1.08	1.13	1.33	1.36	1.38
Total PCDD	1.257	0.139	11.0 %	1.08	1.13	1.33	1.36	1.38

13C-1,2,3,7,8,9-HxCDD	-	-	-	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	1.271	0.023	1.80 %	1.30	1.25	1.25	1.29	1.27
1,2,3,4,7,8-HxCDF	1.282	0.161	12.6 %	1.05	1.18	1.36	1.43	1.40
1,2,3,6,7,8-HxCDF	1.386	0.181	13.1 %	1.11	1.30	1.45	1.55	1.52
2,3,4,6,7,8-HxCDF	1.303	0.165	12.7 %	1.06	1.20	1.41	1.42	1.42
1,2,3,7,8,9-HxCDF	1.159	0.156	13.5 %	0.93	1.07	1.26	1.31	1.22
Total HxCDF	1.282	0.165	12.9 %	1.04	1.19	1.37	1.43	1.39

13C-1,2,3,6,7,8-HxCDD	0.722	0.016	2.17 %	0.70	0.73	0.72	0.73	0.73
1,2,3,4,7,8-HxCDD	1.263	0.170	13.4 %	1.07	1.09	1.33	1.42	1.40

1,2,3,6,7,8-HxCDD	1.391	0.165	11.9	1.20	1.22	1.49	1.51	1.54
1,2,3,7,8,9-HxCDD	1.467	0.160	10.9	1.27	1.33	1.56	1.63	1.55
Total HxCDD	1.374	0.164	11.9	1.18	1.21	1.46	1.52	1.50
13C-1,2,3,4,6,7,8-HpCDF	1.050	0.033	3.13	1.06	1.07	1.07	1.07	0.99
1,2,3,4,6,7,8-HpCDF	1.549	0.179	11.6	1.27	1.46	1.68	1.66	1.66
1,2,3,4,7,8,9-HpCDF	1.307	0.148	11.3	1.09	1.22	1.38	1.46	1.38
Total HpCDF	1.428	0.162	11.4	1.18	1.34	1.53	1.56	1.52
13C-1,2,3,4,6,7,8-HpCDD	0.758	0.035	4.66	0.79	0.80	0.73	0.76	0.71
1,2,3,4,6,7,8-HpCDD	1.277	0.148	11.6	1.10	1.13	1.36	1.40	1.39
Total HpCDD	1.277	0.148	11.6	1.10	1.13	1.36	1.40	1.39
13C-OCDD	0.716	0.055	7.68	0.76	0.75	0.70	0.75	0.63
OCDF	1.578	0.226	14.3	1.25	1.44	1.68	1.74	1.78
OCDD	1.126	0.127	11.3	0.95	1.03	1.20	1.21	1.23

Run #1 Filename 15DE091D5 S: 12 I: 1
 Acquired: 15-DEC-09 18:09:25 Processed: 15-DEC-09 21:01:32
 Run: 15DE091D5IC₇ Analyte: 8290 Cal: 82901215091D5

Comments:

Sample text: ST1215J :CS1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	296534000	0.84 y	16:38	-	100.00	n
13C-2,3,7,8-TCDF	470888000	0.81 y	16:11	1.59	100.00	n
2,3,7,8-TCDF	2312541	0.74 y	16:12	0.98	0.50	n
Total TCDF	-	- n	-	0.98	0.50	n
13C-2,3,7,8-TCDD	264639000	0.83 y	16:50	0.89	100.00	n
2,3,7,8-TCDD	1412117	0.76 y	16:51	1.07	0.50	n
Total TCDD	-	- n	-	1.07	0.50	n
37Cl-2,3,7,8-TCDD	3081040	1.00 y	16:51	2.08	0.50	n
13C-1,2,3,7,8-PeCDF	343026000	1.63 y	20:45	1.16	100.00	n
1,2,3,7,8-PeCDF	9715820	1.50 y	20:46	1.13	2.50	n
2,3,4,7,8-PeCDF	9155970	1.60 y	21:59	1.07	2.50	n
Total F2 PeCDF	-	- n	-	1.10	5.00	n
Total F1 PeCDF	-	- n	-	1.10	5.00	n
13C-1,2,3,7,8-PeCDD	183758800	1.65 y	22:36	0.62	100.00	n
1,2,3,7,8-PeCDD	4983240	1.70 y	22:38	1.08	2.50	n
Total PeCDD	-	- n	-	1.08	2.50	n
13C-1,2,3,7,8,9-HxCDD	207928000	1.27 y	31:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	269347300	0.54 y	28:23	1.30	100.00	n
1,2,3,4,7,8-HxCDF	7074840	1.35 y	28:25	1.05	2.50	n
1,2,3,6,7,8-HxCDF	7474140	1.19 y	28:44	1.11	2.50	n
2,3,4,6,7,8-HxCDF	7154530	1.26 y	30:16	1.06	2.50	n
1,2,3,7,8,9-HxCDF	6271170	1.33 y	31:27	0.93	2.50	n
Total HxCDF	-	- n	-	1.04	10.00	n
13C-1,2,3,6,7,8-HxCDD	144722100	1.29 y	30:41	0.70	100.00	n
1,2,3,4,7,8-HxCDD	3865340	1.24 y	30:33	1.07	2.50	n
1,2,3,6,7,8-HxCDD	4334320	1.31 y	30:42	1.20	2.50	n
1,2,3,7,8,9-HxCDD	4586830	1.29 y	31:12	1.27	2.50	n
Total HxCDD	-	- n	-	1.18	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	219851700	0.45 y	33:17	1.06	100.00	n
1,2,3,4,6,7,8-HpCDF	6989120	1.07 y	33:18	1.27	2.50	n
1,2,3,4,7,8,9-HpCDF	6010300	1.02 y	34:30	1.09	2.50	n
Total HpCDF	-	- n	-	1.18	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	163274200	1.05 y	34:11	0.79	100.00	n
1,2,3,4,6,7,8-HpCDD	4488270	1.17 y	34:12	1.10	2.50	n
Total HpCDD	-	- n	-	1.10	2.50	n
13C-OCDD	313979000	0.92 y	36:46	0.76	200.00	n
OCDF	9818850	0.90 y	36:52	1.25	5.00	n

OCDD 7468890 0.89 y 36:47 0.95 5.00 n

Run #2 Filename 15DE091D5 S: 11 I: 1
 Acquired: 15-DEC-09 17:27:35 Processed: 15-DEC-09 21:01:32
 Run: 15DE091D5IC Analyte: 8290 Cal: 82901215091D5

Comments:

Sample text: ST1215I :CS2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	292528000	0.83 y	16:38	-	100.00	n
13C-2,3,7,8-TCDF	481023000	0.80 y	16:12	1.64	100.00	n
2,3,7,8-TCDF	9613100	0.79 y	16:13	1.00	2.00	n
Total TCDF	-	- n	-	1.00	2.00	n
13C-2,3,7,8-TCDD	281531000	0.81 y	16:50	0.96	100.00	n
2,3,7,8-TCDD	6075060	0.74 y	16:51	1.08	2.00	n
Total TCDD	-	- n	-	1.08	2.00	n
37Cl-2,3,7,8-TCDD	13345600	1.00 y	16:51	2.28	2.00	n
13C-1,2,3,7,8-PeCDF	341601000	1.67 y	20:46	1.17	100.00	n
1,2,3,7,8-PeCDF	42479400	1.65 y	20:48	1.24	10.00	n
2,3,4,7,8-PeCDF	40595000	1.61 y	21:59	1.19	10.00	n
Total F2 PeCDF	-	- n	-	1.22	20.00	n
Total F1 PeCDF	-	- n	-	1.22	20.00	n
13C-1,2,3,7,8-PeCDD	179350900	1.64 y	22:37	0.61	100.00	n
1,2,3,7,8-PeCDD	20249870	1.68 y	22:38	1.13	10.00	n
Total PeCDD	-	- n	-	1.13	10.00	n
13C-1,2,3,7,8,9-HxCDD	207799200	1.28 y	31:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	259777700	0.54 y	28:24	1.25	100.00	n
1,2,3,4,7,8-HxCDF	30618800	1.27 y	28:25	1.18	10.00	n
1,2,3,6,7,8-HxCDF	33860700	1.26 y	28:43	1.30	10.00	n
2,3,4,6,7,8-HxCDF	31088400	1.27 y	30:15	1.20	10.00	n
1,2,3,7,8,9-HxCDF	27767200	1.26 y	31:27	1.07	10.00	n
Total HxCDF	-	- n	-	1.19	40.00	n
13C-1,2,3,6,7,8-HxCDD	150835100	1.31 y	30:41	0.73	100.00	n
1,2,3,4,7,8-HxCDD	16499520	1.36 y	30:33	1.09	10.00	n
1,2,3,6,7,8-HxCDD	18469280	1.24 y	30:43	1.22	10.00	n
1,2,3,7,8,9-HxCDD	20003410	1.34 y	31:11	1.33	10.00	n
Total HxCDD	-	- n	-	1.21	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	221443000	0.43 y	33:18	1.07	100.00	n
1,2,3,4,6,7,8-HpCDF	32400400	1.08 y	33:18	1.46	10.00	n
1,2,3,4,7,8,9-HpCDF	27008200	1.07 y	34:30	1.22	10.00	n
Total HpCDF	-	- n	-	1.34	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	165510600	1.06 y	34:10	0.80	100.00	n
1,2,3,4,6,7,8-HpCDD	18751840	1.06 y	34:11	1.13	10.00	n
Total HpCDD	-	- n	-	1.13	10.00	n
13C-OCDD	310394000	0.92 y	36:46	0.75	200.00	n
OCDF	44599800	0.92 y	36:52	1.44	20.00	n
OCDD	31962700	0.89 y	36:47	1.03	20.00	n

Run #3 Filename 15DE091D5 S: 10 I: 1
 Acquired: 15-DEC-09 16:45:45 Processed: 15-DEC-09 21:01:33
 Run: 15DE091D5IC Analyte: 8290 Cal: 82901215091D5

Comments:

Sample text: ST1215H :CS3 09DXN384

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	282997000	0.80 y	16:39	-	100.00	n
13C-2,3,7,8-TCDF	485925000	0.80 y	16:11	1.72	100.00	n
2,3,7,8-TCDF	58173600	0.79 y	16:12	1.20	10.00	n
Total TCDF	-	- n	-	1.20	10.00	n
13C-2,3,7,8-TCDD	273429000	0.82 y	16:50	0.97	100.00	n
2,3,7,8-TCDD	32819100	0.81 y	16:51	1.20	10.00	n
Total TCDD	-	- n	-	1.20	10.00	n
37Cl-2,3,7,8-TCDD	71444200	1.00 y	16:51	2.52	10.00	n
13C-1,2,3,7,8-PeCDF	348088000	1.61 y	20:46	1.23	100.00	n
1,2,3,7,8-PeCDF	250716300	1.62 y	20:47	1.44	50.00	n
2,3,4,7,8-PeCDF	243195000	1.58 y	21:59	1.40	50.00	n
Total F2 PeCDF	-	- n	-	1.42	100.00	n
Total F1 PeCDF	-	- n	-	1.42	100.00	n
13C-1,2,3,7,8-PeCDD	190798000	1.61 y	22:36	0.67	100.00	n
1,2,3,7,8-PeCDD	127243300	1.64 y	22:38	1.33	50.00	n
Total PeCDD	-	- n	-	1.33	50.00	n
13C-1,2,3,7,8,9-HxCDD	226312800	1.29 y	31:10	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	282199300	0.54 y	28:23	1.25	100.00	n
1,2,3,4,7,8-HxCDF	191624200	1.27 y	28:25	1.36	50.00	n
1,2,3,6,7,8-HxCDF	205060600	1.27 y	28:44	1.45	50.00	n
2,3,4,6,7,8-HxCDF	199315100	1.24 y	30:15	1.41	50.00	n
1,2,3,7,8,9-HxCDF	178429100	1.26 y	31:26	1.26	50.00	n
Total HxCDF	-	- n	-	1.37	200.00	n
13C-1,2,3,6,7,8-HxCDD	163311700	1.25 y	30:42	0.72	100.00	n
1,2,3,4,7,8-HxCDD	108420300	1.35 y	30:33	1.33	50.00	n
1,2,3,6,7,8-HxCDD	121450000	1.24 y	30:43	1.49	50.00	n
1,2,3,7,8,9-HxCDD	127698700	1.24 y	31:12	1.56	50.00	n
Total HxCDD	-	- n	-	1.46	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	241297300	0.43 y	33:17	1.07	100.00	n
1,2,3,4,6,7,8-HpCDF	203088800	1.05 y	33:18	1.68	50.00	n
1,2,3,4,7,8,9-HpCDF	166060600	1.06 y	34:30	1.38	50.00	n
Total HpCDF	-	- n	-	1.53	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	166014500	1.09 y	34:10	0.73	100.00	n
1,2,3,4,6,7,8-HpCDD	113093500	1.09 y	34:11	1.36	50.00	n
Total HpCDD	-	- n	-	1.36	50.00	n
13C-OCDD	315987000	0.91 y	36:47	0.70	200.00	n
OCDF	265845000	0.91 y	36:52	1.68	100.00	n
OCDD	189698000	0.90 y	36:47	1.20	100.00	n

Run #4 Filename 15DE091D5 S: 8 I: 1
 Acquired: 15-DEC-09 15:22:04 Processed: 15-DEC-09 21:01:34
 Run: 15DE091D5IC7 Analyte: 8290 Cal: 82901215091D5
 Comments: 270V

Sample text: ST1215F :CS4 09DXN311

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	293563000	0.83 y	16:38	-	100.00	n
13C-2,3,7,8-TCDF	504639000	0.80 y	16:11	1.72	100.00	n
2,3,7,8-TCDF	250202000	0.79 y	16:12	1.24	40.00	n
Total TCDF	-	- n	-	1.24	40.00	n
13C-2,3,7,8-TCDD	286316000	0.82 y	16:49	0.98	100.00	n
2,3,7,8-TCDD	147326400	0.79 y	16:51	1.29	40.00	n
Total TCDD	-	- n	-	1.29	40.00	n
37Cl-2,3,7,8-TCDD	352624000	1.00 y	16:50	3.00	40.00	n
13C-1,2,3,7,8-PeCDF	360503000	1.63 y	20:46	1.23	100.00	n
1,2,3,7,8-PeCDF	1036058000	1.56 y	20:47	1.44	200.00	n
2,3,4,7,8-PeCDF	984065000	1.56 y	21:59	1.36	200.00	n
Total F2 PeCDF	-	- n	-	1.40	400.00	n
Total F1 PeCDF	-	- n	-	1.40	400.00	n
13C-1,2,3,7,8-PeCDD	198680100	1.63 y	22:37	0.68	100.00	n
1,2,3,7,8-PeCDD	539503000	1.60 y	22:38	1.36	200.00	n
Total PeCDD	-	- n	-	1.36	200.00	n
13C-1,2,3,7,8,9-HxCDD	213397900	1.28 y	31:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	275975000	0.54 y	28:24	1.29	100.00	n
1,2,3,4,7,8-HxCDF	787349000	1.25 y	28:25	1.43	200.00	n
1,2,3,6,7,8-HxCDF	854261000	1.25 y	28:43	1.55	200.00	n
2,3,4,6,7,8-HxCDF	785732000	1.24 y	30:15	1.42	200.00	n
1,2,3,7,8,9-HxCDF	724174000	1.25 y	31:27	1.31	200.00	n
Total HxCDF	-	- n	-	1.43	800.00	n
13C-1,2,3,6,7,8-HxCDD	156761500	1.29 y	30:41	0.73	100.00	n
1,2,3,4,7,8-HxCDD	445475000	1.31 y	30:33	1.42	200.00	n
1,2,3,6,7,8-HxCDD	473158000	1.23 y	30:43	1.51	200.00	n
1,2,3,7,8,9-HxCDD	511234000	1.27 y	31:11	1.63	200.00	n
Total HxCDD	-	- n	-	1.52	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	227894400	0.44 y	33:18	1.07	100.00	n
1,2,3,4,6,7,8-HpCDF	757485000	1.07 y	33:18	1.66	200.00	n
1,2,3,4,7,8,9-HpCDF	666451000	1.06 y	34:30	1.46	200.00	n
Total HpCDF	-	- n	-	1.56	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	163177900	1.04 y	34:10	0.76	100.00	n
1,2,3,4,6,7,8-HpCDD	457977000	1.10 y	34:11	1.40	200.00	n
Total HpCDD	-	- n	-	1.40	200.00	n
13C-OCDD	322080000	0.91 y	36:46	0.75	200.00	n
OCDF	1121648000	0.92 y	36:52	1.74	400.00	n
OCDD	782257000	0.91 y	36:47	1.21	400.00	n

Run #5 Filename 15DE091D5 S: 13 I: 1
 Acquired: 15-DEC-09 18:51:14 Processed: 15-DEC-09 21:01:34
 Run: 15DE091D5IC Analyte: 8290 Cal: 82901215091D5

Comments:

Sample text: ST1215K :CS5 09DXN412

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	164458000	0.82 y	16:39	-	100.00	n
13C-2,3,7,8-TCDF	261509000	0.81 y	16:12	1.59	100.00	n
2,3,7,8-TCDF	632517000	0.80 y	16:13	1.21	200.00	n
Total TCDF	-	- n	-	1.21	200.00	n
13C-2,3,7,8-TCDD	151694400	0.79 y	16:50	0.92	100.00	n
2,3,7,8-TCDD	392367000	0.78 y	16:51	1.29	200.00	n
Total TCDD	-	- n	-	1.29	200.00	n
37Cl-2,3,7,8-TCDD	1310606000	1.00 y	16:51	3.98	200.00	n
13C-1,2,3,7,8-PeCDF	189093600	1.66 y	20:48	1.15	100.00	n
1,2,3,7,8-PeCDF	2661700000	1.58 y	20:49	1.41	1000.00	n
2,3,4,7,8-PeCDF	2485014000	1.56 y	22:01	1.31	1000.00	n
Total F2 PeCDF	-	- n	-	1.36	2000.00	n
Total F1 PeCDF	-	- n	-	1.36	2000.00	n
13C-1,2,3,7,8-PeCDD	96926600	1.69 y	22:39	0.59	100.00	n
1,2,3,7,8-PeCDD	1336105000	1.60 y	22:40	1.38	1000.00	n
Total PeCDD	-	- n	-	1.38	1000.00	n
13C-1,2,3,7,8,9-HxCDD	106133100	1.29 y	31:13	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	134778100	0.53 y	28:28	1.27	100.00	n
1,2,3,4,7,8-HxCDF	1883473000	1.23 y	28:30	1.40	1000.00	n
1,2,3,6,7,8-HxCDF	2045998000	1.24 y	28:48	1.52	1000.00	n
2,3,4,6,7,8-HxCDF	1911423000	1.24 y	30:17	1.42	1000.00	n
1,2,3,7,8,9-HxCDF	1638574000	1.23 y	31:28	1.22	1000.00	n
Total HxCDF	-	- n	-	1.39	4000.00	n
13C-1,2,3,6,7,8-HxCDD	77866800	1.34 y	30:44	0.73	100.00	n
1,2,3,4,7,8-HxCDD	1092674000	1.26 y	30:35	1.40	1000.00	n
1,2,3,6,7,8-HxCDD	1196167000	1.28 y	30:45	1.54	1000.00	n
1,2,3,7,8,9-HxCDD	1204237000	1.28 y	31:13	1.55	1000.00	n
Total HxCDD	-	- n	-	1.50	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	105220700	0.43 y	33:18	0.99	100.00	n
1,2,3,4,6,7,8-HpCDF	1750760000	1.06 y	33:19	1.66	1000.00	n
1,2,3,4,7,8,9-HpCDF	1455976000	1.06 y	34:30	1.38	1000.00	n
Total HpCDF	-	- n	-	1.52	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	75541300	1.07 y	34:11	0.71	100.00	n
1,2,3,4,6,7,8-HpCDD	1047768000	1.09 y	34:11	1.39	1000.00	n
Total HpCDD	-	- n	-	1.39	1000.00	n
13C-OCDD	133215700	0.90 y	36:46	0.63	200.00	n
OCDF	2365810000	0.91 y	36:52	1.78	2000.00	n
OCDD	1643661000	0.90 y	36:47	1.23	2000.00	n

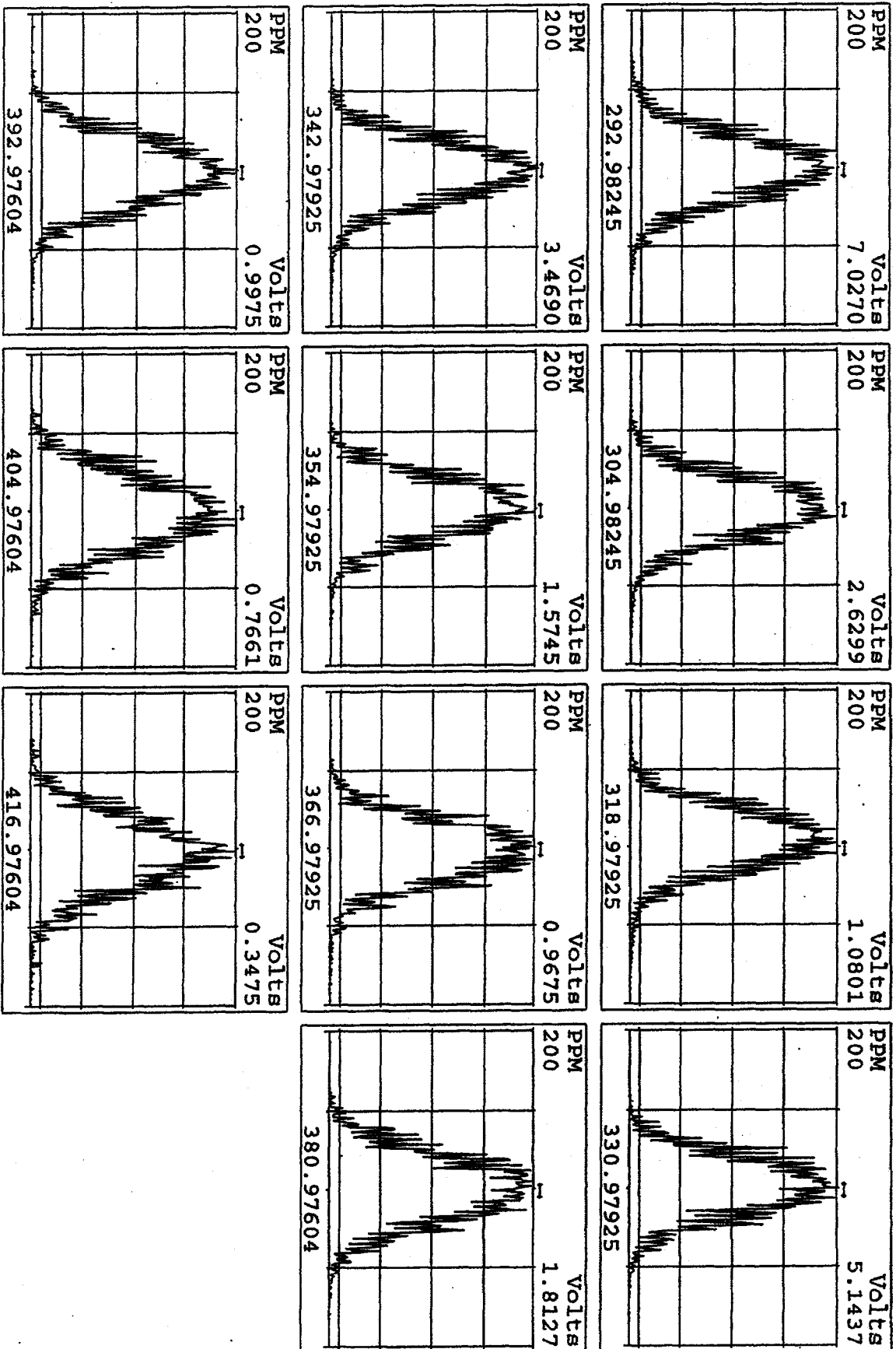
Run: 15DE091DS Analyte: TETRAS Cal: TETRAS1215091DS

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 ST1215F : CS4 09DXN311 ST1215K : CS5 09DXN412

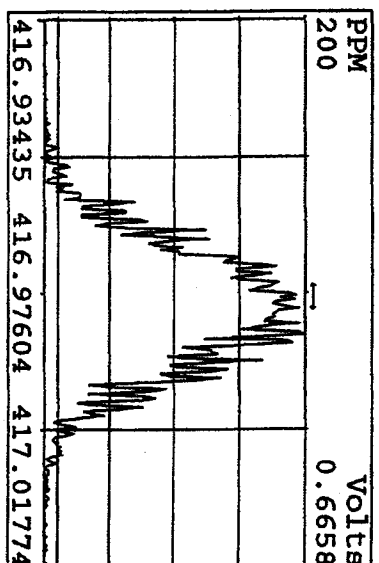
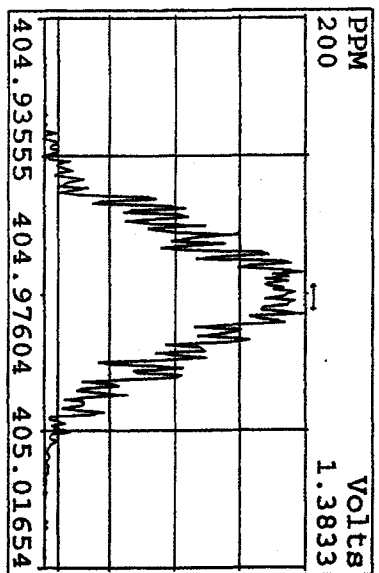
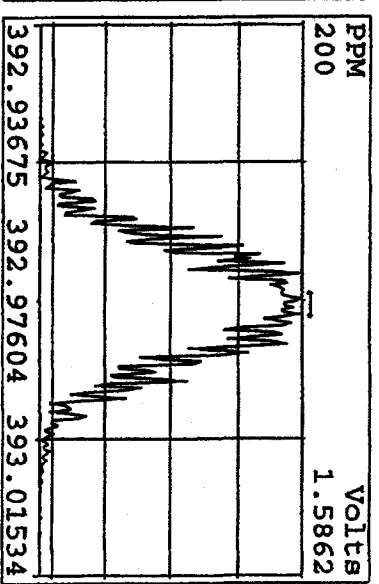
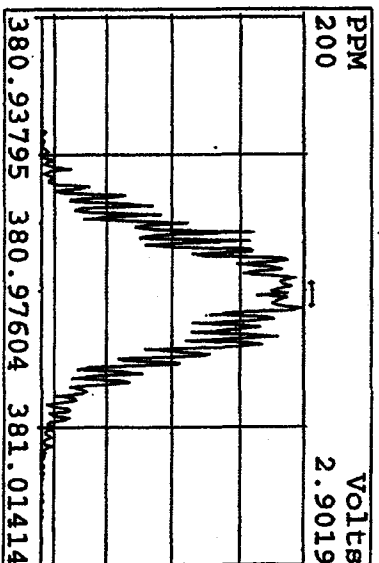
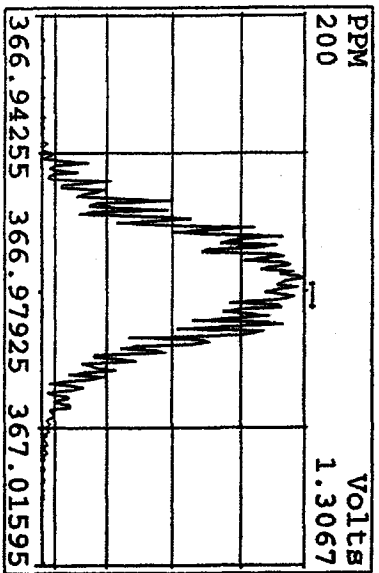
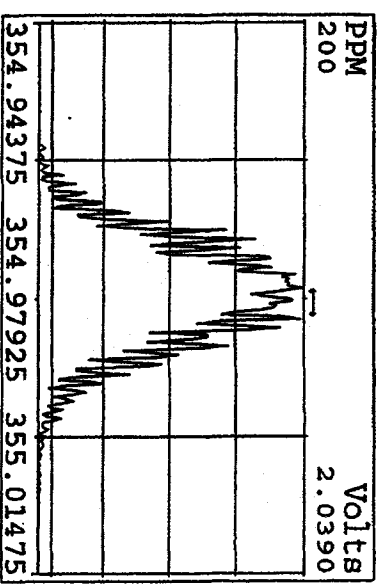
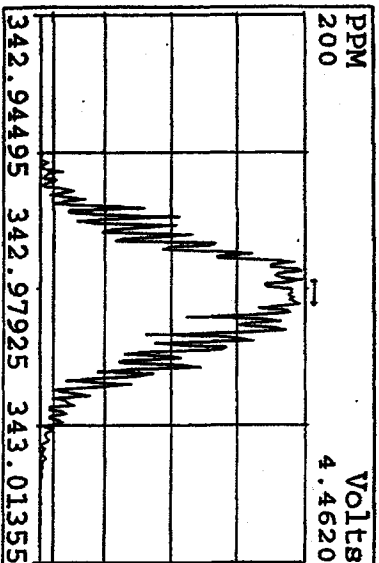
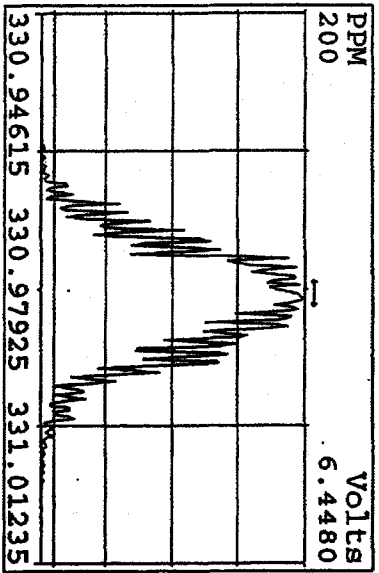
Name	Mean	S. D.	%RSD	15DE091DS				
				S12	S11	S10	S8	S13
13C-1,2,3,4-TCDD	-	-	-	RRP1	RRP2	RRP3	RRP4	RRP5
13C-2,3,7,8-TCDF	1.652	0.065	3.91 %	1.59	1.64	1.72	1.72	1.59
2,3,7,8-TCDF	1.125	0.124	11.0 %	0.98	1.00	1.20	1.24	1.21
13C-2,3,7,8-TCDD	0.944	0.035	3.72 %	0.89	0.96	0.97	0.98	0.92
2,3,7,8-TCDD	1.185	0.109	9.18 %	1.07	1.08	1.20	1.29	1.29
37Cl-2,3,7,8-TCDD	2.774	0.760	27.4 %	2.08	2.28	2.52	3.00	3.98

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
15DE091D5	1	ST1215	CS3 09DXN384				1.000	
15DE091D5	2	CP1215	DB-5 CPSM 3732-04				1.000	
15DE091D5	3	ST1215A	CS3 09DXN384				1.000	
15DE091D5	4	ST1215B	CS2 09DXN237				1.000	
15DE091D5	5	ST1215C	CS1 09DXN236				1.000	
15DE091D5	6	ST1215D	CS1 09DXN236				1.000	
15DE091D5	7	ST1215E	CS5 09DXN412				1.000	
15DE091D5	8	ST1215F	CS4 09DXN311		270V		1.000	
15DE091D5	9	ST1215G	CS5 09DXN412				1.000	
15DE091D5	10	ST1215H	CS3 09DXN384				1.000	
15DE091D5	11	ST1215I	CS2 09DXN237				1.000	
15DE091D5	12	ST1215J	CS1 09DXN236				1.000	
15DE091D5	13	ST1215K	CS5 09DXN412				1.000	
15DE091D5	14	ST1215L	2nd Source 3249-38				1.000	
15DE091D5	15						1.000	
15DE091D5	16						1.000	
15DE091D5	17						1.000	
15DE091D5	18		MG 12/15/09				1.000	

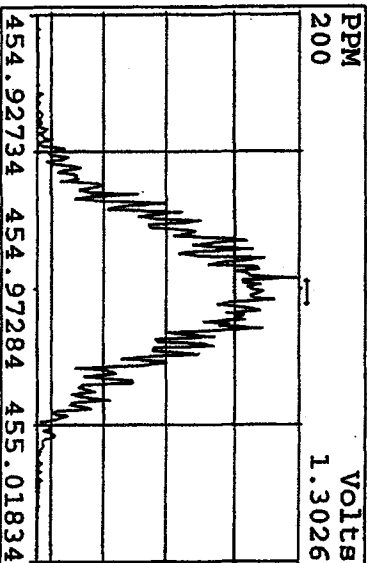
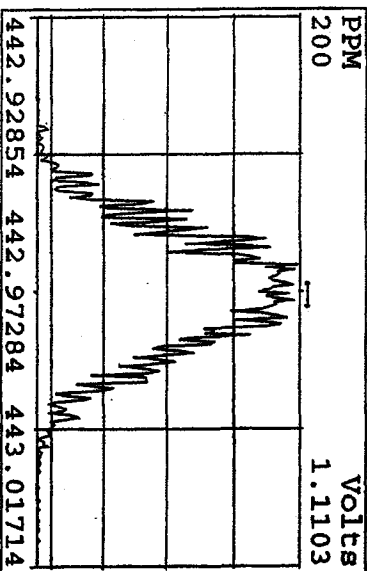
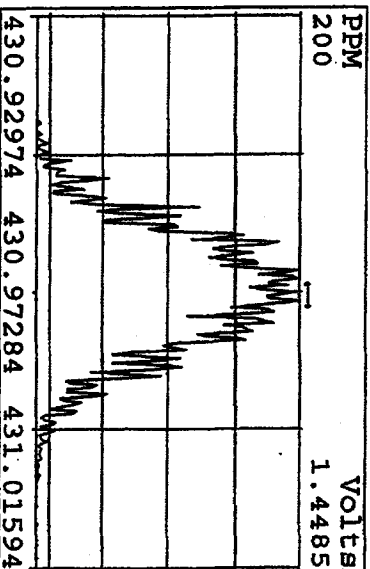
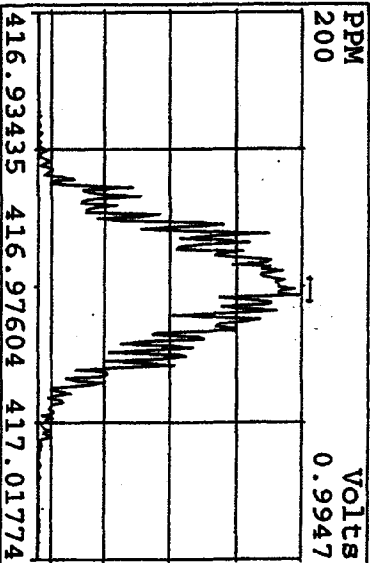
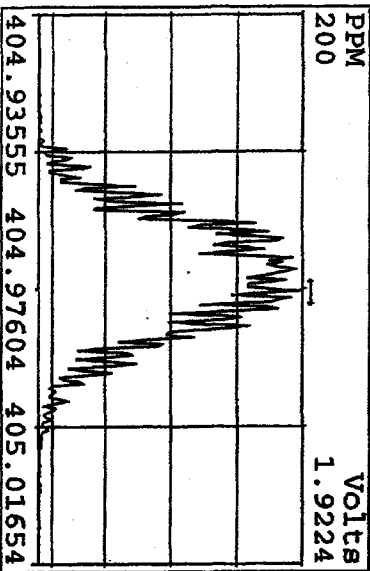
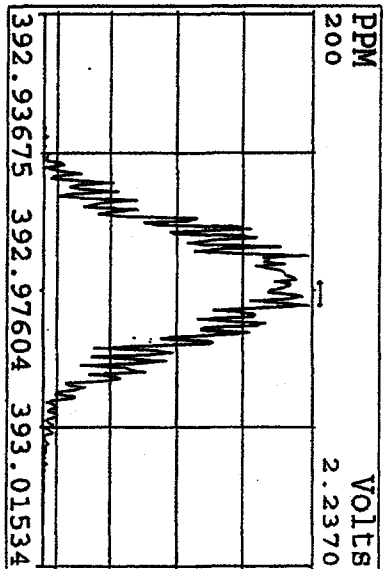
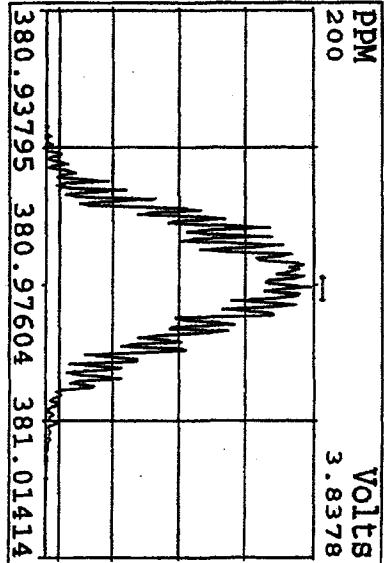
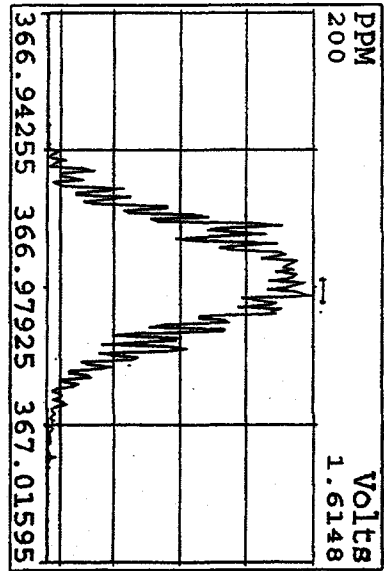
Peak Locate Examination: 15-DEC-2009: 10:08 File: 15DE091D5
Experiment: DIOXIN Function: 1 Reference: PFK



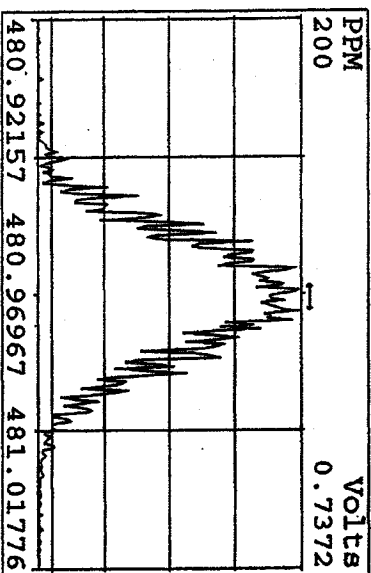
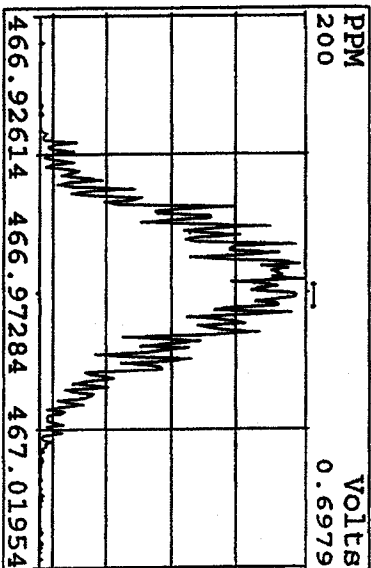
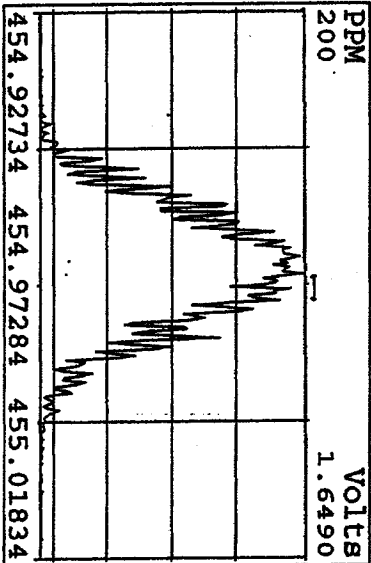
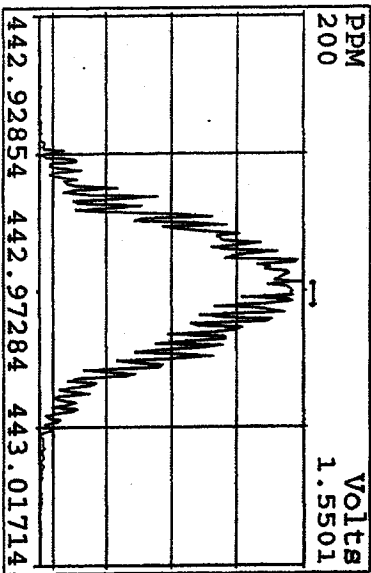
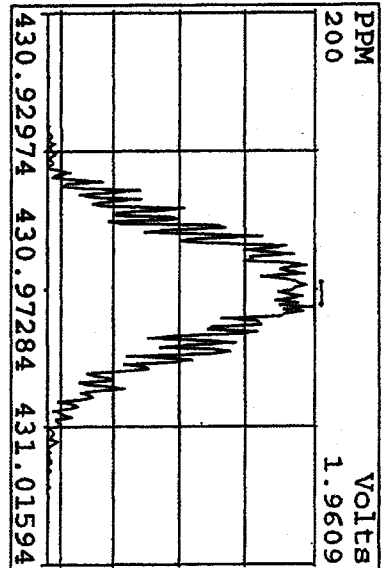
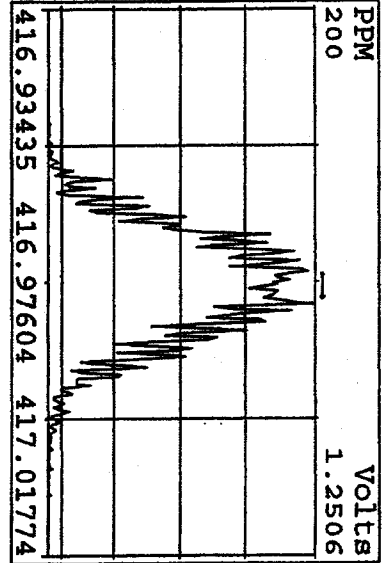
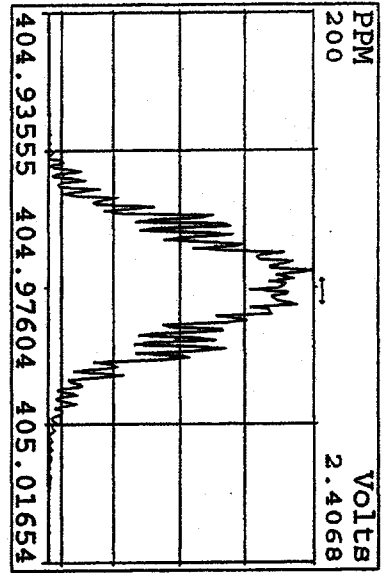
Peak Locate Examination:15-DEC-2009:10:21 File:15DE091DS
 Experiment:DIOXIN Function:2 Reference:PFK



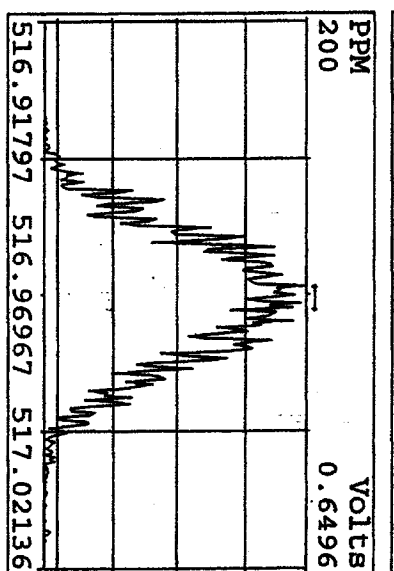
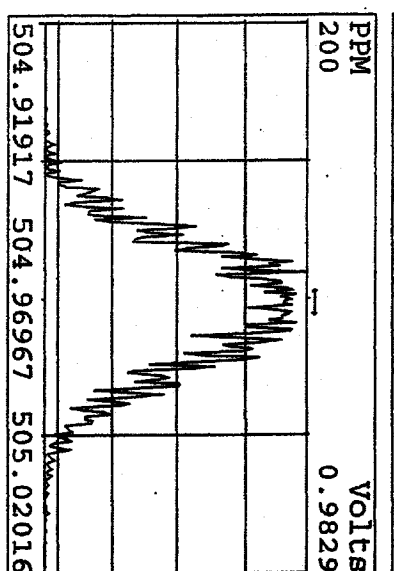
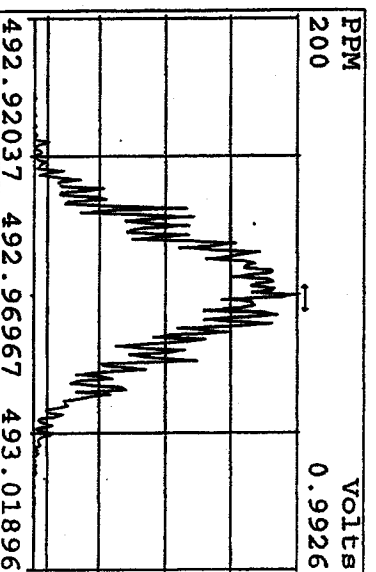
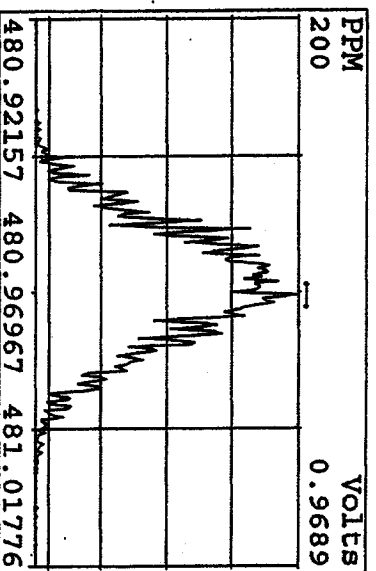
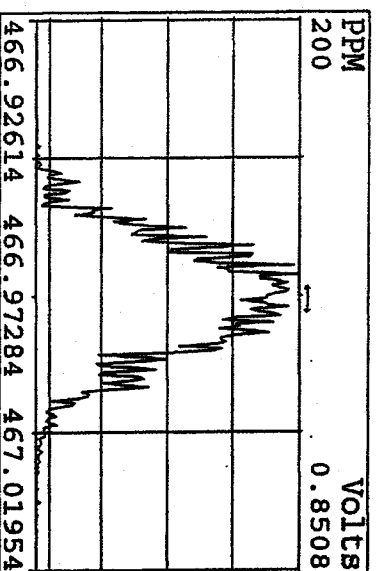
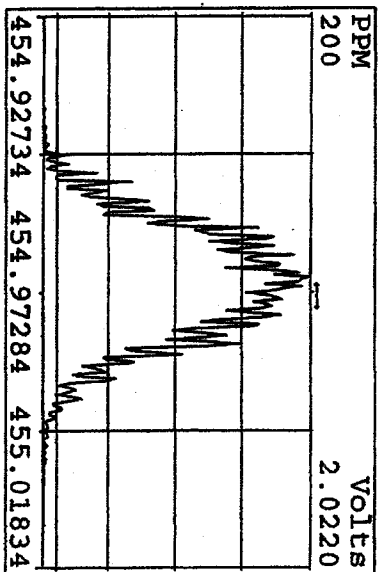
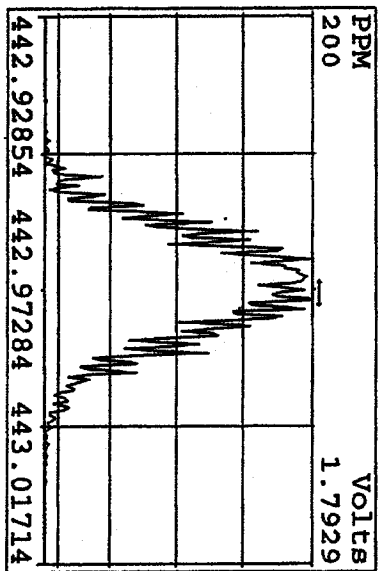
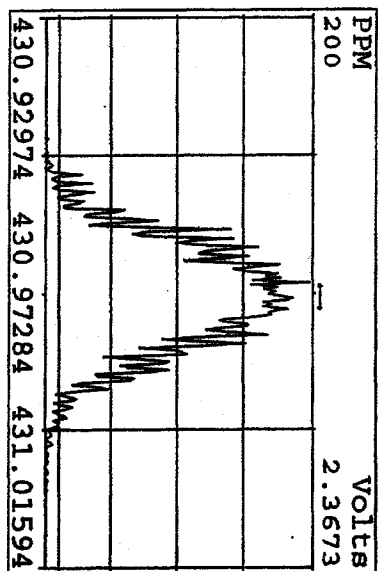
Peak Locate Examination:15-DEC-2009:10:25 File:15DE091D5
Experiment:DIOXIN Function:3 Reference:PFK



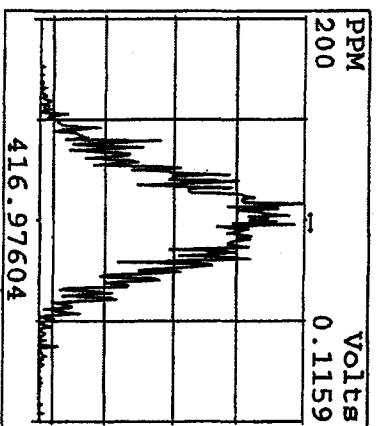
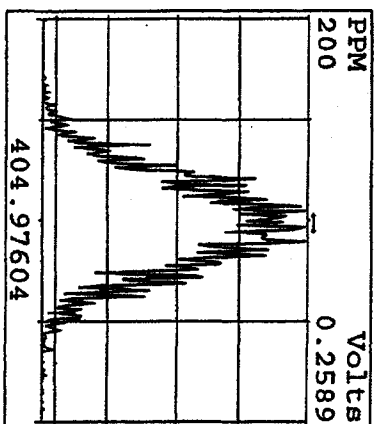
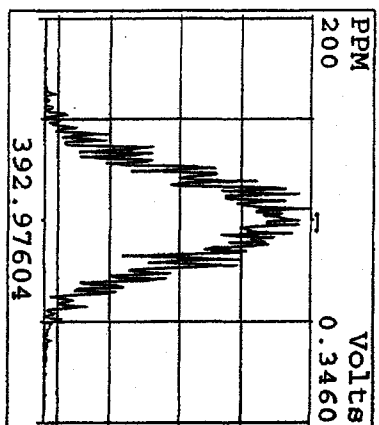
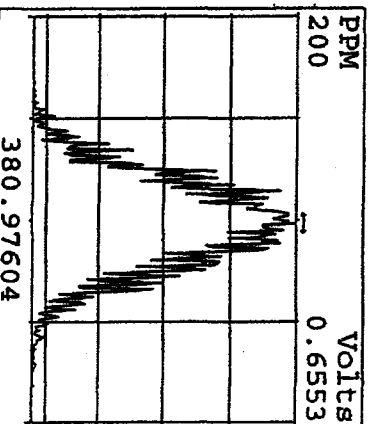
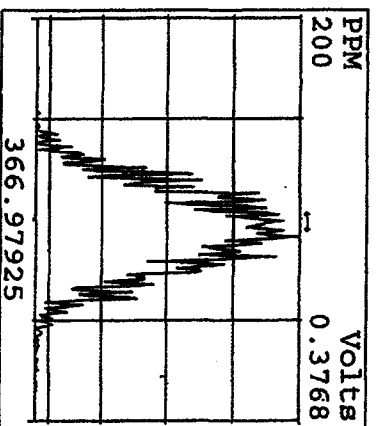
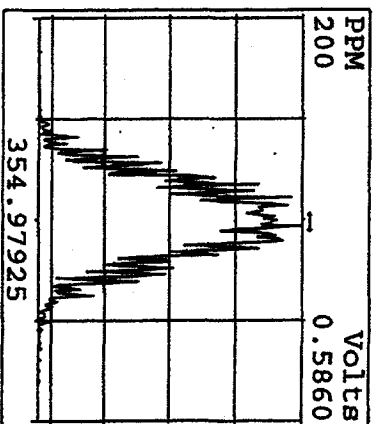
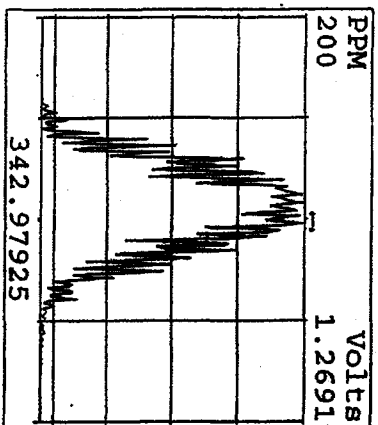
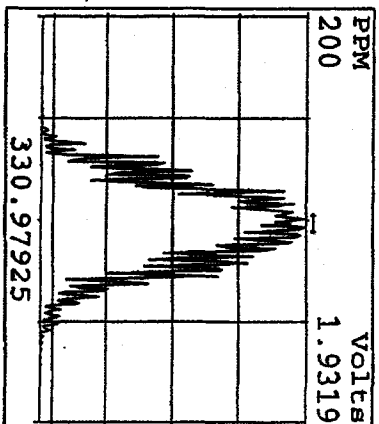
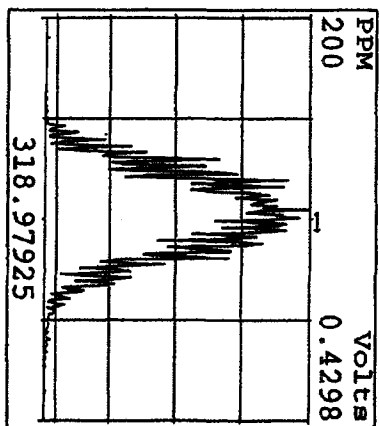
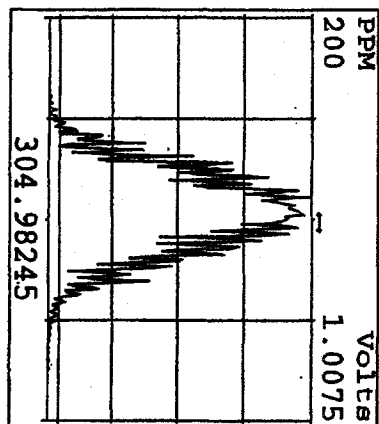
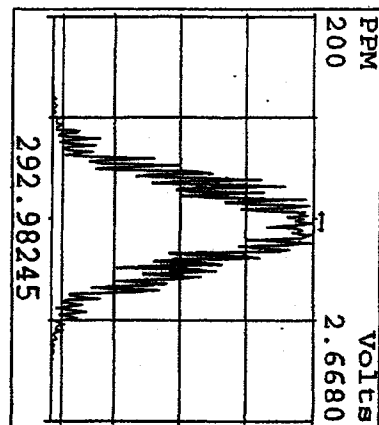
Peak Locate Examination: 15-DEC-2009: 10:26 File: 15DE091D5
 Experiment: DIOXIN Function: 4 Reference: PFK



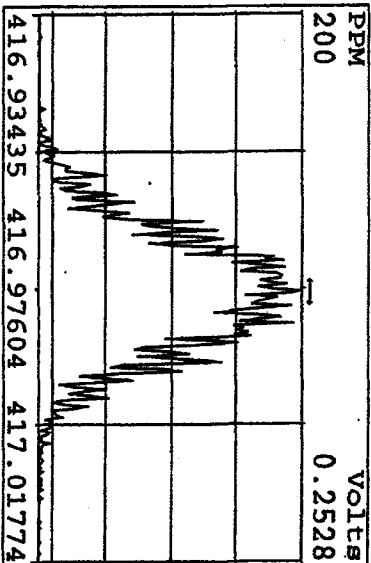
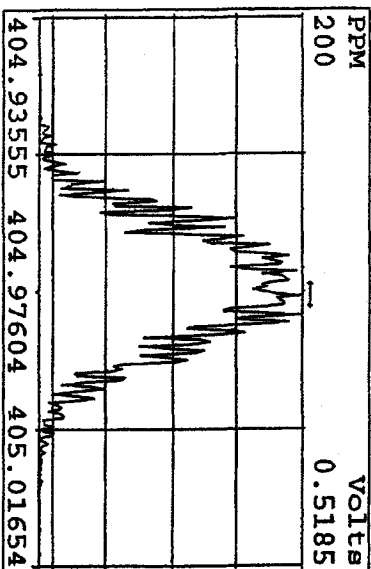
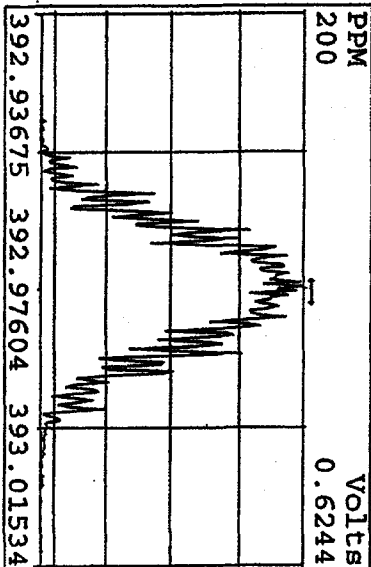
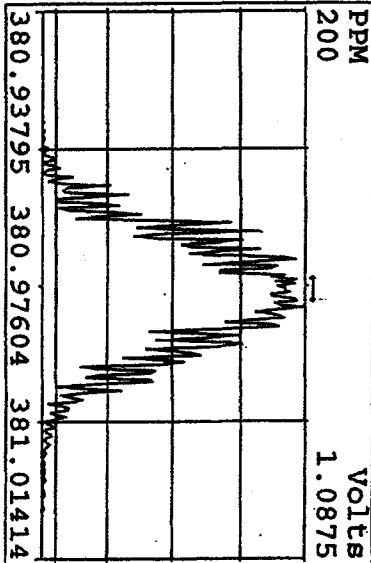
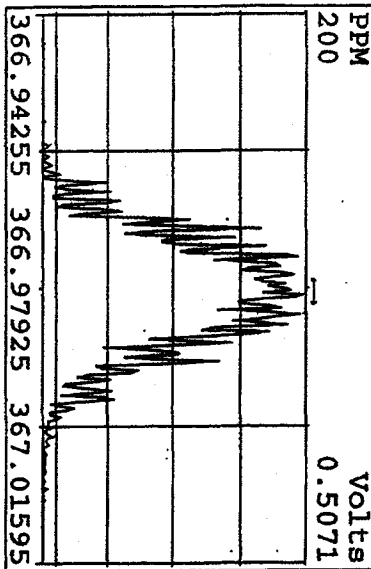
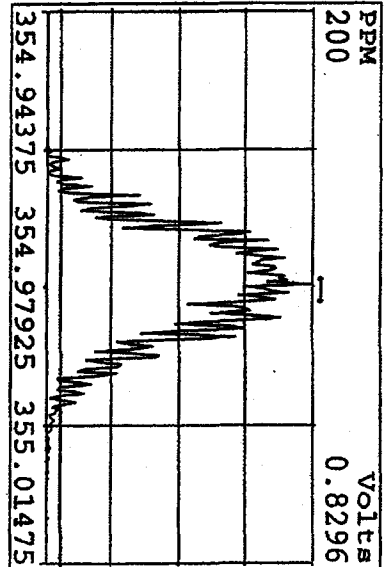
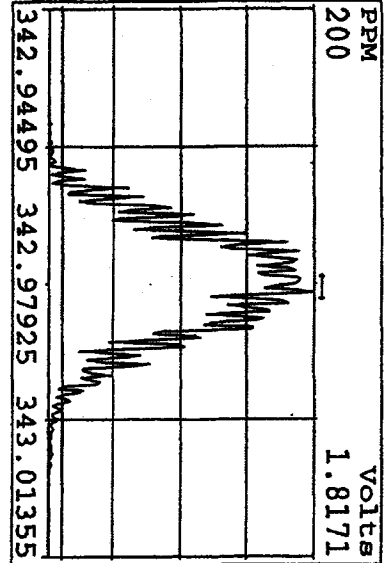
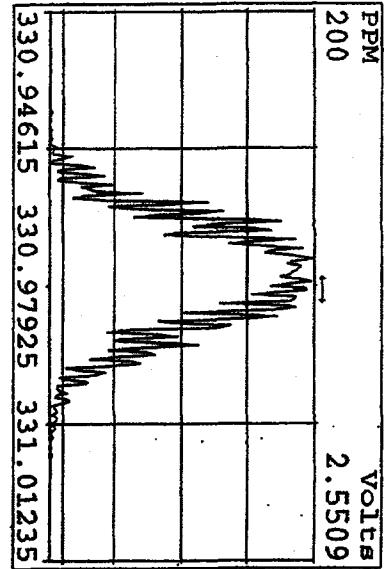
Peak Locate Examination: 15-DEC-2009: 10:27 File: 15DE091D5
 Experiment: DIOXIN Function: 5 Reference: PK



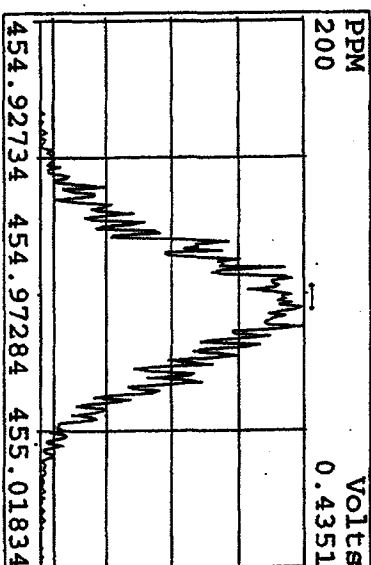
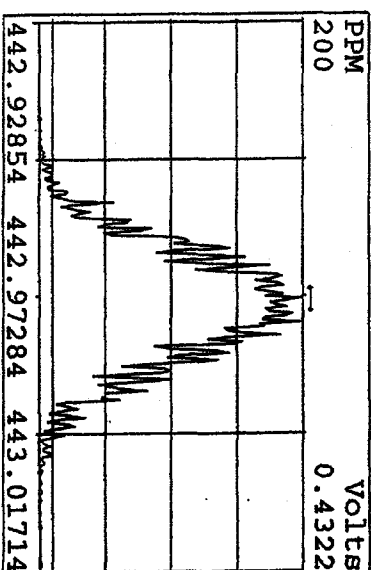
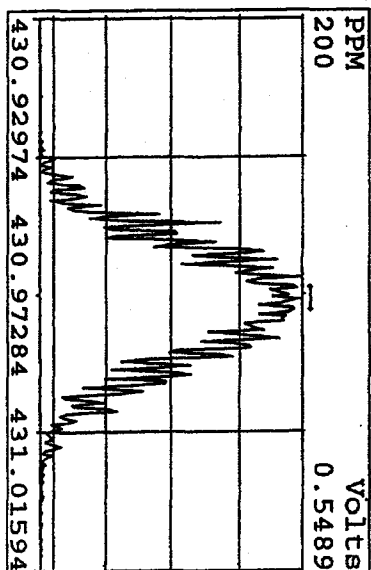
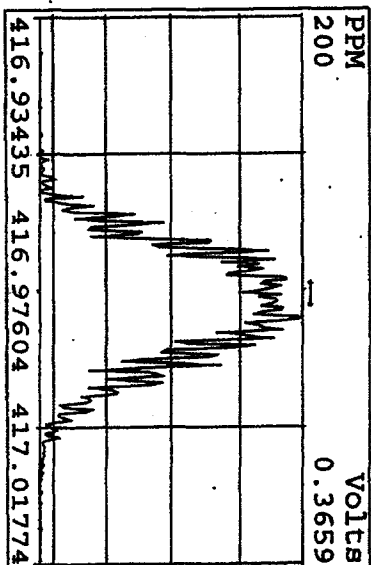
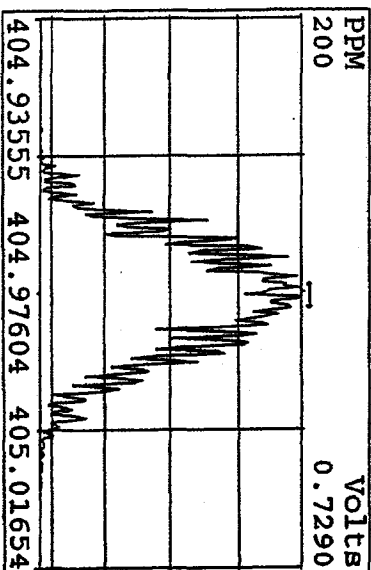
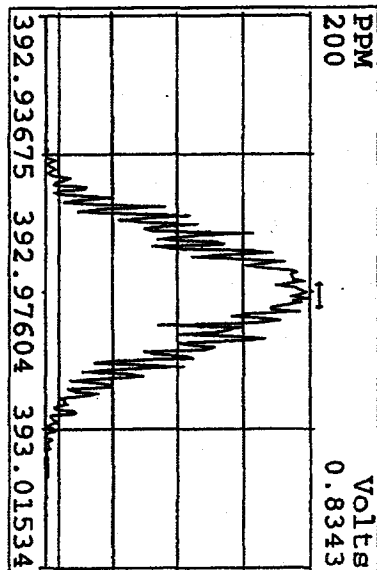
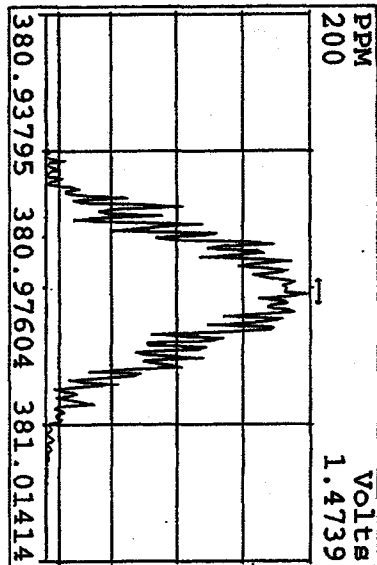
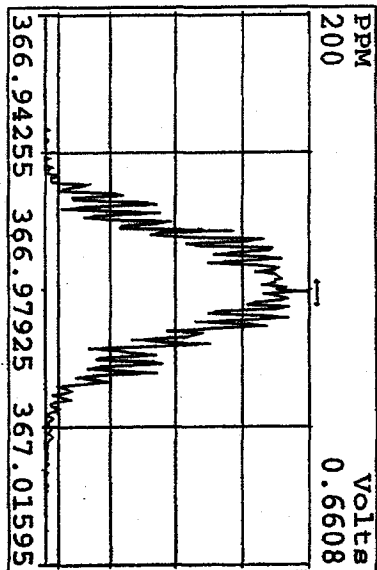
Peak Locate Examination:15-DEC-2009:20:31 File:RESCHK15DE091D5
Experiment:DIOXIN Function:1 Reference:PFK



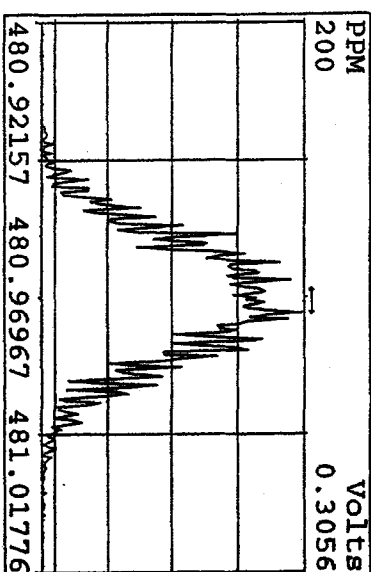
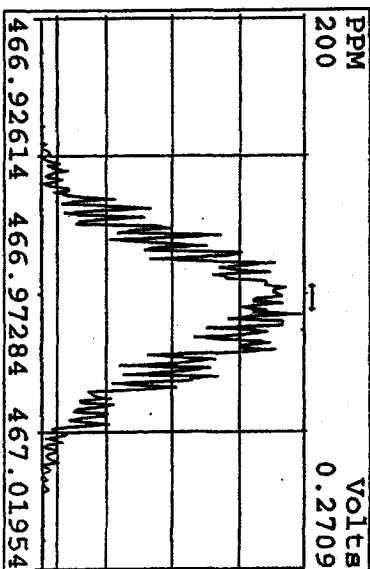
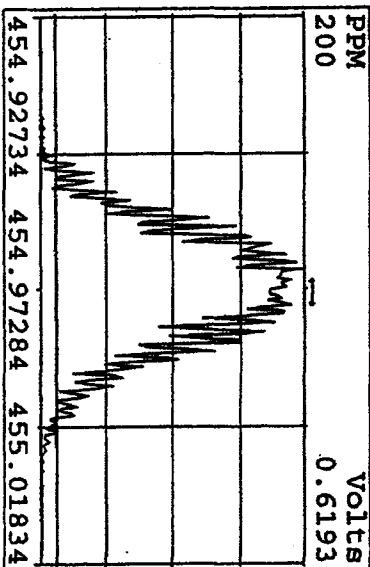
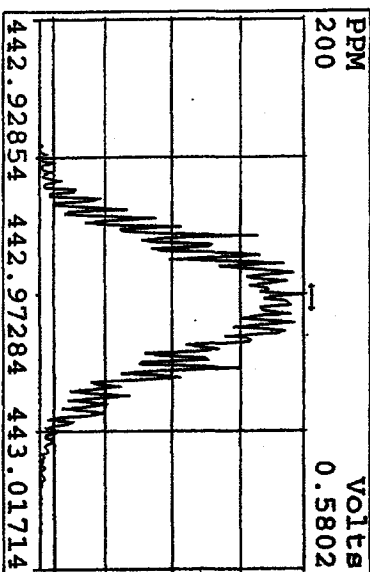
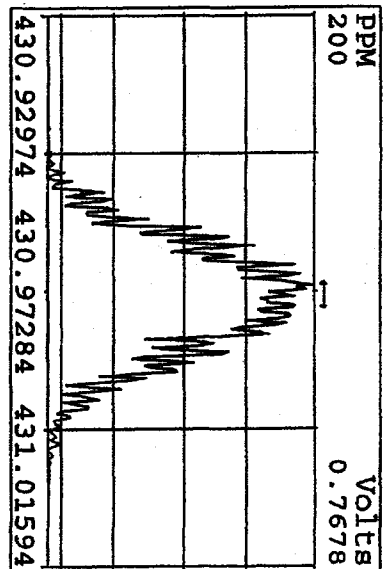
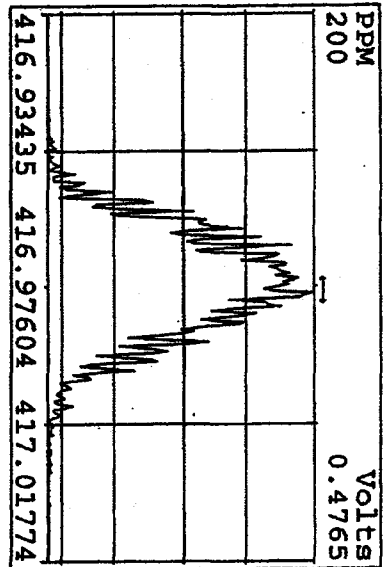
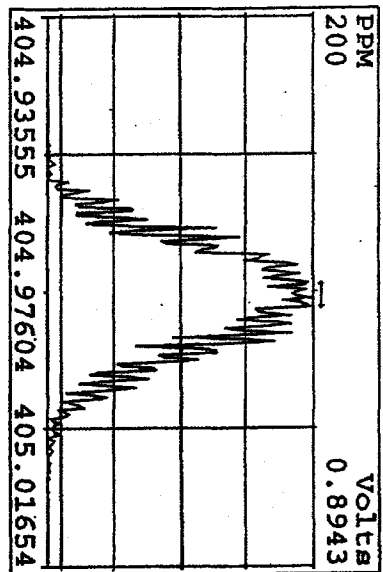
Peak Locate Examination: 15-DEC-2009: 20:34 File: RESCHK15DE091DS
 Experiment: DIOXIN Function: 2 Reference: PK



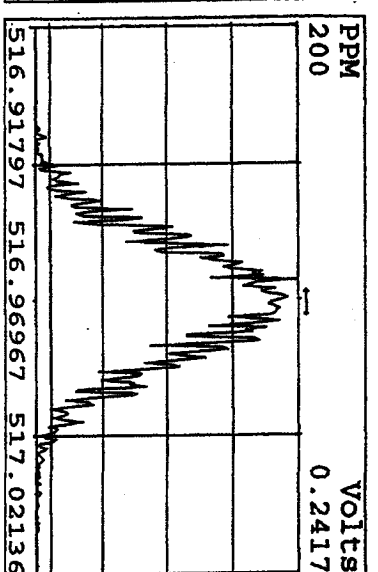
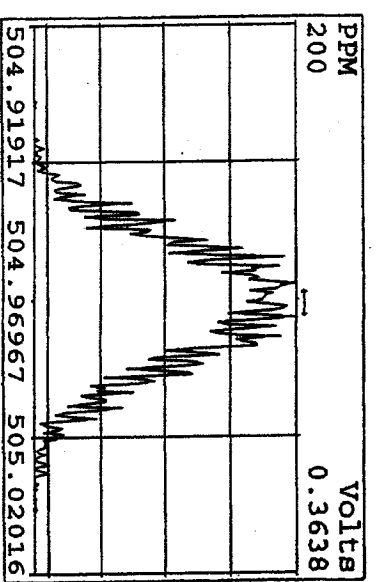
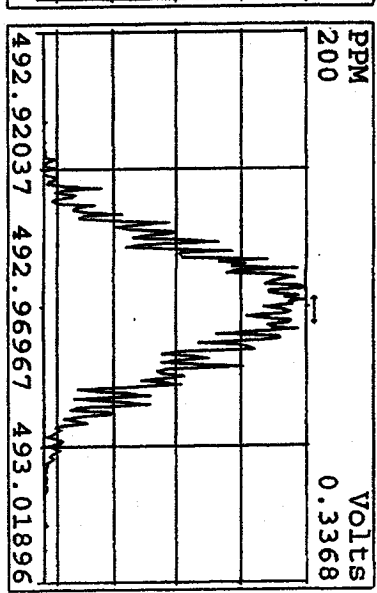
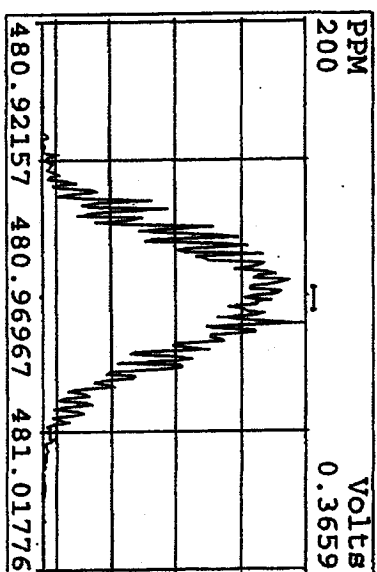
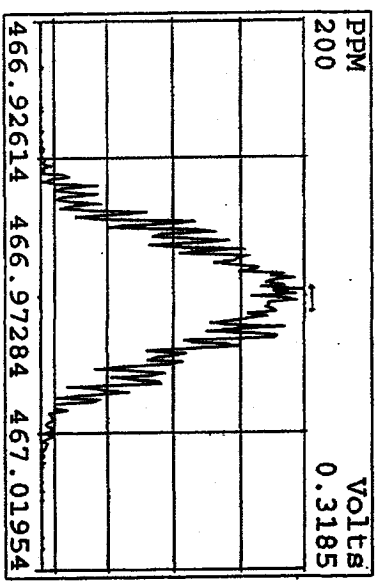
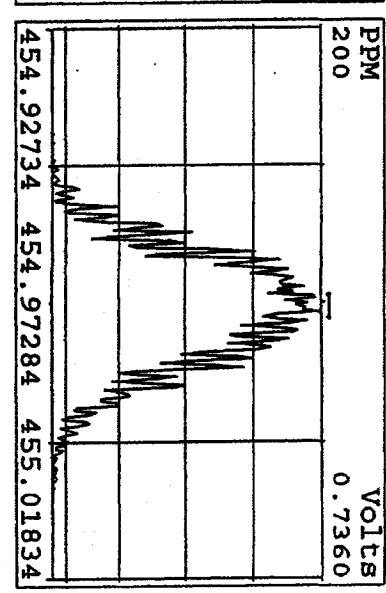
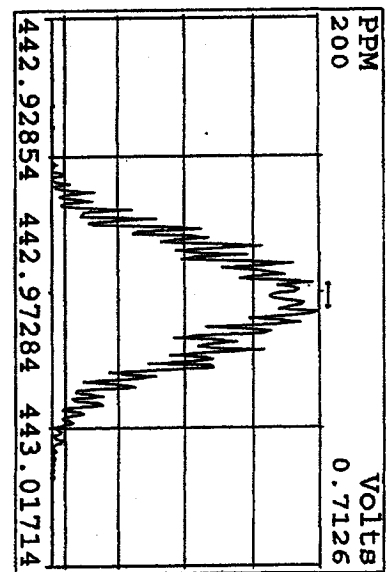
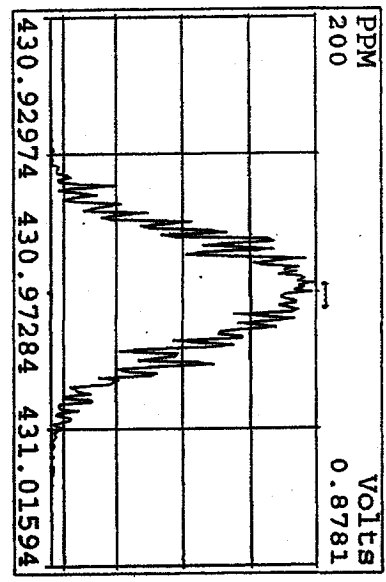
Peak Locate Examination: 15-DEC-2009: 20:36 File: RESCHK15DE091D5
 Experiment: DIOXIN Function: 3 Reference: PPK



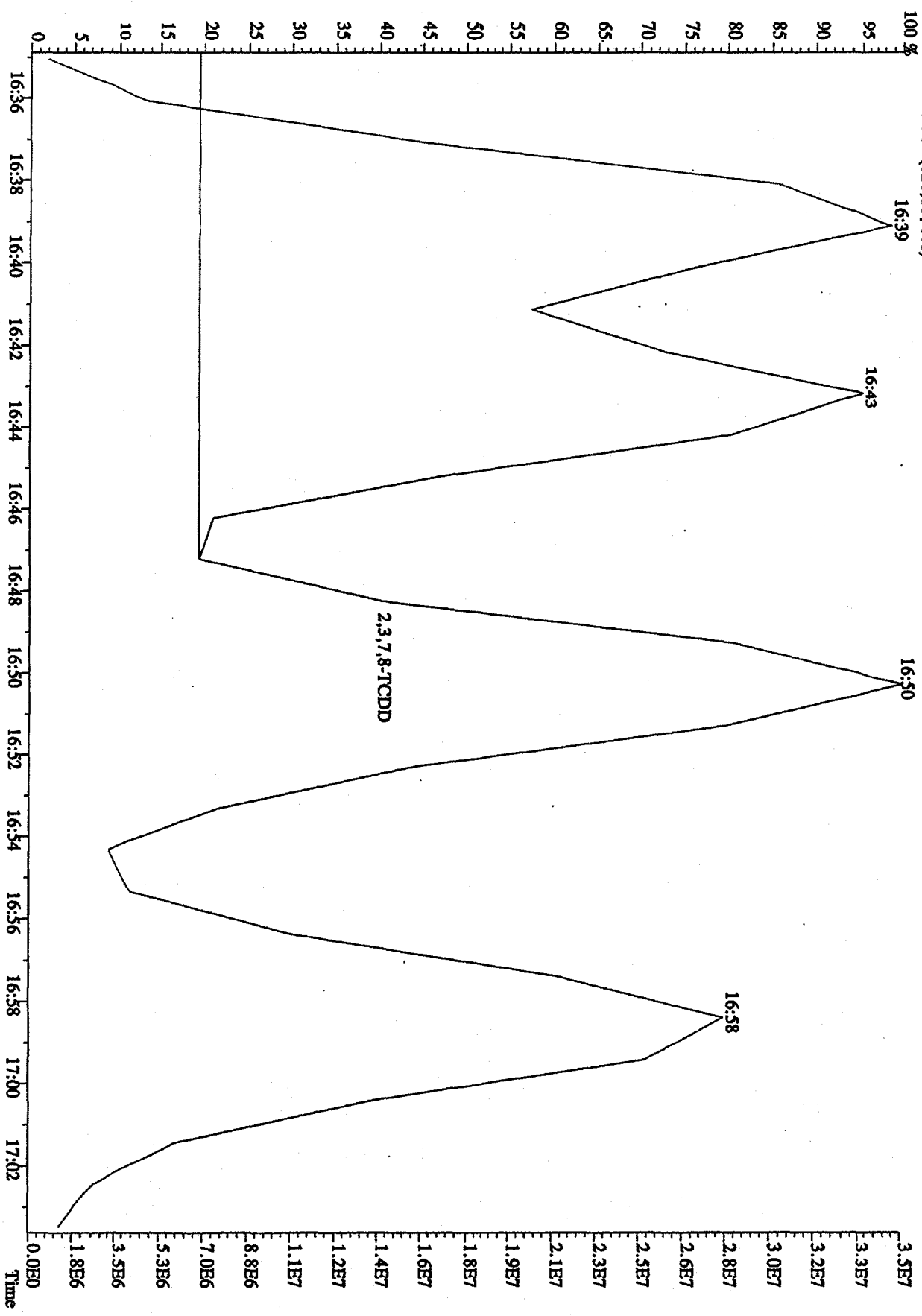
Peak Locate Examination:15-DEC-2009:20:38 File:RESCHK15DE091D5
 Experiment:DIOXIN Function:4 Reference:PFK



Peak Locate Examination: 15-DEC-2009: 20:40 File: RESCHK15DE091D5
 Experiment: DIOXIN Function: 5 Reference: PFK



File:15DE091D5 #1-355 Acq:15-DEC-2009 11:11:01 GC EI+ Voltage SIR 70SE
 Sample#2 Tent:CP1215 DB-5 CPSM 3732-04 Exp:DIOXIN
 321.8936 S:2 BSUB(128,15,-3.0)



Run text: ST1215L Sample text: ST1215L :2nd Source 3249-38
 Run #6 Filename: 15DE091D5 S: 14 I: 1 Results: 15DE091D51613
 Acquired: 15-DEC-09 19:35:13 Processed: 15-DEC-09 20:24:27
 Run: 15DE091D5 Analyte: 1613 Cal: 16131215091D5
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	241157000	0.82 y	16:39	-	90.66	-	4.5	n
13C-2,3,7,8-TCDF	389327000	0.80 y	16:12	1.65	1954.84	2.27	97.7	n
2,3,7,8-TCDF	41341700	0.77 y	16:13	1.13	188.69	1.15	-	n
Total TCDF	42039336	0.89 n	15:52	1.13	191.88	1.15	-	n
13C-2,3,7,8-TCDD	225379000	0.81 y	16:51	0.94	1980.56	5.03	99.0	n
2,3,7,8-TCDD	23964500	0.75 y	16:52	1.19	179.43	1.54	-	n
Total TCDD	24177414	0.75 y	16:52	1.19	181.02	1.54	-	n
37Cl-2,3,7,8-TCDD	61462200	1.00 y	16:52	2.77	183.74	0.45	91.9	n
13C-1,2,3,7,8-PeCDF	281149000	1.65 y	20:48	1.19	1965.21	2.32	98.3	n
1,2,3,7,8-PeCDF	88601600	1.62 y	20:49	1.33	473.07	1.71	-	n
13C-2,3,4,7,8-PeCDF	331739000	1.65 y	21:59	1.37	2003.64	2.01	100.2	n
2,3,4,7,8-PeCDF	83830700	1.61 y	22:01	1.10	461.37	1.80	-	n
Total F2 PeCDF	173758701	1.40 y	19:34	1.21	941.63	1.75	-	n
Total F1 PeCDF	129992	0.71 n	14:27	1.21	0.70	1.45	-	n
13C-1,2,3,7,8-PeCDD	149267800	1.64 y	22:38	0.63	1950.63	2.09	97.5	n
1,2,3,7,8-PeCDD	42952400	1.69 y	22:40	1.26	457.93	2.31	-	n
Total PeCDD	43110578	2.12 n	22:20	1.26	459.62	2.31	-	n
13C-1,2,3,7,8,9-HxCDD	146342100	1.32 y	31:12	-	76.10	-	-	n
13C-1,2,3,4,7,8-HxCDF	206985000	0.55 y	28:27	1.27	2225.42	7.50	111.3	n
1,2,3,4,7,8-HxCDF	58400300	1.25 y	28:28	1.28	440.08	4.21	-	n
13C-1,2,3,6,7,8-HxCDF	217743300	0.54 y	28:45	1.35	2208.72	7.08	110.4	n
1,2,3,6,7,8-HxCDF	65481100	1.28 y	28:47	1.31	460.15	4.29	-	n
13C-2,3,4,6,7,8-HxCDF	176898000	0.54 y	30:15	1.15	2099.23	8.28	105.0	n
2,3,4,6,7,8-HxCDF	56871800	1.26 y	30:17	1.43	448.21	3.45	-	n
13C-1,2,3,7,8,9-HxCDF	156973300	0.52 y	31:27	1.06	2033.32	9.04	101.7	n
1,2,3,7,8,9-HxCDF	50922200	1.25 y	31:28	1.39	465.61	3.43	-	n
Total HxCDF	231889372	1.25 y	28:28	1.35	1815.72	3.87	-	n
13C-1,2,3,4,7,8-HxCDD	139590500	1.34 y	30:33	0.87	2189.05	2.47	109.5	n
1,2,3,4,7,8-HxCDD	34015200	1.31 y	30:35	1.05	465.17	2.92	-	n
13C-1,2,3,6,7,8-HxCDD	120406600	1.32 y	30:43	0.72	2278.03	2.98	113.9	n
1,2,3,6,7,8-HxCDD	37714300	1.30 y	30:44	1.39	450.35	2.68	-	n
1,2,3,7,8,9-HxCDD	35553500	1.31 y	31:13	1.33	411.21	2.53	-	n
Total HxCDD	107283000	1.31 y	30:35	1.25	1326.73	2.71	-	n
13C-1,2,3,4,6,7,8-HpCDF	158768500	0.44 y	33:18	1.05	2067.07	17.39	103.4	n
1,2,3,4,6,7,8-HpCDF	57878600	1.06 y	33:18	1.55	470.76	1.95	-	n
13C-1,2,3,4,7,8,9-HpCDF	152078300	0.42 y	34:30	1.03	2025.36	17.79	101.3	n
1,2,3,4,7,8,9-HpCDF	46051600	1.08 y	34:31	1.34	452.09	2.70	-	n
Total HpCDF	104259389	1.06 y	33:18	1.45	925.77	2.29	-	n

13C-1,2,3,4,6,7,8-HpCDD	109023500	1.08	y	34:10	0.76	1964.78	7.88	98.2	n
1,2,3,4,6,7,8-HpCDD	31803100	1.10	y	34:11	1.28	456.84	2.26	-	n
Total HpCDD	31966107	0.66	n	33:35	1.28	459.19	2.26	-	n
13C-OCDD	202331800	0.91	y	36:47	0.72	3859.59	17.37	96.5	n
OCDF	73455800	0.91	y	36:53	1.58	920.55	3.62	-	n
OCDD	52688800	0.89	y	36:47	1.13	925.05	3.75	-	n

Initial Calibration Checklist Dioxin Methods

ICAL ID (DB225, DB225AIR) 1021095D2

Method ID 8290, 1613B, Tetras, 23, 0023A, TO9

Date Scanned 10/22/09 ^{11/09/09}

Column ID DB225

Instrument ID 5D2

STD ID's ST1021A, B, C, D, E

STD Solution (G9DxN) 236, 237, 123, 311, 240

GC Program DB225

Multiplier Setting 820 kV

Analyzed By KAS

Date Analyzed 10/21/09, 10/22/09

Prepared By KSS

Date Prepared 10/22/09

Reviewed By M.G.

Date Reviewed 10/22/09

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 RT 13C-1,2,3,4-TCDD = 14:32

*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: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46
37Cl-2,3,7,8-TCDD	2.705	0.282	10.4 %	2.28	2.70	2.80	3.06	2.68

Run #1 Filename 21OC095D2 S: 3 I: 1
Acquired: 21-OCT-09 22:40:02 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2
Comments:

Sample text: ST1021A :CS1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	159777300	0.75 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	283074000	0.83 y	15:41	1.772	100.00	n
2,3,7,8-TCDF	1837089	0.82 y	15:42	1.298	0.50	n
13C-2,3,7,8-TCDD	145710700	0.76 y	14:17	0.912	100.00	n
2,3,7,8-TCDD	1060714	0.85 y	14:19	1.456	0.50	n
37C1-2,3,7,8-TCDD	1820036	1.00 y	14:19	2.278	0.50	n

Run #2 Filename 21OC095D2 S: 4 I: 1
Acquired: 21-OCT-09 23:17:05 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021B :CS2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	146762200	0.80 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	295537000	0.84 y	15:40	2.014	100.00	n
2,3,7,8-TCDF	7158100	0.67 y	15:42	1.211	2.00	n
13C-2,3,7,8-TCDD	139584500	0.75 y	14:17	0.951	100.00	n
2,3,7,8-TCDD	4525160	0.83 y	14:19	1.621	2.00	n
37Cl-2,3,7,8-TCDD	7927020	1.00 y	14:18	2.701	2.00	n

Run #3 Filename 21OC095D2 S: 5 I: 1
 Acquired: 21-OCT-09 23:54:06 Processed: 22-OCT-09 10:13:19
 Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2
 Comments:

Sample text: ST1021C :CS3 09DXN123

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	158503900	0.74 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	315863000	0.85 y	15:40	1.993	100.00	n
2,3,7,8-TCDF	37100400	0.73 y	15:41	1.175	10.00	n
13C-2,3,7,8-TCDD	156056100	0.74 y	14:17	0.985	100.00	n
2,3,7,8-TCDD	23336700	0.86 y	14:18	1.495	10.00	n
37Cl-2,3,7,8-TCDD	44361400	1.00 y	14:18	2.799	10.00	n

Run #4 Filename 21OC095D2 S: 6 I: 1
Acquired: 22-OCT-09 00:31:07 Processed: 22-OCT-09 10:13:20
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2
Comments:

Sample text: ST1021D :CS4 09DXN311

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	134818500	0.80 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	282970000	0.86 y	15:40	2.099	100.00	n
2,3,7,8-TCDF	125144200	0.67 y	15:41	1.106	40.00	n
13C-2,3,7,8-TCDD	140240600	0.79 y	14:17	1.040	100.00	n
2,3,7,8-TCDD	84166000	0.88 y	14:18	1.500	40.00	n
37Cl-2,3,7,8-TCDD	165061800	1.00 y	14:17	3.061	40.00	n

Run #5 Filename 21OC095D2 S: 7 I: 1
Acquired: 22-OCT-09 01:08:10 Processed: 22-OCT-09 10:13:20
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021E :CS5 09DXN240

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	160493400	0.77 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	321050000	0.84 y	15:39	2.000	100.00	n
2,3,7,8-TCDF	712667000	0.71 y	15:40	1.110	200.00	n
13C-2,3,7,8-TCDD	155146500	0.74 y	14:17	0.967	100.00	n
2,3,7,8-TCDD	452444000	0.87 y	14:18	1.458	200.00	n
37C1-2,3,7,8-TCDD	861636000	1.00 y	14:18	2.684	200.00	n

Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	21OC095D2										
				S3	S4	S5	S6	S7	RRF1	RRF2	RRF3	RRF4	RRF5	
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00	1.30	1.21	1.17	1.11	1.11	1.11
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11	1.30	1.21	1.17	1.11	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97	1.46	1.62	1.50	1.50	1.46	1.46
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46	1.46	1.62	1.50	1.50	1.46	1.46
37Cl-2,3,7,8-TCDD	2.780	0.168	6.05 %	2.50	2.84	2.84	2.94	2.78	2.50	2.84	2.84	2.94	2.78	2.78

Run #1 Filename 21OC095D2 S: 3 I: 1
Acquired: 21-OCT-09 22:40:02 Processed: 22-OCT-09 11:29:34
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

Comments:

Sample text: ST1021A :CS1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	159777300	0.75 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	283074000	0.83 y	15:41	1.772	100.00	n
2,3,7,8-TCDF	1837089	0.82 y	15:42	1.298	0.50	n
13C-2,3,7,8-TCDD	145710700	0.76 y	14:17	0.912	100.00	n
2,3,7,8-TCDD	1060714	0.85 y	14:19	1.456	0.50	n
37Cl-2,3,7,8-TCDD	1820036	1.00 y	14:19	2.498	0.50	n

Run #2 Filename 210C095D2 S: 4 I: 1
Acquired: 21-OCT-09 23:17:05 Processed: 22-OCT-09 11:29:35
Run: 210C095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

Comments:

Sample text: ST1021B :CS2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	146762200	0.80 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	295537000	0.84 y	15:40	2.014	100.00	n
2,3,7,8-TCDF	7158100	0.67 y	15:42	1.211	2.00	n
13C-2,3,7,8-TCDD	139584500	0.75 y	14:17	0.951	100.00	n
2,3,7,8-TCDD	4525160	0.83 y	14:19	1.621	2.00	n
37Cl-2,3,7,8-TCDD	7927020	1.00 y	14:18	2.840	2.00	n

Run #3 Filename 21OC095D2 S: 5 I: 1
Acquired: 21-OCT-09 23:54:06 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:
Sample text: ST1021C :CS3 09DXN123

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	158503900	0.74 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	315863000	0.85 y	15:40	1.993	100.00	n
2,3,7,8-TCDF	37100400	0.73 y	15:41	1.175	10.00	n
13C-2,3,7,8-TCDD	156056100	0.74 y	14:17	0.985	100.00	n
2,3,7,8-TCDD	23336700	0.86 y	14:18	1.495	10.00	n
37Cl-2,3,7,8-TCDD	44361400	1.00 y	14:18	2.843	10.00	n

Run #4 Filename 21OC095D2 S: 6 I: 1
Acquired: 22-OCT-09 00:31:07 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:
Sample text: ST1021D :CS4 09DXN311

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	134818500	0.80 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	282970000	0.86 y	15:40	2.099	100.00	n
2,3,7,8-TCDF	125144200	0.67 y	15:41	1.106	40.00	n
13C-2,3,7,8-TCDD	140240600	0.79 y	14:17	1.040	100.00	n
2,3,7,8-TCDD	84166000	0.88 y	14:18	1.500	40.00	n
37Cl-2,3,7,8-TCDD	165061800	1.00 y	14:17	2.942	40.00	n

Run #5 Filename 21OC095D2 S: 7 I: 1
Acquired: 22-OCT-09 01:08:10 Processed: 22-OCT-09 11:29:36
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

Comments:

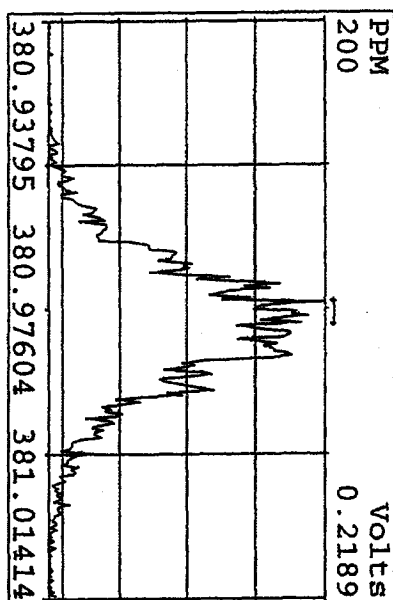
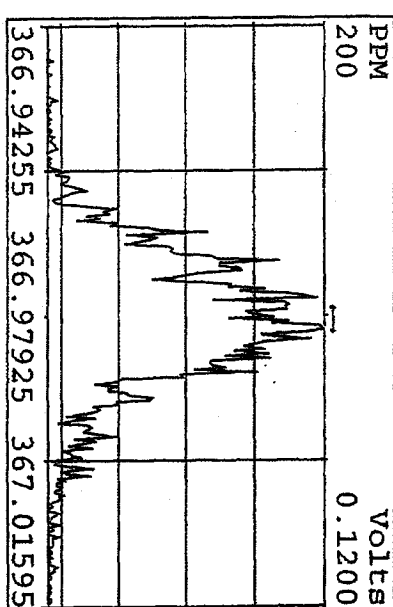
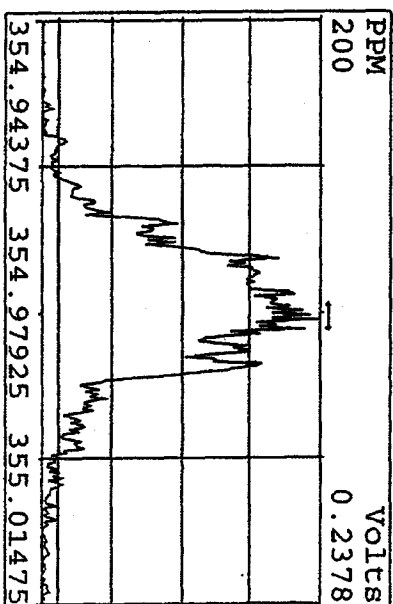
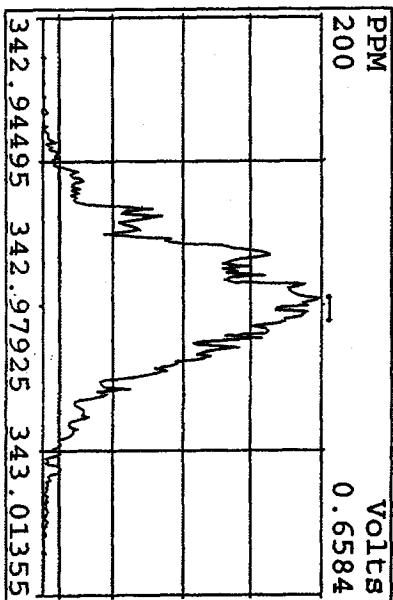
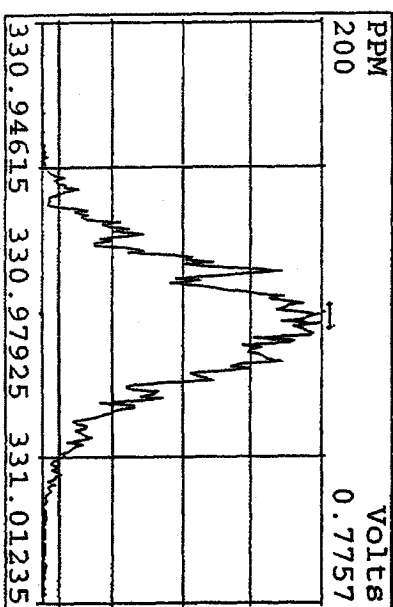
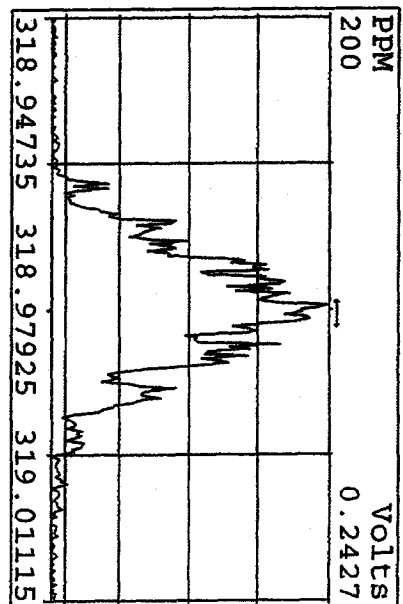
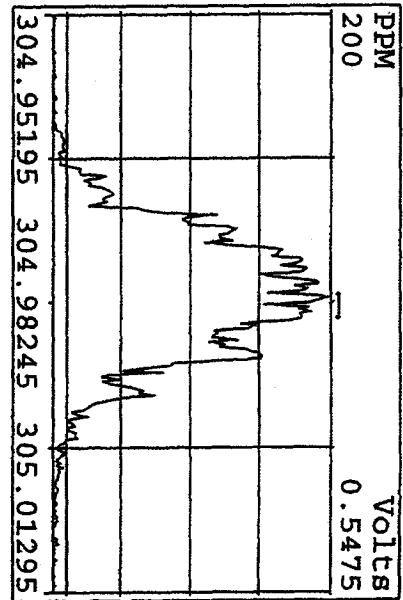
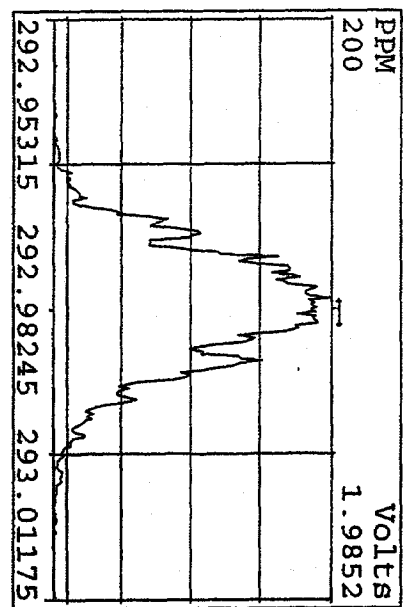
Sample text: ST1021E :CS5 09DXN240

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	160493400	0.77 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	321050000	0.84 y	15:39	2.000	100.00	n
2,3,7,8-TCDF	712667000	0.71 y	15:40	1.110	200.00	n
13C-2,3,7,8-TCDD	155146500	0.74 y	14:17	0.967	100.00	n
2,3,7,8-TCDD	452444000	0.87 y	14:18	1.458	200.00	n
37Cl-2,3,7,8-TCDD	861636000	1.00 y	14:18	2.777	200.00	n

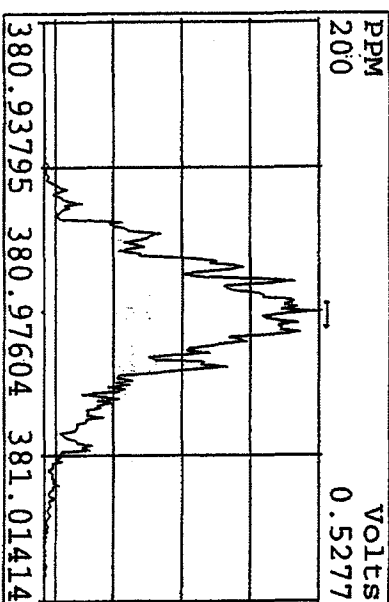
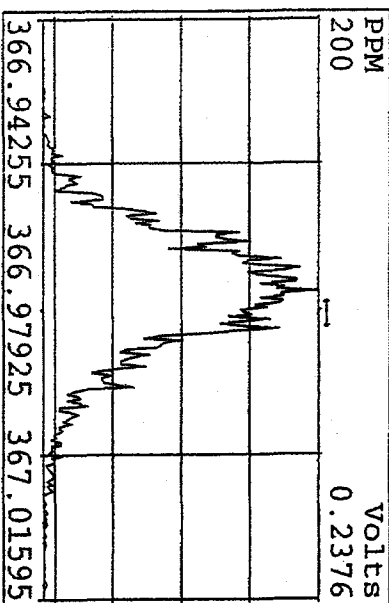
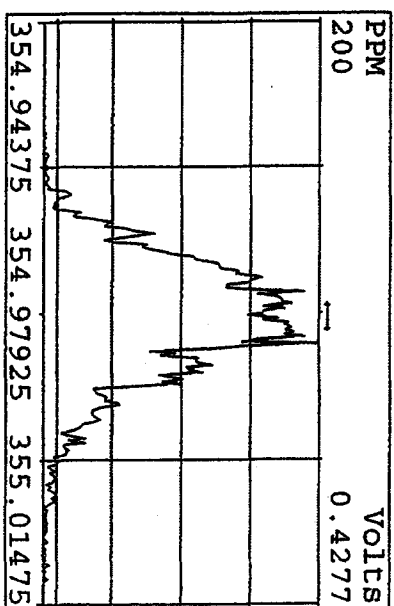
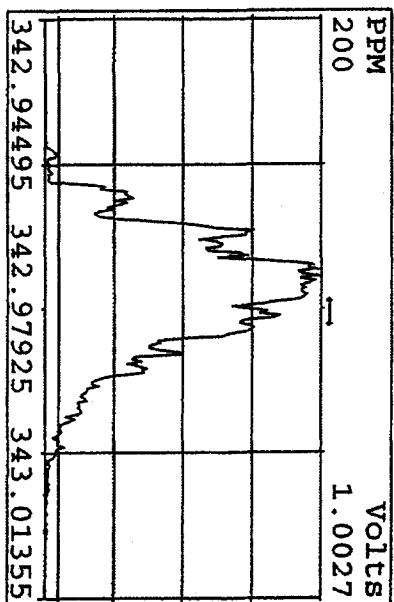
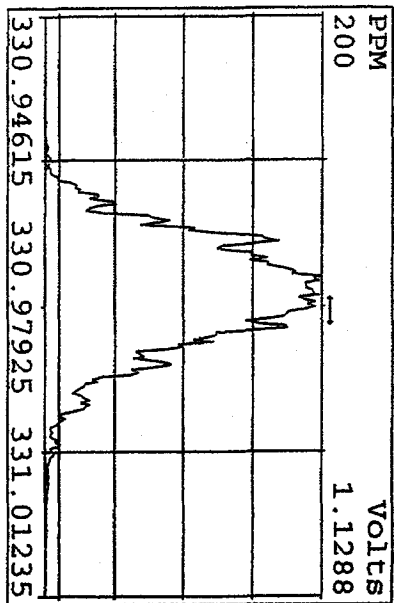
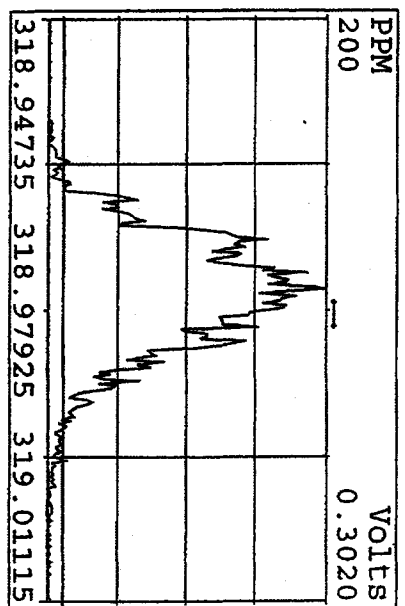
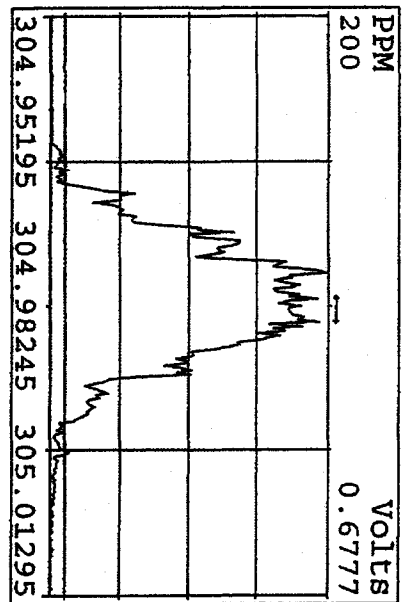
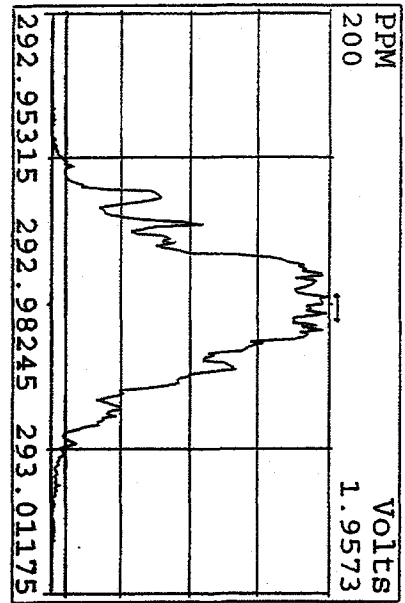
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
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21OC095D2	3	ST1021A	CS1 09DXN236				1.000	
21OC095D2	4	ST1021B	CS2 09DXN237				1.000	
21OC095D2	5	ST1021C	CS3 09DXN123				1.000	
21OC095D2	6	ST1021D	CS4 09DXN311				1.000	
21OC095D2	7	ST1021E	CS5 09DXN240				1.000	
21OC095D2	8	ST1021F	2nd Source 09DXN300				1.000	
21OC095D2	9	SB1021	C-14 SOLVENT BLANK				1.000	
21OC095D2	10	CP1021A	DB-225 CPSM 3732-01				1.000	
21OC095D2	11	ST1021G	CS3 09DXN123				1.000	
21OC095D2	12	SB1021A	C-14 SOLVENT BLANK				1.000	
21OC095D2	13	LL3C6-1-AC	G9J06 0234-1	20	8290/WATER	79	0.576	L
21OC095D2	14	LL3DH-1-AC	G9J06 0234-2	20	8290/WATER		0.564	L
21OC095D2	15	LLC4P-1-AC	G9I23 0350-1	20	8290/SOLID	84	10.170	g
21OC095D2	16	LLC4R-1-AC	G9I23 0350-3	20	8290/SOLID		10.010	g
21OC095D2	17	LLC4T-1-AC	G9I23 0350-4	20	8290/SOLID		10.020	g
21OC095D2	18	SB1021A	C-14 SOLVENT BLANK				1.000	
21OC095D2	19	ST1021H	CS3 09DXN123				1.000	
21OC095D2	20						1.000	
21OC095D2	21						1.000	
21OC095D2	22						1.000	
21OC095D2	23		KAS/KSS 9-21-09				1.000	
21OC095D2	24						1.000	
21OC095D2	25						1.000	
21OC095D2	26						1.000	

logfile vid
10/22/09
KSS

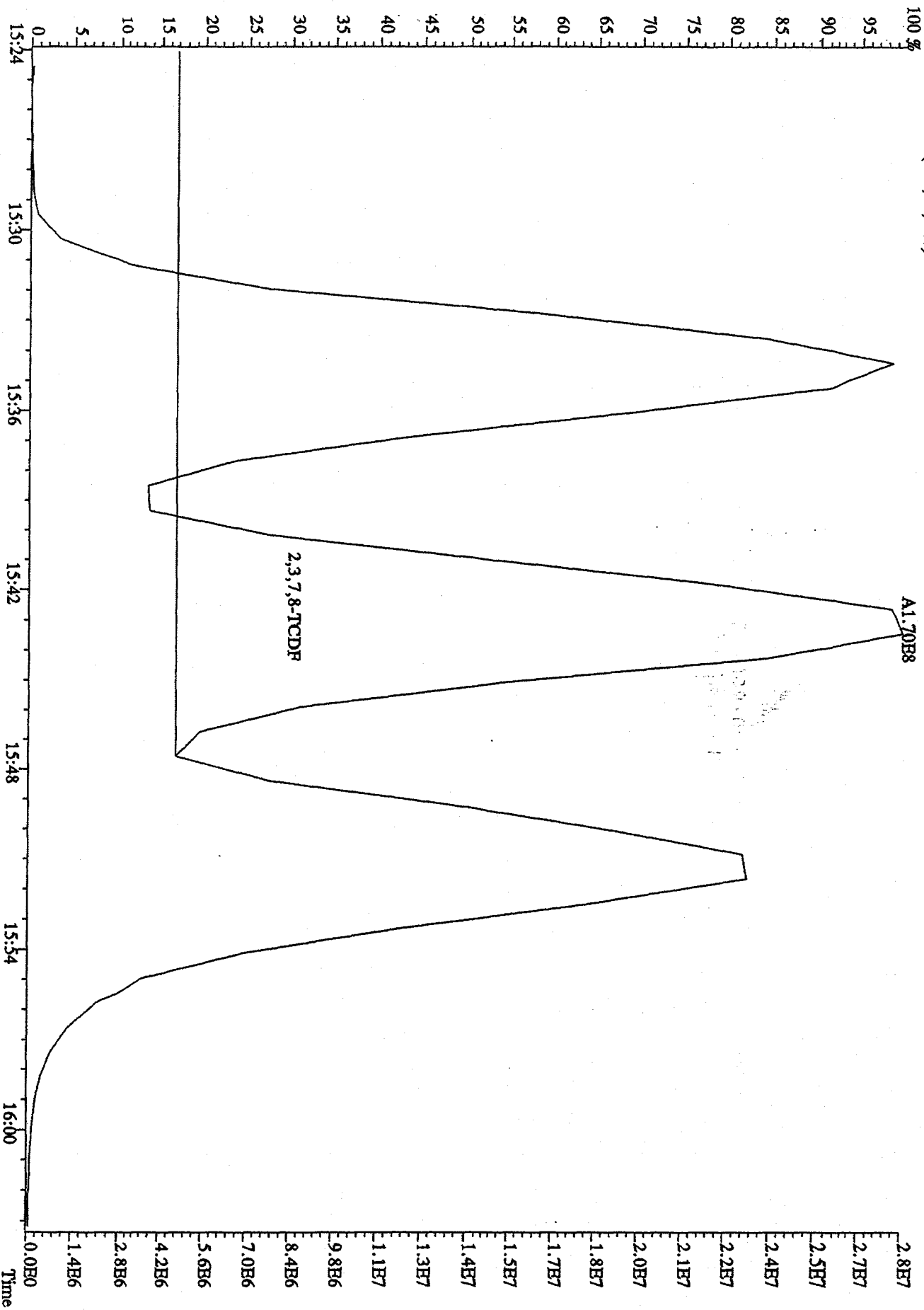
Peak Locate Examination: 21-OCT-2009: 21:25 File: 21OC095D2
 Experiment: DB225 Function: 1 Reference: PFK



Peak Locate Examination: 22-OCT-2009:09:19 File: 210C095D2ENDRES
 Experiment: DB225 Function: 1 Reference: PRK



File: 21OCC09SD2 #1-1242 Acq: 21-OCT-2009 22:03:00 GC FI + Voltage SIR 70SE
Sample#2 Text: CP1021 :DB-225 CPSM 3732-01 Exp: DB225
303.9016 S:2 BSUB(128,15,-3,0)



Run text: ST1021F Sample text: ST1021F :2nd Source 09DXN300
Run #15 Filename: 21OC095D2 S: 8 I: 1 Results: 21OC095D2DB225
Acquired: 22-OCT-09 01:45:11 Processed: 22-OCT-09 12:39:59
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2
Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	136613028	0.82 y	14:31	-	89.83	-	-	n
13C-2,3,7,8-TCDF	277440664	0.86 y	15:39	1.98	2056.05	12.22	102.8	n
2,3,7,8-TCDF	30151783	0.72 y	15:40	1.18	184.23	3.03	-	n
13C-2,3,7,8-TCDD	128036352	0.75 y	14:16	0.97	1930.61	14.32	96.5	n
2,3,7,8-TCDD	18883674	0.87 y	14:17	1.51	195.85	5.01	-	n
37Cl-2,3,7,8-TCDD	35891704	1.00 y	14:17	2.70	194.28	4.88	97.1	n

Daily Calibration Checklist Dioxin Methods

Method ID 8290

Associated ICAL 82901215091D5

Column ID DB-5

Instrument ID 1D5

STD ID ST1217, ST1217A

STD Solution 09DXN384

Analyzed by MG

Date Analyzed 12-17-09

Std. Pkg. By am

Date Std. Pkg. Assembled 12-17-09

Std. Pkg. Reviewed By M.G.

Date Std. Pkg. Reviewed 12/18/09

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?*	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS: _____

* Method 8290/TO9/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
 Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
 Method 23: See Method 23 Daily Standard Criteria, Table 5.
 Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,
 ** Method 23/0023A CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
 Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1217 File text: ST1217 :CS3 09DXN384
 Run #6 Filename 17DE091D5 S: 1 I: 1
 Acquired: 17-DEC-09 08:47:38 Processed: 17-DEC-09 13:51:47
 Run: 17DE091D5 Analyte: 8290 Cal: 82901215091D5 Results: 17DE091D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	354058000	0.81 y	16:38	-	100.00	-	n
13C-2,3,7,8-TCDF	575205000	0.80 y	16:12	1.62	100.00	-1.6	n
2,3,7,8-TCDF	69036500	0.78 y	16:13	1.20	10.00	6.6	n
Total TCDF	69397553	1.26 n	15:51	1.20	10.00	6.6	n
13C-2,3,7,8-TCDD	326697000	0.82 y	16:49	0.92	100.00	-2.2	n
2,3,7,8-TCDD	39136000	0.77 y	16:51	1.20	10.00	1.1	n
Total TCDD	39136000	0.77 y	16:51	1.20	10.00	1.1	n
37C1-2,3,7,8-TCDD	88040600	1.00 y	16:50	2.49	10.00	-10.4	n
13C-1,2,3,7,8-PeCDF	438921000	1.58 y	20:44	1.24	100.00	4.5	n
1,2,3,7,8-PeCDF	295840000	1.61 y	20:46	1.35	50.00	1.2	n
2,3,4,7,8-PeCDF	281408000	1.60 y	21:57	1.28	50.00	1.2	n
Total F2 PeCDF	580928304	1.33 y	19:32	1.32	100.00	1.2	n
Total F1 PeCDF	148214	0.60 n	14:27	1.32	100.00	1.2	n
13C-1,2,3,7,8-PeCDD	248636400	1.66 y	22:34	0.70	100.00	10.7	n
1,2,3,7,8-PeCDD	162331600	1.63 y	22:36	1.31	50.00	3.9	n
Total PeCDD	162545443	2.96 n	22:13	1.31	50.00	3.9	n
13C-1,2,3,7,8,9-HxCDD	266449000	1.31 y	31:08	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	344232000	0.54 y	28:20	1.29	100.00	1.6	n
1,2,3,4,7,8-HxCDF	233786000	1.26 y	28:21	1.36	50.00	5.9	n
1,2,3,6,7,8-HxCDF	249779000	1.27 y	28:39	1.45	50.00	4.7	n
2,3,4,6,7,8-HxCDF	230659000	1.25 y	30:12	1.34	50.00	2.9	n
1,2,3,7,8,9-HxCDF	221687200	1.26 y	31:25	1.29	50.00	11.2	n
Total HxCDF	936748792	1.26 y	28:21	1.36	200.00	6.0	n
13C-1,2,3,6,7,8-HxCDD	186621800	1.31 y	30:38	0.70	100.00	-3.0	n
1,2,3,4,7,8-HxCDD	132946700	1.36 y	30:30	1.42	50.00	12.8	n
1,2,3,6,7,8-HxCDD	143658300	1.25 y	30:40	1.54	50.00	10.7	n
1,2,3,7,8,9-HxCDD	160092800	1.30 y	31:09	1.72	50.00	17.0	n
Total HxCDD	436697800	1.36 y	30:30	1.56	150.00	13.6	n
13C-1,2,3,4,6,7,8-HpCDF	313141600	0.44 y	33:16	1.18	100.00	12.0	n
1,2,3,4,6,7,8-HpCDF	260378000	1.05 y	33:16	1.66	50.00	7.4	n
1,2,3,4,7,8,9-HpCDF	233428000	1.07 y	34:28	1.49	50.00	14.1	n
Total HpCDF	495207553	1.05 y	33:16	1.58	100.00	10.4	n
13C-1,2,3,4,6,7,8-HpCDD	241669000	1.08 y	34:08	0.91	100.00	19.6	n
1,2,3,4,6,7,8-HpCDD	160759100	1.08 y	34:09	1.33	50.00	4.2	n
Total HpCDD	161166806	0.80 n	33:33	1.33	50.00	4.2	n
13C-OCDD	458119000	0.91 y	36:44	0.86	200.00	20.0	n
OCDF	384768000	0.92 y	36:50	1.68	100.00	6.5	n
OCDD	269371000	0.89 y	36:45	1.18	100.00	4.4	n

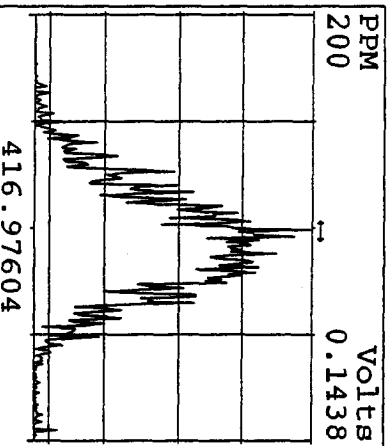
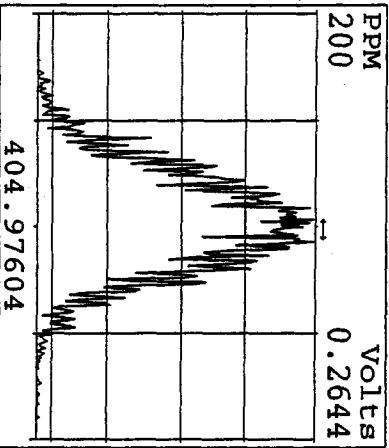
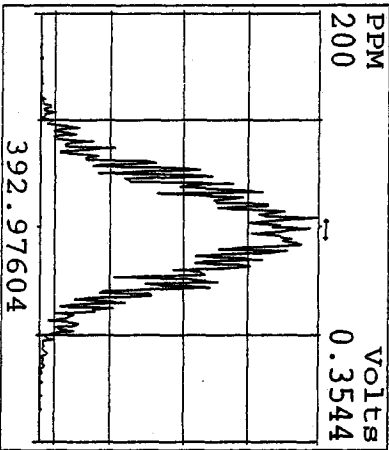
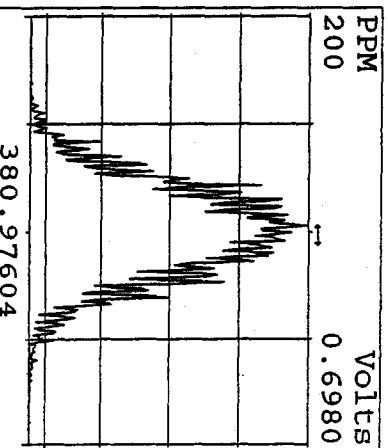
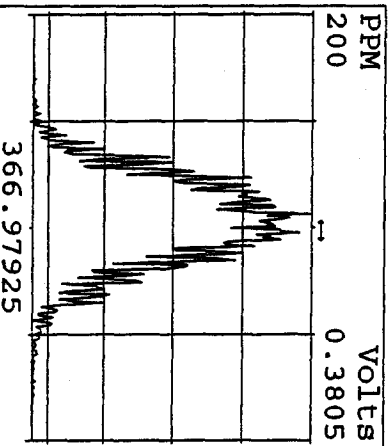
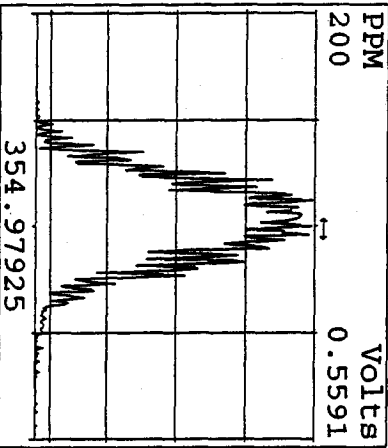
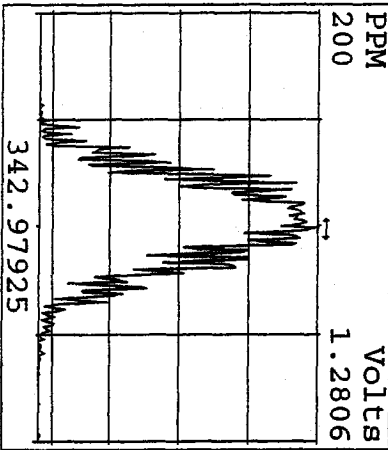
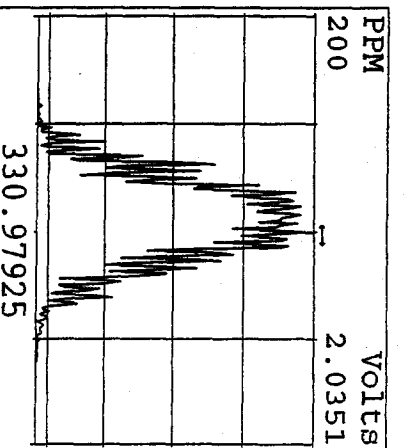
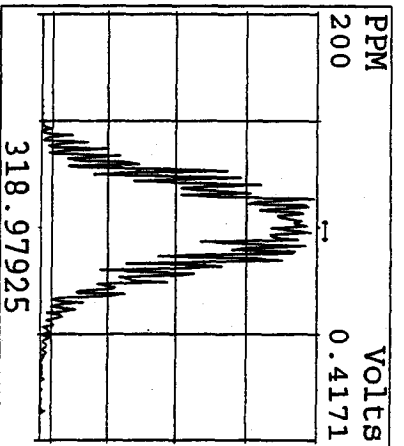
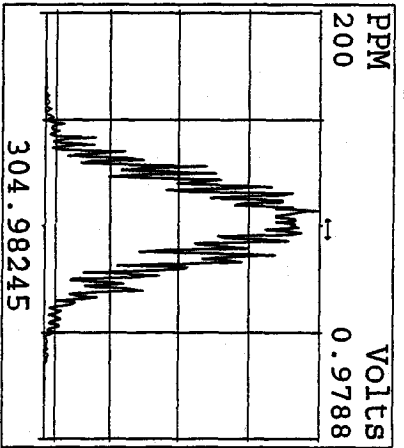
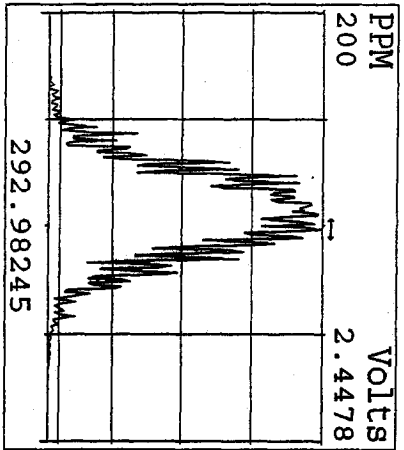
Run text: ST1217A File text: ST1217A :CS3 09DXN384
 Run #18 Filename 17DE091D5 S: 16 I: 1
 Acquired: 17-DEC-09 19:15:13 Processed: 17-DEC-09 19:54:56
 Run: 17DE091D5 Analyte: 8290 Cal: 82901215091D5 Results: 17DE091D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	263535000	0.81 y	16:37	-	100.00	-	n
13C-2,3,7,8-TCDF	406837000	0.80 y	16:11	1.54	100.00	-6.5	n
2,3,7,8-TCDF	49074500	0.78 y	16:12	1.21	10.00	7.2	n
Total TCDF	50172036	0.67 y	14:40	1.21	10.00	7.2	n
13C-2,3,7,8-TCDD	241354000	0.82 y	16:50	0.92	100.00	-3.0	n
2,3,7,8-TCDD	26677400	0.80 y	16:51	1.11	10.00	-6.7	n
Total TCDD	26677400	0.80 y	16:51	1.11	10.00	-6.7	n
37Cl-2,3,7,8-TCDD	61974800	1.00 y	16:51	2.35	10.00	-15.2	n
13C-1,2,3,7,8-PeCDF	284754000	1.62 y	20:46	1.08	100.00	-8.9	n
1,2,3,7,8-PeCDF	195787900	1.62 y	20:47	1.38	50.00	3.2	n
2,3,4,7,8-PeCDF	178968300	1.64 y	21:59	1.26	50.00	-0.7	n
Total F2 PeCDF	377311619	1.35 y	19:33	1.32	100.00	1.3	n
Total F1 PeCDF	*	* n	NotFnd	1.32	100.00	1.3	n
13C-1,2,3,7,8-PeCDD	155323000	1.66 y	22:37	0.59	100.00	-7.1	n
1,2,3,7,8-PeCDD	100047300	1.66 y	22:39	1.29	50.00	2.5	n
Total PeCDD	100253163	1.66 y	22:39	1.29	50.00	2.5	n
13C-1,2,3,7,8,9-HxCDD	148764400	1.30 y	31:12	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	193989100	0.52 y	28:25	1.30	100.00	2.6	n
1,2,3,4,7,8-HxCDF	130135200	1.29 y	28:27	1.34	50.00	4.6	n
1,2,3,6,7,8-HxCDF	144636600	1.28 y	28:45	1.49	50.00	7.6	n
2,3,4,6,7,8-HxCDF	133502300	1.28 y	30:16	1.38	50.00	5.7	n
1,2,3,7,8,9-HxCDF	117207400	1.29 y	31:28	1.21	50.00	4.3	n
Total HxCDF	525481500	1.29 y	28:27	1.35	200.00	5.6	n
13C-1,2,3,6,7,8-HxCDD	116749400	1.30 y	30:42	0.78	100.00	8.6	n
1,2,3,4,7,8-HxCDD	72814200	1.30 y	30:34	1.25	50.00	-1.2	n
1,2,3,6,7,8-HxCDD	89663800	1.27 y	30:44	1.54	50.00	10.4	n
1,2,3,7,8,9-HxCDD	90562500	1.31 y	31:12	1.55	50.00	5.8	n
Total HxCDD	254169627	1.30 y	30:34	1.44	150.00	5.2	n
13C-1,2,3,4,6,7,8-HpCDF	165791600	0.45 y	33:18	1.11	100.00	6.2	n
1,2,3,4,6,7,8-HpCDF	136936100	1.08 y	33:19	1.65	50.00	6.7	n
1,2,3,4,7,8,9-HpCDF	107679400	1.07 y	34:31	1.30	50.00	-0.6	n
Total HpCDF	245595094	1.08 y	33:19	1.48	100.00	3.3	n
13C-1,2,3,4,6,7,8-HpCDD	126664900	0.98 y	34:11	0.85	100.00	12.3	n
1,2,3,4,6,7,8-HpCDD	79459200	1.10 y	34:11	1.25	50.00	-1.8	n
Total HpCDD	79459200	1.10 y	34:11	1.25	50.00	-1.8	n
13C-OCDD	203826700	0.87 y	36:47	0.69	200.00	-4.4	n
OCDF	165694700	0.92 y	36:53	1.63	100.00	3.1	n
OCDD	115199900	0.89 y	36:48	1.13	100.00	0.4	n

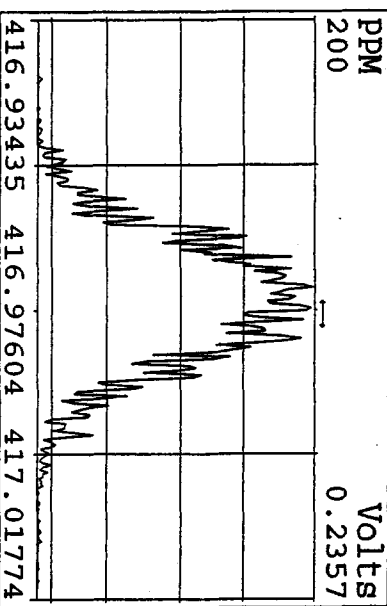
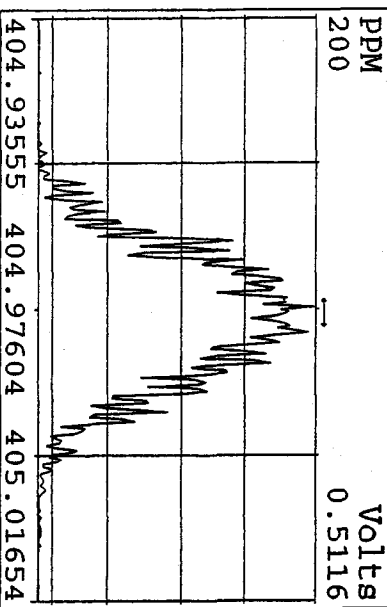
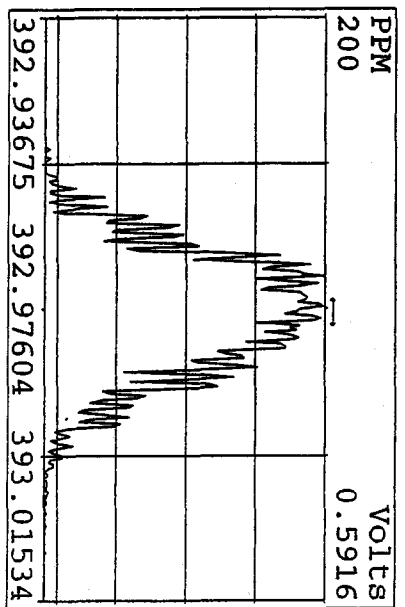
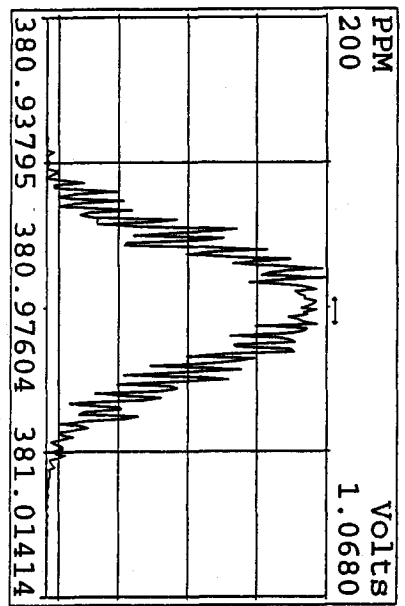
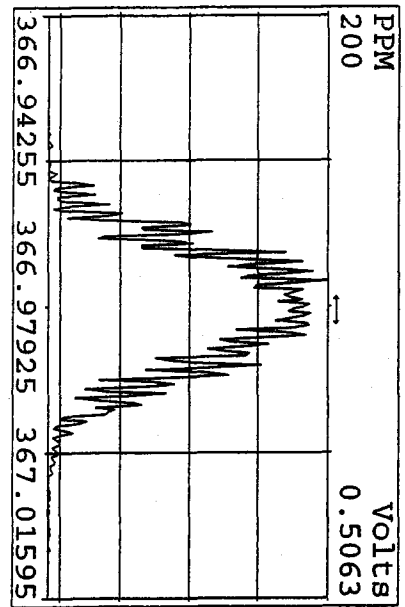
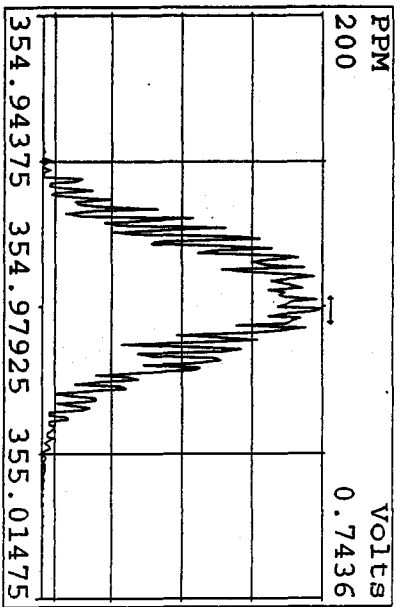
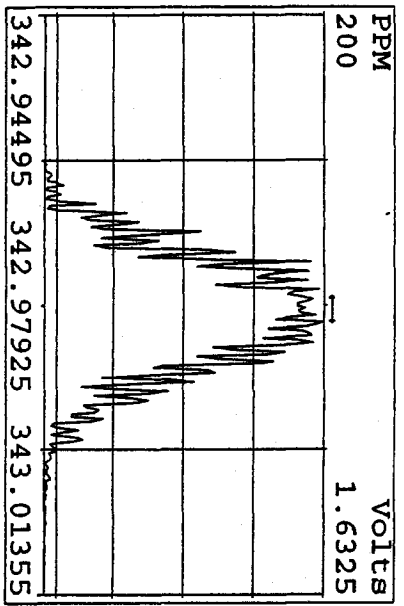
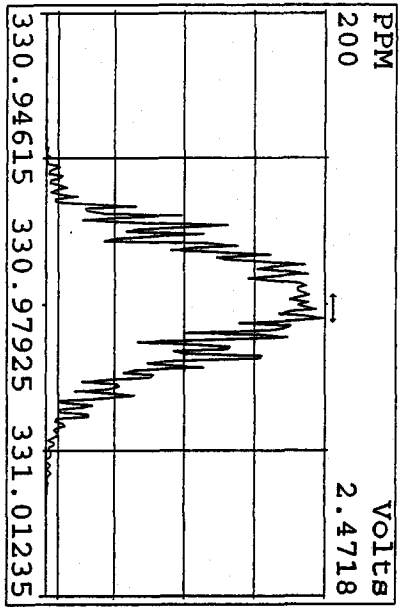
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
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17DE091D5	3	SB1217	Solvent Blank C-14				1.000	
17DE091D5	4	LQ3ME-1-AA	G9L140000-326B	20	8290/WATER	64	1.000	L
17DE091D5	5	LQ3ME-1-AC	G9L140000-326C	20	8290/WATER		1.000	L
17DE091D5	6	LQWFH-1-AA	G9L100559-16	10	8290/WATER		1.049	L
17DE091D5	7	LQ025-1-AA	G9L110588-24	10	8290/WATER		1.049	L
17DE091D5	8	LQ224-1-AA	G9L120491-9	10	8290/WATER		1.052	L
17DE091D5	9	LQWEF-1-AC	G9L100559-3 (20x)	10	8290/SOLID		10.620	g
17DE091D5	10	LQWFC-1-AC	G9L100559-14 (20x)	10	8290/SOLID		10.170	g
17DE091D5	11	LQWFF-1-AC	G9L100559-15	10	8290/SOLID		10.840	g
17DE091D5	12	LQWFF-1-AD	G9L100559-15S	10	8290/SOLID		10.240	g
17DE091D5	13	LQWFF-1-AE	G9L100559-15D	10	8290/SOLID		10.260	g
17DE091D5	14	SB1217A	Solvent Blank C-14				1.000	
17DE091D5	15	SB1217B	Solvent Blank C-14				1.000	
17DE091D5	16	ST1217A	CS3 09DXN384				1.000	
17DE091D5	17						1.000	
17DE091D5	18						1.000	
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log file checked
12-17-09 am

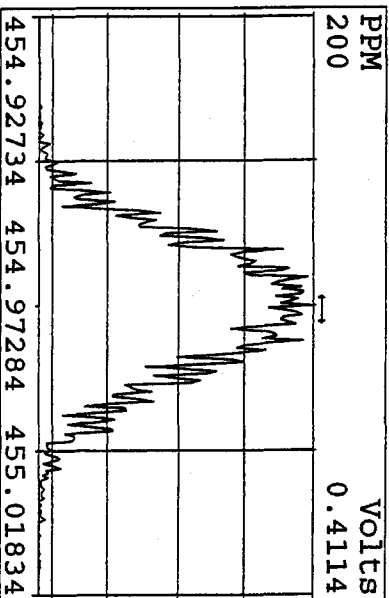
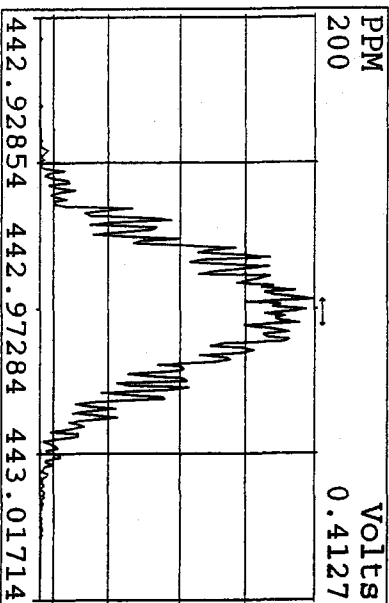
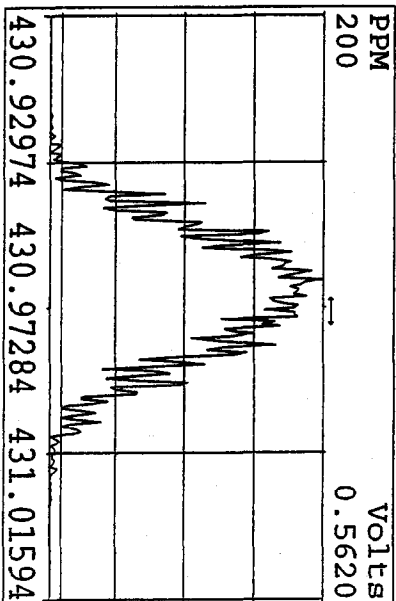
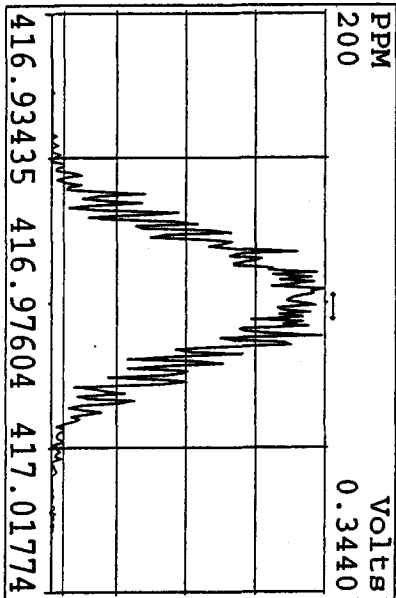
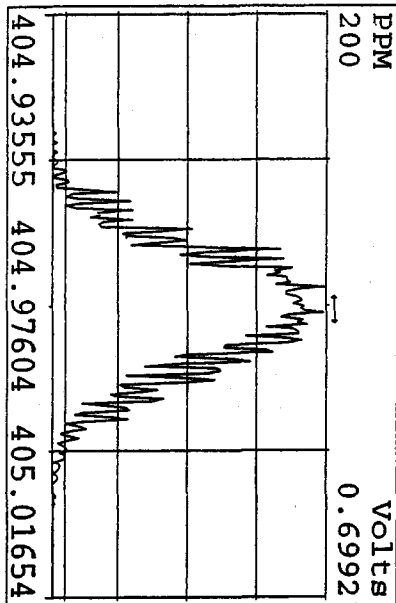
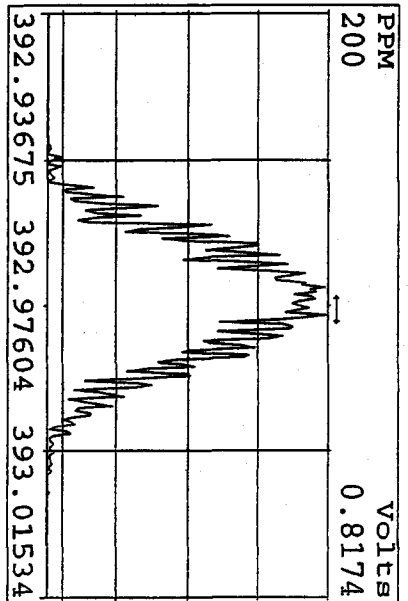
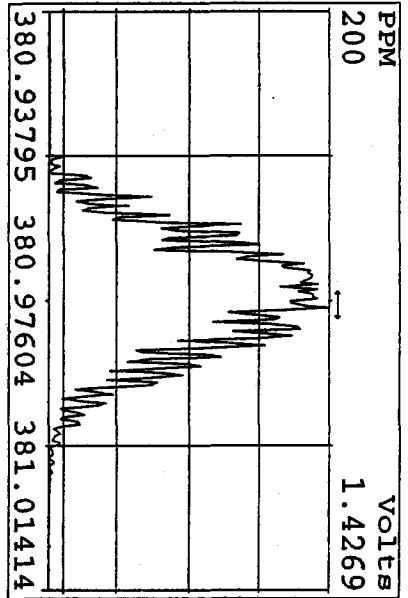
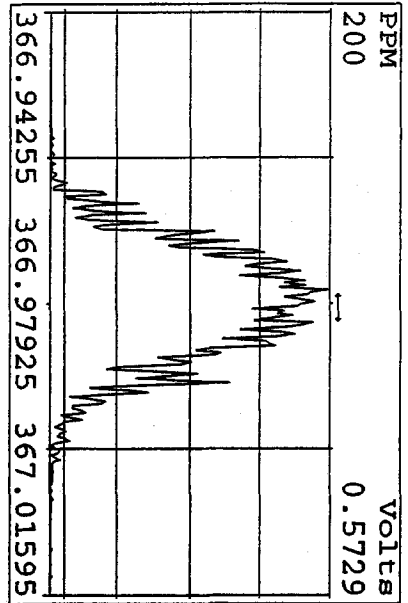
Peak Locate Examination:17-DEC-2009:08:41 File:17DE091D5
Experiment:DIOXIN Function:1 Reference:PFK



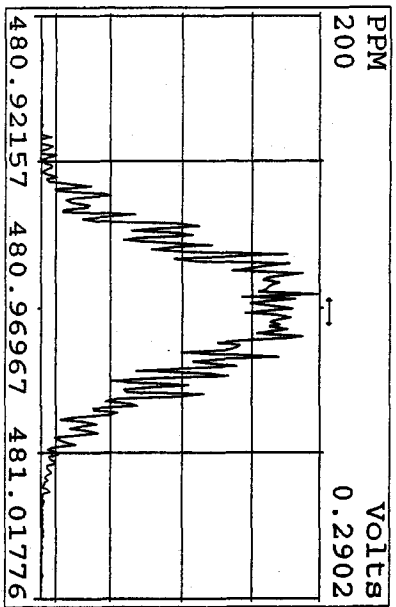
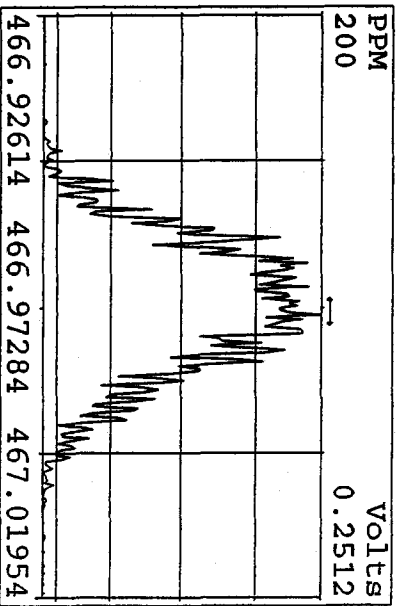
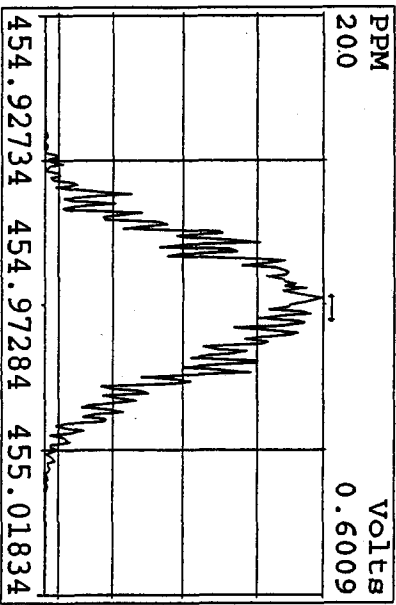
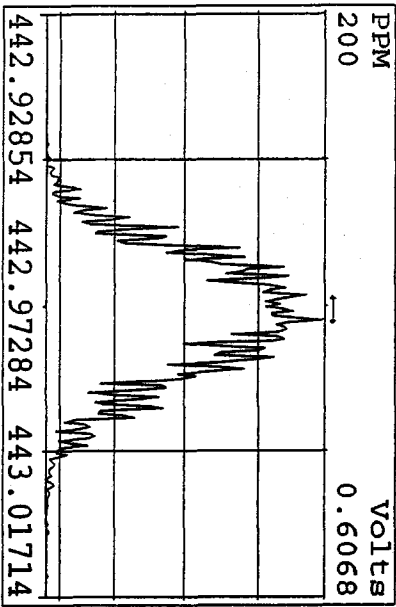
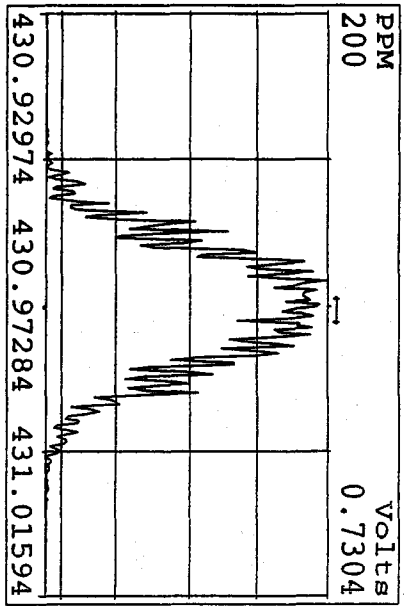
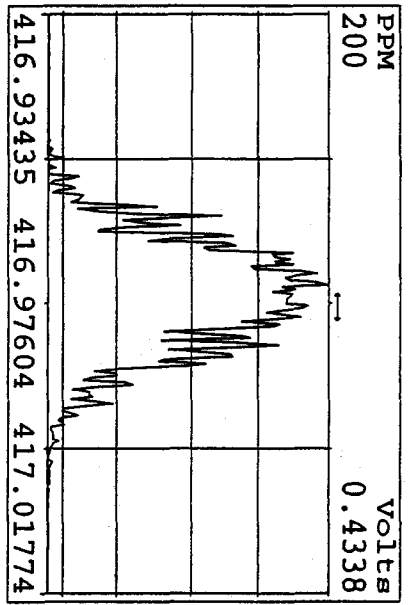
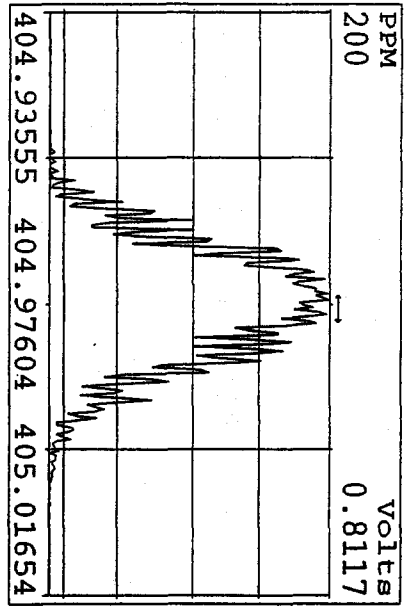
Peak Locate Examination:17-DEC-2009:08:44 File:17DFE091D5
 Experiment:DIOXIN Function:2 Reference:PFK



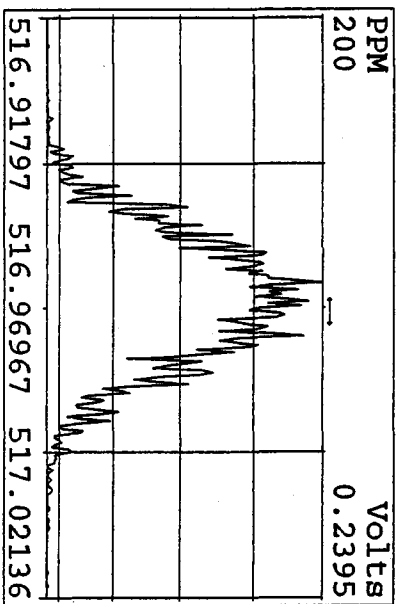
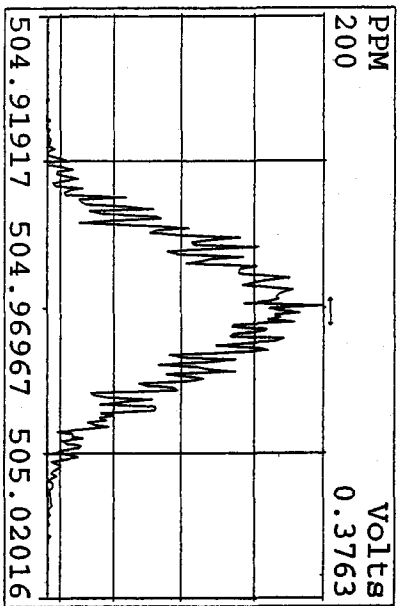
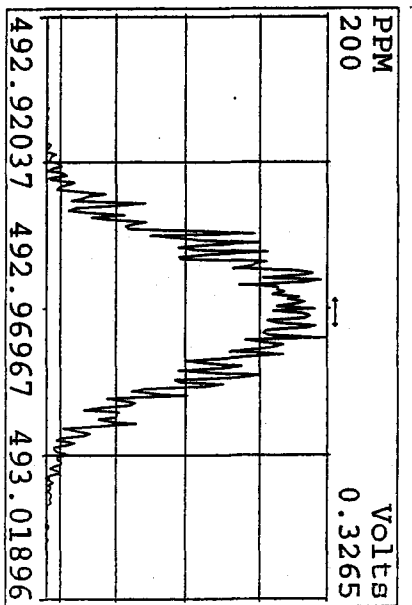
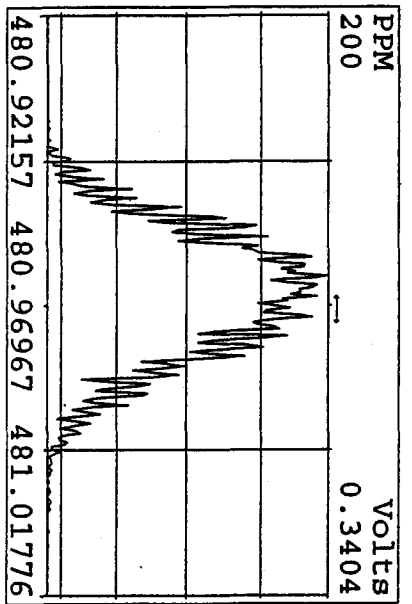
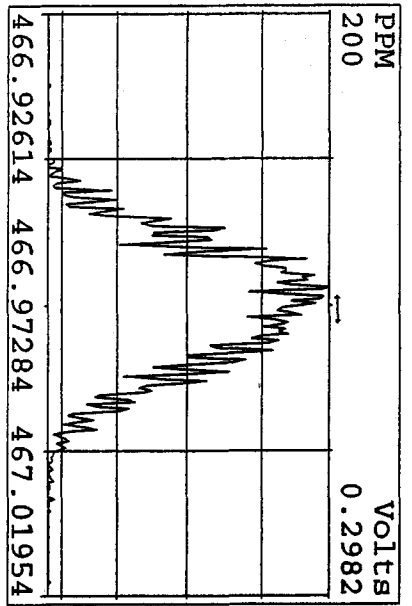
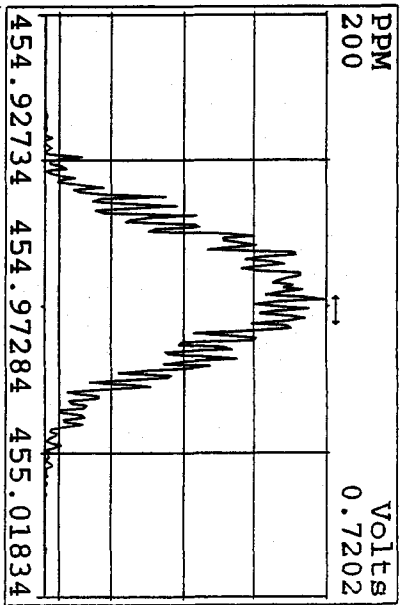
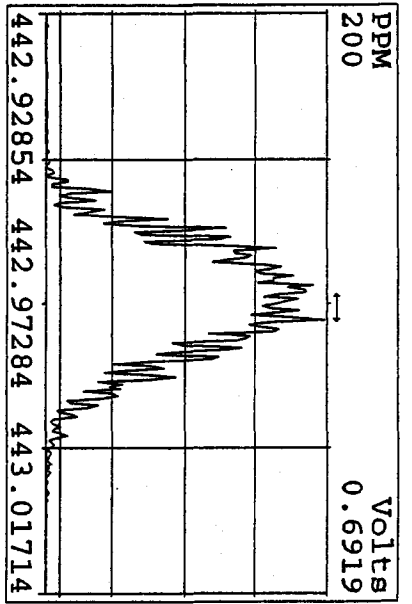
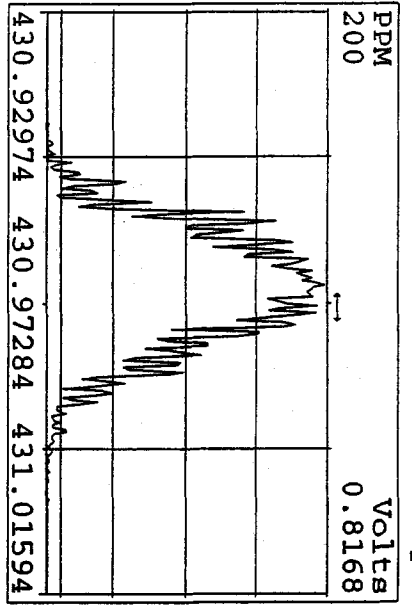
Peak Locate Examination: 17-DEC-2009:08:45 File: 17DE091D5
 Experiment: DIOXIN Function: 3 Reference: PFK



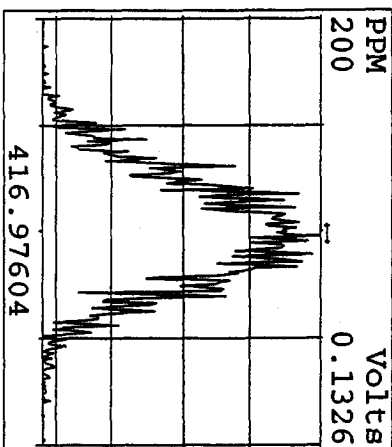
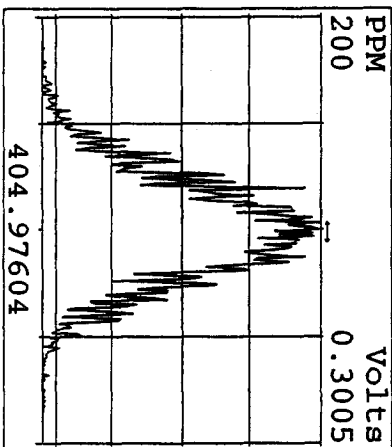
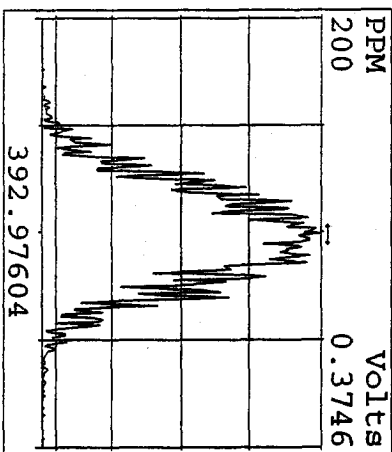
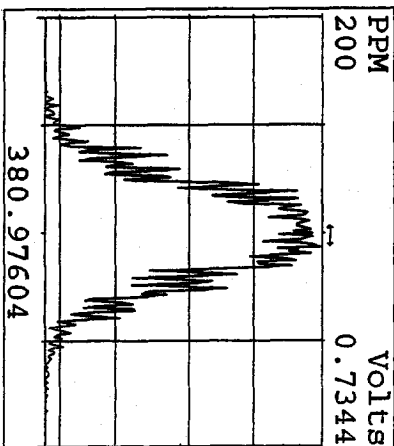
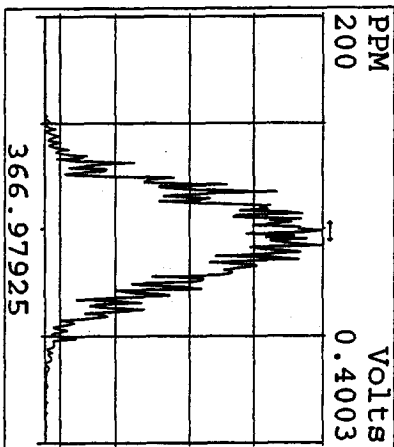
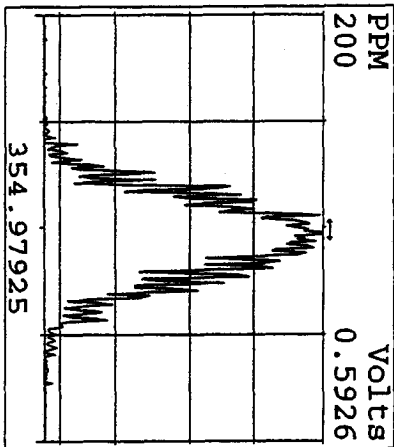
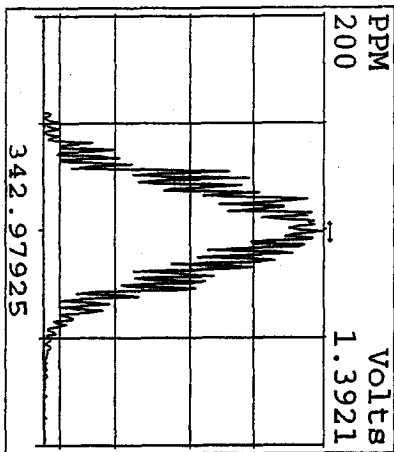
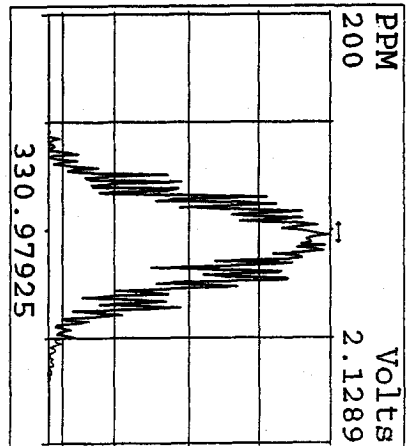
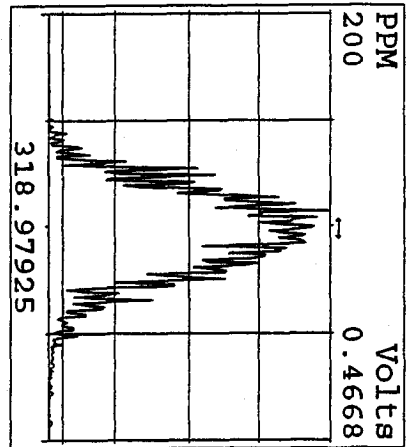
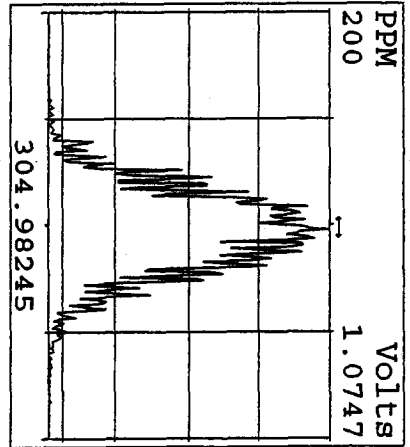
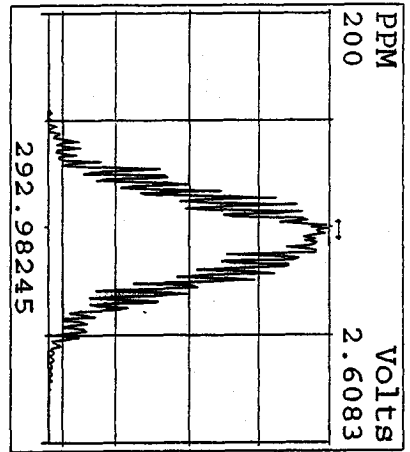
Peak Locate Examination: 17-DEC-2009: 08:45 File: 17DE091D5
 Experiment: DIOXIN Function: 4 Reference: PFK



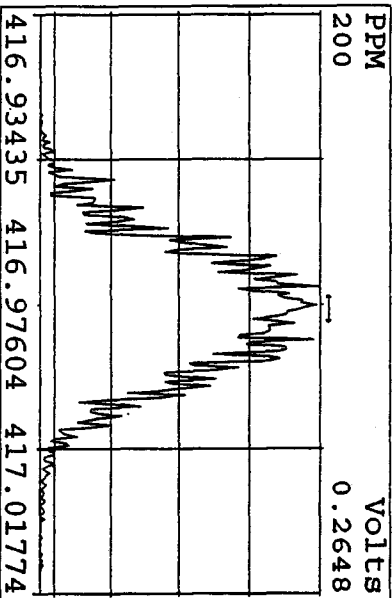
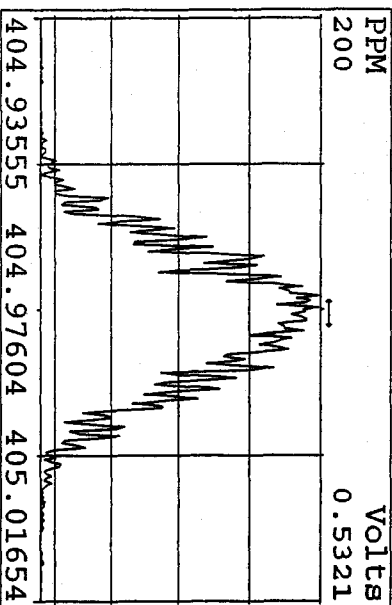
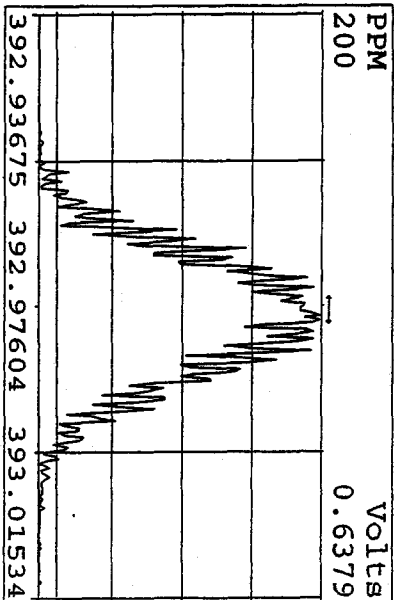
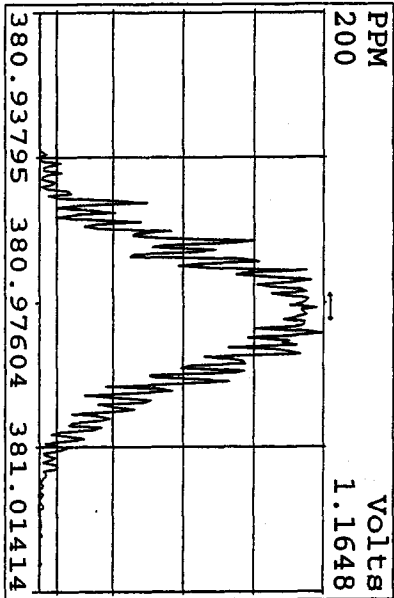
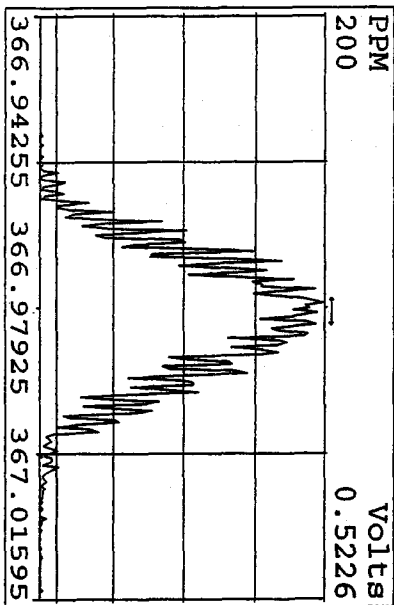
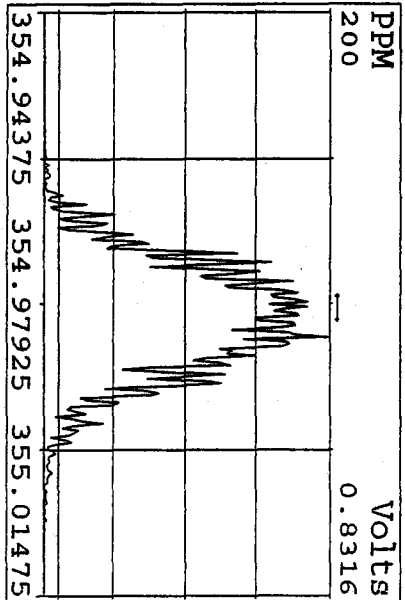
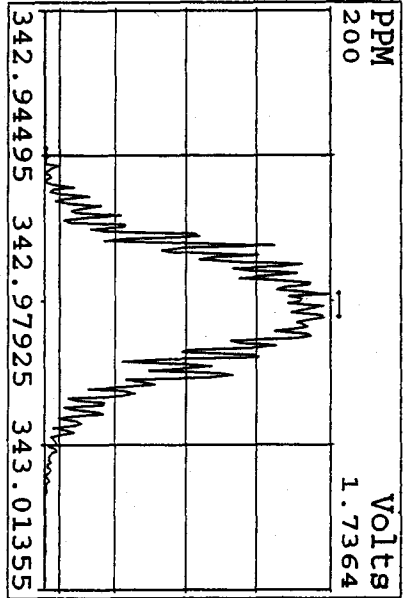
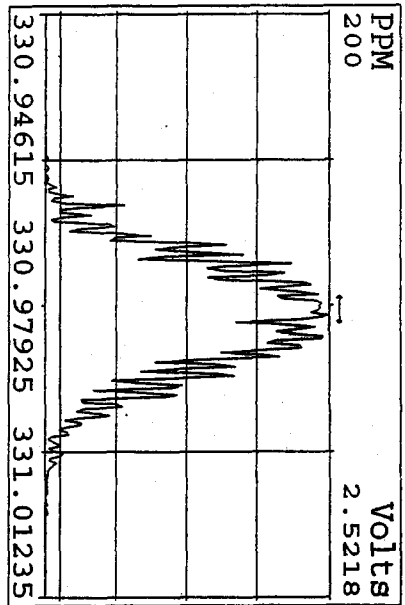
Peak Locate Examination:17-DEC-2009:08:46 File:17DE091D5
 Experiment:DIOXIN Function:5 Reference:PFK



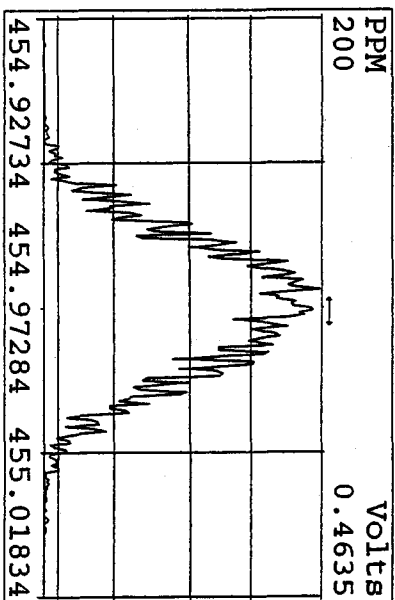
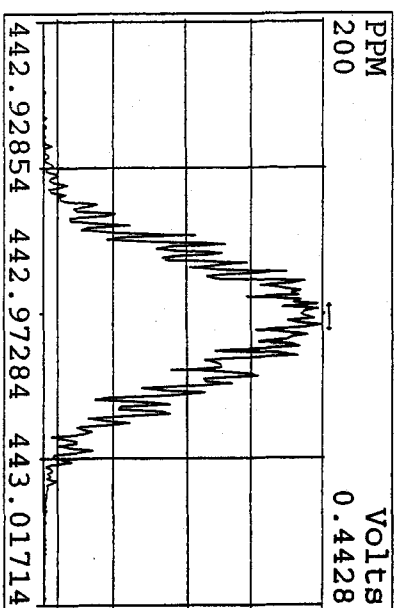
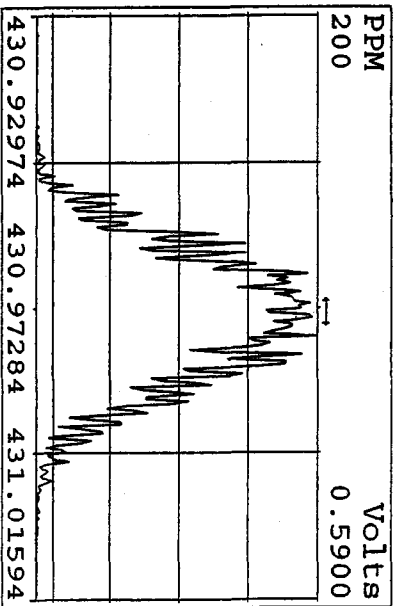
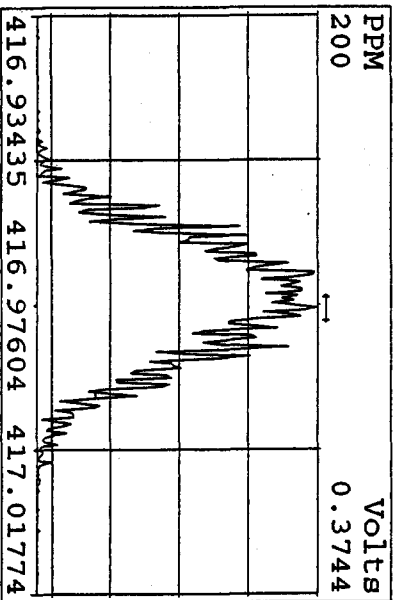
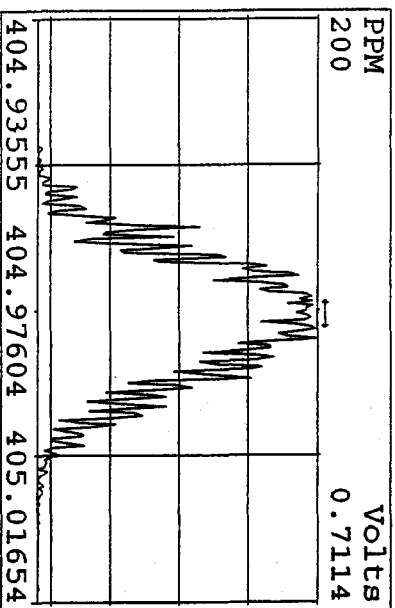
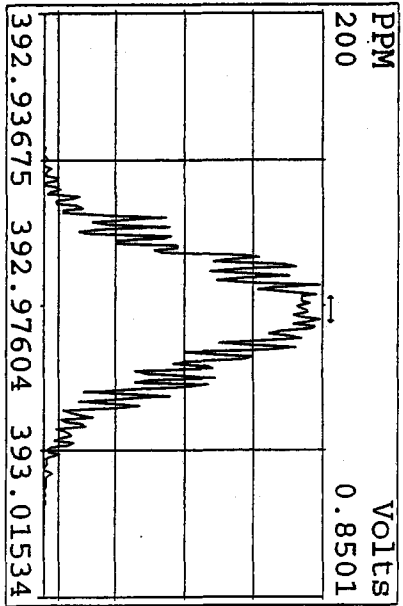
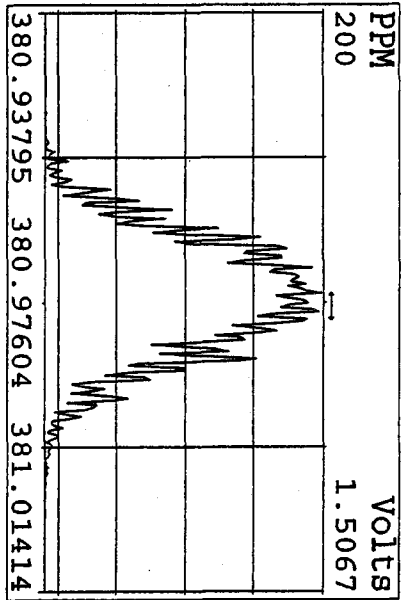
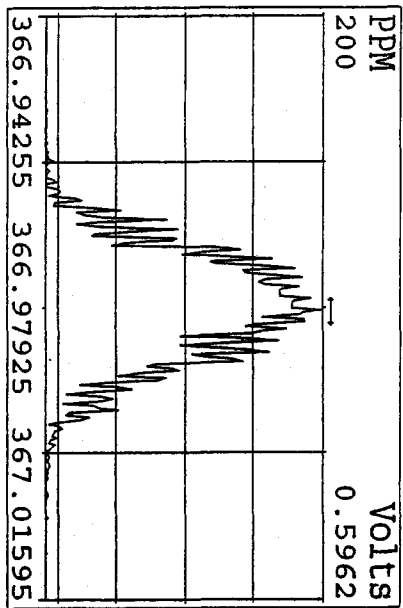
Peak Locate Examination: 17-DEC-2009:20:04 File: RESCHK17DE091DS
Experiment: DIOXIN Function: 1 Reference: PFK



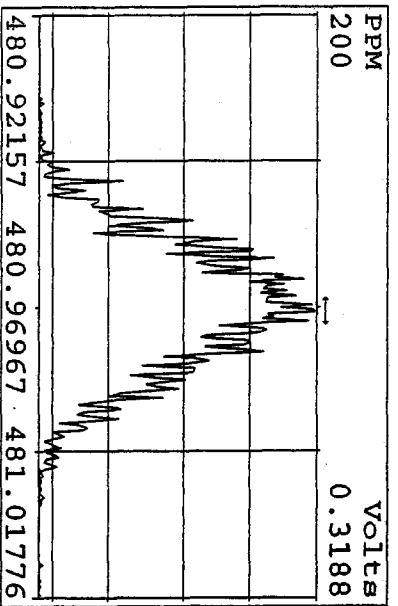
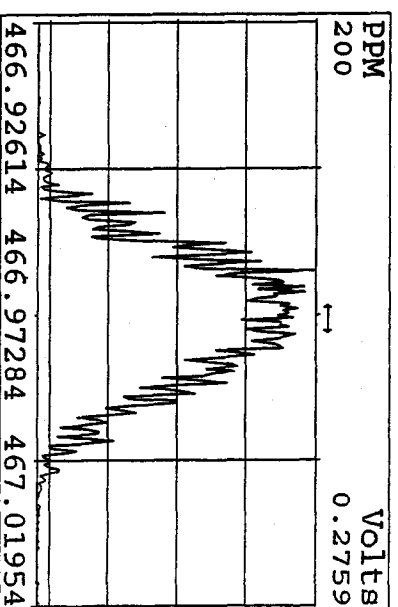
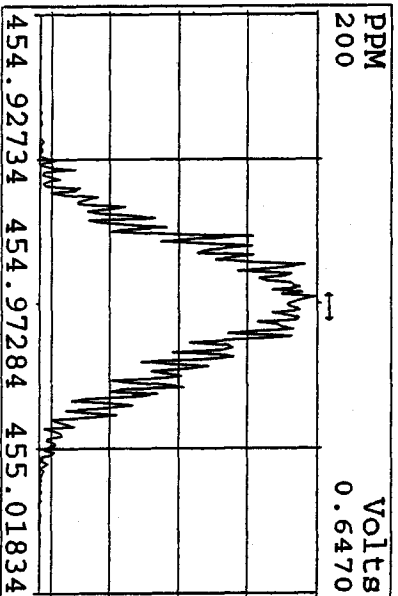
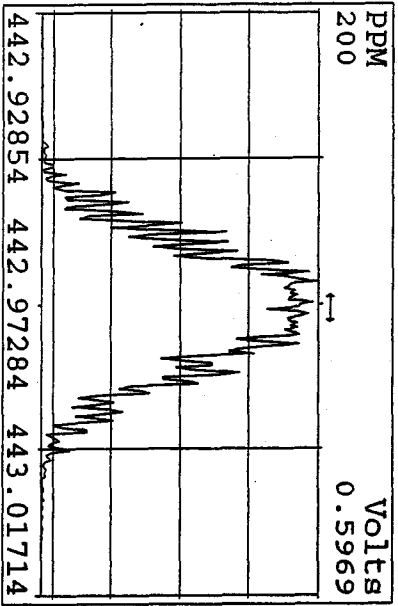
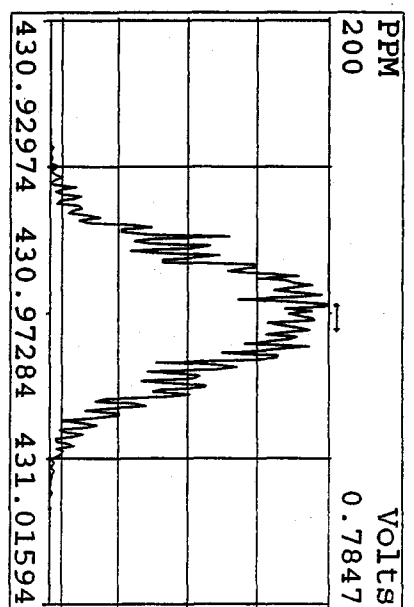
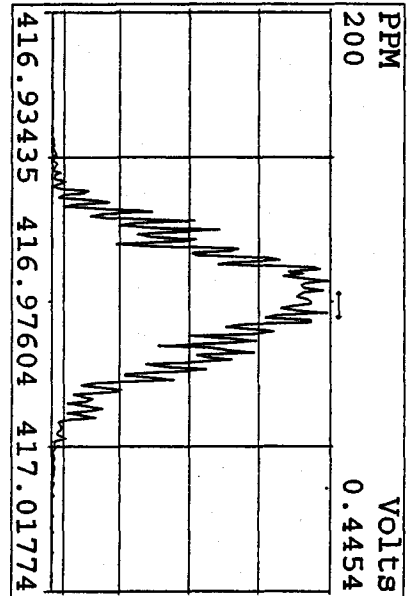
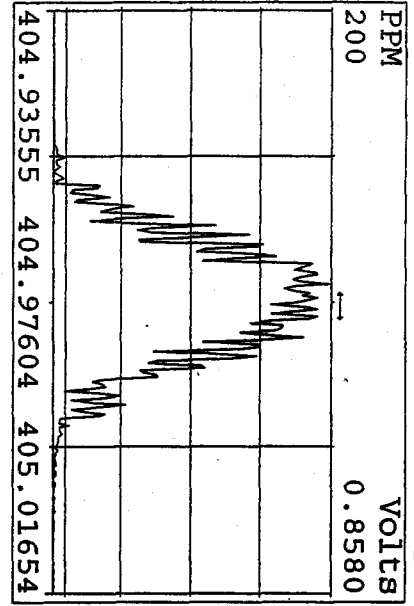
Peak Locate Examination: 17-DEC-2009:20:05 File: RESCHK17DE091D5
Experiment: DIOXIN Function: 2 Reference: PRK



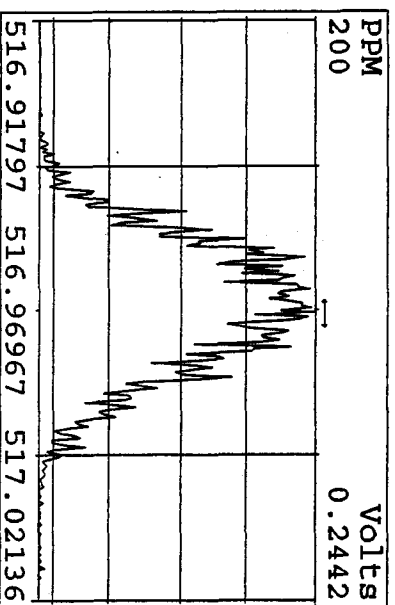
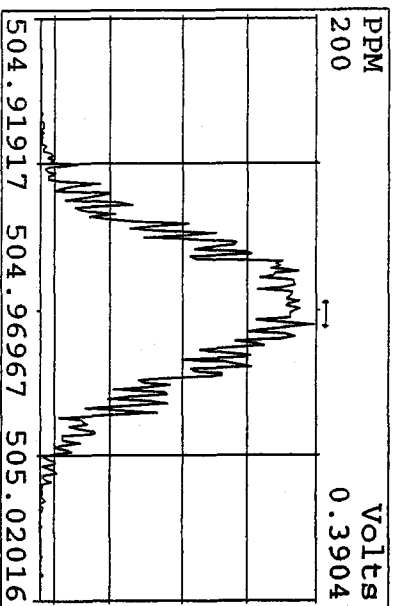
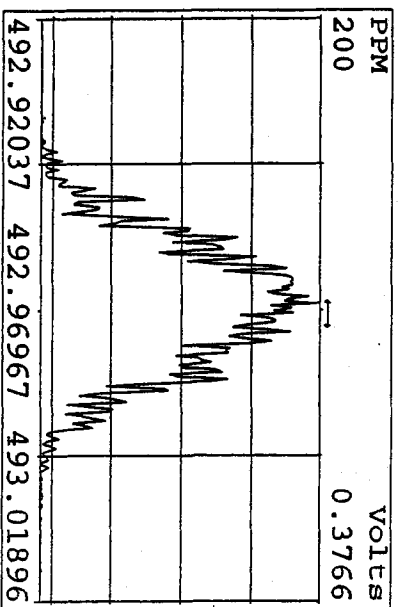
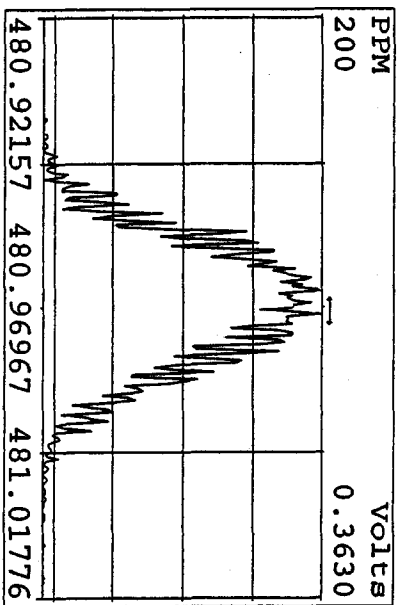
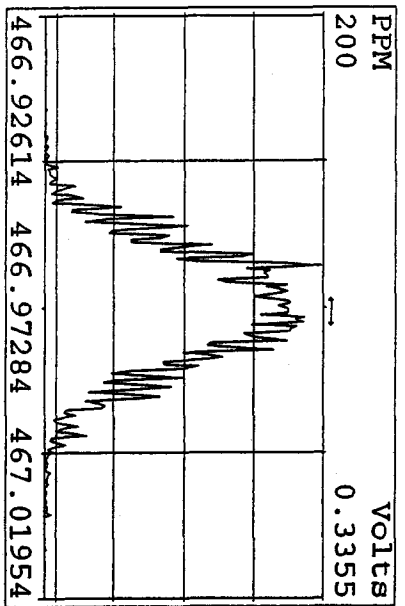
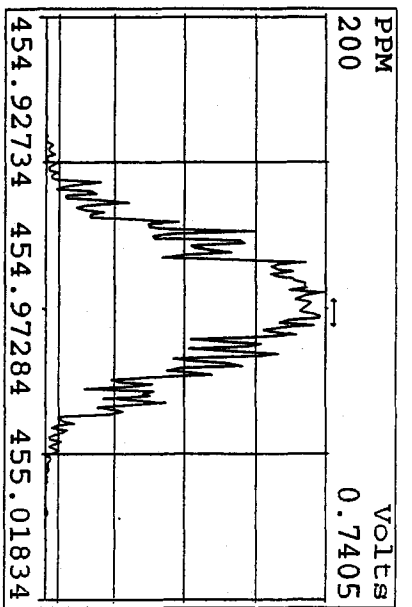
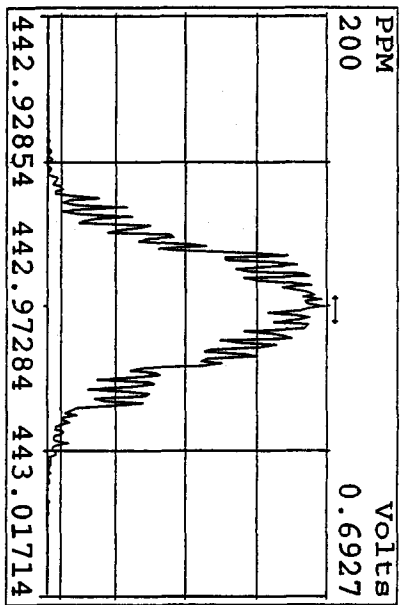
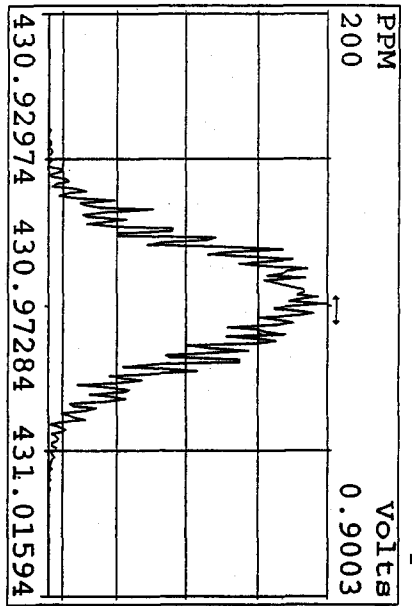
Peak Locate Examination: 17-DEC-2009:20:06 File: RESCHK17DE091DS
 Experiment: DIOXIN Function: 3 Reference: PFK



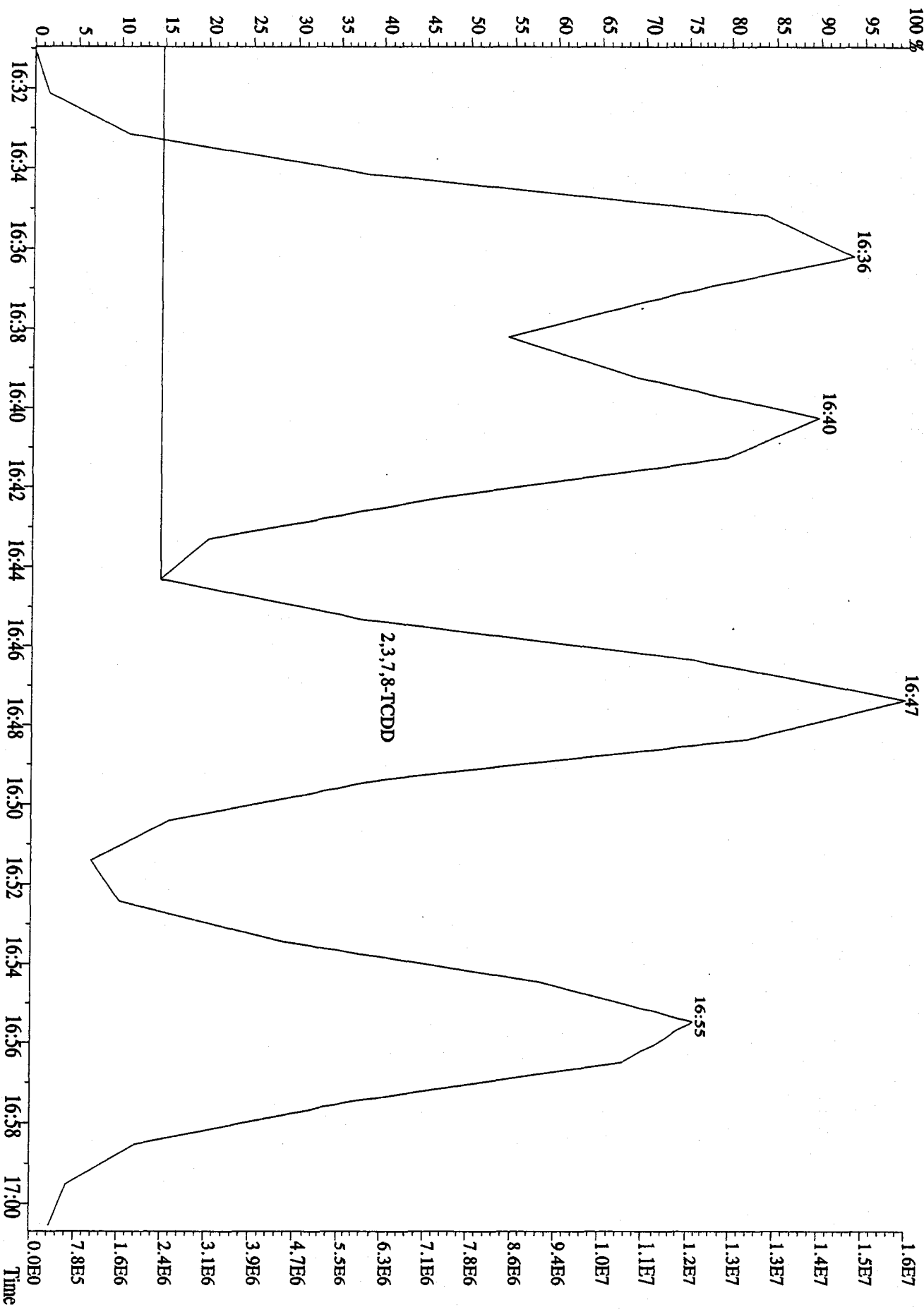
Peak Locate Examination: 17-DEC-2009:20:07 File: RESCHK17DE091DS
 Experiment: DIOXIN Function: 4 Reference: PFK



Peak Locate Examination:17-DEC-2009:20:08 File:RESCHK17DE091D5
 Experiment:DIOXIN Function:5 Reference:PFK



File: 17DEB091D5 #1-349 Acq: 17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE
 Sample#2 Text: CP1217 :DB-5 CPSM 3732-04 Exp: DIOXIN
 321.8936 S:2 BSUBR(128,15,-3.0)



ST1215J :CS1 09DXN236 ST1215I :CS2 09DXN237 ST1215H :CS3 09DXN384
 ST1215F :CS4 09DXN311 ST1215K :CS5 09DXN412

Name	Mean	S. D.	%RSD	15DE091D5				
				S12	S11	S10	S8	S13
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-

13C-2,3,7,8-TCDF	1.652	0.065	3.91 %	1.59	1.64	1.72	1.72	1.59
2,3,7,8-TCDF	1.125	0.124	11.0 %	0.98	1.00	1.20	1.24	1.21
Total TCDF	1.125	0.124	11.0 %	0.98	1.00	1.20	1.24	1.21

13C-2,3,7,8-TCDD	0.944	0.035	3.72 %	0.89	0.96	0.97	0.98	0.92
2,3,7,8-TCDD	1.185	0.109	9.18 %	1.07	1.08	1.20	1.29	1.29
Total TCDD	1.185	0.109	9.18 %	1.07	1.08	1.20	1.29	1.29

37Cl-2,3,7,8-TCDD	2.774	0.760	27.4 %	2.08	2.28	2.52	3.00	3.98
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13C-1,2,3,7,8-PeCDF	1.186	0.039	3.32 %	1.16	1.17	1.23	1.23	1.15
1,2,3,7,8-PeCDF	1.332	0.138	10.3 %	1.13	1.24	1.44	1.44	1.41
2,3,4,7,8-PeCDF	1.266	0.137	10.8 %	1.07	1.19	1.40	1.36	1.31
Total F2 PeCDF	1.299	0.137	10.5 %	1.10	1.22	1.42	1.40	1.36
Total F1 PeCDF	1.299	0.137	10.5 %	1.10	1.22	1.42	1.40	1.36

13C-1,2,3,7,8-PeCDD	0.635	0.039	6.14 %	0.62	0.61	0.67	0.68	0.59
1,2,3,7,8-PeCDD	1.257	0.139	11.0 %	1.08	1.13	1.33	1.36	1.38
Total PeCDD	1.257	0.139	11.0 %	1.08	1.13	1.33	1.36	1.38

13C-1,2,3,7,8-HxCDF	1.271	0.023	1.80 %	1.30	1.25	1.25	1.29	1.27
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1,2,3,4,7,8-HxCDF	1.282	0.161	12.6 %	1.05	1.18	1.36	1.43	1.40
1,2,3,6,7,8-HxCDF	1.386	0.181	13.1 %	1.11	1.30	1.45	1.55	1.52
2,3,4,6,7,8-HxCDF	1.303	0.165	12.7 %	1.06	1.20	1.41	1.42	1.42
1,2,3,7,8,9-HxCDF	1.159	0.156	13.5 %	0.93	1.07	1.26	1.31	1.22
Total HxCDF	1.282	0.165	12.9 %	1.04	1.19	1.37	1.43	1.39

13C-1,2,3,6,7,8-HxCDD	0.722	0.016	2.17 %	0.70	0.73	0.72	0.73	0.73
1,2,3,4,7,8-HxCDD	1.263	0.170	13.4 %	1.07	1.09	1.33	1.42	1.40

1,2,3,6,7,8-HxCDD	1.391	0.165	11.9 %	1.20	1.22	1.49	1.51	1.54
1,2,3,7,8,9-HxCDD	1.467	0.160	10.9 %	1.27	1.33	1.56	1.63	1.55
Total HxCDD	1.374	0.164	11.9 %	1.18	1.21	1.46	1.52	1.50
13C-1,2,3,4,6,7,8-HpCDD	1.050	0.033	3.13 %	1.06	1.07	1.07	1.07	0.99
1,2,3,4,6,7,8-HpCDF	1.549	0.179	11.6 %	1.27	1.46	1.68	1.66	1.66
1,2,3,4,7,8,9-HpCDF	1.307	0.148	11.3 %	1.09	1.22	1.38	1.46	1.38
Total HpCDD	1.428	0.162	11.4 %	1.18	1.34	1.53	1.56	1.52
13C-1,2,3,4,6,7,8-HpCDD	0.758	0.035	4.66 %	0.79	0.80	0.73	0.76	0.71
1,2,3,4,6,7,8-HpCDD	1.277	0.148	11.6 %	1.10	1.13	1.36	1.40	1.39
Total HpCDD	1.277	0.148	11.6 %	1.10	1.13	1.36	1.40	1.39
13C-OCDD	0.716	0.055	7.68 %	0.76	0.75	0.70	0.75	0.63
OCDF	1.578	0.226	14.3 %	1.25	1.44	1.68	1.74	1.78
OCDD	1.126	0.127	11.3 %	0.95	1.03	1.20	1.21	1.23

Daily Calibration Checklist Dioxin Methods

Method ID 8290

Associated ICAL DB225102109502

Column ID DB 225

Instrument ID 502

STD ID ST1230A, ST1230B

STD Solution C53 090XN384

Analyzed by K66, AUD

Date Analyzed 12/30/09

Std. Pkg. By K66

Date Std. Pkg. Assembled 12/31/09

Std. Pkg. Reviewed By M.G.

Date Std. Pkg. Reviewed 12/31/09

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?	N/A	NA
Ending Standard present?	/	✓
Ending Static Resolutions present	/	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS: _____

* Method 8290/TO9/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
 Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
 Method 23: See Method 23 Daily Standard Criteria, Table 5.
 Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,
 ** Method 23/0023A CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
 Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1230A

File text: CS3 09DXN384

Run #6 Filename 3ODE09B5D2 S: 2

I: 1

Acquired: 30-DEC-09 15:53:01

Processed: 30-DEC-09 16:13:41

Run: 21OC095D2 Analyte: DB225

Cal: DB2251021095D2

Results: 30DE09B5D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	139331700	0.80 y	14:28	-	100.00	-	n
13C-2,3,7,8-TCDF	257721000	0.78 y	15:34	1.85	100.00	-6.4	n
2,3,7,8-TCDF	27627400	0.82 y	15:35	1.07	10.00	-9.1	n
13C-2,3,7,8-TCDD	129631400	0.78 y	14:15	0.93	100.00	-4.2	n
2,3,7,8-TCDD	21200790	0.81 y	14:16	1.64	10.00	8.6	n
37Cl-2,3,7,8-TCDD	36541600	1.00 y	14:16	2.62	10.00	-3.0	n

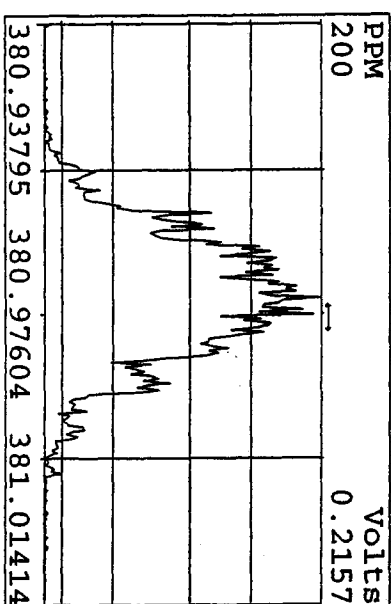
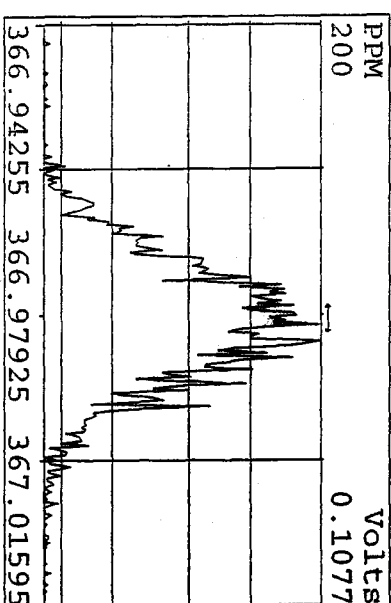
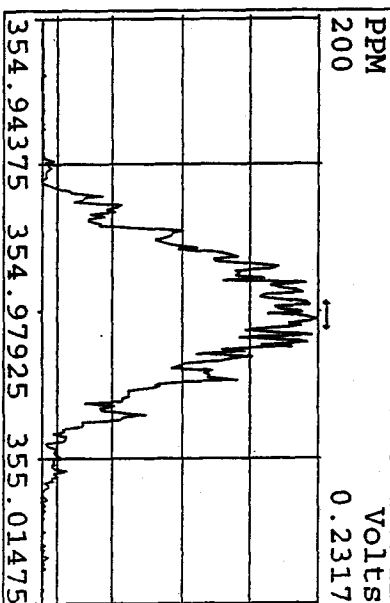
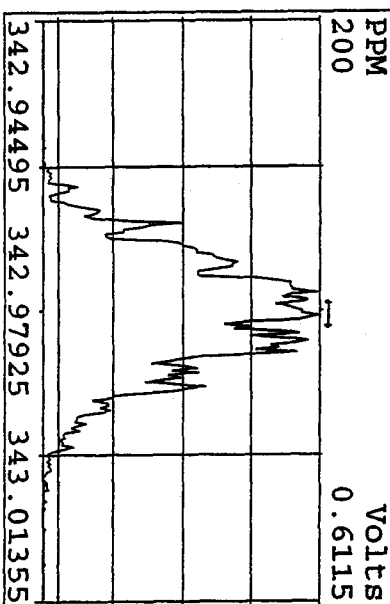
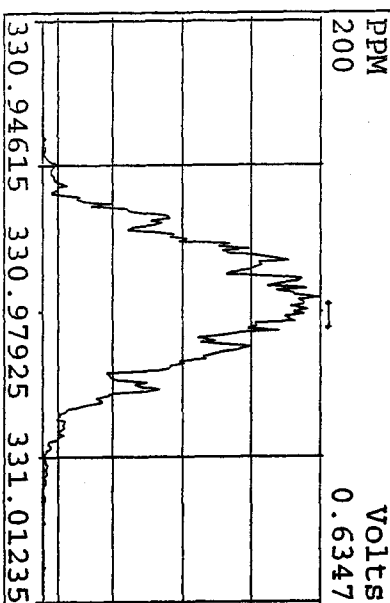
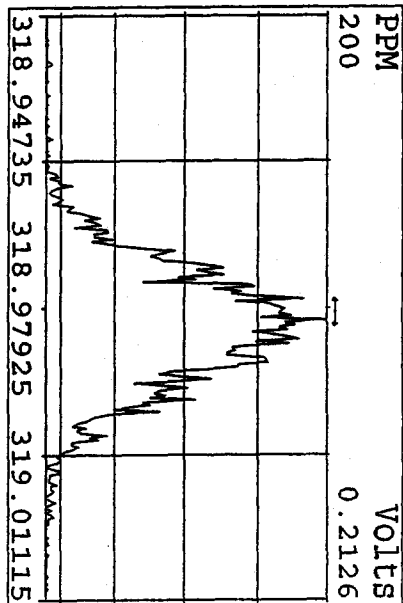
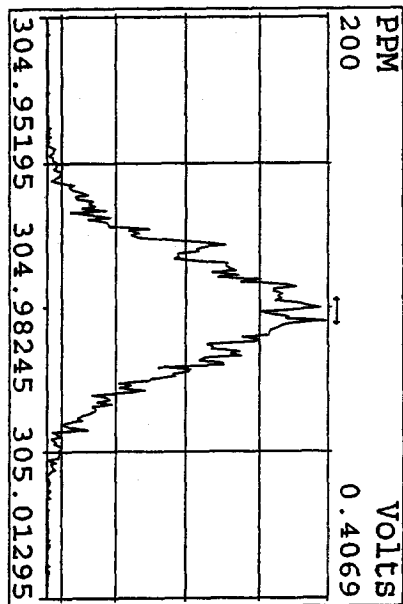
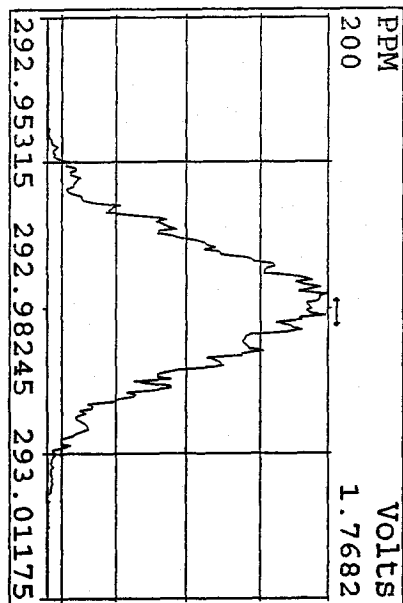
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Run #17 Filename 30DE09B5D2 S: 14 I: 1
Acquired: 30-DEC-09 23:17:43 Processed: 31-DEC-09 10:31:58
Run: 30DE09B5D2 Analyte: DB225 Cal: DB2251021095D2 Results: 30DE09B5D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	137697168	0.76 y	14:28	-	100.00	-	n
13C-2,3,7,8-TCDF	258127920	0.79 y	15:33	1.87	100.00	-5.1	n
2,3,7,8-TCDF	26251387	0.85 y	15:35	1.02	10.00	-13.8	n
13C-2,3,7,8-TCDD	131755016	0.74 y	14:14	0.96	100.00	-1.4	n
2,3,7,8-TCDD	21601473	0.79 y	14:15	1.64	10.00	8.9	n
37C1-2,3,7,8-TCDD	39884384	1.00 y	14:15	2.90	10.00	7.1	n

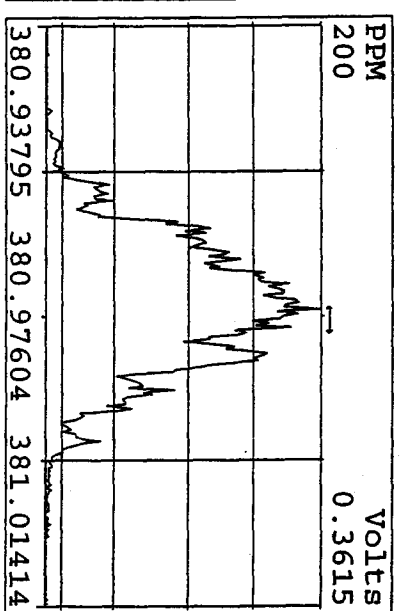
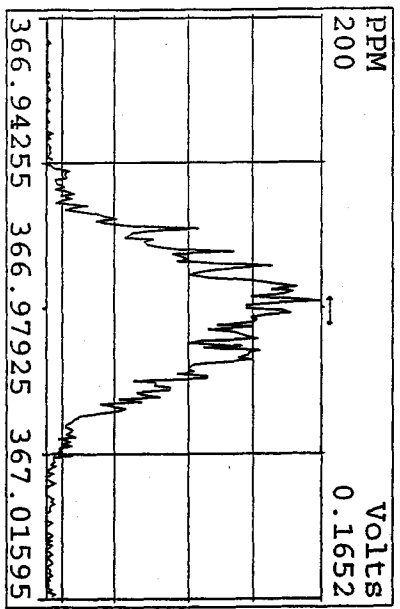
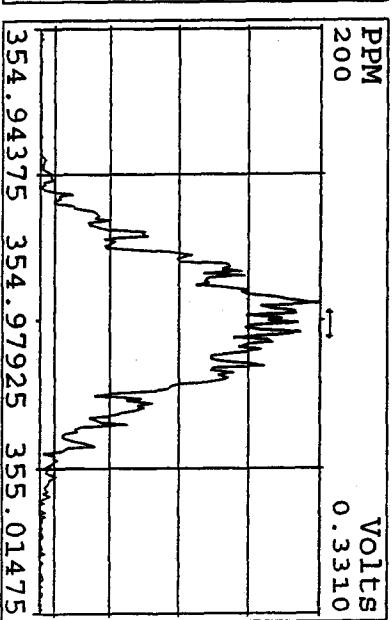
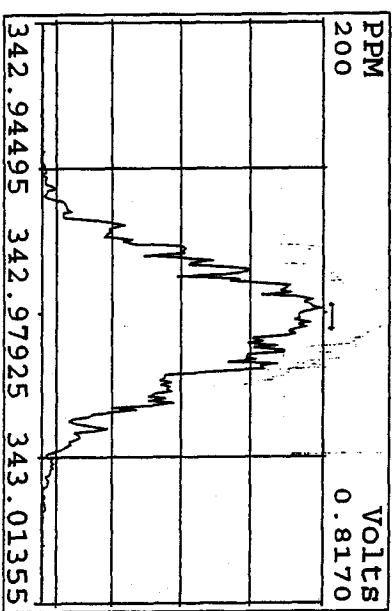
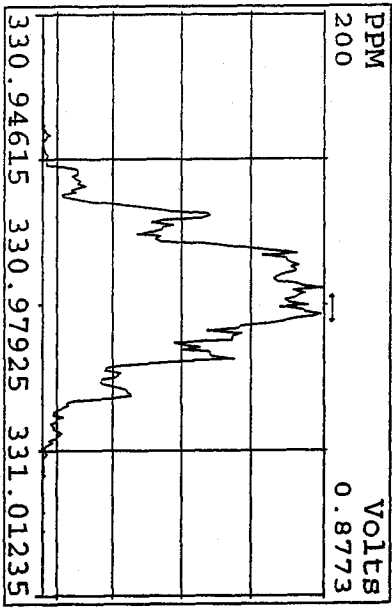
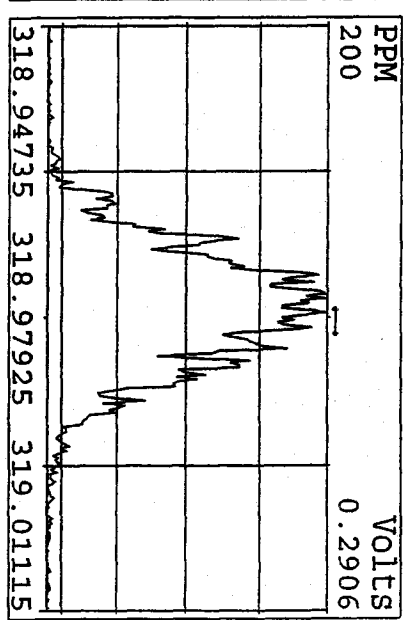
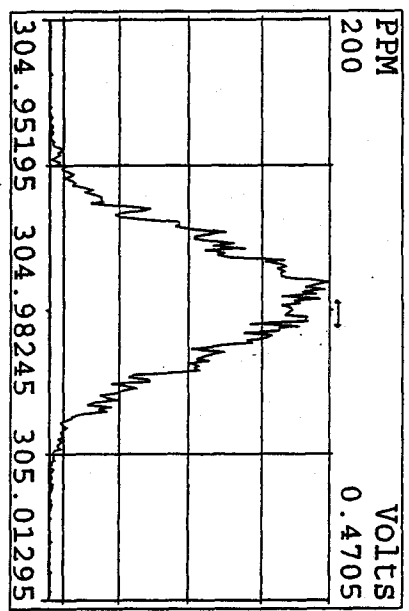
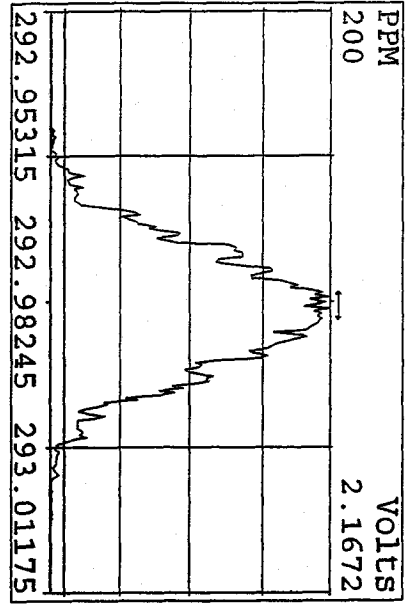
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
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30DE09B5D2	3	SB1230A	Solvent Blank C-14				1.000	
30DE09B5D2	4	LRDGT-1-AA	G9L180608-1	20	1613BDW/WATERS	75	1.027	L
30DE09B5D2	5	LRDJW-1-AA	G9L180617-1	20	1613BDW/WATERS		1.024	L
30DE09B5D2	6	LREK1-1-AA	G9L190499-1	20	1613BDW/WATERS		1.017	L
30DE09B5D2	7	LRJ3 7-1-AA	G9L230489-1	20	1613BDW/WATERS		1.028	L
30DE09B5D2	8	LQ9HC-1-AC	G9L170566-1	20	8290/SOLID	73	10.050	g
30DE09B5D2	9	LQ025-1-AA	G9L110588-24	10	8290/WATER	64	1.049	L
30DE09B5D2	10	LQ224-1-AA	G9L120491-9	10	8290/WATER		1.052	L
30DE09B5D2	11	LQ01D-2-AC	G9L110588-5RX	20	8290/SOLID	71	0.224	g
30DE09B5D2	12	LQ010-2-AC	G9L110588-15RX	20	8290/SOLID		0.326	g
30DE09B5D2	13	SB1230B	Solvent Blank C-14				1.000	
30DE09B5D2	14	ST1230B	CS3 09DXN384				1.000	
30DE09B5D2	15						1.000	
30DE09B5D2	16						1.000	
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30DE09B5D2	18						1.000	
30DE09B5D2	19						1.000	
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30DE09B5D2	21						1.000	

KSS, AM 12-30-09 LOGFILE ✓
12-31-09
KSS

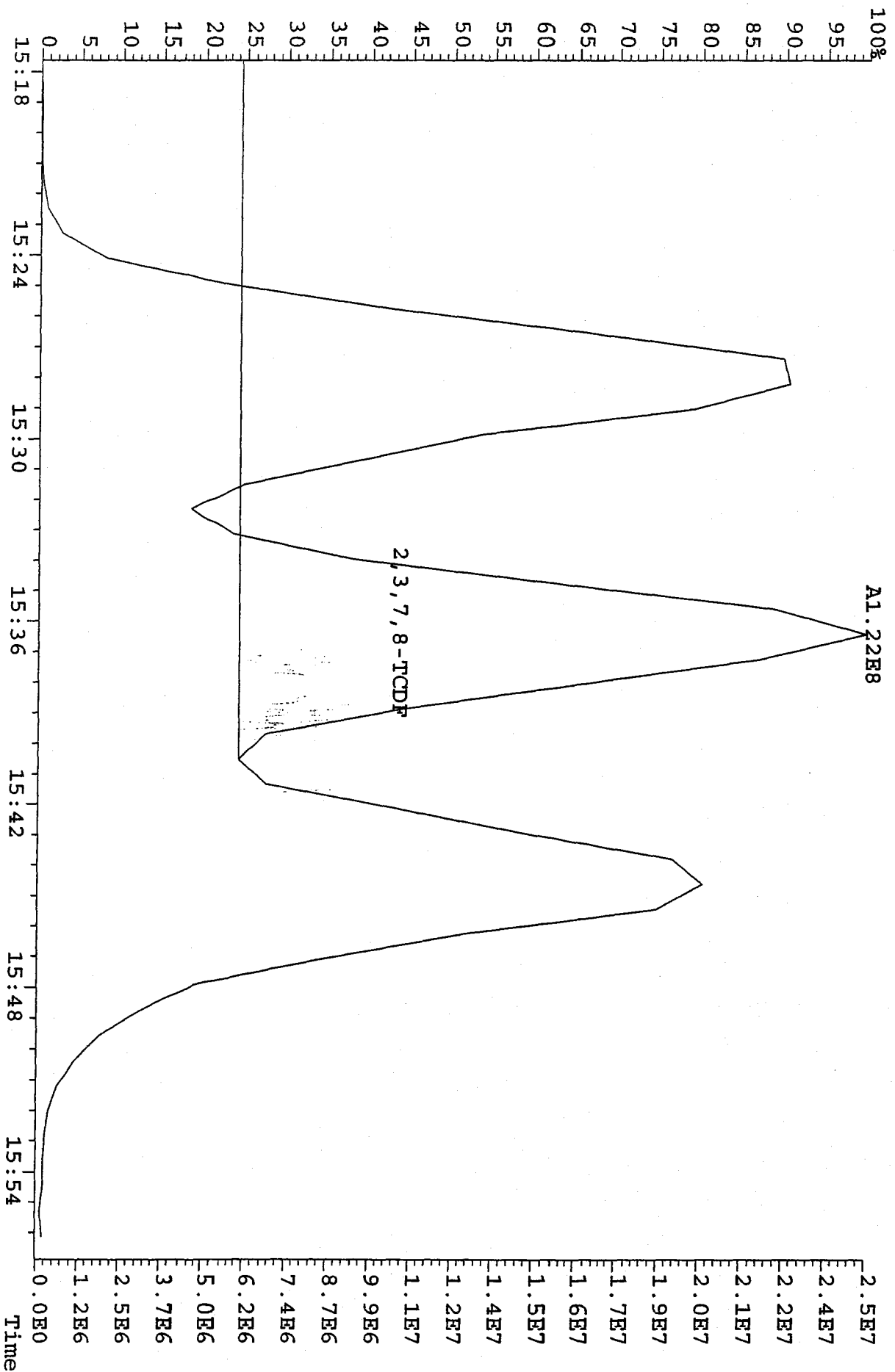
Peak Locate Examination:30-DEC-2009:15:15 File:30DE09B5D2
 Experiment:DB225 Function:1 Reference:PK



Peak Locate Examination: 31-DEC-2009:00:00 File: RESCHK30DF09B5D2
 Experiment: DB225 Function: 1 Reference: PFK



File: 30DDE09B5D2 #1-1083 Acq: 30-DEC-2009 15:15:55 GC FI+ Voltage SIR 70SE
305.8987 BSUB (128, 15, -3.0) Exp: DB225 Noise: 2828



Run: 210C095D2 Analyte: DB225 Cal: DB2251021095D2

ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	210C095D2										
				S3	S4	S5	S6	S7	RRF1	RRF2	RRF3	RRF4	RRF5	
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00	1.30	1.21	1.17	1.11	1.11	1.11
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11	1.30	1.21	1.17	1.11	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97	1.46	1.62	1.50	1.50	1.46	1.46
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46	1.46	1.62	1.50	1.50	1.46	1.46
37Cl-2,3,7,8-TCDD	2.705	0.282	10.4 %	2.28	2.70	2.80	3.06	2.68	2.28	2.70	2.80	3.06	2.68	2.68

SOLID, D 2216-90, Percent Moisture

Northgate Environmental Management, Inc.

Client Sample ID: RSAH3-1.5BR

General Chemistry

Lot-Sample #...: G9L120491-001 Work Order #...: LQ2K5 Matrix.....: SOLID
Date Sampled...: 12/11/09 Date Received...: 12/12/09
% Moisture.....: 3.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	3.0	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: RSAH3-1BR

General Chemistry

Lot-Sample #...: G9L120491-002 Work Order #...: LQ2K7 Matrix.....: SOLID
Date Sampled...: 12/11/09 Date Received...: 12/12/09
% Moisture.....: 2.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	2.9	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: RSAJ2-1.5BR

General Chemistry

Lot-Sample #...: G9L120491-003
Date Sampled...: 12/11/09
% Moisture.....: 5.8

Work Order #...: LQ2K8
Date Received..: 12/12/09

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	5.9	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: RSAJ2-1BR

General Chemistry

Lot-Sample #...: G9L120491-004
Date Sampled...: 12/11/09
% Moisture.....: 5.5

Work Order #...: LQ2K9
Date Received...: 12/12/09

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	5.5	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: RSAK3-1.5BR

General Chemistry

Lot-Sample #...: G9L120491-005
Date Sampled...: 12/11/09
% Moisture.....: 5.4

Work Order #...: LQ2LA
Date Received...: 12/12/09

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	5.4	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: RSAK3-1BR

General Chemistry

Lot-Sample #...: G9L120491-006
Date Sampled...: 12/11/09
% Moisture.....: 5.3

Work Order #...: LQ2LC
Date Received...: 12/12/09

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	5.3	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: SA75-1.5BR

General Chemistry

Lot-Sample #...: G9L120491-007
Date Sampled...: 12/11/09
% Moisture.....: 7.4

Work Order #...: LQ2LD
Date Received...: 12/12/09

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	7.4	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: SA75-1BR

General Chemistry

Lot-Sample #...: G9L120491-008
Date Sampled...: 12/11/09
% Moisture.....: 5.9

Work Order #...: LQ2LE
Date Received...: 12/12/09

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	5.9	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

QC DATA ASSOCIATION SUMMARY

G9L120491

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	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
002	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
003	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
004	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
005	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
006	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
007	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
008	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
009	WATER	SW846 8290		9348326	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: G9L120491

Work Order #....: LQ2K5-SMP
LQ2K5-DUP

Matrix.....: SOLID

Date Sampled...: 12/11/09

Date Received...: 12/12/09

% Moisture.....: 3.0

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>		<u>RPD</u>	<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Moisture	3.0	3.1	%	3.2	(0-20)	ASTM D 2216-90	12/18-12/21/09	9352108
						SD Lot-Sample #: G9L120491-001		

Dilution Factor: 1

SOLID, 8290, Dioxins/Furans

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

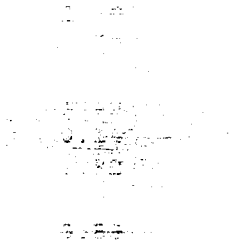
ms tune data

Run text: LRF9L-1-AA Sample text: LRF9L-1-AA :G9L210000-435B
 Run #8 Filename: 22DE09A4D5 S: 4 I: 1 Results: 22DE09A4D58290
 Acquired: 22-DEC-09 23:38:14 Processed: 23-DEC-09 04:40:59
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.00 g

AK
12/28/09

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	27372500	0.83 y	19:41	-	1.53	-	-	n
13C-2,3,7,8-TCDF	62981100	0.82 y	19:08	1.46	157.73	0.24	78.9	n
2,3,7,8-TCDF	1707783	0.79 y	19:09	1.27	✓4.26 <i>see 0225</i>	0.13	-	n
Total TCDF	8464926	1.14 n	16:23	1.27	21.11	0.13	-	n
13C-2,3,7,8-TCDD	37495700	0.80 y	19:54	0.92	148.42	0.33	74.2	n
2,3,7,8-TCDD	23121	0.37 n	19:54	1.23	0.10 <i>50</i>	0.07	-	n
Total TCDD	788348	0.59 n	14:30	1.23	3.43	0.07	-	n
37Cl-2,3,7,8-TCDD	47614800	1.00 y	19:56	2.52	69.15	0.00	86.4	n
13C-1,2,3,7,8-PeCDF	40119000	1.65 y	24:53	1.27	115.70	0.32	57.8	n
1,2,3,7,8-PeCDF	1083547	1.60 y	24:55	1.30	✓4.15 <i>5</i>	0.20	-	n
2,3,4,7,8-PeCDF	505095	1.56 y	26:27	1.25	2.01 <i>5</i>	0.21	-	n
Total F2 PeCDF	6747207	1.35 y	23:08	1.28	26.32	0.21	-	n
Total F1 PeCDF	319276	0.91 n	14:14	1.28	1.25	0.05	-	n
13C-1,2,3,7,8-PeCDD	23488450	1.62 y	27:14	0.77	111.10	0.01	55.5	n
1,2,3,7,8-PeCDD	20199	1.98 n	27:17	1.24	0.14	0.17	-	n
Total PeCDD	338246	0.45 n	23:31	1.24	2.32	0.17	-	n
13C-1,2,3,7,8,9-HxCDD	15568880	1.29 y	33:14	-	0.88	-	-	n
13C-1,2,3,4,7,8-HxCDF	28206540	0.51 y	32:06	1.19	152.60	0.01	76.3	n
1,2,3,4,7,8-HxCDF	1021631	1.05 n	32:07	1.31	5.54 <i>Q</i>	0.26	-	y
1,2,3,6,7,8-HxCDF	1149176	1.20 y	32:13	1.41	✓5.77	0.24	-	y
2,3,4,6,7,8-HxCDF	199580	1.15 y	32:45	1.33	1.06 <i>5</i>	0.26	-	y
1,2,3,7,8,9-HxCDF	136438	1.24 y	33:26	1.20	0.81 <i>5</i>	0.29	-	y
Total HxCDF	5354797	1.28 y	30:49	1.31	28.57	0.26	-	y
13C-1,2,3,6,7,8-HxCDD	19711470	1.28 y	32:57	0.75	169.55	0.02	84.8	n
1,2,3,4,7,8-HxCDD	29753	1.09 y	32:55	1.24	0.24 <i>5</i>	0.15	-	y
1,2,3,6,7,8-HxCDD	52141	1.70 n	32:58	1.48	0.36 <i>50</i>	0.13	-	y
1,2,3,7,8,9-HxCDD	68025	1.66 n	33:14	1.47	0.47 <i>L</i>	0.13	-	n
Total HxCDD	399424	1.21 y	31:34	1.40	2.88	0.14	-	y
13C-1,2,3,4,6,7,8-HpCDF	23836310	0.43 y	34:44	0.91	167.61	1.67	83.8	n
1,2,3,4,6,7,8-HpCDF	2654060	1.02 y	34:45	1.59	✓13.96	0.25	-	n
1,2,3,4,7,8,9-HpCDF	898506	1.01 y	35:54	1.33	✓5.66	0.30	-	n
Total HpCDF	5146910	1.02 y	34:45	1.46	28.77	0.27	-	n
13C-1,2,3,4,6,7,8-HpCDD	17679480	1.02 y	35:33	0.71	159.08	0.64	79.5	n
1,2,3,4,6,7,8-HpCDD	189081	1.07 y	35:35	1.31	1.64 <i>5</i>	0.05	-	n
Total HpCDD	317589	0.40 n	34:37	1.31	2.75	0.05	-	n
13C-OCDD	29566000	0.88 y	38:06	0.61	313.43	0.71	78.4	n

OCDF	3595600	0.83	y	38:13	1.51	✓ 32.23	0.23	-	n
OCDD	201617	0.85	y	38:06	1.19	2.29 ↗	0.01	-	n



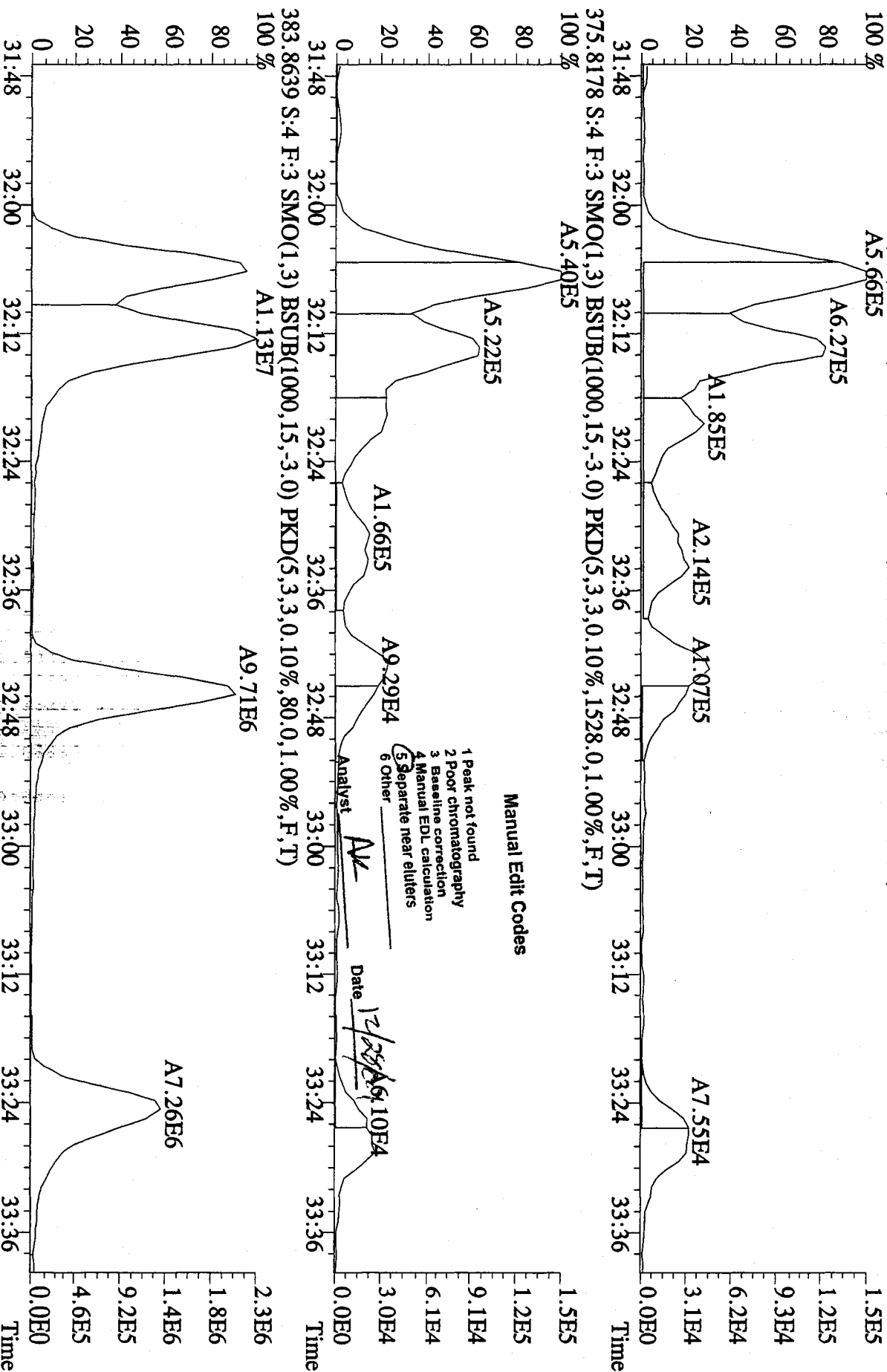
Run text: LRF9L-1-AA Sample text: LRF9L-1-AA :G9L210000-435B
 Run #8 Filename: 22DE09A4D5 S: 4 I: 1 Results: 22DE09A4D58290
 Acquired: 22-DEC-09 23:38:14 Processed: 23-DEC-09 04:40:59
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.00007g

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	27372500	0.83 y	19:41	-	1.53	-	-	n
13C-2,3,7,8-TCDF	62981100	0.82 y	19:08	1.46	157.73	0.24	78.9	n
2,3,7,8-TCDF	1707783	0.79 y	19:09	1.27	4.26	0.13	-	n
Total TCDF	8464926	1.14 n	16:23	1.27	21.11	0.13	-	n
13C-2,3,7,8-TCDD	37495700	0.80 y	19:54	0.92	148.42	0.33	74.2	n
2,3,7,8-TCDD	23121	0.37 n	19:54	1.23	0.10	0.07	-	n
Total TCDD	788348	0.59 n	14:30	1.23	3.43	0.07	-	n
37Cl-2,3,7,8-TCDD	47614800	1.00 y	19:56	2.52	69.15	0.00	86.4	n
13C-1,2,3,7,8-PeCDF	40119000	1.65 y	24:53	1.27	115.70	0.32	57.8	n
1,2,3,7,8-PeCDF	1083547	1.60 y	24:55	1.30	4.15	0.20	-	n
2,3,4,7,8-PeCDF	505095	1.56 y	26:27	1.25	2.01	0.21	-	n
Total F2 PeCDF	6747207	1.35 y	23:08	1.28	26.32	0.21	-	n
Total F1 PeCDF	319276	0.91 n	14:14	1.28	1.25	0.05	-	n
13C-1,2,3,7,8-PeCDD	23488450	1.62 y	27:14	0.77	111.10	0.01	55.5	n
1,2,3,7,8-PeCDD	20199	1.98 n	27:17	1.24	0.14	0.17	-	n
Total PeCDD	338246	0.45 n	23:31	1.24	2.32	0.17	-	n
13C-1,2,3,7,8,9-HxCDD	15568880	1.29 y	33:14	-	0.88	-	-	n
13C-1,2,3,4,7,8-HxCDF	28206540	0.51 y	32:06	1.19	152.60	0.01	76.3	n
1,2,3,4,7,8-HxCDF	1546909	1.06 y	32:07	1.31	8.39	0.26	-	n
1,2,3,6,7,8-HxCDF	1132649	0.90 n	32:13	1.41	5.69	0.24	-	n
2,3,4,6,7,8-HxCDF	515116	1.15 y	32:43	1.33	2.74	0.26	-	n
1,2,3,7,8,9-HxCDF	382652	1.26 y	33:27	1.20	2.27	0.29	-	n
Total HxCDF	6425298	1.28 y	30:49	1.31	34.47	0.26	-	n
13C-1,2,3,6,7,8-HxCDD	19711470	1.28 y	32:57	0.75	169.55	0.02	84.8	n
1,2,3,4,7,8-HxCDD	52142	2.34 n	32:58	1.24	0.43	0.15	-	n
1,2,3,6,7,8-HxCDD	52142	2.34 n	32:58	1.48	0.36	0.13	-	n
1,2,3,7,8,9-HxCDD	68025	1.66 n	33:14	1.47	0.47	0.13	-	n
Total HxCDD	369671	1.21 y	31:34	1.40	2.64	0.14	-	n
13C-1,2,3,4,6,7,8-HpCDF	23836310	0.43 y	34:44	0.91	167.61	1.67	83.8	n
1,2,3,4,6,7,8-HpCDF	2654060	1.02 y	34:45	1.59	13.96	0.25	-	n
1,2,3,4,7,8,9-HpCDF	898506	1.01 y	35:54	1.33	5.66	0.30	-	n
Total HpCDF	5146910	1.02 y	34:45	1.46	28.77	0.27	-	n
13C-1,2,3,4,6,7,8-HpCDD	17679480	1.02 y	35:33	0.71	159.08	0.64	79.5	n
1,2,3,4,6,7,8-HpCDD	189081	1.07 y	35:35	1.31	1.64	0.05	-	n
Total HpCDD	317589	0.40 n	34:37	1.31	2.75	0.05	-	n
13C-OCDD	29566000	0.88 y	38:06	0.61	313.43	0.71	78.4	n
OCDF	3595600	0.83 y	38:13	1.51	32.23	0.23	-	n
OCDD	201617	0.85 y	38:06	1.19	2.29	0.01	-	n

File:22DDE09A4D5 #1-314 Acq:22-DEC-2009 23:38:14 GC EI + Voltage SIR Autospec-UltimaE

Sample#4 Text:LRFL-1-AA :G9L210000-43 Exp:DIOXIN

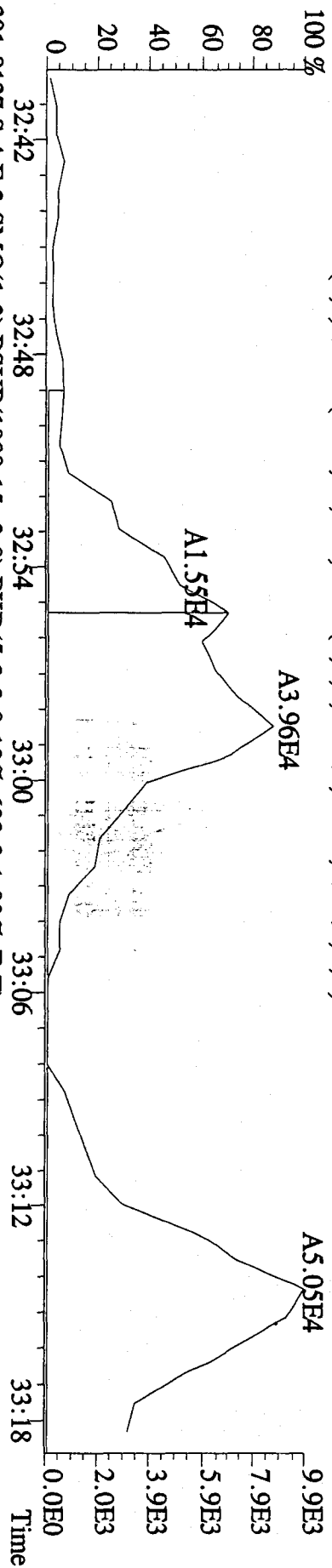
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2112.0,1.00%,F,T)



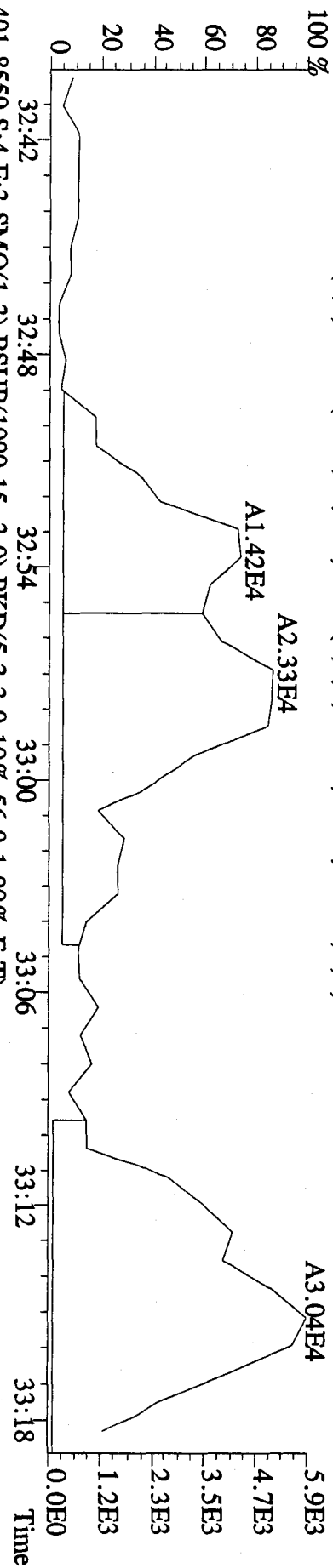
File: 22DE09A4D5 #1-314 Acq: 22-DEC-2009 23:38:14 GC FI + Voltage SIR Autospec-Ultimate

Sample#4 Text: LRF9L-1-AA : G91210000-43 Exp: DIOXIN

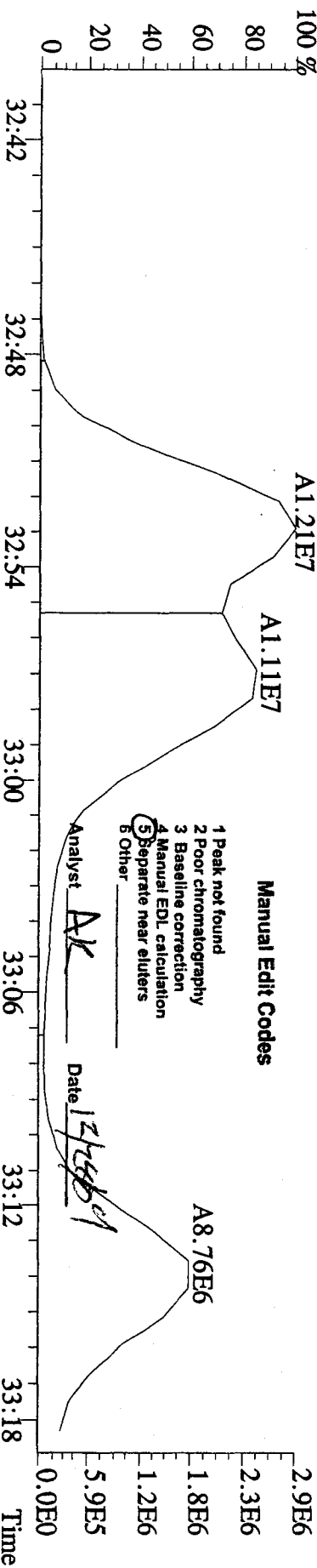
389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,720.0,1.00%,F,T)



391.8127 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,692.0,1.00%,F,T)



401.8559 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)



Manual Edit Codes

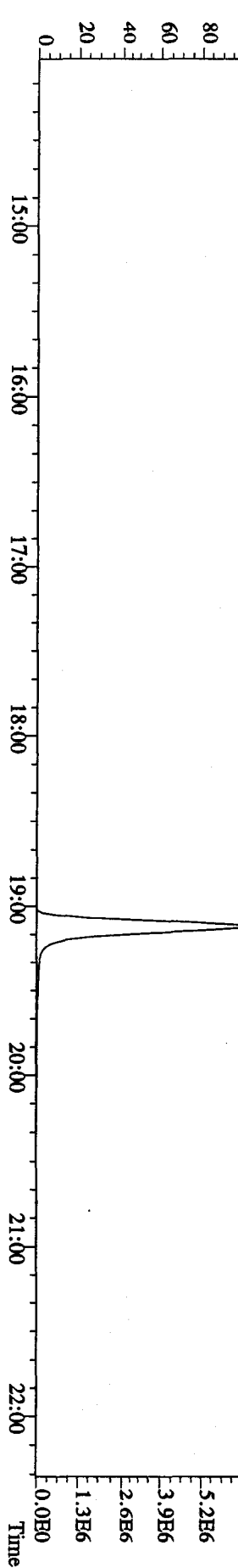
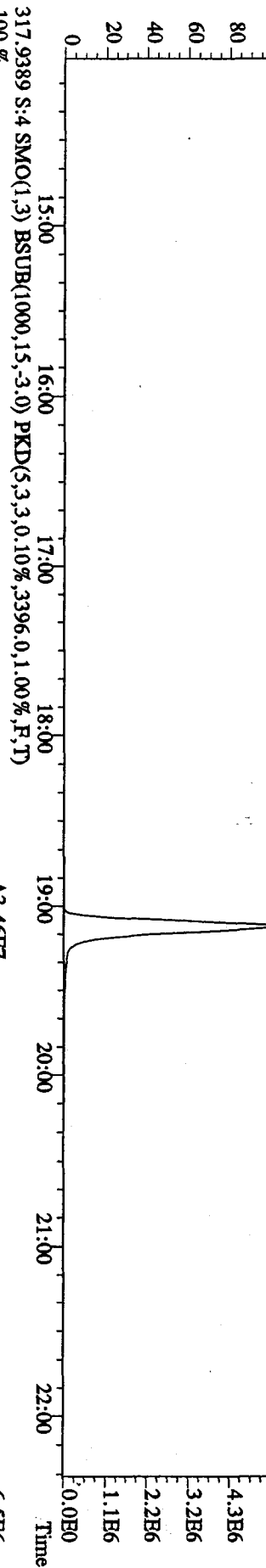
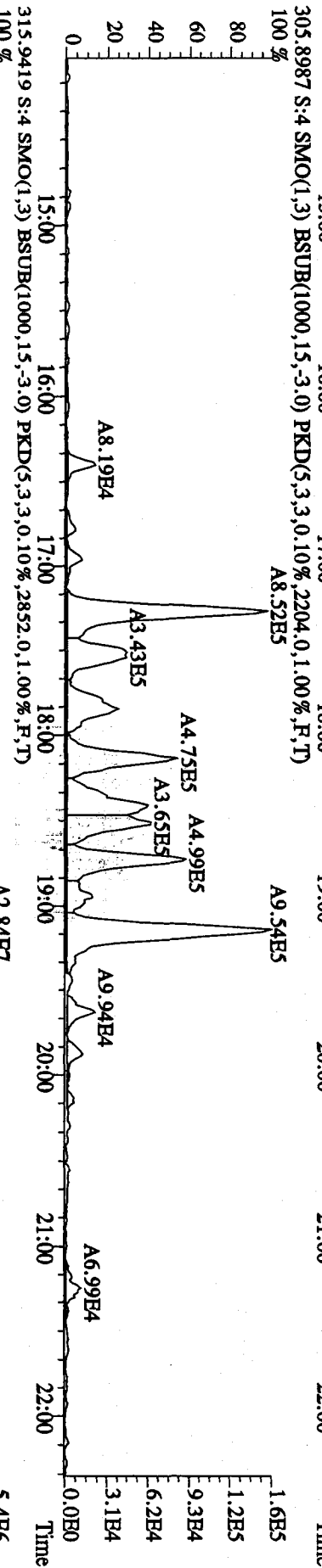
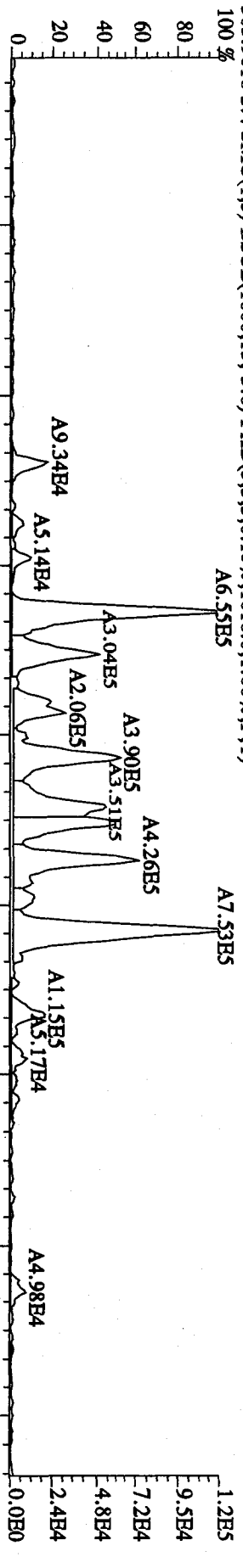
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst: AK Date: 12/28/09

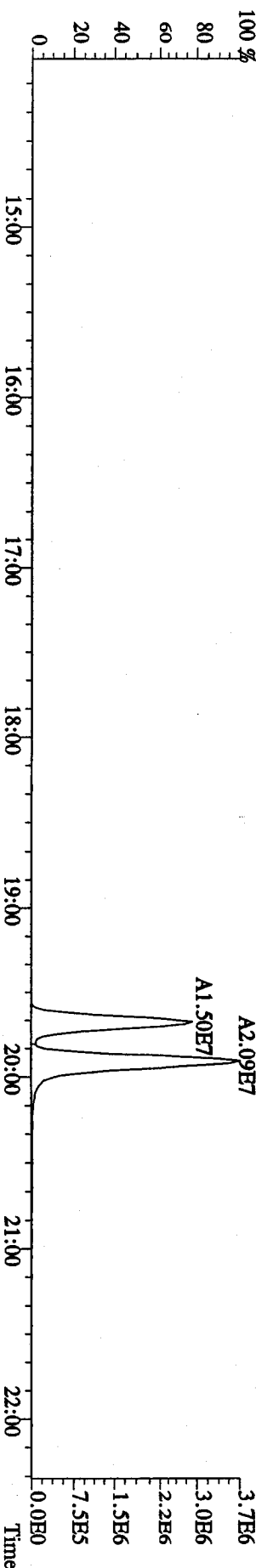
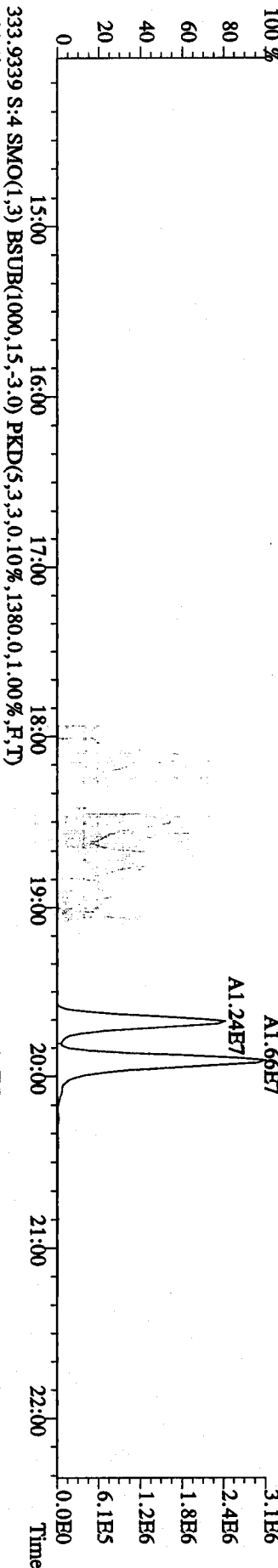
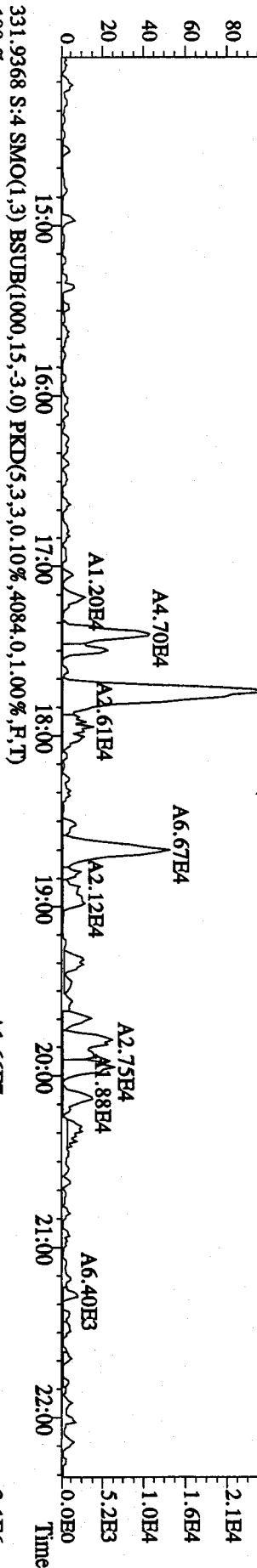
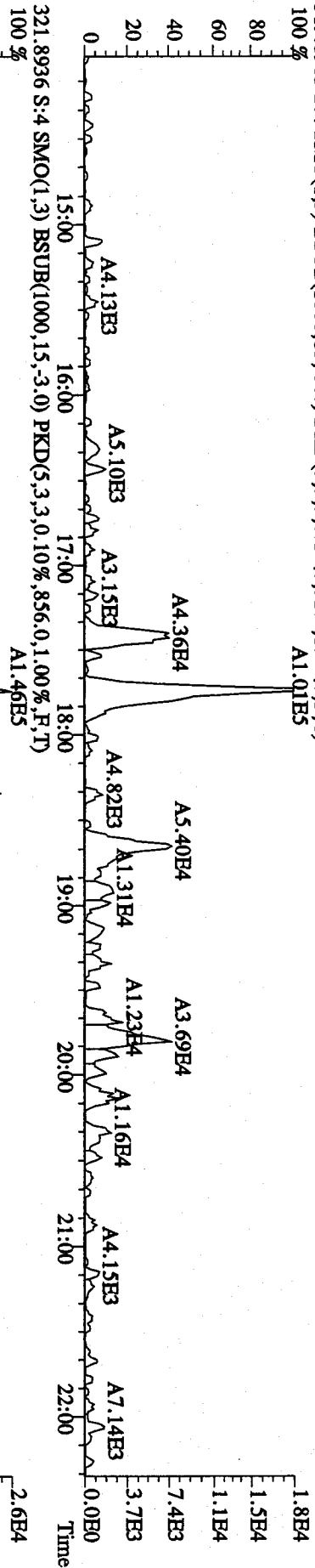
File:22DDE09A4D5 #1-578 Acq:22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-UltimaE

Sample#4 Text:LRP9L-1-AA :G9L210000-435B Exp:DIOXIN

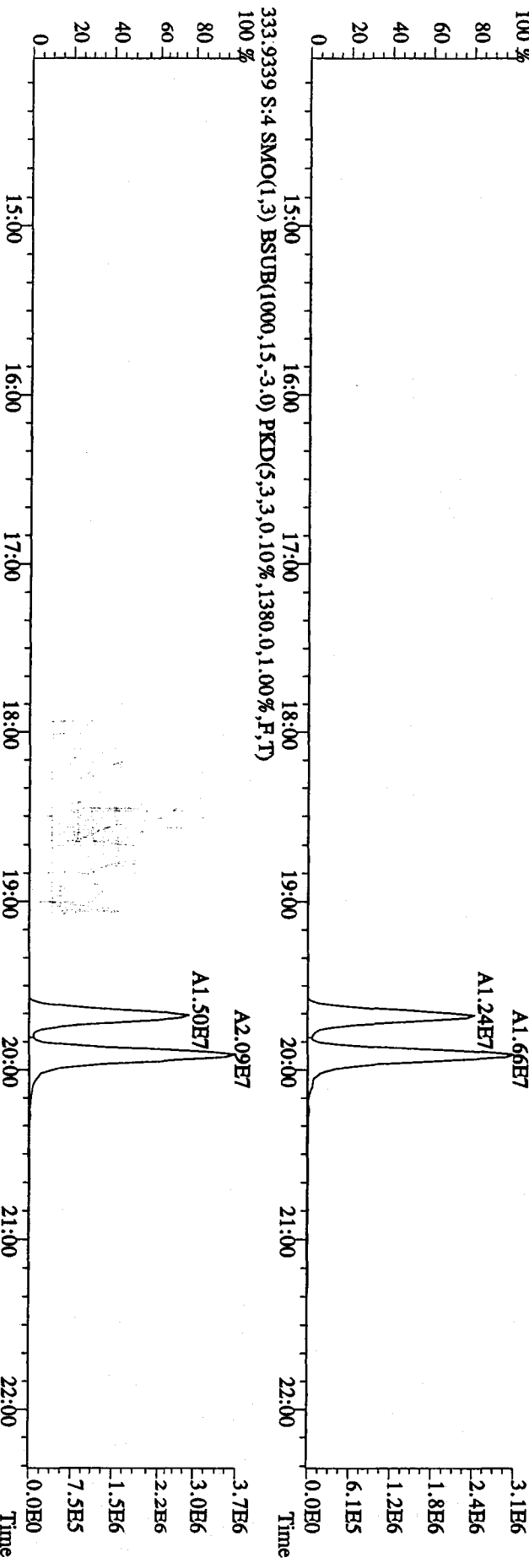
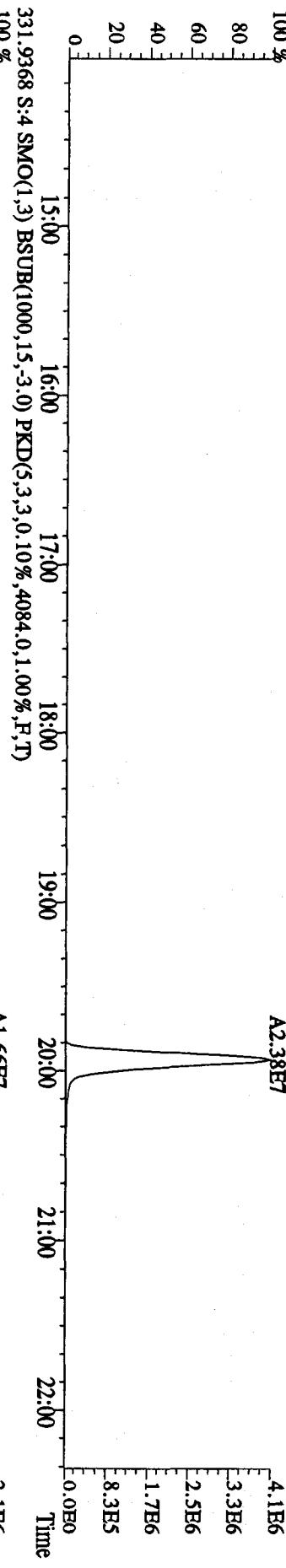
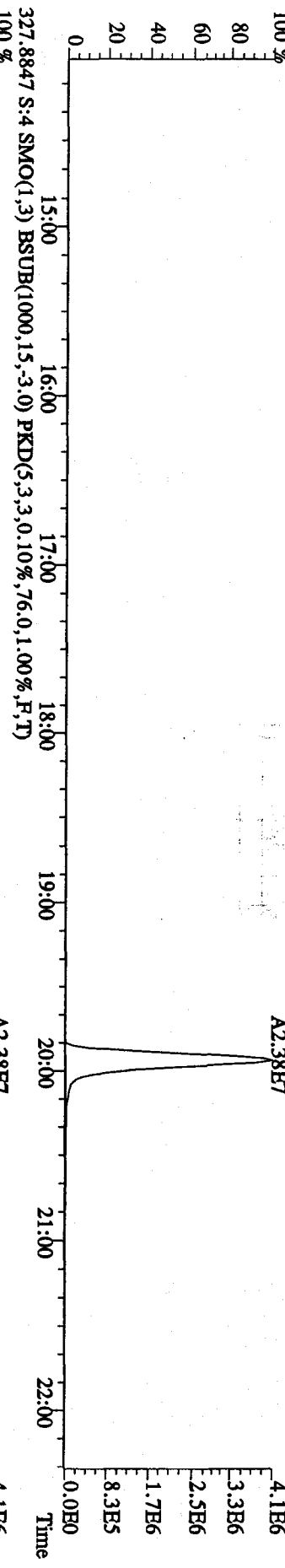
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1016,0,1,00%,F,T)



File:22DE09A4D5 #1-578 Acq:22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:LRP9L-1-AA :G9L210000-435B Exp:DIOXIN
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,52.0,1.00%,F,T)
 100 % A1.01E5



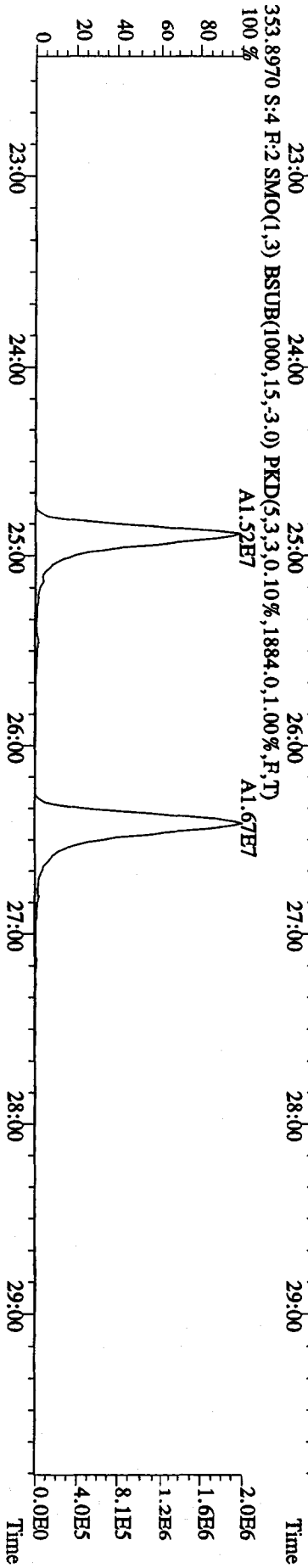
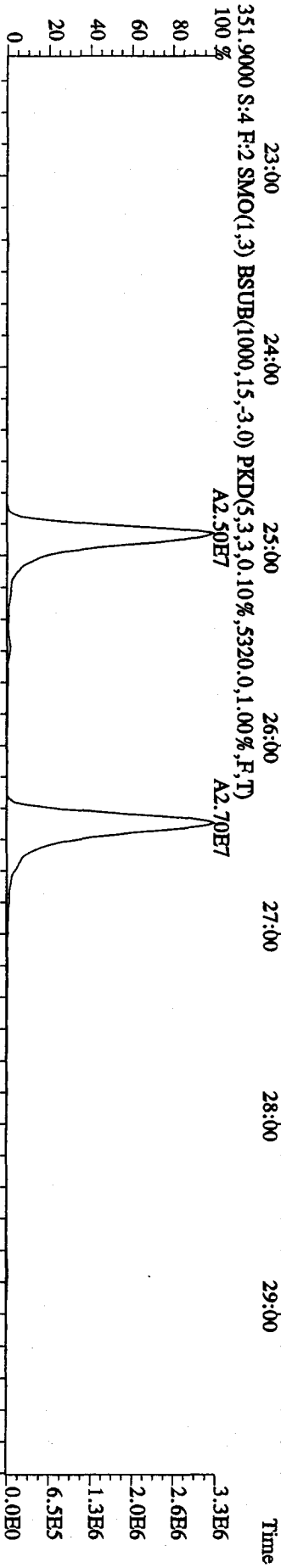
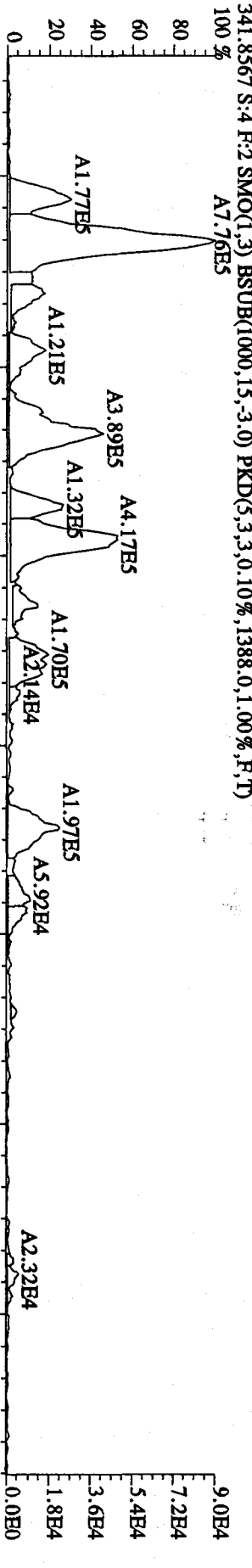
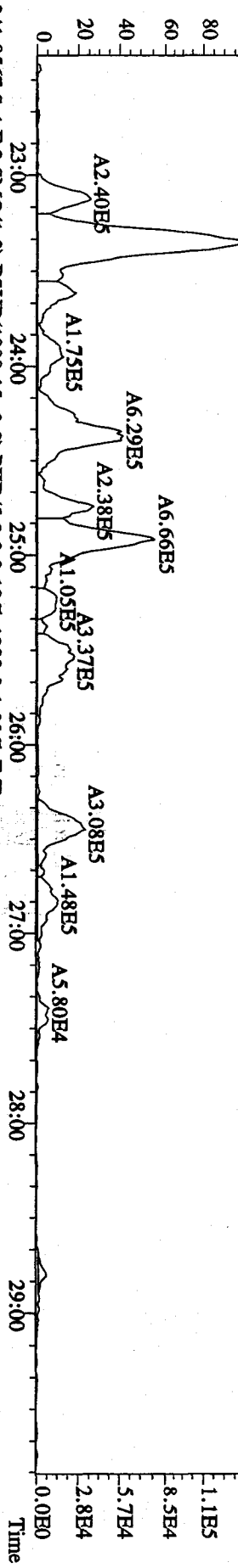
File:22DE09A4D5 #1-578 Acq:22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:LRP9L-1-AA :G9L210000-435B Exp:DIOXIN
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76.0,1.00%,F,T)



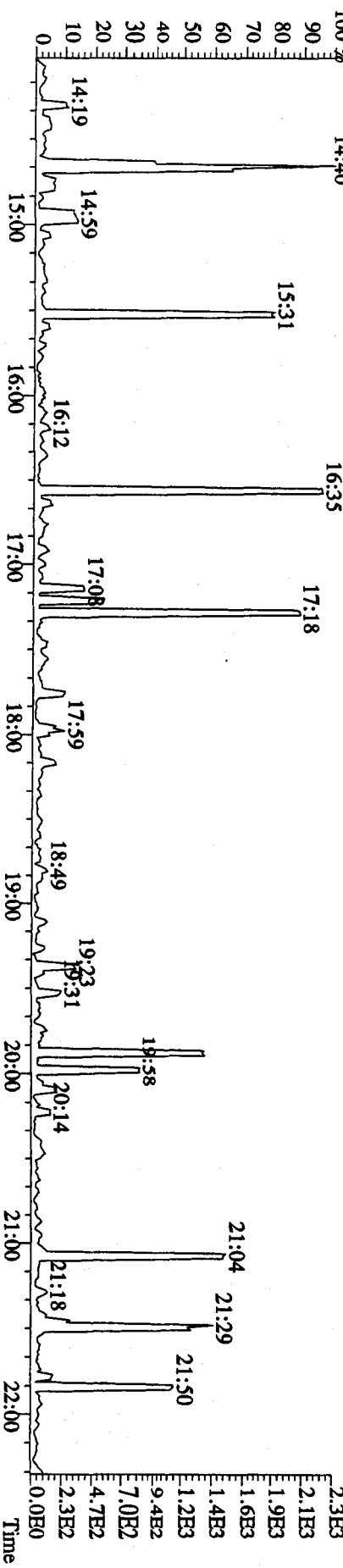
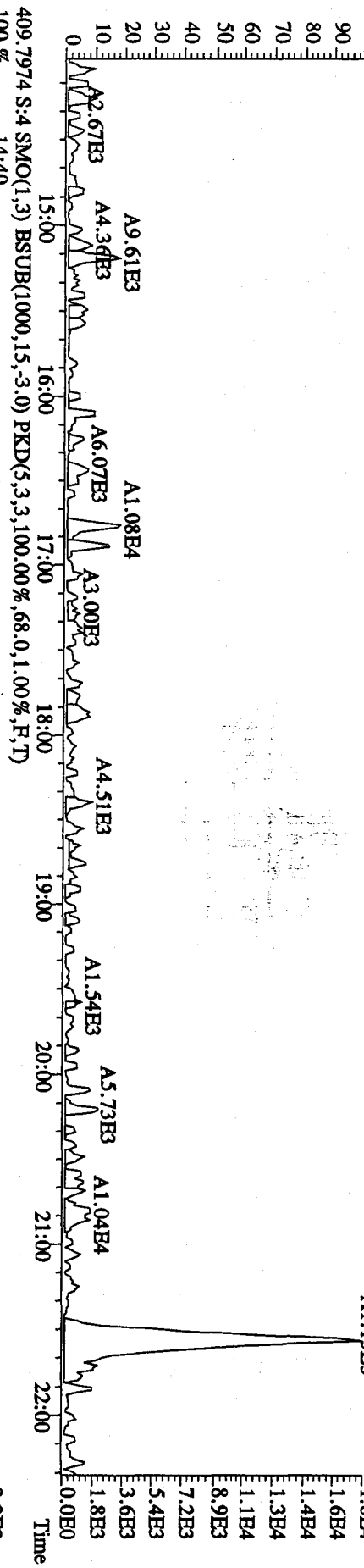
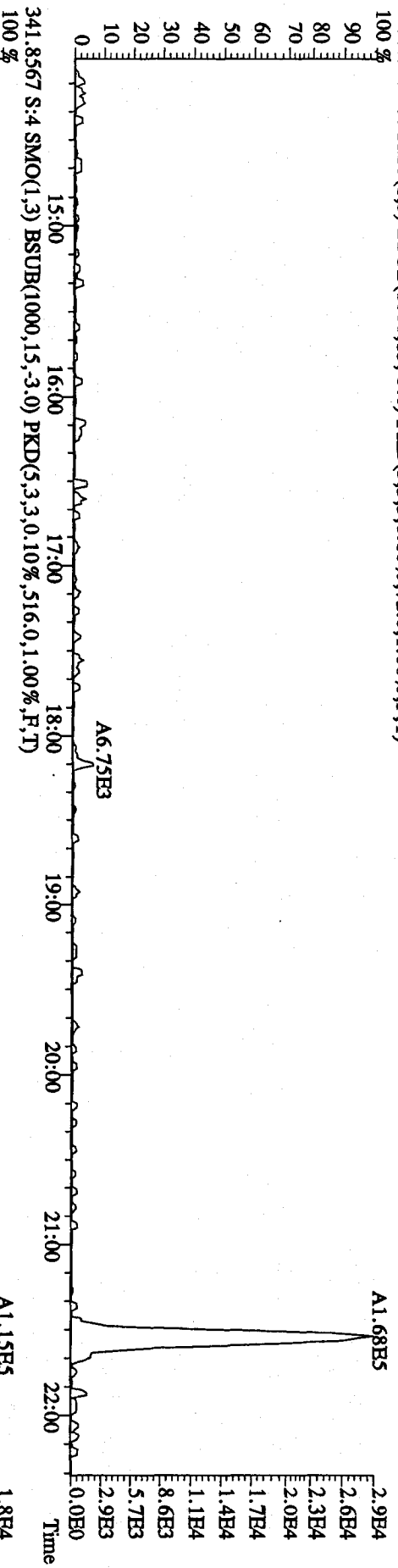
File:22DE09A4D5 #1-596 Acq:22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-Ultimate

Sample#4 Text:LRH9L-1-AA :G9L210000-435B Exp:DIOXIN

339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,924,0,1,00%,F,T)

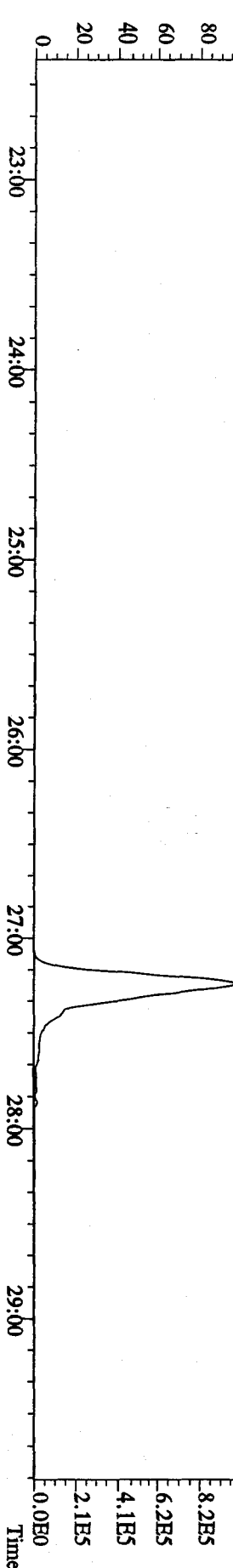
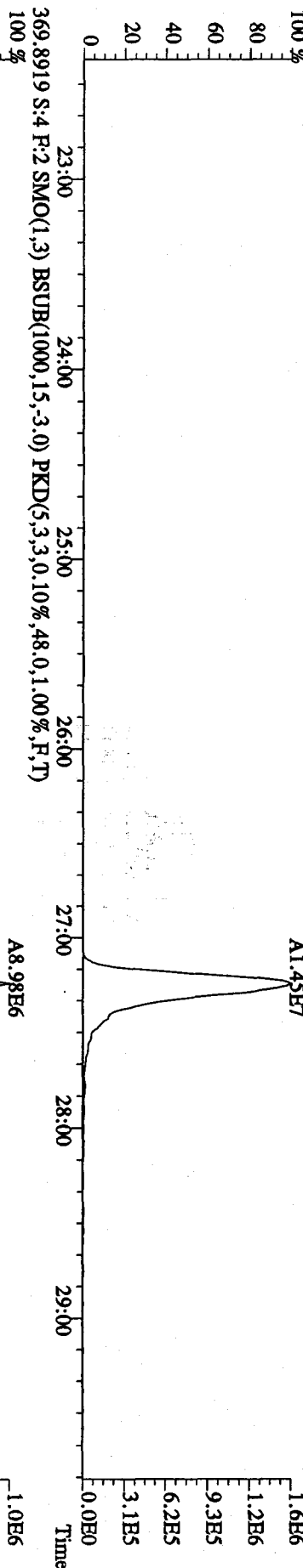
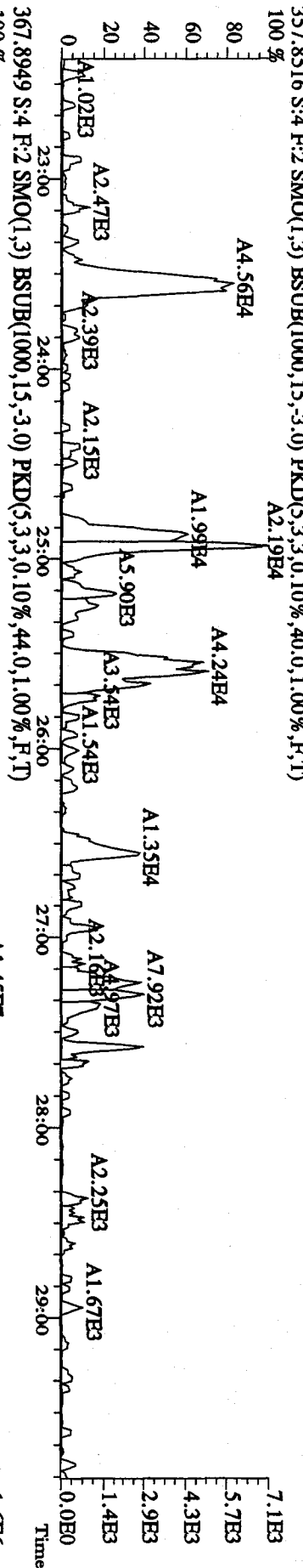
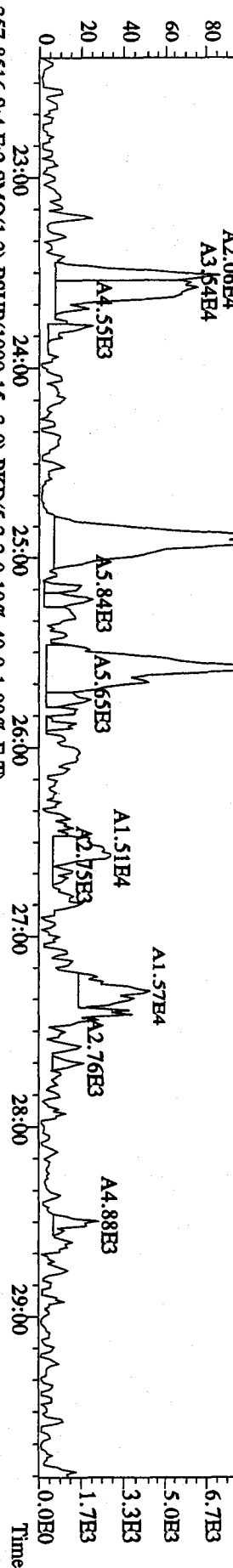


File: 22DB09A4D5 #1-578 Acq: 22-DEC-2009 23:38:14 GC EL+ Voltage SIR Autospec-UltimaE
 Sample#4 Text: LRF9L-1-AA :G9L210000-435B Exp: DIOXIN
 339 8597 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,72.0,1.00%,F,T)

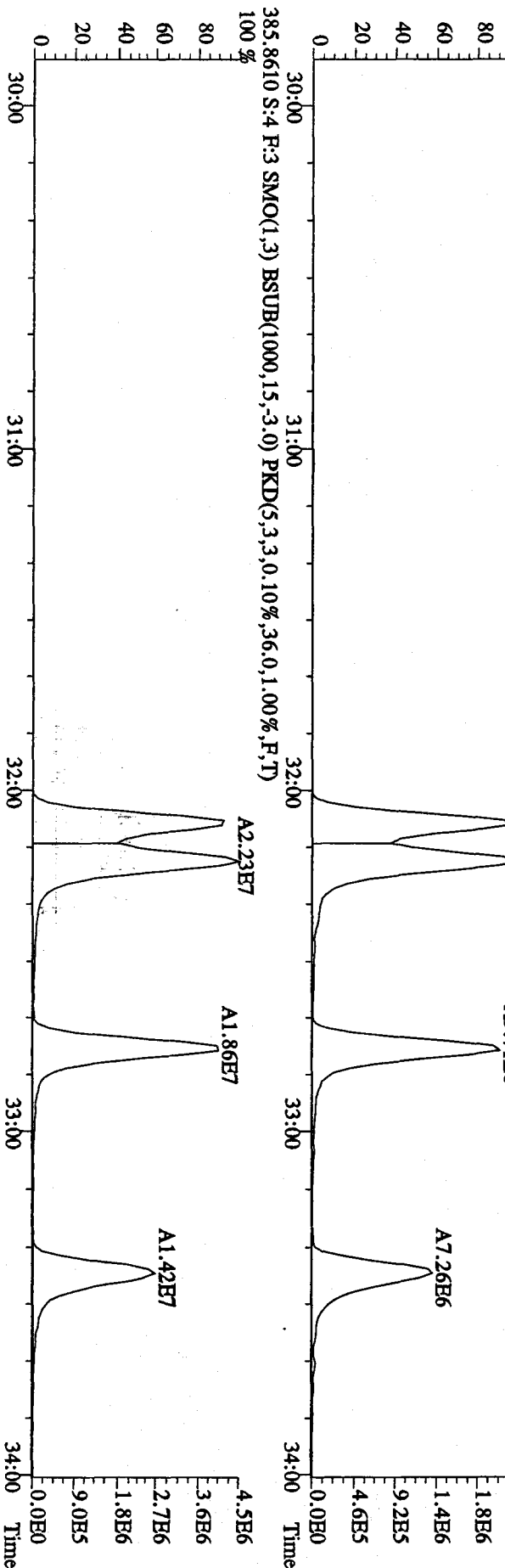
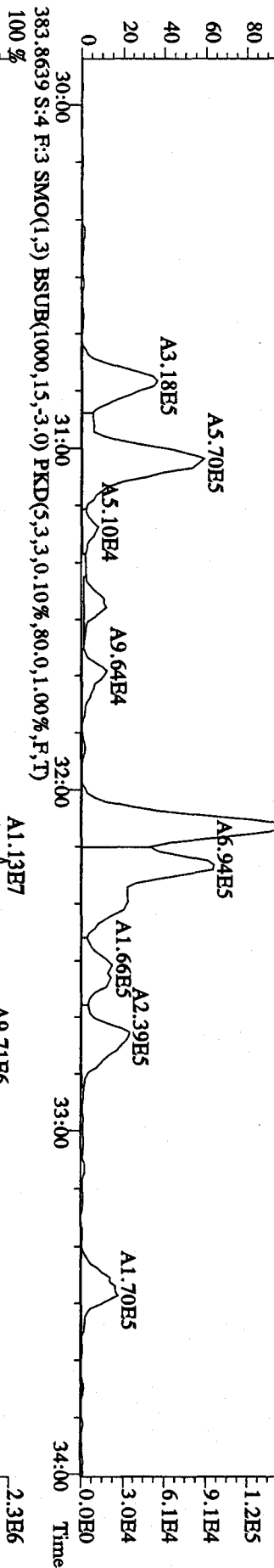
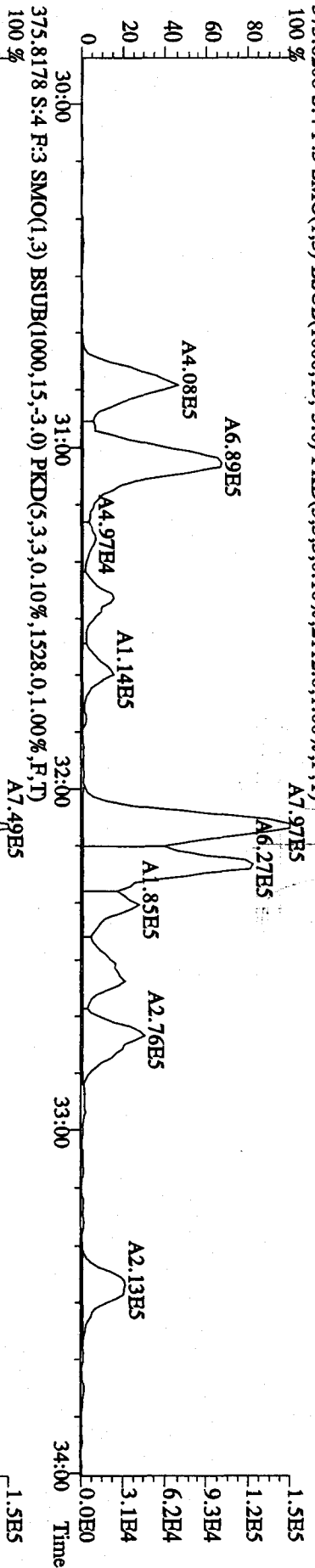


Sample#4 Text:LRP9L-1-AA :G9L210000-435B Exp:DIOXIN

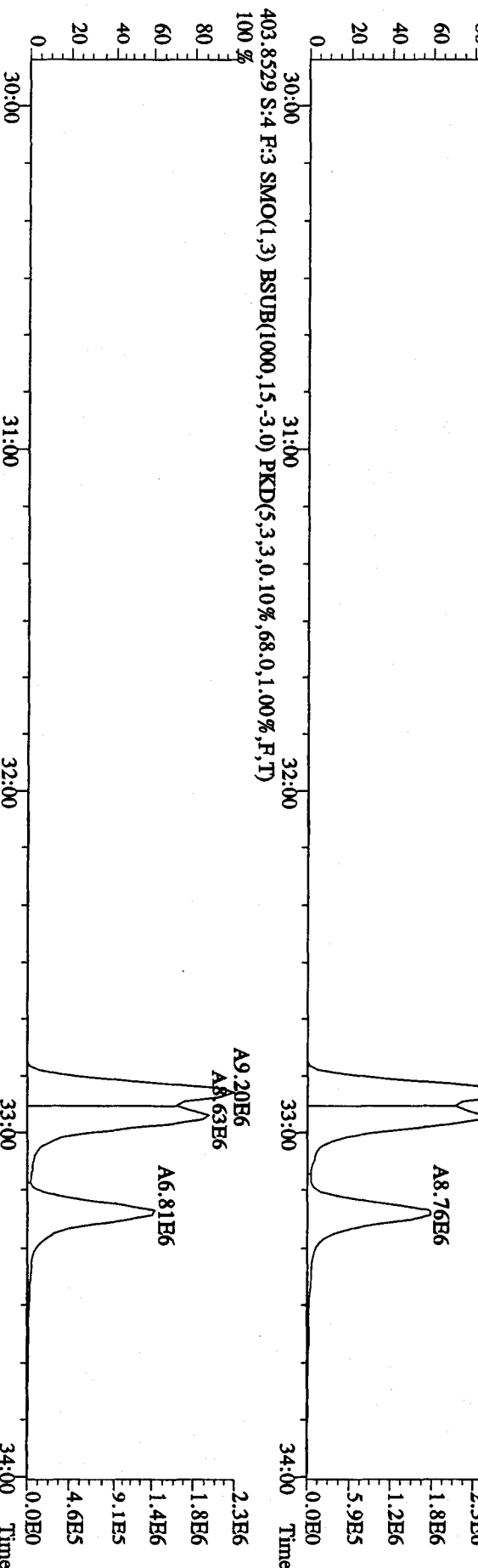
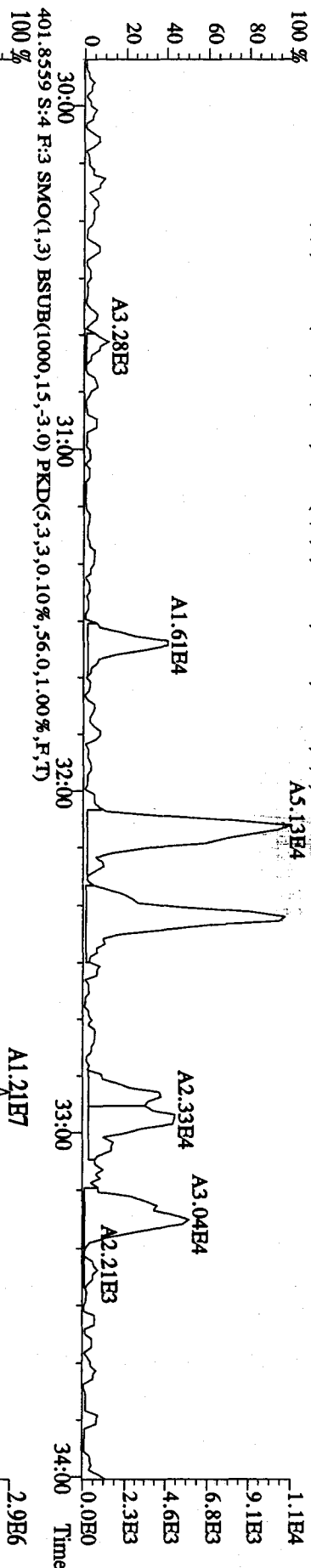
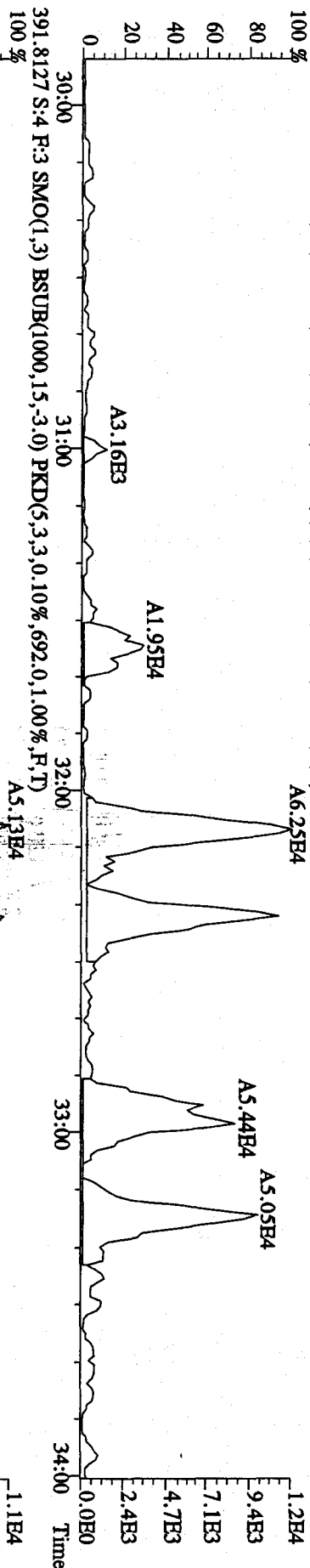
355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,868,0.1,0.00%,F,T)



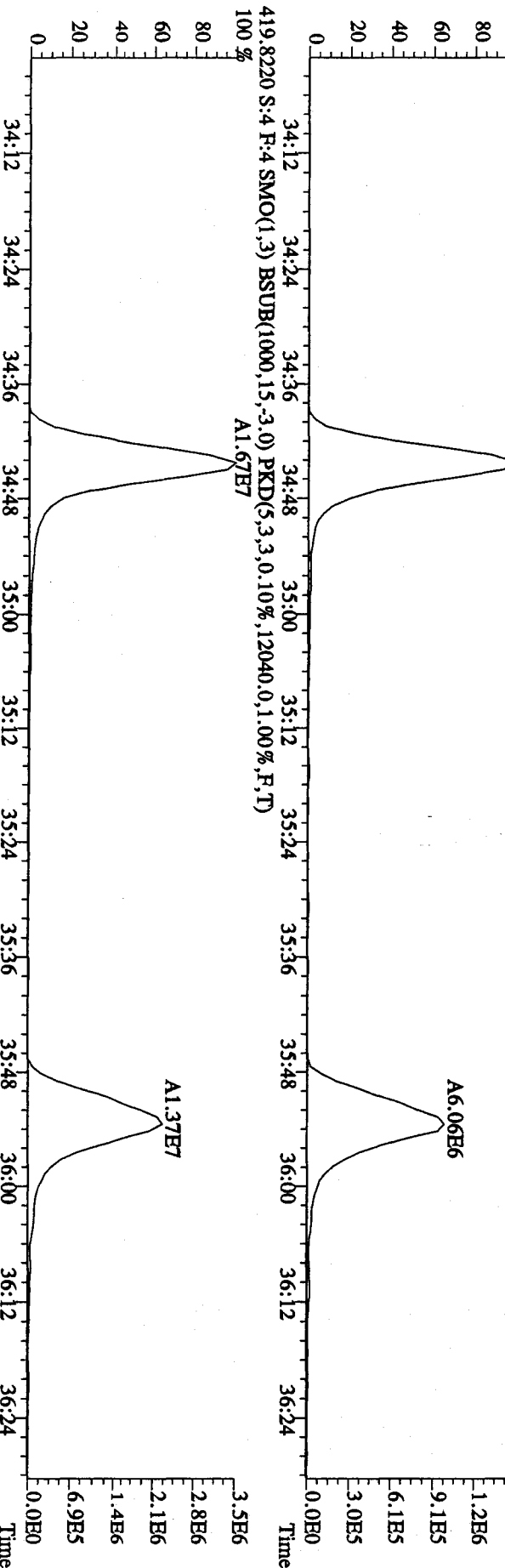
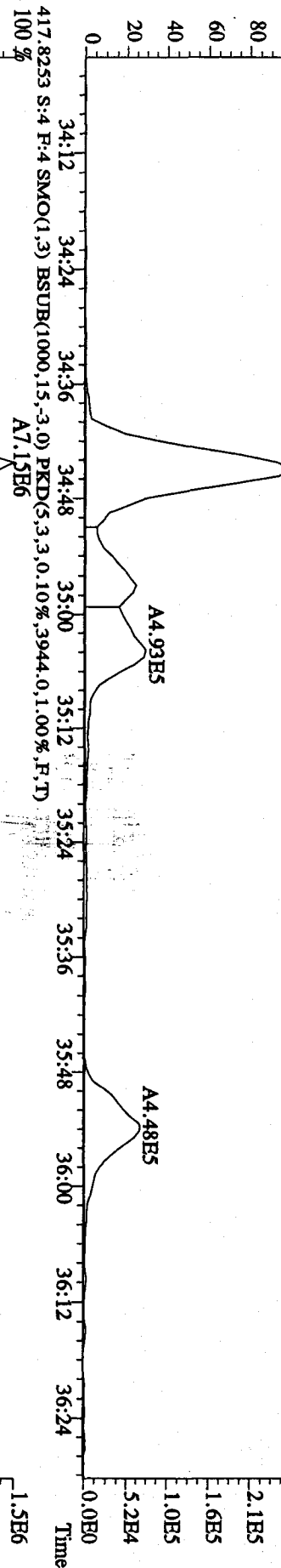
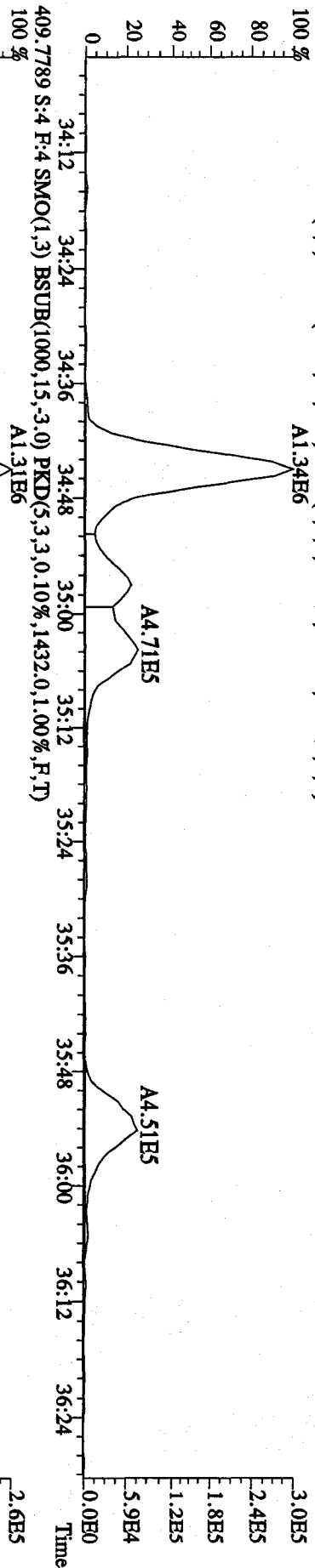
File:22DE09A4D5 #1-314 Acq:22-DEC-2009 23:38:14 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:LRP9L-1-AA :G9L210000-435B Exp:DIOXIN
 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2112.0,1.00%,F,T) A7.97E5



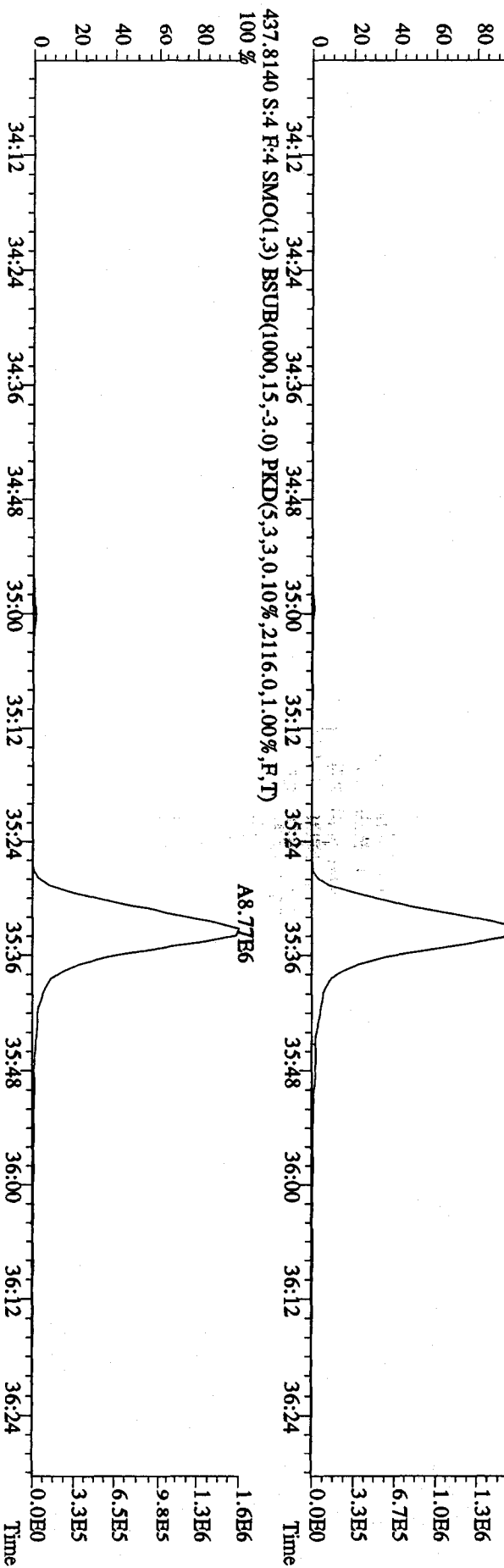
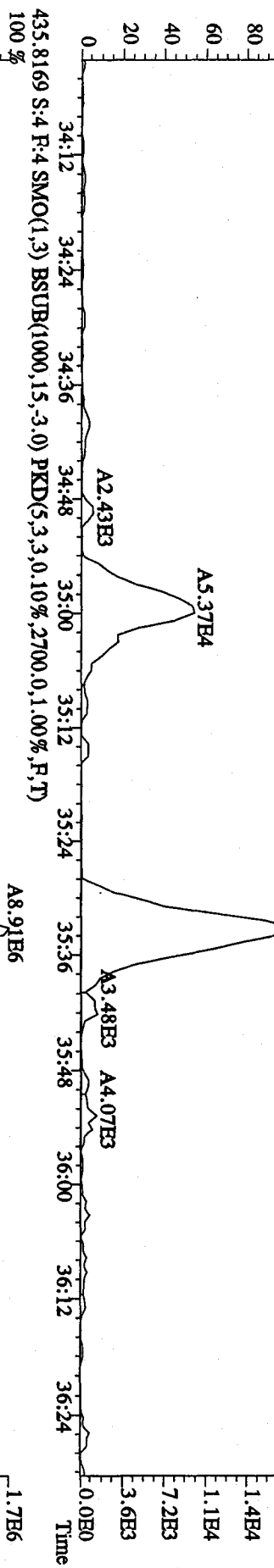
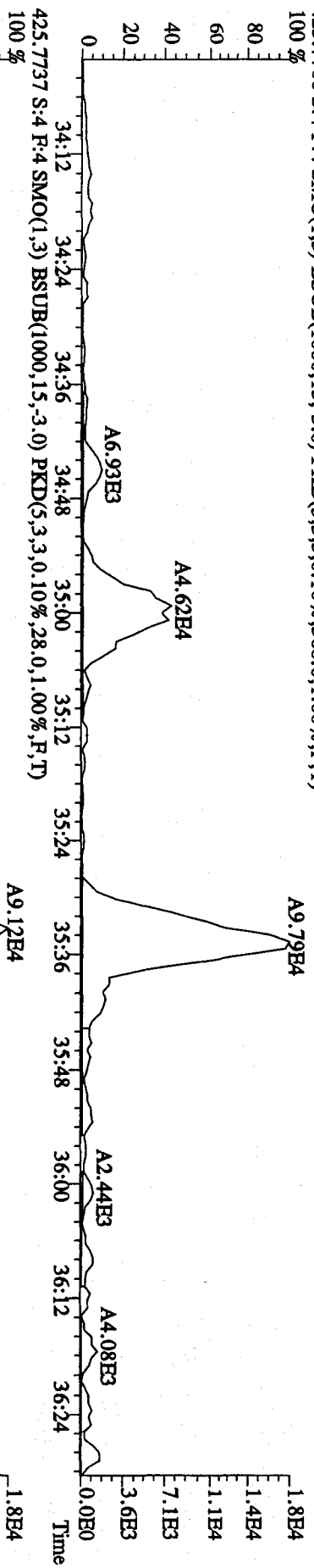
File: 22DDE09A4D5 #1-314 Acq: 22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text: LRP9L-1-AA : G9L210000-435B Exp: DIOXIN
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,720,0,1.00%,F,T)



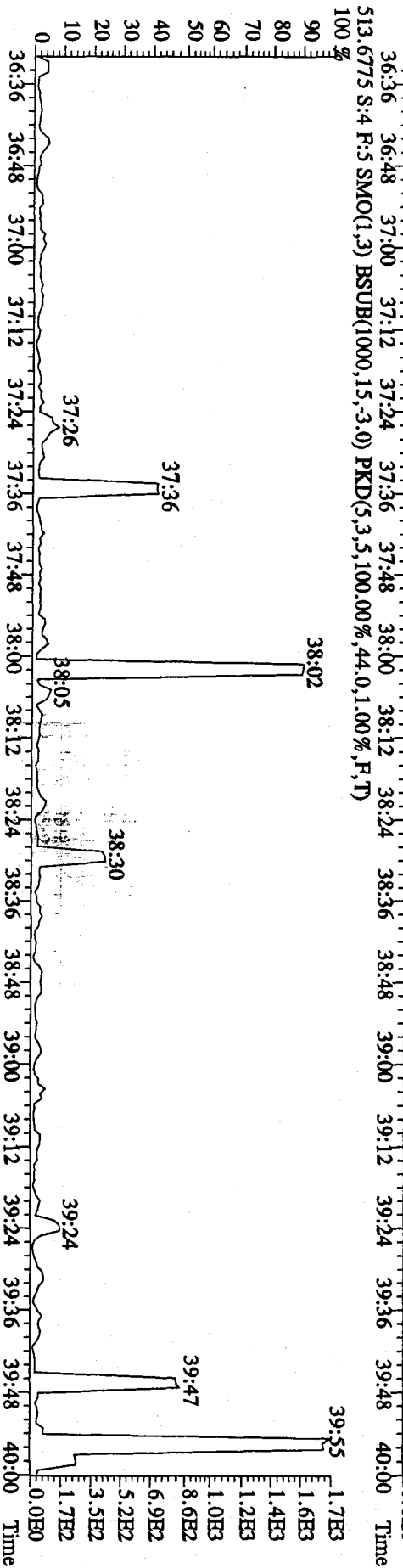
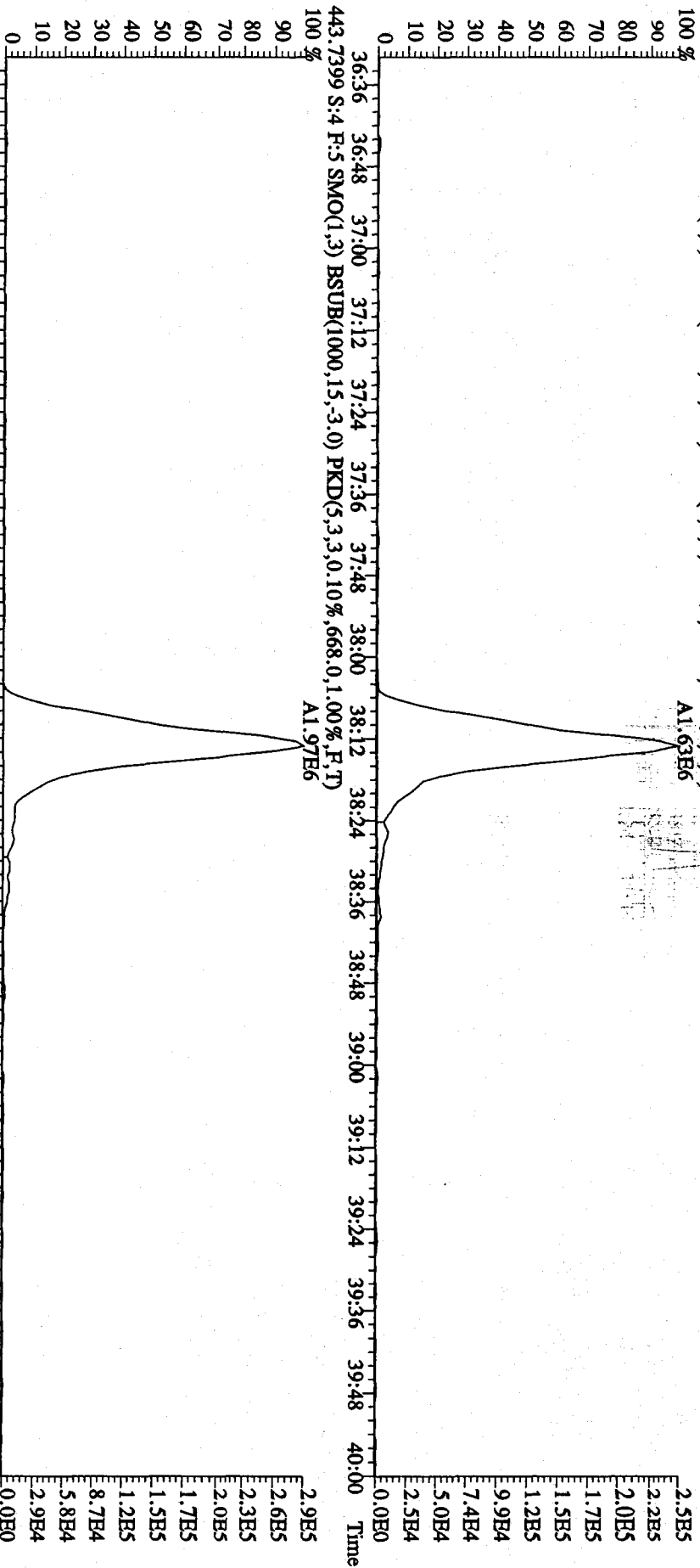
File:22DE09A4D5 #1-198 Acq:22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text:LRP9L-1-AA :G9L210000-435B Exp:DIOXIN
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1844.0,1.00%,F,T)
 100%



File:22DE09A4D5 #1-198 Acq:22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text:LRP9L-1-AA :G9L210000-435B Exp:DIOXIN
 423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,28,0,1.00%,F,T)
 100%



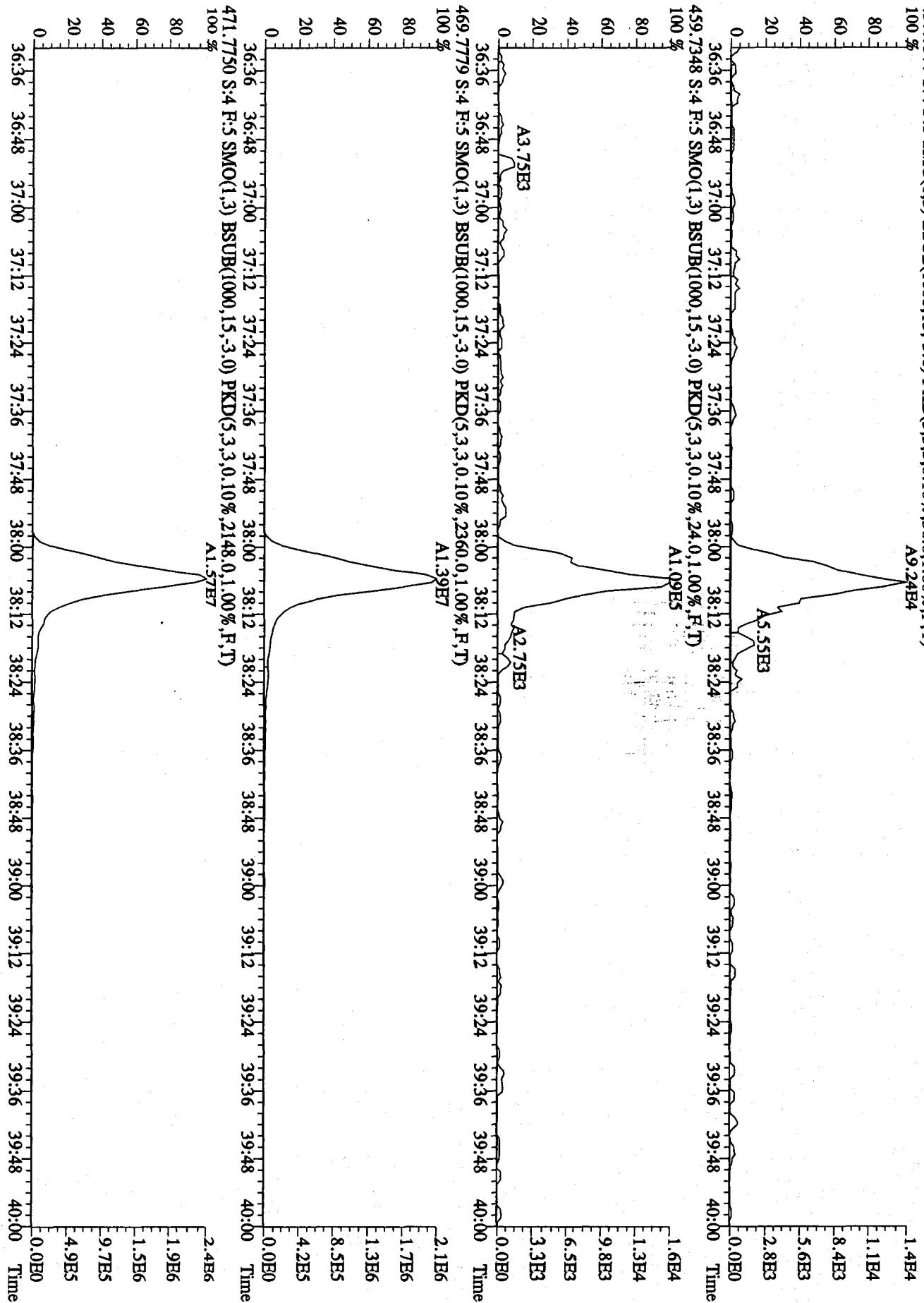
File: 22DE09A4D5 #1-281 Acq: 22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text: LRF9L-1-AA :G9L210000-435B Exp: DIOXIN
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,632.0,1.00%,F,T) A1.63E6
 100%

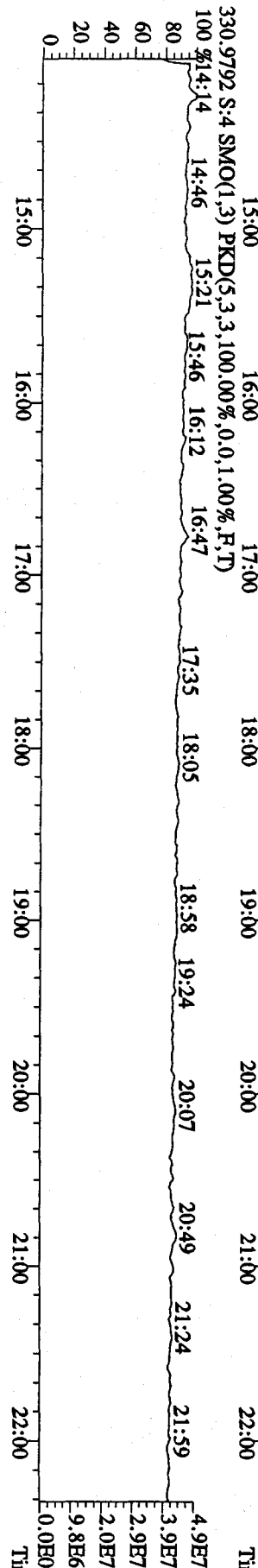
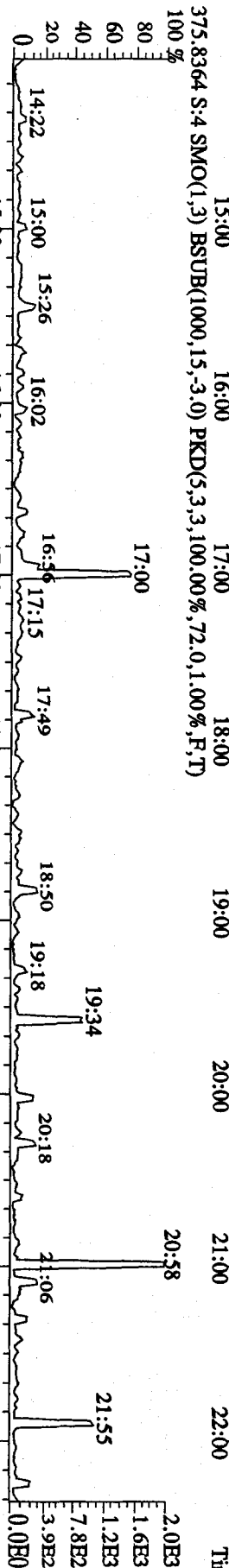
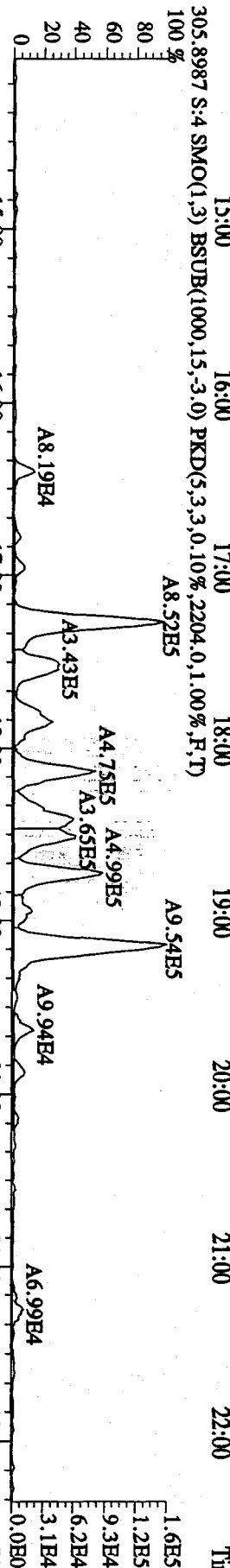
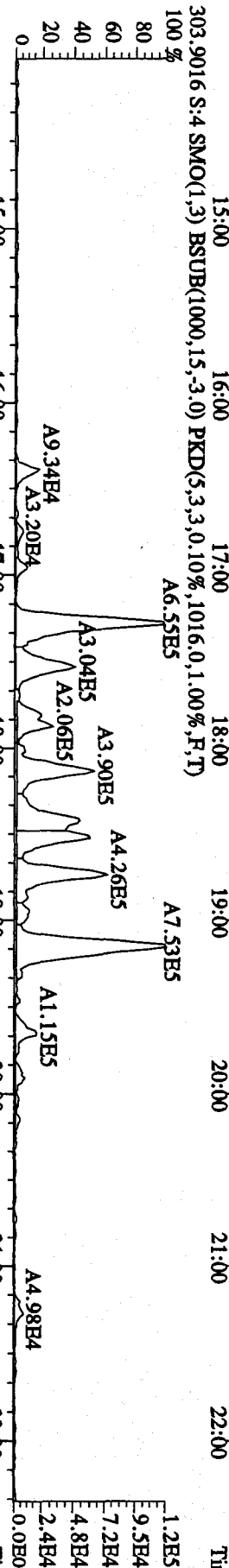
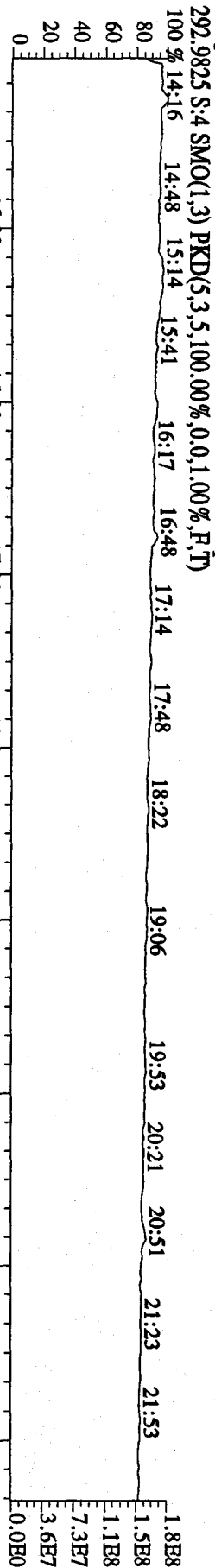


File:22DE09A4D5 #1-281 Acq:22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-Ultimate

Exp:DIOXIN

Sample#4 Tex:LRP9L-1-AA :G9L210000-435B
457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,36,0,1.00%,F,T)



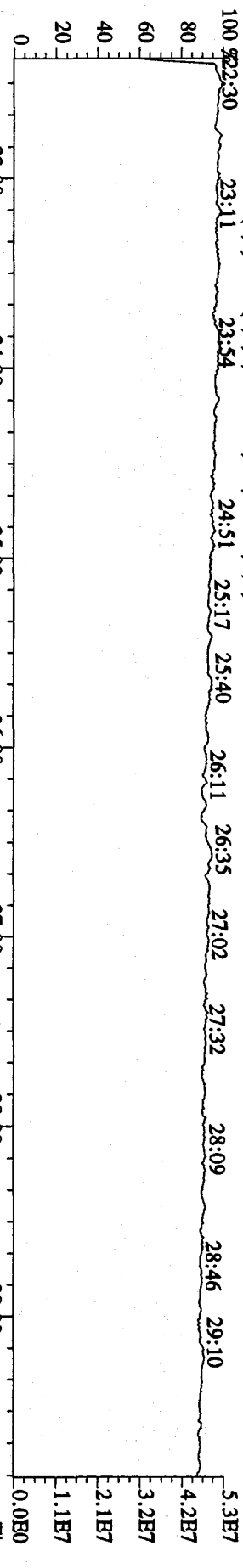


File:22DE09A4D5 #1-596 Acq:22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-UltimaB

Sample#4 Text:LRFL-1-AA :G9L210000-435B Exp:DIOXIN

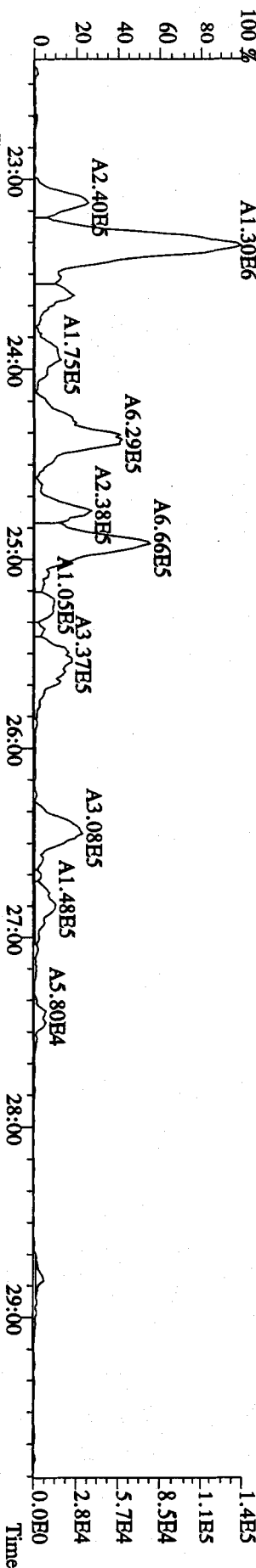
342.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 %



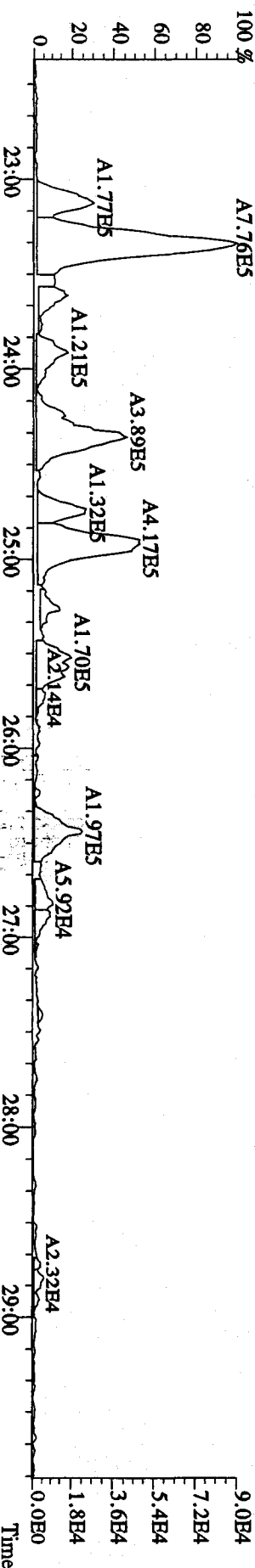
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,924,0,1.00%,F,T)

100 %



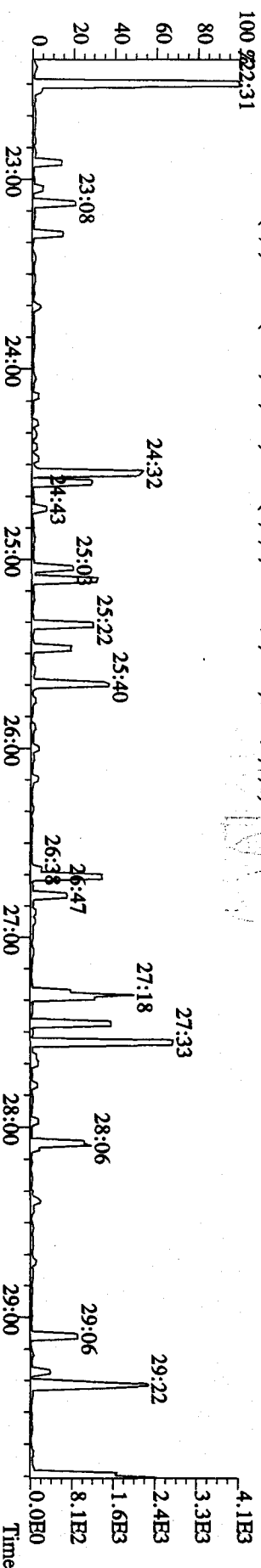
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1388,0,1.00%,F,T)

100 %

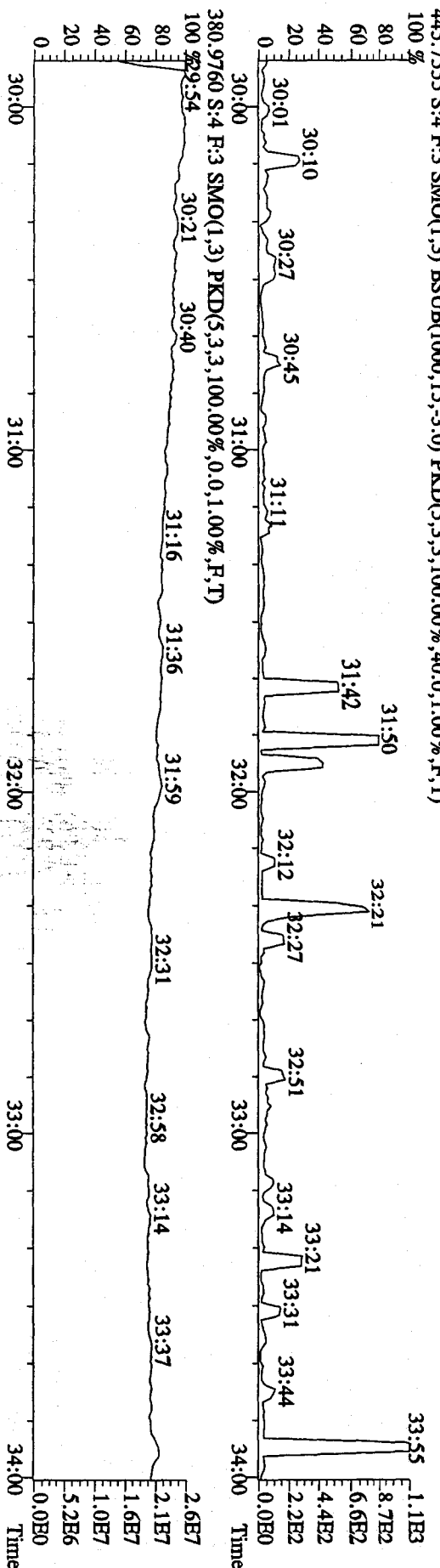
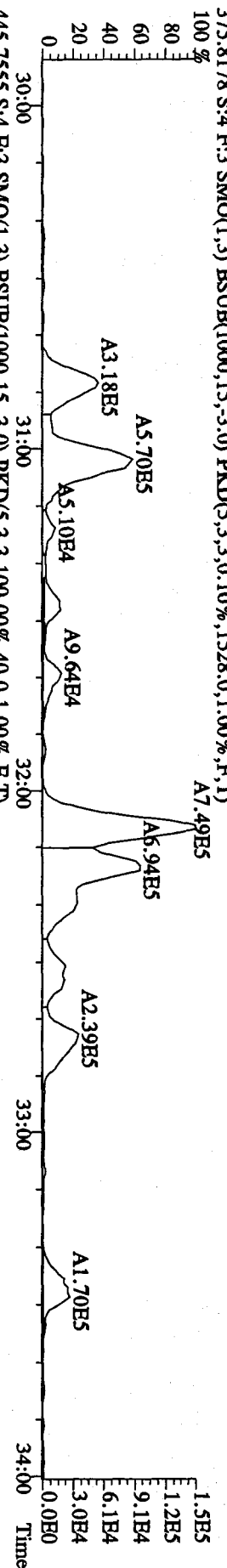
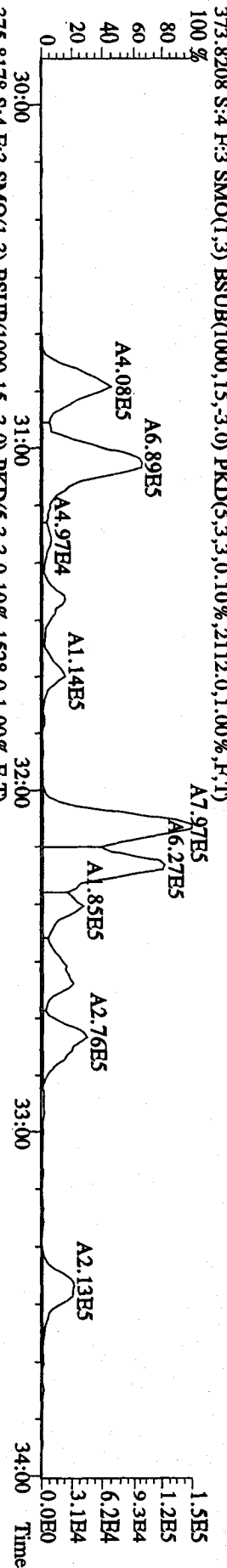
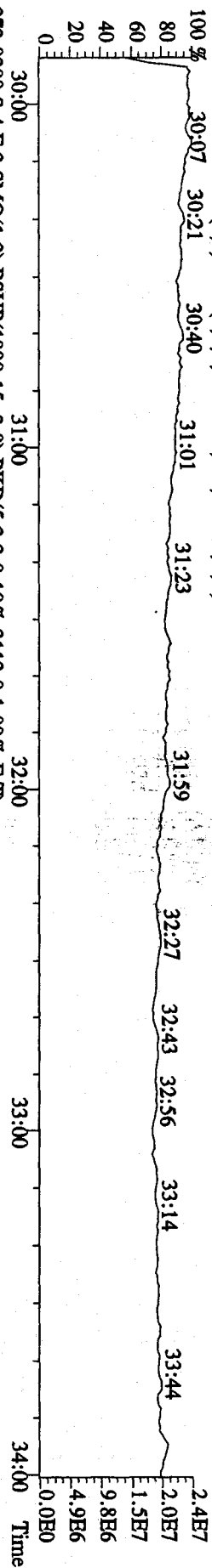


409.7974 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,44,0,1.00%,F,T)

100 %



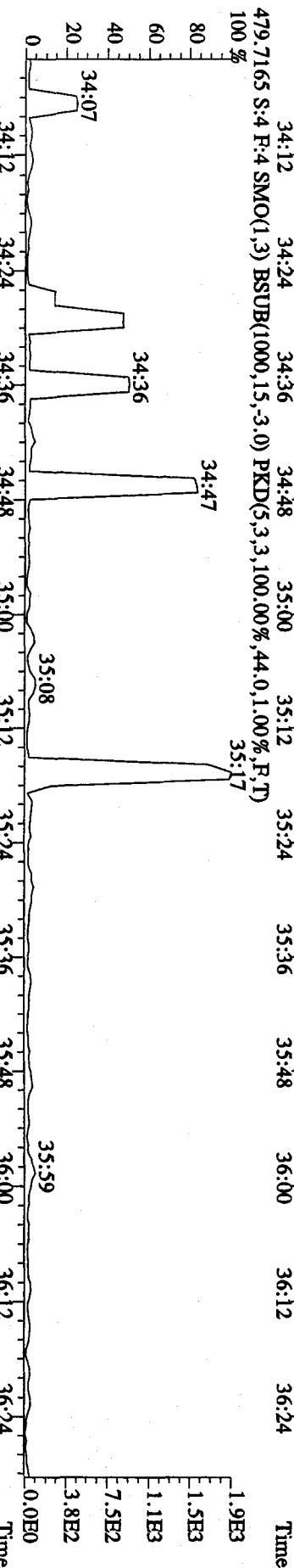
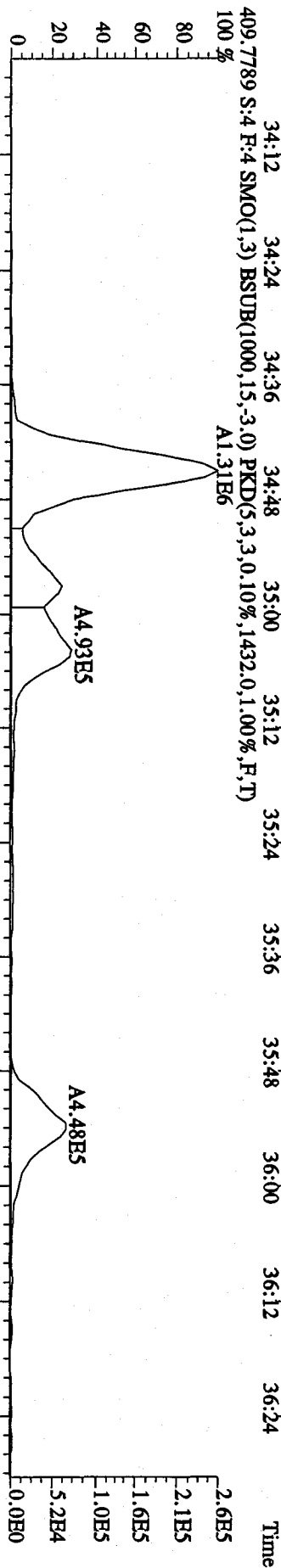
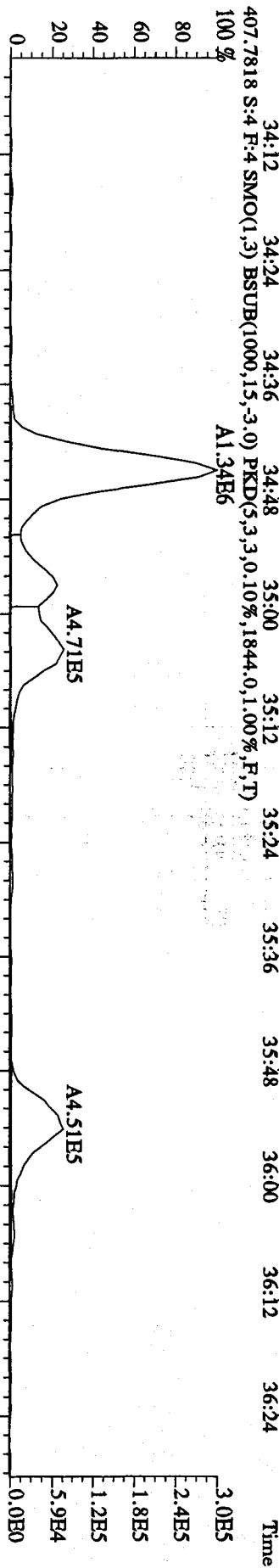
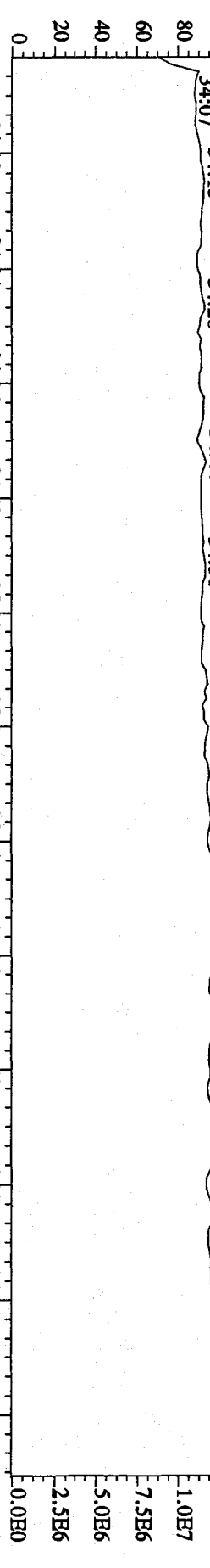
File: 22DE09A4D5 #1-314 Acq: 22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text: LRF9L-1-AA : G9L210000-435B Exp: DIOXIN
 392.9760 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2112.0,1.00%,F,T)
 445.7555 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,40.0,1.00%,F,T)



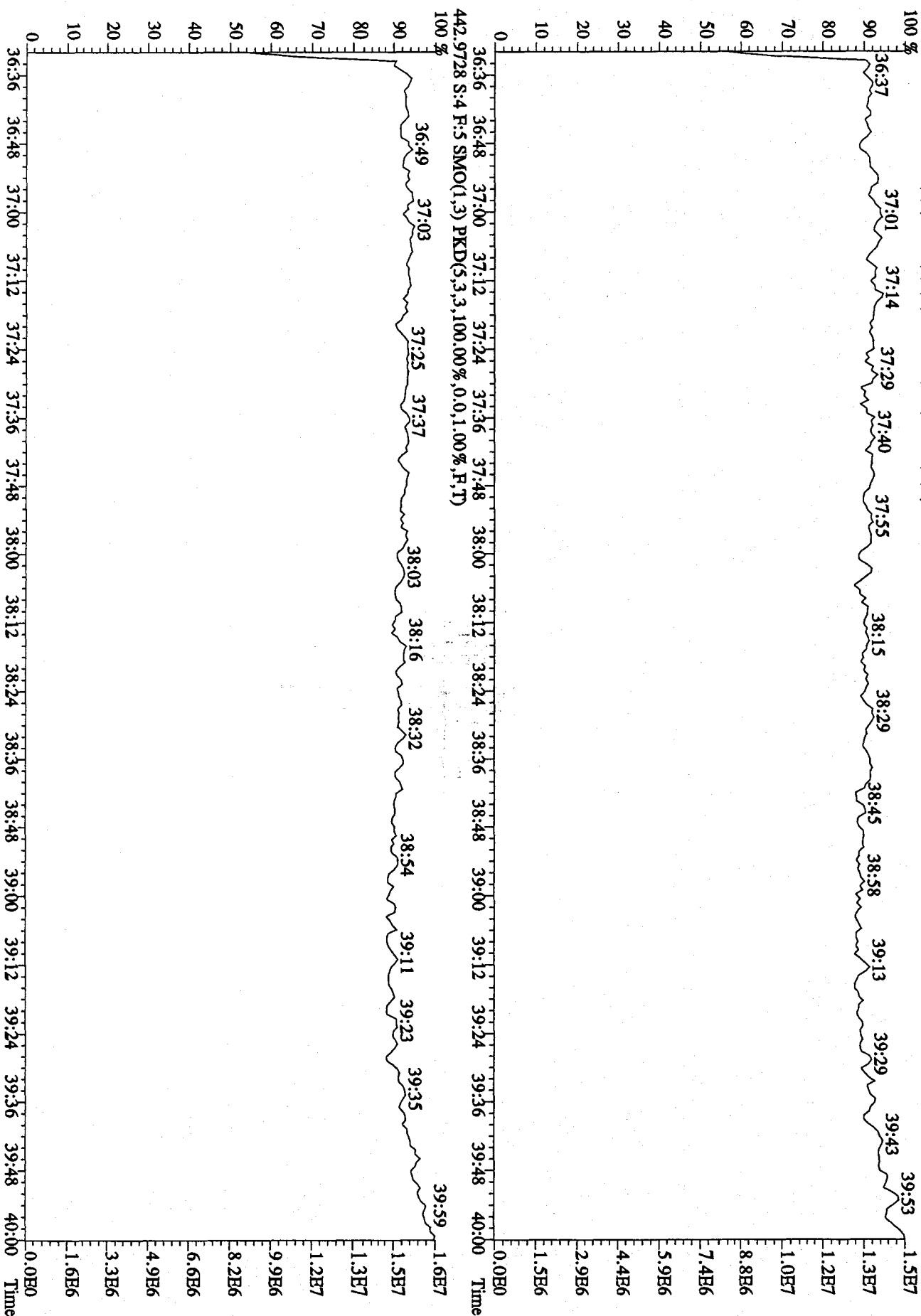
File: 22DB09A4D5 #1-198 Acq: 22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-Ultimate

Sample# 4 Text: LRF9L-1-AA : G9L210000-435B Exp: DIOXIN

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



File: 22DE09A4D5 #1-281 Acq: 22-DEC-2009 23:38:14 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text: LRF9L-1-AA :G9L210000-435B Exp: DIOXIN
 454.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

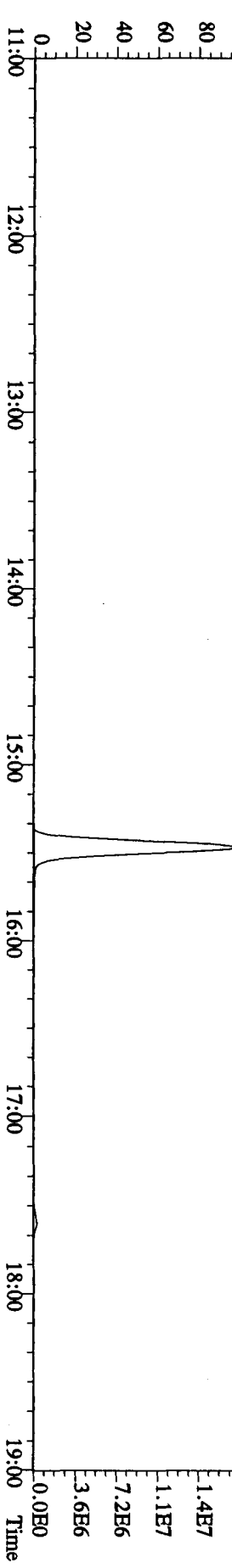
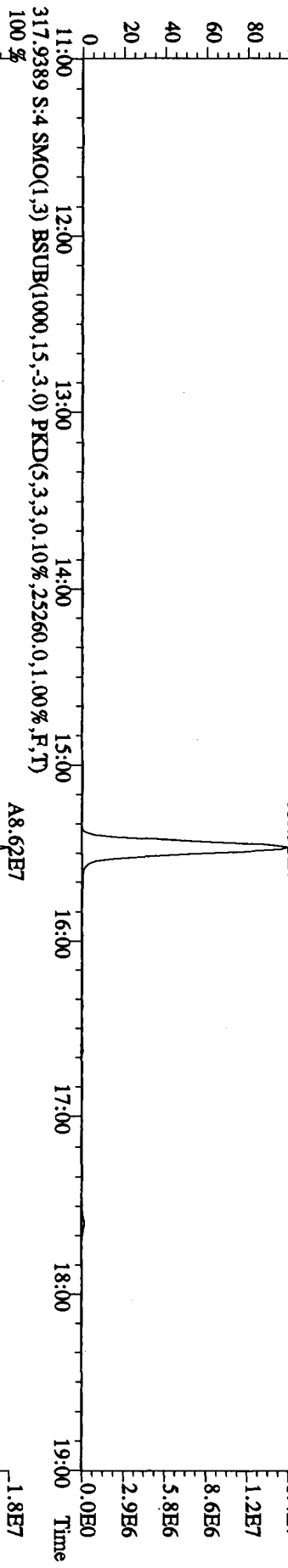
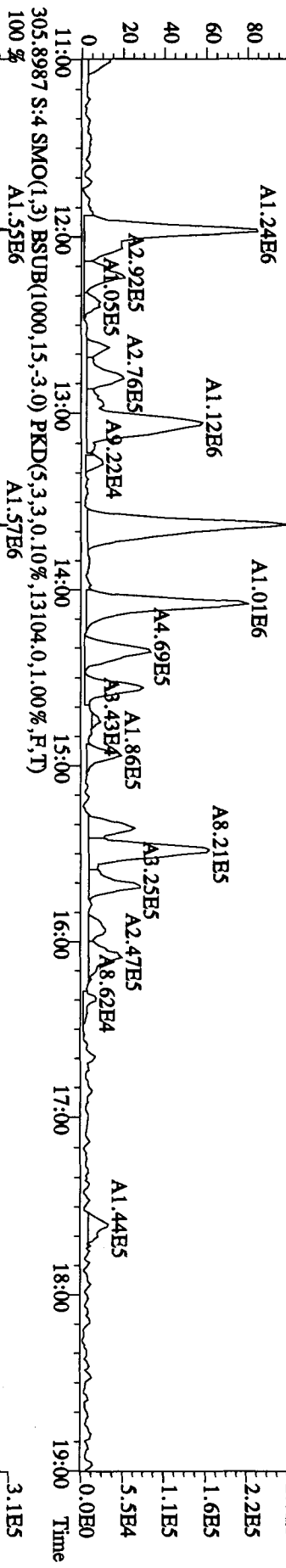


Run text: LRF9L-1-AA Sample text: LRF9L-1-AA :G9L210000-435B (588MB)
 Run #8 Filename: 23DE095D2 S: 4 I: 1 Results: 23DE095D2DB225
 Acquired: 23-DEC-09 10:44:40 Processed: 23-DEC-09 14:25:13
 Run: 23DE095D2 Analyte: DB225HRS Cal: DB2251021095D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.00007g

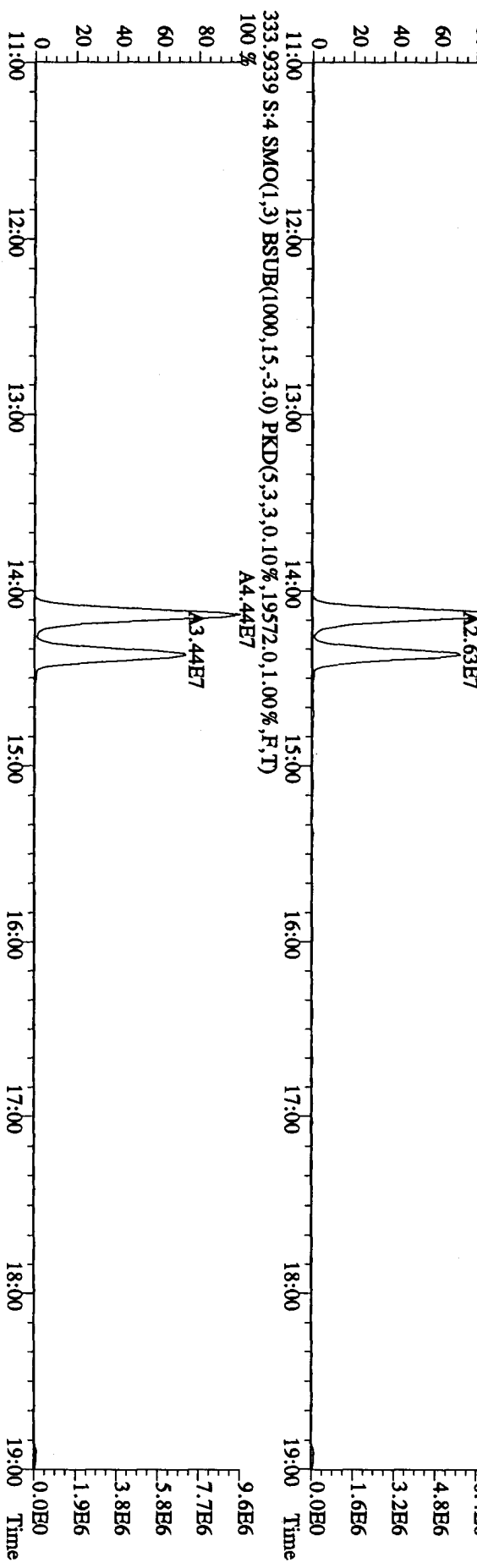
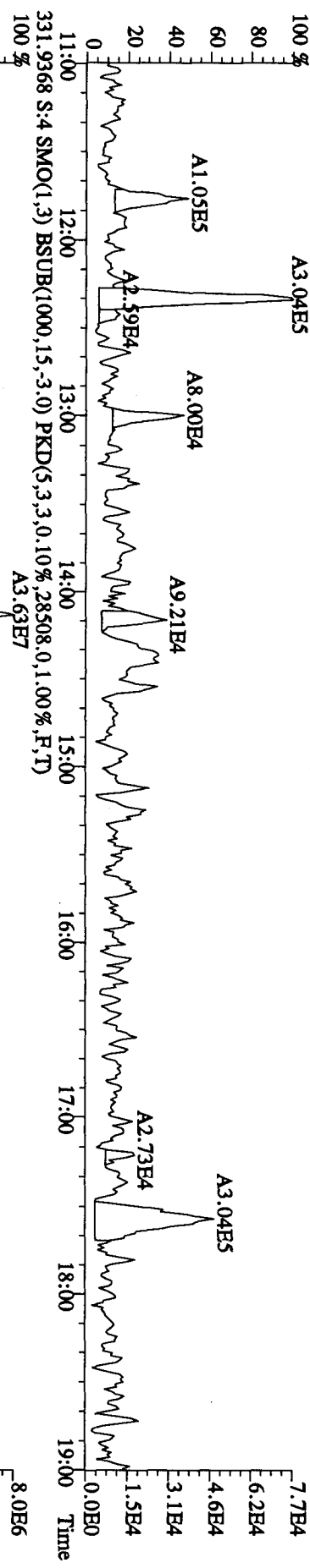
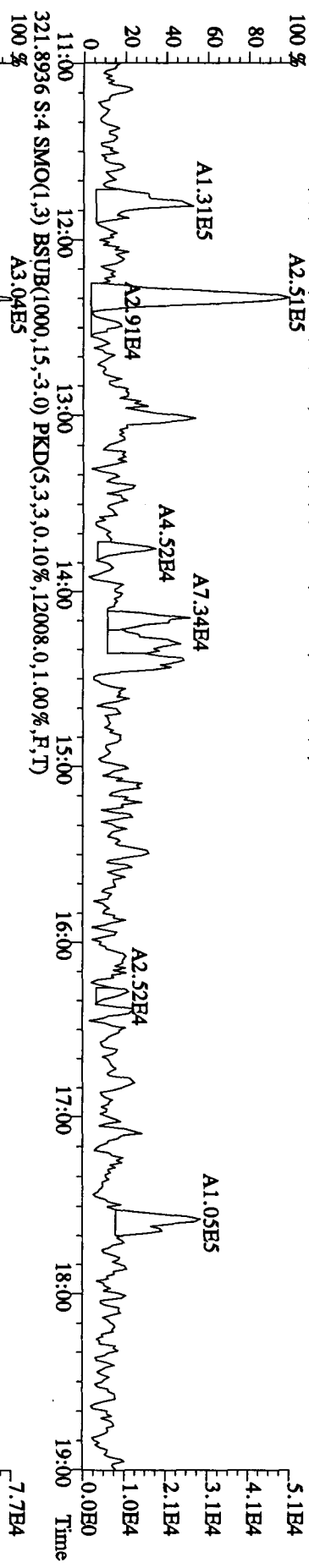
*12/4/09
KSS*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	60713800	0.76 y	14:22	-	3.99	-	-	n
13C-2,3,7,8-TCDF	155379600	0.80 y	15:28	1.98	129.55	0.64	64.8	n
2,3,7,8-TCDF	1822909	0.82 y	15:29	1.18	1.99	0.36	-	n
13C-2,3,7,8-TCDD	80641200	0.82 y	14:08	0.97	136.80	1.16	68.4	n
2,3,7,8-TCDD	165445	0.80 y	14:09	1.51	0.27	0.47	-	n
37C1-2,3,7,8-TCDD	104300200	1.00 y	14:09	2.70	63.52	0.19	79.4	n

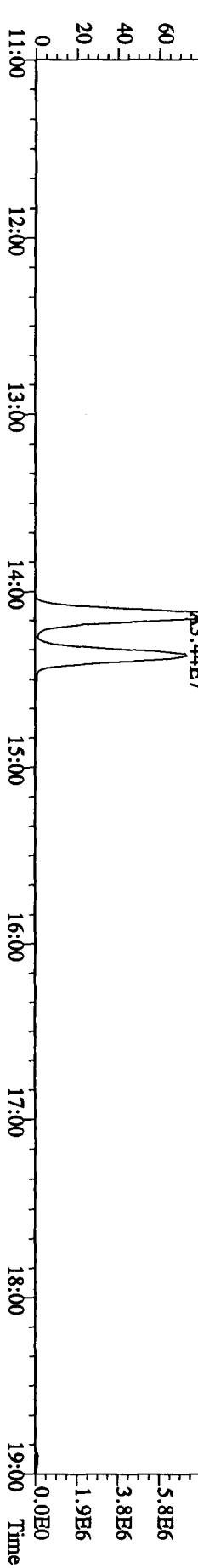
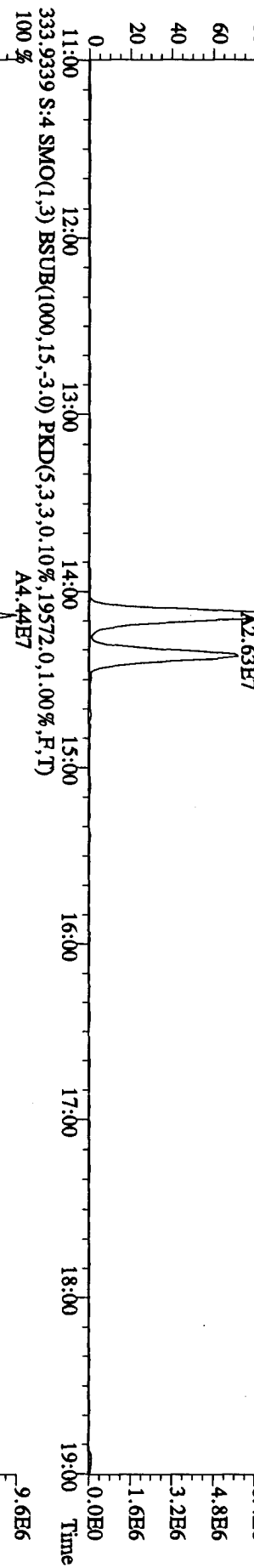
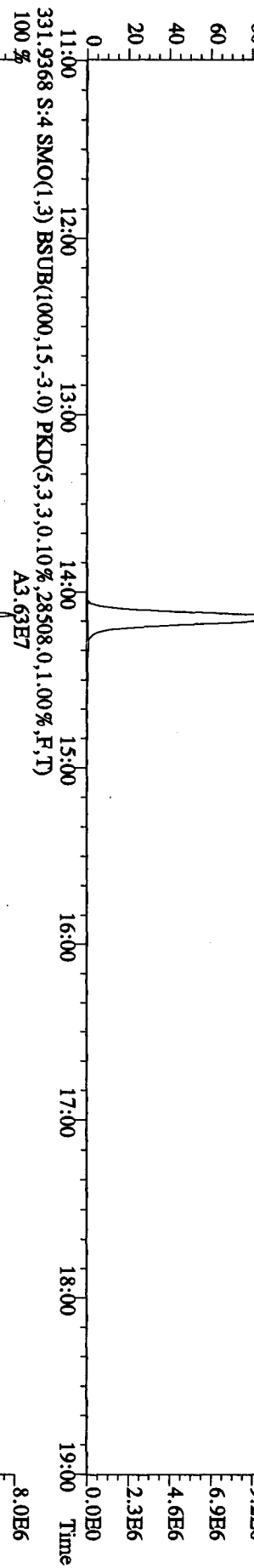
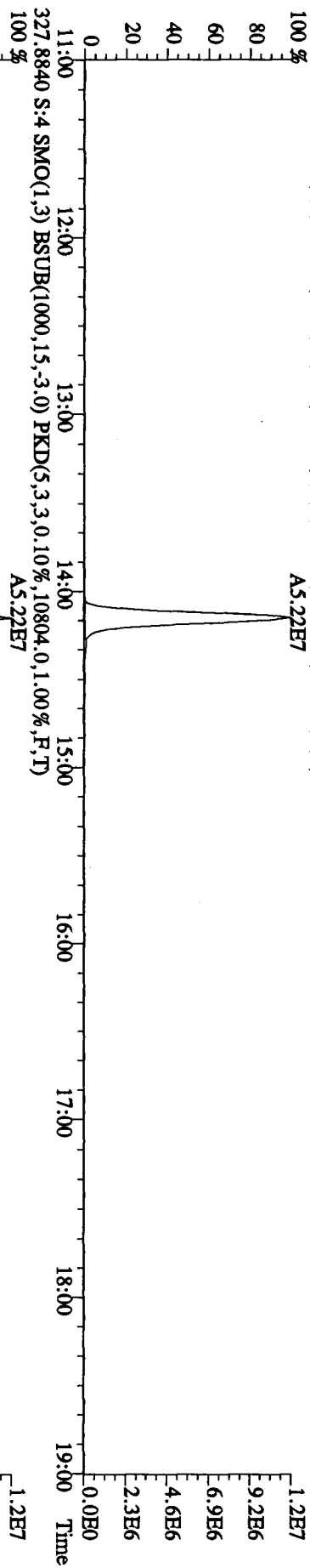
File:23DE09SD2 #1-1242 Acq:23-DEC-2009 10:44:40 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRP9L-1-AA :G9L210000-435B (588MB) Exp:DB225
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9656,0,1,00%,F,T)



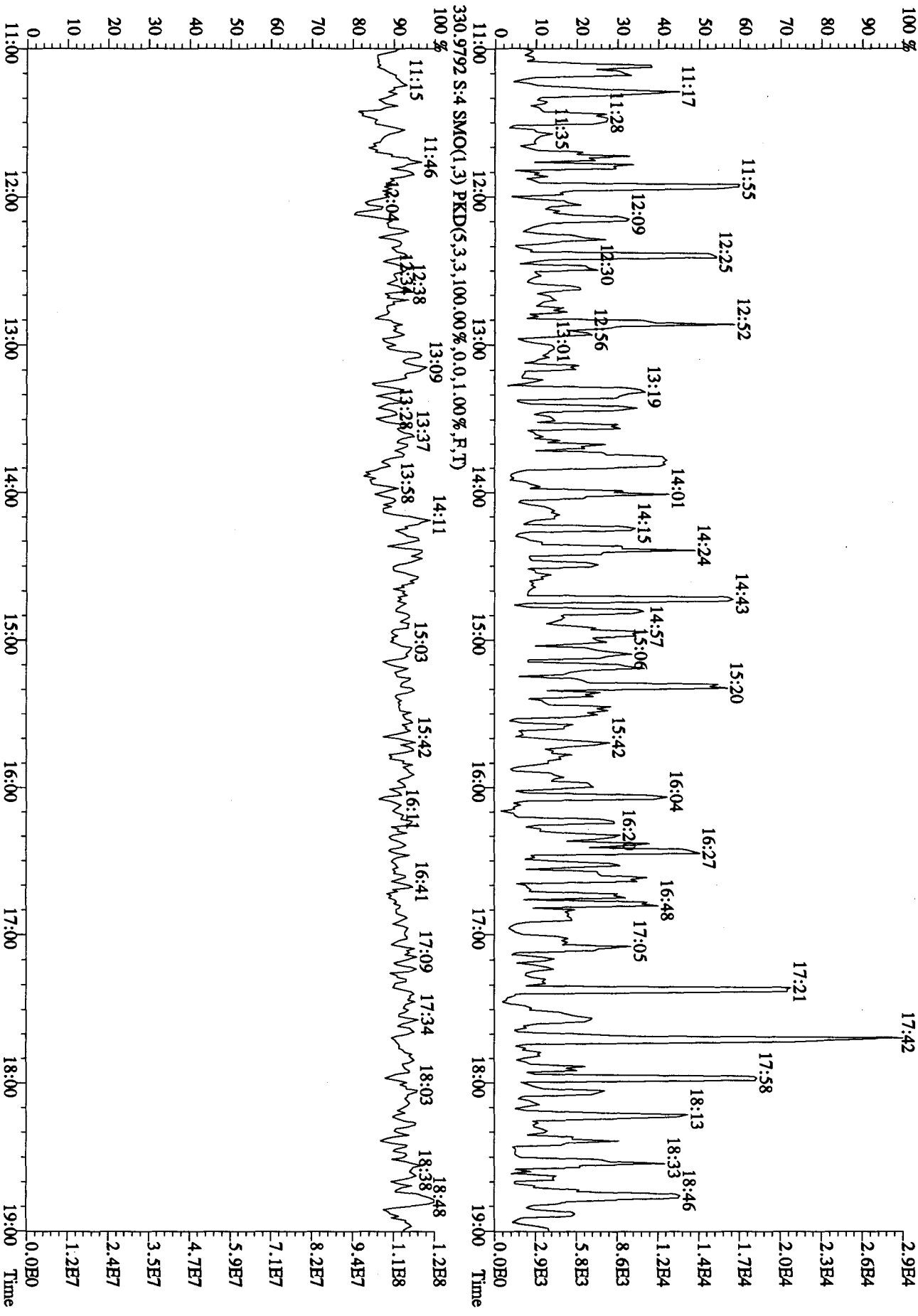
File:23DDE095D2 #1-1242 Acq:23-DEC-2009 10:44:40 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRP9L-1-AA :G9L210000-435B (588MB) Exp:DB225
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8884.0,1.00%,F,T)
 100 % A2.51E5



File:23DDE095D2 #1-1242 Acq:23-DEC-2009 10:44:40 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRP9L-1-AA :G9L210000-435B (588MB) Exp:DB225
 327.8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10804.0,1.00%,F,T)
 100 % A5.22E7



File:23DB09SD2 #1-1242 Acq:23-DEC-2009 10:44:40 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRP9L-1-AA :G9L210000-435B (588MB) Exp:DB225
 375.8364 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3436,0.1,0.0%,F,T)

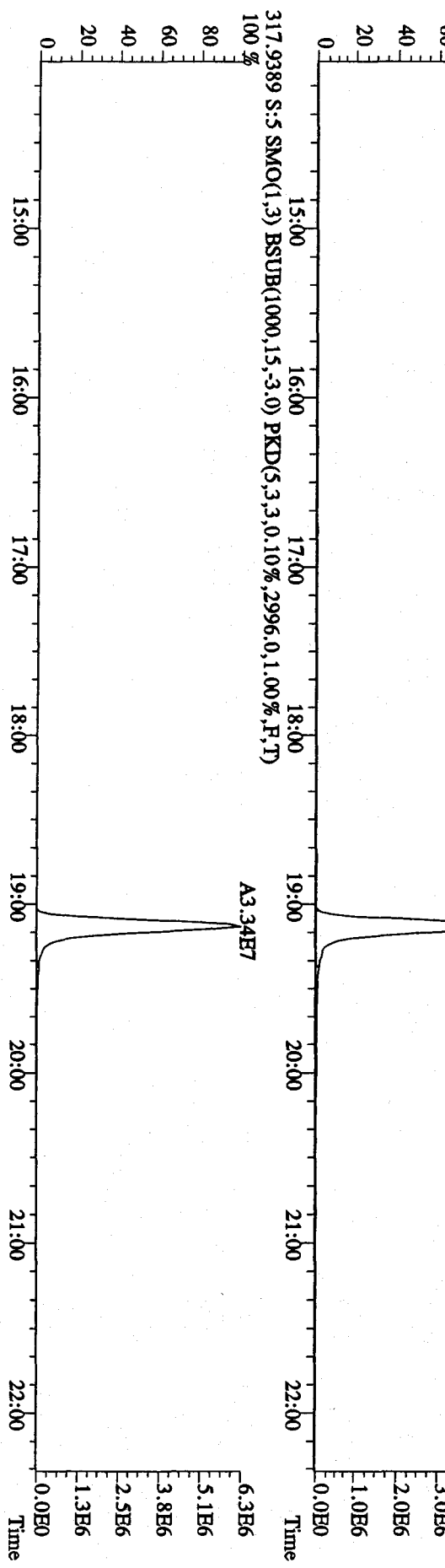
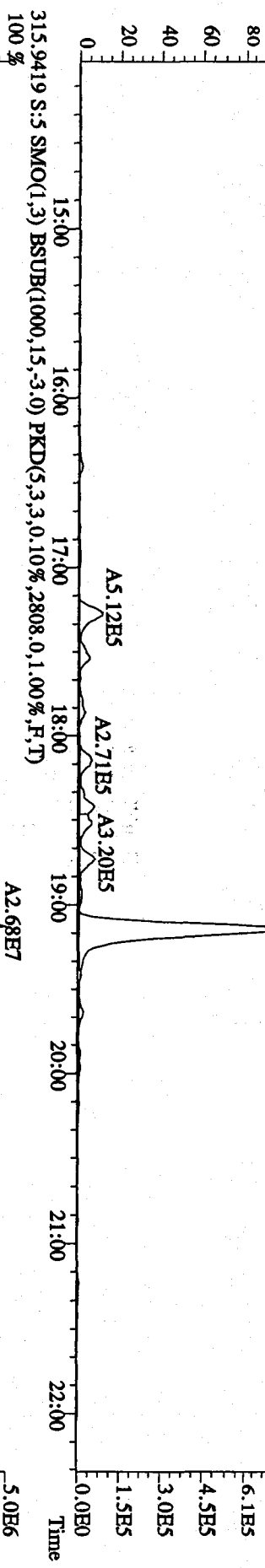
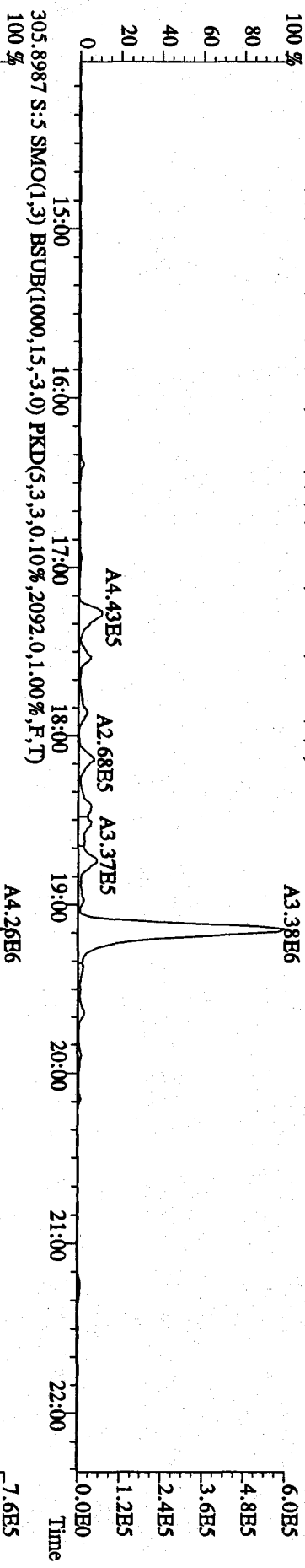


Run text: LRF9L-1-AC Sample text: LRF9L-1-AC :G9L210000-435C
 Run #9 Filename: 22DE09A4D5 S: 5 I: 1 Results: 22DE09A4D58290
 Acquired: 23-DEC-09 00:22:16 Processed: 23-DEC-09 04:41:00
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.0000g

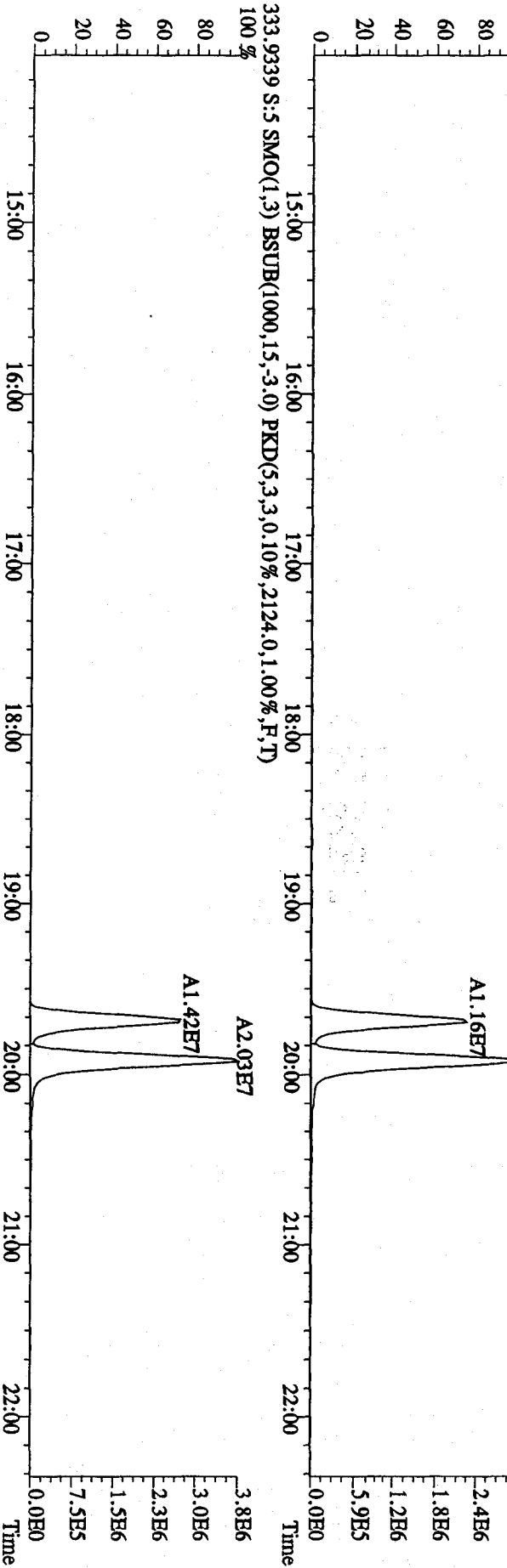
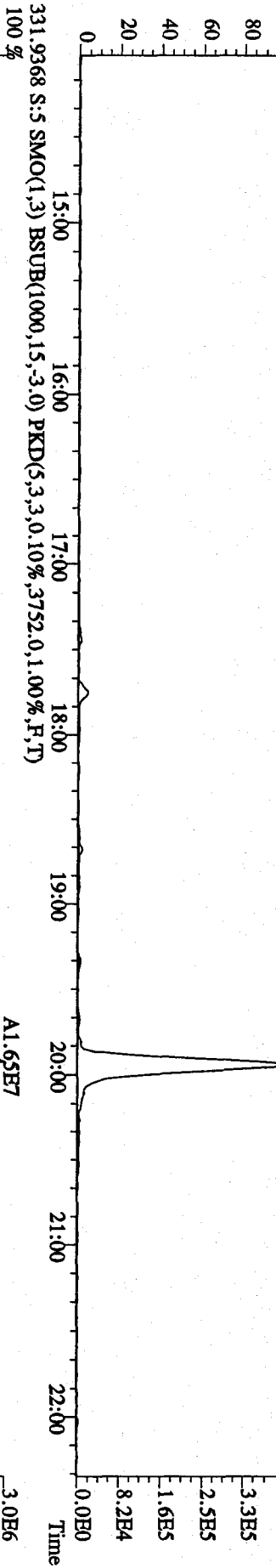
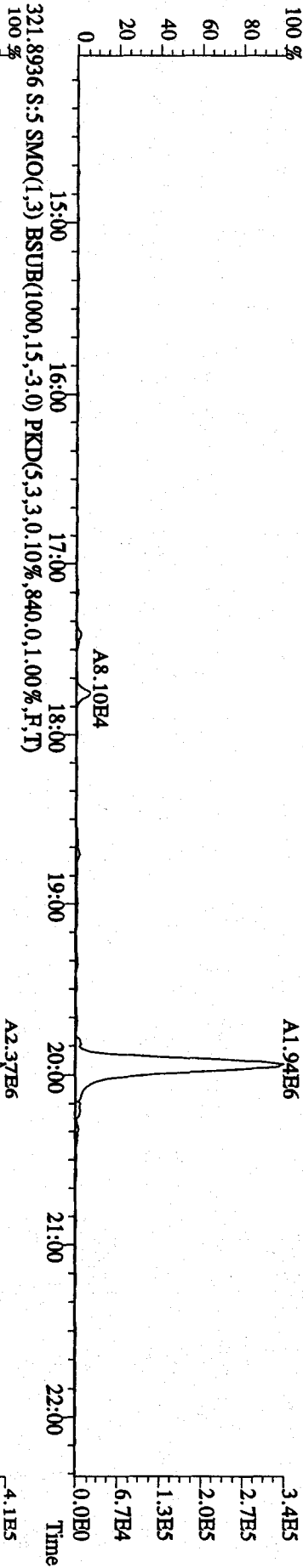
*12/23/09
LSS*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	25790400	0.82 y	19:42	-	1.44	-	-	n
13C-2,3,7,8-TCDF	60133500	0.80 y	19:08	1.46	159.84	0.24	79.9	n
2,3,7,8-TCDF	7639390	0.79 y	19:09	1.27	19.96 ✓	0.14	-	n
Total TCDF	11971730	0.75 y	16:23	1.27	31.27	0.14	-	n
13C-2,3,7,8-TCDD	36806000	0.81 y	19:55	0.92	154.63	0.39	77.3	n
2,3,7,8-TCDD	4314320	0.82 y	19:56	1.23	19.11 ✓	0.07	-	n
Total TCDD	4753096	0.38 n	14:34	1.23	21.05	0.07	-	n
37Cl-2,3,7,8-TCDD	44421200	1.00 y	19:56	2.52	68.47	0.00	85.6	n
13C-1,2,3,7,8-PeCDF	40415300	1.56 y	24:54	1.27	123.70	0.24	61.8	n
1,2,3,7,8-PeCDF	25766400	1.56 y	24:55	1.30	97.96 ✓	0.45	-	n
2,3,4,7,8-PeCDF	23288930	1.58 y	26:26	1.25	92.21 ✓	0.47	-	n
Total F2 PeCDF	52655919	1.39 y	23:08	1.28	204.13	0.46	-	n
Total F1 PeCDF	193398	0.28 n	14:16	1.28	0.75	0.07	-	n
13C-1,2,3,7,8-PeCDD	23142230	1.60 y	27:15	0.77	116.17	0.02	58.1	n
1,2,3,7,8-PeCDD	13153380	1.58 y	27:17	1.24	91.57 ✓	0.48	-	n
Total PeCDD	13430950	1.16 n	23:32	1.24	93.50	0.48	-	n
13C-1,2,3,7,8,9-HxCDD	14571510	1.24 y	33:14	-	0.82	-	-	n
13C-1,2,3,4,7,8-HxCDF	27811830	0.52 y	32:06	1.19	160.76	0.02	80.4	n
1,2,3,4,7,8-HxCDF	17906010	1.22 y	32:07	1.31	98.50 ✓	0.81	-	n
1,2,3,6,7,8-HxCDF	22148300	1.21 y	32:13	1.41	112.78 ✓	0.75	-	n
2,3,4,6,7,8-HxCDF	18626680	1.20 y	32:47	1.33	100.40 ✓	0.80	-	n
1,2,3,7,8,9-HxCDF	14269750	1.22 y	33:26	1.20	85.84 ✓	0.89	-	n
Total HxCDF	75298859	1.21 y	30:50	1.31	410.38	0.81	-	n
13C-1,2,3,6,7,8-HxCDD	20166320	1.32 y	32:58	0.75	185.34	0.01	92.7	n
1,2,3,4,7,8-HxCDD	10725820	1.22 y	32:54	1.24	85.63 ✓	0.03	-	n
1,2,3,6,7,8-HxCDD	12332710	1.30 y	32:59	1.48	82.67 ✓	0.03	-	n
1,2,3,7,8,9-HxCDD	12688990	1.28 y	33:14	1.47	85.45 ✓	0.03	-	n
Total HxCDD	35969980	1.23 y	31:34	1.40	255.33	0.03	-	n
13C-1,2,3,4,6,7,8-HpCDF	22935640	0.42 y	34:44	0.91	172.32	1.12	86.2	n
1,2,3,4,6,7,8-HpCDF	18737160	1.03 y	34:45	1.59	102.44 ✓	0.66	-	n
1,2,3,4,7,8,9-HpCDF	12948690	0.99 y	35:54	1.33	84.81 ✓	0.79	-	n
Total HpCDF	33656428	1.03 y	34:45	1.46	199.00	0.71	-	n
13C-1,2,3,4,6,7,8-HpCDD	17531030	1.11 y	35:33	0.71	168.55	0.34	84.3	n
1,2,3,4,6,7,8-HpCDD	10948000	1.07 y	35:35	1.31	95.54 ✓	0.41	-	n
Total HpCDD	11130872	0.95 y	35:00	1.31	97.13	0.41	-	n
13C-OCDD	28284300	0.89 y	38:06	0.61	320.36	0.26	80.1	n
OCDF	23604900	0.91 y	38:13	1.51	221.19 ✓	0.28	-	n
OCDD	15409240	0.92 y	38:06	1.19	182.58 ✓	0.29	-	n

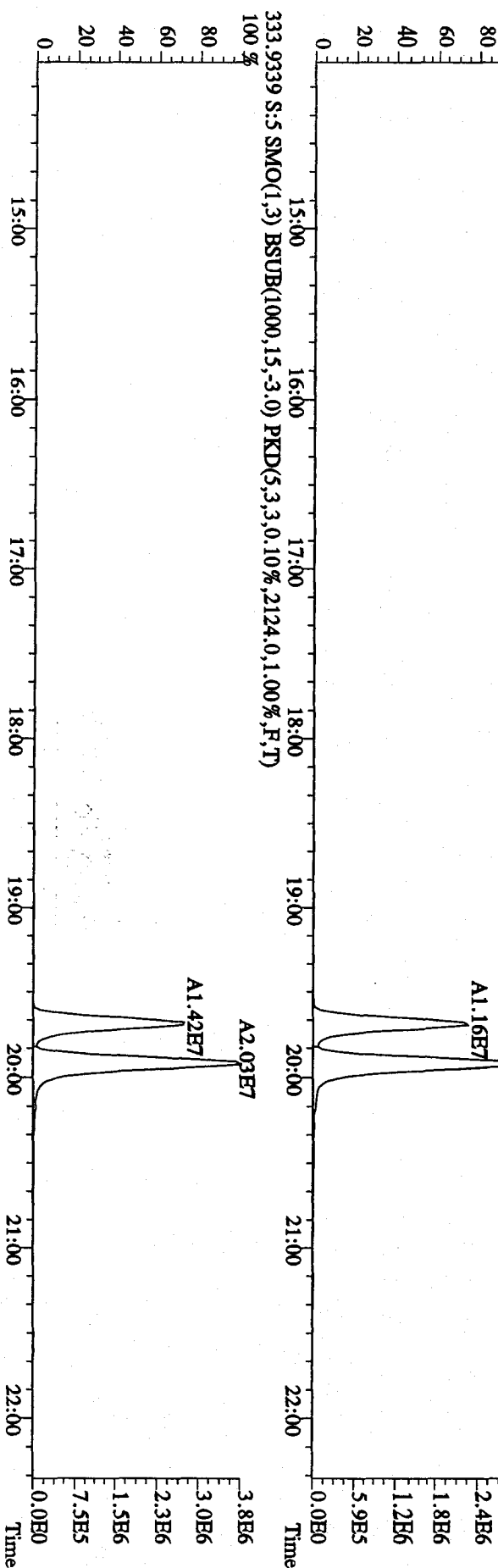
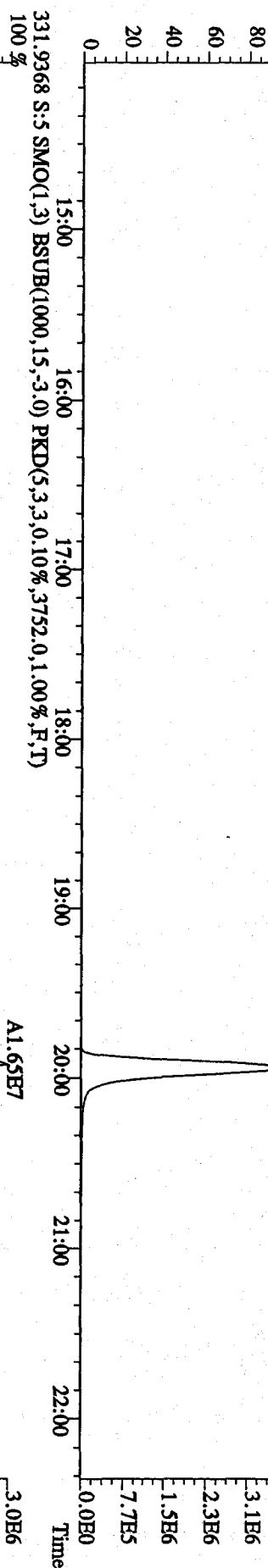
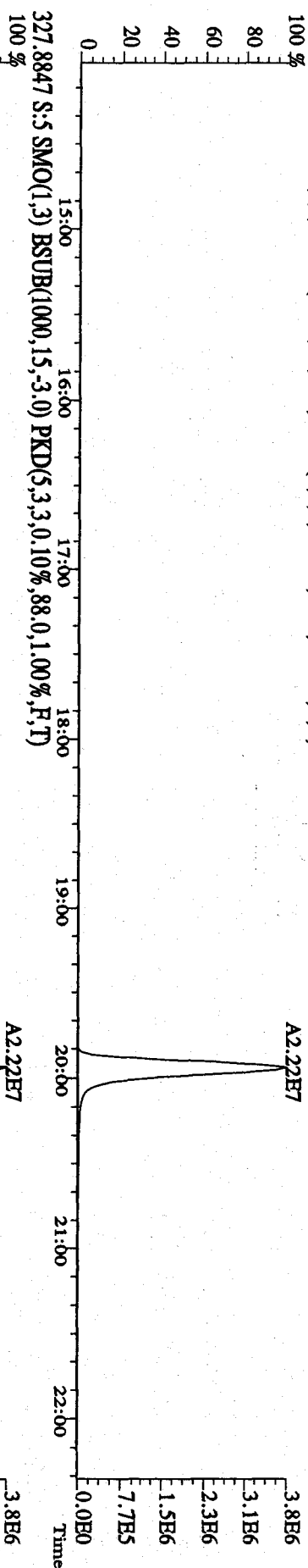
File: 22DE09A4D5 #1-578 Acq: 23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text: LRP9L-1-AC :G9L210000-435C Exp: DIOXIN
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1224,0,1.00%,F,T)



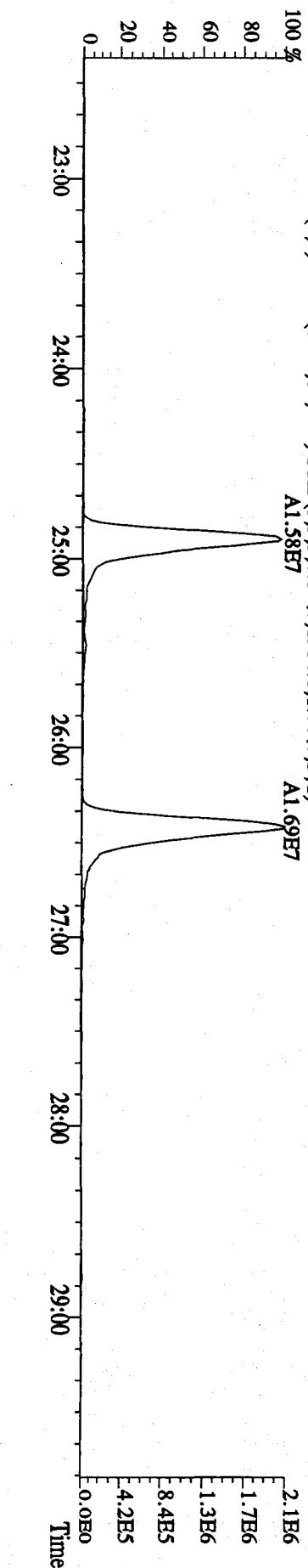
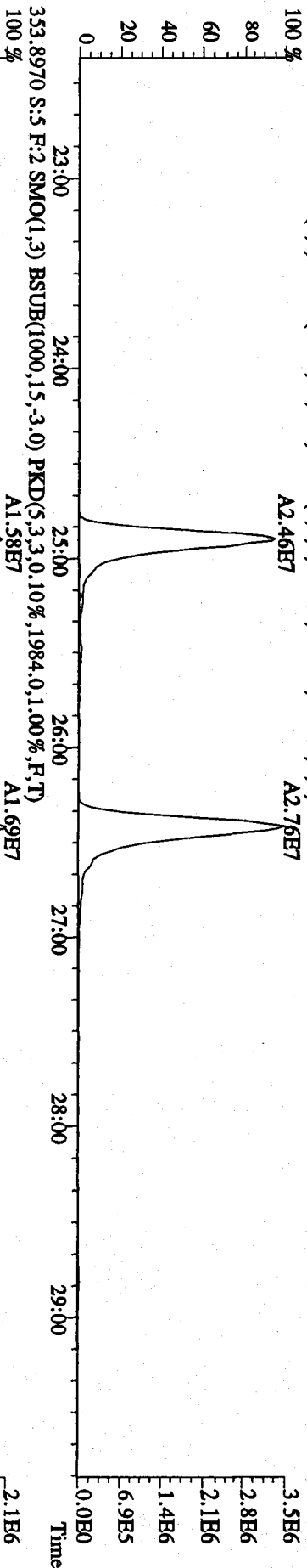
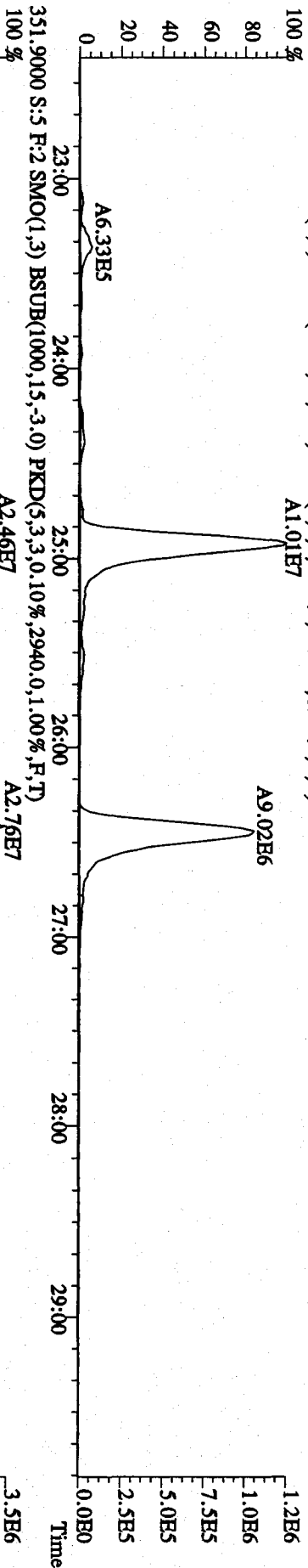
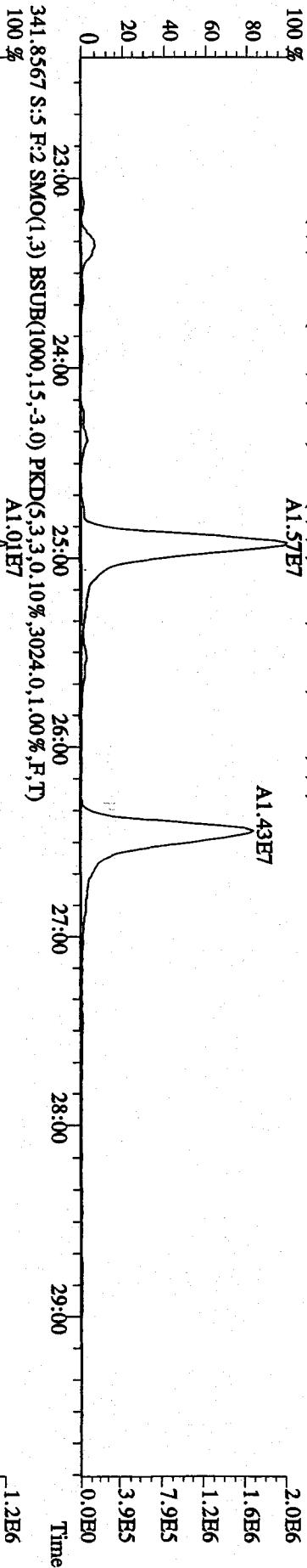
File:22DDE09A4D5 #1-578 Acq:23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:LRP9L-1-AC :G9L210000-435C Exp:DIOXIN
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,108.0,1.00%,F,T)
 100 %



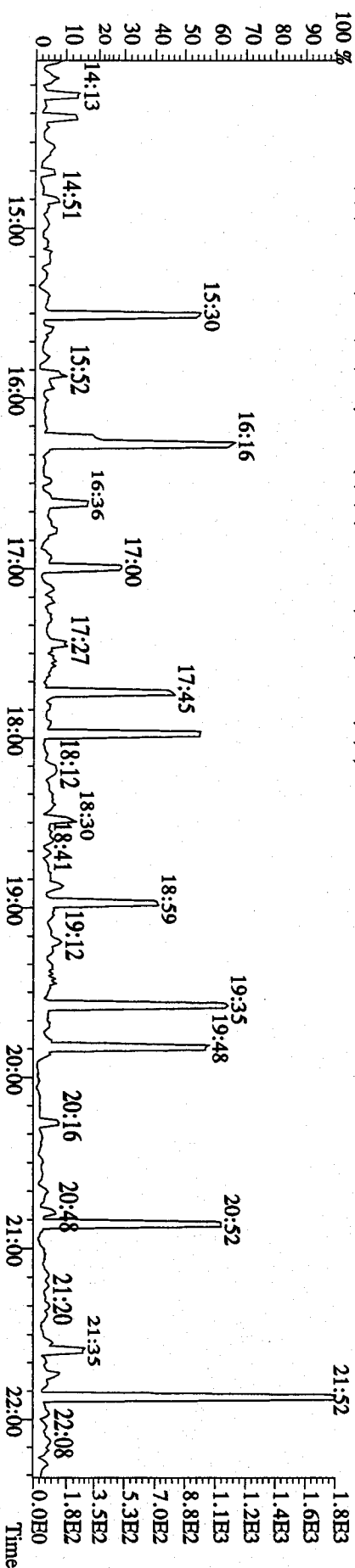
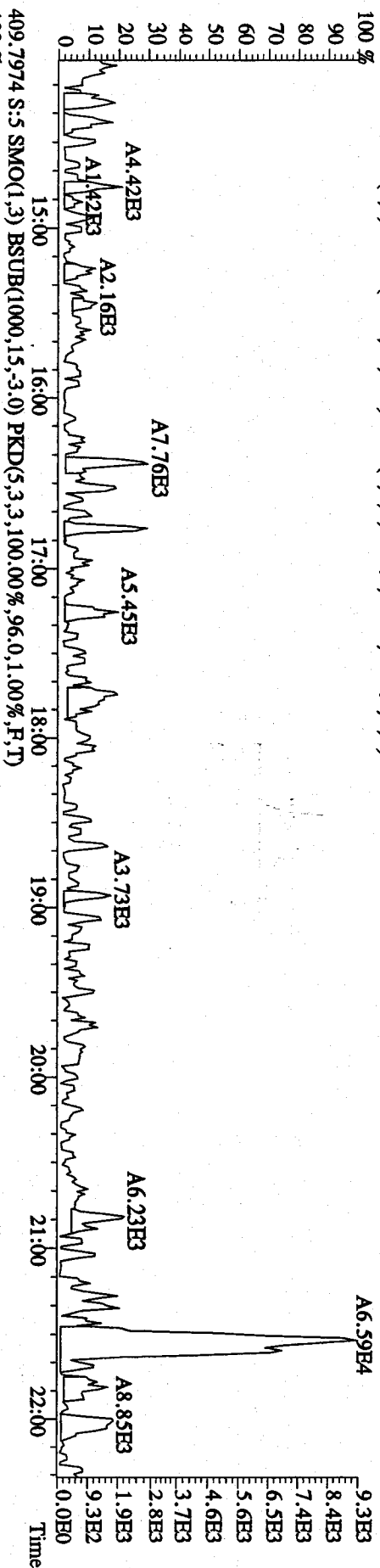
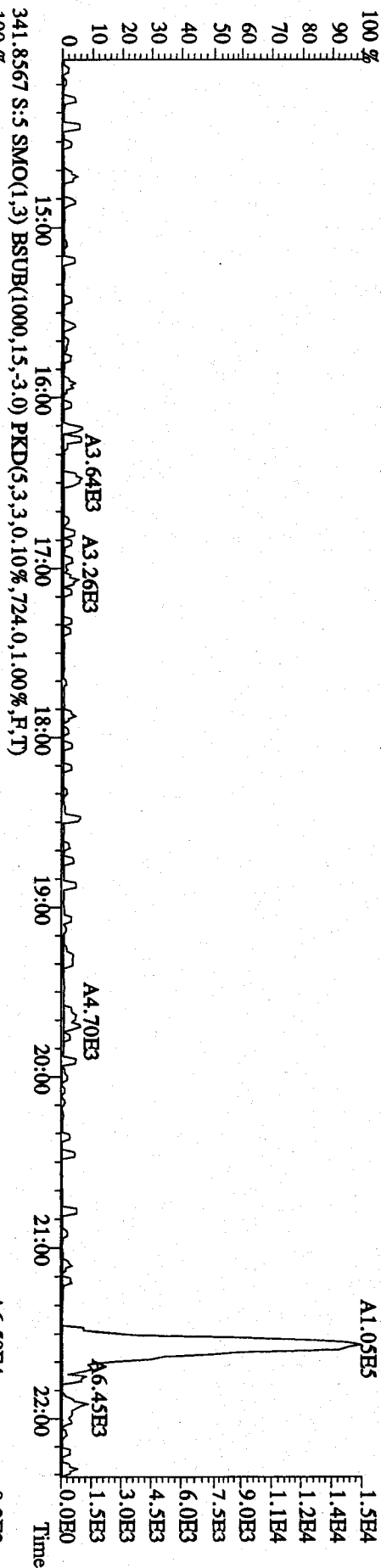
File:22DE09A4D5 #1-578 Acq:23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:LRP9L-1-AC :G9L210000-435C Exp:DIOXIN
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,88.0,1.00%,F,T)



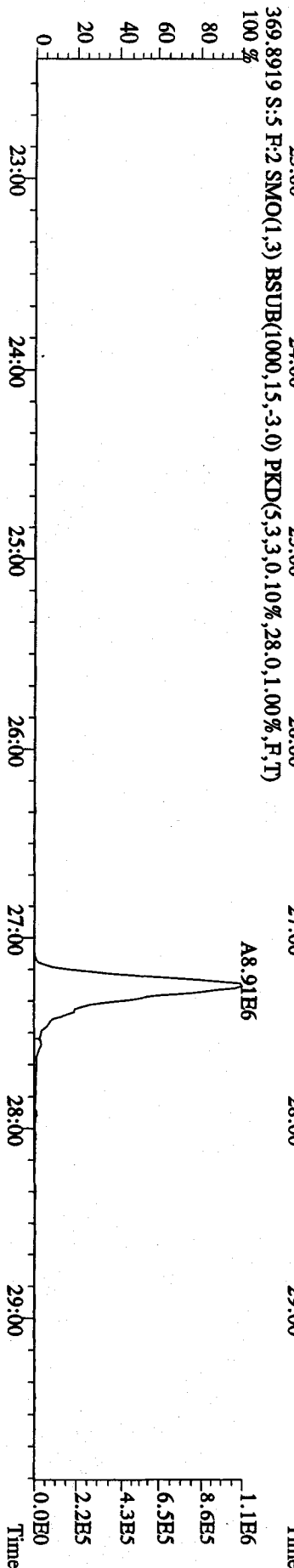
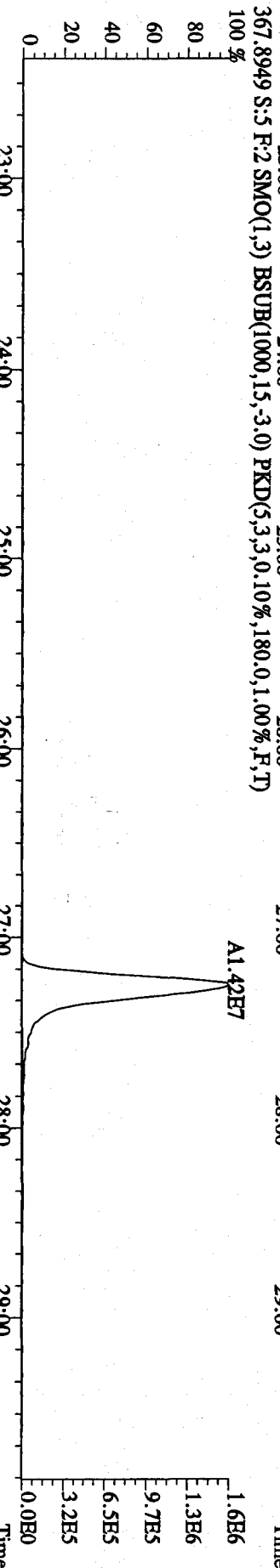
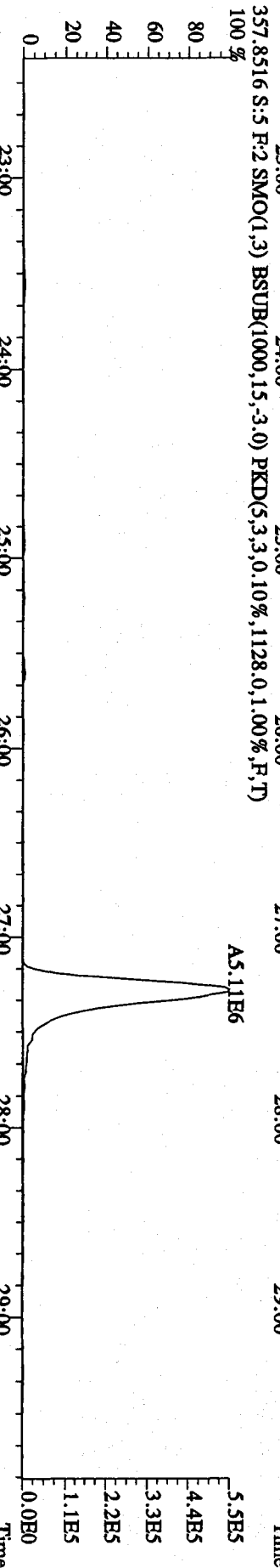
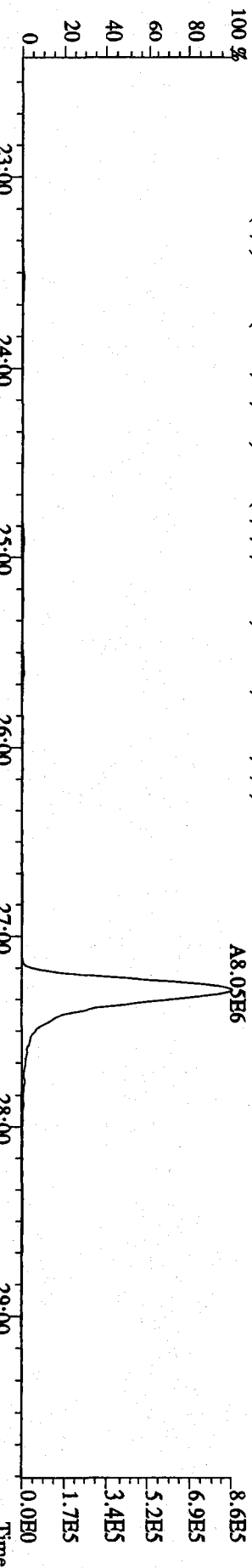
File: 22DE09A4D5 #1-596 Acq: 23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text: LRF9L-1-AC : G9L210000-435C Exp: DIOXIN
 339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2168.0,1.00%,F,T)
 100 %



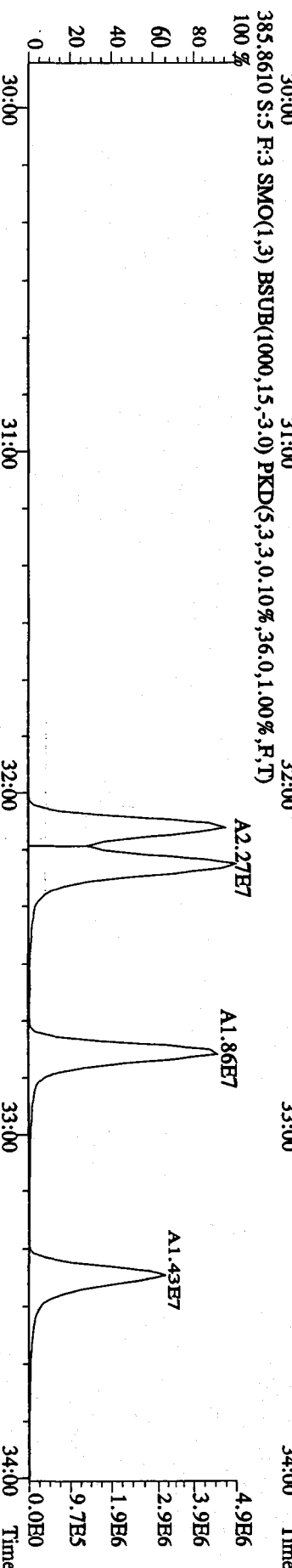
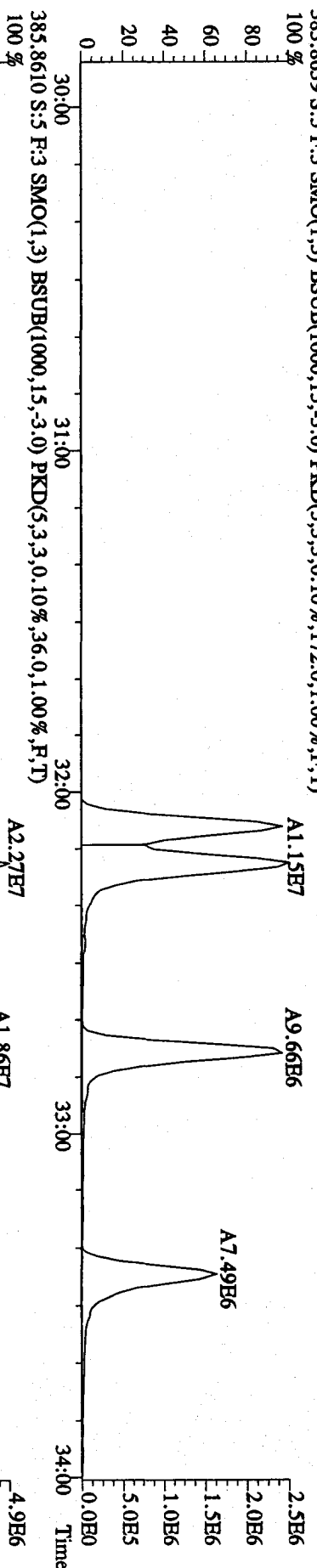
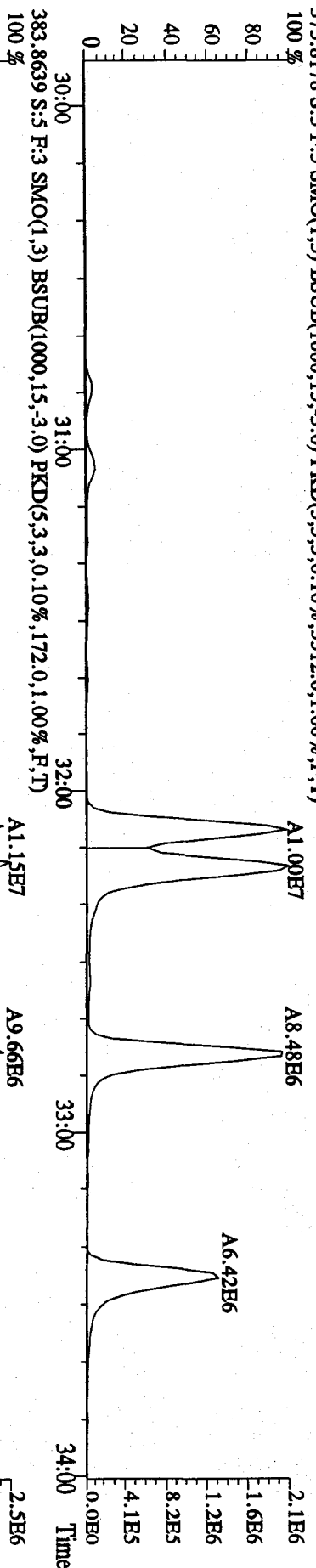
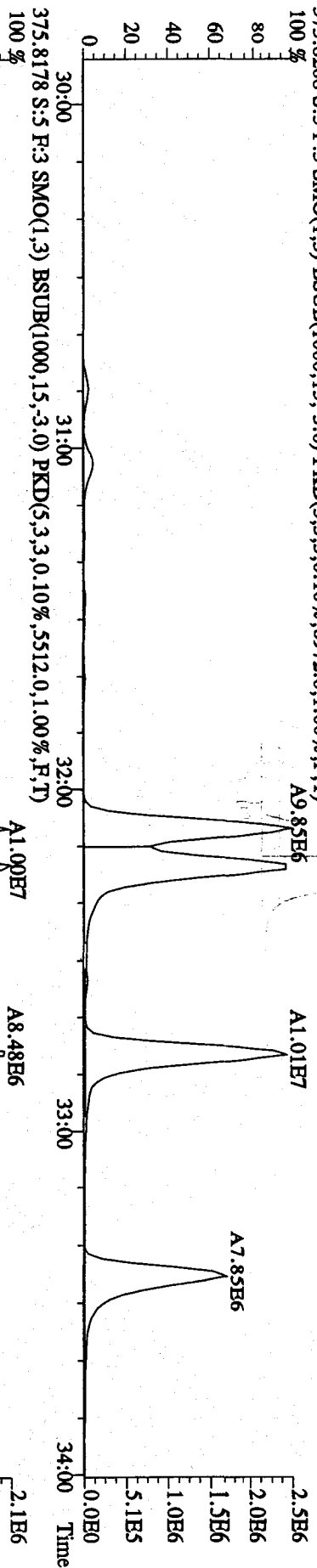
File:22DB09A4D5 #1-578 Acq:23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:LRP9L-1-AC :G9L210000-435C Exp:DIOXIN
 339.8597 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,724.0,1.00%,F,T)
 100%



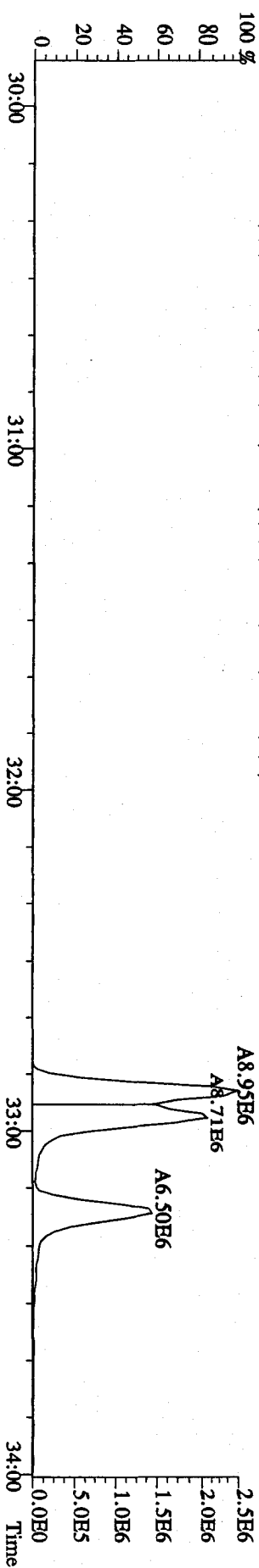
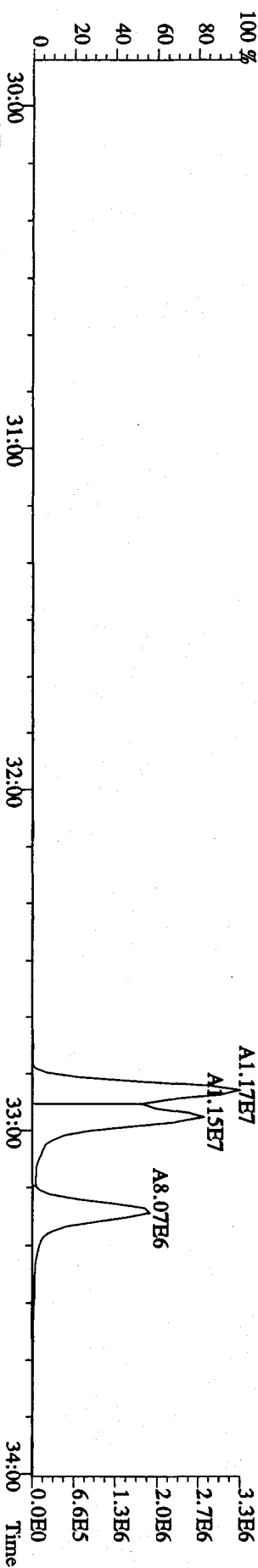
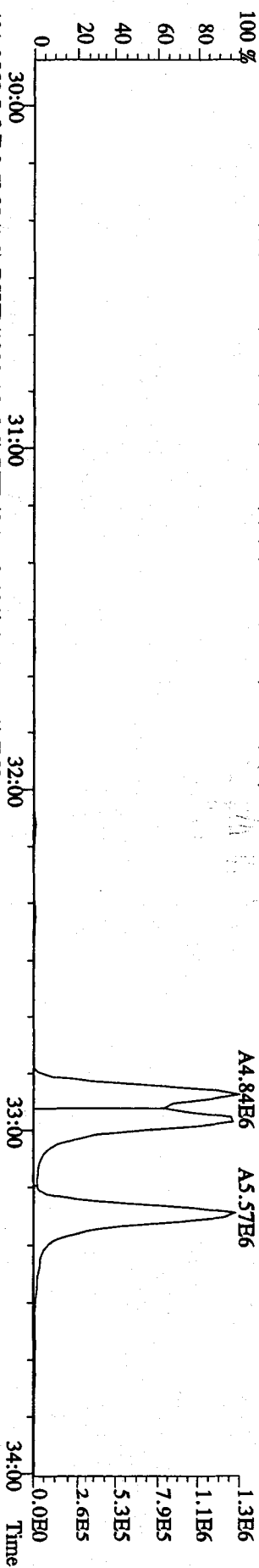
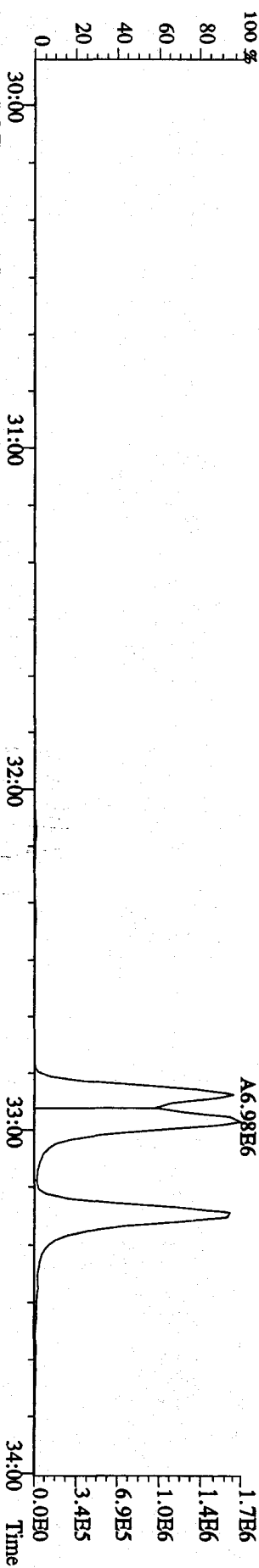
File:22DIE09A4D5 #1-596 Acq:23-DEC-2009 00:22:16 GC EI + Voltage SIR Autospec-UltimaE
 Sample#5 Text:LRF9L-1-AC :G9L210000-435C Exp:DIOXIN
 355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1552.0,1.00%,F,T)



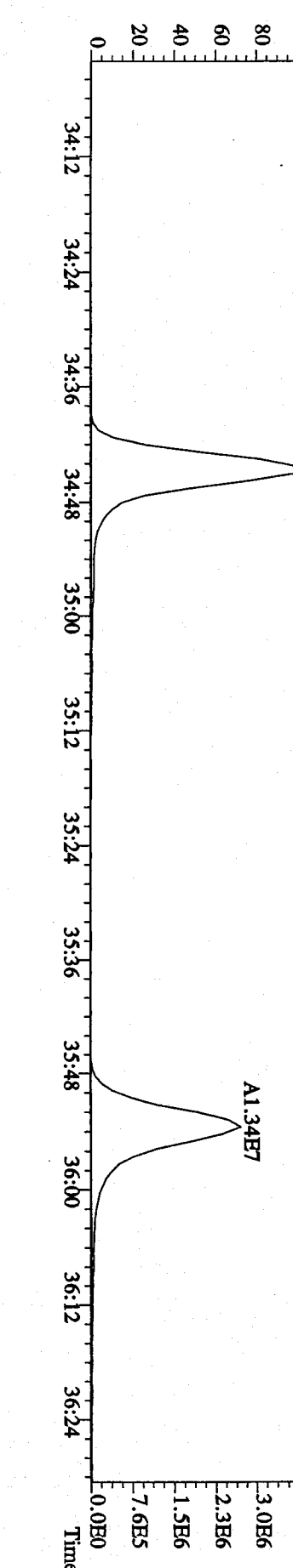
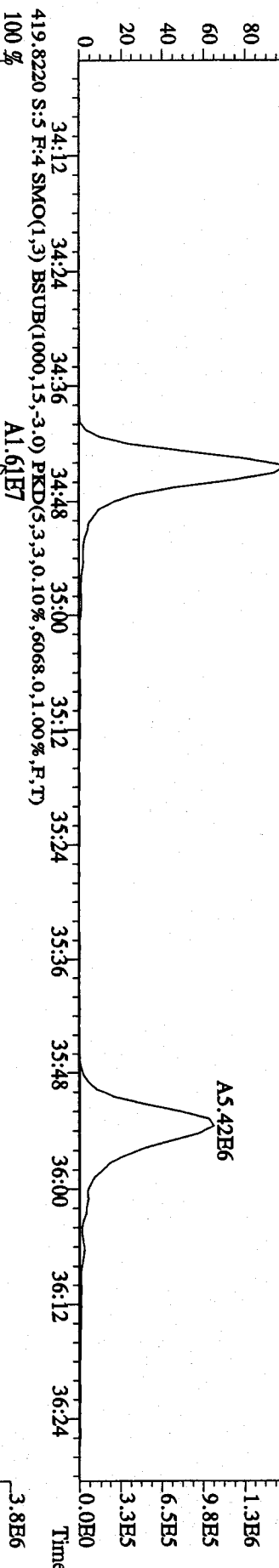
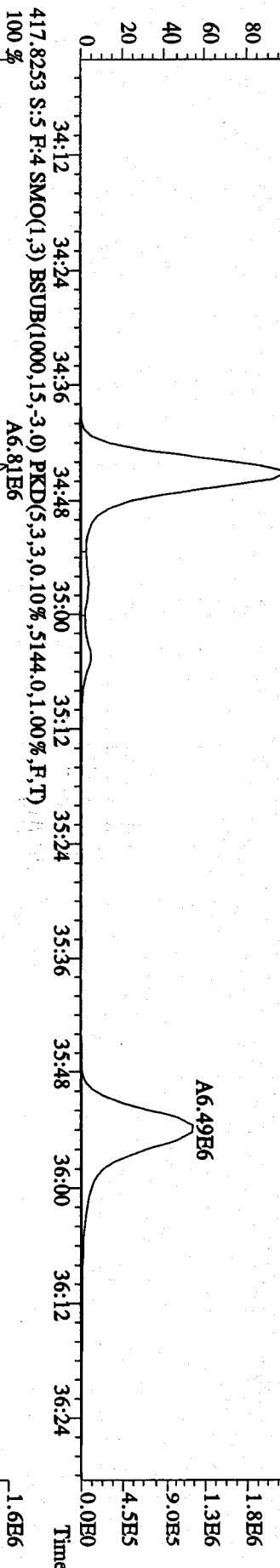
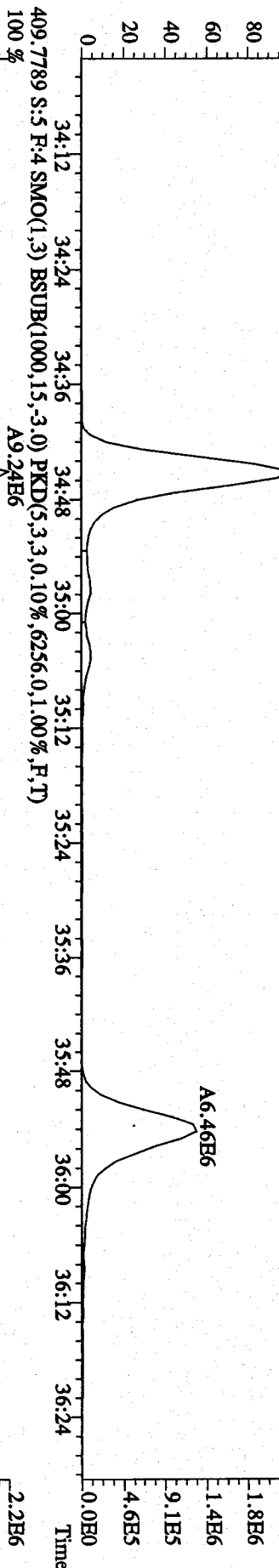
File:22DE09A4D5 #1-314 Acq:23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:LRFL-1-AC :G9L1210000-435C Exp:DIOXIN
 373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6972.0,1.00%,F,T)
 100 %



File:22DIB09A4D5 #1-314 Acq:23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:LRF9L-1-AC :G9L210000-435C Exp:DIOXIN
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24.0,1.00%,F,T)
 100 %

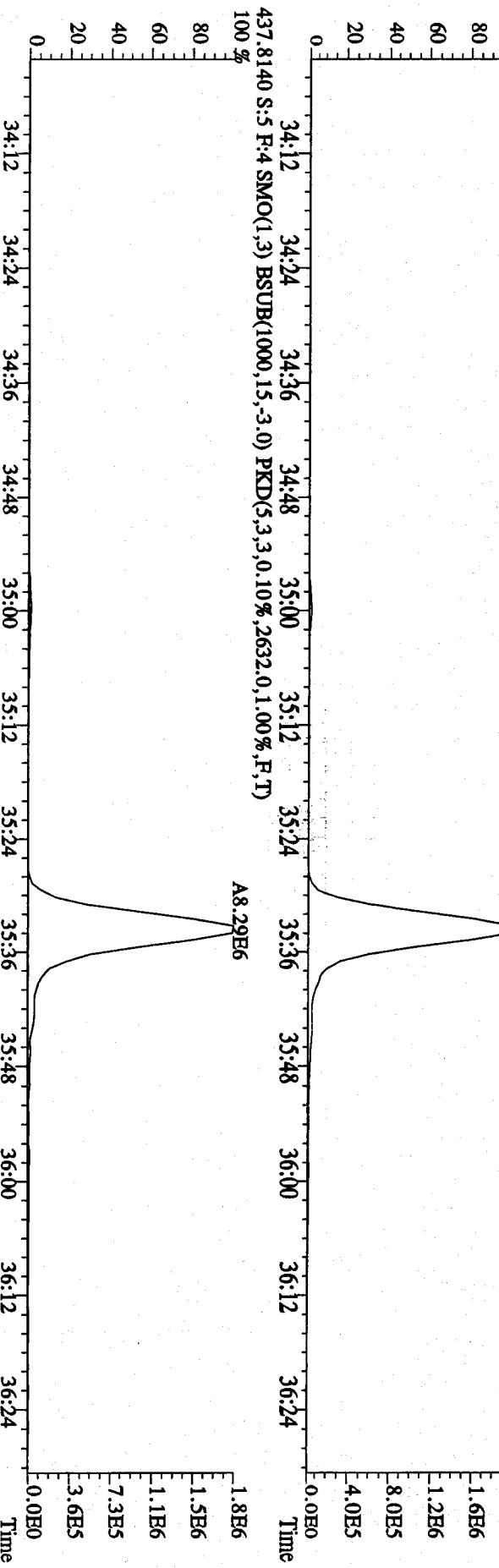
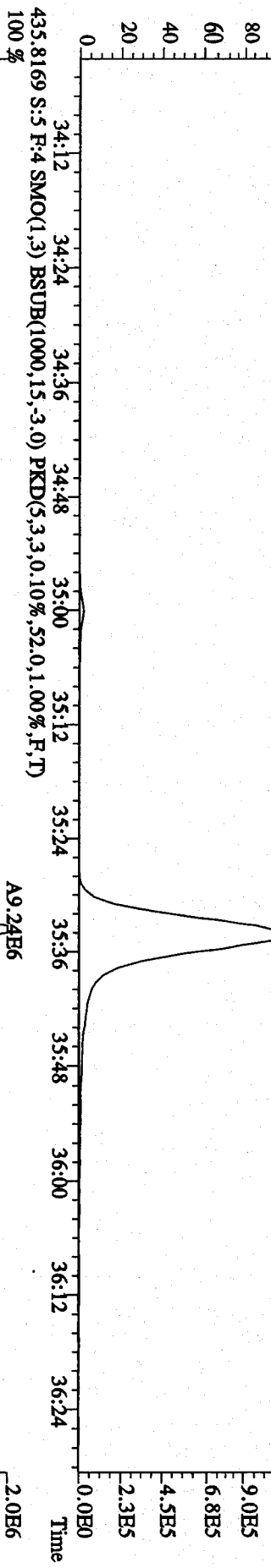
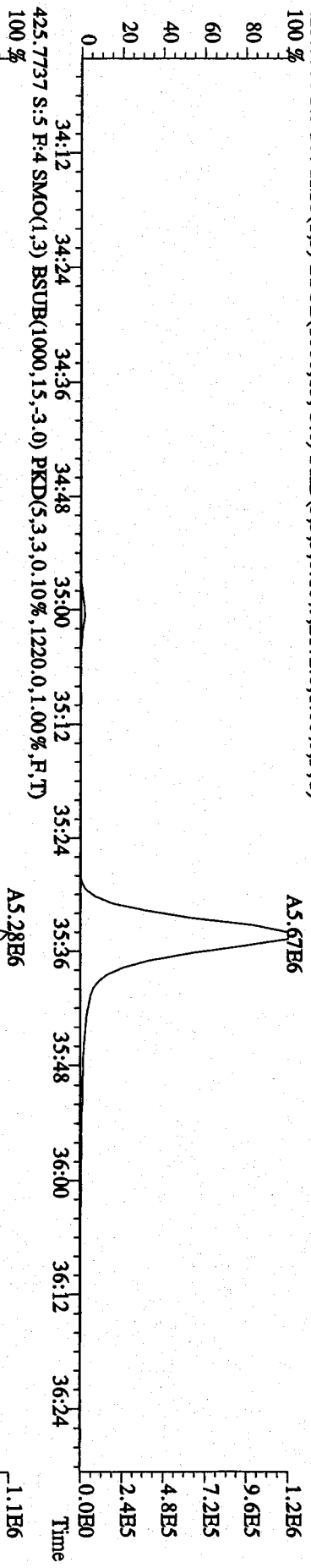


File: 22DE09A4D5 #1-198 Acq: 23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text: LRF9L-1-AC : G9L21000-435C Exp: DIOXIN
 407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3220.0,1.00%,F,T)
 100%

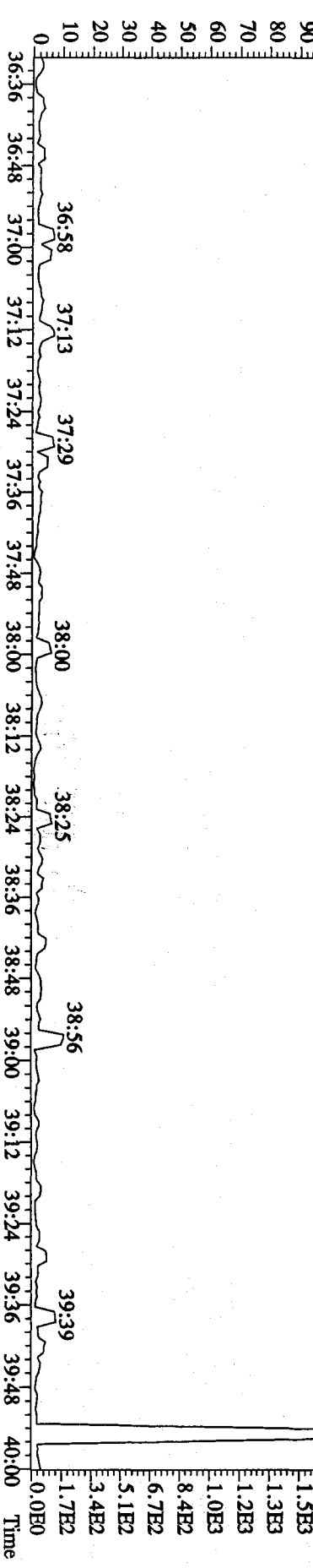
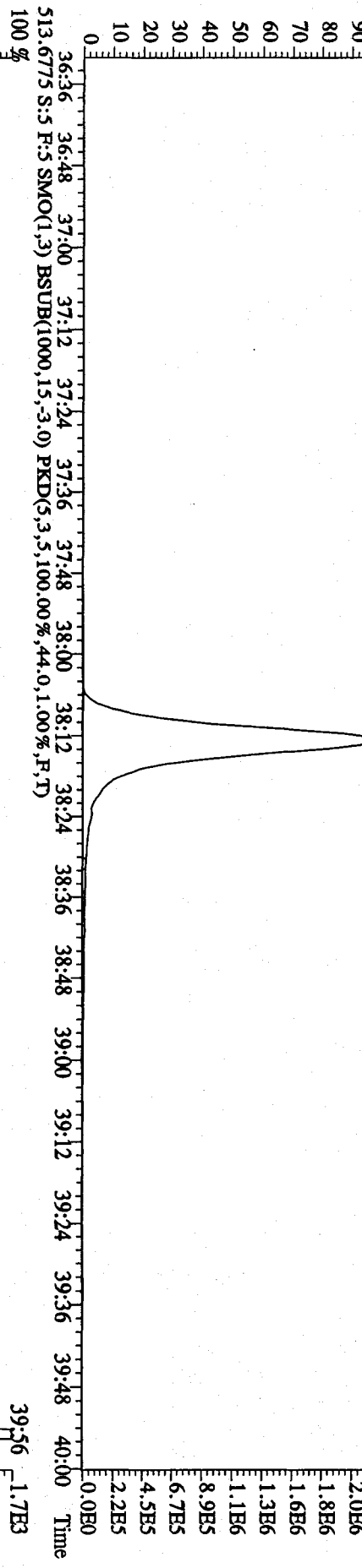
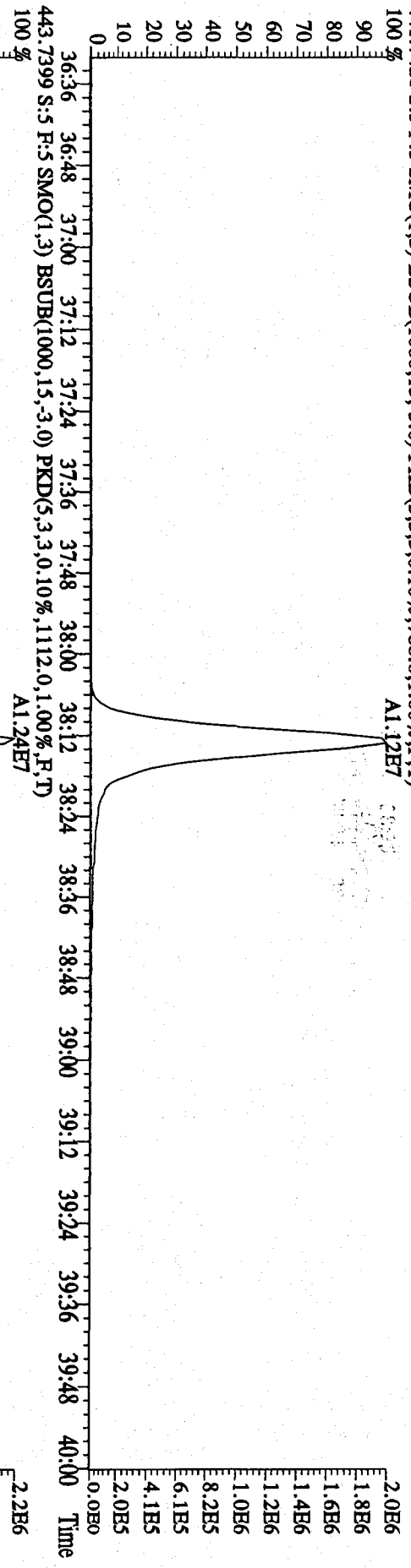


File:22DB09A4D5 #1-198 Acq:23-DEC-2009 00:22:16 GC EI + Voltage SIR Autospec-UltimaB

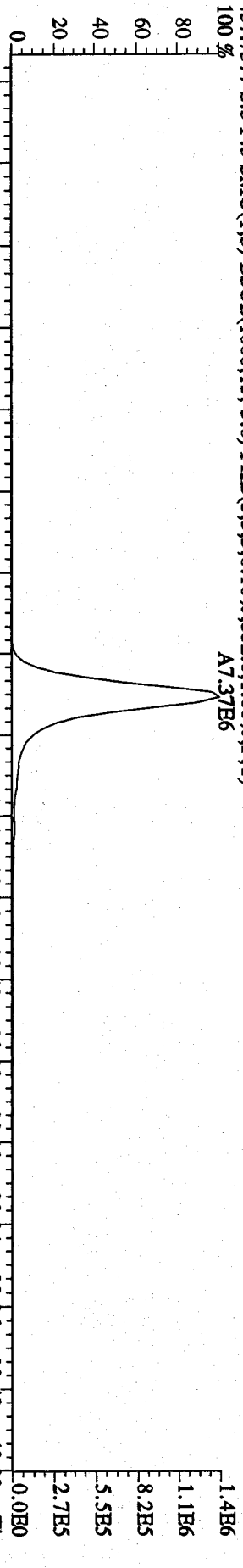
Sample#5 Text:LRP9L-1-AC :G9L210000-435C Exp:DIOXIN
423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2172,0,1,00%,F,T)
100%



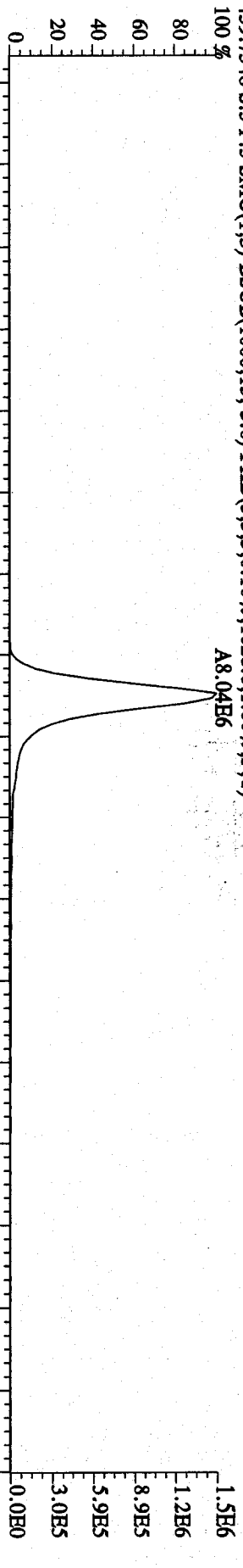
File:22DBE9A4D5 #1-281 Acq:23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:LRF9L-1-AC :G9L210000-435C Exp:DIOXIN
 441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,788.0,1.00%,F,T) A1.12E7



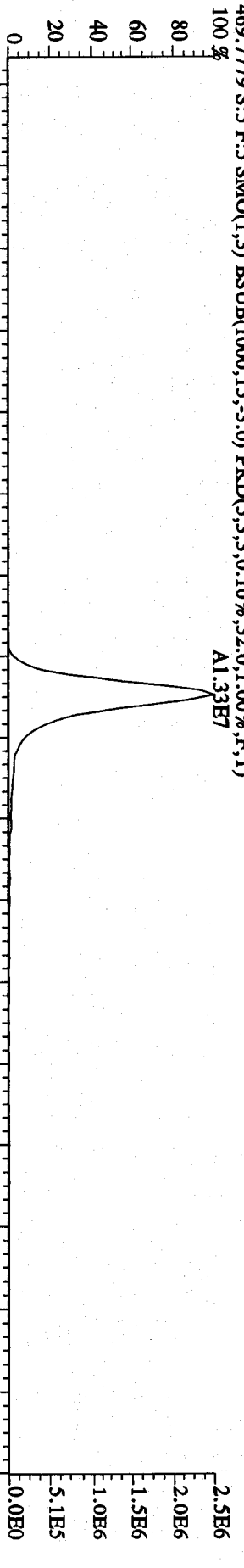
File:22DE09A4D5 #1-281 Acq:23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:LRP9L-1-AC :G9L210000-435C Exp:DIOXIN
 457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,552.0,1.00%,F,T)
 100 % A7.37E6



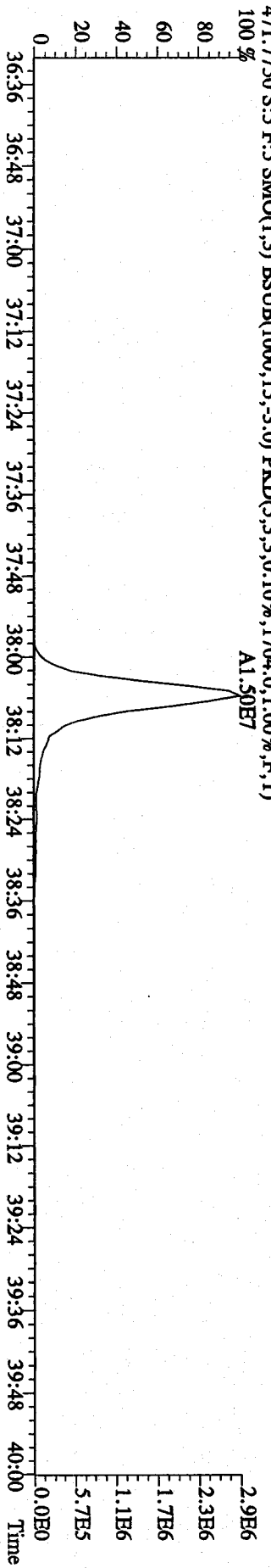
459.7348 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1028.0,1.00%,F,T)
 100 % A8.04E6



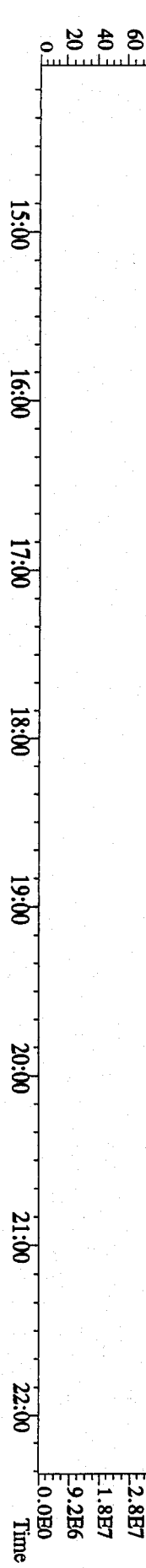
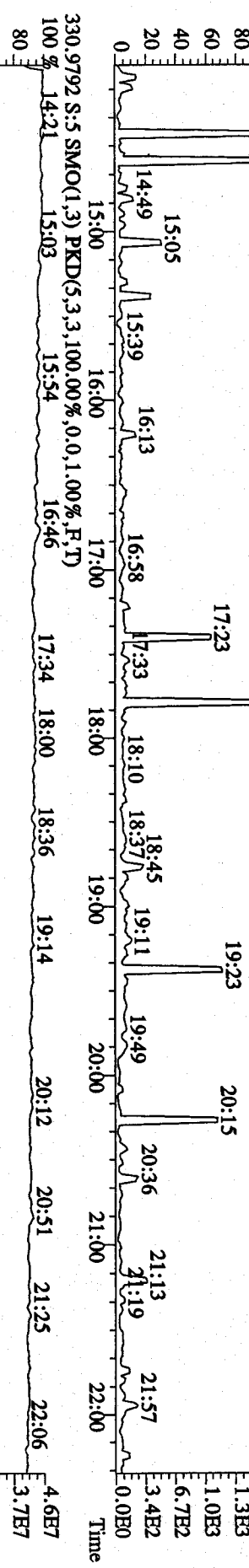
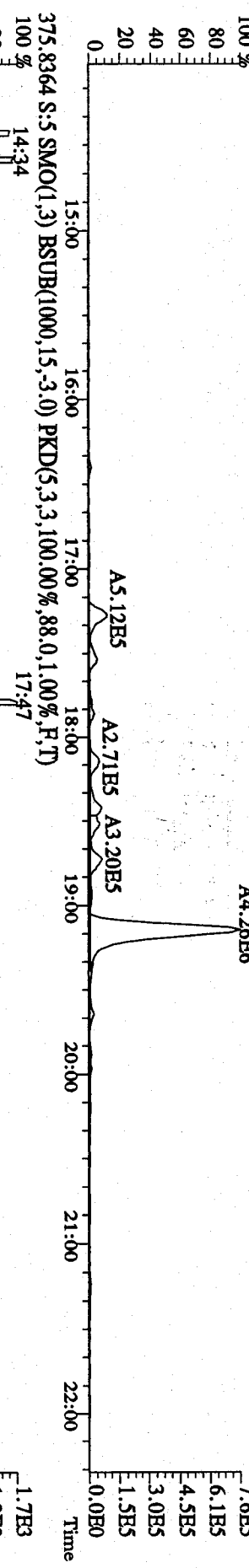
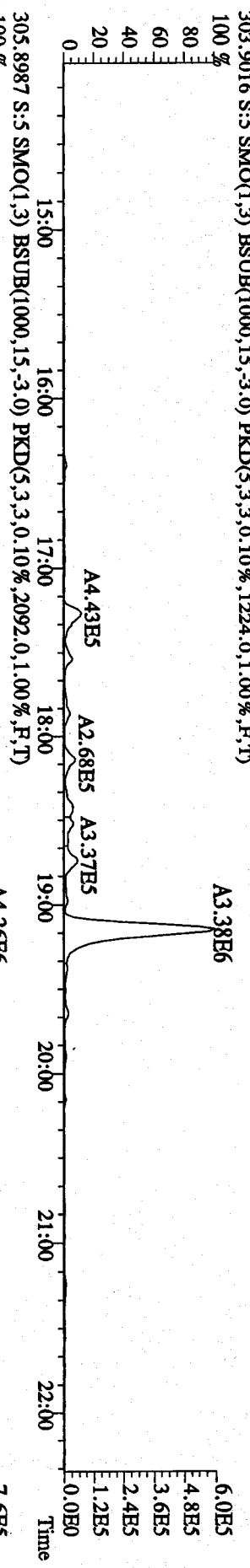
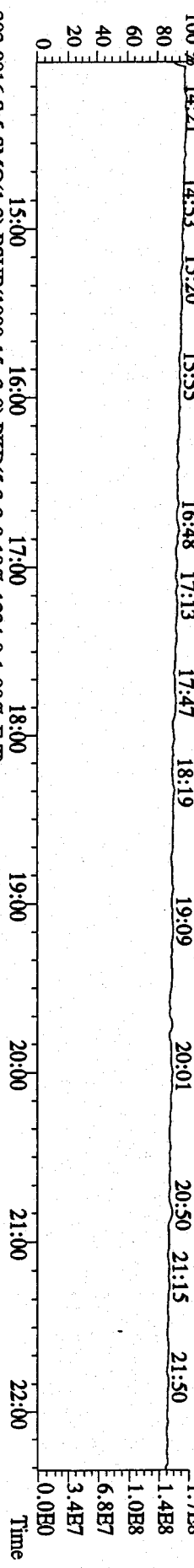
469.7779 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32.0,1.00%,F,T)
 100 % A1.33E7

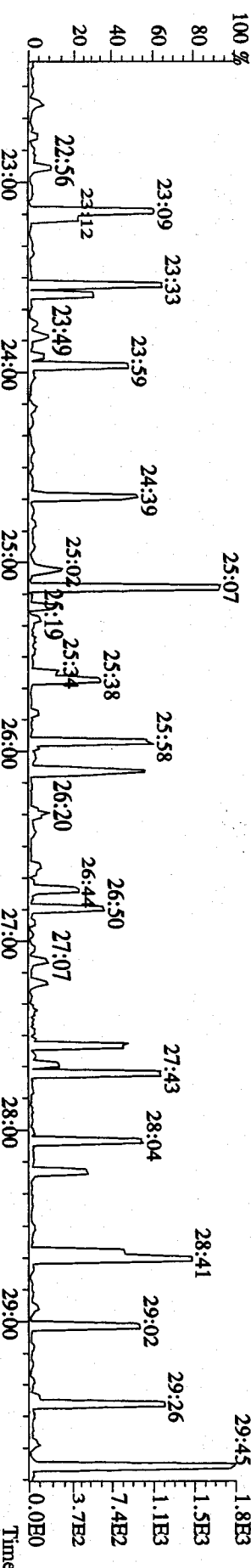
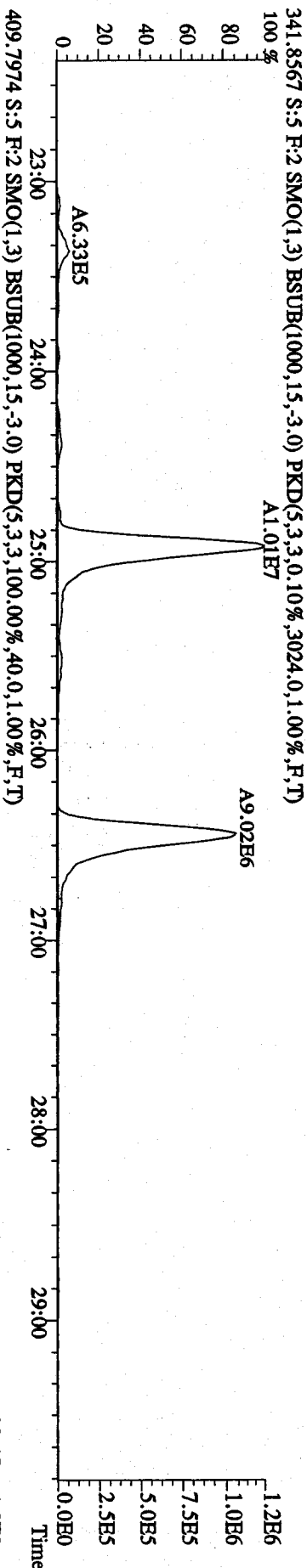
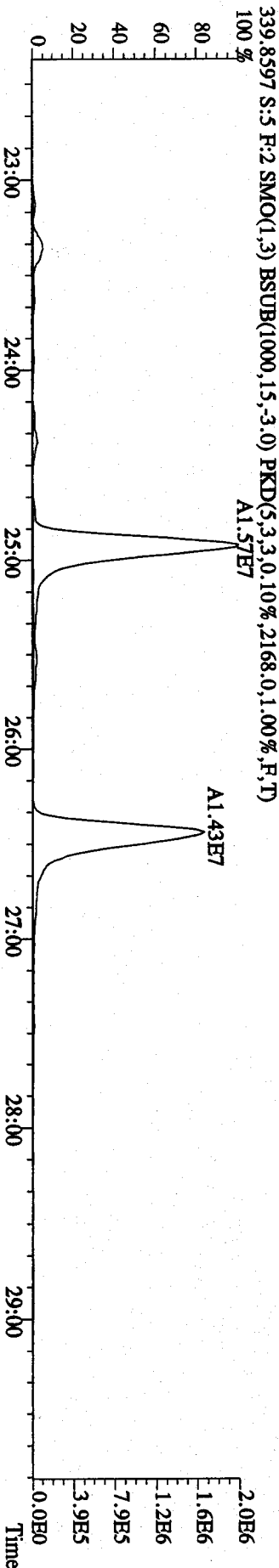
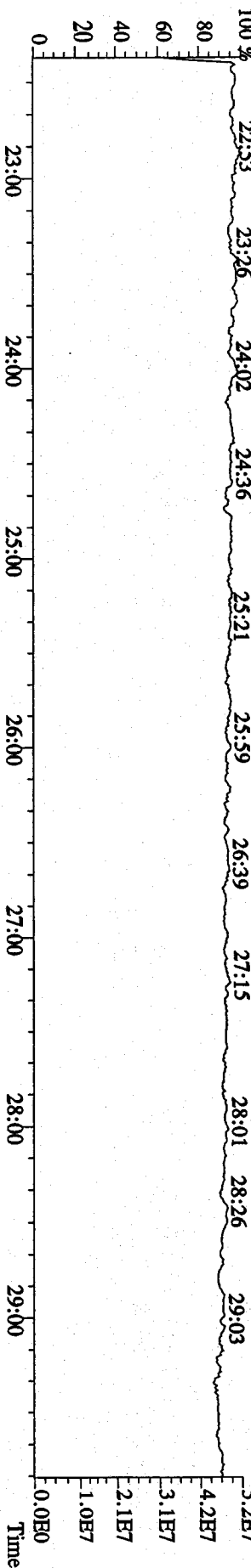


471.7750 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1704.0,1.00%,F,T)
 100 % A1.50E7

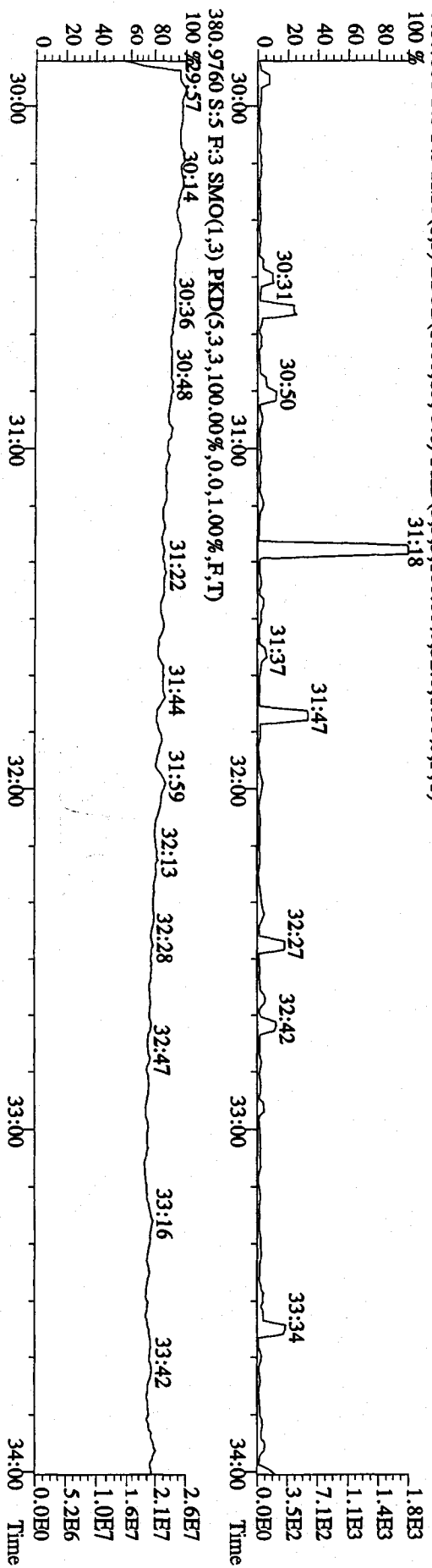
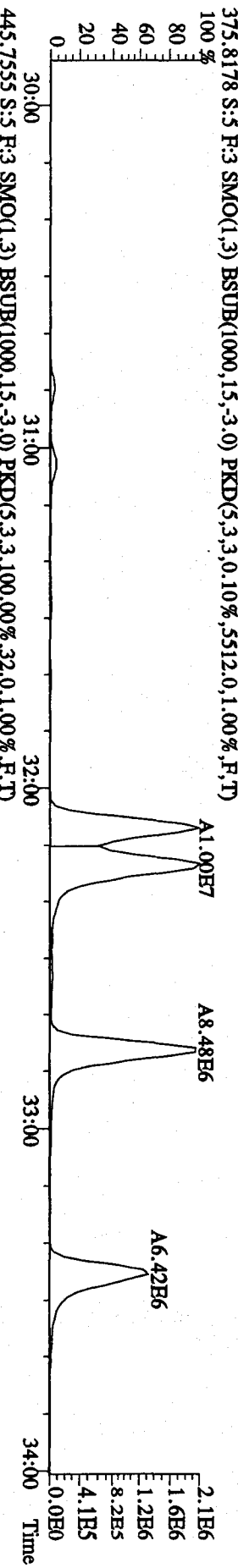
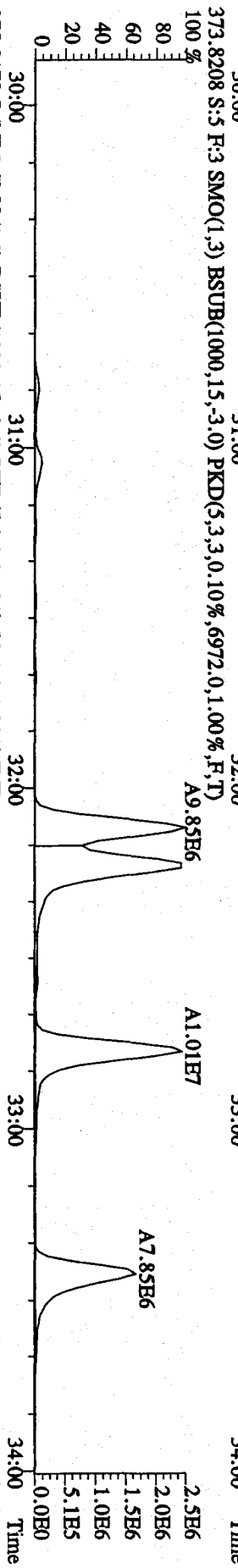
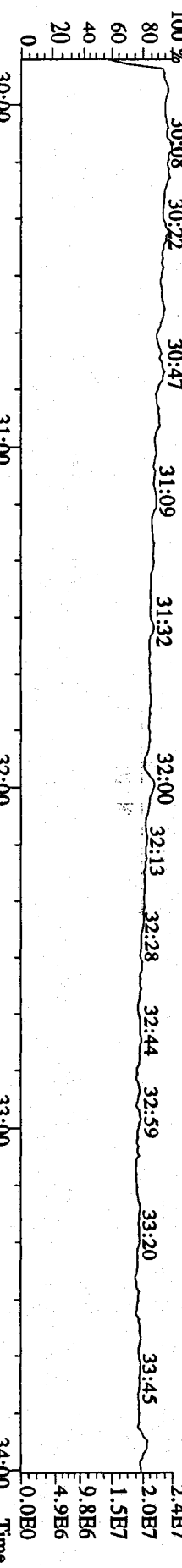


File:22DE09A4D5 #1-578 Acq:23-DEC-2009 00:22:16 GC EI + Voltage SIR Autospec-UltimaE
 Sample#5 Tex:LRP9L-1-AC :G9L210000-435C Exp:DIOXIN
 292.9825 S:5 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)





Sample#5 Text:LRP9L-1-AC :G9L210000-435C Exp:DIOXIN

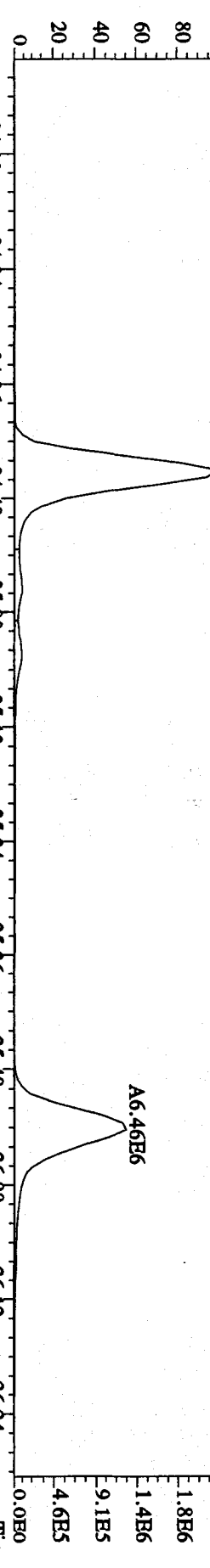


Sample#5 Tex:LRF9L-1-AC :G9L210000-435C Exp:DIOXIN

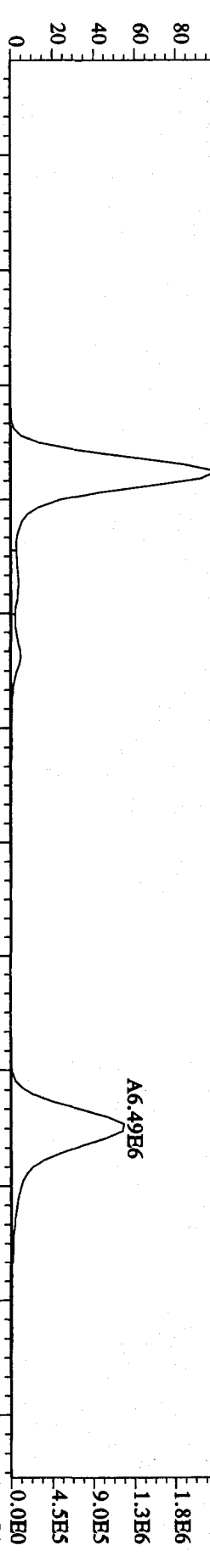
430.9728 S:5 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



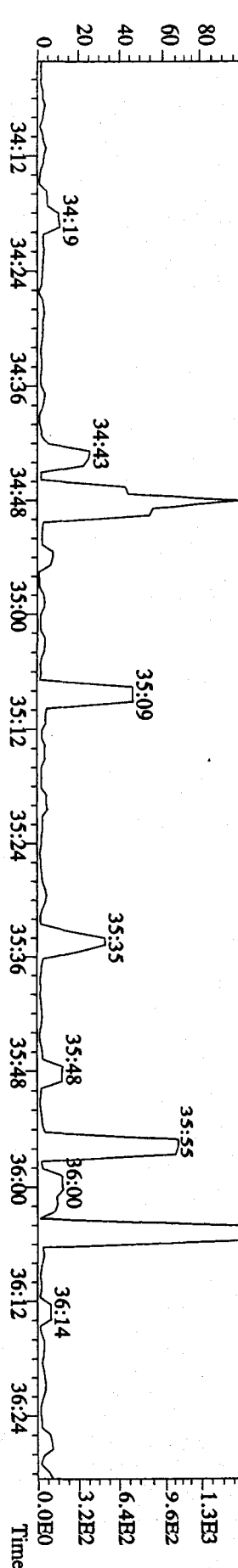
407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3220.0,1.00%,F,T)



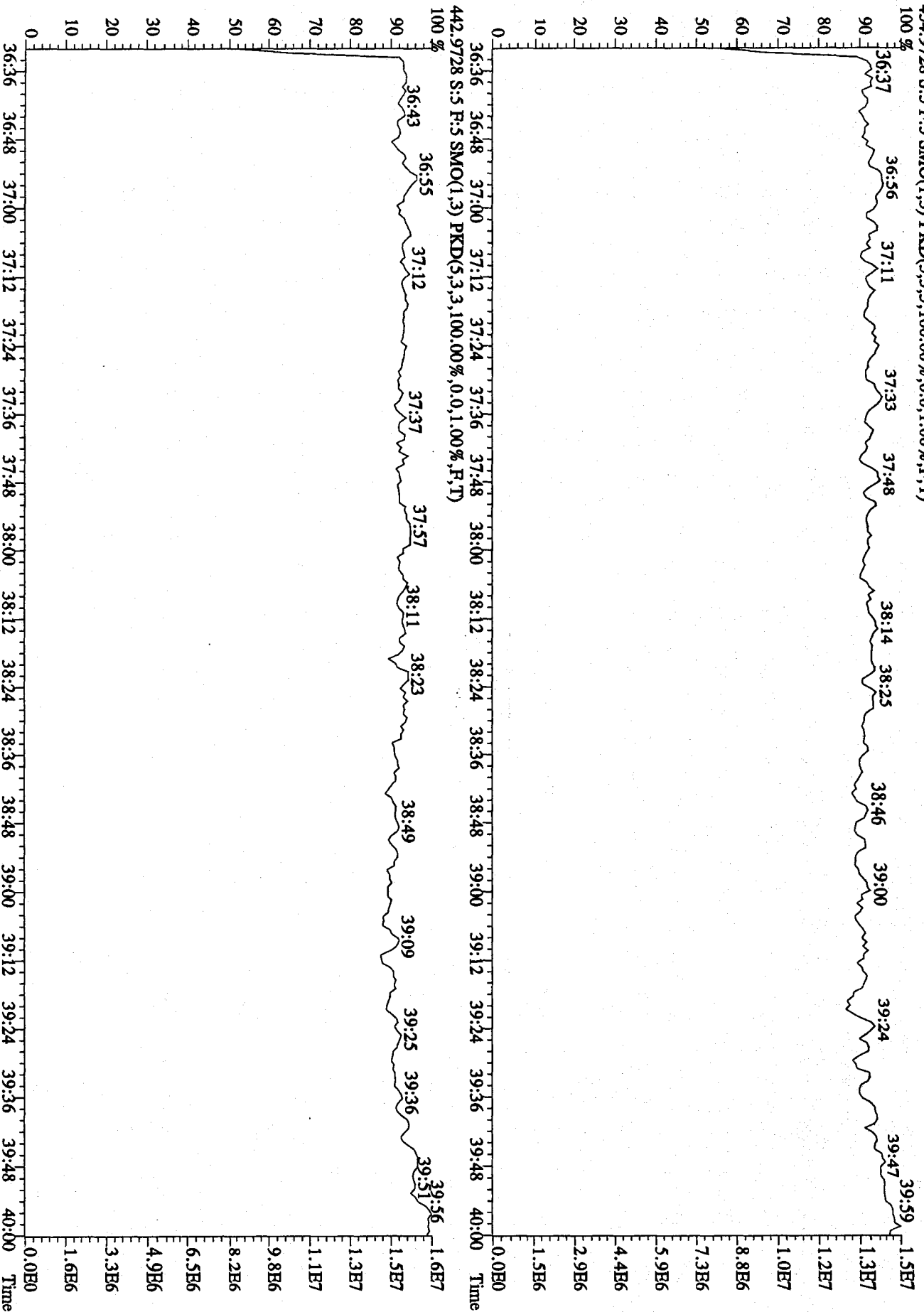
409.7789 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6256.0,1.00%,F,T)



479.7165 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,44.0,1.00%,F,T)



File: 22DHE09A4D5 #1-281 Acq: 23-DEC-2009 00:22:16 GC EI+ Voltage SIR Autospec-UltimaB
 Sample# 5 Text: LRF9L-1-AC : G9L210000-435C Exp: DIOXIN
 454.9728 S: 5 F: 5 SMO(1,3) PKD(5,3,3,100,00%,0.0,1.00%,F,T)

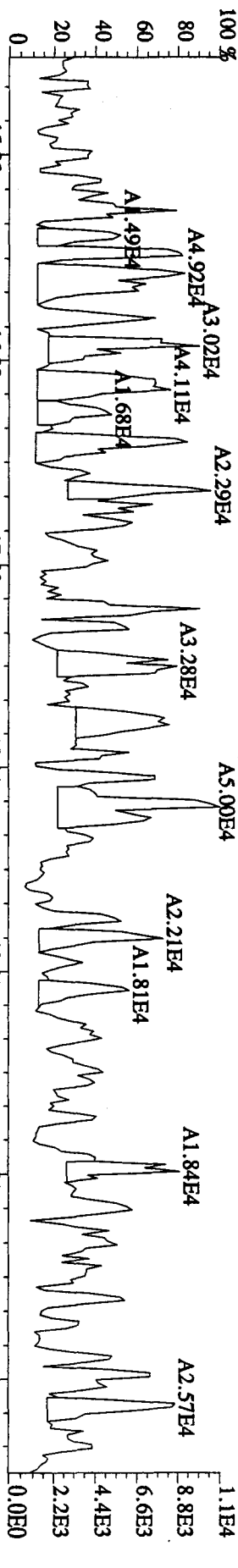


Run text: LRNEV-1-AA Sample text: LRNEV-1-AA :G9L280000-386B
 Run #8 Filename: 04JA10A1D5 S: 4 I: 1 Results: 04JA10A1D58290
 Acquired: 4-JAN-10 16:28:12 Processed: 4-JAN-10 17:53:56
 Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.0000µg

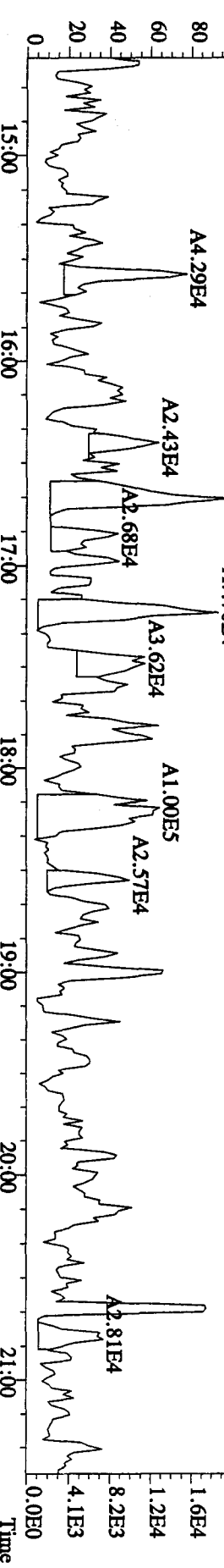
M. J. ...
1/5/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	83148000	0.78 y	18:44	-	2.67	-	-	n
13C-2,3,7,8-TCDF	100792500	0.78 y	18:11	1.57	77.41	0.17	38.7	n
2,3,7,8-TCDF	114837	0.50 n	18:12	0.86	0.27	0.33	-	n
Total TCDF	350314	1.15 n	15:34	0.86	0.81	0.33	-	n
13C-2,3,7,8-TCDD	73350900	0.83 y	18:56	0.99	88.81	0.56	44.4	n
2,3,7,8-TCDD	*	* n	NotFnd	0.93	*	0.44	-	n
Total TCDD	*	* n	NotFnd	0.93	*	0.44	-	n
37Cl-2,3,7,8-TCDD	79821000	1.00 y	18:57	2.22	43.28	0.09	54.1	n
13C-1,2,3,7,8-PeCDF	73222500	1.62 y	23:36	1.07	82.08	0.22	41.0	n
1,2,3,7,8-PeCDF	114186	1.76 y	23:38	1.00	0.31	0.53	-	n
2,3,4,7,8-PeCDF	*	* n	NotFnd	0.94	*	0.57	-	n
Total F2 PeCDF	469286	1.95 n	22:09	0.97	1.31	0.55	-	n
Total F1 PeCDF	260148	0.56 n	16:06	0.97	0.73	0.56	-	n
13C-1,2,3,7,8-PeCDD	49200800	1.62 y	25:48	0.67	88.80	0.20	44.4	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.93	*	0.78	-	n
Total PeCDD	*	* n	NotFnd	0.93	*	0.78	-	n
13C-1,2,3,7,8,9-HxCDD	58390300	1.28 y	32:52	-	2.13	-	-	n
13C-1,2,3,4,7,8-HxCDF	49639300	0.50 y	31:28	0.89	95.22	0.18	47.6	n
1,2,3,4,7,8-HxCDF	286596	1.12 y	31:29	1.20	0.96	0.48	-	n
1,2,3,6,7,8-HxCDF	167095	0.80 n	31:39	1.37	0.49	0.42	-	n
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.24	*	0.46	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.33	*	0.43	-	n
Total HxCDF	794387	0.95 n	30:02	1.28	2.52	0.45	-	n
13C-1,2,3,6,7,8-HxCDD	50987700	1.23 y	32:34	0.73	119.28	0.41	59.6	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	0.97	*	0.49	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.06	*	0.45	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.28	*	0.37	-	n
Total HxCDD	70517	0.49 n	30:49	1.10	0.25	0.43	-	n
13C-1,2,3,4,6,7,8-HpCDF	47004000	0.42 y	34:37	0.86	93.59	1.49	46.8	n
1,2,3,4,6,7,8-HpCDF	531536	0.89 y	34:38	1.29	1.76	0.48	-	n
1,2,3,4,7,8,9-HpCDF	179035	0.82 n	35:56	1.14	0.67	0.55	-	n
Total HpCDF	990715	0.89 y	34:38	1.21	3.41	0.51	-	n
13C-1,2,3,4,6,7,8-HpCDD	40195100	1.07 y	35:33	0.75	91.52	0.70	45.8	n
1,2,3,4,6,7,8-HpCDD	132057	1.45 n	35:36	1.00	0.66	0.59	-	n
Total HpCDD	210920	2.12 n	34:55	1.00	1.05	0.59	-	n
13C-OCDD	57023100	0.91 y	38:20	0.56	173.02	1.66	43.3	n
OCDF	887564	0.92 y	38:29	1.44	4.33	0.77	-	n
OCDD	135601	1.11 n	38:23	1.11	0.86	0.73	-	n

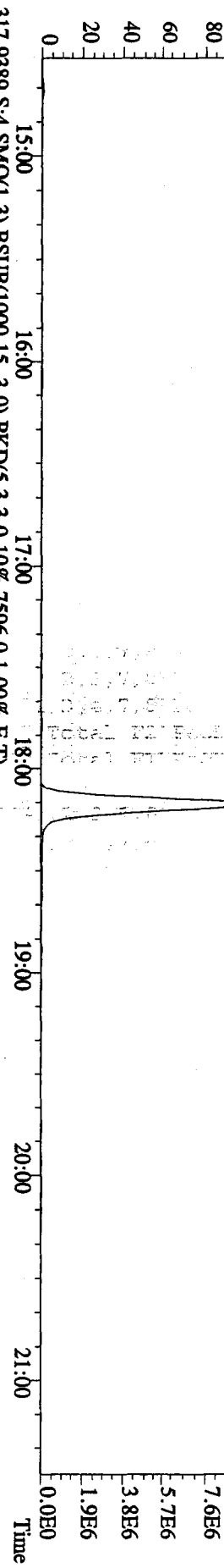
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRNEV-1-AA :G9L280000-386B Exp:DIOXIN
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4060,0,1.00%,F,T)



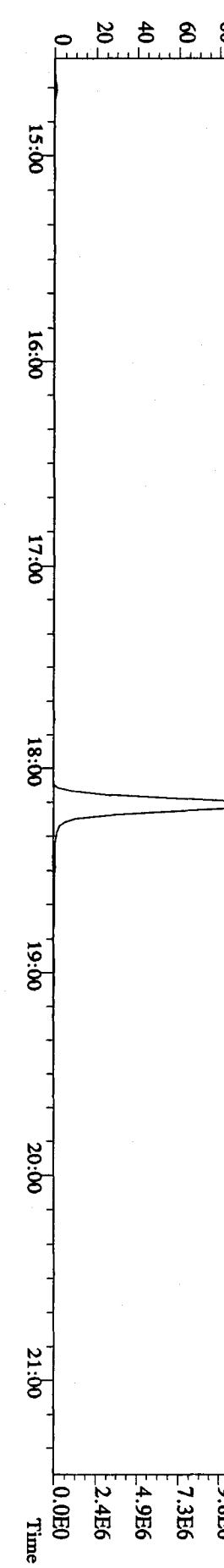
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6236,0,1.00%,F,T)



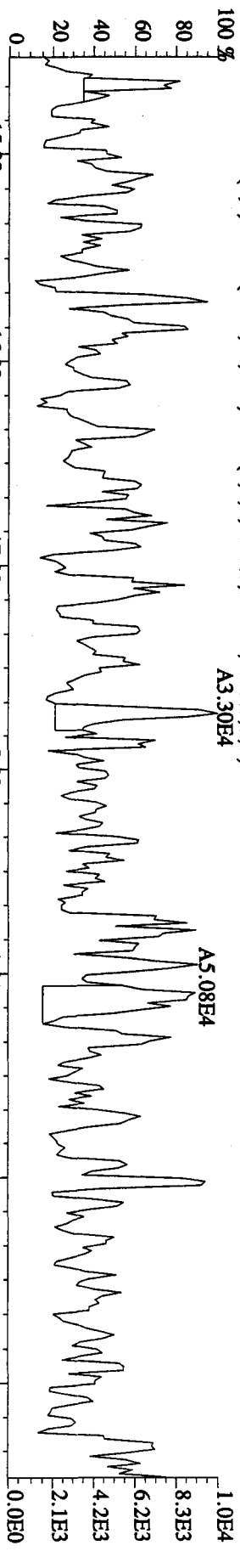
315.9419 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8912,0,1.00%,F,T)



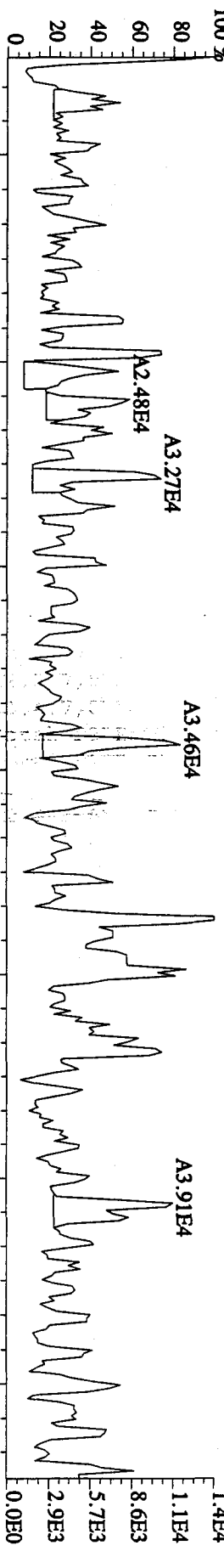
317.9389 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7596,0,1.00%,F,T)



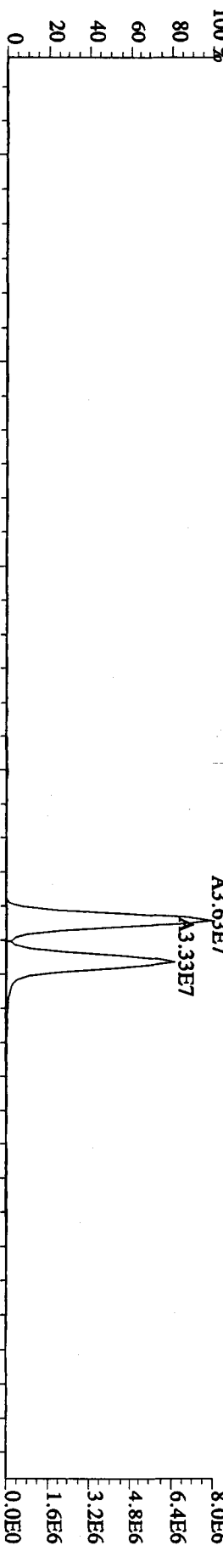
File:04JA10AID5 #1-411 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRNEV-1-AA :G91280000-386B Exp:DIOXIN
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5068,0,1,00%,F,T)
 100% A3.30E4



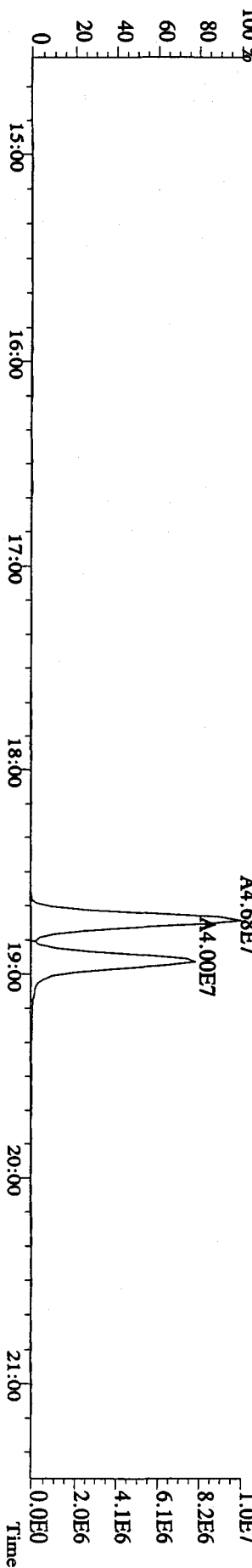
321.8936 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4796,0,1,00%,F,T)



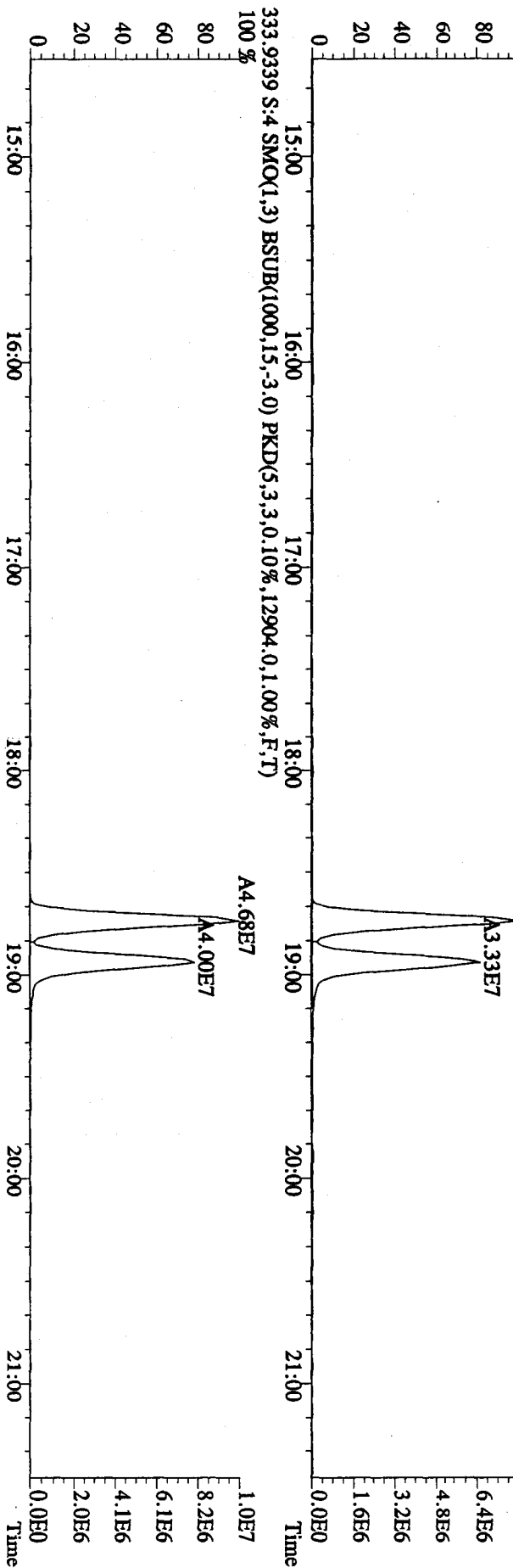
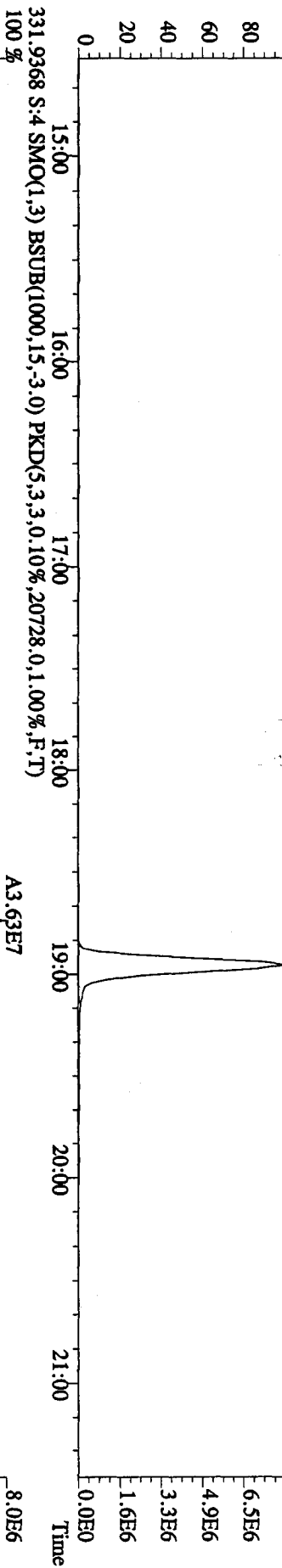
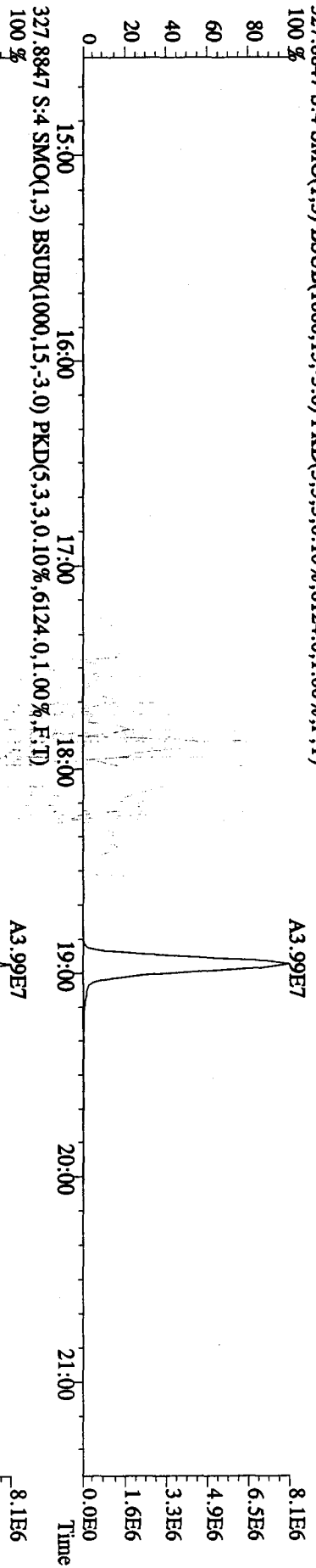
331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,20728,0,1,00%,F,T)



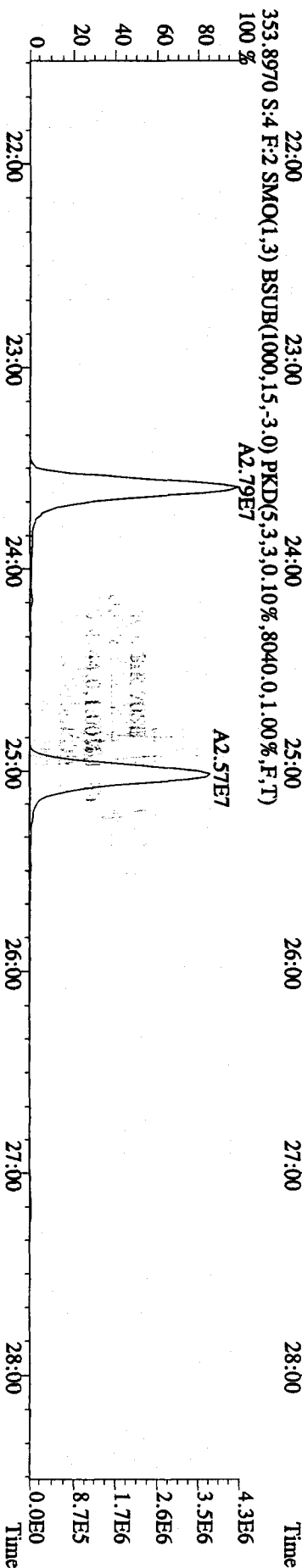
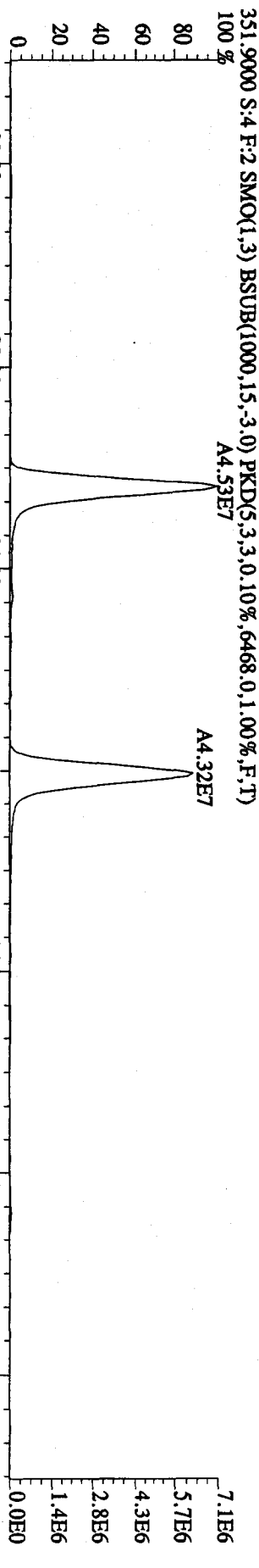
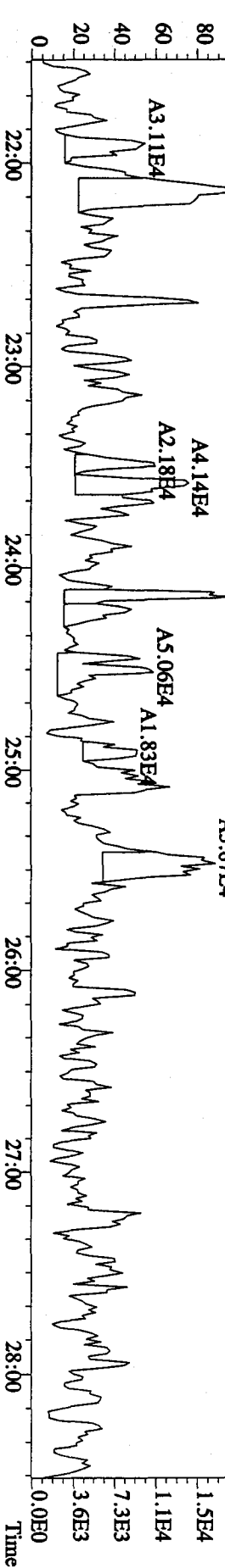
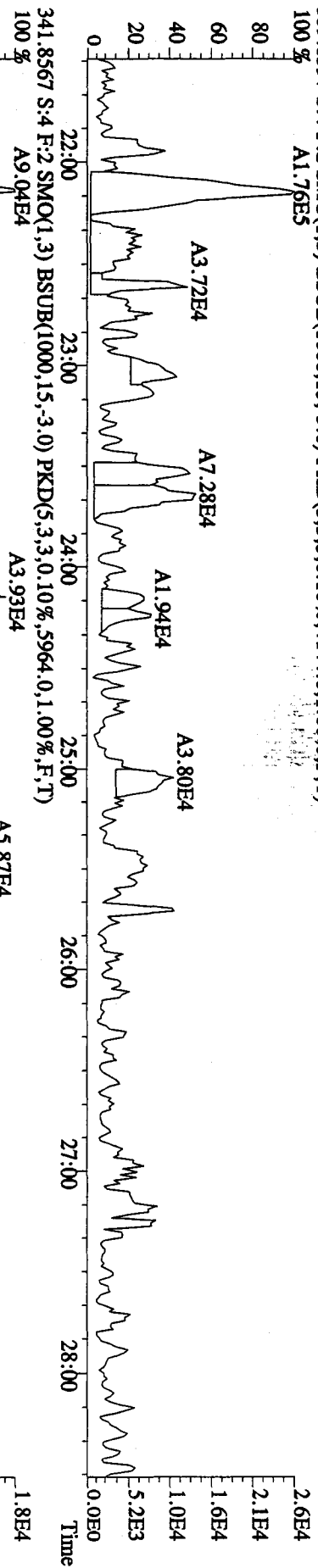
333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12904,0,1,00%,F,T)



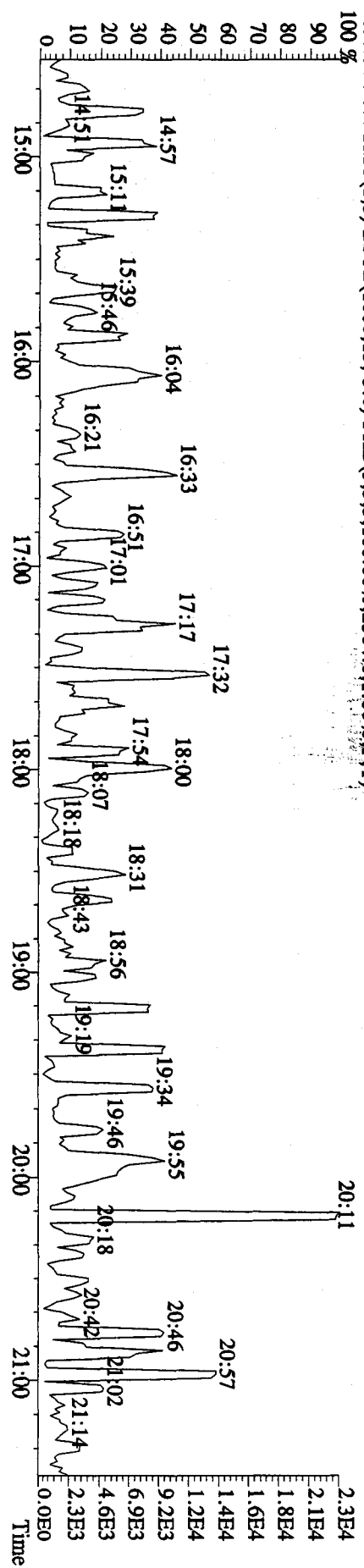
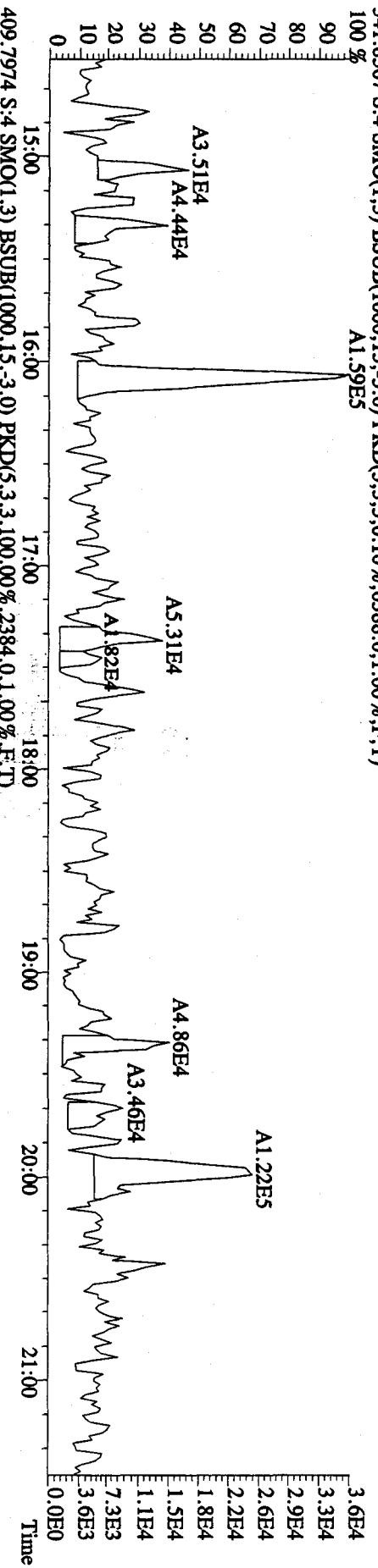
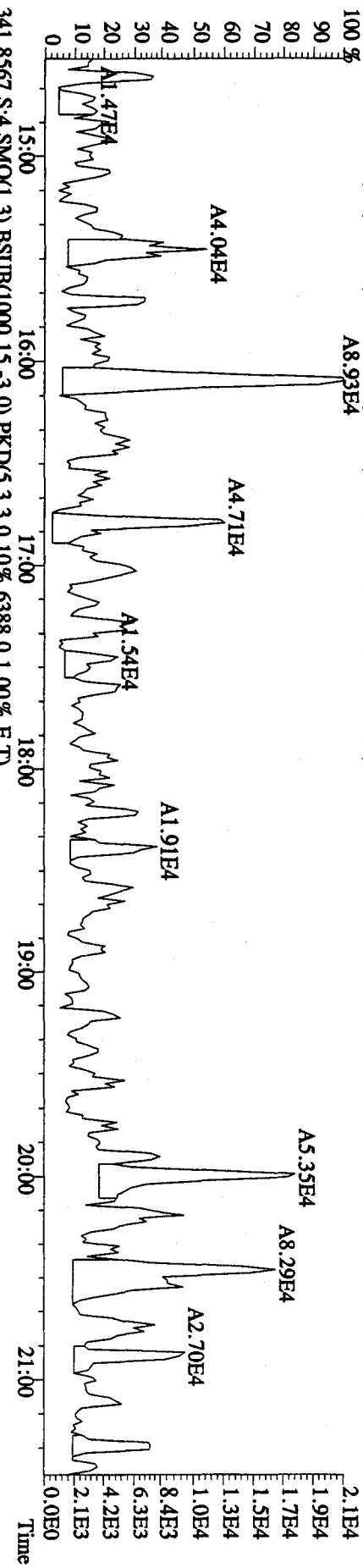
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE
Sample#4 Text:LRNEV-1-AA :G91280000-386B Exp:DIOXIN
327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6124,0,1.00%,F,T)



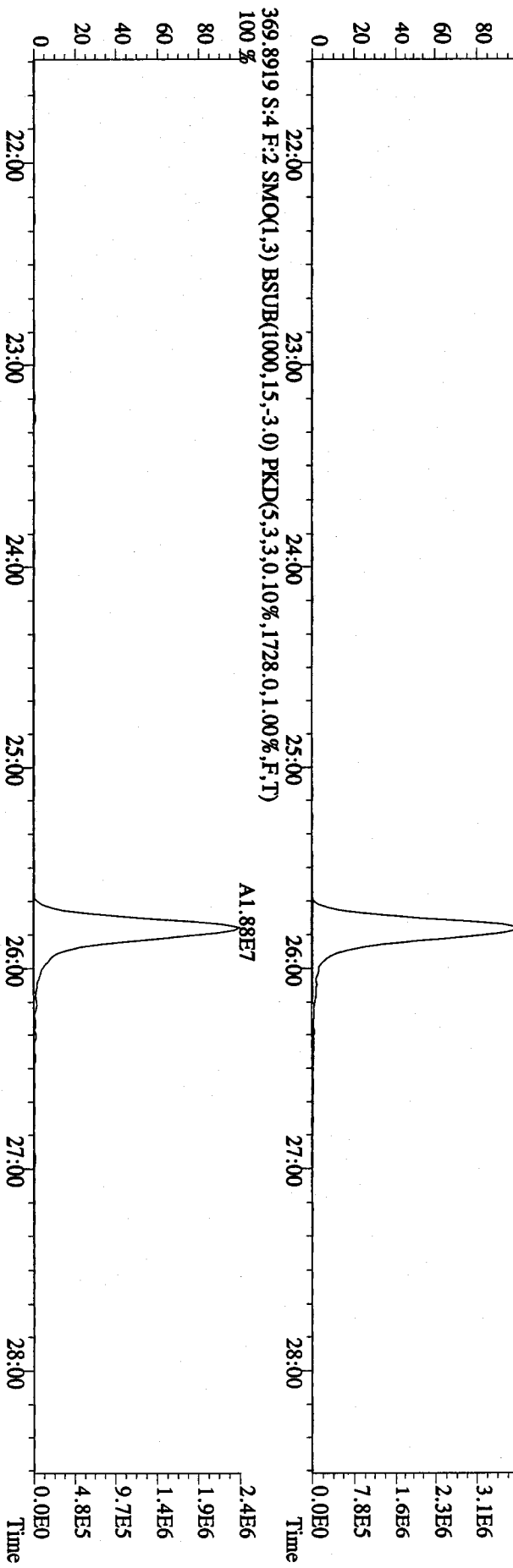
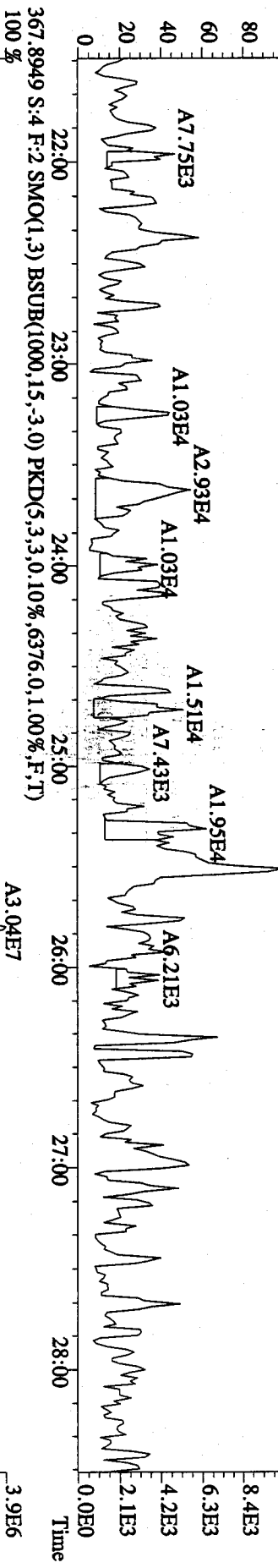
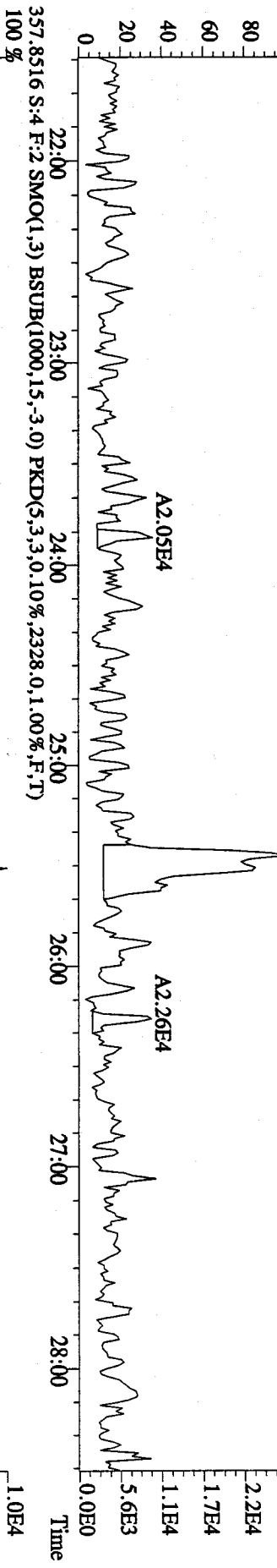
File:04JA10A1D5 #1-495 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRNEV-1-AA :G9128000-386B Exp:DIOXIN
 339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,4144.0,1.00%,F,T)
 100 % A1.76E5



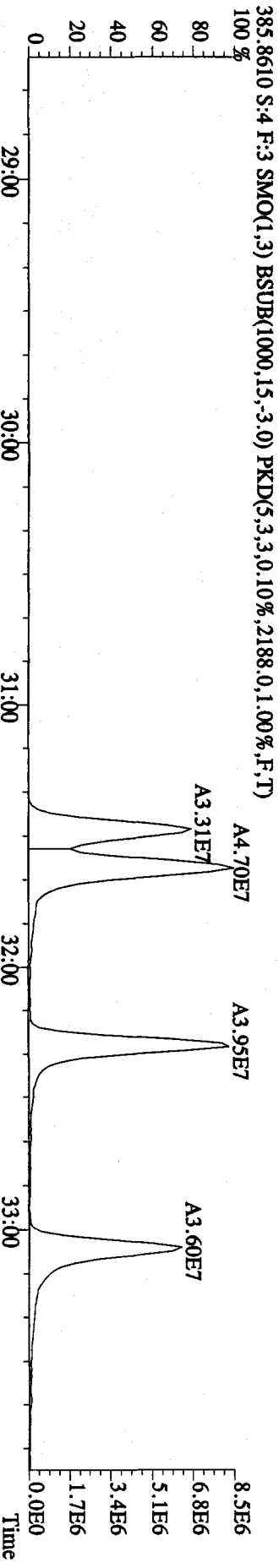
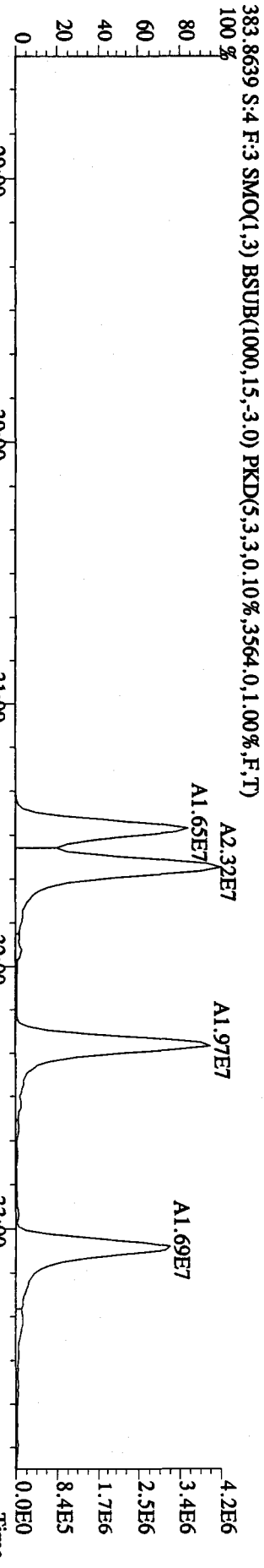
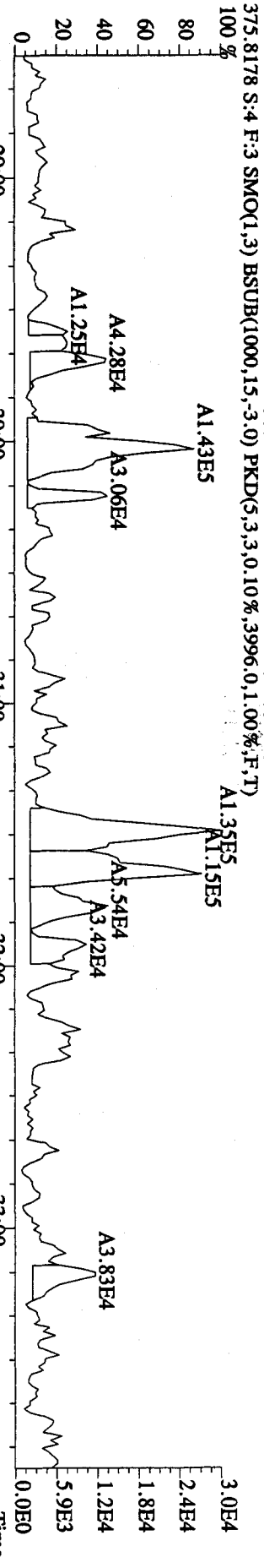
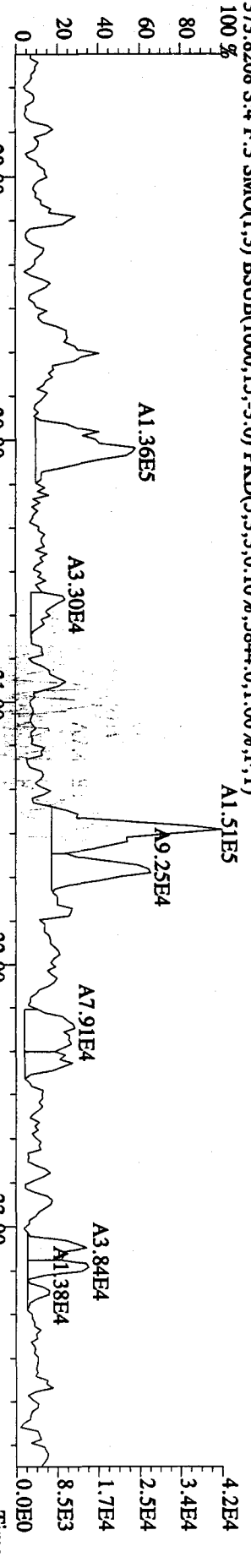
File: 041A10A1D5 #1-411 Acq: 4-JAN-2010 16:28:12 GC EI + Voltage SIR 70SE
 Sample#4 Text: LRNEV-1-AA :G9L280000-386B Exp: DIOXIN
 339.8597 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3884,0,1.00%,F,T)



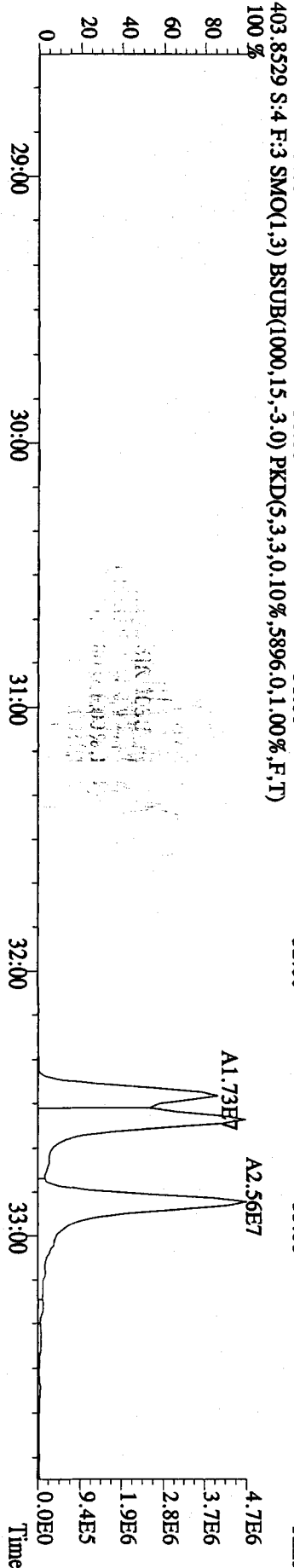
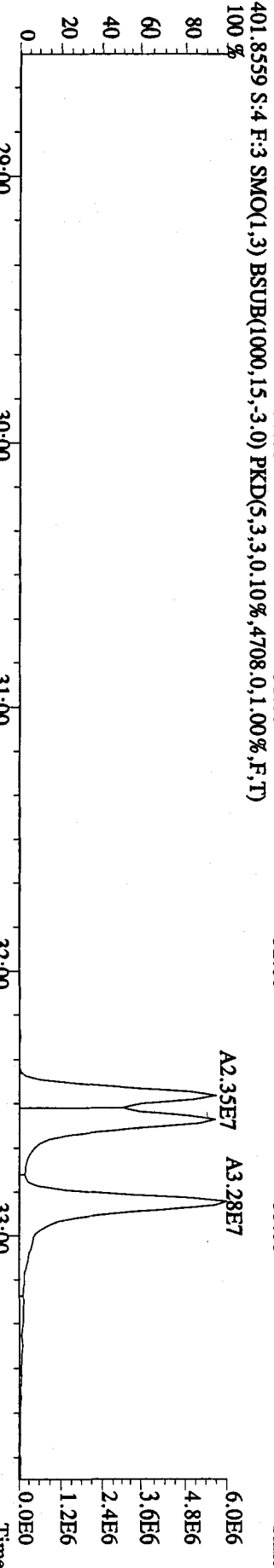
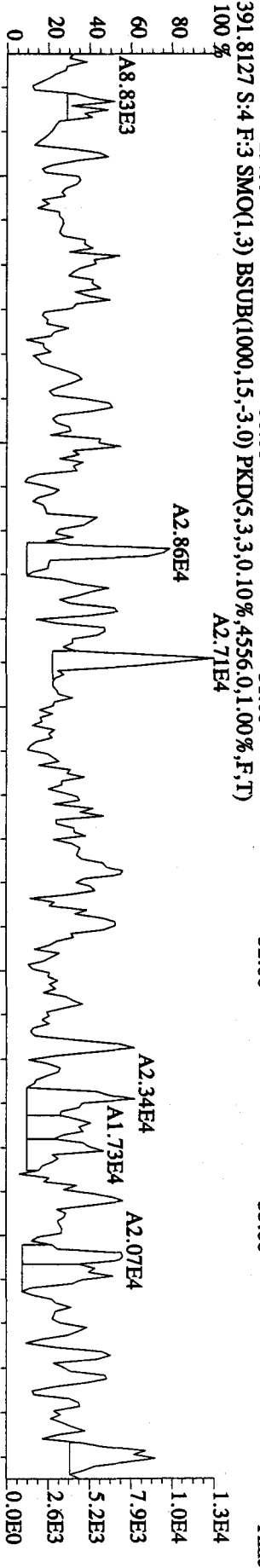
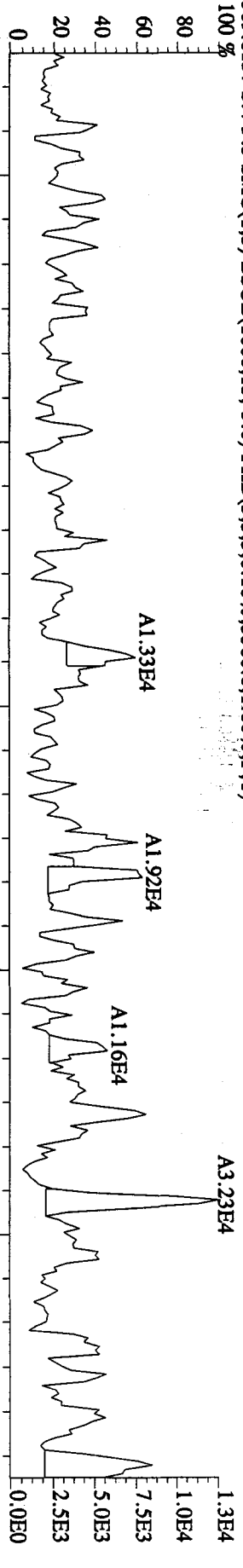
File:041A10A1D5 #1-495 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRNEV-1-AA :G9L28000-386B Exp:DIOXIN
 355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5280.0,1.00%,F,T)



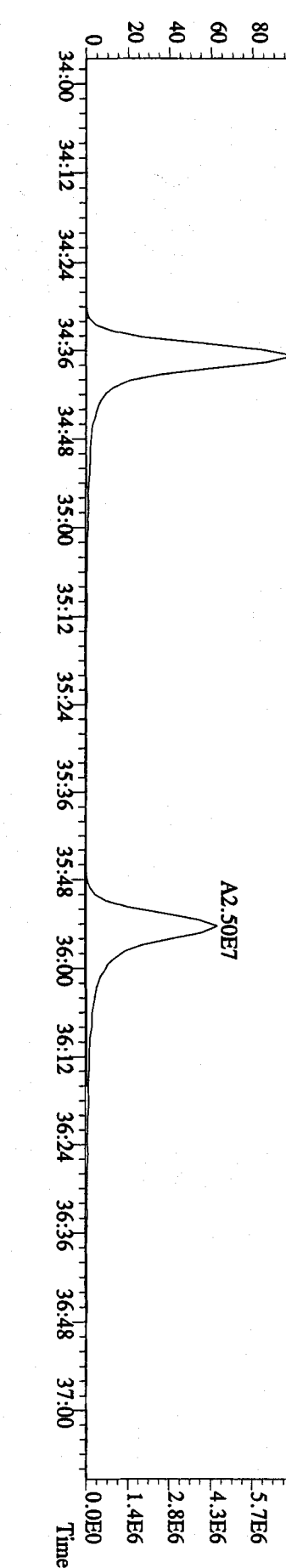
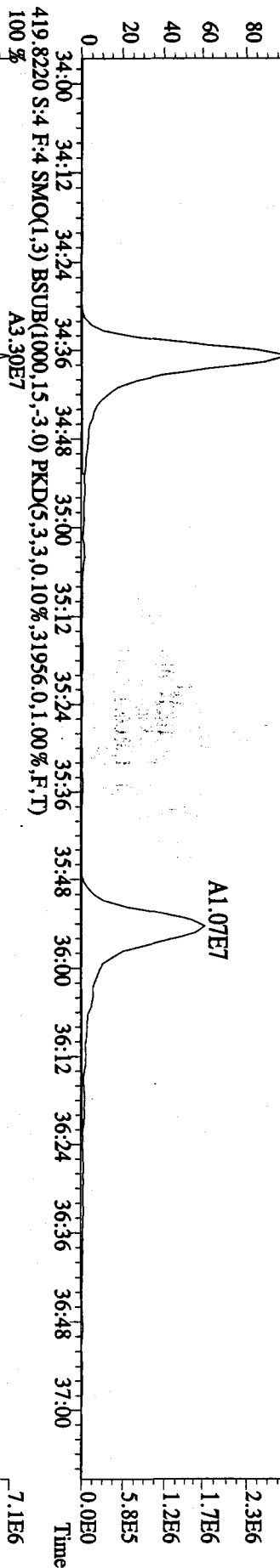
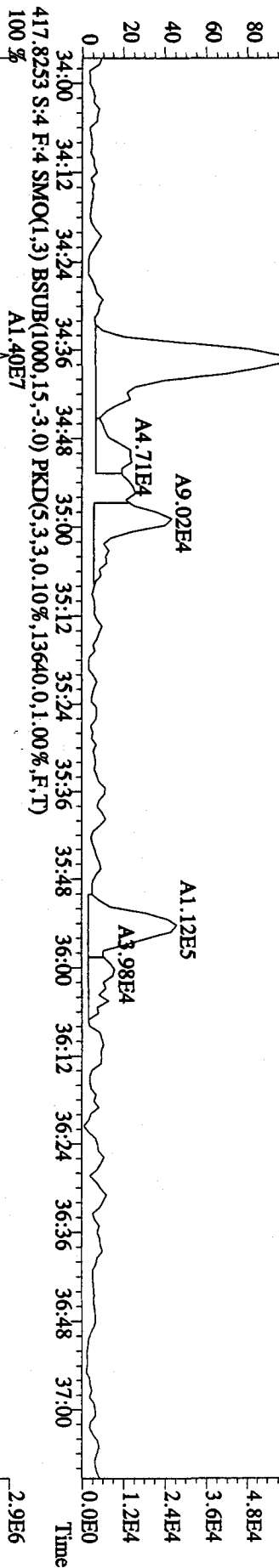
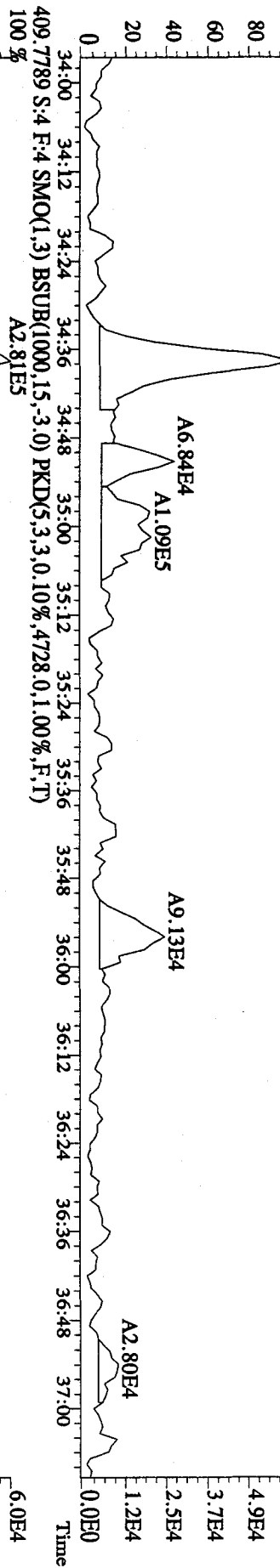
File:041A10A1D5 #1-362 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRNEV-1-AA :G9L280000-386B Exp:DIOXIN
 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.5844,0.1,00%,F,T)

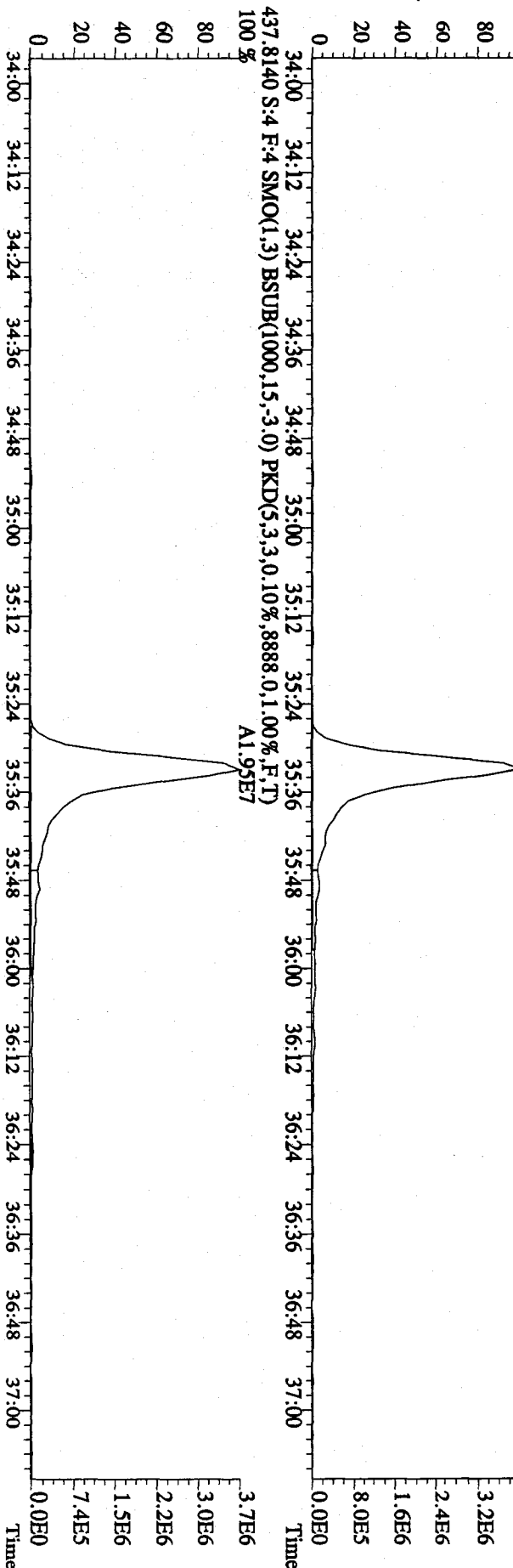
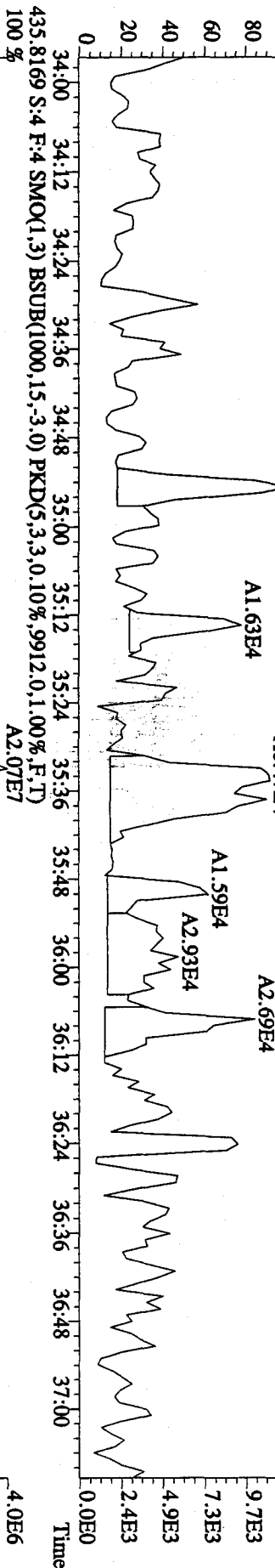
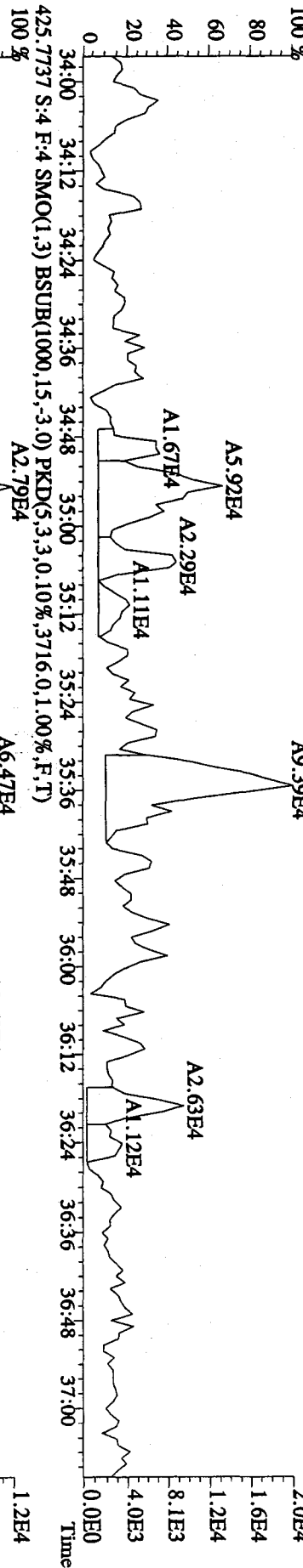


File:041A10A1D5 #1-362 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRNEV-1-AA :G9L28000-386B Exp:DIOXIN
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3580.0,1.00%,F,T)

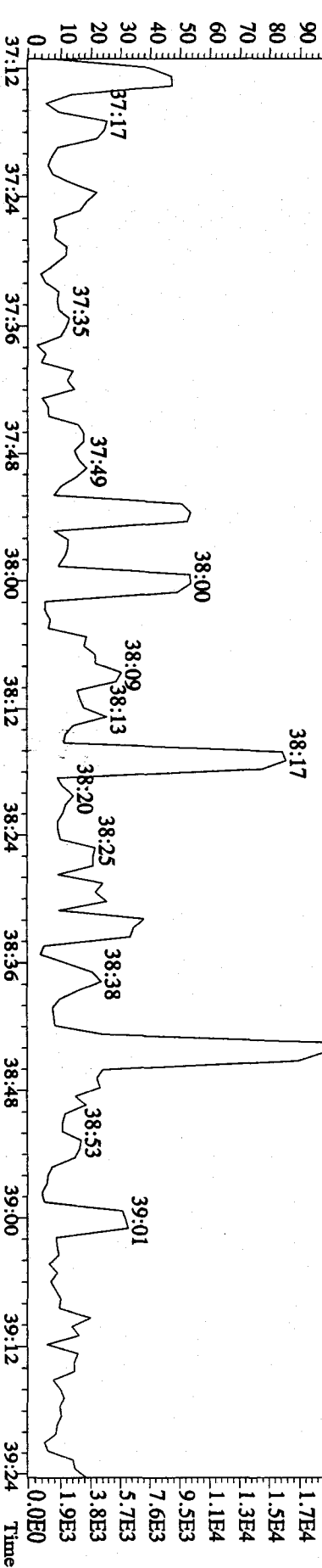
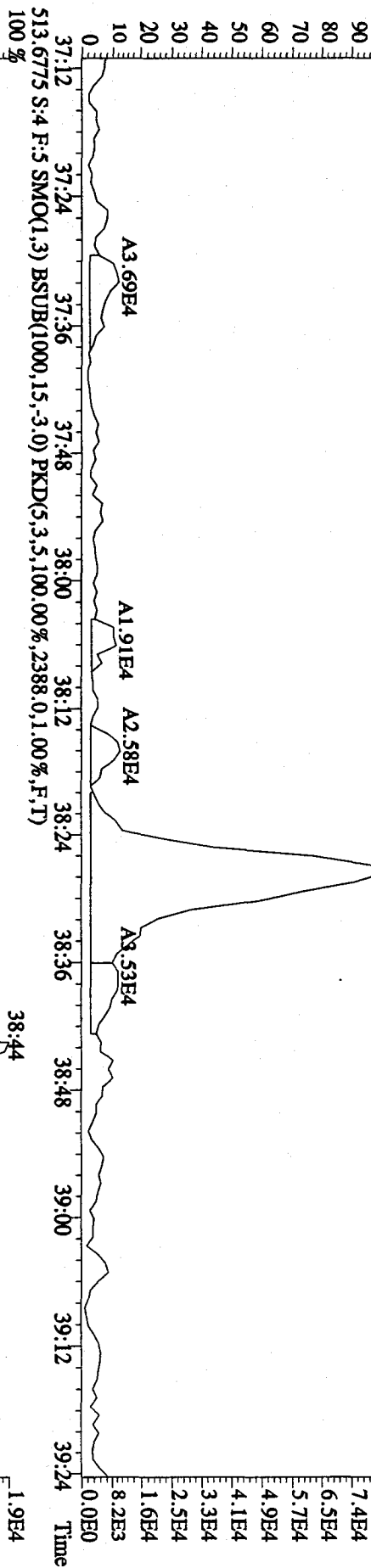
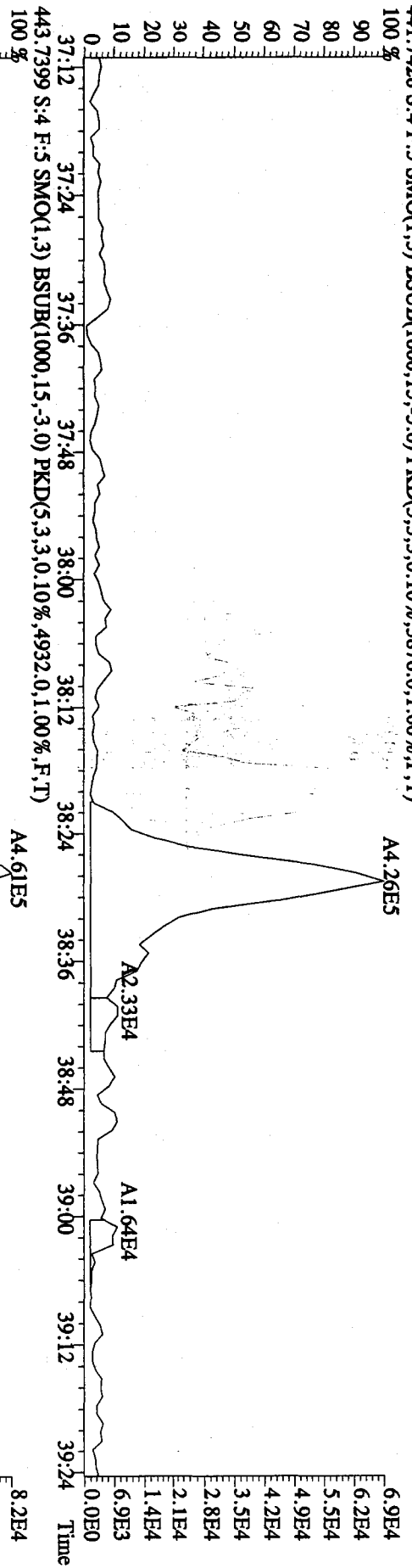


File:041A10A1D5 #1-227 Acq: 4-JAN-2010 16:28:12 GC EI + Voltage SIR 70SE
 Sample#4 Text:LRNEV-1-AA :G9L280000-386B Exp:DIOXIN
 407.7818 S:4 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5504,0,1,100%,F,T)
 100 %

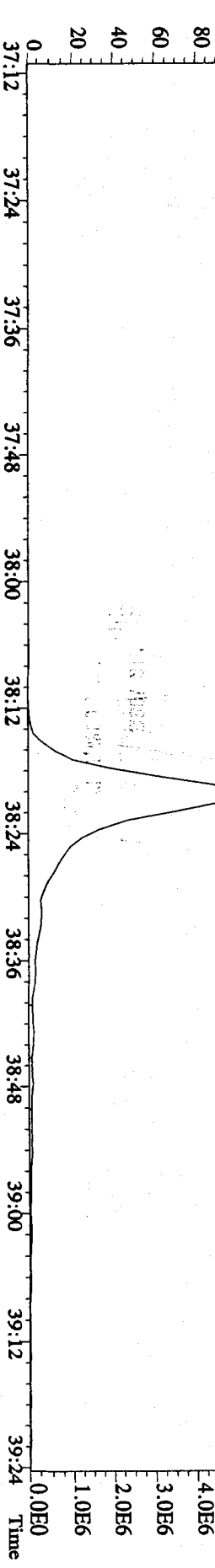
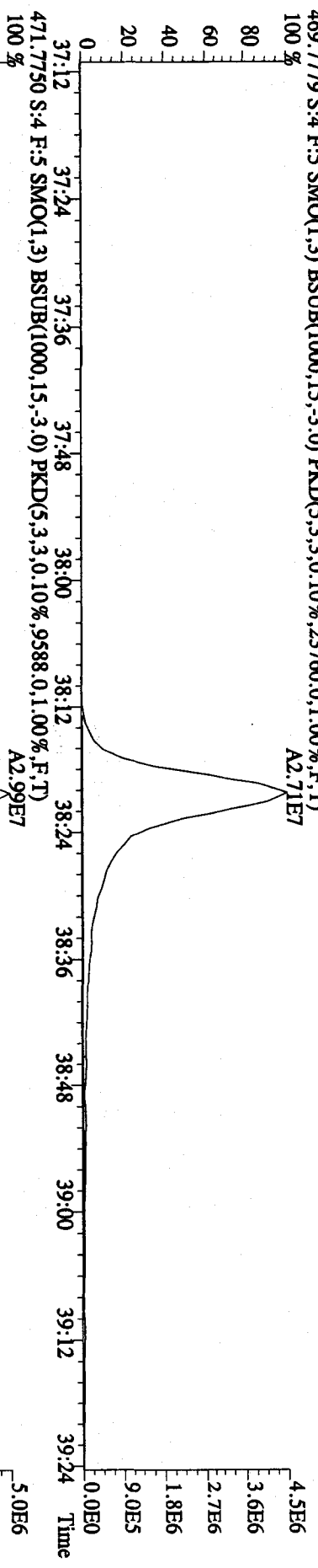
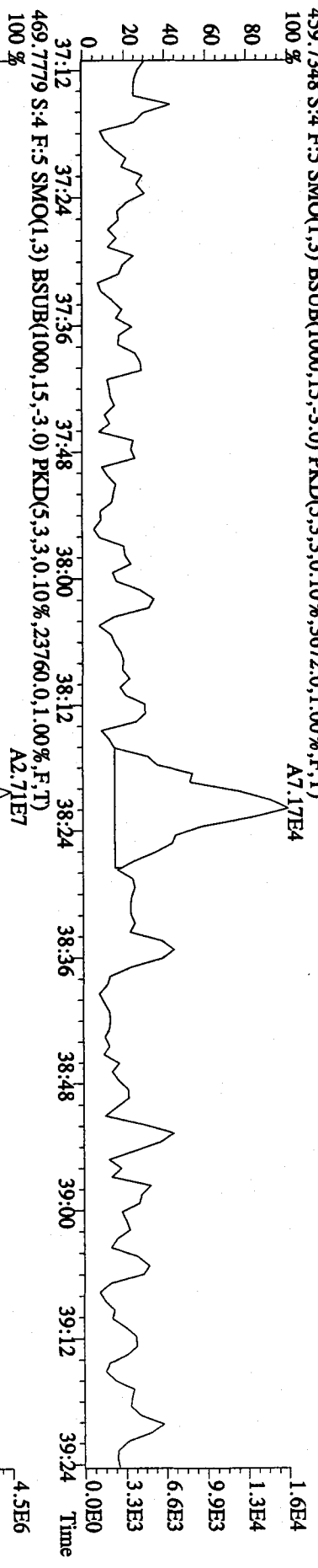
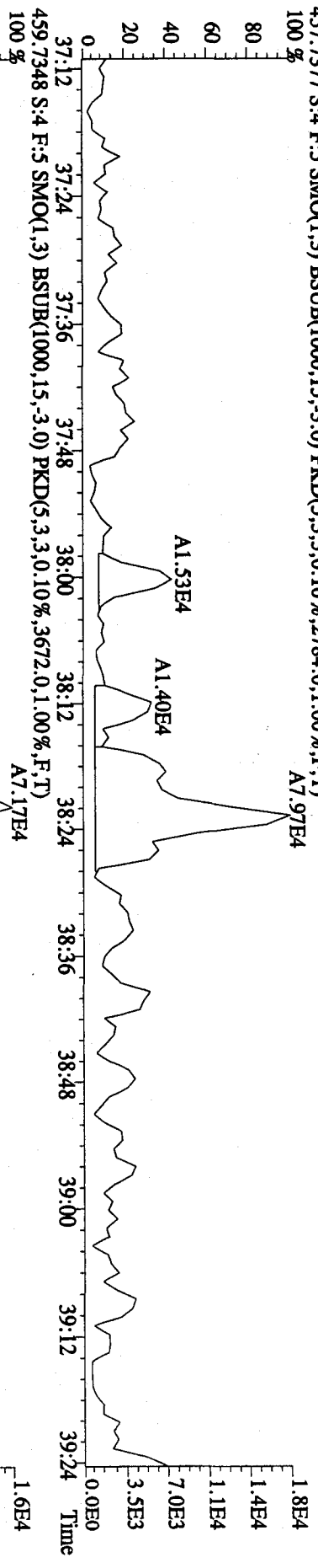




File:041A10A1D5 #1-161 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRNEV-1-AA :G9L280000-386B Exp:DIOXIN
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3876.0,1.00%,F,T)

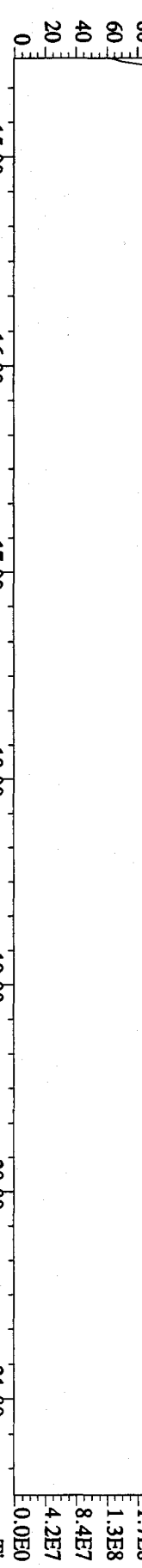


File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LRNEV-1-AA :G9L280000-386B Exp:DIOXIN
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2784,0,1,00%,F,T)
 100 %

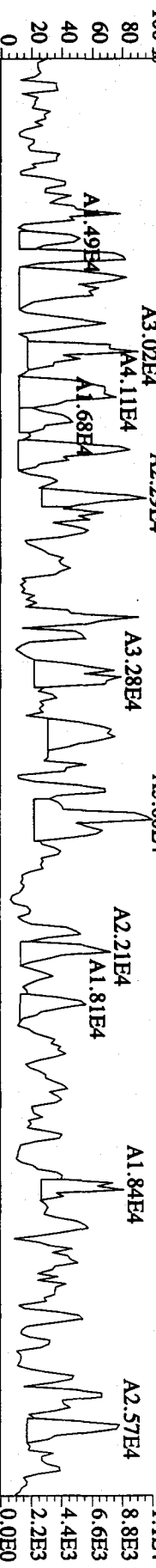


Sample#4 Text:LRNEV-1-AA :G9L280000-386B Exp:DIOXIN

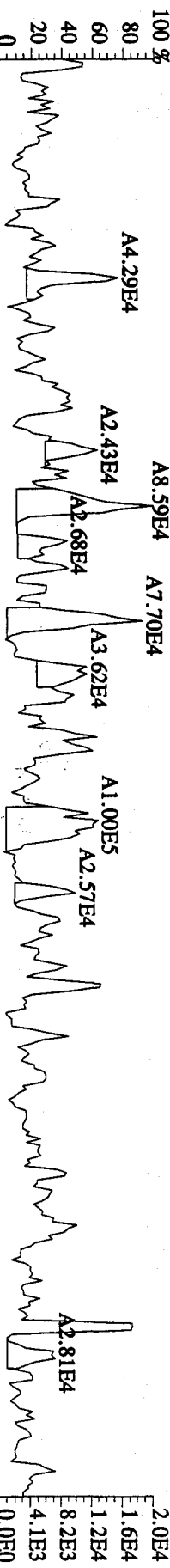
292.9825 S:4 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T) 100% 14:50 15:24 16:01 16:45 17:14 17:44 18:15 18:44 19:22 20:07 20:37 21:18 2.1E8



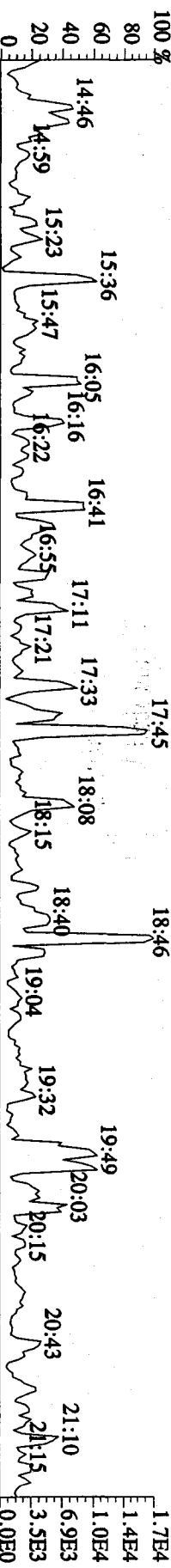
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4060,0,1.00%,F,T) 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00 1.1E4



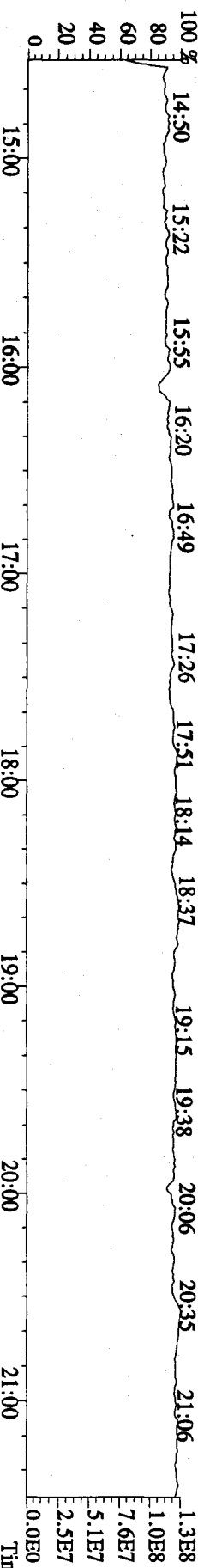
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6236,0,1.00%,F,T) 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00 2.0E4

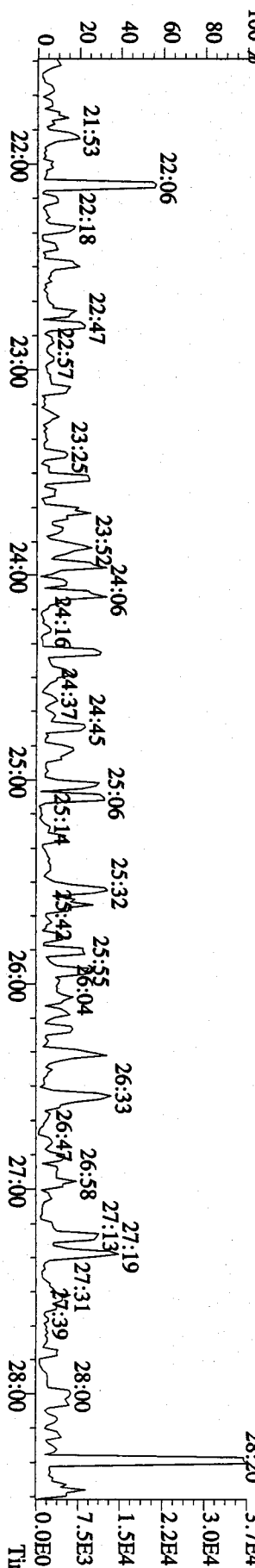
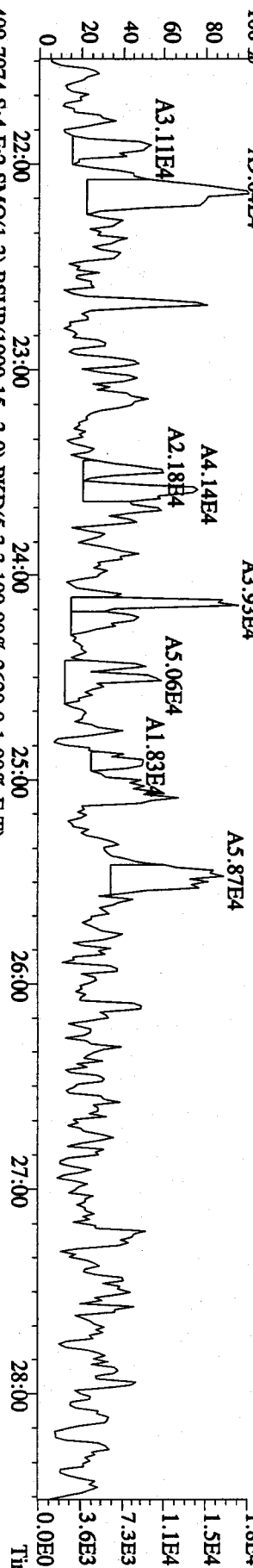
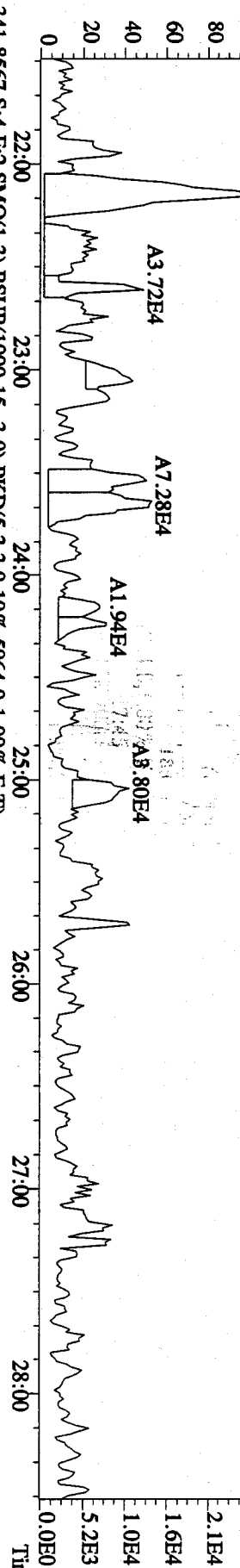
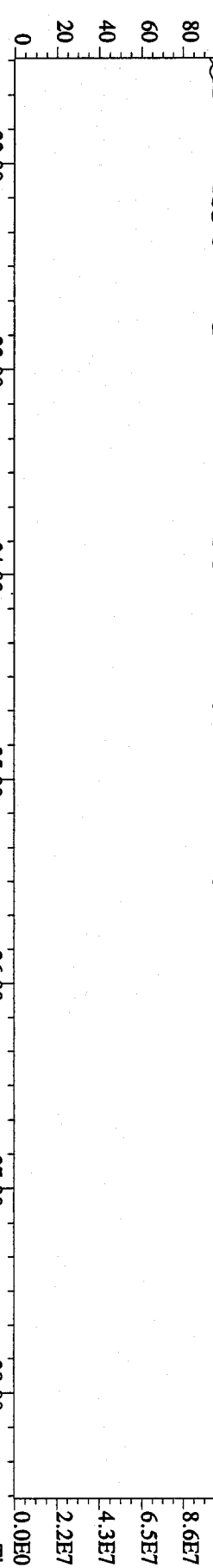


375.8364 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2704,0,1.00%,F,T) 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00 1.7E4



330.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T) 100% 14:50 15:22 15:55 16:20 16:49 17:00 17:26 17:51 18:14 18:37 19:00 19:15 19:38 20:06 20:35 21:06 1.3E8



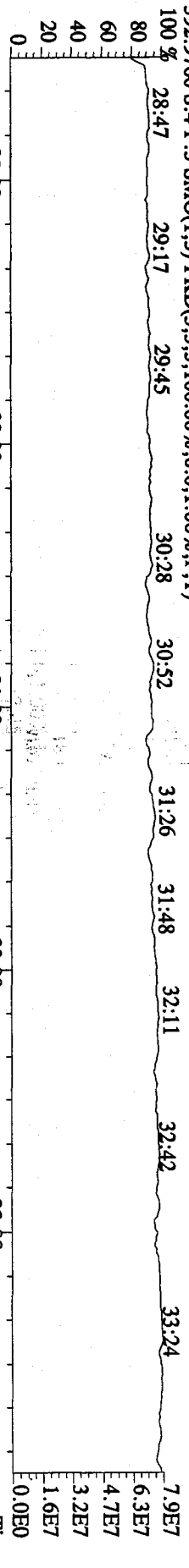


File:041A10A1D5 #1-362 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE

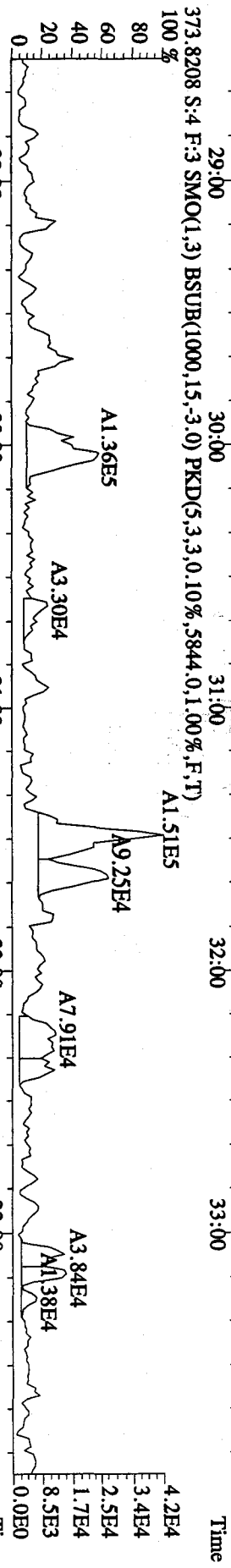
Sample#4 Text:LRNEY-1-AA :G9L280000-386B Exp:DIOXIN

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

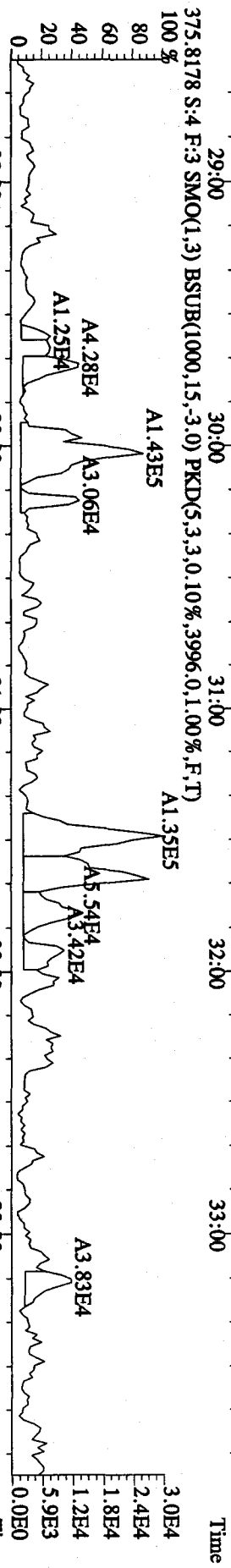
100% 28:47 29:17 29:45 30:28 30:52 31:26 31:48 32:11 32:42 33:24



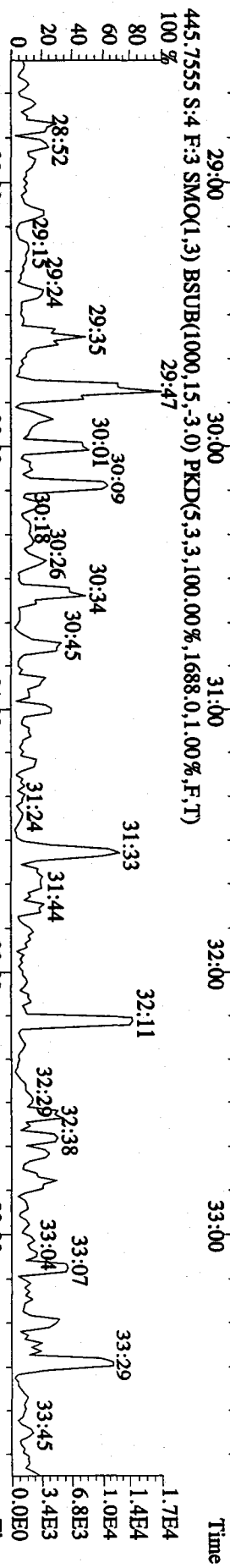
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5844.0,1.00%,F,T)



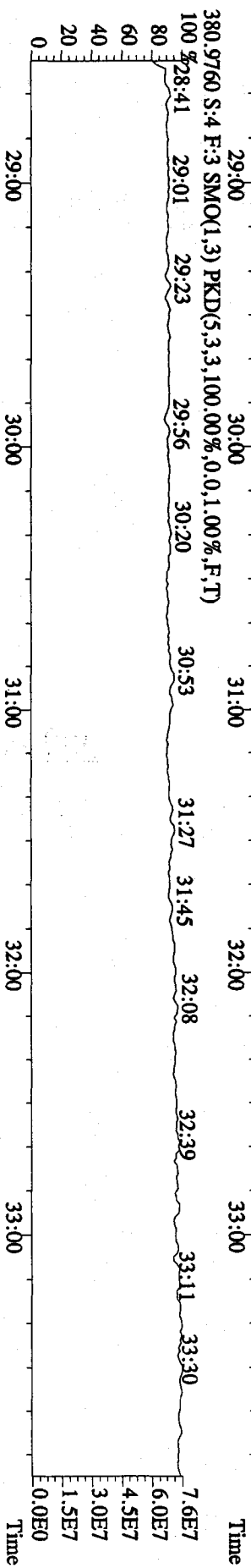
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3996.0,1.00%,F,T)

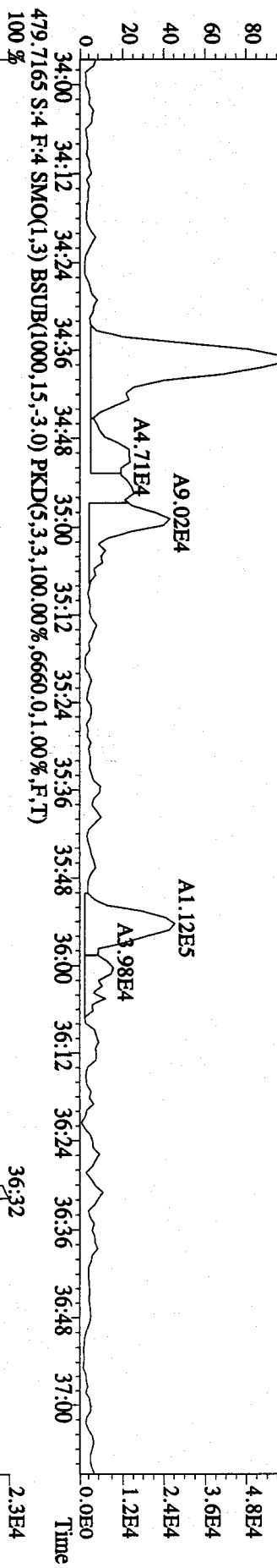
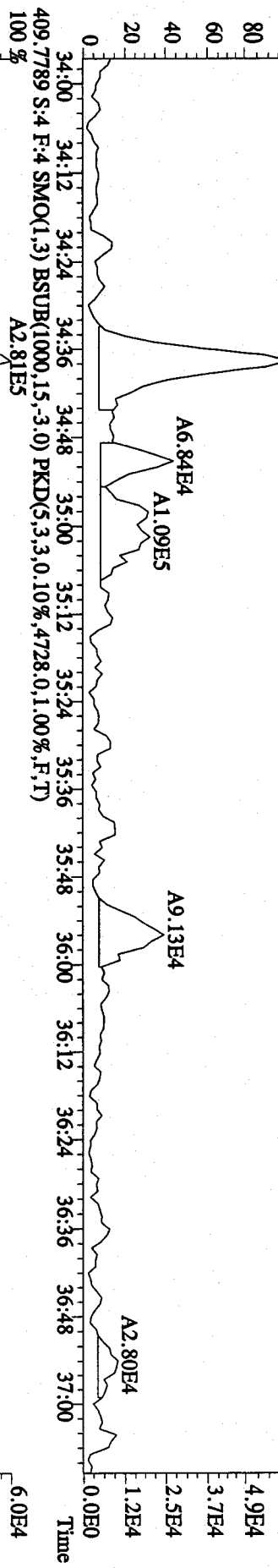
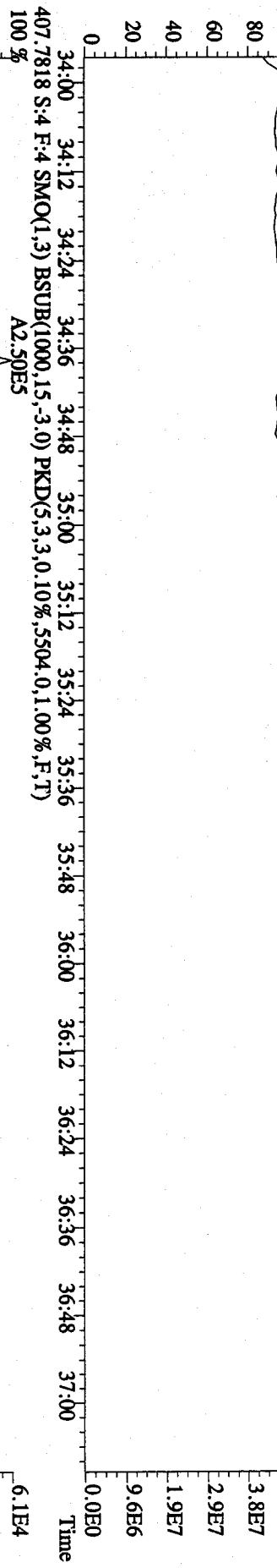


445.7555 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1688.0,1.00%,F,T)



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

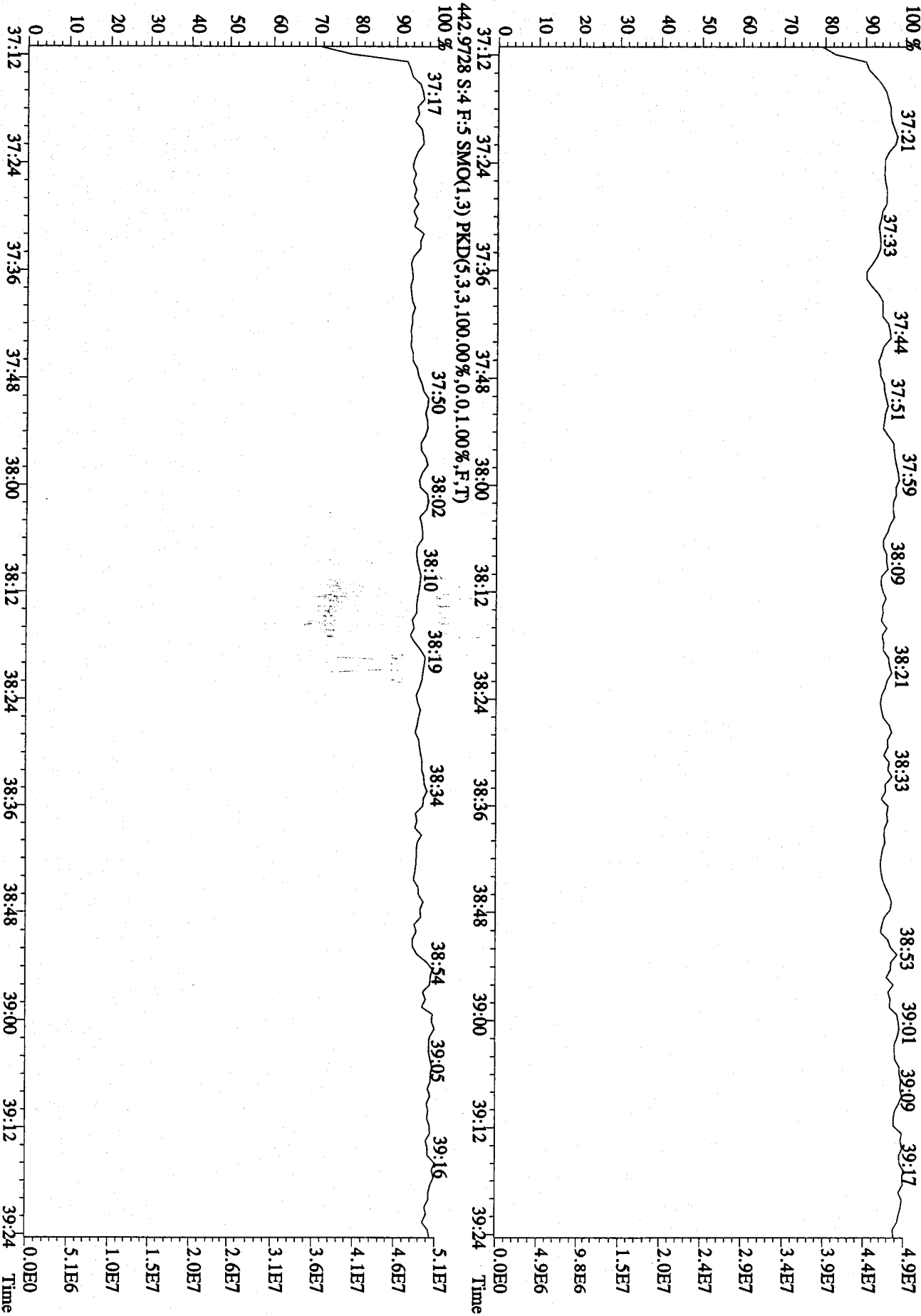




File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 16:28:12 GC EI+ Voltage SIR 70SE

Sample#4 Text:LRNEV-1-AA :G9L280000-386B Exp:DIOXIN

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

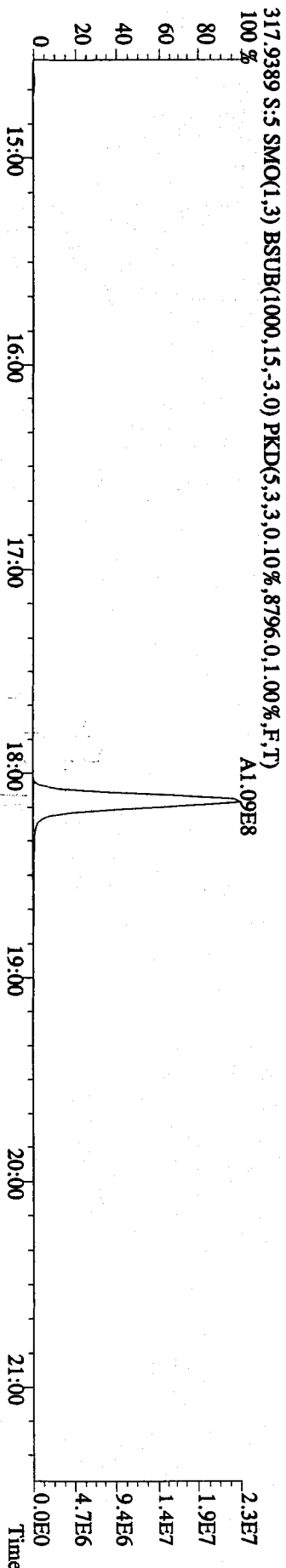
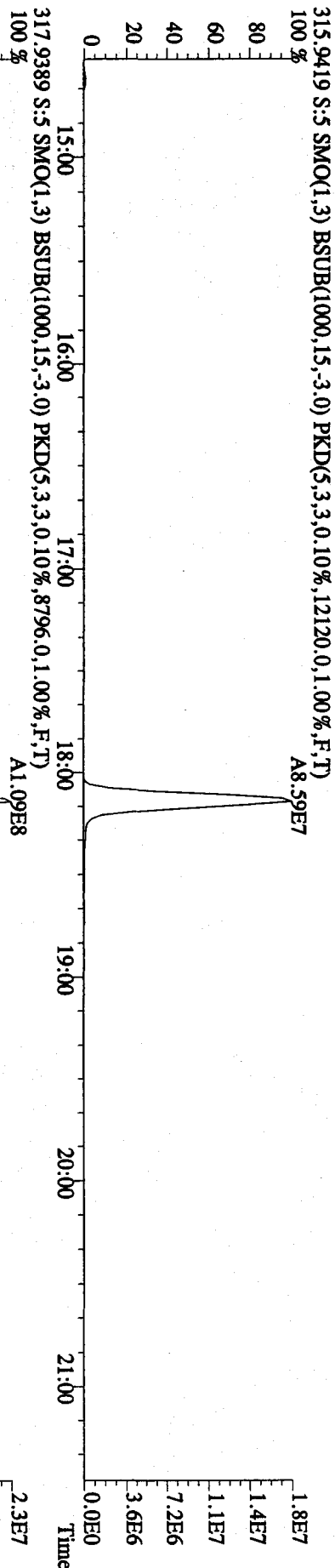
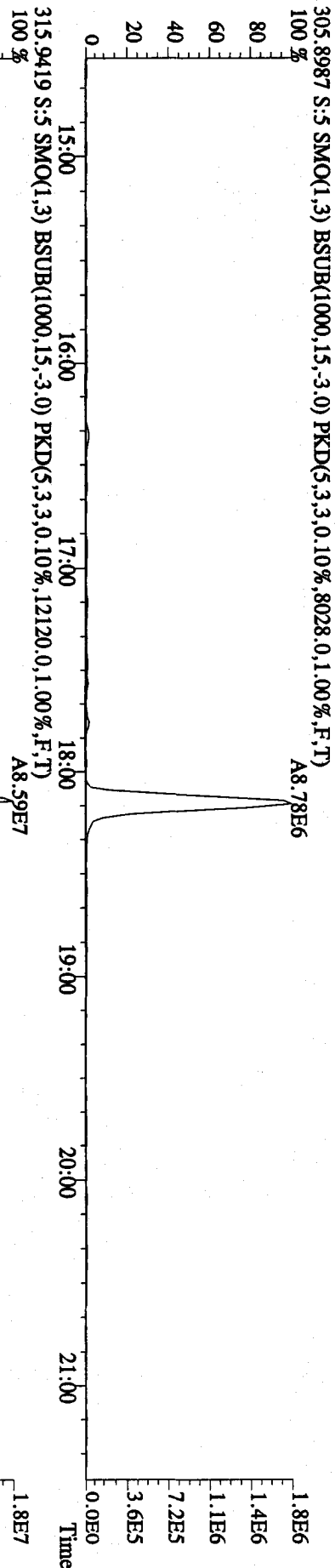
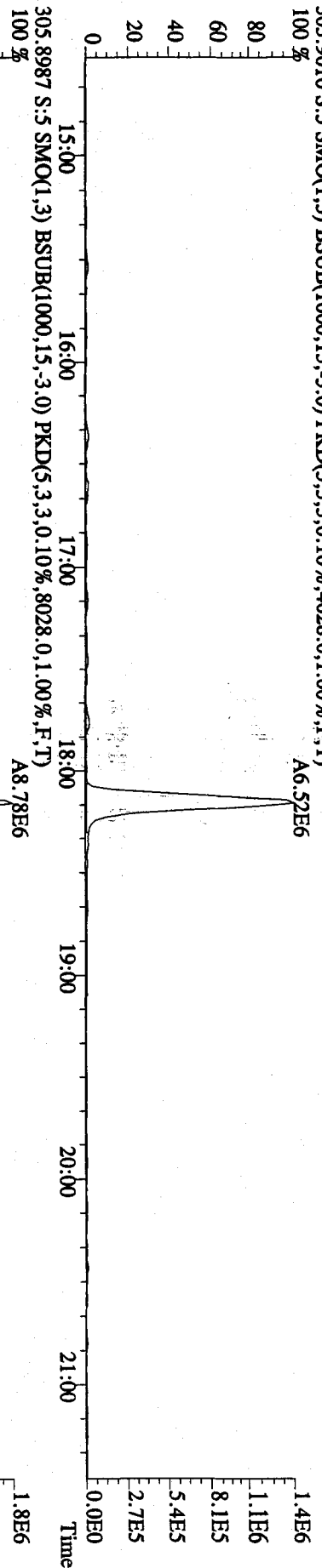


Run text: LRNEV-1-AC Sample text: LRNEV-1-AC :G9L280000-386C
 Run #9 Filename: 04JA10A1D5 S: 5 I: 1 Results: 04JA10A1D58290
 Acquired: 4-JAN-10 17:10:00 Processed: 4-JAN-10 17:54:46
 Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.0000µg

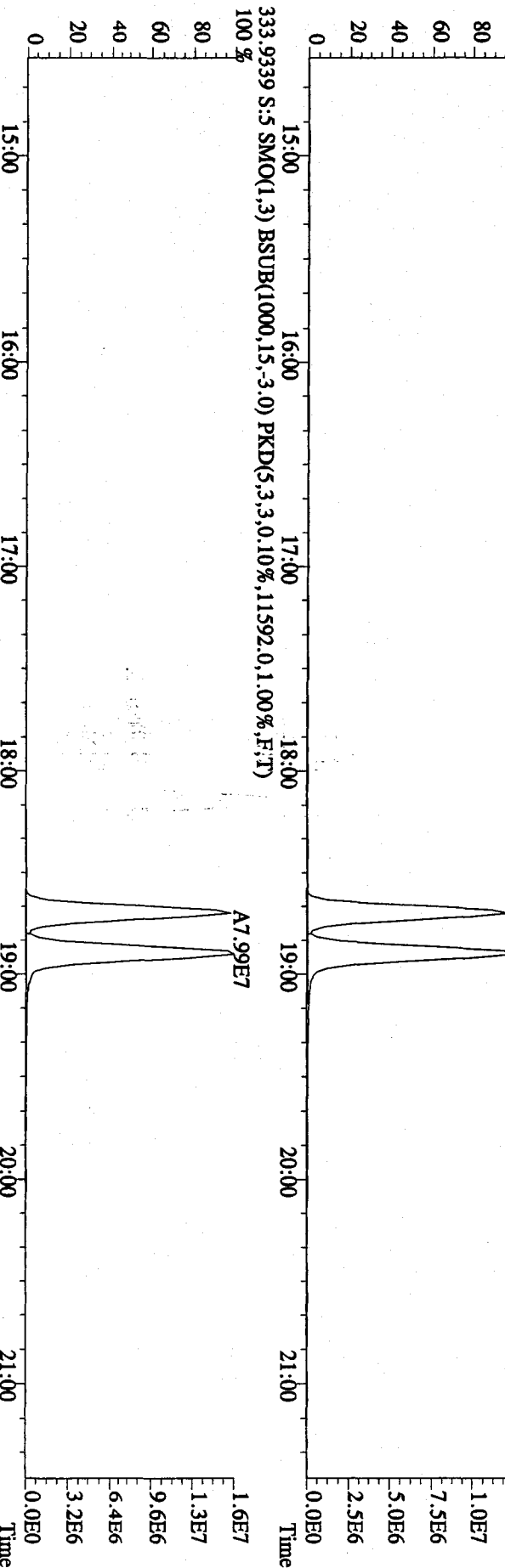
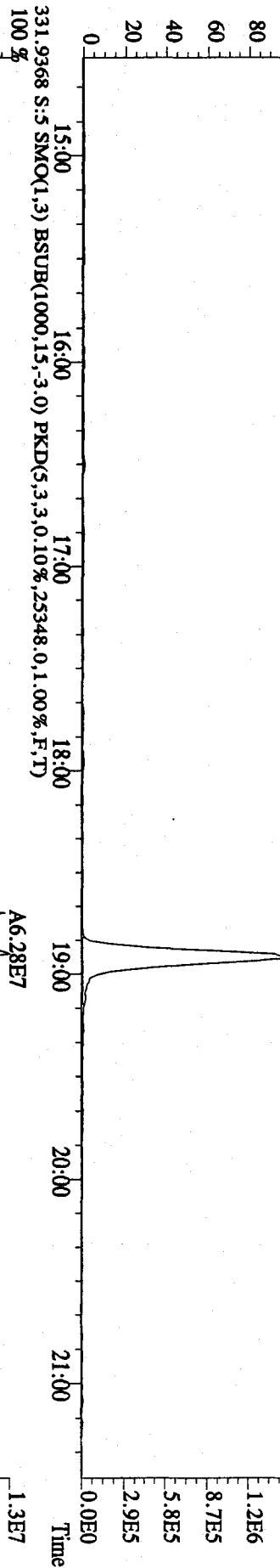
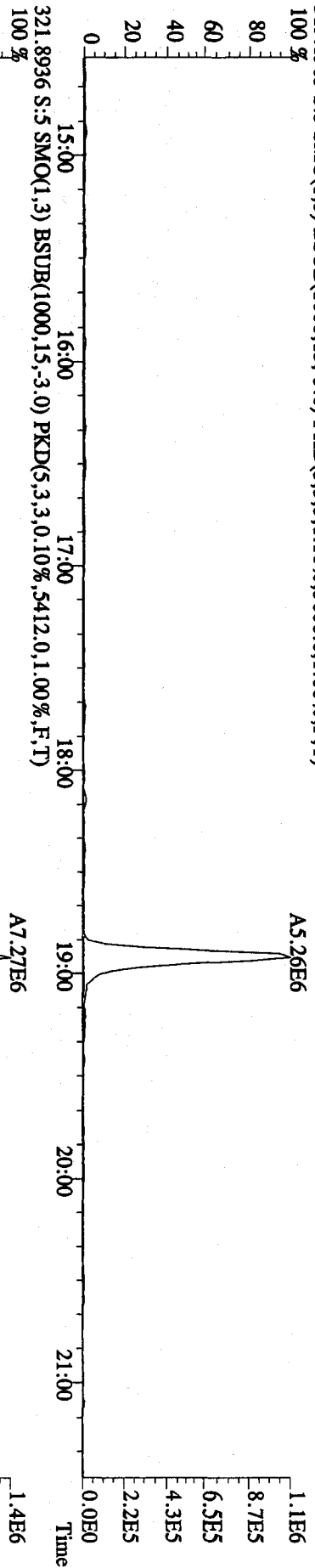
Handwritten signature and date:
 1/5/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	129022300	0.78 y	18:42	-	4.14	-	-	n
13C-2,3,7,8-TCDF	195241800	0.79 y	18:09	1.57	96.63	0.14	48.3	n
2,3,7,8-TCDF	15293510	0.74 y	18:10	0.86	18.22	0.20	-	n
Total TCDF	16231517	0.71 y	16:23	0.86	19.34	0.20	-	n
13C-2,3,7,8-TCDD	142632900	0.79 y	18:54	0.99	111.29	0.40	55.6	n
2,3,7,8-TCDD	12530750	0.72 y	18:55	0.93	18.82	0.20	-	n
Total TCDD	12787964	1.46 n	16:30	0.93	19.20	0.20	-	n
37Cl-2,3,7,8-TCDD	155500400	1.00 y	18:55	2.22	54.34	0.06	67.9	n
13C-1,2,3,7,8-PeCDF	141273900	1.60 y	23:33	1.07	102.06	0.19	51.0	n
1,2,3,7,8-PeCDF	68516700	1.59 y	23:35	1.00	96.99	0.37	-	n
2,3,4,7,8-PeCDF	64866900	1.58 y	25:01	0.94	97.84	0.39	-	n
Total F2 PeCDF	135051181	1.02 n	22:07	0.97	197.27	0.38	-	n
Total F1 PeCDF	58078	1.35 y	20:28	0.97	0.08	0.29	-	n
13C-1,2,3,7,8-PeCDD	94330100	1.62 y	25:45	0.67	109.72	0.16	54.9	n
1,2,3,7,8-PeCDD	43244700	1.59 y	25:47	0.93	98.68	0.40	-	n
Total PeCDD	43653953	3.13 n	23:34	0.93	99.61	0.40	-	n
13C-1,2,3,7,8,9-HxCDD	104753000	1.29 y	32:51	-	3.82	-	-	n
13C-1,2,3,4,7,8-HxCDF	100488400	0.52 y	31:27	0.89	107.45	0.14	53.7	n
1,2,3,4,7,8-HxCDF	60759200	1.25 y	31:28	1.20	100.85	0.18	-	n
1,2,3,6,7,8-HxCDF	72352300	1.25 y	31:37	1.37	105.02	0.16	-	n
2,3,4,6,7,8-HxCDF	63942900	1.25 y	32:17	1.24	102.46	0.18	-	n
1,2,3,7,8,9-HxCDF	59971600	1.24 y	33:04	1.33	90.01	0.17	-	n
Total HxCDF	257724421	0.35 n	29:30	1.28	399.42	0.17	-	n
13C-1,2,3,6,7,8-HxCDD	102159400	1.26 y	32:33	0.73	133.21	0.17	66.6	n
1,2,3,4,7,8-HxCDD	43400100	1.25 y	32:28	0.97	87.60	0.24	-	n
1,2,3,6,7,8-HxCDD	52134700	1.27 y	32:33	1.06	96.44	0.22	-	n
1,2,3,7,8,9-HxCDD	54114700	1.27 y	32:52	1.28	83.07	0.18	-	n
Total HxCDD	150267160	1.25 y	32:28	1.10	268.21	0.21	-	n
13C-1,2,3,4,6,7,8-HpCDF	96970100	0.41 y	34:36	0.86	107.62	1.32	53.8	n
1,2,3,4,6,7,8-HpCDF	63776900	1.05 y	34:37	1.29	102.24	0.67	-	n
1,2,3,4,7,8,9-HpCDF	52040400	1.06 y	35:54	1.14	94.54	0.76	-	n
Total HpCDF	115817300	1.05 y	34:37	1.21	196.77	0.72	-	n
13C-1,2,3,4,6,7,8-HpCDD	92676400	1.05 y	35:32	0.75	117.62	0.61	58.8	n
1,2,3,4,6,7,8-HpCDD	44216100	1.06 y	35:33	1.00	95.63	0.58	-	n
Total HpCDD	44372673	0.92 y	34:54	1.00	95.97	0.58	-	n
13C-OCDD	146832400	0.91 y	38:20	0.56	248.34	0.75	62.1	n
OCDF	95019700	0.89 y	38:28	1.44	180.09	0.80	-	n
OCDD	79278200	0.88 y	38:20	1.11	194.65	0.97	-	n

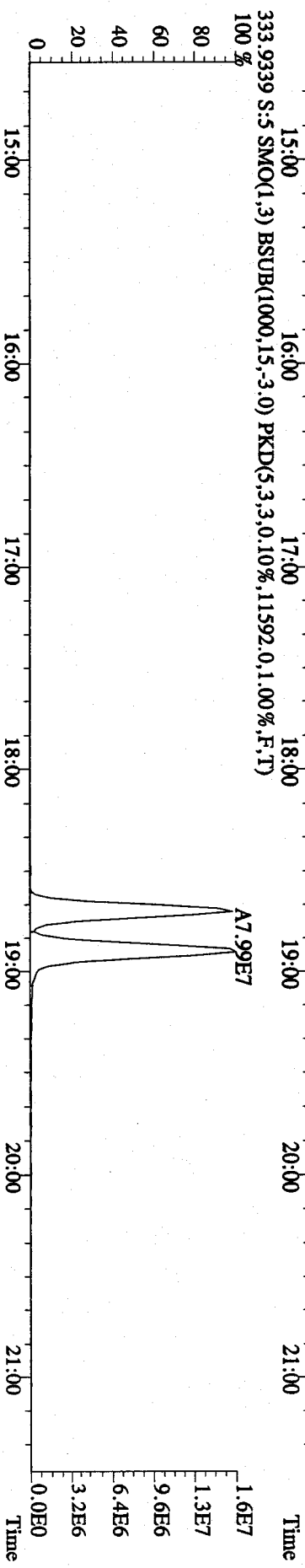
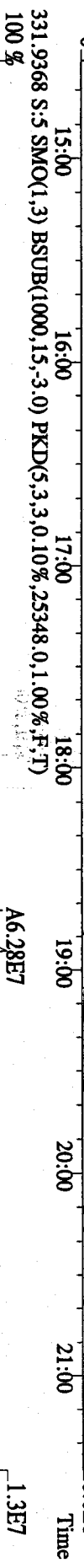
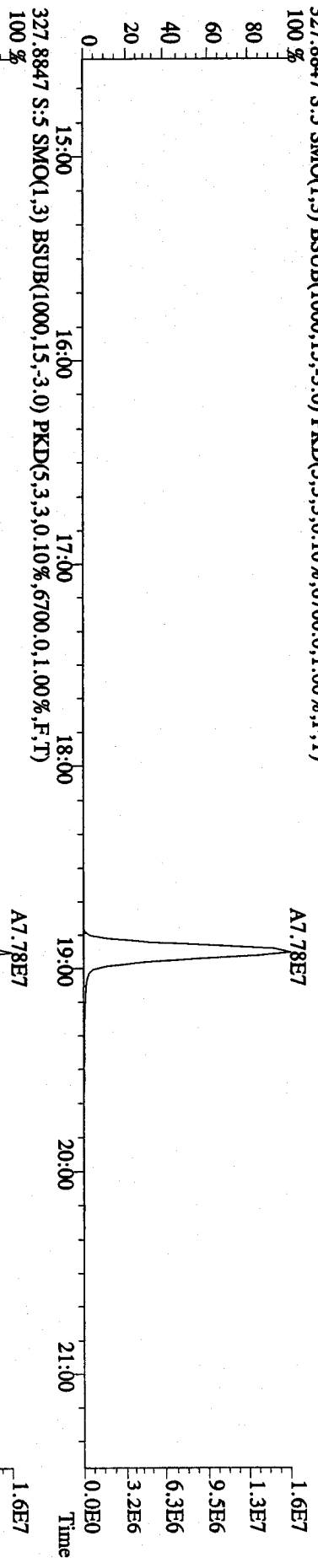
File:04JA10AID5 #1-411 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LRNEV-1-AC :G91280000-386C Exp:DIOXIN
 303.9016 S:S SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4028,0,1,00%,F,T)
 100 %



File:041A10A1D5 #1-411 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LRNEV-1-AC :G9L280000-386C Exp:DIOXIN
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.3608,0,1,00%,F,T)
 100 %



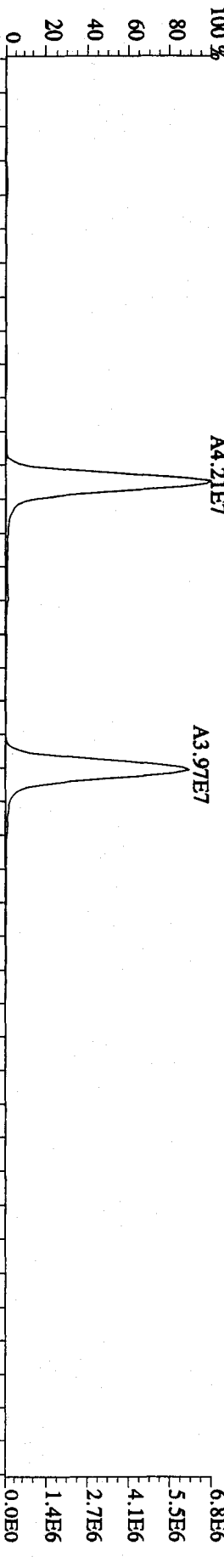
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LRNEY-1-AC :G9L280000-386C Exp:DIOXIN
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6700,0,1,00%,F,T)
 100 %



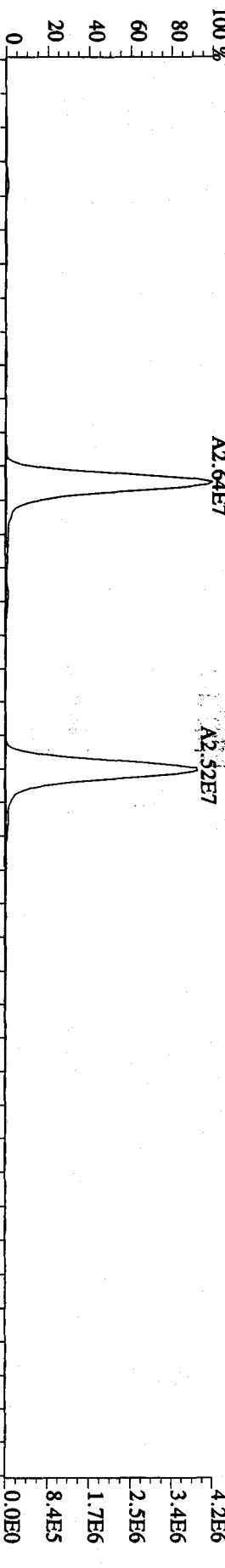
File:04JA10A1D5 #1-495 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE

Sample#5 Text:LRNEV-1-AC :G9L280000-386C Exp:DIOXIN

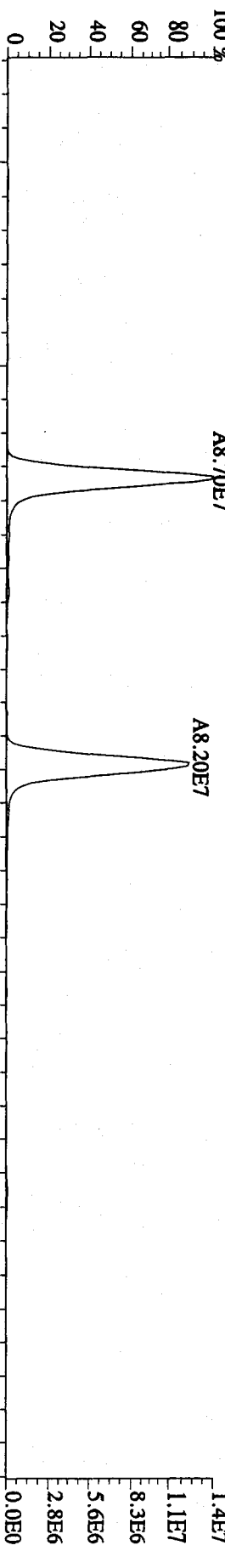
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5848.0,1.00%,F,T)



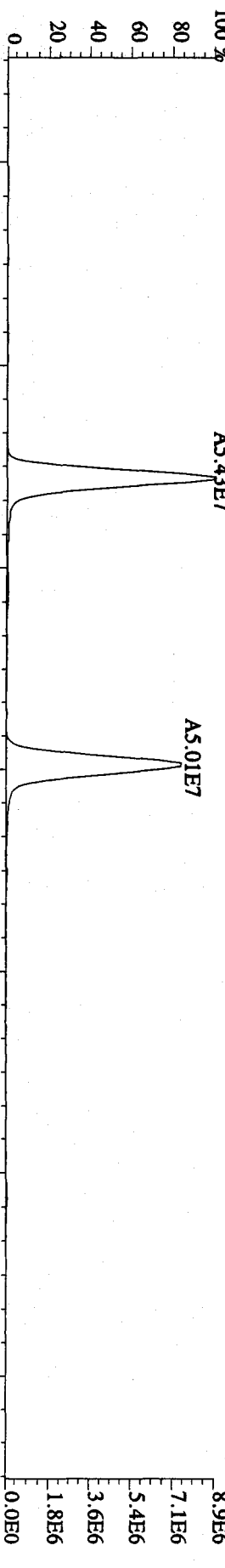
341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8088.0,1.00%,F,T)



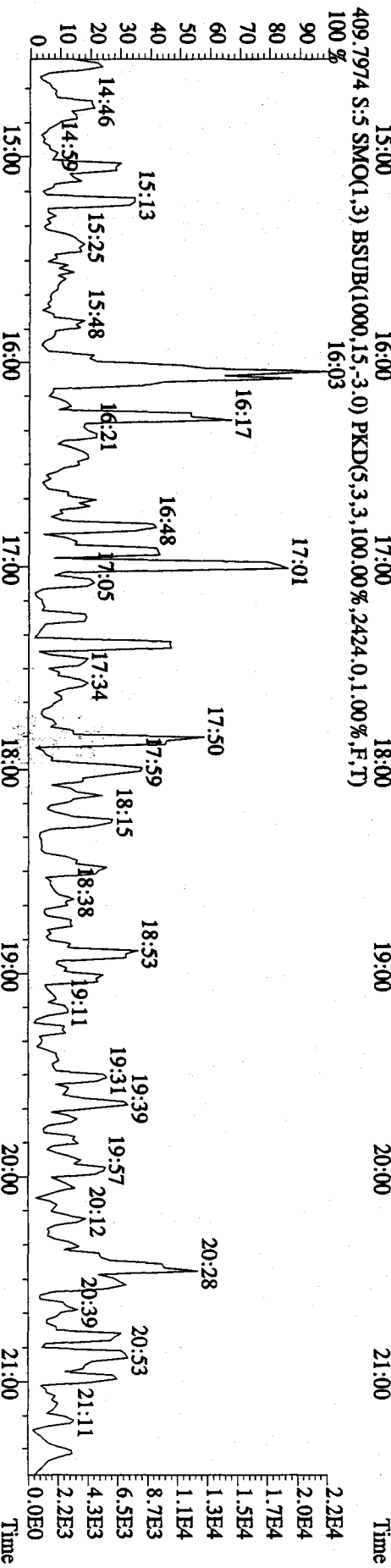
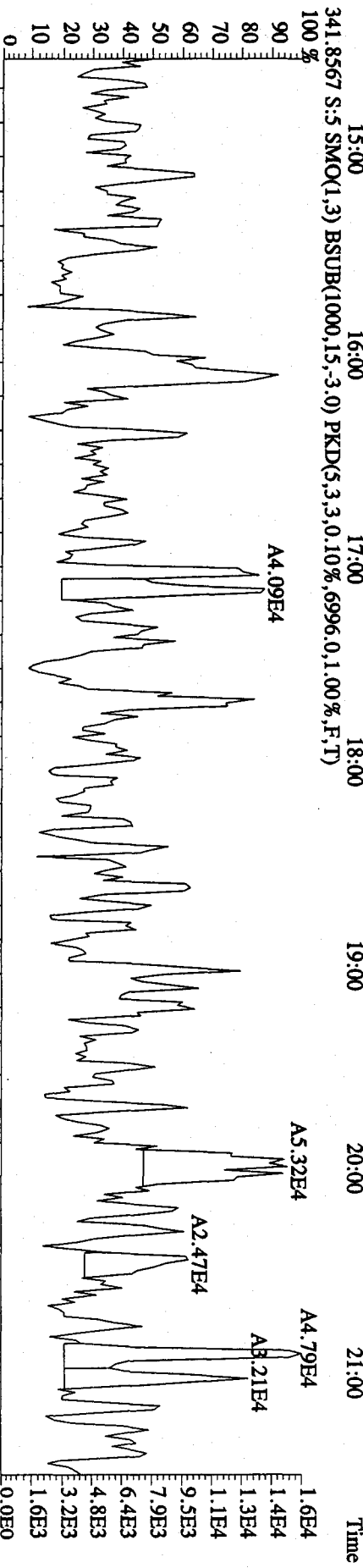
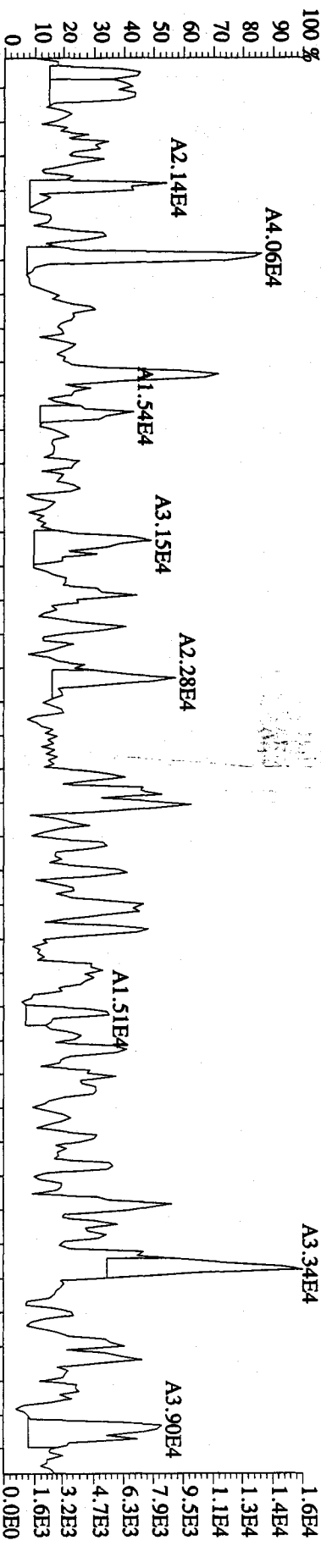
351.9000 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,10388.0,1.00%,F,T)



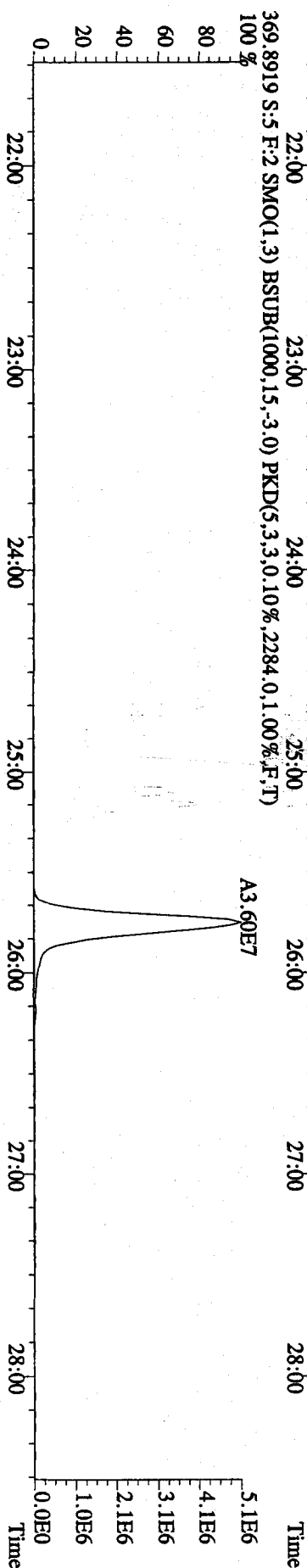
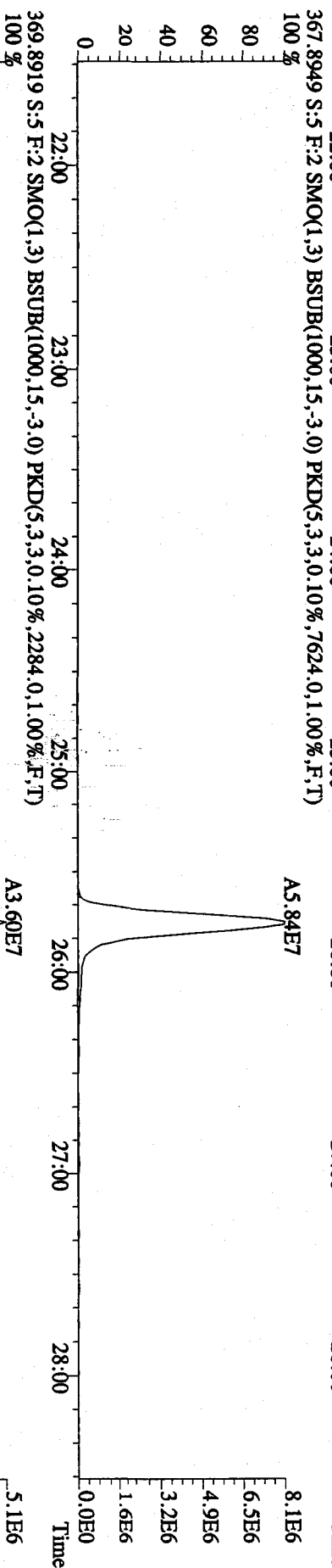
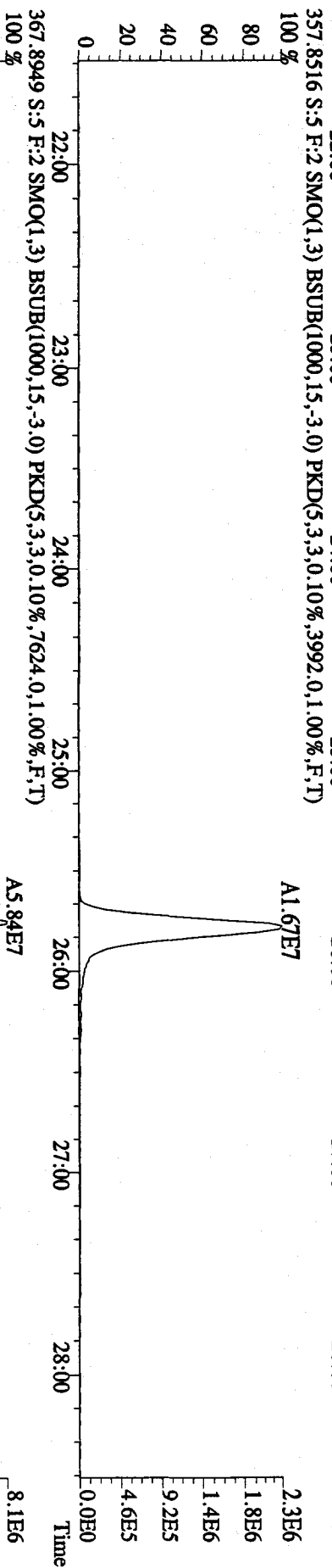
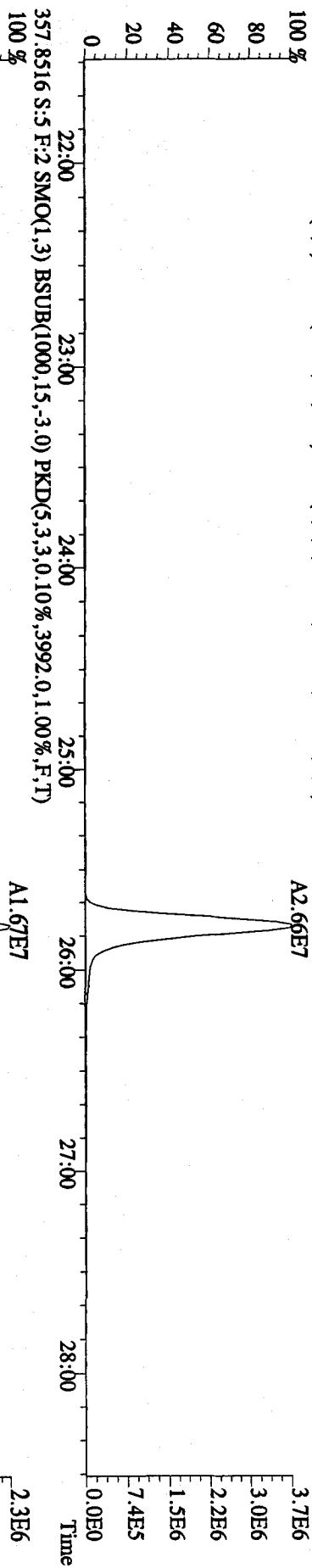
353.8970 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8376.0,1.00%,F,T)



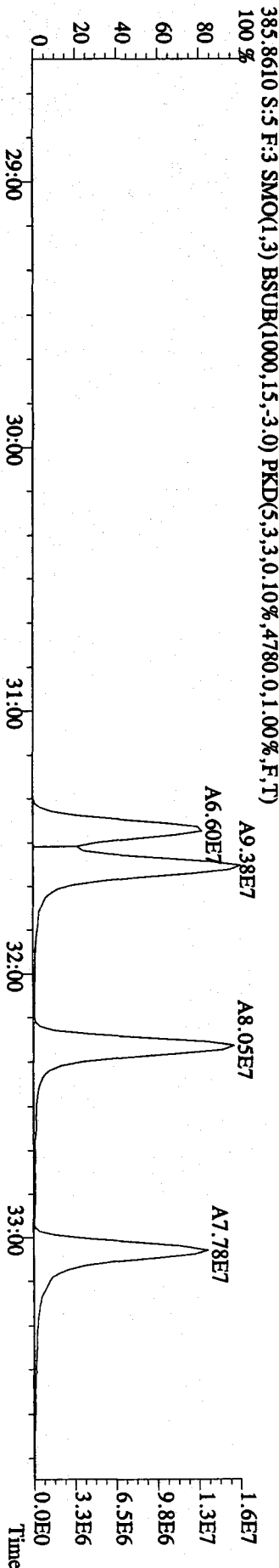
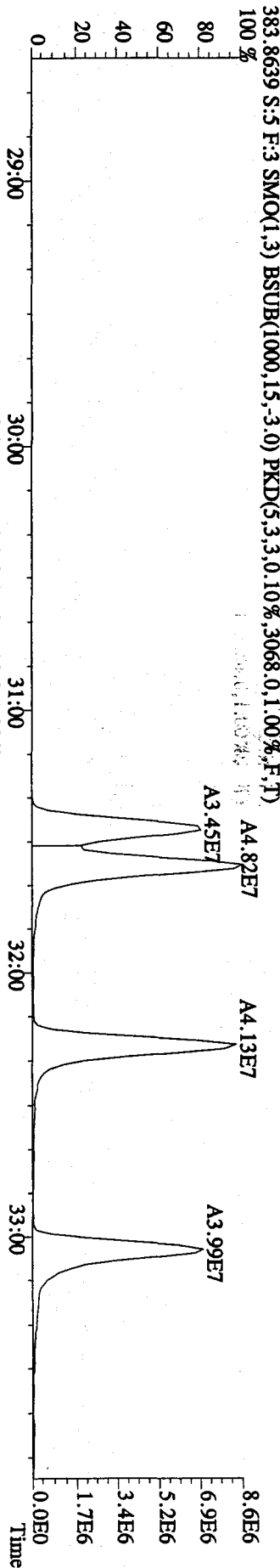
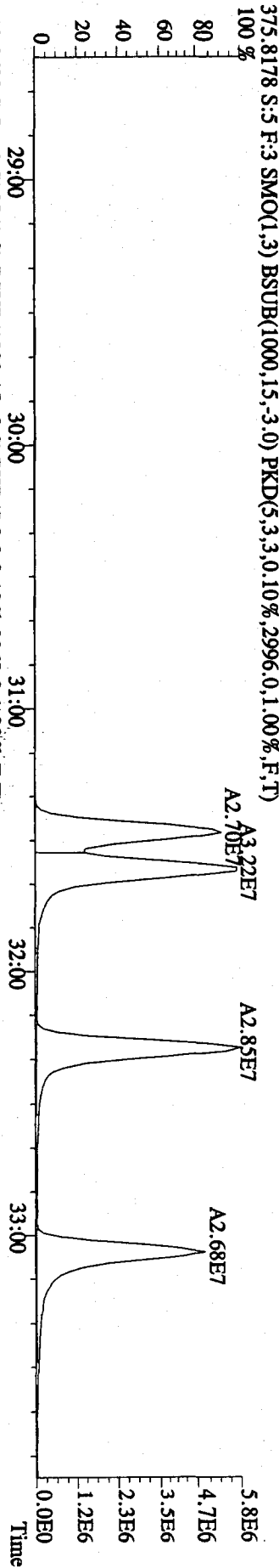
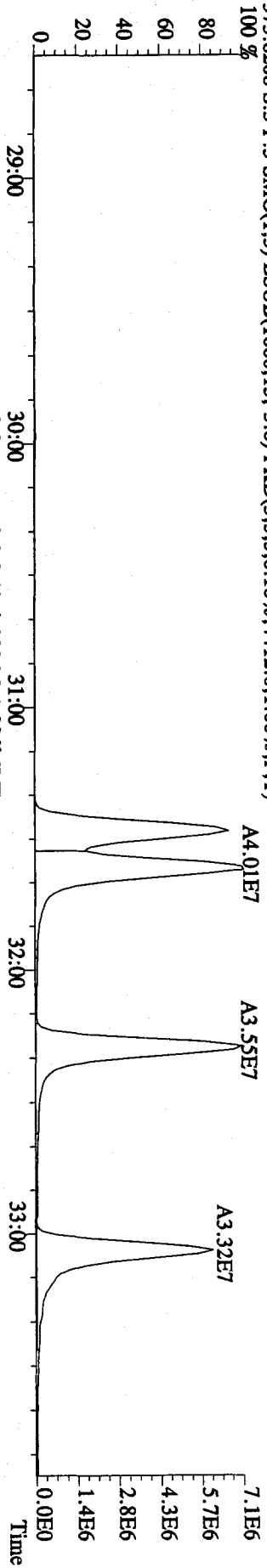
File:041A10A1D5 #1-411 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LRNEV-1-AC :G9L280000-386C Exp:DIOXIN
 339.8597 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3724,0.1,0.00%,F,T)



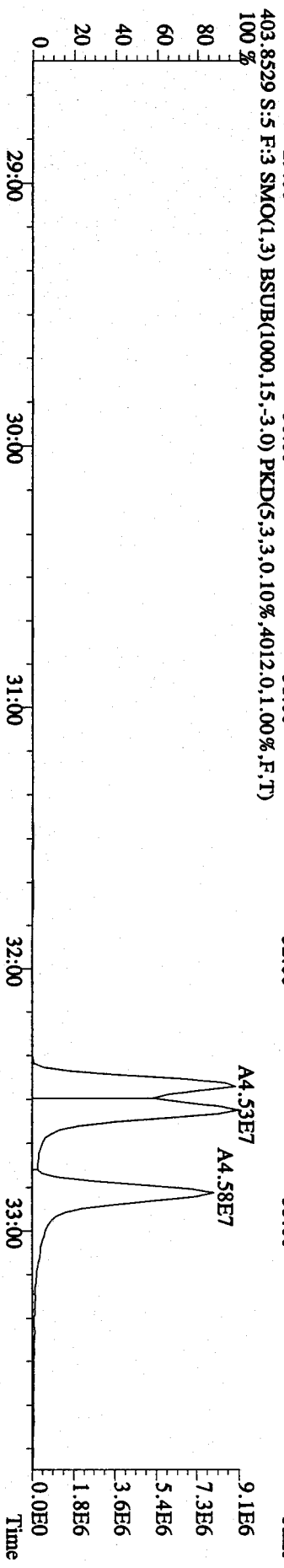
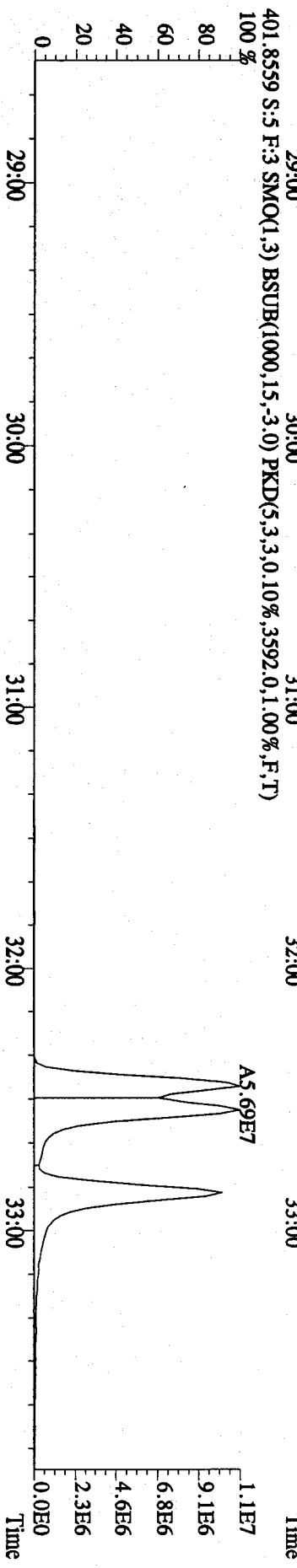
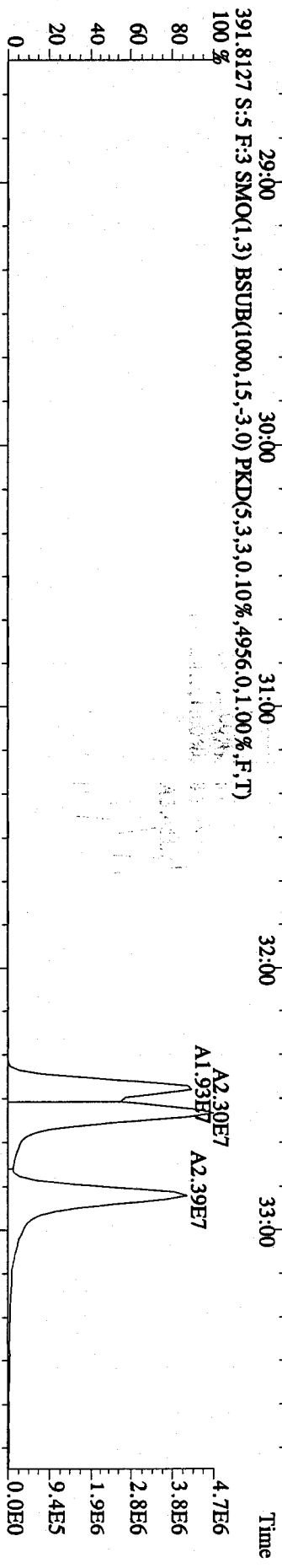
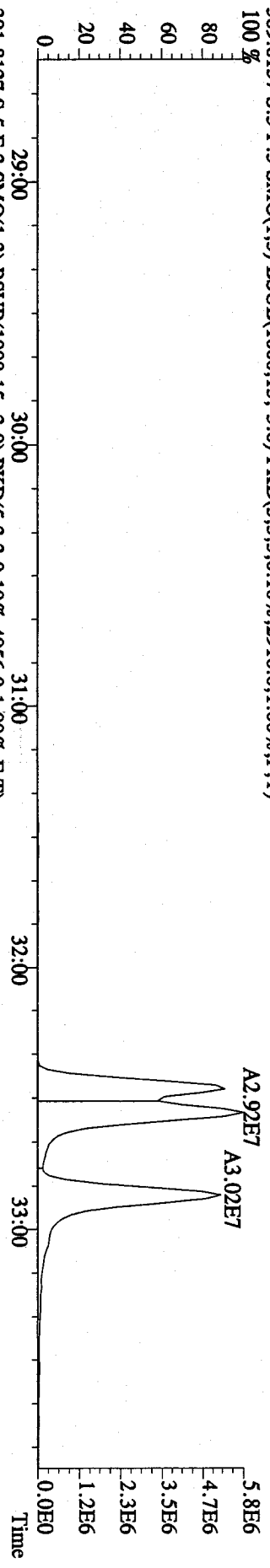
File:041A10A1D5 #1-495 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE
Sample#5 Text:LRNEV-1-AC :G9L280000-386C Exp:DIOXIN
355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4140.0,1.00%,F,T)



File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LRNEV-1-AC :G9L280000-386C Exp:DIOXIN
 373.8208 S:5 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4412,0,1,00%,F,T)

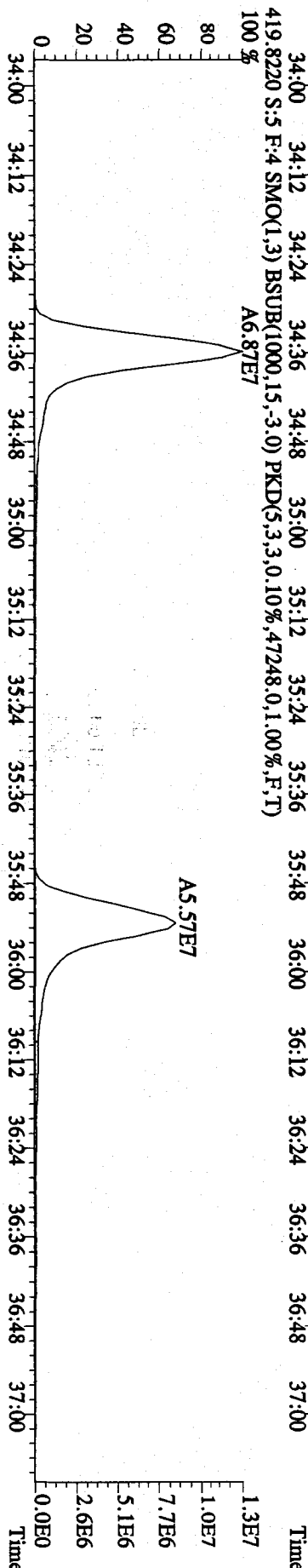
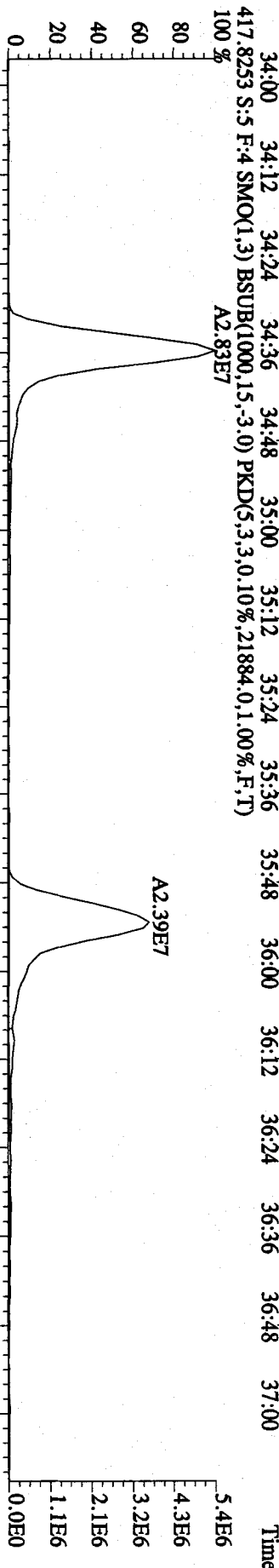
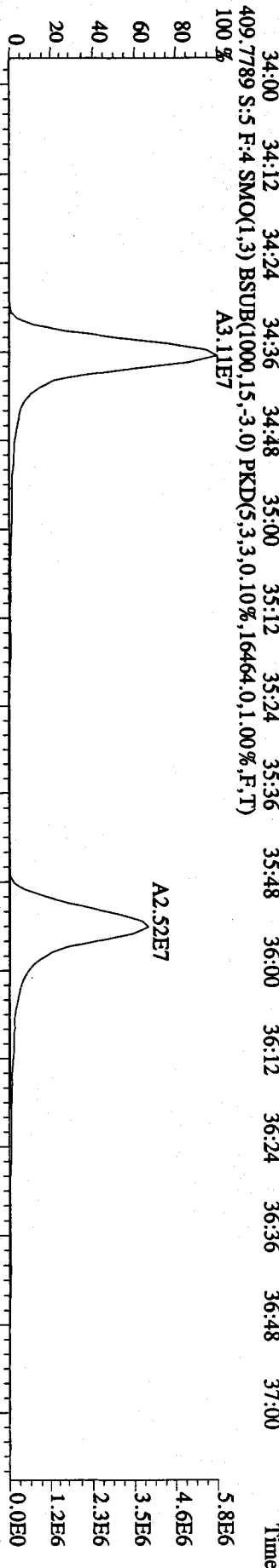
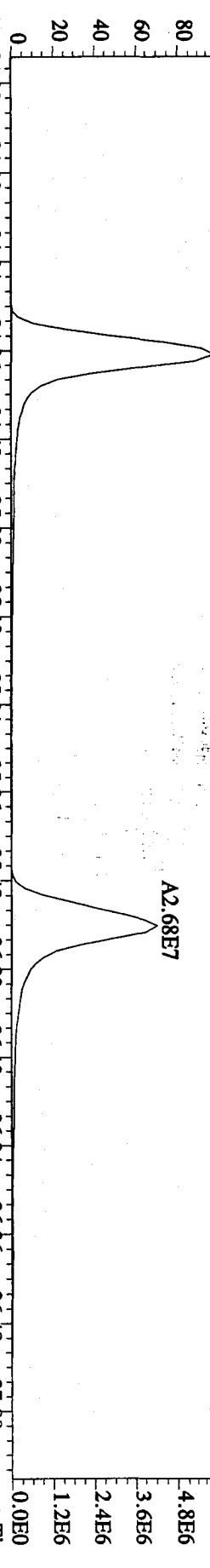


File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LRNEV-1-AC :G9L280000-386C Exp:DIOXIN
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2916,0,1,00%,F,T)
 100 %

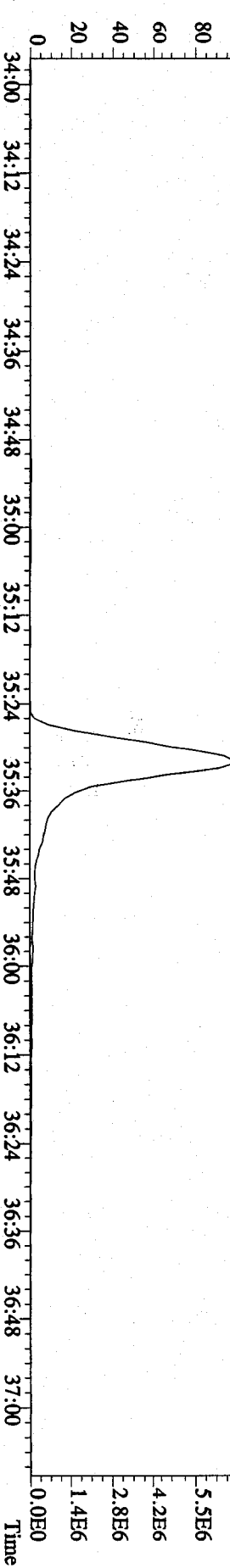
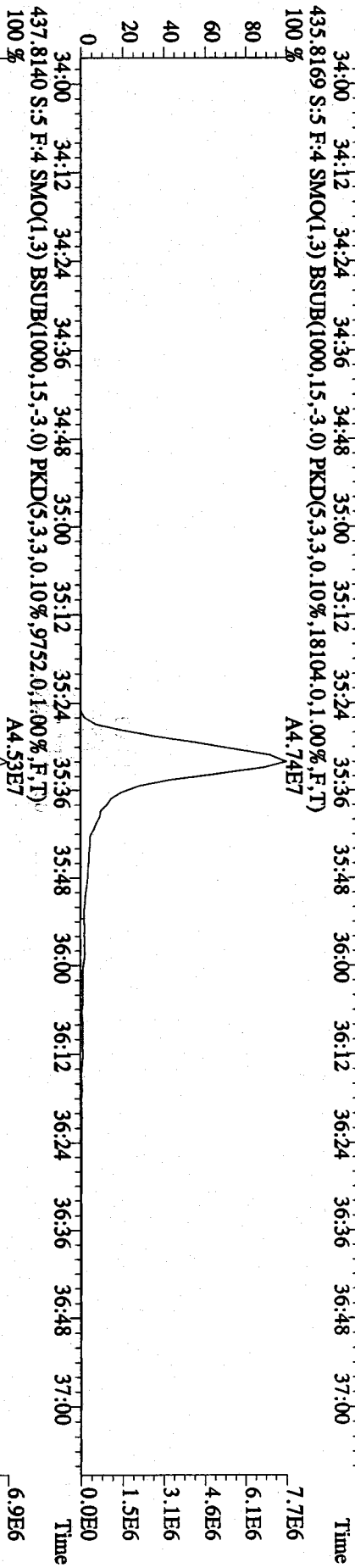
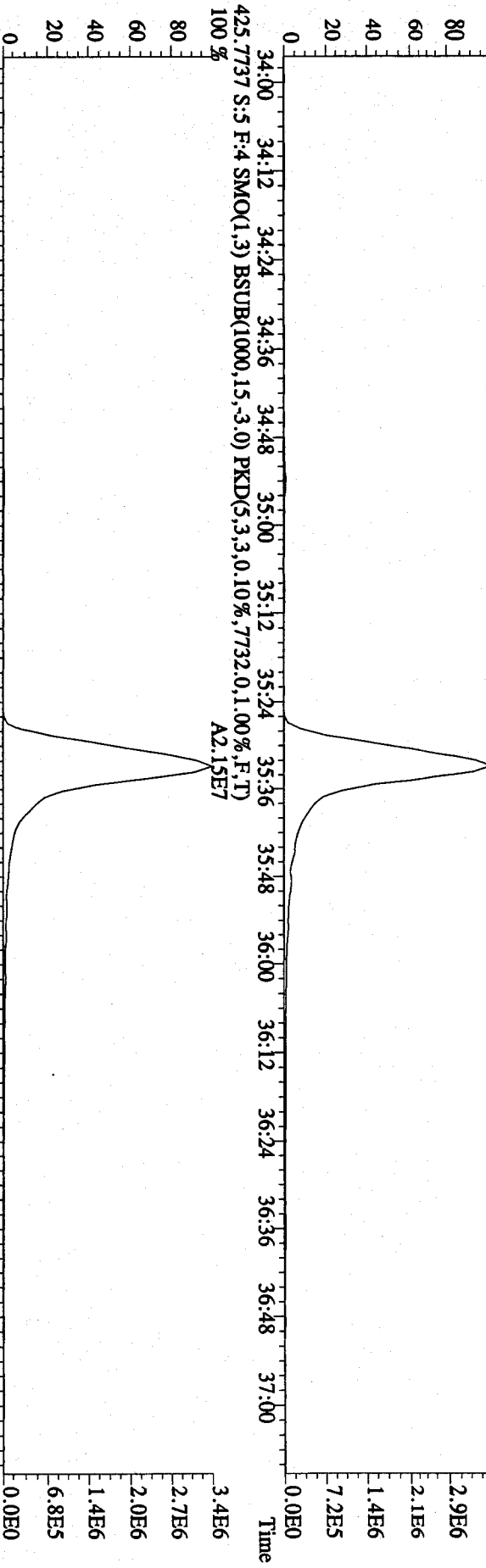


File:04JA10A1D5 #1-227 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE

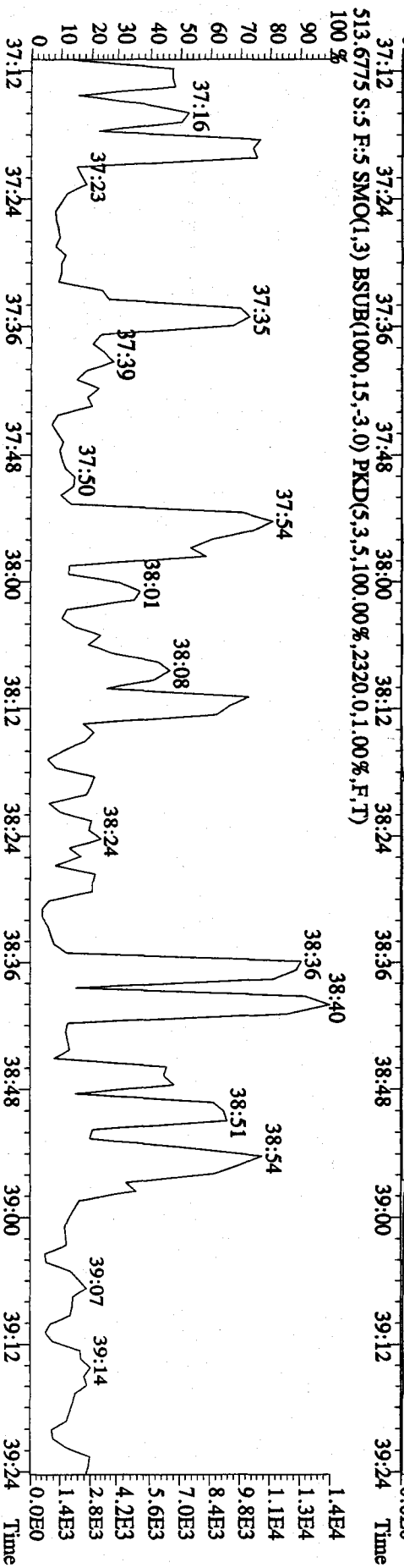
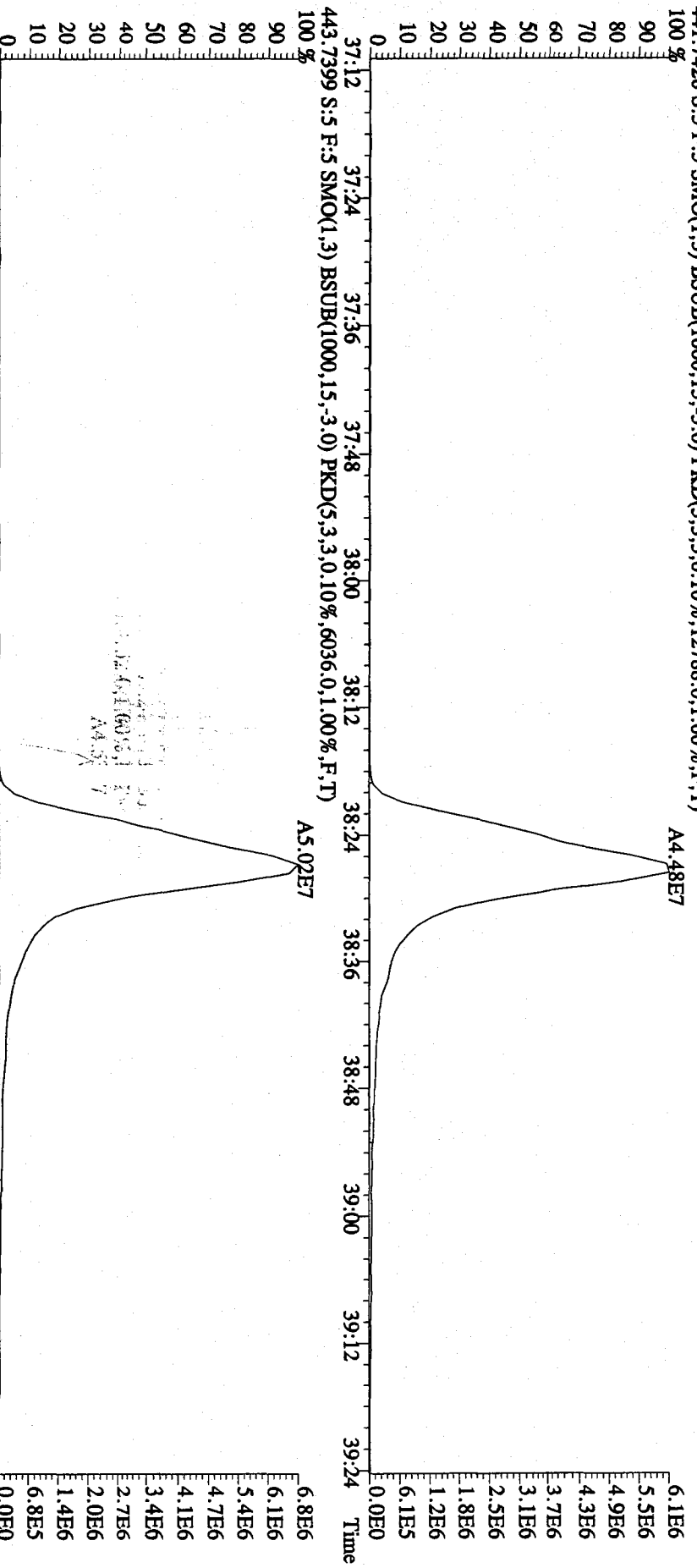
Sample#5 Text:LRNEV-1-AC :G9L280000-386C Exp:DIOXIN



File:04\A10AID5 #1-227 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LRNEV-1-AC :G91280000-386C Exp:DIOXIN
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6400,0.1,0.00%,F,T)
 100 % A2.27E7



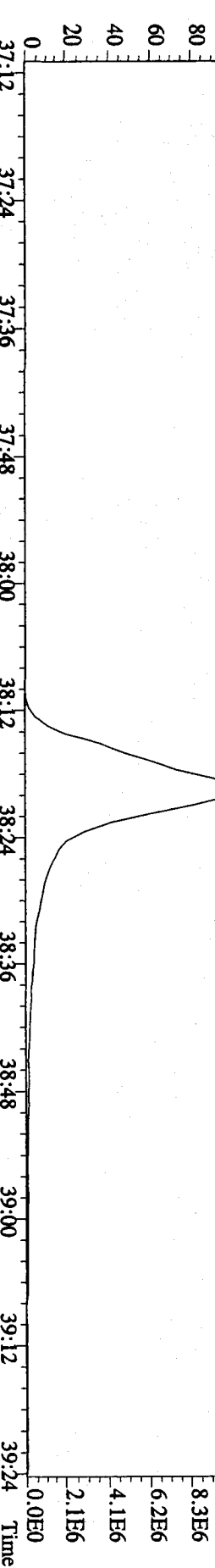
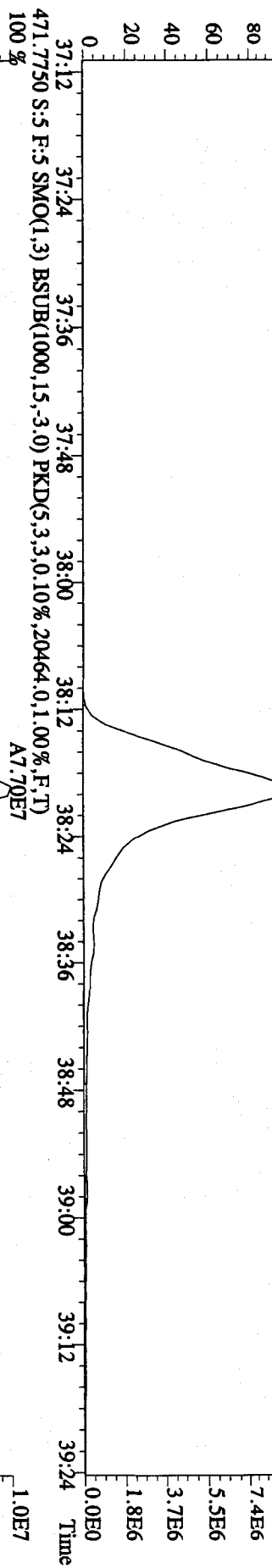
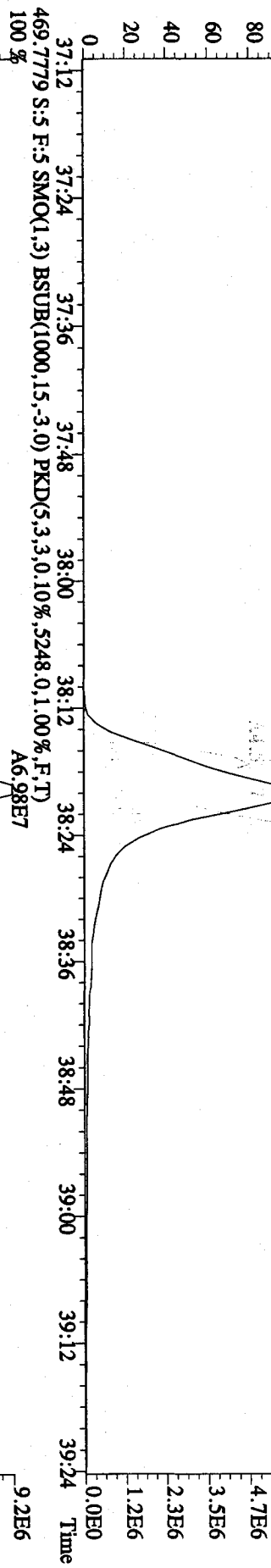
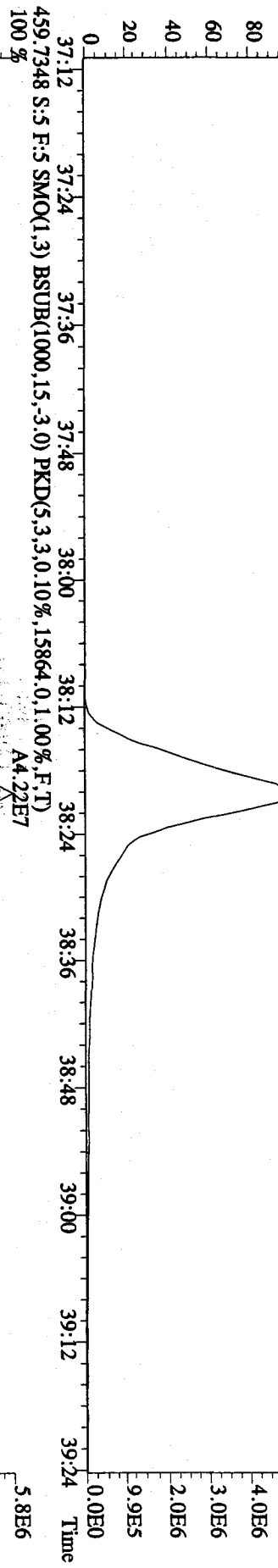
File:041A10A1D5 #1-161 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LRNEV-1-AC :G9L280000-386C Exp:DIOXIN
 441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12788,0,1,00%,F,T)

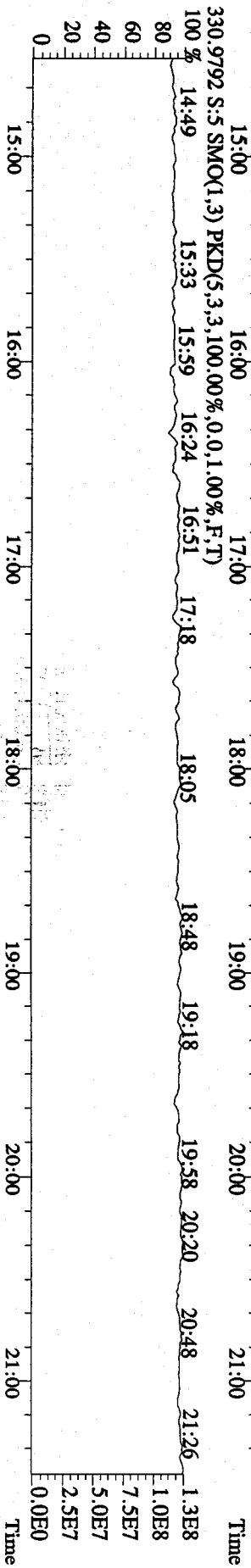
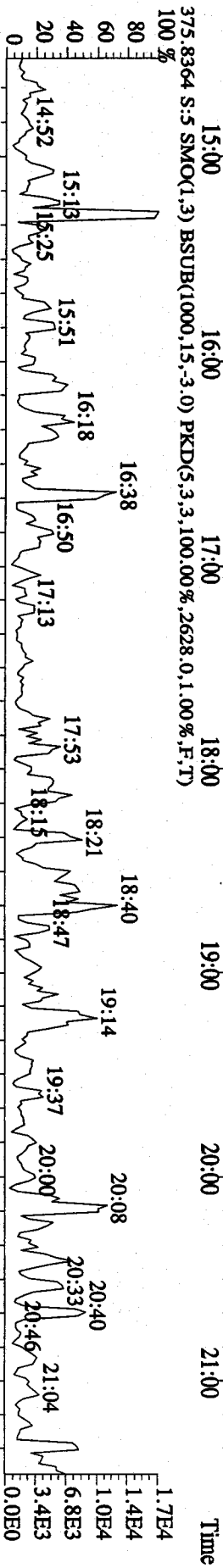
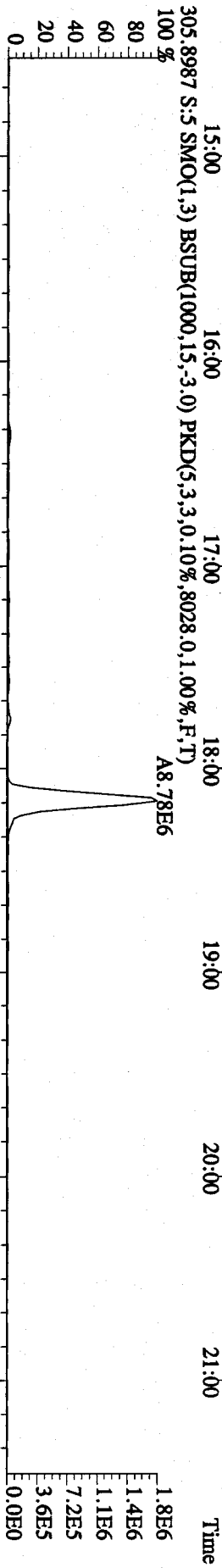
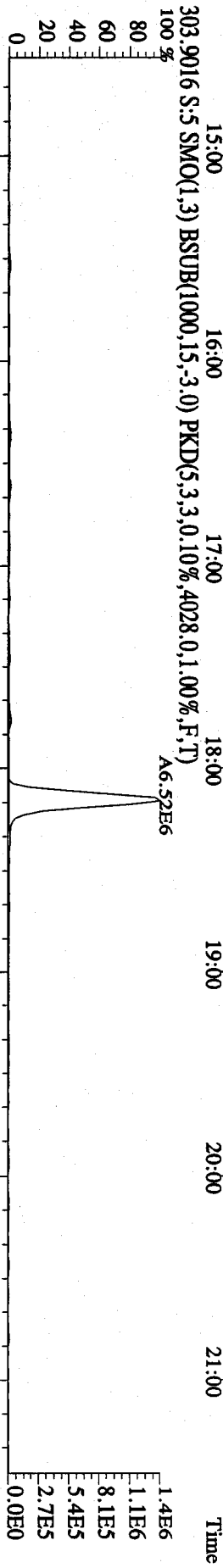
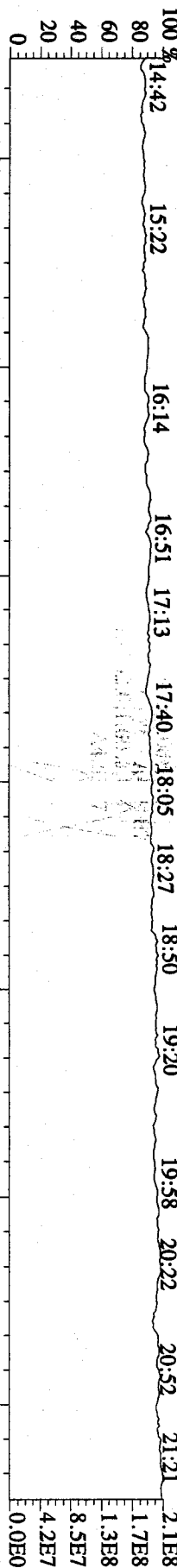


File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE

Sample#5 Text:LRNEV-1-AC :G9L280000-386C Exp:DIOXIN

457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.716,0.1,0.00%,F,T) A3.71E7

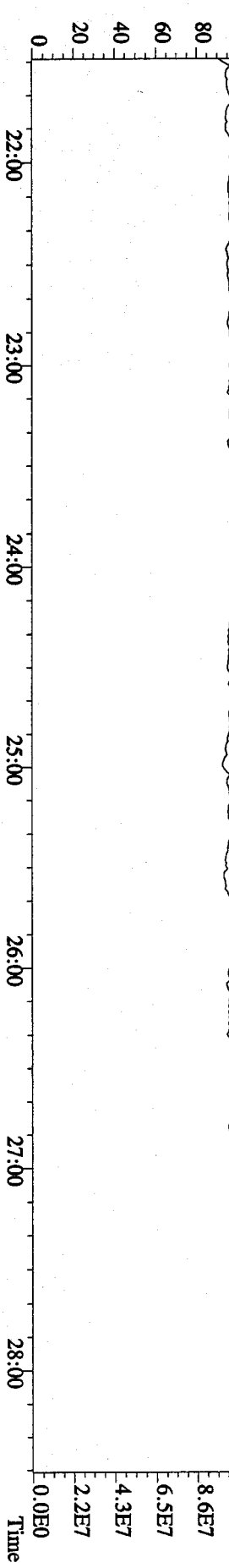




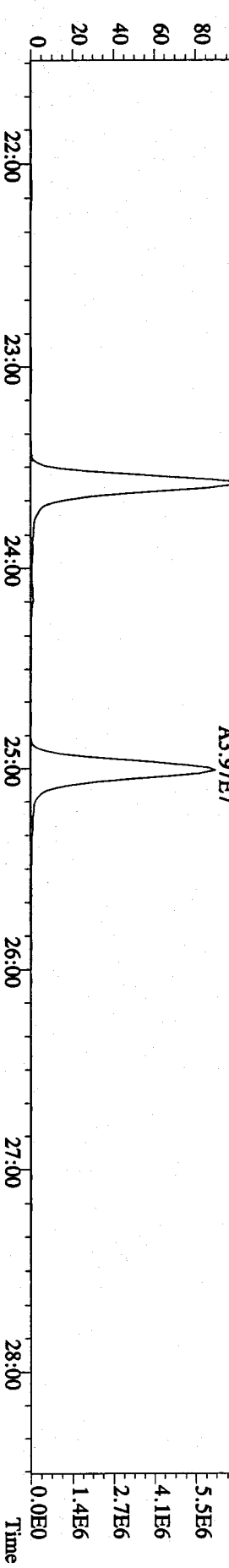
File: 04JA10A1D5 #1-495 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE

Sample#5 Text: LRNEV-1-AC :G91280000-386C Exp: DIOXIN

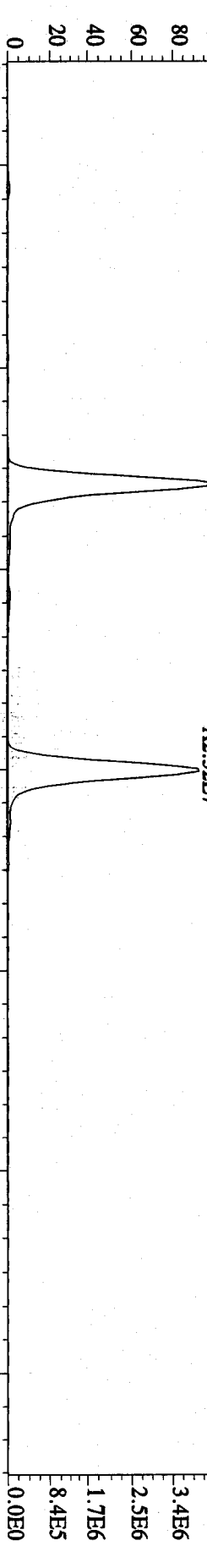
342.9792 S.S F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T) 22:02 22:28 22:57 23:21 23:42 24:04 24:38 25:20 25:43 26:04 26:36 27:15 27:54 28:18 1.1E8



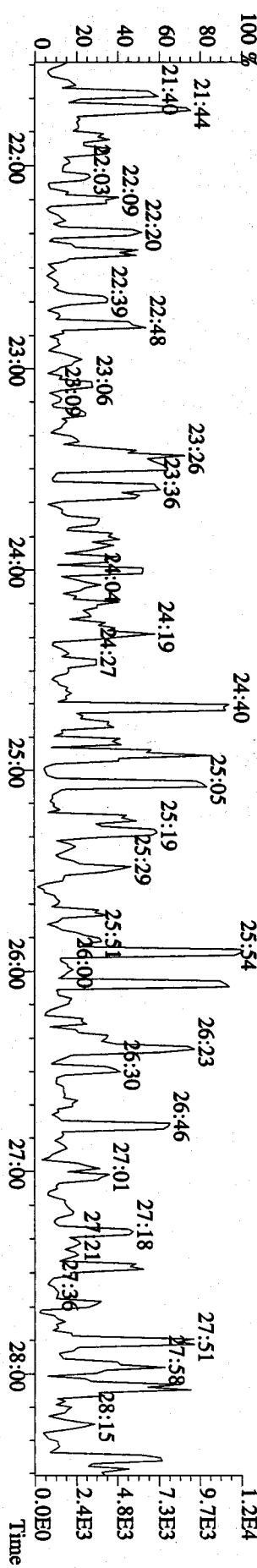
339.8597 S.S F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5848,0,1,00%,F,T) 22:00 23:00 24:00 25:00 26:00 27:00 28:00 0.0E0 6.8E6 5.5E6 4.1E6 2.7E6 1.4E6 0.0E0

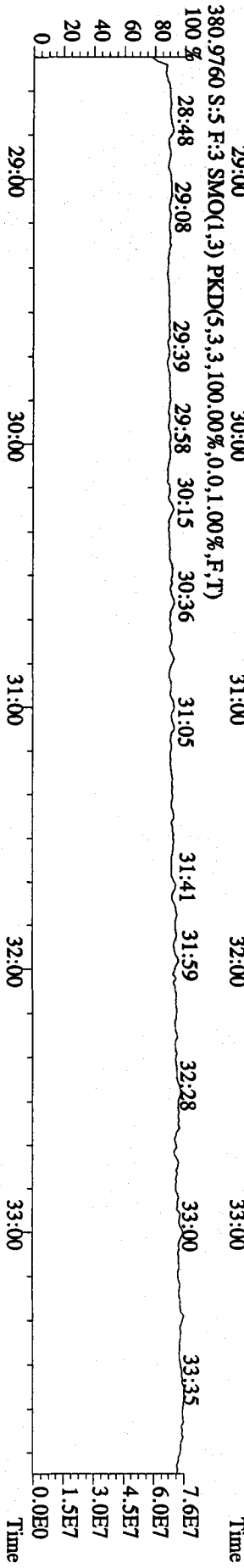
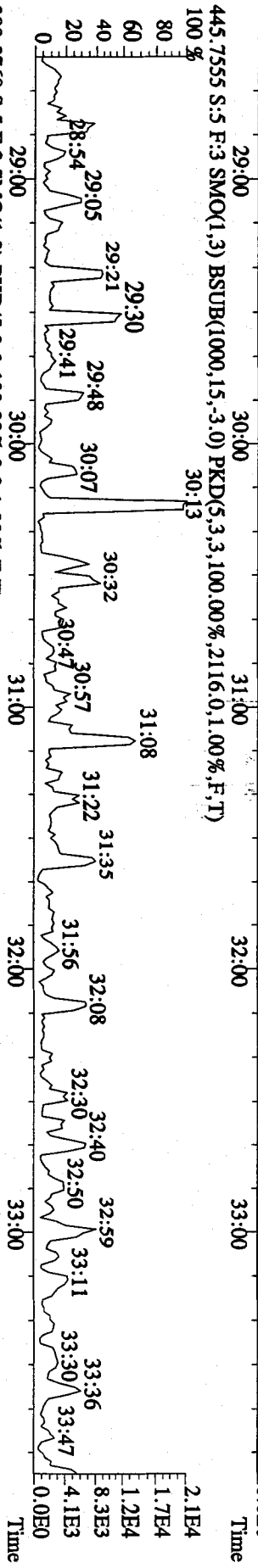
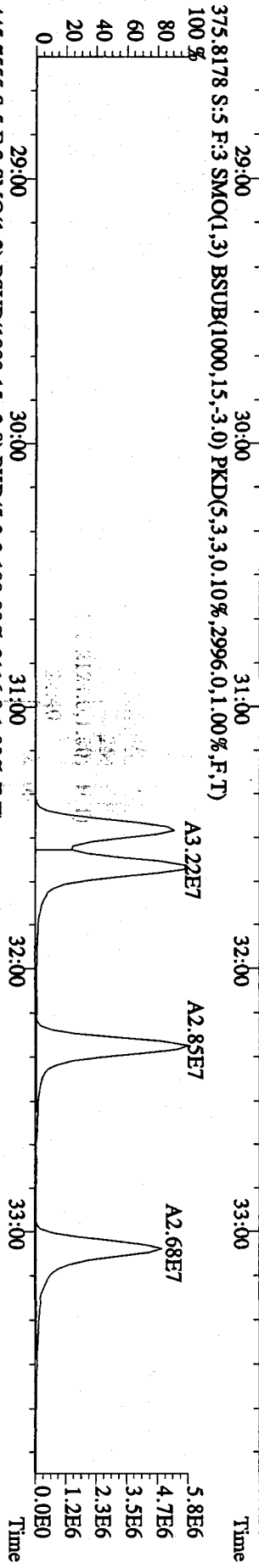
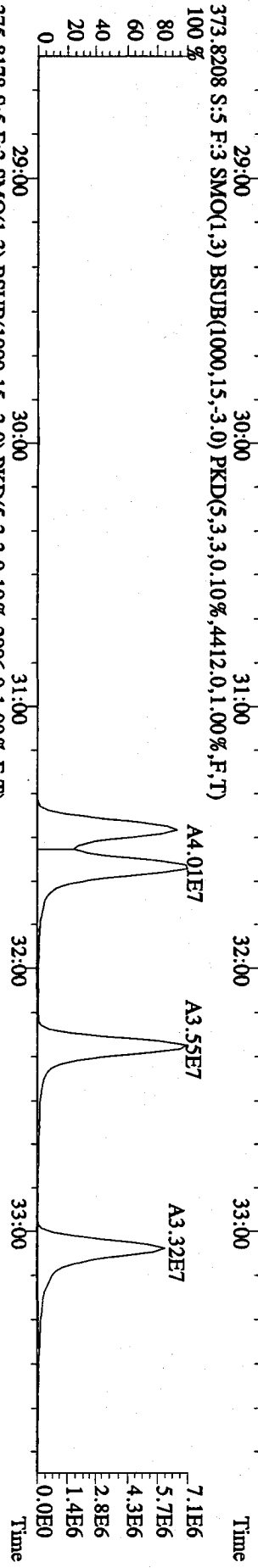
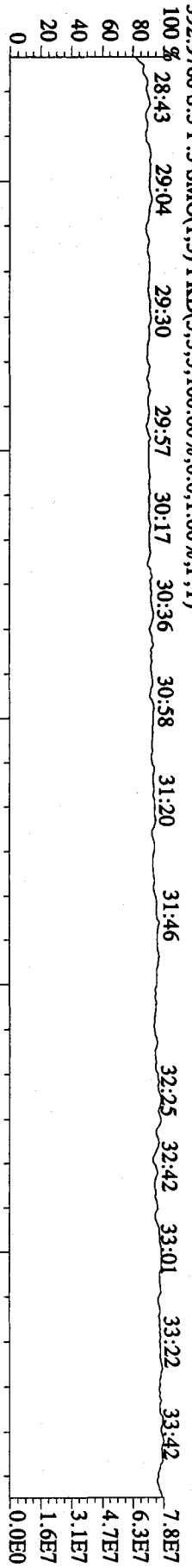


341.8567 S.S F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8088,0,1,00%,F,T) 22:00 23:00 24:00 25:00 26:00 27:00 28:00 0.0E0 4.2E6 3.4E6 2.5E6 1.7E6 8.4E5 0.0E0

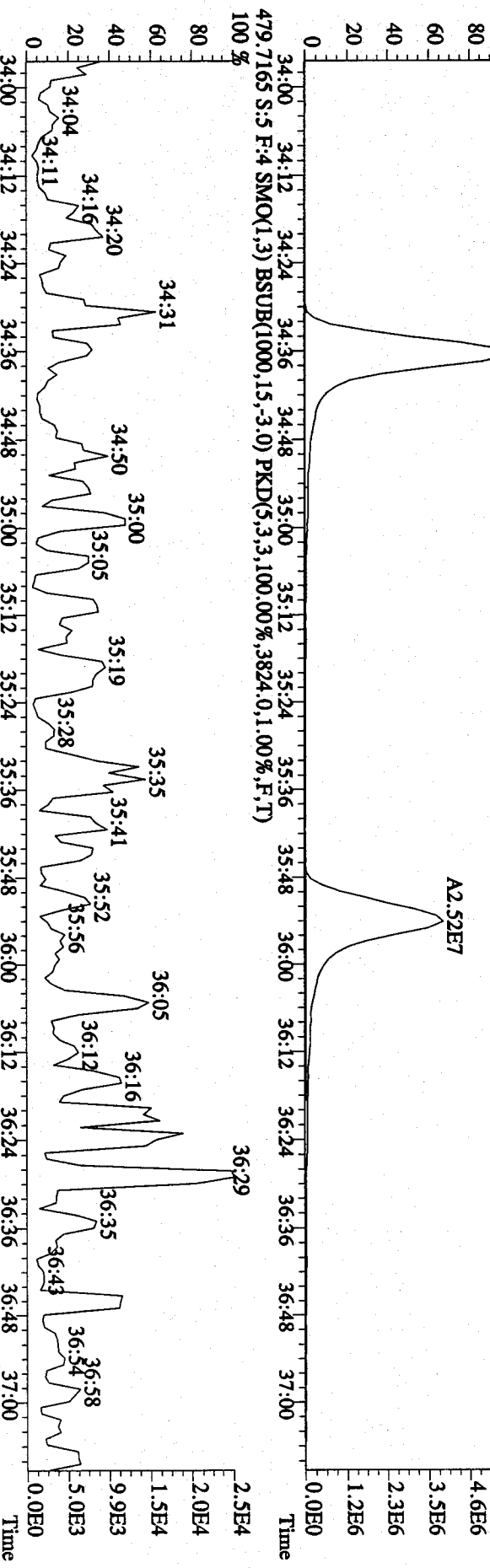
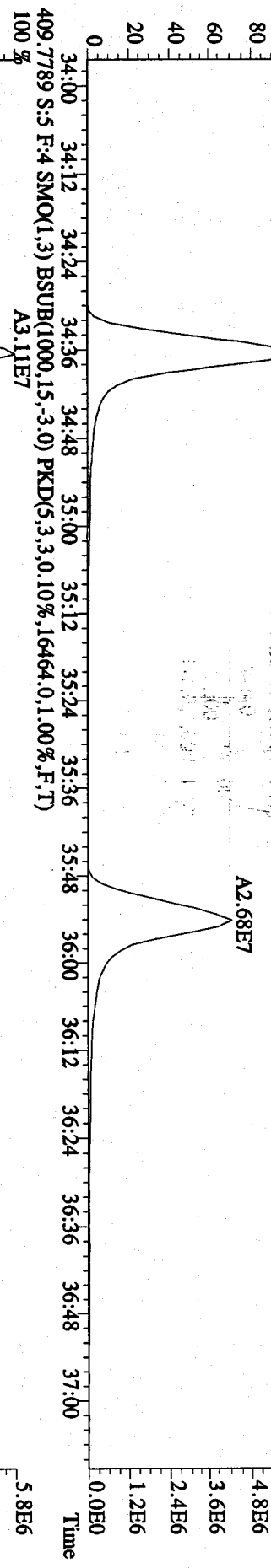
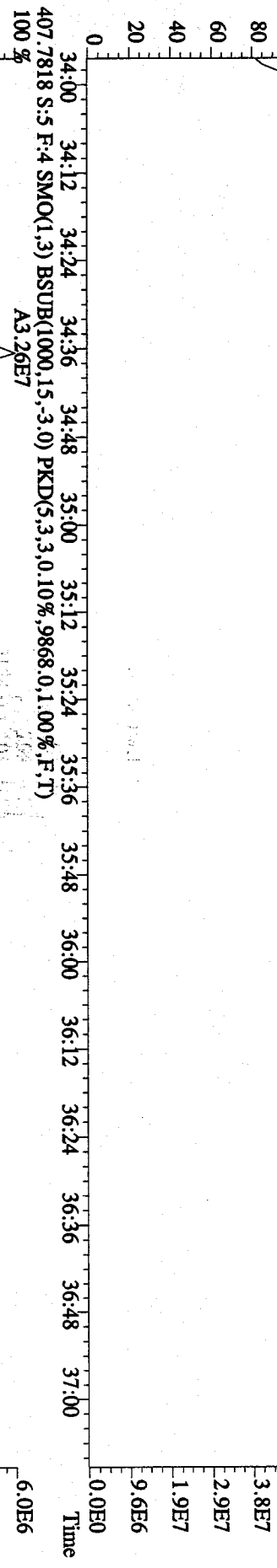


409.7974 S.S F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,2124,0,1,00%,F,T) 22:00 23:00 24:00 25:00 26:00 27:00 28:00 0.0E0 1.2E4 9.7E3 7.3E3 4.8E3 2.4E3 0.0E0





File:04JAI0AIDS #1-227 Acq: 4-JAN-2010 17:10:00 GC EI + Voltage SIR 70SE
 Sample#5 Text:LRNEY-1-AC :G9L280000-386C Exp:DIOXIN
 430.9728 S:5 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 34:02 34:15 34:48 35:13 35:25 35:38 35:53 36:07 36:24 36:43 37:08 4.8E7

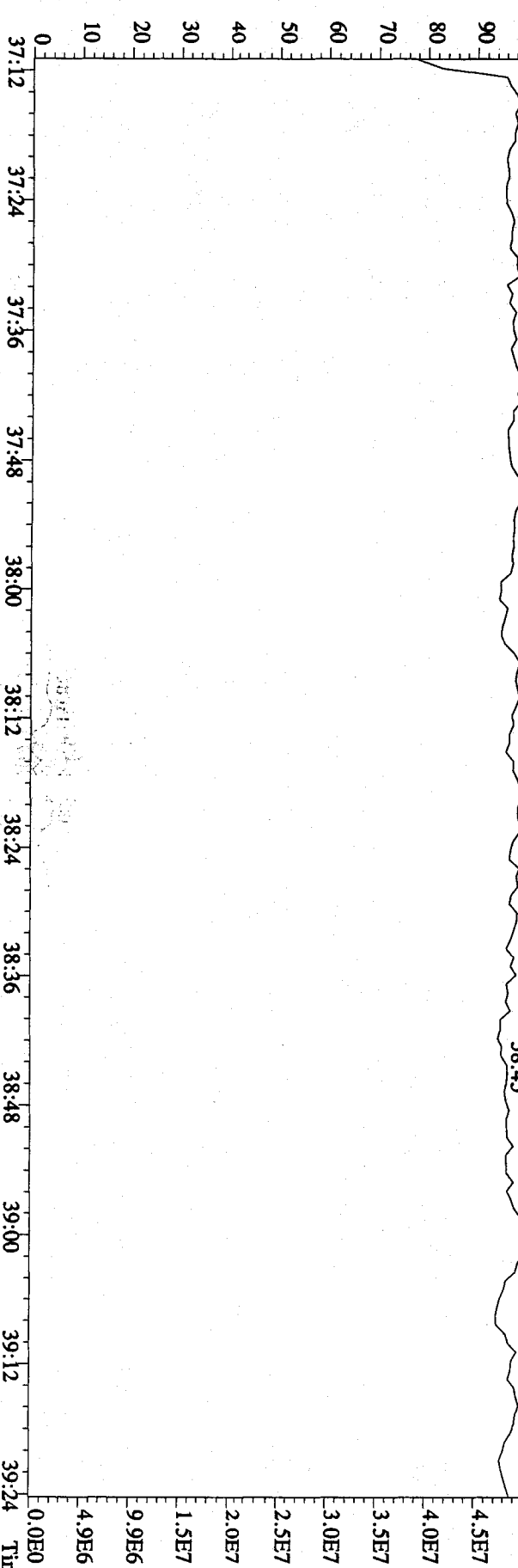
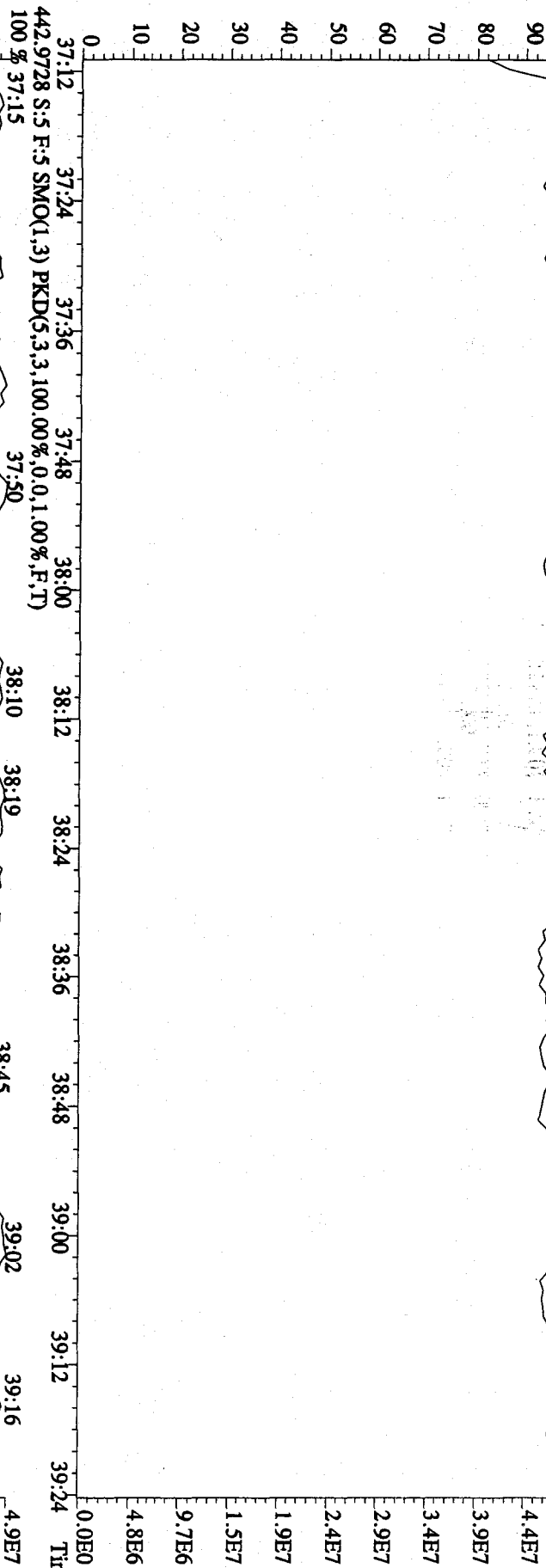


File:04JAI0AID5 #1-161 Acq: 4-JAN-2010 17:10:00 GC EI+ Voltage SIR 70SE

Sample#5 Text:LRNEV-1-AC :G9L280000-386C Exp:DIOXIN

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

100 % 37:12 37:18 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 39:12 39:24



Run text: LQ2K5-2-AC Sample text: LQ2K5-2-AC :G9L120491-1RX
 Run #13 Filename: 22DE09A4D5 S: 9 I: 1 Results: 22de09a4d582900S
 Acquired: 23-DEC-09 03:18:25 Processed: 23-DEC-09 04:42:35
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 10.02 g

05
12-28-09

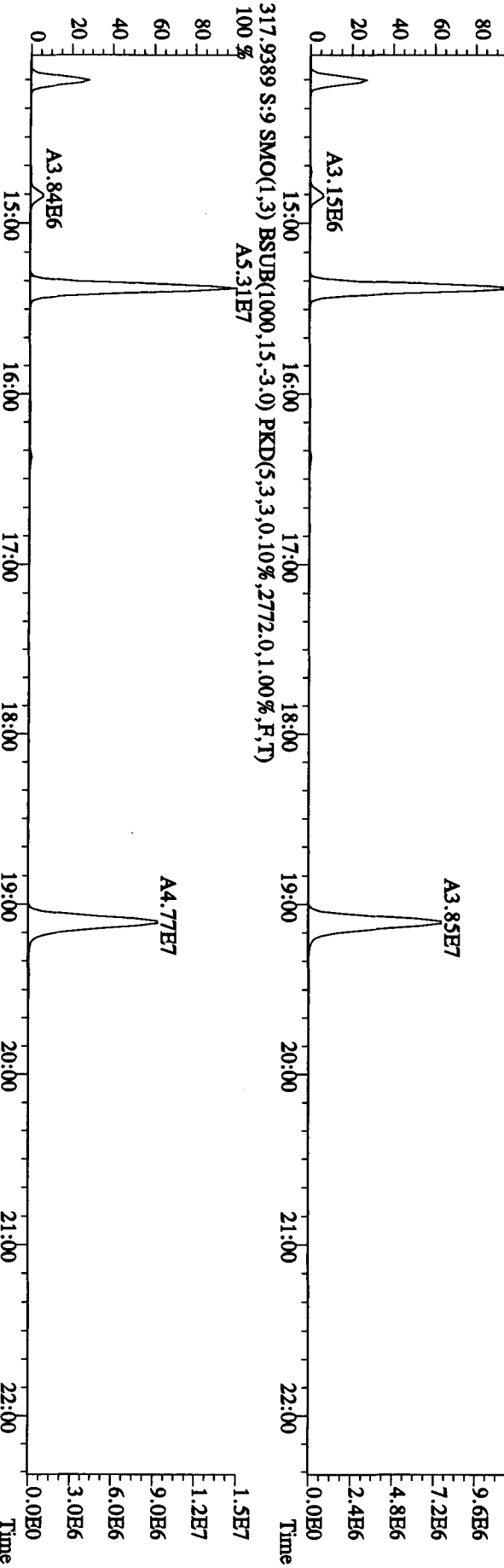
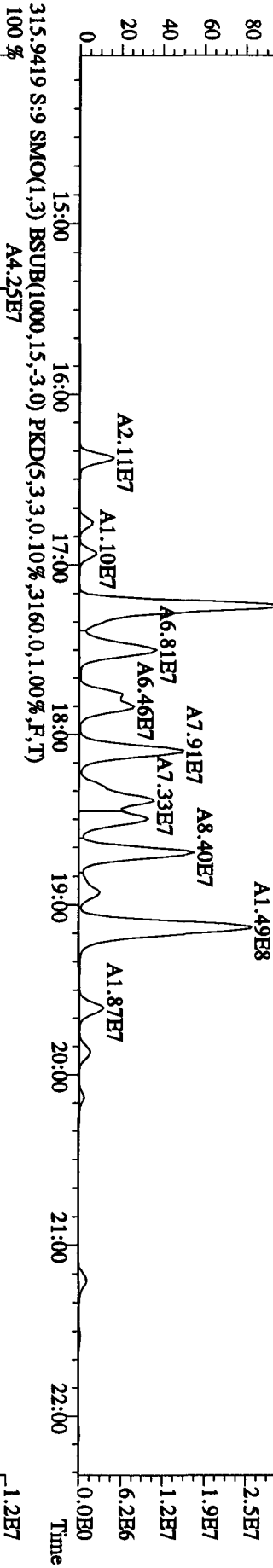
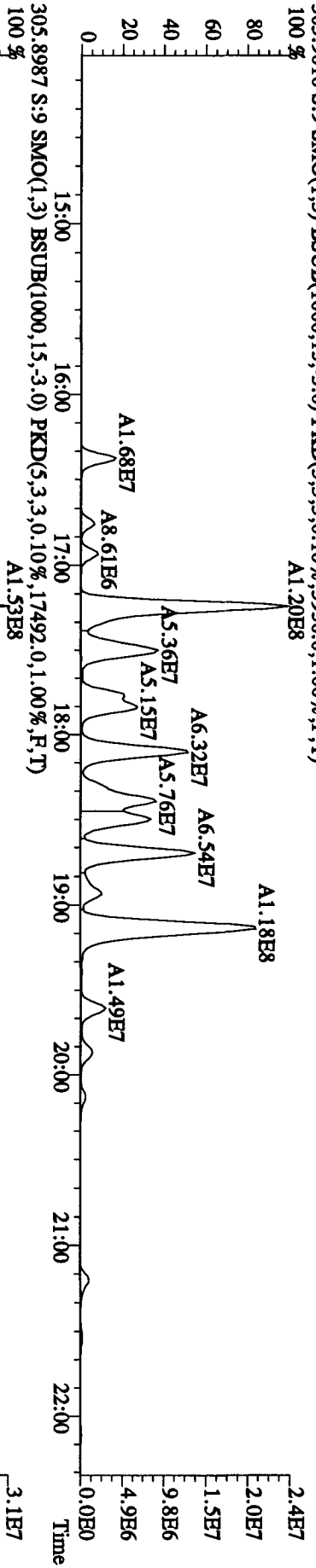
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	45008000	0.82 y	19:41	-	2.510	-	-	n
13C-2,3,7,8-TCDF	86134900	0.81 y	19:07	1.46	130.932	0.133	65.6	n
2,3,7,8-TCDF	266643000	0.79 y	19:09	1.27	485.285	0.647	-	n
Total TCDF	1475815951	0.80 y	16:23	1.27	2695.956	0.647	-	n
13C-2,3,7,8-TCDD	47401100	0.80 y	19:54	0.92	113.885	0.263	57.1	n
2,3,7,8-TCDD	2443590	0.76 y	19:55	1.23	8.387	0.207	-	n
Total TCDD	70163019	0.77 y	17:23	1.23	240.806	0.207	-	n
37Cl-2,3,7,8-TCDD	75431600	1.00 y	19:55	2.52	66.493	0.065	83.3	n
13C-1,2,3,7,8-PeCDF	52844500	1.61 y	24:51	1.27	92.496	0.100	46.3	n
1,2,3,7,8-PeCDF	177663300	1.53 y	24:53	1.30	515.527	2.142	-	n
2,3,4,7,8-PeCDF	80306900	1.54 y	26:25	1.25	242.689	2.231	-	n
Total F2 PeCDF	1269477837	1.52 y	23:05	1.28	3752.930	2.186	-	n
Total F1 PeCDF	60780155	1.60 y	21:31	1.28	179.948	0.160	-	n
13C-1,2,3,7,8-PeCDD	30033700	1.57 y	27:14	0.77	86.220	0.003	43.2	n
1,2,3,7,8-PeCDD	5875710	1.54 y	27:14	1.24	31.455	0.577	-	n
Total PeCDD	59296325	1.56 y	23:31	1.24	317.439	0.577	-	n
13C-1,2,3,7,8,9-HxCDD	28154300	1.29 y	33:13	-	1.589	-	-	n
13C-1,2,3,4,7,8-HxCDF	36275600	0.52 y	32:05	1.19	108.306	0.188	54.3	n
1,2,3,4,7,8-HxCDF	213865500	1.22 y	32:05	1.31	900.143	4.051	-	Y
1,2,3,6,7,8-HxCDF	164995100	1.23 y	32:12	1.41	642.842	3.750	-	Y
2,3,4,6,7,8-HxCDF	33663100	1.23 y	32:45	1.33	138.840	3.970	-	Y
1,2,3,7,8,9-HxCDF	26099700	1.22 y	33:25	1.20	120.125	4.430	-	Y
Total HxCDF	906048640	1.22 y	30:47	1.31	3761.833	4.036	-	Y
13C-1,2,3,6,7,8-HxCDD	23931100	1.29 y	32:57	0.75	113.603	0.120	56.9	n
1,2,3,4,7,8-HxCDD	2817190	1.21 y	32:53	1.24	18.914	0.320	-	n
1,2,3,6,7,8-HxCDD	6965600	1.20 y	32:58	1.48	39.269	0.268	-	n
1,2,3,7,8,9-HxCDD	6633970	1.26 y	33:14	1.47	37.573	0.270	-	n
Total HxCDD	44034221	1.33 y	31:33	1.40	260.510	0.284	-	n
13C-1,2,3,4,6,7,8-HpCDF	21856800	0.42 y	34:44	0.91	84.819	0.763	42.5	n
1,2,3,4,6,7,8-HpCDF	335520000	1.02 y	34:44	1.59	1921.142	3.408	-	n
1,2,3,4,7,8,9-HpCDF	118907900	1.01 y	35:52	1.33	815.623	4.082	-	n
Total HpCDF	629602600	1.02 y	34:44	1.46	3830.124	3.715	-	n
13C-1,2,3,4,6,7,8-HpCDD	16845530	1.06 y	35:32	0.71	83.654	0.552	41.9	n
1,2,3,4,6,7,8-HpCDD	15377750	1.05 y	35:33	1.31	139.372	0.744	-	n
Total HpCDD	22366338	0.30 n	34:34	1.31	202.712	0.744	-	n
13C-OCDD	17311820	0.91 y	38:04	0.61	101.281	0.238	25.4	n

OCDF	357426000	0.89	y	38:11	1.51	5461.137	2.949	-	n
OCDD	6733460	0.91	y	38:05	1.19	130.089	0.641	-	n

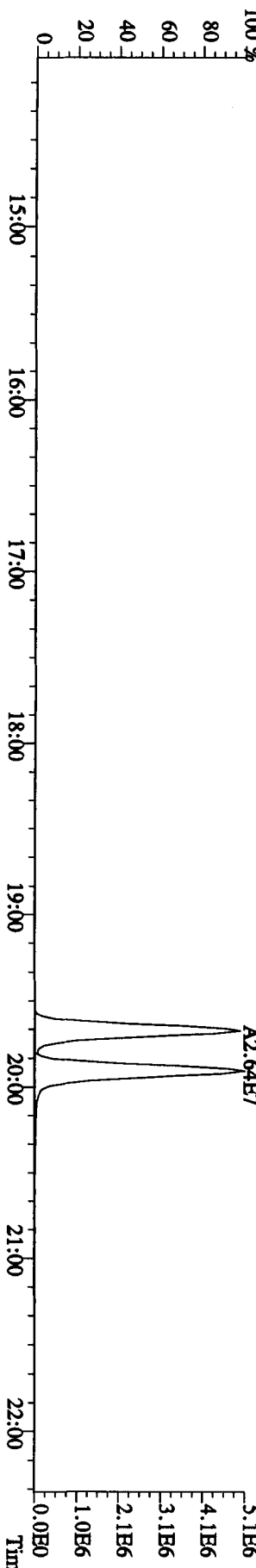
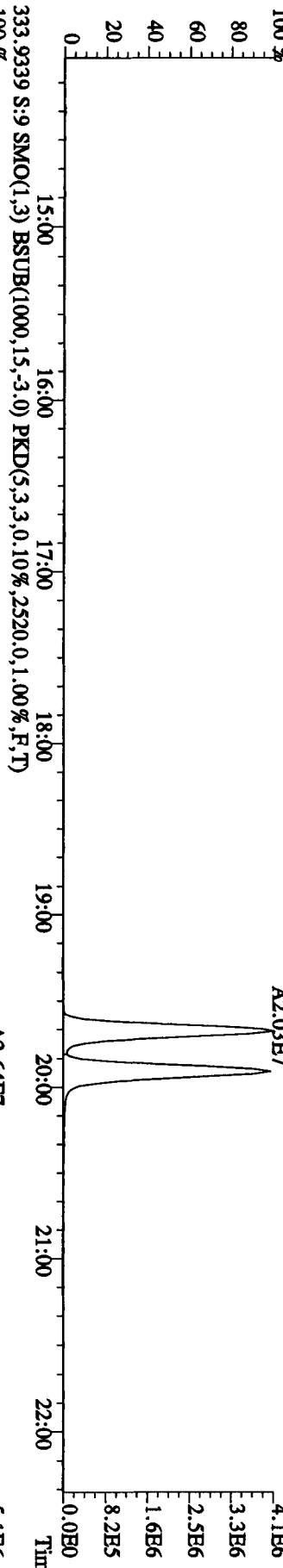
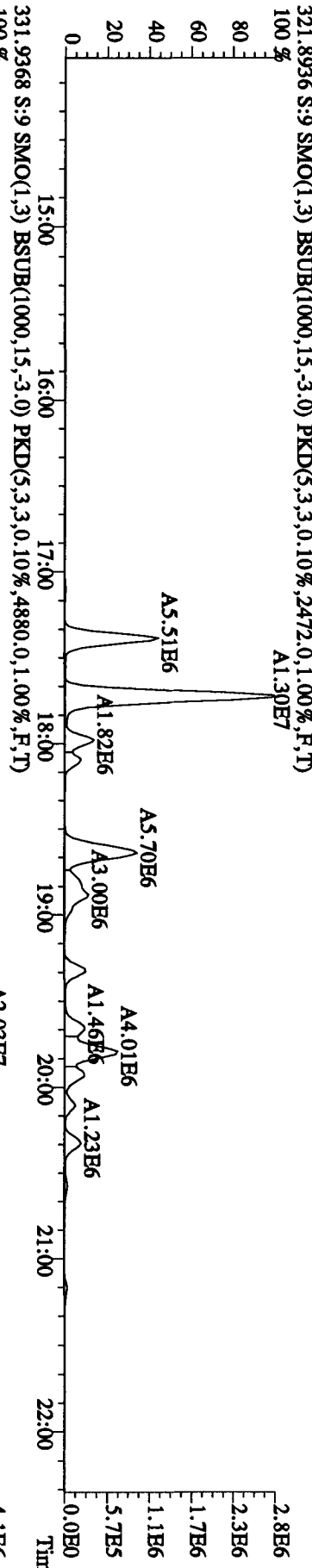
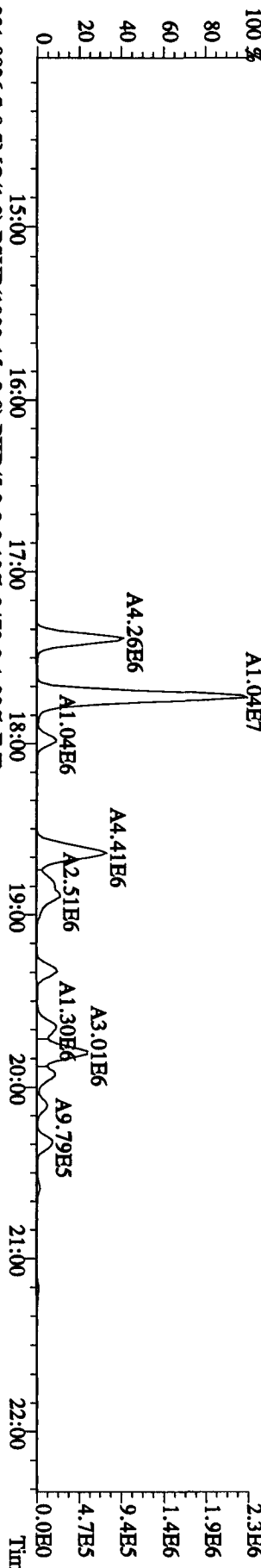
Run text: LQ2K5-2-AC Sample text: LQ2K5-2-AC :G9L120491-1RX
 Run #13 Filename: 22DE09A4D5 S: 9 I: 1 Results: 22DE09A4D58290
 Acquired: 23-DEC-09 03:18:25 Processed: 23-DEC-09 04:42:35
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.02007g

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	45008000	0.82 y	19:41	-	2.51	-	-	n
13C-2,3,7,8-TCDF	86134900	0.81 y	19:07	1.46	130.93	0.13	65.6	n
2,3,7,8-TCDF	266643000	0.79 y	19:09	1.27	485.29	0.65	-	n
Total TCDF	1475815951	0.80 y	16:23	1.27	2685.96	0.65	-	n
13C-2,3,7,8-TCDD	47401100	0.80 y	19:54	0.92	113.88	0.26	57.1	n
2,3,7,8-TCDD	2443590	0.76 y	19:55	1.23	8.39	0.21	-	n
Total TCDD	70163019	0.77 y	17:23	1.23	240.81	0.21	-	n
37Cl-2,3,7,8-TCDD	75431600	1.00 y	19:55	2.52	66.49	0.06	83.3	n
13C-1,2,3,7,8-PeCDF	52844500	1.61 y	24:51	1.27	92.50	0.10	46.3	n
1,2,3,7,8-PeCDF	177663300	1.53 y	24:53	1.30	515.53	2.14	-	n
2,3,4,7,8-PeCDF	80306900	1.54 y	26:25	1.25	242.69	2.23	-	n
Total F2 PeCDF	1269477837	1.52 y	23:05	1.28	3752.93	2.19	-	n
Total F1 PeCDF	60780155	1.60 y	21:31	1.28	179.95	0.16	-	n
13C-1,2,3,7,8-PeCDD	30033700	1.57 y	27:14	0.77	86.22	0.00	43.2	n
1,2,3,7,8-PeCDD	5875710	1.54 y	27:14	1.24	31.46	0.58	-	n
Total PeCDD	59296325	1.56 y	23:31	1.24	317.44	0.58	-	n
13C-1,2,3,7,8,9-HxCDD	28154300	1.29 y	33:13	-	1.59	-	-	n
13C-1,2,3,4,7,8-HxCDF	36275600	0.52 y	32:05	1.19	108.31	0.19	54.3	n
1,2,3,4,7,8-HxCDF	244798000	1.21 y	32:05	1.31	1030.34	4.05	-	n
1,2,3,6,7,8-HxCDF	164040600	1.22 y	32:12	1.41	639.12	3.75	-	n
2,3,4,6,7,8-HxCDF	80393900	1.21 y	32:41	1.33	331.58	3.97	-	n
1,2,3,7,8,9-HxCDF	49759700	1.24 y	33:27	1.20	229.02	4.43	-	n
Total HxCDF	1057567630	1.22 y	30:47	1.31	4404.41	4.04	-	n
13C-1,2,3,6,7,8-HxCDD	23931100	1.29 y	32:57	0.75	113.60	0.12	56.9	n
1,2,3,4,7,8-HxCDD	2817190	1.21 y	32:53	1.24	18.91	0.32	-	n
1,2,3,6,7,8-HxCDD	6965600	1.20 y	32:58	1.48	39.27	0.27	-	n
1,2,3,7,8,9-HxCDD	6633970	1.26 y	33:14	1.47	37.57	0.27	-	n
Total HxCDD	44034221	1.33 y	31:33	1.40	260.51	0.28	-	n
13C-1,2,3,4,6,7,8-HpCDF	21856800	0.42 y	34:44	0.91	84.82	0.76	42.5	n
1,2,3,4,6,7,8-HpCDF	335520000	1.02 y	34:44	1.59	1921.14	3.41	-	n
1,2,3,4,7,8,9-HpCDF	118907900	1.01 y	35:52	1.33	815.62	4.08	-	n
Total HpCDF	629602600	1.02 y	34:44	1.46	3830.12	3.71	-	n
13C-1,2,3,4,6,7,8-HpCDD	16845530	1.06 y	35:32	0.71	83.65	0.55	41.9	n
1,2,3,4,6,7,8-HpCDD	15377750	1.05 y	35:33	1.31	139.37	0.74	-	n
Total HpCDD	22366338	0.30 n	34:34	1.31	202.71	0.74	-	n
13C-OCDD	17311820	0.91 y	38:04	0.61	101.28	0.24	25.4	n
OCDF	357426000	0.89 y	38:11	1.51	5461.14	2.95	-	n
OCDD	6733460	0.91 y	38:05	1.19	130.09	0.64	-	n

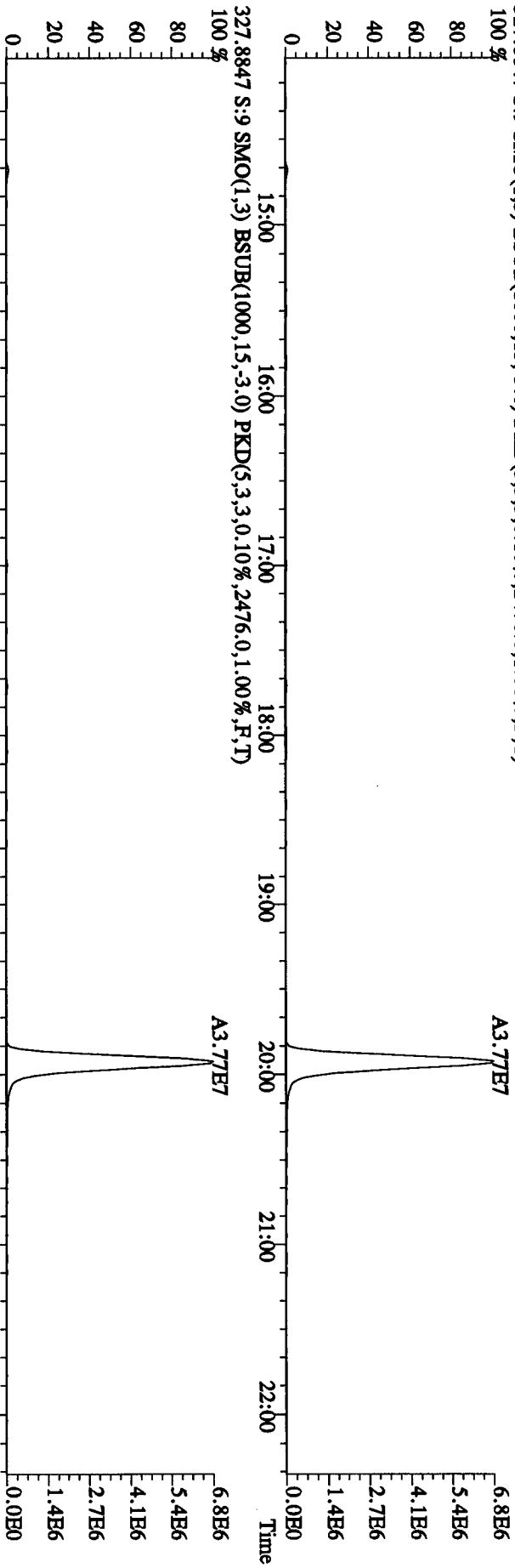
File:22DE09A4D5 #1-578 Acq:23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#9 Text:LQ2K5-2-AC :G9L120491-1RX Exp:DIOXIN
 303.9016 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5956,0,1,00%,F,T) A1.20E8



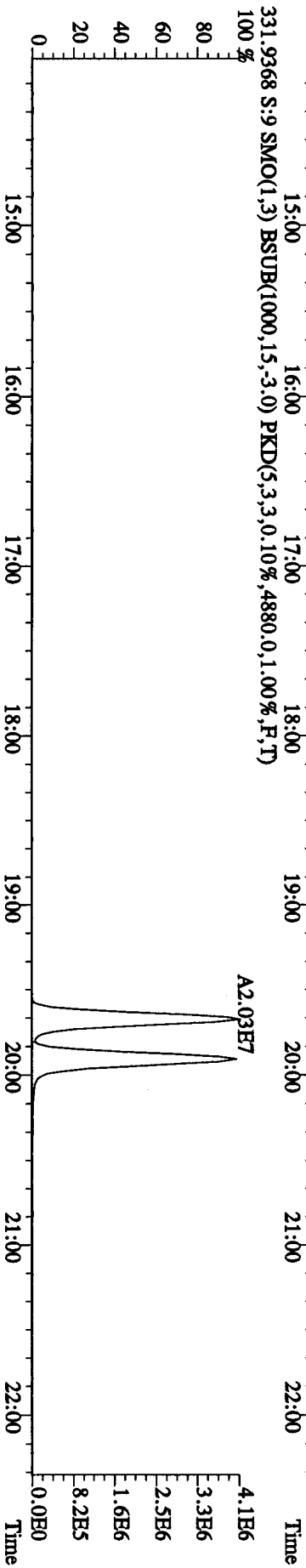
Sample#9 Text:LQ2K5-2-AC :G9L120491-1RX Exp:DIOXIN



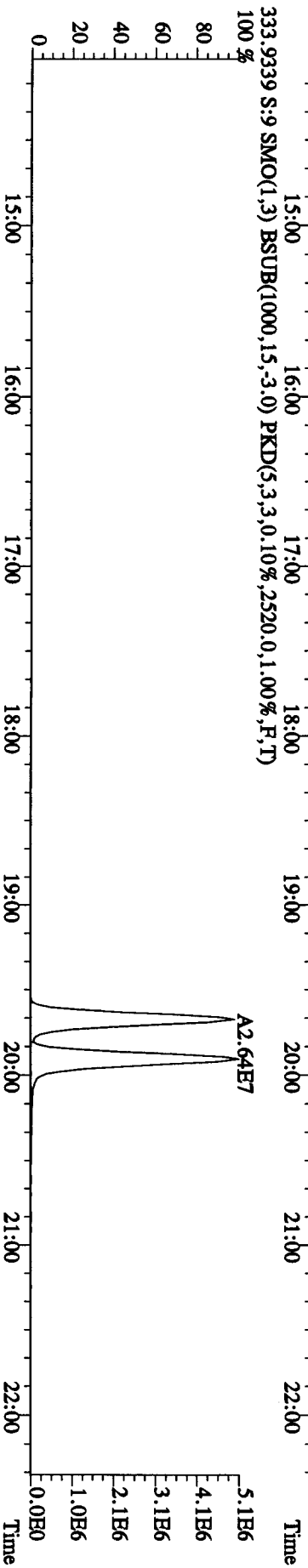
327.8847 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2476.0,1.00%,F,T) 100 %



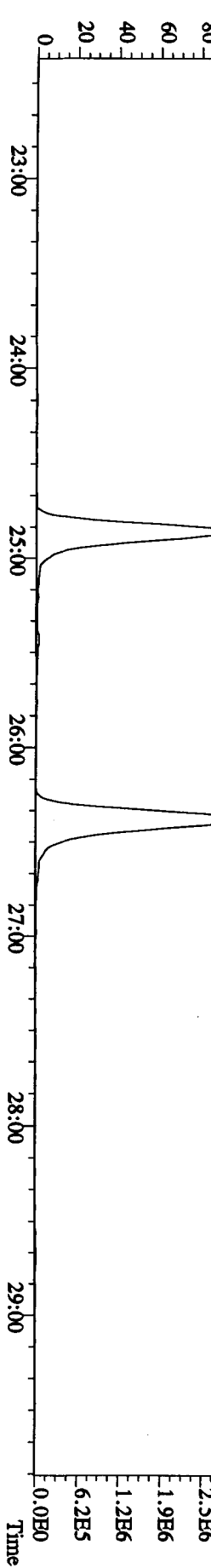
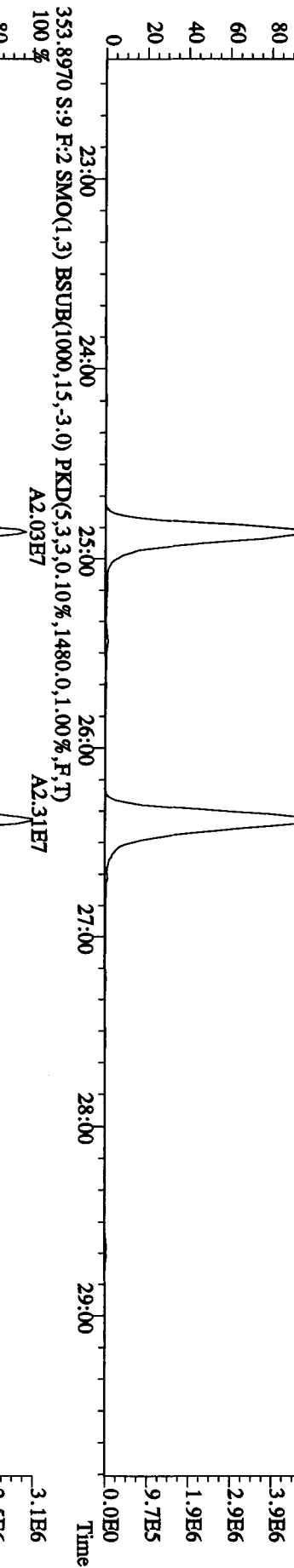
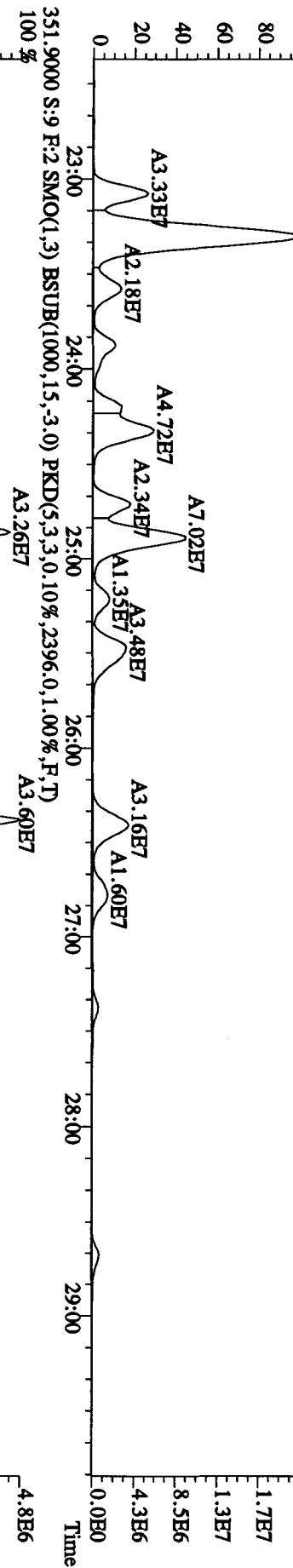
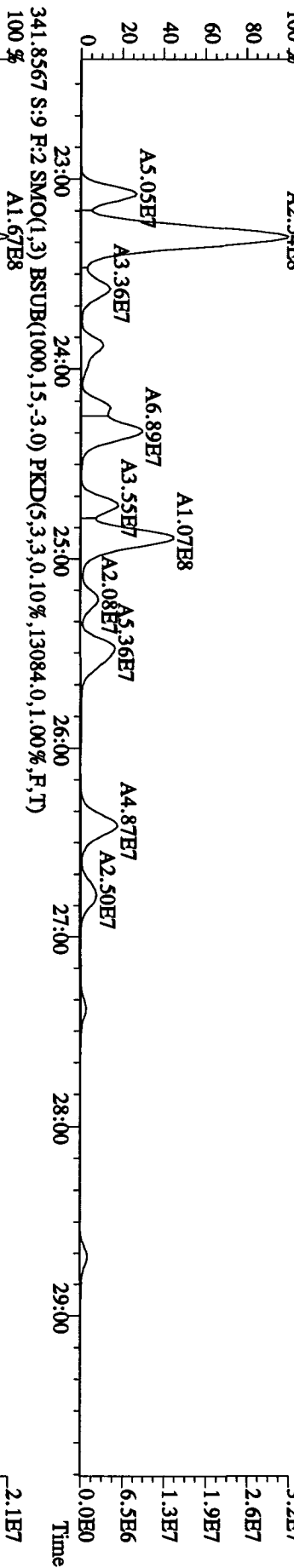
331.9368 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4880.0,1.00%,F,T) 100 %



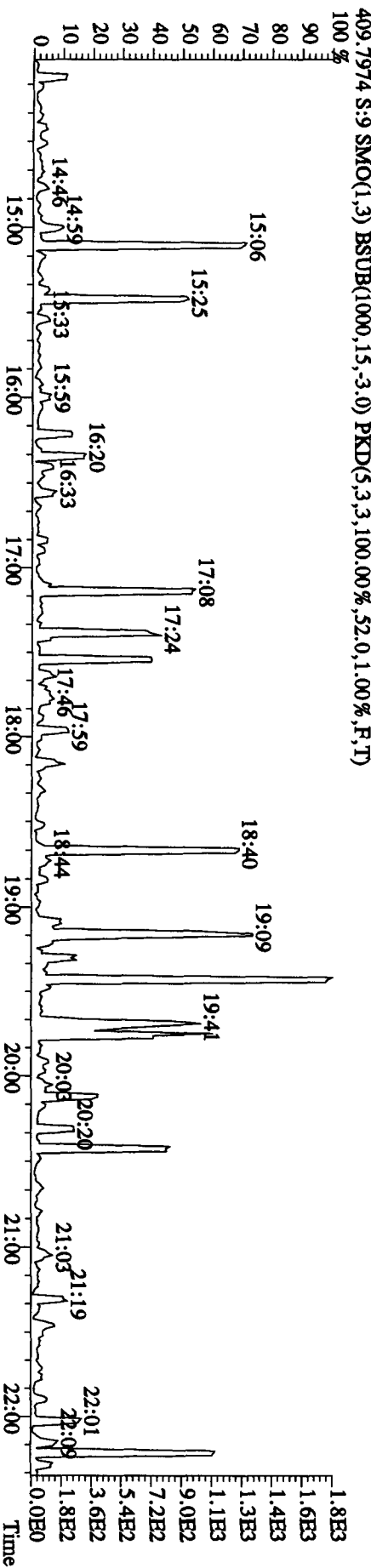
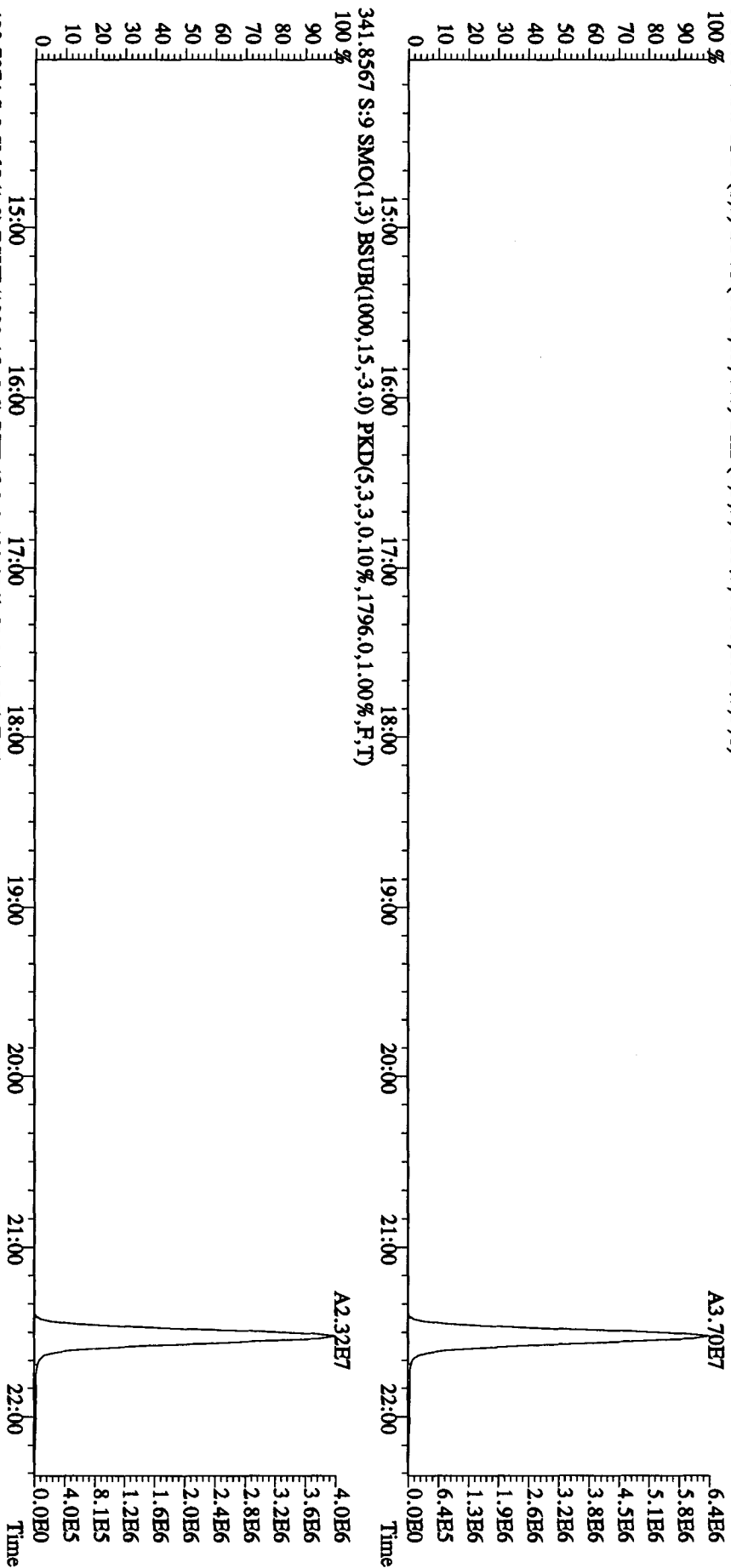
333.9339 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2520.0,1.00%,F,T) 100 %



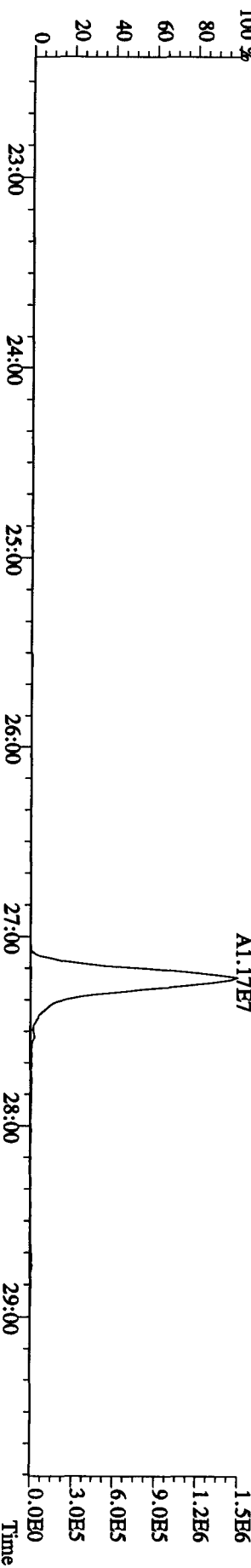
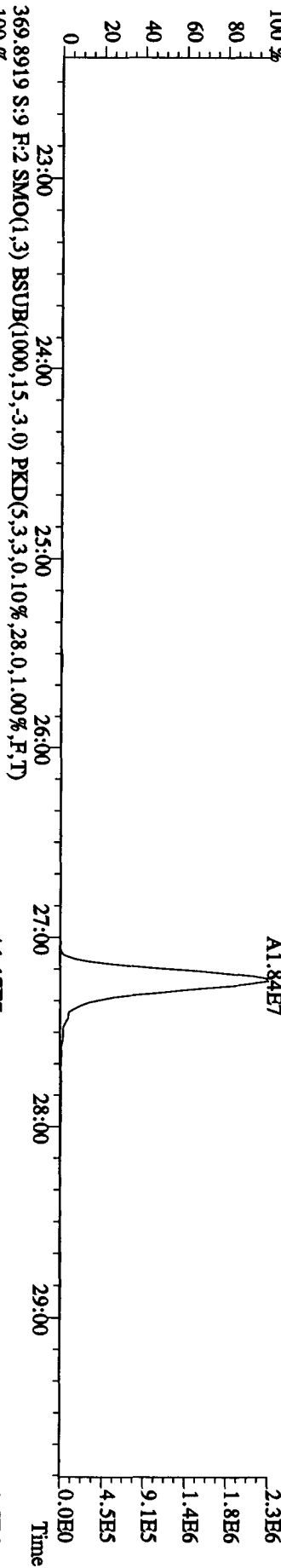
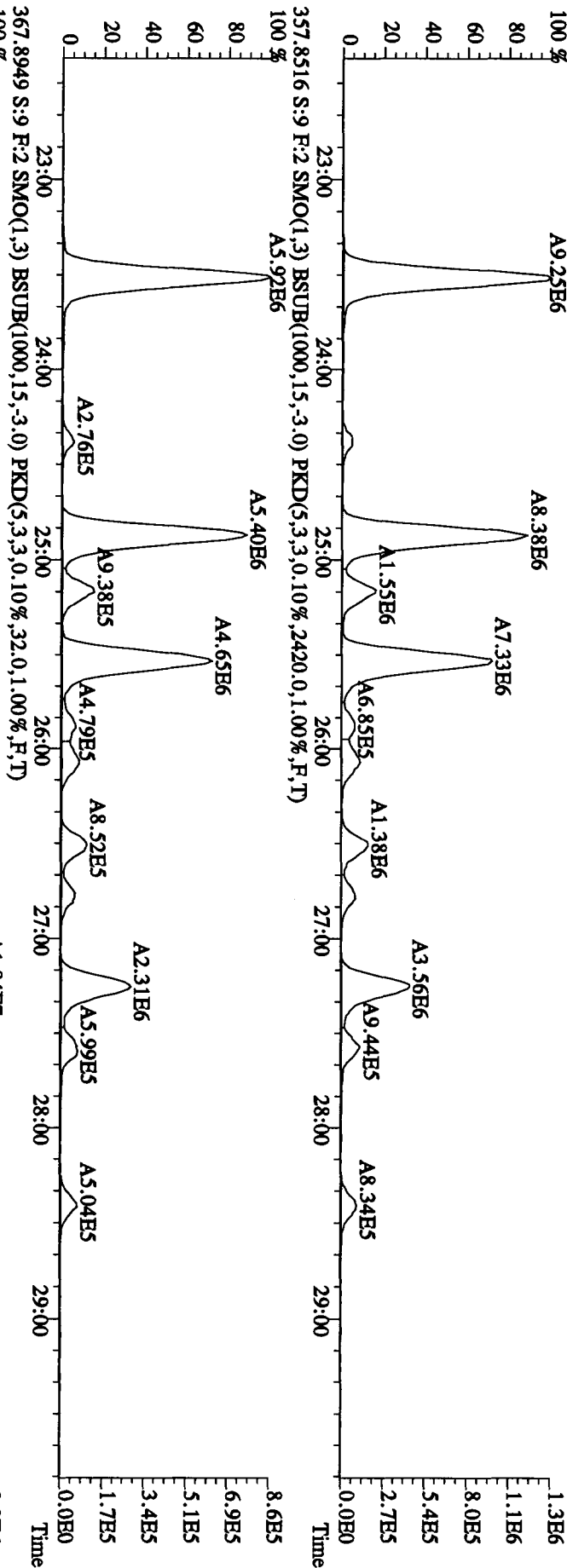
File:22DBE09A4D5 #1-596 Acq:23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text:LQ2K5-2-AC :G9L120491-1RX Exp:DIOXIN
 339,8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22364.0,1.00%,F,T)
 100 % A2.54E8

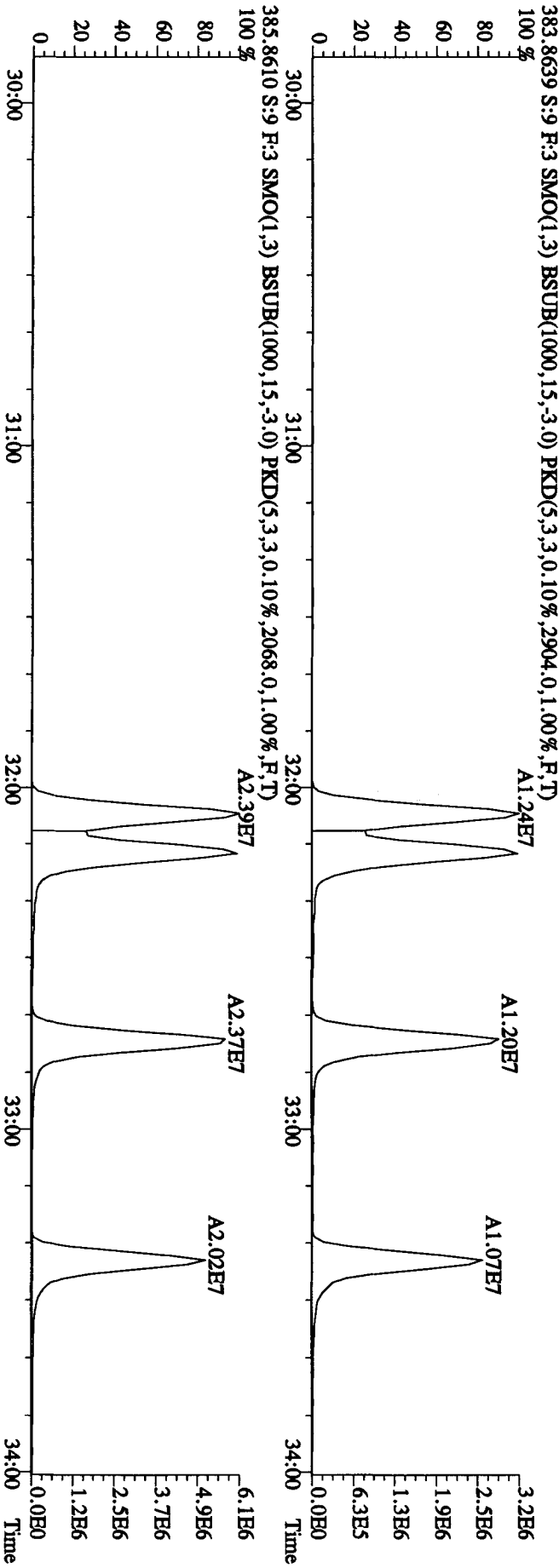
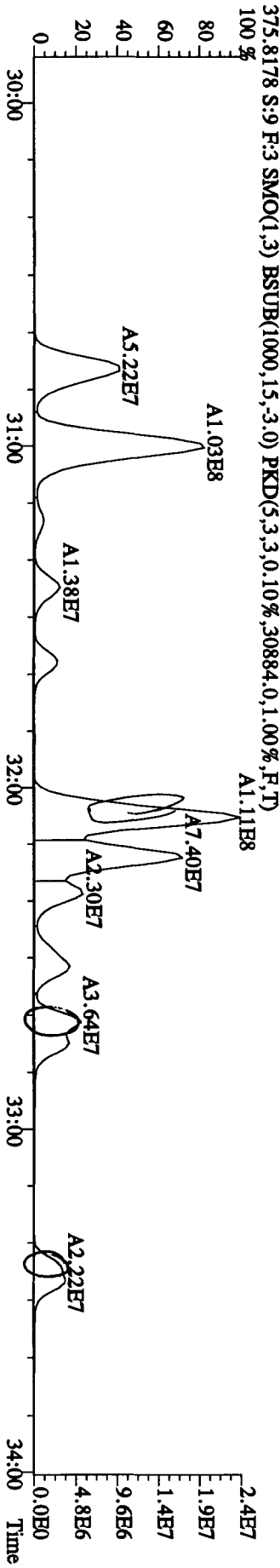
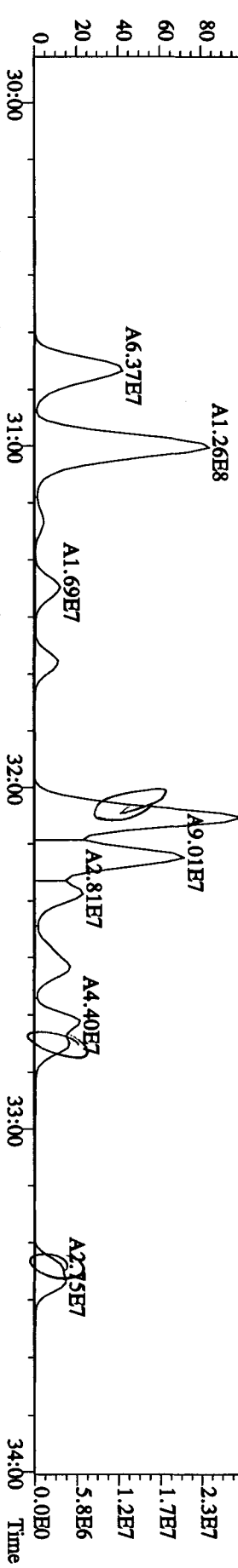


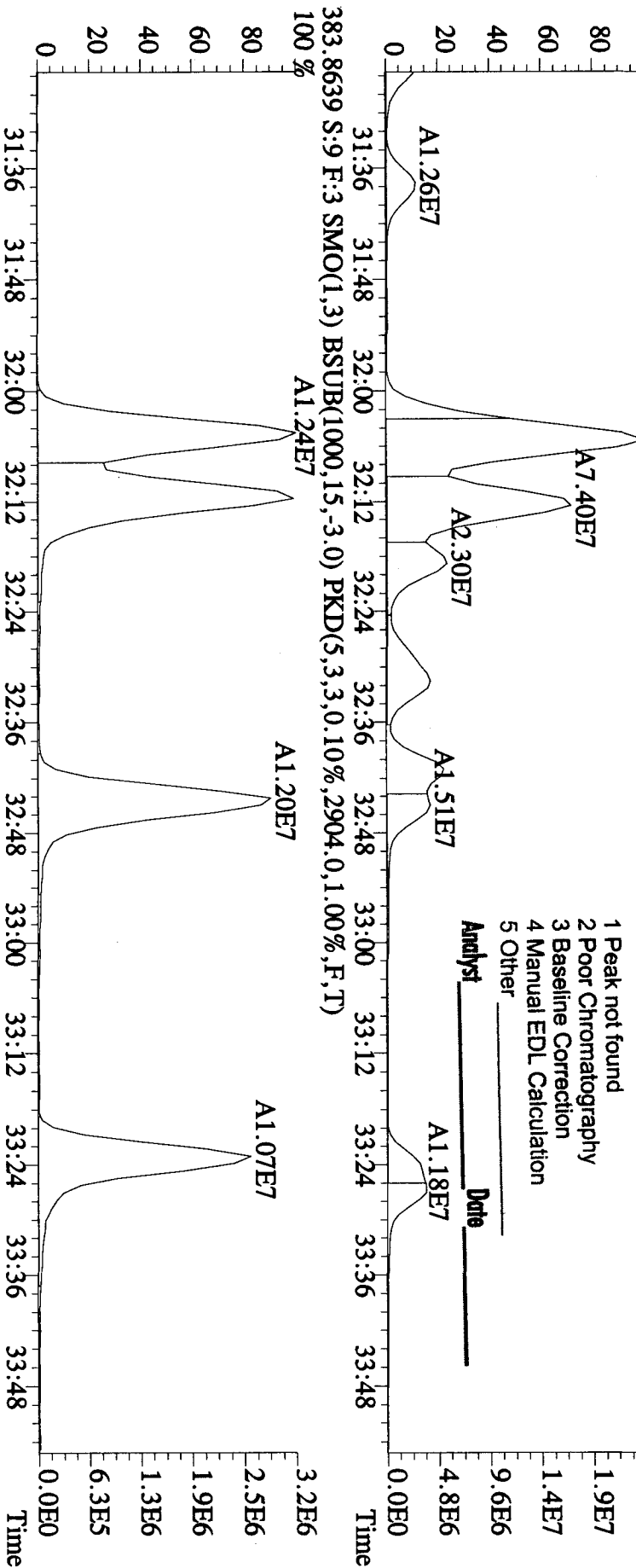
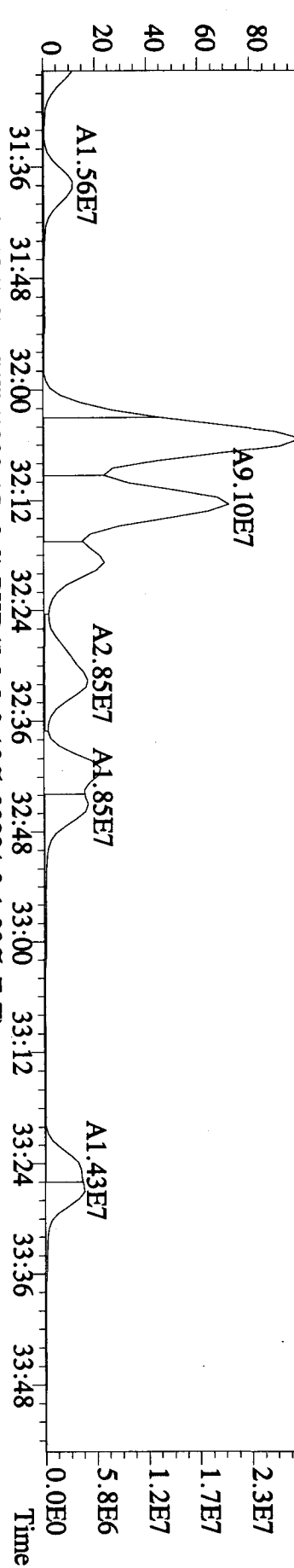
File:22DE09A4D5 #1-578 Acq:23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text:LQZK5-2-AC :G9L120491-1RX Exp:DIOXIN
 339,8597 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,800.0,1.00%,F,T)



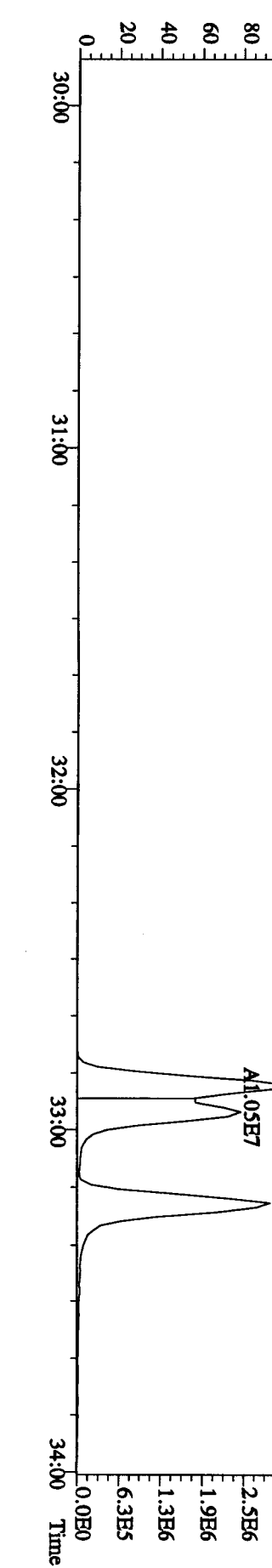
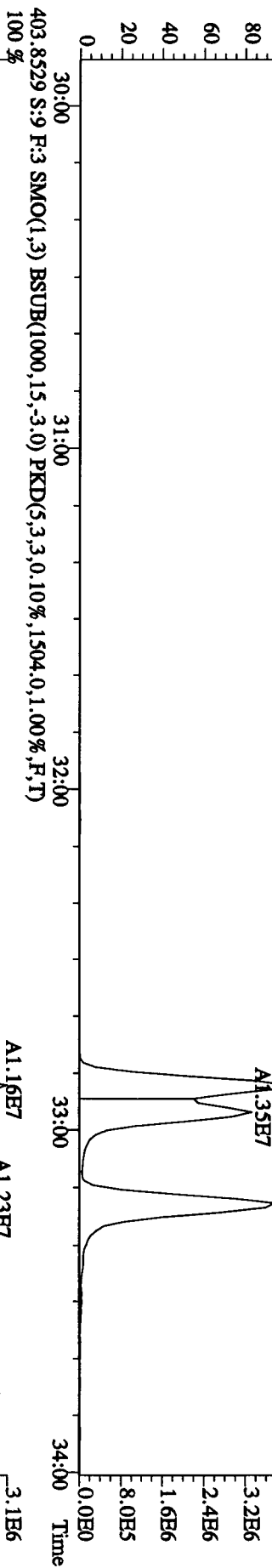
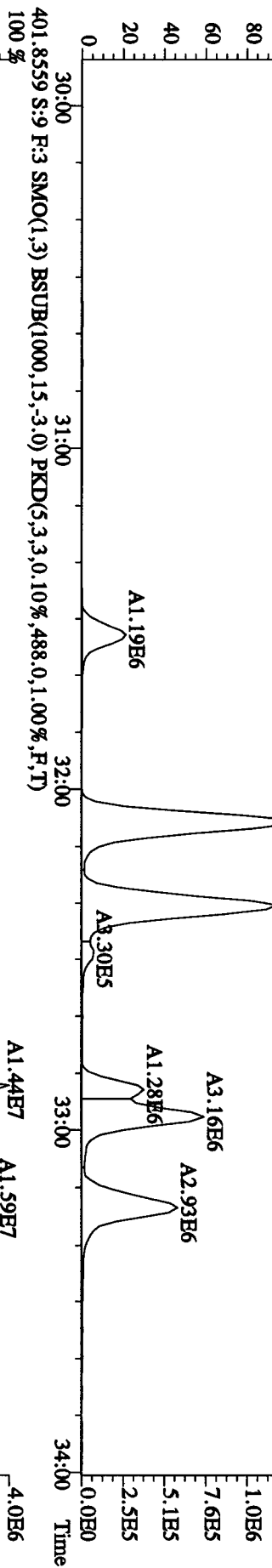
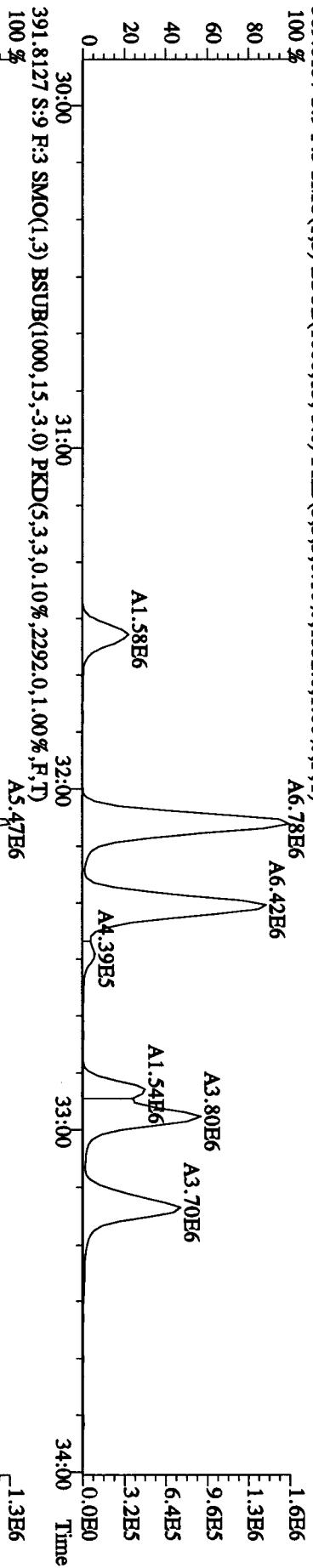
File: 22DE09A4D5 #1-596 Acq: 23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#9 Text: L:Q2K5-2-AC :G9L120491-1RX Exp: DIOXIN
 355.8546 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2108,0.1,00%,F,T)
 100%







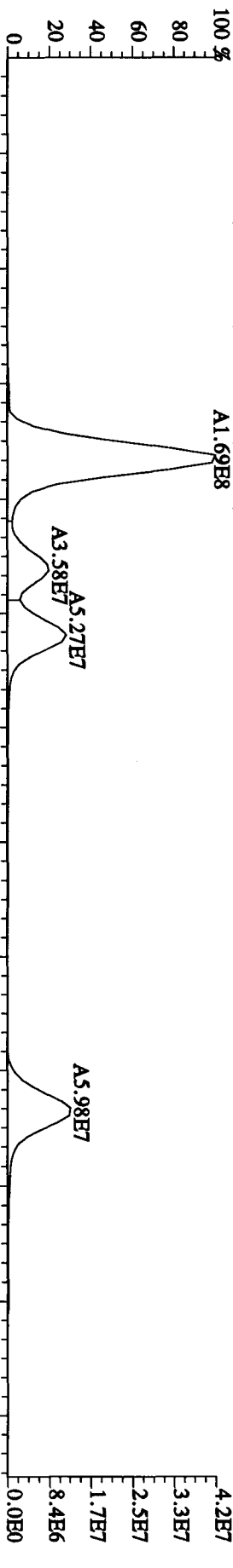
File:22DE09A4D5 #1-314 Acq:23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#9 Text:LQ2K5-2-AC :G9L120491-1RX Exp:DIOXIN
 389.8157 S:9 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1532.0,1.00%,F,T)
 100 %



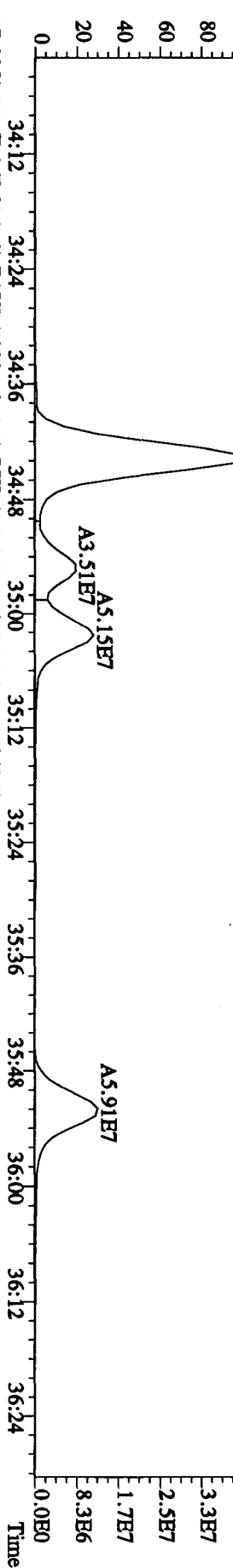
File: 22DDE09A4D5 #1-198 Acq: 23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-UltimaB

Sample#9 Text: LQ2K5-2-AC :G9L120491-1RX Exp: DIOXIN

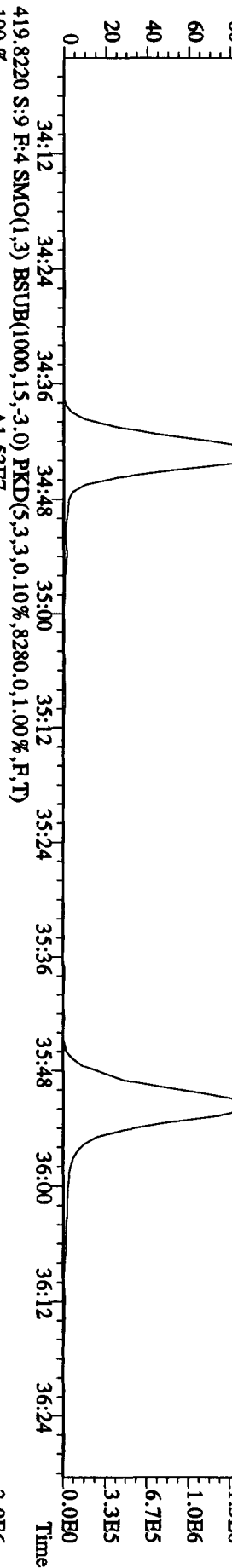
407.7818 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,31376.0,1.00%,F,T)



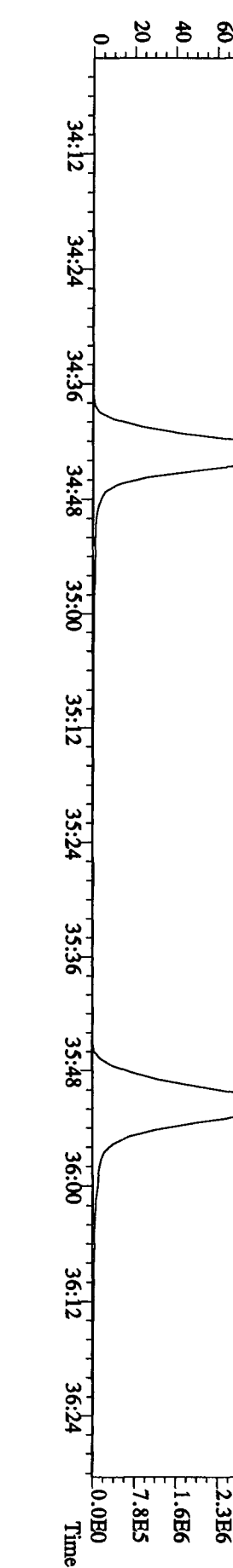
409.7789 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19052.0,1.00%,F,T)



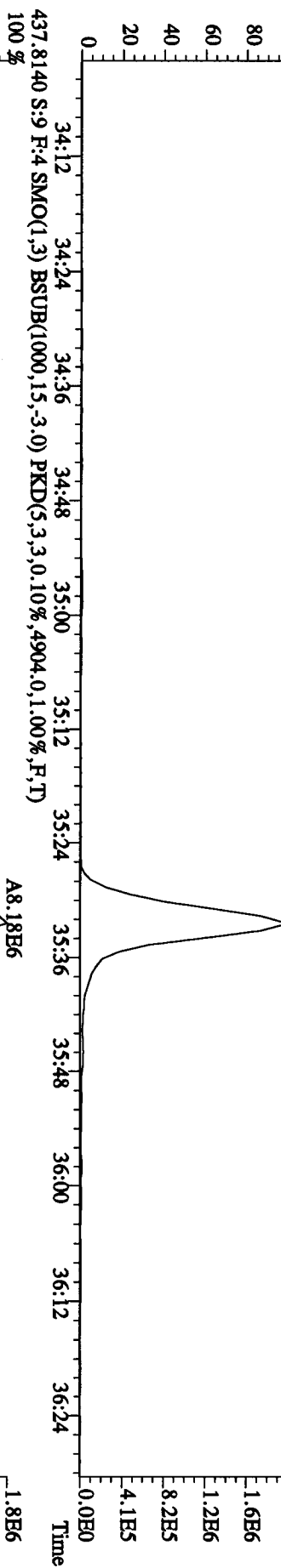
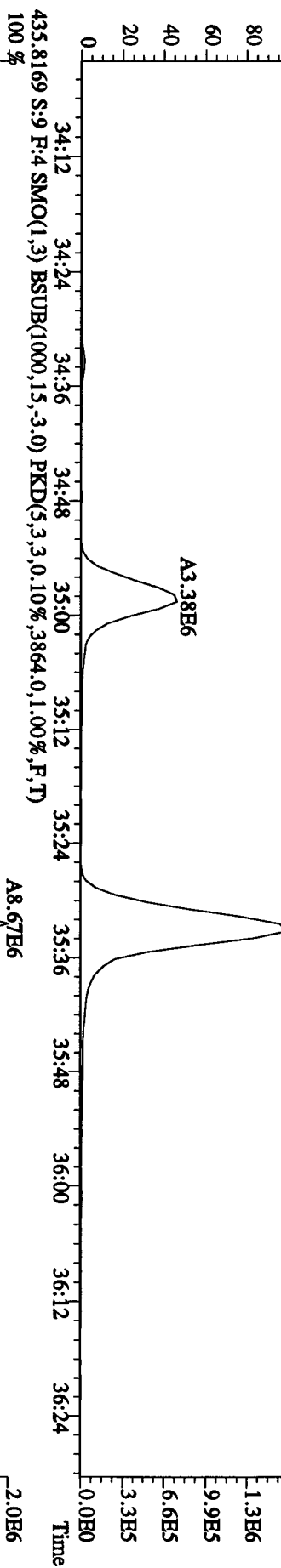
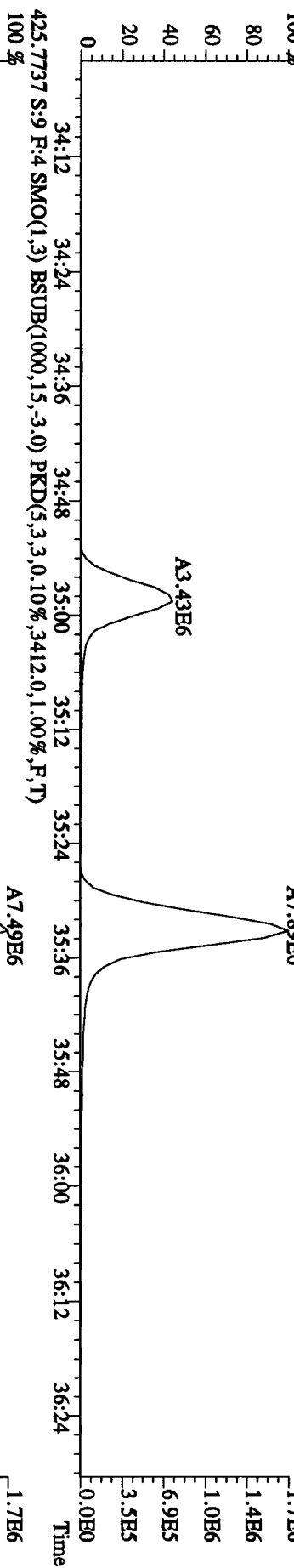
417.8253 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7236.0,1.00%,F,T)



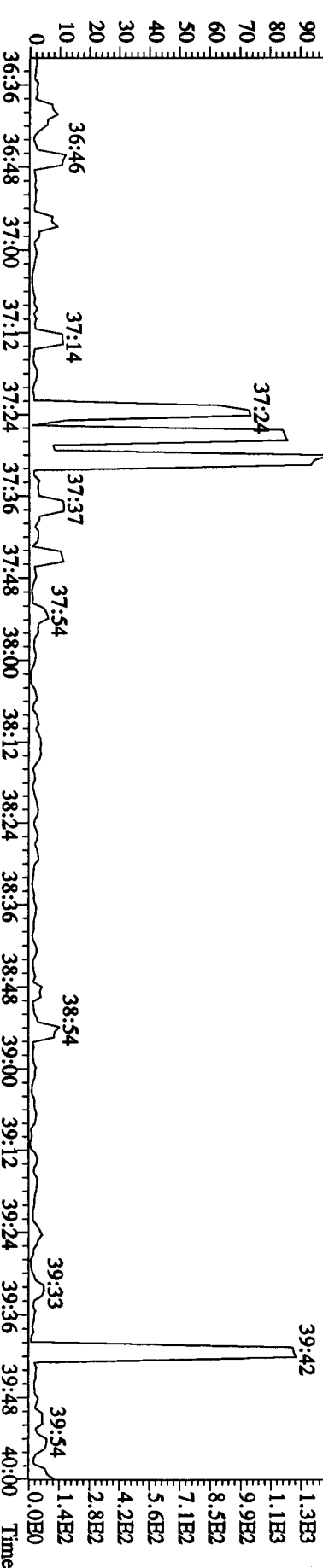
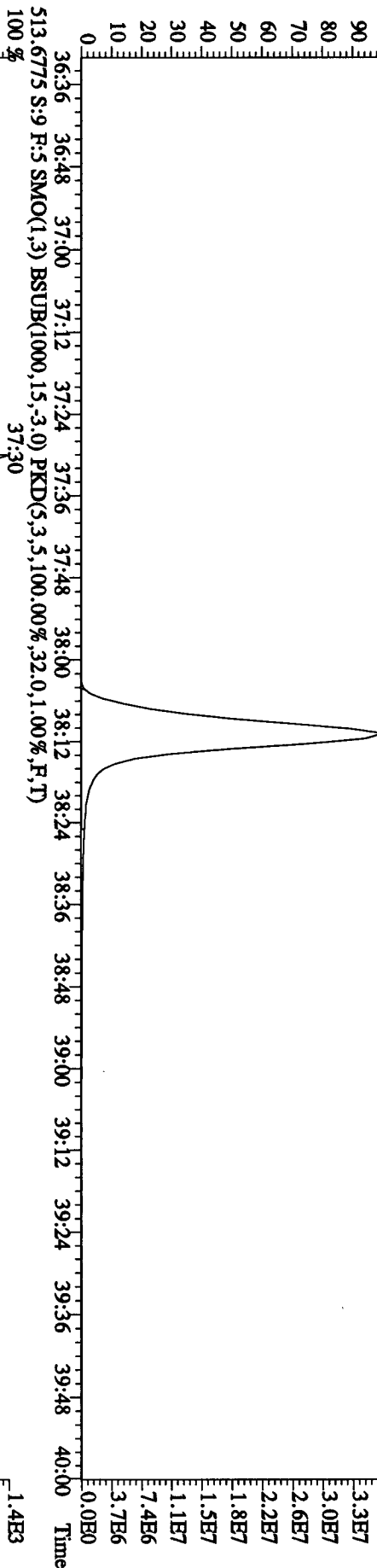
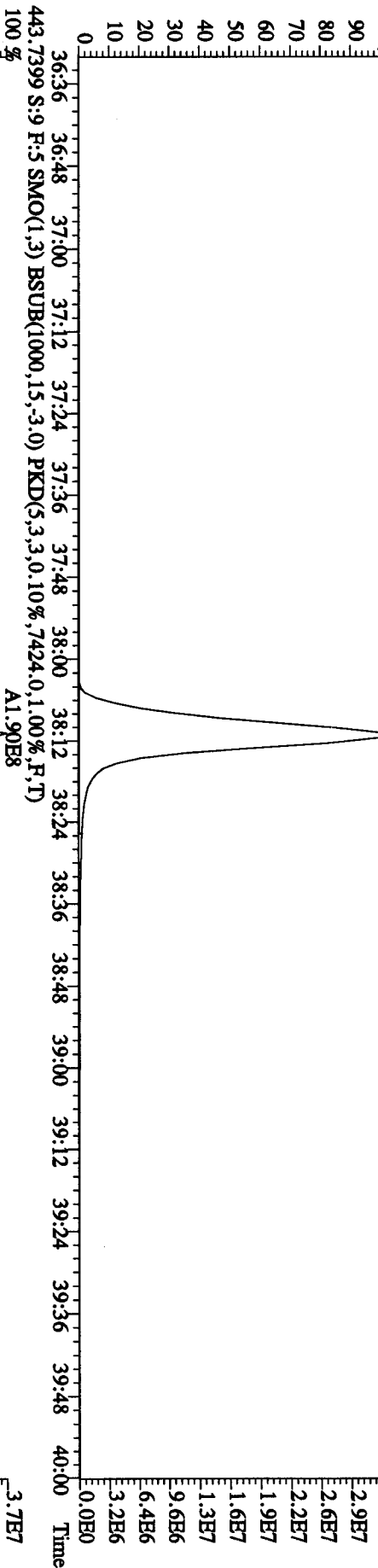
419.8220 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8280.0,1.00%,F,T)



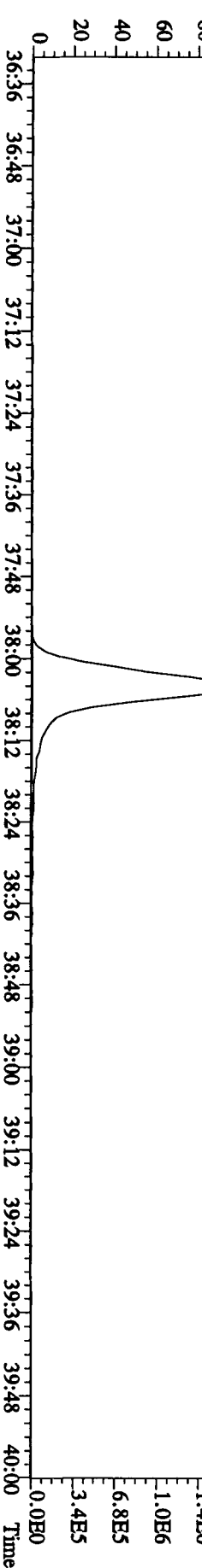
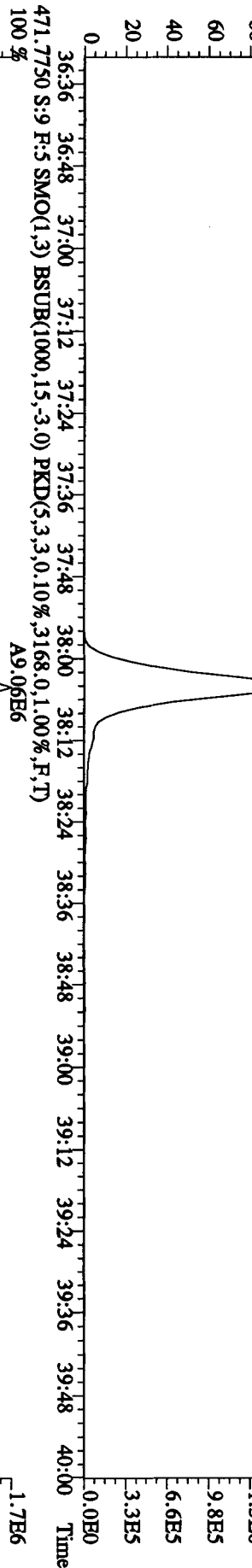
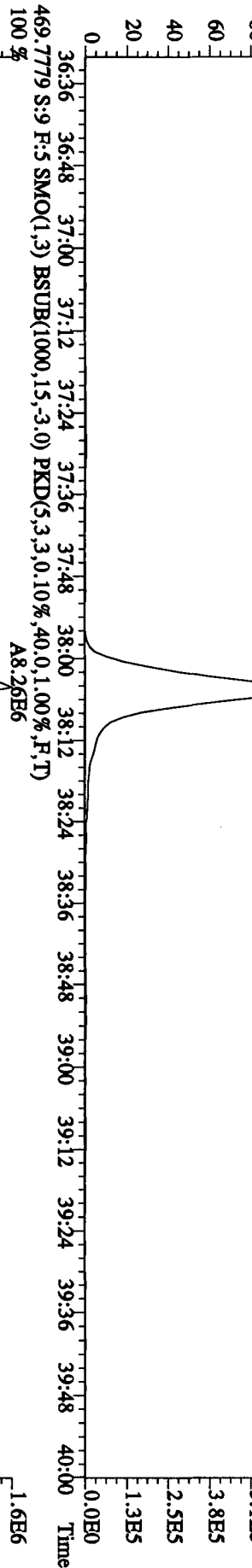
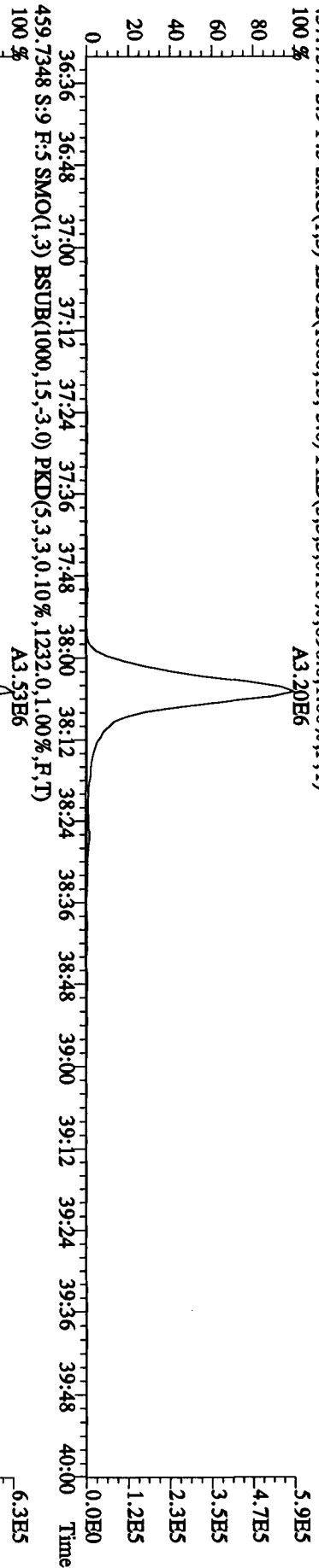
File:22DE09A4D5 #1-198 Acq:23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#9 Text:LO2K5-2-AC :G9L120491-1RX Exp:DIOXIN
 423.7766 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2756,0,1.00%,F,T)



File:22DE09A4D5 #1-281 Acq:23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#9 Text:LO2K5-2-AC :G9L120491-1RX Exp:DIOXIN
 441.7428 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4964.0,1.00%,F,T)
 100% A1.68E8



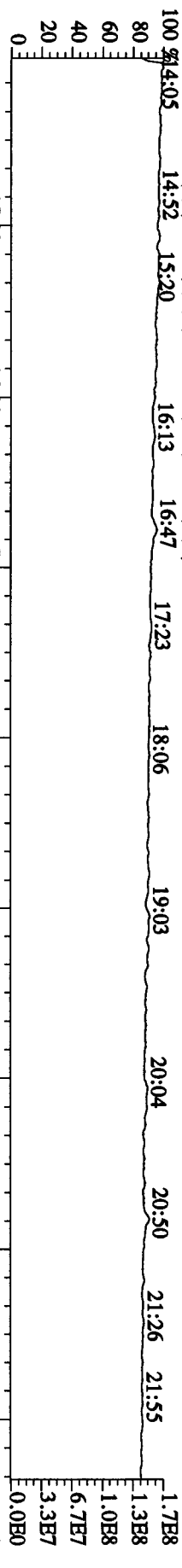
File:22DDE09A4D5 #1-281 Acq:23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text:LQ2K5-2-AC :G9L120491-1RX Exp:DIOXIN
 457.7377 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,896,0.1,00%,F,T)
 100 % A3.20E6



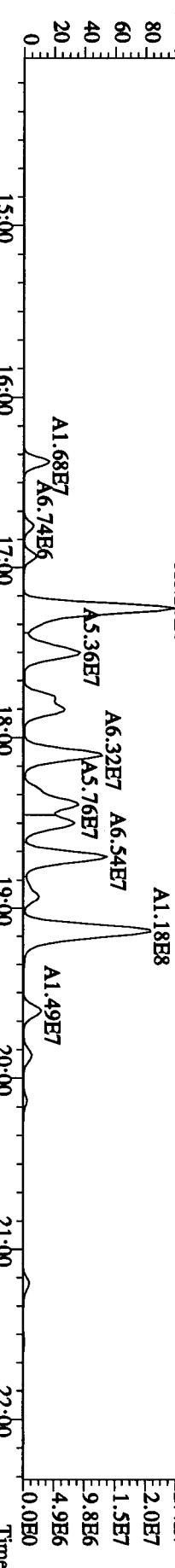
Sample#9 Text:LOZK5-2-AC :G9L120491-1RX Exp:DIOXIN

292.9825 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

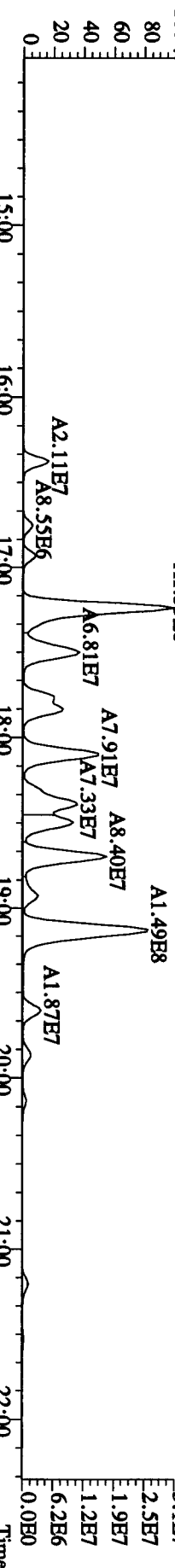
100% 14:05 14:52 15:20 16:13 16:47 17:23 18:06 19:03 20:04 20:50 21:26 21:55



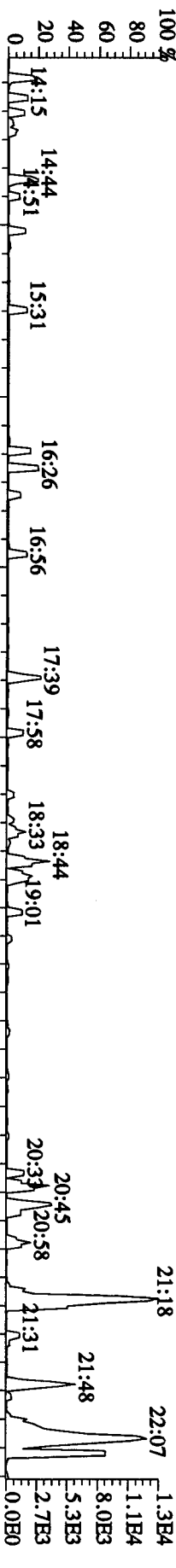
303.9016 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.5956,0.1,0.00%,F,T)



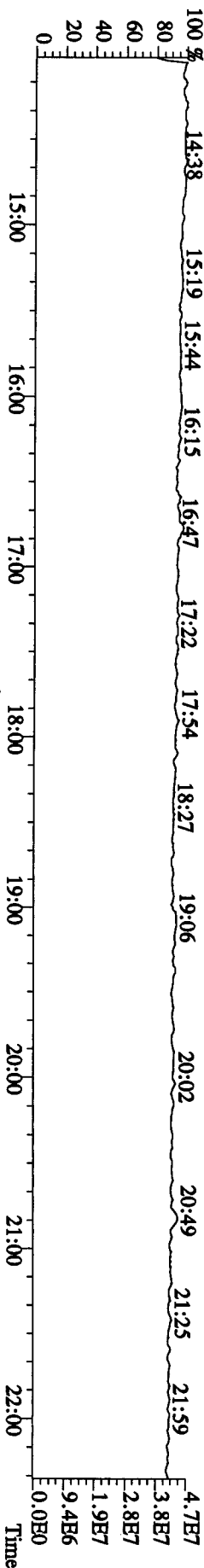
305.8987 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.7492,0.1,0.00%,F,T)

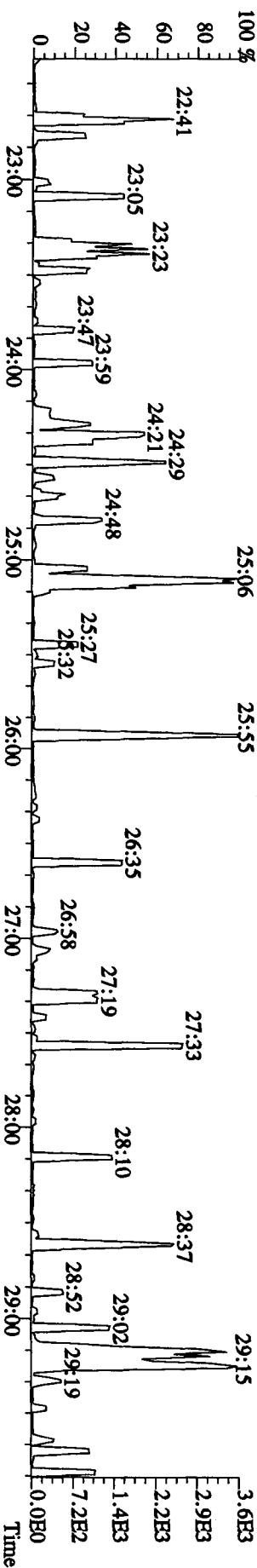
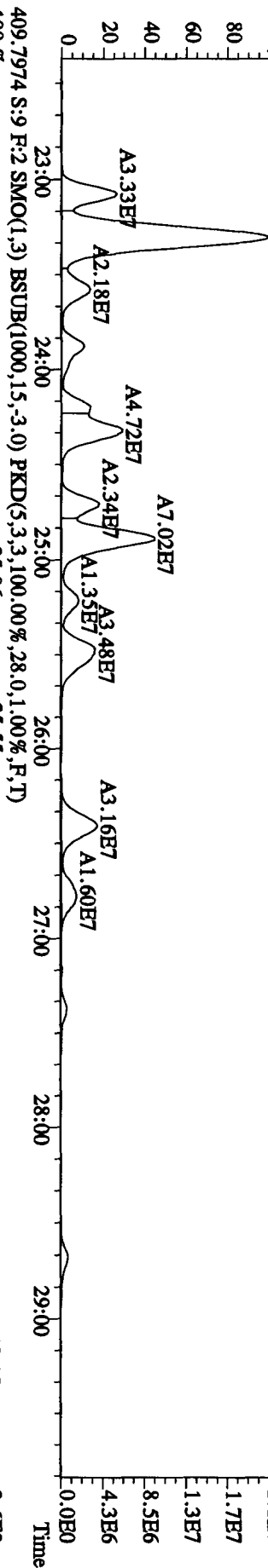
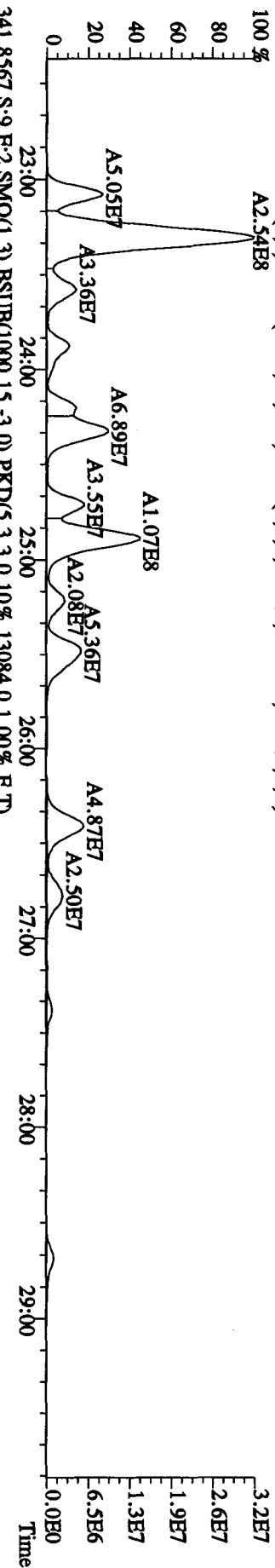
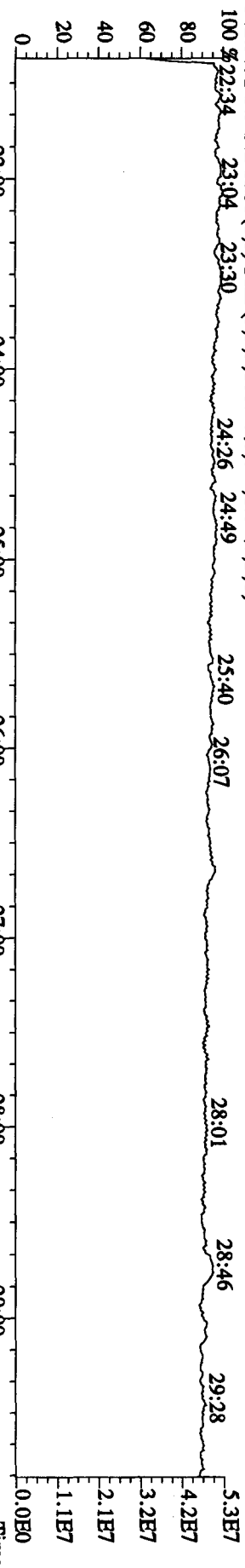


375.8364 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,56.0,1.00%,F,T)

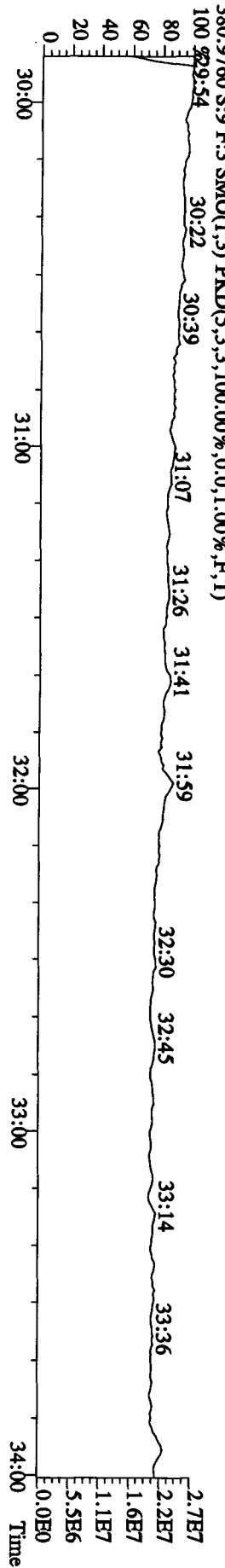
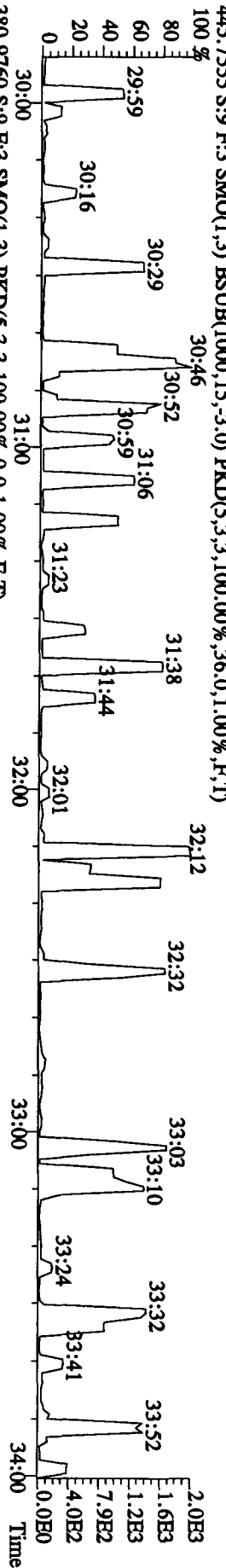
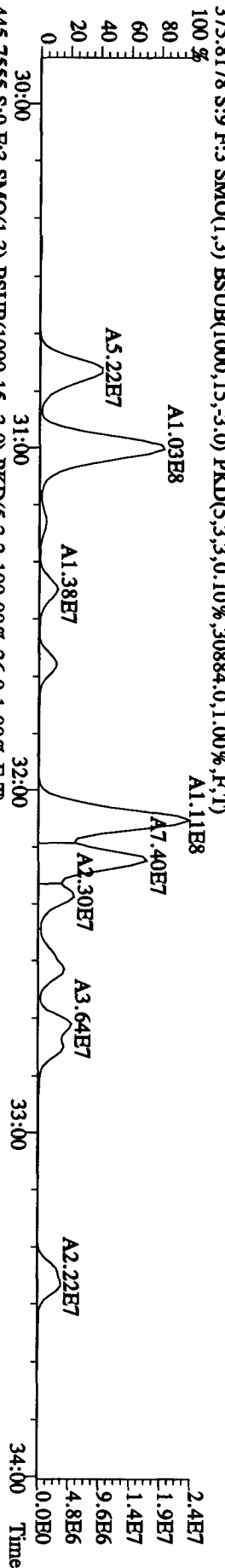
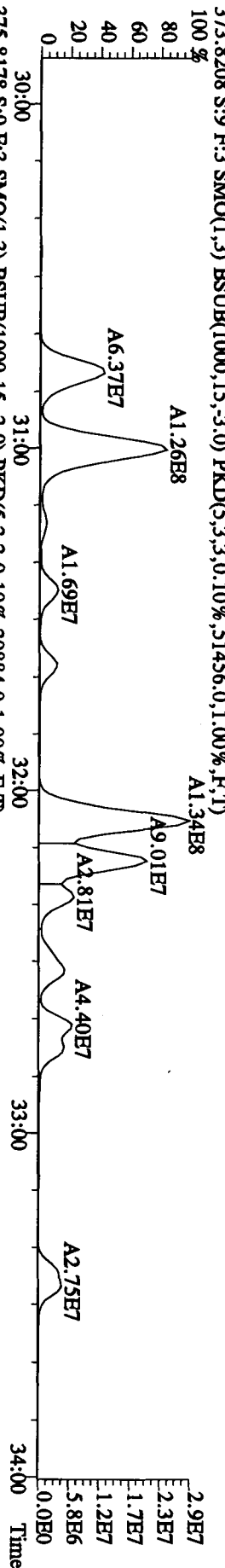
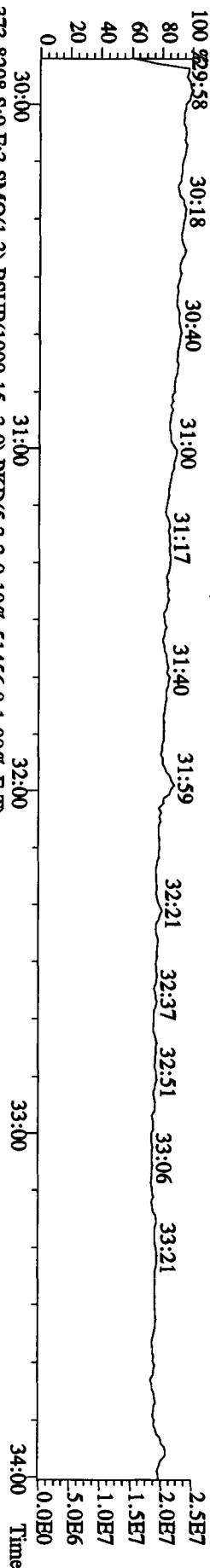


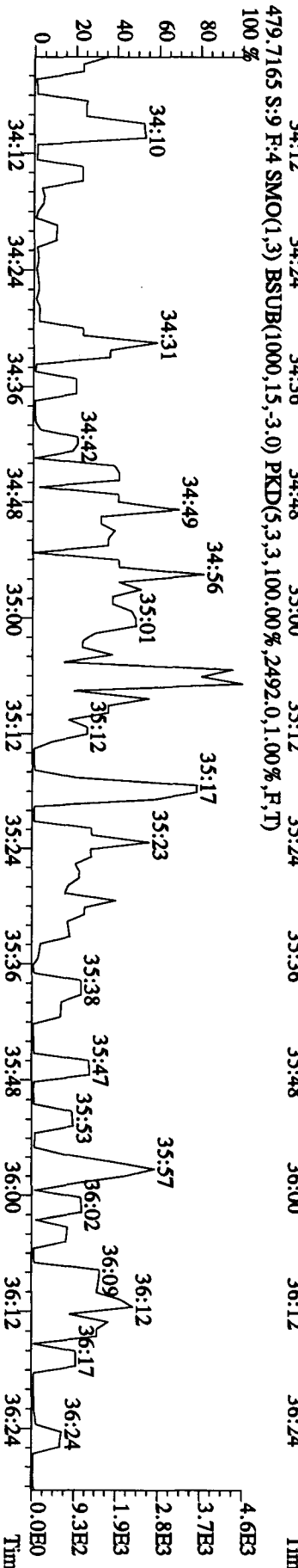
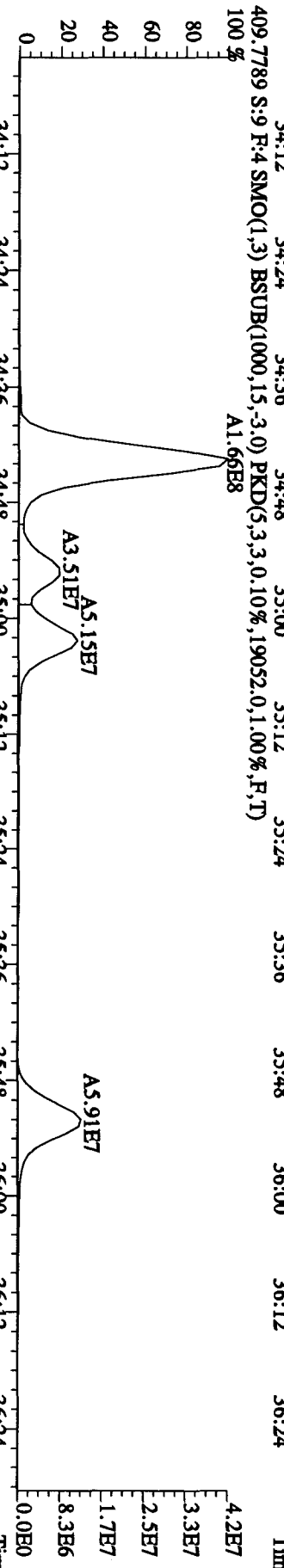
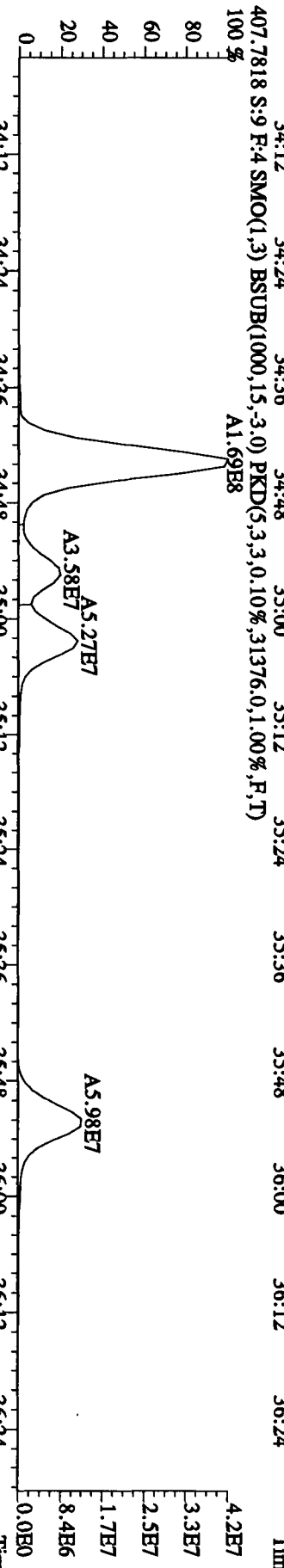
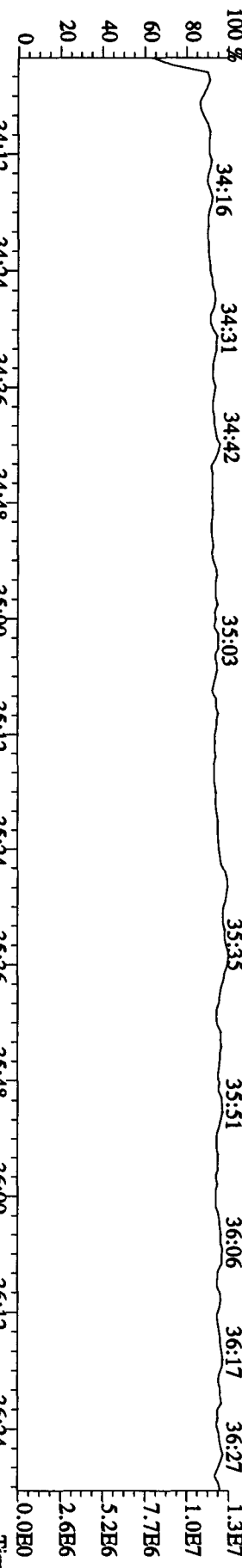
330.9792 S:9 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



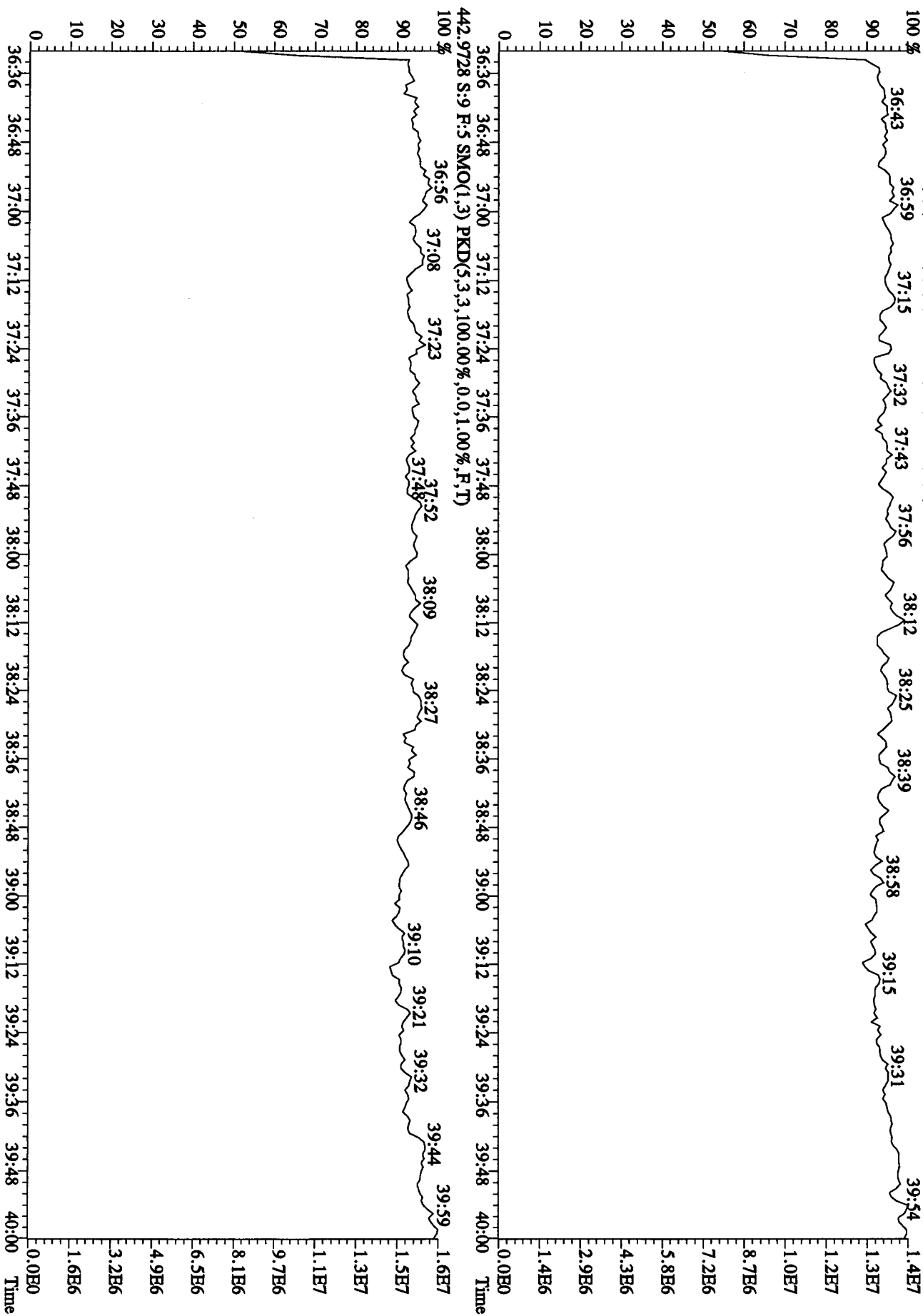


File: 22DB09A4D5 #1-314 Acq: 23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text: LQ2K5-2-AC : G9L120491-1RX Exp: DIOXIN
 392.9760 S: 9 F: 3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 29:58 30:18 30:40 31:00 31:17 31:40 31:59 32:21 32:37 32:51 33:06 33:21





File: 22DE09A4D5 #1-281 Acq: 23-DEC-2009 03:18:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text: LQ2K5-2-AC :G9L120491-1RX Exp: DIOXIN
 454.9728 S:9 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

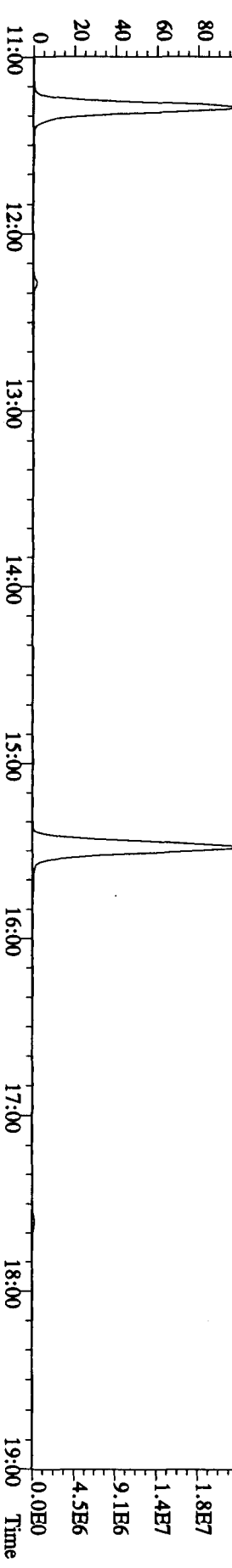
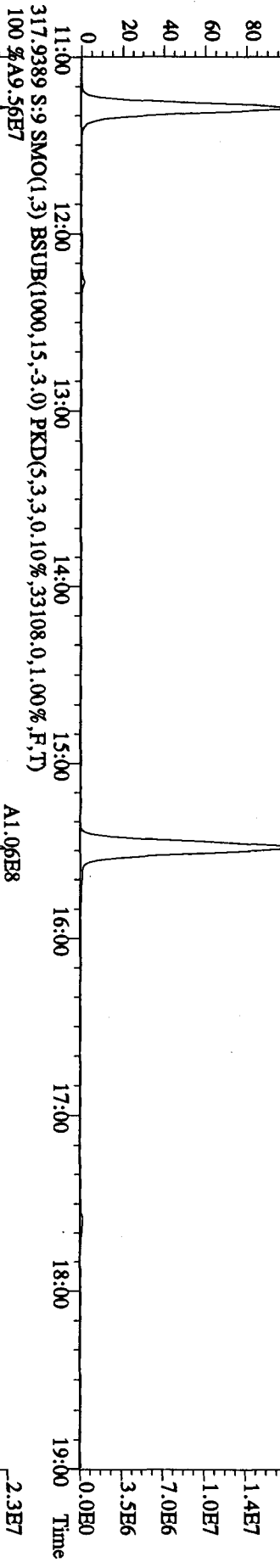
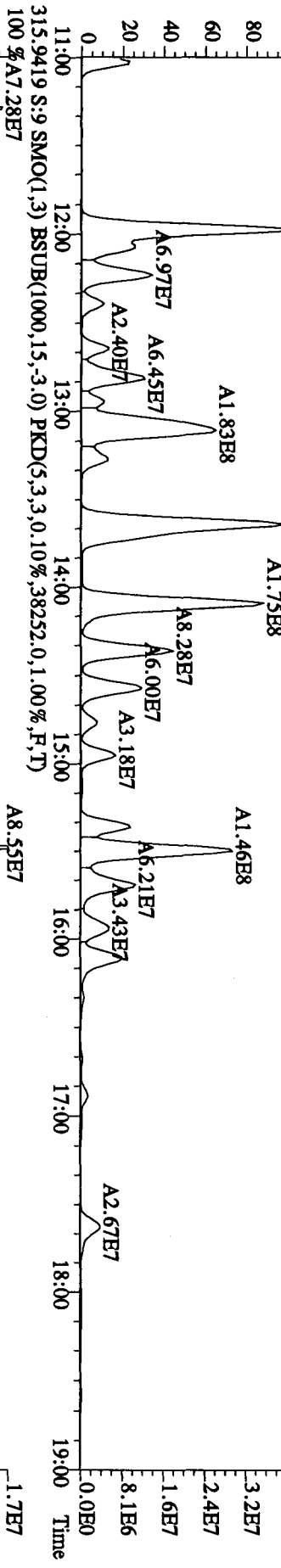
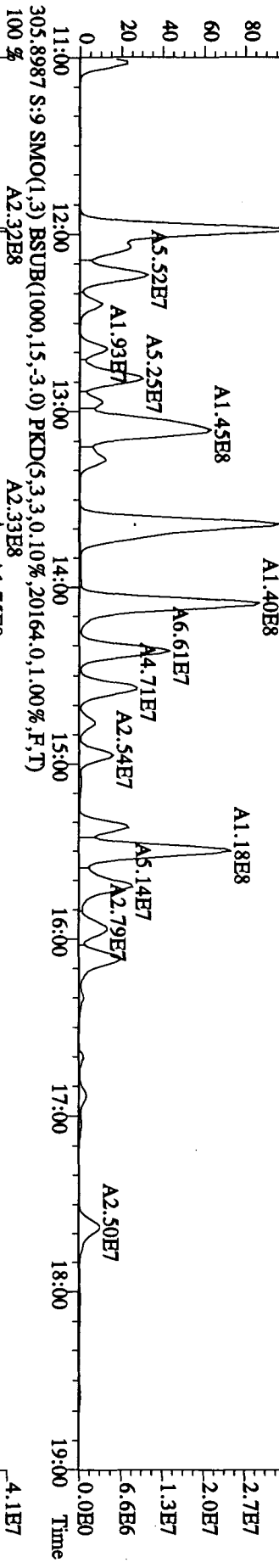


Run text: LQ2K5-2-AC Sample text: LQ2K5-2-AC :G9L120491-1RX
 Run #13 Filename: 23DE095D2 S: 9 I: 1 Results: 23DE095D2DB225
 Acquired: 23-DEC-09 13:49:52 Processed: 23-DEC-09 14:25:14
 Run: 23DE095D2 Analyte: DB225HRS Cal: DB2251021095D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.02007g

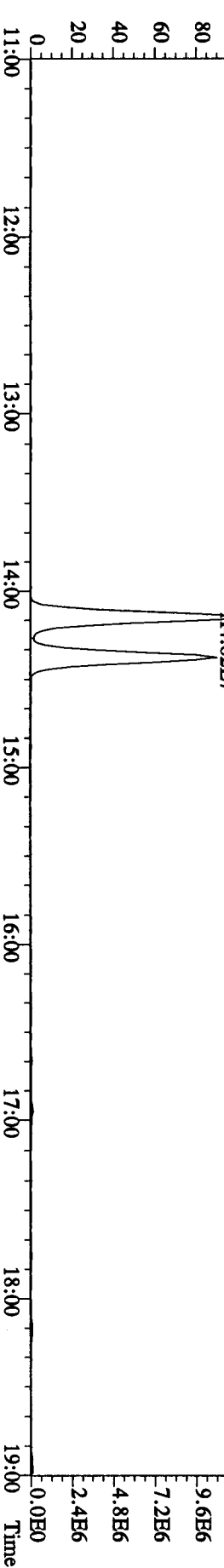
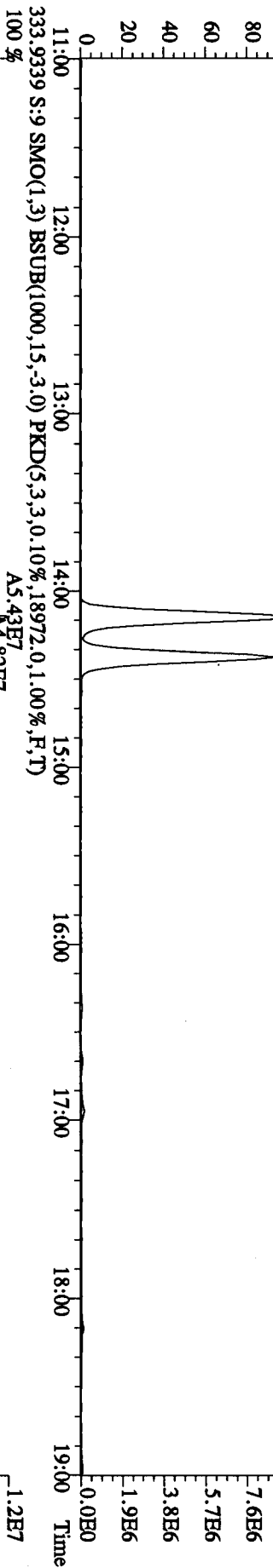
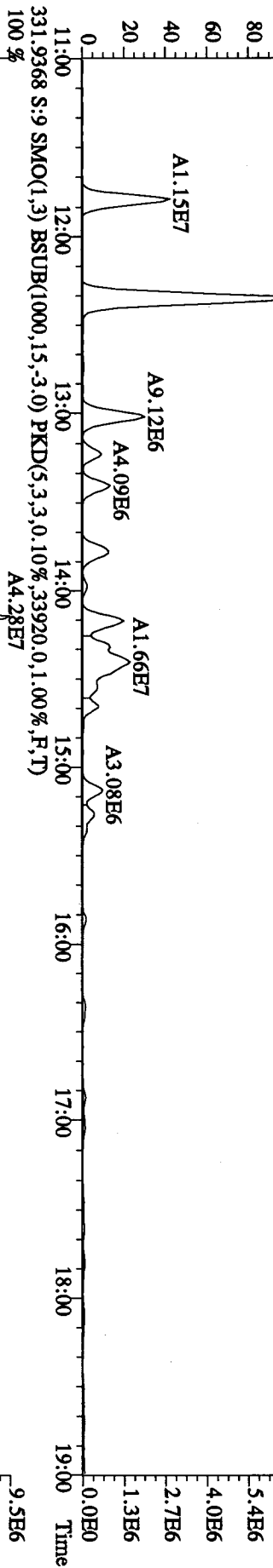
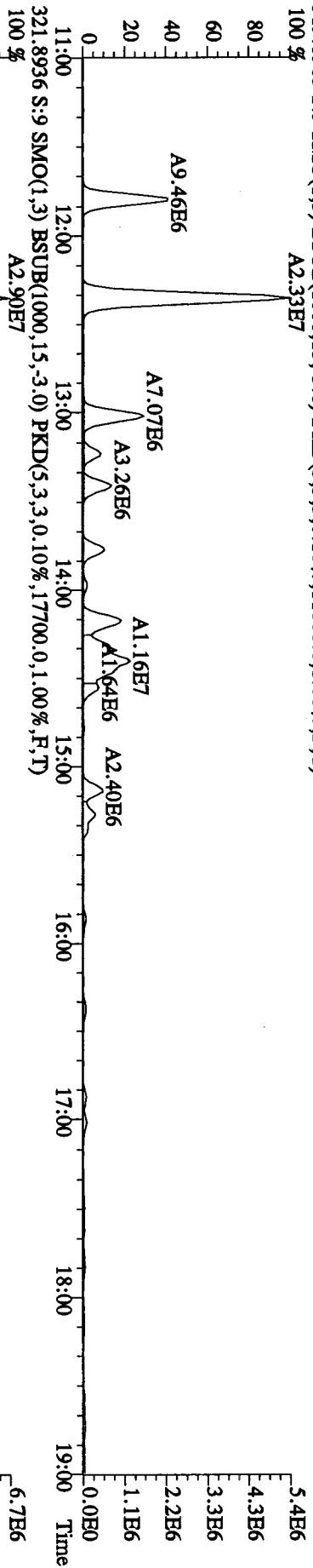
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	86720500	0.80 y	14:23	-	5.69	-	-	n
13C-2,3,7,8-TCDF	191586000	0.81 y	15:29	1.98	111.61	0.55	55.9	n
2,3,7,8-TCDF	263223000	0.81 y	15:30	1.18	232.44	0.40	-	n
13C-2,3,7,8-TCDD	97112200	0.79 y	14:09	0.97	115.11	0.83	57.7	n
2,3,7,8-TCDD	12123400	0.78 y	14:10	1.51	16.54	0.55	-	n
37C1-2,3,7,8-TCDD	156563400	1.00 y	14:09	2.70	66.62	0.20	83.4	n

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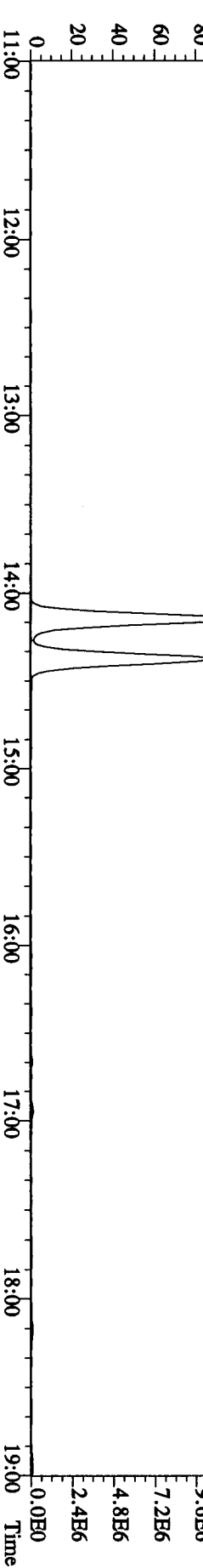
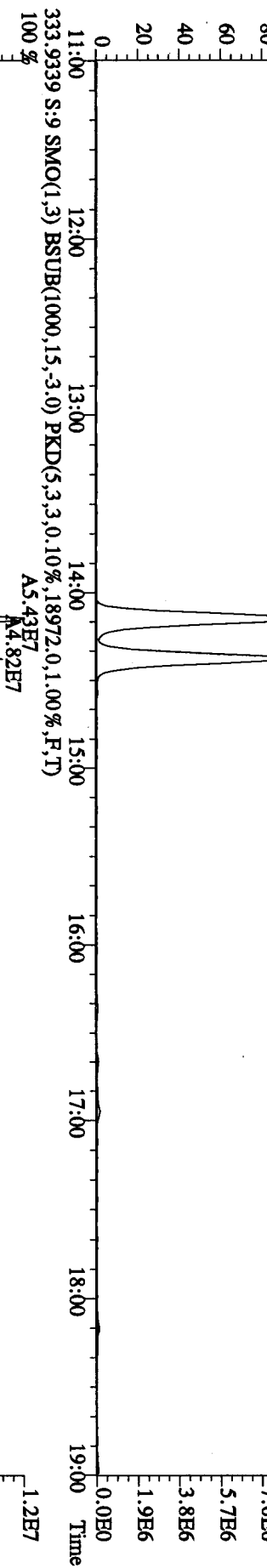
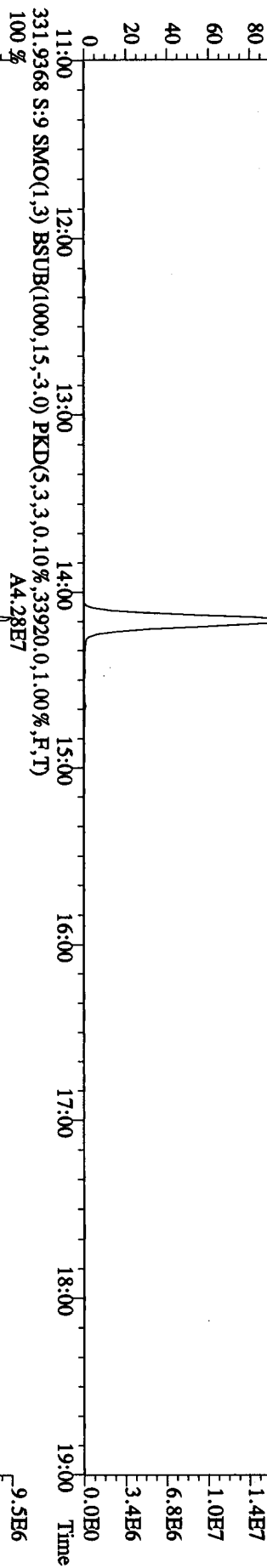
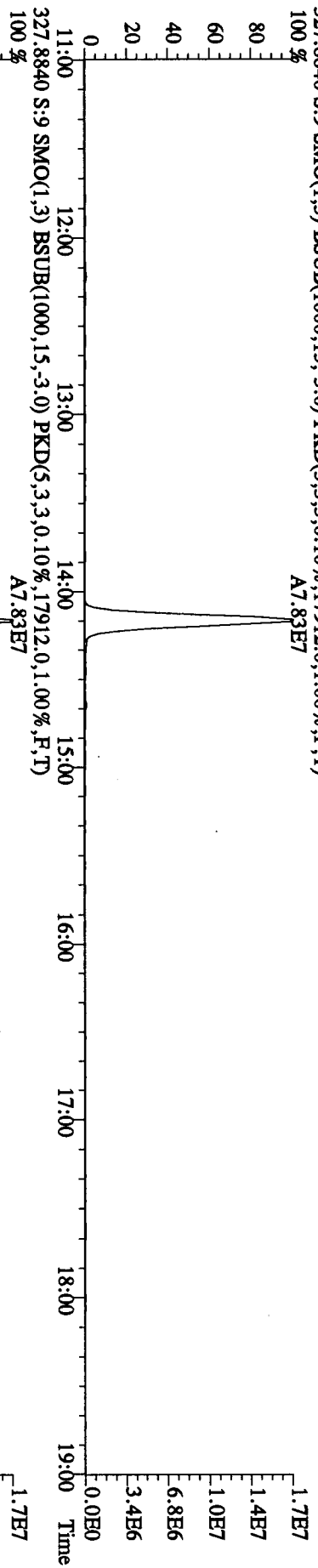
File: 23DBE095D2 #1-1241 Acq: 23-DEC-2009 13:49:52 GC EI+ Voltage SIR 70SE
 Sample#9 Text: LQ2K5-2-AC : G9L120491-1RX Exp: DB225
 303.9016 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11072.0,1.00%,F,T)
 100% A1.86E8 A1.86E8 A1.86E8



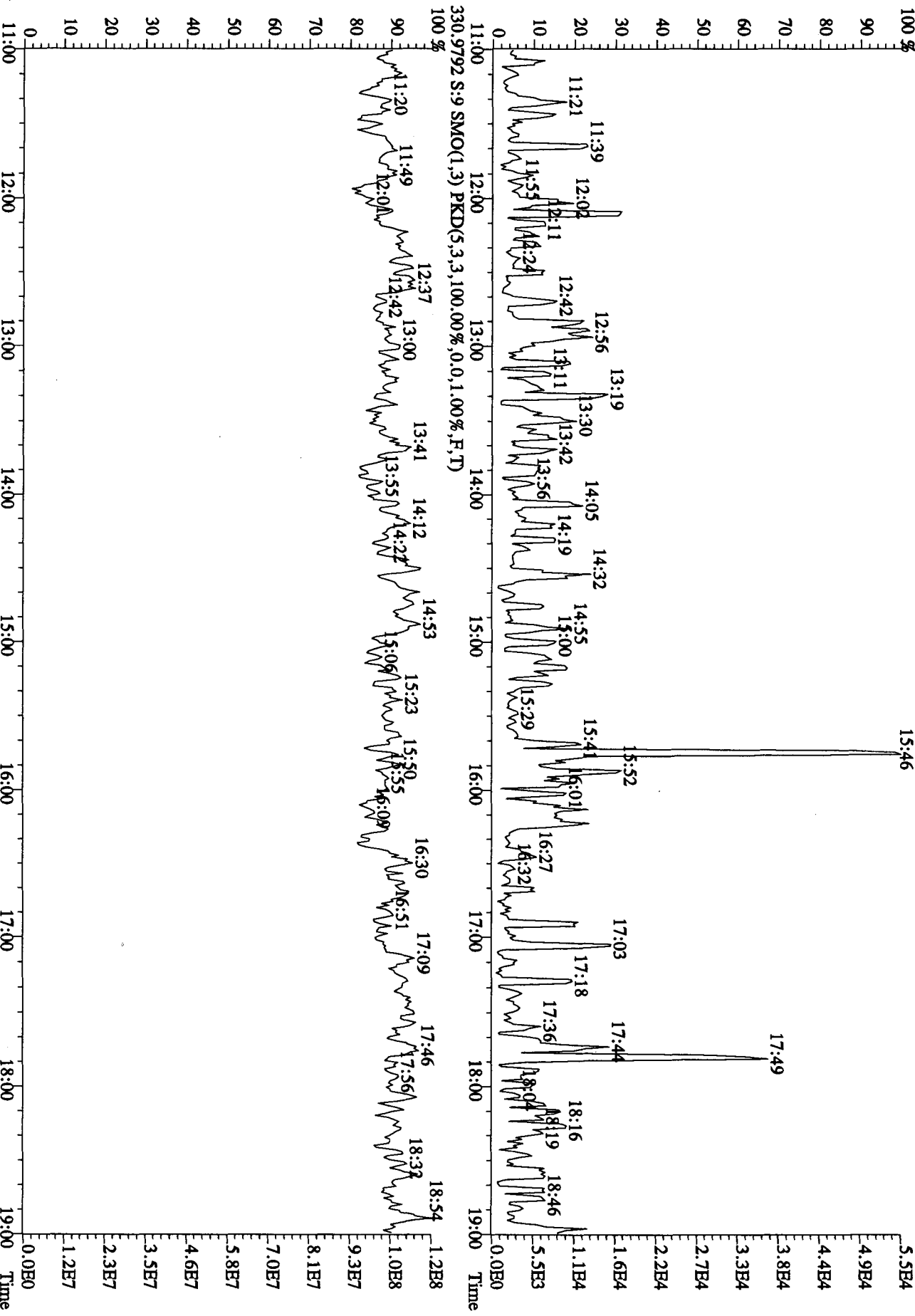
File:23DE095D2 #1-1241 Acq:23-DEC-2009 13:49:52 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LO2K5-2-AC :G9L120491-1RX Exp:DB225
 319.8965 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11800,0,1,00%,F,T)
 100 % A2.33E7



File:23DE095D2 #1-1241 Acq:23-DEC-2009 13:49:52 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LQ2K5-2-AC :G9L120491-1RX Exp:DB225
 327.8840 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,17912.0,1.00%,F,T)
 100 % A7.83E7



File:23DB095D2 #1-1241 Acq:23-DEC-2009 13:49:52 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LQ2K5-2-AC :G9L120491-1RX Exp:DB225
 375.8364 S:9 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LQ2K7-2-AC Sample text: LQ2K7-2-AC :G9L120491-2RX
 Run #14 Filename: 22DE09A4D5 S: 10 I: 1 Results: 22de09a4d582900S
 Acquired: 23-DEC-09 04:02:27 Processed: 23-DEC-09 04:43:10
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 10.04 g

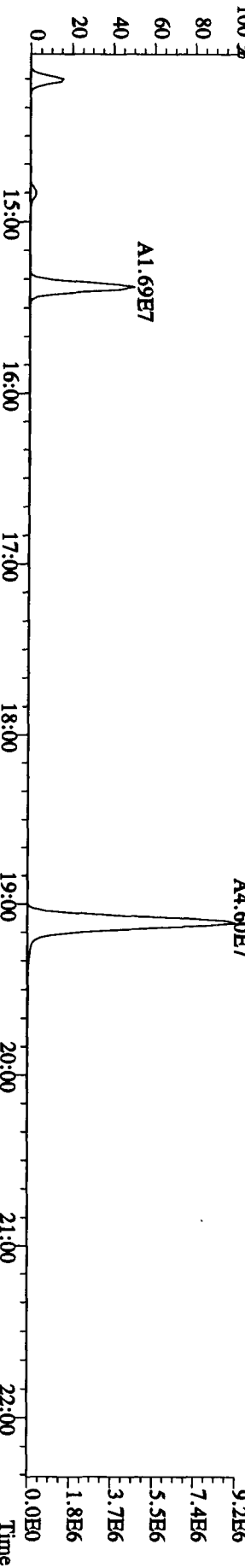
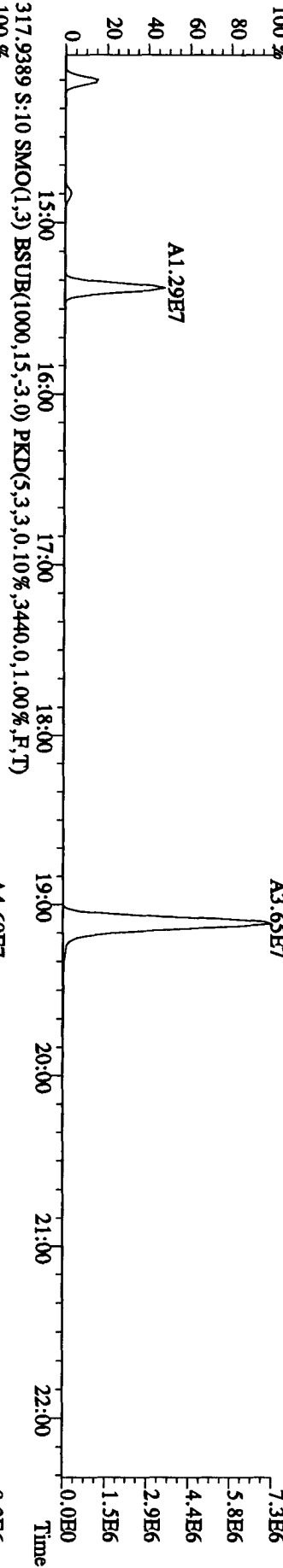
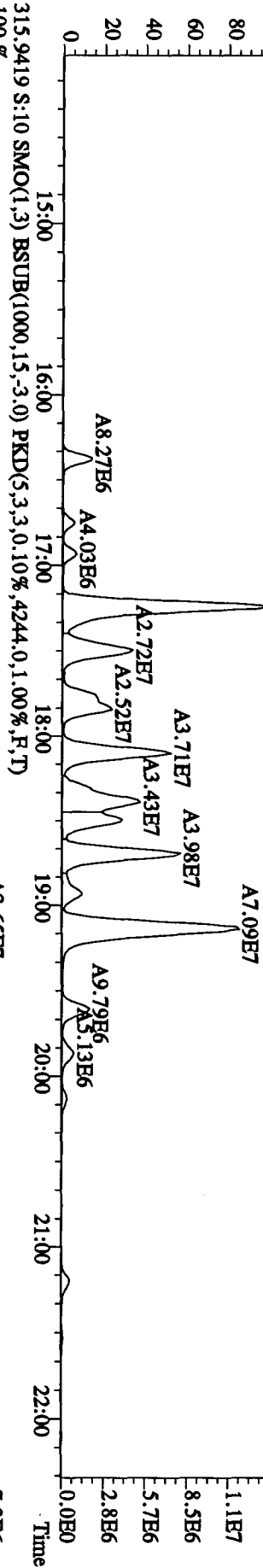
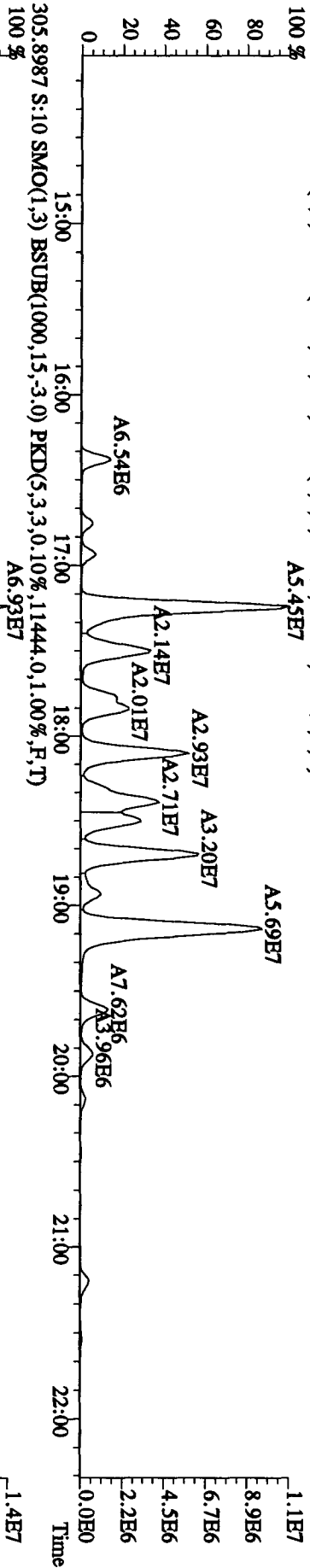
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Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	36663700	0.80 y	19:41	-	2.040	-	-	n
13C-2,3,7,8-TCDF	82506100	0.79 y	19:07	1.46	153.653	0.217	77.1	n
2,3,7,8-TCDF	127799900	0.80 y	19:09	1.27	242.340	0.581	-	n
Total TCDF	664653751	0.79 y	16:23	1.27	1260.344	0.581	-	n
13C-2,3,7,8-TCDD	47395800	0.81 y	19:54	0.92	139.510	0.277	70.0	n
2,3,7,8-TCDD	1324377	0.78 y	19:56	1.23	4.537	0.231	-	n
Total TCDD	34132963	0.83 y	17:23	1.23	116.927	0.231	-	n
37Cl-2,3,7,8-TCDD	56481400	1.00 y	19:55	2.52	60.998	0.096	76.6	n
13C-1,2,3,7,8-PeCDF	54131400	1.58 y	24:52	1.27	116.080	0.318	58.3	n
1,2,3,7,8-PeCDF	89053800	1.51 y	24:53	1.30	251.762	1.426	-	n
2,3,4,7,8-PeCDF	39405300	1.50 y	26:25	1.25	116.021	1.485	-	n
Total F2 PeCDF	616377776	1.52 y	23:04	1.28	1775.185	1.455	-	n
Total F1 PeCDF	23935192	0.25 n	16:46	1.28	69.041	0.419	-	n
13C-1,2,3,7,8-PeCDD	30589300	1.65 y	27:13	0.77	107.586	0.103	54.0	n
1,2,3,7,8-PeCDD	3040070	1.56 y	27:15	1.24	15.947	0.369	-	n
Total PeCDD	28917120	1.55 y	23:32	1.24	151.691	0.369	-	n
13C-1,2,3,7,8,9-HxCDD	23142200	1.29 y	33:13	-	1.303	-	-	n
13C-1,2,3,4,7,8-HxCDF	39117700	0.51 y	32:04	1.19	141.803	0.690	71.2	n
1,2,3,4,7,8-HxCDF	116202200	1.23 y	32:05	1.31	452.648	1.992	-	y
1,2,3,6,7,8-HxCDF	87553200	1.23 y	32:12	1.41	315.704	1.844	-	y
2,3,4,6,7,8-HxCDF	16961820	1.27 y	32:45	1.33	64.745	1.952	-	y
1,2,3,7,8,9-HxCDF	13820320	1.25 y	33:26	1.20	58.870	2.179	-	y
Total HxCDF	510170407	1.23 y	30:47	1.31	1961.574	1.985	-	y
13C-1,2,3,6,7,8-HxCDD	23012500	1.09 y	32:57	0.75	132.637	0.879	66.6	n
1,2,3,4,7,8-HxCDD	1432156	1.17 y	32:53	1.24	9.979	0.236	-	y
1,2,3,6,7,8-HxCDD	3630420	1.25 y	32:58	1.48	21.241	0.198	-	y
1,2,3,7,8,9-HxCDD	3776610	1.29 y	33:13	1.47	22.199	0.199	-	y
Total HxCDD	24165423	1.31 y	31:33	1.40	148.309	0.209	-	y
13C-1,2,3,4,6,7,8-HpCDF	26456800	0.44 y	34:43	0.91	124.658	1.071	62.6	n
1,2,3,4,6,7,8-HpCDF	208476000	1.03 y	34:44	1.59	984.193	2.275	-	n
1,2,3,4,7,8,9-HpCDF	67147100	1.03 y	35:53	1.33	379.743	2.726	-	n
Total HpCDF	383064700	1.03 y	34:44	1.46	1916.837	2.480	-	n
13C-1,2,3,4,6,7,8-HpCDD	19761300	1.04 y	35:32	0.71	119.150	0.777	59.8	n
1,2,3,4,6,7,8-HpCDD	9296670	1.05 y	35:33	1.31	71.683	0.624	-	n
Total HpCDD	13789796	0.91 y	34:39	1.31	106.327	0.624	-	n
13C-OCDD	22730500	0.87 y	38:04	0.61	161.462	0.372	40.5	n

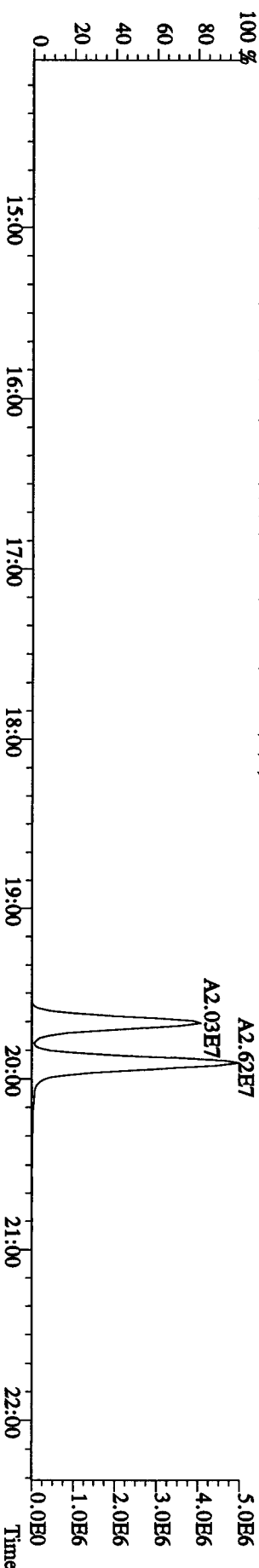
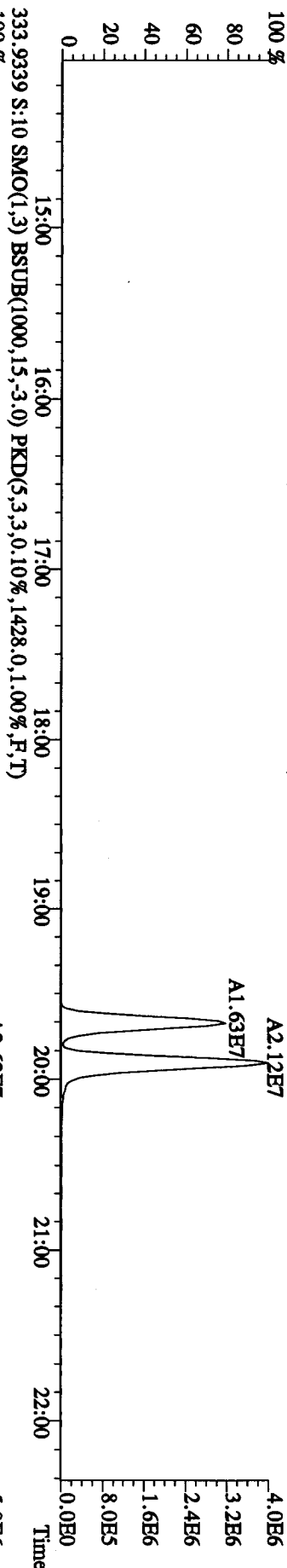
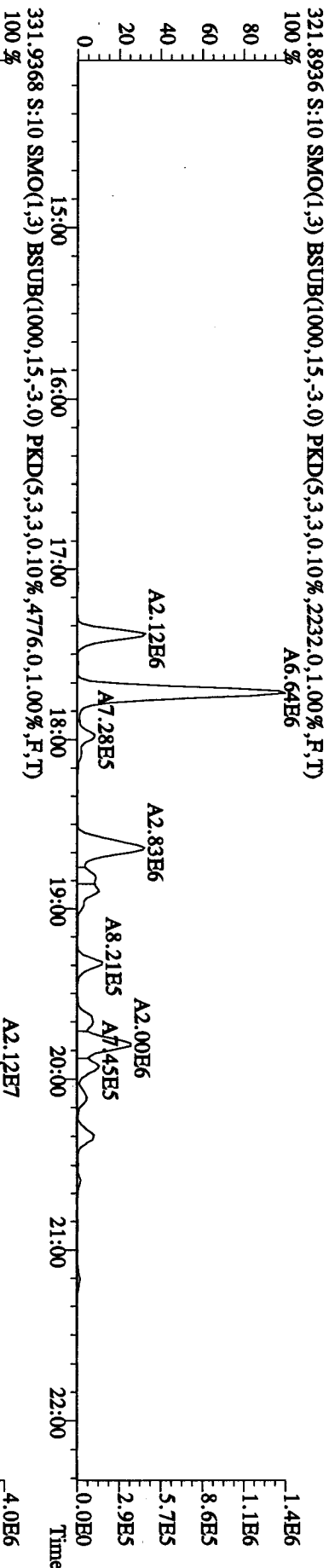
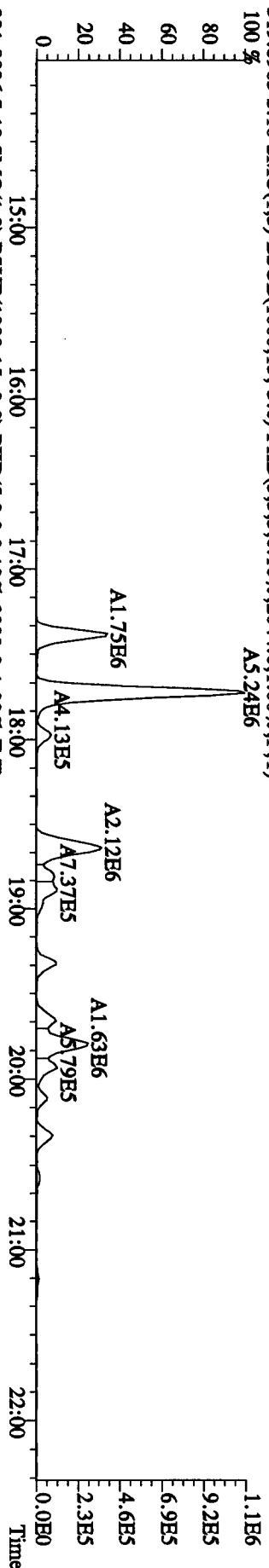
OCDF	240211000	0.89	y	38:11	1.51	2789.700 /	1.551	-	n
OCDD	4944230	0.96	y	38:05	1.19	72.605 /	0.533	-	n

Run text: LQ2K7-2-AC Sample text: LQ2K7-2-AC :G9L120491-2RX
 Run #14 Filename: 22DE09A4D5 S: 10 I: 1 Results: 22DE09A4D58290
 Acquired: 23-DEC-09 04:02:27 Processed: 23-DEC-09 04:43:10
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.04007g

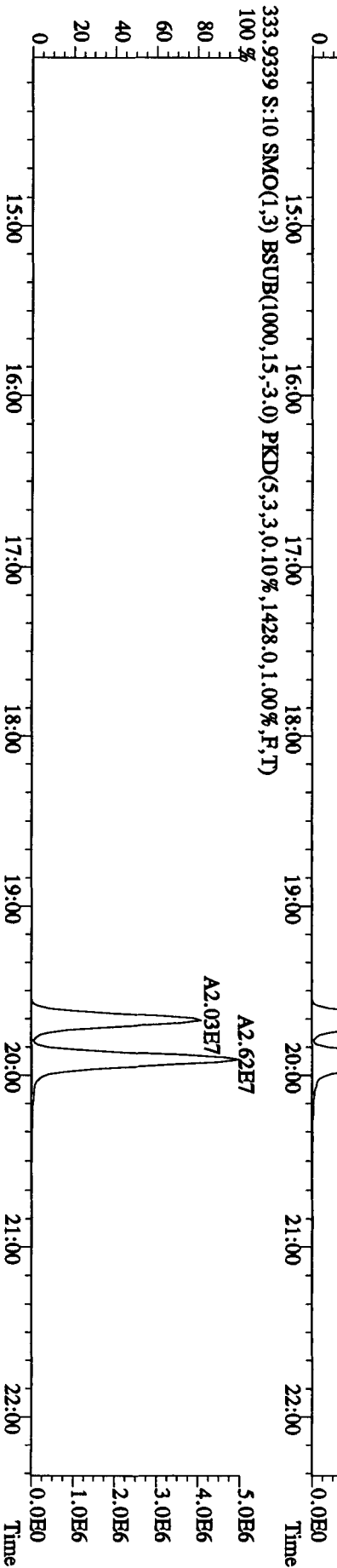
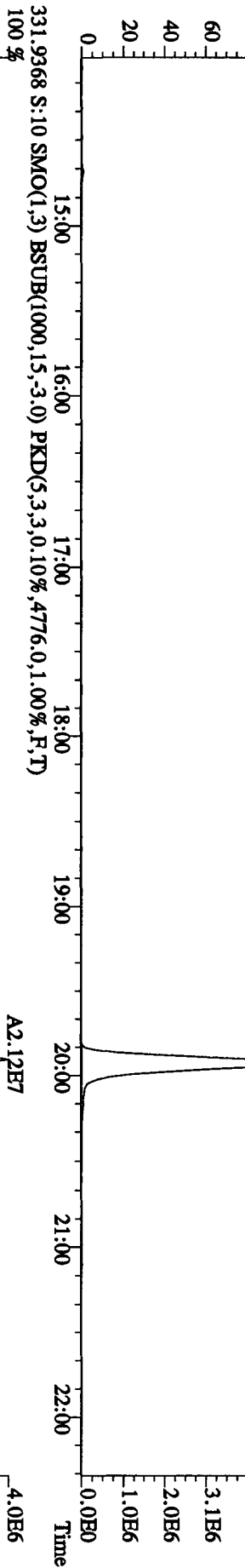
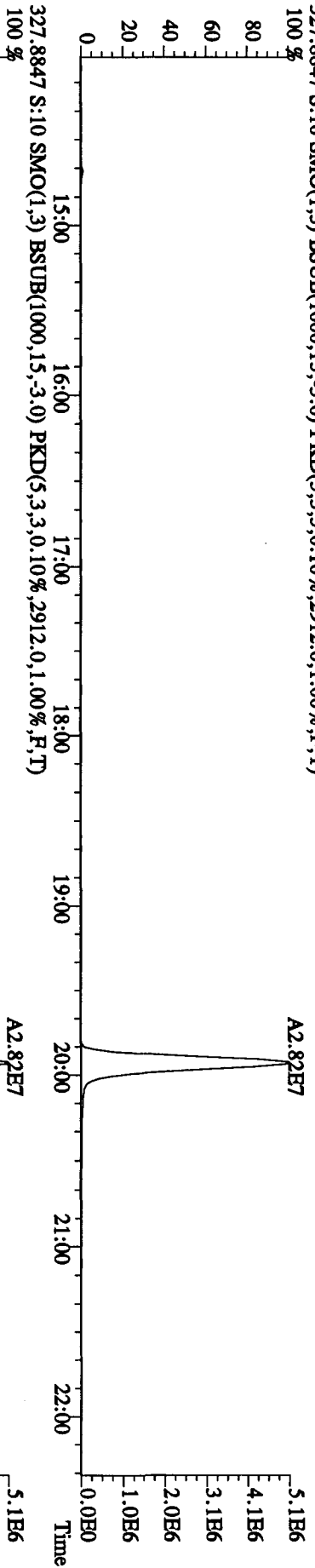
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	36663700	0.80 y	19:41	-	2.04	-	-	n
13C-2,3,7,8-TCDF	82506100	0.79 y	19:07	1.46	153.65	0.22	77.1	n
2,3,7,8-TCDF	127799900	0.80 y	19:09	1.27	242.34	0.58	-	n
Total TCDF	664653751	0.79 y	16:23	1.27	1260.34	0.58	-	n
13C-2,3,7,8-TCDD	47395800	0.81 y	19:54	0.92	139.51	0.28	70.0	n
2,3,7,8-TCDD	1324377	0.78 y	19:56	1.23	4.54	0.23	-	n
Total TCDD	34132963	0.83 y	17:23	1.23	116.93	0.23	-	n
37Cl-2,3,7,8-TCDD	56481400	1.00 y	19:55	2.52	61.00	0.10	76.6	n
13C-1,2,3,7,8-PeCDF	54131400	1.58 y	24:52	1.27	116.08	0.32	58.3	n
1,2,3,7,8-PeCDF	89053800	1.51 y	24:53	1.30	251.76	1.43	-	n
2,3,4,7,8-PeCDF	39405300	1.50 y	26:25	1.25	116.02	1.49	-	n
Total F2 PeCDF	616377776	1.52 y	23:04	1.28	1775.19	1.46	-	n
Total F1 PeCDF	23935192	0.25 n	16:46	1.28	69.04	0.42	-	n
13C-1,2,3,7,8-PeCDD	30589300	1.65 y	27:13	0.77	107.59	0.10	54.0	n
1,2,3,7,8-PeCDD	3040070	1.56 y	27:15	1.24	15.95	0.37	-	n
Total PeCDD	28917120	1.55 y	23:32	1.24	151.69	0.37	-	n
13C-1,2,3,7,8,9-HxCDD	23142200	1.29 y	33:13	-	1.30	-	-	n
13C-1,2,3,4,7,8-HxCDF	39117700	0.51 y	32:04	1.19	141.80	0.69	71.2	n
1,2,3,4,7,8-HxCDF	128173900	1.22 y	32:05	1.31	499.28	1.99	-	n
1,2,3,6,7,8-HxCDF	87618800	1.23 y	32:12	1.41	315.94	1.84	-	n
2,3,4,6,7,8-HxCDF	42178200	1.23 y	32:42	1.33	161.00	1.95	-	n
1,2,3,7,8,9-HxCDF	25449700	1.21 y	33:27	1.20	108.41	2.18	-	n
Total HxCDF	559053357	1.23 y	30:47	1.31	2154.24	1.98	-	n
13C-1,2,3,6,7,8-HxCDD	23012500	1.09 y	32:57	0.75	132.64	0.88	66.6	n
1,2,3,4,7,8-HxCDD	5014000	1.24 y	32:58	1.24	34.94	0.24	-	n
1,2,3,6,7,8-HxCDD	5014000	1.24 y	32:58	1.48	29.34	0.20	-	n
1,2,3,7,8,9-HxCDD	3707760	1.32 y	33:13	1.47	21.79	0.20	-	n
Total HxCDD	24047995	1.31 y	31:33	1.40	146.02	0.21	-	n
13C-1,2,3,4,6,7,8-HpCDF	26456800	0.44 y	34:43	0.91	124.66	1.07	62.6	n
1,2,3,4,6,7,8-HpCDF	208476000	1.03 y	34:44	1.59	984.19	2.28	-	n
1,2,3,4,7,8,9-HpCDF	67147100	1.03 y	35:53	1.33	379.74	2.73	-	n
Total HpCDF	383064700	1.03 y	34:44	1.46	1916.84	2.48	-	n
13C-1,2,3,4,6,7,8-HpCDD	19761300	1.04 y	35:32	0.71	119.15	0.78	59.8	n
1,2,3,4,6,7,8-HpCDD	9296670	1.05 y	35:33	1.31	71.68	0.62	-	n
Total HpCDD	13789796	0.91 y	34:39	1.31	106.33	0.62	-	n
13C-OCDD	22730500	0.87 y	38:04	0.61	161.46	0.37	40.5	n
OCDF	240211000	0.89 y	38:11	1.51	2789.70	1.55	-	n
OCDD	4944230	0.96 y	38:05	1.19	72.61	0.53	-	n



Sample#10 Text:LOZK7-2-AC :G9L120491-2RX
319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2044,0.1,00%,F,T)



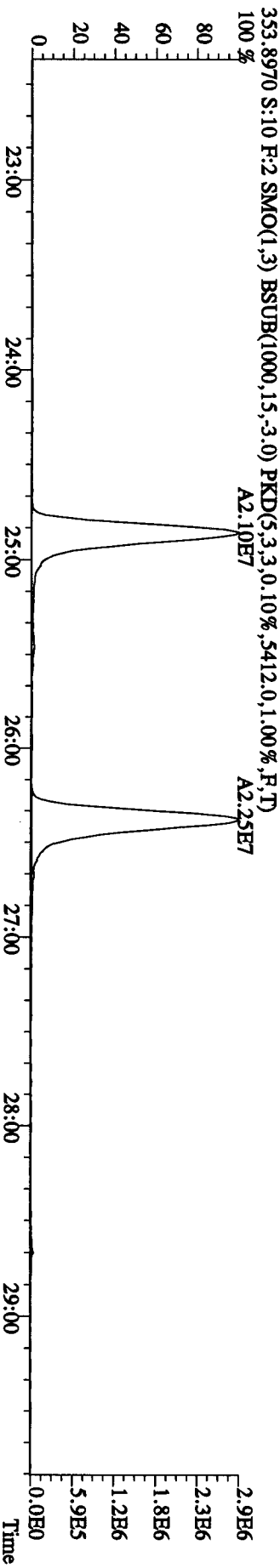
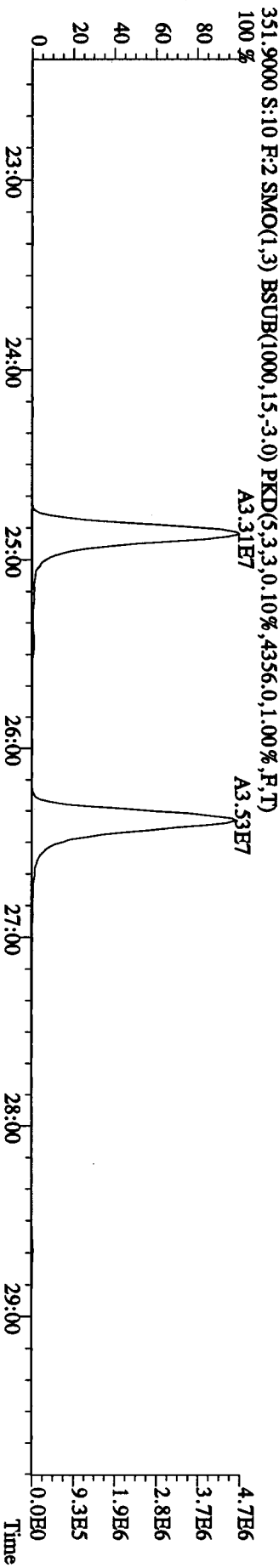
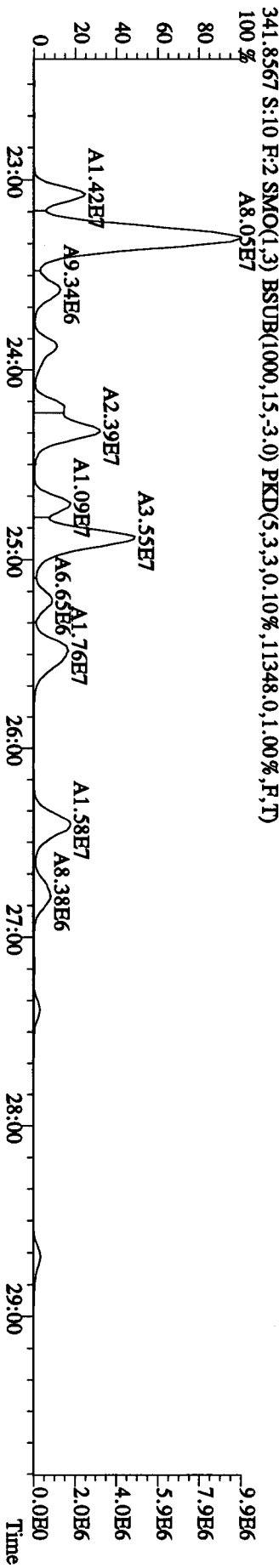
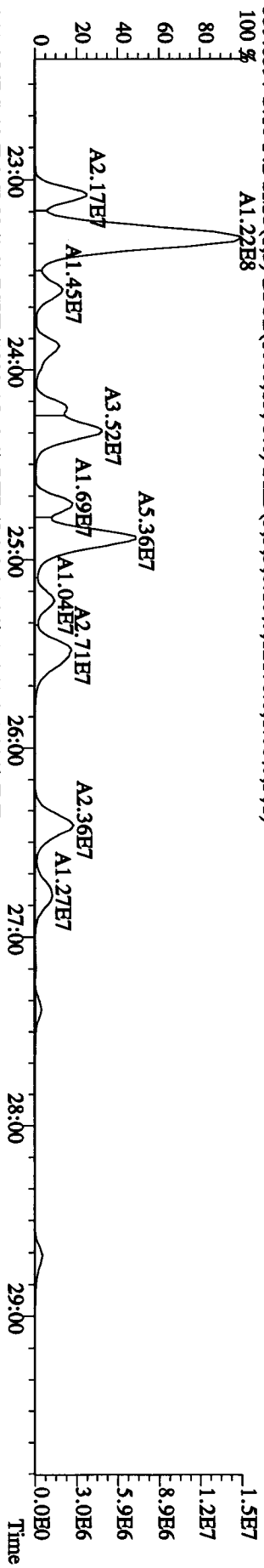
File:22DIE09A4D5 #1-578 Acq:23-DEC-2009 04:02:27 GC EI + Voltage SIR Autospec-UltimaE
 Sample#10 Text:LQ2K7-2-AC :G9L120491-2RX Exp:DIOXIN
 327.8847 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2912,0.1,0.00%,F,T)



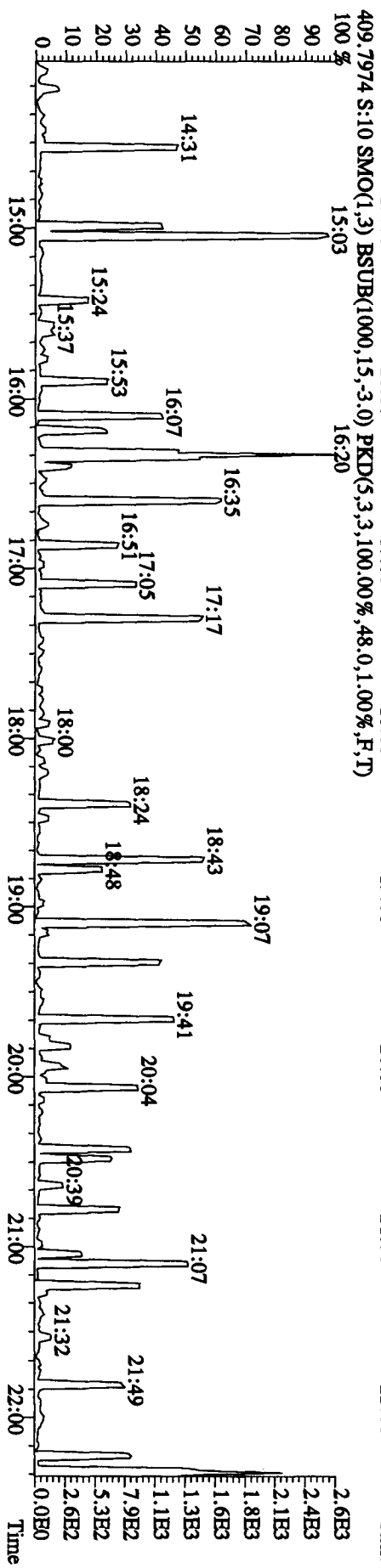
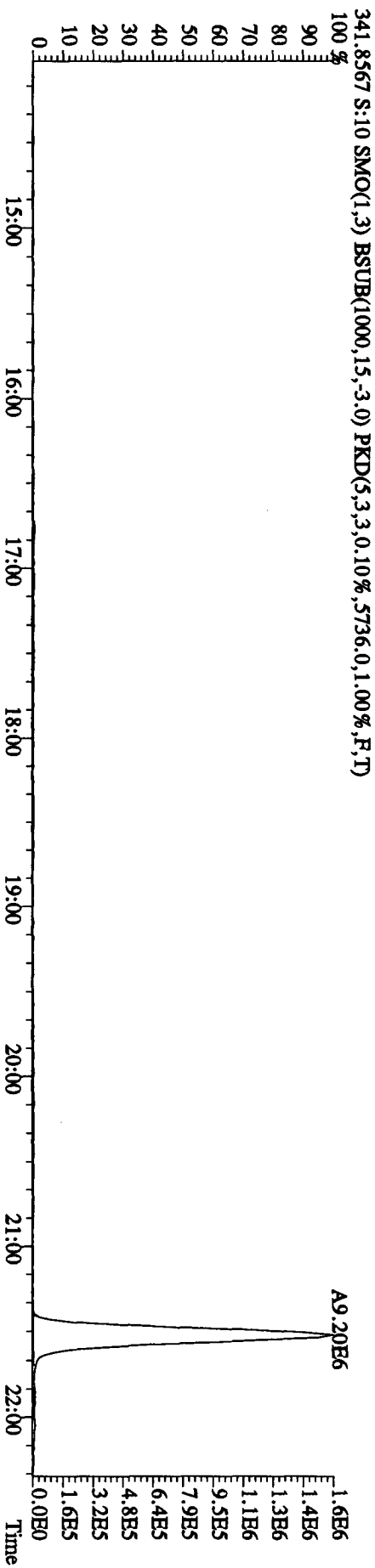
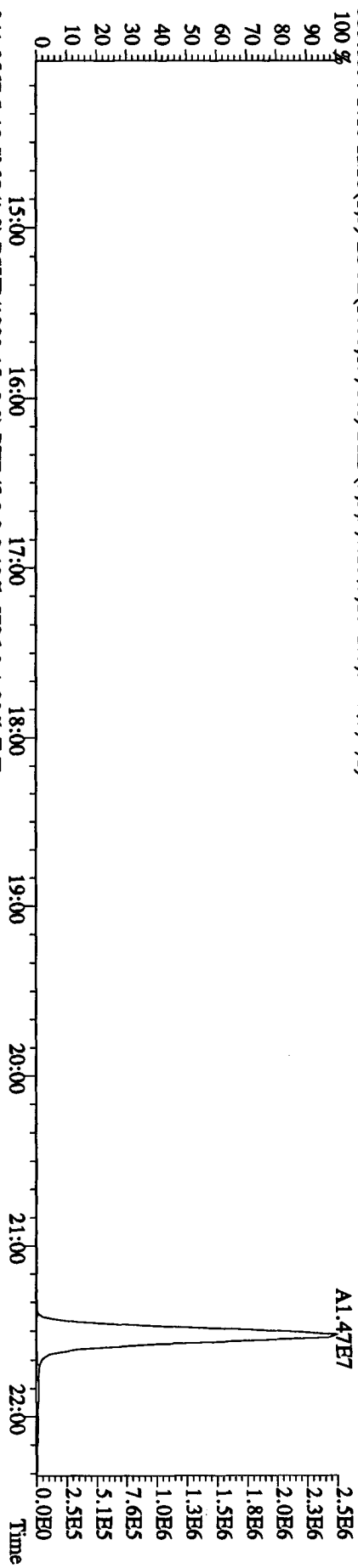
Sample#10 Text:1:Q2K7-2-AC :G9L120491-2RX

Exp:DIOXIN

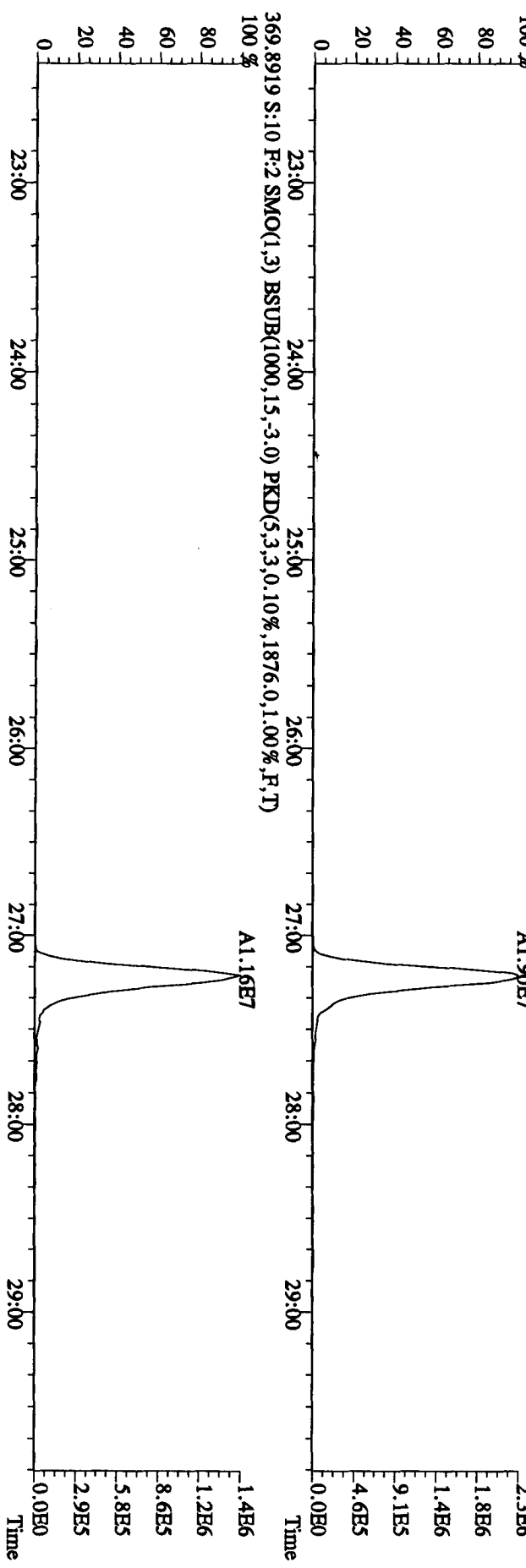
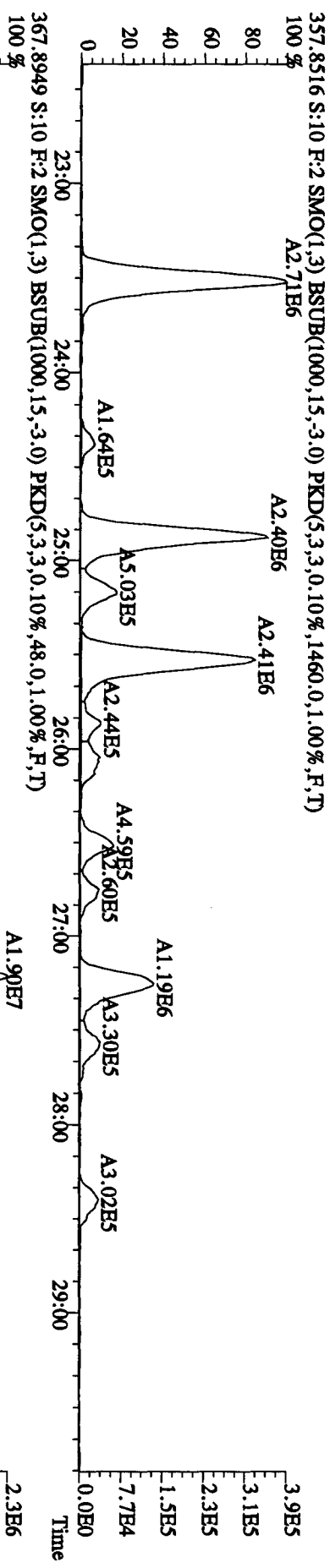
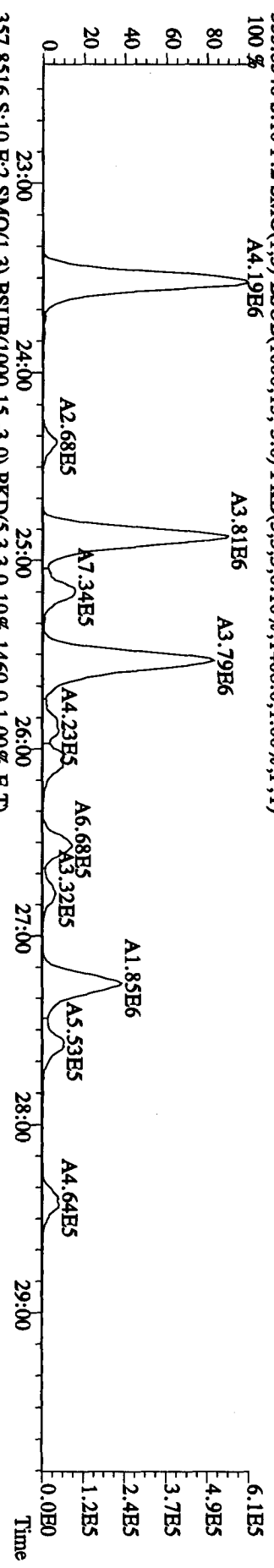
339.8597 S:10 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12176,0,1.00%,F,T)

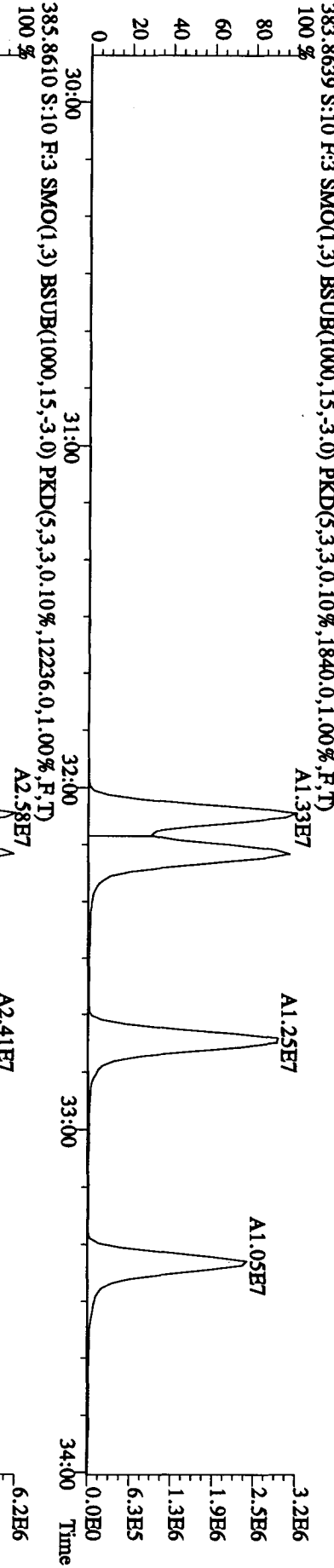
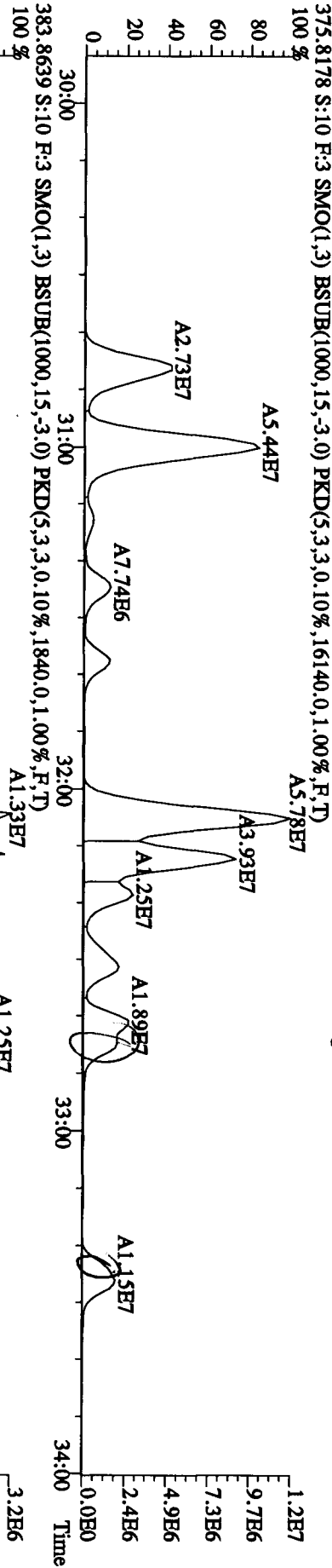
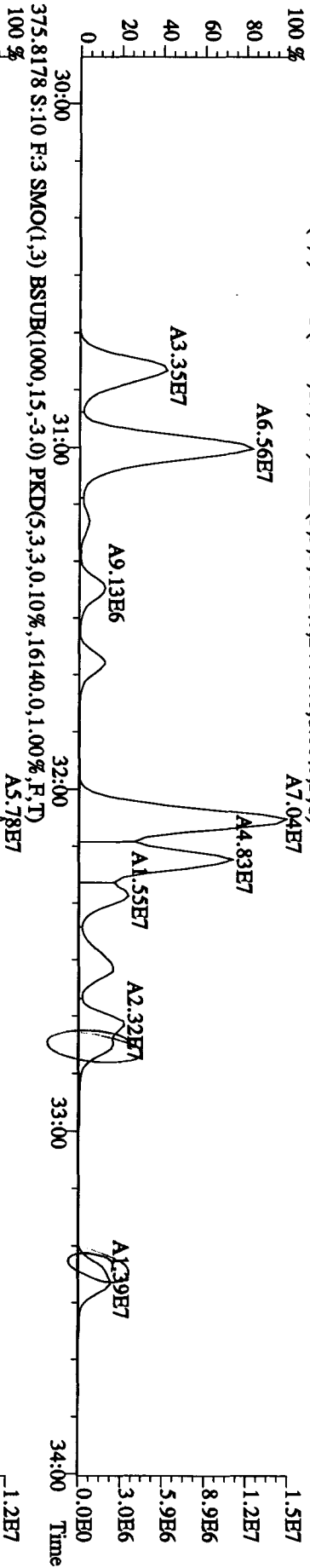


File: 22DE09A4D5 #1-578 Acq: 23-DEC-2009 04:02:27 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#10 Text: LQ2K7-2-AC :G9L120491-2RX Exp: DIOXIN
 339,8597 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1032.0,1.00%,F,T)

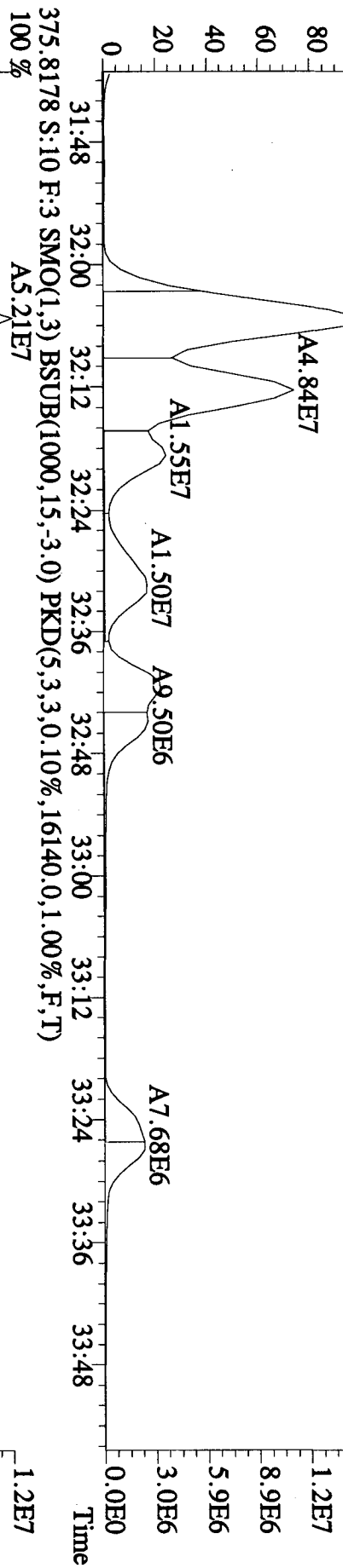


File: 22DE09A4D5 #1-596 Acq: 23-DEC-2009 04:02:27 GC EI + Voltage SIR Autospec-UltimaB
 Sample#10 Text: LQ2K7-2-AC :G9L120491-2RX Exp: DIOXIN
 355.8546 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1408.0,1.00%,F,T)





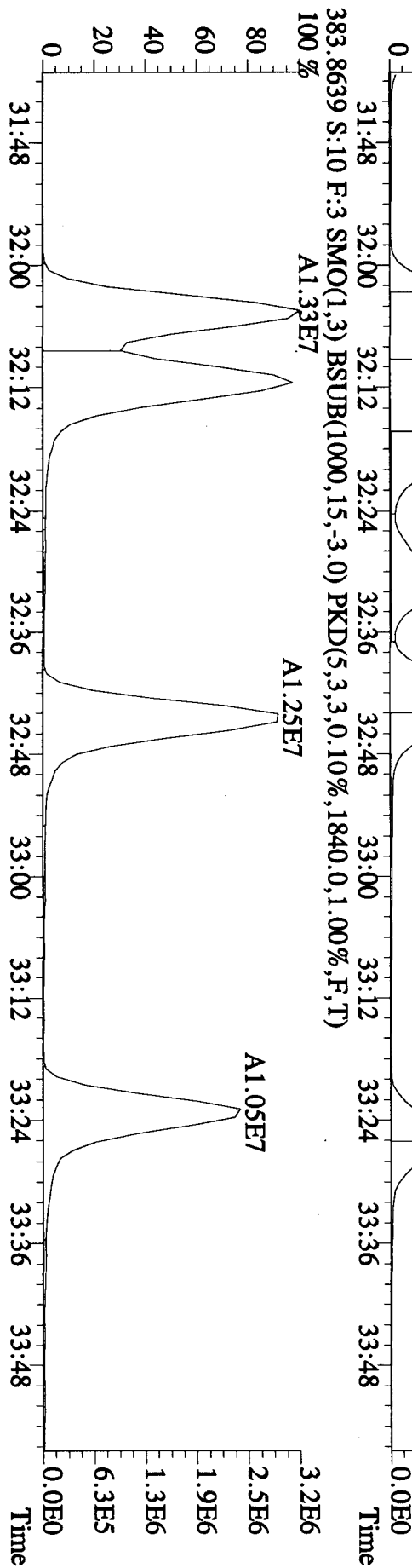
File: 22DE09A4D5 #1-314 Acq: 23-DEC-2009 04:02:27 GC EI + Voltage SIR Autospec-Ultimate
 Sample#10 Text: LO2K7-2-AC : G9L120491-2R Exp: DIOXIN
 373.8208 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,24440.0,1.00%,F,T)
 100%



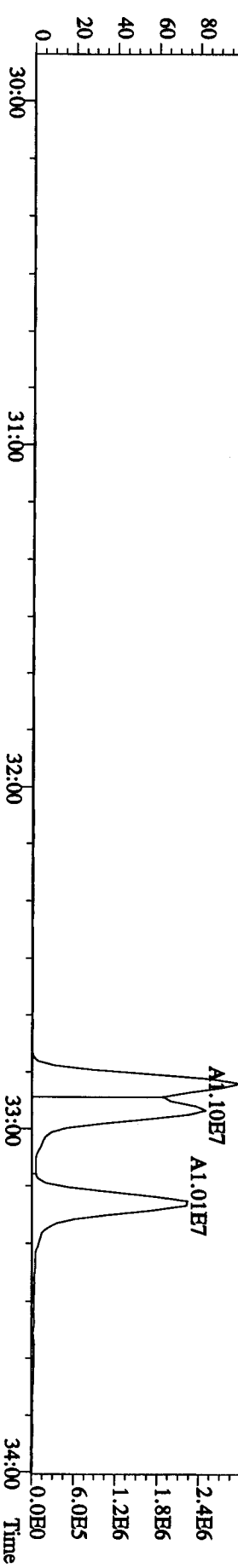
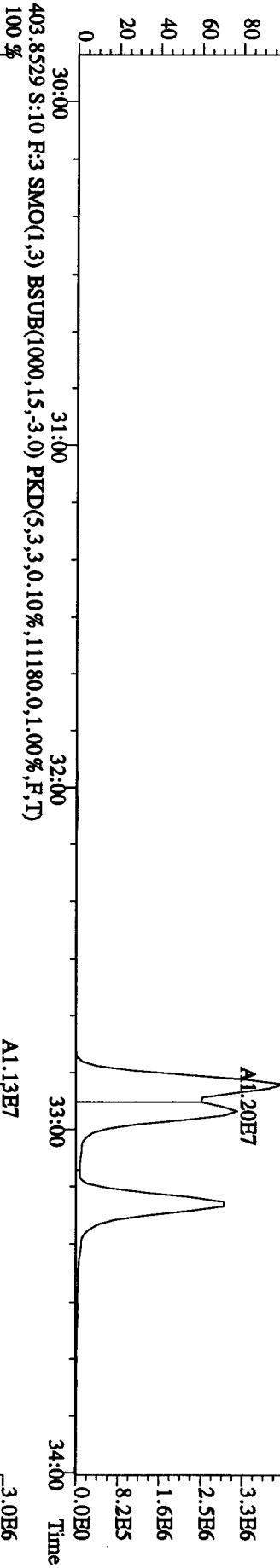
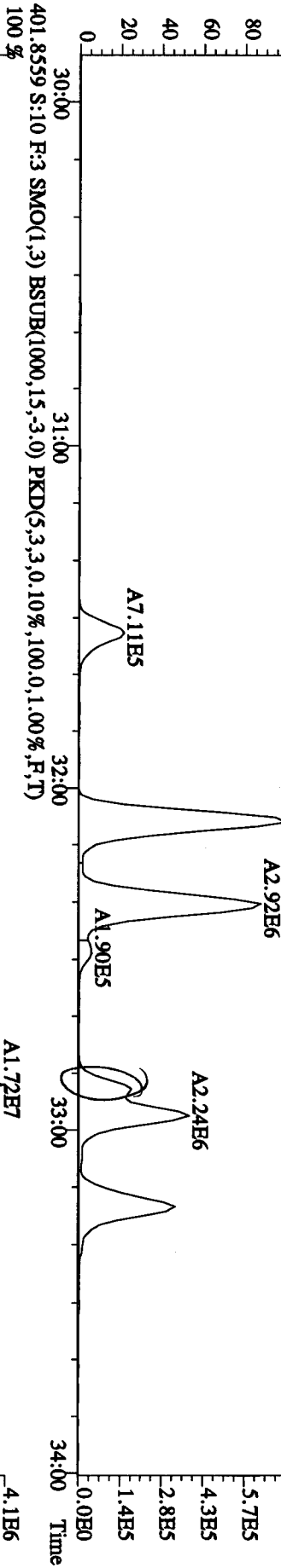
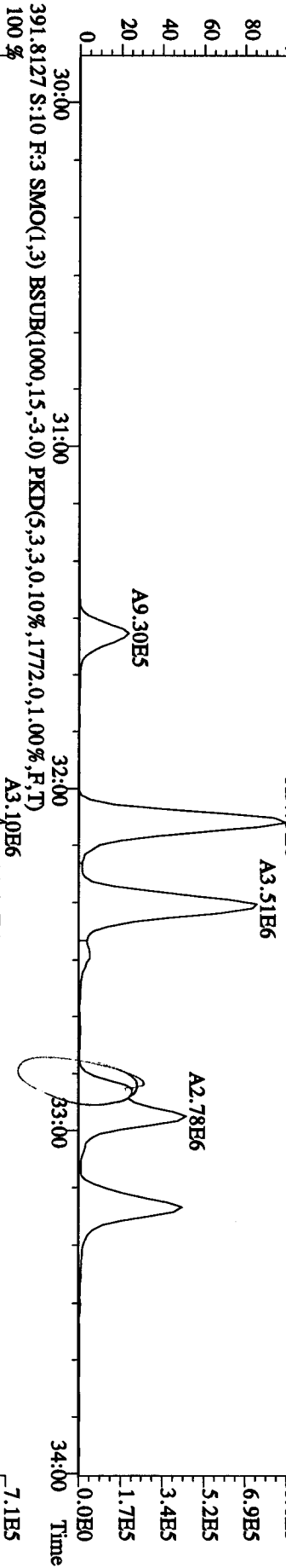
MANUAL EDIT CODES

- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other

Analyst 05 A6.04E6 12-28-09



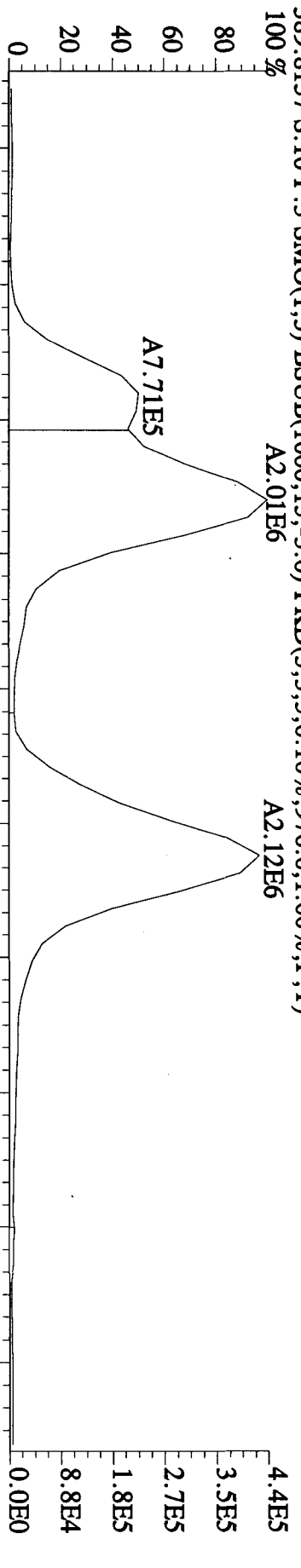
File:22DE09A4D5 #1-314 Acq:23-DEC-2009 04:02:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 Text:LO2K7-2-AC :G9L120491-2RX Exp:DIOXIN
 389.8157 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,976.0,1.00%,F,T)



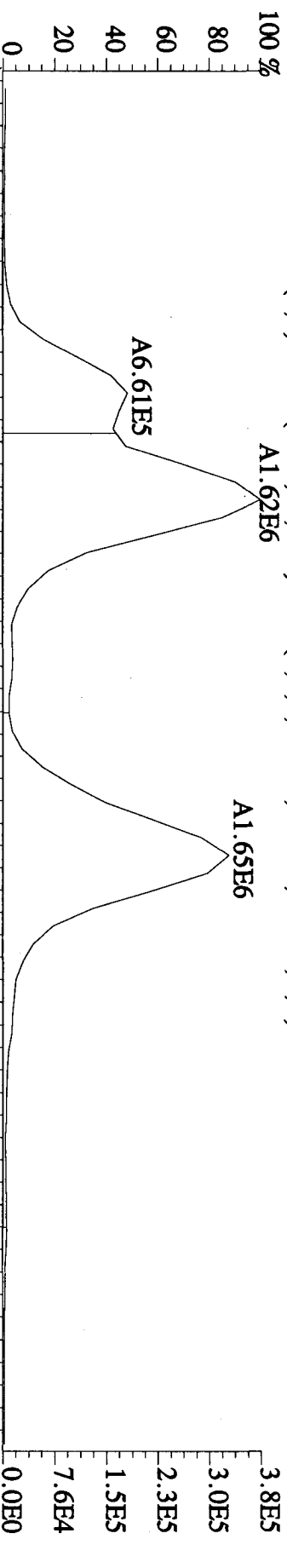
File: 22DE09A4D5 #1-314 Acq: 23-DEC-2009 04:02:27 GC EI + Voltage SIR Autospec-Ultimate

Sample#10 Text: LQ2K7-2-AC : G9L120491-2R Exp: DIOXIN

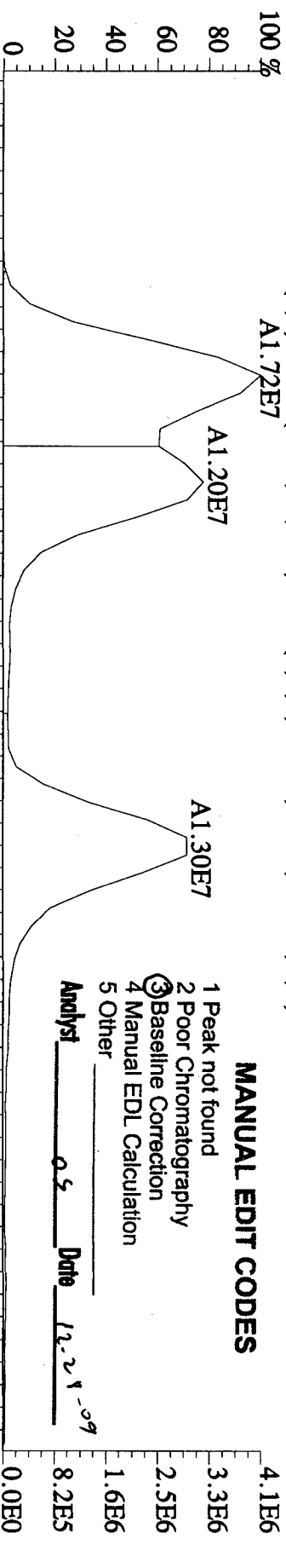
389.8157 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,976.0,1.00%,F,T)



391.8127 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1772.0,1.00%,F,T)



401.8559 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,100.0,1.00%,F,T)

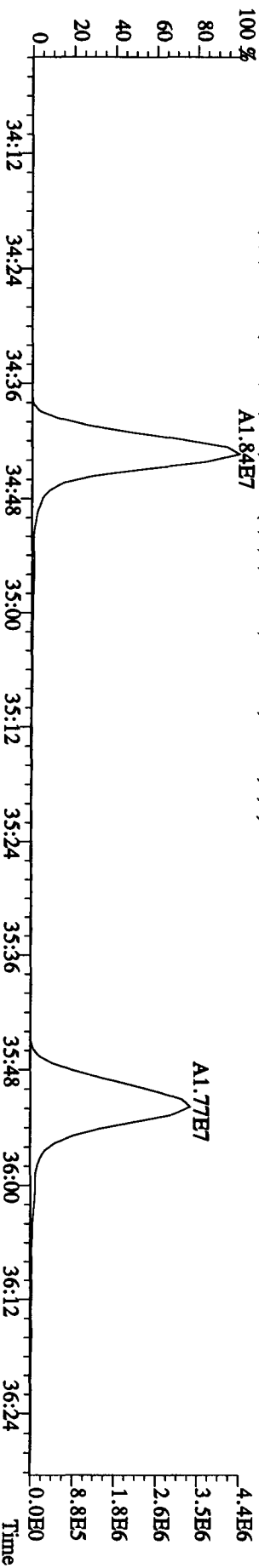
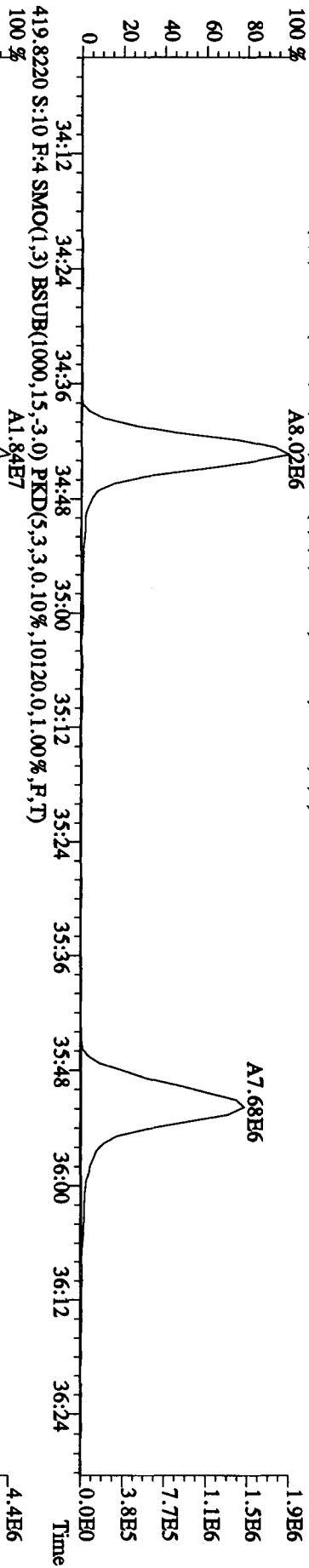
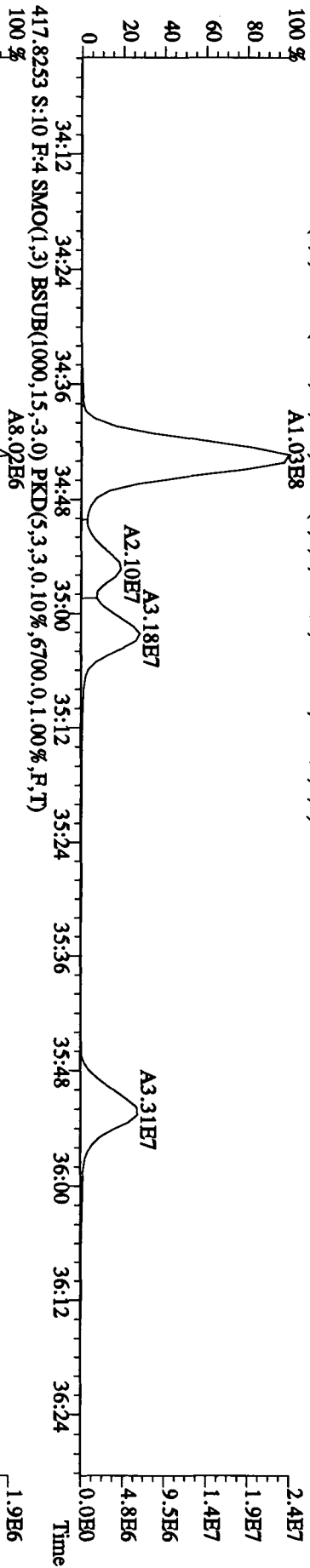
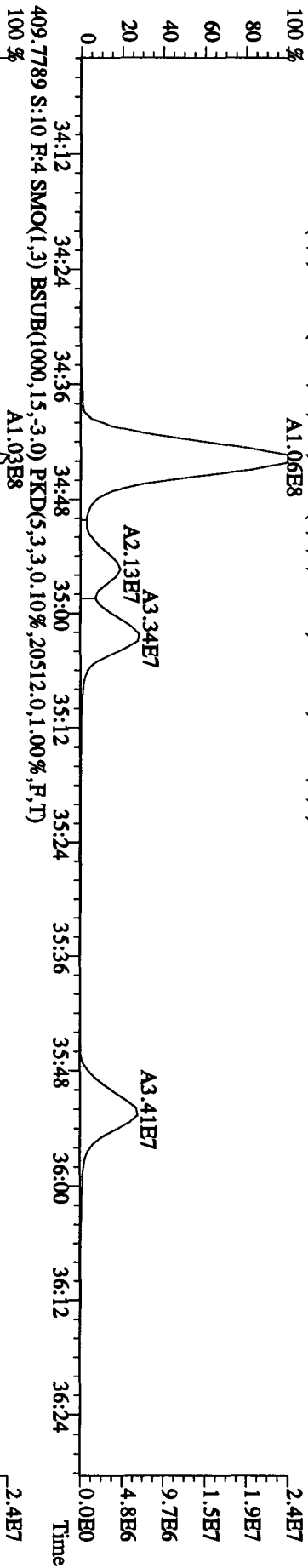


MANUAL EDIT CODES

- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other

Analyst OS Date 12-21-09

File:22DB09A4D5 #1-198 Acq:23-DEC-2009 04:02:27 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#10 Text:LQ2K7-2-AC :G9L120491-2RX Exp:DIOXIN
 407.7818 S:10 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,17800,0,1,00%,F,T)
 100 %

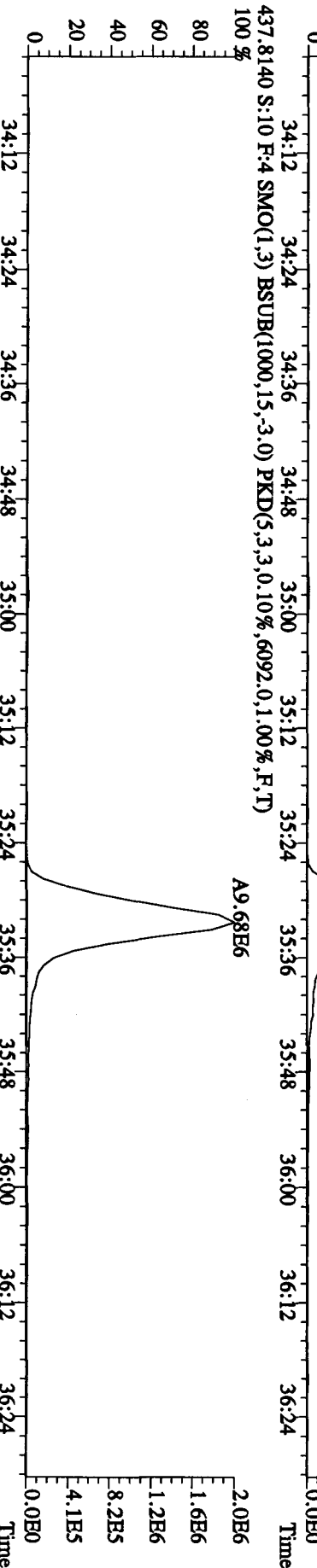
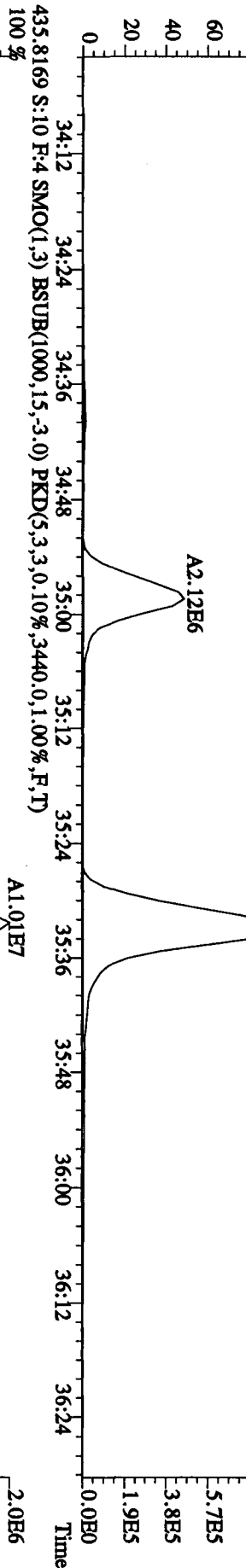
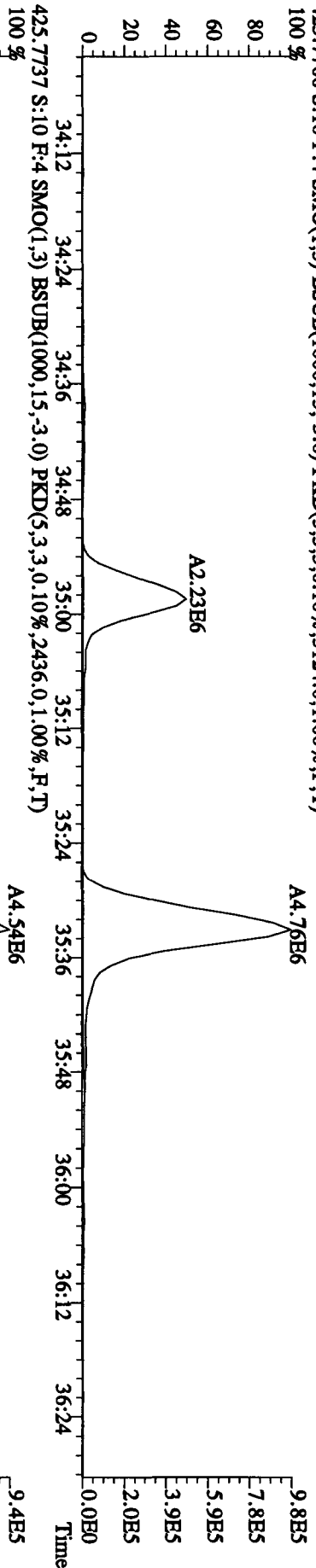


File:22DE09A4D5 #1-198 Acq:23-DEC-2009 04:02:27 GC EI+ Voltage SIR Autospec-UltimaB

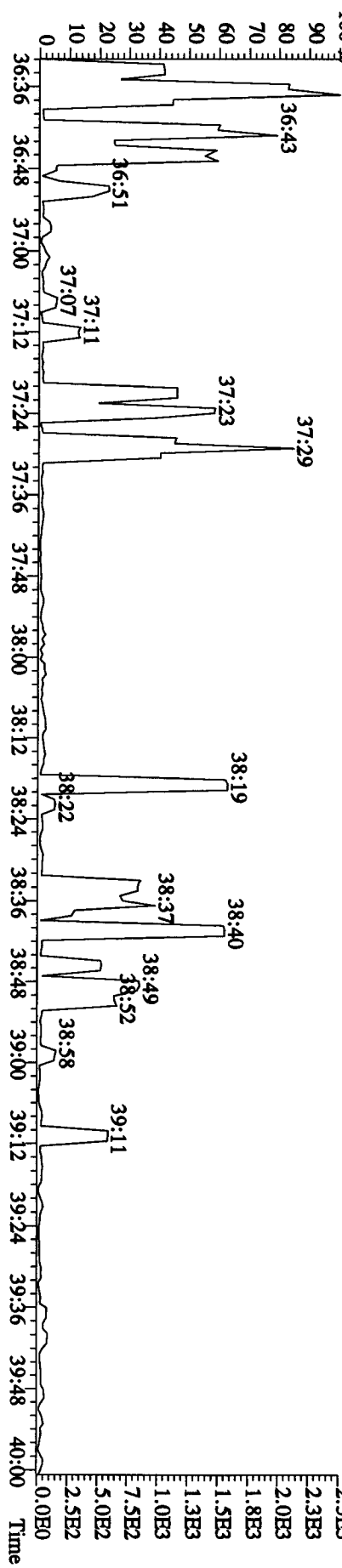
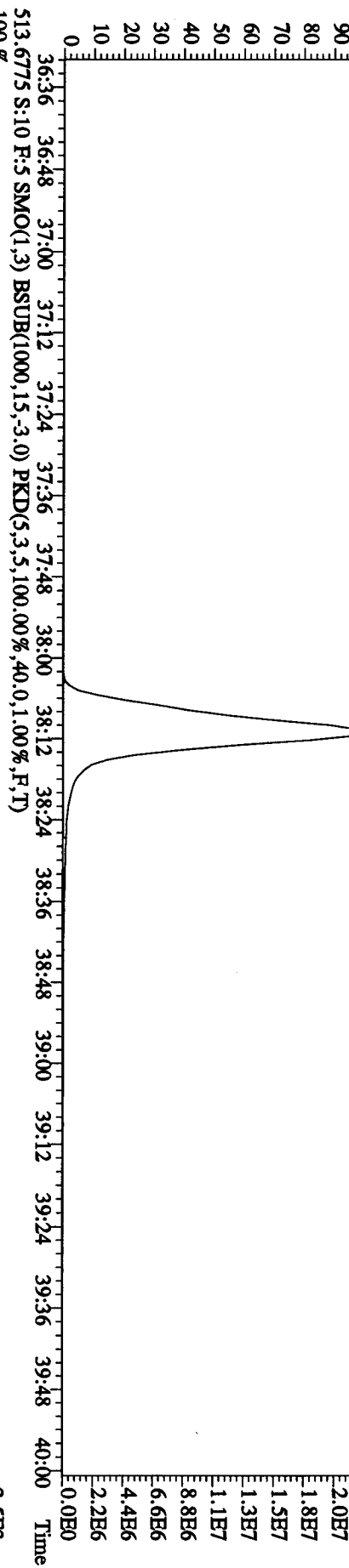
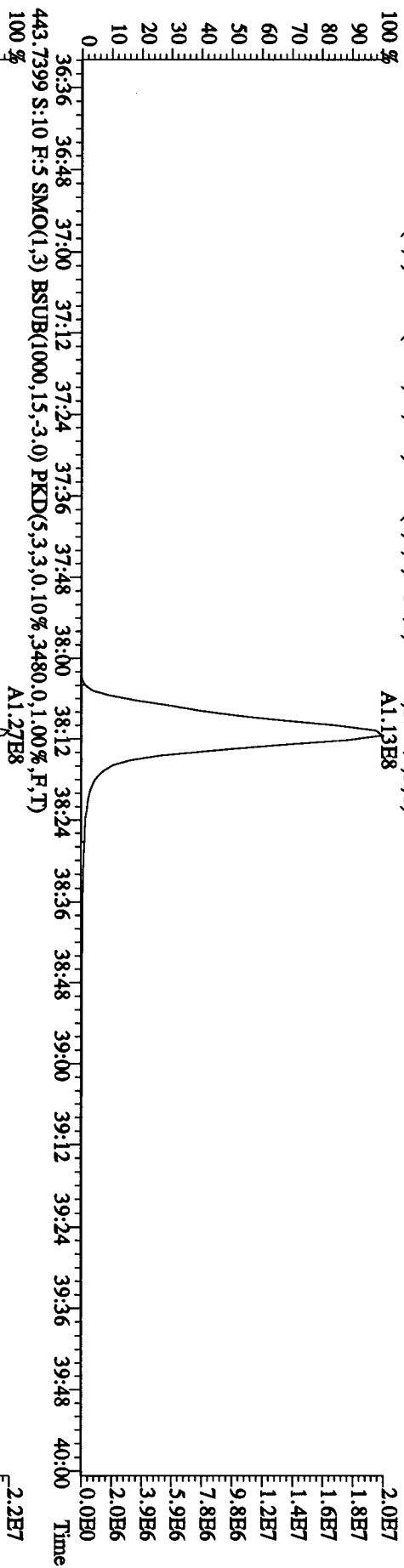
Sample#10 Tex:LO2K7-2-AC :G9L120491-2RX

Exp:DIOXIN

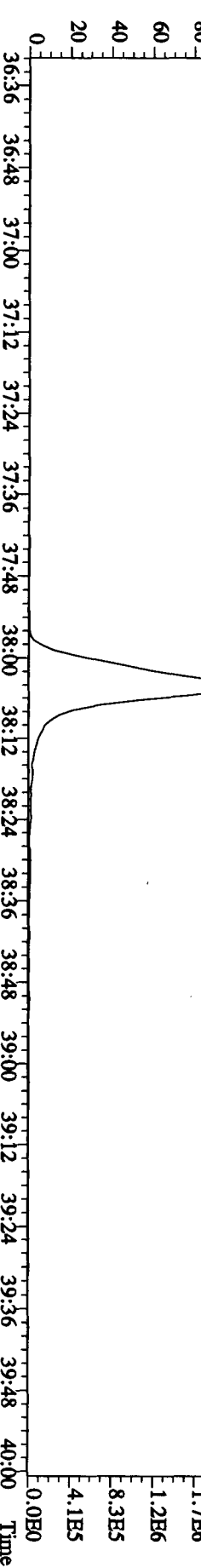
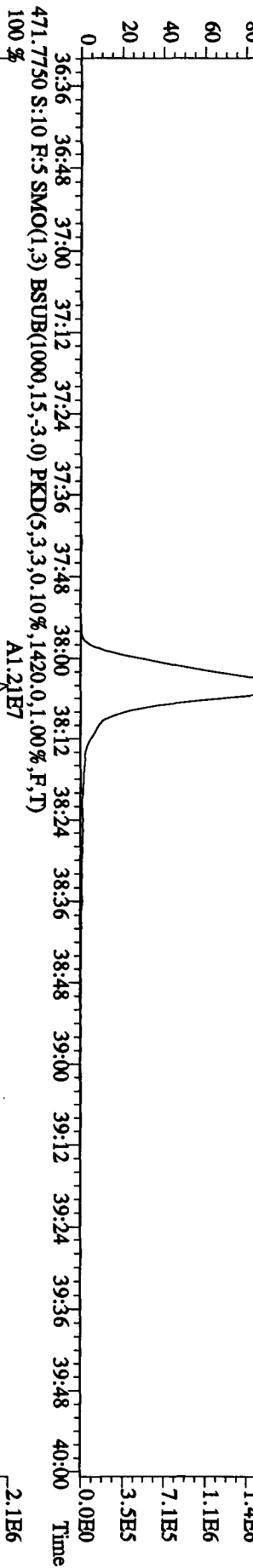
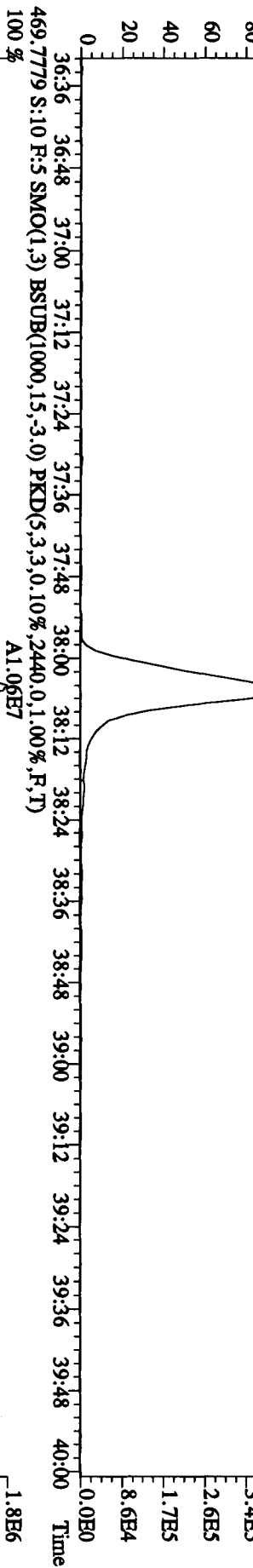
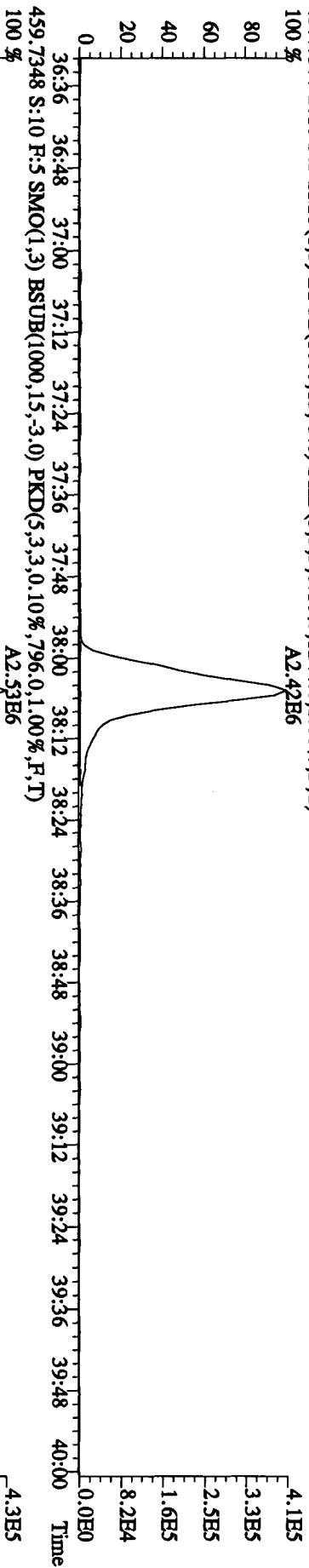
423.7766 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3124.0,1.00%,F,T)

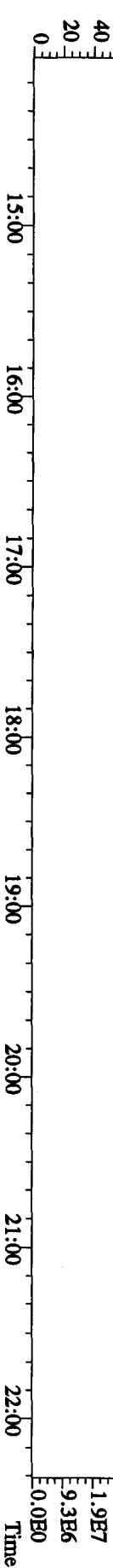
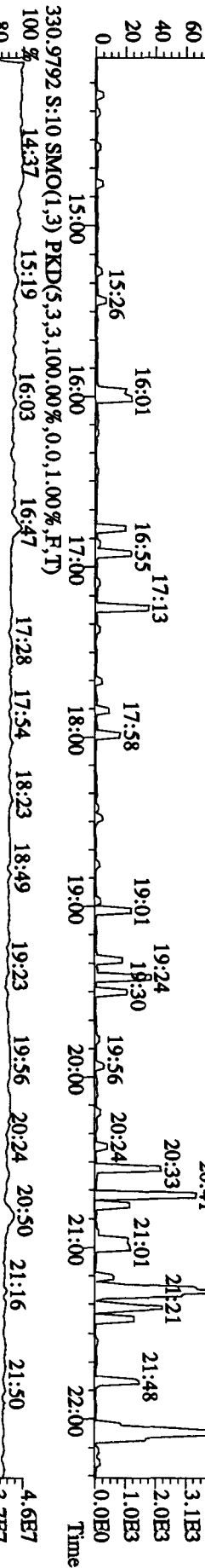
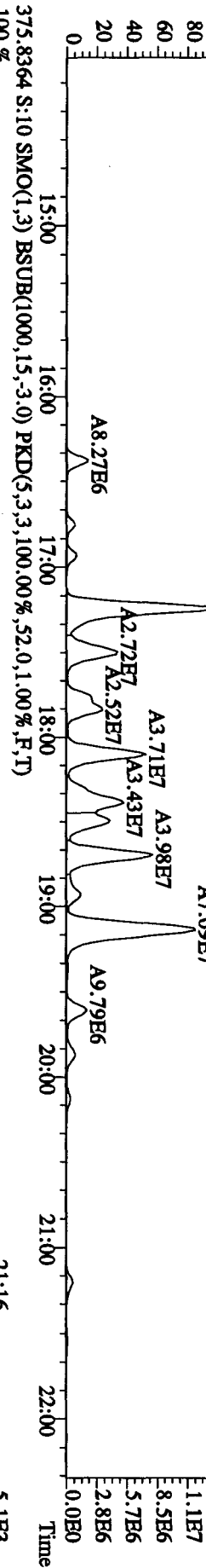
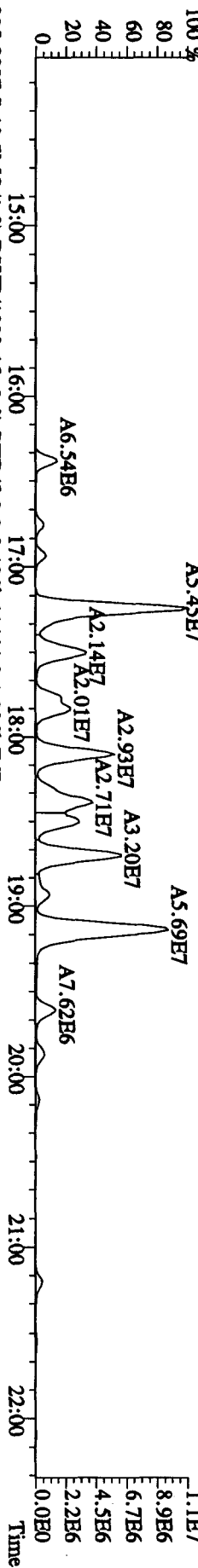
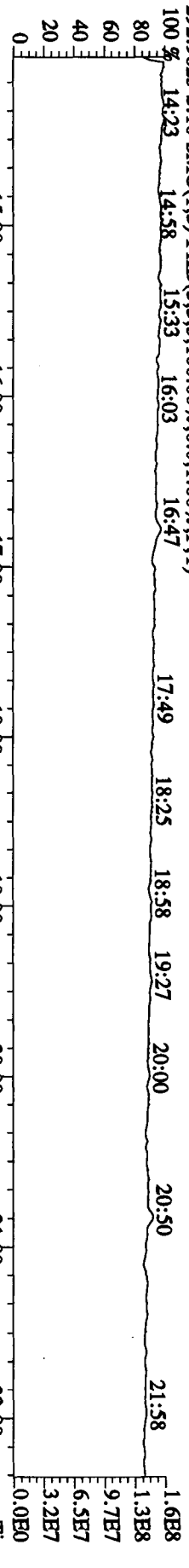


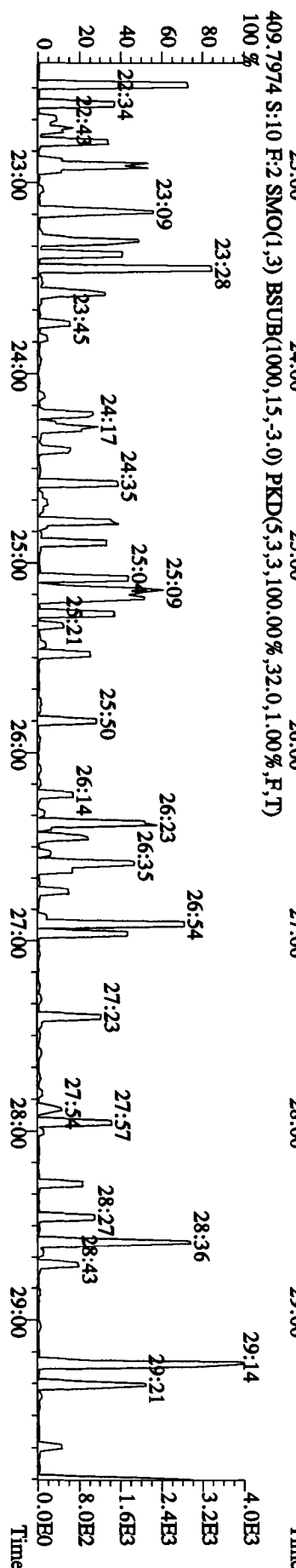
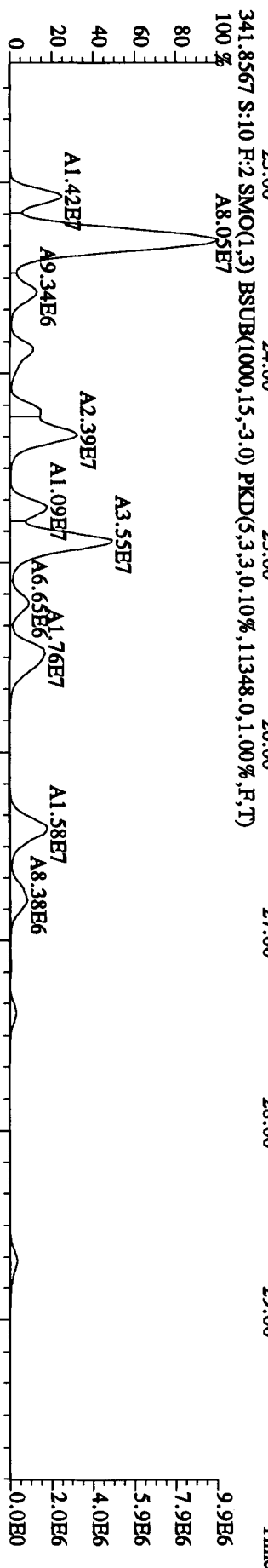
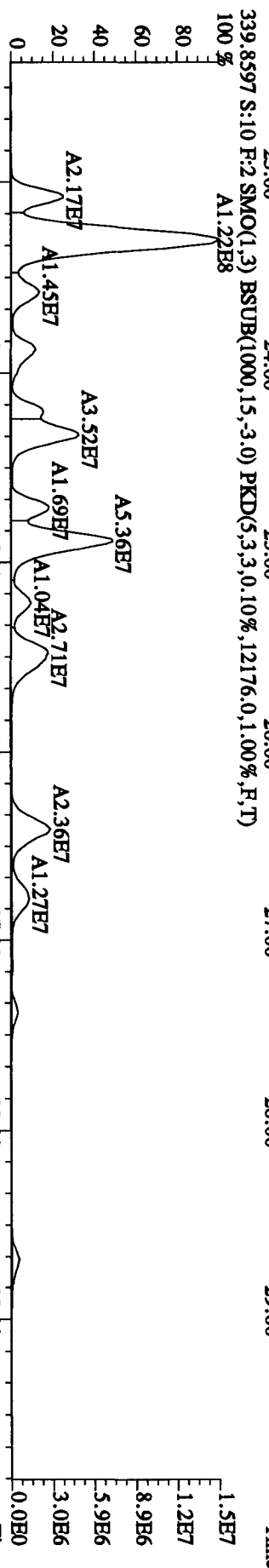
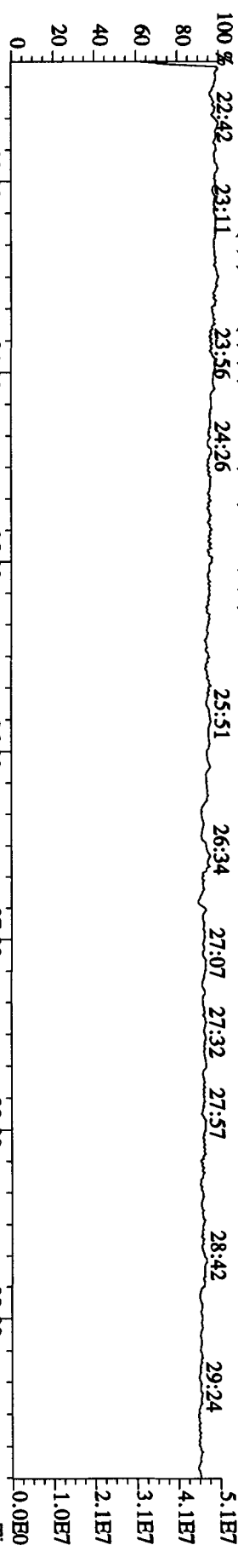
File: 22DE09A4D5 #1-282 Acq: 23-DEC-2009 04:02:27 GC EI + Voltage SIR Autospec-Ultimate
 Sample#10 Text: LO2K7-2-AC :G9L120491-2RX Exp: DIOXIN
 441.7428 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2764.0,1.00%,F,T) A1.13E8



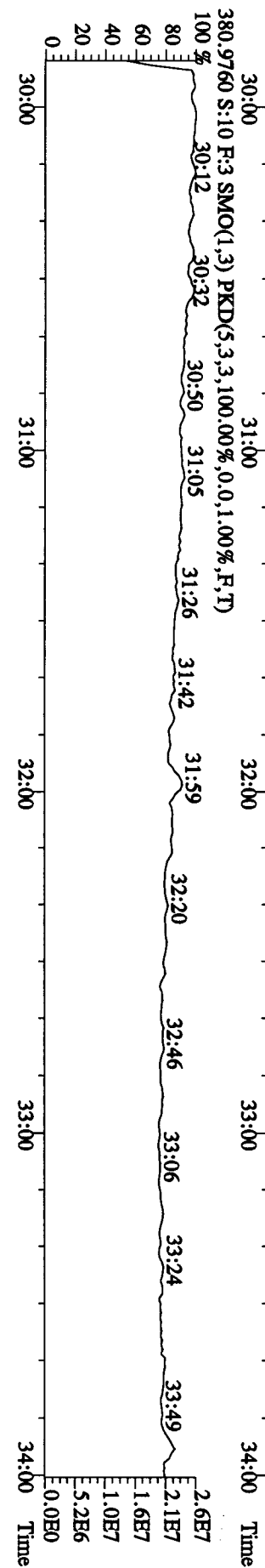
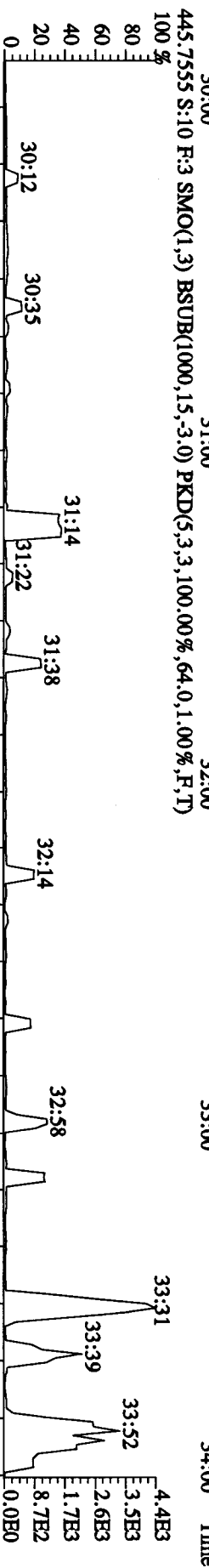
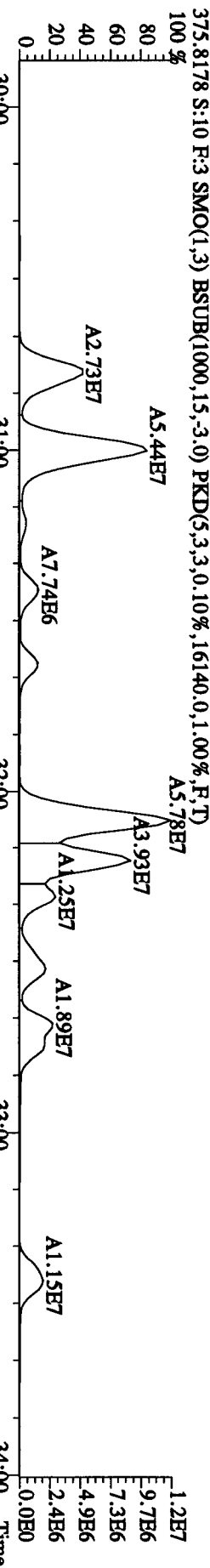
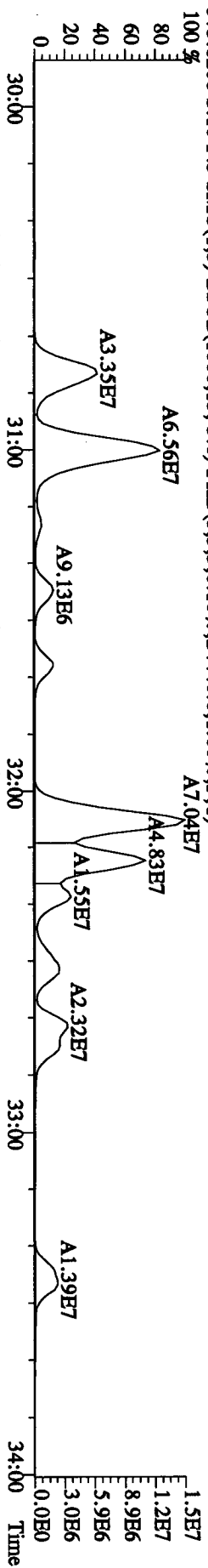
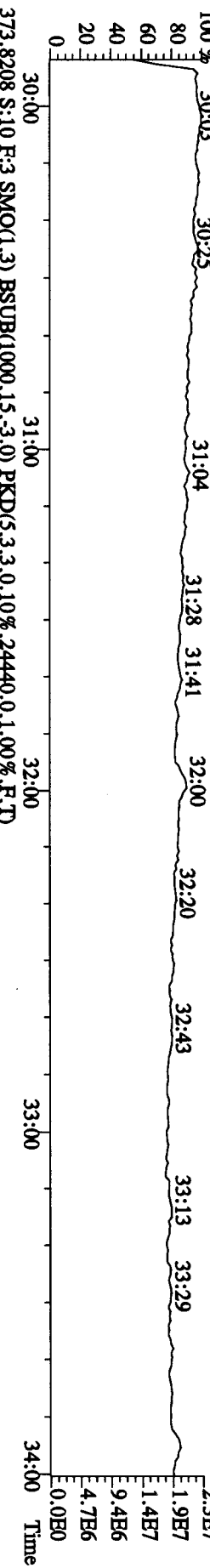
File:22DBE9A4D5 #1-282 Acq:23-DEC-2009 04:02:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#10 Text:LQ2K7-2-AC :G9L120491-2RX Exp:DIOXIN
 457.7377 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1244.0,1.00%,F,T)
 100%

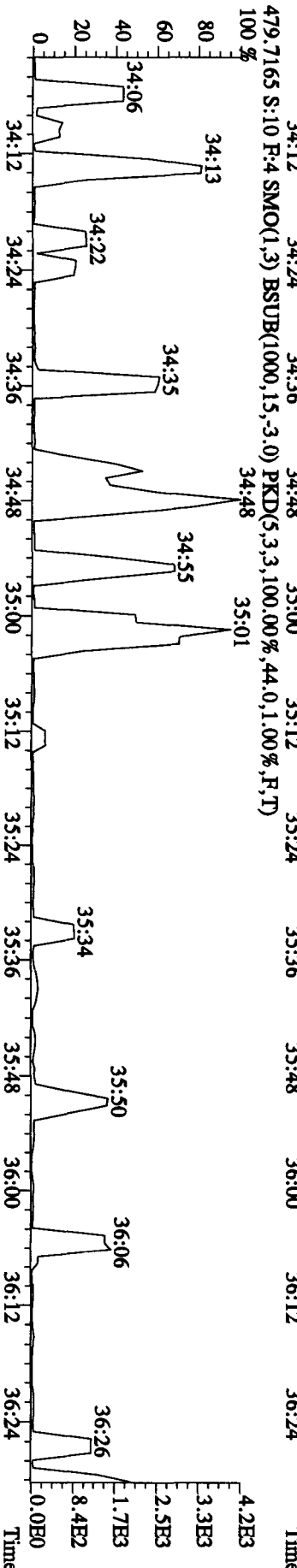
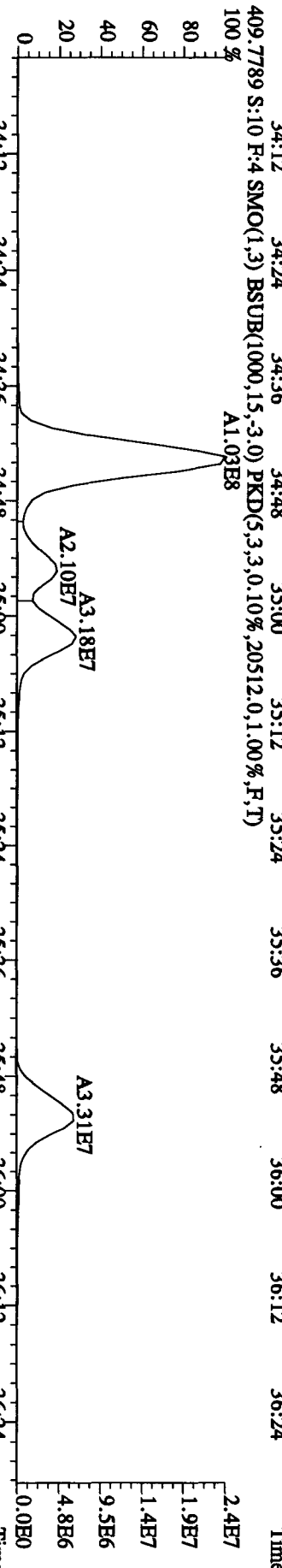
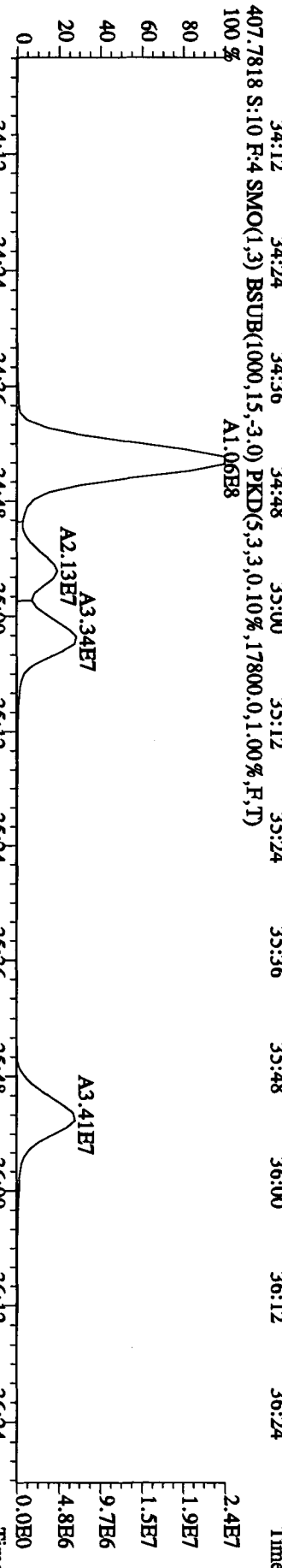
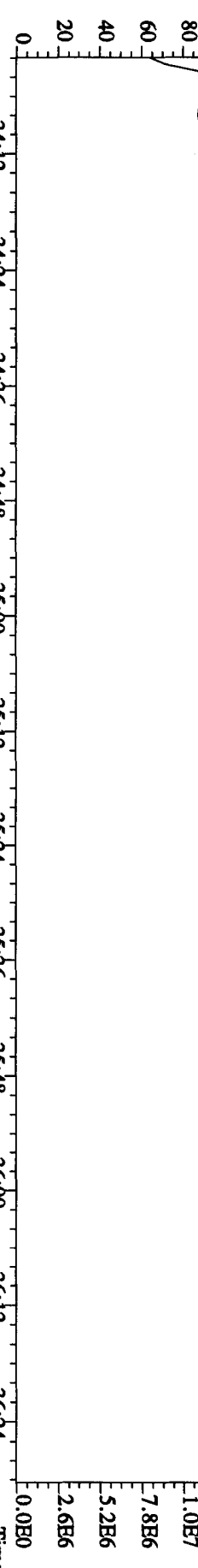




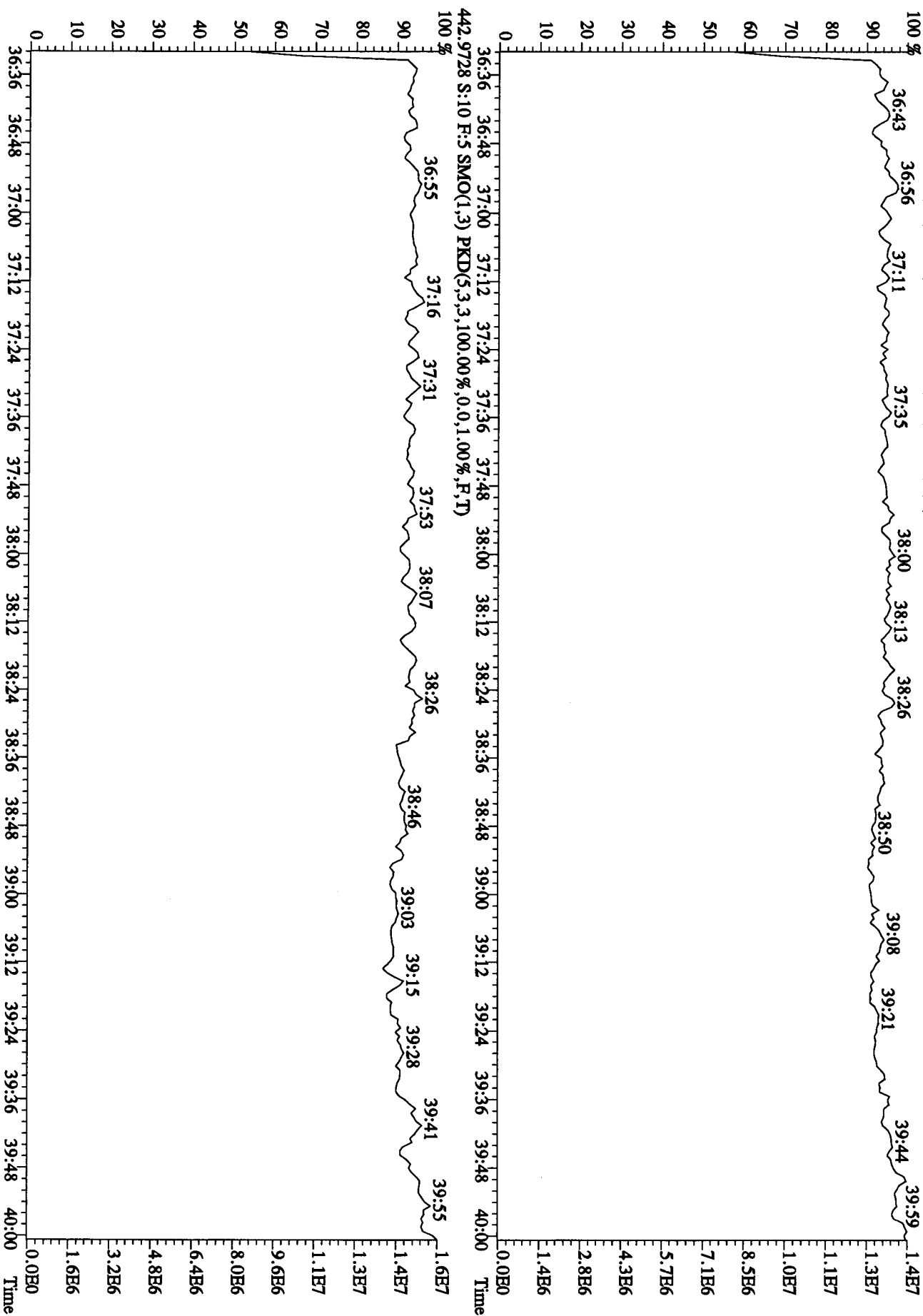


File:22DE09A4D5 #1-314 Acq:23-DEC-2009 04:02:27 GC HI + Voltage SIR Autospec-Ultimate
 Sample#10 Text:LO2K7-2-AC :G9L120491-2RX Exp:DIOXIN
 392.9760 S:10 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 380.9760 S:10 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)





File: 22DE09A4D5 #1-282 Acq: 23-DEC-2009 04:02:27 GC EI + Voltage SIR Autospec-UltimaB
 Sample#10 Text: LOZIK7-2-AC : G9L120491-2RX Exp: DIOXIN
 454.9728 S:10 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

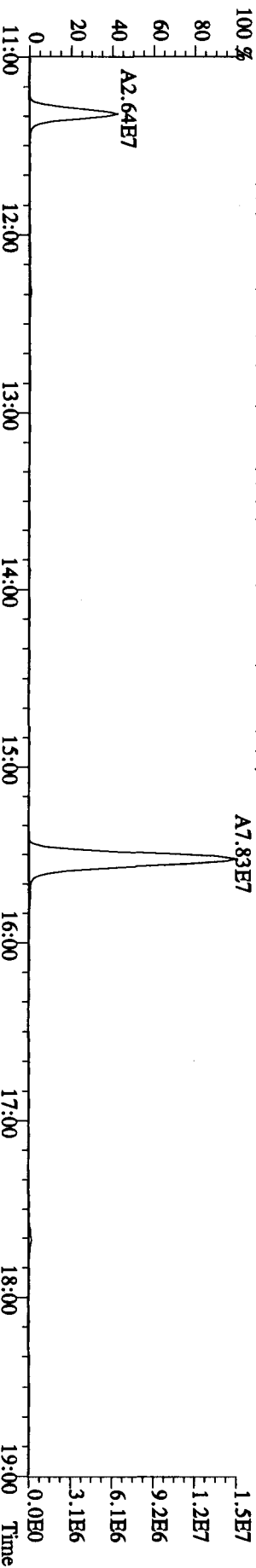
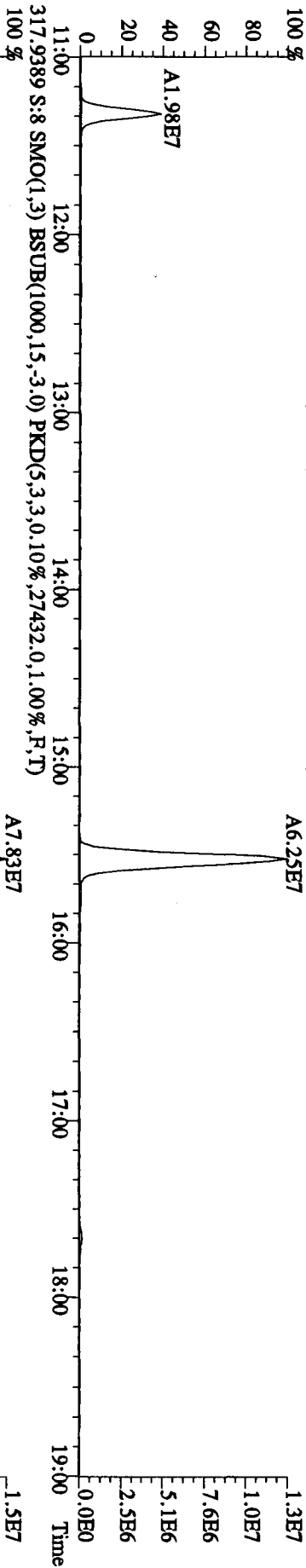
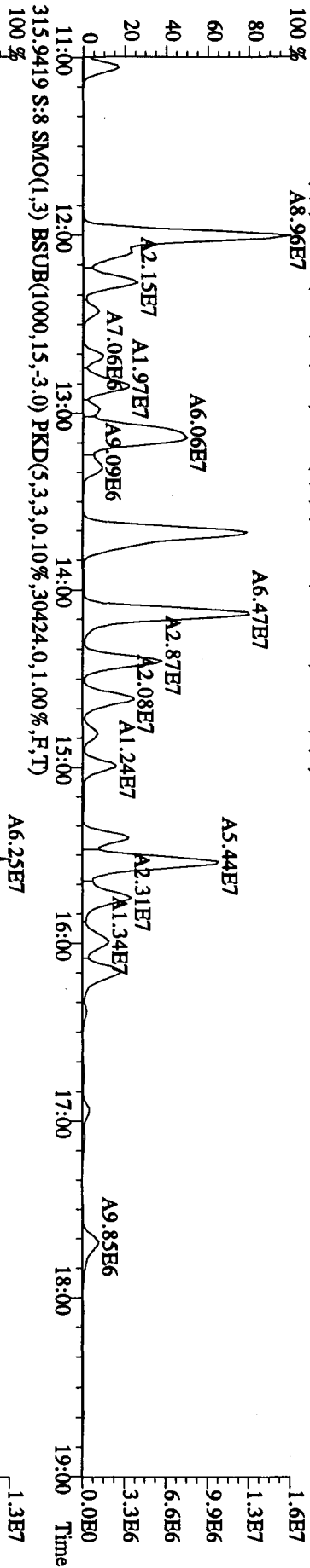
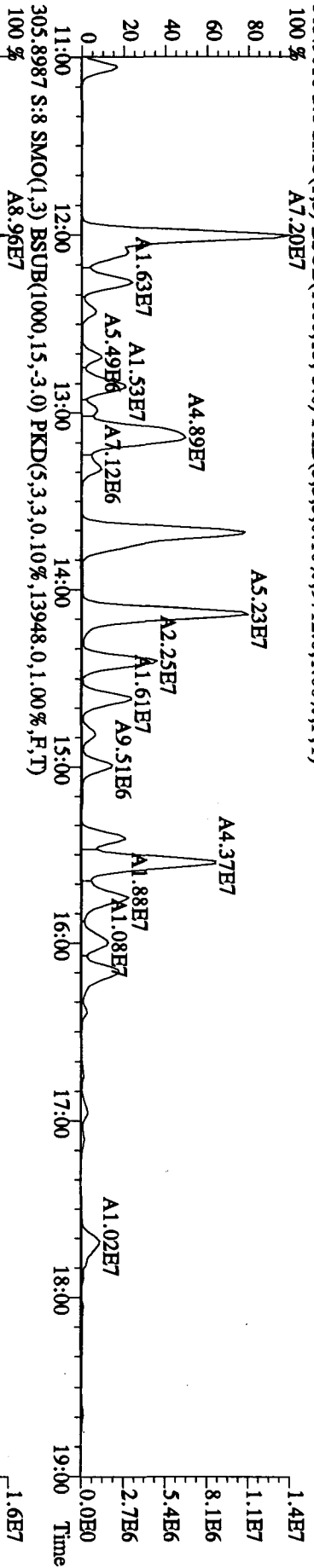


Run text: LQ2K7-2-AC Sample text: LQ2K7-2-AC :G9L120491-2RX
 Run #12 Filename: 23DE095D2 S: 8 I: 1 Results: 23DE095D2DB225
 Acquired: 23-DEC-09 13:12:51 Processed: 23-DEC-09 14:25:14
 Run: 23DE095D2 Analyte: DB225HRS Cal: DB2251021095D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.04007g

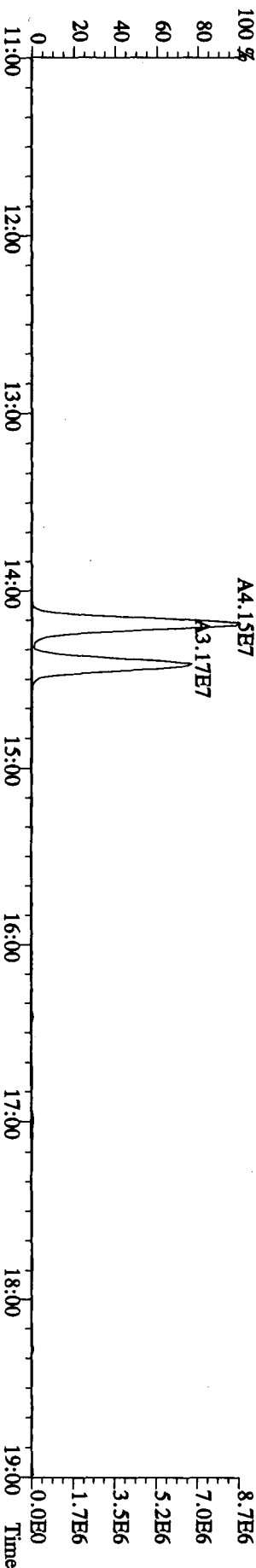
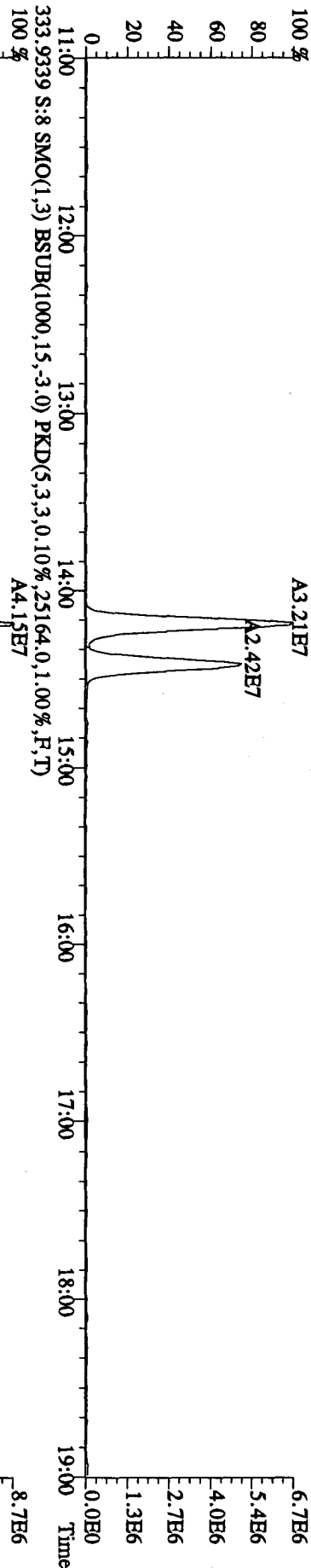
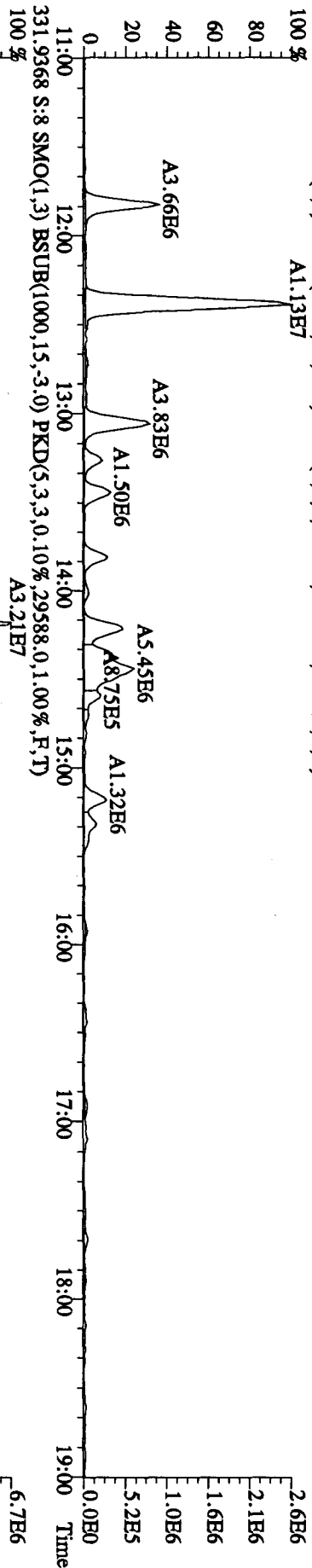
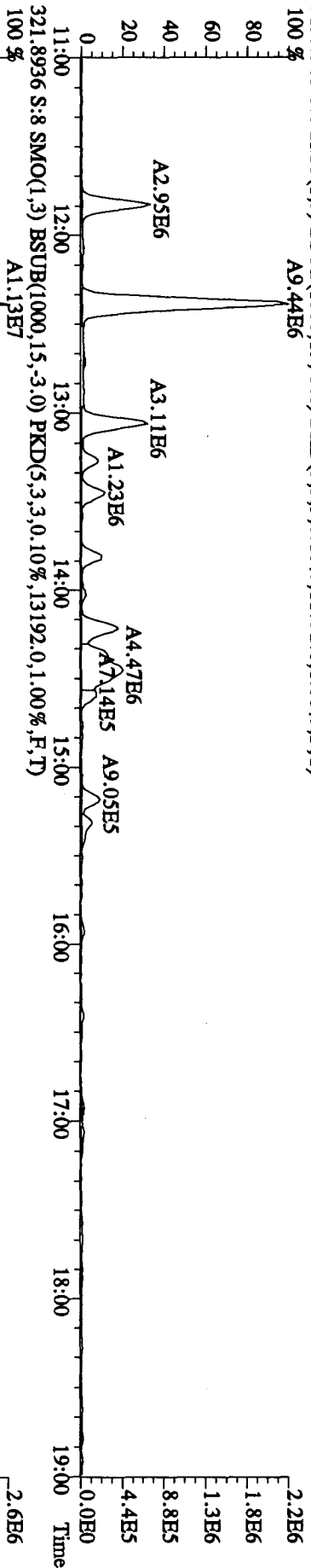
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	55877000	0.76 y	14:25	-	3.66	-	-	n
13C-2,3,7,8-TCDF	140780700	0.80 y	15:31	1.98	127.03	0.75	63.8	n
2,3,7,8-TCDF	98038800	0.80 y	15:32	1.18	117.58	0.43	-	n
13C-2,3,7,8-TCDD	73592900	0.77 y	14:11	0.97	135.11	1.44	67.8	n
2,3,7,8-TCDD	4677600	0.81 y	14:13	1.51	8.41	0.65	-	n
37Cl-2,3,7,8-TCDD	86395000	1.00 y	14:13	2.70	56.94	0.27	71.5	n

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12-28-09

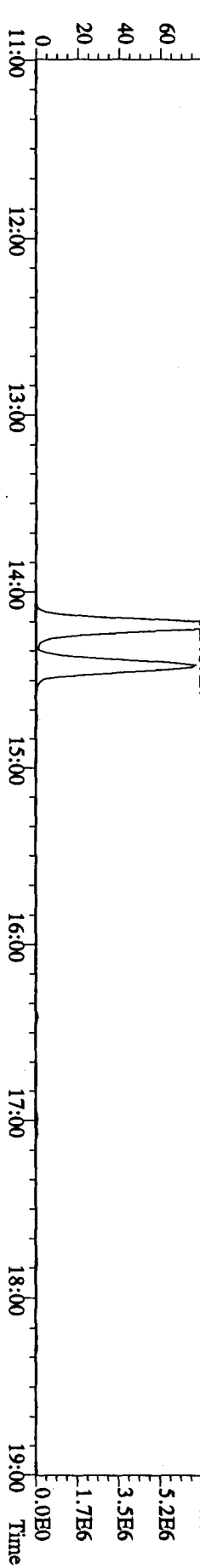
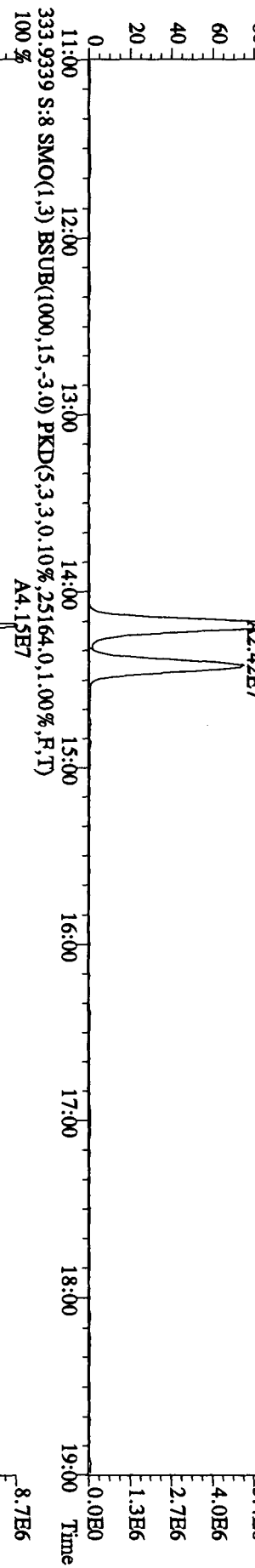
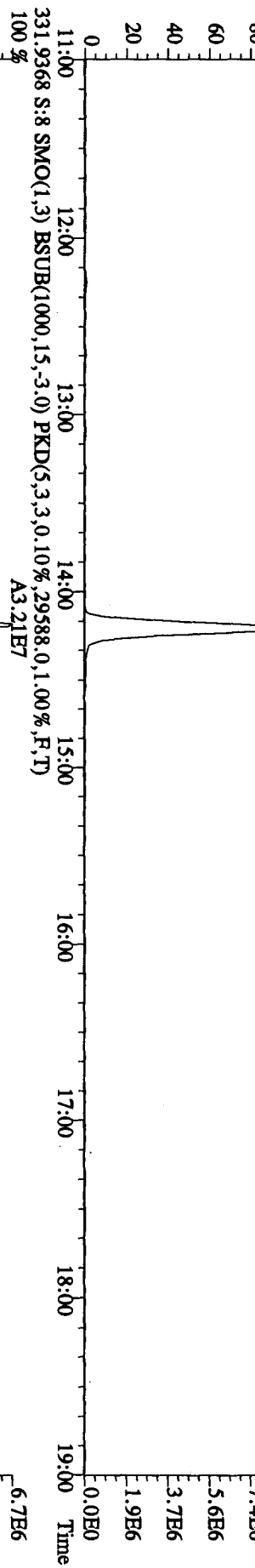
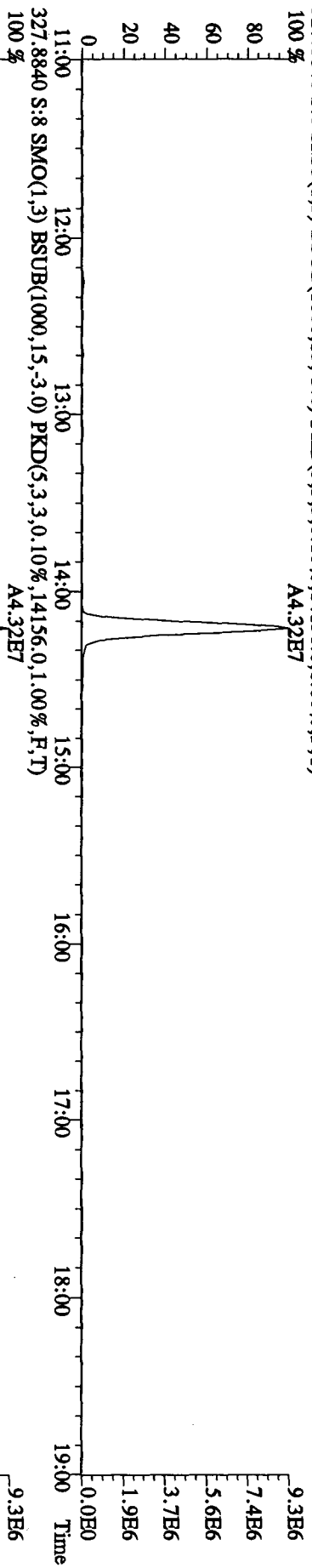
File:23DE095SD2 #1-1242 Acq:23-DEC-2009 13:12:51 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LO2K7-2-AC :G9L120491-2RX Exp:DB225
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9712.0,1.00%,F,T)
 100% A7.20E7



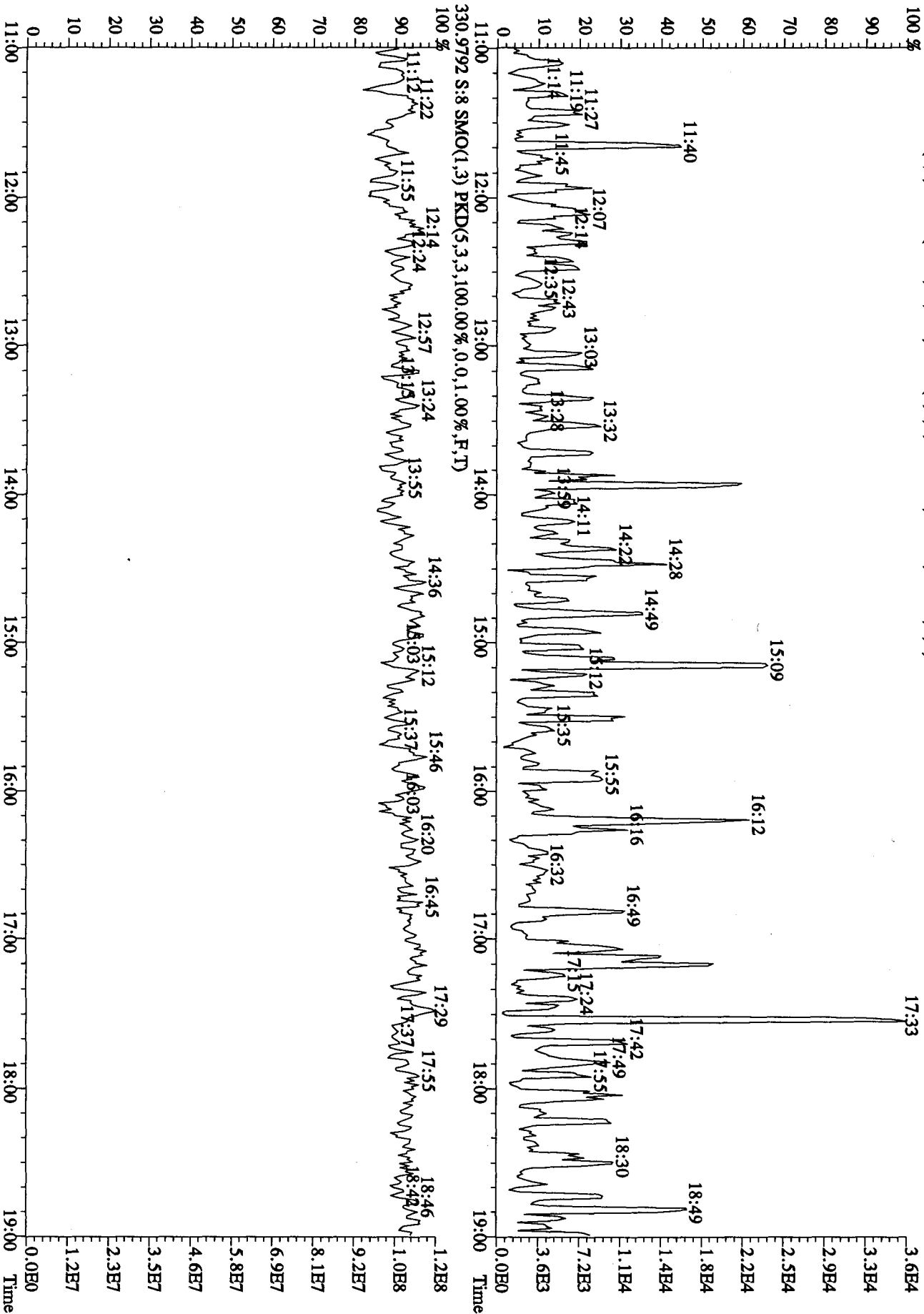
File: 23DE095D2 #1-1242 Acq: 23-DEC-2009 13:12:51 GC EI+ Voltage SIR 70SE
Sample#8 Text: LQ2K7-2-AC : G9L120491-2RX Exp: DB225
319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11792.0,1.00%,F,T)
100 %



File:23DE095SD2 #1-1242 Acq:23-DEC-2009 13:12:51 GC EI+ Voltage SIR 70SE
Sample#8 Text:LQ2K7-2-AC :G9L120491-2RX Exp:DB225
327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14156.0,1.00%,F,T)
100% A4.32E7



File: 23DE095D2 #1-1242 Acq: 23-DEC-2009 13:12:51 GC EI+ Voltage SIR 70SE
 Sample #8 Text: LQ2K7-2-AC :G9L120491-2RX Exp: DB225
 375.8364 S: 8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LQ2K8-3-AC Sample text: LQ2K8-3-AC :G9L120491-3RX
 Run #10 Filename: 04JA10A1D5 S: 6 I: 1 Results: 04ja10ald58290
 Acquired: 4-JAN-10 17:51:48 Processed: 5-JAN-10 07:51:37
 Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.31 g

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	132580500	0.79 y	18:43	-	4.13	-	-	n
13C-2,3,7,8-TCDF	191503800	0.76 y	18:09	1.57	89.46	0.13	46.1	n
2,3,7,8-TCDF	5453610	0.71 y	18:11	0.86	6.42 <i>see 08225</i>	0.23	-	n
Total TCDF	29050934	0.70 y	15:34	0.86	34.22	0.23	-	n
13C-2,3,7,8-TCDD	139881100	0.78 y	18:55	0.99	103.02	0.34	53.1	n
2,3,7,8-TCDD	*	* n	NotFnd	0.93	*	0.21	-	n
Total TCDD	2258045	0.84 y	16:33	0.93	3.35	0.21	-	n
37Cl-2,3,7,8-TCDD	154127600	1.00 y	18:56	2.22	50.84	0.07	65.5	n
13C-1,2,3,7,8-PeCDF	129453100	1.60 y	23:34	1.07	88.27	0.16	45.5	n
1,2,3,7,8-PeCDF	3449130	1.65 y	23:36	1.00	✓ 5.17	0.43	-	n
2,3,4,7,8-PeCDF	1657262	1.56 y	25:00	0.94	✓ 2.65	0.46	-	n
Total F2 PeCDF	22491071	1.62 y	21:55	0.97	34.69	0.45	-	n
Total F1 PeCDF	2183486	0.99 n	16:04	0.97	3.38	0.36	-	n
13C-1,2,3,7,8-PeCDD	86301300	1.74 y	25:46	0.67	94.75	0.15	48.8	n
1,2,3,7,8-PeCDD	191380	1.73 y	25:49	0.93	0.46 <i>J</i>	0.43	-	n
Total PeCDD	3571868	1.53 y	22:21	0.93	8.64	0.43	-	n
13C-1,2,3,7,8,9-HxCDD	98836000	1.20 y	32:52	-	3.50	-	-	n
13C-1,2,3,4,7,8-HxCDF	87236100	0.52 y	31:28	0.89	95.89	0.18	49.4	n
1,2,3,4,7,8-HxCDF	4858240	1.27 y	31:29	1.20	✓ 9.01	0.41	-	y
1,2,3,6,7,8-HxCDF	3819940	1.25 y	31:38	1.37	✓ 6.19	0.36	-	y
2,3,4,6,7,8-HxCDF	915747	1.27 y	32:19	1.24	1.64 <i>J</i>	0.39	-	y
1,2,3,7,8,9-HxCDF	540558	1.25 y	33:05	1.33	0.91 <i>J</i>	0.37	-	y
Total HxCDF	19572627	1.24 y	29:37	1.28	34.89	0.38	-	y
13C-1,2,3,6,7,8-HxCDD	86826900	1.31 y	32:33	0.73	116.39	0.26	60.0	n
1,2,3,4,7,8-HxCDD	92569	1.87 n	32:28	0.97	0.21	0.43	-	y
1,2,3,6,7,8-HxCDD	1018864	1.39 y	32:35	1.06	2.15 <i>J</i>	0.39	-	y
1,2,3,7,8,9-HxCDD	438039	1.57 n	32:53	1.28	0.77 <i>JQ</i>	0.33	-	n
Total HxCDD	13553492	1.34 y	30:47	1.10	27.49	0.38	-	y
13C-1,2,3,4,6,7,8-HpCDF	47638300	0.43 y	34:36	0.86	54.35	0.81	28.0	n
1,2,3,4,6,7,8-HpCDF	6657540	1.02 y	34:37	1.29	✓ 21.07	0.77	-	n
1,2,3,4,7,8,9-HpCDF	2518560	0.97 y	35:55	1.14	✓ 9.03	0.87	-	n
Total HpCDF	12636513	1.02 y	34:37	1.21	41.74	0.82	-	n
13C-1,2,3,4,6,7,8-HpCDD	44527600	1.12 y	35:32	0.75	58.09	0.37	29.9	n
1,2,3,4,6,7,8-HpCDD	920094	1.05 y	35:33	1.00	✓ 4.02	0.61	-	n
Total HpCDD	1253175	1.14 y	34:54	1.00	5.47	0.61	-	n
13C-OCDD	40159000	0.91 y	38:21	0.56	69.82	0.79	18.0	n

OCDF	7943860	0.87	y	38:27	1.44	✓ 53.39	1.79	-	n
OCDD	522418	0.78	y	38:21	1.11	4.55	1.32	-	n

Run text: LQ2K8-3-AC Sample text: LQ2K8-3-AC :G9L120491-3RX
 Run #10 Filename: 04JA10A1D5 S: 6 I: 1 Results: 04JA10A1D58290
 Acquired: 4-JAN-10 17:51:48 Processed: 5-JAN-10 07:51:37
 Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.3100µg

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	132580500	0.79 y	18:43	-	4.13	-	-	n
13C-2,3,7,8-TCDF	191503800	0.76 y	18:09	1.57	89.46	0.13	46.1	n
2,3,7,8-TCDF	5453610	0.71 y	18:11	0.86	6.42	0.23	-	n
Total TCDF	29050934	0.70 y	15:34	0.86	34.22	0.23	-	n
13C-2,3,7,8-TCDD	139881100	0.78 y	18:55	0.99	103.02	0.34	53.1	n
2,3,7,8-TCDD	*	* n	NotFnd	0.93	*	0.21	-	n
Total TCDD	2258045	0.84 y	16:33	0.93	3.35	0.21	-	n
37Cl-2,3,7,8-TCDD	154127600	1.00 y	18:56	2.22	50.84	0.07	65.5	n
13C-1,2,3,7,8-PeCDF	129453100	1.60 y	23:34	1.07	88.27	0.16	45.5	n
1,2,3,7,8-PeCDF	3449130	1.65 y	23:36	1.00	5.17	0.43	-	n
2,3,4,7,8-PeCDF	1657262	1.56 y	25:00	0.94	2.65	0.46	-	n
Total F2 PeCDF	22491071	1.62 y	21:55	0.97	34.69	0.45	-	n
Total F1 PeCDF	2183486	0.99 n	16:04	0.97	3.38	0.36	-	n
13C-1,2,3,7,8-PeCDD	86301300	1.74 y	25:46	0.67	94.75	0.15	48.8	n
1,2,3,7,8-PeCDD	191380	1.73 y	25:49	0.93	0.46	0.43	-	n
Total PeCDD	3571868	1.53 y	22:21	0.93	8.64	0.43	-	n
13C-1,2,3,7,8,9-HxCDD	98836000	1.20 y	32:52	-	3.50	-	-	n
13C-1,2,3,4,7,8-HxCDF	87236100	0.52 y	31:28	0.89	95.89	0.18	49.4	n
1,2,3,4,7,8-HxCDF	5653670	1.29 y	31:29	1.20	10.48	0.41	-	n
1,2,3,6,7,8-HxCDF	3710840	1.17 y	31:38	1.37	6.02	0.36	-	n
2,3,4,6,7,8-HxCDF	740786	1.47 n	32:19	1.24	1.33	0.39	-	n
1,2,3,7,8,9-HxCDF	1278300	1.28 y	33:10	1.33	2.14	0.37	-	n
Total HxCDF	21814203	1.24 y	29:37	1.28	38.03	0.38	-	n
13C-1,2,3,6,7,8-HxCDD	86827000	1.31 y	32:33	0.73	116.39	0.26	60.0	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	0.97	*	0.43	-	n
1,2,3,6,7,8-HxCDD	968036	1.62 n	32:35	1.06	2.04	0.39	-	n
1,2,3,7,8,9-HxCDD	438039	1.57 n	32:53	1.28	0.77	0.33	-	n
Total HxCDD	13410093	1.34 y	30:47	1.10	27.17	0.38	-	n
13C-1,2,3,4,6,7,8-HpCDF	47638300	0.43 y	34:36	0.86	54.35	0.81	28.0	n
1,2,3,4,6,7,8-HpCDF	6657540	1.02 y	34:37	1.29	21.07	0.77	-	n
1,2,3,4,7,8,9-HpCDF	2518560	0.97 y	35:55	1.14	9.03	0.87	-	n
Total HpCDF	12636513	1.02 y	34:37	1.21	41.74	0.82	-	n
13C-1,2,3,4,6,7,8-HpCDD	44527600	1.12 y	35:32	0.75	58.09	0.37	29.9	n
1,2,3,4,6,7,8-HpCDD	920094	1.05 y	35:33	1.00	4.02	0.61	-	n
Total HpCDD	1253175	1.14 y	34:54	1.00	5.47	0.61	-	n
13C-OCDD	40159000	0.91 y	38:21	0.56	69.82	0.79	18.0	n
OCDF	7943860	0.87 y	38:27	1.44	53.39	1.79	-	n
OCDD	522418	0.78 y	38:21	1.11	4.55	1.32	-	n

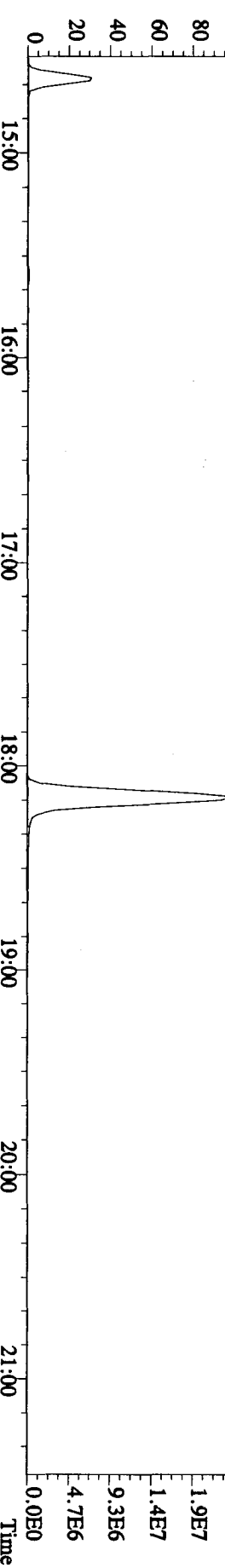
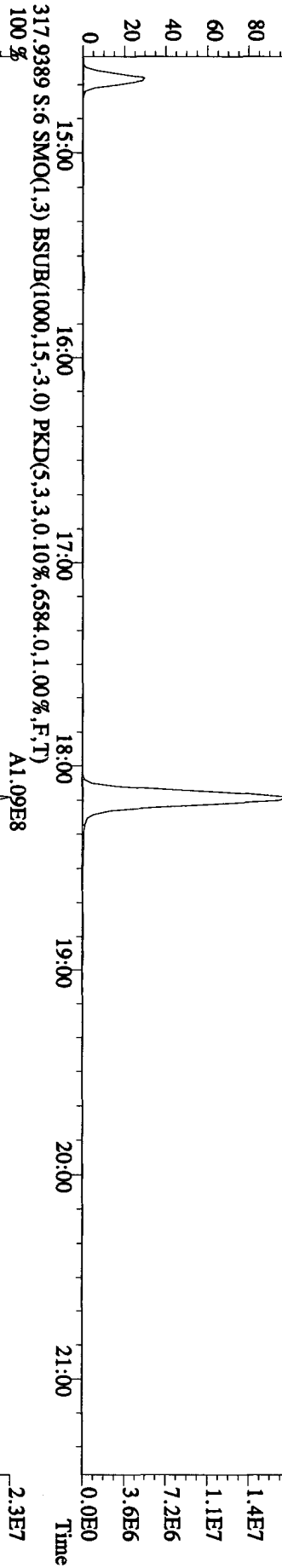
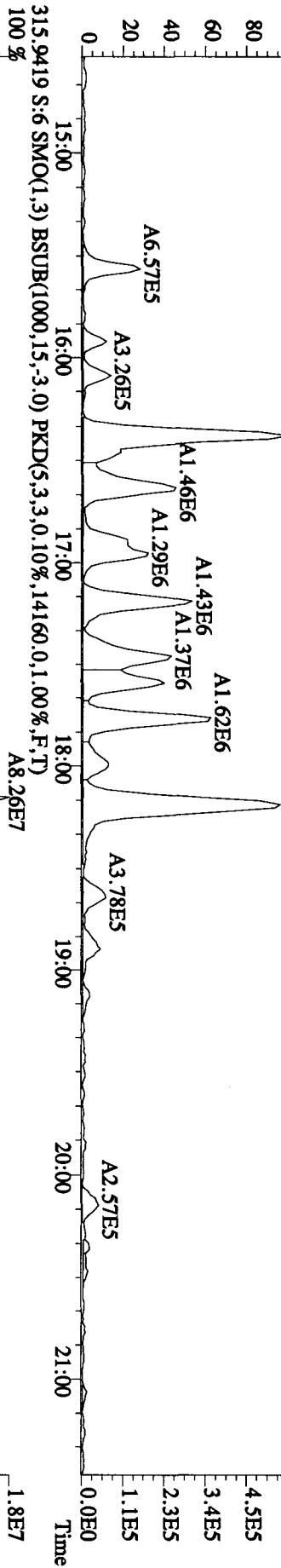
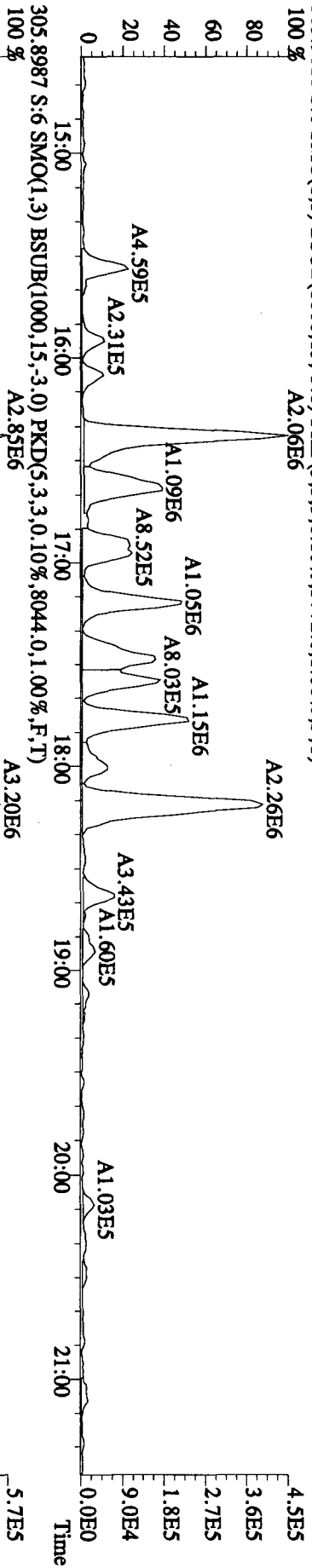
File:04J1A10A1D5 #1-411 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE

Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX

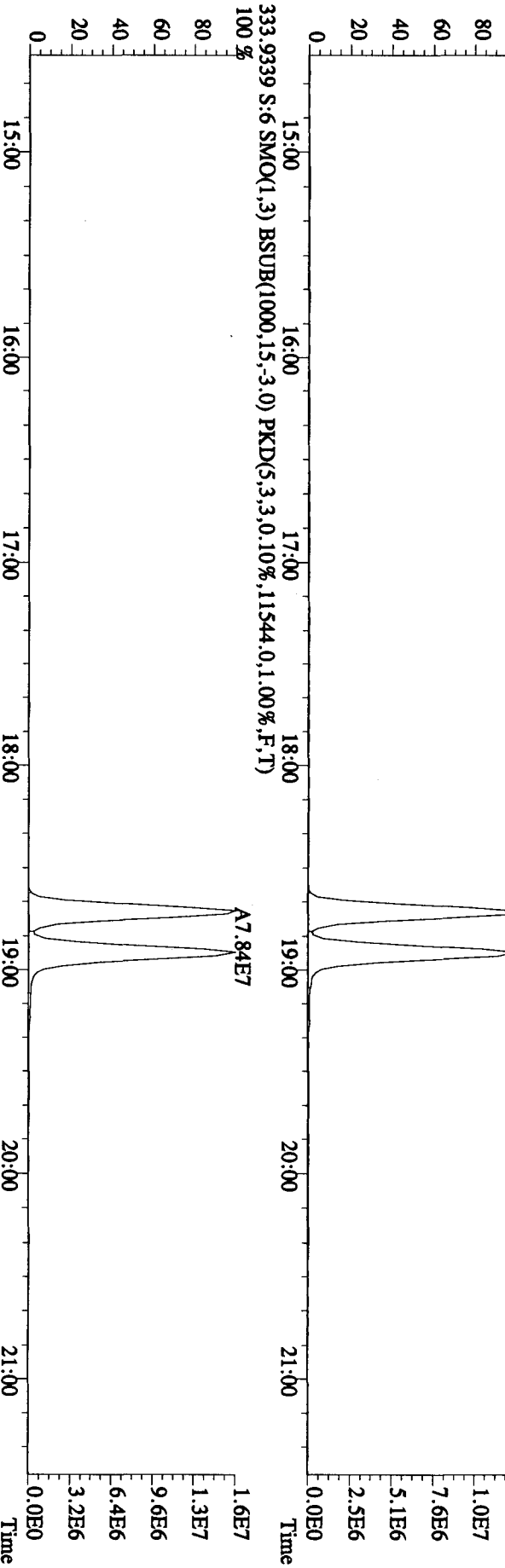
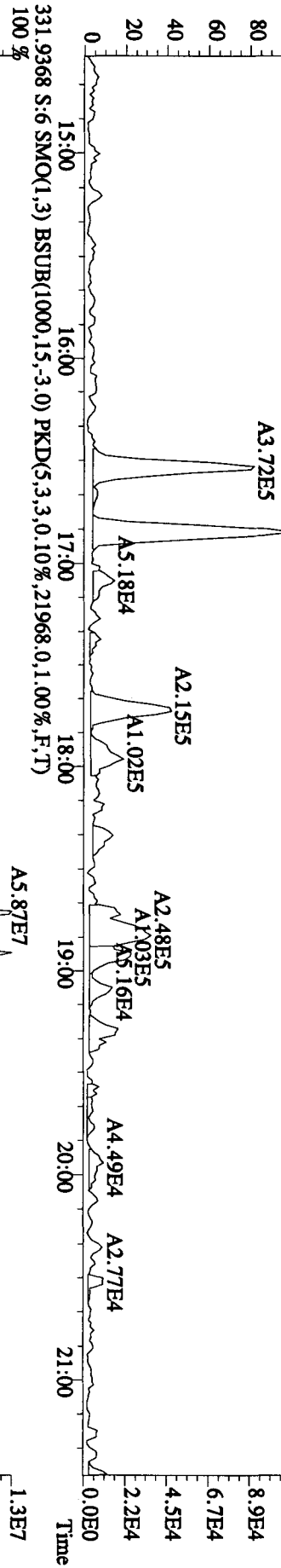
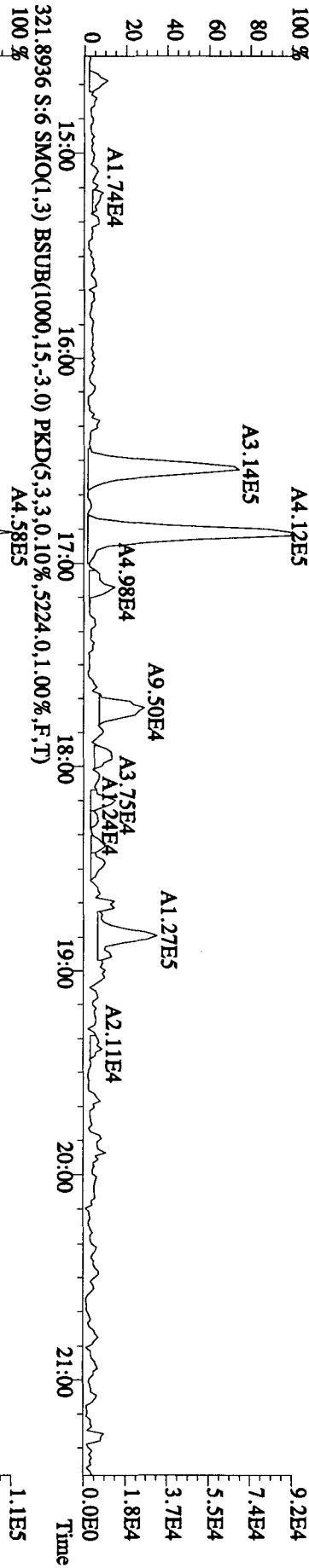
Exp:DIOXIN

303.9016 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5772.0,1.00%,F,T)

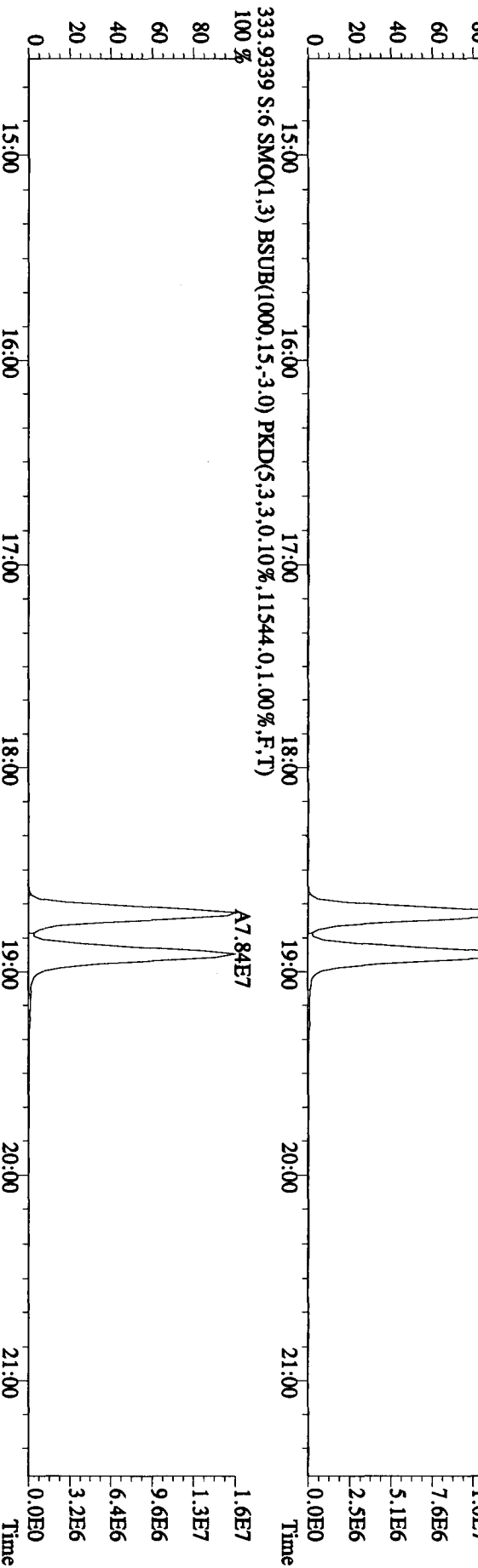
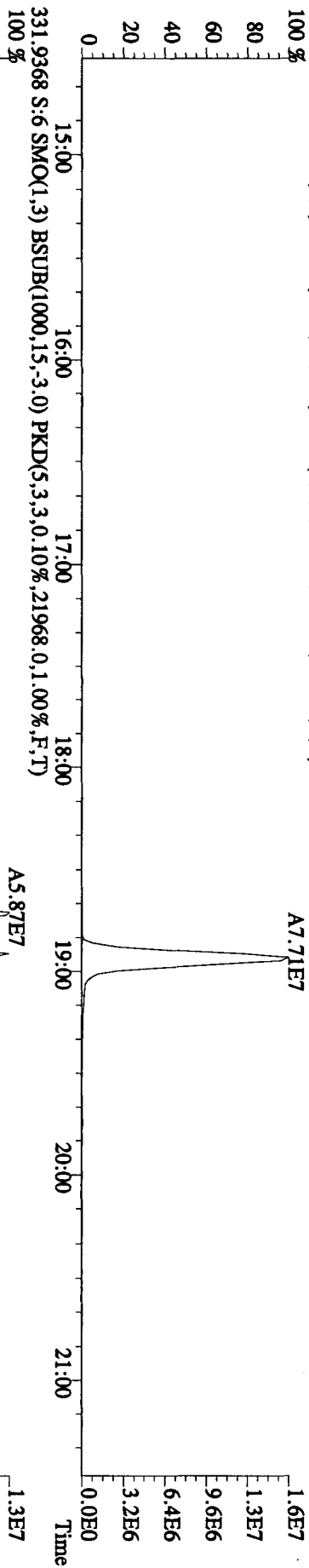
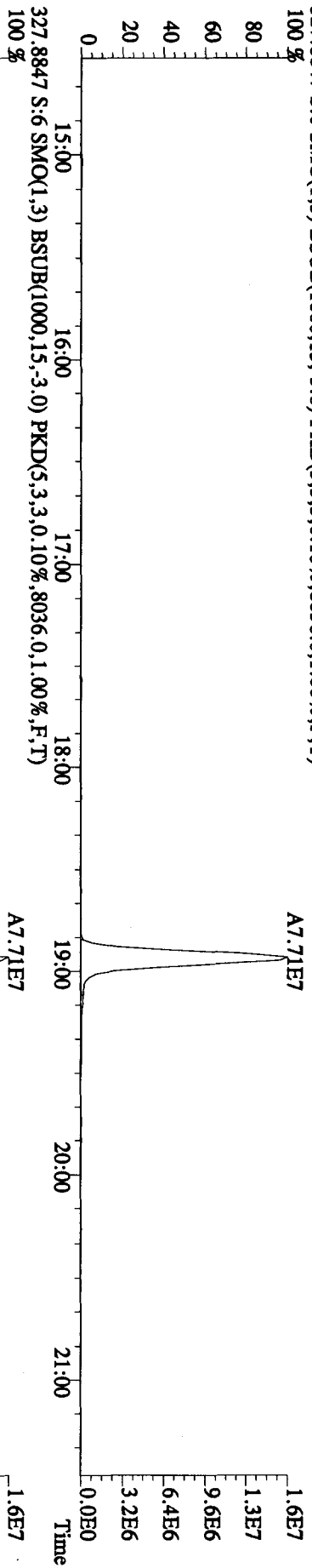
100 %



File:041A10A1D5 #1-411 Acq: 4-JAN-2010 17:51:48 GC EI + Voltage SIR 70SE
 Sample# Text:L:Q2K8-3-AC :G9L120491-3RX Exp:DIOXIN
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4436,0,1,00%,F,T)
 100 % A4.12E5



File:041A10A1D5 #1-411 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE
 Sample#6 Text:1:Q2K8-3-AC :G9L120491-3RX Exp:DIOXIN
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8036,0,1,00%,F,T)
 100 %



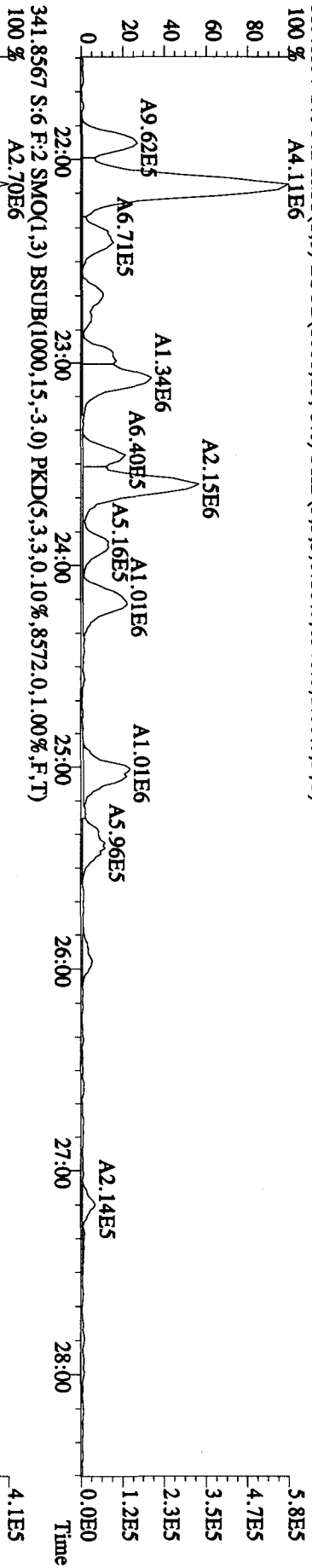
File:04JA10A1D5 #1.494 Acq: 4JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE

Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX

Exp:DIOXIN

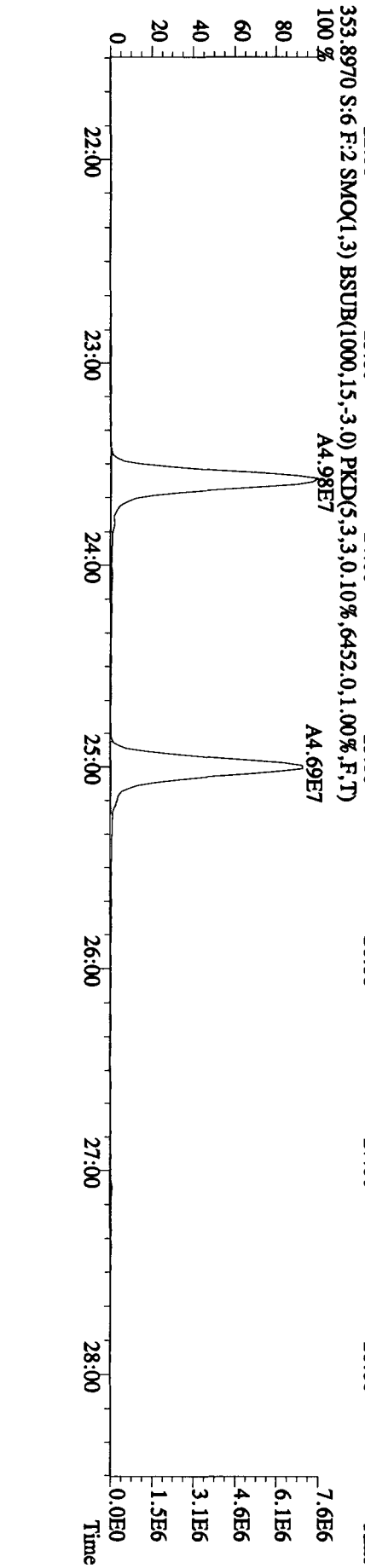
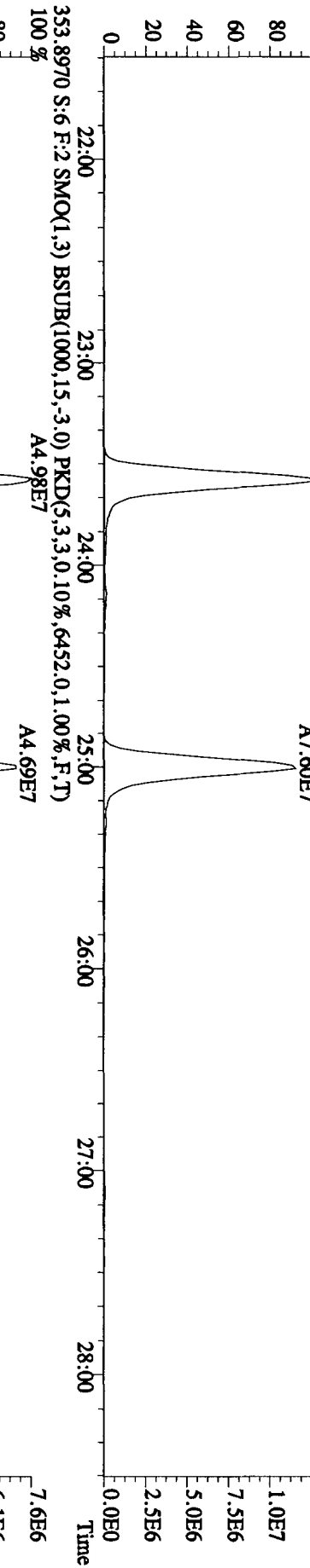
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6348,0.1,00%,F,T)

100 % A4.11E6

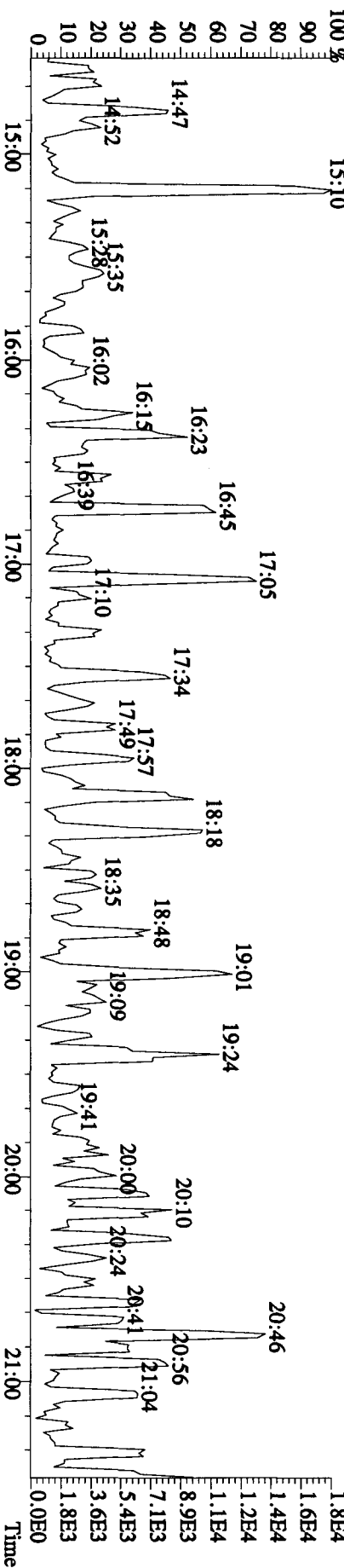
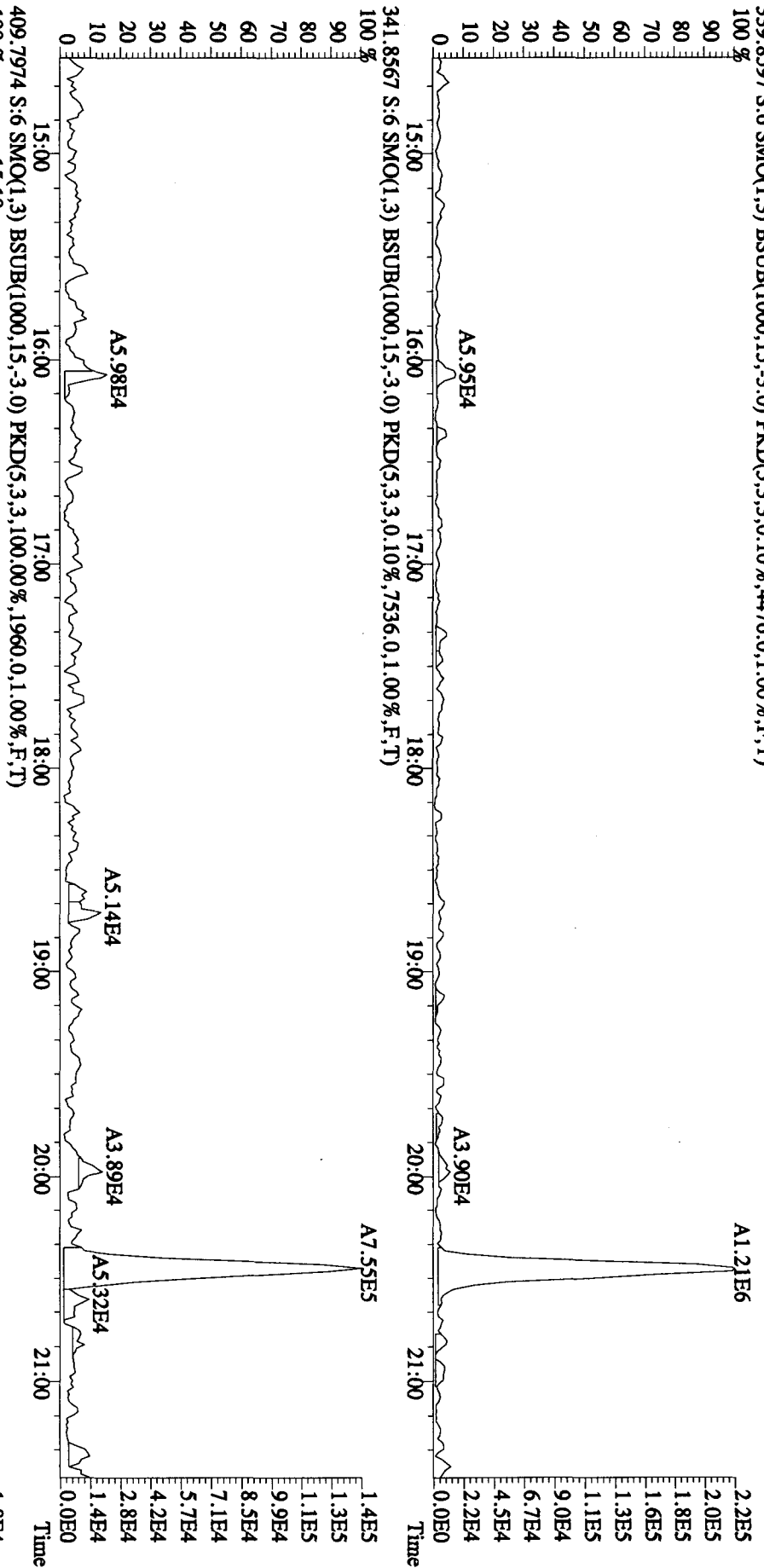


341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8572,0.1,00%,F,T)

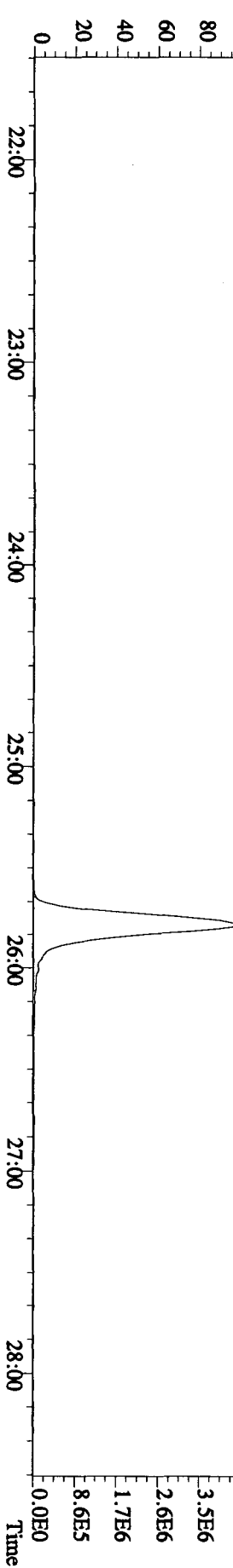
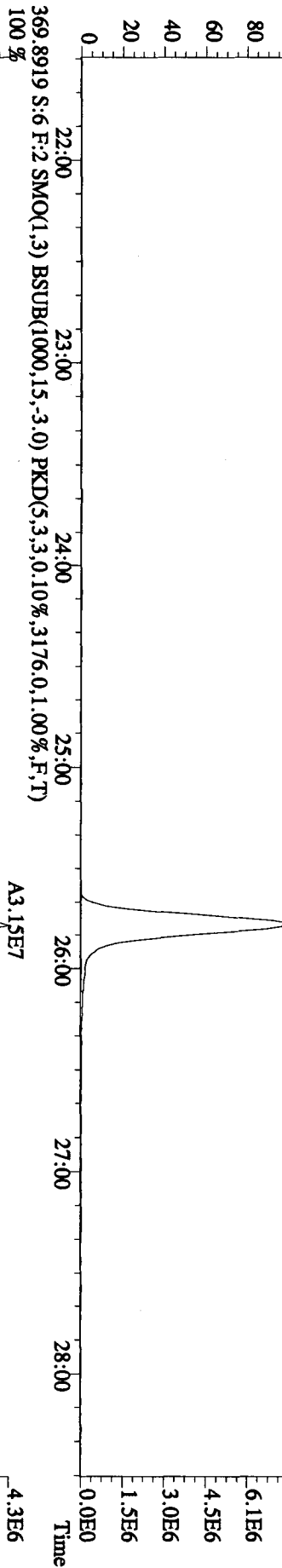
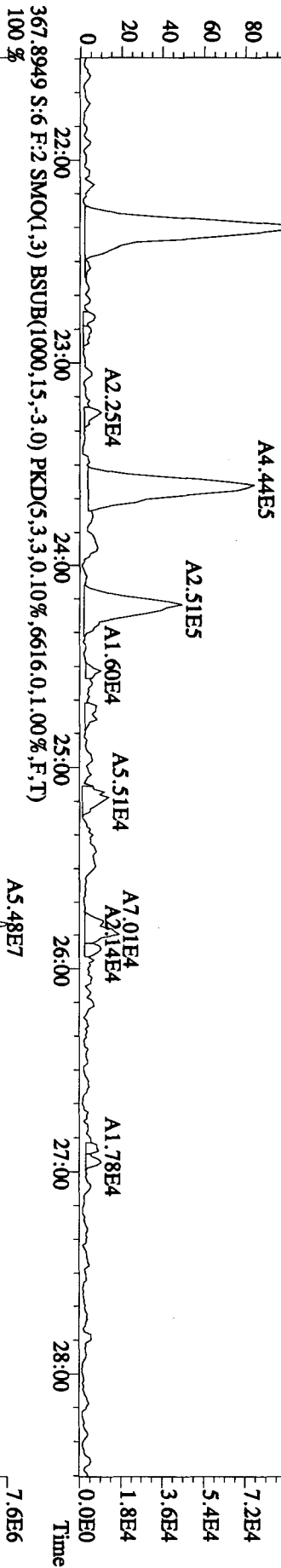
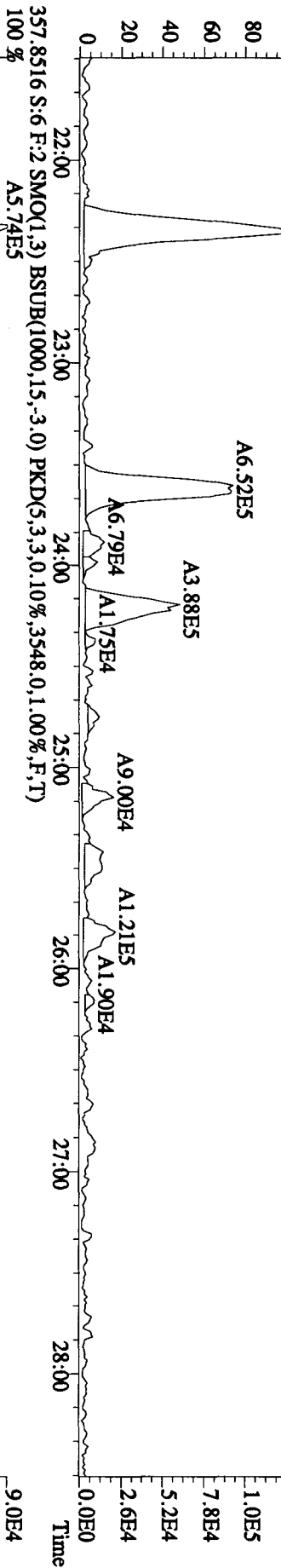
100 % A2.70E6



File:041A10A1D5 #1-411 Acq: 4-JAN-2010 17:51:48 GC EI + Voltage SIR 70SE
 Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX Exp:DIOXIN
 339.8597 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4476,0,1,00%,F,T)



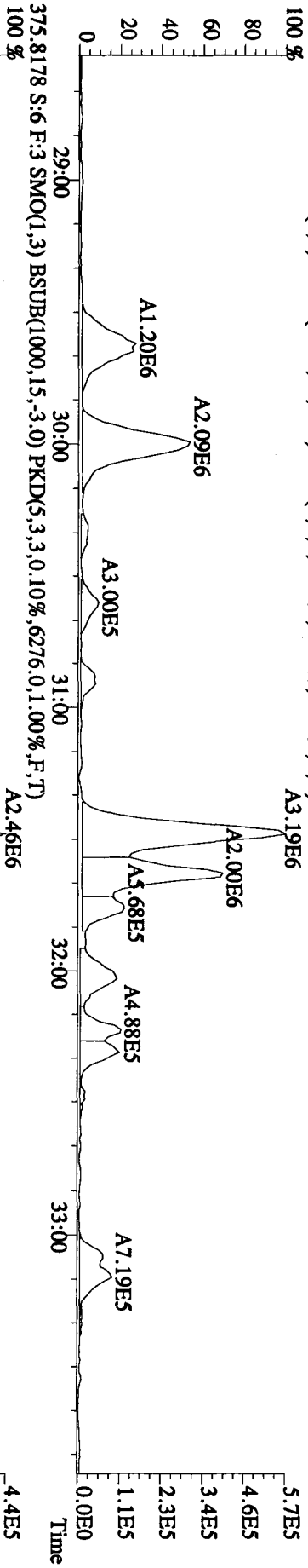
File:04JA10A1D5 #1-494 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE
 Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX Exp:DIOXIN
 355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4656,0,1.00%,F,T)
 100 % A8.77E5



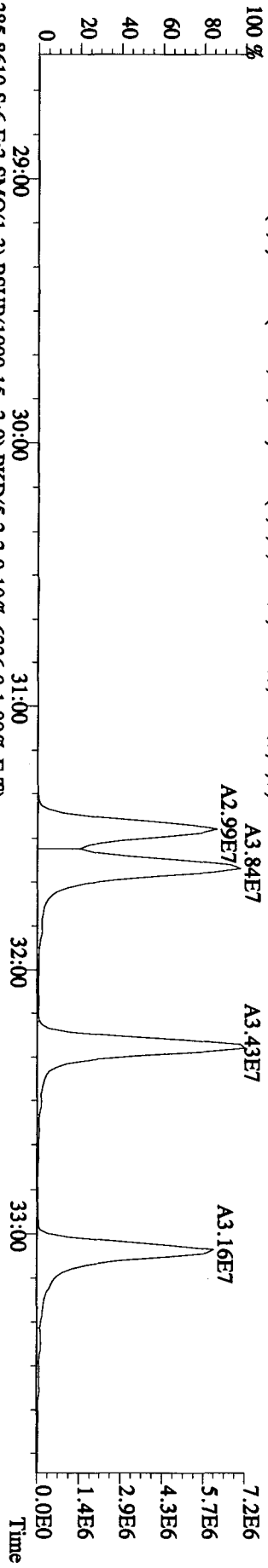
File:041A10A1D5 #1-362 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE

Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX Exp.:DIOXIN

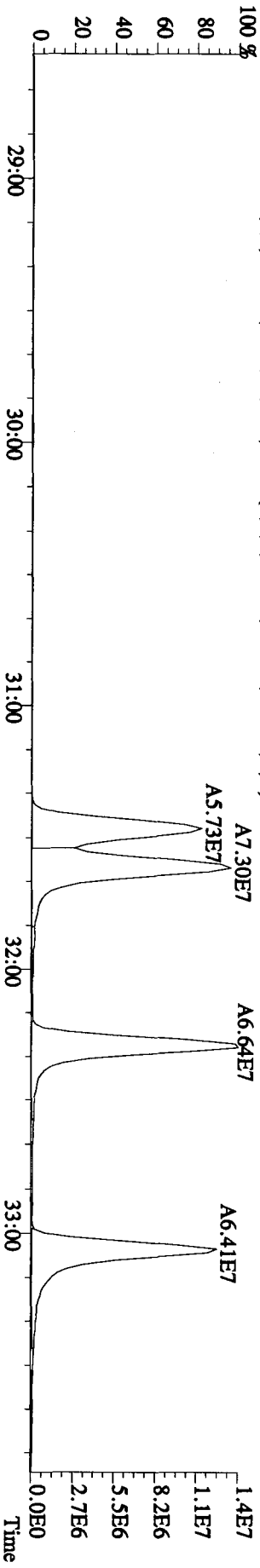
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8464,0.1,0.00%,F,T)



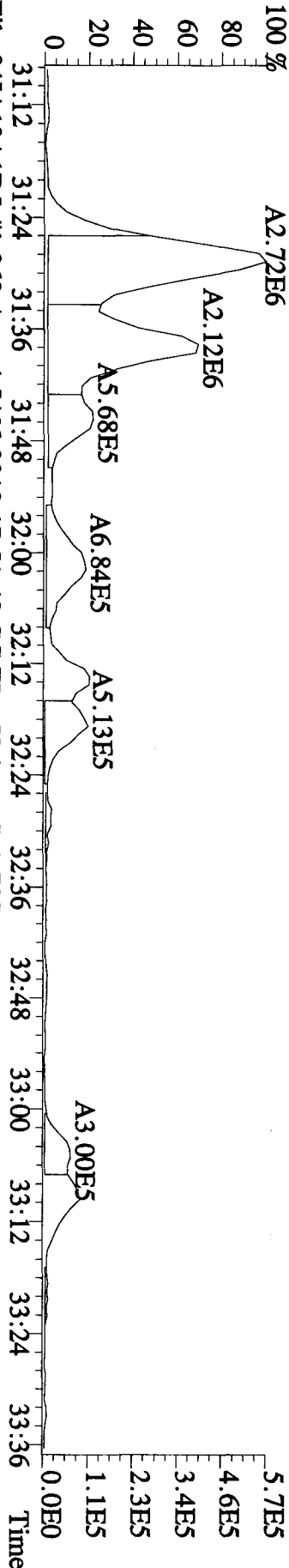
383.8639 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3664,0.1,0.00%,F,T)



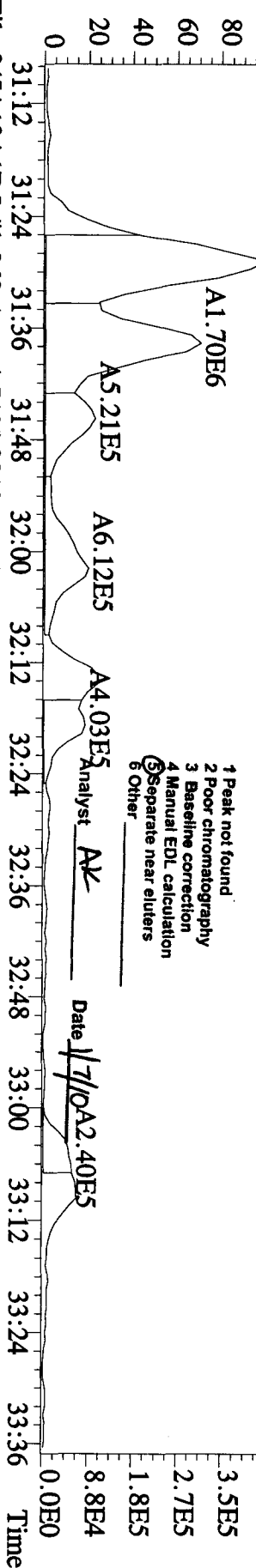
385.8610 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6336,0.1,0.00%,F,T)



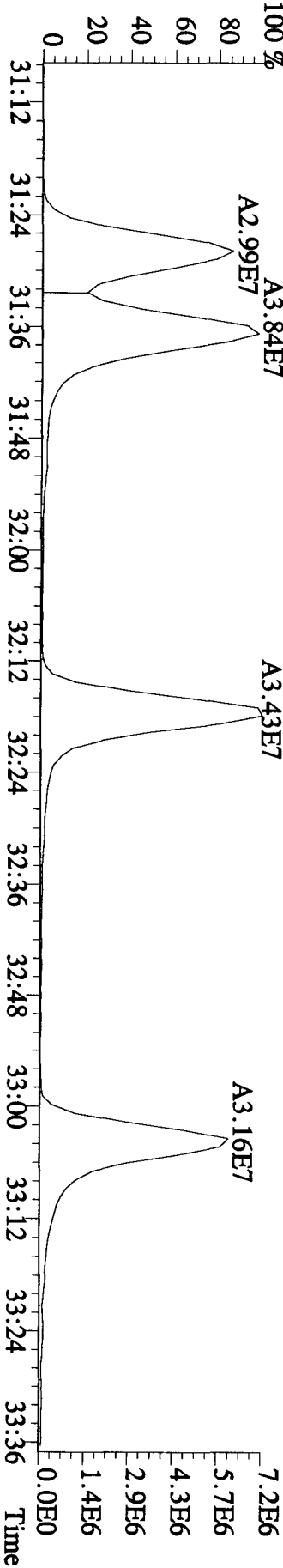
File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8464.0,1.00%,F,T) Exp:DIOXIN Nois >
 Sample Text:LQ2K8-3-AC :G9L120491-3RX



File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE
 375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6276.0,1.00%,F,T) Exp:DIOXIN Nois >
 Sample Text:LQ2K8-3-AC :G9L120491-3RX



File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE
 383.8639 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3664.0,1.00%,F,T) Exp:DIOXIN Nois >
 Sample Text:LQ2K8-3-AC :G9L120491-3RX



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

Analyst AK Date 1/7/10

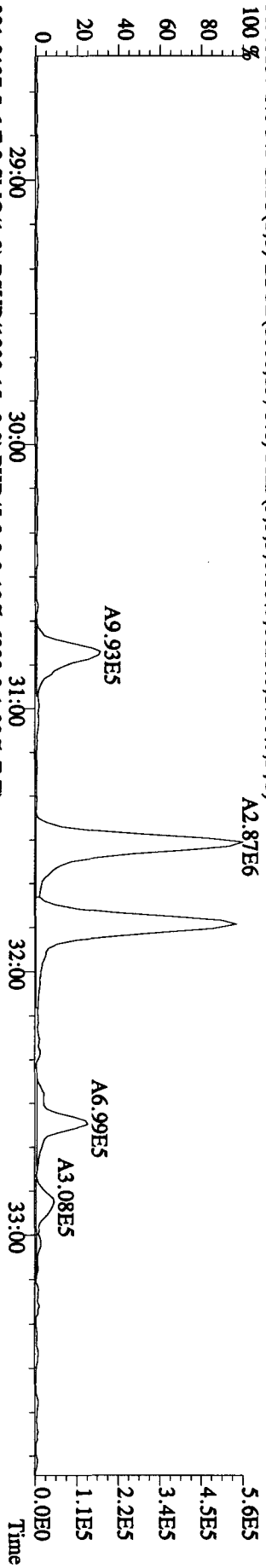
File:04JAI0A1D5 #1-362 Acq: 4JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE

Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX

Exp:DIOXIN

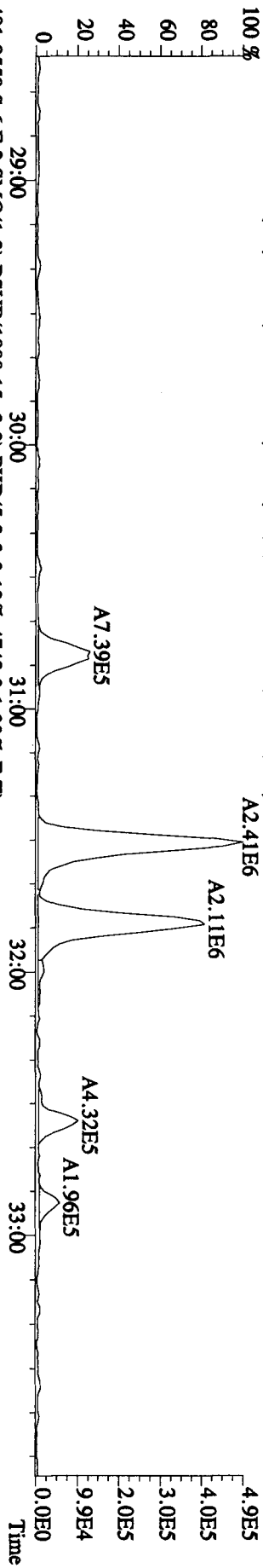
389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6028,0.1,0.0%,F,T)

100 %



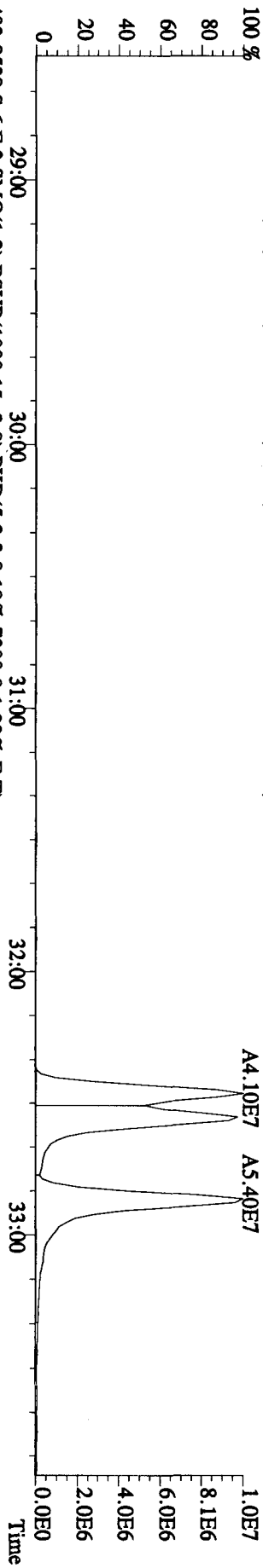
391.8127 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6332,0.1,0.0%,F,T)

100 %



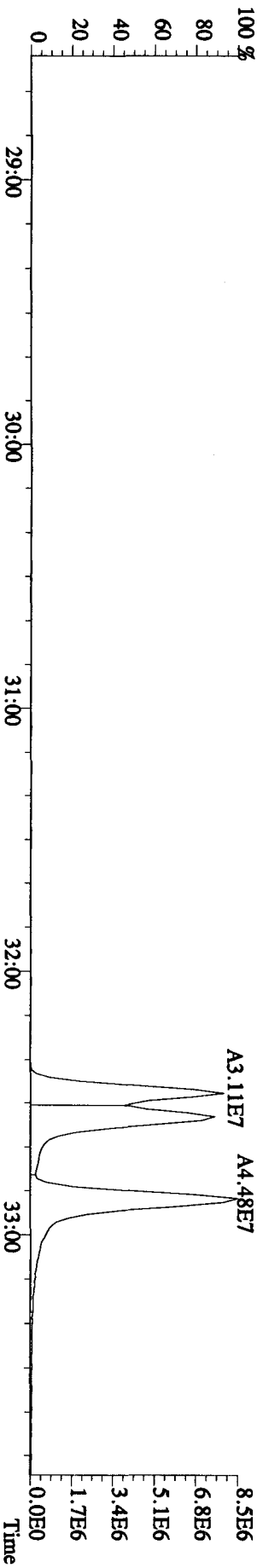
401.8559 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4748,0.1,0.0%,F,T)

100 %



403.8529 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7200,0.1,0.0%,F,T)

100 %



File: 04JA10A1D5 #1-362 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE

Sample#6 Text: LO2K8-3-AC :G9L120491-3R Exp:DIOXIN

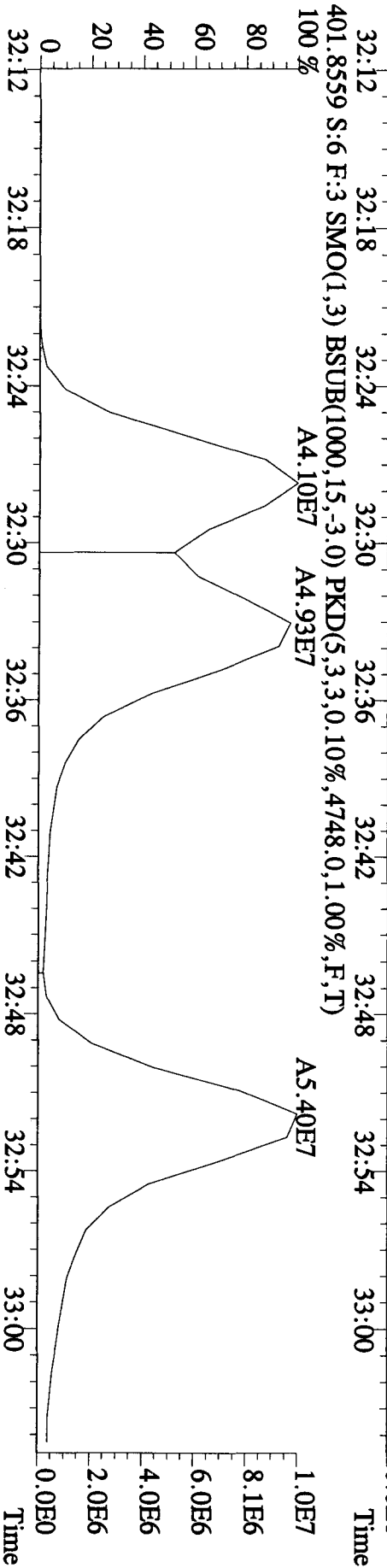
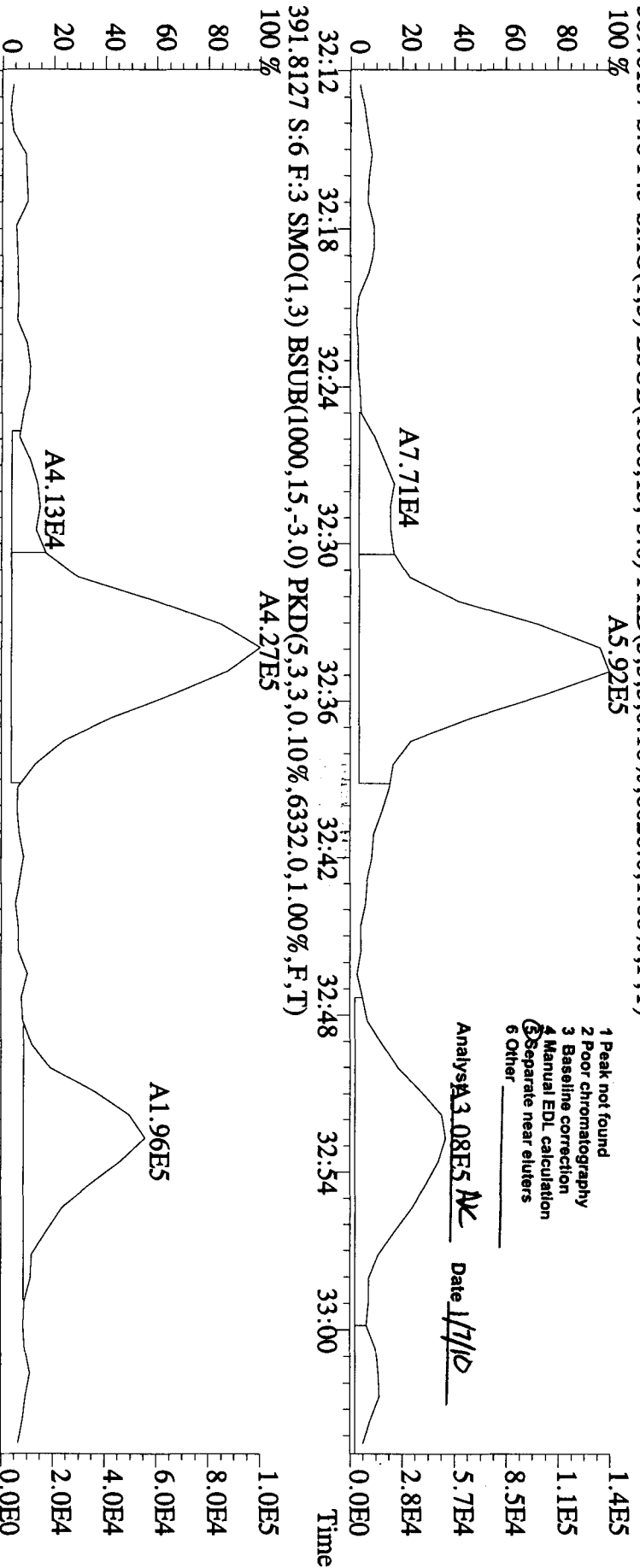
389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6028.0,1.00%,F,T)

100% A5.92E5

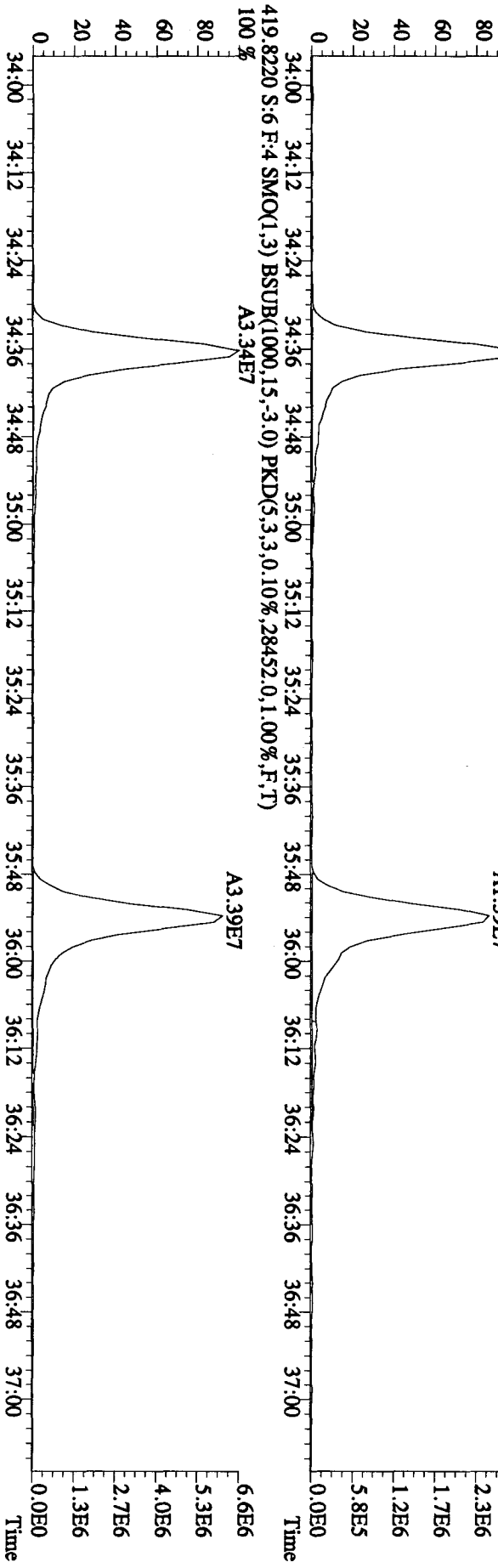
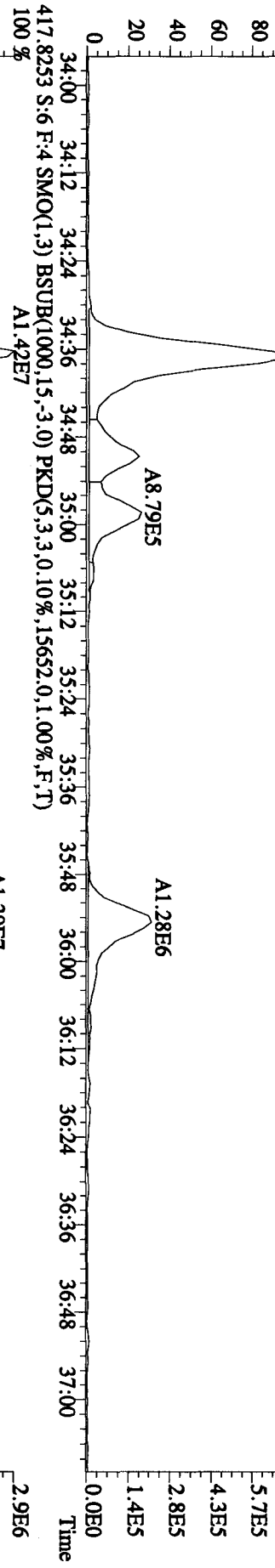
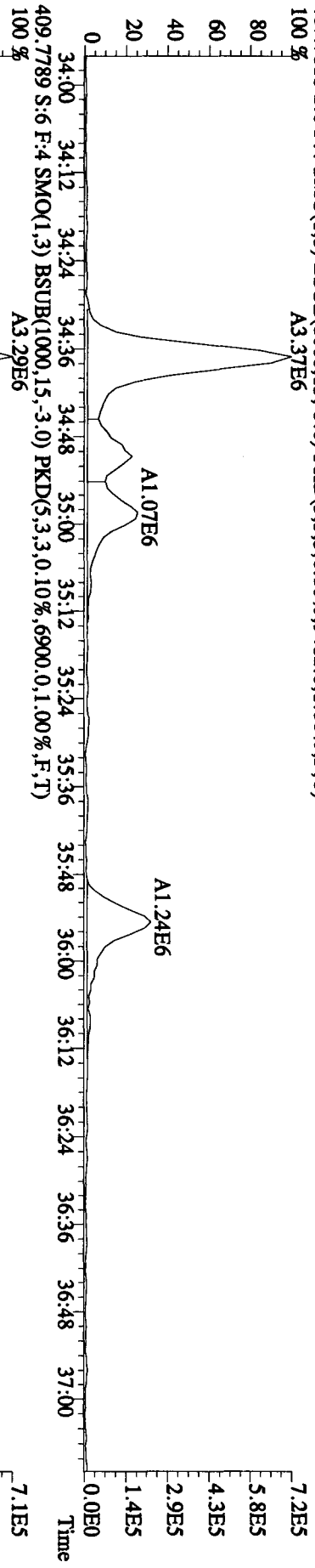
Manual Edit Codes

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

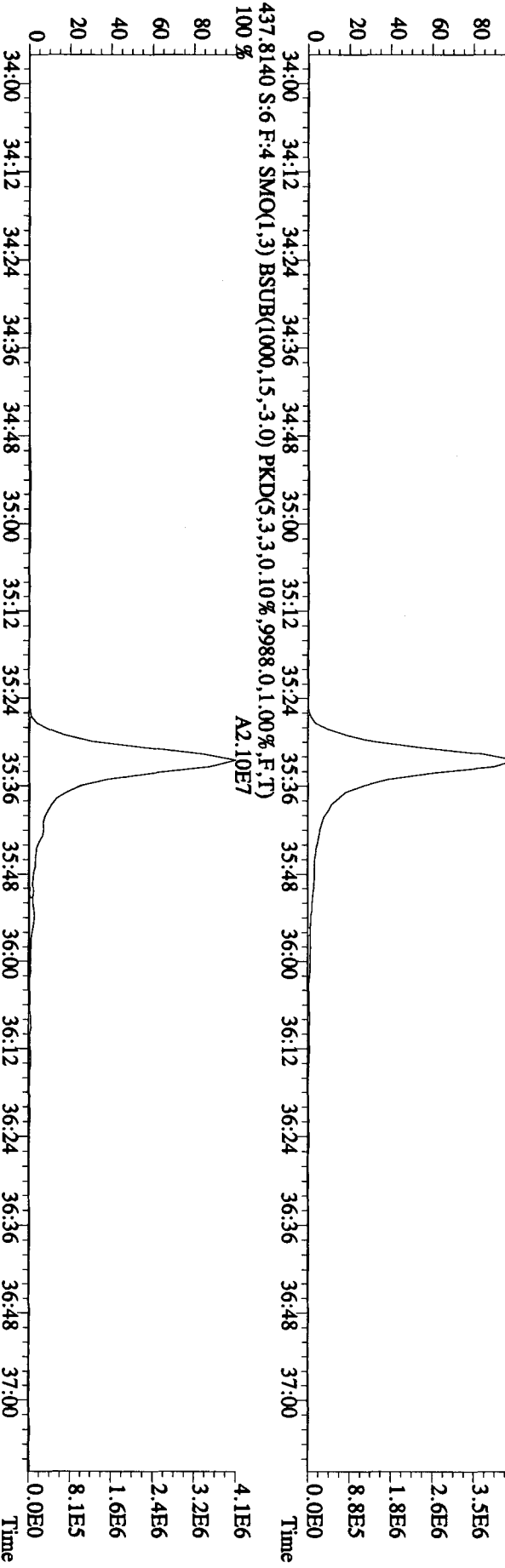
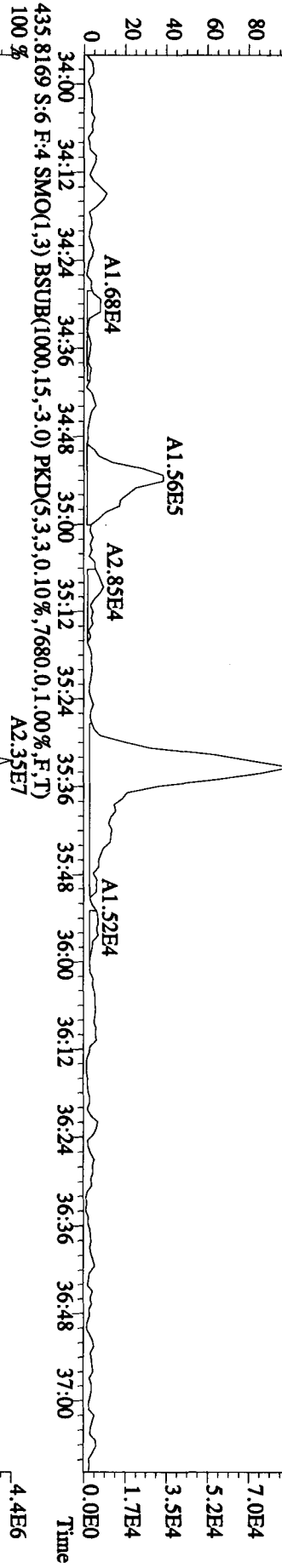
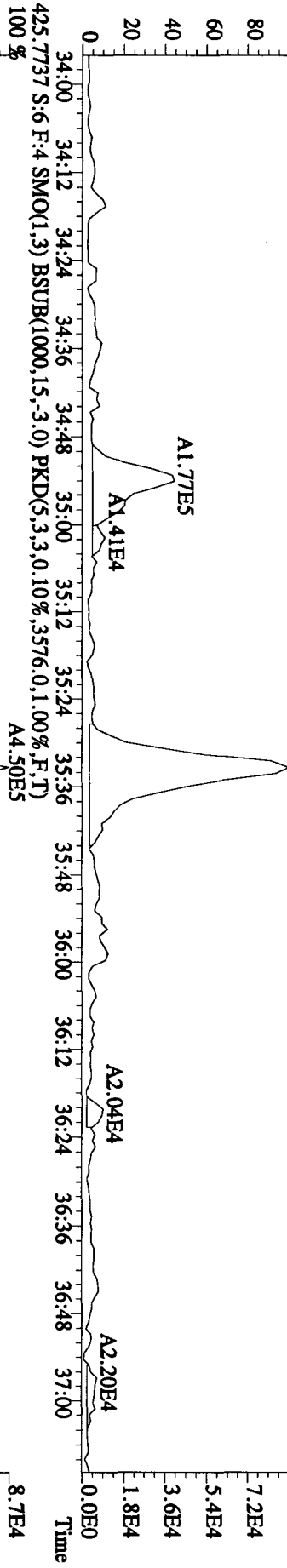
Analysis: A3.08E5 AK Date: 1/7/10



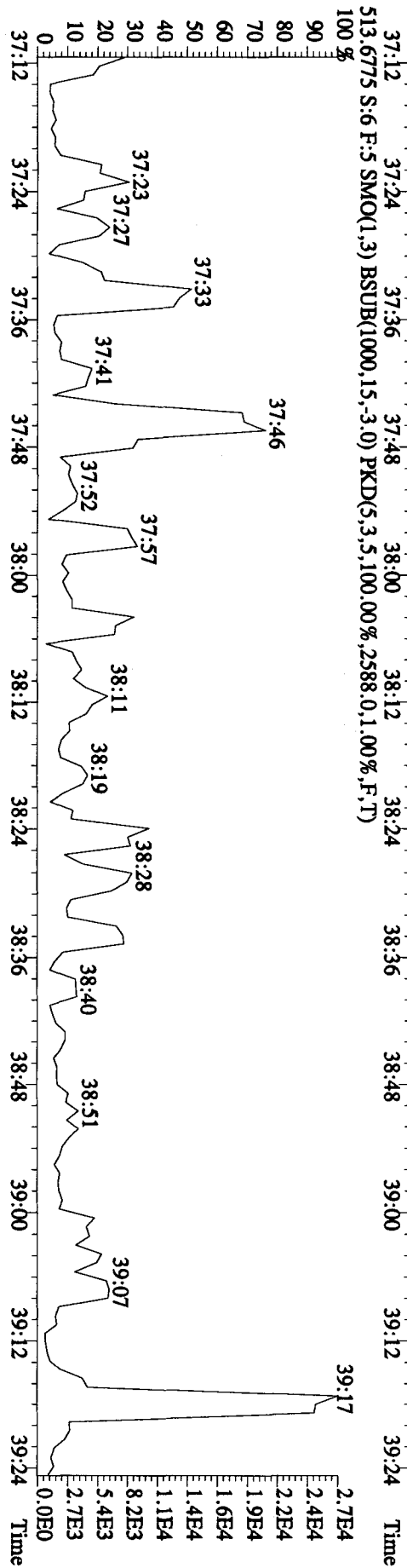
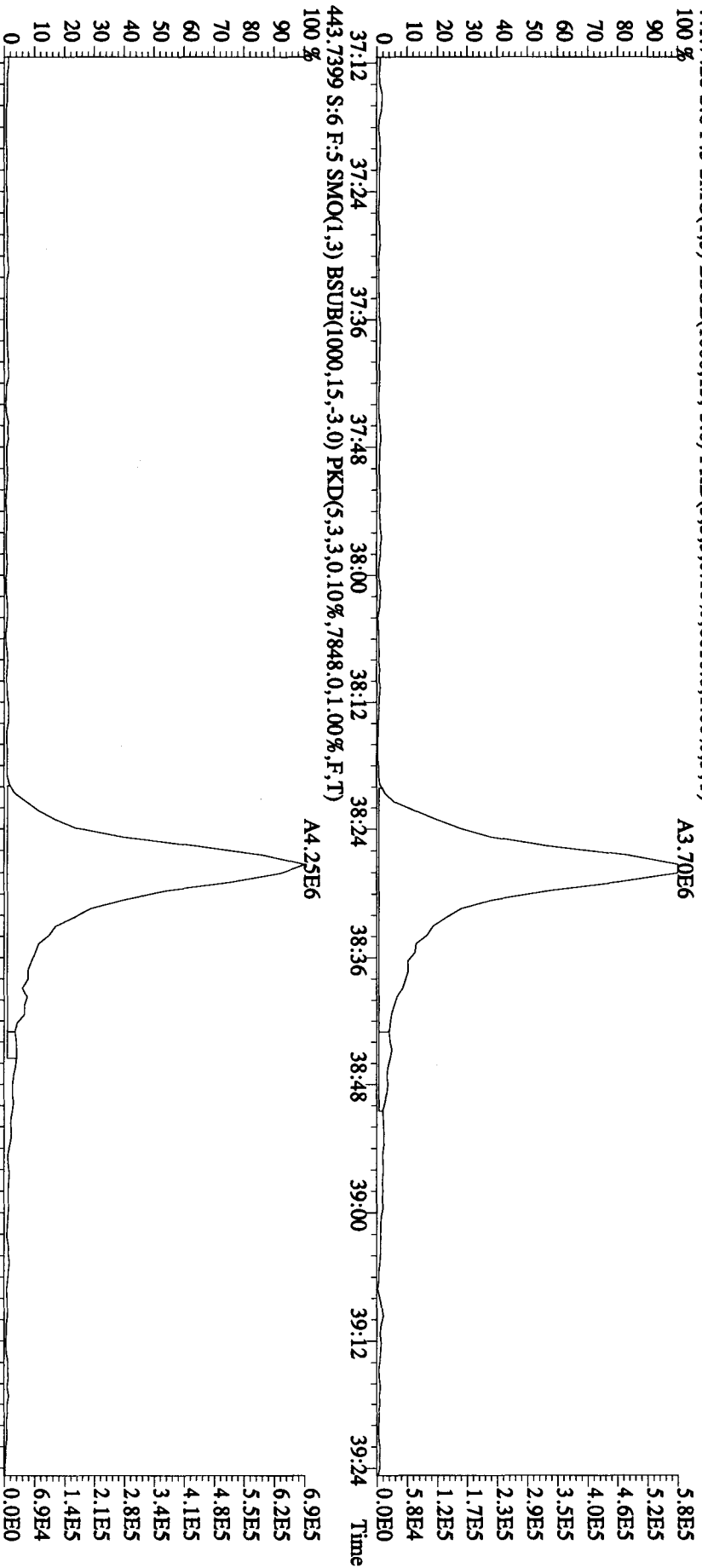
File:04JA10A1D5 #1-228 Acq: 4-JAN-2010 17:51:48 GC EI + Voltage SIR 70SE
 Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX Exp.:DIOXIN
 407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9412.0,1.00%,F,T)
 100 %



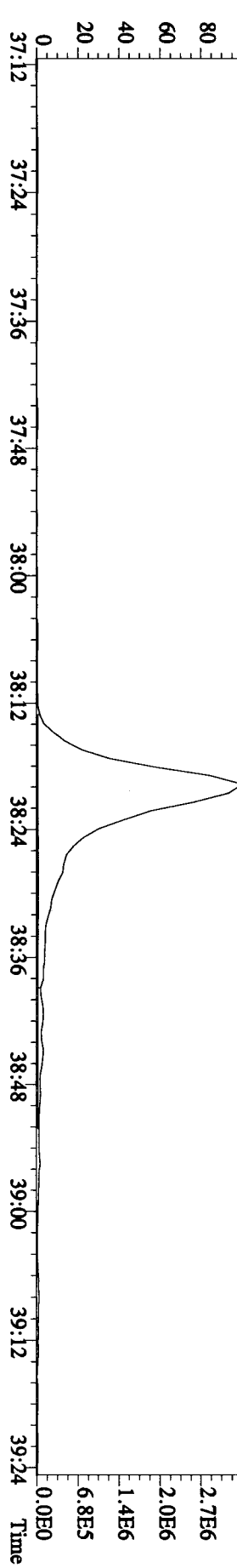
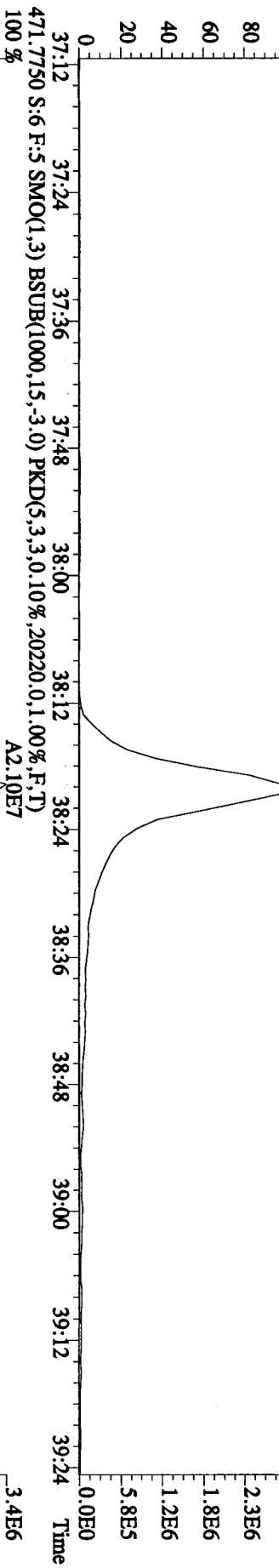
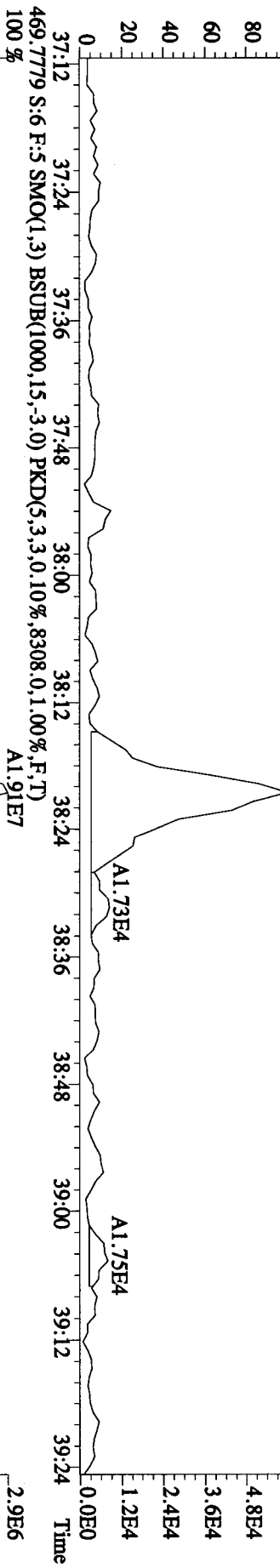
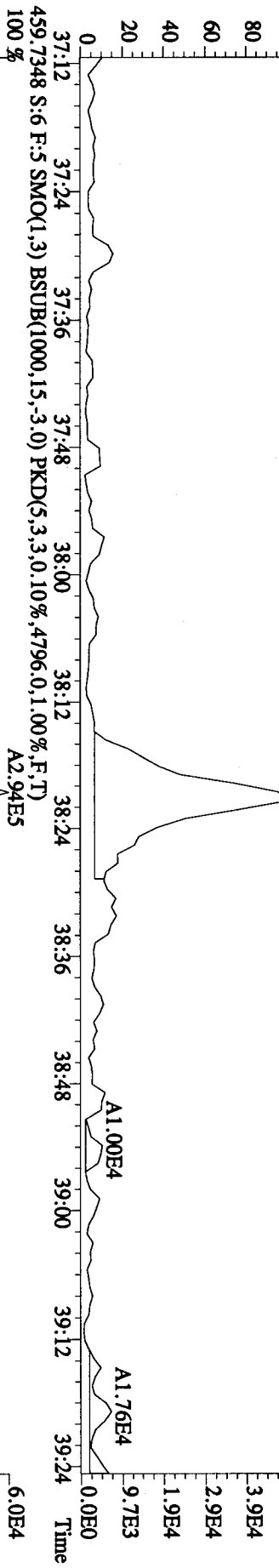
File:04JA10A1D5 #1-228 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE
 Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX Exp:DIOXIN
 423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5340,0.1,00%,F,T)
 100 %



File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE
 Sample#6 Text:LO2K8-3-AC :G9L120491-3RX Exp:DIOXIN
 441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3.0,10%,7848.0,1.00%,F,T)



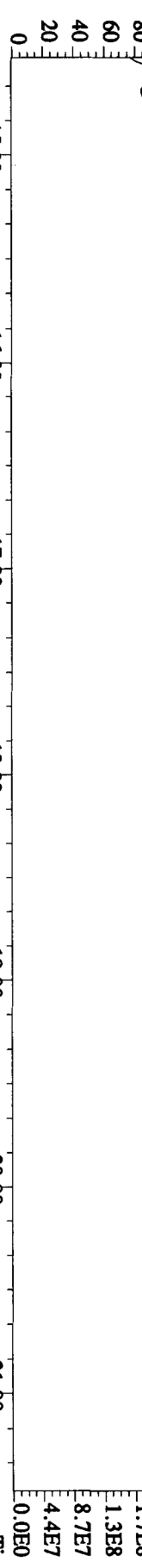
File:041A10A1D5 #1-161 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE
 Sample#6 Text:LOZK8-3-AC :G9L120491-3RX Exp:DIOXIN
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3128,0,1,00%,F,T)
 100 % A2.29E5



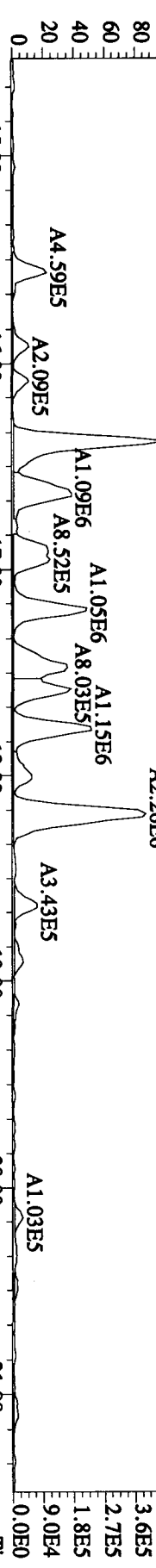
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE

Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX Exp:DIOXIN

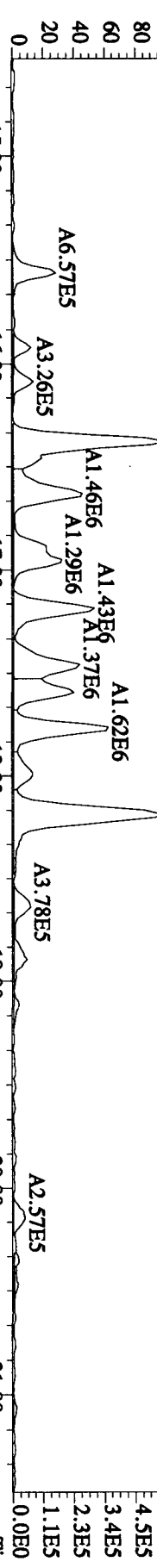
292.9825 S:6 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T) 100% 14:45 15:30 15:57 16:30 17:01 17:27 18:04 18:56 19:22 19:46 20:33 21:13



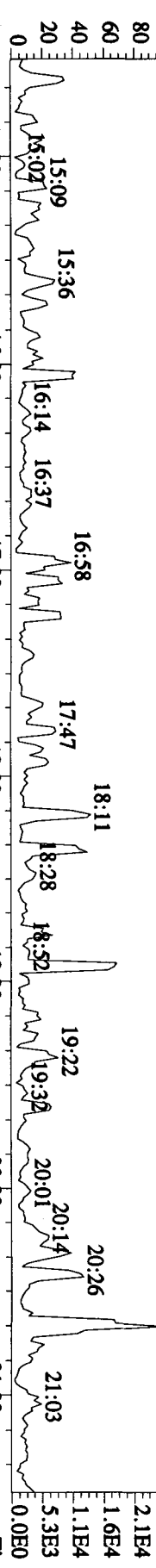
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5772,0.1,0.00%,F,T) 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00



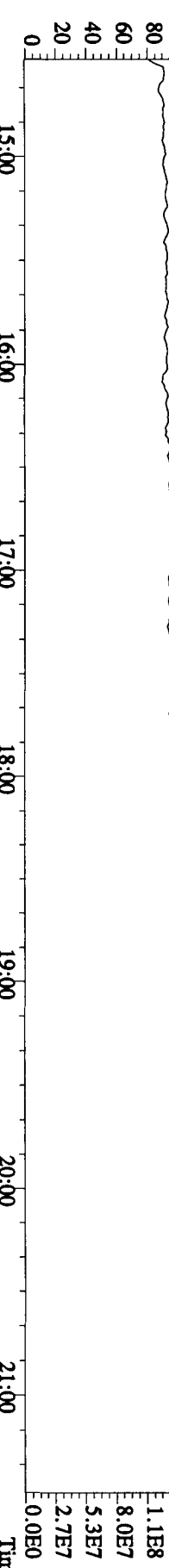
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8044,0.1,0.00%,F,T) 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00



375.8364 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2872,0.1,0.00%,F,T) 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00



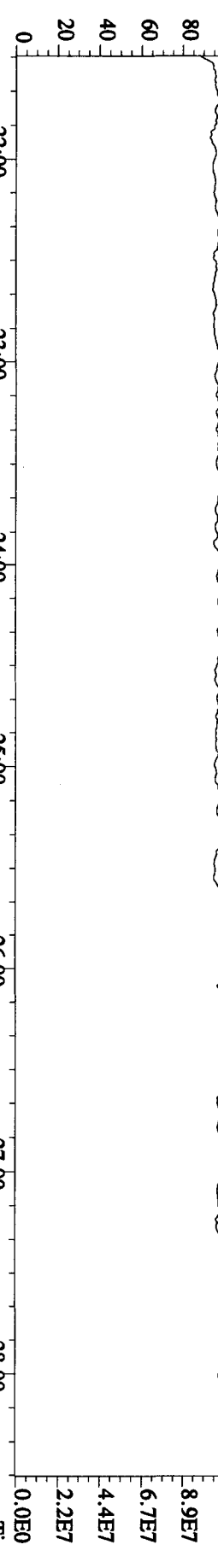
330.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00



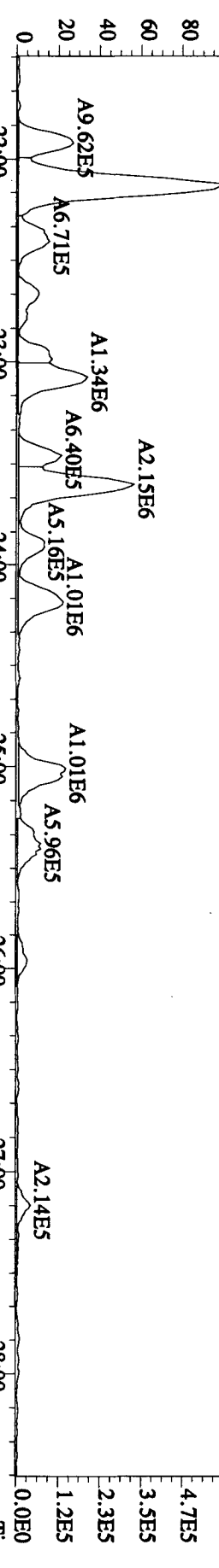
File:04JA10A1D5 #1-494 Acq: 4JAN-2010 17:51:48 GC EI + Voltage SIR 70SE

Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX Exp:DI0XIN

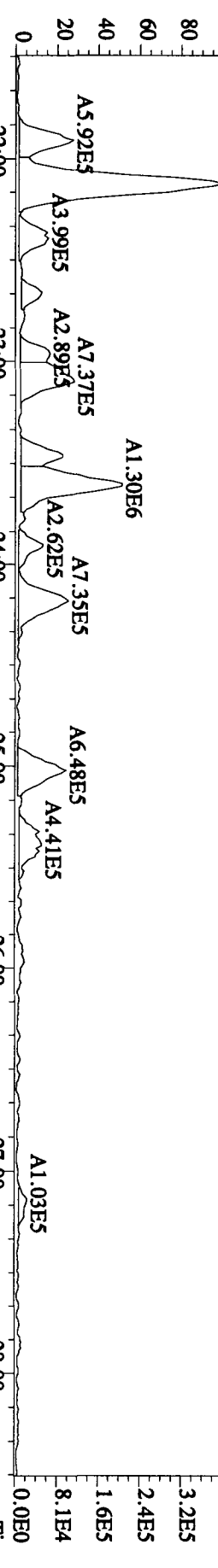
342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T) 100% 21:43 22:19 22:43 23:12 23:37 24:14 24:42 25:20 25:49 26:15 26:53 27:30 27:58 28:21



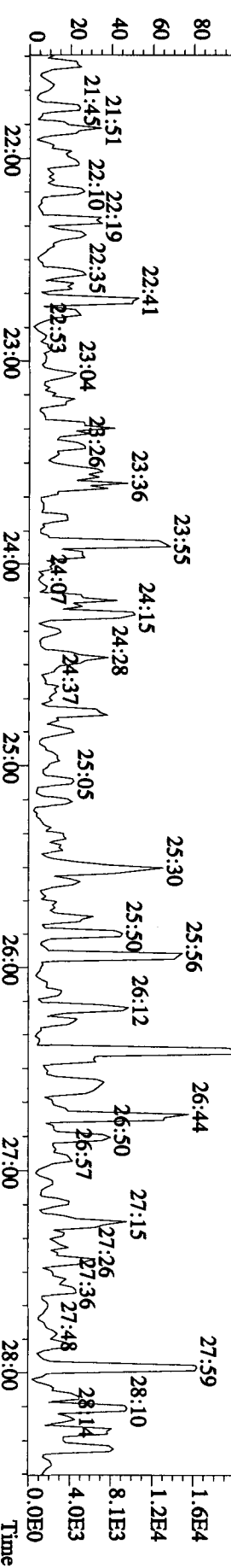
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6348,0,1,00%,F,T) 100% 22:00 23:00 24:00 25:00 26:00 27:00 28:00



341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8572,0,1,00%,F,T) 100% 22:00 23:00 24:00 25:00 26:00 27:00 28:00



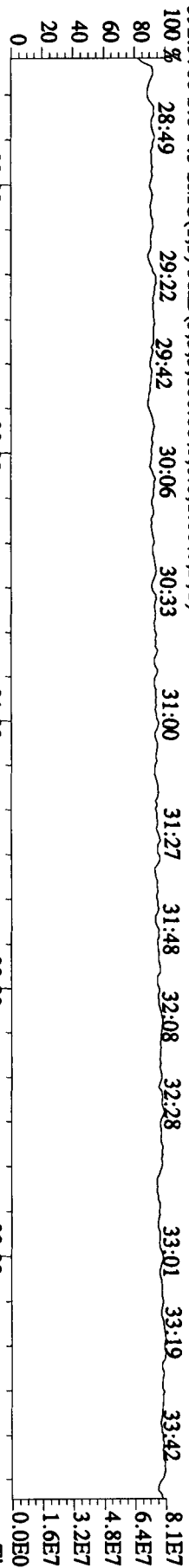
409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,2448,0,1,00%,F,T) 100% 22:00 23:00 24:00 25:00 26:00 27:00 28:00



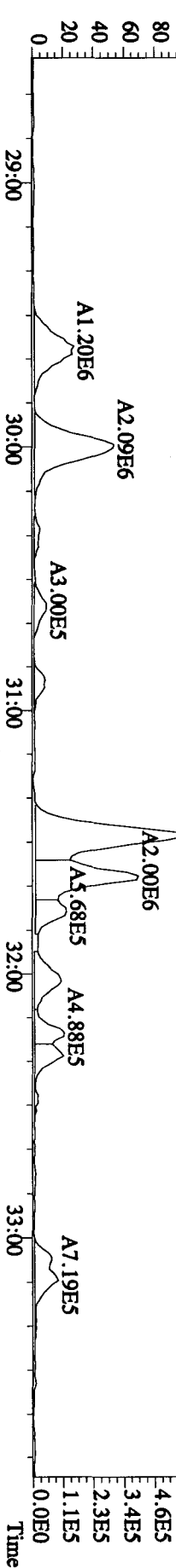
File:04JAI01A10A1D5 #1-362 Acq: 4JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE

Sample#6 Text:1Q2K8-3-AC :G9L120491-3RX Exp:DIOXIN

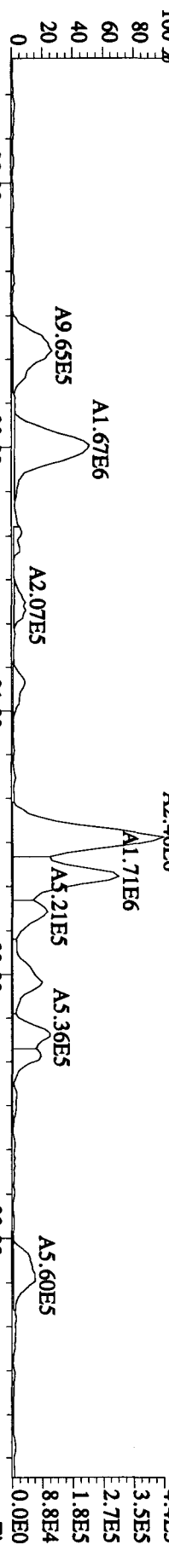
392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



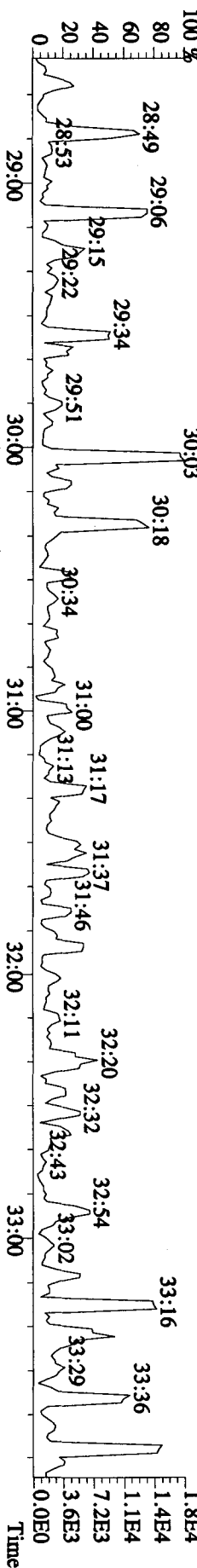
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8464.0,1.00%,F,T)



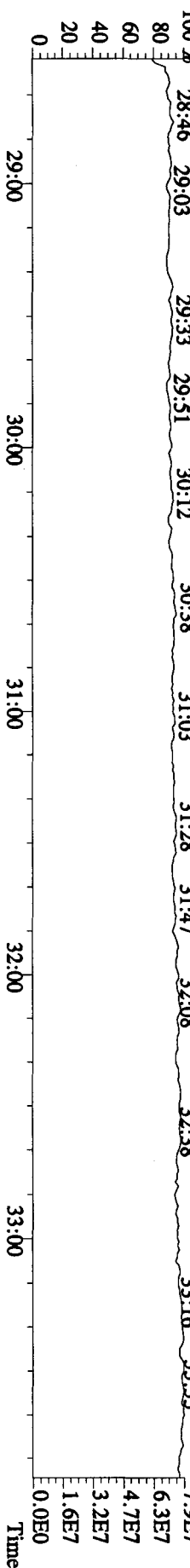
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6276.0,1.00%,F,T)



445.7555 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2240.0,1.00%,F,T)



380.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



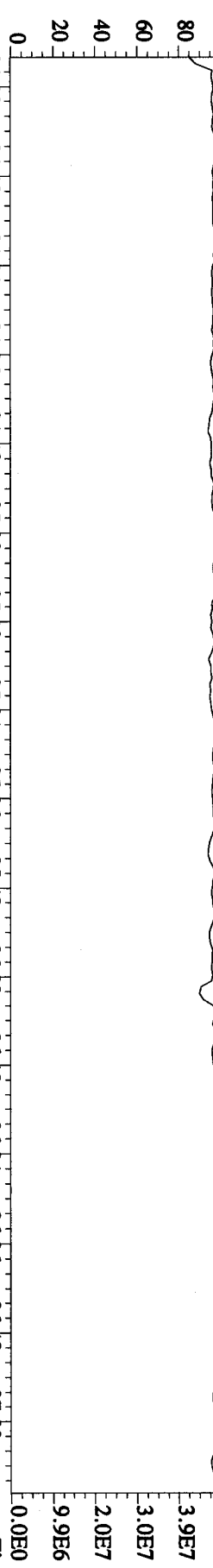
Sample#6 Text:LOZK8-3-AC :G9L120491-3RX Exp:DIOXIN

430.9728 S:6 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 34:08 34:20 34:30 34:42 34:53 35:07

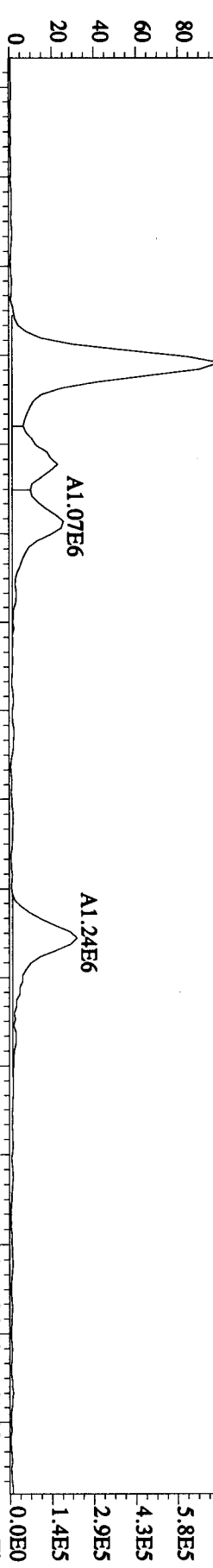
35:28 35:46 35:56 36:19 36:30 36:53

4.9E7 3.9E7 3.0E7 2.0E7 9.9E6 0.0E0



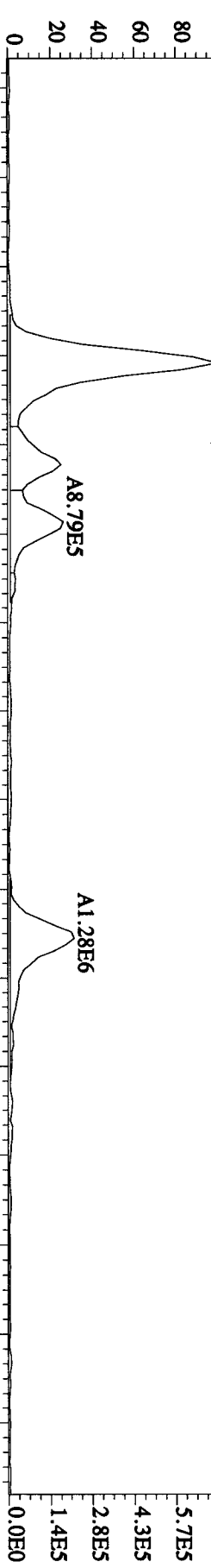
407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9412.0,1.00%,F,T)

7.2E5 5.8E5 4.3E5 2.9E5 1.4E5 0.0E0



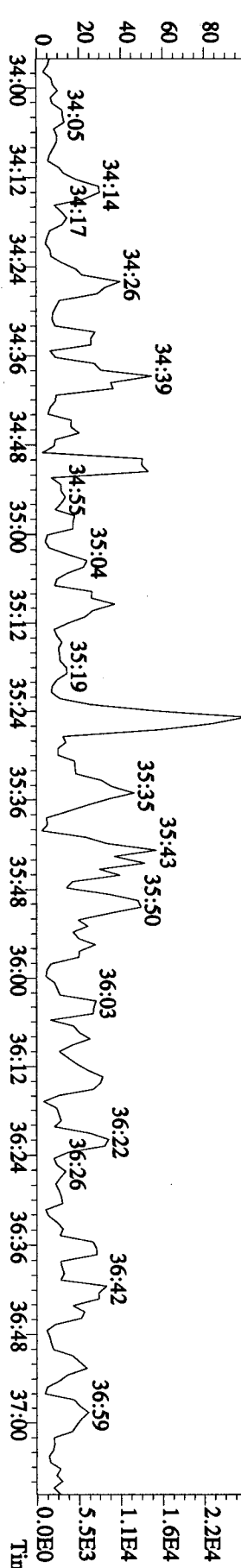
409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6900.0,1.00%,F,T)

7.1E5 5.7E5 4.3E5 2.8E5 1.4E5 0.0E0



479.7165 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,3344.0,1.00%,F,T)

2.7E4 2.2E4 1.6E4 1.1E4 5.5E3 0.0E0

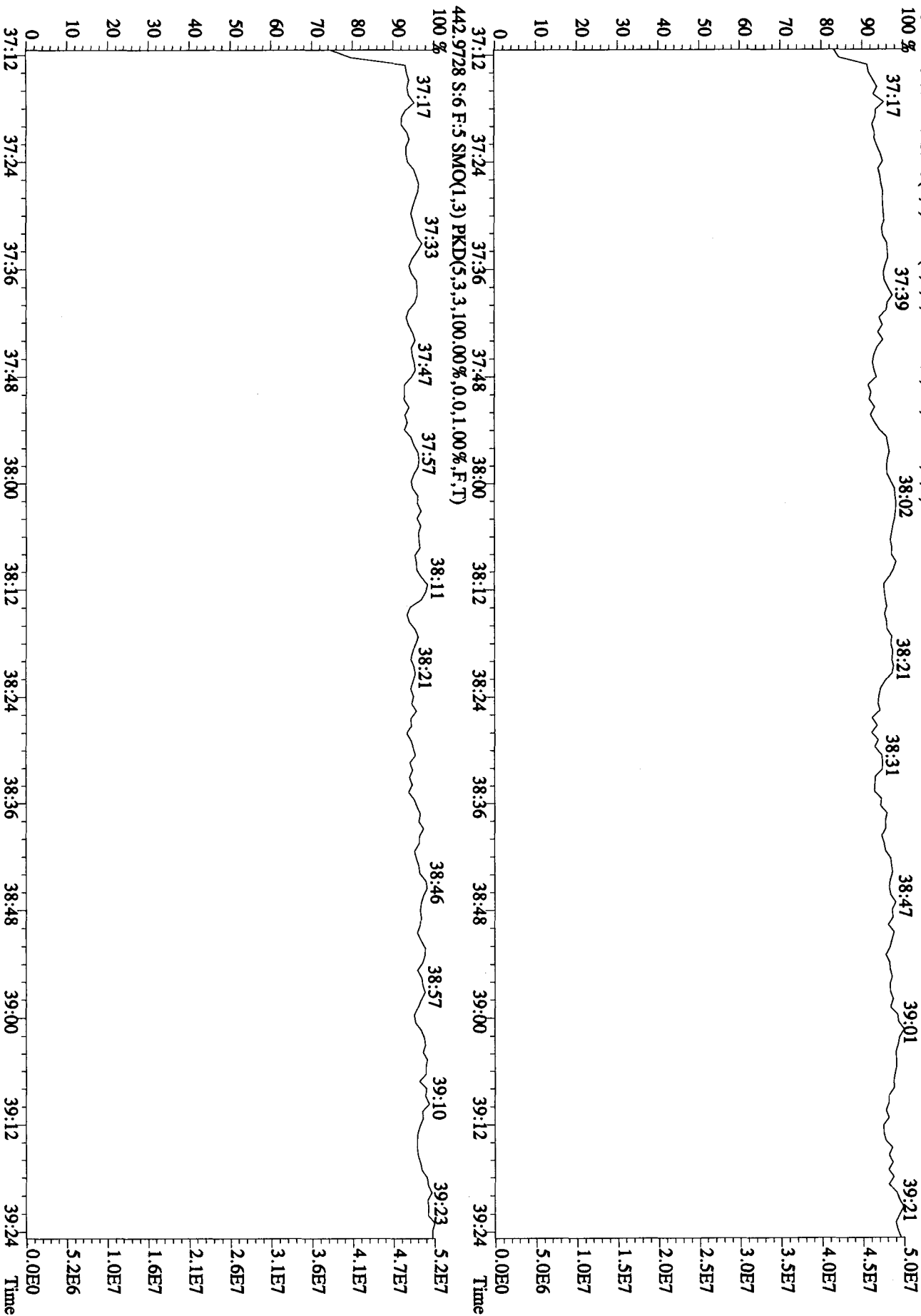


File:04JA10A10AIDS #1-161 Acq: 4-JAN-2010 17:51:48 GC EI+ Voltage SIR 70SE

Sample#6 Text:LQ2K8-3-AC :G9L120491-3RX Exp:DIOXIN

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

100 %



Run text: LQ2K8-3-AC Sample text: LQ2K8-3-AC :G9L120491-3RX
 Run #8 Filename: 05JA105D2 S: 7 I: 1 Results: 05JA105D2DB225
 Acquired: 5-JAN-10 13:55:02 Processed: 5-JAN-10 19:06:31
 Run: 05JA105D2 Analyte: DB225HRS Cal: DB2250104105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.31007g

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	106662300	0.77 y	14:18	-	4.78	-	-	n
13C-2,3,7,8-TCDF	193782800	0.81 y	15:24	1.66	105.92	0.62	54.6	n
2,3,7,8-TCDF	3019590	0.80 y	15:26	1.01	✓2.98	0.36	-	n
13C-2,3,7,8-TCDD	110734800	0.75 y	14:05	0.95	105.87	0.85	54.6	n
2,3,7,8-TCDD	*	* n	NotFnd	1.18	*	0.57	-	n
37Cl-2,3,7,8-TCDD	135129400	1.00 y	14:06	2.07	59.42	0.24	76.6	n

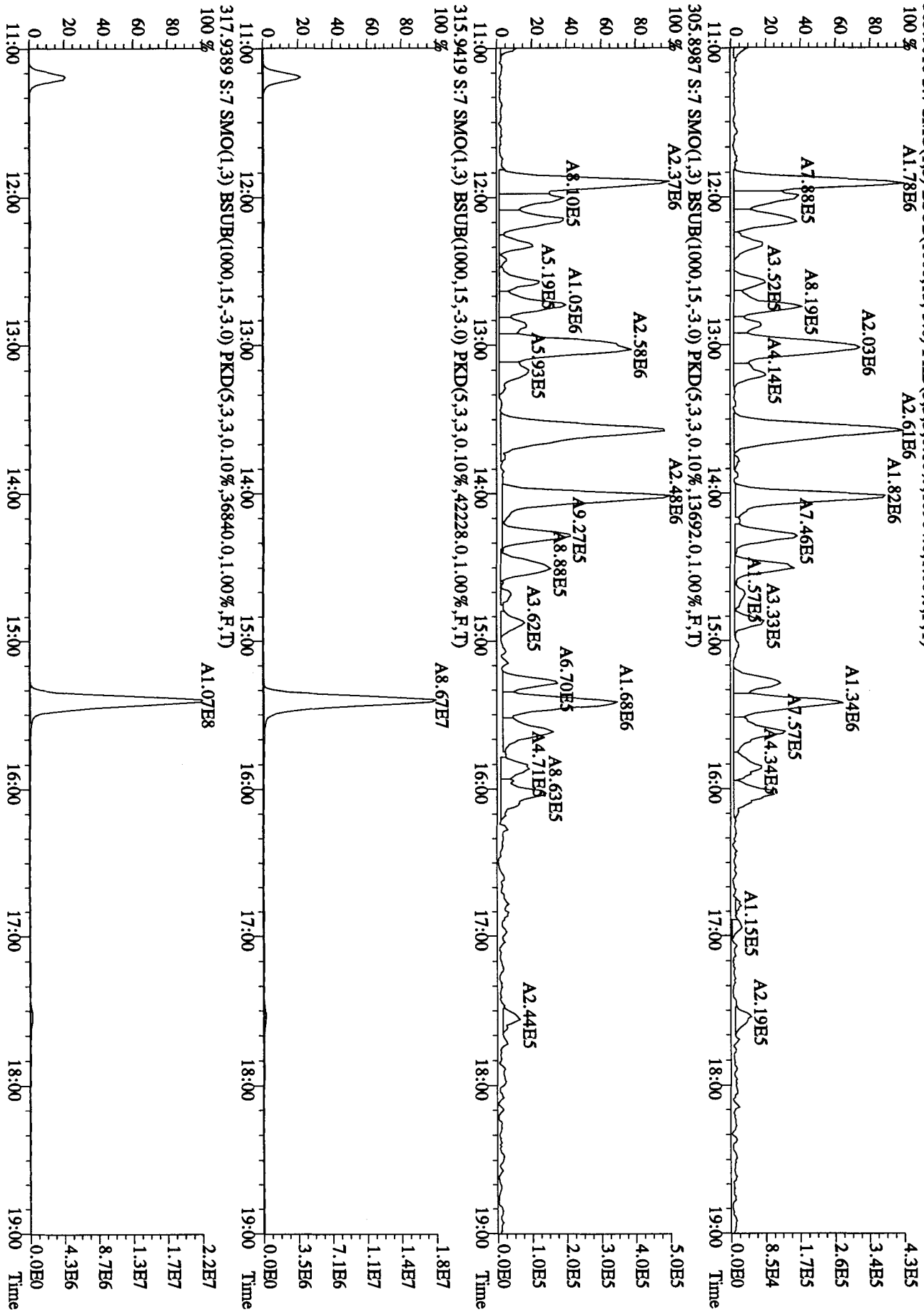
AK
1/7/10

File:051A105D2 #1-1242 Acq: 5-JAN-2010 13:55:02 GC EI+ Voltage SIR 70SE

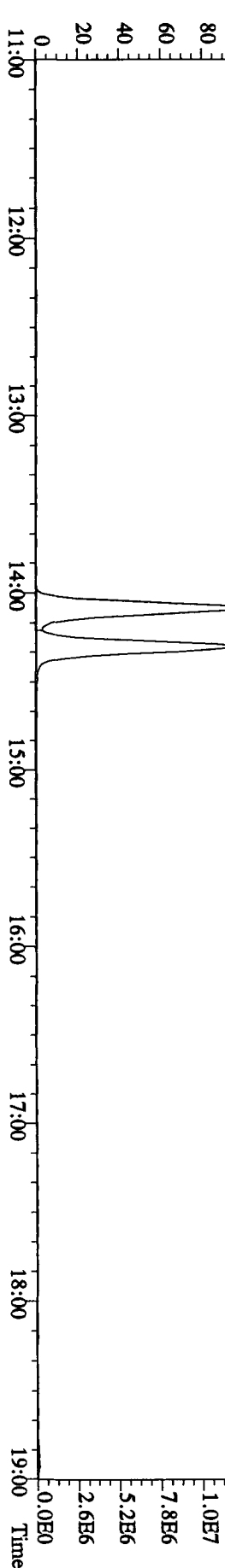
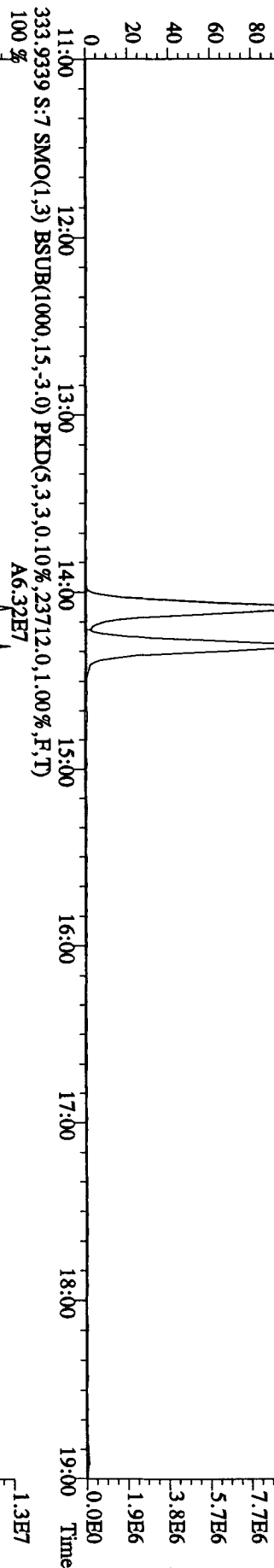
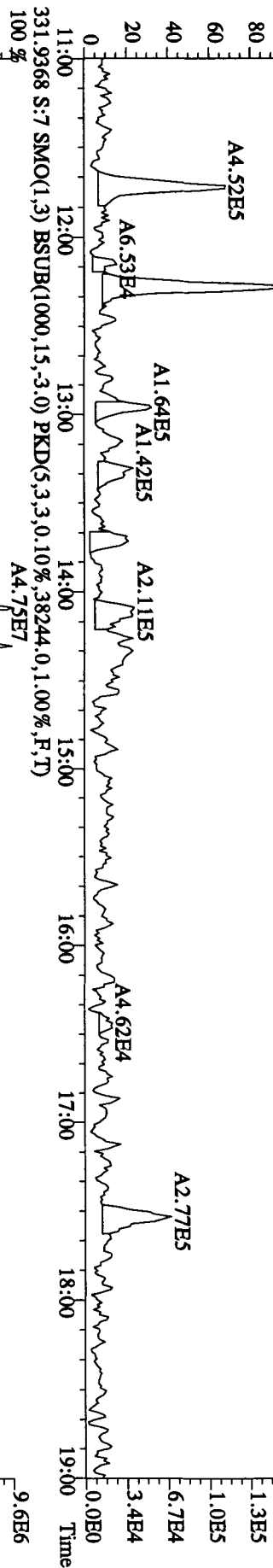
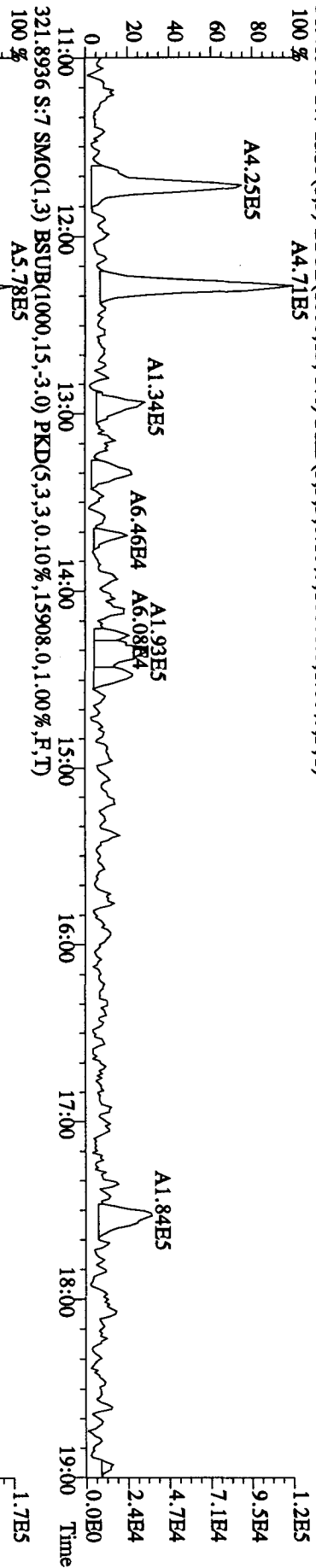
Sample#7 Text:1Q2K8-3-AC :G9L120491-3RX

Exp:DB225

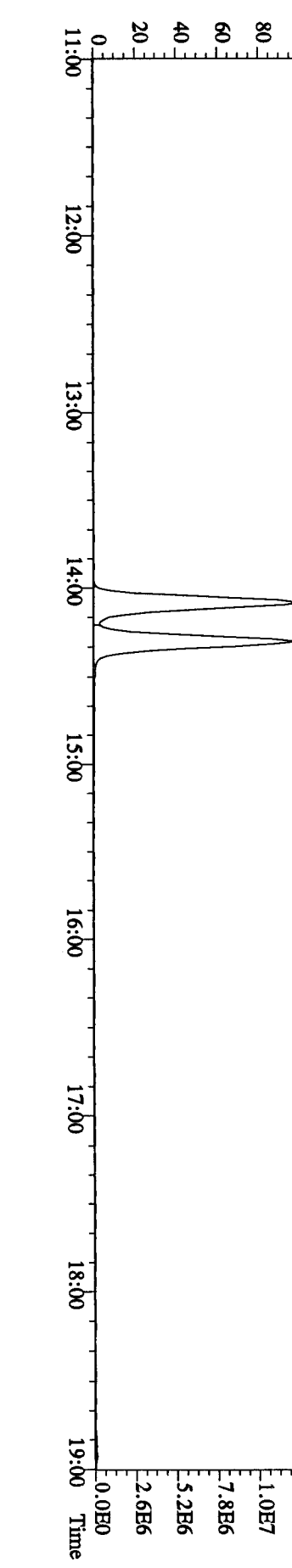
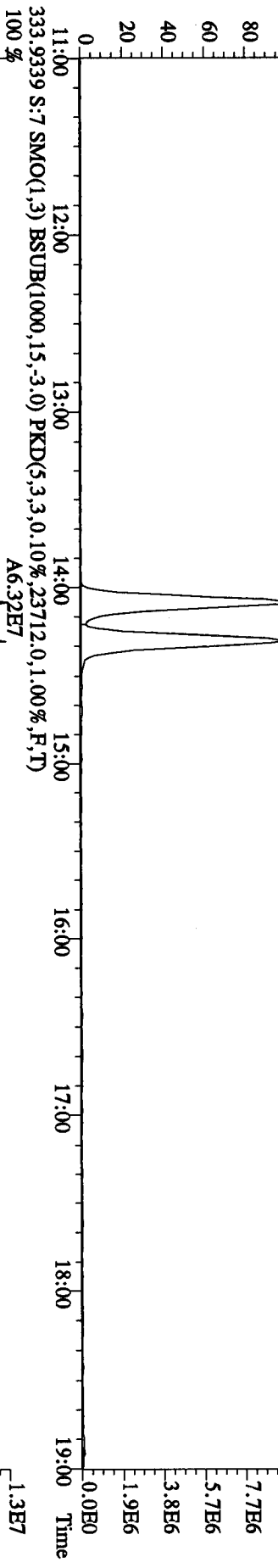
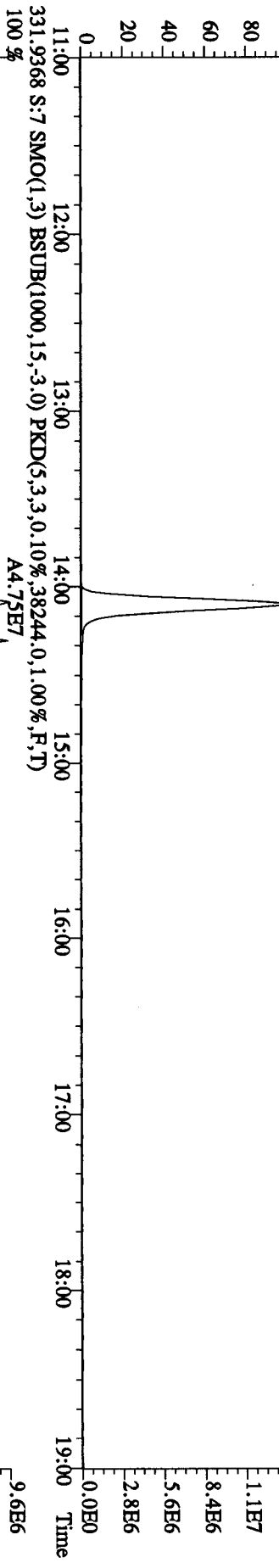
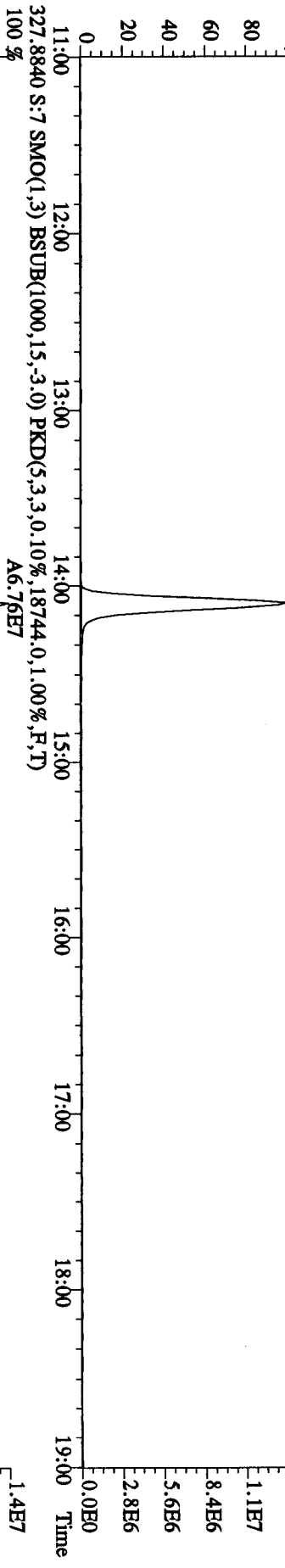
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10904.0,1.00%,F,T)



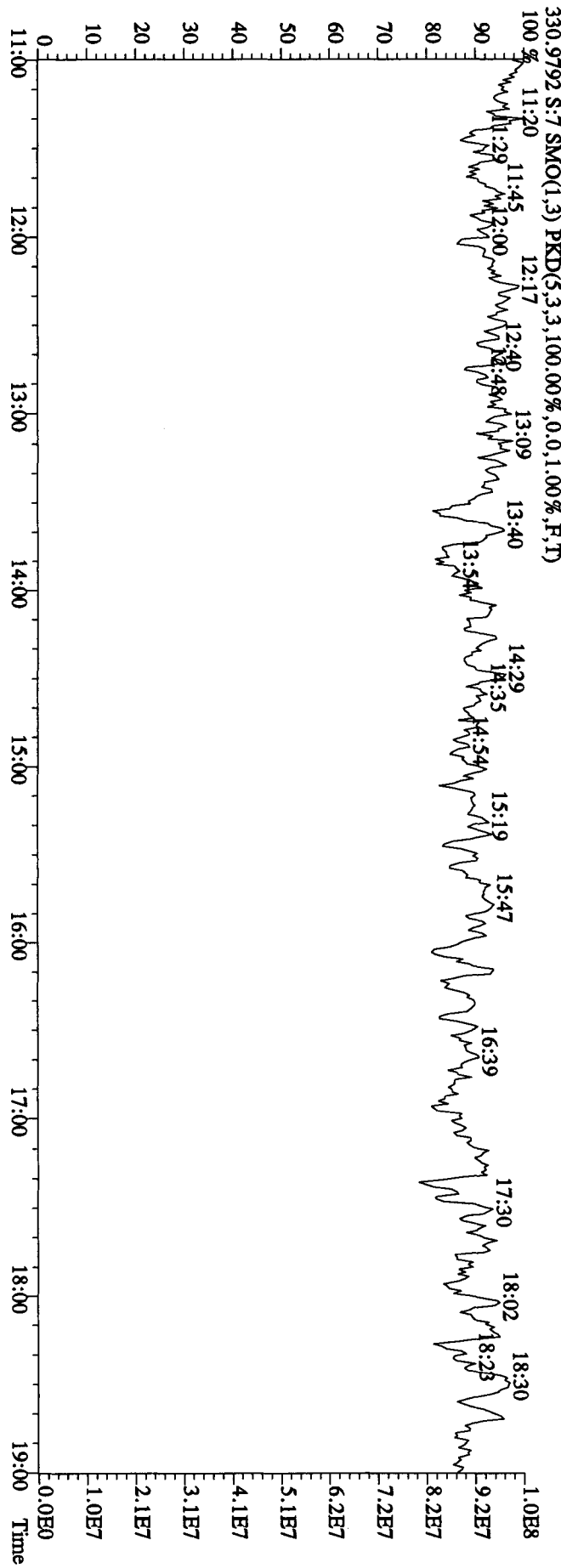
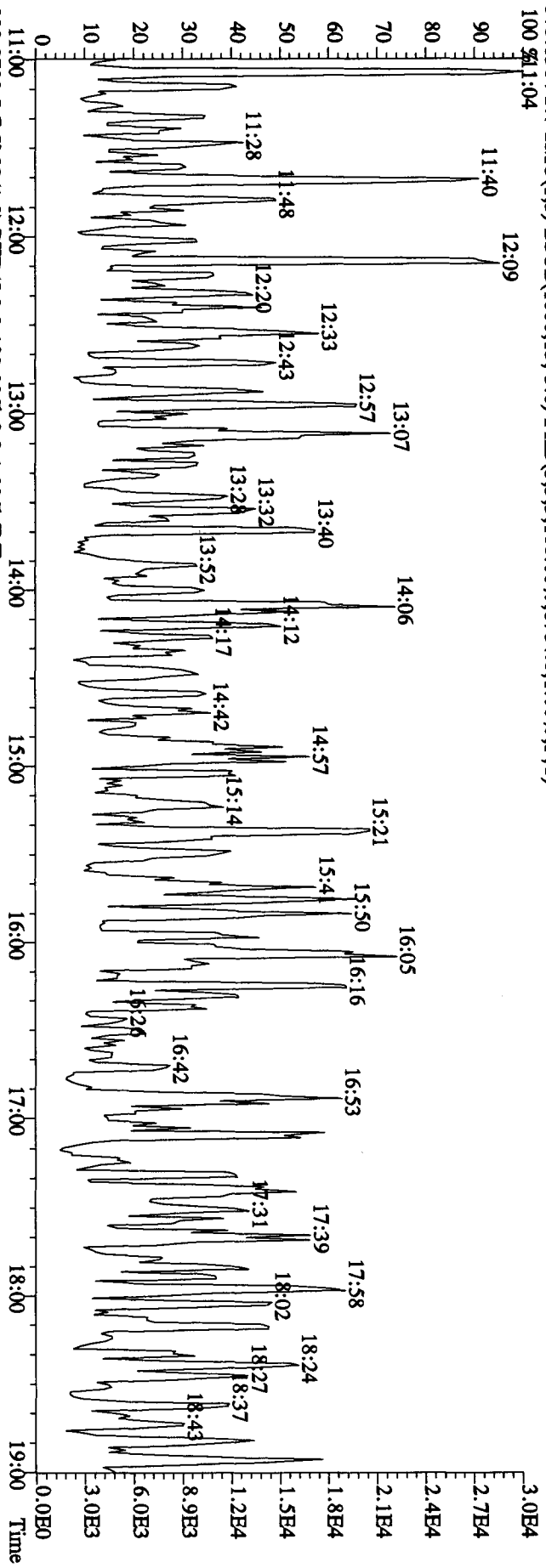
File:05JA10SD2 #1-1242 Acq: 5-JAN-2010 13:55:02 GC EI+ Voltage SIR 70SE
 Sample#7 Text:LQ2K8-3-AC :G9L120491-3RX Exp:DB225
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10008,0,1,00%,F,T)
 100 % A4.71E5



File:051A105D2 #1-1242 Acq: 5-JAN-2010 13:55:02 GC EI+ Voltage SIR 70SE
Sample#7 Text:LO2K8-3-AC :G9L120491-3RX Exp:DB225
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18744.0,1.00%,F,T)
100 % A6.76E7



File:051A105D2 #1-1242 Acq: 5-JAN-2010 13:55:02 GC EI+ Voltage SIR 70SE
 Sample#7 Tex:LQ2K8-3-AC :G9L120491-3RX Exp:DB225
 375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,6784.0,1.00%,F,T)
 100 % 11:04



Run text: LQ2K9-2-AC Sample text: LQ2K9-2-AC :G9L120491-4RX
 Run #16 Filename: 22DE09A4D5 S: 12 I: 1 Results: 22de09a4d582900S
 Acquired: 23-DEC-09 05:30:32 Processed: 23-DEC-09 08:38:24
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 10.40 g

of
 12-28-09

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	48626300	0.82 y	19:40	-	2.612	-	-	n
13C-2,3,7,8-TCDF	117414400	0.80 y	19:06	1.46	159.163	0.430	82.8	n
2,3,7,8-TCDF	939390000	0.79 y	19:08	1.27	1200.383	0.872	-	n
Total TCDF	5435948287	0.79 y	16:22	1.27	6992.527	0.872	-	n
13C-2,3,7,8-TCDD	63245700	0.83 y	19:54	0.92	135.507	0.253	70.5	n
2,3,7,8-TCDD	8030900	0.78 y	19:55	1.23	19.903	0.339	-	n
Total TCDD	23083296116.86	n	16:32	1.23	572.070	0.339	-	n
37Cl-2,3,7,8-TCDD	83468600	1.00 y	19:55	2.52	65.615	0.459	85.3	n
13C-1,2,3,7,8-PeCDF	73775900	1.59 y	24:51	1.27	115.157	0.360	59.9	n
1,2,3,7,8-PeCDF	459050000	1.54 y	24:52	1.30	919.249	23.825	-	n
2,3,4,7,8-PeCDF	219987100	1.52 y	26:23	1.25	458.791	24.813	-	n
Total F2 PeCDF	3316868828	1.38 y	22:40	1.28	6767.596	24.309	-	n
Total F1 PeCDF	189924096	0.68 n	19:42	1.28	388.048	0.184	-	n
13C-1,2,3,7,8-PeCDD	39710300	1.60 y	27:12	0.77	101.661	0.052	52.9	n
1,2,3,7,8-PeCDD	14046080	1.60 y	27:14	1.24	54.793	1.814	-	n
Total PeCDD	157167708	0.44 n	23:18	1.24	613.106	1.814	-	n
13C-1,2,3,7,8,9-HxCDD	31920500	1.27 y	33:13	-	1.736	-	-	n
13C-1,2,3,4,7,8-HxCDF	49692300	0.52 y	32:04	1.19	126.077	1.464	65.6	n
1,2,3,4,7,8-HxCDF	594772000	1.21 y	32:04	1.31	1760.683	39.570	-	y
1,2,3,6,7,8-HxCDF	411037000	1.24 y	32:12	1.41	1126.352	36.629	-	y
2,3,4,6,7,8-HxCDF	96235100	1.22 y	32:44	1.33	279.161	38.775	-	y
1,2,3,7,8,9-HxCDF	70316500	1.22 y	33:25	1.20	227.623	43.271	-	y
Total HxCDF	2110036800	1.24 y	30:46	1.31	6159.044	39.420	-	y
13C-1,2,3,6,7,8-HxCDD	27427600	1.27 y	32:56	0.75	110.643	0.139	57.5	n
1,2,3,4,7,8-HxCDD	5680270	1.20 y	32:53	1.24	32.059	0.792	-	y
1,2,3,6,7,8-HxCDD	17734850	1.28 y	32:57	1.48	84.049	0.665	-	y
1,2,3,7,8,9-HxCDD	13727970	1.22 y	33:13	1.47	65.361	0.668	-	y
Total HxCDD	99047241	1.30 y	31:32	1.40	491.910	0.704	-	y
13C-1,2,3,4,6,7,8-HpCDF	19058710	0.45 y	34:43	0.91	62.851	1.094	32.7	n
1,2,3,4,6,7,8-HpCDF	602255000	1.02 y	34:43	1.59	3810.210	9.770	-	n
1,2,3,4,7,8,9-HpCDF	298348000	1.02 y	35:52	1.33	2261.150	11.704	-	n
Total HpCDF	1256271190	1.02 y	34:43	1.46	8524.170	10.650	-	n
13C-1,2,3,4,6,7,8-HpCDD	14665650	1.09 y	35:32	0.71	61.889	0.545	32.2	n
1,2,3,4,6,7,8-HpCDD	27283800	1.04 y	35:32	1.31	273.657	1.795	-	n
Total HpCDD	39525644	0.26 n	34:34	1.31	396.443	1.795	-	n
13C-OCDD	14372050	0.86 y	38:03	0.61	71.452	0.399	18.6	n

OCDF	787672000	0.89	y	38:11	1.51	13966.921	E	6.697	G	-	n
OCDD	11698710	0.99	y	38:04	1.19	262.300	/	1.561		-	n

Run text: LQ2K9-2-AC Sample text: LQ2K9-2-AC :G9L120491-4RX
 Run #16 Filename: 22DE09A4D5 S: 12 I: 1 Results: 22DE09A4D58290
 Acquired: 23-DEC-09 05:30:32 Processed: 23-DEC-09 08:38:24
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.40007g

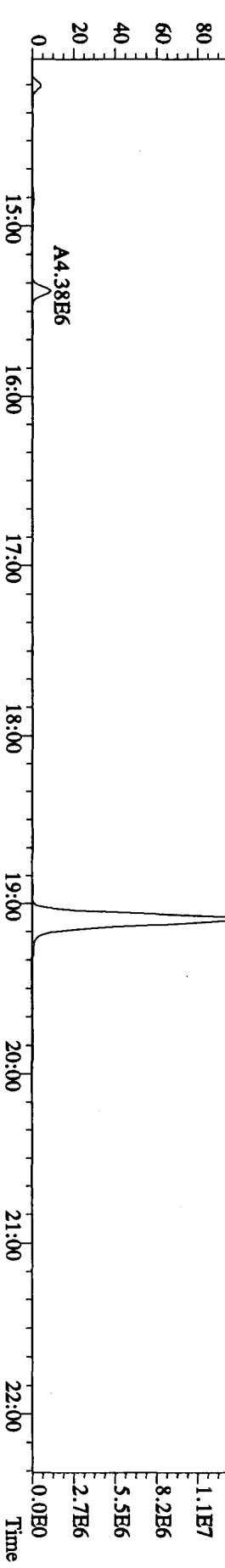
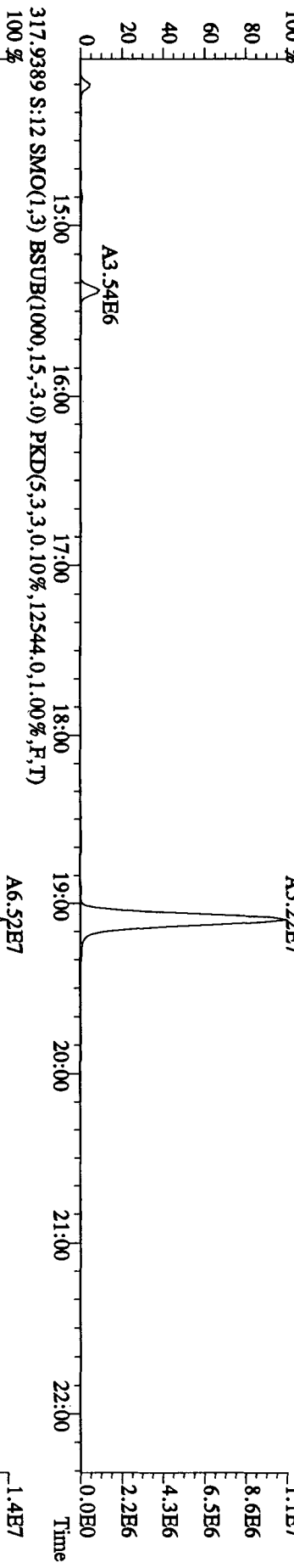
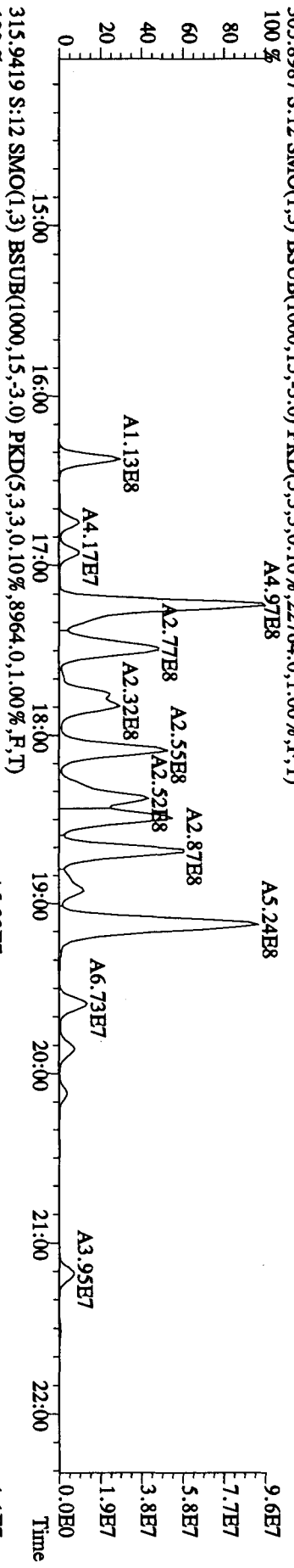
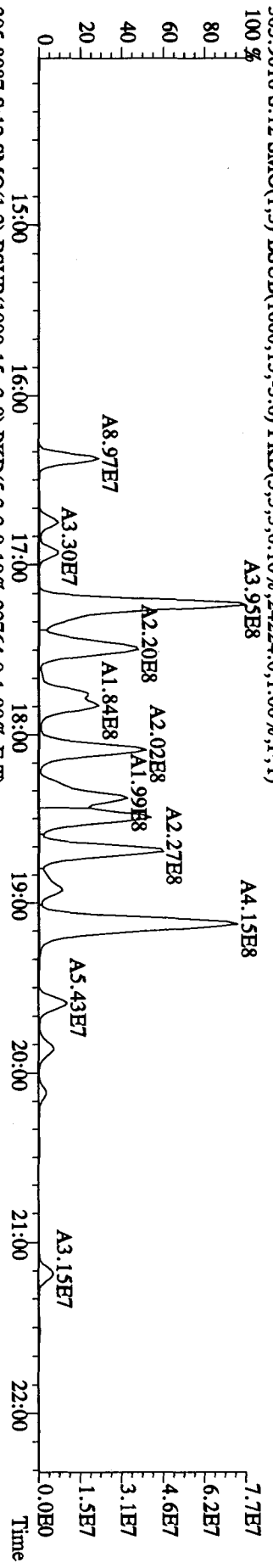
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	48626372	0.82 y	19:40	-	2.61	-	-	n
13C-2,3,7,8-TCDF	117414340	0.80 y	19:06	1.46	159.16	0.43	82.8	n
2,3,7,8-TCDF	939390656	0.79 y	19:08	1.27	1208.38	0.87	-	n
Total TCDF	5435949068	0.79 y	16:22	1.27	6992.53	0.87	-	n
13C-2,3,7,8-TCDD	63245750	0.83 y	19:54	0.92	135.51	0.25	70.5	n
2,3,7,8-TCDD	8030899	0.78 y	19:55	1.23	19.90	0.34	-	n
Total TCDD	23083287316	0.86 n	16:32	1.23	572.07	0.34	-	n
37Cl-2,3,7,8-TCDD	83468680	1.00 y	19:55	2.52	65.61	0.46	85.3	n
13C-1,2,3,7,8-PeCDF	73775876	1.59 y	24:51	1.27	115.16	0.36	59.9	n
1,2,3,7,8-PeCDF	459049984	1.54 y	24:52	1.30	919.25	23.83	-	n
2,3,4,7,8-PeCDF	219987336	1.52 y	26:23	1.25	458.79	24.81	-	n
Total F2 PeCDF	3316869648	1.38 y	22:40	1.28	6767.60	24.31	-	n
Total F1 PeCDF	189924487	0.68 n	19:42	1.28	388.05	0.18	-	n
13C-1,2,3,7,8-PeCDD	39710233	1.60 y	27:12	0.77	101.66	0.05	52.9	n
1,2,3,7,8-PeCDD	14046074	1.60 y	27:14	1.24	54.79	1.81	-	n
Total PeCDD	157167657	0.44 n	23:18	1.24	613.11	1.81	-	n
13C-1,2,3,7,8,9-HxCDD	31920501	1.27 y	33:13	-	1.74	-	-	n
13C-1,2,3,4,7,8-HxCDF	49692260	0.52 y	32:04	1.19	126.08	1.46	65.6	n
1,2,3,4,7,8-HxCDF	637227552	1.21 y	32:04	1.31	1886.36	39.57	-	n
1,2,3,6,7,8-HxCDF	405866016	1.23 y	32:12	1.41	1112.18	36.63	-	n
2,3,4,6,7,8-HxCDF	209318000	1.23 y	32:40	1.33	607.19	38.78	-	n
1,2,3,7,8,9-HxCDF	155901976	1.23 y	33:26	1.20	504.67	43.27	-	n
Total HxCDF	2496912382	1.24 y	30:46	1.31	7320.72	39.42	-	n
13C-1,2,3,6,7,8-HxCDD	27427590	1.27 y	32:56	0.75	110.64	0.14	57.5	n
1,2,3,4,7,8-HxCDD	23192870	1.27 y	32:57	1.24	130.90	0.79	-	n
1,2,3,6,7,8-HxCDD	23192870	1.27 y	32:57	1.48	109.92	0.66	-	n
1,2,3,7,8,9-HxCDD	13583040	1.25 y	33:13	1.47	64.67	0.67	-	n
Total HxCDD	98680075	1.30 y	31:32	1.40	485.03	0.70	-	n
13C-1,2,3,4,6,7,8-HpCDF	19058679	0.45 y	34:43	0.91	62.85	1.09	32.7	n
1,2,3,4,6,7,8-HpCDF	602254368	1.02 y	34:43	1.59	3810.21	9.77	-	n
1,2,3,4,7,8,9-HpCDF	298347936	1.02 y	35:52	1.33	2261.15	11.70	-	n
Total HpCDF	1256270670	1.02 y	34:43	1.46	8524.18	10.65	-	n
13C-1,2,3,4,6,7,8-HpCDD	14665652	1.09 y	35:32	0.71	61.89	0.54	32.2	n
1,2,3,4,6,7,8-HpCDD	27283805	1.04 y	35:32	1.31	273.66	1.80	-	n
Total HpCDD	39397306	0.26 n	34:34	1.31	395.16	1.80	-	n
13C-OCDD	14372041	0.86 y	38:03	0.61	71.45	0.40	18.6	n

OCDF	787671680	0.89	y	38:11	1.51	13966.92	6.70	-	n
OCDD	11698708	0.99	y	38:04	1.19	262.30	1.56	-	n

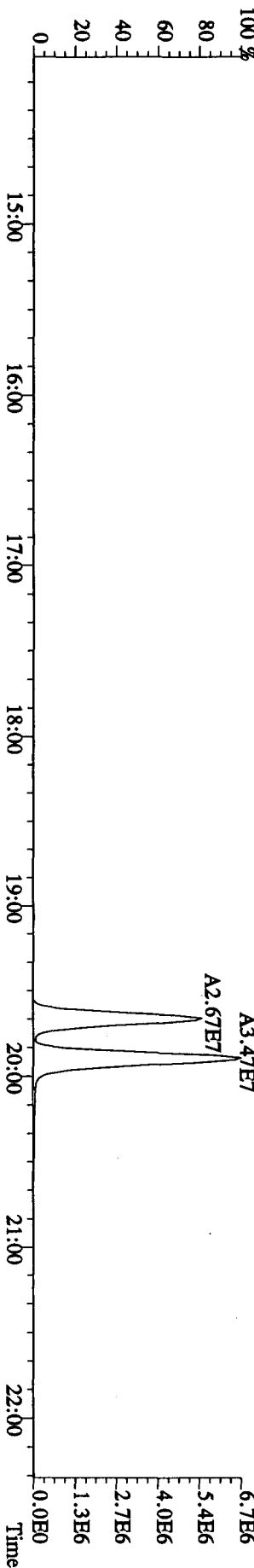
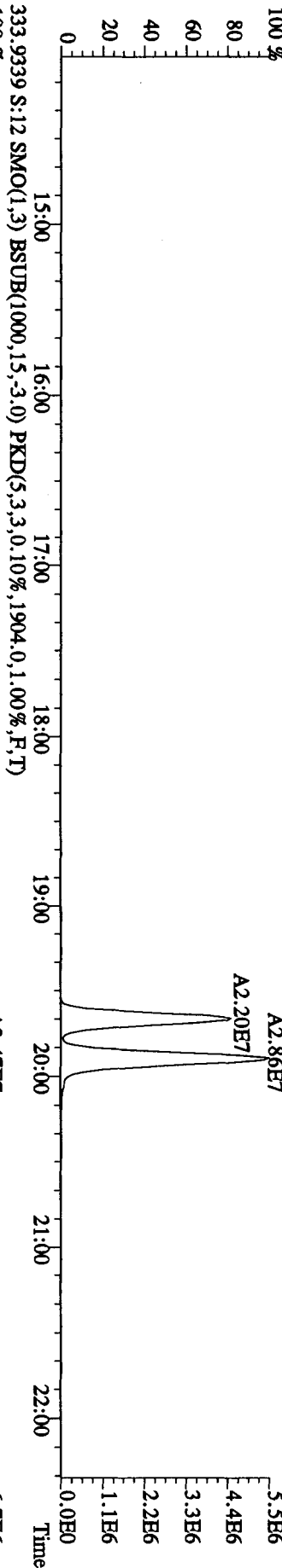
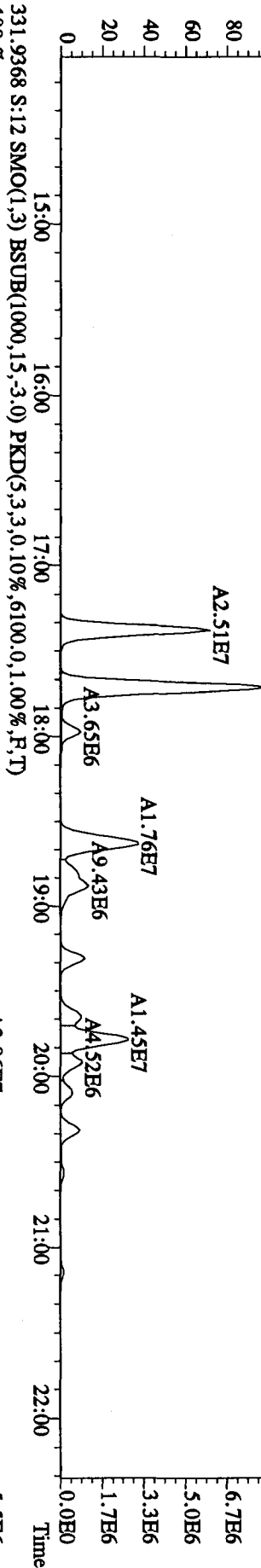
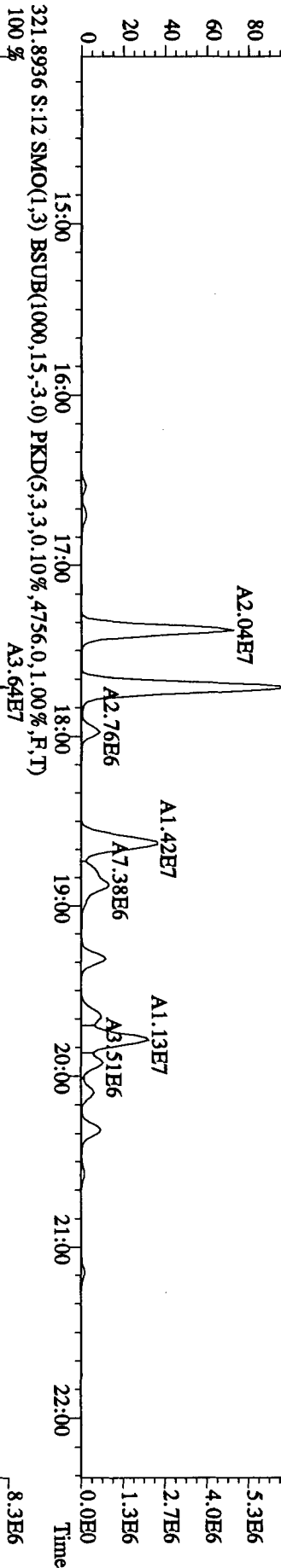
File:22DE09A4D5 #1-578 Acq:23-DEC-2009 05:30:32 GC EI + Voltage SFR Autospec-UltimaB

Sample#12 Text:LO2K9-2-AC :G9L120491-4RX Exp:DIOXIN

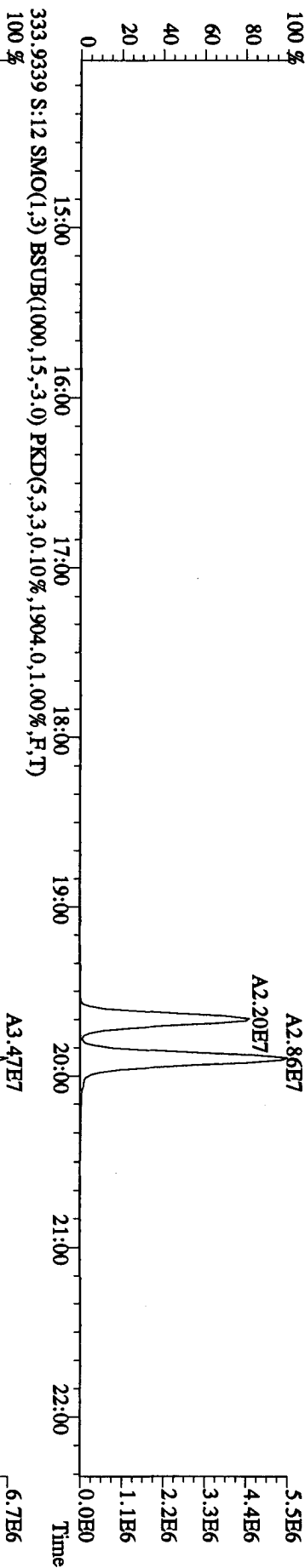
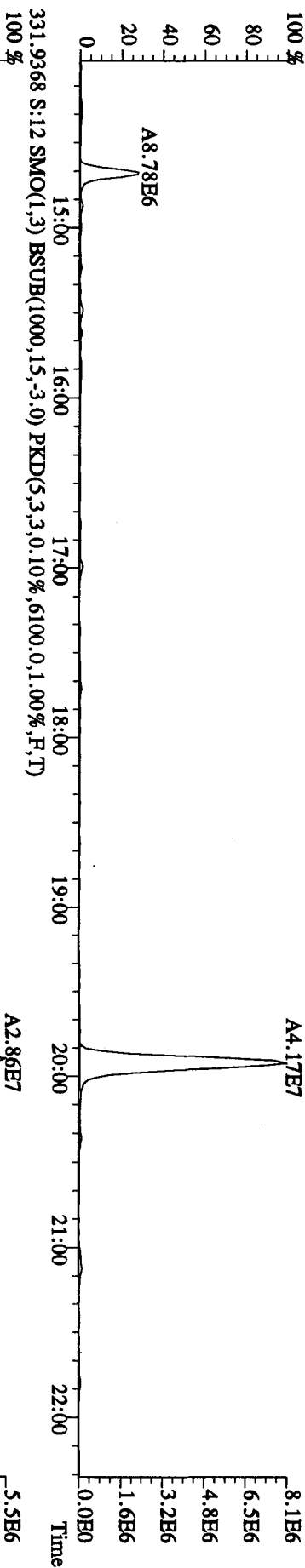
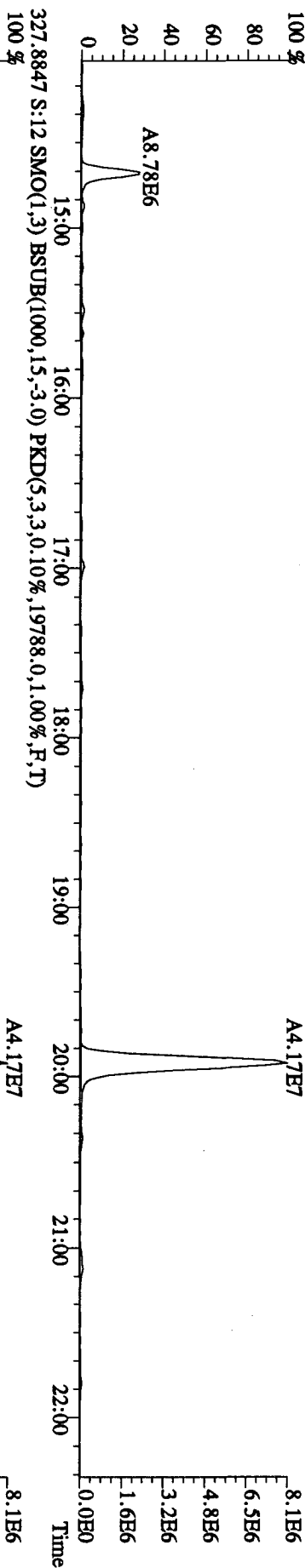
303.9016 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,24224,0,1.00%,F,T)



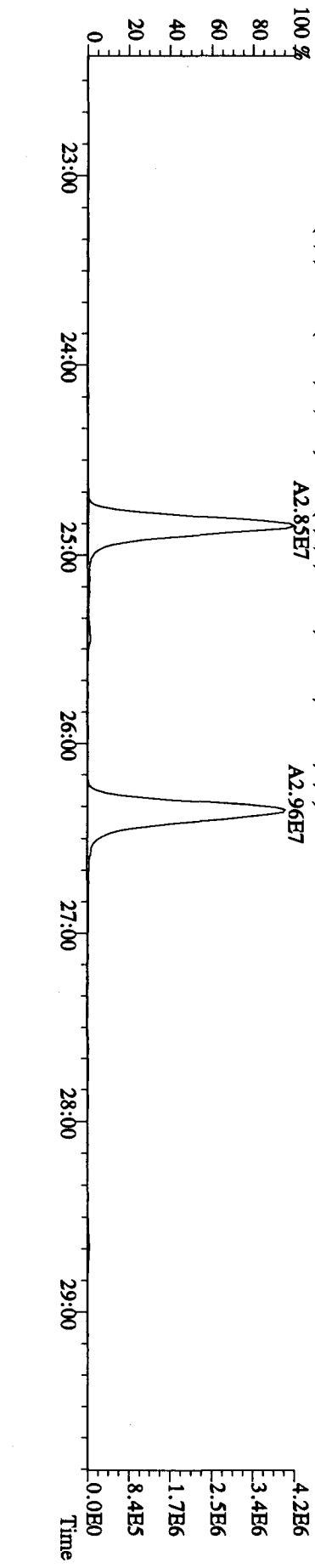
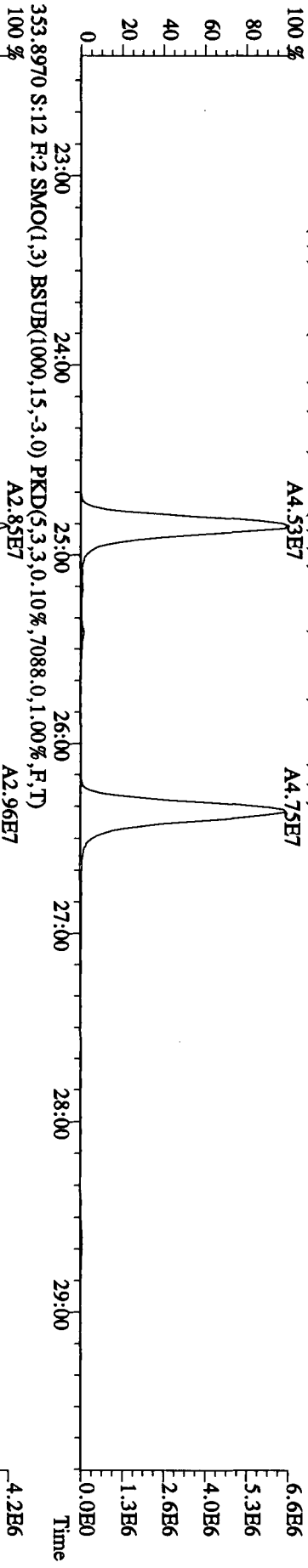
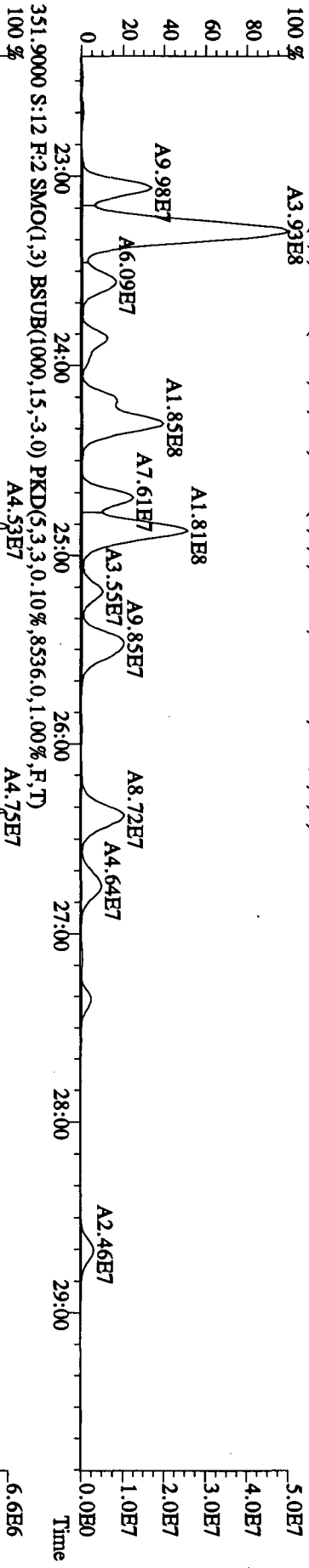
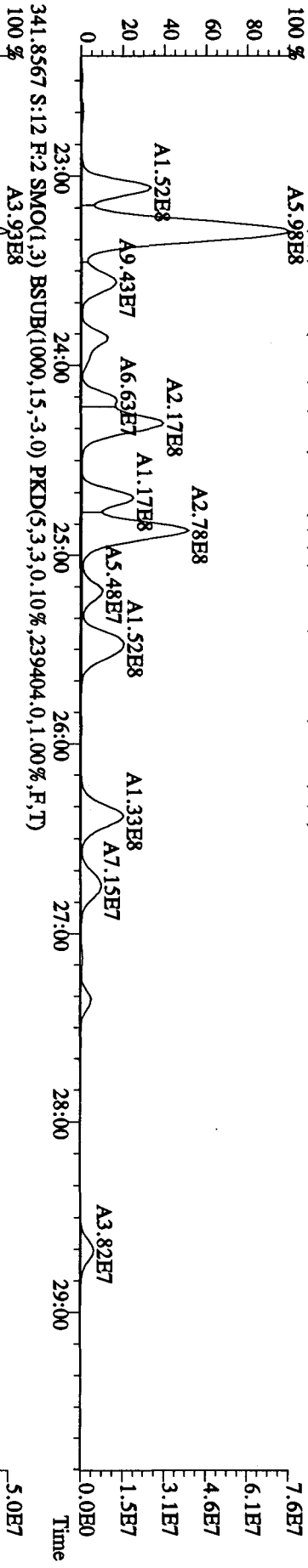
File: 22DB09A4D5 #1-578 Acq: 23-DEC-2009 05:30:32 GC EI + Voltage SIR Autospec-UltimaE
 Sample#12 Text: LQ2K9-2-AC :G9L120491-4RX Exp: DIOXIN
 319.8965 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4008.0,1.00%,F,T)
 A2.90E7



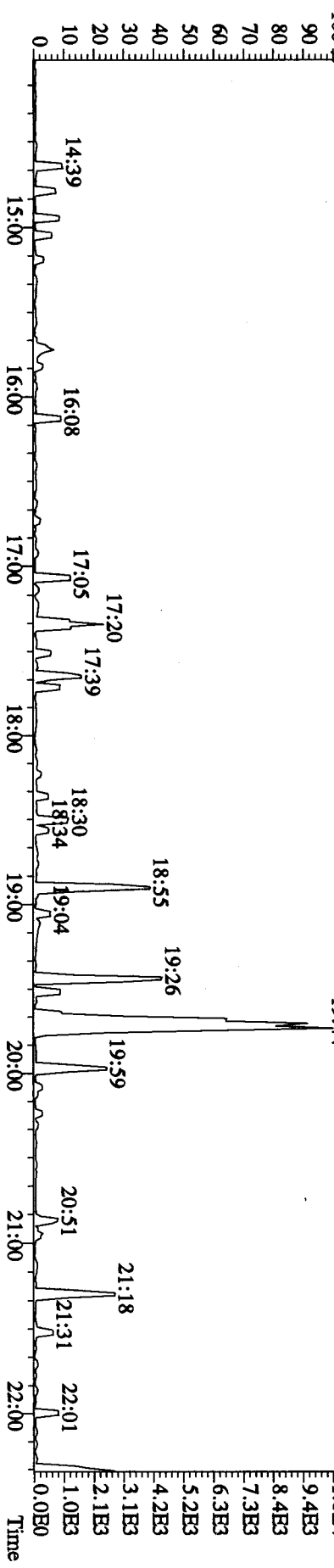
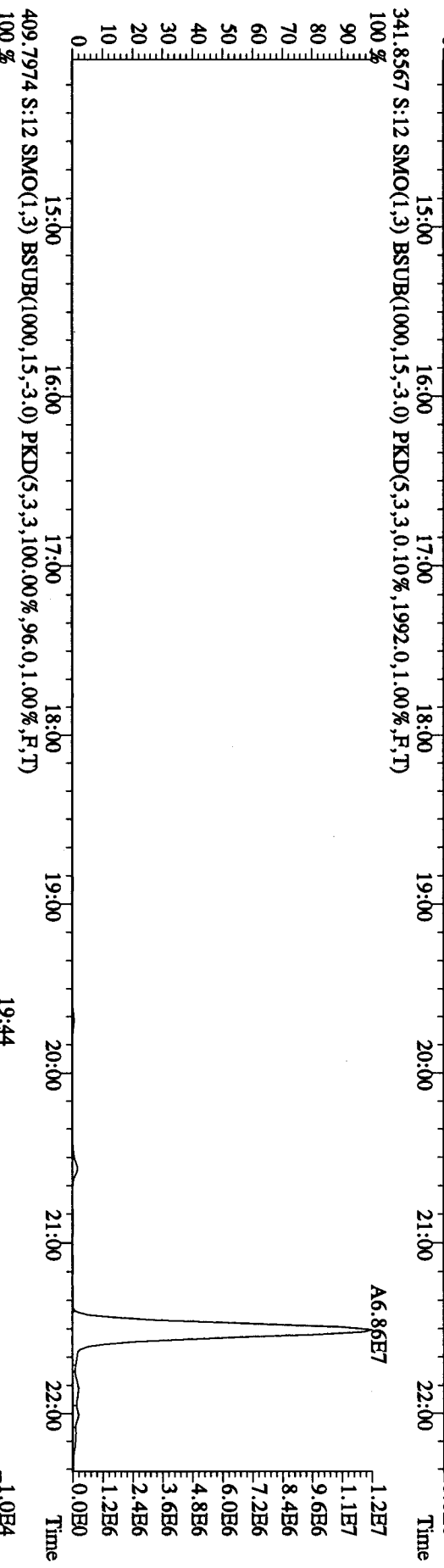
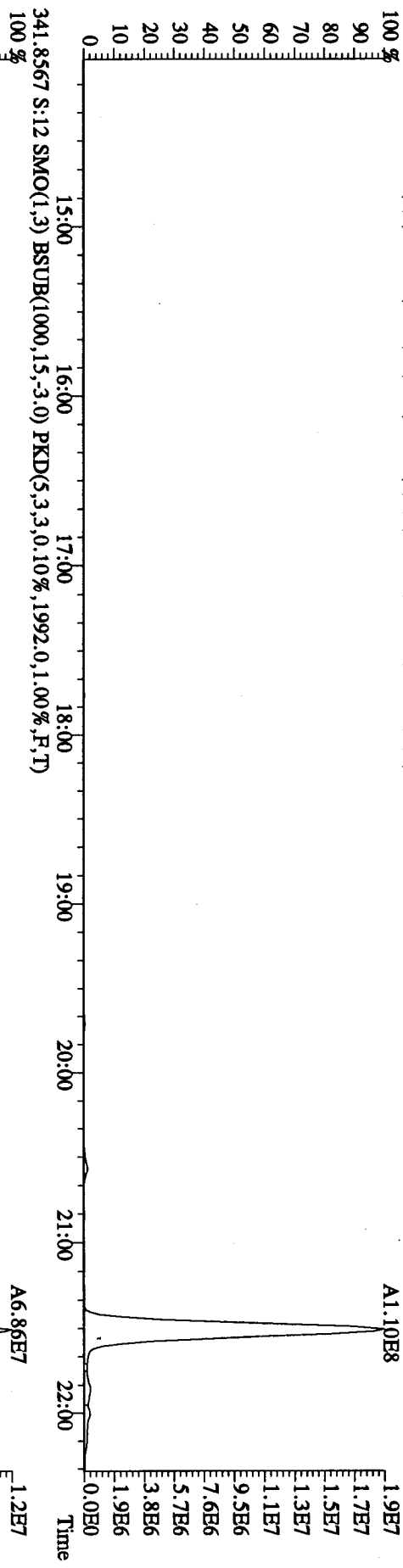
File: 22DE09A4D5 #1-578 Acq: 23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-UltimaE
Sample#12 Text: LQ2K9-2-AC :G9L120491-4RX Exp: DIOXIN
327.8847 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,19788,0,1,00%,F,T)



File: 22DEB09A4D5 #1-596 Acq: 23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#12 Text: LQ2K9-2-AC :G9L120491-4RX Exp: DIOXIN
 339.8597 S:12 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,342076,0,1,00%,F,T)
 100% A5.98E8

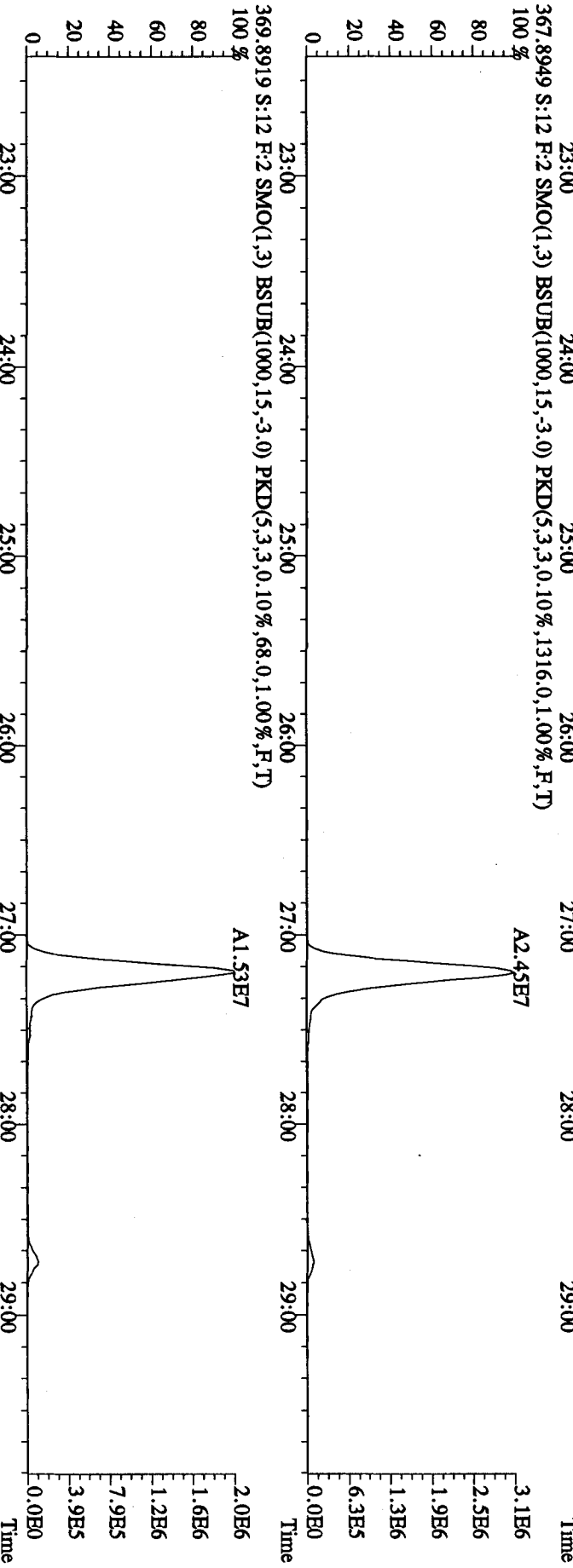
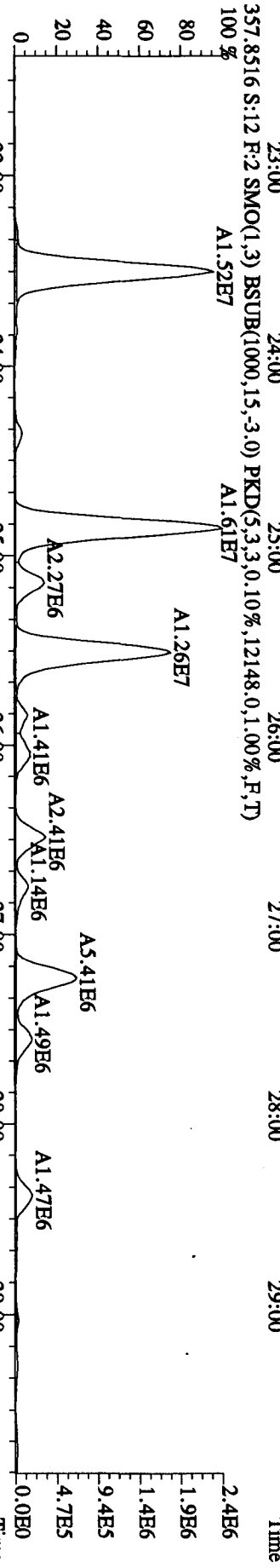
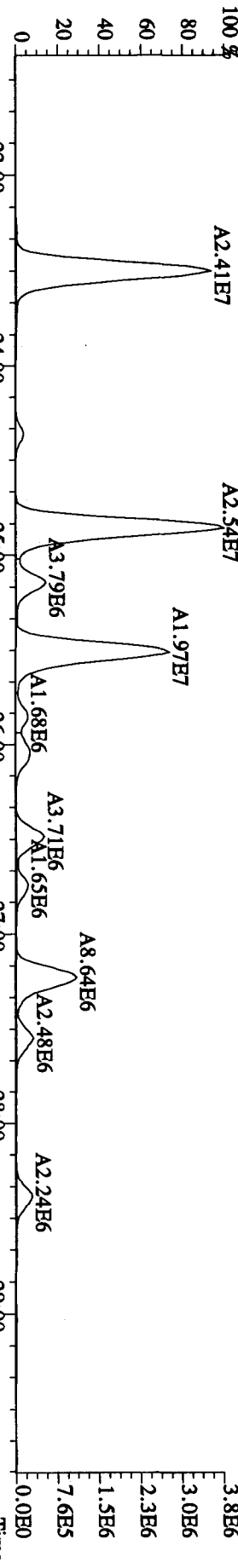


File:22DB09A4D5 #1-578 Acq:23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#12 Text:LQ2K9-2-AC :G9L120491-4RX Exp:DIOXIN
 339,8597 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2420,0,1,00%,F,T)

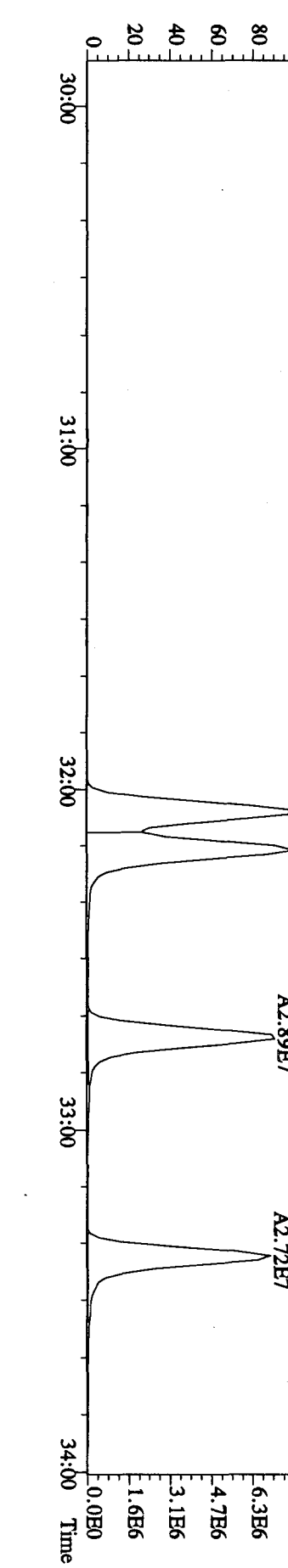
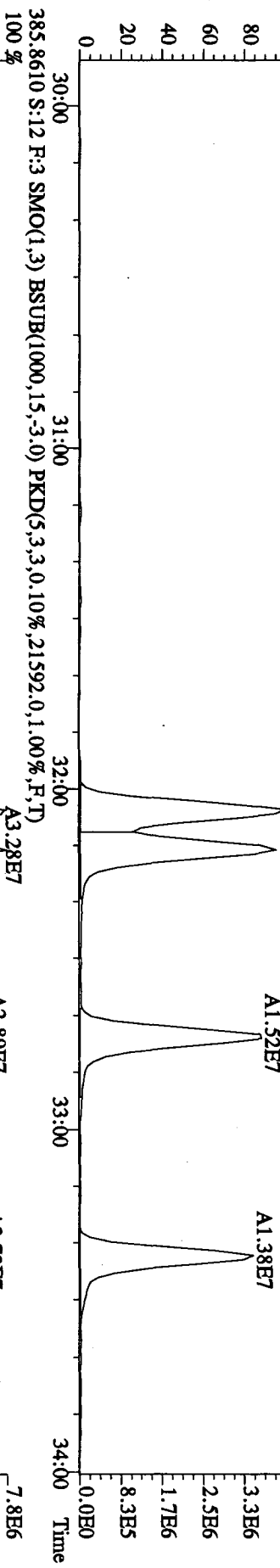
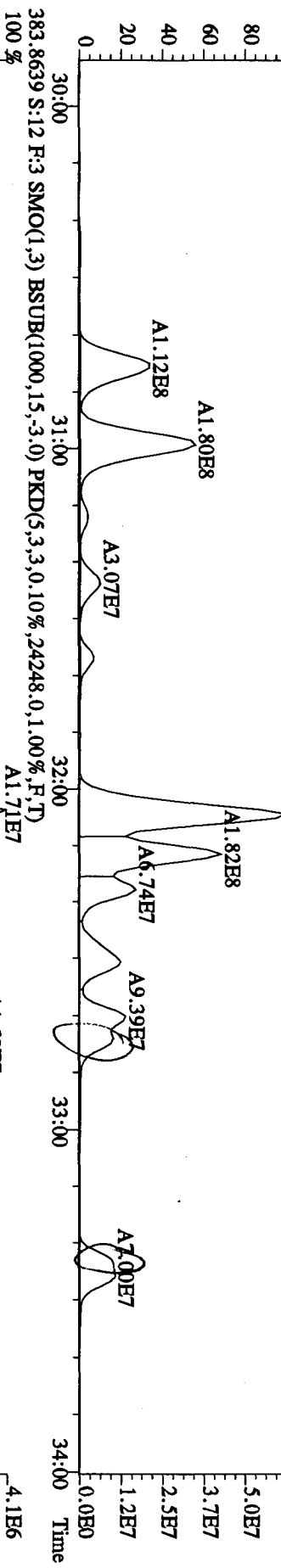
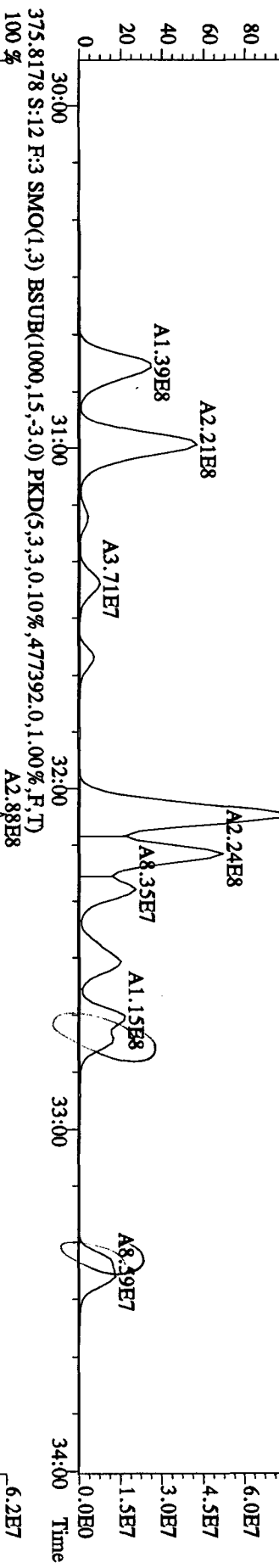


File: 22DB09A4D5 #1-596 Acq: 23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-UltimaB

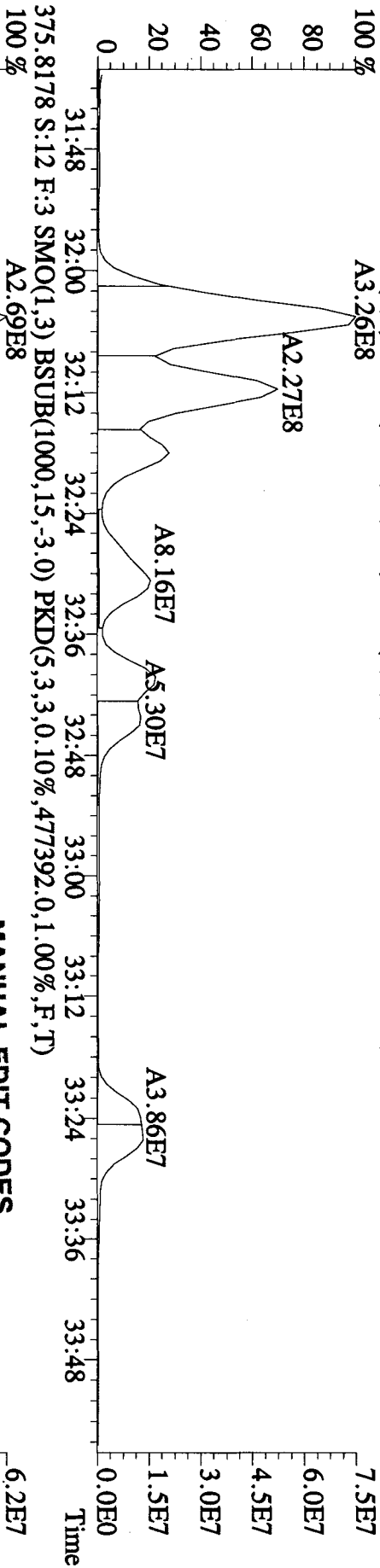
Sample#12 Text: LQ2K9-2-AC :G9L120491-4RX Exp: DIOXIN



File:22DE09A4D5 #1-314 Acq:23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#12 Text:LO2K9-2-AC :G9L120491-4RX Exp:DIOXIN
 373.8208 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,586416,0,1.00%,F,T)
 100%



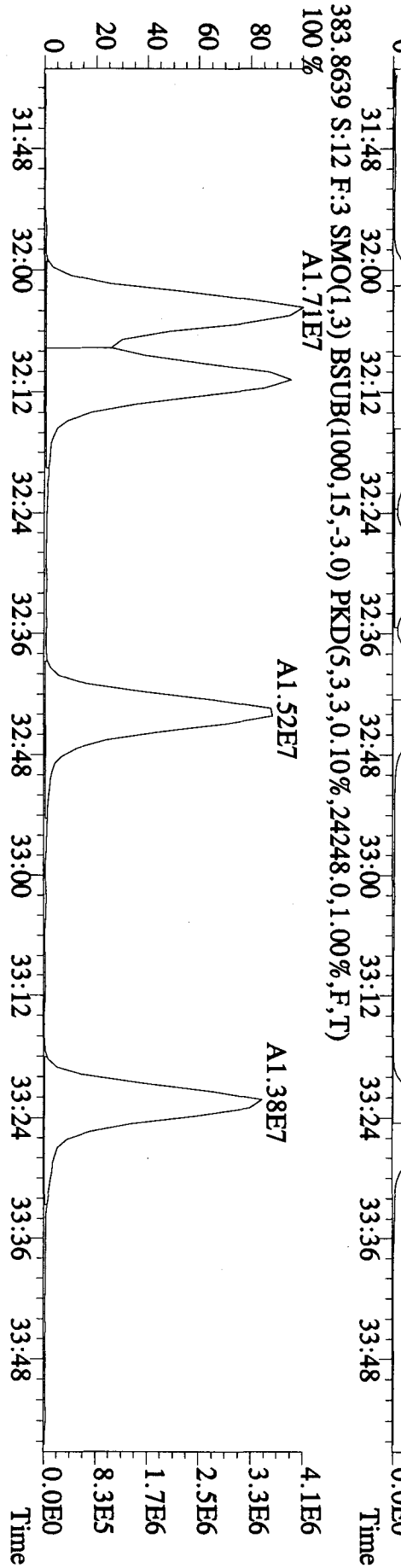
File: 22DE09A4D5 #1-314 Acq: 23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#12 Text: LO2K9-2-AC :G9L120491-4R Exp: DIOXIN
 373.8208 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,586416.0,1.00%,F,T)
 A3.26E8



MANUAL EDIT CODES

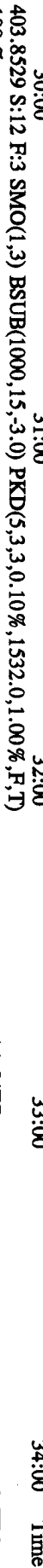
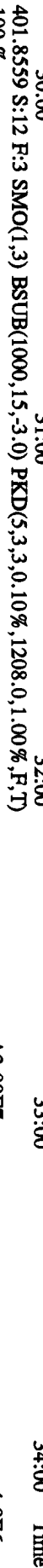
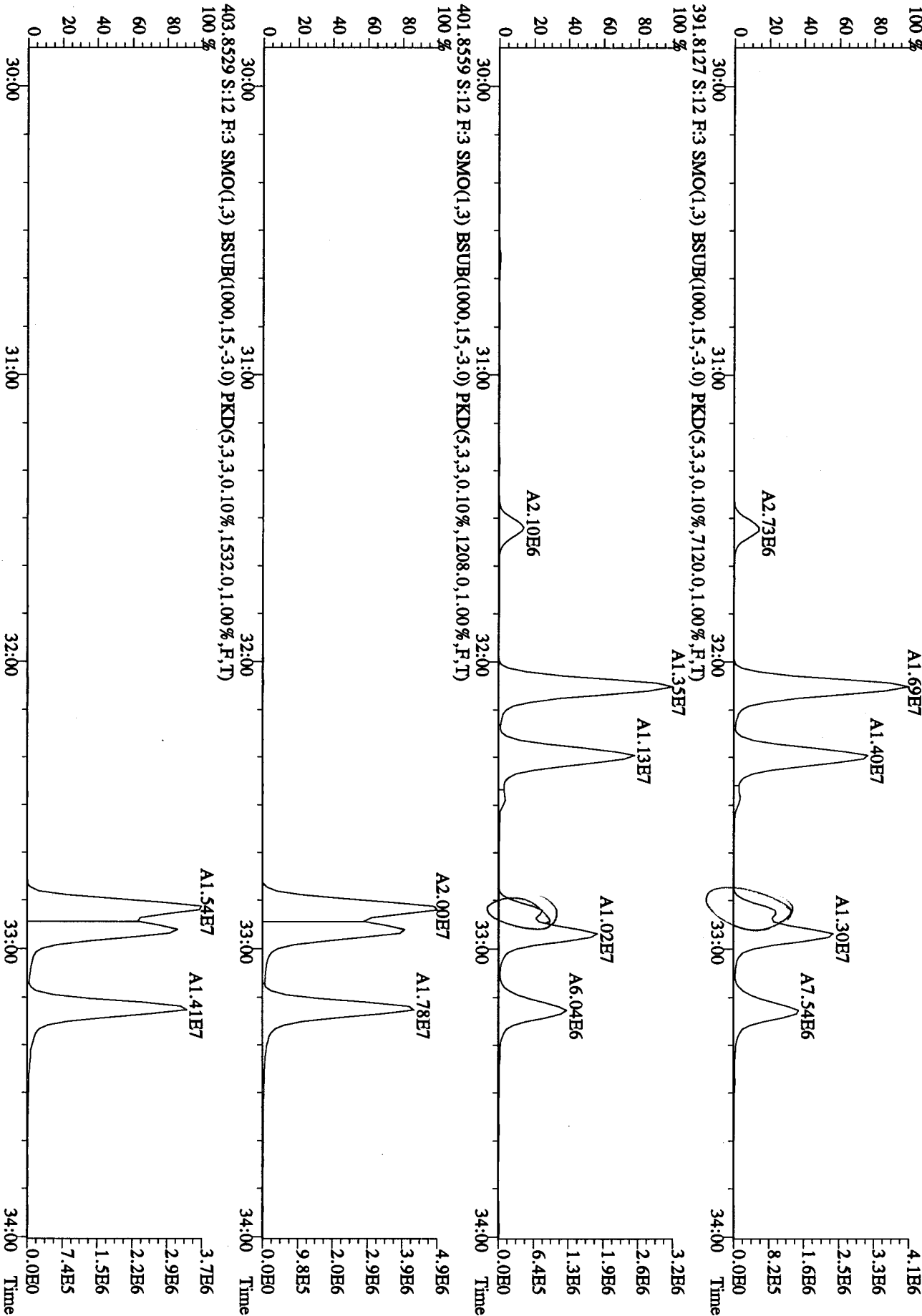
- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other _____

Analyst _____ Date 05-17-09 12-28-09



File:22DE09A4D5 #1-314 Acq:23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-UltimaB

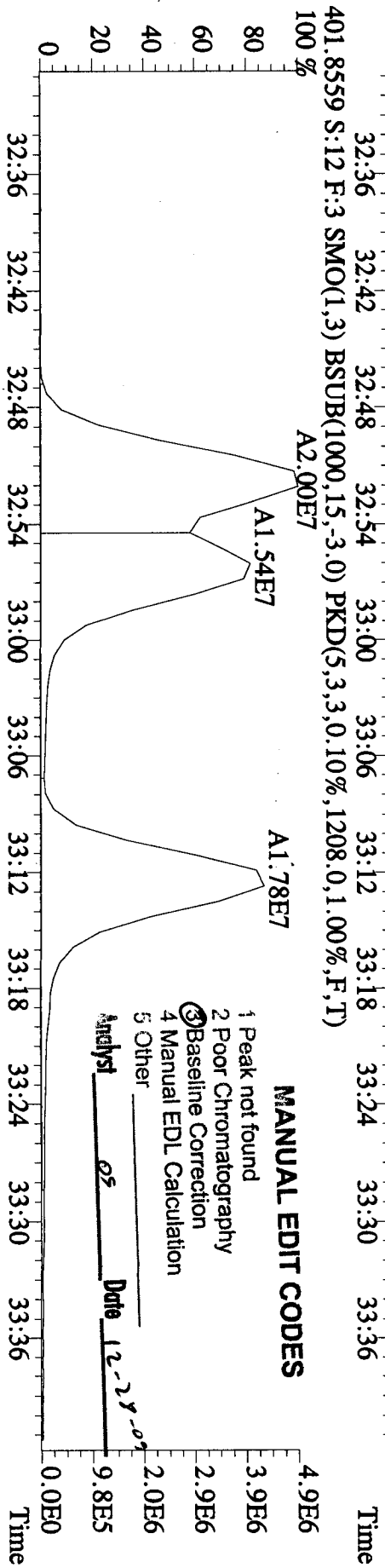
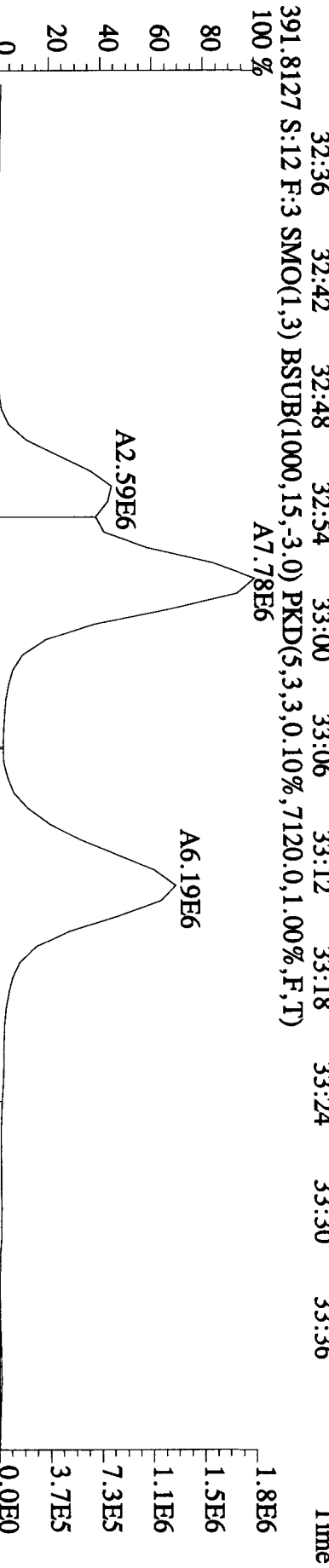
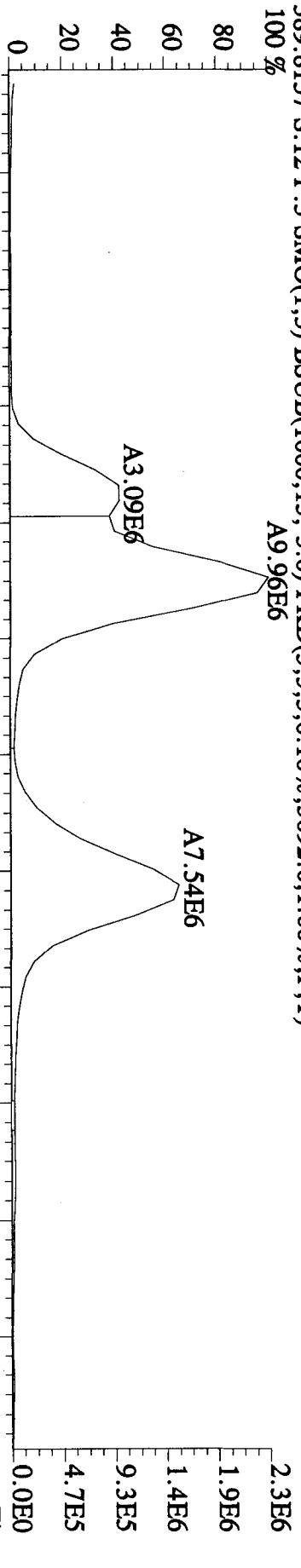
Sample#12 Text:LQ2K9-2-AC :G9L120491-4RX Exp:DIOXIN



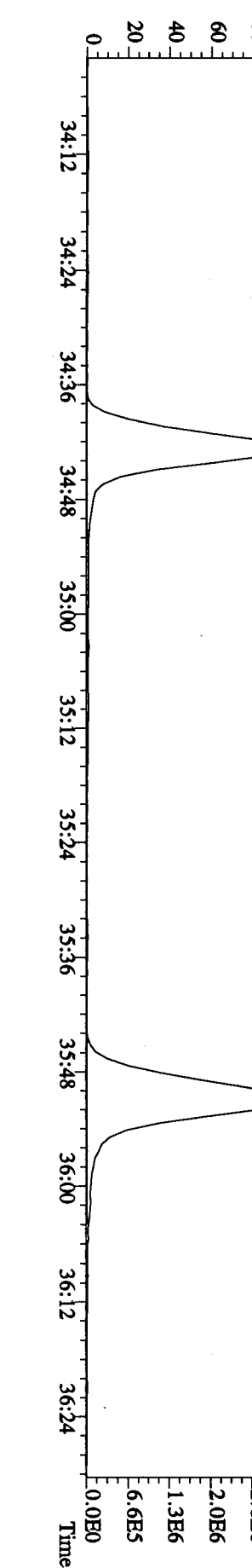
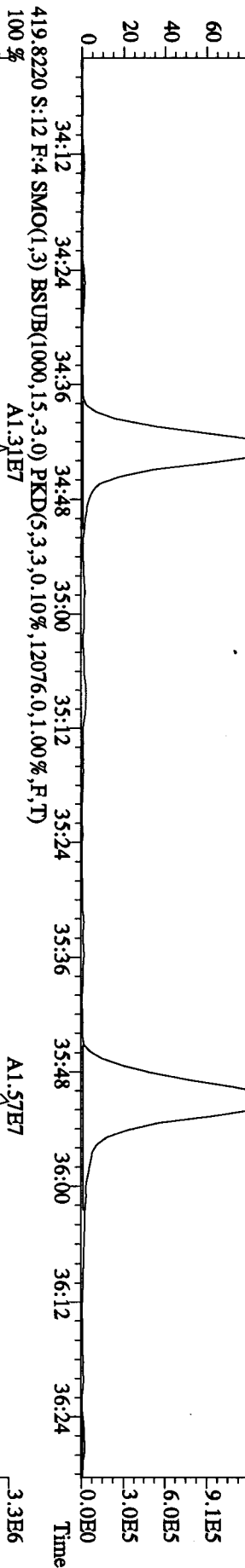
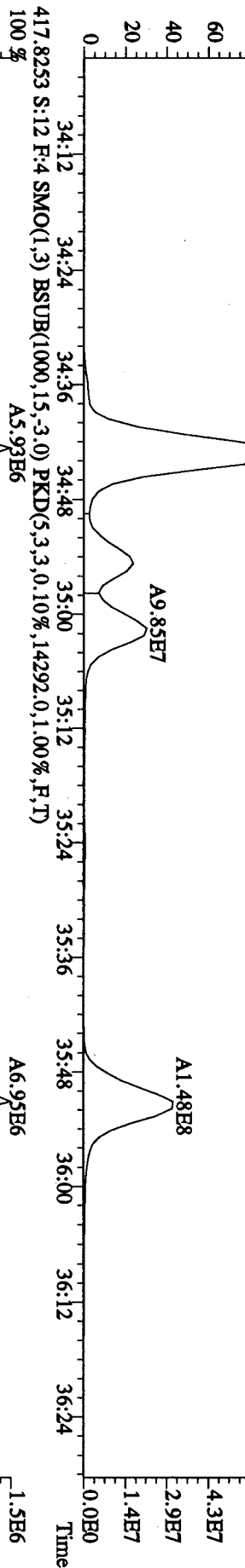
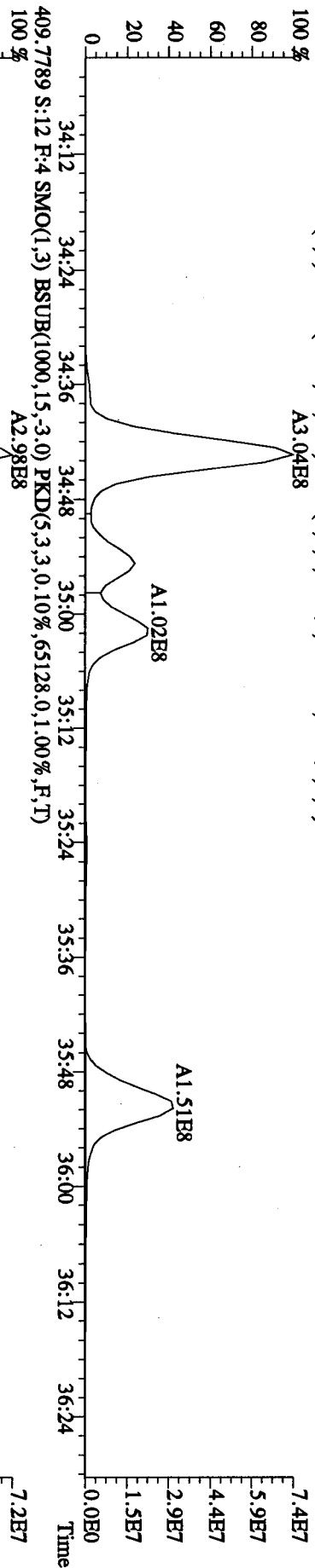
File: 22DE09A4D5 #1-314 Acq: 23-DEC-2009 05:30:32 GC EI + Voltage SIR Autospec-Ultimate

Sample#12 Text: LQ2K9-2-AC : G9L120491-4R Exp: DIOXIN

389.8157 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5092.0,1.00%,F,T)

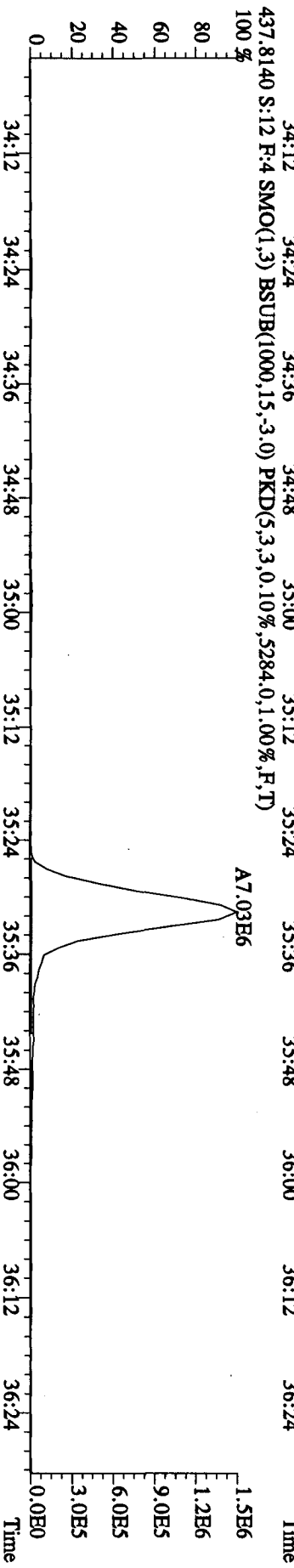
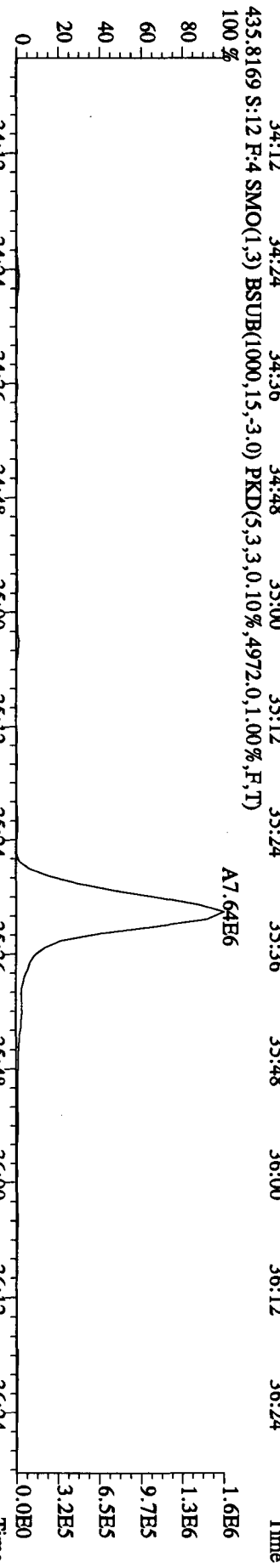
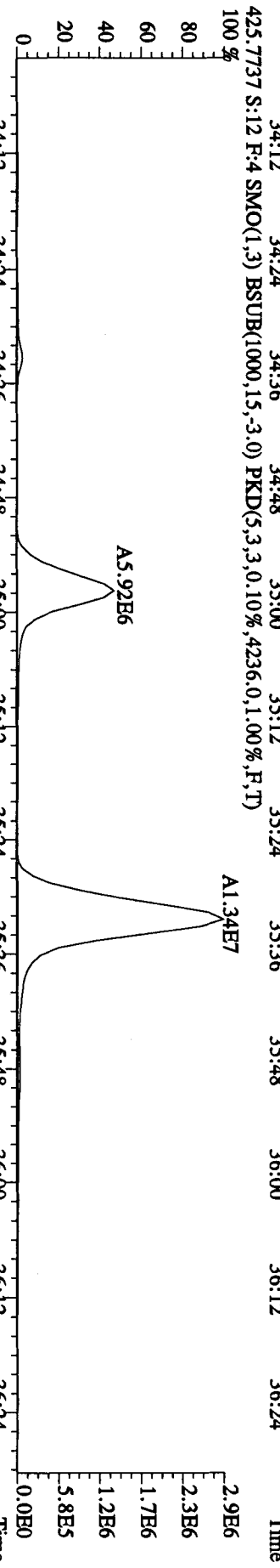
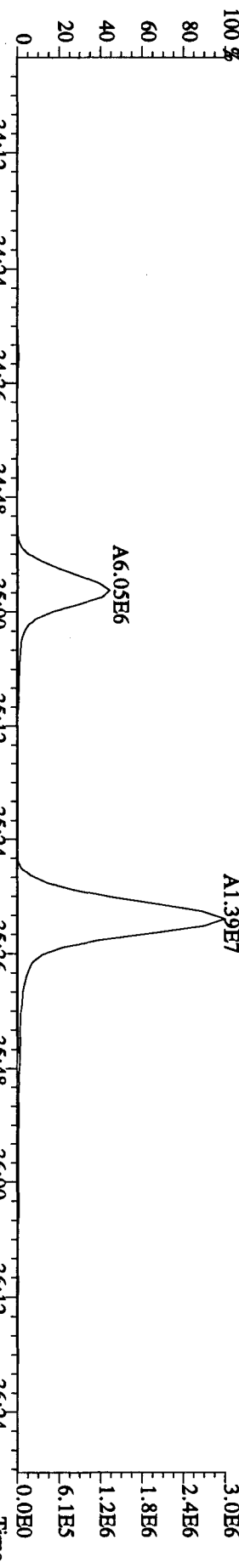


File:22DE09A4D5 #1-198 Acq:23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#12 Text:LQ2K9-2-AC :G9L120491-4RX Exp:DIOXIN
 407.7818 S:12 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,64236.0,1.00%,F,T)
 100%

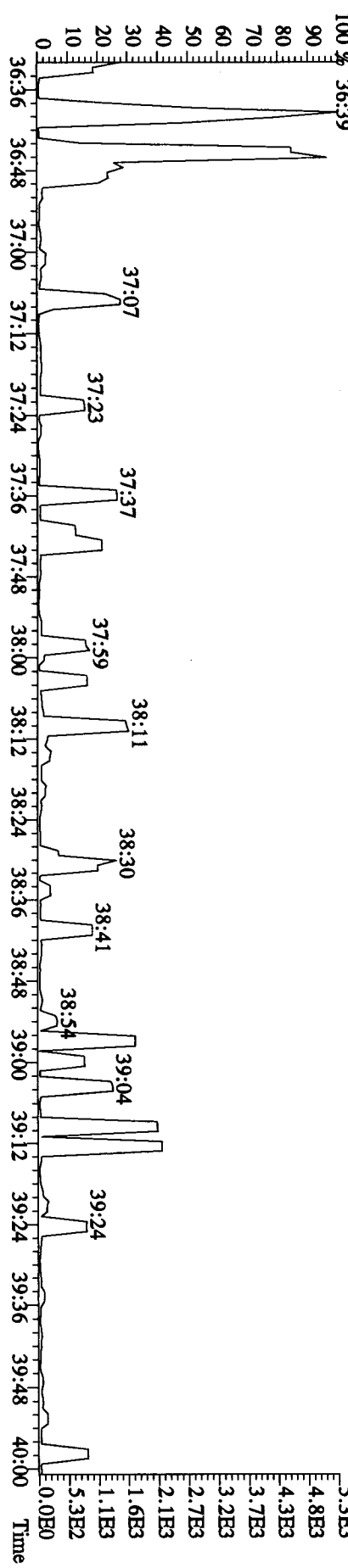
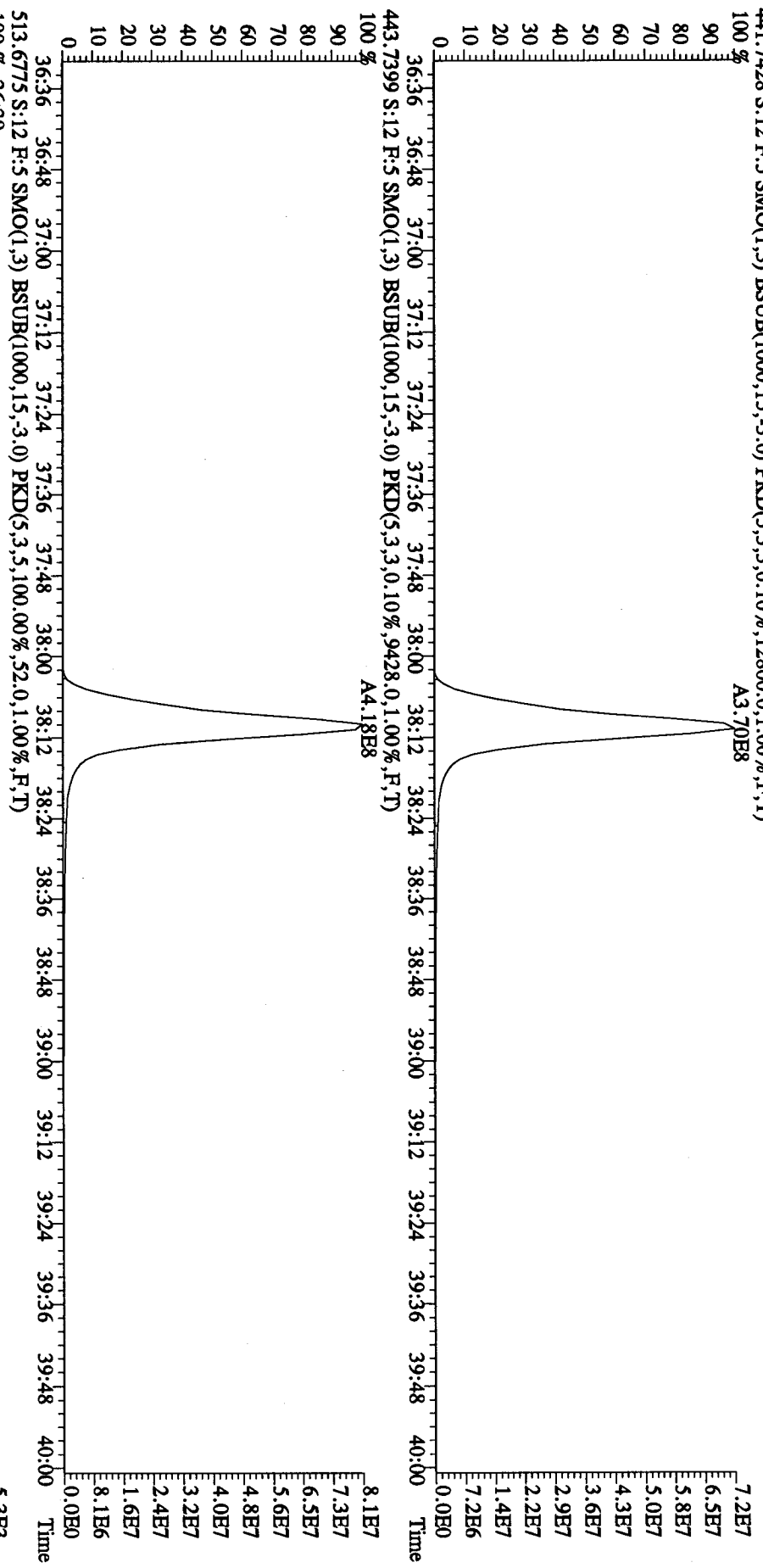


File: 22DE09A4D5 #1-198 Acq: 23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-UltimaE

Sample#12 Text: LQ2K9-2-AC :G9L120491-4RX Exp: DIOXIN



File:22DDE09A4D5 #1-282 Acq:23-DEC-2009 05:30:32 GC EI + Voltage SIR Autospec-UltimaE
 Sample#12 Text:LO2K9-2-AC :G9L120491-4RX Exp:DIOXIN
 441.7428 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12800,0,1.00%,F,T)
 A3.70E8



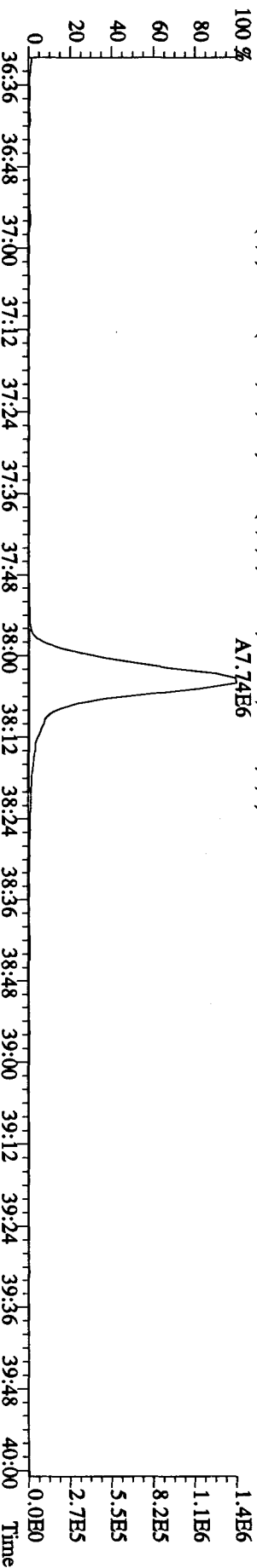
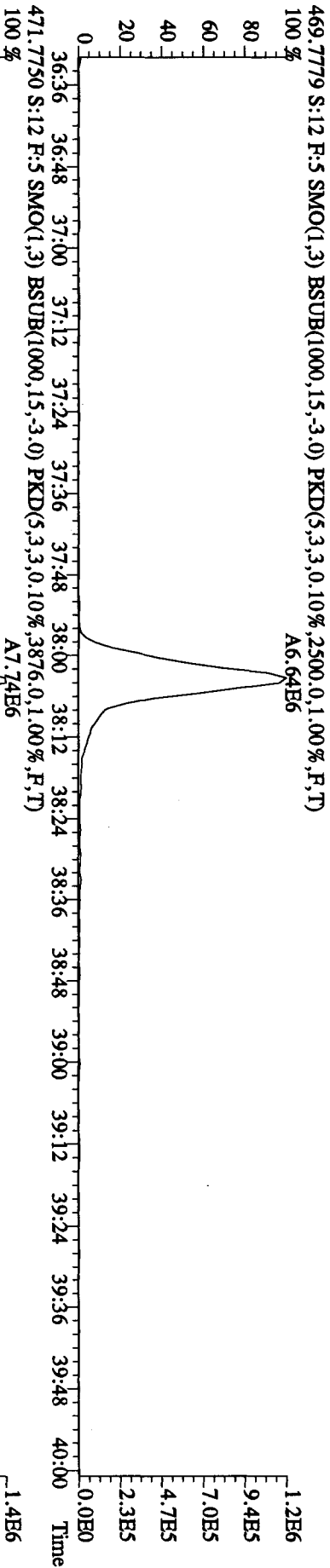
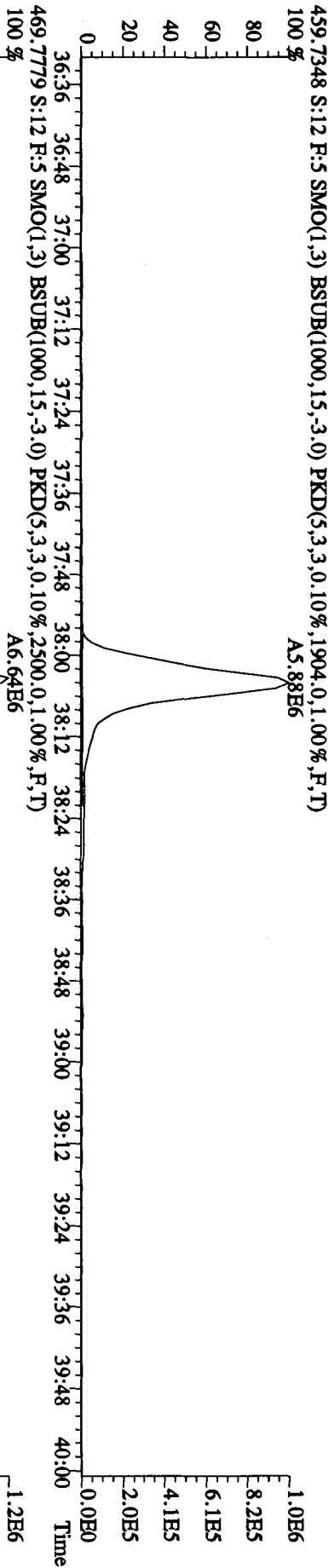
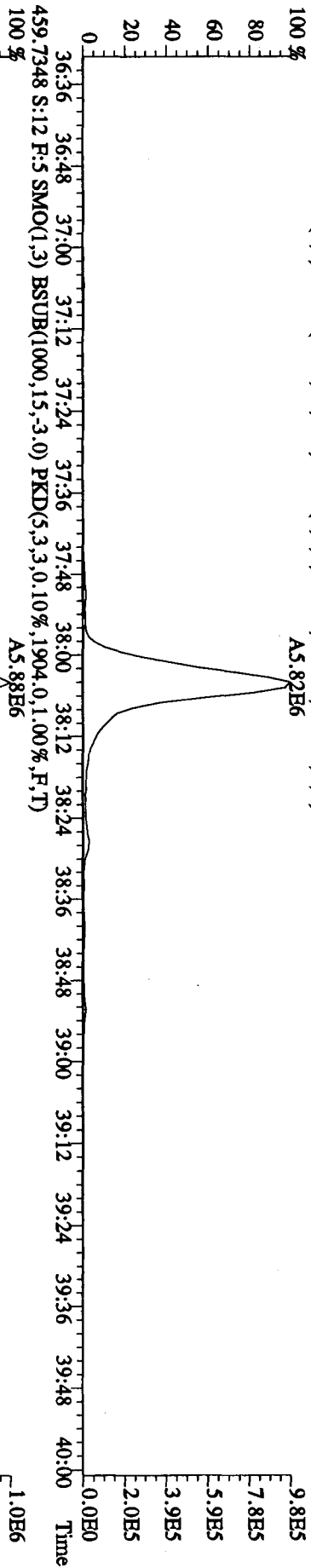
File: 22DE09A4D5 #1-282 Acq: 23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-UltimaB

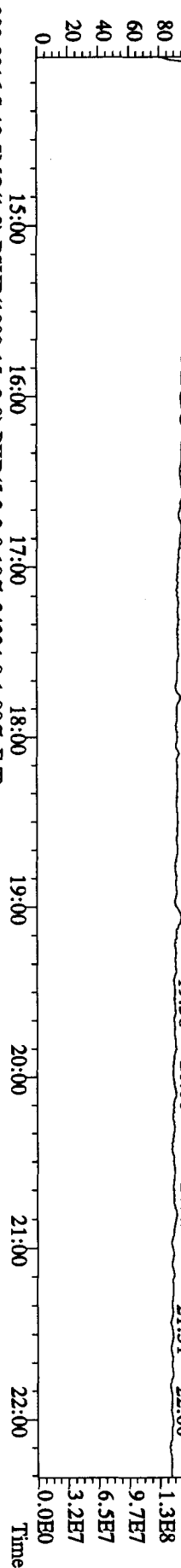
Sample#12 Text: LQ2K9-2-AC :G9L120491-4RX

Exp: DIOXIN

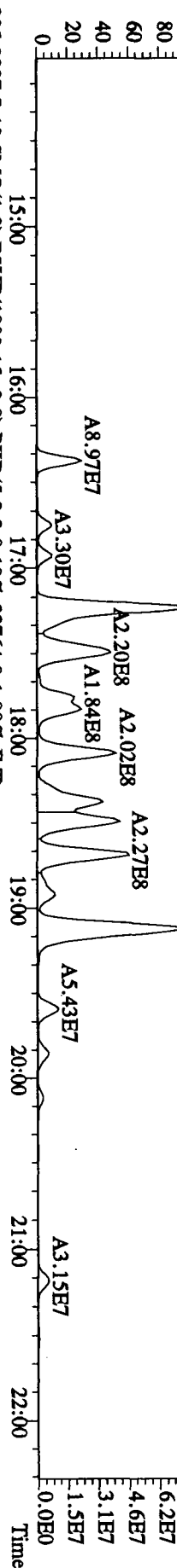
457.7377 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2192.0,1.00%,F,T)

A5.82E6

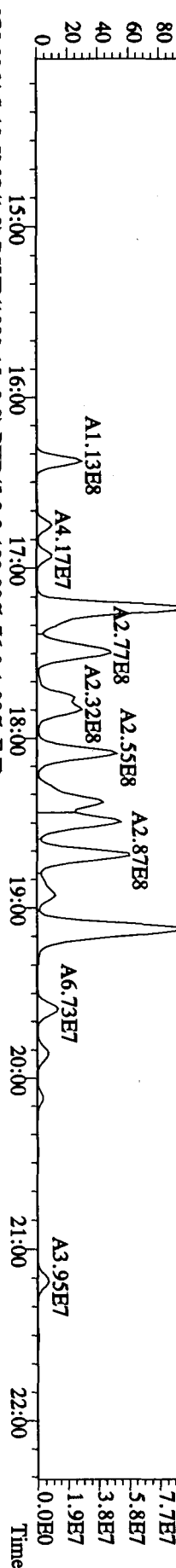




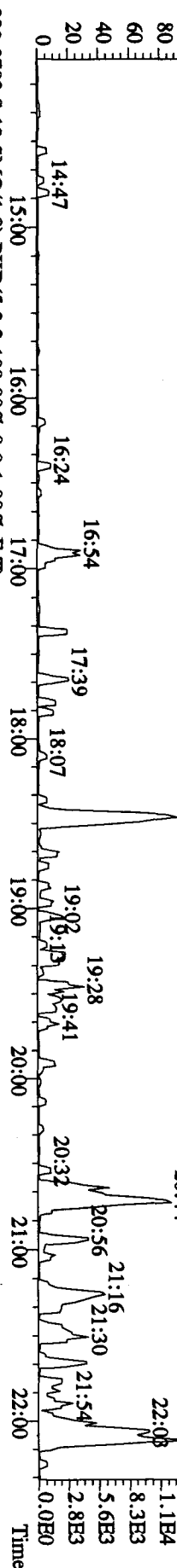
303.9016 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,24224,0,1.00%,F,T)



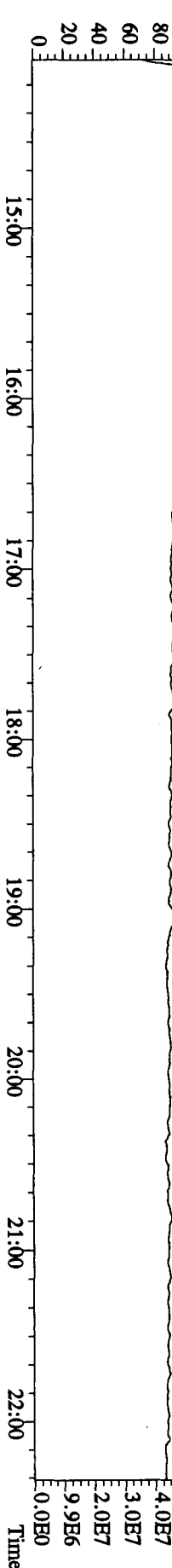
305.8987 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,22764,0,1.00%,F,T)



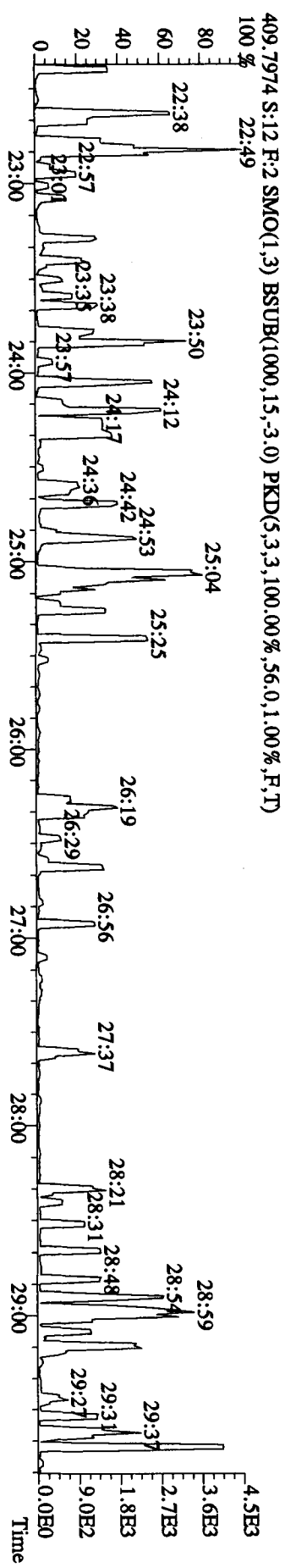
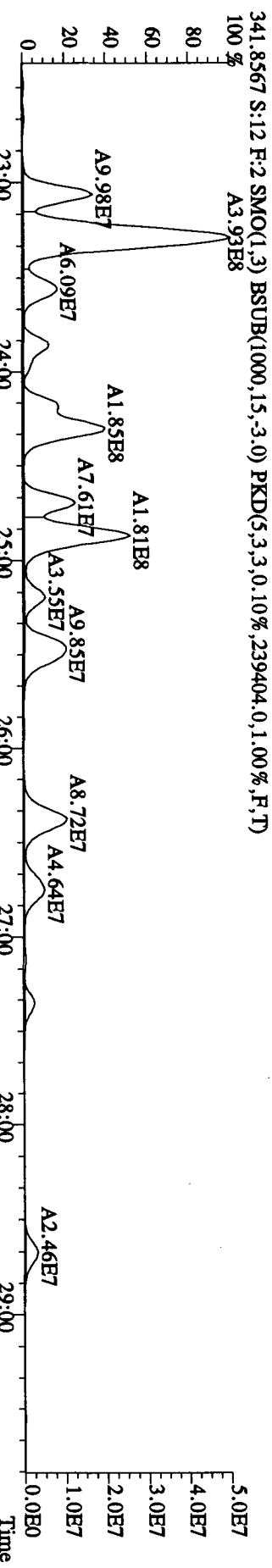
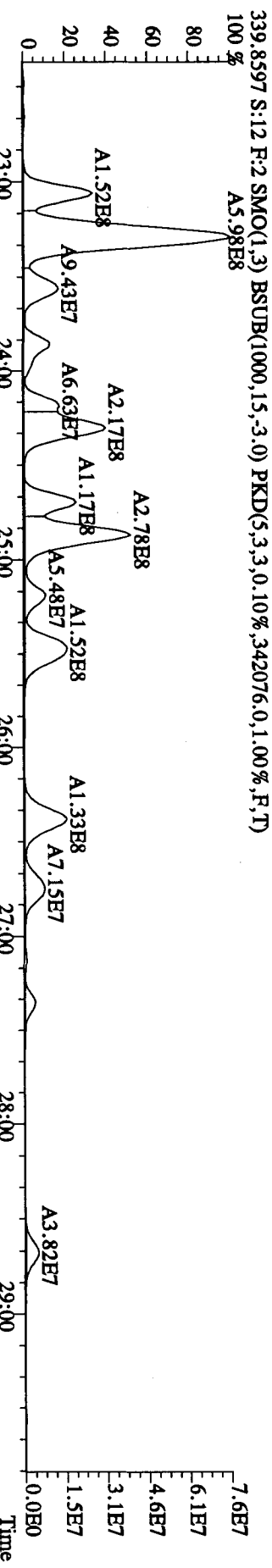
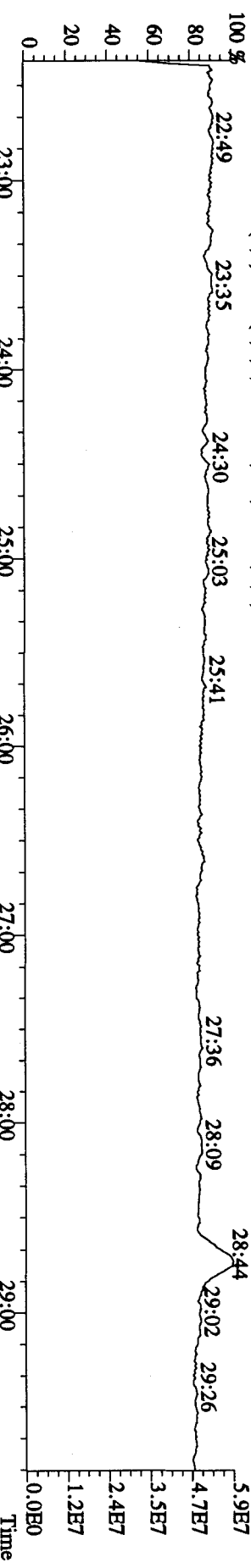
375.8364 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,76,0,1.00%,F,T)



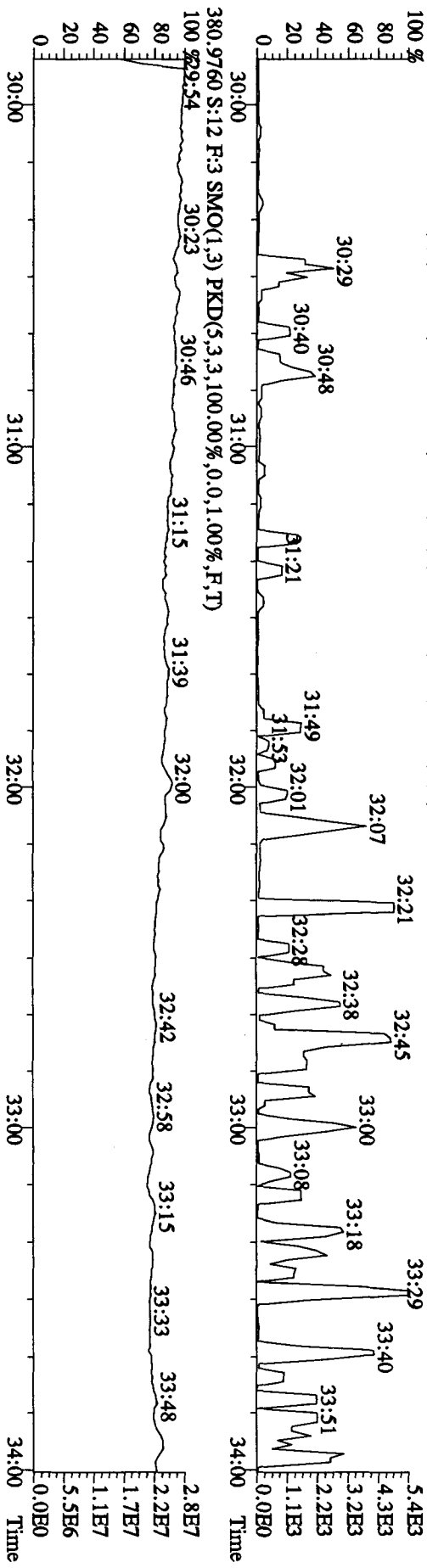
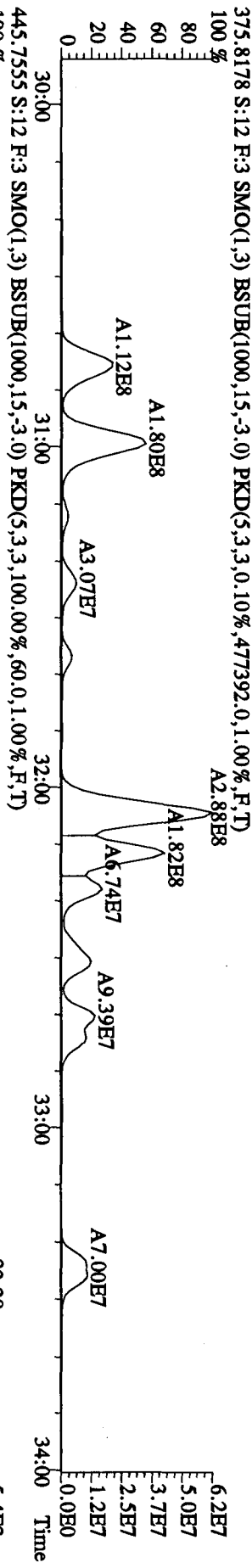
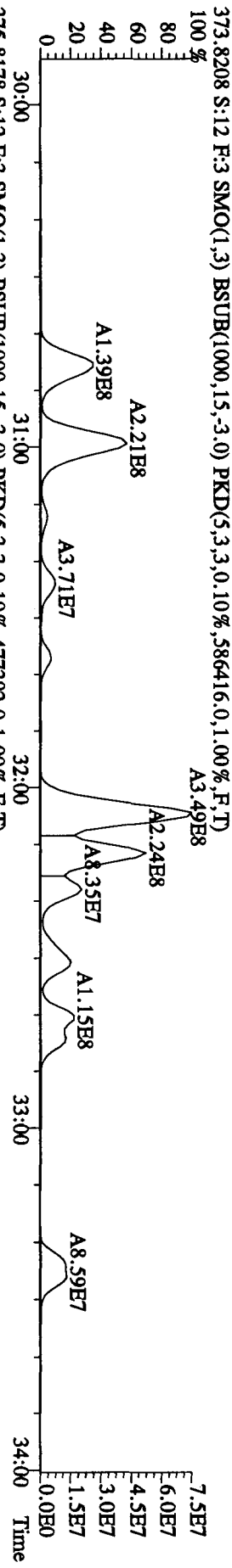
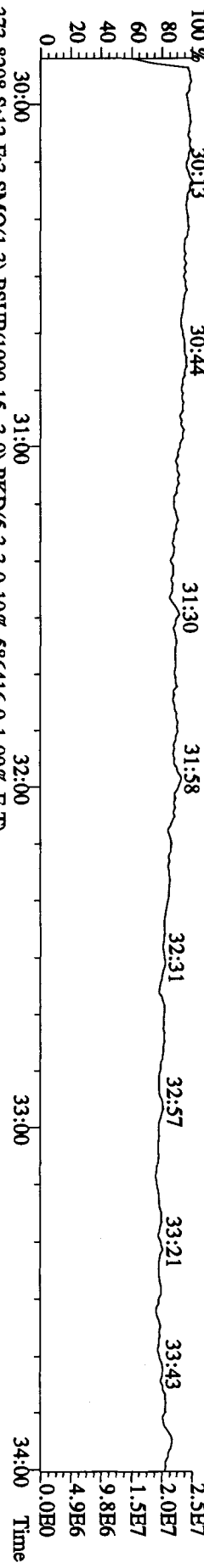
330.9792 S:12 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)



File:22DE09A4D5 #1-596 Acq:23-DEC-2009 05:30:32 GC EI + Voltage SIR Autospec-UltimaE
 Sample#12 Text:LO2K9-2-AC :G9L120491-4RX Exp:DIOXIN
 342.9792 S:12 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 409.7974 S:12 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,56.0,1.00%,F,T)



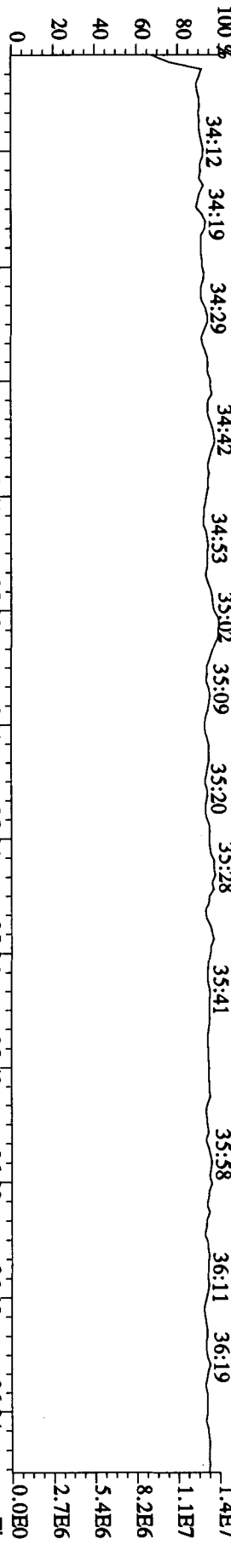
File: 22DE09A4D5 #1-314 Acq: 23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#12 Text: LQ2K9-2-AC :G9L120491-4RX Exp: DIOXIN
 392.9760 S:12 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 380.9760 S:12 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



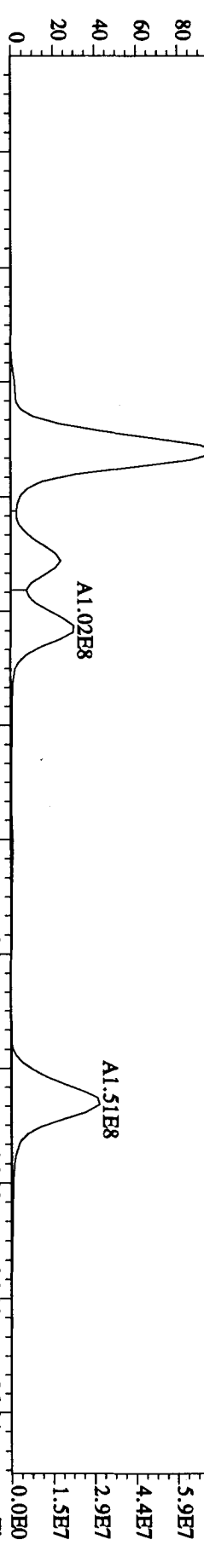
File:22DB09AD5 #1-198 Acq:23-DEC-2009 05:30:32 GC EI+ Voltage SIR Autospec-UltimaE

Sample#12 Text:LO2K9-2-AC :G9L120491-4RX Exp:DIOXIN

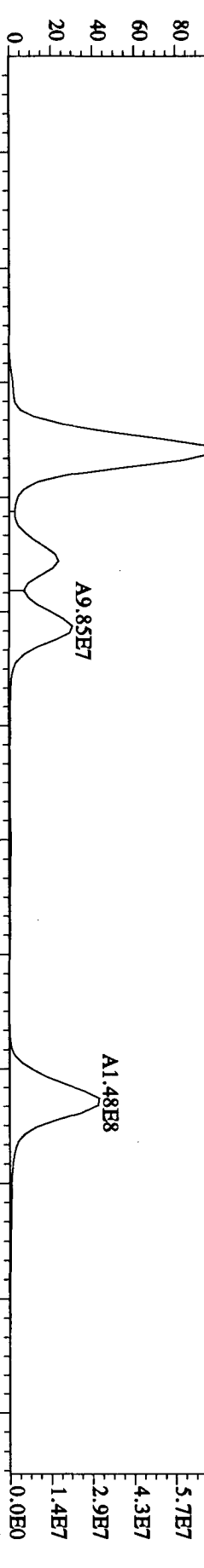
430.9728 S:12 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



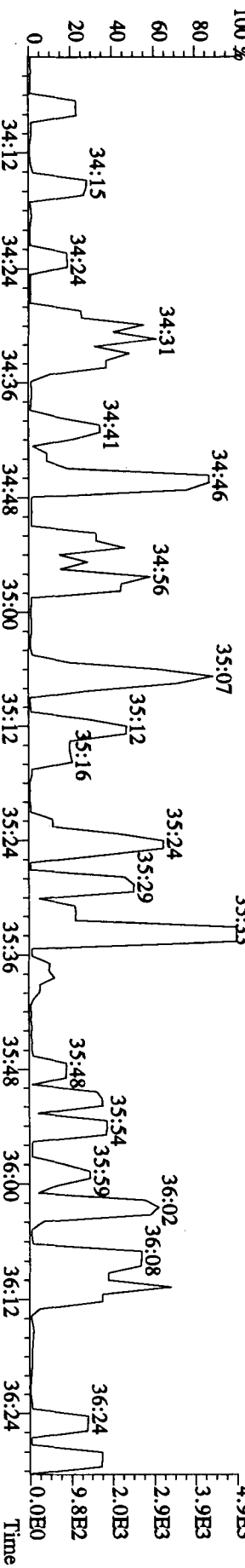
407.7818 S:12 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,64236,0,1,00%,F,T)



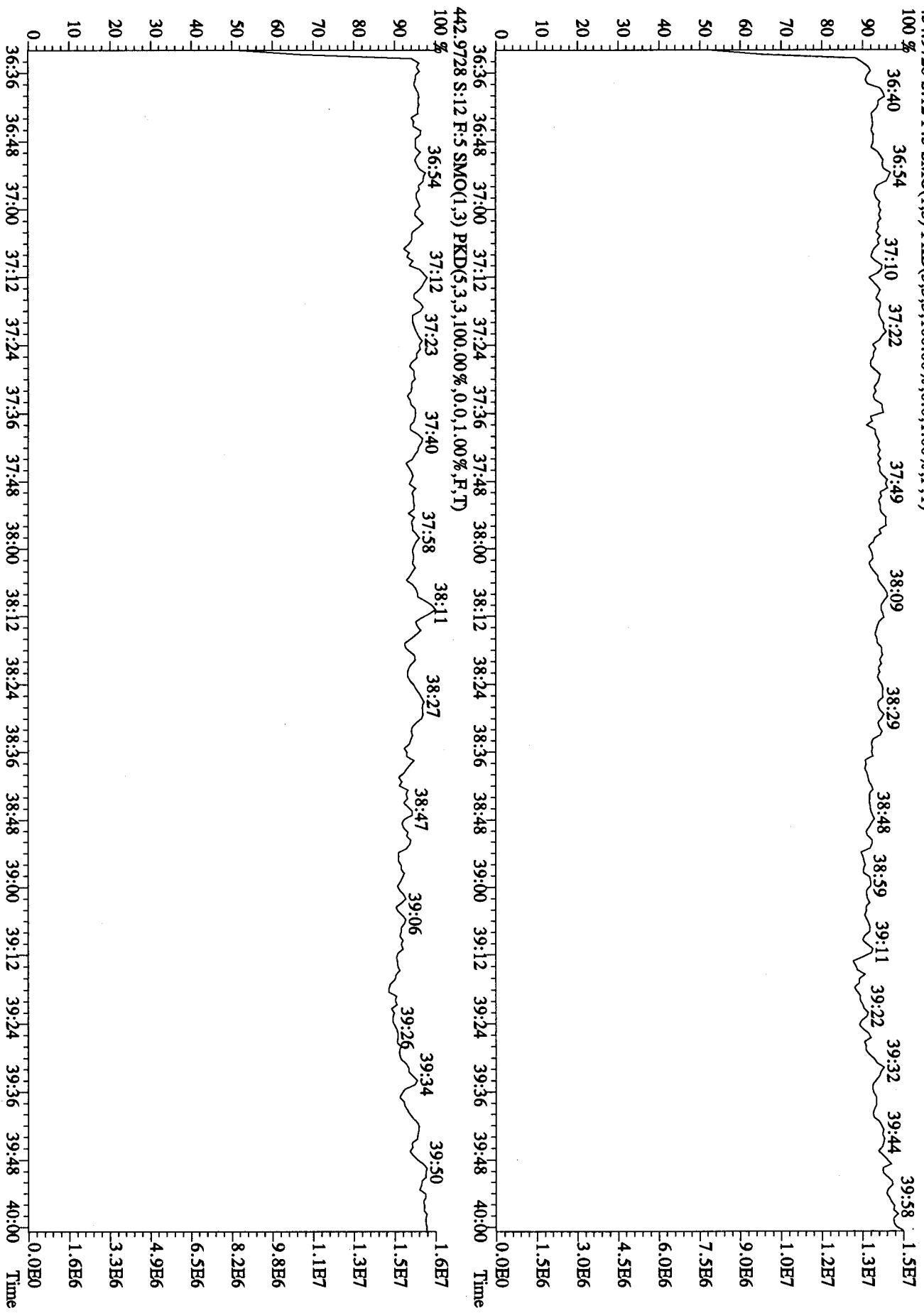
409.7789 S:12 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,65128,0,1,00%,F,T)



479.7165 S:12 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,56,0,1,00%,F,T)



File:22DE09A4D5 #1-282 Acq:23-DEC-2009 05:30:32 GC EI + Voltage SIR Autospec-UtimaE
 Sample#12 Text:LQ2K9-2-AC :G9L120491-4RX Exp:DIOXIN
 454.9728 S:12 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

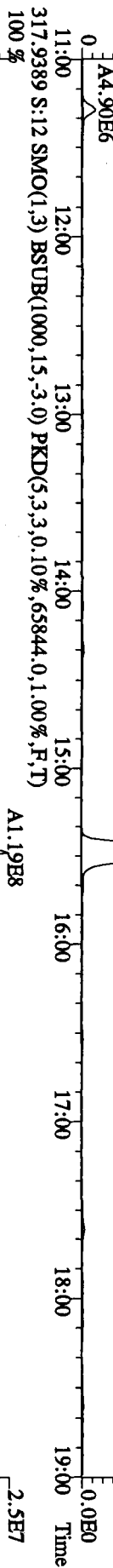
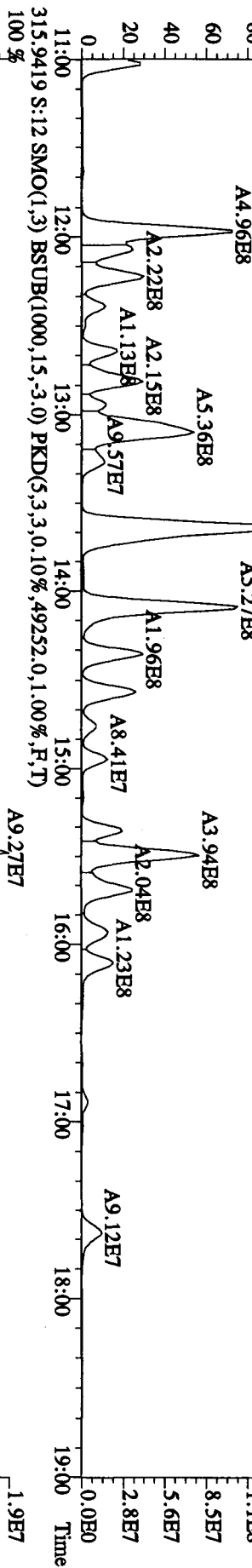
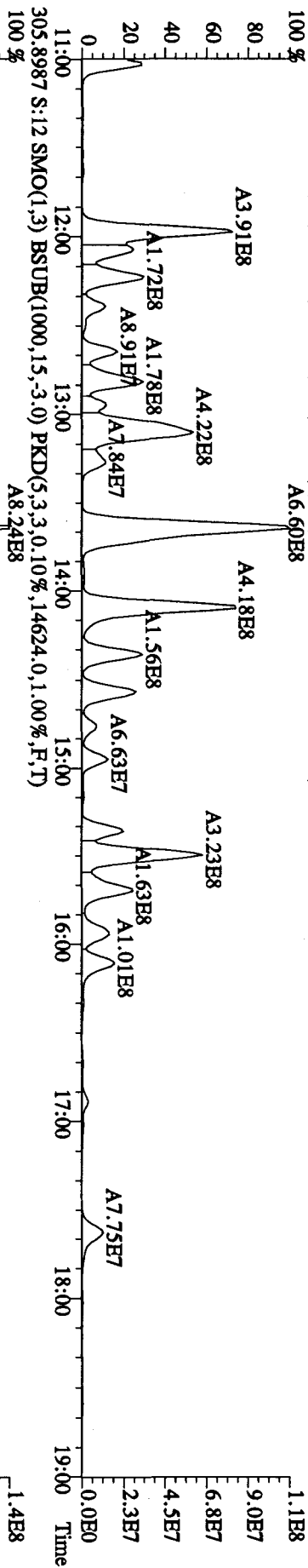


Run text: LQ2K9-2-AC Sample text: LQ2K9-2-AC :G9L120491-4RX
 Run #16 Filename: 23DE095D2 S: 12 I: 1 Results: 23DE095D2DB225
 Acquired: 23-DEC-09 15:40:59 Processed: 23-DEC-09 16:00:49
 Run: 23DE095D2 Analyte: DB225HRS Cal: DB2251021095D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.4000g

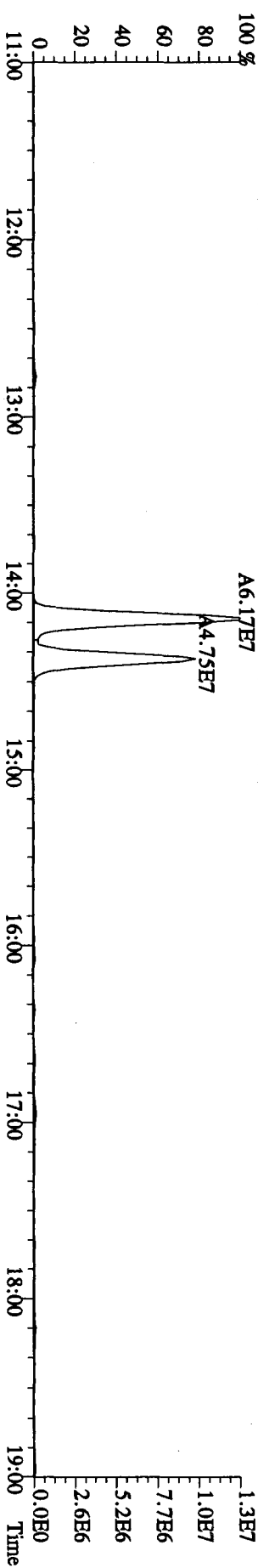
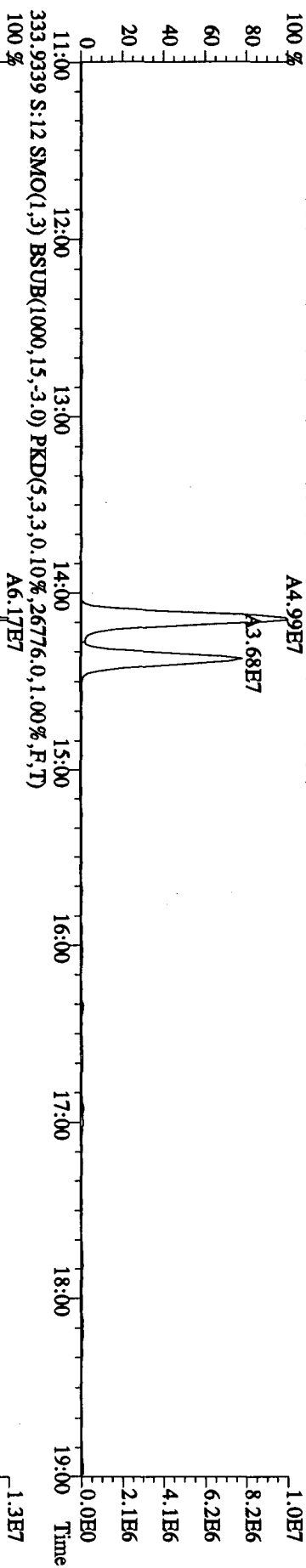
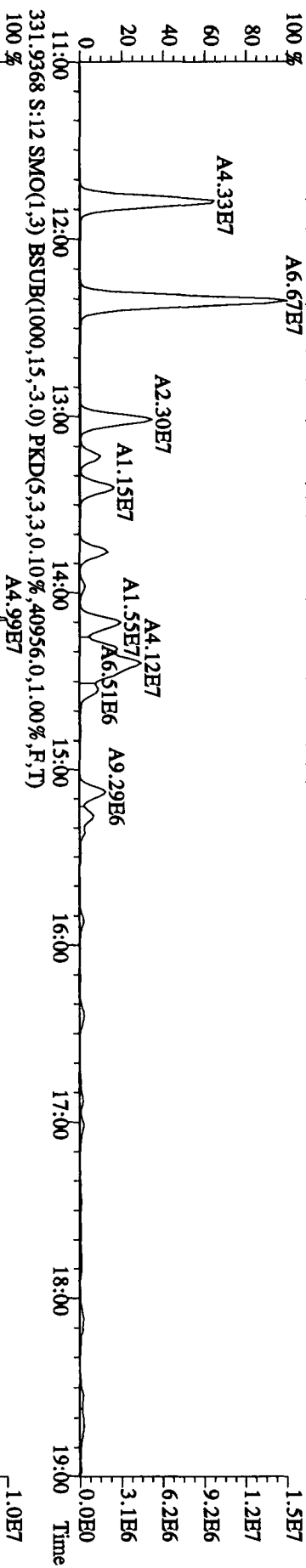
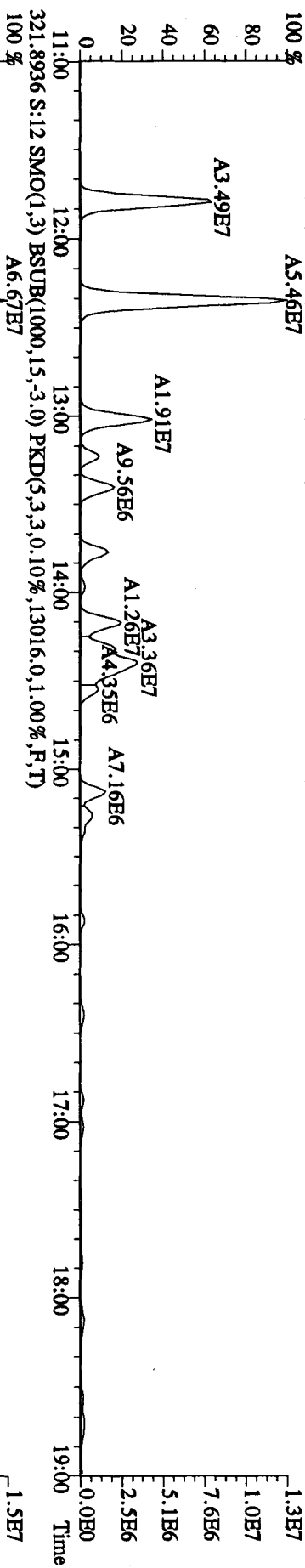
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	84385200	0.77 y	14:22	-	5.34	-	-	n
13C-2,3,7,8-TCDF	211521032	0.78 y	15:29	1.98	122.01	0.88	63.4	n
2,3,7,8-TCDF	717582816	0.82 y	15:30	1.18	552.97 ^E	0.46 [/]	-	n
13C-2,3,7,8-TCDD	111714032	0.81 y	14:09	0.97	131.11	1.04	68.2	n
2,3,7,8-TCDD	28085680	0.81 y	14:10	1.51	32.10	0.42	-	n
37Cl-2,3,7,8-TCDD	150129088	1.00 y	14:10	2.70	63.25	0.40	82.2	n

05
12-28-09

File: 23DDE095D2 #1-1242 Acq: 23-DEC-2009 15:40:59 GC EI+ Voltage SIR 70SE
 Sample#12 Text: LQ2K9-2-AC : G9L120491-4RX Exp: DB225
 303.9016 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,19492,0,1,00%,F,T)
 100%



File:23DBE095D2 #1-1242 Acq:23-DEC-2009 15:40:59 GC EI+ Voltage SIR 70SE
 Sample#12 Text:LQ2K9-2-AC :G9L120491-4RX Exp:DB225
 319.8965 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,41020.0,1.00%,F,T) 100% A5.46E7



File: 23DB095D2 #1-1242 Acq: 23-DBC-2009 15:40:59 GC EI+ Voltage SIR 70SE

Sample#12 Text: LQ2K9-2-AC : G9L120491-4RX Exp: DB225

327.8840 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,34680,0.1,00%,F,T)

100% A7.51E7



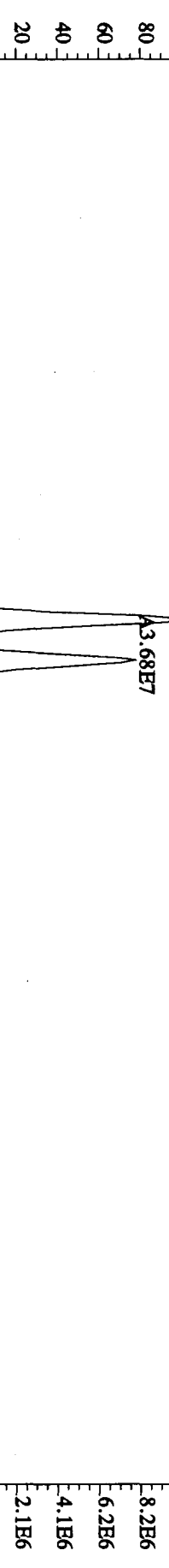
333.9339 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,26776,0.1,00%,F,T)

100% A6.17E7



331.9368 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,40956,0.1,00%,F,T)

100% A4.99E7



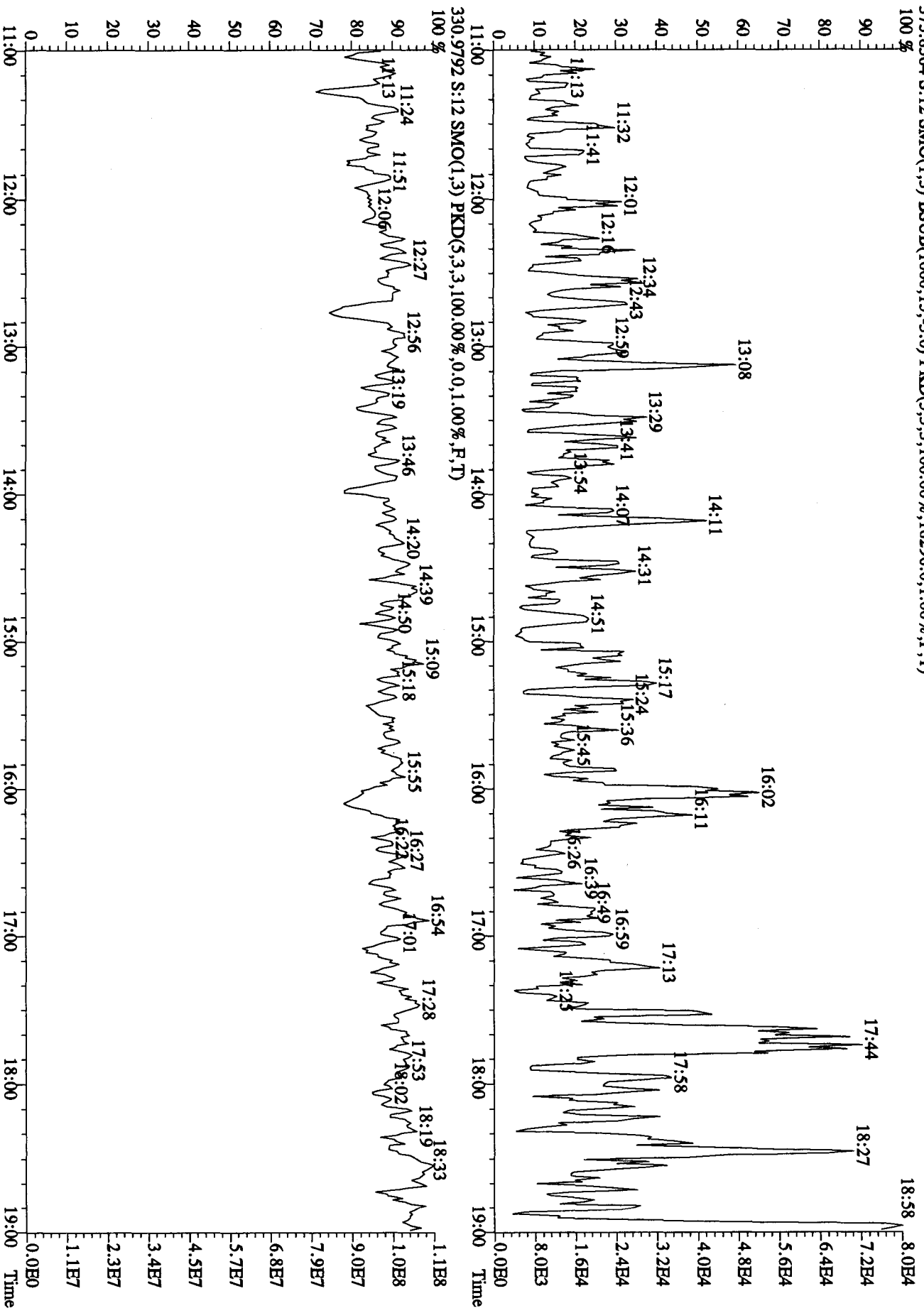
333.9339 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,26776,0.1,00%,F,T)

100% A4.75E7



0.0E0 1.6E7 1.3E7 9.7E6 6.5E6 3.2E6 0.0E0 0.0E0 2.6E6 5.2E6 7.7E6 1.0E7 1.3E7

File: 23DE095D2 #1-1242 Acq: 23-DEC-2009 15:40:59 GC: HI + Voltage SIR 70SE
 Sample#12 Text: LO2K9-2-AC : G9L120491-4RX Exp: DB225
 375.8364 S:12 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100%



Run text: LQ2LA-2-AC Sample text: LQ2LA-2-AC :G9L120491-5RX
 Run #17 Filename: 22DE09A4D5 S: 13 I: 1 Results: 22de09a4d582900S
 Acquired: 23-DEC-09 06:14:34 Processed: 23-DEC-09 08:38:25
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 10.19 g

05
12-28-09

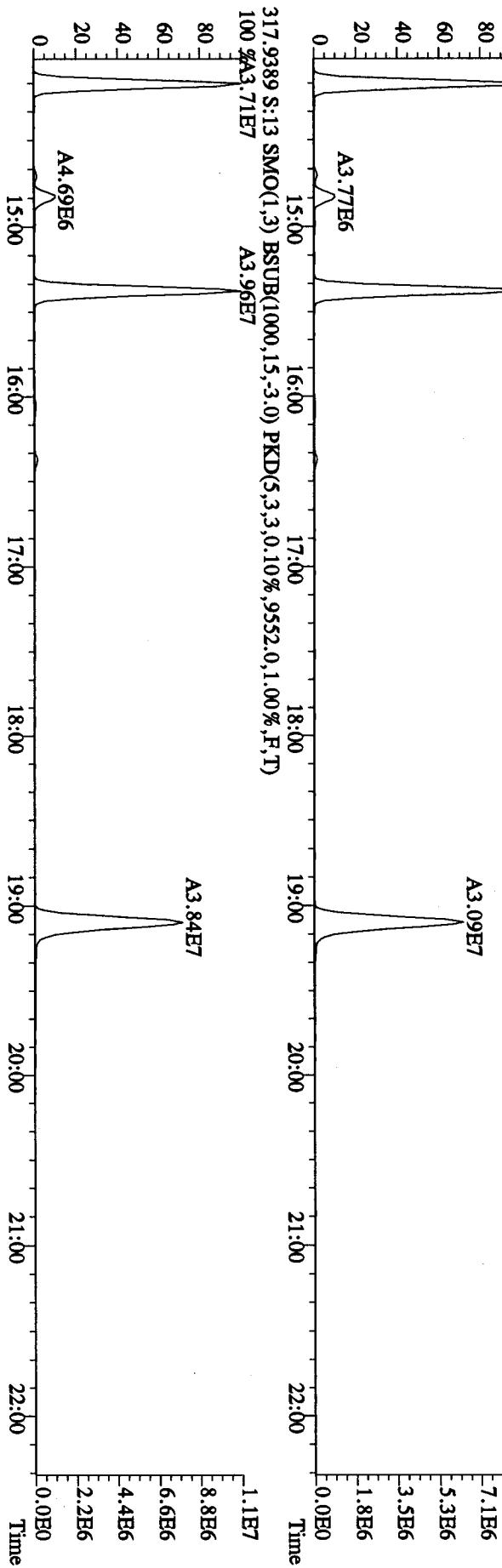
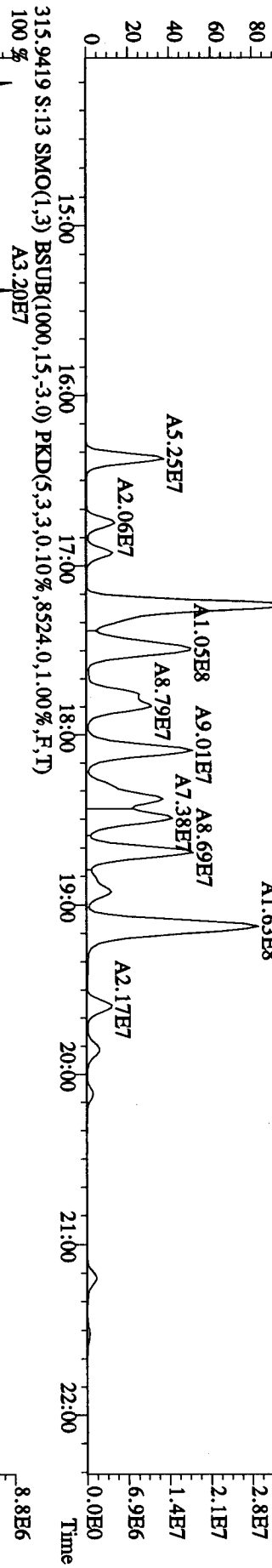
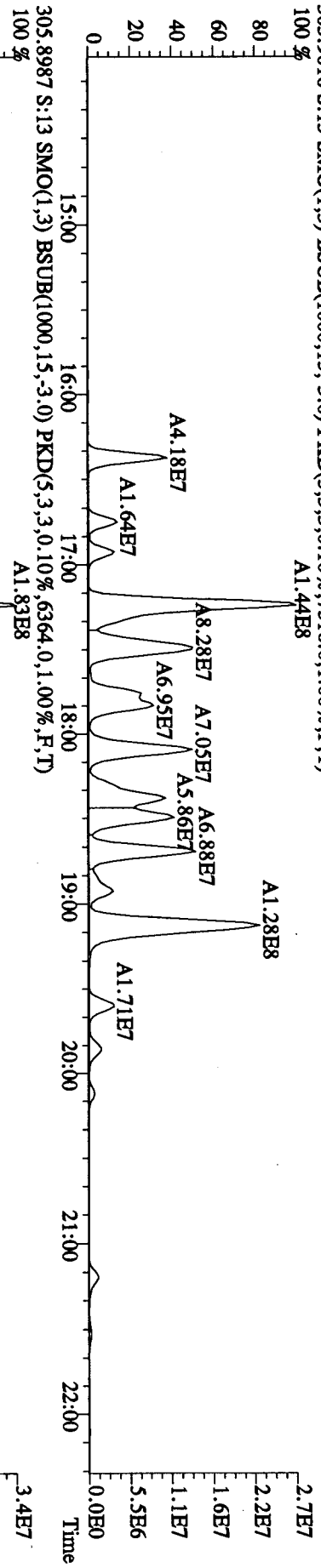
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	29034700	0.80 y	19:40	-	1.592	-	-	n
13C-2,3,7,8-TCDF	69303100	0.80 y	19:06	1.46	160.578	0.619	81.8	n
2,3,7,8-TCDF	291309000	0.79 y	19:08	1.27	647.949	0.455	-	n
Total TCDF	1860416304	0.72 y	16:01	1.27	4138.061	0.455	-	n
13C-2,3,7,8-TCDD	38145500	0.81 y	19:54	0.92	139.697	0.476	71.2	n
2,3,7,8-TCDD	2735450	0.87 y	19:55	1.23	11.472	0.334	-	n
Total TCDD	112964696	0.25 n	16:44	1.23	473.741	0.334	-	n
37Cl-2,3,7,8-TCDD	50582800	1.00 y	19:55	2.52	67.966	0.416	86.6	n
13C-1,2,3,7,8-PeCDF	45020900	1.55 y	24:51	1.27	120.116	0.669	61.2	n
1,2,3,7,8-PeCDF	171945700	1.51 y	24:53	1.30	575.870	17.070 G	-	n
2,3,4,7,8-PeCDF	83242900	1.54 y	26:24	1.25	290.352	17.777 G	-	n
Total F2 PeCDF	1357337970	1.52 y	23:04	1.28	4632.442	17.416	-	n
Total F1 PeCDF	108962723	1.62 y	20:34	1.28	372.343	1.535	-	n
13C-1,2,3,7,8-PeCDD	25192730	1.55 y	27:12	0.77	110.240	0.693	56.2	n
1,2,3,7,8-PeCDD	6480020	1.62 y	27:14	1.24	40.666	1.273	-	n
Total PeCDD	90498188	1.57 y	23:30	1.24	567.935	1.273	-	n
13C-1,2,3,7,8,9-HxCDD	18351340	1.37 y	33:13	-	1.018	-	-	n
13C-1,2,3,4,7,8-HxCDF	34636700	0.51 y	32:05	1.19	156.007	1.791	79.5	n
1,2,3,4,7,8-HxCDF	264998000	1.21 y	32:05	1.31	1148.643 E	6.272 G	-	y
1,2,3,6,7,8-HxCDF	193909700	1.22 y	32:12	1.41	778.045	5.806 G	-	n
2,3,4,6,7,8-HxCDF	38284200	1.30 y	32:45	1.33	162.612	6.146 G	-	y
1,2,3,7,8,9-HxCDF	16134320	1.16 y	33:24	1.20	76.475	6.858 G	-	y
Total HxCDF	1197827811	1.23 y	30:46	1.31	5121.499	6.248	-	y
13C-1,2,3,6,7,8-HxCDD	20000000	1.31 y	32:57	0.75	143.228	3.462	73.0	n
1,2,3,4,7,8-HxCDD	3366420	1.18 y	32:53	1.24	26.593	0.792	-	y
1,2,3,6,7,8-HxCDD	10305480	1.22 y	32:57	1.48	68.358	0.665	-	y
1,2,3,7,8,9-HxCDD	9859740	1.27 y	33:14	1.47	65.704	0.668	-	y
Total HxCDD	73536913	1.21 y	31:32	1.40	511.643	0.704	-	y
13C-1,2,3,4,6,7,8-HpCDF	25442860	0.44 y	34:43	0.91	148.951	2.122	75.9	n
1,2,3,4,6,7,8-HpCDF	537307000	1.02 y	34:44	1.59	2598.829 E	4.154 G	-	n
1,2,3,4,7,8,9-HpCDF	170806400	1.02 y	35:52	1.33	989.685 E	4.976 G	-	n
Total HpCDF	1006007235	1.02 y	34:44	1.46	5159.120	4.528	-	n
13C-1,2,3,4,6,7,8-HpCDD	18531710	1.08 y	35:32	0.71	138.832	2.691	70.7	n
1,2,3,4,6,7,8-HpCDD	27678500	1.03 y	35:32	1.31	224.228	1.222	-	n
Total HpCDD	42465945	0.30 n	34:34	1.31	344.023	1.222	-	n
13C-OCDD	22383800	0.84 y	38:04	0.61	197.556	1.207	50.3	n

OCDF	746952000	0.89	y	38:11	1.51	8679.447	E	4.119	-	n
OCDD	14987070	0.92	y	38:05	1.19	220.202	/	0.884	-	n

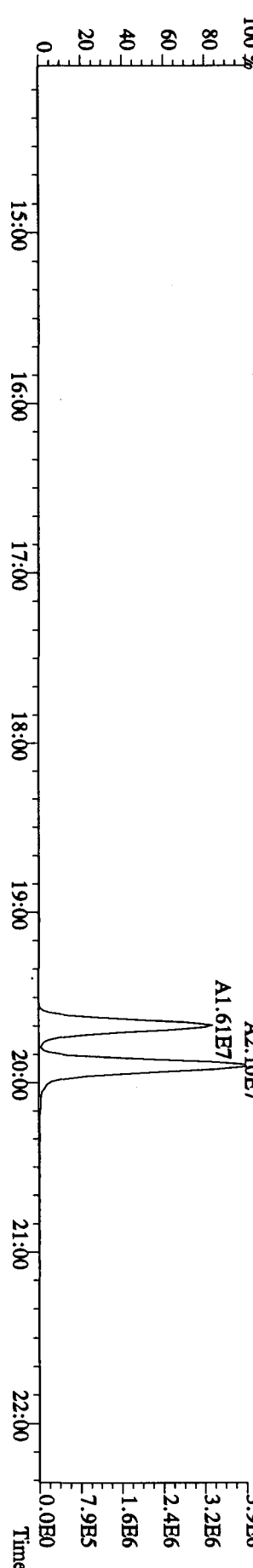
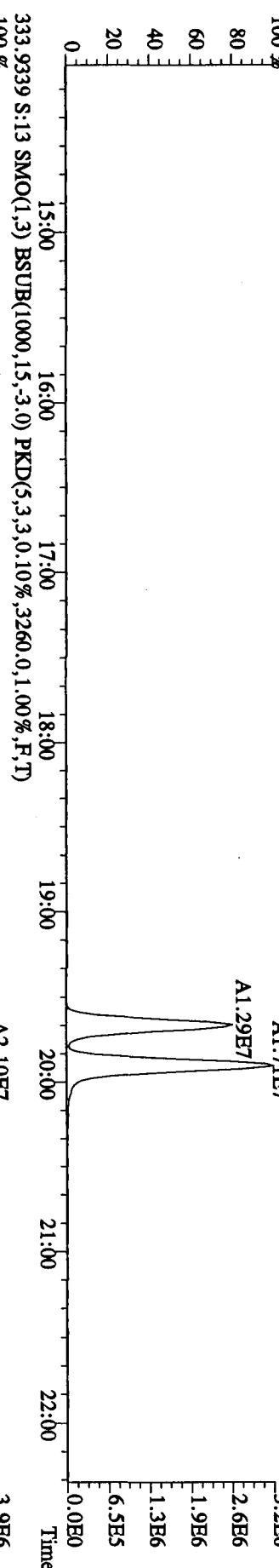
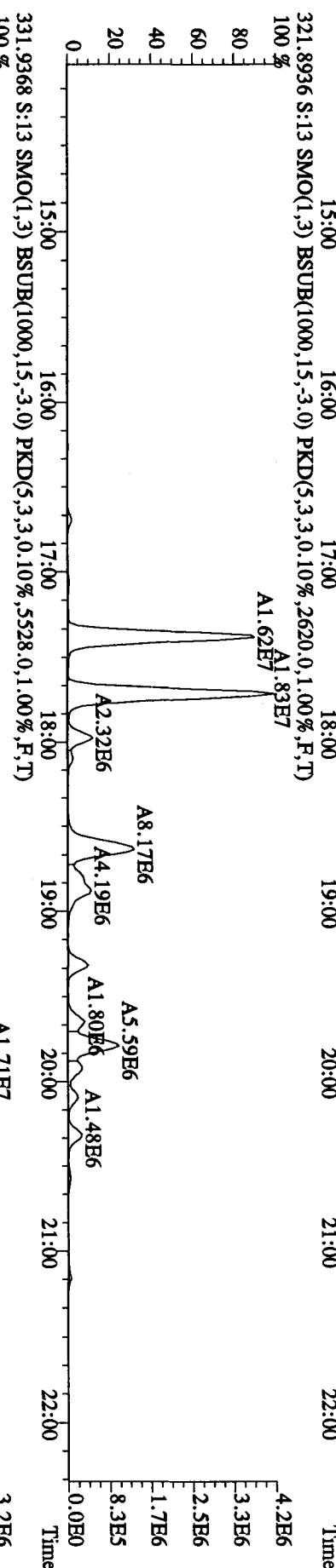
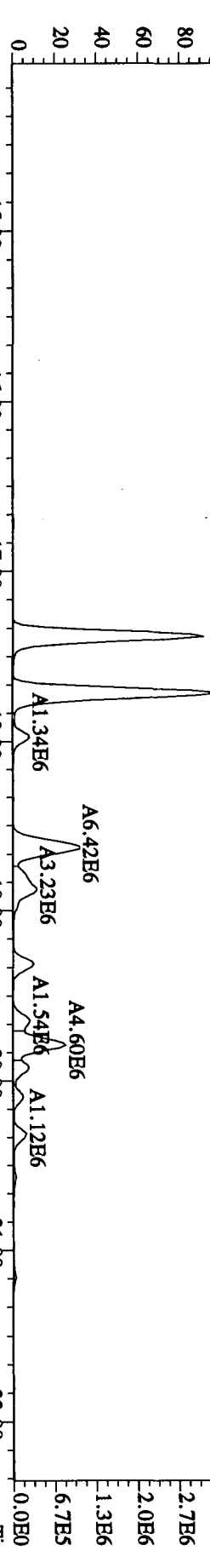
Run text: LQ2LA-2-AC Sample text: LQ2LA-2-AC :G9L120491-5RX
 Run #17 Filename: 22DE09A4D5 S: 13 I: 1 Results: 22DE09A4D58290
 Acquired: 23-DEC-09 06:14:34 Processed: 23-DEC-09 08:38:25
 Run: 22DE09A4D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.1900µg

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	29034675	0.80 y	19:40	-	1.59	-	-	n
13C-2,3,7,8-TCDF	69303096	0.80 y	19:06	1.46	160.58	0.62	81.8	n
2,3,7,8-TCDF	291309160	0.79 y	19:08	1.27	647.95	0.45	-	n
Total TCDF	1860416756	0.72 y	16:01	1.27	4138.06	0.45	-	n
13C-2,3,7,8-TCDD	38145448	0.81 y	19:54	0.92	139.70	0.48	71.2	n
2,3,7,8-TCDD	2735446	0.87 y	19:55	1.23	11.47	0.33	-	n
Total TCDD	112964783	0.25 n	16:44	1.23	473.74	0.33	-	n
37Cl-2,3,7,8-TCDD	50582880	1.00 y	19:55	2.52	67.97	0.42	86.6	n
13C-1,2,3,7,8-PeCDF	45020974	1.55 y	24:51	1.27	120.12	0.67	61.2	n
1,2,3,7,8-PeCDF	171945664	1.51 y	24:53	1.30	575.87	17.07	-	n
2,3,4,7,8-PeCDF	83242934	1.54 y	26:24	1.25	290.35	17.78	-	n
Total F2 PeCDF	1357338041	1.52 y	23:04	1.28	4632.43	17.42	-	n
Total F1 PeCDF	108962708	1.62 y	20:34	1.28	372.34	1.54	-	n
13C-1,2,3,7,8-PeCDD	25192685	1.55 y	27:12	0.77	110.24	0.69	56.2	n
1,2,3,7,8-PeCDD	6480018	1.62 y	27:14	1.24	40.67	1.27	-	n
Total PeCDD	90498233	1.57 y	23:30	1.24	567.94	1.27	-	n
13C-1,2,3,7,8,9-HxCDD	18351359	1.37 y	33:13	-	1.02	-	-	n
13C-1,2,3,4,7,8-HxCDF	34636645	0.51 y	32:05	1.19	156.01	1.79	79.5	n
1,2,3,4,7,8-HxCDF	293295168	1.20 y	32:05	1.31	1271.30	6.27	-	n
1,2,3,6,7,8-HxCDF	193909496	1.22 y	32:12	1.41	778.05	5.81	-	n
2,3,4,6,7,8-HxCDF	94100768	1.24 y	32:41	1.33	399.69	6.15	-	n
1,2,3,7,8,9-HxCDF	59980934	1.23 y	33:26	1.20	284.30	6.86	-	n
Total HxCDF	1325787664	1.23 y	30:46	1.31	5689.07	6.25	-	n
13C-1,2,3,6,7,8-HxCDD	19999982	1.31 y	32:57	0.75	143.23	3.46	73.0	n
1,2,3,4,7,8-HxCDD	13512506	1.22 y	32:57	1.24	106.74	0.79	-	n
1,2,3,6,7,8-HxCDD	13512506	1.22 y	32:57	1.48	89.63	0.67	-	n
1,2,3,7,8,9-HxCDD	9744416	1.31 y	33:14	1.47	64.94	0.67	-	n
Total HxCDD	73308201	1.21 y	31:32	1.40	505.88	0.70	-	n
13C-1,2,3,4,6,7,8-HpCDF	25442895	0.44 y	34:43	0.91	148.95	2.12	75.9	n
1,2,3,4,6,7,8-HpCDF	537306976	1.02 y	34:44	1.59	2598.83	4.15	-	n
1,2,3,4,7,8,9-HpCDF	170806352	1.02 y	35:52	1.33	989.68	4.98	-	n
Total HpCDF	1006007239	1.02 y	34:44	1.46	5159.11	4.53	-	n
13C-1,2,3,4,6,7,8-HpCDD	18531711	1.08 y	35:32	0.71	138.83	2.69	70.7	n
1,2,3,4,6,7,8-HpCDD	27678463	1.03 y	35:32	1.31	224.23	1.22	-	n
Total HpCDD	42465904	0.30 n	34:34	1.31	344.02	1.22	-	n
13C-OCDD	22383788	0.84 y	38:04	0.61	197.56	1.21	50.3	n

OCDF	746951936	0.89	y	38:11	1.51	8679.45	4.12	-	n
OCDD	14987066	0.92	y	38:05	1.19	220.20	0.88	-	n

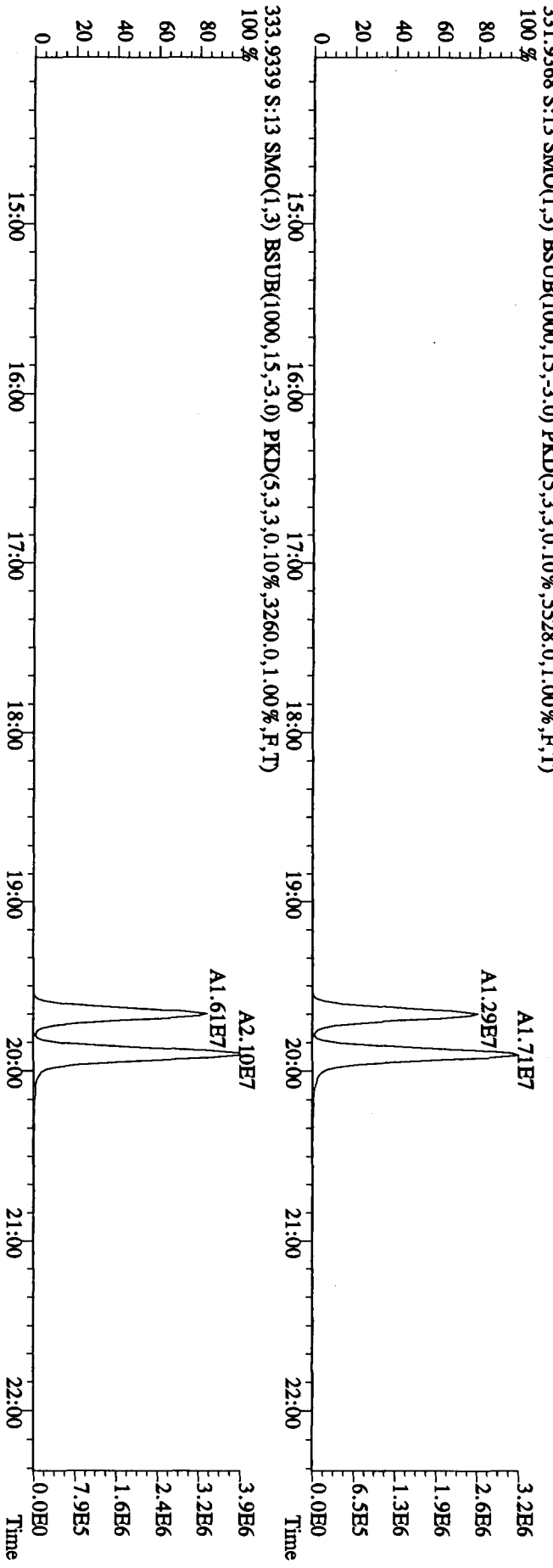
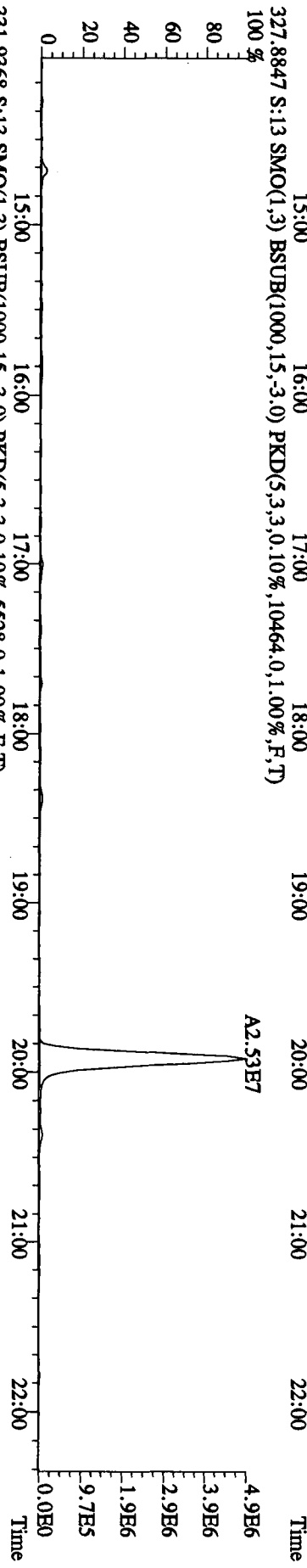
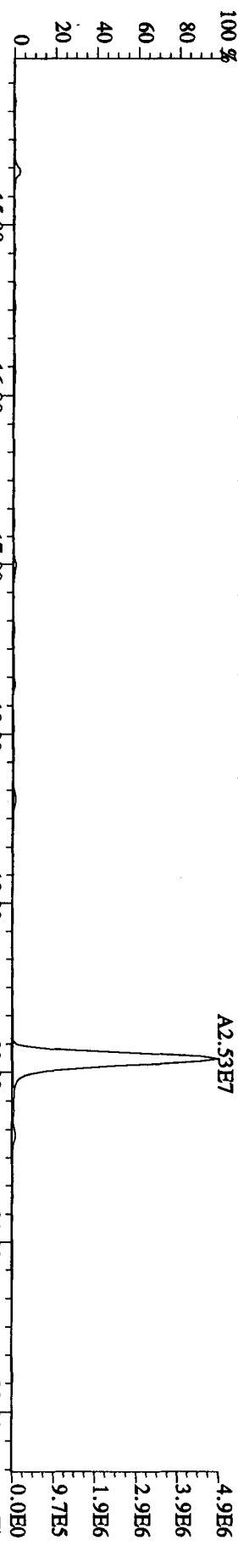


File:22DE09A4D5 #1-578 Acq:23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#13 Text:LQ2LA-2-AC :G9L120491-5RX Exp:DIOXIN
 319.8965 S:13 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2376,0,1,00%,F,T)
 100 %

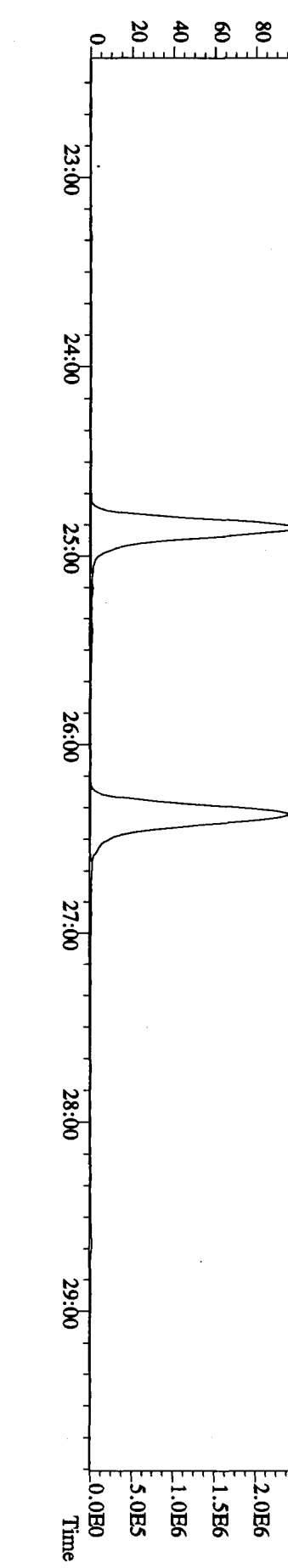
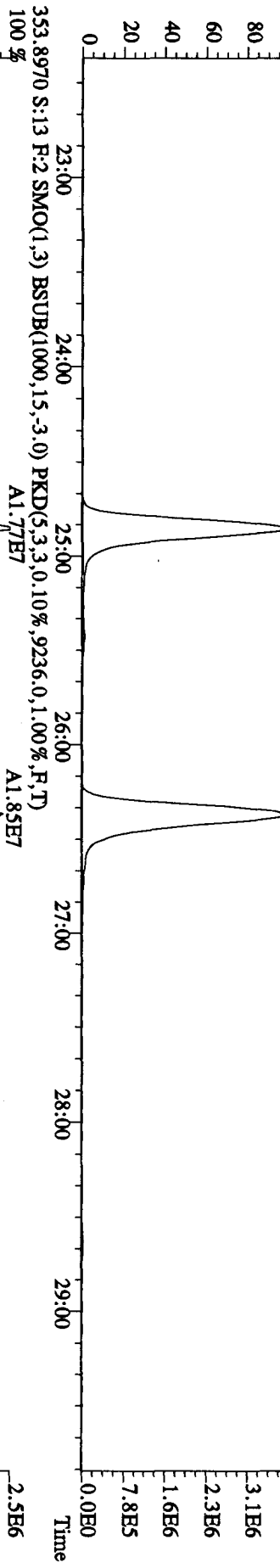
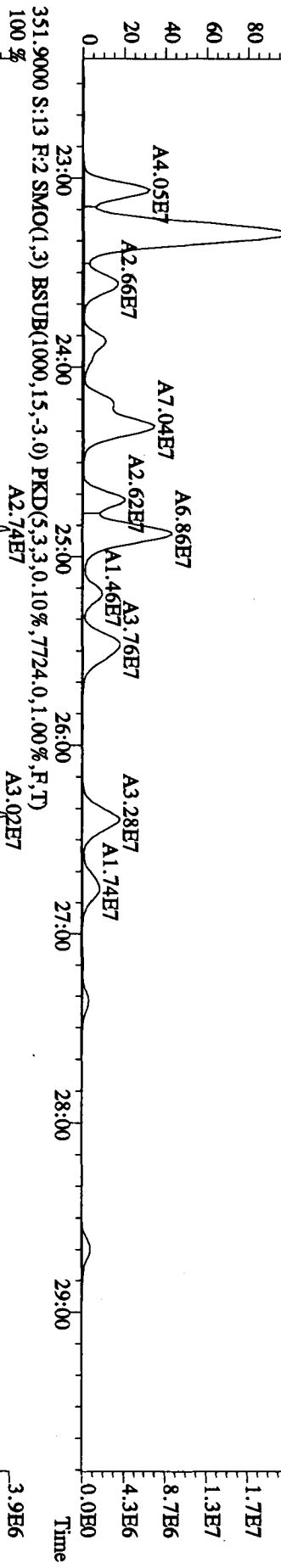
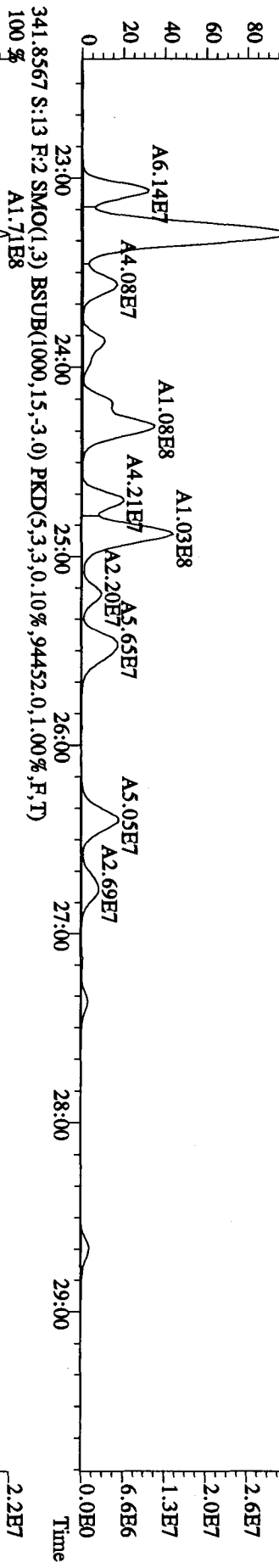


File:22DB09A4D5 #1-578 Acq:23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-Ultimate

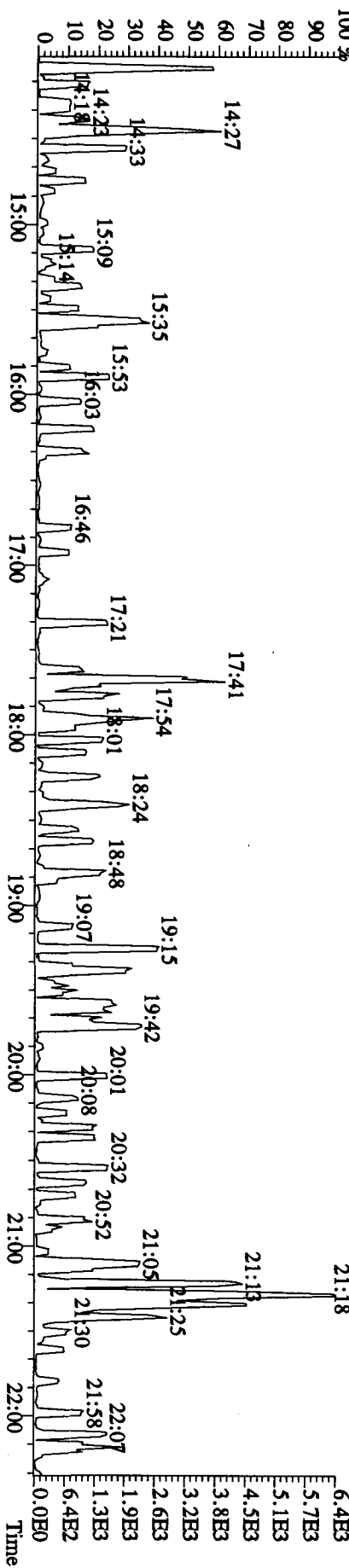
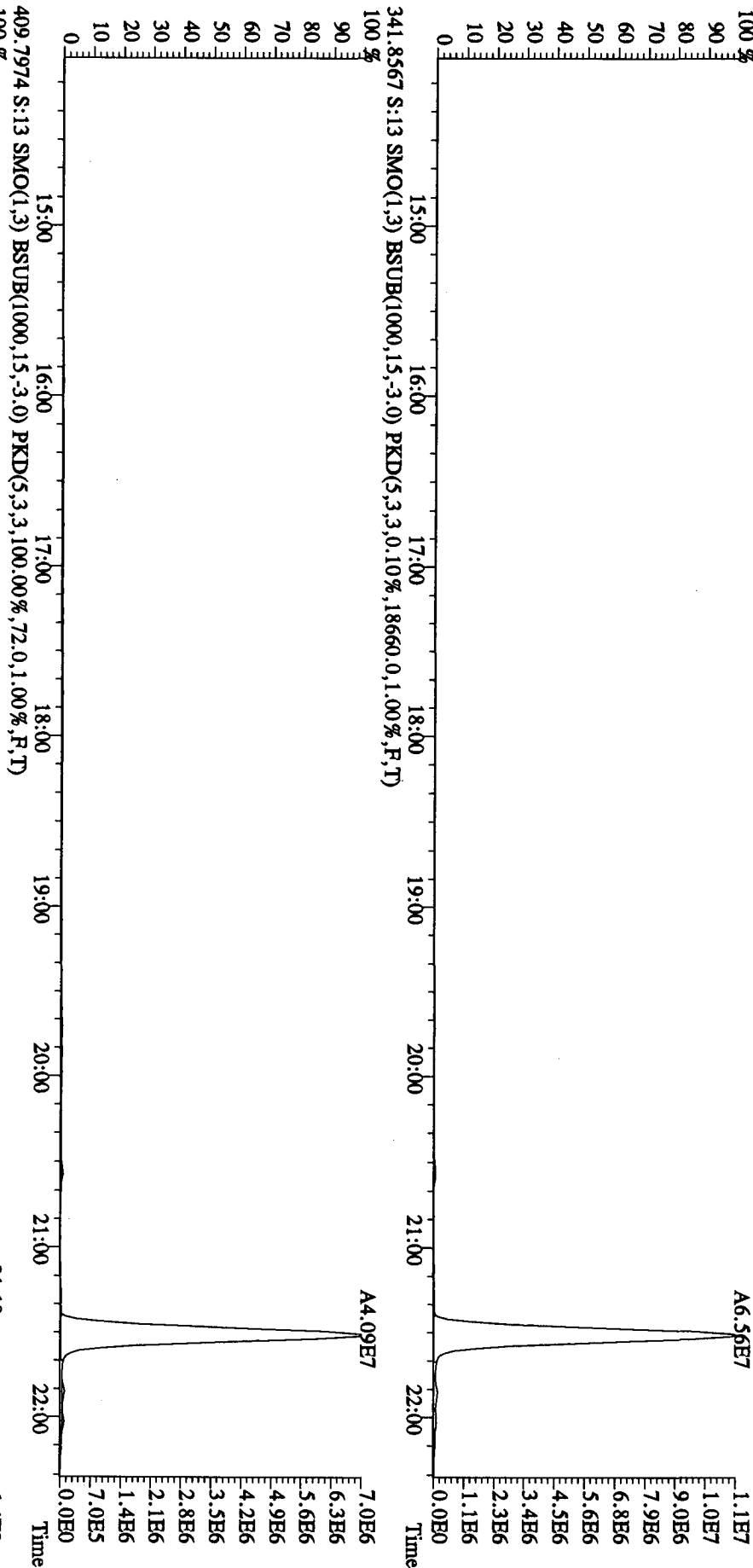
Sample#13 Text:LO2LA-2-AC :G9L120491-5RX Exp:DIOXIN



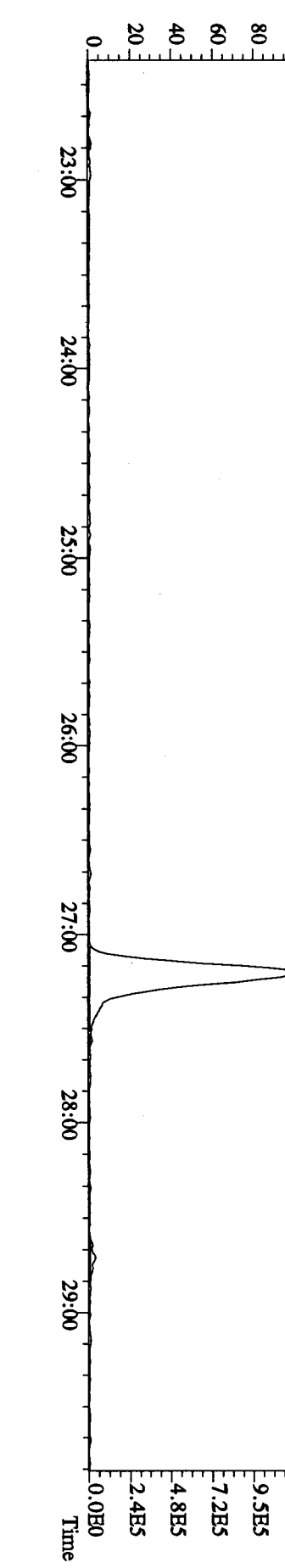
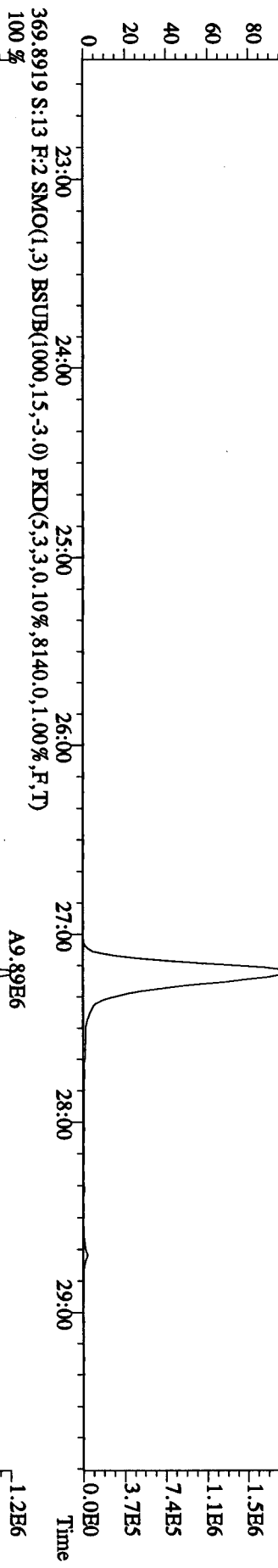
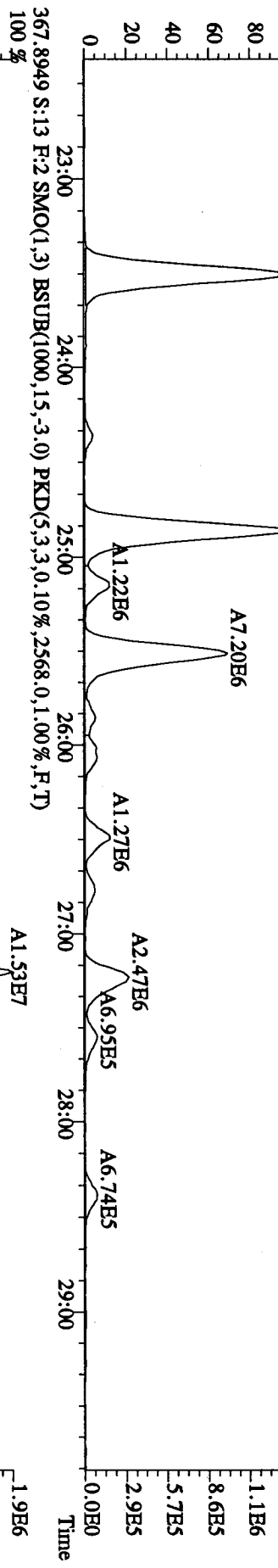
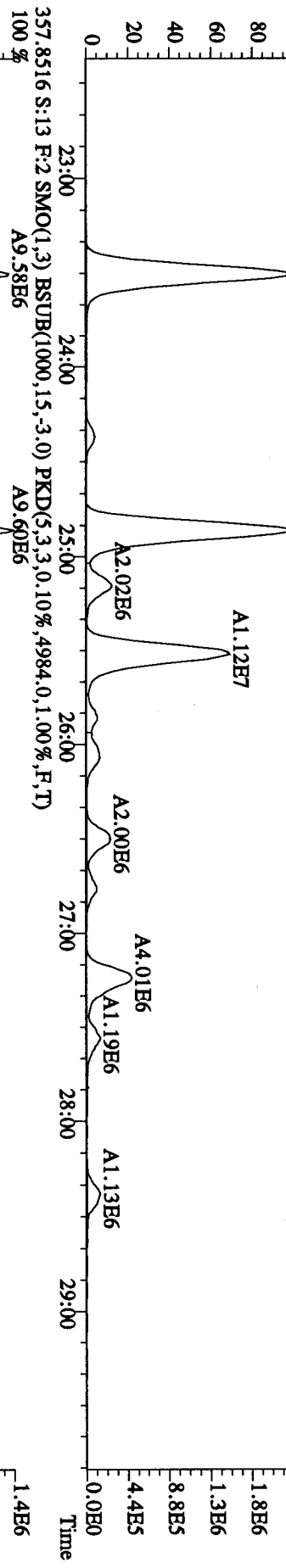
File:22DB09A4D5 #1-596 Acq:23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#13 Text:LQ2LA-2-AC :G9L120491-5RX Exp:DIOXIN
 339,8597 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,147840,0.1,0.00%,F,T)
 100 % A2.62E8



File: 22DB09A4D5 #1-578 Acq: 23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#13 Text: LQ2LA-2-AC : G9L120491-5RX Exp: DIOXIN
 339.8597 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2696.0,1.00%,F,T)



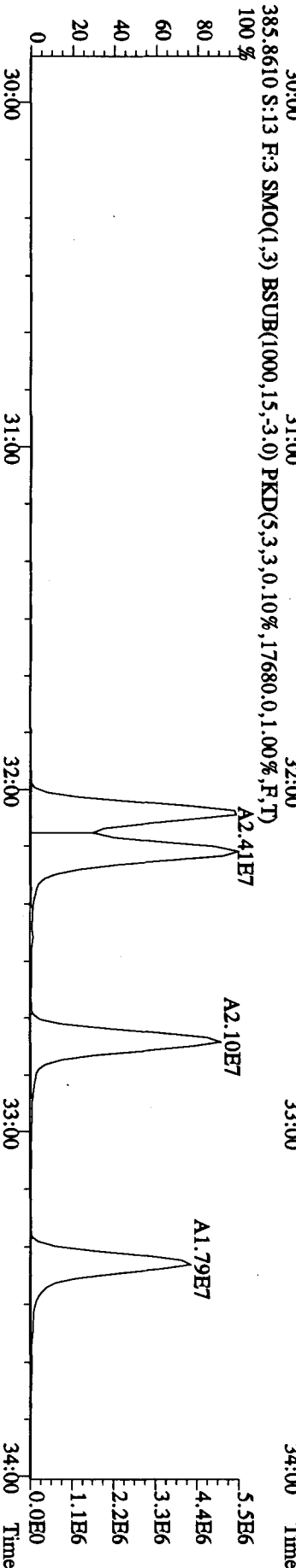
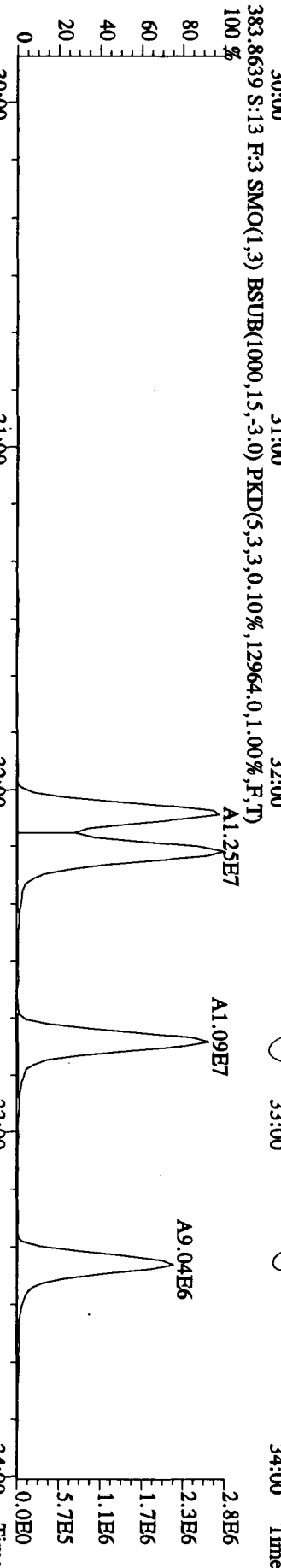
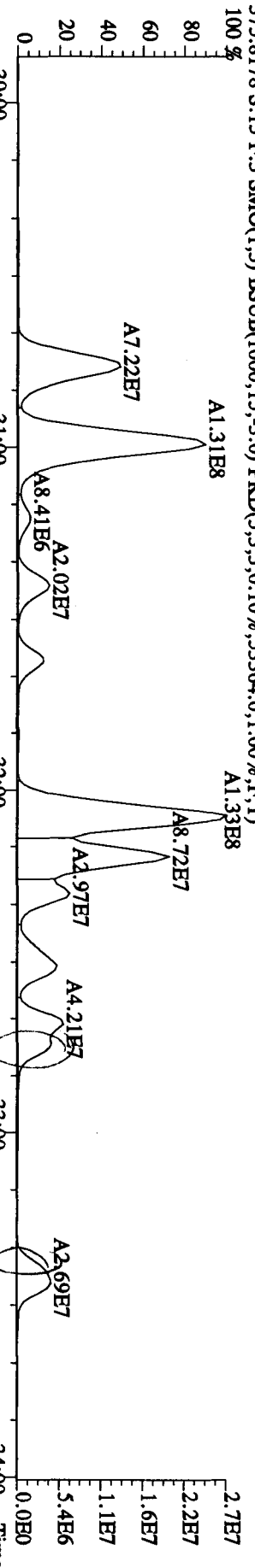
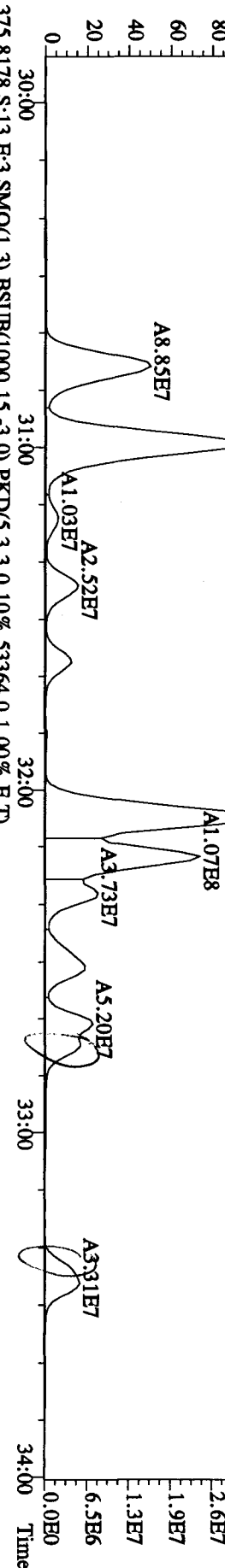
File:22DE09A4D5 #1-596 Acq:23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#13 Text:LO2LA-2-AC :G9L120491-5RX Exp.:DIOXIN
 355.8546 S:13 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3180,0,1,00%,F,T)
 100%



File: 22DE09A4D5 #1-314 Acq: 23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-Ultimate

Sample#13 Text: LQ2LA-2-AC : G9L120491-5RX Exp: DIOXIN

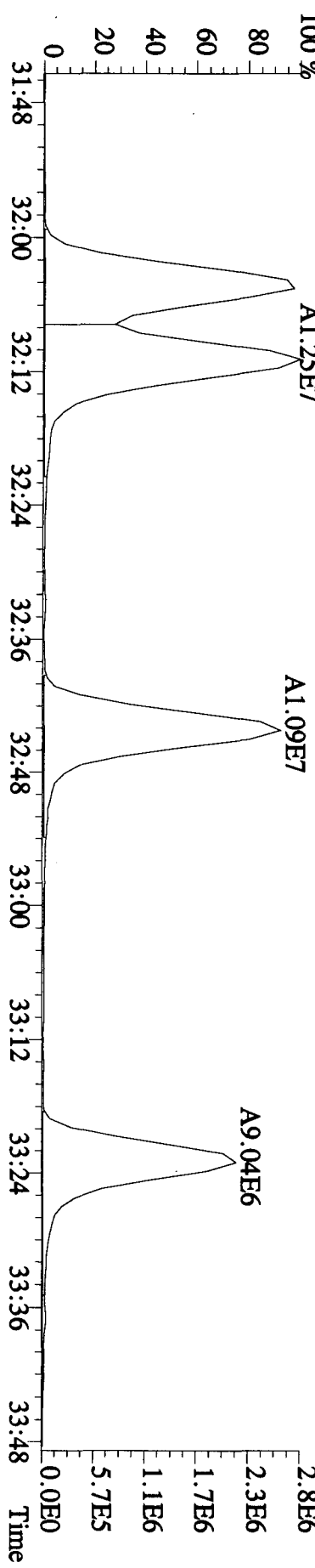
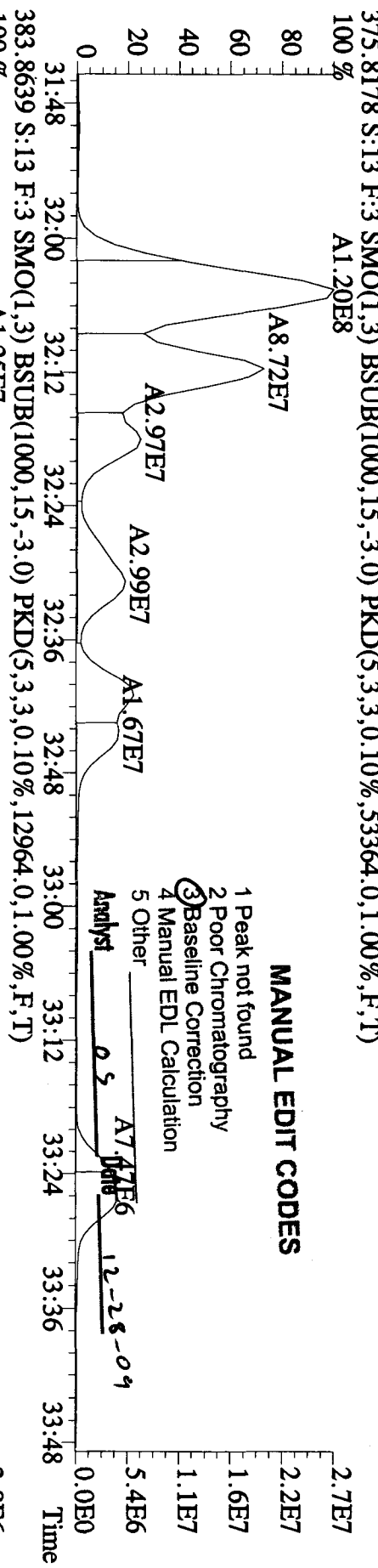
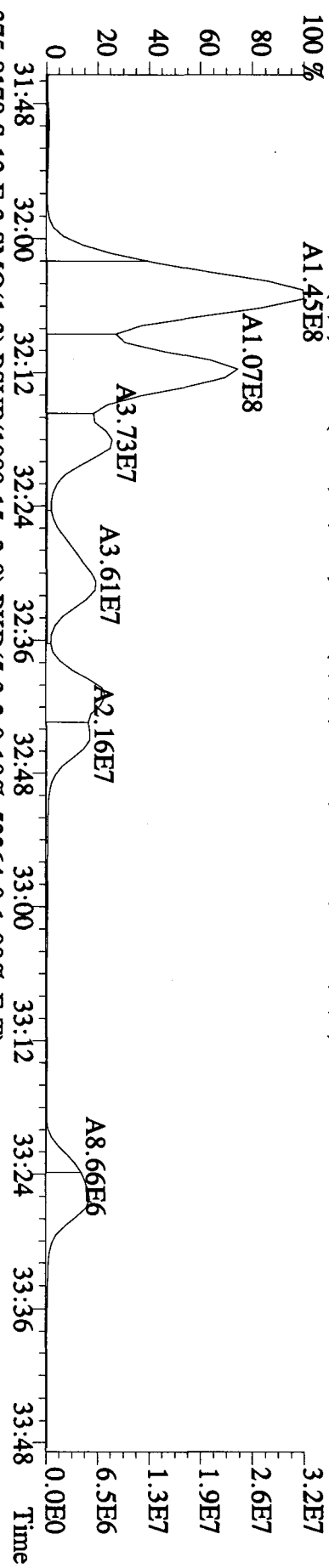
373.8208 S:13 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,60876,0,1,00%,F,T)



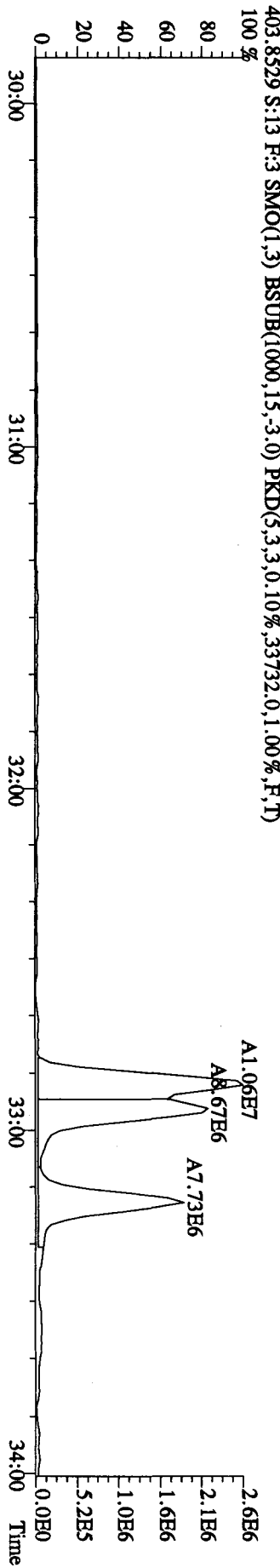
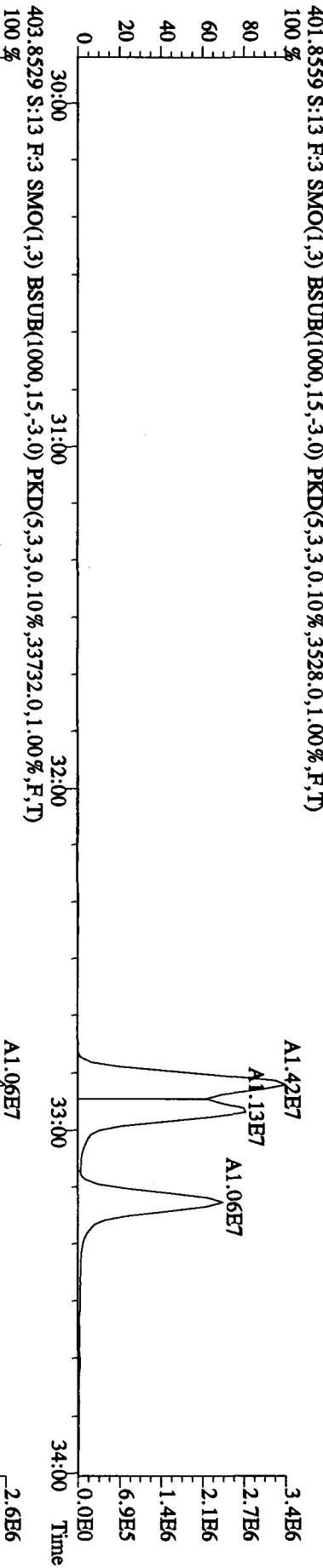
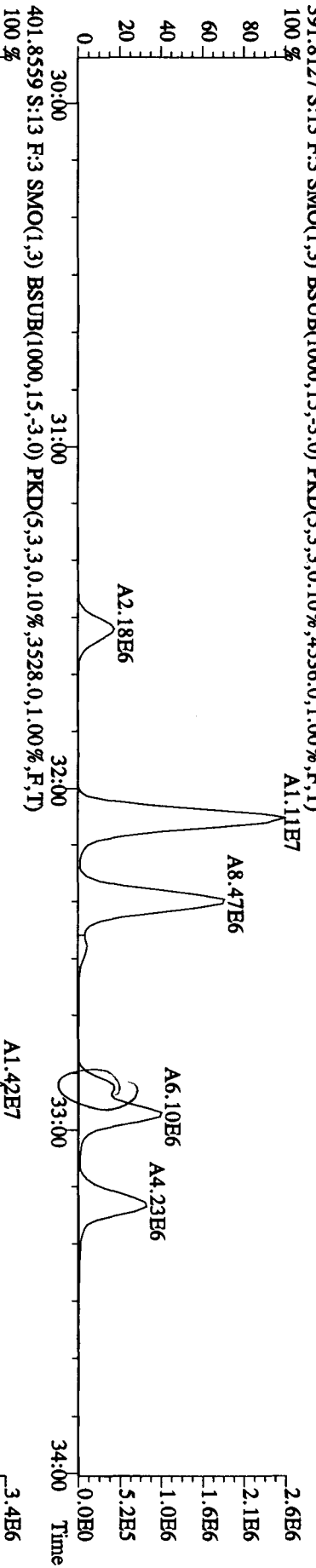
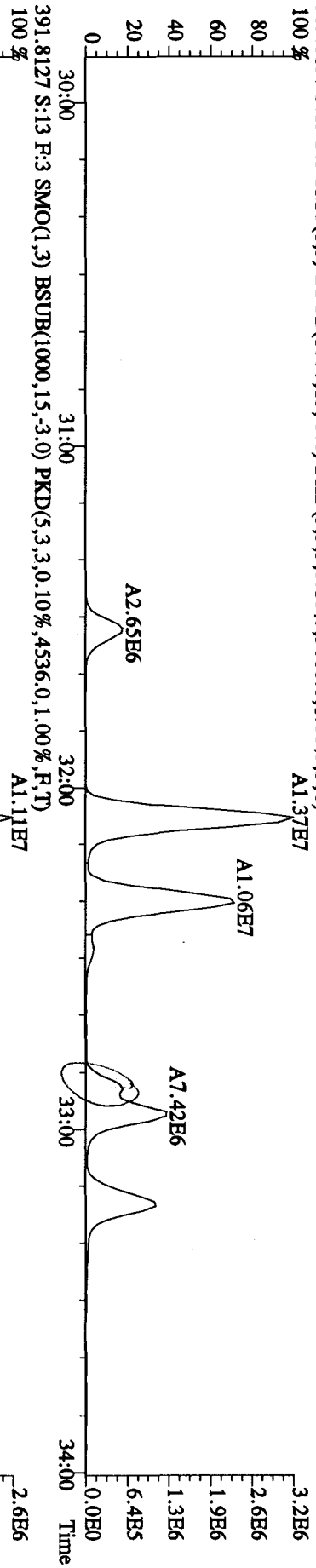
Sample#13 Text:LQ2LA-2-AC :G9L120491-5R Exp:DIOXIN

373.8208 S:13 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60876.0,1.00%,F,T)

100% A1.45E8



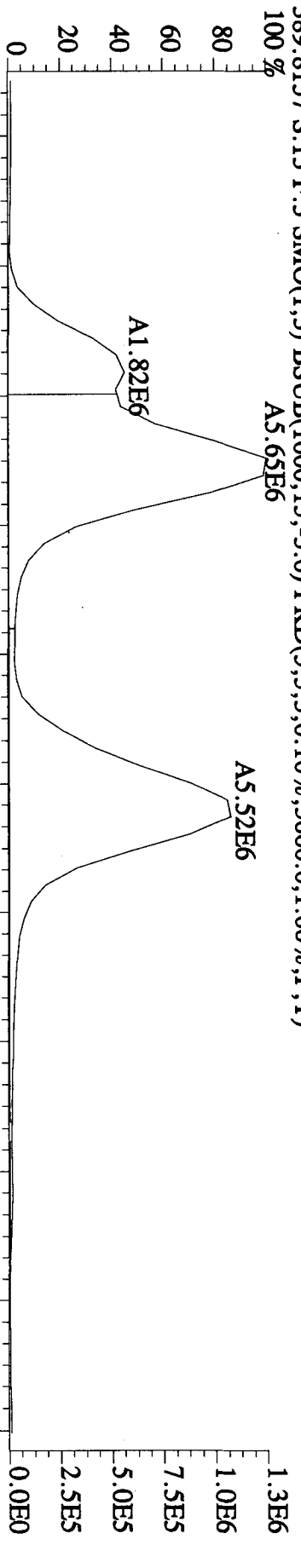
File: 22DE09A4D5 #1-314 Acq: 23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#13 Text: LQ2LA-2-AC :G9L120491-5RX Exp: DIOXIN
 389.8157 S:13 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3660,0,1.00%,F,T)
 100 %



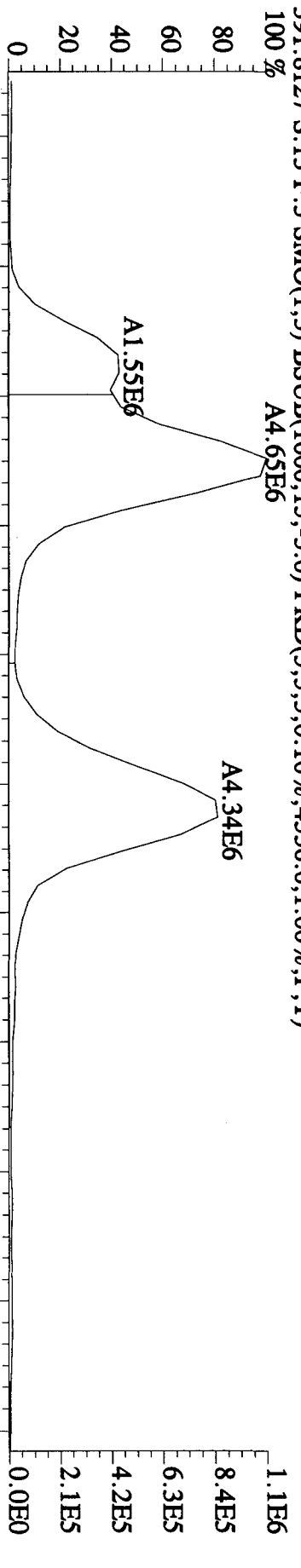
File: 22DE09A4D5 #1-314 Acq: 23-DEC-2009 06:14:34 GC EI + Voltage SIR Autospec-Ultimate

Sample #13 Text: LQ2LA-2-AC : G9L120491-5R Exp: DIOXIN

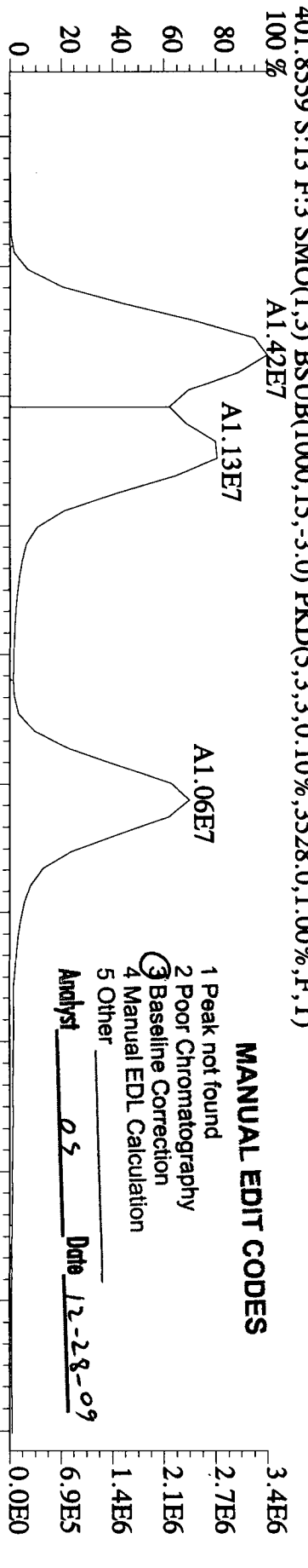
389.8157 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3660.0,1.00%,F,T)



391.8127 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4536.0,1.00%,F,T)



401.8559 S:13 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3528.0,1.00%,F,T)



MANUAL EDIT CODES

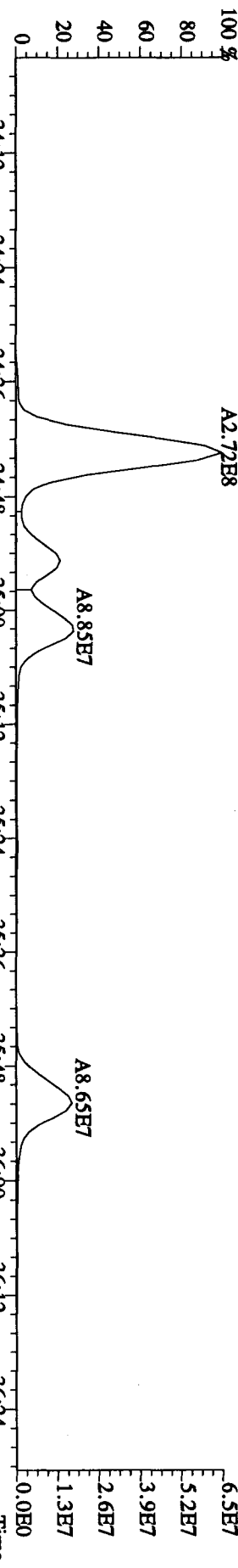
- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other

Analyst OS Date 12-28-09

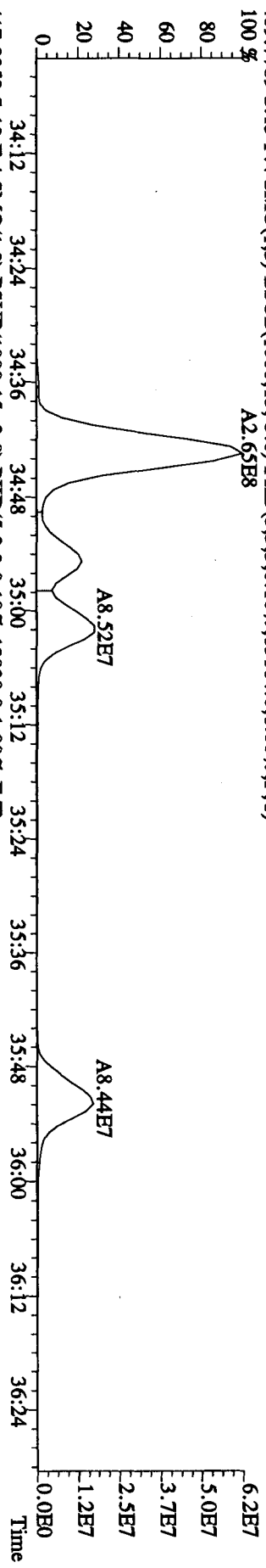
File:22DE09A4D5 #1-198 Acq:23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-UltimaB

Sample#13 Text:LQ2LA-2-AC :G9L120491-5RX Exp:DIOXIN

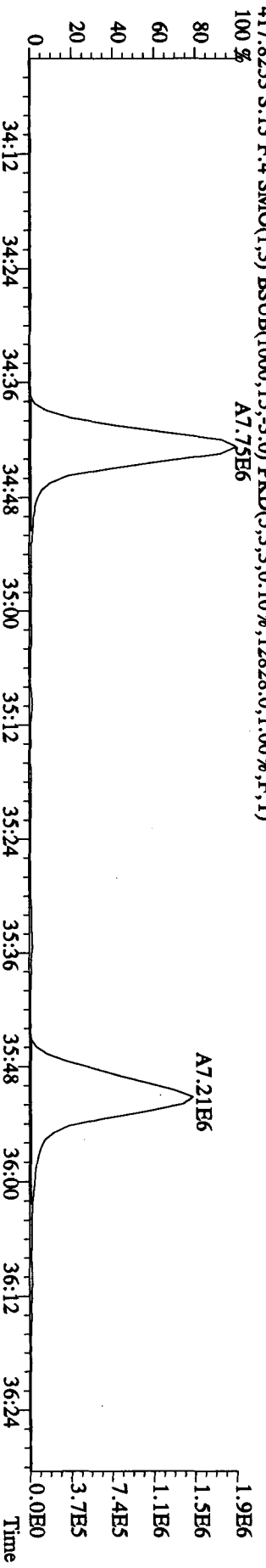
407.7818 S:13 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,52872.0,1.00%,F,T)



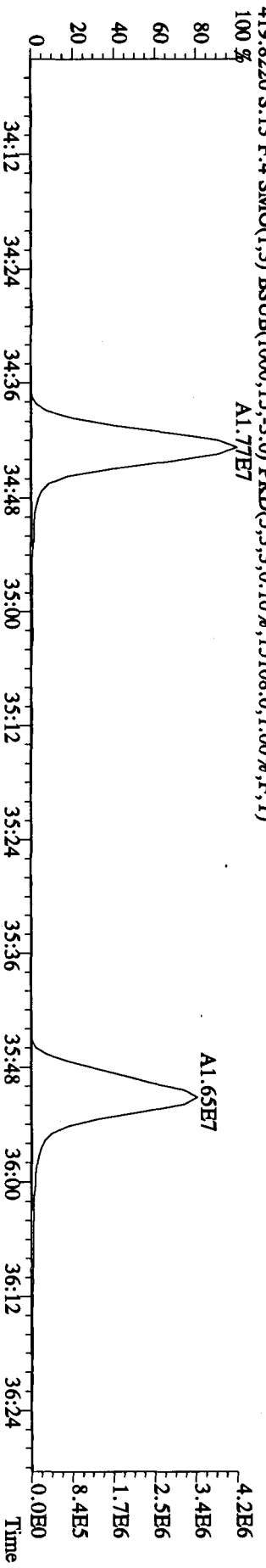
409.7789 S:13 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15164.0,1.00%,F,T)



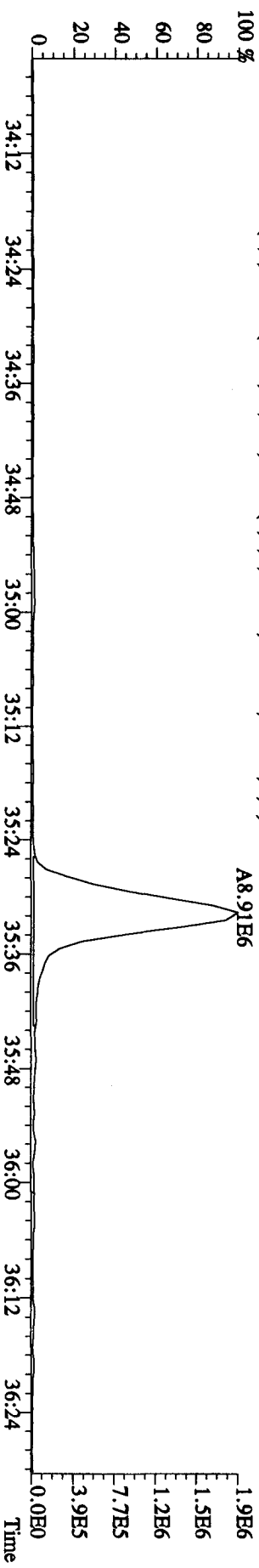
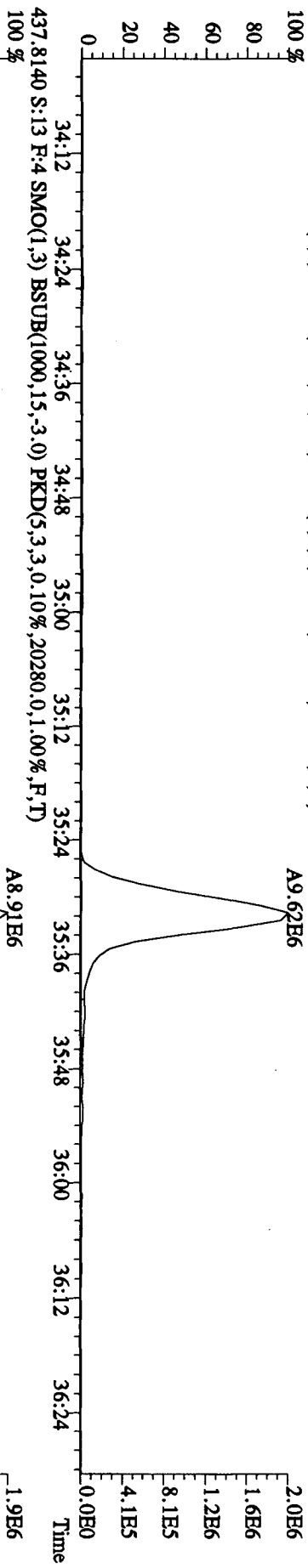
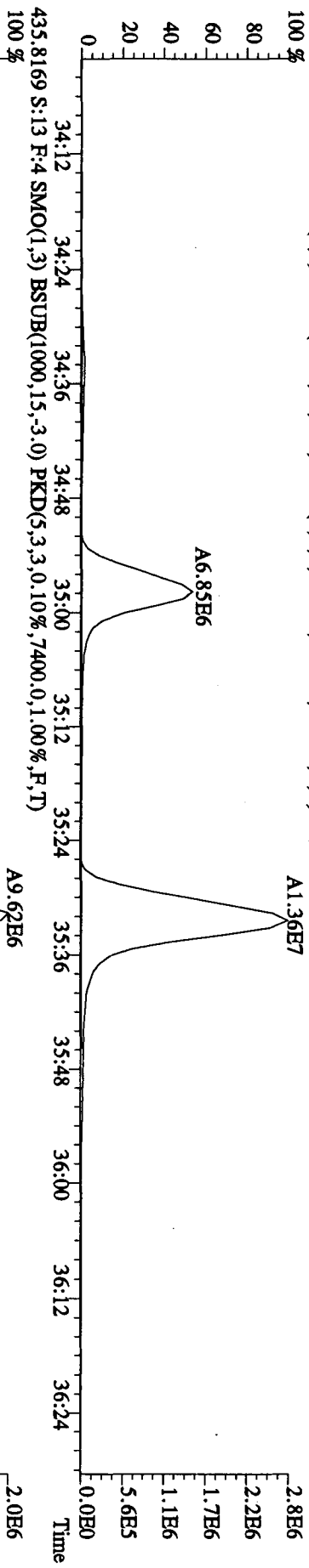
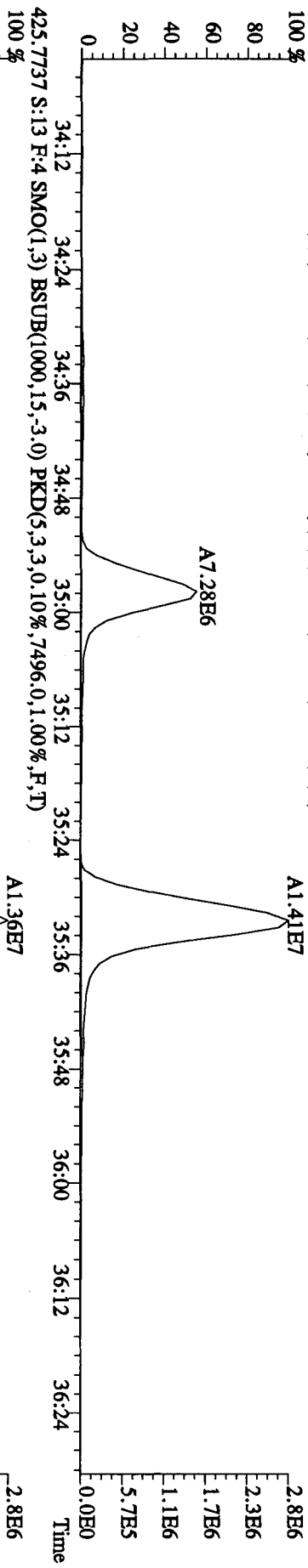
417.8253 S:13 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,12828.0,1.00%,F,T)



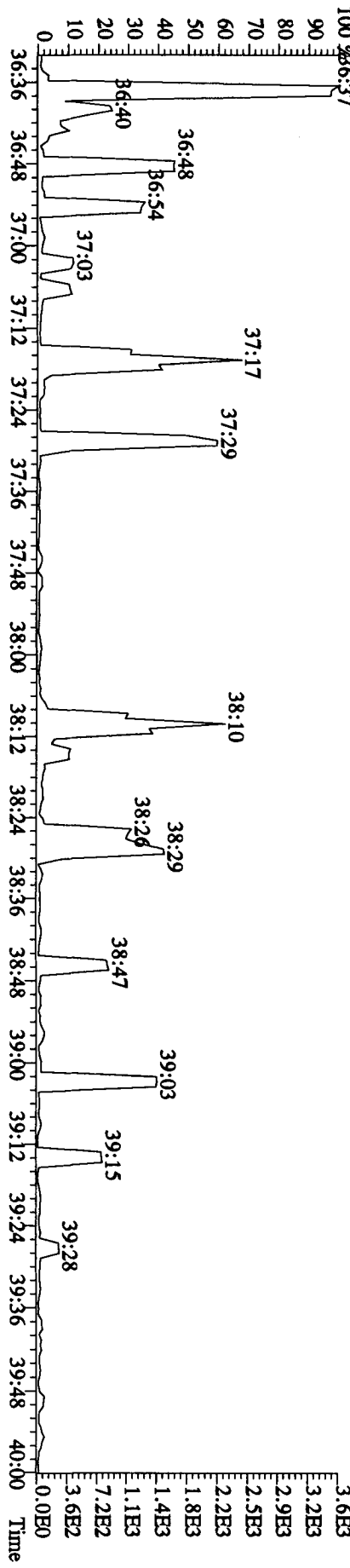
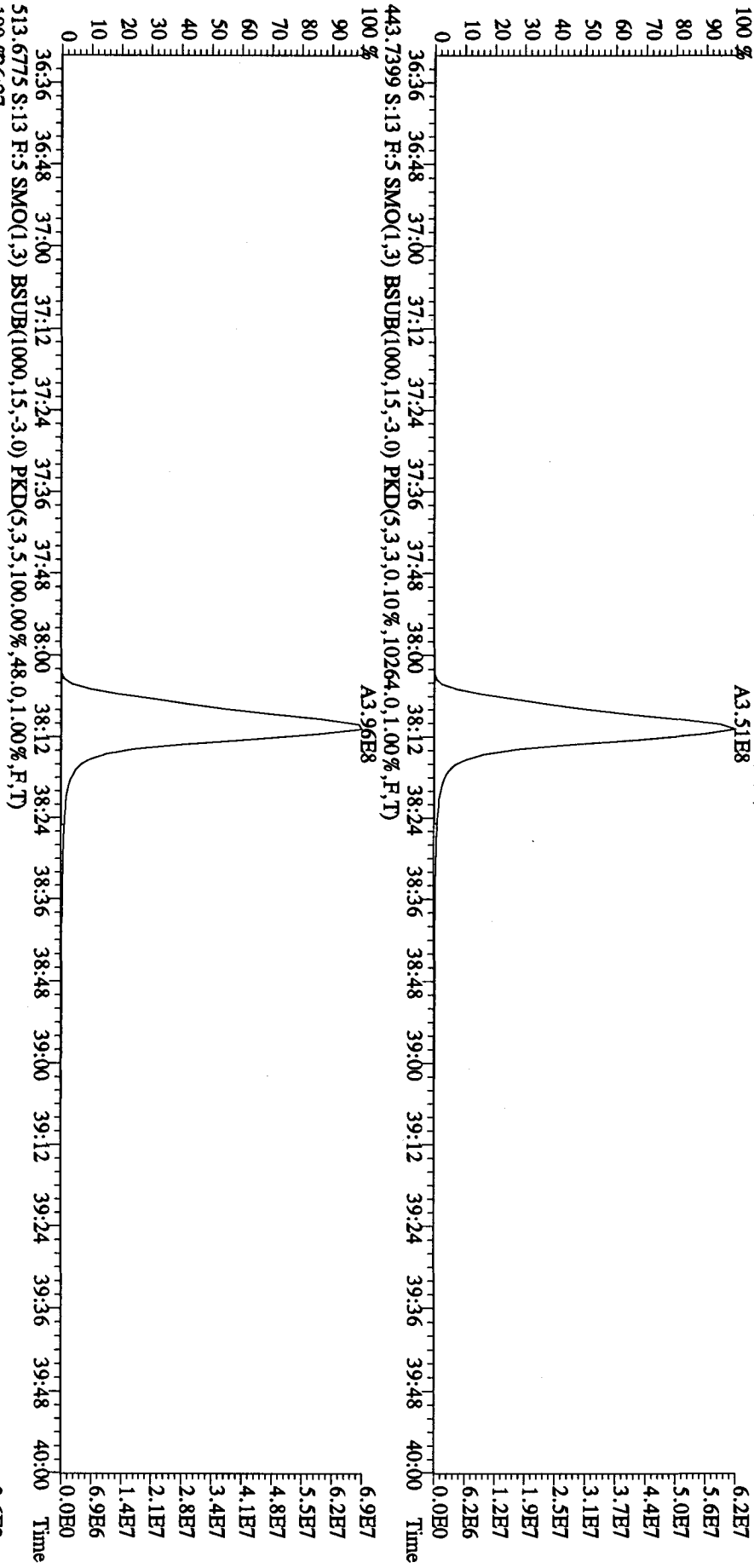
419.8220 S:13 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15108.0,1.00%,F,T)



File:22DE09A4D5 #1-198 Acq:23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#13 Text:LO2LA-2-AC :G9L120491-5RX Exp:DIOXIN
 423.7737 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7496,0.1,00%,F,T)
 100 %



File:22IDB09A4D5 #1-281 Acq:23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#13 Text:LQ2LA-2-AC :G9L120491-5RX Exp:DIOXIN
 441.7428 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9808,0.1,0.0%,F,T)
 A3.51E8



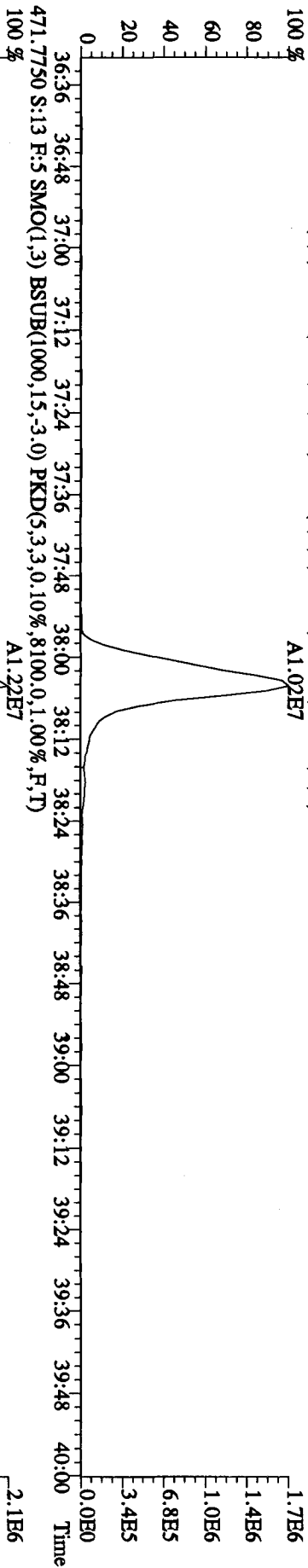
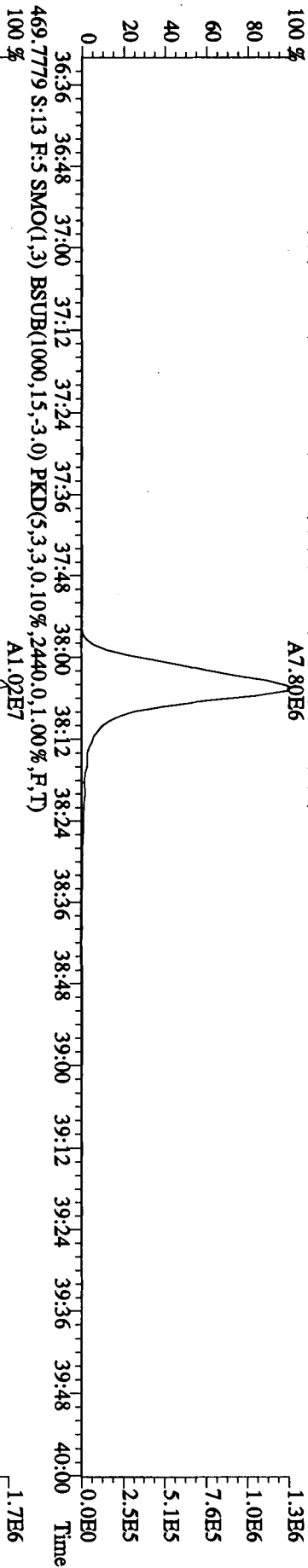
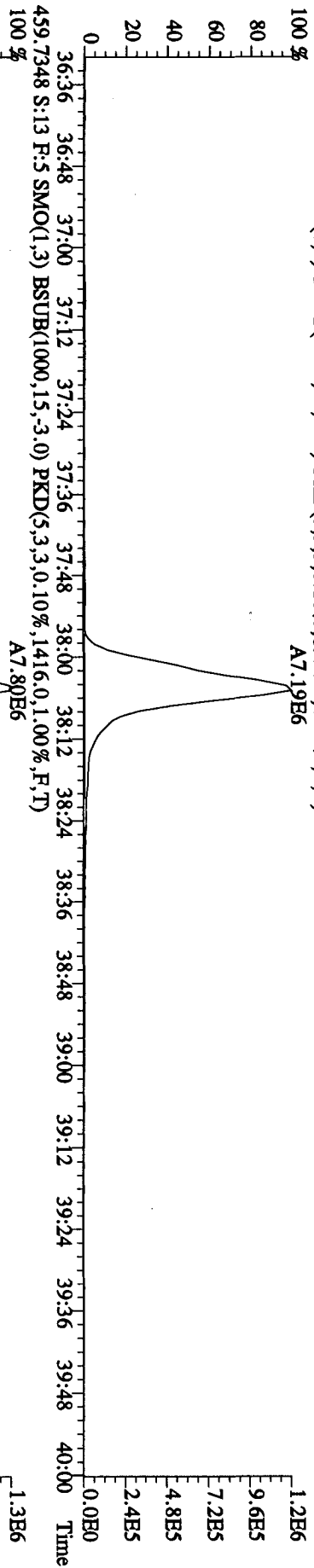
File:22DB09A4D5 #1-281 Acq:23-DEC-2009 06:14:34 GC EI + Voltage SIR Autospec-UltimaB

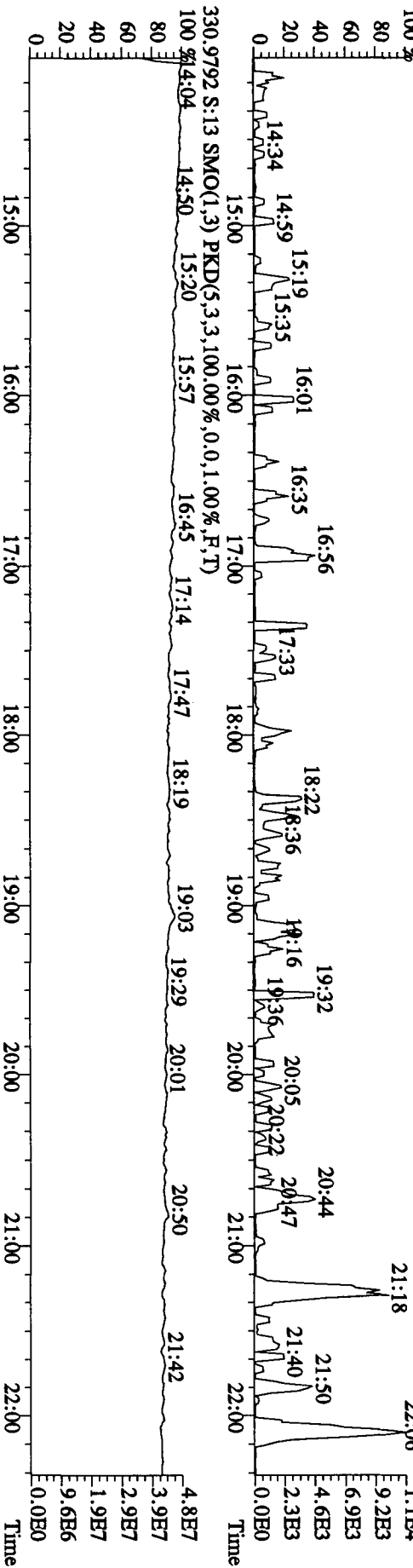
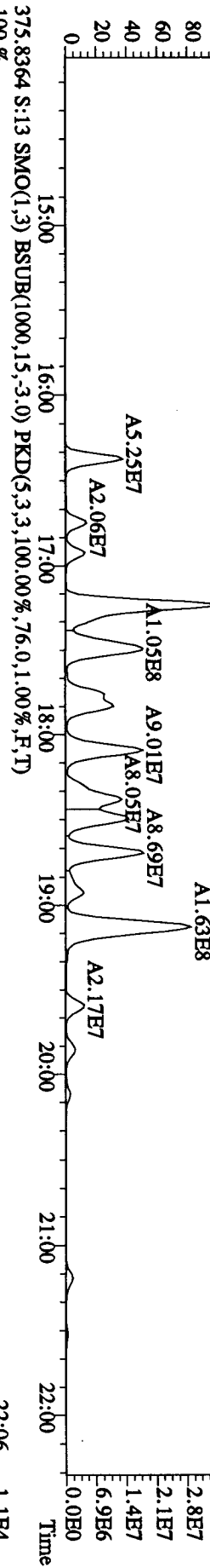
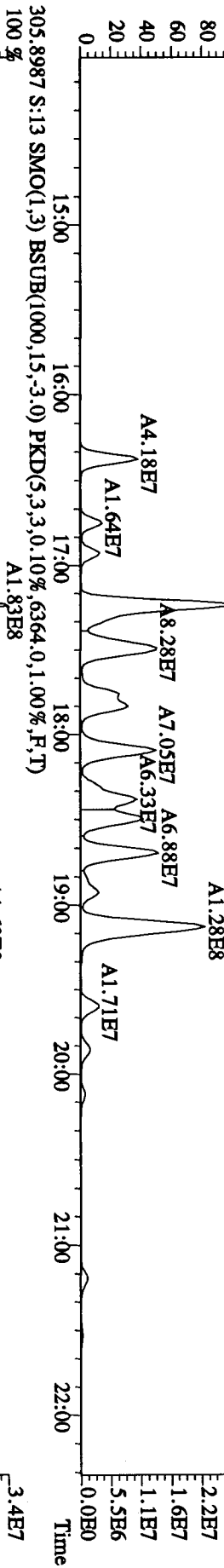
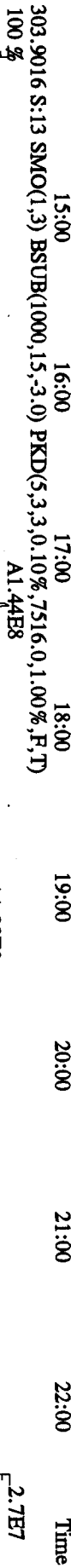
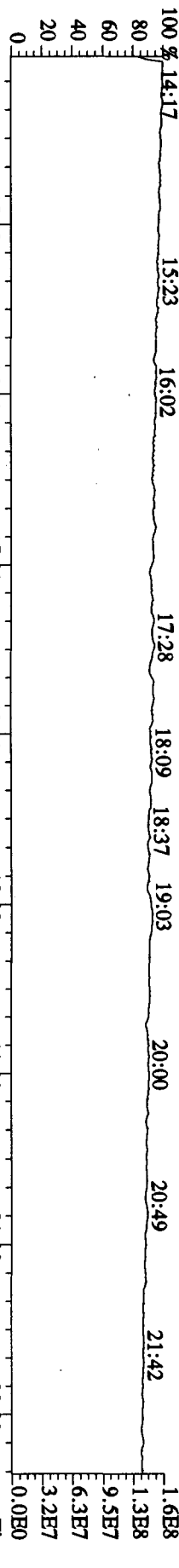
Sample#13 Text:LQ2LA-2-AC :G9L120491-5RX

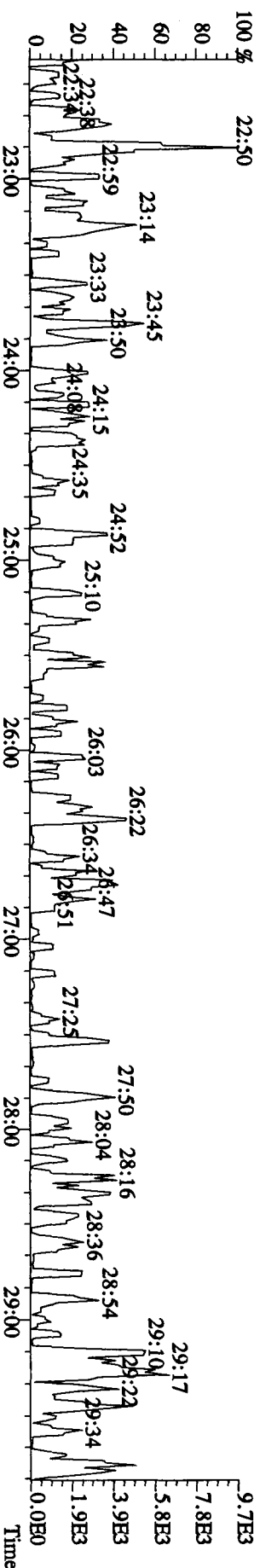
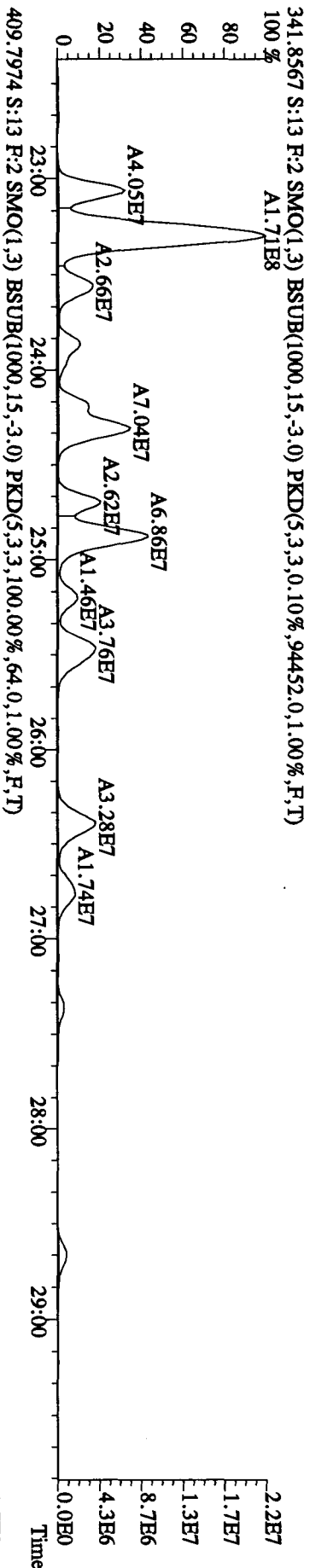
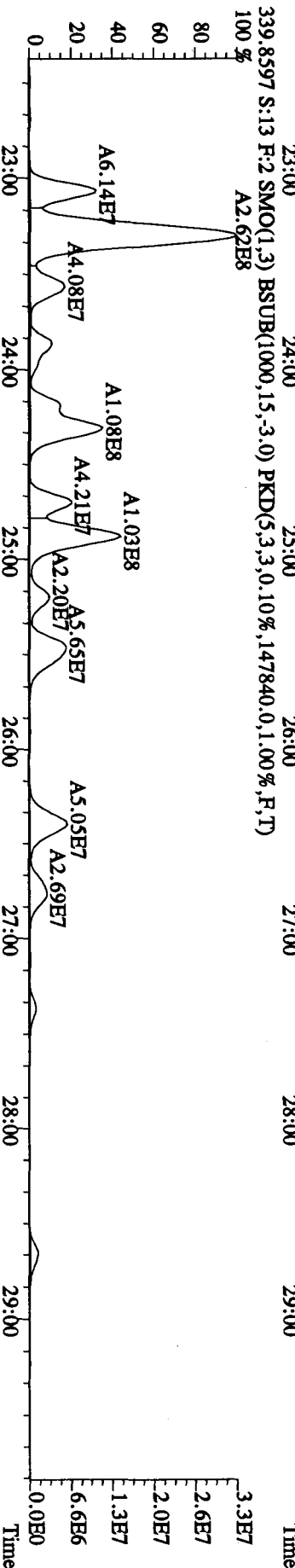
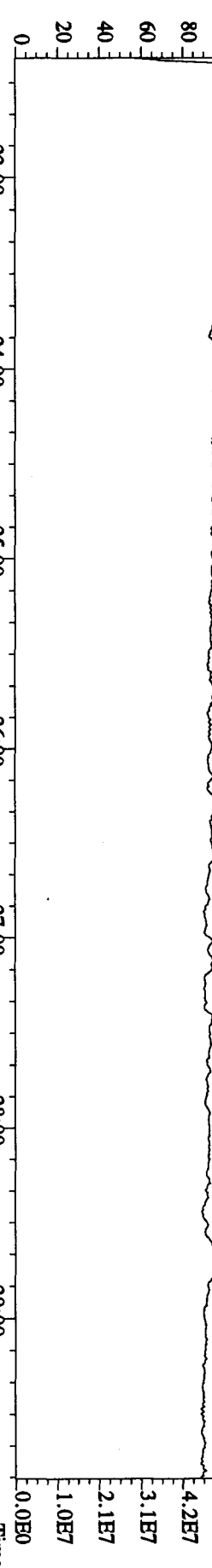
Exp:DIOXIN

457.7377 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1992.0,1.00%,F,T)

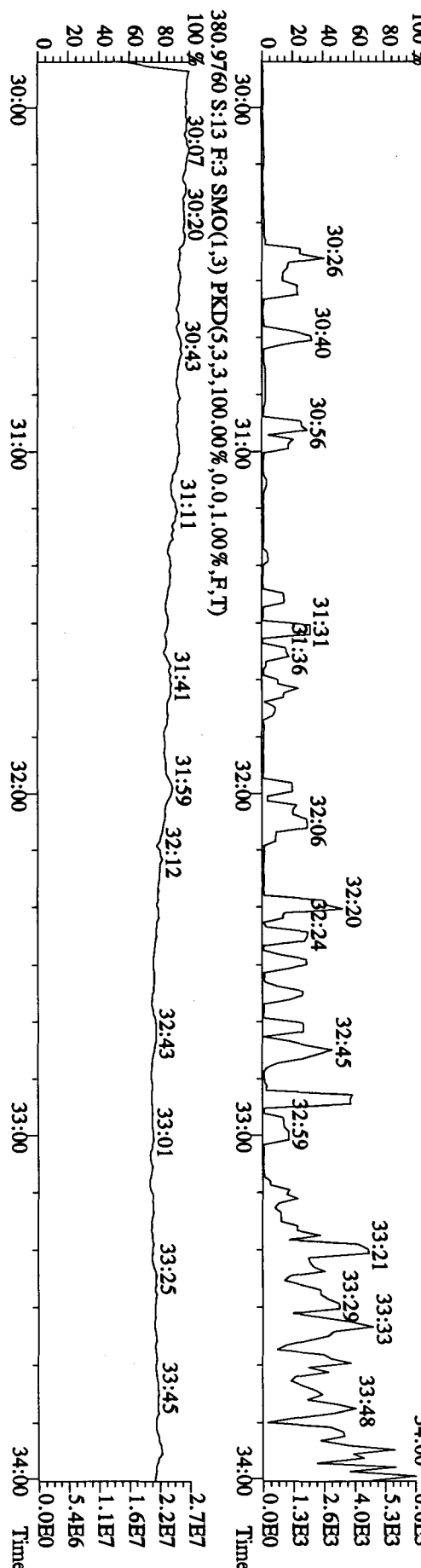
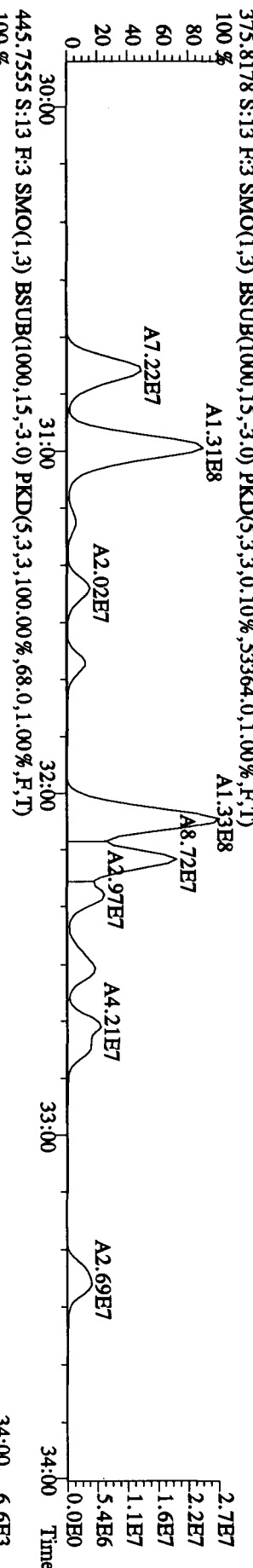
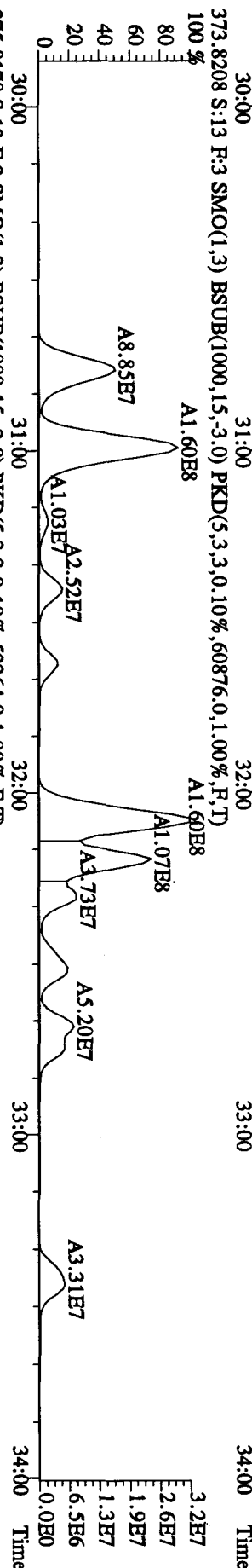
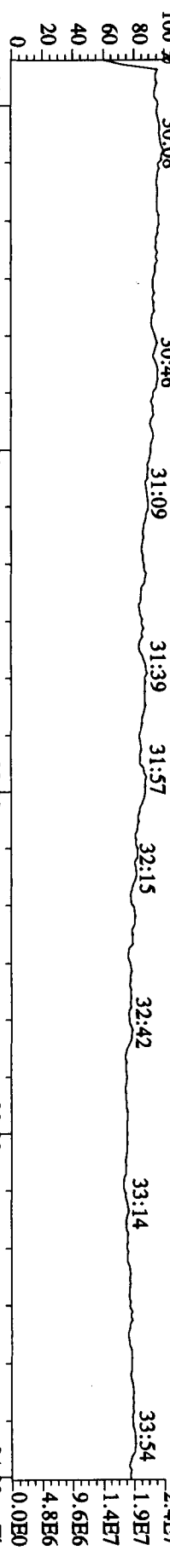
A7.19E6







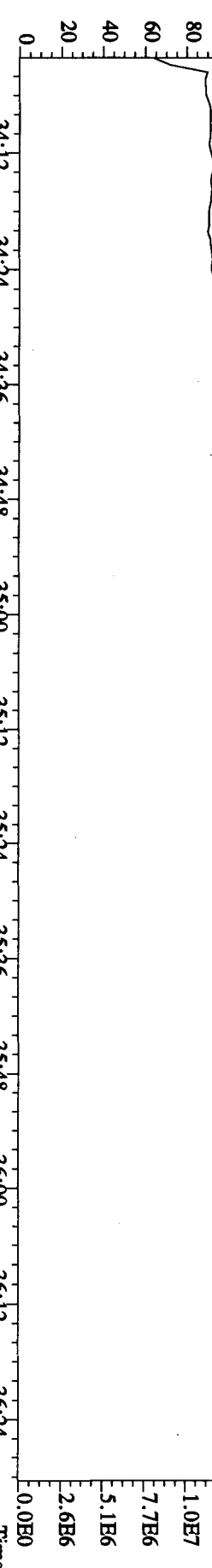
File: 22DB09A4D5 #1-314 Acq: 23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#13 Text: LQ2LA-2-AC :G9L120491-5RX Exp: DIOXIN
 392.9760 S:13 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 380.9760 S:13 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



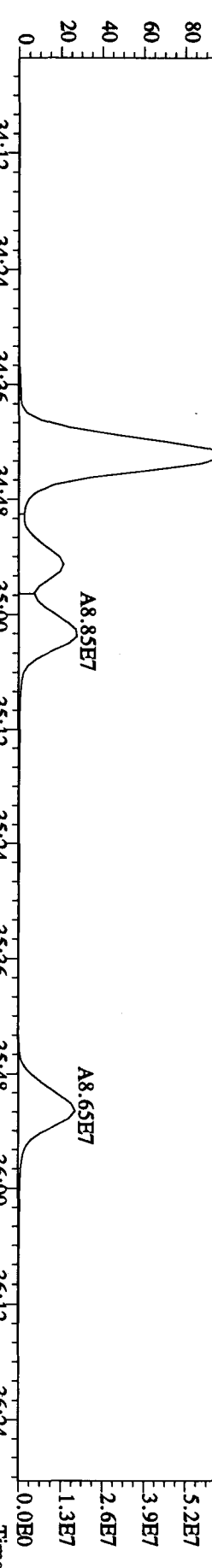
File:22DB09A4D5 #1-198 Acq:23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-UltimateB

Sample#13 Text:LQ2LA-2-AC :G9L120491-5RX Exp:DIOXIN

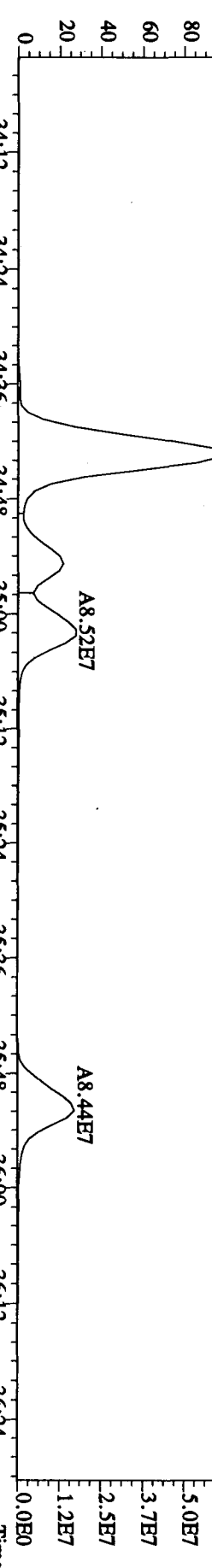
430.9728 S:13 F:4 SMO(1,3) PKD(5,3,3,100,00%,0.0,1.00%,F,T)



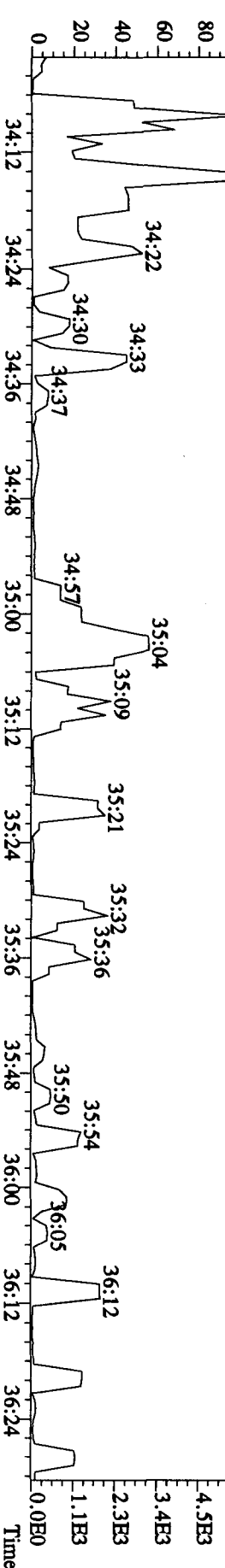
407.7818 S:13 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,52872,0,1.00%,F,T)
A2.72E8



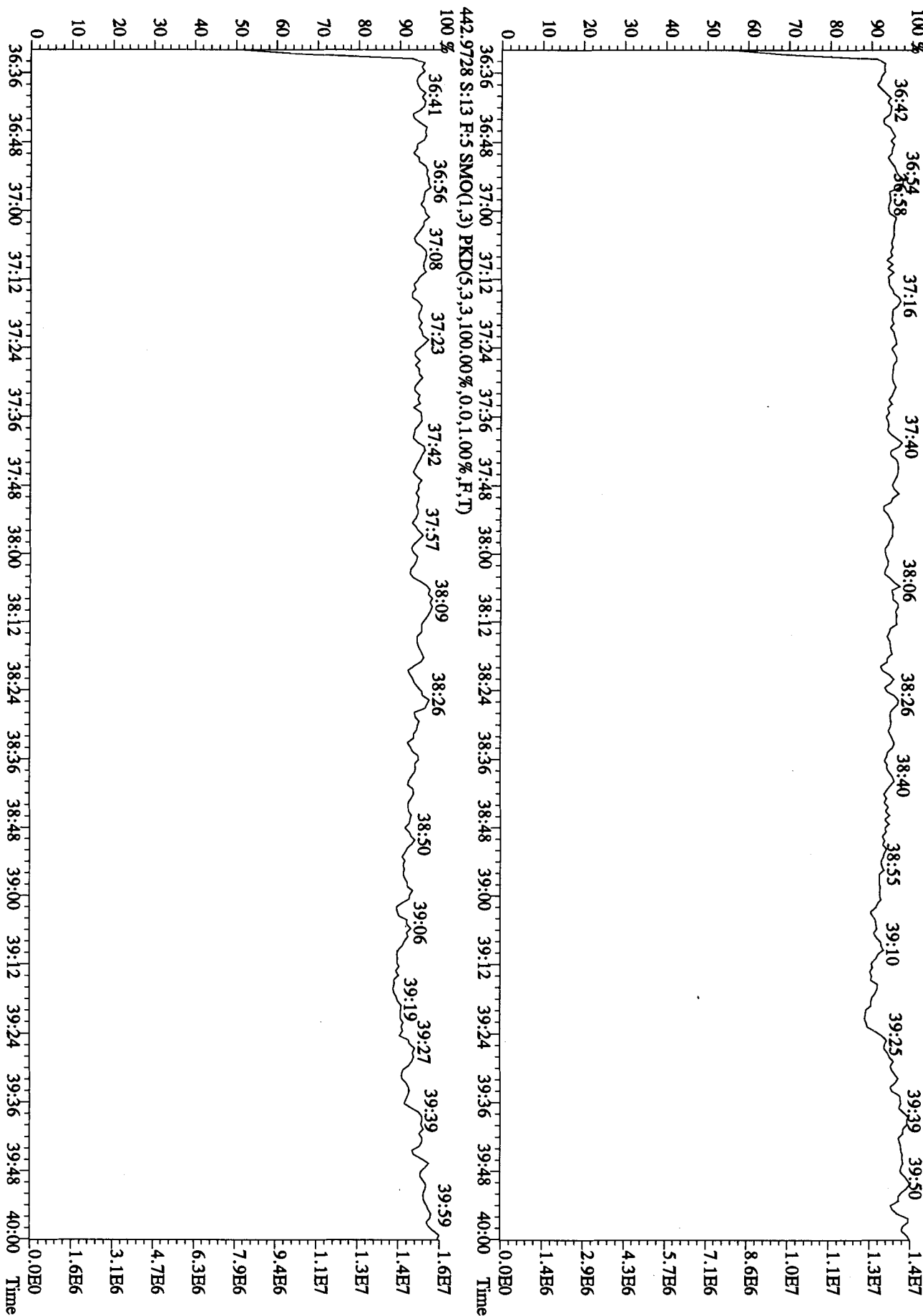
409.7789 S:13 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15164,0,1.00%,F,T)
A2.65E8



479.7165 S:13 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,64,0,1.00%,F,T)



File: 22DE09A4D5 #1-281 Acq: 23-DEC-2009 06:14:34 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#13 Text: LQ2LA-2-AC :G9L120491-SRX Exp: DIOXIN
 454.9728 S:13 F:5 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LQ2LA-2-AC Sample text: LQ2LA-2-AC :G9L120491-5RX
 Run #14 Filename: 23DE095D2 S: 10 I: 1 Results: 23DE095D2DB225
 Acquired: 23-DEC-09 14:26:52 Processed: 23-DEC-09 16:00:48
 Run: 23DE095D2 Analyte: DB225HRS Cal: DB2251021095D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.1900g

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	51930006	0.76 y	14:23	-	3.35	-	-	n
13C-2,3,7,8-TCDF	139551540	0.79 y	15:30	1.98	133.50	1.31	68.0	n
2,3,7,8-TCDF	224280920	0.83 y	15:31	1.18	267.36 <i>E</i>	0.51 <i>G</i>	-	n
13C-2,3,7,8-TCDD	66908180	0.80 y	14:09	0.97	130.23	1.95	66.4	n
2,3,7,8-TCDD	12138858	0.79 y	14:11	1.51	23.64	0.88	-	n
37Cl-2,3,7,8-TCDD	90081808	1.00 y	14:10	2.70	62.94	0.57	80.2	n

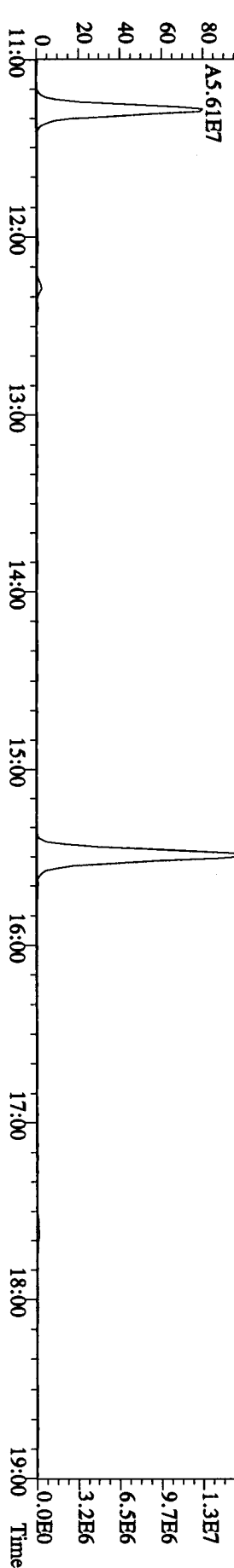
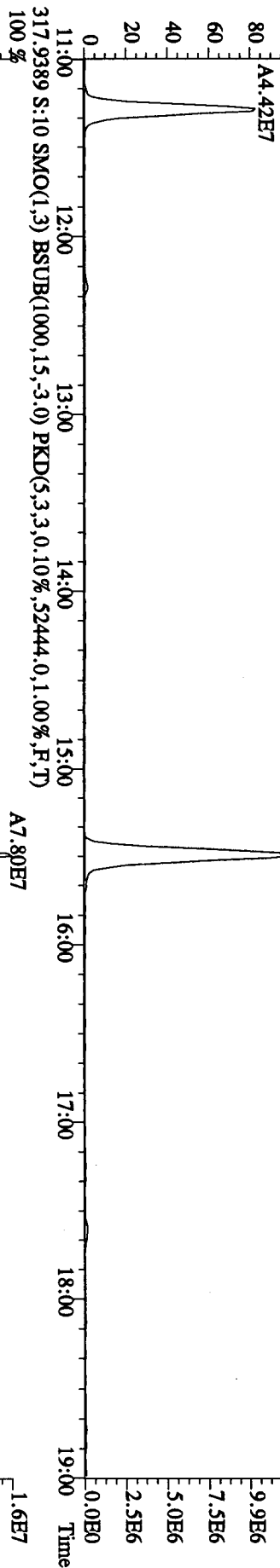
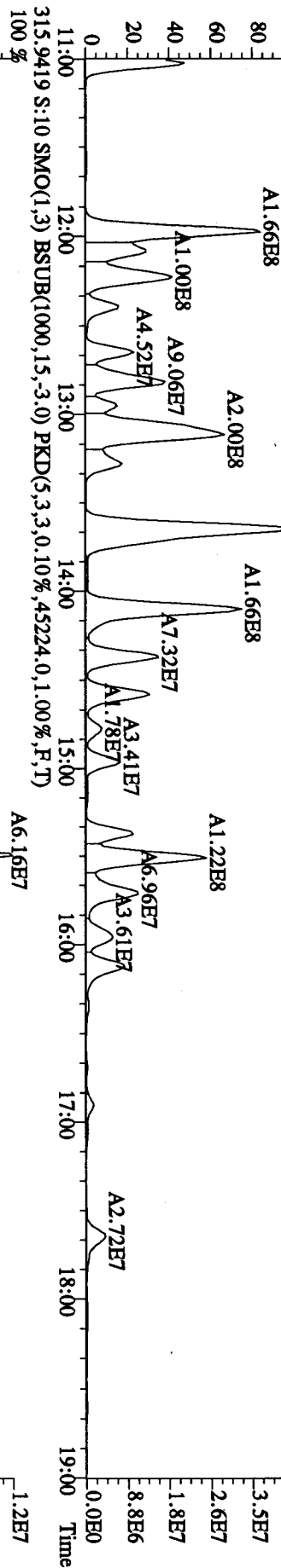
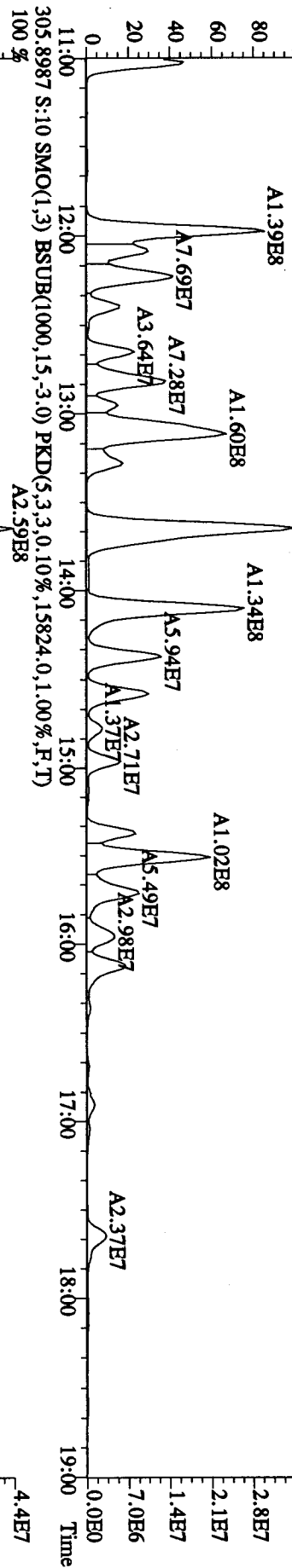
09
12-23-09

File: 23DDE095D2 #1-1242 Acq: 23-DEC-2009 14:26:52 GC EI+ Voltage SIR 70SE

Sample# 10 Text: LQ2LA-2-AC : G9L120491-5RX

Exp: DB225

303.9016 S: 10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,13316,0,1,00%,F,T) 100%

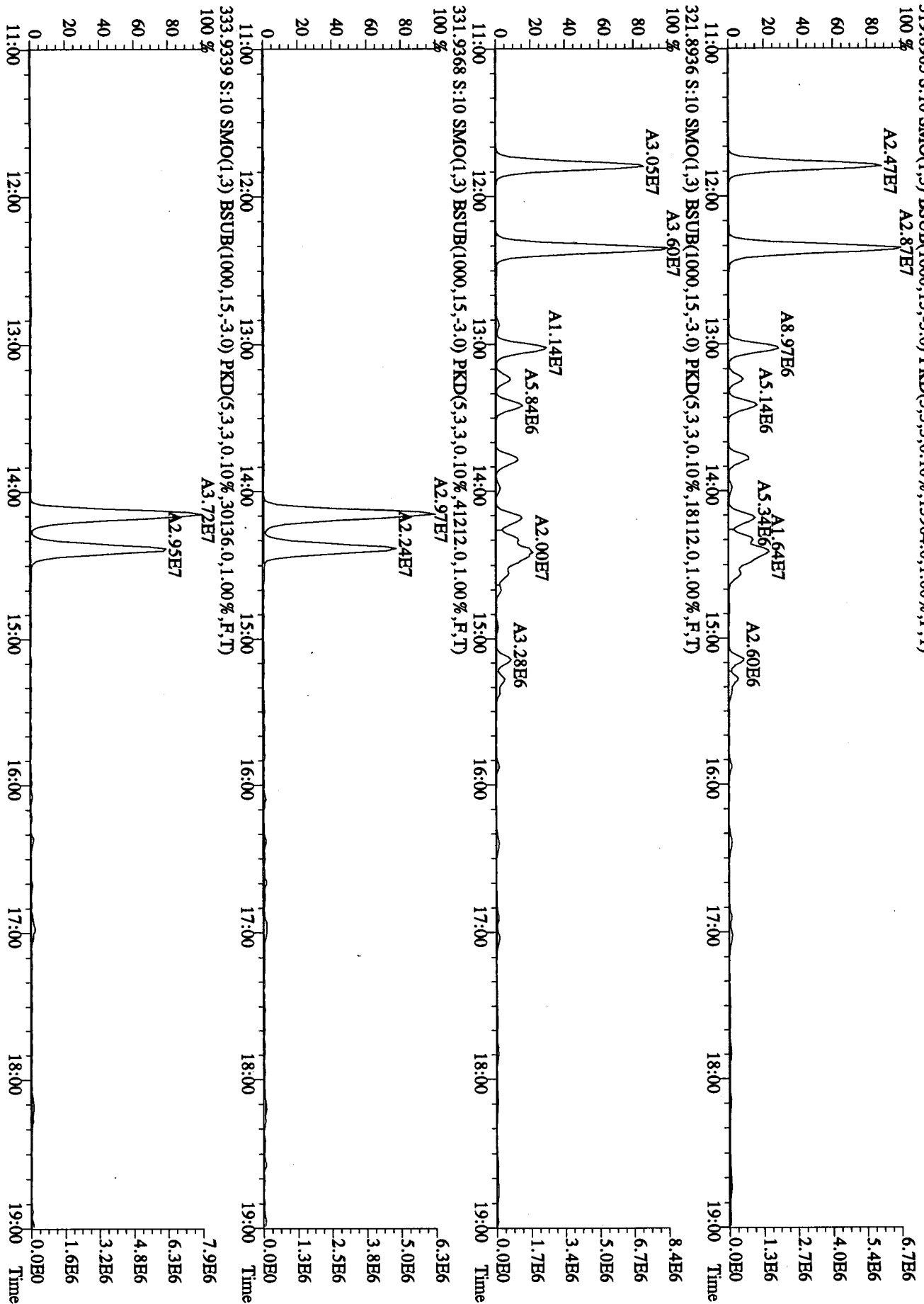


File:23DE095D2 #1-1242 Acq:23-DEC-2009 14:26:52 GC EI+ Voltage SIR 70SE

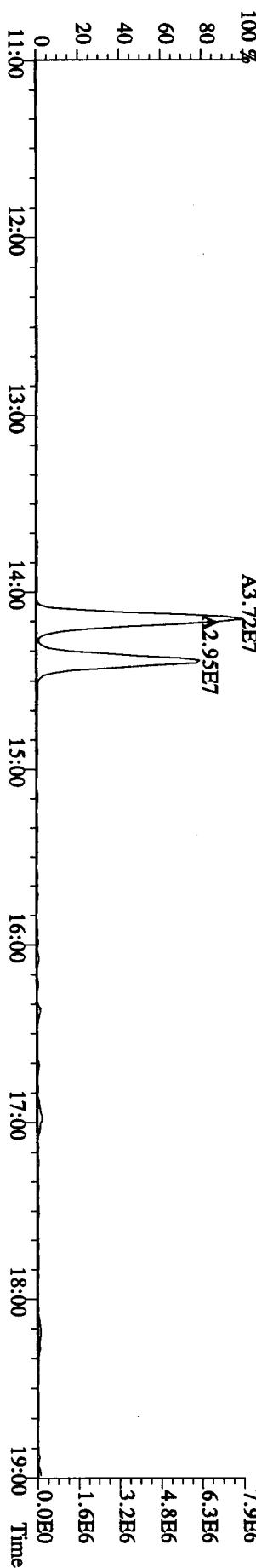
Sample#10 Text:LO2LA-2-AC :G9L120491-5RX

Exp:DB225

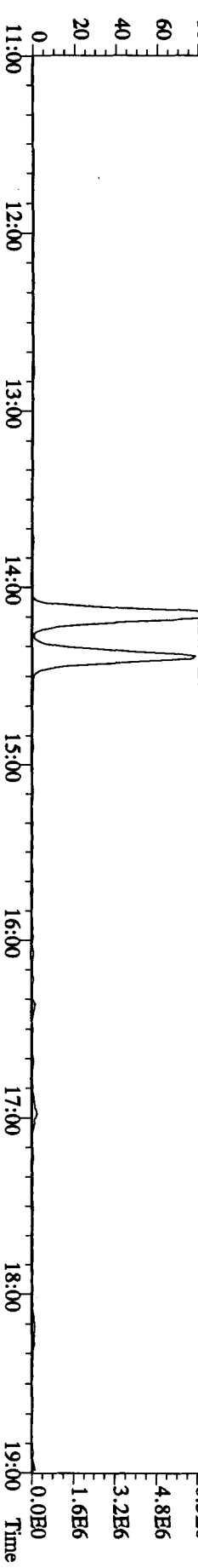
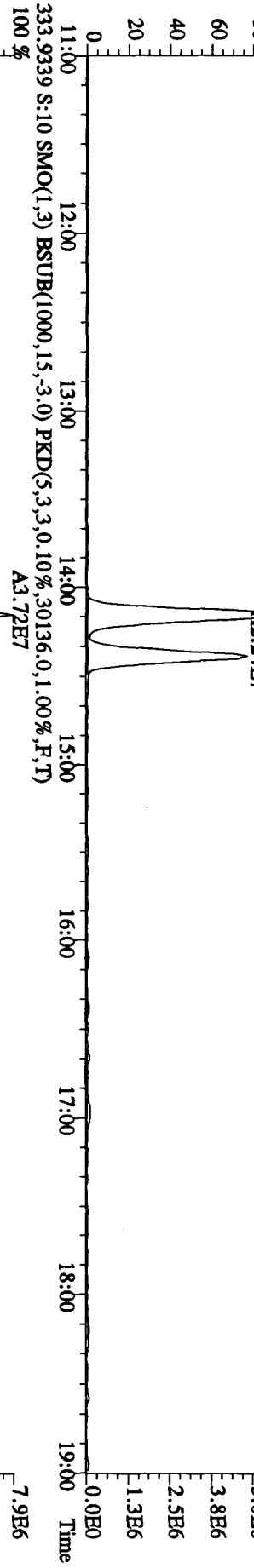
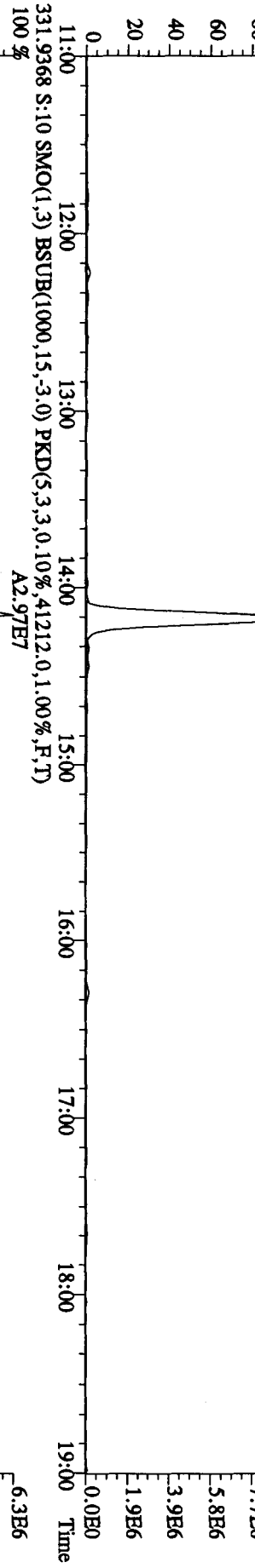
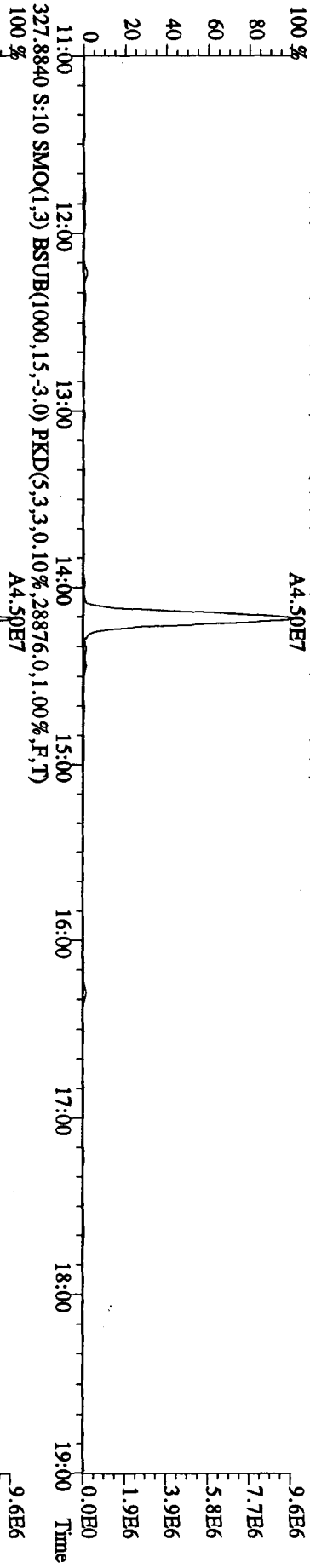
319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,13964,0,1,00%,F,T)



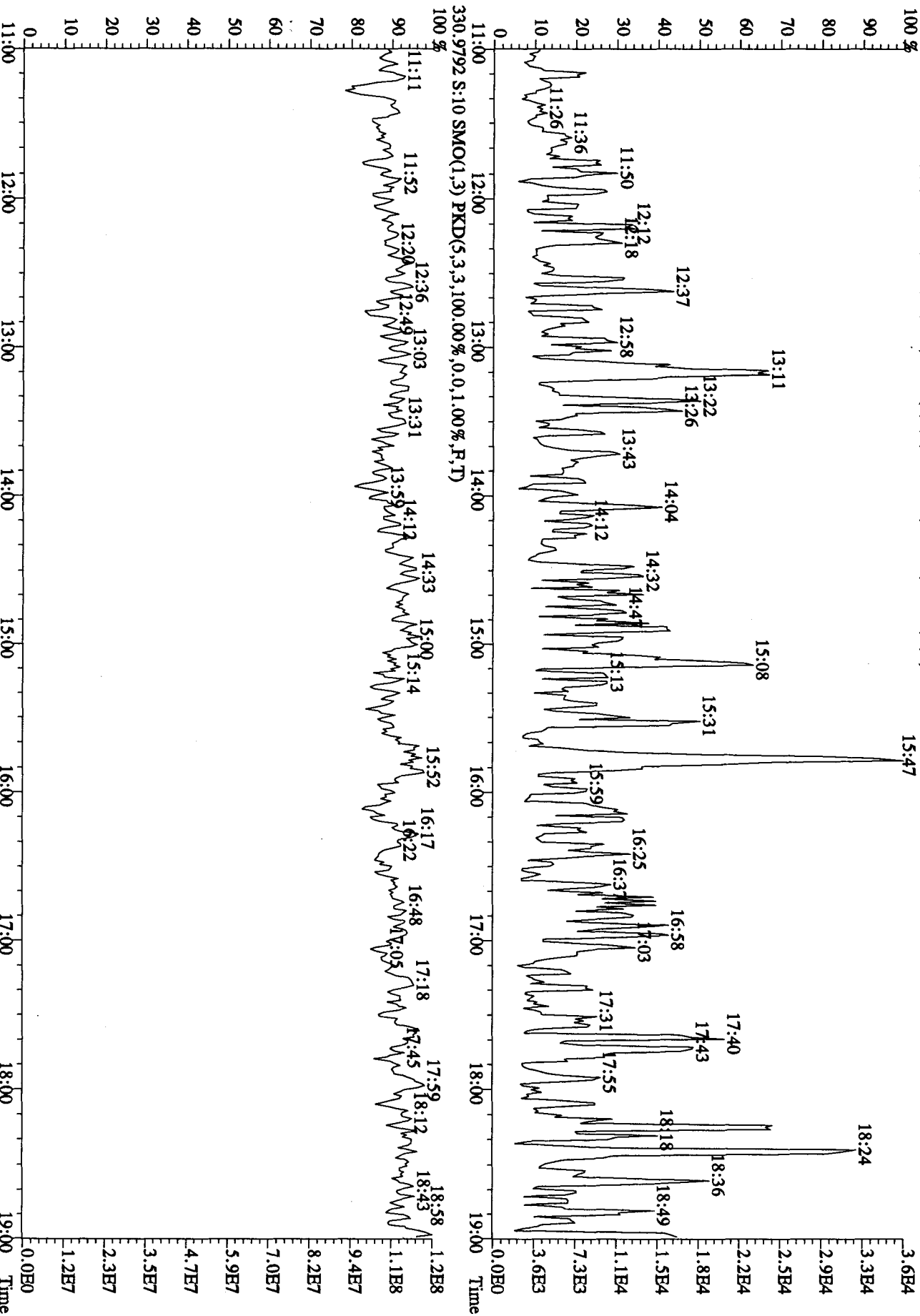
333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,30136,0,1,00%,F,T)



File:23DDE095D2 #1-1242 Acq:23-DEC-2009 14:26:52 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LQ2LA-2-AC :G9L120491-5RX Exp:DB225
 327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28876,0.1,00%,F,T) A4.50E7
 100 %



File: 23DB09SD2 #1-1242 Acq: 23-DEC-2009 14:26:52 GC EI+ Voltage SIR 70SE
 Sample# 10 Text: LQ21A-2-AC : G9L120491-5RX Exp: DB225
 375.8364 S: 10 SMO(1.3) BSUB(1000.15,-3.0) PKD(5.3,3,100.00%,6700.0,1.00%,F,T)



Run text: LQ2LC-2-AC Sample text: LQ2LC-2-AC :G9L120491-6RX
 Run #9 Filename: 23DE094D5 S: 9 I: 1 Results: 23DE094D582900S
 Acquired: 23-DEC-09 14:38:00 Processed: 23-DEC-09 15:28:39
 Run: 23DE094D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 10.18 g

05
12-28-09

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	50550200	0.81 y	19:41	-	2.774	-	-	n
13C-2,3,7,8-TCDF	120477000	0.80 y	19:06	1.46	160.494	0.407	81.7	n
2,3,7,8-TCDF	1709681000	0.79 y	19:08	1.27	2189.660 <i>see DBM</i>	0.741	-	n
Total TCDF	8343207644	0.79 y	16:22	1.27	10685.496	0.741	-	n
13C-2,3,7,8-TCDD	66741000	0.81 y	19:54	0.92	140.526	0.332	71.5	n
2,3,7,8-TCDD	16886170	0.82 y	19:56	1.23	40.514	0.411	-	n
Total TCDD	474311720	0.81 y	17:23	1.23	1137.992	0.411	-	n
37Cl-2,3,7,8-TCDD	85642200	1.00 y	19:56	2.52	66.161	0.657	84.2	n
13C-1,2,3,7,8-PeCDF	81623000	1.60 y	24:53	1.27	125.205	0.449	63.7	n
1,2,3,7,8-PeCDF	1069923000	1.49 y	24:54	1.30	1978.397 E	6.624 G	-	n
2,3,4,7,8-PeCDF	534240000	1.52 y	26:25	1.25	1028.825 E	6.899 G	-	n
Total F2 PeCDF	7605512867	1.69 y	22:30	1.28	14329.722	6.759	-	n
Total F1 PeCDF	219079657	0.87 n	19:43	1.28	413.329	0.156	-	n
13C-1,2,3,7,8-PeCDD	45124300	1.54 y	27:14	0.77	113.526	0.008	57.8	n
1,2,3,7,8-PeCDD	36038100	1.59 y	27:16	1.24	126.390 /	2.736 G	-	n
Total PeCDD	362780780	1.56 y	23:32	1.24	1272.314	2.736	-	n
13C-1,2,3,7,8,9-HxCDD	38177600	1.32 y	33:13	-	2.121	-	-	n
13C-1,2,3,4,7,8-HxCDF	62180400	0.52 y	32:05	1.19	134.756	1.925	68.6	n
1,2,3,4,7,8-HxCDF	1595943000	1.22 y	32:05	1.31	3857.173 E	15.585 G	-	y
1,2,3,6,7,8-HxCDF	1181662000	1.22 y	32:13	1.64	2643.623 E <i>2272.91</i>	14.427	-	n
2,3,4,6,7,8-HxCDF	294870000	1.20 y	32:45	1.33	698.349 /	15.272	-	y
1,2,3,7,8,9-HxCDF	154070000	1.13 y	33:25	1.20	407.190 /	17.042	-	y
Total HxCDF	6572986303	2.15 n	30:25	1.31	15663.548	15.526	-	y
13C-1,2,3,6,7,8-HxCDD	41726200	1.28 y	32:57	0.75	143.778	0.142	73.2	n
1,2,3,4,7,8-HxCDD	17412360	1.23 y	32:53	1.05	65.994 / <i>77.931</i>	1.985	-	n
1,2,3,6,7,8-HxCDD	49261400	1.26 y	32:58	1.48	156.774 /	1.666	-	n
1,2,3,7,8,9-HxCDD	47227500	1.23 y	33:14	1.47	150.998 /	1.674	-	n
Total HxCDD	308723340	1.23 y	31:34	1.40	1029.854	1.763	-	n
13C-1,2,3,4,6,7,8-HpCDF	32663800	0.45 y	34:44	0.91	92.009	1.993	46.8	n
1,2,3,4,6,7,8-HpCDF	2294330000	1.02 y	34:44	1.59	8652.402 E	14.737 G	-	n
1,2,3,4,7,8,9-HpCDF	911422000	1.03 y	35:52	1.33	4117.543 E	17.654	-	n
Total HpCDF	4508143330	1.02 y	34:44	1.46	18123.876	16.064	-	n
13C-1,2,3,4,6,7,8-HpCDD	22902800	1.02 y	35:32	0.71	82.556	0.536	42.0	n
1,2,3,4,6,7,8-HpCDD	96336800	1.03 y	35:33	1.31	632.109 /	1.804	-	n
Total HpCDD	140861492	0.30 n	34:34	1.31	924.255	1.804	-	n
13C-OCDD	24839400	0.91 y	38:04	0.61	105.483	0.394	26.8	n

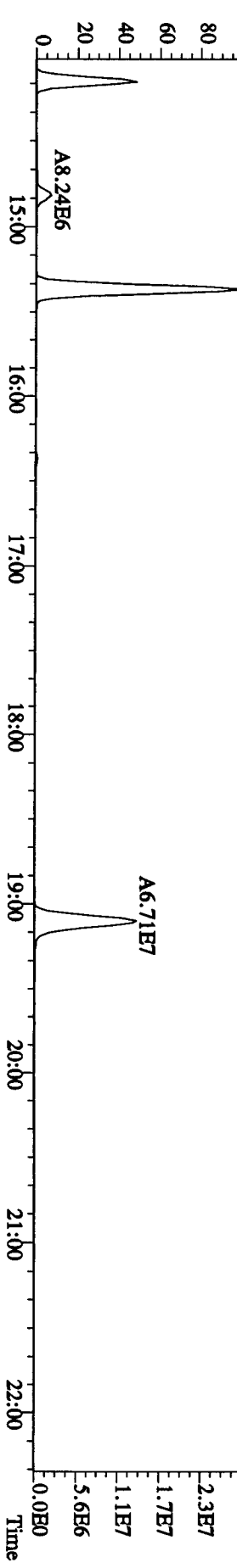
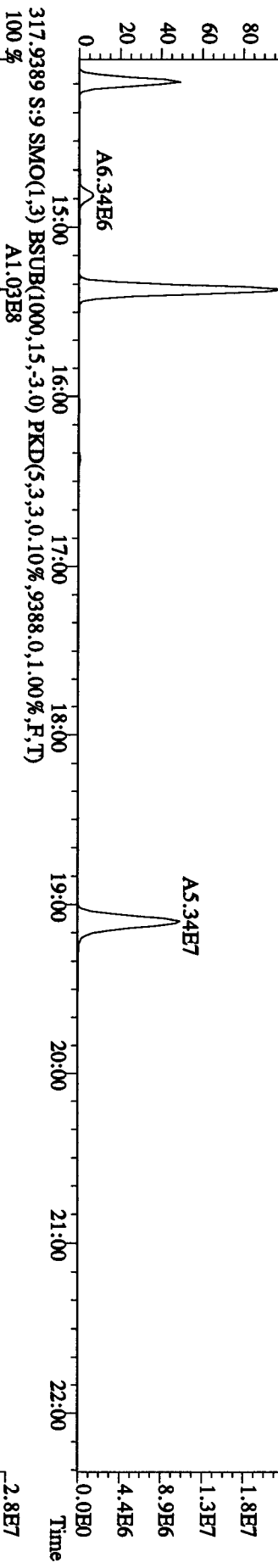
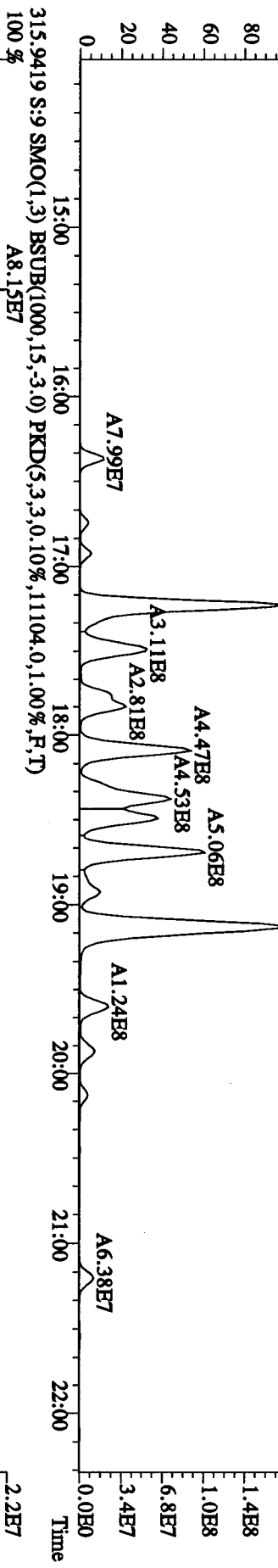
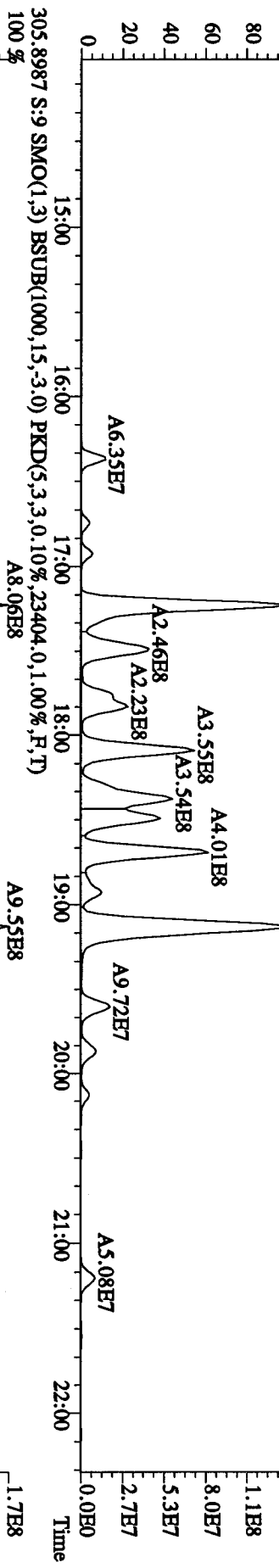
OCDF	2793200000	0.89	y	38:11	1.51	29276.590	E	13.446	G	-	n
OCDD	45284100	0.89	y	38:05	1.19	600.162	,	1.428		-	n

Run text: LQ2LC-2-AC Sample text: LQ2LC-2-AC :G9L120491-6RX
 Run #9 Filename: 23DE094D5 S: 9 I: 1 Results: 23DE094D58290
 Acquired: 23-DEC-09 14:38:00 Processed: 23-DEC-09 15:28:39
 Run: 23DE094D5 Analyte: 8290HRS Cal: 82900916094D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.18007g

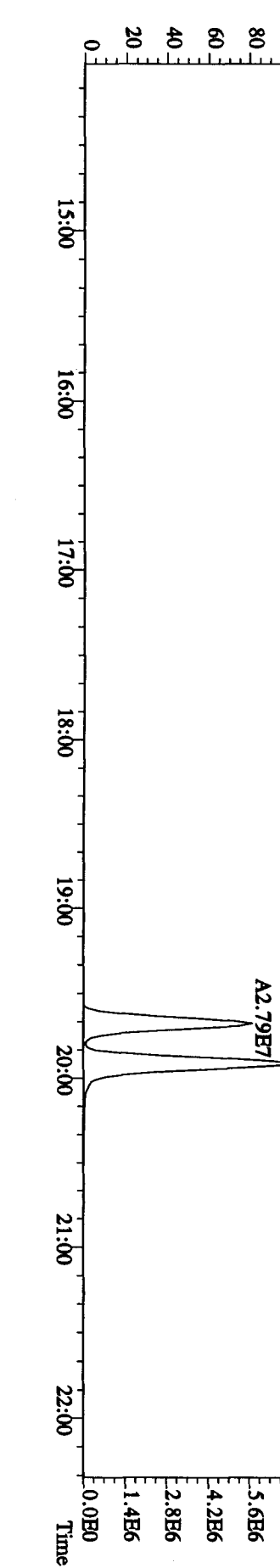
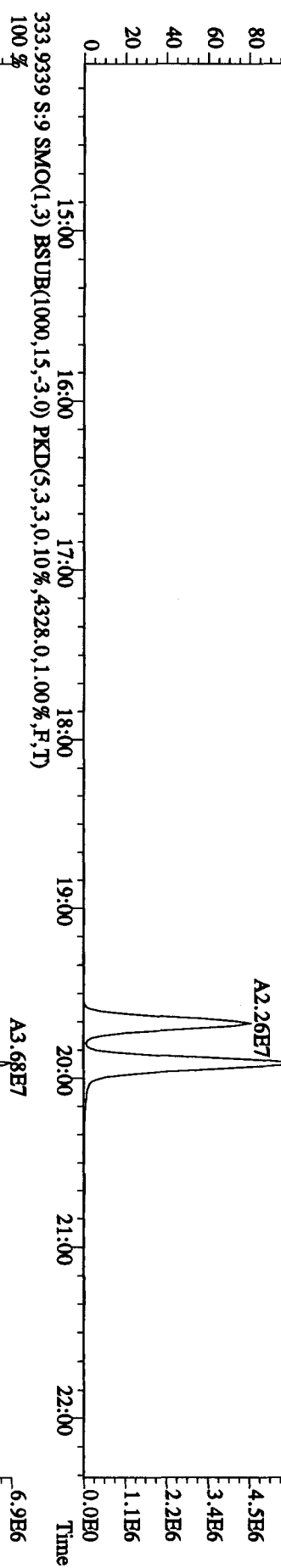
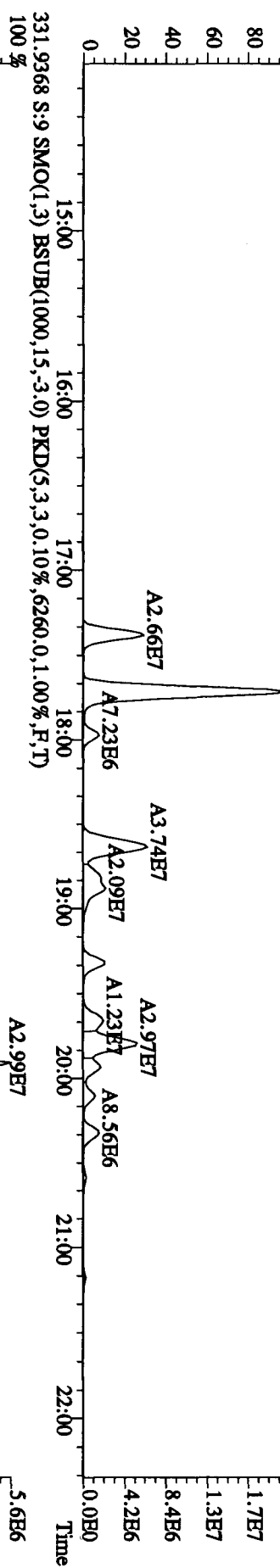
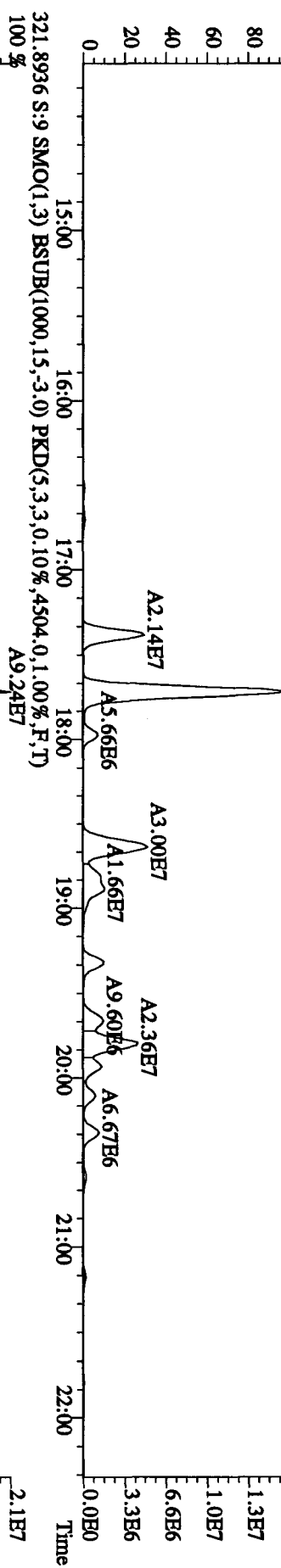
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	50550198	0.81 y	19:41	-	2.77	-	-	n
13C-2,3,7,8-TCDF	120476980	0.80 y	19:06	1.46	160.49	0.41	81.7	n
2,3,7,8-TCDF	1709680384	0.79 y	19:08	1.27	2189.66	0.74	-	n
Total TCDF	8343206754	0.79 y	16:22	1.27	10685.50	0.74	-	n
13C-2,3,7,8-TCDD	66741056	0.81 y	19:54	0.92	140.53	0.33	71.5	n
2,3,7,8-TCDD	16886173	0.82 y	19:56	1.23	40.51	0.41	-	n
Total TCDD	474311726	0.81 y	17:23	1.23	1137.99	0.41	-	n
37Cl-2,3,7,8-TCDD	85642264	1.00 y	19:56	2.52	66.16	0.66	84.2	n
13C-1,2,3,7,8-PeCDF	81623006	1.60 y	24:53	1.27	125.20	0.45	63.7	n
1,2,3,7,8-PeCDF	1069923072	1.49 y	24:54	1.30	1978.40	6.62	-	n
2,3,4,7,8-PeCDF	534239408	1.52 y	26:25	1.25	1028.82	6.90	-	n
Total F2 PeCDF	7605514901	1.69 y	22:30	1.28	14329.72	6.76	-	n
Total F1 PeCDF	219079283	0.87 n	19:43	1.28	413.33	0.16	-	n
13C-1,2,3,7,8-PeCDD	45124294	1.54 y	27:14	0.77	113.53	0.01	57.8	n
1,2,3,7,8-PeCDD	36038110	1.59 y	27:16	1.24	126.39	2.74	-	n
Total PeCDD	362780805	1.56 y	23:32	1.24	1272.31	2.74	-	n
13C-1,2,3,7,8,9-HxCDD	38177598	1.32 y	33:13	-	2.12	-	-	n
13C-1,2,3,4,7,8-HxCDF	62180478	0.52 y	32:05	1.19	134.76	1.93	68.6	n
1,2,3,4,7,8-HxCDF	1779713344	1.21 y	32:05	1.31	4301.31	15.58	-	n
1,2,3,6,7,8-HxCDF	1181662272	1.22 y	32:13	1.41 1.64	2643.67 2272.91	14.43	-	n
2,3,4,6,7,8-HxCDF	620523840	1.23 y	32:41	1.33	1469.60	15.27	-	n
1,2,3,7,8,9-HxCDF	418702128	1.23 y	33:27	1.20	1106.58	17.04	-	n
Total HxCDF	7347041930	2.15 n	30:25	1.31	17578.32	15.53	-	n
13C-1,2,3,6,7,8-HxCDD	41726158	1.28 y	32:57	0.75	143.78	0.14	73.2	n
1,2,3,4,7,8-HxCDD	17412360	1.23 y	32:53	1.24 1.05	65.99 77.931	1.98	-	n
1,2,3,6,7,8-HxCDD	49261406	1.26 y	32:58	1.48	156.77	1.67	-	n
1,2,3,7,8,9-HxCDD	47227538	1.23 y	33:14	1.47	151.00	1.67	-	n
Total HxCDD	308723380	1.23 y	31:34	1.40	1029.86	1.76	-	n
13C-1,2,3,4,6,7,8-HpCDF	32663732	0.45 y	34:44	0.91	92.01	1.99	46.8	n
1,2,3,4,6,7,8-HpCDF	2294330368	1.02 y	34:44	1.59	8652.42	14.74	-	n
1,2,3,4,7,8,9-HpCDF	911421856	1.03 y	35:52	1.33	4117.55	17.65	-	n
Total HpCDF	4508142498	1.02 y	34:44	1.46	18123.91	16.06	-	n
13C-1,2,3,4,6,7,8-HpCDD	22902805	1.02 y	35:32	0.71	82.56	0.54	42.0	n
1,2,3,4,6,7,8-HpCDD	96336788	1.03 y	35:33	1.31	632.11	1.80	-	n
Total HpCDD	140861466	0.30 n	34:34	1.31	924.26	1.80	-	n
13C-OCDD	24839355	0.91 y	38:04	0.61	105.48	0.39	26.8	n

OCDF	2793202304	0.89	y	38:11	1.51	29276.67	13.45	-	n
OCDD	45284118	0.89	y	38:05	1.19	600.16	1.43	-	n

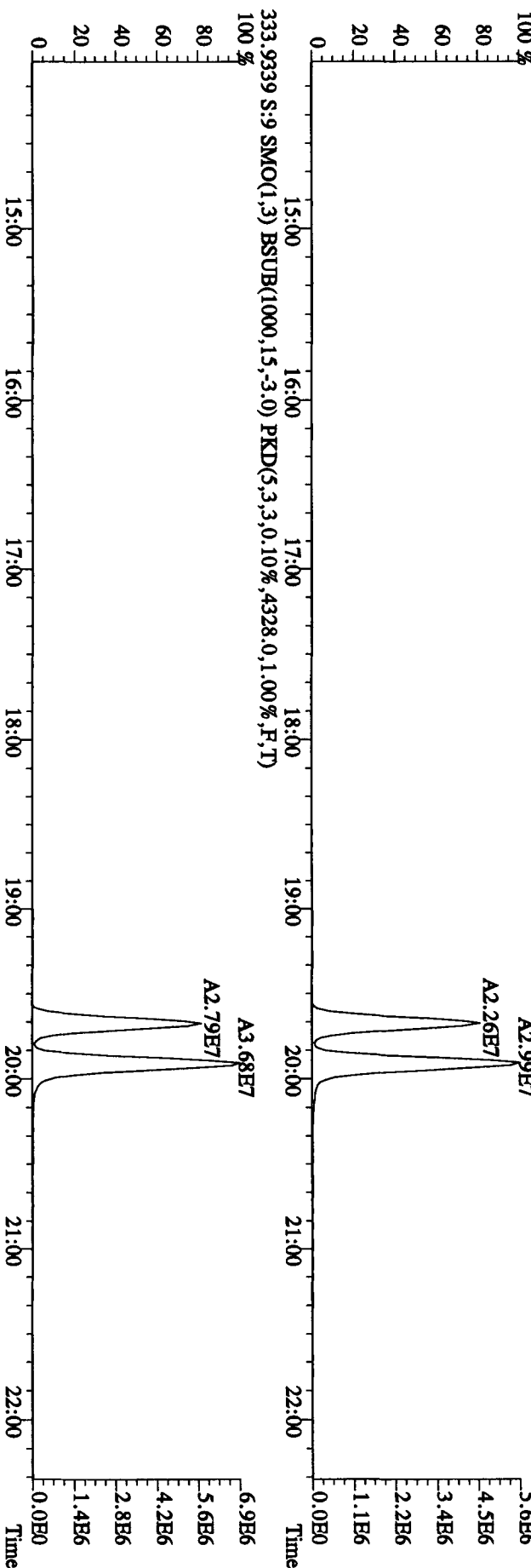
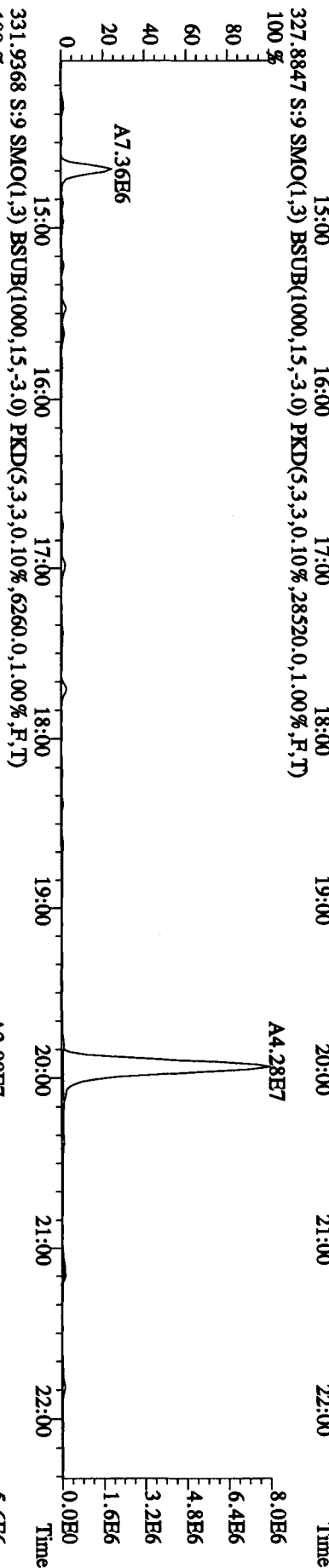
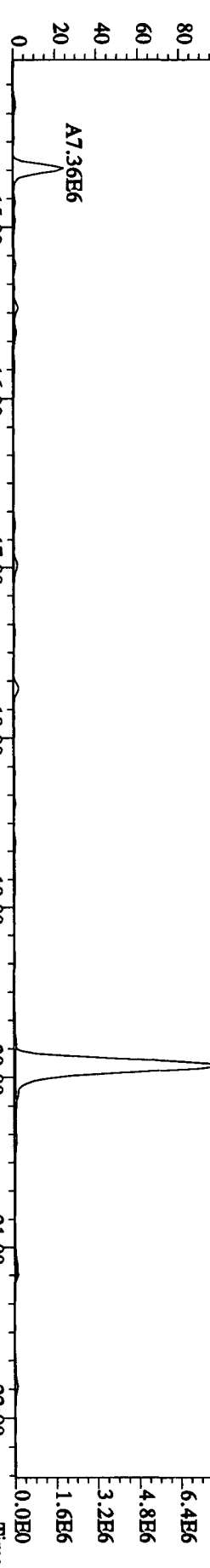
File:23DB094D5 #1-578 Acq:23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text:LQ2LC-2-AC :G9L120491-6RX Exp:DIOXIN
 303.9016 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,16312,0,1,00%,F,T)
 100 % A6.36E8



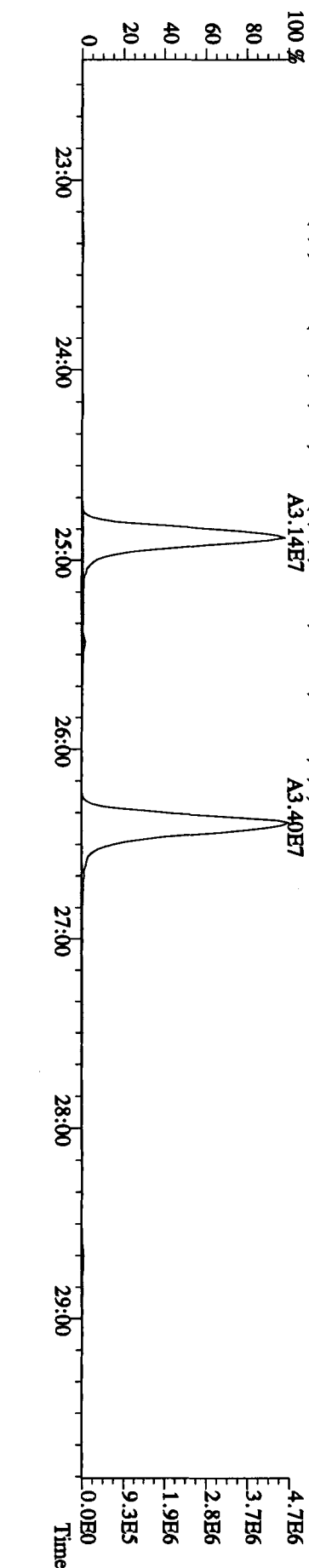
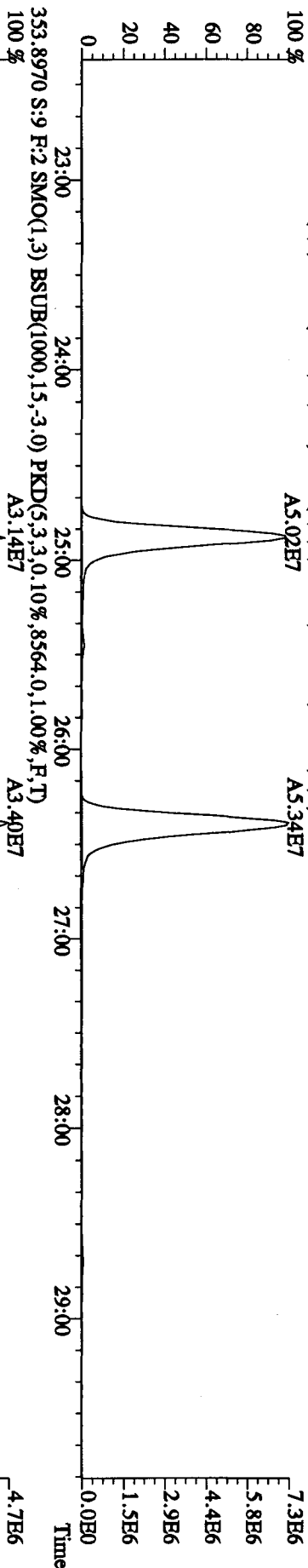
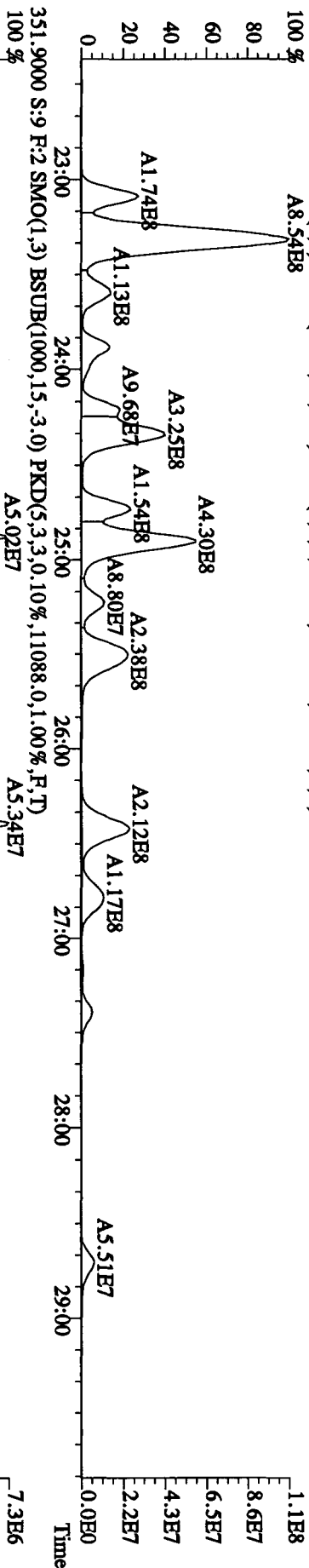
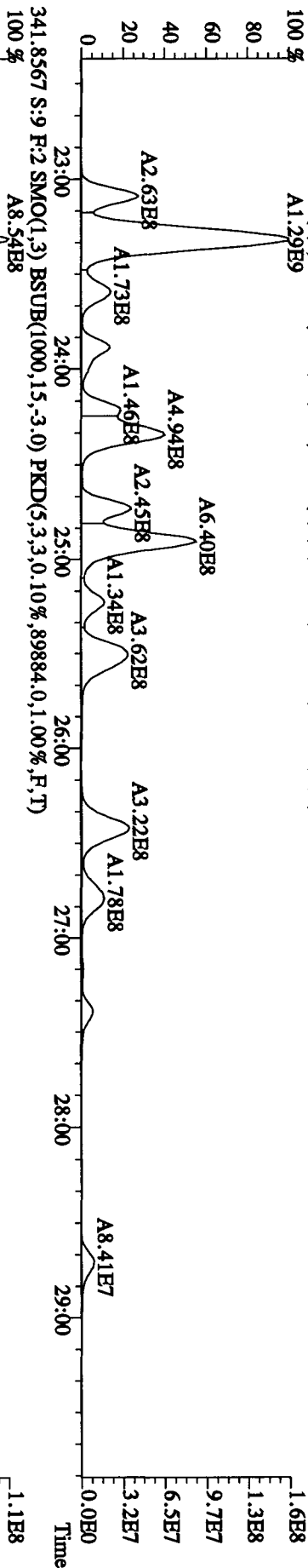
File:23DE094D5 #1-578 Acq:23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text:LQ2LC-2-AC :G9L120491-6RX Exp:DIOXIN
 319.8965 S:9 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6220.0,1.00%,F,T)
 A7.33E7



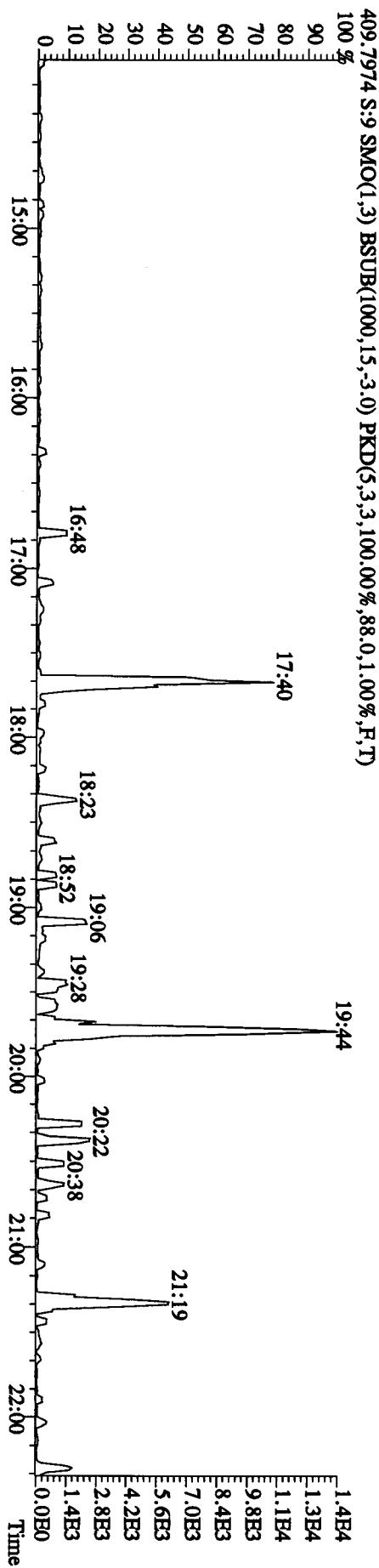
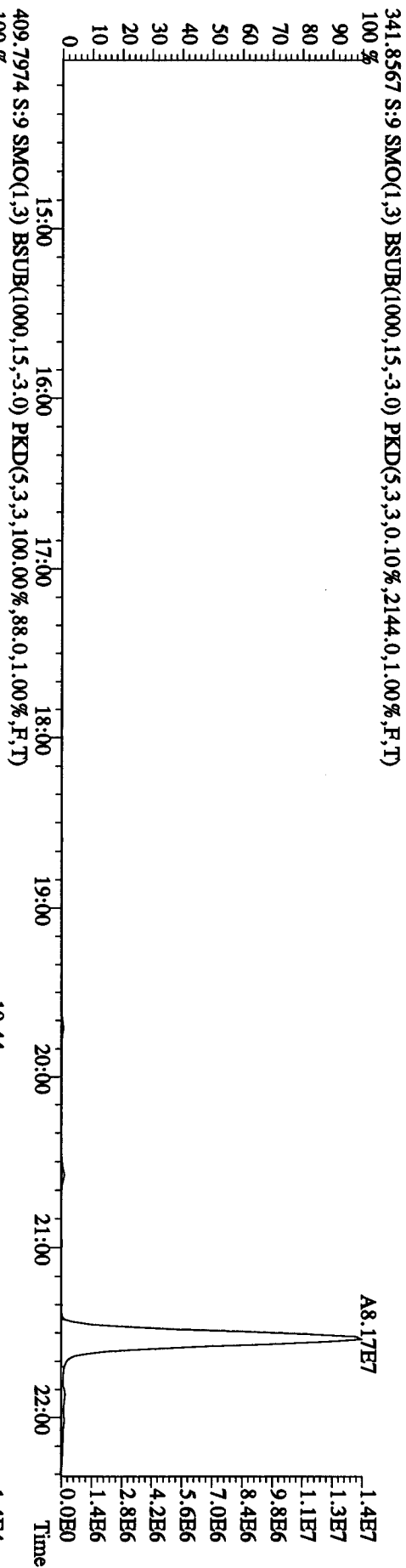
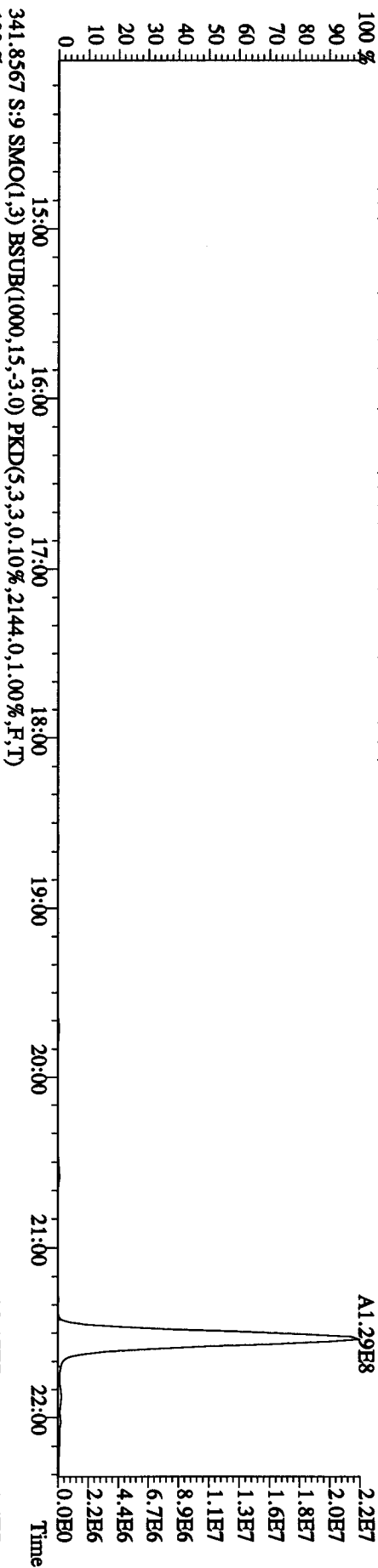
File: 23DDE094D5 #1-578 Acq: 23-DEC-2009 14:38:00 GC EI + Voltage SIR Autospec-UltimaE
 Sample#9 Text: LQ2LC-2-AC : G9L120491-6RX Exp: DIOXIN
 327.8847 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,28520,0,1,00%,F,T)
 100 %

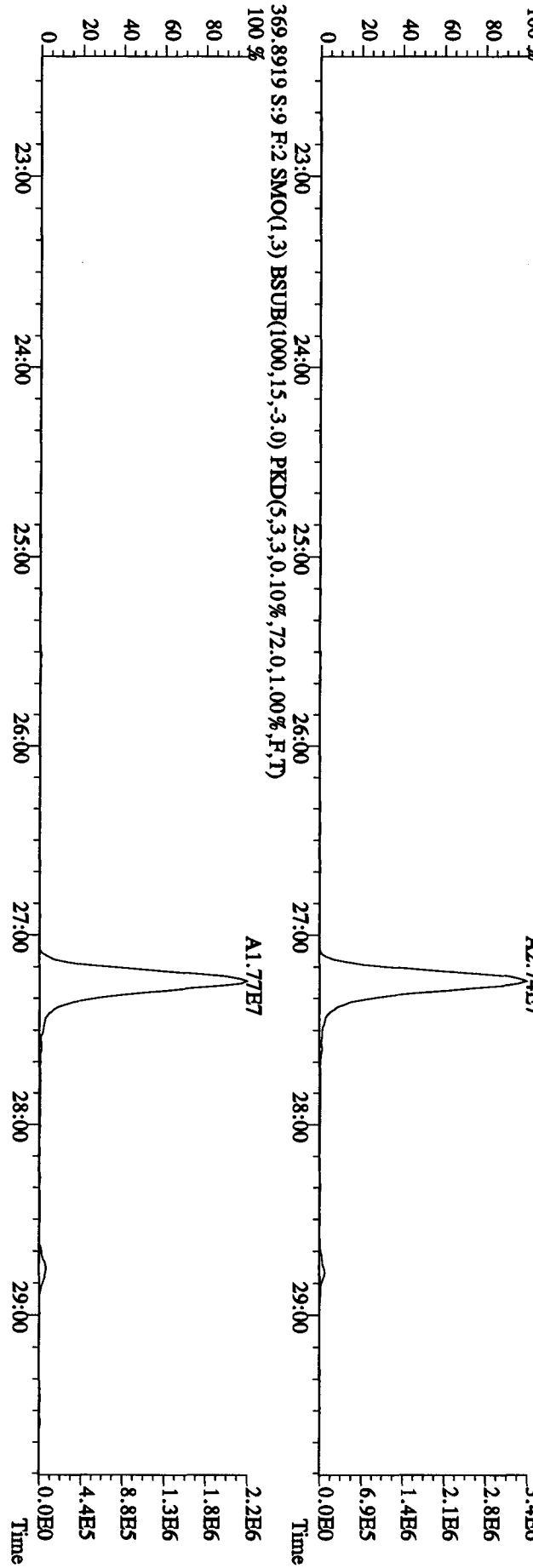
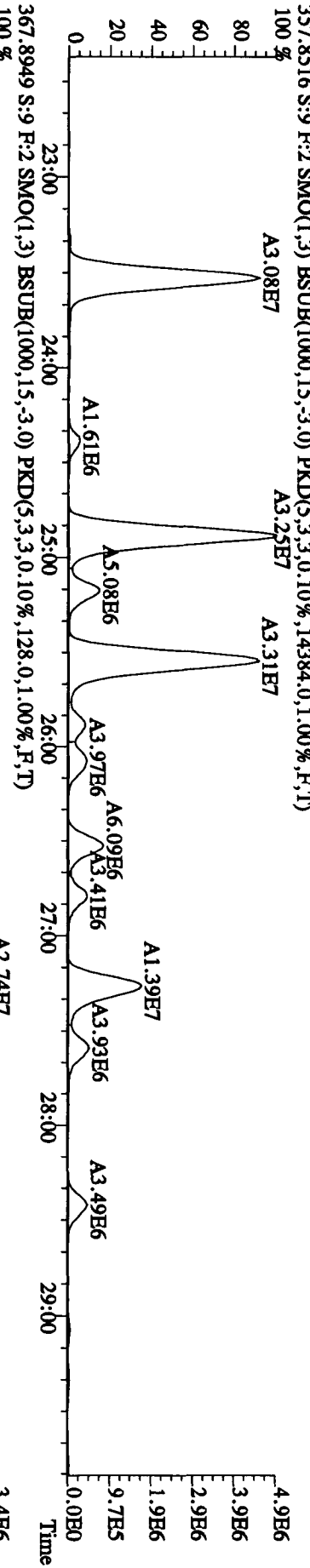
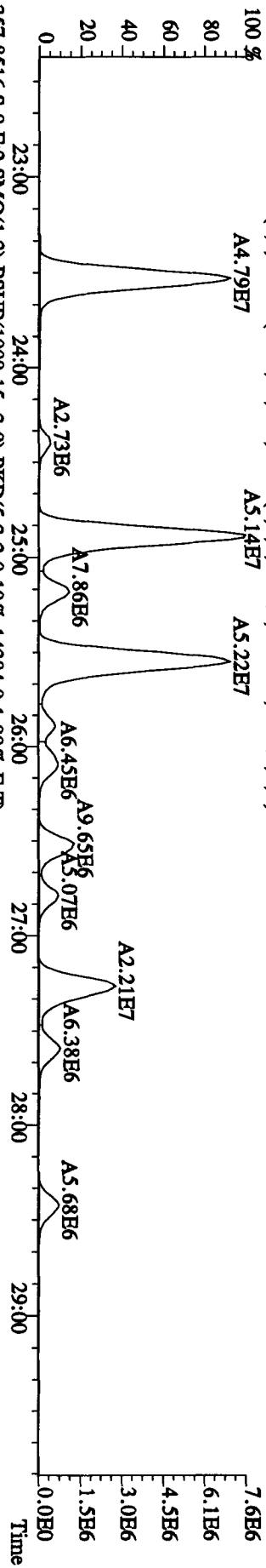


File: 23DB094D5 #1-596 Acq: 23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#9 Text: LQ2LC-2-AC : G9L120491-6RX Exp: DIOXIN
 339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,82132,0,1,00%,F,T)
 100% A1.29B9



File:23DBE094D5 #1-578 Acq:23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#9 Text:LO2LC-2-AC :G9L120491-6RX Exp:DIOXIN
 339.8597 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1836,0,1,00%,F,T)

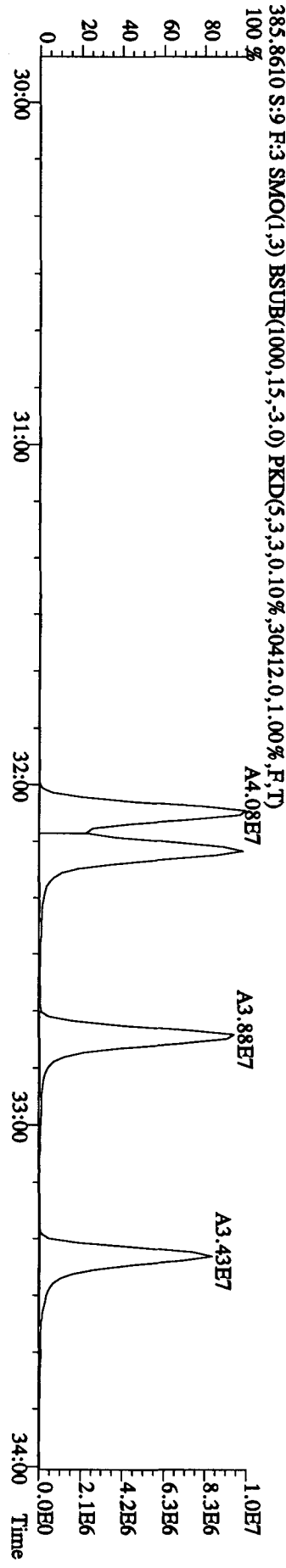
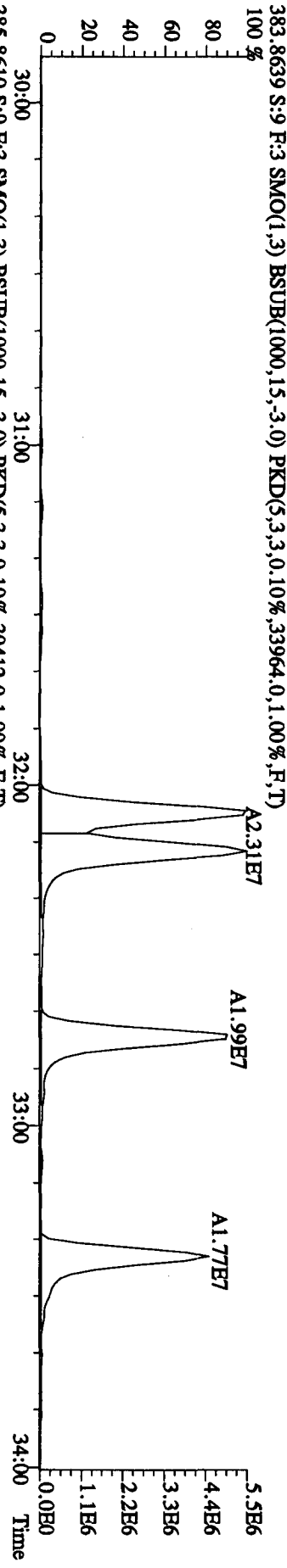
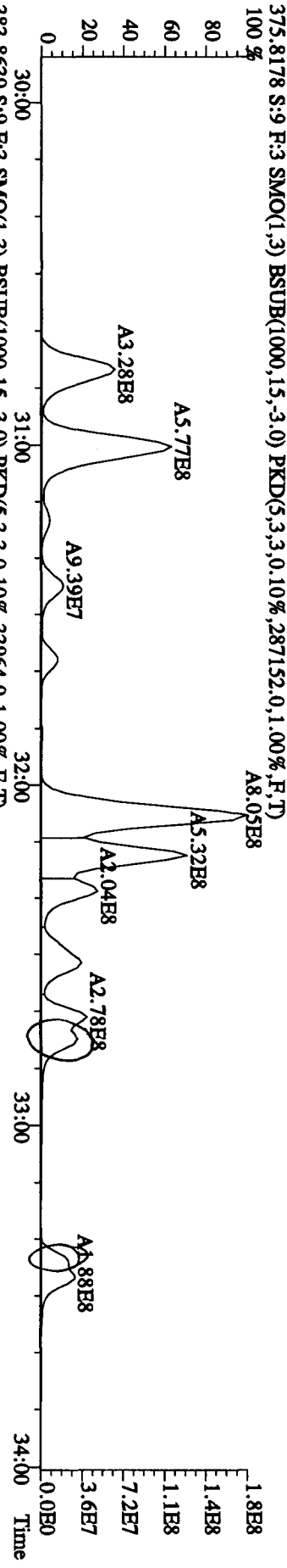
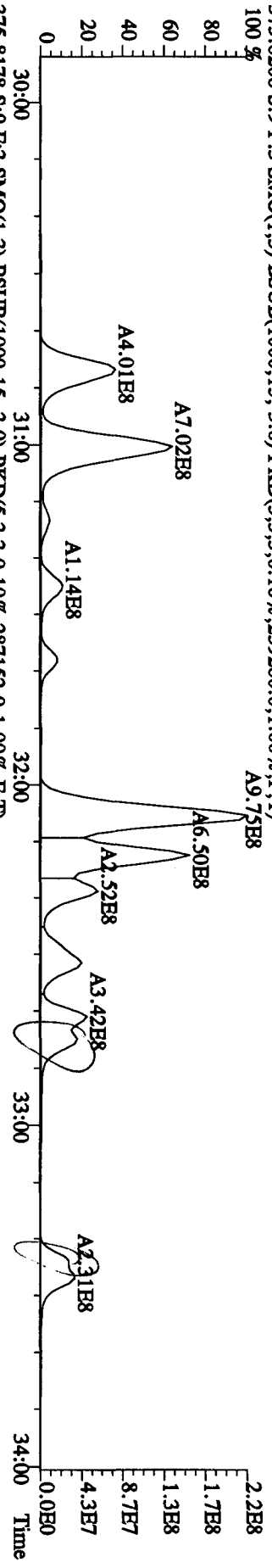


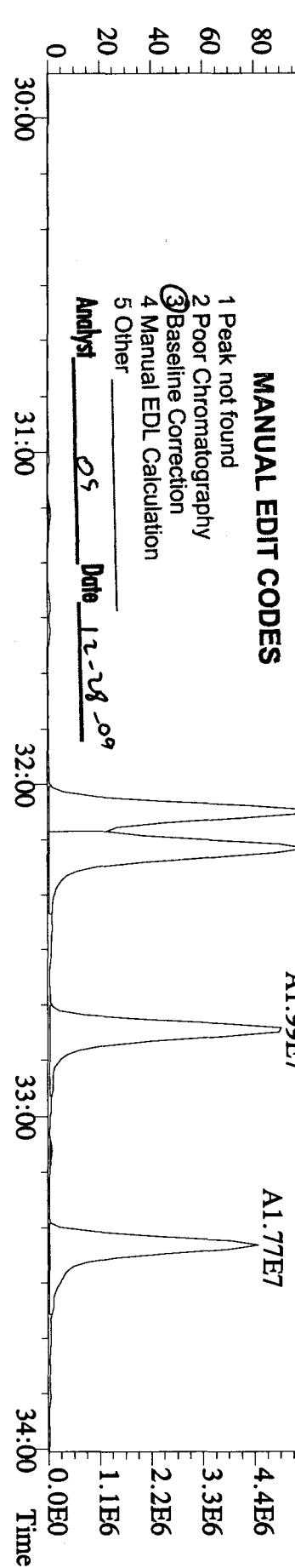
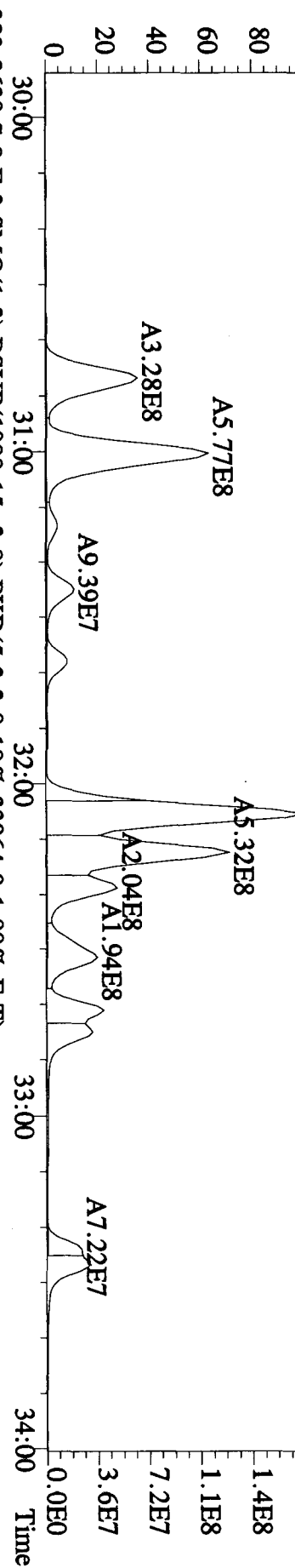
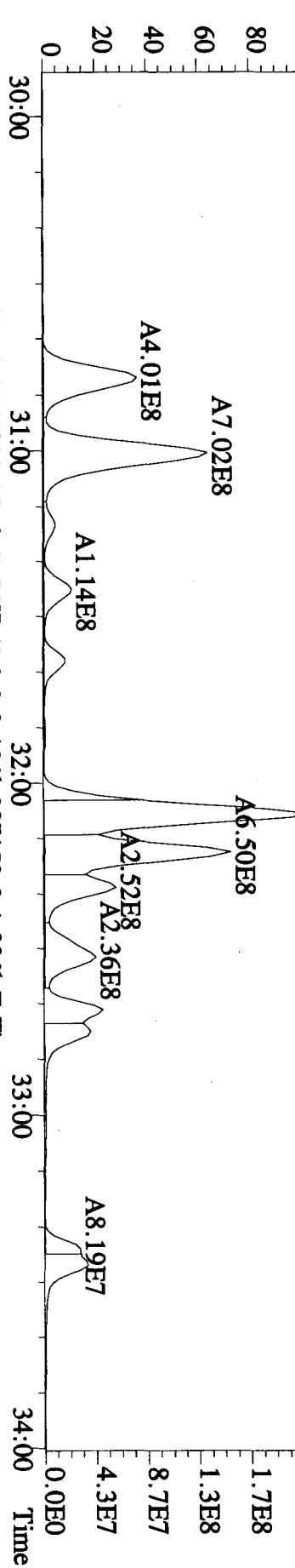


File:23DBE094D5 #1-314 Acq:23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-Ultimate

Sample#9 Text:LQ2LC-2-AC :G9L120491-6RX Exp:DIOXIN

373.8208 S:9 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,259280.0,1.00%,F,T)



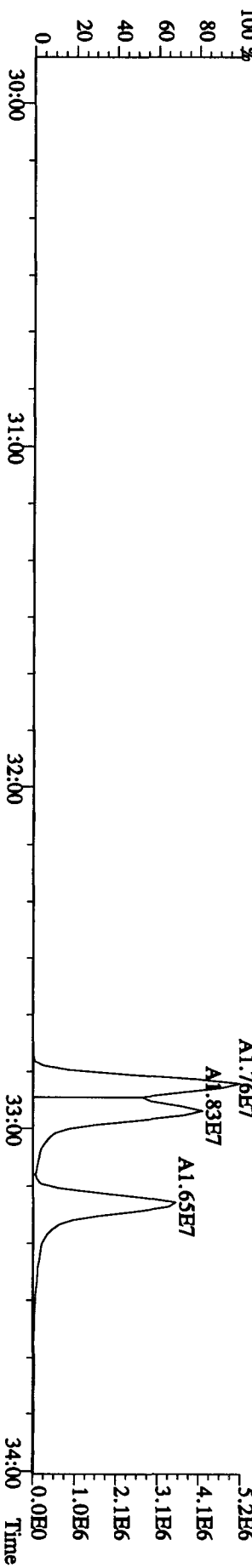
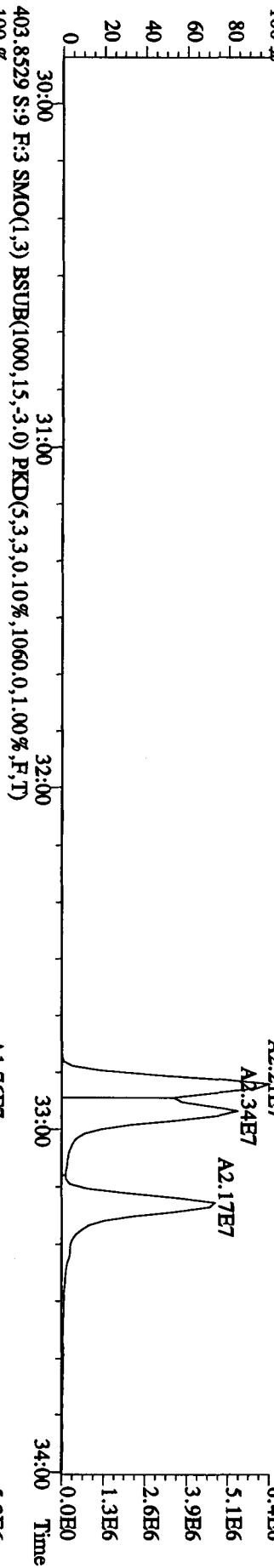
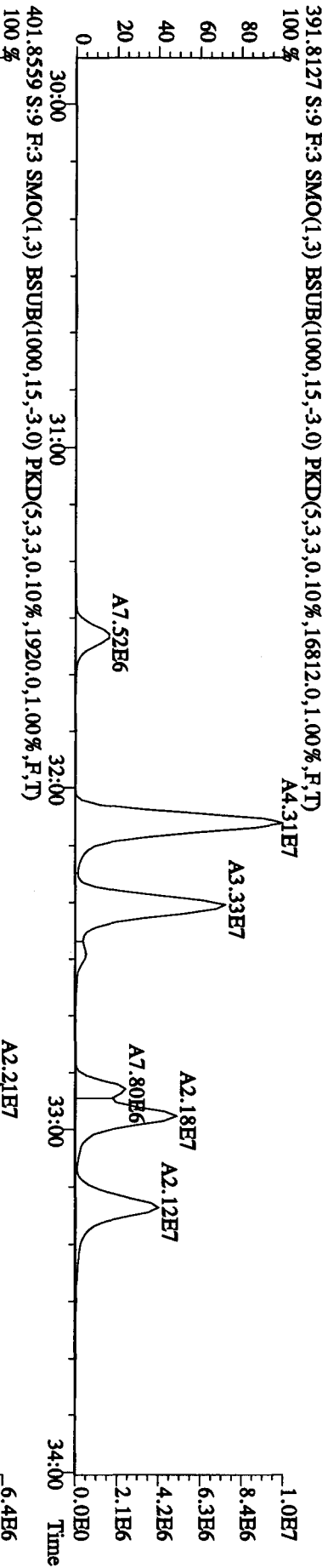
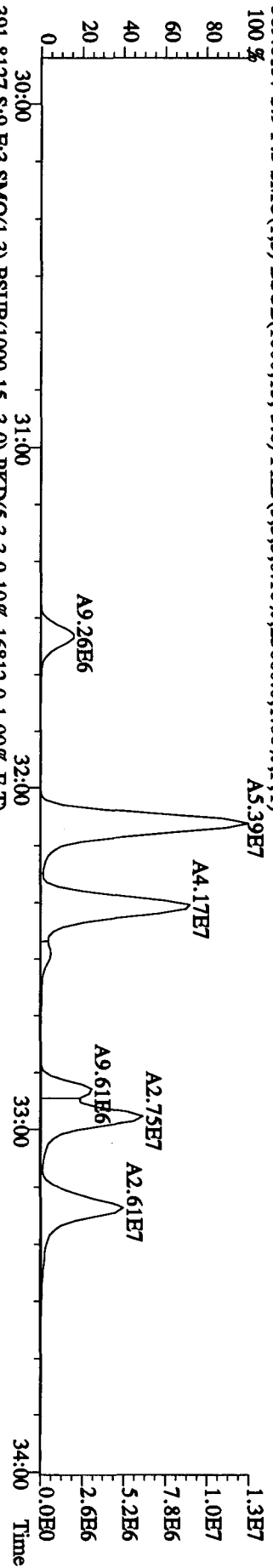


MANUAL EDIT CODES

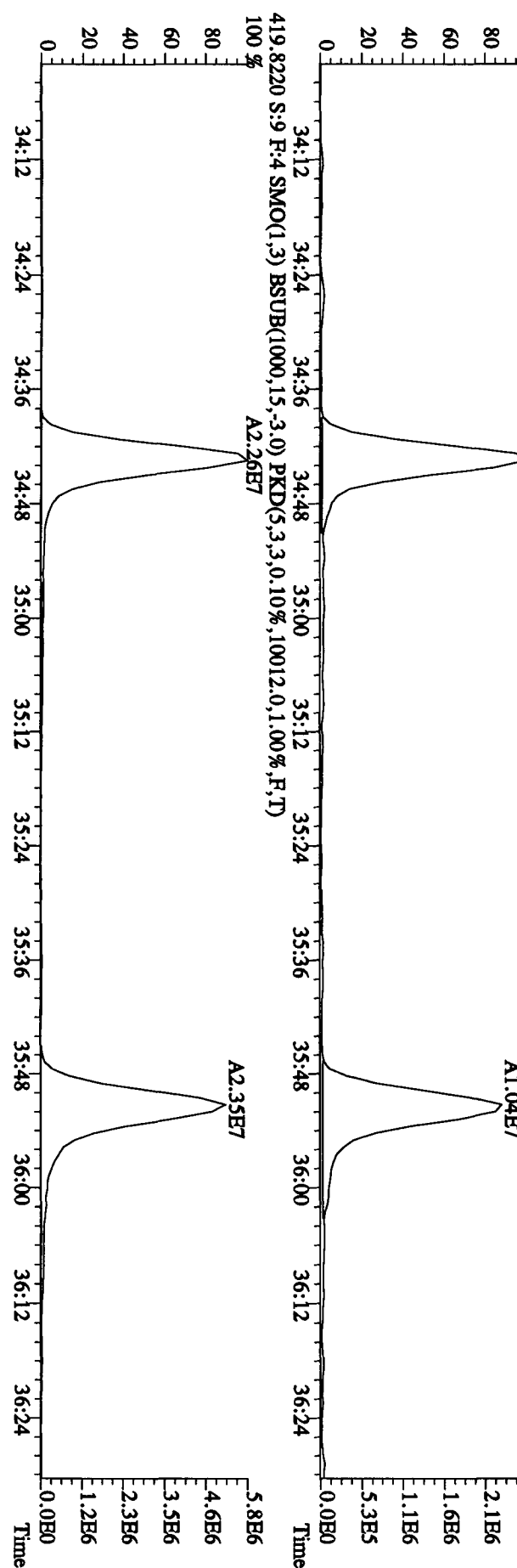
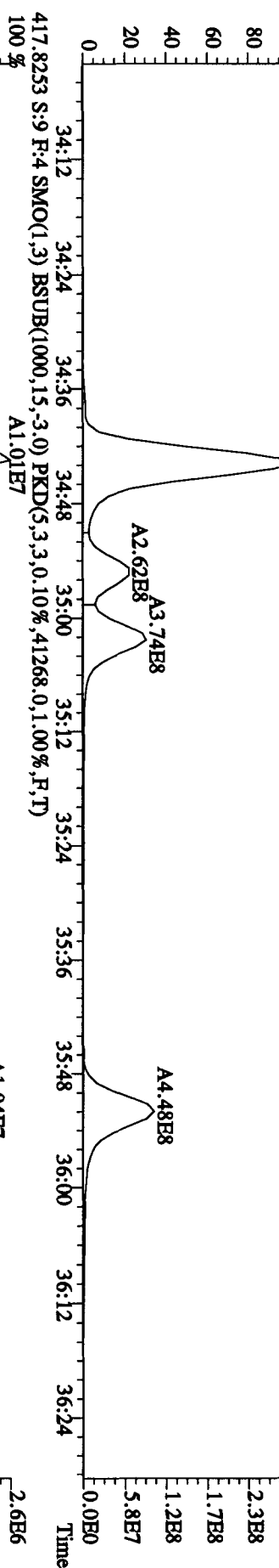
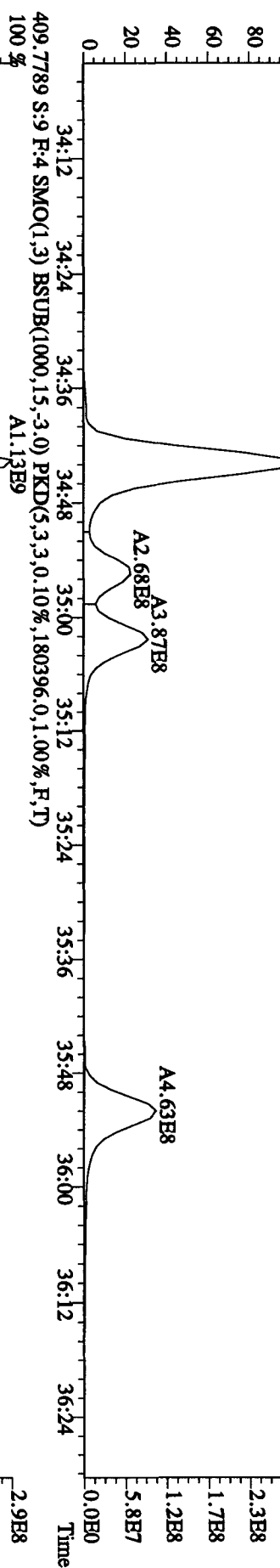
- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other

Analyst CS Date 12-28-09

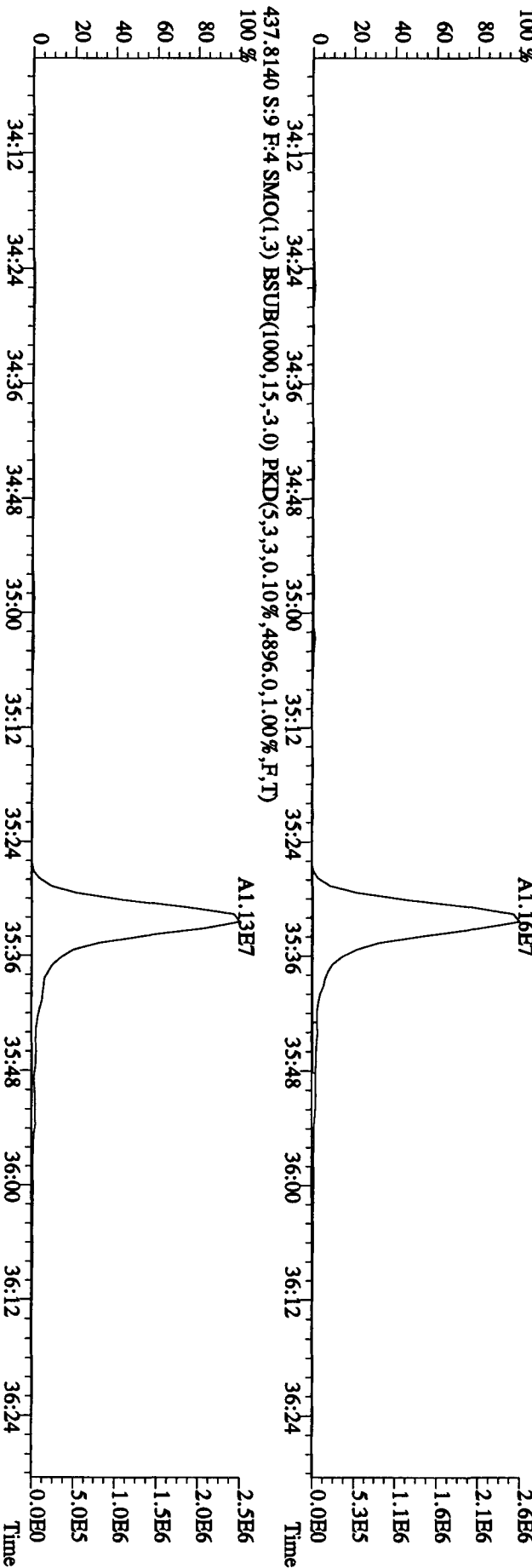
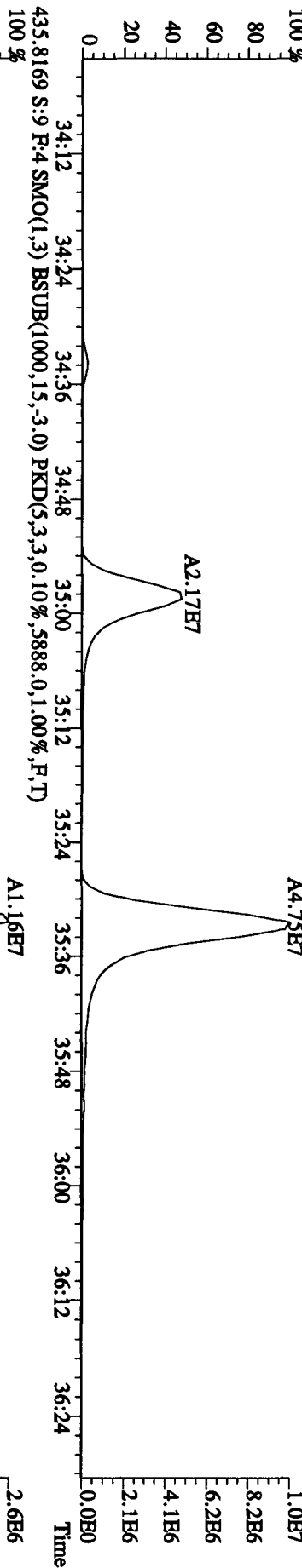
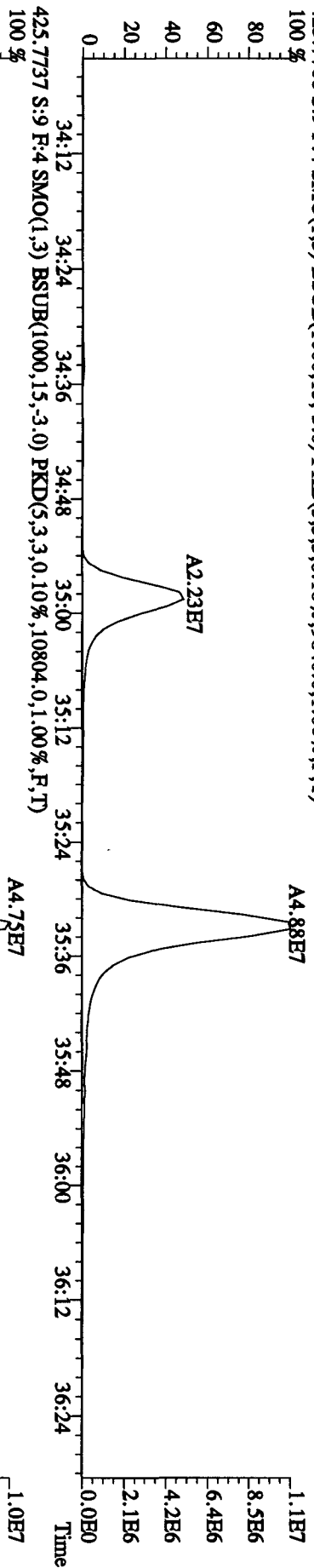
File:23DE094D5 #1-314 Acq:23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text:LQ2LC-2-AC :G9L120491-6RX Exp:DIOXIN
 389.8157 S:9 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,23660,0,1,00%,F,T)



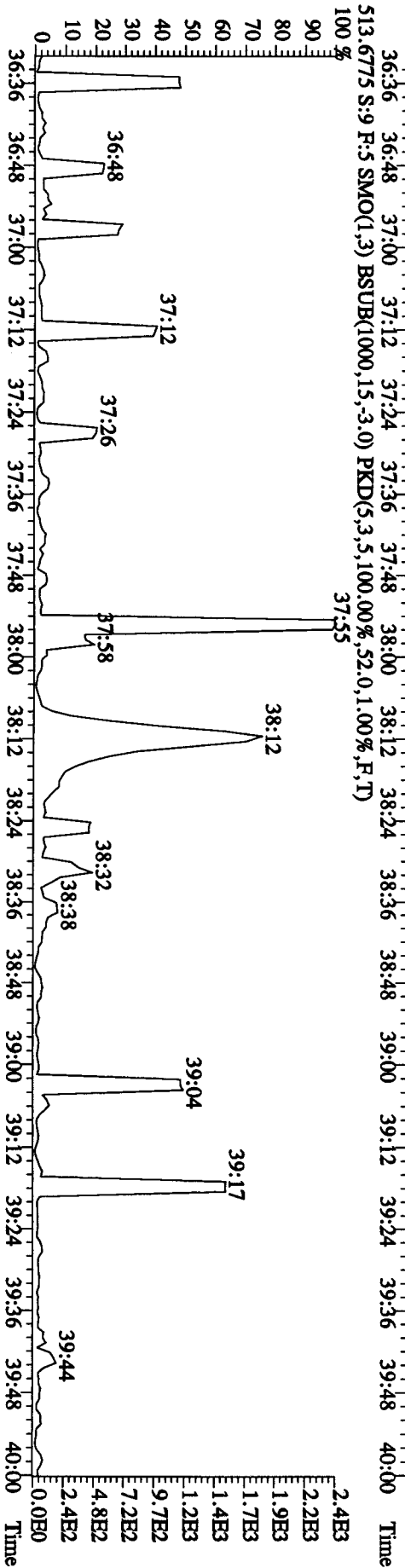
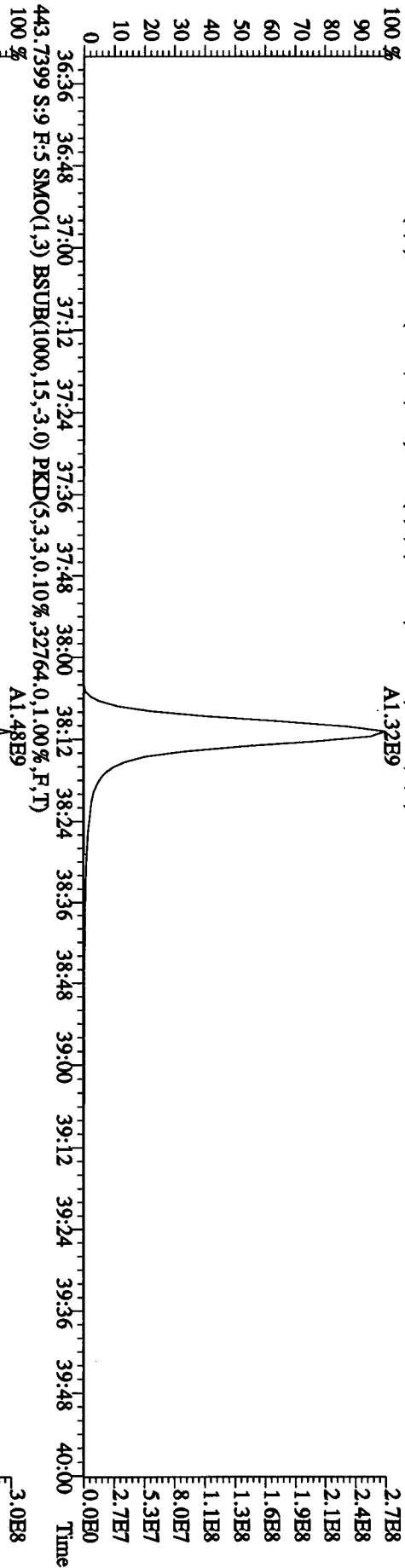
File:23DDE094D5 #1-198 Acq:23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text:LOZLC-2-AC :G9L120491-6RX Exp:DIOXIN
 407.7818 S:9 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,155512.0,1.00%,F,T)
 100%



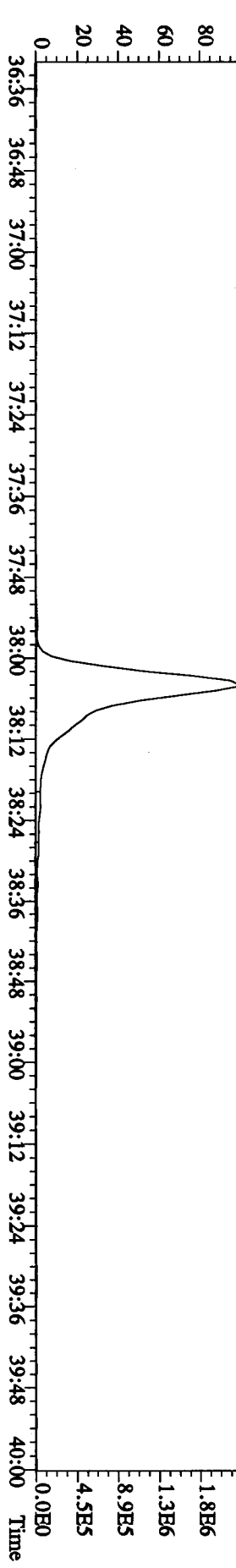
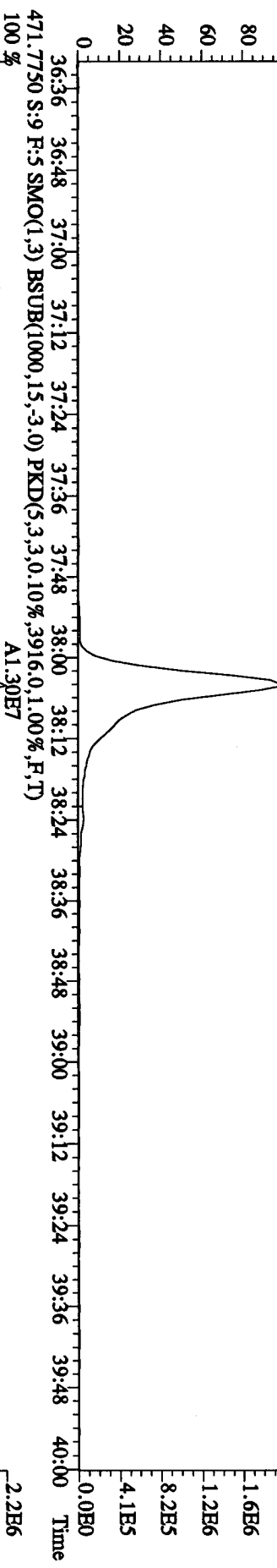
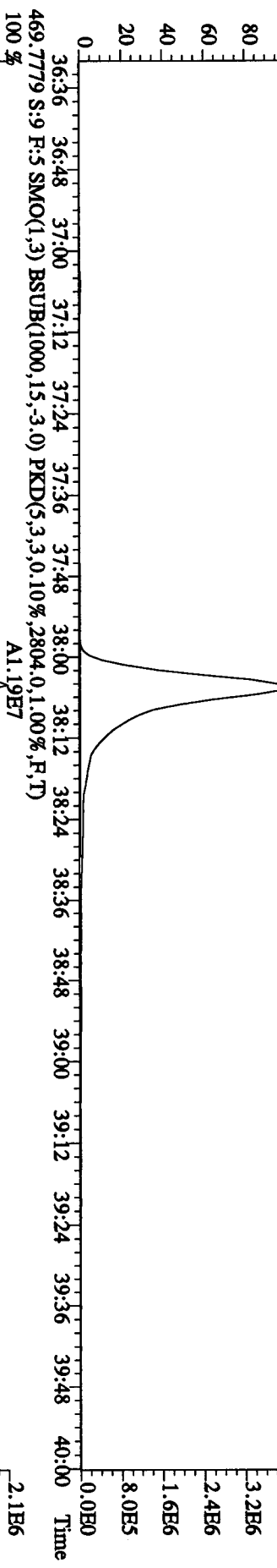
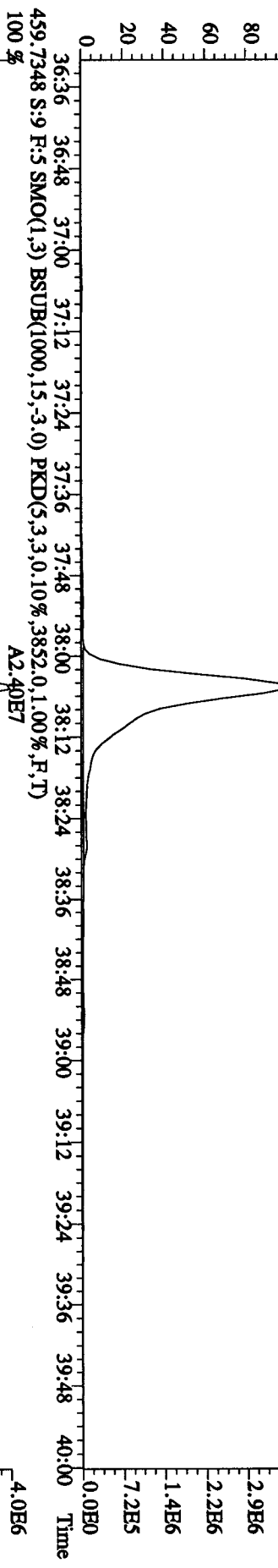
File: 23DBE094D5 #1-198 Acq: 23-DEC-2009 14:38:00 GC EI + Voltage SIR Autospec-UtimaE
Sample#9 Text: LQ2LC-2-AC :G9L120491-6RX Exp: DIOXIN
423.7766 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9640.0,1.00%,F,T)

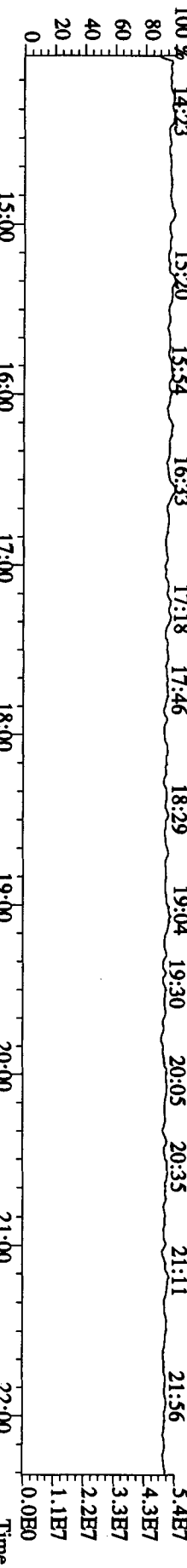
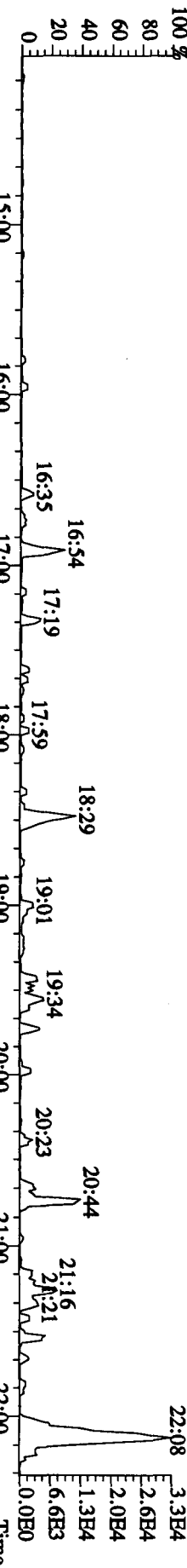
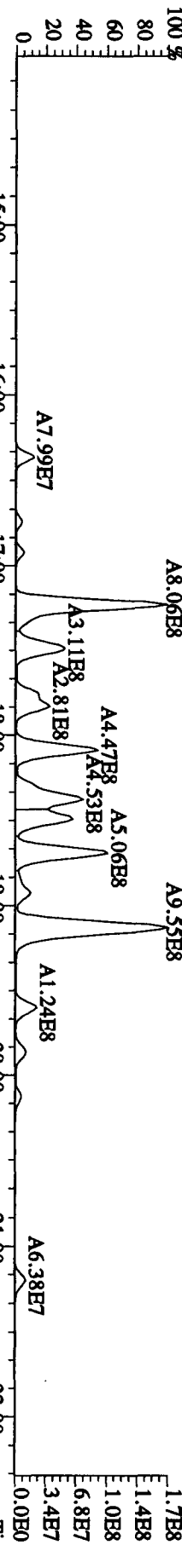
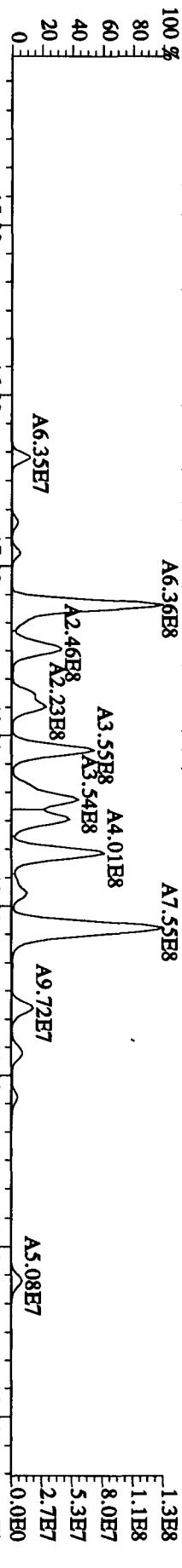
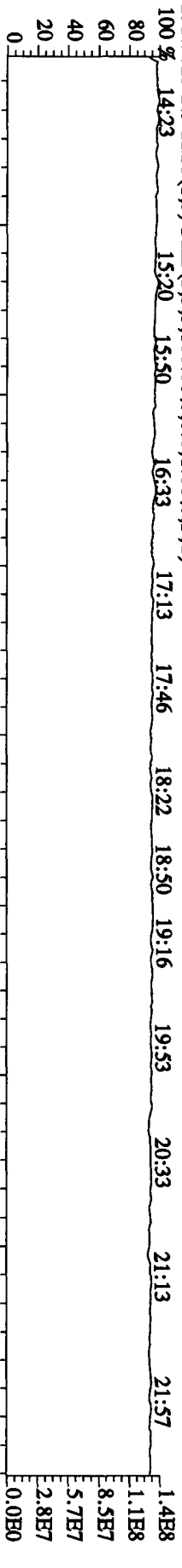


File:23DBE094D5 #1-281 Acq:23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-UltimaE
Sample#9 Text:LQ2LC-2-AC :G9L120491-6RX Exp:DIOXIN
441.7428 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,41052.0,1.00%,F,T)
100% A1.32B9



File:23DBE094D5 #1-281 Acq:23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text:LOZILC-2-AC :G9L120491-6RX Exp:DIOXIN
 457.7377 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2348.0,1.00%,F,T)
 100 % A2.13E7

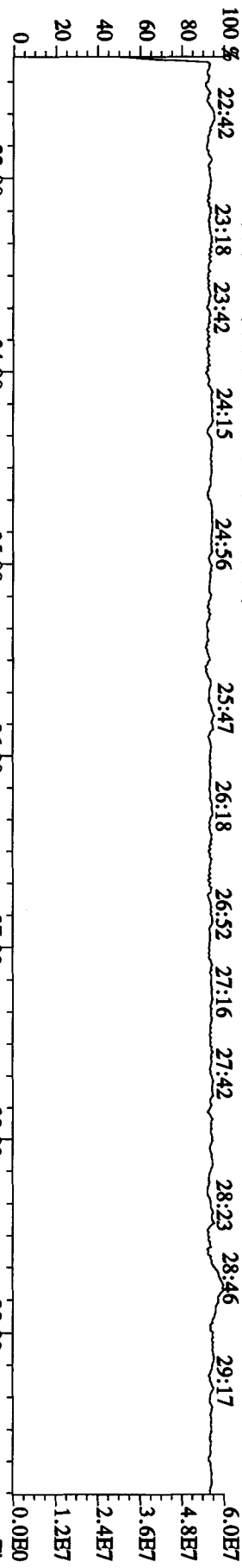




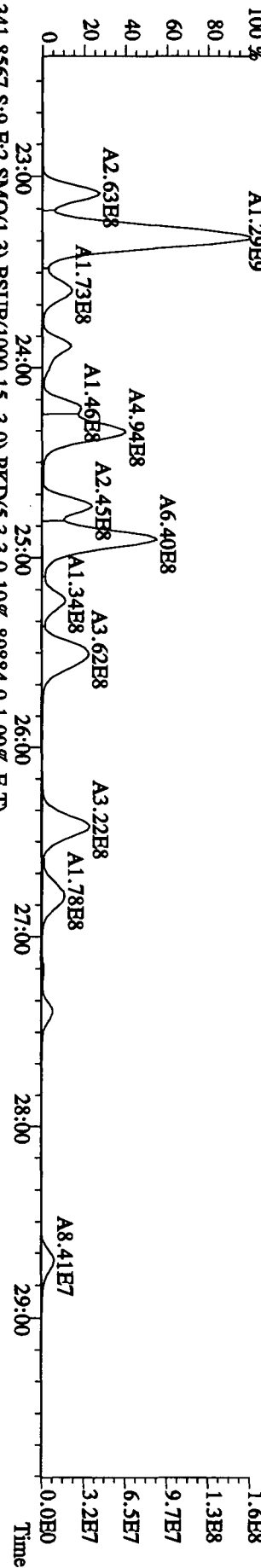
File: 23DDE094D5 #1-596 Acq: 23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-UltimaE

Sample#9 Text: LQ21C-2-AC : G9L120491-6RX Exp: DIOXIN

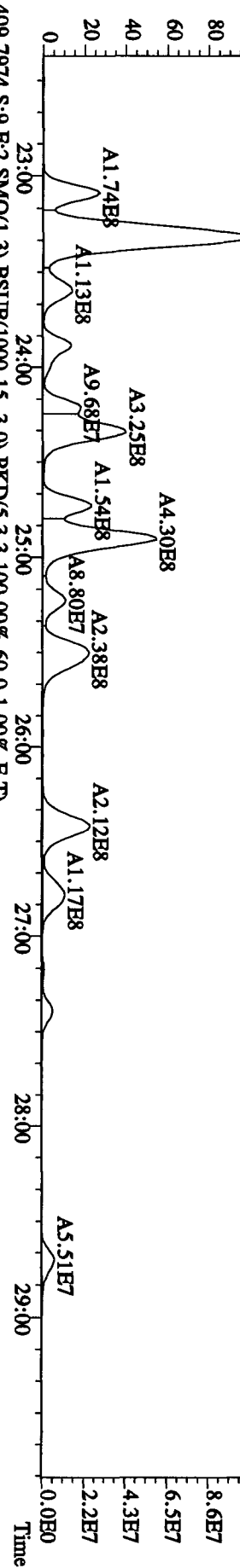
342.9792 S:9 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



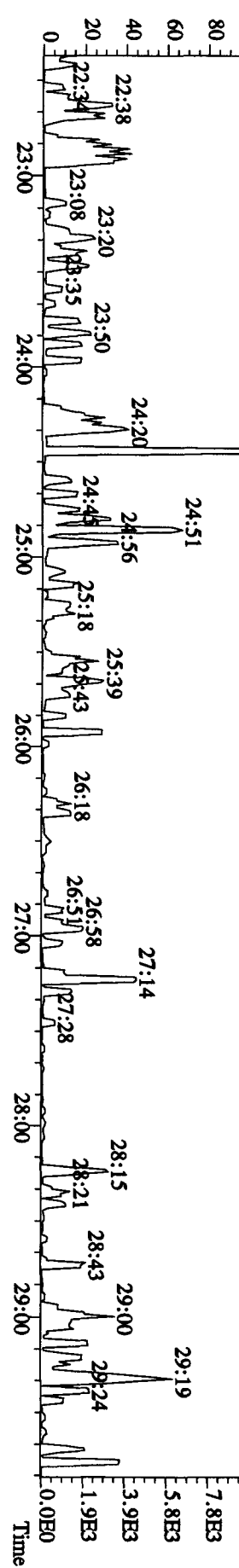
339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,82132.0,1.00%,F,T)



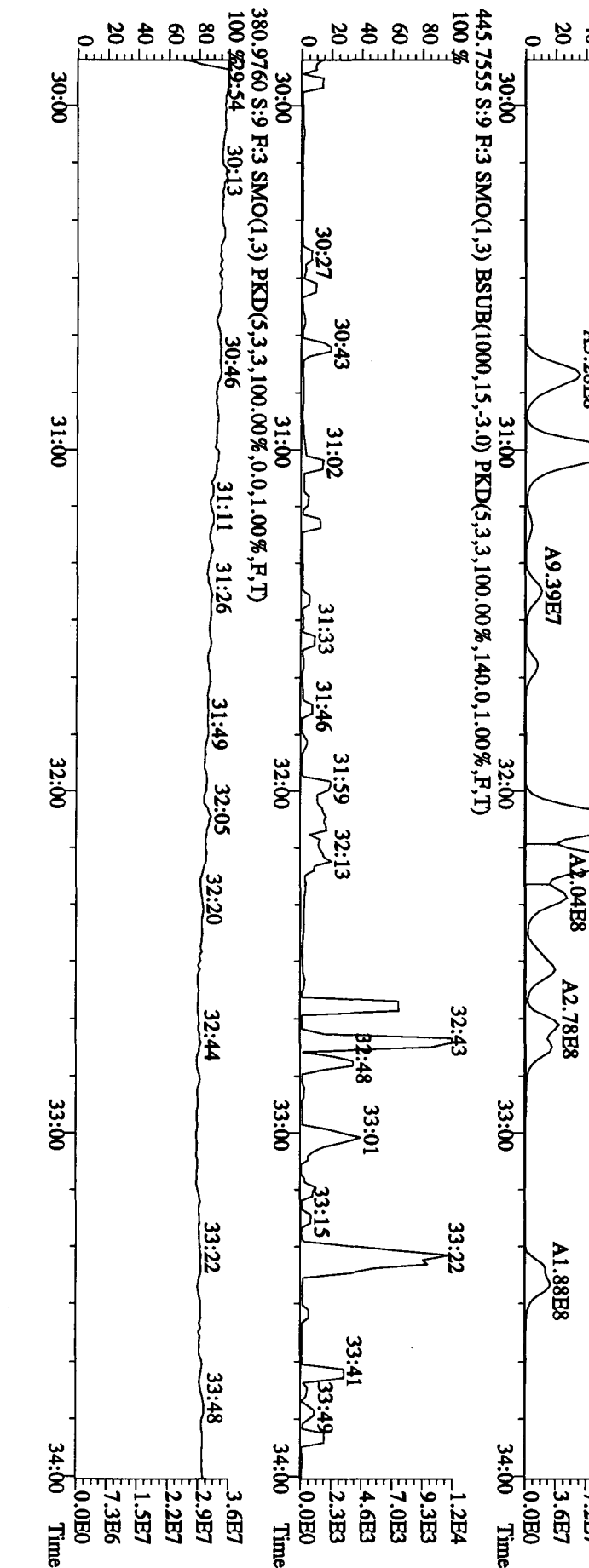
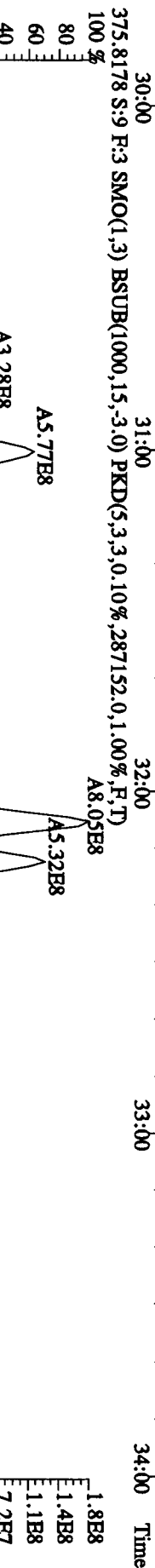
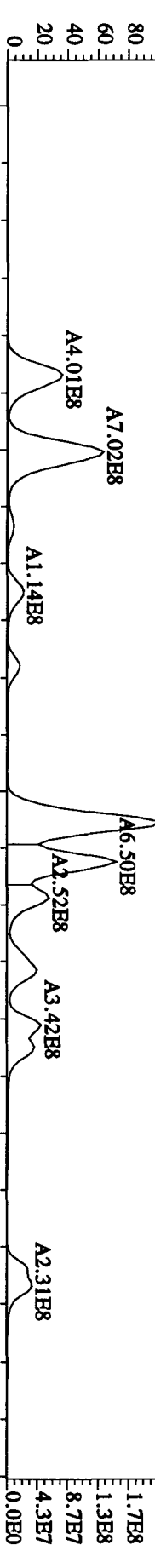
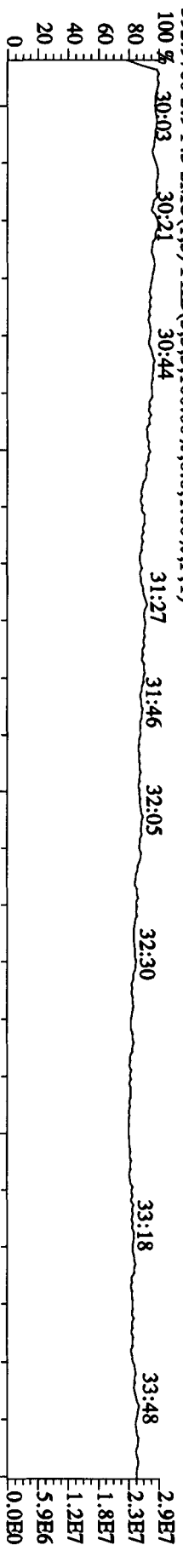
341.8567 S:9 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,89884.0,1.00%,F,T)



409.7974 S:9 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,60.0,1.00%,F,T)

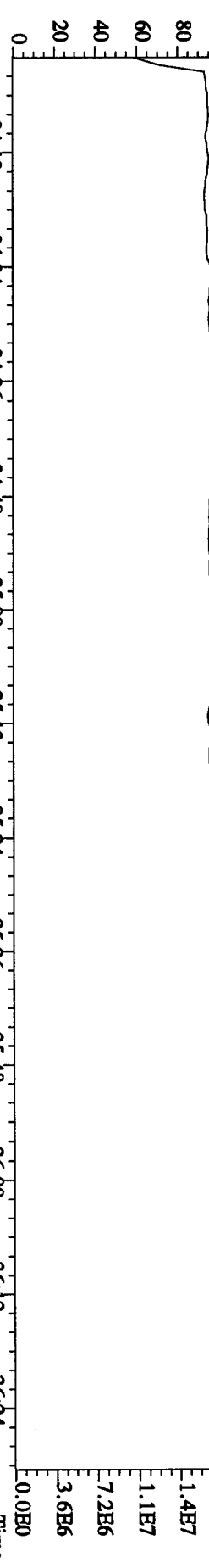


File:23DBE094D5 #1-314 Acq:23-DEC-2009 14:38:00 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#9 Text:LQ2LC-2-AC :G9L120491-6RX Exp:DIOXIN
 392.9760 S:9 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

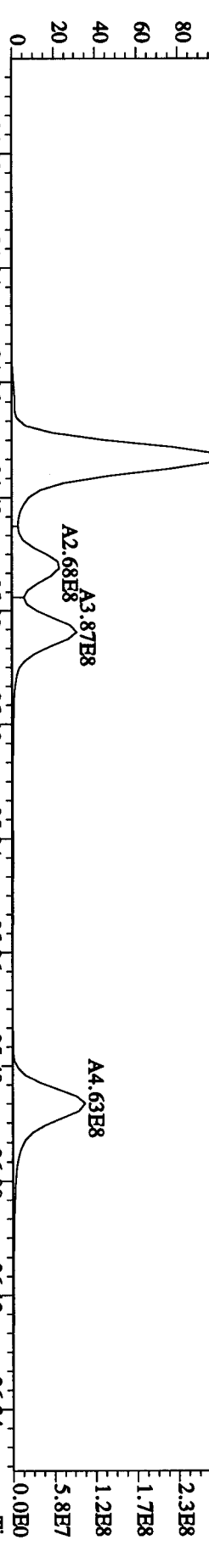


Sample#9 Text:LO2LC-2-AC :G9L120491-6RX Exp:DIOXIN

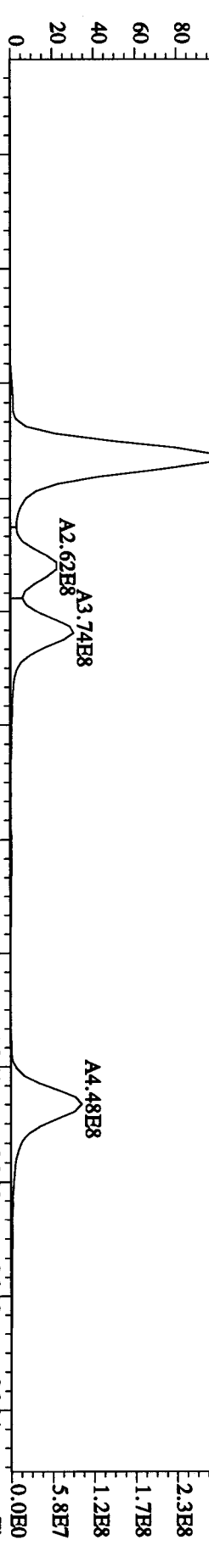
430.9728 S:9 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



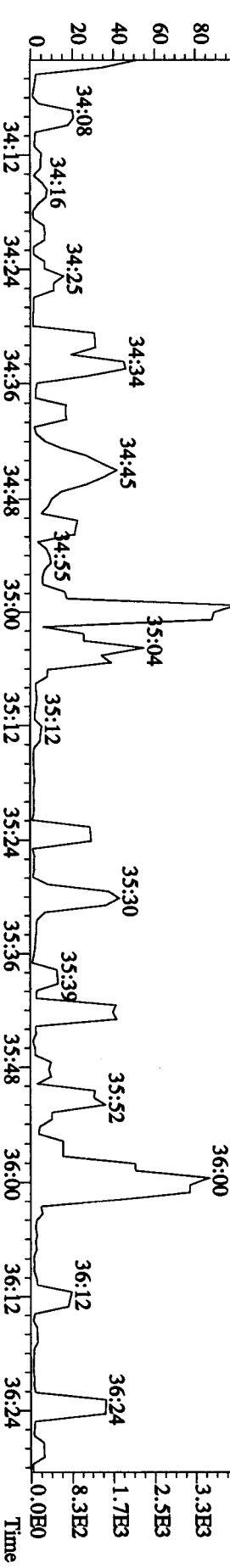
407.7818 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.55512,0,1.00%,F,T)



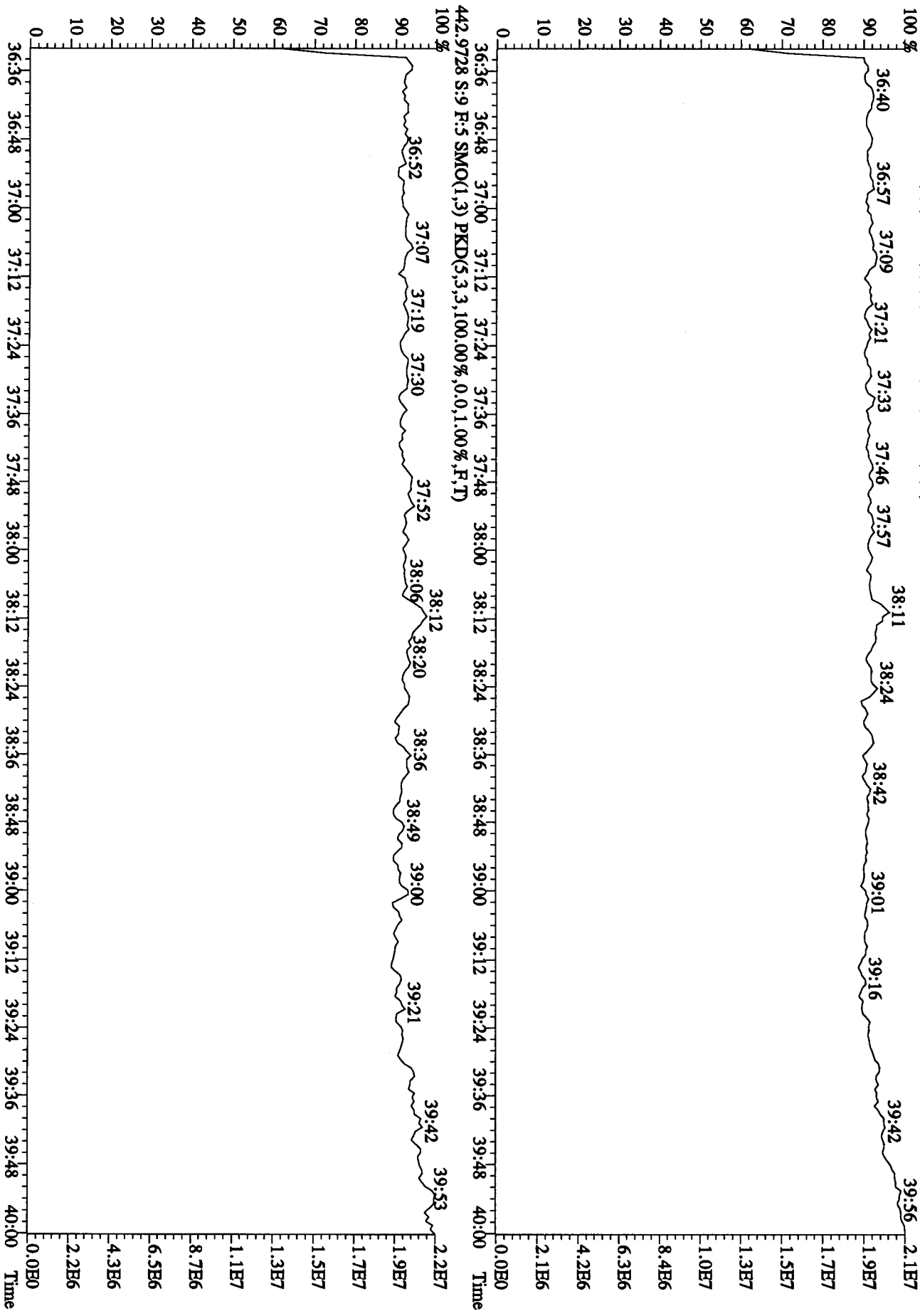
409.7789 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.80396,0,1.00%,F,T)



479.7165 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,100.0,1.00%,F,T)



File:23DBE094D5 #1-281 Acq:23-DEC-2009 14:38:00 GC EI + Voltage SIR Autospec-UltimaB
 Sample#9 Text:LQ2LC-2-AC :G9L120491-6RX Exp:DIOXIN
 454.9728 S:9 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



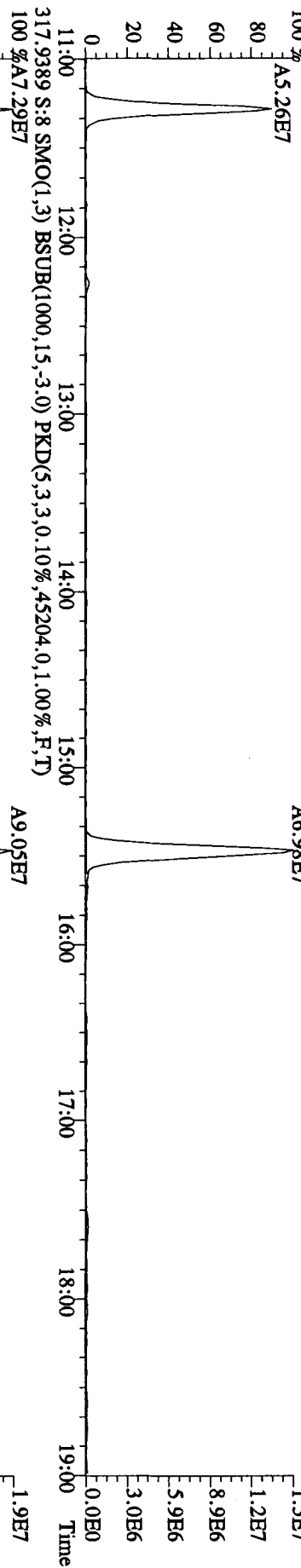
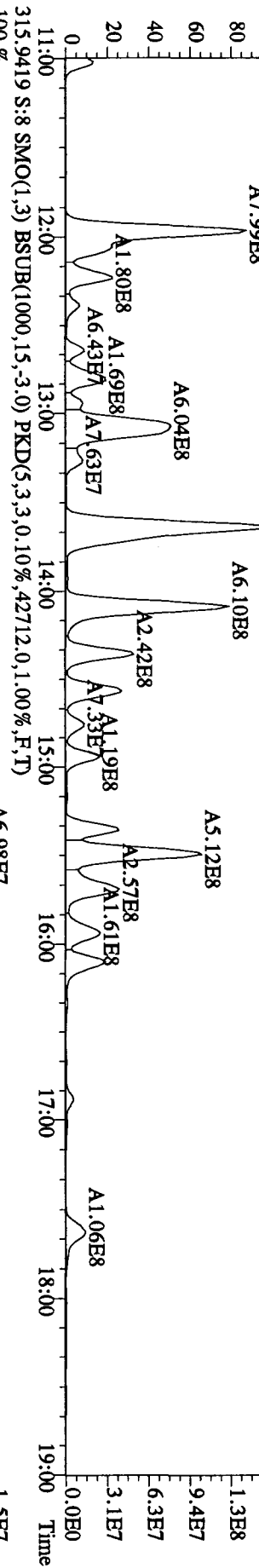
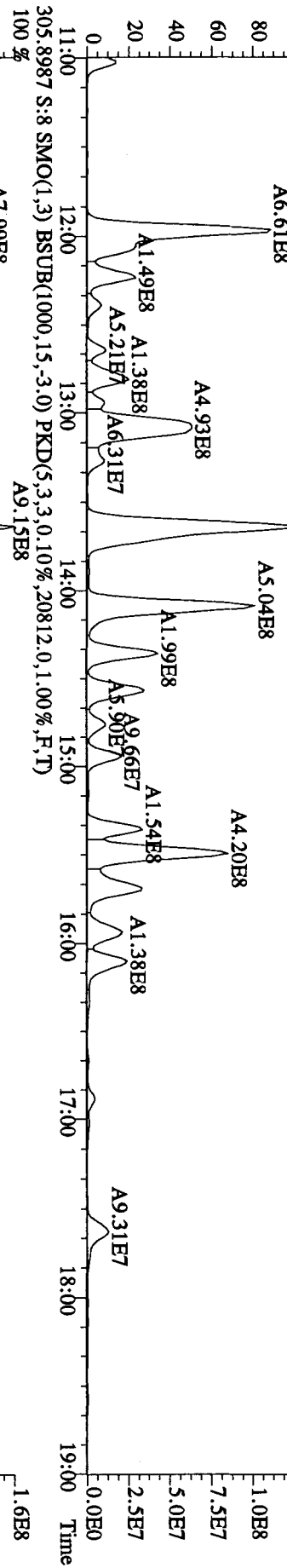
Run text: LQ2LC-2-AC Sample text: LQ2LC-2-AC :G9L120491-6RX
 Run #11 Filename: 23DE09A5D2 S: 8 I: 1 Results: 23DE09A5D2DB225
 Acquired: 24-DEC-09 03:20:21 Processed: 24-DEC-09 05:52:27
 Run: 23DE09A5D2 Analyte: DB225 Cal: DB2251021095D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.1800g

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	68706900	0.82 y	14:22	-	4.44	-	-	n
13C-2,3,7,8-TCDF	160315800	0.77 y	15:28	1.98	232.05	1.75	118.1	n
2,3,7,8-TCDF	931891000	0.82 y	15:30	1.18	967.96 E	0.59 G	-	n
13C-2,3,7,8-TCDD	94929800	0.78 y	14:08	0.97	279.58	2.02	142.3	n
2,3,7,8-TCDD	48576500	0.77 y	14:10	1.51	66.75	1.26	-	n
37Cl-2,3,7,8-TCDD	116049000	1.00 y	14:09	2.70	122.70	0.80	156.1	n

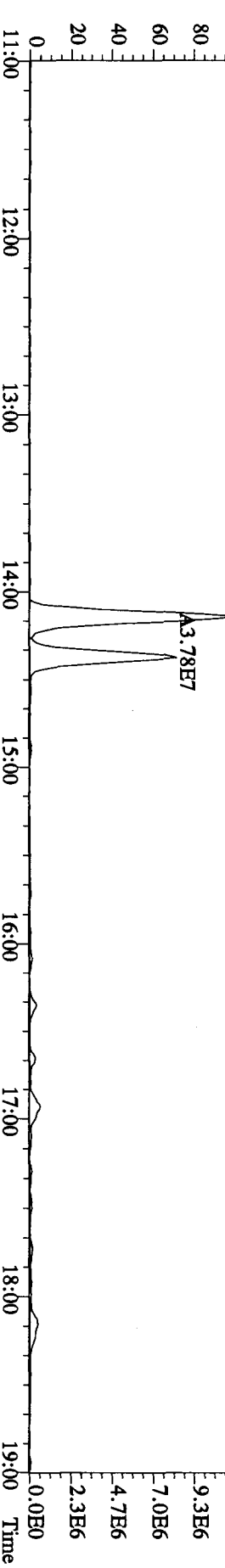
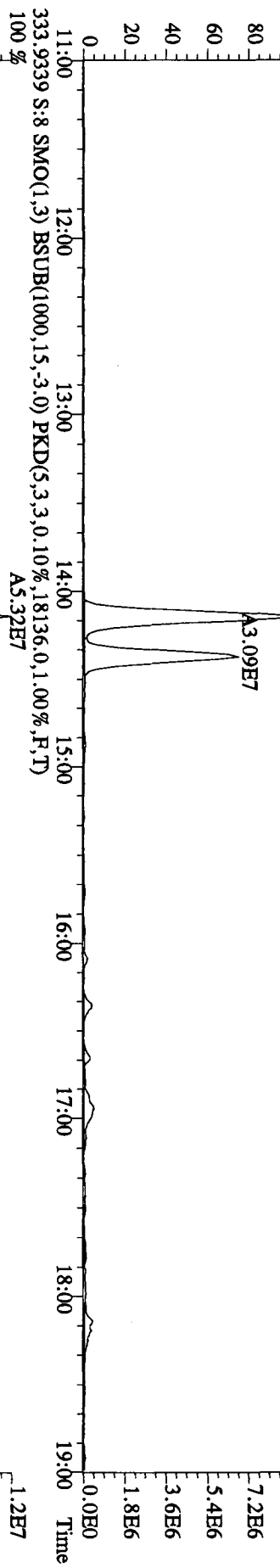
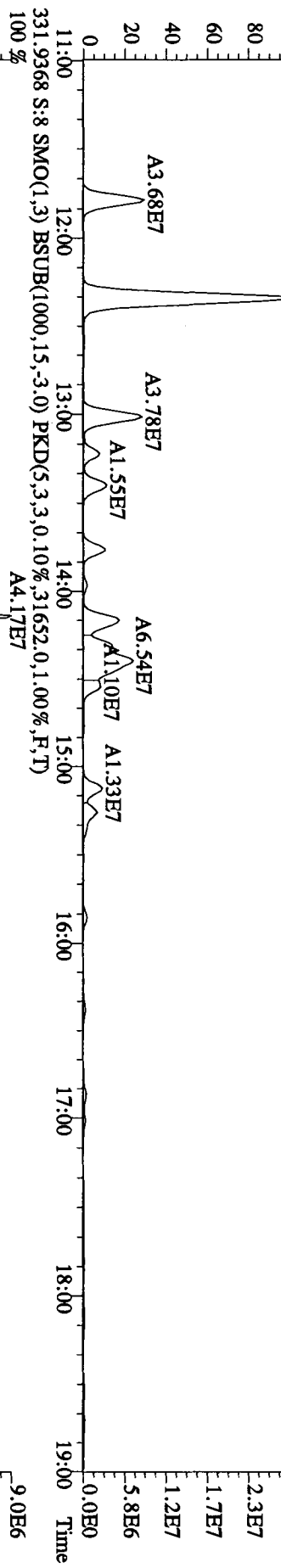
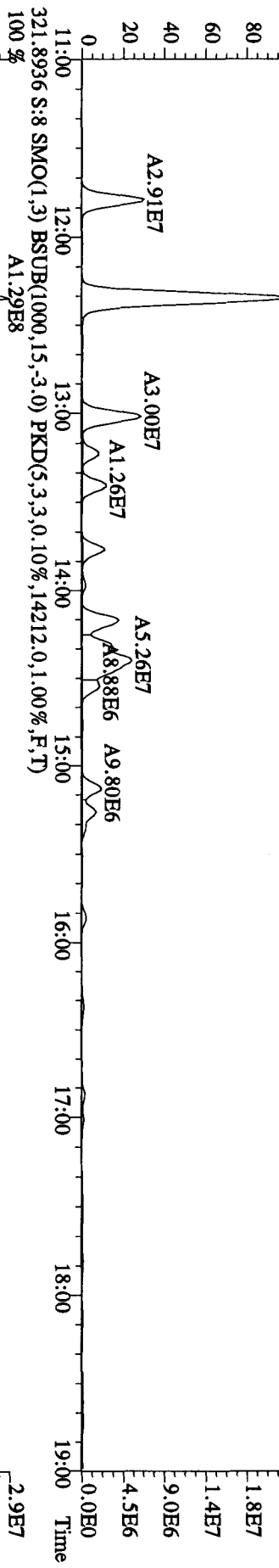
05
12-28-09

File: 23DE09A5D2 #1-1242 Acq: 24-DEC-2009 03:20:21 GC EI+ Voltage SIR 70SE
Sample#8 Text: LQ2LTC-2-AC :G9L120491-6RX Exp: DB225

305.8987 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,20812.0,1.00%,F,T)
100% A7.99E8



File:23DDE09A5D2 #1-1242 Acq:24-DEC-2009 03:20:21 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ2LC-2-AC :G9L120491-6RX Exp:DB225
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.52036,0,1.00%,F,T)
 100 % A1.02E8



2.3E7

1.8E7

1.4E7

9.0E6

4.5E6

0.0E0

Time

19:00

2.9E7

2.3E7

1.7E7

1.2E7

5.8E6

0.0E0

Time

19:00

9.0E6

7.2E6

5.4E6

3.6E6

1.8E6

0.0E0

Time

19:00

1.2E7

9.3E6

7.0E6

4.7E6

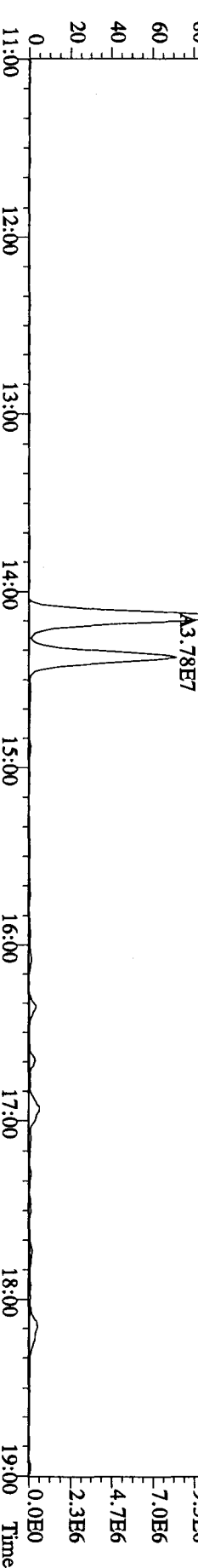
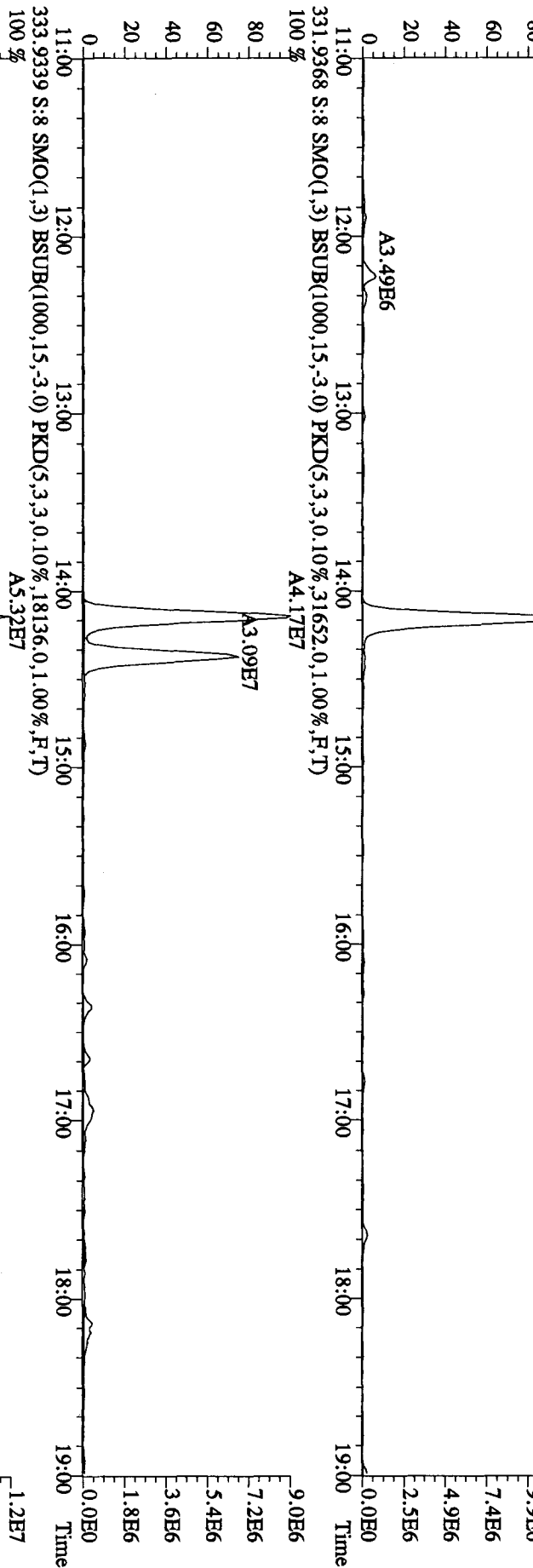
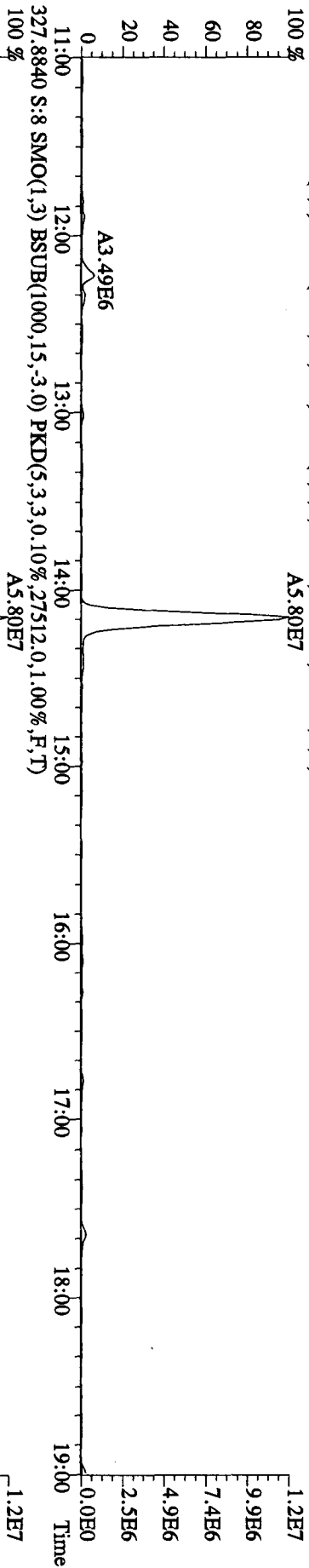
2.3E6

0.0E0

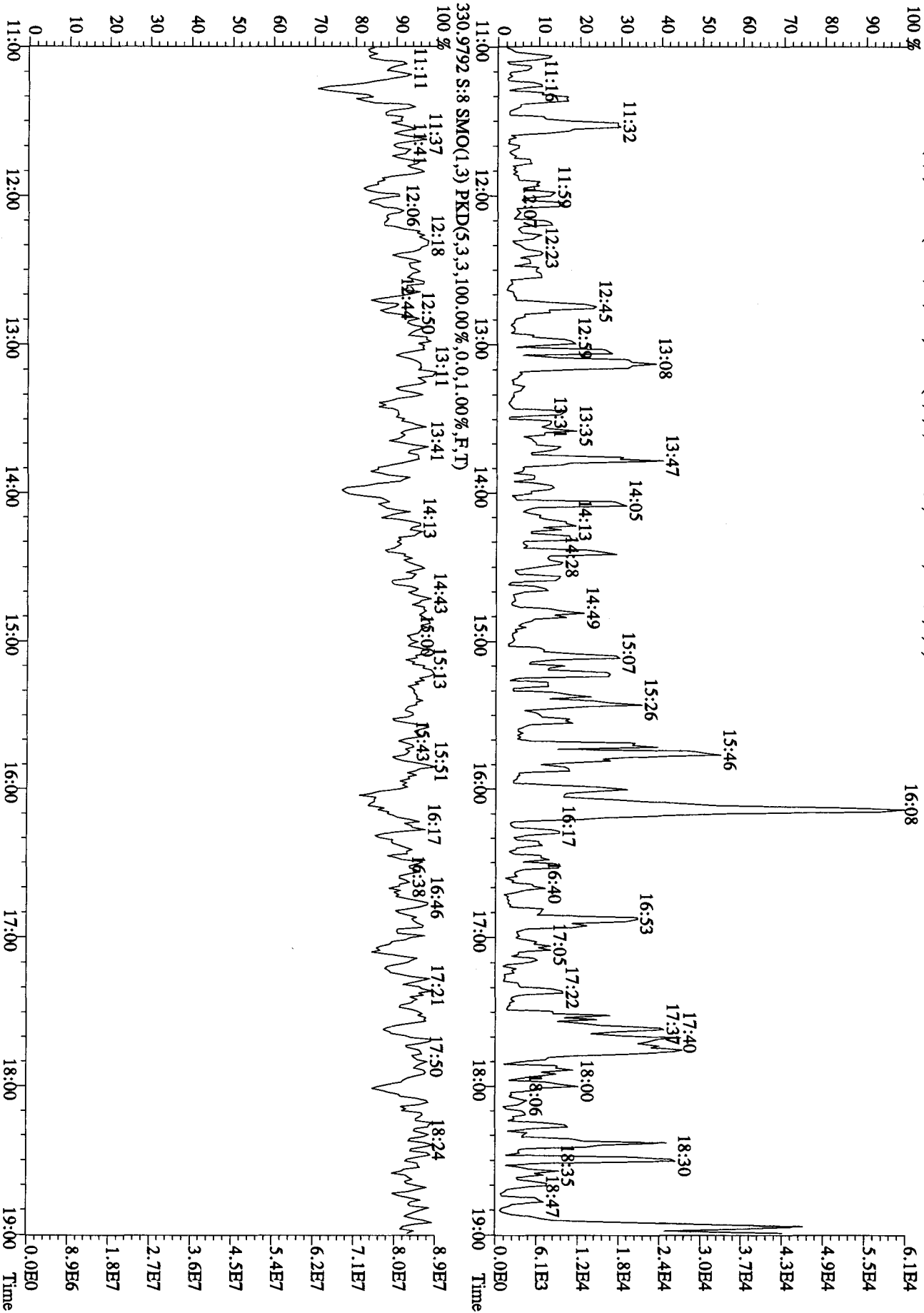
Time

19:00

File:23DE09A5D2 #1-1242 Acq:24-DEC-2009 03:20:21 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ2LC-2-AC :G9L120491-6RX Exp:DB225
 327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27512.0,1.00%,F,T)
 100% A5.80E7



File:23DE09A5D2 #1-1242 Acq:24-DEC-2009 03:20:21 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LO2LIC-2-AC :G9L120491-6RX Exp:DB225
 375.8364 S:8 SMO(1,3) BSUB(1000,15,-3:0) PKD(5,3,3,100.00%,3108,0,1.00%,F,T)



Run text: LQ2LD-3-AC Sample text: LQ2LD-3-AC :G9L120491-7RX
 Run #11 Filename: 04JA10A1D5 S: 7 I: 1 Results: 04ja10a1d58290
 Acquired: 4-JAN-10 18:33:37 Processed: 5-JAN-10 07:51:39
 Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.10 g

AK 1/2/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	101080500	0.81 y	18:43	-	3.21	-	-	n
13C-2,3,7,8-TCDF	133521000	0.75 y	18:09	1.57	83.51	0.17	42.2	n
2,3,7,8-TCDF	2091599	0.73 y	18:11	0.86	3.61 <i>see pg 25</i>	0.26	-	n
Total TCDF	12235233	0.80 y	15:33	0.86	21.10	0.26	-	n
13C-2,3,7,8-TCDD	94673300	0.75 y	18:55	0.99	93.36	0.56	47.1	n
2,3,7,8-TCDD	*	* n	NotFnd	0.93	*	0.30	-	n
Total TCDD	885475	0.74 y	16:32	0.93	1.98	0.30	-	n
37Cl-2,3,7,8-TCDD	113298600	1.00 y	18:56	2.22	50.03	0.08	63.2	n
13C-1,2,3,7,8-PeCDF	91699900	1.64 y	23:34	1.07	83.72	0.13	42.3	n
1,2,3,7,8-PeCDF	1406848	1.56 y	23:35	1.00	✓ 3.04	0.54	-	n
2,3,4,7,8-PeCDF	646634	1.88 n	25:00	0.94	1.49 <i>5Q</i>	0.57	-	n
Total F2 PeCDF	9432815	1.85 n	21:55	0.97	20.96	0.55	-	n
Total F1 PeCDF	1239202	0.42 n	16:04	0.97	2.76	0.26	-	n
13C-1,2,3,7,8-PeCDD	60176900	1.63 y	25:46	0.67	88.46	0.21	44.7	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.93	*	0.55	-	n
Total PeCDD	670558	1.45 y	22:20	0.93	2.37	0.55	-	n
13C-1,2,3,7,8,9-HxCDD	73611400	1.31 y	32:52	-	2.66	-	-	n
13C-1,2,3,4,7,8-HxCDF	58196000	0.55 y	31:28	0.89	87.67	0.27	44.3	n
1,2,3,4,7,8-HxCDF	2213650	1.19 y	31:29	1.20	✓ 6.28	0.53	-	y
1,2,3,6,7,8-HxCDF	1613700	1.17 y	31:37	1.37	✓ 4.00	0.46	-	n
2,3,4,6,7,8-HxCDF	380050	1.13 y	32:19	1.24	1.04 <i>5</i>	0.51	-	y
1,2,3,7,8,9-HxCDF	255503	1.15 y	33:04	1.33	0.66 <i>✓</i>	0.48	-	y
Total HxCDF	9815354	1.26 y	29:38	1.28	26.16	0.50	-	y
13C-1,2,3,6,7,8-HxCDD	53558300	1.31 y	32:33	0.73	98.40	0.21	49.7	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	0.97	*	0.54	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.06	*	0.49	-	n
1,2,3,7,8,9-HxCDD	56705	0.45 n	32:53	1.28	0.16	0.41	-	n
Total HxCDD	474027	1.19 y	31:32	1.10	1.57	0.47	-	n
13C-1,2,3,4,6,7,8-HpCDF	35085600	0.41 y	34:36	0.86	54.87	0.94	27.7	n
1,2,3,4,6,7,8-HpCDF	3854740	1.03 y	34:37	1.29	✓ 16.91	0.86	-	n
1,2,3,4,7,8,9-HpCDF	1562586	1.08 y	35:55	1.14	✓ 7.77	0.98	-	n
Total HpCDF	7597147	1.03 y	34:37	1.21	34.84	0.92	-	n
13C-1,2,3,4,6,7,8-HpCDD	30485200	1.07 y	35:33	0.75	54.51	0.45	27.5	n
1,2,3,4,6,7,8-HpCDD	235114	1.44 n	35:33	1.00	1.53 <i>5Q</i>	0.86	-	n
Total HpCDD	359113	0.92 y	34:54	1.00	2.34	0.86	-	n
13C-OCDD	27845900	0.91 y	38:20	0.56	66.36	0.85	16.8	n

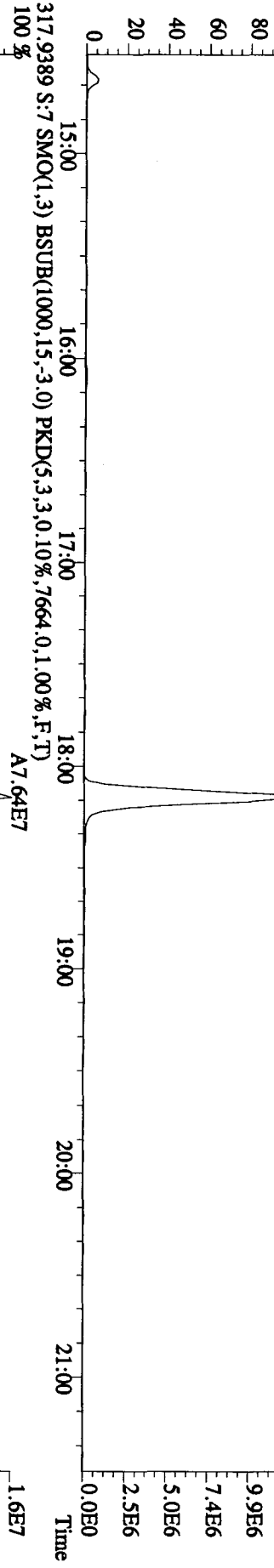
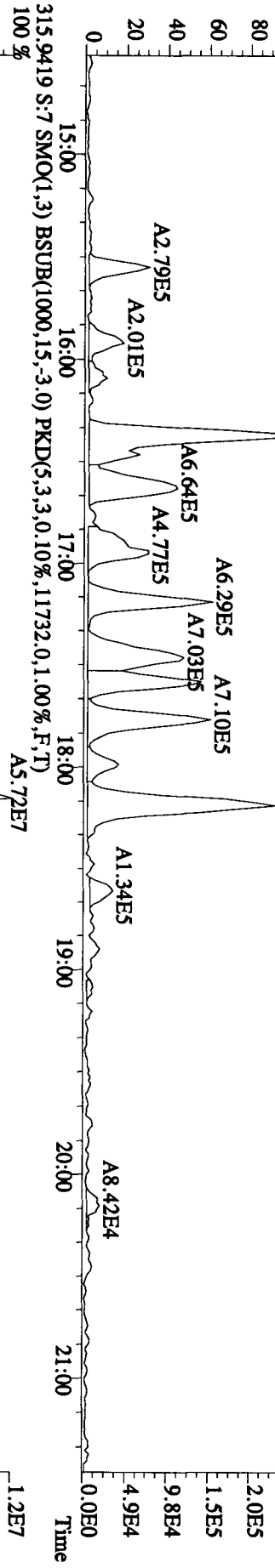
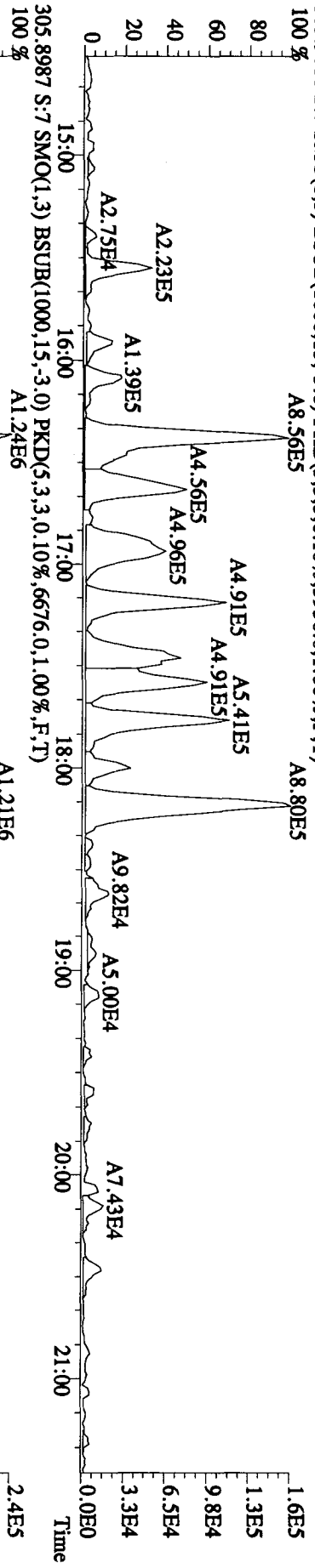
OCDF	5284560	0.94	y	38:27	1.44	✓ 52.29	2.58	-	n
OCDD	211820	1.06	n	38:21	1.11	2.72 SQ	1.77	-	n

Run text: LQ2LD-3-AC Sample text: LQ2LD-3-AC :G9L120491-7RX
 Run #11 Filename: 04JA10A1D5 S: 7 I: 1 Results: 04JA10A1D58290
 Acquired: 4-JAN-10 18:33:37 Processed: 5-JAN-10 07:51:39
 Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.1000µg

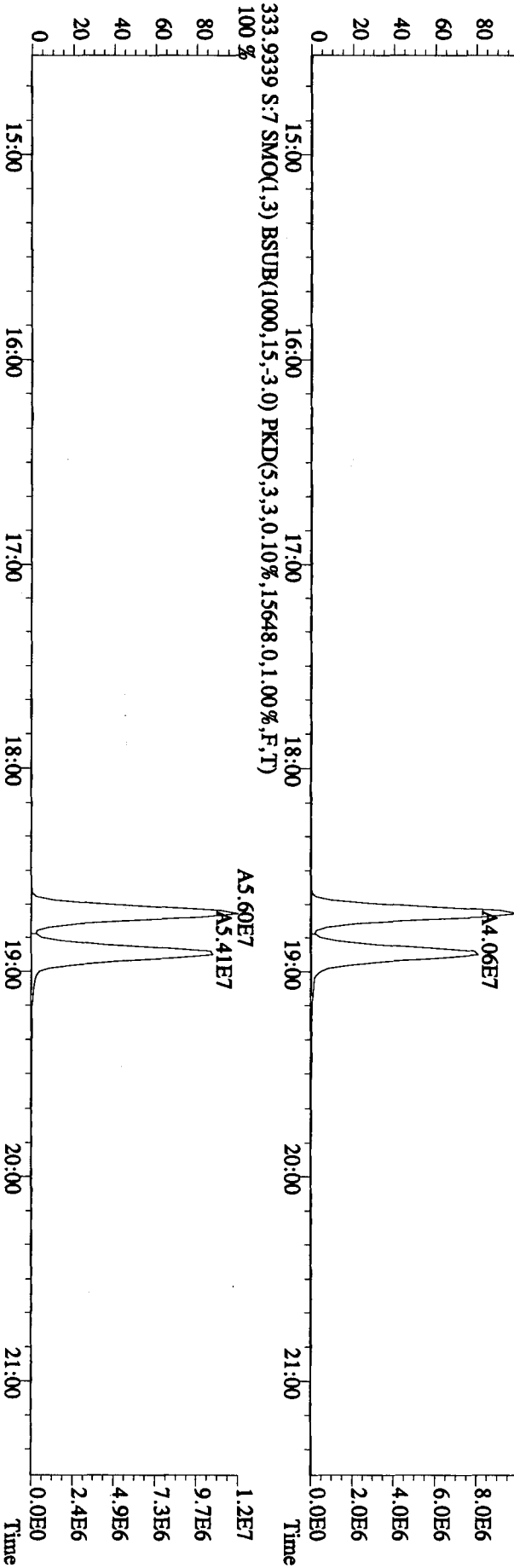
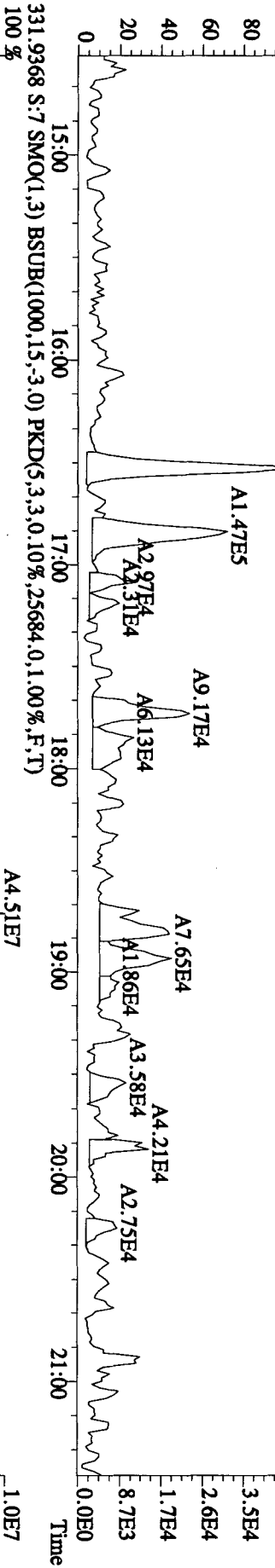
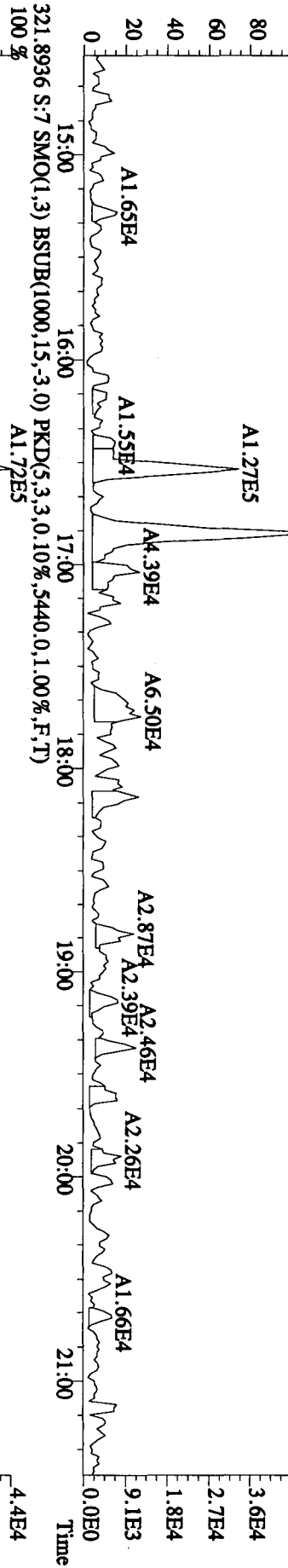
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	101080500	0.81 y	18:43	-	3.21	-	-	n
13C-2,3,7,8-TCDF	133521000	0.75 y	18:09	1.57	83.51	0.17	42.2	n
2,3,7,8-TCDF	2091599	0.73 y	18:11	0.86	3.61	0.26	-	n
Total TCDF	12235233	0.80 y	15:33	0.86	21.10	0.26	-	n
13C-2,3,7,8-TCDD	94673300	0.75 y	18:55	0.99	93.36	0.56	47.1	n
2,3,7,8-TCDD	*	* n	NotFnd	0.93	*	0.30	-	n
Total TCDD	885475	0.74 y	16:32	0.93	1.98	0.30	-	n
37Cl-2,3,7,8-TCDD	113298600	1.00 y	18:56	2.22	50.03	0.08	63.2	n
13C-1,2,3,7,8-PeCDF	91699900	1.64 y	23:34	1.07	83.72	0.13	42.3	n
1,2,3,7,8-PeCDF	1406848	1.56 y	23:35	1.00	3.04	0.54	-	n
2,3,4,7,8-PeCDF	646634	1.88 n	25:00	0.94	1.49	0.57	-	n
Total F2 PeCDF	9432815	1.85 n	21:55	0.97	20.96	0.55	-	n
Total F1 PeCDF	1239202	0.42 n	16:04	0.97	2.76	0.46	-	n
13C-1,2,3,7,8-PeCDD	60176900	1.63 y	25:46	0.67	88.46	0.21	44.7	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.93	*	0.55	-	n
Total PeCDD	670558	1.45 y	22:20	0.93	2.37	0.55	-	n
13C-1,2,3,7,8,9-HxCDD	73611400	1.31 y	32:52	-	2.66	-	-	n
13C-1,2,3,4,7,8-HxCDF	58196000	0.55 y	31:28	0.89	87.67	0.27	44.3	n
1,2,3,4,7,8-HxCDF	2523660	1.16 y	31:29	1.20	7.16	0.53	-	n
1,2,3,6,7,8-HxCDF	1613698	1.17 y	31:37	1.37	4.00	0.46	-	n
2,3,4,6,7,8-HxCDF	499482	2.30 n	32:13	1.24	1.37	0.51	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.33	*	0.48	-	n
Total HxCDF	10075547	1.26 y	29:38	1.28	26.94	0.50	-	n
13C-1,2,3,6,7,8-HxCDD	53558300	1.31 y	32:33	0.73	98.40	0.21	49.7	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	0.97	*	0.54	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.06	*	0.49	-	n
1,2,3,7,8,9-HxCDD	56705	0.45 n	32:53	1.28	0.16	0.41	-	n
Total HxCDD	474027	1.19 y	31:32	1.10	1.57	0.47	-	n
13C-1,2,3,4,6,7,8-HpCDF	35085600	0.41 y	34:36	0.86	54.87	0.94	27.7	n
1,2,3,4,6,7,8-HpCDF	3854740	1.03 y	34:37	1.29	16.91	0.86	-	n
1,2,3,4,7,8,9-HpCDF	1562586	1.08 y	35:55	1.14	7.77	0.98	-	n
Total HpCDF	7597147	1.03 y	34:37	1.21	34.84	0.92	-	n
13C-1,2,3,4,6,7,8-HpCDD	30485200	1.07 y	35:33	0.75	54.51	0.45	27.5	n
1,2,3,4,6,7,8-HpCDD	235114	1.44 n	35:33	1.00	1.53	0.86	-	n
Total HpCDD	359113	0.92 y	34:54	1.00	2.34	0.86	-	n
13C-OCDD	27845900	0.91 y	38:20	0.56	66.36	0.85	16.8	n
OCDF	5284560	0.94 y	38:27	1.44	52.29	2.58	-	n
OCDD	211820	1.06 n	38:21	1.11	2.72	1.77	-	n

Sample#7 Text:LQ2LD-3-AC :G9L120491-7RX

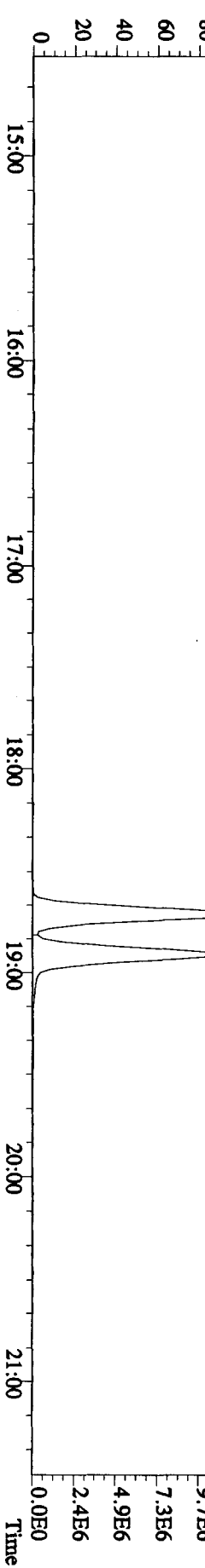
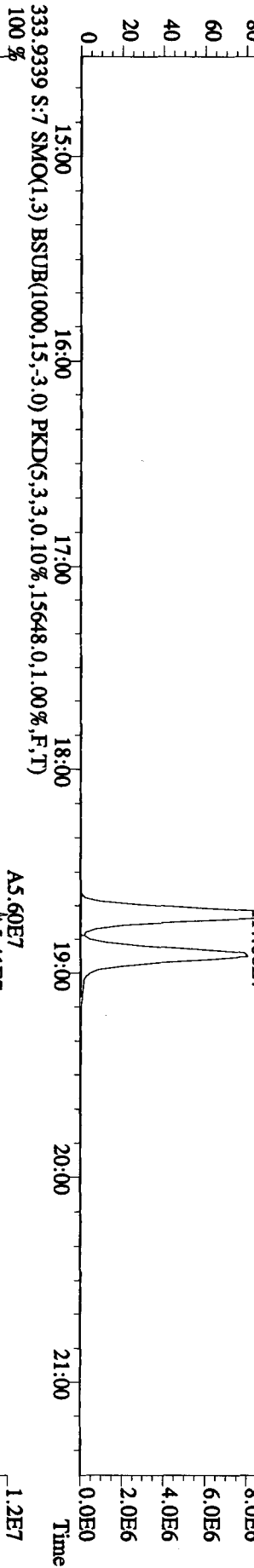
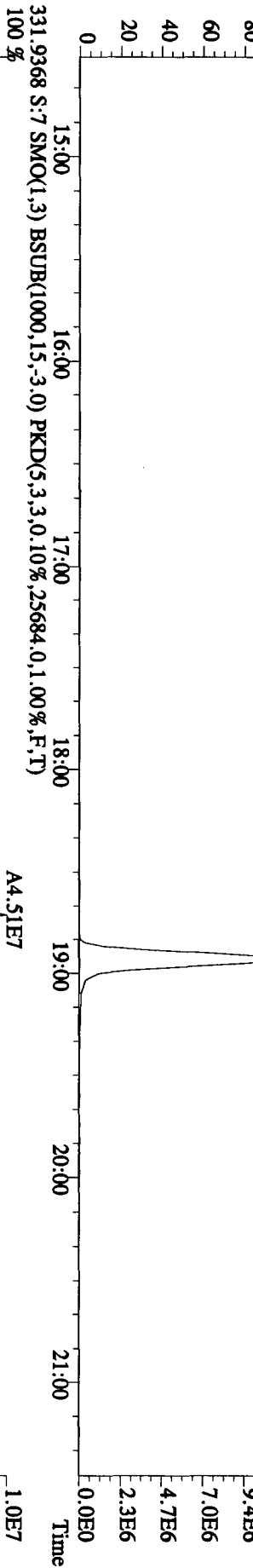
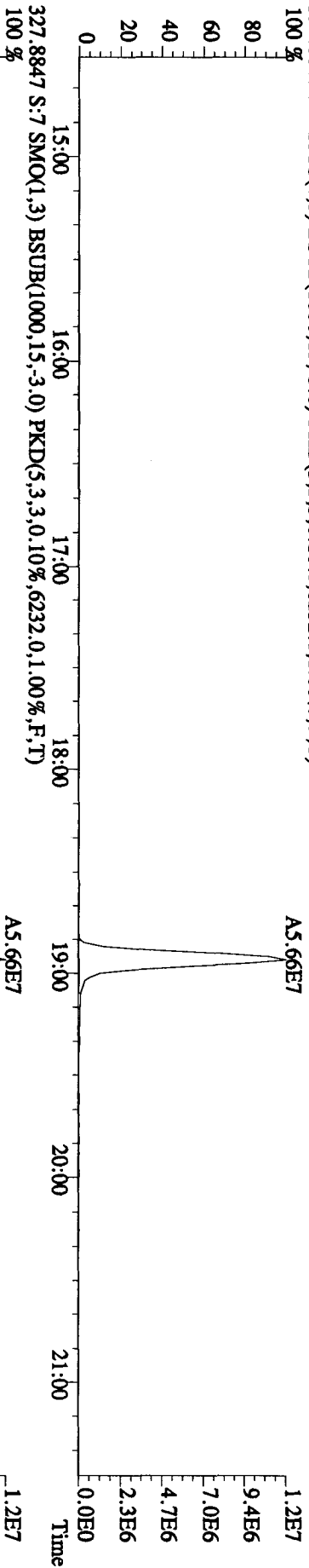
303.9016 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3956,0.1,00%,F,T)



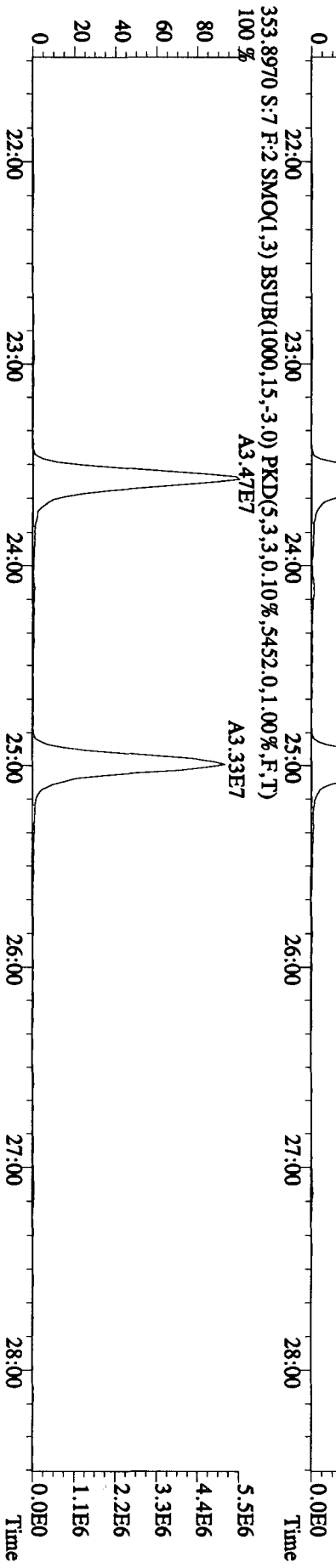
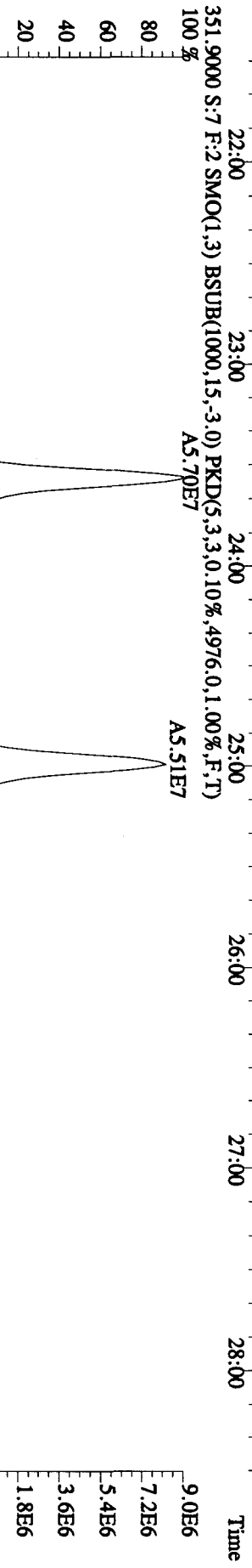
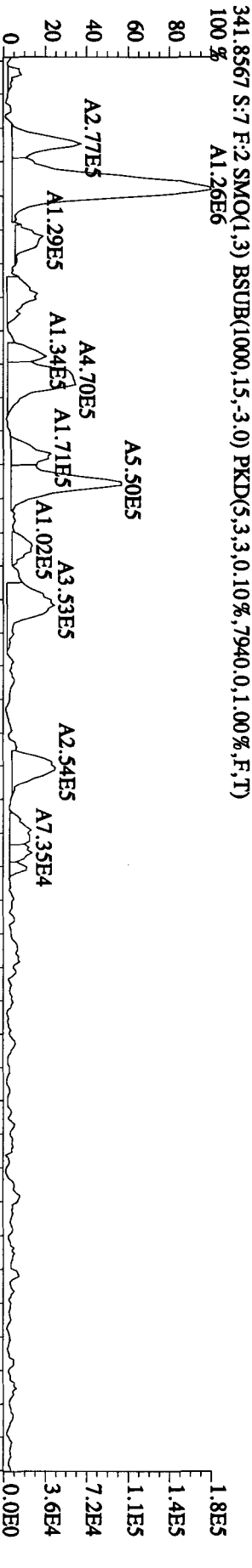
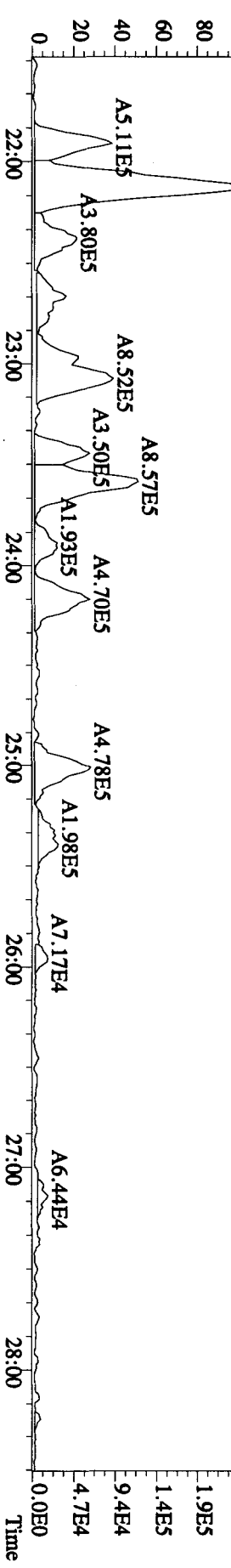
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 18:33:37 GC EI + Voltage SIR 70SE
 Sample#7 Text:LO2LD-3-AC :G9L120491-7RX Exp:DIOXIN
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3320,0,1,00%,F,T)
 100 % A2.05E5



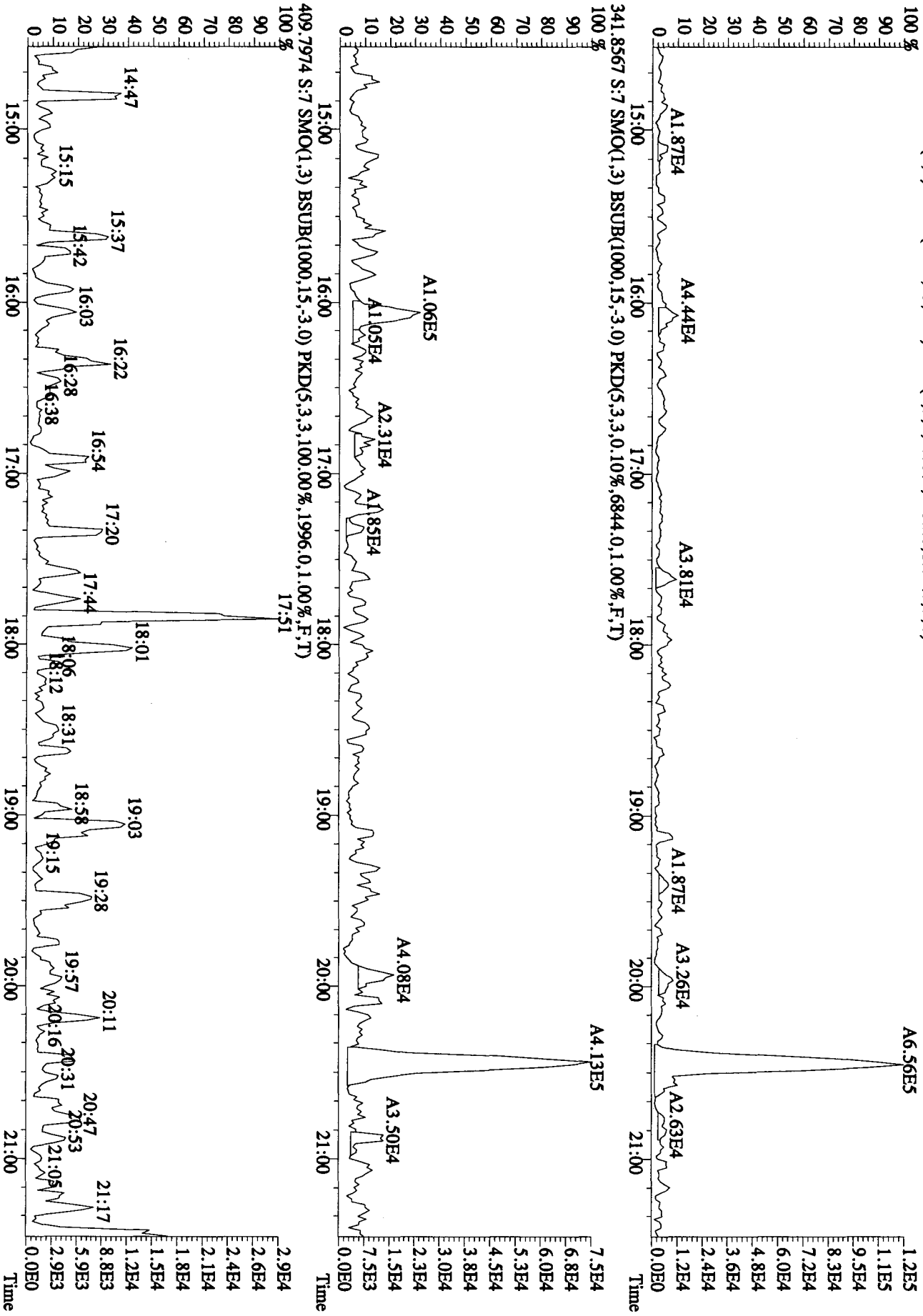
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 18:33:37 GC EI+ Voltage SIR 70SE
 Sample#7 Text:LQ2LD-3-AC :G9L120491-TRX Exp.:DIOXIN
 327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6232.0,1.00%,F,T)
 100 %



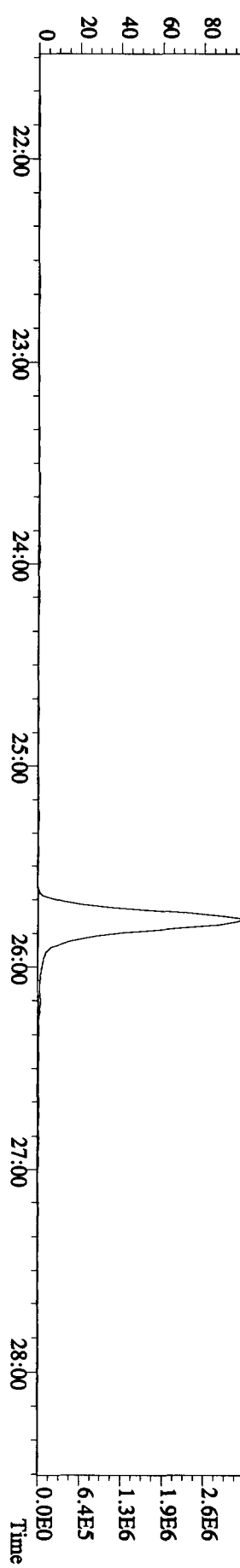
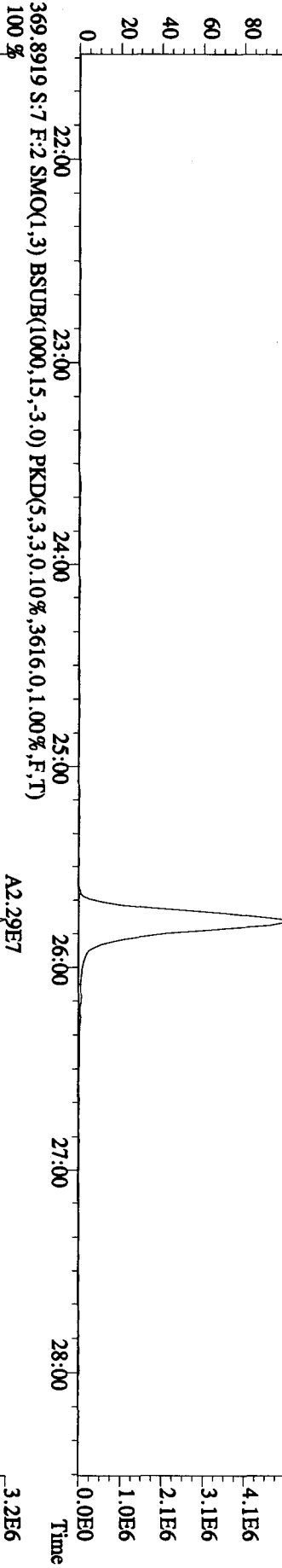
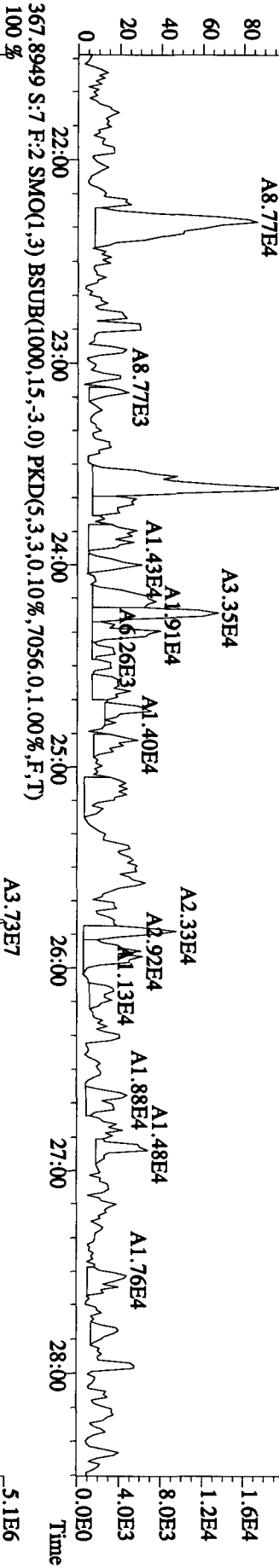
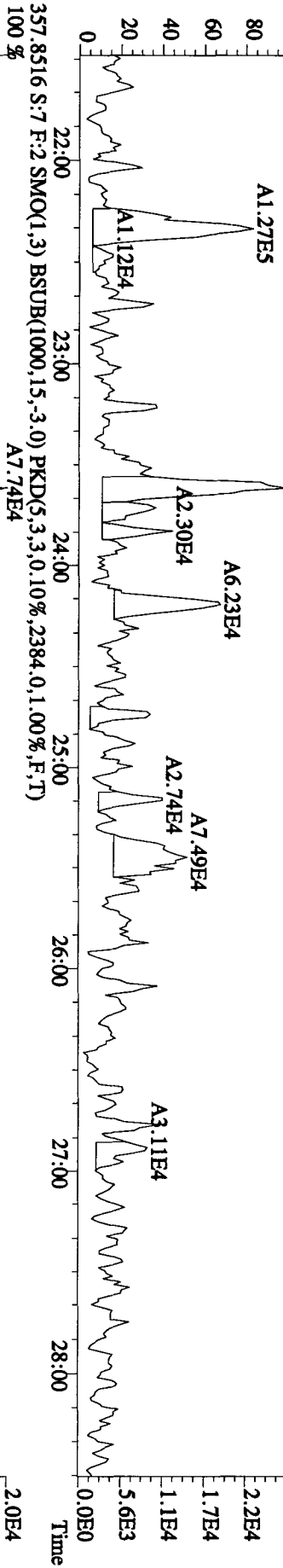
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5188,0,1,00%,F,T)



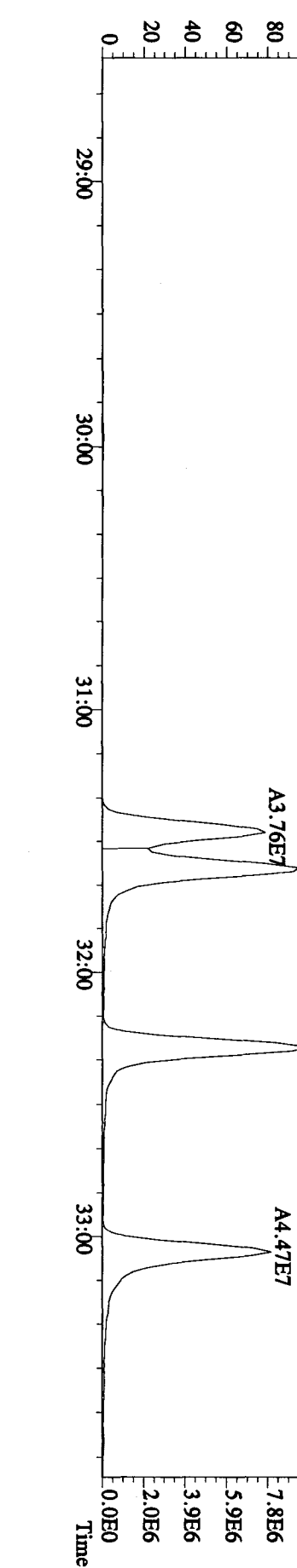
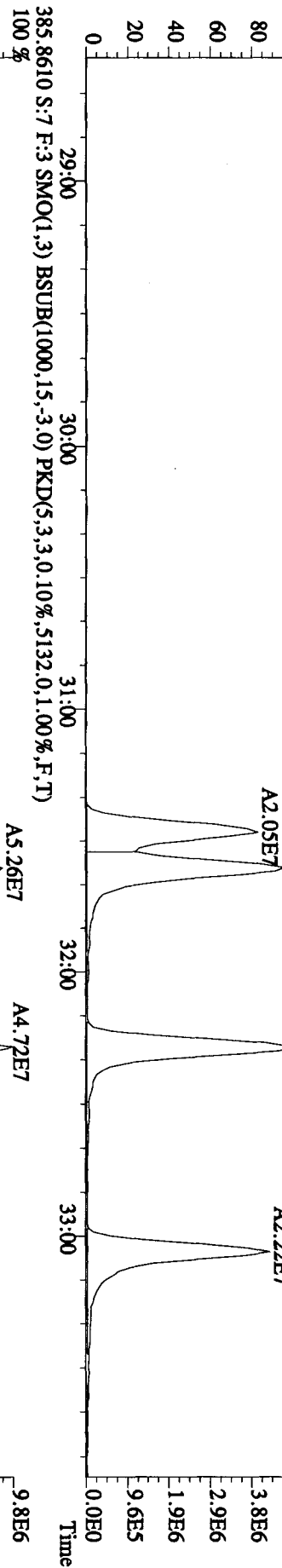
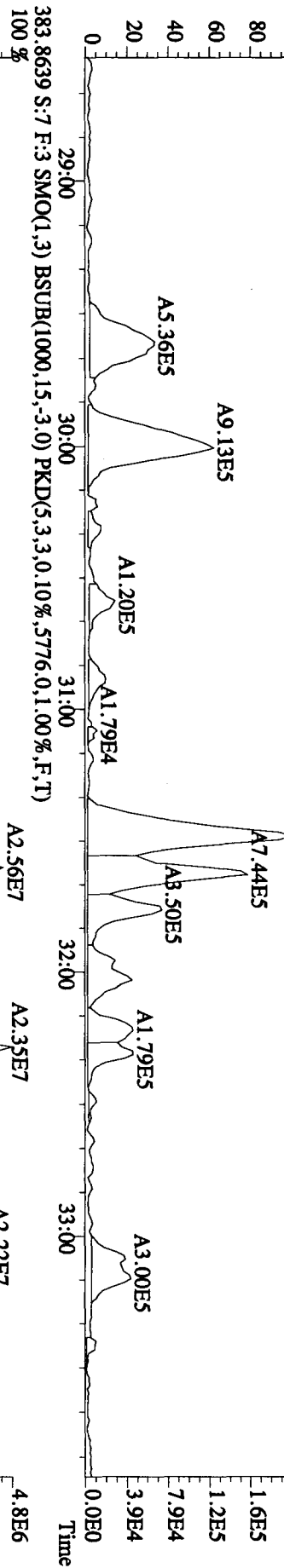
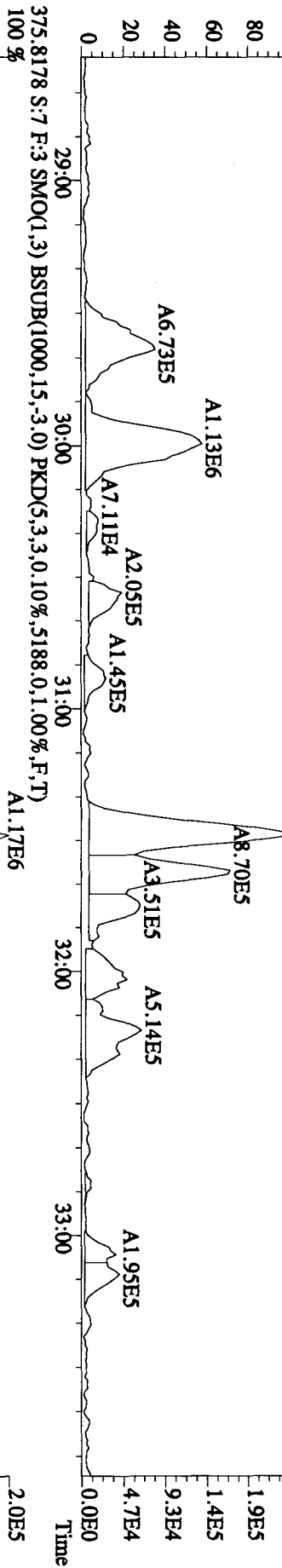
File:04J1A10A1D5 #1-411 Acq: 4-JAN-2010 18:33:37 GC EI+ Voltage SIR 70SE
 Sample#7 Text:LQ2LD-3-AC :G9L120491-7RX Exp:DIOXIN
 339.8597 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4132,0,1,00%,F,T)



File:04JA10A1D5 #1-495 Acq: 4-JAN-2010 18:33:37 GC EI + Voltage SIR 70SE
 Sample#7 Text:LO2LD-3-AC :G9L120491-7RX Exp:DIOXIN
 355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4792.0,1.00%,F,T)
 100 %



File:04JA10A1ID5 #1-362 Acq: 4-JAN-2010 18:33:37 GC EI+ Voltage SIR 70SE
 Sample#7 Text:LQ2LD-3-AC :G9L120491-7RX Exp:DIOXIN
 373.8178 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5188,0,1.00%,F,T)
 100 %



File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 18:33:37 GC EI+ Voltage SIR 70SE

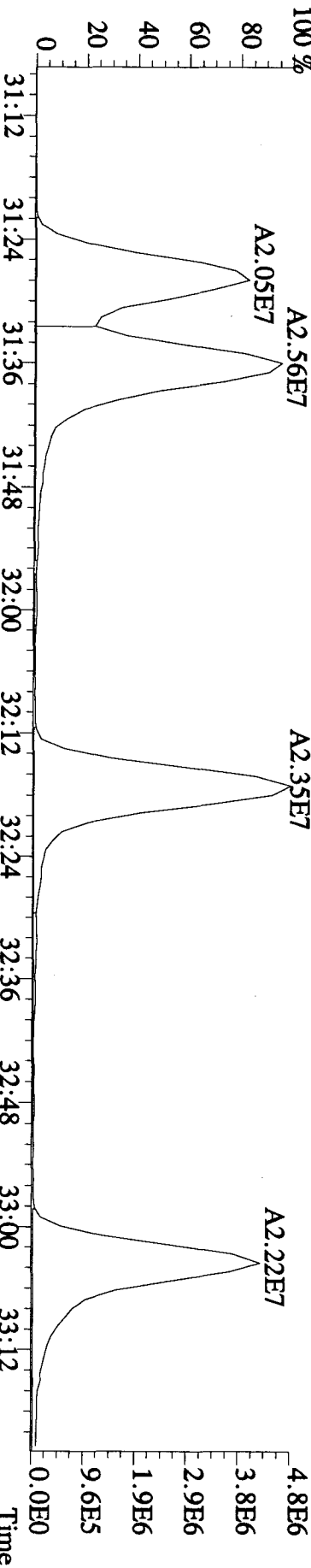
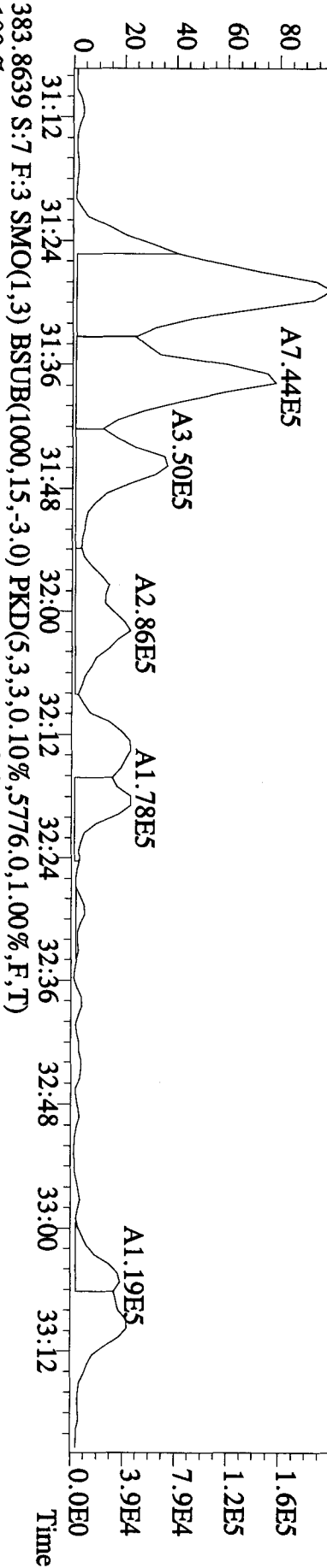
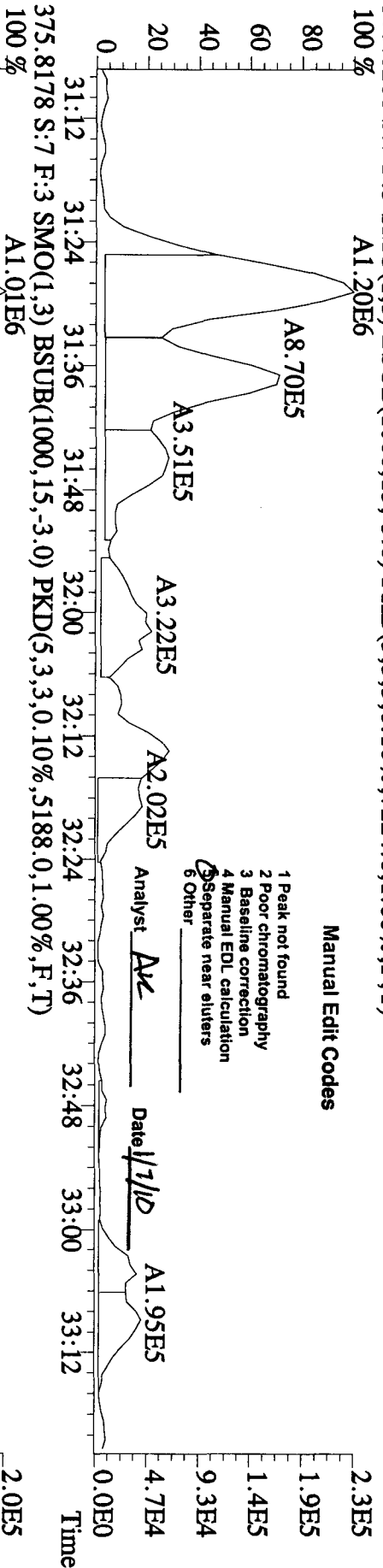
Sample#7 Text:LO2LD-3-AC :G9L120491-7R Exp:DIOXIN

373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7224.0,1.00%,F,T)

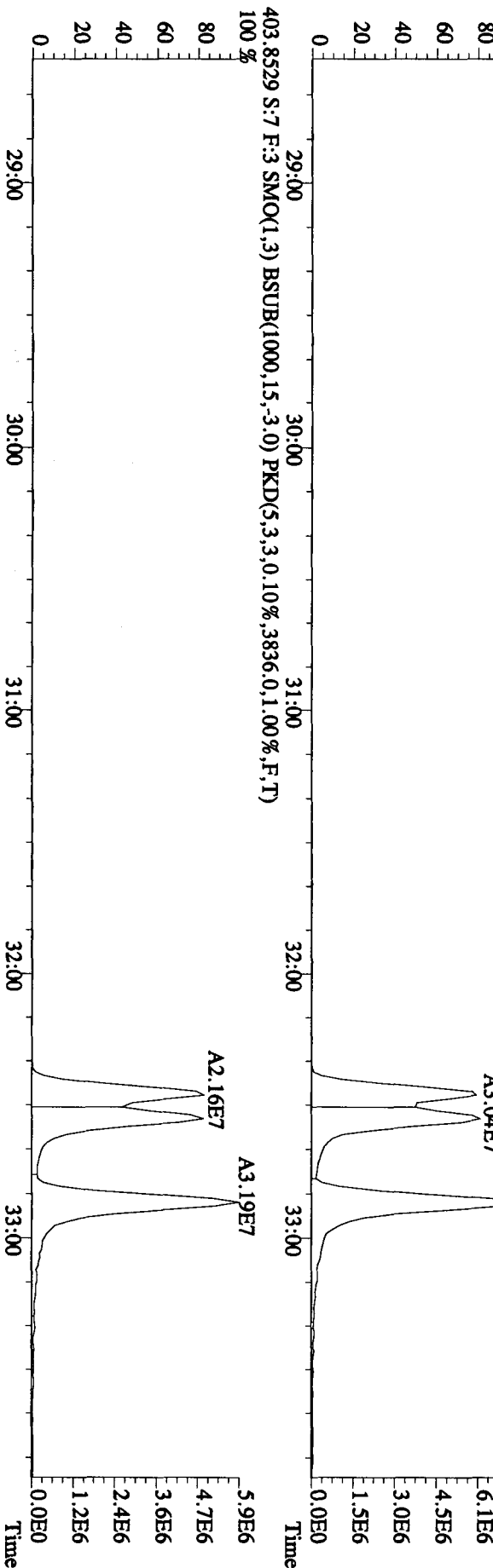
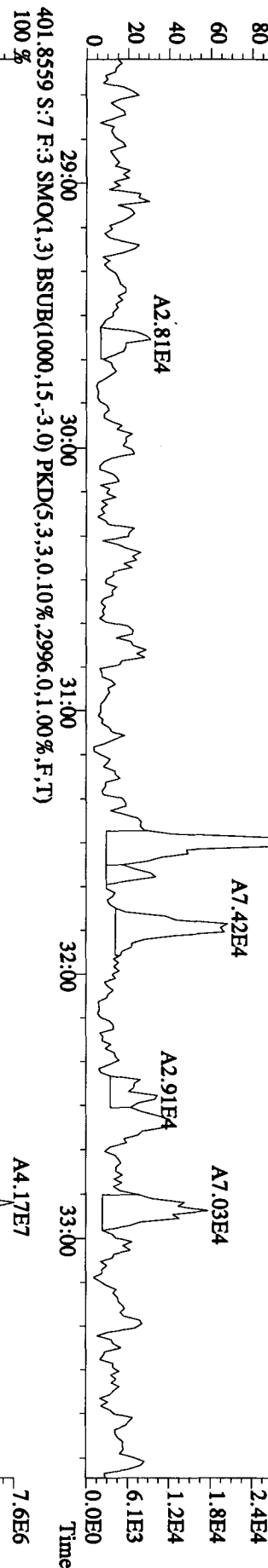
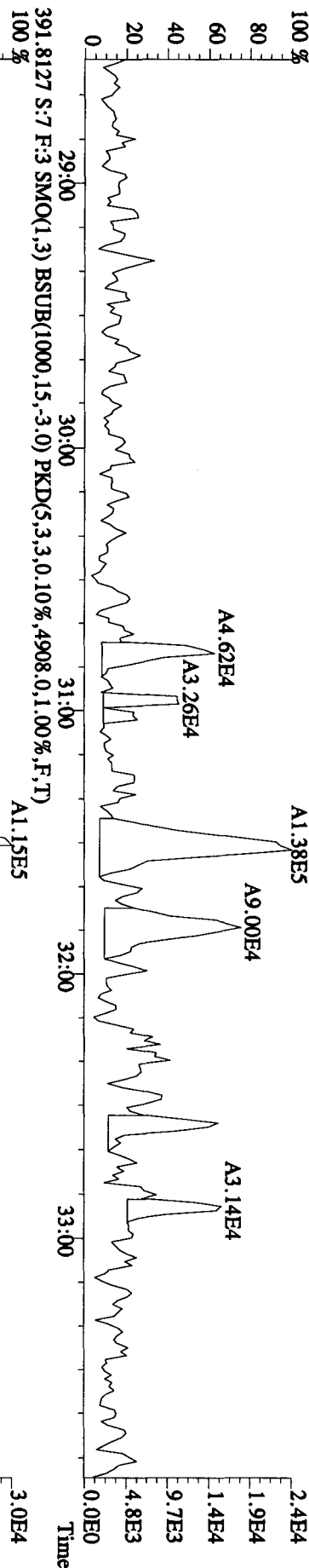
100% A1.20E6

Manual Edit Codes

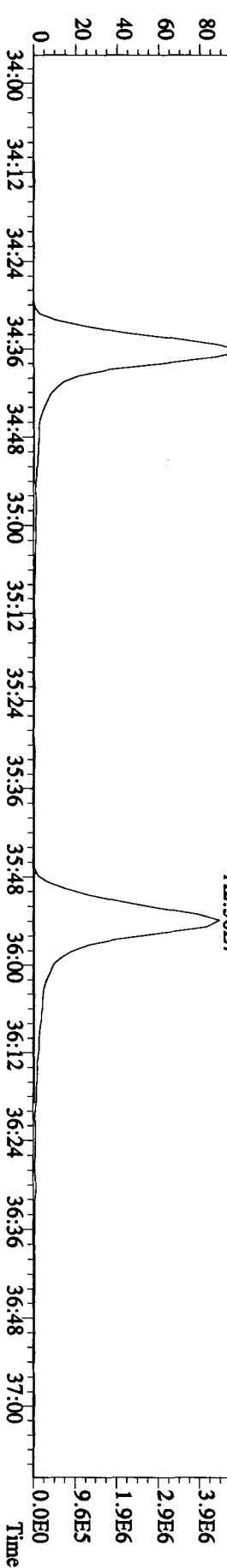
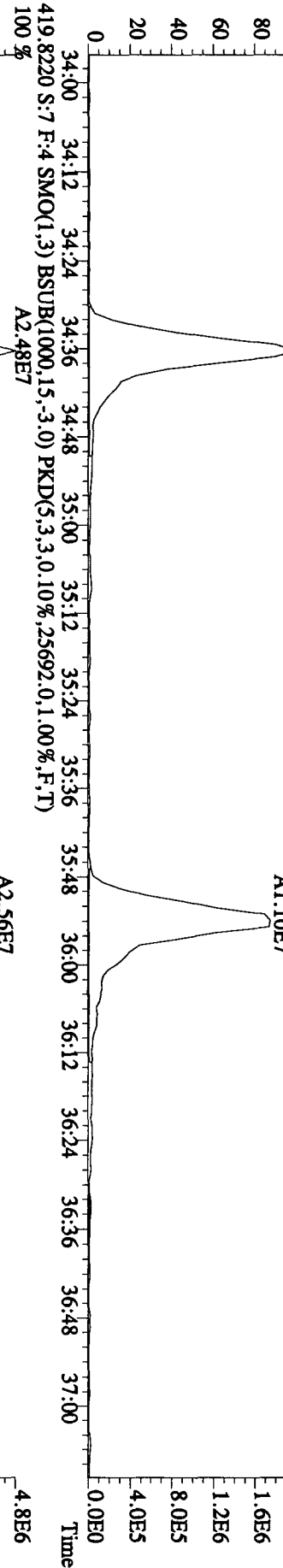
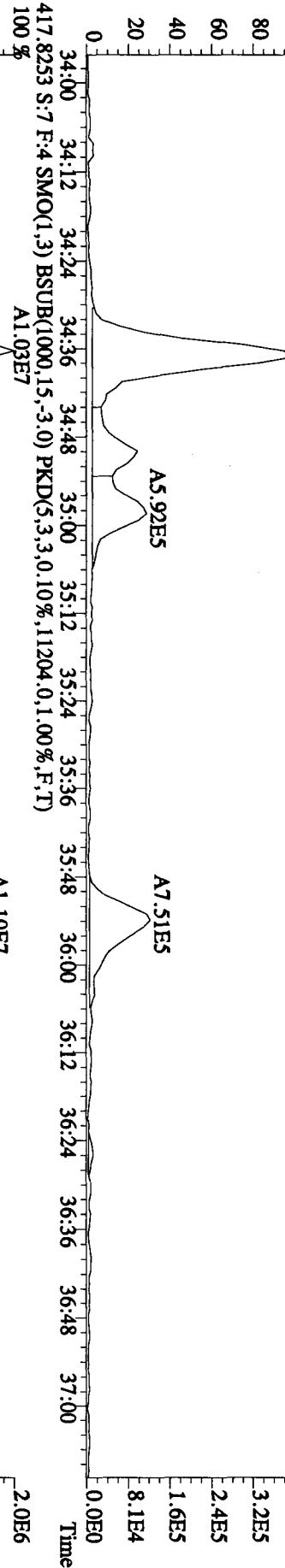
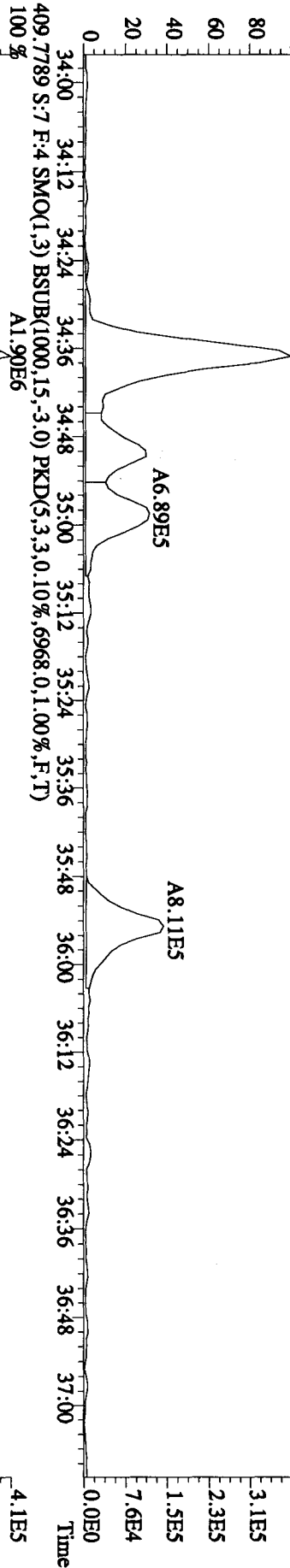
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other



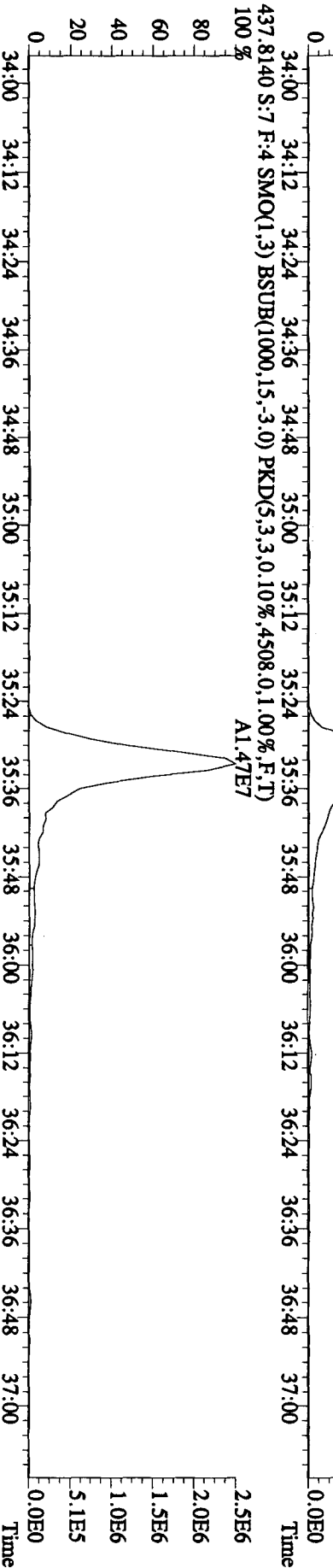
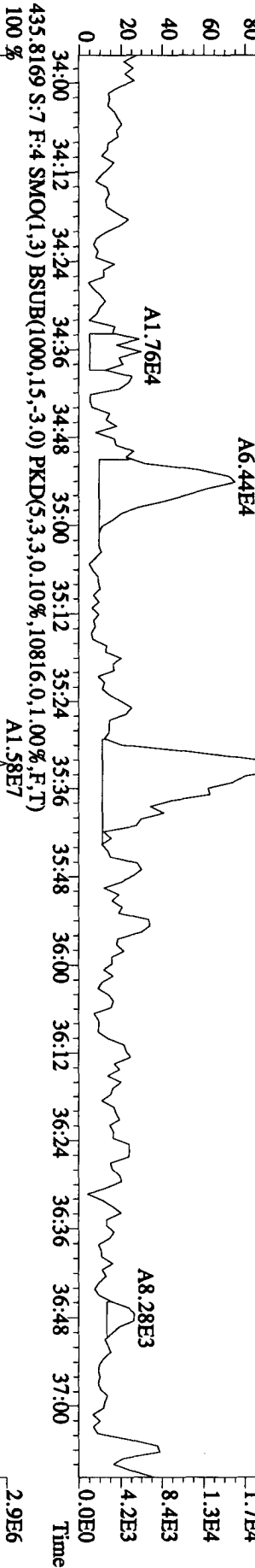
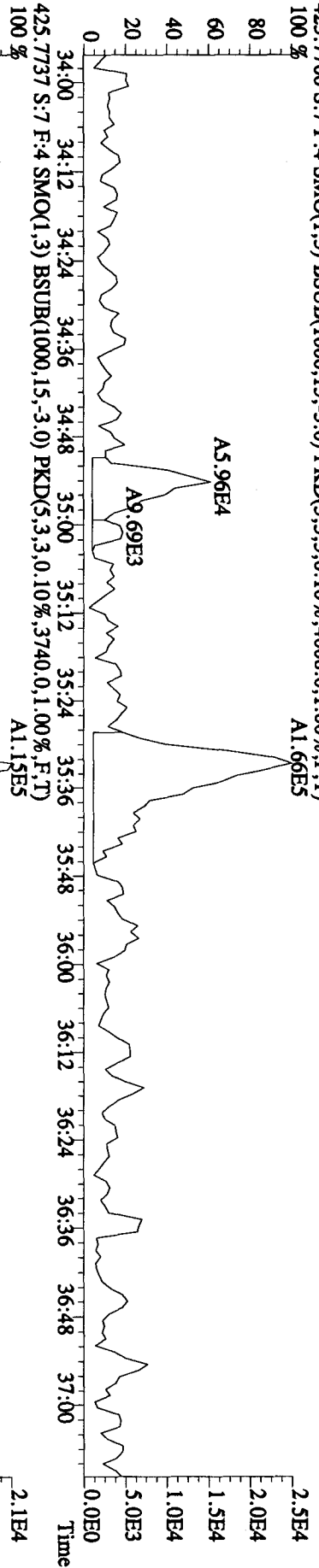
File:04JAI0A1D5 #1-362 Acq: 4-JAN-2010 18:33:37 GC EI+ Voltage SIR 70SE
 Sample#7 Text:LO2LD-3-AC :G9L120491-7RX Exp:DIOXIN
 389,8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4748,0,1.00%,F,T)



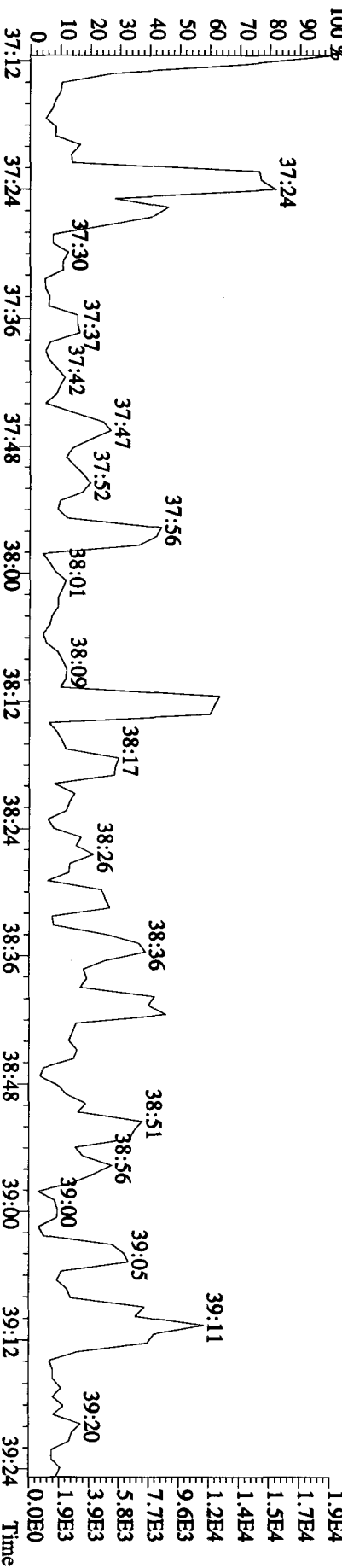
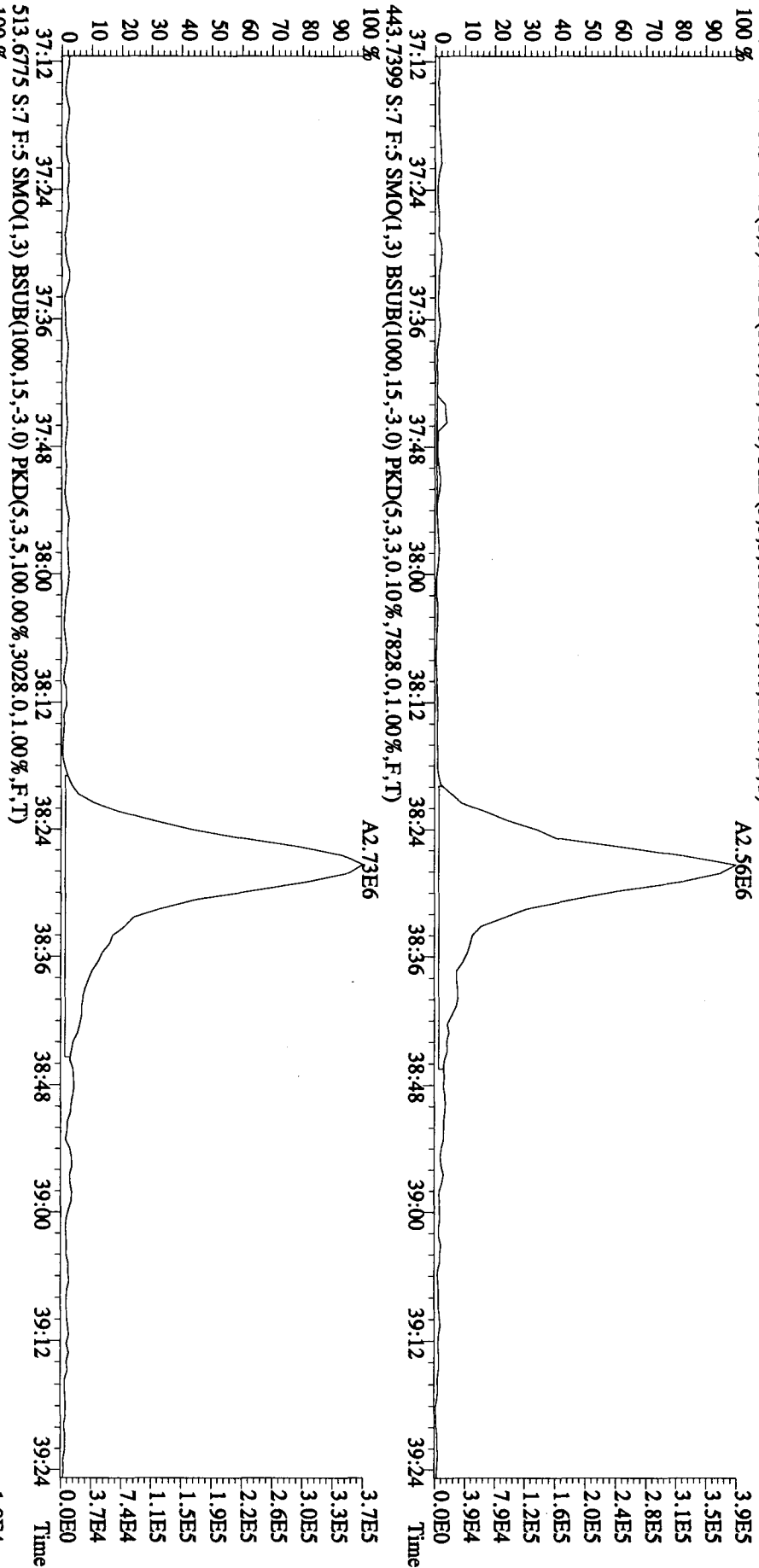
File:04JA10A1D5 #1-228 Acq: 4-JAN-2010 18:33:37 GC EI+ Voltage SIR 70SE
 Sample#7 Text:LQ2LD-3-AC :G9L120491-7RX Exp:DIOXIN
 407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5724.0,1.00%,F,T)
 100%



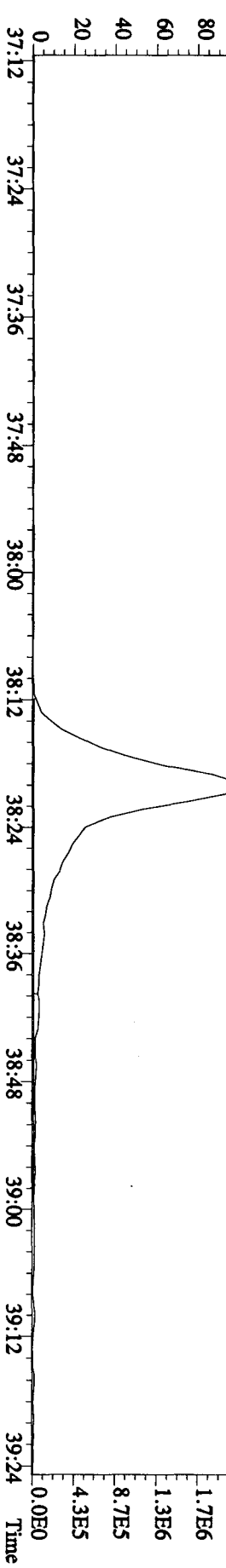
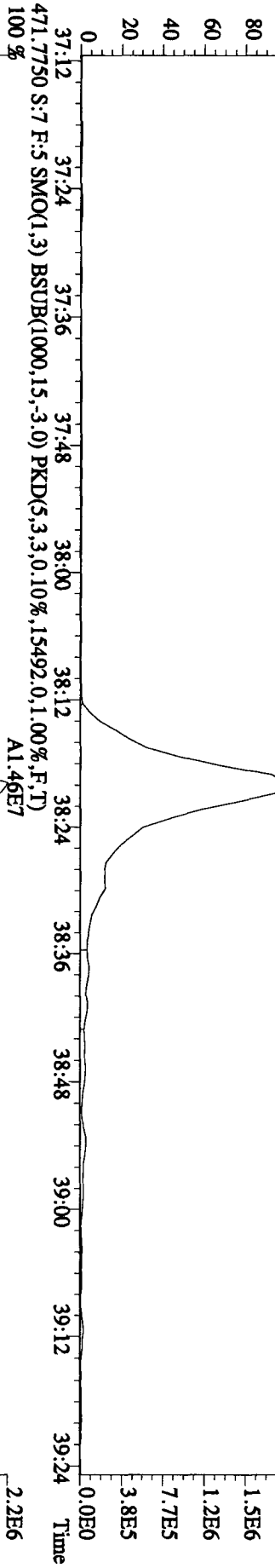
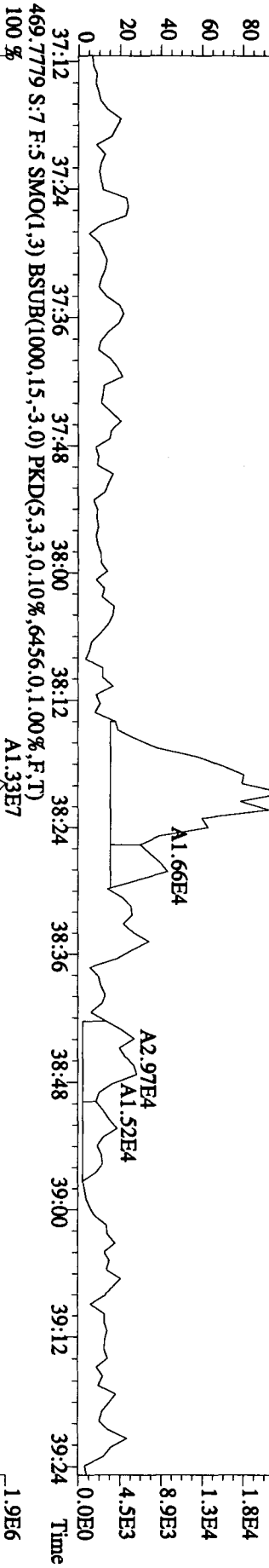
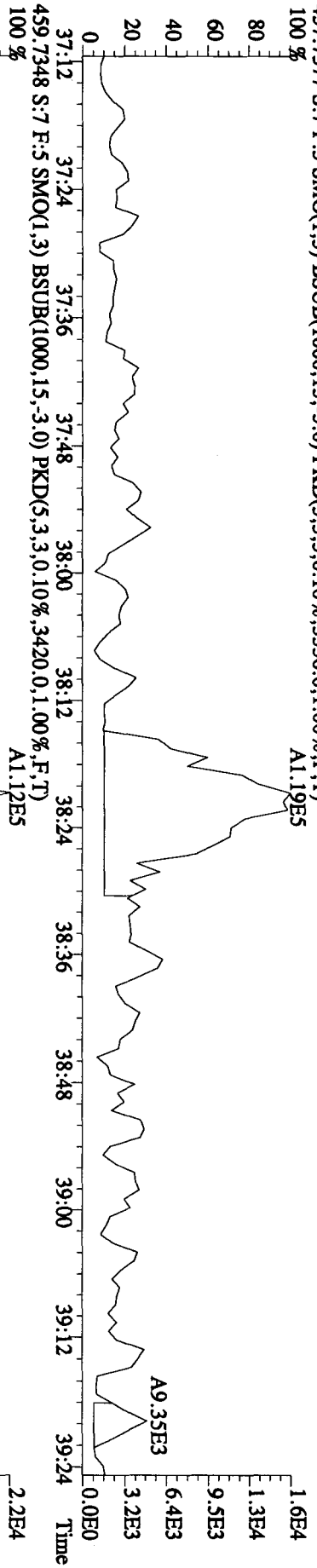
File:04JA10A1D5 #1-228 Acq: 4-JAN-2010 18:33:37 GC EI+ Voltage SIR 70SE
 Sample#7 Text:LO2LD-3-AC :G9L120491-7RX Exp.:DIOXIN
 423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4008,0,1,00%,F,T)
 100 %



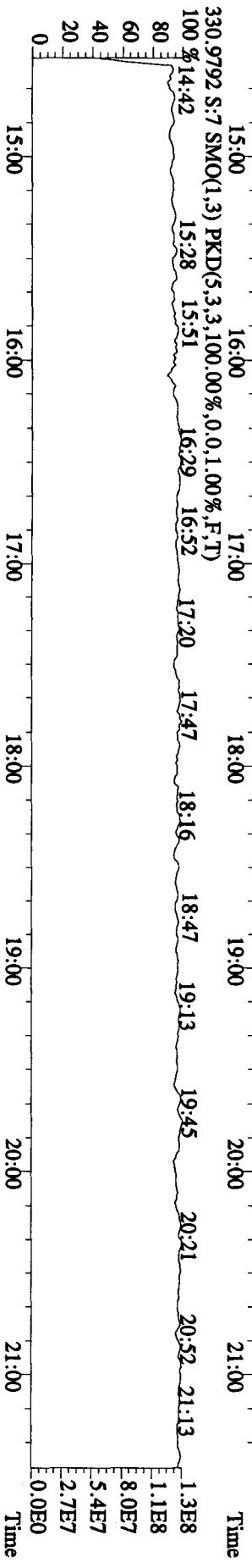
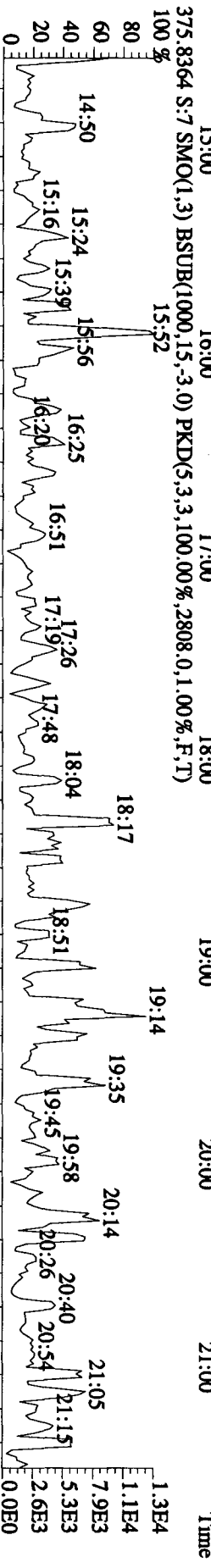
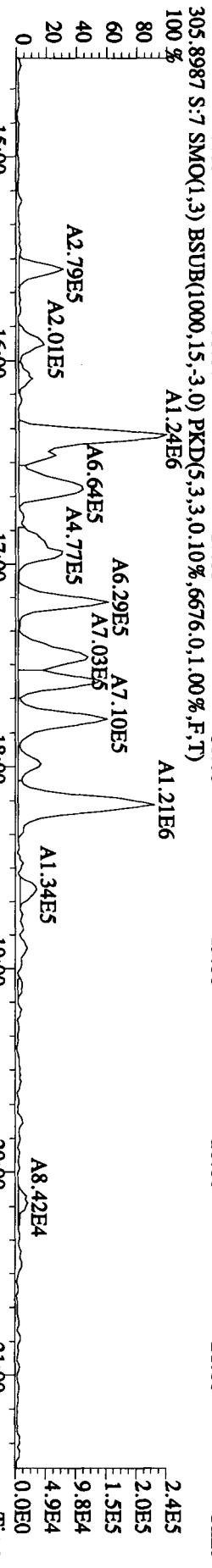
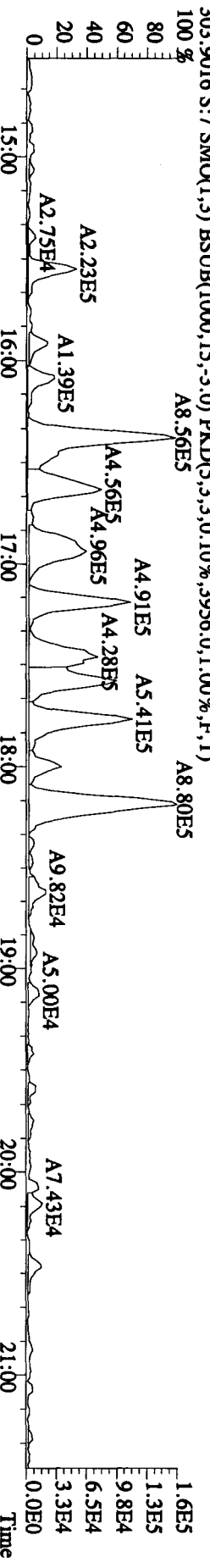
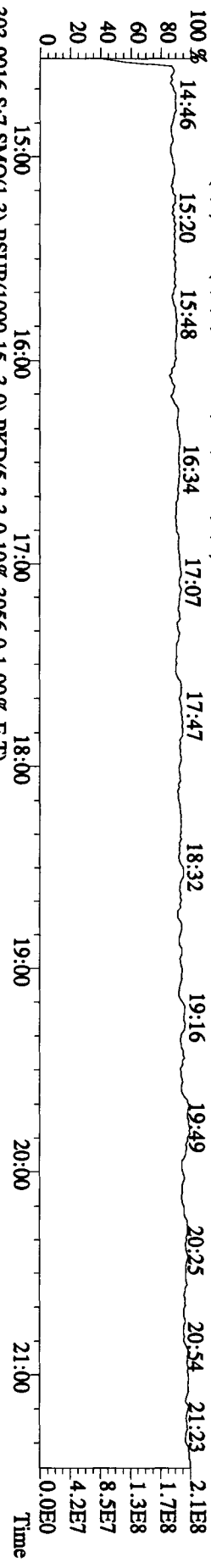
File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 18:33:37 GC EI+ Voltage SIR 70SE
 Sample#7 Text:LO2LD-3-AC :G9L120491-7RX Exp:DIOXIN
 441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4900.0,1.00%,F,T)

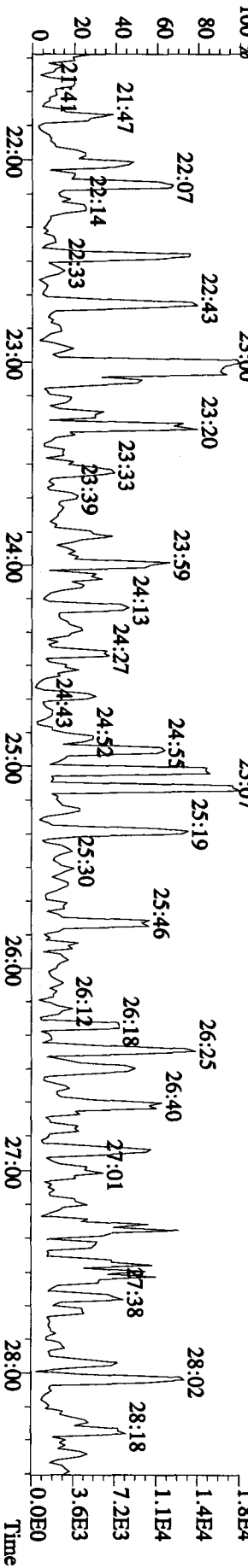
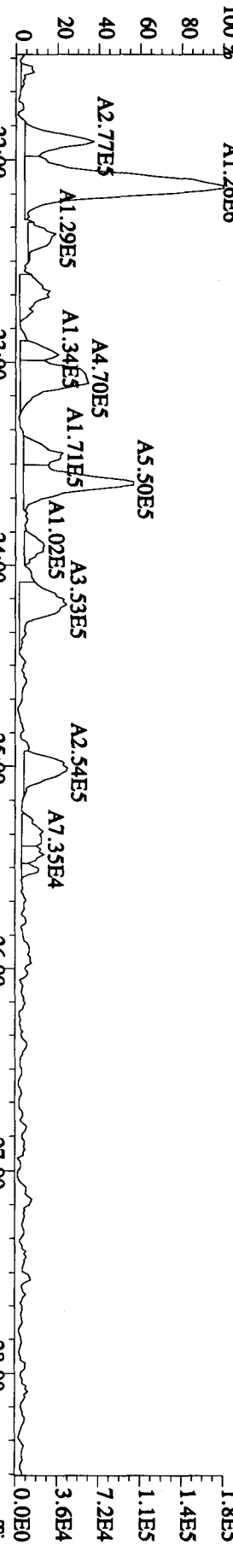
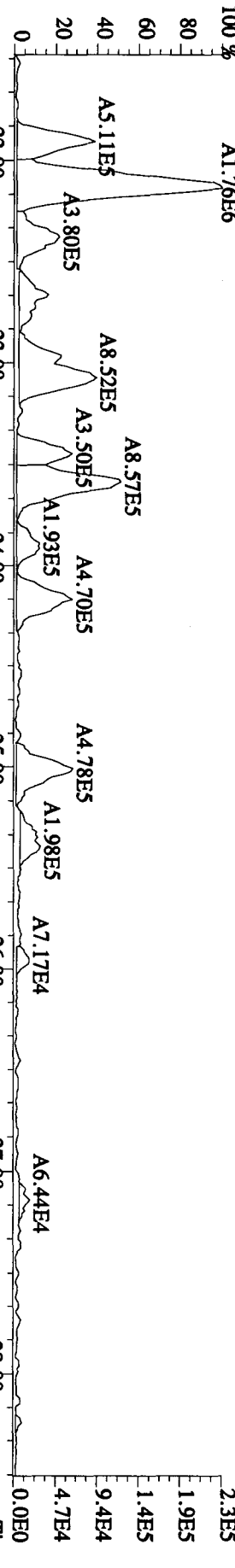
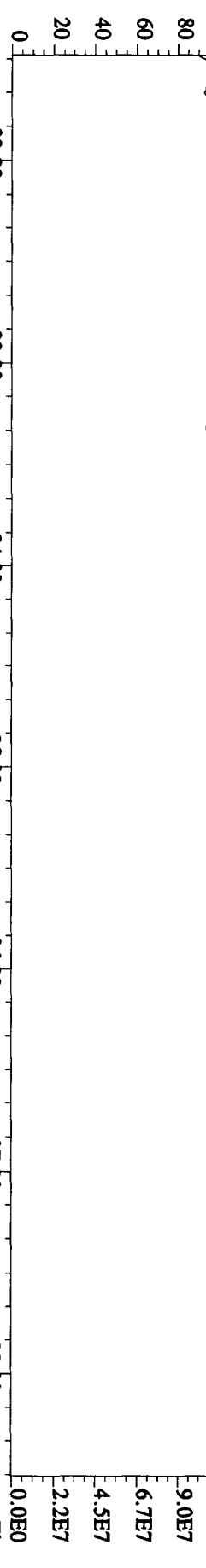


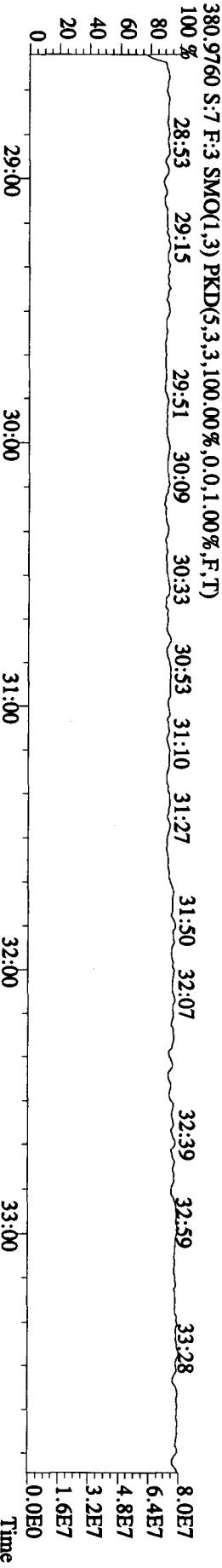
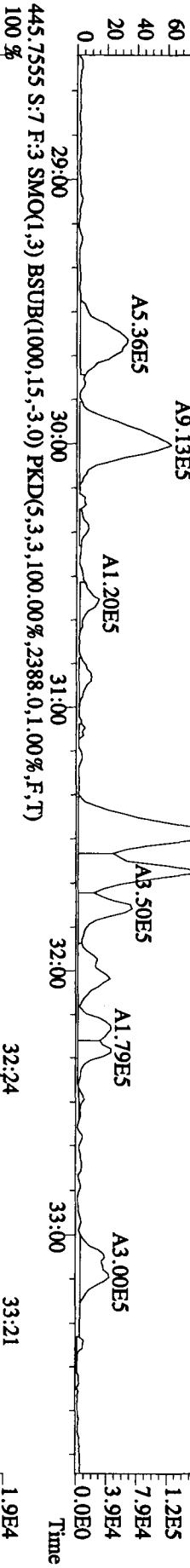
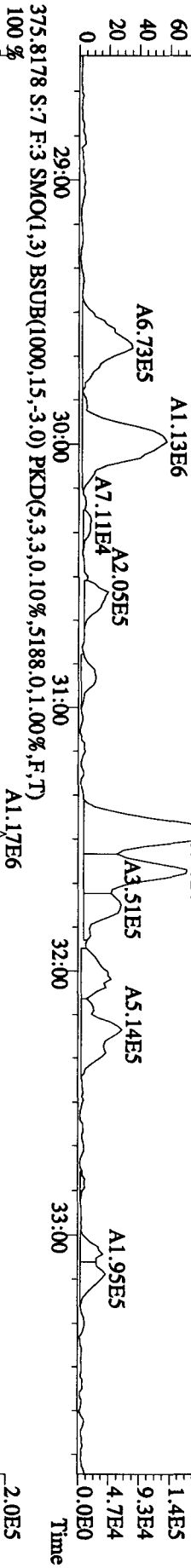
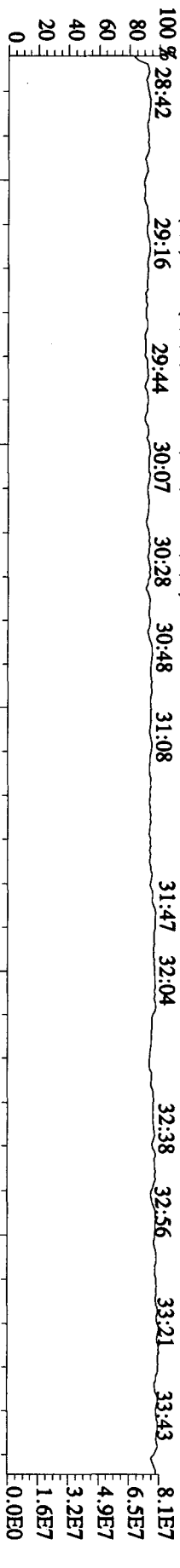
File:04JA10AID5 #1-161 Acq: 4-JAN-2010 18:33:37 GC EI+ Voltage SIR 70SE
 Sample#7 Text:LO2LD-3-AC :G9L120491-7RX Exp:DIOXIN
 457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3336,0,1,00%,F,T)
 100 %

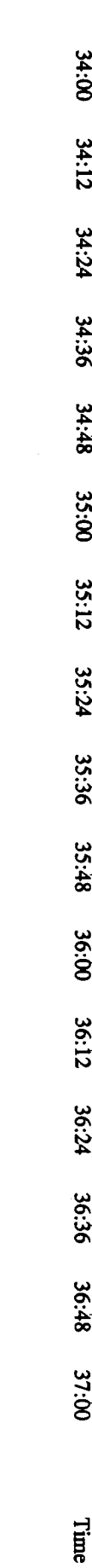
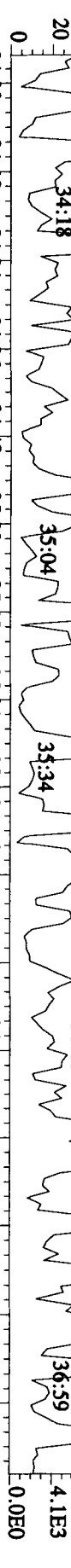
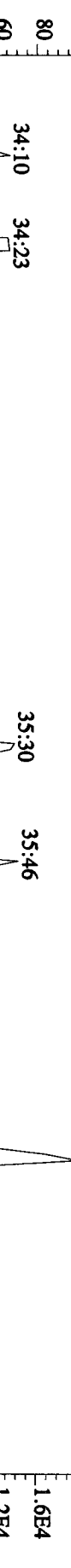
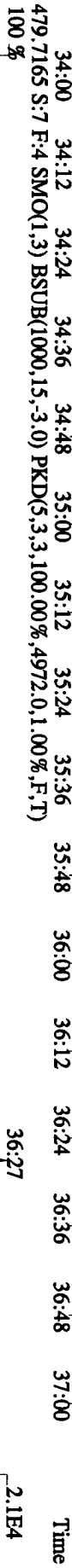
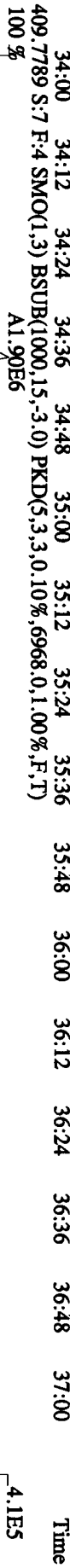
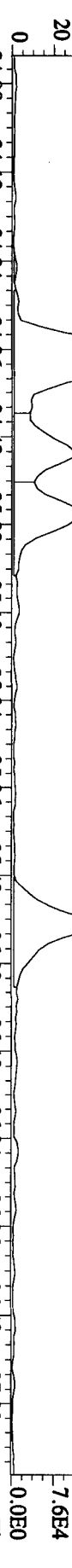
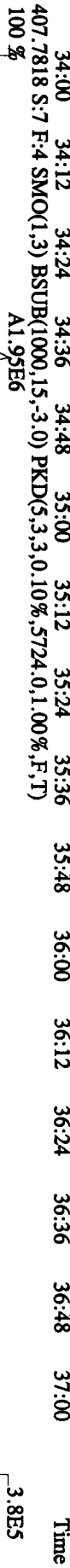
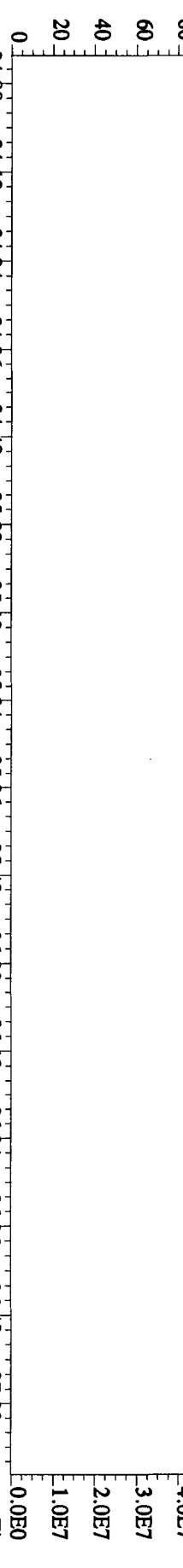


File:04J1A10AID5 #1-411 Acq: 4-JAN-2010 18:33:37 GC EI+ Voltage SIR 70SE
 Sample#7 Text:LOQLD-3-AC :G9L120491-7RX Exp:DIOXIN
 292.9825 S:7 SMO(1,3) PKD(5,3,5,100.00%,0,0,1.00%,F,T)









File:04JA10AIDS #1-161 Acq: 4-JAN-2010 18:33:37 GC EI + Voltage SIR 70SE

Sample#7 Text:LQ2LD-3-AC :G9L120491-7RX Exp:DIOXIN

454.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100% 37:21 37:33 37:42 37:54 38:02

90 37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 39:12 39:24

80 37:12 37:19 37:27 37:41 37:52 38:06 38:12 38:24 38:28 38:36 38:46 39:00 39:08 39:18

70 37:12 37:19 37:27 37:41 37:52 38:06 38:12 38:24 38:28 38:36 38:46 39:00 39:08 39:18

60 37:12 37:19 37:27 37:41 37:52 38:06 38:12 38:24 38:28 38:36 38:46 39:00 39:08 39:18

50 37:12 37:19 37:27 37:41 37:52 38:06 38:12 38:24 38:28 38:36 38:46 39:00 39:08 39:18

40 37:12 37:19 37:27 37:41 37:52 38:06 38:12 38:24 38:28 38:36 38:46 39:00 39:08 39:18

30 37:12 37:19 37:27 37:41 37:52 38:06 38:12 38:24 38:28 38:36 38:46 39:00 39:08 39:18

20 37:12 37:19 37:27 37:41 37:52 38:06 38:12 38:24 38:28 38:36 38:46 39:00 39:08 39:18

10 37:12 37:19 37:27 37:41 37:52 38:06 38:12 38:24 38:28 38:36 38:46 39:00 39:08 39:18

0 37:12 37:19 37:27 37:41 37:52 38:06 38:12 38:24 38:28 38:36 38:46 39:00 39:08 39:18

5.1E7
4.6E7
4.1E7
3.5E7
3.0E7
2.5E7
2.0E7
1.5E7
1.0E7
5.1E6
0.0E0

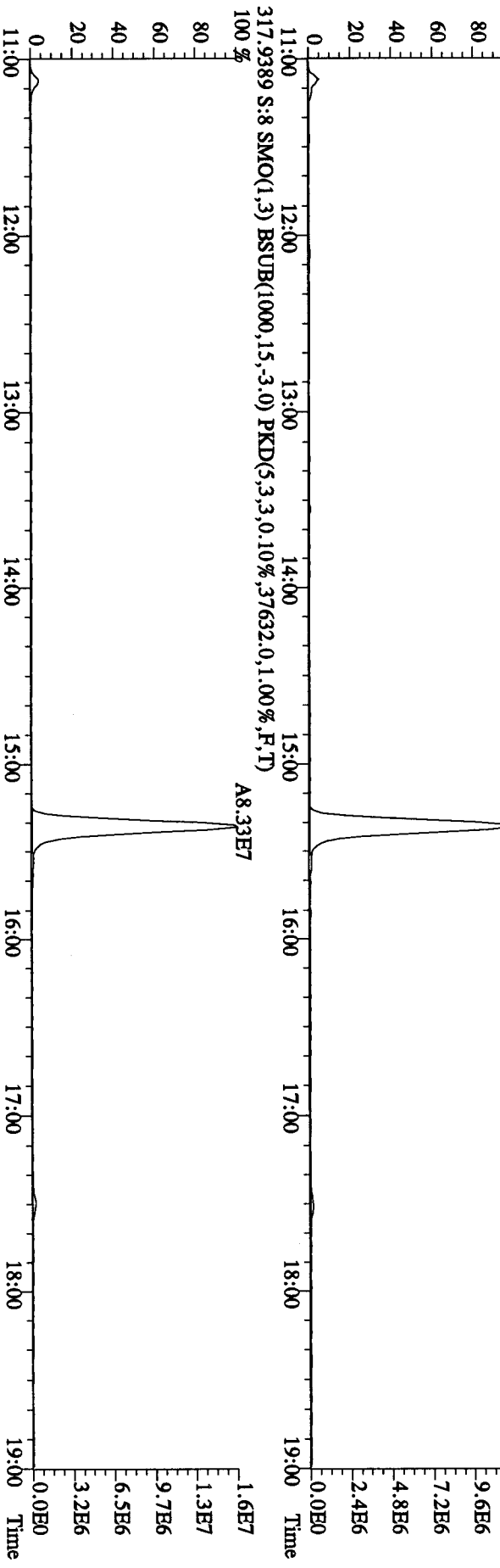
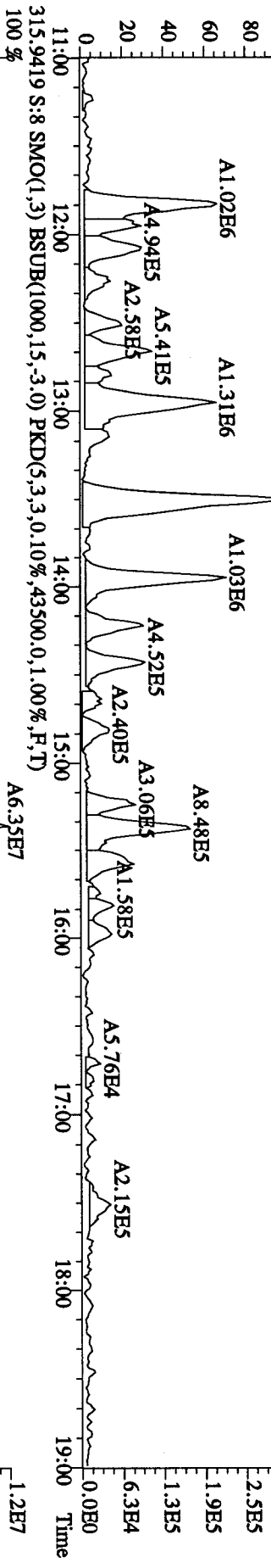
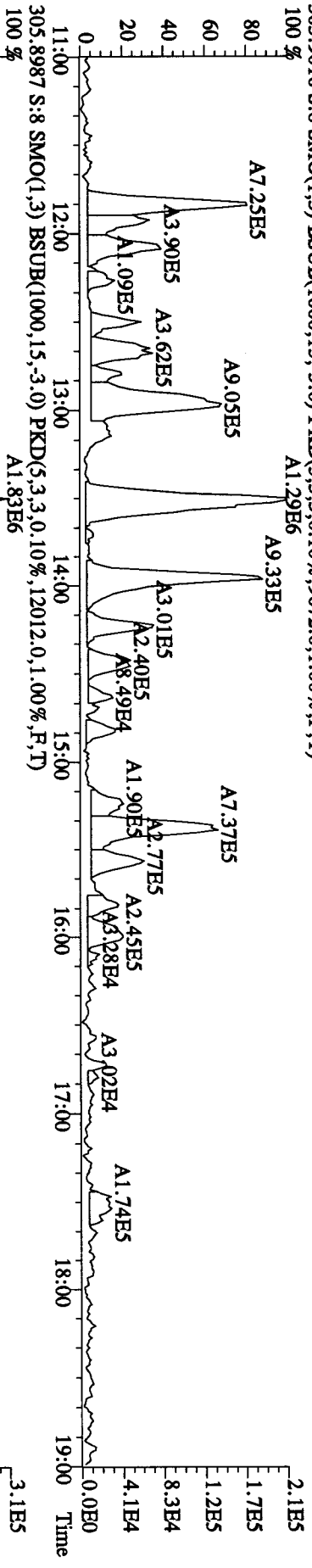
Time
0.0E0
5.2E7
4.7E7
4.2E7
3.7E7
3.1E7
2.6E7
2.1E7
1.6E7
1.0E7
5.2E6
0.0E0

Run text: LQ2LD-3-AC Sample text: LQ2LD-3-AC :G9L120491-7RX
 Run #9 Filename: 05JA105D2 S: 8 I: 1 Results: 05JA105D2DB225
 Acquired: 5-JAN-10 14:32:09 Processed: 5-JAN-10 19:06:31
 Run: 05JA105D2 Analyte: DB225HRS Cal: DB2250104105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.1000g

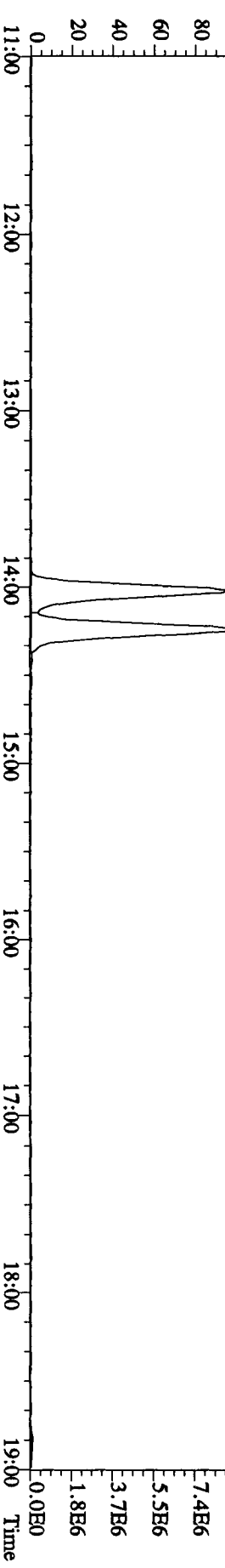
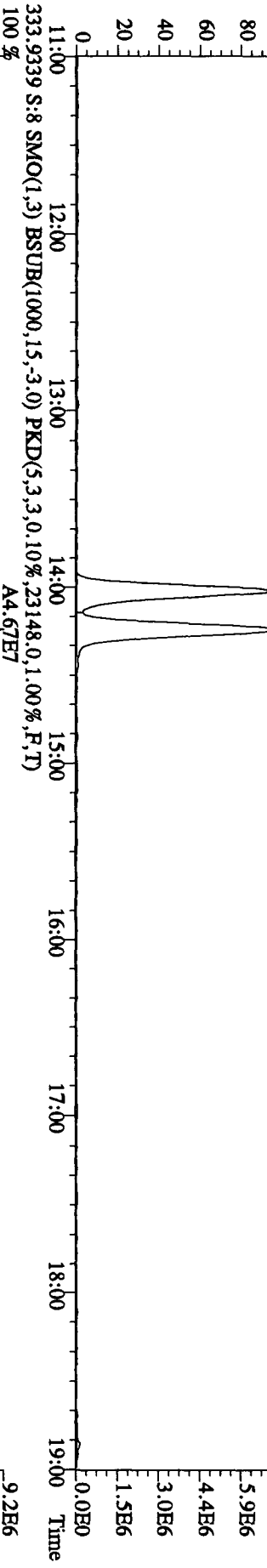
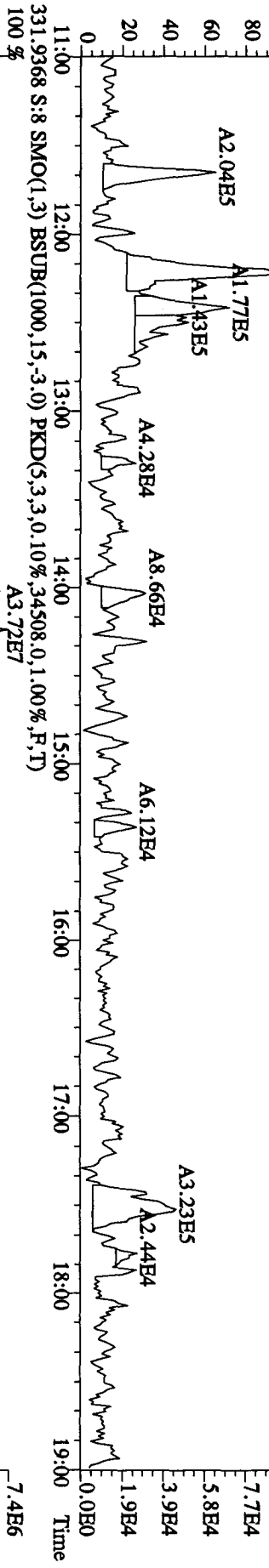
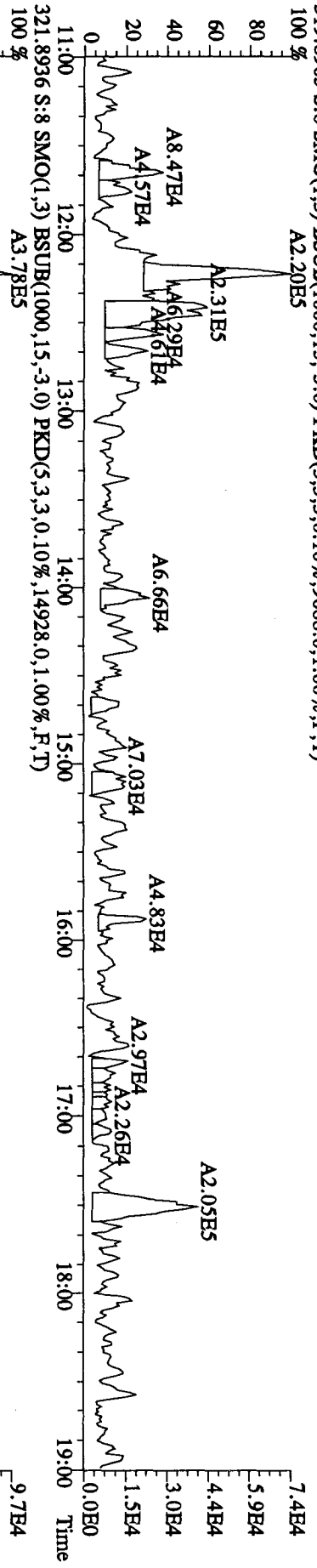
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	83873200	0.80 y	14:14	-	3.84	-	-	n
13C-2,3,7,8-TCDF	146866800	0.76 y	15:22	1.66	104.21	0.88	52.6	n
2,3,7,8-TCDF	1585446	0.87 y	15:23	1.01	✓2.11	0.45	-	n
13C-2,3,7,8-TCDD	80982500	0.78 y	14:01	0.95	100.51	1.09	50.8	n
2,3,7,8-TCDD	153207	0.77 y	14:04	1.18	0.32	0.78	-	n
37Cl-2,3,7,8-TCDD	103065800	1.00 y	14:02	2.07	58.84	0.25	74.3	n

AK
1/7/10

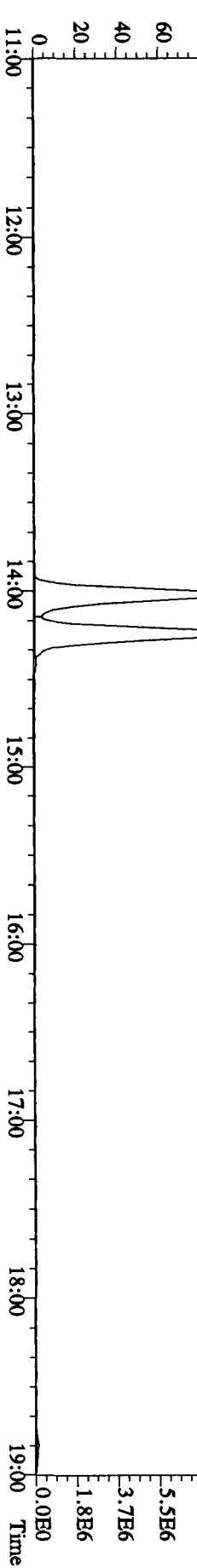
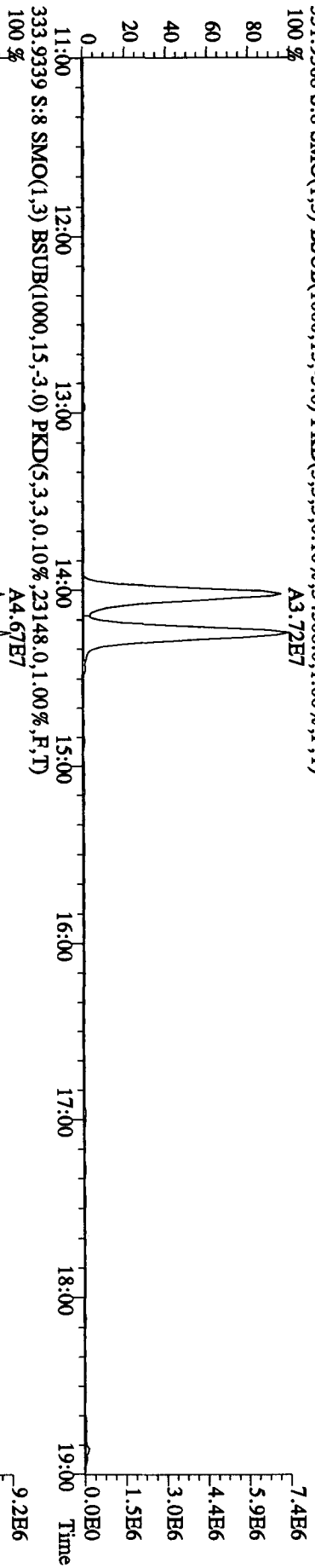
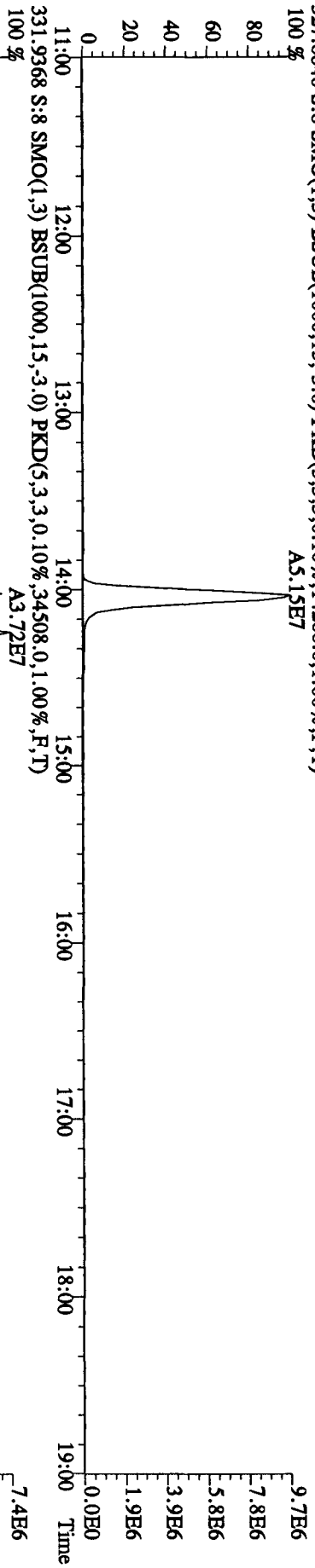
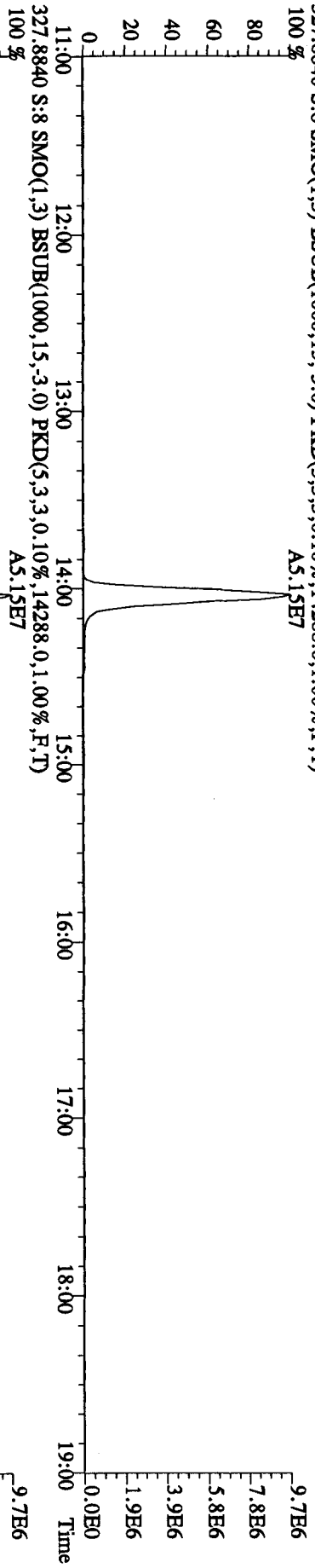
File:051A105D2 #1-1242 Acq: 5-JAN-2010 14:32:09 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ2LD-3-AC :G9L120491-7RX Exp:DB225
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9672.0,1,100%,F,T)
 100 %



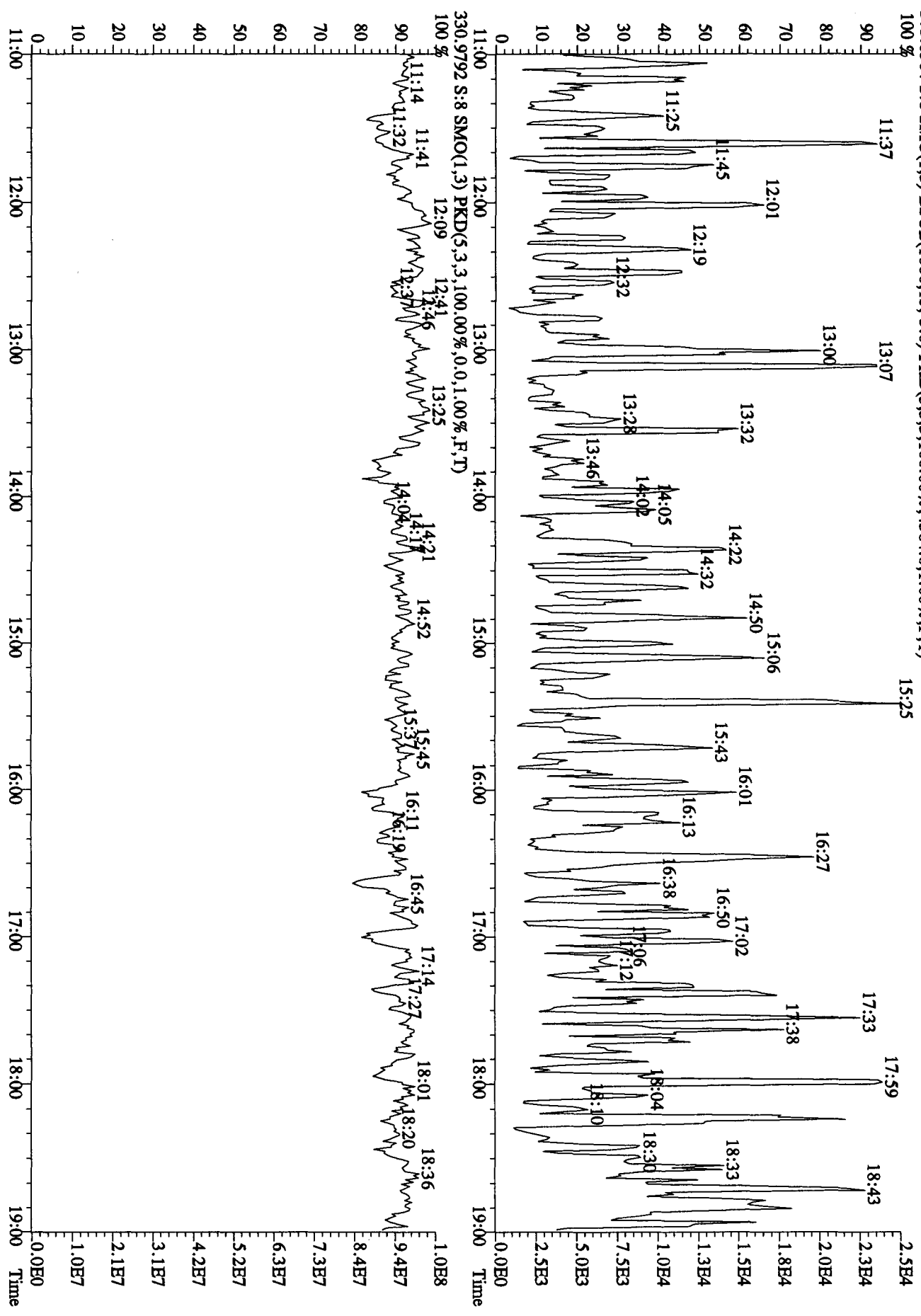
File:051A105D2 #1-1242 Acq: 5-JAN-2010 14:32:09 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ2LD-3-AC :G9L120491-7RX Exp:DB225
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9688,0,1,00%,F,T)



File:051A105D2 #1-1242 Acq: 5-JAN-2010 14:32:09 GC EI+ Voltage SIR 70SE
Sample#8 Text:LO2LD-3-AC :G9L120491-7RX Exp:DB225
327.8840 S:8 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0,10%,14288.0,1.00%,F,T)
100% A5.15E7



File:05JA10SID2 #1-1242 Acq: 5-JAN-2010 14:32:09 GC EI+ Voltage S1R 70SE
 Sample#8 Text:LO2LD-3-AC :G9L120491-7RX Exp:DB225
 375.8364 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,4364,0,1.00%,F,T)



Run text: LQ2LE-3-AC Sample text: LQ2LE-3-AC :G9L120491-8RX
 Run #12 Filename: 04JA10A1D5 S: 8 I: 1 Results: 04ja10ald58290
 Acquired: 4-JAN-10 19:15:25 Processed: 5-JAN-10 07:51:40
 Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.02 g

AK 1/8/10

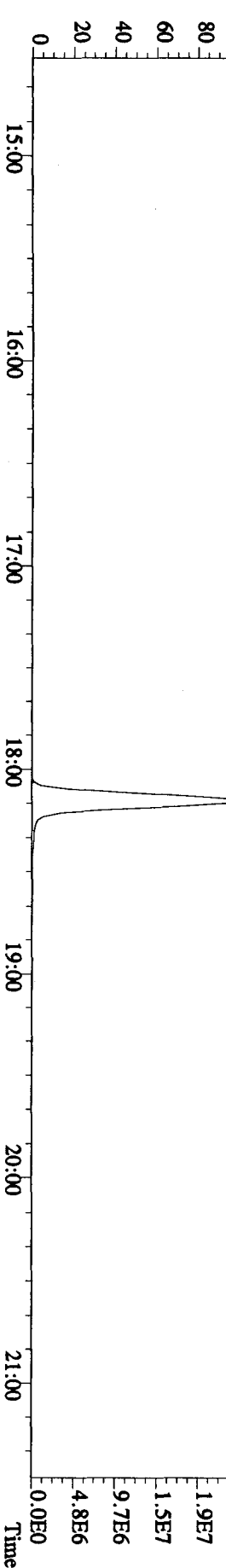
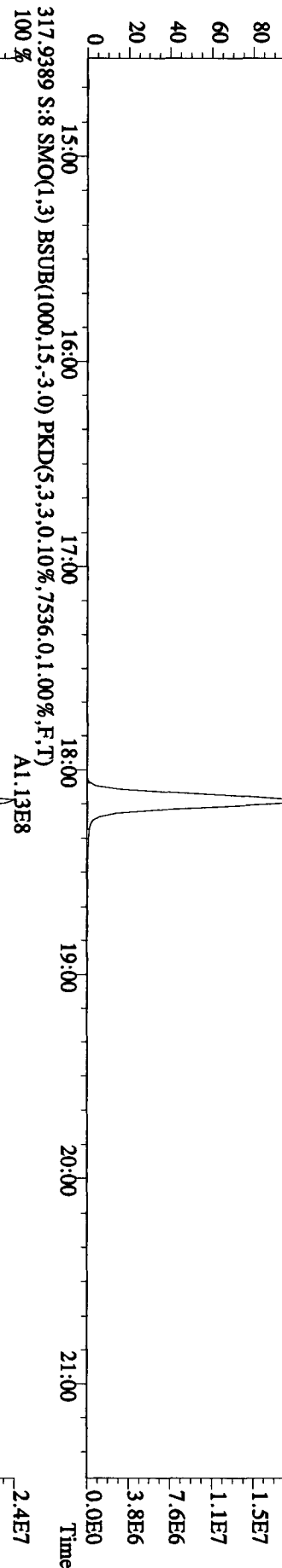
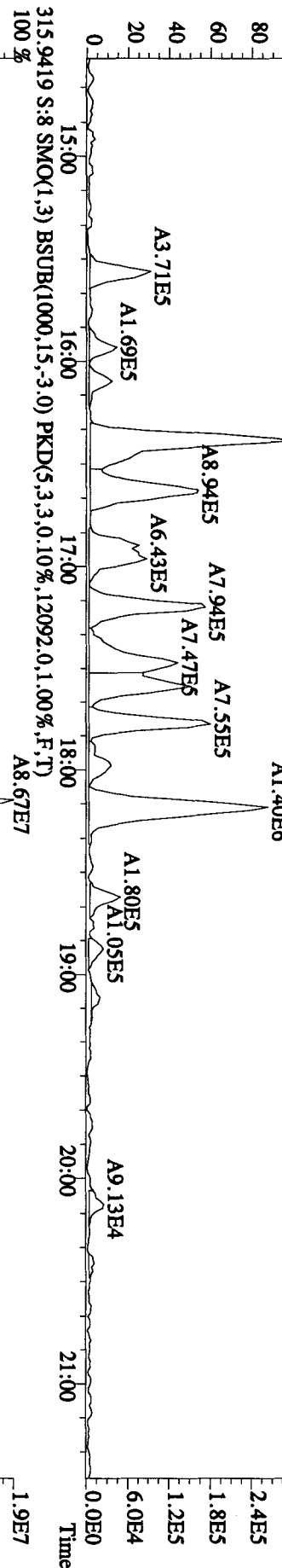
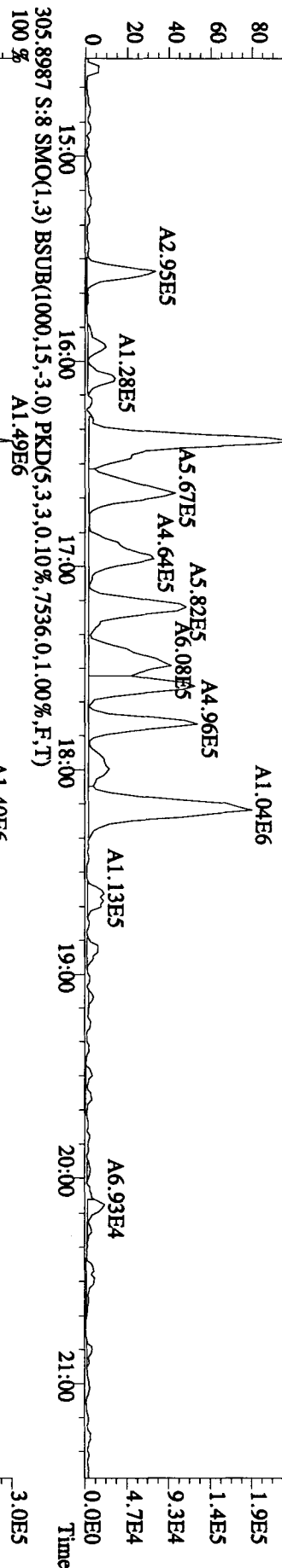
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	140082300	0.77 y	18:42	-	4.49	-	-	n
13C-2,3,7,8-TCDF	199362100	0.77 y	18:09	1.57	90.70	0.12	45.4	n
2,3,7,8-TCDF	2443110	0.74 y	18:12	0.86	2.84 <i>see B225</i>	0.19	-	n
Total TCDF	14927097	0.80 y	15:34	0.86	17.28	0.19	-	n
13C-2,3,7,8-TCDD	140732700	0.77 y	18:55	0.99	100.94	0.39	50.6	n
2,3,7,8-TCDD	*	* n	NotFnd	0.93	*	0.21	-	n
Total TCDD	885361	2.93 n	15:18	0.93	1.34	0.21	-	n
37Cl-2,3,7,8-TCDD	162266800	1.00 y	18:56	2.22	52.12	0.08	65.3	n
13C-1,2,3,7,8-PeCDF	141120000	1.64 y	23:33	1.07	93.71	0.15	46.9	n
1,2,3,7,8-PeCDF	1366540	1.28 n	23:34	1.00	1.93 <i>5Q</i>	0.33	-	n
2,3,4,7,8-PeCDF	653796	1.72 y	25:00	0.94	0.99 <i>5</i>	0.35	-	n
Total F2 PeCDF	10930634	1.48 y	21:53	0.97	15.92	0.34	-	n
Total F1 PeCDF	1141666	0.38 n	16:04	0.97	1.67	0.32	-	n
13C-1,2,3,7,8-PeCDD	89608300	1.69 y	25:45	0.67	95.81	0.16	48.0	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.93	*	0.38	-	n
Total PeCDD	917539	1.56 y	22:19	0.93	2.20	0.38	-	n
13C-1,2,3,7,8,9-HxCDD	109648600	1.28 y	32:52	-	3.99	-	-	n
13C-1,2,3,4,7,8-HxCDF	93313200	0.51 y	31:27	0.89	95.13	0.17	47.7	n
1,2,3,4,7,8-HxCDF	1838855	1.12 y	31:28	1.20	<i>✓</i> 3.28	0.32	-	y
1,2,3,6,7,8-HxCDF	1729549	1.48 n	31:37	1.37	2.70 <i>5Q</i>	0.28	-	y
2,3,4,6,7,8-HxCDF	469108	1.32 y	32:17	1.24	0.81 <i>5</i>	0.31	-	y
1,2,3,7,8,9-HxCDF	294231	1.42 y	33:03	1.33	0.47 <i>↓</i>	0.29	-	y
Total HxCDF	8707329	1.34 y	29:36	1.28	14.55	0.30	-	y
13C-1,2,3,6,7,8-HxCDD	85912400	1.14 y	32:33	0.73	106.81	0.21	53.5	n
1,2,3,4,7,8-HxCDD	65553	1.52 n	32:28	0.97	0.16	0.34	-	y
1,2,3,6,7,8-HxCDD	148368	1.20 y	32:34	1.06	0.33 <i>5</i>	0.31	-	y
1,2,3,7,8,9-HxCDD	152594	1.65 n	32:52	1.28	0.28 <i>5Q</i>	0.26	-	n
Total HxCDD	798518	1.37 y	31:29	1.10	1.67	0.30	-	y
13C-1,2,3,4,6,7,8-HpCDF	68346500	0.41 y	34:36	0.86	72.32	0.75	36.2	n
1,2,3,4,6,7,8-HpCDF	4623920	1.02 y	34:37	1.29	<i>✓</i> 10.50	0.60	-	n
1,2,3,4,7,8,9-HpCDF	1680299	1.17 y	35:54	1.14	<i>✓</i> 4.32	0.67	-	n
Total HpCDF	8946771	1.02 y	34:37	1.21	21.19	0.63	-	n
13C-1,2,3,4,6,7,8-HpCDD	64502200	1.03 y	35:32	0.75	78.05	0.46	39.1	n
1,2,3,4,6,7,8-HpCDD	240239	1.27 n	35:33	1.00	0.75 <i>5Q</i>	0.60	-	n
Total HpCDD	543932	1.90 n	34:37	1.00	1.69	0.60	-	n
13C-OCDD	62832500	0.88 y	38:20	0.56	101.32	1.13	25.4	n

OCDF	6681210	0.82	y	38:28	1.44	✓ 29.53	1.29	-	n
OCDD	410512	1.09	n	38:20	1.11	2.35 <i>3Q</i>	0.97	-	y

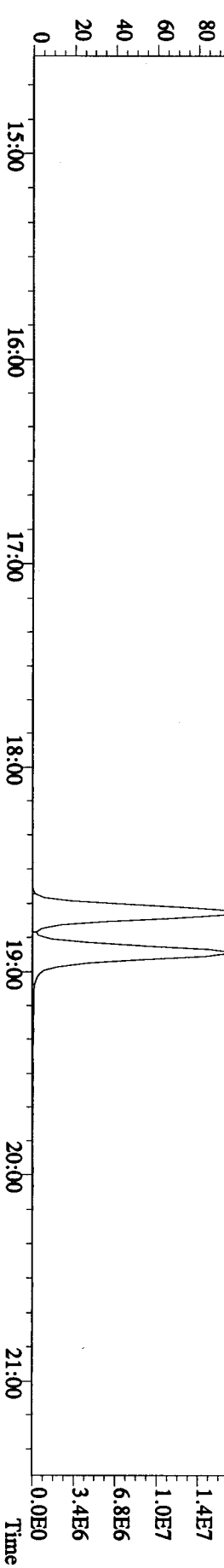
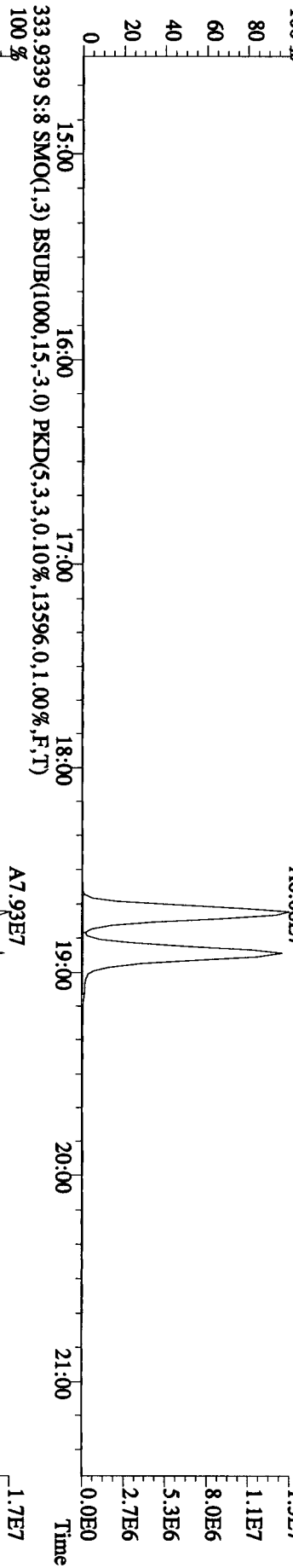
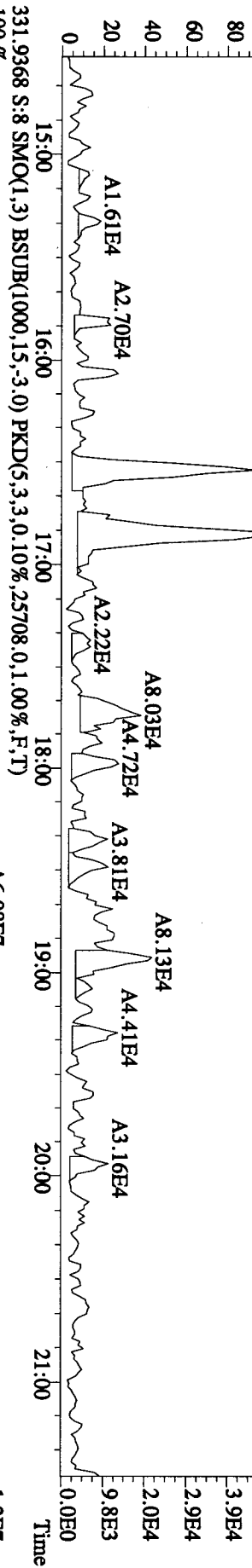
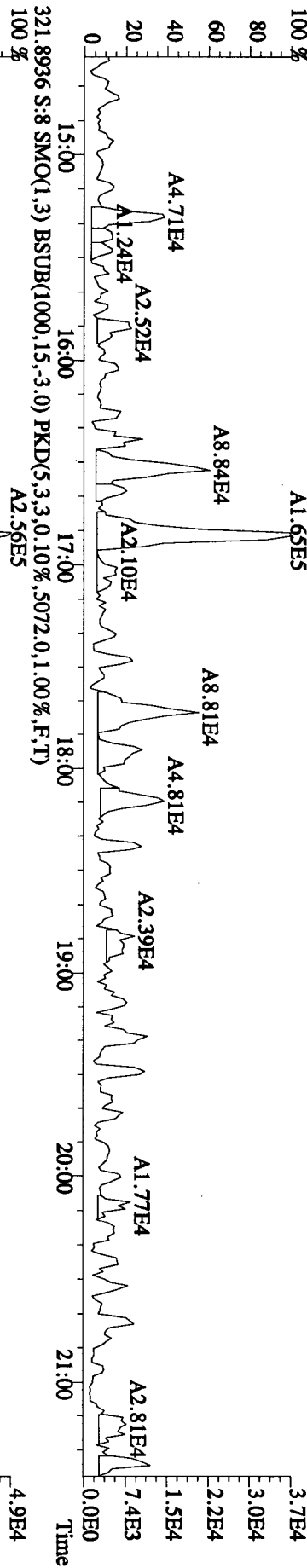
Run text: LQ2LE-3-AC Sample text: LQ2LE-3-AC :G9L120491-8RX
 Run #12 Filename: 04JA10A1D5 S: 8 I: 1 Results: 04JA10A1D58290
 Acquired: 4-JAN-10 19:15:25 Processed: 5-JAN-10 07:51:40
 Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.02007g

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	140082300	0.77 y	18:42	-	4.49	-	-	n
13C-2,3,7,8-TCDF	199362100	0.77 y	18:09	1.57	90.70	0.12	45.4	n
2,3,7,8-TCDF	2443110	0.74 y	18:12	0.86	2.84	0.19	-	n
Total TCDF	14927097	0.80 y	15:34	0.86	17.38	0.19	-	n
13C-2,3,7,8-TCDD	140732700	0.77 y	18:55	0.99	100.94	0.39	50.6	n
2,3,7,8-TCDD	*	* n	NotFnd	0.93	*	0.21	-	n
Total TCDD	885361	2.93 n	15:18	0.93	1.34	0.21	-	n
37Cl-2,3,7,8-TCDD	162266800	1.00 y	18:56	2.22	52.12	0.08	65.3	n
13C-1,2,3,7,8-PeCDF	141120000	1.64 y	23:33	1.07	93.71	0.15	46.9	n
1,2,3,7,8-PeCDF	1366540	1.28 n	23:34	1.00	1.93	0.33	-	n
2,3,4,7,8-PeCDF	653796	1.72 y	25:00	0.94	0.99	0.35	-	n
Total F2 PeCDF	10930634	1.48 y	21:53	0.97	15.92	0.34	-	n
Total F1 PeCDF	1141666	0.38 n	16:04	0.97	1.67	0.32	-	n
13C-1,2,3,7,8-PeCDD	89608300	1.69 y	25:45	0.67	95.81	0.16	48.0	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.93	*	0.38	-	n
Total PeCDD	917539	1.56 y	22:19	0.93	2.20	0.38	-	n
13C-1,2,3,7,8,9-HxCDD	109648500	1.28 y	32:52	-	3.99	-	-	n
13C-1,2,3,4,7,8-HxCDF	93313100	0.51 y	31:27	0.89	95.13	0.17	47.7	n
1,2,3,4,7,8-HxCDF	2620720	1.11 y	31:28	1.20	4.68	0.32	-	n
1,2,3,6,7,8-HxCDF	1736016	1.91 n	31:37	1.37	2.71	0.28	-	n
2,3,4,6,7,8-HxCDF	991579	1.26 y	32:17	1.24	1.71	0.31	-	n
1,2,3,7,8,9-HxCDF	705763	1.39 y	33:08	1.33	1.14	0.29	-	n
Total HxCDF	10429665	1.34 y	29:36	1.28	17.52	0.30	-	n
13C-1,2,3,6,7,8-HxCDD	85912400	1.14 y	32:33	0.73	106.81	0.21	53.5	n
1,2,3,4,7,8-HxCDD	80283	0.57 n	32:28	0.97	0.19	0.34	-	n
1,2,3,6,7,8-HxCDD	146131	1.03 n	32:34	1.06	0.32	0.31	-	n
1,2,3,7,8,9-HxCDD	152594	1.65 n	32:52	1.28	0.28	0.26	-	n
Total HxCDD	811011	1.37 y	31:29	1.10	1.70	0.30	-	n
13C-1,2,3,4,6,7,8-HpCDF	68346500	0.41 y	34:36	0.86	72.32	0.75	36.2	n
1,2,3,4,6,7,8-HpCDF	4623920	1.02 y	34:37	1.29	10.50	0.60	-	n
1,2,3,4,7,8,9-HpCDF	1680299	1.17 y	35:54	1.14	4.32	0.67	-	n
Total HpCDF	8946771	1.02 y	34:37	1.21	21.19	0.63	-	n
13C-1,2,3,4,6,7,8-HpCDD	64502200	1.03 y	35:32	0.75	78.05	0.46	39.1	n
1,2,3,4,6,7,8-HpCDD	240239	1.27 n	35:33	1.00	0.75	0.60	-	n
Total HpCDD	543932	1.90 n	34:37	1.00	1.69	0.60	-	n
13C-OCDD	62832500	0.88 y	38:20	0.56	101.32	1.13	25.4	n
OCDF	6681210	0.82 y	38:28	1.44	29.53	1.29	-	n
OCDD	260472	1.72 n	38:20	1.11	1.49	0.97	-	n

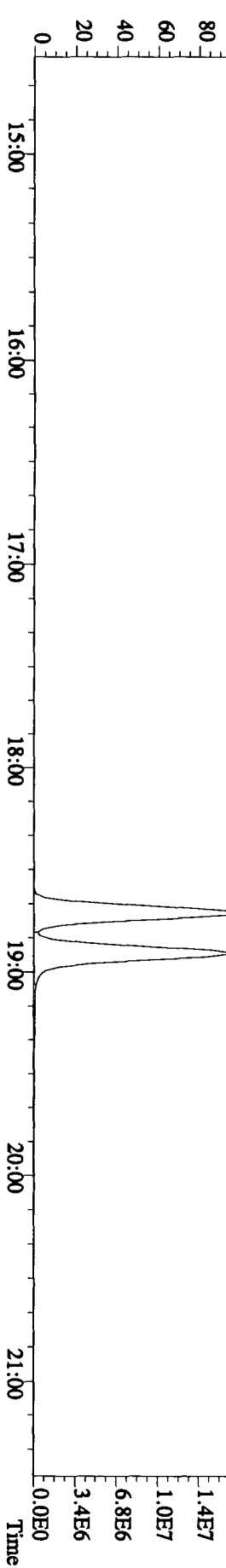
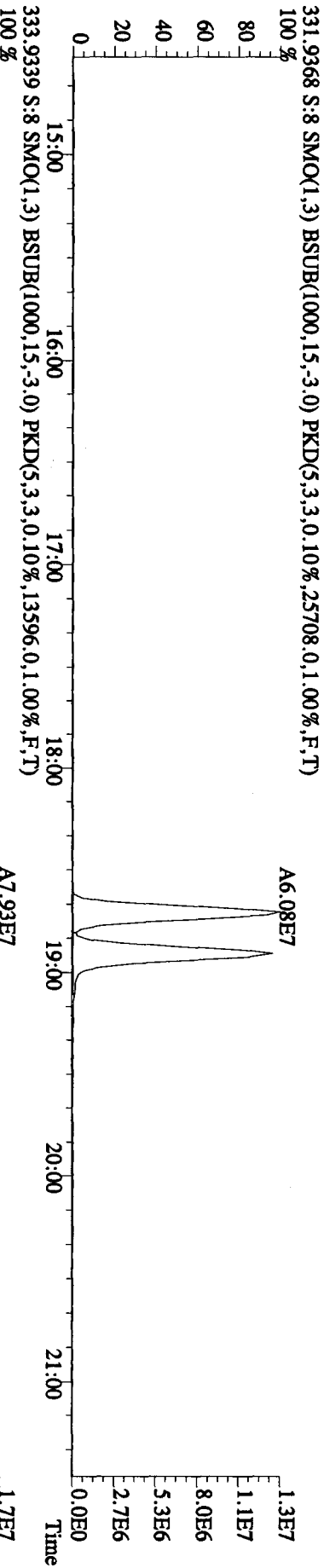
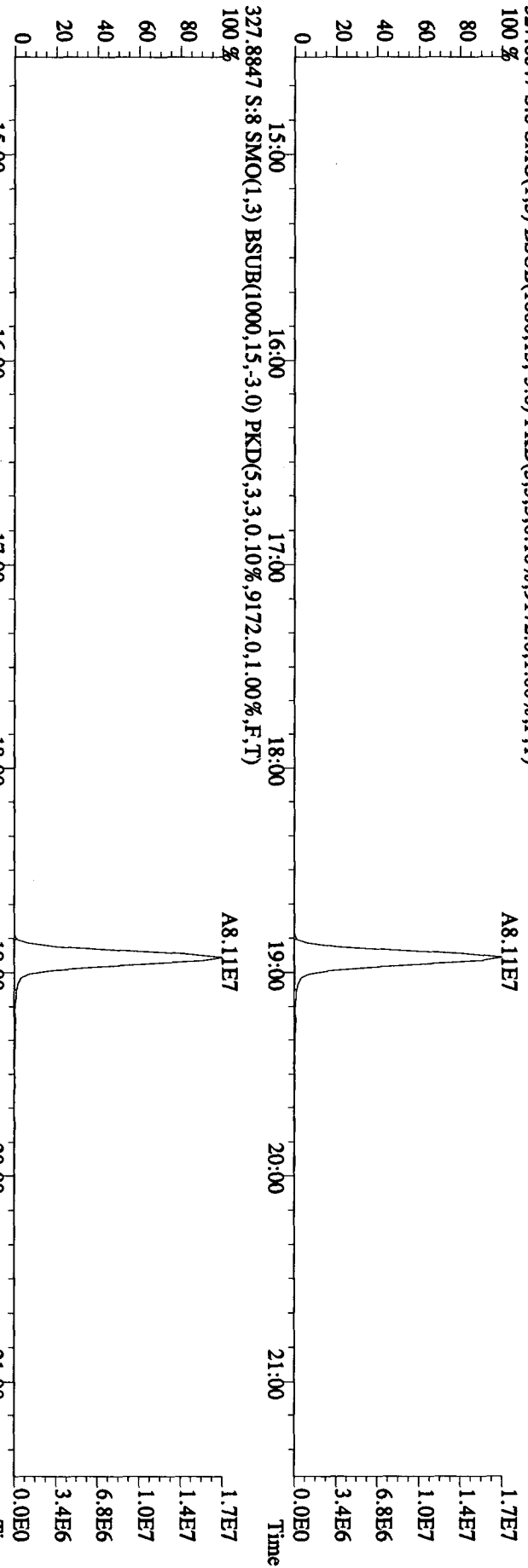
File:04JAI0A1D5 #1-411 Acq: 4-JAN-2010 19:15:25 GC EI + Voltage SIR 70SE
 Sample#8 Text:LO2LE-3-AC :G9L120491-8RX Exp:DIOXIN
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3.992,0.1,0.00%,F,T)
 100 % A1.13E6



File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LO2LE-3-AC :G9L120491-8RX Exp:DIOXIN
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4444,0,1.00%,F,T)
 100 % A1.65E5



File:041A10A1D5 #1-411 Acq: 4-JAN-2010 19:15:25 GC EI + Voltage SIR 70SE
Sample#8 Text:LO2LE-3-AC :G9L120491-8RX Exp:DIOXIN
327.8847 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9172,0,1,00%,F,T)
100%



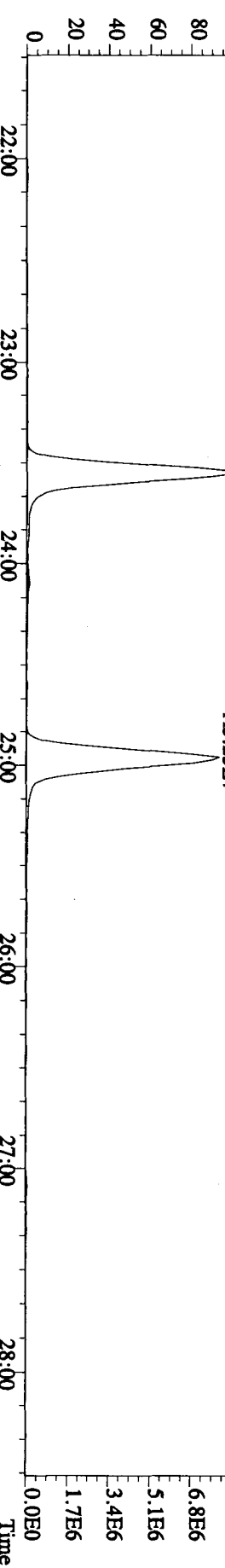
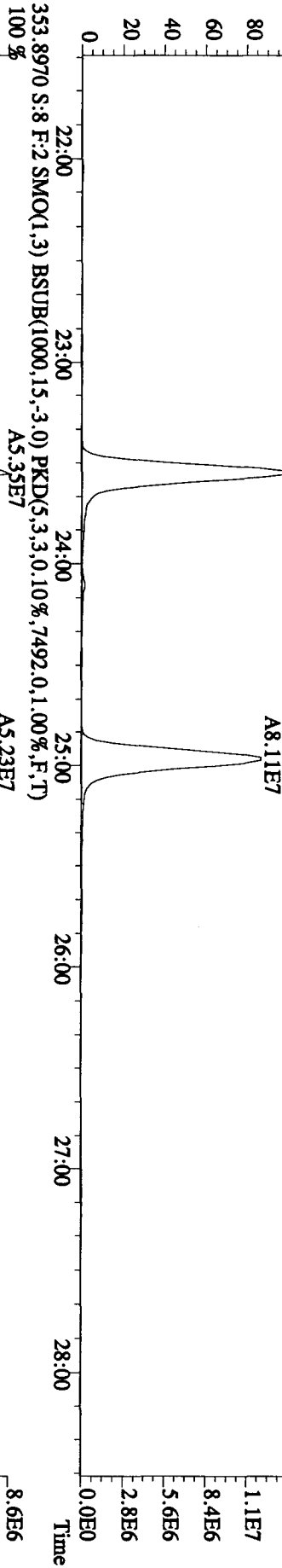
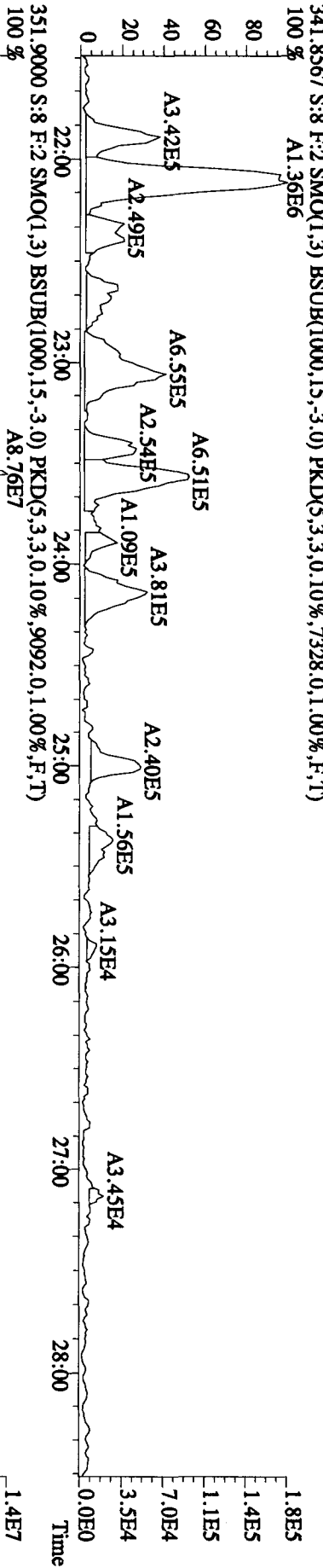
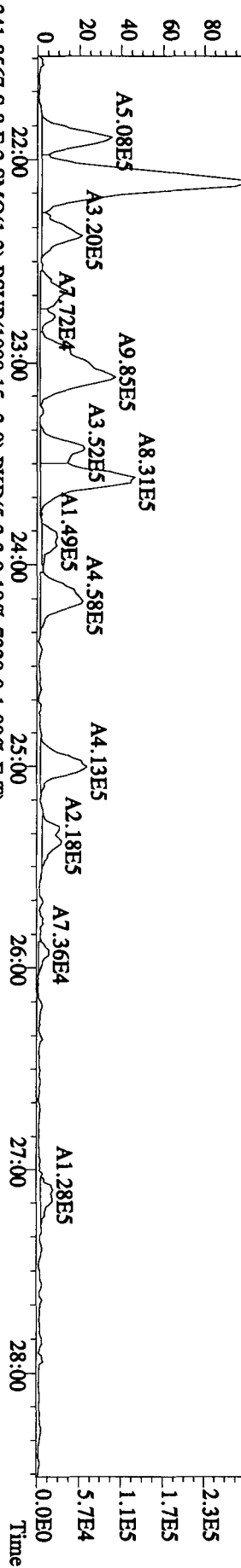
File:04JA10A1D5 #1-495 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE

Sample#8 Text:LO2LE-3-AC :G9L120491-8RX

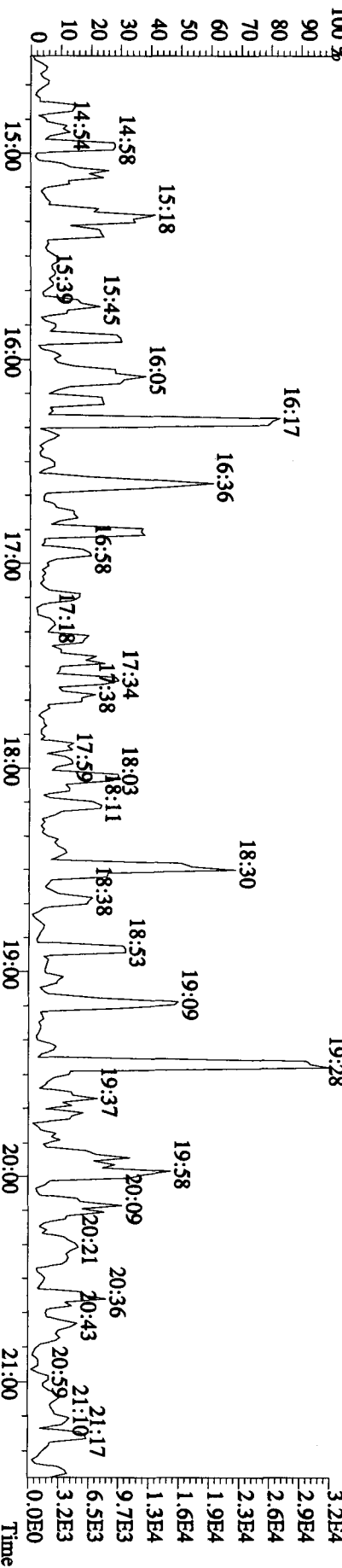
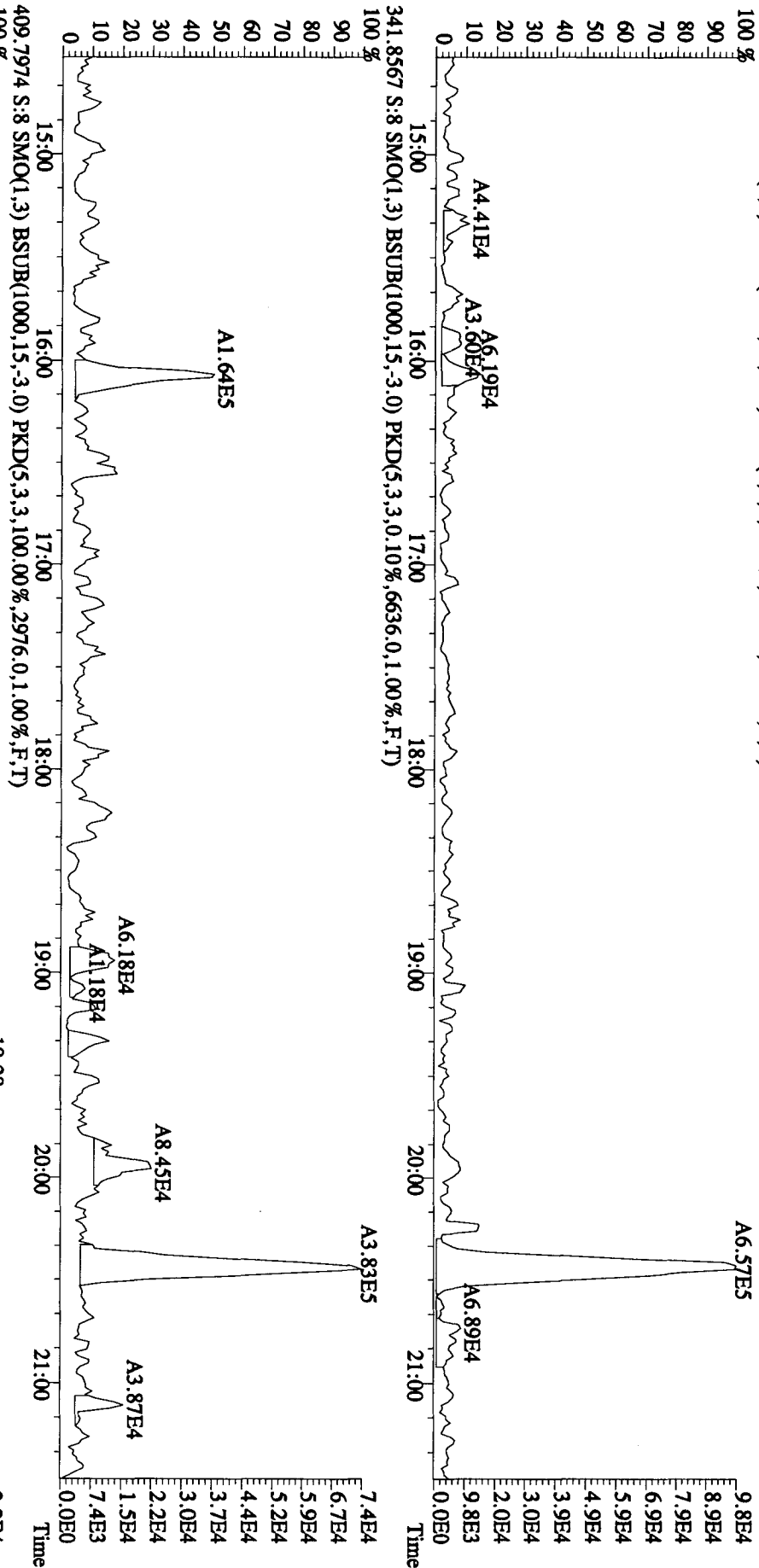
Exp:DIOXIN

339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5016,0.1,00%,F,T)

100 % A2.01E6



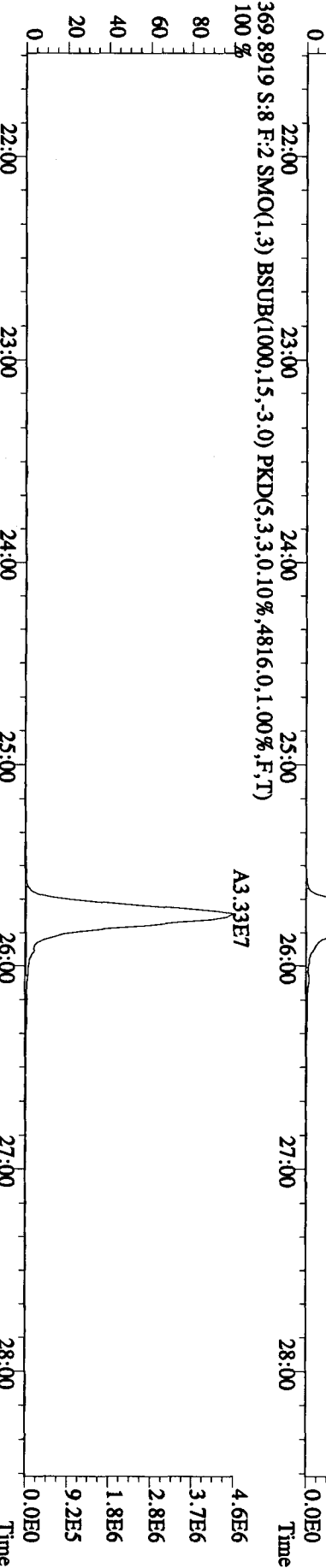
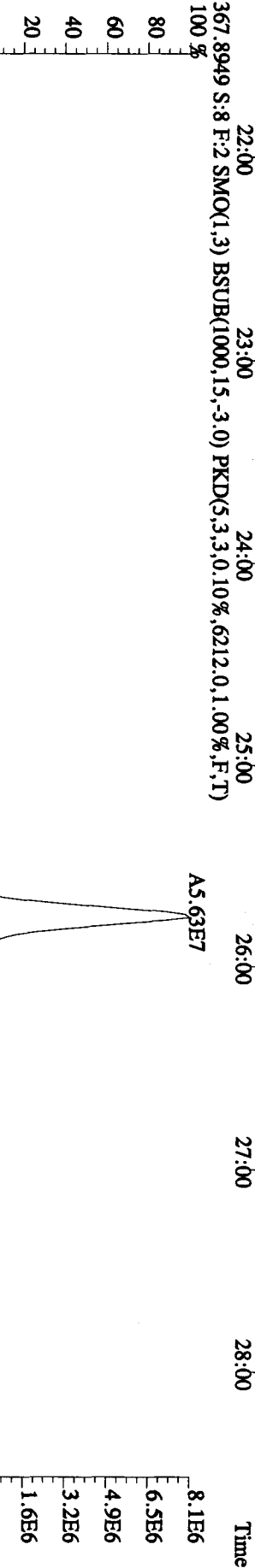
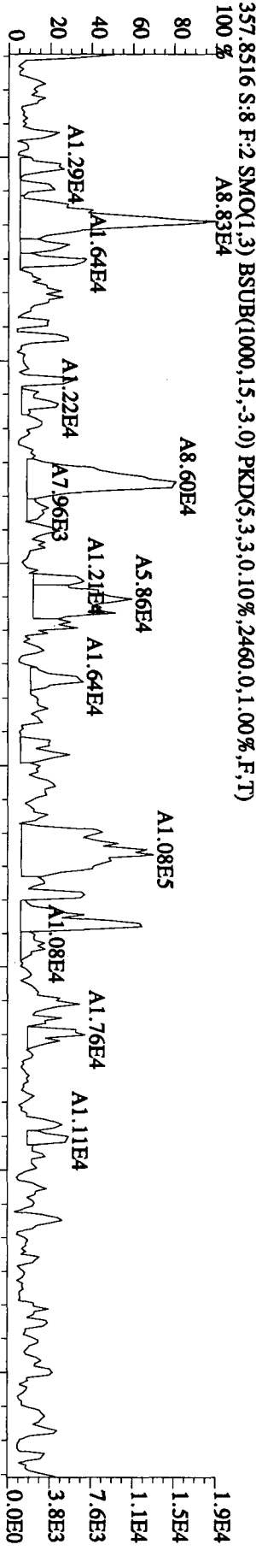
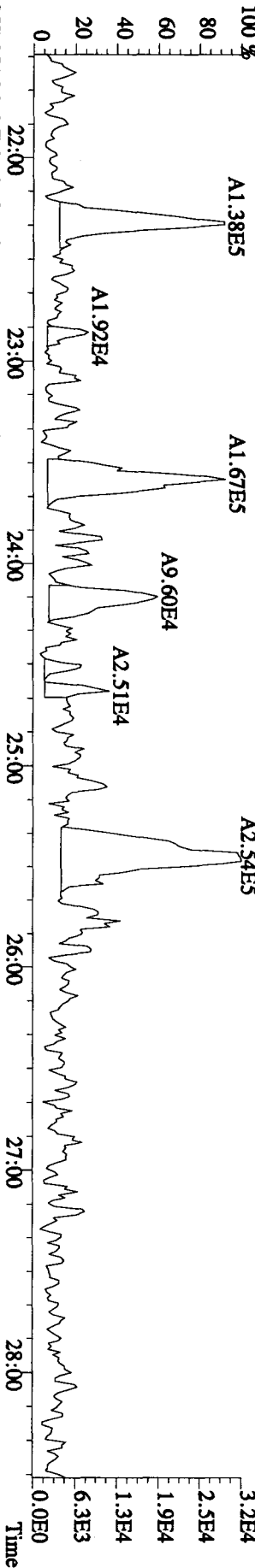
File:04JAI0A1D5 #1-411 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LO2LE-3-AC :G9L120491-8RX Exp:DIOXIN
 339.8597 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4868,0.1,00%,F,T)

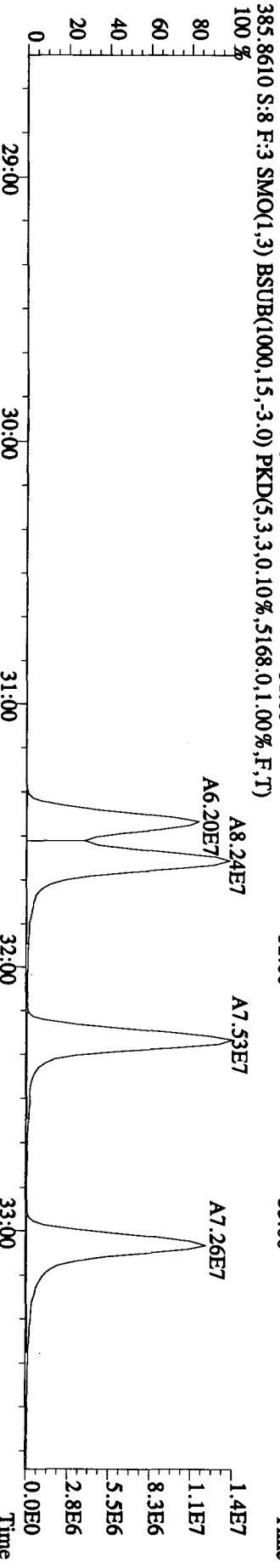
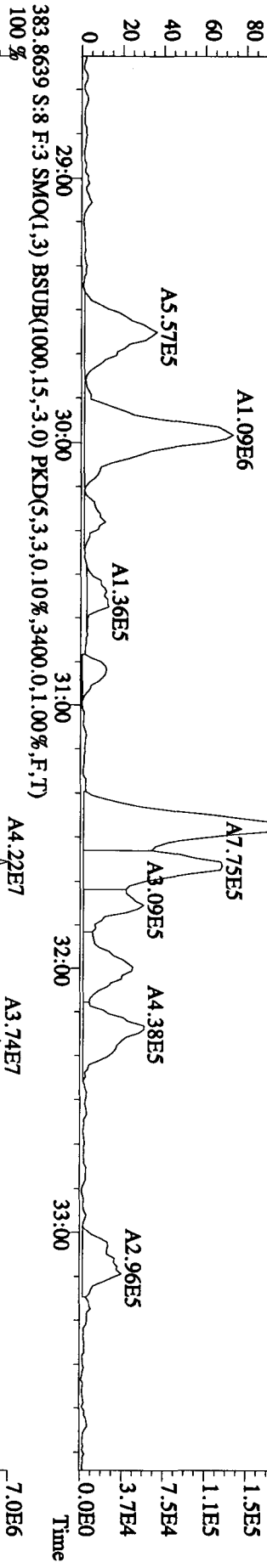
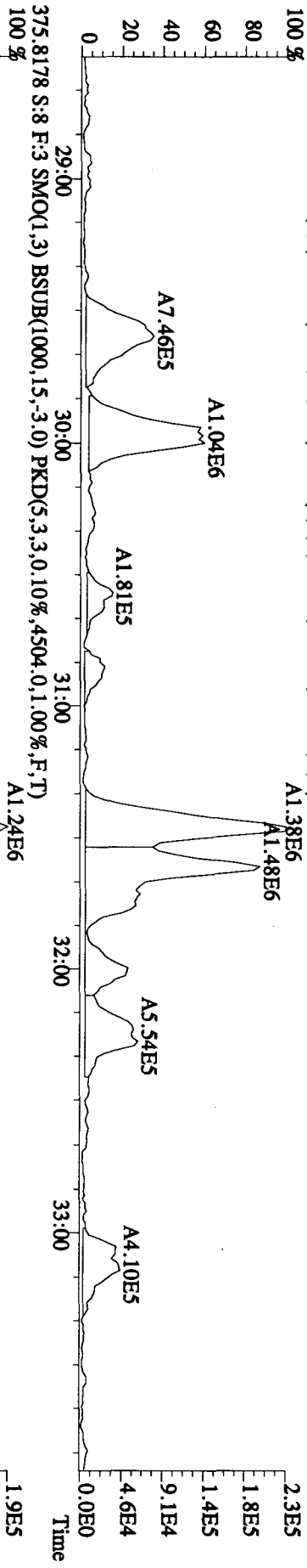


File: 04J1A10AID5 #1-495 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE

Sample#8 Text: LQ2LE-3-AC : G9L120491-8RX Exp: DIOXIN

355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4984,0,1,00%,F,T)





File:04JA10AID5 #1-361 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE

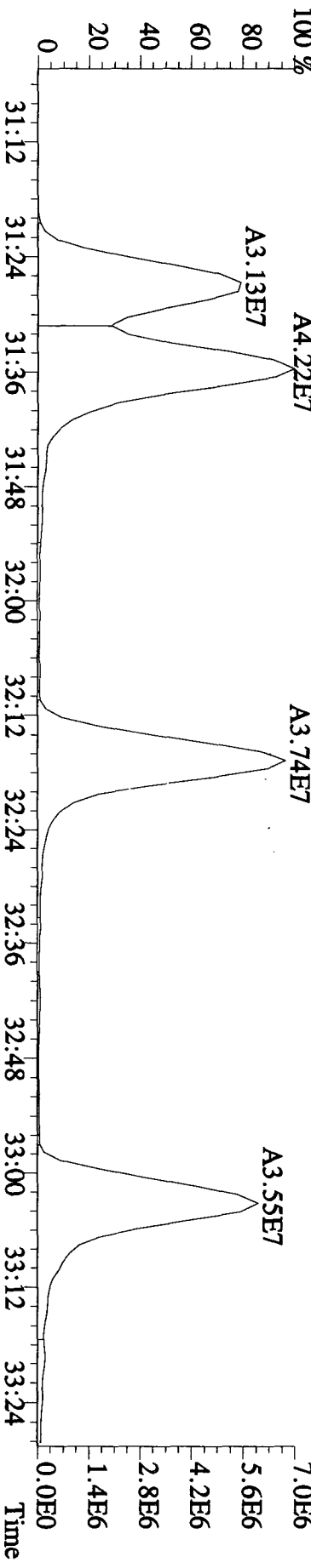
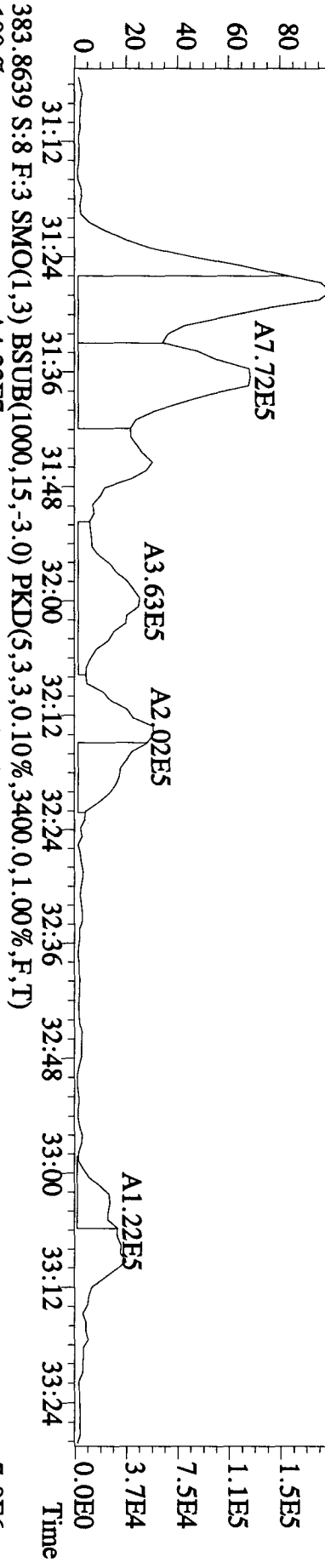
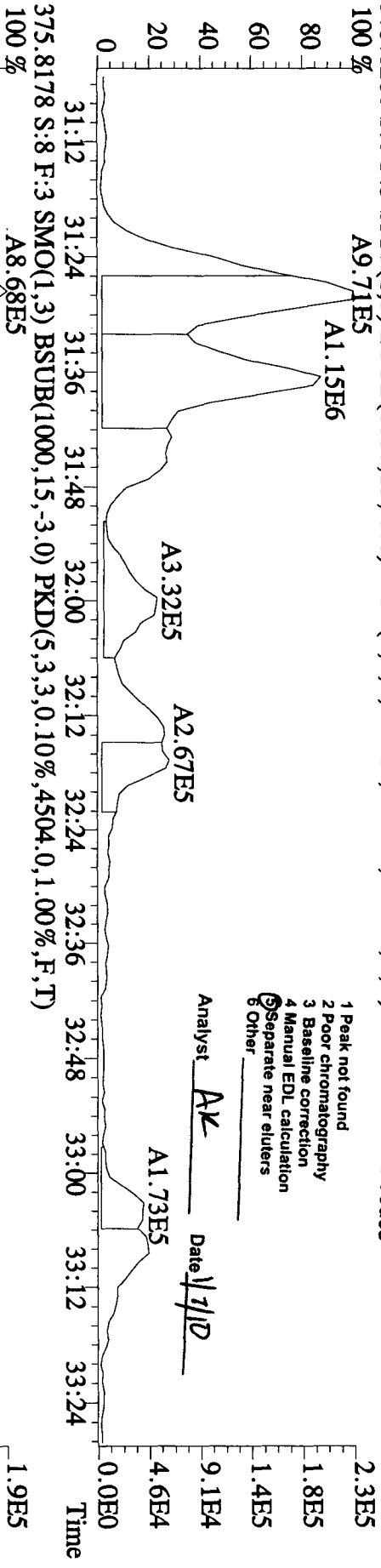
Sample#8 Text:LQ2LE-3-AC :G9L120491-8R Exp:DIOXIN

373.8208 S:8 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6300.0,1.00%,F,T)

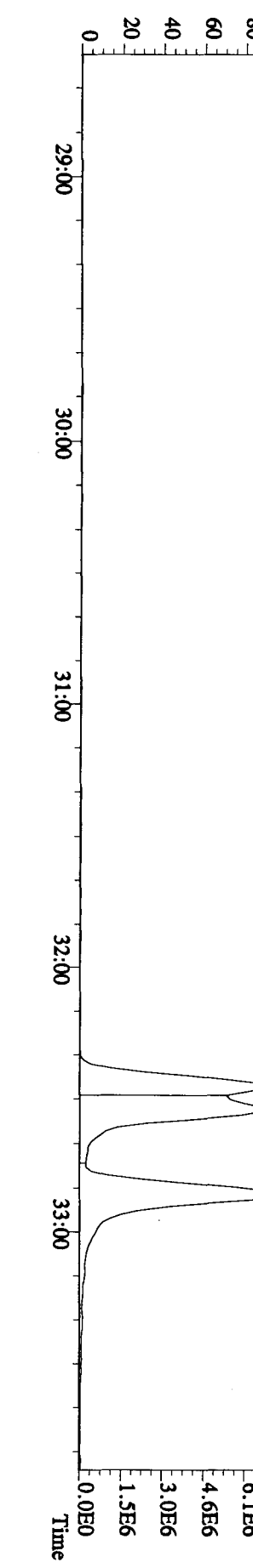
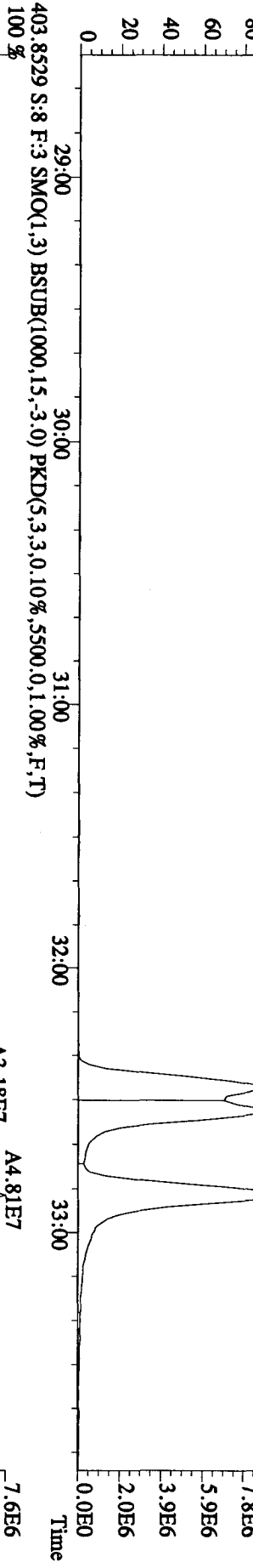
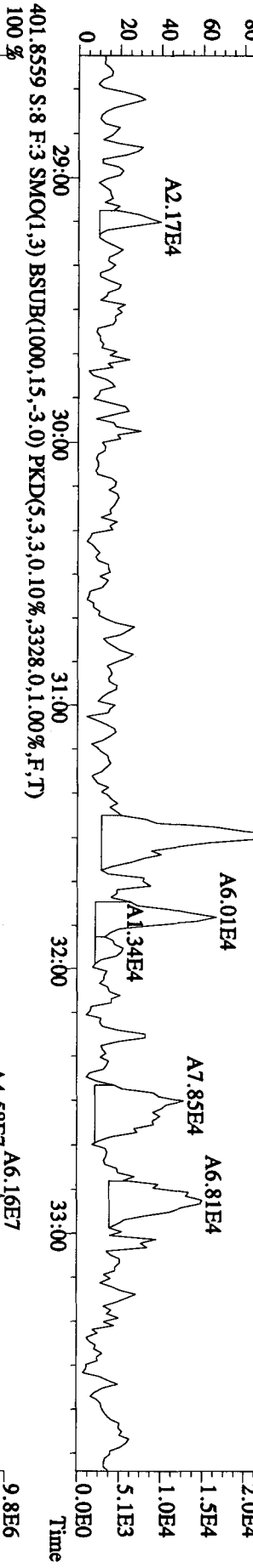
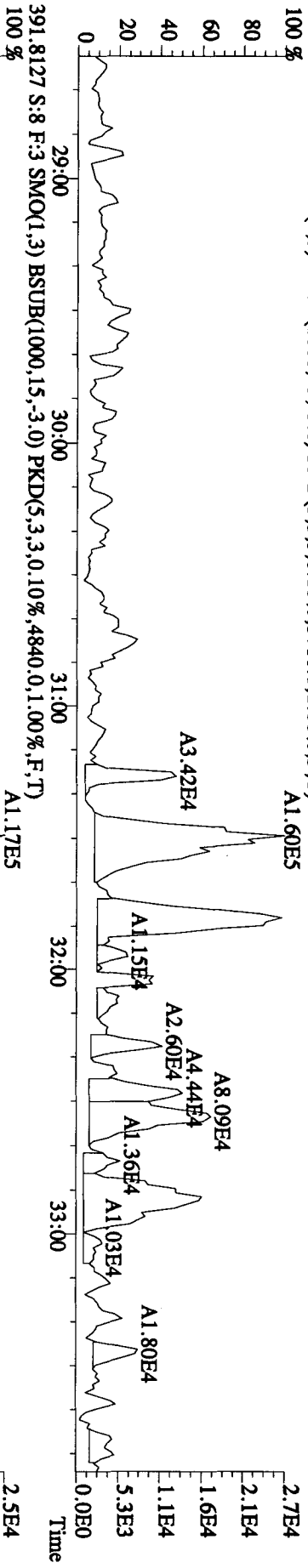
Manual Edit Codes

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

Analyst: AK Date: 1/7/10



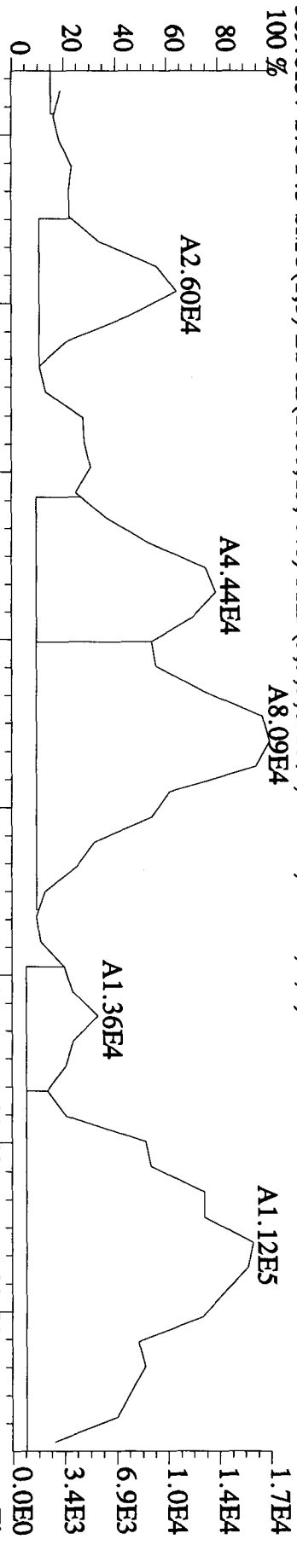
File:04JA10A1D5 #1-361 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ2LE-3-AC :G9L120491-8RX Exp:DIOXIN
 389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3716.0,1.00%,F,T)



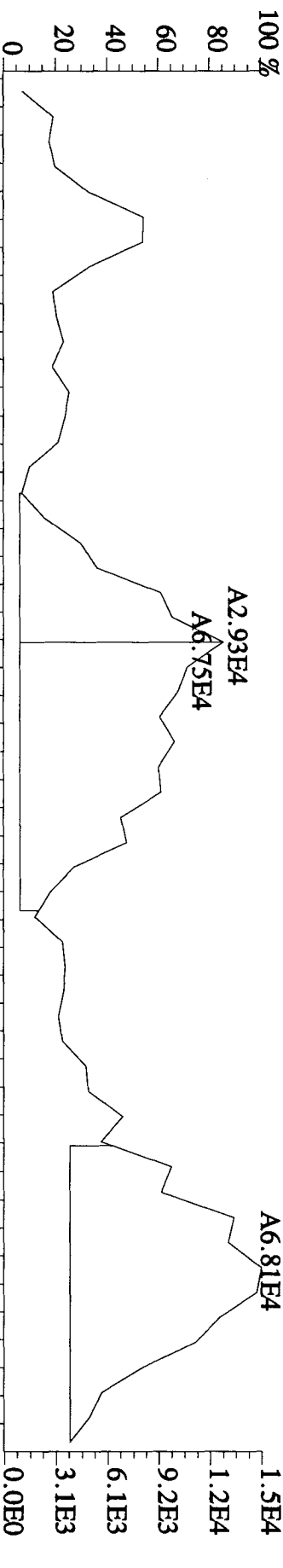
File: 04JA10A1D5 #1-361 Acq: 4-JAN-2010 19:15:25 GC EI + Voltage SIR 70SE

Sample#8 Text: LQ2LE-3-AC : G9L120491-8R Exp: DIOXIN

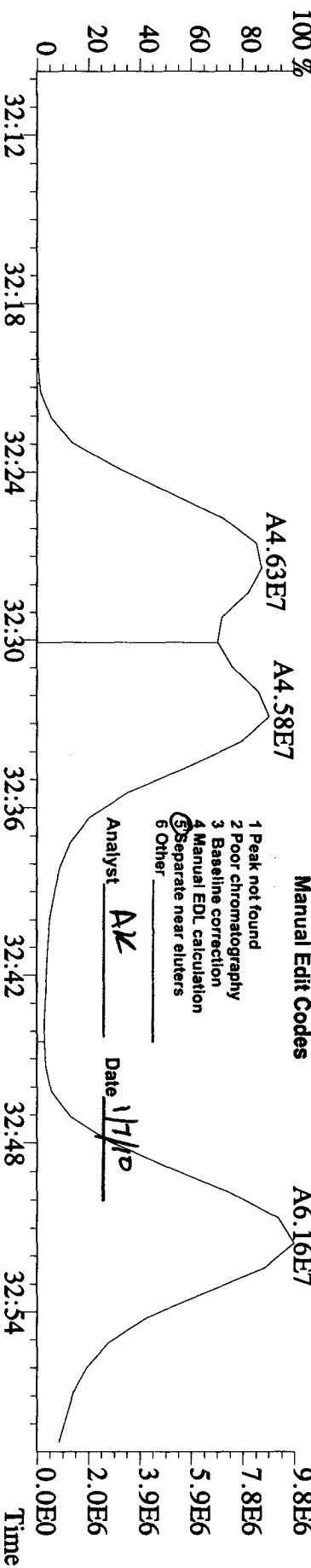
389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3716.0,1.00%,F,T)



391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4840.0,1.00%,F,T)



401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3328.0,1.00%,F,T)

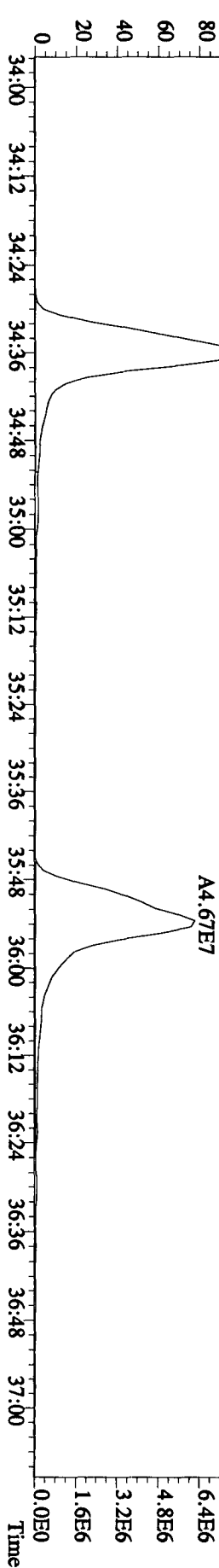
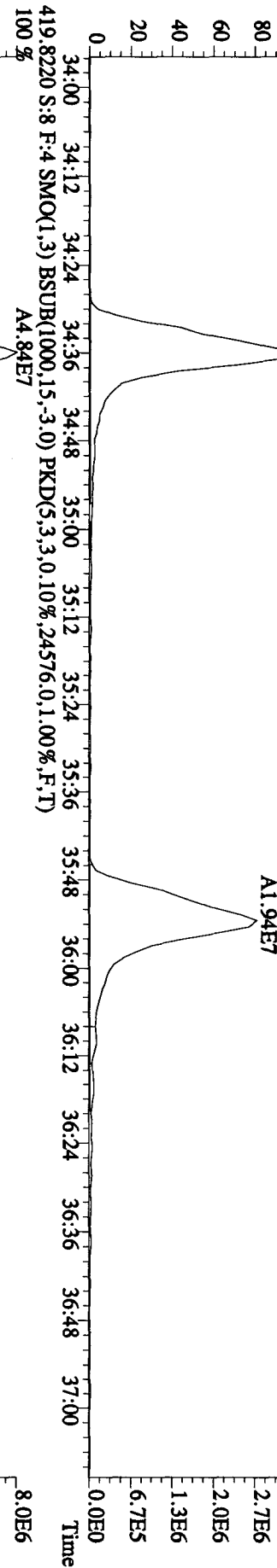
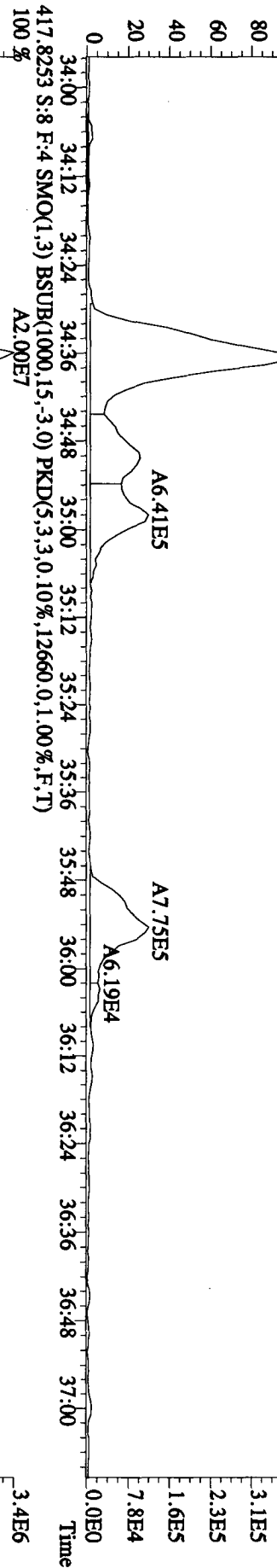
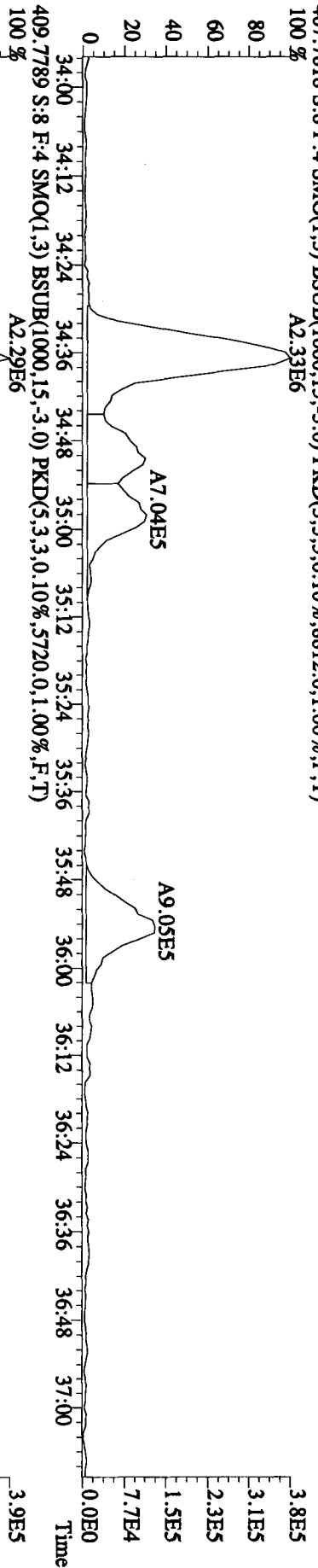


- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

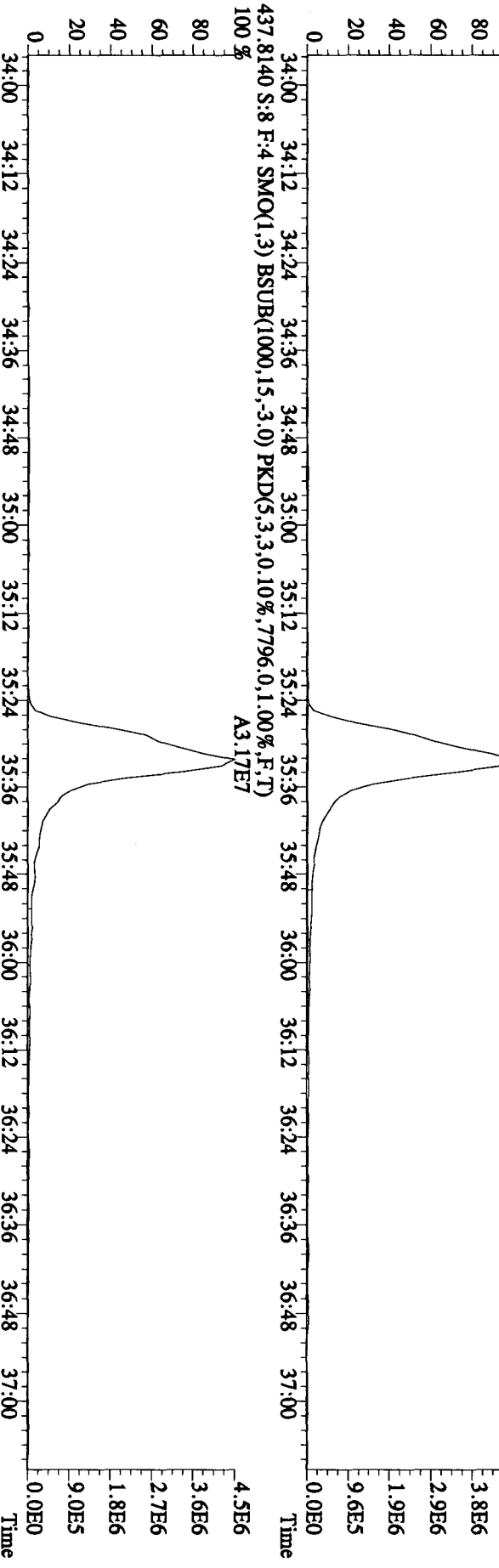
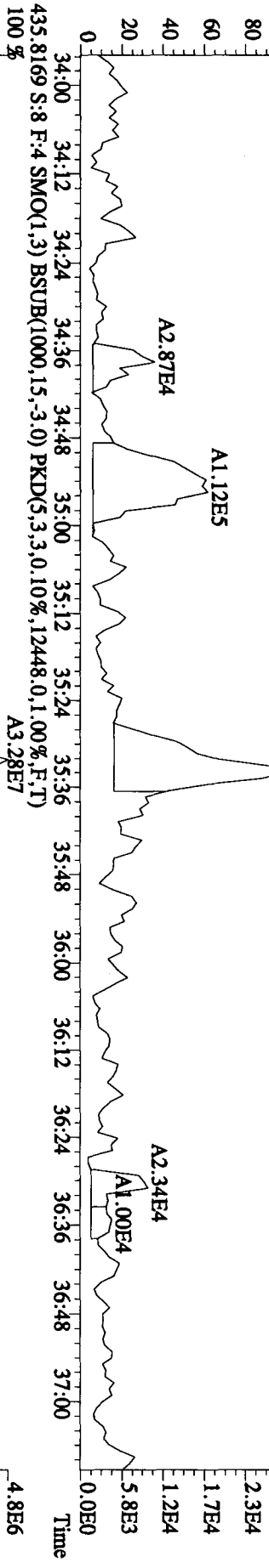
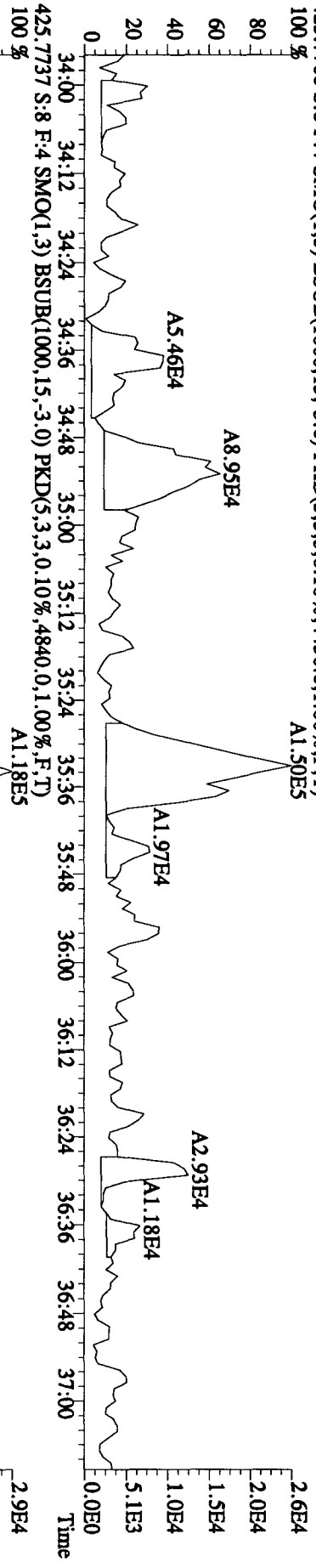
Analyst AZ Date 1/7/10

Manual Edit Codes

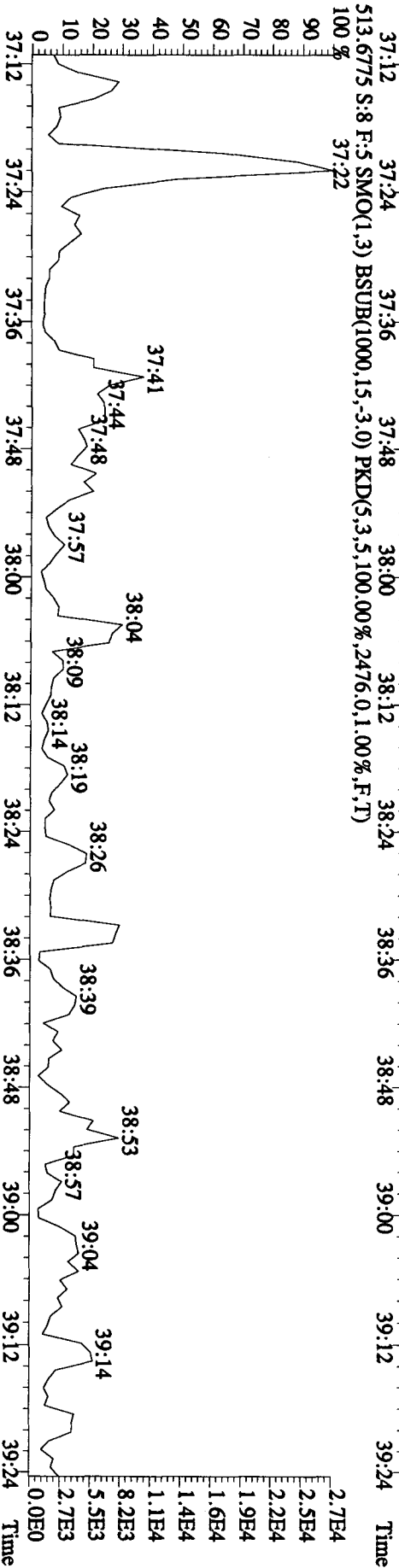
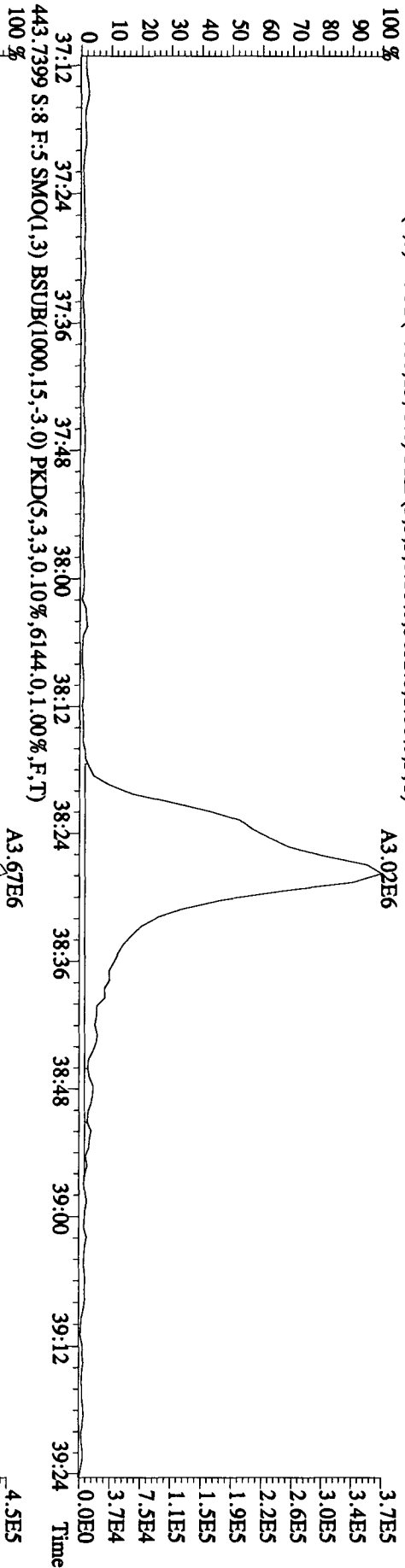
File:041A10A1D5 #1-228 Acq: 4-JAN-2010 19:15:25 GC EI + Voltage SIR 70SE
 Sample#8 Text:LQ2LE-3-AC :G9L120491-8RX Exp:DIOXIN
 407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8812.0,1.00%,F,T)
 100%



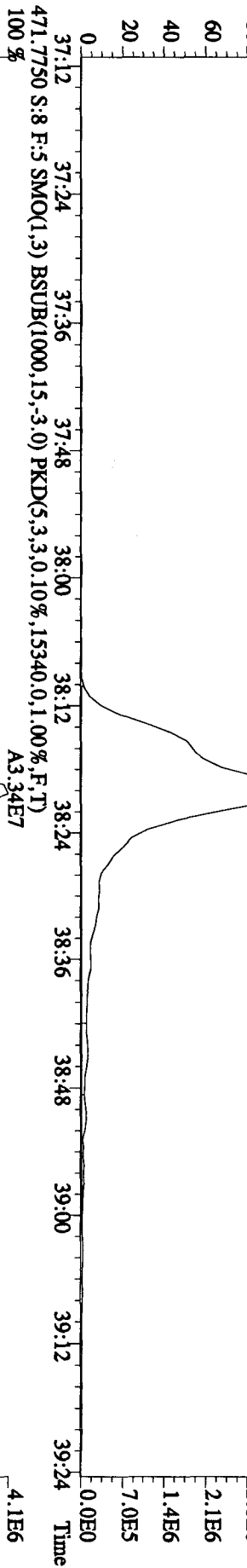
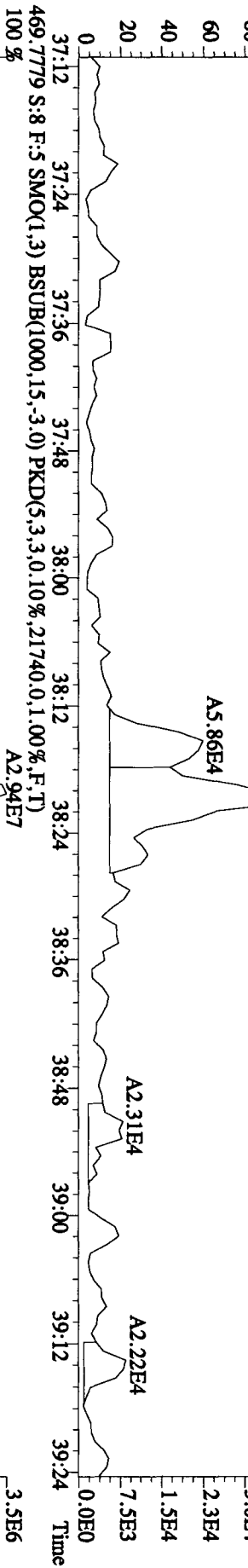
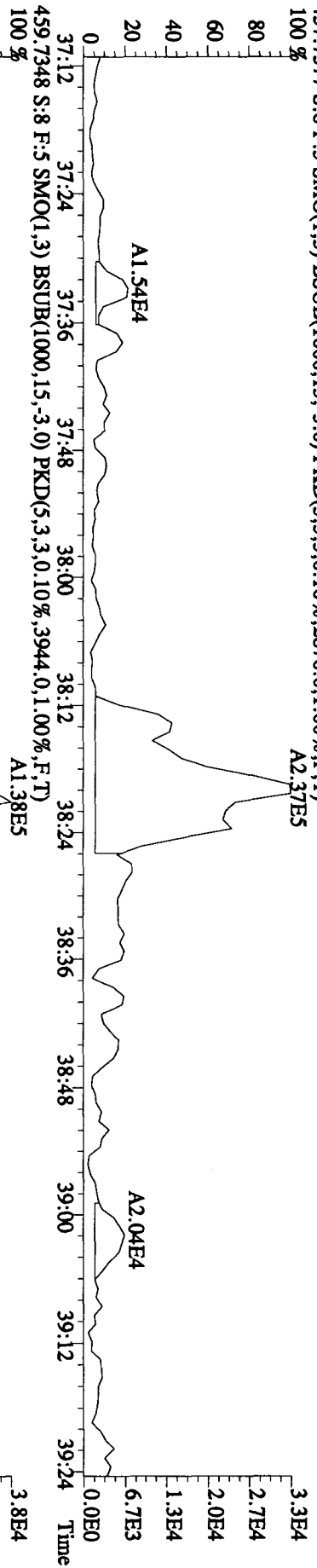
File:04JA10A1D5 #1-228 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ2LE-3-AC :G9L120491-8RX Exp:DI0XIN
 423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4456,0.1,00%,F,T)
 100 %



File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ2LE3-AC :G9L120491-8RX Exp:DIOXIN
 441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5632.0,1.00%,F,T)



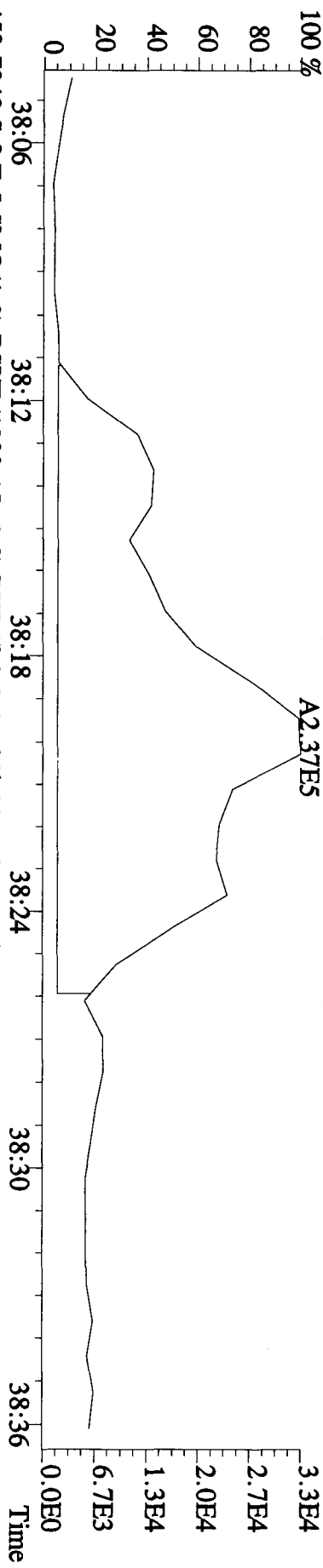
File:041A10A1D5 #1-161 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ2LE-3-AC :G9L120491-8RX Exp:DIOXIN
 457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2876,0.1,1.00%,F,T)



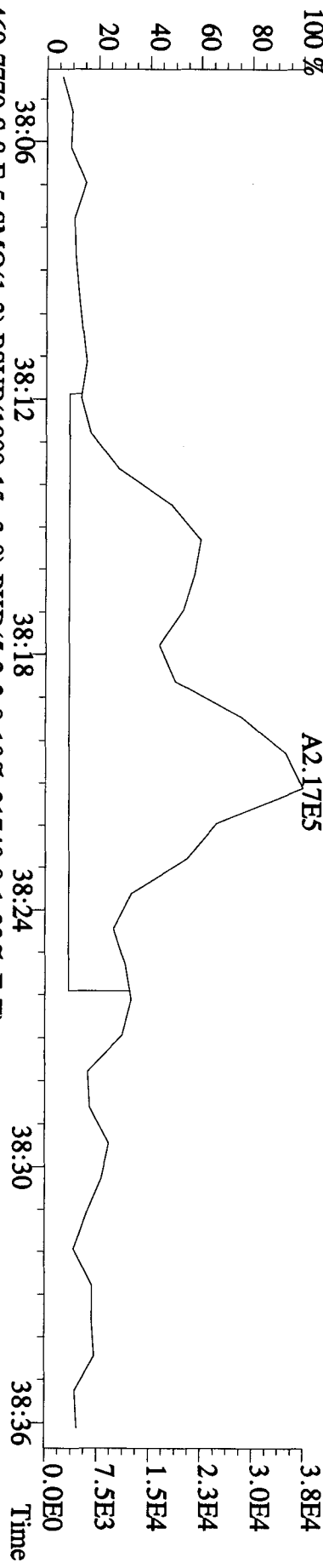
File:04JA10AID5 #1-161 Acq: 4-JAN-2010 19:15:25 GC EI + Voltage SIR 70SE

Sample#8 Text:LO2LE-3-AC :G9L120491-8R Exp:DIOXIN

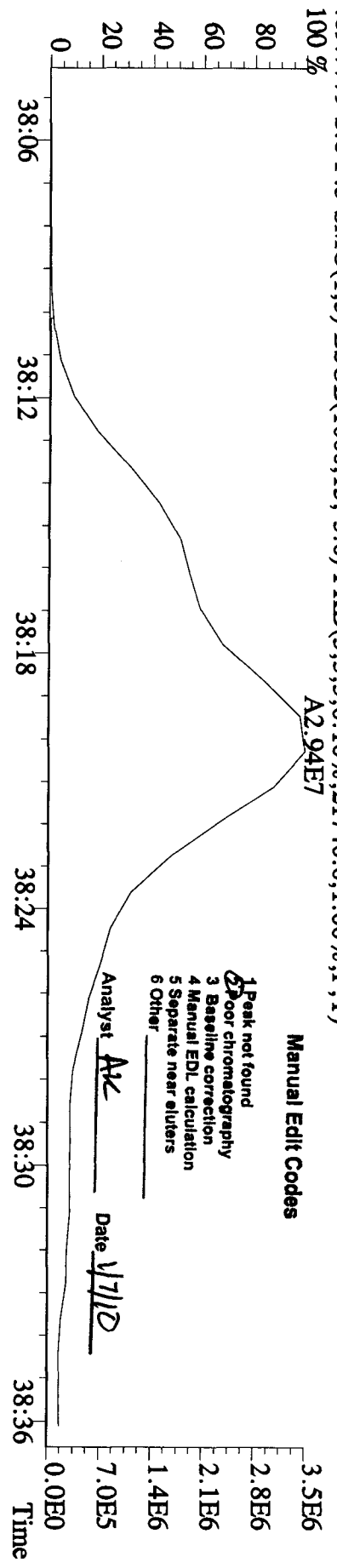
457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2876.0,1.00%,F,T) 100% A2.37E5



459.7348 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3944.0,1.00%,F,T) 100% A2.17E5



469.7779 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21740.0,1.00%,F,T) 100% A2.94E7

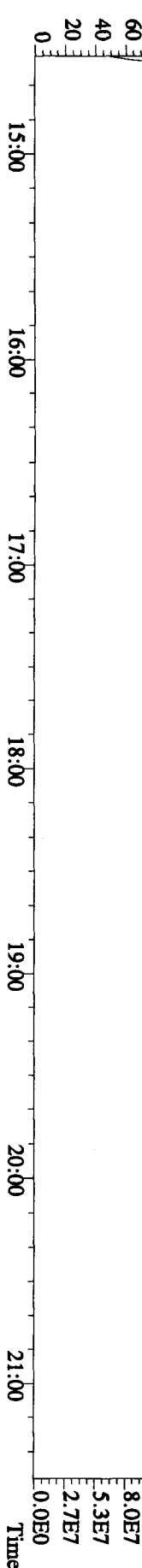
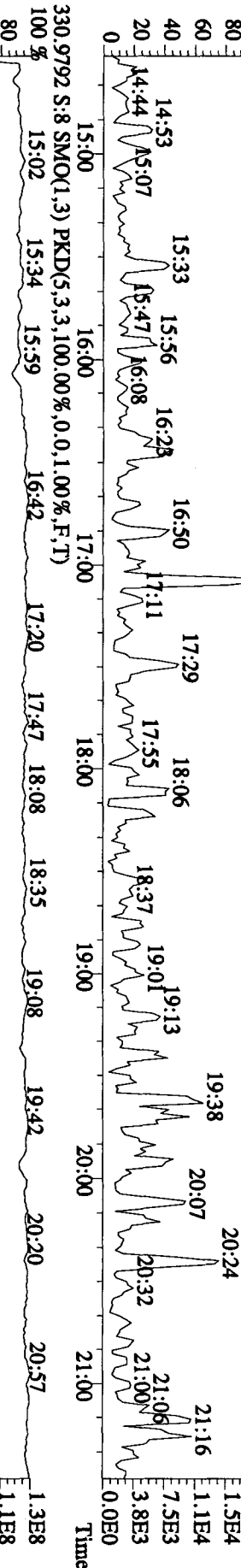
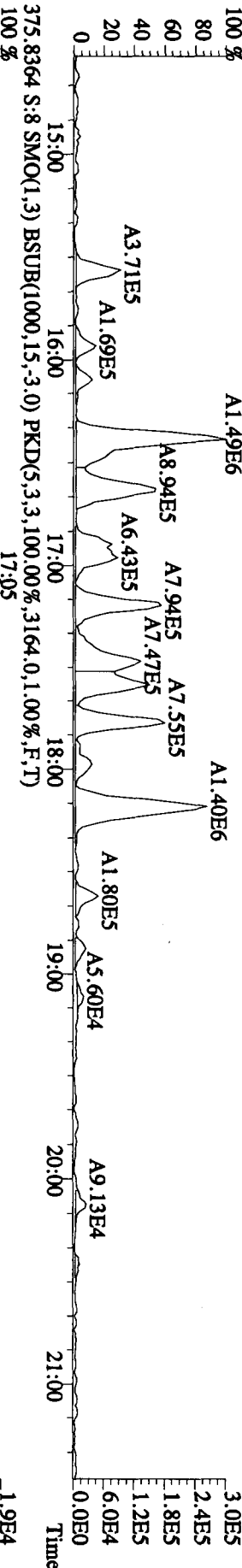
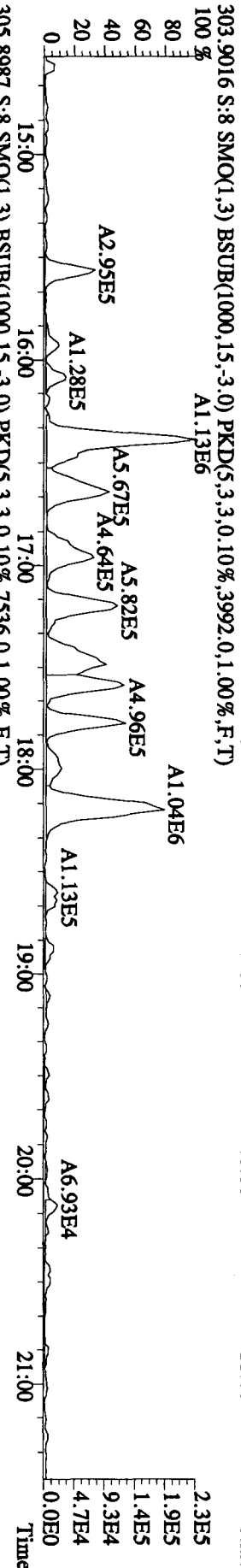
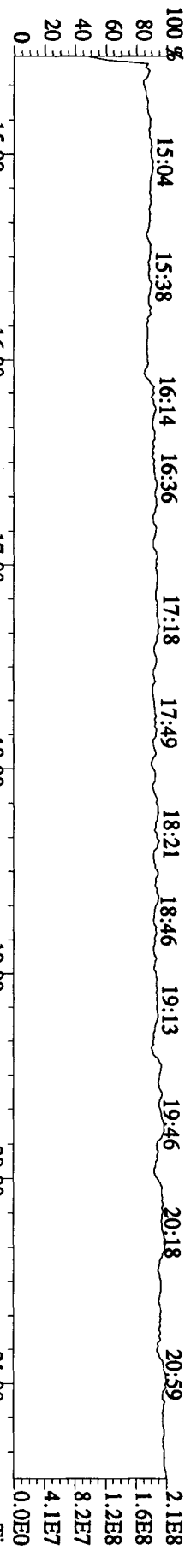


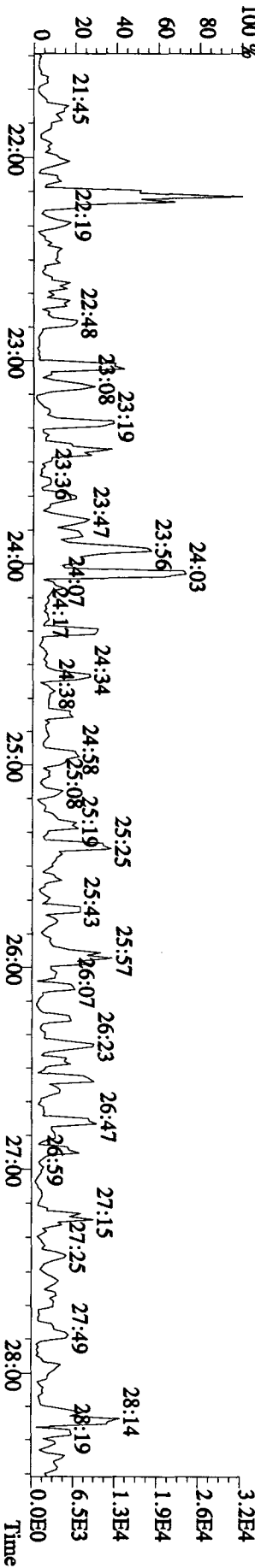
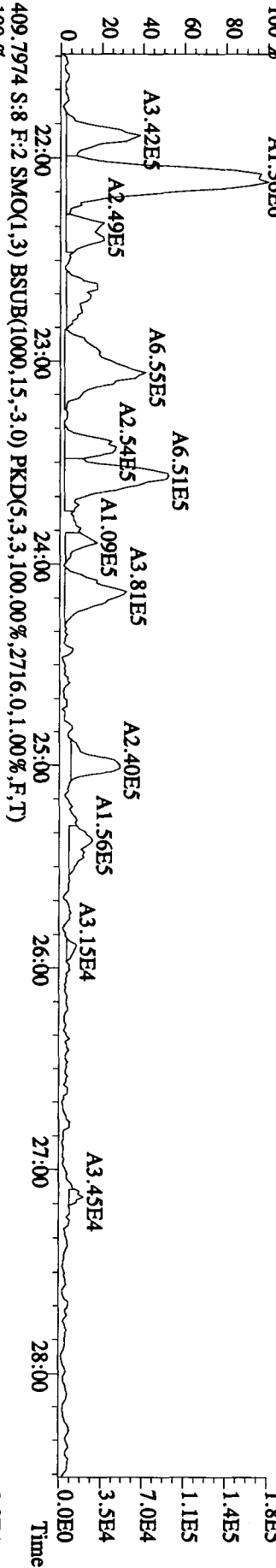
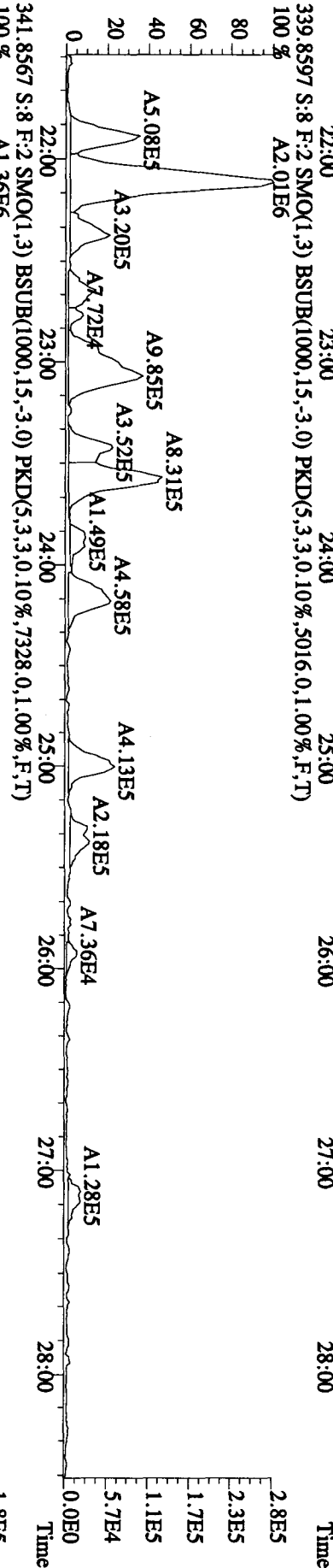
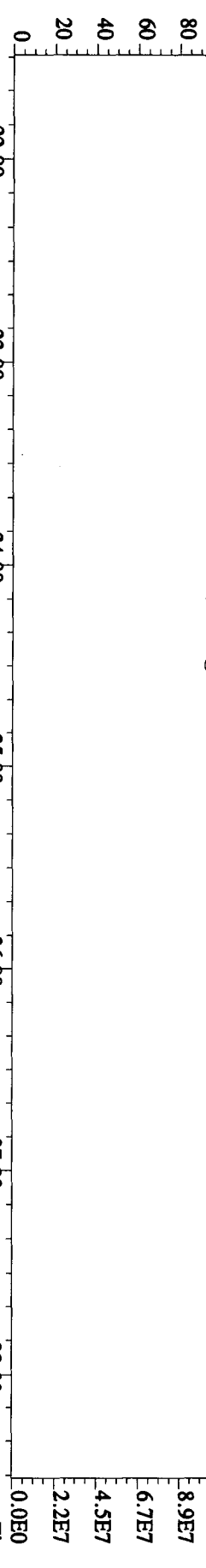
Manual Edit Codes

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

Analyst AK Date 1/11/10

File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LO2LE-3-AC :G9L120491-8RX Exp:DIOXIN
 292.9825 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

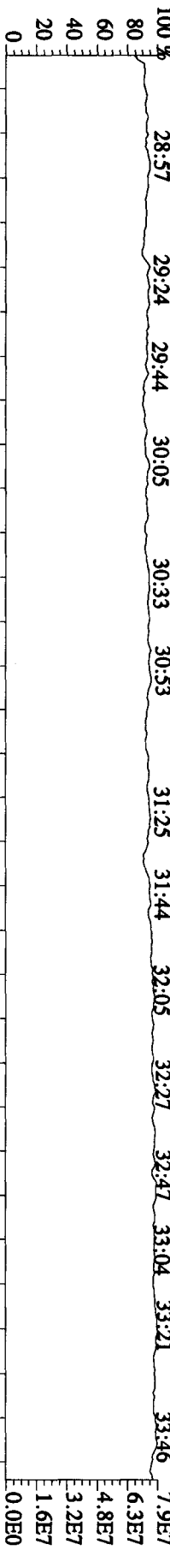




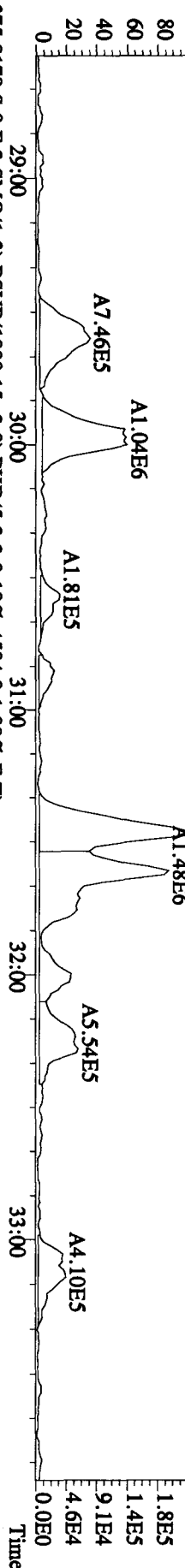
File:04JA10A1D5 #1-361 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE

Sample#8 Text:LQ2LE-3-AC :G9L120491-8RX Exp:DIOXIN

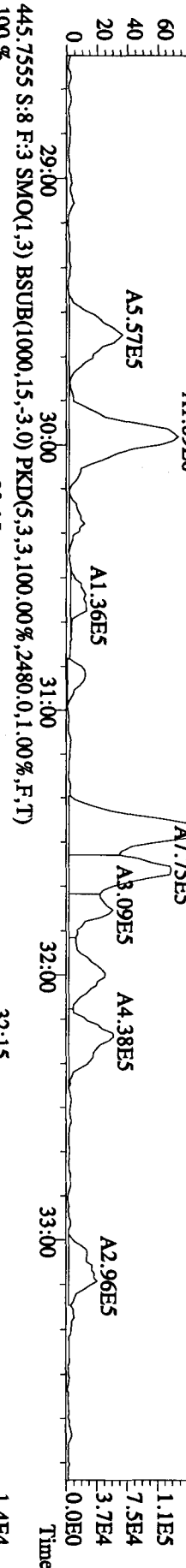
392.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



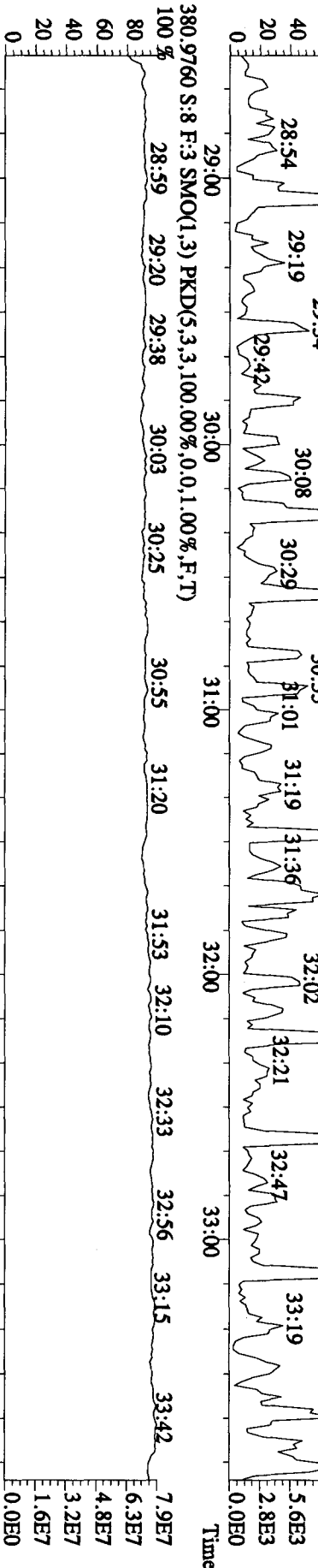
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6300,0.1,0.00%,F,T)



445.7555 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2480,0.1,0.00%,F,T)



380.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File:04JA10A1D5 #1-228 Acq: 4-JAN-2010 19:15:25 GC EI+ Voltage SIR 70SE

Sample#8 Text:LQ2LE-3-AC :G9L120491-8RX Exp :DIOXIN

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

100 % 34:10 34:36 34:50 35:06

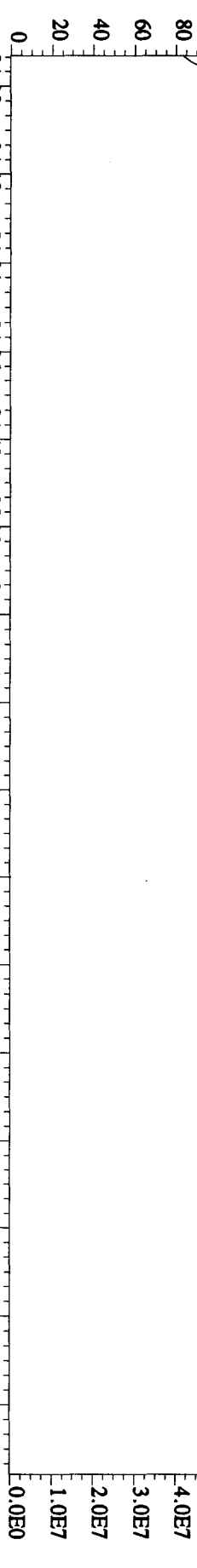
35:28 35:40

36:03

36:24 36:37

37:01

5.0E7



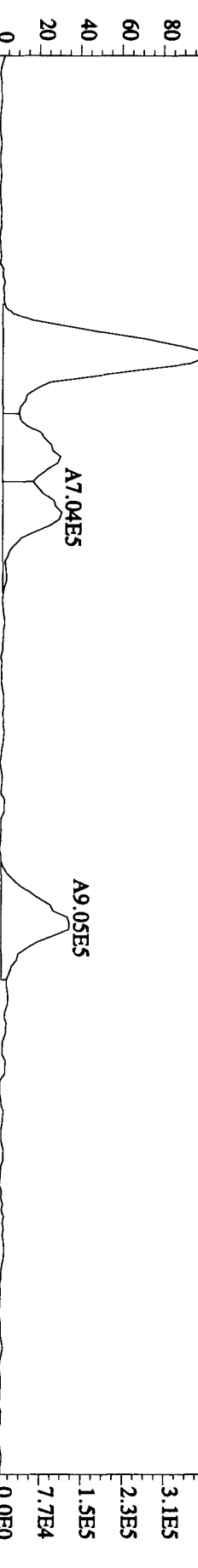
407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8812.0,1.00%,F,T)

100 %

3.8E5

3.1E5

2.3E5



409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5720.0,1.00%,F,T)

100 %

3.9E5

3.1E5

2.3E5



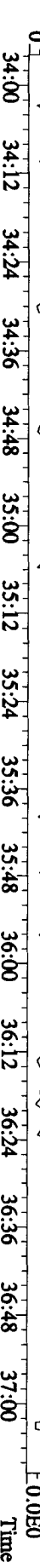
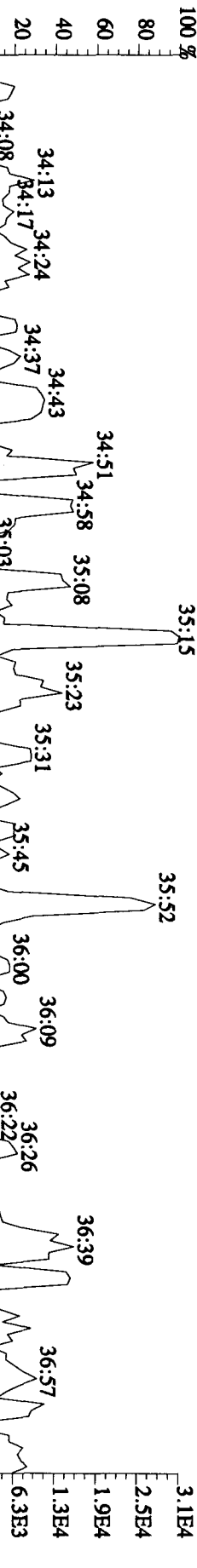
479.7165 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,6728.0,1.00%,F,T)

100 %

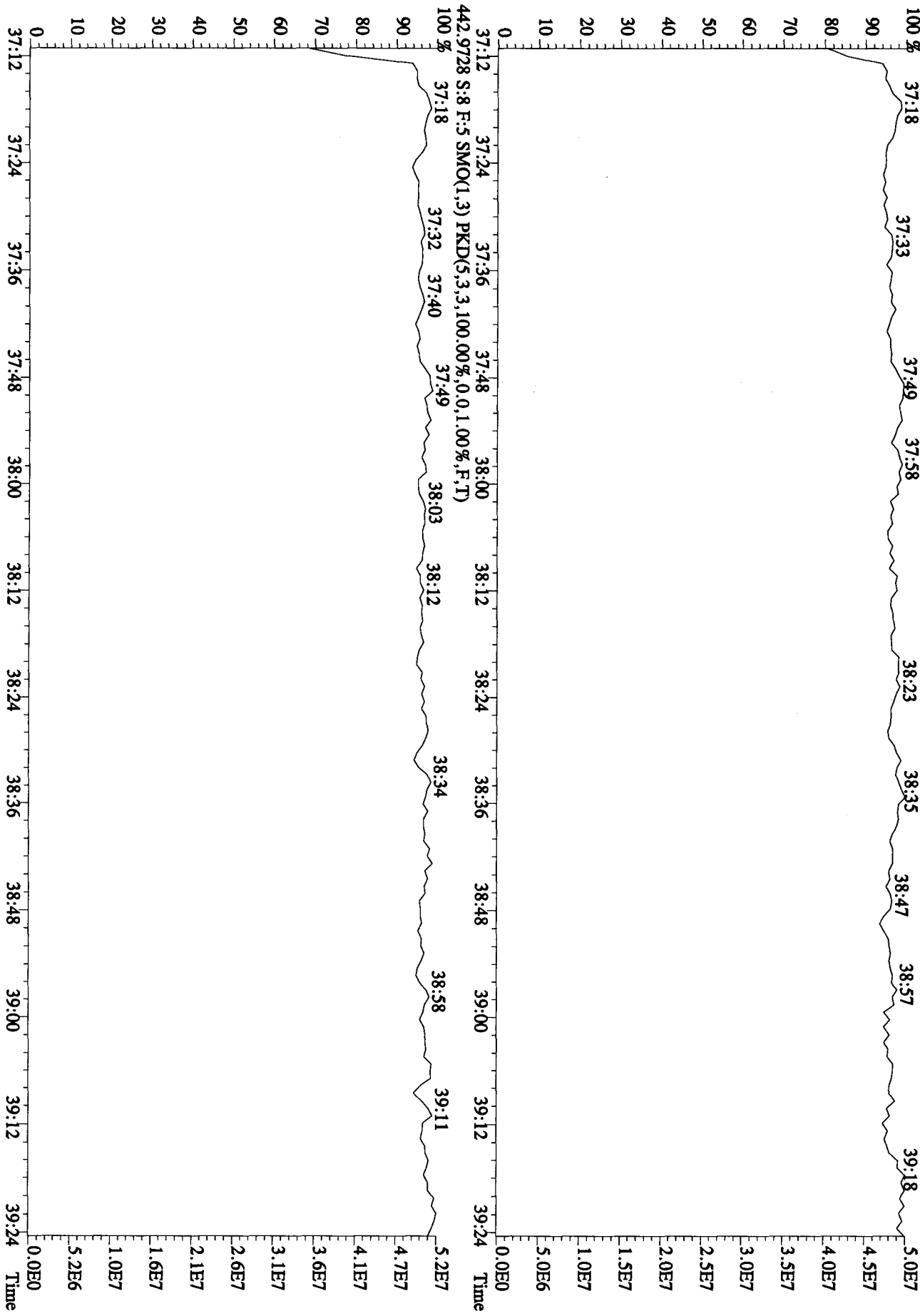
3.1E4

2.5E4

1.9E4



File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 19:15:25 GC EI + Voltage SIR 70SE
 Sample#8 Text:LO2LE-3-AC :G9L120491-8RX Exp.:DIOXIN
 454.9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)
 100 % 37:18 37:33 37:49 37:58

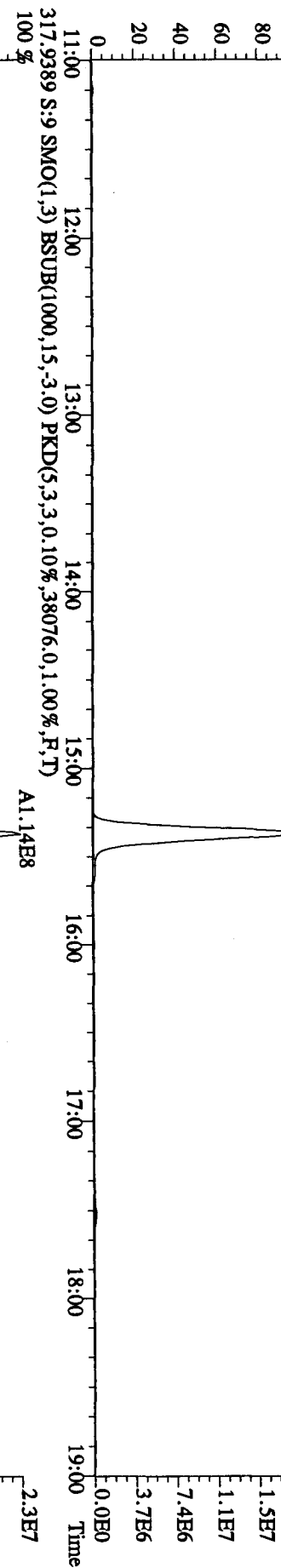
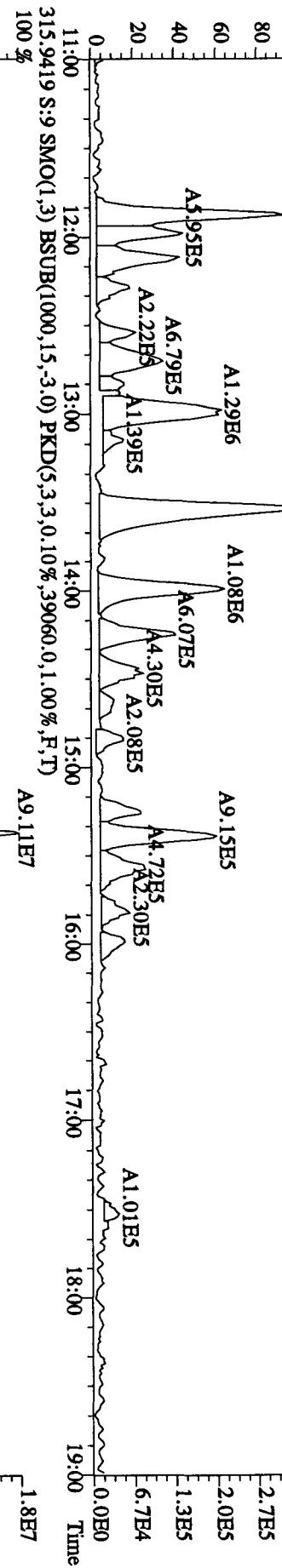
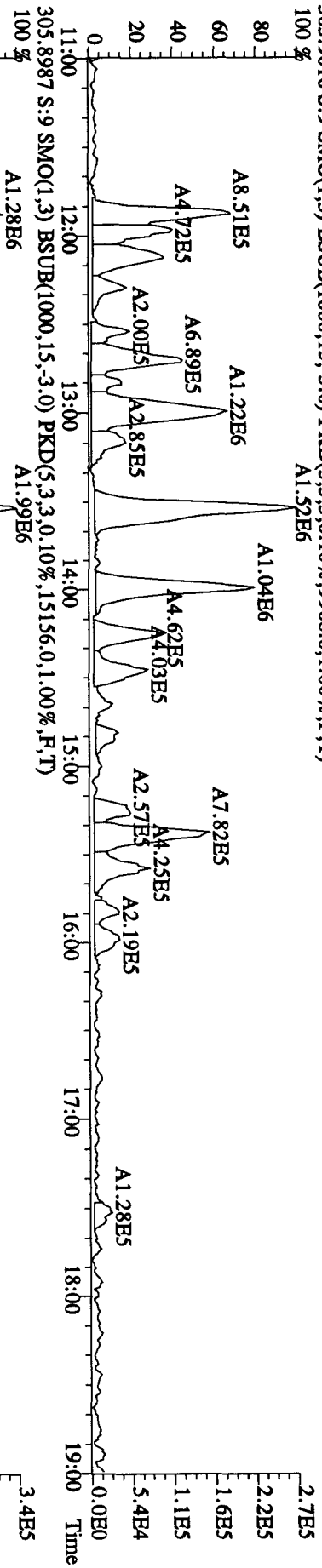


Run text: LQ2LE-3-AC Sample text: LQ2LE-3-AC :G9L120491-8RX
 Run #10 Filename: 05JA105D2 S: 9 I: 1 Results: 05JA105D2DB225
 Acquired: 5-JAN-10 15:09:11 Processed: 5-JAN-10 19:06:31
 Run: 05JA105D2 Analyte: DB225HRS Cal: DB2250104105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.0200µg

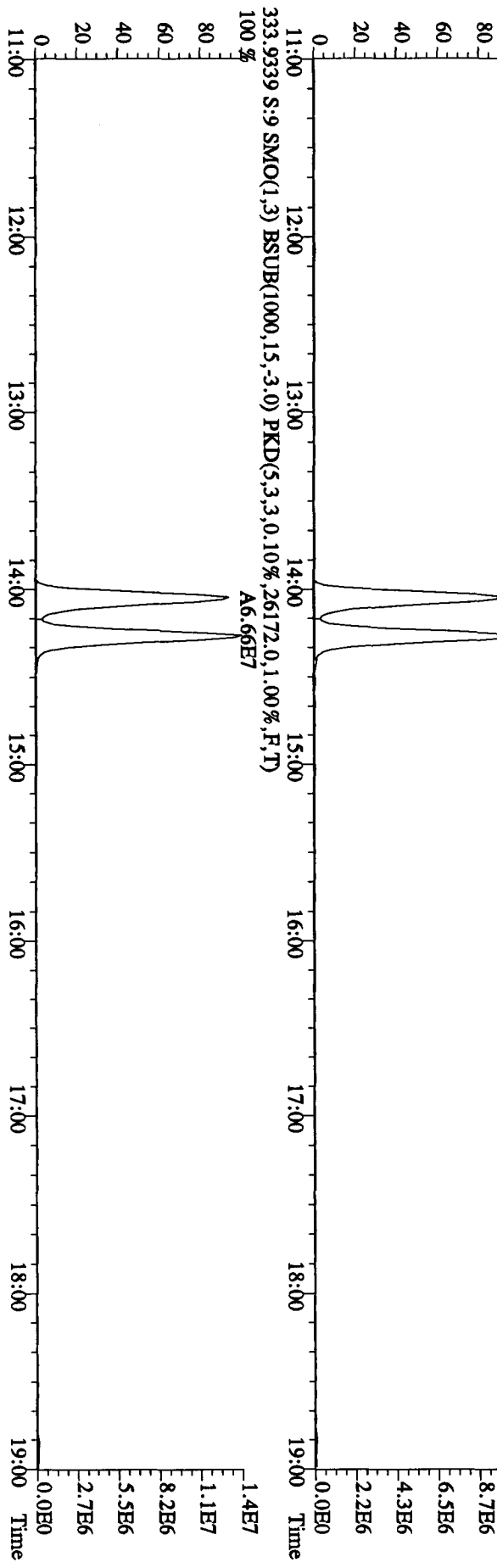
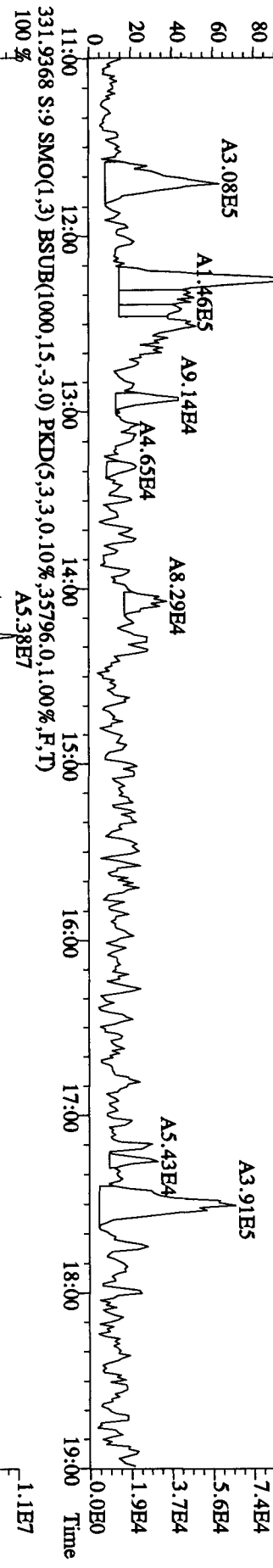
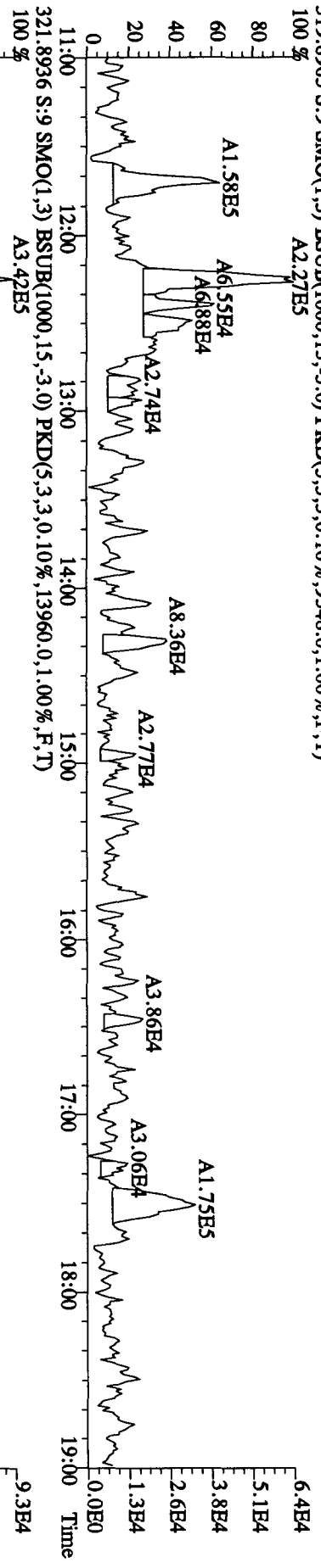
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	120404700	0.81 y	14:16	-	5.55	-	-	n
13C-2,3,7,8-TCDF	204733800	0.80 y	15:22	1.66	102.01	0.57	51.1	n
2,3,7,8-TCDF	1697505	0.85 y	15:22	1.01	✓ 1.63	0.36	-	n
13C-2,3,7,8-TCDD	115193800	0.79 y	14:03	0.95	100.38	0.80	50.3	n
2,3,7,8-TCDD	*	* n	NotFnd	1.18	*	0.52	-	n
37Cl-2,3,7,8-TCDD	146284200	1.00 y	14:04	2.07	58.63	0.20	73.4	n

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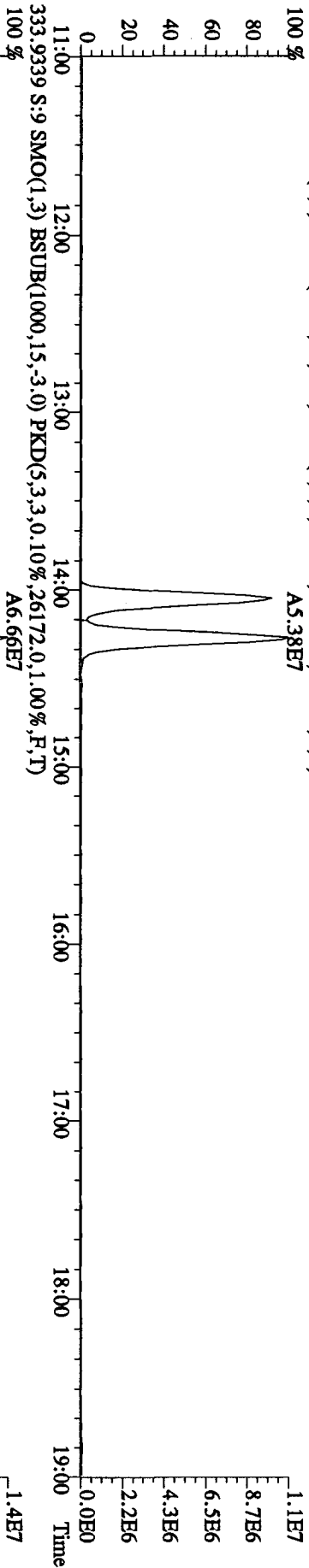
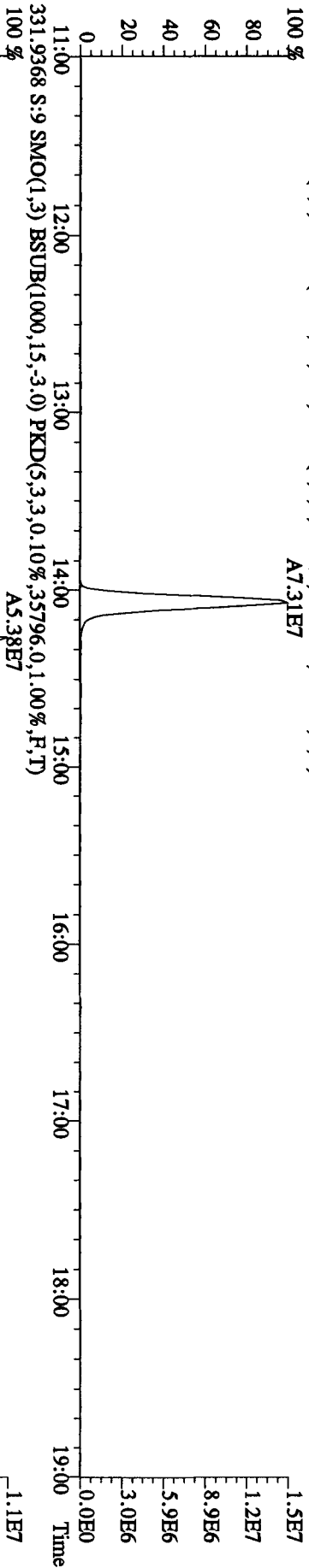
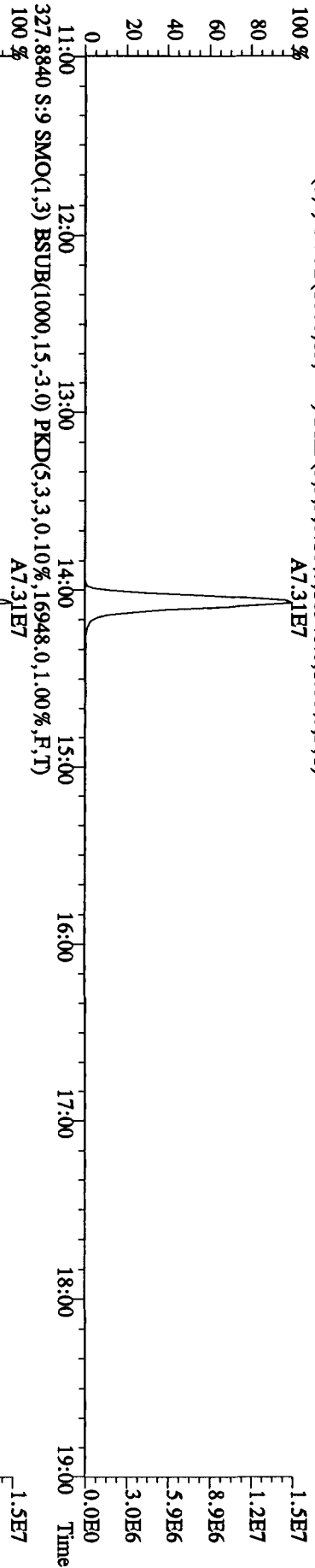
File:051A105D2 #1-1242 Acq: 5-JAN-2010 15:09:11 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LO2LE-3-AC :G9L120491-8RX Exp:DB225
 303.9016 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9968,0,1,00%,F,T)
 100%



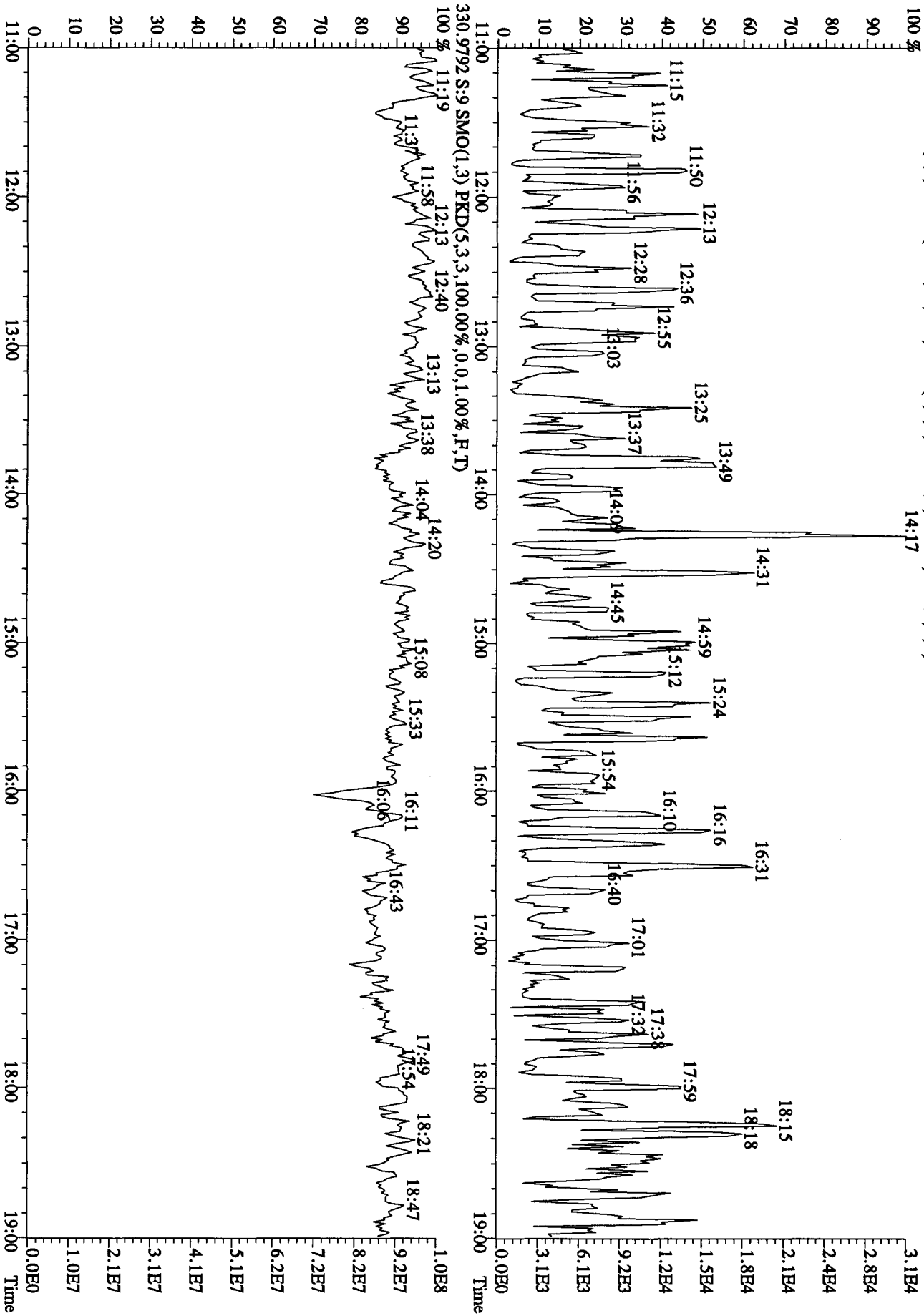
File:051A105D2 #1-1242 Acq: 5-JAN-2010 15:09:11 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LQ2LE-3-AC :G9L120491-8RX Exp:DB225
 319.8965 S:9 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,9548.0,1.00%,F,T)
 100 % A2.27E5



File:051A105D2 #1-1242 Acq: 5-JAN-2010 15:09:11 GC EI+ Voltage SIR 70SE
Sample#9 Text:LQ2LB-3-AC :G9L120491-8RX Exp:DB225
327.8840 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,16948,0,1,00%,F,T)
100 % A7.31E7



File:051A105D2 #1-1242 Acq: 5-JAN-2010 15:09:11 GC EI+ Voltage SIR 70SE
 Sample#9 Text:1Q2LE3-AC :G9L120491-8RX Exp:DB225
 375.8364 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,.3464,0,1,00%,F,T)
 100%

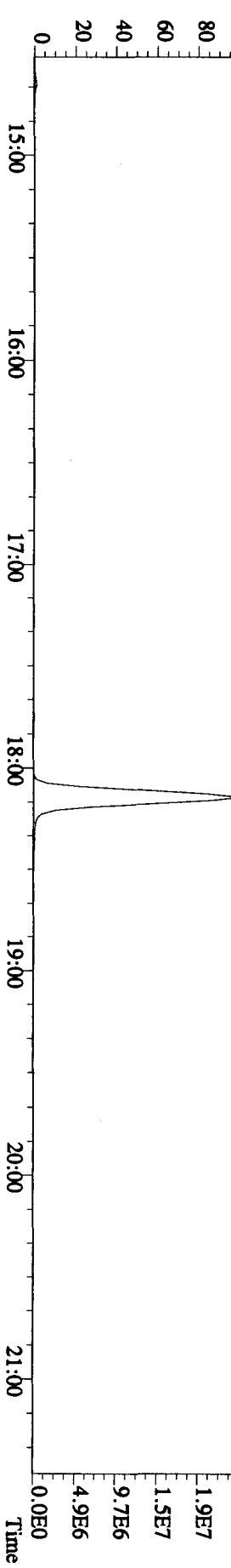
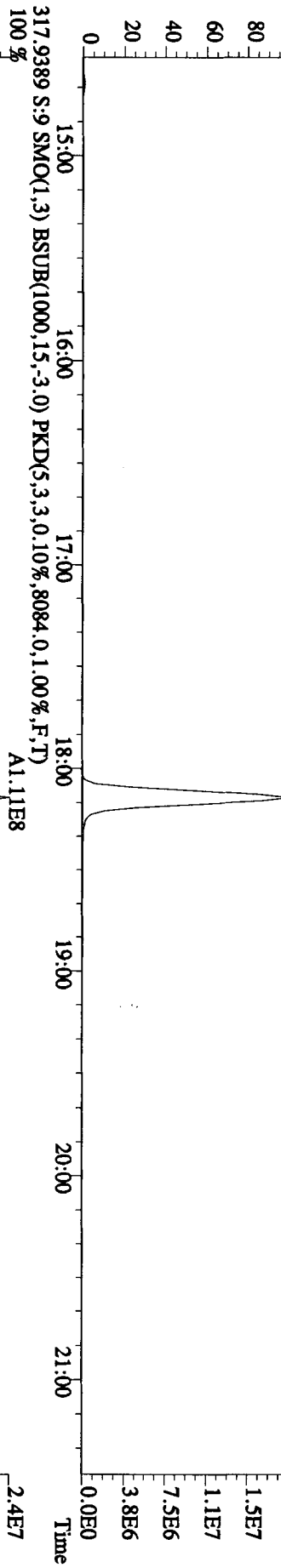
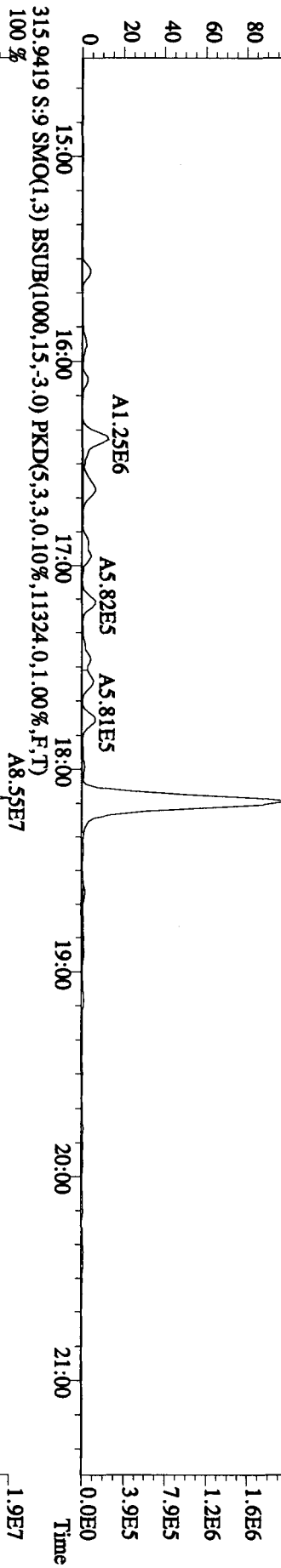
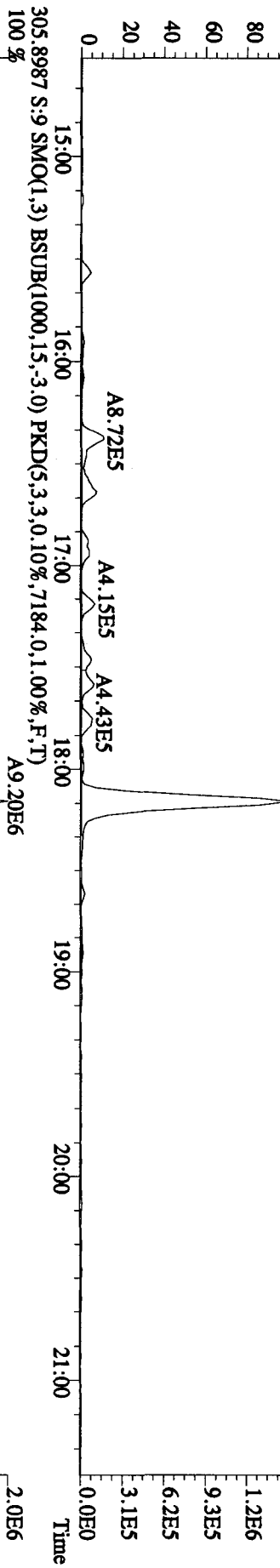


Run text: LQ2LE-1-AF Sample text: LQ2LE-1-AF :G9L120491-8S
 Run #13 Filename: 04JA10A1D5 S: 9 I: 1 Results: 04JA10A1D58290
 Acquired: 4-JAN-10 19:57:13 Processed: 5-JAN-10 07:51:41
 Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.0800g

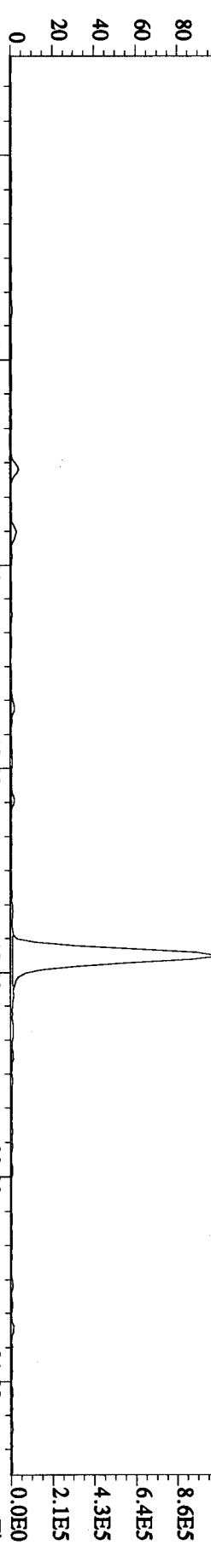
AK 1/7/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	153442600	0.79 y	18:42	-	4.89	-	-	n
13C-2,3,7,8-TCDF	196021700	0.77 y	18:08	1.57	80.93	0.11	40.8	n
2,3,7,8-TCDF	16393690	0.78 y	18:09	0.86	19.30	0.19	-	n
Total TCDF	26396348	0.78 y	15:34	0.86	31.07	0.19	-	n
13C-2,3,7,8-TCDD	144861700	0.78 y	18:54	0.99	94.29	0.35	47.5	n
2,3,7,8-TCDD	12452080	0.73 y	18:55	0.93	18.26	0.27	-	n
Total TCDD	13230110	0.67 y	16:32	0.93	19.41	0.27	-	n
37Cl-2,3,7,8-TCDD	173821400	1.00 y	18:55	2.22	50.67	0.04	63.8	n
13C-1,2,3,7,8-PeCDF	145241400	1.62 y	23:32	1.07	87.53	0.12	44.1	n
1,2,3,7,8-PeCDF	70707900	1.59 y	23:34	1.00	96.59	0.45	-	n
2,3,4,7,8-PeCDF	68788600	1.61 y	24:59	0.94	100.12	0.48	-	n
Total F2 PeCDF	146506041	1.87 n	21:52	0.97	206.58	0.46	-	n
Total F1 PeCDF	1090031	0.47 n	16:04	0.97	1.54	0.29	-	n
13C-1,2,3,7,8-PeCDD	93817600	1.64 y	25:44	0.67	91.03	0.14	45.9	n
1,2,3,7,8-PeCDD	44874000	1.56 y	25:46	0.93	102.14	0.45	-	n
Total PeCDD	45355869	0.97 n	22:16	0.93	103.24	0.45	-	n
13C-1,2,3,7,8,9-HxCDD	126213000	1.22 y	32:51	-	4.56	-	-	n
13C-1,2,3,4,7,8-HxCDF	97141000	0.49 y	31:26	0.89	85.52	0.17	43.1	n
1,2,3,4,7,8-HxCDF	56464300	1.24 y	31:28	1.20	96.18	1.16	-	n
1,2,3,6,7,8-HxCDF	66760200	1.25 y	31:36	1.37	99.44	1.01	-	n
2,3,4,6,7,8-HxCDF	58669500	1.23 y	32:17	1.24	96.48	1.12	-	n
1,2,3,7,8,9-HxCDF	58422500	1.24 y	33:04	1.33	89.98	1.04	-	n
Total HxCDF	242032316	1.21 y	29:33	1.28	384.82	1.08	-	n
13C-1,2,3,6,7,8-HxCDD	82003600	1.34 y	32:32	0.73	88.05	0.14	44.4	n
1,2,3,4,7,8-HxCDD	42186500	1.24 y	32:28	0.97	105.23	0.31	-	n
1,2,3,6,7,8-HxCDD	44604800	1.27 y	32:33	1.06	101.97	0.28	-	n
1,2,3,7,8,9-HxCDD	47804500	1.27 y	32:52	1.28	90.70	0.23	-	n
Total HxCDD	135442823	0.99 n	31:30	1.10	299.77	0.27	-	n
13C-1,2,3,4,6,7,8-HpCDF	62747800	0.43 y	34:36	0.86	57.34	0.84	28.9	n
1,2,3,4,6,7,8-HpCDF	42450700	1.07 y	34:36	1.29	104.33	1.11	-	n
1,2,3,4,7,8,9-HpCDF	42262400	1.05 y	35:54	1.14	117.70	1.26	-	n
Total HpCDF	86146286	1.07 y	34:36	1.21	225.78	1.18	-	n
13C-1,2,3,4,6,7,8-HpCDD	57242200	1.08 y	35:32	0.75	59.82	0.40	30.1	n
1,2,3,4,6,7,8-HpCDD	28099700	1.12 y	35:34	1.00	97.61	1.22	-	n
Total HpCDD	28255700	1.13 y	34:55	1.00	98.15	1.22	-	n
13C-OCDD	56279100	0.88 y	38:20	0.56	78.37	0.68	19.8	n
OCDF	49180100	0.89 y	38:27	1.44	241.26	2.16	-	n
OCDD	30936700	0.87 y	38:21	1.11	196.60	2.97	-	n

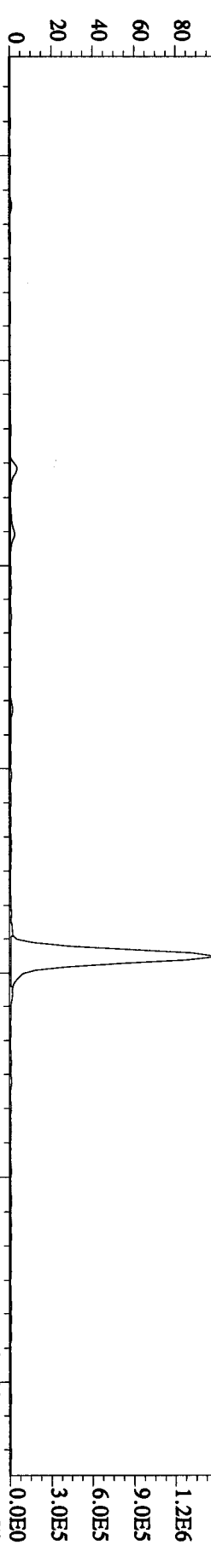
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LQ2LE-1-AF :G9L120491-8S Exp:DIOXIN
 303.9016 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4888,0,1,00%,F,T)
 100 %



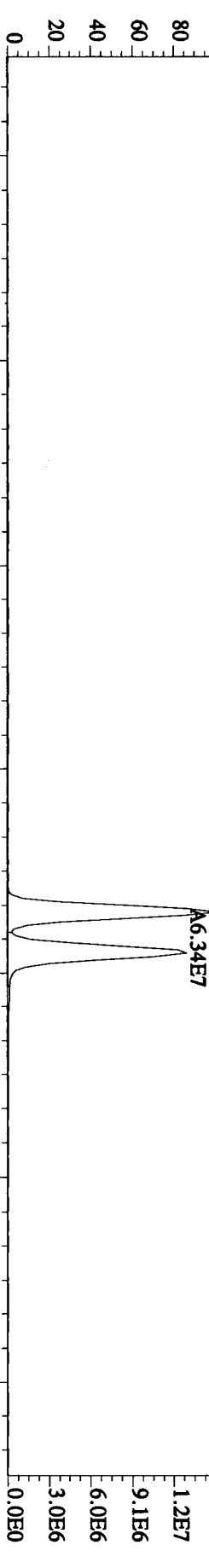
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE
 Sample#9 Text:1Q2LE-1-AF :G9L120491-8S Exp:DIOXIN
 319.8965 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.5524,0.1,0.00%,F,T)
 100 %



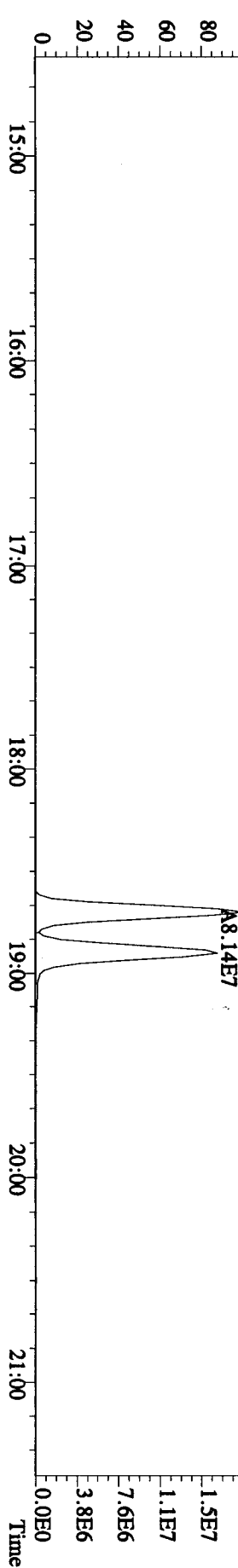
321.8936 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.6960,0.1,0.00%,F,T)
 100 %



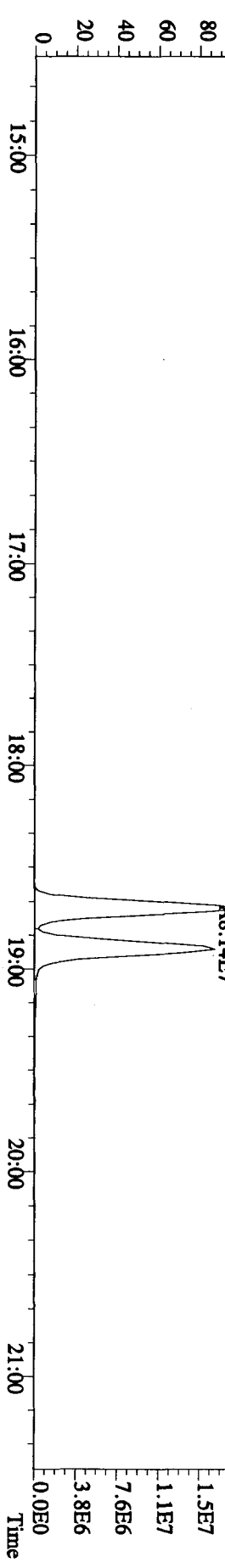
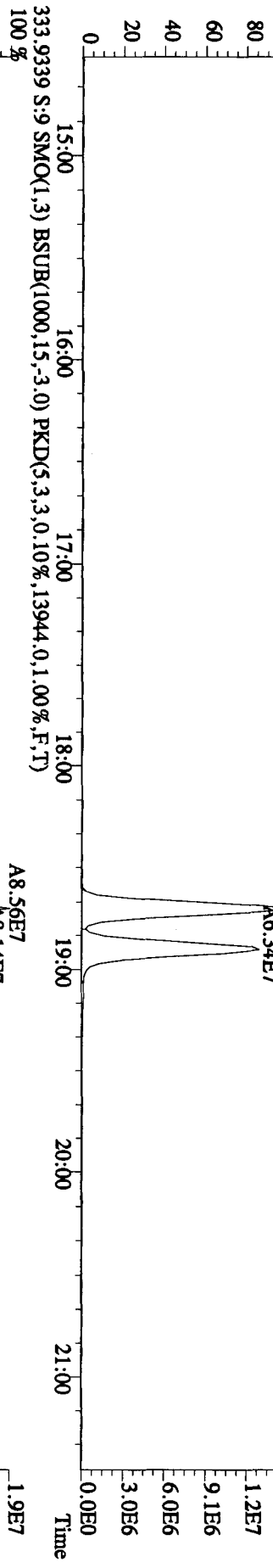
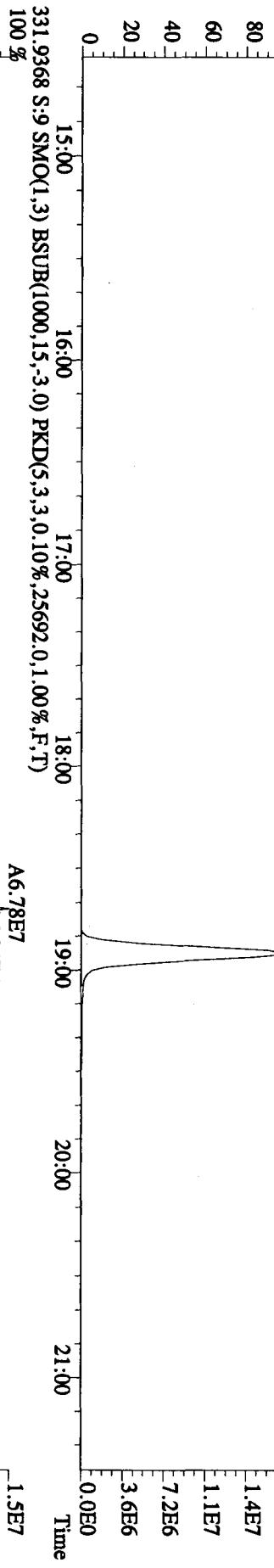
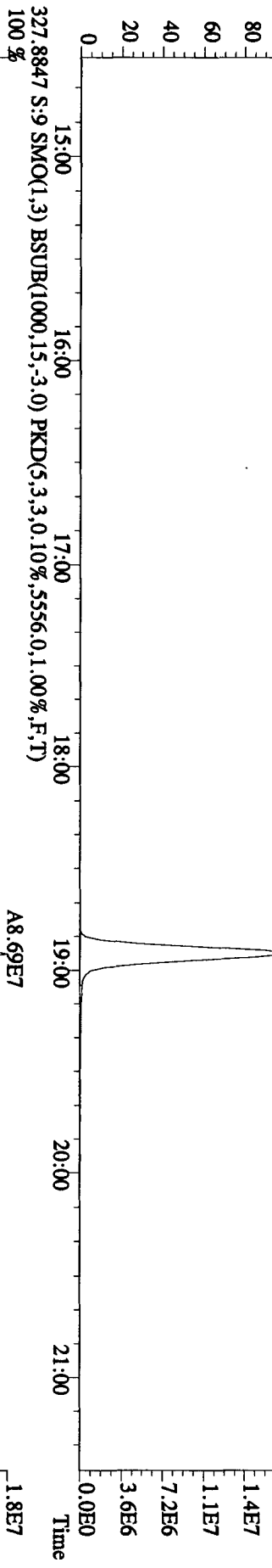
331.9368 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.25692,0.1,0.00%,F,T)
 100 %

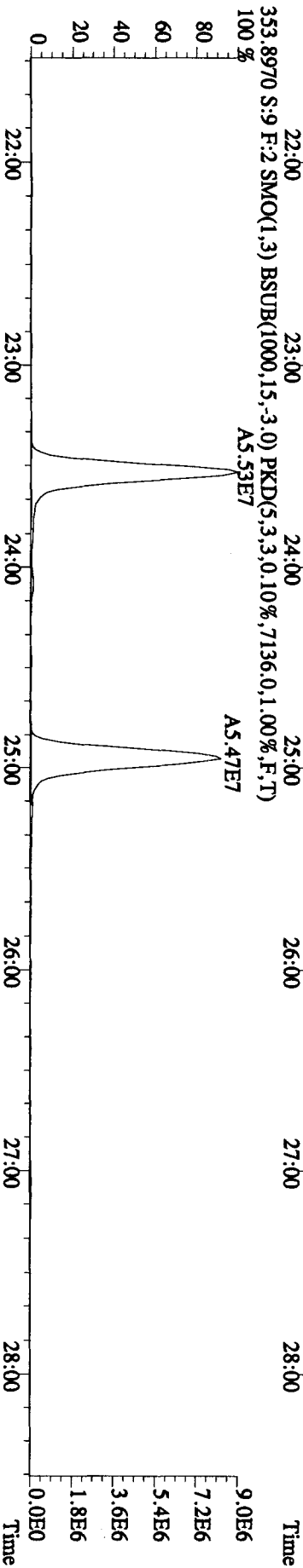
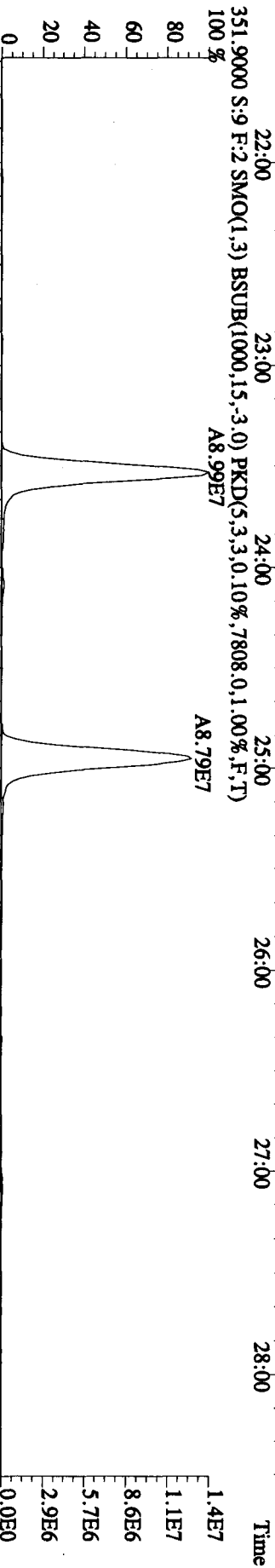
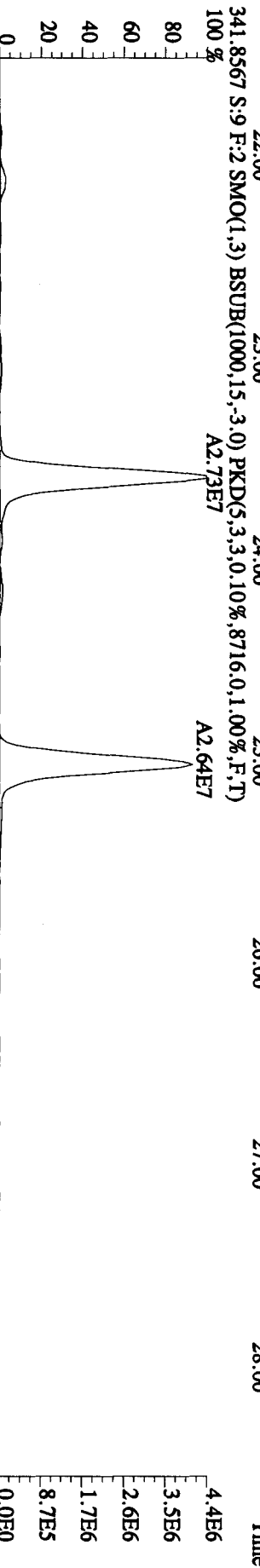
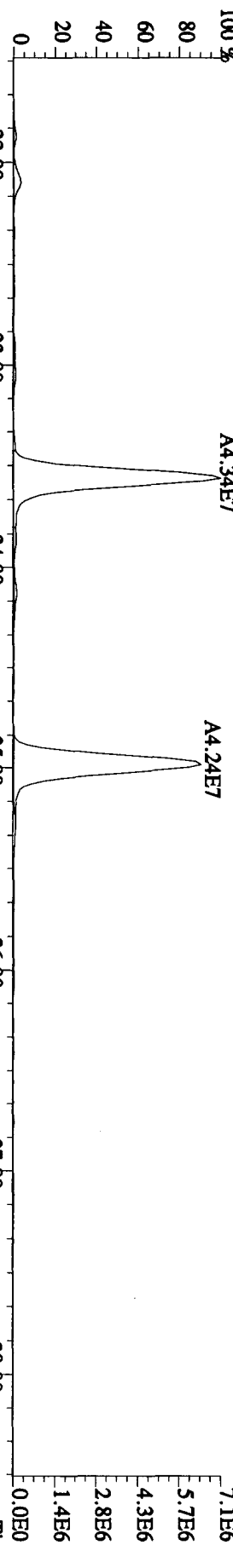


333.9339 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.13944,0.1,0.00%,F,T)
 100 %

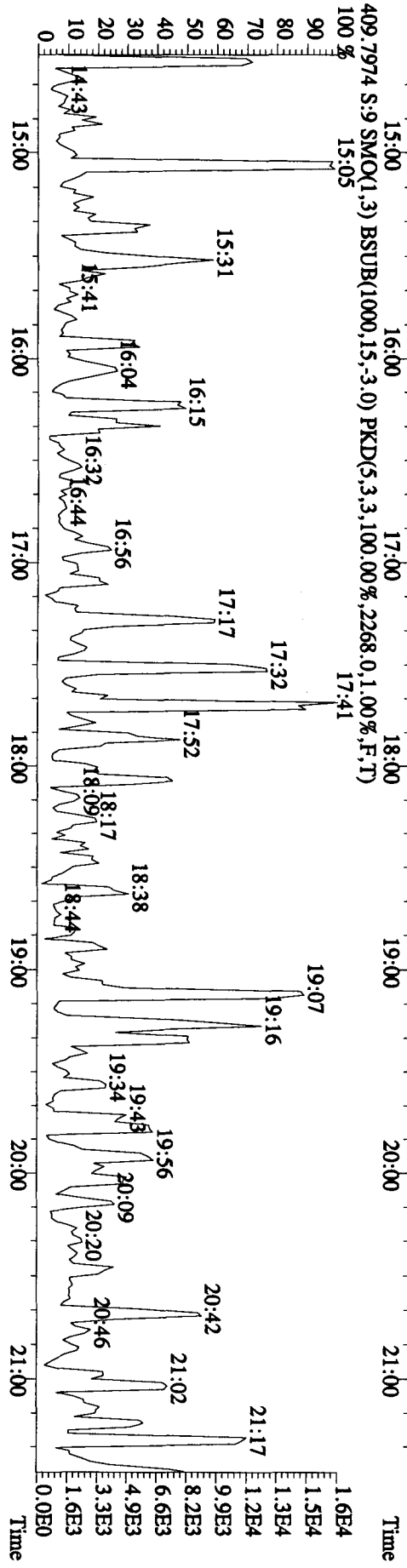
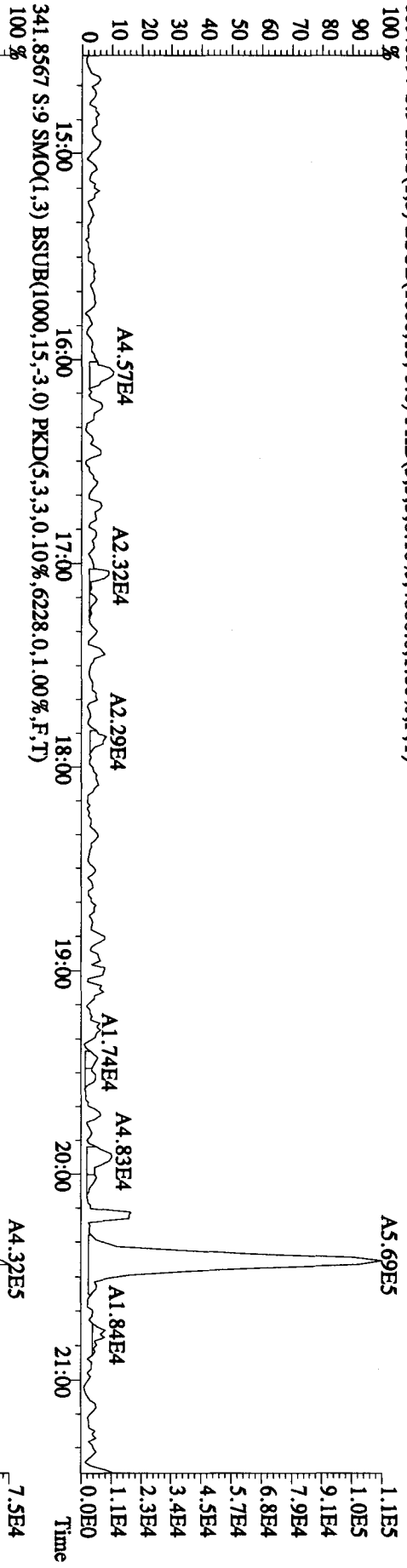


File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LO2LE-1-AF :G9L120491-8S Exp:DIOXIN
 327.8847 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.5556,0,1.00%,F,T)

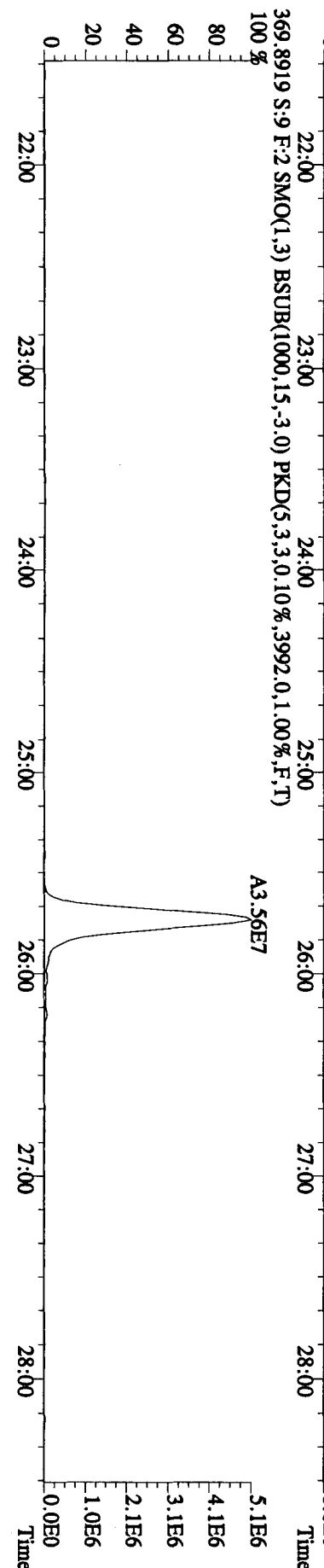
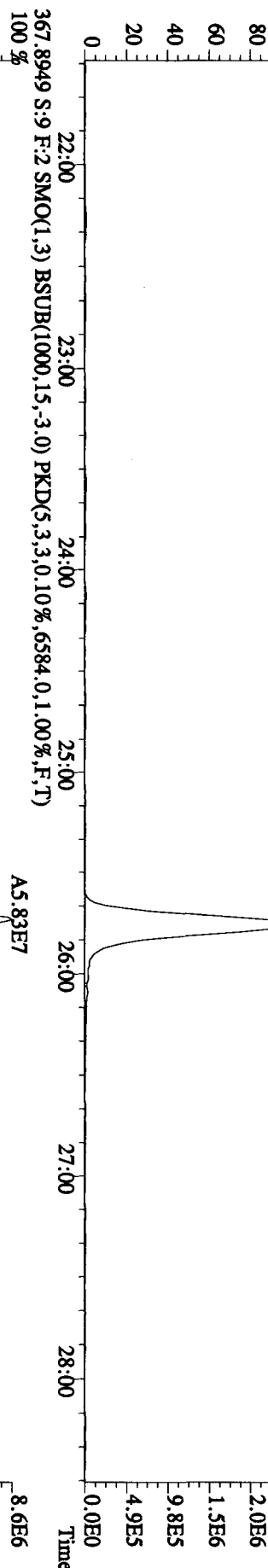
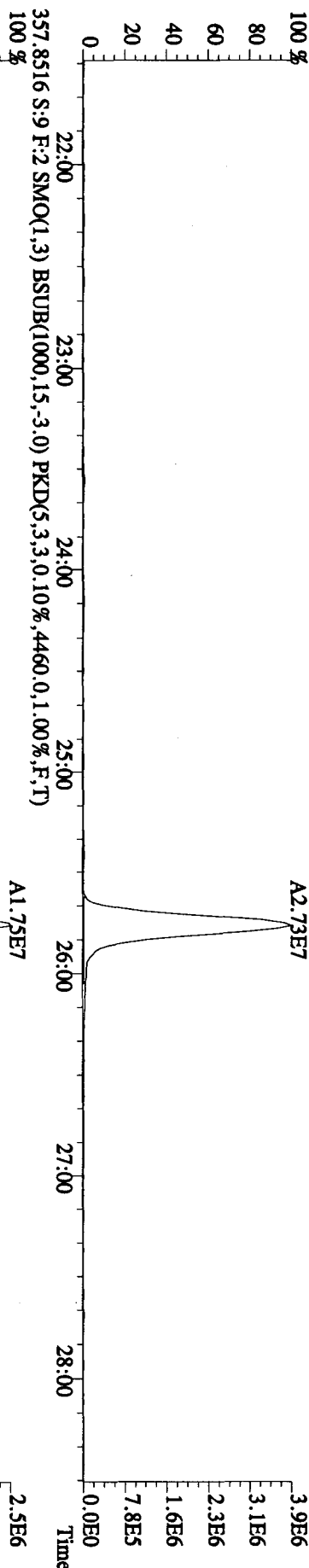




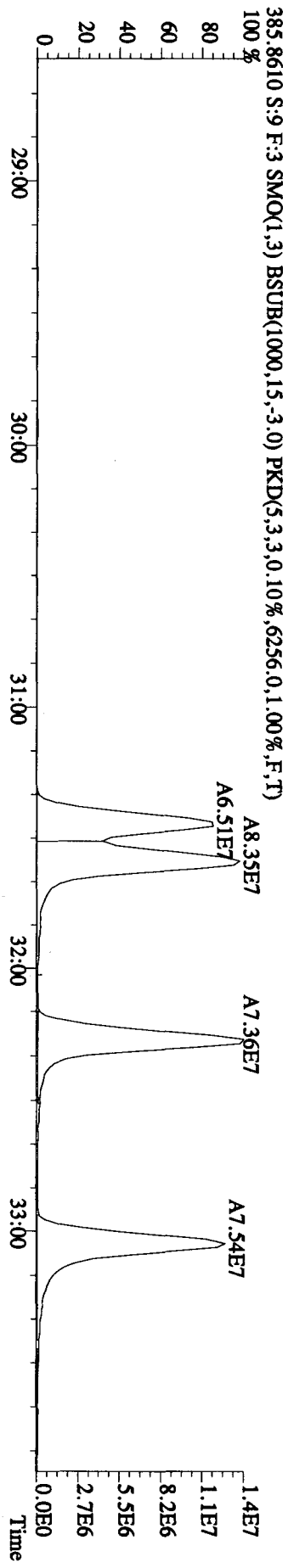
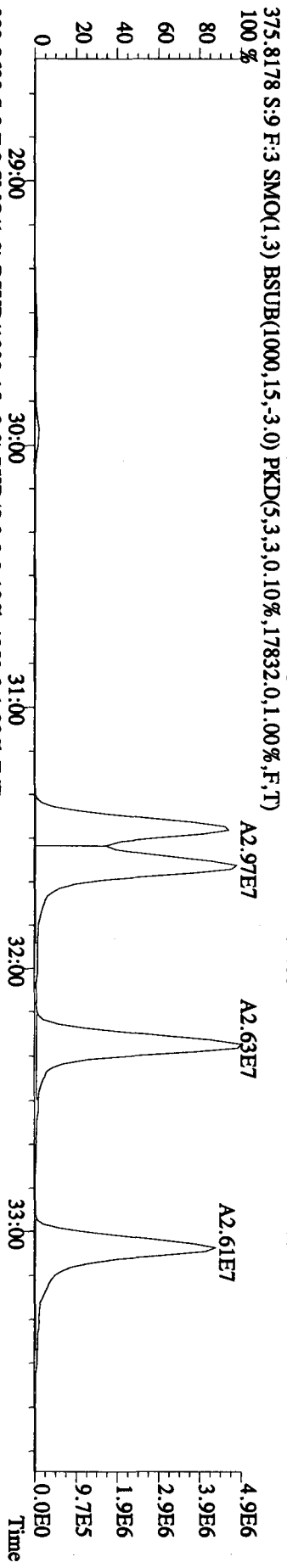
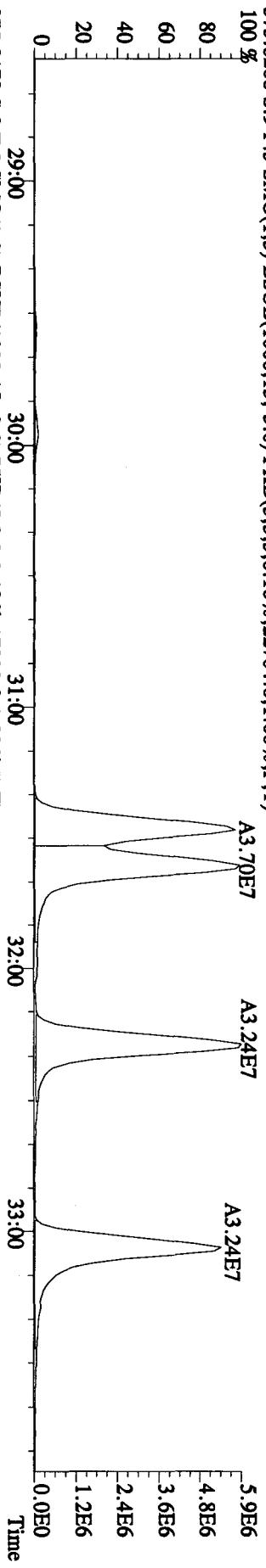
File:04JAI0A10A1D5 #1-411 Acq: 4-JAN-2010 19:57:13 GC EI + Voltage SIR 70SE
 Sample#9 Text:LO2LE-1-AF :G9L120491-8S Exp:DIOXIN
 339.8597 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4860,0,1,00%,F,T)



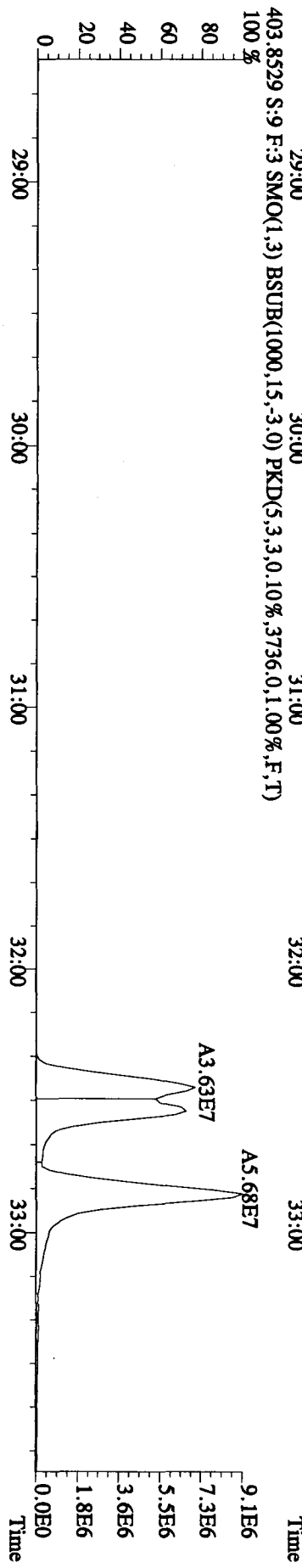
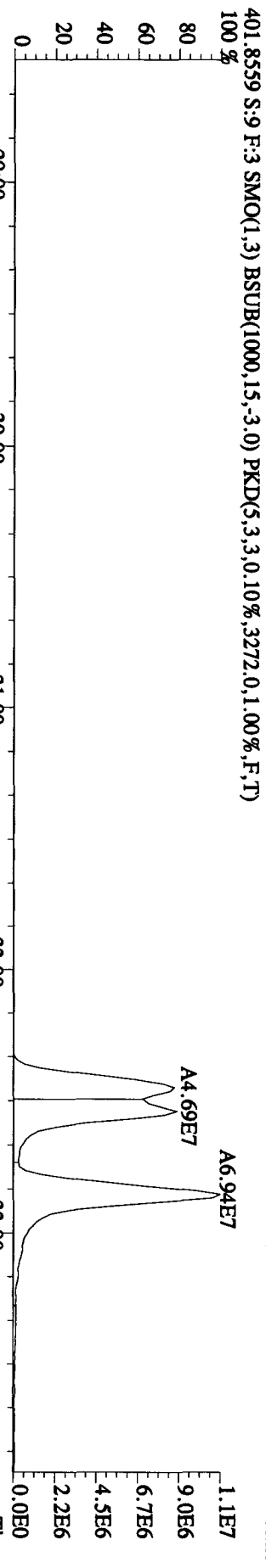
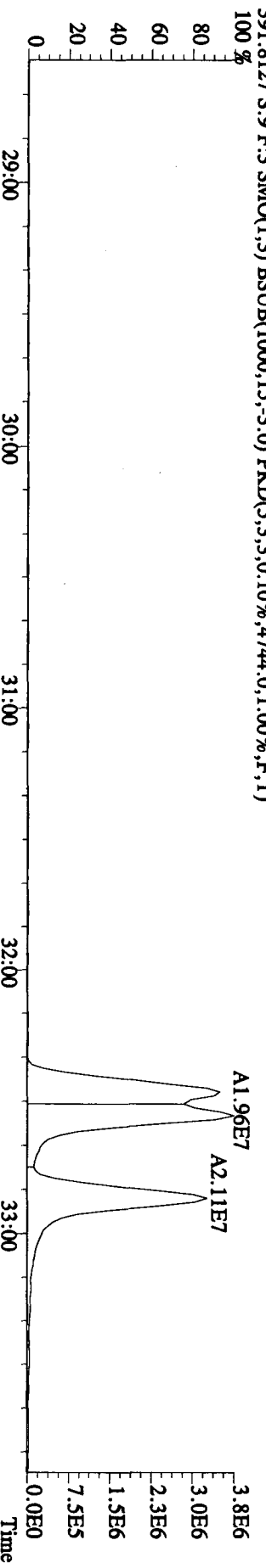
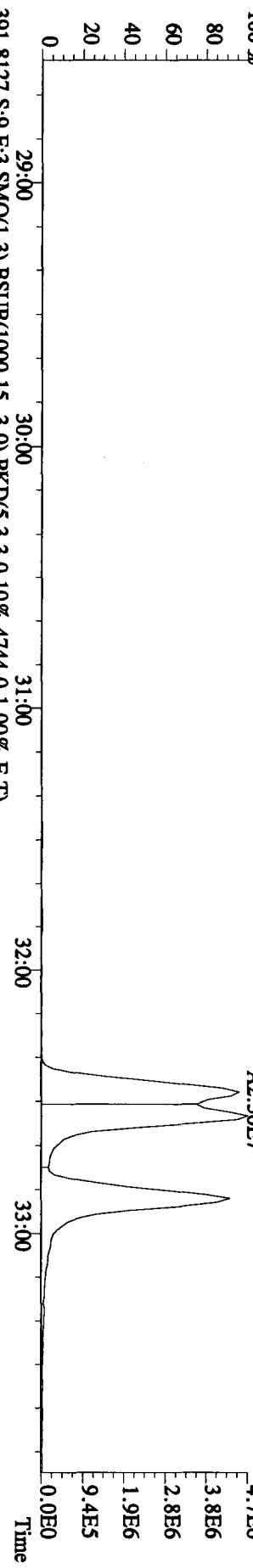
File:04JA10A1D5 #1-495 Acq: 4-JAN-2010 19:57:13 GC EI + Voltage SIR 70SE
 Sample#9 Text:LQ2LE-1-AF :G9L120491-8S Exp:DIOXIN
 355.8546 S:9 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5104,0,1.00%,F,T)



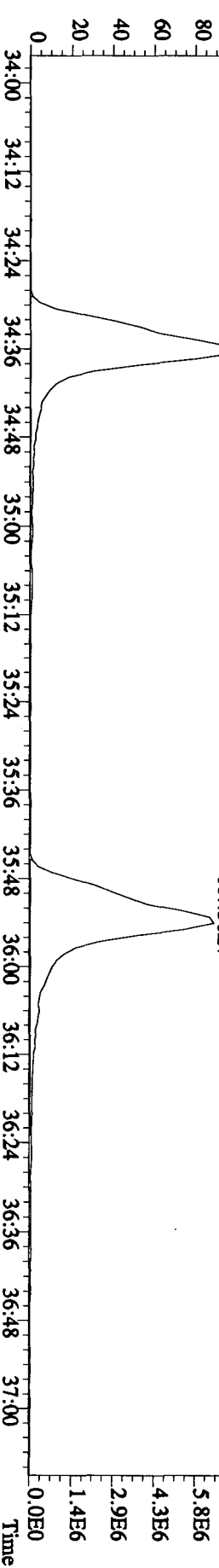
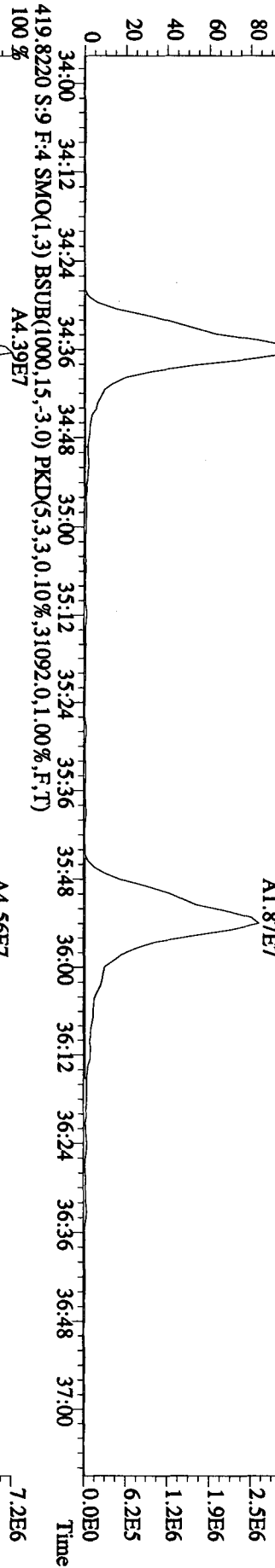
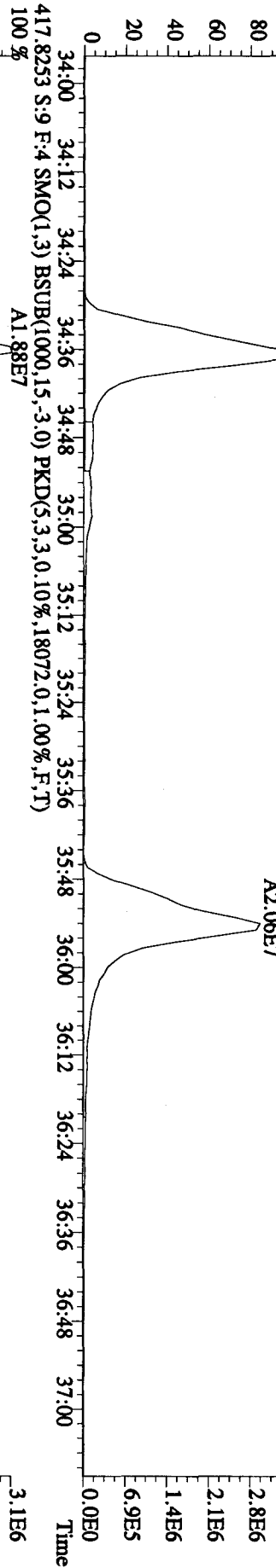
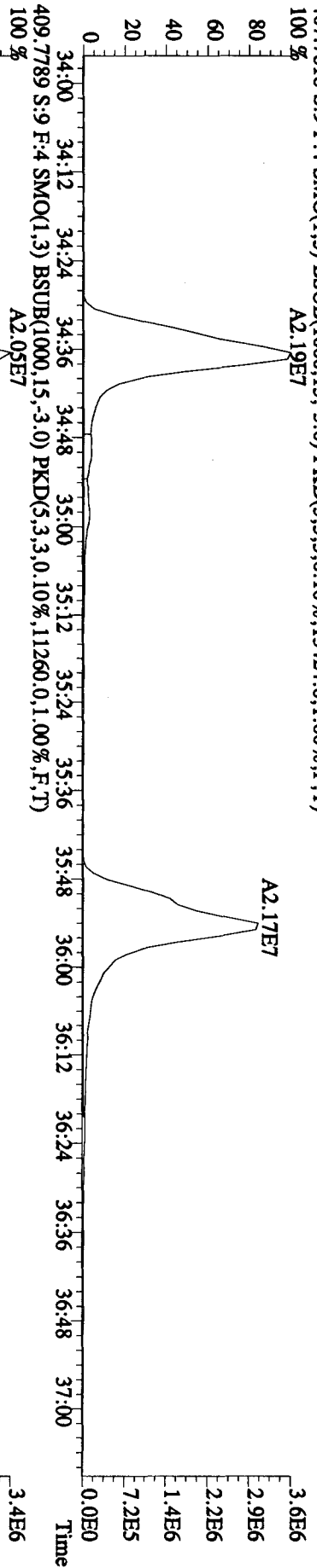
File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LO2LE-1-AF :G9L120491-8S Exp:DIOXIN
 373.8208 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22704.0,1.00%,F,T)



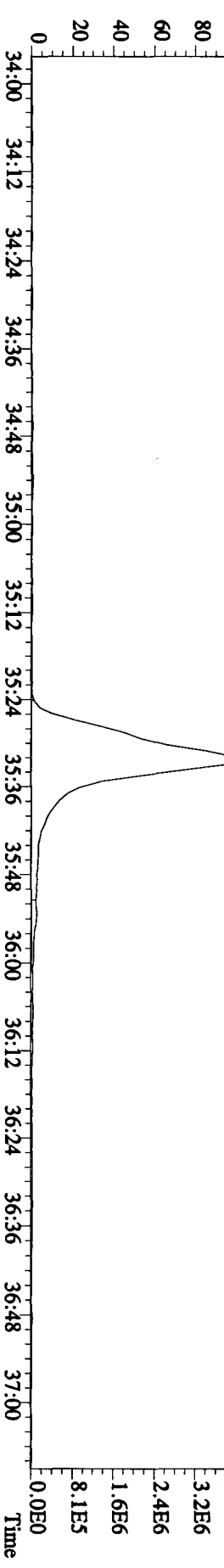
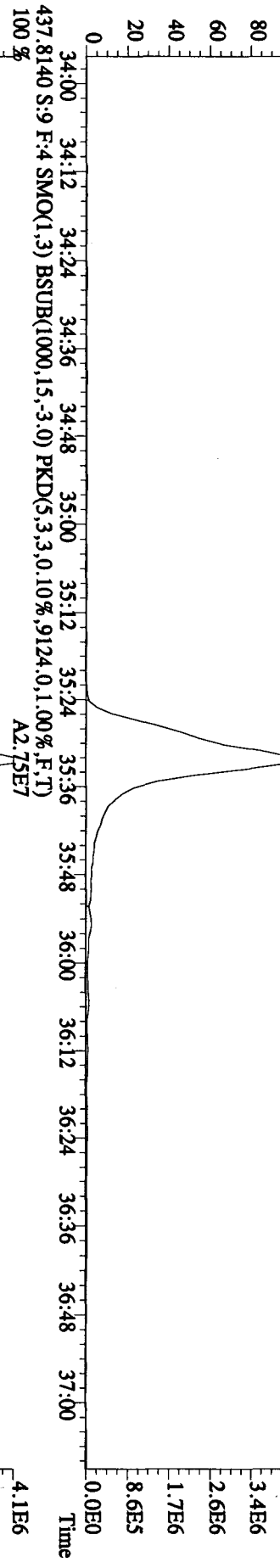
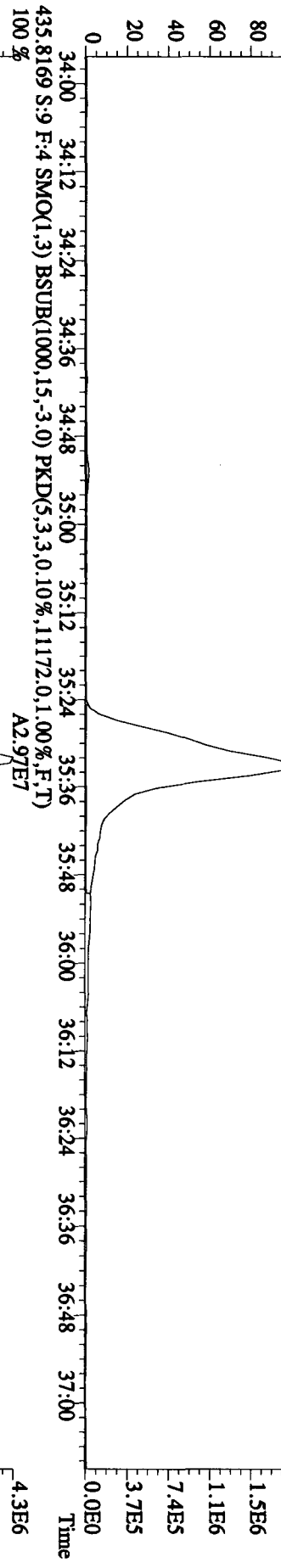
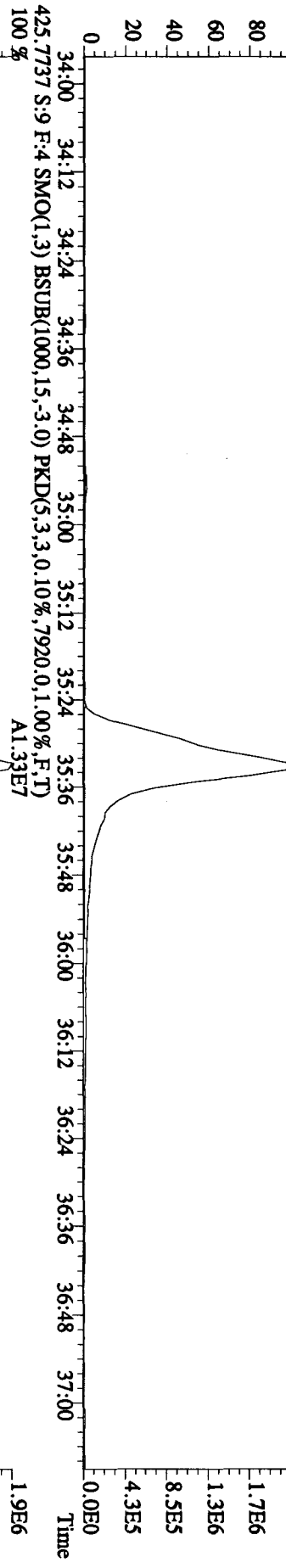
File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LQ2LE-1-AF :G9L120491-8S Exp:DIOXIN
 389.8157 S:9 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,2952.0,1.00%,F,T)



File:04JA10AID5 #1-227 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LQ2LE-1-AF :G9L120491-8S Exp.:DIOXIN
 407.7818 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13424.0,1.00%,F,T)



File:04JA10A1D5 #1-227 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LO2LE-1-AF :G9L120491-8S Exp:DIOXIN
 423.7766 S:9:F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9144.0,1.00%,F,T)
 100 % A1.48E7



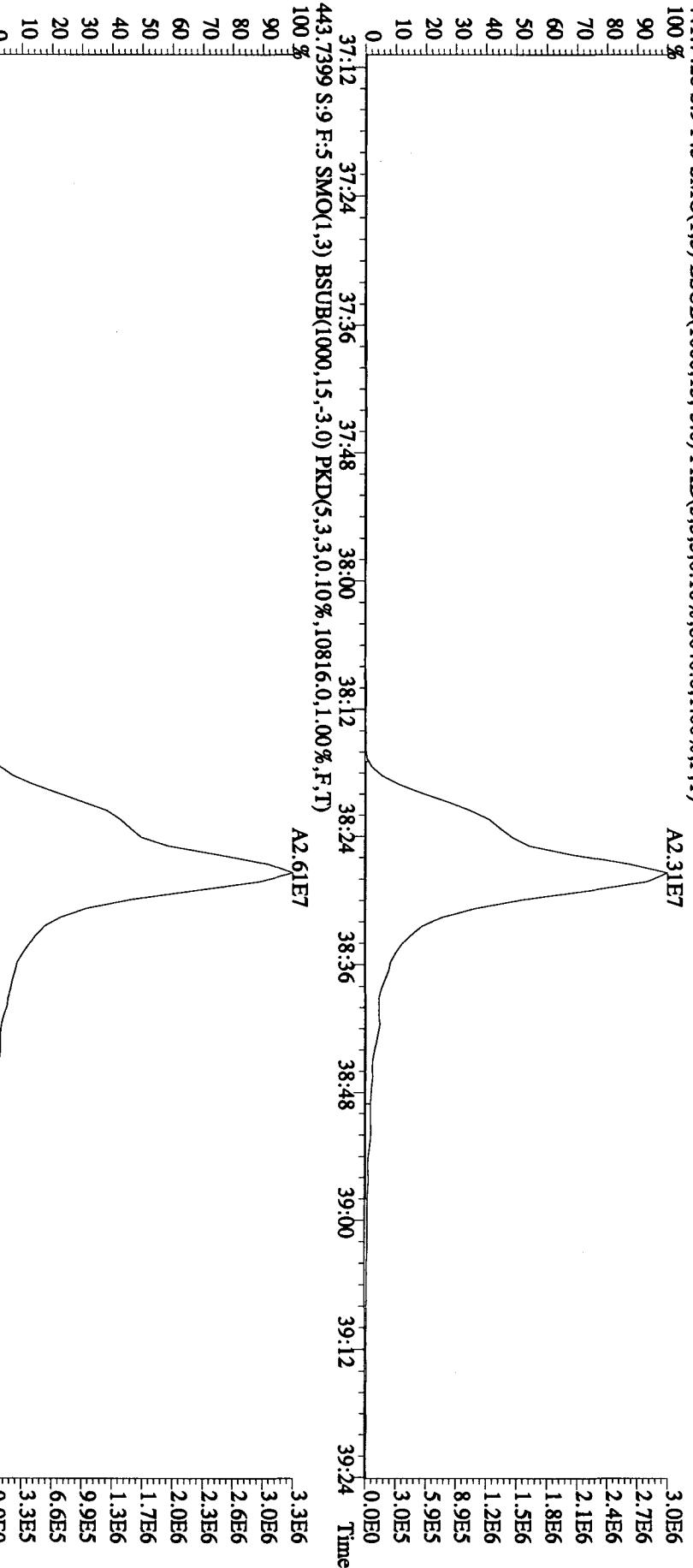
File:041A10A1D5 #1-161 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE

Sample#9 Text:LQ2LE-1-AF :G9L120491-8S

Exp:DIOXIN

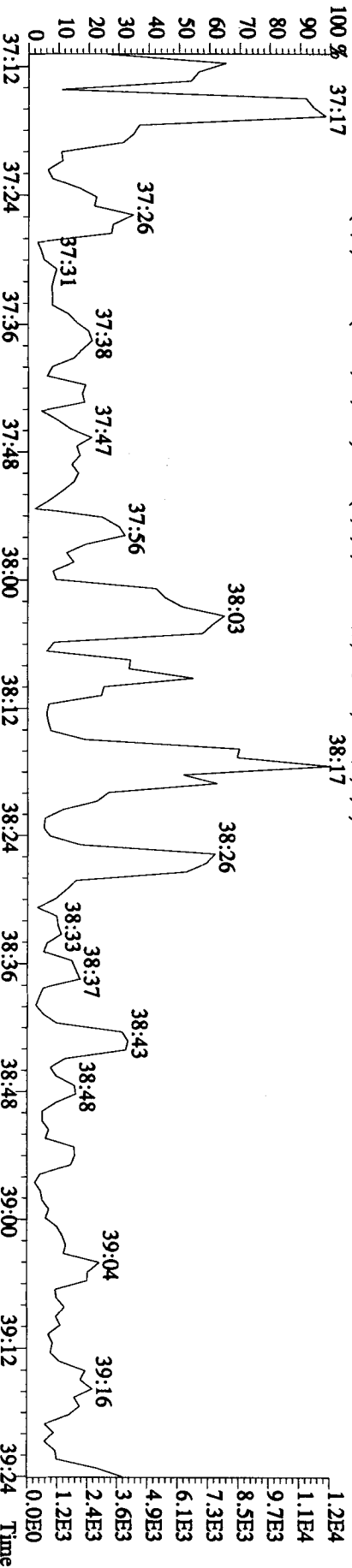
441.7428 S:9 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8040,0,1,00%,F,T)

100%

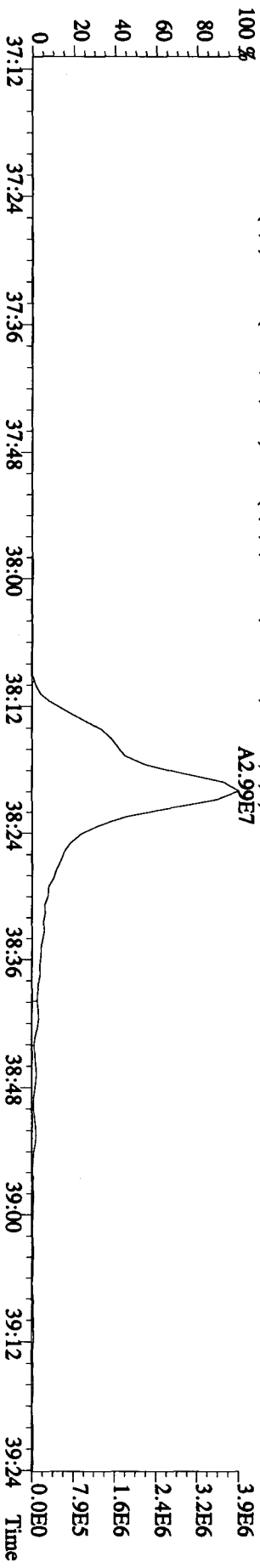
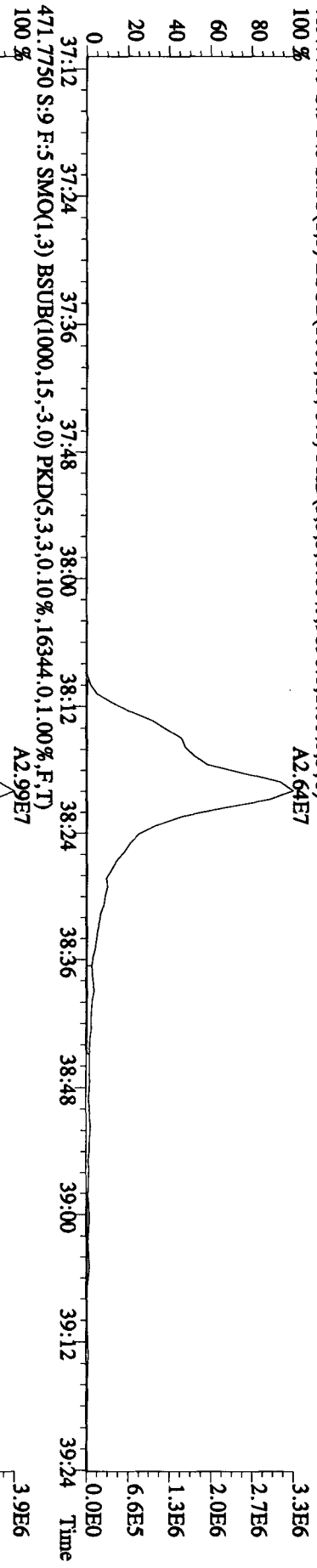
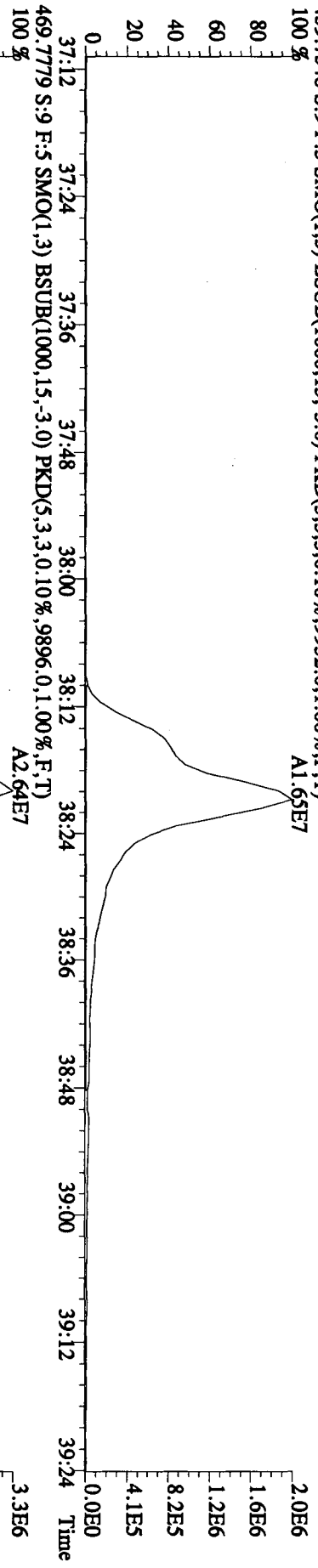
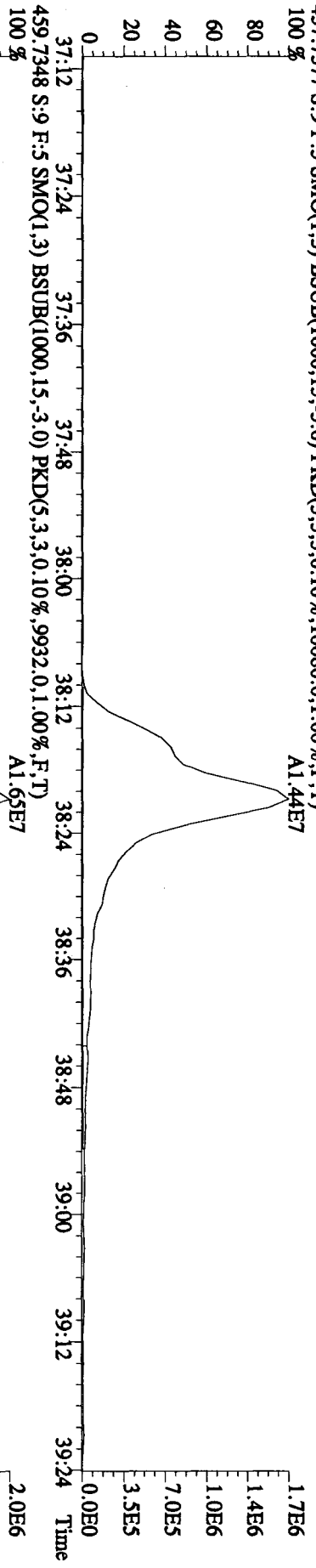


513.6775 S:9 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1204,0,1,00%,F,T)

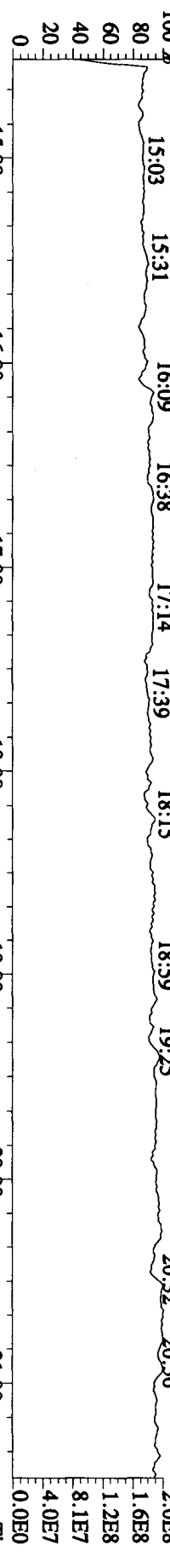
100%



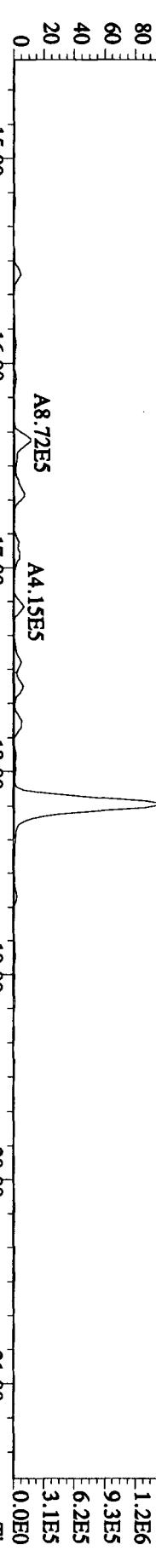
File:041A10A1D5 #1-161 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LQ2LE-1-AF :G9L120491-8S Exp:DIOXIN
 457.7377 S:9 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10080.0,1.00%,F,T)
 100% A1.44E7



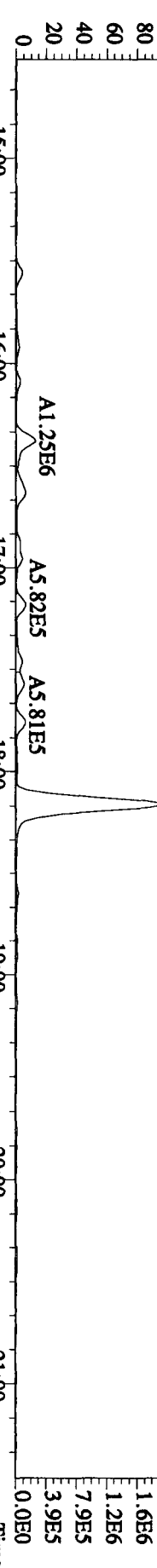
File:04J10A10AIDS #1-411 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE
 Sample#9 Text:LQ2LE-1-AF :G9L120491-8S Exp.:DIOXIN
 292.9825 S:9 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



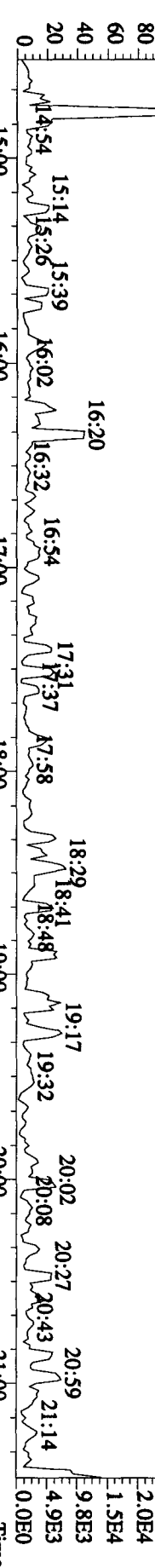
303.9016 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4888,0.1,0.00%,F,T)
 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00



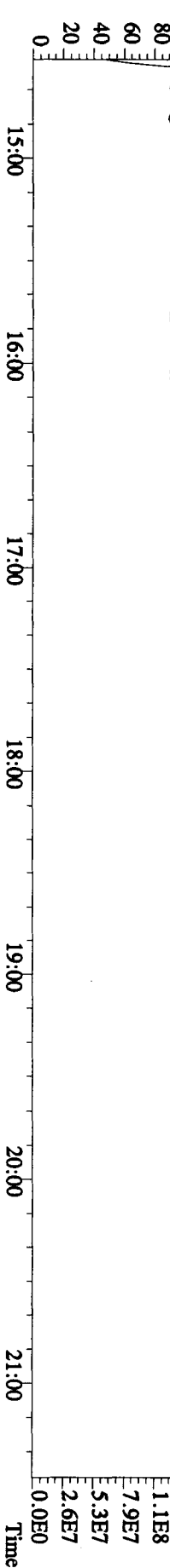
305.8987 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7184,0.1,0.00%,F,T)
 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00



375.8364 S:9 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2328,0.1,0.00%,F,T)
 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00



330.9792 S:9 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 15:00 16:00 17:00 18:00 19:00 20:00 21:00

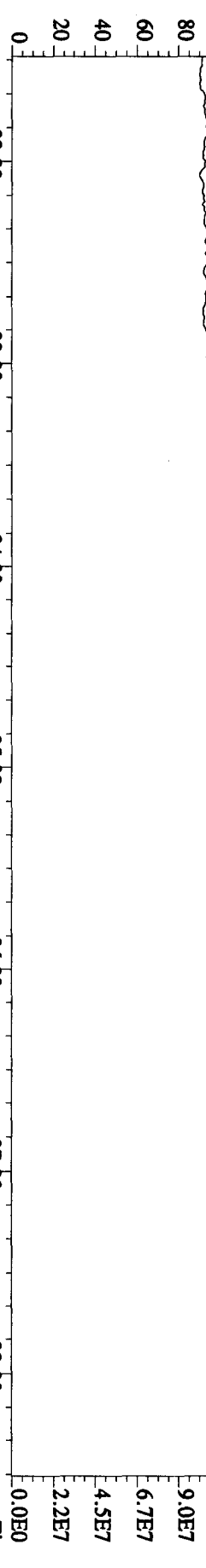


File:04J1A10AID5 #1-495 Acq: 4-JAN-2010 19:57:13 GC EI+ Voltage SIR 70SE

Sample#9 Text:LQ2LE-1-AF :G9L120491-8S Exp:DIOXIN

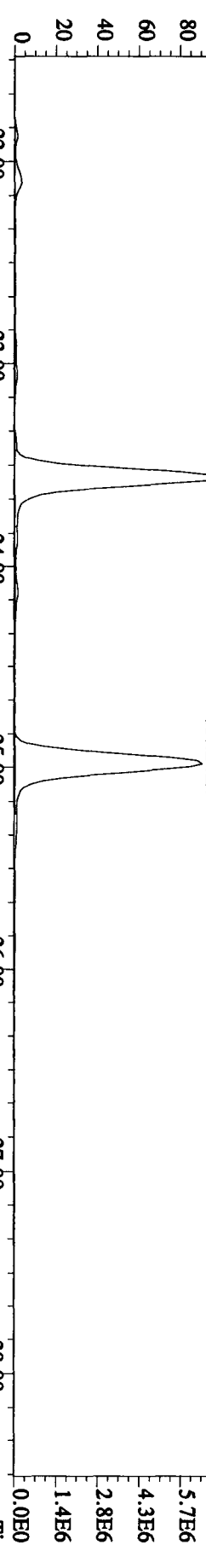
342.9792 S:9 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 21:51 22:36 23:01 23:24 23:55 24:21 24:56 25:20 25:42 26:22 26:51 27:15 27:42 28:08



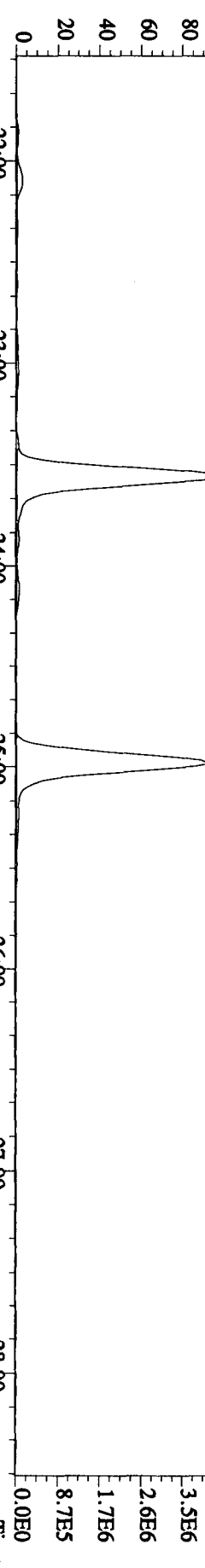
339.8597 S:9 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9004,0,1,00%,F,T)

100 % 22:00 23:00 24:00 25:00 26:00 27:00 28:00

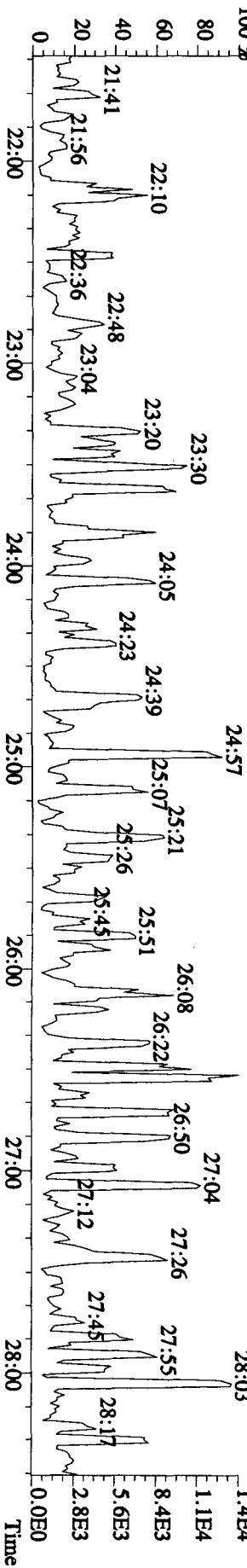


341.8567 S:9 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8716,0,1,00%,F,T)

100 % 22:00 23:00 24:00 25:00 26:00 27:00 28:00



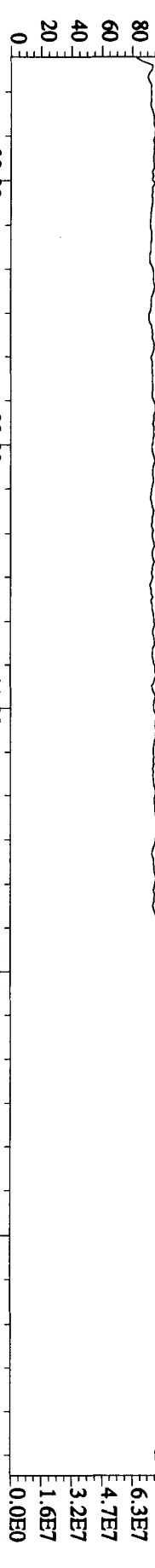
409.7974 S:9 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2520,0,1,00%,F,T)



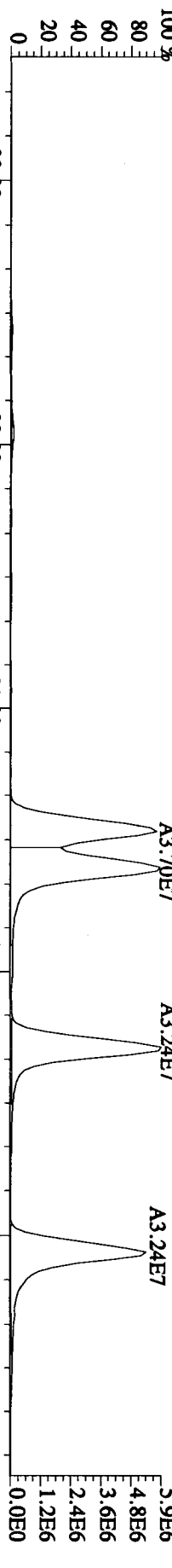
Sample#9 Text:LO2LE-1-AF :G9L120491-85 Exp:DIOXIN

392.9760 S:9 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

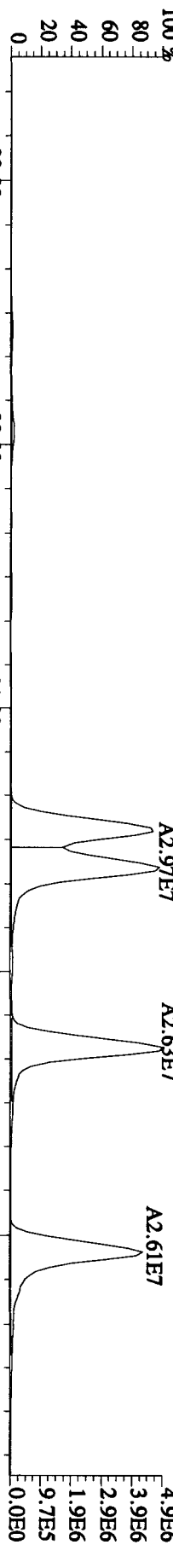
100 % 28:48 29:24 29:52 30:27 30:52 31:26 31:59 32:38 32:55 33:15 33:40



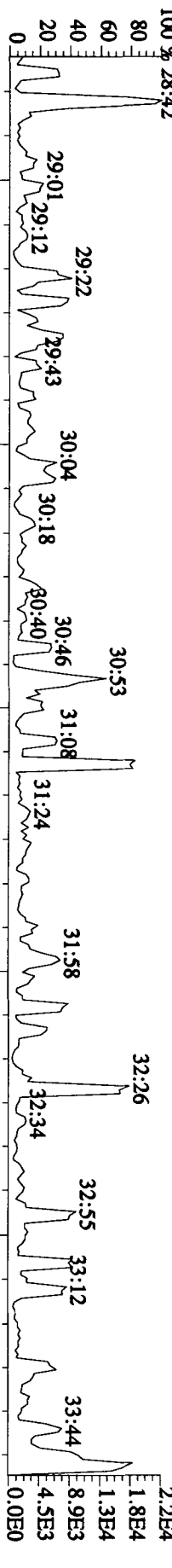
373.8208 S:9 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,22704,0,1.00%,F,T)



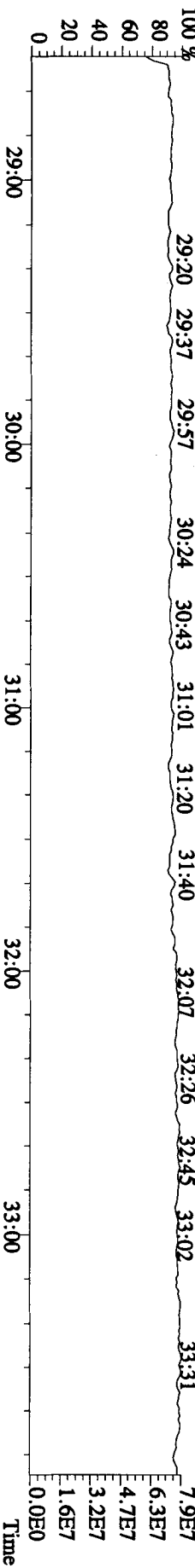
375.8178 S:9 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,17832,0,1.00%,F,T)

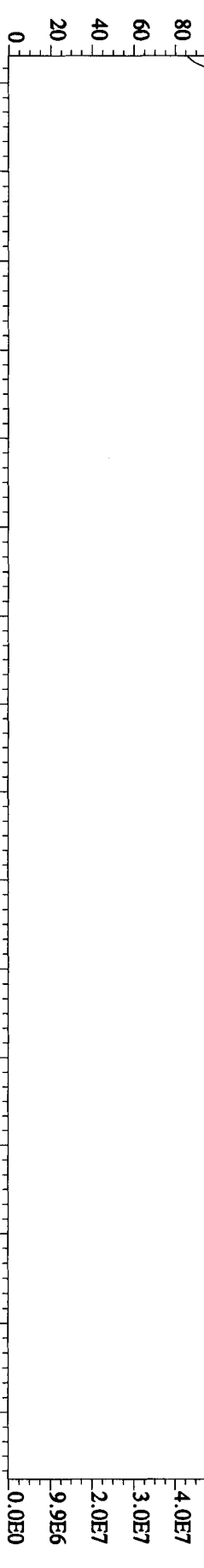


445.7555 S:9 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2148,0,1.00%,F,T)

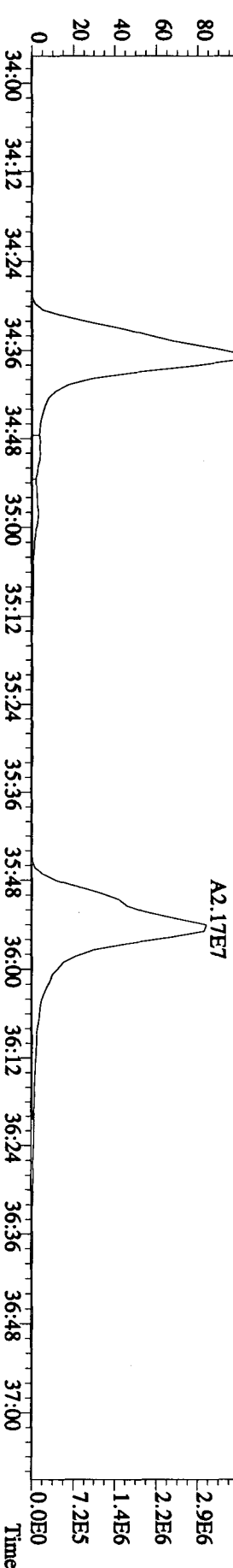


380.9760 S:9 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

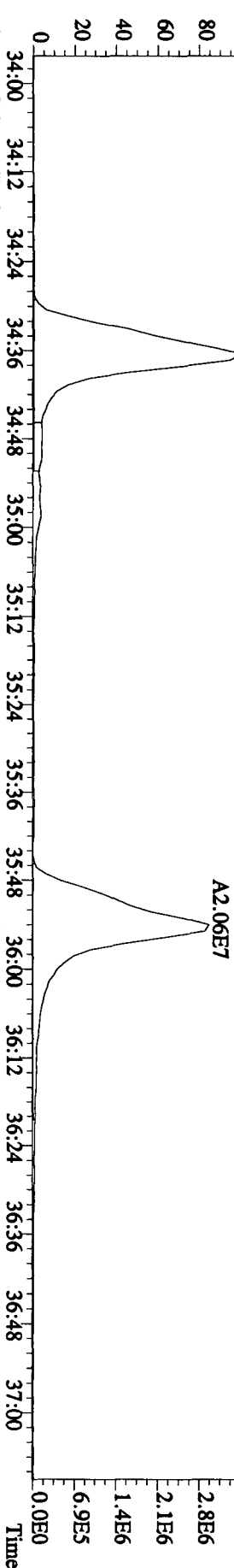




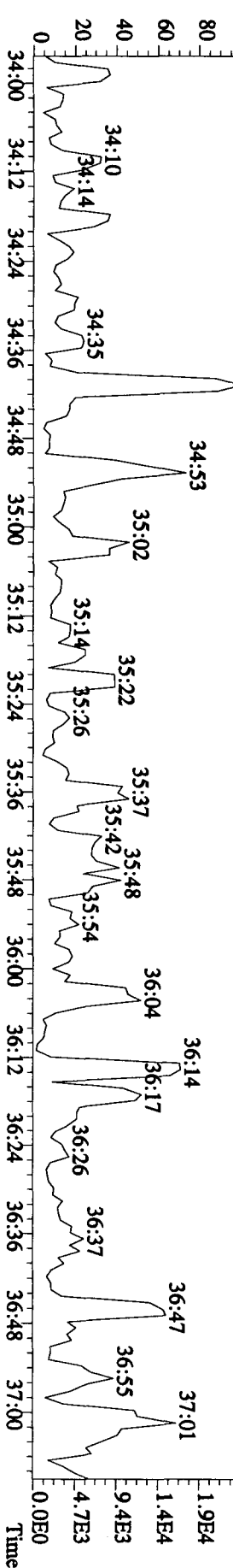
407.7818 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13424.0,1.00%,F,T)



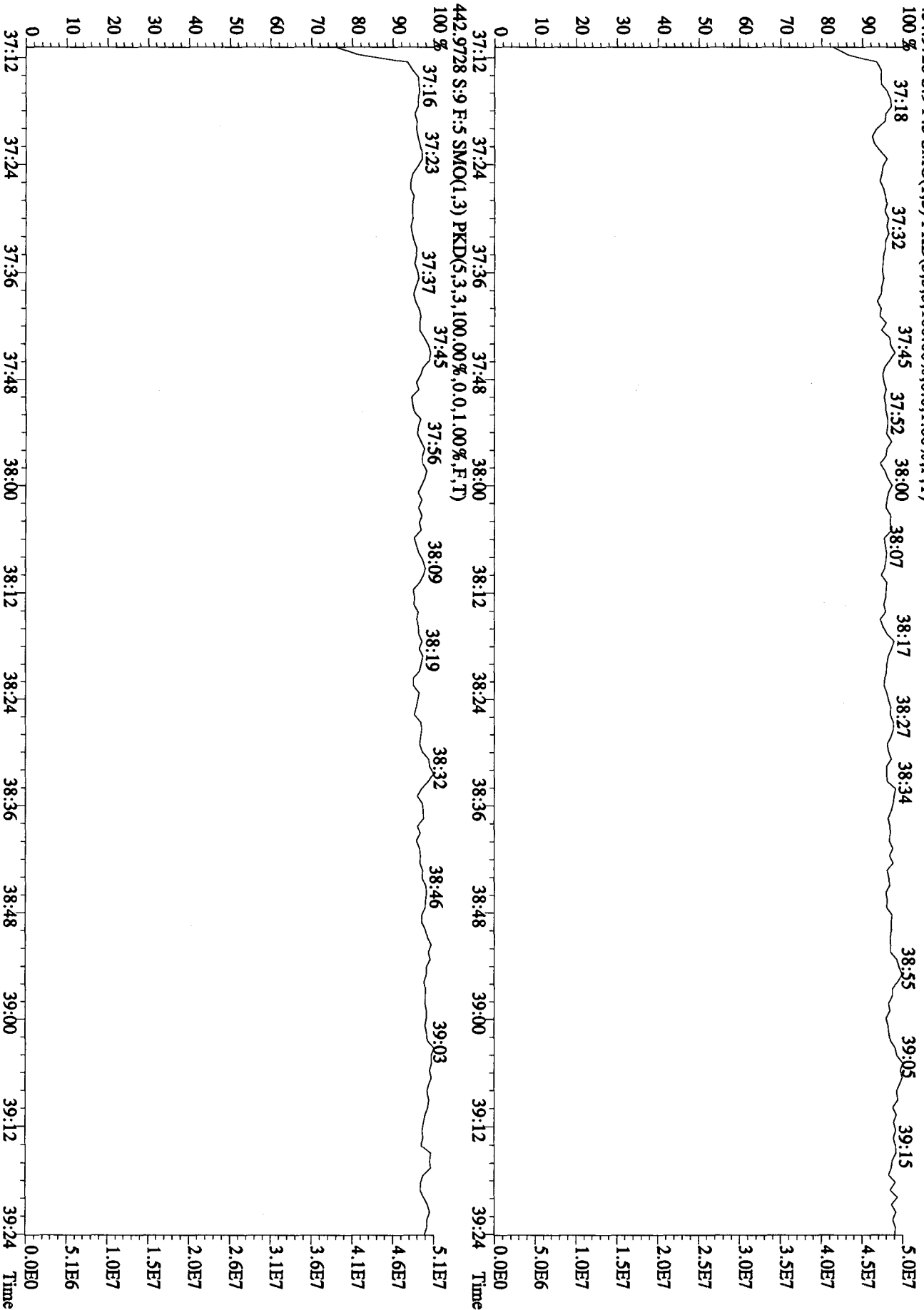
409.7789 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11260.0,1.00%,F,T)



479.7165 S:9 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4612.0,1.00%,F,T)



File:041A10AID5 #1-161 Acq: 4-JAN-2010 19:57:13 GC EI + Voltage SIR 70SE
 Sample#9 Text:LQ2LE-1-AF :G9L120491-8S Exp:DIOXIN
 454.9728 S:9 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

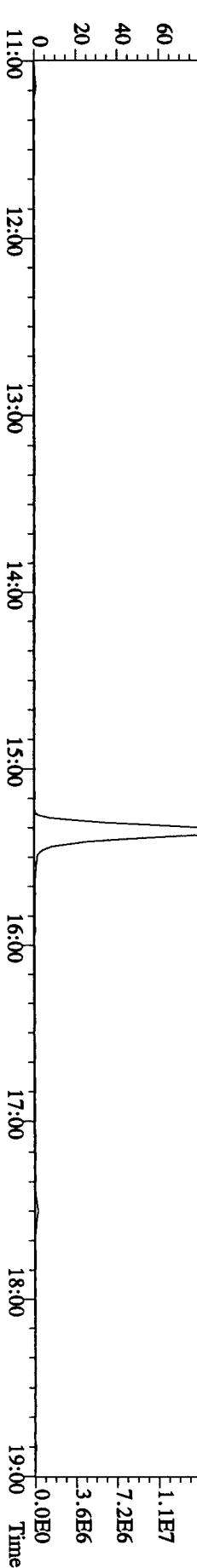
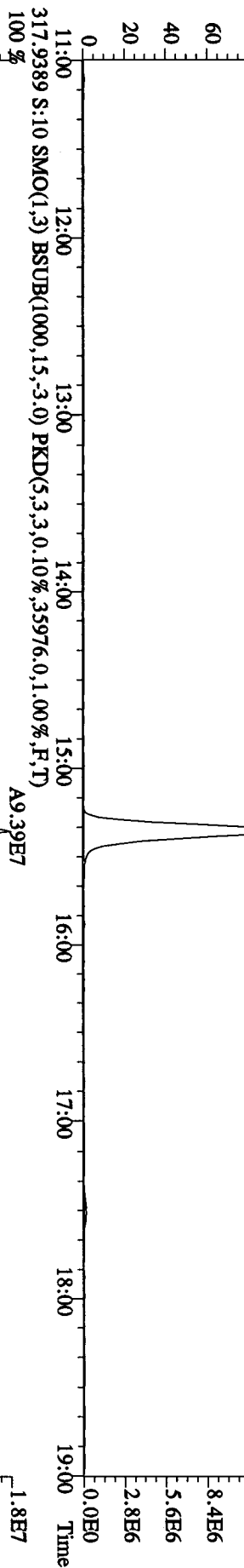
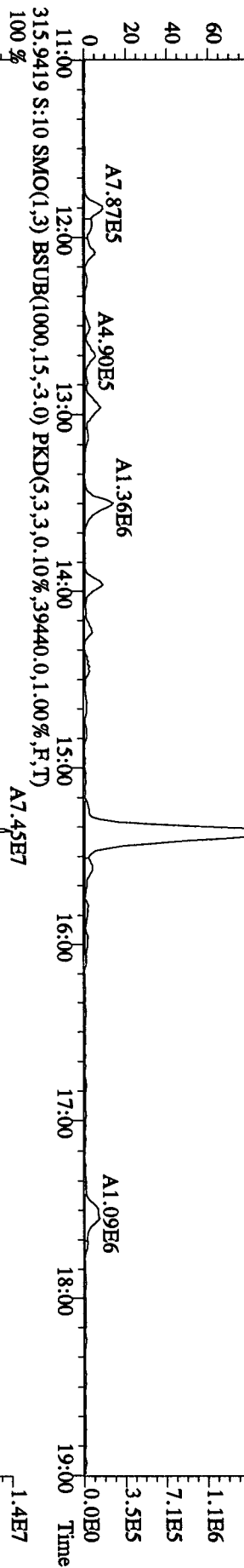
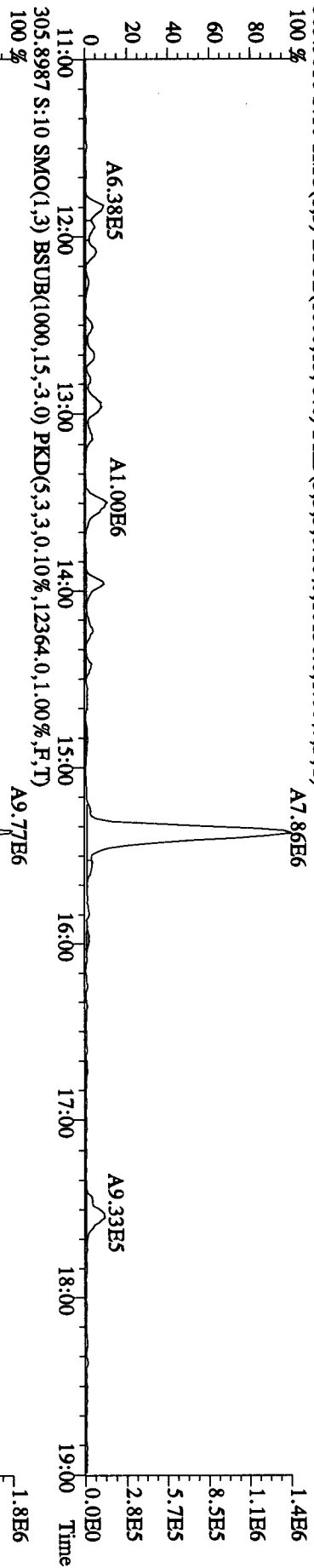


Run text: LQ2LE-1-AF Sample text: LQ2LE-1-AF :G9L120491-8S
 Run #11 Filename: 05JA105D2 S: 10 I: 1 Results: 05JA105D2DB225
 Acquired: 5-JAN-10 15:46:12 Processed: 5-JAN-10 19:06:32
 Run: 05JA105D2 Analyte: DB225HRS Cal: DB2250104105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.08007g

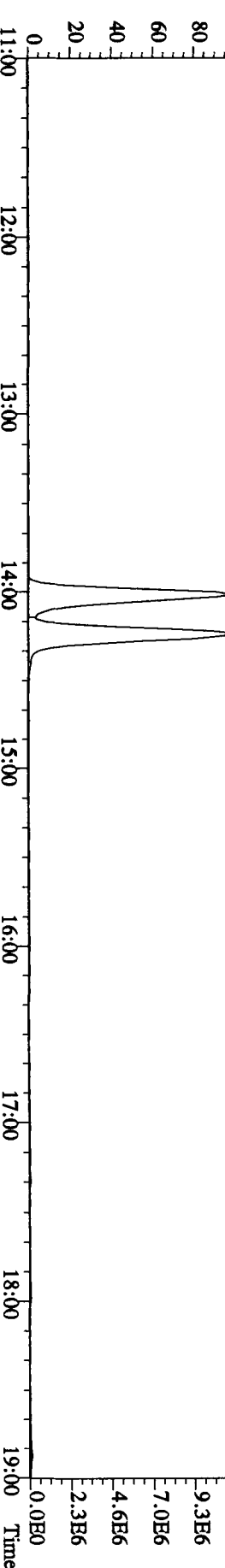
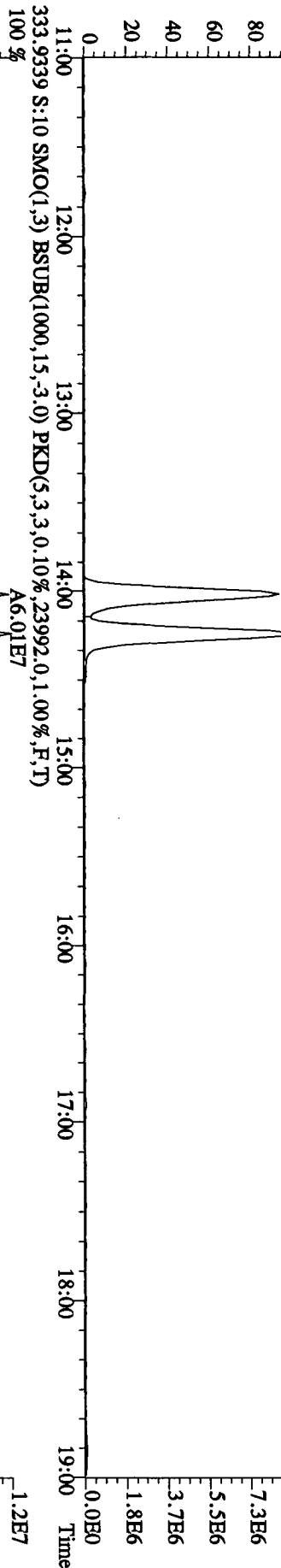
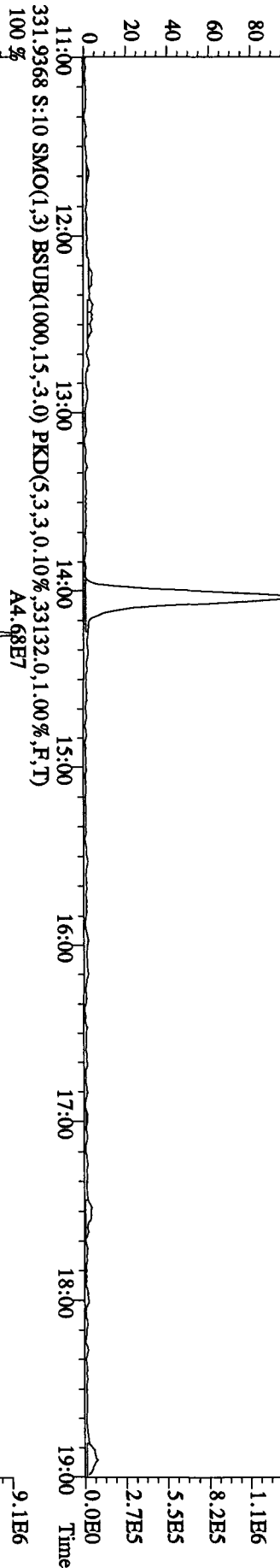
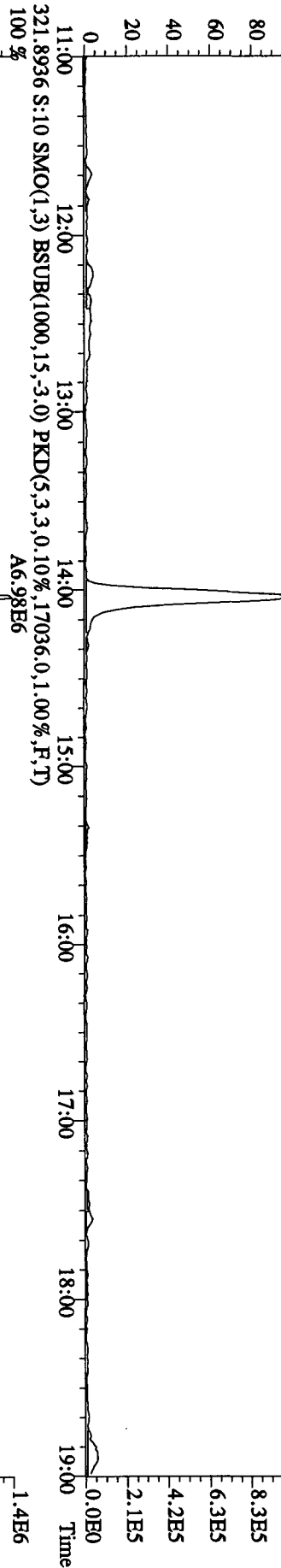
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	106959700	0.78 y	14:15	-	4.91	-	-	n
13C-2,3,7,8-TCDF	168416300	0.79 y	15:22	1.66	93.90	0.65	47.3	n
2,3,7,8-TCDF	17629220	0.80 y	15:22	1.01	√20.49	0.41	-	n
13C-2,3,7,8-TCDD	100938700	0.78 y	14:01	0.95	98.43	0.86	49.6	n
2,3,7,8-TCDD	12374850	0.77 y	14:03	1.18	20.57	0.69	-	n
37Cl-2,3,7,8-TCDD	133830400	1.00 y	14:02	2.07	60.03	0.22	75.6	n

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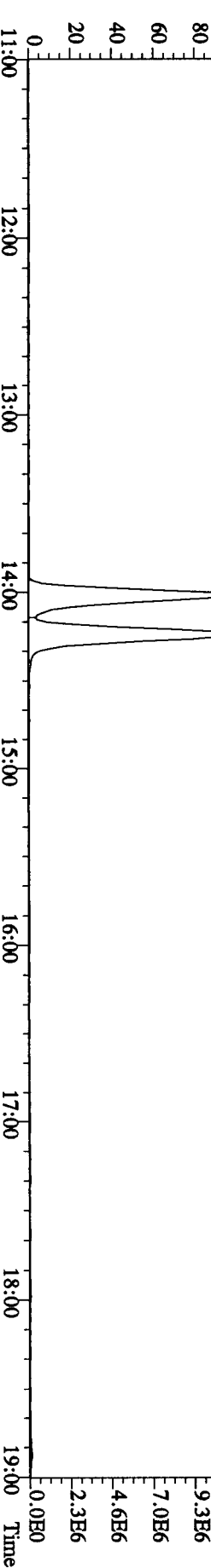
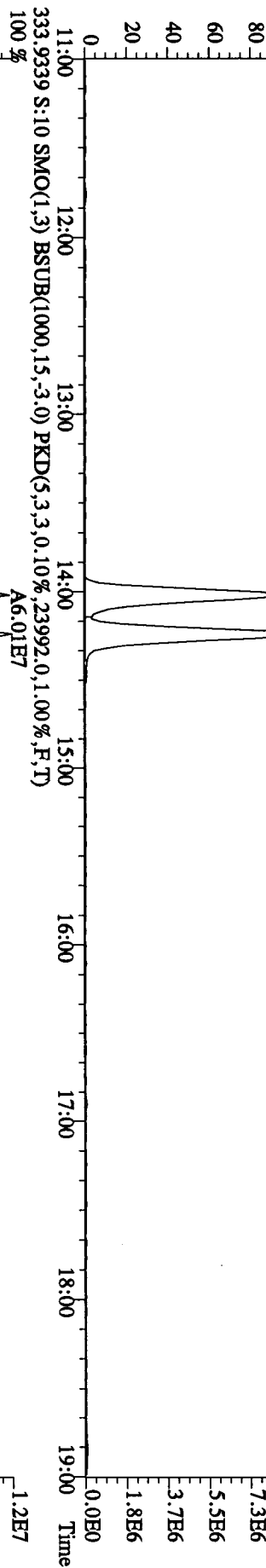
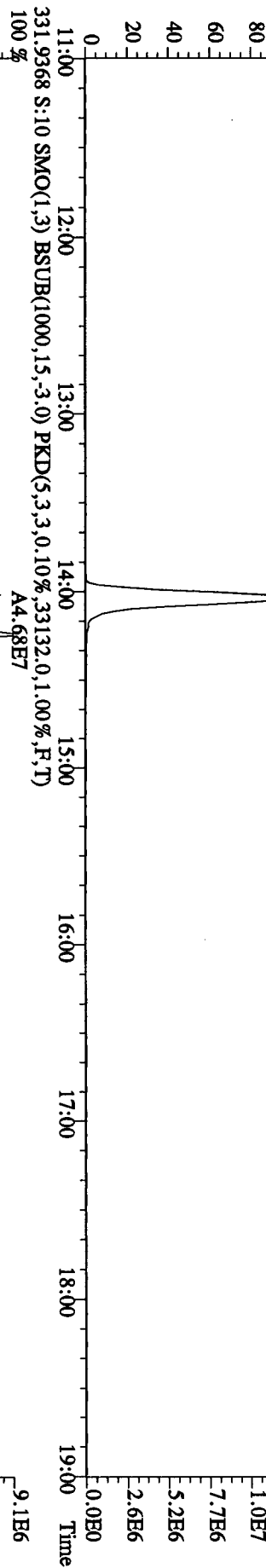
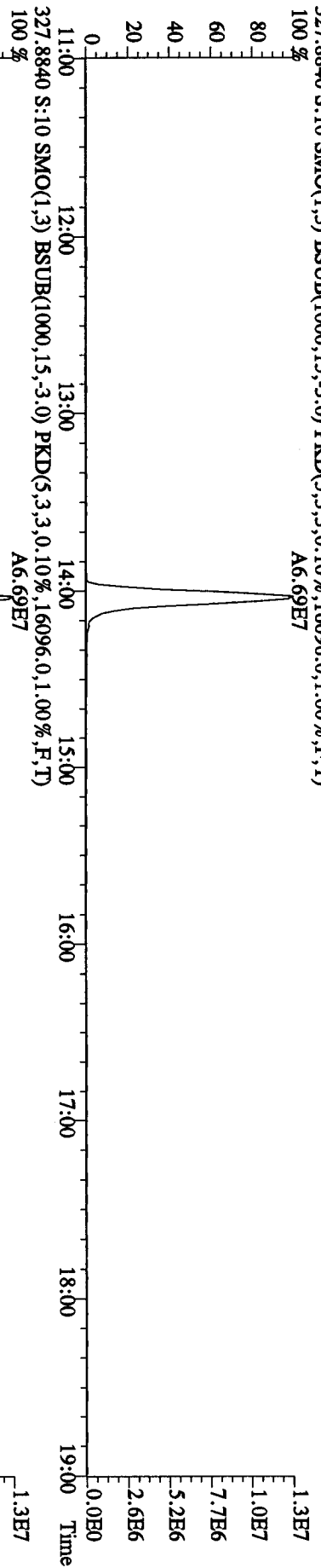
File:05JIA105D2 #1-1242 Acq: 5-JAN-2010 15:46:12 GC EI+ Voltage SIR 70SE
Sample#10 Text:LQ2LE-1-AF :G9L120491-8S Exp:DB225
303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10136,0.1,0.00%,F,T)



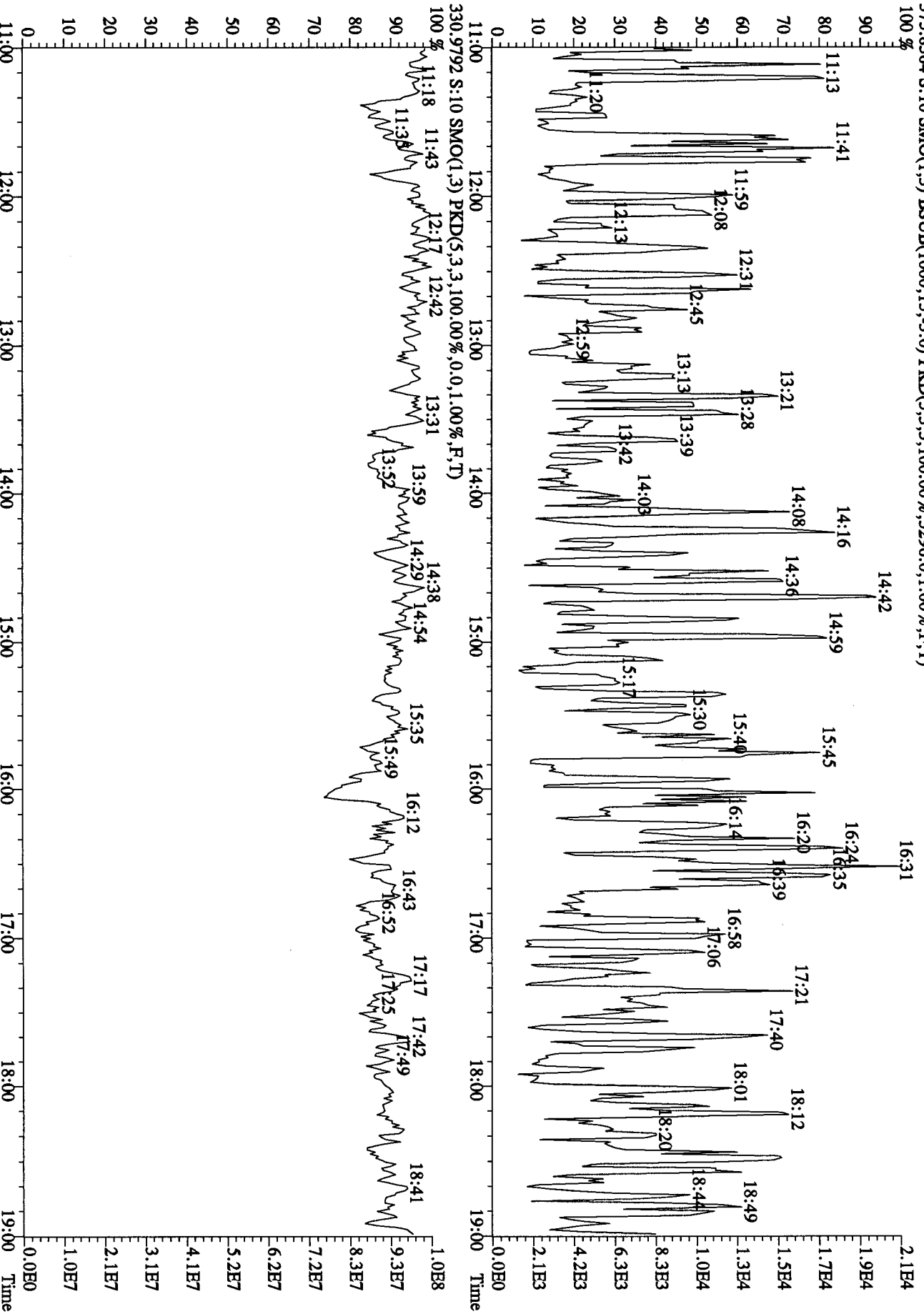
File:051A105D2 #1-1242 Acq: 5-JAN-2010 15:46:12 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LO2LE-1-AF :G9L120491-8S Exp:DB225
 319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,10116,0,1.00%,F,T)
 100% A5.39E6



File:051A105D2 #1-1242 Acq: 5-JAN-2010 15:46:12 GC EI+ Voltage SIR 70SE
Sample#10 Text:LQ2LE-1-AF :G9L120491-8S Exp:DB225
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,16096,0,1.00%,F,T)
100% A6.69E7



File:05JIA105D2 #1-1242 Acq: 5-JAN-2010 15:46:12 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LQ2LE-1-AF :G9L120491-8S Exp:DB225
 375.8364 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,5296,0,1.00%,F,T)

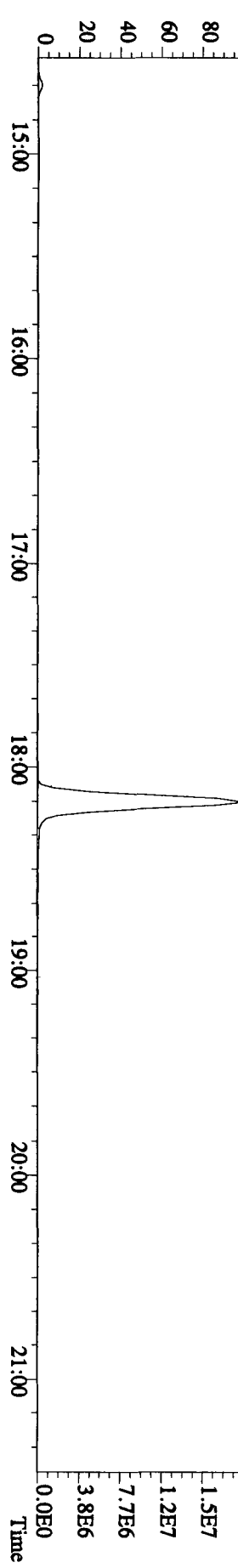
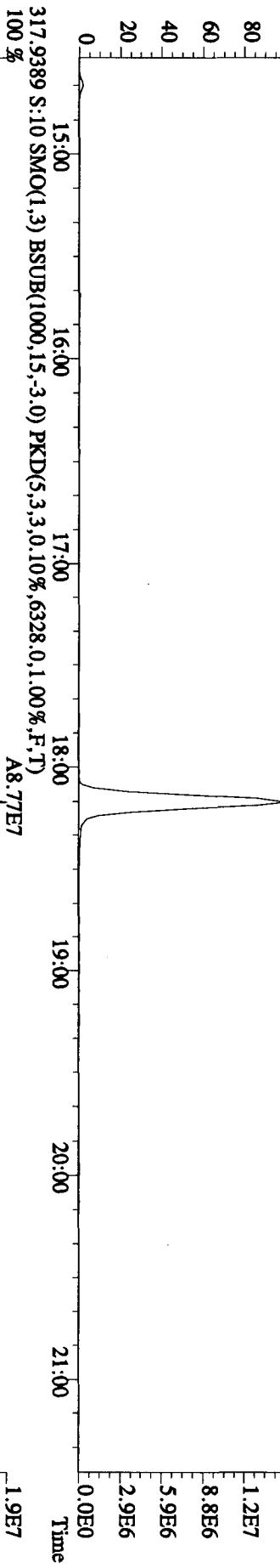
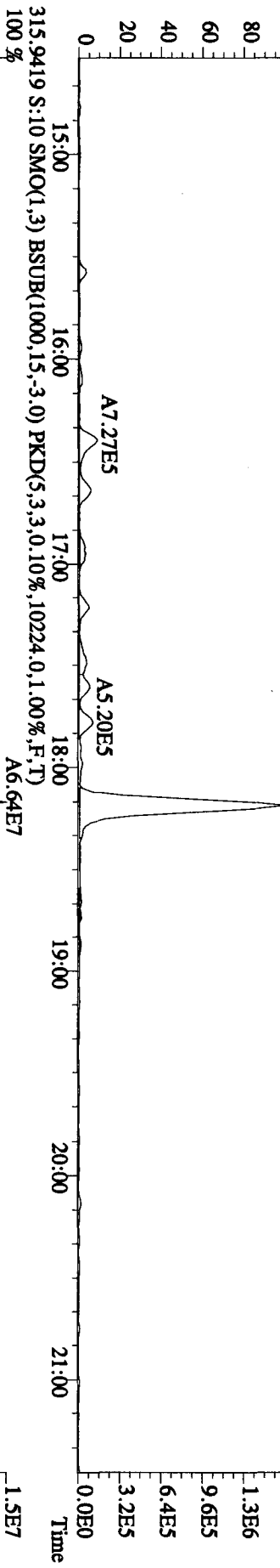
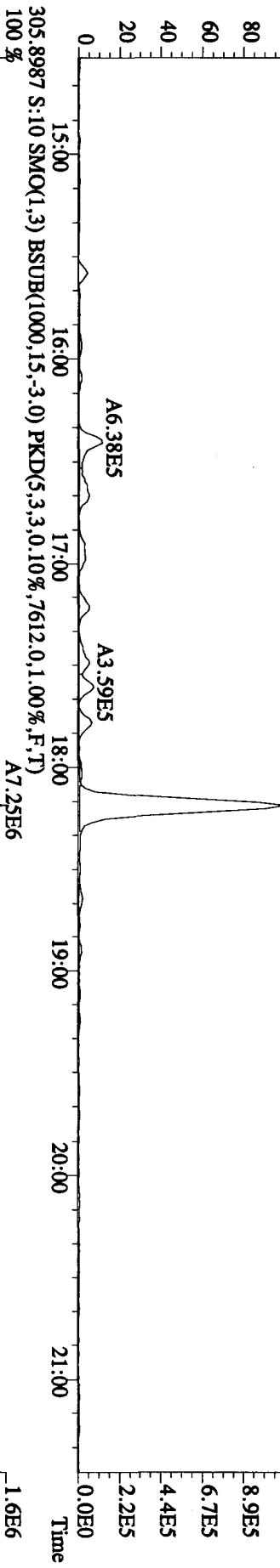


Run text: LQ2LE-1-AG Sample text: LQ2LE-1-AG :G9L120491-8D
 Run #14 Filename: 04JA10A1D5 S: 10 I: 1 Results: 04JA10A1D58290
 Acquired: 4-JAN-10 20:39:01 Processed: 5-JAN-10 07:51:42
 Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.1700g

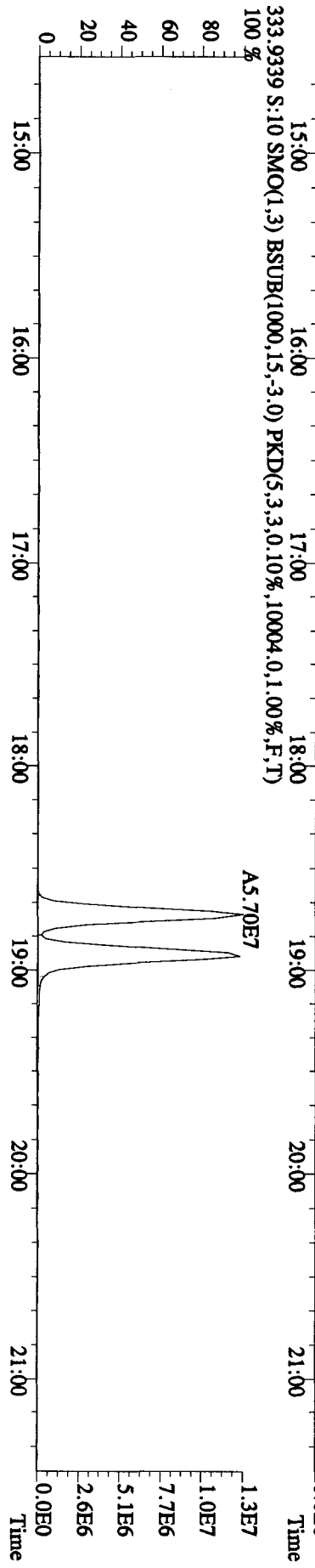
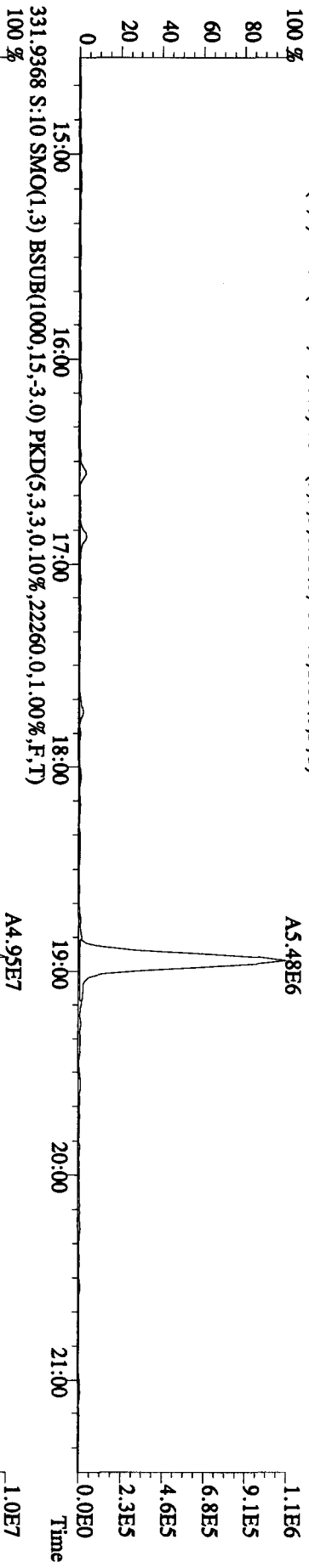
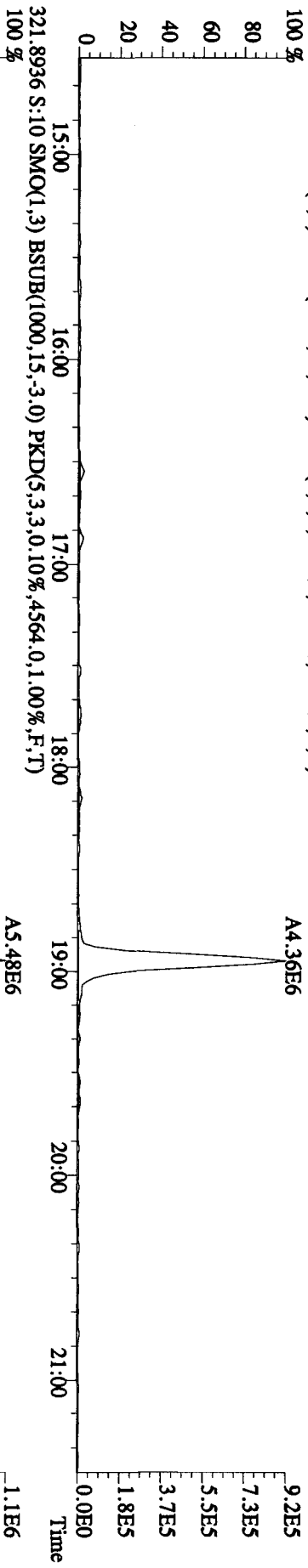
AK 1/7/10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	100751500	0.77 y	18:44	-	3.18	-	-	n
13C-2,3,7,8-TCDF	154078100	0.76 y	18:10	1.57	96.02	0.14	48.8	n
2,3,7,8-TCDF	12545480	0.73 y	18:11	0.86	18.62	0.24	-	n
Total TCDF	19112179	0.91 n	15:35	0.86	28.37	0.24	-	n
13C-2,3,7,8-TCDD	111483900	0.80 y	18:56	0.99	109.53	0.43	55.7	n
2,3,7,8-TCDD	9838950	0.80 y	18:57	0.93	18.59	0.24	-	n
Total TCDD	10378104	0.53 n	16:33	0.93	19.61	0.24	-	n
37Cl-2,3,7,8-TCDD	124588800	1.00 y	18:57	2.22	54.82	0.08	69.7	n
13C-1,2,3,7,8-PeCDF	111908700	1.59 y	23:34	1.07	101.80	0.18	51.8	n
1,2,3,7,8-PeCDF	54167200	1.60 y	23:36	1.00	95.18	0.50	-	n
2,3,4,7,8-PeCDF	51461000	1.57 y	25:01	0.94	96.35	0.54	-	n
Total F2 PeCDF	110552016	1.22 n	21:55	0.97	200.46	0.52	-	n
Total F1 PeCDF	879692	0.32 n	16:04	0.97	1.59	0.38	-	n
13C-1,2,3,7,8-PeCDD	70516200	1.66 y	25:46	0.67	103.28	0.25	52.5	n
1,2,3,7,8-PeCDD	34194000	1.59 y	25:48	0.93	102.63	0.60	-	n
Total PeCDD	34957497	2.20 n	22:22	0.93	104.92	0.60	-	n
13C-1,2,3,7,8,9-HxCDD	77113800	1.30 y	32:52	-	2.76	-	-	n
13C-1,2,3,4,7,8-HxCDF	73299900	0.51 y	31:28	0.89	104.69	0.63	53.2	n
1,2,3,4,7,8-HxCDF	43987500	1.24 y	31:29	1.20	98.42	1.13	-	n
1,2,3,6,7,8-HxCDF	52730500	1.26 y	31:38	1.37	103.17	0.99	-	n
2,3,4,6,7,8-HxCDF	45330400	1.25 y	32:19	1.24	97.92	1.09	-	n
1,2,3,7,8,9-HxCDF	42784300	1.27 y	33:04	1.33	86.56	1.02	-	n
Total HxCDF	187033725	1.30 y	29:37	1.28	390.67	1.06	-	n
13C-1,2,3,6,7,8-HxCDD	68741600	1.30 y	32:33	0.73	119.73	0.25	60.9	n
1,2,3,4,7,8-HxCDD	30636000	1.26 y	32:28	0.97	90.36	0.34	-	n
1,2,3,6,7,8-HxCDD	37734300	1.30 y	32:34	1.06	102.00	0.31	-	n
1,2,3,7,8,9-HxCDD	36361900	1.23 y	32:53	1.28	81.57	0.26	-	n
Total HxCDD	105224209	3.30 n	31:30	1.10	275.21	0.30	-	n
13C-1,2,3,4,6,7,8-HpCDF	49467000	0.41 y	34:37	0.86	73.33	0.61	37.3	n
1,2,3,4,6,7,8-HpCDF	35612000	1.04 y	34:37	1.29	110.04	1.11	-	n
1,2,3,4,7,8,9-HpCDF	32915500	1.06 y	35:55	1.14	115.25	1.25	-	n
Total HpCDF	69985084	1.04 y	34:37	1.21	230.08	1.18	-	n
13C-1,2,3,4,6,7,8-HpCDD	44079200	1.11 y	35:32	0.75	74.72	0.43	38.0	n
1,2,3,4,6,7,8-HpCDD	21726000	1.09 y	35:33	1.00	97.14	1.18	-	n
Total HpCDD	22003188	1.41 n	34:56	1.00	98.38	1.18	-	n
13C-OCDD	45666100	0.89 y	38:20	0.56	103.17	1.65	26.2	n
OCDF	40970700	0.87 y	38:28	1.44	245.51	2.59	-	n
OCDD	24963500	0.92 y	38:20	1.11	193.78	1.97	-	n

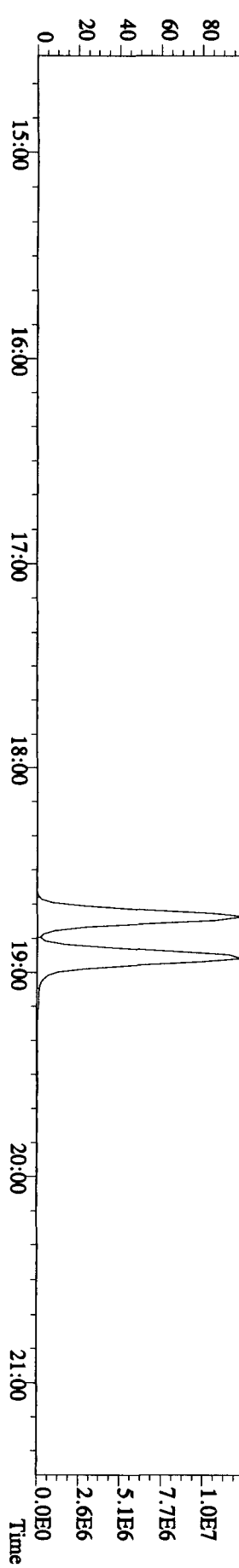
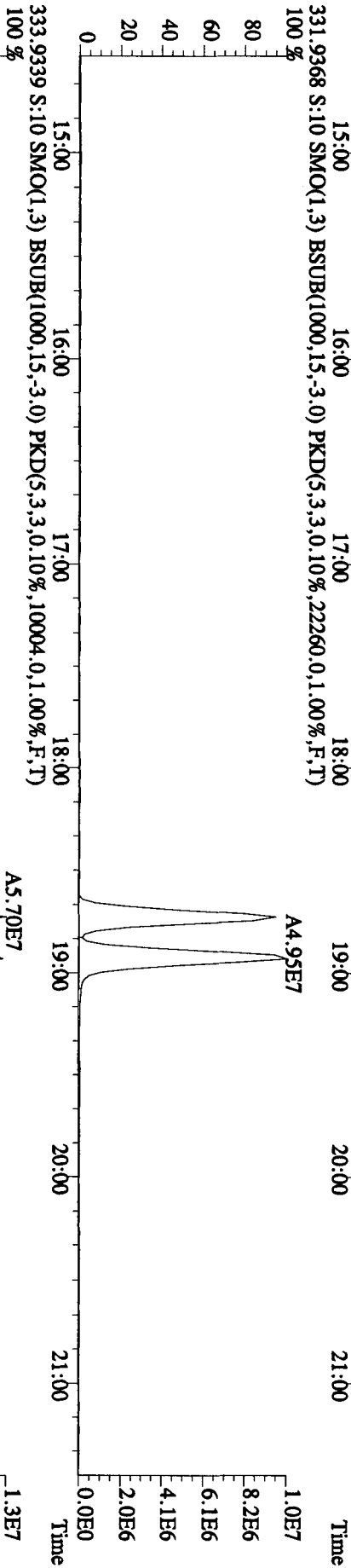
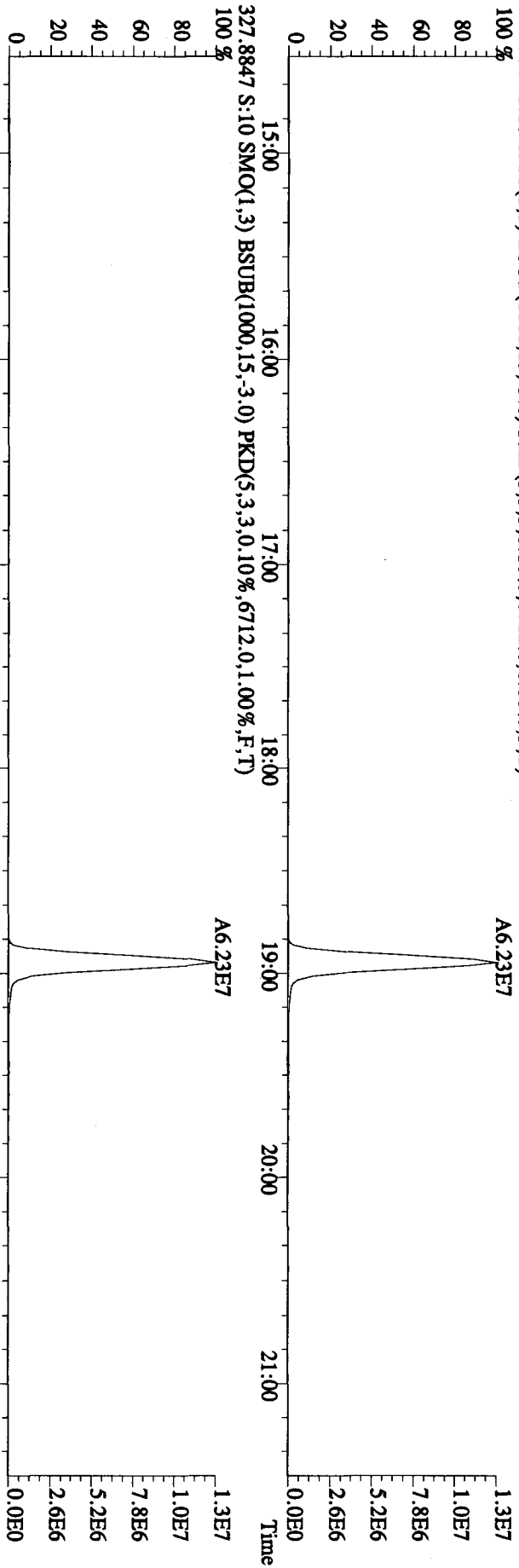
File:04JAI010A1D5 #1-410 Acq: 4-JAN-2010 20:39:01 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LQ2LE-1-AG :G9L120491-8D Exp:DIOXIN
 303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4152.0,1.00%,F,T)
 100 %

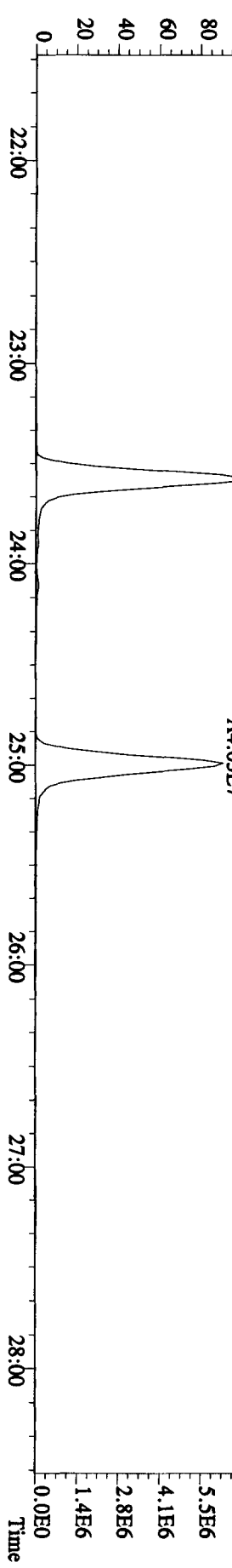
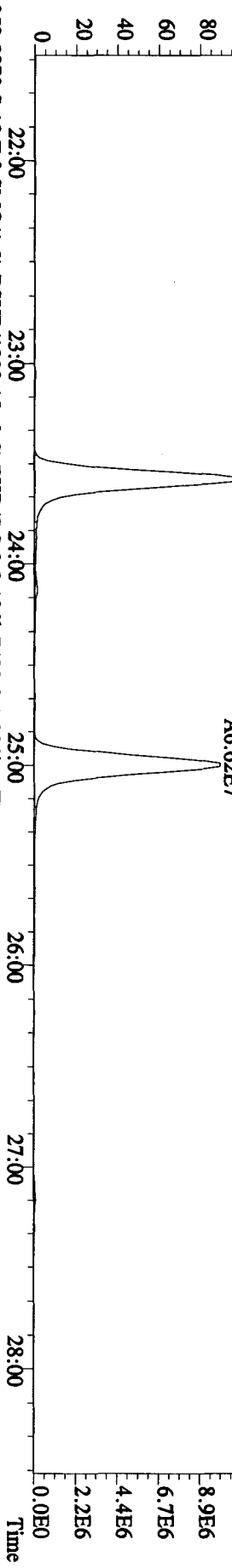
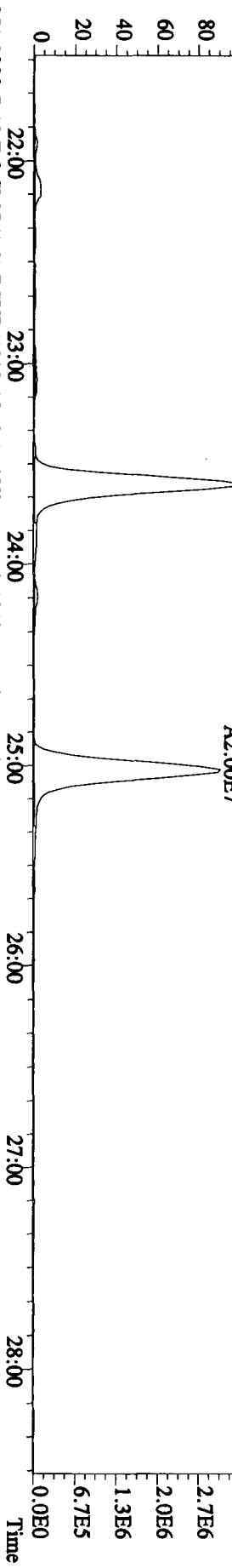
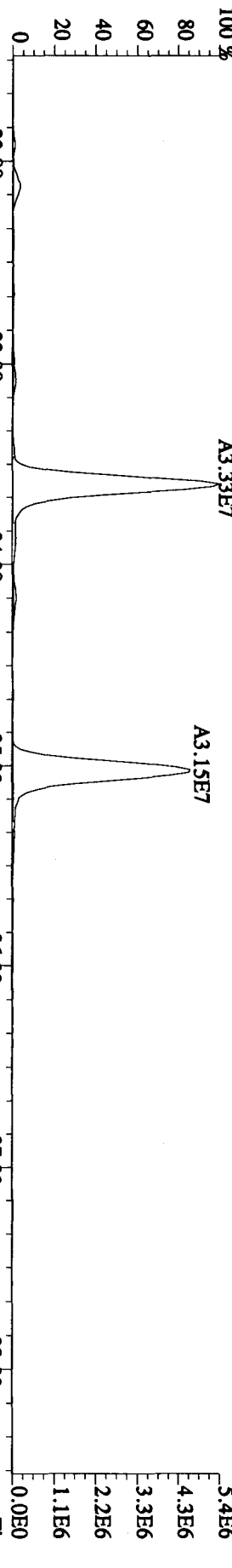


File:04J10A10A1D5 #1-410 Acq: 4-JAN-2010 20:39:01 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LQ2LE-1-AG :G9L120491-8D Exp:DIOXIN
 319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4040.0,1.00%,F,T) 100 %

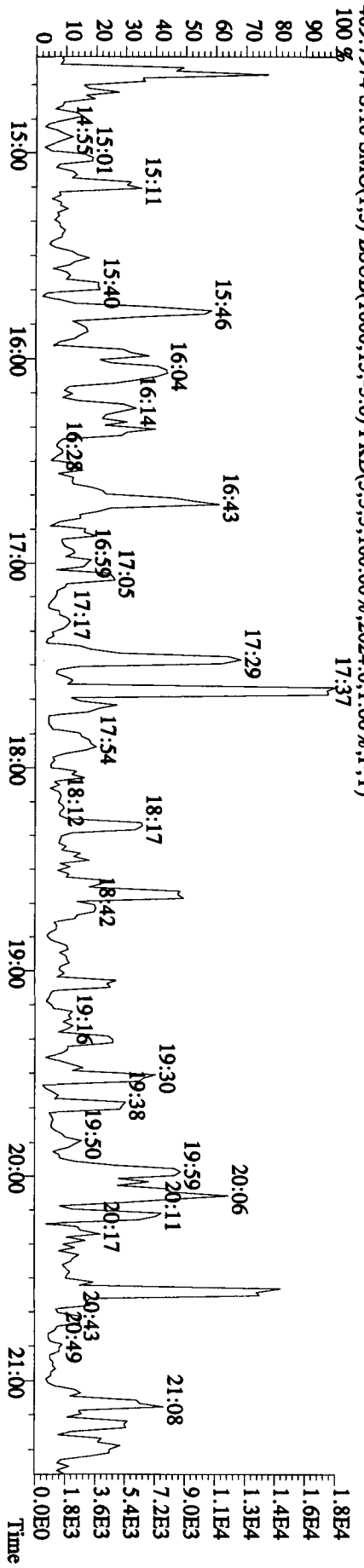
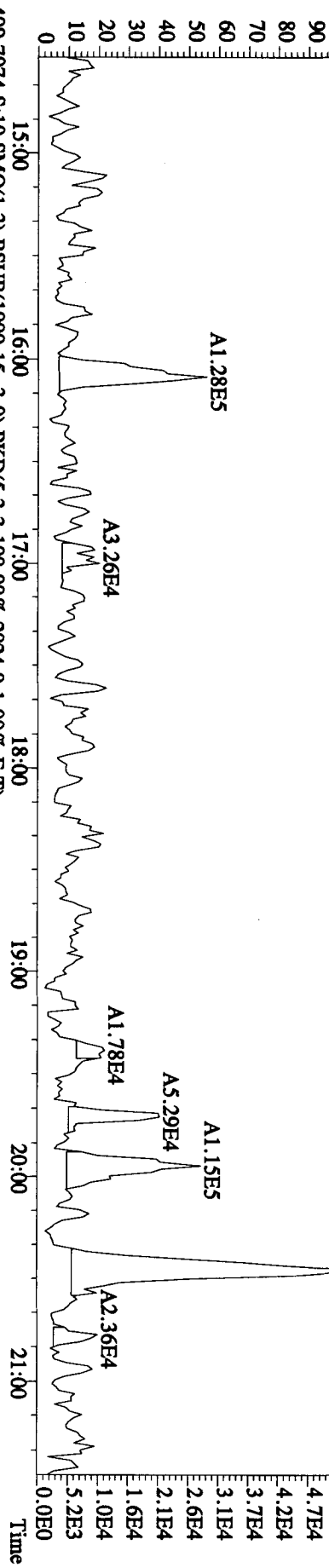
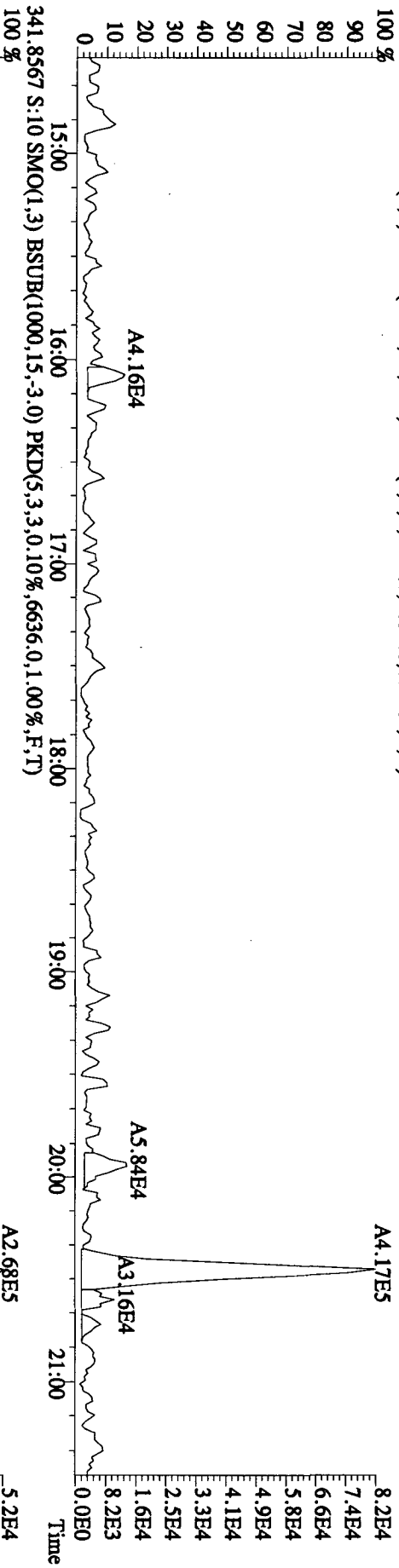


File:041A10A1D5 #1-410 Acq: 4-JAN-2010 20:39:01 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LQ2LE-1-AG :G9L120491-8D Exp:DIOXIN
 327.8847 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6712,0,1.00%,F,T)
 100 %

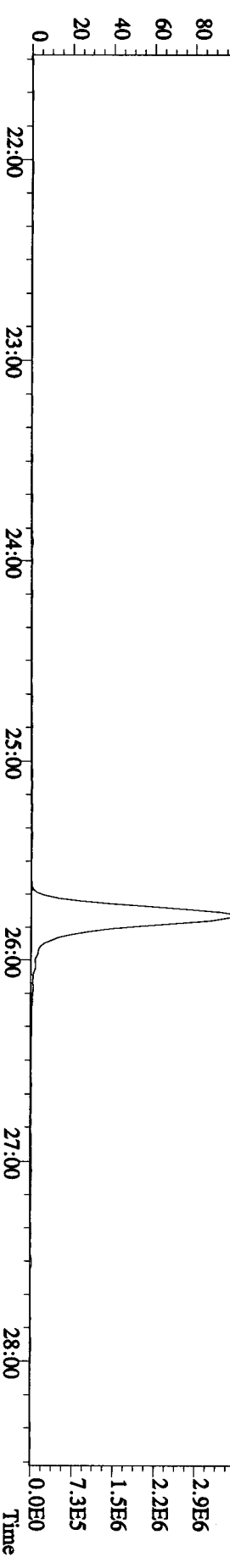
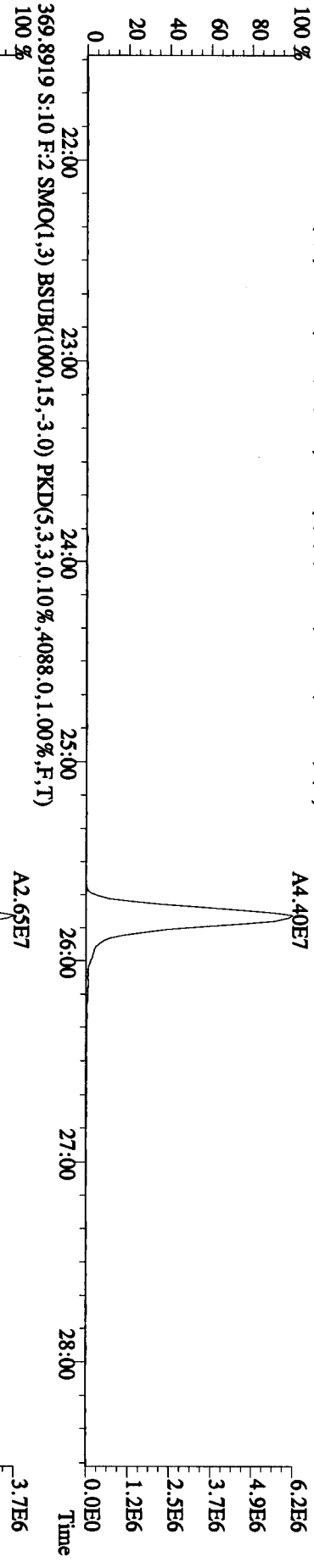
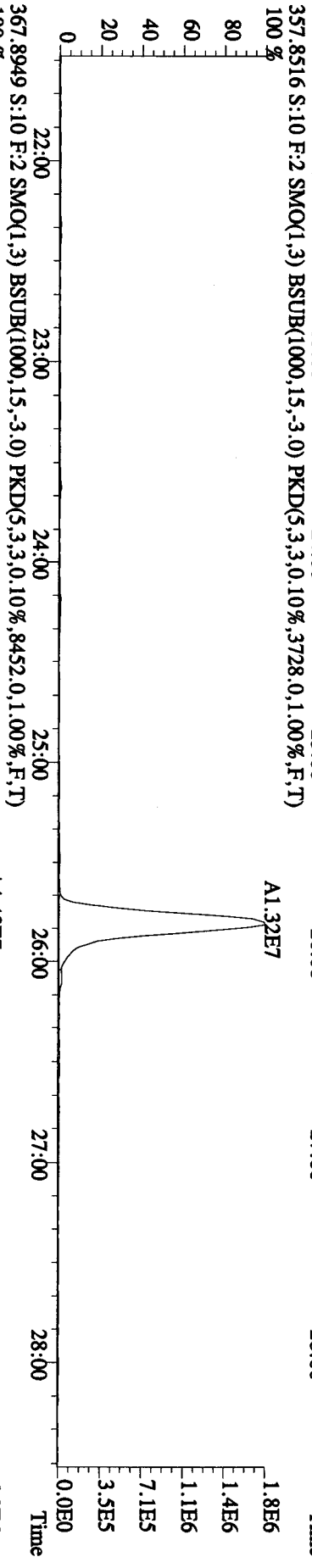
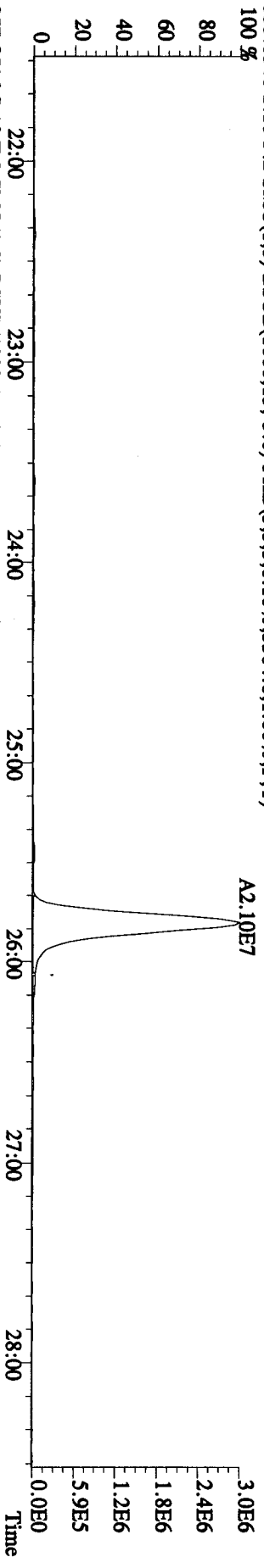


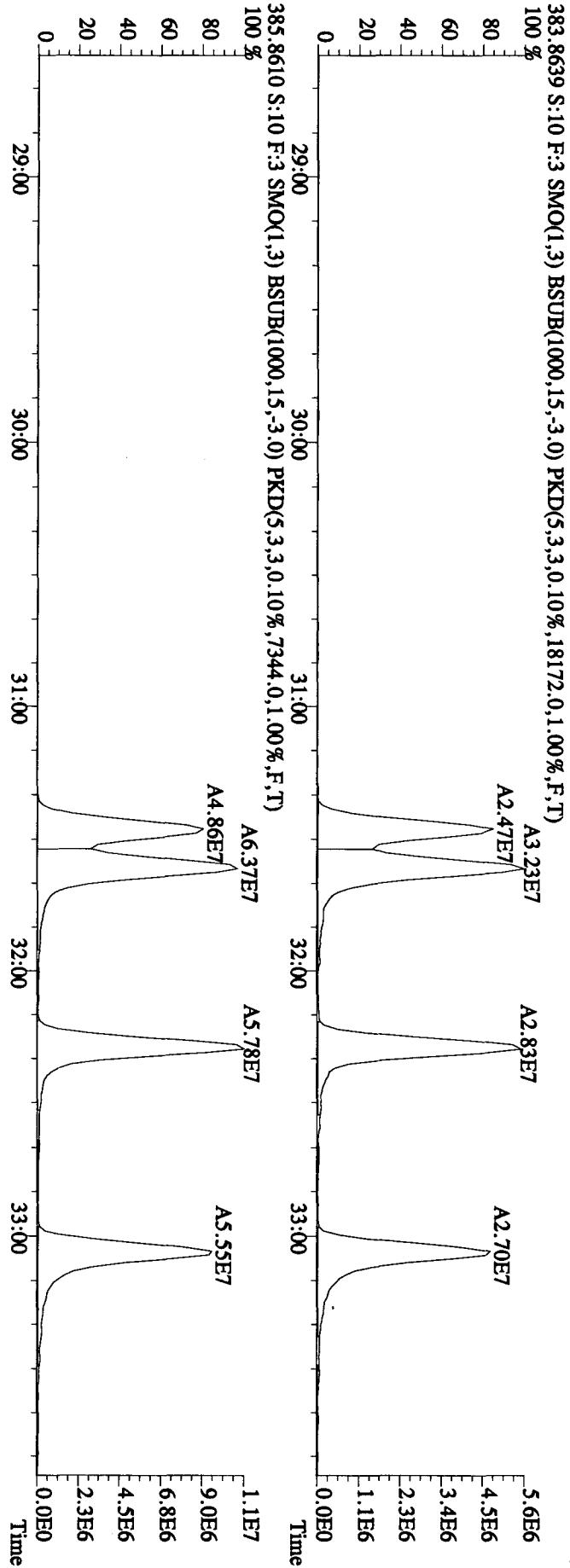
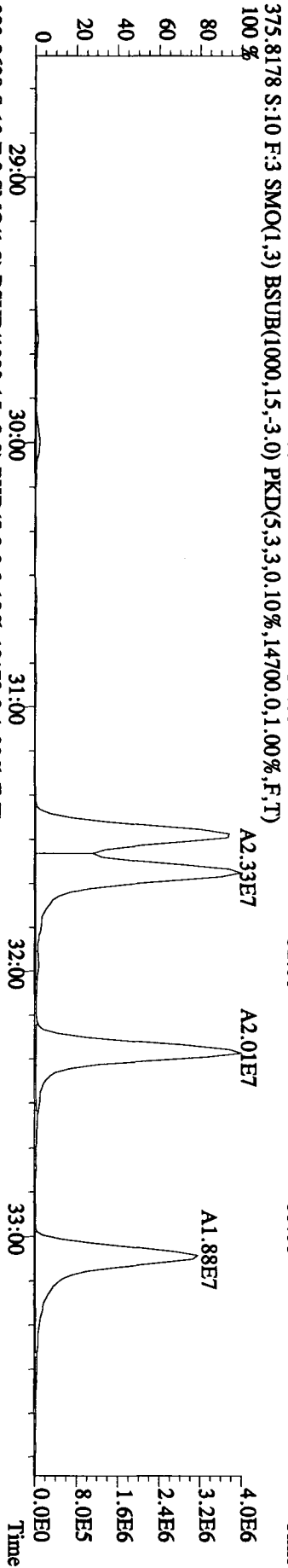
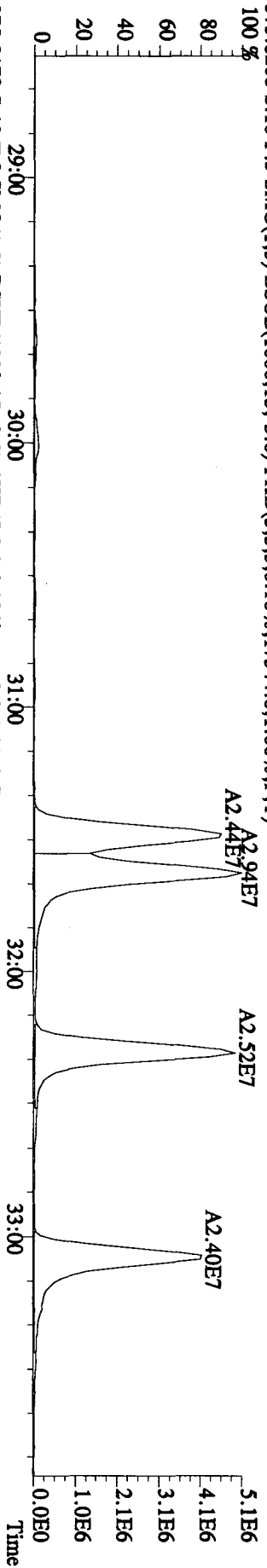


File:04JA10A1D5 #1-410 Acq: 4-JAN-2010 20:39:01 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LO2LE-1-AG :G9L120491-8D Exp:DIOXIN
 339.8597 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4632,0.1,00%,F,T)
 100 %

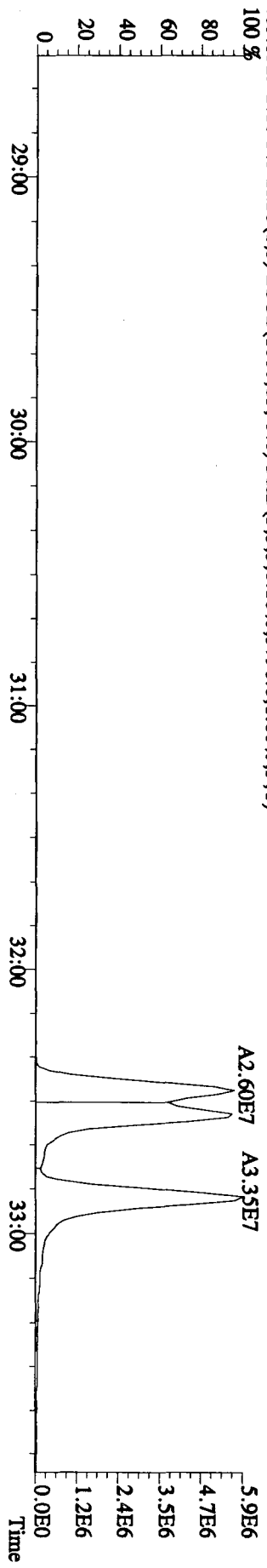
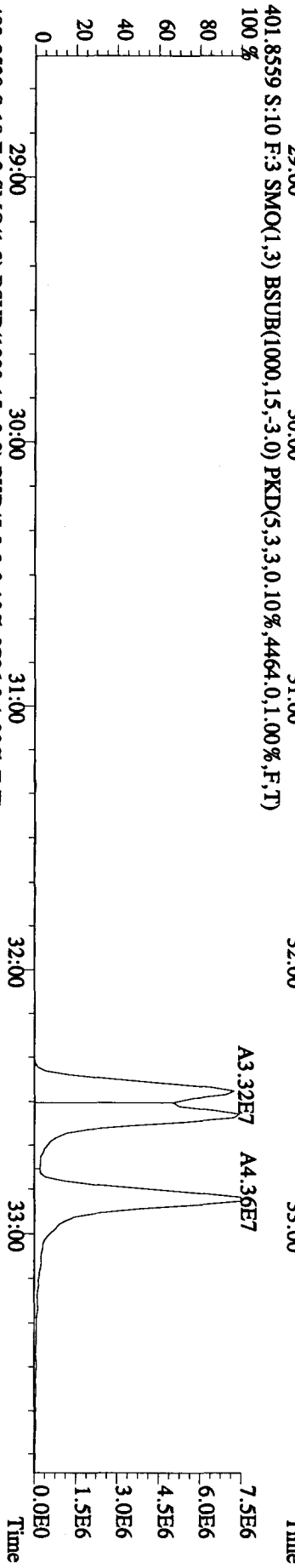
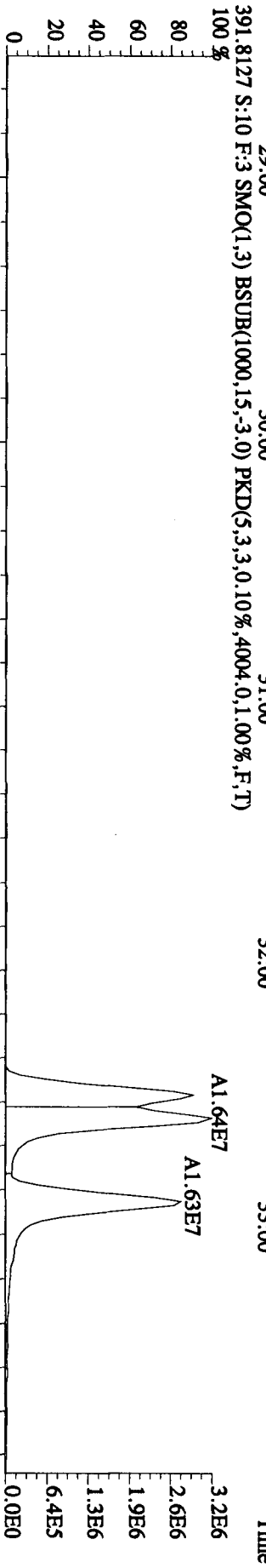
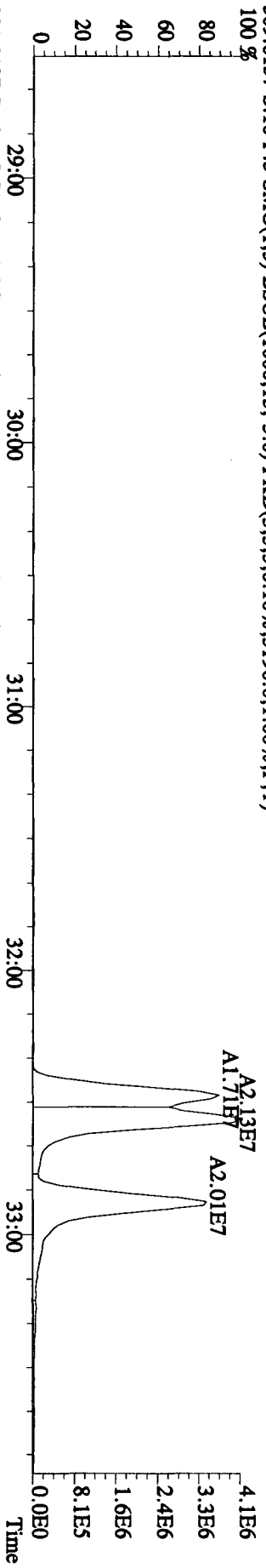


File:04JA10A1D5 #1-496 Acq: 4-JAN-2010 20:39:01 GC EI + Voltage SIR 70SE
 Sample#10 Text:LOZLE-1-AG :G9L120491-8D Exp:DIOXIN
 355.8546 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5504.0,1.00%,F,T)

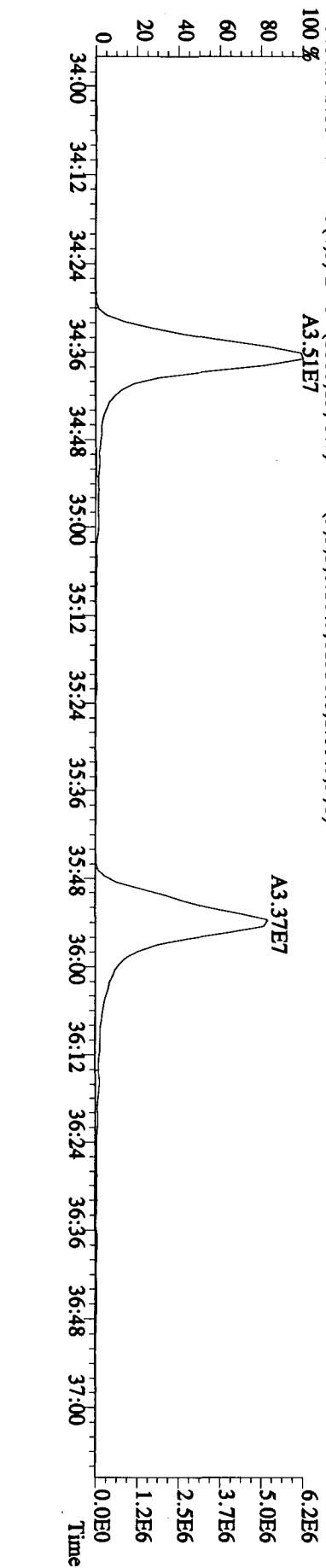
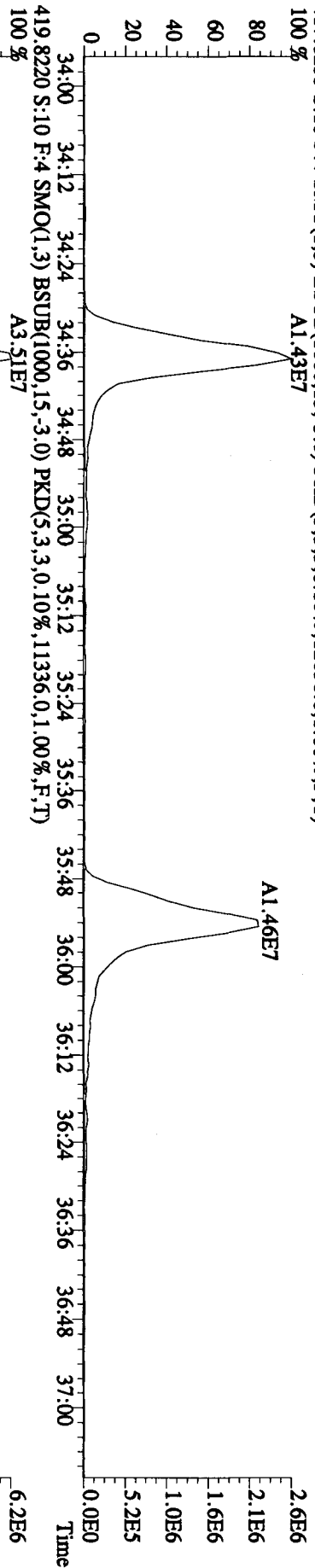
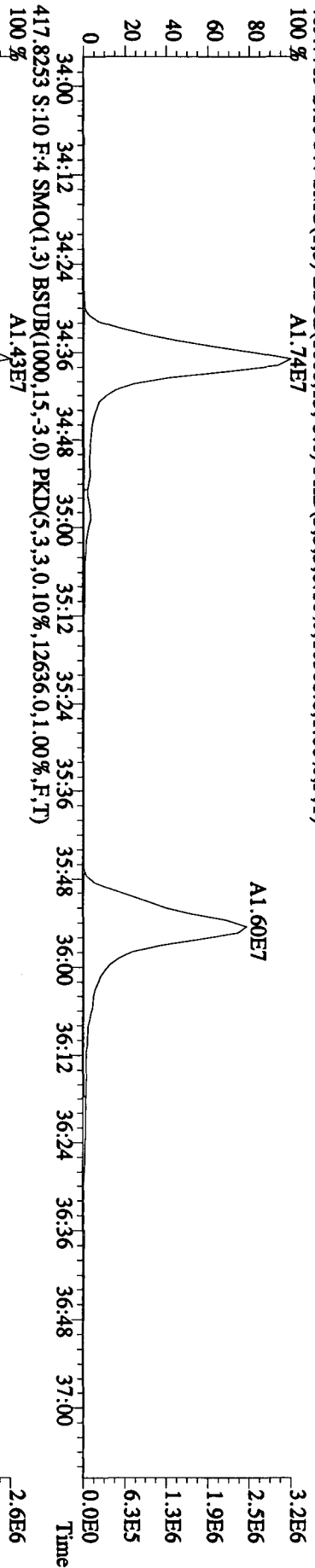
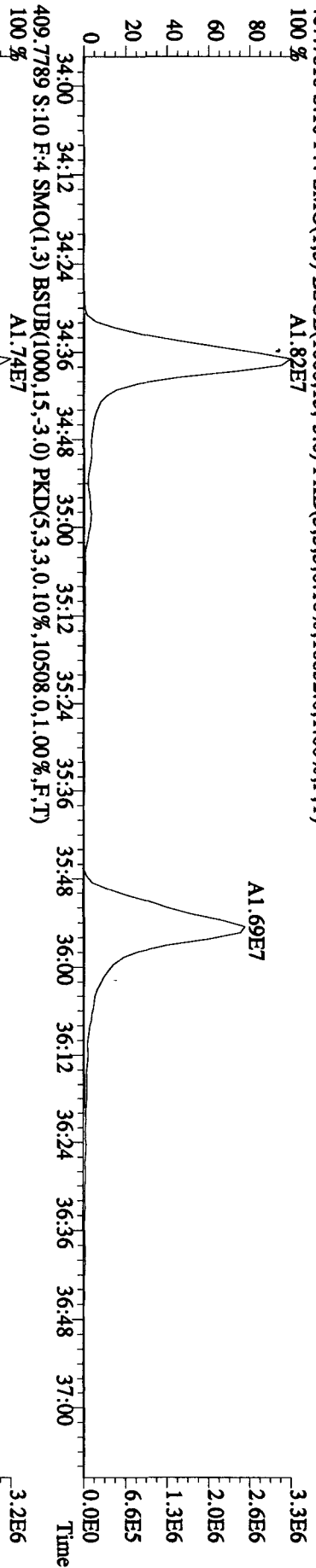




File:04JA10A1D5 #1-361 Acq: 4-JAN-2010 20:39:01 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LQ2LE-1-AG :G9L120491-8D Exp:DIOXIN
 389.8157 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3196.0,1.00%,F,T)

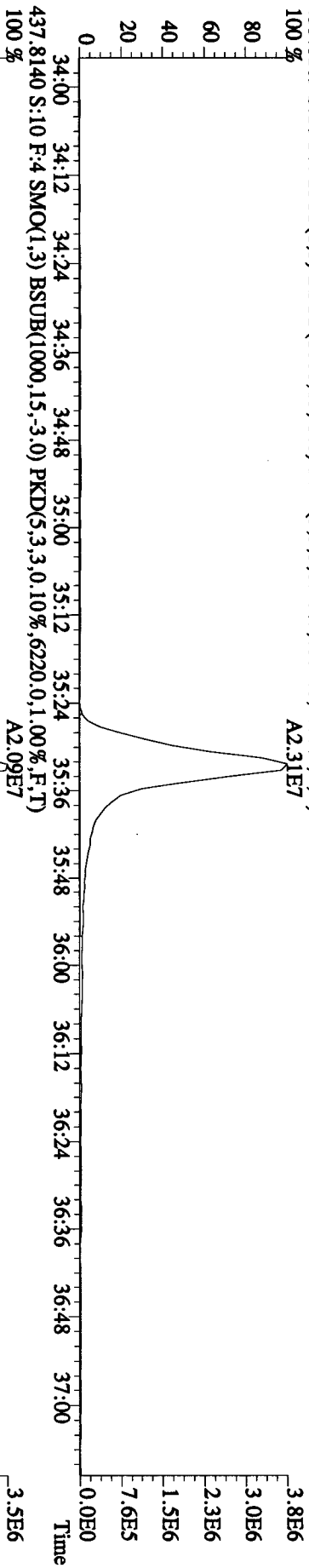
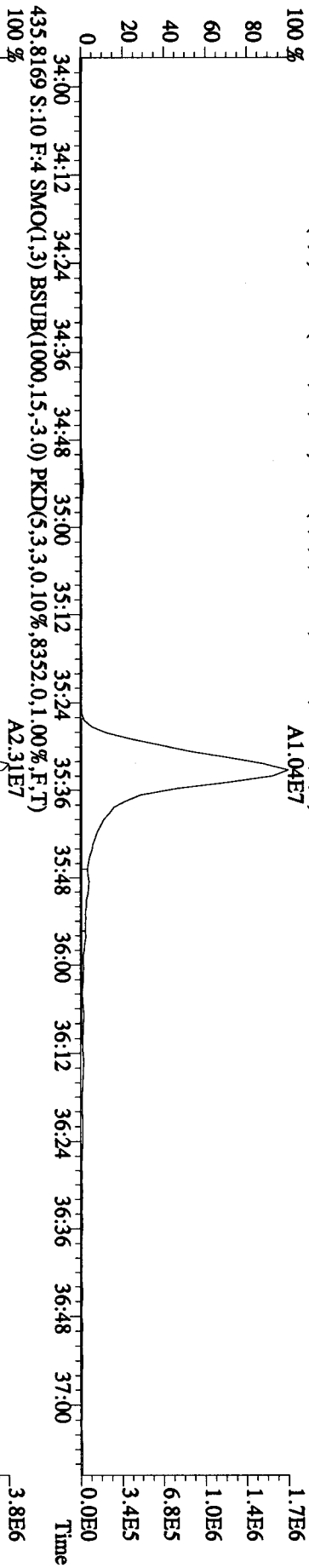
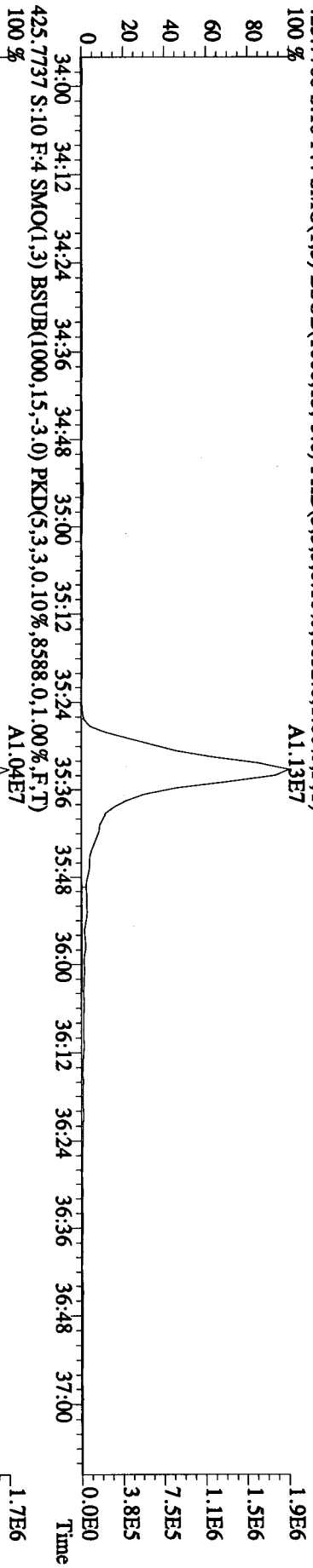


File:04JA10A1D5 #1-228 Acq: 4-JAN-2010 20:39:01 GC EI + Voltage SIR 70SE
 Sample#10 Text:LQ2LE-1-AG :G9L120491-8D Exp:DIOXIN
 407.7818 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10852.0,1.00%,F,T)
 100 % A1.82E7

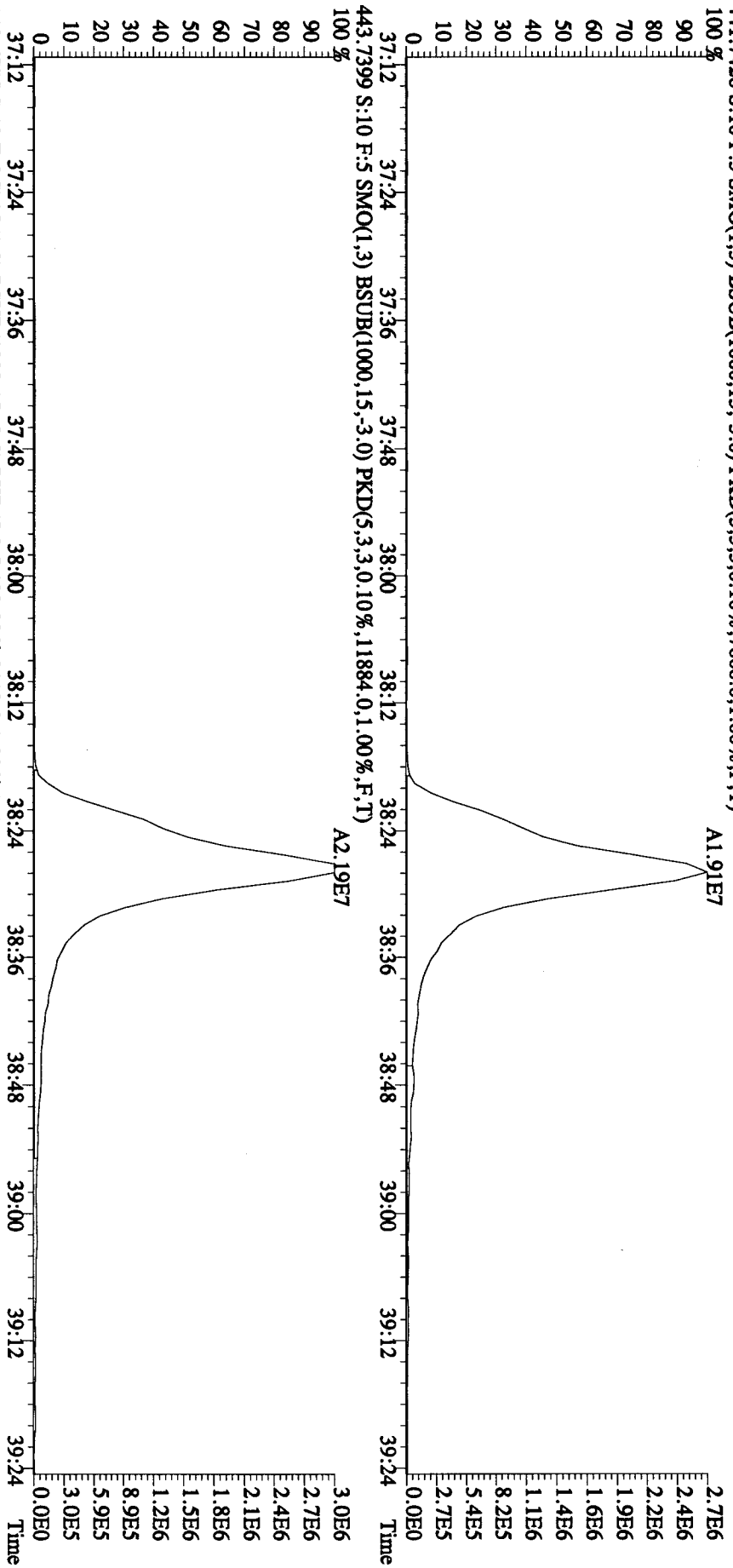


File:041A10A1D5 #1-228 Acq: 4-JAN-2010 20:39:01 GC EI+ Voltage SIR 70SE

Sample#10 Text:LO2LE-1-AG :G9L120491-8D Exp:DIOXIN
423.7766 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6032,0,1,00%,F,T)
100% A1.13E7



100%



A1.91E7

A2.19E7

2.7E6

2.4E6

2.2E6

1.9E6

1.6E6

1.4E6

1.1E6

8.2E5

5.4E5

2.7E5

0.0E0

3.0E6

2.7E6

2.4E6

2.1E6

1.8E6

1.5E6

1.2E6

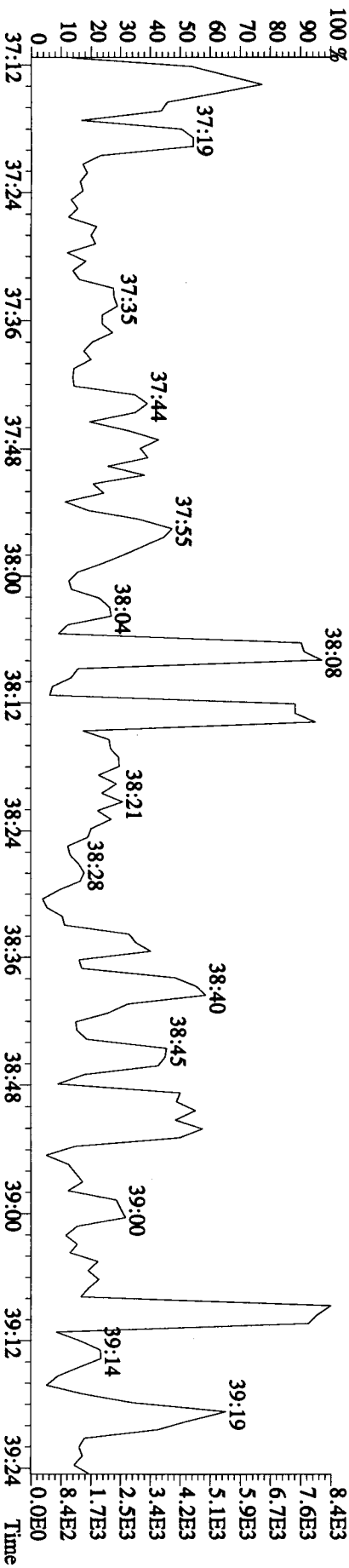
8.9E5

5.9E5

3.0E5

0.0E0

513.6775 S:10 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,5,100.00%,2112.0,1.00%,F,T)



38:08

39:19

8.4E3

7.6E3

6.7E3

5.9E3

5.1E3

4.2E3

3.4E3

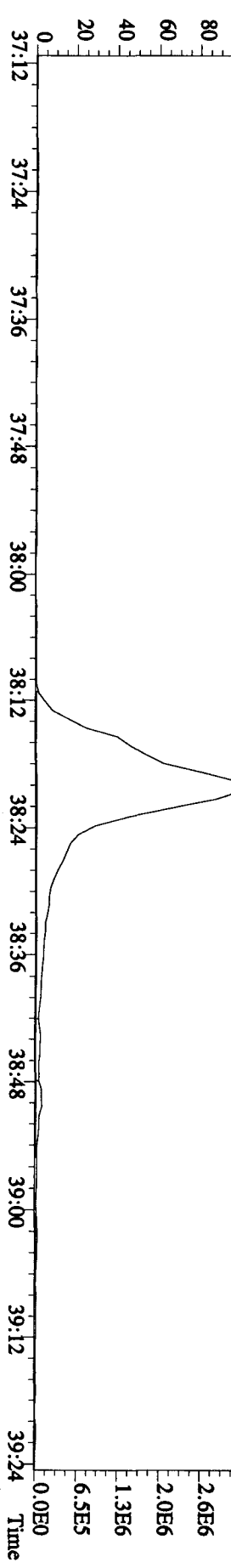
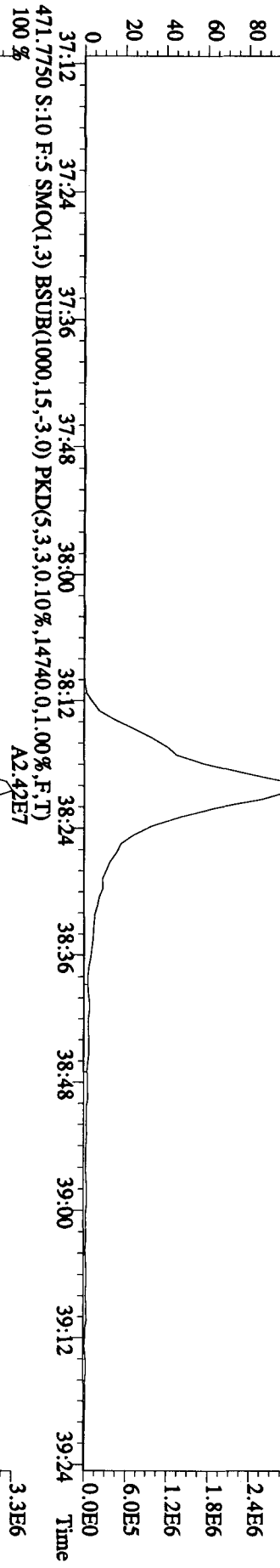
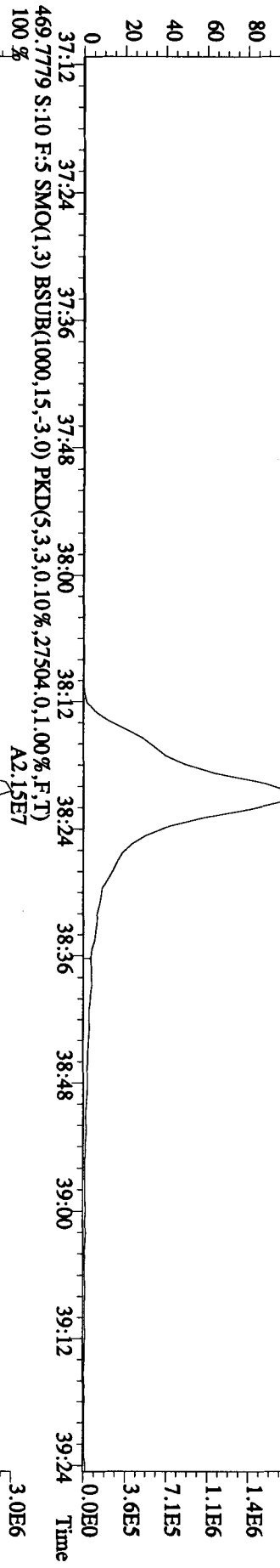
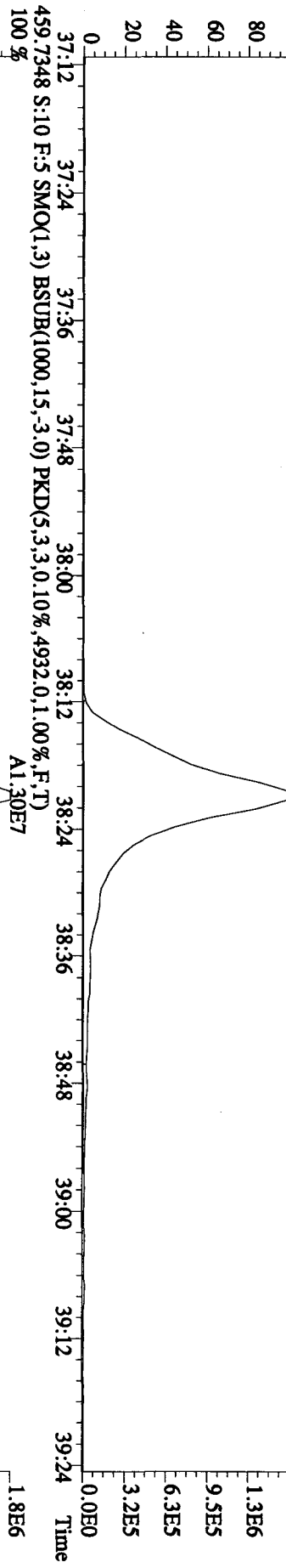
2.5E3

1.7E3

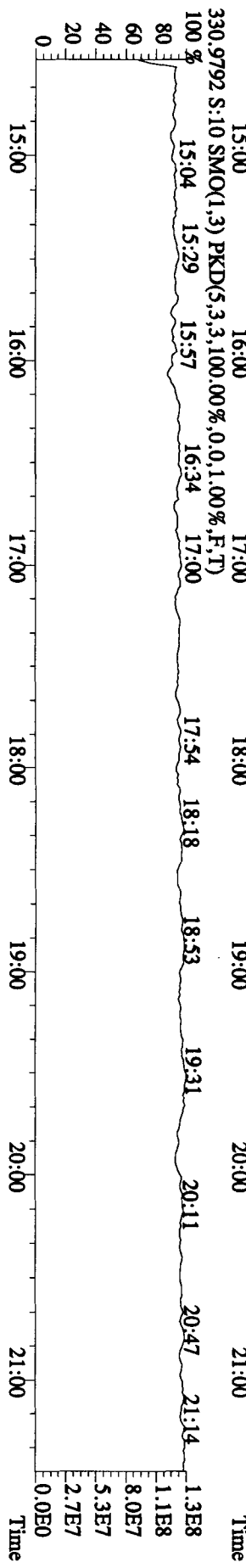
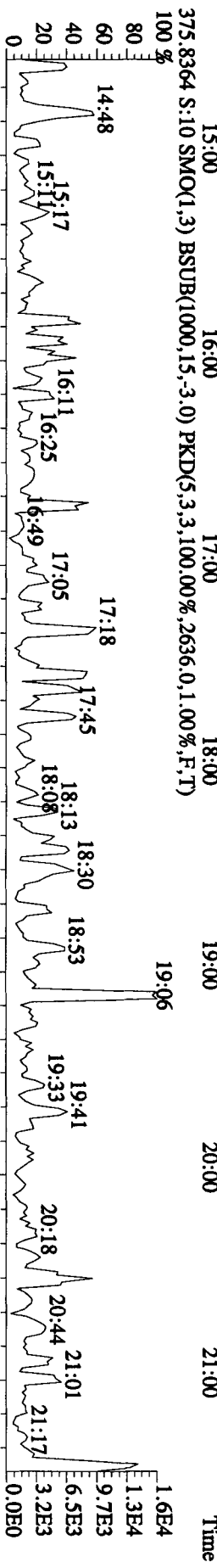
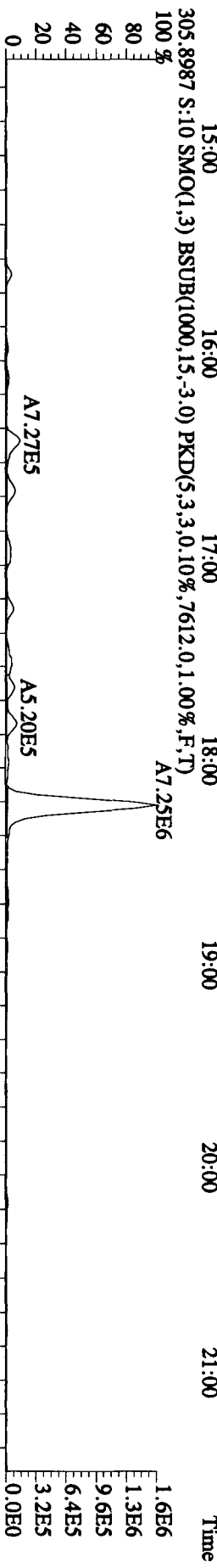
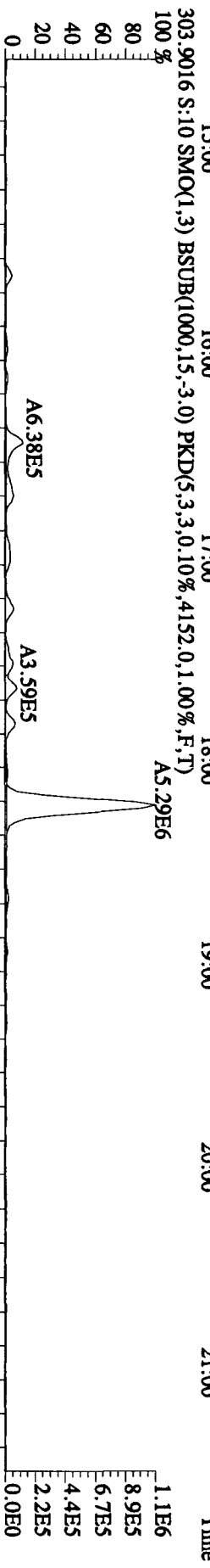
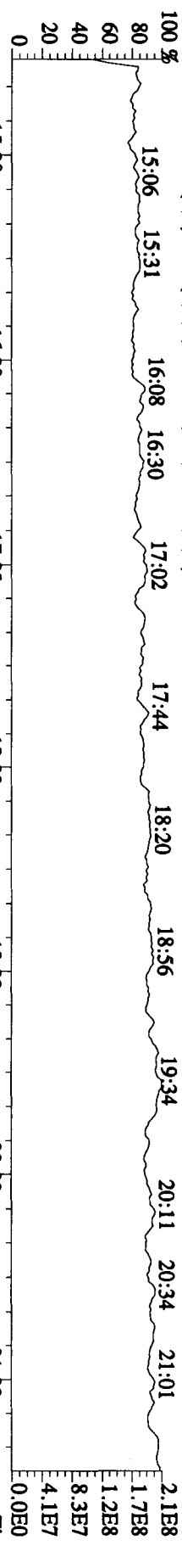
8.4E2

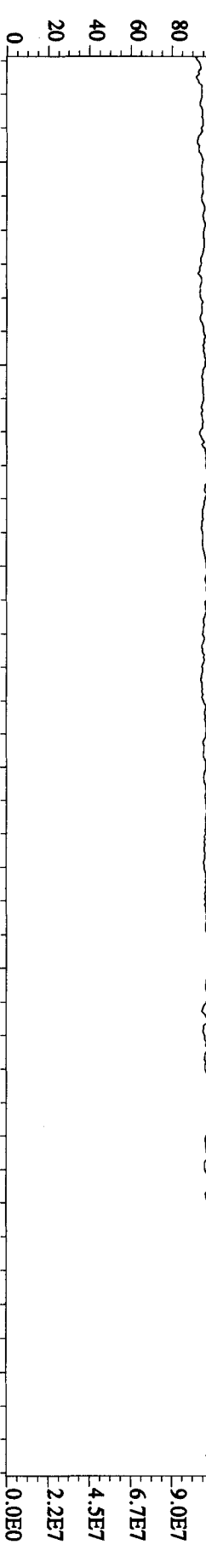
0.0E0

File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 20:39:01 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LOZLE-1-AG :G9L120491-8D Exp:DIOXIN
 457.7377 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6680,0,1,00%,F,T)
 100 % A1.20E7

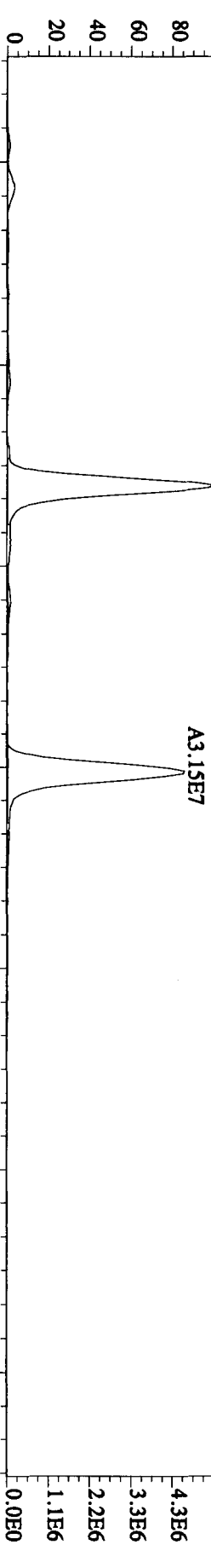


File:04JAI0AIDS #1-410 Acq: 4-JAN-2010 20:39:01 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LOZLE-1-AG :G9L120491-8D Exp:DIOXIN
 292.9825 S:10 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

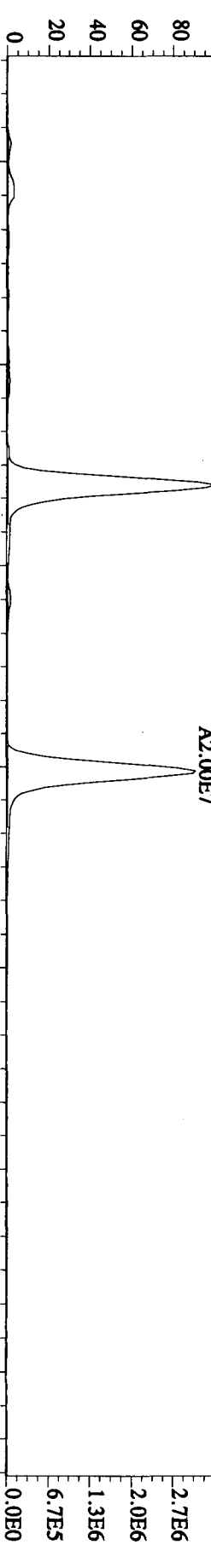




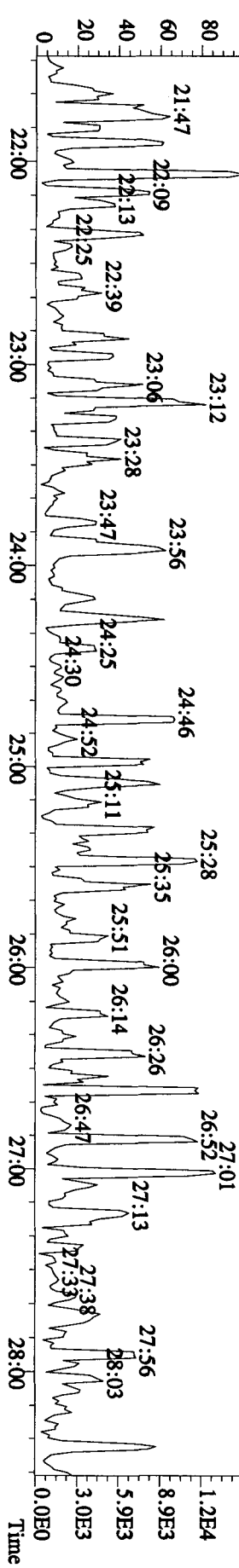
339.8597 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6032.0,1.00%,F,T)



341.8567 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9320.0,1.00%,F,T)



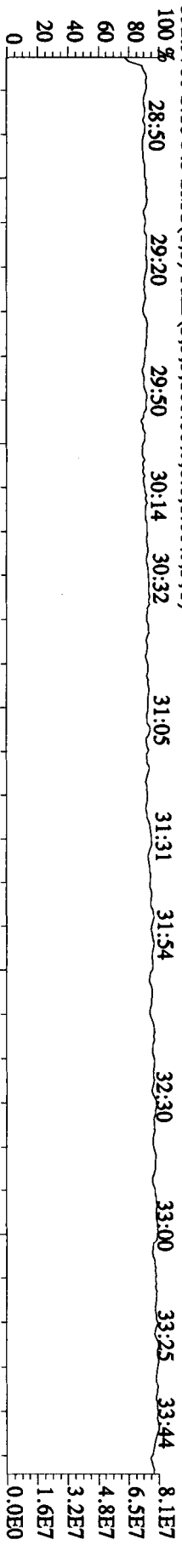
409.7974 S:10 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1852.0,1.00%,F,T)



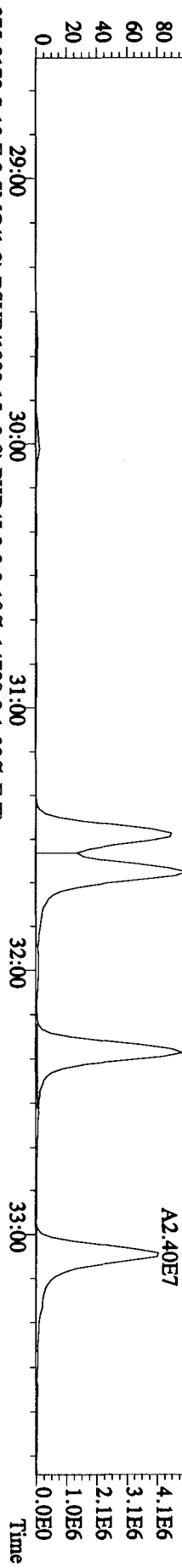
File:04JAI01AID5 #1-361 Acq: 4-JAN-2010 20:39:01 GC EI+ Voltage SIR 70SE

Sample#10 Text:LO2LE-1-AG :G9L120491-8D Exp:DIOXIN

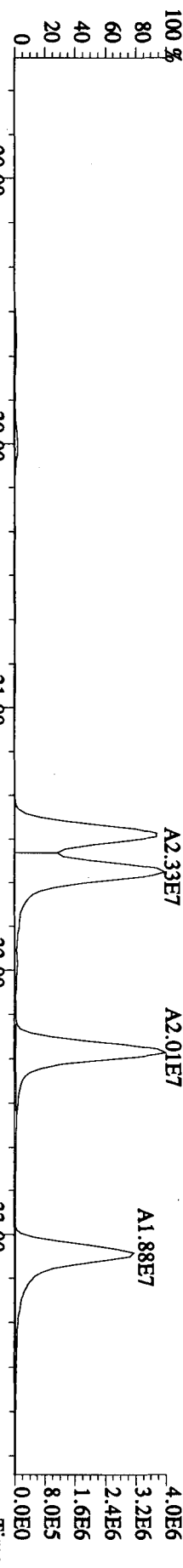
392.9760 S:10 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



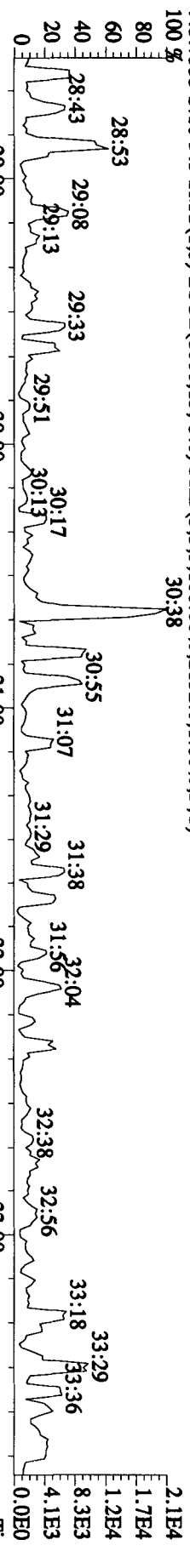
373.8208 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17344.0,1.00%,F,T)



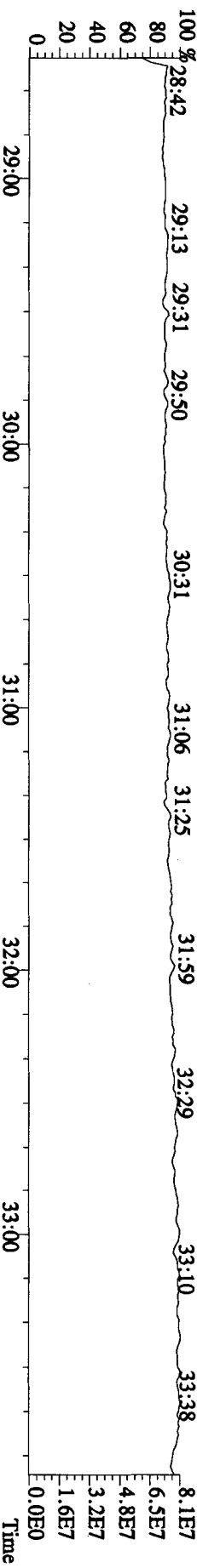
375.8178 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14700.0,1.00%,F,T)

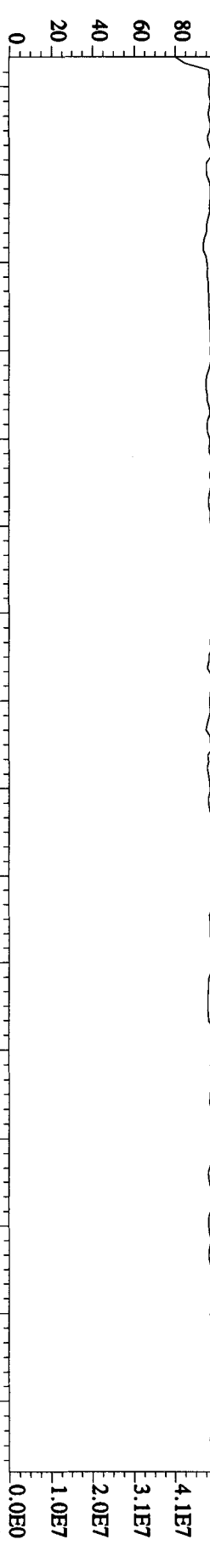


445.7555 S:10 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2132.0,1.00%,F,T)

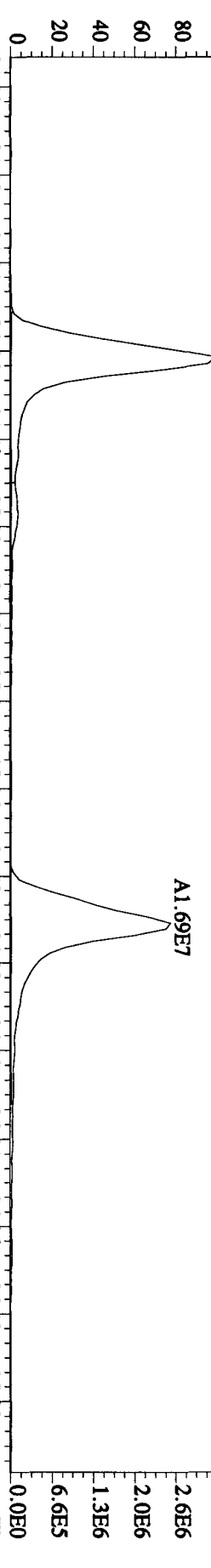


380.9760 S:10 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

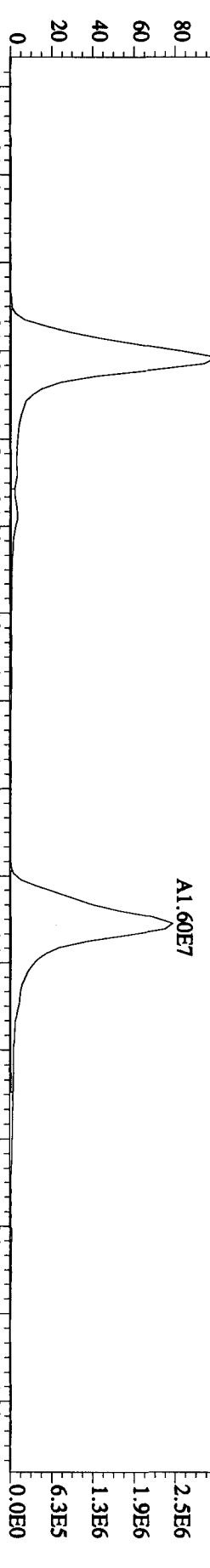




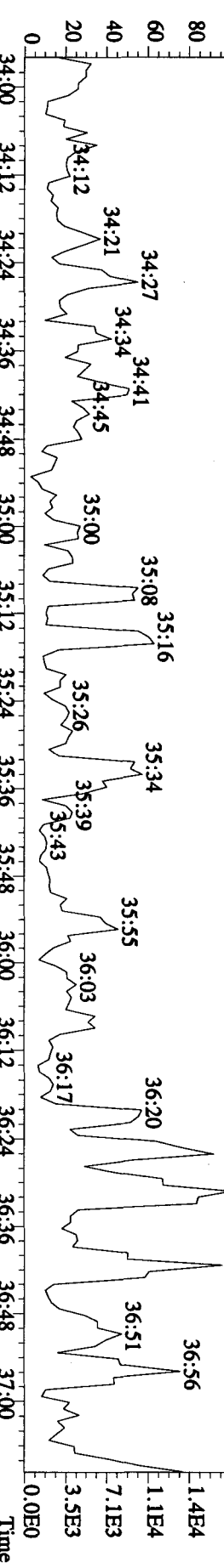
407.7818 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10852.0,1.00%,F,T)



409.7789 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10508.0,1.00%,F,T)



479.7165 S:10 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,4500.0,1.00%,F,T)



File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 20:39:01 GC EI + Voltage SIR 70SE

Sample#10 Text:LQ2LE-1-AG :G9L120491-8D Exp:DIOXIN

454.9728 S:10 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 37:18 37:26 37:37 37:48 38:00

38:15 38:23 38:31 38:42 38:51

39:11 39:20 5.1E7

4.6E7

4.1E7

3.5E7

3.0E7

2.5E7

2.0E7

1.5E7

1.0E7

5.1E6

0.0E0

0 10 20 30 40 50 60 70 80 90 0.0E0 5.2E7 4.7E7 4.2E7 3.6E7 3.1E7 2.6E7 2.1E7 1.6E7 1.0E7 5.2E6

442.9728 S:10 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 37:12 37:16 37:24 37:36 37:46 38:00 38:04 38:12 38:14 38:21 38:33 38:48 39:00 39:02 39:12 39:16 39:24

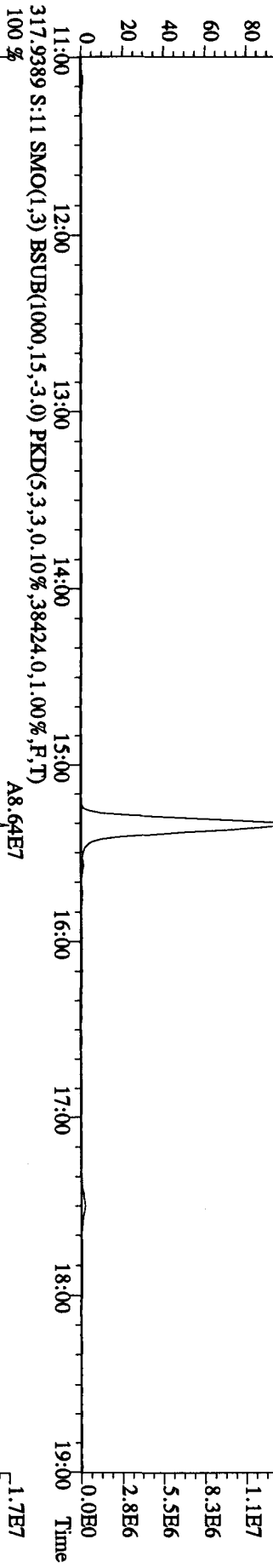
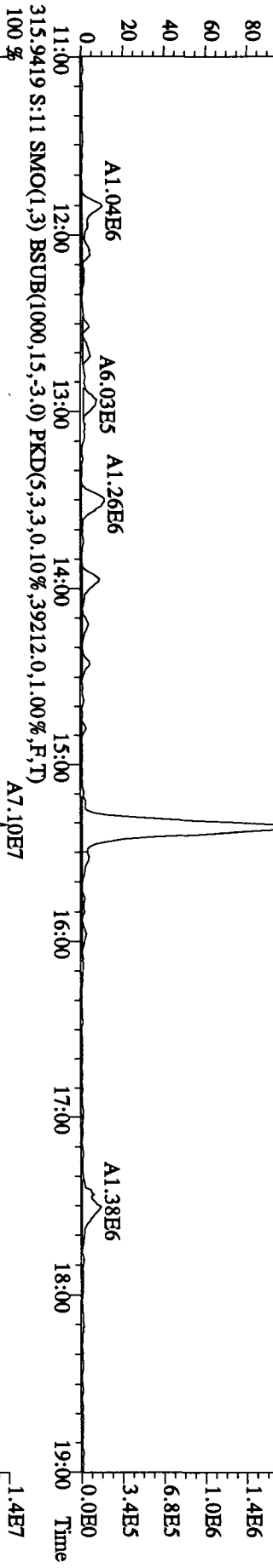
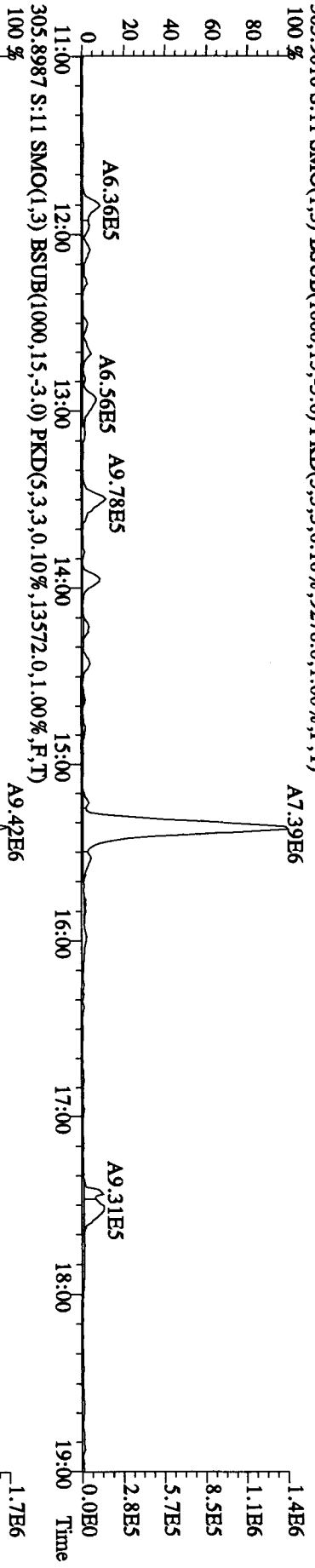
37:12 37:24 37:36 37:48 38:00 38:12 38:24 38:36 38:48 39:00 39:12 39:24 Time

Run text: LQ2LE-1-AG Sample text: LQ2LE-1-AG :G9L120491-8D
 Run #12 Filename: 05JA105D2 S: 11 I: 1 Results: 05JA105D2DB225
 Acquired: 5-JAN-10 16:23:14 Processed: 5-JAN-10 19:06:32
 Run: 05JA105D2 Analyte: DB225HRS Cal: DB2250104105D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 10.17007g

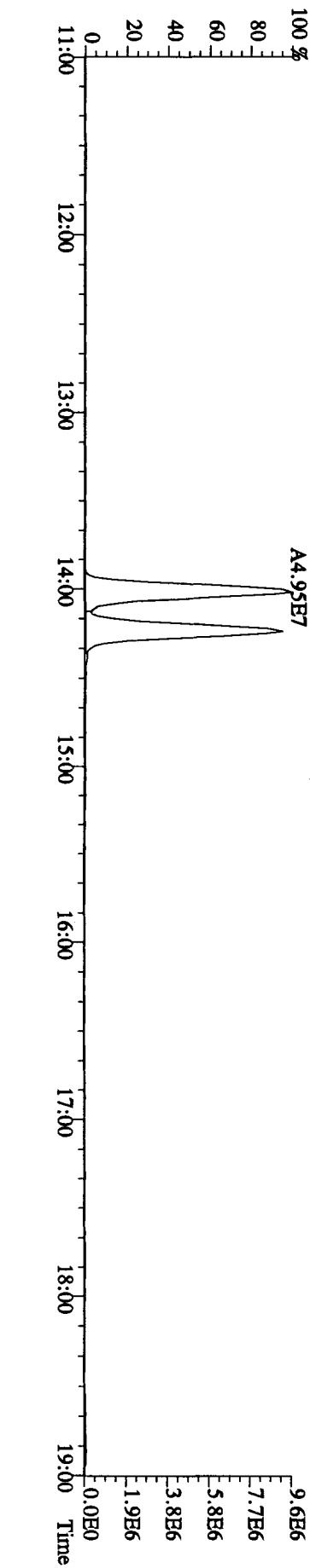
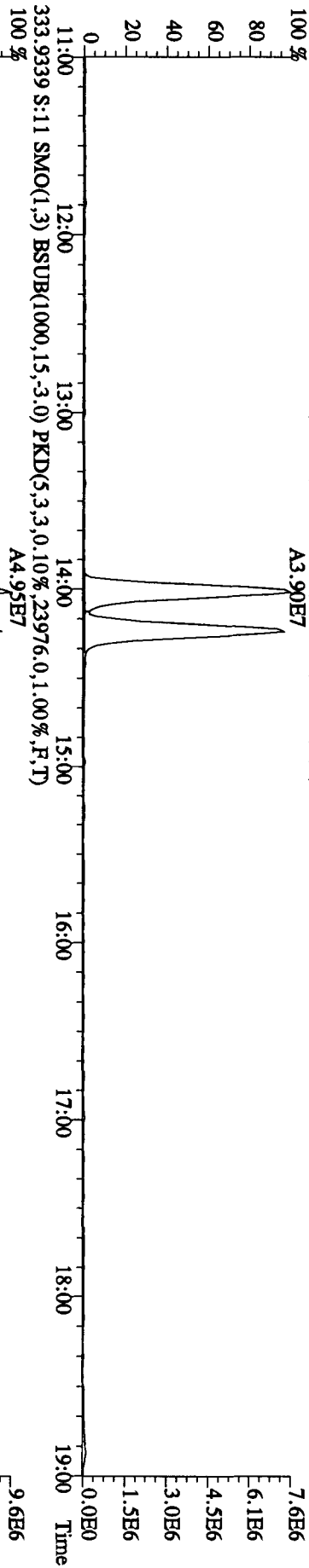
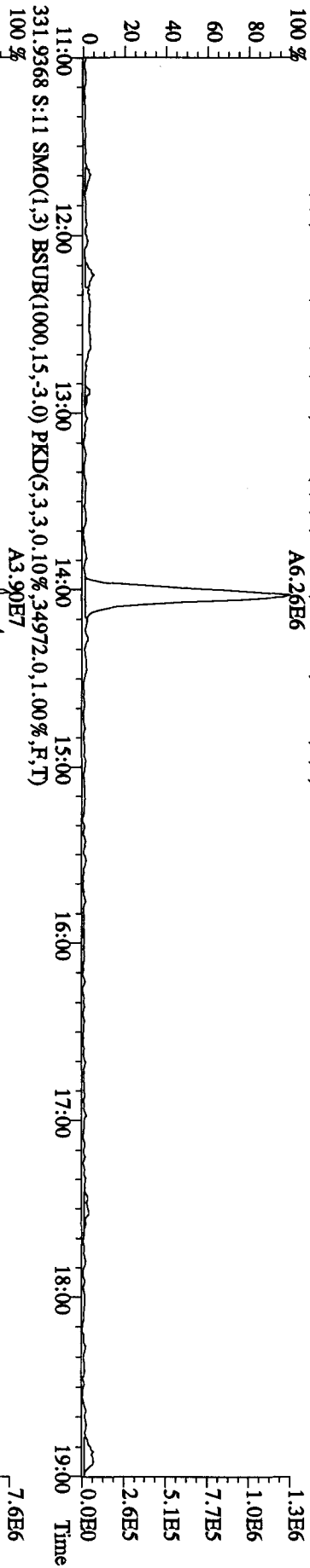
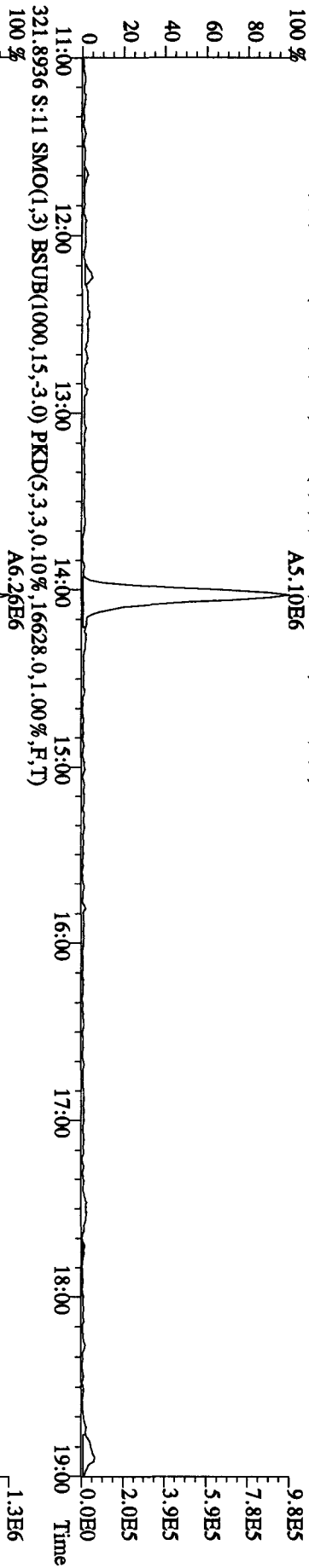
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	82277900	0.81 y	14:14	-	3.74	-	-	n
13C-2,3,7,8-TCDF	157471900	0.82 y	15:21	1.66	113.12	0.84	57.5	n
2,3,7,8-TCDF	16806470	0.78 y	15:22	1.01	✓20.71	0.44	-	n
13C-2,3,7,8-TCDD	88455200	0.79 y	14:01	0.95	111.14	1.11	56.5	n
2,3,7,8-TCDD	11362210	0.81 y	14:02	1.18	21.36	0.81	-	n
37Cl-2,3,7,8-TCDD	111614400	1.00 y	14:02	2.07	64.50	0.29	82.0	n

AK 1/8/10

File:051A105D2 #1-1242 Acq: 5-JAN-2010 16:23:14 GC EI+ Voltage SIR 70SE
 Sample#11 Text:LQ2LE-1-AG :G9L120491-8D Exp:DB225
 303.9016 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9276.0,1.00%,F,T)
 100 %



File:051A105D2 #1-1242 Acq: 5-JAN-2010 16:23:14 GC EI+ Voltage SIR 70SE
 Sample#11 Text:LQ2LB-1-AG :G9L120491-8D Exp:DB225
 319.8965 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10992.0,1.00%,F,T)
 100% A5.10E6



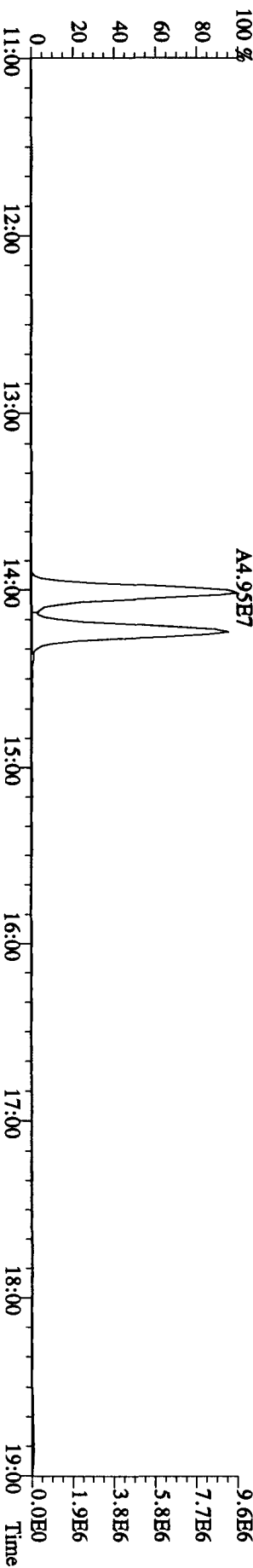
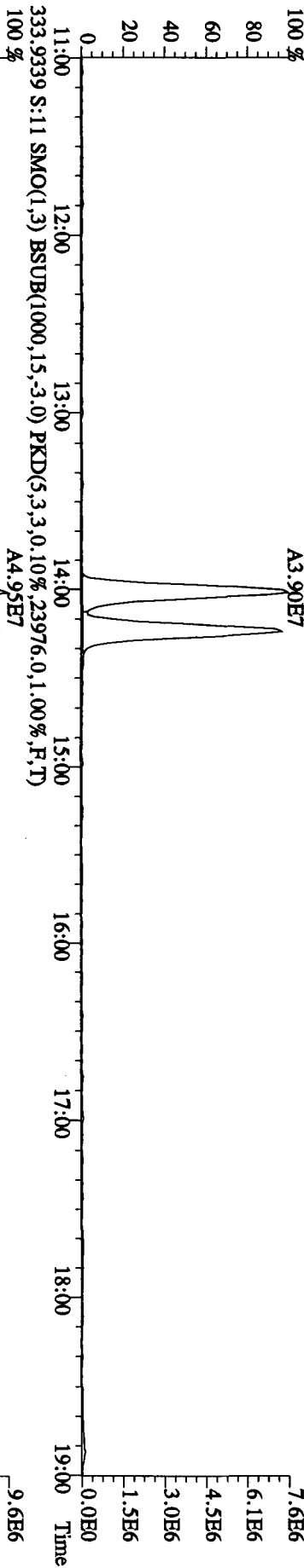
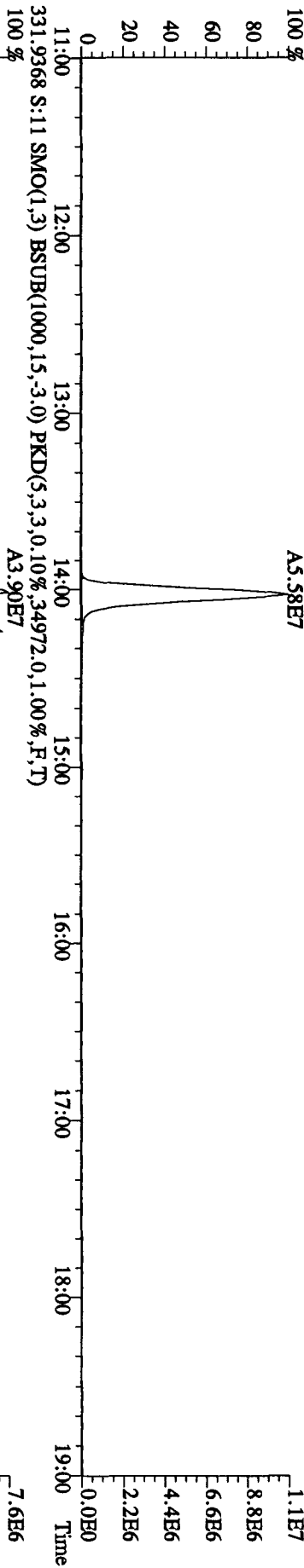
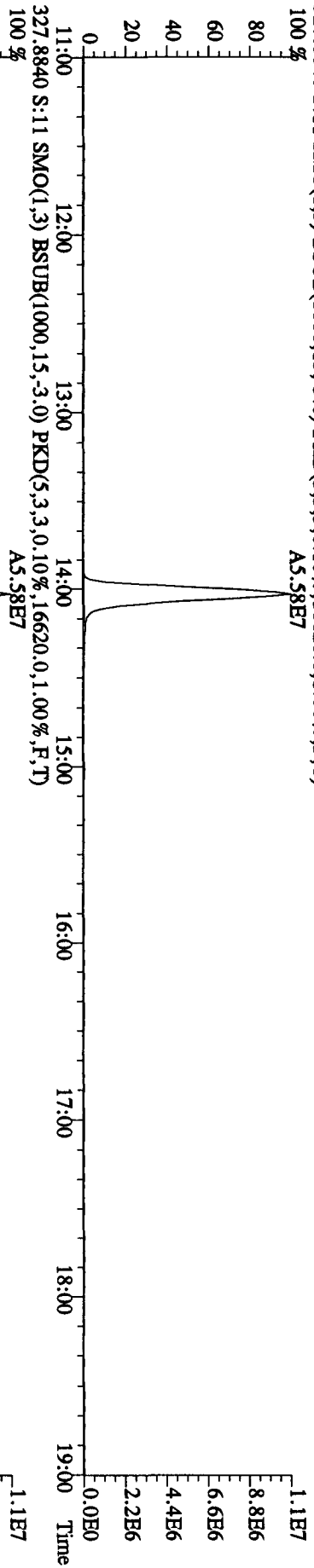
File:051A105D2 #1-1242 Acq: 5-JAN-2010 16:23:14 GC EI+ Voltage SIR 70SE

Sample#11 Text:LO2LE-1-AG :G9L120491-8D

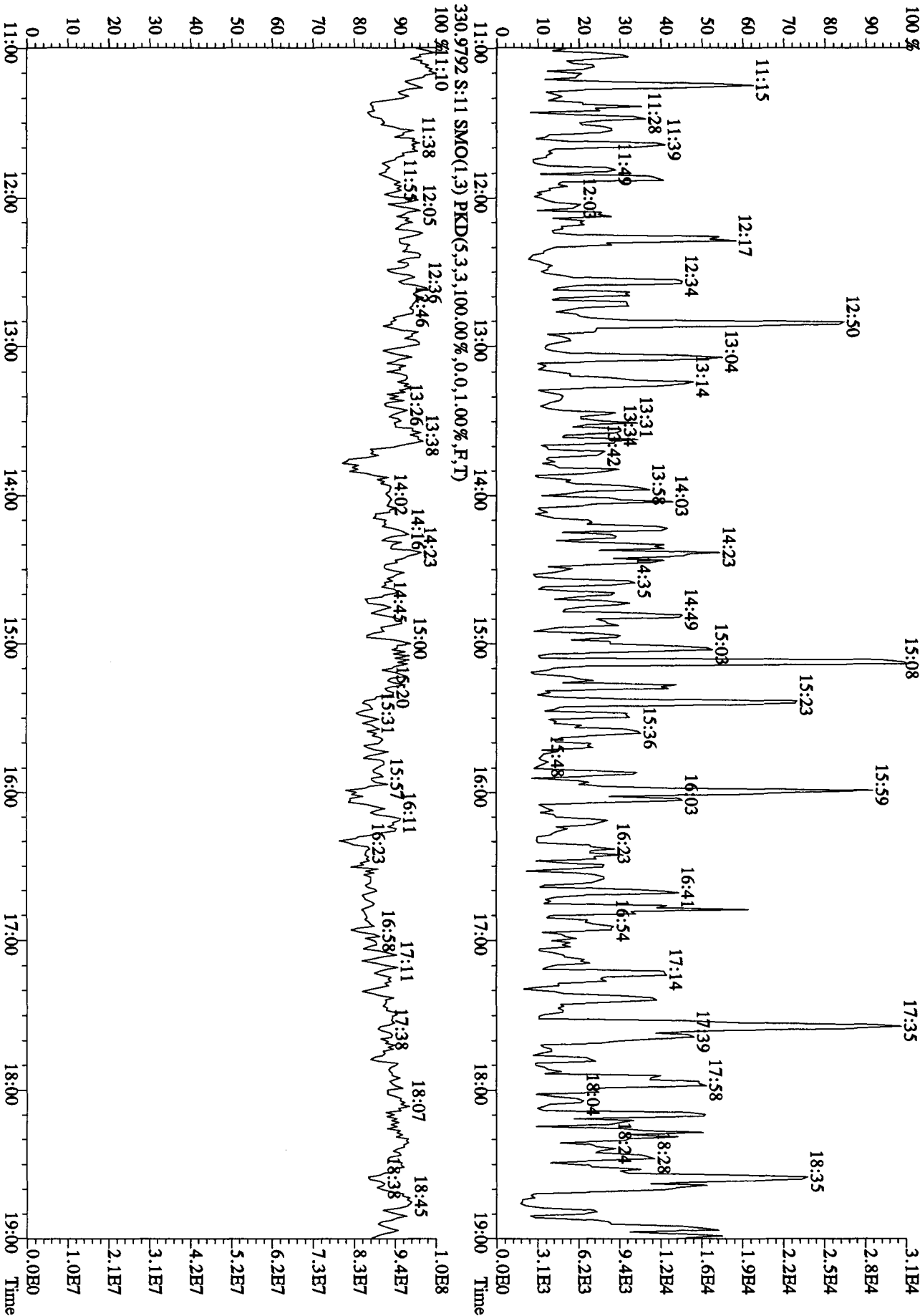
Exp:DB225

327.8840 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16620.0,1.00%,F,T)

100% A5.58E7



File:051A105D2 #1-1242 Acq: 5-JAN-2010 16:23:14 GC EI+ Voltage SIR 70SE
 Sample#11 Text:LO2LE-1-AG :G9L120491-8D Exp:DB225
 375.8364 S:11 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,7000,0.1,0.0%,F,T)



Daily Calibration Checklist Dioxin Methods

Method ID 8290
 Column ID DB5
 STD ID ST0104, ST0104A
 Analyzed by M.G.
 Std. Pkg. By M.G.
 Std. Pkg. Reviewed By JRB

Associated ICAL 8290123109105
 Instrument ID 105
 STD Solution 09DXN425
 Date Analyzed 1/4/10
 Date Std. Pkg. Assembled 1/5/10
 Date Std. Pkg. Reviewed 1/5/10

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?**	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (for 1613B only)	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: ST0104 File text: ST0104 :CS3 09DXN425
 Run #6 Filename 04JA10A1D5 S: 1 I: 1
 Acquired: 4-JAN-10 14:22:14 Processed: 4-JAN-10 17:52:25
 Run: 04JA10A1D5 Analyte: 8290 Cal: 82901231091D5 Results: 04JA10A1D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	280509000	0.79 y	18:48	-	100.00	-	n
13C-2,3,7,8-TCDF	393555000	0.77 y	18:14	1.40	100.00	-10.4	n
2,3,7,8-TCDF	32711100	0.77 y	18:15	0.83	10.00	-3.3	n
Total TCDF	33091995	0.55 n	17:18	0.83	10.00	-3.3	n
13C-2,3,7,8-TCDD	277768000	0.80 y	19:00	0.99	100.00	-0.3	n
2,3,7,8-TCDD	23959000	0.77 y	19:01	0.86	10.00	-7.6	n
Total TCDD	24036981	1.34 n	17:52	0.86	10.00	-7.6	n
37Cl-2,3,7,8-TCDD	57146200	1.00 y	19:01	2.04	10.00	-8.2	n
13C-1,2,3,7,8-PeCDF	272612000	1.65 y	23:41	0.97	100.00	-9.4	n
1,2,3,7,8-PeCDF	143725300	1.60 y	23:43	1.05	50.00	5.4	n
2,3,4,7,8-PeCDF	133002900	1.57 y	25:09	0.98	50.00	4.0	n
Total F2 PeCDF	278531326	2.02 n	22:13	1.02	100.00	4.7	n
Total F1 PeCDF	158894	0.26 n	16:08	1.02	100.00	4.7	n
13C-1,2,3,7,8-PeCDD	177387600	1.66 y	25:54	0.63	100.00	-5.1	n
1,2,3,7,8-PeCDD	78532700	1.61 y	25:57	0.89	50.00	-4.7	n
Total PeCDD	78532700	1.61 y	25:57	0.89	50.00	-4.7	n
13C-1,2,3,7,8,9-HxCDD	210580100	1.25 y	32:54	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	184389900	0.53 y	31:31	0.88	100.00	-1.9	n
1,2,3,4,7,8-HxCDF	114973500	1.24 y	31:32	1.25	50.00	4.0	n
1,2,3,6,7,8-HxCDF	147971300	1.26 y	31:41	1.60	50.00	17.0	n
2,3,4,6,7,8-HxCDF	126493700	1.27 y	32:21	1.37	50.00	10.5	n
1,2,3,7,8,9-HxCDF	113974800	1.25 y	33:07	1.24	50.00	-6.8	n
Total HxCDF	503413300	1.24 y	31:32	1.37	200.00	6.3	n
13C-1,2,3,6,7,8-HxCDD	181249500	1.28 y	32:36	0.86	100.00	17.6	n
1,2,3,4,7,8-HxCDD	75662600	1.29 y	32:31	0.83	50.00	-13.9	n
1,2,3,6,7,8-HxCDD	101154000	1.33 y	32:37	1.12	50.00	5.5	n
1,2,3,7,8,9-HxCDD	104826500	1.26 y	32:55	1.16	50.00	-9.3	n
Total HxCDD	282365724	1.29 y	32:31	1.04	150.00	-5.9	n
13C-1,2,3,4,6,7,8-HpCDF	180705700	0.43 y	34:39	0.86	100.00	-0.2	n
1,2,3,4,6,7,8-HpCDF	119935400	1.05 y	34:39	1.33	50.00	3.2	n
1,2,3,4,7,8,9-HpCDF	93377100	1.04 y	35:56	1.03	50.00	-9.0	n
Total HpCDF	213312500	1.05 y	34:39	1.18	100.00	-2.5	n
13C-1,2,3,4,6,7,8-HpCDD	150406500	1.06 y	35:34	0.71	100.00	-5.0	n
1,2,3,4,6,7,8-HpCDD	74587700	1.10 y	35:35	0.99	50.00	-0.6	n
Total HpCDD	74924139	1.53 n	34:56	0.99	50.00	-0.6	n
13C-OCDD	199272800	0.91 y	38:21	0.47	200.00	-16.2	n
OCDF	147488100	0.90 y	38:29	1.48	100.00	3.0	n
OCDD	110569300	0.88 y	38:22	1.11	100.00	0.0	n

Run text: ST0104A File text: ST0104A :CS3 09DXN425
 Run #15 Filename 04JA10A1D5 S: 12 I: 1
 Acquired: 4-JAN-10 22:02:37 Processed: 5-JAN-10 07:52:09
 Run: 04JA10A1D5 Analyte: 8290 Cal: 82901231091D5 Results: 04JA10A1D58290

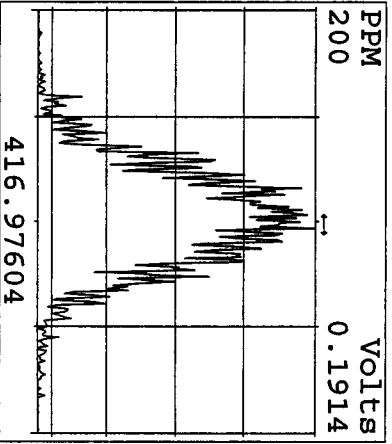
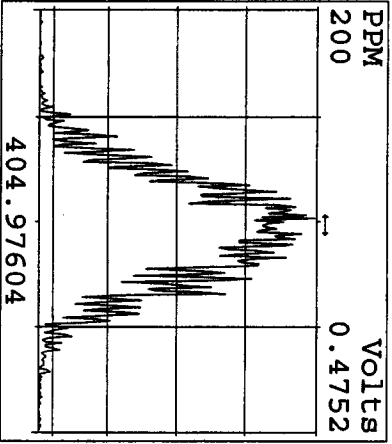
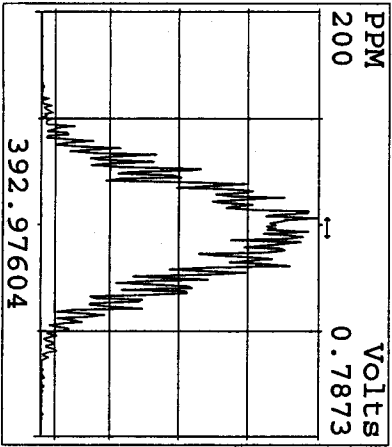
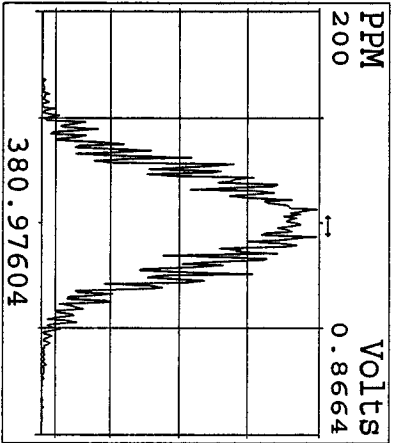
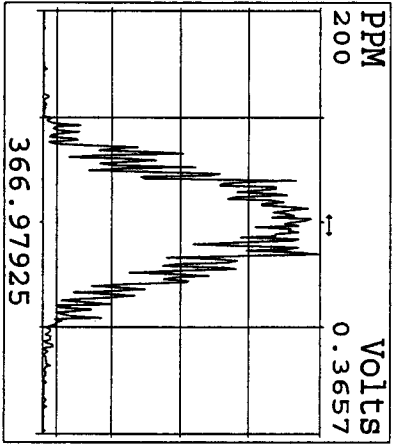
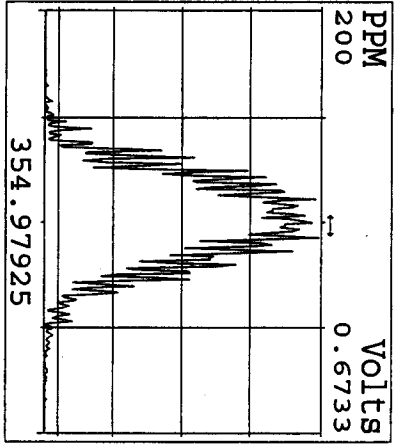
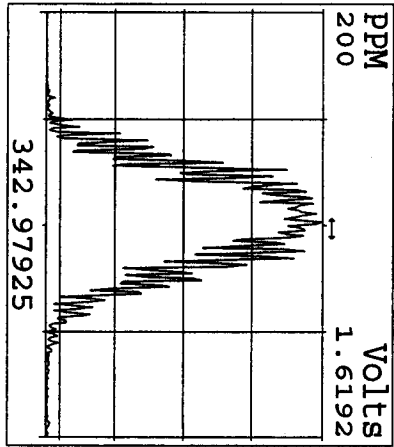
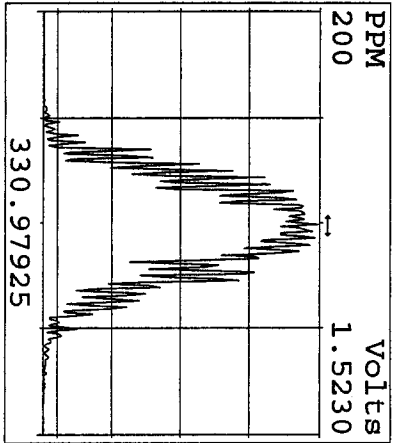
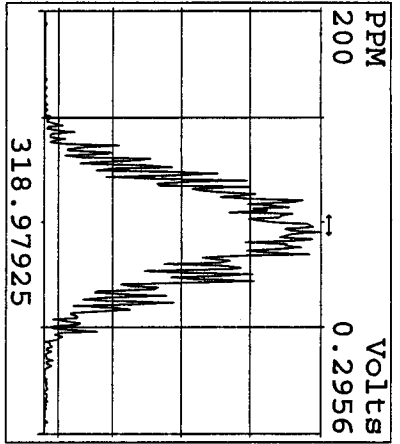
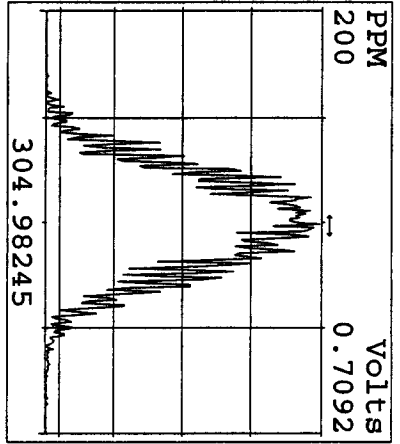
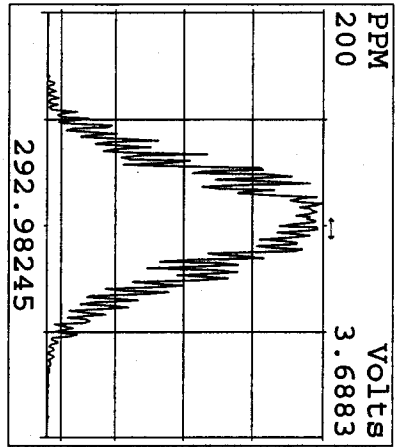
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	305540000	0.79 y	18:42	-	100.00	-	n
13C-2,3,7,8-TCDF	428953000	0.76 y	18:09	1.40	100.00	-10.4	n
2,3,7,8-TCDF	32770100	0.72 y	18:10	0.76	10.00	-11.2	n
Total TCDF	33075687	1.34 n	17:12	0.76	10.00	-11.2	n
13C-2,3,7,8-TCDD	315113000	0.80 y	18:54	1.03	100.00	3.8	n
2,3,7,8-TCDD	27024800	0.79 y	18:55	0.86	10.00	-8.2	n
Total TCDD	27324095	2.73 n	15:56	0.86	10.00	-8.2	n
37Cl-2,3,7,8-TCDD	67269200	1.00 y	18:55	2.20	10.00	-0.7	n
13C-1,2,3,7,8-PeCDF	304342000	1.59 y	23:33	1.00	100.00	-7.2	n
1,2,3,7,8-PeCDF	145652400	1.57 y	23:34	0.96	50.00	-4.3	n
2,3,4,7,8-PeCDF	137197300	1.57 y	24:59	0.90	50.00	-3.9	n
Total F2 PeCDF	285598094	1.57 y	23:34	0.93	100.00	-4.1	n
Total F1 PeCDF	237831	0.35 n	16:04	0.93	100.00	-4.1	n
13C-1,2,3,7,8-PeCDD	199454200	1.63 y	25:44	0.65	100.00	-2.0	n
1,2,3,7,8-PeCDD	94968500	1.58 y	25:46	0.95	50.00	2.5	n
Total PeCDD	95227794	2.64 n	25:26	0.95	50.00	2.5	n
13C-1,2,3,7,8,9-HxCDD	248387000	1.28 y	32:51	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	209840500	0.51 y	31:27	0.84	100.00	-5.4	n
1,2,3,4,7,8-HxCDF	120488000	1.24 y	31:28	1.15	50.00	-4.2	n
1,2,3,6,7,8-HxCDF	146045500	1.24 y	31:36	1.39	50.00	1.5	n
2,3,4,6,7,8-HxCDF	131075000	1.22 y	32:17	1.25	50.00	0.6	n
1,2,3,7,8,9-HxCDF	123743200	1.26 y	33:04	1.18	50.00	-11.1	n
Total HxCDF	521351700	1.24 y	31:28	1.24	200.00	-3.3	n
13C-1,2,3,6,7,8-HxCDD	188597100	1.12 y	32:33	0.76	100.00	3.7	n
1,2,3,4,7,8-HxCDD	83754600	1.25 y	32:28	0.89	50.00	-8.4	n
1,2,3,6,7,8-HxCDD	109704700	1.28 y	32:34	1.16	50.00	9.9	n
1,2,3,7,8,9-HxCDD	115884100	1.26 y	32:52	1.23	50.00	-3.6	n
Total HxCDD	310561051	1.25 y	32:28	1.09	150.00	-0.7	n
13C-1,2,3,4,6,7,8-HpCDF	194080900	0.42 y	34:36	0.78	100.00	-9.2	n
1,2,3,4,6,7,8-HpCDF	125774000	1.05 y	34:37	1.30	50.00	0.7	n
1,2,3,4,7,8,9-HpCDF	103441600	1.03 y	35:54	1.07	50.00	-6.1	n
Total HpCDF	229215600	1.05 y	34:37	1.18	100.00	-2.5	n
13C-1,2,3,4,6,7,8-HpCDD	179032800	1.06 y	35:32	0.72	100.00	-4.2	n
1,2,3,4,6,7,8-HpCDD	86512500	1.05 y	35:33	0.97	50.00	-3.1	n
Total HpCDD	86808288	1.04 y	34:55	0.97	50.00	-3.1	n
13C-OCDD	274116000	0.90 y	38:20	0.55	200.00	-2.2	n
OCDF	181459700	0.90 y	38:28	1.32	100.00	-7.9	n
OCDD	146499300	0.88 y	38:20	1.07	100.00	-3.7	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
04JA10A1D5	1	ST0104	CS3 09DXN425				1.000	
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04JA10A1D5	3	SB0104	Solvent Blank C-14				1.000	
04JA10A1D5	4	LRNEV-1-AA	G9L280000-386B	10	8290/SOLID	75	10.000	g
04JA10A1D5	5	LRNEV-1-AC	G9L280000-386C	10	8290/SOLID		10.000	g
04JA10A1D5	6	LQ2K8-3-AC	G9L120491-3RX	10	8290/SOLID		10.310	g
04JA10A1D5	7	LQ2LD-3-AC	G9L120491-7RX	10	8290/SOLID		10.100	g
04JA10A1D5	8	LQ2LE-3-AC	G9L120491-8RX	10	8290/SOLID		10.020	g
04JA10A1D5	9	LQ2LE-1-AF	G9L120491-8S	10	8290/SOLID		10.080	g
04JA10A1D5	10	LQ2LE-1-AG	G9L120491-8D	10	8290/SOLID		10.170	g
04JA10A1D5	11	SB0104A	Solvent Blank C-14				1.000	
04JA10A1D5	12	ST0104A	CS3 09DXN425				1.000	
04JA10A1D5	13						1.000	
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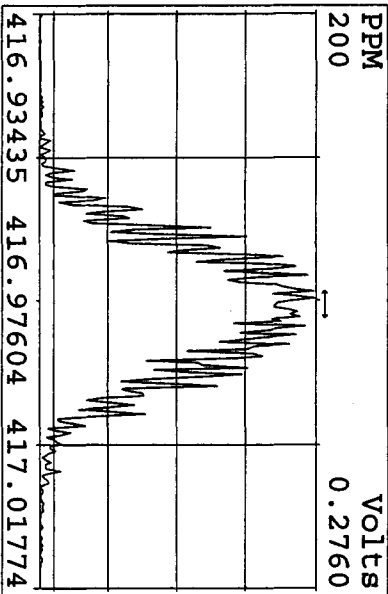
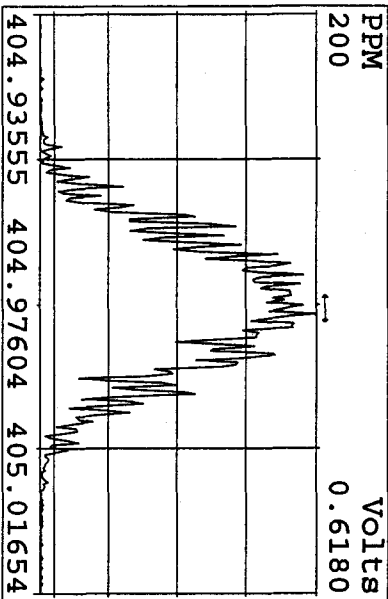
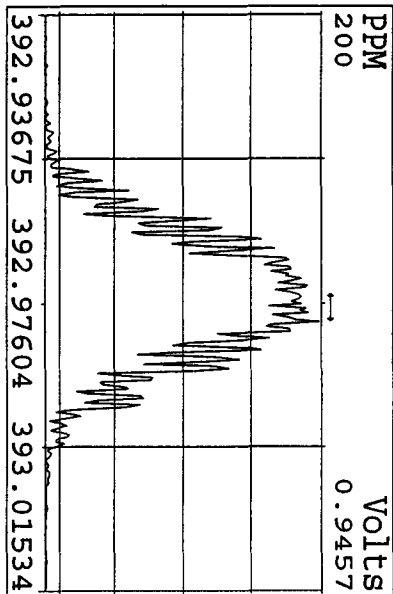
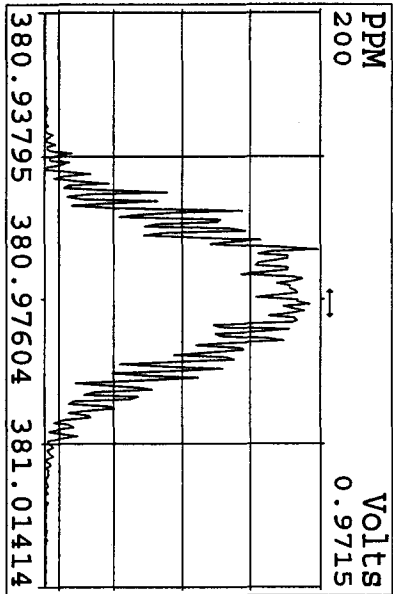
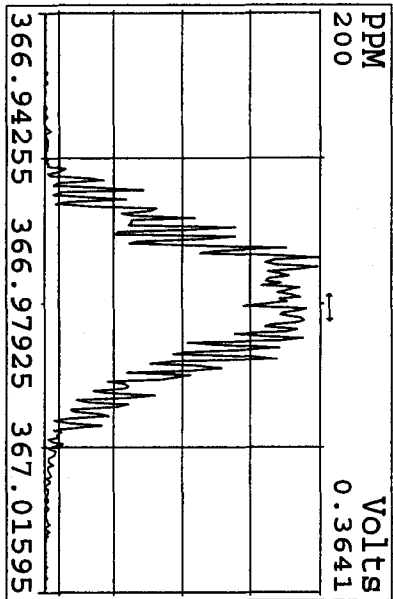
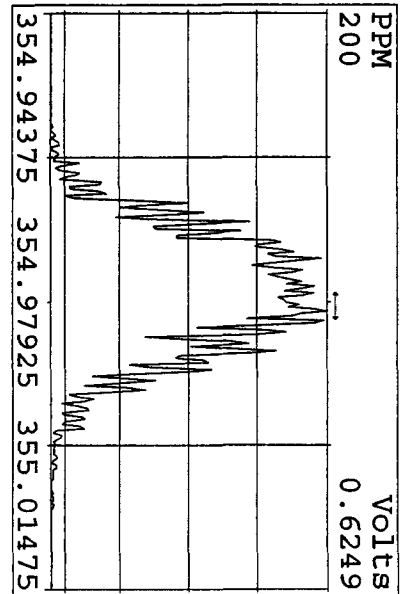
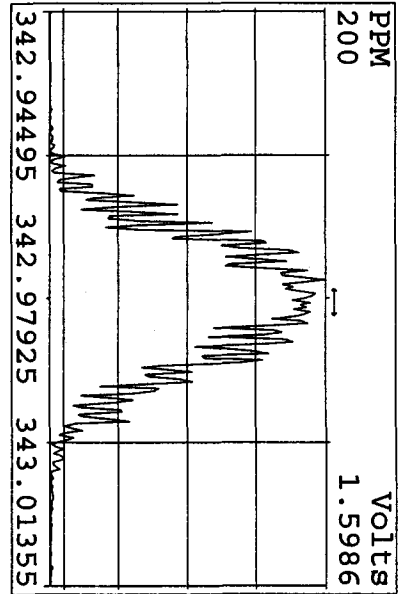
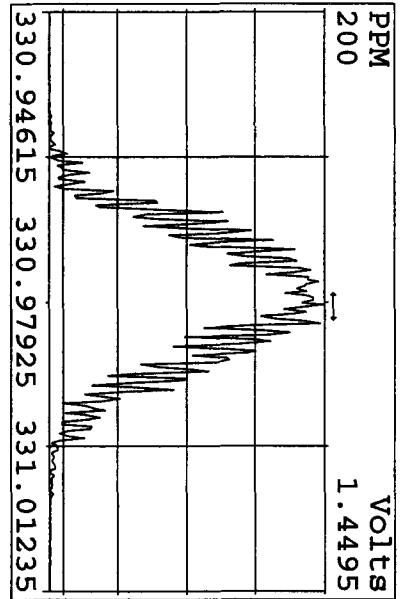
12hr

log file checked
1-04-10 am

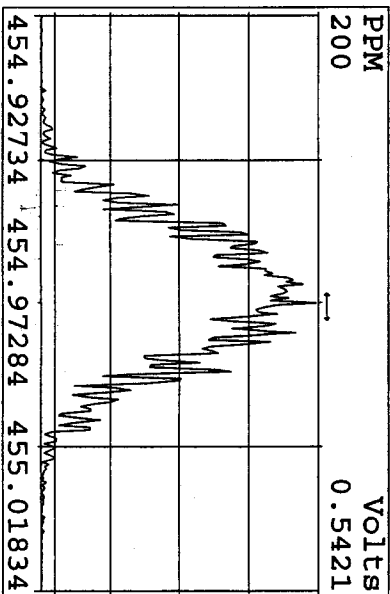
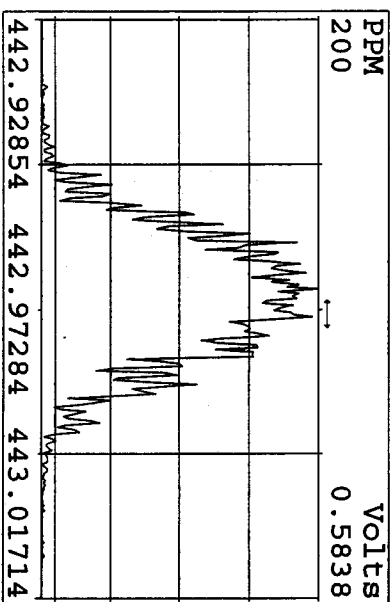
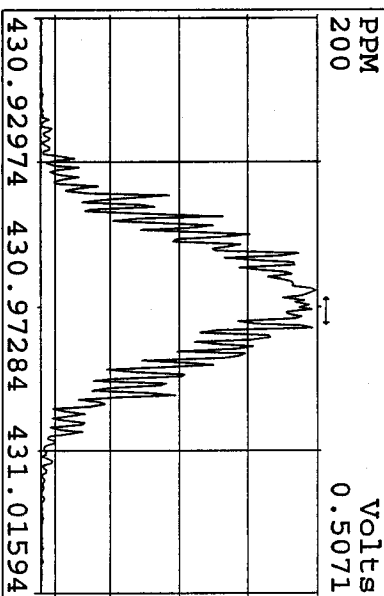
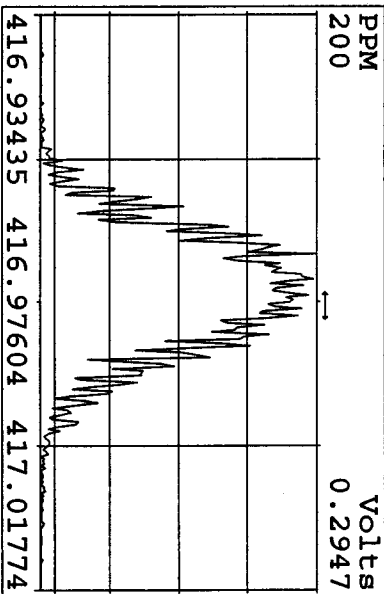
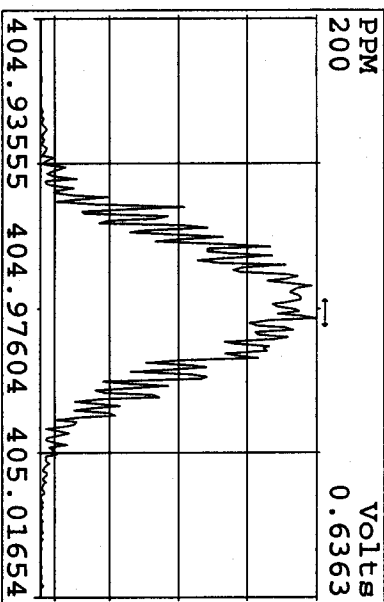
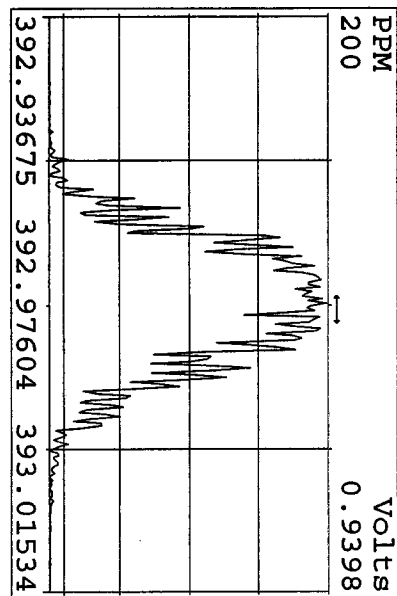
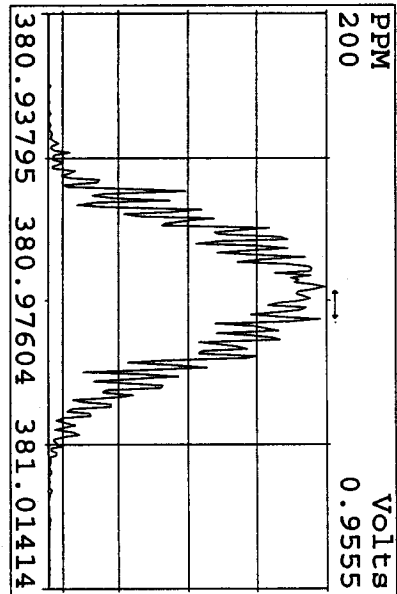
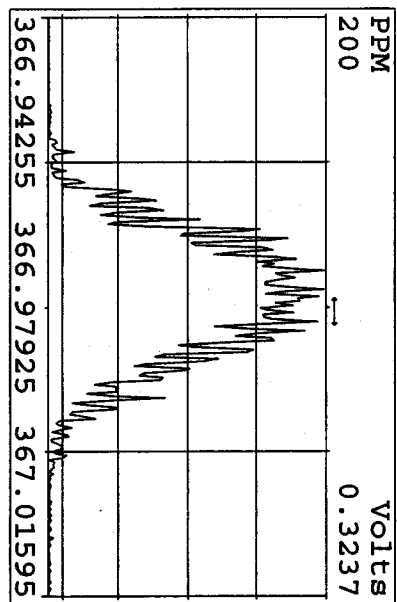
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Experiment:DIOXIN Function:1 Reference:PFK



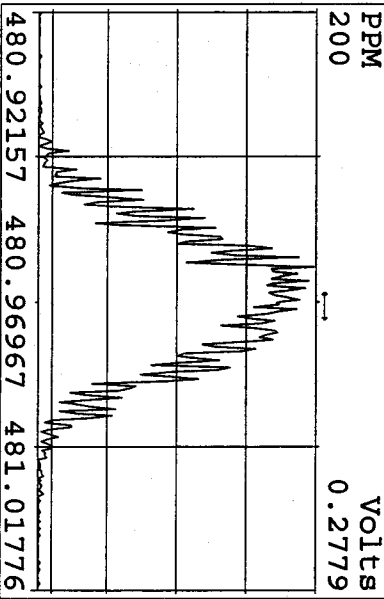
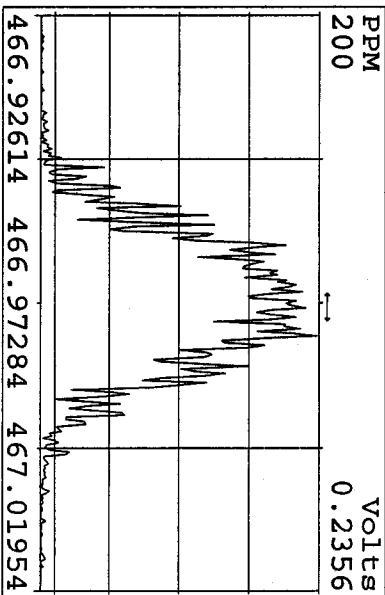
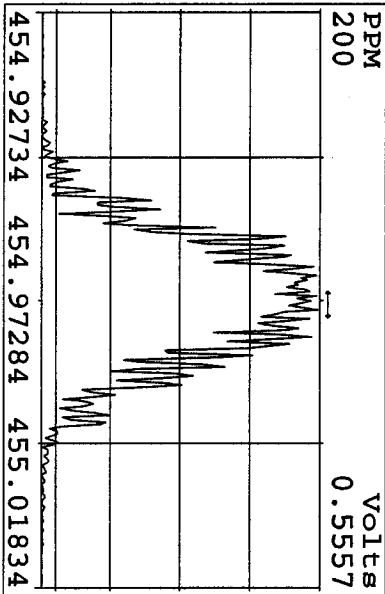
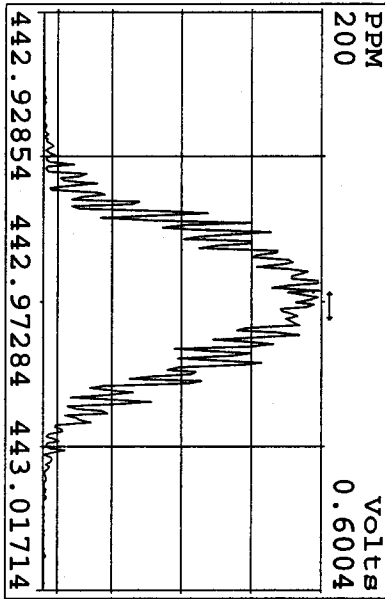
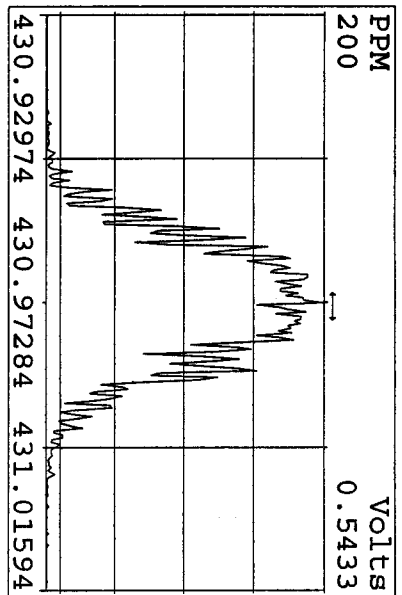
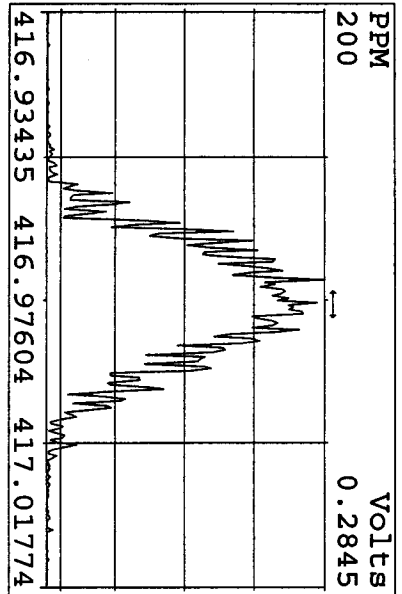
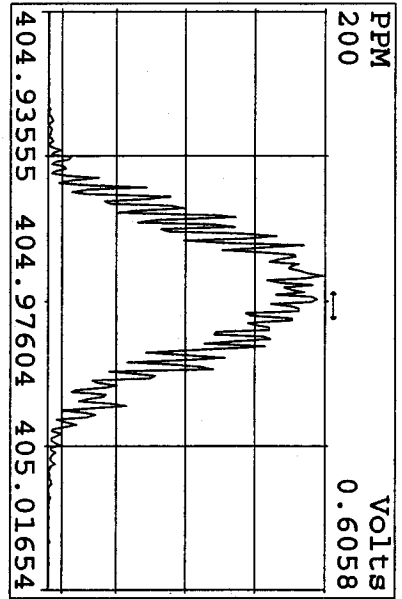
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Experiment:DIOXIN Function:2 Reference:PFK



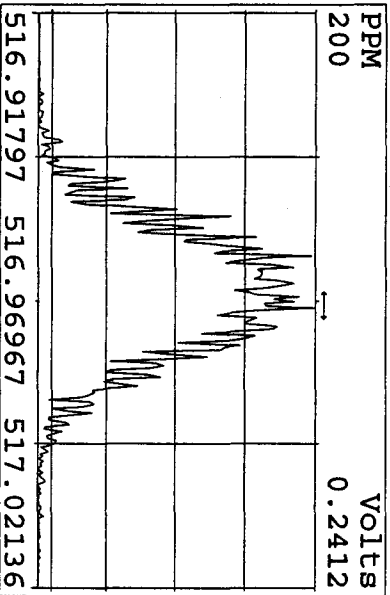
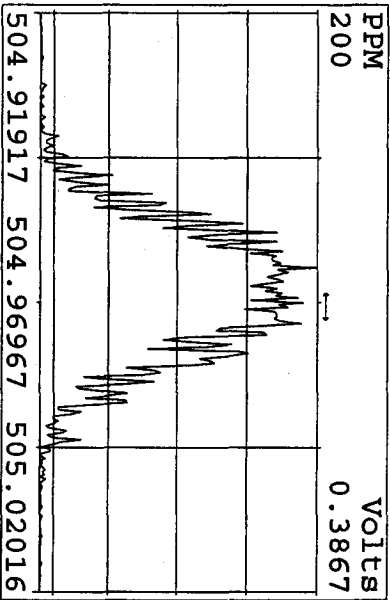
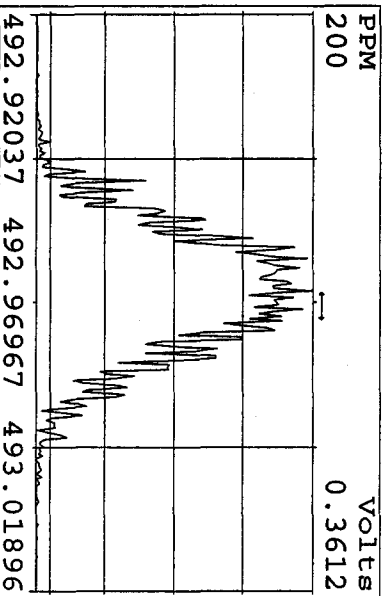
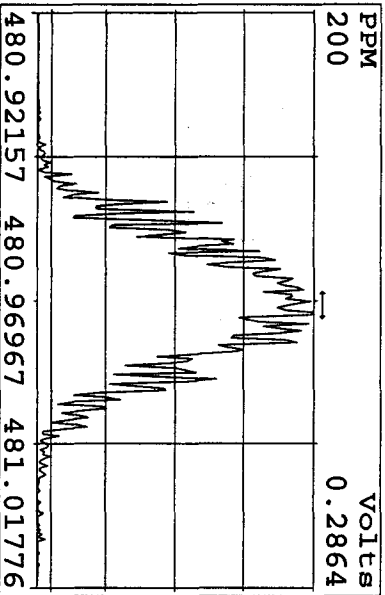
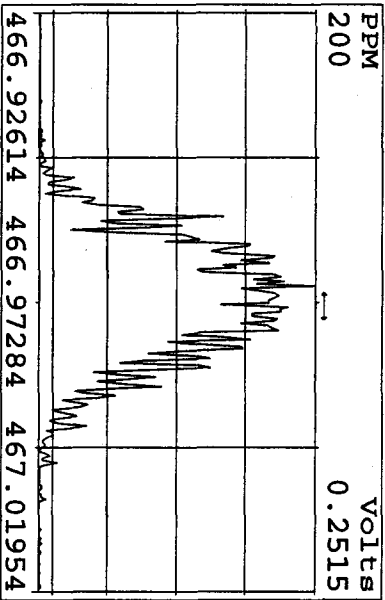
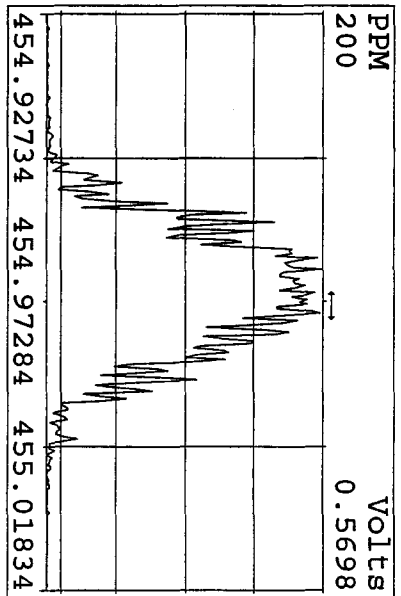
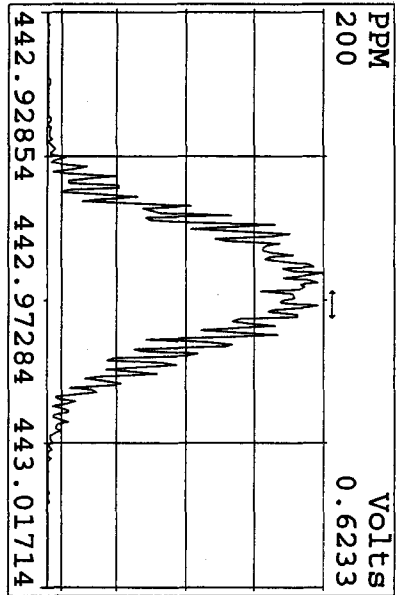
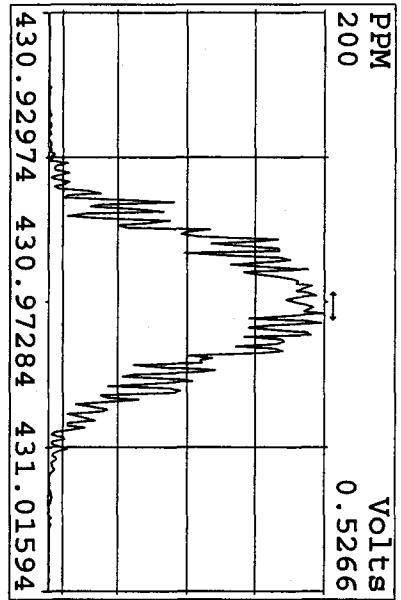
Peak Locate Examination: 4-JAN-2010:14:20 File:04JA10A1DS
 Experiment:DIOXIN Function:3 Reference:PKF



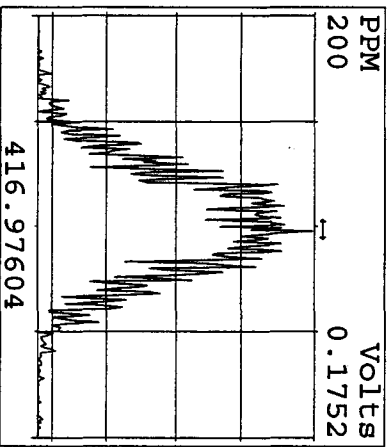
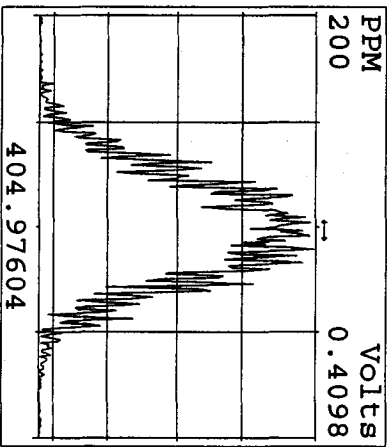
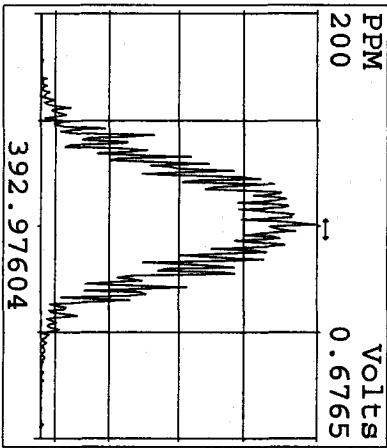
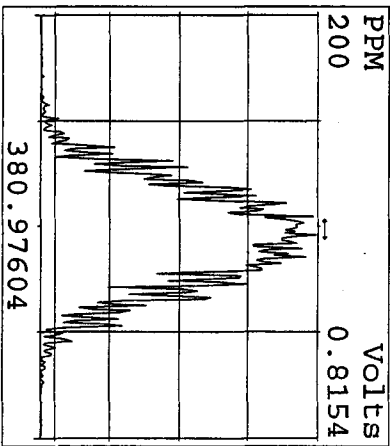
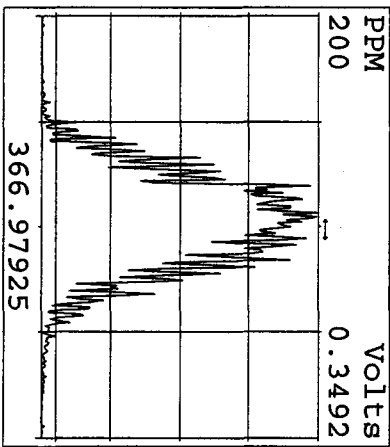
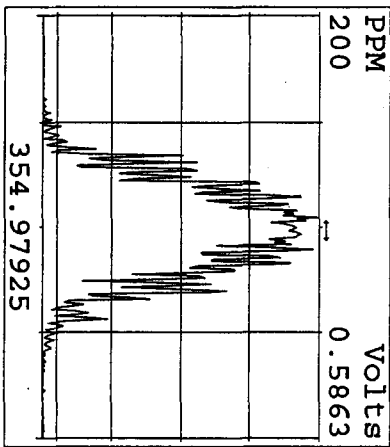
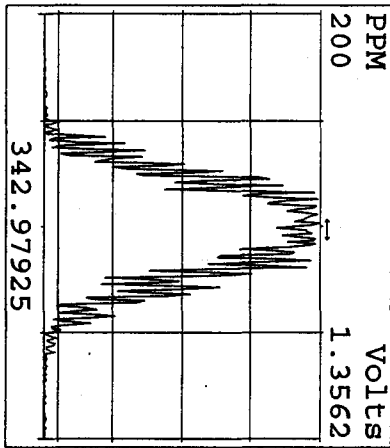
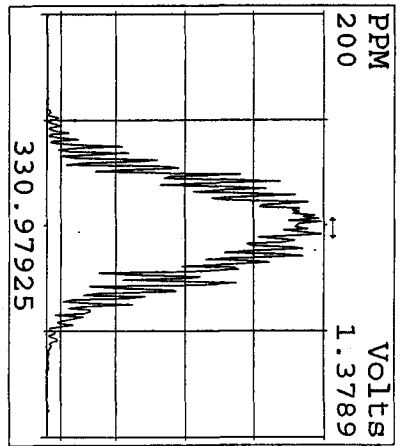
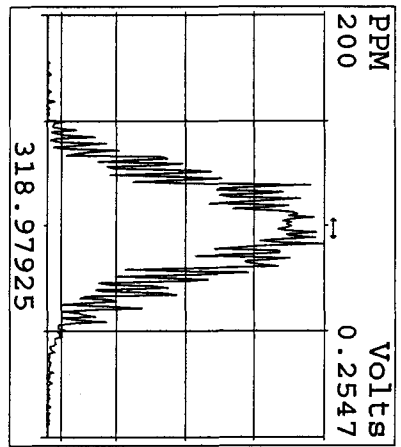
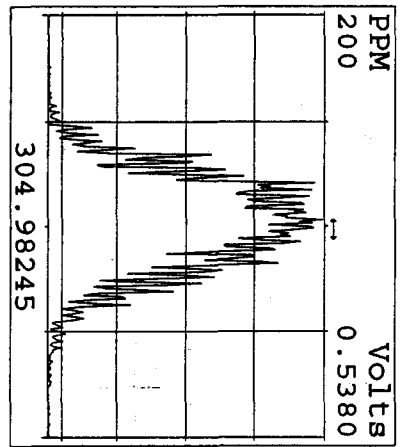
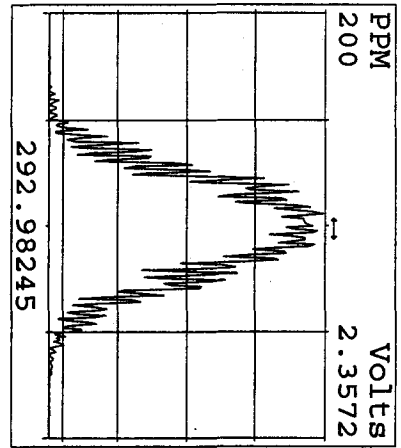
Peak Locate Examination: 4-JAN-2010:14:20 File:04JA10A1D5
 Experiment:DIOXIN Function:4 Reference:PFK



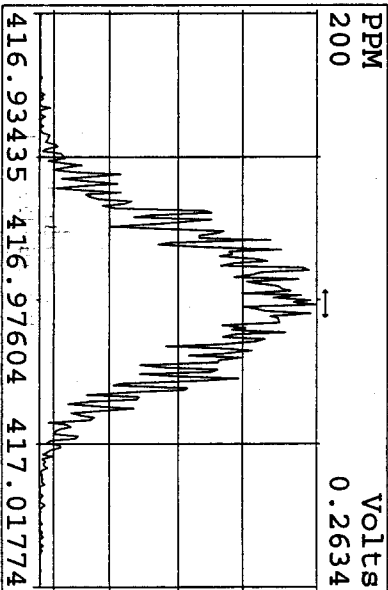
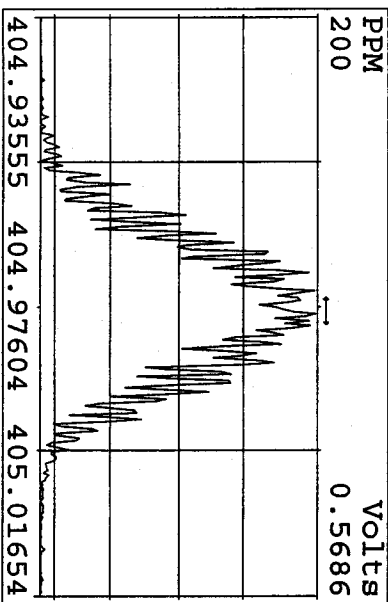
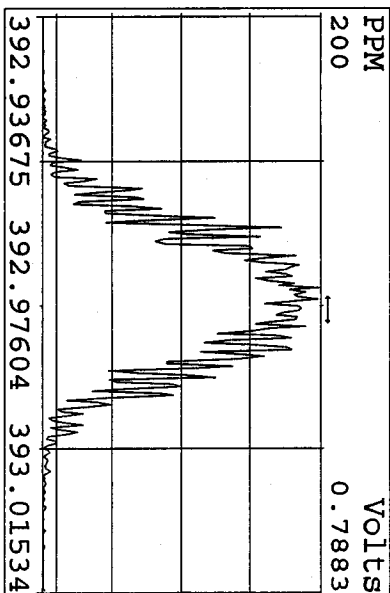
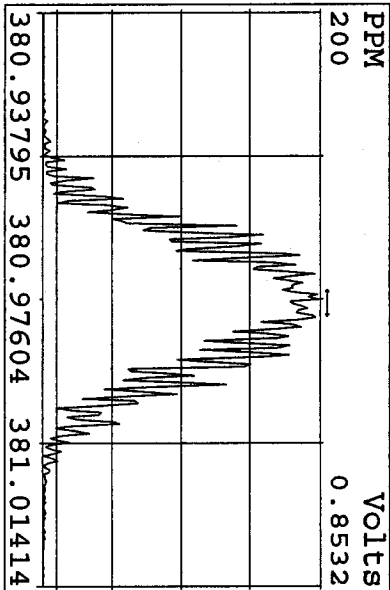
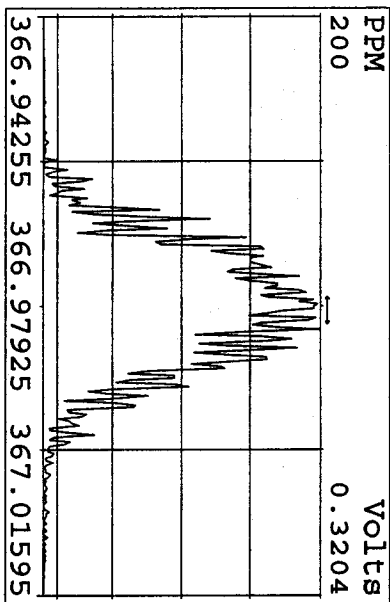
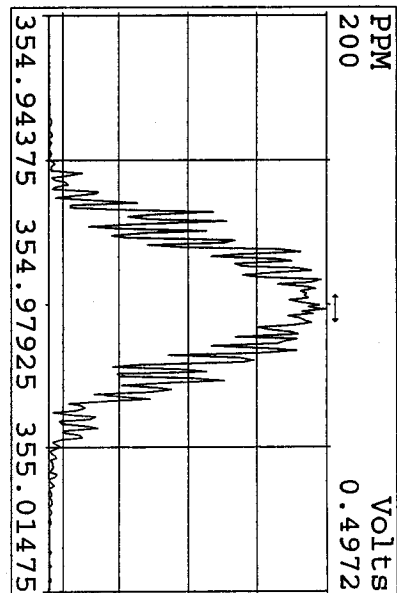
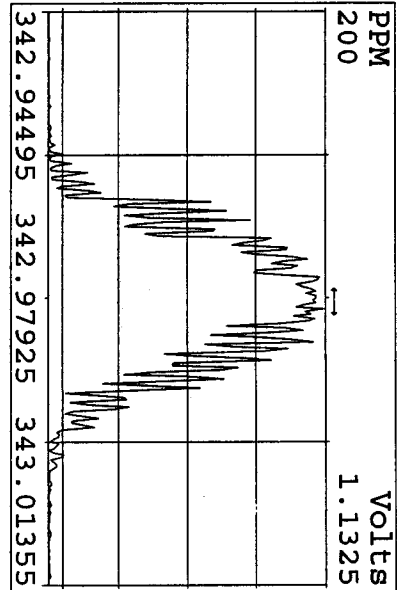
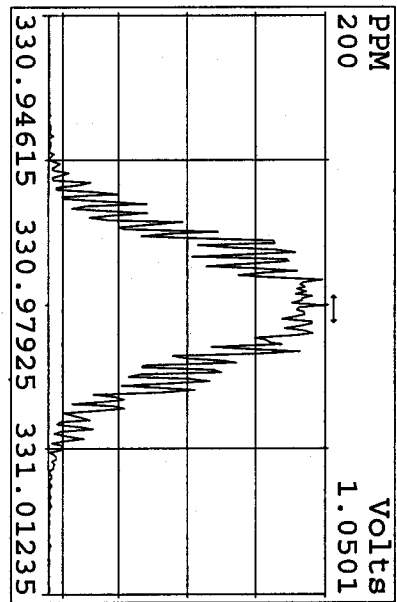
Peak Locate Examination: 4-JAN-2010:14:21 File:04JA10A1D5
 Experiment:DIOXIN Function:5 Reference:PFK



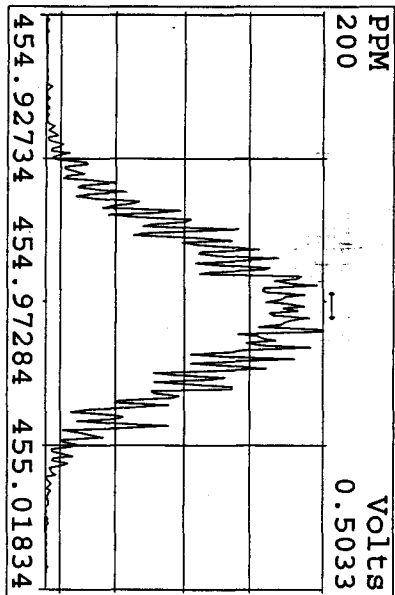
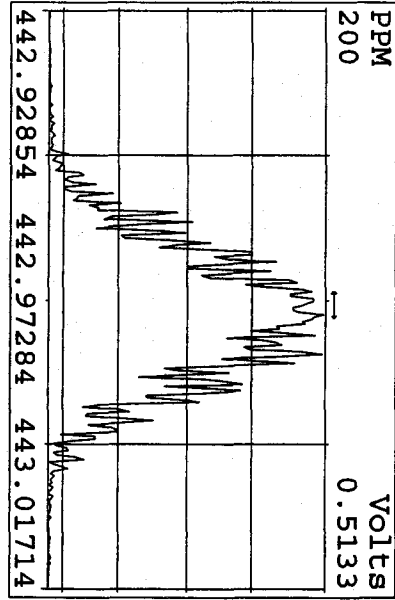
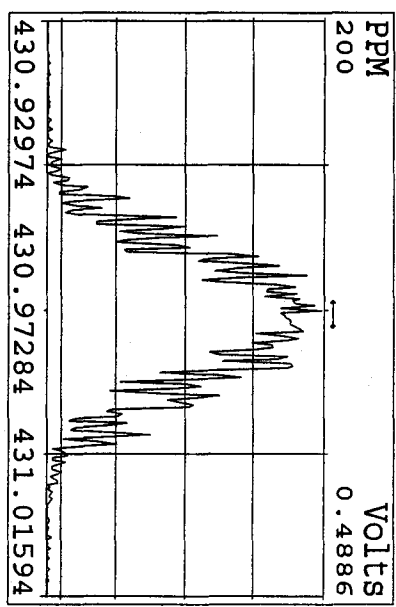
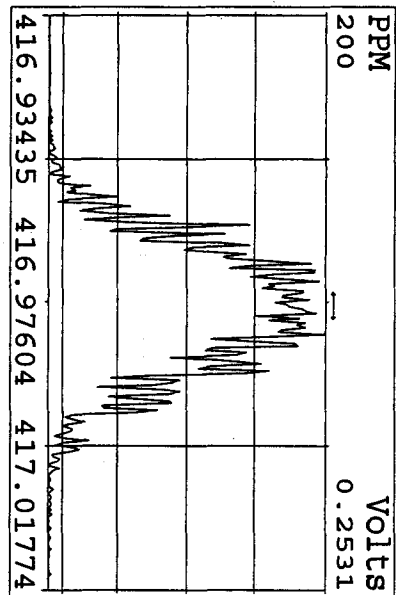
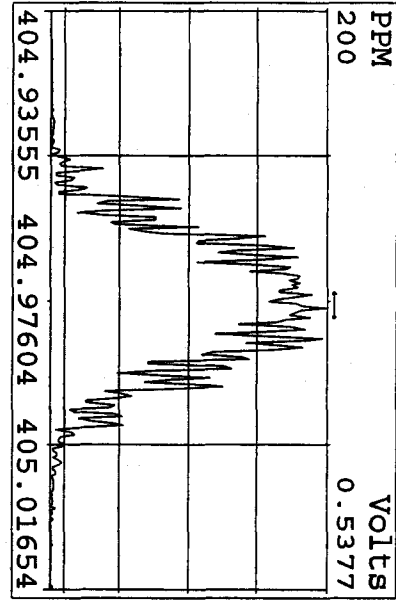
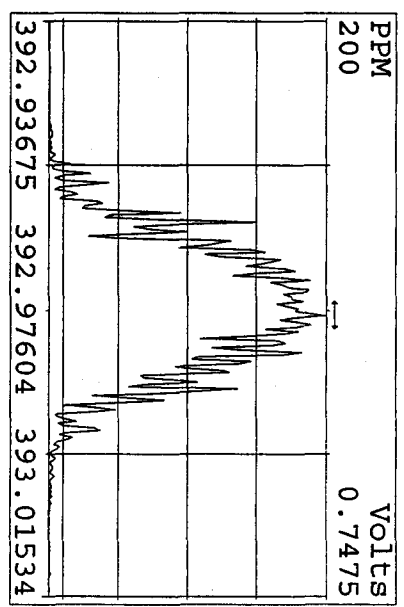
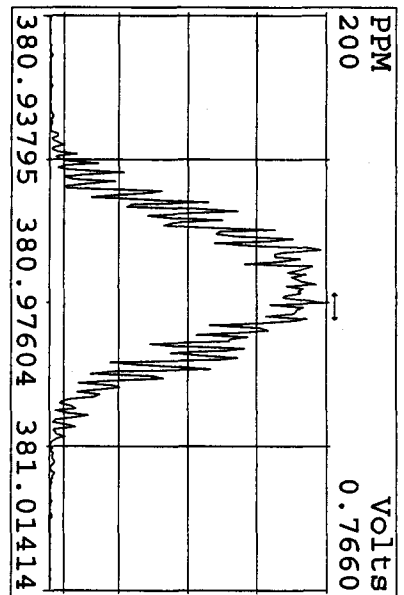
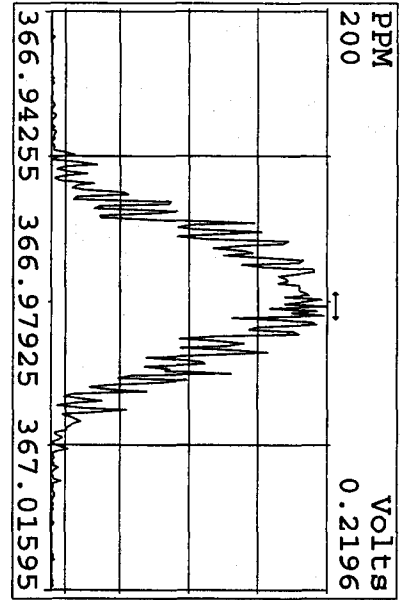
Peak Locate Examination: 4-JAN-2010:22:59 File:RESCHK04JA10A1D5
Experiment:DIOXIN Function:1 Reference:PK



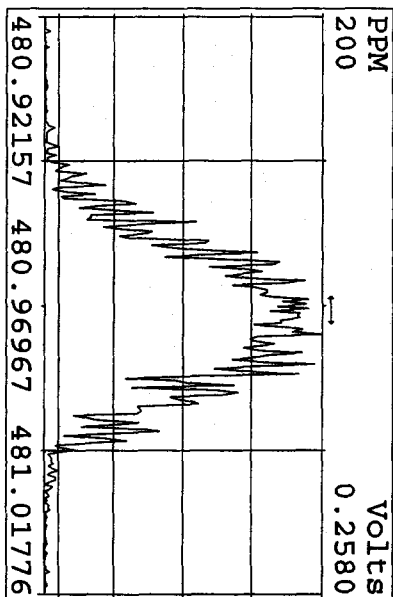
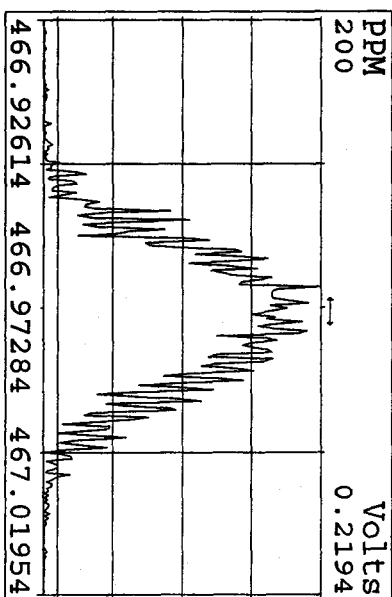
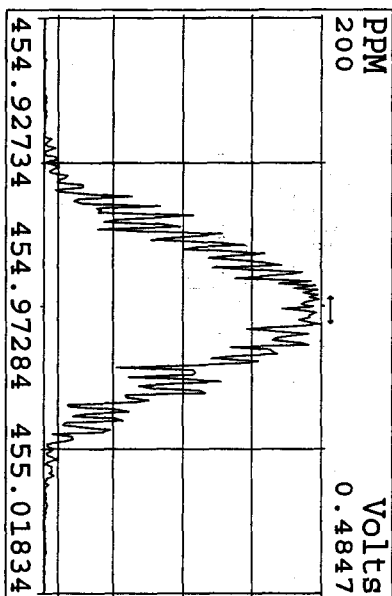
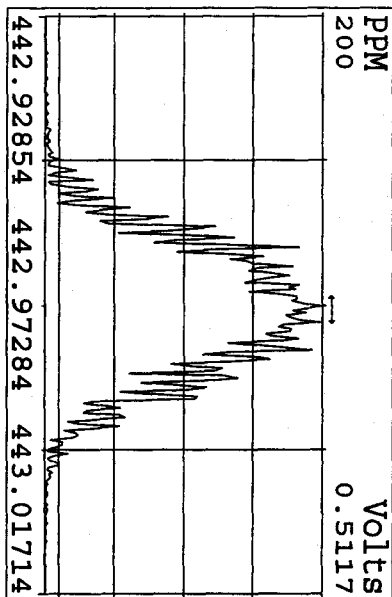
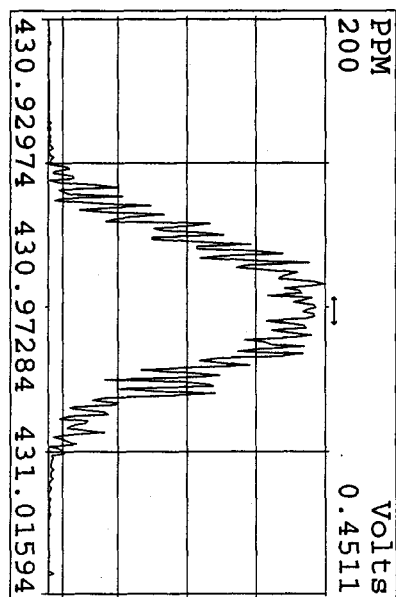
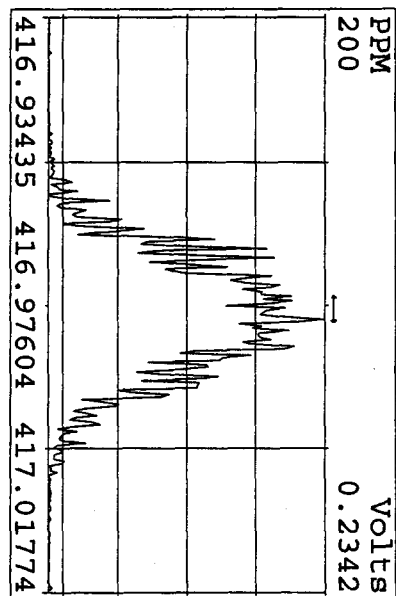
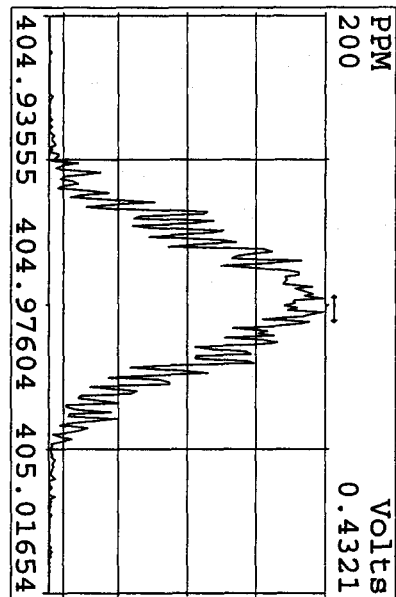
Peak Locate Examination: 4-JAN-2010:23:01 File:RESCHK04JA10A1D5
 Experiment:DIOXIN Function:2 Reference:PFK



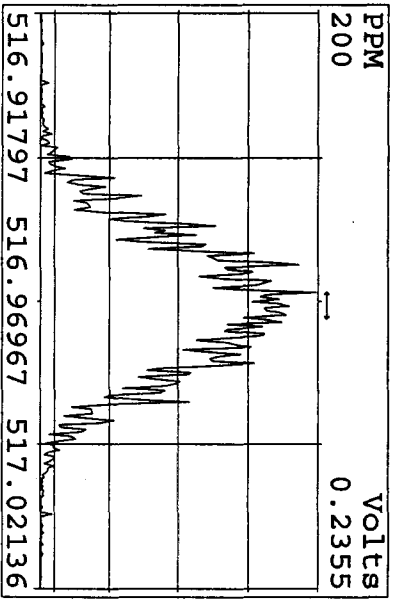
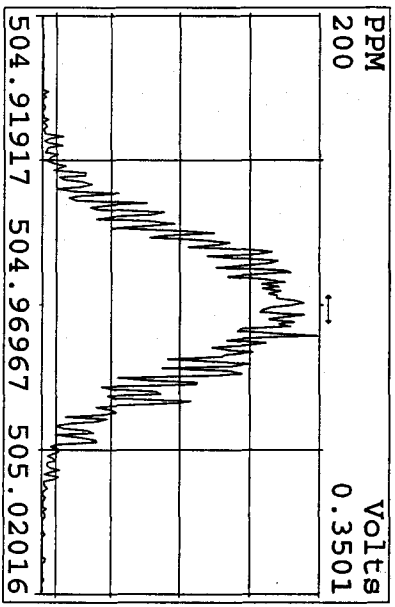
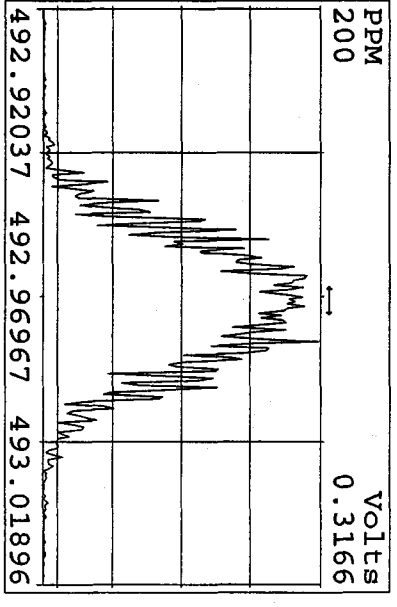
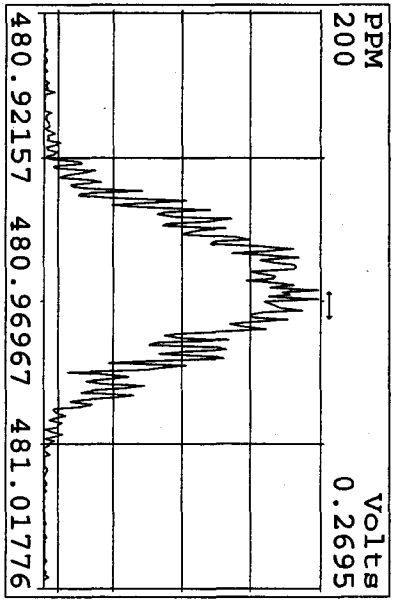
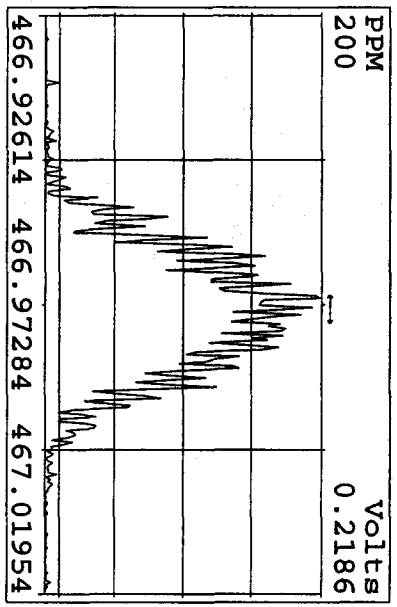
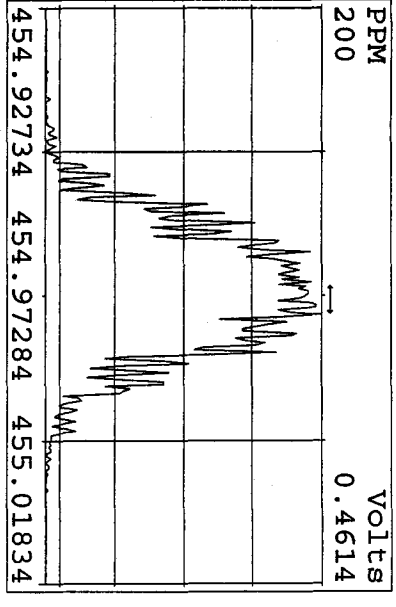
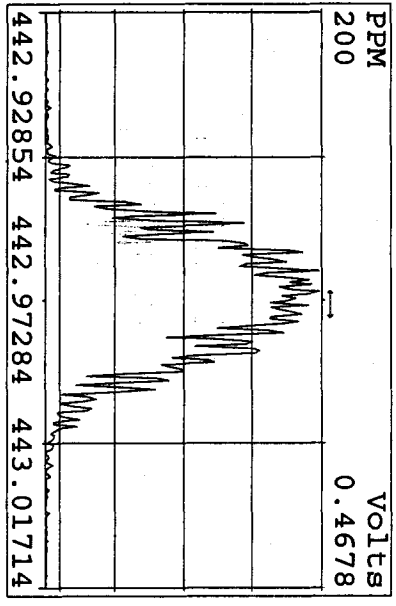
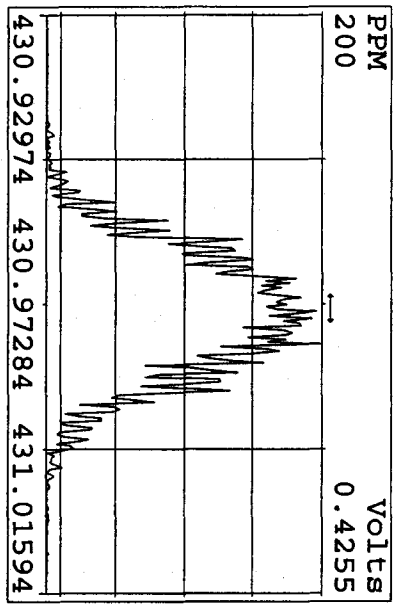
Peak Locate Examination: 4-JAN-2010:23:02 File:RESCHK04JA10A1D5
 Experiment:DIOXIN Function:3 Reference:PRK



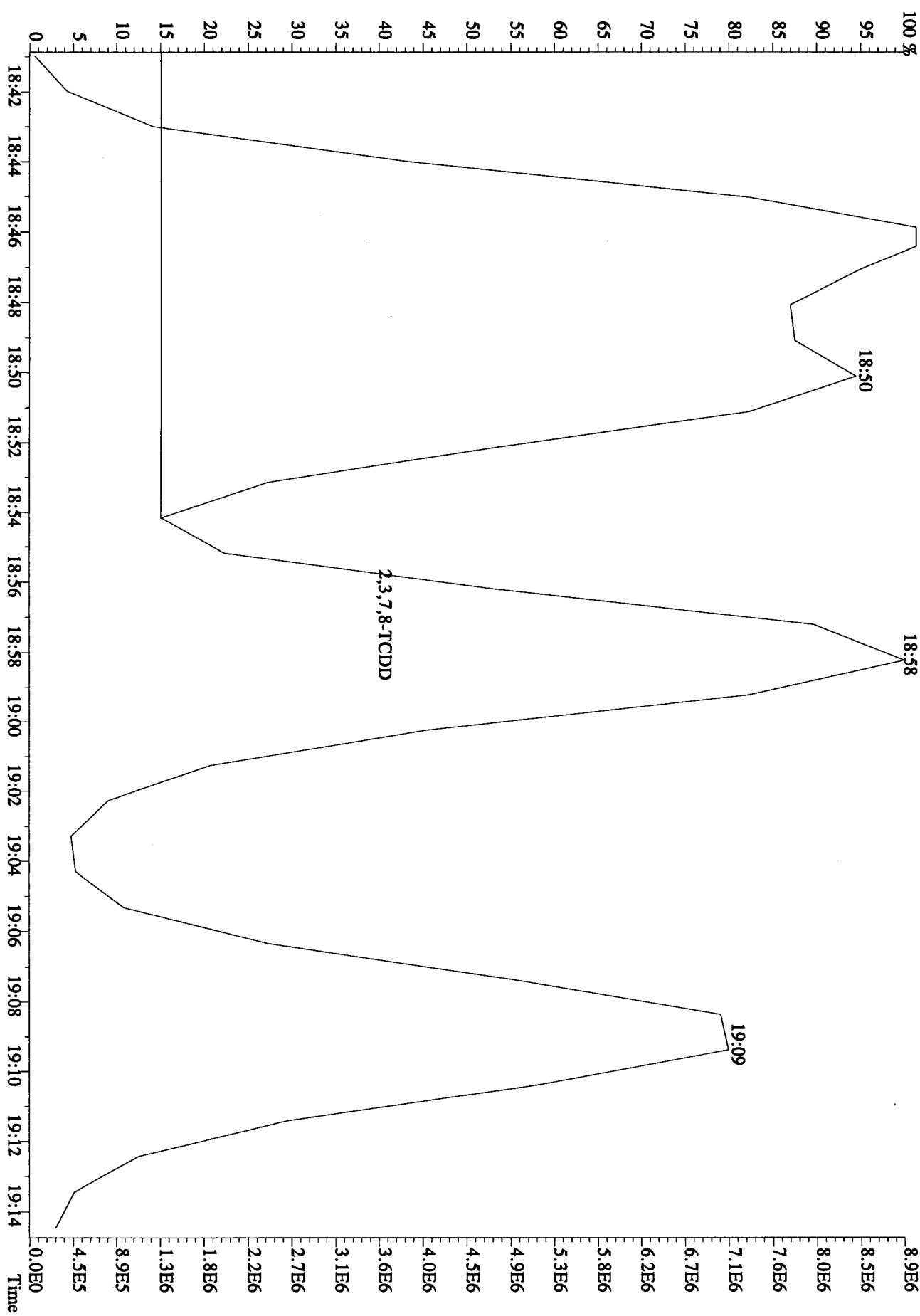
Peak Locate Examination: 4-JAN-2010:23:03 File:RESCHK04JA10A1DS
 Experiment:DIOXIN Function:4 Reference:PFK



Peak Locate Examination: 4-JAN-2010:23:05 File:RESCHK04JA10A1D5
 Experiment:DIOXIN Function:5 Reference:PFK



File:041A10A1D5 #1-339 Acq: 4-JAN-2010 15:04:34 GC EI + Voltage SIR 70SE
Sample#2 Exp:DIOXIN
321.8936 S:2



Run: 04JA10A1D5 Analyte: 8290HRS Cal: 82901231091D5

ST1231B :CS-1 09DXN422 ST1231C :CS-2 09DXN423 ST1231D :CS-3 09DXN425
 ST1231E :CS-4 09DXN426 ST1231F :CS-5 09DXN456

31DE09A1D531DE09A1D531DE09A1D531DE09A1D531DE09A1D531DE09A1D5

Name	Mean	S. D.	%RSD	S2	S3	S4	S5	S6
				RRF1	RRF2	RRF3	RRF4	RRF5

13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.566	0.079	5.03 %	1.52	1.48	1.64	1.53	1.66
2,3,7,8-TCDF	0.860	0.090	10.4 %	0.77	0.77	0.87	0.91	0.98
Total TCDF	0.860	0.090	10.4 %	0.77	0.77	0.87	0.91	0.98

13C-2,3,7,8-TCDD	0.993	0.079	7.91 %	0.93	0.93	1.01	0.97	1.12
2,3,7,8-TCDD	0.934	0.120	12.9 %	0.86	0.77	0.95	1.01	1.07
Total TCDD	0.934	0.120	12.9 %	0.86	0.77	0.95	1.01	1.07

37Cl-2,3,7,8-TCDD	2.218	0.347	15.7 %	2.02	1.82	2.18	2.33	2.74
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13C-1,2,3,7,8-PeCDF	1.073	0.114	10.6 %	1.00	0.98	1.09	1.03	1.26
1,2,3,7,8-PeCDF	1.000	0.119	11.9 %	0.85	0.90	1.04	1.10	1.11
2,3,4,7,8-PeCDF	0.939	0.122	13.0 %	0.79	0.84	0.97	1.05	1.05
Total F2 PeCDF	0.969	0.120	12.4 %	0.82	0.87	1.01	1.08	1.08
Total F1 PeCDF	0.969	0.120	12.4 %	0.82	0.87	1.01	1.08	1.08

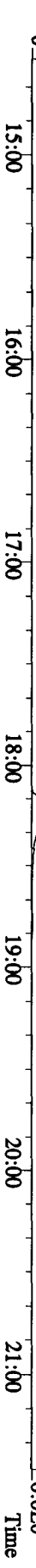
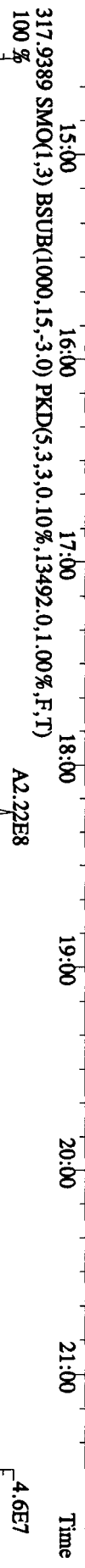
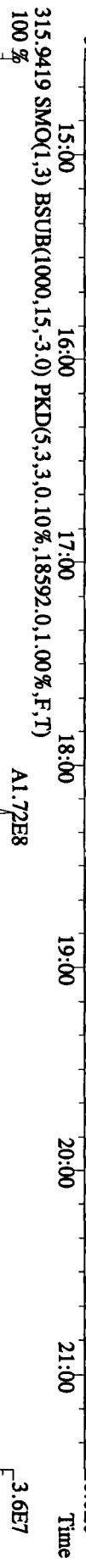
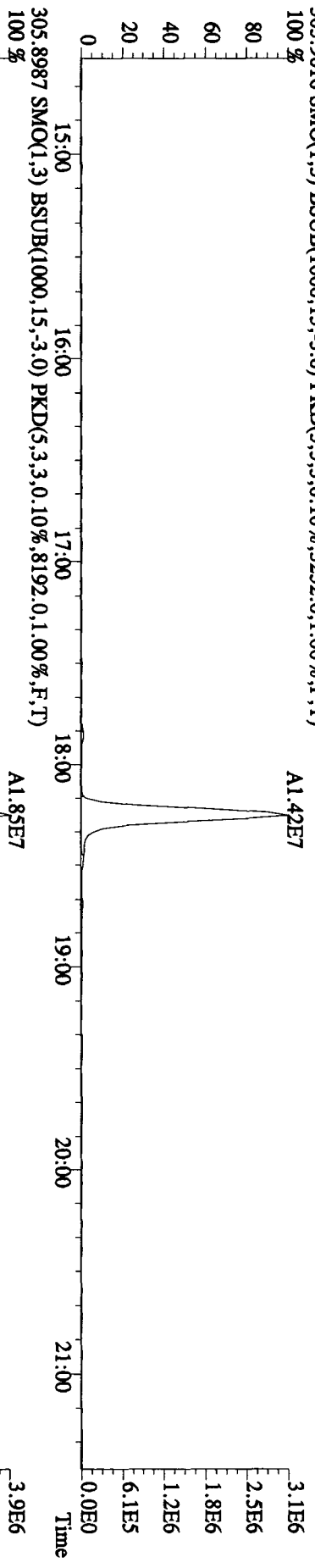
13C-1,2,3,7,8-PeCDD	0.666	0.081	12.1 %	0.61	0.59	0.67	0.67	0.80
1,2,3,7,8-PeCDD	0.929	0.127	13.7 %	0.79	0.81	0.94	1.04	1.06
Total PeCDD	0.929	0.127	13.7 %	0.79	0.81	0.94	1.04	1.06

13C-1,2,3,7,8-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	0.893	0.084	9.37 %	0.98	0.88	0.90	0.76	0.94
1,2,3,4,7,8-HxCDF	1.199	0.171	14.2 %	0.96	1.08	1.31	1.33	1.32
1,2,3,6,7,8-HxCDF	1.371	0.160	11.7 %	1.12	1.30	1.48	1.51	1.45
2,3,4,6,7,8-HxCDF	1.242	0.152	12.3 %	1.02	1.15	1.32	1.36	1.36
1,2,3,7,8,9-HxCDF	1.326	0.218	16.4 %	1.02	1.19	1.44	1.57	1.42
Total HxCDF	1.285	0.174	13.5 %	1.03	1.18	1.39	1.44	1.38

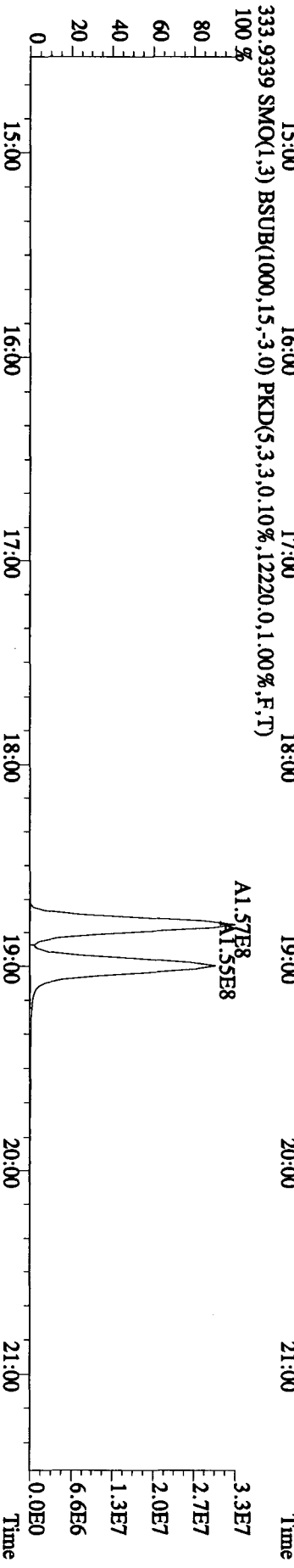
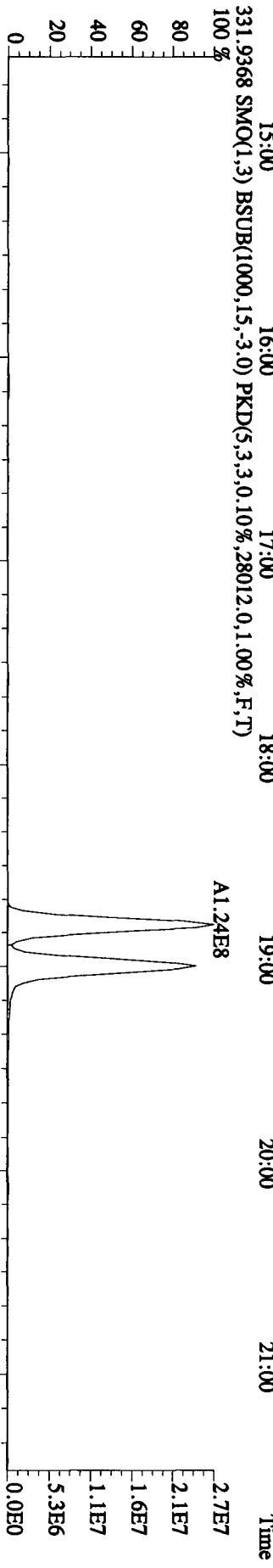
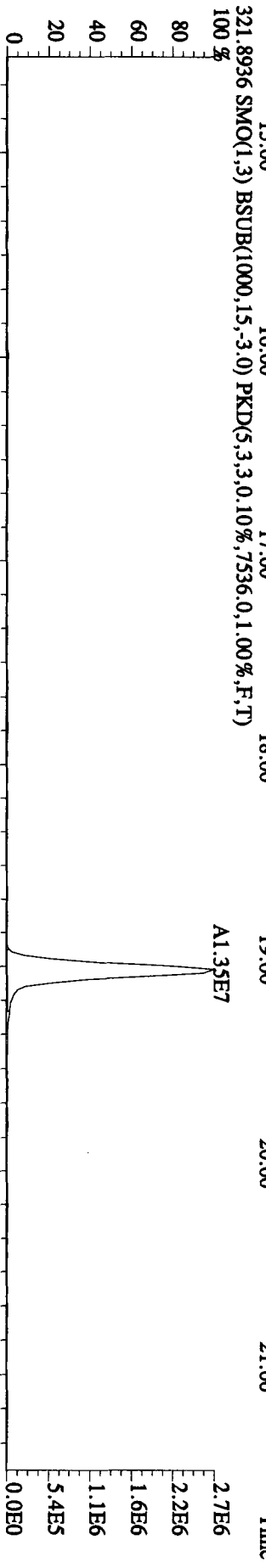
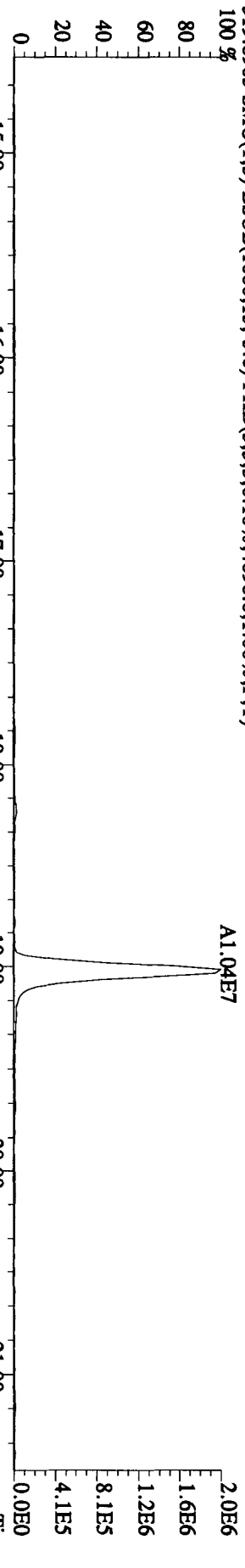
13C-1,2,3,6,7,8-HxCDD	0.732	0.084	11.4 %	0.83	0.69	0.75	0.61	0.78
1,2,3,4,7,8-HxCDD	0.970	0.170	17.5 %	0.74	0.88	0.98	1.15	1.11

1,2,3,6,7,8-HxCDD	1.058	0.118	11.2	%	0.88	1.01	1.09	1.16	1.15
1,2,3,7,8,9-HxCDD	1.275	0.243	19.0	%	0.92	1.19	1.33	1.57	1.37
Total HxCDD	1.101	0.175	15.9	%	0.84	1.02	1.14	1.30	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.860	0.055	6.38	%	0.92	0.85	0.88	0.78	0.88
1,2,3,4,6,7,8-HpCDF	1.287	0.138	10.8	%	1.10	1.18	1.34	1.41	1.40
1,2,3,4,7,8,9-HpCDF	1.135	0.151	13.3	%	0.95	1.00	1.19	1.27	1.27
Total HpCDF	1.211	0.145	11.9	%	1.02	1.09	1.27	1.34	1.33
13C-1,2,3,4,6,7,8-HpCDD	0.752	0.046	6.08	%	0.80	0.74	0.75	0.68	0.79
1,2,3,4,6,7,8-HpCDD	0.998	0.122	12.2	%	0.85	0.88	1.05	1.10	1.10
Total HpCDD	0.998	0.122	12.2	%	0.85	0.88	1.05	1.10	1.10
13C-OCDD	0.564	0.039	6.86	%	0.58	0.54	0.57	0.51	0.61
OCDF	1.437	0.202	14.1	%	1.16	1.30	1.52	1.63	1.59
OCDD	1.110	0.128	11.5	%	0.96	0.98	1.16	1.23	1.22

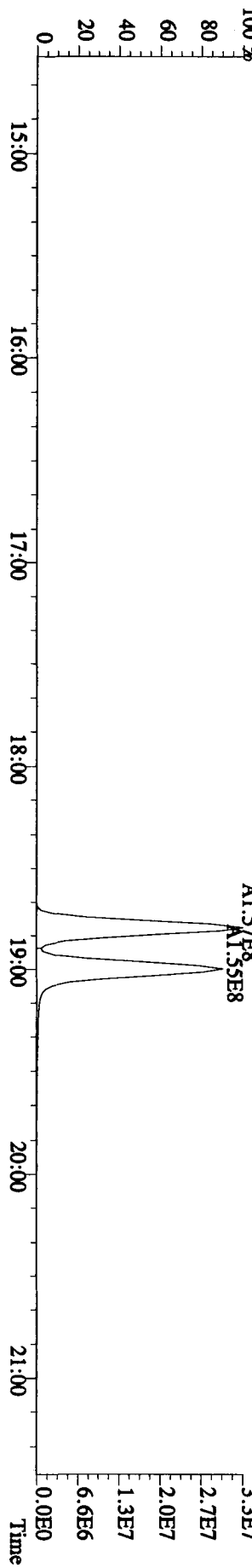
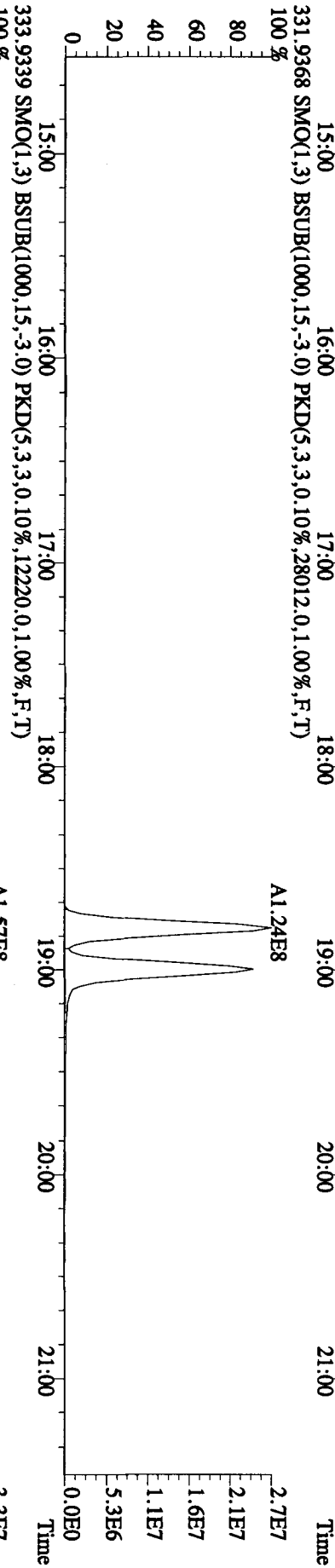
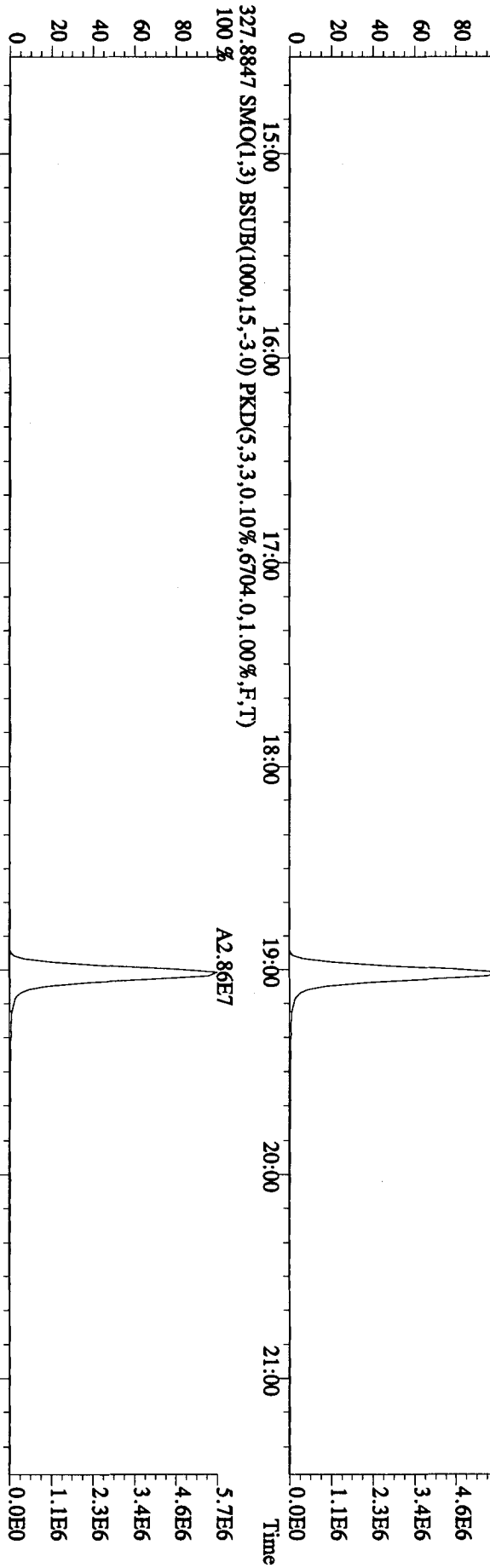
File:041A10A1D5 #1-411 Acq: 4-JAN-2010 14:22:14 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
 303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5252.0,1.00%,F,T)
 100%



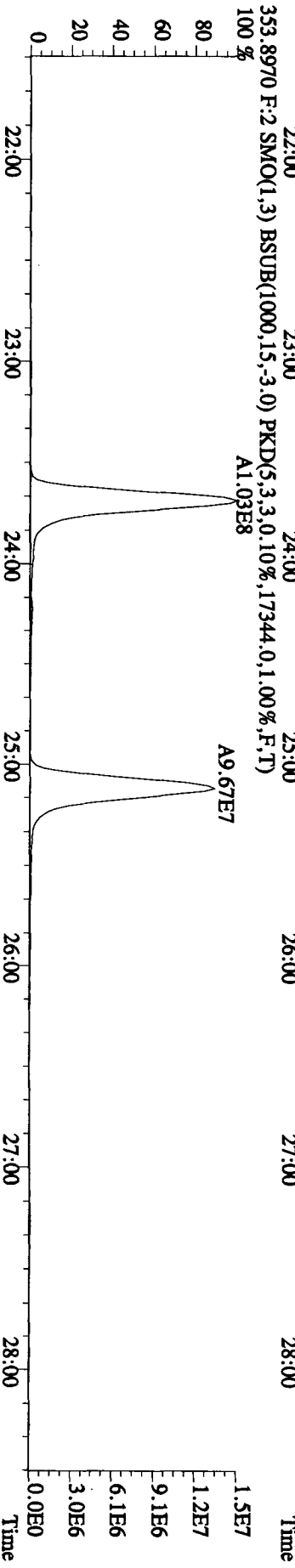
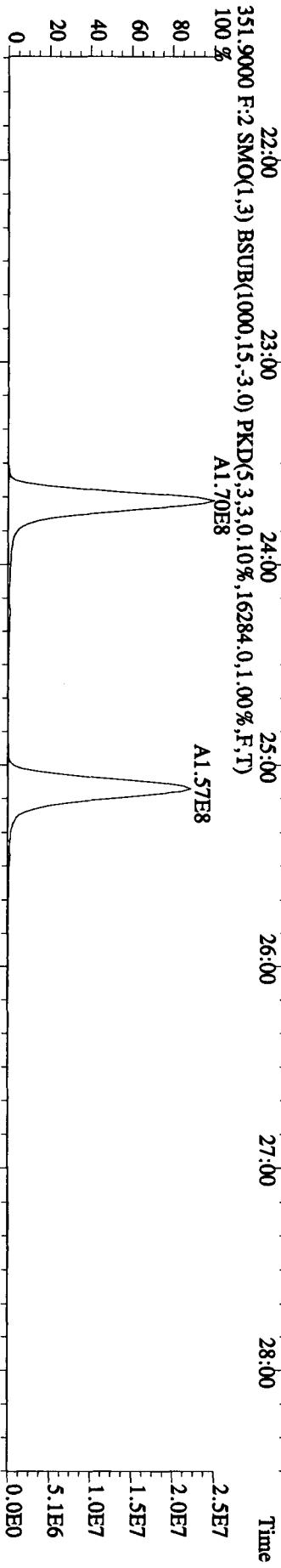
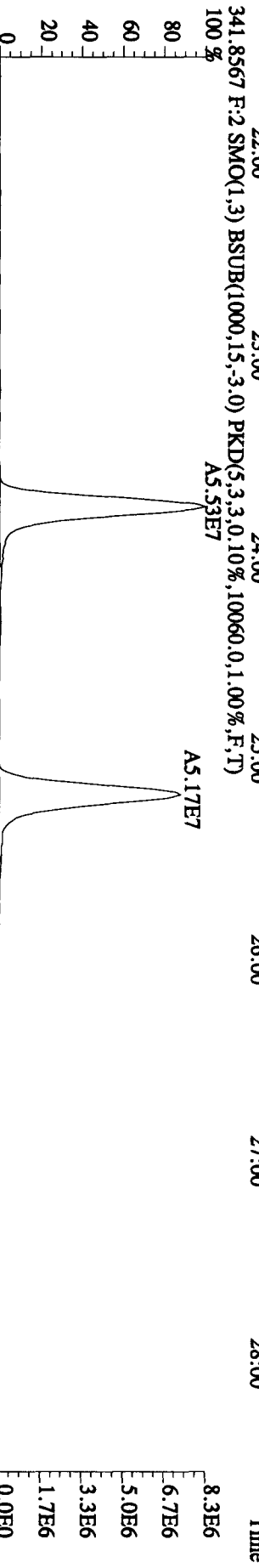
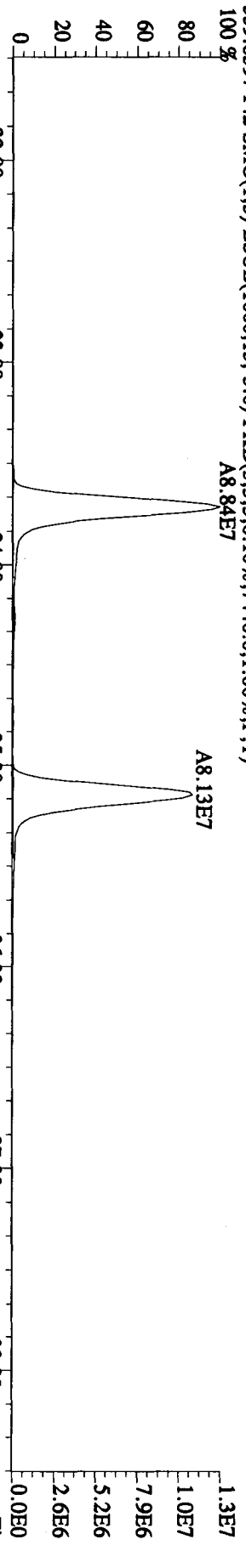
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 14:22:14 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4896,0,1,00%,F,T)
 100%



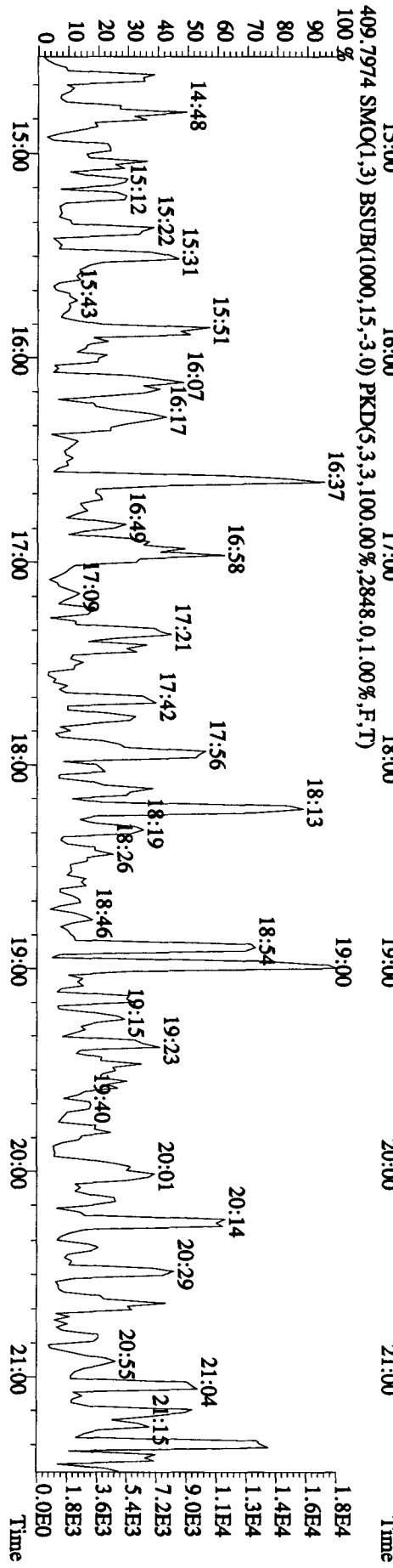
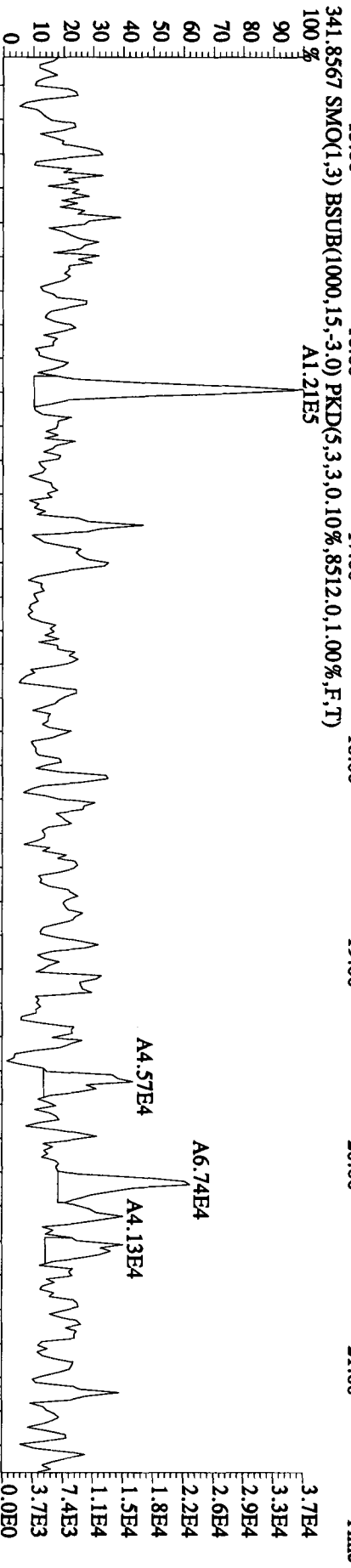
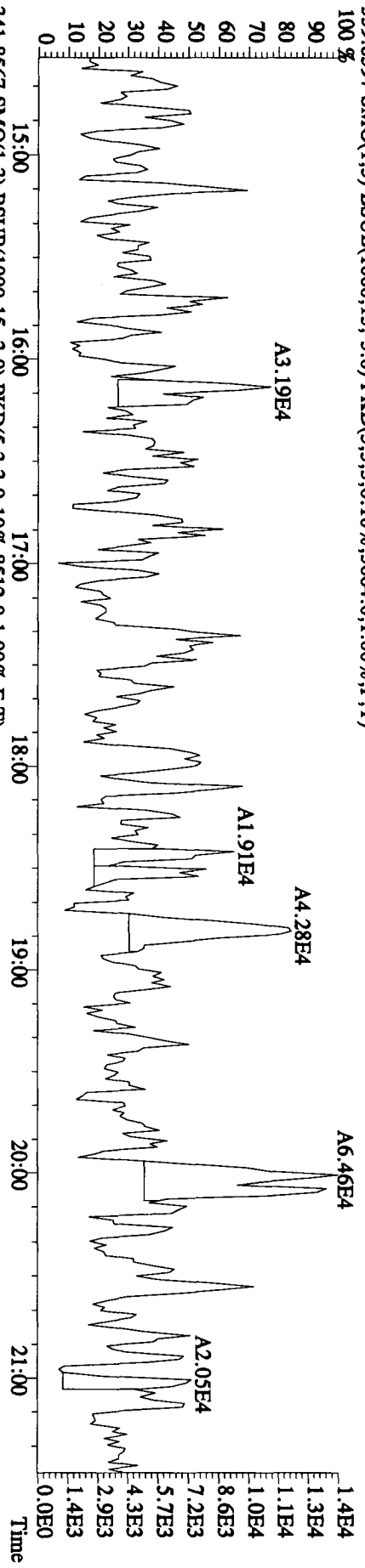
File:041A10A1D5 #1-411 Acq: 4-JAN-2010 14:22:14 GC EI + Voltage SIR 70SE
 Sample#1 Text:ST10104 :CS3 09DXN425 Exp:DIOXIN
 327.8847 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6704,0,1.00%,F,T)
 100 %



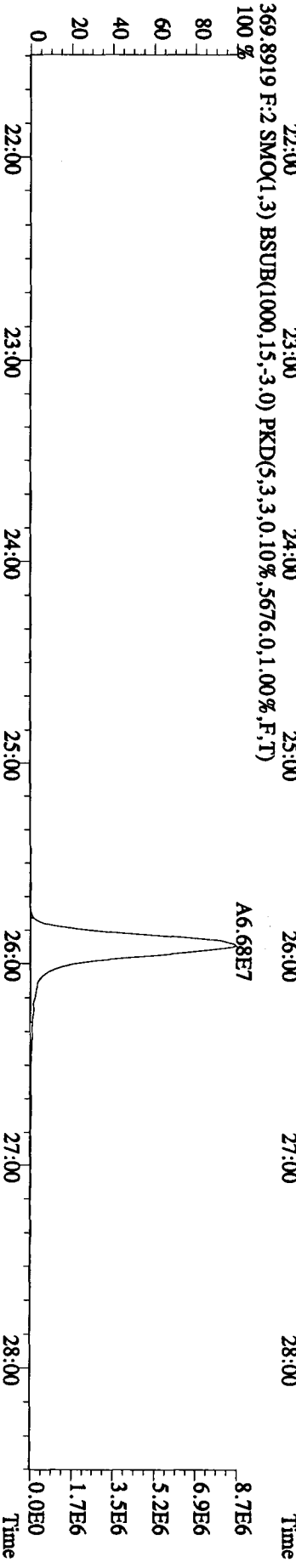
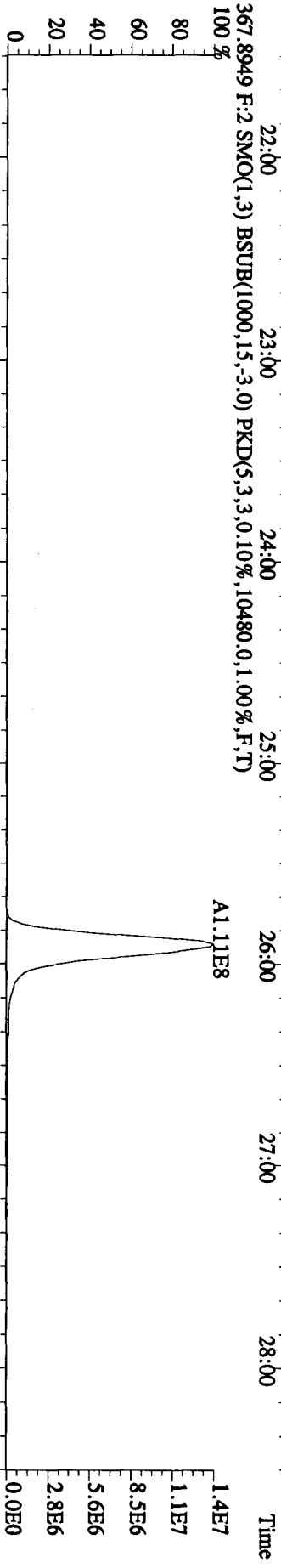
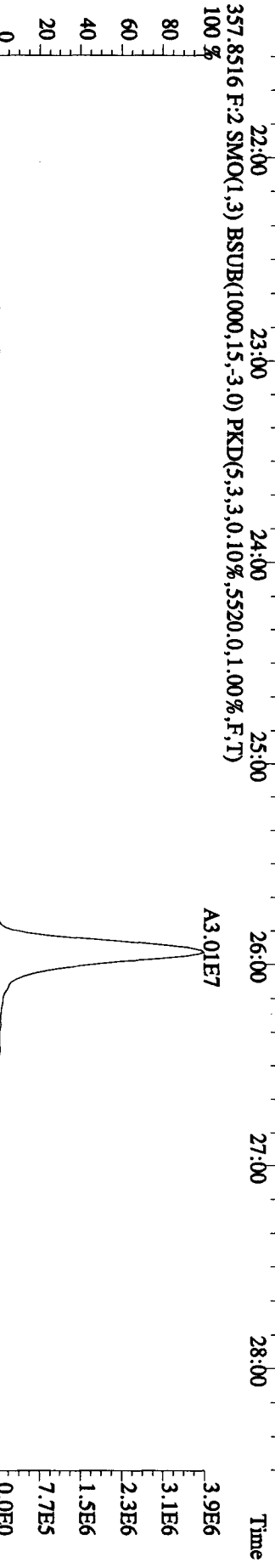
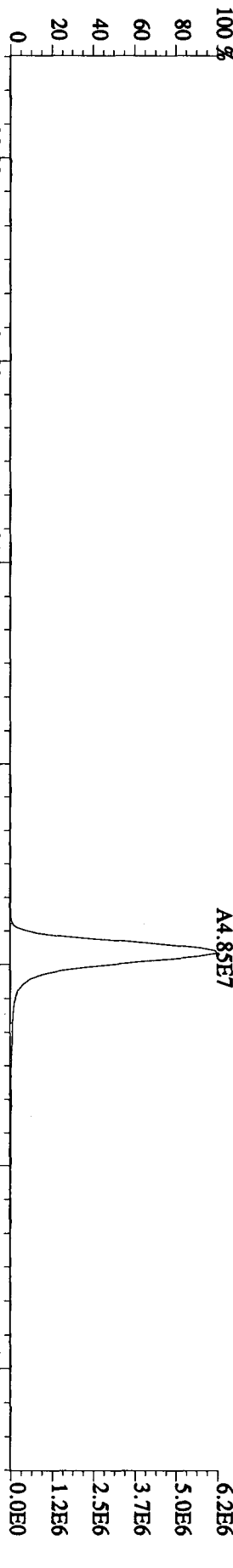
File: 041A10A1D5 #1-494 Acq: 4-JAN-2010 14:22:14 GC EI + Voltage SIR 70SE
 Sample#1 Text: ST0104 :CS3 09DXN425 Exp: DIOXIN
 339.8597 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7440.0,1.00%,F,T)
 100%



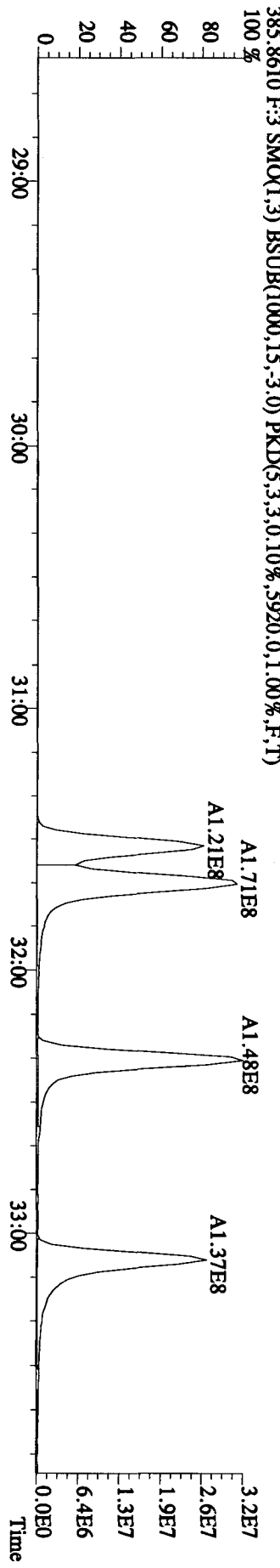
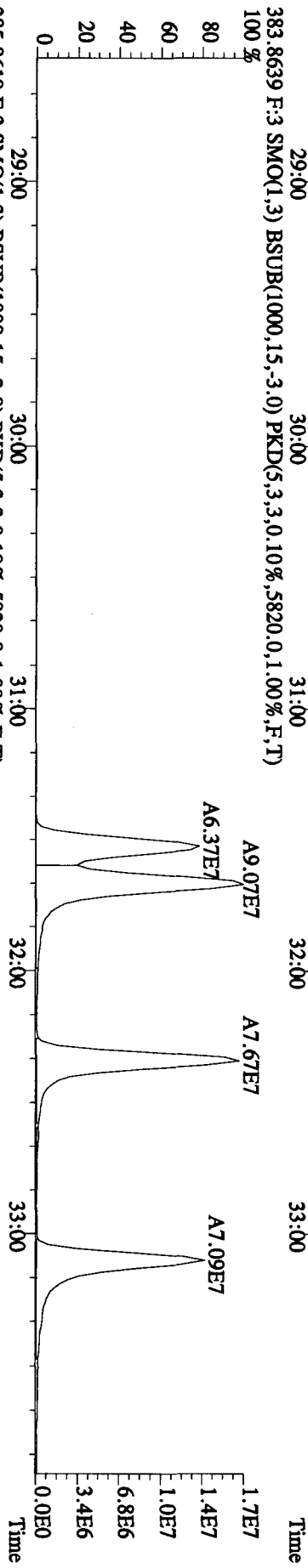
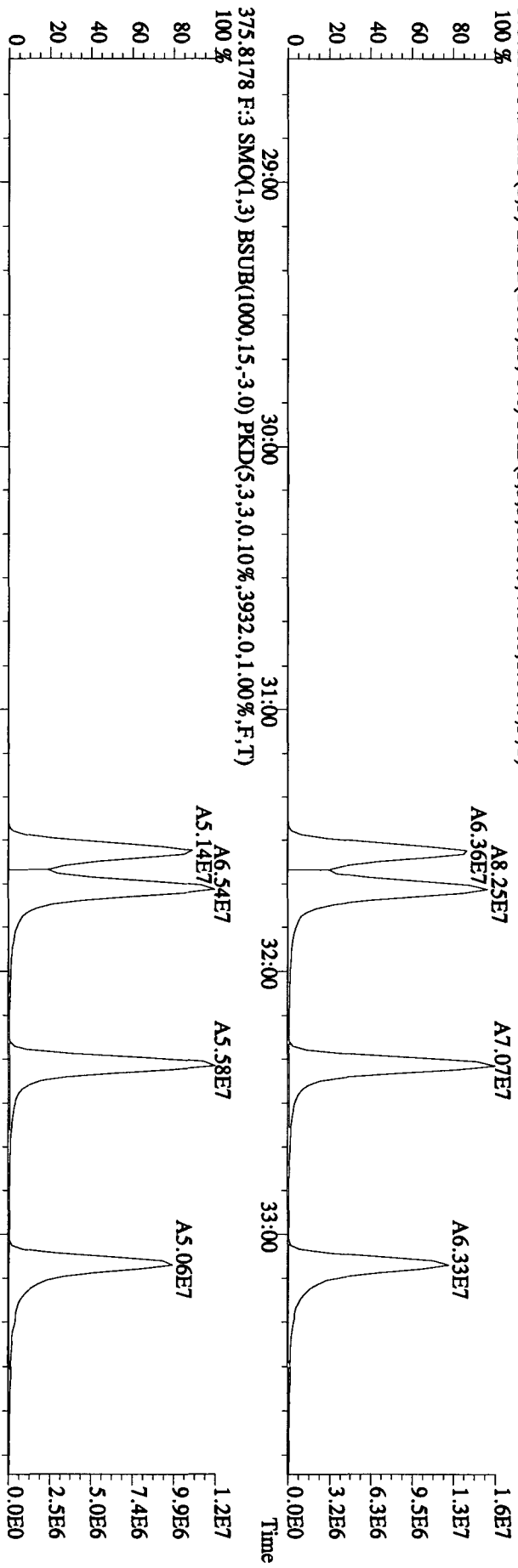
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 14:22:14 GC EI + Voltage SIR 70SE
 Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
 339.8597 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5664,0,1.00%,F,T)



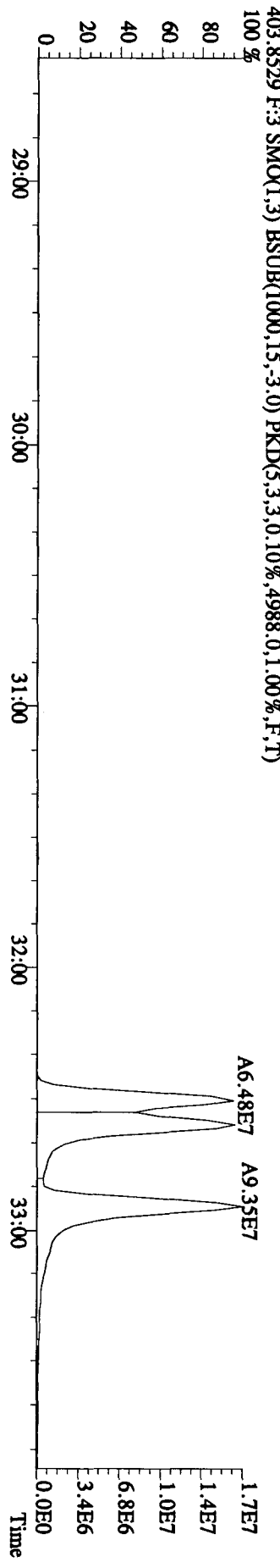
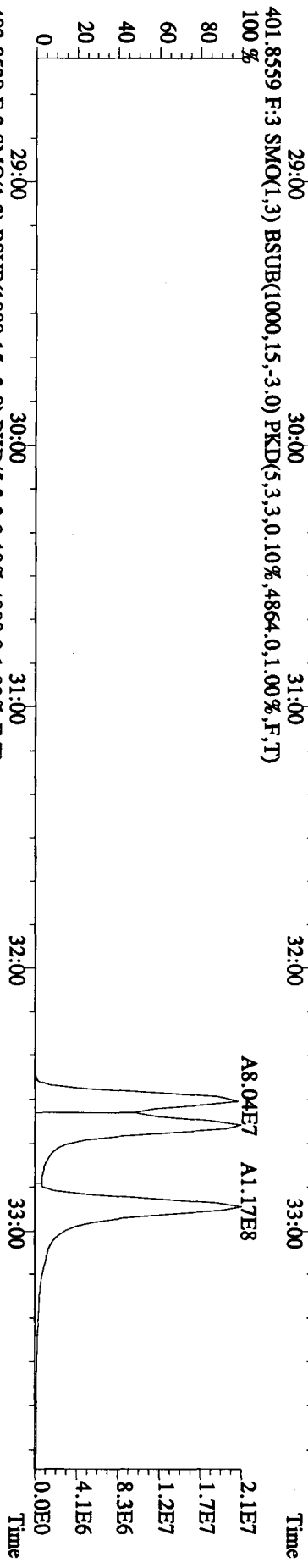
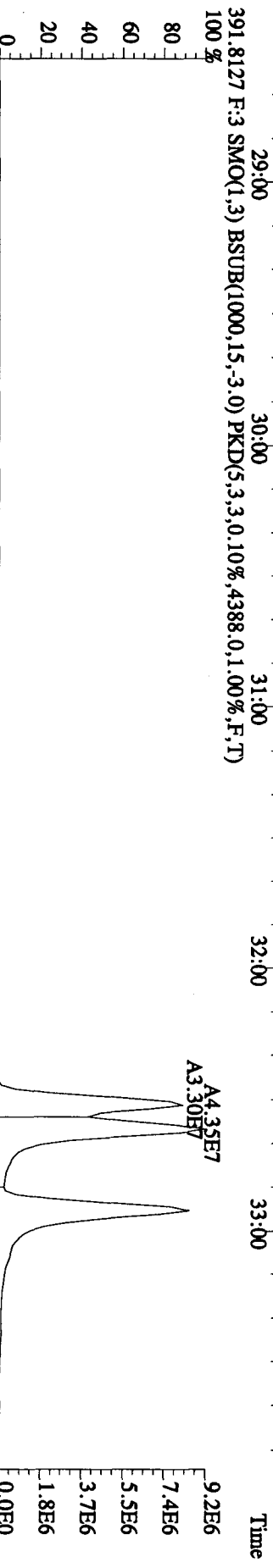
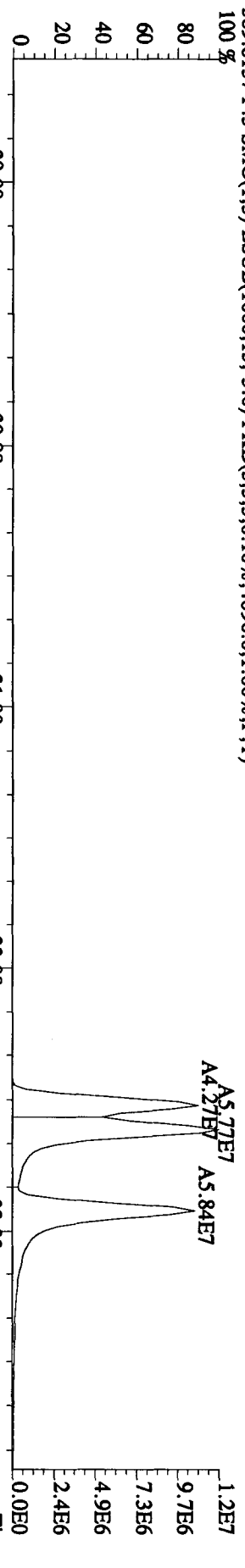
File:041A10A1D5 #1.494 Acq: 4-JAN-2010 14:22:14 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
 355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7700.0,1.00%,F,T)
 100%



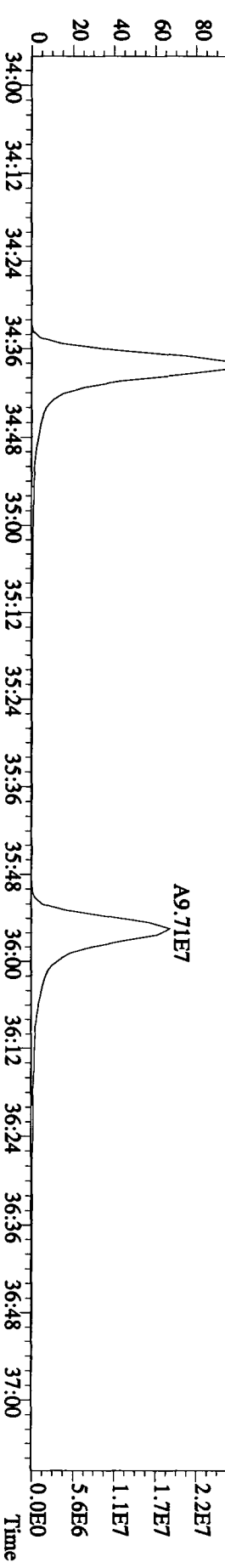
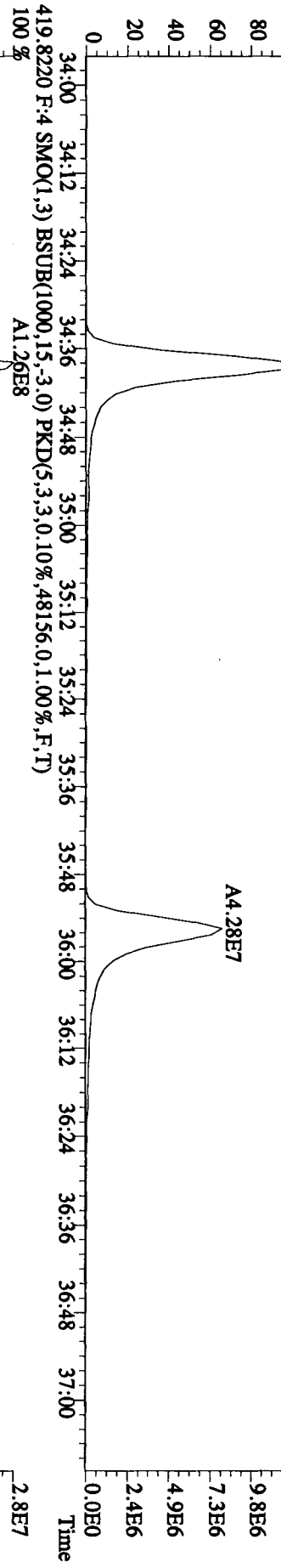
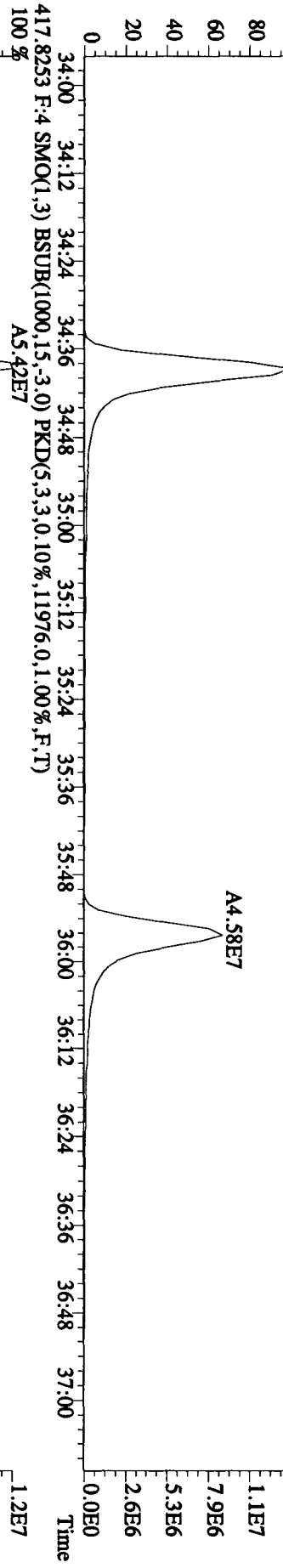
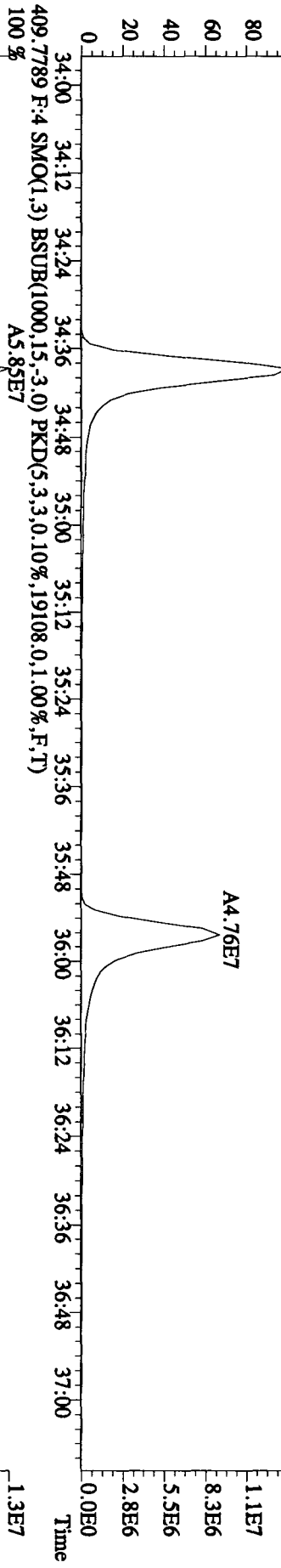
File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 14:22:14 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4496,0,1,00%,F,T)
 100%



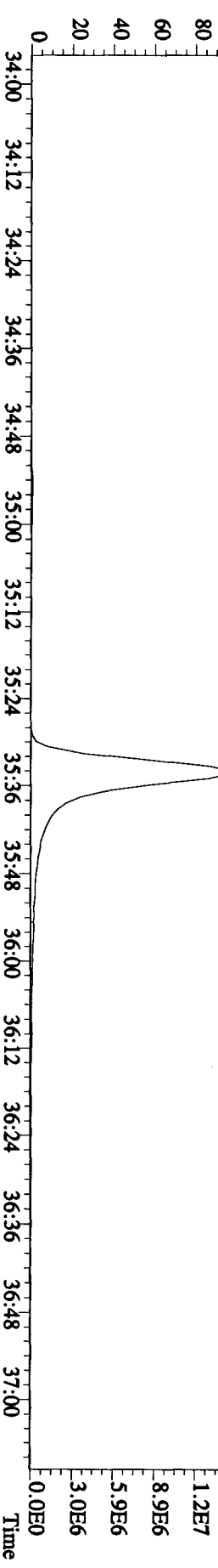
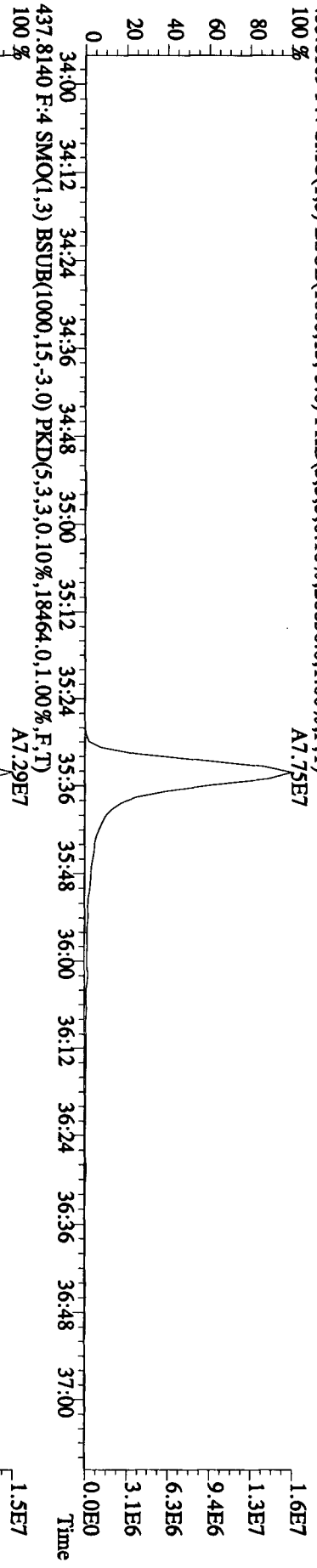
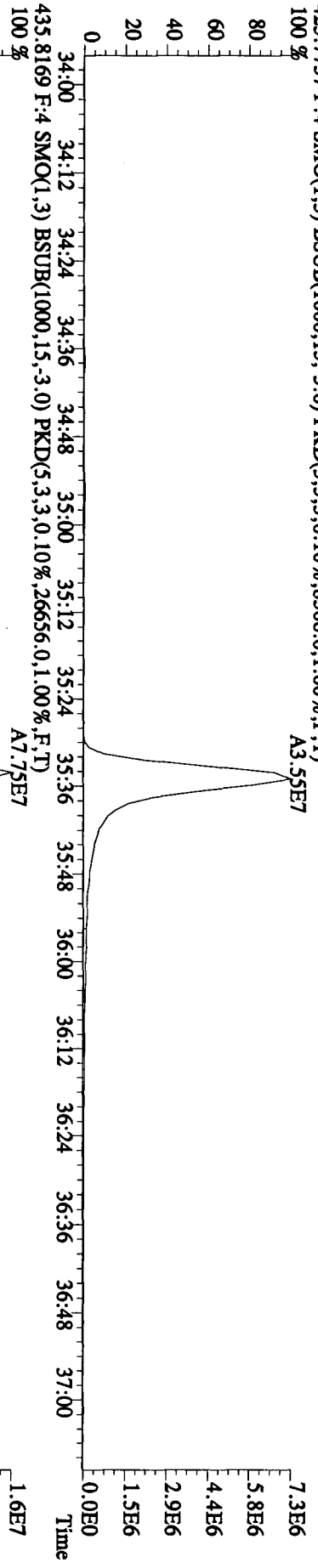
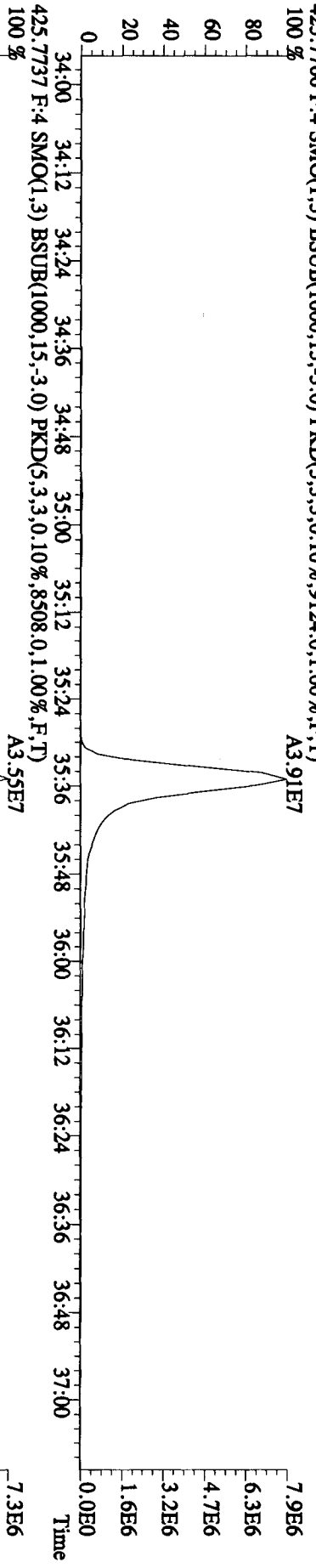
File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 14:22:14 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4096,0,1.00%,F,T)



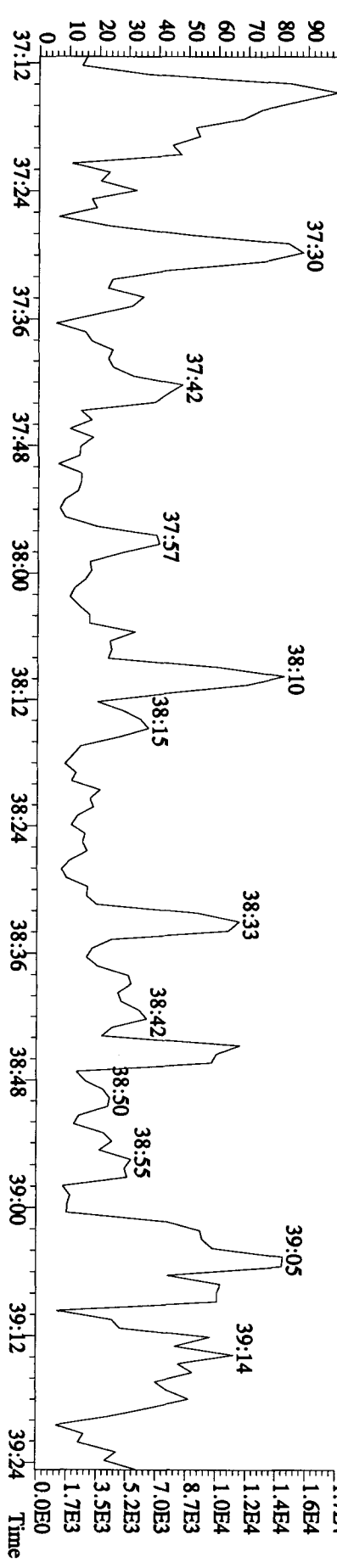
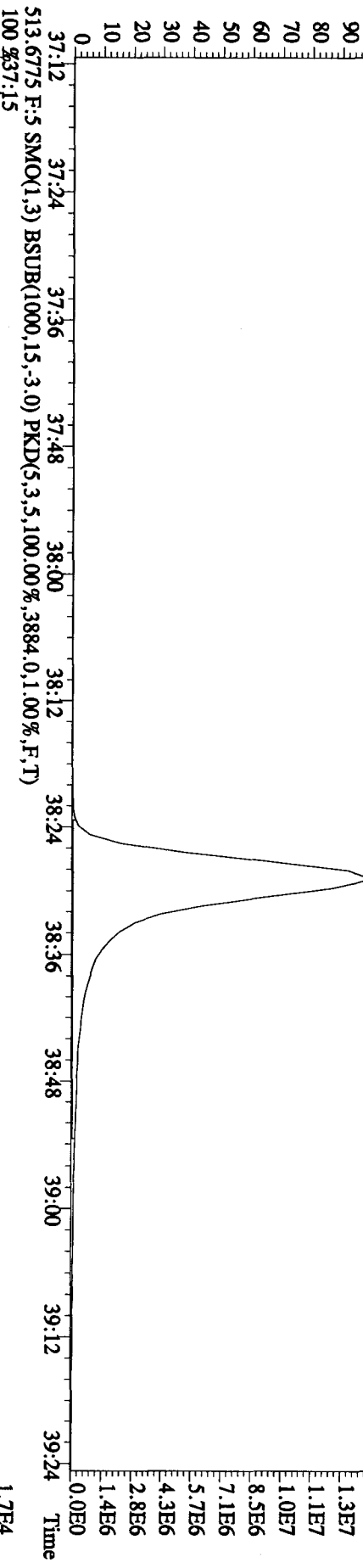
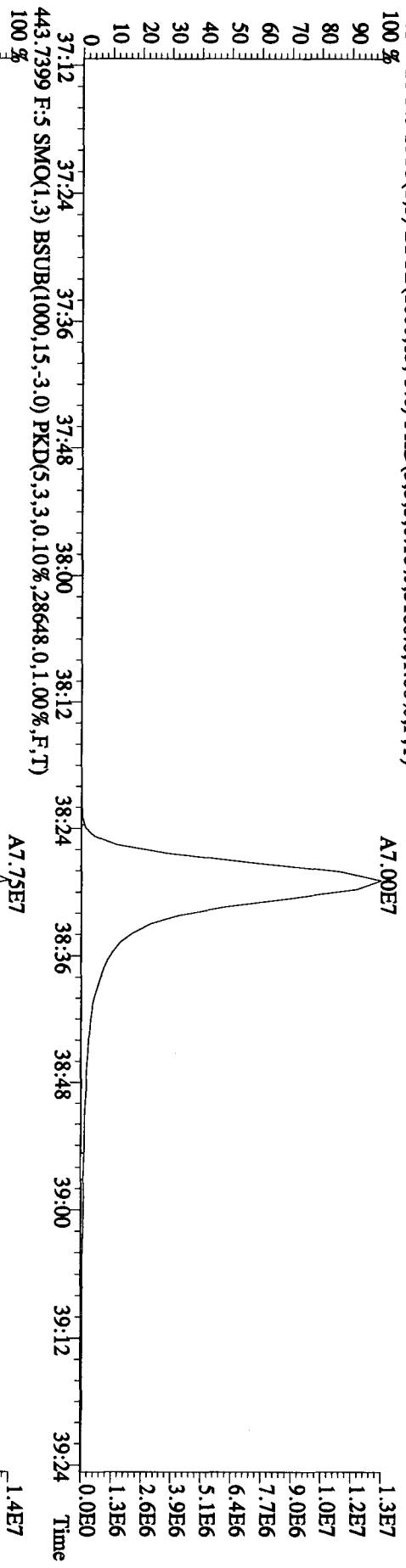
File:041A10A1D5 #1-228 Acq: 4-JAN-2010 14:22:14 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
 407.7818 F:4 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,31004,0,1,00%,F,T)
 100% A6.15E7



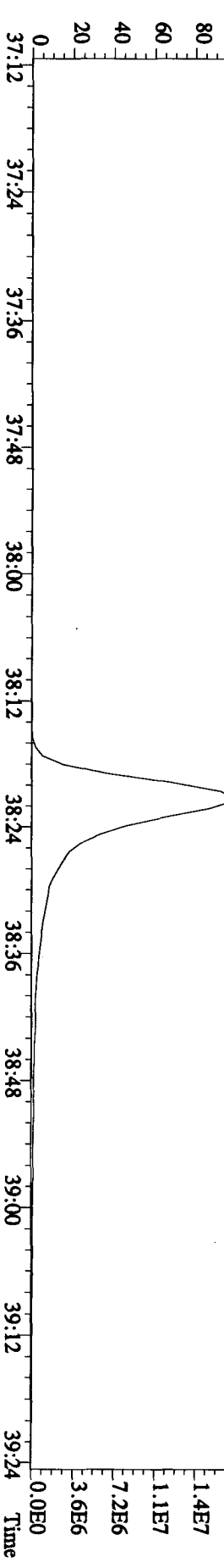
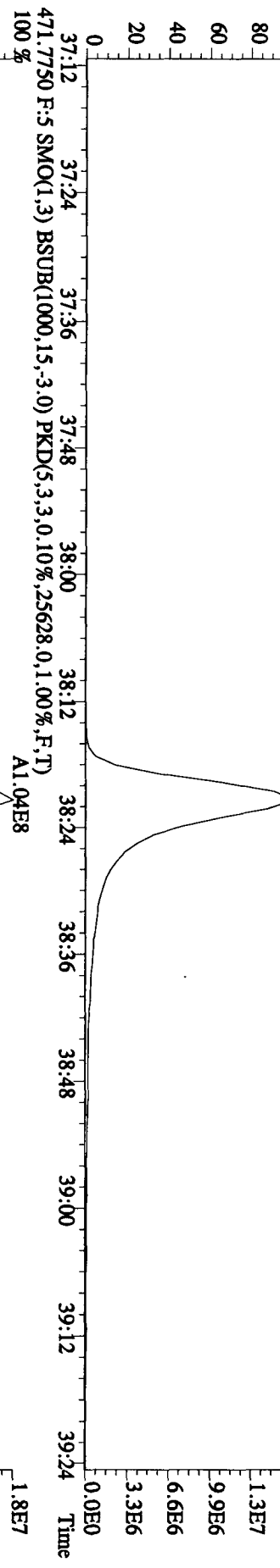
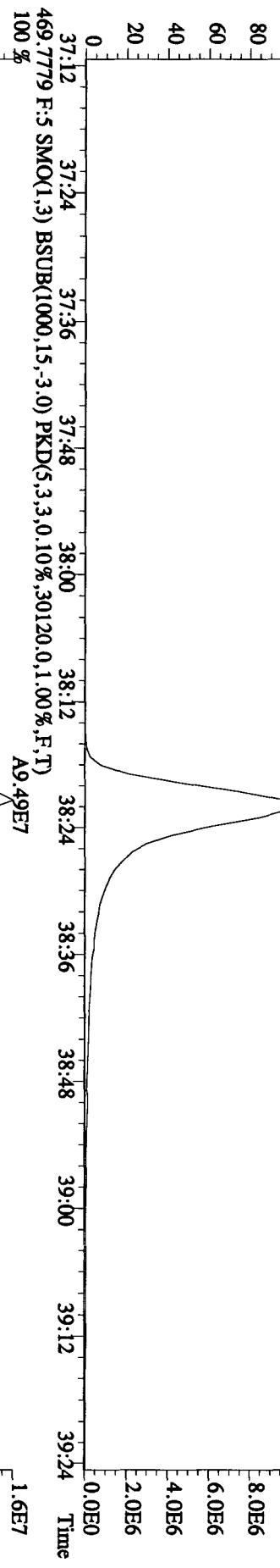
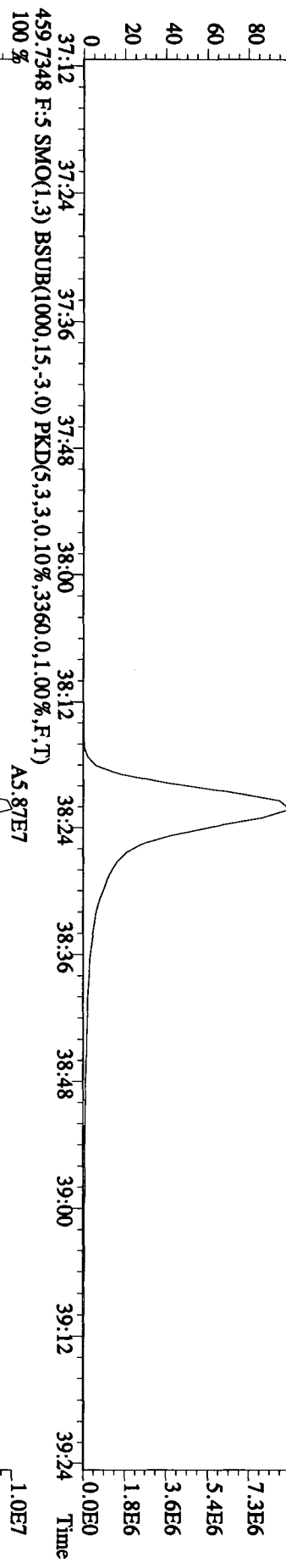
File:041A10A1D5 #1-228 Acq: 4-JAN-2010 14:22:14 GC EI + Voltage SIR 70SE
Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
423.7766 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9124.0,1.00%,F,T)
100 % A3.91E7

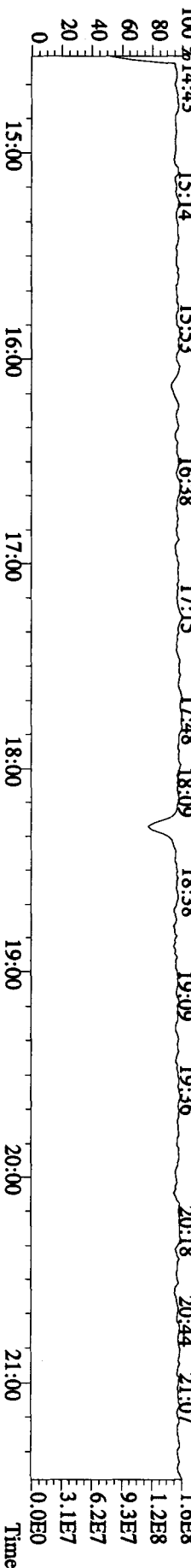
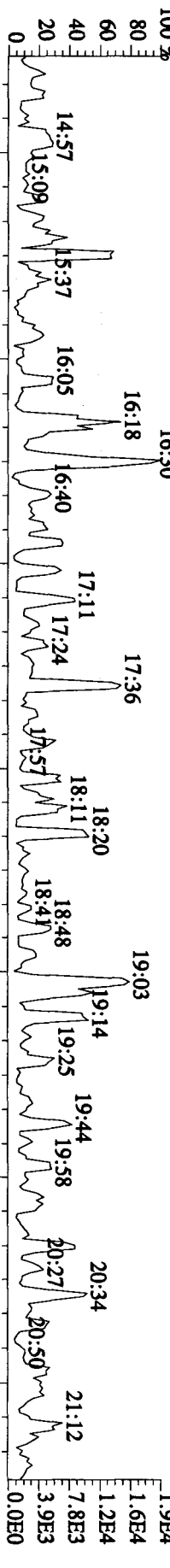
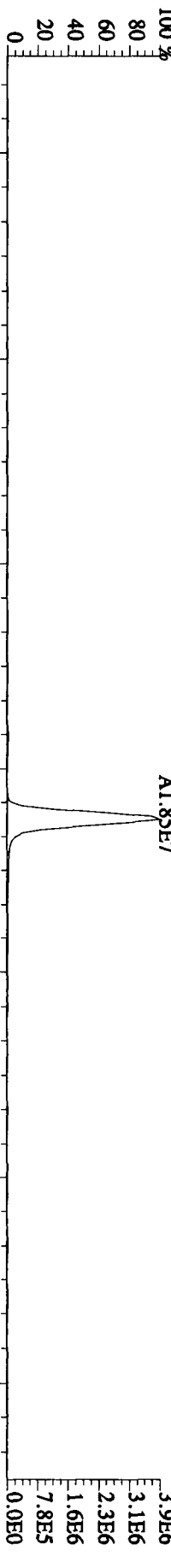
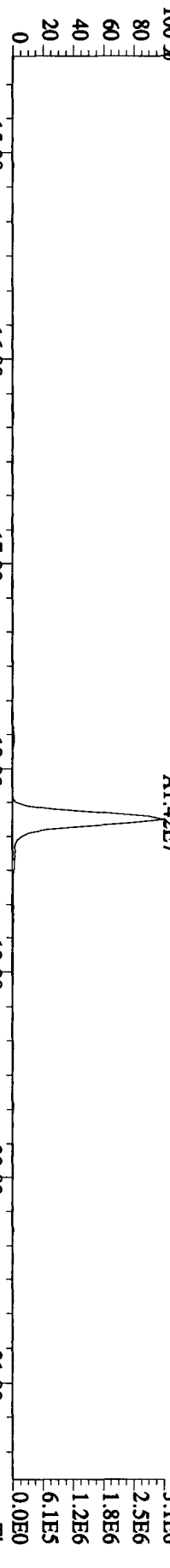
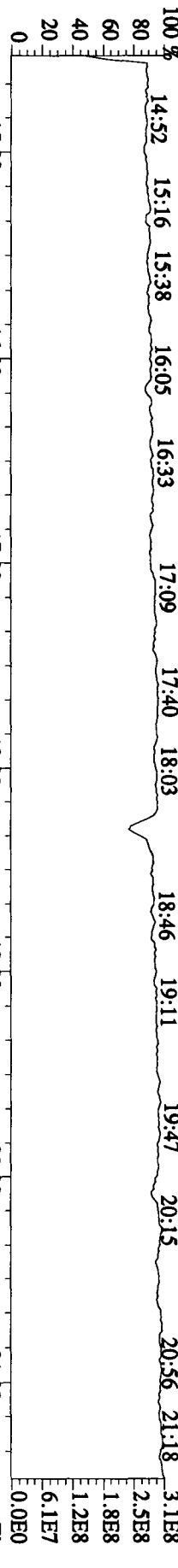


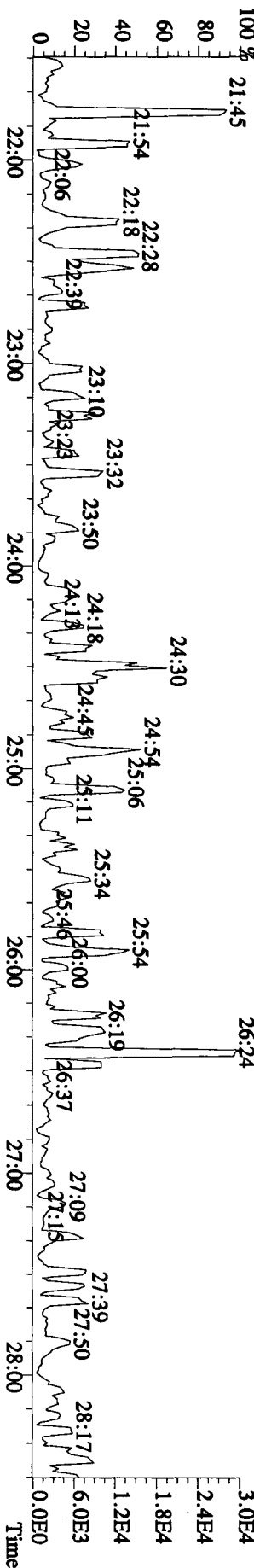
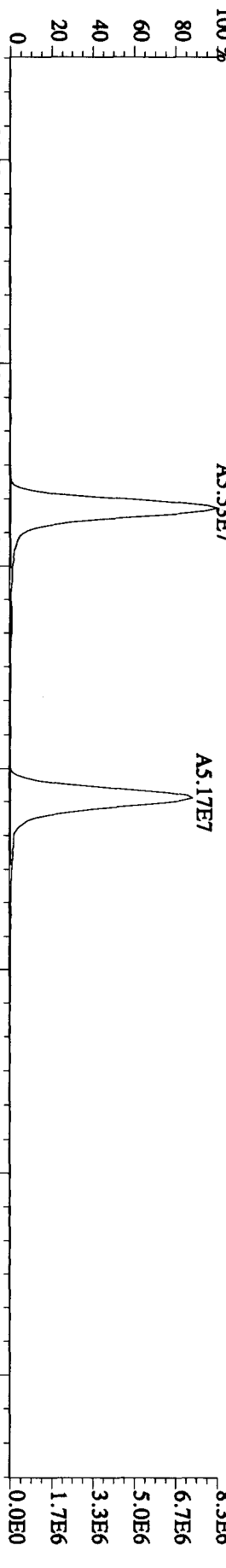
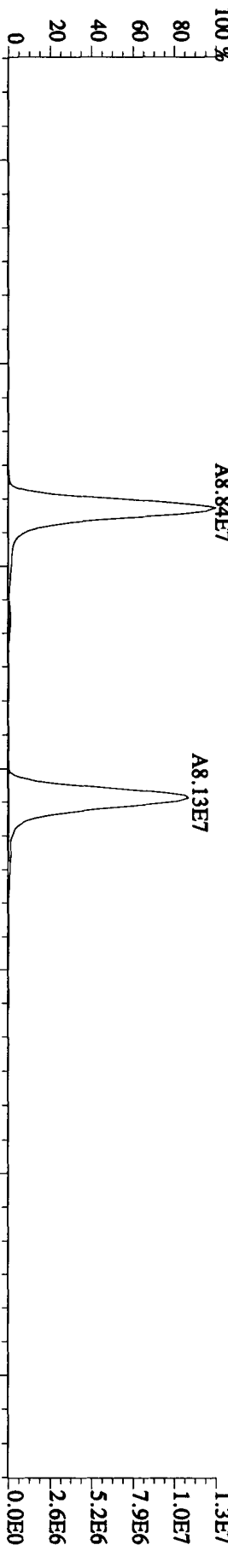
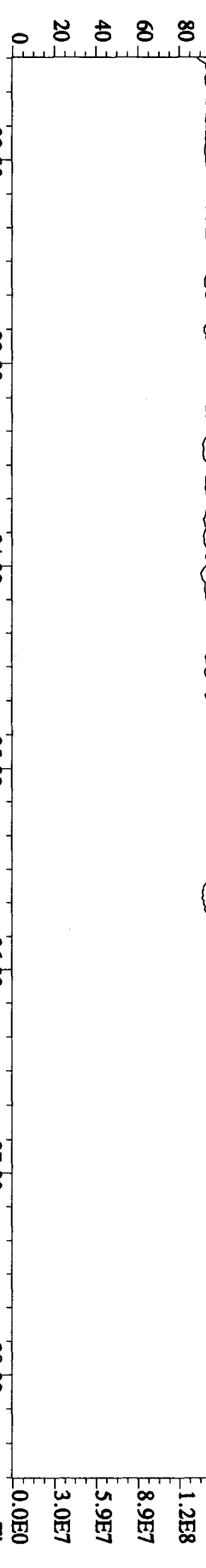
File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 14:22:14 GC EI + Voltage SIR 70SE
 Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
 441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3180.0,1.00%,F,T)



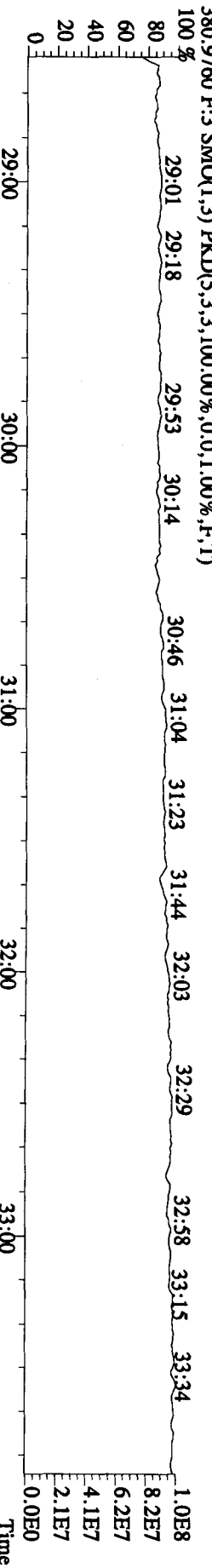
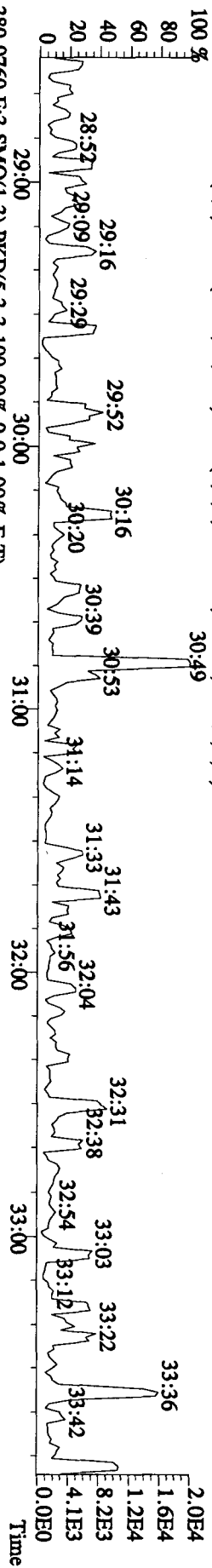
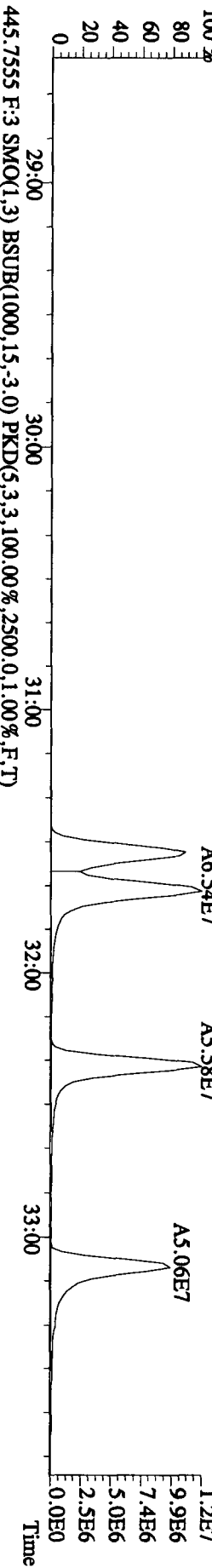
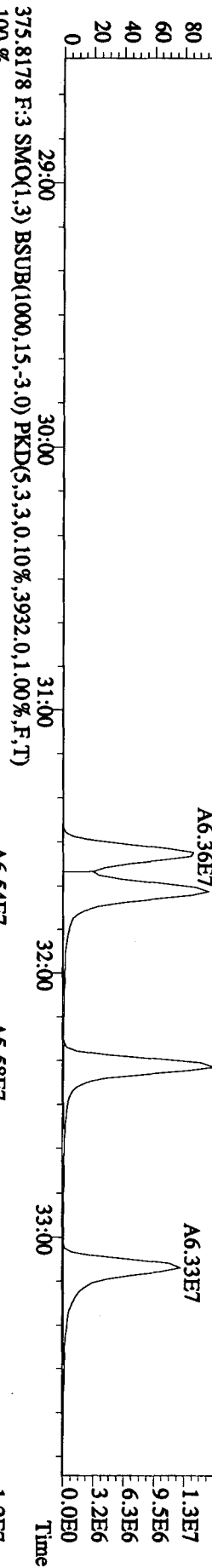
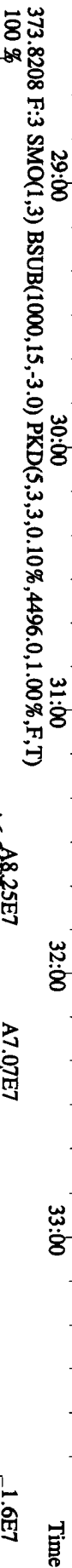
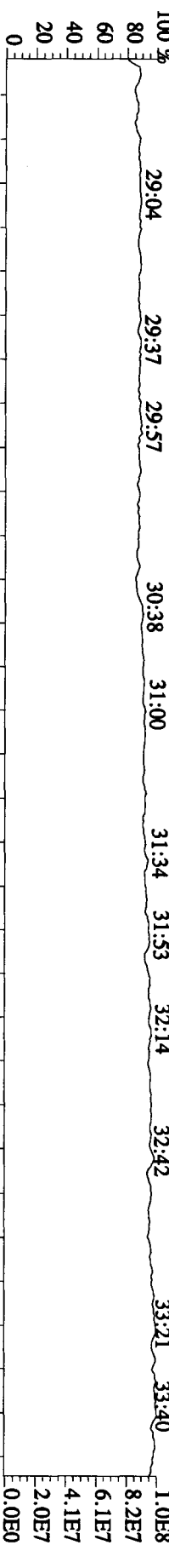
File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 14:22:14 GC EI + Voltage SIR 70SE
 Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
 457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3732.0,1.00%,F,T)
 100%







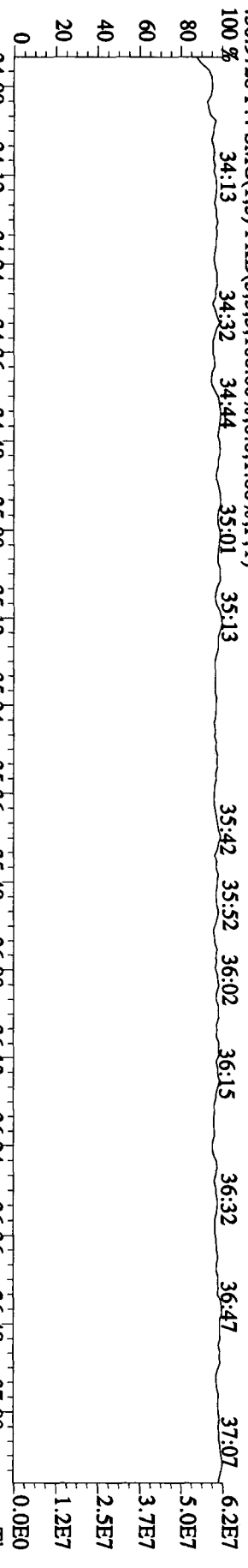
File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 14:22:14 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST0104 :CSS 09DXN425 Exp:DIOXIN
 392.9760 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 29:04 29:37 29:57 30:38 31:00 31:34 31:53 32:14 32:42 33:21 33:40



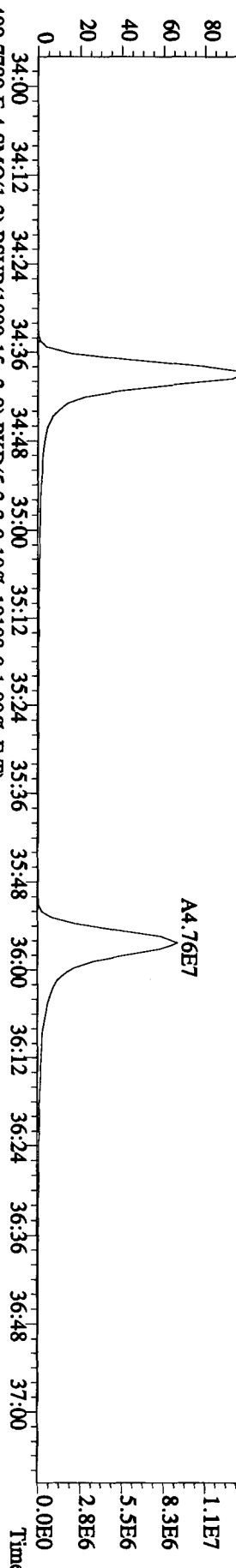
File:041A10A1D5 #1-228 Acq: 4-JAN-2010 14:22:14 GC EI+ Voltage SIR 70SE

Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN

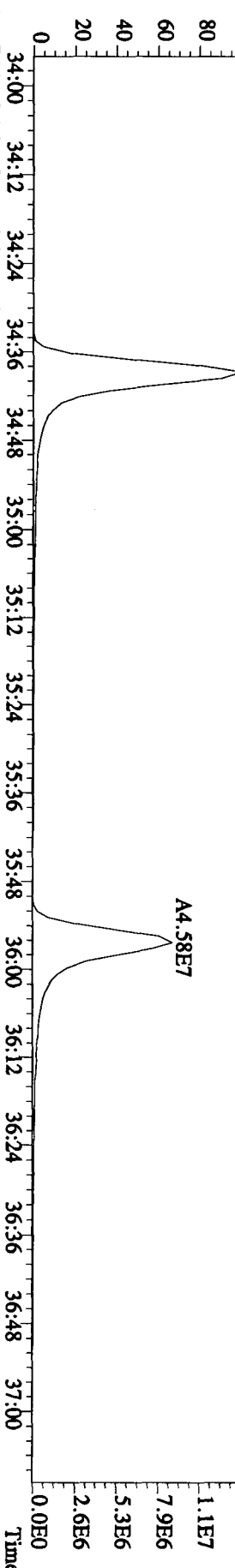
430.9728 F:4 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



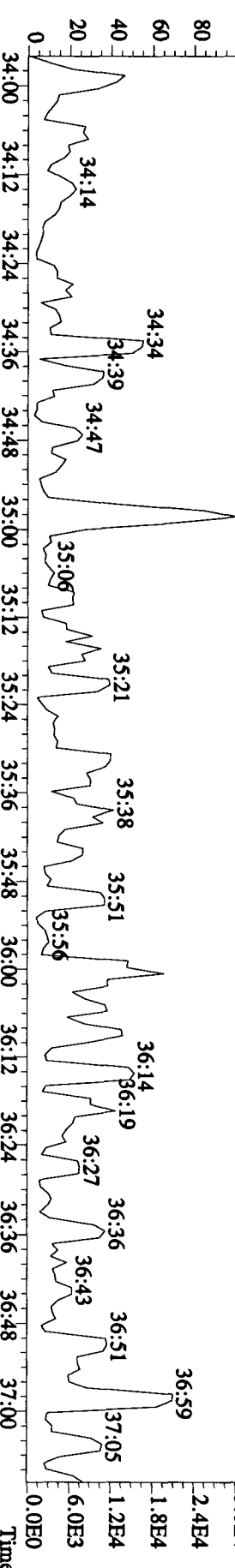
407.7818 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,31004,0.1,00%,F,T)



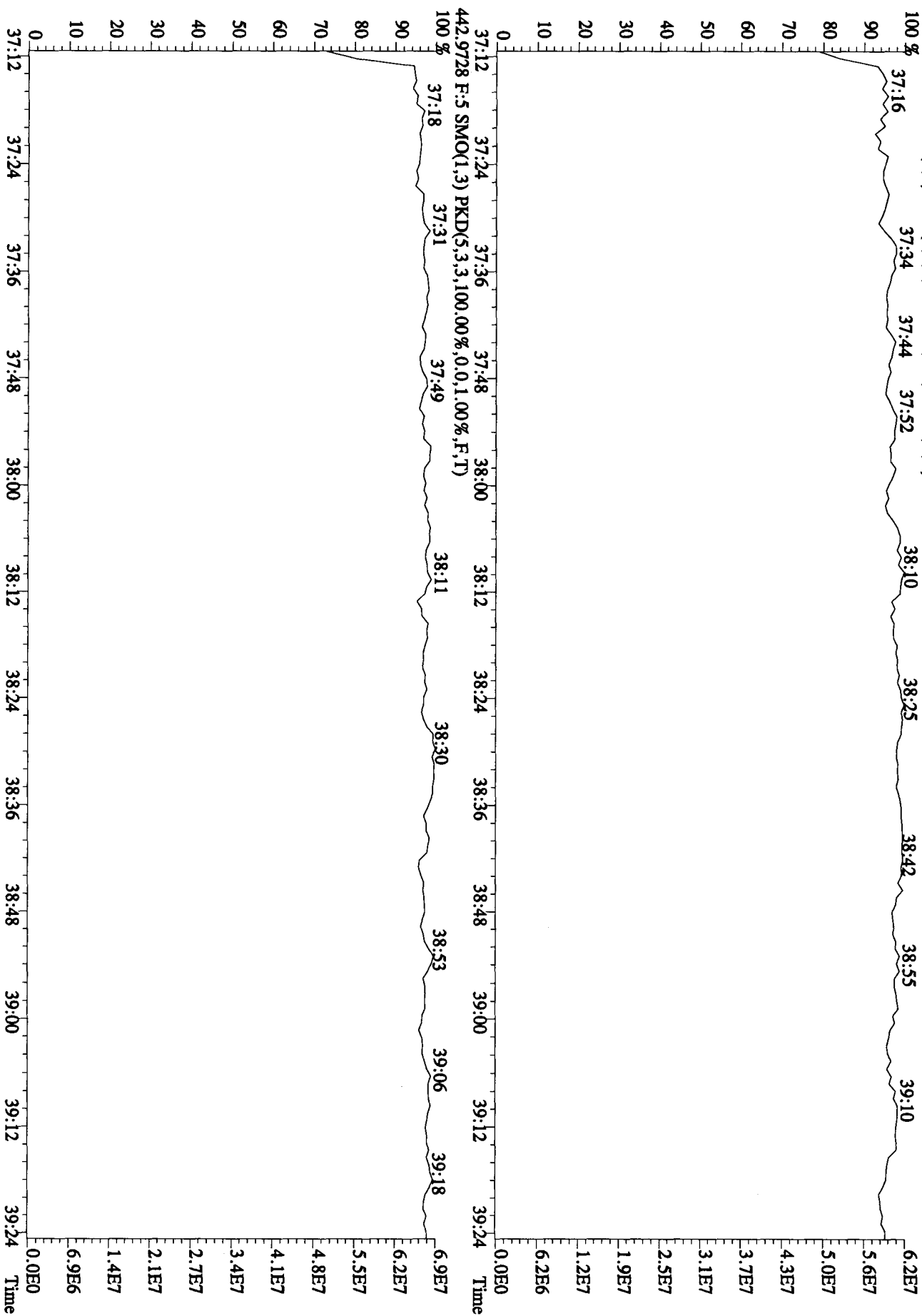
409.7789 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,19108,0.1,00%,F,T)



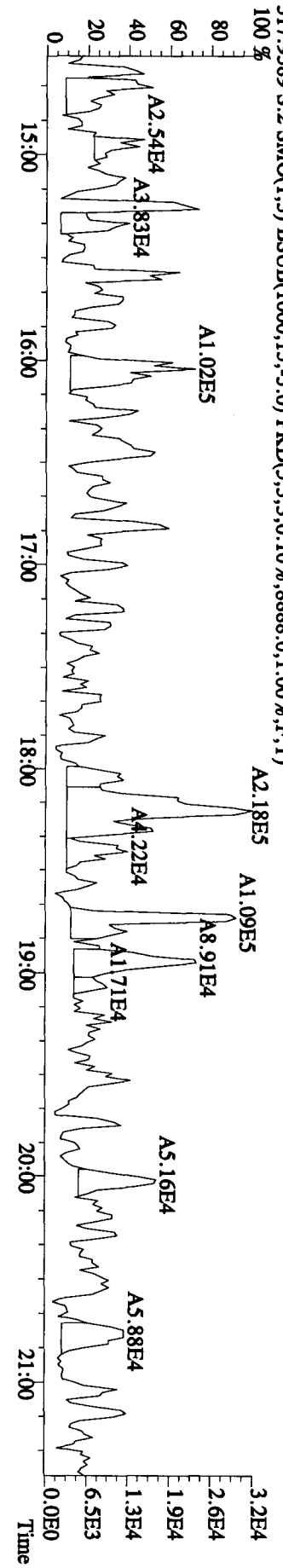
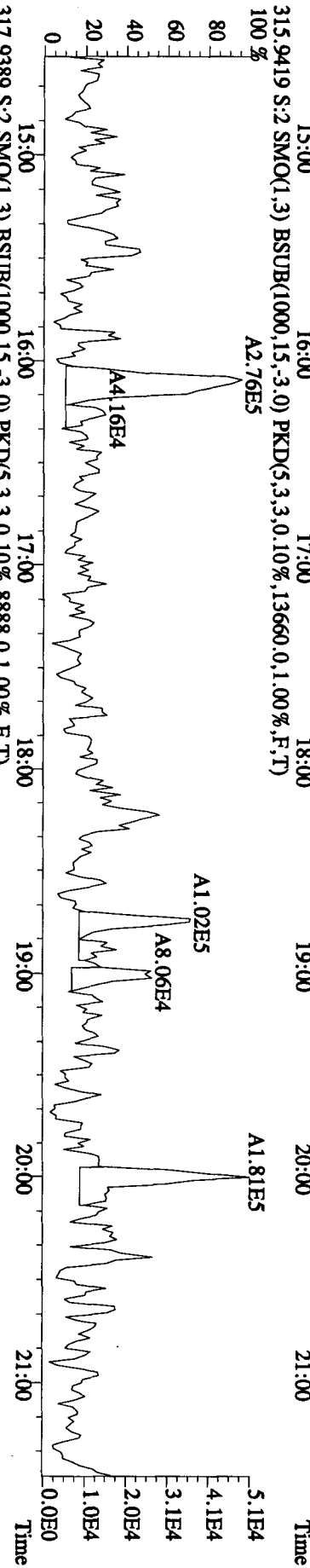
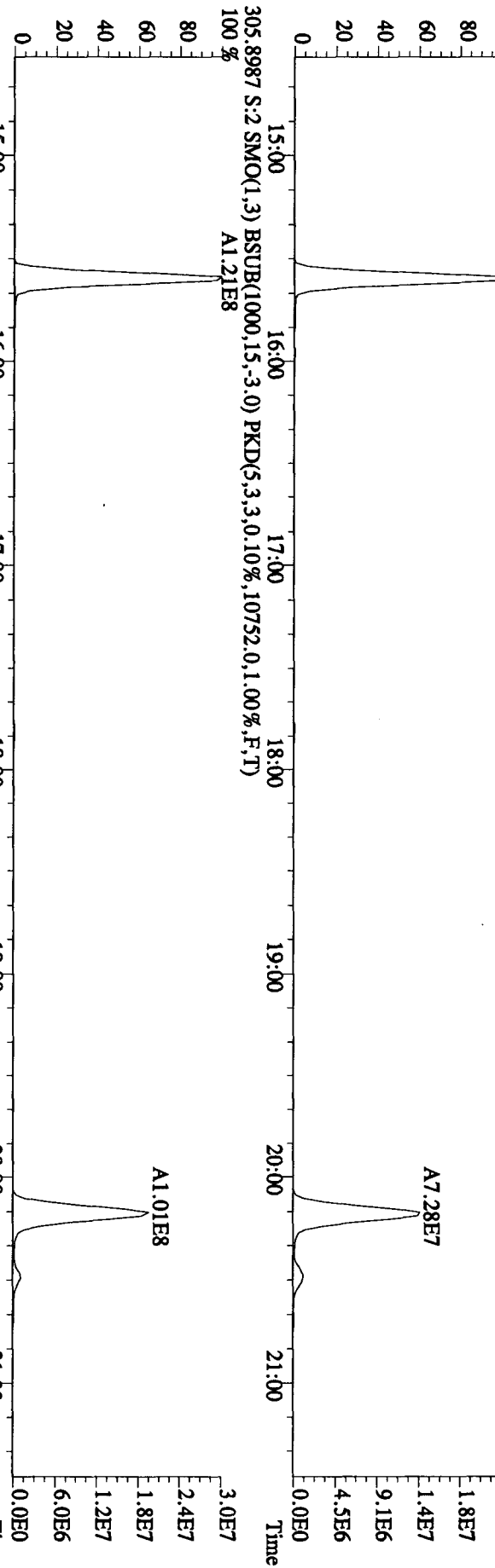
479.7165 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,4876,0.1,00%,F,T)



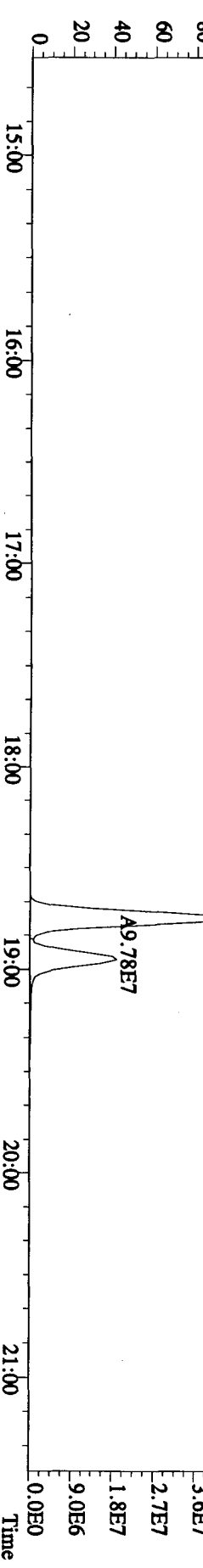
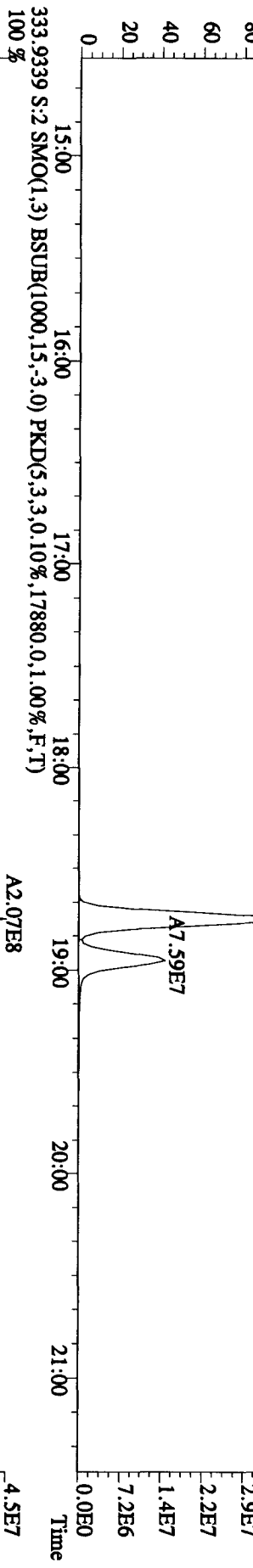
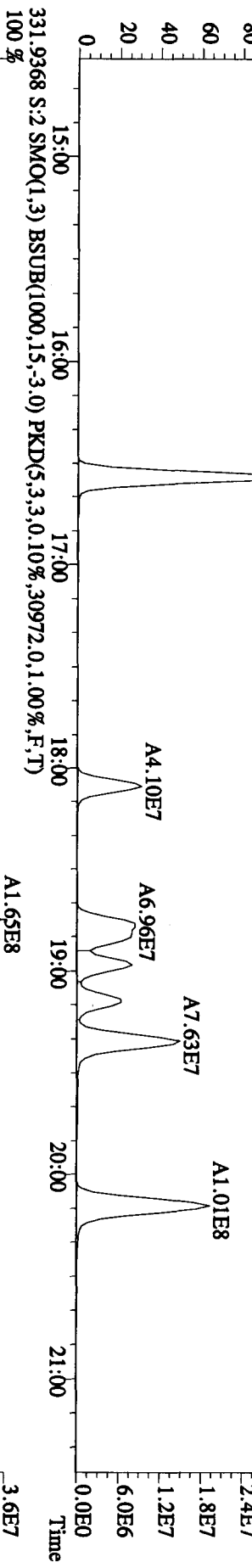
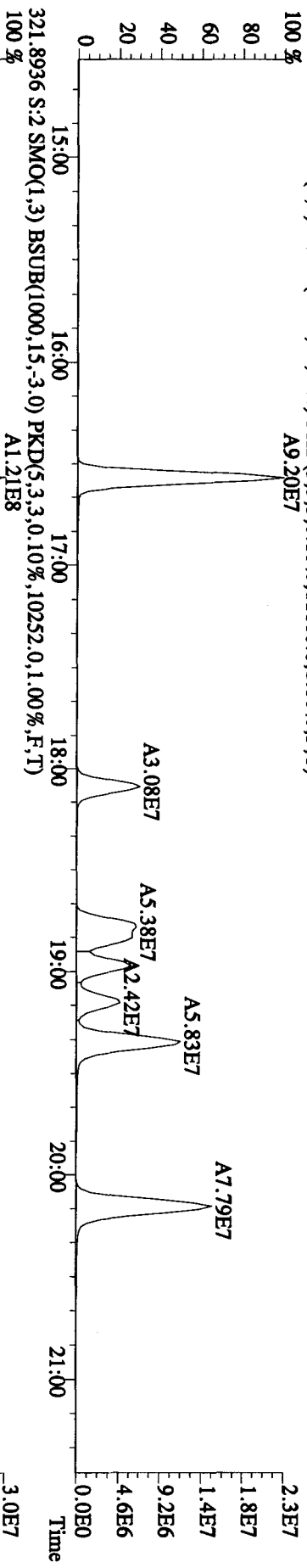
File:041A10A1D5 #1-161 Acq: 4-JAN-2010 14:22:14 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST0104 :CS3 09DXN425 Exp:DIOXIN
 454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



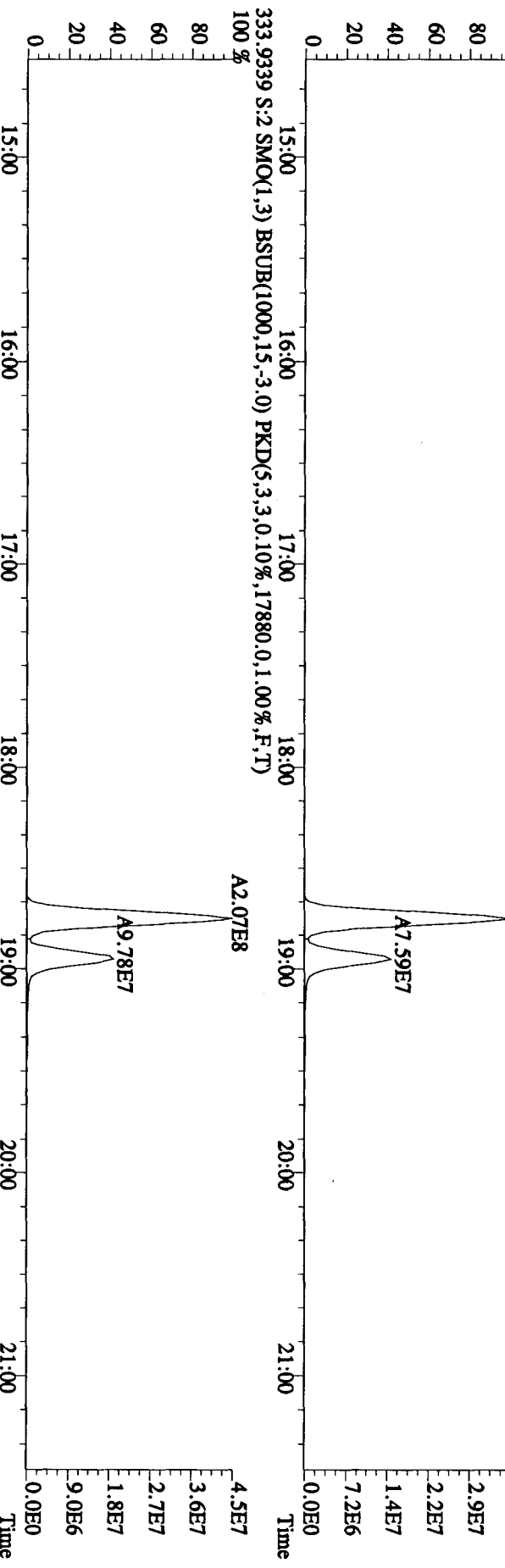
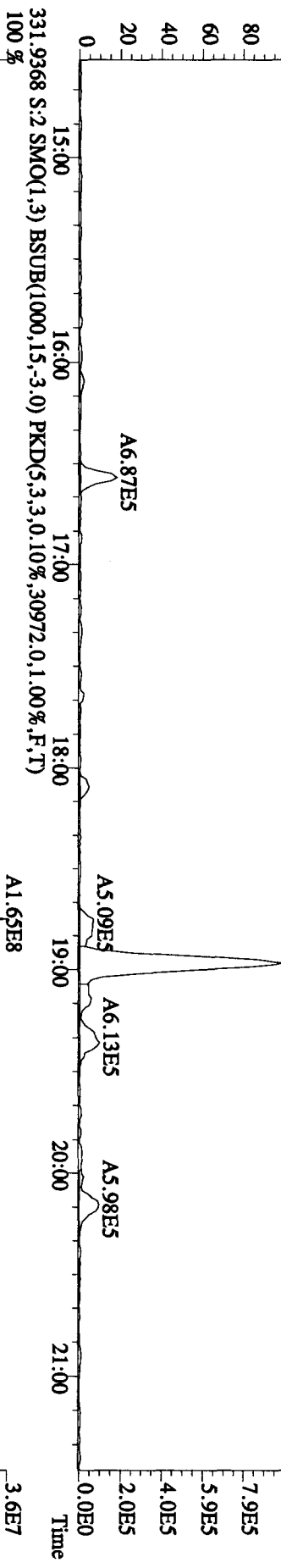
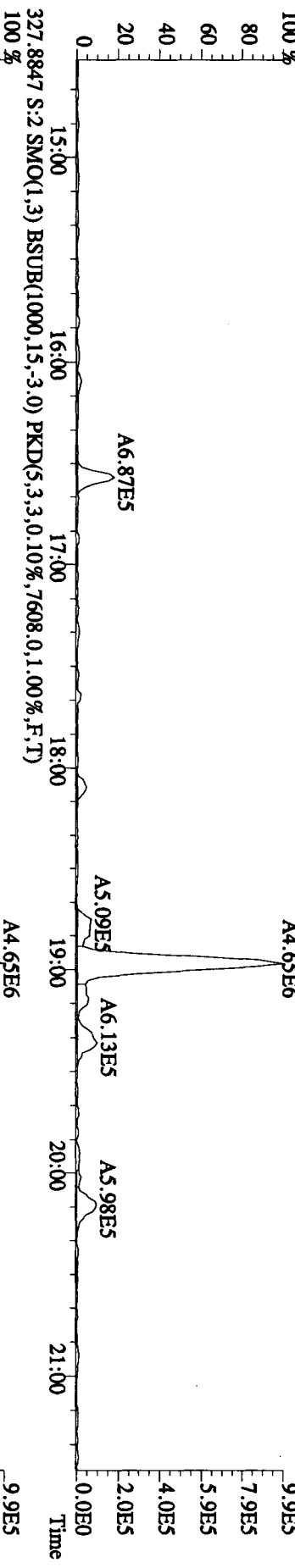
File:041A10A1D5 #1-411 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPM 3732-04 Exp:DIOXIN
 303.9016 S:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0,10%,7852.0,1.00%,F,T)
 100% A9.11E7



File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 15:04:34 GC EI + Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,11600,0,1,00%,F,T)
 100%



File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 15:04:34 GC EI + Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7608,0,1,00%,F,T)

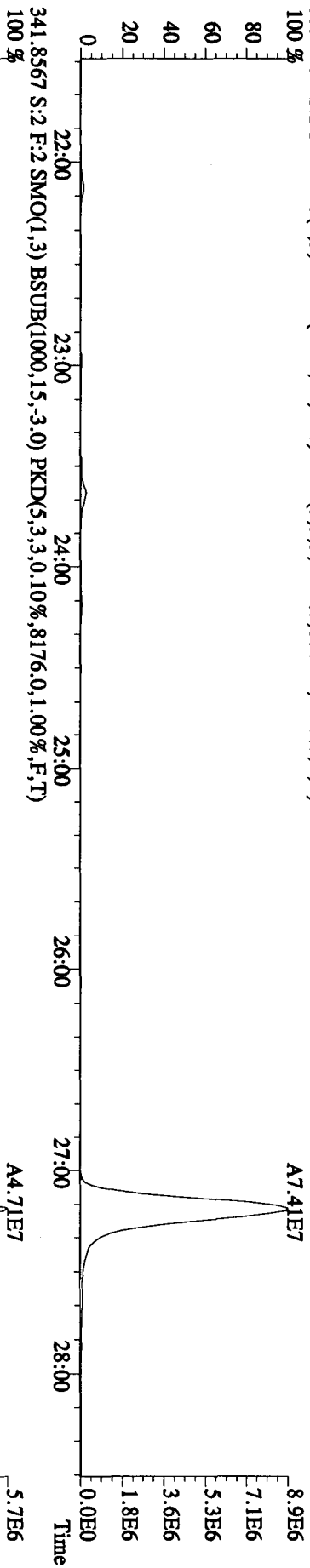


File:041A10A1D5 #1-495 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE

Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN

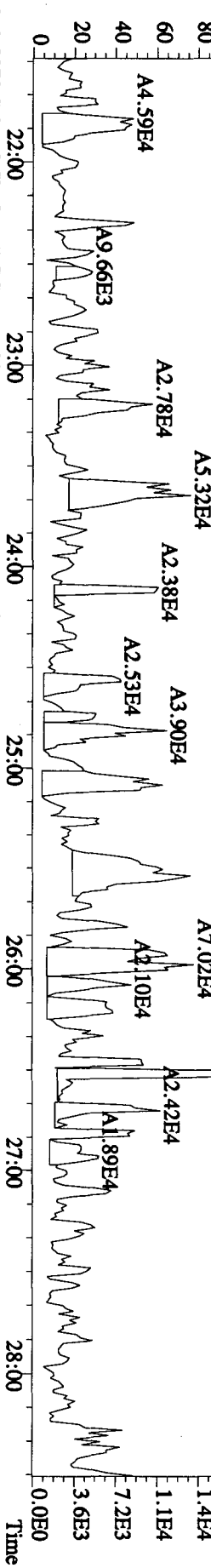
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6644,0,1.00%,F,T)

100%



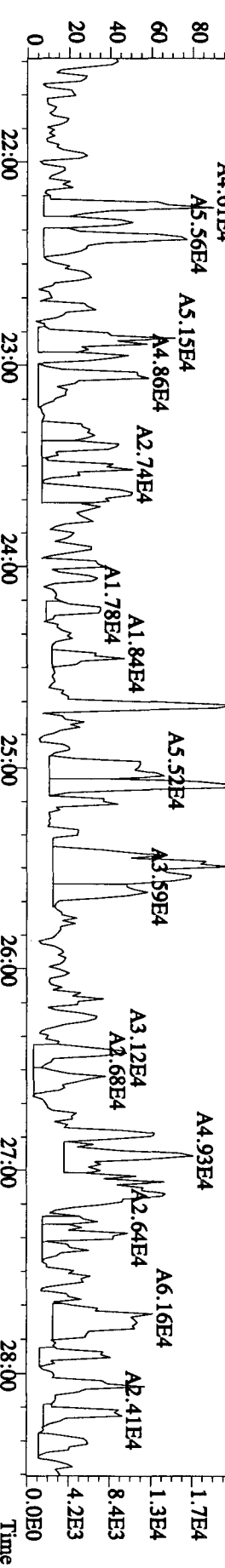
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3584,0,1.00%,F,T)

100%

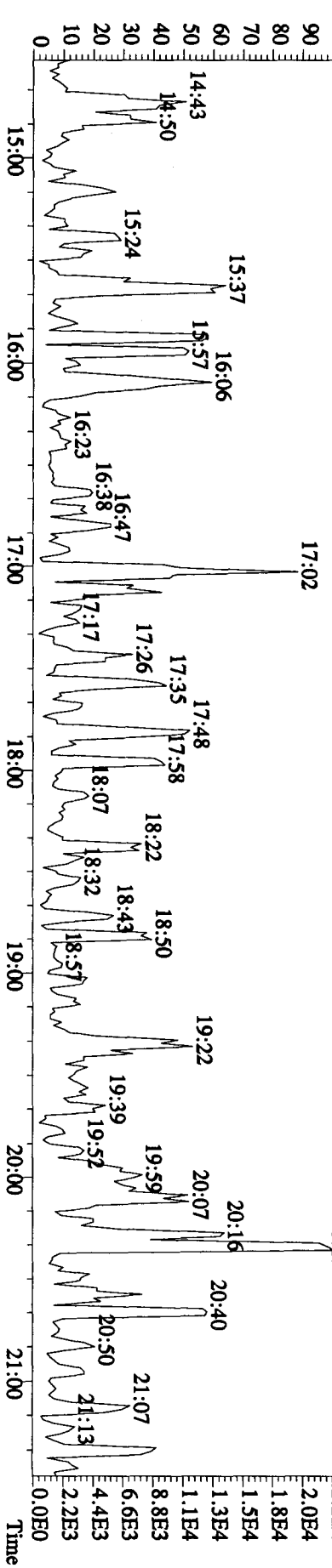
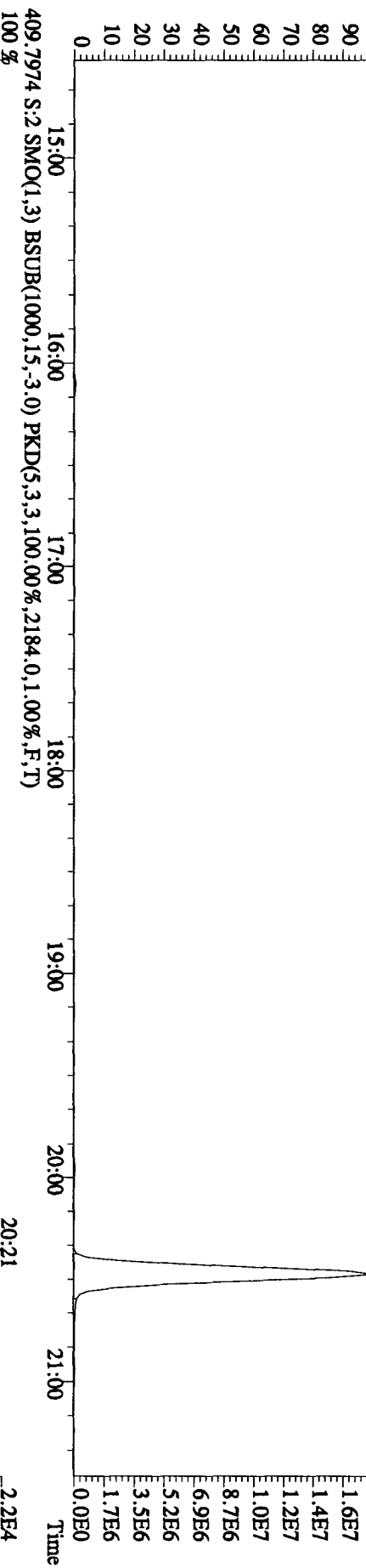
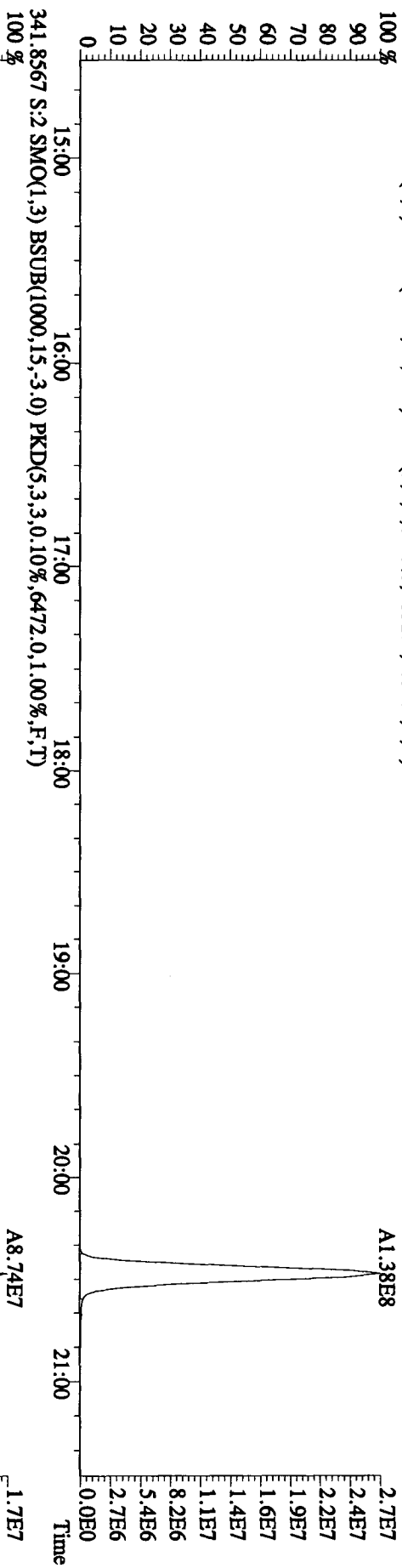


353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3816,0,1.00%,F,T)

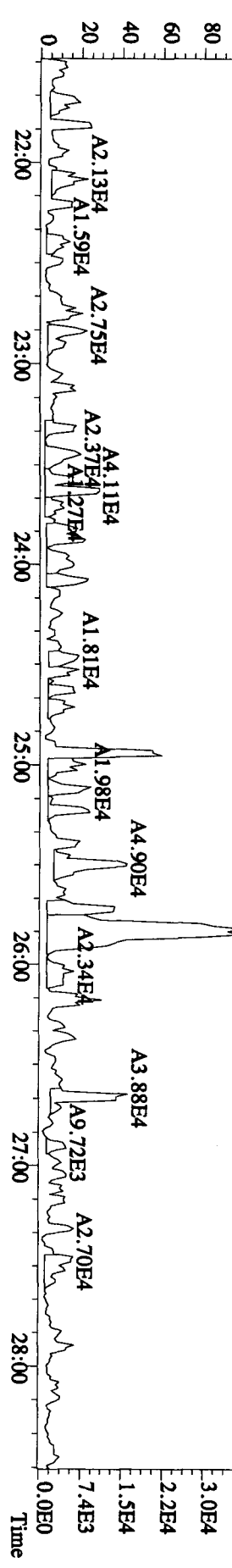
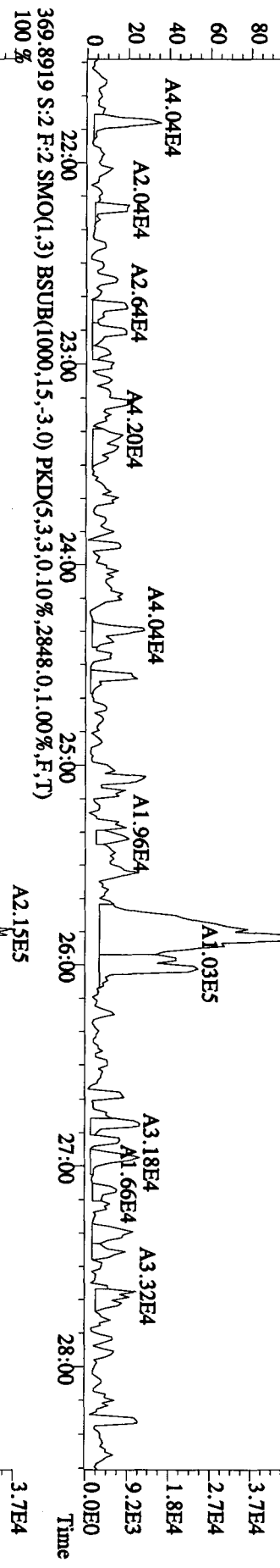
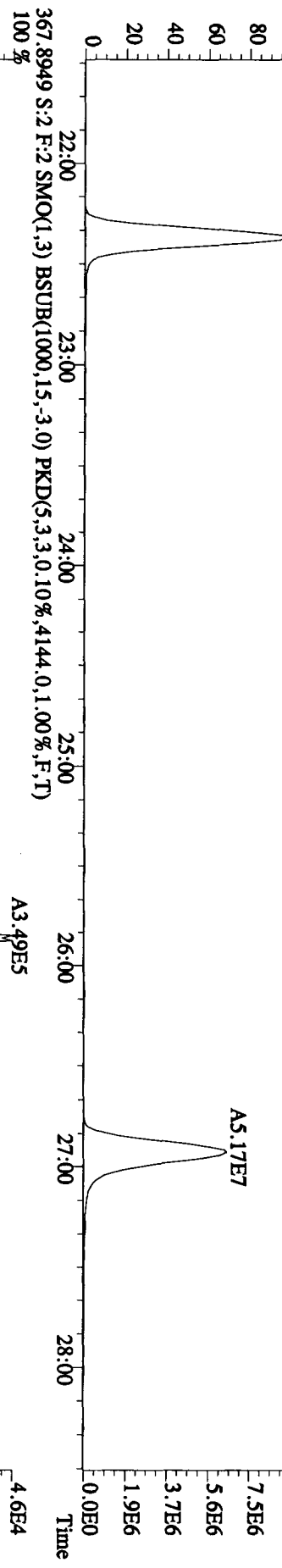
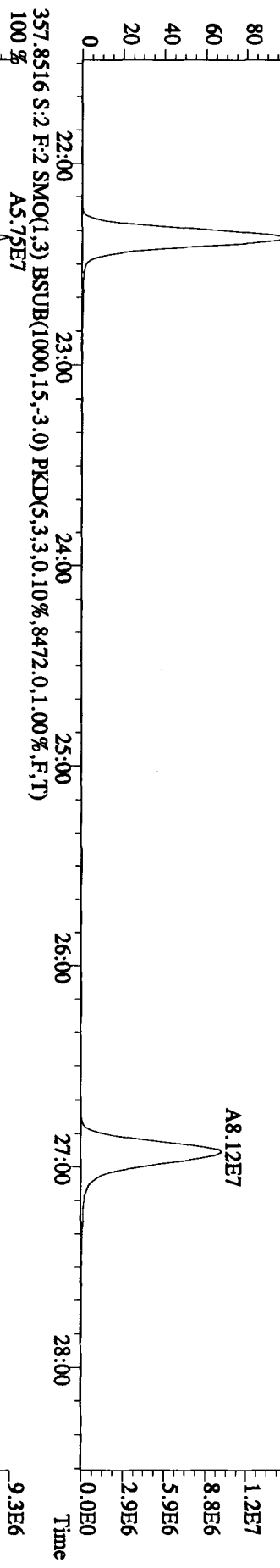
100%



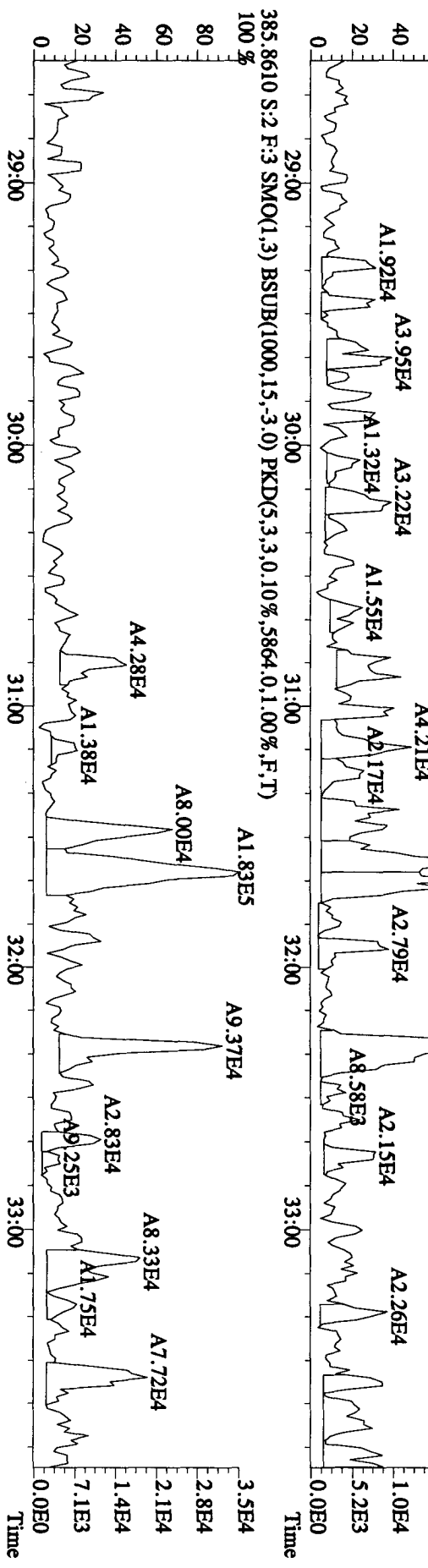
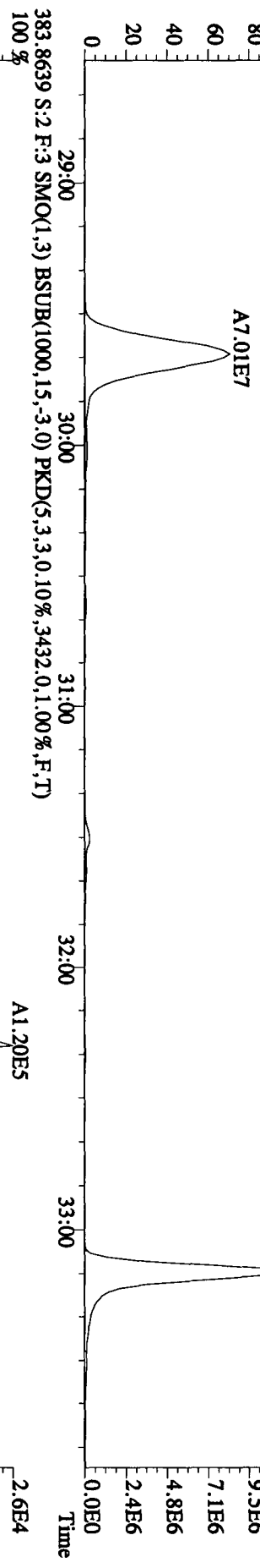
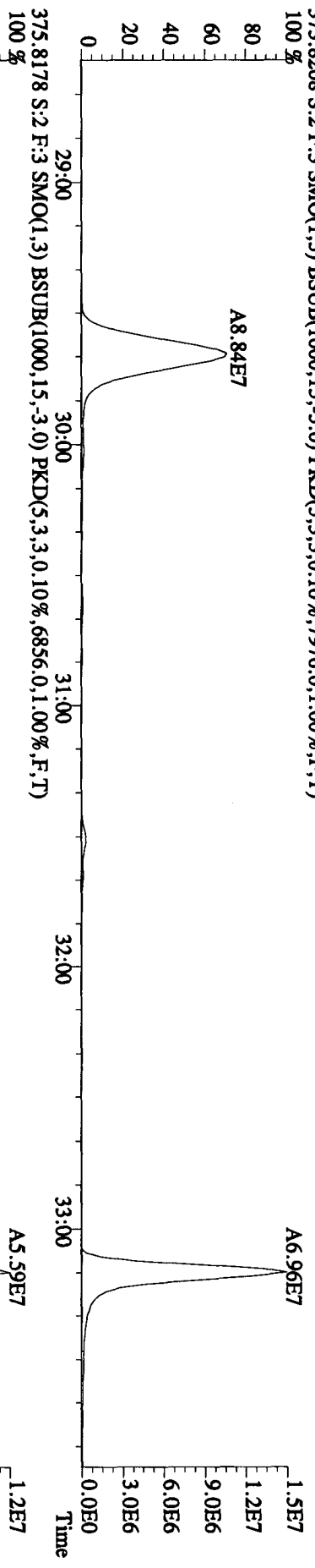
File:041A10A1D5 #1-411 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 339.8597 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,4832.0,1.00%,F,T)



File:04JA10A1D5 #1-495 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8552,0.1,00%,F,T)
 100% A8.99E7



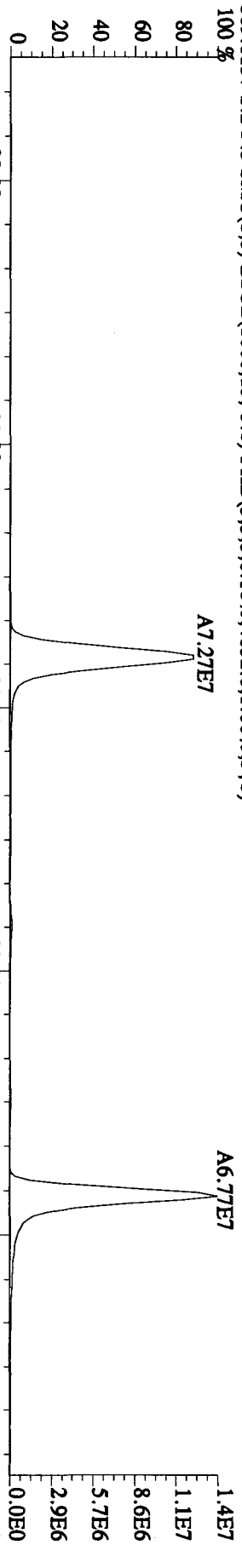
File:041A10A1D5 #1-362 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7976,0.1,00%,F,T)



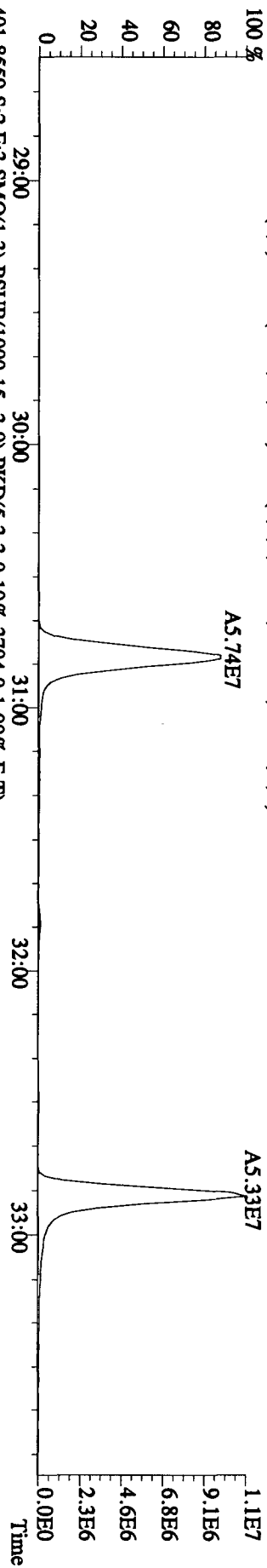
File:04JAN10A1IDS #1-362 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE

Sample#2 Text:CP0104 :DB-5 CP5M 3732-04 Exp:DIOXIN

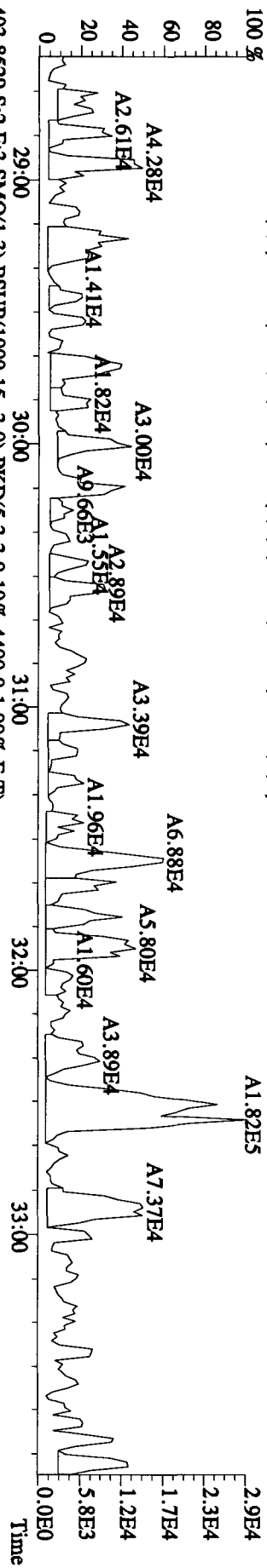
389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4832.0,1.00%,F,T)



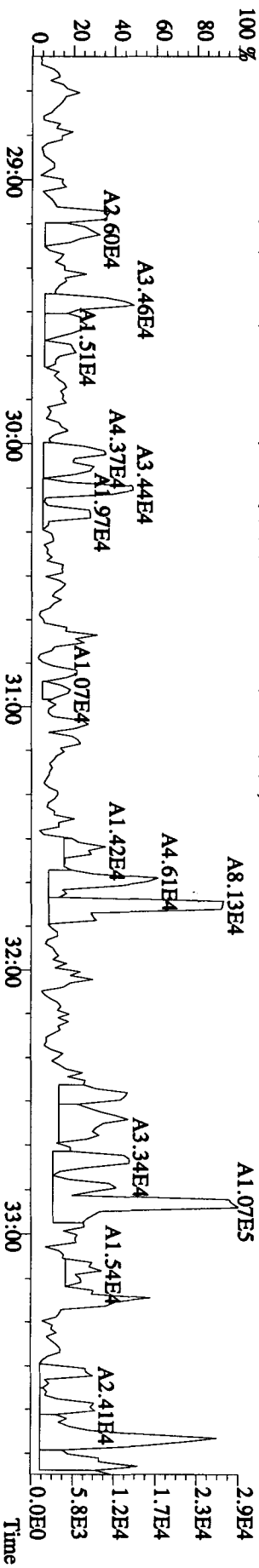
391.8127 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12976.0,1.00%,F,T)



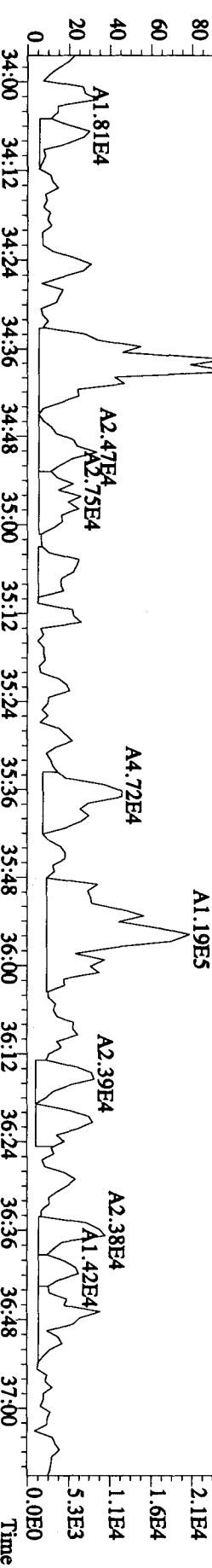
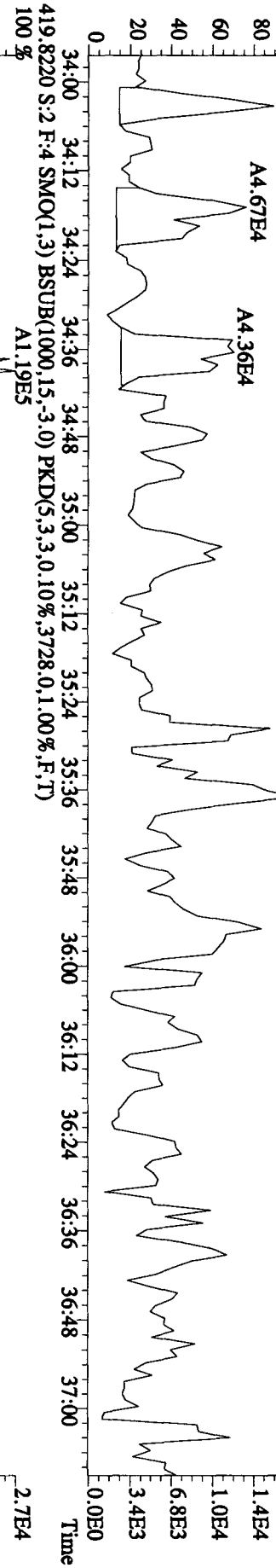
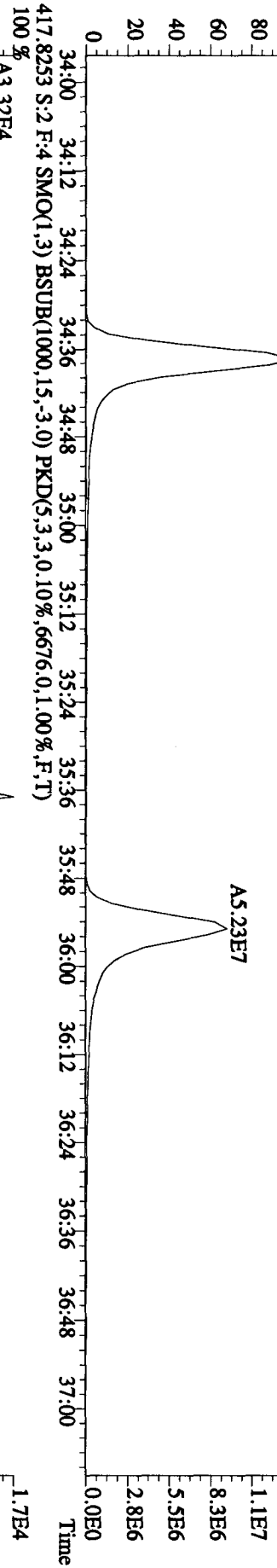
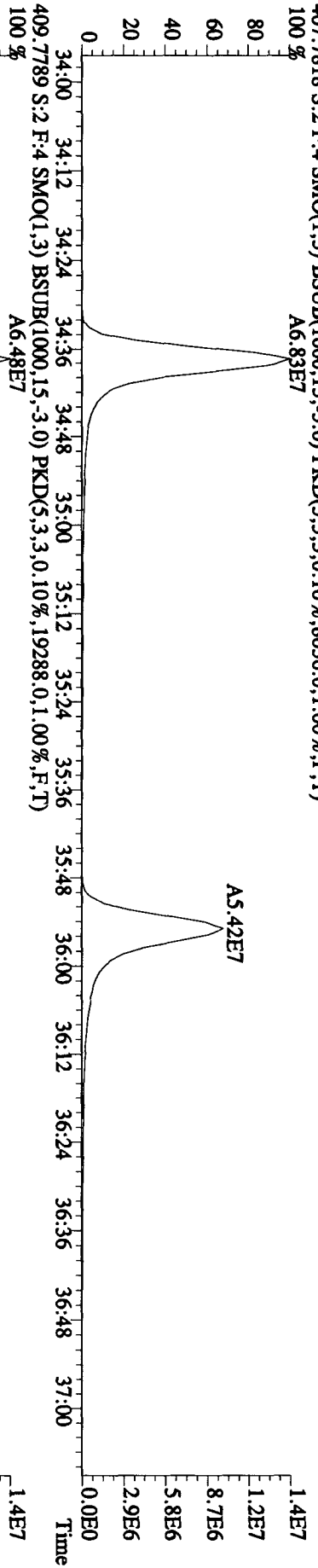
401.8559 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3704.0,1.00%,F,T)



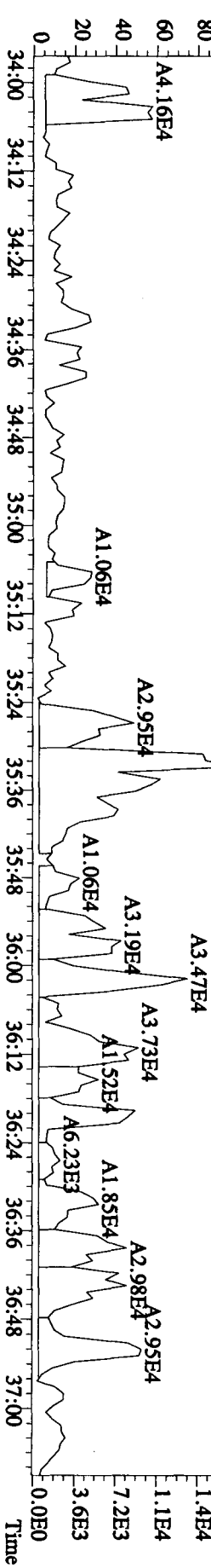
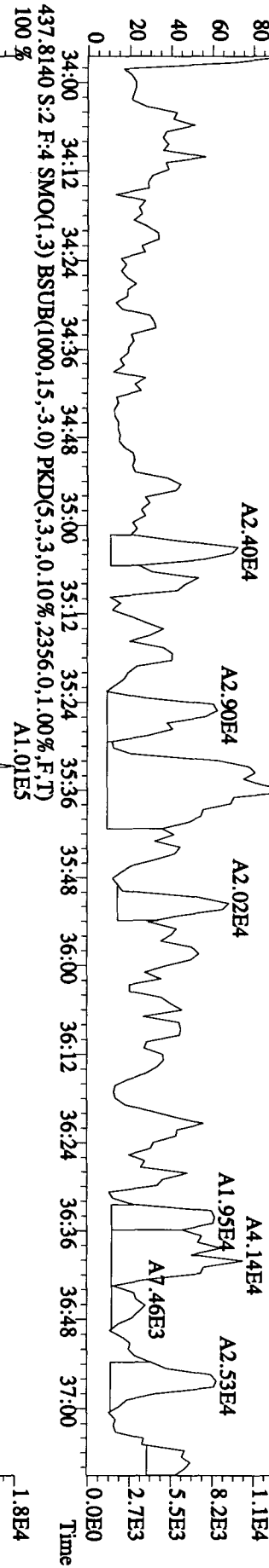
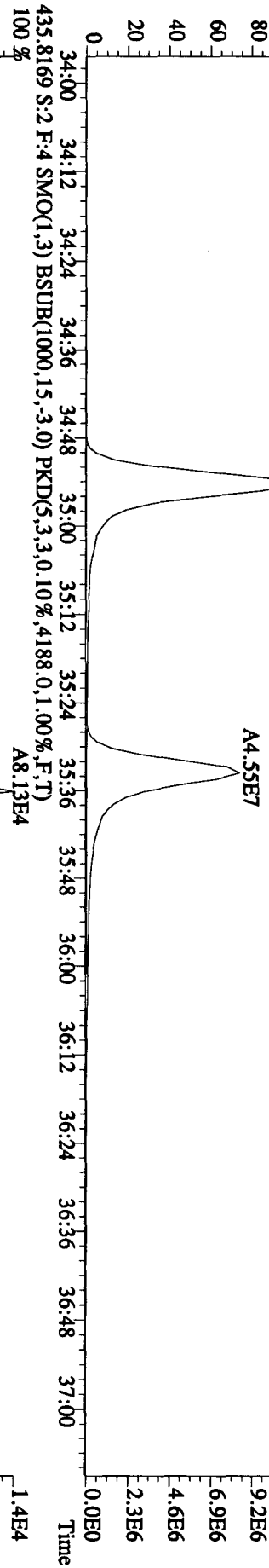
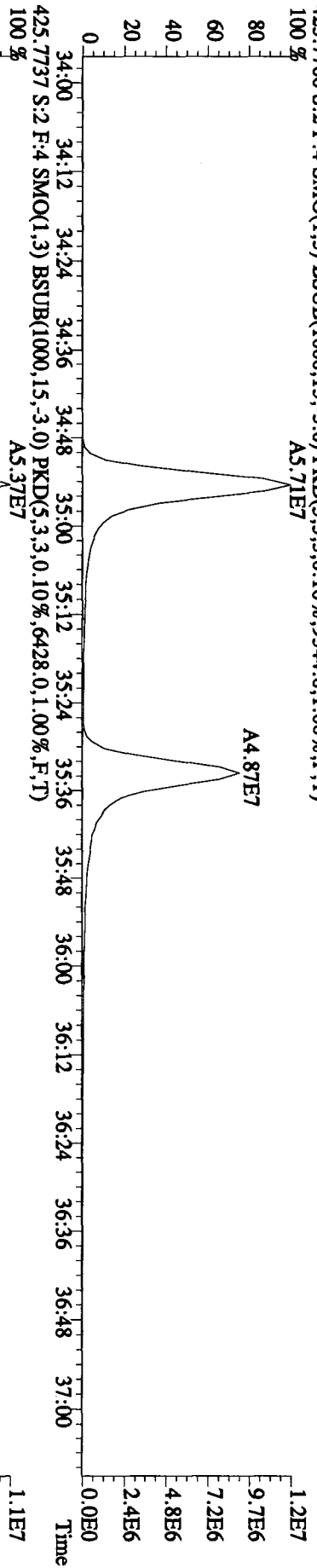
403.8529 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4400.0,1.00%,F,T)



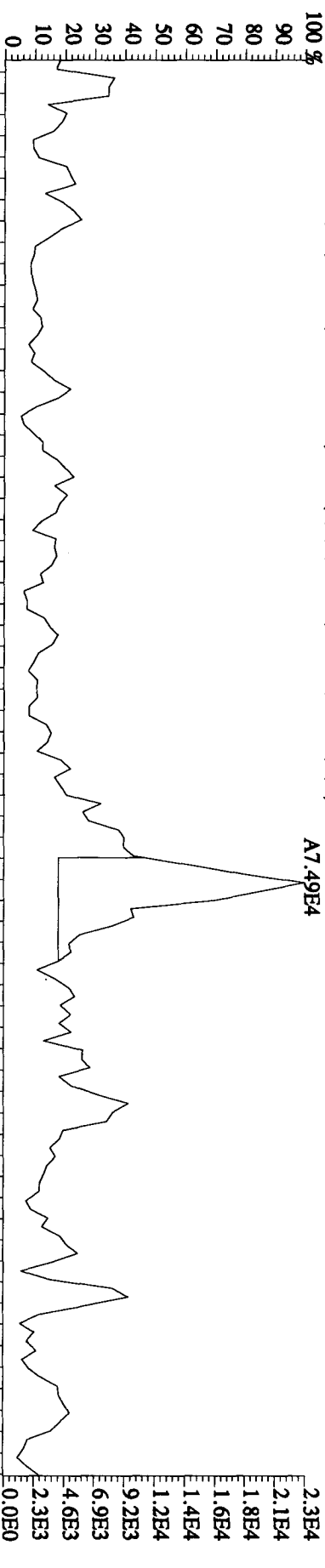
File:041A10A1D5 #1-227 Acq: 4-JAN-2010 15:04:34 GC EI + Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8036,0.1,00%,F,T)
 100%



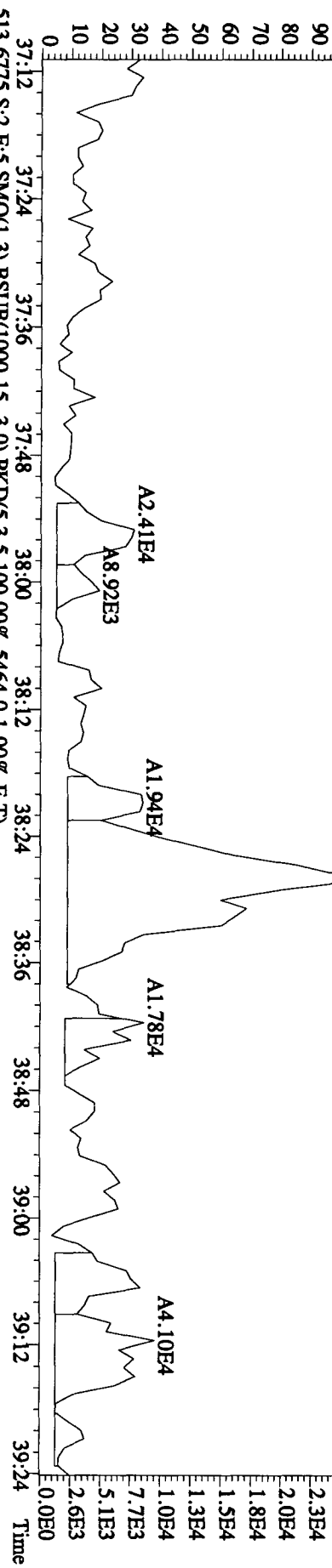
File:041A10A1D5 #1-227 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9344,0.1,00%,F,T)
 100%



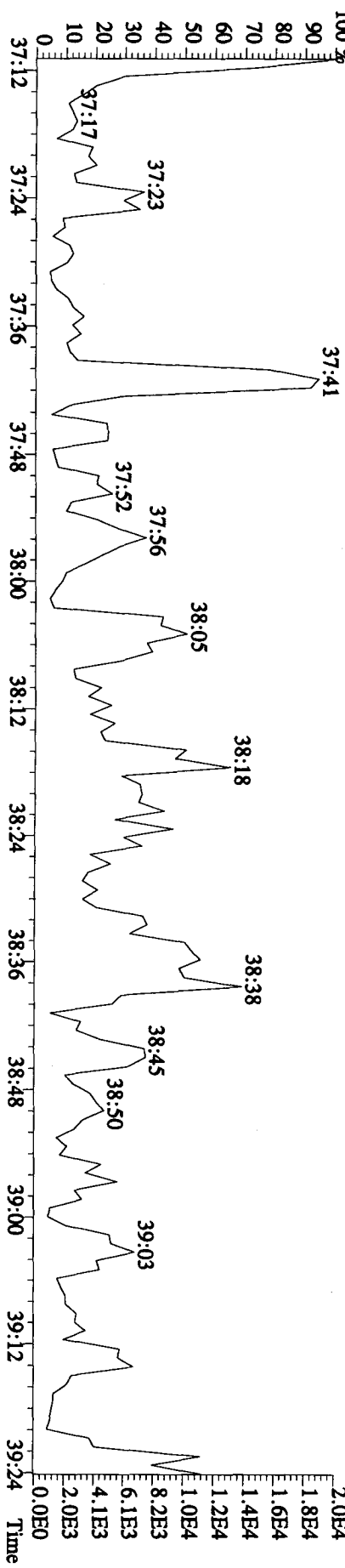
File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4164,0.1,00%,F,T)



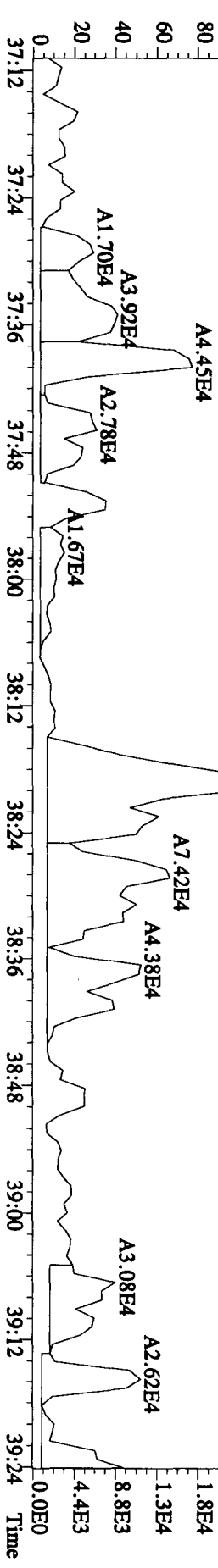
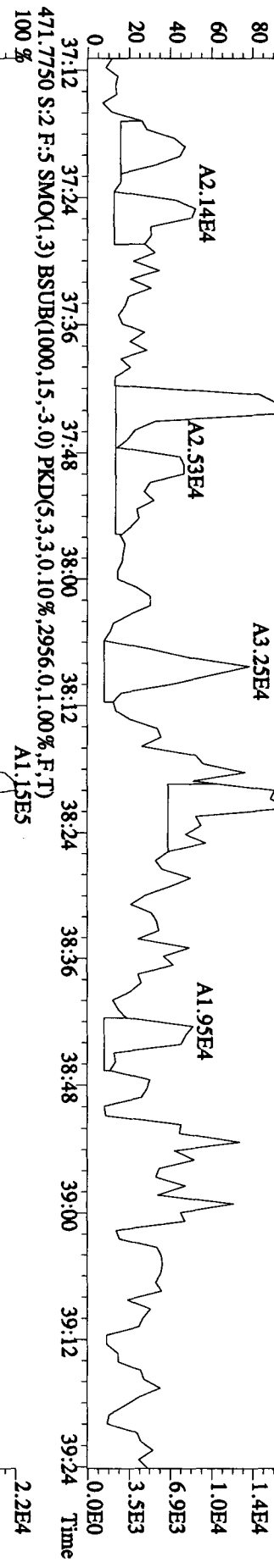
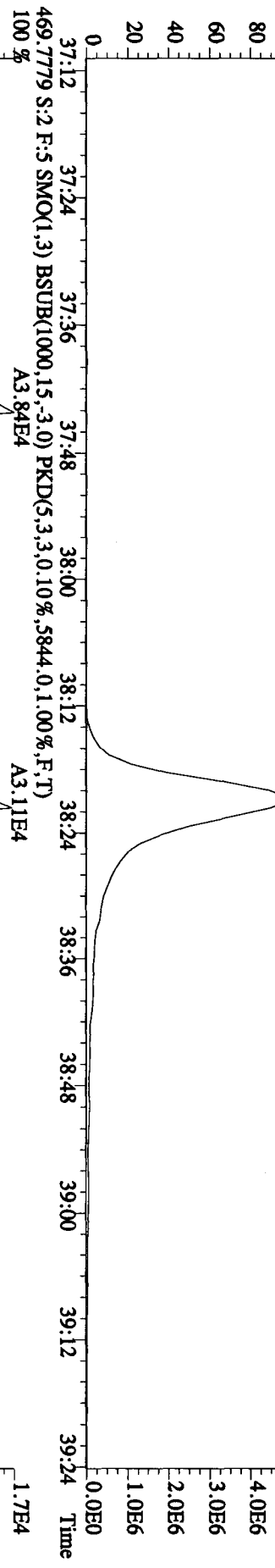
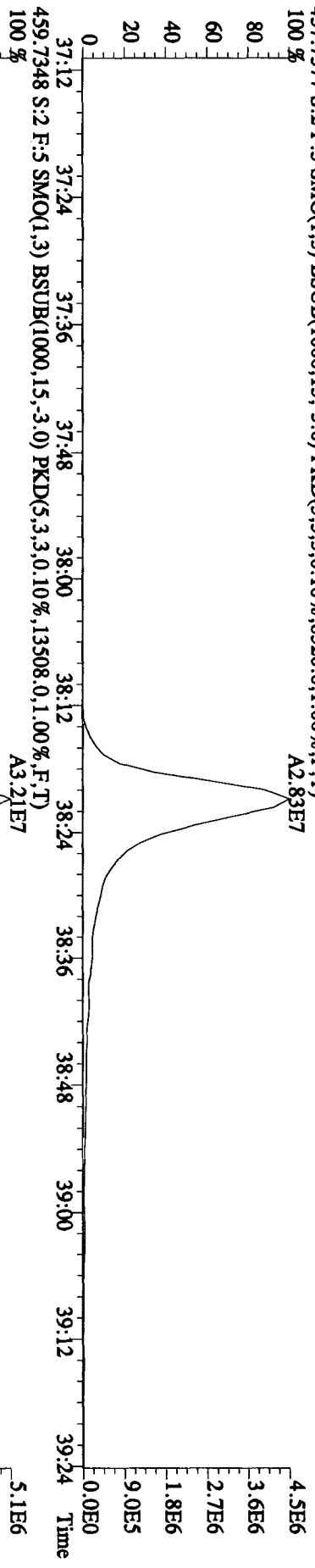
443.7399 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3848,0.1,00%,F,T)



513.6775 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,5,100.00%,5464,0.1,00%,F,T)



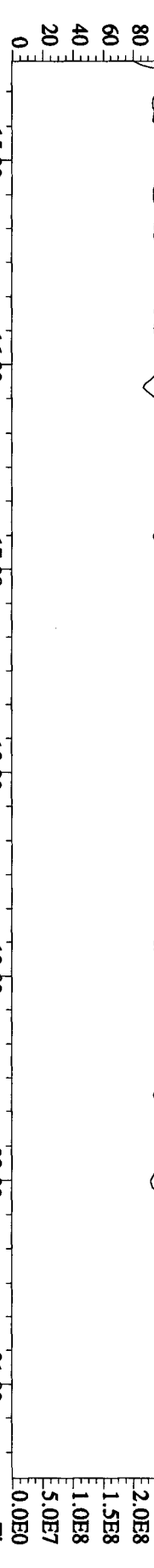
File:041A10A1D5 #1-161 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8520,0.1,0.00%,F,T)
 100%



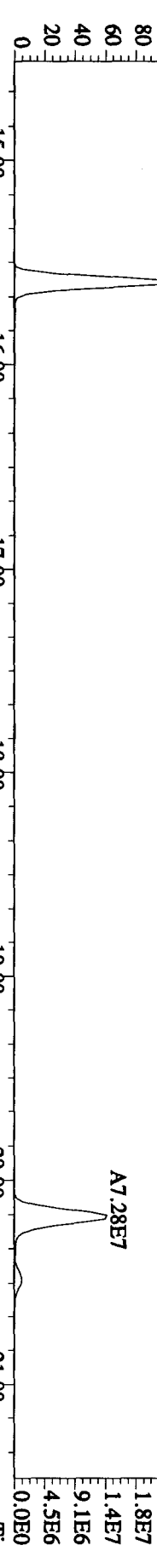
File:041A10A1D5 #1.411 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE

Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN

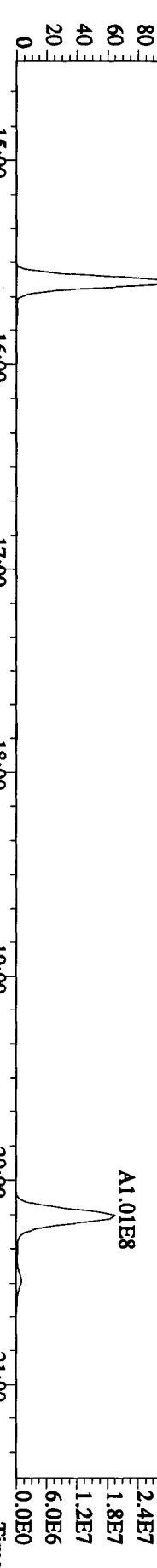
292.9825 S:2 SMO(1.3) PKD(5.3,5.100.00%,0.0,1.00%,F,T)



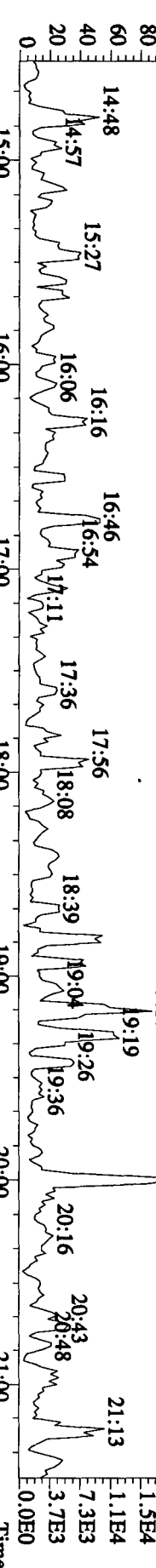
303.9016 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,7852.0,1.00%,F,T)



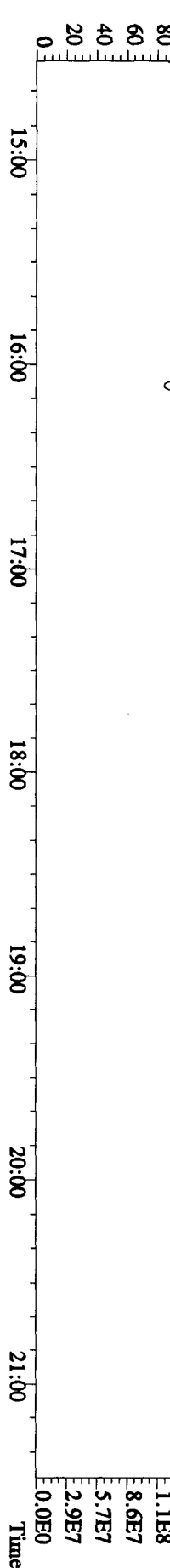
305.8987 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,10752.0,1.00%,F,T)

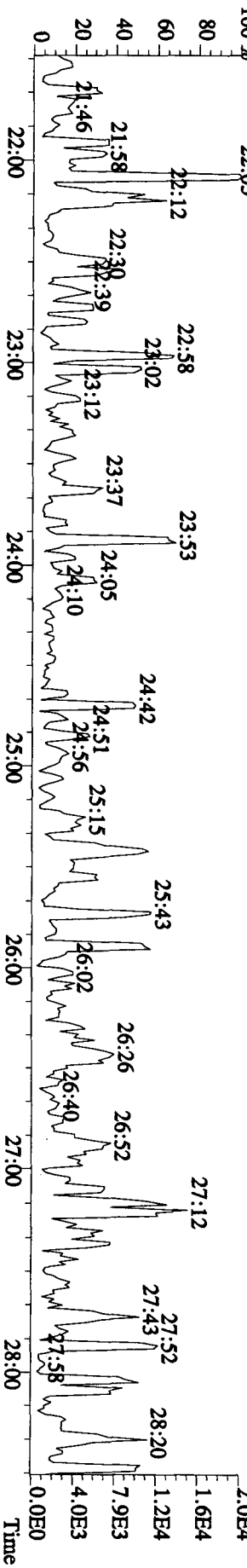
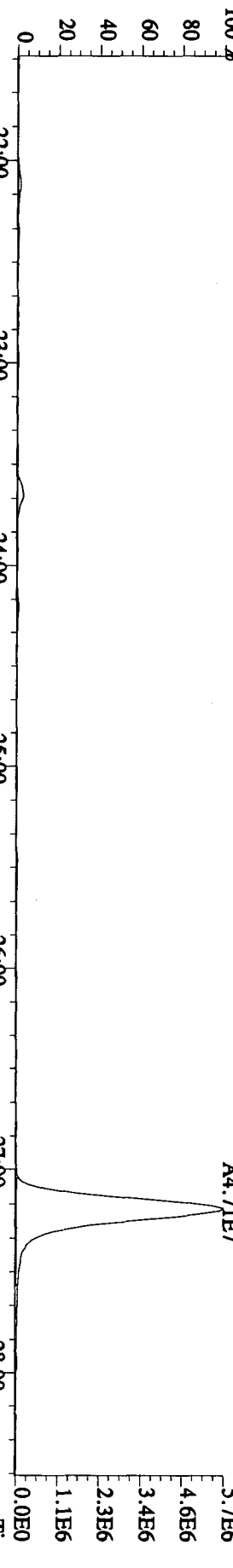
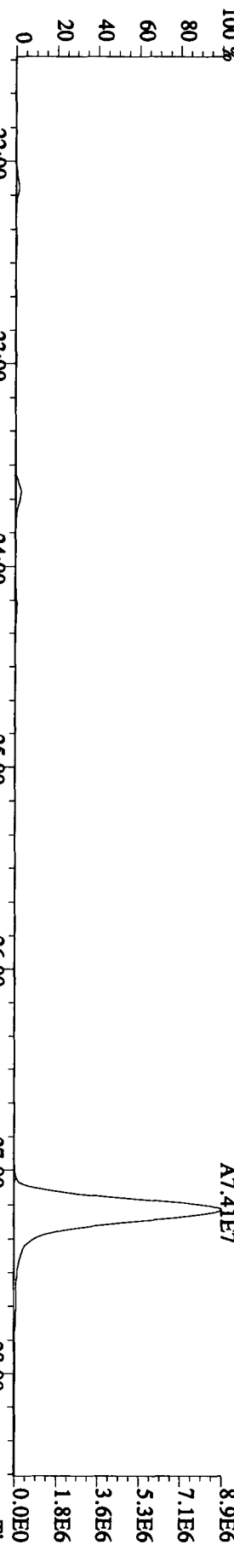
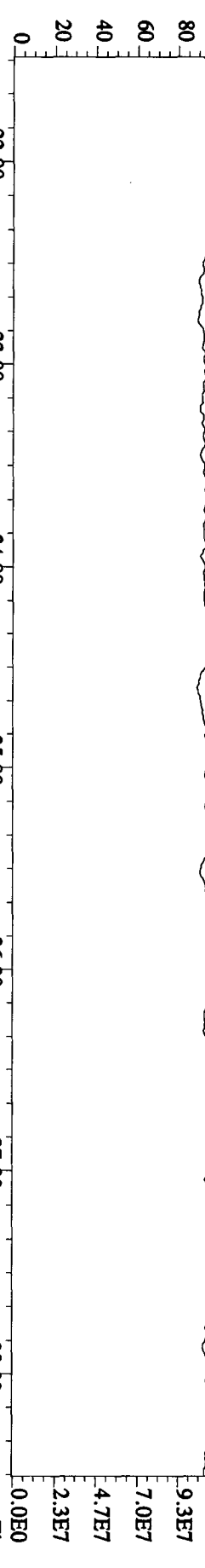


375.8364 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.100.00%,3044.0,1.00%,F,T)

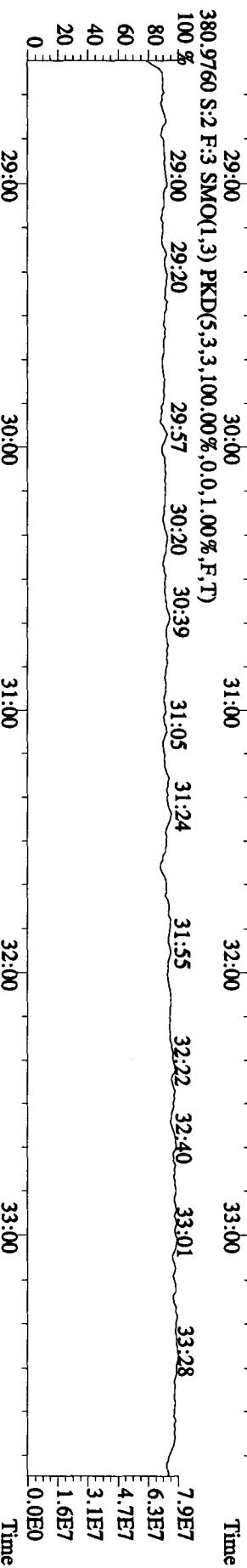
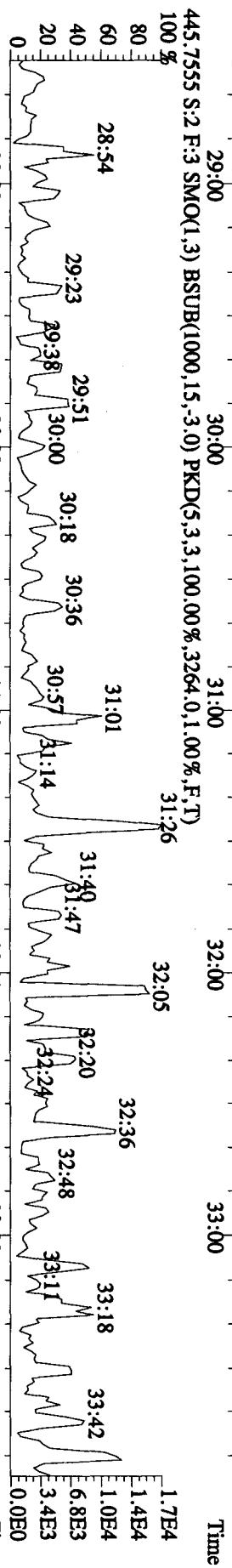
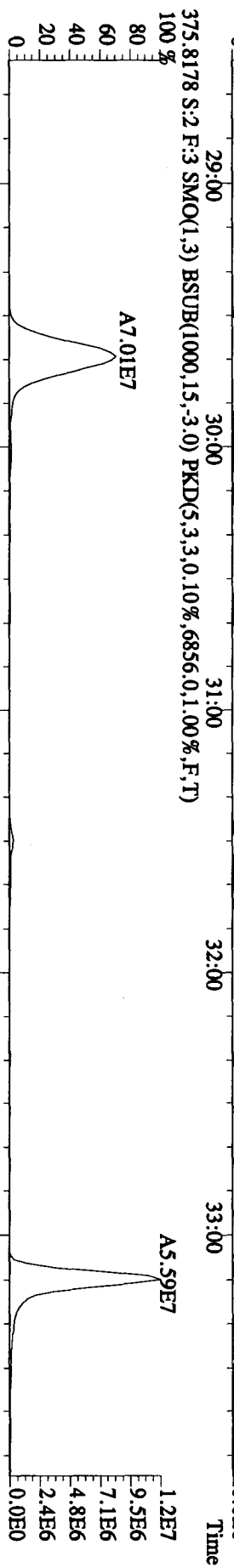
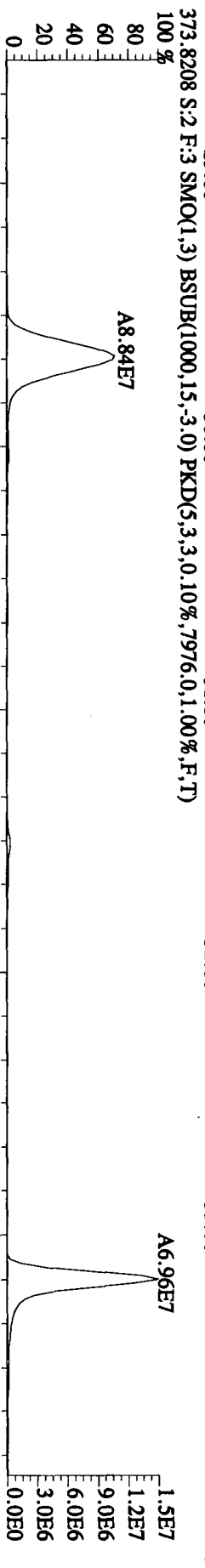
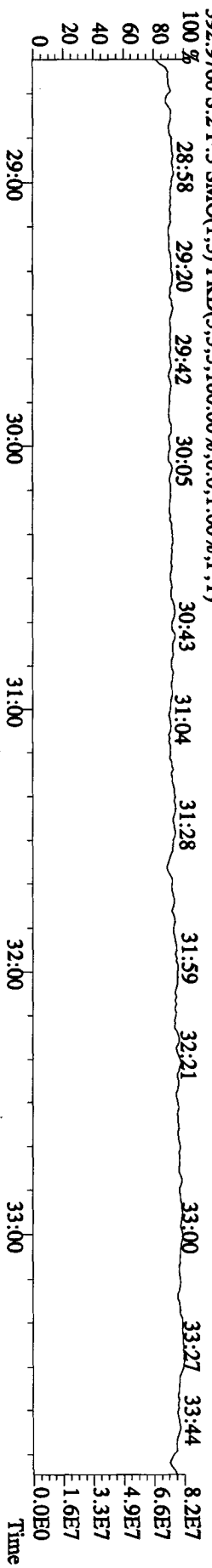


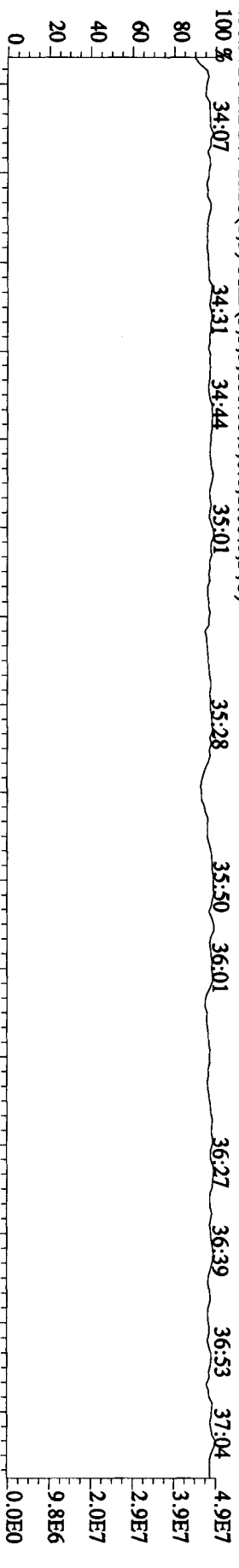
330.9792 S:2 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)



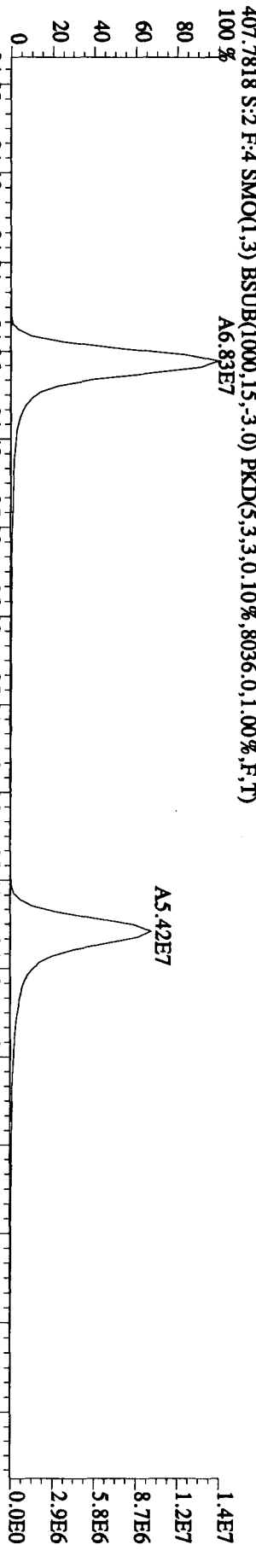


File:041A10A1D5 #1-362 Acq: 4-JAN-2010 15:04:34 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 392.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 28:58 29:20 29:42 30:05 30:43 31:04 31:28 31:59 32:21 33:00 33:27 33:44 8.2E7

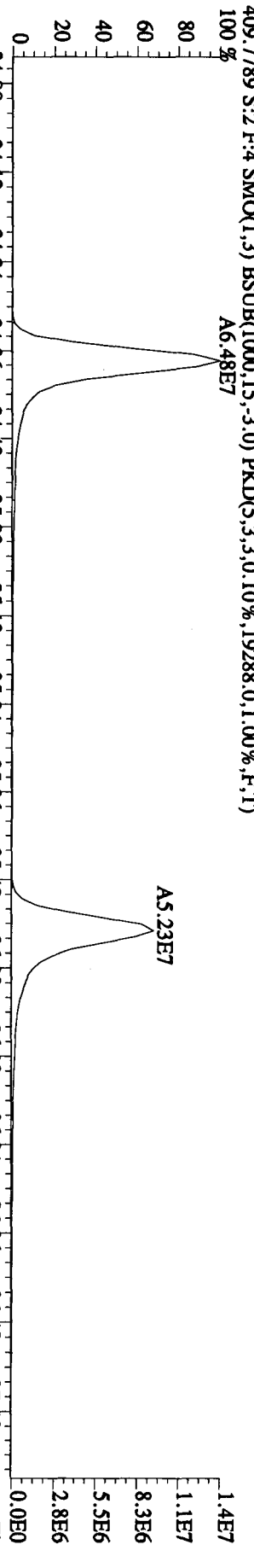




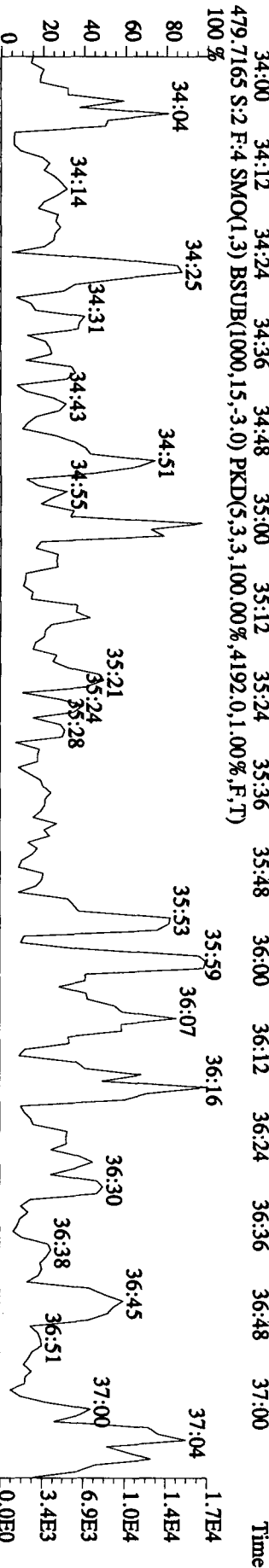
407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8036,0,1,00%,F,T)



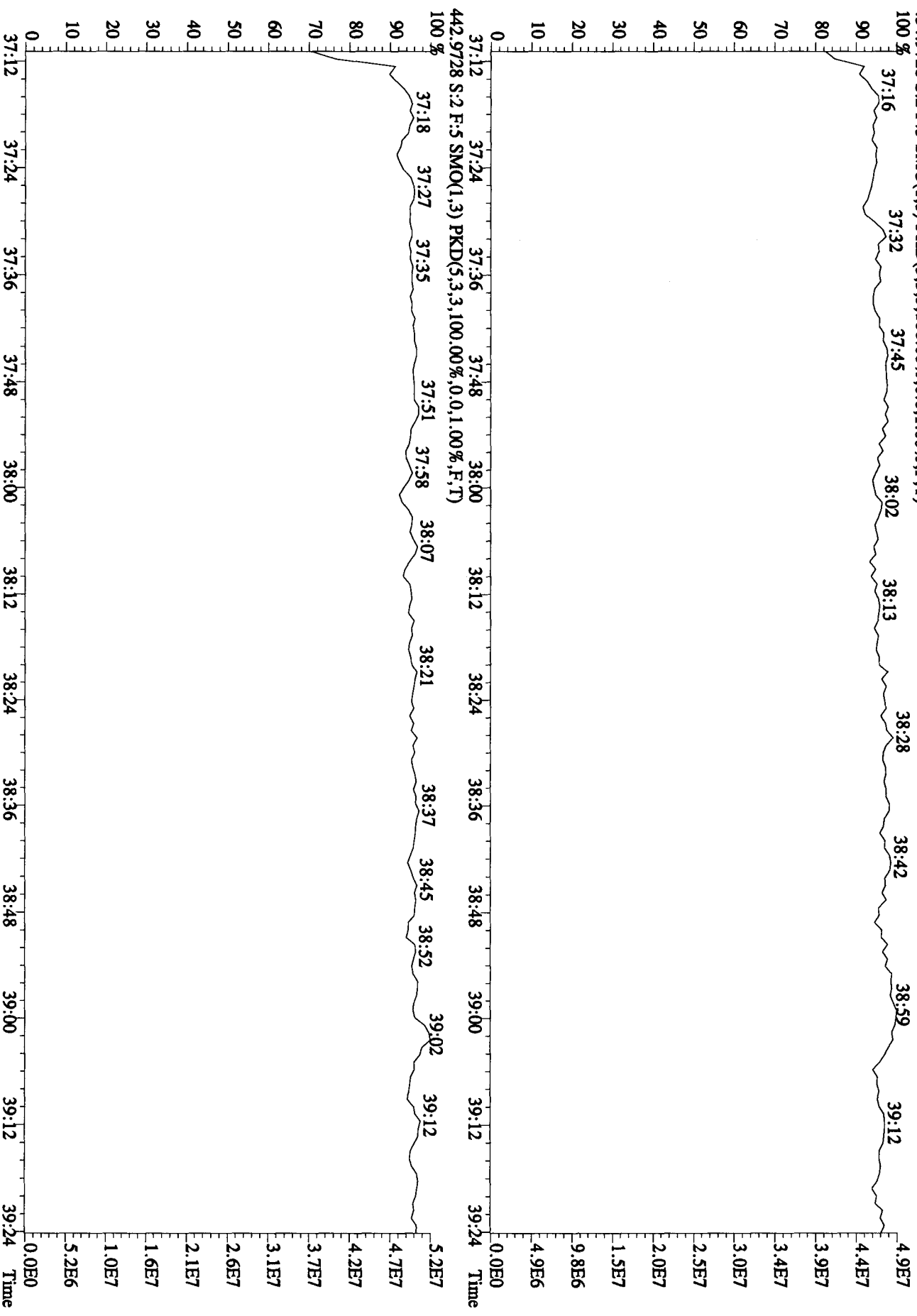
409.7789 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,19288,0,1,00%,F,T)



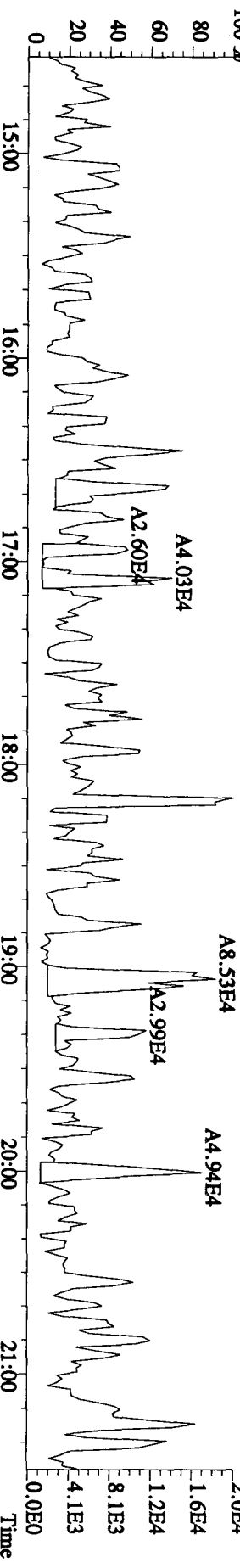
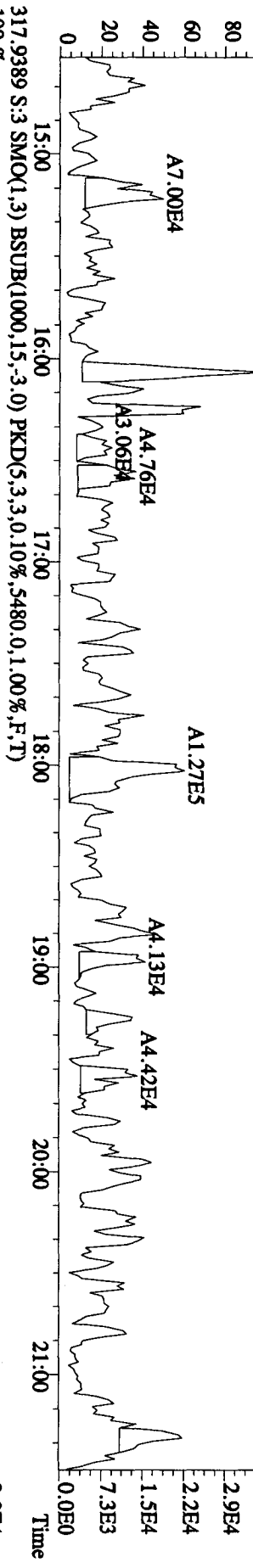
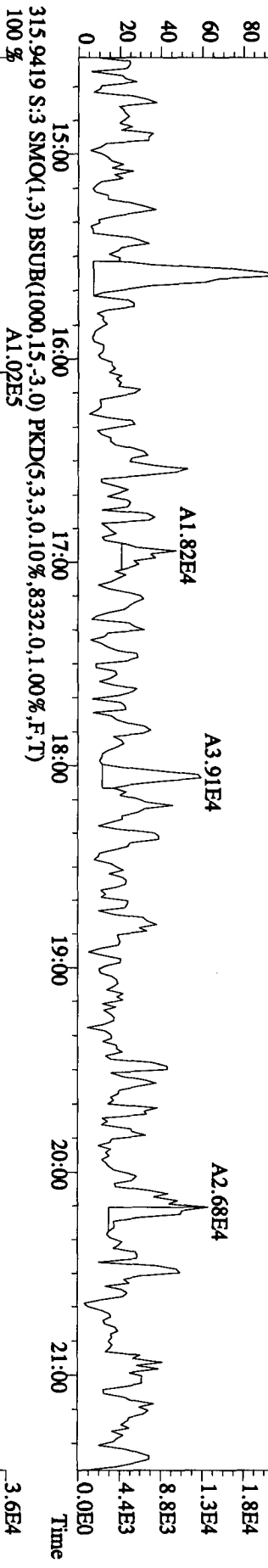
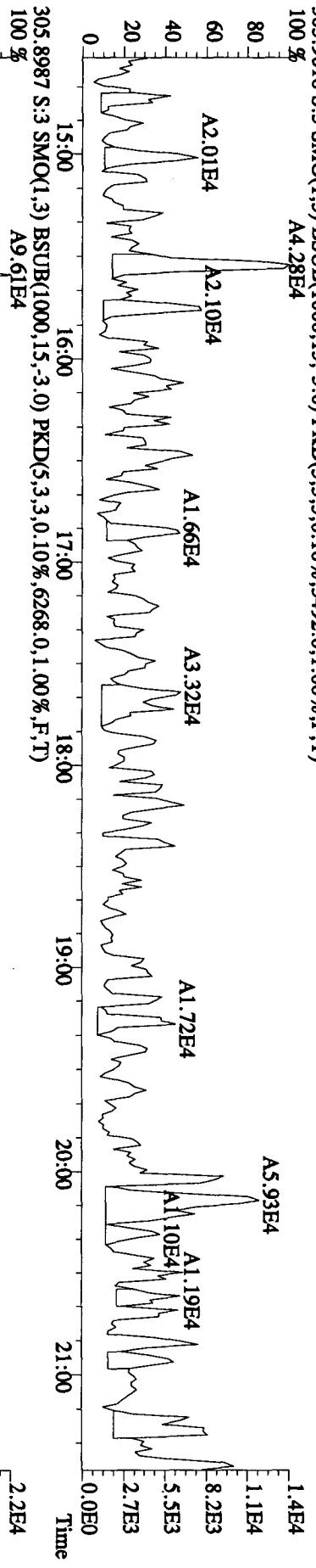
479.7165 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,4192,0,1,00%,F,T)



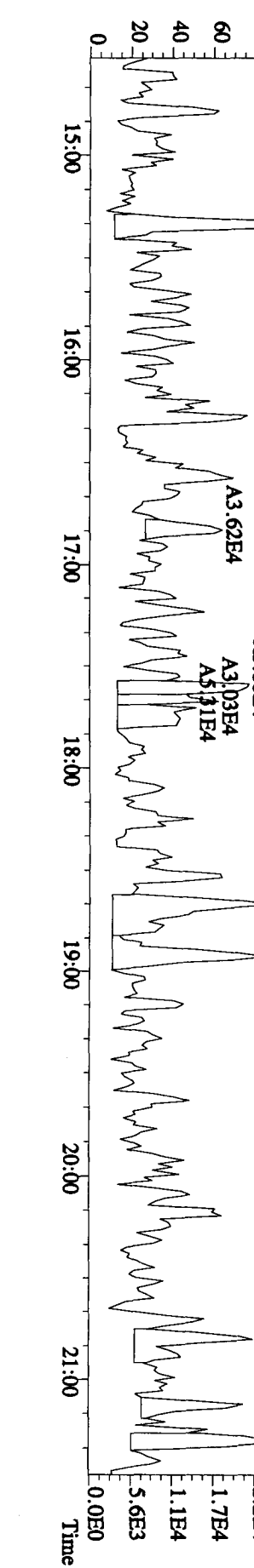
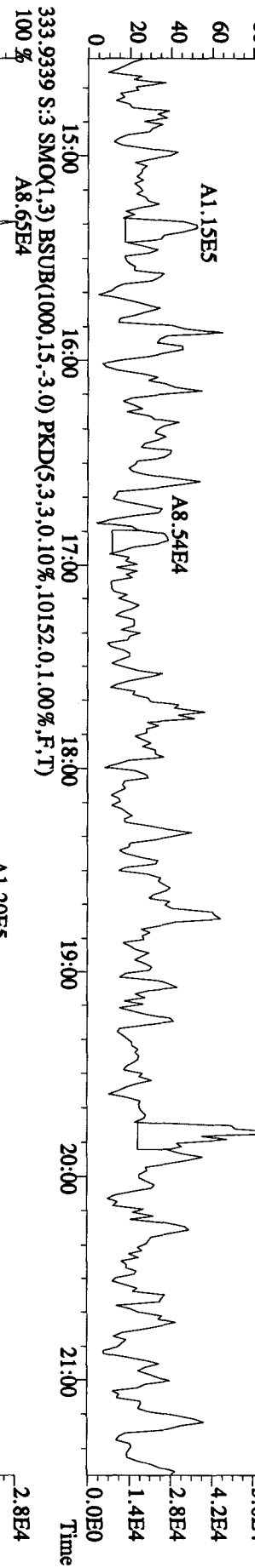
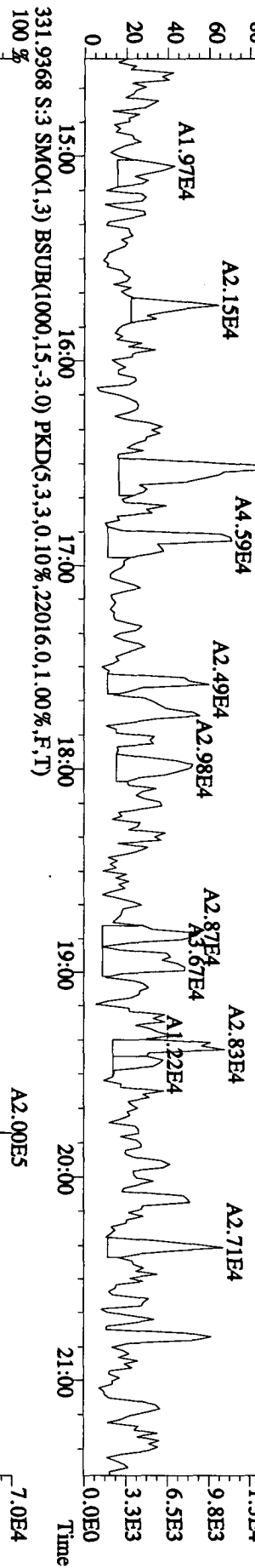
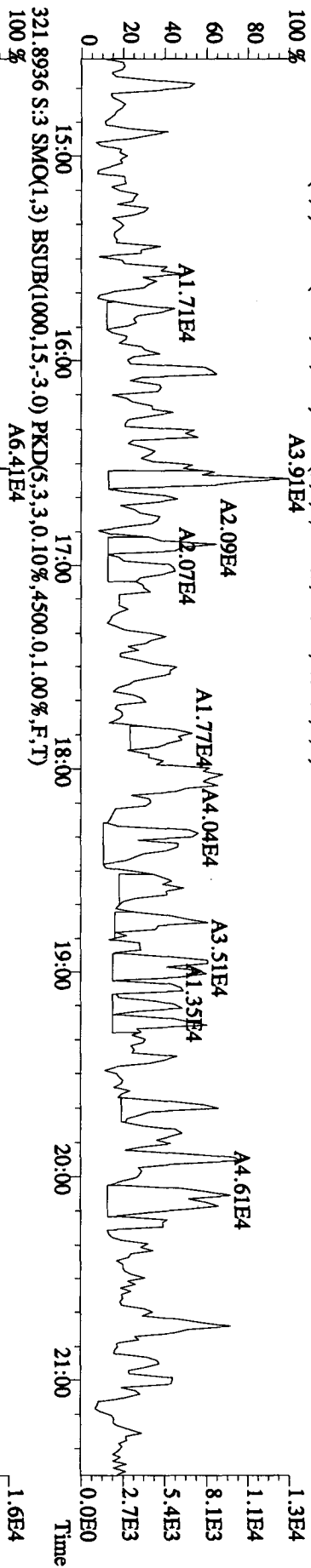
File:04JAN10A1D5 #1-161 Acq: 4-JAN-2010 15:04:34 GC EI + Voltage SIR 70SE
 Sample#2 Text:CP0104 :DB-5 CPSM 3732-04 Exp:DIOXIN
 454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



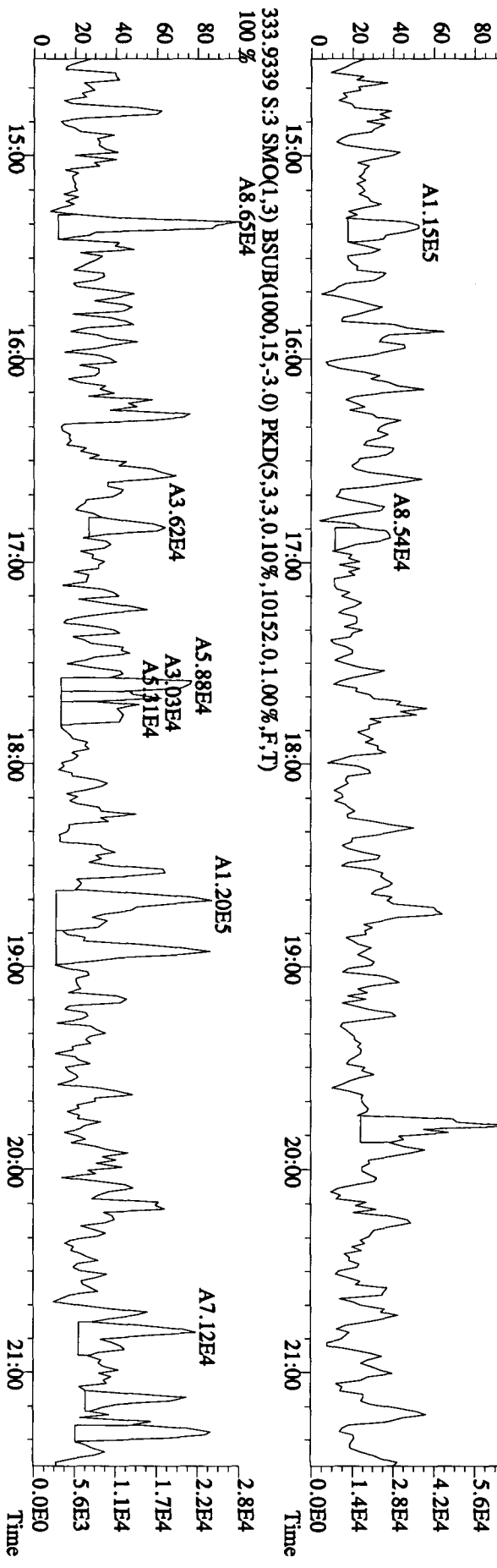
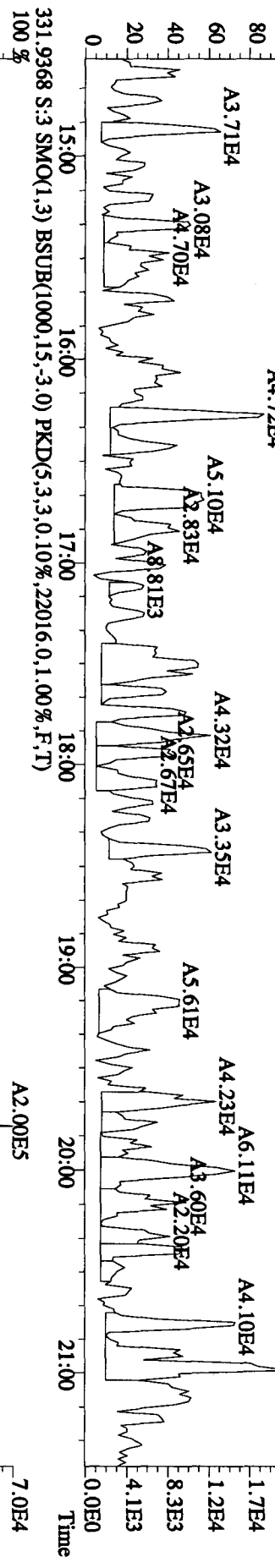
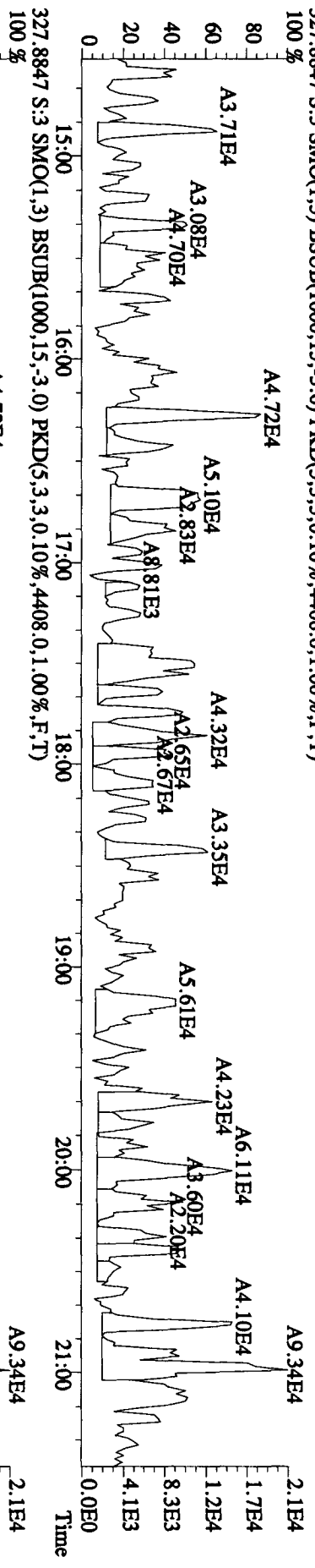
File:04JA10AID5 #1-411 Acq: 4-JAN-2010 15:46:23 GC EI + Voltage SIR 70SE
 Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3492,0,1,00%,F,T)
 100 %

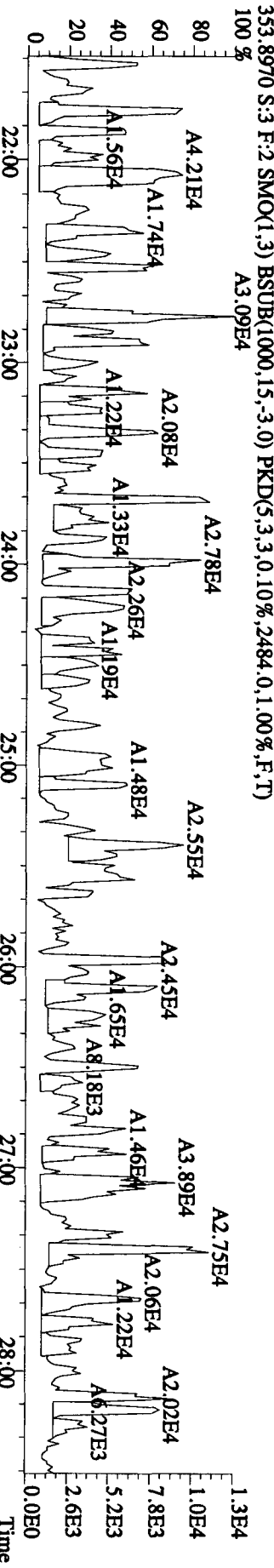
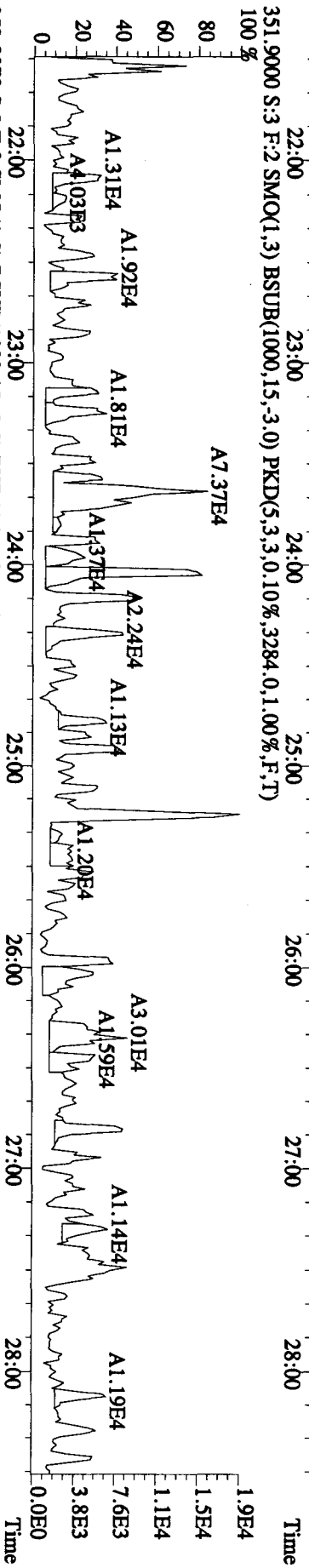
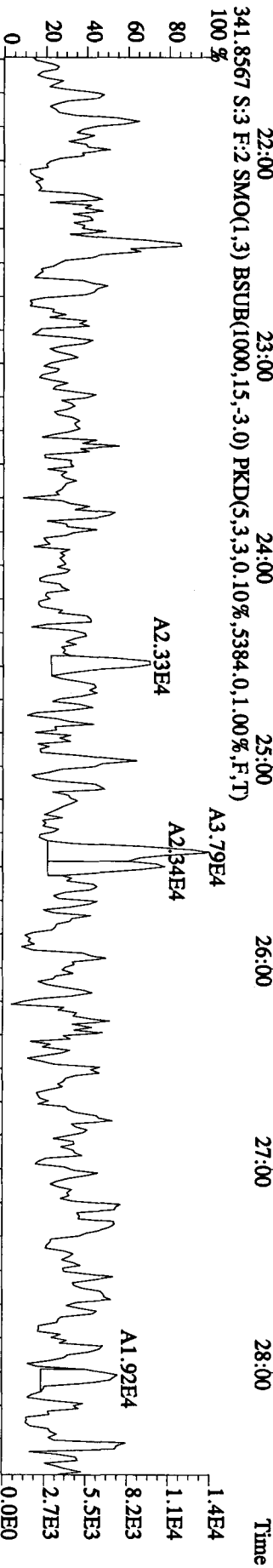
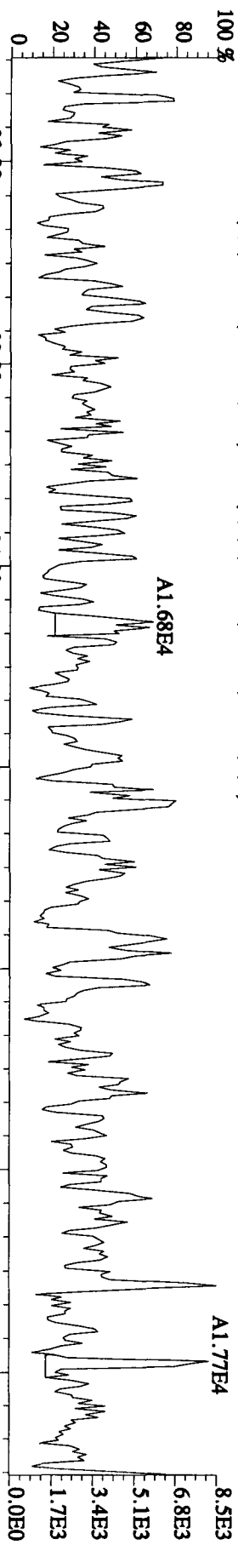


File:041A10A1D5 #1-411 Acq: 4-JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB0104 :Solvent Blank C-14 Exp: DIOXIN
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4104.0,1.00%,F,T)
 100% A3.91E4

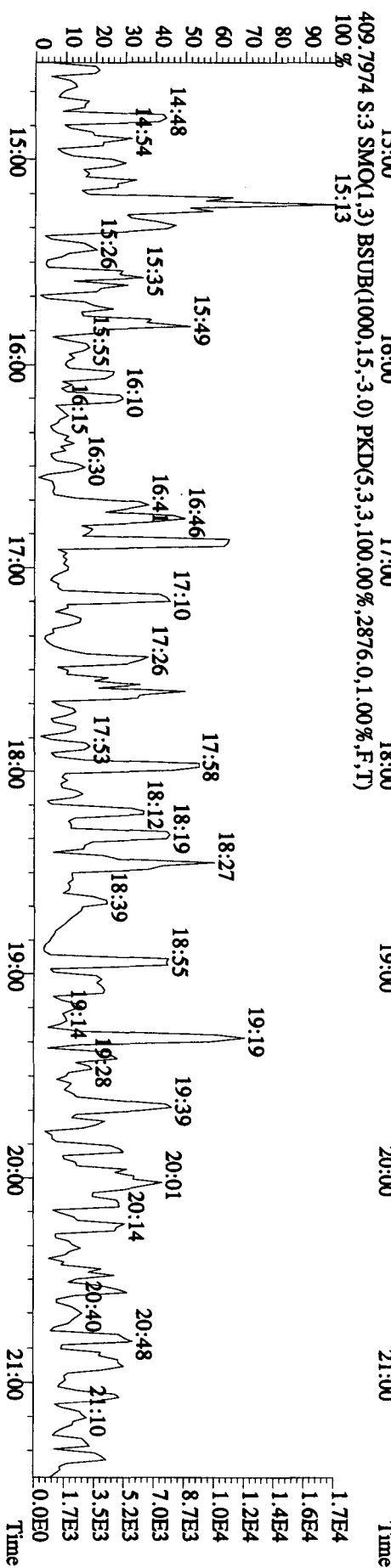
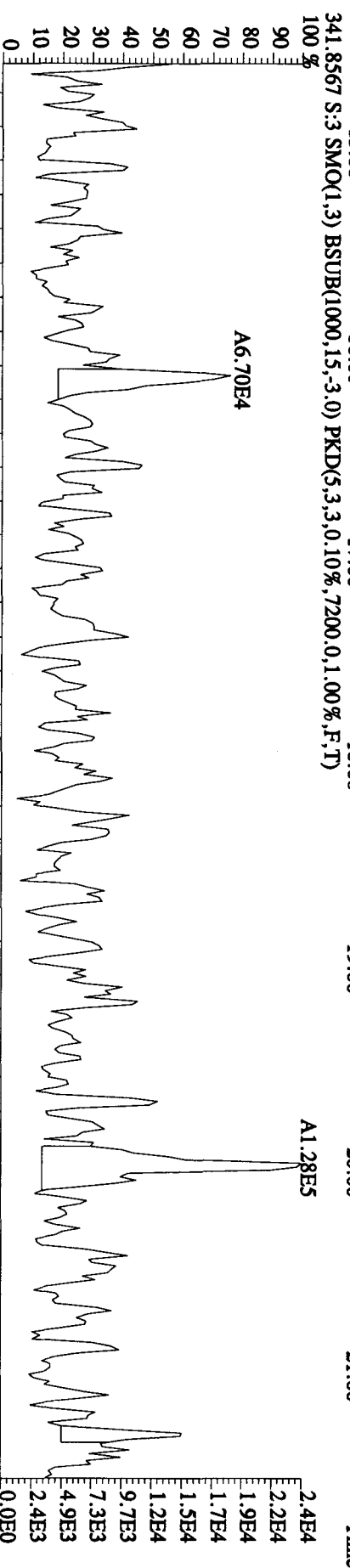
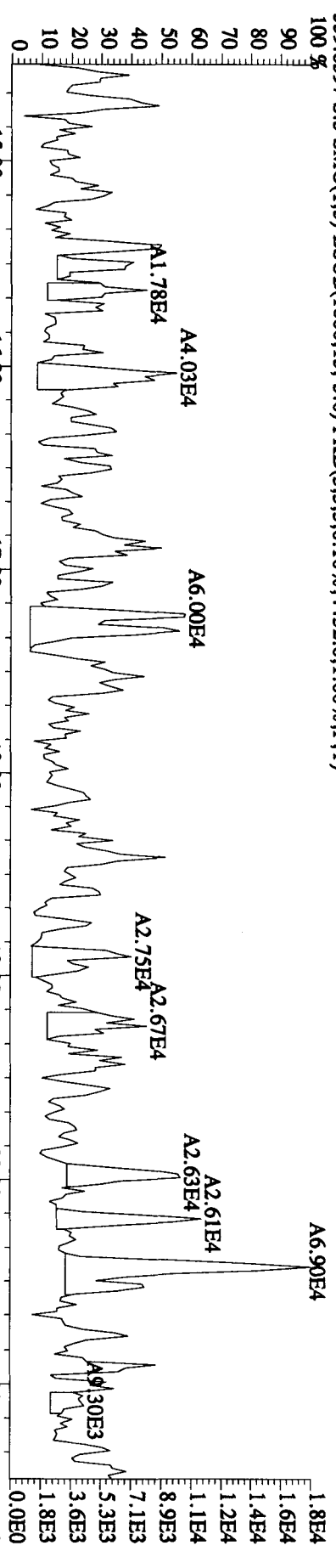


File:041A10A1D5 #1-411 Acq: 4-JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4408,0.1,00%,F,T)
 100%

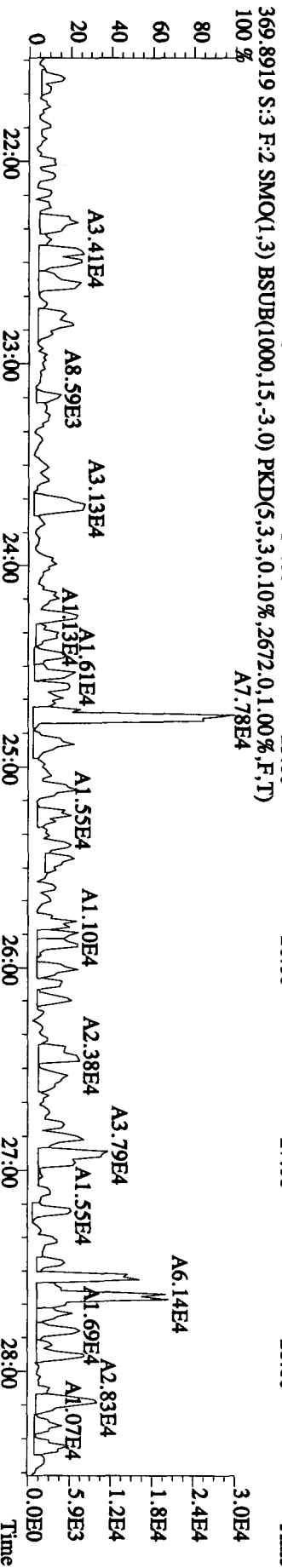
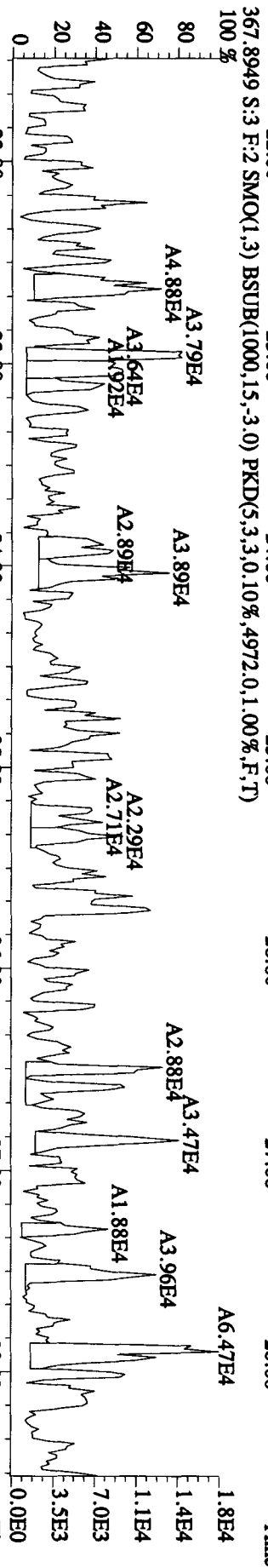
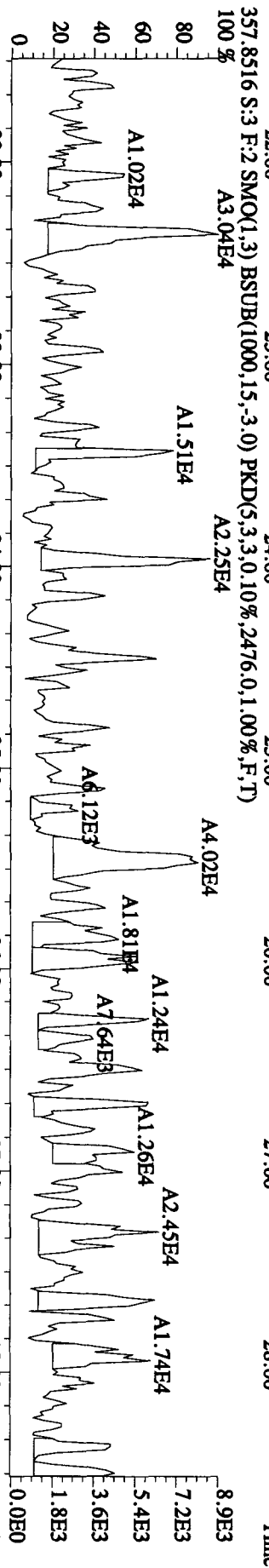
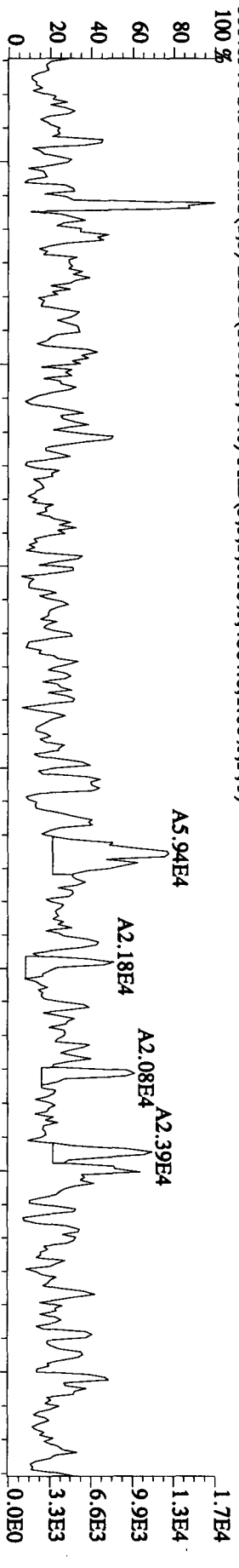




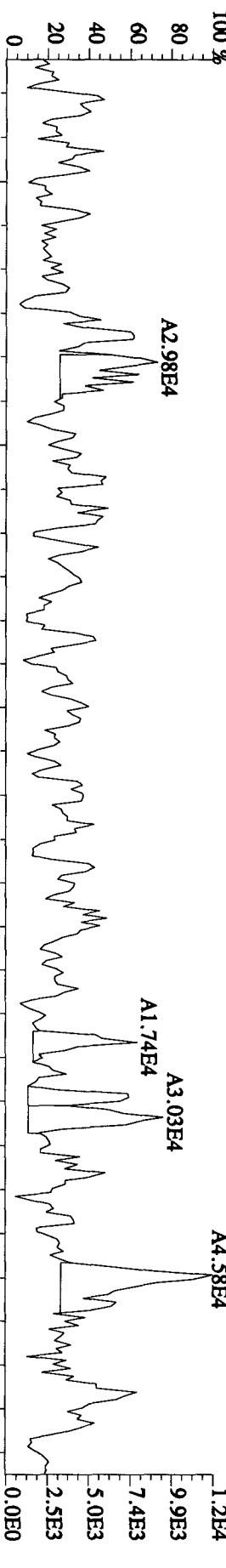
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN
 339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4452.0,1.00%,F,T)



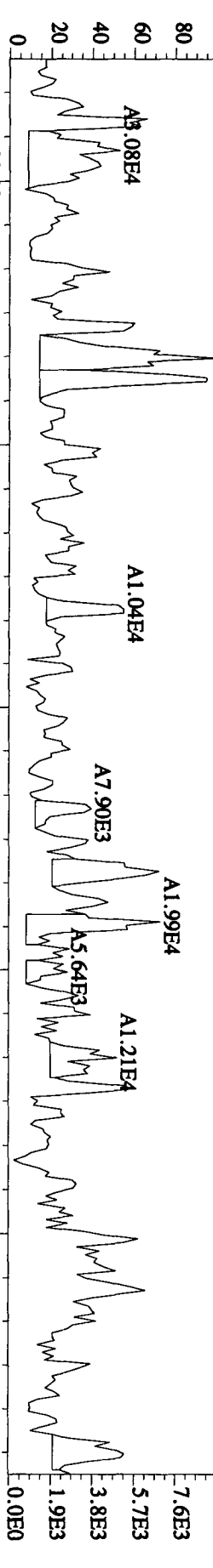
File:04JA10A1D5 #1-495 Acq: 4-JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4864,0.1,00%,F,T)
 100%



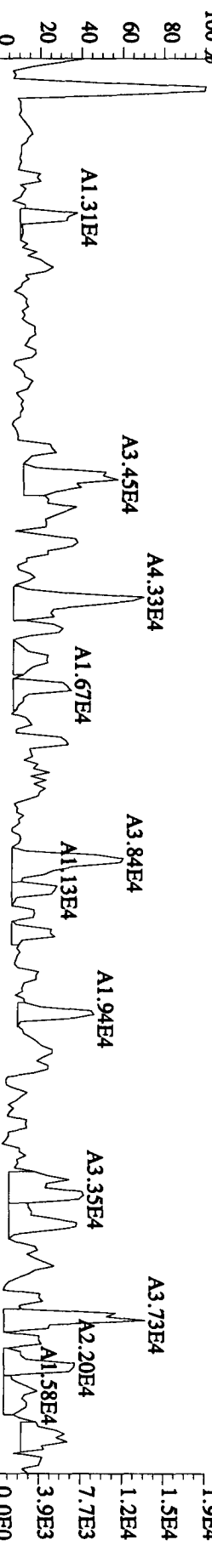
File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4108,0,1.00%,F,T)



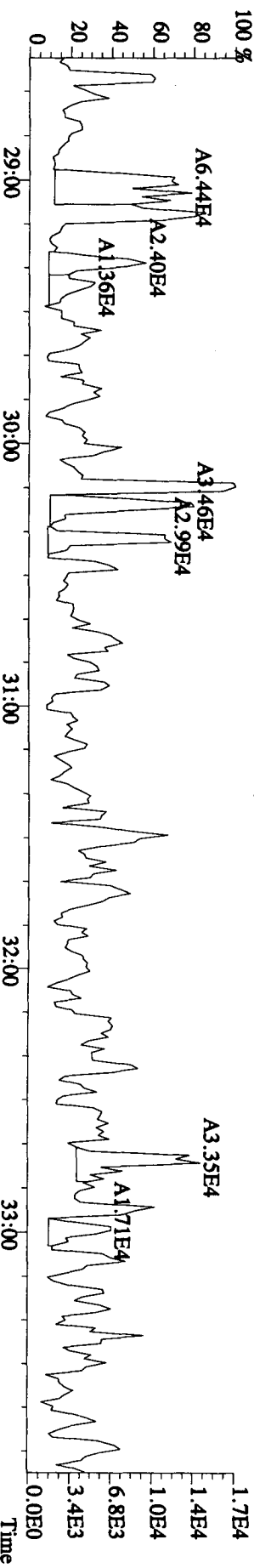
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2640,0,1.00%,F,T)



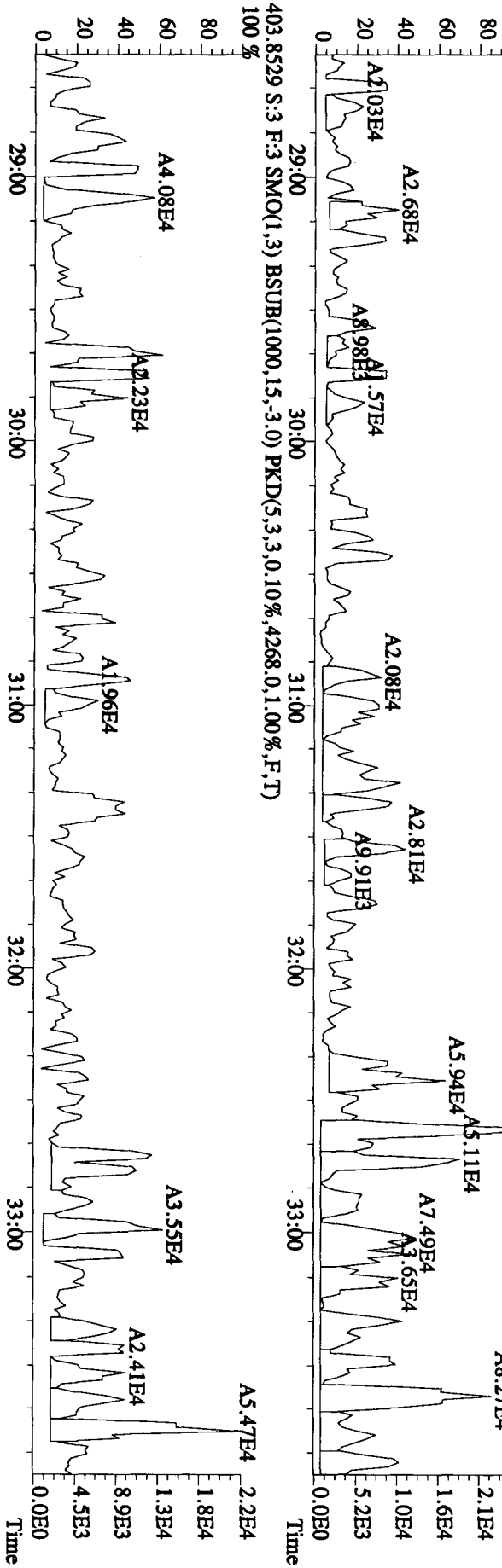
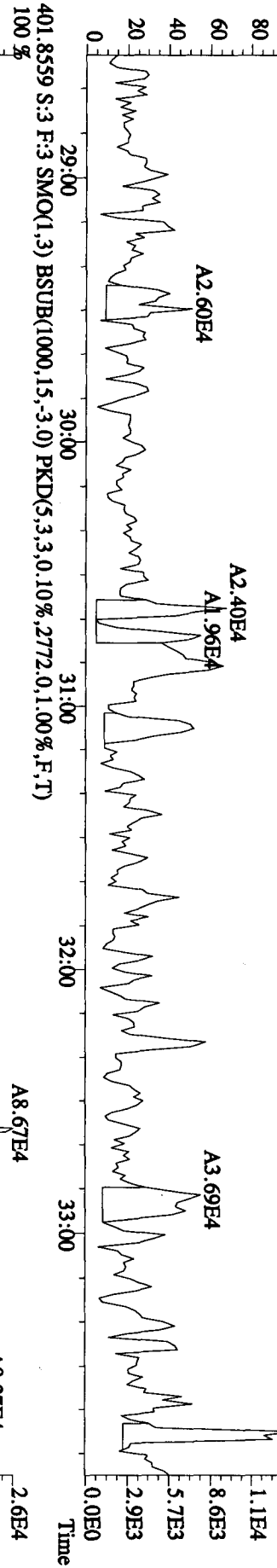
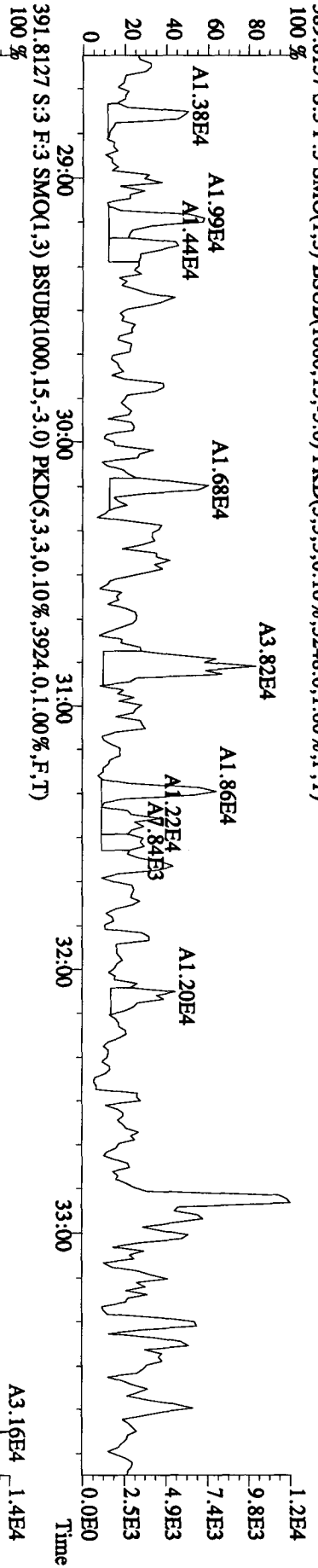
383.8639 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3244,0,1.00%,F,T)



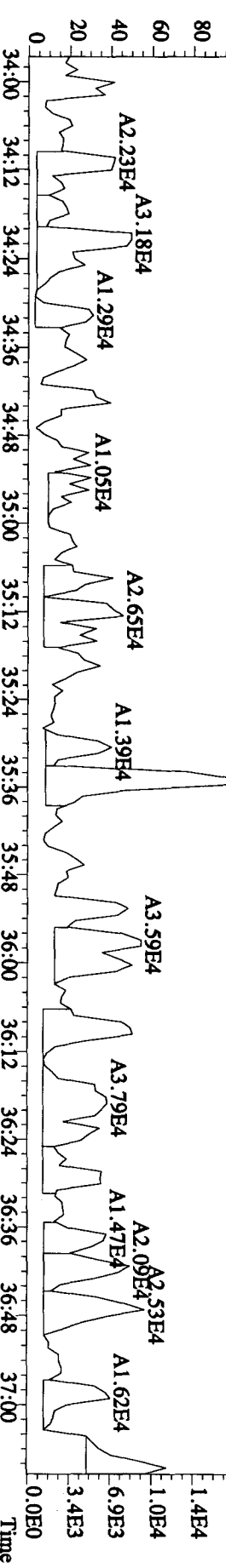
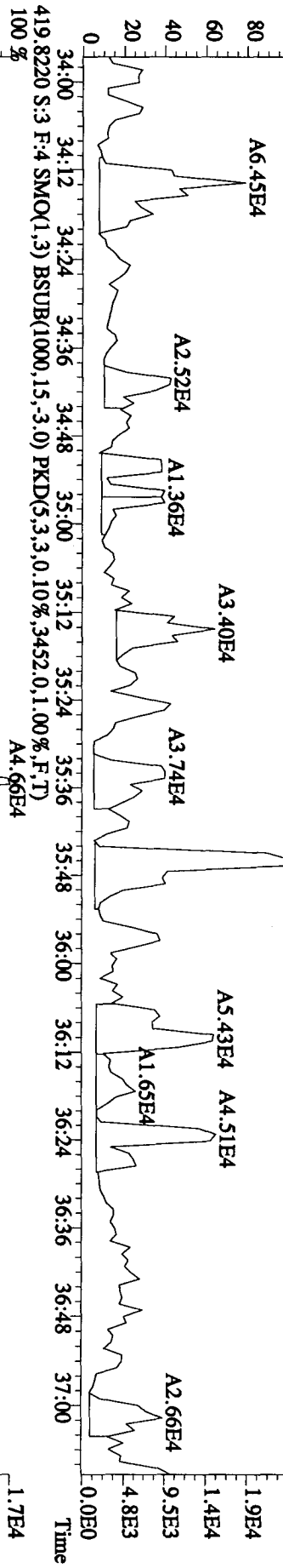
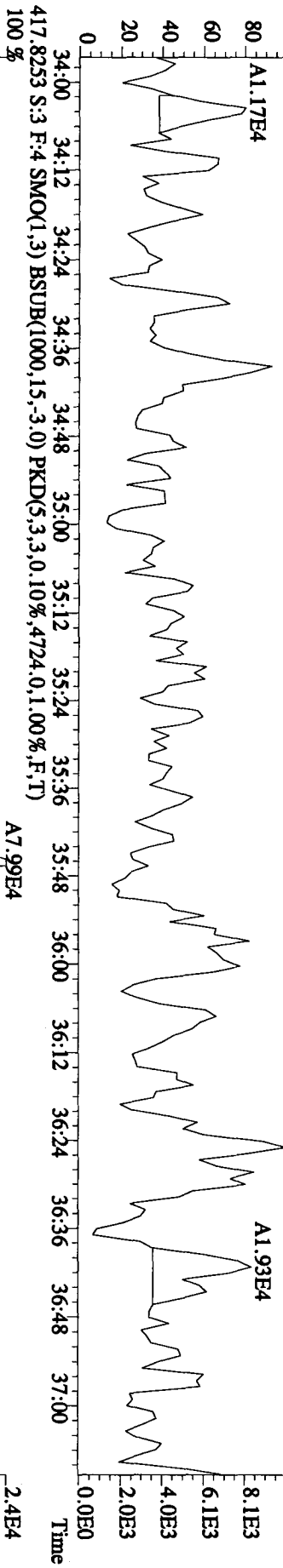
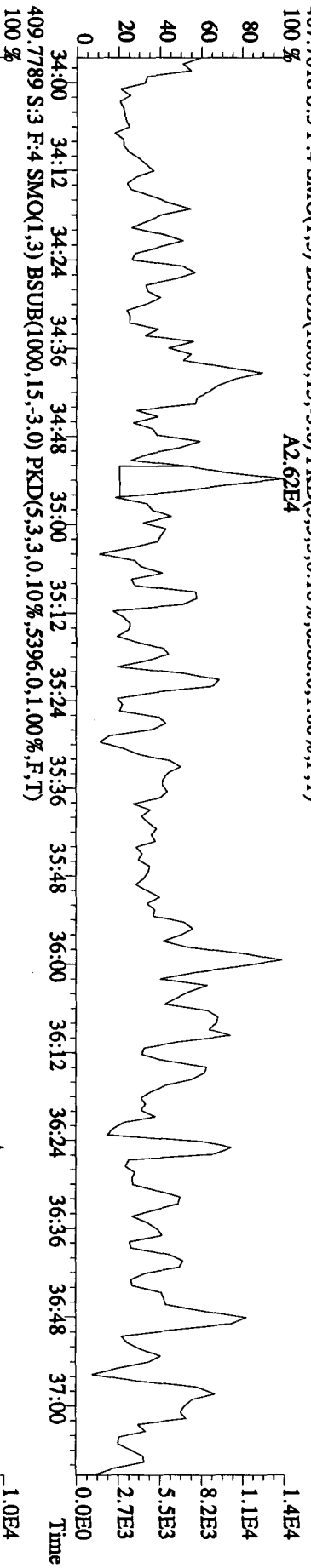
385.8610 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5732,0,1.00%,F,T)



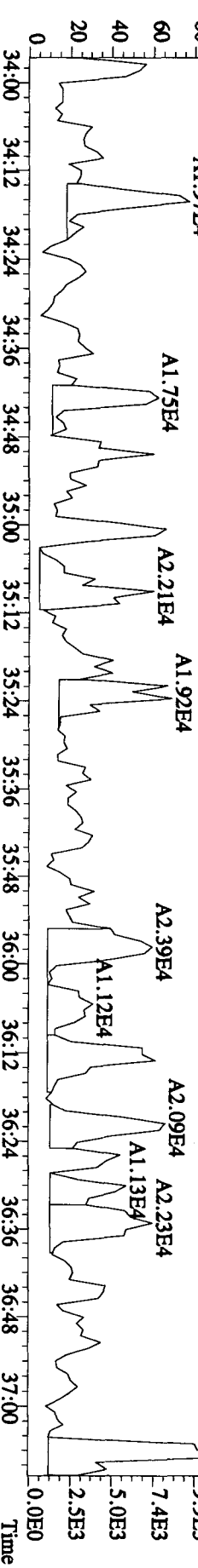
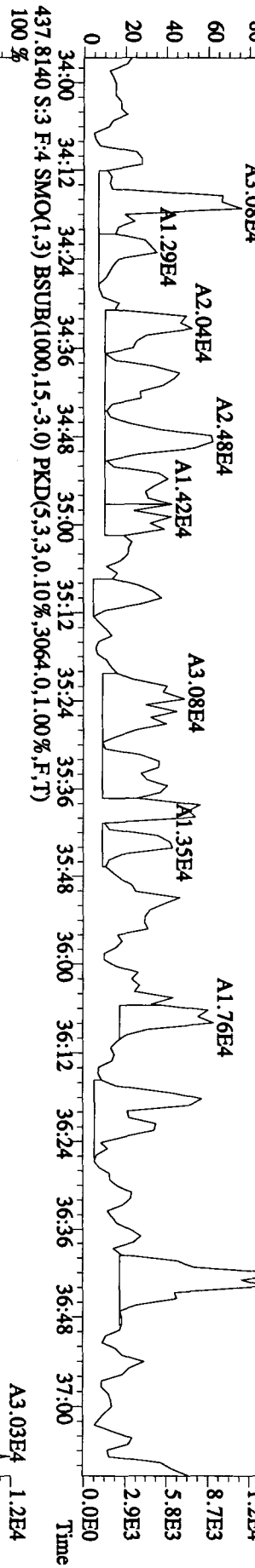
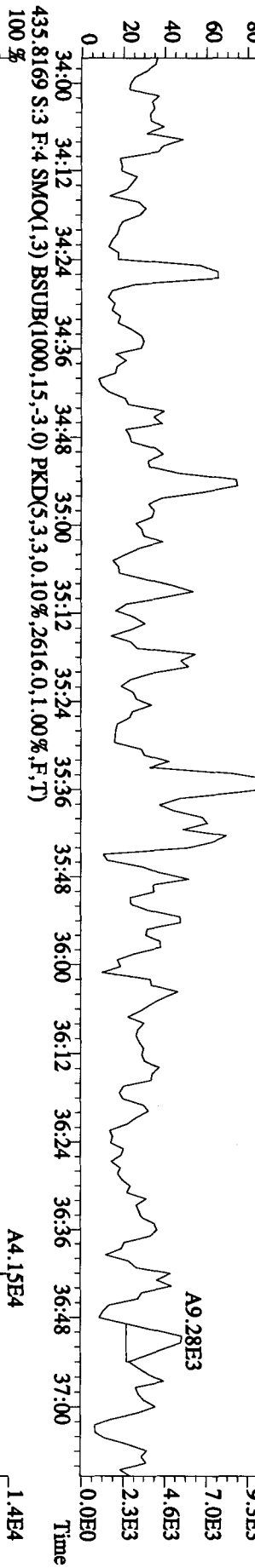
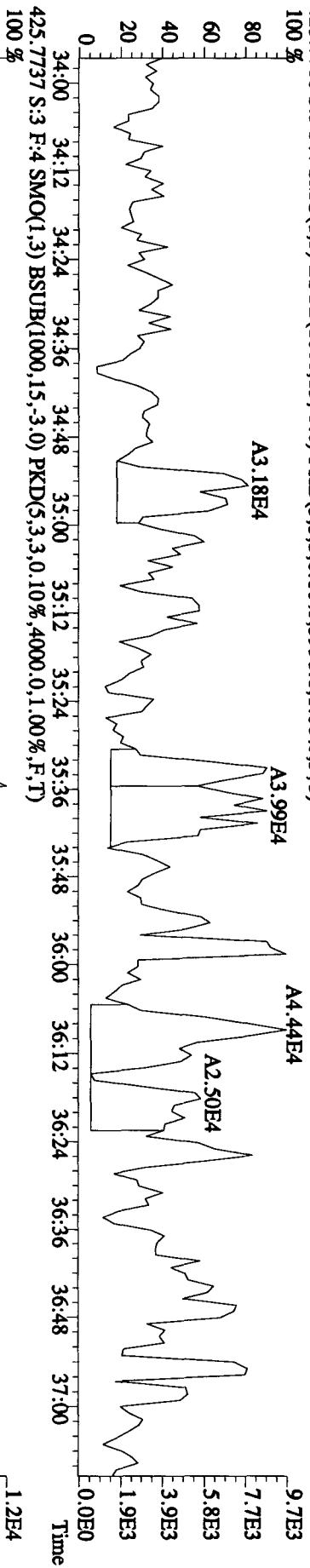
File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 15:46:23 GC EI + Voltage SIR 70SE
 Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.3248,0.1,0.0%,F,T)



File:041A10A1D5 #1-227 Acq: 4-JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN
 407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6580,0,1.00%,F,T)
 100% A2.62E4



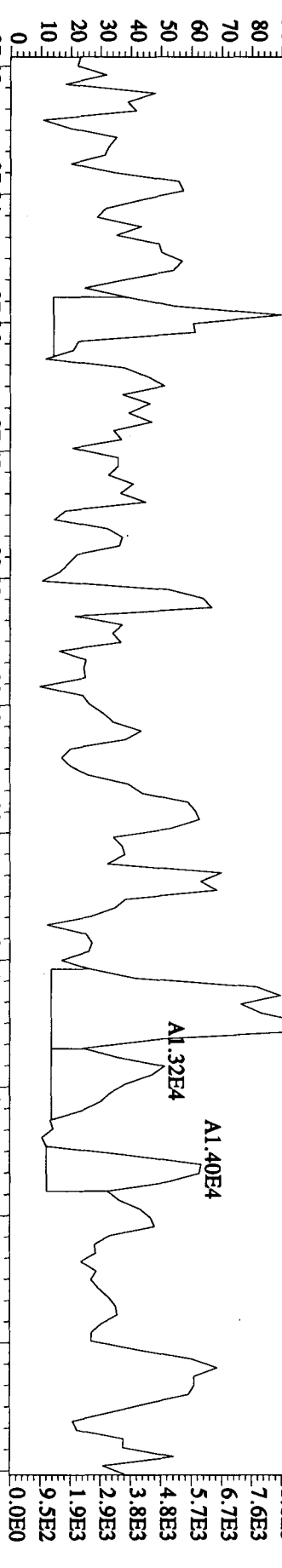
File:04JA10A1D5 #1-227 Acq:4-JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN
 423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3996.0,1.00%,F,T)



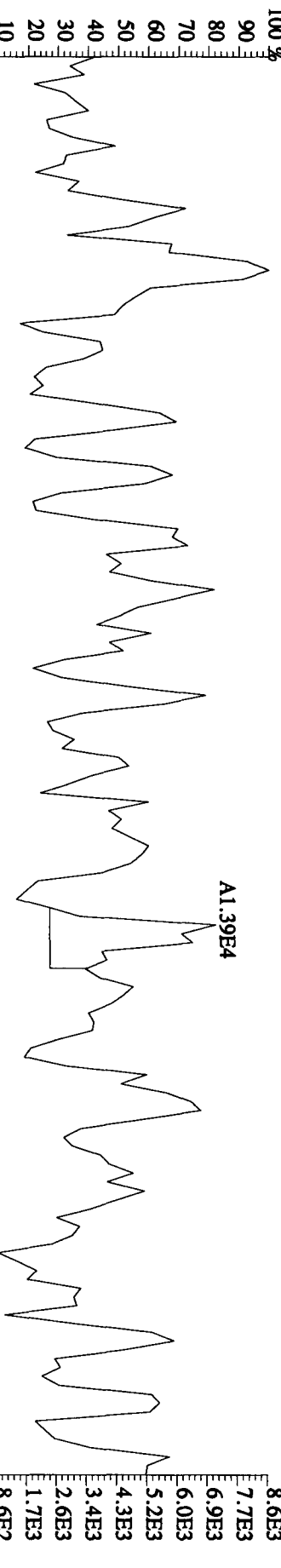
File:04JA10A1D5 #1-161 Acq: 4JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN

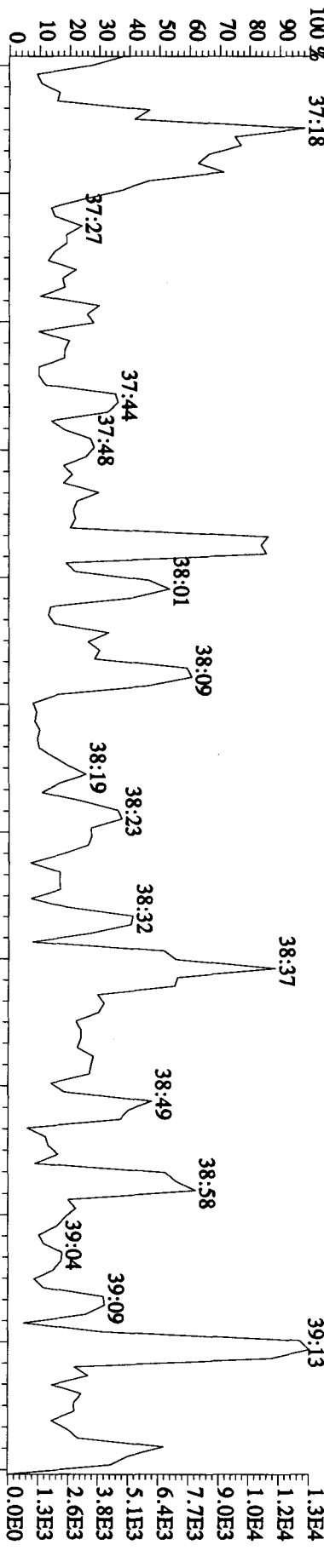
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,4040.0,1.00%,F,T)



443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,4484.0,1.00%,F,T)



513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,3556.0,1.00%,F,T)

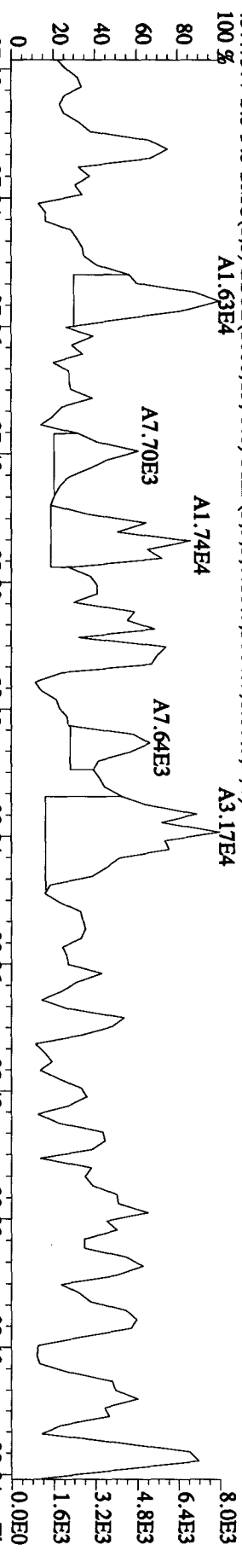


File:041A10A1D5 #1-161 Acq: 4-JAN-2010 15:46:23 GC EI + Voltage SIR 70SE

Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN

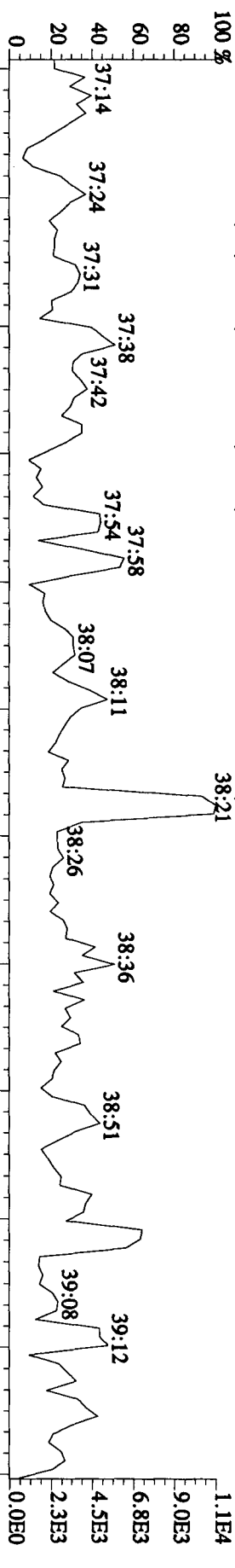
457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3084,0.1,00%,F,T)

100% A1.63E4



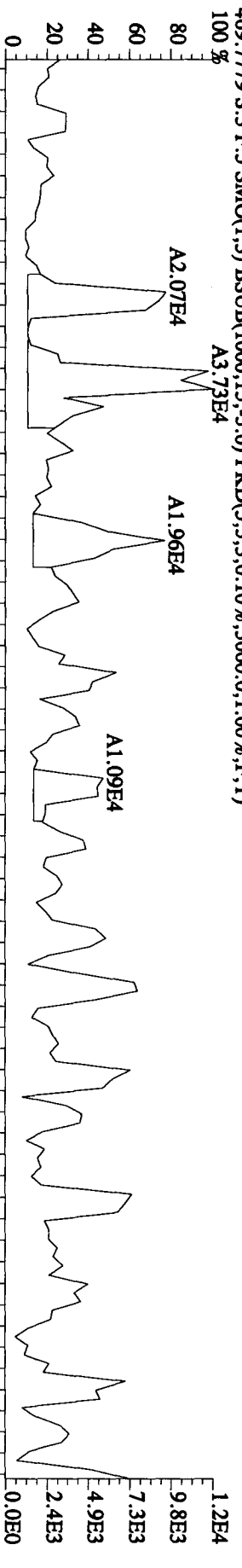
459.7348 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3864,0.1,00%,F,T)

100%



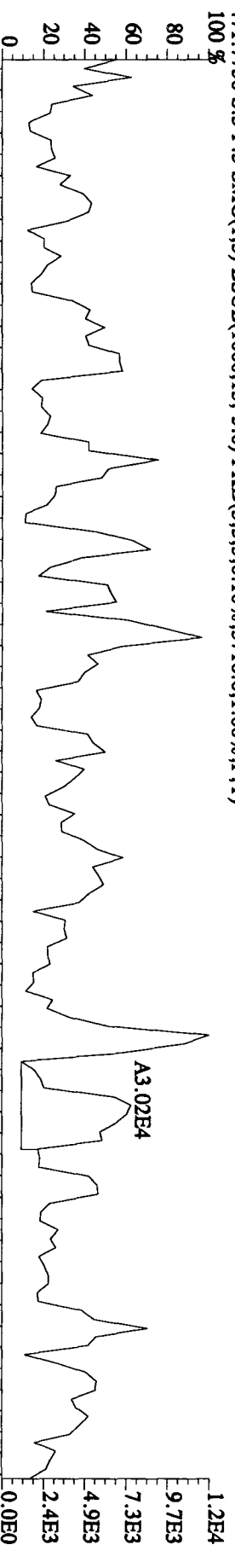
469.7779 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3060,0.1,00%,F,T)

100%



471.7750 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5716,0.1,00%,F,T)

100%

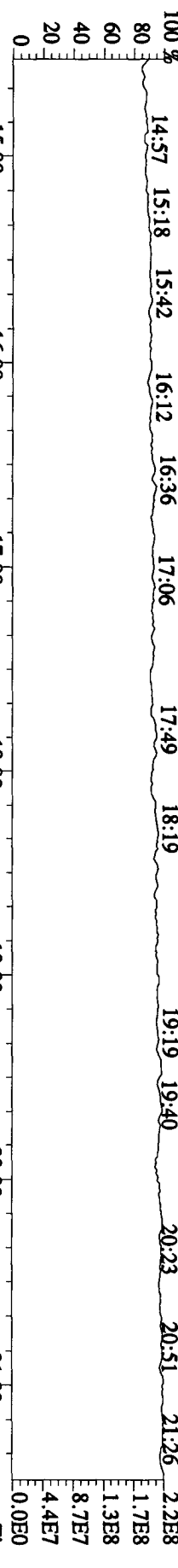


File:041A10A1D5 #1-411 Acq: 4-JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN

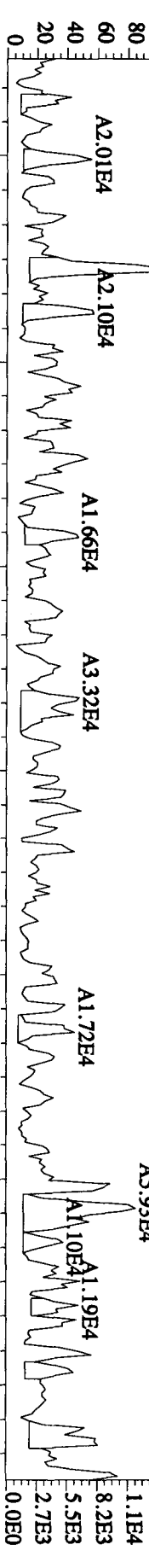
292.9825 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

14:57 15:18 15:42 16:12 16:36 17:06 17:49 18:19 19:19 19:40 20:23 20:51 21:26



303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3.492,0.1,0.00%,F,T)

14:57 15:18 15:42 16:12 16:36 17:06 17:49 18:19 19:19 19:40 20:23 20:51 21:26



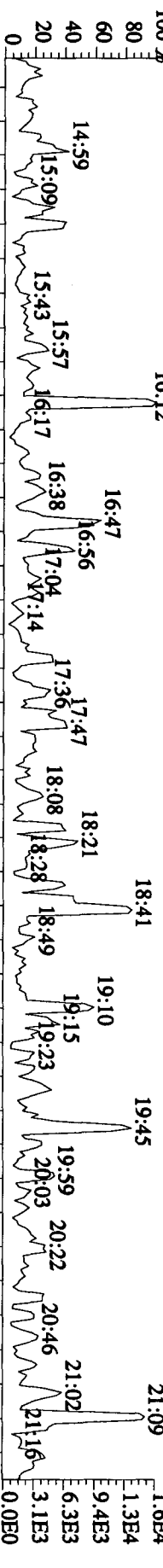
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6.268,0.1,0.00%,F,T)

14:57 15:18 15:42 16:12 16:36 17:06 17:49 18:19 19:19 19:40 20:23 20:51 21:26



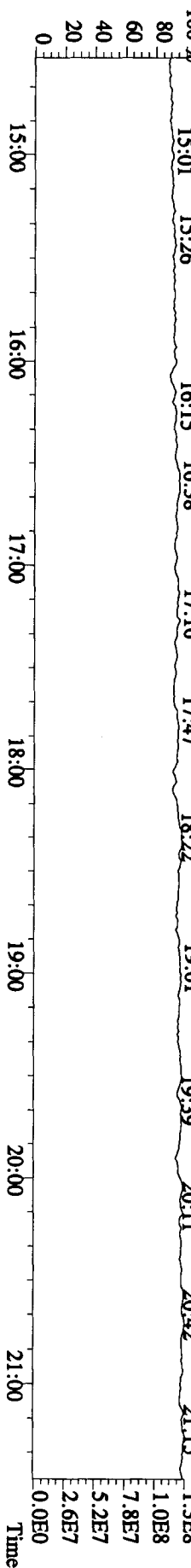
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2.732,0.1,0.00%,F,T)

14:57 15:18 15:42 16:12 16:36 17:06 17:49 18:19 19:19 19:40 20:23 20:51 21:26



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

14:57 15:18 15:42 16:12 16:36 17:06 17:49 18:19 19:19 19:40 20:23 20:51 21:26

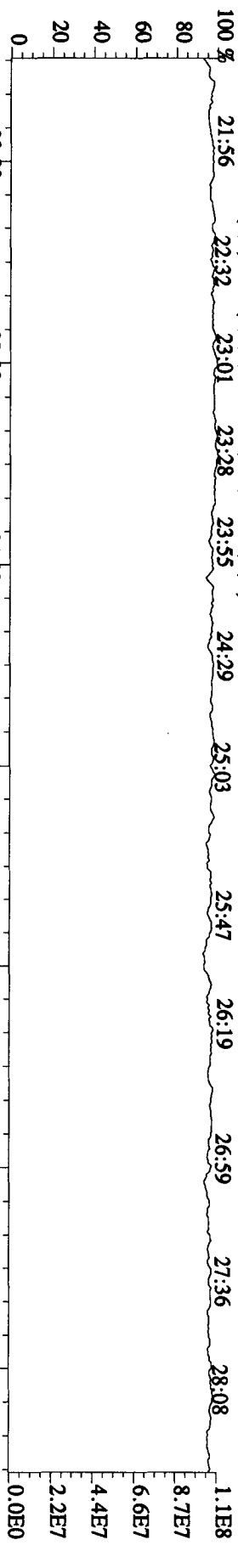


File:041A10A1D5 #1-495 Acq: 4-JAN-2010 15:46:23 GC EI + Voltage SIR 70SE

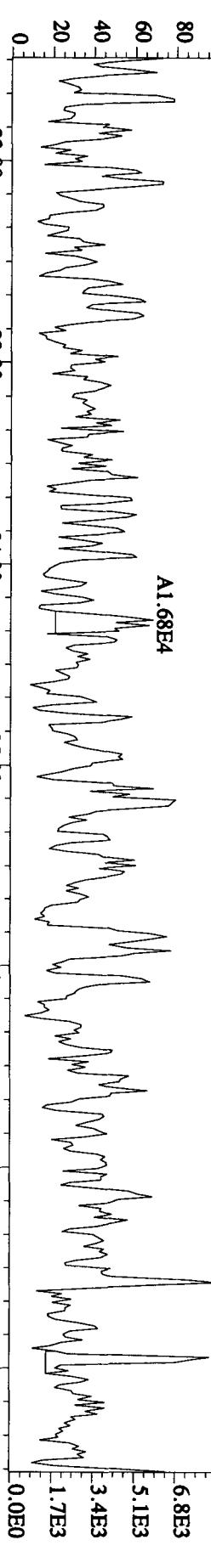
Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN

342.9792 S:3 F:2 SMO(1.3) PKD(5.3,3,100,00%,0.0,1.00%,F,T)

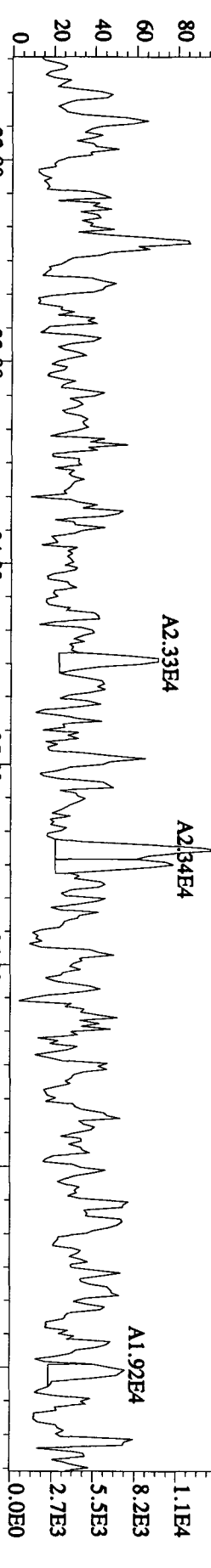
100 % 21:56 22:32 23:01 23:28 23:55 24:29 25:03 25:47 26:19 26:59 27:36 28:08



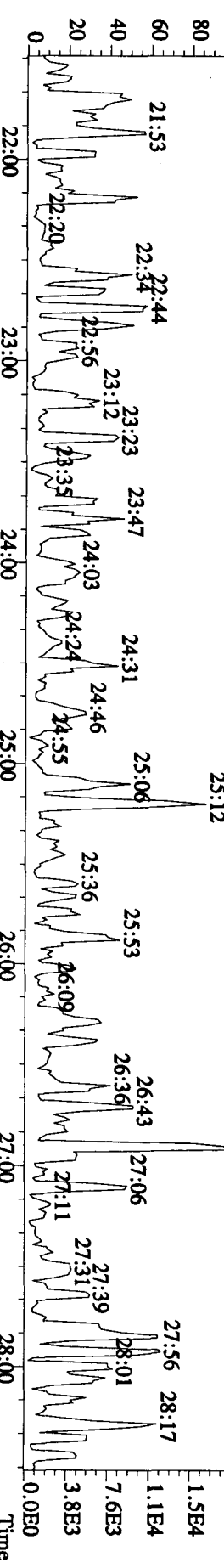
339.8597 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,3624,0.1,00%,F,T)



341.8567 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,5384,0.1,00%,F,T)



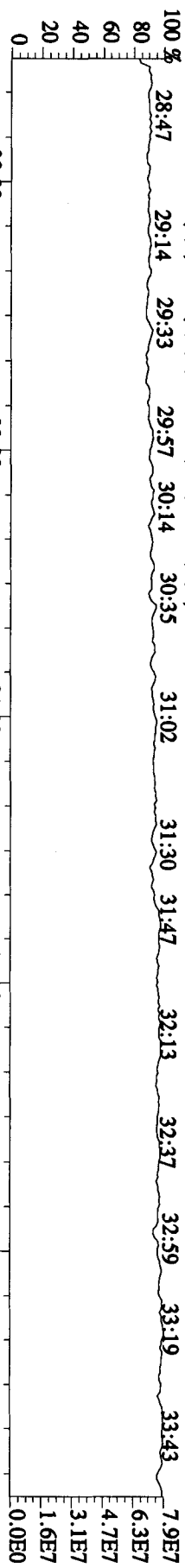
409.7974 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100,00%,2008,0.1,00%,F,T)



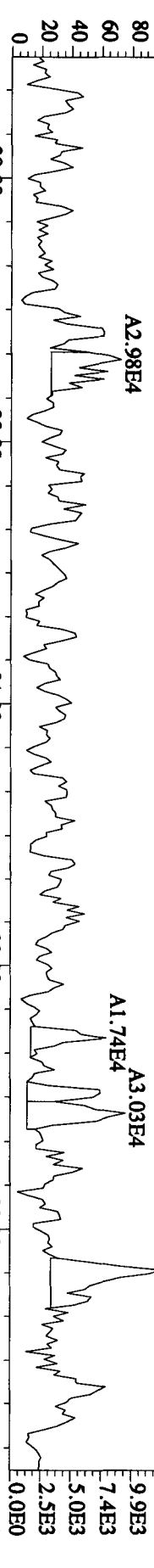
File:041A10A1D5 #1-362 Acq: 4-JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN

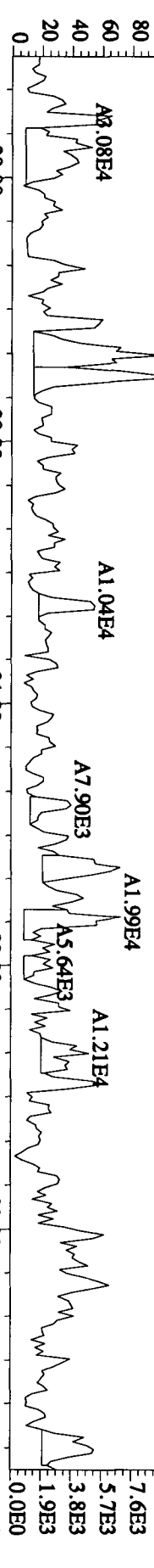
392.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



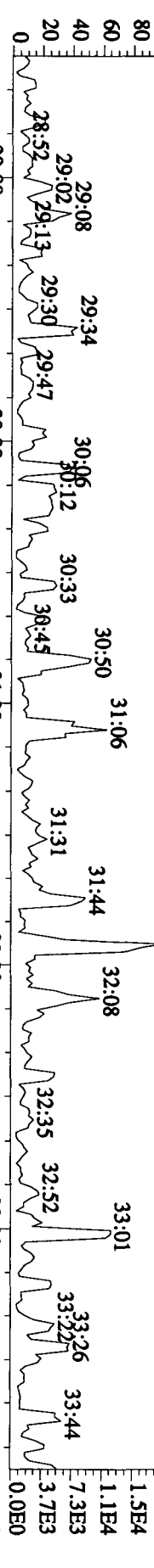
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4108,0,1.00%,F,T)



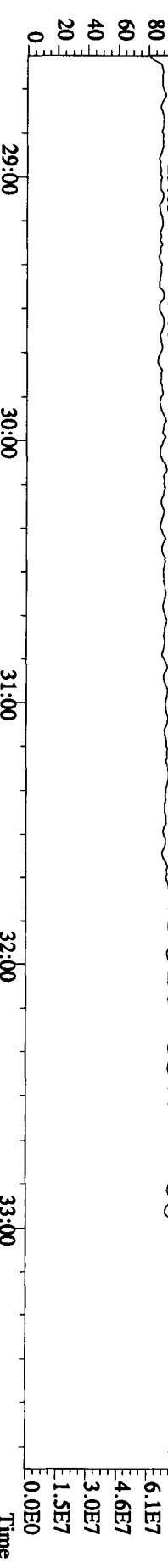
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2640,0,1.00%,F,T)

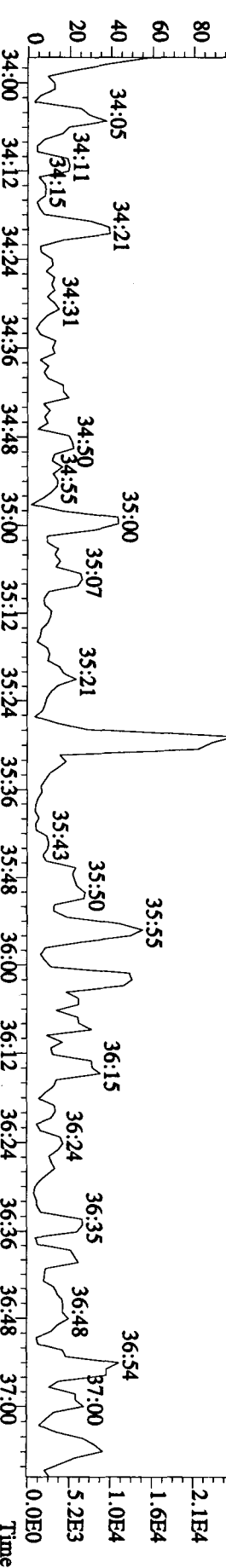
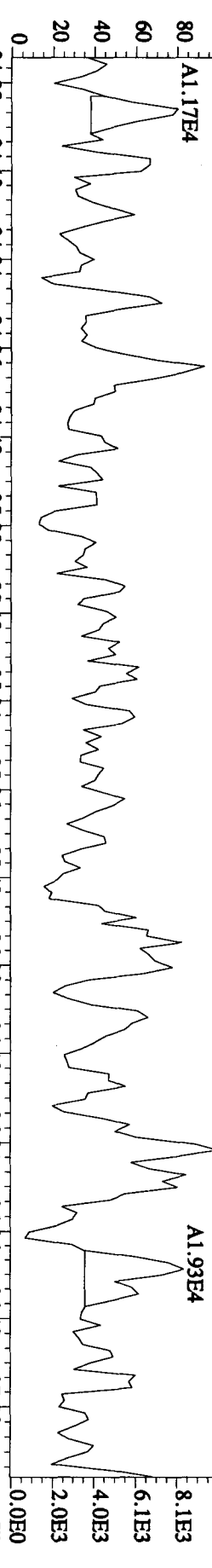
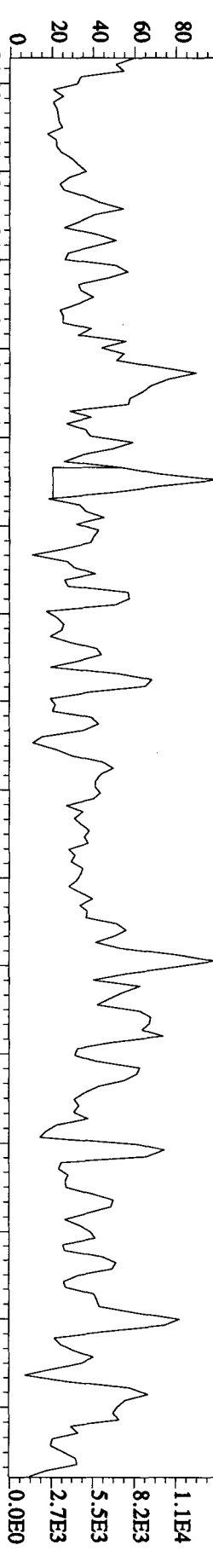
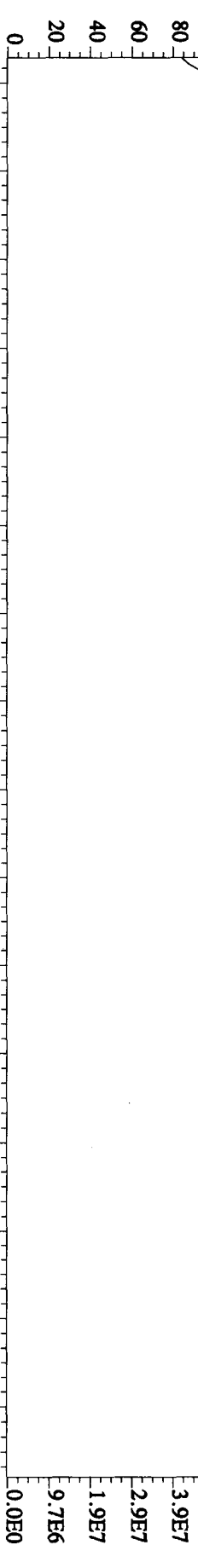


445.7555 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2020,0,1.00%,F,T)



380.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

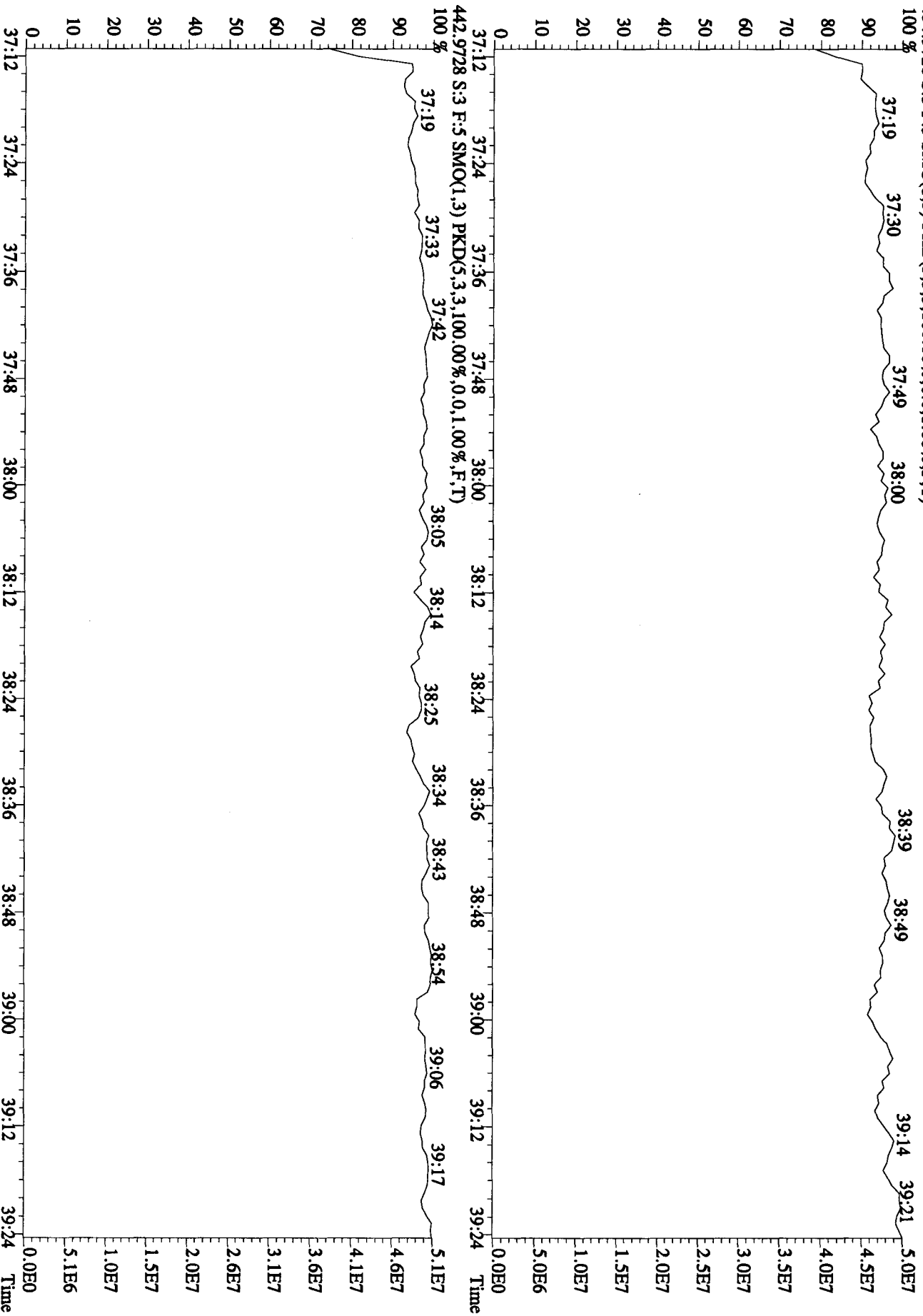




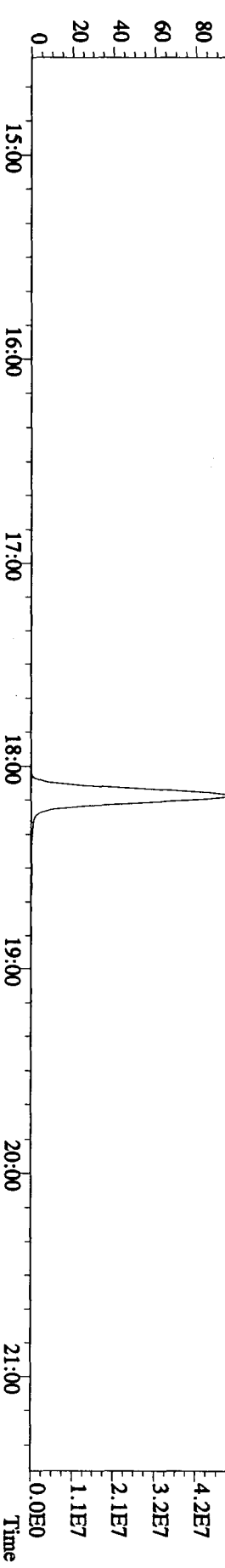
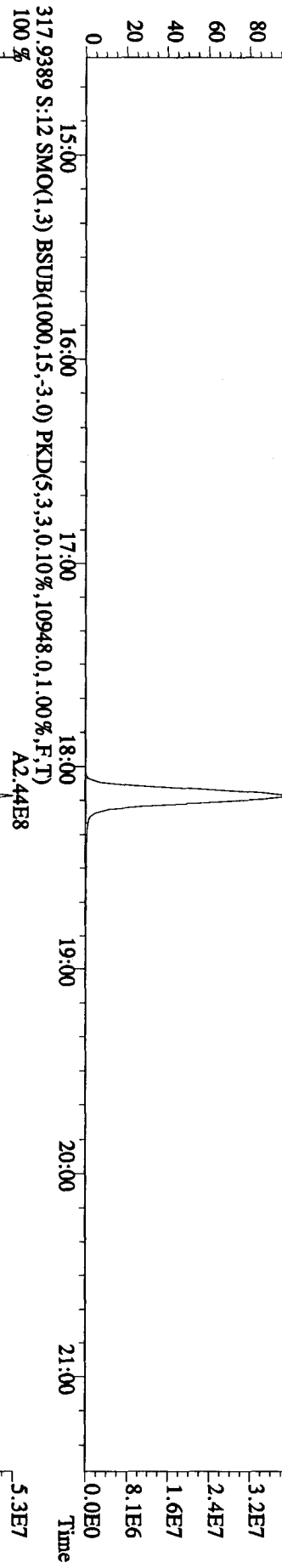
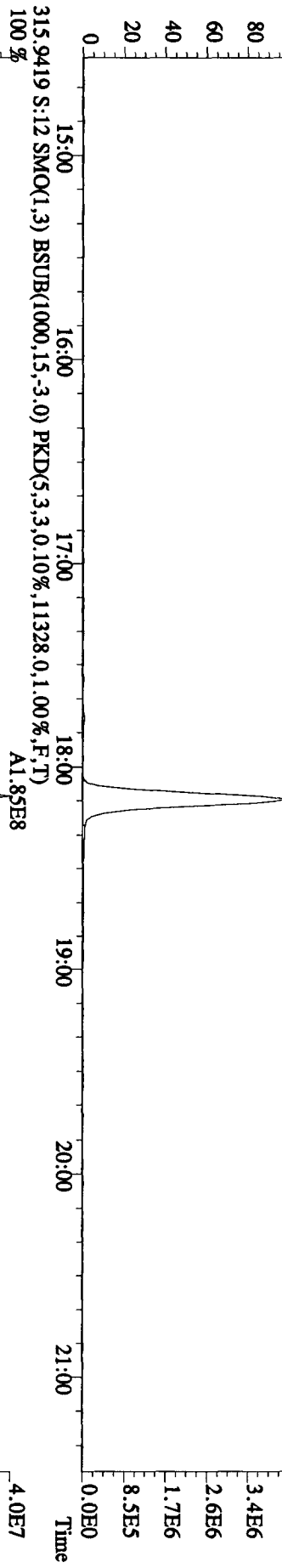
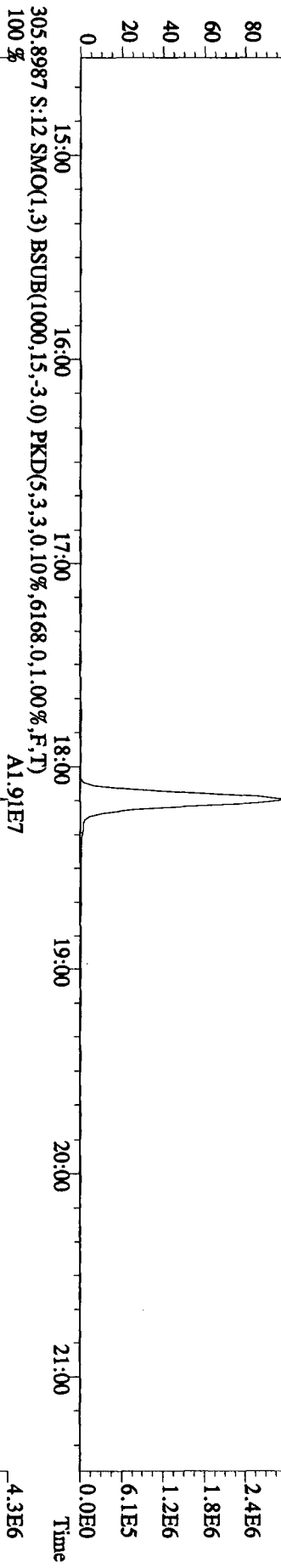
File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 15:46:23 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB0104 :Solvent Blank C-14 Exp:DIOXIN

454.9728 S:3 F:5 SMO(1.3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



File:04JA10AID5 #1-411 Acq: 4-JAN-2010 22:02:37 GC EI + Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 303,9016 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4520,0,1,00%,F,T)
 100 % A1.37E7



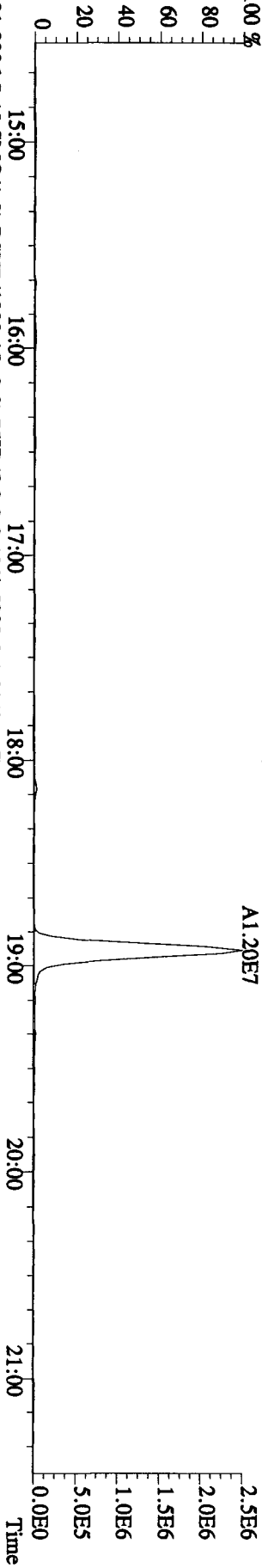
File:04J1A10A1D5 #1-411 Acq: 4-JAN-2010 22:02:37 GC EI + Voltage SIR 70SE

Sample#12 Text:ST0104A :CS3 09DXN425

Exp:DIOXIN

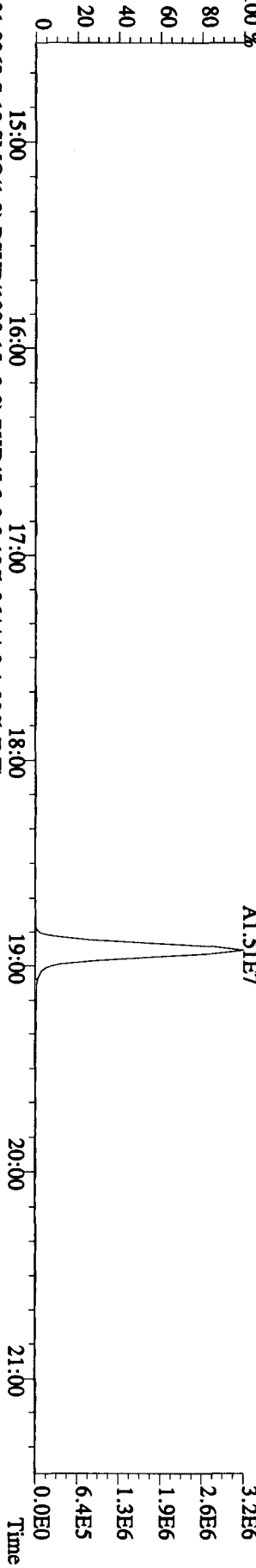
319.8965 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.5228,0,1.00%,F,T)

100 %



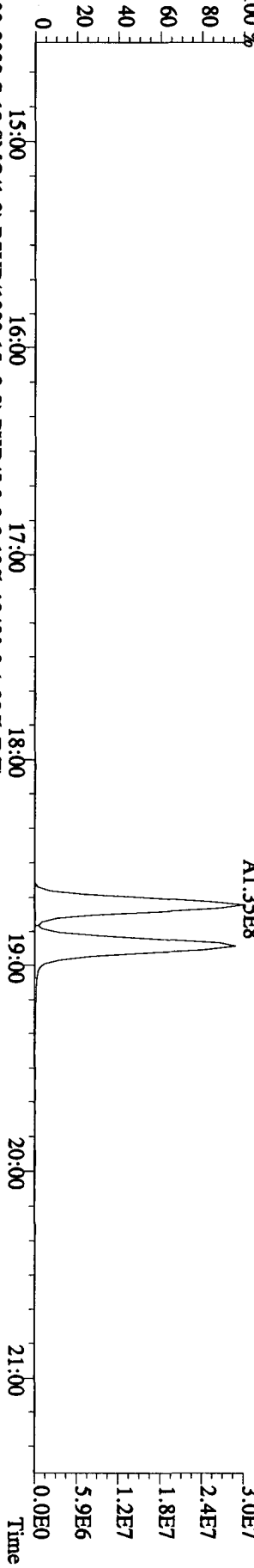
321.8936 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.5228,0,1.00%,F,T)

100 %



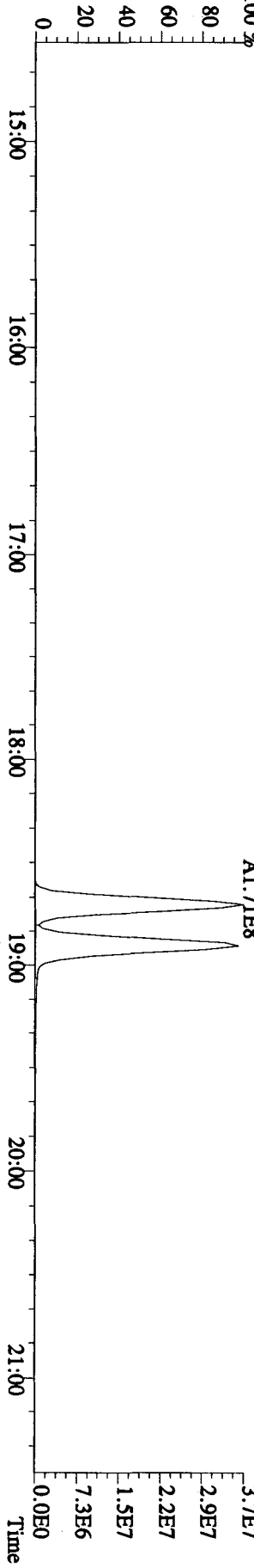
331.9368 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.26444,0,1.00%,F,T)

100 %

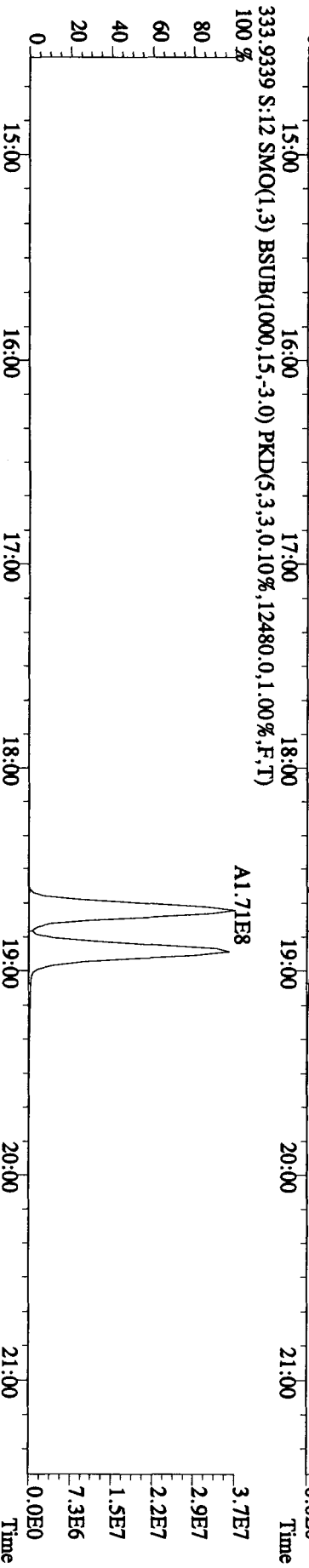
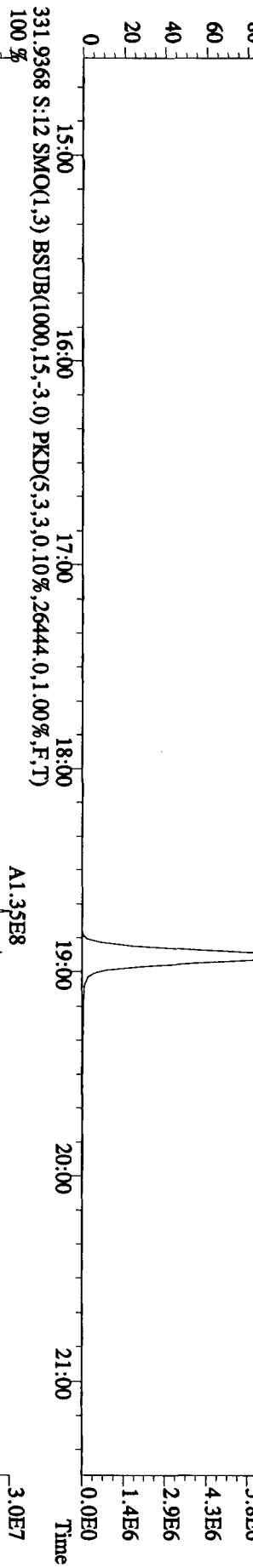
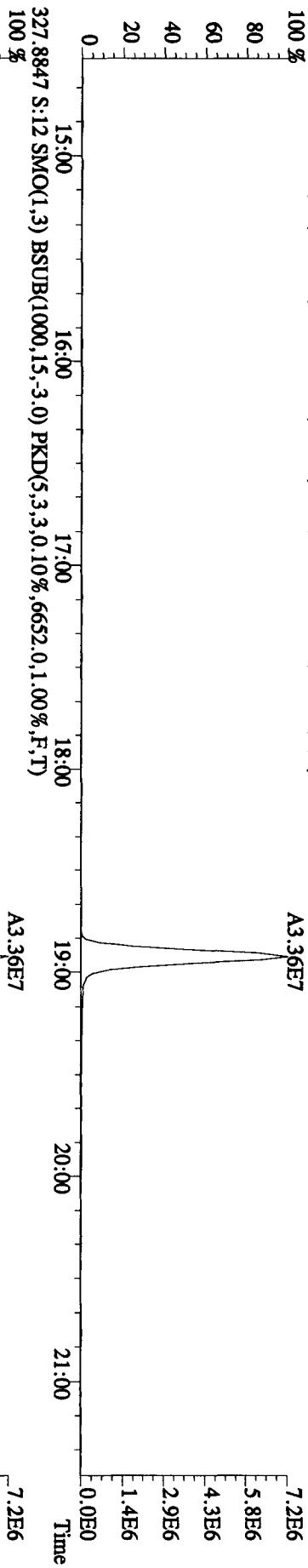


333.9339 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.12480,0,1.00%,F,T)

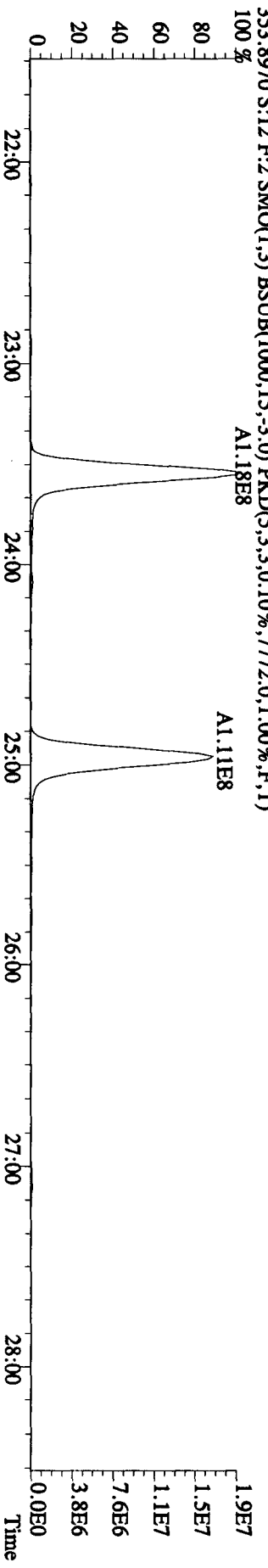
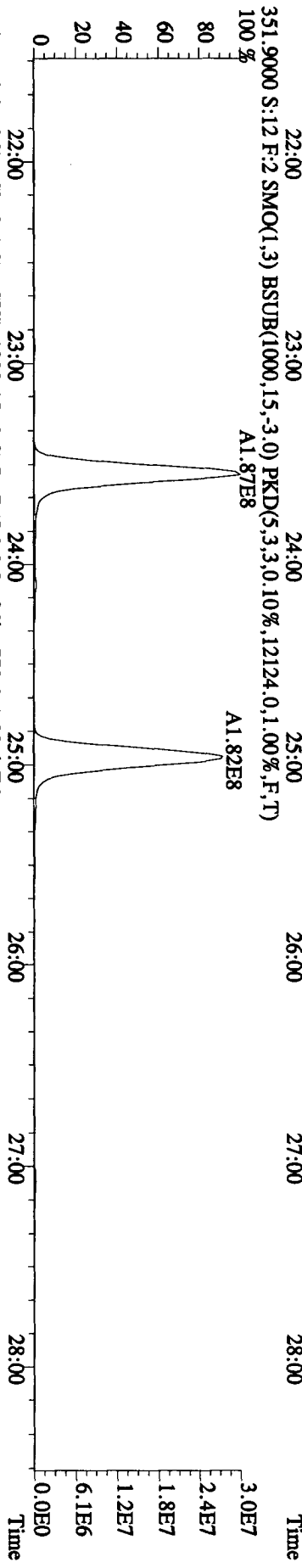
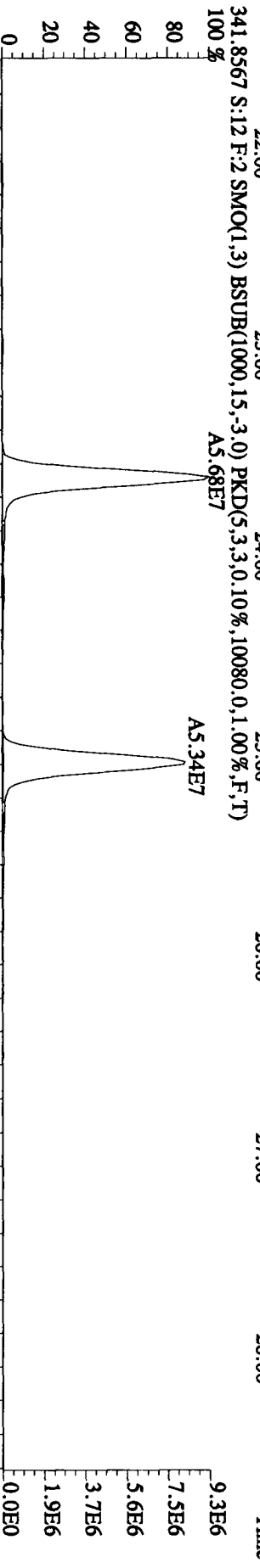
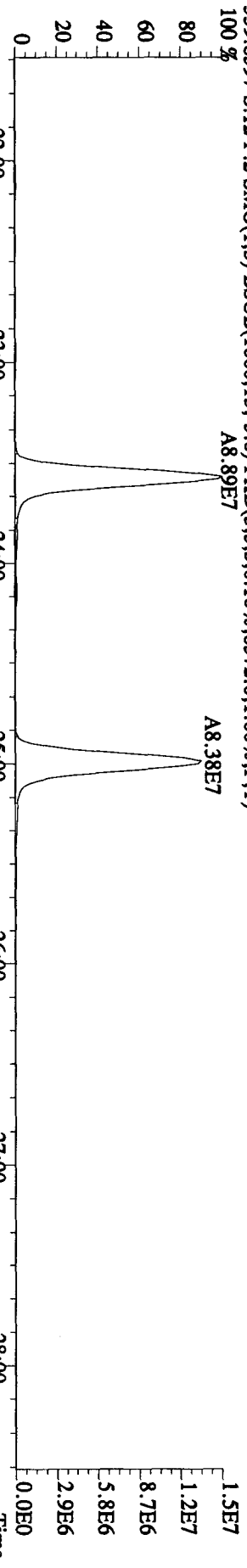
100 %



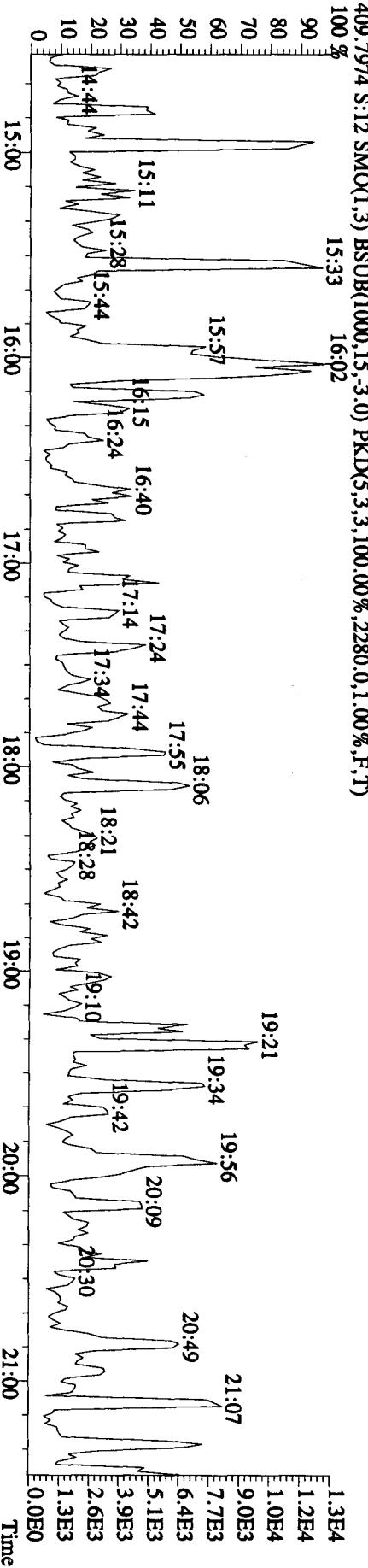
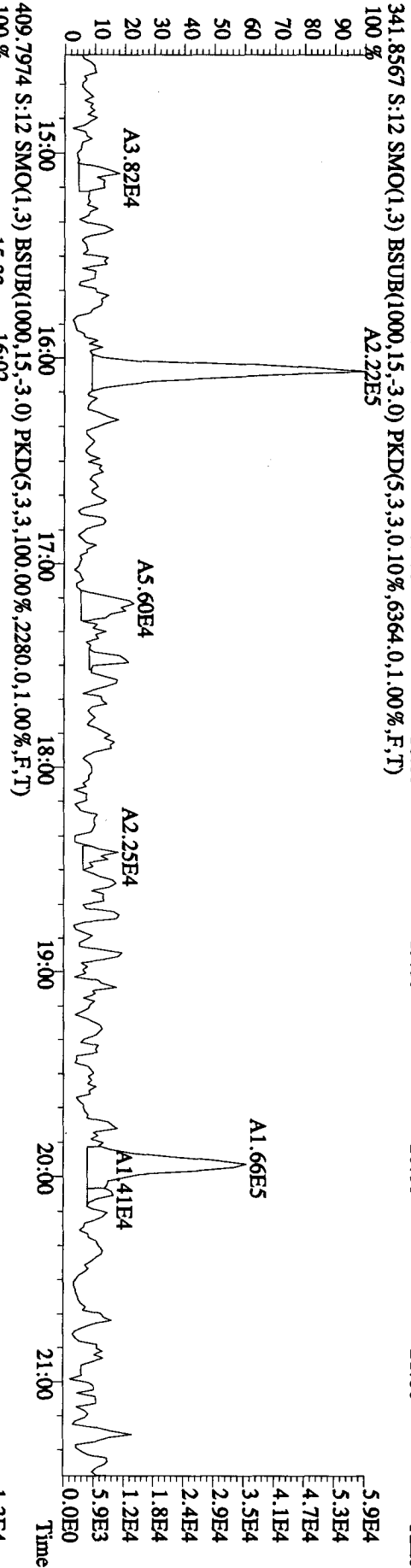
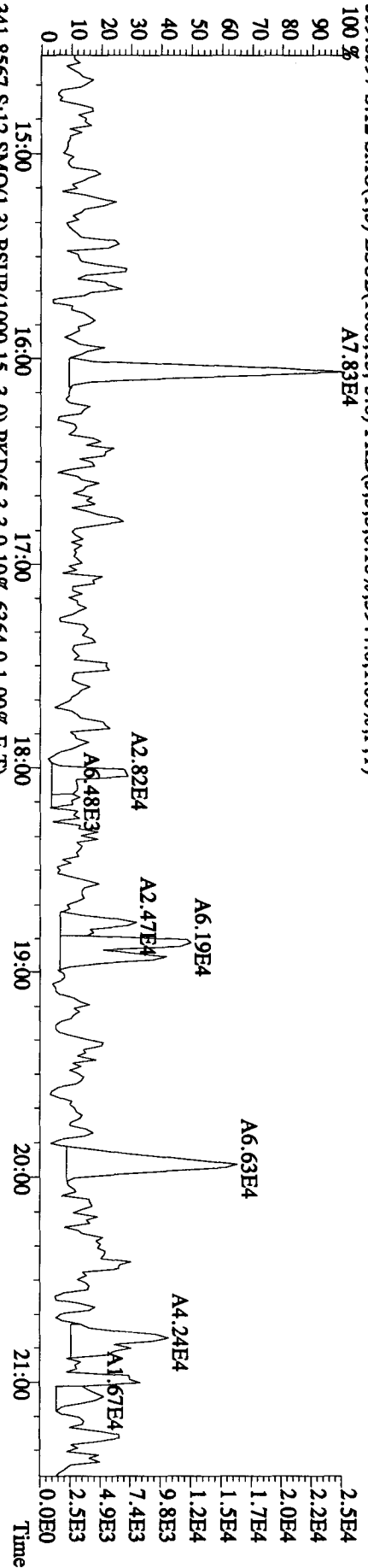
File:041A10A1D5 #1-411 Acq: 4-JAN-2010 22:02:37 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DDXN425 Exp:DIOXIN
 327.8847 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6652,0,1,00%,F,T) 100 %



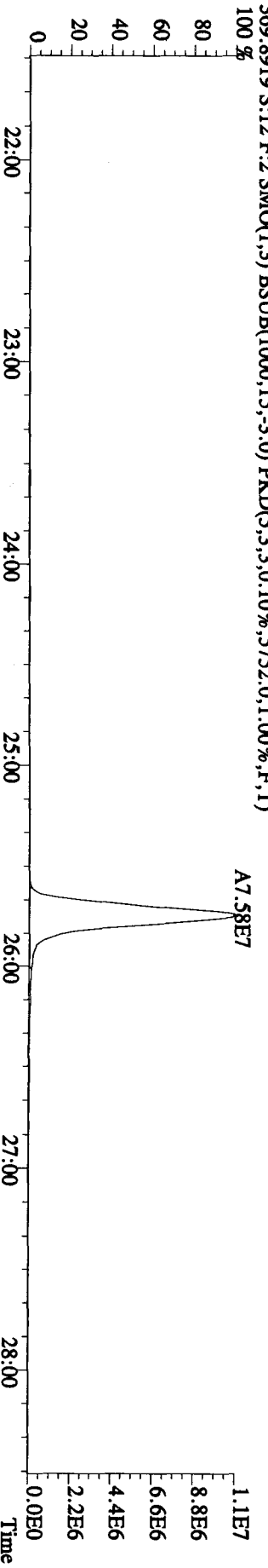
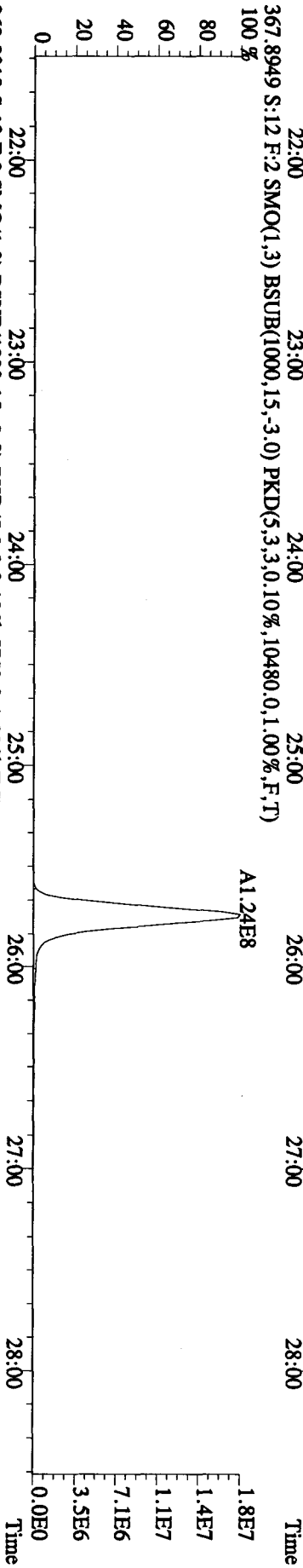
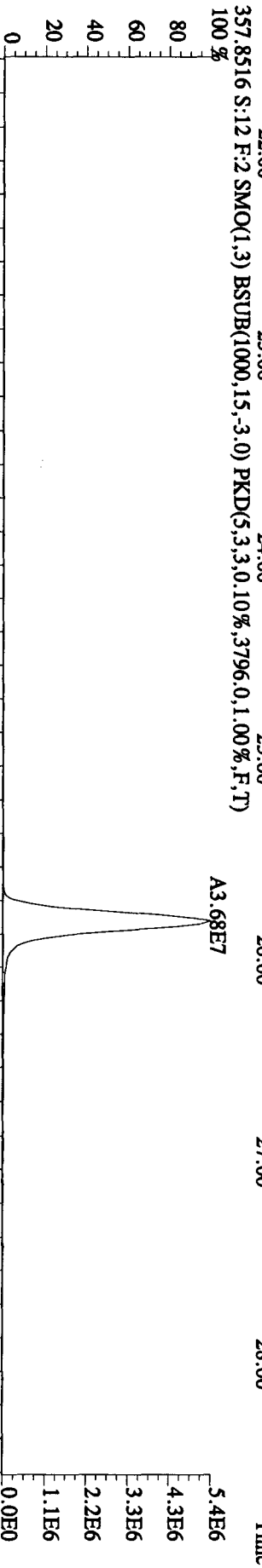
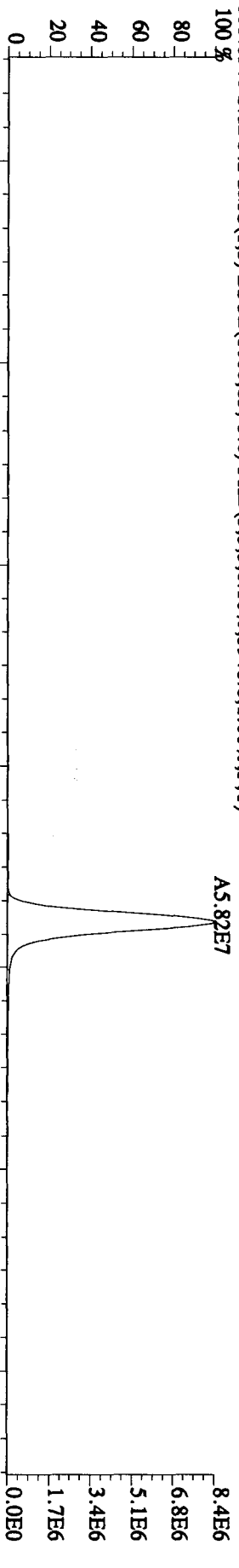
File:04JA10A1D5 #1-495 Acq: 4-JAN-2010 22:02:37 GC EI + Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 339.8597 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8572.0,1.00%,F,T)
 100 %



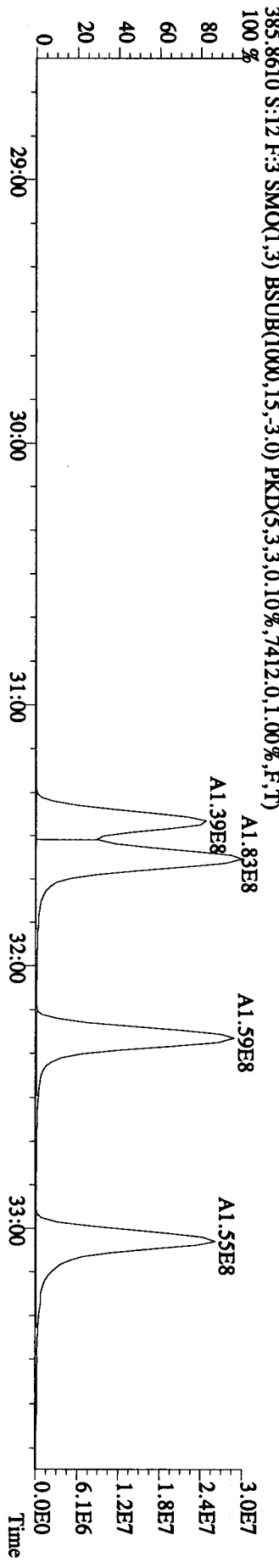
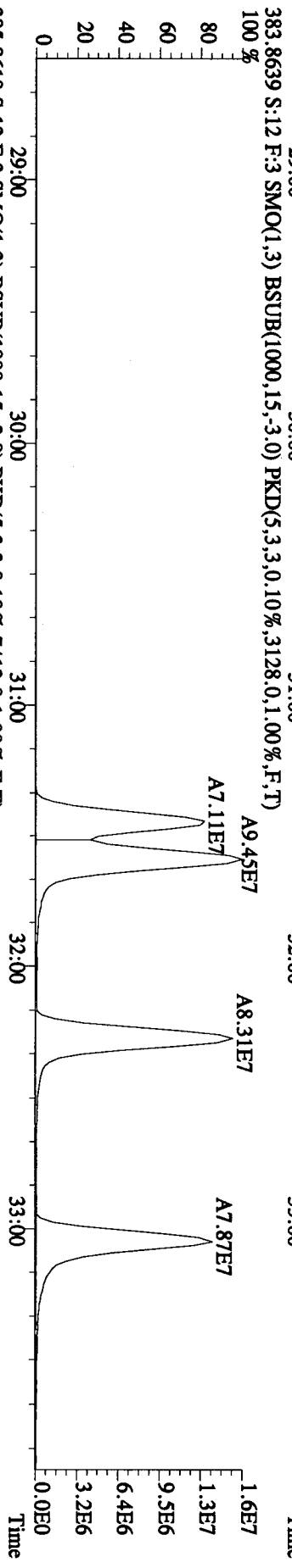
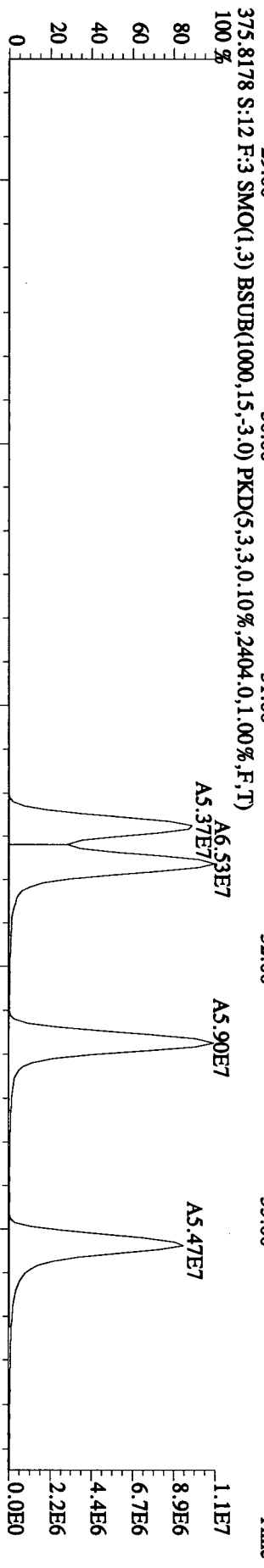
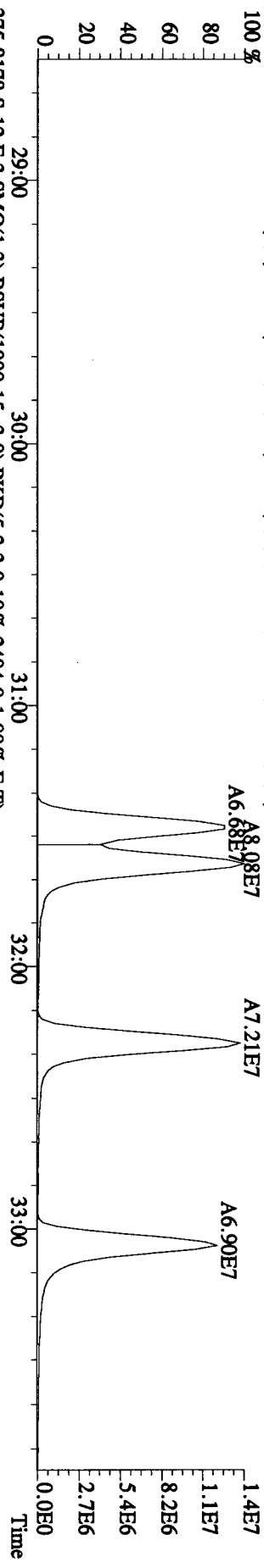
File:04JA10A1D5 #1-411 Acq: 4-JAN-2010 22:02:37 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 339.8597 S:12 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3.0,10%,3944.0,1.00%,F,T)



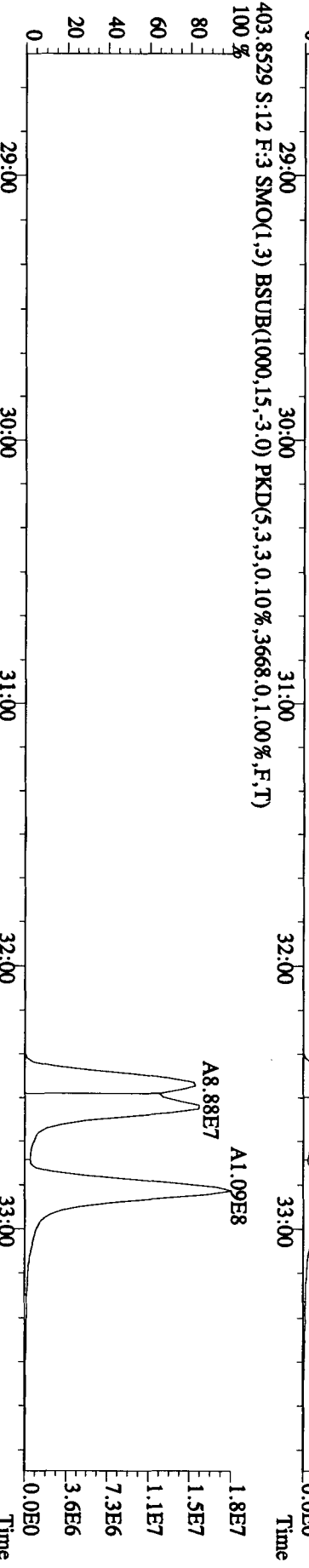
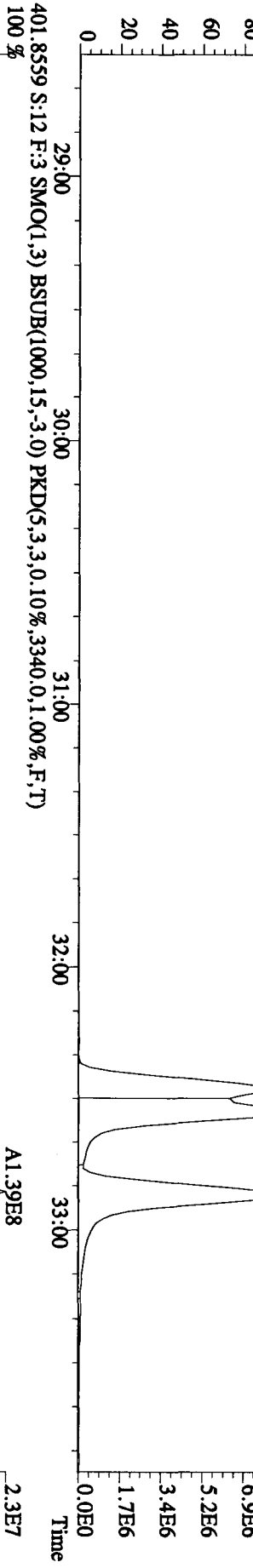
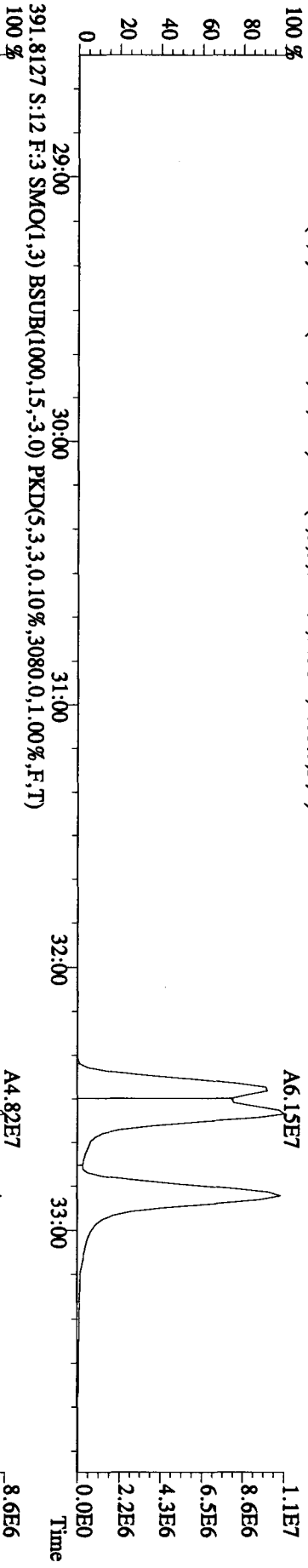
File:04JA10A1D5 #1-495 Acq: 4-JAN-2010 22:02:37 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 355.8546 S:12 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5948,0,1,00%,F,T)
 100 %



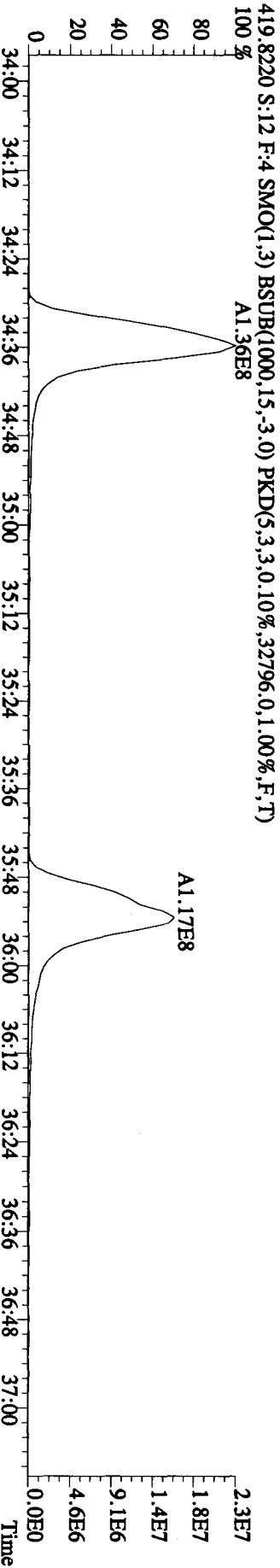
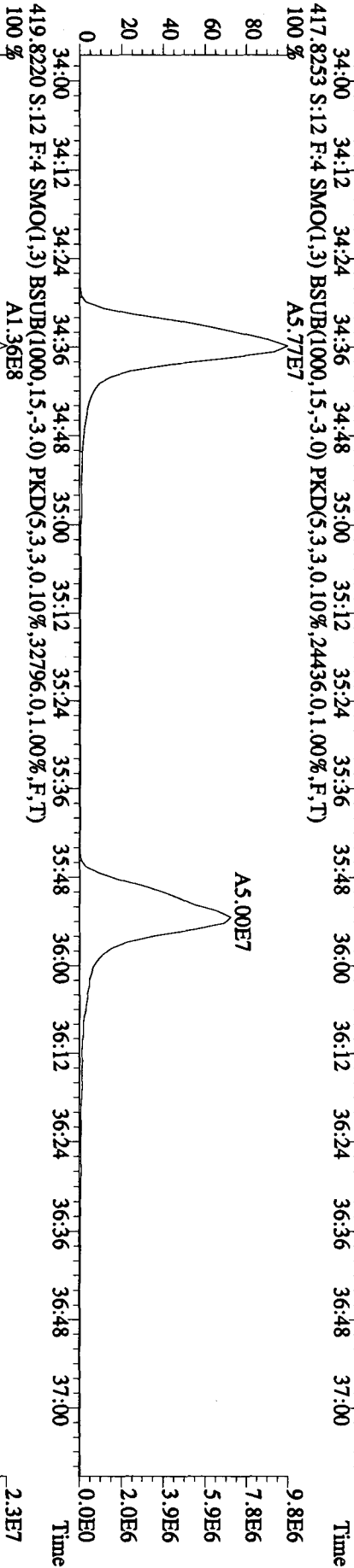
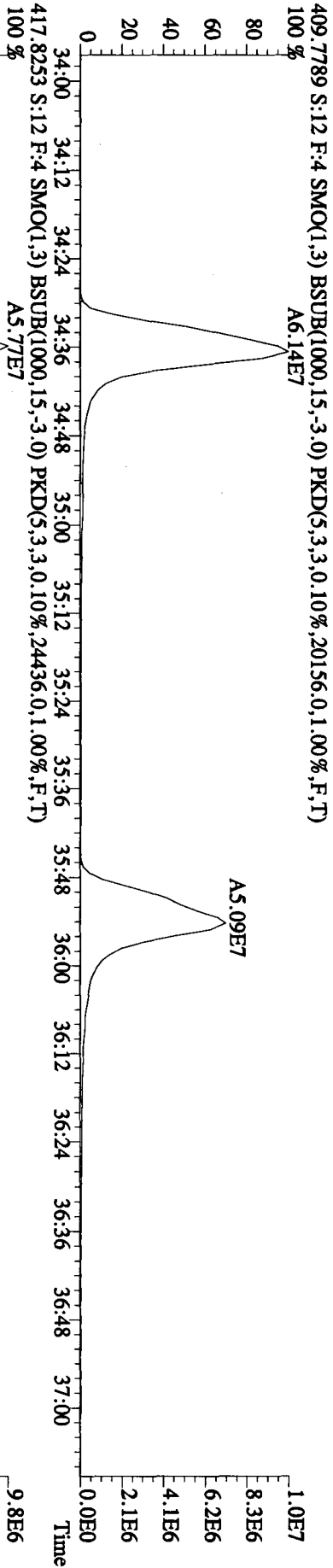
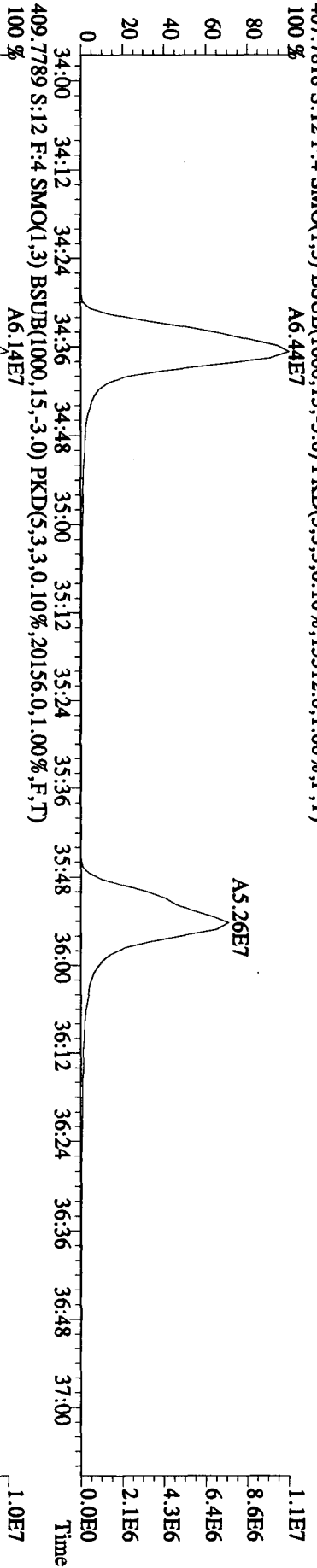
File:04JA10A1D5 #1-362 Acq: 4-JAN-2010 22:02:37 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 373.8208 S:12 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5024.0,1.00%,F,T)



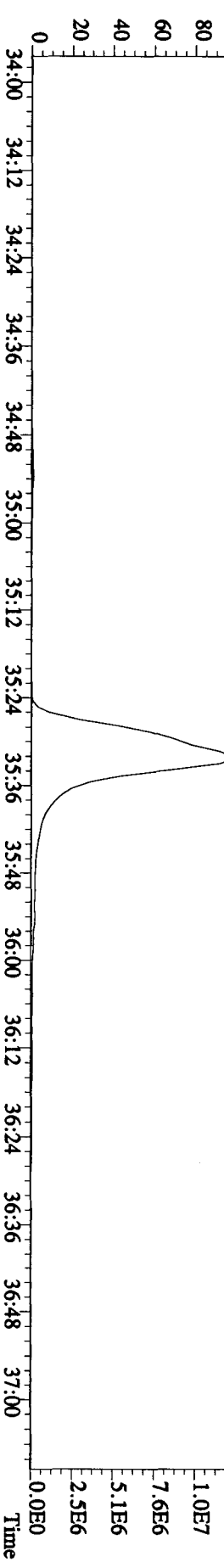
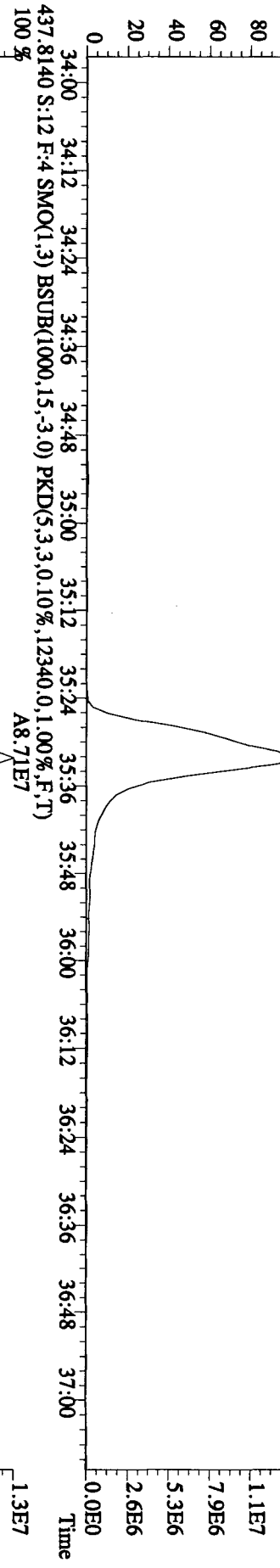
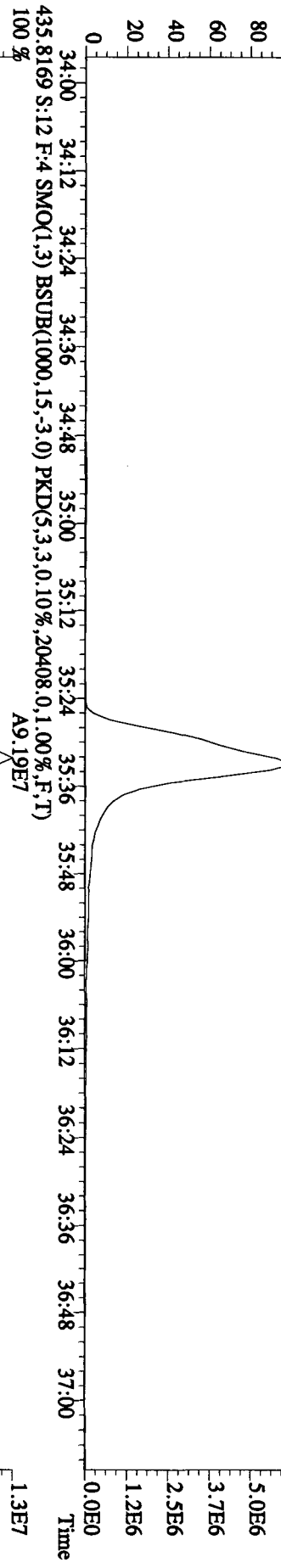
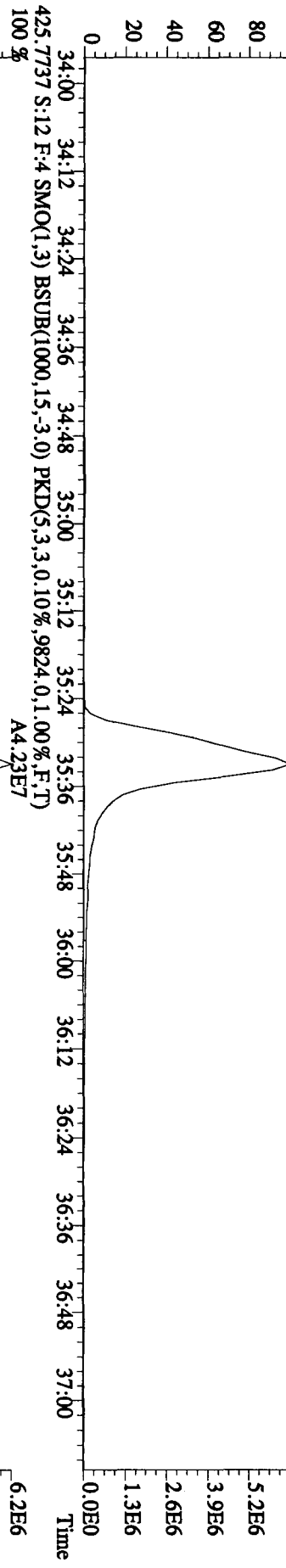
File:04JA10A10A1D5 #1-362 Acq: 4-JAN-2010 22:02:37 GC EI + Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 389.8157 S:12 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2256,0.1,0.0%,F,T)



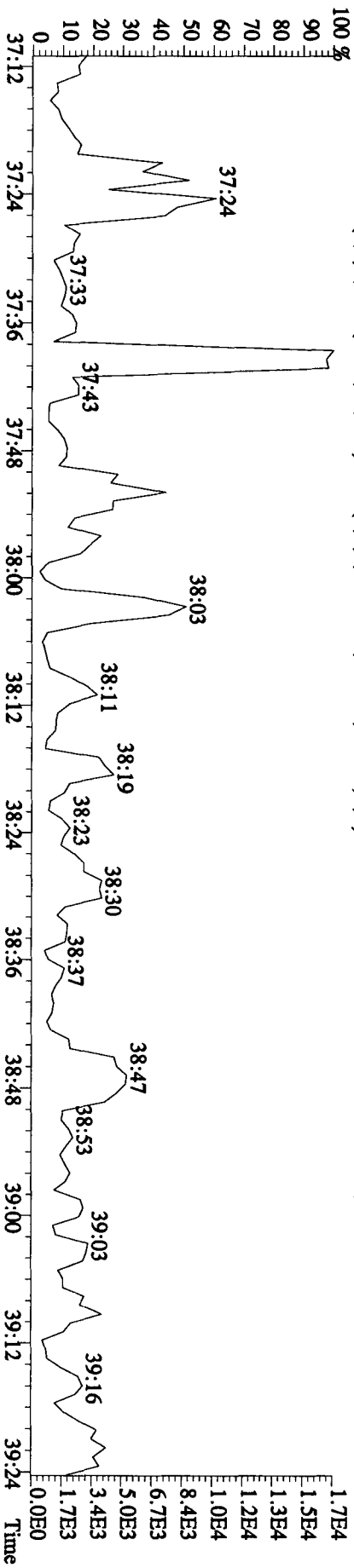
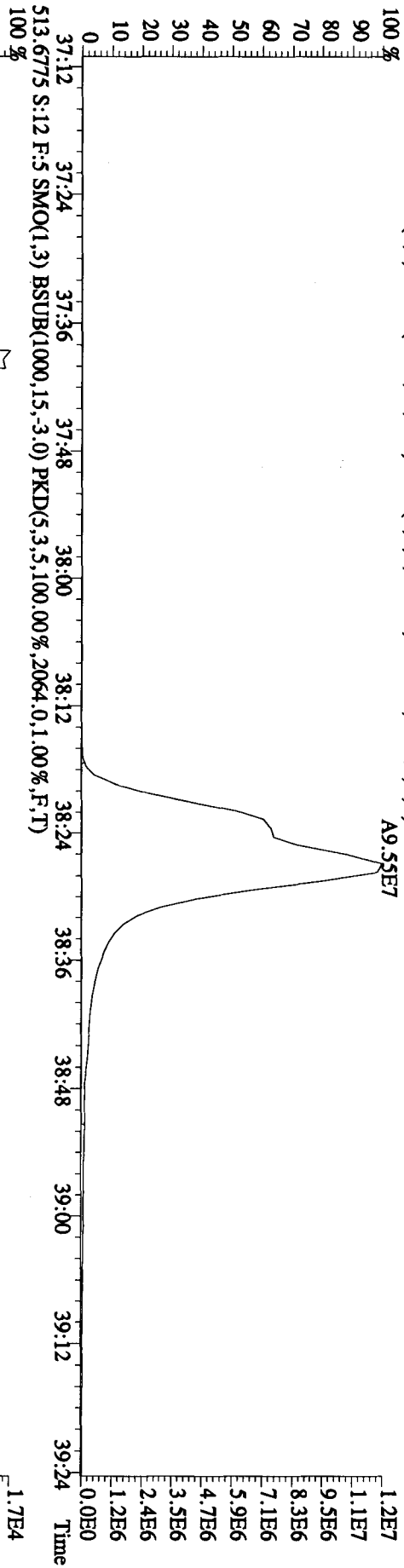
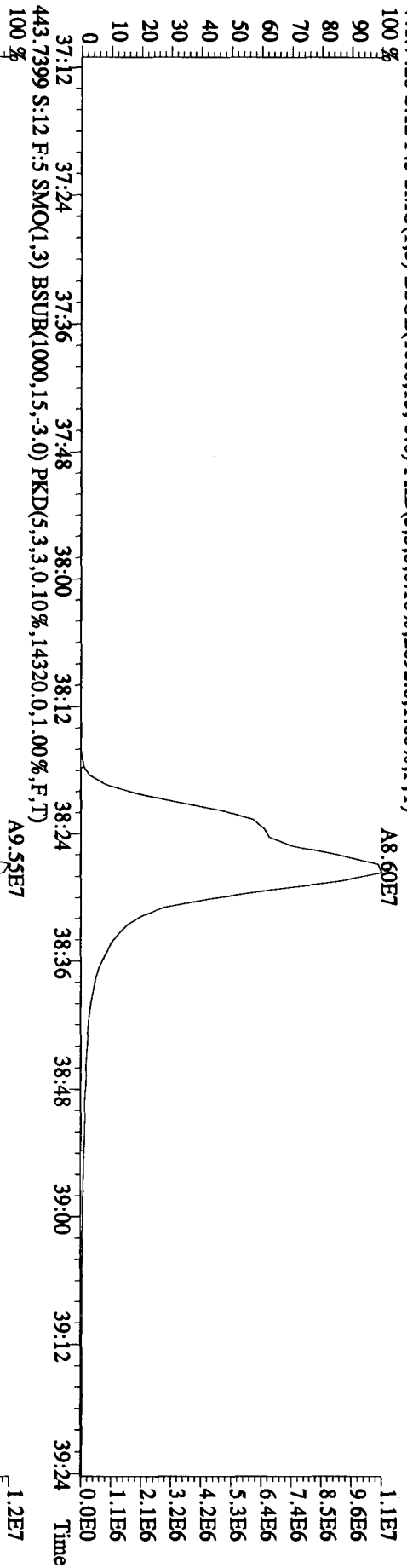
File:04JA10A1D5 #1-227 Acq: 4-JAN-2010 22:02:37 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 407.7818 S:12 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,15512,0,1.00%,F,T)
 100 %



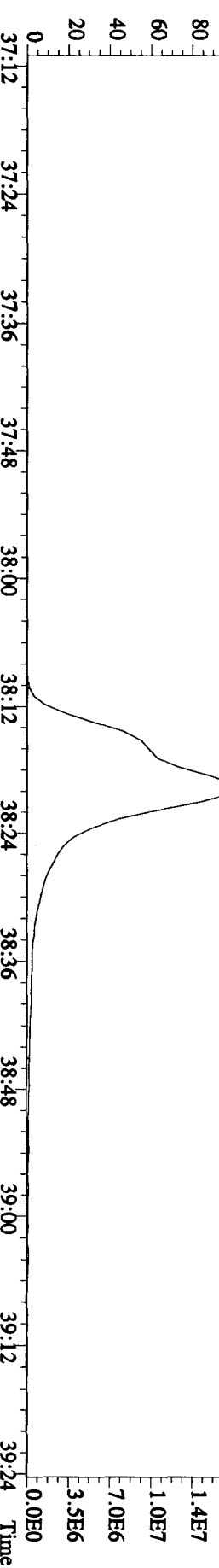
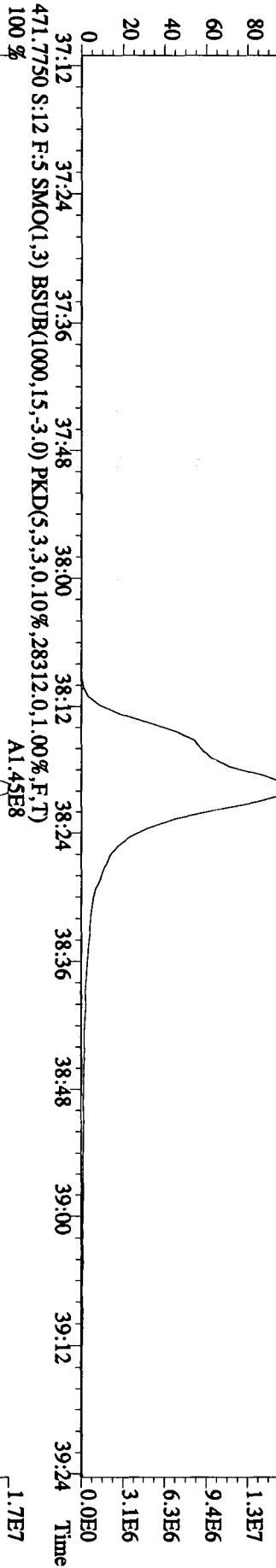
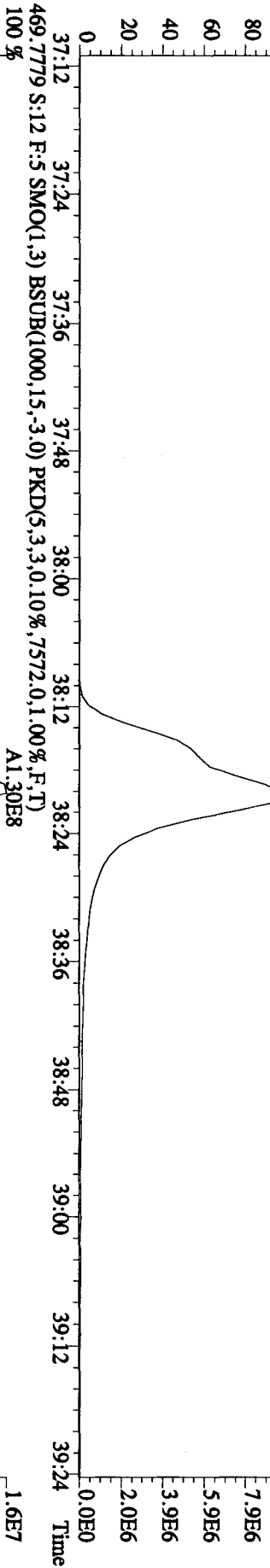
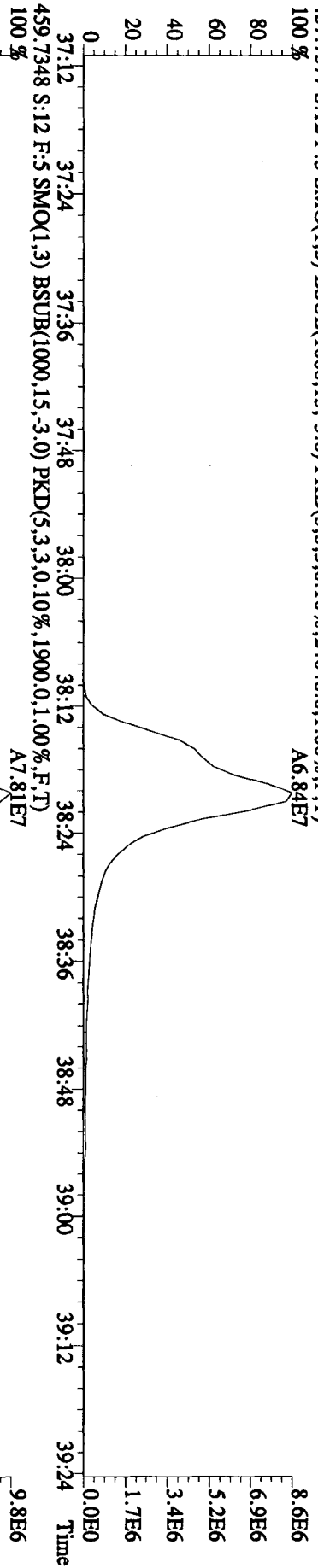
File:04JAI010A1D5 #1-227 Acq: 4-JAN-2010 22:02:37 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 423.7766 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,11152,0,1,00%,F,T)
 100 % A4.42E7

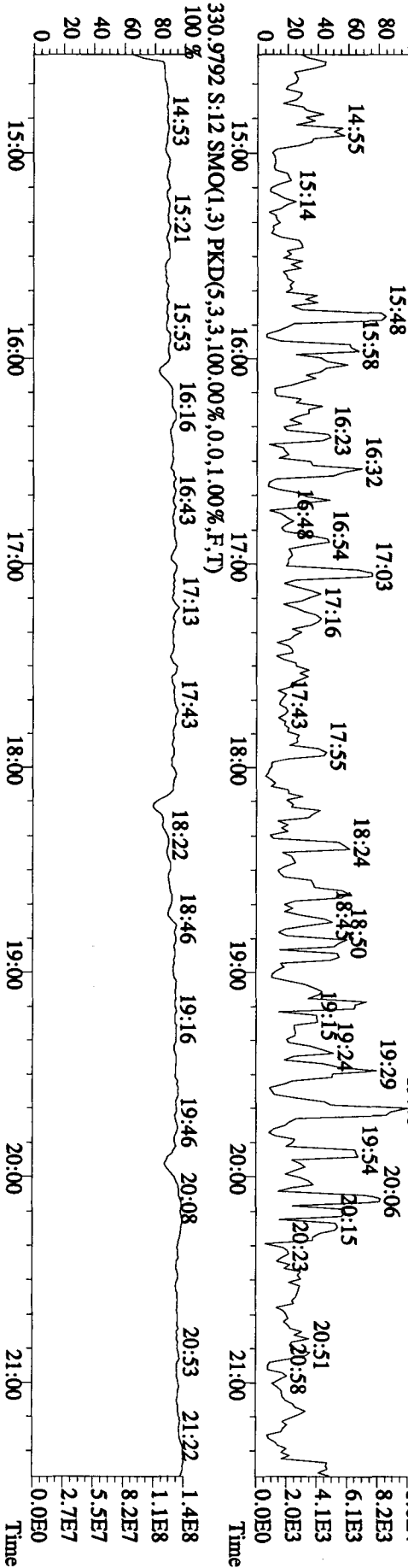
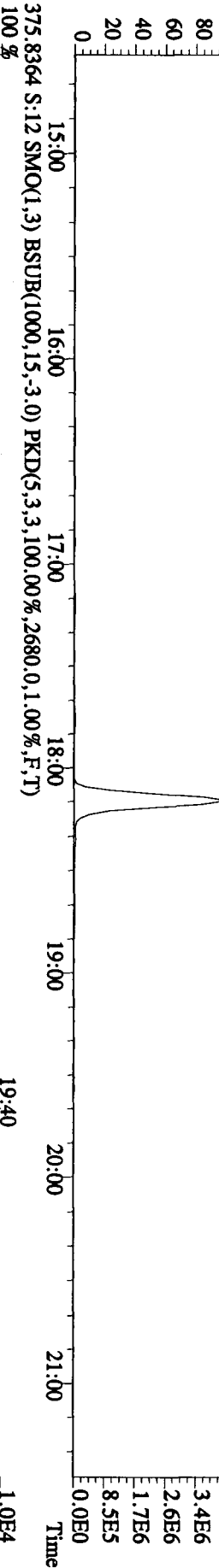
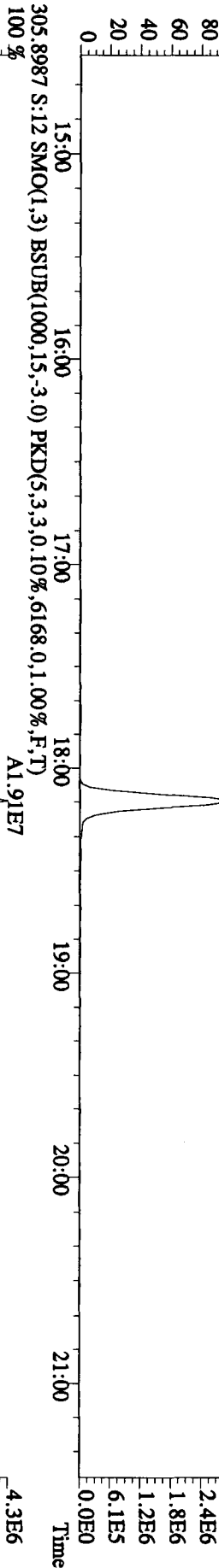
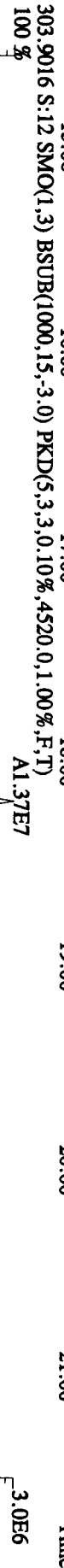
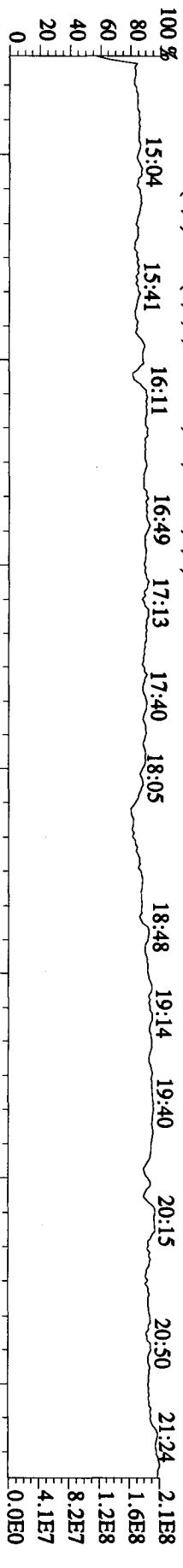


File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 22:02:37 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 441.7428 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2692.0,1.00%,F,T)

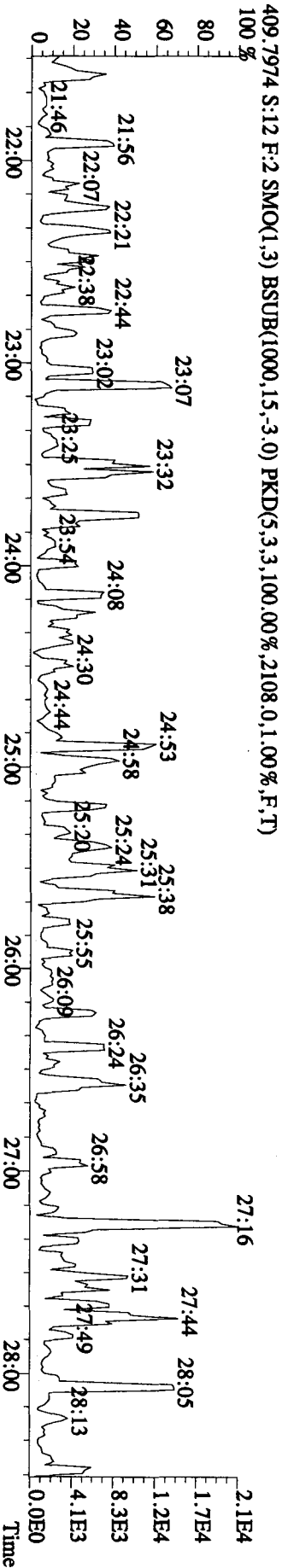
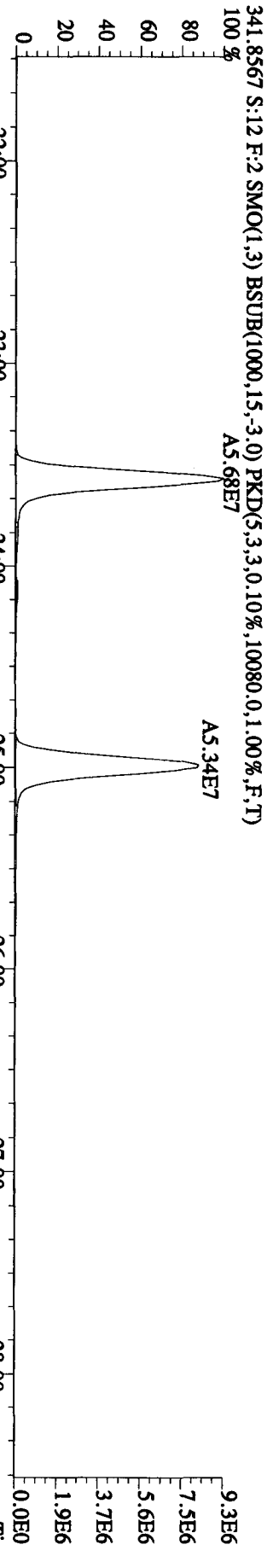
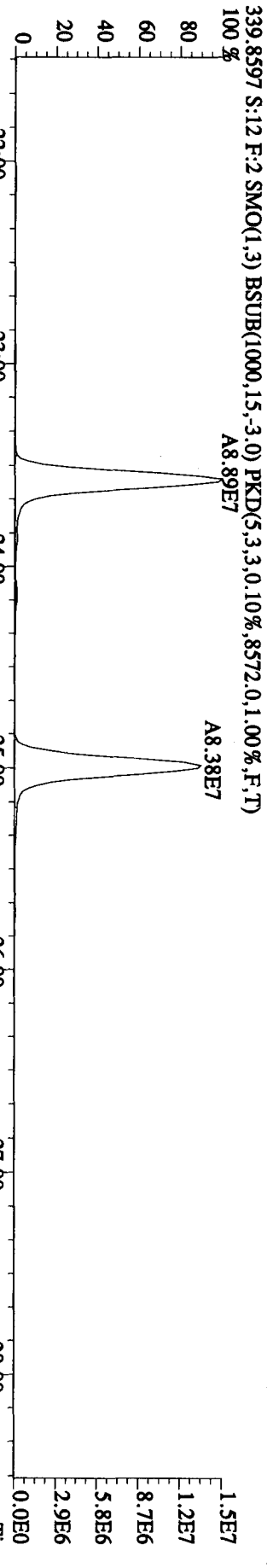
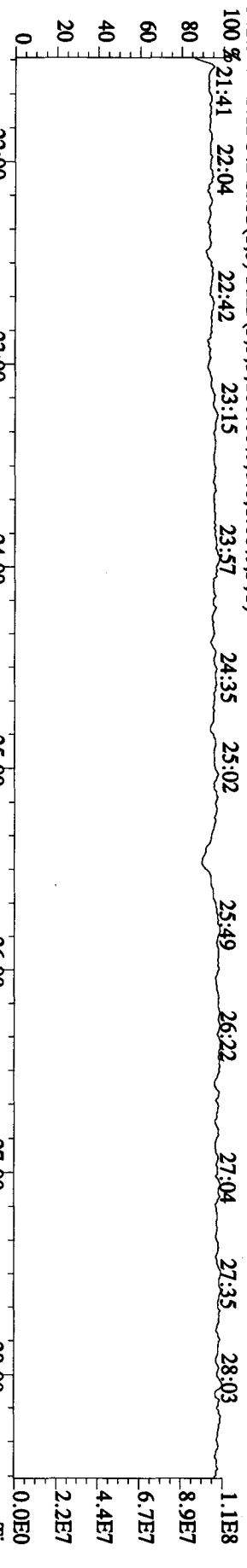


File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 22:02:37 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 457.7377 S:12 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,24048,0,1,00%,F,T)
 100 % A6.84E7

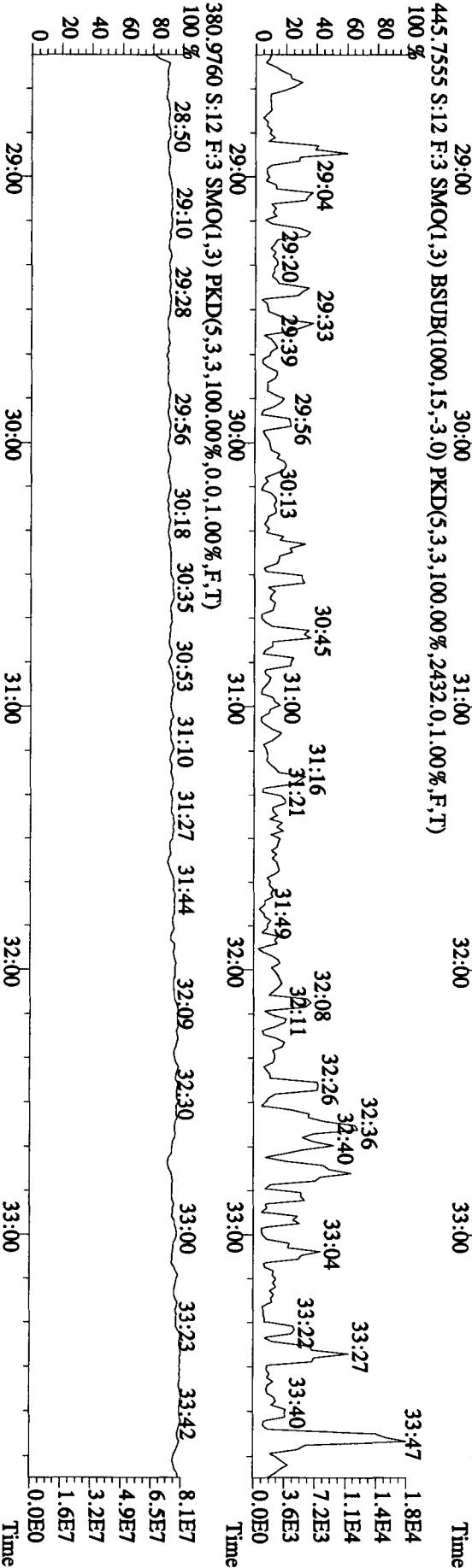
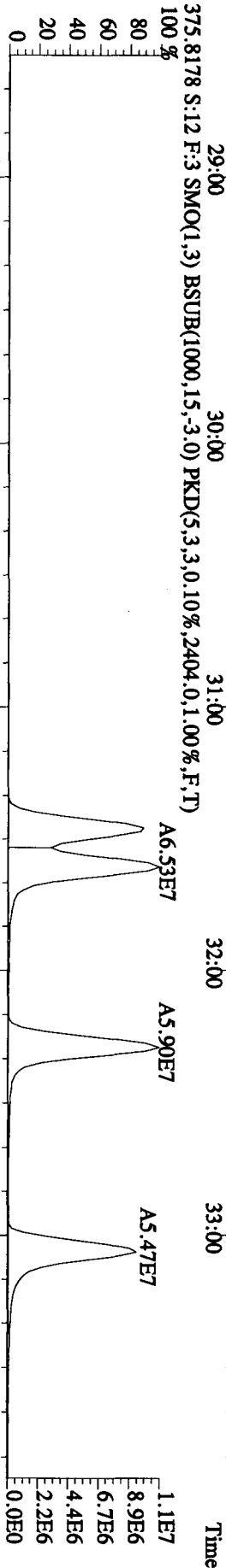
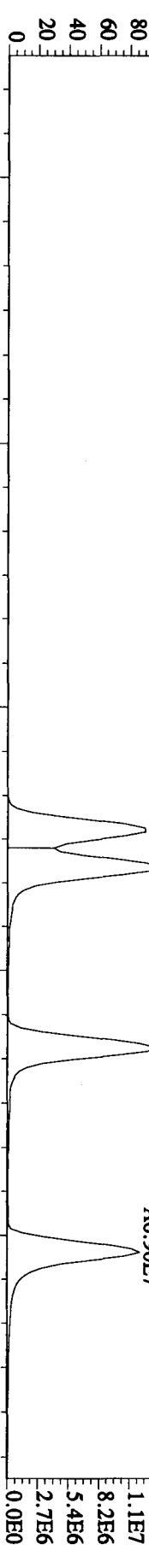
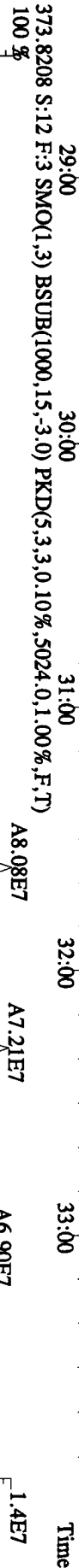
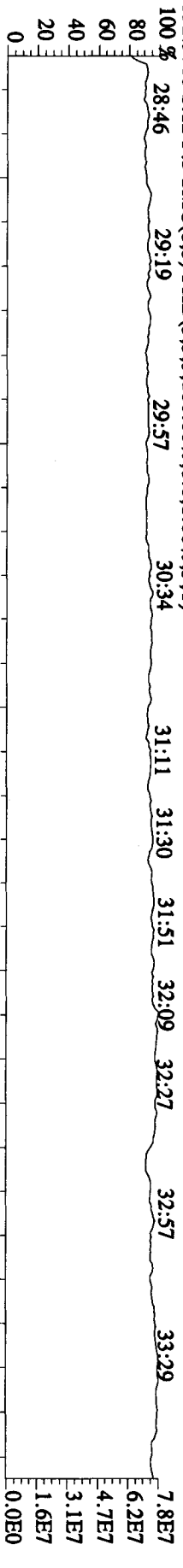




File:04JAI010AID5 #1-495 Acq: 4-JAN-2010 22:02:37 GC EI + Voltage SIR 70SE
 Sample#12 Tex:ST0104A :CS3 09DXN425 Exp:DIOXIN
 342.9792 S:12 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 21:41 22:04 22:42 23:15 23:57 24:35 25:02 25:49 26:22 27:04 27:35 28:03



File:04JAI0A1D5 #1-362 Acq: 4-JAN-2010 22:02:37 GC EI + Voltage SIR 70SE
 Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN
 392.9760 S:12 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 28:46 29:19 29:57 30:34 31:11 31:30 31:51 32:09 32:27 32:57 33:29

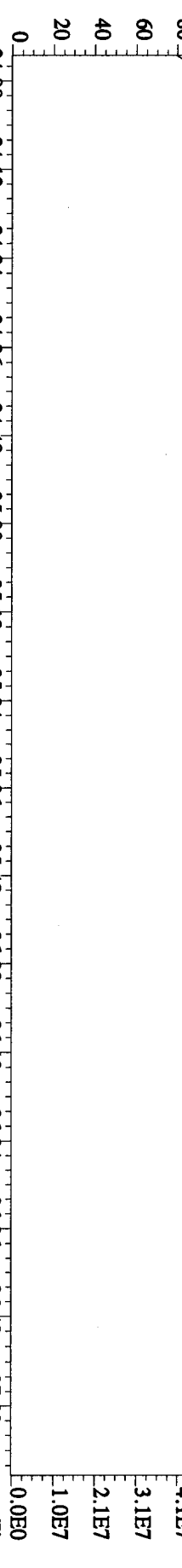


Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN

430.9728 S:12 F:4 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

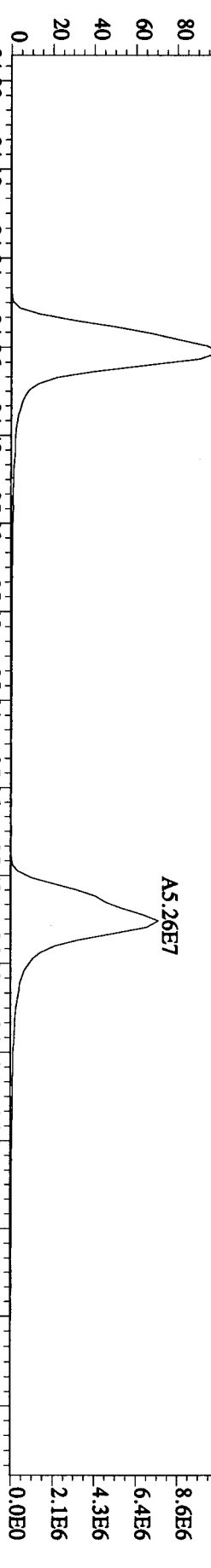
100 % 34:03 34:14 34:28 34:42 35:05 35:18

35:47 36:03 36:26 36:39 36:36



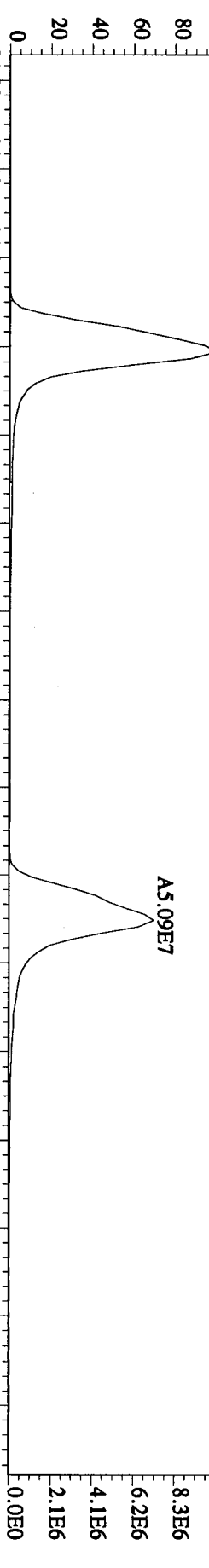
407.7818 S:12 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,15512.0,1.00%,F,T)

A6.44E7



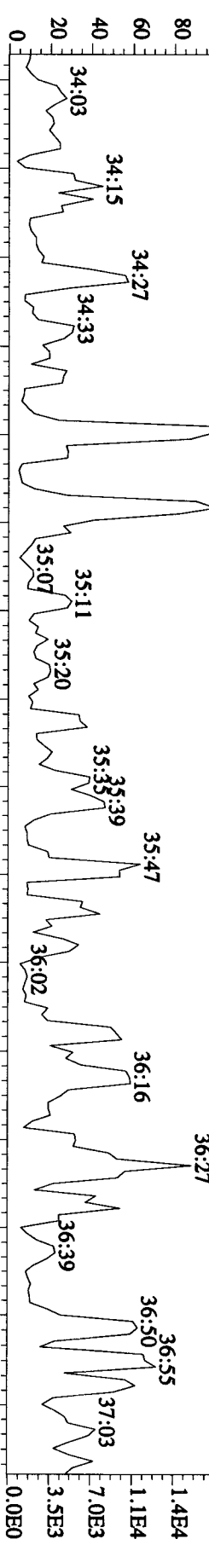
409.7789 S:12 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,20156.0,1.00%,F,T)

A5.26E7



479.7165 S:12 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,4856.0,1.00%,F,T)

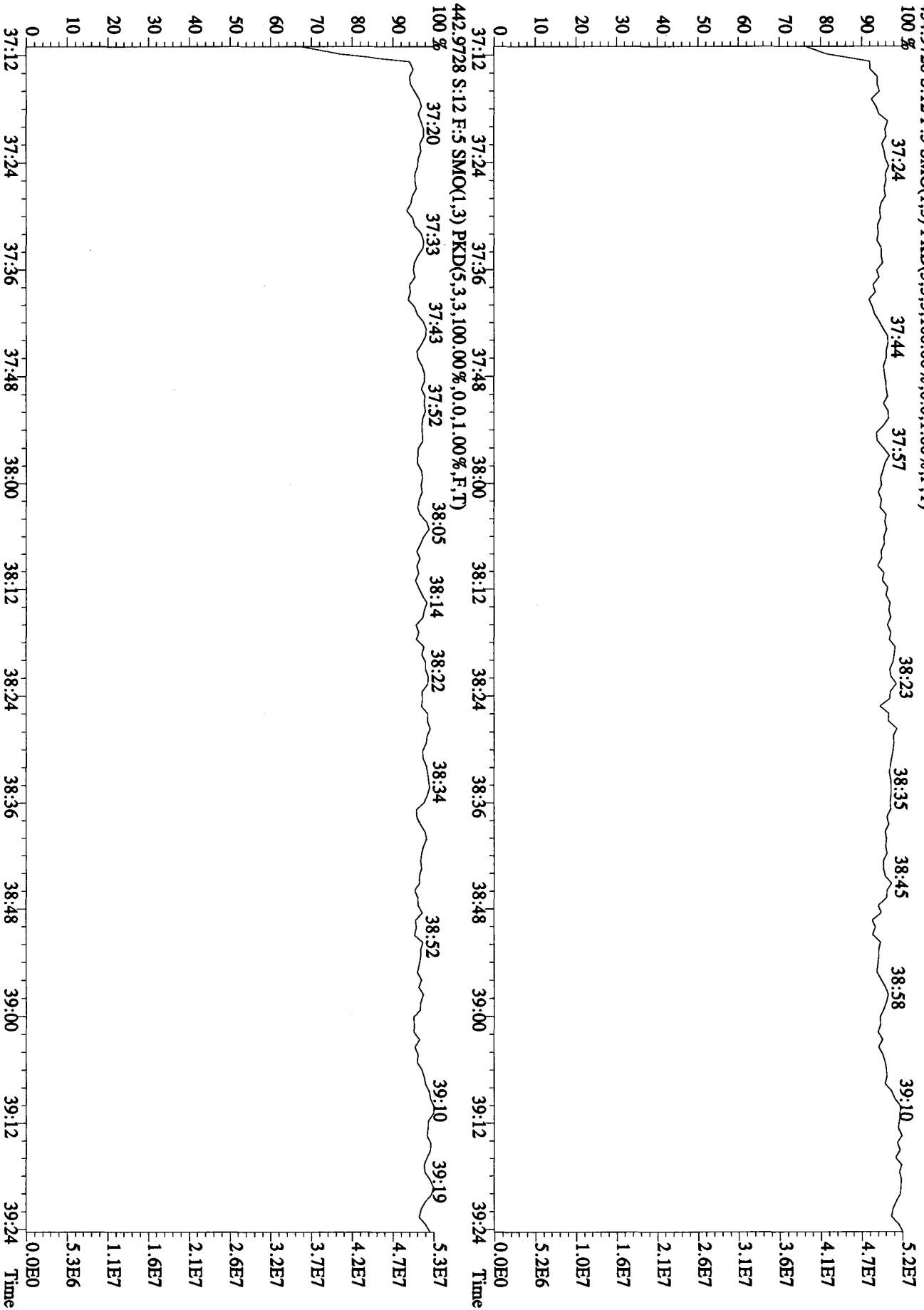
A6.14E7



File:04JA10A1D5 #1-161 Acq: 4-JAN-2010 22:02:37 GC EI+ Voltage SIR 70SE

Sample#12 Text:ST0104A :CS3 09DXN425 Exp:DIOXIN

454.9728 S:12 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



Daily Calibration Checklist Dioxin Methods

Method ID 8290

Associated ICAL 8290 091609405

Column ID DB5

Instrument ID 405

STD ID ST1222B, ST1222C

STD Solution 09DXN384

Analyzed by AM

Date Analyzed 12/22/09, 12/23/09

Std. Pkg. By AVP

Date Std. Pkg. Assembled 12/23/09

Std. Pkg. Reviewed By KSS

Date Std. Pkg. Reviewed 12/23/09

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?*	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS: _____

* Method 8290/TO9/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.

Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.

Method 23: See Method 23 Daily Standard Criteria, Table 5.

Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,

** Method 23/0023A CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet

Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1222B File text: CS3 09DXN384
 Run #6 Filename 22DE09A4D5 S: 1 I: 1
 Acquired: 22-DEC-09 21:26:07 Processed: 22-DEC-09 22:08:05
 Run: 22DE09A4D5 Analyte: 8290 Cal: 82900916094D5 Results: 22DE09A4D58290

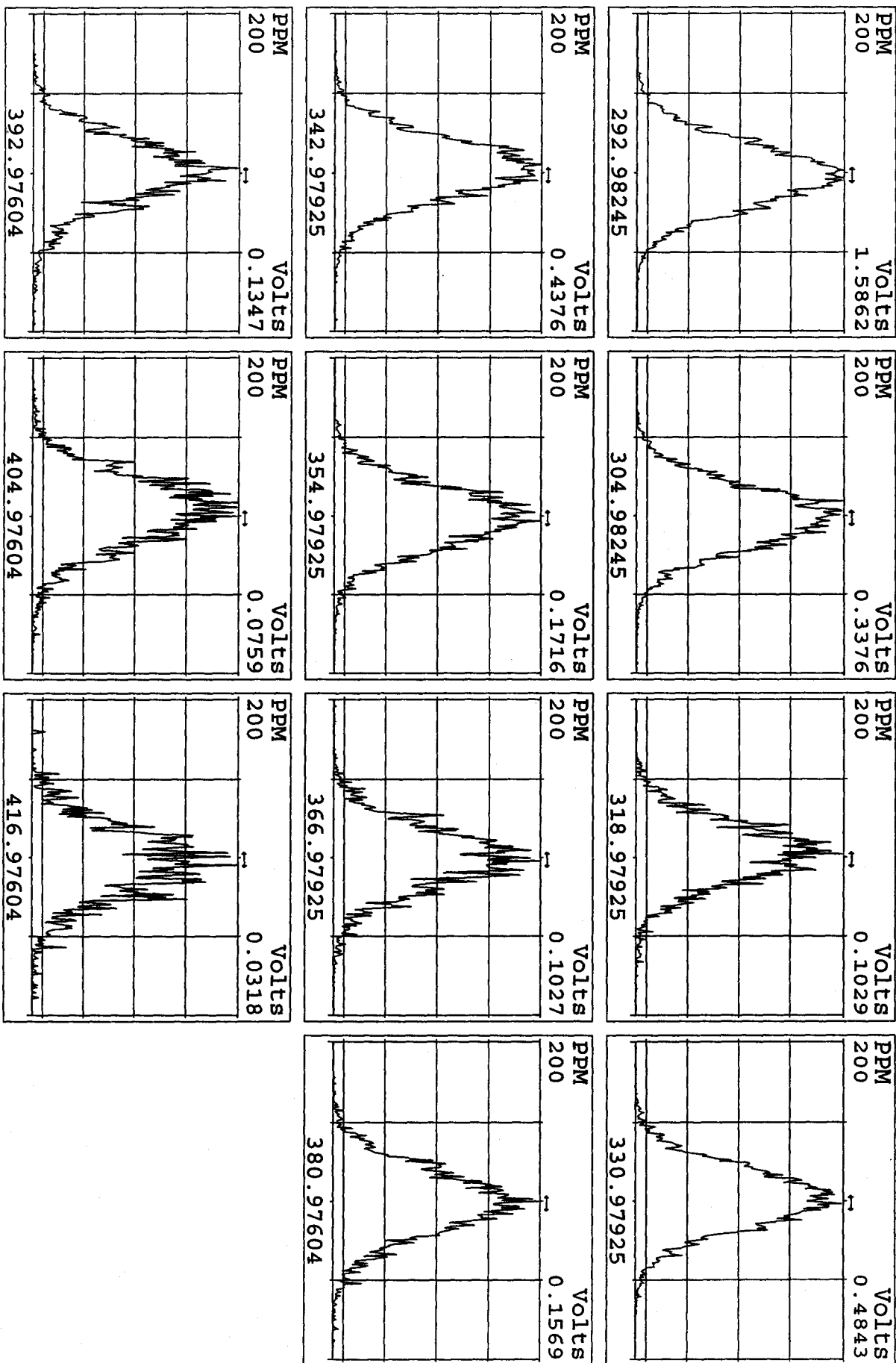
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	71497200	0.82 y	19:41	-	100.00	-	n
13C-2,3,7,8-TCDF	105807100	0.79 y	19:07	1.48	100.00	1.4	n
2,3,7,8-TCDF	13470810	0.79 y	19:08	1.27	10.00	0.0	n
Total TCDF	13813312	0.75 y	17:16	1.27	10.00	0.0	n
13C-2,3,7,8-TCDD	65427700	0.81 y	19:55	0.92	100.00	-0.8	n
2,3,7,8-TCDD	8263620	0.81 y	19:57	1.26	10.00	2.9	n
Total TCDD	8346556	2.28 n	16:45	1.26	10.00	2.9	n
37Cl-2,3,7,8-TCDD	18163860	1.00 y	19:57	2.54	10.00	1.0	n
13C-1,2,3,7,8-PeCDF	71255900	1.61 y	24:53	1.00	100.00	-21.3	n
1,2,3,7,8-PeCDF	47705200	1.55 y	24:55	1.34	50.00	2.9	n
2,3,4,7,8-PeCDF	45112000	1.56 y	26:26	1.27	50.00	1.3	n
Total F2 PeCDF	93507525	0.72 n	23:20	1.30	100.00	2.1	n
Total F1 PeCDF	68030	0.54 n	14:24	1.30	100.00	2.1	n
13C-1,2,3,7,8-PeCDD	41920300	1.55 y	27:14	0.59	100.00	-24.1	n
1,2,3,7,8-PeCDD	26155500	1.60 y	27:16	1.25	50.00	0.5	n
Total PeCDD	26259790	1.60 y	27:16	1.25	50.00	0.5	n
13C-1,2,3,7,8,9-HxCDD	48129600	1.30 y	33:14	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	54279700	0.52 y	32:06	1.13	100.00	-5.0	n
1,2,3,4,7,8-HxCDF	35152400	1.21 y	32:07	1.30	50.00	-0.9	n
1,2,3,6,7,8-HxCDF	43727900	1.24 y	32:14	1.61	50.00	14.1	n
2,3,4,6,7,8-HxCDF	39418400	1.24 y	32:46	1.45	50.00	8.9	n
1,2,3,7,8,9-HxCDF	31621200	1.18 y	33:25	1.17	50.00	-2.5	n
Total HxCDF	150367386	1.02 n	31:02	1.38	200.00	5.2	n
13C-1,2,3,6,7,8-HxCDD	37218400	1.30 y	32:57	0.77	100.00	3.6	n
1,2,3,4,7,8-HxCDD	21769650	1.22 y	32:54	1.17	50.00	-5.8	n
1,2,3,6,7,8-HxCDD	28872800	1.27 y	32:58	1.55	50.00	4.9	n
1,2,3,7,8,9-HxCDD	27494700	1.23 y	33:15	1.48	50.00	0.3	n
Total HxCDD	78137150	1.22 y	32:54	1.40	150.00	0.1	n
13C-1,2,3,4,6,7,8-HpCDF	44773400	0.43 y	34:45	0.93	100.00	1.8	n
1,2,3,4,6,7,8-HpCDF	35387100	1.03 y	34:45	1.58	50.00	-0.9	n
1,2,3,4,7,8,9-HpCDF	25979300	1.02 y	35:54	1.16	50.00	-12.8	n
Total HpCDF	61366400	1.03 y	34:45	1.37	100.00	-6.3	n
13C-1,2,3,4,6,7,8-HpCDD	34362800	1.07 y	35:34	0.71	100.00	0.0	n
1,2,3,4,6,7,8-HpCDD	22660900	1.04 y	35:34	1.32	50.00	0.9	n
Total HpCDD	22844284	1.14 y	35:00	1.32	50.00	0.9	n
13C-OCDD	55030700	0.89 y	38:05	0.57	200.00	-5.6	n
OCDF	41791900	0.89 y	38:13	1.52	100.00	0.6	n
OCDD	32954500	0.94 y	38:06	1.20	100.00	0.3	n

Run text: ST1222C File text: ST1222C :CS3 09DXN384
 Run #18 Filename 22DE09A4D5 S: 15 I: 1
 Acquired: 23-DEC-09 07:42:38 Processed: 23-DEC-09 08:38:26
 Run: 22DE09A4D5 Analyte: 8290 Cal: 82900916094D5 Results: 22DE09A4D58290

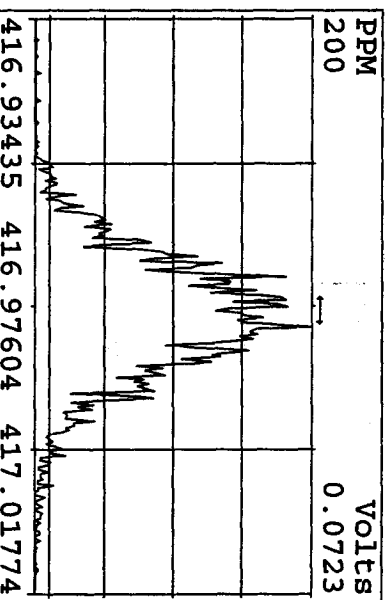
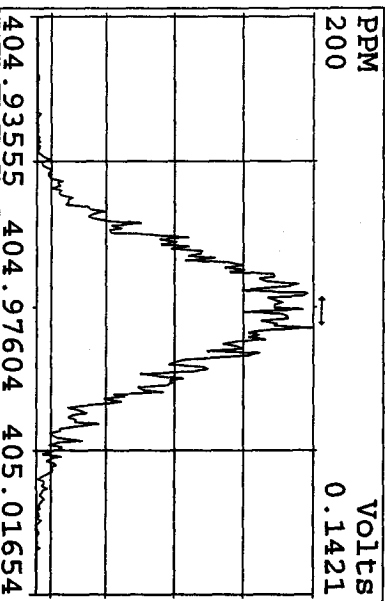
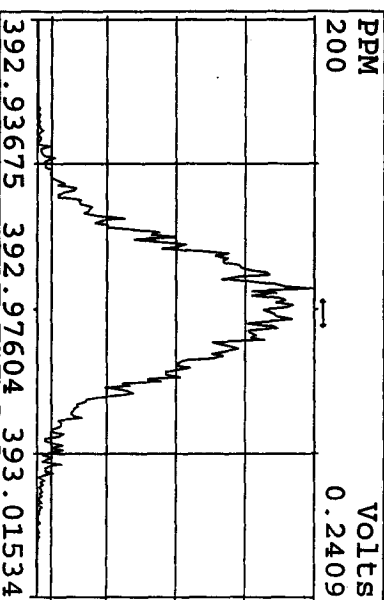
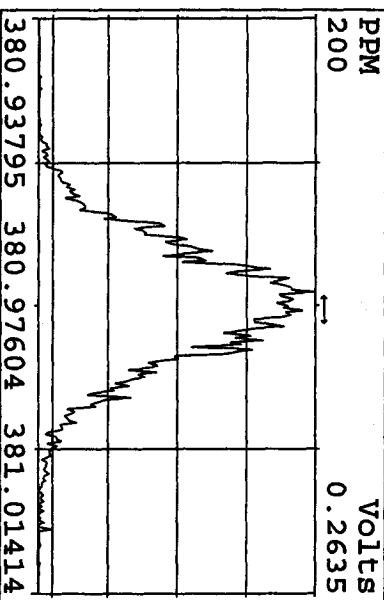
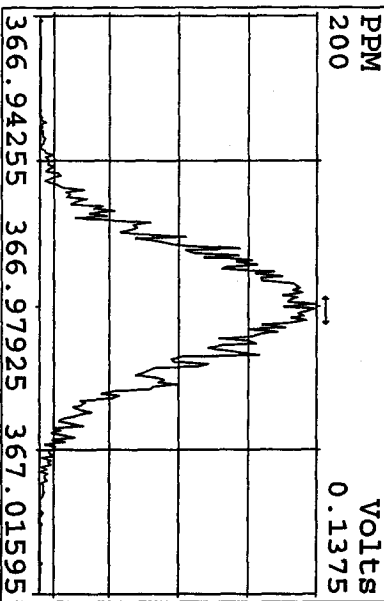
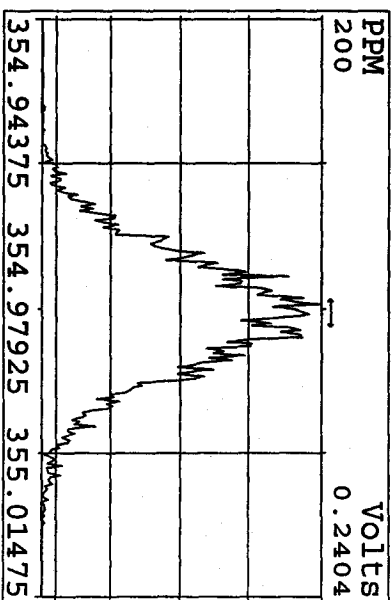
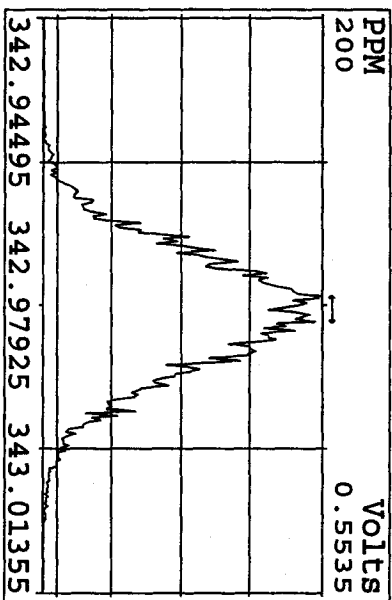
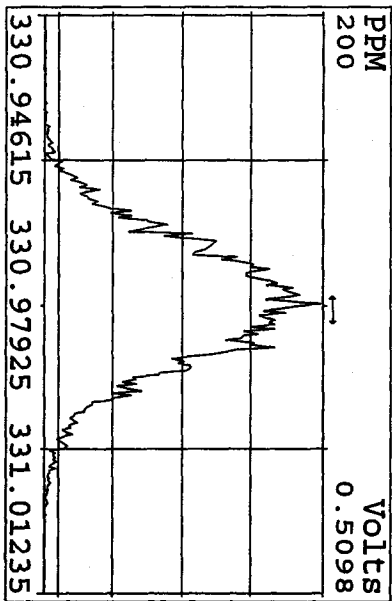
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	77279476	0.80 y	19:41	-	100.00	-	n
13C-2,3,7,8-TCDF	116738004	0.81 y	19:07	1.51	100.00	3.6	n
2,3,7,8-TCDF	14379391	0.81 y	19:08	1.23	10.00	-3.3	n
Total TCDF	14526761	1.11 n	18:10	1.23	10.00	-3.3	n
13C-2,3,7,8-TCDD	72077092	0.79 y	19:54	0.93	100.00	1.1	n
2,3,7,8-TCDD	8983415	0.80 y	19:56	1.25	10.00	1.6	n
Total TCDD	9172572	0.61 n	15:53	1.25	10.00	1.6	n
37Cl-2,3,7,8-TCDD	19659852	1.00 y	19:56	2.54	10.00	1.1	n
13C-1,2,3,7,8-PeCDF	77960100	1.58 y	24:53	1.01	100.00	-20.4	n
1,2,3,7,8-PeCDF	54131236	1.55 y	24:54	1.39	50.00	6.7	n
2,3,4,7,8-PeCDF	51391876	1.54 y	26:26	1.32	50.00	5.5	n
Total F2 PeCDF	106160963	0.37 n	23:19	1.35	100.00	6.1	n
Total F1 PeCDF	54480	0.86 n	14:15	1.35	100.00	6.1	n
13C-1,2,3,7,8-PeCDD	47017500	1.61 y	27:14	0.61	100.00	-21.2	n
1,2,3,7,8-PeCDD	29233530	1.57 y	27:16	1.24	50.00	0.2	n
Total PeCDD	29242908	1.57 y	27:16	1.24	50.00	0.2	n
13C-1,2,3,7,8,9-HxCDD	57758422	1.34 y	33:14	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	63950090	0.54 y	32:05	1.11	100.00	-6.7	n
1,2,3,4,7,8-HxCDF	42835596	1.30 y	32:06	1.34	50.00	2.5	n
1,2,3,6,7,8-HxCDF	50779446	1.17 y	32:13	1.59	50.00	12.5	n
2,3,4,6,7,8-HxCDF	49586404	1.24 y	32:46	1.55	50.00	16.2	n
1,2,3,7,8,9-HxCDF	40714274	1.26 y	33:25	1.27	50.00	6.5	n
Total HxCDF	184015804	1.19 y	31:03	1.44	200.00	9.6	n
13C-1,2,3,6,7,8-HxCDD	45356632	1.33 y	32:57	0.79	100.00	5.2	n
1,2,3,4,7,8-HxCDD	28228458	1.26 y	32:54	1.24	50.00	0.2	n
1,2,3,6,7,8-HxCDD	36466976	1.27 y	32:58	1.61	50.00	8.7	n
1,2,3,7,8,9-HxCDD	33578633	1.24 y	33:14	1.48	50.00	0.5	n
Total HxCDD	98274067	1.26 y	32:54	1.44	150.00	3.3	n
13C-1,2,3,4,6,7,8-HpCDF	53702387	0.43 y	34:44	0.93	100.00	1.8	n
1,2,3,4,6,7,8-HpCDF	42114418	1.02 y	34:45	1.57	50.00	-1.7	n
1,2,3,4,7,8,9-HpCDF	30919934	1.02 y	35:53	1.15	50.00	-13.5	n
Total HpCDF	73428185	1.02 y	34:45	1.36	100.00	-7.0	n
13C-1,2,3,4,6,7,8-HpCDD	39468532	1.05 y	35:33	0.68	100.00	-4.3	n
1,2,3,4,6,7,8-HpCDD	26329513	1.06 y	35:34	1.33	50.00	2.1	n
Total HpCDD	26529267	1.07 y	35:00	1.33	50.00	2.1	n
13C-OCDD	62619752	0.90 y	38:05	0.54	200.00	-10.5	n
OCDF	48465264	0.91 y	38:12	1.55	100.00	2.6	n
OCDD	37485478	0.92 y	38:06	1.20	100.00	0.3	n

data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
22DE09A4D5	1	ST1222B	CS3 09DXN384				1.00000	
22DE09A4D5	2	CP1222A	DB-5 CPSM 3732-03				1.00000	
22DE09A4D5	3	SB1222C	Solvent Blank C-14				1.00000	
22DE09A4D5	4	LRF9L-1-AA	G9L210000-435B ✓	10	8290/SOLID	70	10.00000	g
22DE09A4D5	5	LRF9L-1-AC	G9L210000-435C ✓	10	8290/SOLID		10.00000	g
22DE09A4D5	6	LQ023-2-AC	G9L110588-22RX	10	8290/SOLID		10.31000	g
22DE09A4D5	7	LQ024-2-AC	G9L110588-23RX	10	8290/SOLID		10.16000	g
22DE09A4D5	8	LQ027-2-AC	G9L110588-25RX	10	8290/SOLID		10.15000	g
22DE09A4D5	9	LQ2K5-2-AC	G9L120491-1RX ✓	10	8290/SOLID		10.02000	g
22DE09A4D5	10	LQ2K7-2-AC	G9L120491-2RX ✓	10	8290/SOLID		10.04000	g
22DE09A4D5	11	LQ2K8-2-AC	G9L120491-3RX ✓	10	8290/SOLID		10.41000	g
22DE09A4D5	12	LQ2K9-2-AC	G9L120491-4RX ✓	10	8290/SOLID		10.40000	g
22DE09A4D5	13	LQ2LA-2-AC	G9L120491-5RX ✓	10	8290/SOLID		10.19000	g
22DE09A4D5	14	SB1222D	Solvent Blank C-14				1.00000	
22DE09A4D5	15	ST1222C	CS3 09DXN384				1.00000	
22DE09A4D5	16						1.00000	
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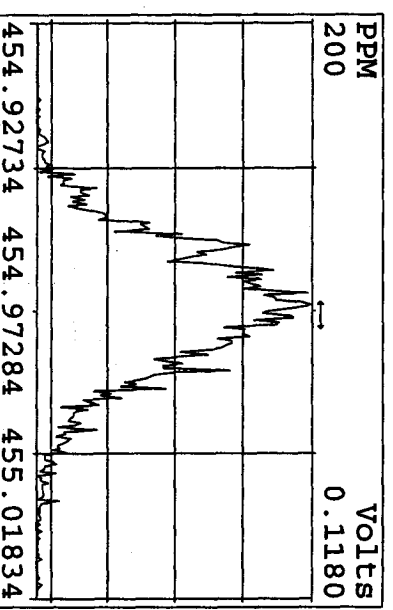
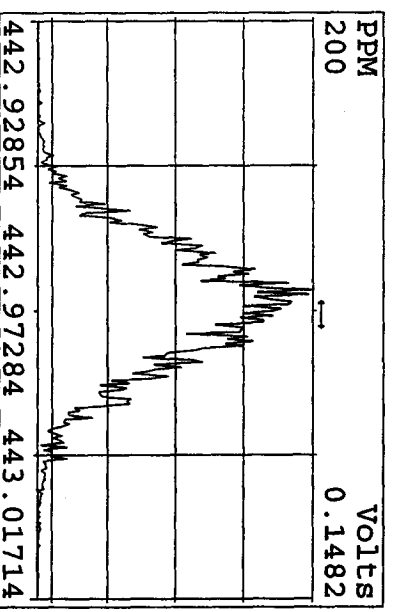
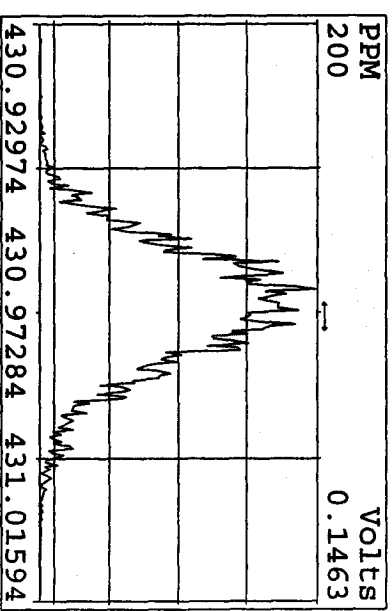
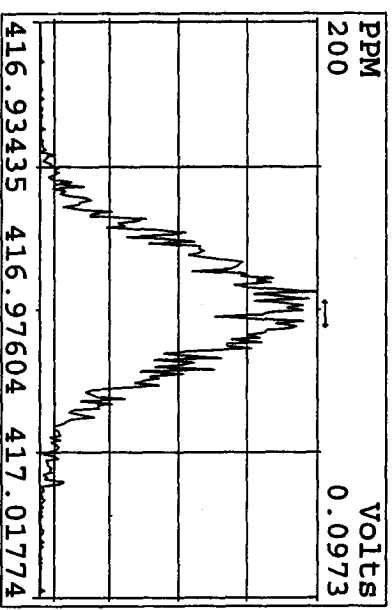
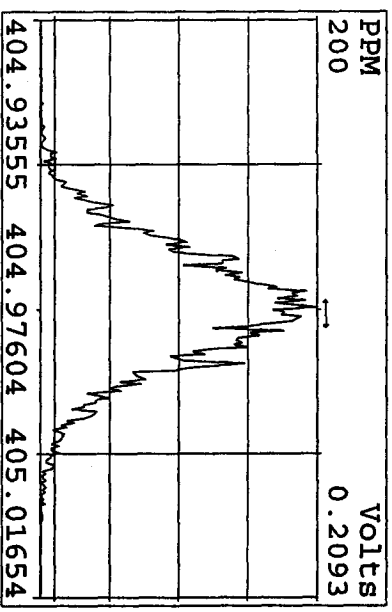
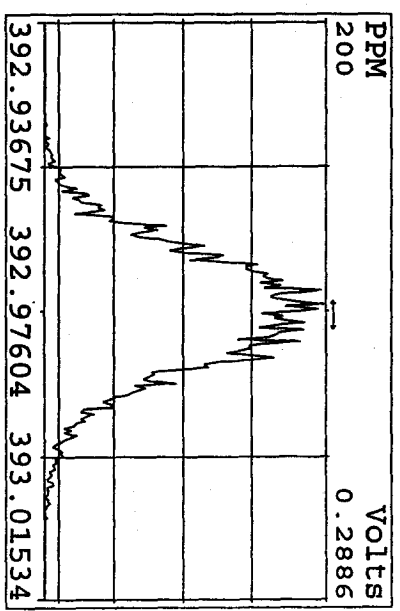
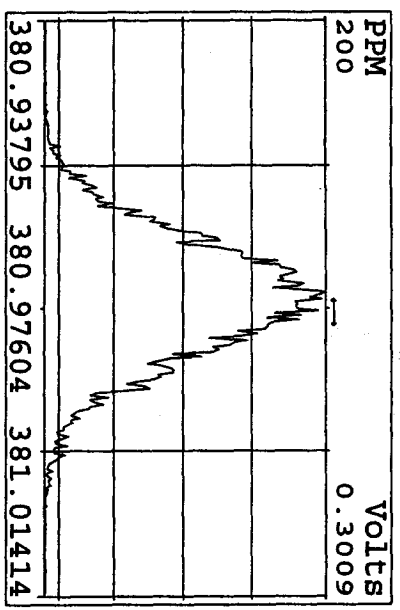
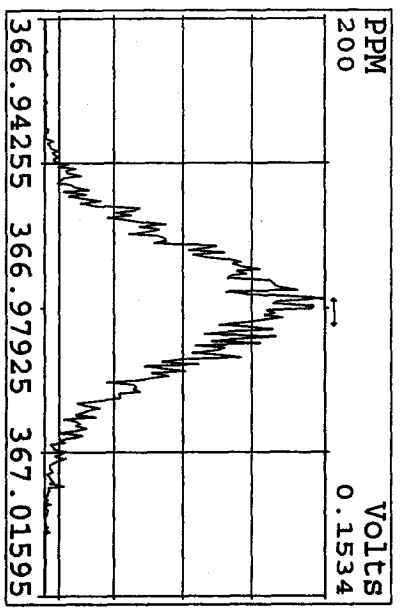
Peak Locate Examination: 22-DEC-2009: 21:14 File: 22DE09A4D5
Experiment: DIOXIN Function: 1 Reference: PFK



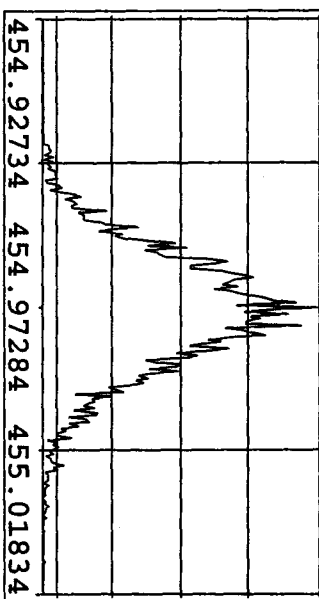
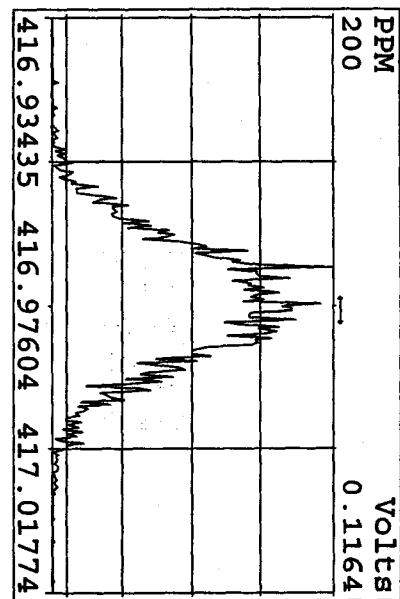
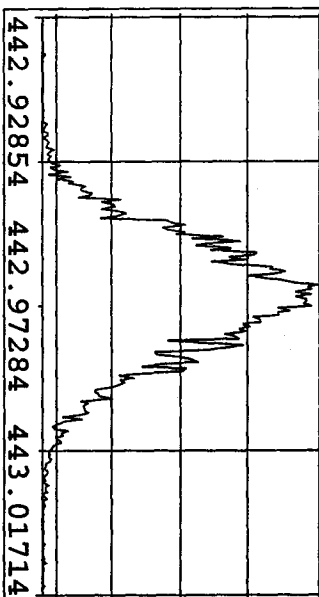
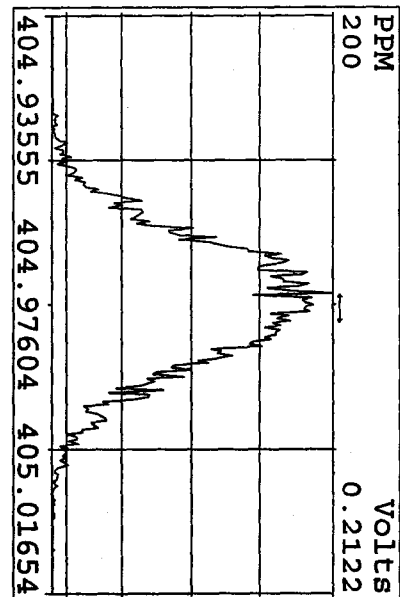
Peak Locate Examination: 22-DEC-2009: 21:17 File: 22DE09A4D5
 Experiment: DIOXIN Function: 2 Reference: PFK



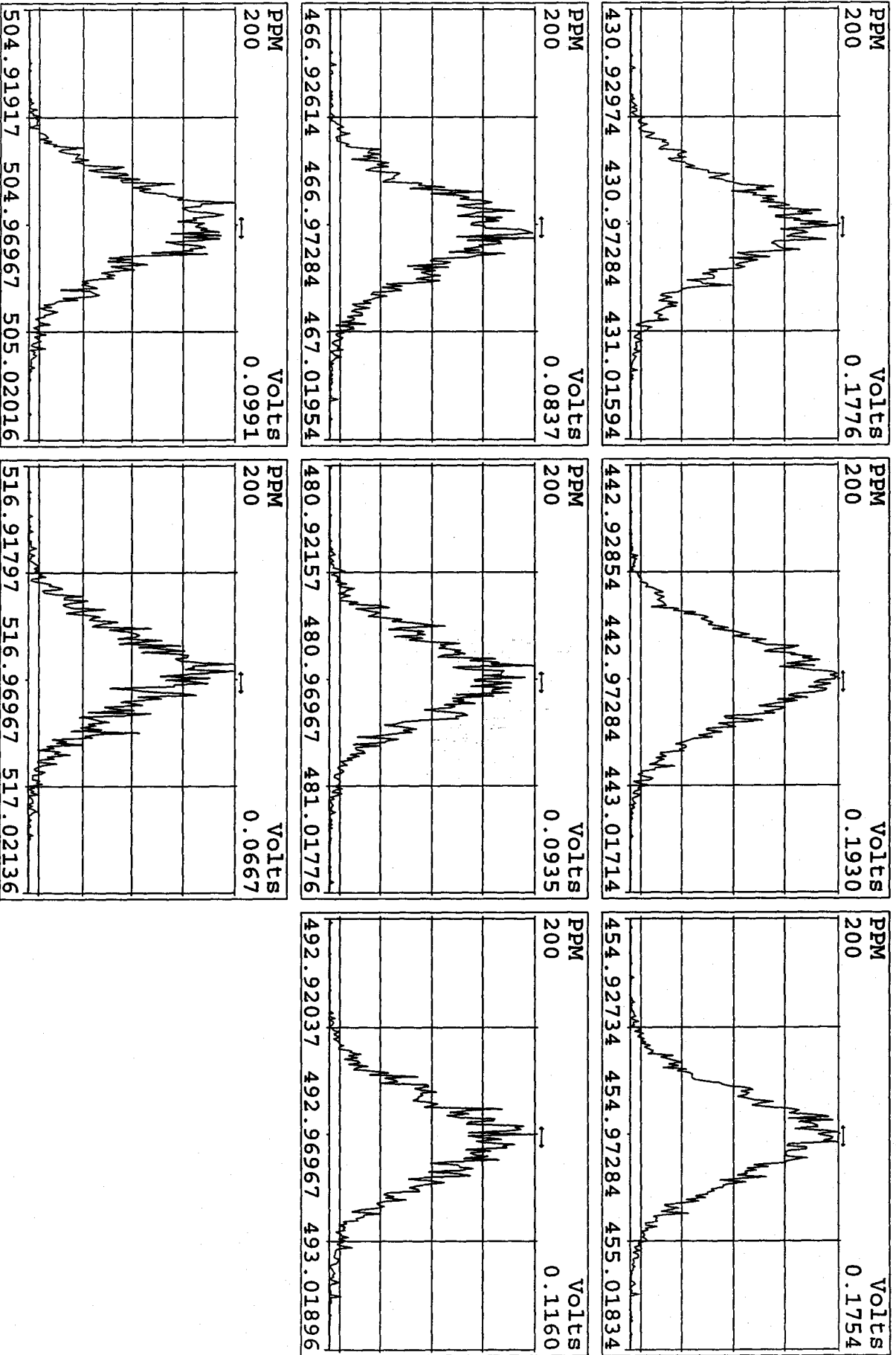
Peak Locate Examination: 22-DEC-2009: 21:19 File: 22DE09A4D5
 Experiment: DIOXIN Function: 3 Reference: PFK



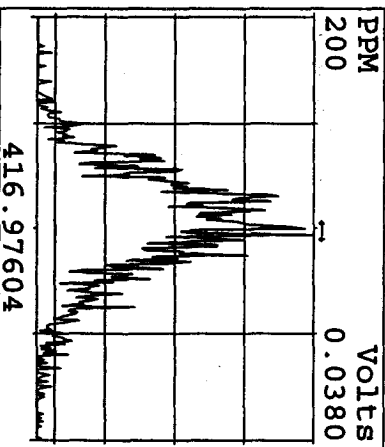
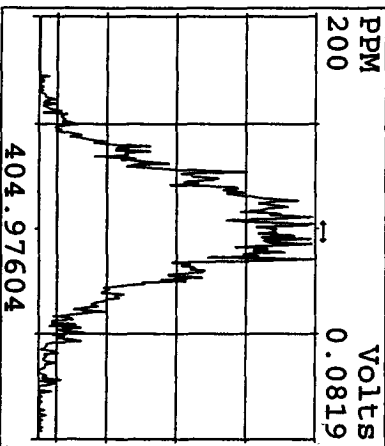
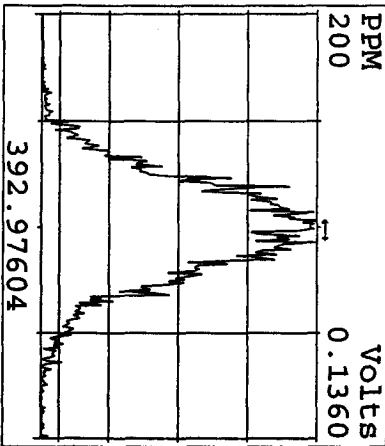
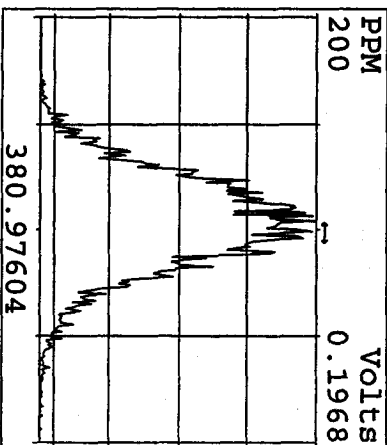
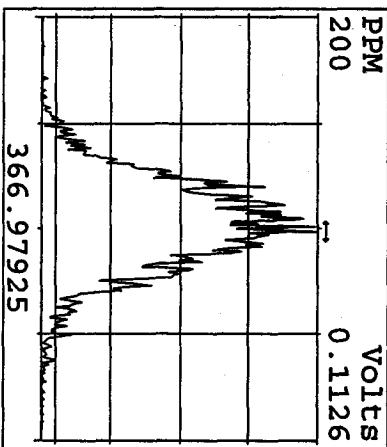
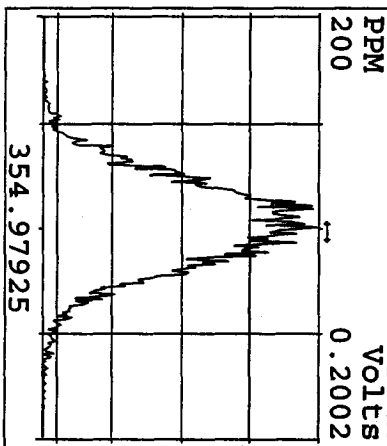
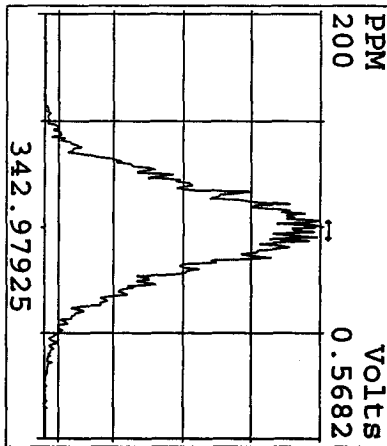
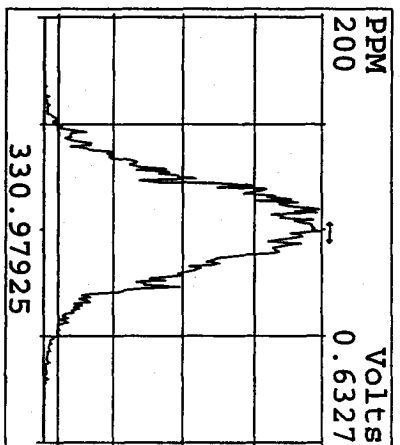
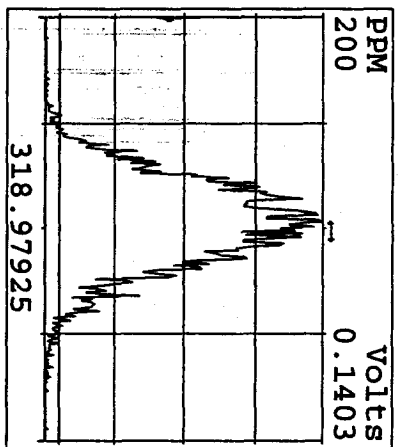
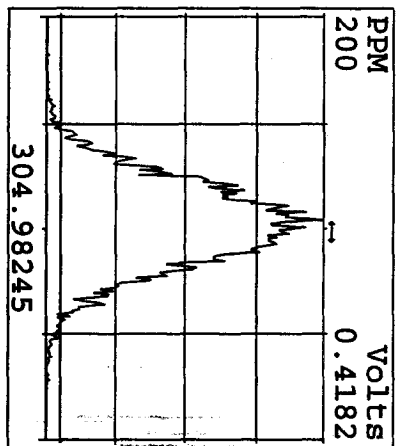
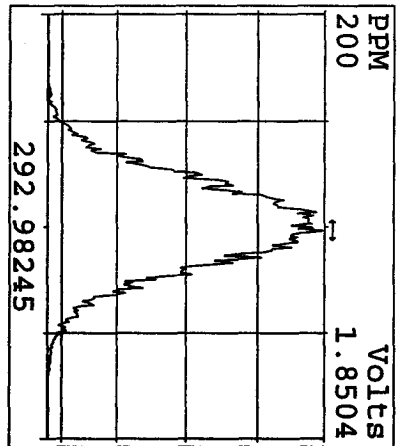
Peak Locate Examination: 22-DEC-2009:21:22 File: 22DE09A4D5
 Experiment: DIOXIN Function: 4 Reference: PRK



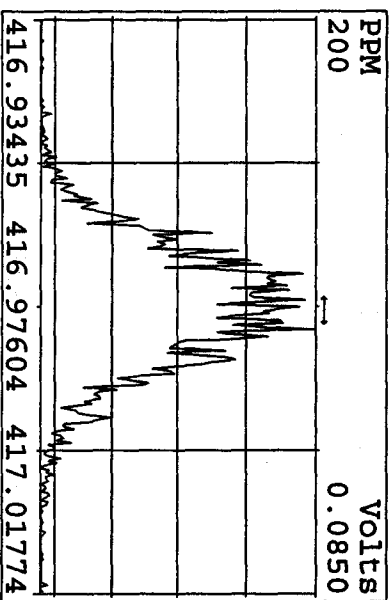
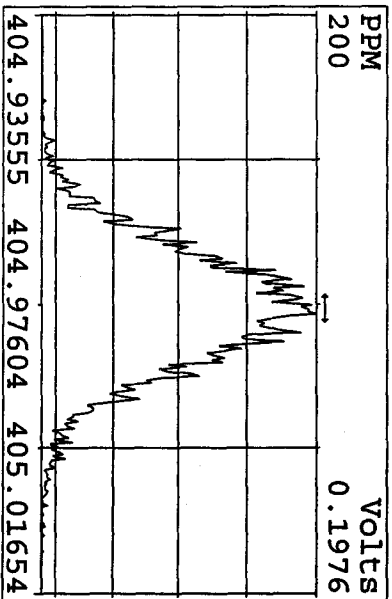
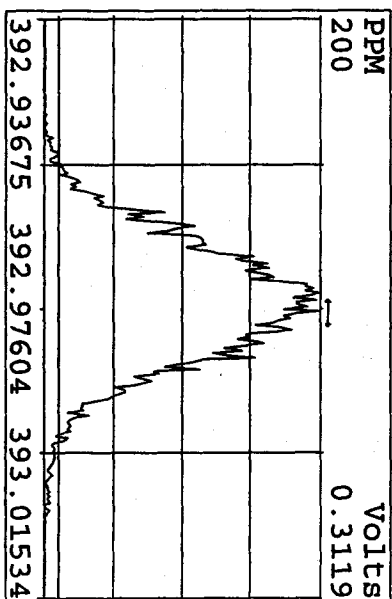
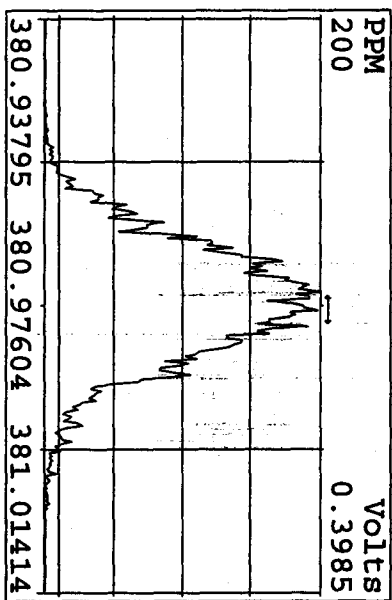
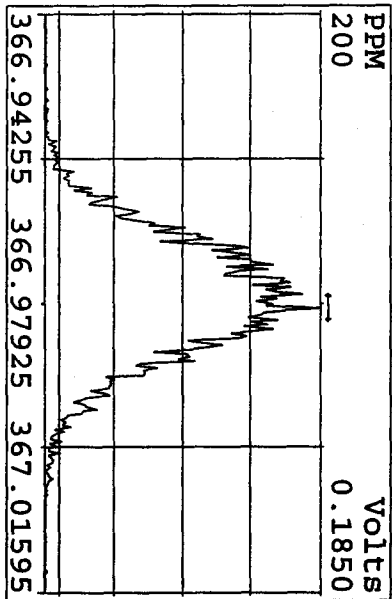
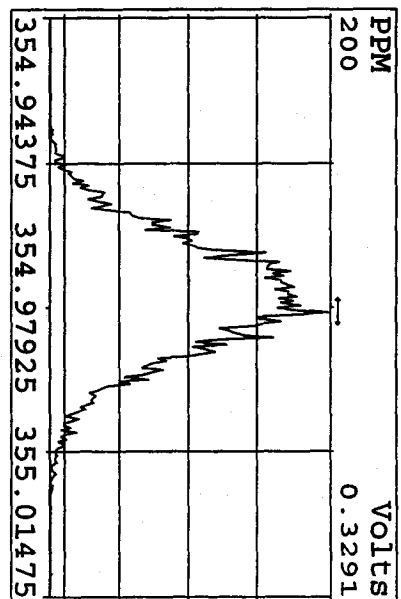
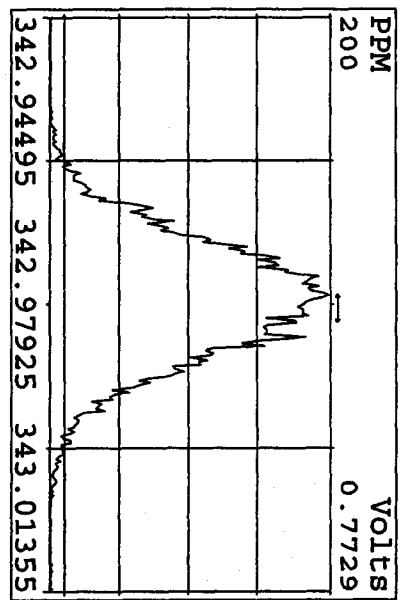
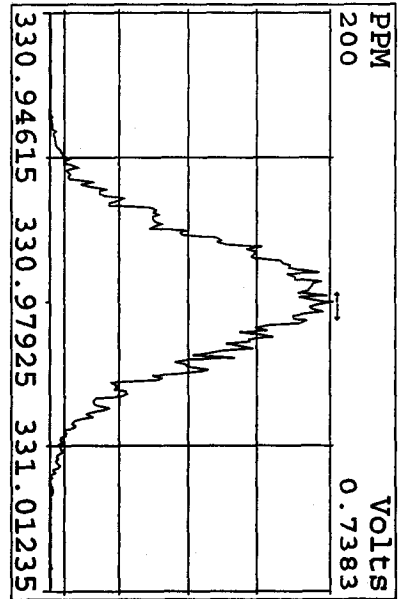
Peak Locate Examination: 22-DEC-2009: 21:25 File: 22DE09A4D5
 Experiment: DIOXIN Function: 5 Reference: PFK



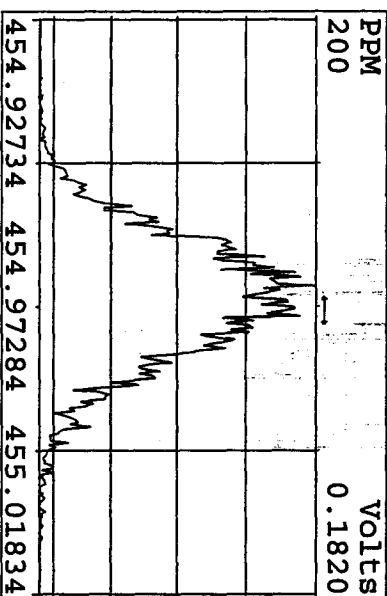
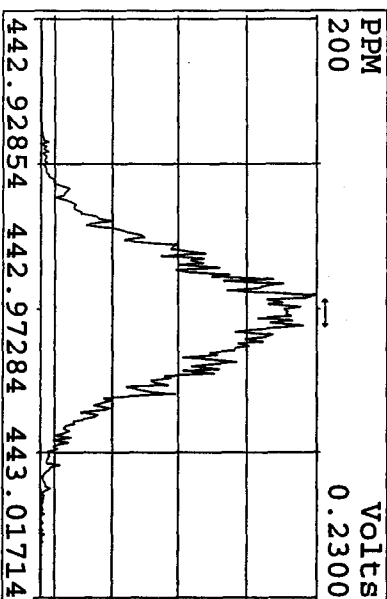
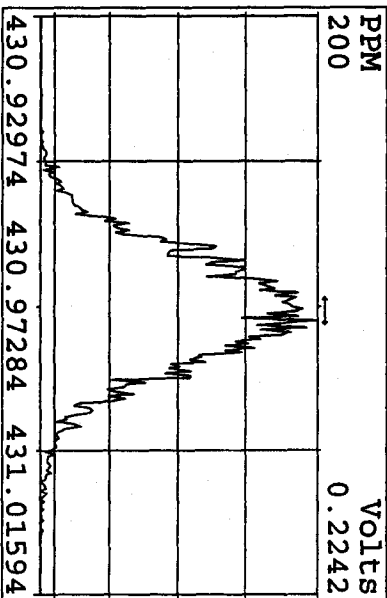
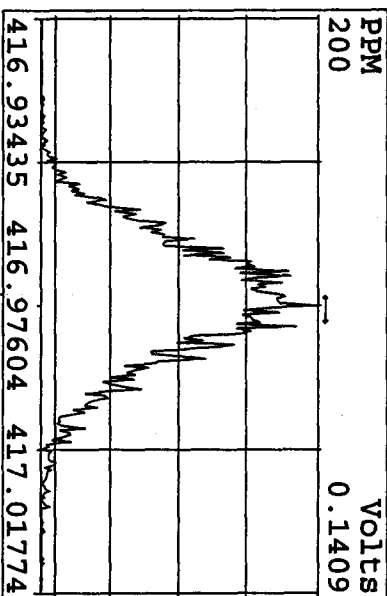
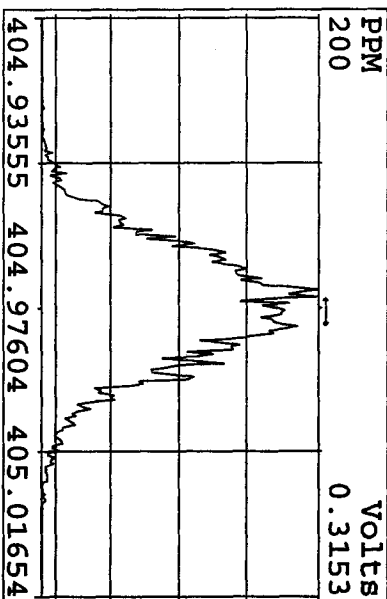
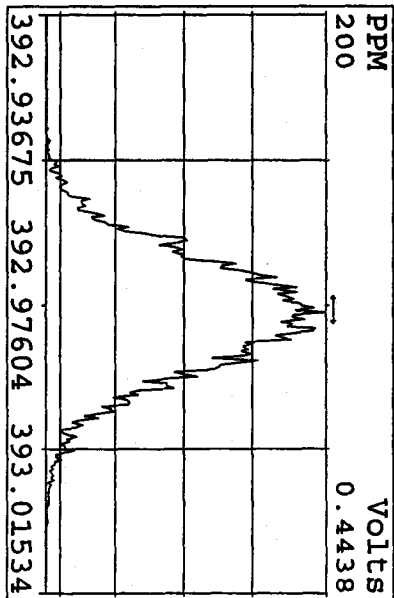
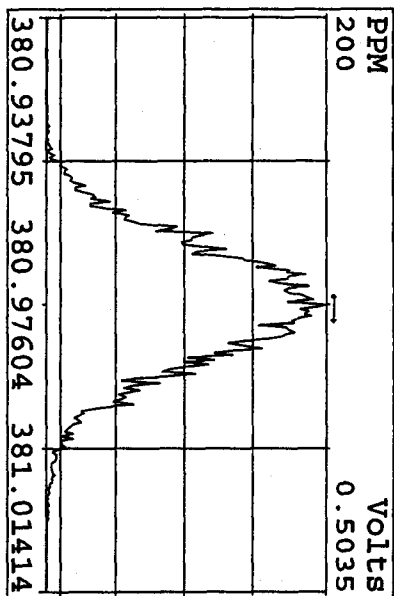
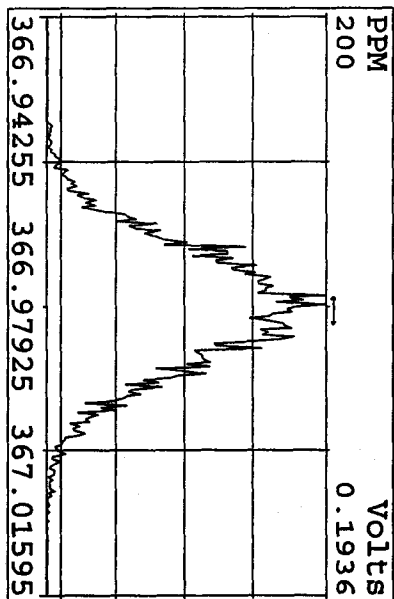
Peak Locate Examination:23-DEC-2009:08:41 File:ENDRES22DE09A4D5
Experiment:DIOXIN Function:1 Reference:PRK



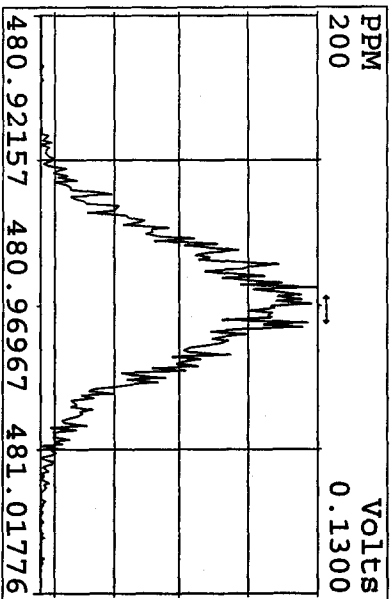
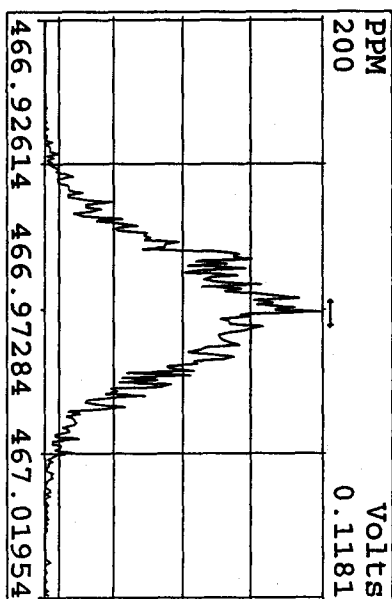
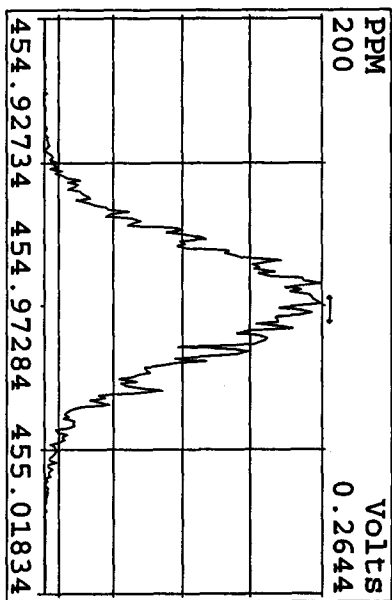
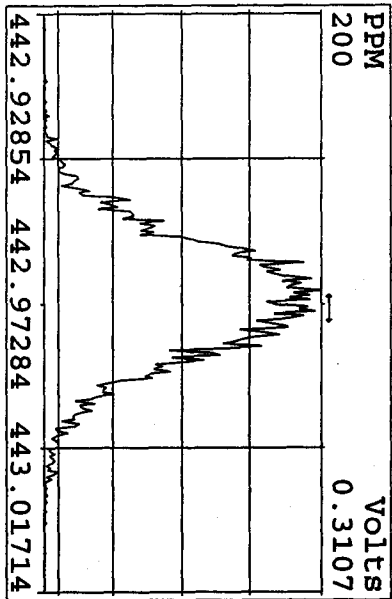
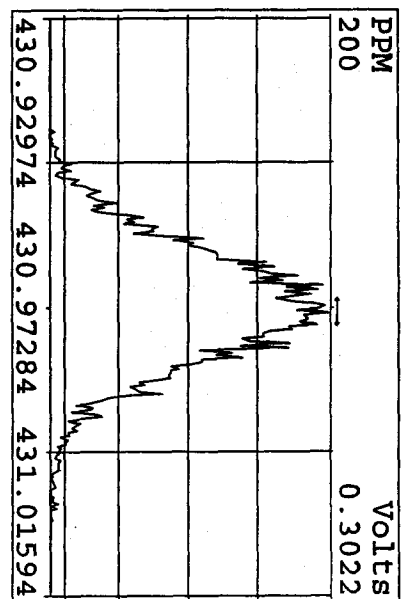
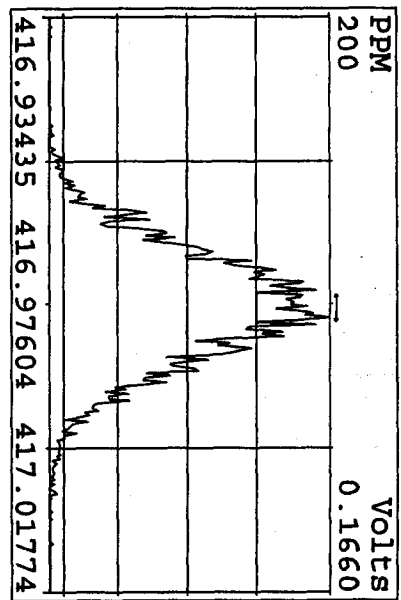
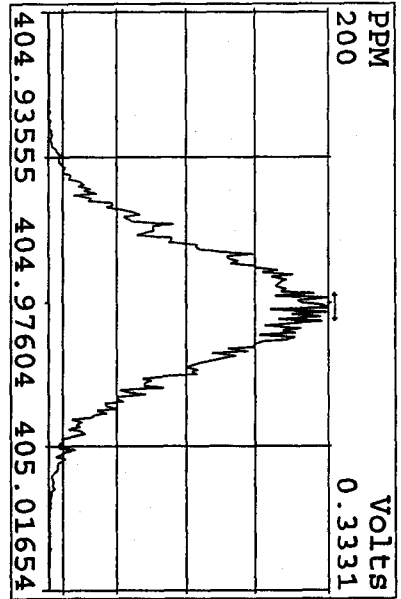
Peak Locate Examination: 23-DEC-2009: 08:42 File: ENDRES22DFE09A4D5
 Experiment: DIOXIN Function: 2 Reference: PFK



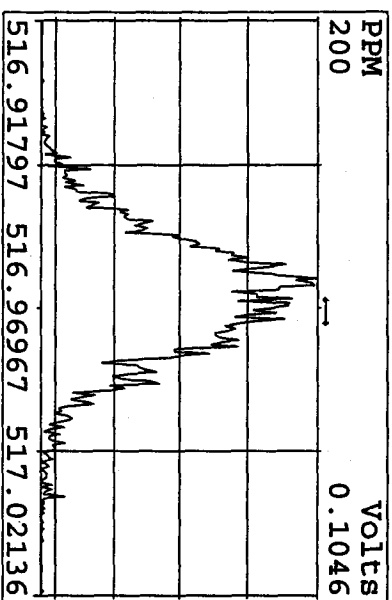
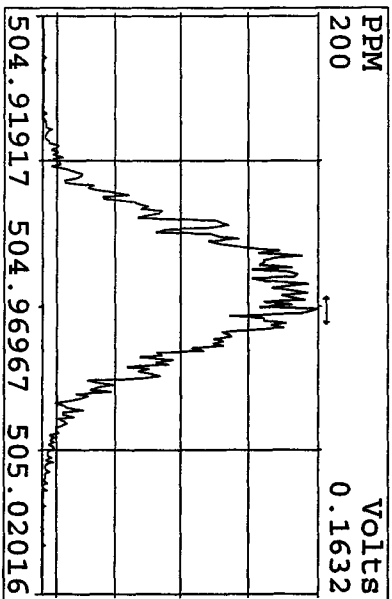
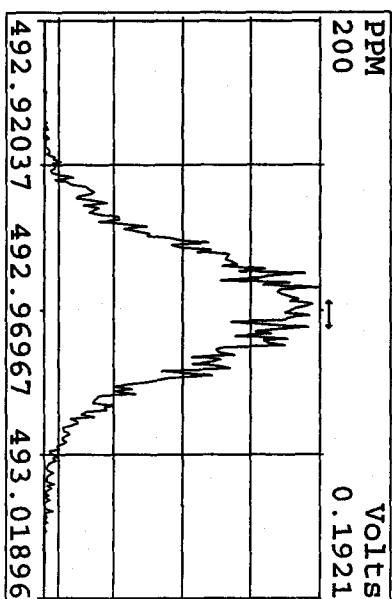
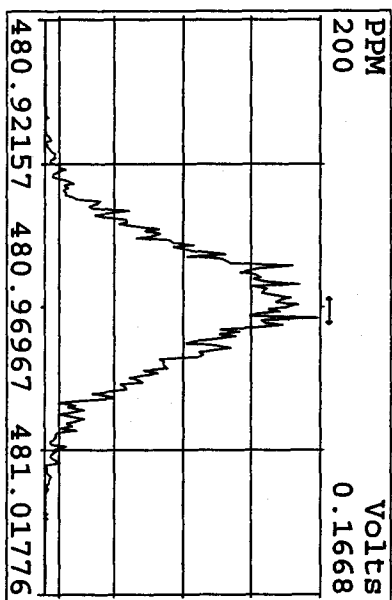
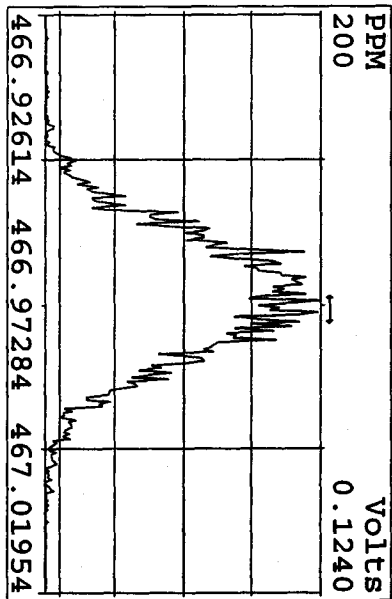
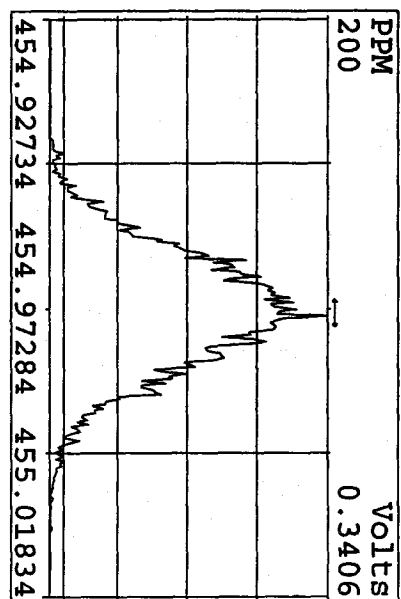
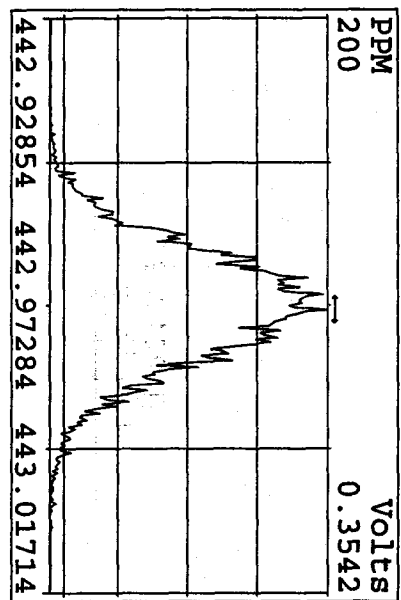
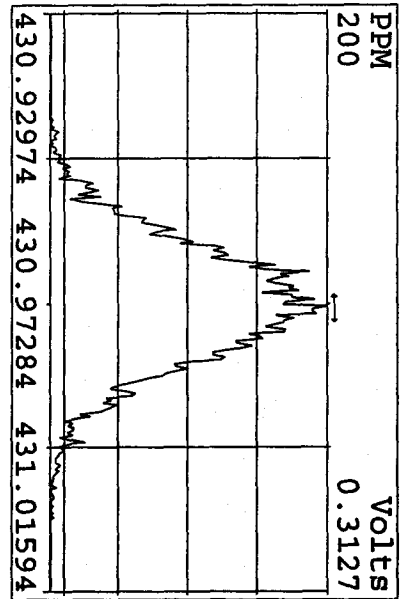
Peak Locate Examination: 23-DEC-2009:08:42 File: ENDRES22DE09A4D5
 Experiment: DIOXIN Function: 3 Reference: PFK



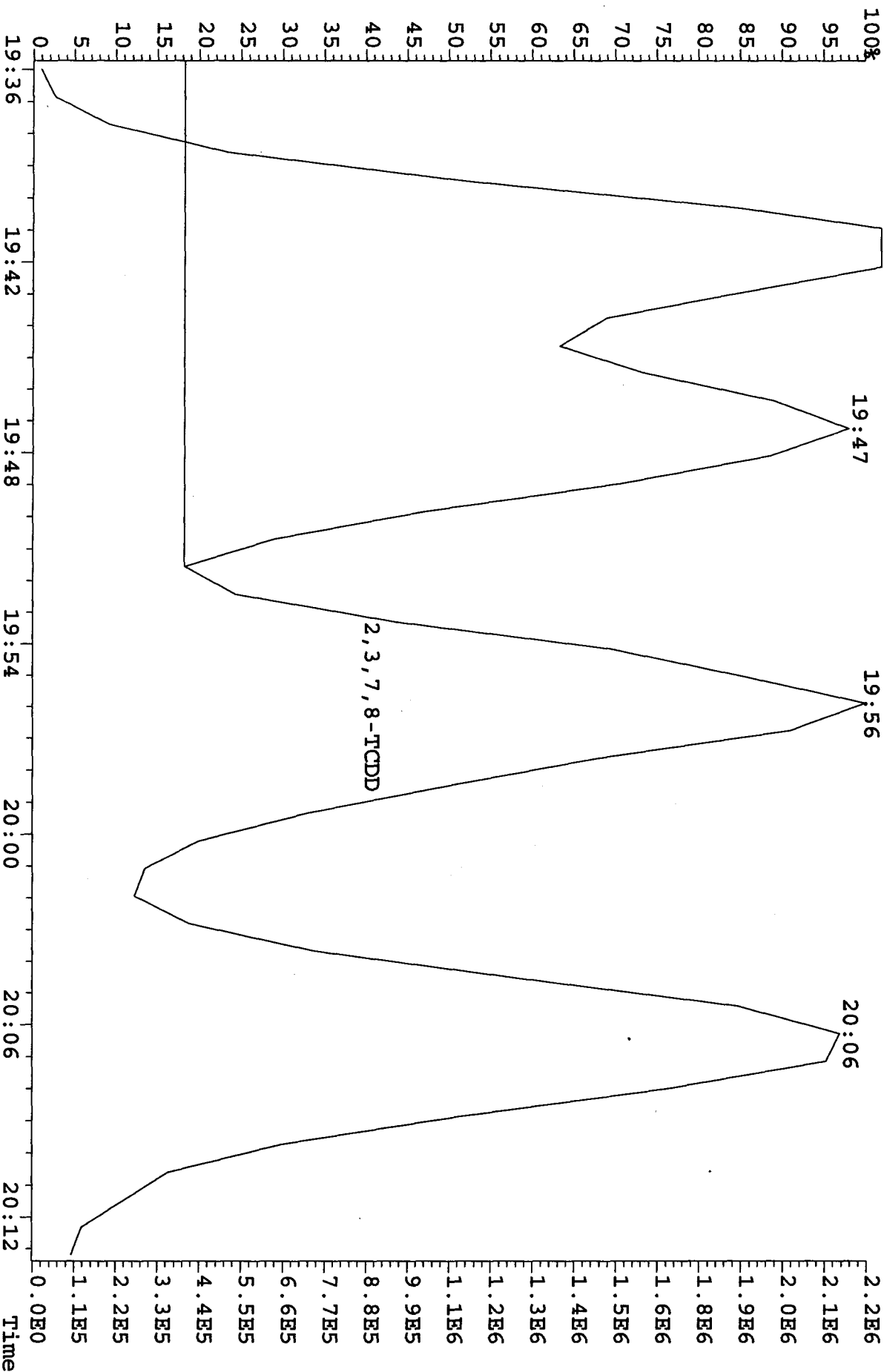
Peak Locate Examination: 23-DEC-2009: 08:42 File: ENDRES22DFE09A4D5
 Experiment: DIOXIN Function: 4 Reference: PFK



Peak Locate Examination: 23-DEC-2009: 08:43 File: ENDRES22DE09A4D5
 Experiment: DIOXIN Function: 5 Reference: PFK



File: 22DE09A4D5 #1-578 Acq: 22-DEC-2009 22:10:09 GC FI+ Voltage SIR Autospec-UltimaE
Sample#2 Text: CP1222A : DB-5 CPM 3732-03 Exp: DIOXIN
321.8936 S: 2



Run: 22DE09A4D5 Analyte: 8290 Cal: 82900916094D5

ST0916 :CS-1 09DXN236 ST0916A :CS-2 09DXN237 ST0916B :CS-3 09DXN238
 ST0916C :CS-4 09DXN239 ST0916D :CS-5 09DXN240

16SE094D5 16SE094D5 16SE094D5 16SE094D5 16SE094D5

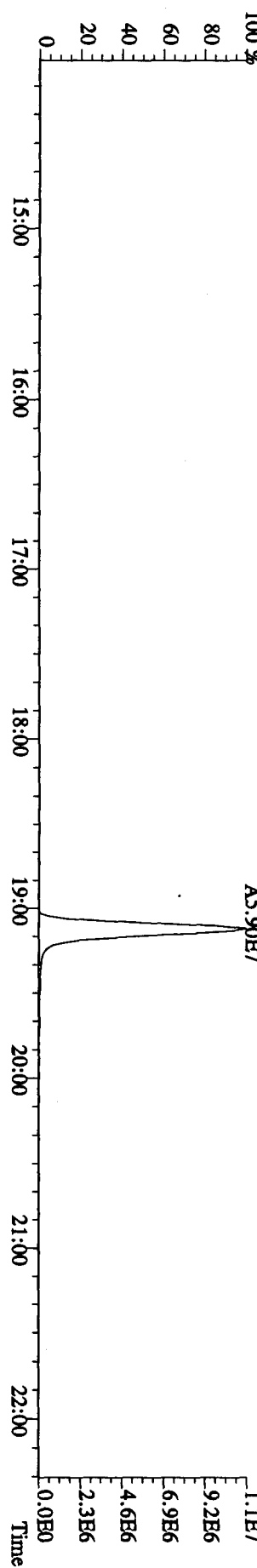
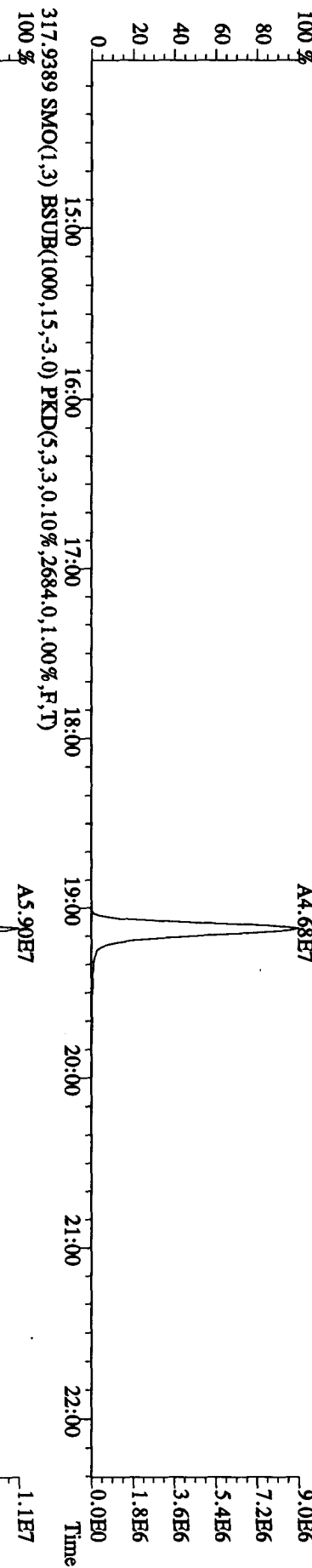
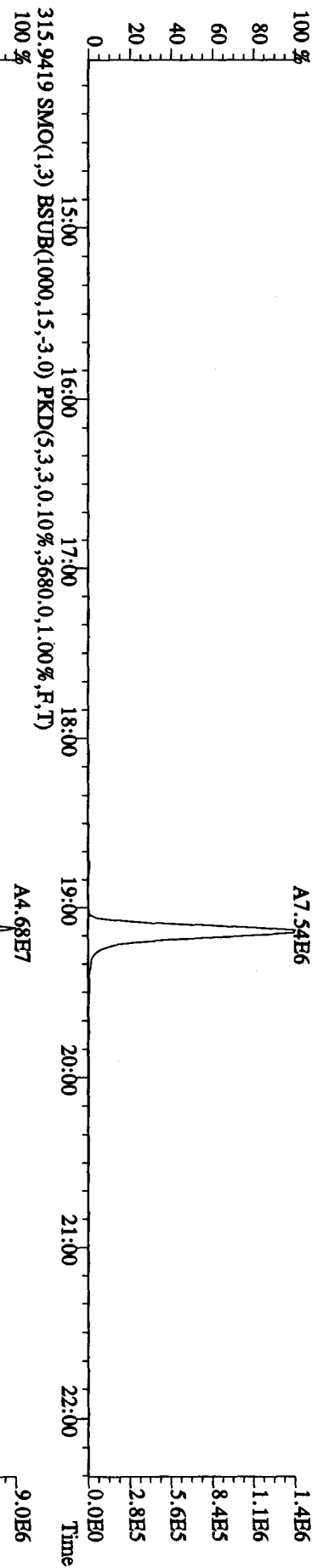
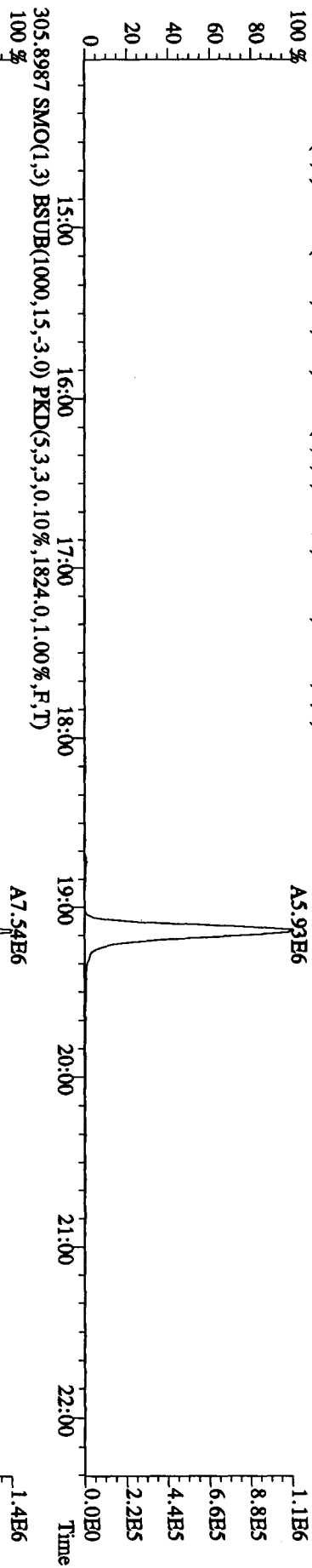
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.459	0.063	4.33 %	1.42	1.50	1.38	1.47	1.54
2,3,7,8-TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28
Total TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28
13C-2,3,7,8-TCDD	0.923	0.042	4.50 %	0.89	0.93	0.88	0.93	0.98
2,3,7,8-TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27
Total TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27
37Cl-2,3,7,8-TCDD	2.515	0.152	6.03 %	2.35	2.48	2.47	2.51	2.77
13C-1,2,3,7,8-PeCDF	1.267	0.085	6.70 %	1.19	1.28	1.18	1.29	1.39
1,2,3,7,8-PeCDF	1.302	0.025	1.90 %	1.26	1.30	1.31	1.32	1.32
2,3,4,7,8-PeCDF	1.250	0.034	2.69 %	1.20	1.23	1.26	1.28	1.28
Total F2 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30
Total F1 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30
13C-1,2,3,7,8-PeCDD	0.772	0.056	7.24 %	0.72	0.78	0.72	0.79	0.85
1,2,3,7,8-PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26
Total PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.187	0.035	2.92 %	1.16	1.23	1.21	1.14	1.20
1,2,3,4,7,8-HxCDF	1.307	0.031	2.37 %	1.27	1.32	1.27	1.33	1.33
1,2,3,6,7,8-HxCDF	1.412	0.039	2.75 %	1.46	1.39	1.37	1.44	1.40
2,3,4,6,7,8-HxCDF	1.334	0.033	2.51 %	1.36	1.33	1.28	1.36	1.33
1,2,3,7,8,9-HxCDF	1.195	0.052	4.39 %	1.17	1.18	1.13	1.27	1.23
Total HxCDF	1.312	0.032	2.40 %	1.32	1.31	1.26	1.35	1.32
13C-1,2,3,6,7,8-HxCDD	0.747	0.046	6.16 %	0.77	0.78	0.69	0.71	0.79
1,2,3,4,7,8-HxCDD	1.242	0.047	3.75 %	1.19	1.21	1.31	1.26	1.23

1,2,3,6,7,8-HxCDD	1.479	0.113	7.64 %	1.34	1.48	1.59	1.60	1.39
1,2,3,7,8,9-HxCDD	1.473	0.089	6.01 %	1.41	1.41	1.54	1.60	1.40
Total HxCDD	1.398	0.078	5.60 %	1.32	1.37	1.48	1.48	1.34
13C-1,2,3,4,6,7,8-HpCDF	0.913	0.028	3.08 %	0.91	0.93	0.88	0.90	0.95
1,2,3,4,6,7,8-HpCDF	1.595	0.021	1.32 %	1.56	1.59	1.61	1.62	1.59
1,2,3,4,7,8,9-HpCDF	1.331	0.063	4.73 %	1.25	1.29	1.36	1.36	1.40
Total HpCDF	1.463	0.040	2.72 %	1.41	1.44	1.49	1.49	1.50
13C-1,2,3,4,6,7,8-HpCDD	0.714	0.028	3.95 %	0.70	0.73	0.69	0.69	0.76
1,2,3,4,6,7,8-HpCDD	1.307	0.033	2.51 %	1.27	1.27	1.32	1.34	1.33
Total HpCDD	1.307	0.033	2.51 %	1.27	1.27	1.32	1.34	1.33
13C-OCDD	0.606	0.053	8.81 %	0.56	0.59	0.58	0.61	0.70
OCDF	1.509	0.127	8.40 %	1.35	1.42	1.51	1.62	1.65
OCDD	1.194	0.018	1.52 %	1.16	1.20	1.20	1.21	1.20

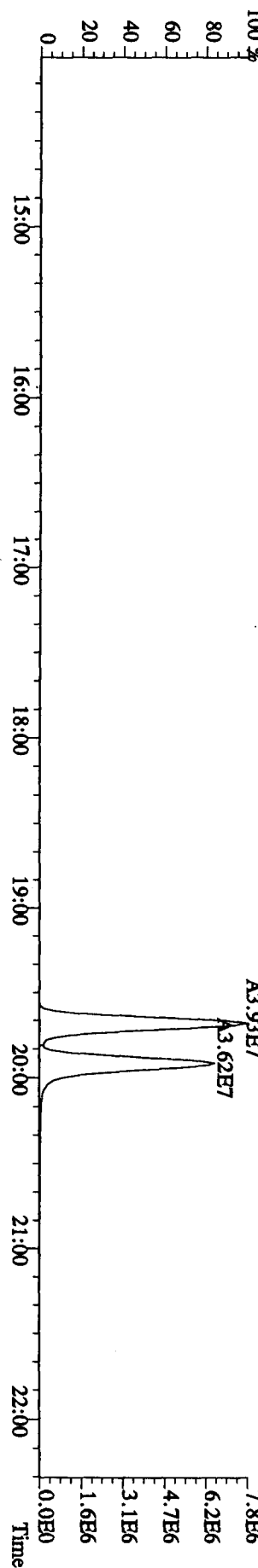
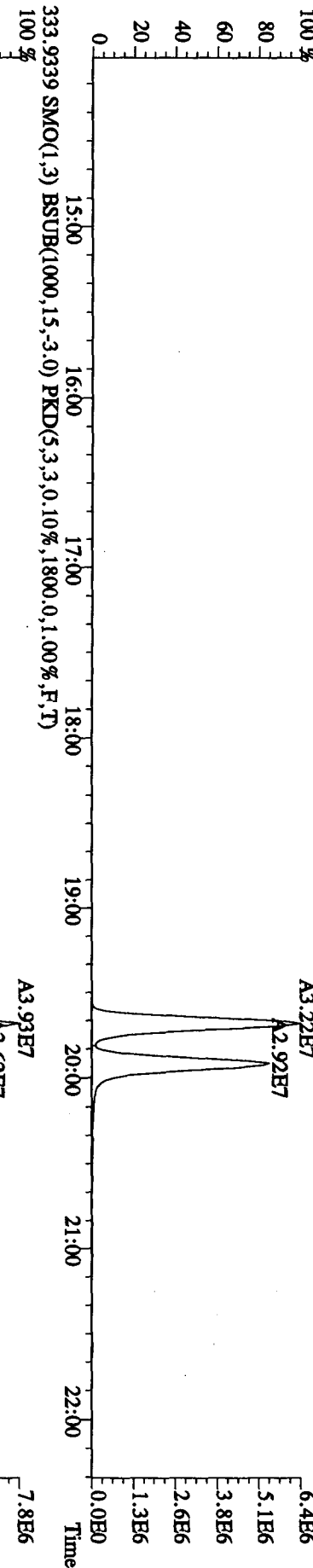
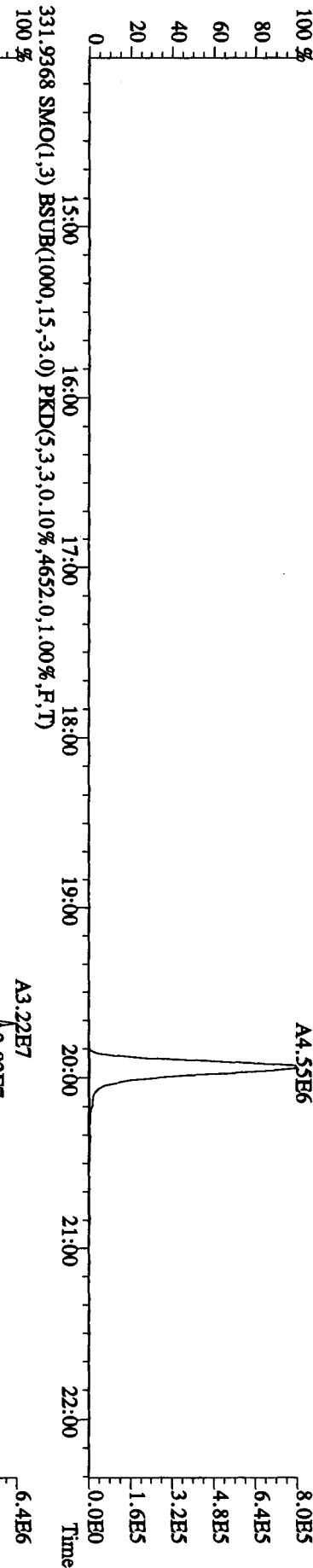
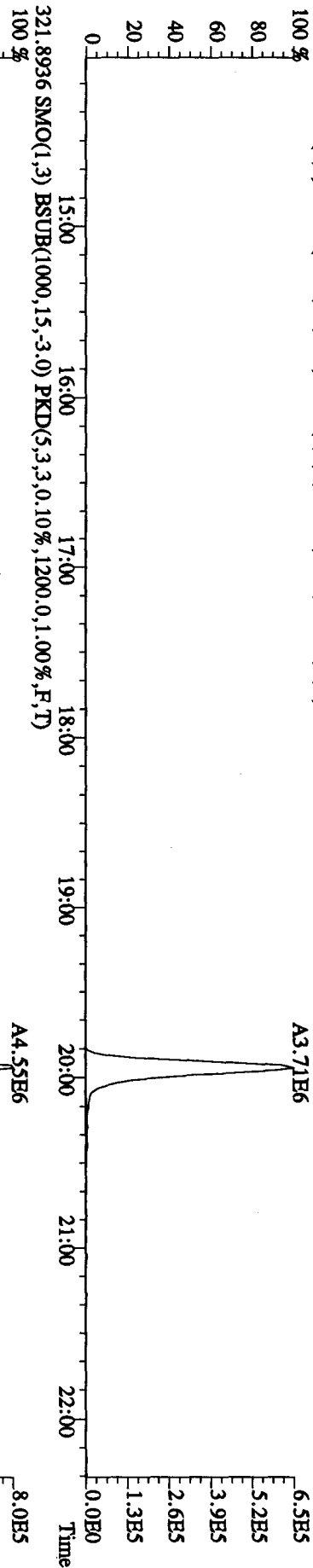
File: 22DE09A4D5 #1-578 Acq: 22-DEC-2009 21:26:07 GC EI + Voltage SIR Autospec-UltimaE

Sample #1 Text: ST1222B :CS3 09DXN384 Exp: DIOXIN

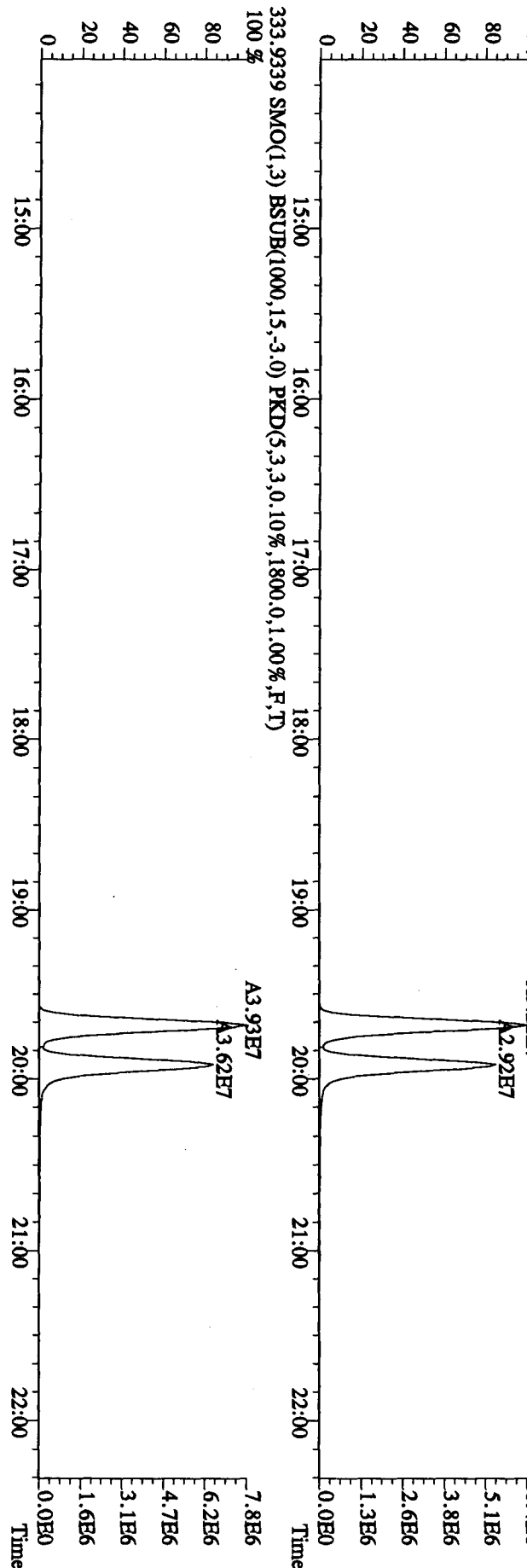
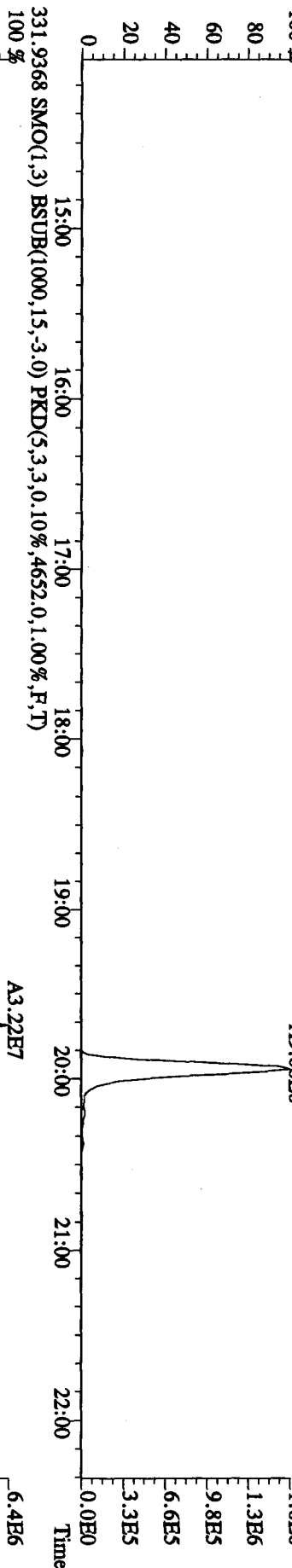
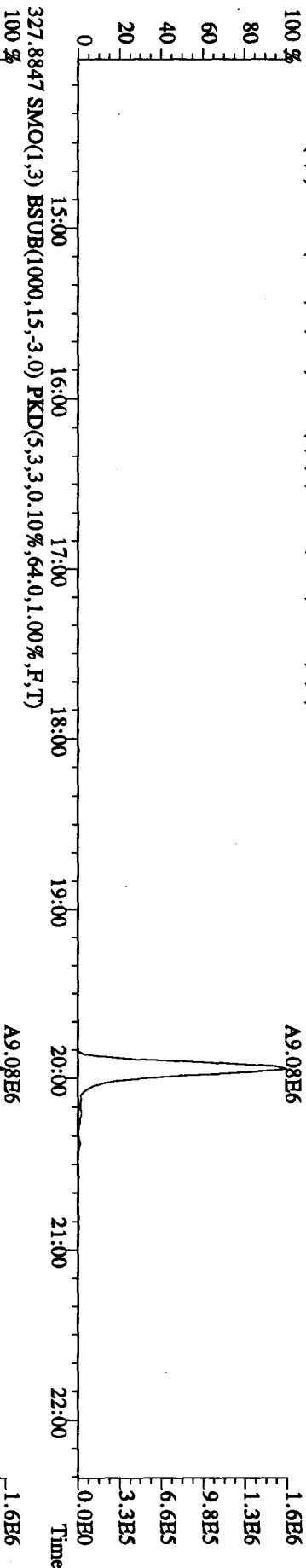
303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1224.0,1.00%,F,T) 100%



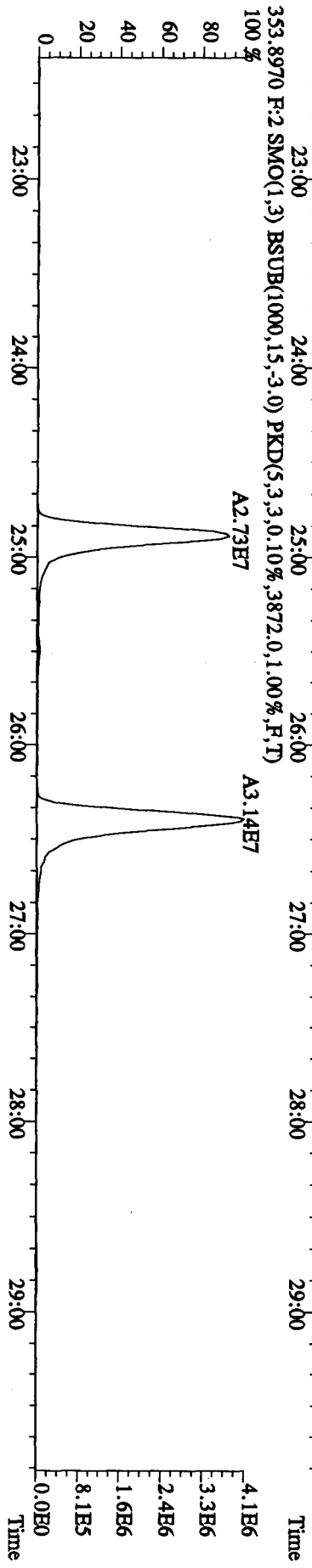
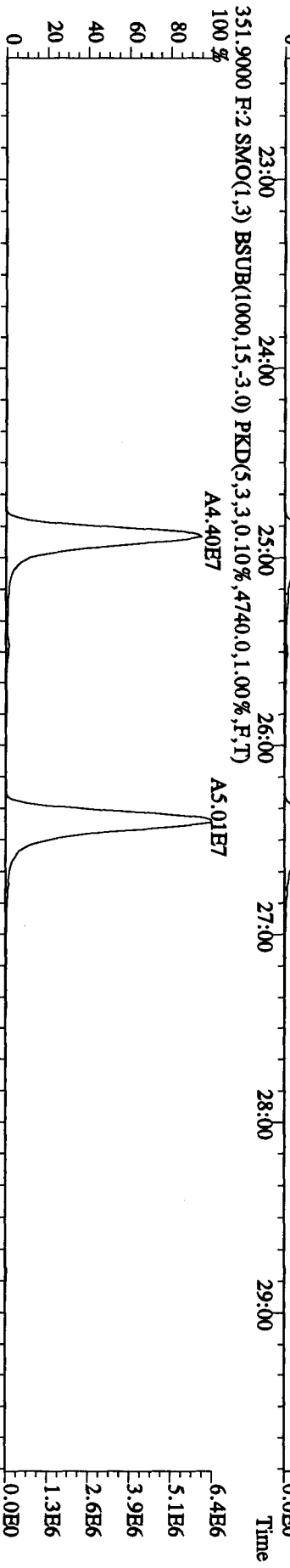
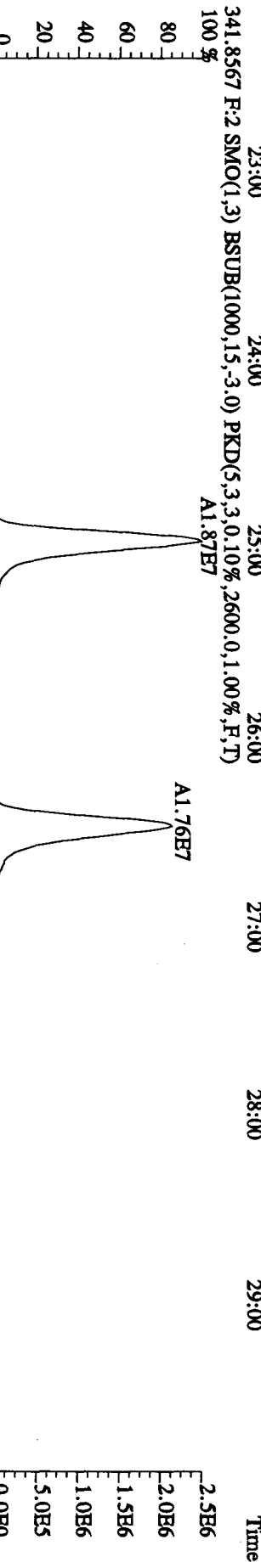
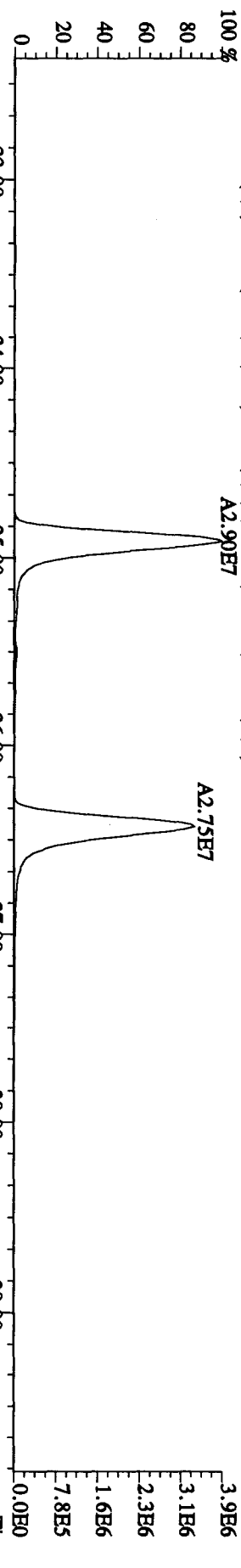
File: 22DB09ADD5 #1-578 Acq: 22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text: ST1222B :CS3 09DXN384 Exp: DIOXIN
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T) 100%



File: 22DE09A4D5 #1-578 Acq: 22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text: ST1222B :CS3 09DXN384 Exp: DIOXIN
 327,8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)
 100%

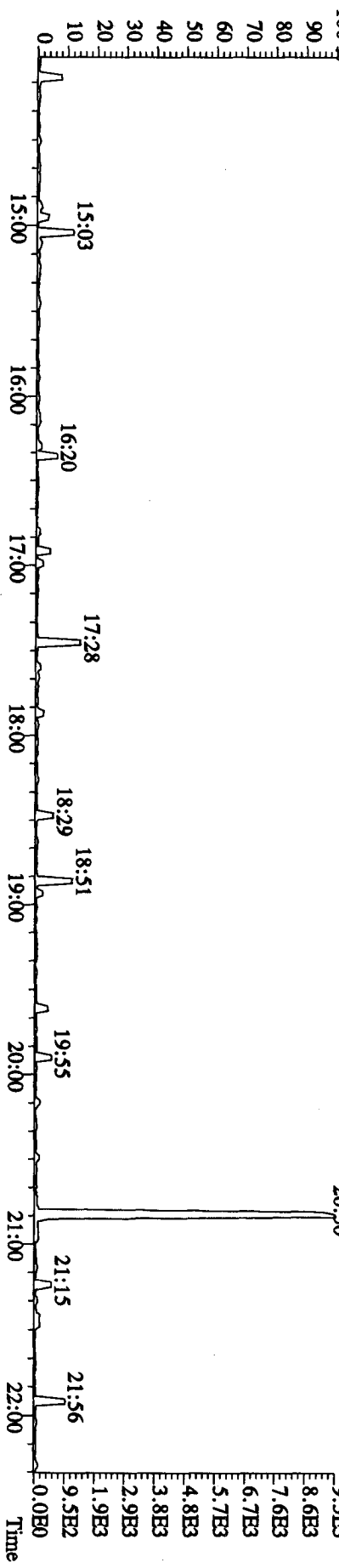
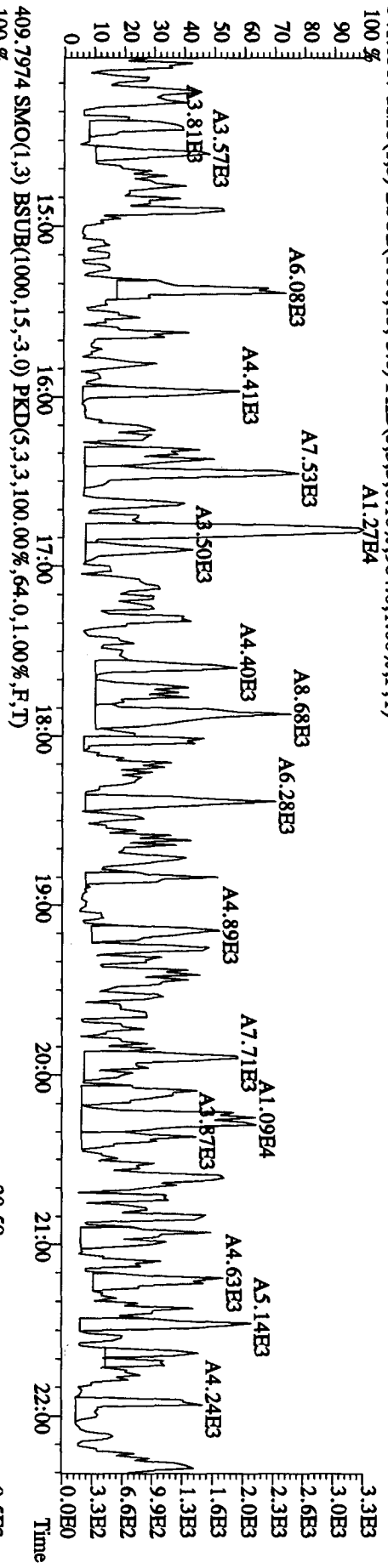
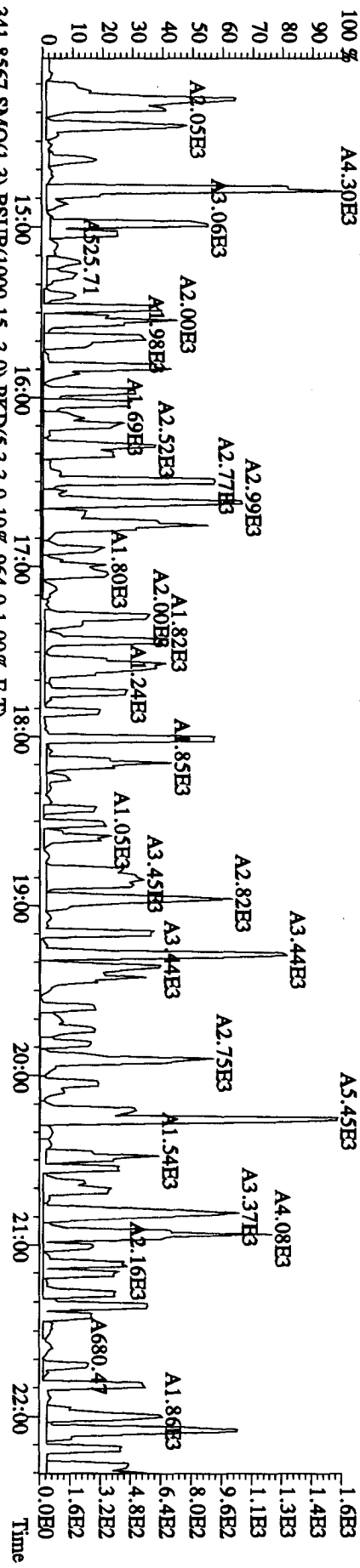


File: 22DB09A4D5 #1-597 Acq: 22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text: ST1222B :CS3 09DXN384 Exp: DIOXIN
 339.8597 F:2.SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3320,0,1,00%,F,T)
 100% A2.90E7



File:22DB09A4D5 #1-578 Acq:22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-UltimaB
Sample#1 Text:ST1222B :CS3 09DXN384 Exp:DIOXIN

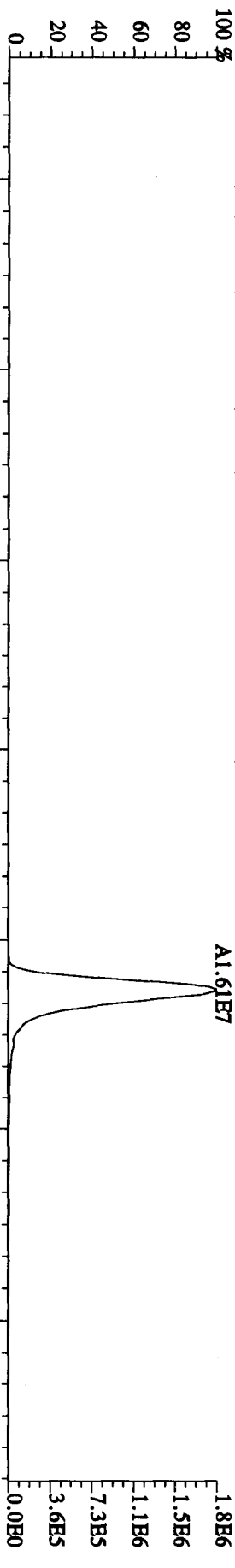
339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)
100% A4.30E3



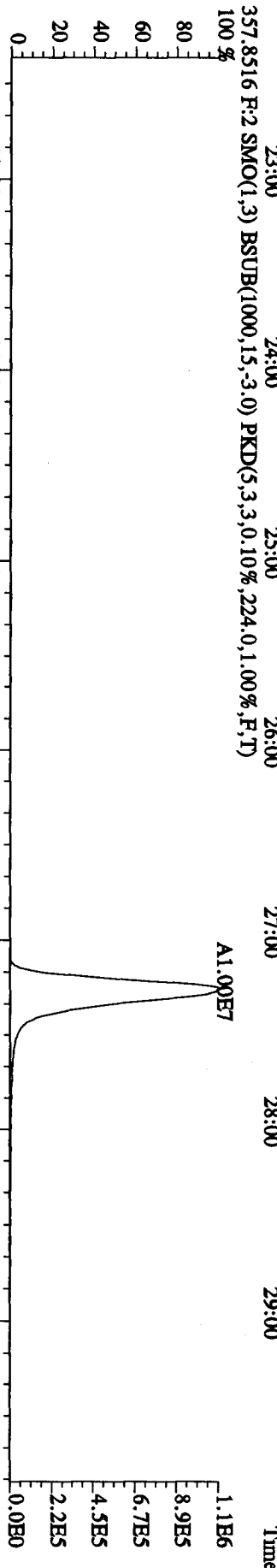
File:22DDE09AAD5 #1-597 Acq:22-DEC-2009 21:26:07 GC HI+ Voltage SIR Autospec-UltimaB

Sample#1 Text:ST1222B :CS3 09DXN384 Exp:DIOXIN

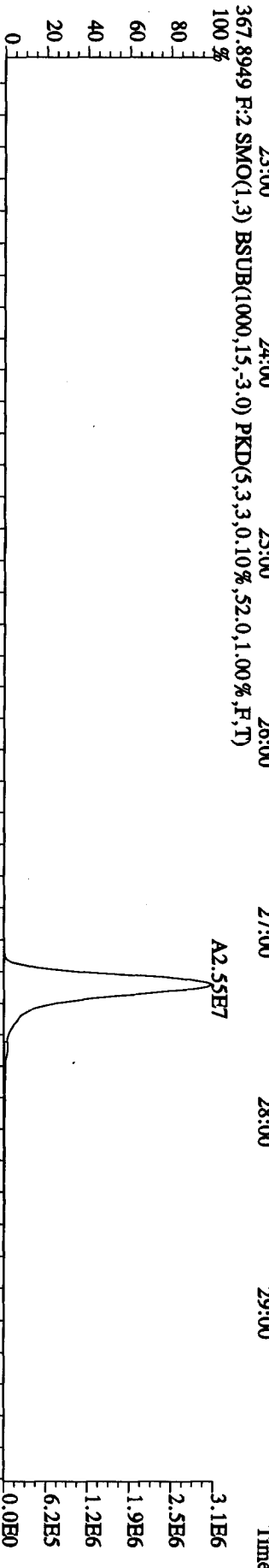
355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1308,0,1,00%,F,T) 100%



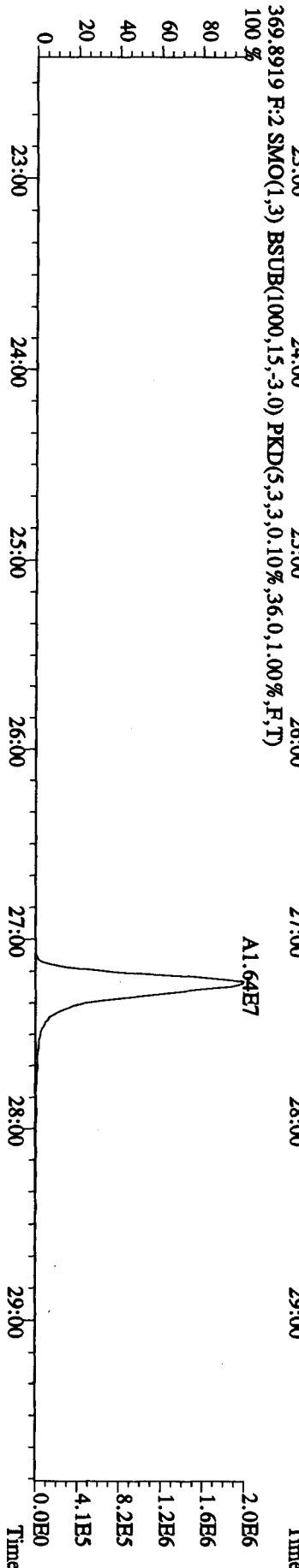
357.8516 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,224,0,1,00%,F,T) 100%



367.8949 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,52,0,1,00%,F,T) 100%

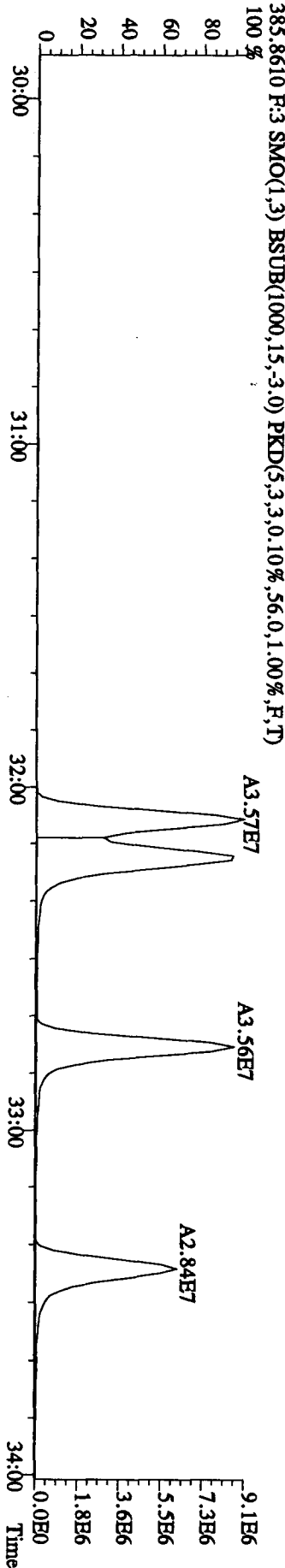
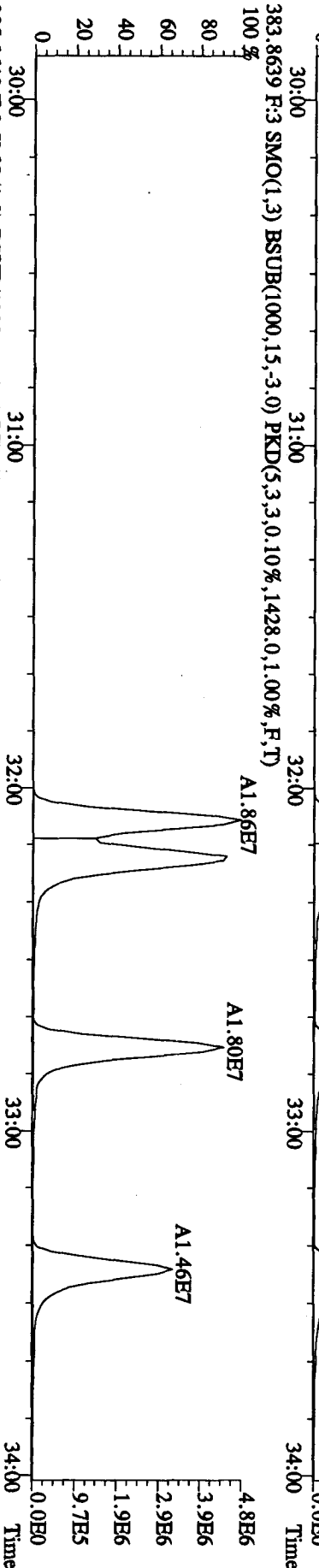
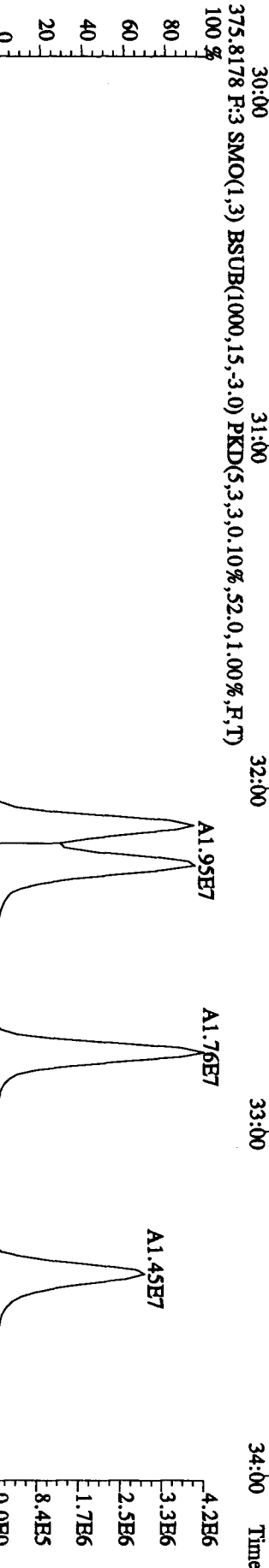
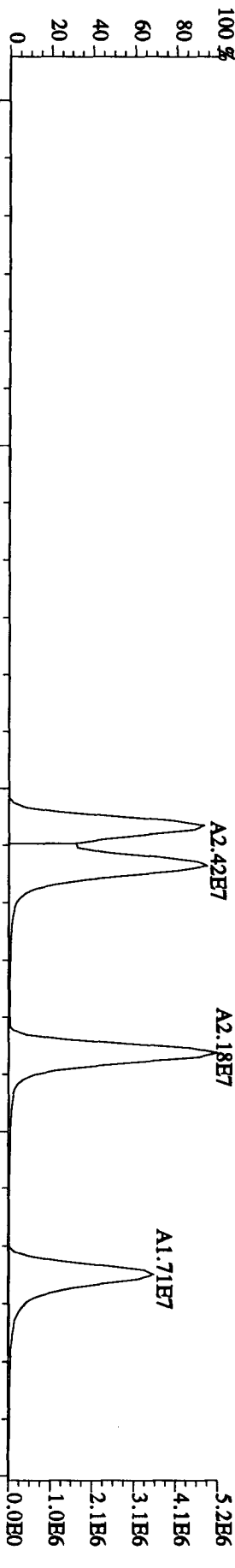


369.8919 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,36,0,1,00%,F,T) 100%

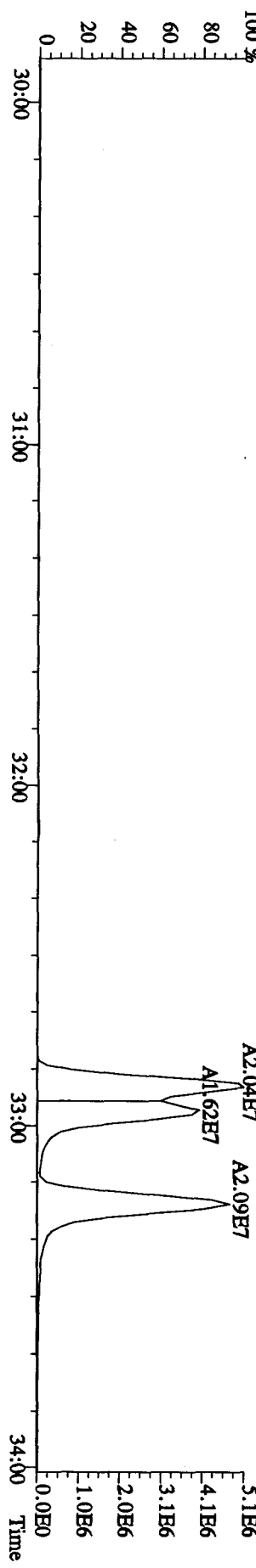
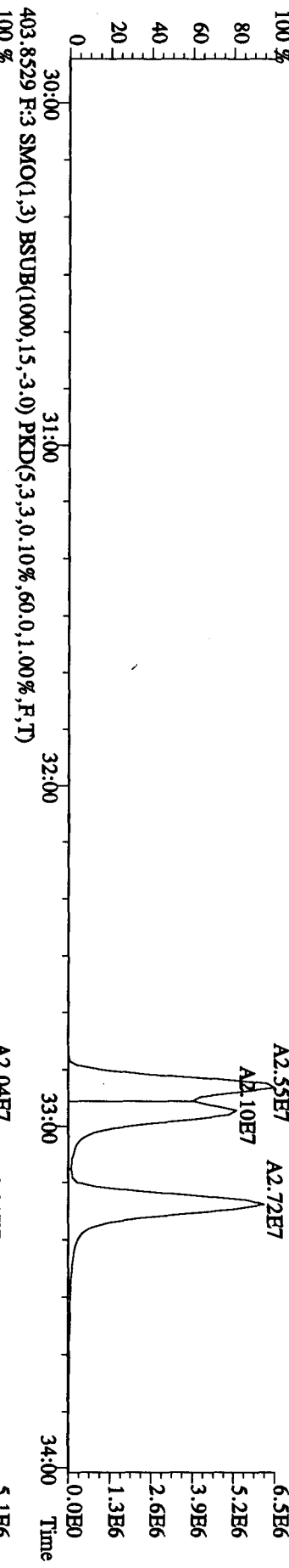
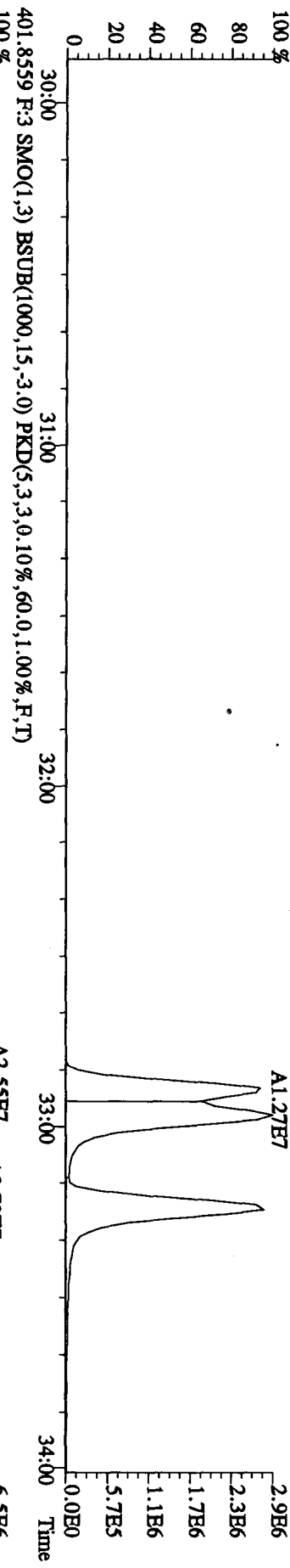
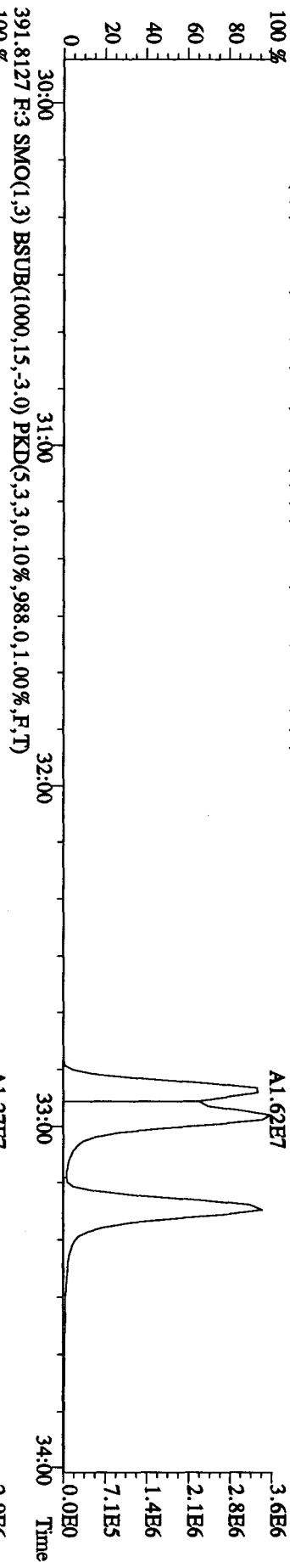


File: 22DB09AADD5 #1-314 Acq: 22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-UltimaB

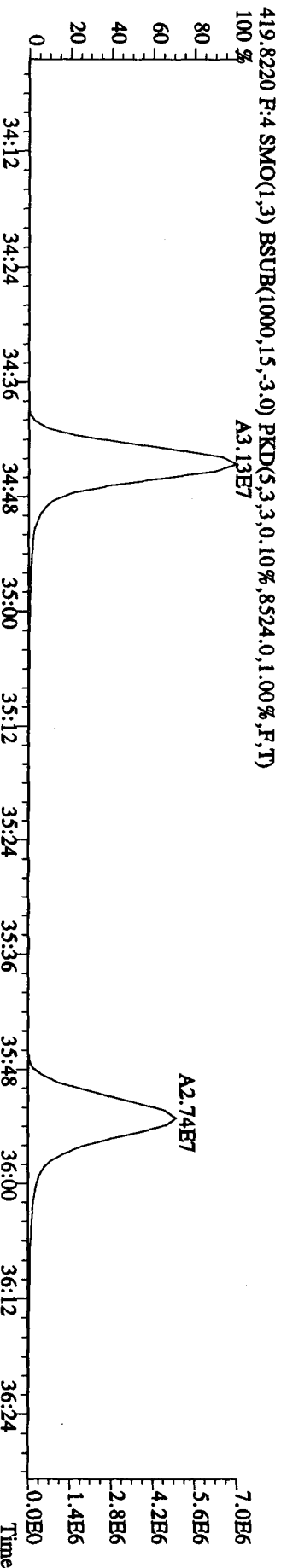
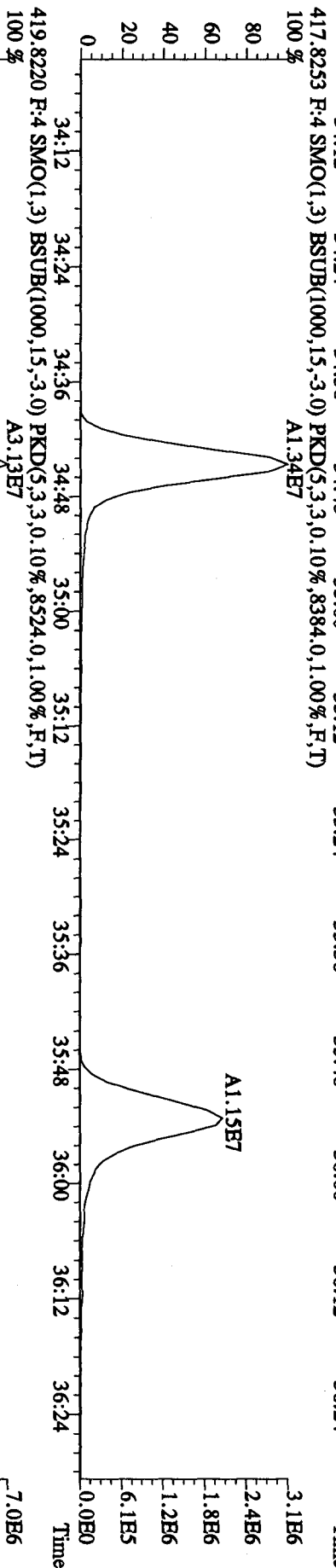
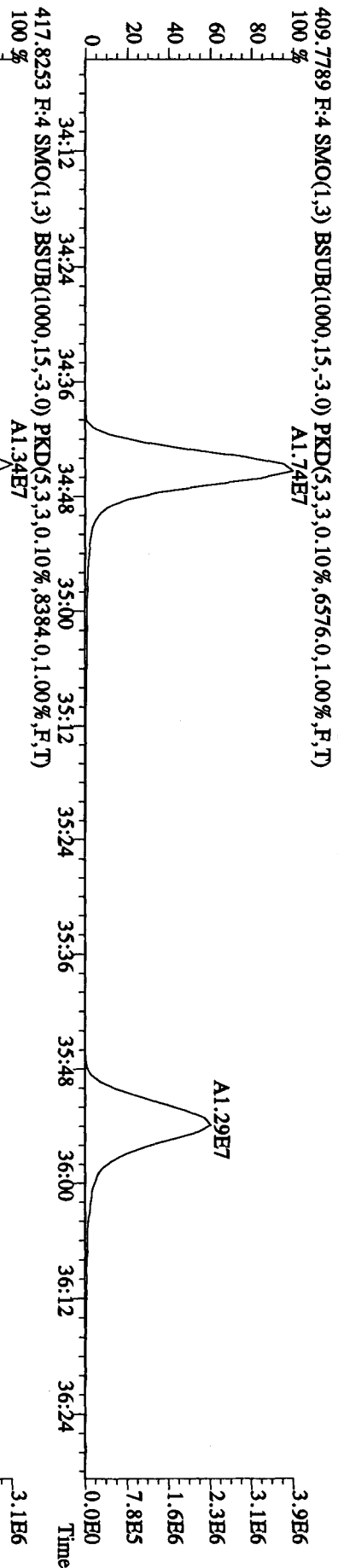
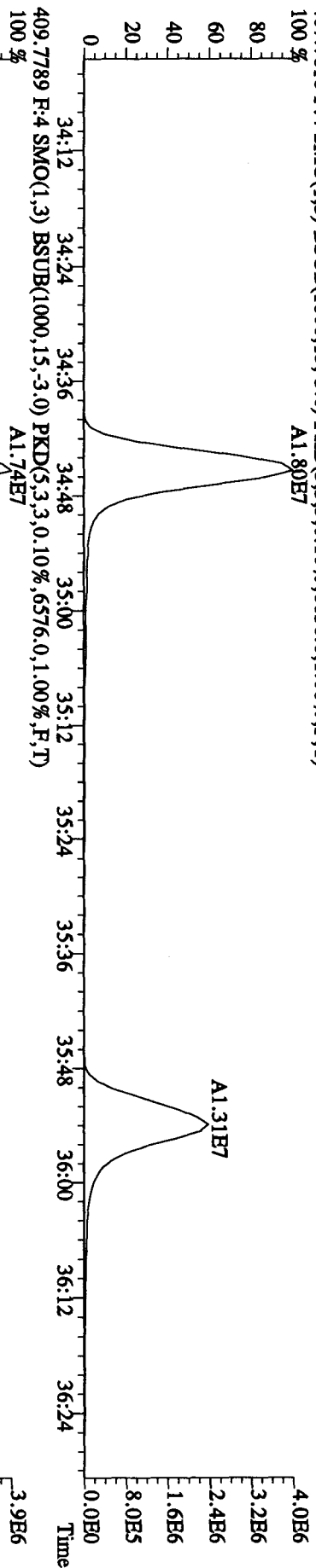
Sample#1 Text: ST1222B : CS3 09DXN384 Exp: DIOXIN



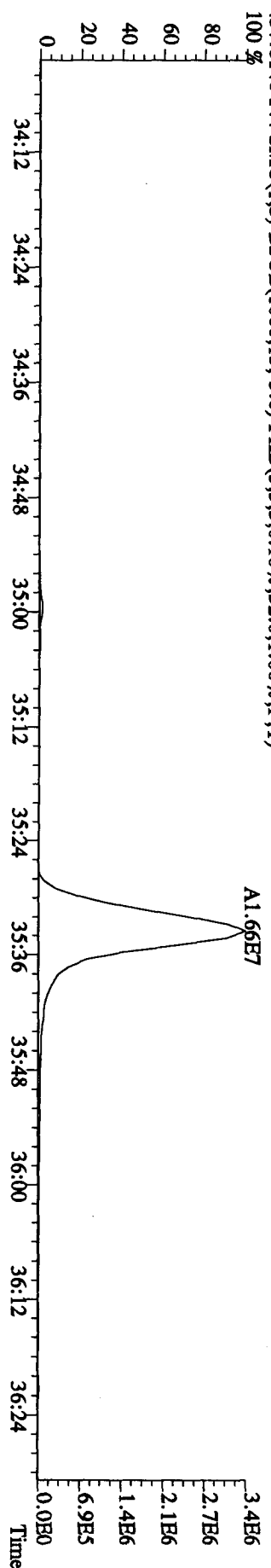
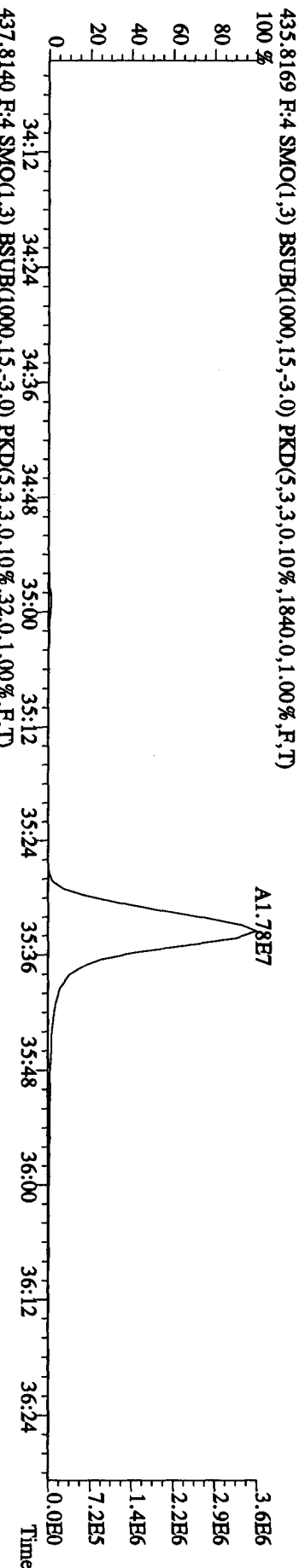
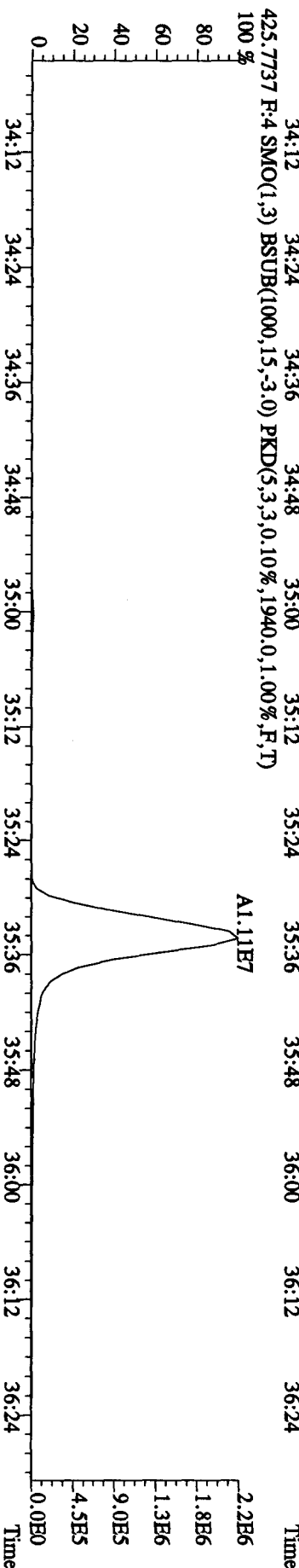
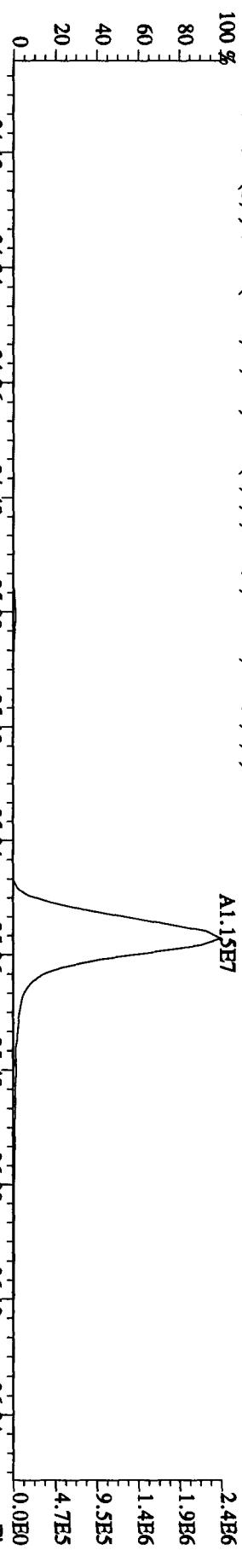
File:22DB09A4D5 #1-314 Acq:22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:ST1222B :C53 09DXN384 Exp:DIOXIN
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,472.0,1.00%,F,T) 100%



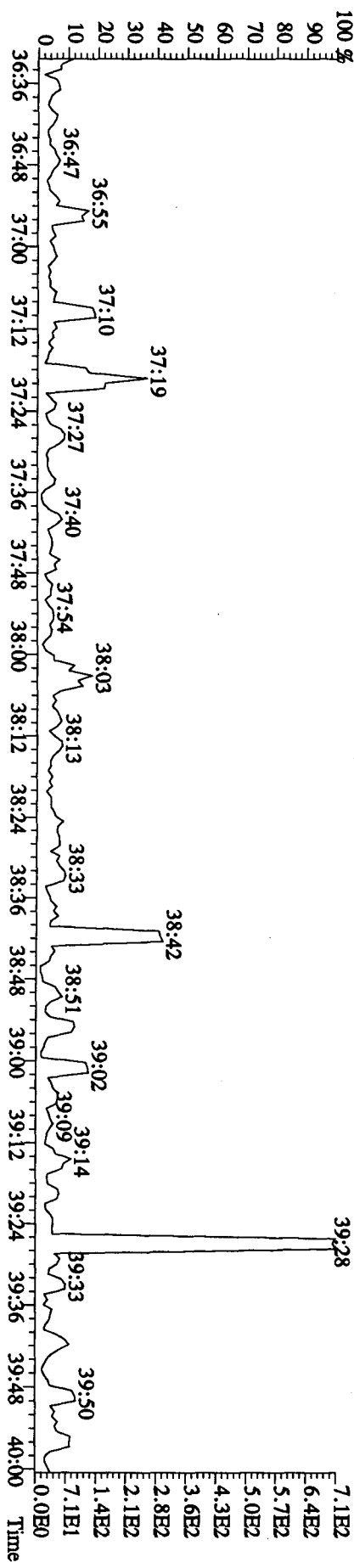
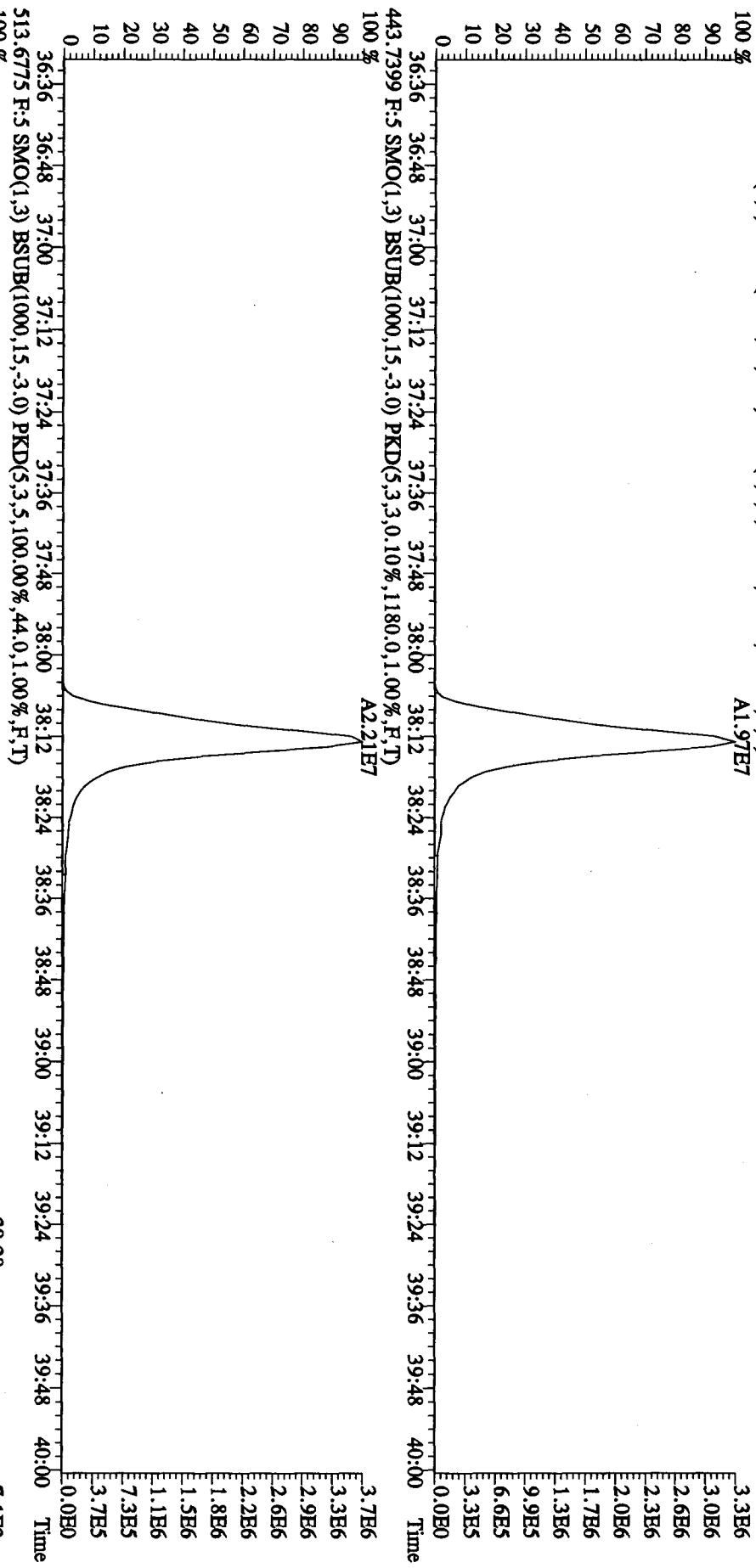
File: 22DE09A4D5 #1-198 Acq: 22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text: ST1222B :CS3 09DXN384 Exp: DIOXIN
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6656,0,1,00%,F,T)
 100% A1.80E7



File:22DE09A4D5 #1-198 Acq:22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:ST1222B :CS3 09DXN384 Exp:DIOXIN

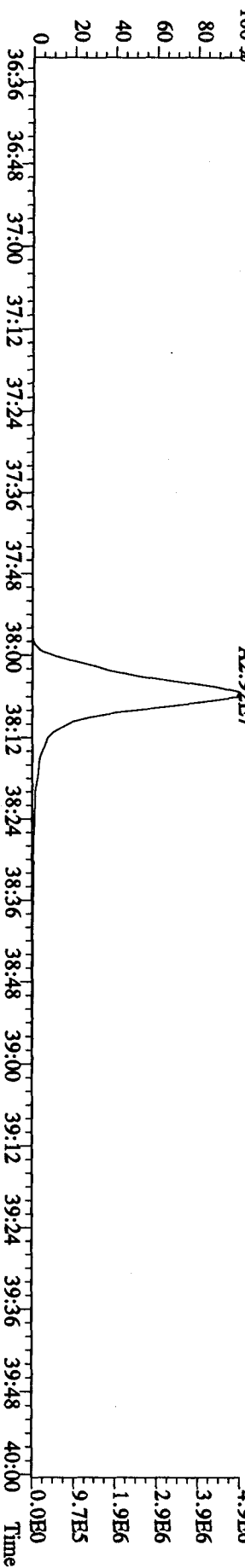
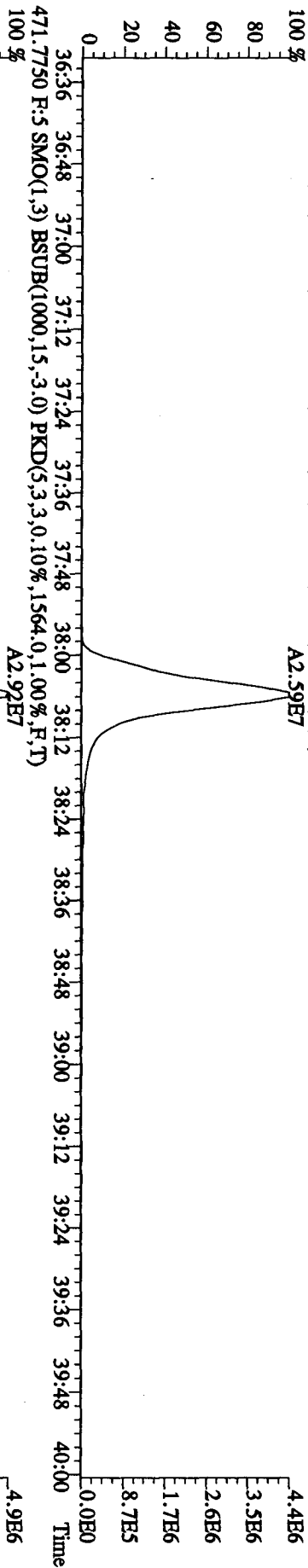
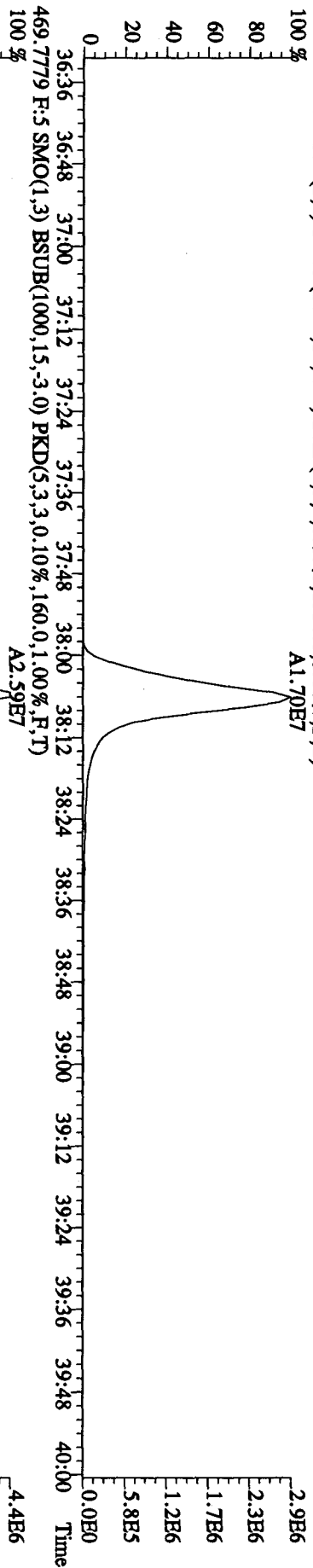
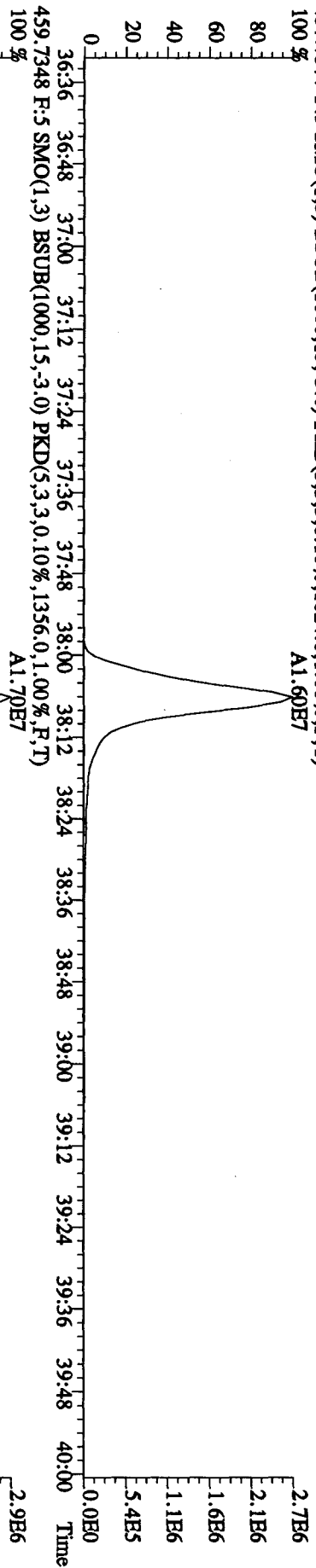


File: 22DE09A4D5 #1-281 Acq: 22-DEC-2009 21:26:07 GC HI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text: ST1222B :CS3 09DDXN384 Exp: DIOXIN
 441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,840.0,1.00%,F,T)
 100% A1.97E7



File:22DB09A4D5 #1-281 Acq:22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-Ultimate

Sample#1 Text:ST1222B :CS3 09DXN384 Exp:DIOXIN
457.7377 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1024,0,1,00%,F,T)
100% A1.60E7

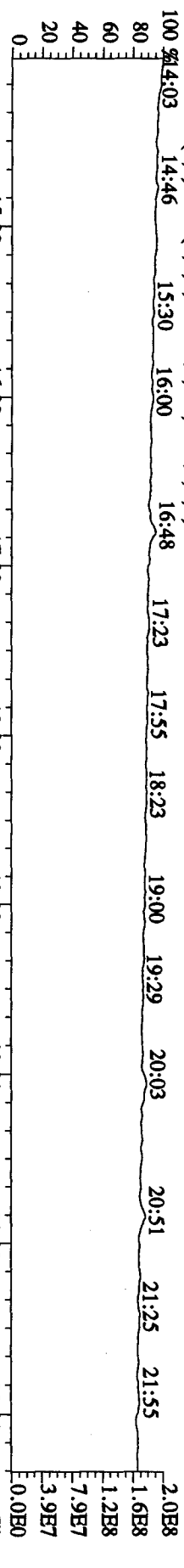


File: 22DE09A4D5 #1-578 Acq: 22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-UltimaE

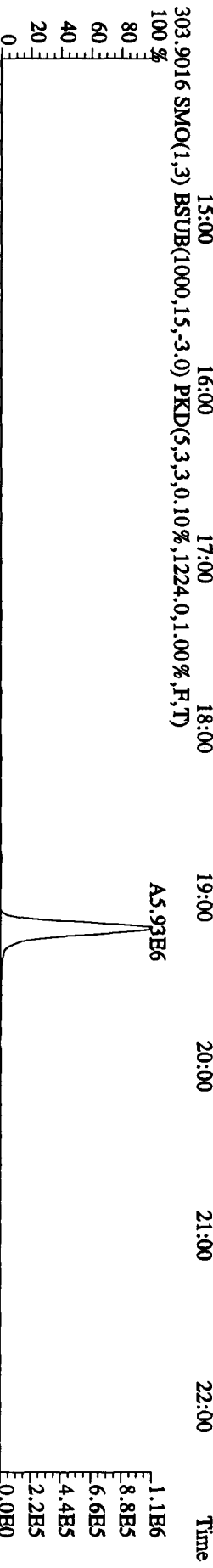
Sample#1 Text: ST1222B :CS3 09DXN384 Exp: DIOXIN

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

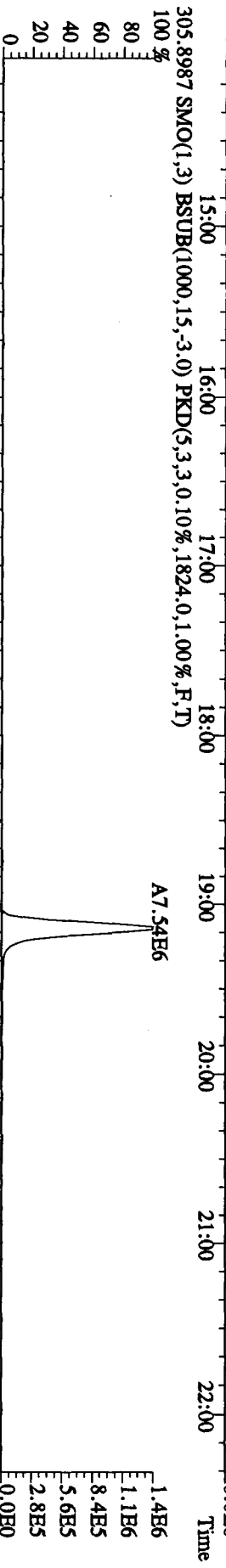
100% 14:03 14:46 15:30 16:00 16:48 17:23 17:55 18:23 19:00 19:29 20:03 20:51 21:25 21:55



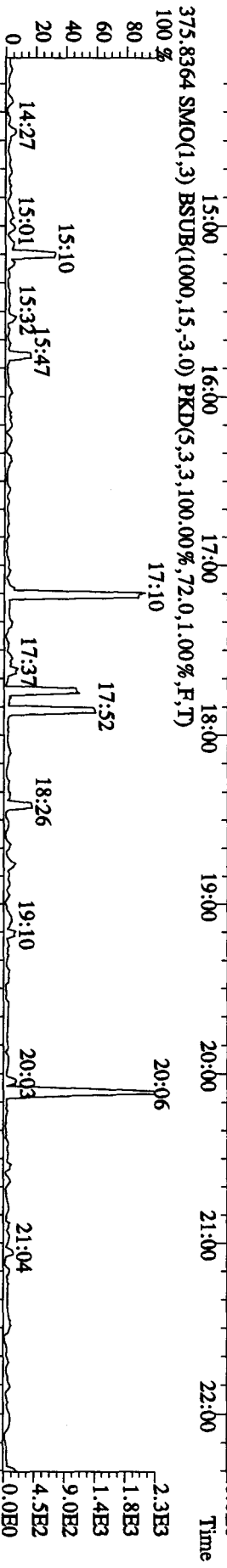
303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1224.0,1.00%,F,T)



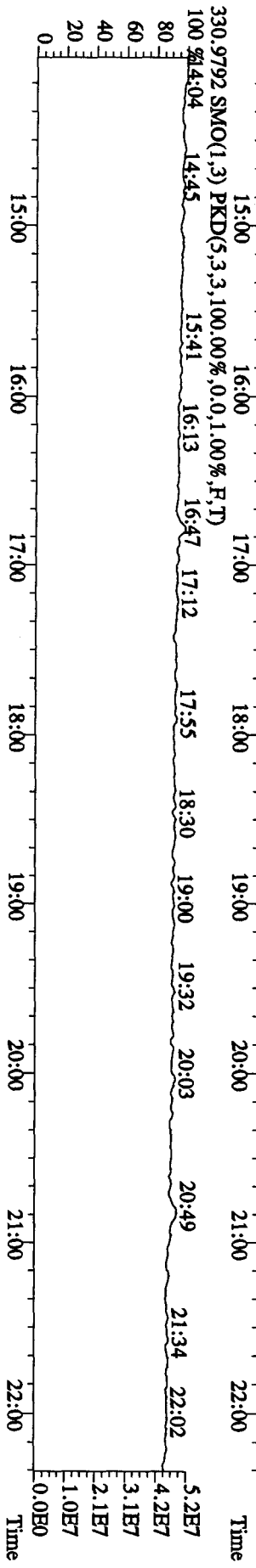
305.8987 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1824.0,1.00%,F,T)

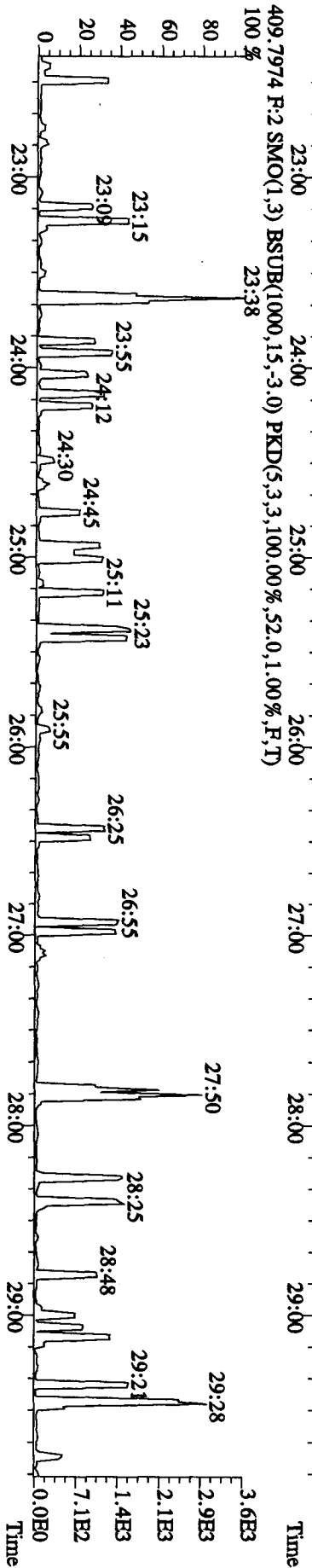
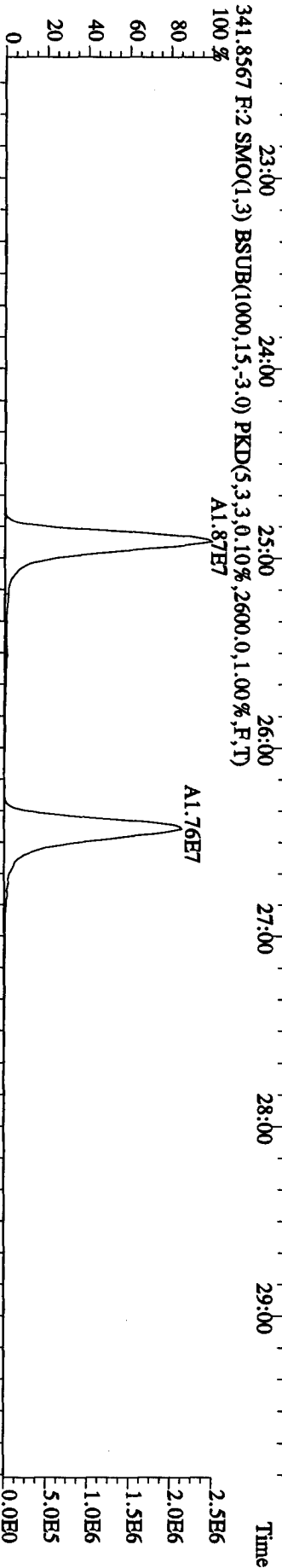
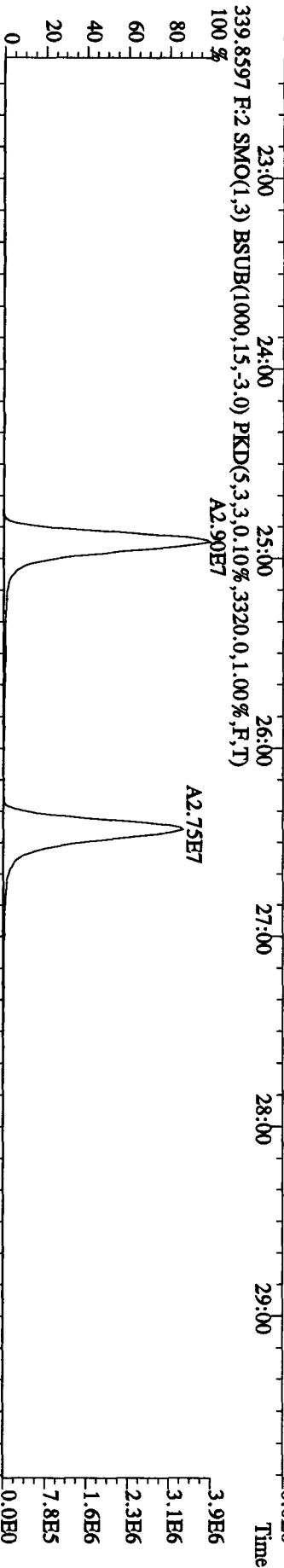
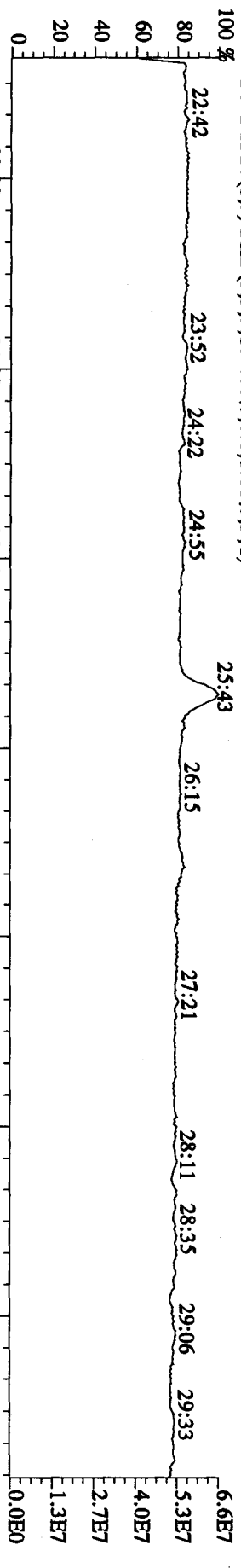


375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,72.0,1.00%,F,T)

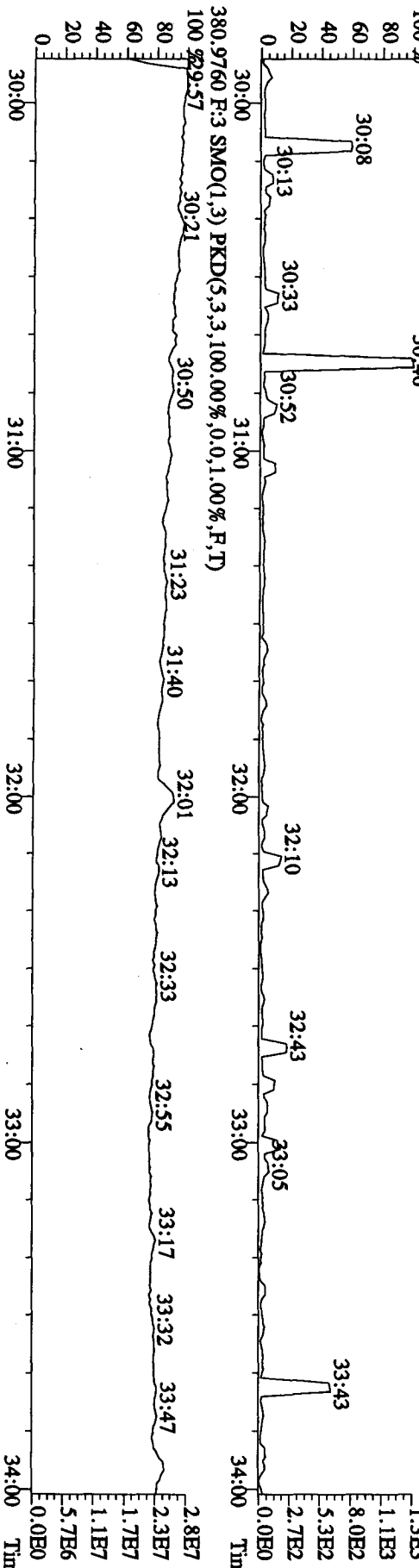
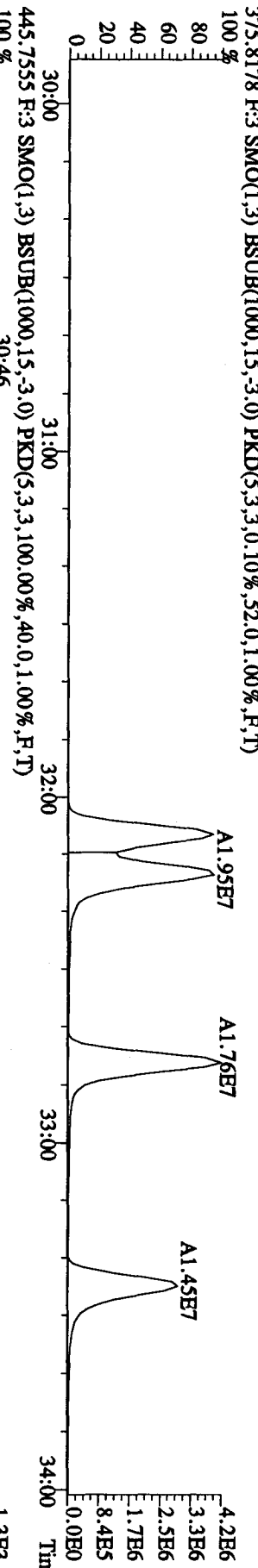
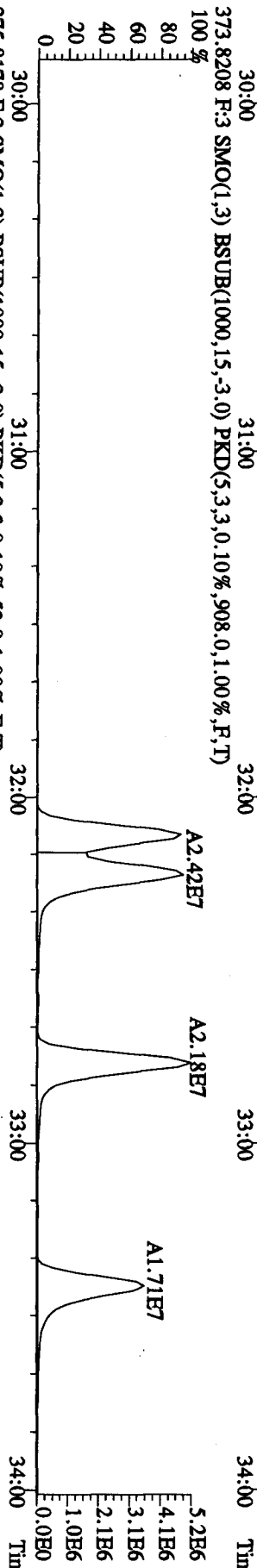
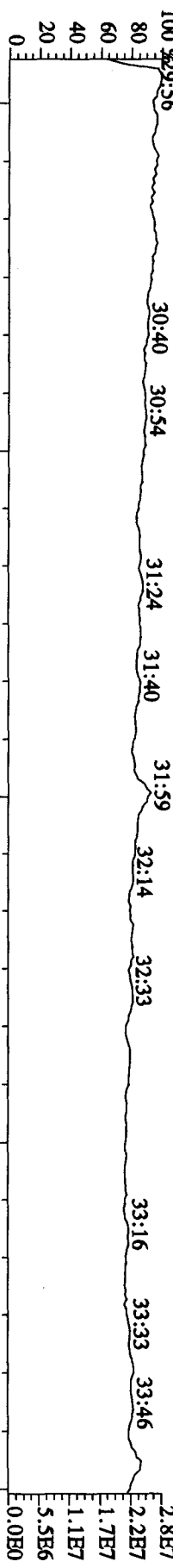


330.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

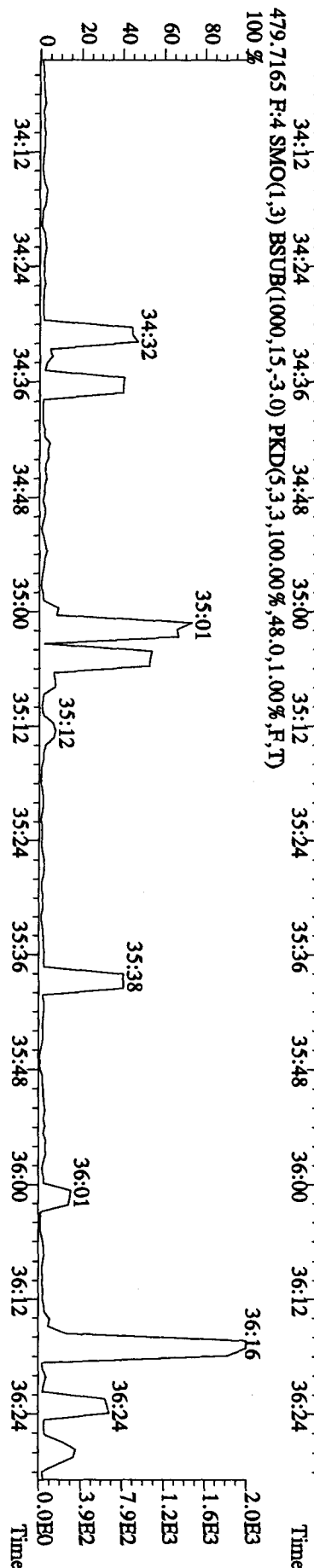
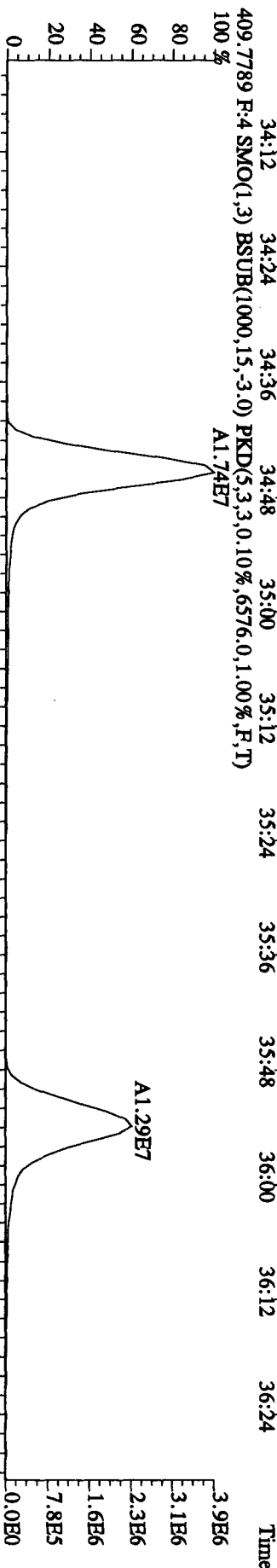
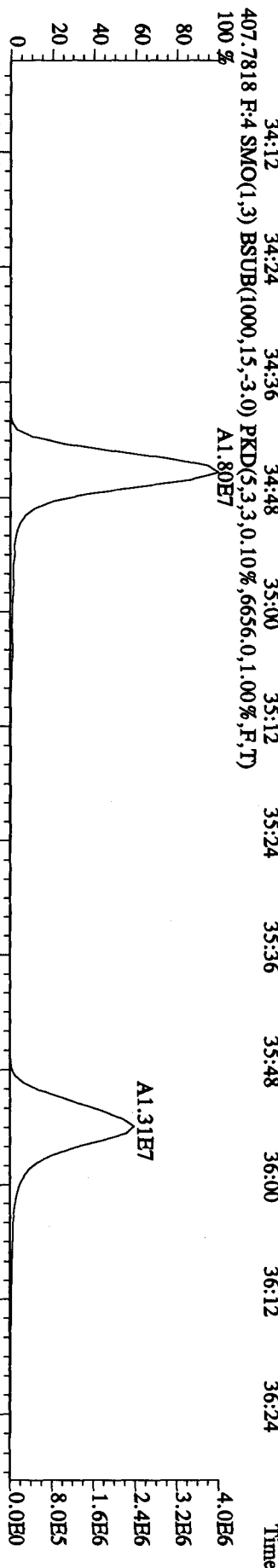
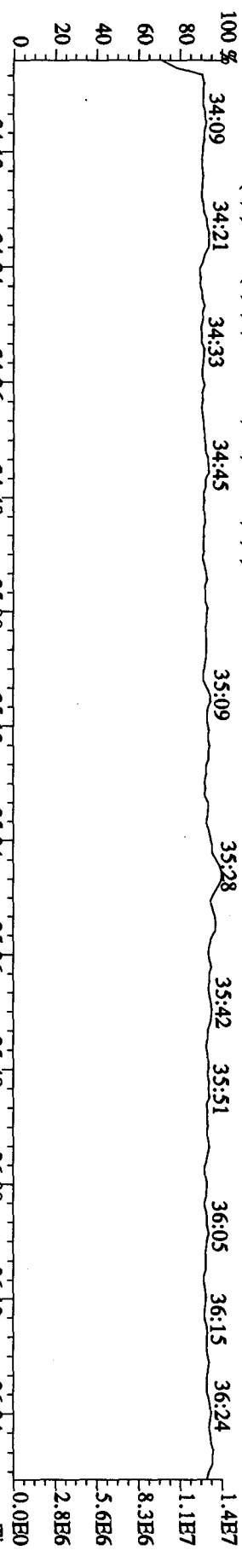




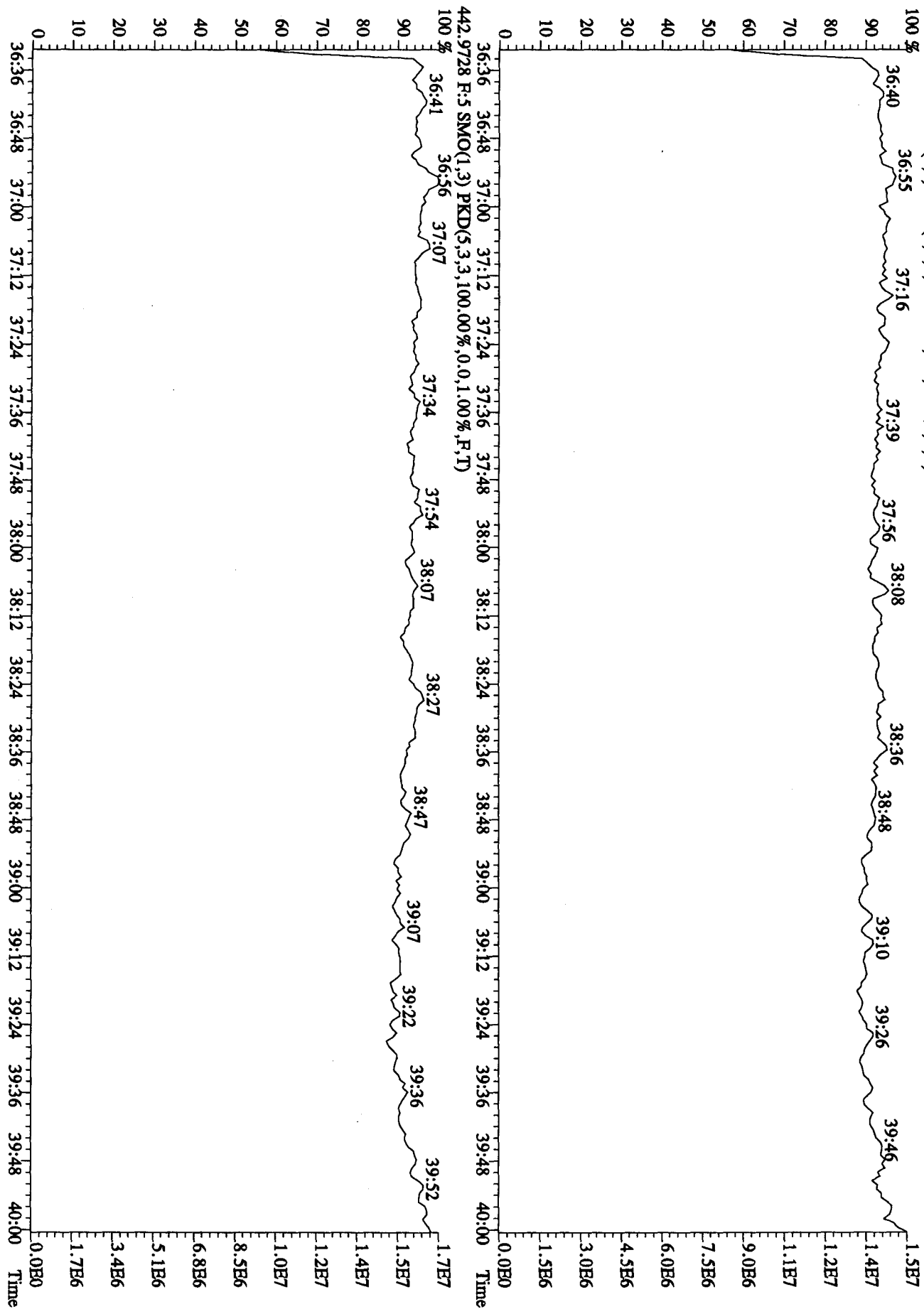
Sample#1 Text:ST1222B :CS3 09DXN384 Exp:DIOXIN



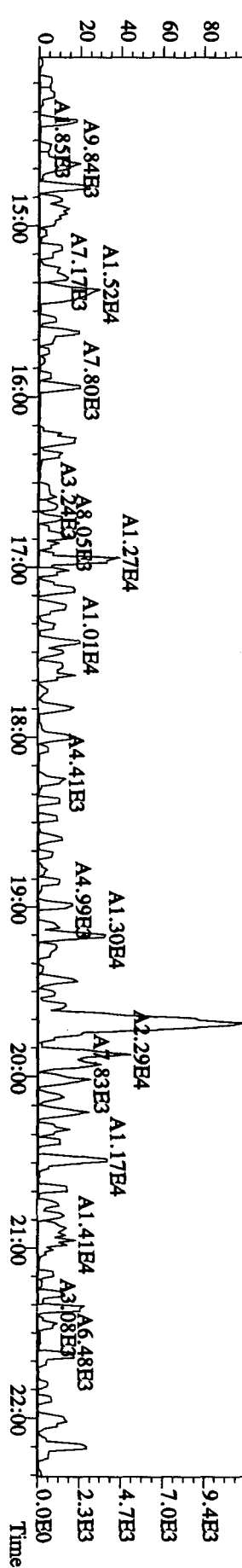
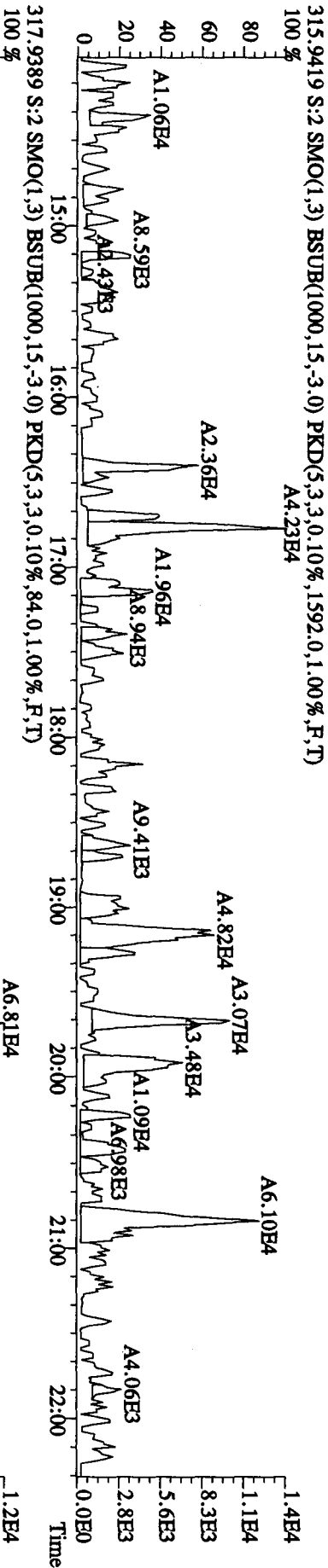
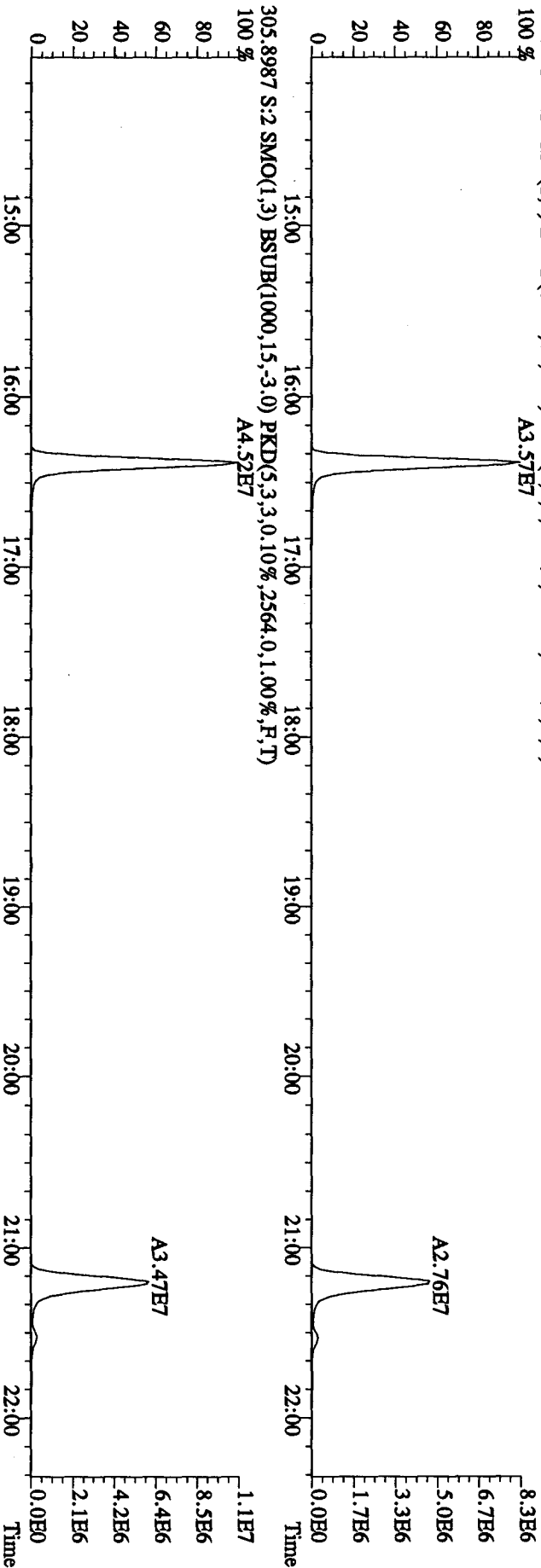
File: 22DE09A4D5 #1-198 Acq: 22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text: ST1222B :CS3 09DXN384 Exp: DIOXIN



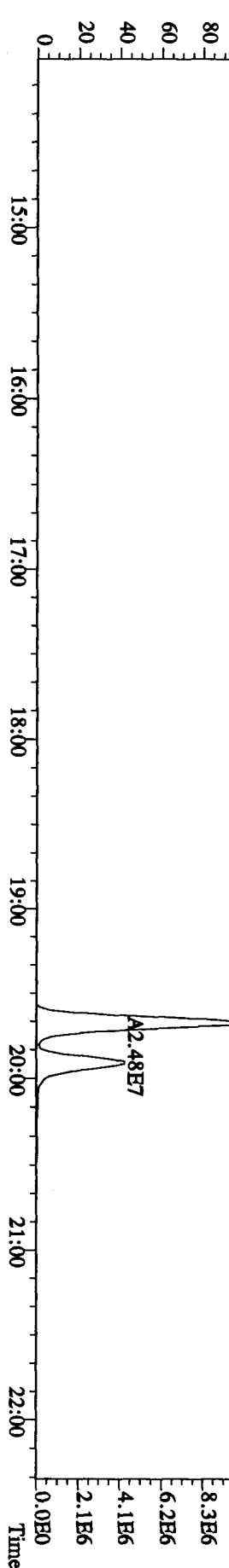
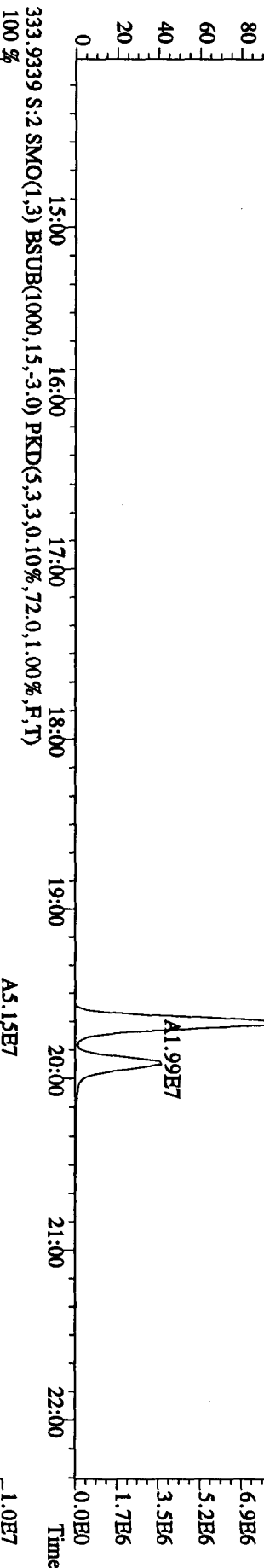
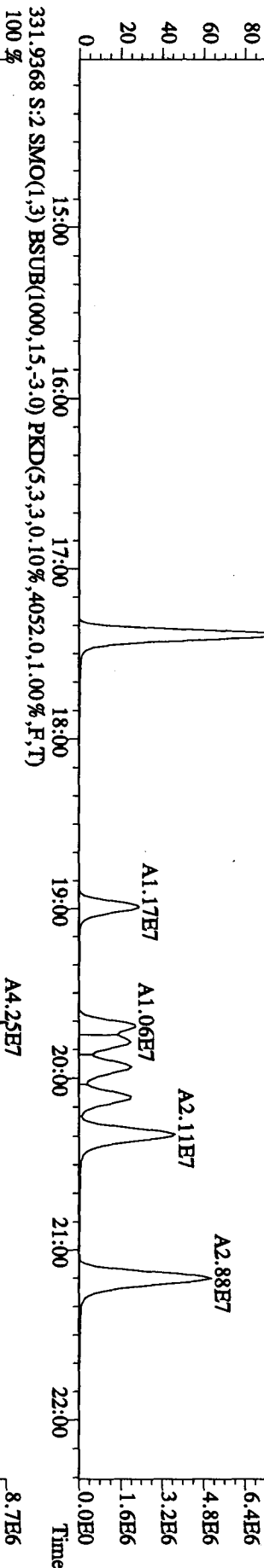
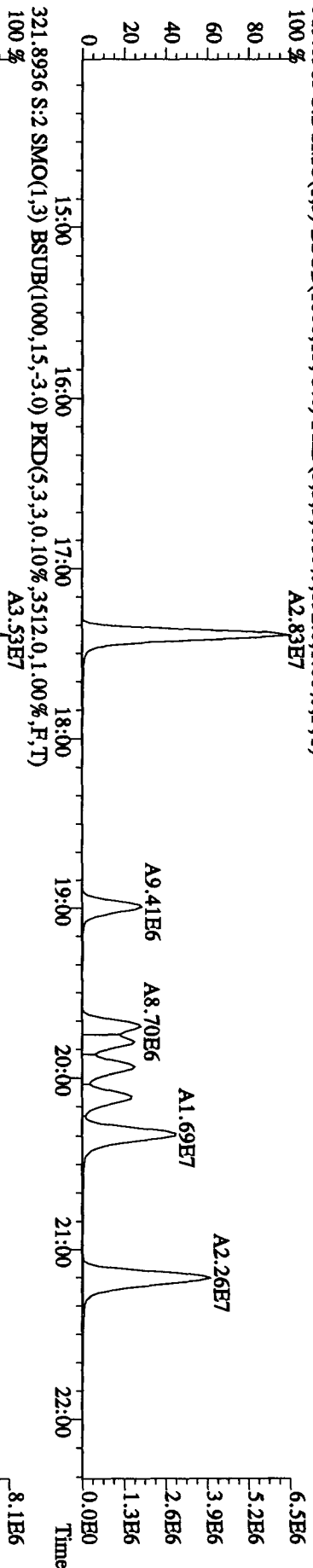
File: 22DB09A4D5 #1-281 Acq: 22-DEC-2009 21:26:07 GC EI+ Voltage SIR Autospec-Ultimate
 Sample #1 Text: ST1222B :CS3 09DXN384 Exp: DIOXIN
 454.9728 F: 5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 22DE09A4D5 #1-578 Acq: 22-DEC-2009 22:10:09 GC EI + Voltage SIR Autospec-Ultimate
 Sample#2 Text: CP1222A :DB-5 CPSM 3732-03 Exp: DIOXIN
 303.9016 S: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1796,0,1.00%,F,T)
 100 %



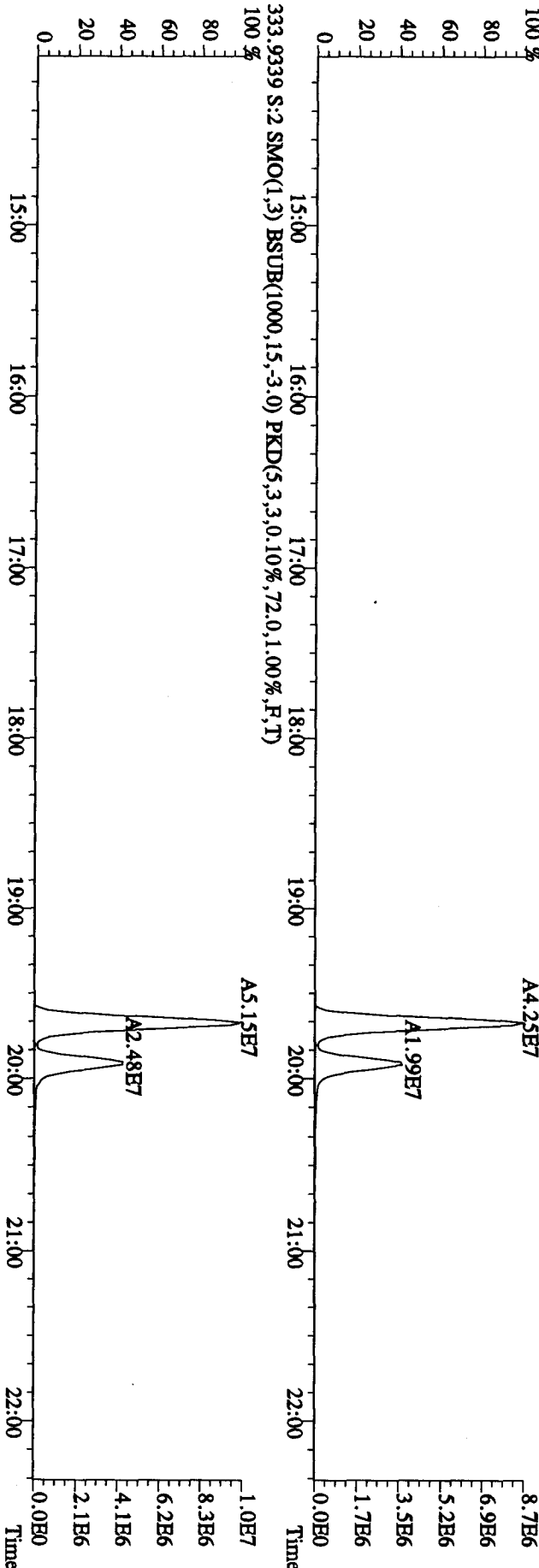
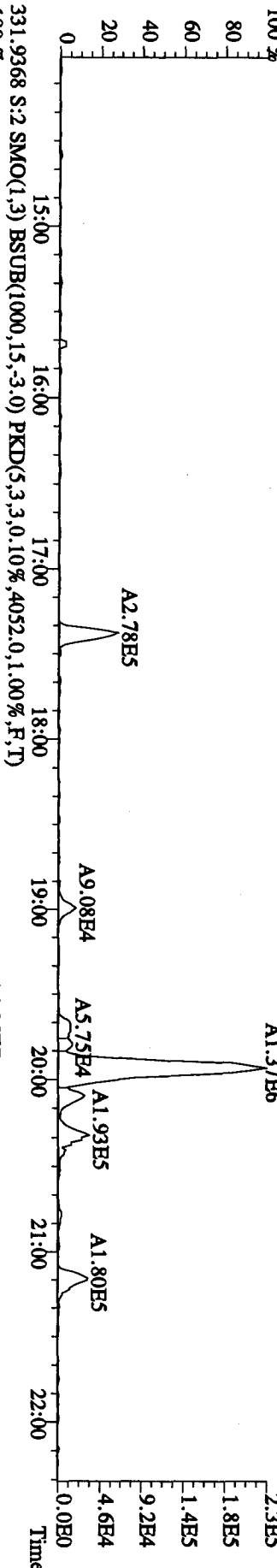
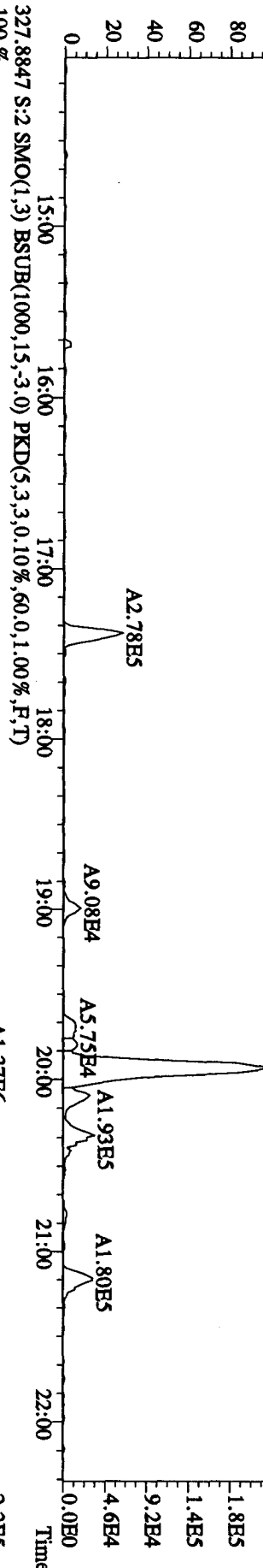
File:22DE09A4D5 #1-578 Acq:22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:CP1222A :DB-5 CPSM 3732-03 Exp.:DIOXIN
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,892.0,1.00%,F,T)
 100 % A2.83E7



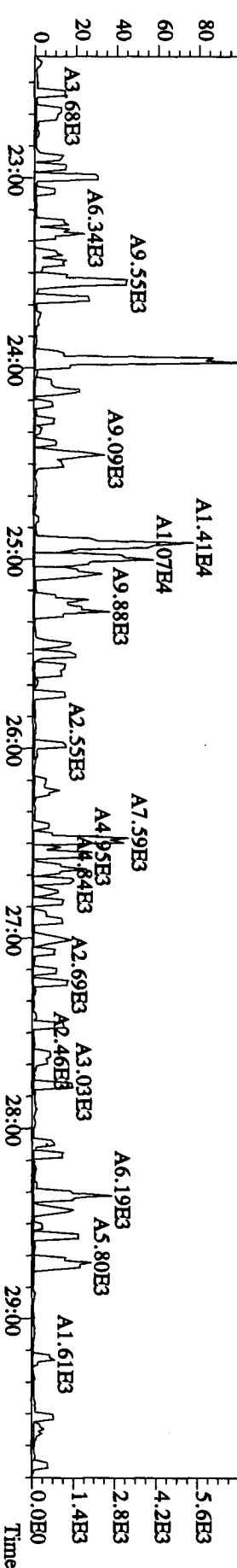
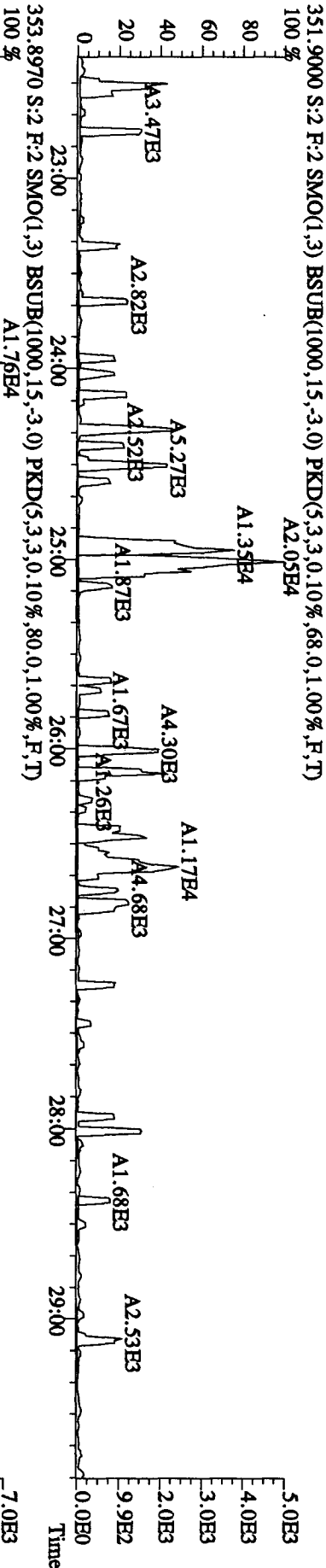
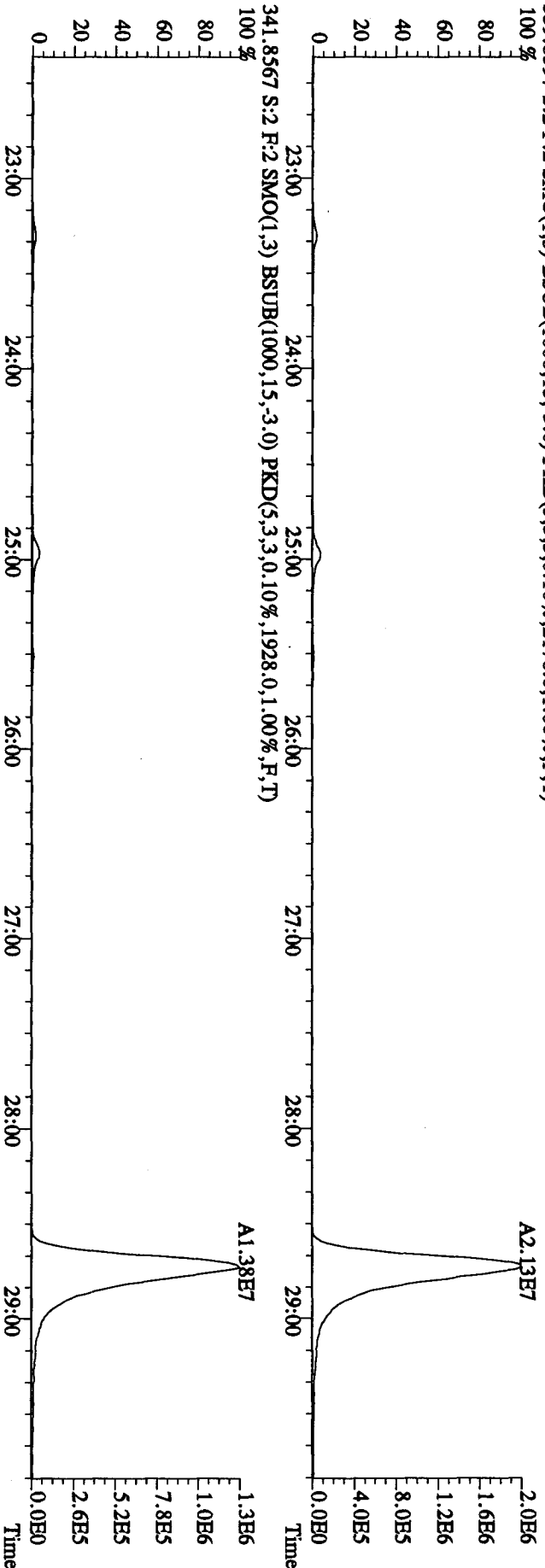
File:22DB09A4D5 #1-578 Acq:22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaB

Sample#2 Text:CP1222A :DB-5 CPSM 3732-03 Exp:DIOXIN

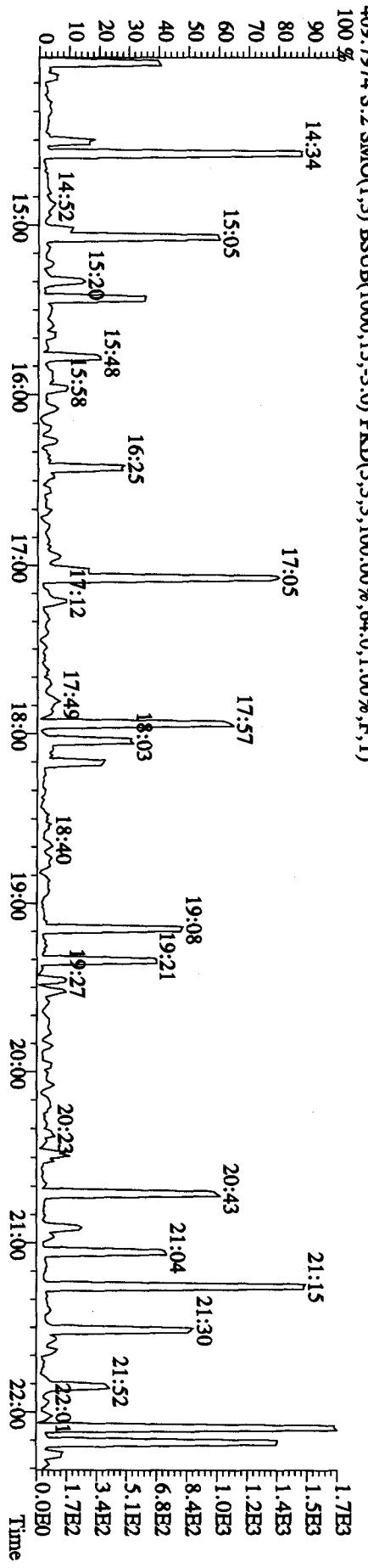
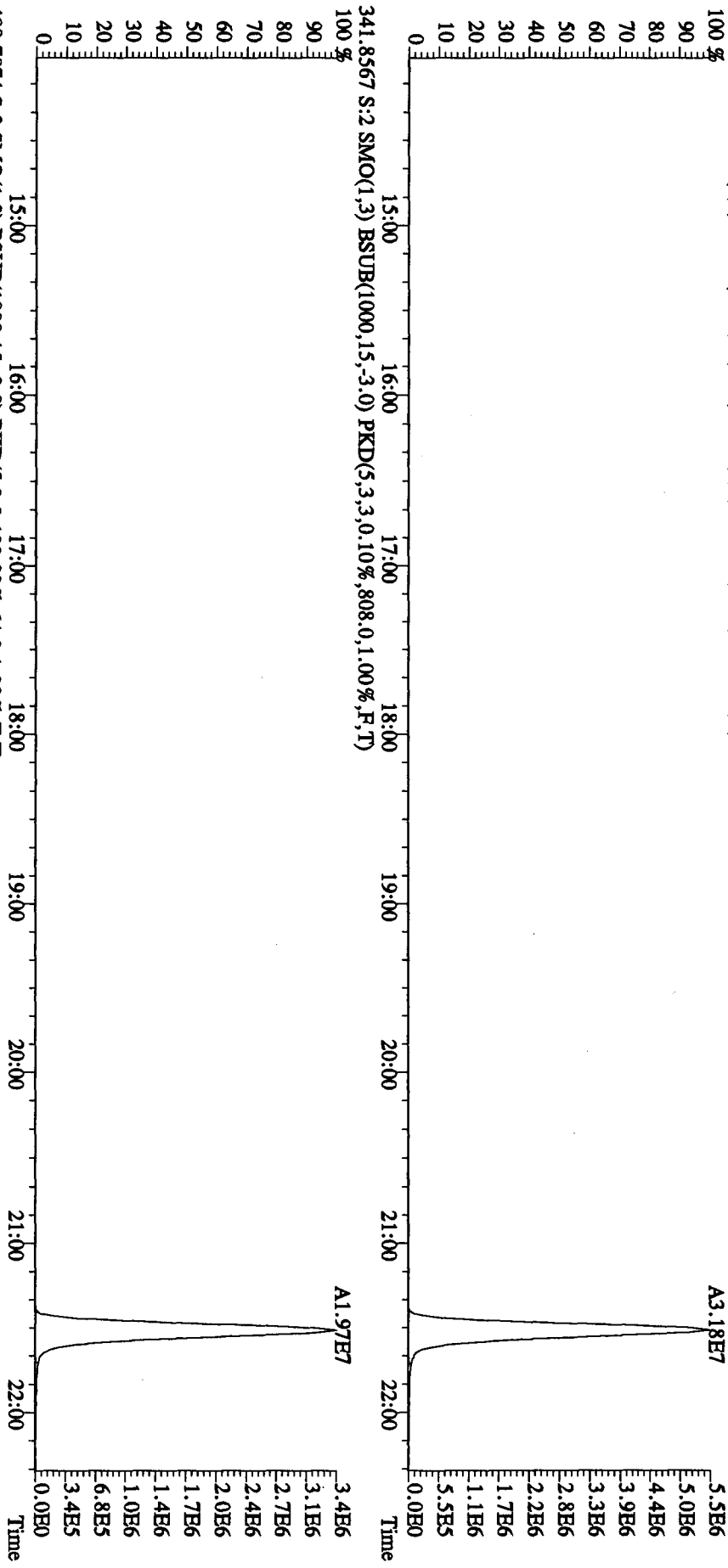
327.8847 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)



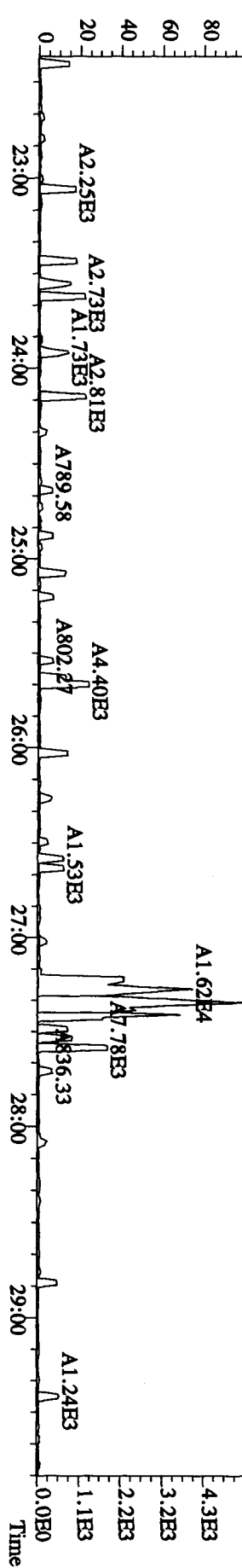
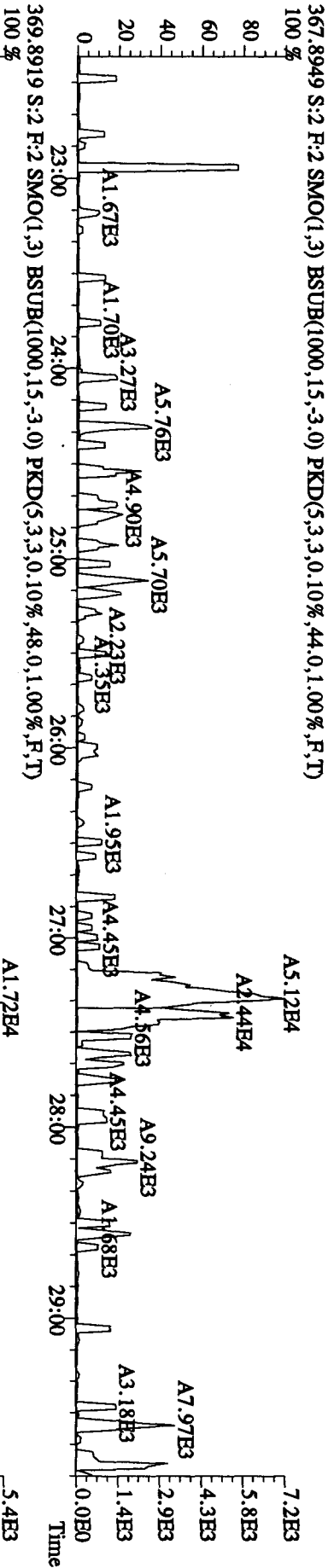
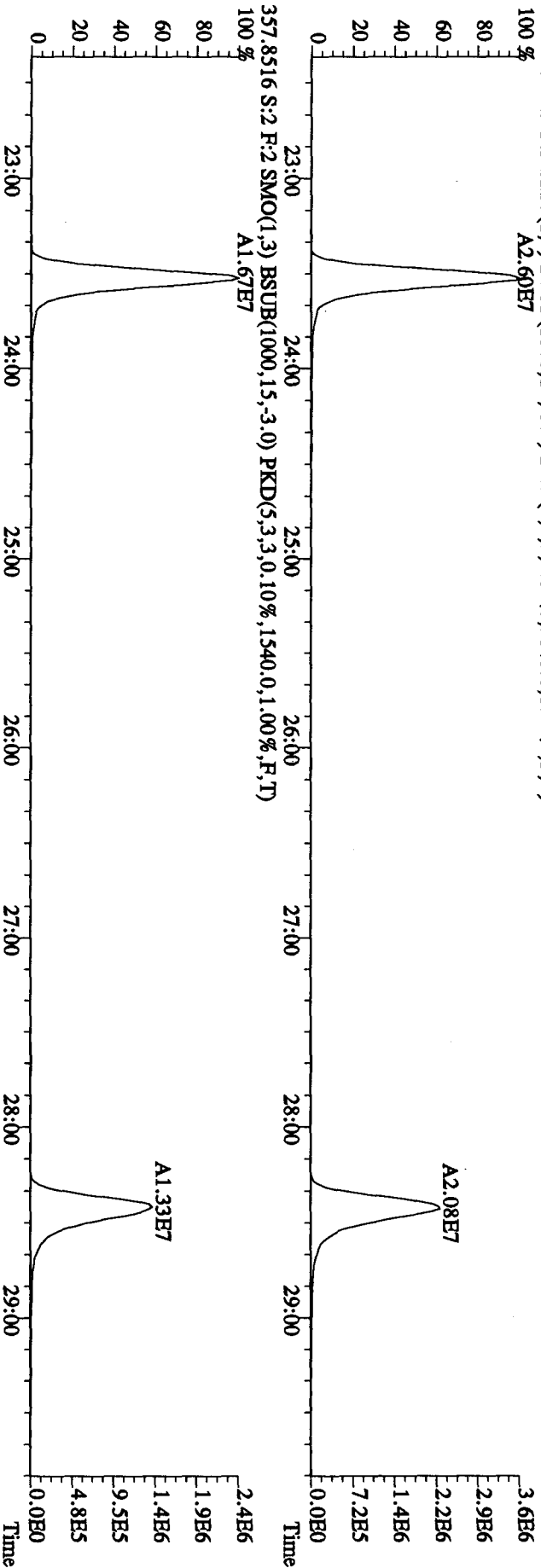
File:22DE09A4D5 #1-596 Acq:22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:CP1222A :DB-5 CP/SM 3732-03 Exp:DIOXIN
 339.8597 S:2 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2176,0,1,00%,F,T) 100 %



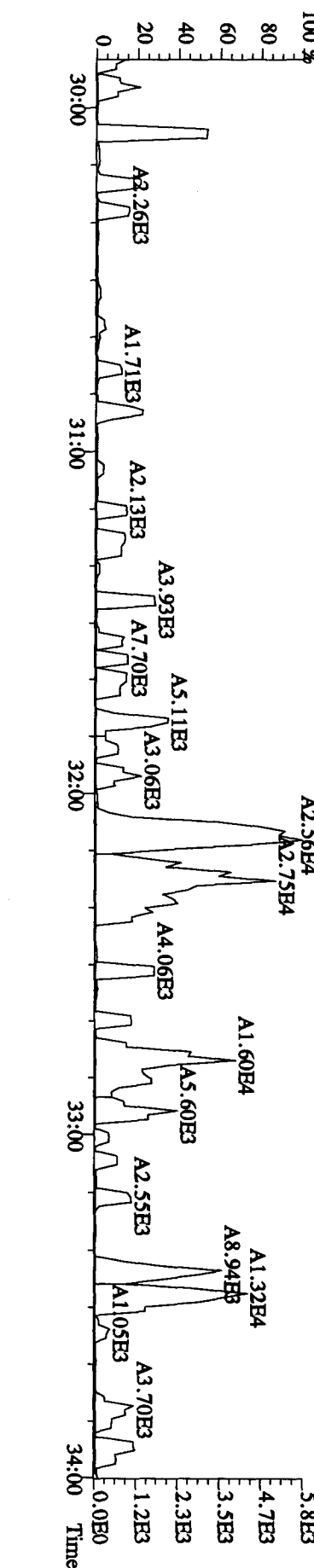
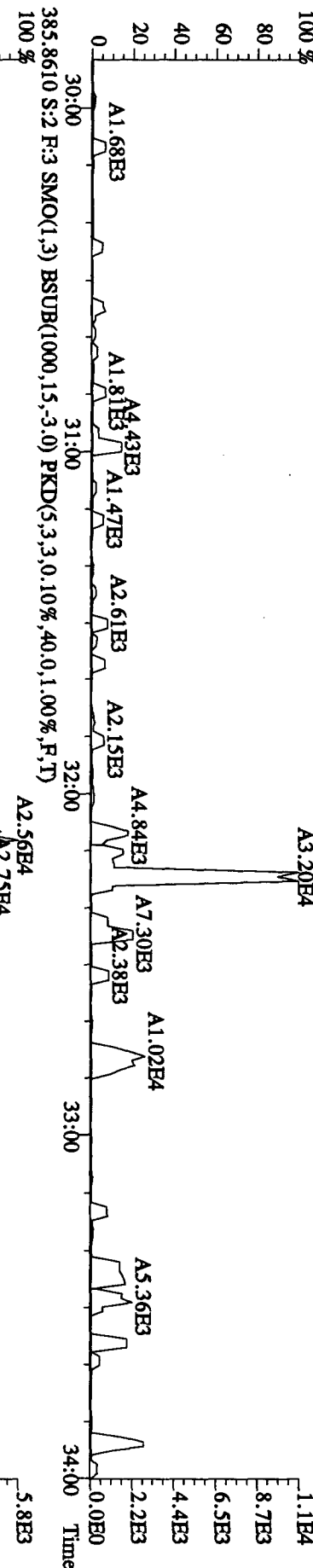
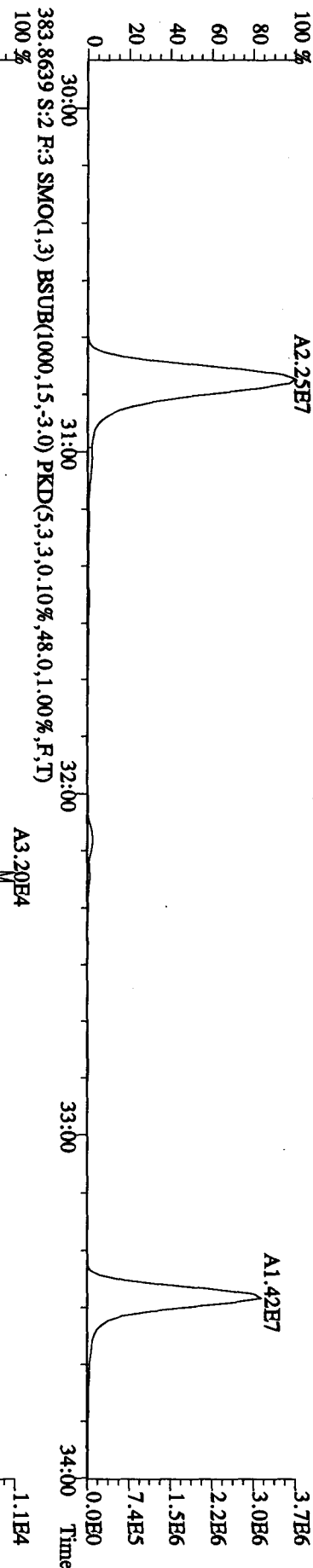
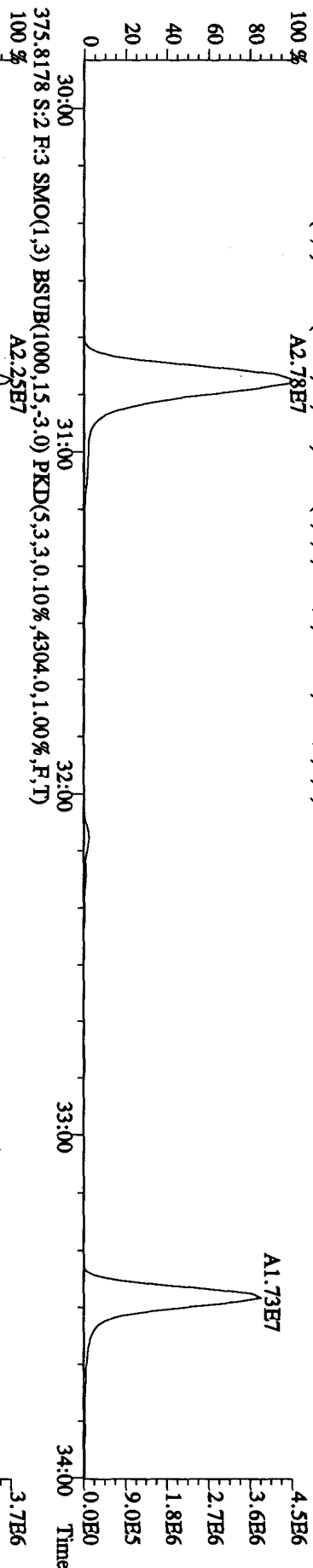
File: 22DB09A4D5 #1-578 Acq: 22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text: CP1222A :DB-5 CPSM 3732-03 Exp: DIOXIN
 339.8597 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,68.0,1.00%,F,T) 100%



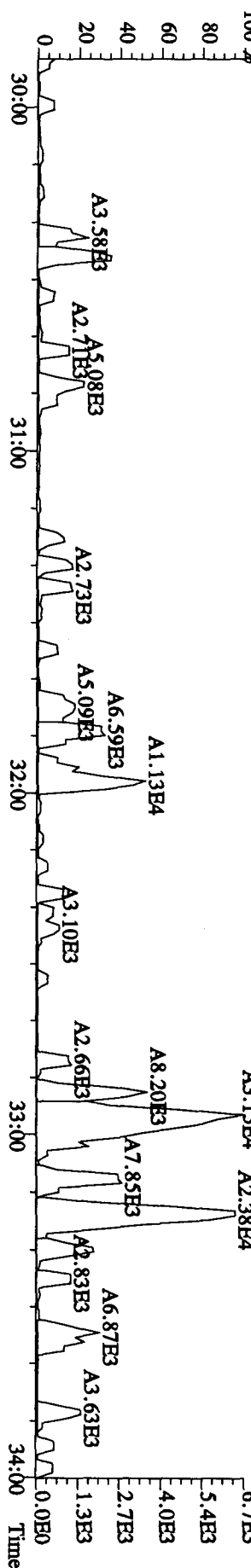
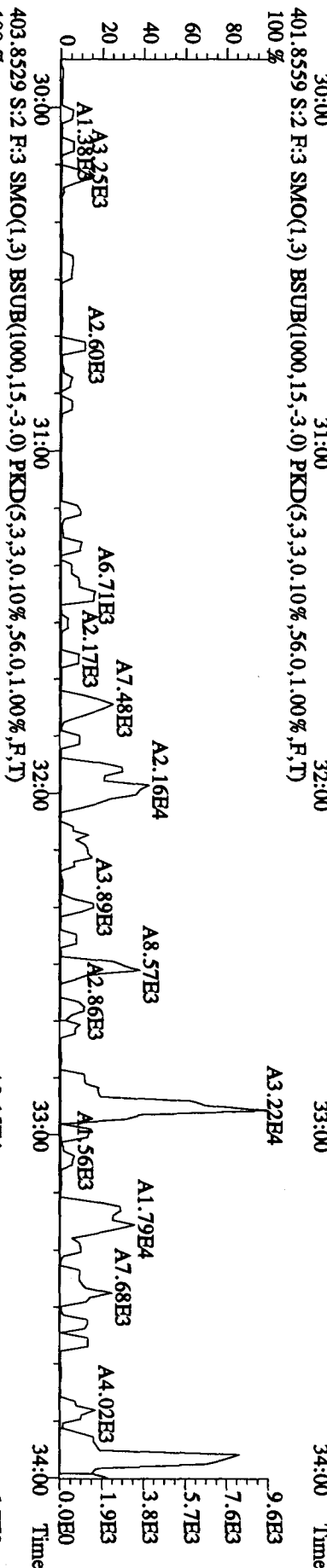
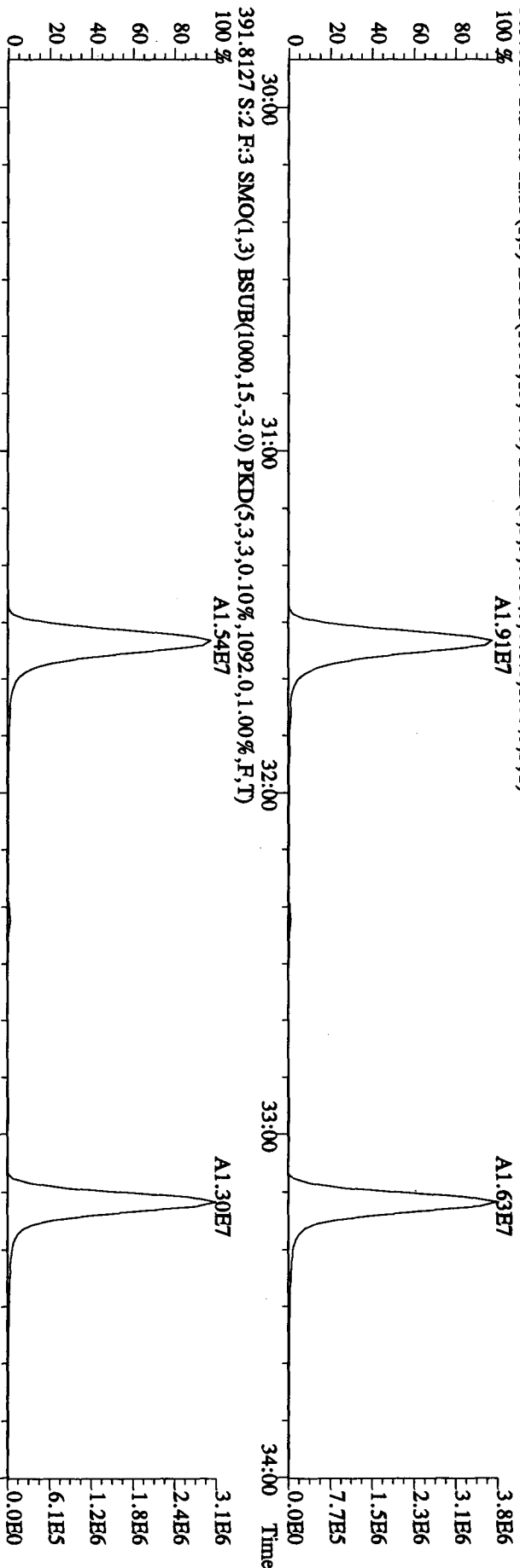
File: 22DE09A4D5 #1-596 Acq: 22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text: CP1222A :DB-5 CPSM 3732-03 Exp: DIOXIN
 355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3848,0,1,00%,F,T)
 100%



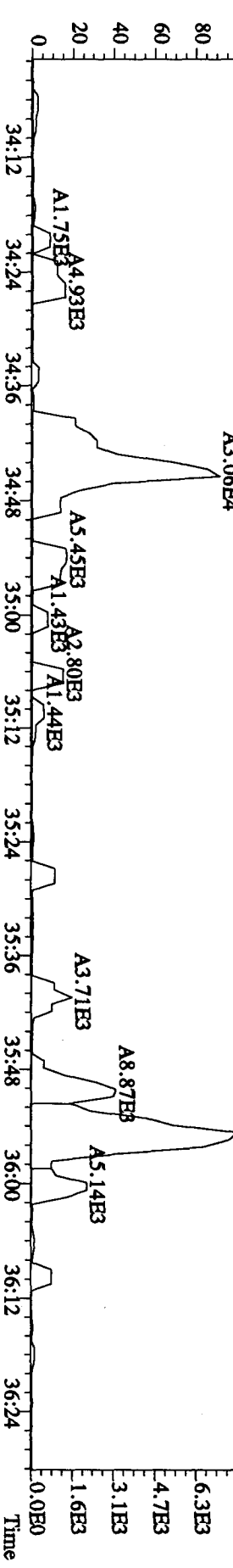
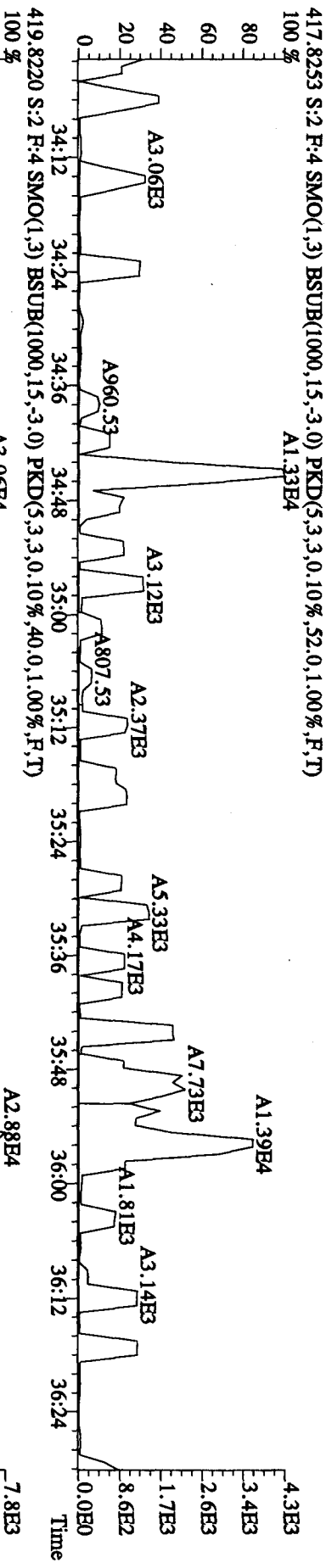
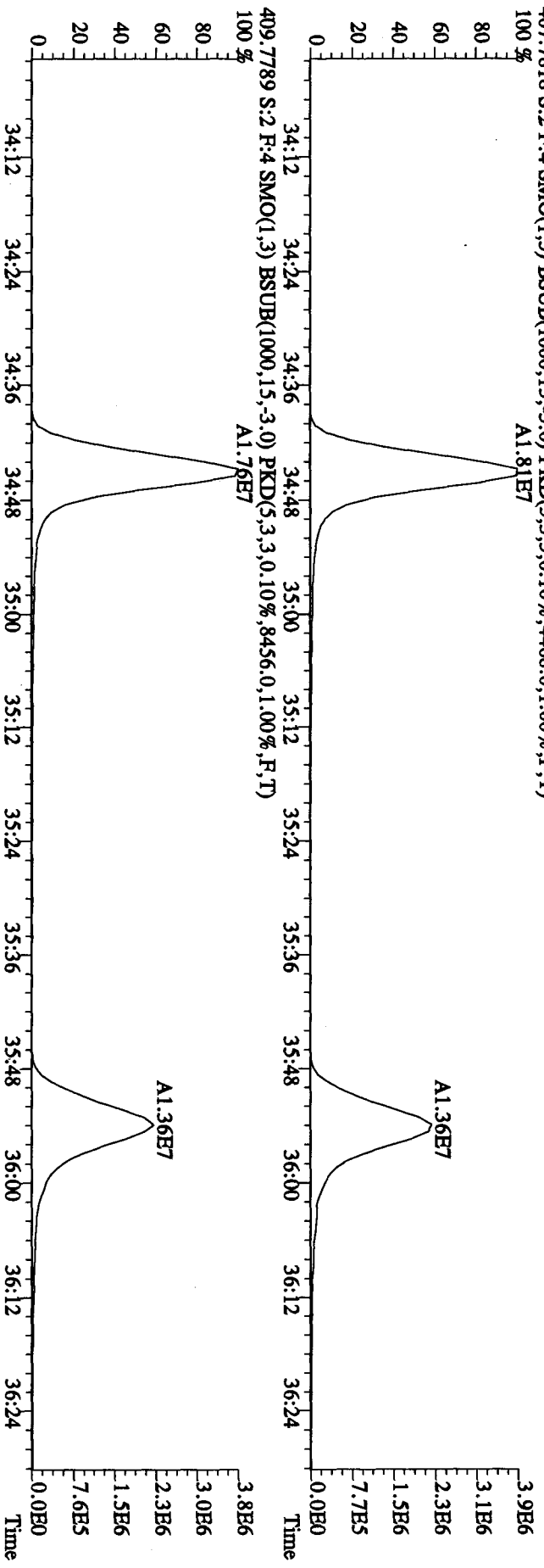
File:22DE09A4D5 #1-314 Acq:22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:CP1222A :DB-5 CPSM 3732-03 Exp:DIOXIN
 373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2908,0,1,00%,F,T)
 100 %



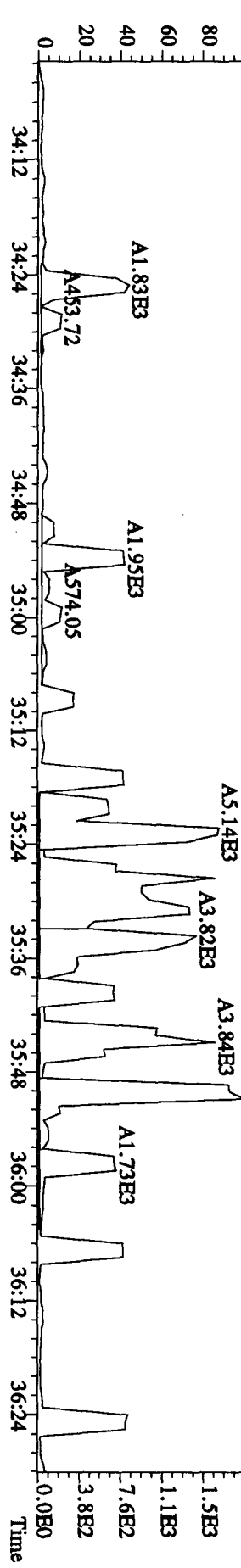
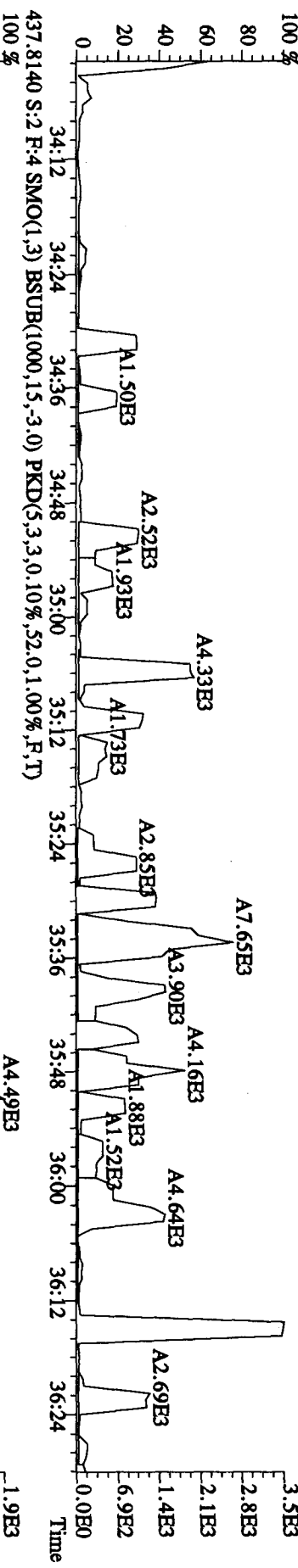
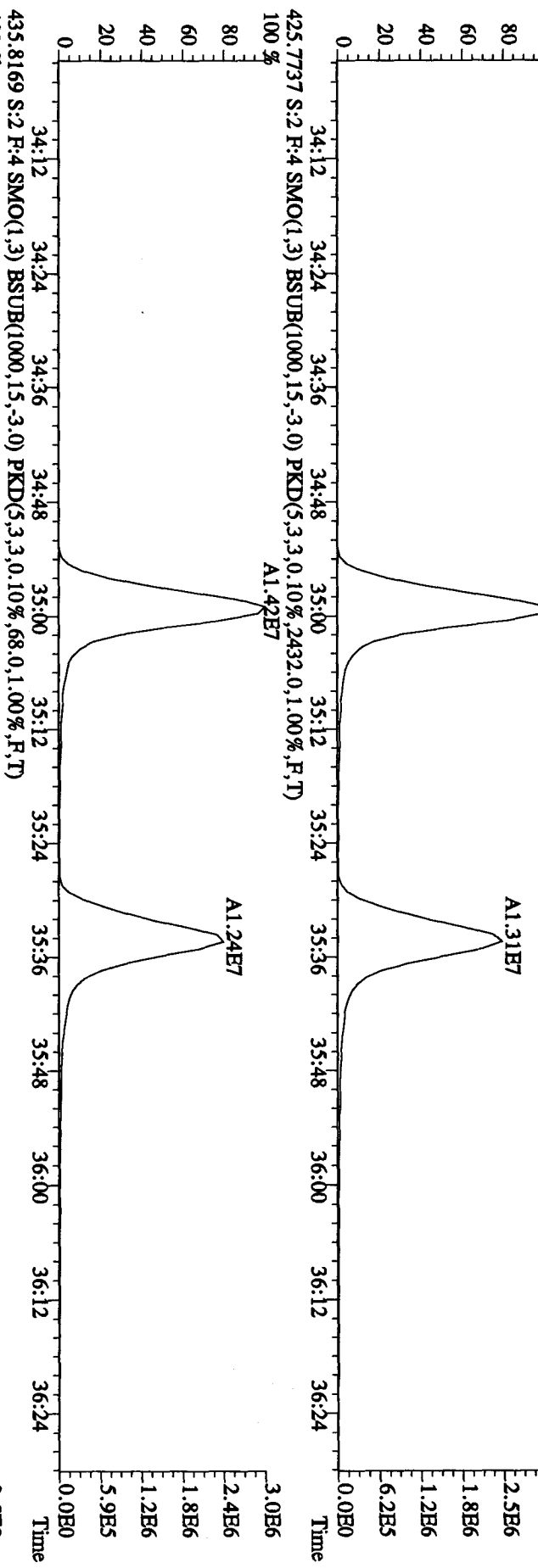
File:22DB09A4D5 #1-314 Acq:22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:CP1222A :DB-5 CP5M 3732-03 Exp:DIOXIN
 389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,440,0,1.00%,F,T)
 A1.91E7



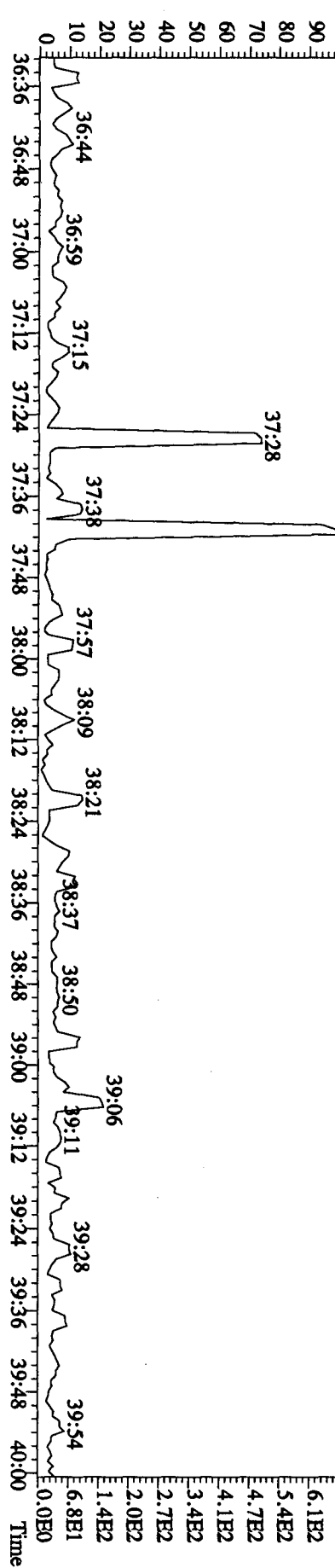
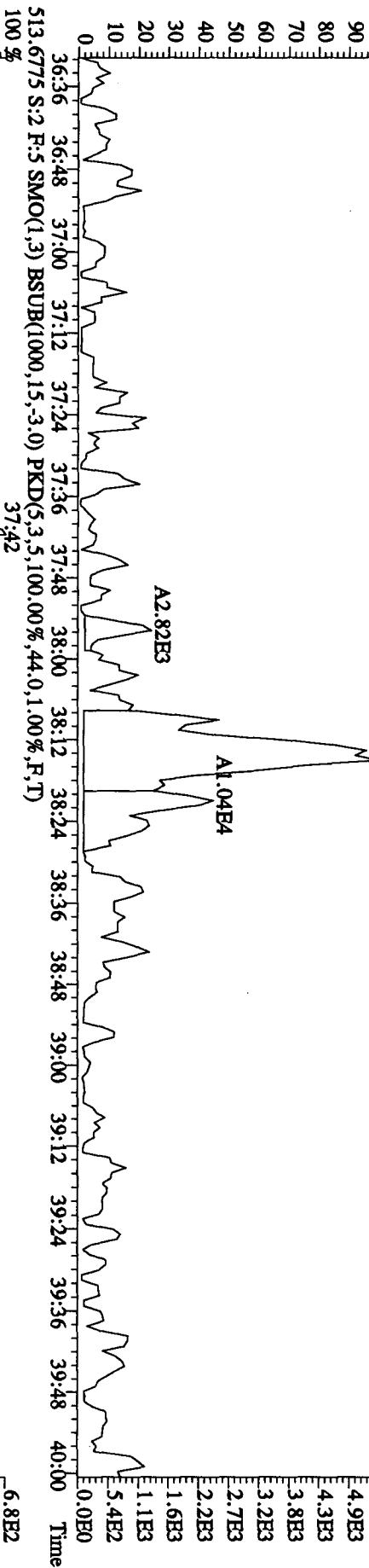
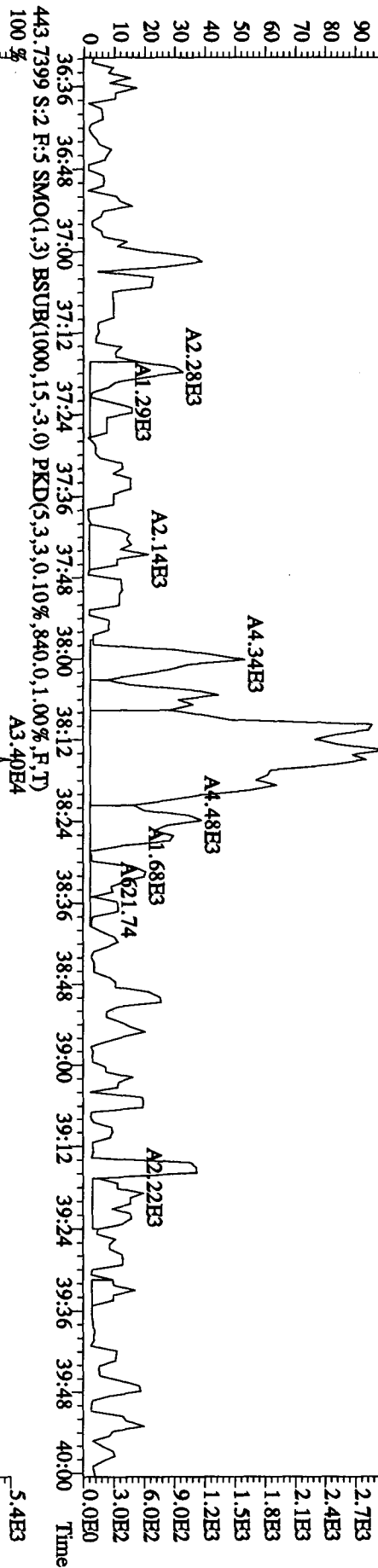
File: 22DE09A4D5 #1-198 Acq: 22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text: CP1222A :DB-5 CPSM 3732-03 Exp: DIOXIN
 407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4468,0,1,00%,F,T)
 100% A1.81E7



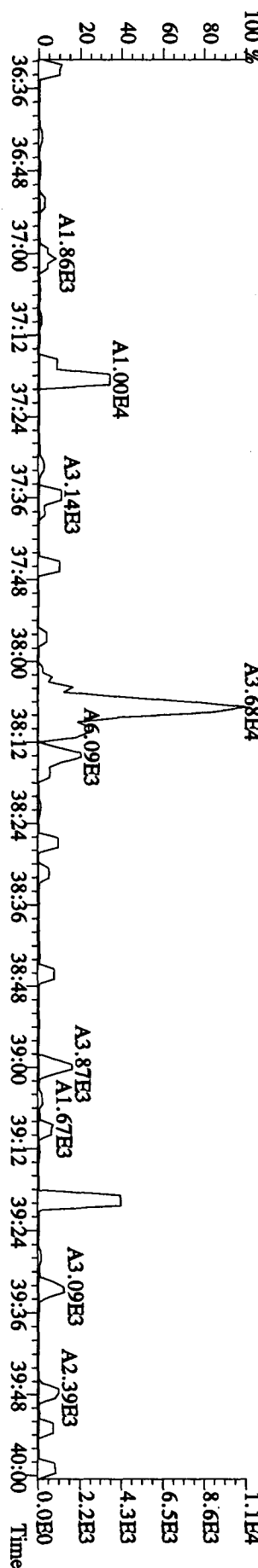
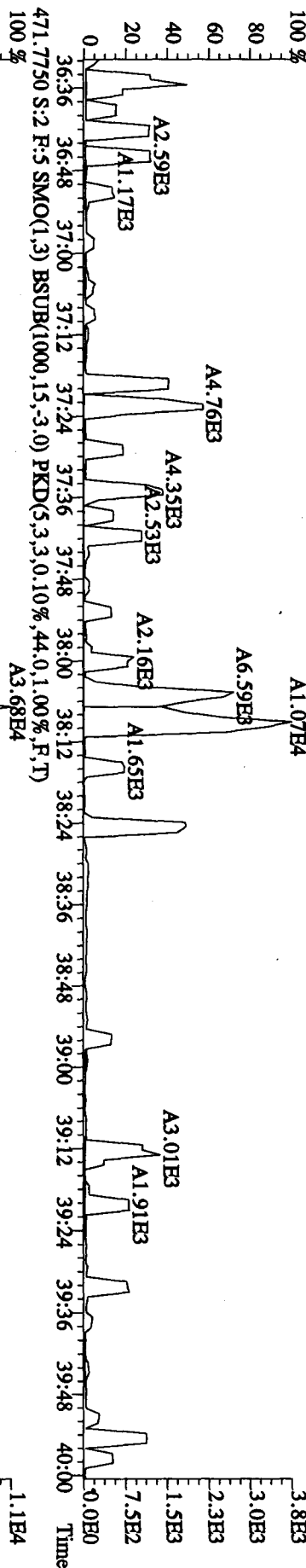
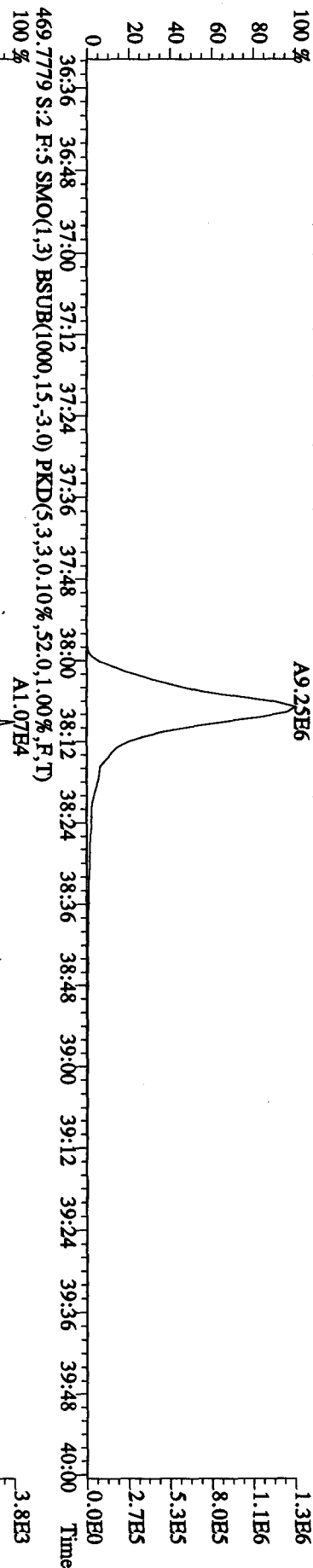
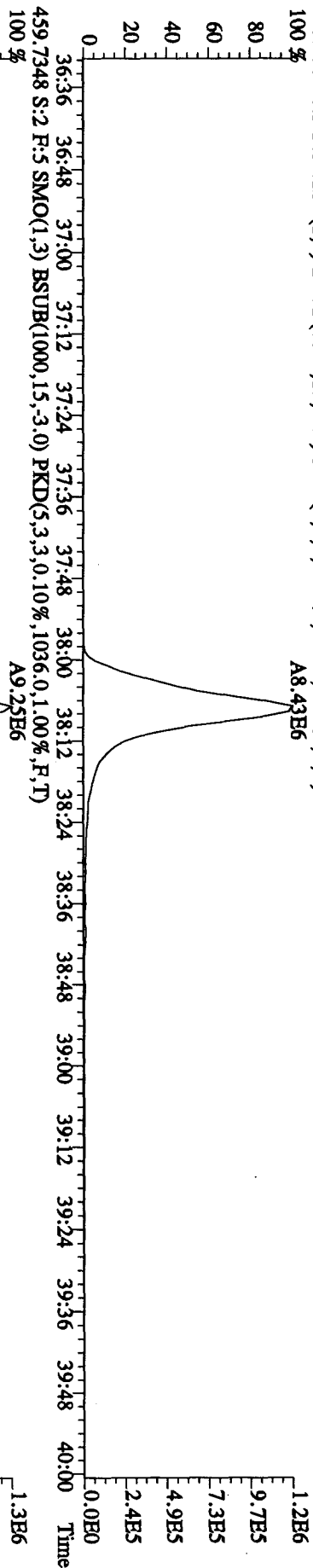
File:22DE09A4D5 #1-198 Acq:22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:CP1222A :DB-5 CPSM 3732-03 Exp:DIOXIN
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1096,0,1,00%,F,T)
 100%



File: 22DDE09A4D5 #1-282 Acq: 22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-Ultimate
 Sample# 2 Text: CP1222A :DB-5 CRSM 3737-03 Exp: DIOXIN
 441.7428 S: 2 F: 5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,408,0,1,00%,F,T) A2.70E4



File: 22DBE09A4D5 #1-282 Acq: 22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text: CP1222A :DB-5 CPSM 3732-03 Exp: DIOXIN
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,520,0,1,00%,F,T) 100%
 A8.43E6

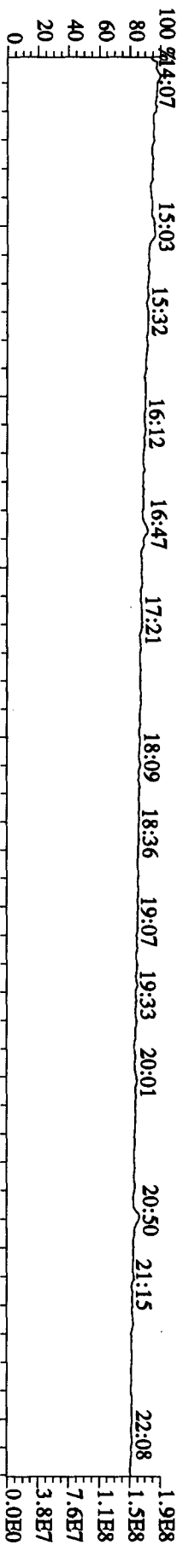


File:22DDE09A4D5 #1-578 Acq:22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaE

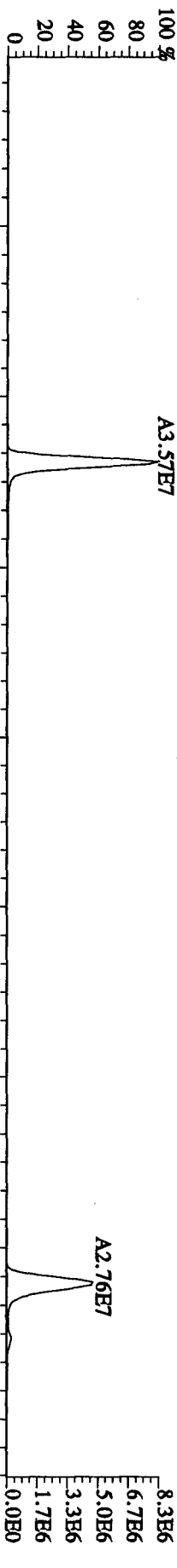
Sample#2 Text:CP1222A :DB-5 CPSM 3732-03 Exp:DIOXIN

292.9825 S:2 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)

100% 14:07 15:03 15:32 16:12 16:47 17:21 18:09 18:36 19:07 19:33 20:01 20:50 21:15 22:08



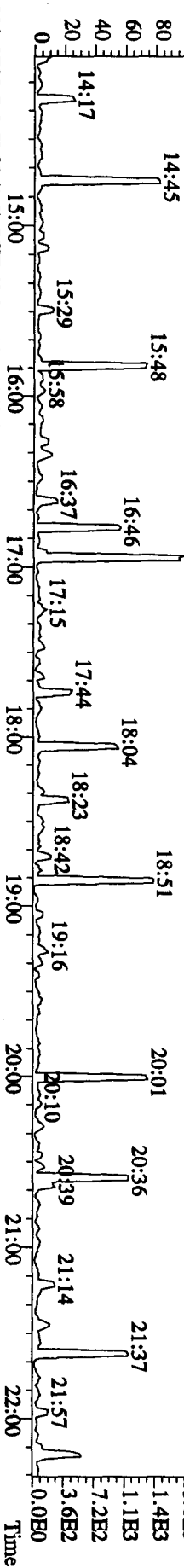
303.9016 S:2 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,1796,0,1,00%,F,T)



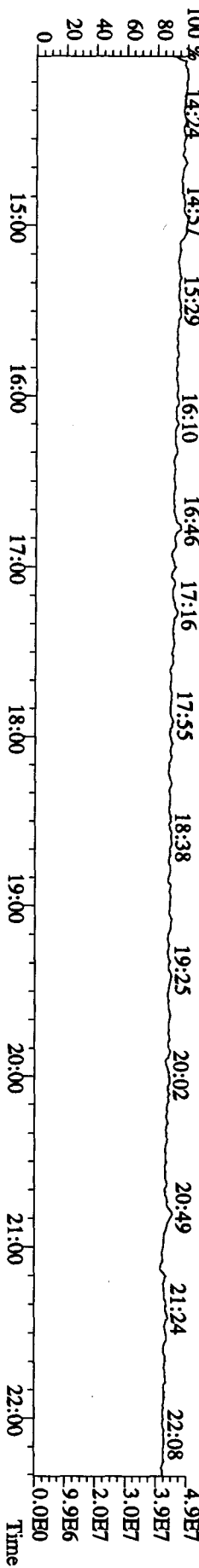
305.8987 S:2 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,2564,0,1,00%,F,T)



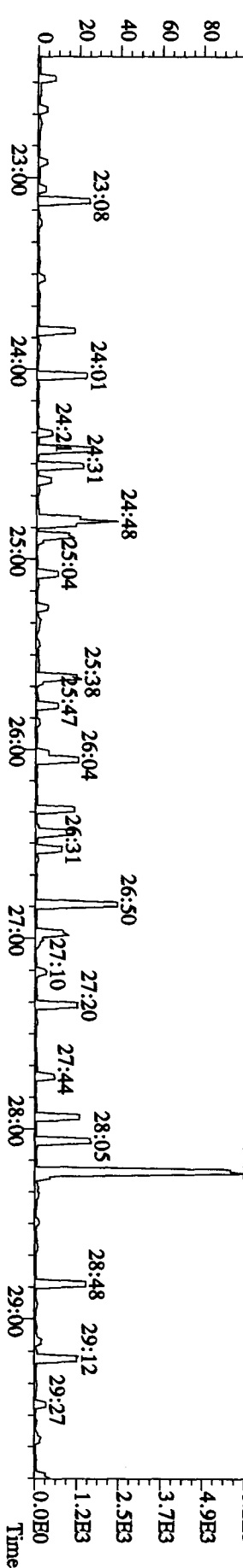
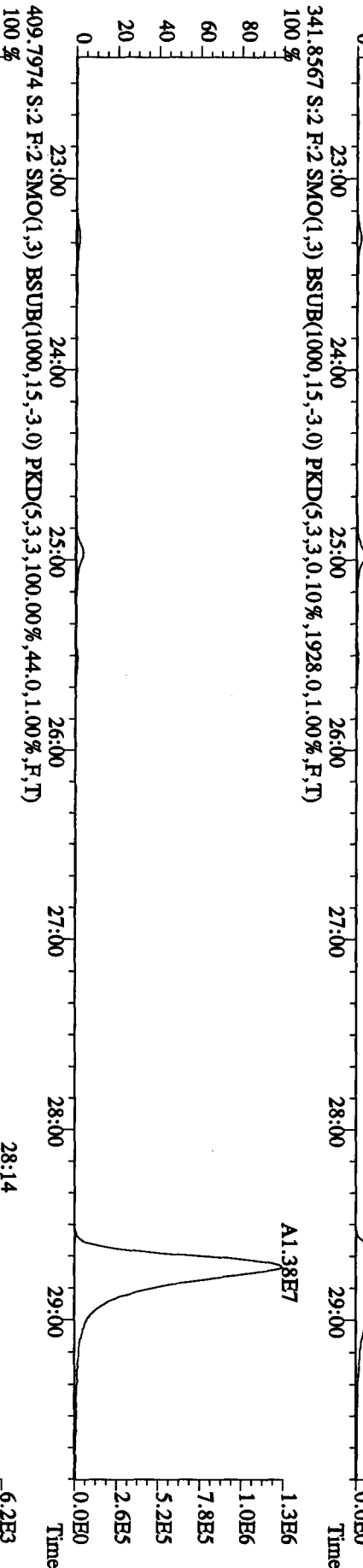
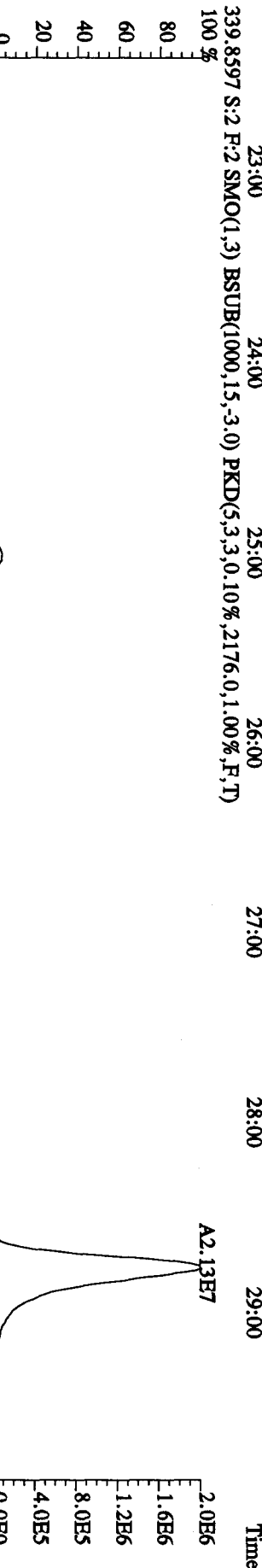
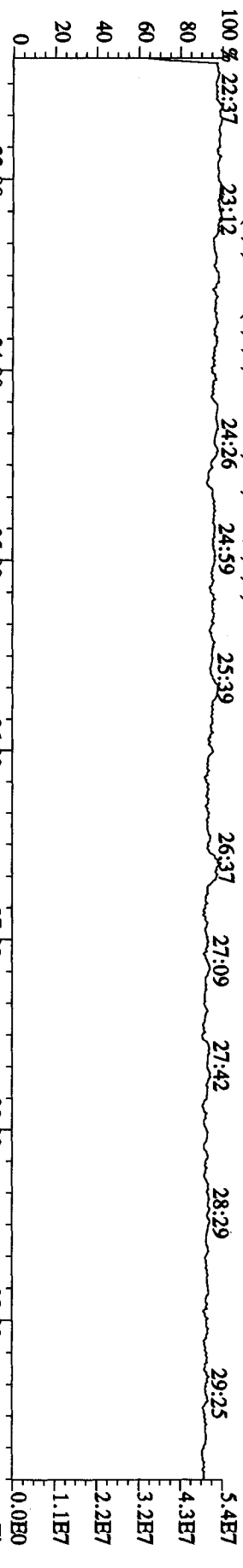
375.8364 S:2 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,100,00%,76,0,1,00%,F,T)



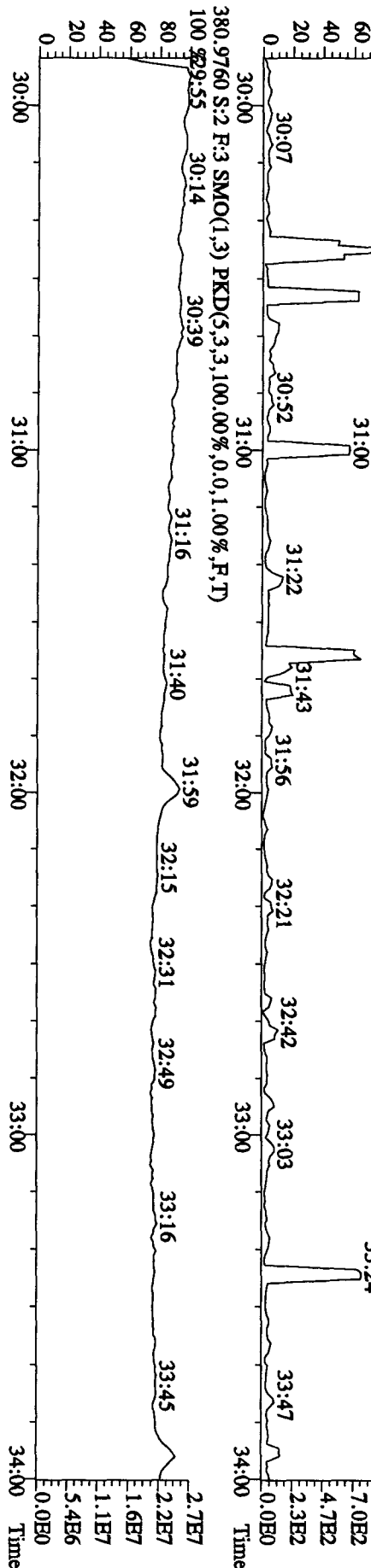
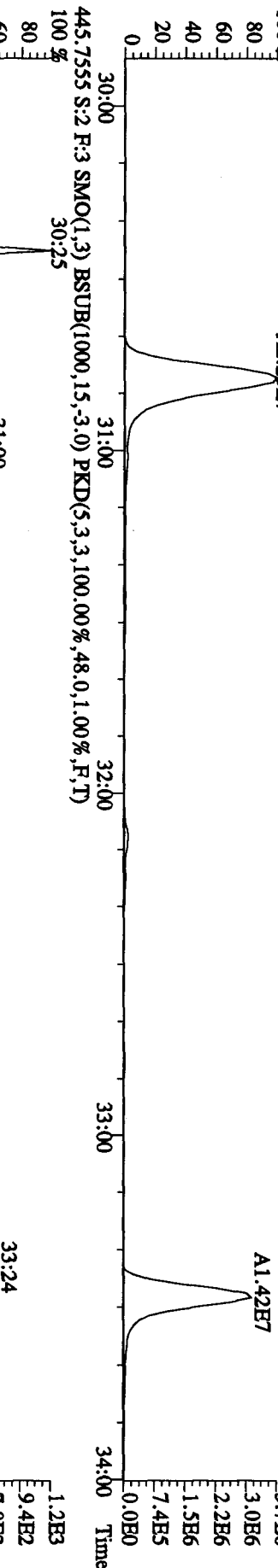
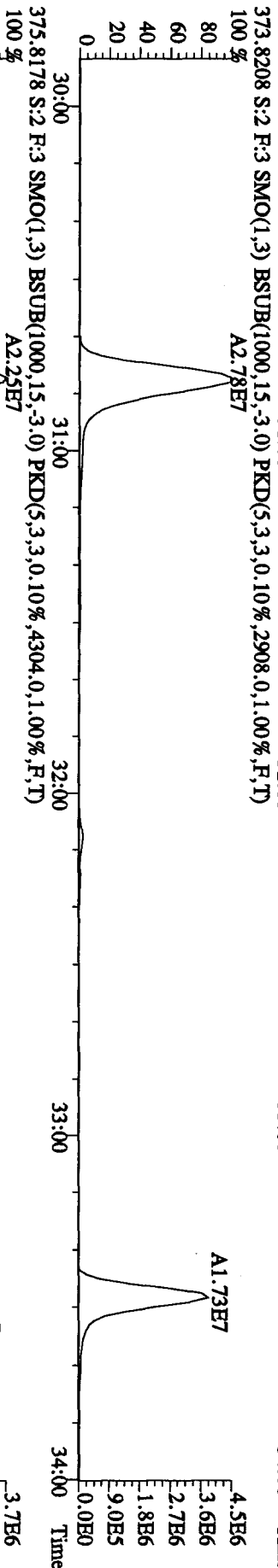
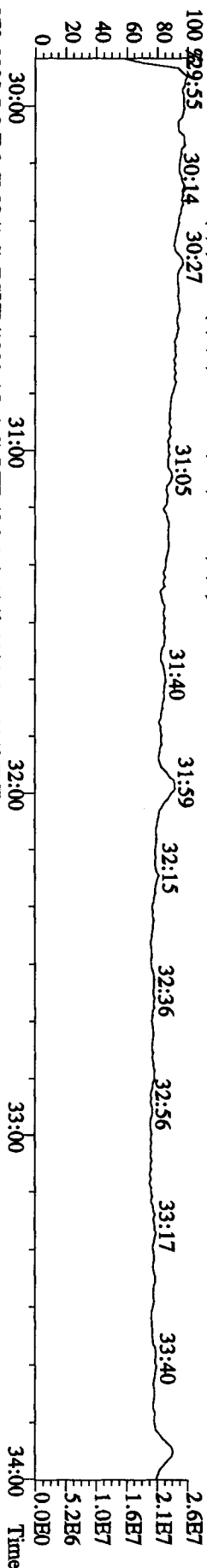
330.9792 S:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



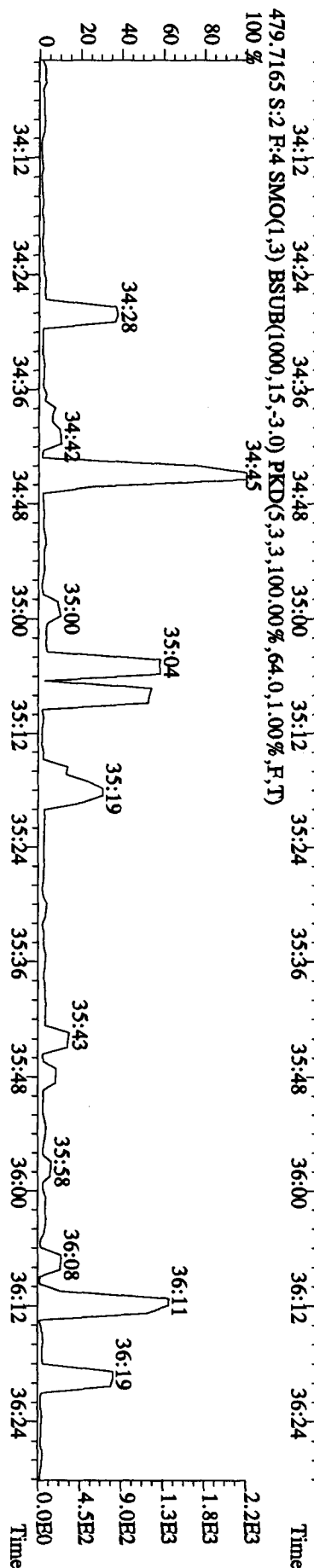
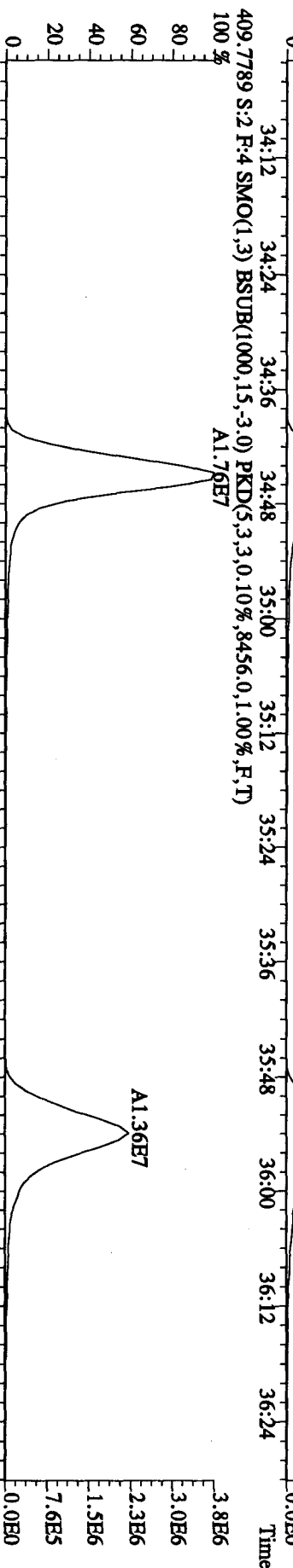
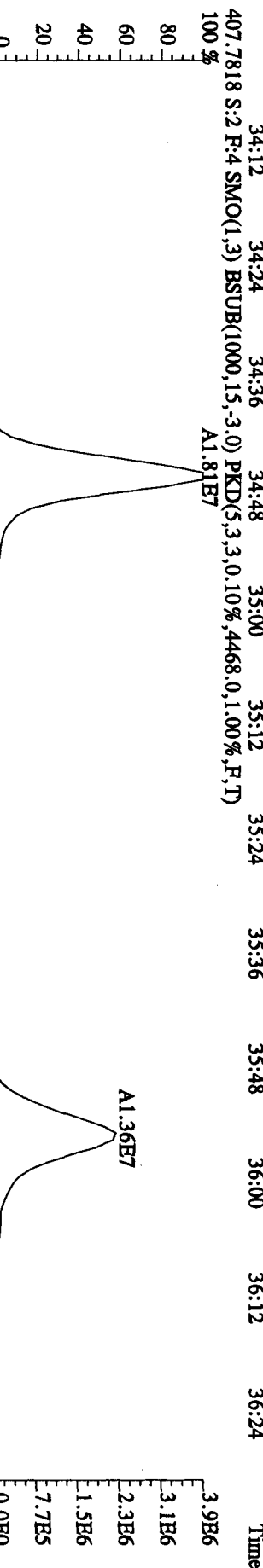
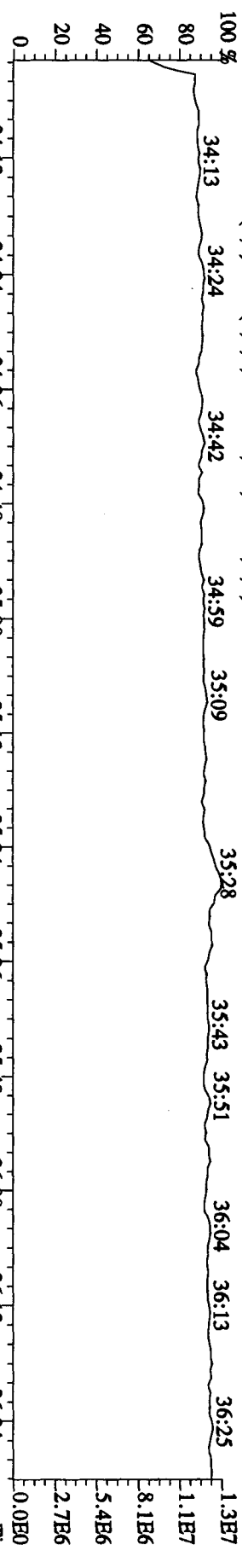
File: 22DE09A4D5 #1-596 Acq: 22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text: CP1222A :DB-5 CPSM 3732-03 Exp: DIOXIN
 342.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)
 100% 22:37 23:12 24:26 24:59 25:39 26:37 27:09 27:42 28:29 29:25



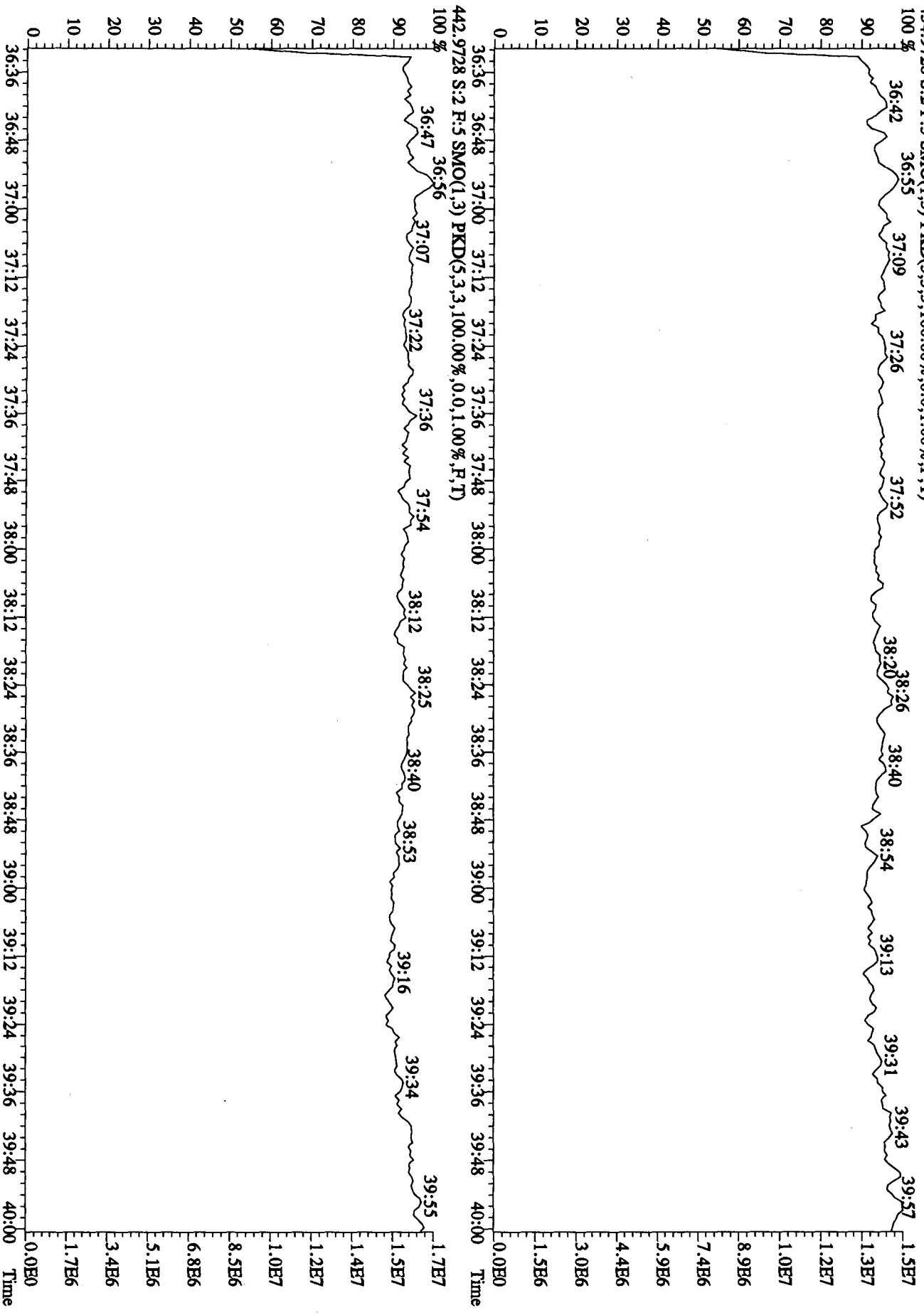
File: 22DB09A4D5 #1-314 Acq: 22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text: CP1222A :DB-5 CPSM 3732-03 Exp: DIOXIN
 392.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 29:55 30:14 30:27



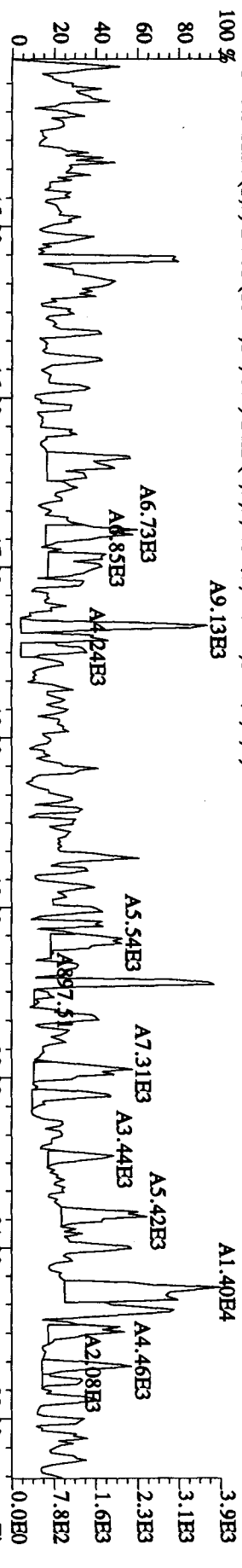
File:22DB09A4D5 #1-198 Acq:22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:CP1222A :DB-5 CP5M 3732-03 Exp:DIOXIN
 430.9728 S:2 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



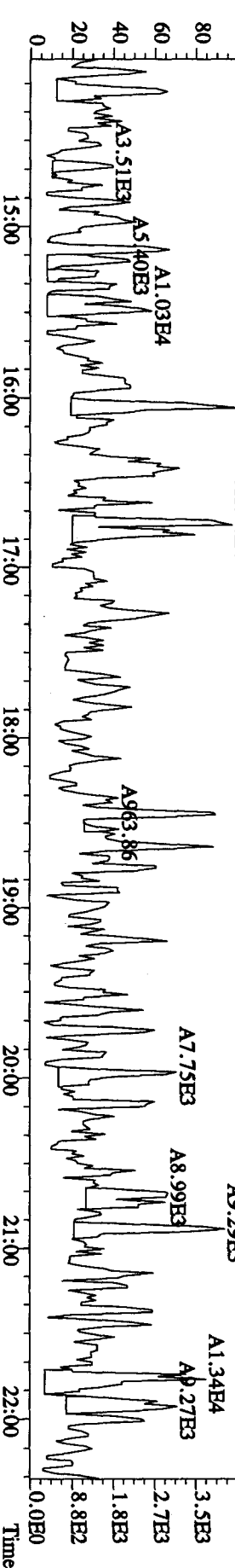
File: 22DE09A4D5 #1-282 Acq: 22-DEC-2009 22:10:09 GC EI+ Voltage SIR Autospec-Ultimate
 Sample# 2 Text: CP1222A :DB-5 CPSM 3733-03 Exp: DIOXIN
 454.9728 S: 2 F: 5 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,1,00%,F,T)



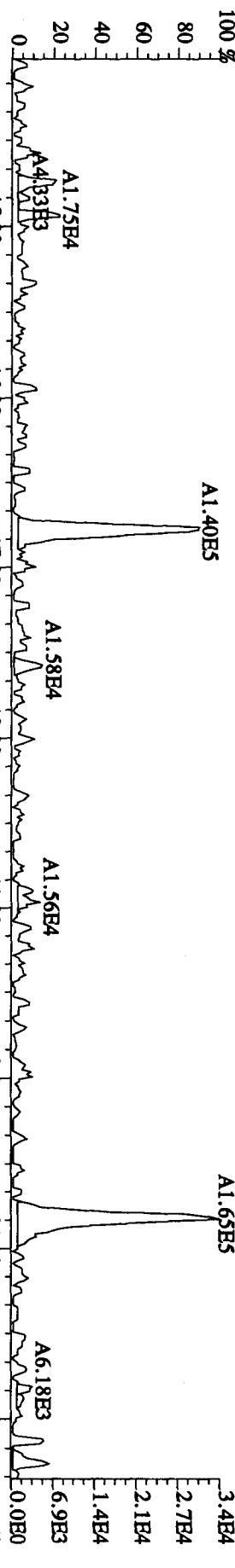
File:22DB09A4D5 #1-578 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-Ultimate
Sample#3 Text:SB1222C :Solvent Blank C-14 Exp:DIOXIN
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1076,0,1,00%,F,T)
100 %



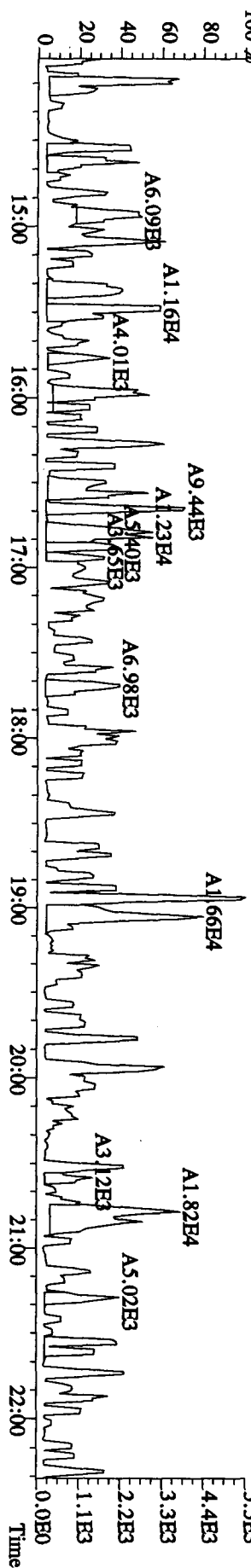
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1376,0,1,00%,F,T)
100 %



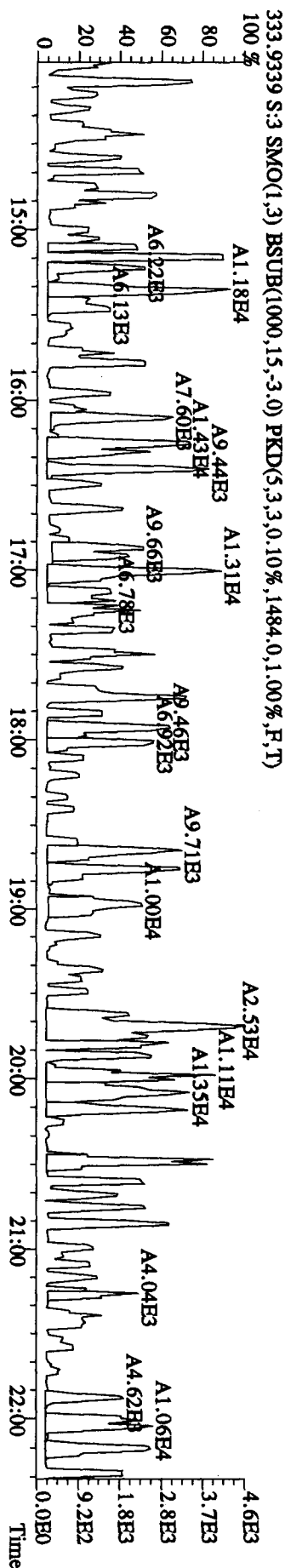
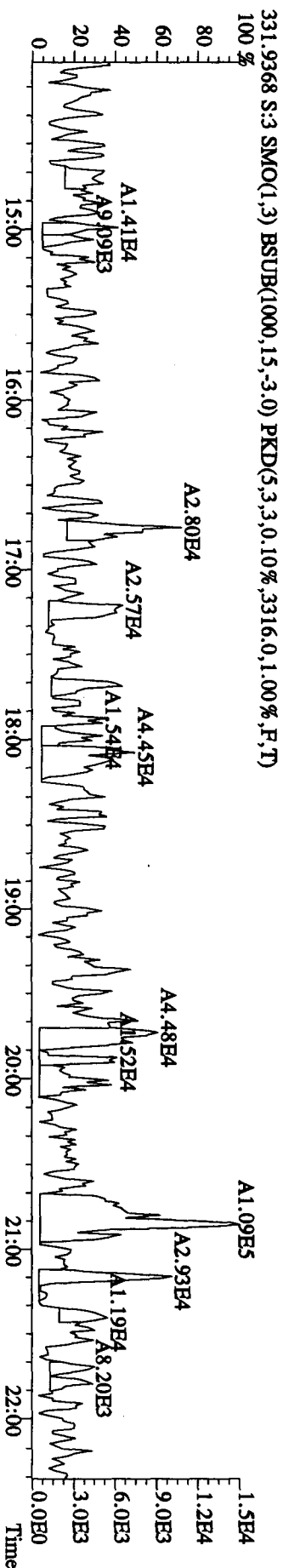
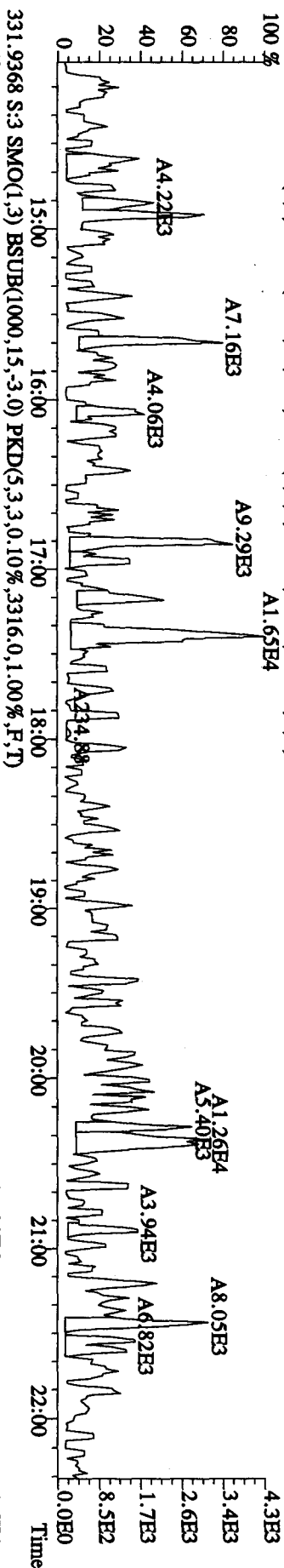
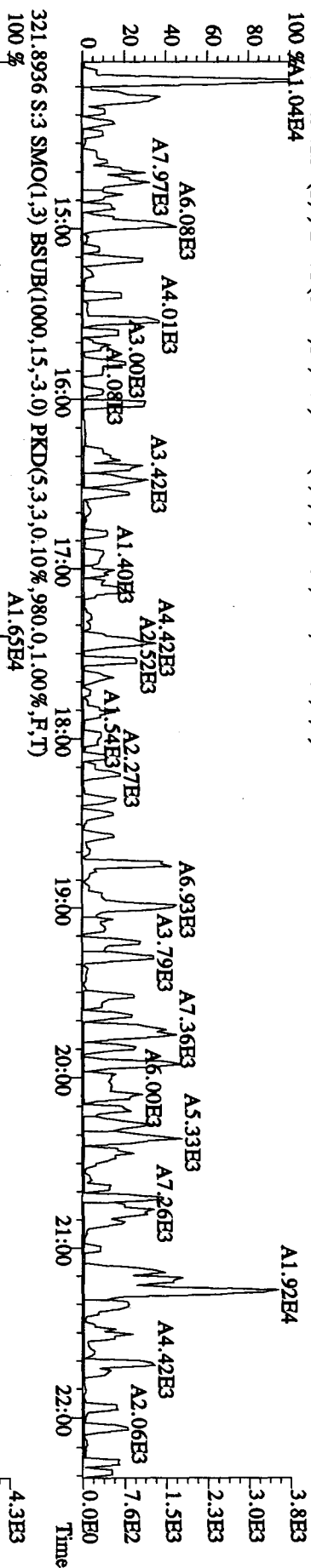
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2588,0,1,00%,F,T)
100 %



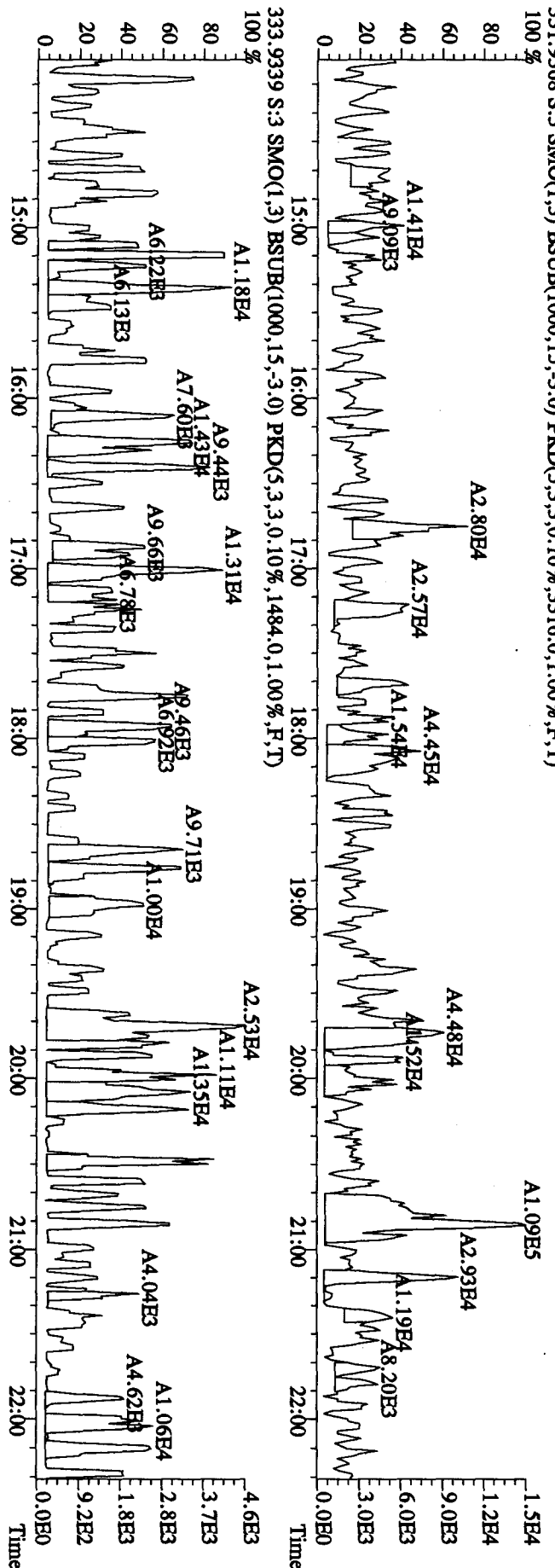
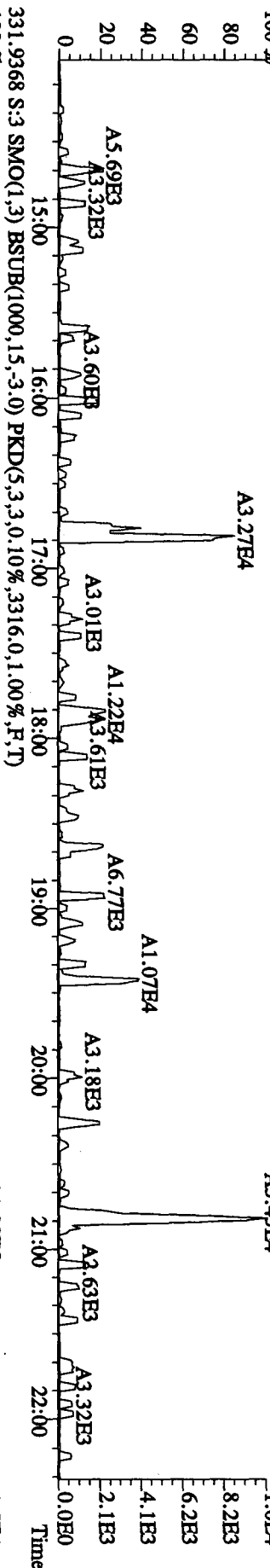
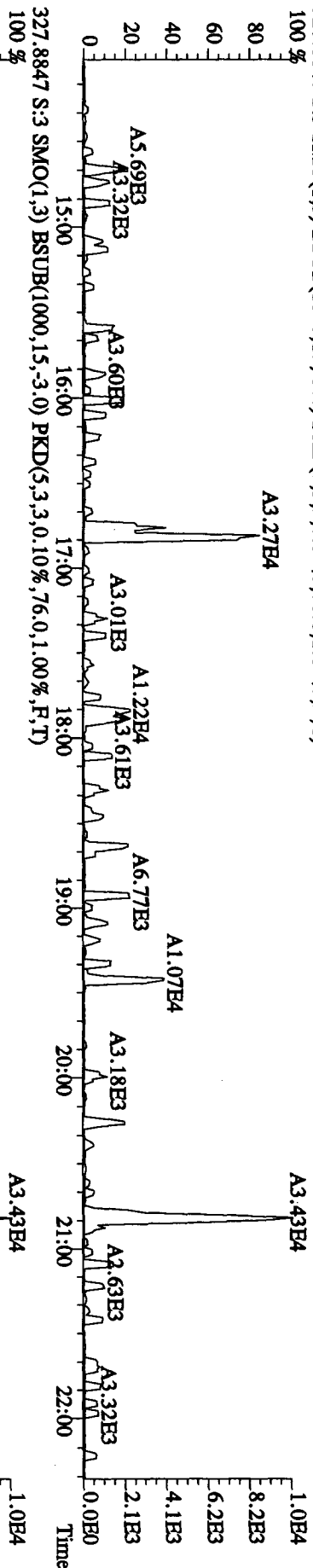
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1484,0,1,00%,F,T)
100 %



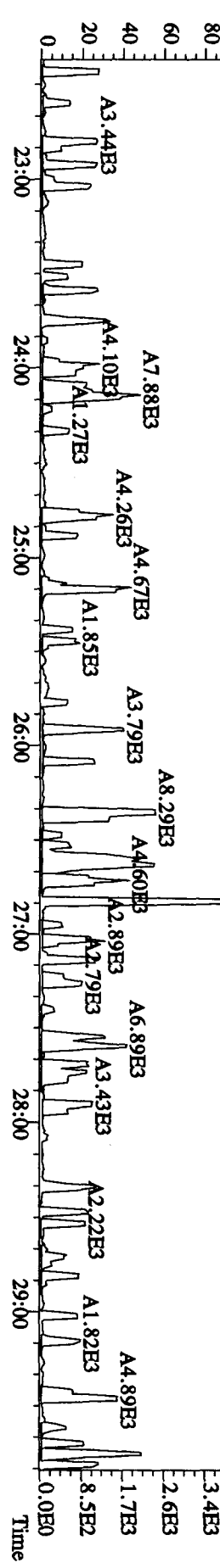
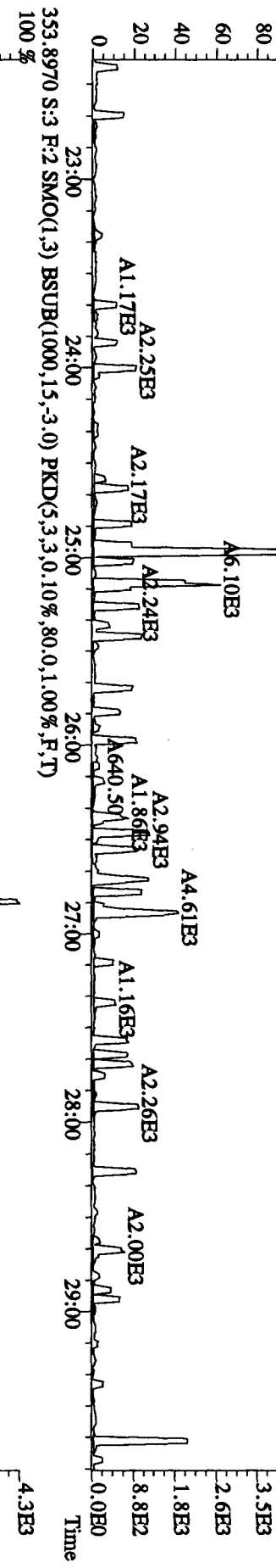
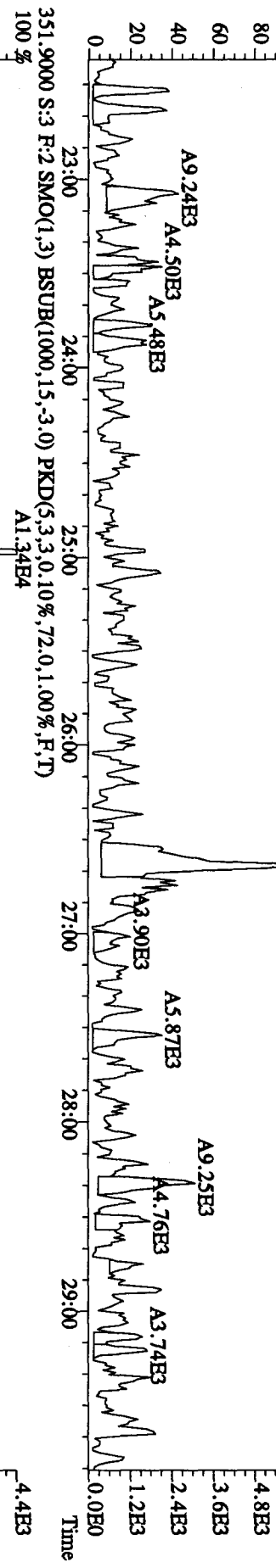
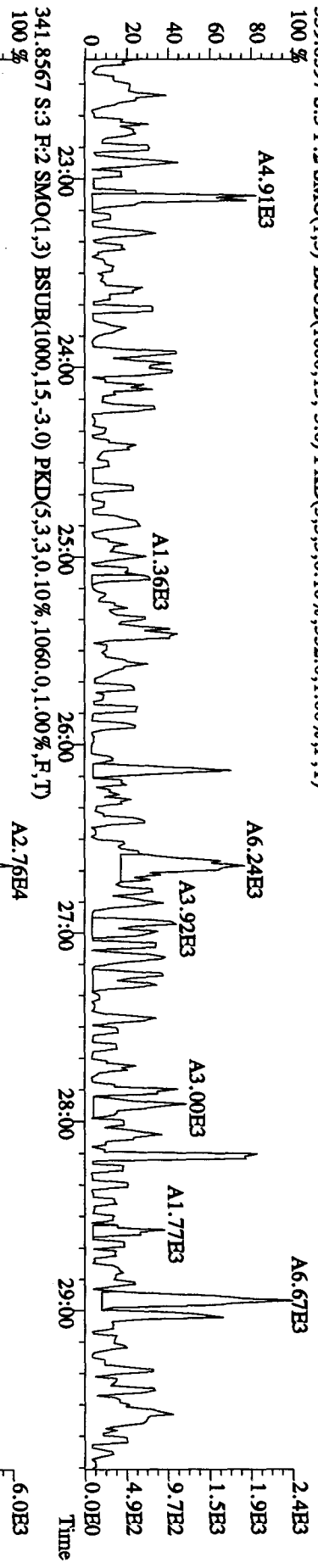
File: 22DE09A4D5 #1-578 Acq: 22-DEC-2009 22:54:12 GC BI + Voltage SIR Autospec-Ultimate
 Sample#3 Text: SB1222C :Solvent Blank C-14 Exp: DIOXIN
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)
 100 %A1.04E4



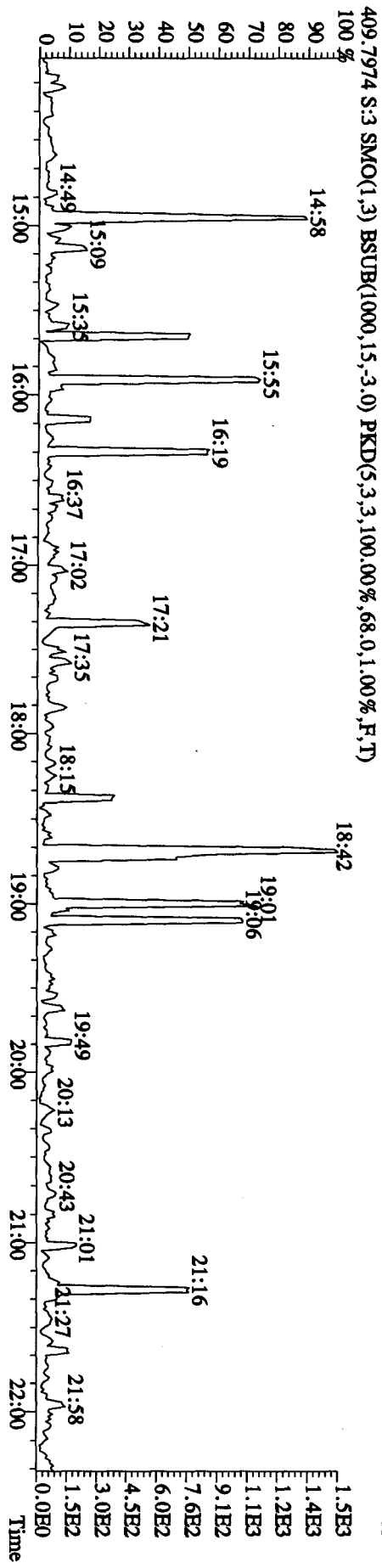
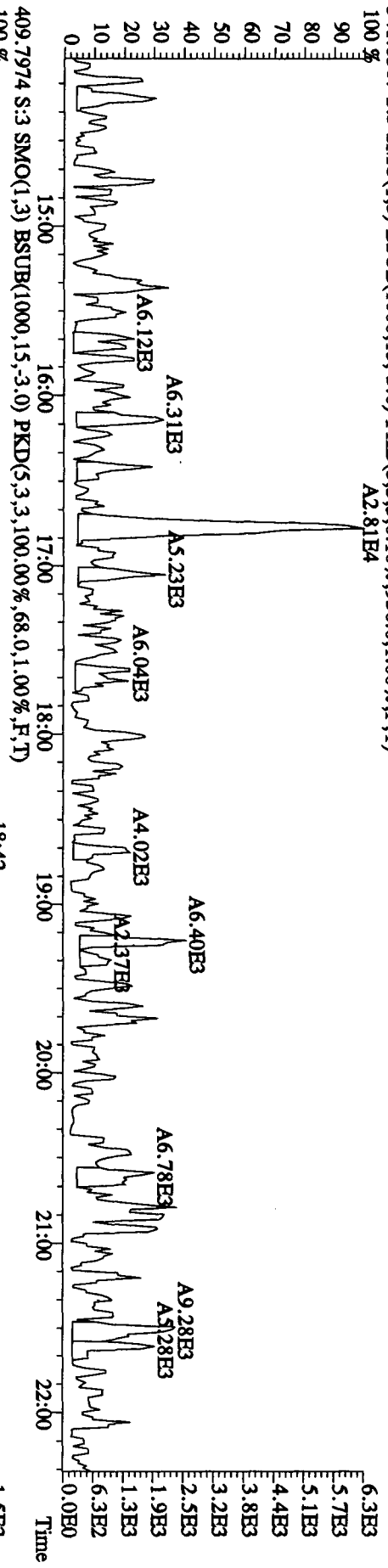
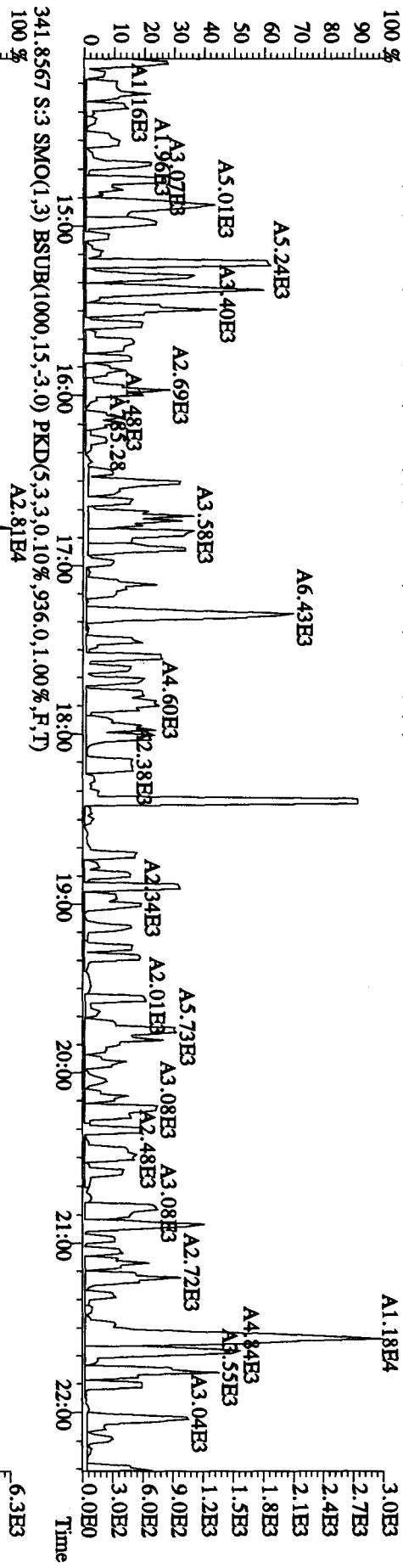
File:22DB09A4D5 #1-578 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:SB1222C :Solvent Blank C-14 Exp:DIOXIN
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76.0,1.00%,F,T)



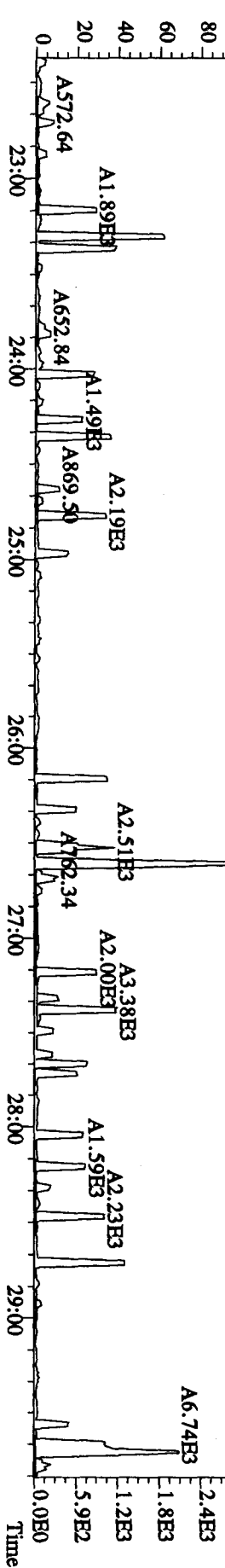
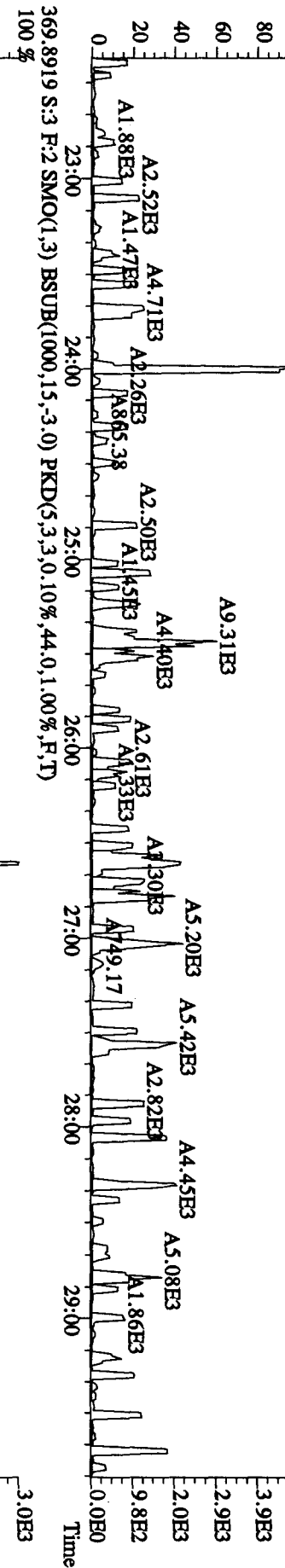
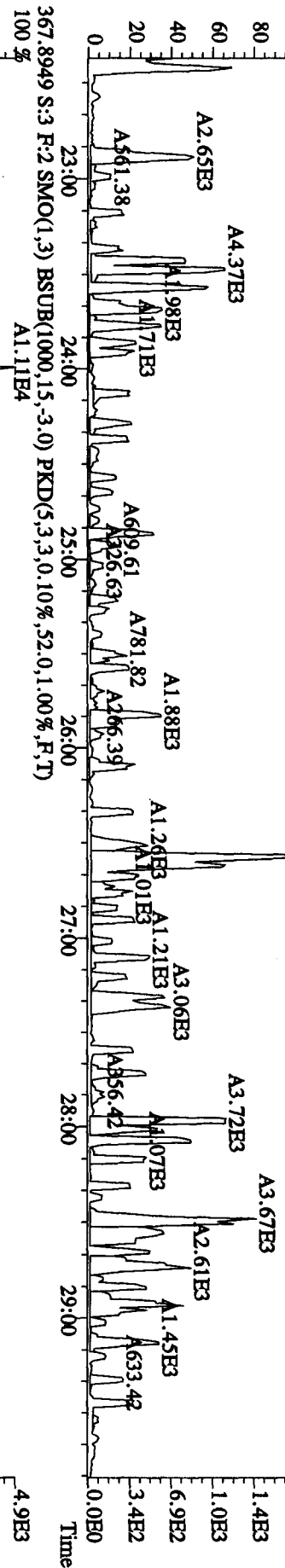
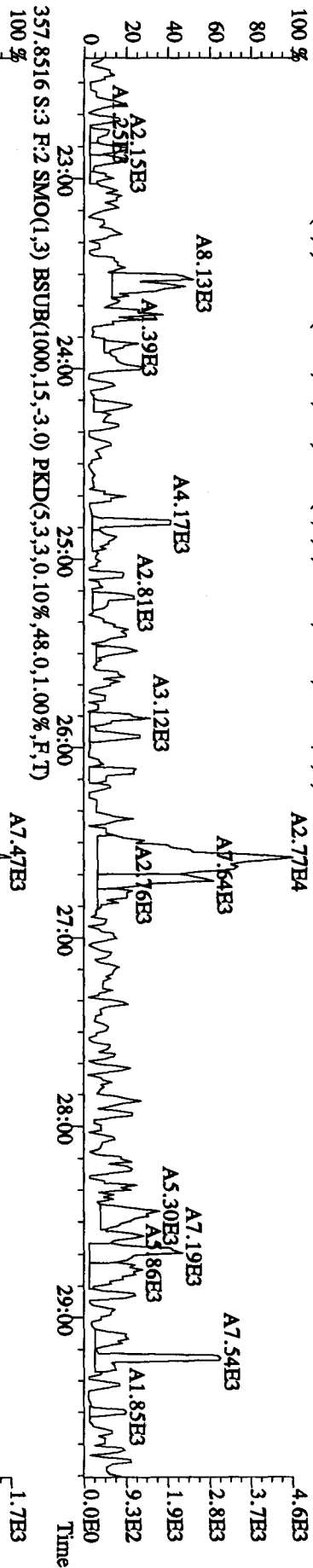
File:22DB09A4D5 #1-596 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UtimaB
 Sample#3 Text:SB1222C :Solvent Blank C-14 Exp:DIOXIN
 339.8597 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.552,0.1,0.0%,F,T)
 100 %



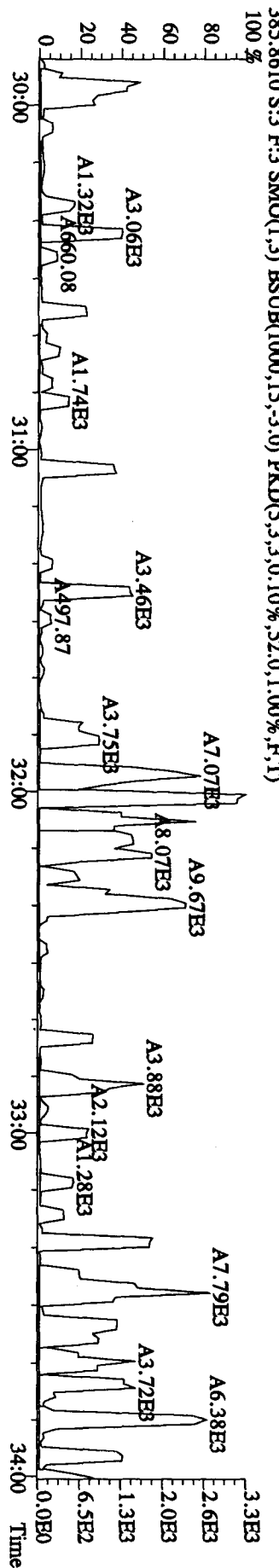
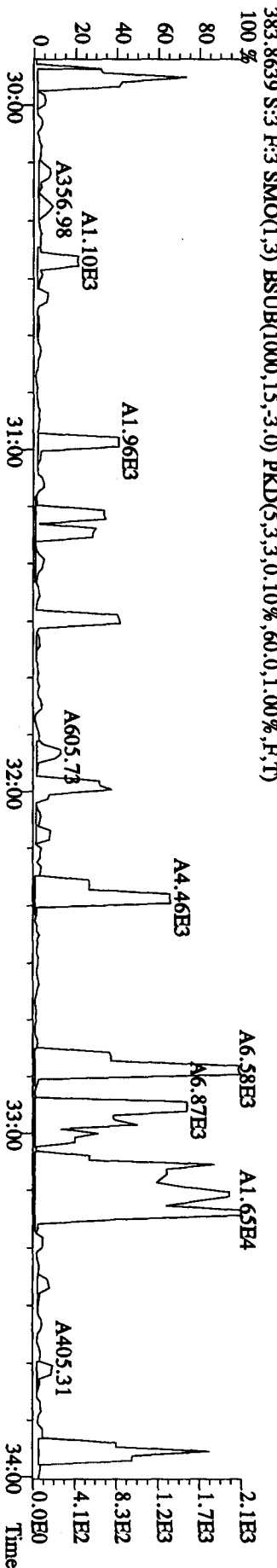
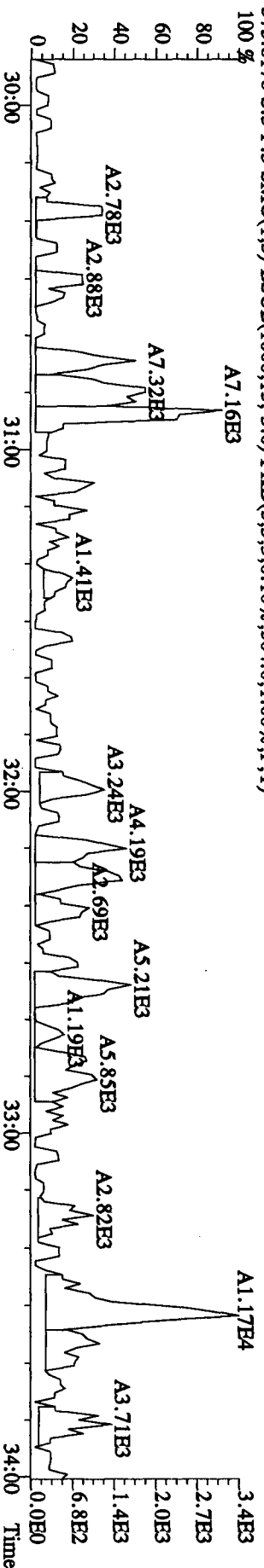
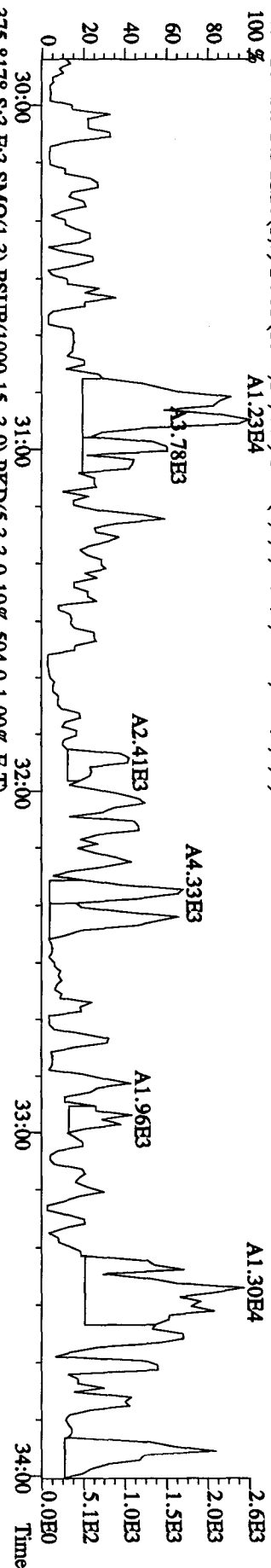
File:22DDE09A4D5 #1-578 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB1222C :Solvent Blank C-14 Exp:DIOXIN
 339.8597 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76.0,1.00%,F,T)



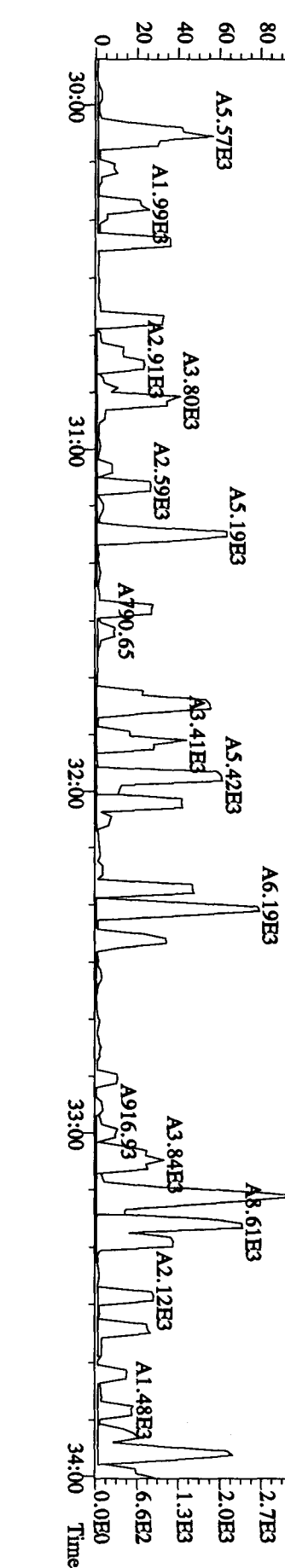
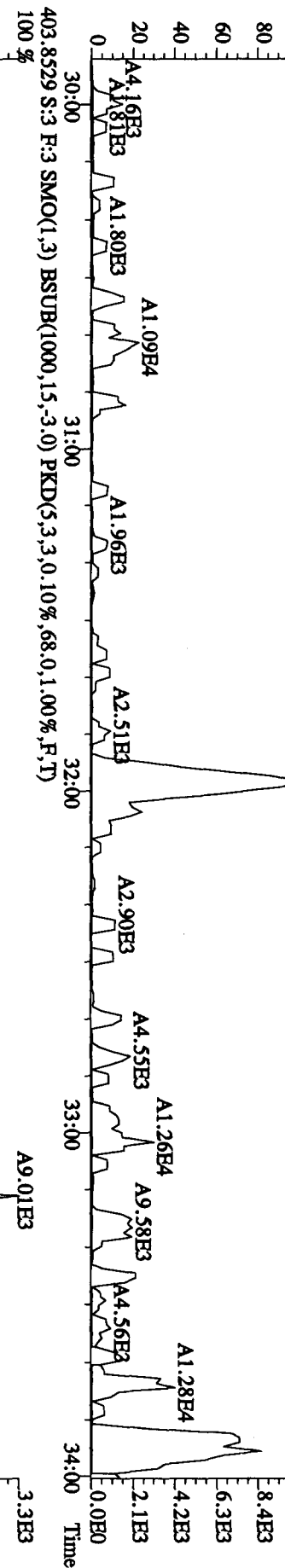
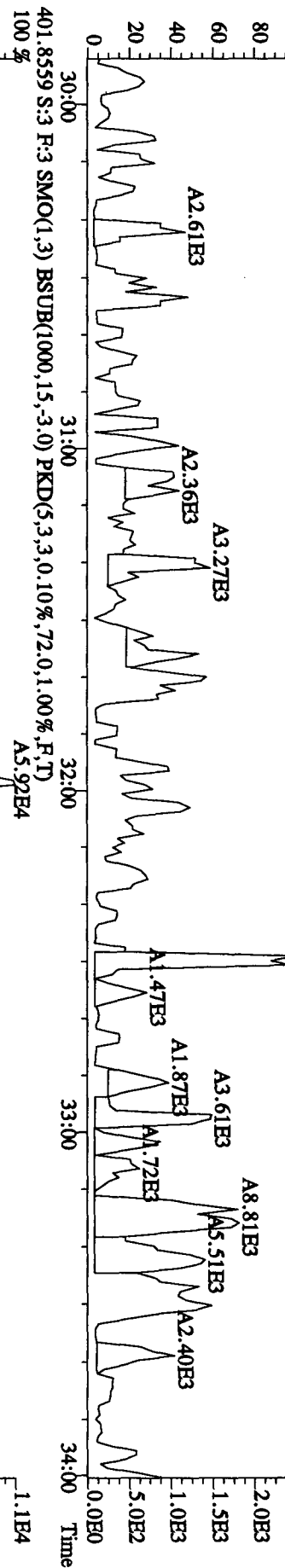
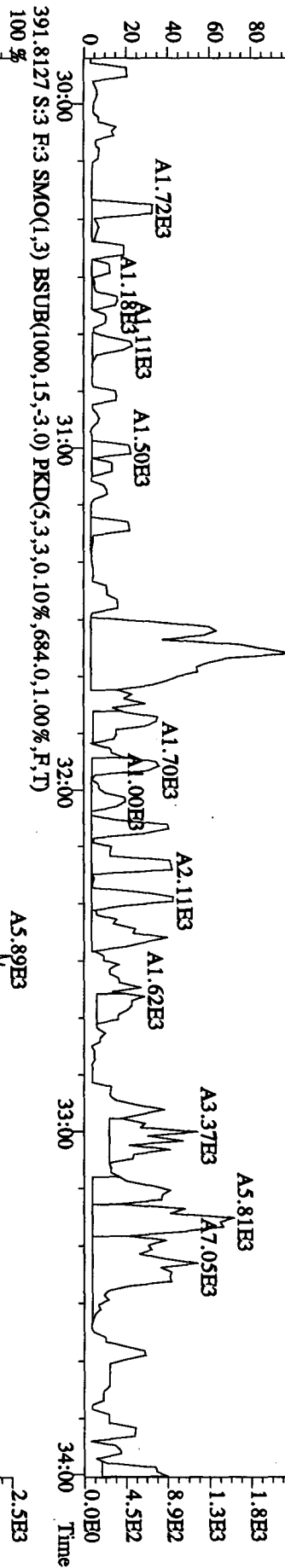
File: 22DE09A4D5 #1-596 Acq: 22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text: SB1222C :Solvent Blank C-14 Exp: DIOXIN
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,596.0,1.00%,F,T)



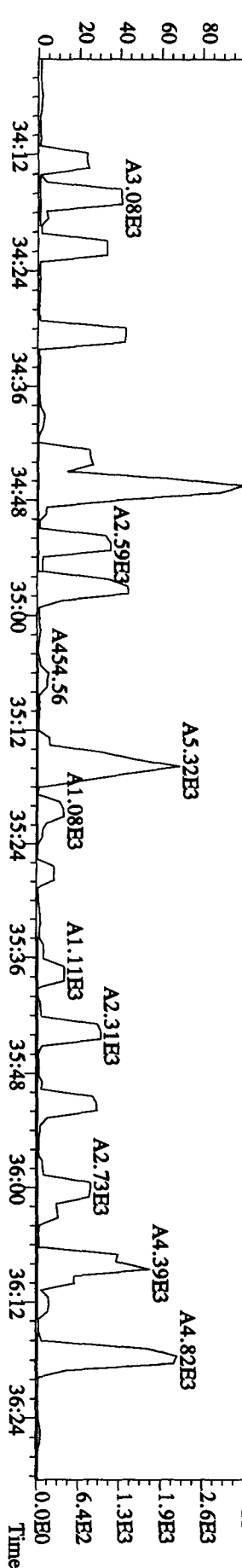
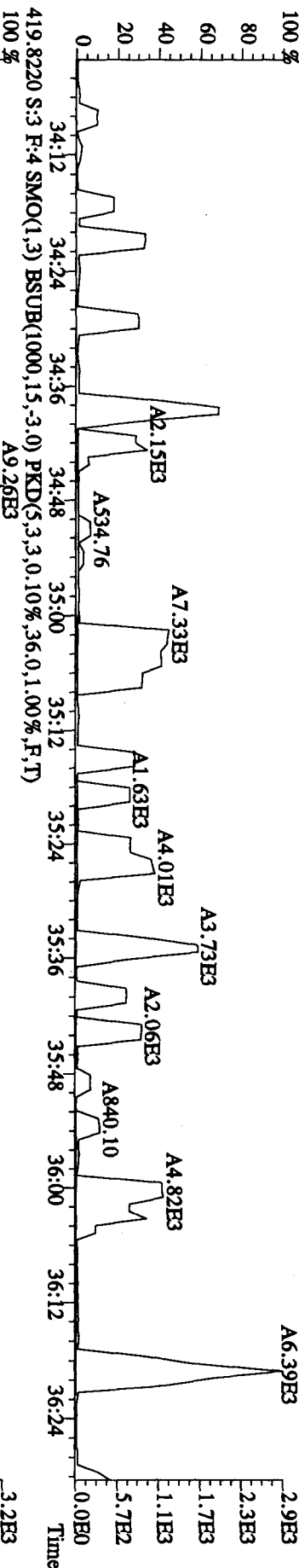
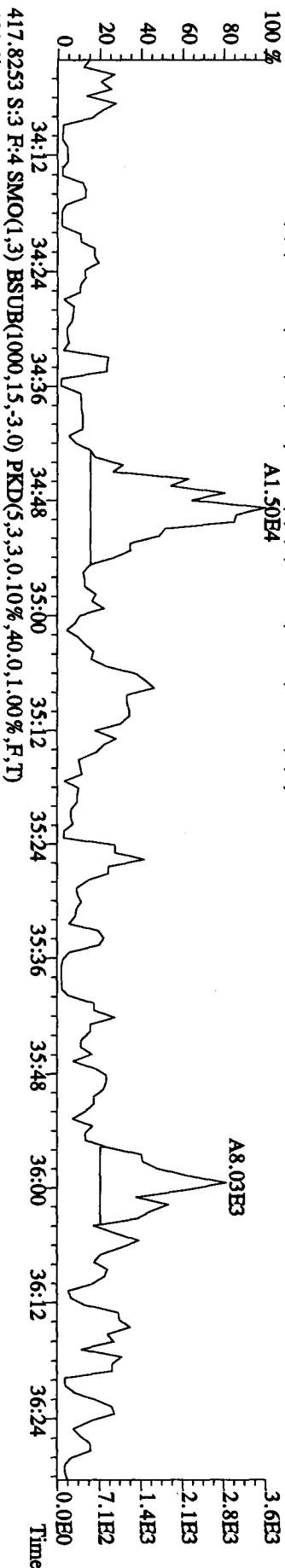
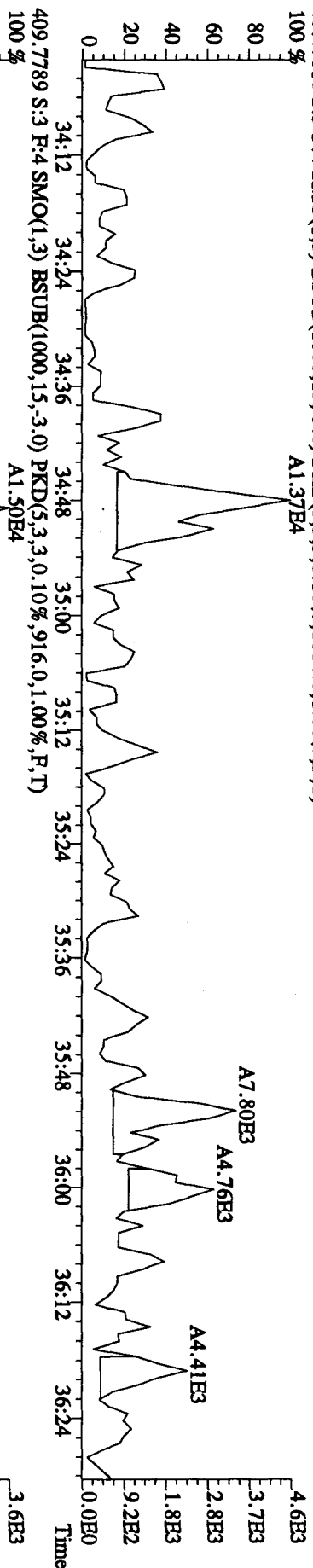
File:22DE09A4D5 #1-314 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:SBI222C :Solvent Blank C-14 Exp:DIOXIN
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,780,0.1,00%,F,T)
 100 % A1.23E4



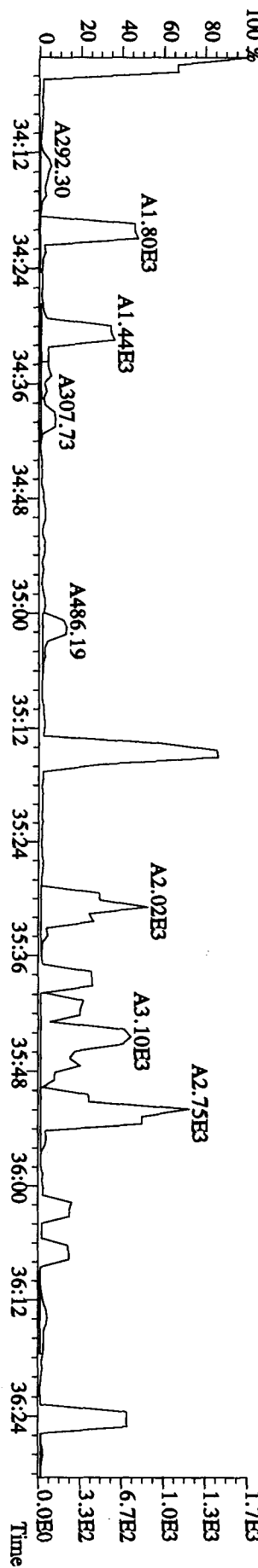
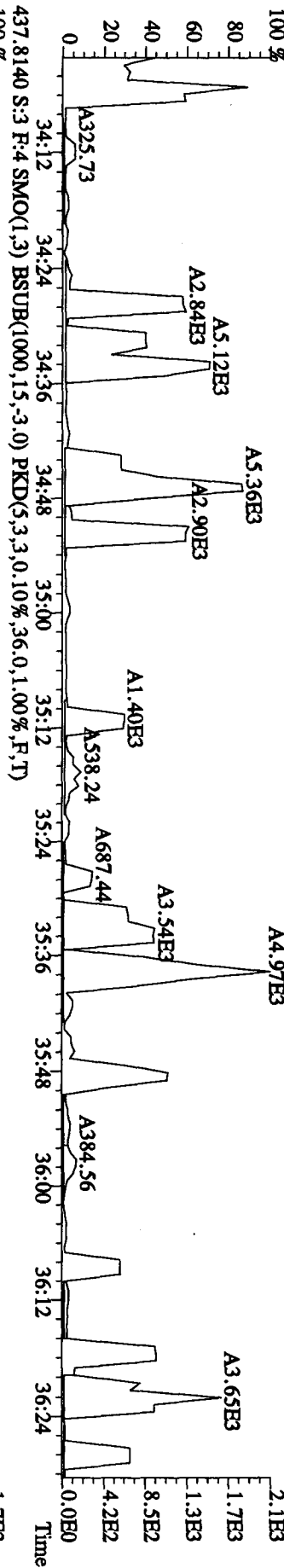
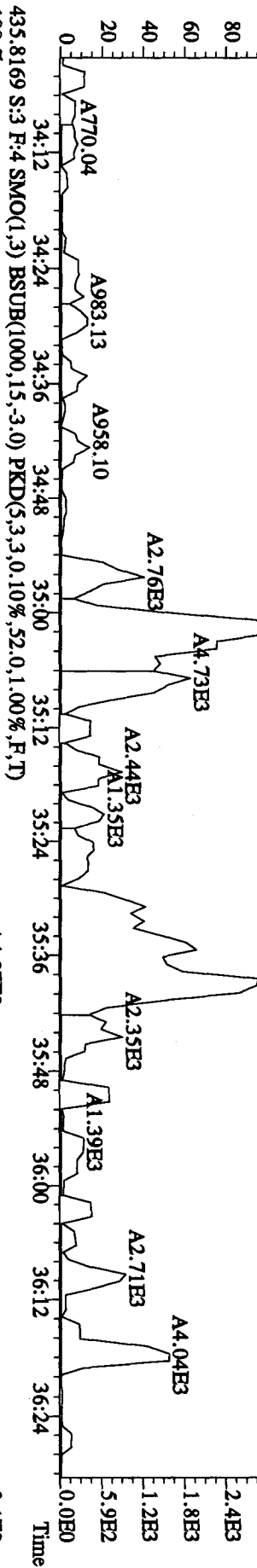
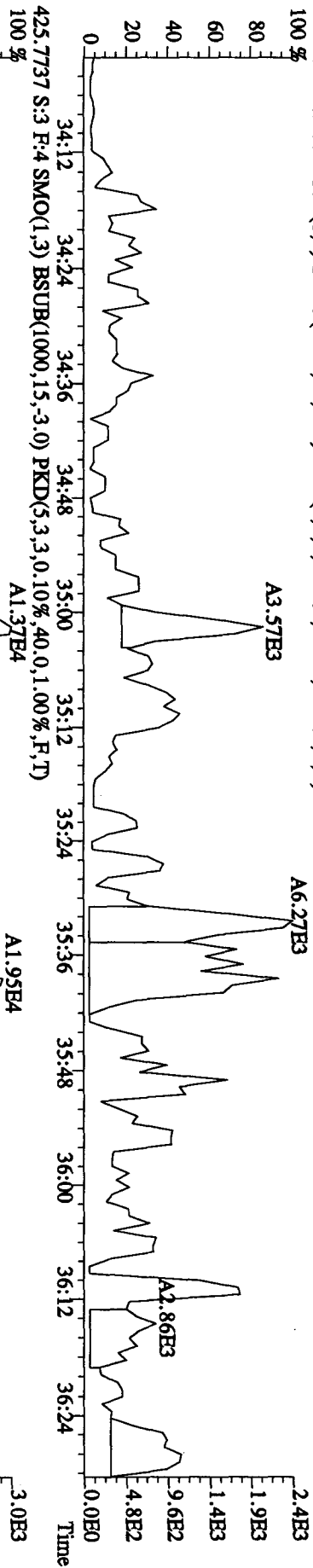
File: 22DE09A4D5 #1-314 Acq: 22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text: SB1222C :Solvent Blank C-14 Exp: DIOXIN
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,248.0,1.00%,F,T)
 A1.44E4



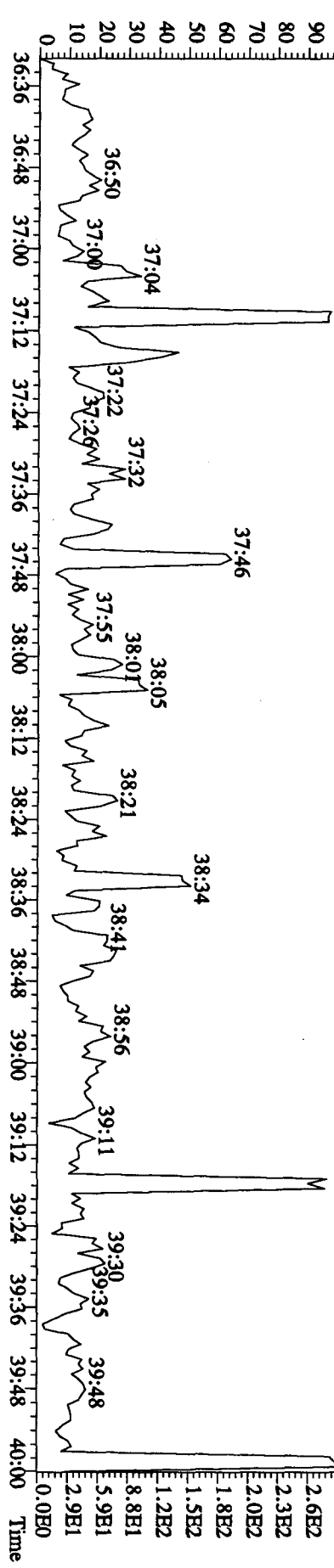
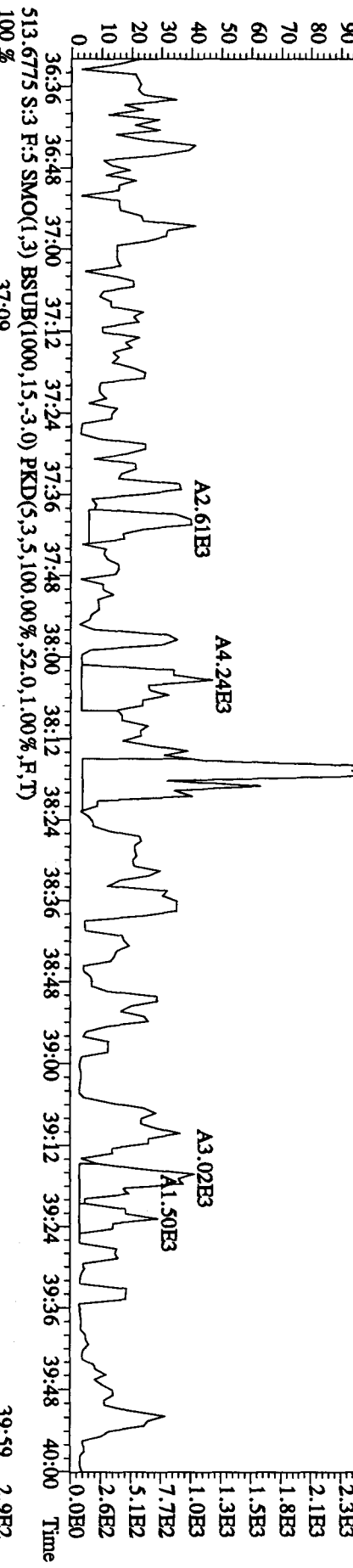
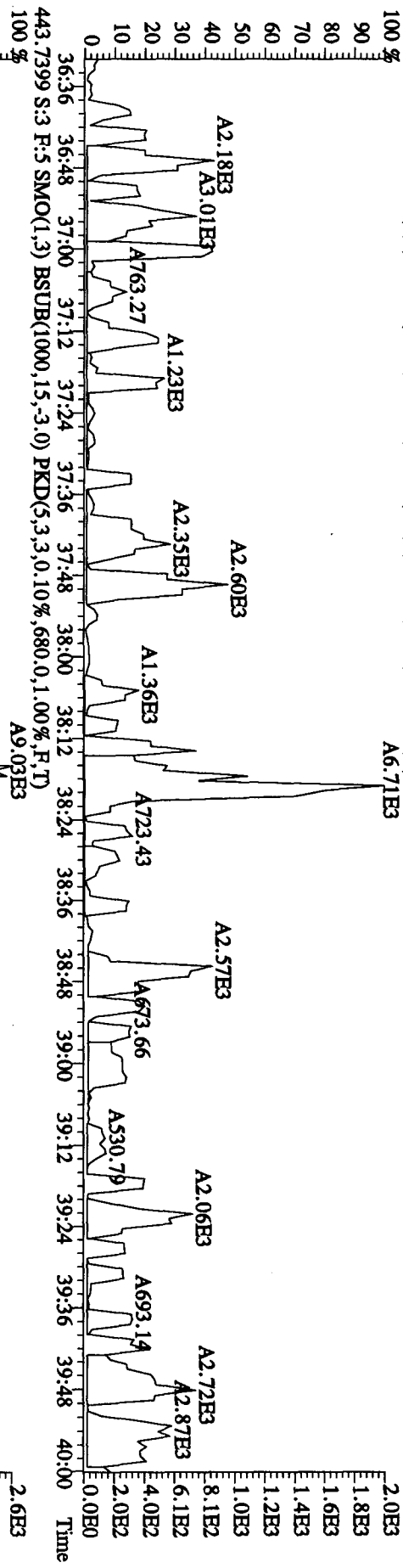
File:22DE09A4D5 #1-198 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:SBI222C :Solvent Blank C-14 Exp:DIOXIN
 407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T)
 A1.37E4



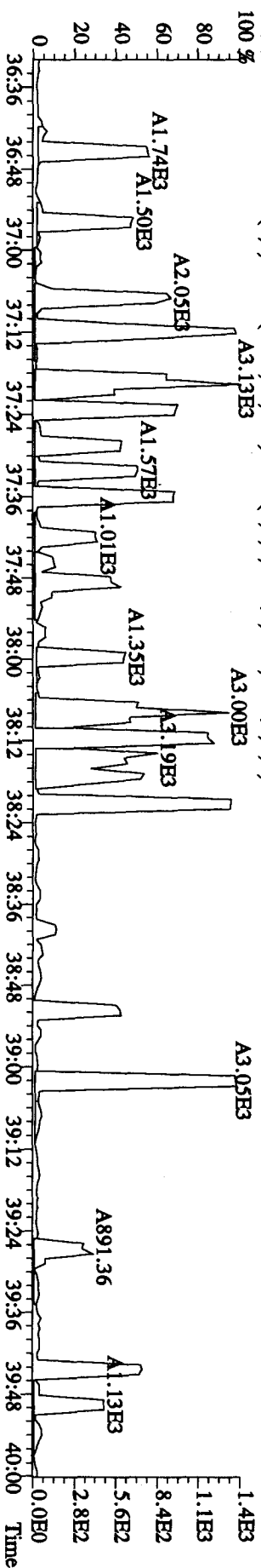
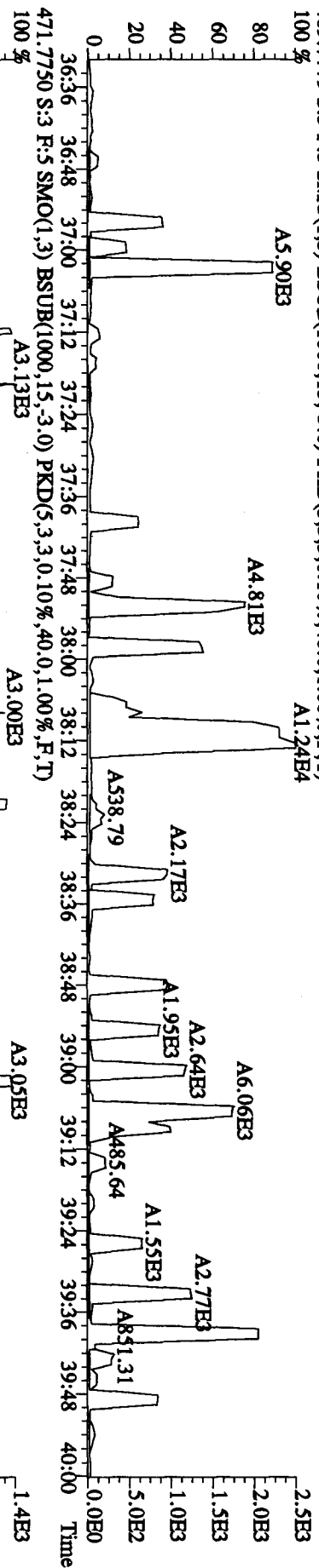
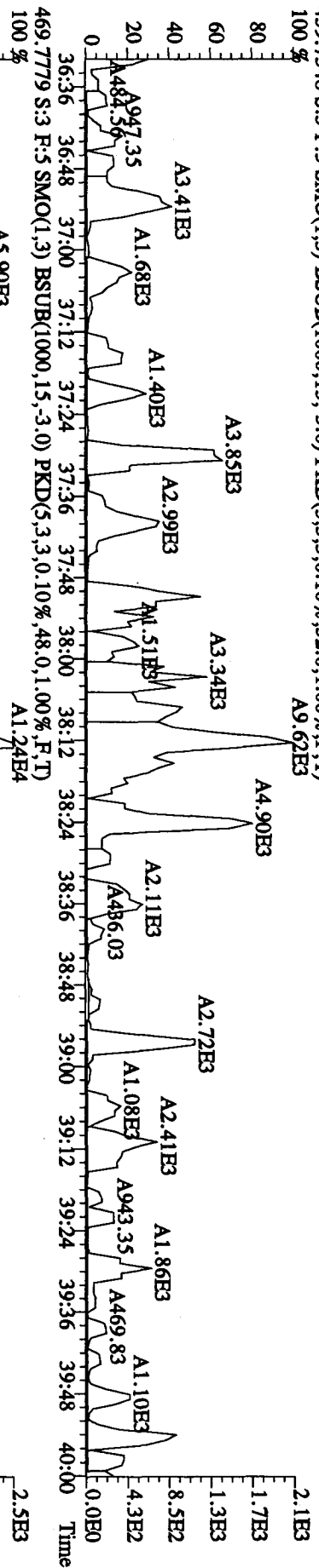
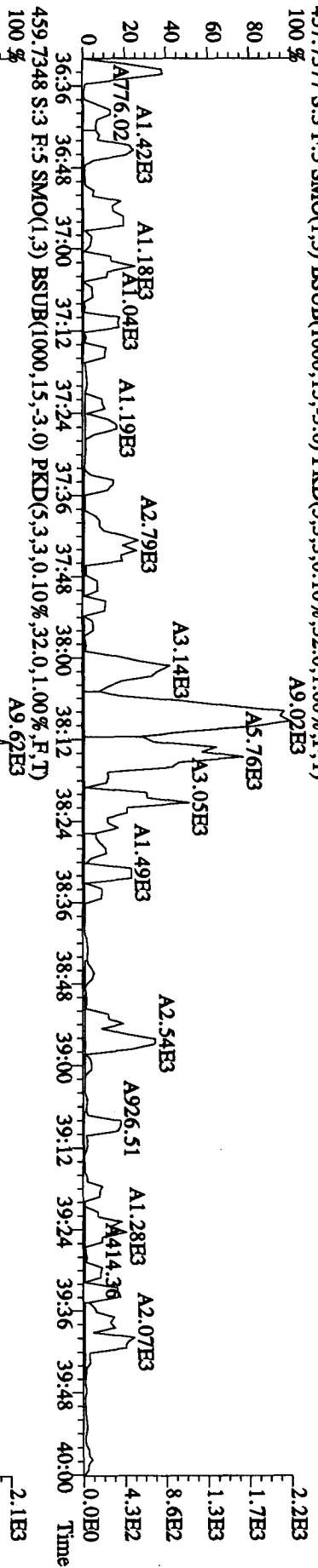
File:22DE09A4D5 #1-198 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB1222C :Solvent Blank C-14 Exp:DIOXIN
 423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,620,0.1,00%,F,T)



File:22DB09A4D5 #1-281 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB1222C :Solvent Blank C-14 Exp:DIOXIN
 441.7428 S:3 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40.0,1.00%,F,T) A6.71E3



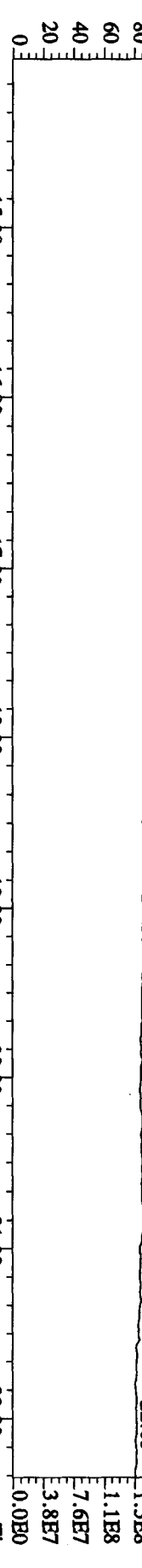
File:22DIB09A4D5 #1-281 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:SB1222C :Solvent Blank C-14 Exp:DIOXIN
 457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32.0,1.00%,F,T)
 100%



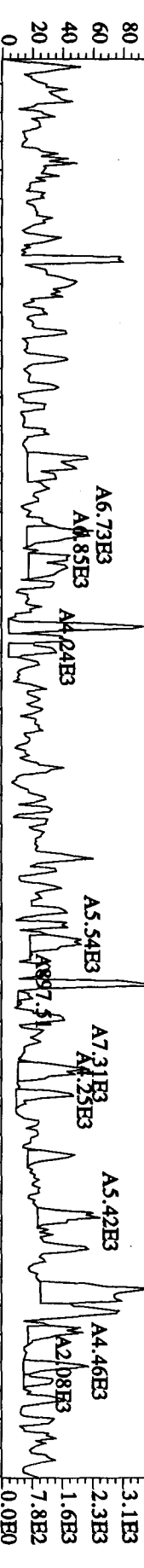
File: 22DE09A4D5 #1-578 Acq: 22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-Ultimate

Sample#3 Text: SB1222C :Solvent Blank C-14 Exp: DIOXIN

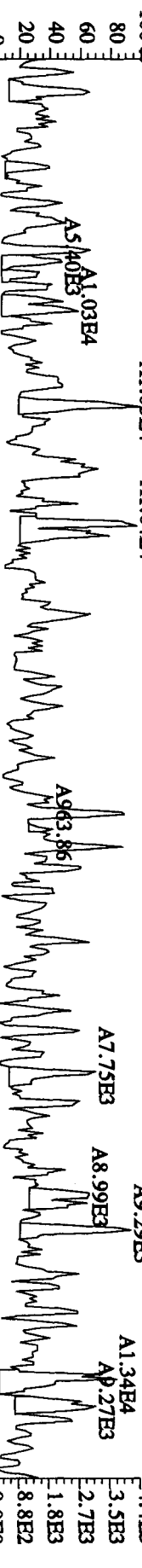
292.9825 S:3 SMO(1.3) PKD(5.3,5,100.00%,0.0,1.00%,F,T)



303.9016 S:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1076.0,1.00%,F,T)



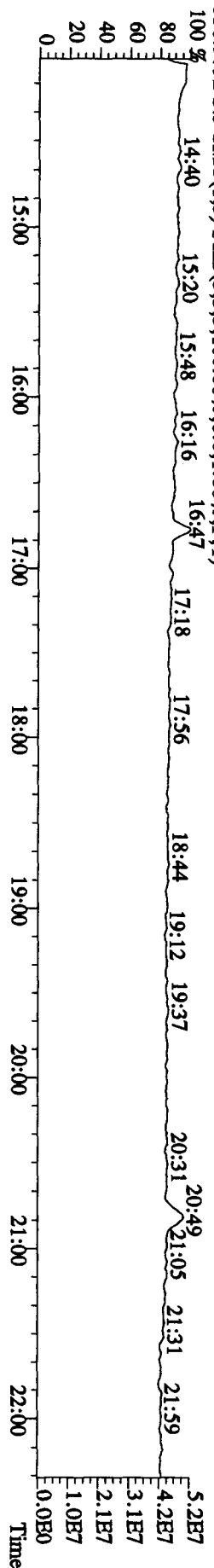
305.8987 S:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1376.0,1.00%,F,T)



375.8364 S:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,68.0,1.00%,F,T)



330.9792 S:3 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

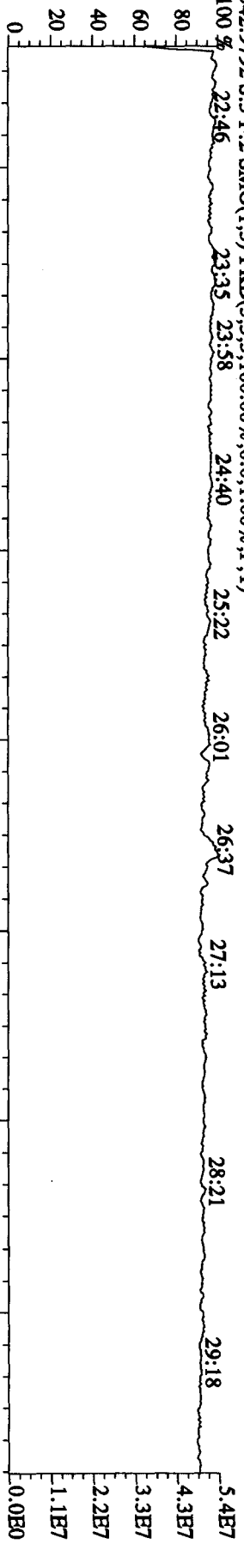


File:22DB09A4D5 #1-596 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UltimaB

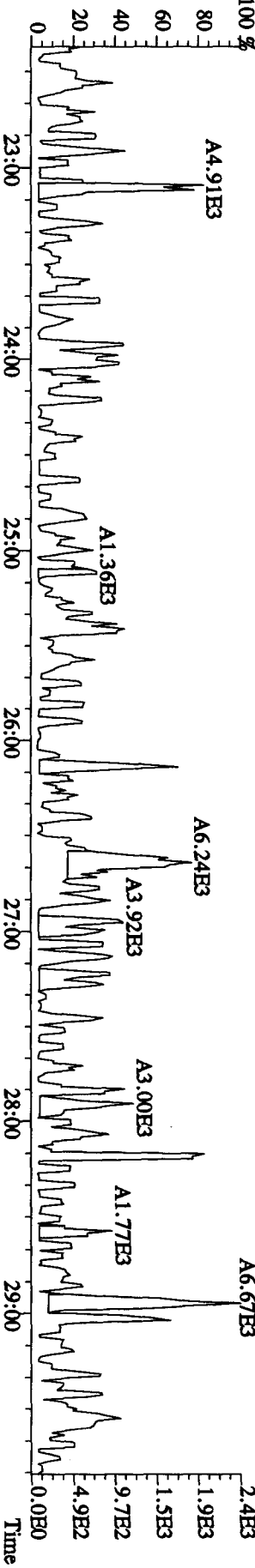
Sample#3 Text:SB1222C :Solvent Blank C-14 Exp:DIOXIN

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

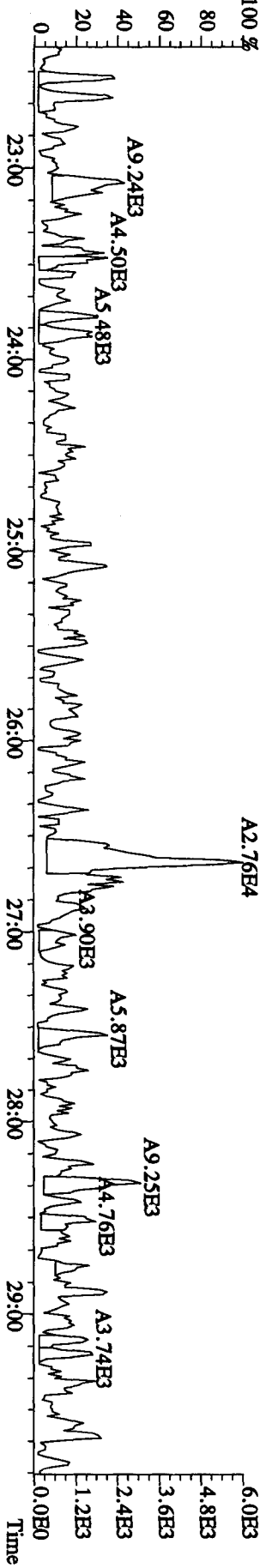
100 % 22:46 23:35 23:58 24:40 25:22 26:01 26:37 27:13 28:21 29:18



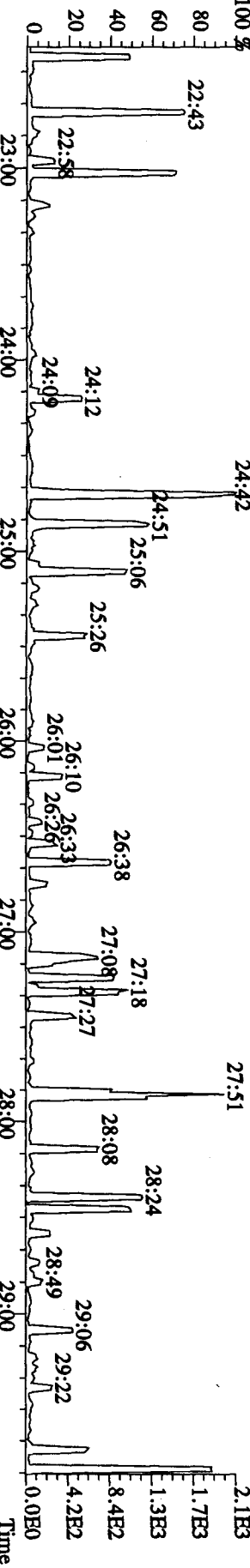
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,552.0,1.00%,F,T)

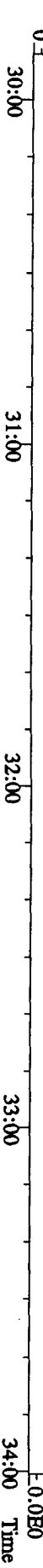
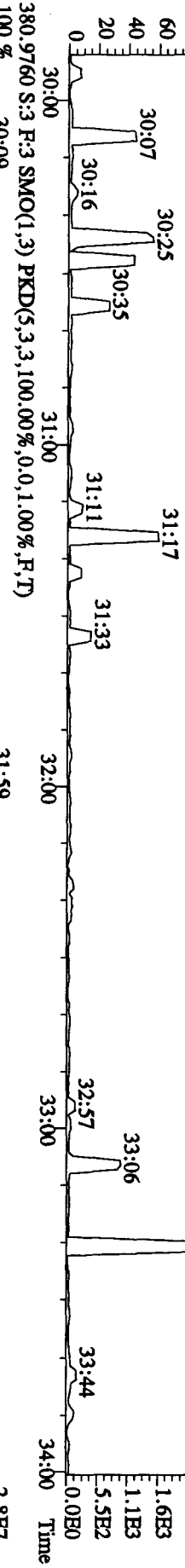
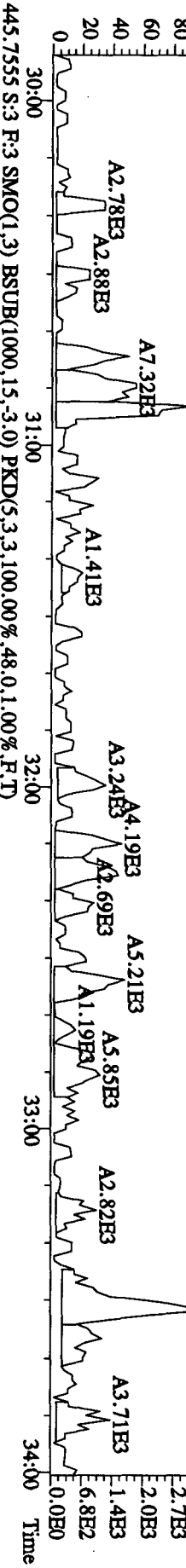
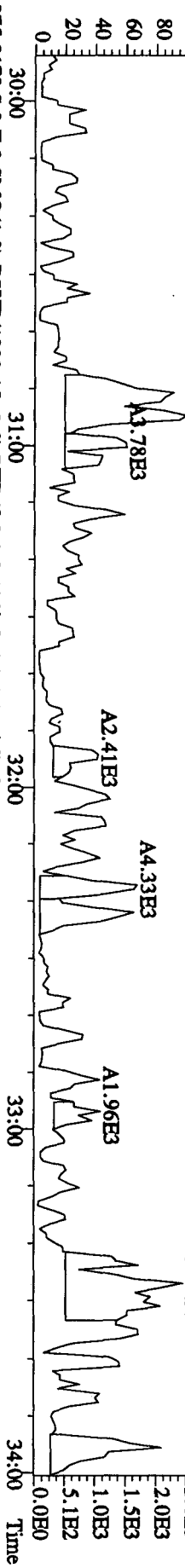
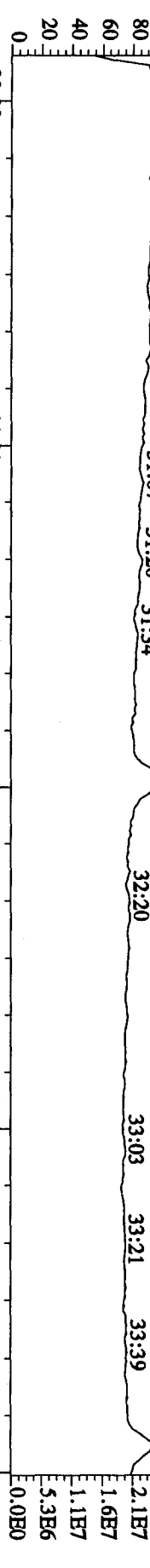


341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1060.0,1.00%,F,T)

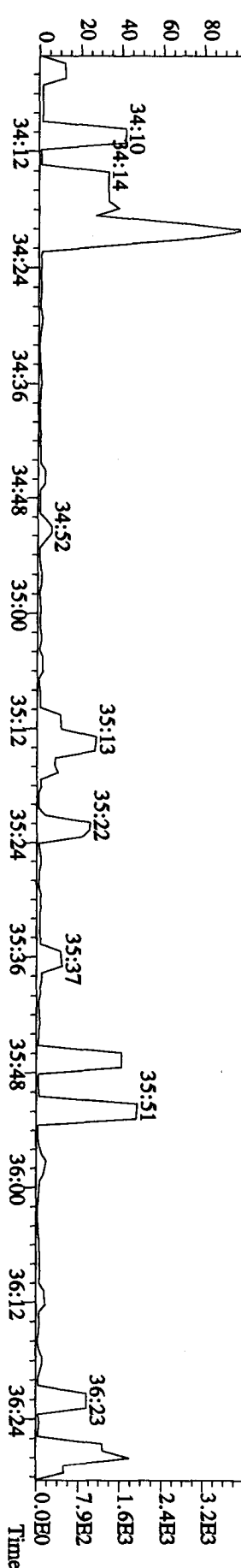
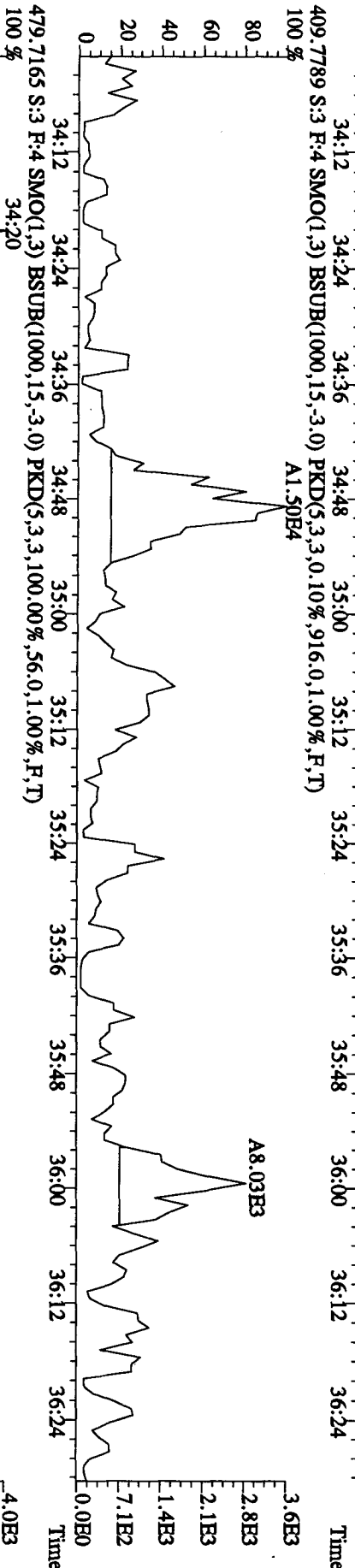
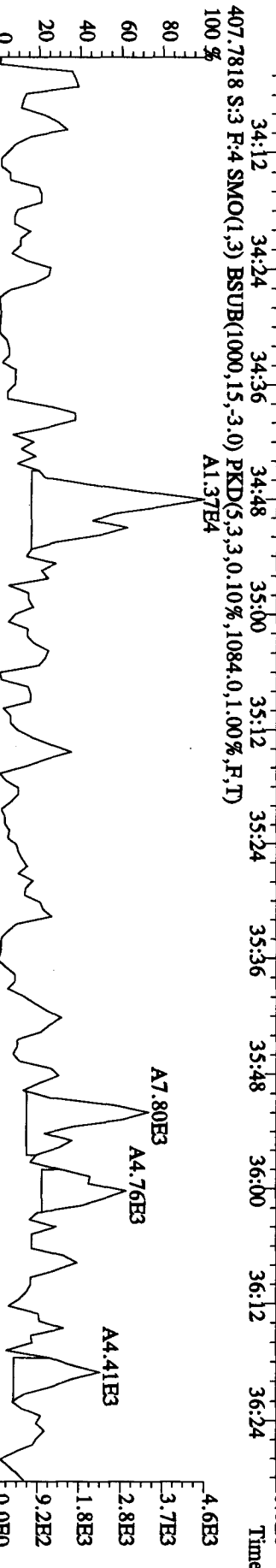
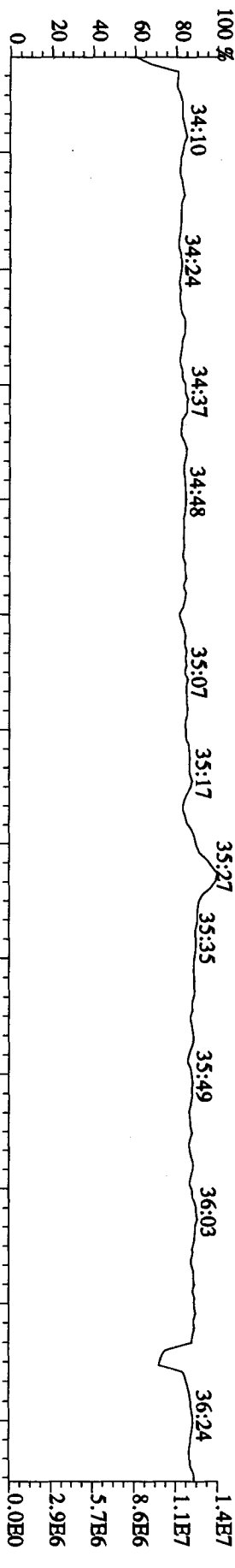


409.7974 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,48.0,1.00%,F,T)

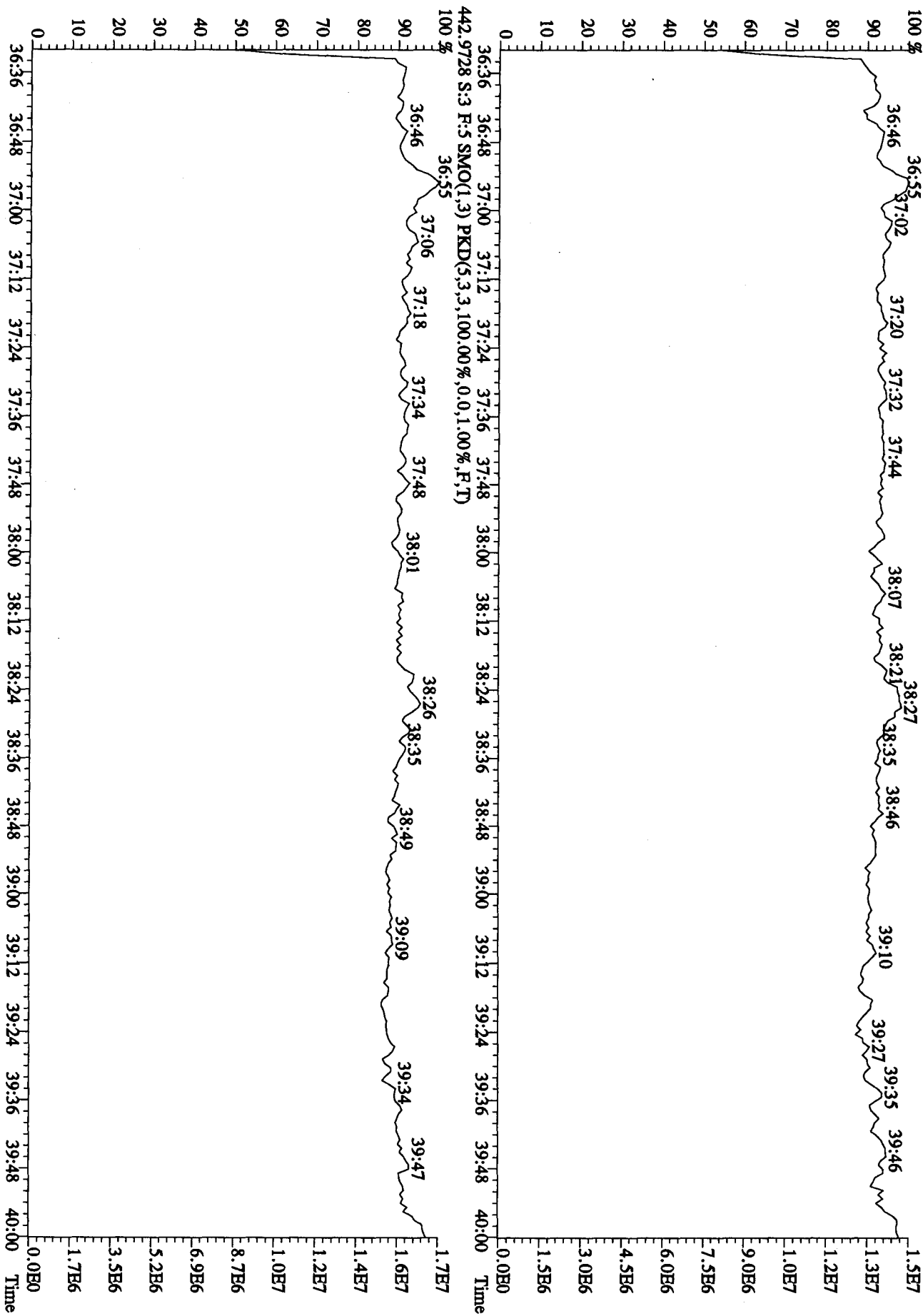




File:22DB09A4D5 #1-198 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB1222C :Solvent Blank C-14 Exp:DIOXIN
 430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



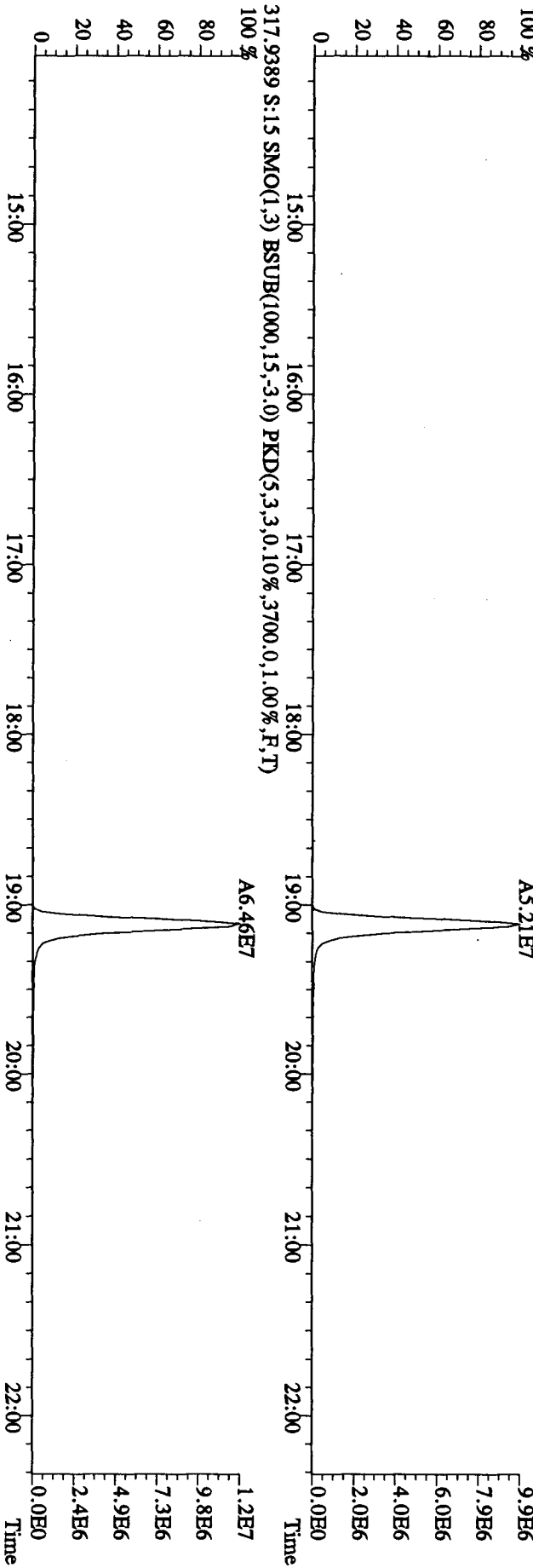
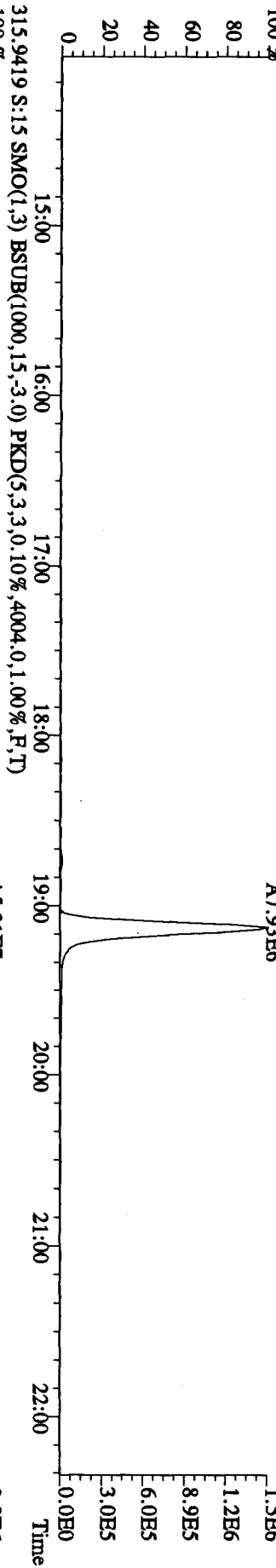
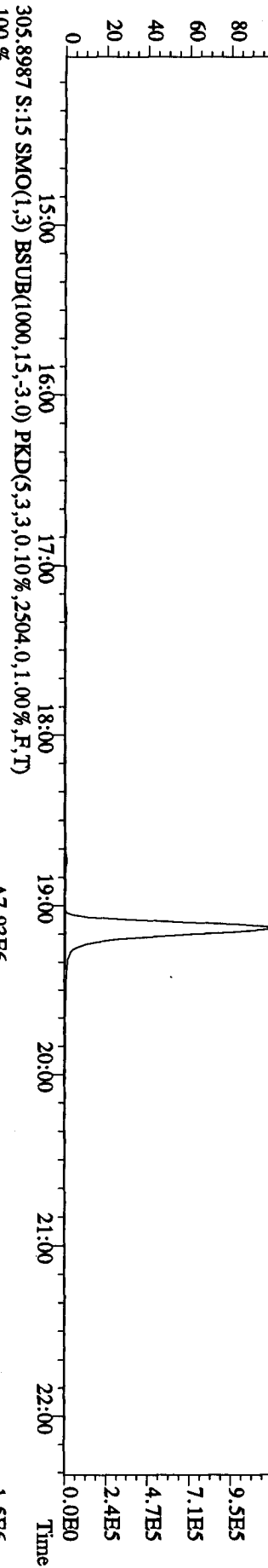
File:22DE09A4D5 #1-281 Acq:22-DEC-2009 22:54:12 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB1222C :Solvent Blank C-14 Exp:DIOXIN
 454.9728 S:3 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



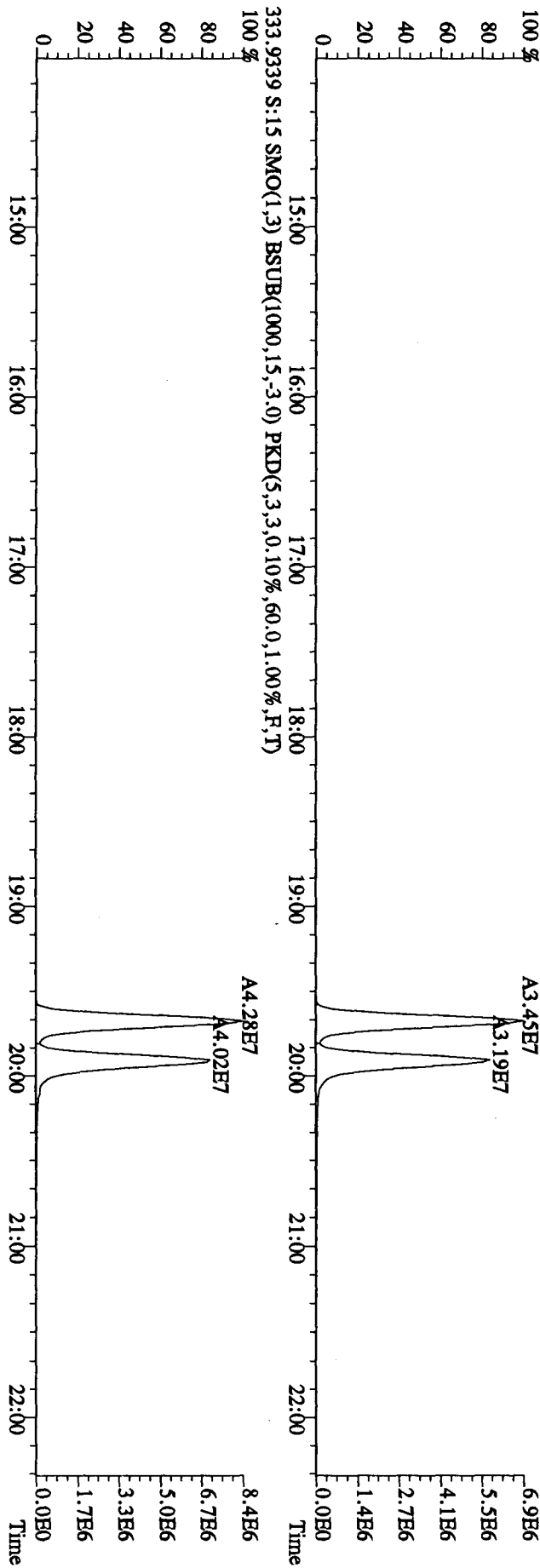
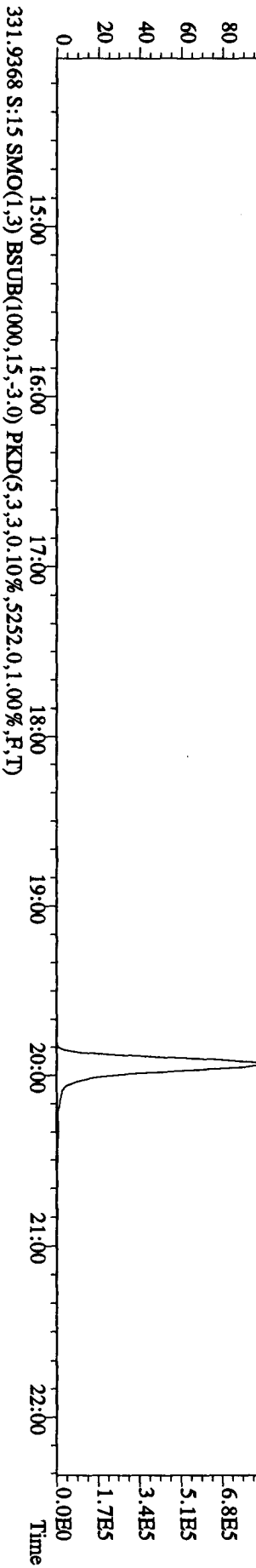
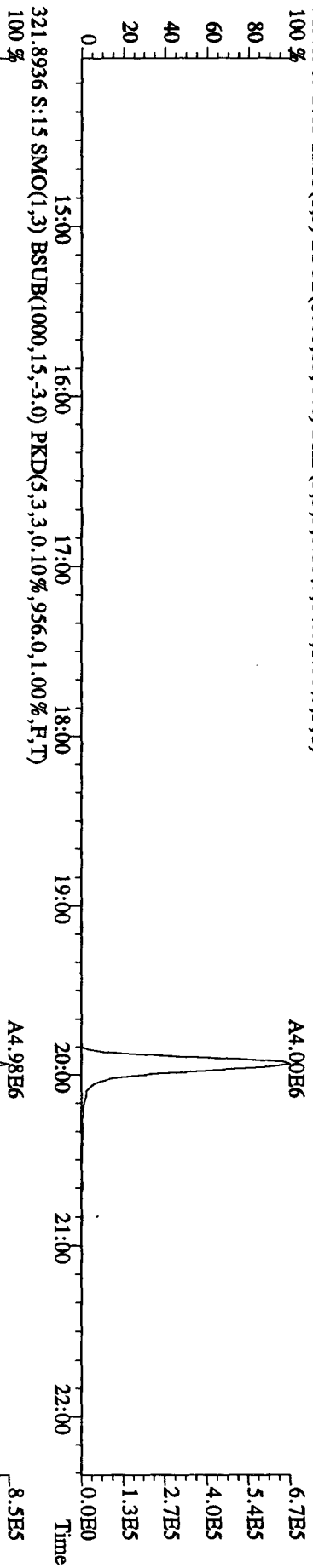
File:22DBE09A4D5 #1-578 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-Ultimate

Sample#15 Text:ST1222C :CS3 09DXN384 Exp:DIOXIN

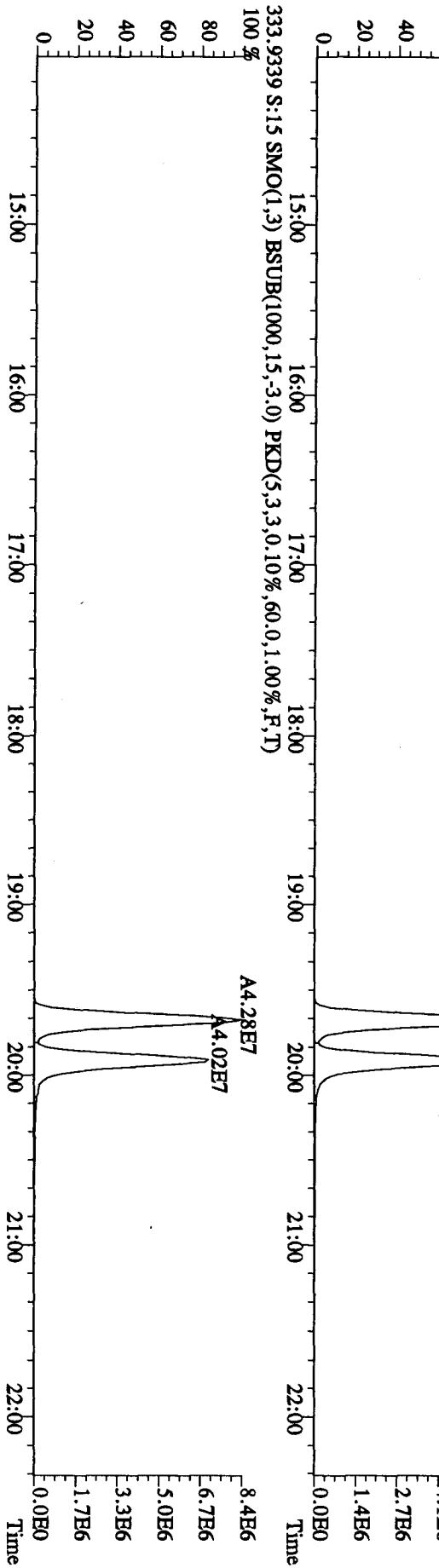
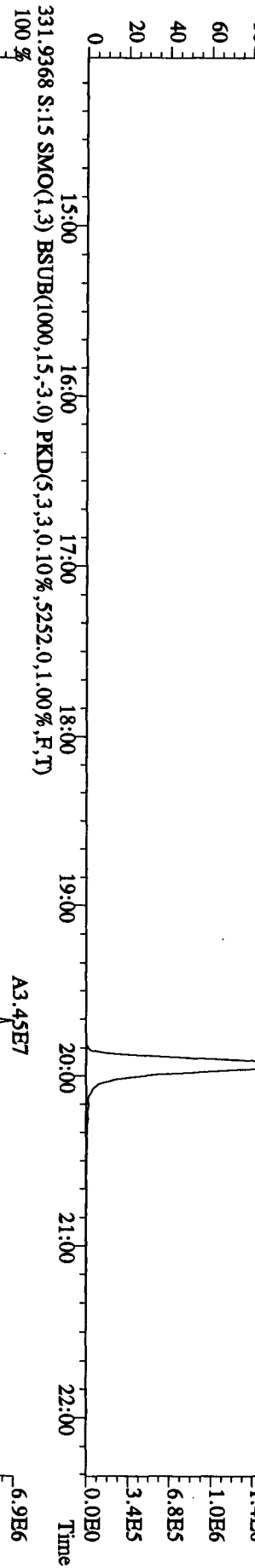
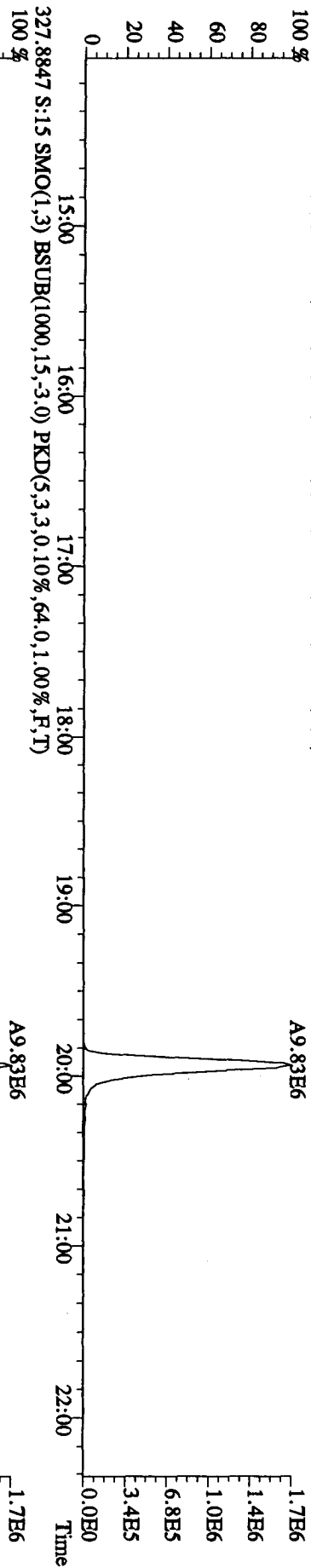
303.9016 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1924.0,1.00%,F,T)



File:22DE09A4D5 #1-578 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-UltimaE
Sample#15 Text:ST1222C :CS3 09DXN384 Exp:DIOXIN
319.8965 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,64,0,1,00%,F,T)
100%



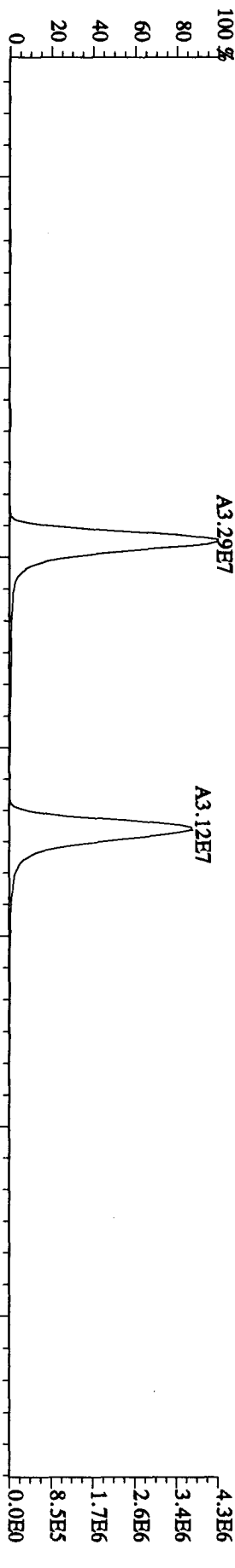
File:22DE09A4D5 #1-578 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#15 Text:ST1222C :CS3 09DXN384 Exp:DIOXIN
 327.8847 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,64.0,1.00%,F,T)
 100 %



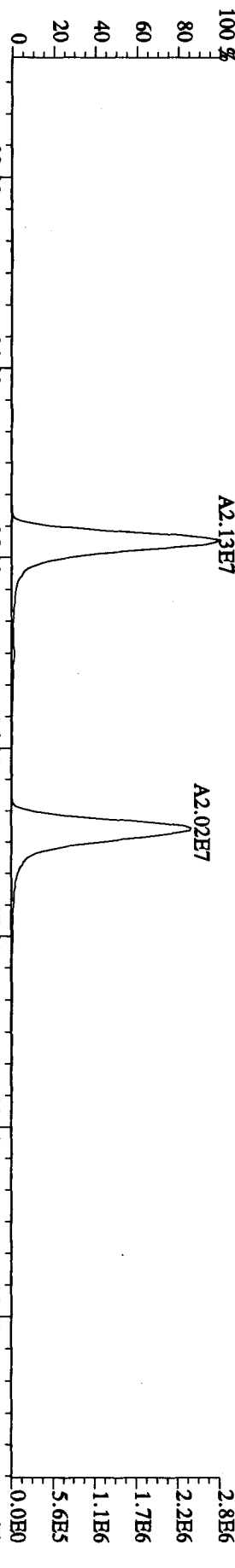
File:22DE09A4D5 #1-596 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-UltimaB

Sample#15 Text:ST1222C :CS3 09DXN384 Exp:DIOXIN

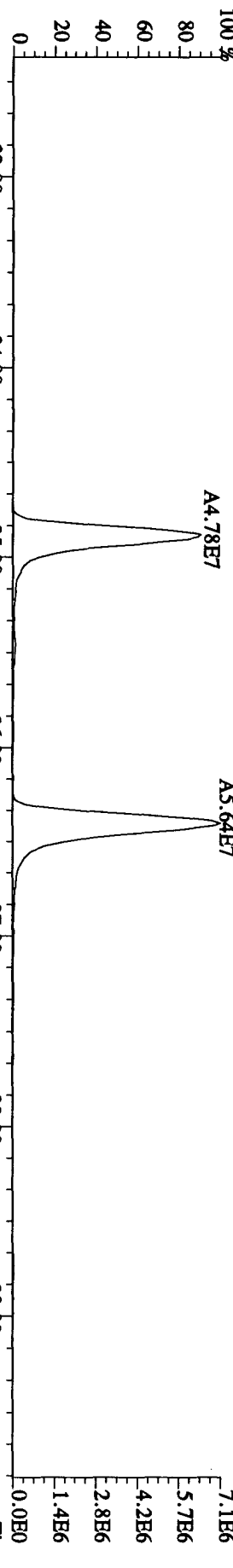
339.8597 S:15 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3980,0,1,00%,F,T)



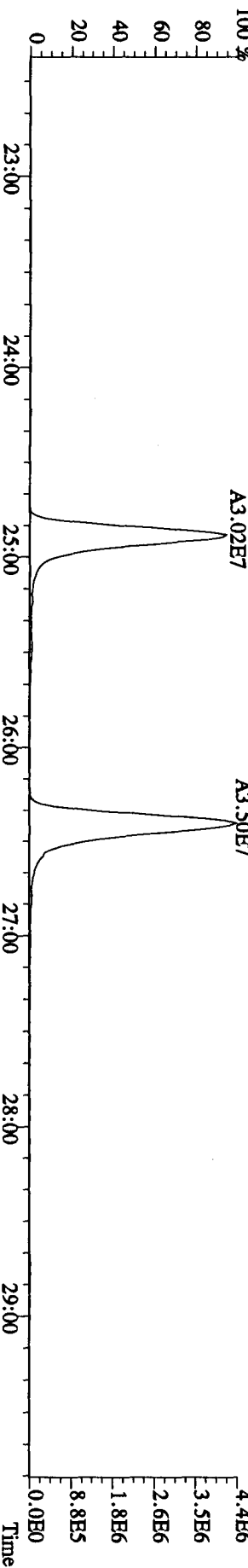
341.8567 S:15 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3760,0,1,00%,F,T)



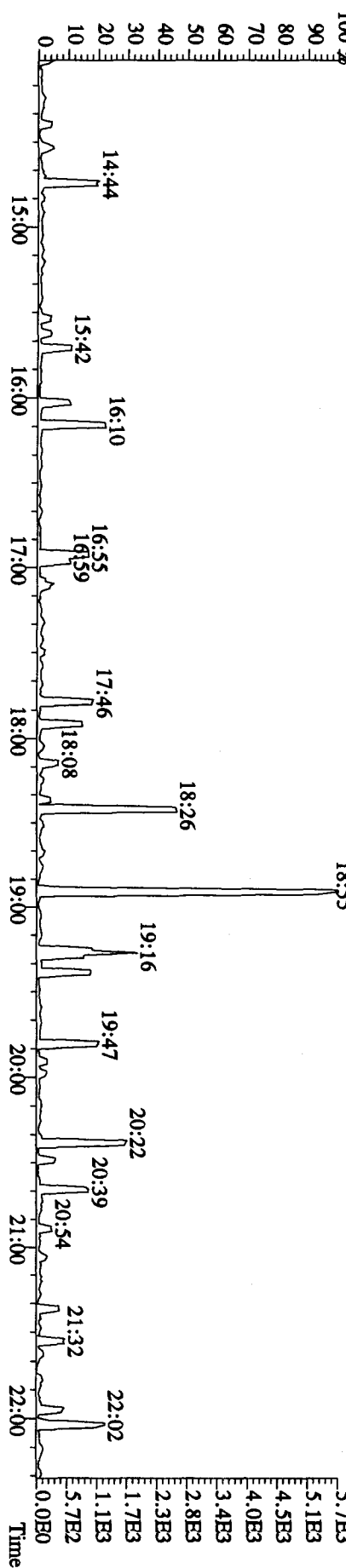
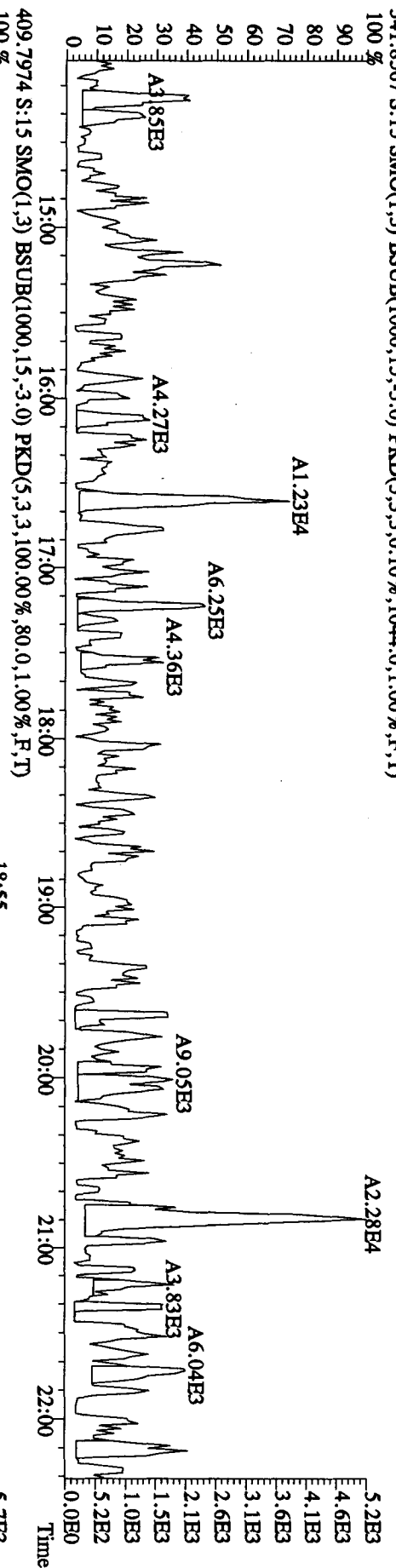
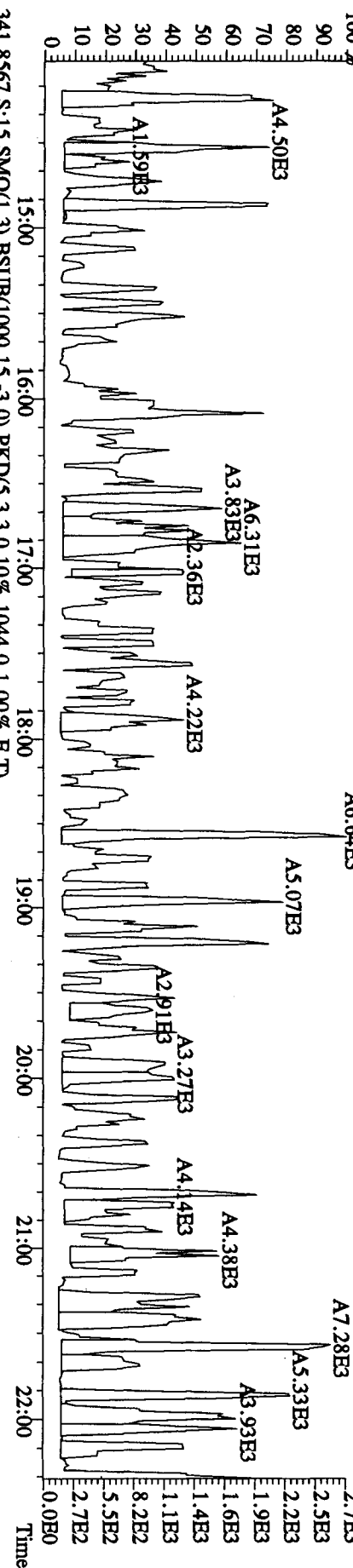
351.9000 S:15 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7488,0,1,00%,F,T)



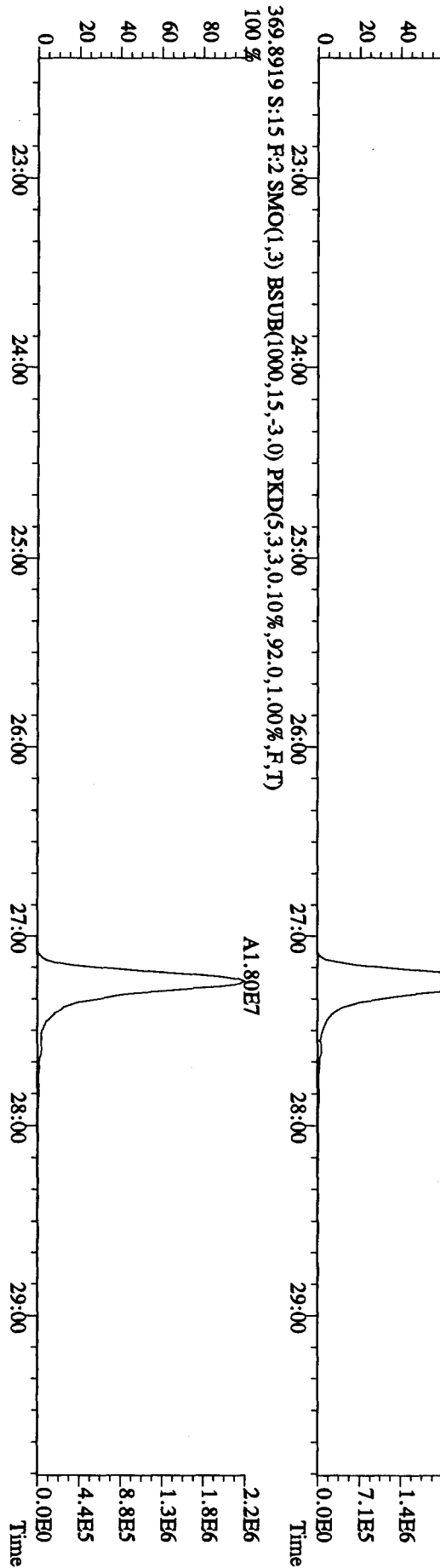
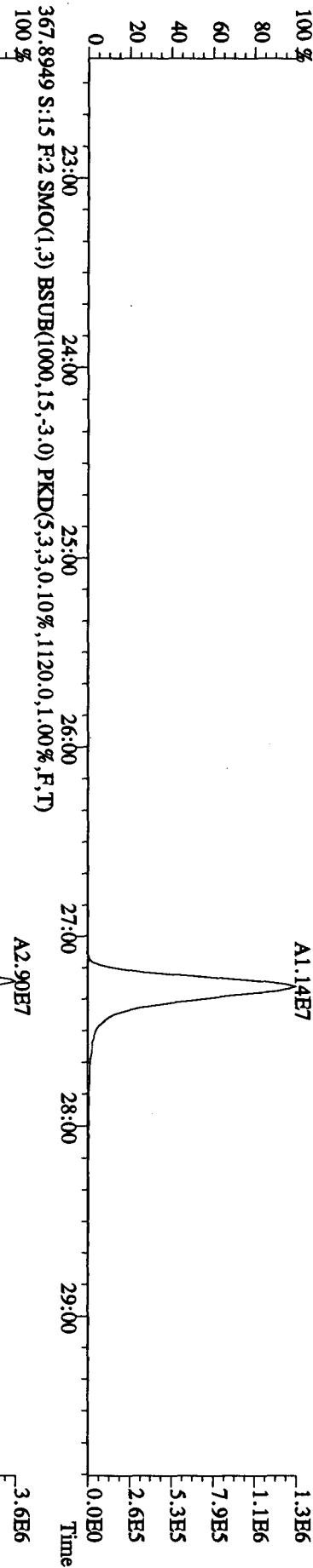
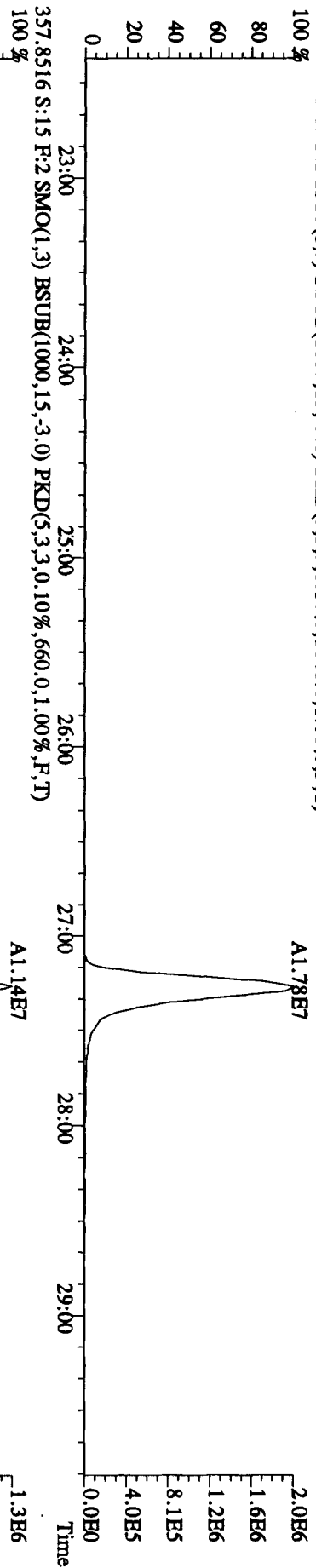
353.8970 S:15 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3188,0,1,00%,F,T)



File: 22DE09A4D5 #1-578 Acq: 23-DEC-2009 07:42:38 GC HI + Voltage SIR Autospec-Ultimate
 Sample#15 Text: ST1222C :CS3 09DXN384 Exp: DIOXIN
 339.8597 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,848.0,1.00%,F,T)



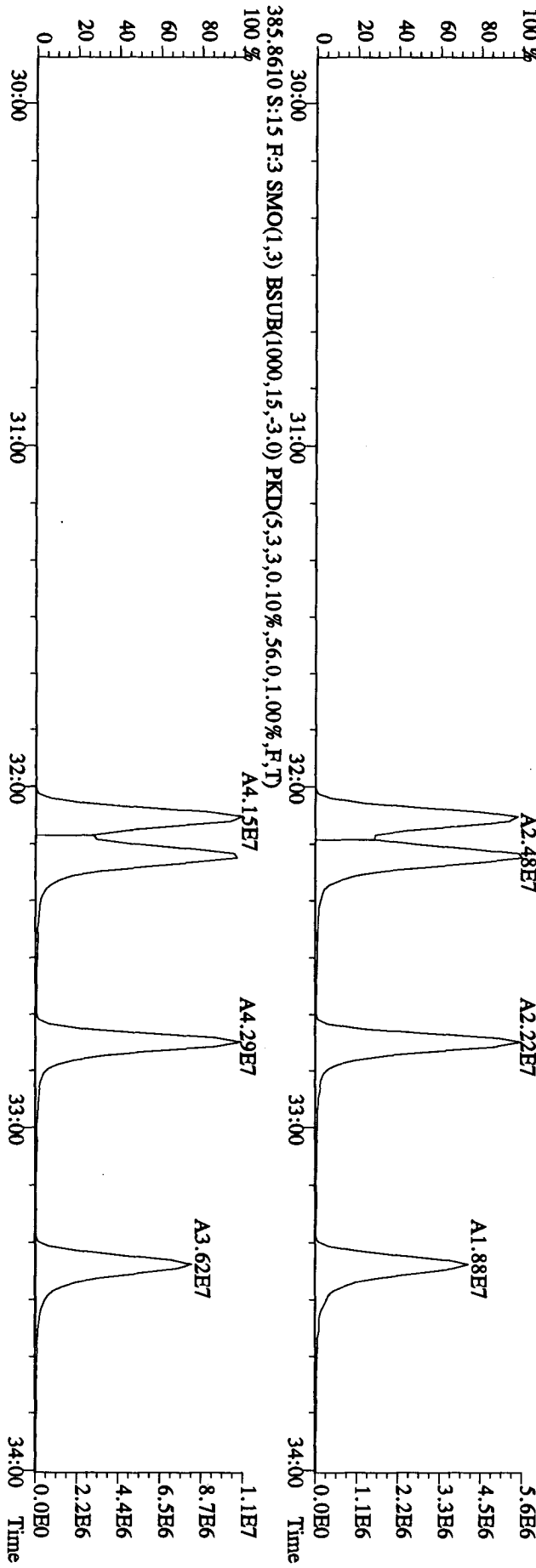
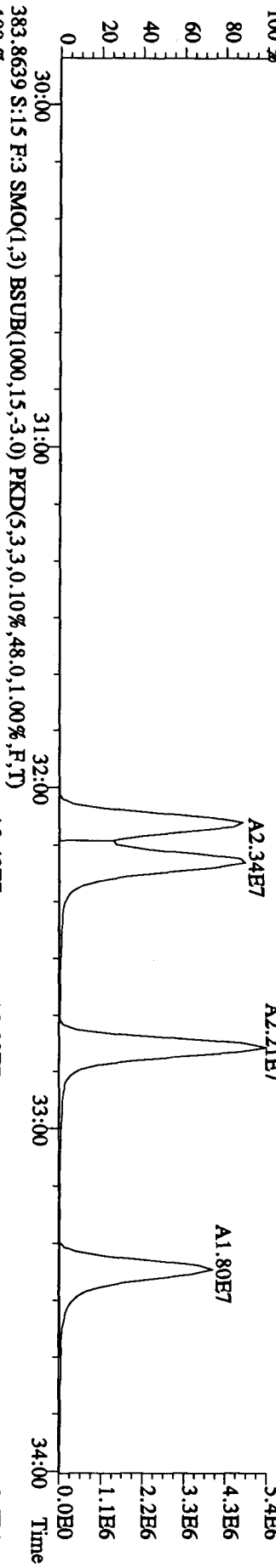
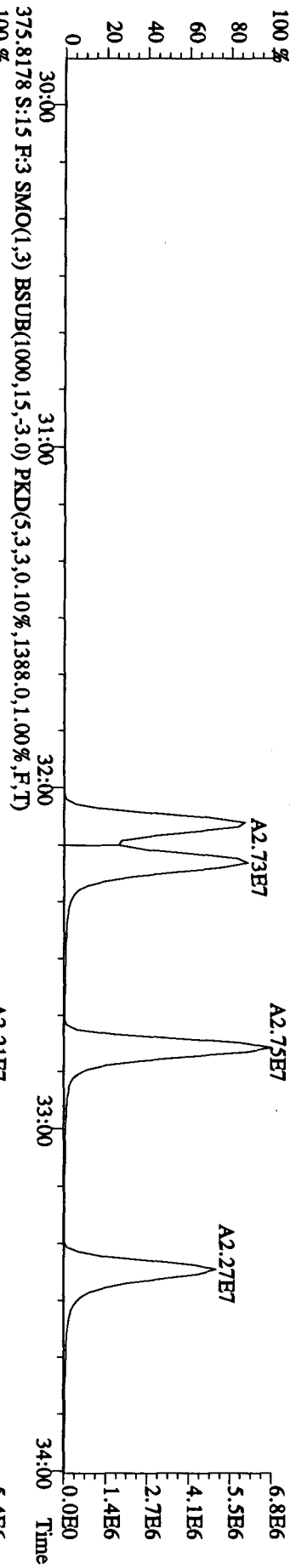
File:22DE09A4D5 #1-596 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#15 Text:ST1222C :CS3 09DXN384 Exp:DIOXIN
 355.8546 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1648,0.1,1.00%,F,T)
 100 %



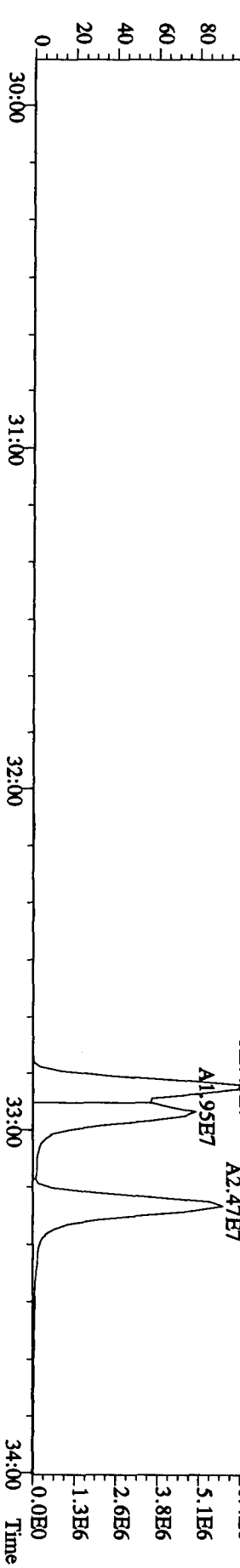
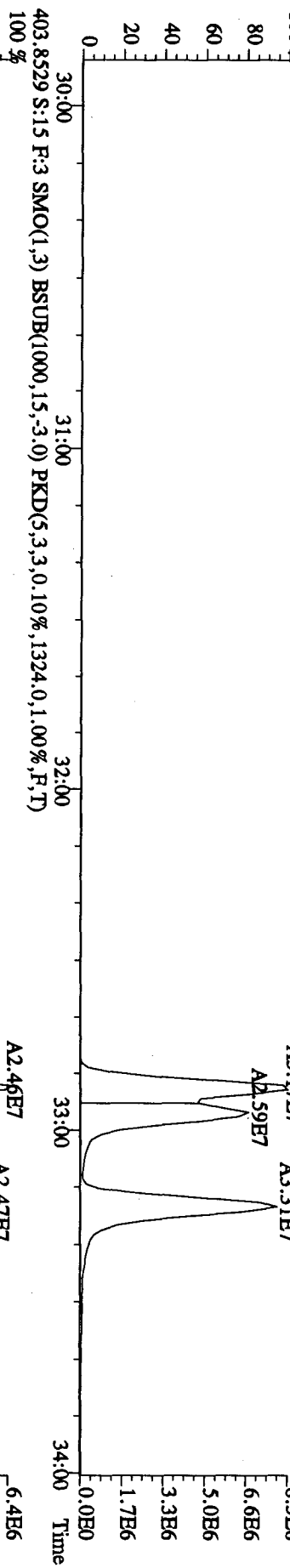
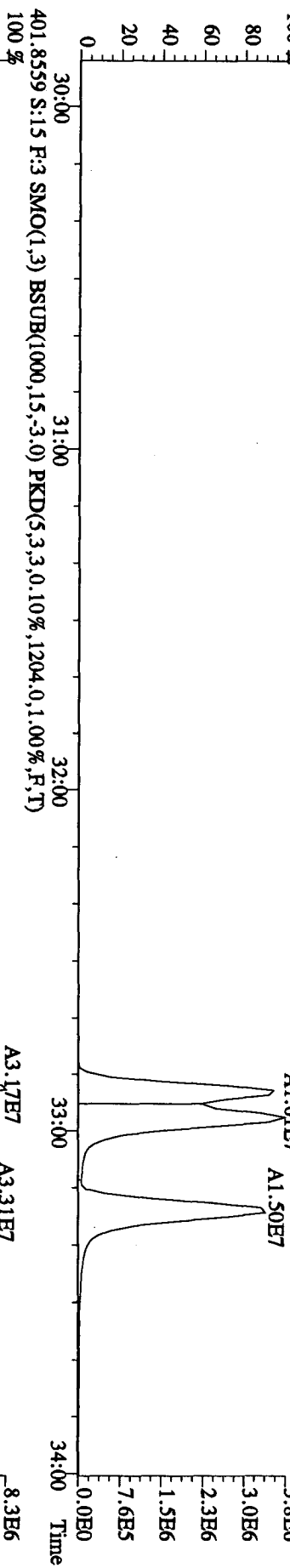
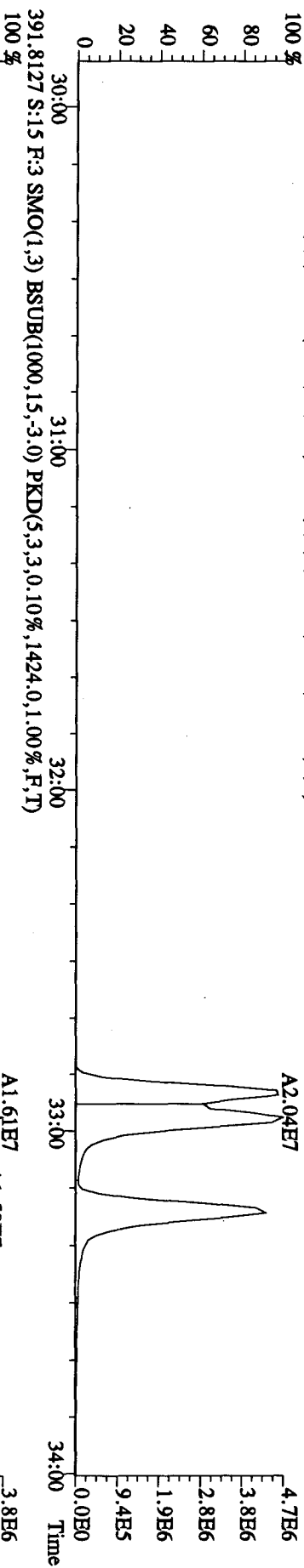
File:22DB09A4D5 #1-314 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-UltimaB

Sample#15 Text:ST1222C :CS3 09DXN384 Exp:DIOXIN

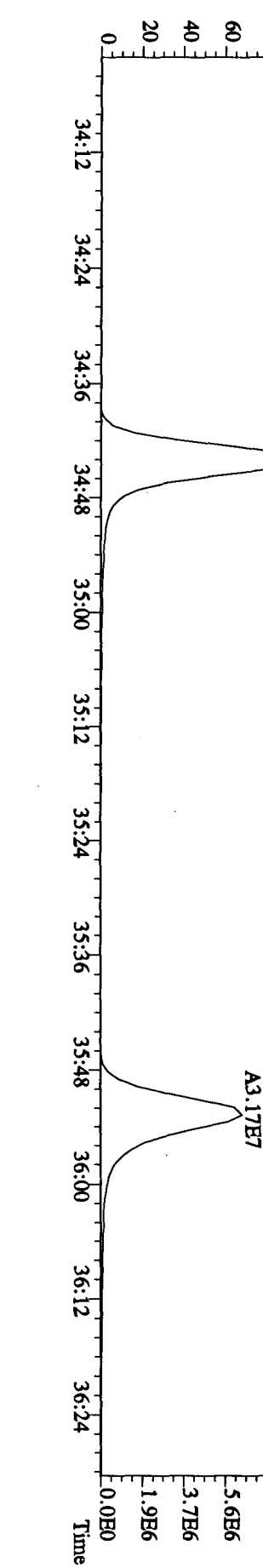
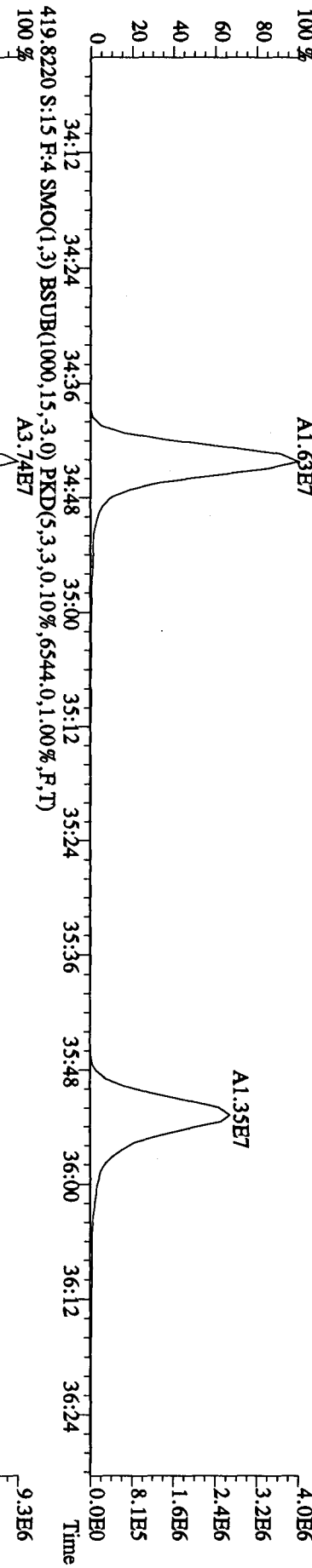
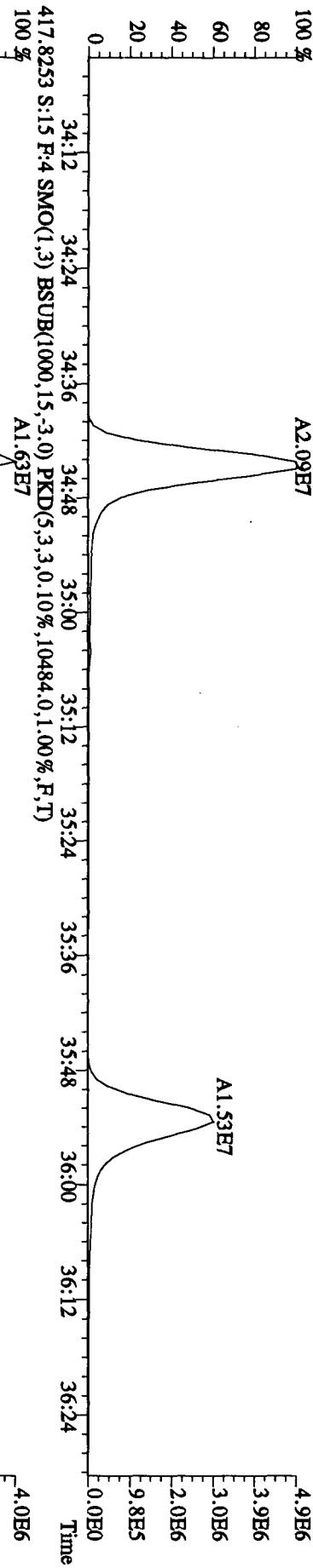
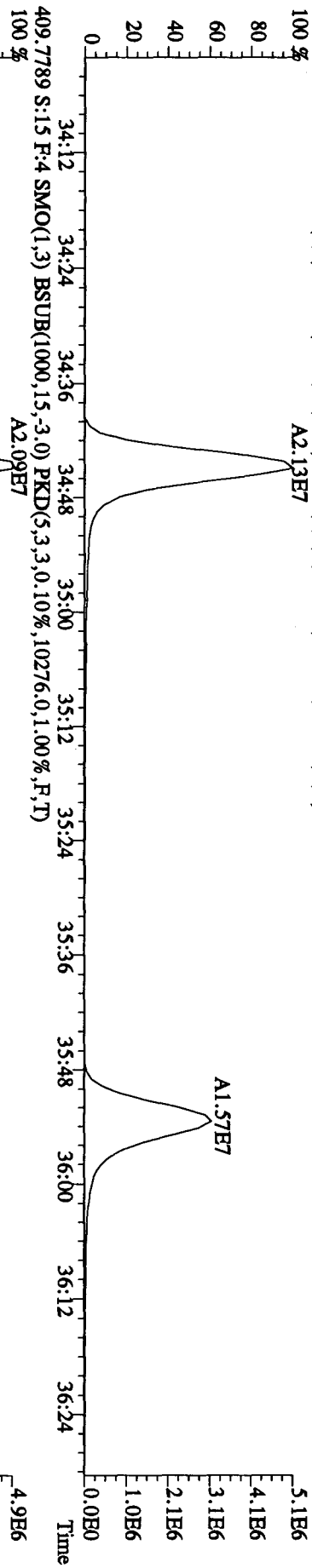
373.8208 S:15 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1484.0,1.00%,F,T)



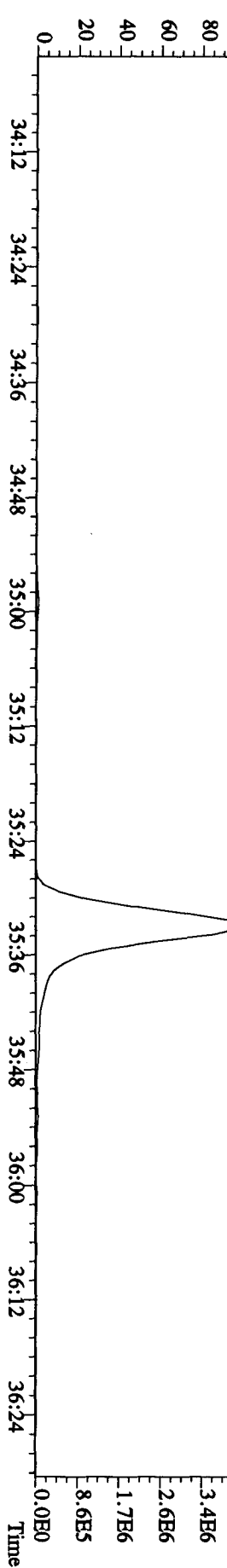
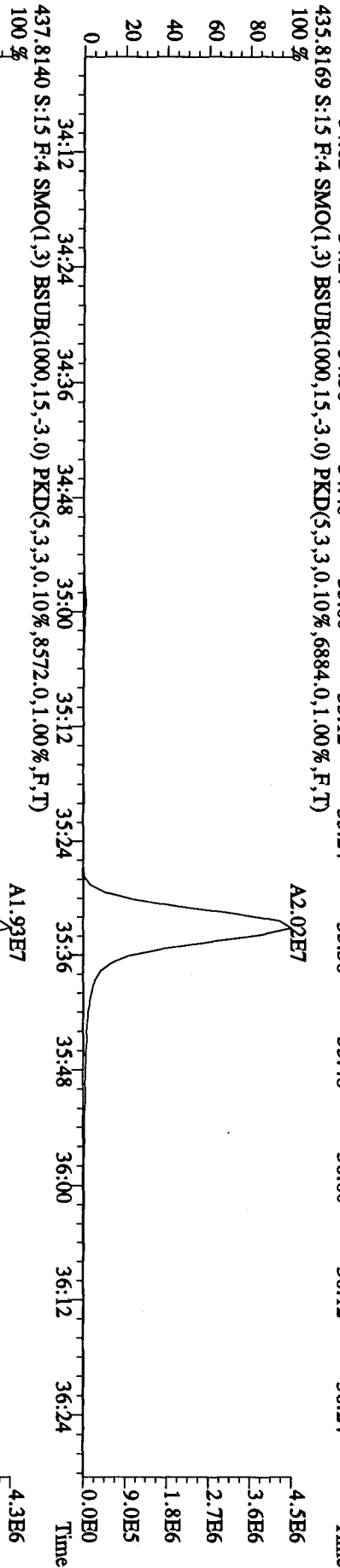
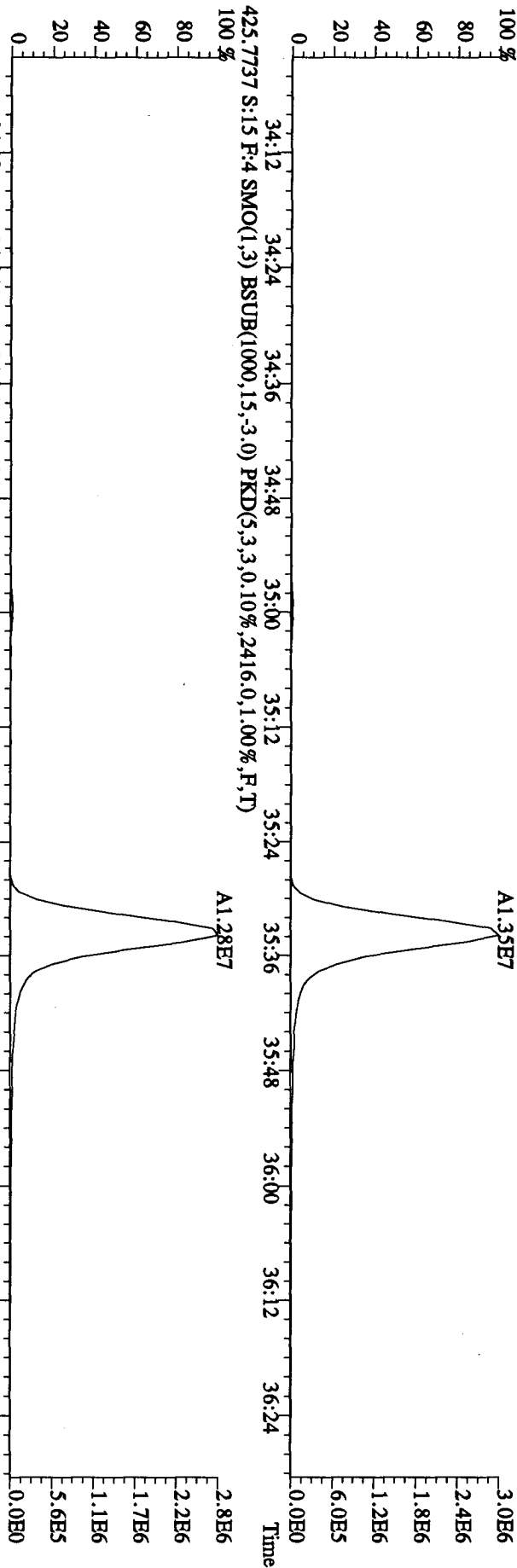
File:22DE09A4D5 #1-314 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#15 Text:ST1222C :CS3 09DXN384 Exp.:DIOXIN
 389.8157 S:15 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,448,0,1,00%,F,T)
 100 %



File:22DE09A4D5 #1-198 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#15 Text:ST1222C :CS3 09DDXN384 Exp:DIOXIN
 407.7818 S:15 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8368,0.1,0.00%,F,T)
 100 %



File: 22DB09A4D5 #1-198 Acq: 23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#15 Text: ST1222C :CS3 09DDXN384 Exp: DIOXIN
 423.7766 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,920.0,1.00%,F,T)
 100 %



File:22DE09A4D5 #1-281 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SFR Autospec-UltimaB

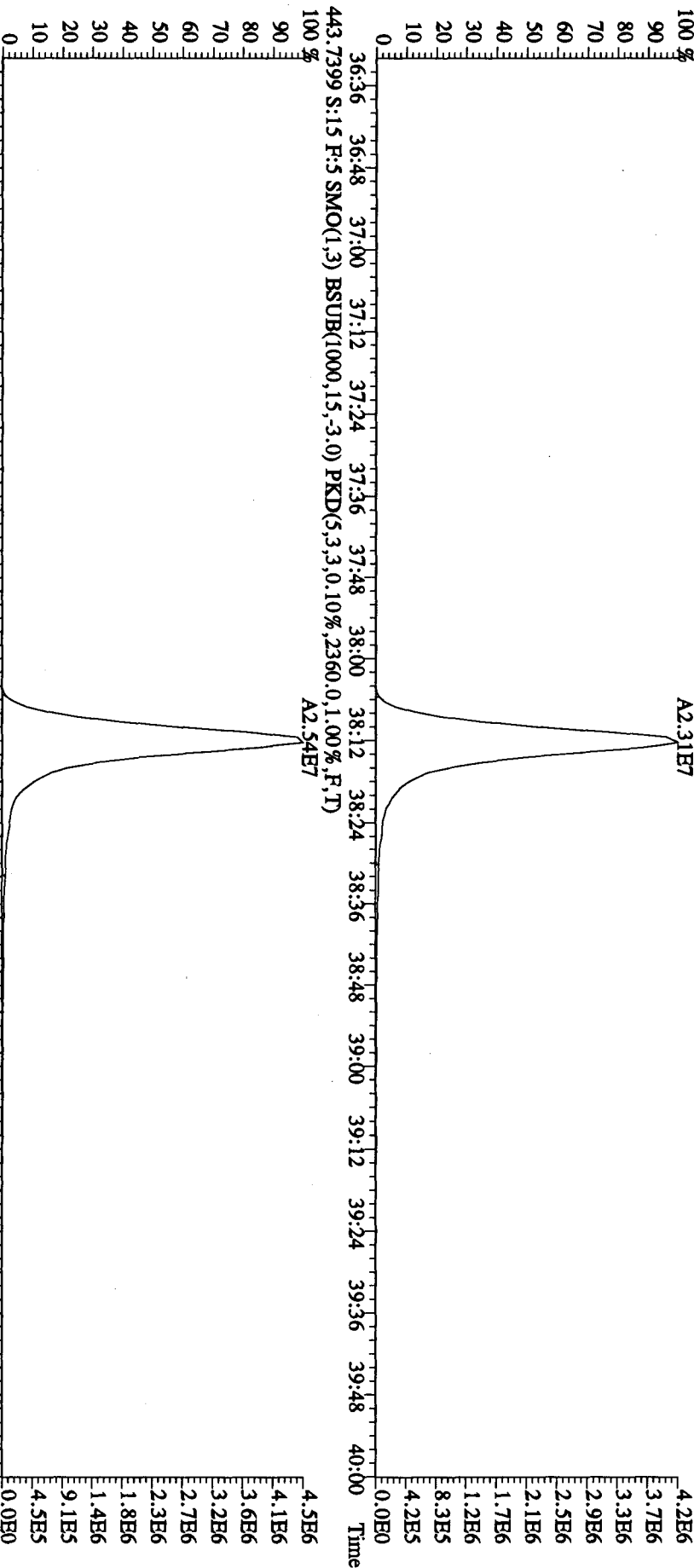
Sample#15 Text:ST1222C :CS3 09DXN384

Exp:DIOXIN

441.7428 S:15 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1020,0,1.00%,F,T)

100%

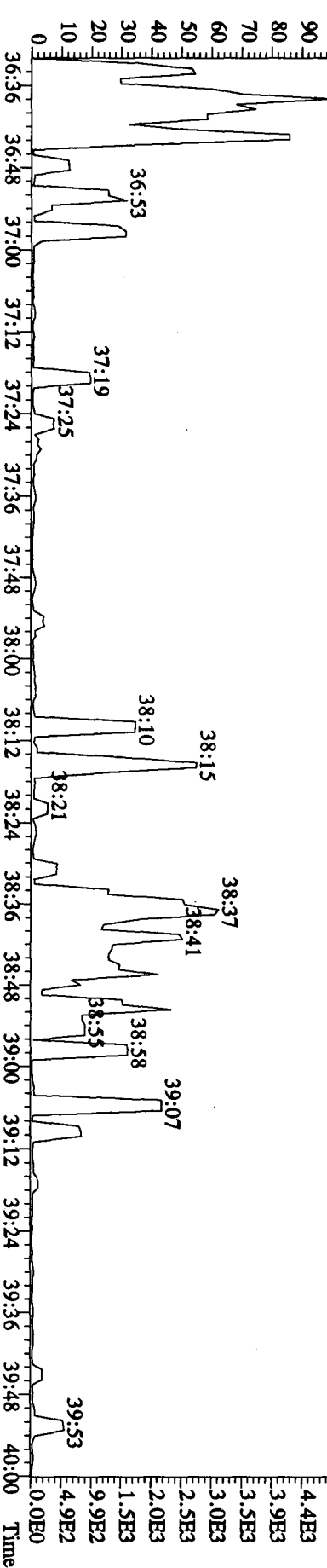
A2.31E7



513.6775 S:15 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,44,0,1.00%,F,T)

100%

A2.54E7



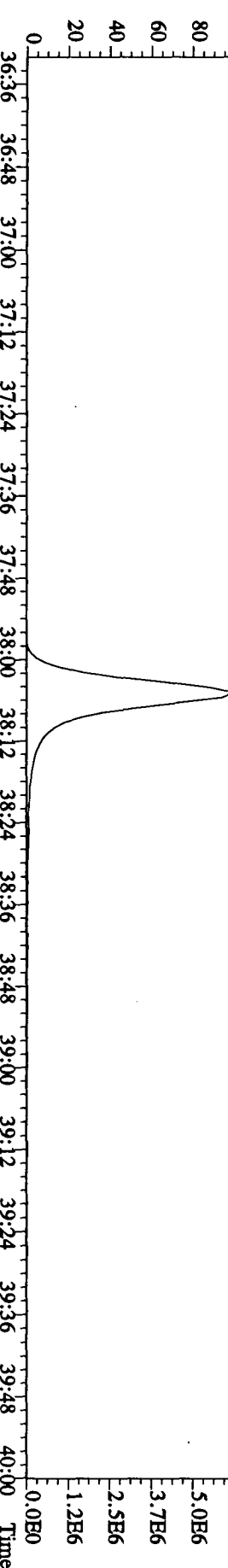
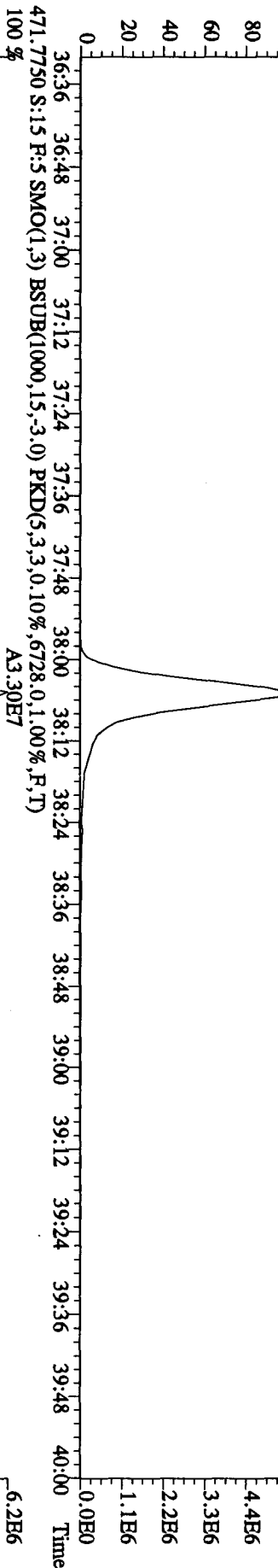
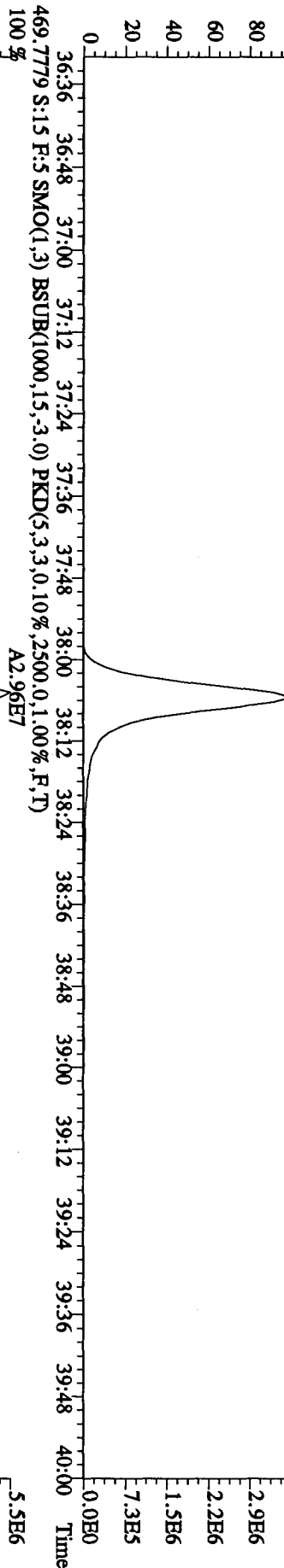
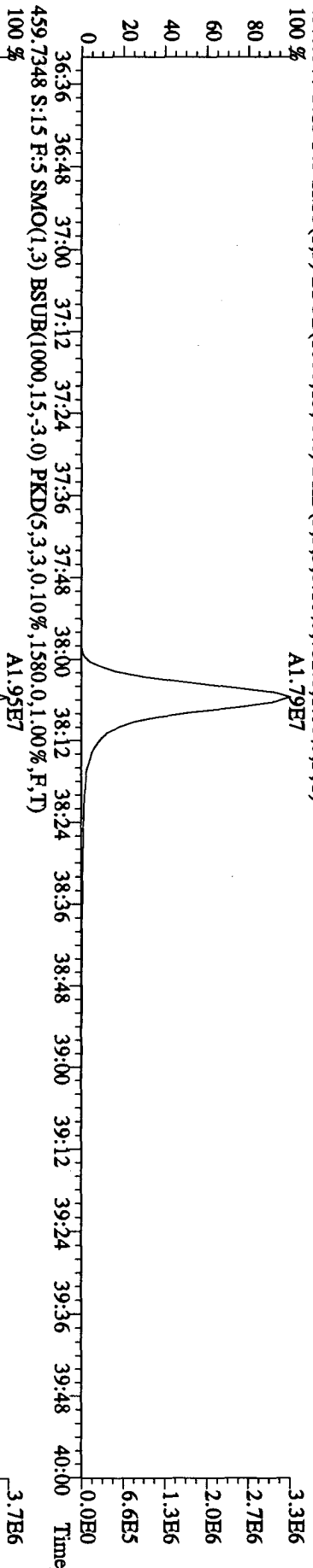
File:22DB09A4D5 #1-281 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-Ultimah

Sample#15 Text:ST1222C :CS3 09DXN384

Exp:DIOXIN

457.7377 S:15 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,752.0,1.00%,F,T)

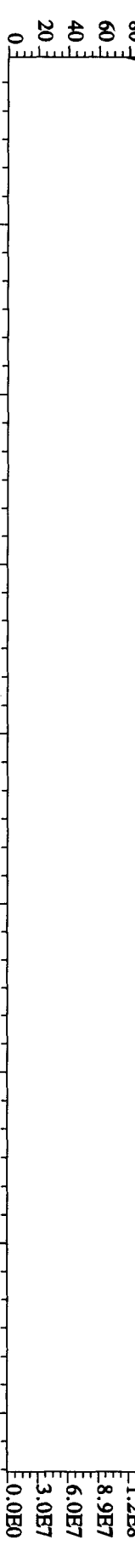
A1.79E7



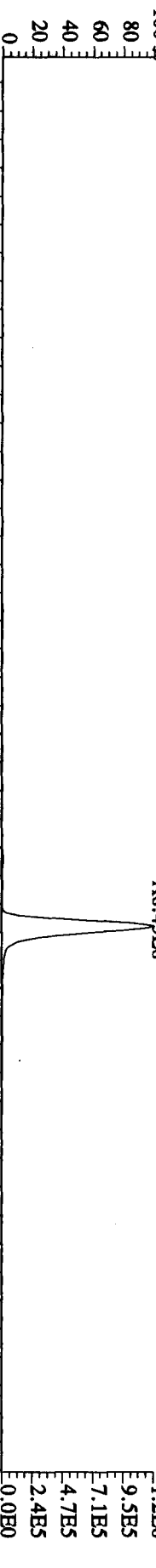
File:22DB09AAD5 #1-578 Acq:23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-UltimaE

Sample#15 Text:ST1222C :CS3 09DXN384 Exp:DIOXIN

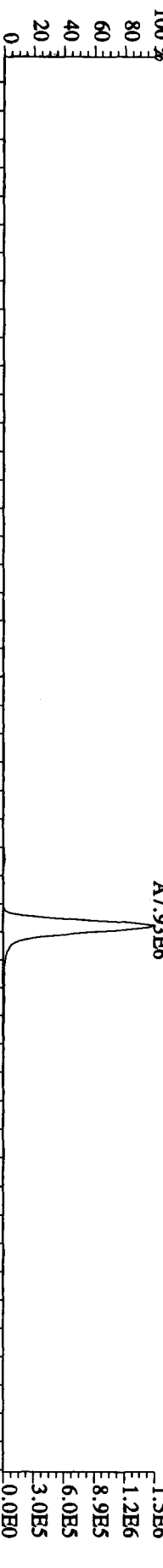
292.9825 S:15 SMO(1.3) PKD(5.3,5,100.00%,0.0,1.00%,F,T) 100% 14:10 14:46 15:24 15:59 16:34 16:34 17:14 17:49 18:38 19:32 20:07 20:51 21:23 21:51



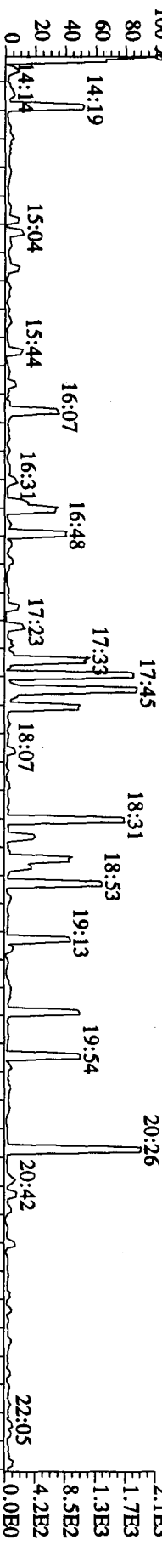
303.9016 S:15 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1924,0,1.00%,F,T)



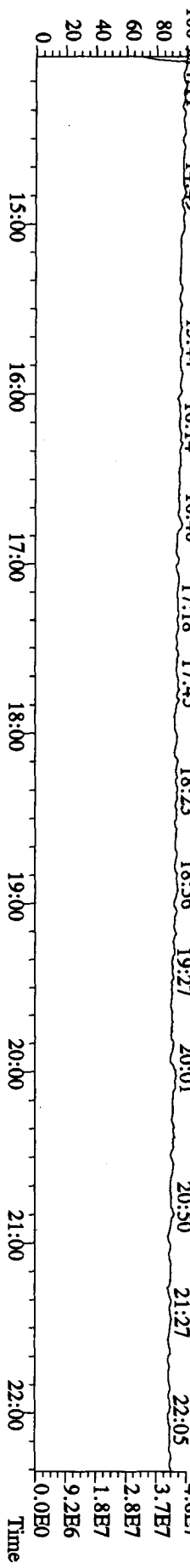
305.8987 S:15 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,2504,0,1.00%,F,T)



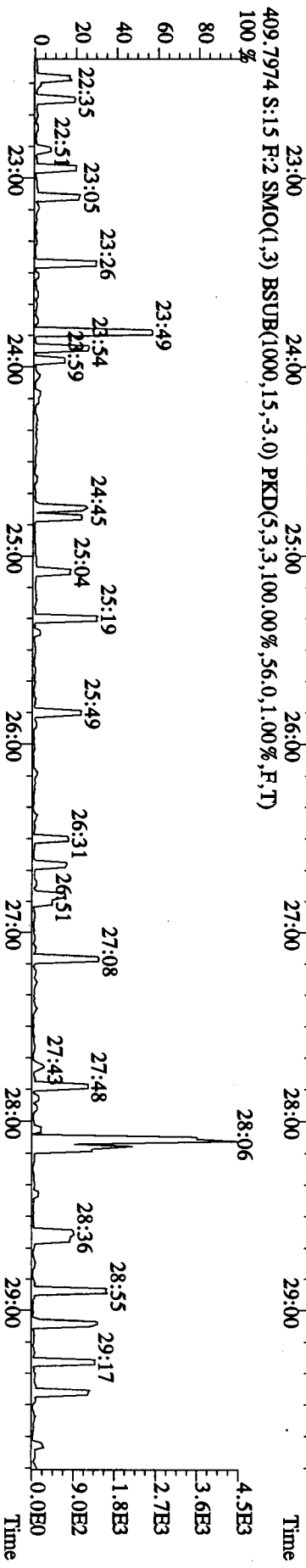
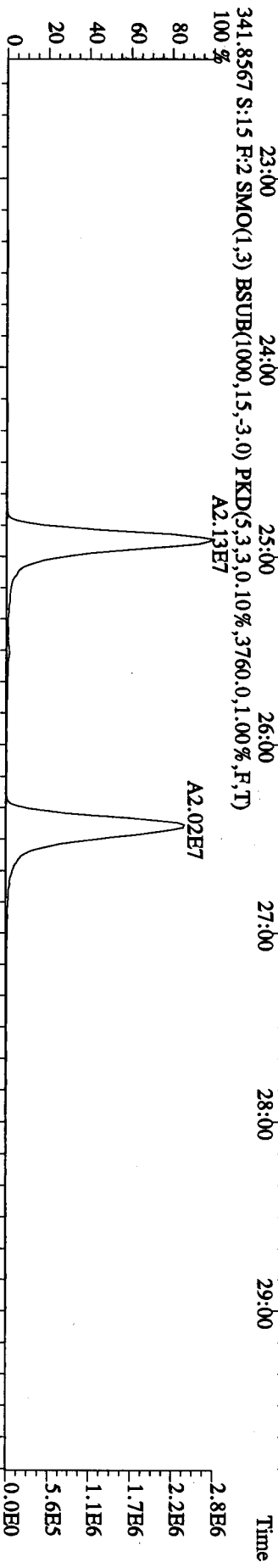
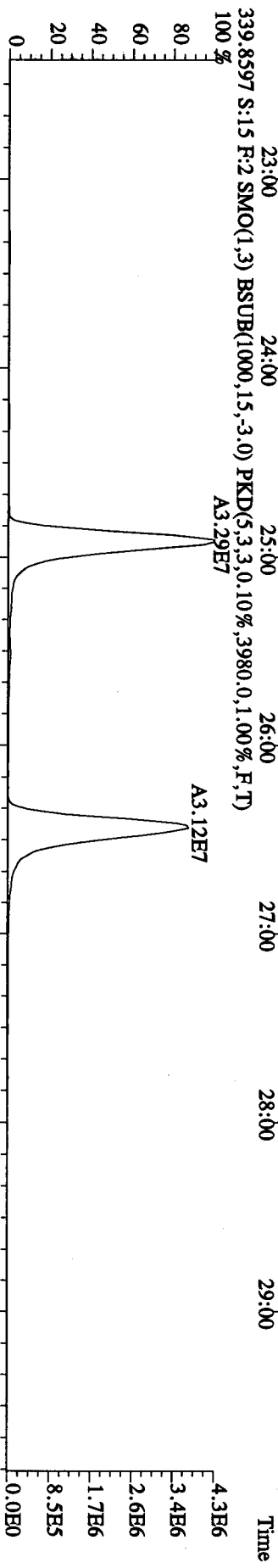
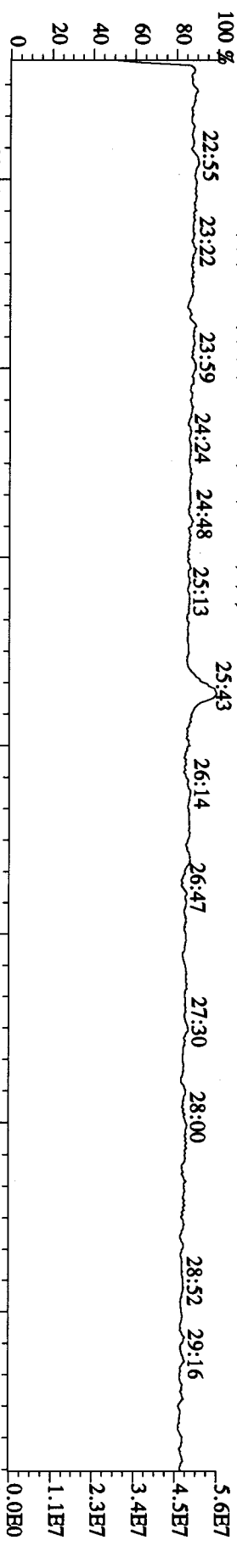
375.8364 S:15 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,60,0,1.00%,F,T)



330.9792 S:15 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



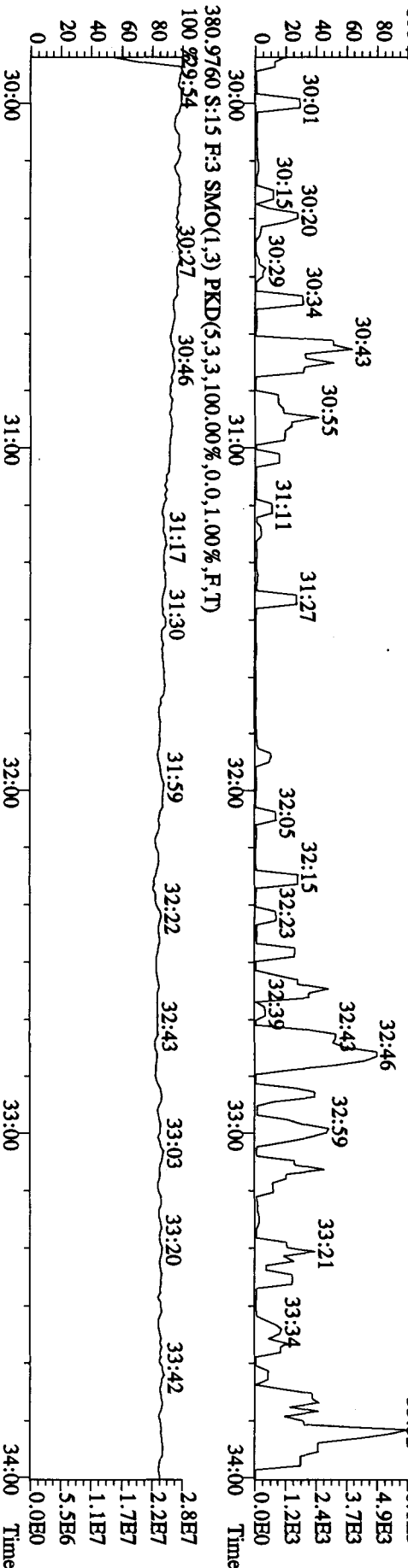
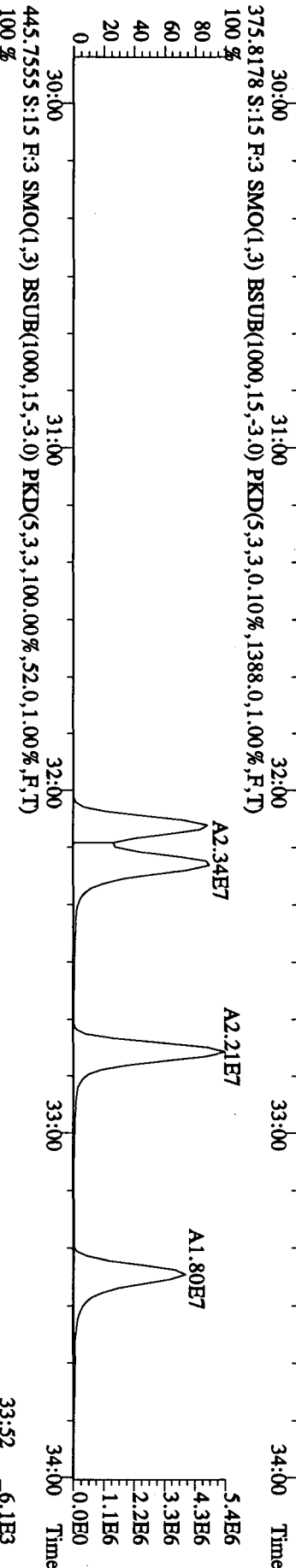
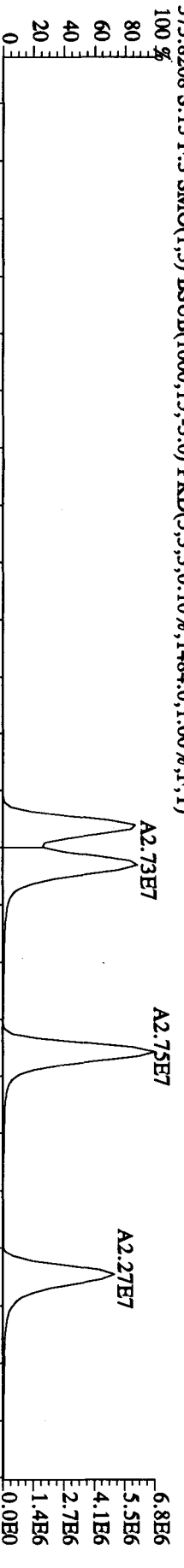
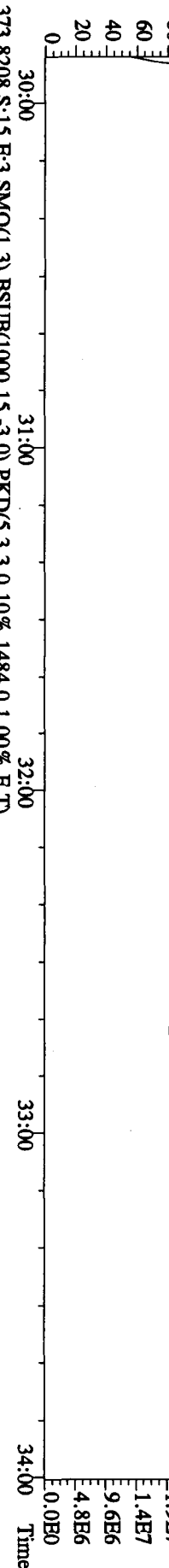
File:22DB09A4D5 #1-596 Acq:23-DEC-2009 07:42:38 GC EI + Voltage SIR Autospec-UltimaB
 Sample#15 Tex:ST1222C :CS3 09DXN384 Exp:DIOXIN
 342.9792 S:15 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 %



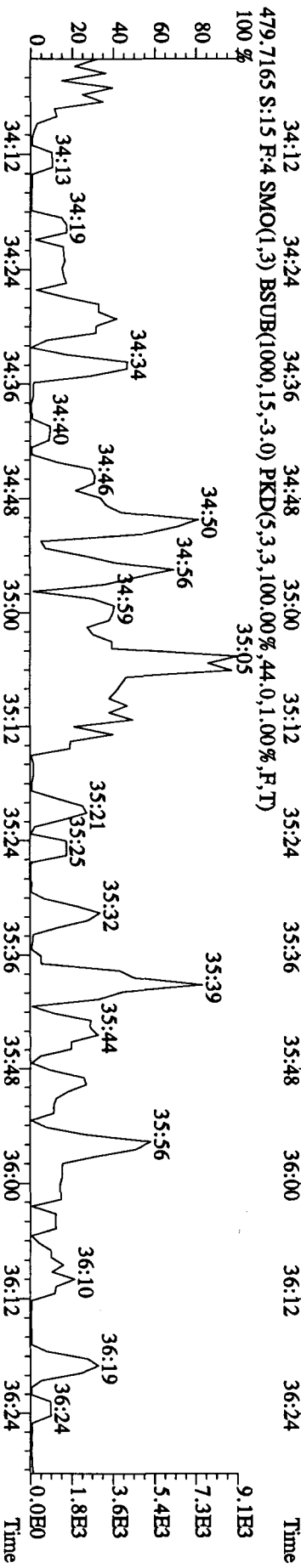
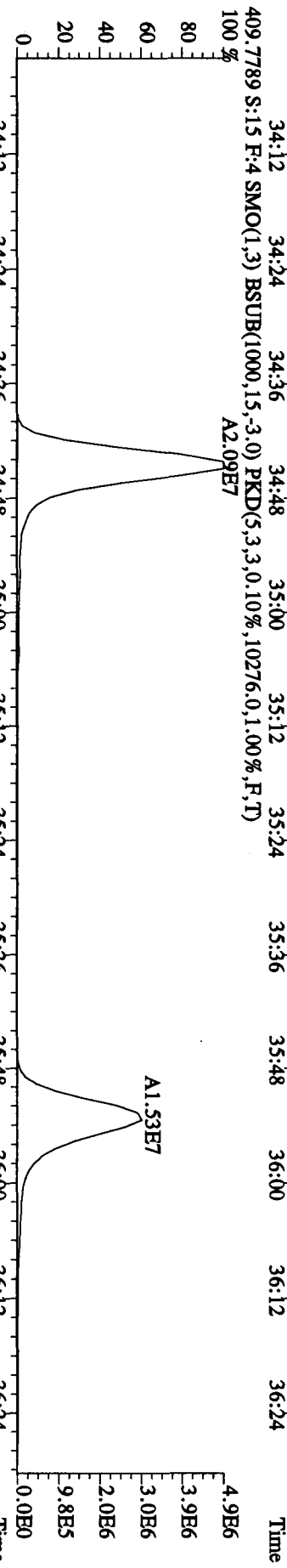
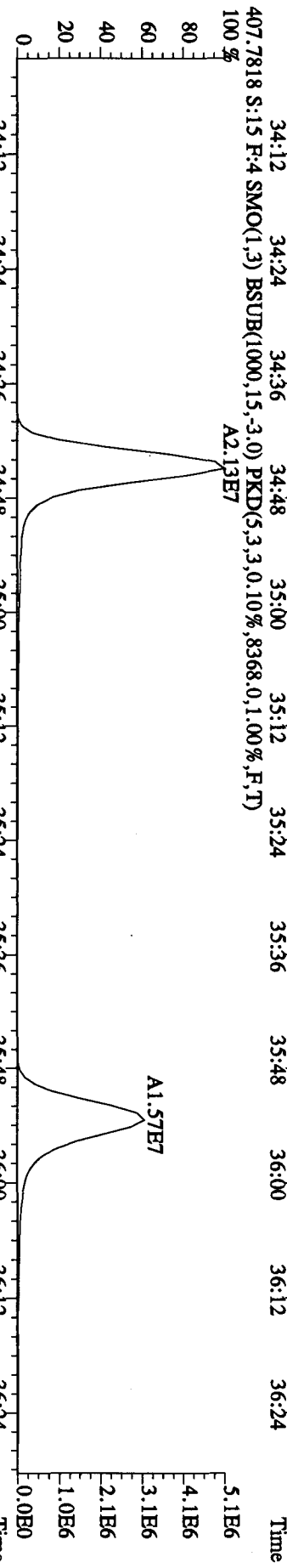
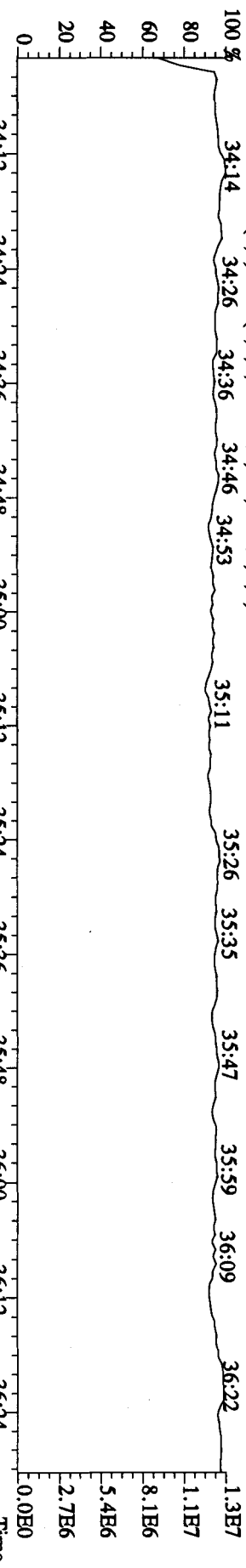
File: 22DE09A4D5 #1-314 Acq: 23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-Ultimate

Sample#15 Text: ST1222C :CS3 09DXN384 Exp: DIOXIN

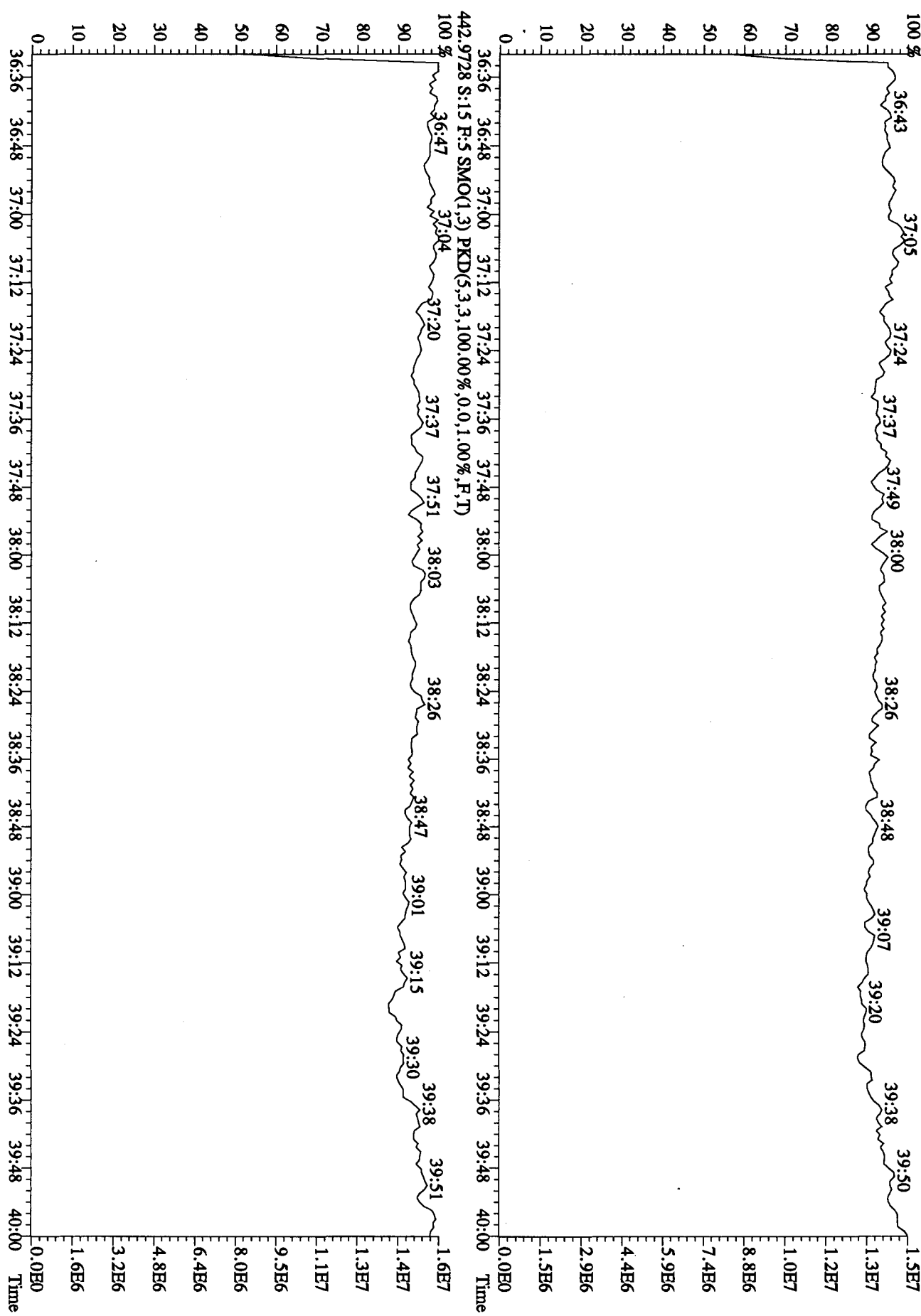
392.9760 S:15 F:3 SMO(1,3) PKD(5,3,3,100,0.0%,0,0,1,00%,F,T) 100 29.54 30:13 30:29 30:47 31:01 31:40 31:59 32:27 32:54 33:17 33:29 33:44



File: 22DE09A4D5 #1-198 Acq: 23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#15 Text: ST1222C :CS3 09DXN384 Exp: DIOXIN



File: 22IDB09A4D5 #1-281 Acq: 23-DEC-2009 07:42:38 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#15 Text: ST1222C :CS3 09DXN384 Exp: DIOXIN
 454.9728 S:15 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Method ID 8290

Associated ICAL 8290091669405

Column ID DB5

Instrument ID 405

STD ID ST1223, ST122A

STD Solution C53 09 D2N384

Analyzed by KSS

Date Analyzed 12/23/09

Std. Pkg. By KSS

Date Std. Pkg. Assembled 12/24/09

Std. Pkg. Reviewed By [Signature]

Date Std. Pkg. Reviewed 12/24/09

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 ✓	✓
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?	✓	✓
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	N/A

COMMENTS: ① Ending CV ST122A > 1% 20%, < 1% 25% for 1,2,3,6,7,8 HxCDF and 1,2,3,4,7,8-HxCDD see NCM # 07-0100970
(ave RRF = 1.64) (ave RRF = 1.05)

* 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: ST1223 File text: CS3 09DXN384
 Run #6 Filename 23DE094D5 S: 1 I: 1
 Acquired: 23-DEC-09 08:45:43 Processed: 23-DEC-09 09:26:12
 Run: ICAL Analyte: 8290 Cal: 82900916094D5 Results: 23DE094D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	76813500	0.82 y	19:41	-	100.00	-	n
13C-2,3,7,8-TCDF	115888100	0.81 y	19:07	1.51	100.00	3.4	n
2,3,7,8-TCDF	14773770	0.80 y	19:08	1.27	10.00	0.1	n
Total TCDF	15014391	0.76 y	18:11	1.27	10.00	0.1	n
13C-2,3,7,8-TCDD	70646200	0.80 y	19:55	0.92	100.00	-0.3	n
2,3,7,8-TCDD	9103720	0.79 y	19:57	1.29	10.00	5.0	n
Total TCDD	9193566	2.30 n	16:45	1.29	10.00	5.0	n
37Cl-2,3,7,8-TCDD	19717040	1.00 y	19:57	2.57	10.00	2.0	n
13C-1,2,3,7,8-PeCDF	76084600	1.58 y	24:53	0.99	100.00	-21.8	n
1,2,3,7,8-PeCDF	51523300	1.54 y	24:56	1.35	50.00	4.0	n
2,3,4,7,8-PeCDF	50009100	1.52 y	26:27	1.31	50.00	5.2	n
Total F2 PeCDF	102459943	0.65 n	23:19	1.33	100.00	4.6	n
Total F1 PeCDF	126572	0.45 n	14:12	1.33	100.00	4.6	n
13C-1,2,3,7,8-PeCDD	45579500	1.54 y	27:15	0.59	100.00	-23.2	n
1,2,3,7,8-PeCDD	28753100	1.63 y	27:16	1.26	50.00	1.6	n
Total PeCDD	28770785	3.56 n	24:53	1.26	50.00	1.6	n
13C-1,2,3,7,8,9-HxCDD	59092900	1.27 y	33:14	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	66180500	0.52 y	32:06	1.12	100.00	-5.7	n
1,2,3,4,7,8-HxCDF	44376000	1.21 y	32:07	1.34	50.00	2.6	n
1,2,3,6,7,8-HxCDF	51472300	1.24 y	32:14	1.56	50.00	10.1	n
2,3,4,6,7,8-HxCDF	47434500	1.21 y	32:46	1.43	50.00	7.5	n
1,2,3,7,8,9-HxCDF	39032200	1.24 y	33:25	1.18	50.00	-1.3	n
Total HxCDF	182315000	1.21 y	32:07	1.38	200.00	5.0	n
13C-1,2,3,6,7,8-HxCDD	45813500	1.32 y	32:57	0.78	100.00	3.8	n
1,2,3,4,7,8-HxCDD	26662200	1.25 y	32:54	1.16	50.00	-6.3	n
1,2,3,6,7,8-HxCDD	35621800	1.27 y	32:58	1.56	50.00	5.1	n
1,2,3,7,8,9-HxCDD	32961100	1.25 y	33:15	1.44	50.00	-2.3	n
Total HxCDD	95245100	1.25 y	32:54	1.39	150.00	-0.9	n
13C-1,2,3,4,6,7,8-HpCDF	52312400	0.44 y	34:45	0.89	100.00	-3.1	n
1,2,3,4,6,7,8-HpCDF	41161500	1.03 y	34:45	1.57	50.00	-1.3	n
1,2,3,4,7,8,9-HpCDF	30047100	1.04 y	35:54	1.15	50.00	-13.7	n
Total HpCDF	71654049	1.03 y	34:45	1.36	100.00	-7.0	n
13C-1,2,3,4,6,7,8-HpCDD	38557200	1.08 y	35:34	0.65	100.00	-8.6	n
1,2,3,4,6,7,8-HpCDD	25624600	1.05 y	35:34	1.33	50.00	1.7	n
Total HpCDD	25881370	0.82 n	35:00	1.33	50.00	1.7	n
13C-OCDD	63954100	0.90 y	38:05	0.54	200.00	-10.7	n
OCDF	47829300	0.91 y	38:13	1.50	100.00	-0.9	n
OCDD	38217500	0.90 y	38:06	1.20	100.00	0.1	n

Run text: ST1222A File text: ST1222A :CS3 09DXN384
 Run #14 Filename 23DE094D5 S: 15 I: 1
 Acquired: 23-DEC-09 19:02:12 Processed: 23-DEC-09 19:51:57
 Run: 23DE094D5 Analyte: 8290 Cal: 82900916094D5 Results: 23DE094D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	55397900	0.83 y	19:41	-	100.00	-	n
13C-2,3,7,8-TCDF	80012400	0.80 y	19:08	1.44	100.00	-1.0	n
2,3,7,8-TCDF	9678760	0.79 y	19:09	1.21	10.00	-5.0	n
Total TCDF	9788775	0.19 n	17:17	1.21	10.00	-5.0	n
13C-2,3,7,8-TCDD	51147800	0.82 y	19:55	0.92	100.00	0.0	n
2,3,7,8-TCDD	6141000	0.76 y	19:56	1.20	10.00	-2.1	n
Total TCDD	6237952	0.76 y	19:56	1.20	10.00	-2.1	n
37Cl-2,3,7,8-TCDD	13830700	1.00 y	19:56	2.50	10.00	-0.7	n
13C-1,2,3,7,8-PeCDF	55484600	1.60 y	24:54	1.00	100.00	-20.9	n
1,2,3,7,8-PeCDF	37196900	1.55 y	24:56	1.34	50.00	3.0	n
2,3,4,7,8-PeCDF	35421400	1.53 y	26:27	1.28	50.00	2.2	n
Total F2 PeCDF	72989069	1.55 y	24:56	1.31	100.00	2.6	n
Total F1 PeCDF	91024	0.43 n	14:14	1.31	100.00	2.6	n
13C-1,2,3,7,8-PeCDD	32254400	1.55 y	27:15	0.58	100.00	-24.6	n
1,2,3,7,8-PeCDD	20591750	1.59 y	27:18	1.28	50.00	2.9	n
Total PeCDD	20688903	1.02 n	24:52	1.28	50.00	2.9	n
13C-1,2,3,7,8,9-HxCDD	40339500	1.23 y	33:14	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	44275800	0.52 y	32:06	1.10	100.00	-7.6	n
1,2,3,4,7,8-HxCDF	28147600	1.18 y	32:07	1.27	50.00	-2.7	n
1,2,3,6,7,8-HxCDF	38109500	1.21 y	32:13	1.72	50.00	21.9	n
2,3,4,6,7,8-HxCDF	32670300	1.23 y	32:47	1.48	50.00	10.6	n
1,2,3,7,8,9-HxCDF	25707400	1.22 y	33:26	1.16	50.00	-2.9	n
Total HxCDF	124744360	1.02 n	31:04	1.41	200.00	7.3	n
13C-1,2,3,6,7,8-HxCDD	35480900	1.29 y	32:57	0.88	100.00	17.8	n
1,2,3,4,7,8-HxCDD	16590180	1.25 y	32:54	0.94	50.00	-24.7	y
1,2,3,6,7,8-HxCDD	24785200	1.28 y	32:59	1.40	50.00	-5.6	y
1,2,3,7,8,9-HxCDD	23198100	1.27 y	33:14	1.31	50.00	-11.2	n
Total HxCDD	64673915	1.25 y	32:54	1.21	150.00	-13.2	y
13C-1,2,3,4,6,7,8-HpCDF	37278500	0.43 y	34:45	0.92	100.00	1.2	n
1,2,3,4,6,7,8-HpCDF	29442800	1.02 y	34:45	1.58	50.00	-1.0	n
1,2,3,4,7,8,9-HpCDF	21002300	1.02 y	35:54	1.13	50.00	-15.4	n
Total HpCDF	50445100	1.02 y	34:45	1.35	100.00	-7.5	n
13C-1,2,3,4,6,7,8-HpCDD	27298000	1.05 y	35:34	0.68	100.00	-5.2	n
1,2,3,4,6,7,8-HpCDD	18059010	1.05 y	35:35	1.32	50.00	1.2	n
Total HpCDD	18166829	1.04 y	35:01	1.32	50.00	1.2	n
13C-OCDD	45411100	0.90 y	38:06	0.56	200.00	-7.1	n
OCDF	33241800	0.92 y	38:13	1.46	100.00	-3.0	n
OCDD	26907400	0.88 y	38:07	1.19	100.00	-0.7	n

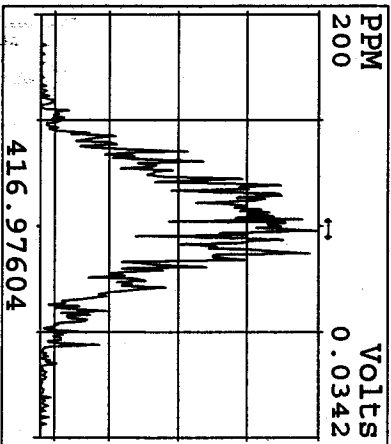
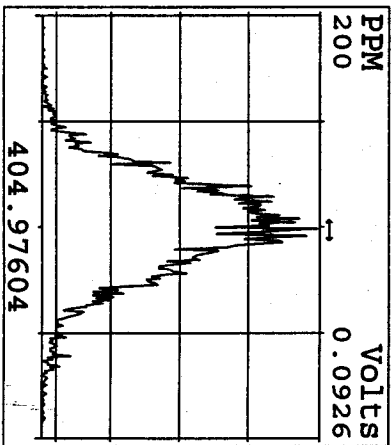
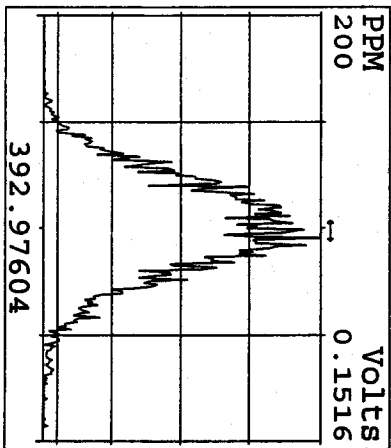
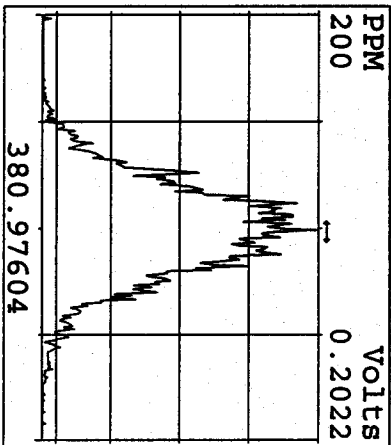
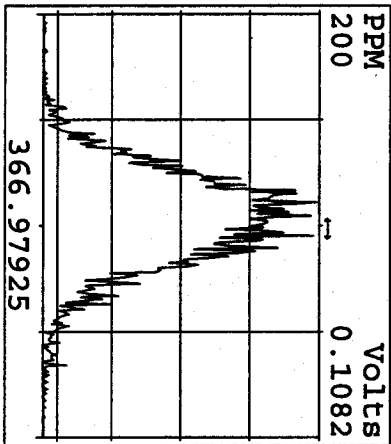
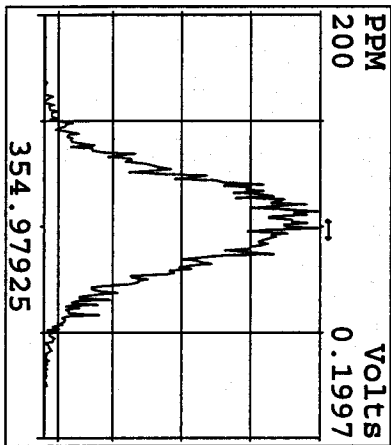
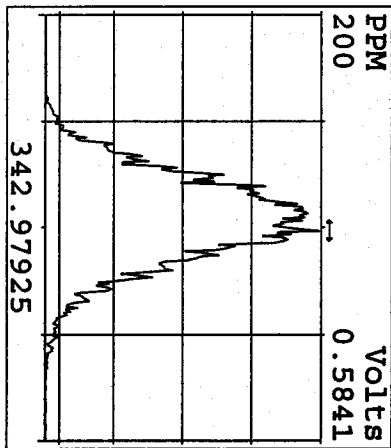
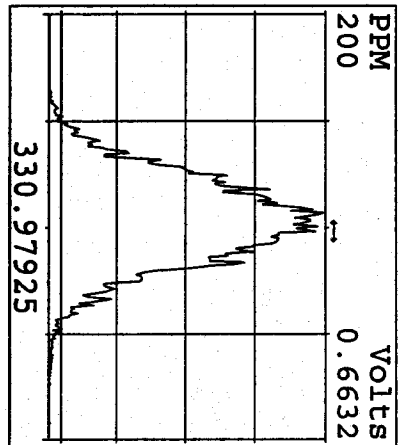
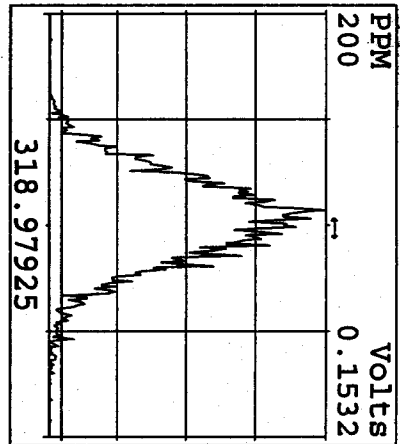
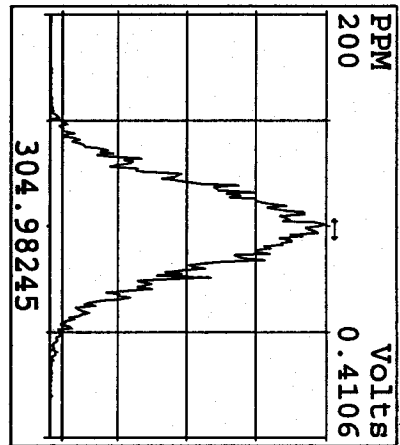
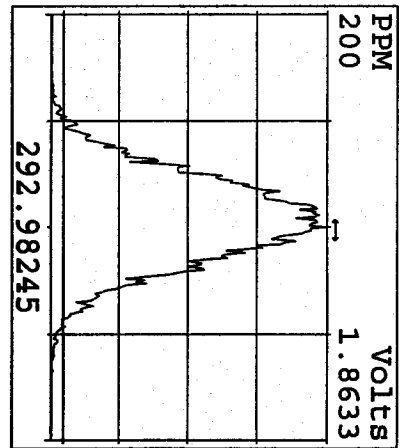
Run text: ST1222A File text: ST1222A :CS3 09DXN384
 Run #14 Filename 23DE094D5 S: 15 I: 1
 Acquired: 23-DEC-09 19:02:12 Processed: 23-DEC-09 19:51:57
 Run: 23DE094D5 Analyte: 8290 Cal: 82900916094D5 Results: 23DE094D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	55397900	0.83 y	19:41	-	100.00	-	n
13C-2,3,7,8-TCDF	80012400	0.80 y	19:08	1.44	100.00	-1.0	n
2,3,7,8-TCDF	9678760	0.79 y	19:09	1.21	10.00	-5.0	n
Total TCDF	9788775	0.19 n	17:17	1.21	10.00	-5.0	n
13C-2,3,7,8-TCDD	51147800	0.82 y	19:55	0.92	100.00	0.0	n
2,3,7,8-TCDD	6141000	0.76 y	19:56	1.20	10.00	-2.1	n
Total TCDD	6237952	0.76 y	19:56	1.20	10.00	-2.1	n
37Cl-2,3,7,8-TCDD	13830700	1.00 y	19:56	2.50	10.00	-0.7	n
13C-1,2,3,7,8-PeCDF	55484600	1.60 y	24:54	1.00	100.00	-20.9	n
1,2,3,7,8-PeCDF	37196900	1.55 y	24:56	1.34	50.00	3.0	n
2,3,4,7,8-PeCDF	35421400	1.53 y	26:27	1.28	50.00	2.2	n
Total F2 PeCDF	72989069	1.55 y	24:56	1.31	100.00	2.6	n
Total F1 PeCDF	91024	0.43 n	14:14	1.31	100.00	2.6	n
13C-1,2,3,7,8-PeCDD	32254400	1.55 y	27:15	0.58	100.00	-24.6	n
1,2,3,7,8-PeCDD	20591750	1.59 y	27:18	1.28	50.00	2.9	n
Total PeCDD	20688903	1.02 n	24:52	1.28	50.00	2.9	n
13C-1,2,3,7,8,9-HxCDD	40339500	1.23 y	33:14	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	44275800	0.52 y	32:06	1.10	100.00	-7.6	n
1,2,3,4,7,8-HxCDF	28147600	1.18 y	32:07	1.27	50.00	-2.7	n
1,2,3,6,7,8-HxCDF	38109500	1.21 y	32:13	1.72	50.00	21.9	n
2,3,4,6,7,8-HxCDF	32670300	1.23 y	32:47	1.48	50.00	10.6	n
1,2,3,7,8,9-HxCDF	25707400	1.22 y	33:26	1.16	50.00	-2.9	n
Total HxCDF	124744360	1.02 n	31:04	1.41	200.00	7.3	n
13C-1,2,3,6,7,8-HxCDD	35480900	1.29 y	32:57	0.88	100.00	17.8	n
1,2,3,4,7,8-HxCDD	15204660	1.25 y	32:54	0.86	50.00	-31.0	n
1,2,3,6,7,8-HxCDD	26137900	1.27 y	32:59	1.47	50.00	-0.4	n
1,2,3,7,8,9-HxCDD	23198100	1.27 y	33:14	1.31	50.00	-11.2	n
Total HxCDD	64641086	1.25 y	32:54	1.21	150.00	-13.3	n
13C-1,2,3,4,6,7,8-HpCDF	37278500	0.43 y	34:45	0.92	100.00	1.2	n
1,2,3,4,6,7,8-HpCDF	29442800	1.02 y	34:45	1.58	50.00	-1.0	n
1,2,3,4,7,8,9-HpCDF	21002300	1.02 y	35:54	1.13	50.00	-15.4	n
Total HpCDF	50445100	1.02 y	34:45	1.35	100.00	-7.5	n
13C-1,2,3,4,6,7,8-HpCDD	27298000	1.05 y	35:34	0.68	100.00	-5.2	n
1,2,3,4,6,7,8-HpCDD	18059010	1.05 y	35:35	1.32	50.00	1.2	n
Total HpCDD	18166829	1.04 y	35:01	1.32	50.00	1.2	n
13C-OCDD	45411100	0.90 y	38:06	0.56	200.00	-7.1	n
OCDF	33241800	0.92 y	38:13	1.46	100.00	-3.0	n
OCDD	26907400	0.88 y	38:07	1.19	100.00	-0.7	n

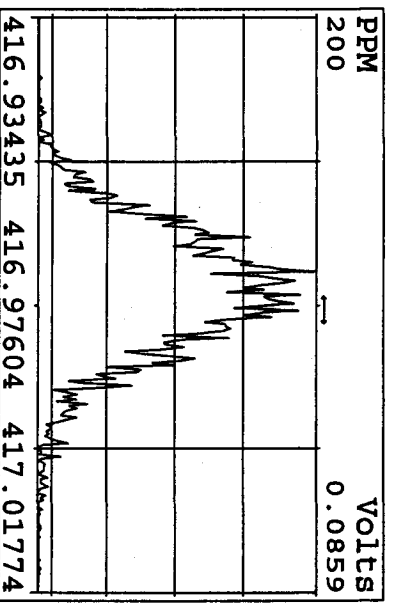
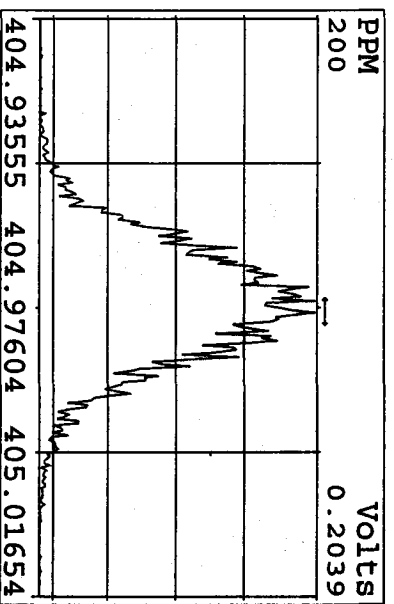
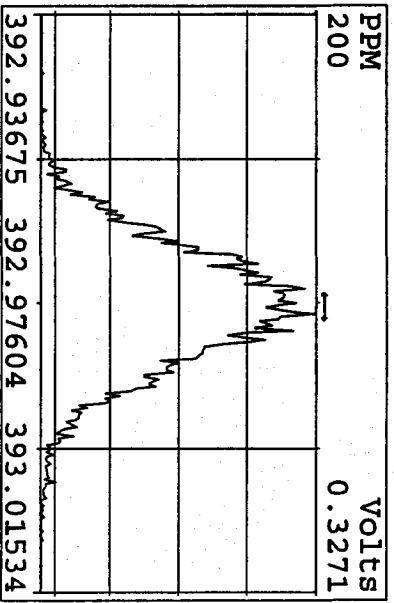
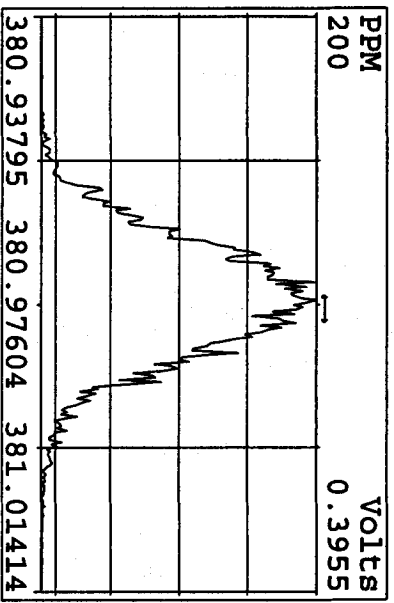
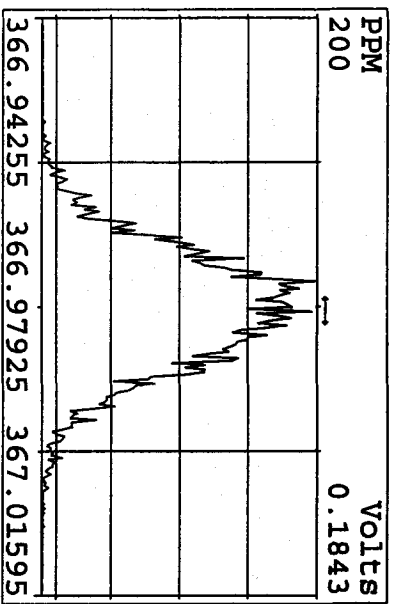
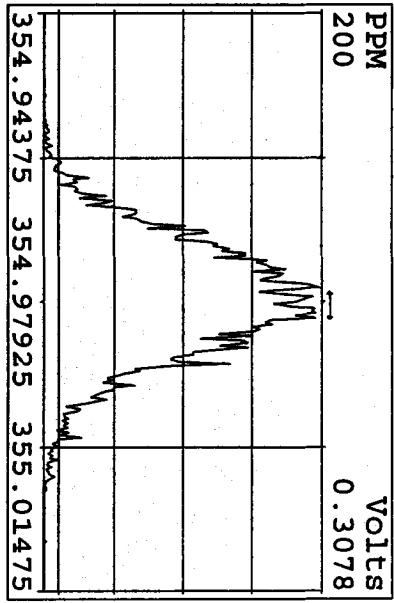
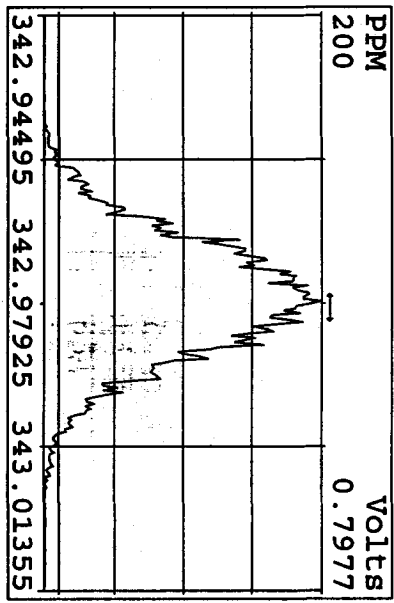
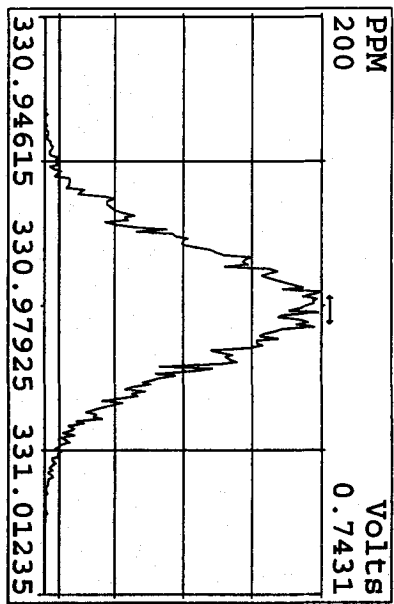
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
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23DE094D5	2	CP1223	DB-5 CPSM 3732-03				1.00000	
23DE094D5	3	SB1223	Solvent Blank C-14				1.00000	
23DE094D5	4	LPL78-1-AA	G9K170576-1	20	8290/WATER	36	1.01660	L
23DE094D5	5	LRFP3-1-ACC	G9L210000-263 (506-1LCS)	20	1613B/WATER	71	1.00000	L
23DE094D5	6	LRFP3-1-AAB	G9L210000-263 (506-1MB)	20	1613B/WATER		1.00000	L
23DE094D5	7	LQV0W-1-AA	G9L100506-1	20	1613B/WATER		1.03340	L
23DE094D5	8	LQV20-1-AA	G9L100517-1	20	1613B/WATER		1.04680	L
23DE094D5	9	LQ2LC-2-AC	G9L120491-6RX ✓	10	8290/SOLID	70	10.18000	g
23DE094D5	10	LQ2LD-2-AC	G9L120491-7RX ✓	10	8290/SOLID		10.00000	g
23DE094D5	11	LQ2LE-2-AC	G9L120491-8RX ✓	10	8290/SOLID		10.13000	g
23DE094D5	12	LQ2LE-2-AD	G9L120491-8SRX ✓	10	8290/SOLID		10.19000	g
23DE094D5	13	LQ2LE-2-AE	G9L120491-8DRX ✓	10	8290/SOLID		10.12000	g
23DE094D5	14	SB1223A	Solvent Blank C-14				1.00000	
23DE094D5	15	ST1222A	CS3 09DXN384				1.00000	
23DE094D5	16						1.00000	
23DE094D5	17						1.00000	
23DE094D5	18						1.00000	
23DE094D5	19						1.00000	
23DE094D5	20						1.00000	
23DE094D5	21		KSS, AVP, AM 12-23-09				1.00000	

12/23/09

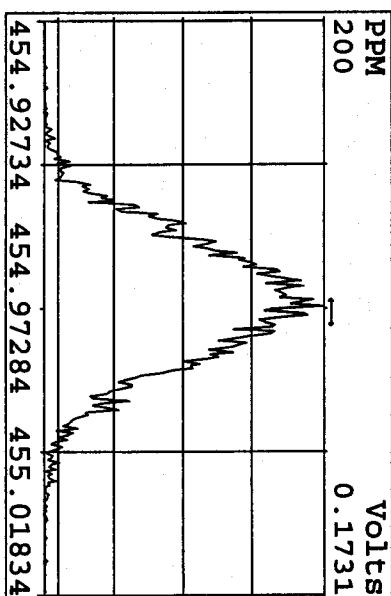
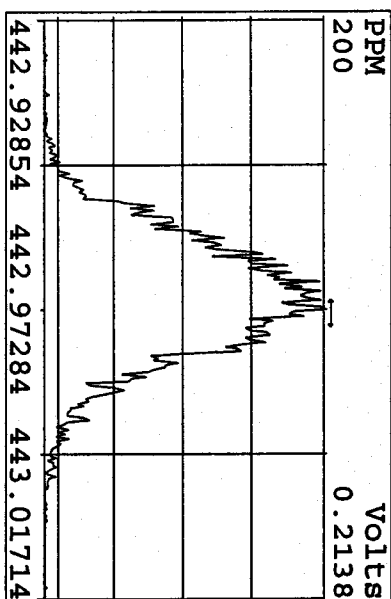
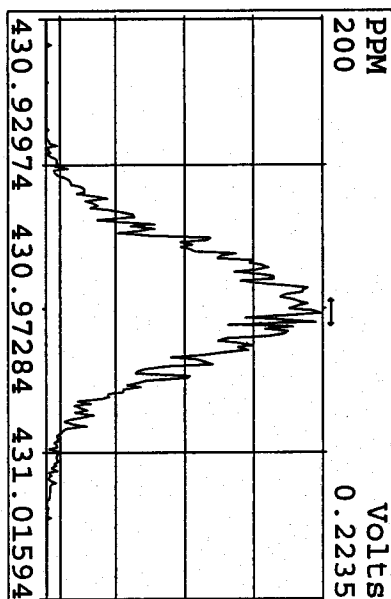
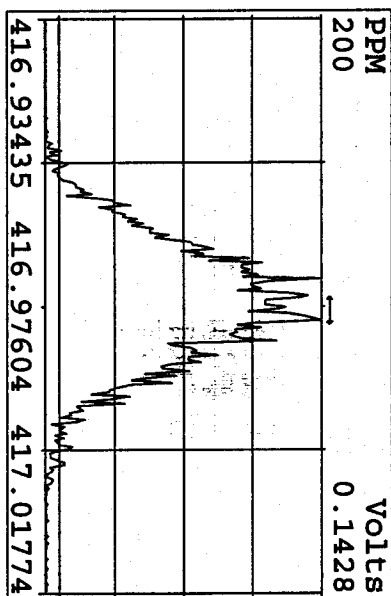
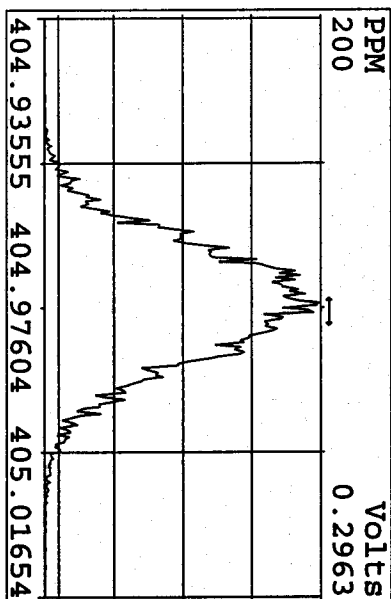
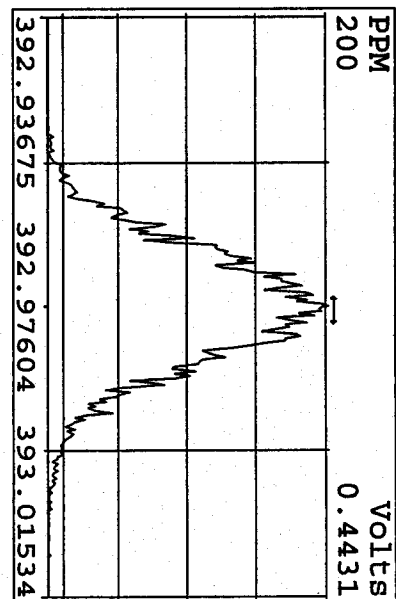
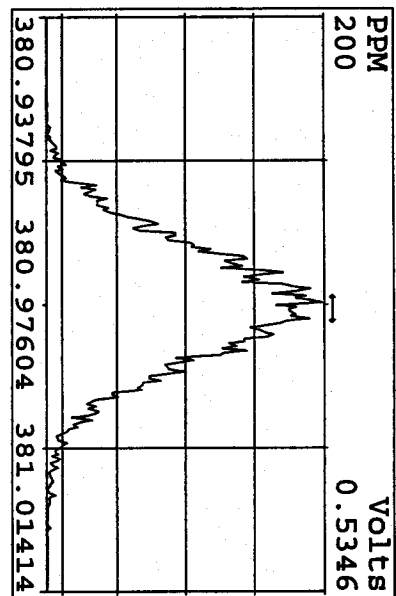
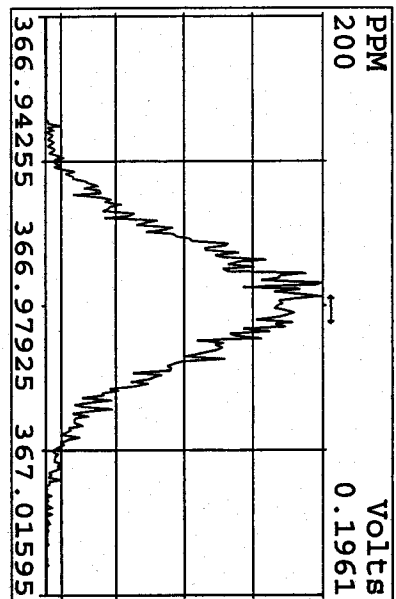
Peak Locate Examination: 23-DEC-2009: 08:43 File: 23DDE094D5
Experiment: DIOXIN Function: 1 Reference: PFK



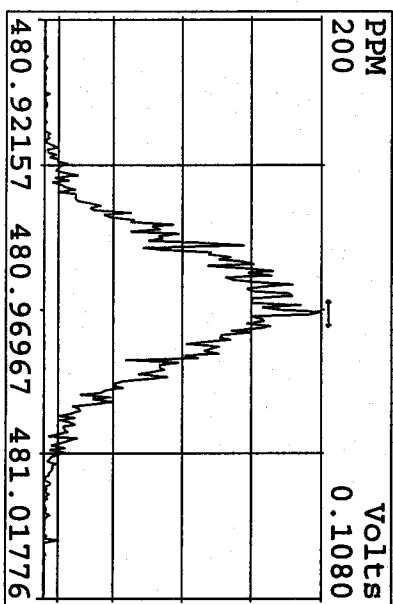
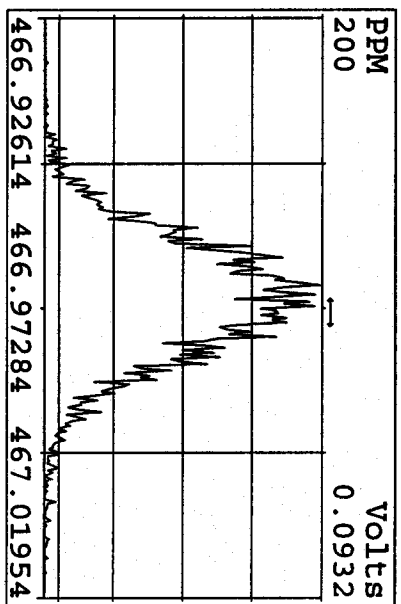
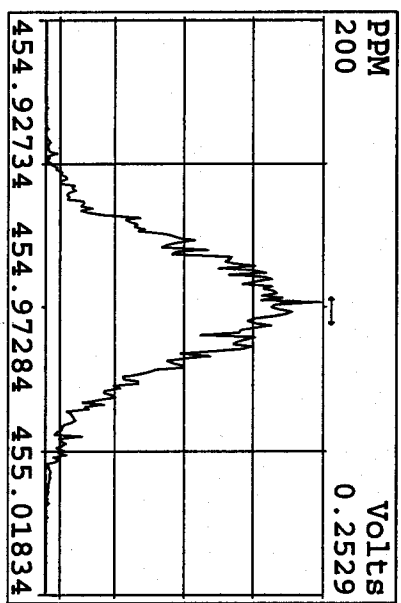
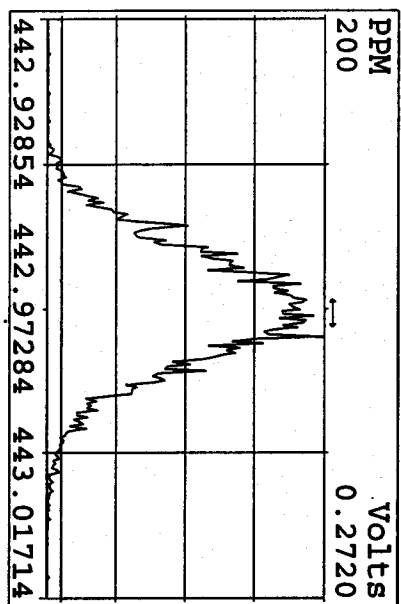
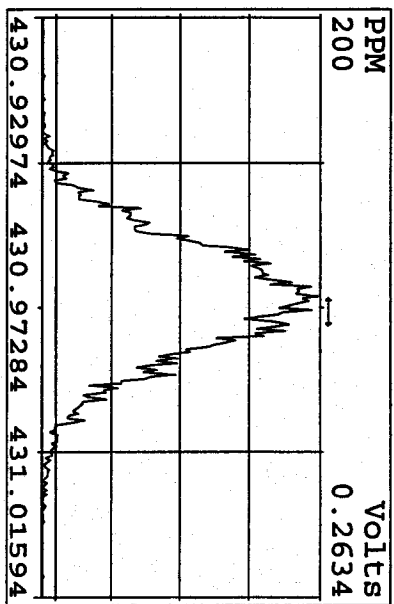
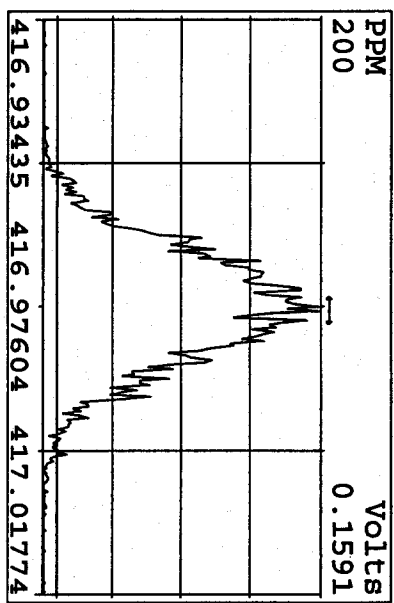
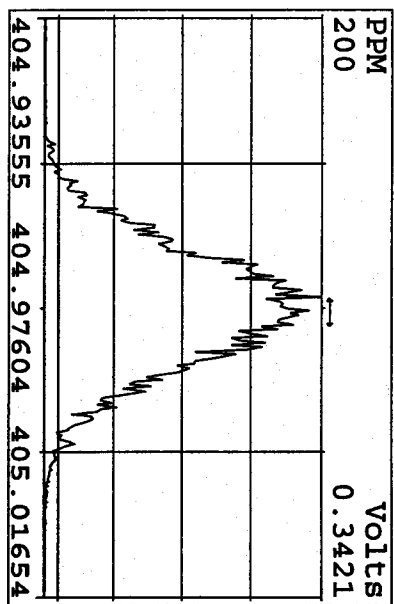
Peak Locate Examination: 23-DEC-2009:08:44 File: 23DE094D5
 Experiment: DIOXIN Function: 2 Reference: PFK



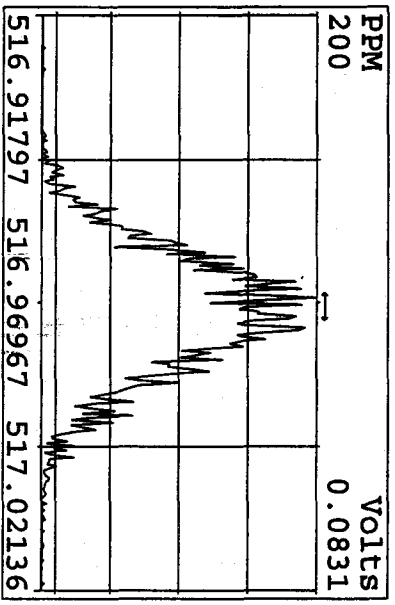
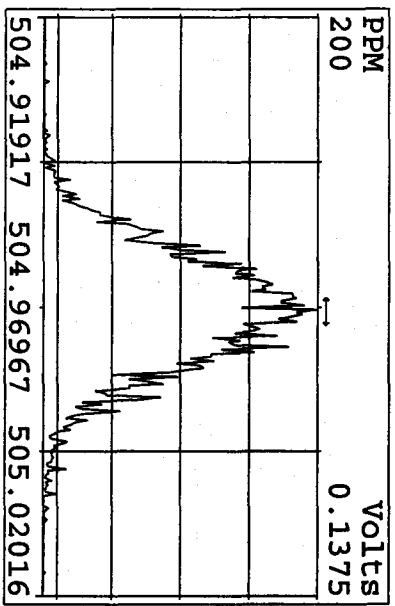
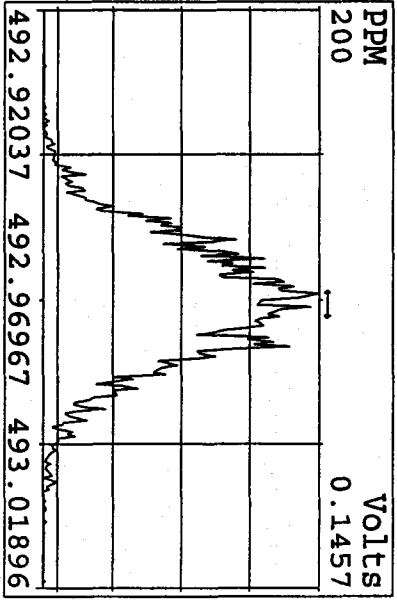
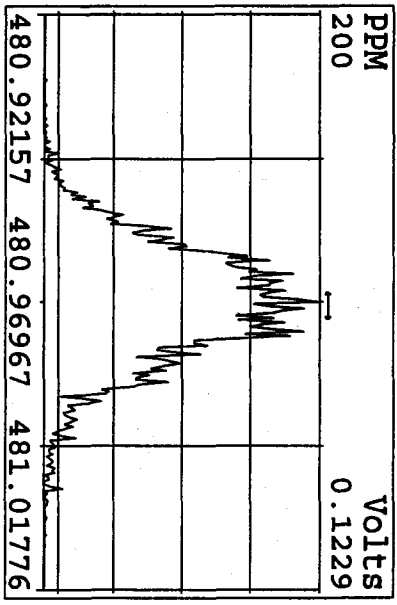
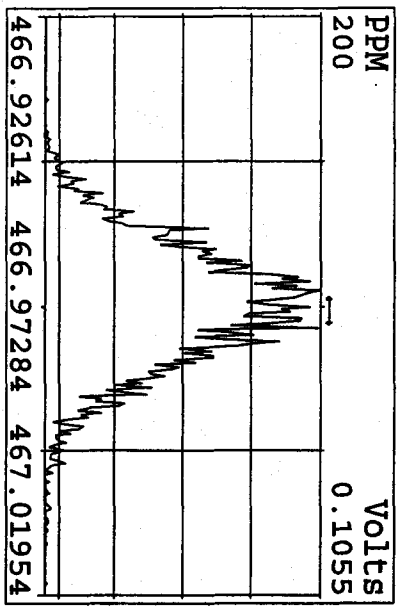
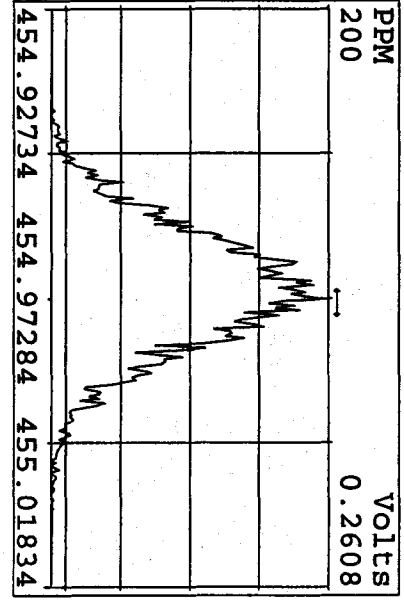
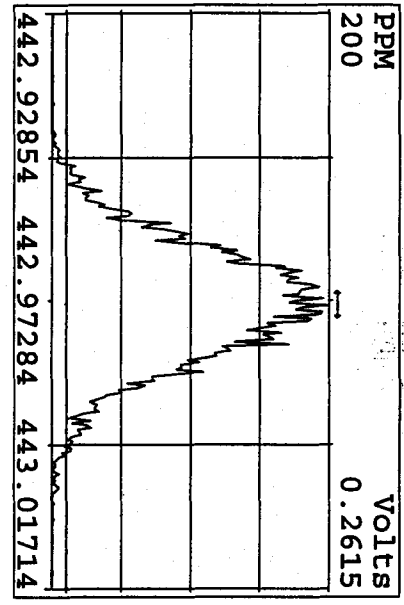
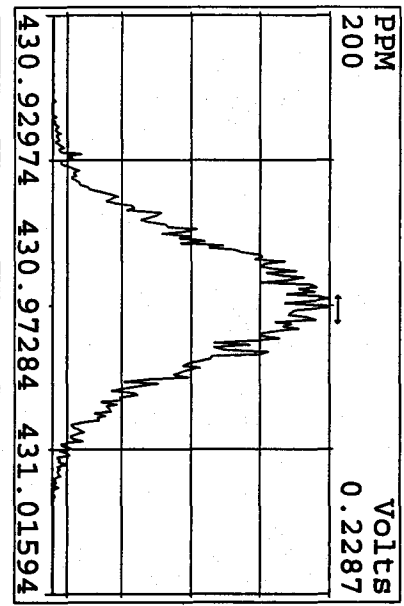
Peak Locate Examination: 23-DEC-2009: 08:44 File: 23DE094D5
 Experiment: DIOXIN Function: 3 Reference: PFK



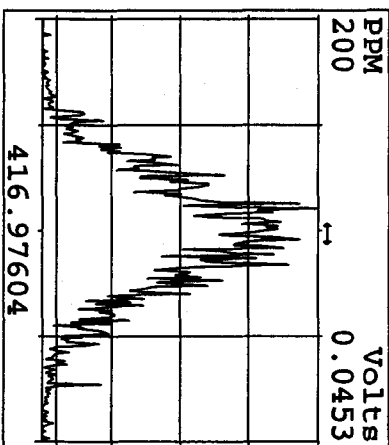
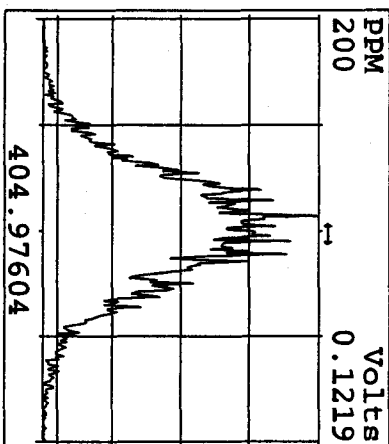
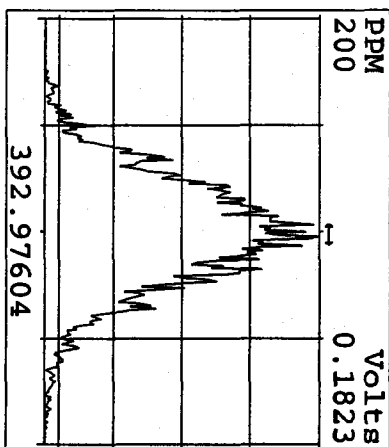
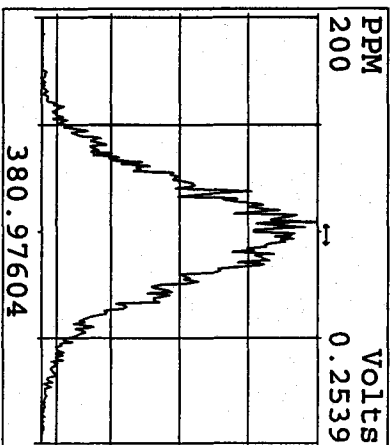
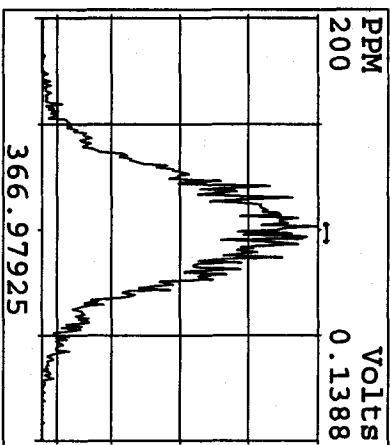
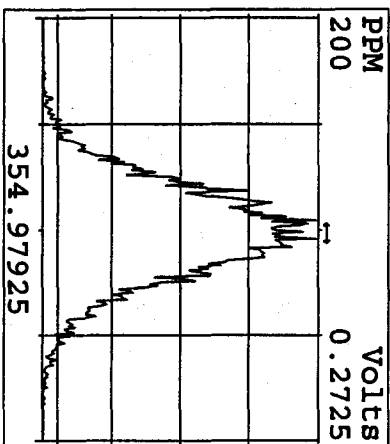
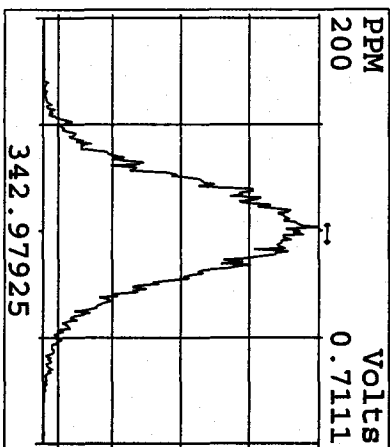
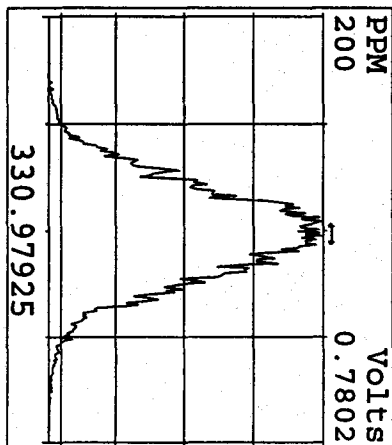
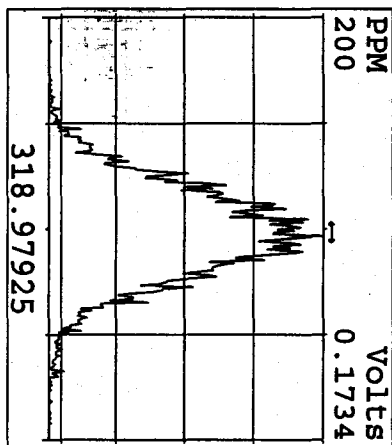
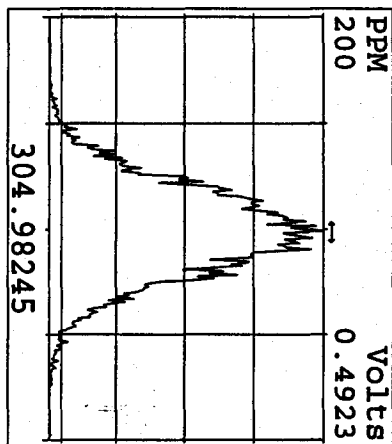
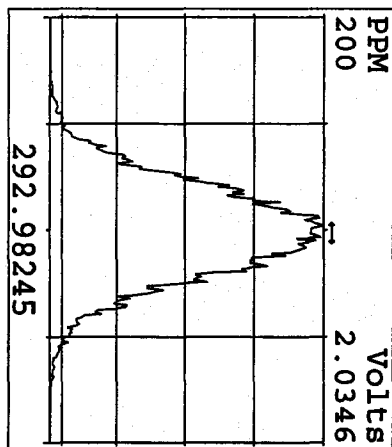
Peak Locate Examination: 23-DEC-2009: 08:44 File: 23DE094D5
 Experiment: DIOXIN Function: 4 Reference: PFK



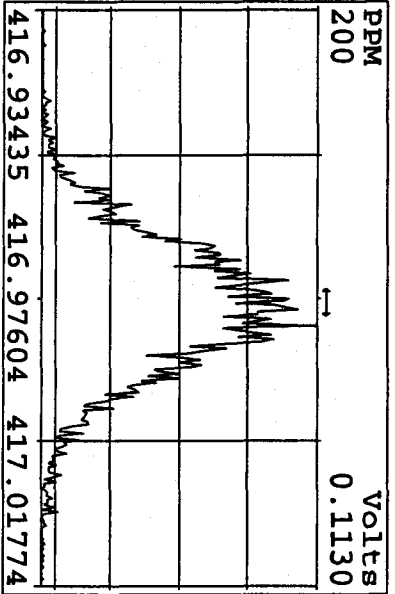
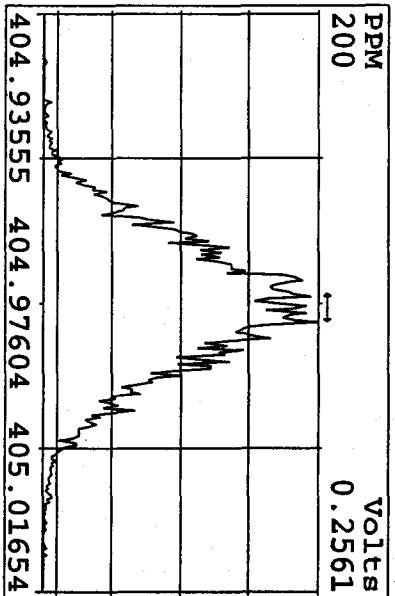
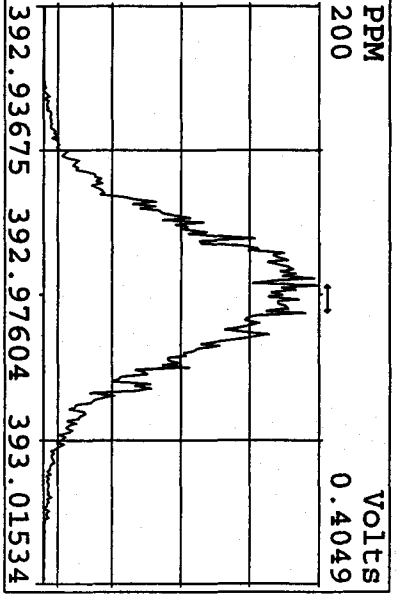
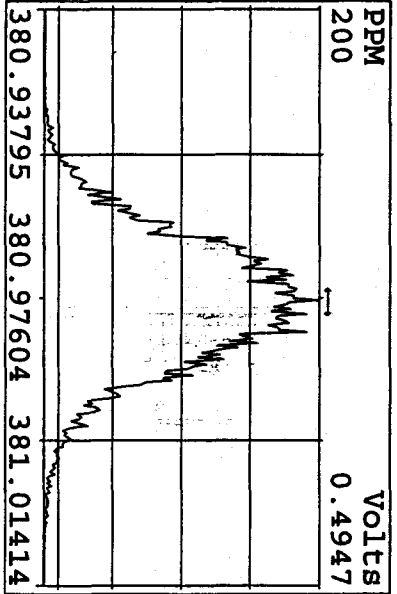
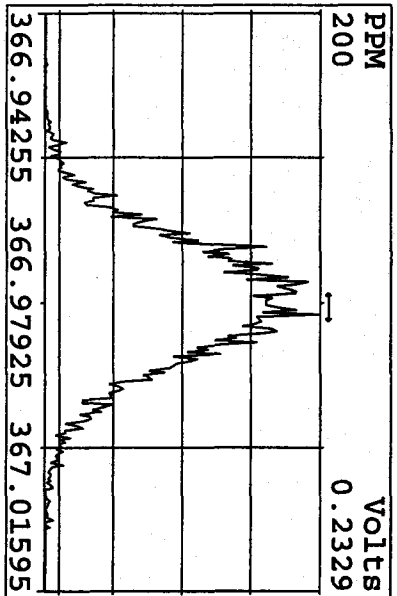
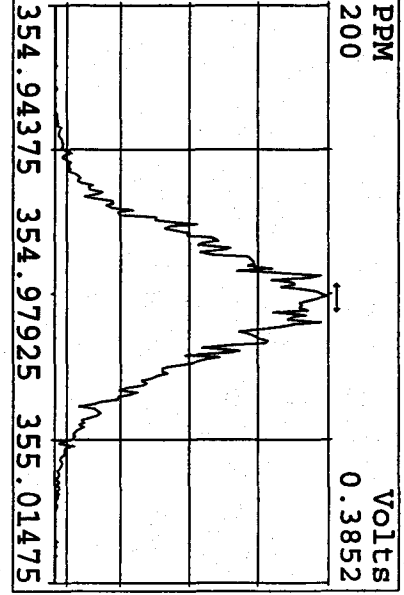
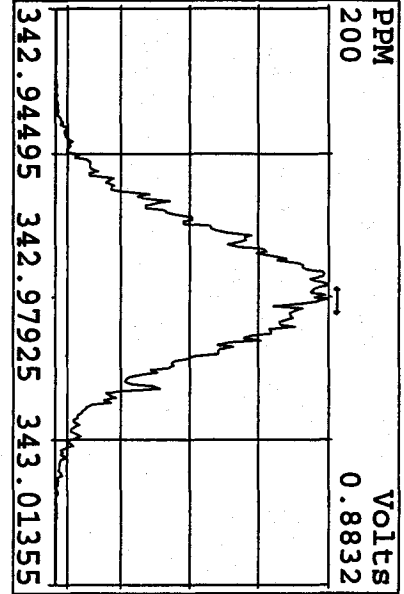
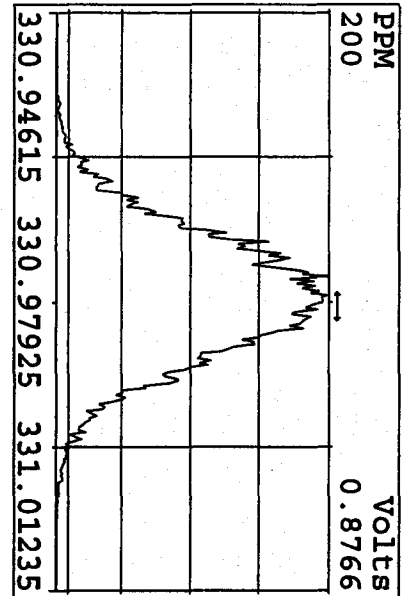
Peak Locate Examination: 23-DEC-2009: 08:45 File: 23DE094D5
 Experiment: DIOXIN Function: 5 Reference: PRK



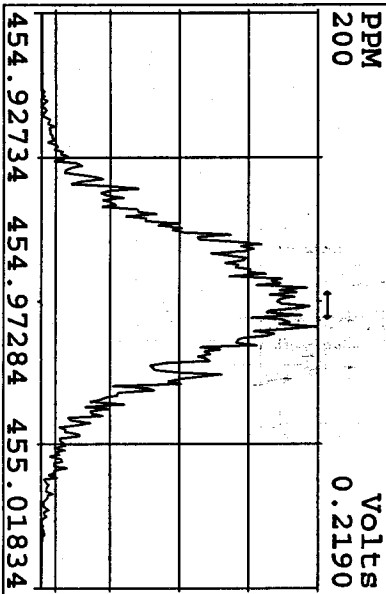
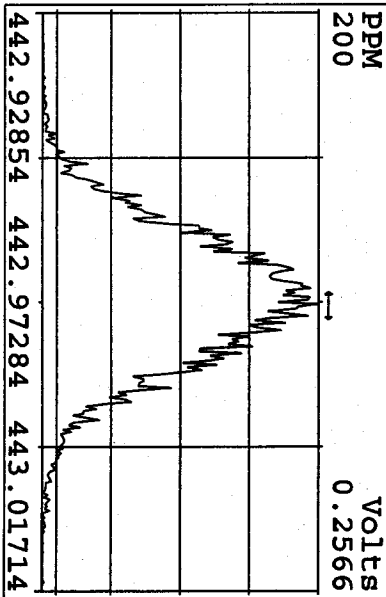
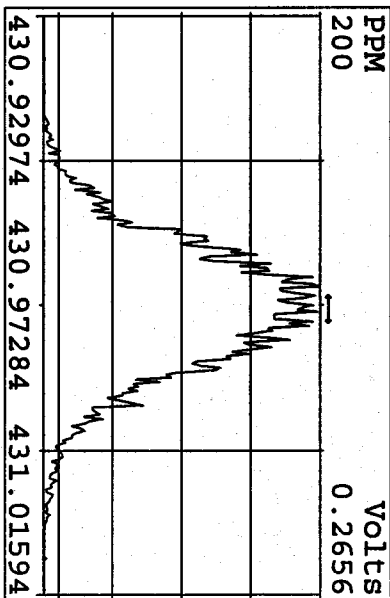
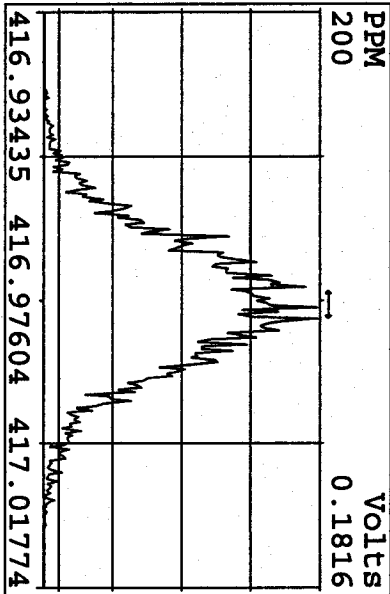
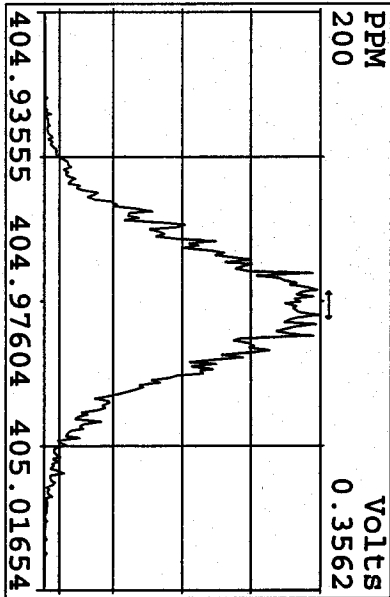
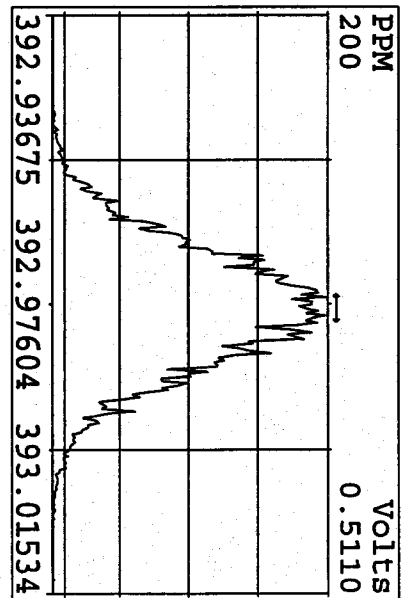
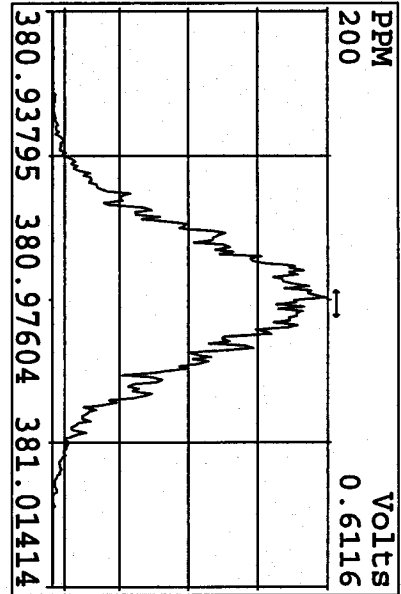
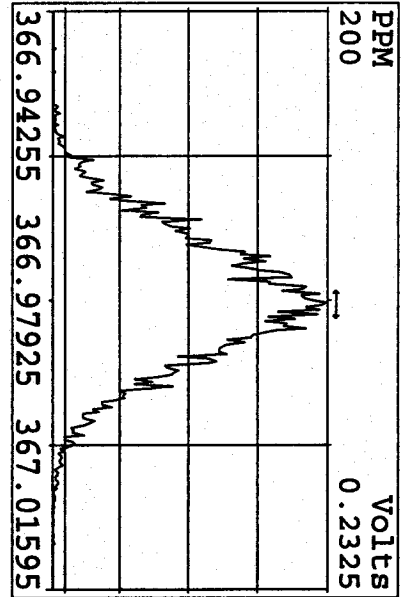
Peak Locate Examination: 23-DEC-2009: 20:04 File: RESCHK23DEF094D5
Experiment: DIOXIN Function: 1 Reference: PFK



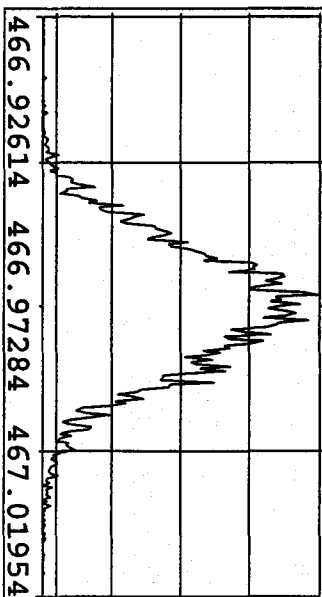
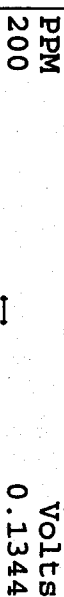
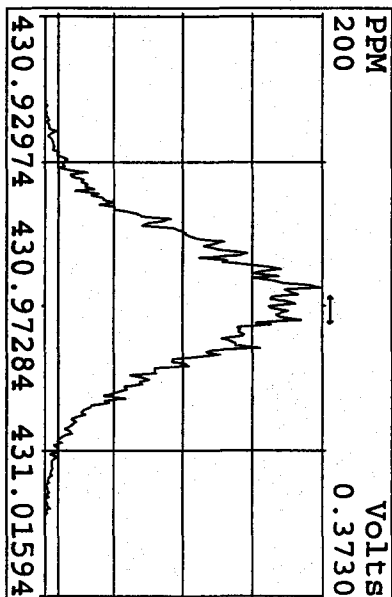
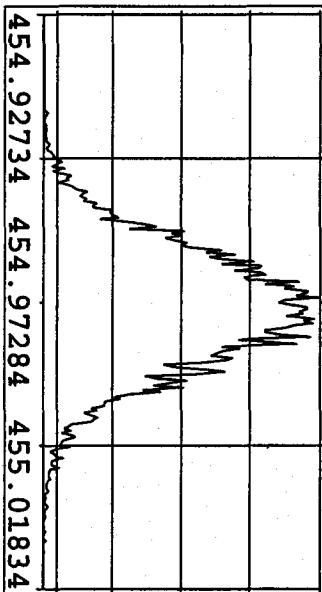
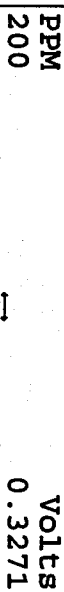
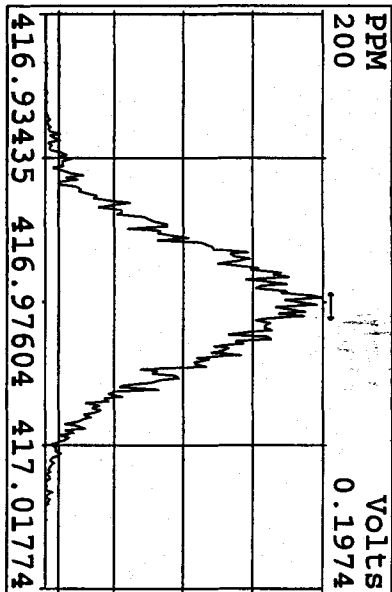
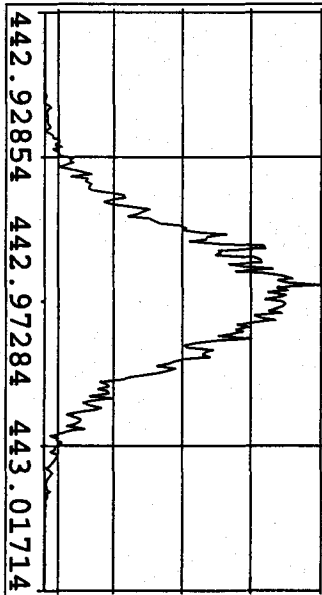
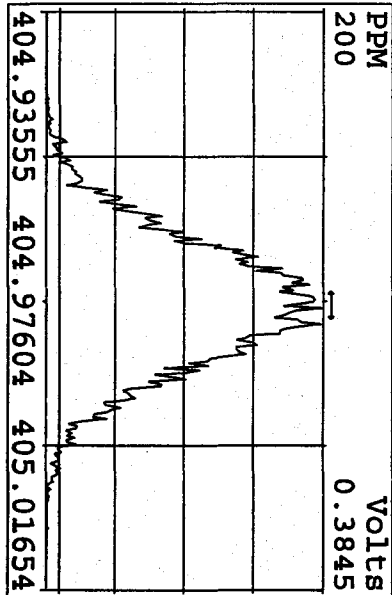
Peak Locate Examination: 23-DEC-2009: 20:04 File: RESCHK23DE094DS
 Experiment: DIOXIN Function: 2 Reference: PFK



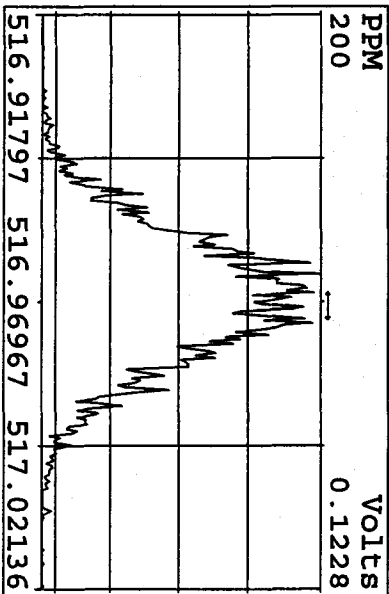
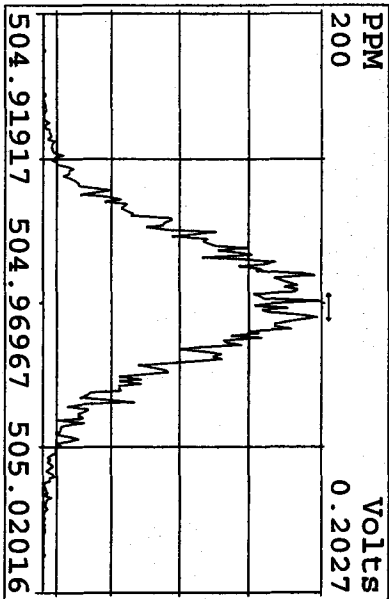
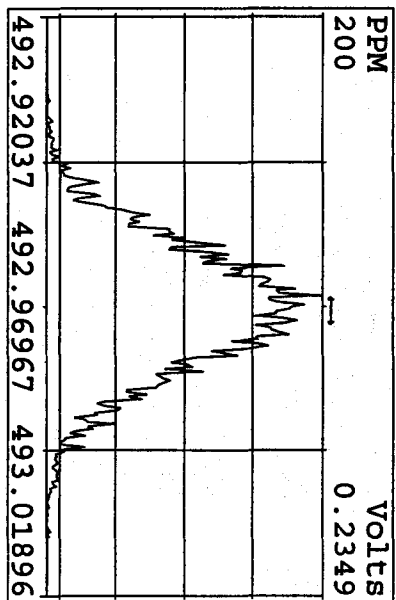
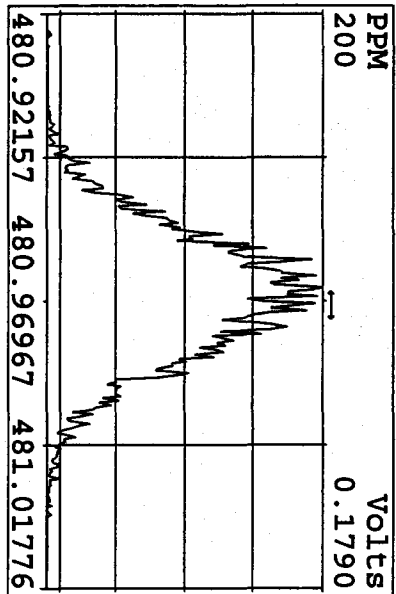
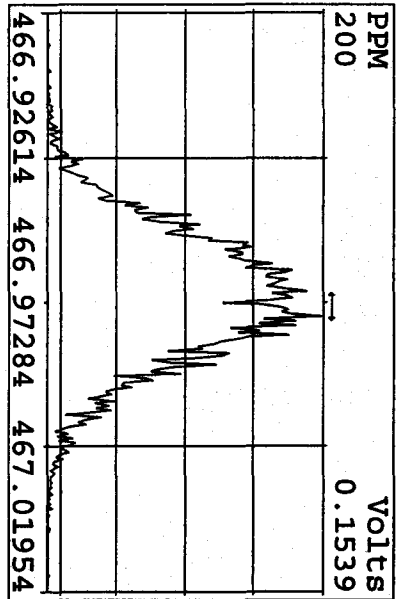
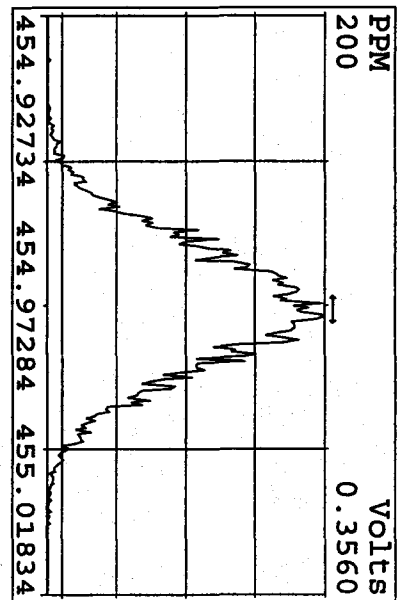
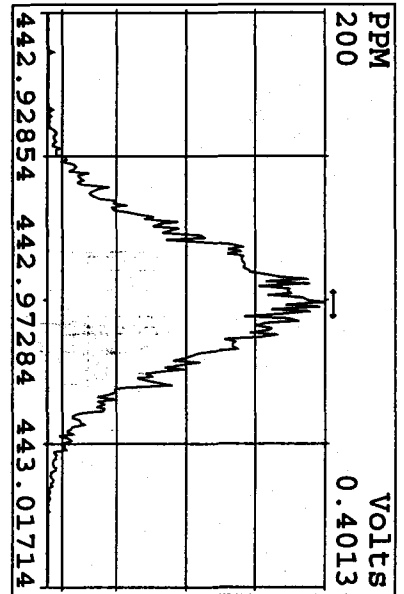
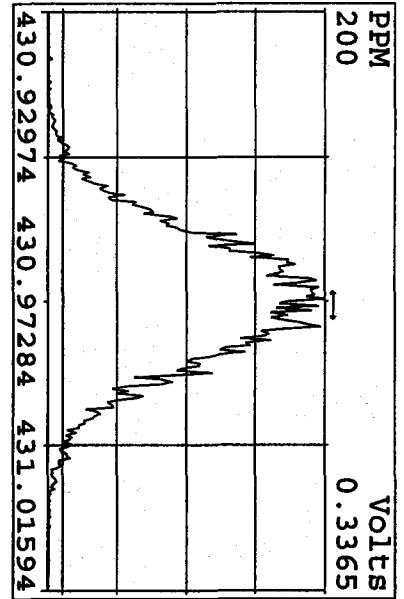
Peak Locate Examination: 23-DEC-2009: 20:05 File: RESCHK23DEF094D5
 Experiment: DIOXIN Function: 3 Reference: PFK



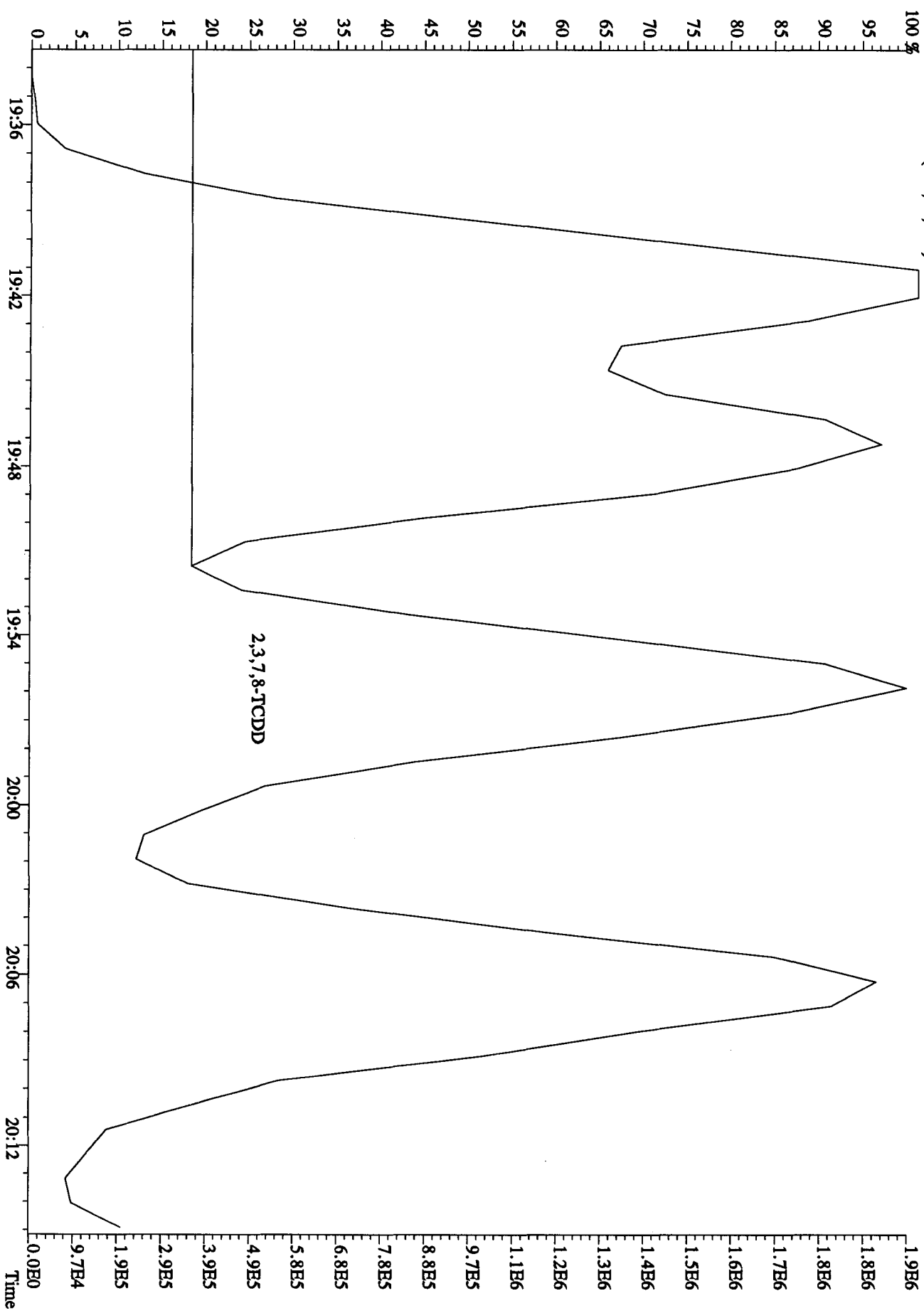
Peak Locate Examination: 23-DEC-2009: 20:06 File: RESCHK23DE094D5
 Experiment: DIOXIN Function: 4 Reference: PRK



Peak Locate Examination: 23-DEC-2009:20:07 File: RESCHK23DE094D5
 Experiment: DIOXIN Function: 5 Reference: PFK



File:23DDE094D5 #1-481 Acq:23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-Ultimate
Sample#2 Exp:DIOXIN
319.8965 S:2 BSUB(128,15,-3.0)



2,3,7,8-TCDD

Run: ICAL Analyte: 8290 Cal: 82900916094D5

ST0916 :CS-1 09DXN236 ST0916A :CS-2 09DXN237 ST0916B :CS-3 09DXN238
 ST0916C :CS-4 09DXN239 ST0916D :CS-5 09DXN240

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

13C-2,3,7,8-TCDF	1.459	0.063	4.33 %	1.42	1.50	1.38	1.47	1.54
2,3,7,8-TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28
Total TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28

13C-2,3,7,8-TCDD	0.923	0.042	4.50 %	0.89	0.93	0.88	0.93	0.98
2,3,7,8-TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27
Total TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27

37Cl-2,3,7,8-TCDD	2.515	0.152	6.03 %	2.35	2.48	2.47	2.51	2.77
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13C-1,2,3,7,8-PeCDF	1.267	0.085	6.70 %	1.19	1.28	1.18	1.29	1.39
1,2,3,7,8-PeCDF	1.302	0.025	1.90 %	1.26	1.30	1.31	1.32	1.32
2,3,4,7,8-PeCDF	1.250	0.034	2.69 %	1.20	1.23	1.26	1.28	1.28
Total F2 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30
Total F1 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30

13C-1,2,3,7,8-PeCDD	0.772	0.056	7.24 %	0.72	0.78	0.72	0.79	0.85
1,2,3,7,8-PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26
Total PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26

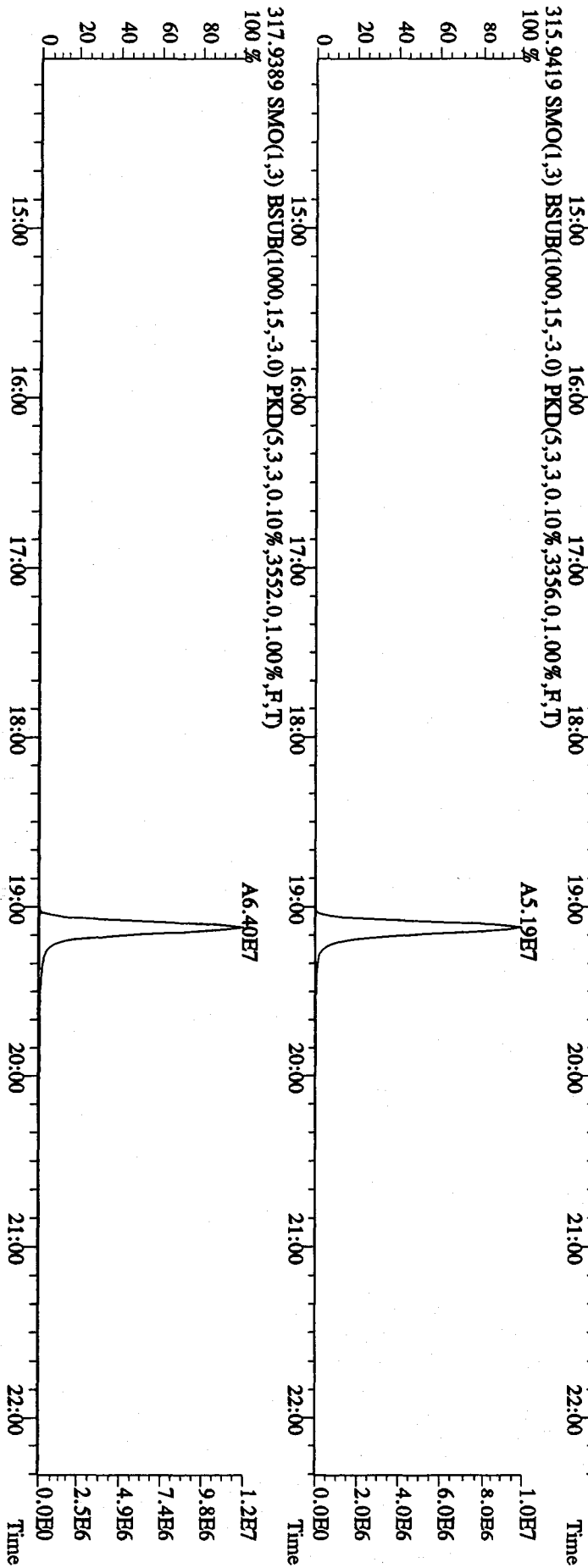
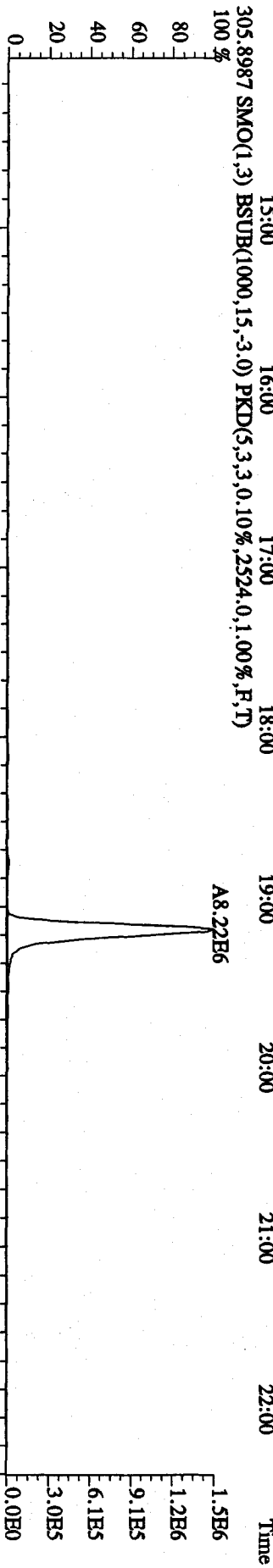
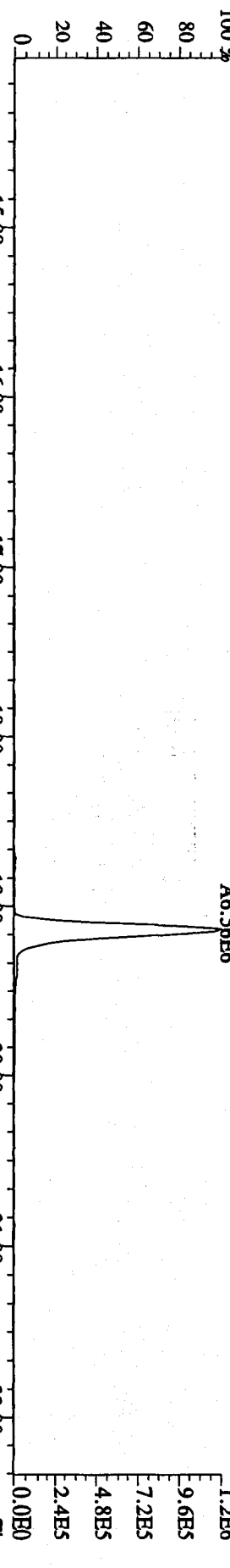
13C-1,2,3,7,8-HxCDD	-	-	- %	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	1.187	0.035	2.92 %	1.16	1.23	1.21	1.14	1.20
1,2,3,4,7,8-HxCDF	1.307	0.031	2.37 %	1.27	1.32	1.27	1.33	1.33
1,2,3,6,7,8-HxCDF	1.412	0.039	2.75 %	1.46	1.39	1.37	1.44	1.40
2,3,4,6,7,8-HxCDF	1.334	0.033	2.51 %	1.36	1.33	1.28	1.36	1.33
1,2,3,7,8,9-HxCDF	1.195	0.052	4.39 %	1.17	1.18	1.13	1.27	1.23
Total HxCDF	1.312	0.032	2.40 %	1.32	1.31	1.26	1.35	1.32

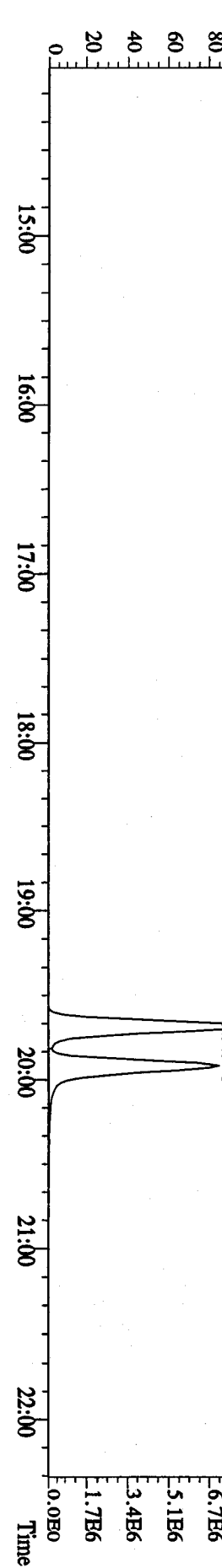
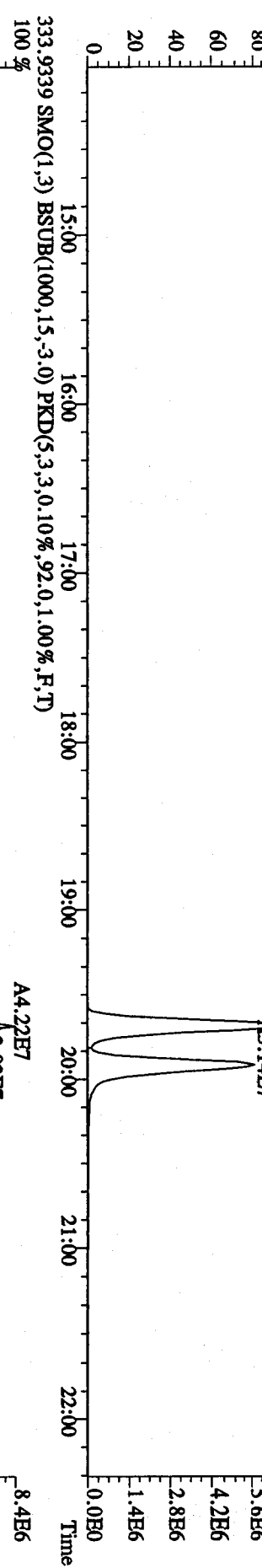
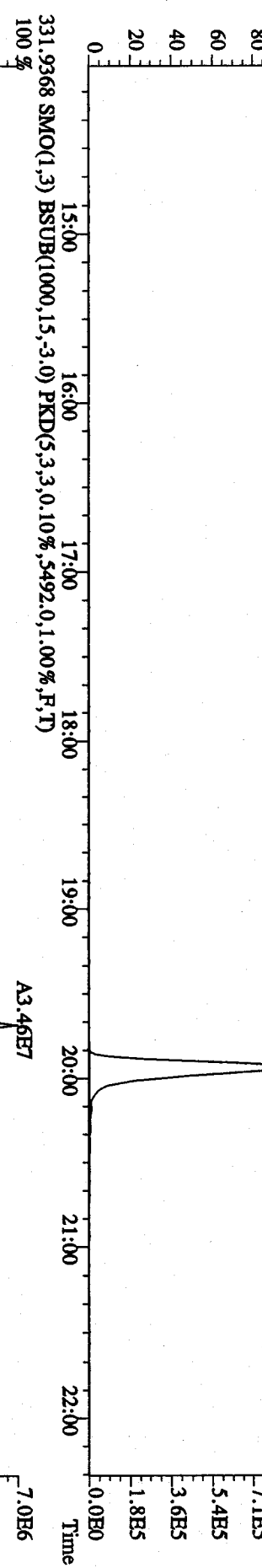
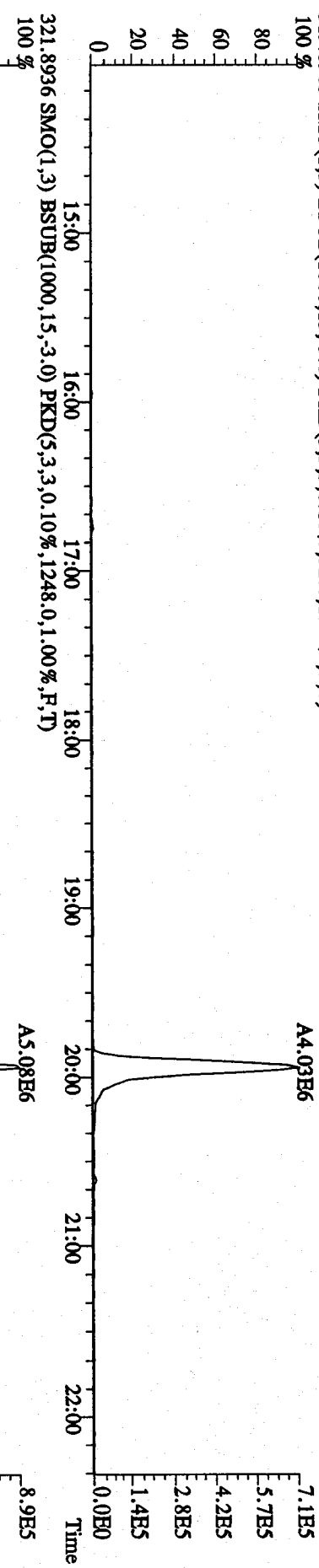
13C-1,2,3,6,7,8-HxCDD	0.747	0.046	6.16 %	0.77	0.78	0.69	0.71	0.79
1,2,3,4,7,8-HxCDD	1.242	0.047	3.75 %	1.19	1.21	1.31	1.26	1.23

1,2,3,6,7,8-HxCDD	1.479	0.113	7.64 %	1.34	1.48	1.59	1.60	1.39
1,2,3,7,8,9-HxCDD	1.473	0.089	6.01 %	1.41	1.41	1.54	1.60	1.40
Total HxCDD	1.398	0.078	5.60 %	1.32	1.37	1.48	1.48	1.34
13C-1,2,3,4,6,7,8-HpCDF	0.913	0.028	3.08 %	0.91	0.93	0.88	0.90	0.95
1,2,3,4,6,7,8-HpCDF	1.595	0.021	1.32 %	1.56	1.59	1.61	1.62	1.59
1,2,3,4,7,8,9-HpCDF	1.331	0.063	4.73 %	1.25	1.29	1.36	1.36	1.40
Total HpCDF	1.463	0.040	2.72 %	1.41	1.44	1.49	1.49	1.50
13C-1,2,3,4,6,7,8-HpCDD	0.714	0.028	3.95 %	0.70	0.73	0.69	0.69	0.76
1,2,3,4,6,7,8-HpCDD	1.307	0.033	2.51 %	1.27	1.27	1.32	1.34	1.33
Total HpCDD	1.307	0.033	2.51 %	1.27	1.27	1.32	1.34	1.33
13C-OCDD	0.606	0.053	8.81 %	0.56	0.59	0.58	0.61	0.70
OCDF	1.509	0.127	8.40 %	1.35	1.42	1.51	1.62	1.65
OCDD	1.194	0.018	1.52 %	1.16	1.20	1.20	1.21	1.20

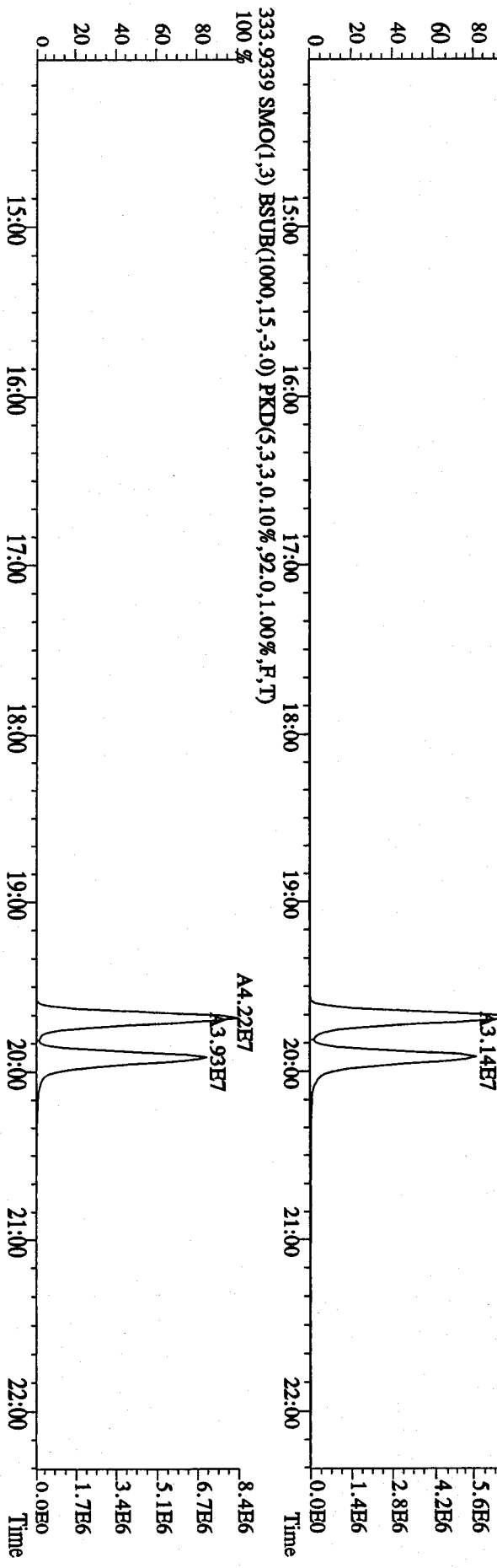
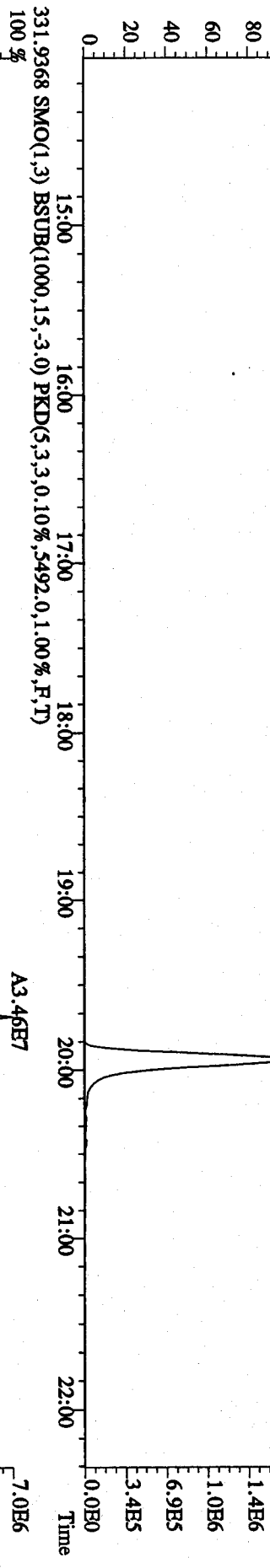
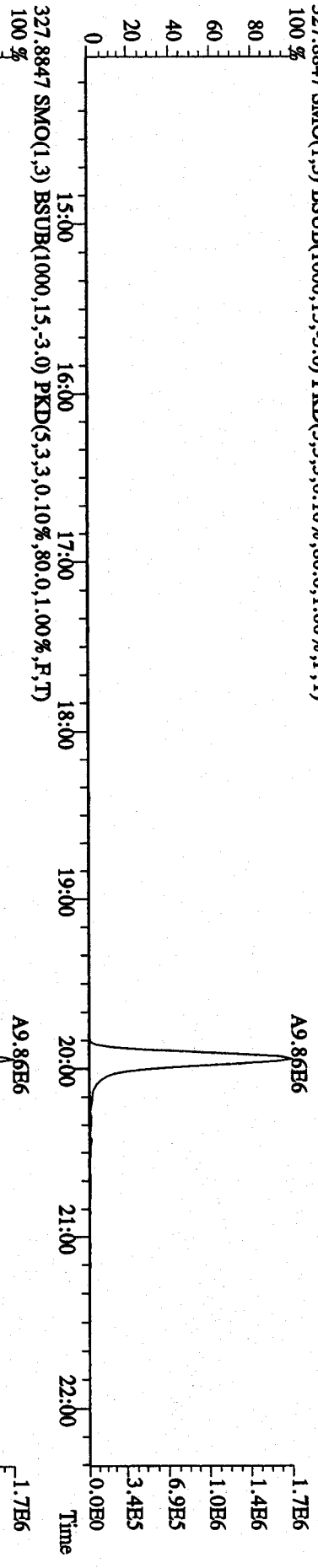
Sample#1 Text: ST1223 : CS3 09DXN384 Exp: DIOXIN



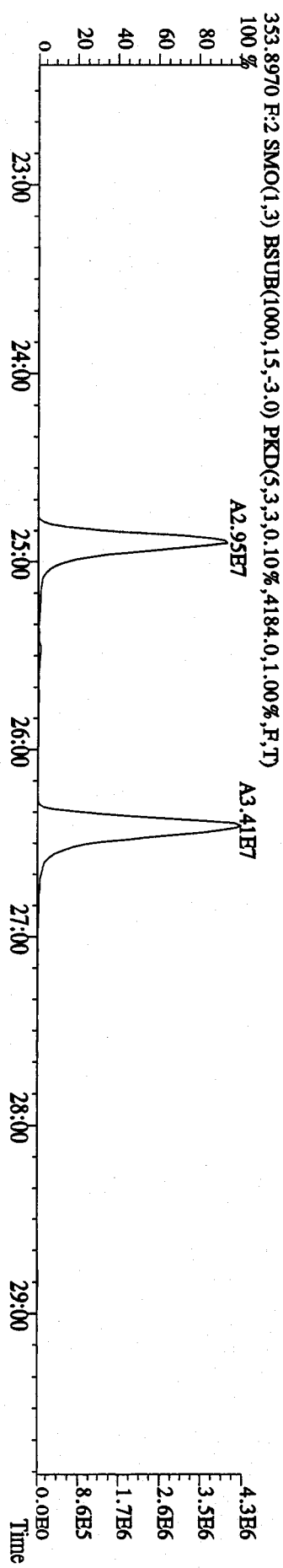
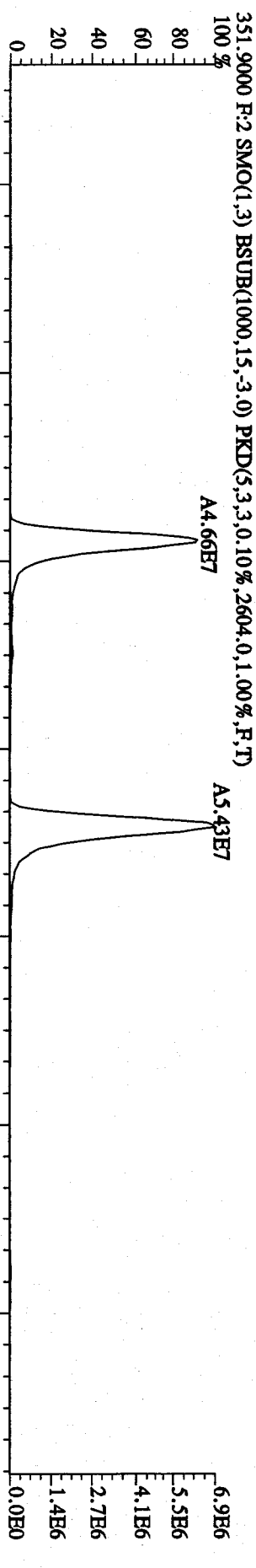
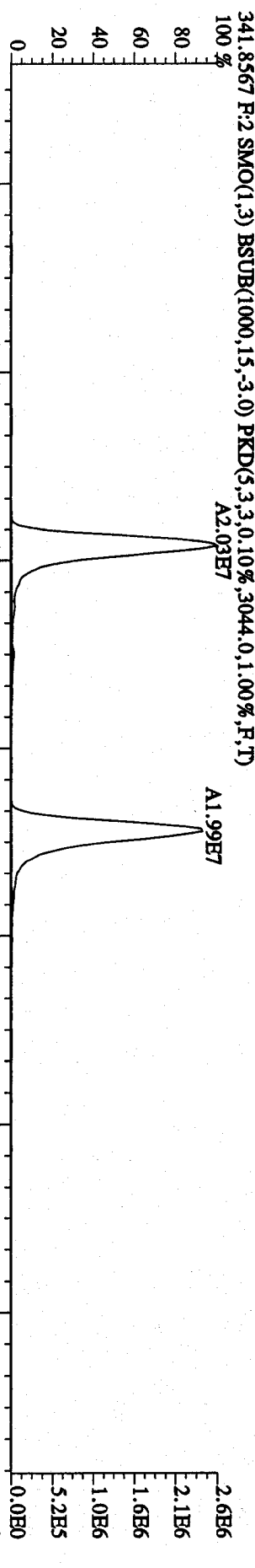
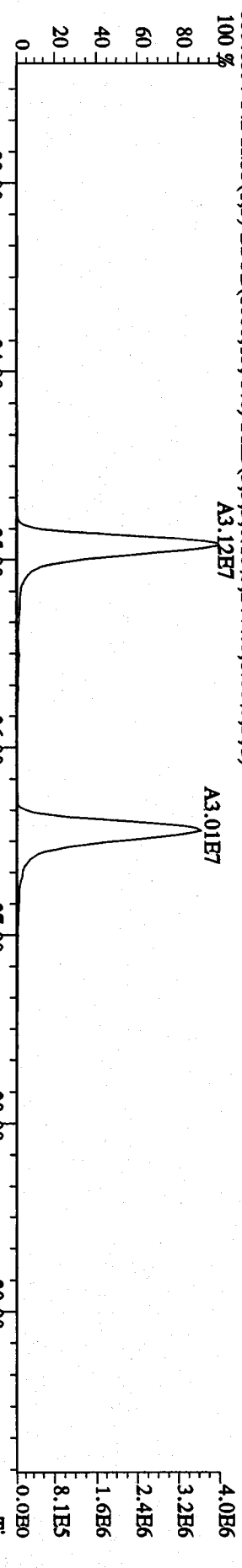
File: 23DE094D5 #1-578 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text: ST1223 : CS3 09DXN384 Exp: DIOXIN
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,52.0,1.00%,F,T)



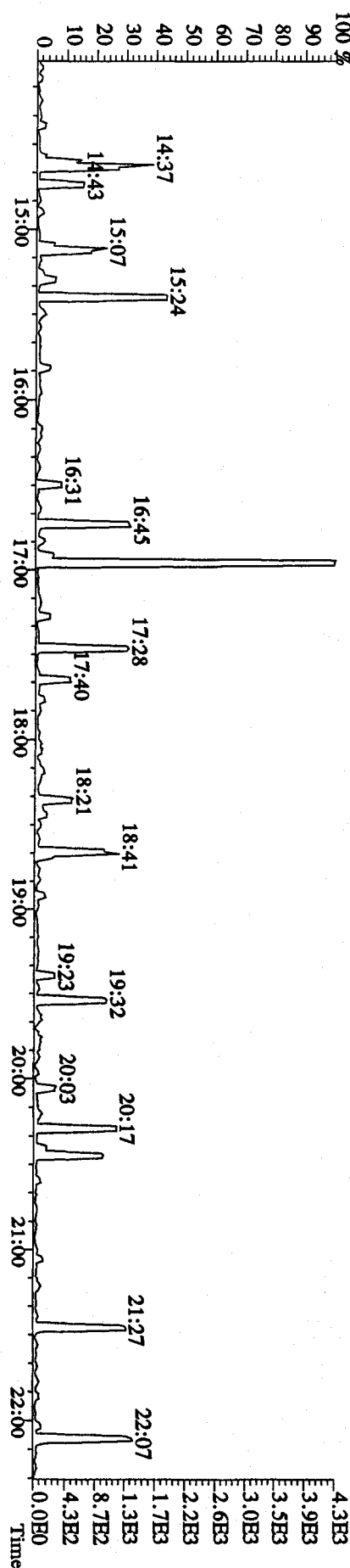
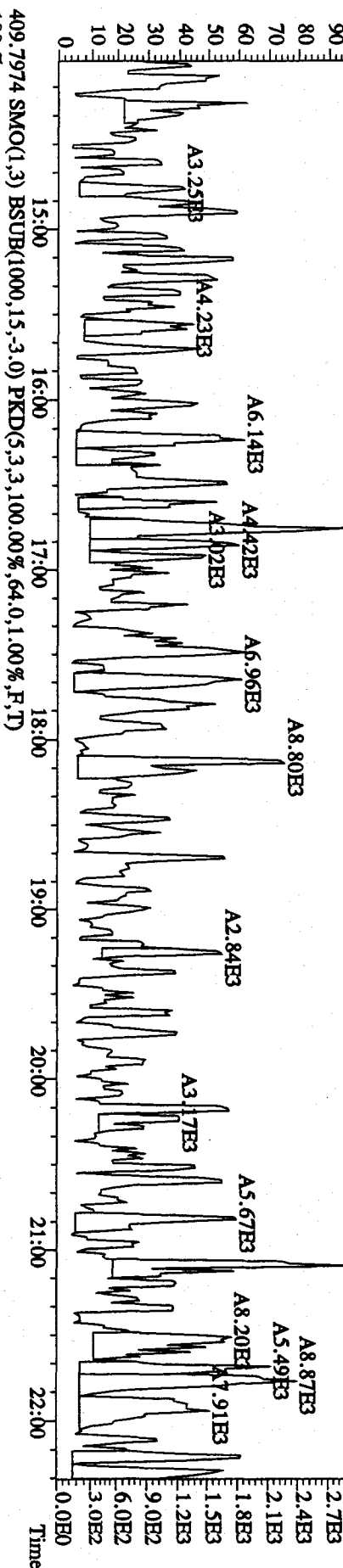
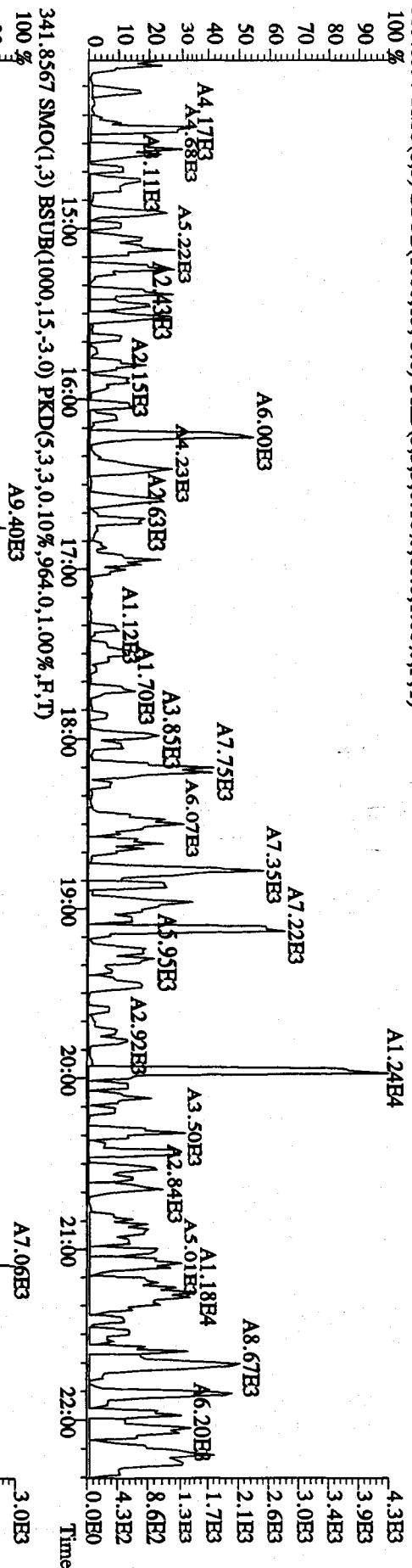
File: 23DBE094D5 #1-578 Acq: 23-DEC-2009 08:45:43 GC HI+ Voltage SIR Autospec-Ultimat
 Sample#1 Text: ST1223 : CS3 09DXN384 Exp: DIOXIN
 327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.00%,F,T) 100%
 333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T) 100%



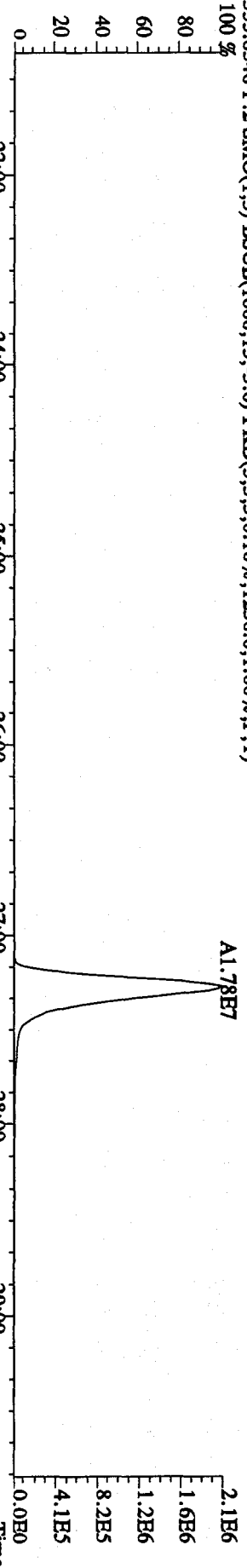
File: 23DE094D5 #1-597 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text: ST1223 :CS3 09DXN384 Exp: DIOXIN
 339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2444.0,1.00%,F,T) A3.12E7
 100%



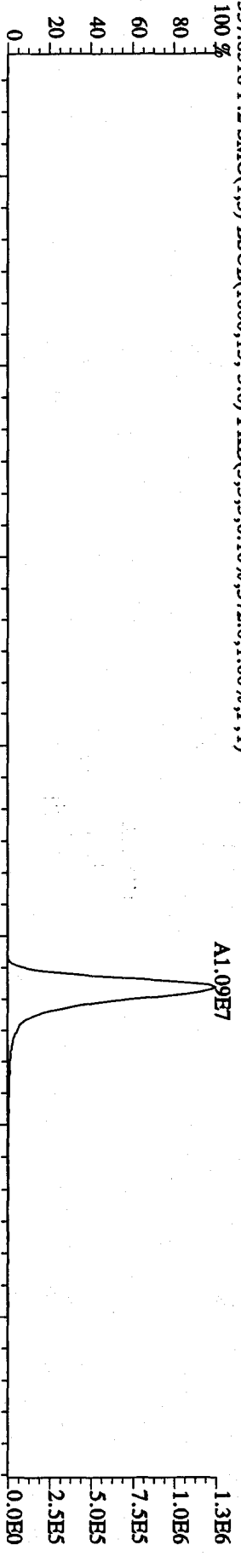
File: 23DE094D5 #1-578 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text: ST1223 :CS3 09DXN384 Exp: DIOXIN
 339.8597 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,64.0,1.00%,F,T)



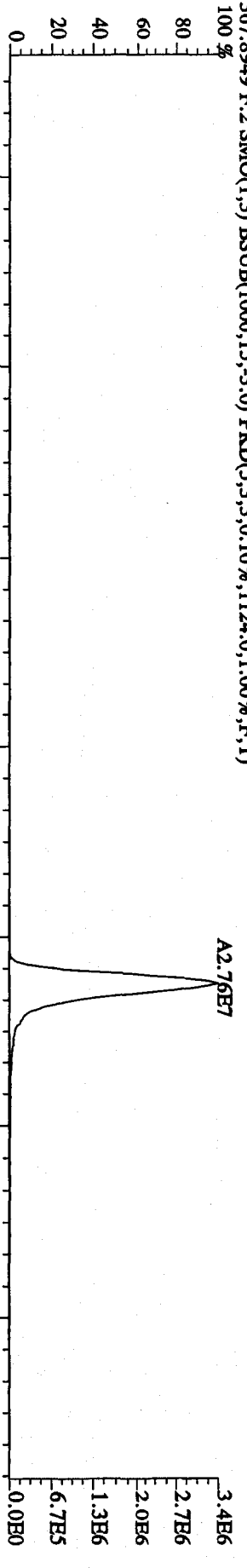
File:23DE094D5 #1-597 Acq:23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:ST1223 :CS3 09DXN384 Exp:DIOXIN
 355.8546 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1236.0,1.00%,F,T)



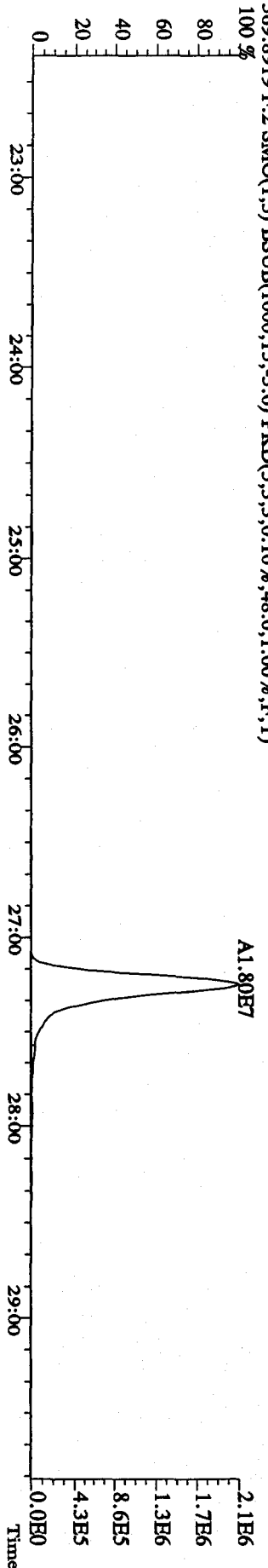
357.8516 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,372.0,1.00%,F,T)



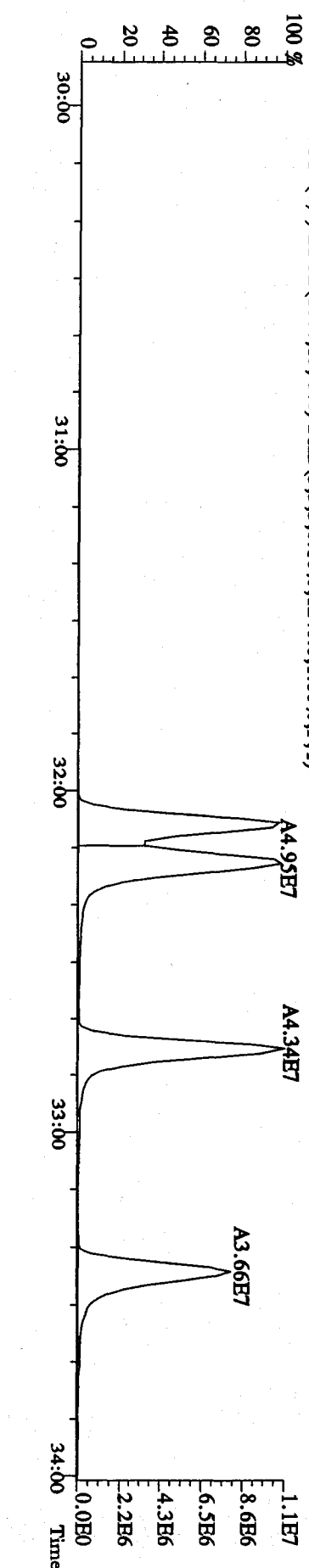
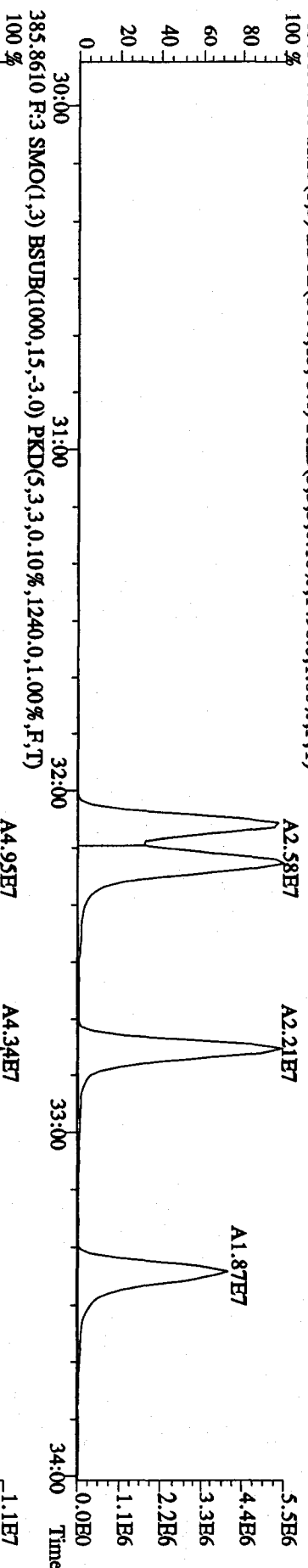
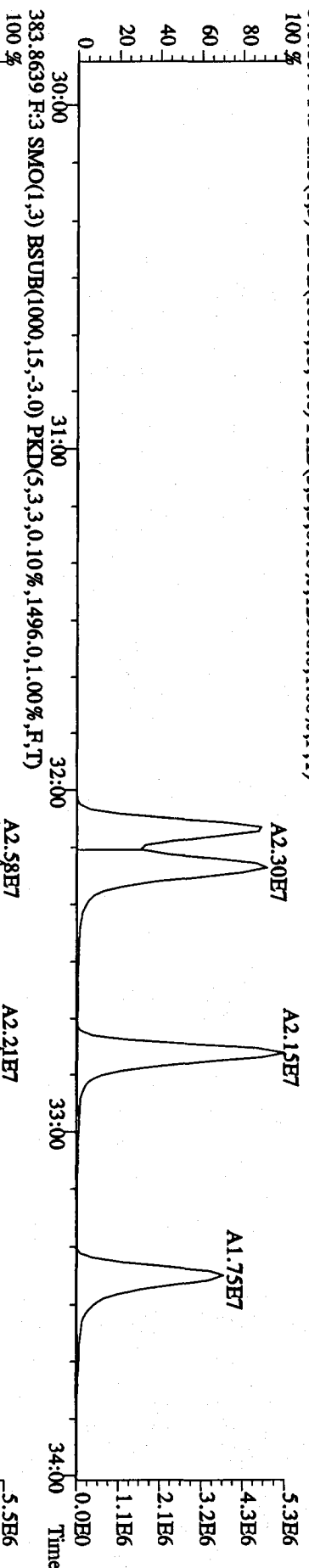
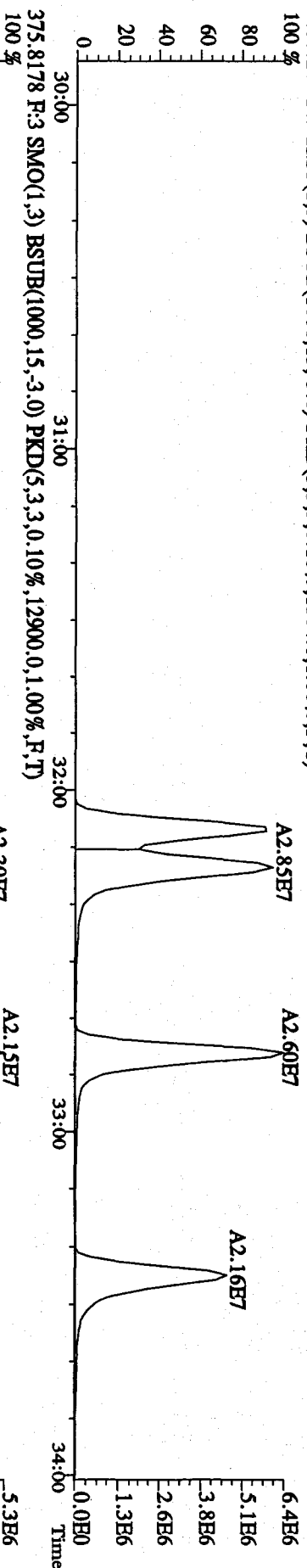
367.8949 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1124.0,1.00%,F,T)



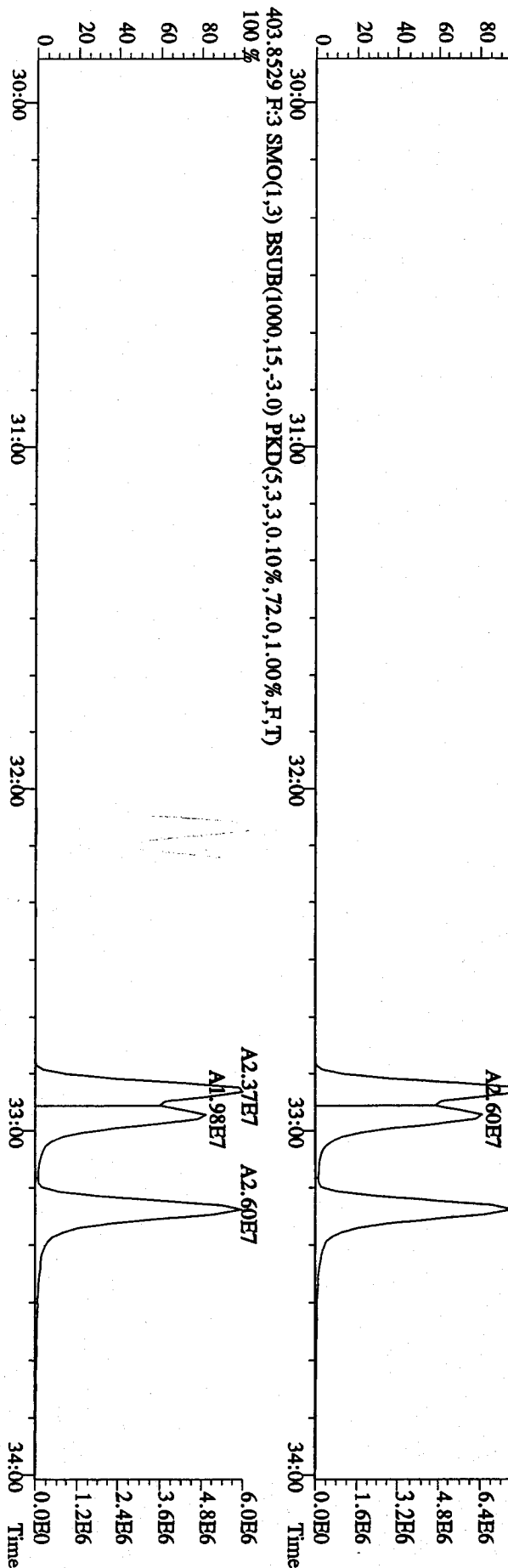
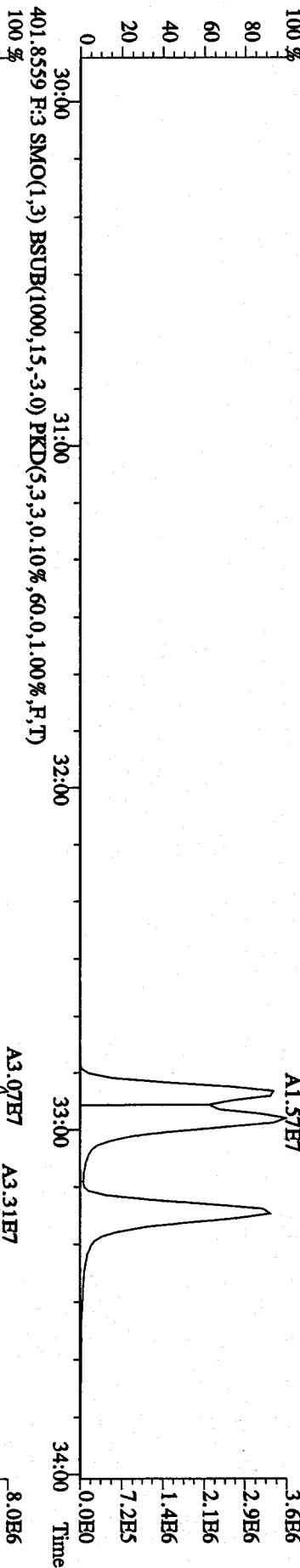
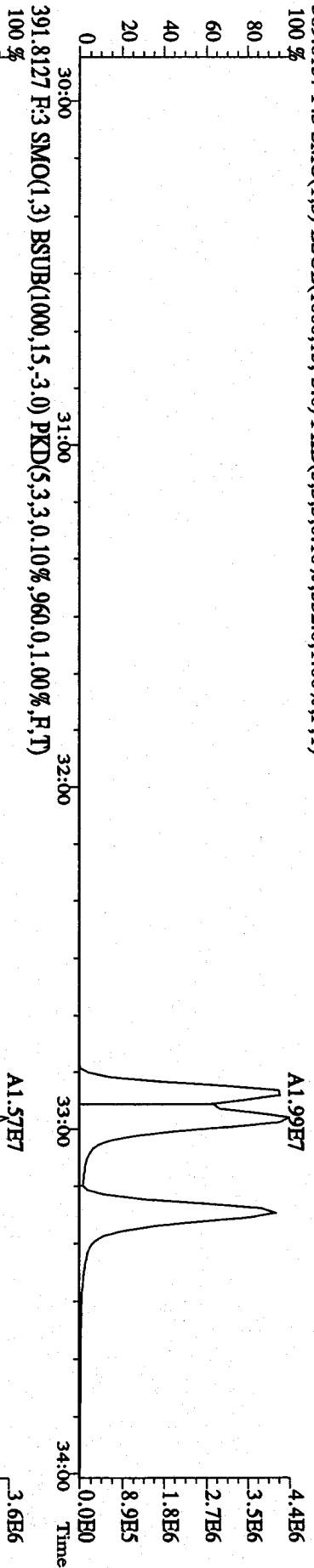
369.8919 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48.0,1.00%,F,T)



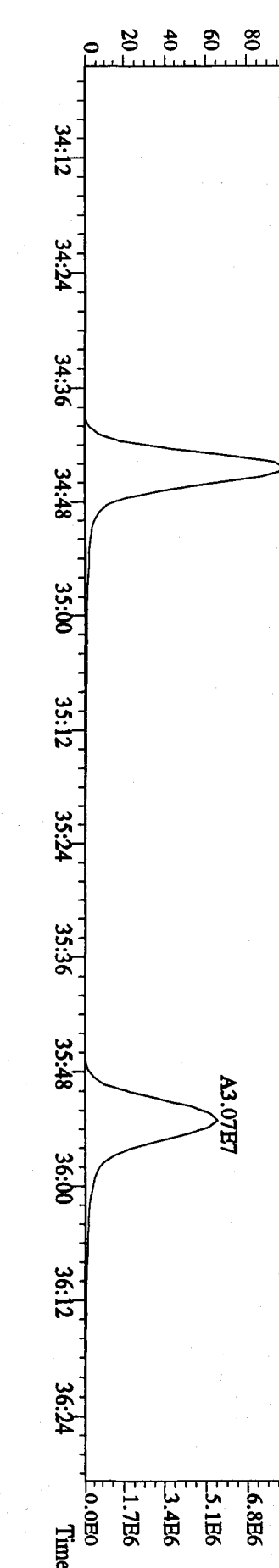
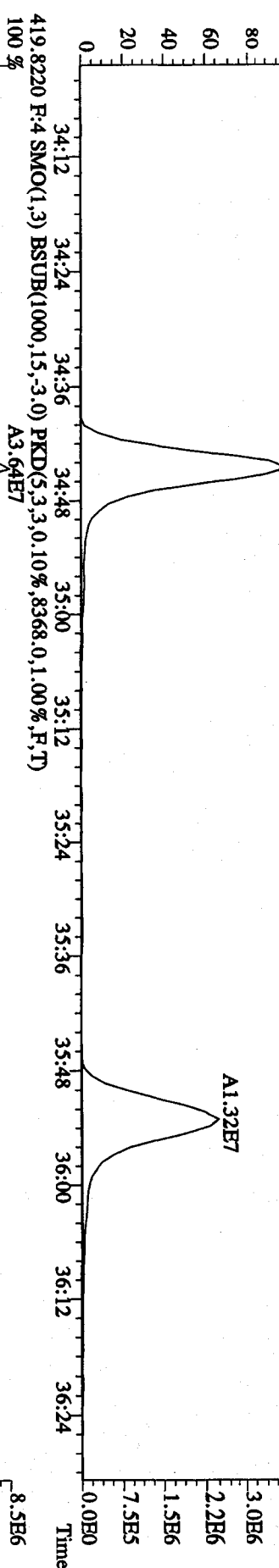
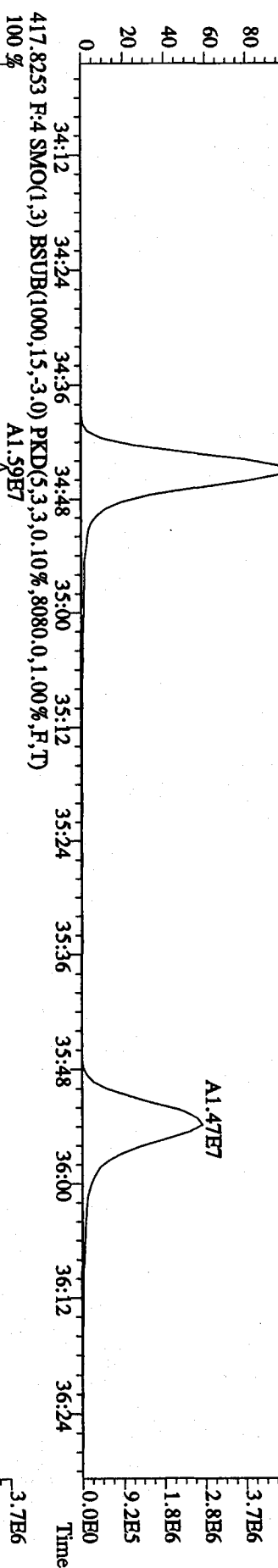
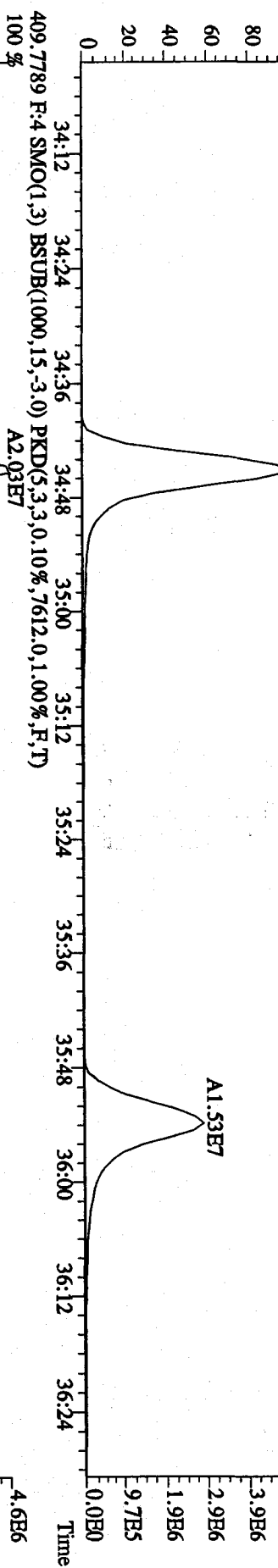
File: 23DDE094D5 #1-314 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-UltimaB
 Sample #1 Text: ST1223 : CSS 09DXN384 Exp: DIOXIN
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1504,0,1.00%,F,T)



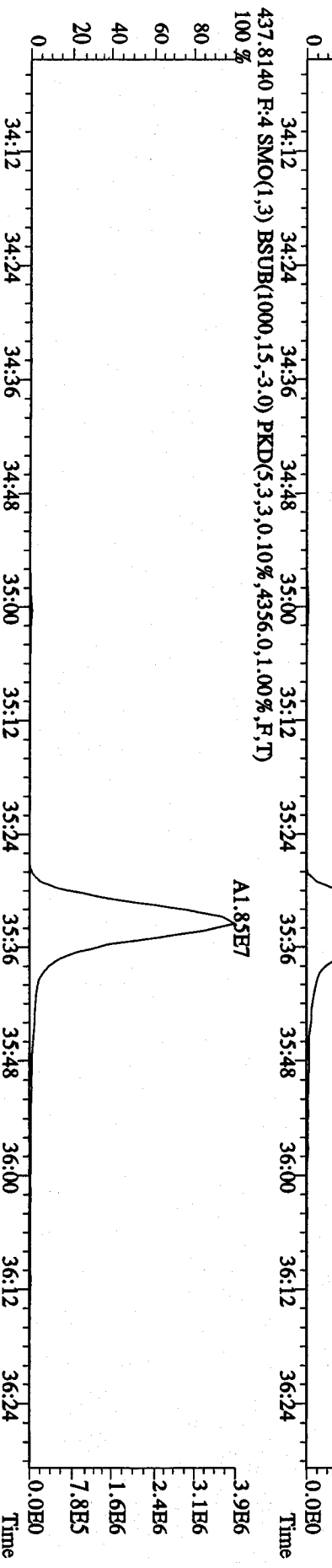
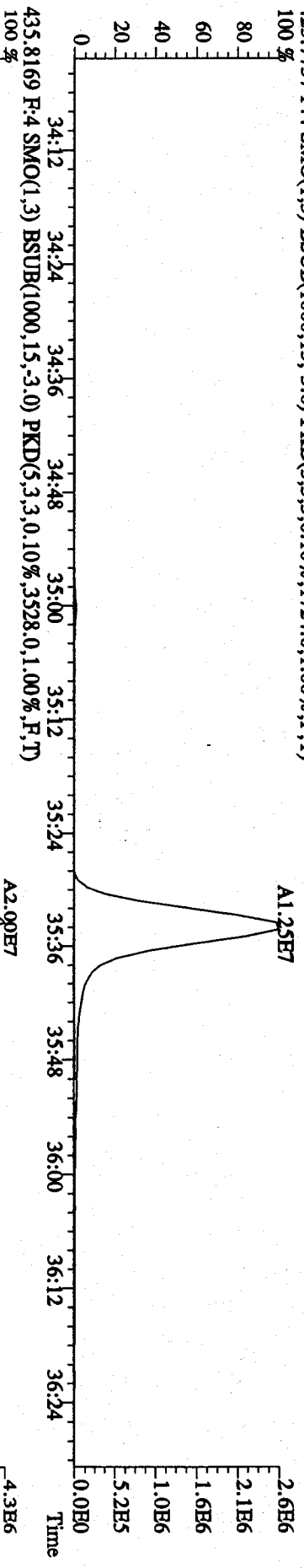
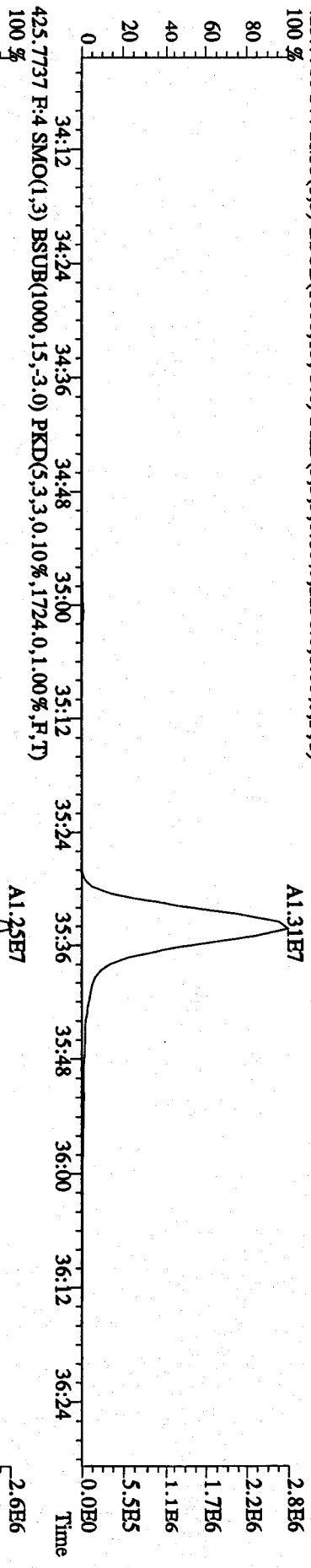
File: 22DDE094D5 #1-314 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text: ST1223 :CS3 09DXN384 Exp: DIOXIN
 389.8157 F: 3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,532.0,1.00%,F,T) 100%



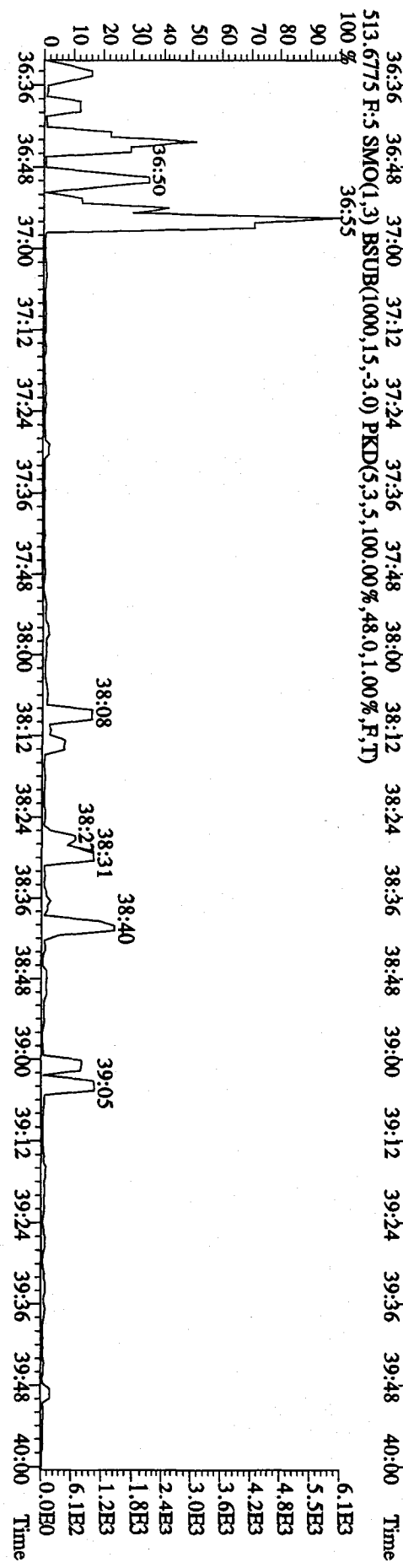
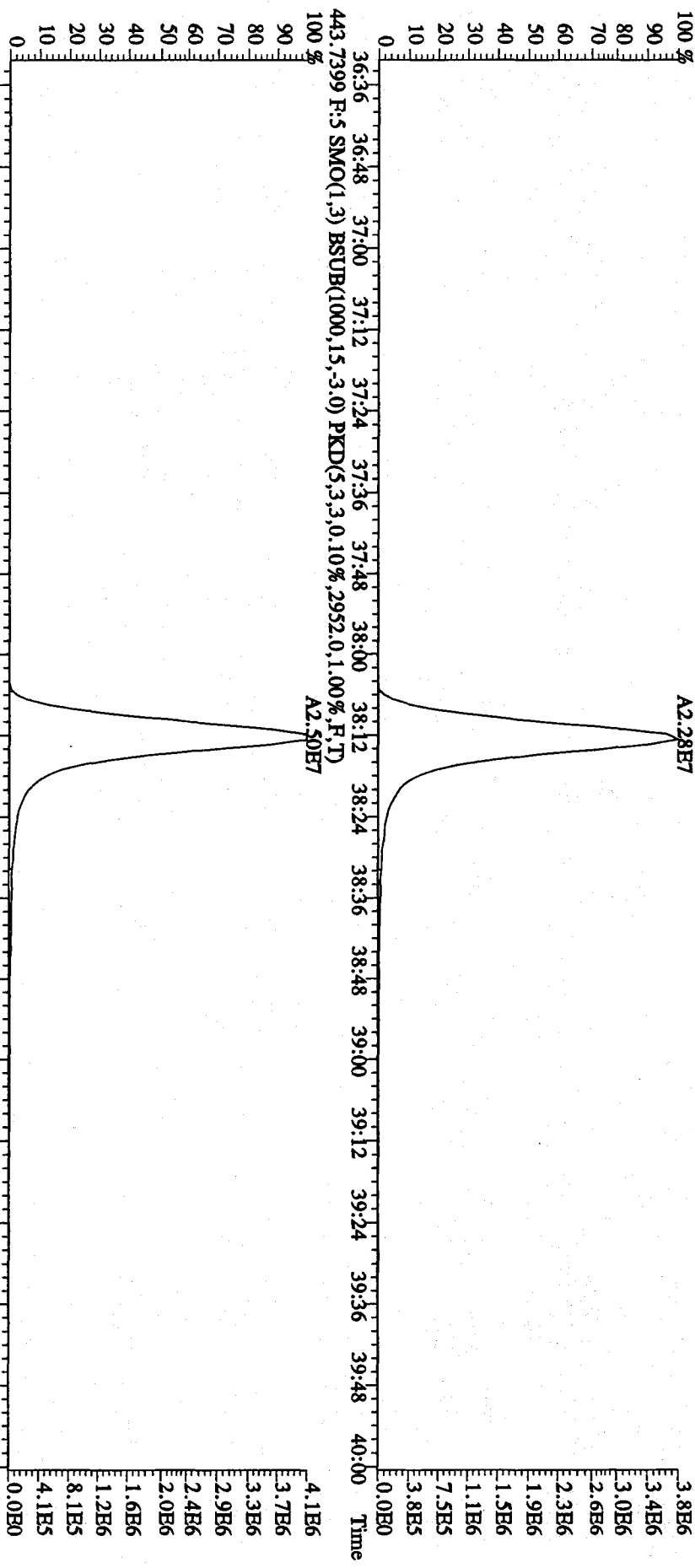
File: 23DE094D5 #1-198 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-Ultimate
 Sample #1 Text: ST1223 : CS3 09DXN384 Exp: DIOXIN
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5184,0,1,00%,F,T)
 100%



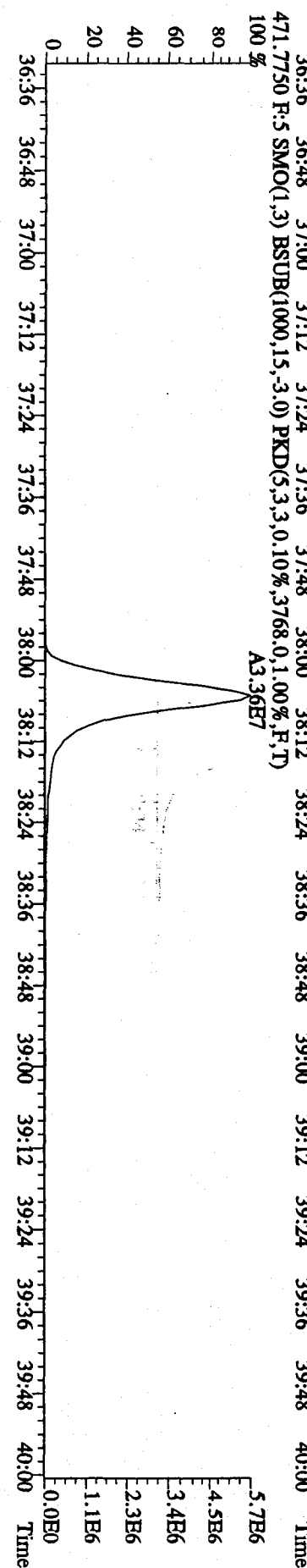
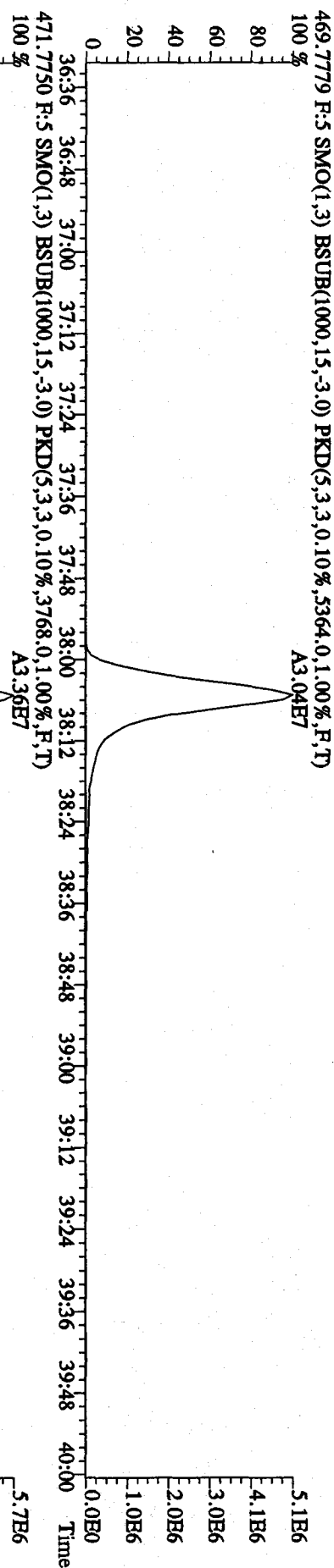
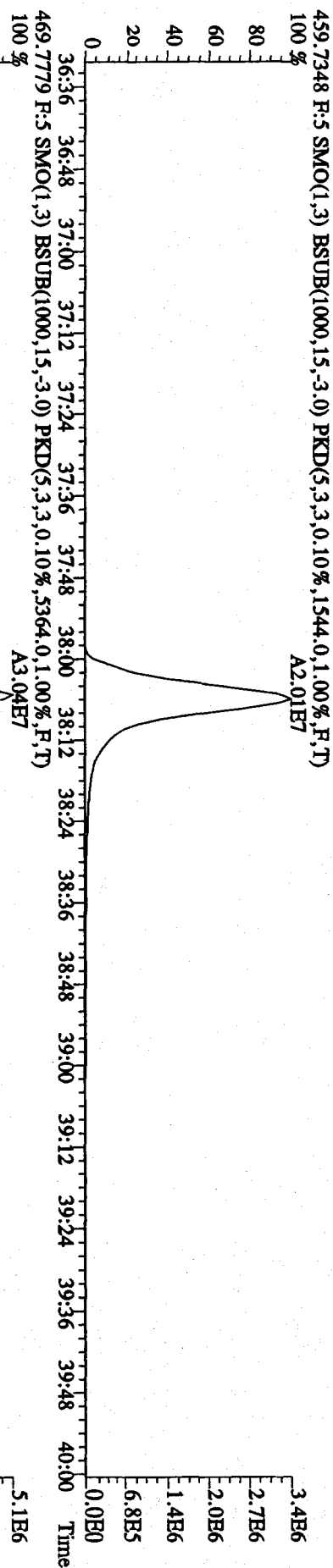
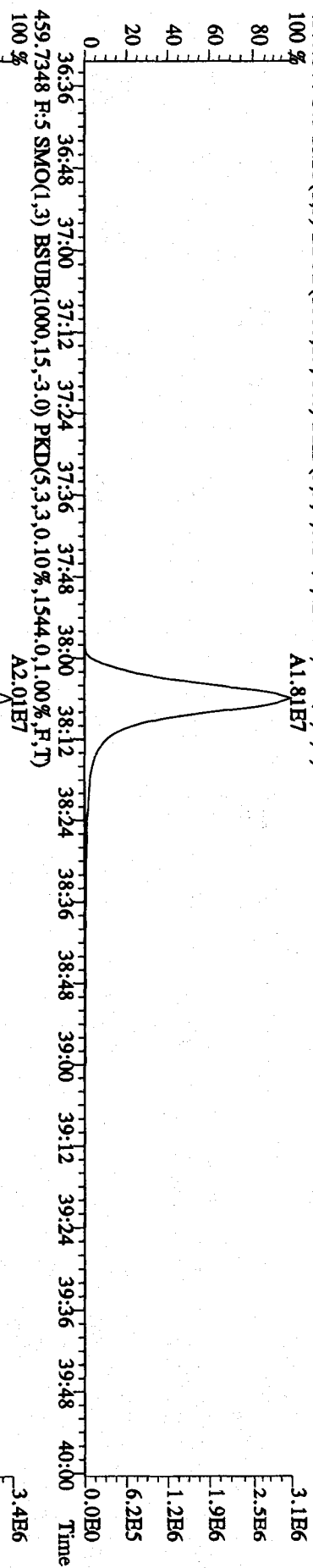
File: 23DBE094D5 #1-198 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text: ST1223 : CSS 09DXN384 Exp: DIOXIN
 423.7737 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2236,0.1,0.00%,F,T)
 100%



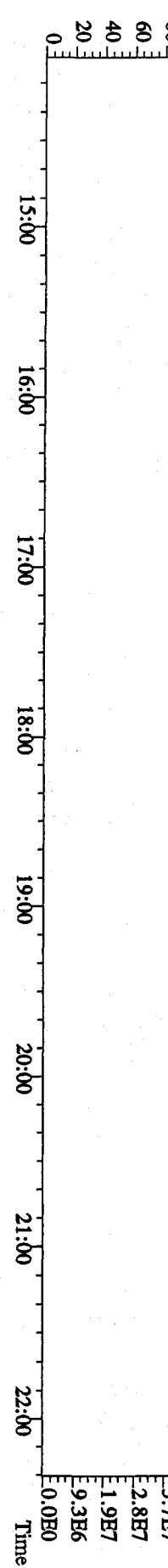
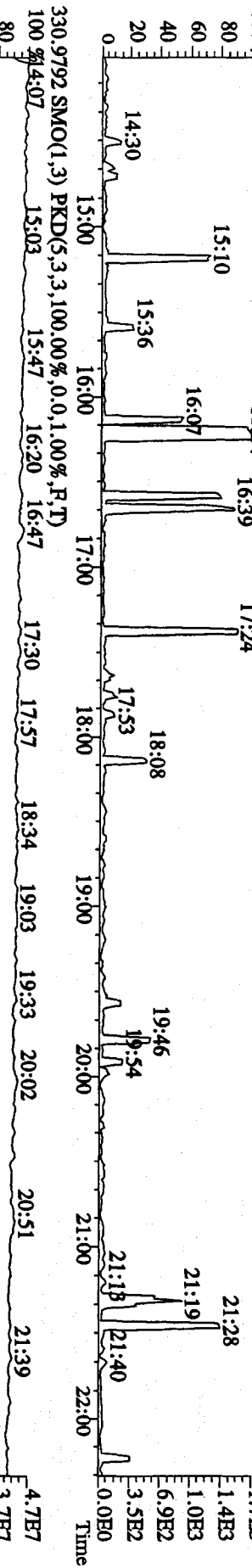
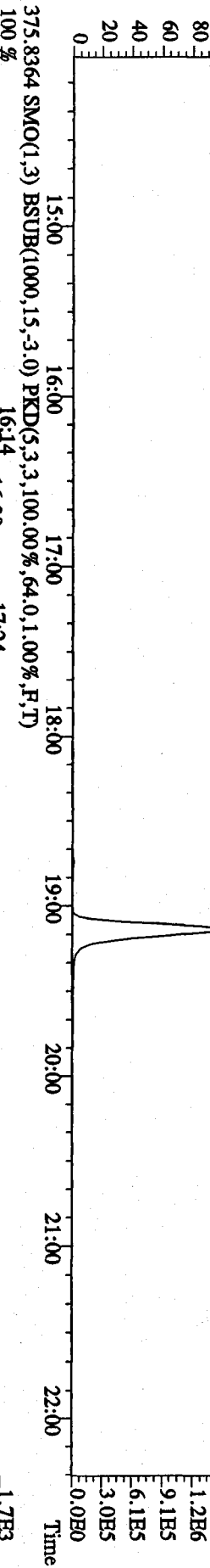
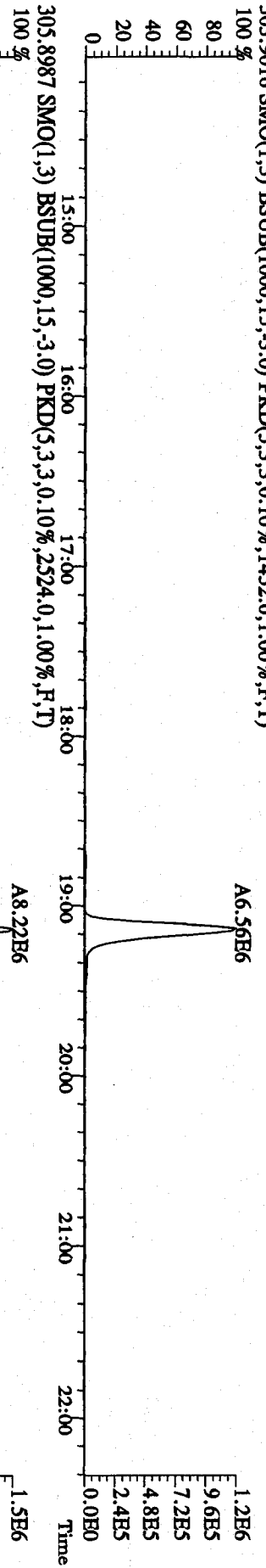
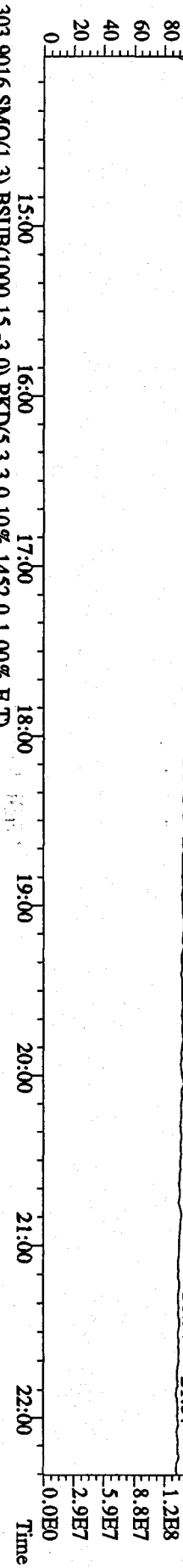
File: 23DE094D5 #1-281 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text: ST1223 :CS3 09DXN384 Exp: DIOXIN
 441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1016.0,1.00%,F,T)
 100% A2.28E7



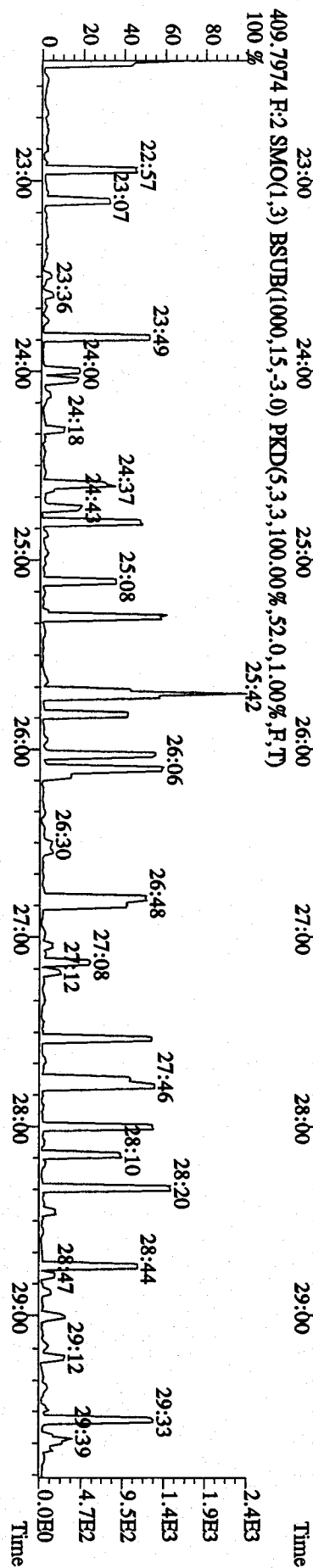
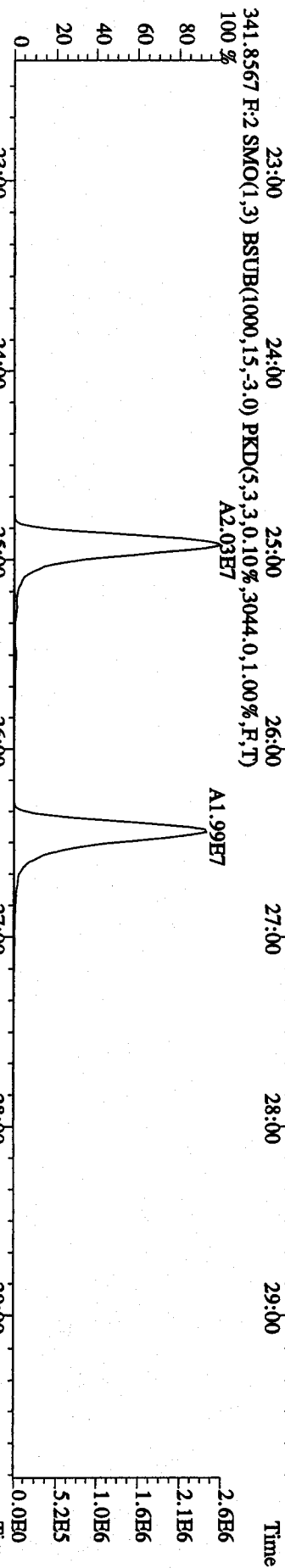
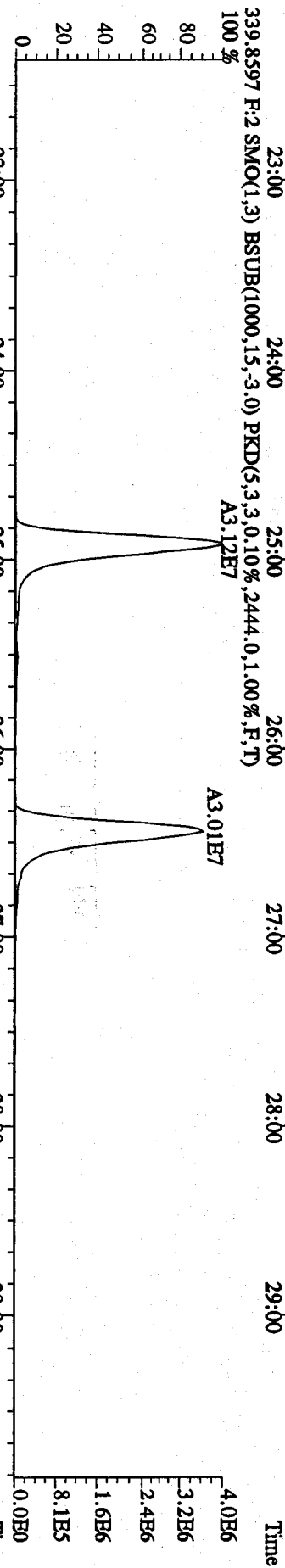
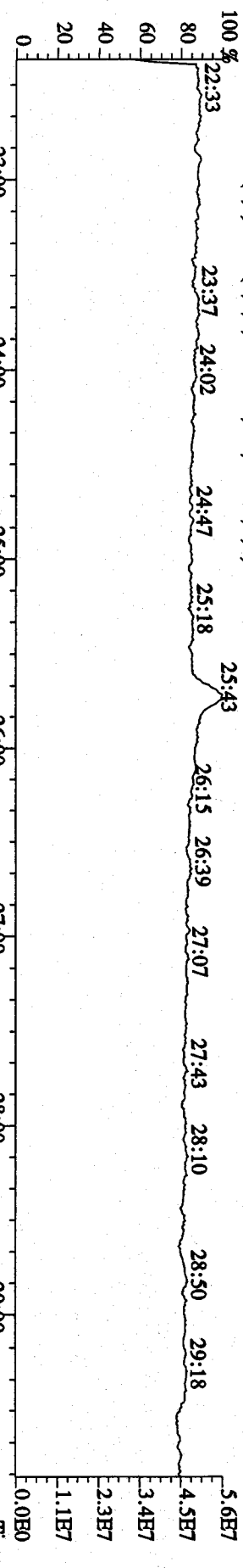
File: 23DE094D5 #1-281 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text: ST1223 : CSS 09DXN384 Exp: DIOXIN
 457.7377 F: 5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.00%,F,T) A1.81E7
 100%



File: 23DIE094D5 #1-578 Acq: 23-DEC-2009 08:45:43 GC EI + Voltage SIR Autospec-UltimaE
 Sample#1 Text: ST1223 :CS3 09DXN384 Exp: DIOXIN
 292.9825 SMO(1.3) PKD(5.3,5.100.00%,0.0,1.00%,F,T)
 100% 4:08 14:42 15:15 16:06 16:48 17:25 17:57 18:34 19:07 19:36 20:03 20:49 21:27 21:57



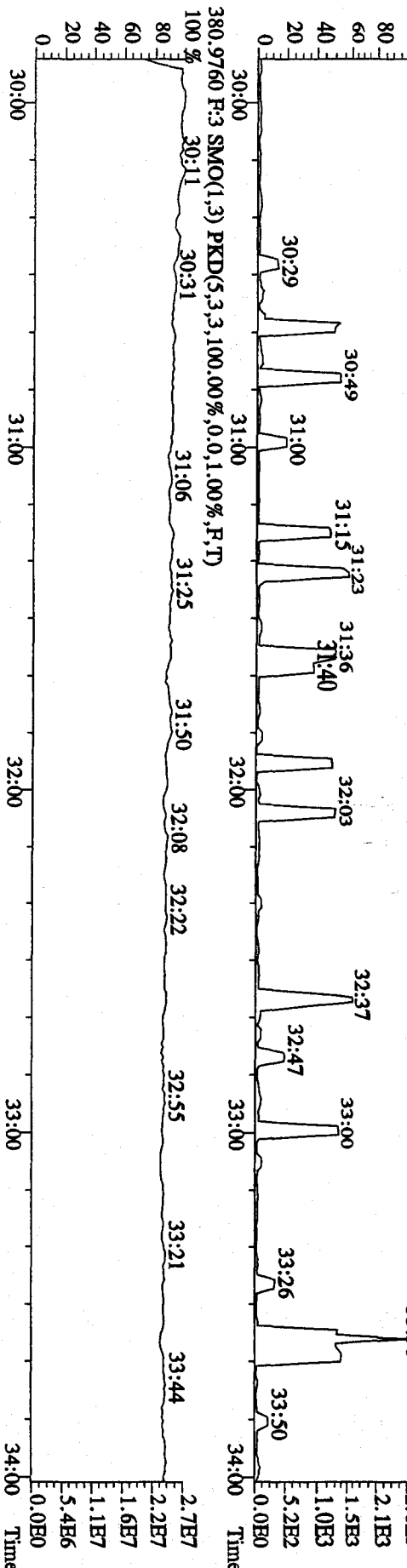
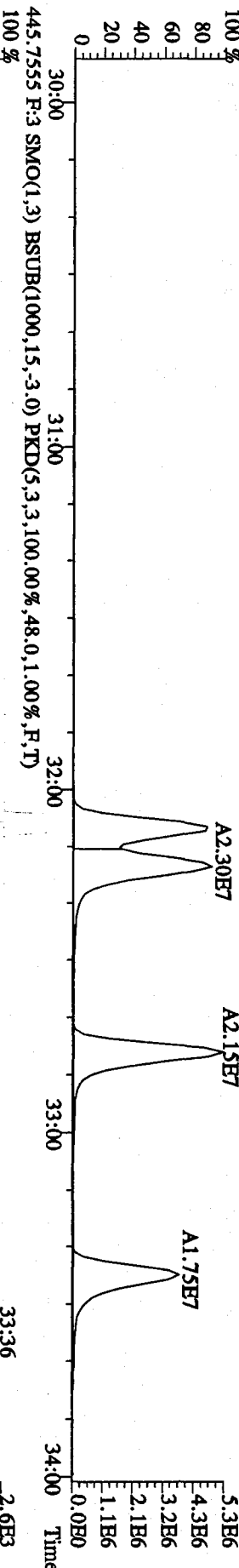
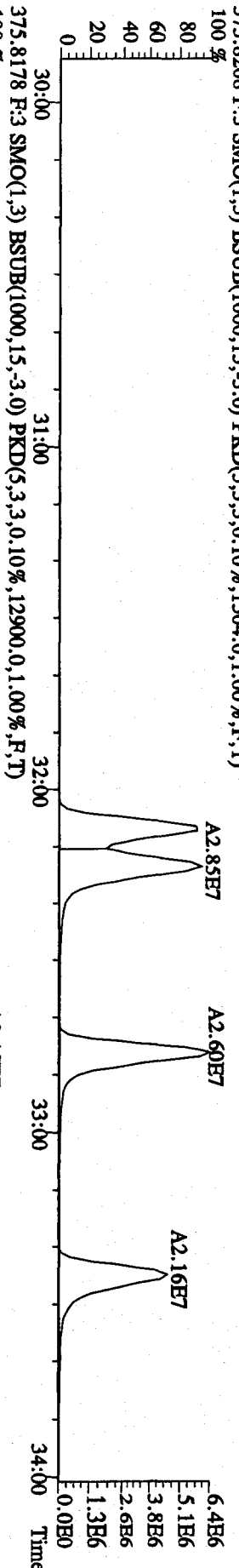
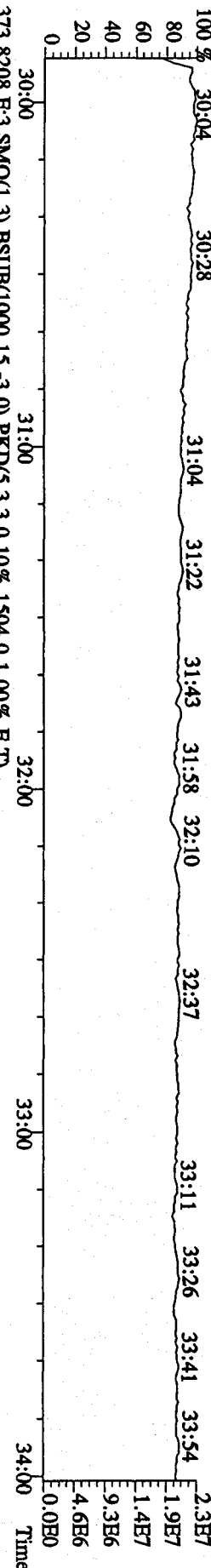
File:23DIB094D5 #1-597 Acq:23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-UttmAB
 Sample#1 Text:ST1223 :CS3 09DXN384 Exp:DIOXIN
 342.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



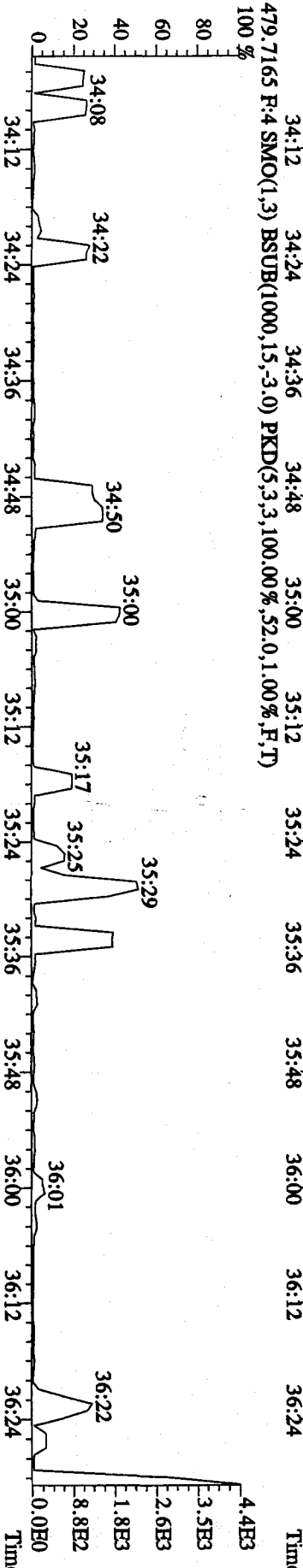
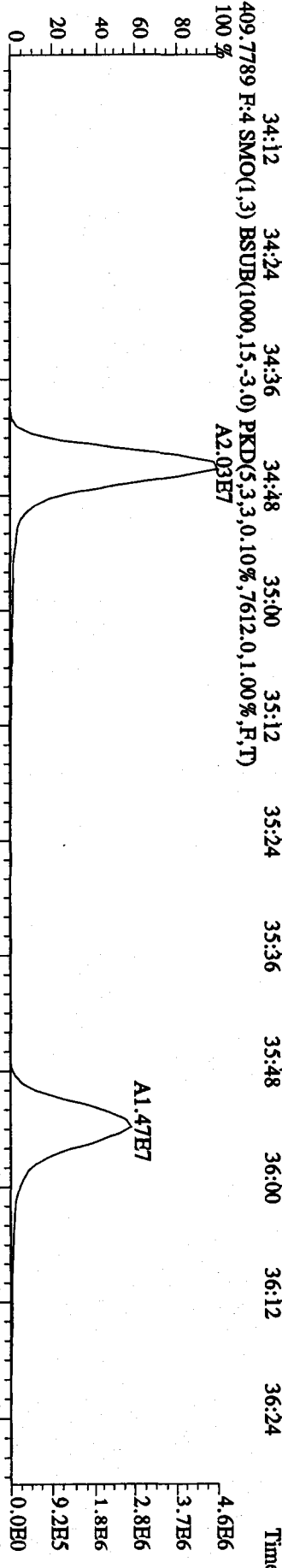
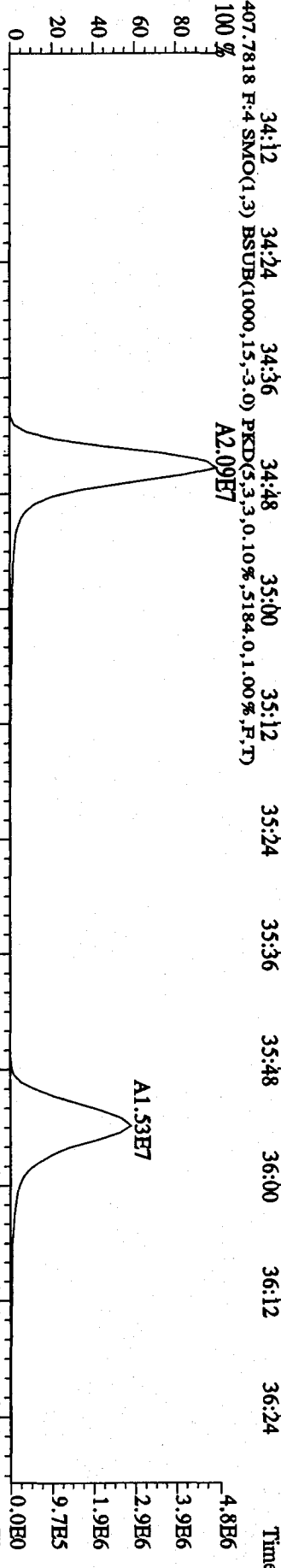
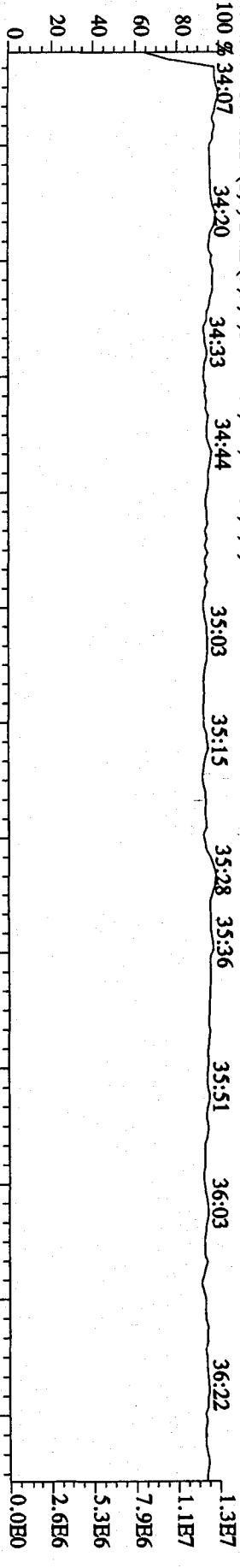
File: 23DE094D5 #1-314 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-Ultimate

Sample#1 Text: ST1223 :CS3 09DXN384 Exp: DIOXIN

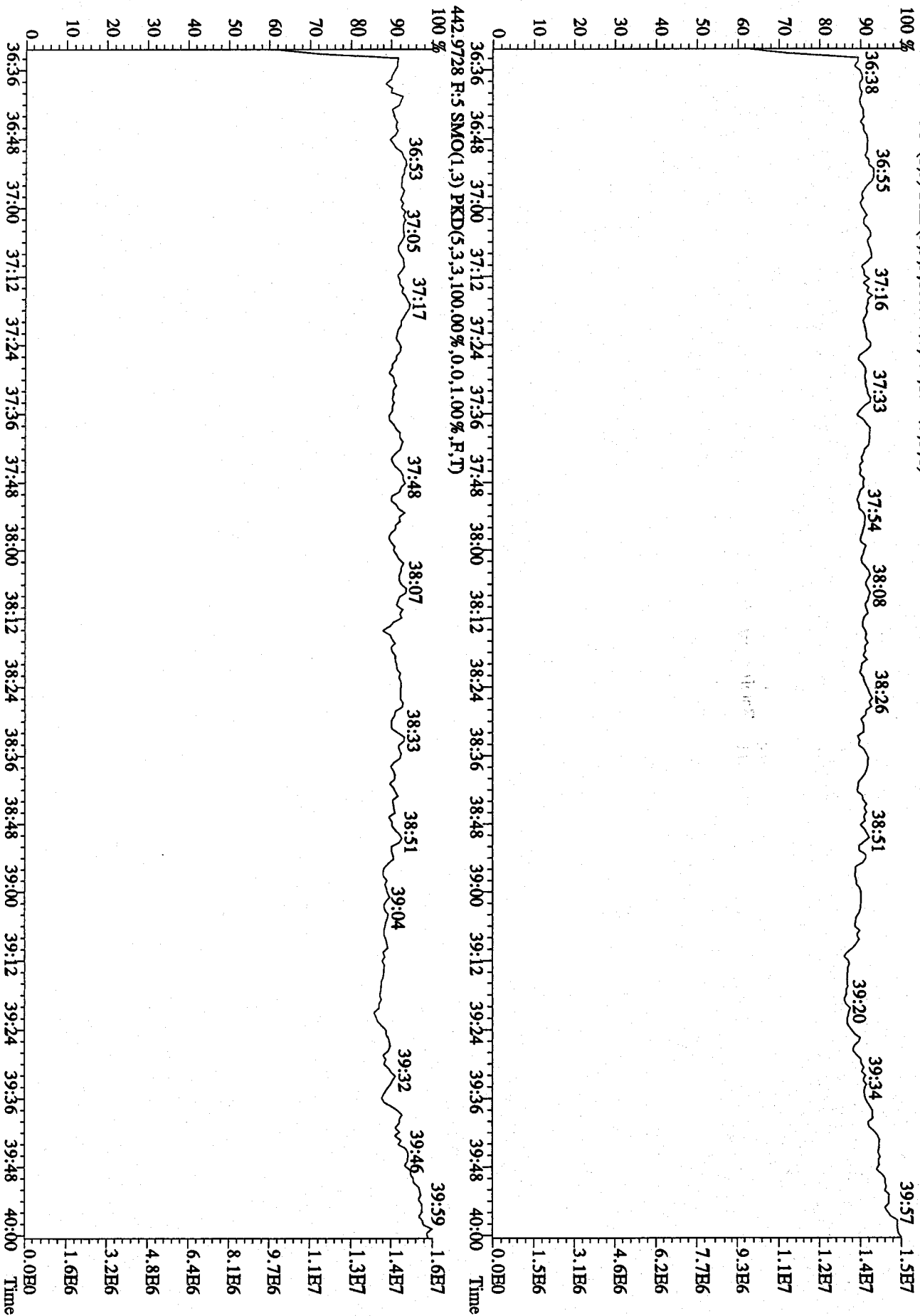
392.9760 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



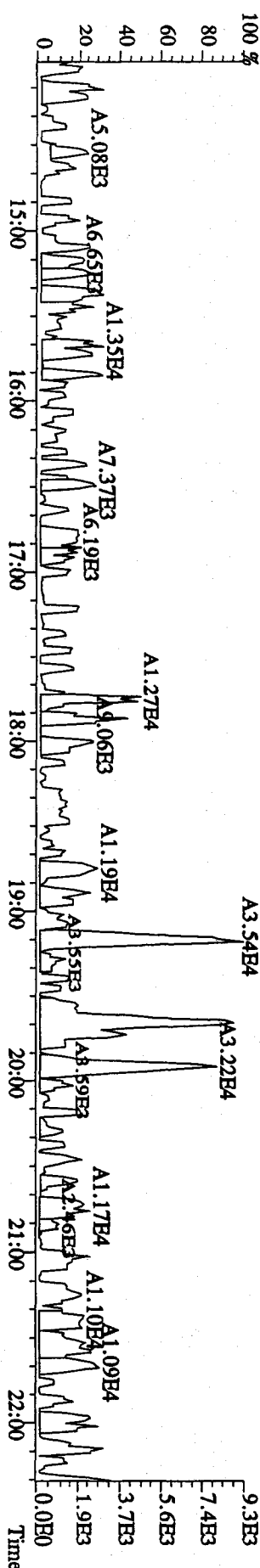
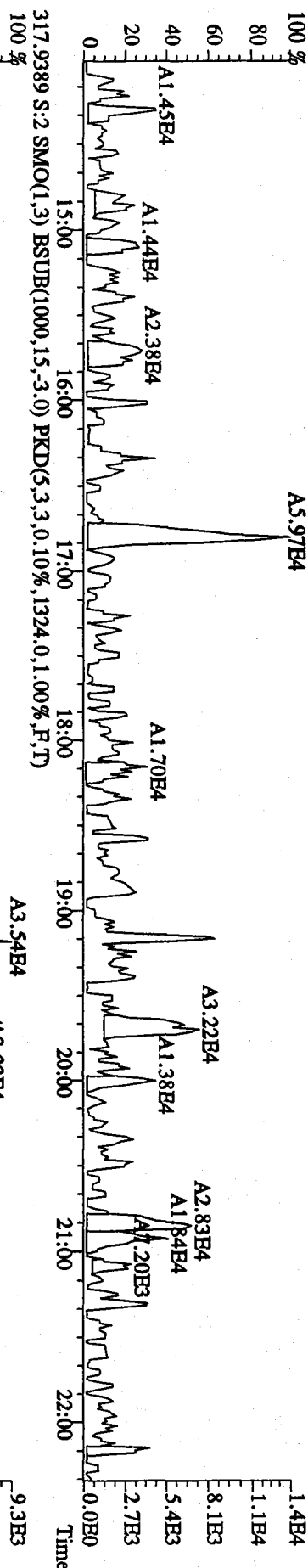
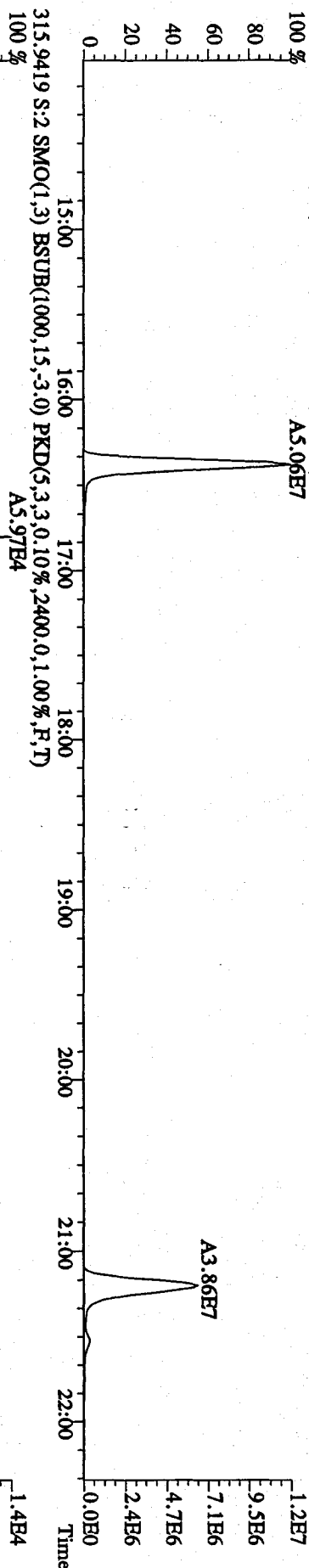
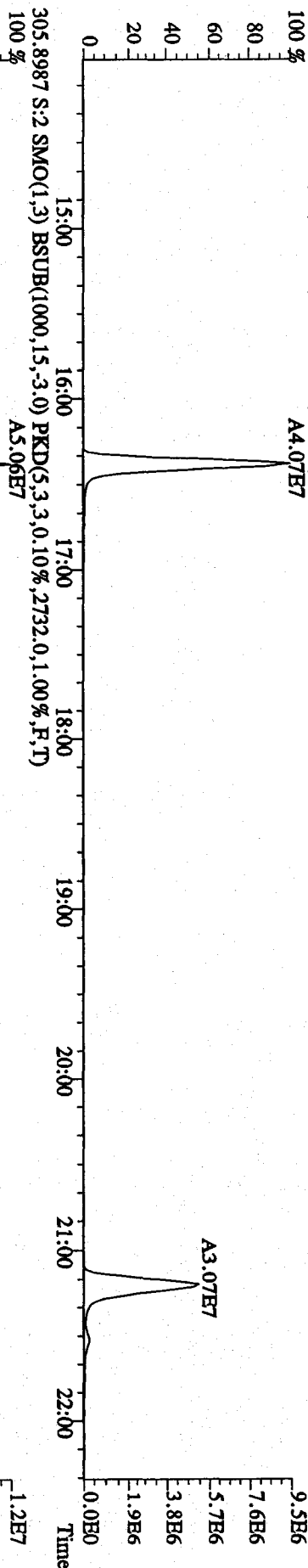
File: 23DDE094D5 #1-198 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-Ultimate
 Sample #1 Text: ST1223 : CSS 09DXN384 Exp: DIOXIN
 430.9728 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 34:07 34:20 34:33 34:44 35:03 35:15 35:28 35:36 35:51 36:03 36:22



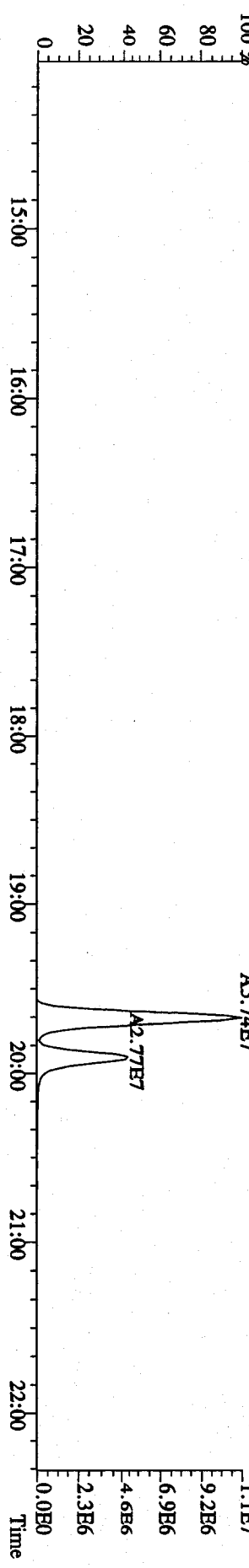
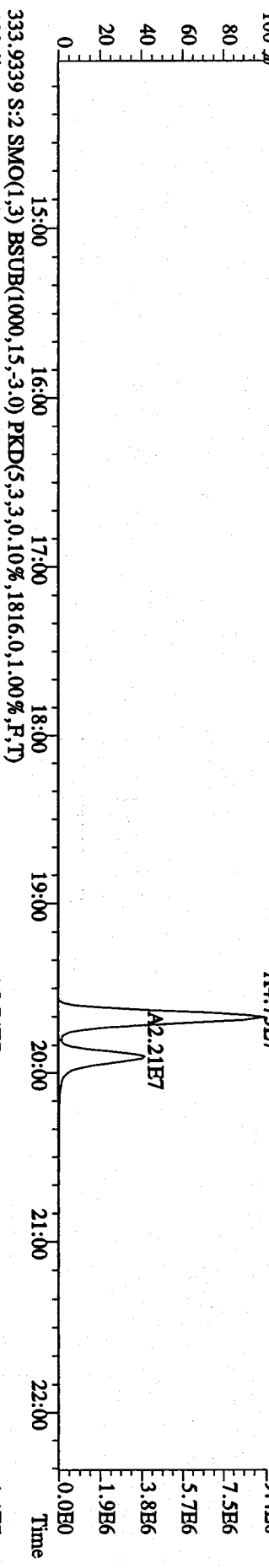
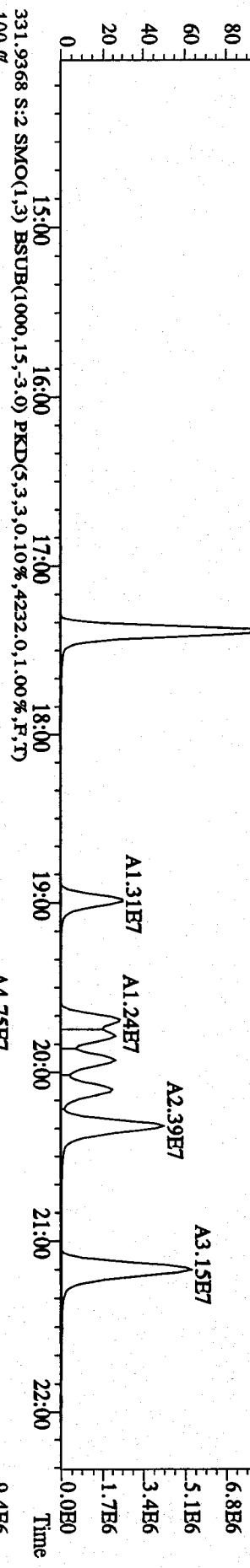
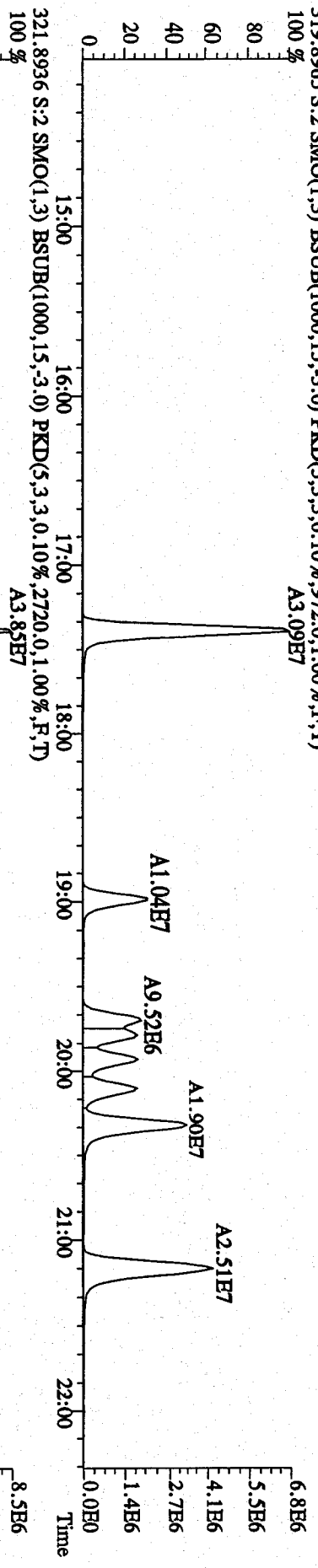
File: 23DE094D5 #1-281 Acq: 23-DEC-2009 08:45:43 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text: ST1223 :CS3 09DDXN384 Exp: DIOXIN
 454.9728 F: 5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)
 100 %



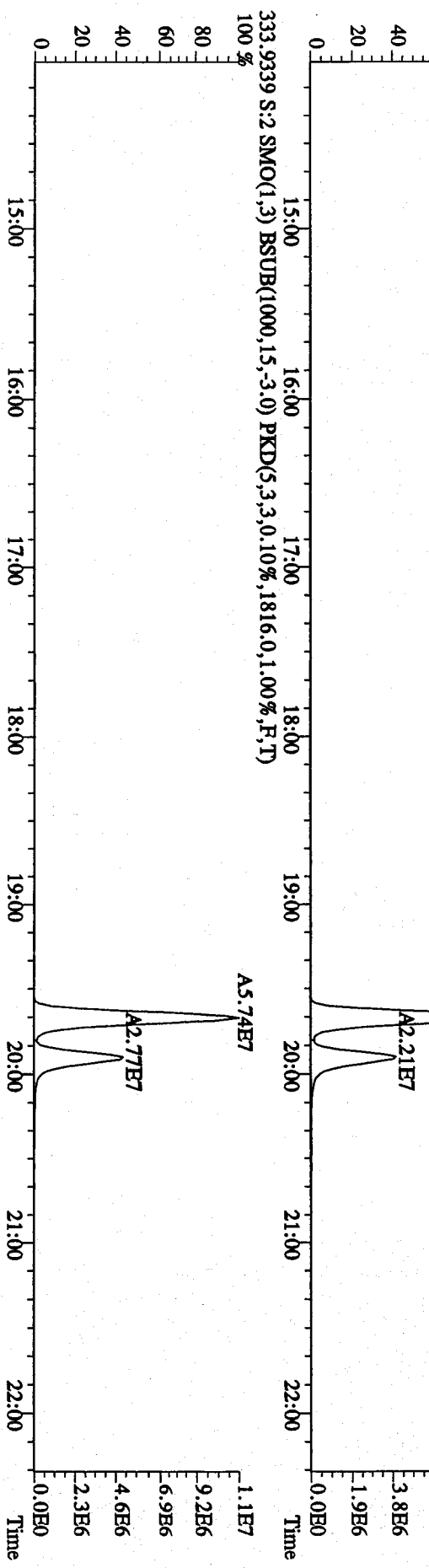
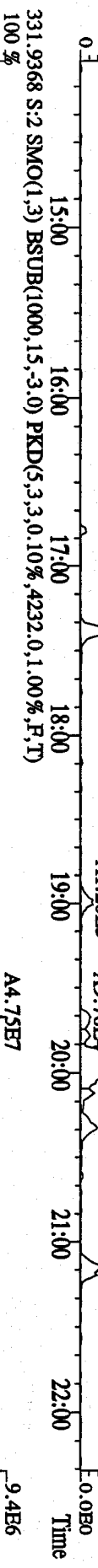
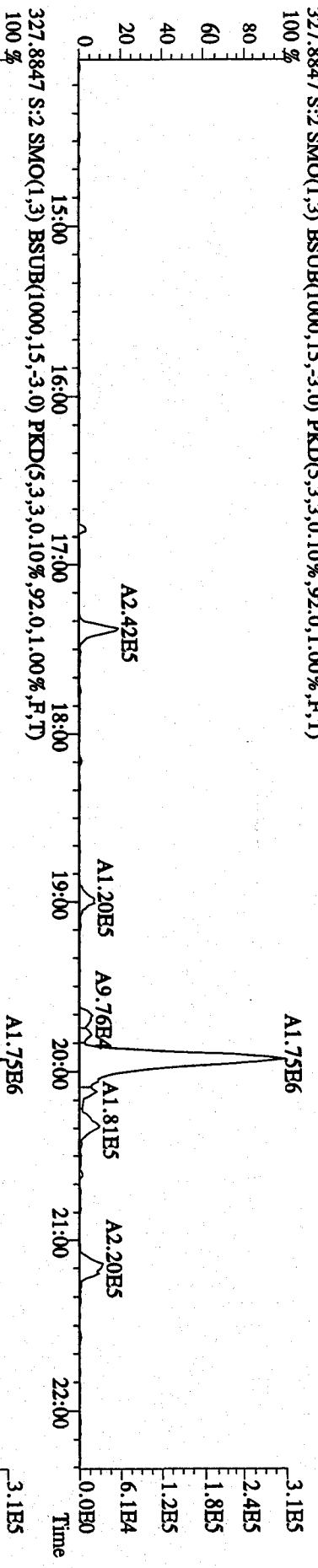
File:23DE094D5 #1-578 Acq:23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:CP1223 :DB-5 CPSM 3732-03 Exp:DIOXIN
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2640,0,1,00%,F,T)
 100% A4.07E7



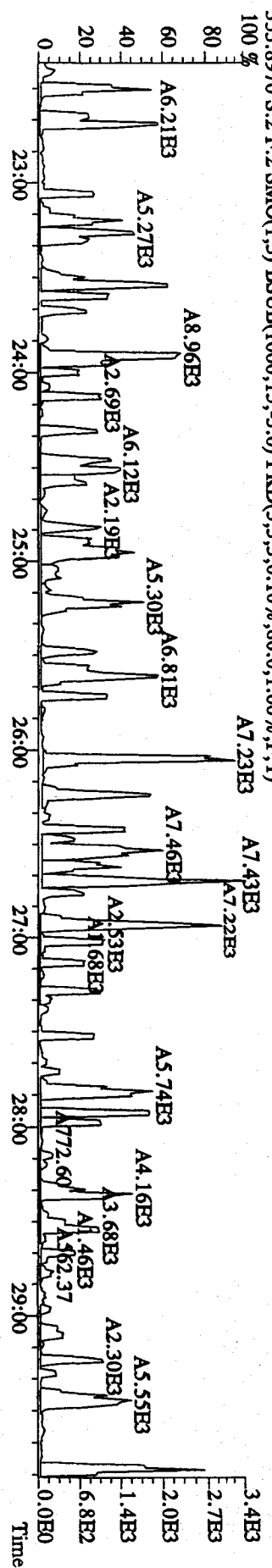
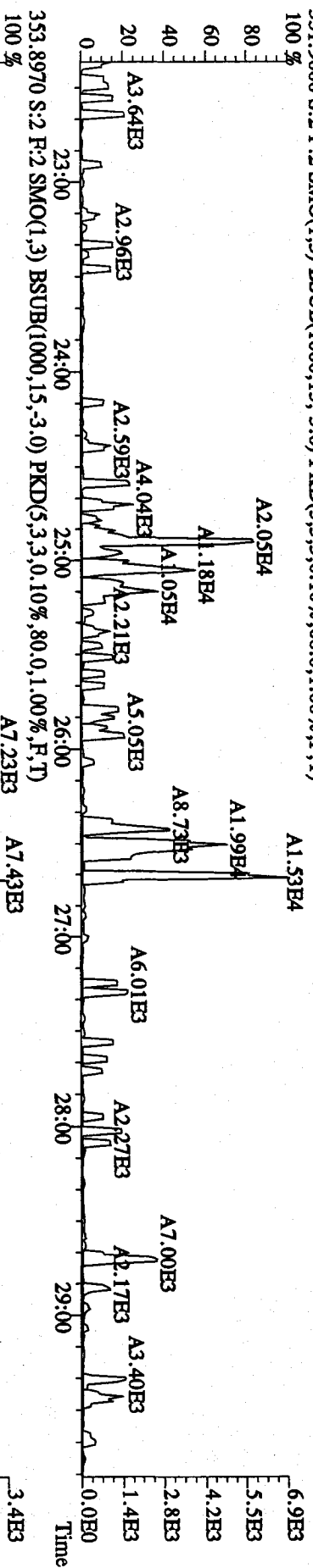
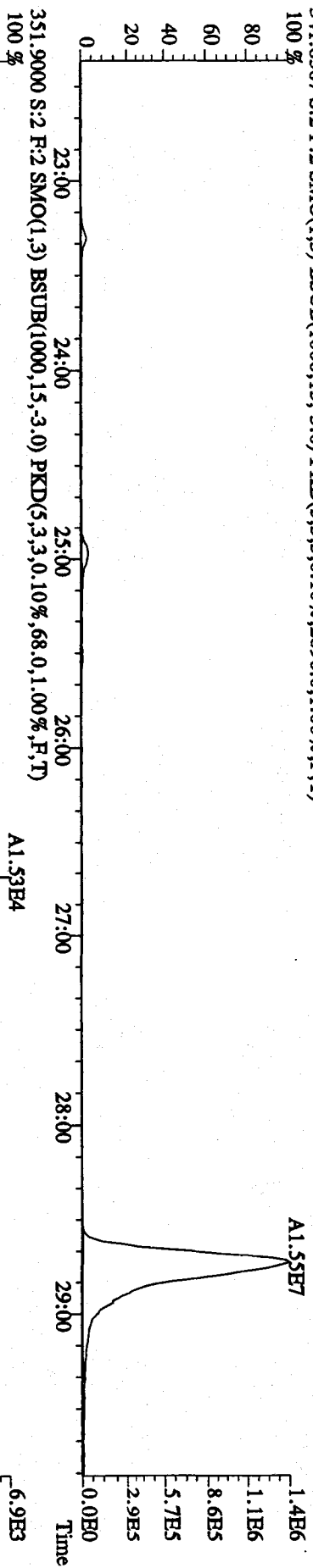
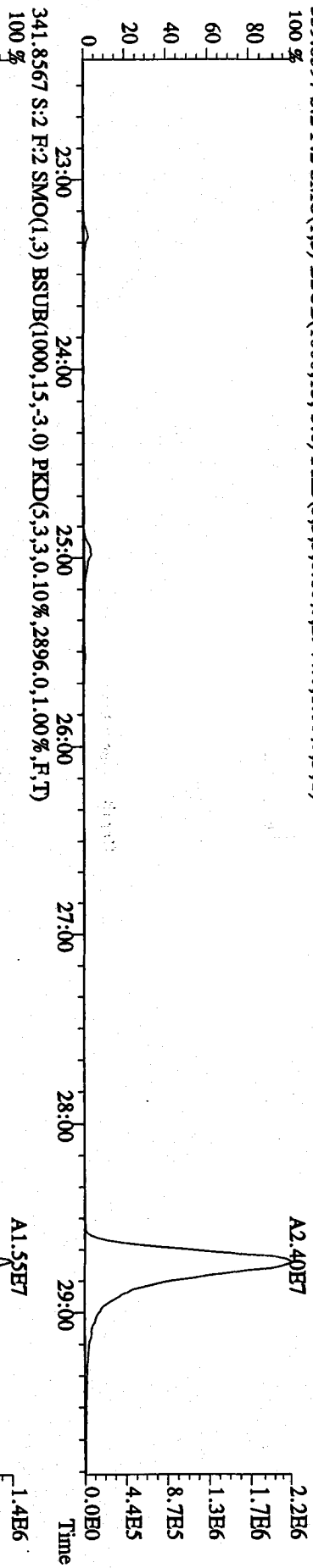
File: 23DE094D5 #1-578 Acq: 23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text: CP1223 :DB-5 CPSM 3732.03 Exp: DIOXIN
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,972.0,1.00%,F,T)
 100% A3.09E7



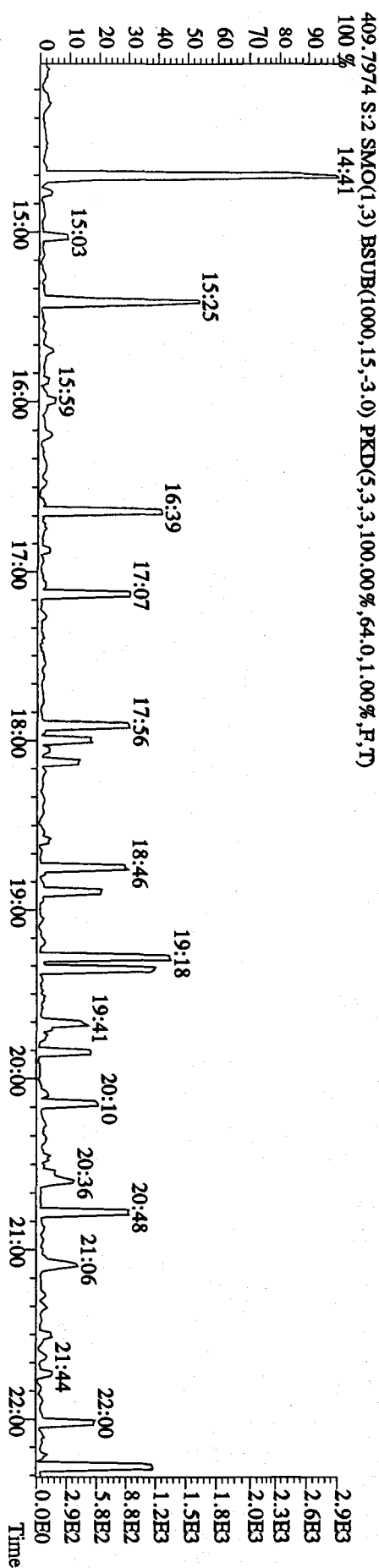
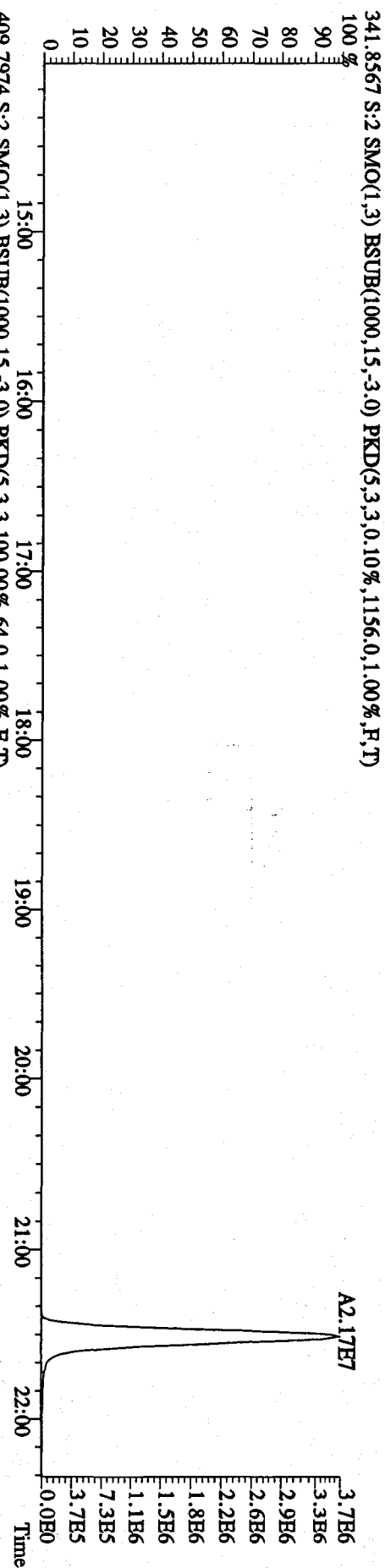
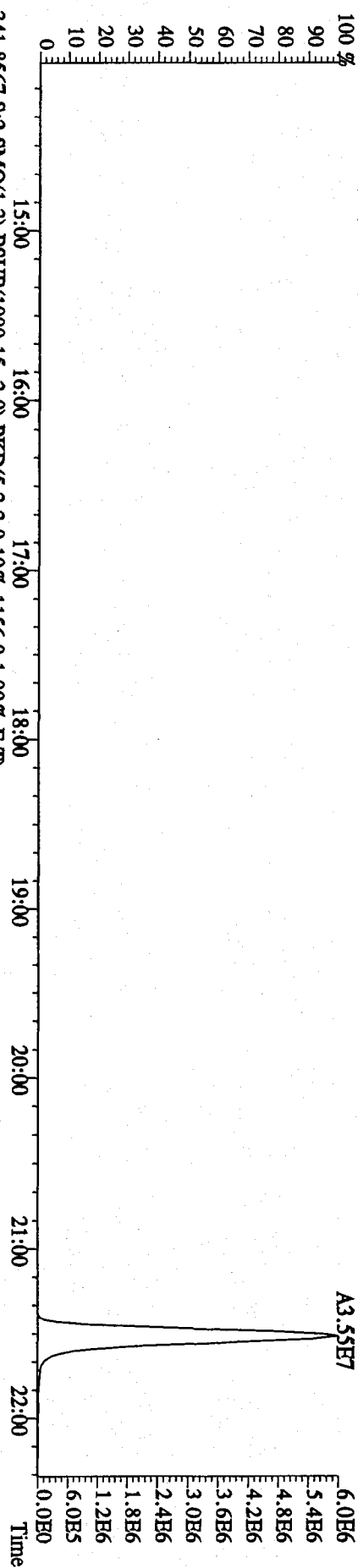
File:23DDE094D5 #1-578 Acq:23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:CP1223 :DB-5 CFSM 3732-03 Exp:DIOXIN
 327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)
 100 %



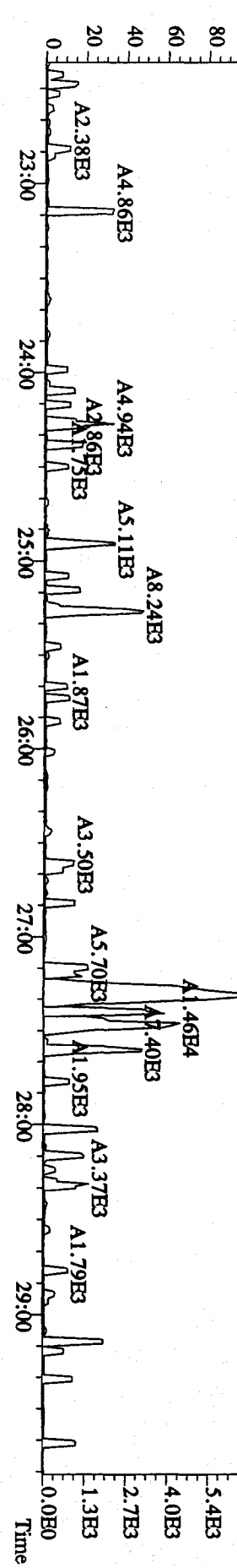
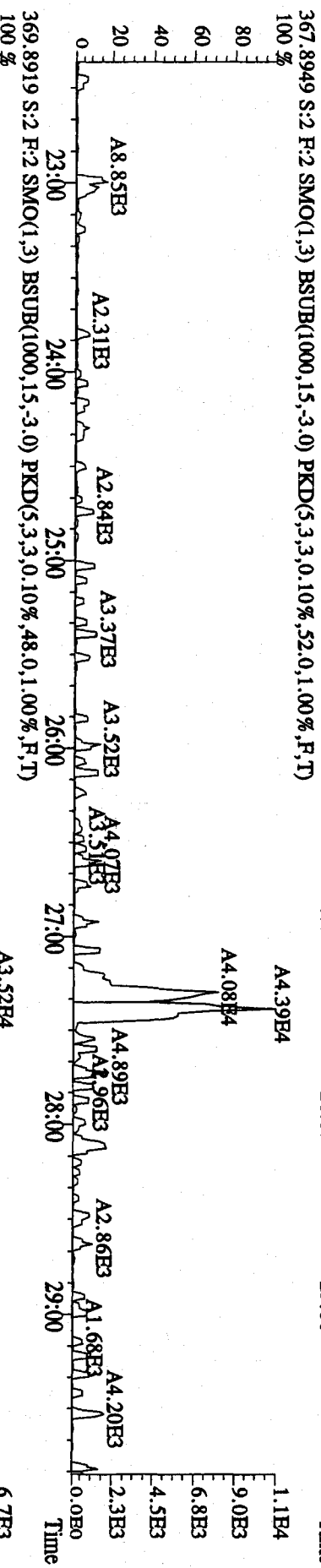
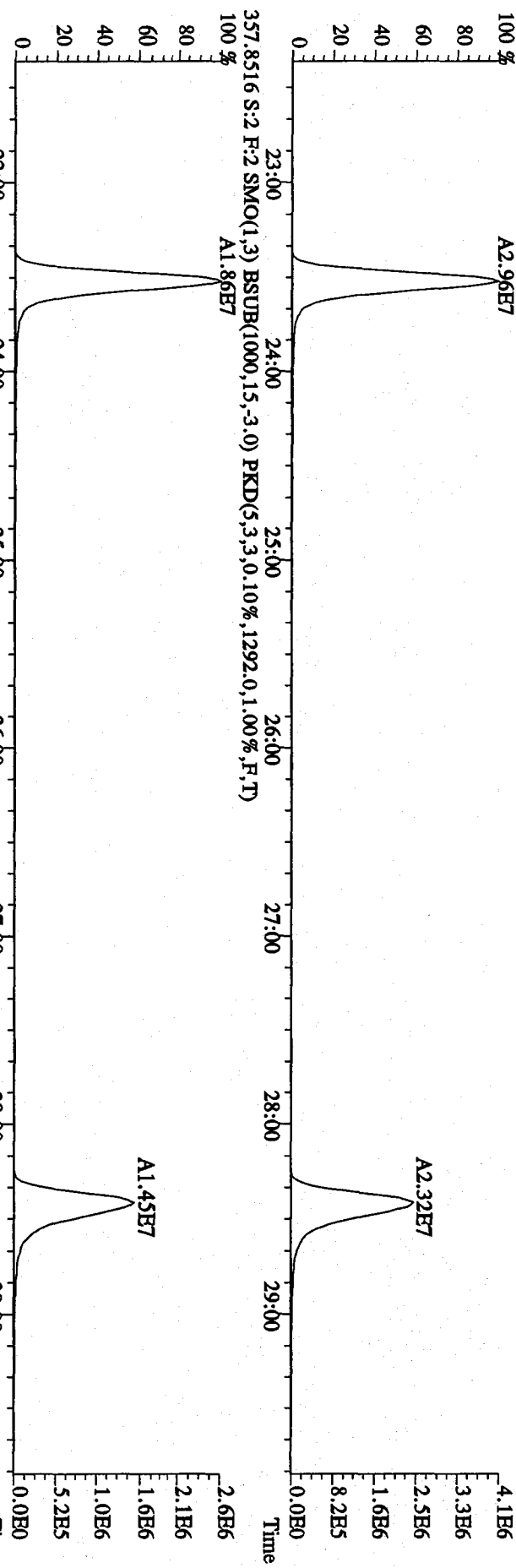
File: 23DE094D5 #1-597 Acq: 23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text: CP1223 :DB-5 CP5M 3732-03 Exp: DIOXIN
 339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2944.0,1.00%,F,T)



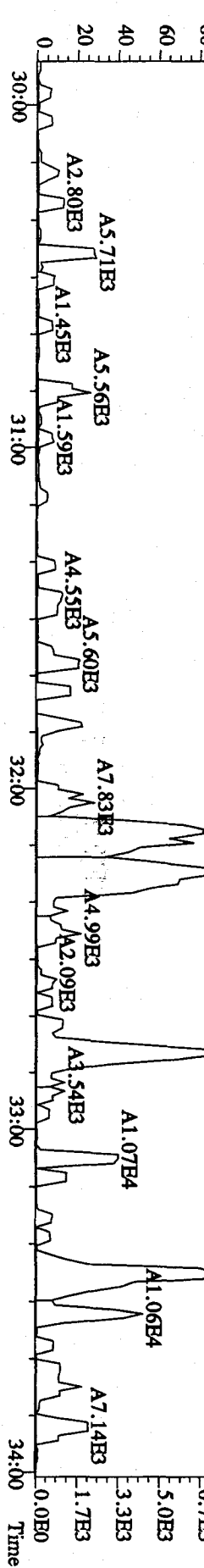
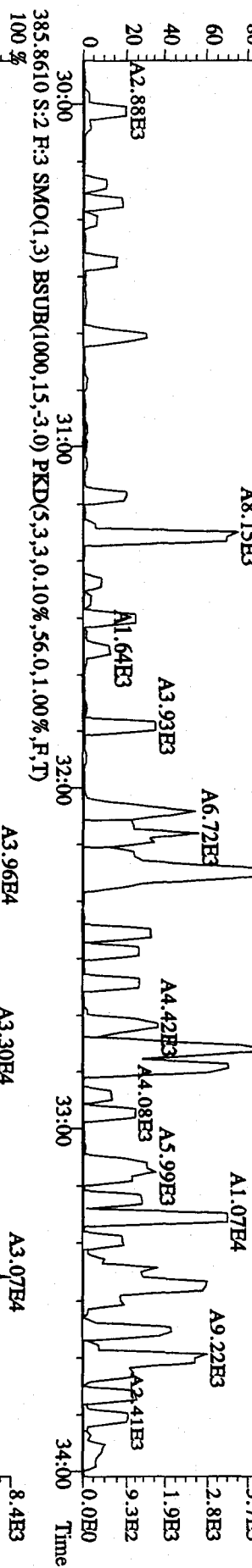
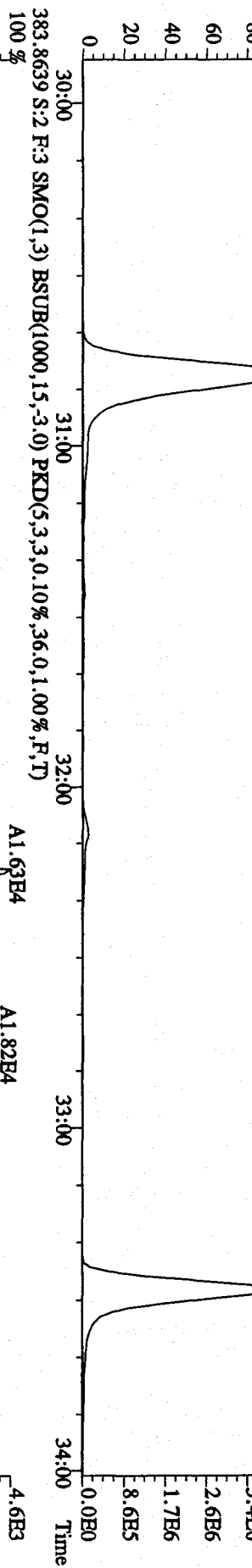
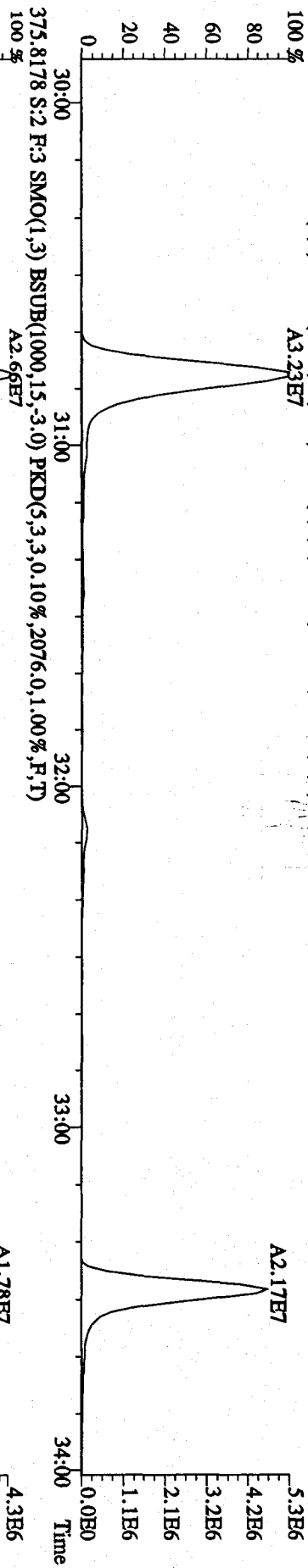
File: 23DE094D5 #1-578 Acq: 23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-UltimaF
 Sample#2 Text: CP1223 :DB-5 CP5M 3732-03 Exp: DIOXIN
 339.8597 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,52.0,1.00%,F,T)



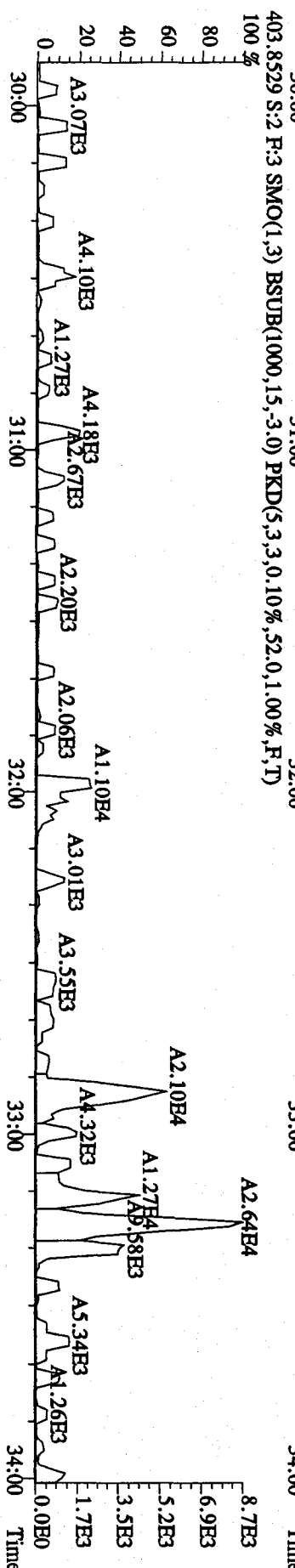
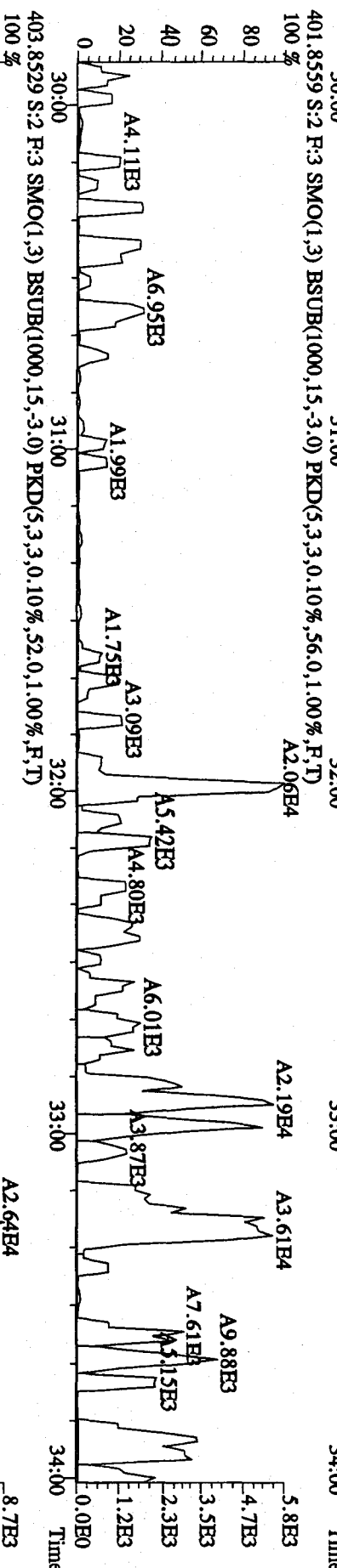
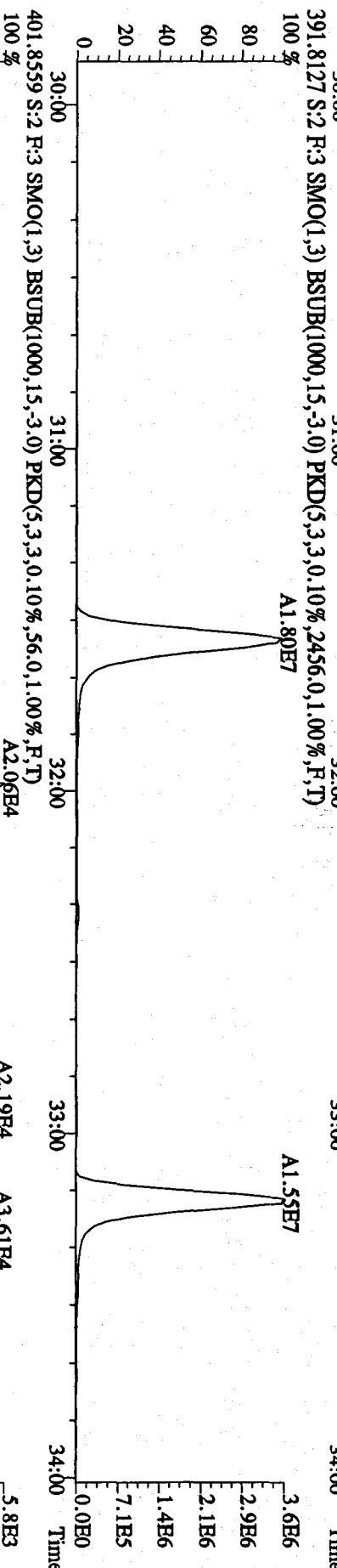
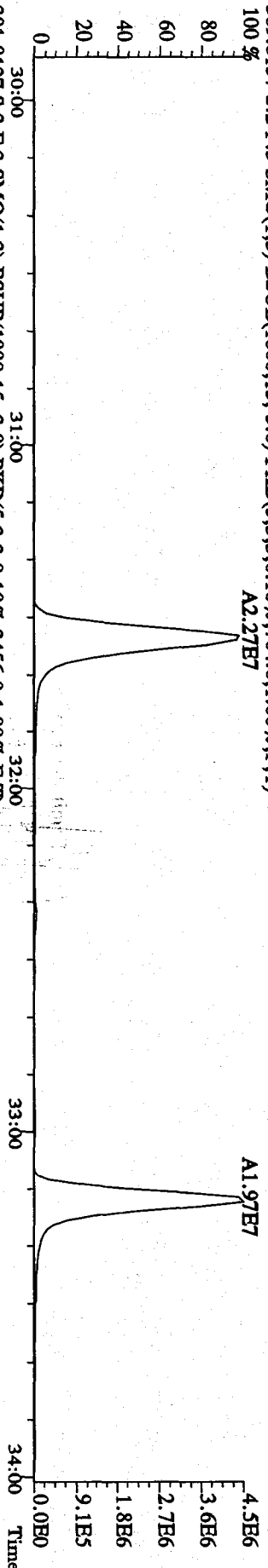
File: 23DDE094D5 #1-597 Acq: 23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text: CP1223 :DB-5 CPSM 3732-03 Exp: DIOXIN
 357.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3684,0,1.00%,F,T)
 100%



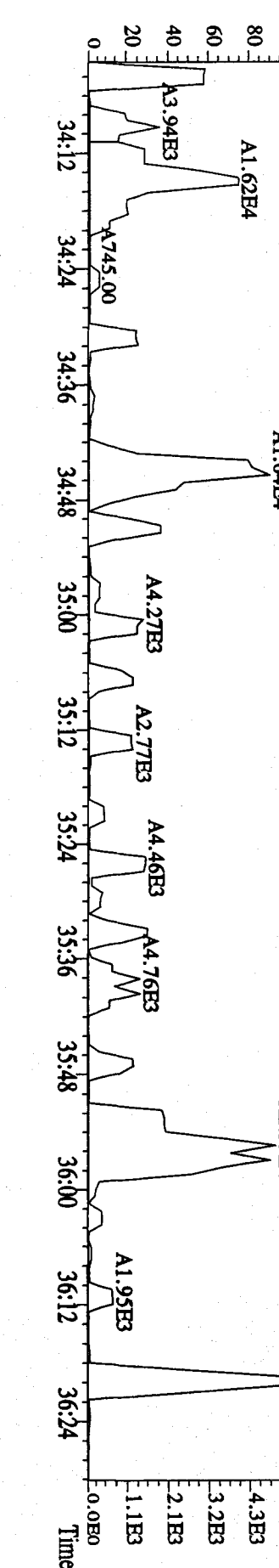
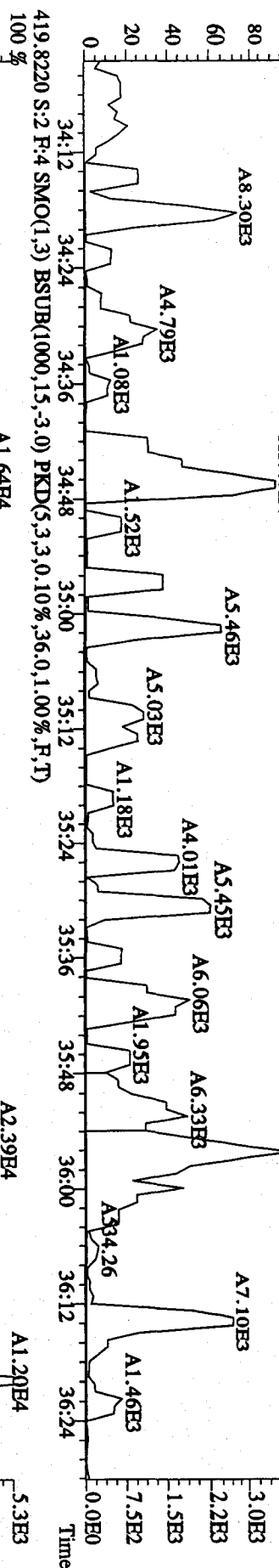
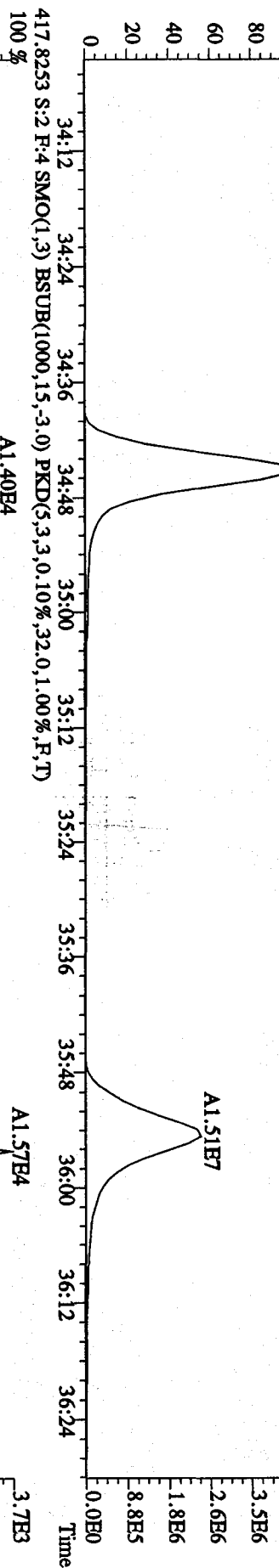
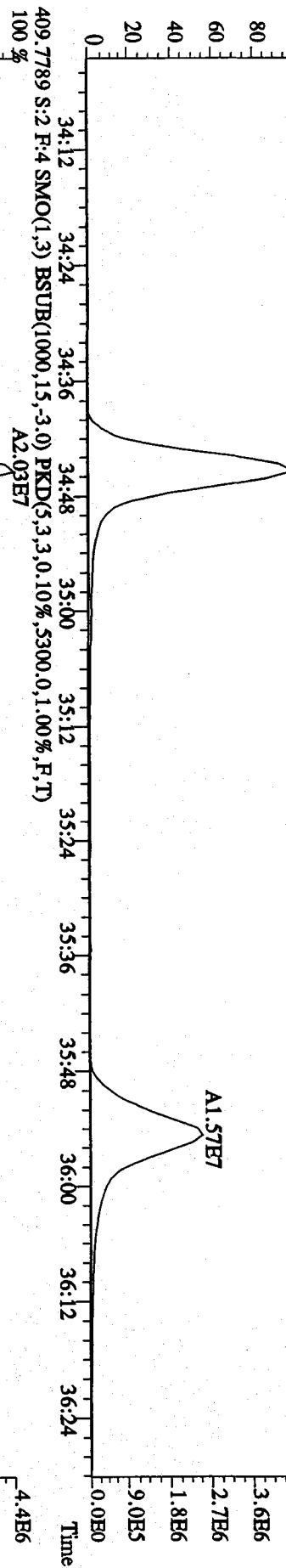
File: 23DBE094D5 #1-314 Acq: 23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text: CP1223 : DB-5 CPISM 3732-03 Exp: DIOXIN
 373.8208 S: 2 F: 3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2764,0.1,00%,F,T)
 A3.23E7



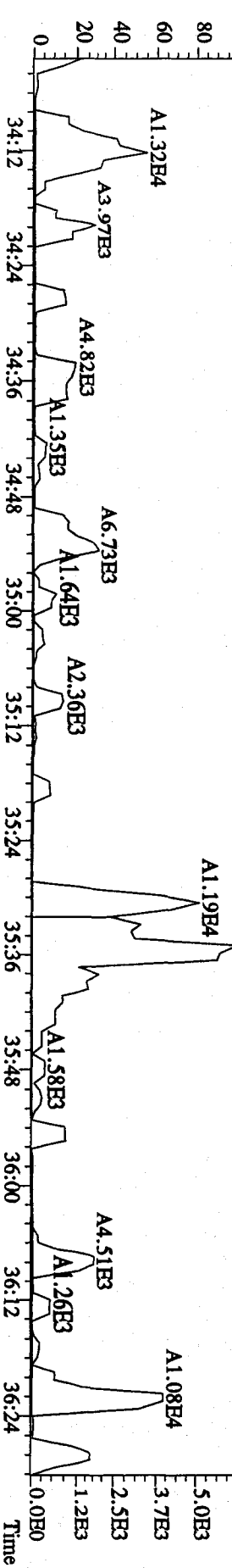
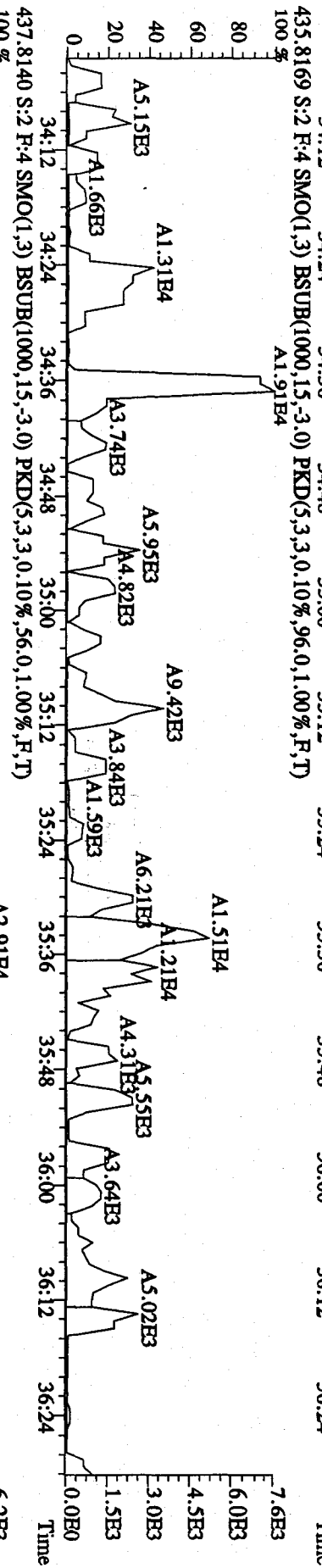
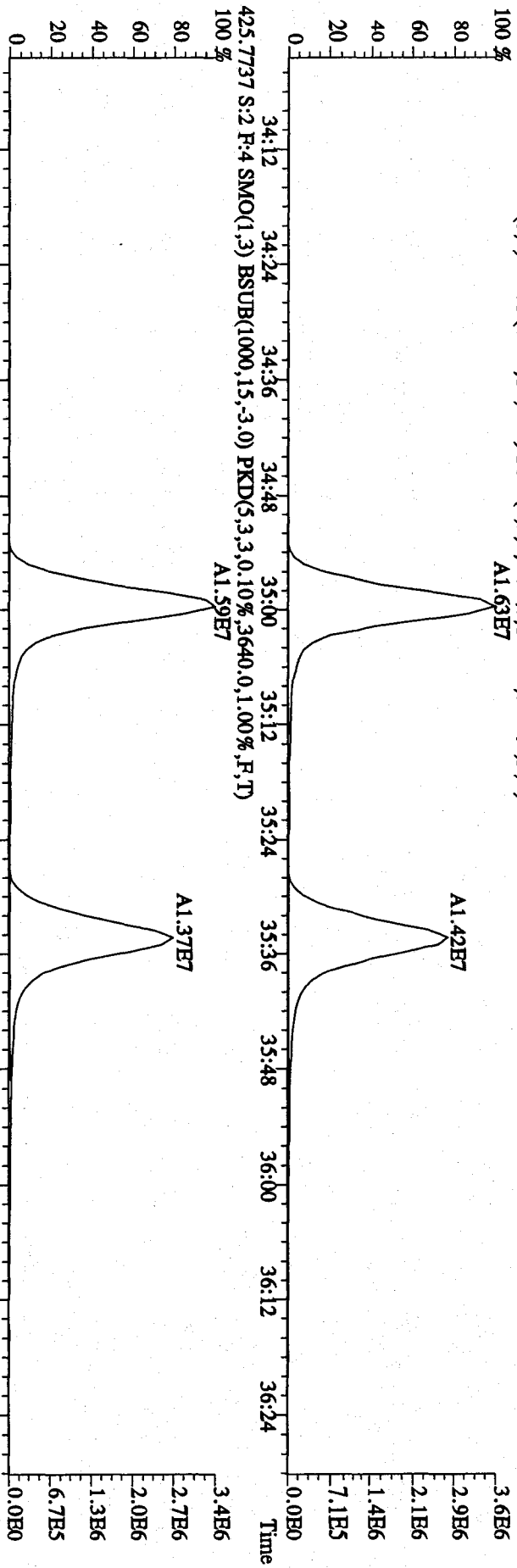
File:23DDE094D5 #1-314 Acq:23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:CP1223 :DB-5 CPSM 3732-03 Exp:DIOXIN
 389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,704.0,1.00%,F,T)
 A2.27E7



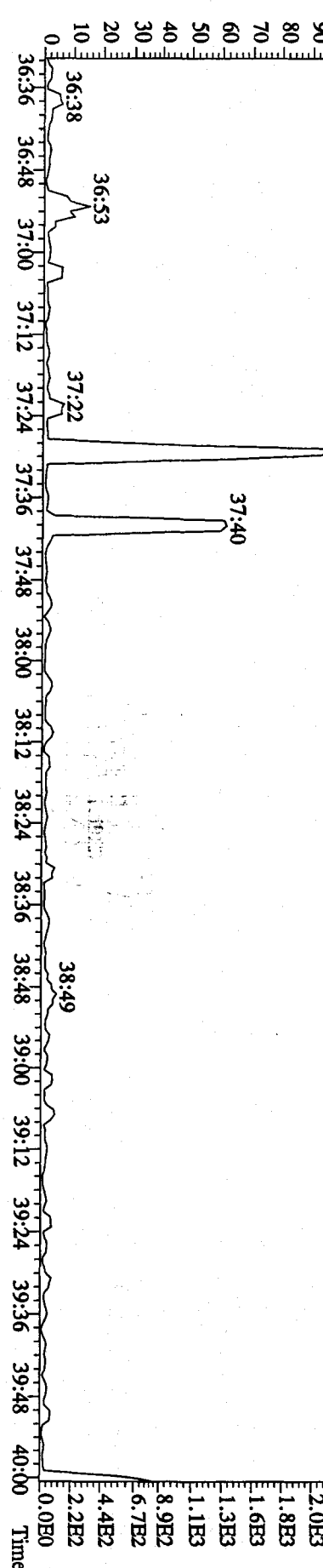
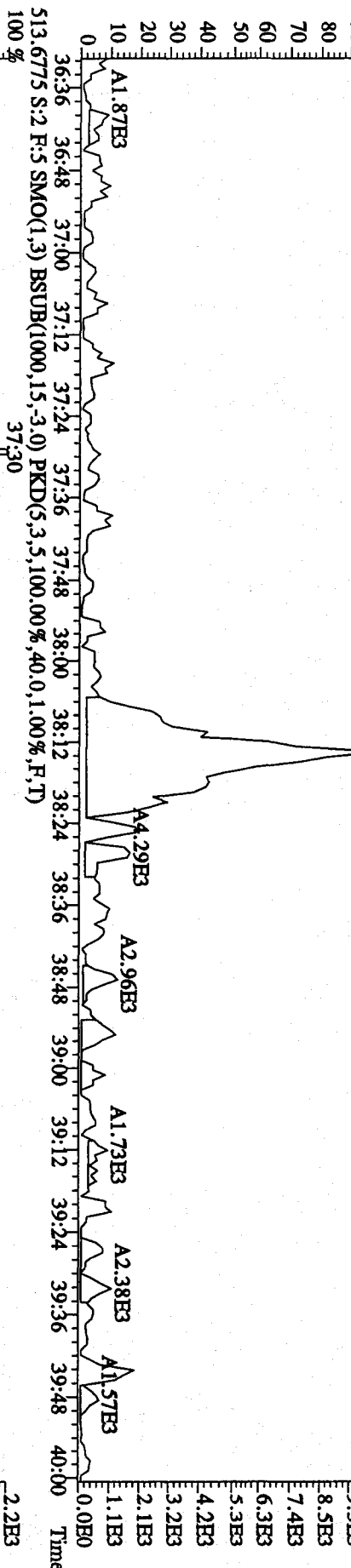
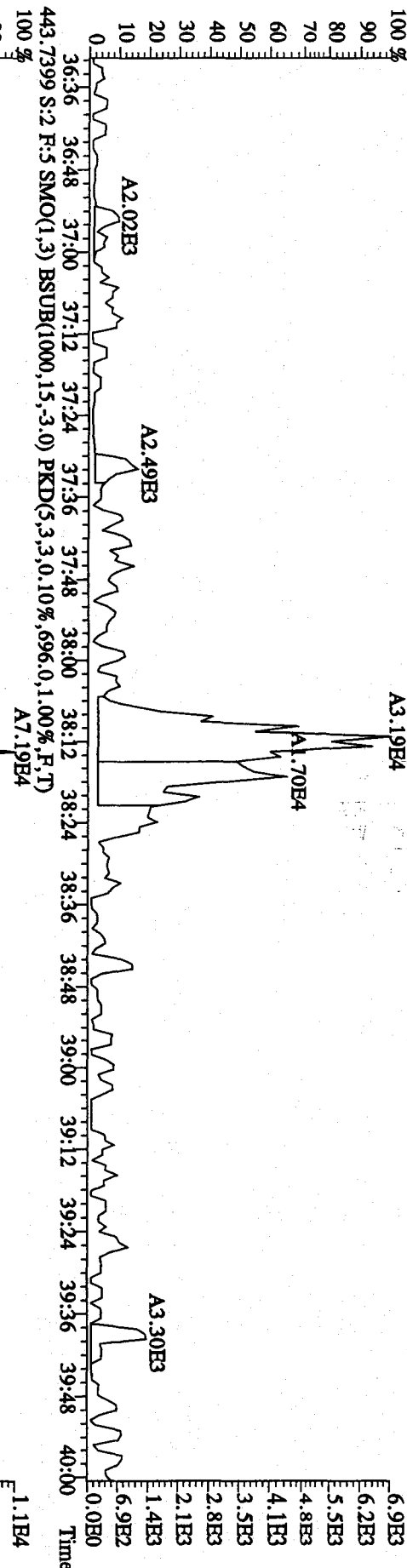
File: 23DDE094D5 #1-197 Acq: 23-DEC-2009 09:29:45 GC HI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text: CP1223 :DB-5 CP5M 3732-03 Exp: DIOXIN
 407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6704,0,1.00%,F,T)
 100% A2.07E7



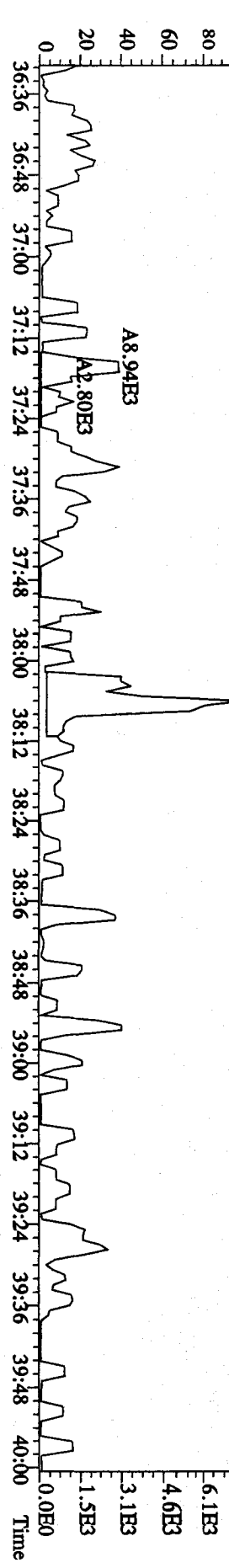
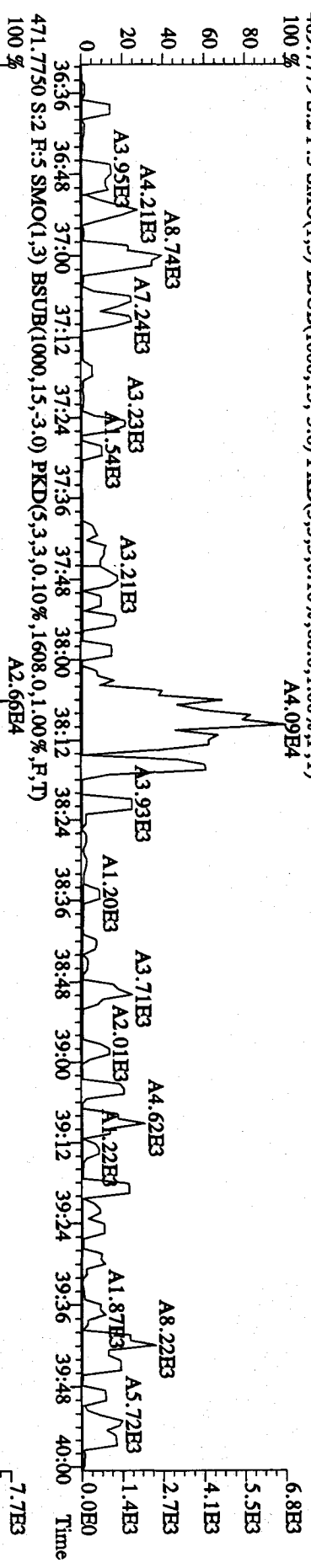
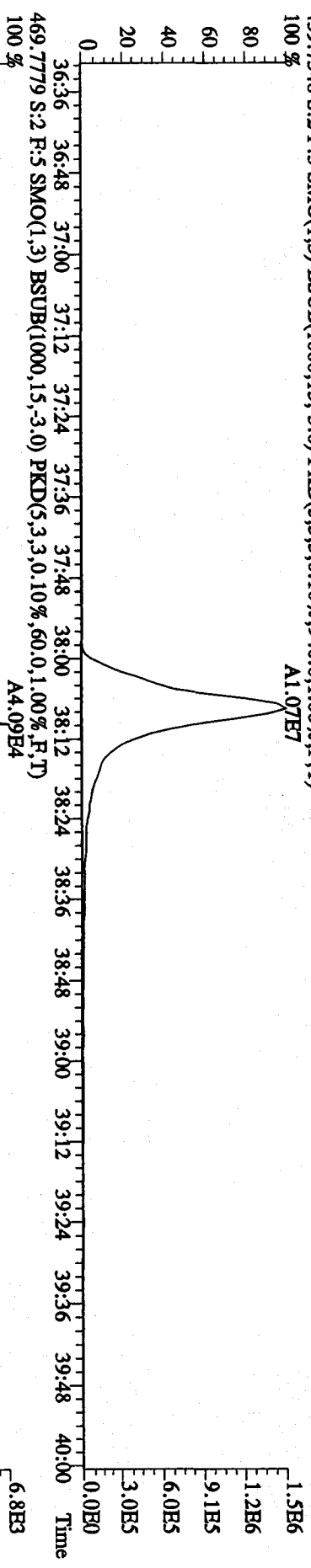
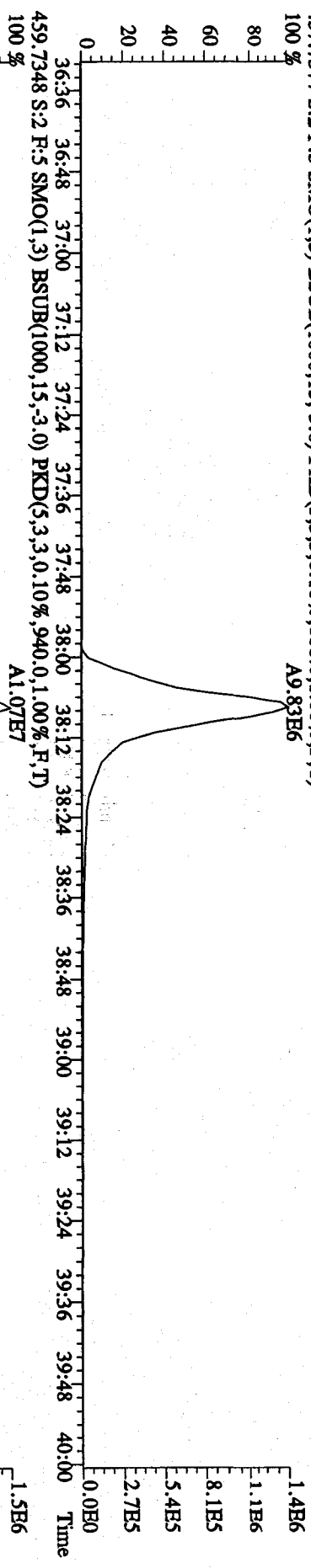
File:23DE094D5 #1-197 Acq:23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:CP1223 :DB-5 CP5M 3732-03 Exp:DIOXIN
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1888,0,1,00%,F,T)
 100%



File:23DE094D5 #1-282 Acq:23-DEC-2009 09:29:45 GC EI + Voltage SIR Autospec-Ultimate
 Sample#2 Text:CP1223 :DB-5 CP8M 3732-03 Exp:DIOXIN
 441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,500.0,1.00%,F,T) A3.19E4

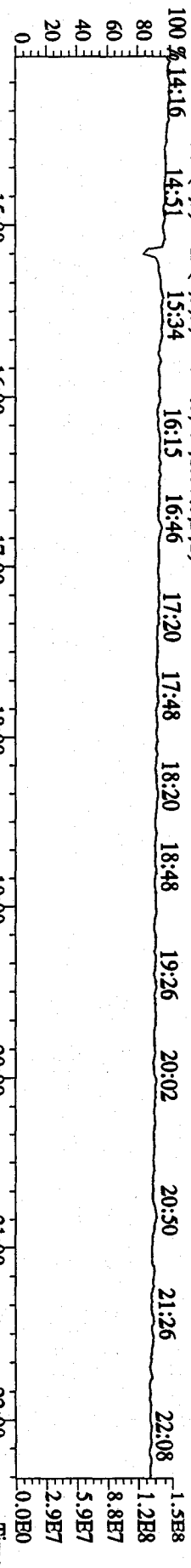


File:23DDE094D5 #1-282 Acq:23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:CP1223 :DB-5 CP5M 3732-03 Exp:DIOXIN
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,688.0,1.00%,F,T)
 100%

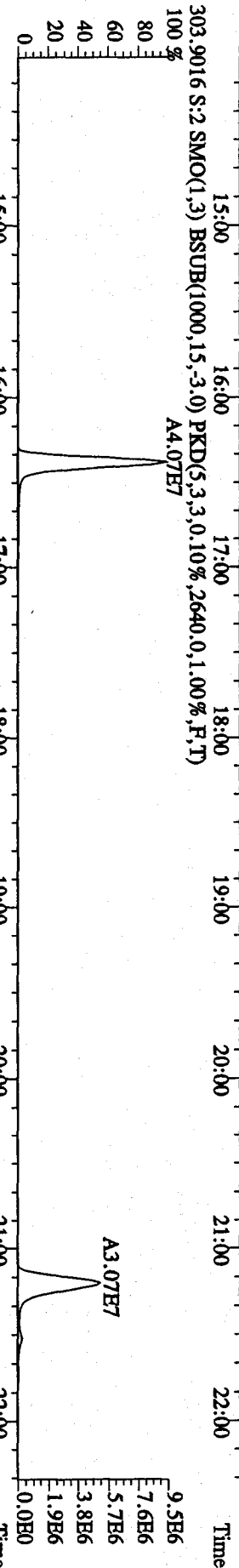


Sample#2 Text: CP1223 :DB-5 CPSM 3732-03 Exp: DIOXIN

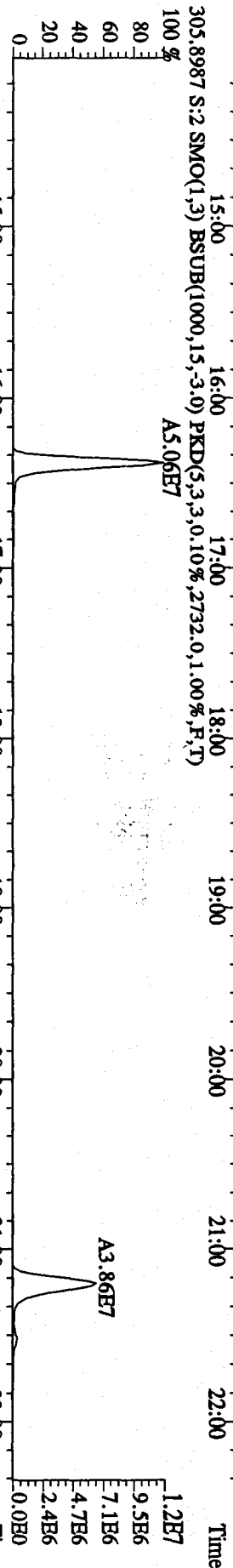
292.9825 S:2 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)



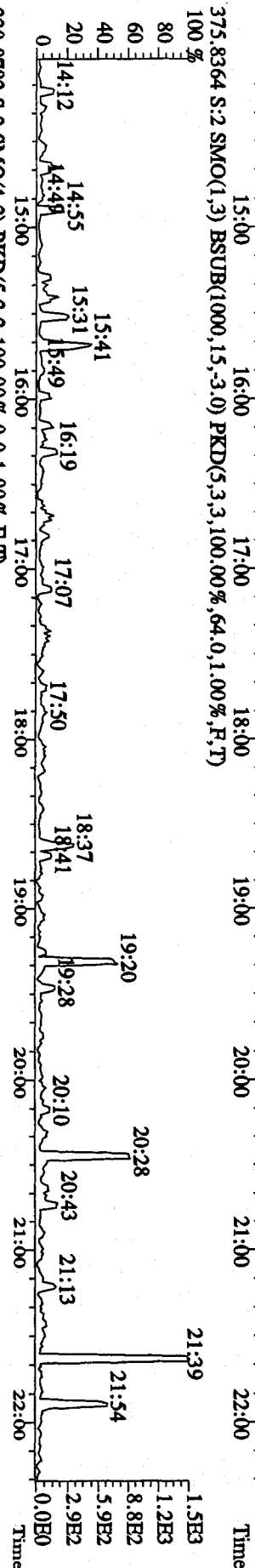
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2640,0,1,00%,F,T)



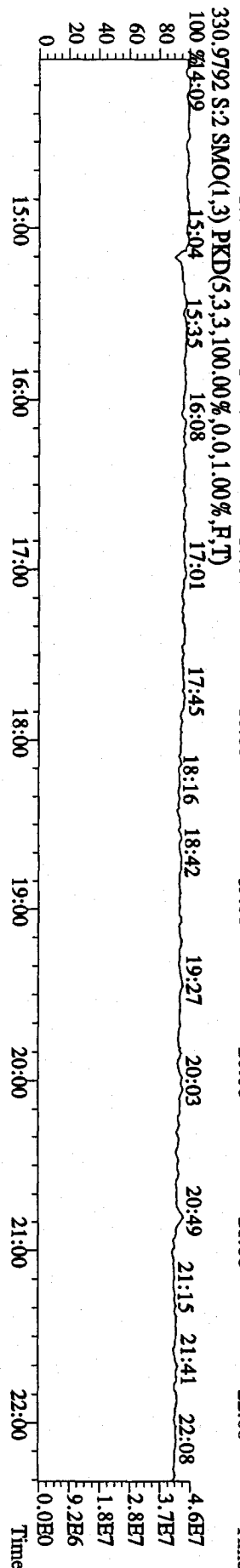
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2732,0,1,00%,F,T)



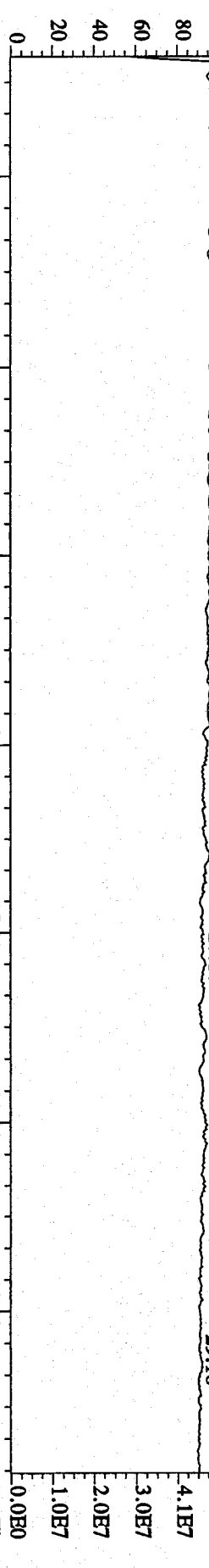
375.8364 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,64,0,1,00%,F,T)



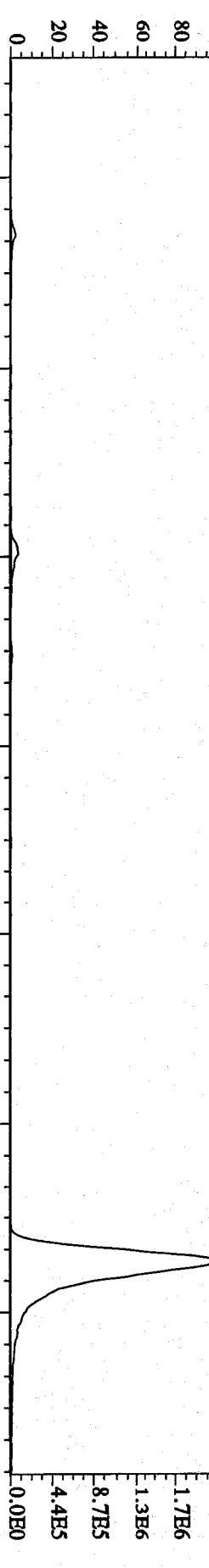
330.9792 S:2 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



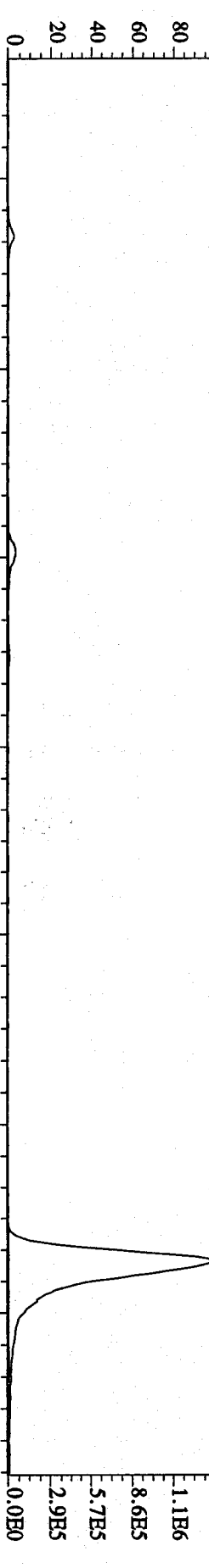
File: 23DB094D5 #1-597 Acq: 23-DEC-2009 09:29:45 GC HI+ Voltage SIR Autospec-UltimaB
 Sample# 2 Text: CP1223 :DB-5 CP5M 3732-03 Exp: DIOXIN
 342.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 22:48 23:34 24:12 24:50 25:14 25:42 26:36 27:10 27:34 28:01 29:18



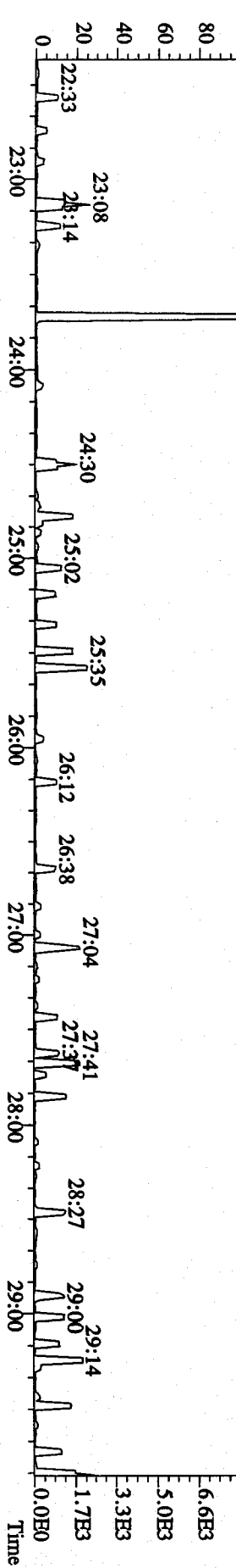
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2944,0,1,00%,F,T)
 100% 23:00 24:00 25:00 26:00 27:00 28:00 29:00



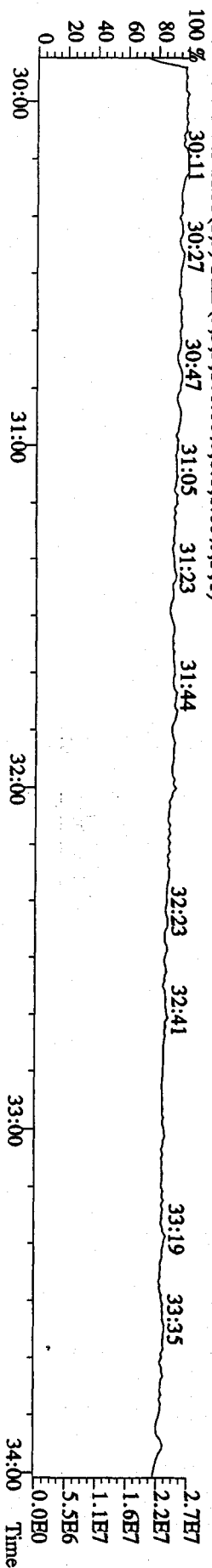
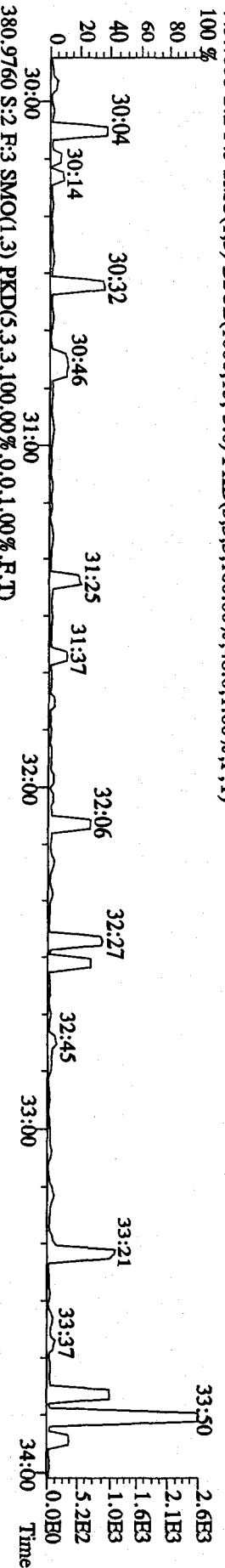
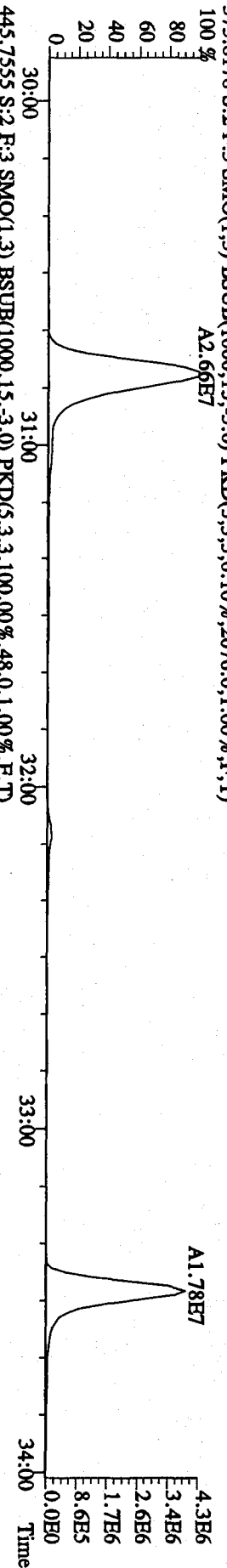
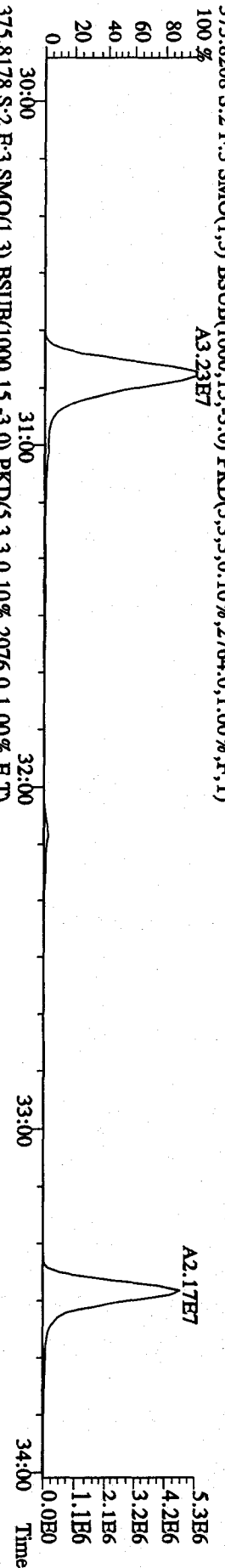
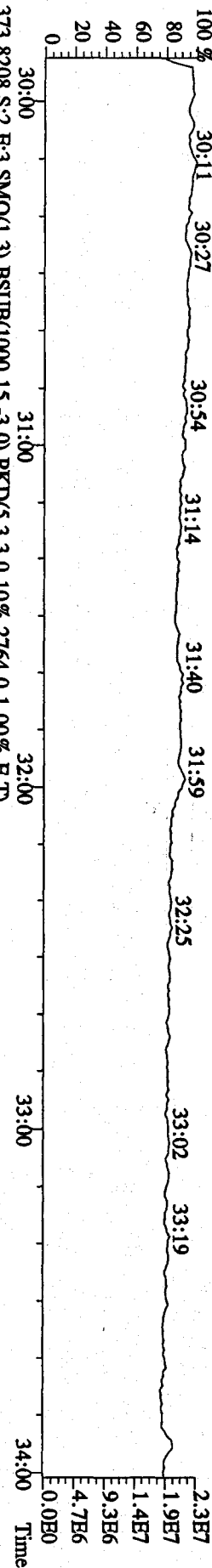
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2896,0,1,00%,F,T)
 100% 23:00 24:00 25:00 26:00 27:00 28:00 29:00

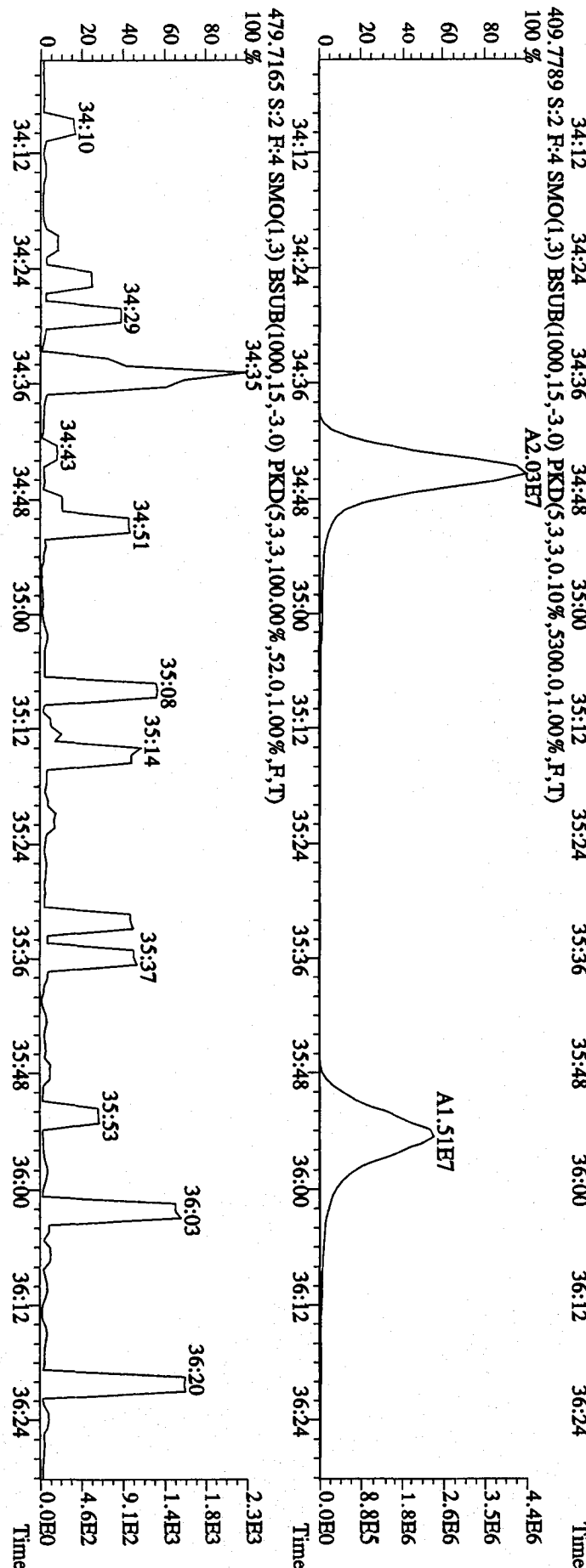
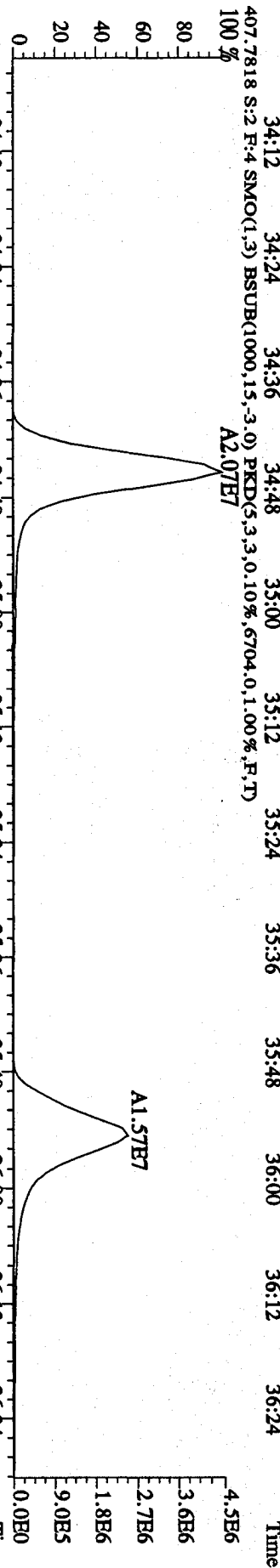
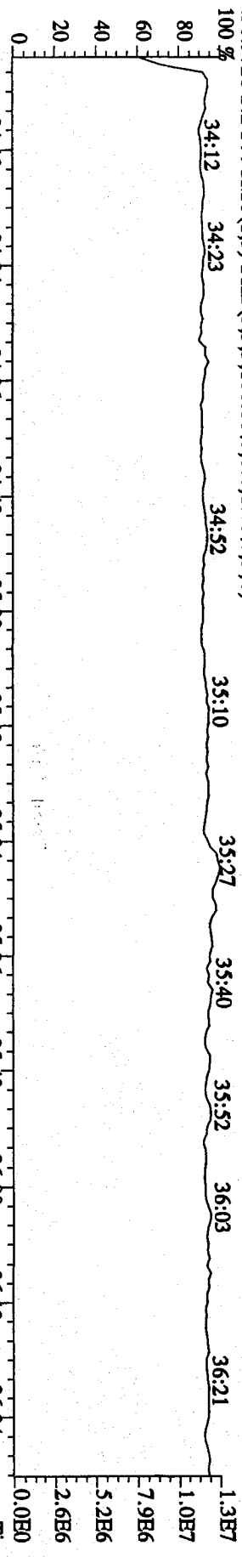


409.7974 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,52,0,1,00%,F,T)
 100% 23:00 24:00 25:00 26:00 27:00 28:00 29:00

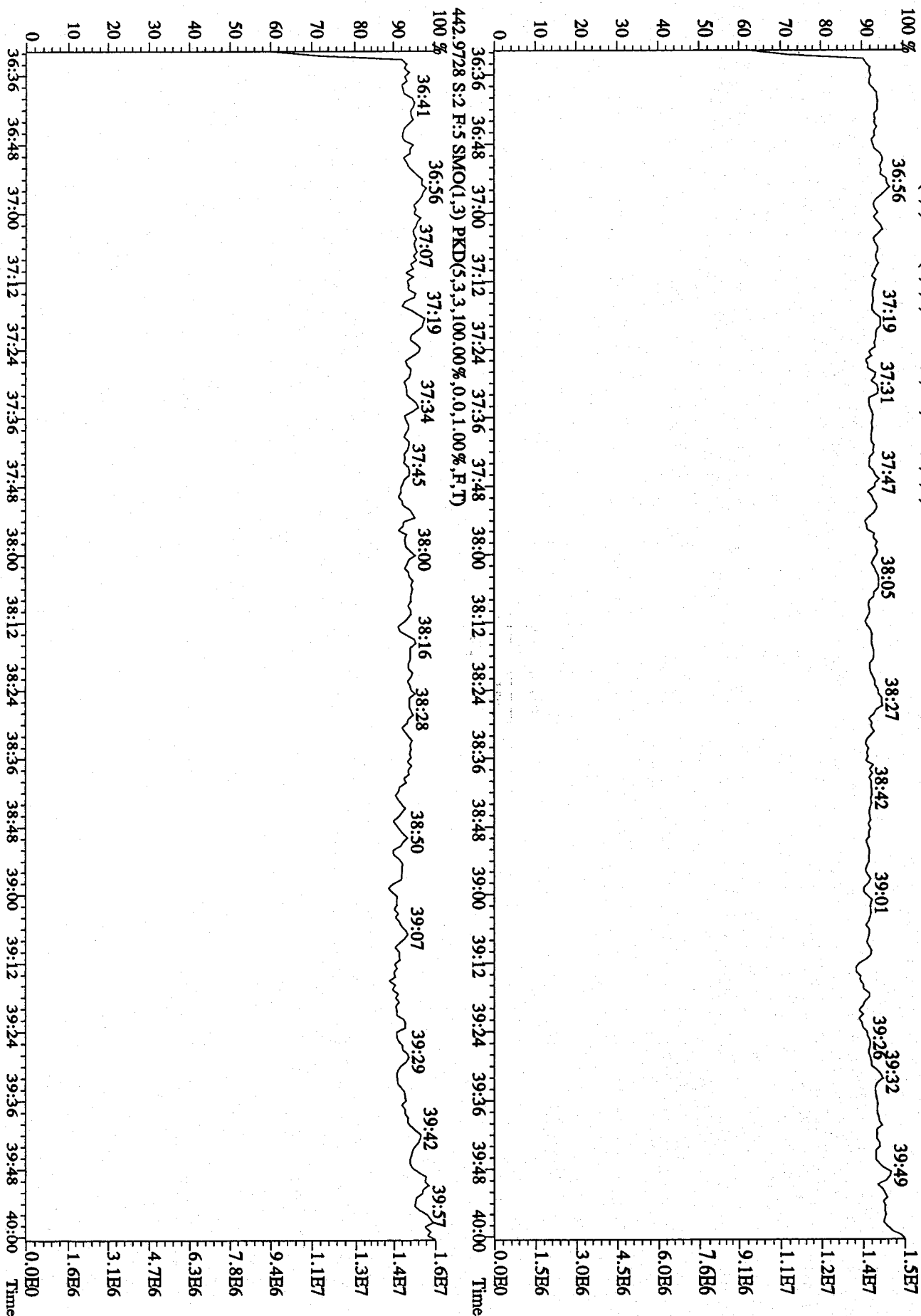


File: 23DE094D5 #1-314 Acq: 23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text: CP1223 :DB-5 CPSM 3732-03 Exp: DIOXIN
 392.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 380.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

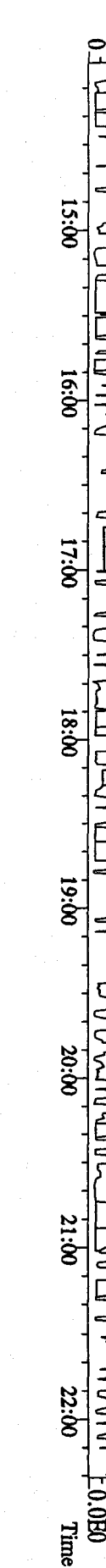
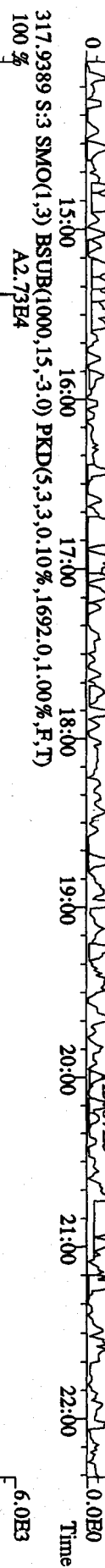
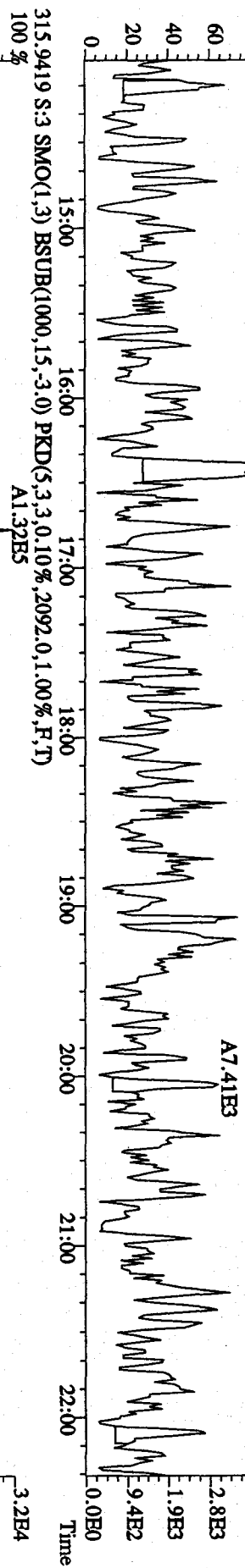
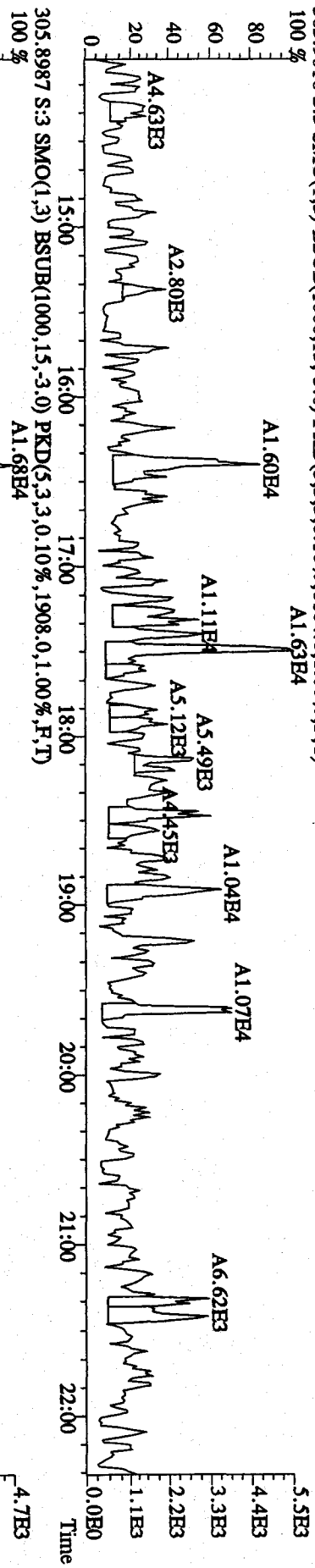




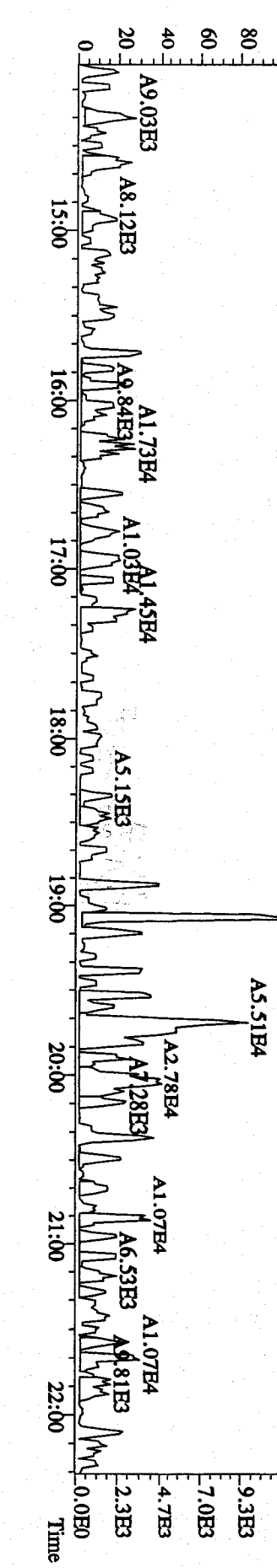
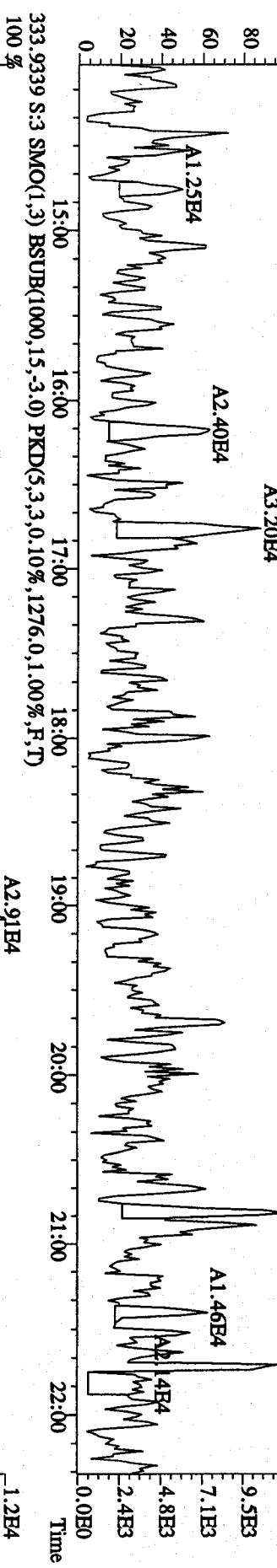
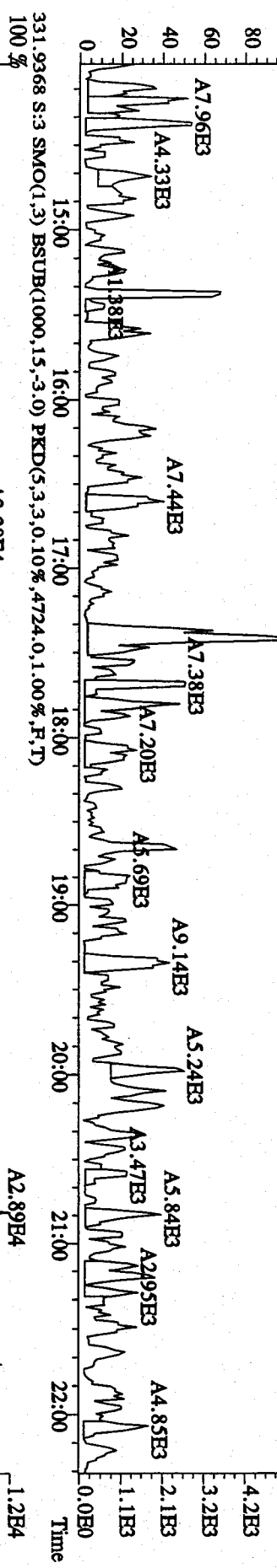
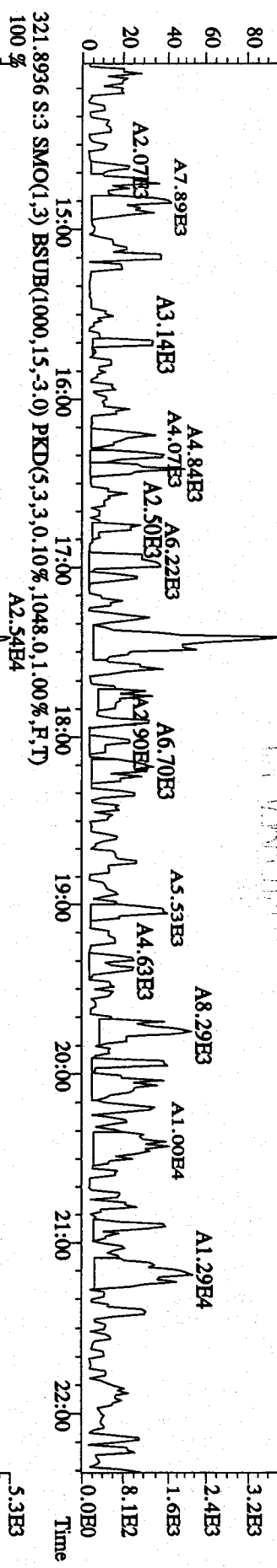
File: 23DBE094D5 #1-282 Acq: 23-DEC-2009 09:29:45 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text: CP1223 : DB-5 CPSM 3732-03 Exp: DIOXIN
 454.9728 S:2 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



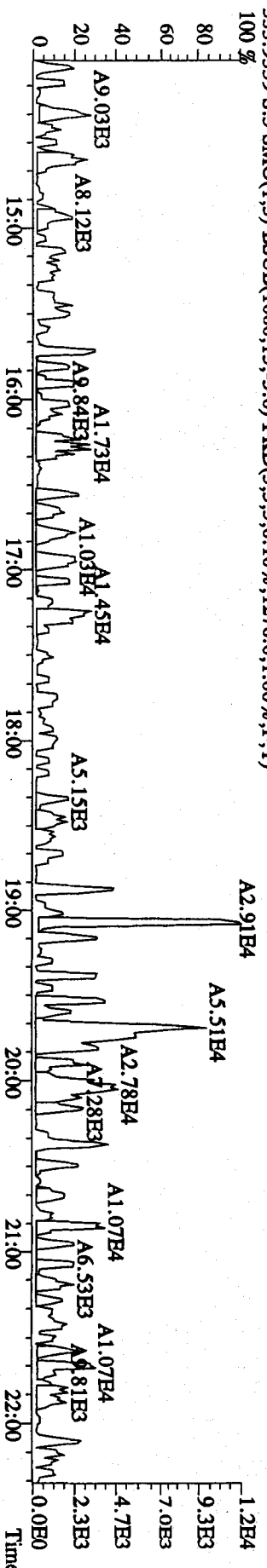
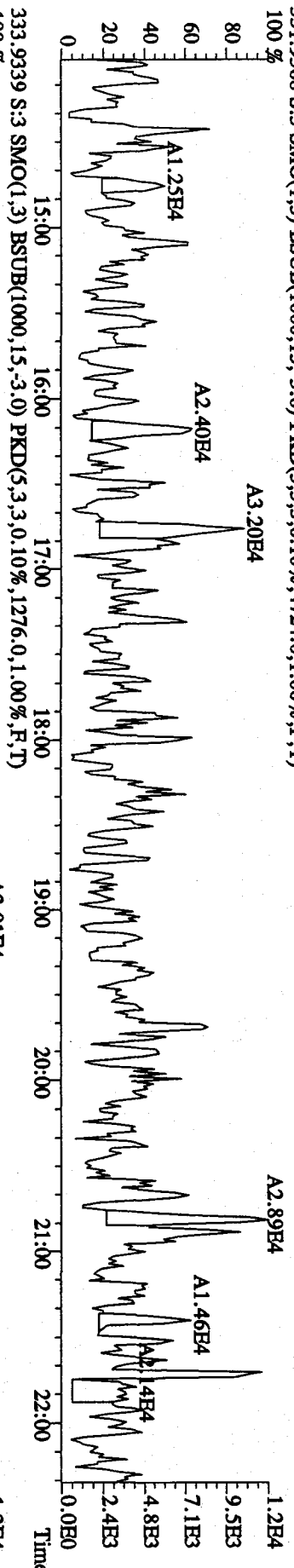
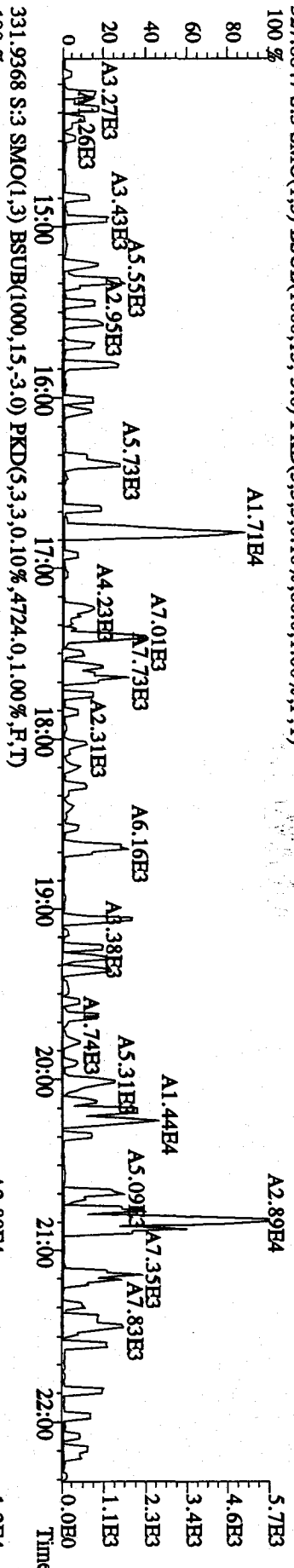
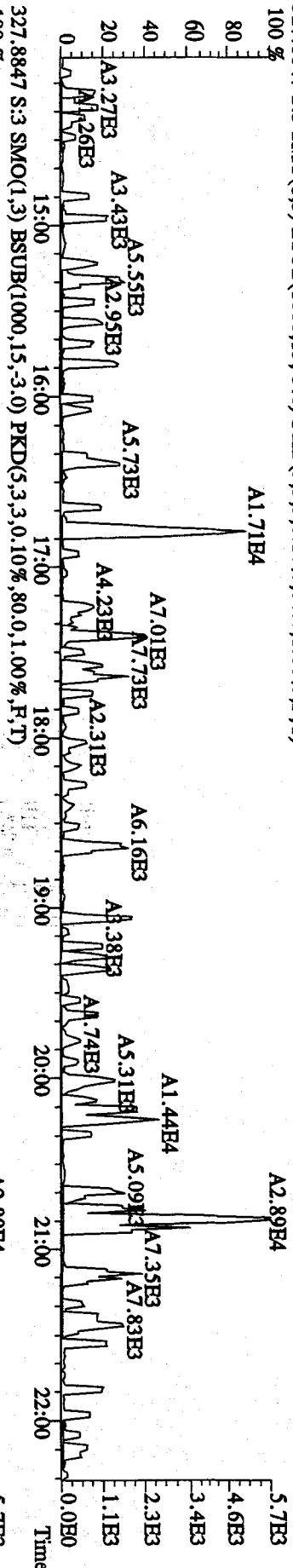
File:23DE094D5 #1-578 Acq:23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DIOXIN
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1184,0,1,00%,F,T)
 A1.63E4



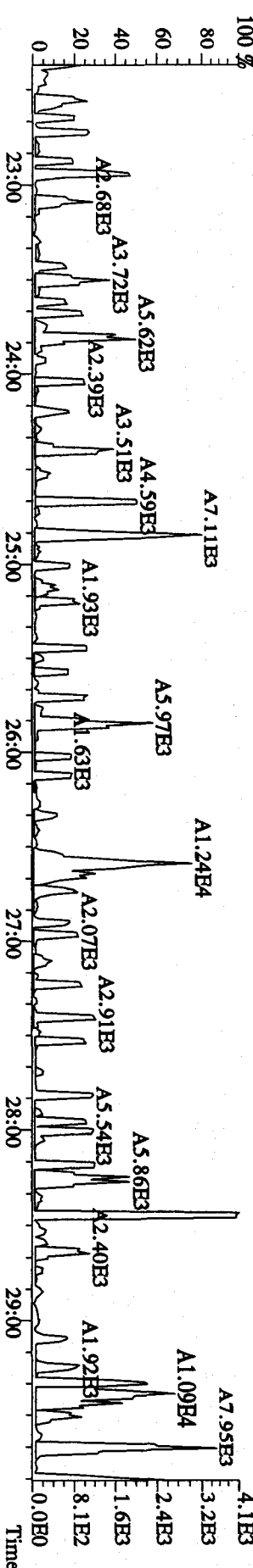
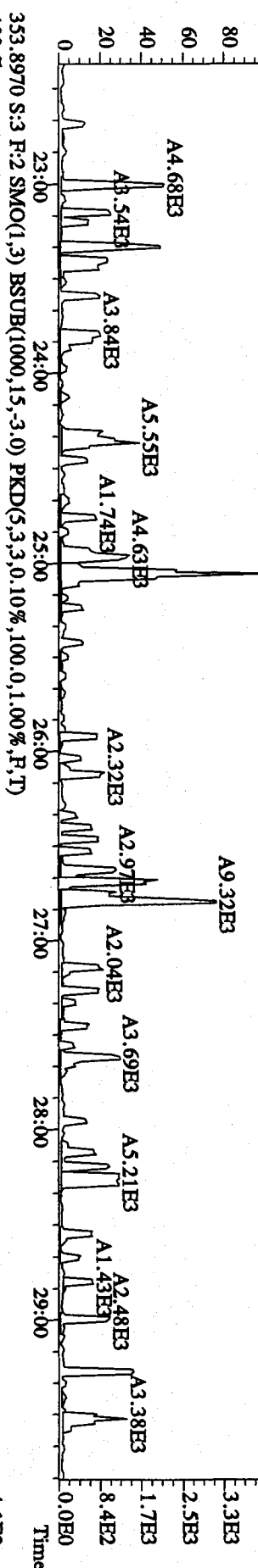
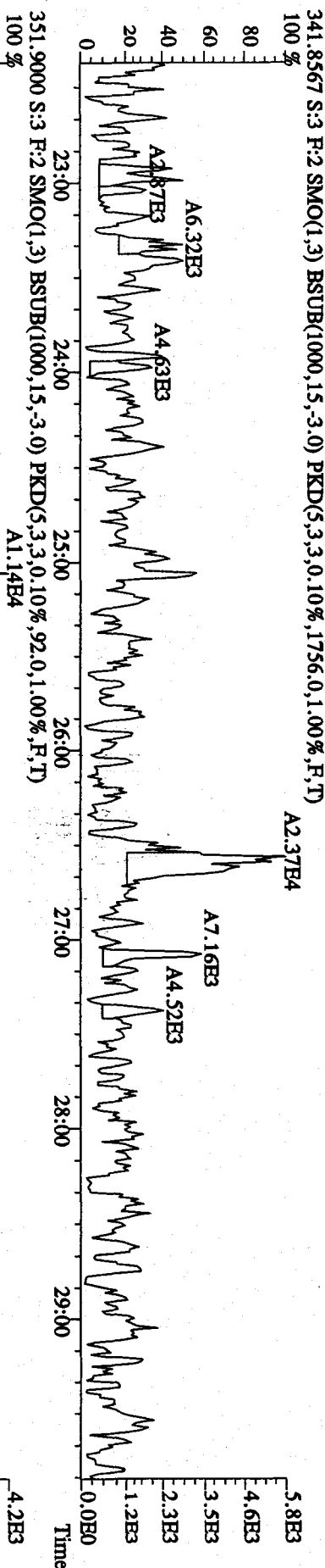
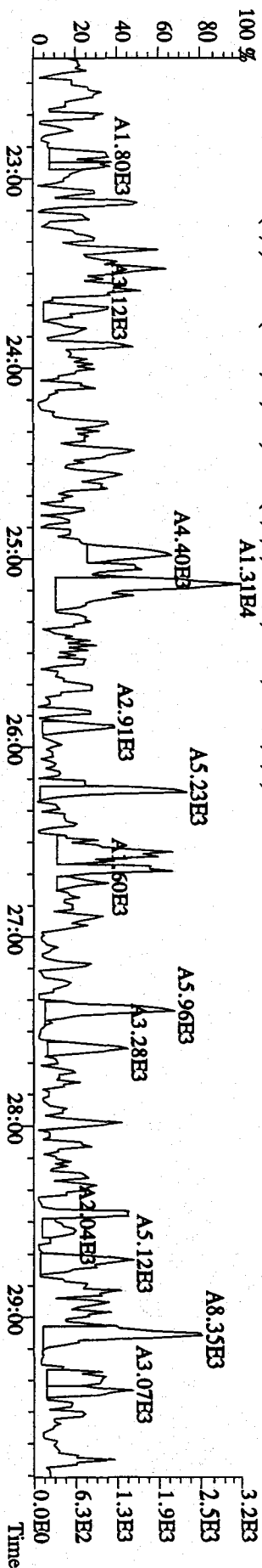
File: 23DBE094D5 #1-578 Acq: 23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text: SB1223 : Solvent Blank C-14 Exp: DIOXIN
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,772.0,1.00%,F,T)
 100%

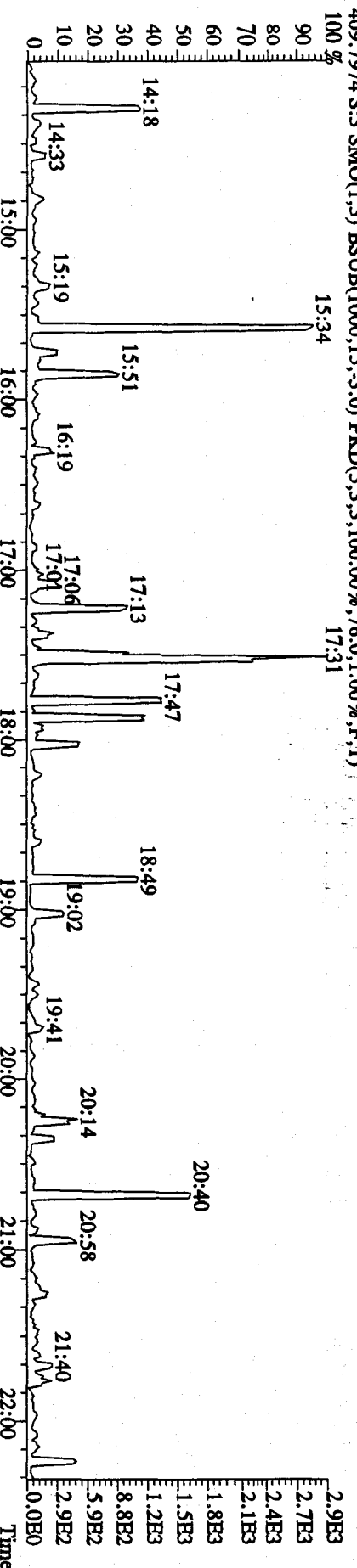
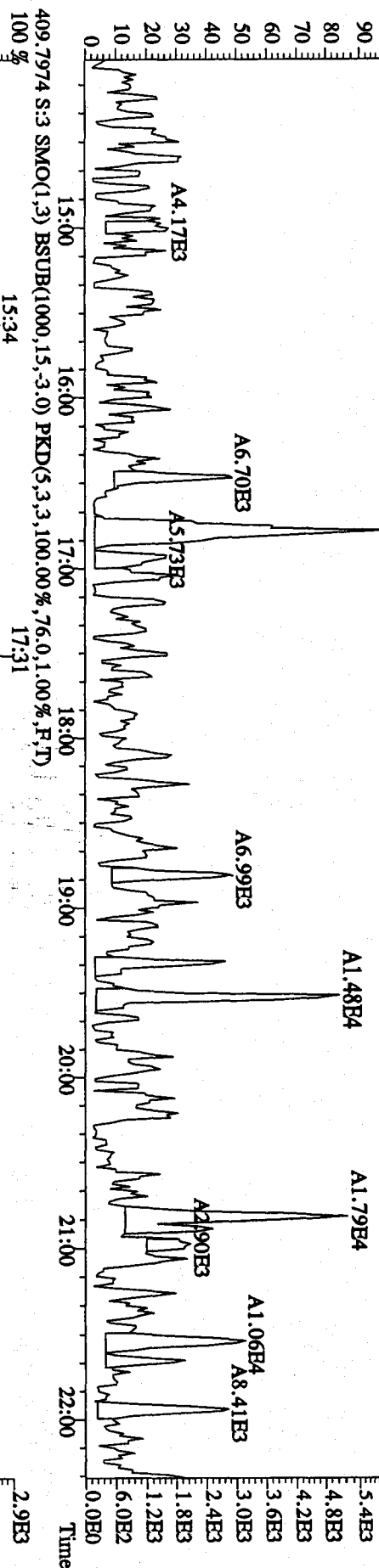
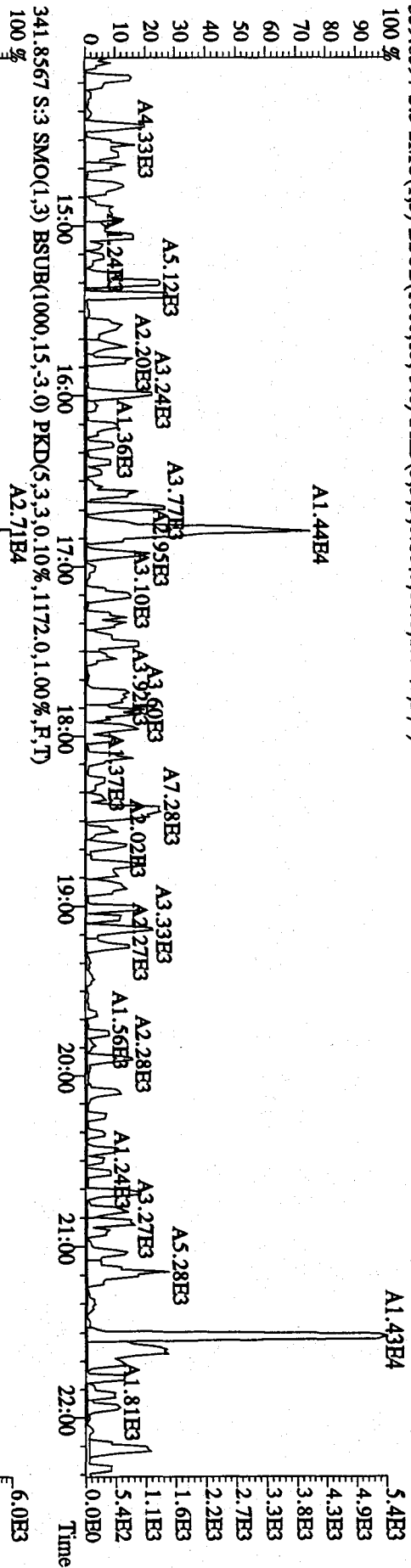


File: 23DB094D5 #1-578 Acq: 23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text: SB1223 : Solvent Blank C-14 Exp: DIOXIN
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.00%,F,T)



File: 23DDE094D5 #1-596 Acq: 23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text: SB1223 : Solvent Blank C-14 Exp: DIOXIN
 339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,840.0,1.00%,F,T)
 100 % A1.31E4

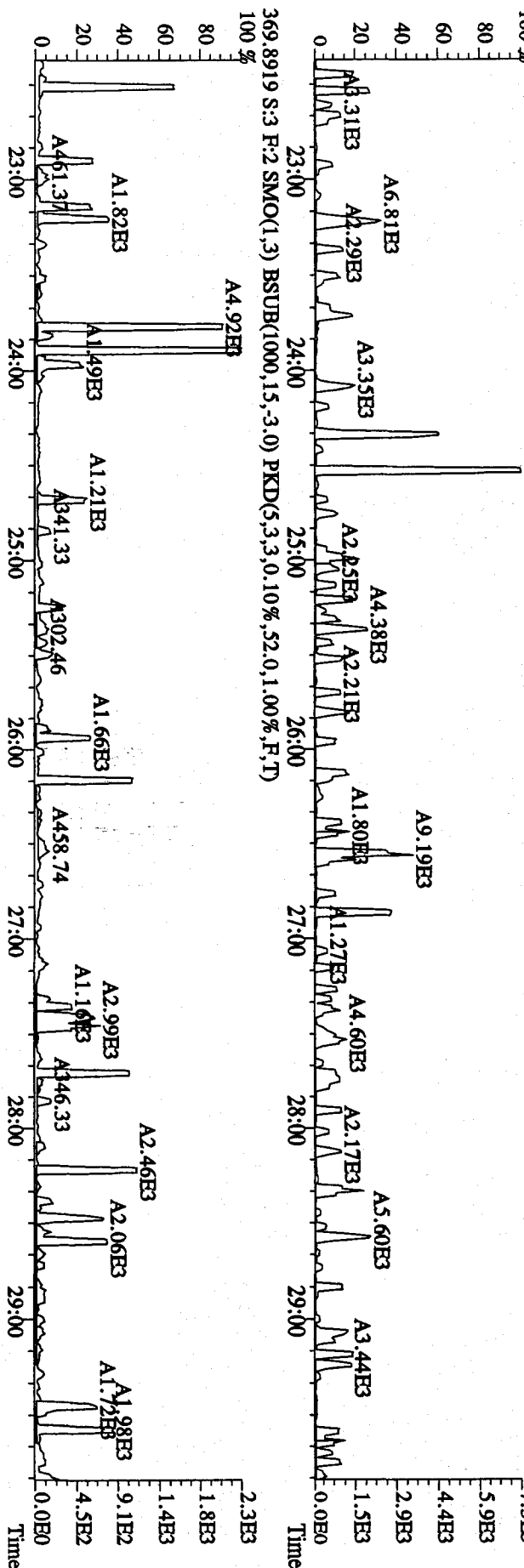
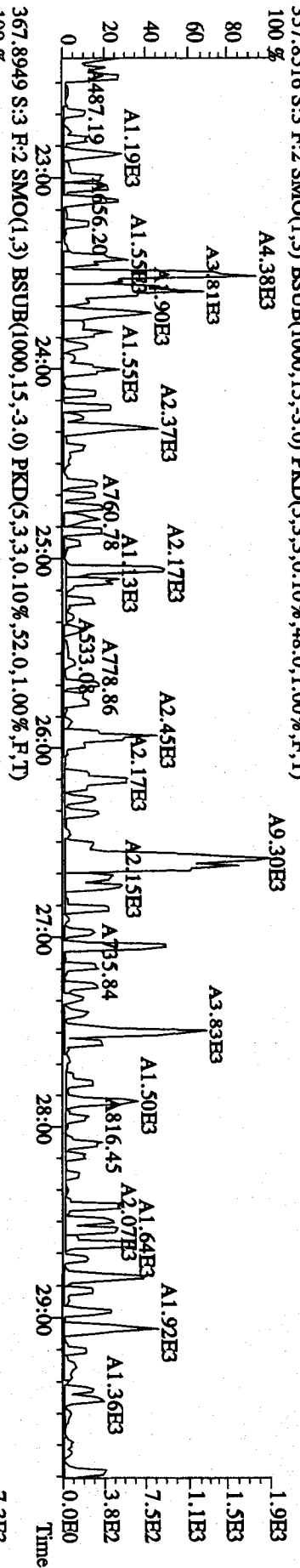
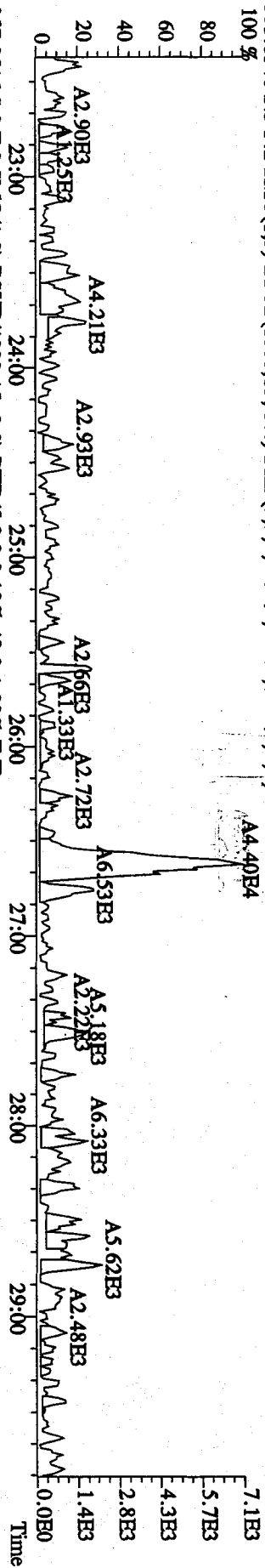




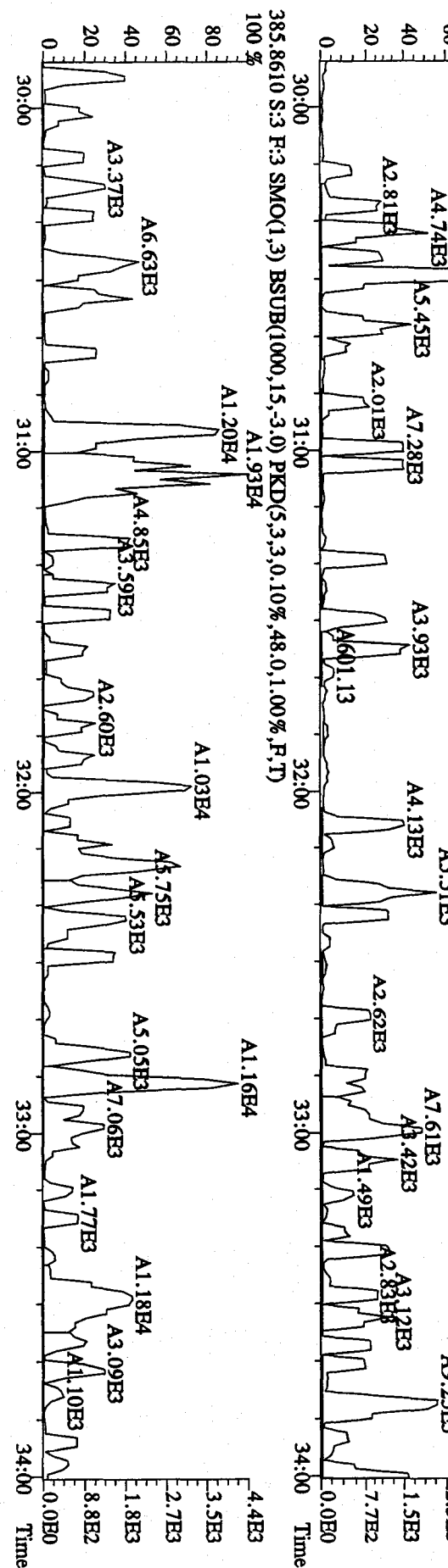
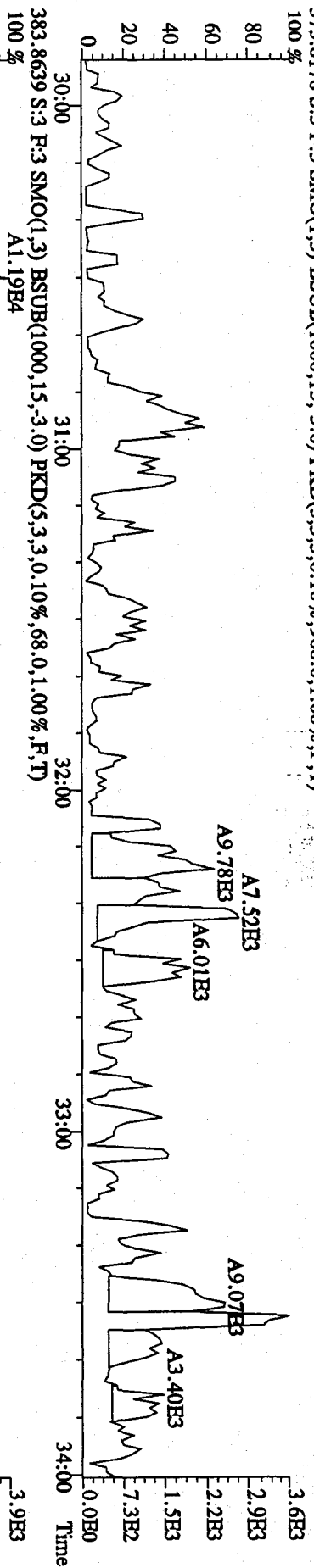
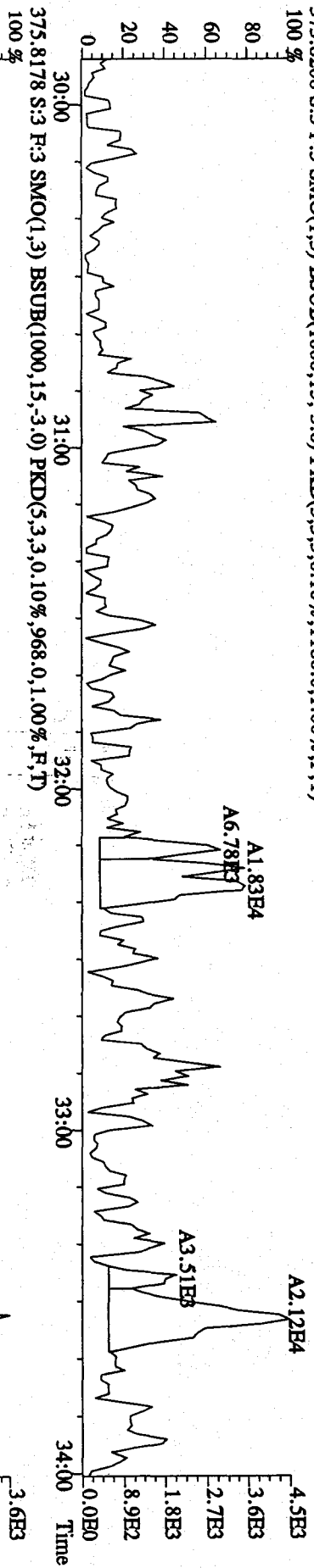
File:23DE094D5 #1-596 Acq:23-DBC-2009 10:13:48 GC EI + Voltage SIR Autospec-UltimaB

Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DIOXIN

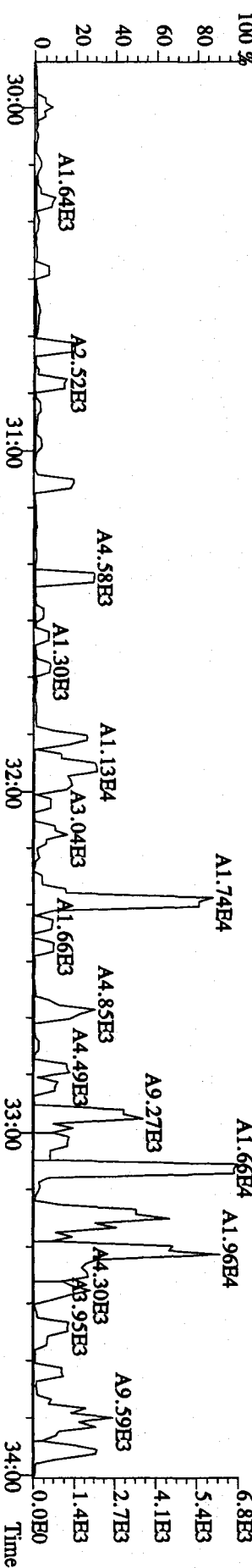
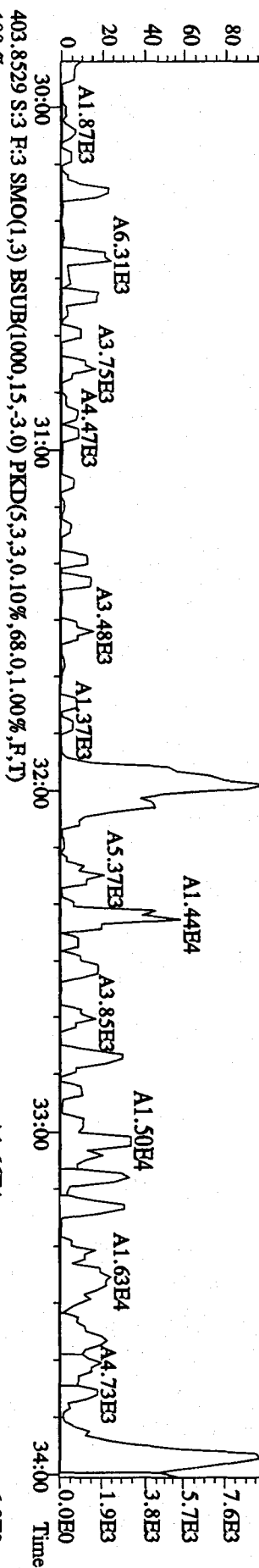
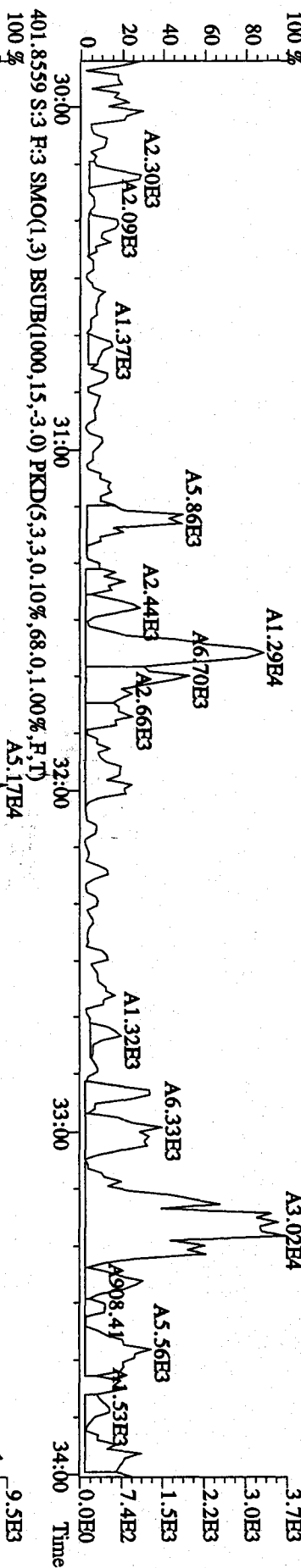
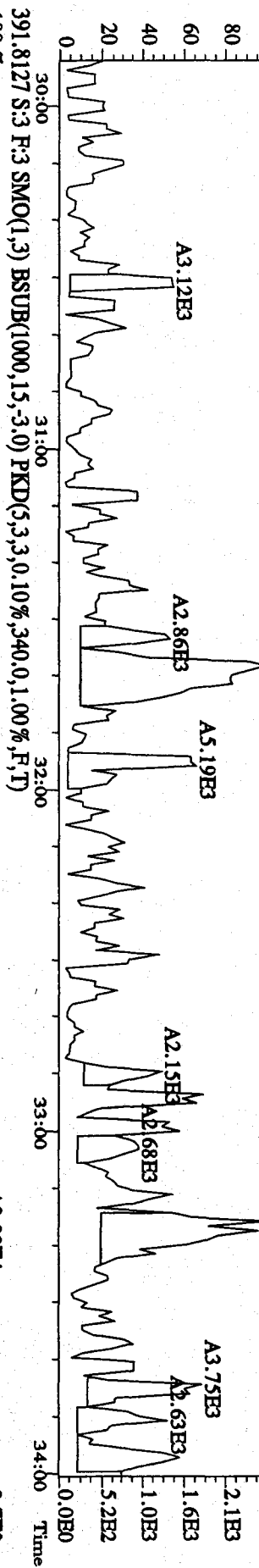
357.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,460.0,1.00%,F,T)



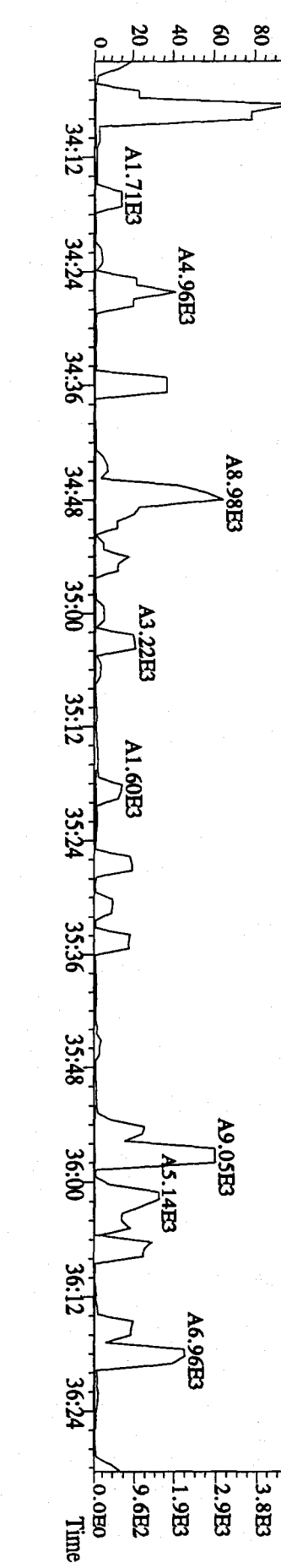
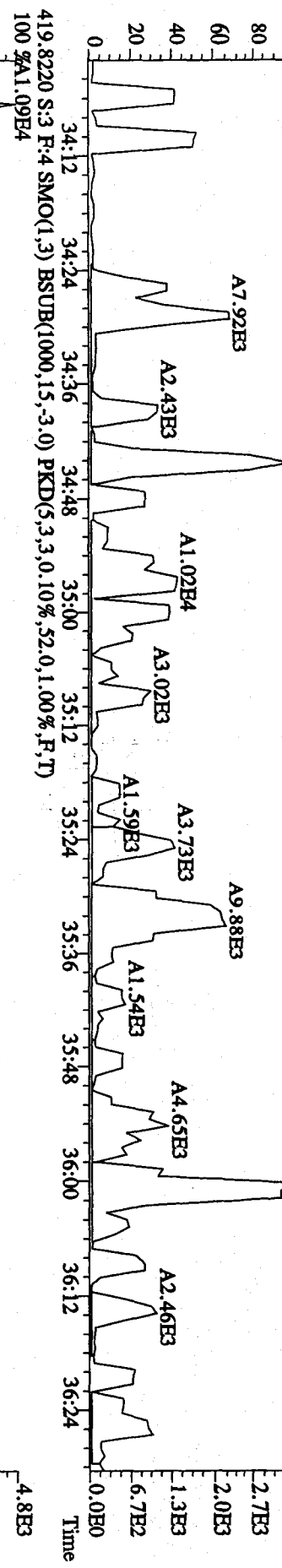
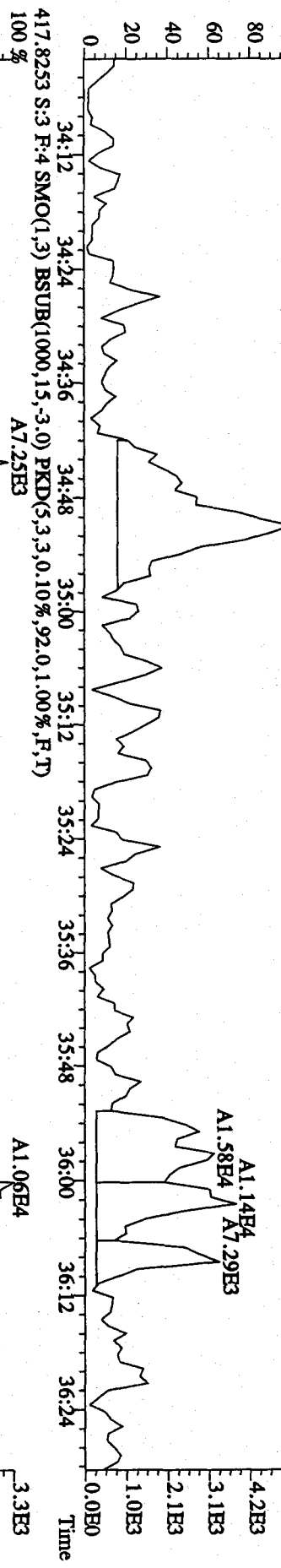
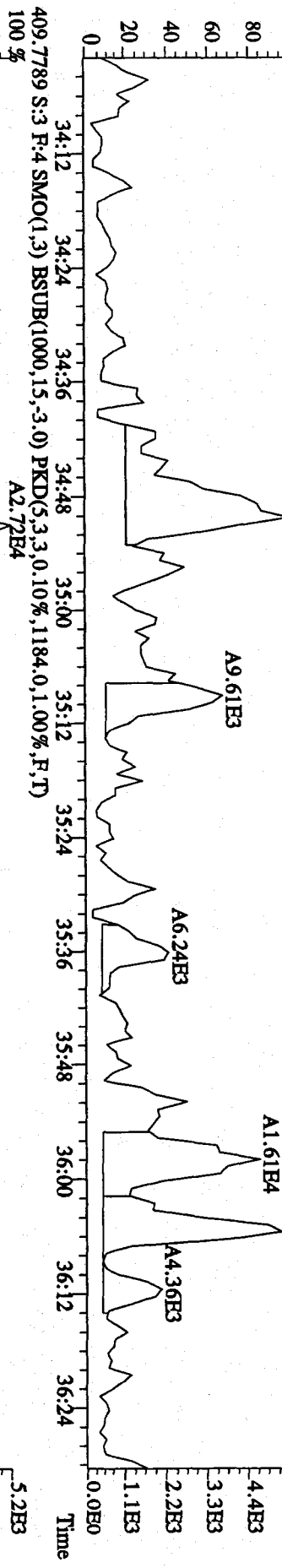
File:23DDE094D5 #1-314 Acq:23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DIOXIN
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1180.0,1.00%,F,T)



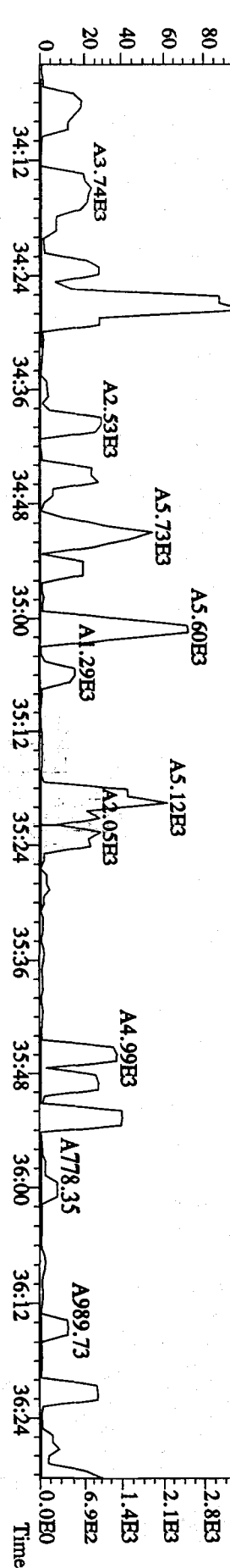
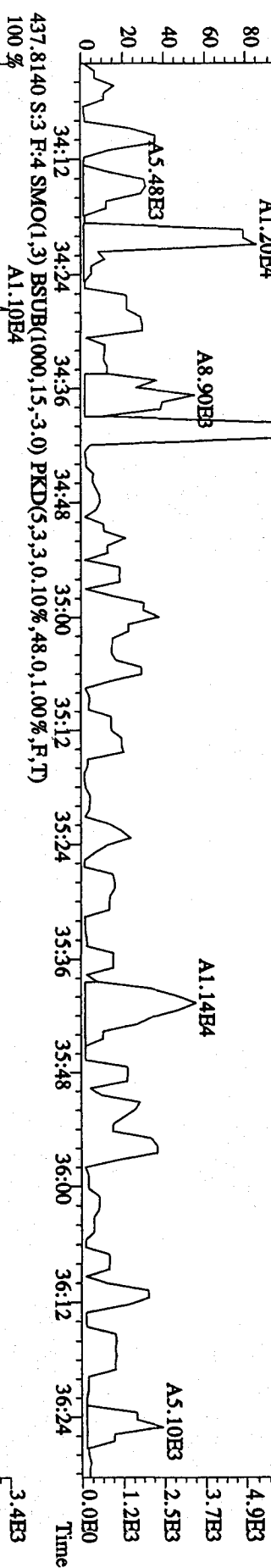
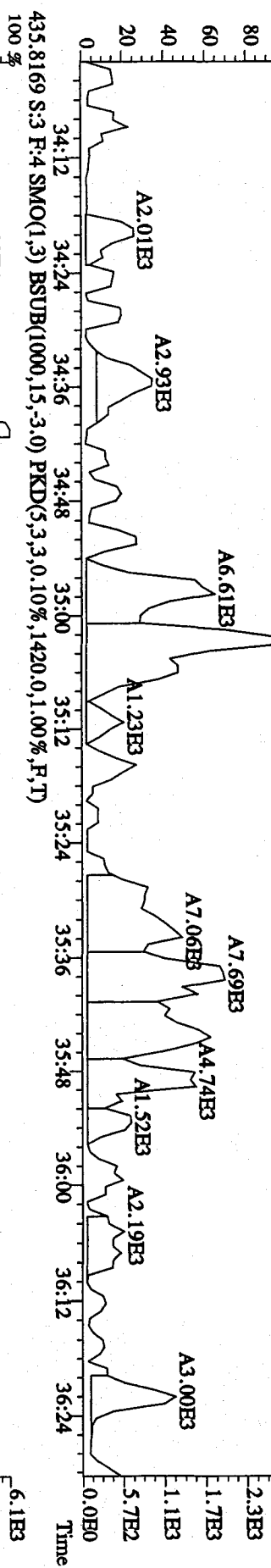
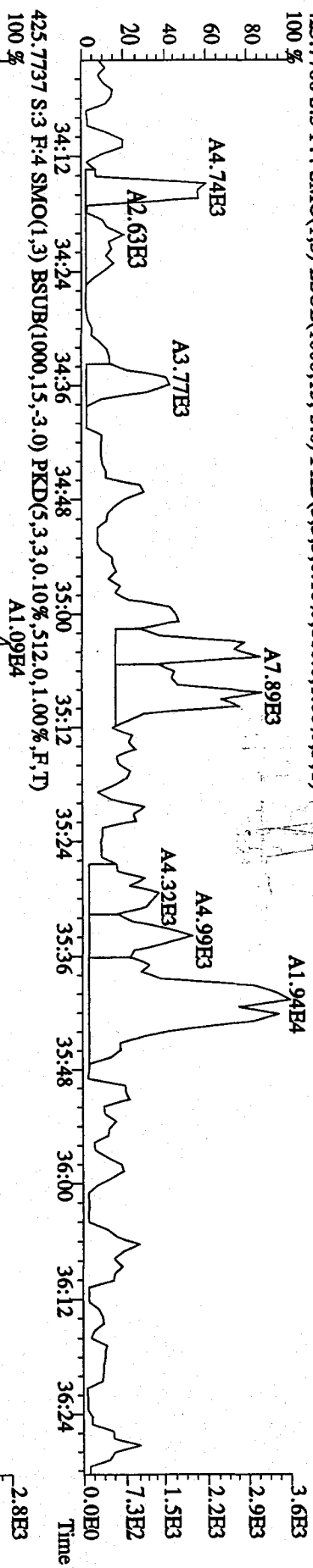
File:23DE094D5 #1-314 Acq:23-DEC-2009 10:13:48 GC EI+ Voltage SFR Autospec-Ultimate
Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DIOXIN
389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,736,0,1,00%,F,T)
100 %



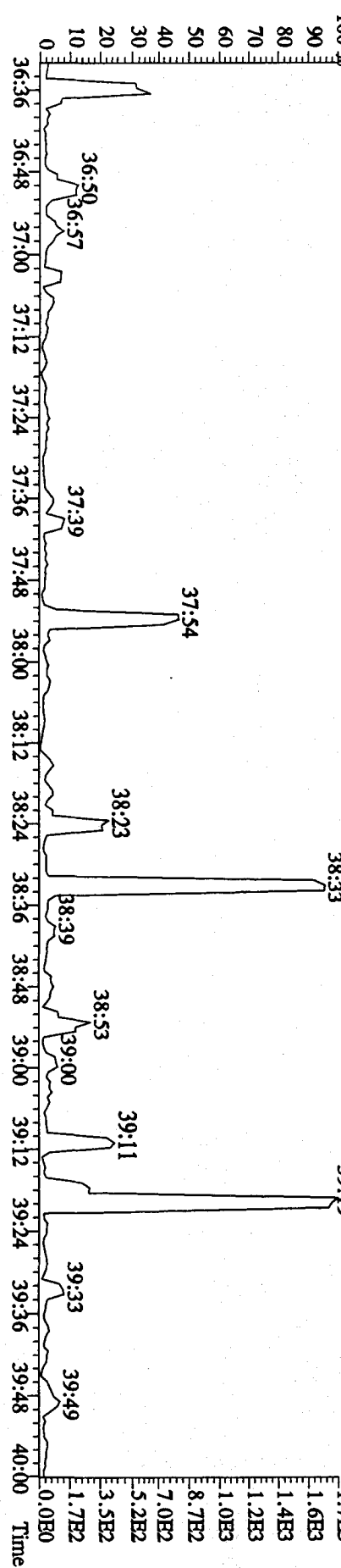
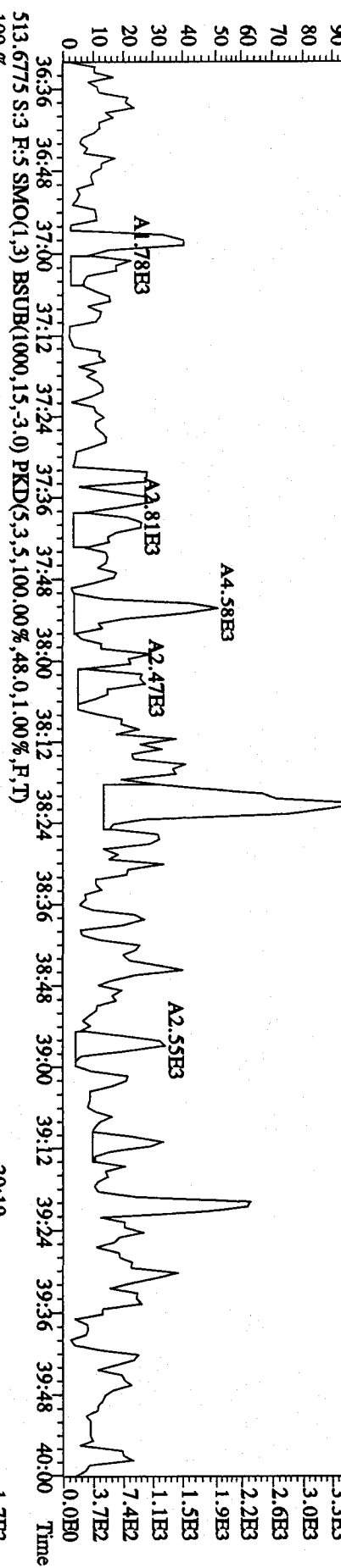
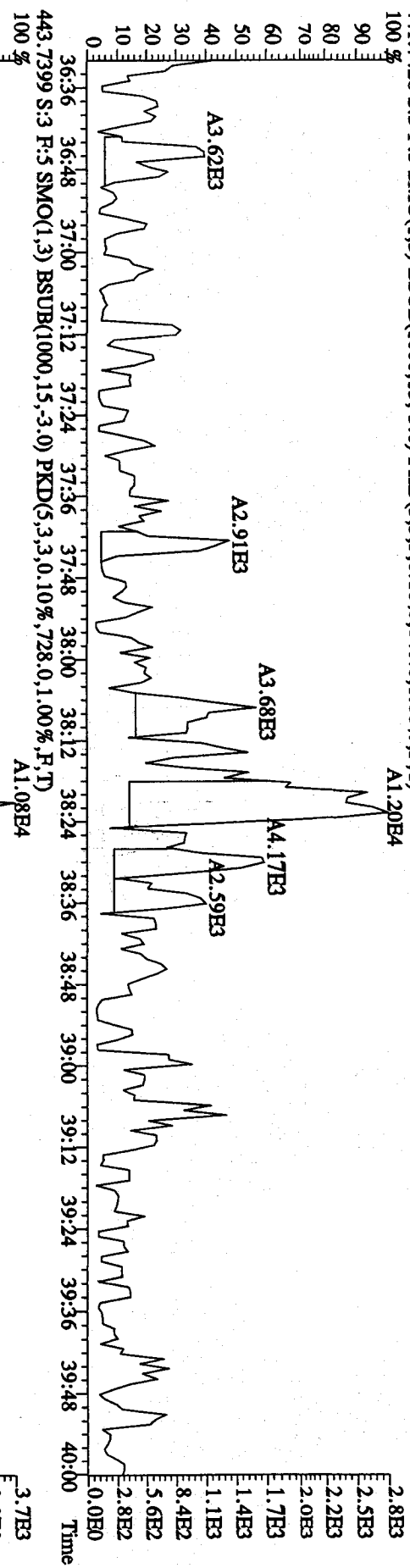
File: 23DBE094D5 #1-198 Acq: 23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text: SB1223 :Solvent Blank C-14 Exp: DIOXIN
 407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164,0,1.00%,F,T)
 100% A2.16E4



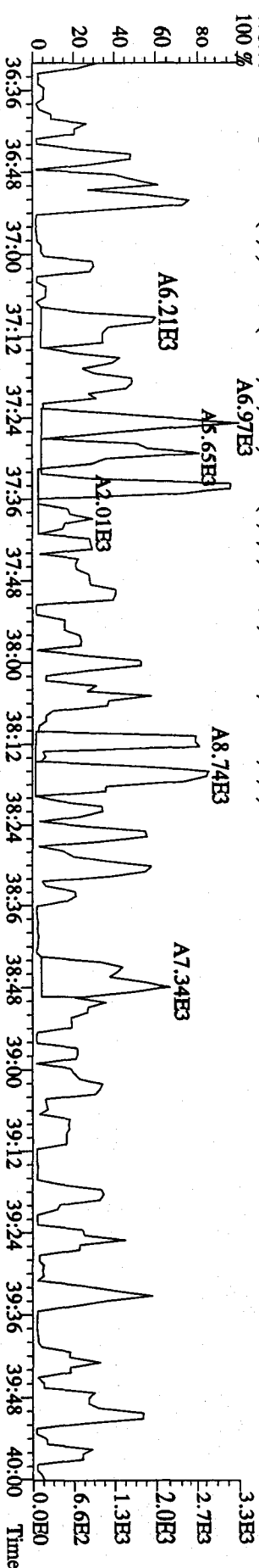
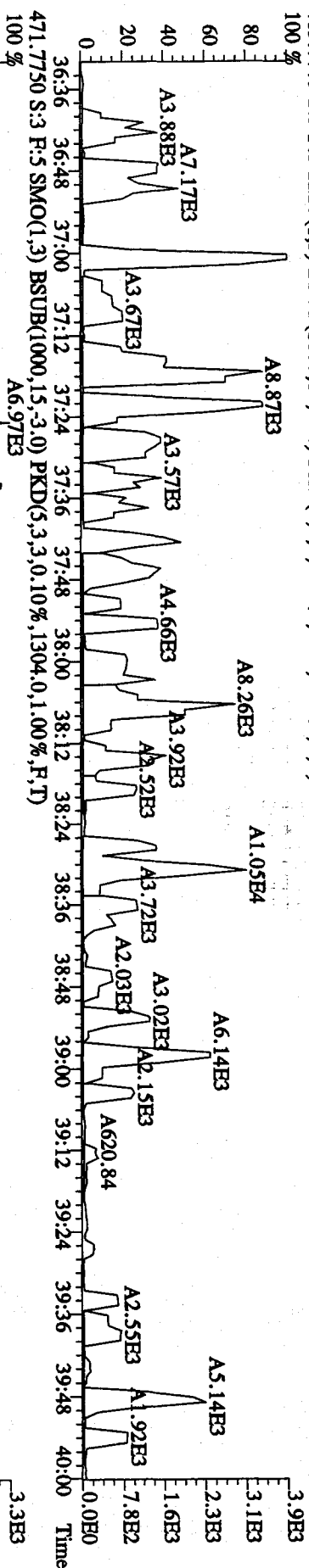
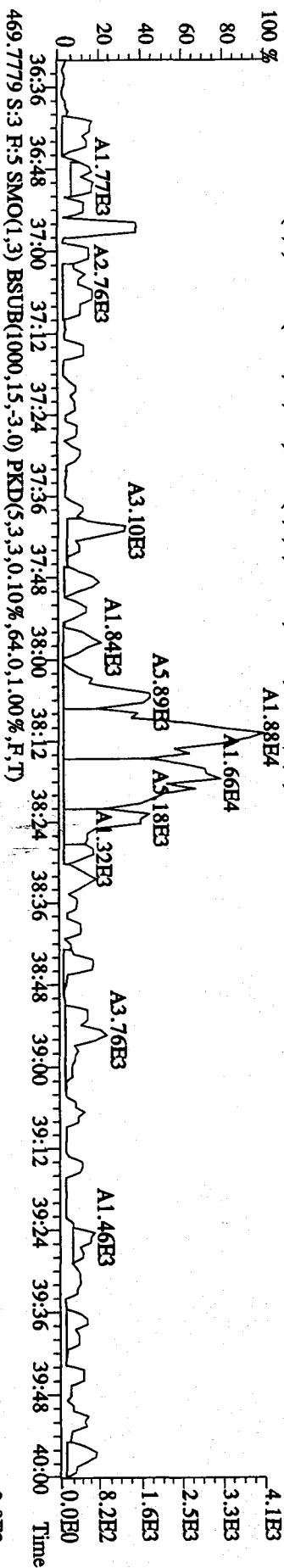
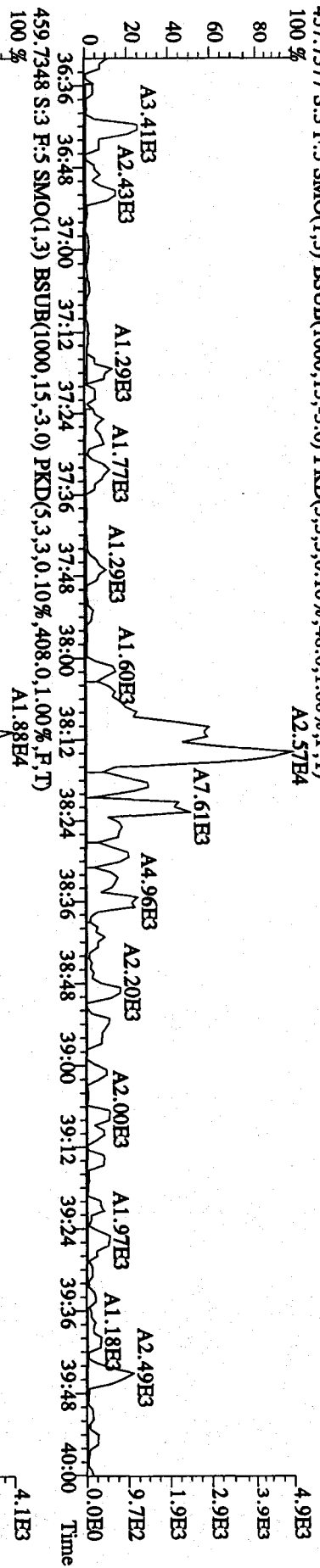
File:23DE094D5 #1-198 Acq:23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DIOXIN
 423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,660.0,1.00%,F,T)



File:23DE094D5 #1-281 Acq:23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DIOXIN
 441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,640.0,1.00%,F,T)
 100%

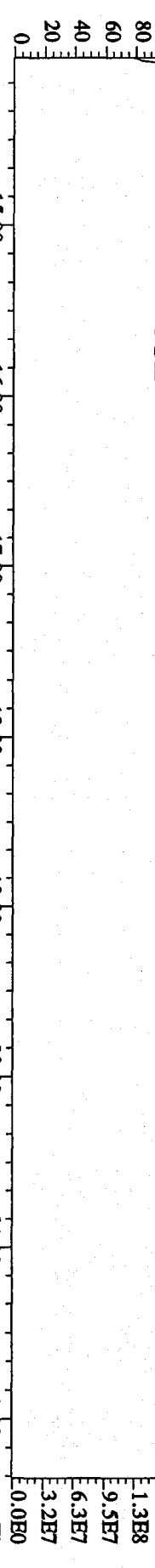


File:23DE094D5 #1-281 Acq:23-DEC-2009 10:13:48 GC FI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DIOXIN
 457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48,0.1,00%,F,T) A2.57E4

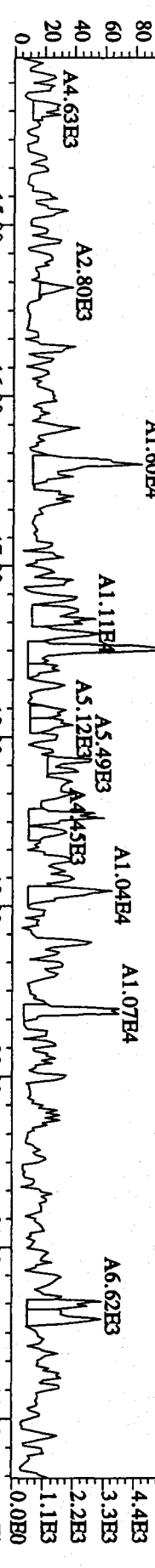


Sample#3 Text: SB1223 : Solvent Blank C-14 Exp: DIOXIN

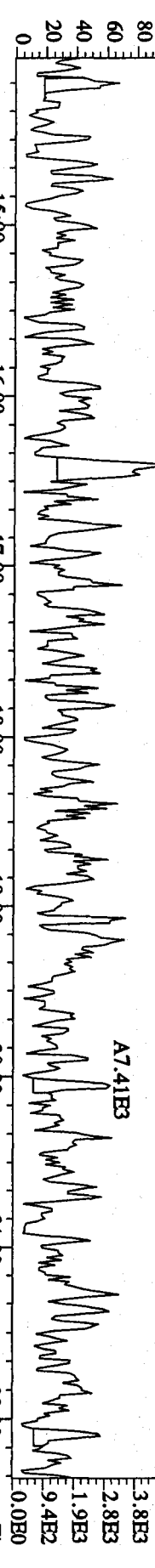
292.9825 S:3 SMO(1,3) PKD(5,3,5,100.00%,0,0,1.00%,F,T)



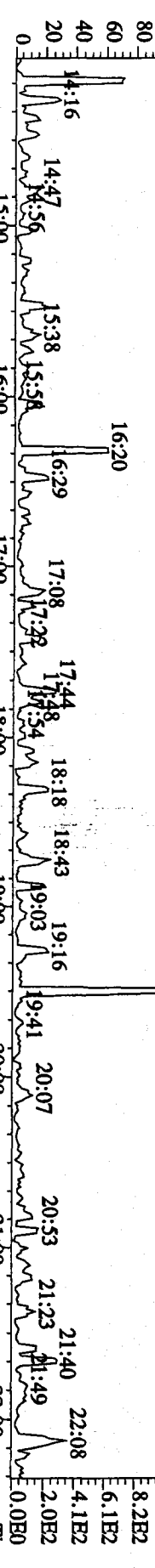
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1184,0,1.00%,F,T)



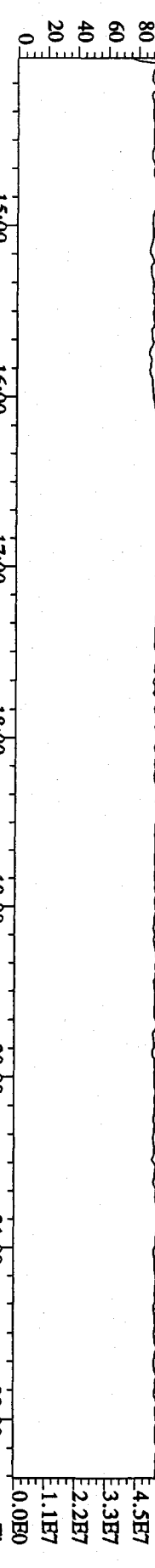
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1908,0,1.00%,F,T)



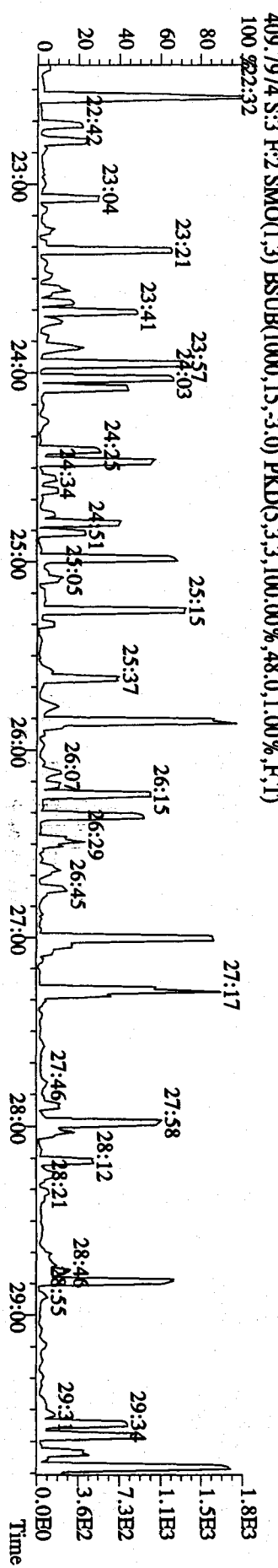
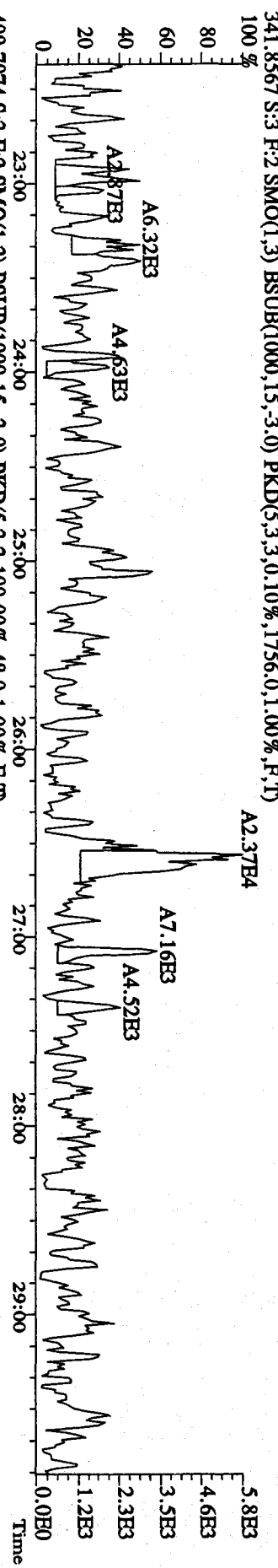
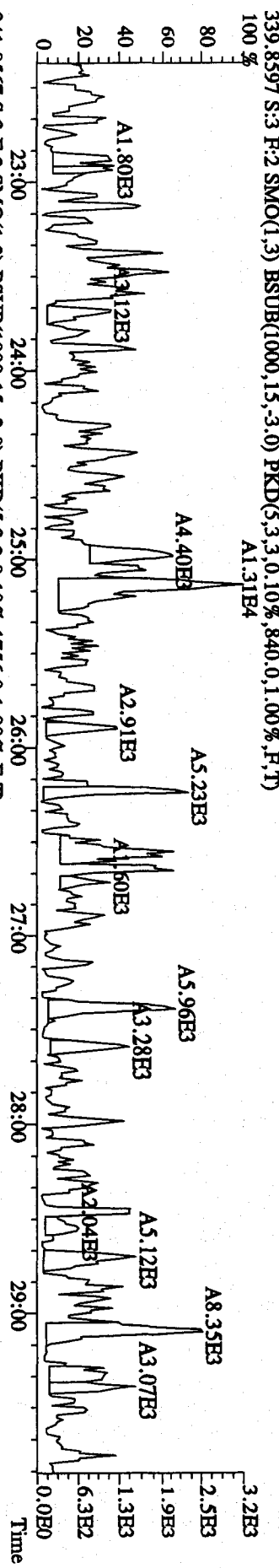
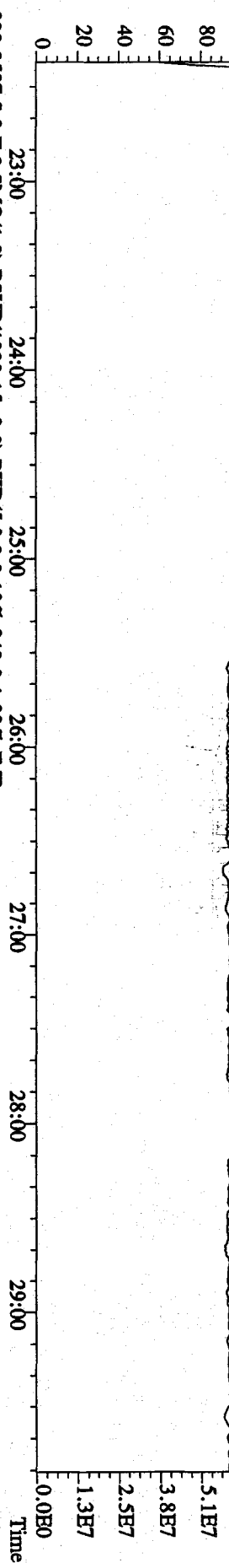
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,60,0,1.00%,F,T)



330.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)



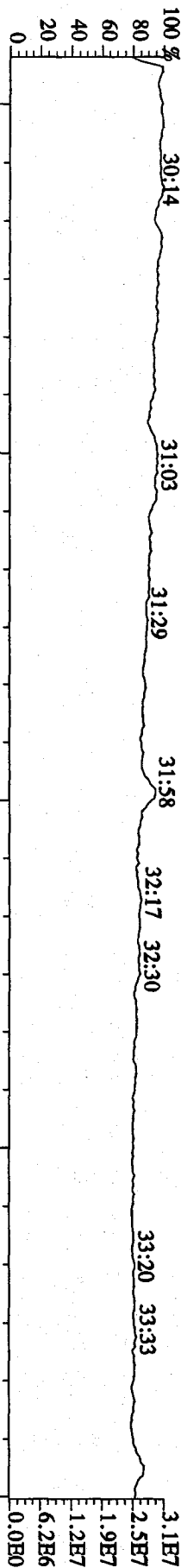
File:23DE094D5 #1-596 Acq:23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DIOXIN
 342.9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 22:50 23:22 23:48 24:35 25:16 25:46 26:35 27:05 27:28 28:02 28:27 29:06 29:28



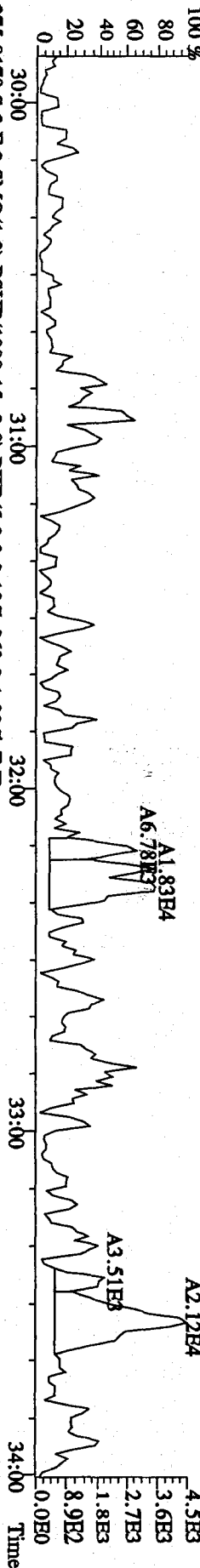
File:23DE094D5 #1-314 Acq:23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-Ultimate

Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DIOXIN

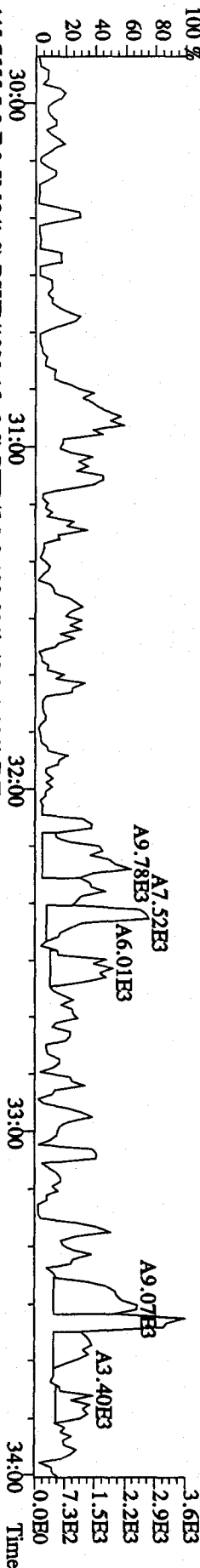
392.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



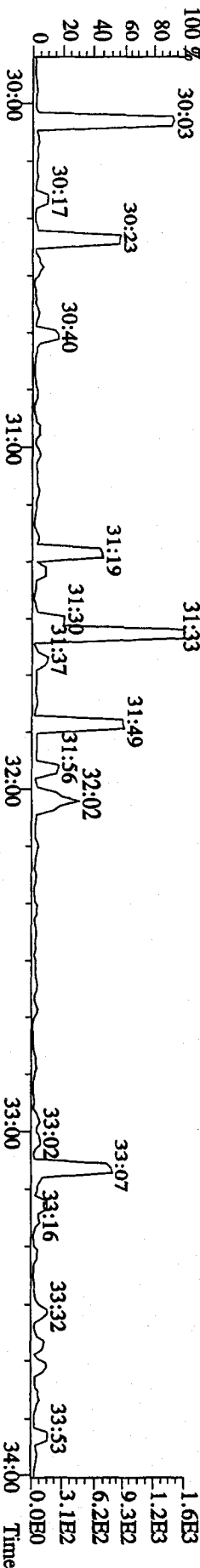
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1180.0,1.00%,F,T)



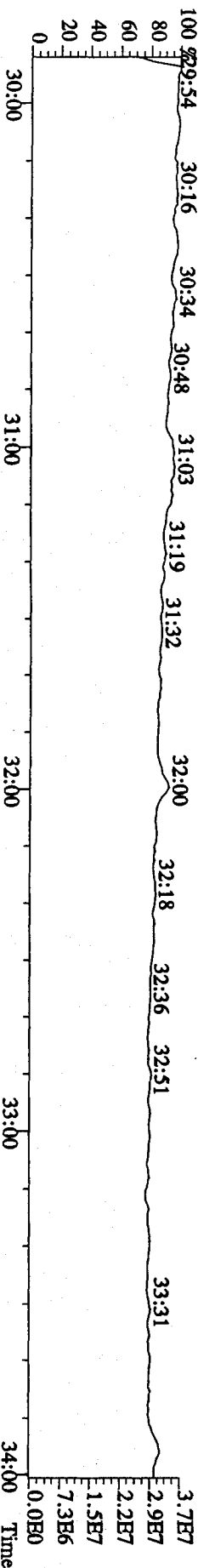
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,968.0,1.00%,F,T)



445.7555 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,48.0,1.00%,F,T)



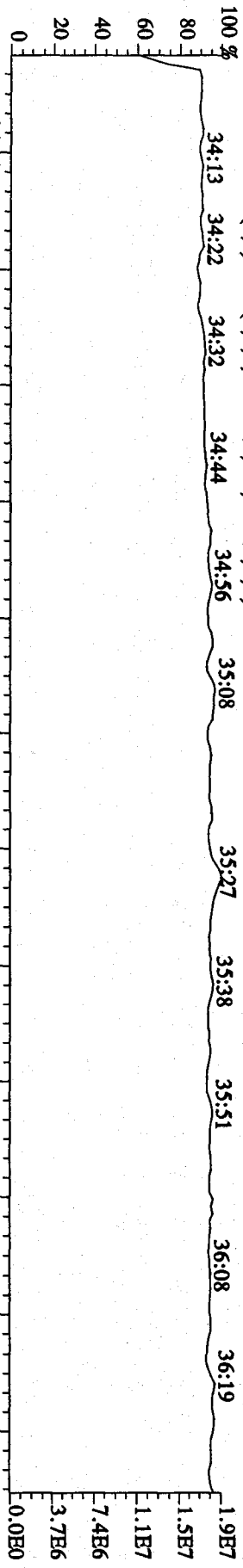
380.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



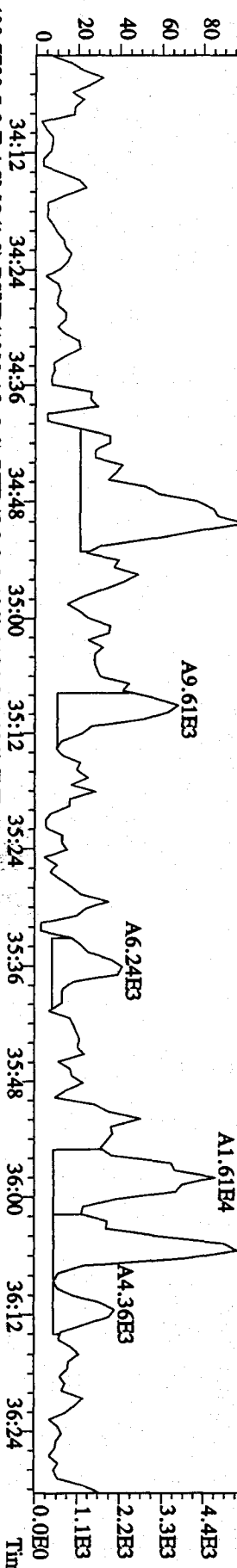
File: 23DE094D5 #1-198 Acq: 23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-UltimaE

Sample#3 Text: SB1223 : Solvent Blank C-14 Exp: DIOXIN

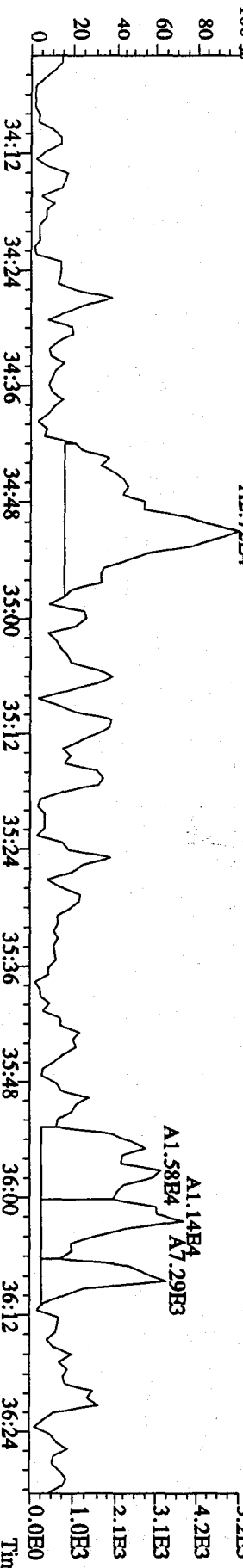
430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



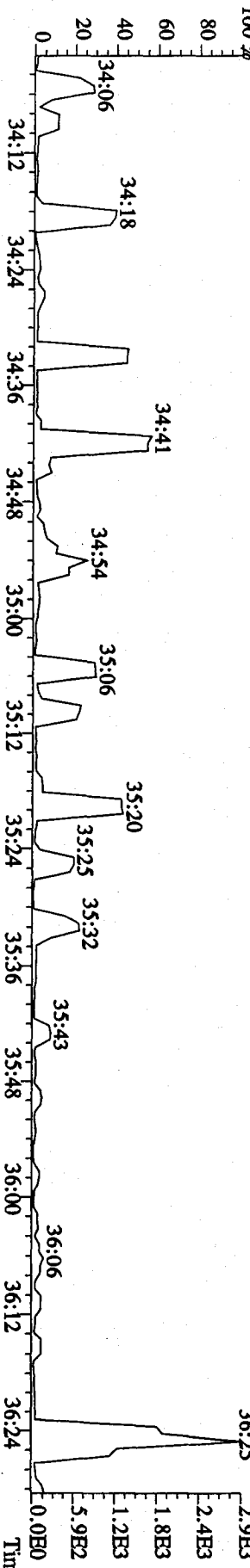
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)



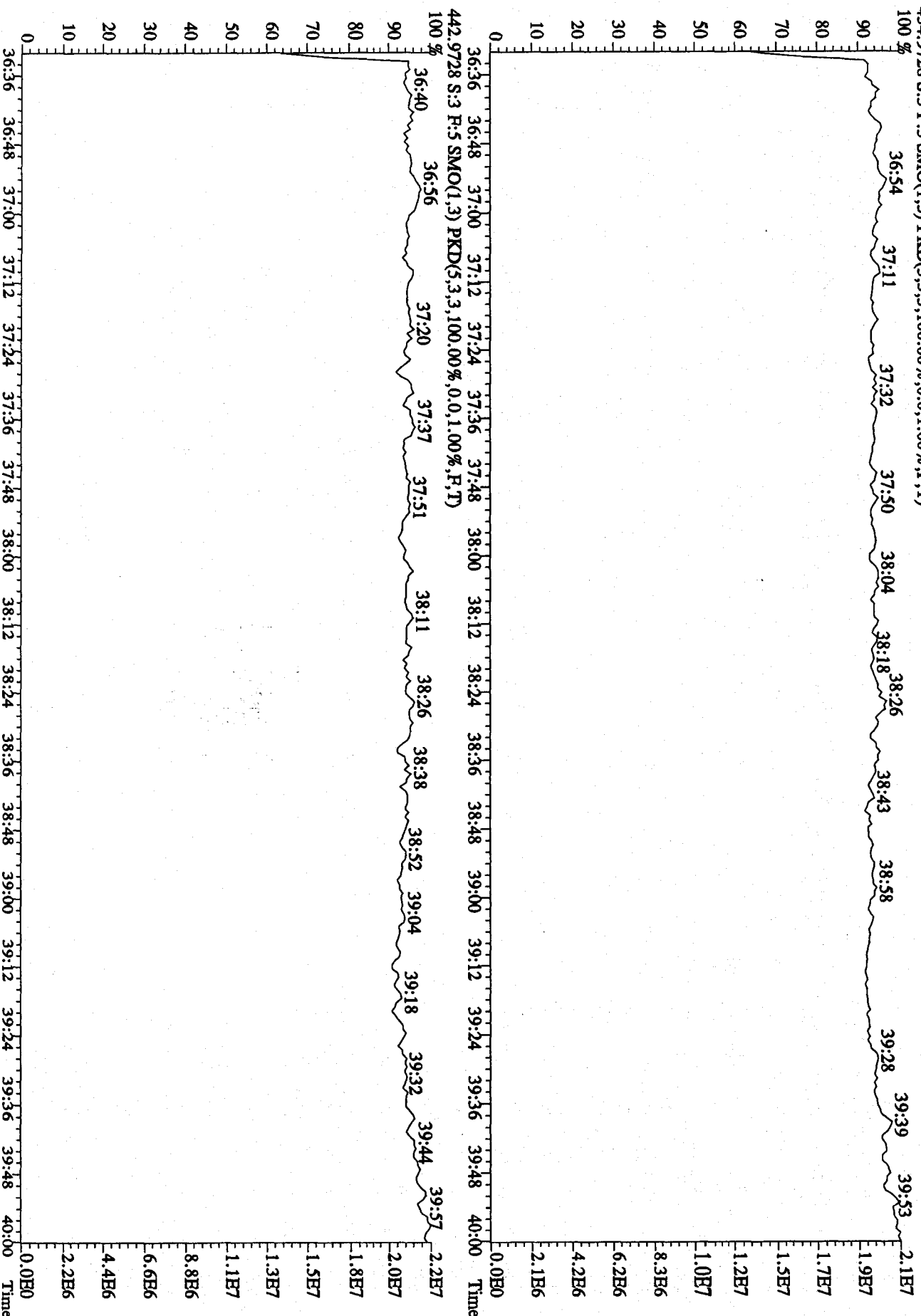
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1184.0,1.00%,F,T)



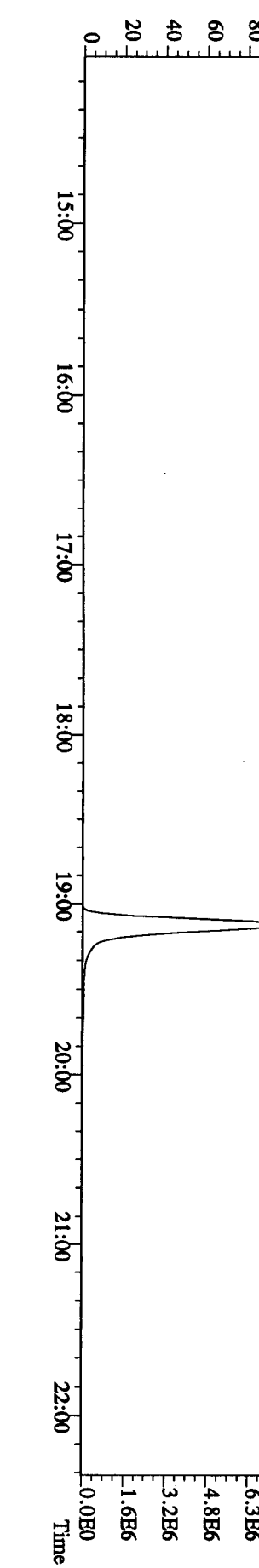
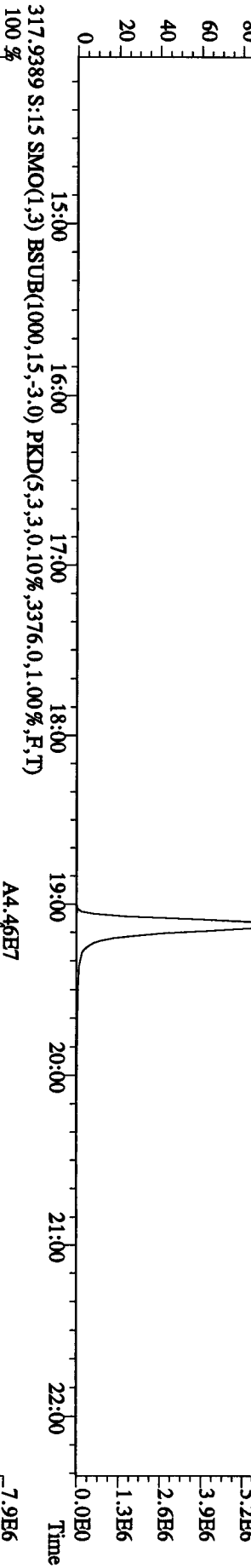
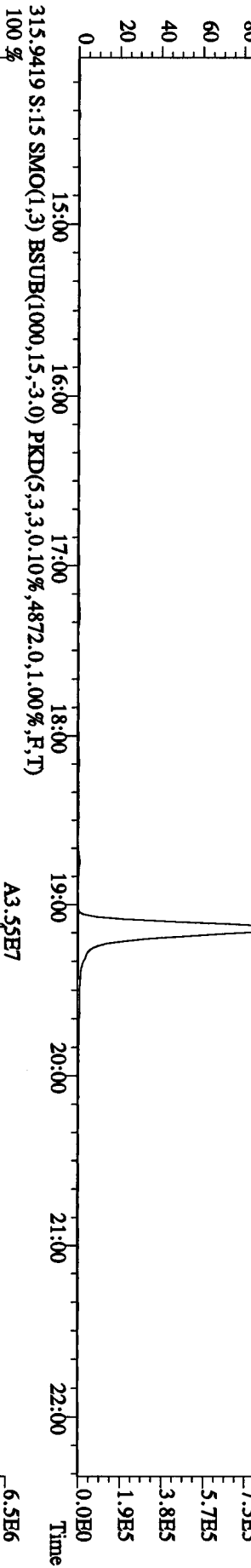
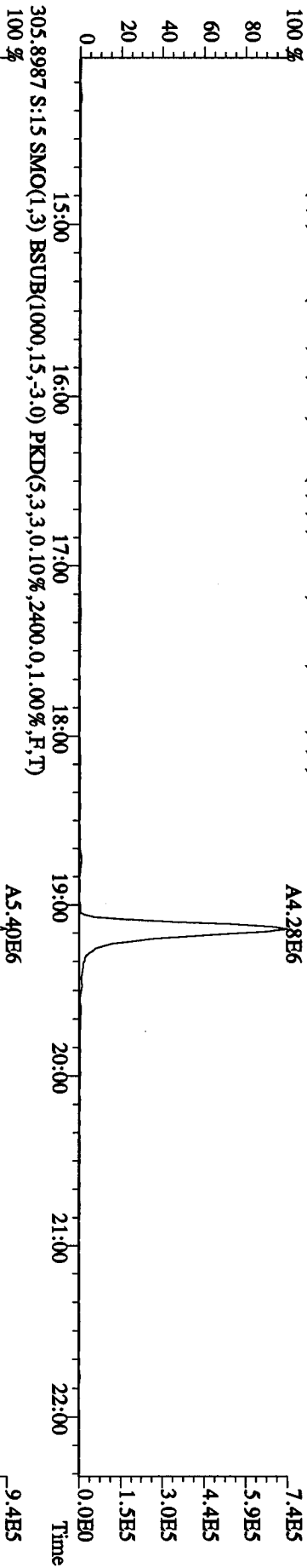
479.7165 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,52.0,1.00%,F,T)



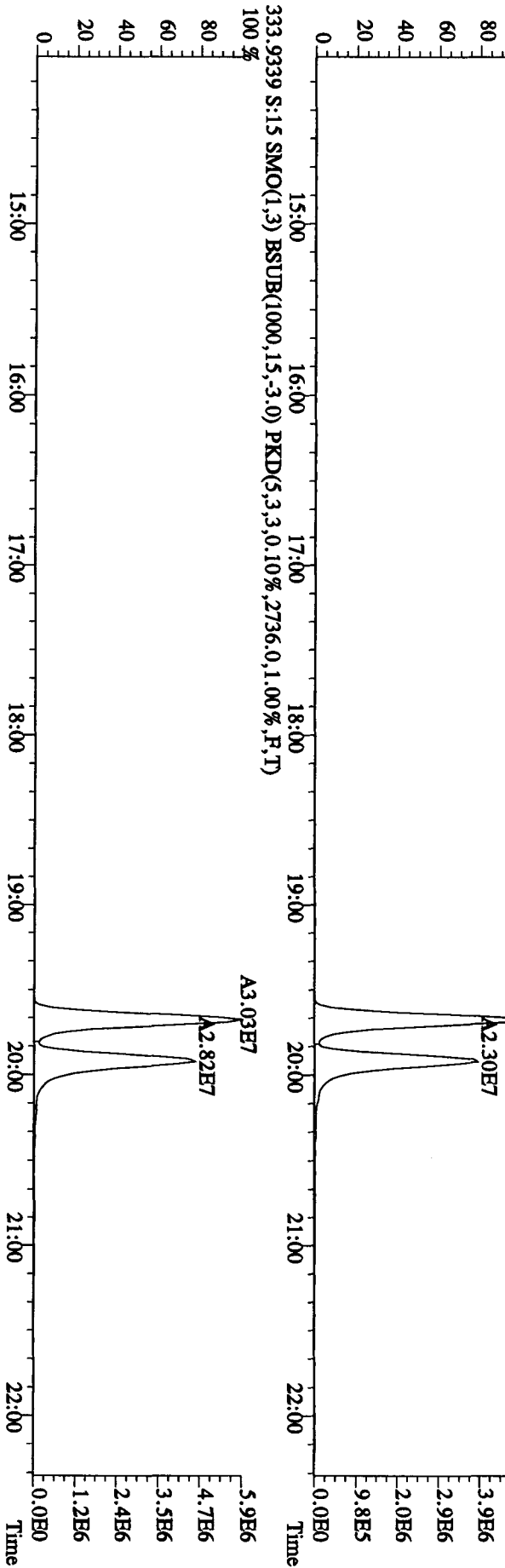
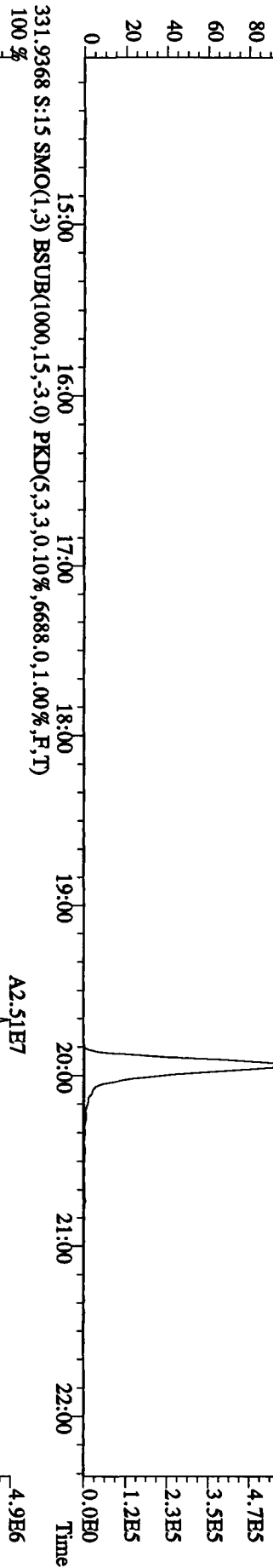
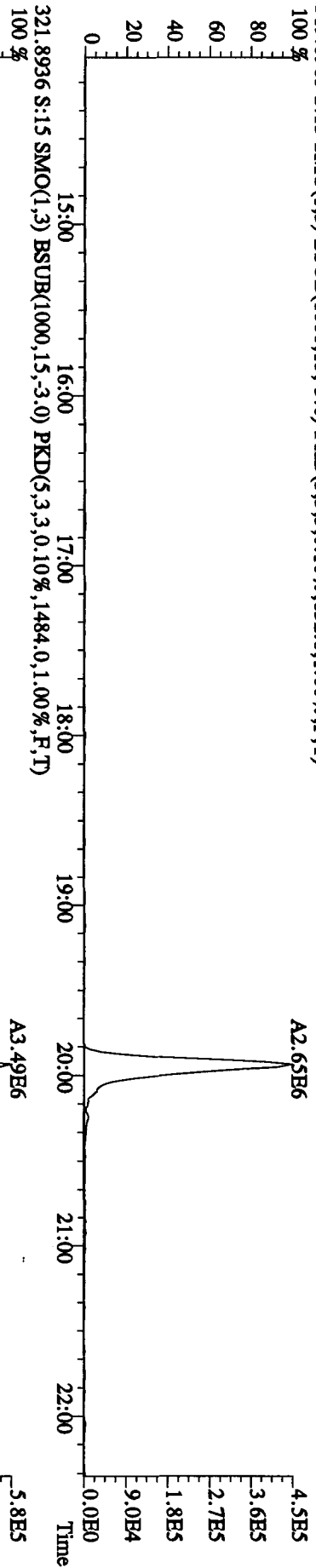
File: 23DE094D5 #1-281 Acq: 23-DEC-2009 10:13:48 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text: SB1223 :Solvent Blank C-14 Exp: DIOXIN
 454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



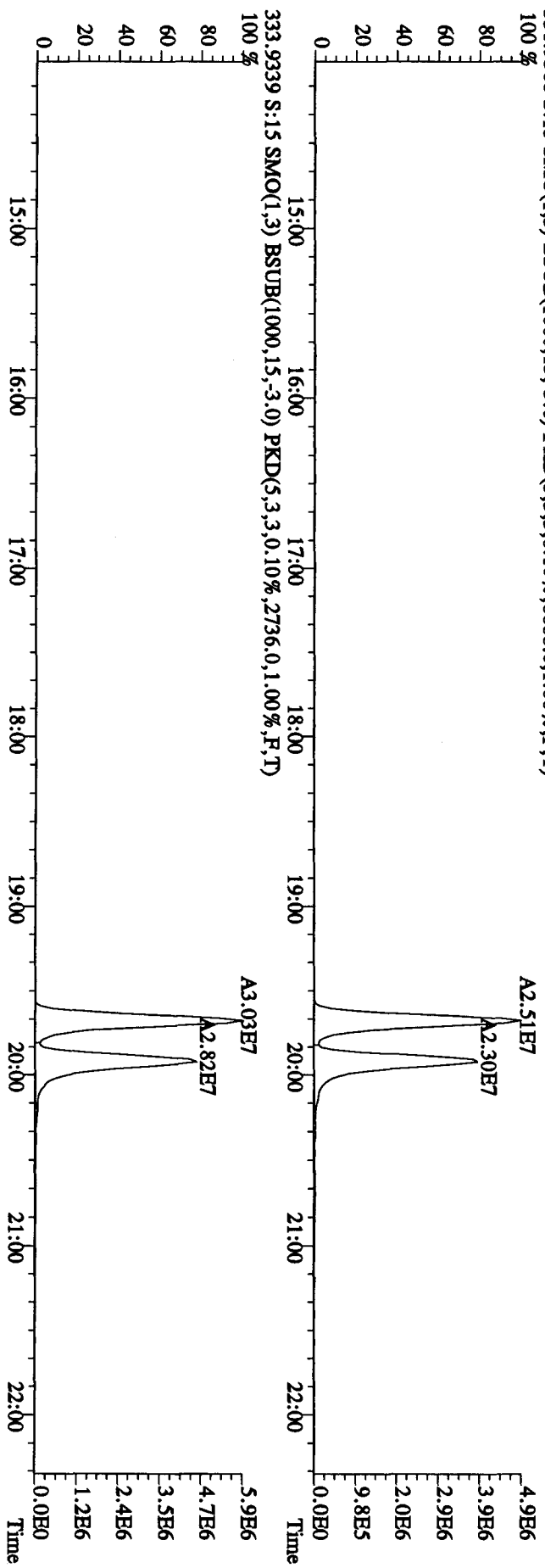
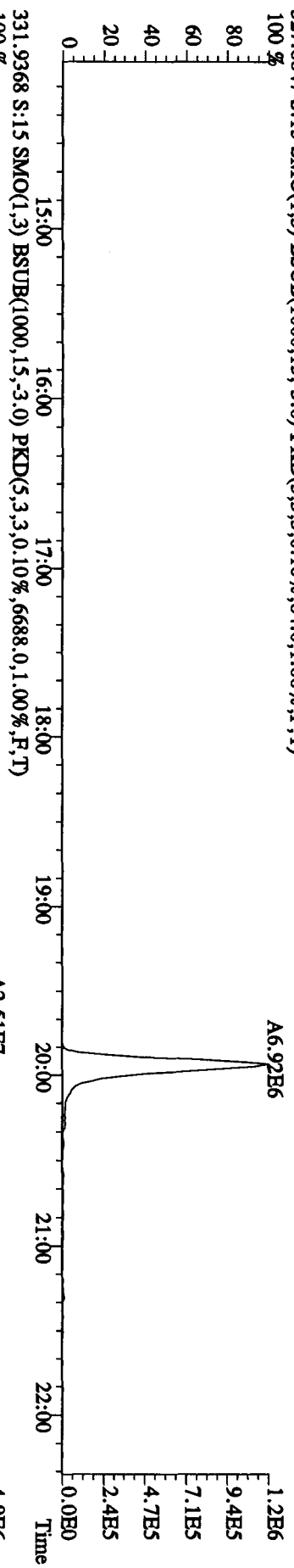
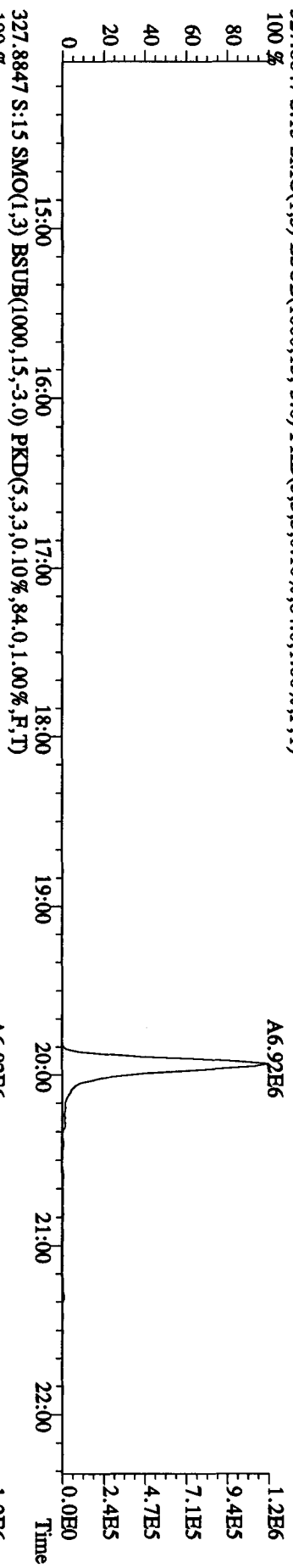
File:23DB094D5 #1-578 Acq:23-DEC-2009 19:02:12 GC EI+ Voltage SIR Autospec-UltimaB
Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN
305.9016 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,1632.0,1.00%,F,T)
100 %



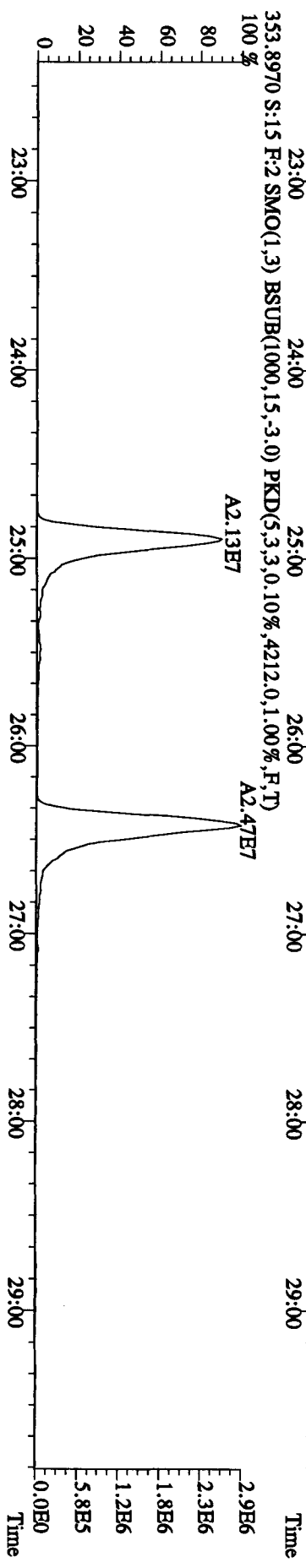
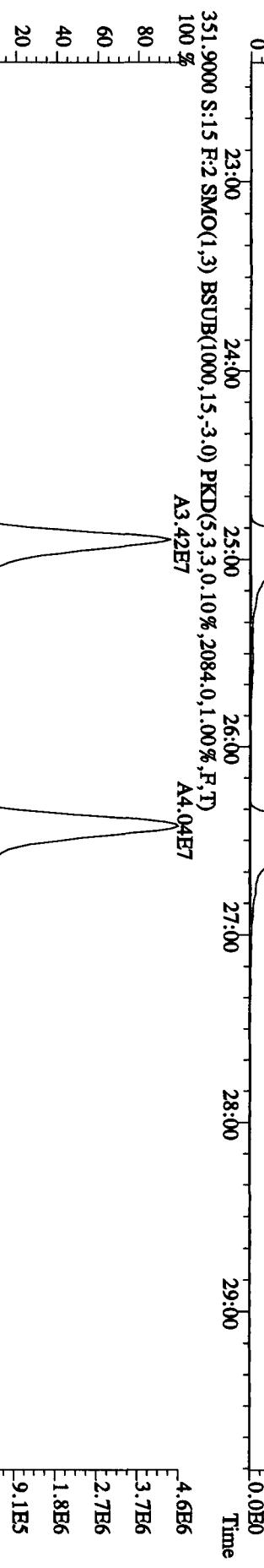
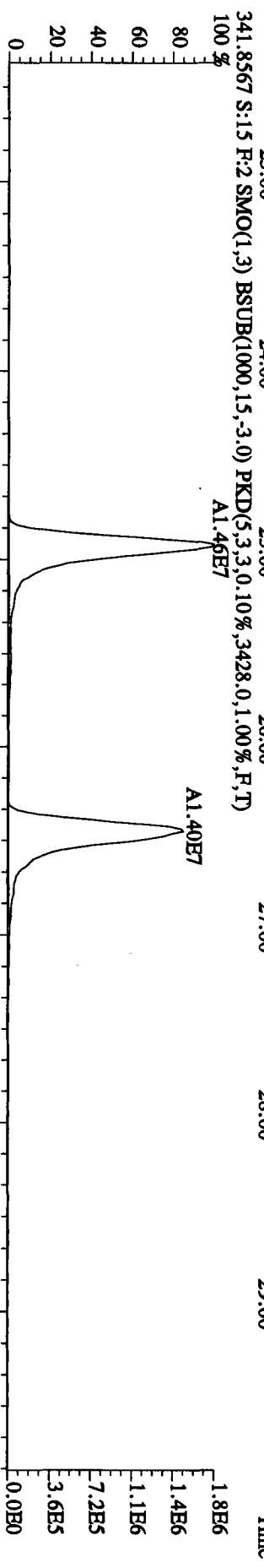
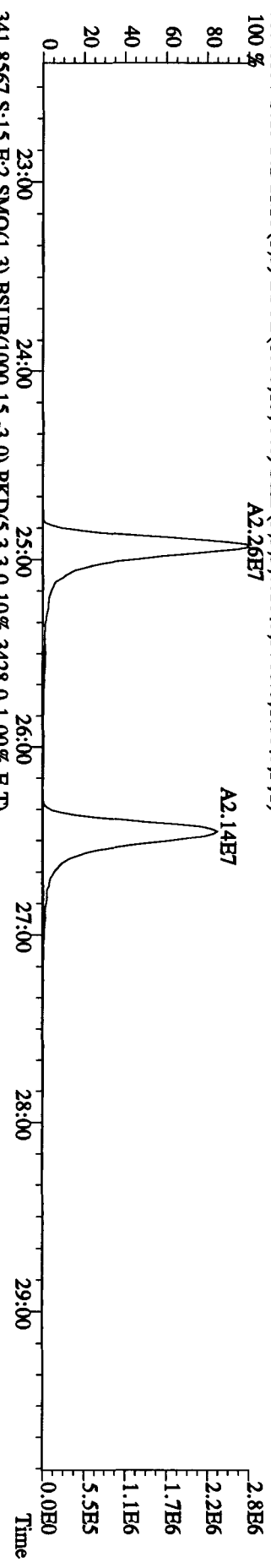
File: 23DDE094D5 #1-578 Acq: 23-DEC-2009 19:02:12 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#15 Text: ST1222A :CS3 09DXN384 Exp: DIOXIN
 319.8965 S:15 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,632,0,1,00%,F,T)
 100%



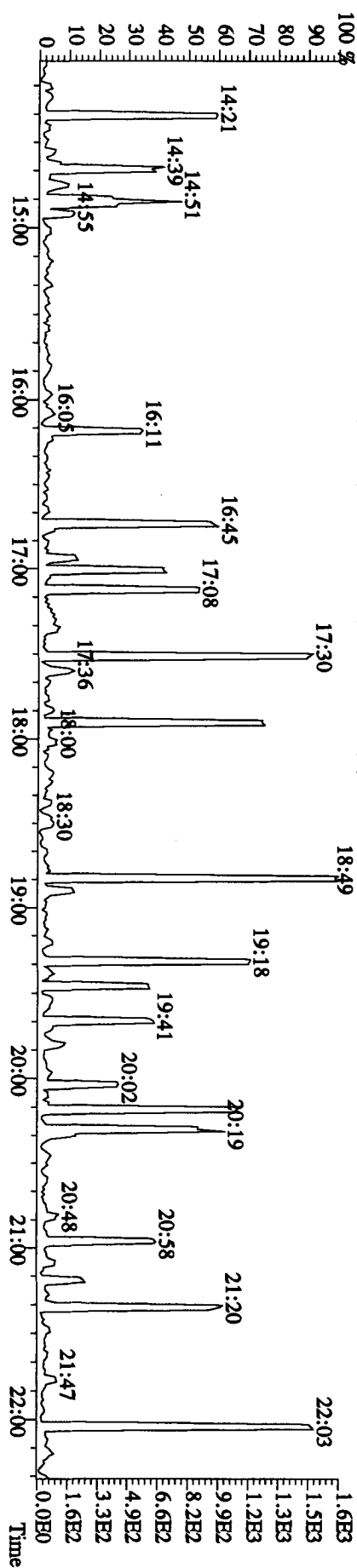
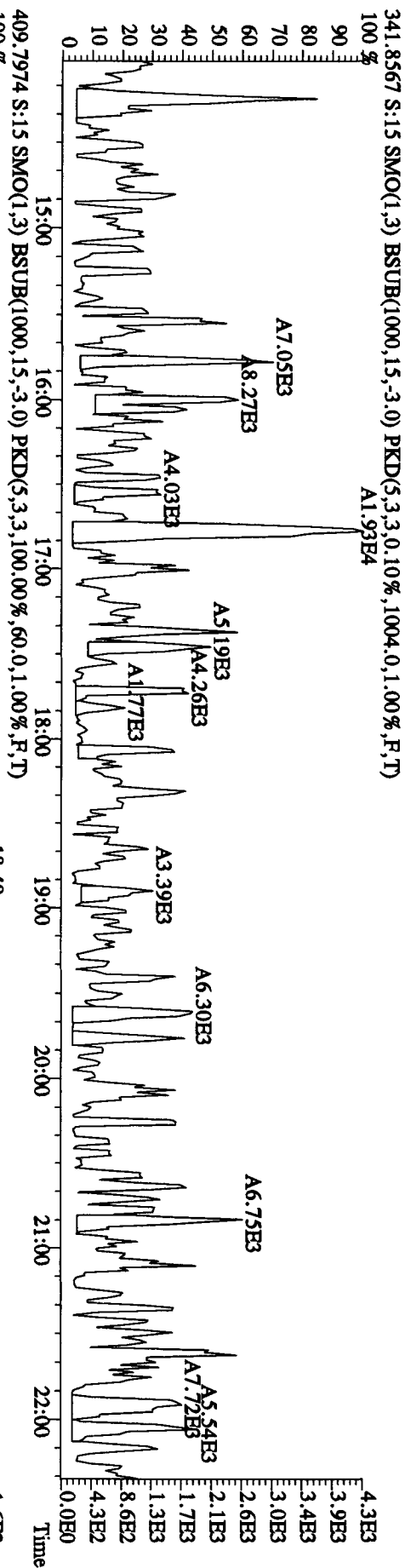
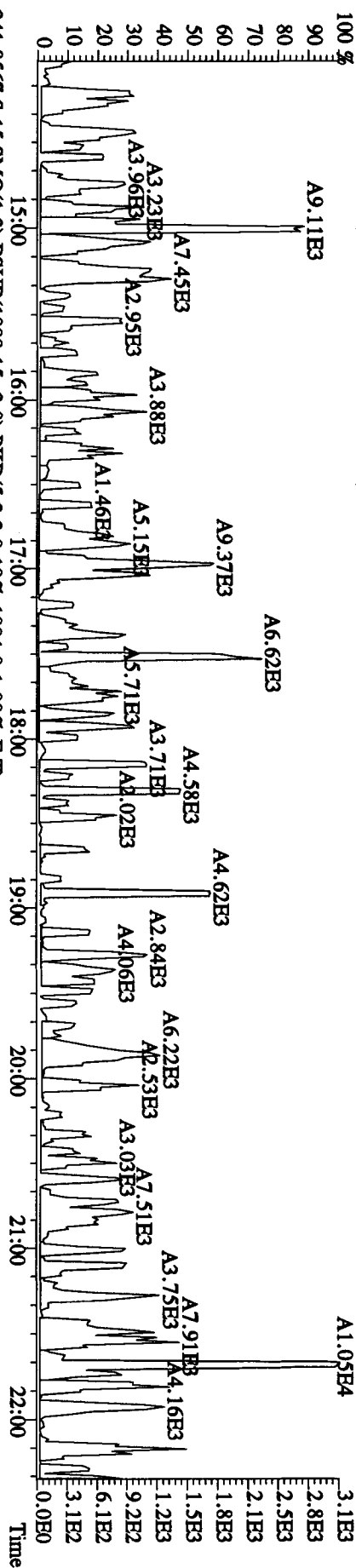
File:23DDE094D5 #1-578 Acq:23-DEC-2009 19:02:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN
 327.8847 S:15 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,84.0,1.00%,F,T)



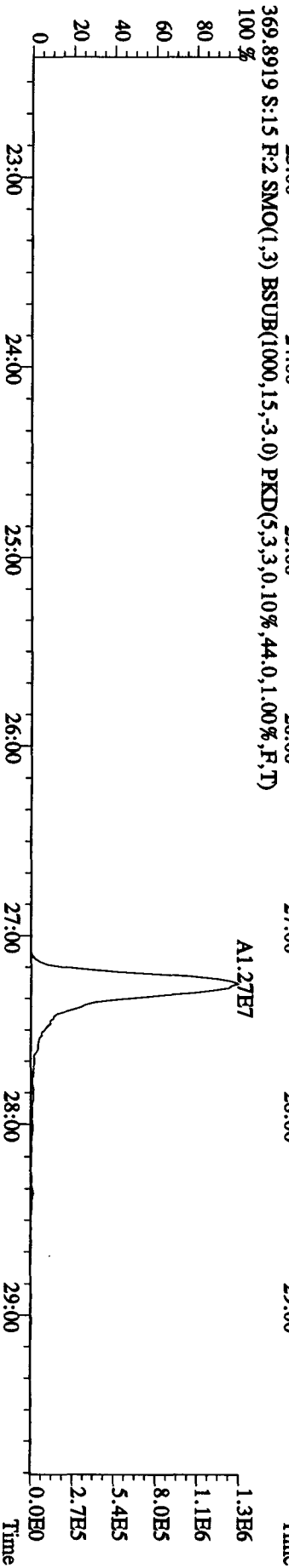
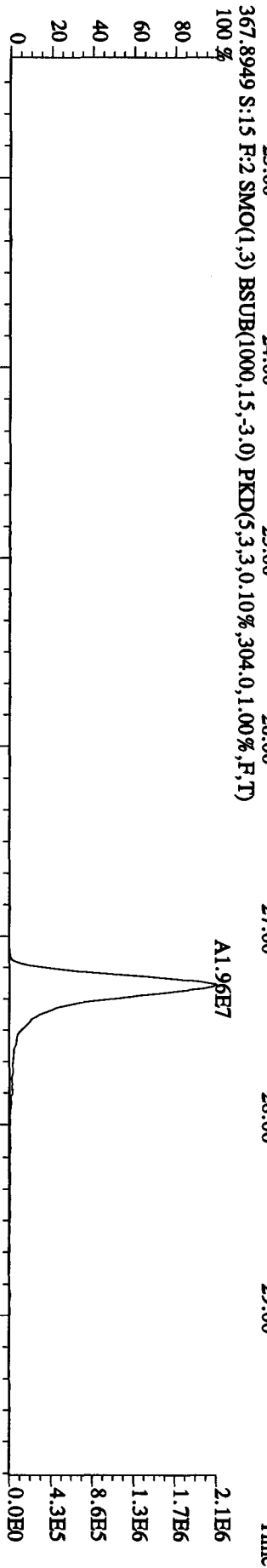
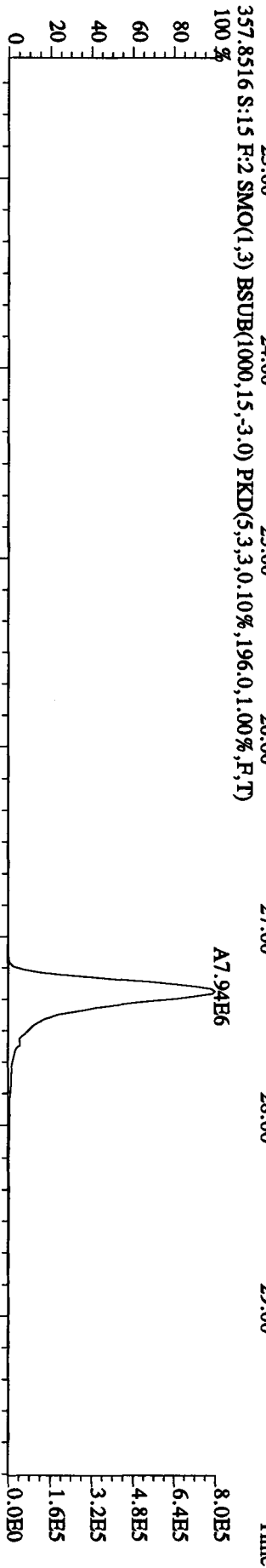
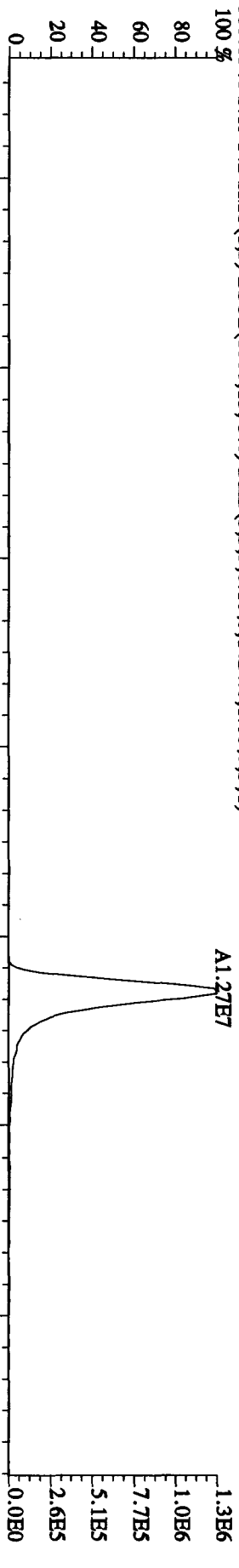
File:23DE094D5 #1-596 Acq:23-DEC-2009 19:02:12 GC EI + Voltage SIR Autospec-Ultimate
 Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN
 339.8597 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3768,0.1,0.0%,F,T)
 100 %



File: 23DB094D5 #1-578 Acq: 23-DEC-2009 19:02:12 GC EI + Voltage SIR Autospec-UltimaE
 Sample#15 Text: ST1222A :CS3 09DXN384 Exp: DIOXIN
 339.8597 S:15 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,76.0,1.00%,F,T)



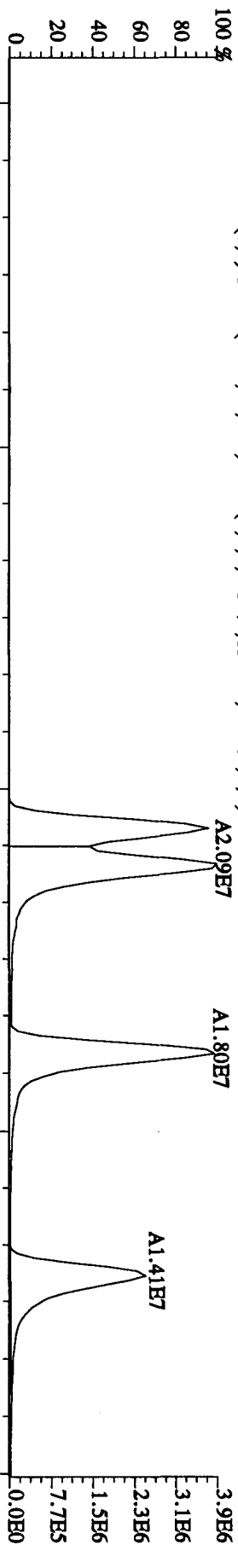
File:23DB094D5 #1-596 Acq:23-DEC-2009 19:02:12 GC EI + Voltage SIR Autospec-UltimaE
 Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN
 355.8546 S:15 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1424.0,1.00%,F,T)



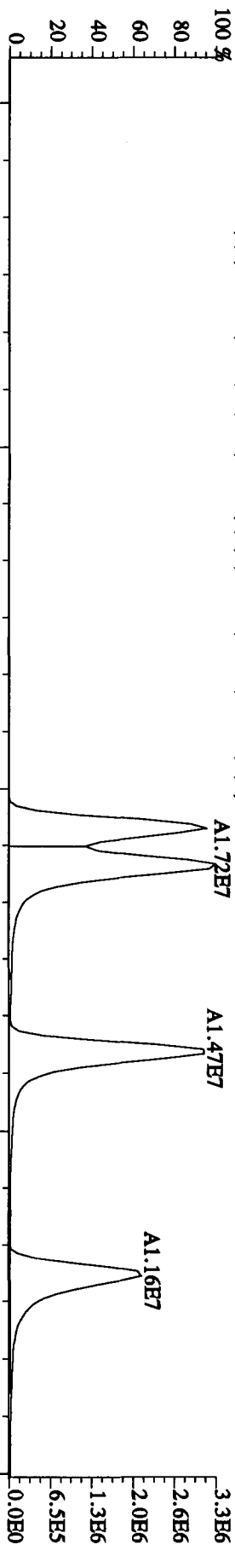
File:23DDE094D5 #1-314 Acq:23-DEC-2009 19:02:12 GC EI+ Voltage SIR Autospec-UltimaE

Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN

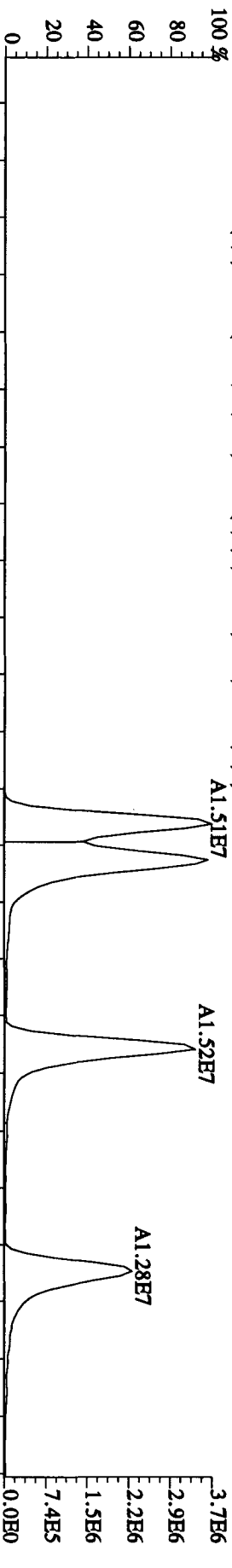
373.8208 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1224.0,1.00%,F,T)



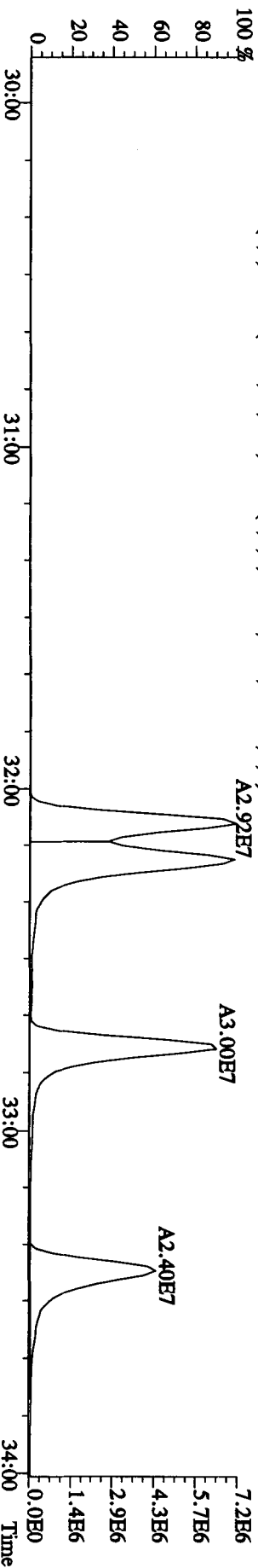
375.8178 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,560.0,1.00%,F,T)



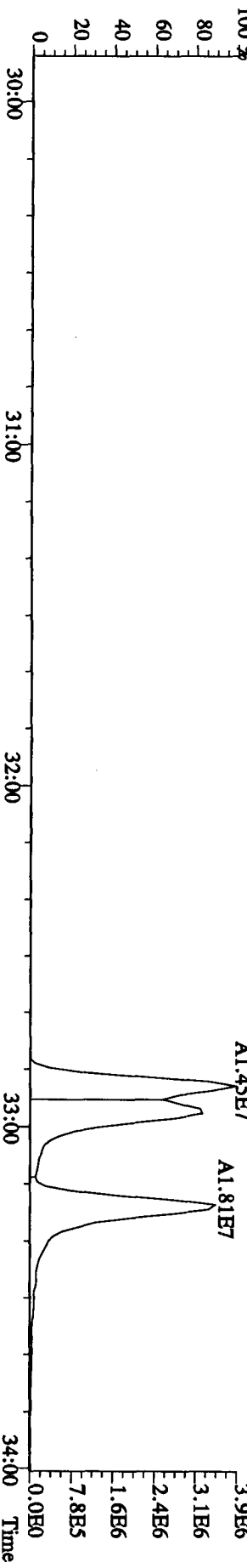
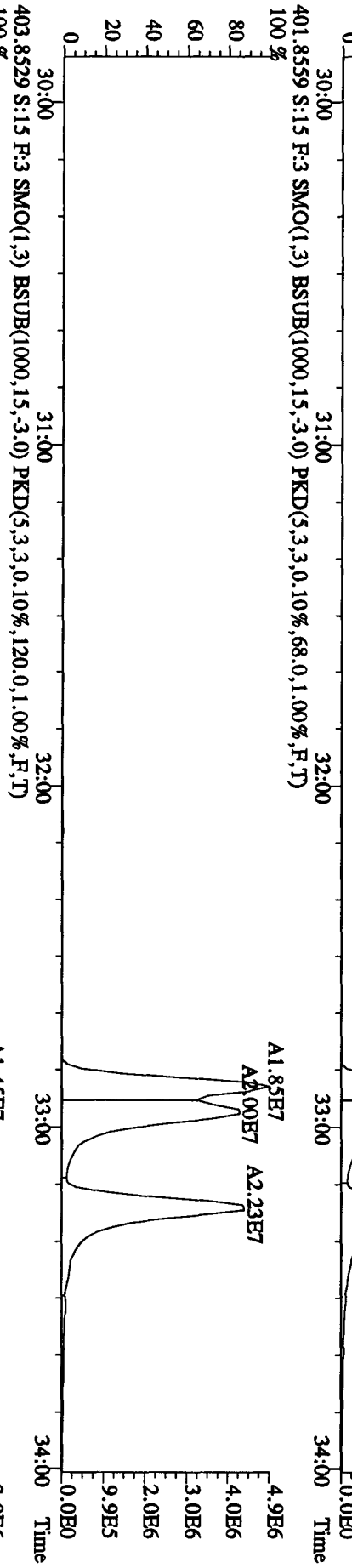
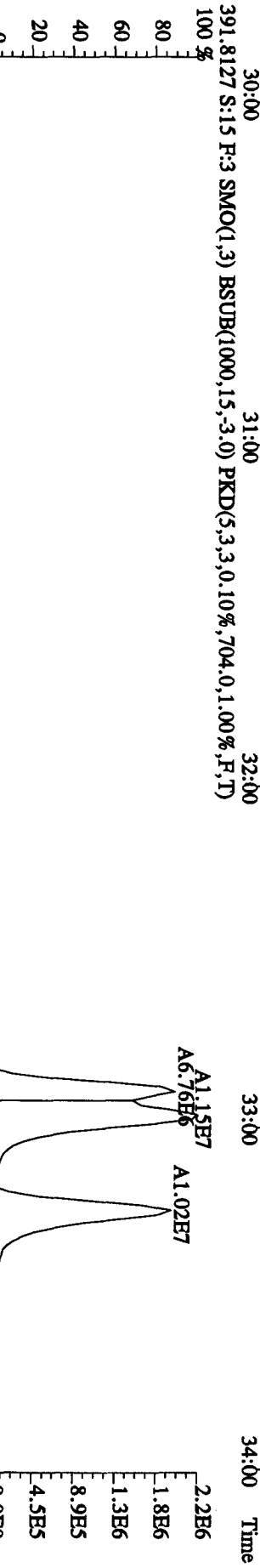
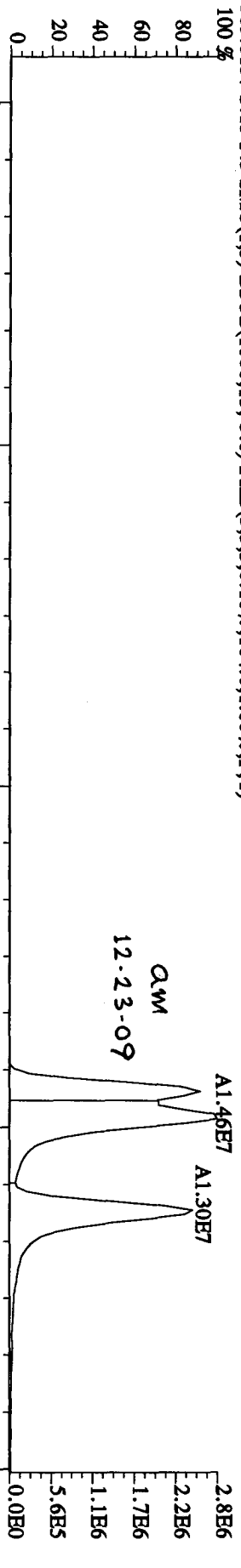
383.8639 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,92.0,1.00%,F,T)



385.8610 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,60.0,1.00%,F,T)



File: 23DE094D5 #1-314 Acq: 23-DEC-2009 19:02:12 GC EI + Voltage SIR Autospec-UltimaE
 Sample#15 Text: ST1222A :CS3 09DXN384 Exp: DIOXIN
 389, 8157 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,104.0,1.00%,F,T)

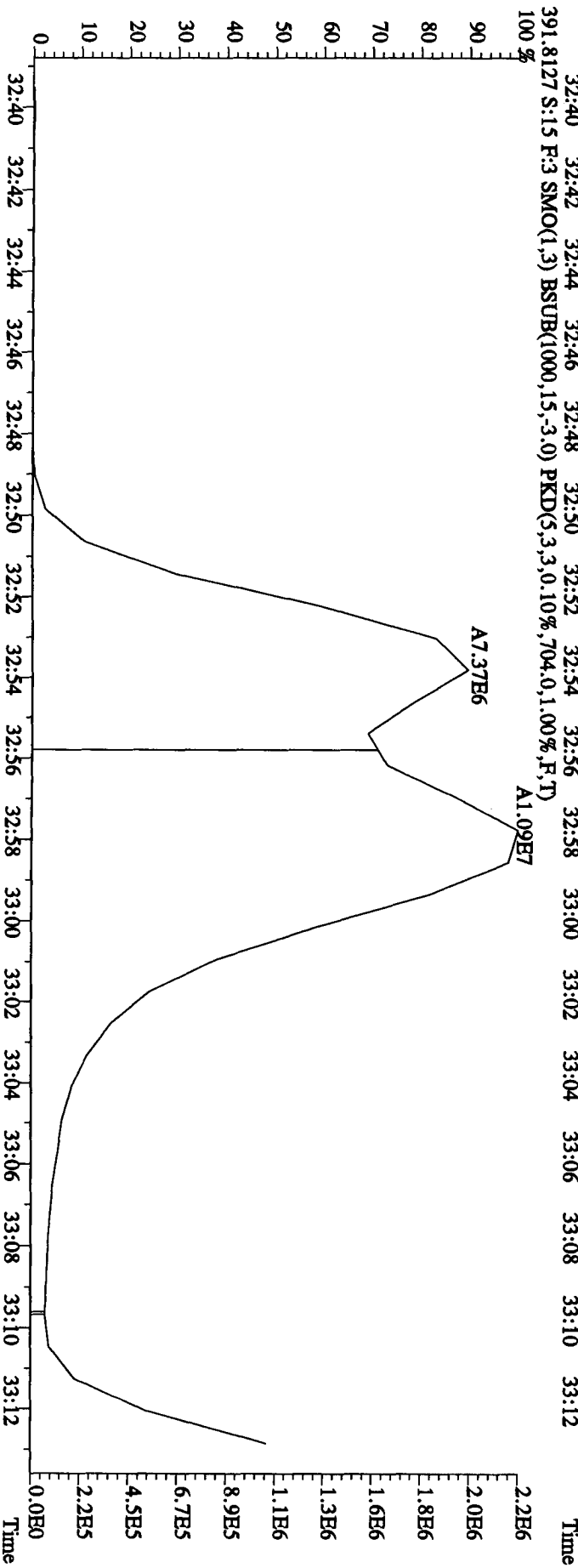
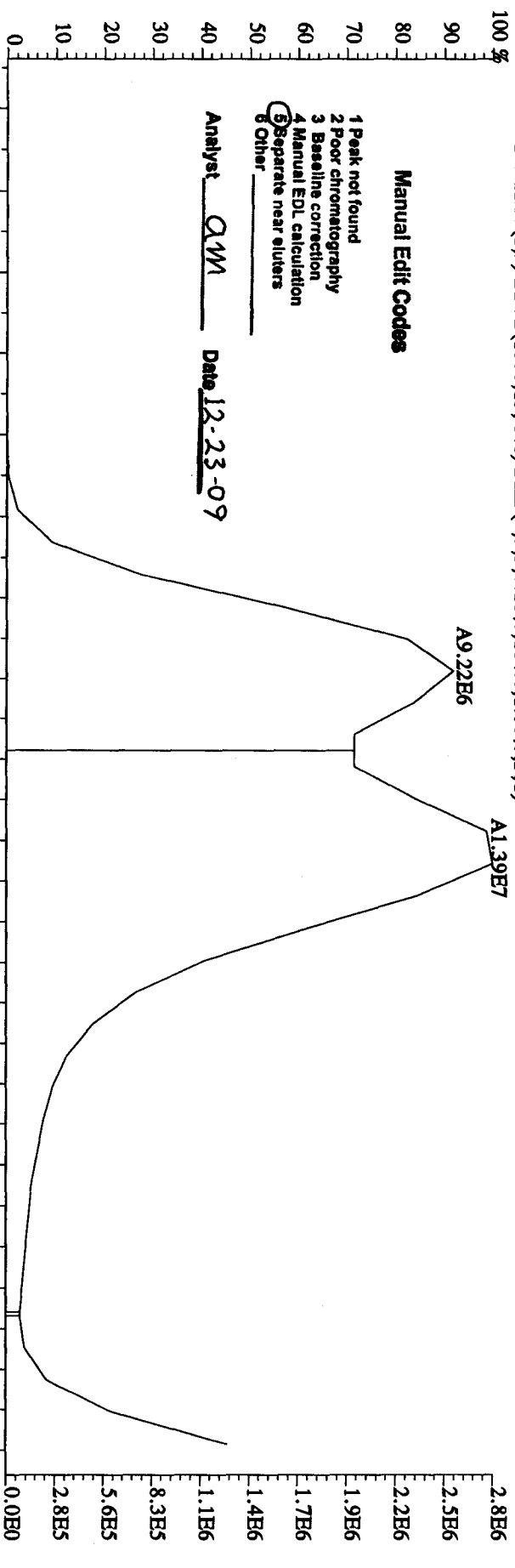


File:23DB094D5 #1-314 Acq:23-DEC-2009 19:02:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN
 389,8157 S:15 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,104,0,1.00%,F,T)

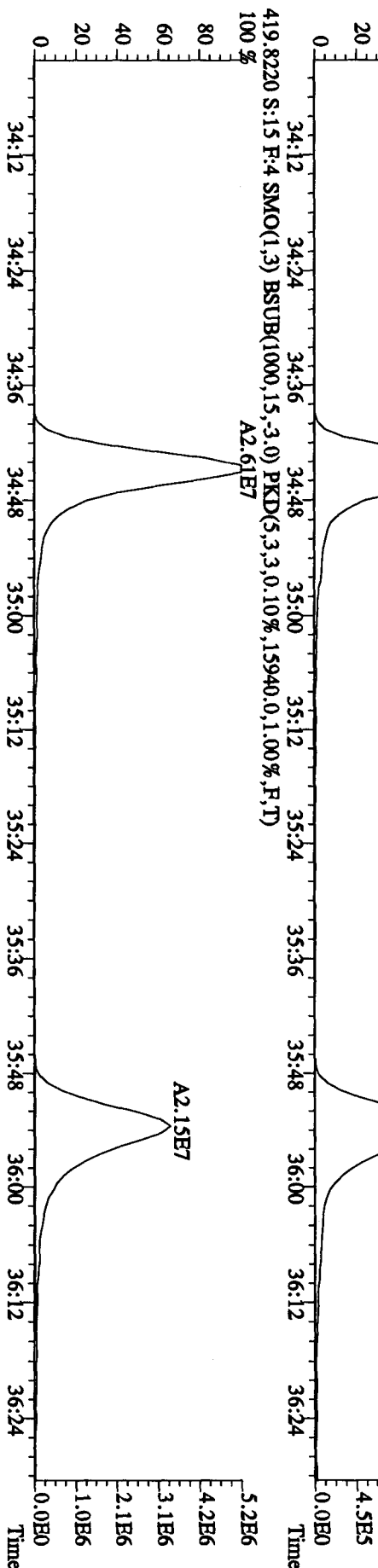
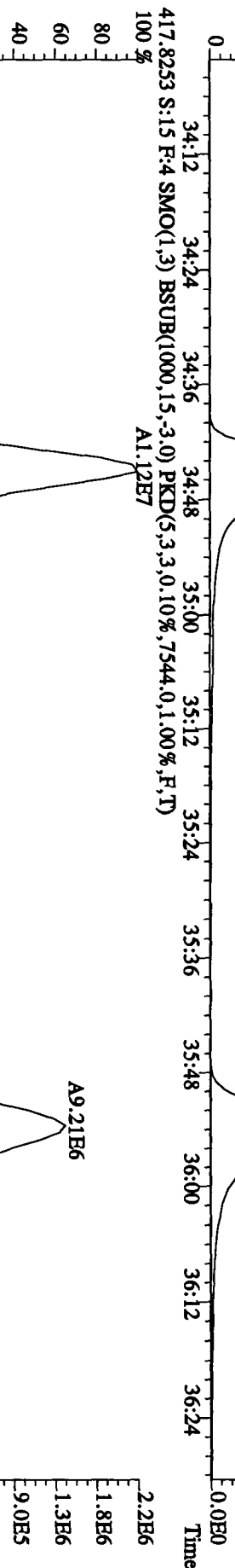
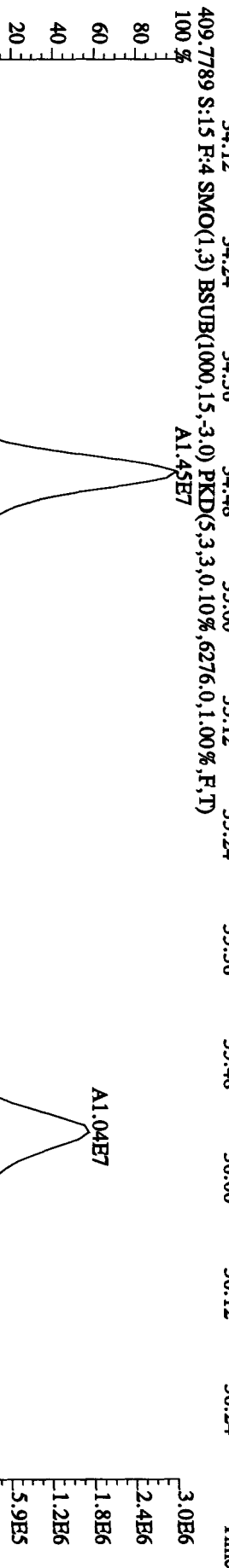
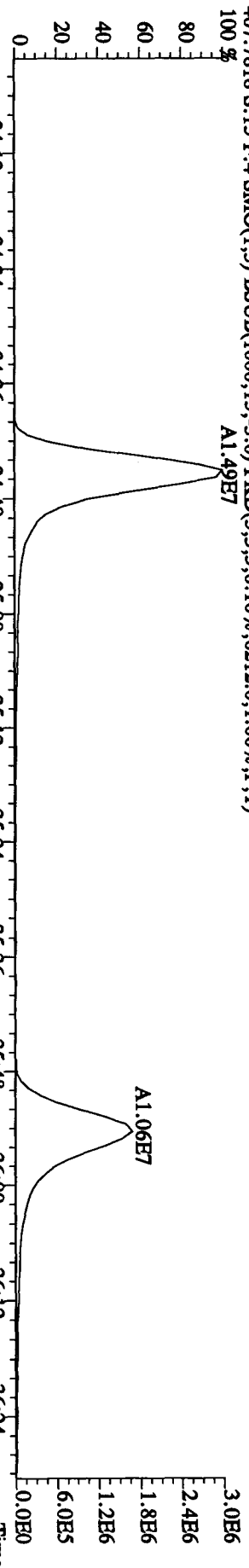
Manual Edit Codes

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

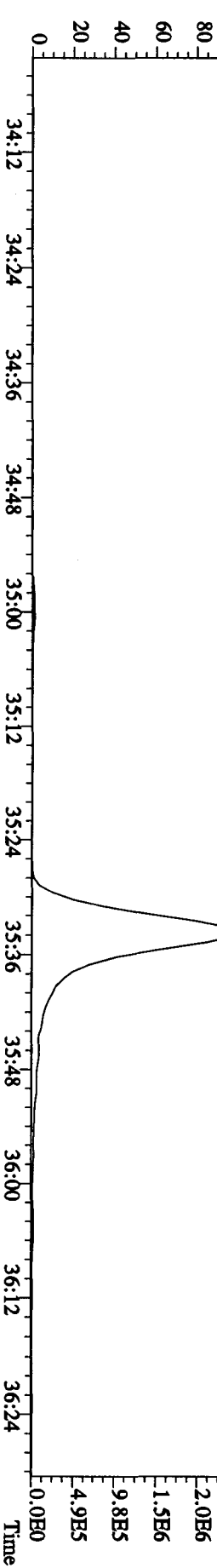
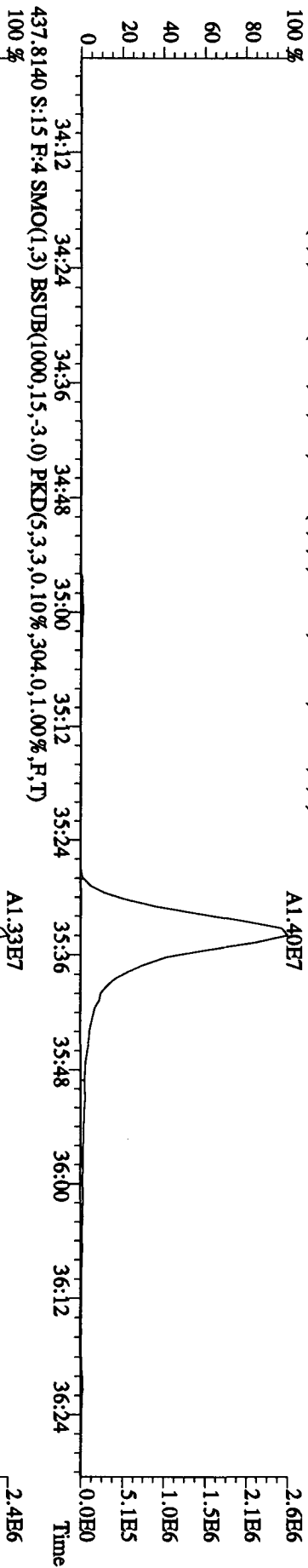
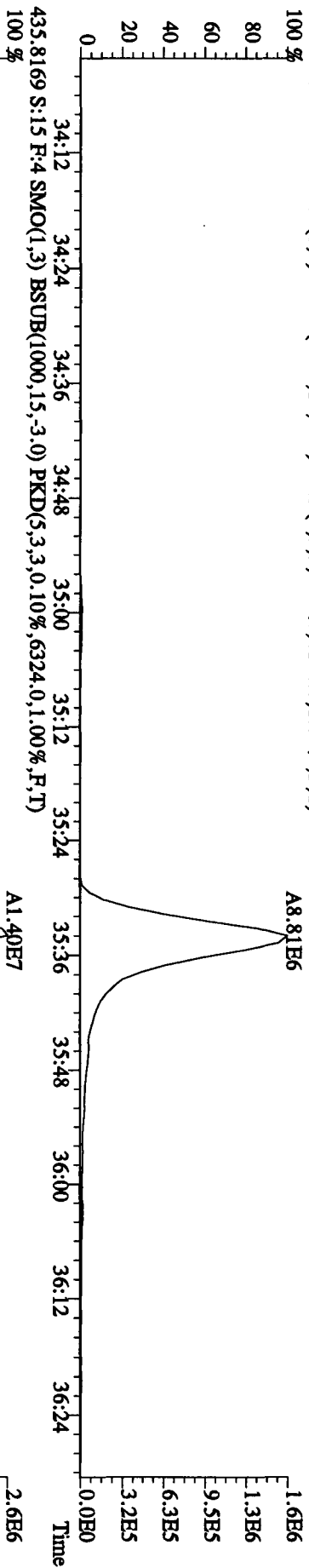
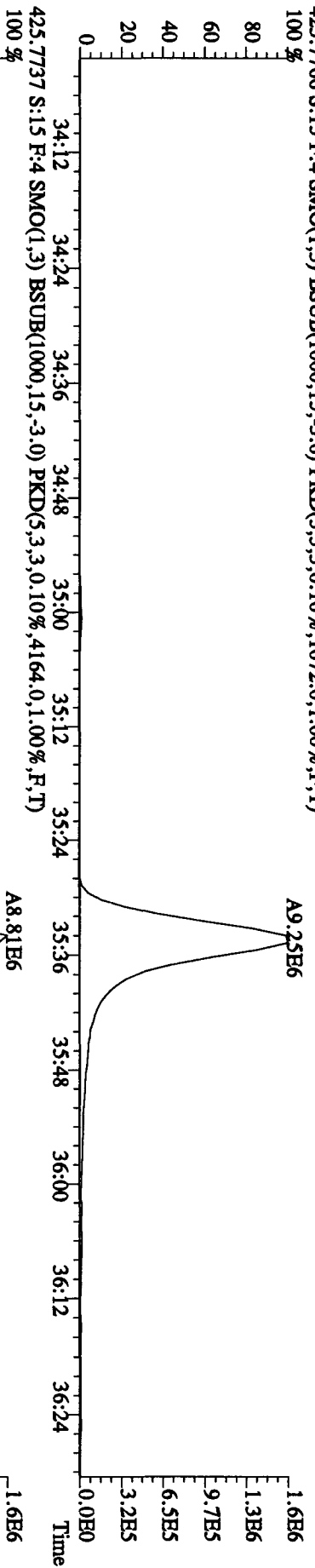
Analyst QWM Date 12-23-09



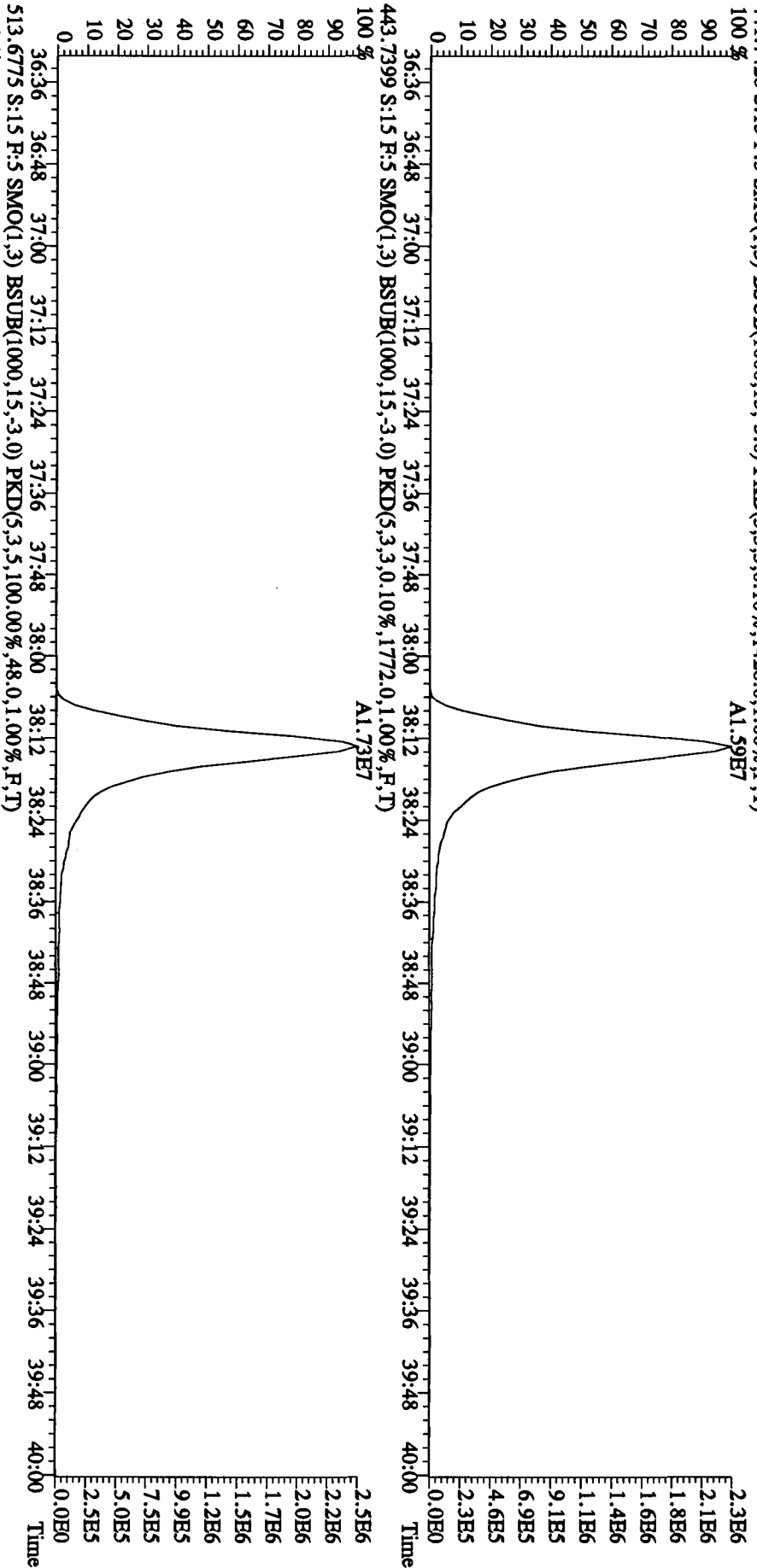
File:23DE094D5 #1-198 Acq:23-DEC-2009 19:02:12 GC EI + Voltage SIR Autospec-Ultimate
 Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN
 407.7818 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6212.0,1.00%,F,T)
 100 % A1.49E7



File:23DB094D5 #1-198 Acq:23-DEC-2009 19:02:12 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN
 423.7766 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1072.0,1.00%,F,T) 100%



File:23DDE094D5 #1-281 Acq:23-DEC-2009 19:02:12 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN
 441.7428 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.428,0.1,00%,F,T)
 100% A1.59E7



File:23DE094D5 #1-281 Acq:23-DEC-2009 19:02:12 GC EI+ Voltage SIR Autospec-UltimaE

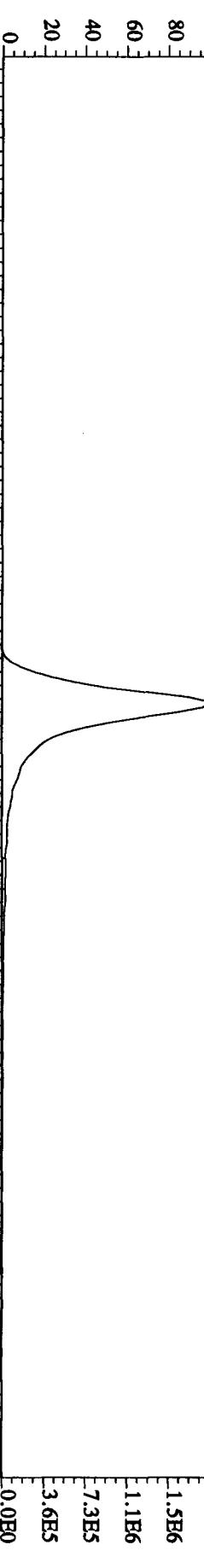
Sample#15 Text:ST1222A :CS3 09DXN384

Exp:DIOXIN

457.7377 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,688.0,1.00%,F,T)

100%

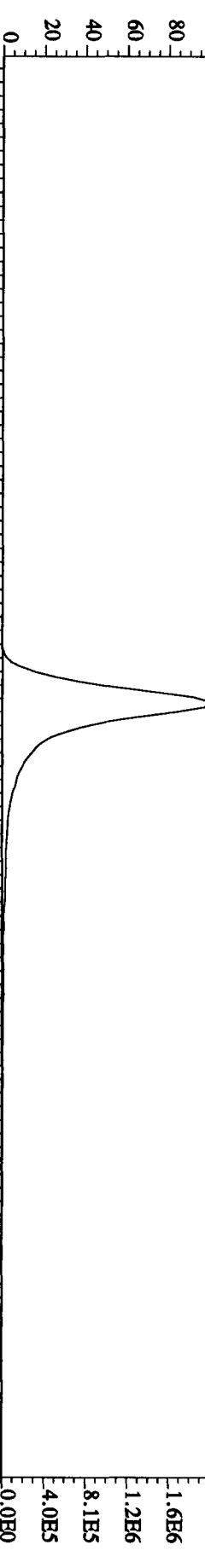
A1.26E7



459.7348 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1708.0,1.00%,F,T)

100%

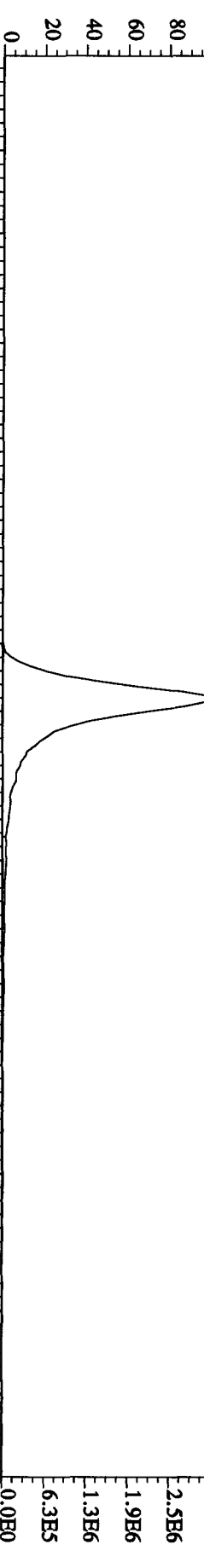
A1.43E7



469.7779 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4072.0,1.00%,F,T)

100%

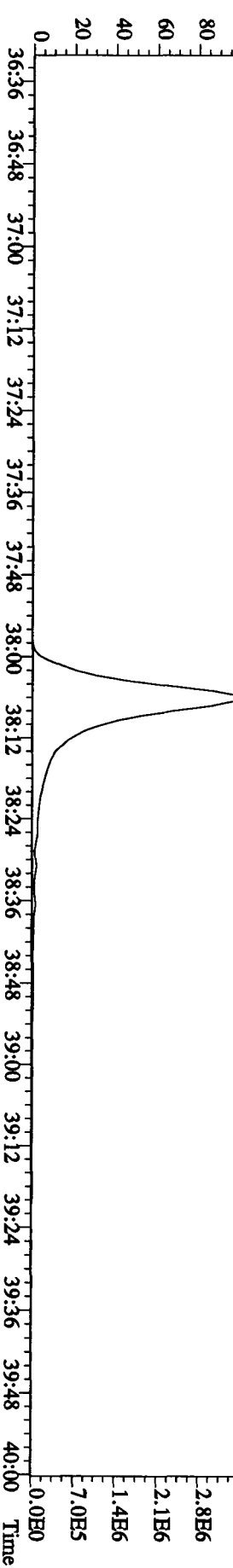
A2.15E7



471.7750 S:15 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2836.0,1.00%,F,T)

100%

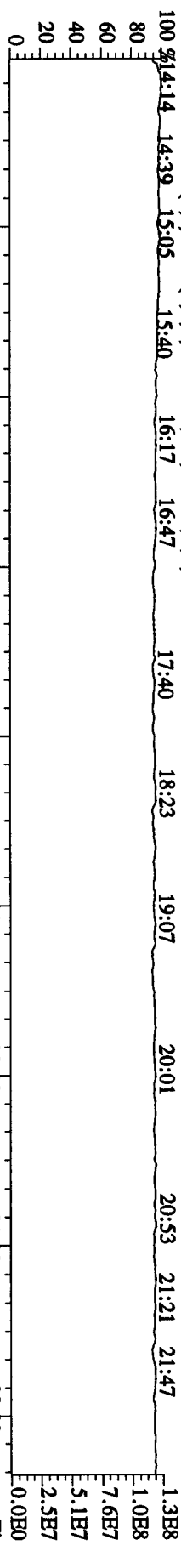
A2.39E7



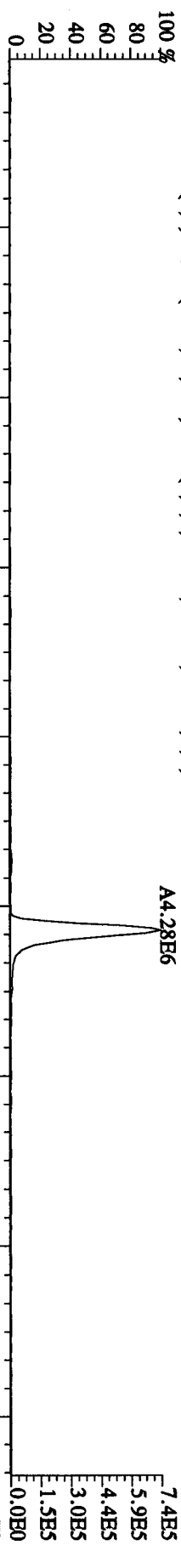
Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN

292.9825 S:15 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)

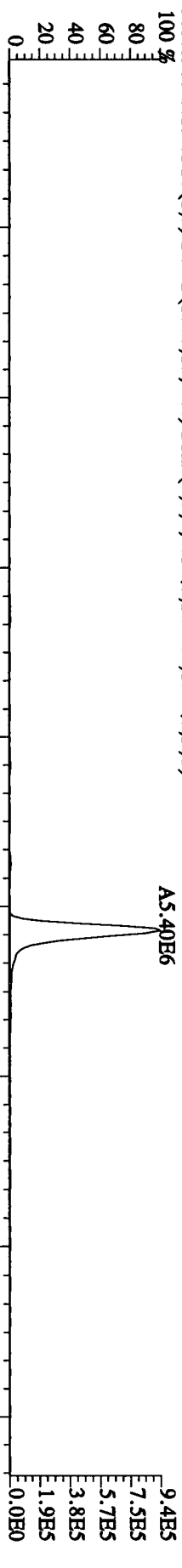
100 %14:14 14:39 15:05 15:40 16:17 16:47 17:40 18:23 19:07 20:01 20:53 21:21 21:47



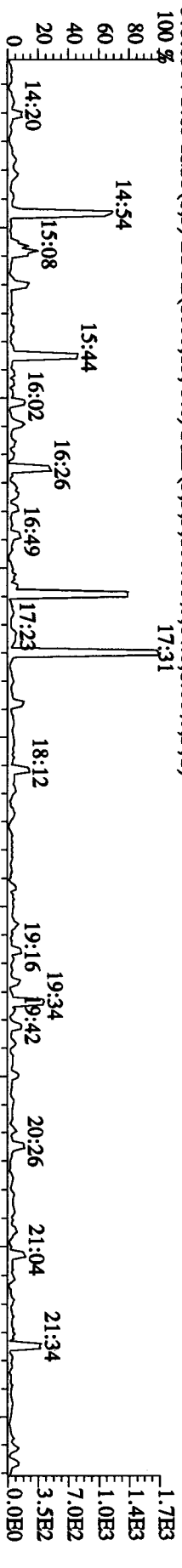
303.9016 S:15 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1632.0,1.00%,F,T)



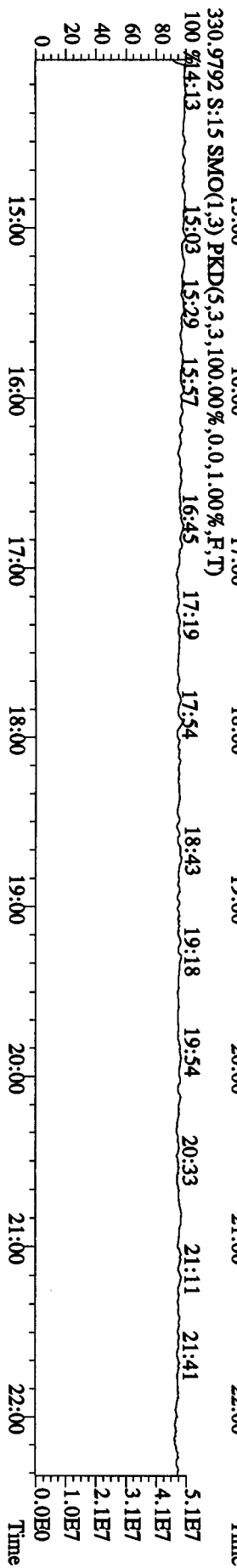
305.8987 S:15 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2400.0,1.00%,F,T)

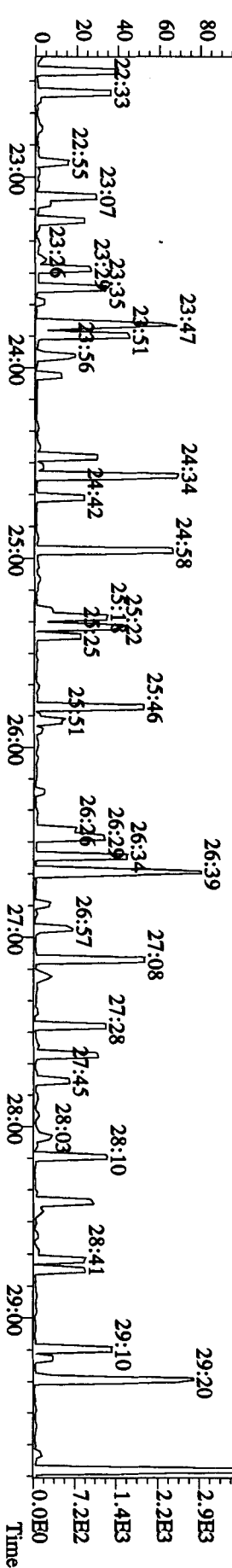
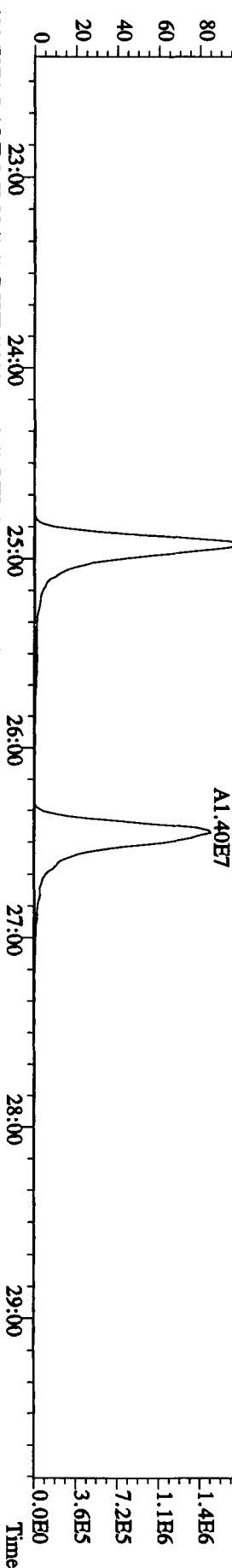
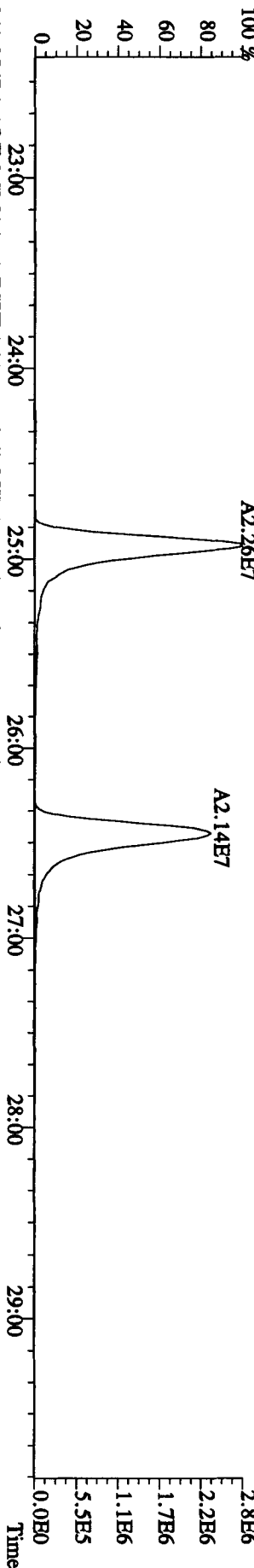
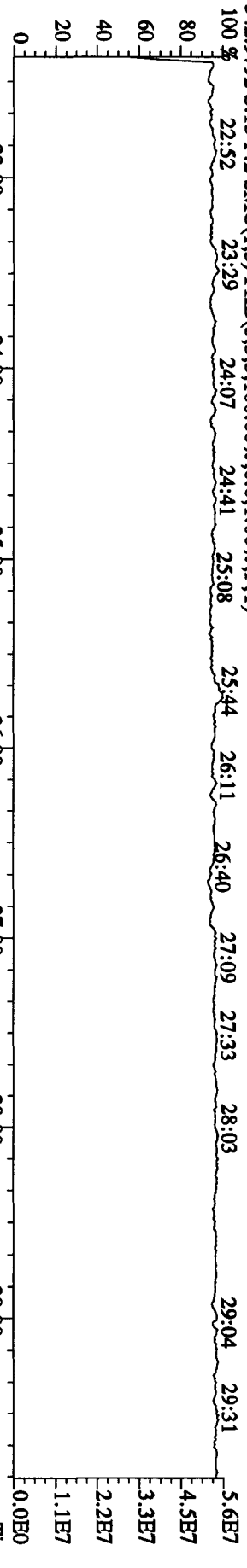


375.8364 S:15 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,64.0,1.00%,F,T)



330.9792 S:15 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



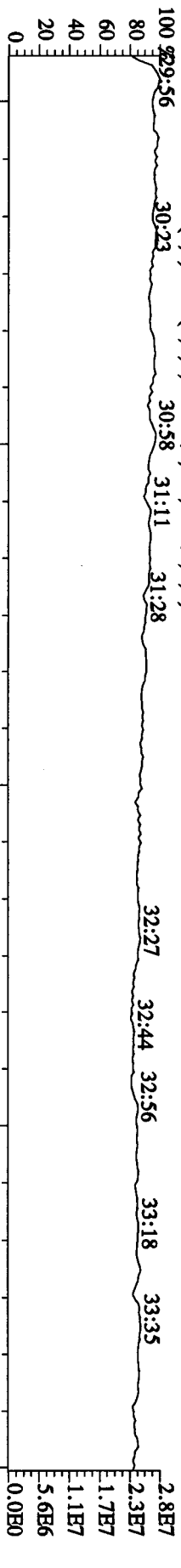


File:23DDE094D5 #1-314 Acq:23-DEC-2009 19:02:12 GC EI+ Voltage SIR Autospec-UltimaB

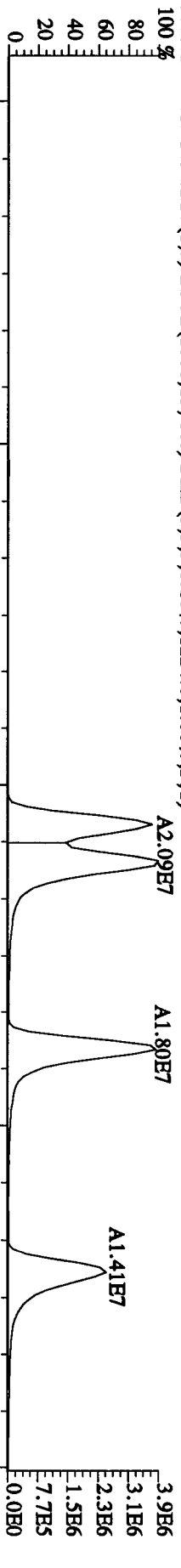
Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN

392.9760 S:15 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

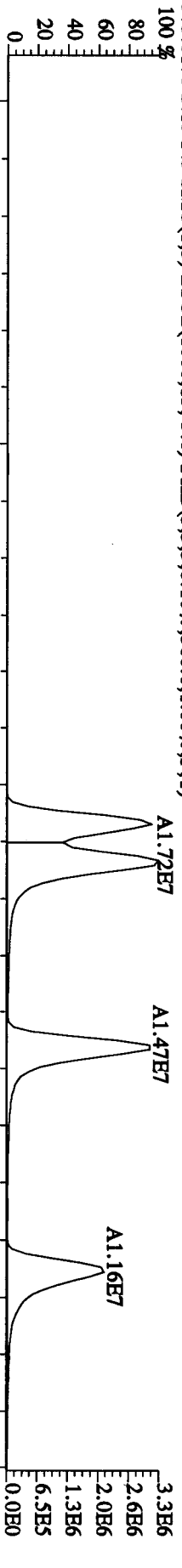
100 29:56 30:23 30:58 31:11 31:28



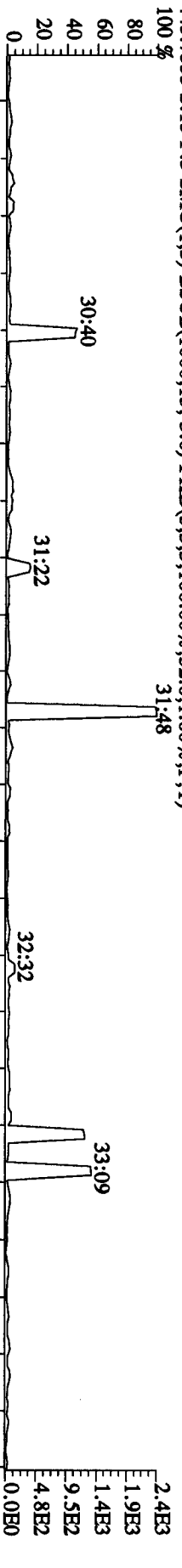
373.8208 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1224.0,1.00%,F,T)



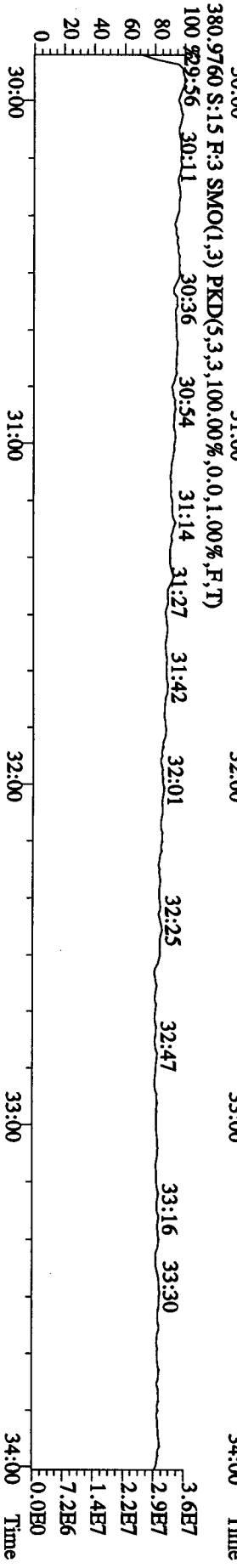
375.8178 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,560.0,1.00%,F,T)



445.7555 S:15 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,52.0,1.00%,F,T)



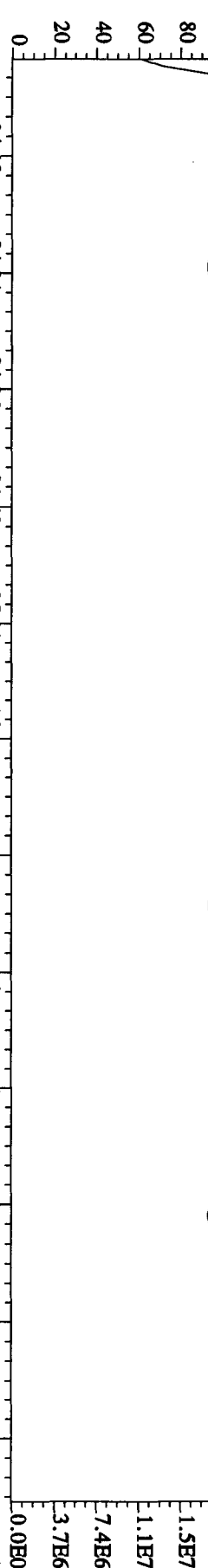
380.9760 S:15 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



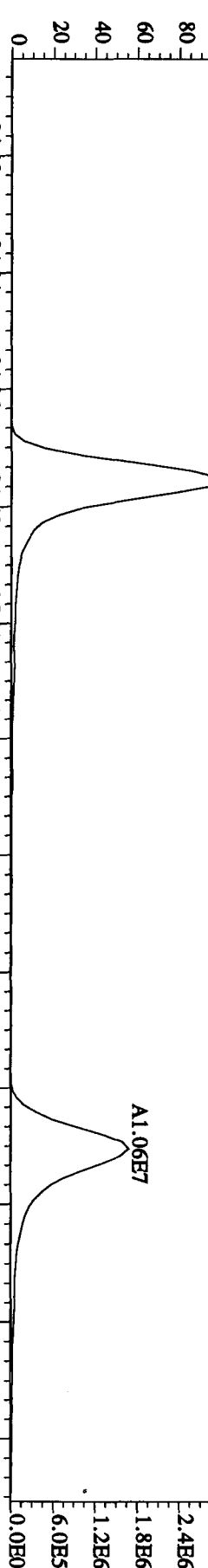
File:23DE094D5 #1-198 Acq:23-DEC-2009 19:02:12 GC EI + Voltage SIR Autospec-UtimaE

Sample#15 Text:ST1222A :CS3 09DXN384 Exp:DIOXIN

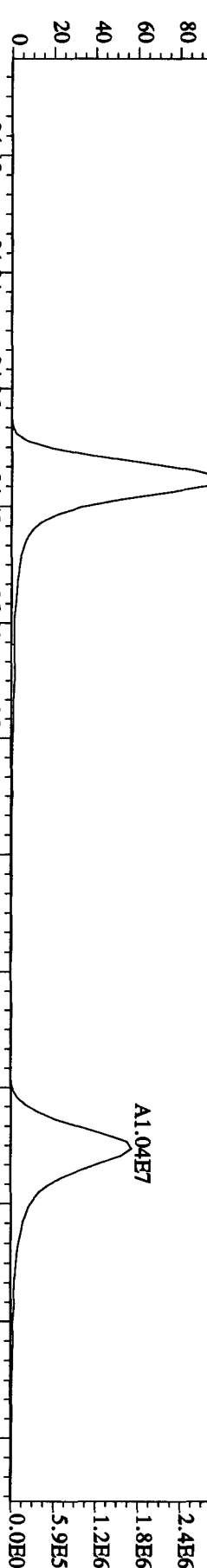
430.9728 S:15 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 34:13 34:32 34:39 34:53 35:02 35:09 35:23 35:36 35:54 36:04 36:22



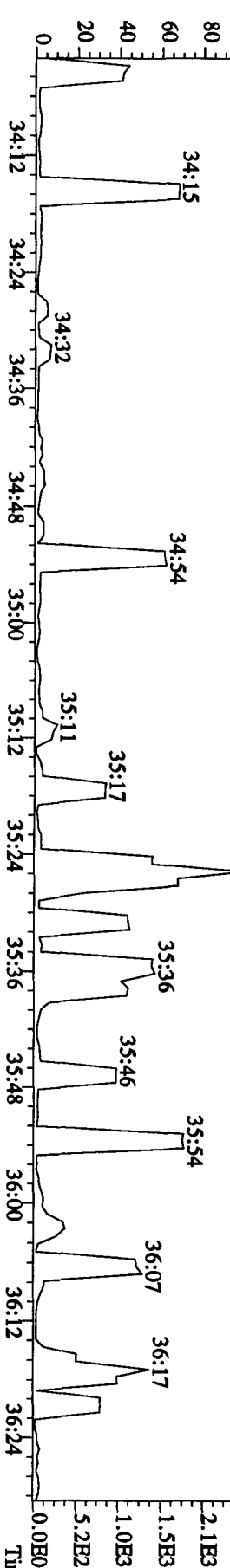
407.7818 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6212.0,1.00%,F,T) 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24



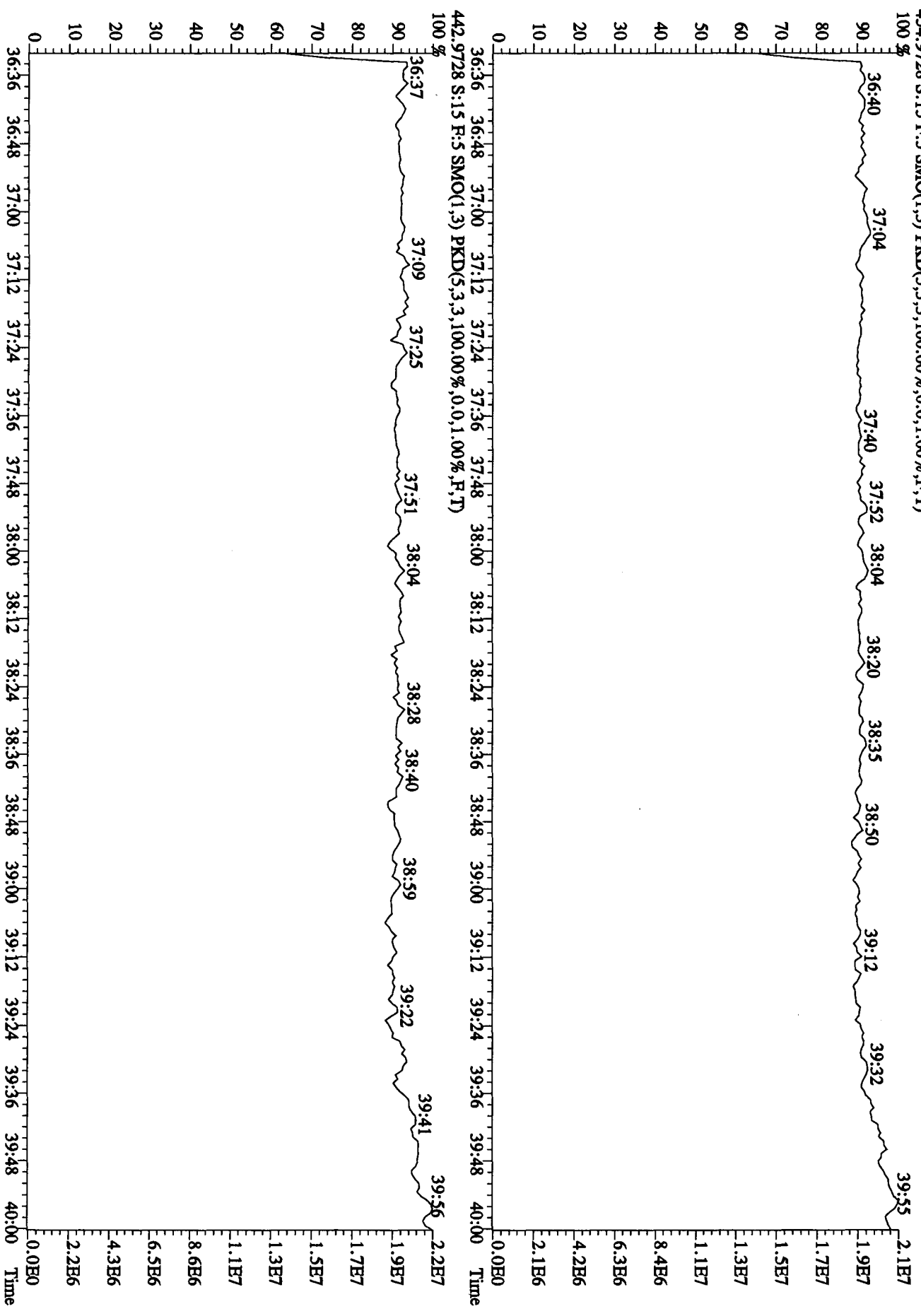
409.7789 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6276.0,1.00%,F,T) 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24



479.7165 S:15 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,60.0,1.00%,F,T) 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: 23DDE094D5 #1-281 Acq: 23-DEC-2009 19:02:12 GC EI + Voltage SIR Autospec-UltimaB
 Sample#15 Text: ST1222A : CS3 09DXN384 Exp: DIOXIN
 454.9728 S: 15 F: 5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Method ID 8290

Associated ICAL DB225102109502

Column ID DB225

Instrument ID 502

STD ID ST1223, ST1223A

STD Solution C53 09DXN384

Analyzed by KSS, AVP

Date Analyzed 12/23/09

Std. Pkg. By KSS

Date Std. Pkg. Assembled 12/28/09 (reprint)

Std. Pkg. Reviewed By MCW

Date Std. Pkg. Reviewed 12/28/09

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?*	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS: _____

* Method 8290/TO9/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.

Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.

Method 23: See Method 23 Daily Standard Criteria, Table 5.

Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,

** Method 23/0023A CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet

Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1223 File text: ST1223 :CS3 09DXN384
Run #6 Filename 23DE095D2 S: 1 I: 1
Acquired: 23-DEC-09 08:53:35 Processed: 23-DEC-09 14:25:12
Run: 23DE095D2 Analyte: DB225 Cal: DB2251021095D2 Results: 23DE095D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	144790000	0.80 y	14:23	-	100.00	-	n
13C-2,3,7,8-TCDF	262219000	0.78 y	15:29	1.81	100.00	-8.3	n
2,3,7,8-TCDF	31171900	0.78 y	15:30	1.19	10.00	0.8	n
13C-2,3,7,8-TCDD	141223200	0.79 y	14:09	0.98	100.00	0.5	n
2,3,7,8-TCDD	21547940	0.80 y	14:10	1.53	10.00	1.3	n
37Cl-2,3,7,8-TCDD	40557600	1.00 y	14:10	2.80	10.00	3.6	n

Run text: ST1222B File text: ST1222B :CS3 09DXN384
 Run #19 Filename 23DE095D2 S: 16 I: 1
 Acquired: 23-DEC-09 18:09:19 Processed: 23-DEC-09 18:45:50
 Run: 23DE095D2 Analyte: DB225 Cal: DB2251021095D2 Results: 23DE095D2DB225

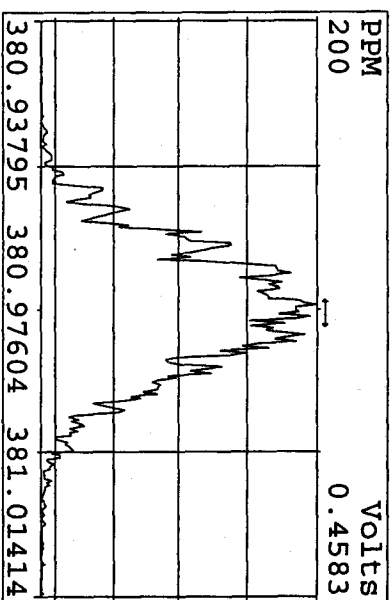
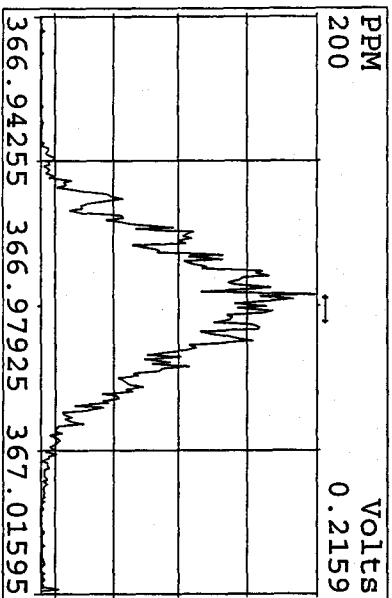
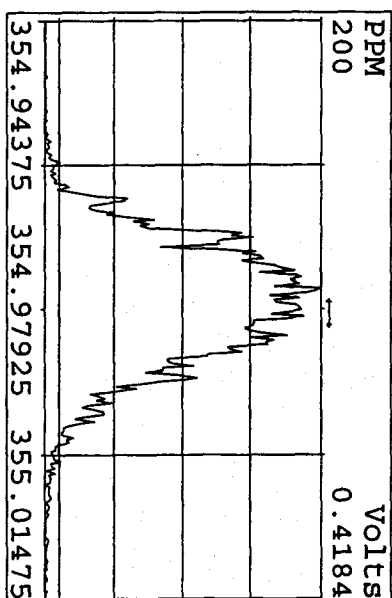
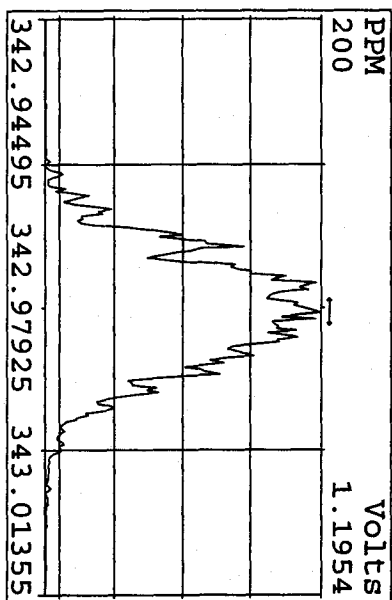
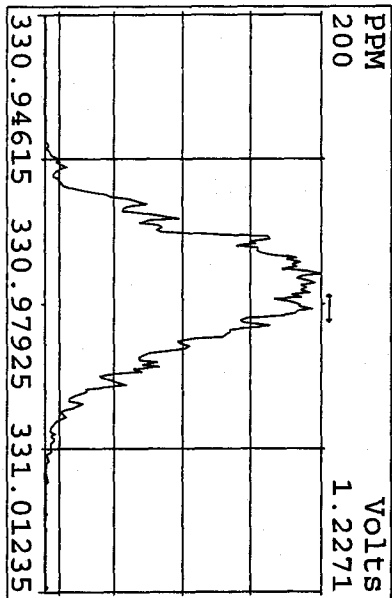
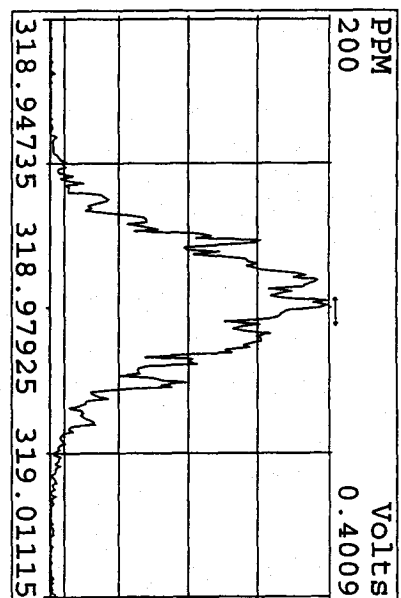
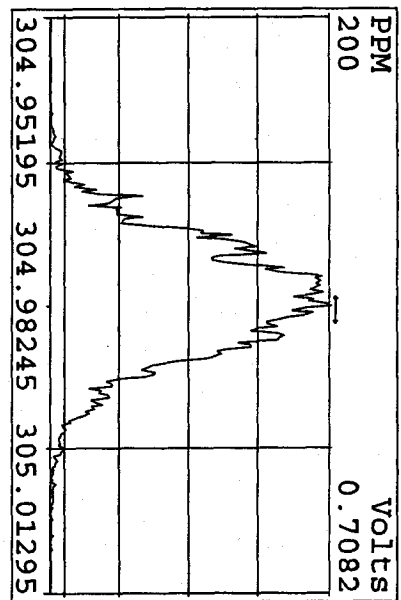
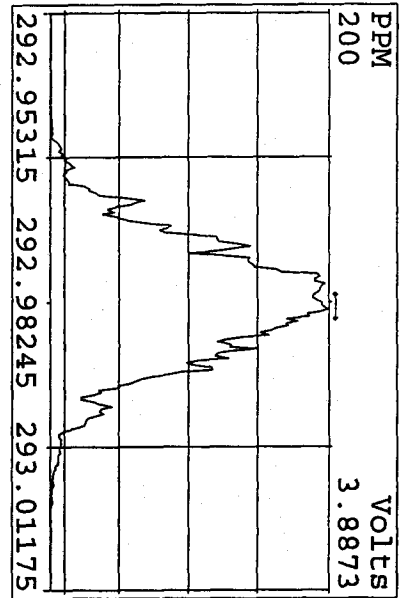
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	150932800	0.78 y	14:22	-	100.00	-	n
13C-2,3,7,8-TCDF	270904000	0.81 y	15:28	1.79	100.00	-9.1	n
2,3,7,8-TCDF	32313500	0.79 y	15:29	1.19	10.00	1.1	n
13C-2,3,7,8-TCDD	128452800	0.76 y	14:08	0.85	100.00	-12.3	n
2,3,7,8-TCDD	21013940	0.80 y	14:10	1.64	10.00	8.6	n
37C1-2,3,7,8-TCDD	39325600	1.00 y	14:09	2.61	10.00	-3.7	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
23DE095D2	1	ST1223	CS3 09DXN384				1.000	
23DE095D2	2	CP1223	DB-225 CPSM 3732-01				1.000	
23DE095D2	3	SB1223	Solvent Blank C-14				1.000	
23DE095D2	4	LRF9L-1-AA	G9L210000-435B (588MB)	10	8290/SOLID	70	10.000	g
23DE095D2	5	LQ2K8-2-AC	G9L120491-3RX	10	8290/SOLID		10.410	g
23DE095D2	6	LQ023-2-AC	G9L110588-22RX	10	8290/SOLID		10.310	g
23DE095D2	7	LQ027-2-AC	G9L110588-25RX	10	8290/SOLID	65	10.150	g
23DE095D2	8	LQ2K7-2-AC	G9L120491-2RX /	10	8290/SOLID	70	10.040	g
23DE095D2	9	LQ2K5-2-AC	G9L120491-1RX /	10	8290/SOLID		10.020	g
23DE095D2	10	LQ2LA-2-AC	G9L120491-5RX /	10	8290/SOLID		10.190	g
23DE095D2	11	LQ024-2-AC	G9L110588-23RX /	10	8290/SOLID	65	10.160	g
23DE095D2	12	LQ2K9-2-AC	G9L120491-4RX /	10	8290/SOLID	70	10.400	g
23DE095D2	13	LQ01L-1-AC	G9L110588-8	10	8290/SOLID	65	10.030	g
23DE095D2	14	LQ01N-1-AC	G9L110588-9	10	8290/SOLID		10.020	g
23DE095D2	15	SB1223	Solvent Blank C-14				1.000	
23DE095D2	16	ST1222B	CS3 09DXN384				1.000	
23DE095D2	17						1.000	
23DE095D2	18						1.000	
23DE095D2	19						1.000	
23DE095D2	20						1.000	
23DE095D2	21						1.000	
23DE095D2	22						1.000	
23DE095D2	23						1.000	
23DE095D2	24		KSS, AVP 12-23-09		LOGFILE ✓		1.000	
23DE095D2	25				12-23-09		1.000	

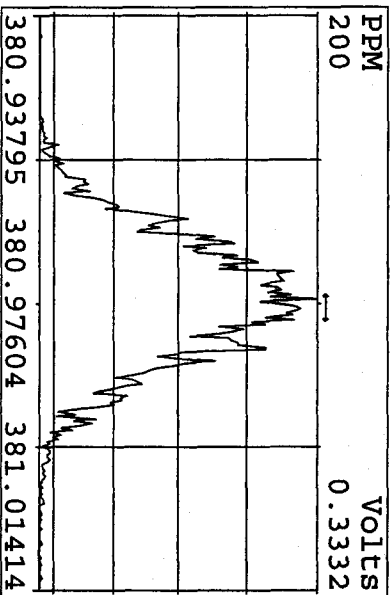
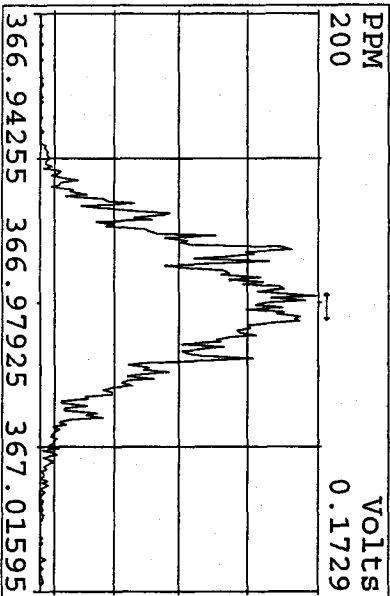
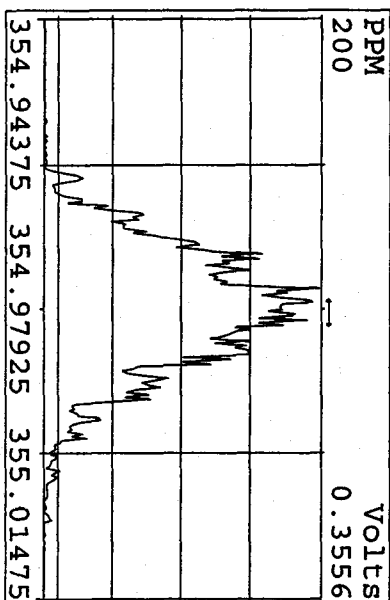
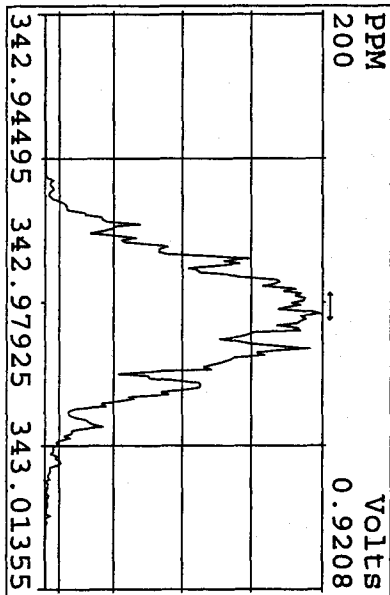
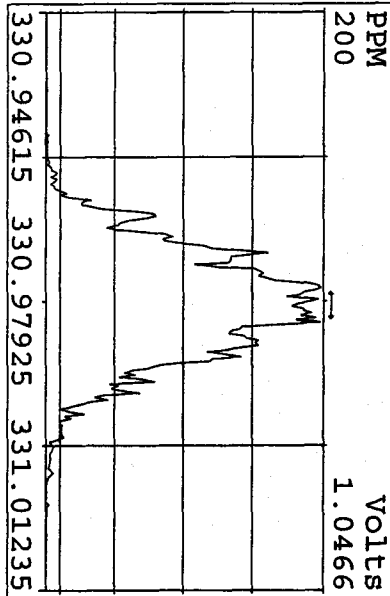
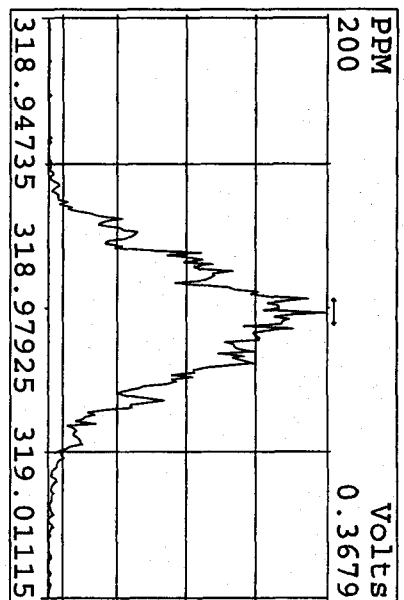
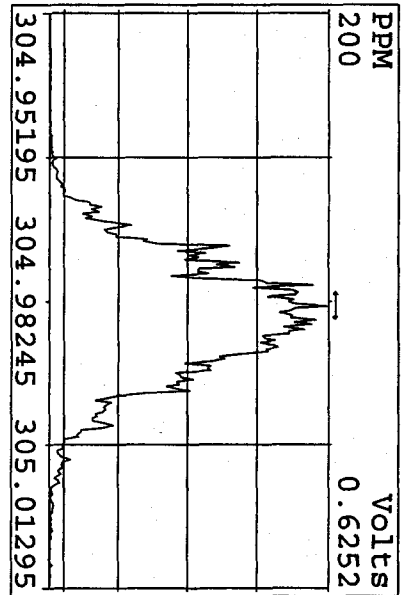
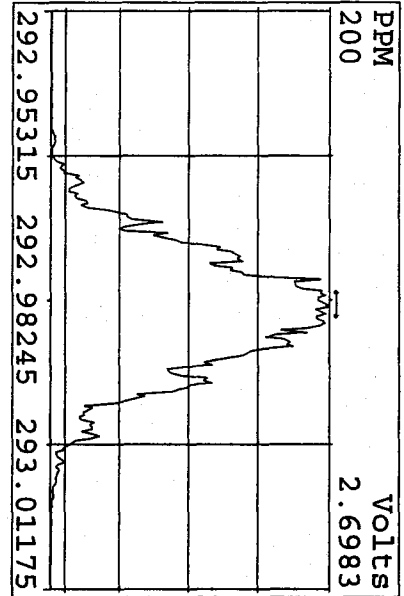
057
12-23-09

KSS

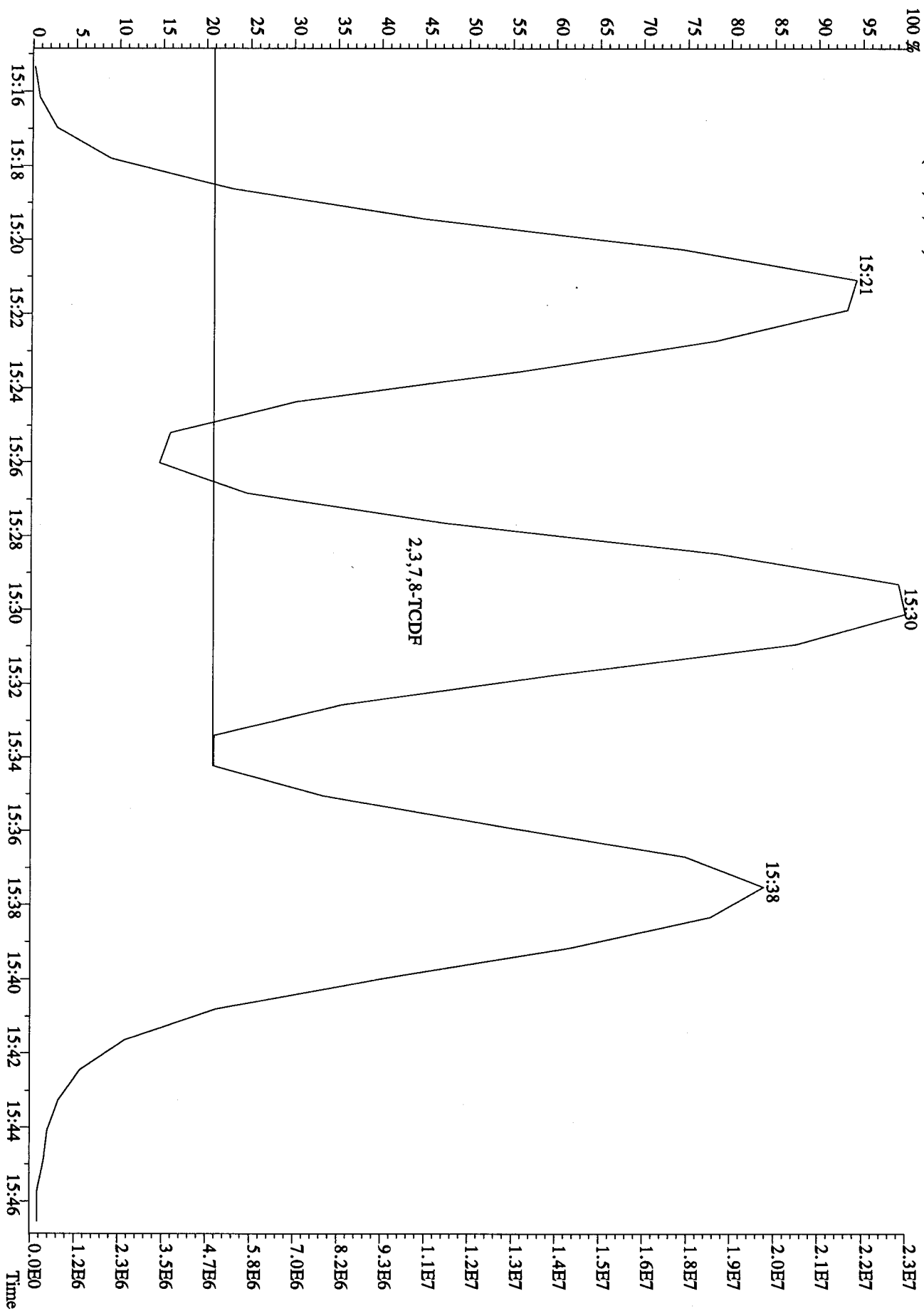
Peak Locate Examination: 23-DEC-2009:08:53 File: 23DE095D2
 Experiment: DB225 Function: 1 Reference: PFK



Peak Locate Examination: 23-DEC-2009: 18:57 File: RSSCHK233DE095D2
Experiment: DB225 Function: 1 Reference: PFK



File: 23DDE095D2 #1-1242 Acq: 23-DEC-2009 09:30:37 GC EI+ Voltage SIR 70SE
 Sample#2 Text: CP1223 :DB-225 CPSM 3732-01 Exp: DB225
 303.9016 S: 2 BSUB(128,15,-3.0)

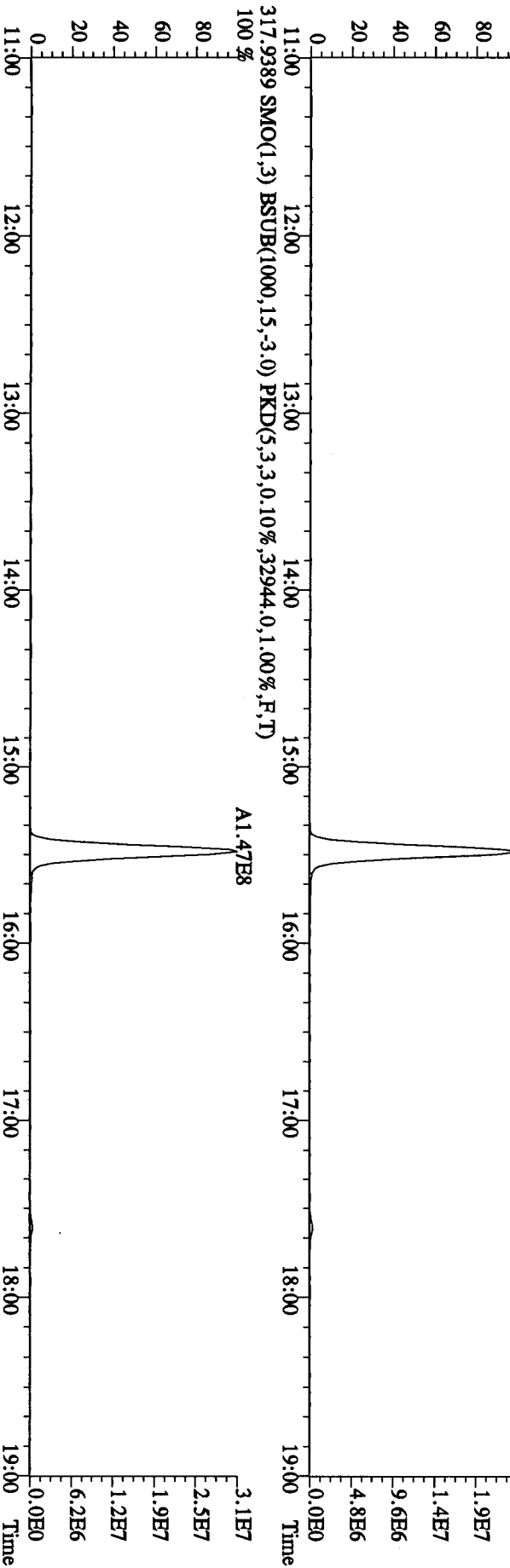
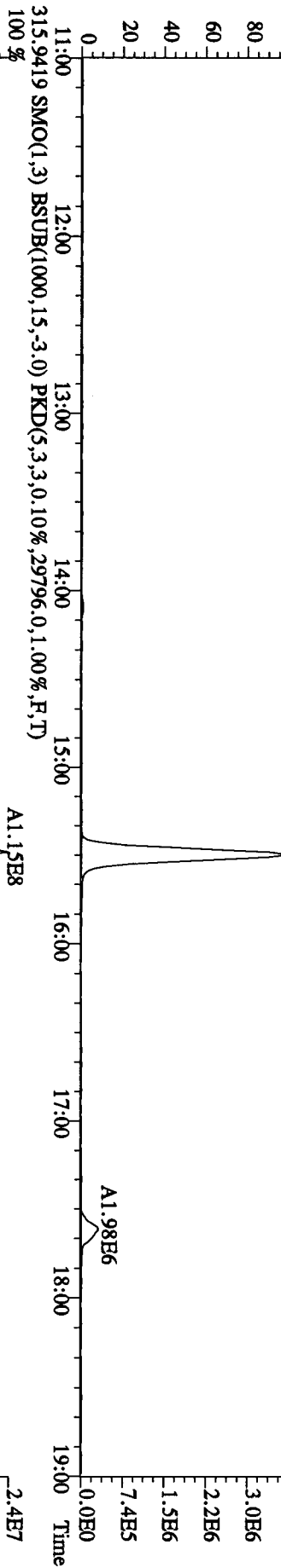
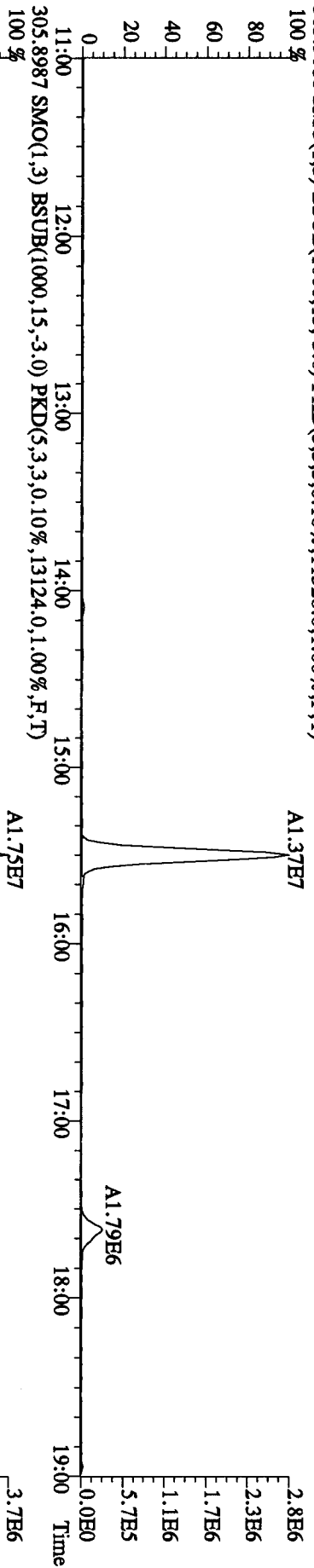


Run: 23DE095D2 Analyte: DB225 Cal: DB2251021095D2

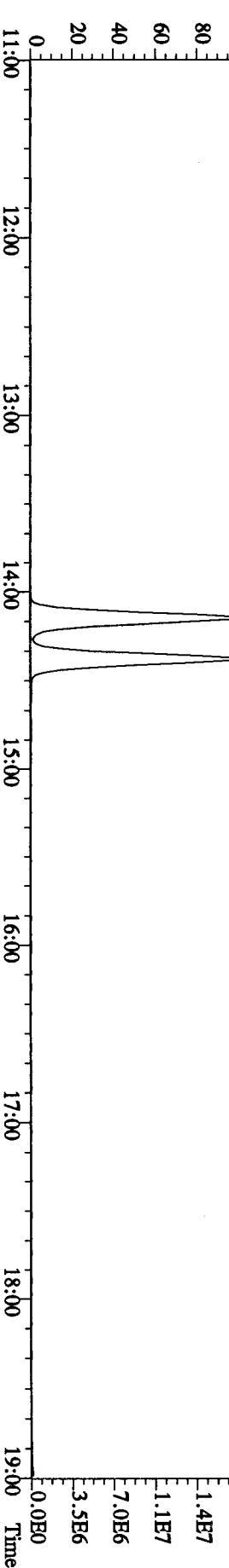
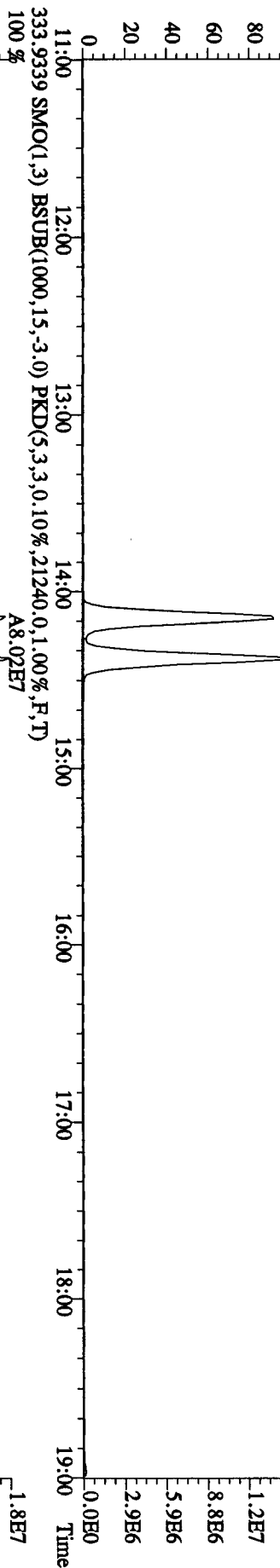
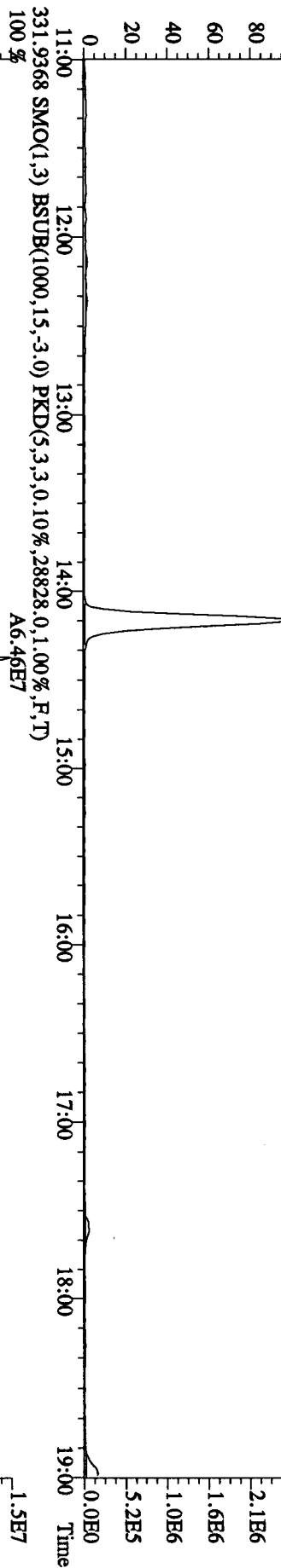
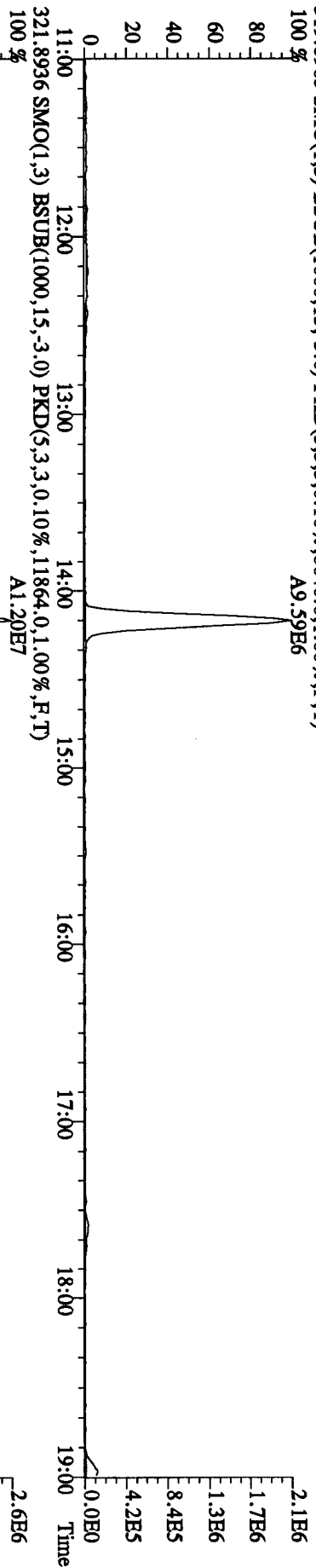
ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	210C095D2 210C095D2 210C095D2 210C095D2 210C095D2				
				S3 RRF1	S4 RRF2	S5 RRF3	S6 RRF4	S7 RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46
37Cl-2,3,7,8-TCDD	2.705	0.282	10.4 %	2.28	2.70	2.80	3.06	2.68

File: 23DE095D2 #1-1242 Acq: 23-DEC-2009 08:53:35 GC EI+ Voltage SIR 70SE
 Sample#1 Text: ST1223 :CS3 09DXN384 Exp: DB225
 303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11328.0,1.00%,F,T)
 100 %



File:23DBE095D2 #1-1242 Acq:23-DEC-2009 08:53:35 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST1223 :CS3 09DXN384 Exp:DB225
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8640.0,1.00%,F,T)
 100% A9.59E6

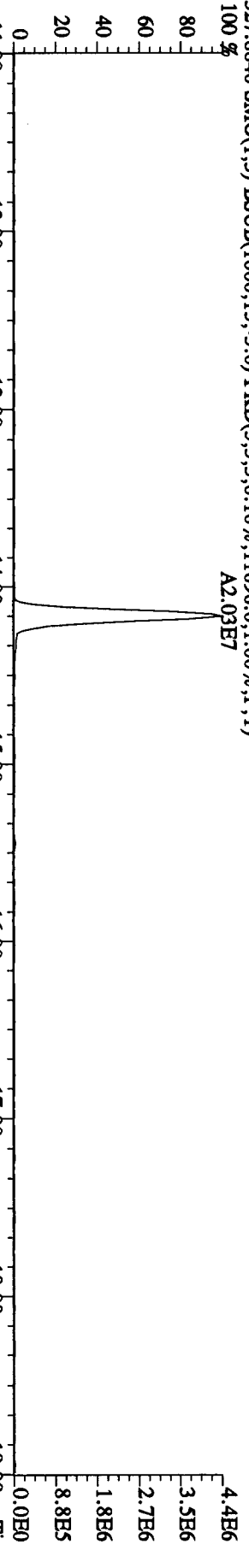


File:23DBE095D2 #1-1242 Acq:23-DEC-2009 08:53:35 GC EI+ Voltage SIR 70SE

Sample#1 Text:ST1223 :CS3 09DXN384 Exp:DB225

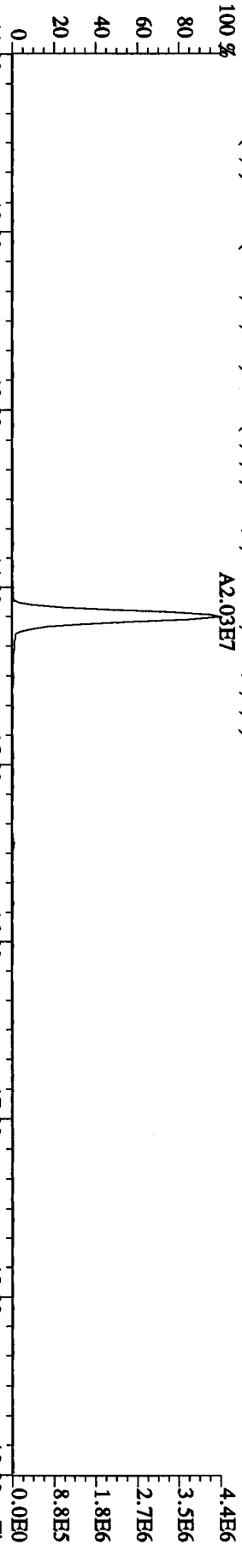
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11696.0,1.00%,F,T) 100 %

A2.03E7



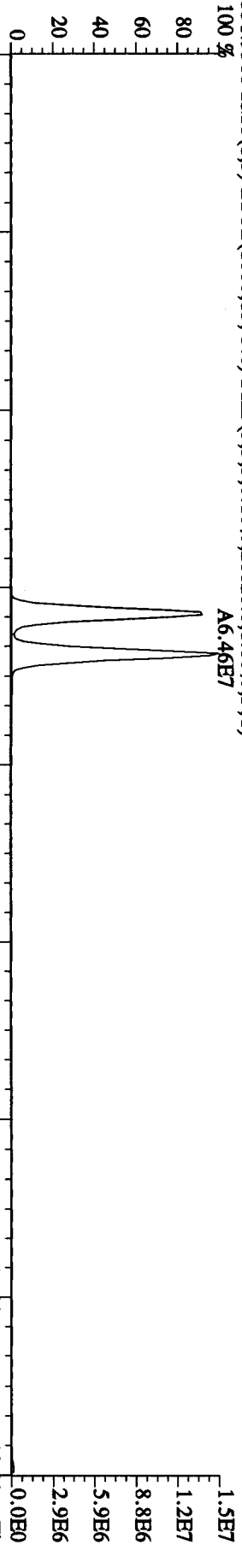
327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11696.0,1.00%,F,T) 100 %

A2.03E7



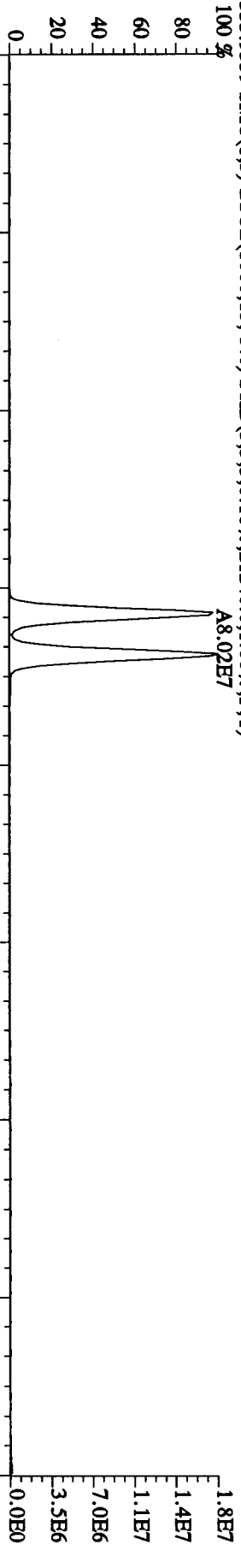
331.9368 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28828.0,1.00%,F,T) 100 %

A6.46E7

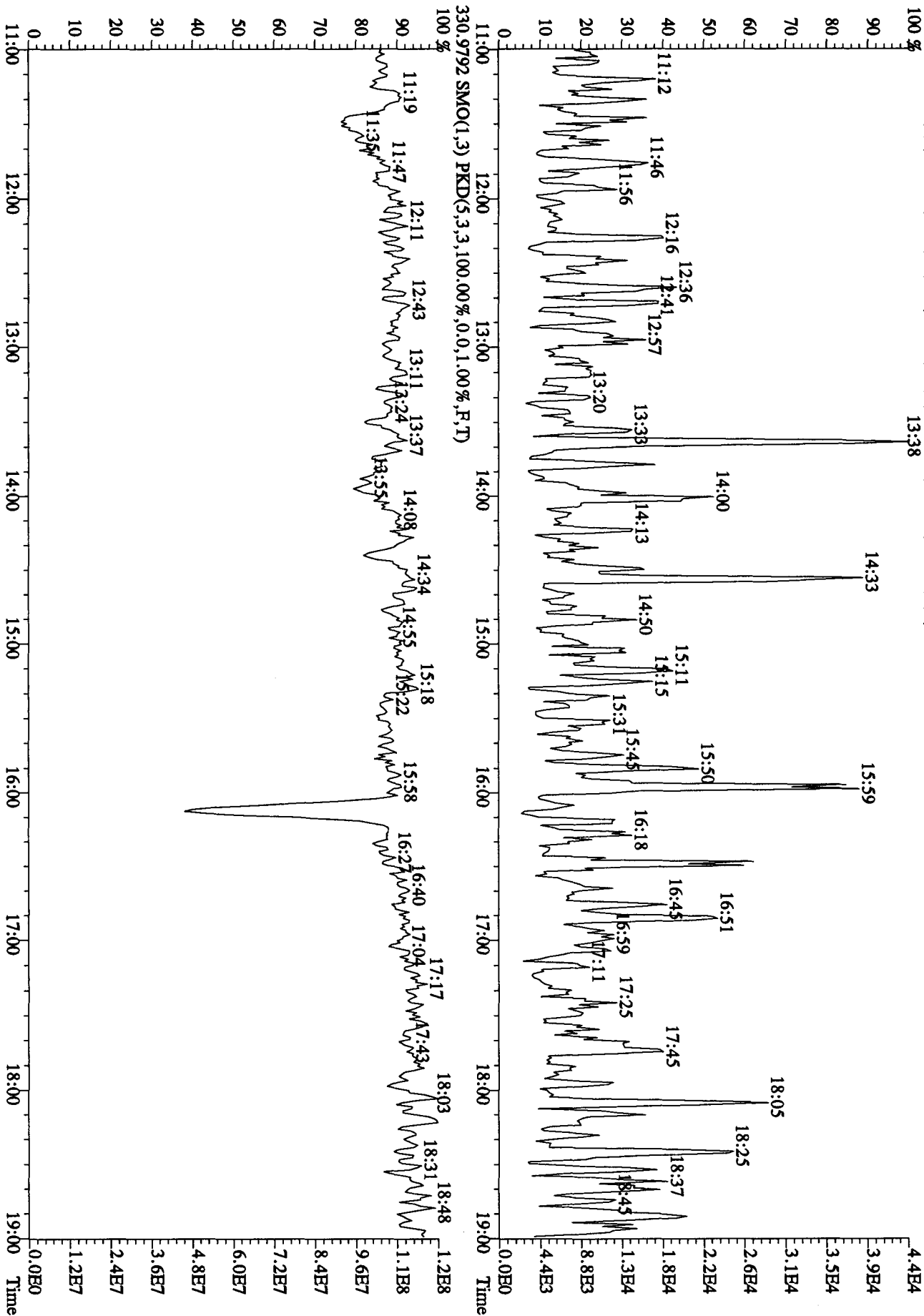


333.9339 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21240.0,1.00%,F,T) 100 %

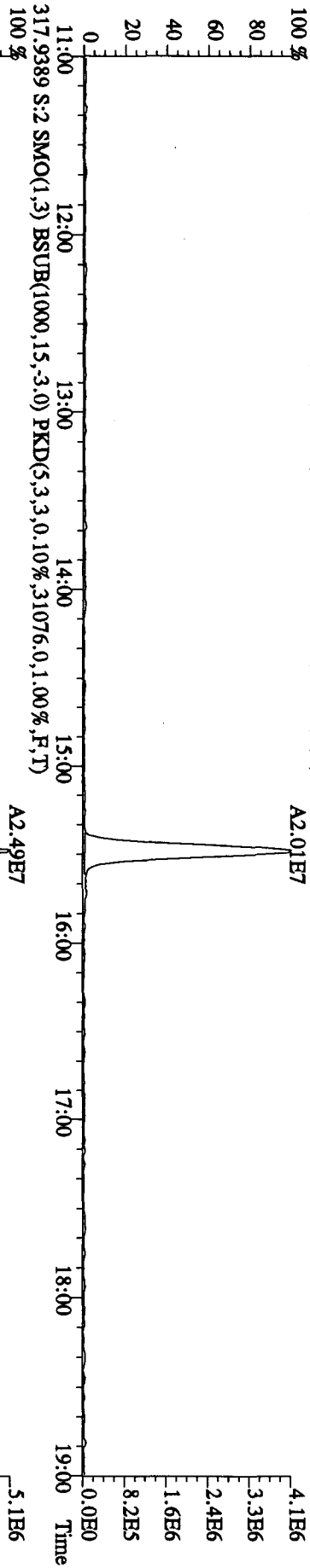
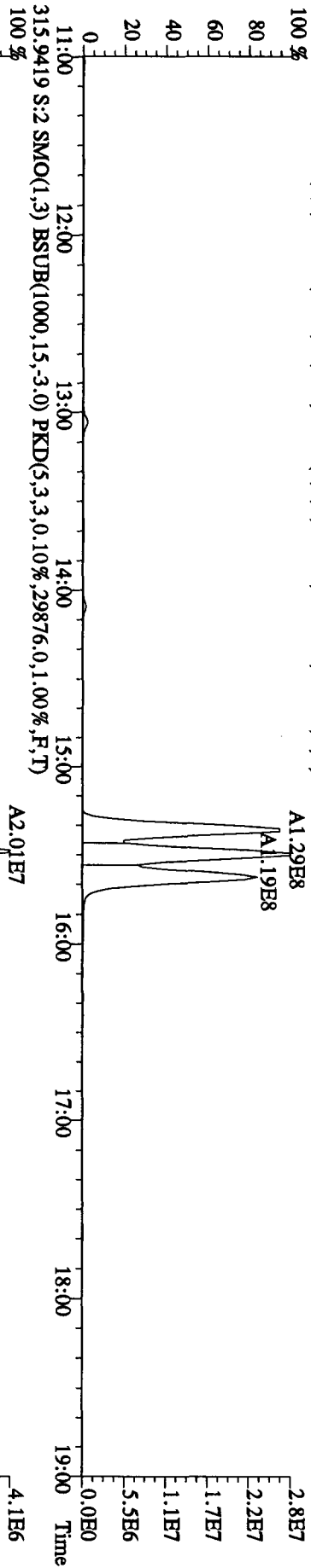
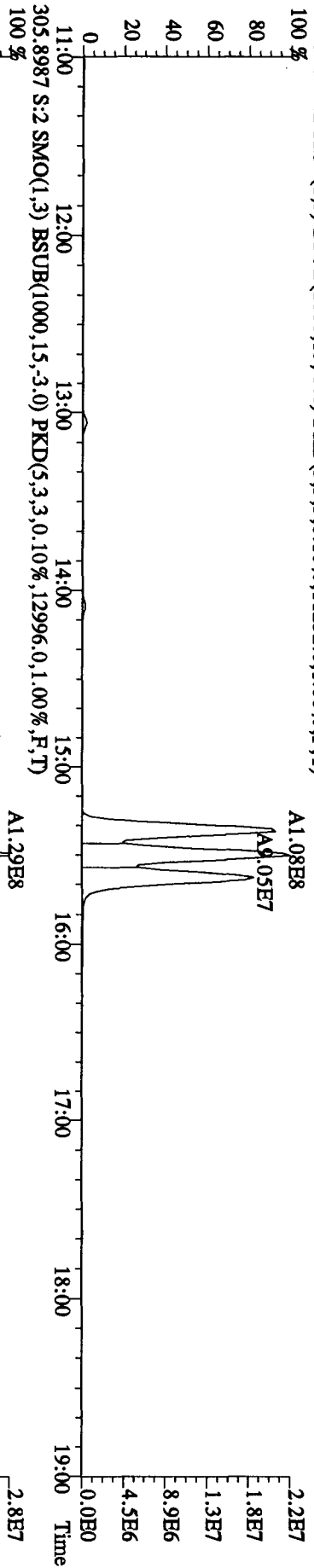
A8.02E7



File: 23DB095D2 #1-1242 Acq: 23-DEC-2009 08:53:35 GC EI+ Voltage SIR 70SE
 Sample#1 Text: ST1223 : CS3 09DXN384 Exp: DB225
 375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 100%



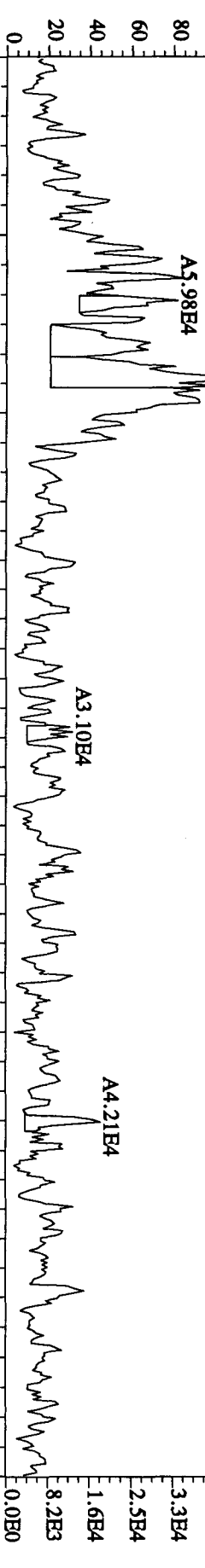
File:23DE095D2 #1-1242 Acq:23-DEC-2009 09:30:37 GC BI+ Voltage SIR 70SE
 Sample#2 Text:CP1223 :DB-225 CP5M 3732-01 Exp:DB225
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11252,0,1,00%,F,T)
 100 %



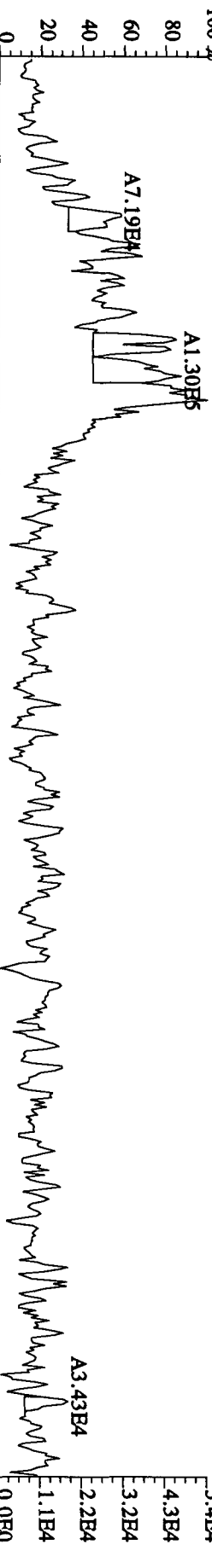
File:23DE095D2 #1-1242 Acq:23-DEC-2009 09:30:37 GC EI+ Voltage SIR 70SE

Sample#2 Text:CP1223 :DB-225 CP5M 3732-01 Exp:DB225

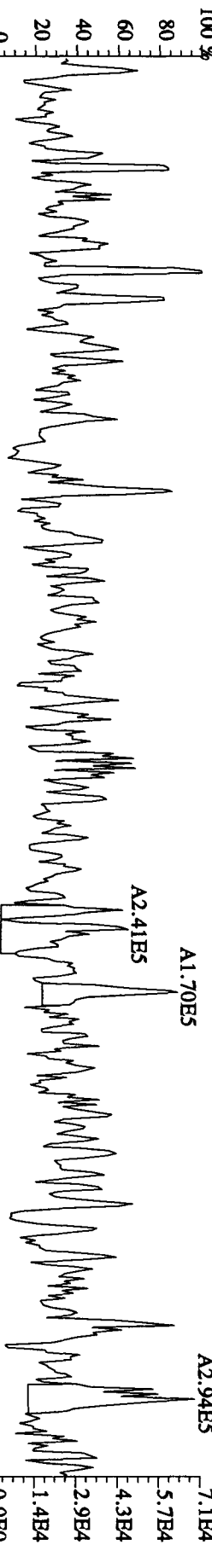
319.8965 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8496,0,1,00%,F,T)



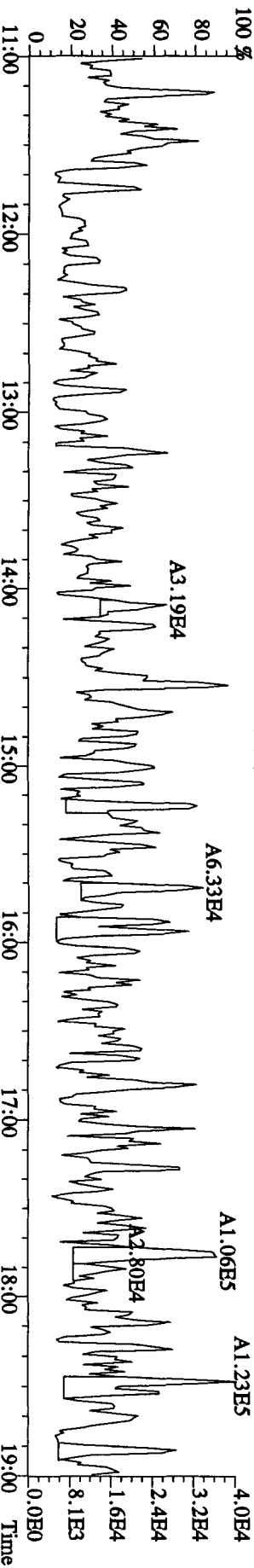
321.8936 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,11652,0,1,00%,F,T)



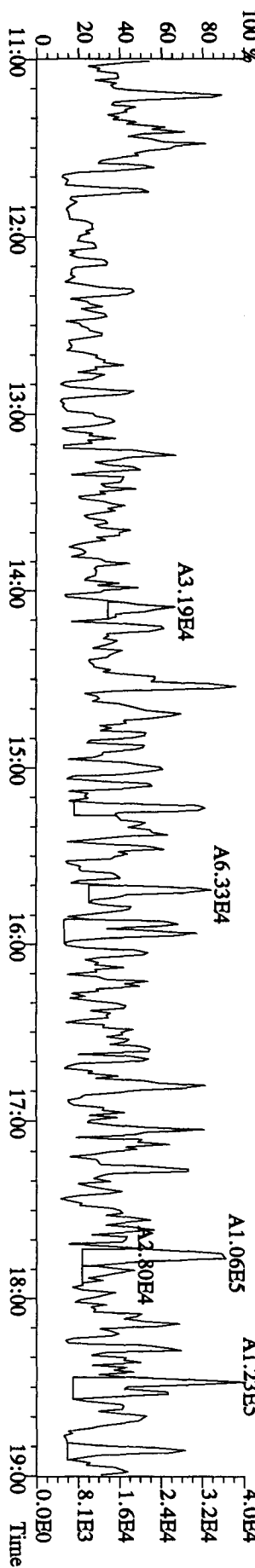
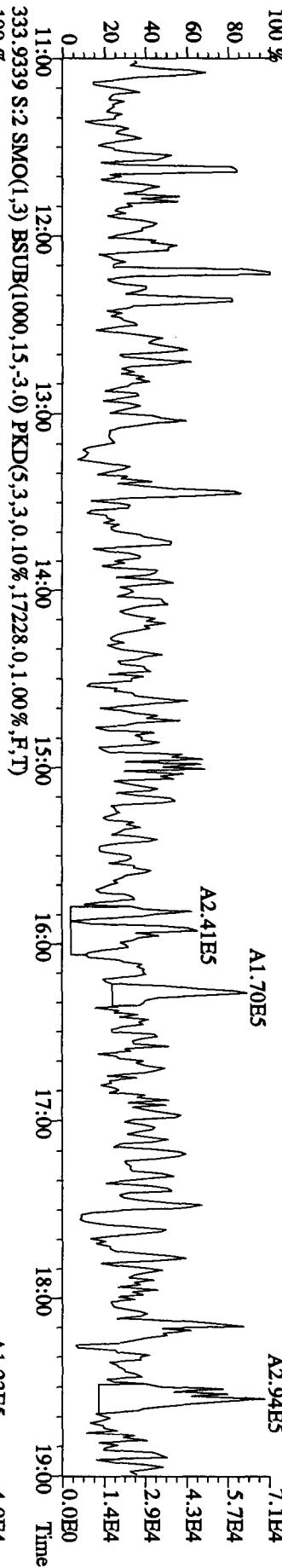
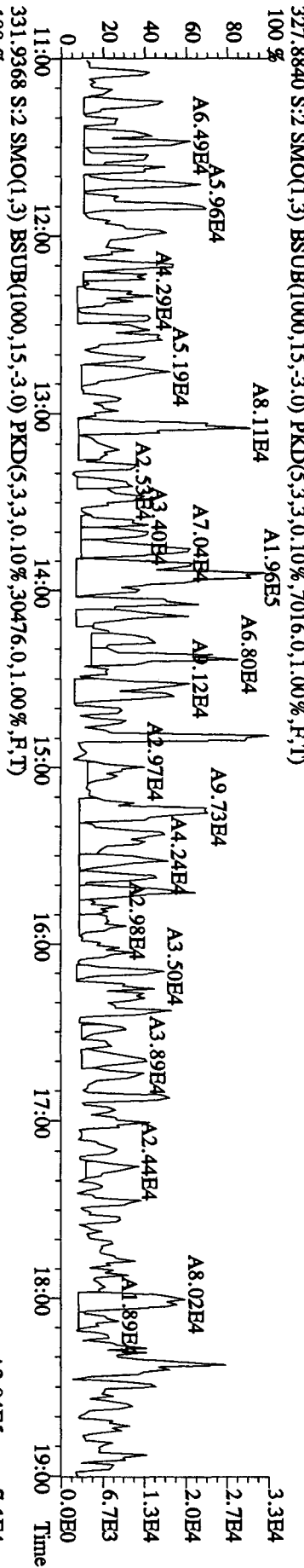
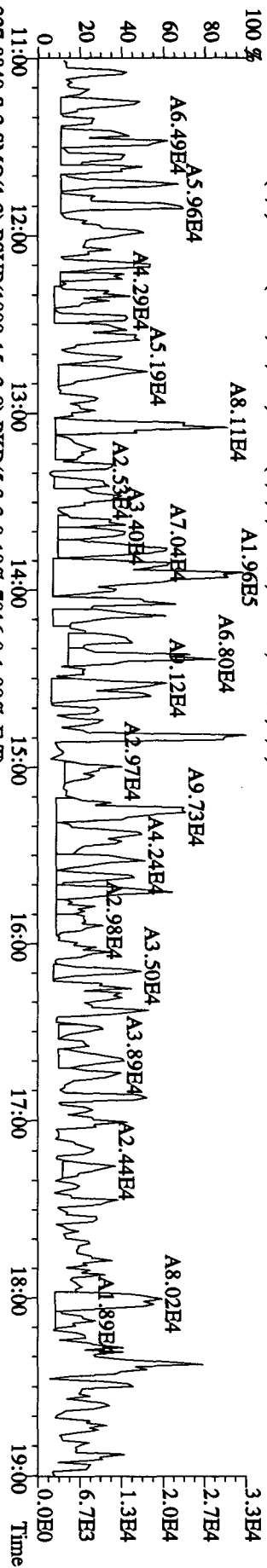
331.9368 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,30476,0,1,00%,F,T)



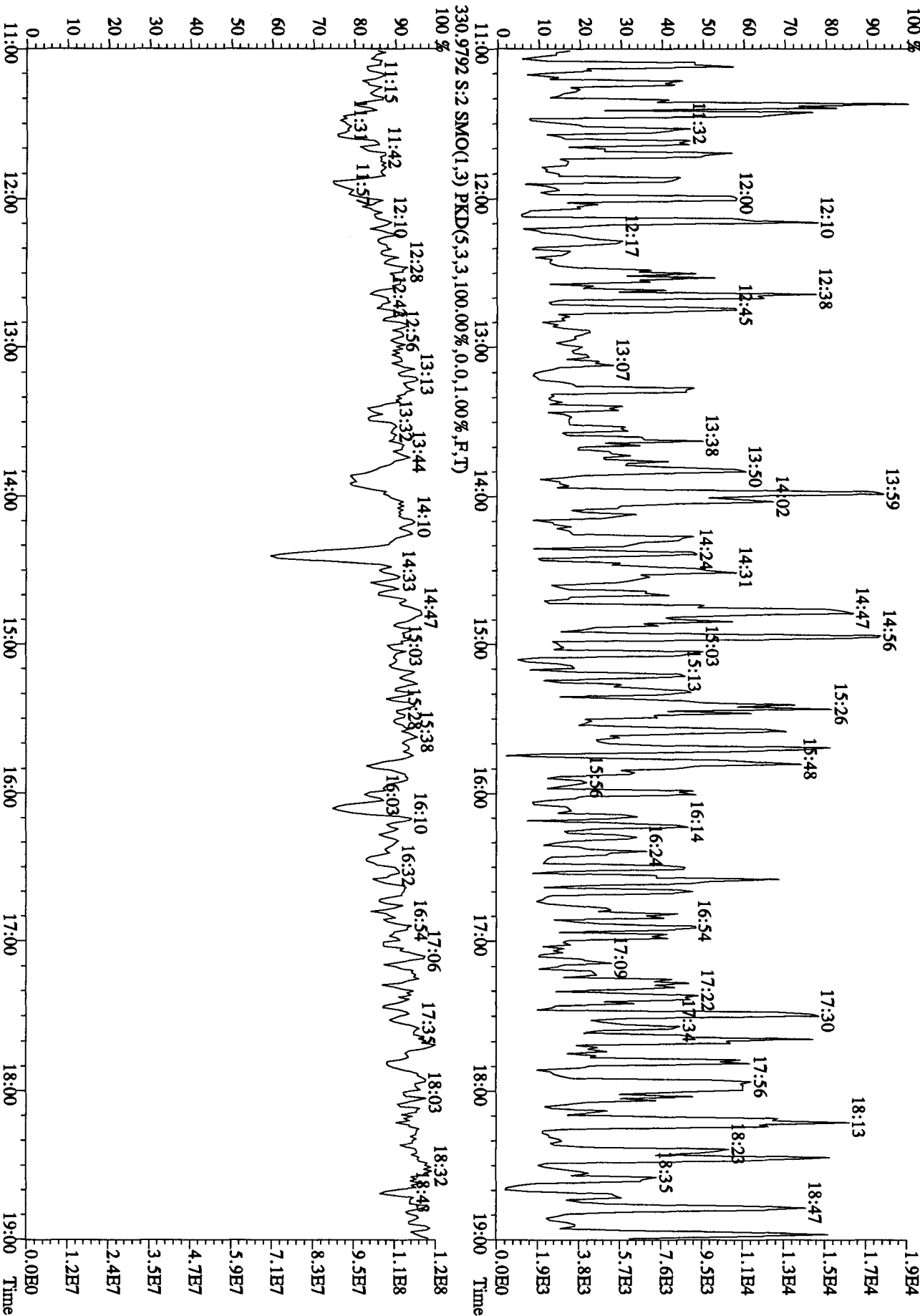
333.9939 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,17228,0,1,00%,F,T)



File:23DBE095D2 #1-1242 Acq:23-DEC-2009 09:30:37 GC EI+ Voltage SIR 70SE
Sample#2 Text:CP1223 :DB-225 CPM 3732-01 Exp:DB225
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7016,0,1.00%,F,T)
100 %



File: 23DB09SD2 #1-1242 Acq: 23-DEC-2009 09:30:37 GC EI + Voltage SIR 70SE
 Sample#2 Text: CP1223 : DB-225 CPISM 3732-01 Exp: DB225
 375.8364 S:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

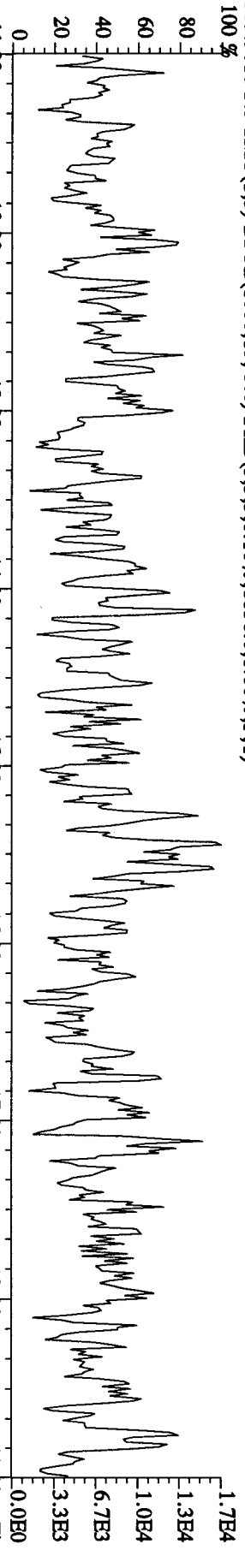


File:23DBE095D2 #1-1242 Acq:23-DEC-2009 10:07:38 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DB225

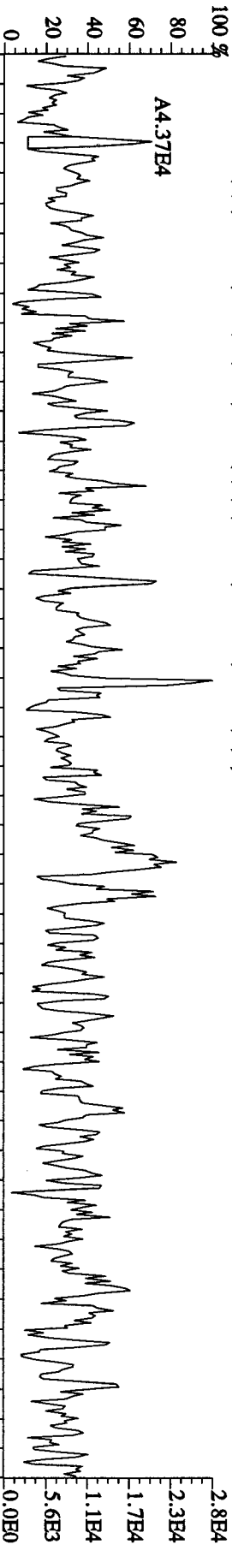
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8856,0,1,00%,F,T)

100 %



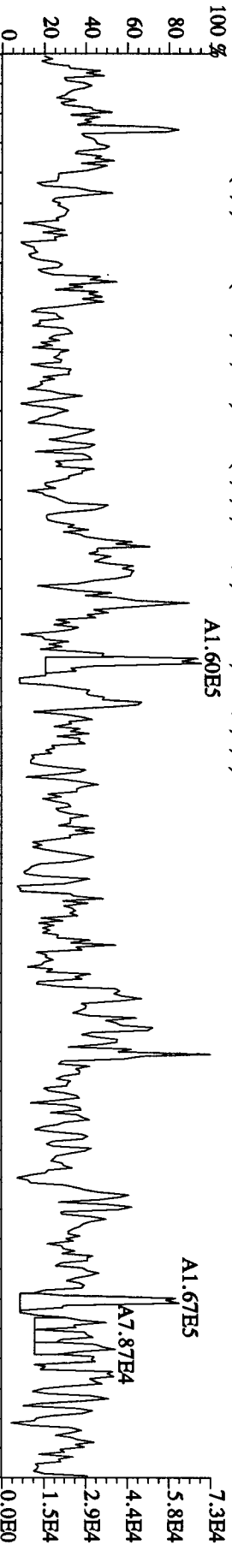
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11536,0,1,00%,F,T)

100 %



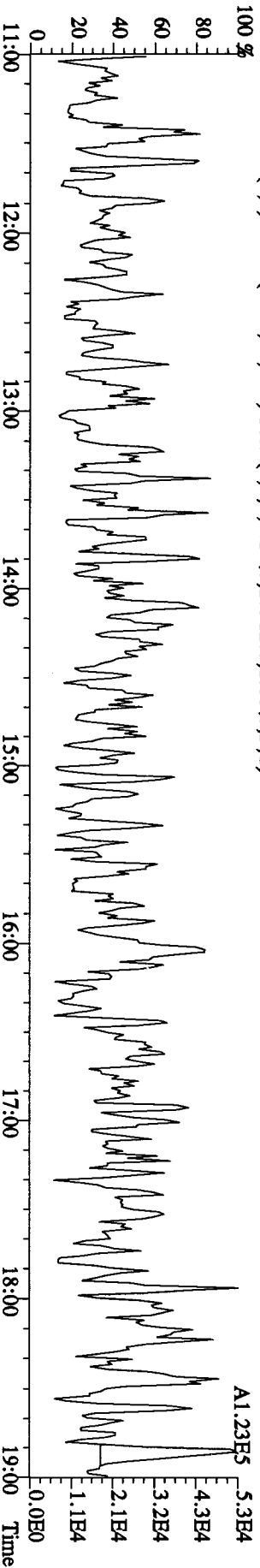
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,29516,0,1,00%,F,T)

100 %

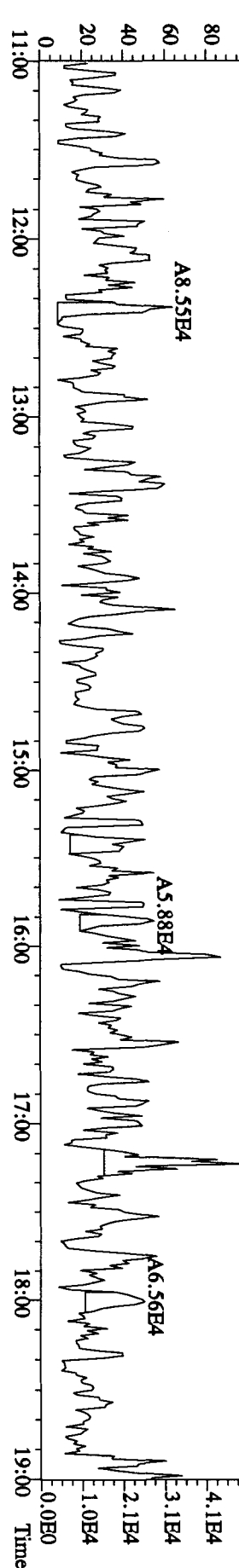
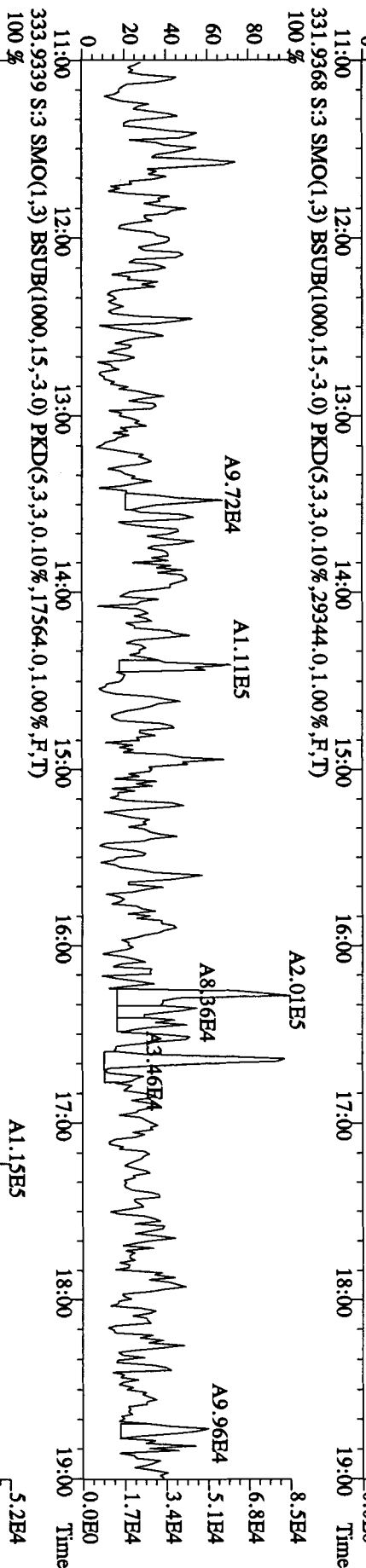
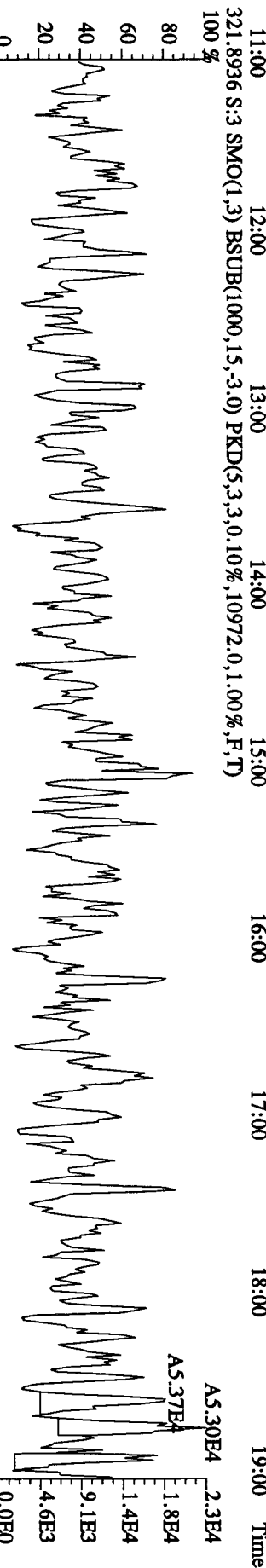
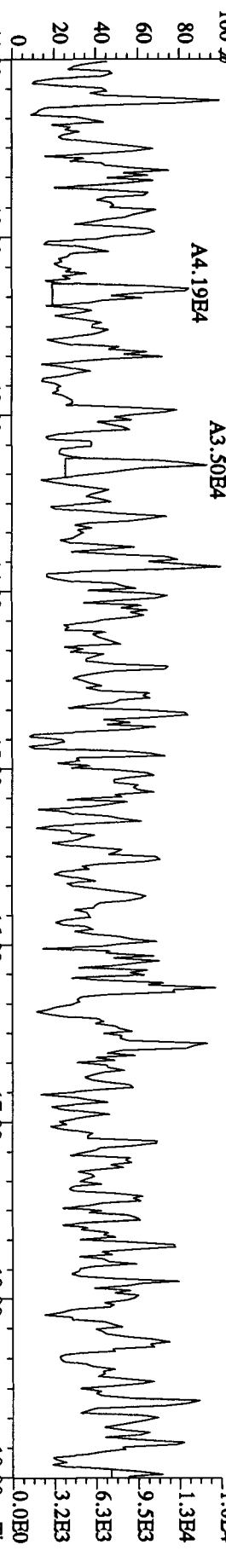


317.9389 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,25912,0,1,00%,F,T)

100 %



File:23DBE095D2 #1-1242 Acq:23-DEC-2009 10:07:38 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DB225
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8212.0,1.00%,F,T)

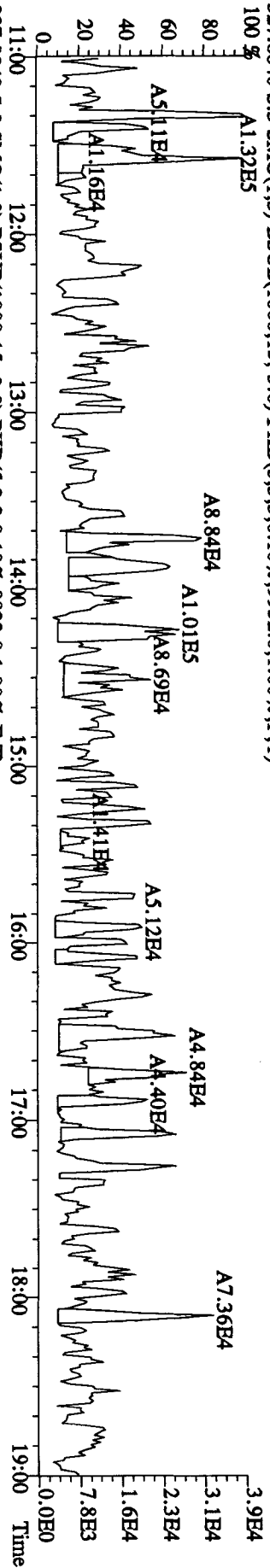


File:23DBE09SD2 #1-1242 Acq:23-DEC-2009 10:07:38 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB1223 :Solvent Blank C-14 Exp:DB225

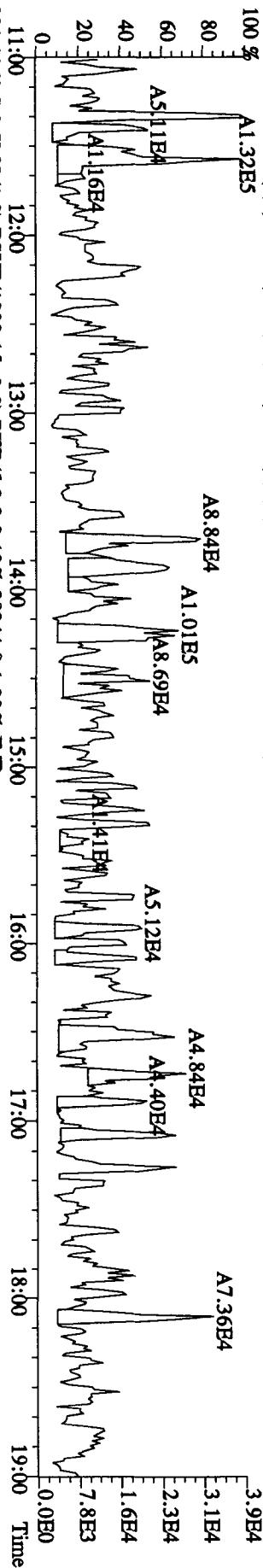
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9932.0,1.00%,F,T)

100 %



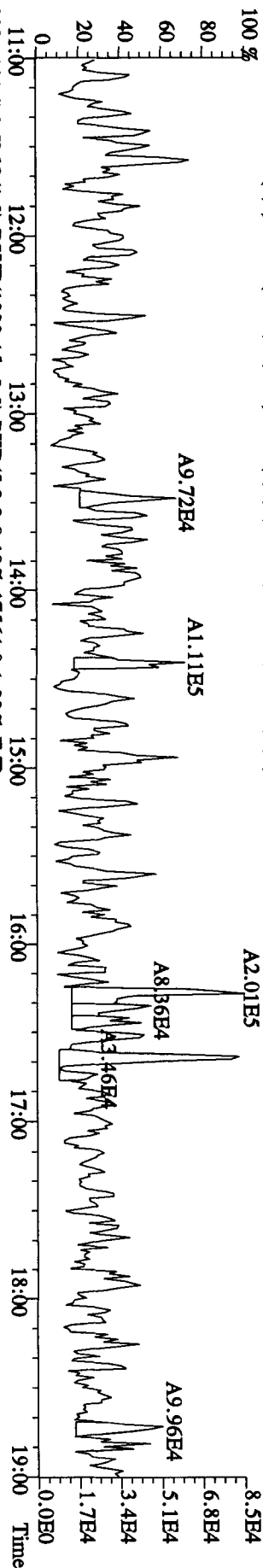
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9932.0,1.00%,F,T)

100 %



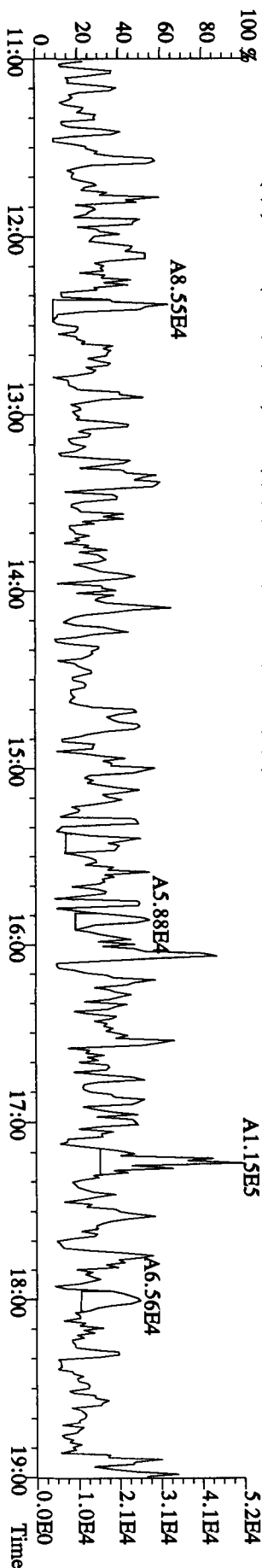
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,29344.0,1.00%,F,T)

100 %

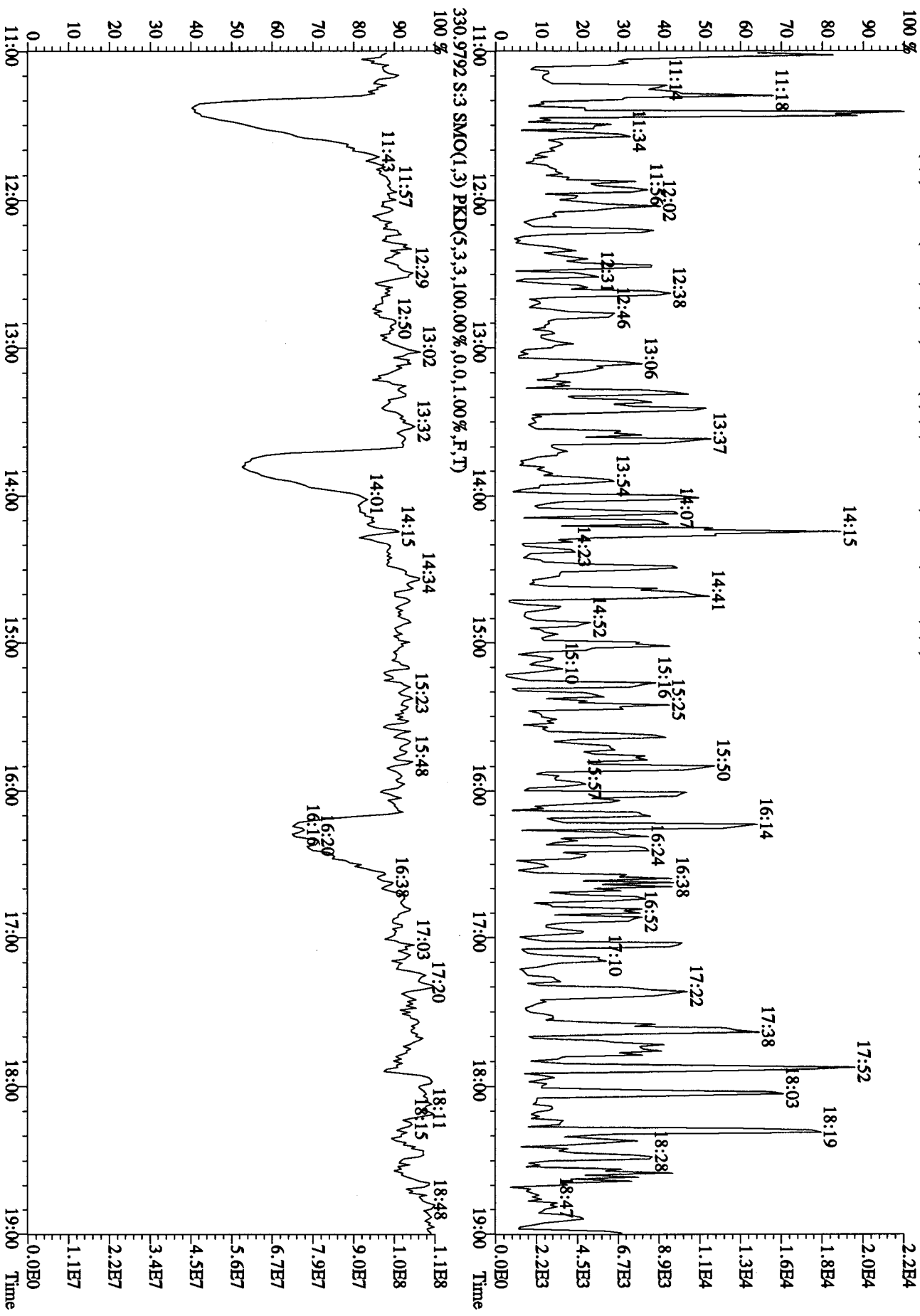


333.9339 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,17564.0,1.00%,F,T)

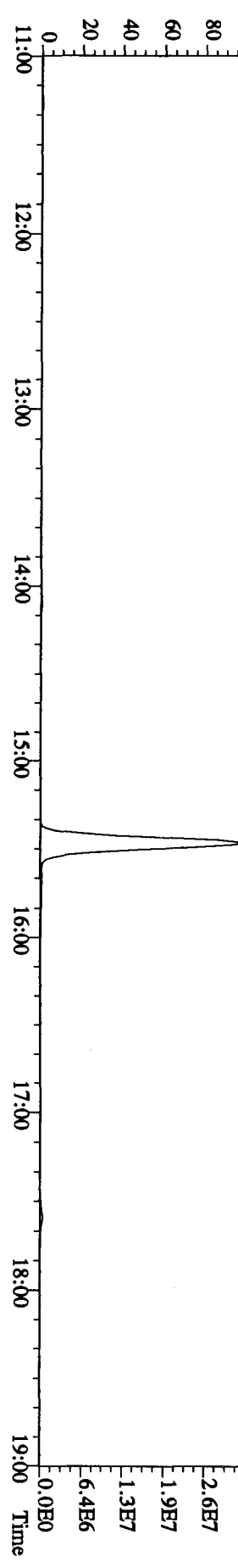
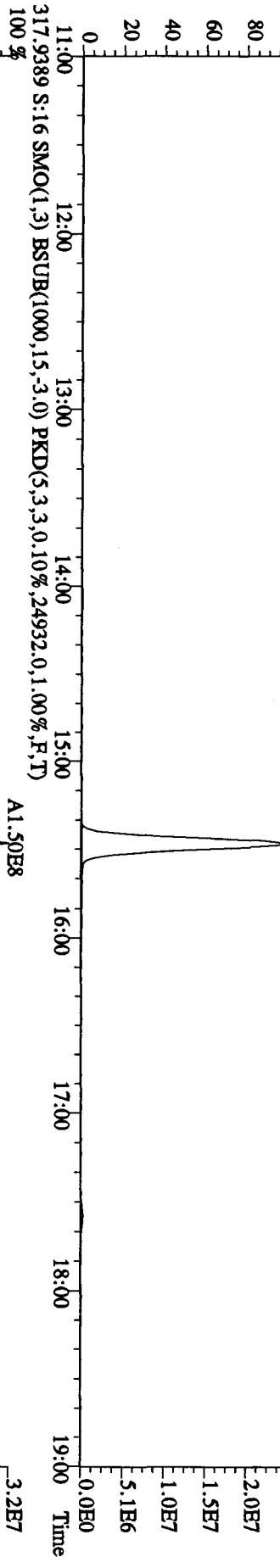
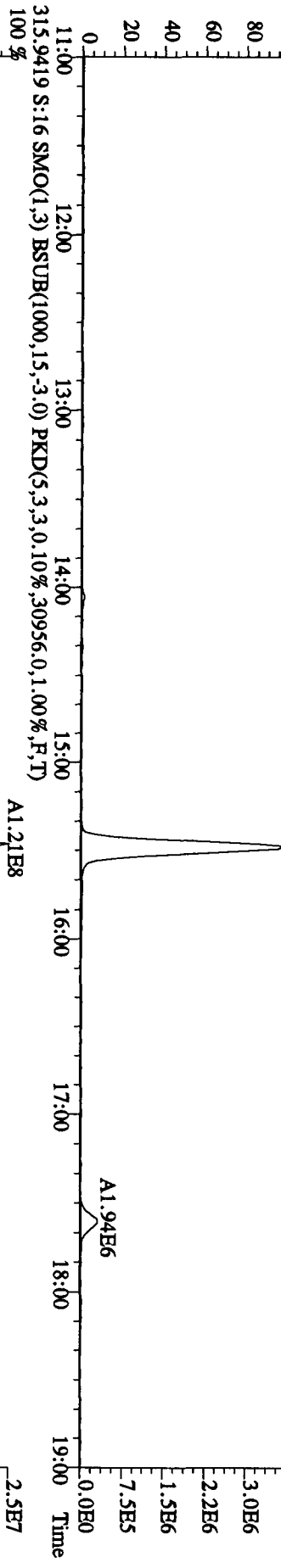
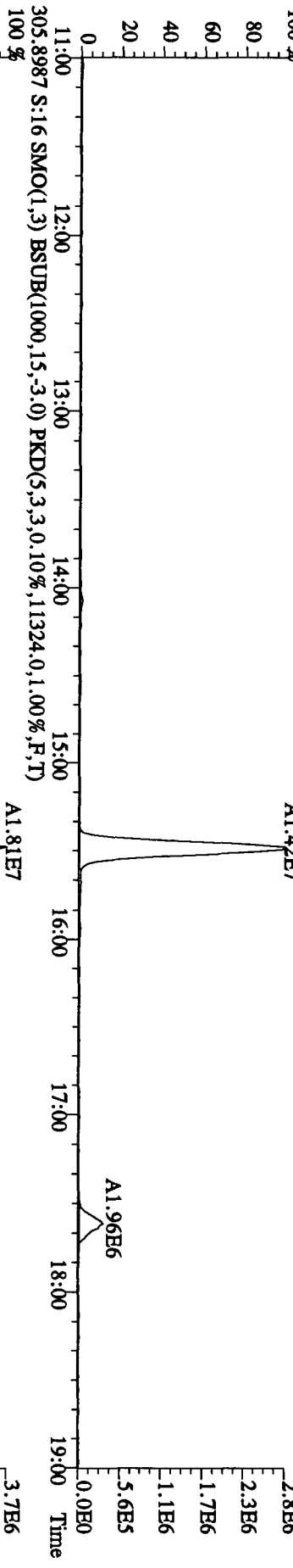
100 %



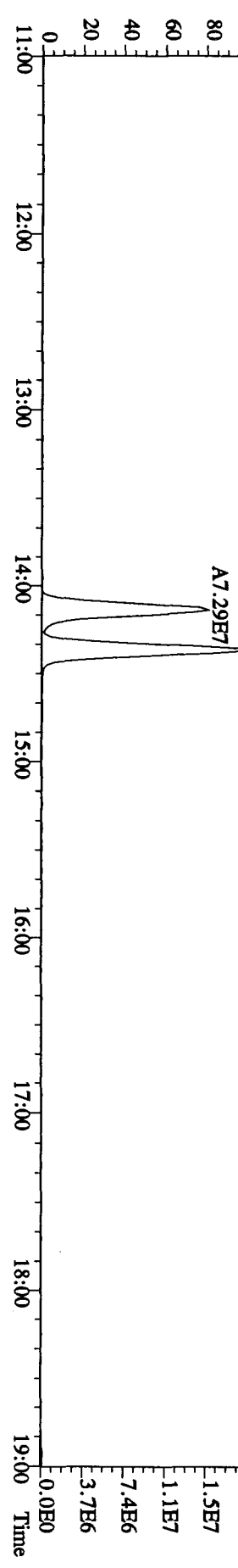
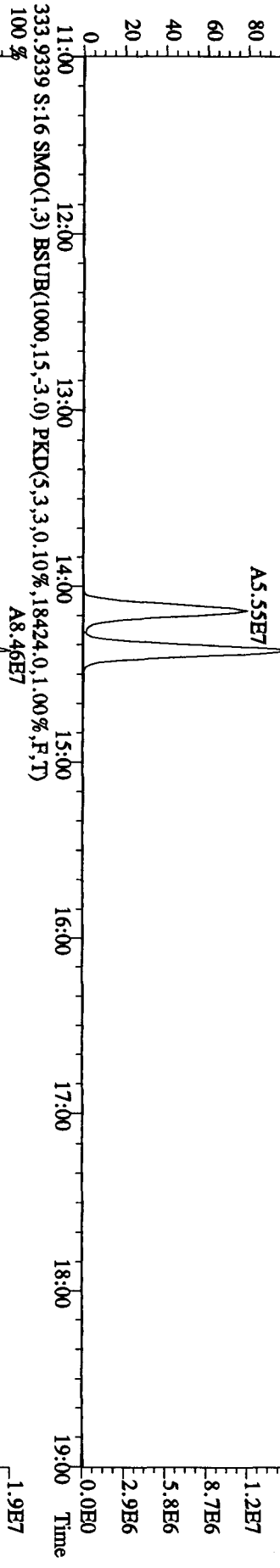
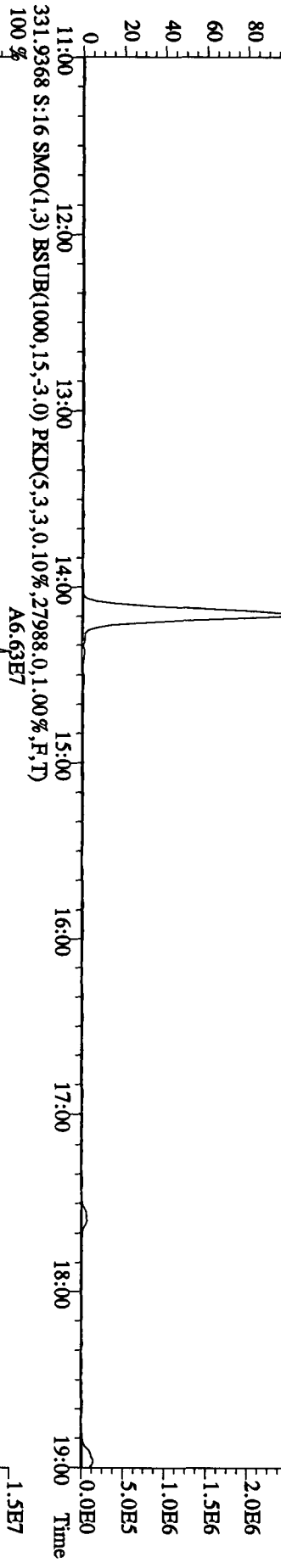
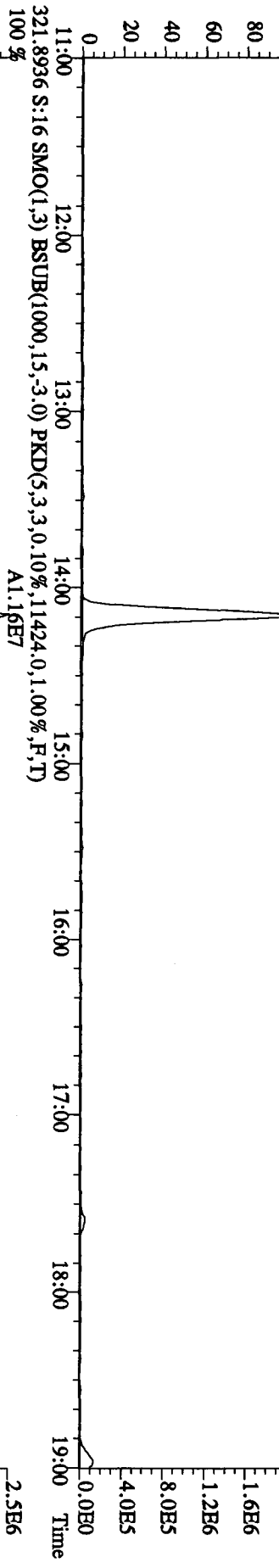
File: 23DE095D2 #1-1242 Acq: 23-DEC-2009 10:07:38 GC EI+ Voltage SIR 70SE
 Sample#3 Text: SB1223 :Solvent Blank C-14 Exp: DB225
 375.3364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3244,0,1.00%,F,T)
 100 %



File:23DBE09SD2 #1-1242 Acq:23-DEC-2009 18:09:19 GC EI+ Voltage SIR 70SE
 Sample#16 Text:ST1222B :CS3 09DXN384 Exp:DB225
 303.9016 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9328.0,1.00%,F,T)



File:23DB09SD2 #1-1242 Acq:23-DEC-2009 18:09:19 GC EI+ Voltage SIR 70SE
 Sample#16 Text:ST1222B :CS3 09DXN384 Exp:DB225
 319.8965 S:1.6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8036.0,1.00%,F,T)
 100% A9.37E6

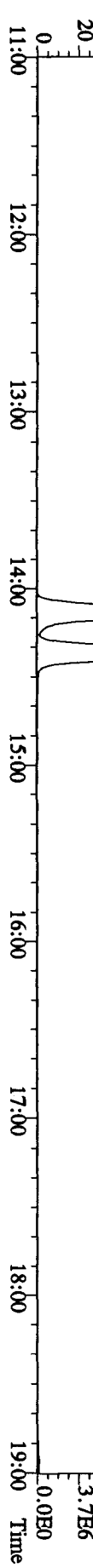
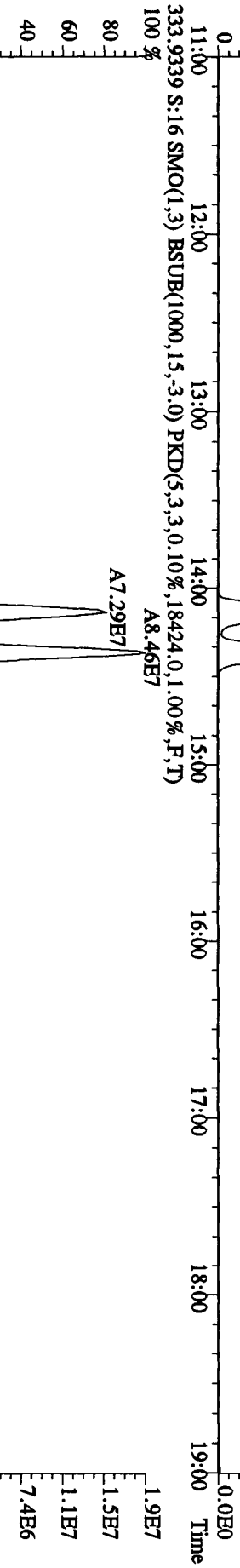
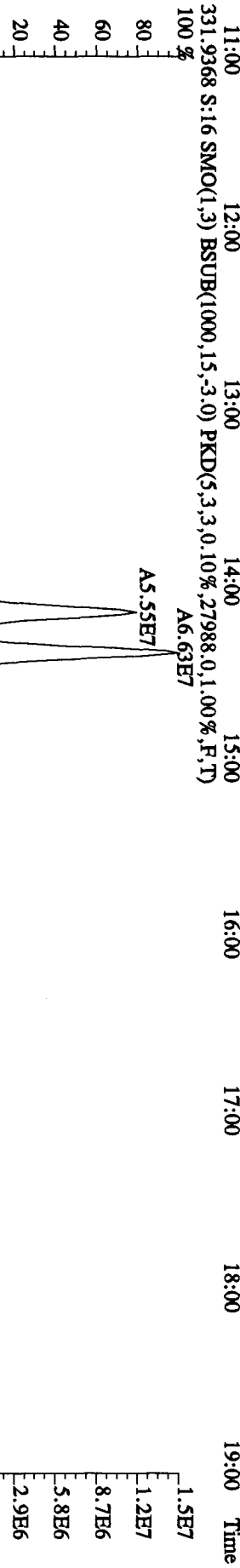
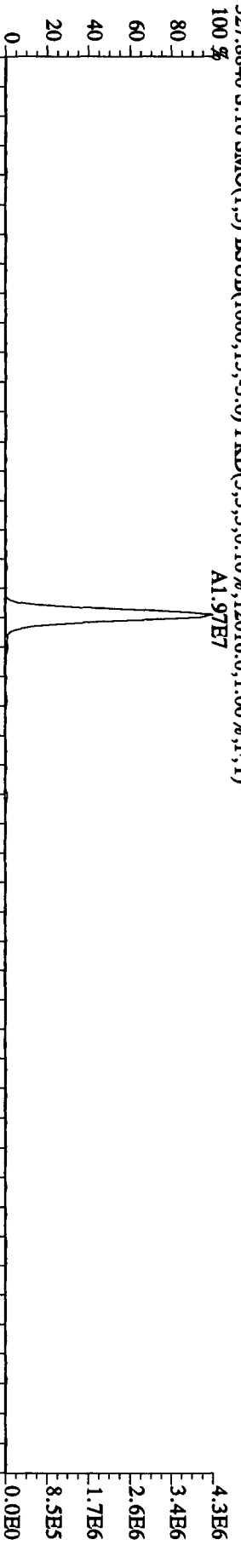
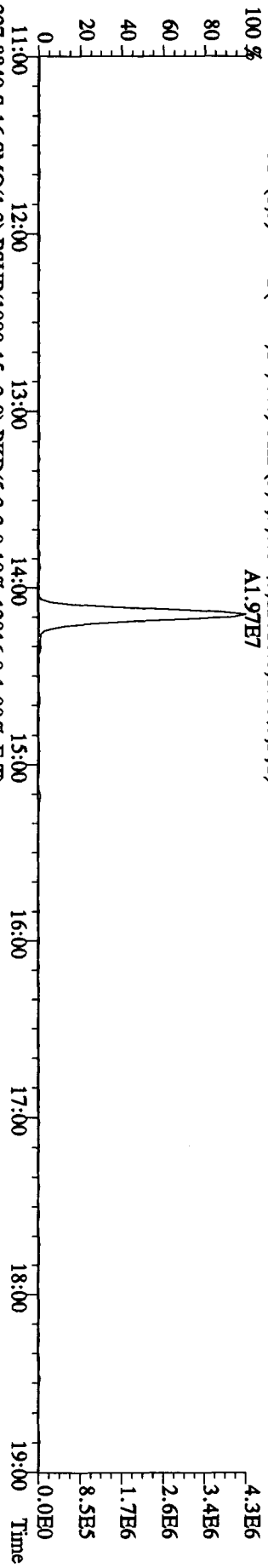


File:23DE095D2 #1-1242 Acq:23-DEC-2009 18:09:19 GC EI+ Voltage SIR 70SB

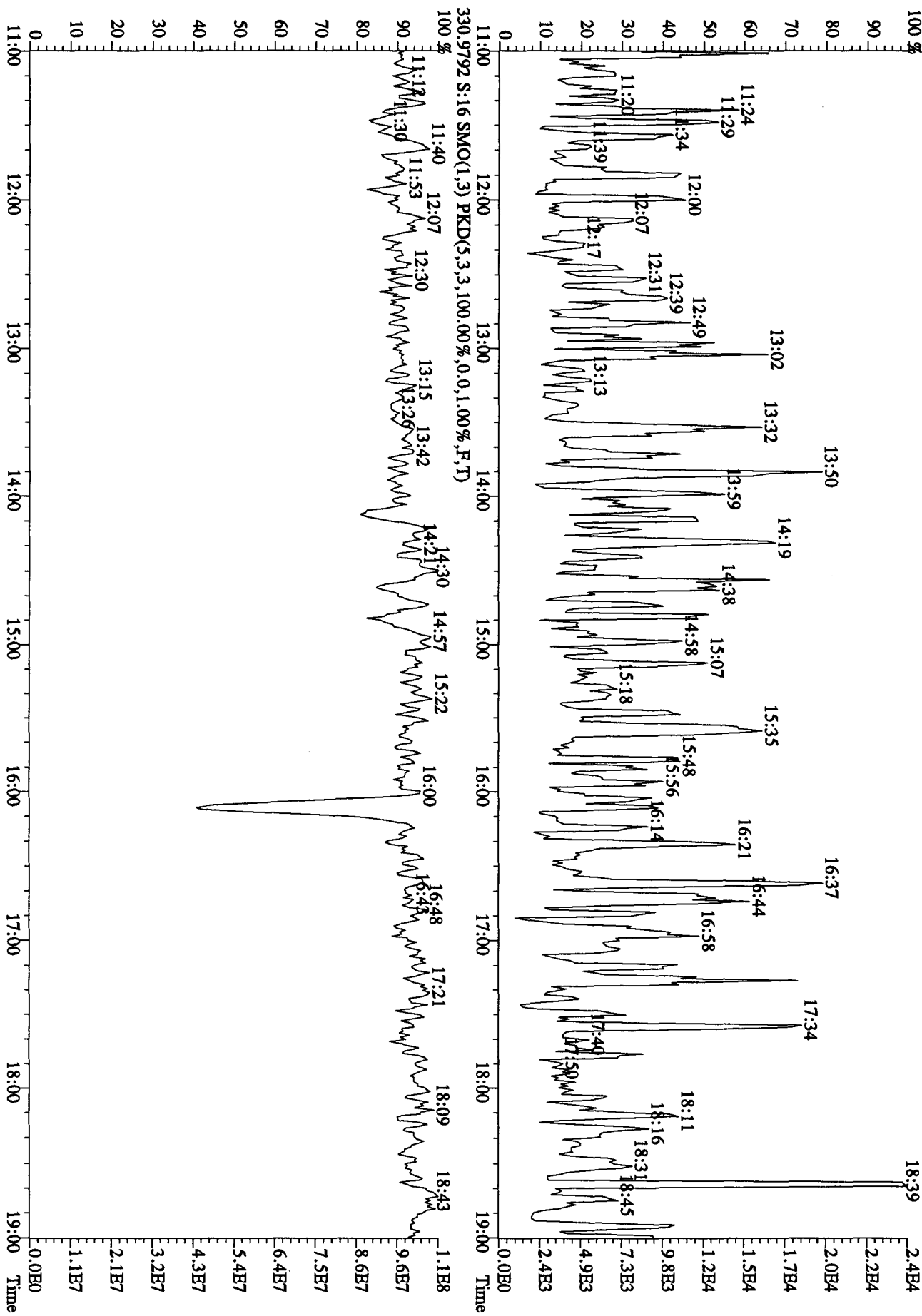
Sample#16 Text:ST1222B :CS3 09DXN384

Exp:DB225

327.8840 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12016,0,1.00%,F,T) A1.97E7



File: 23DB095D2 #1-1242 Acq: 23-DEC-2009 18:09:19 GC EI+ Voltage SIR 70SE
 Sample#16 Text: ST1222B : CS3 09DXN384 Exp: DB225
 375.8364 S:16 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,6120,0,1.00%,F,T)



Daily Calibration Checklist Dioxin Methods

Method ID 8290

Associated ICAL DB225102109502

Column ID DB225

Instrument ID 502

STD ID ST1223C, ST1223D

STD Solution CS3 090XN324

Analyzed by AM

Date Analyzed 12/23/09, 12/24/09

Std. Pkg. By KSS

Date Std. Pkg. Assembled 12/24/09

Std. Pkg. Reviewed By McG

Date Std. Pkg. Reviewed 12/24/09

DAILY STANDARD PACKAGE	INITIATED	REVIEWED
Standard, CPSM, and Solvent Blank present?	✓	✓
Copy of log-file and Beginning Static Resolution present?	✓	✓
CPSM blow up present?	✓	✓
Curve Summary present?	✓	✓
Summary of Method criteria present or documented below?	✓	✓
Daily standard within method specified limits?*	✓	✓
Analyte retention times correct?	✓	✓
Isotopic ratios within limits?	✓	✓
CPSM valley ≤ method specified limits?*	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS: _____

* Method 8290/TO9/M0023A: (beginning) ≤ 20% from curve RRFs for native analytes, ≤ 30% from curve RRFs for labeled compounds.
 Method 8290/TO9/M0023A: (ending) ≤ 25% from curve RRFs for native analytes, ≤ 35% from curve RRFs for labeled compounds.
 Method 23: See Method 23 Daily Standard Criteria, Table 5.
 Method 1613B: See, Method 1613B or Method 1613B Tetras Daily Standard Criteria,
 ** Method 23/0023A CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the smallest peak of the triplet
 Method 1613B/8290/TO9 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST1223C

File text: CS3 09DXN384

Run #6 Filename 23DE09A5D2 S: 1

I: 1

Acquired: 23-DEC-09 23:01:07

Processed: 23-DEC-09 23:31:57

Run: 23DE09A5D2 Analyte: DB225

Cal: DB2251021095D2

Results: 23DE09A5D2DB225

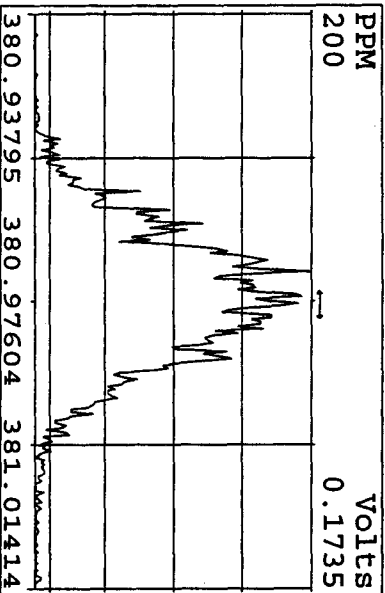
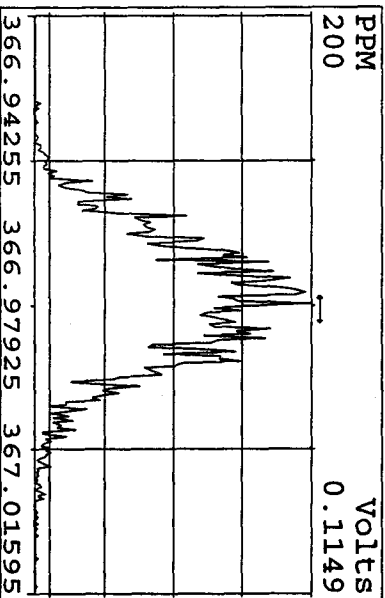
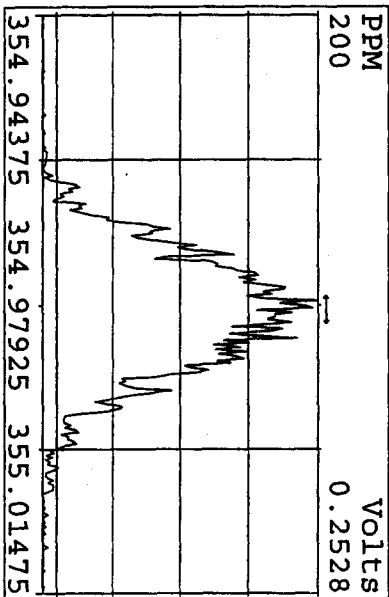
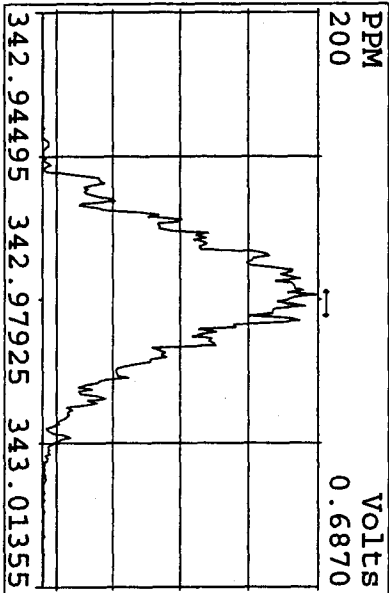
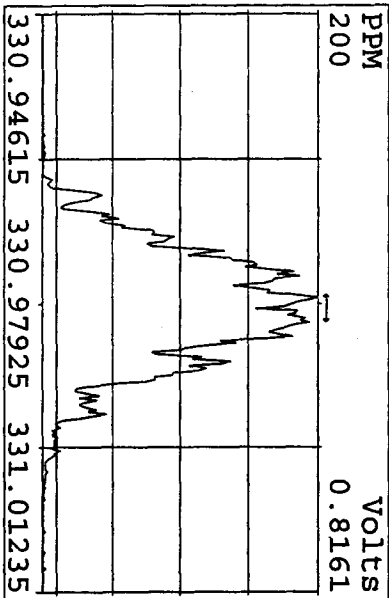
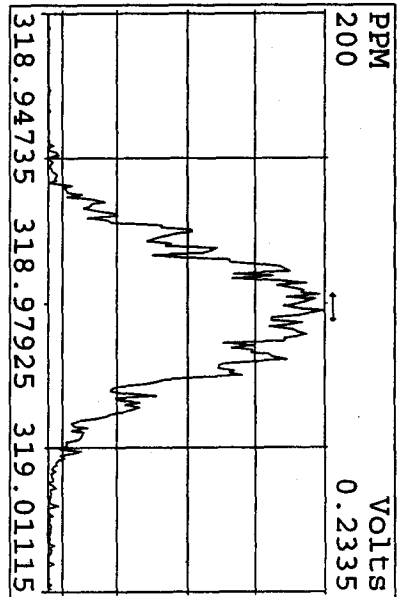
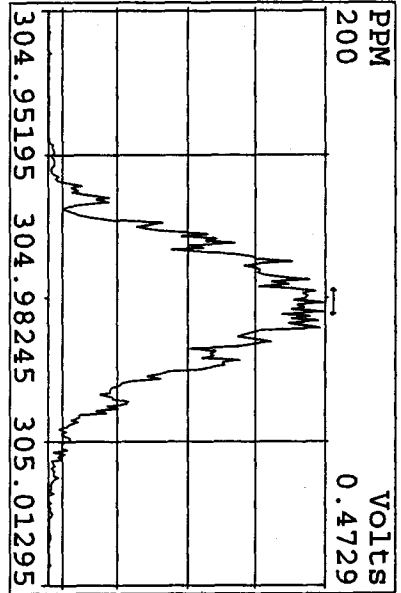
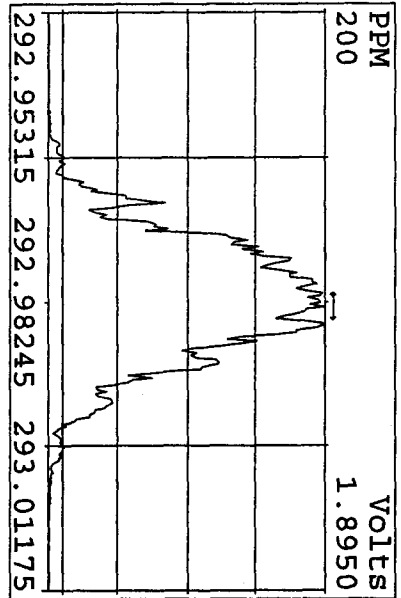
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	137457300	0.80 y	14:23	-	100.00	-	n
13C-2,3,7,8-TCDF	217759400	0.82 y	15:29	1.58	100.00	-19.8	n
2,3,7,8-TCDF	24710500	0.84 y	15:30	1.13	10.00	-3.8	n
13C-2,3,7,8-TCDD	124898700	0.80 y	14:09	0.91	100.00	-6.4	n
2,3,7,8-TCDD	17455170	0.78 y	14:10	1.40	10.00	-7.2	n
37C1-2,3,7,8-TCDD	34209200	1.00 y	14:10	2.49	10.00	-8.0	n

Run text: ST1223D File text: ST1223D :CS3 09DXN384
Run #12 Filename 23DE09A5D2 S: 10 I: 1
Acquired: 24-DEC-09 04:34:30 Processed: 24-DEC-09 05:52:28
Run: 23DE09A5D2 Analyte: DB225 Cal: DB2251021095D2 Results: 23DE09A5D2DB225

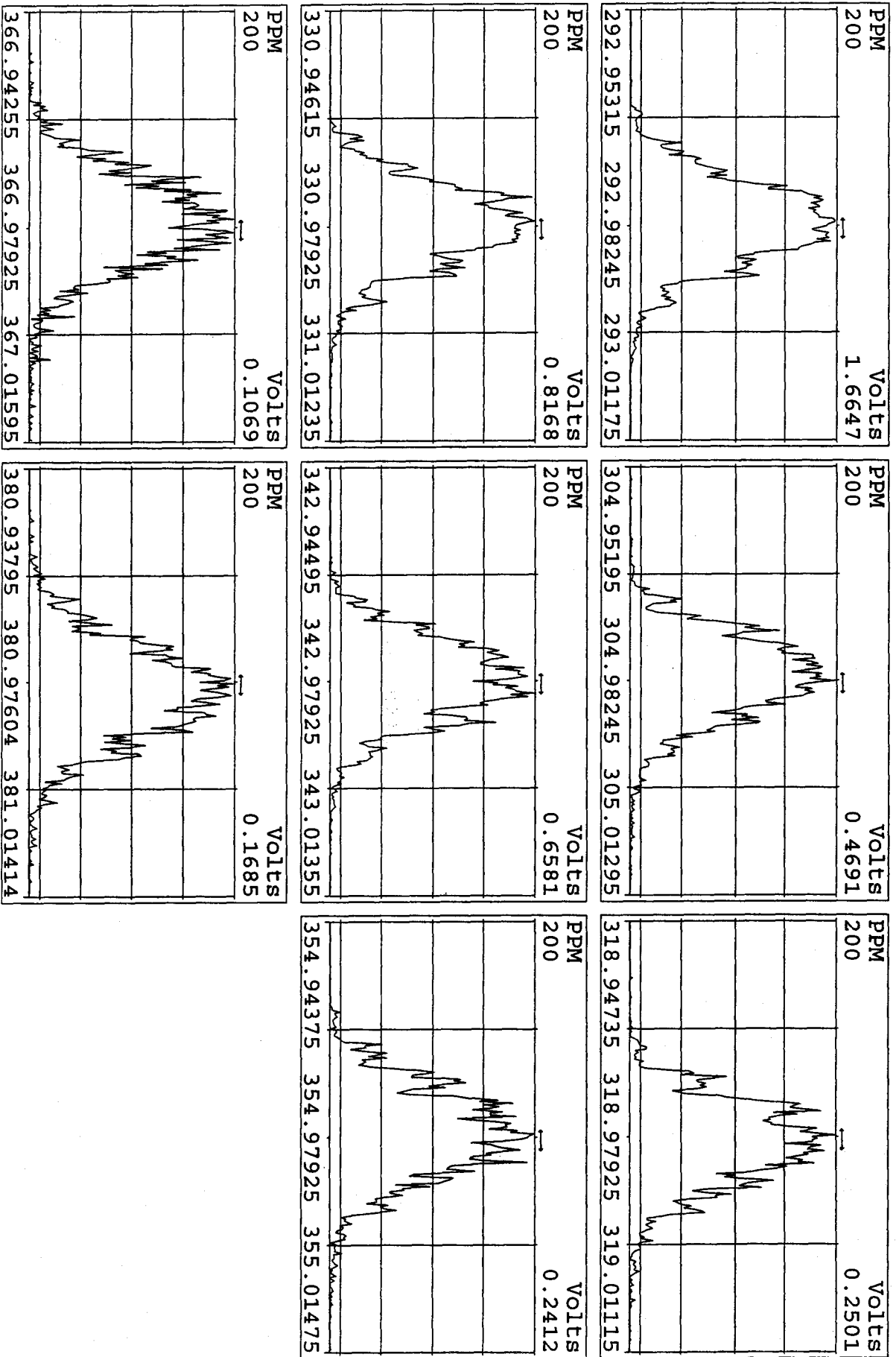
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	112422300	0.82 y	14:24	-	100.00	-	n
13C-2,3,7,8-TCDF	179603100	0.80 y	15:31	1.60	100.00	-19.1	n
2,3,7,8-TCDF	20783560	0.85 y	15:32	1.16	10.00	-1.9	n
13C-2,3,7,8-TCDD	102262600	0.81 y	14:11	0.91	100.00	-6.3	n
2,3,7,8-TCDD	14187290	0.78 y	14:12	1.39	10.00	-7.9	n
37C1-2,3,7,8-TCDD	29090800	1.00 y	14:12	2.59	10.00	-4.3	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
23DE09A5D2	1	ST1223C	CS3 09DXN384				1.000	
23DE09A5D2	2	CP1223A	DB-225 CPSM 3732-01				1.000	
23DE09A5D2	3	SB1223B	Solvent Blank C-14				1.000	
23DE09A5D2	4	LQ2LD-2-AC	G9L120491-7RX ✓	20	8290/SOLID	70	10.000	g
23DE09A5D2	5	LQ2LE-2-AC	G9L120491-8RX ✓	20	8290/SOLID		10.130	g
23DE09A5D2	6	LQ2LE-2-AD	G9L120491-8RX ✓	20	8290/SOLID		10.260	g
23DE09A5D2	7	LQ2LE-2-AE	G9L120491-8RX ✓	20	8290/SOLID		10.120	g
23DE09A5D2	8	LQ2LC-2-AC	G9L120491-6RX ✓	20	8290/SOLID		10.180	g
23DE09A5D2	9	SB1223C	Solvent Blank C-14				1.000	
23DE09A5D2	10	ST1223D	CS3 09DXN384				1.000	
23DE09A5D2	11						1.000	
23DE09A5D2	12						1.000	
23DE09A5D2	13						1.000	
23DE09A5D2	14						1.000	
23DE09A5D2	15						1.000	
23DE09A5D2	16						1.000	
23DE09A5D2	17		AM 12-23-09		LOGFILE ✓ ¹⁶		1.000	
23DE09A5D2	18				12-24-09 KSS		1.000	

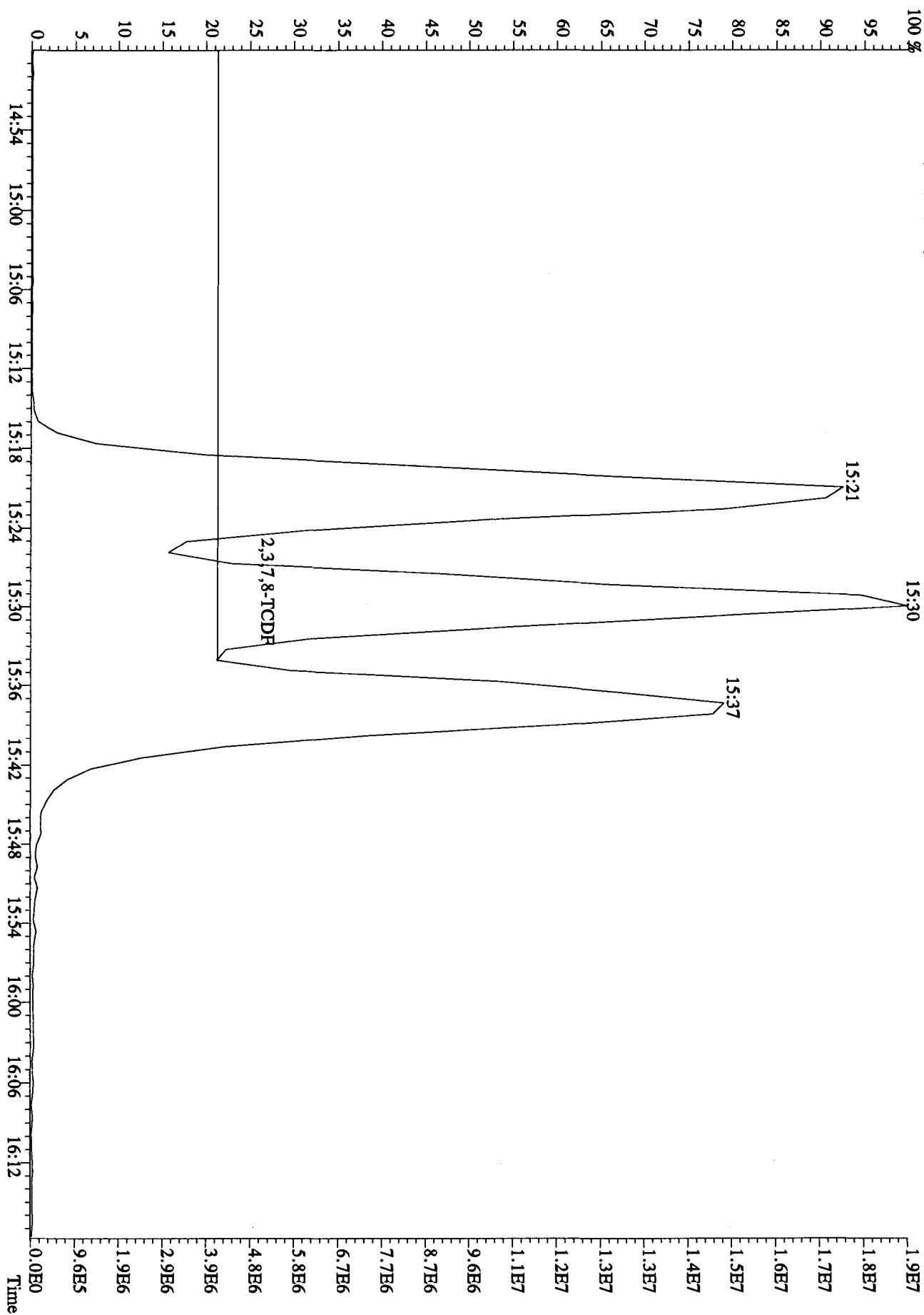
Peak Locate Examination: 23-DEC-2009:22:58 File: 23DE09A5D2
 Experiment: DB225 Function: 1 Reference: PFK



Peak Locate Examination: 24-DEC-2009: 05:57 File: 23DE09A5D2ENDRES
 Experiment: DB225 Function: 1 Reference: PRK



File: 23DBE09A5D2 #1-1241 Acq: 23-DEC-2009 23:38:09 GC EI + Voltage SIR 70SE
 Sample#2 Text: CP1223A :DB-225 CP5M 3732-01 Exp: DB225
 303.9016 S: 2 BSUB(128,15,-3.0)

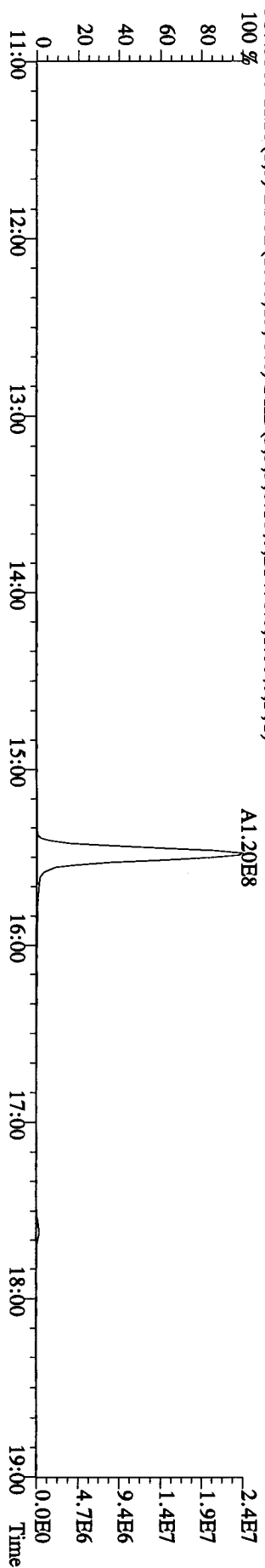
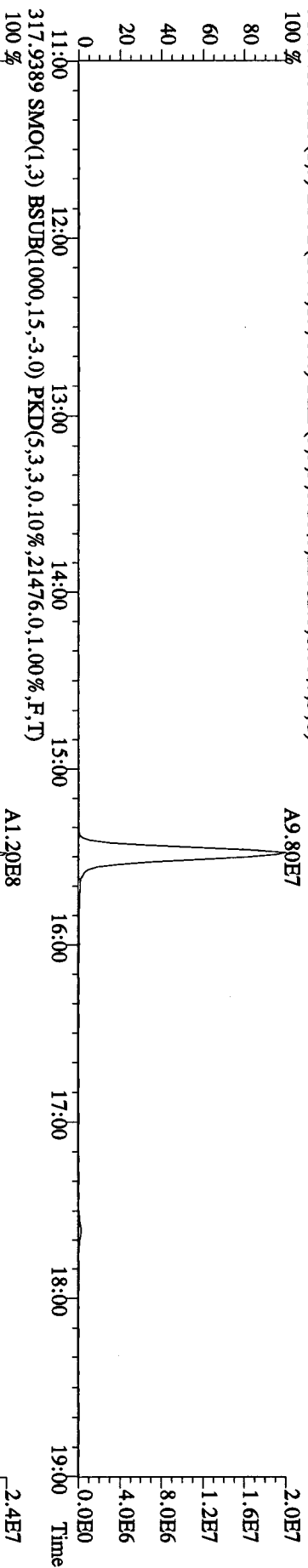
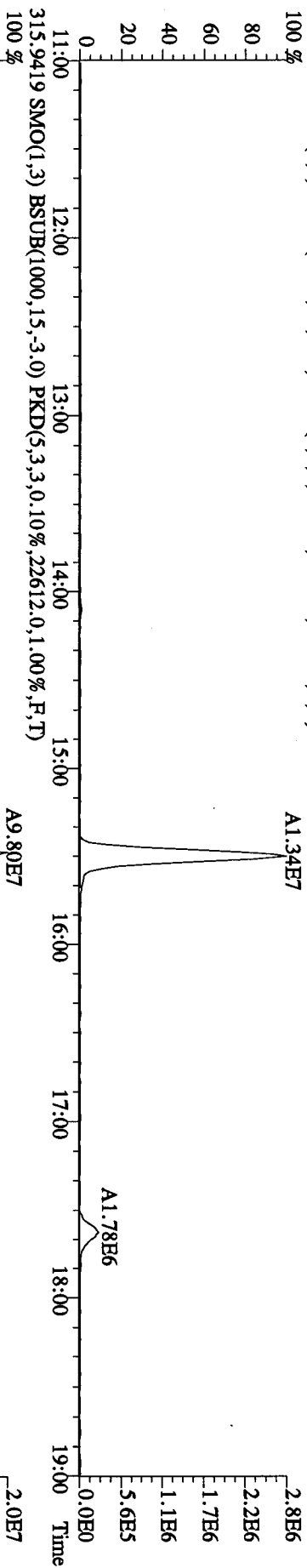
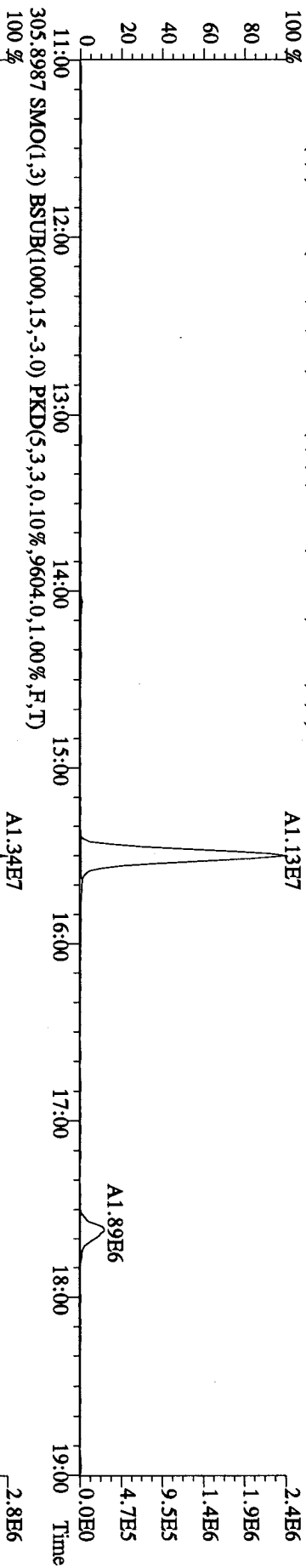


Run: 23DE09A5D2 Analyte: DB225 Cal: DB2251021095D2

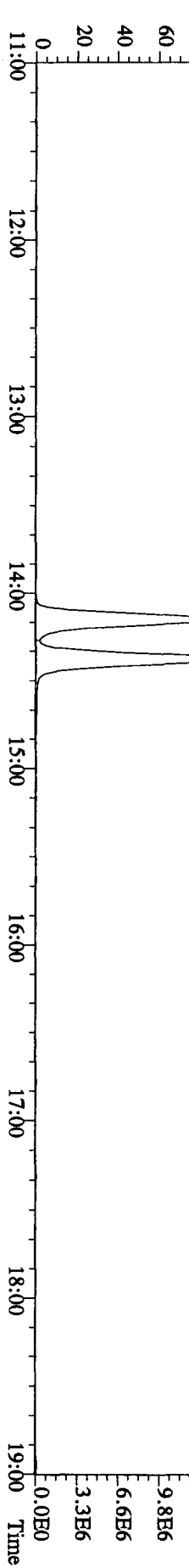
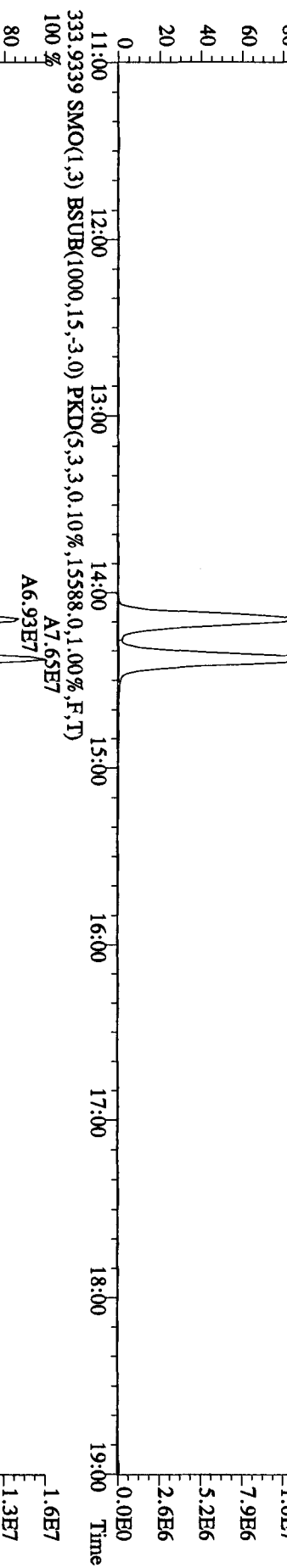
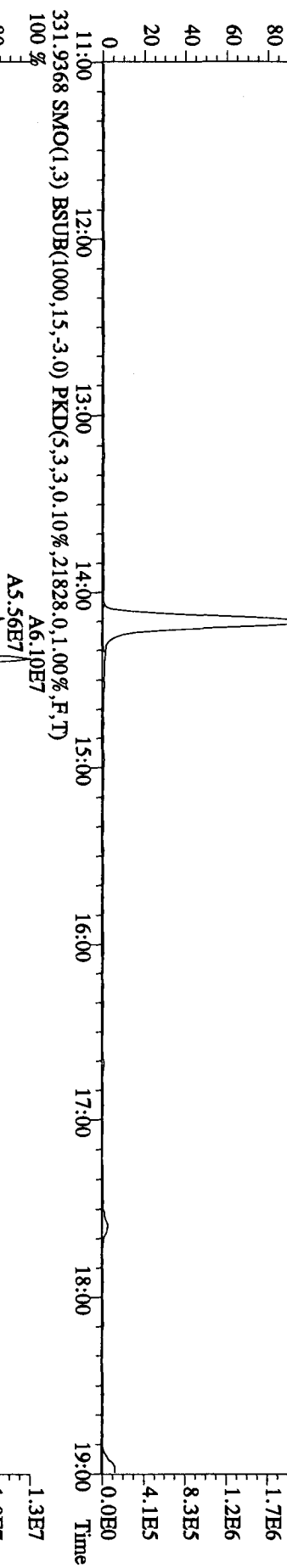
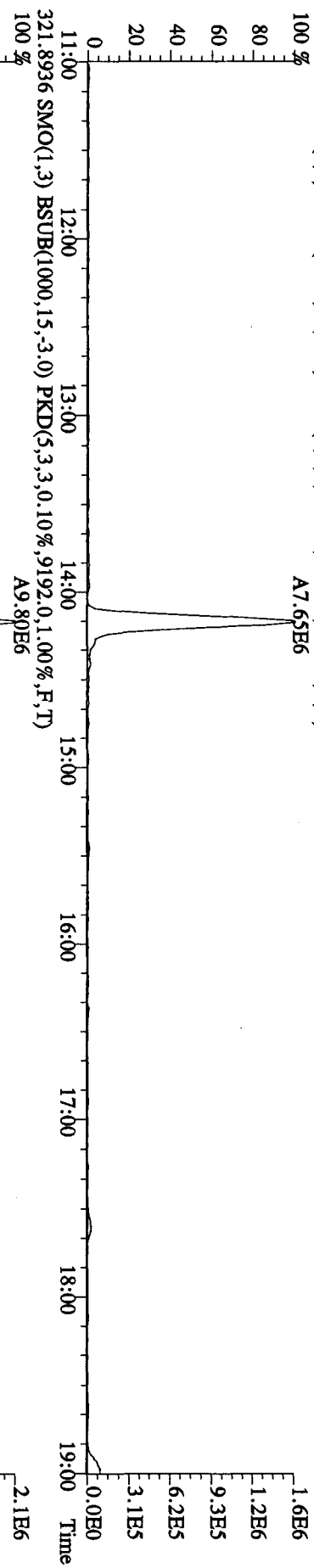
ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	21OC095D2							
				S3 RRF1	S4 RRF2	S5 RRF3	S6 RRF4	S7 RRF5			
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00			
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11			
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97			
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46			
37Cl-2,3,7,8-TCDD	2.705	0.282	10.4 %	2.28	2.70	2.80	3.06	2.68			

File: 23DB09A5D2 #1-1242 Acq: 23-DEC-2009 23:01:07 GC EI + Voltage SIR 70SE
 Sample#1 Text: ST1223C :CS3 09DXN384 Exp: DB225
 303.9016 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7232.0,1.00%,F,T)
 100%



File: 23DE09A5D2 #1-1242 Acq: 23-DEC-2009 23:01:07 GC EI + Voltage SIR 70SE
 Sample#1 Text: ST1223C :CS3 09DXN384 Exp: DB225
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6292,0,1,00%,F,T) A7.65E6
 100%

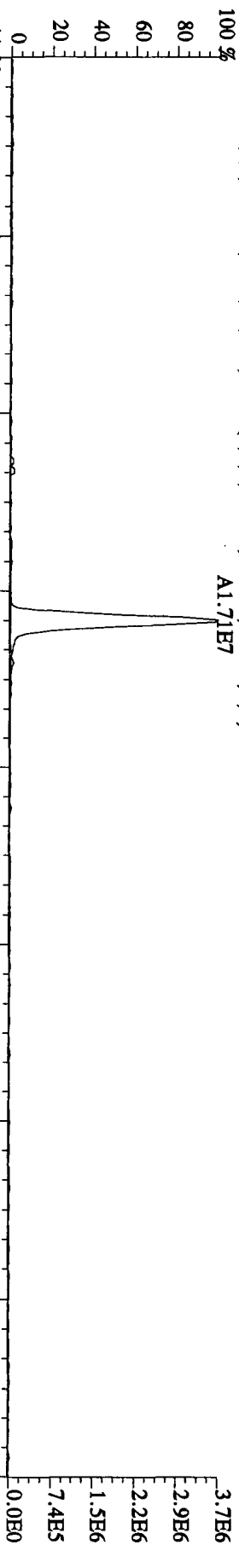


File:23DE09A5D2 #1-1242 Acq:23-DEC-2009 23:01:07 GC EI+ Voltage SIR 70SE

Sample#1 Text:ST1223C :CS3 09DXN384 Exp:DB225

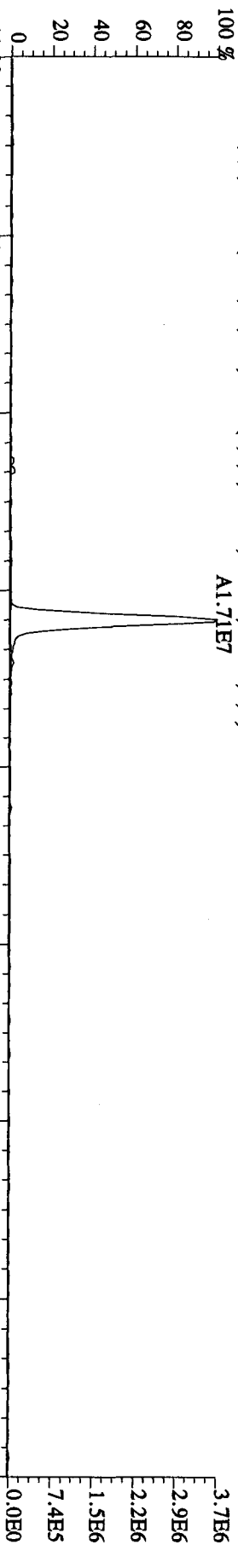
327.8840 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7708,0,1,00%,F,T)

A1.71E7



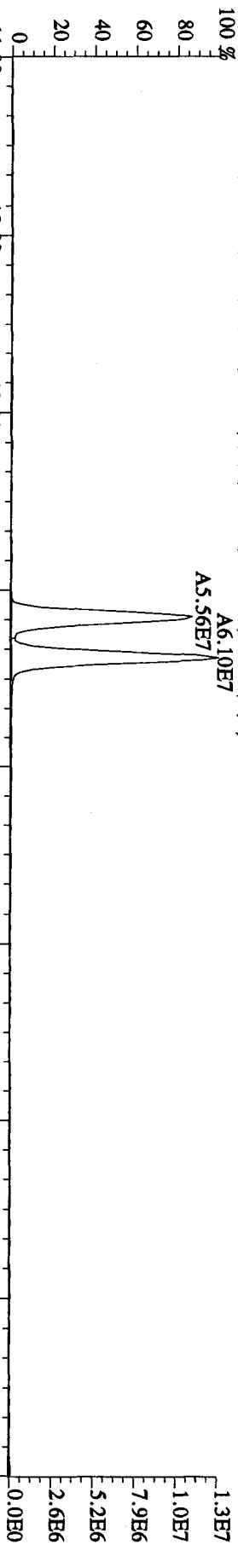
327.8840 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7708,0,1,00%,F,T)

A1.71E7



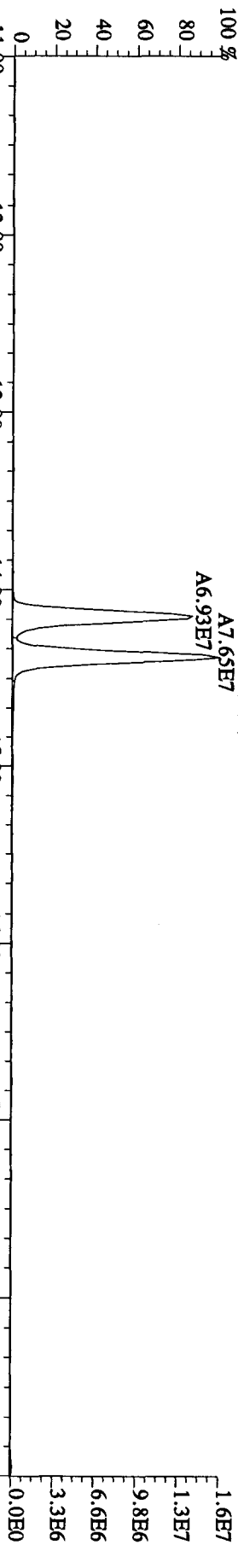
331.9368 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,21828,0,1,00%,F,T)

A5.56E7

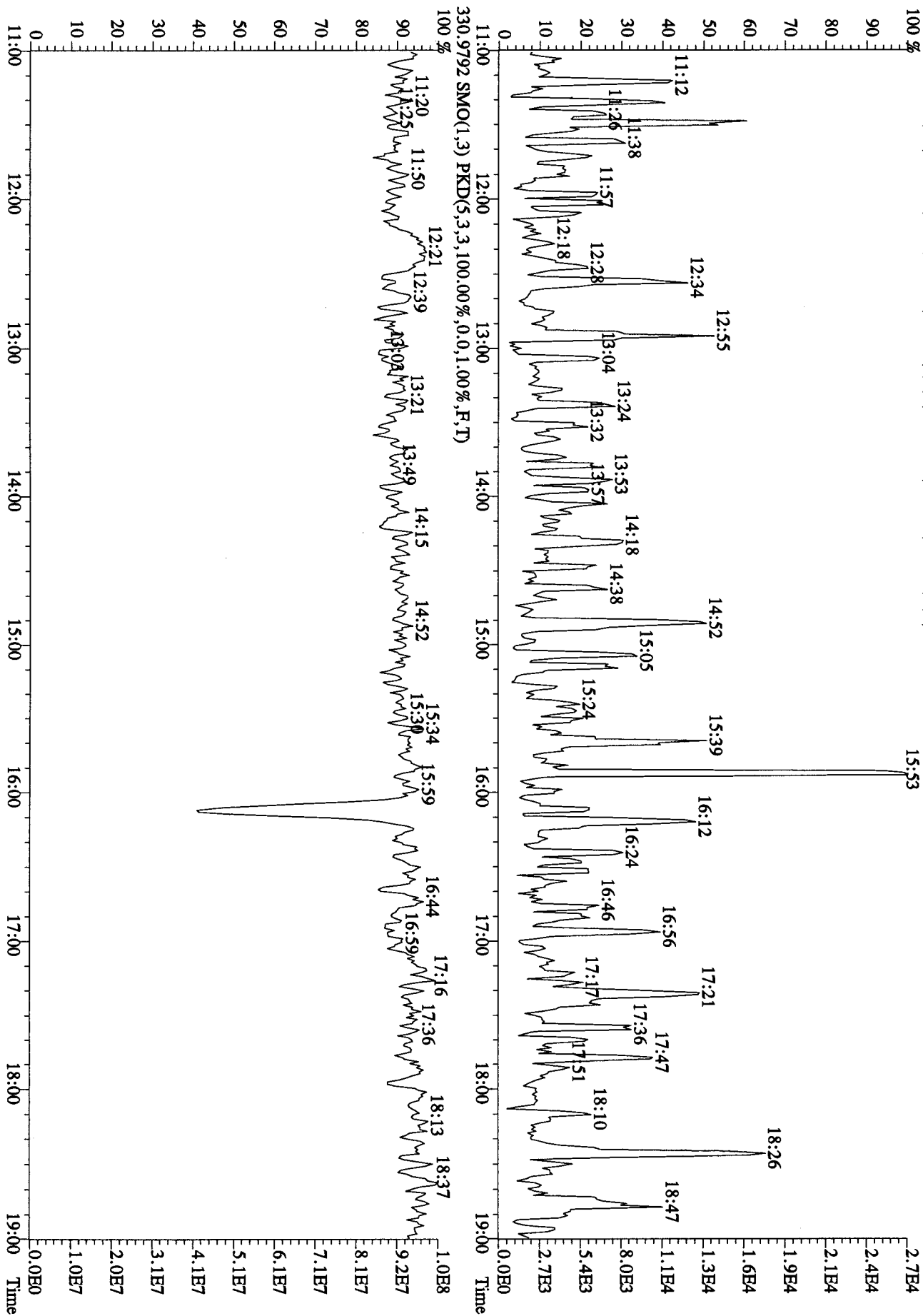


333.9339 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15588,0,1,00%,F,T)

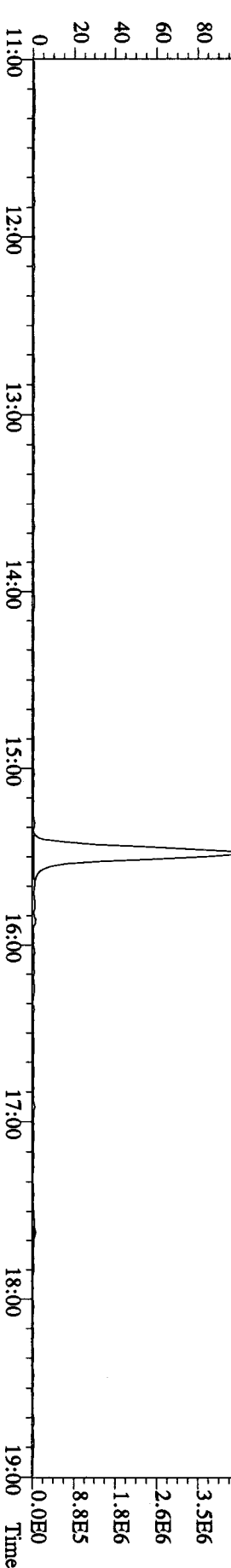
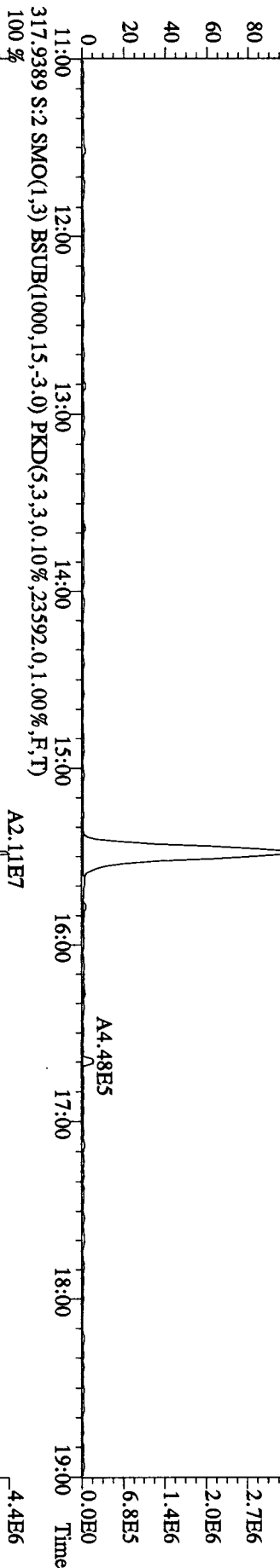
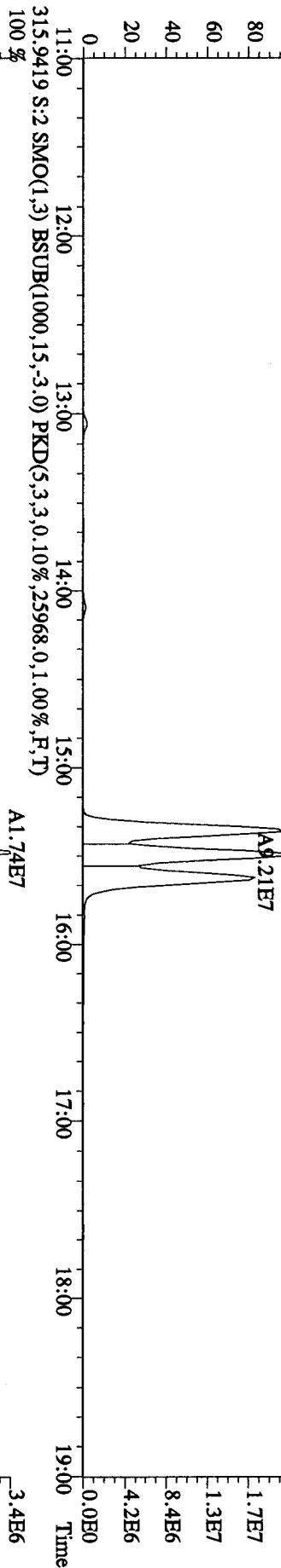
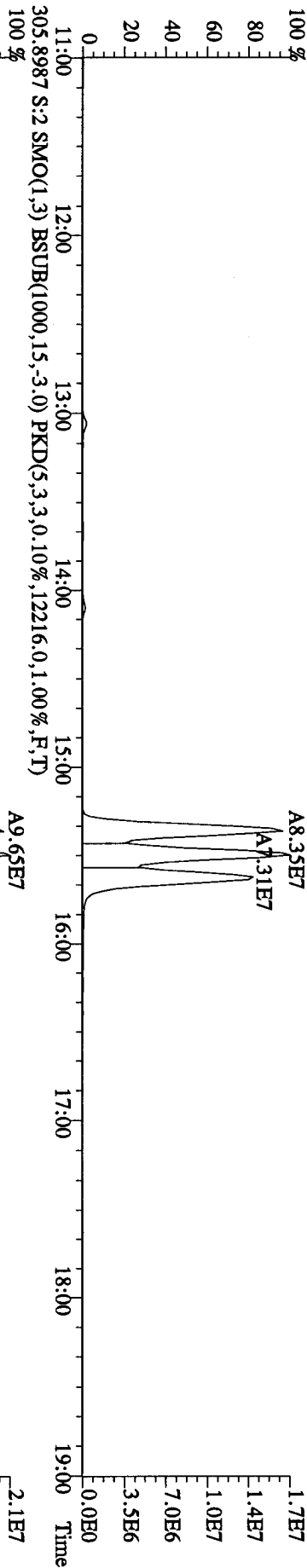
A7.65E7



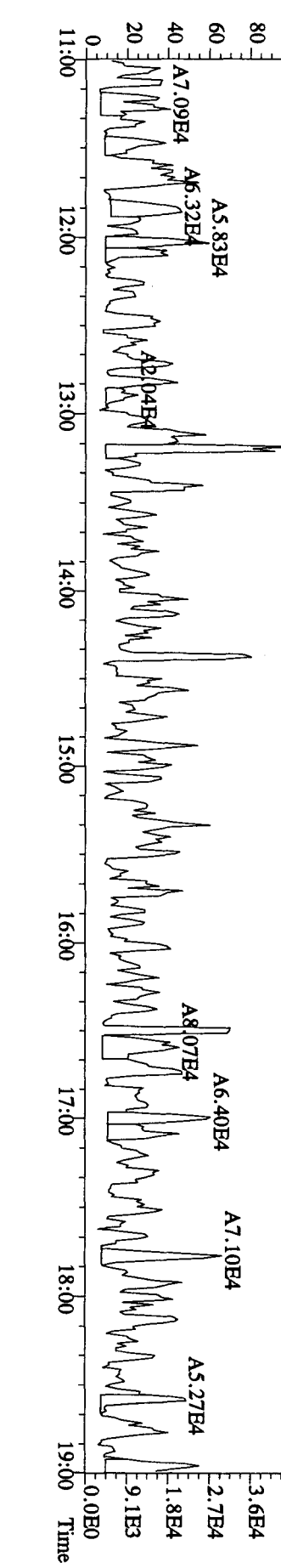
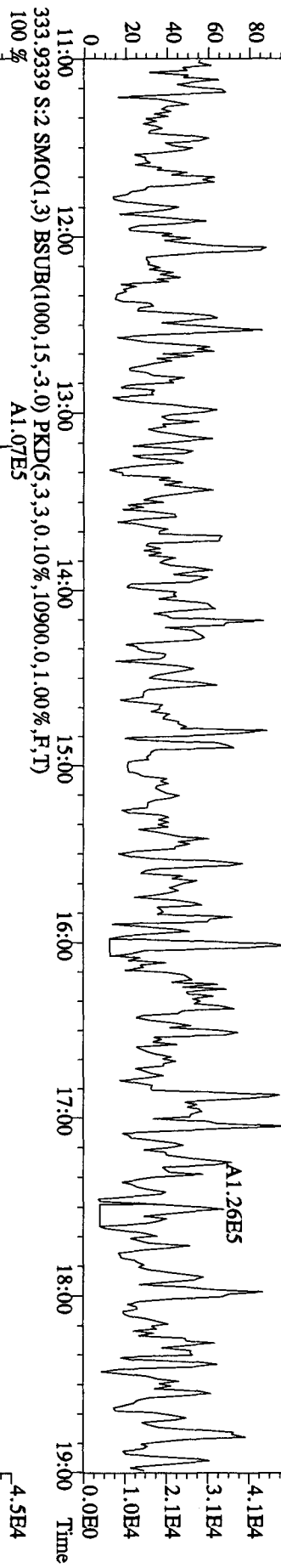
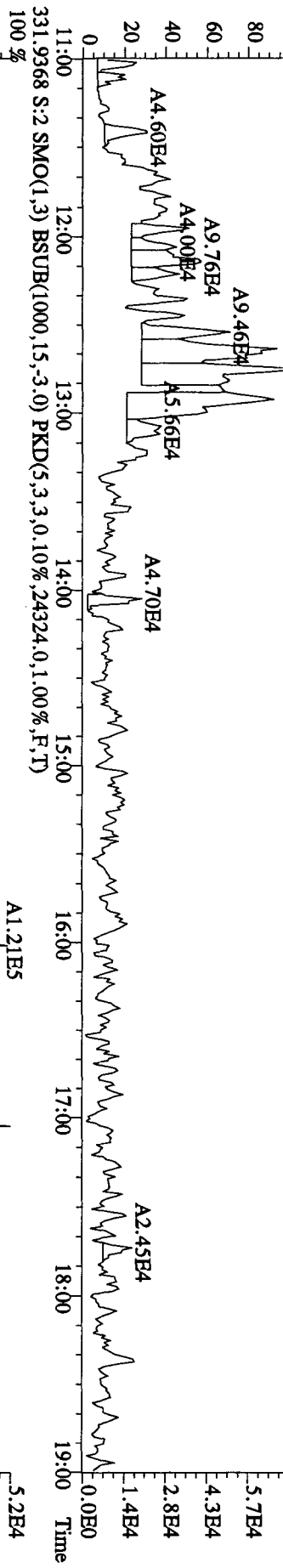
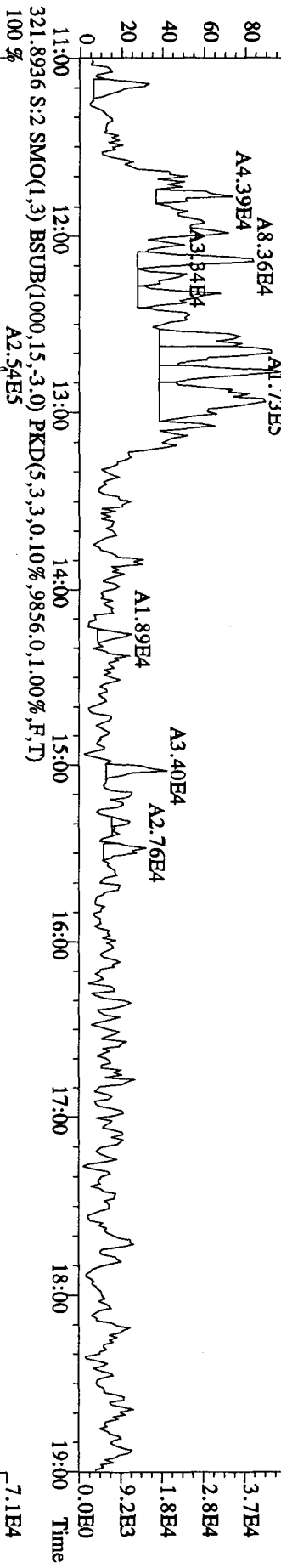
File: 23DE09ASD2 #1-1242 Acq: 23-DEC-2009 23:01:07 GC EI + Voltage SIR 70SE
 Sample#1 Text: ST1223C :CS3 09DXN384 Exp: DB225
 375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3356.0,1.00%,F,T)
 100%



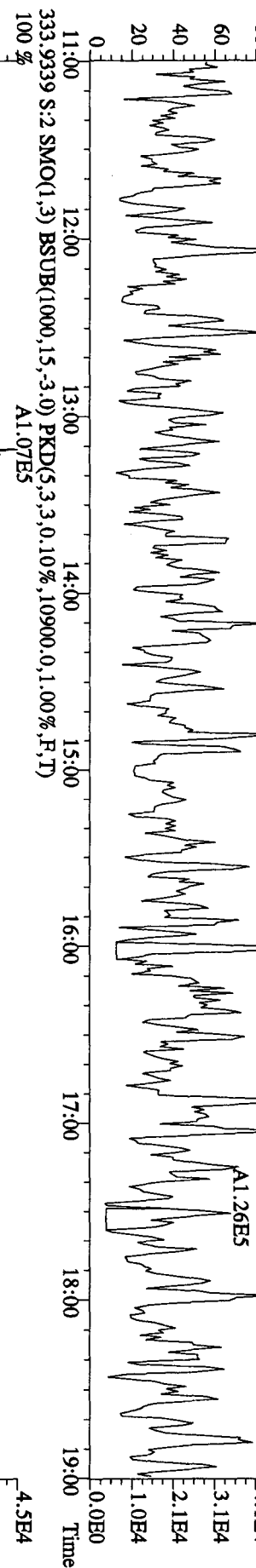
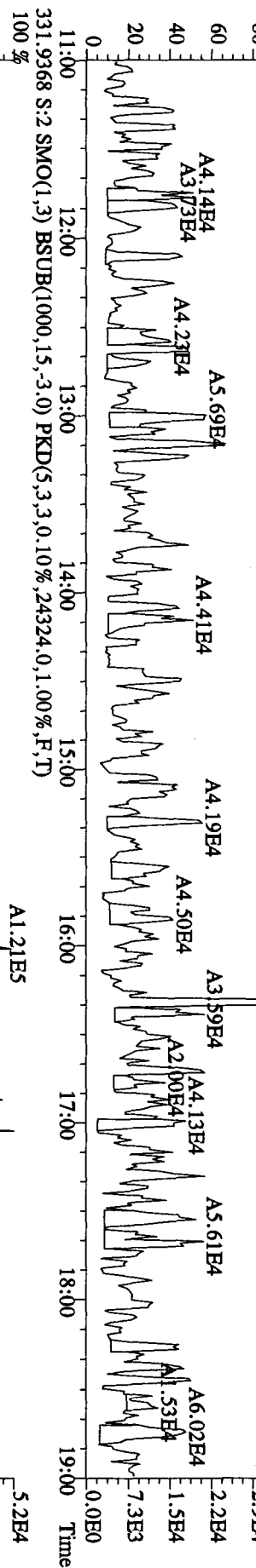
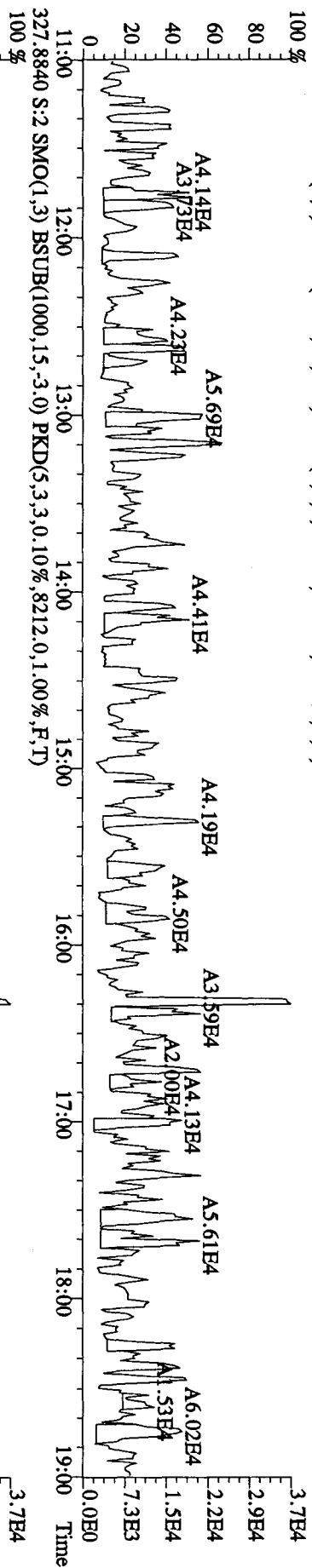
File:23DEB09A5D2 #1-1241 Acq:23-DEC-2009 23:38:09 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1223A :DB-225 CP5M 3732-01 Exp:DB225
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9672.0,1.00%,F,T)



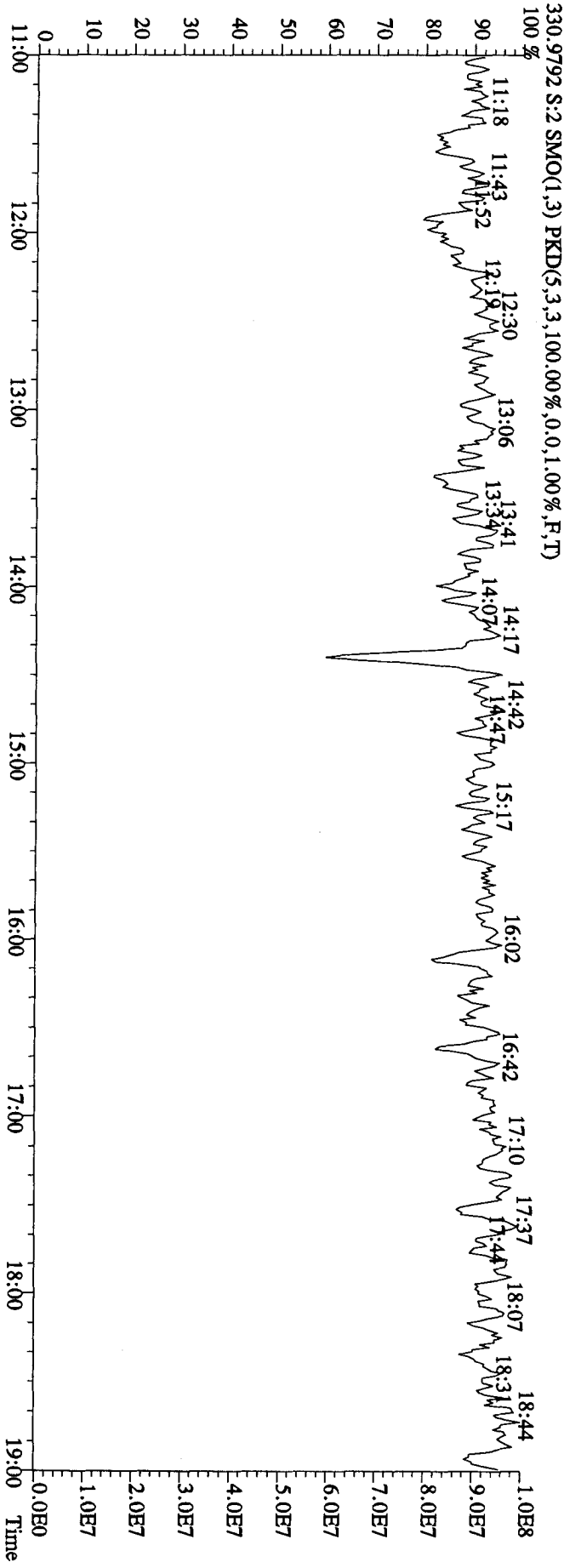
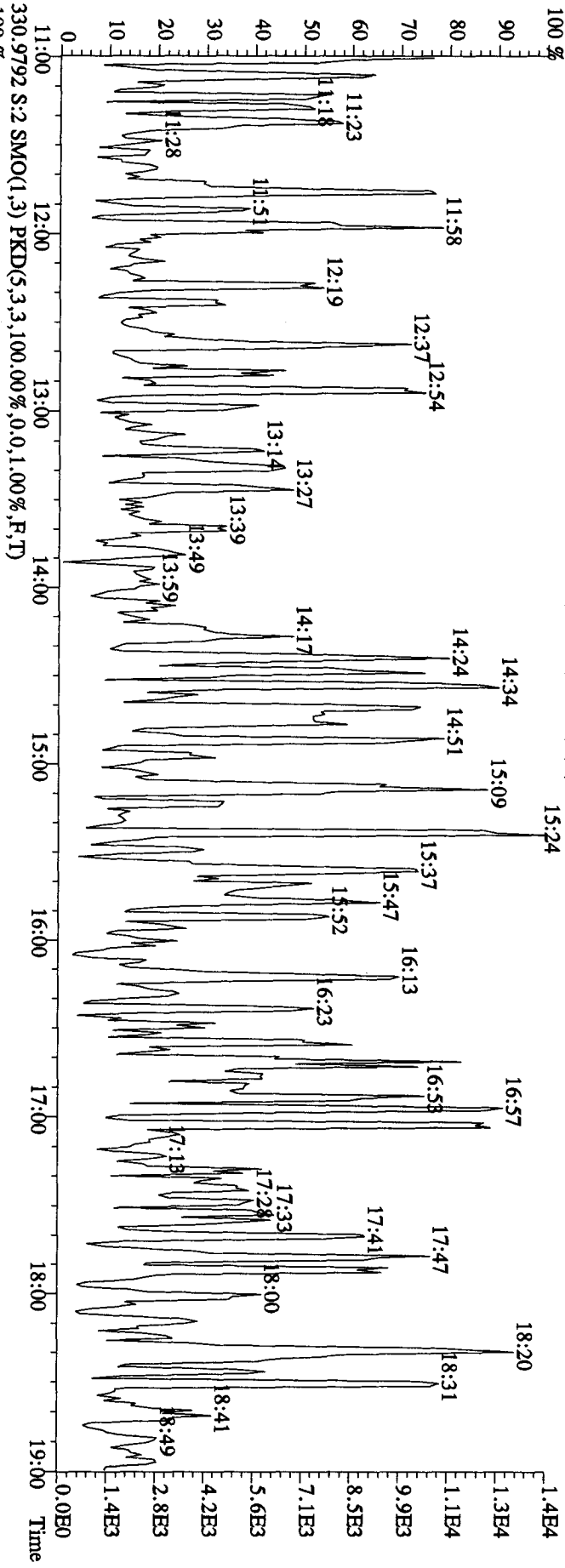
File:23DE09A5D2 #1-1241 Acq:23-DEC-2009 23:38:09 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1223A :DB-225 CP5M 3732-01 Exp:DB225
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7380,0,1.00%,F,T)
 100 %



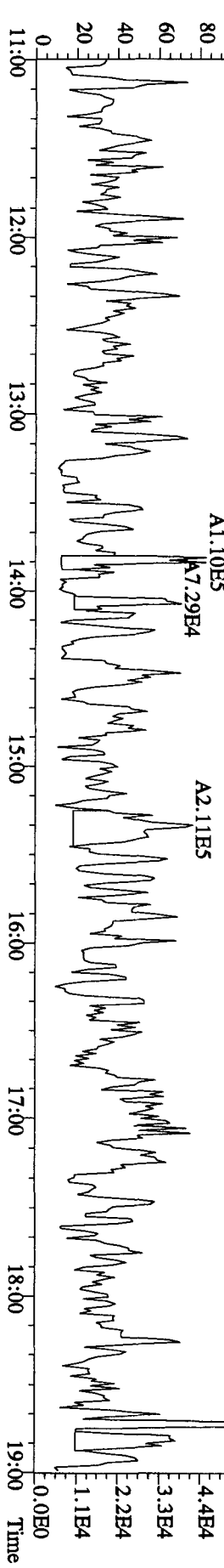
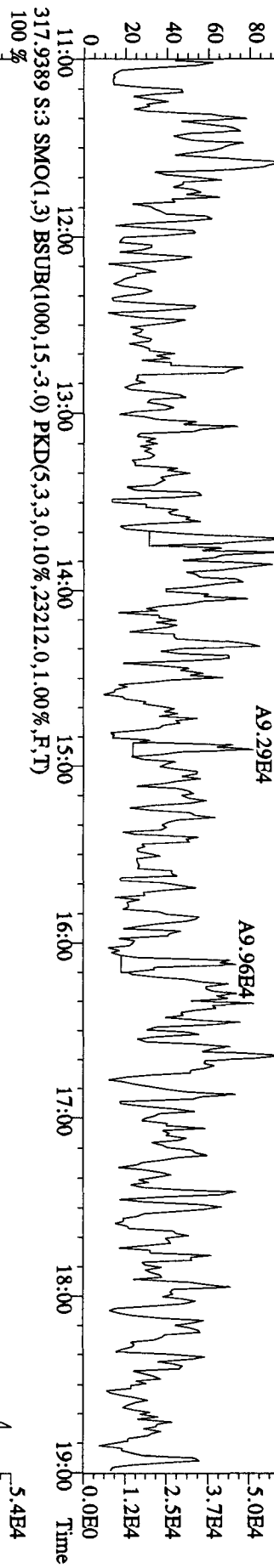
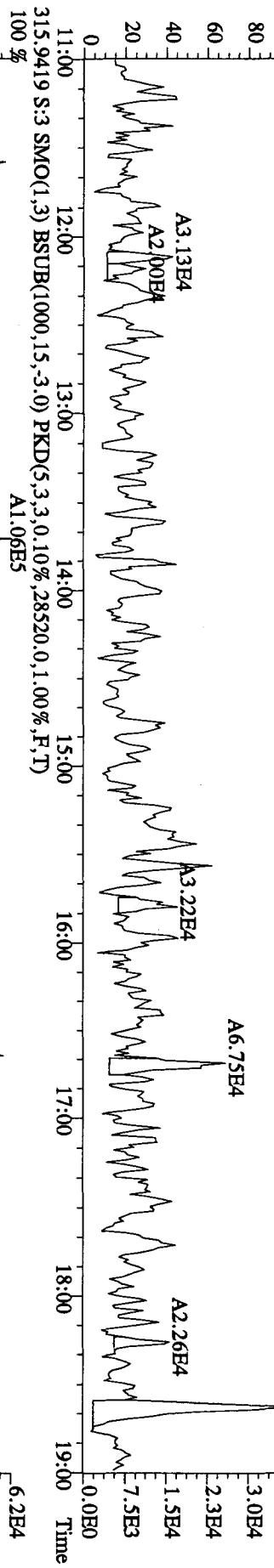
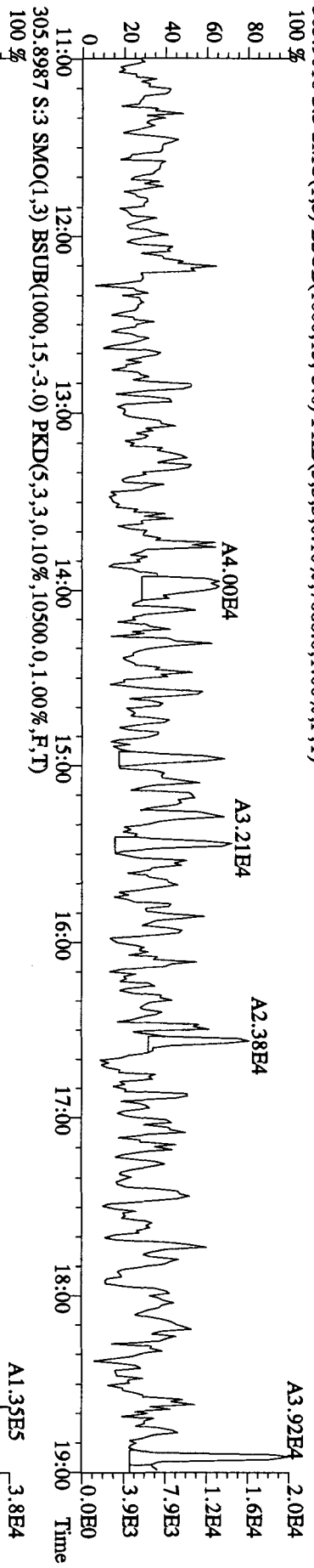
File:23DE09A5D2 #1-1241 Acq:23-DEC-2009 23:38:09 GC EI+ Voltage SIR 70SE
Sample#2 Text:CP1223A :DB-225 CPISM 3732-01 Exp:DB225
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8212.0,1.00%,F,T)
100 %



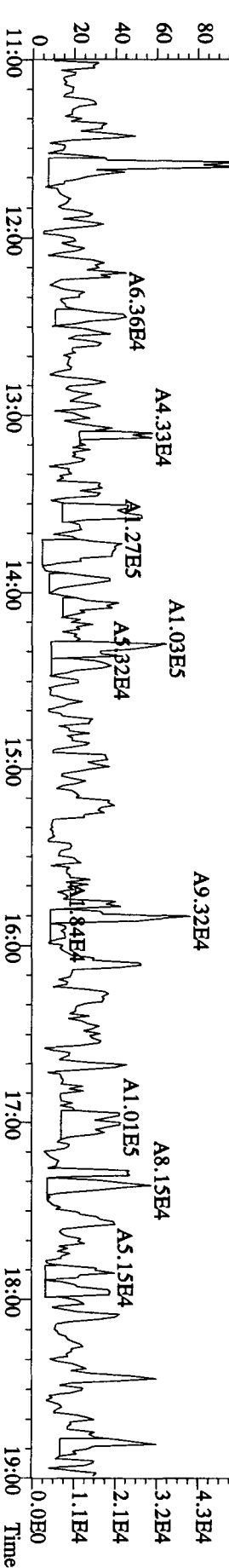
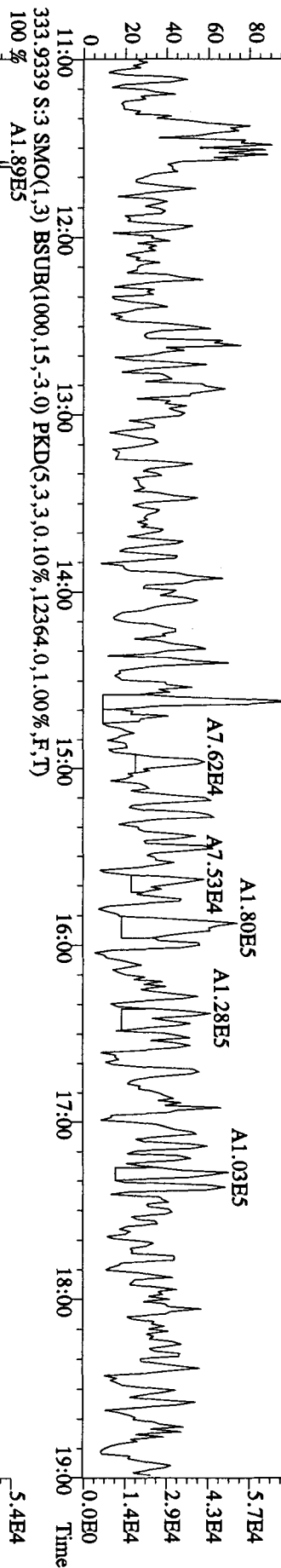
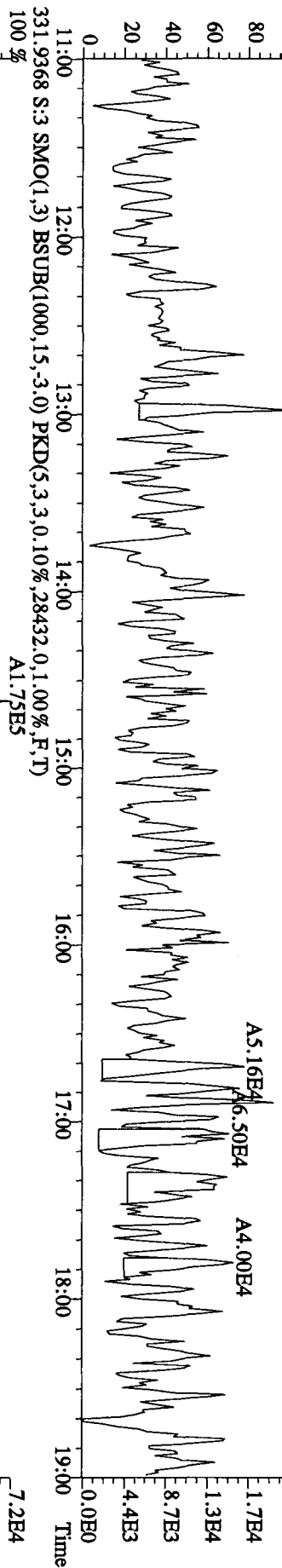
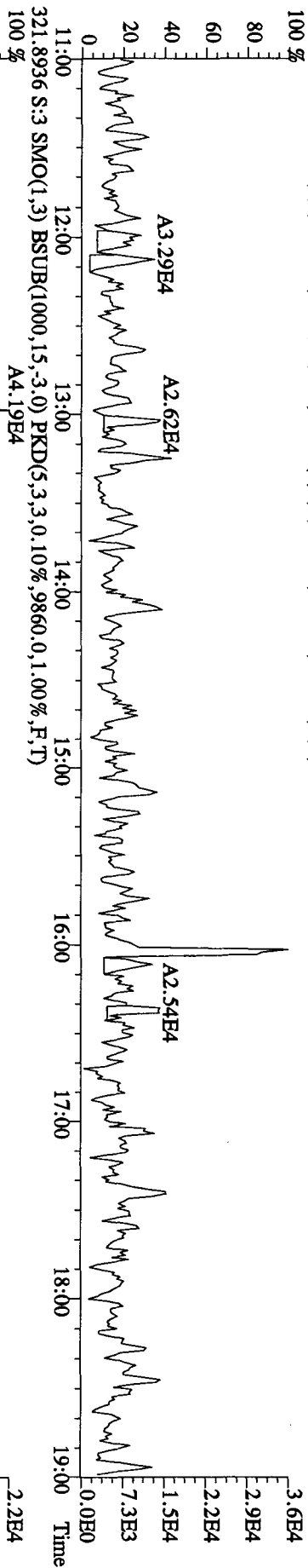
File: 23DDE09A5D2 #1-1241 Acq: 23-DEC-2009 23:38:09 GC EI+ Voltage SIR 70SE
 Sample#2 Text: CPI223A :DB-225 CPISM 3732-01 Exp: DB225
 375.8364 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2808.0,1.00%,F,T)

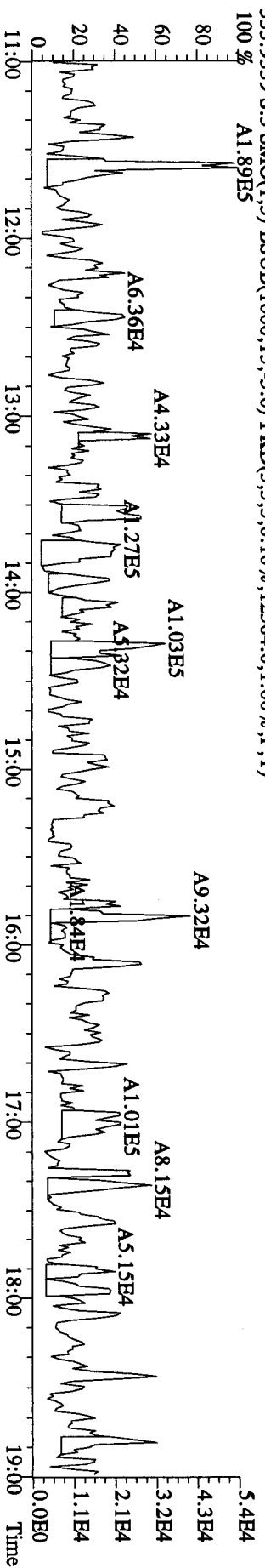
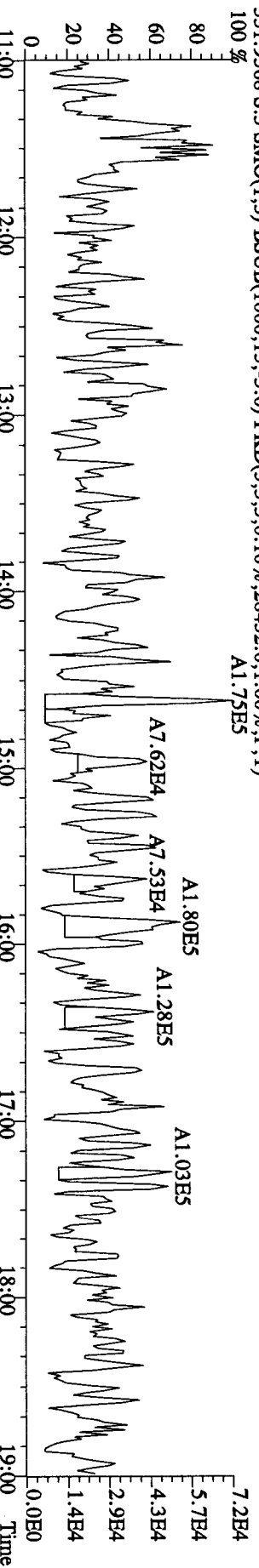
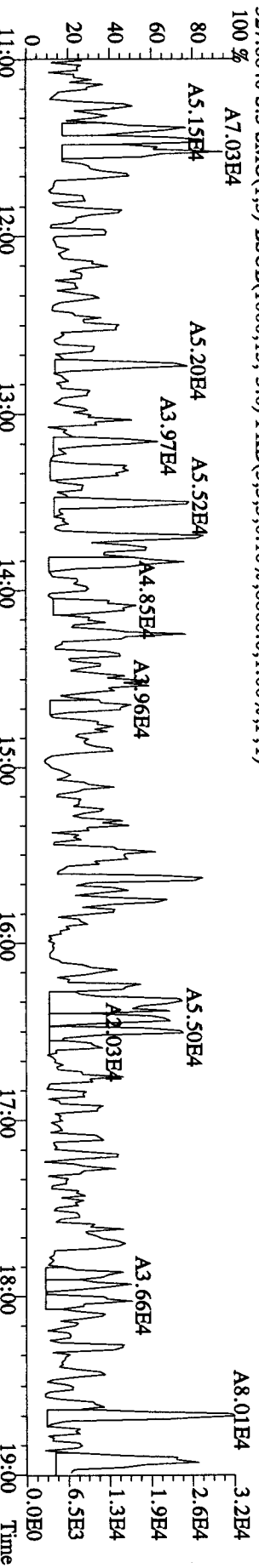
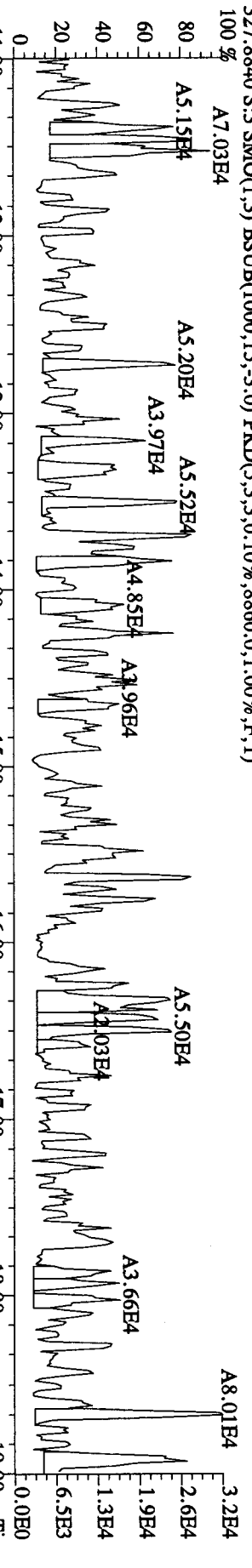


File:23DBE09A5D2 #1-1242 Acq:24-DEC-2009 00:15:08 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1223B :Solvent Blank C-14 Exp:DB225
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7668,0,1.00%,F,T)
 100 %

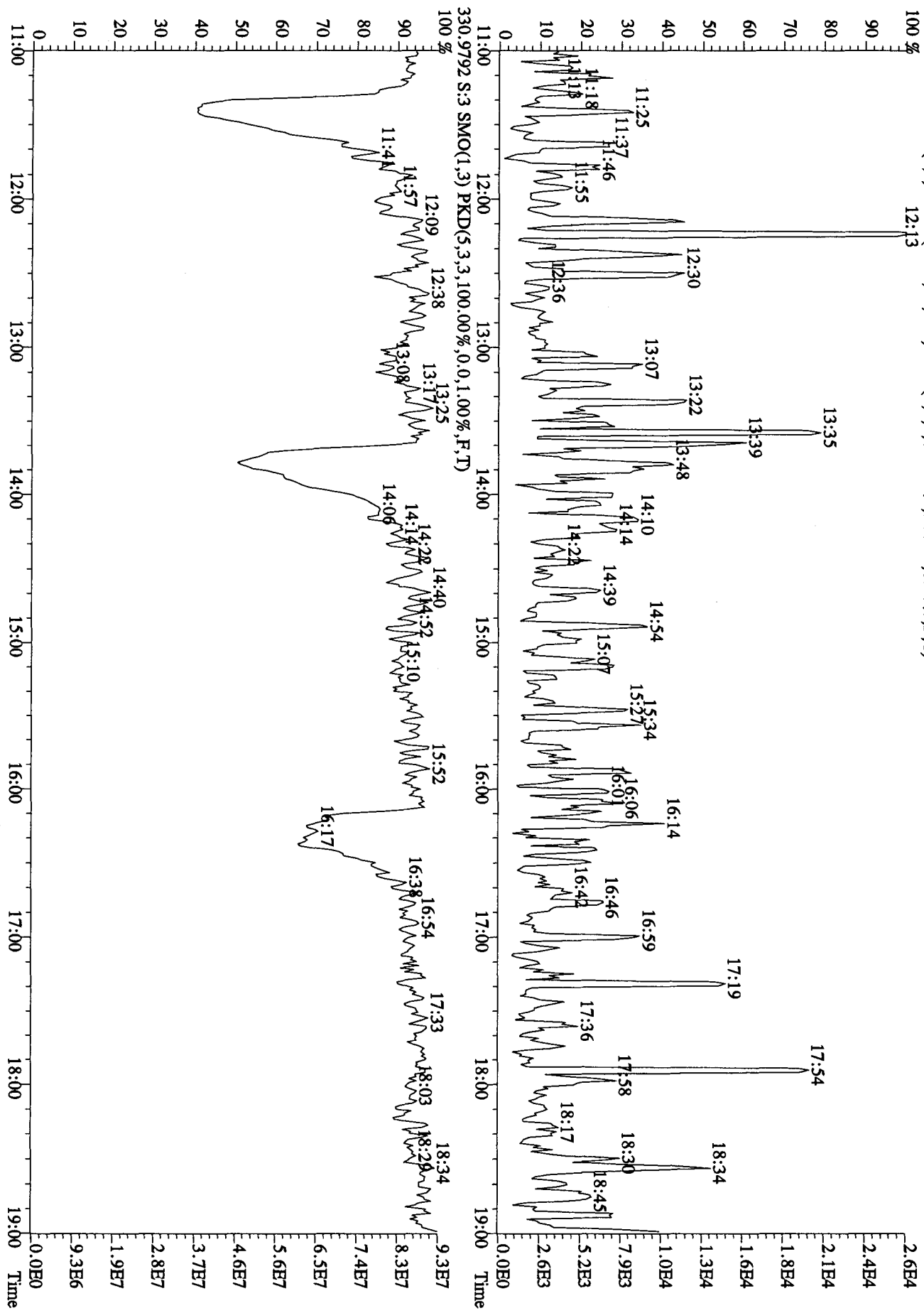


File:23DE09A5D2 #1-1242 Acq:24-DEC-2009 00:15:08 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1223B :Solvent Blank C-14 Exp:DB225
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7628,0,1.00%,F,T)

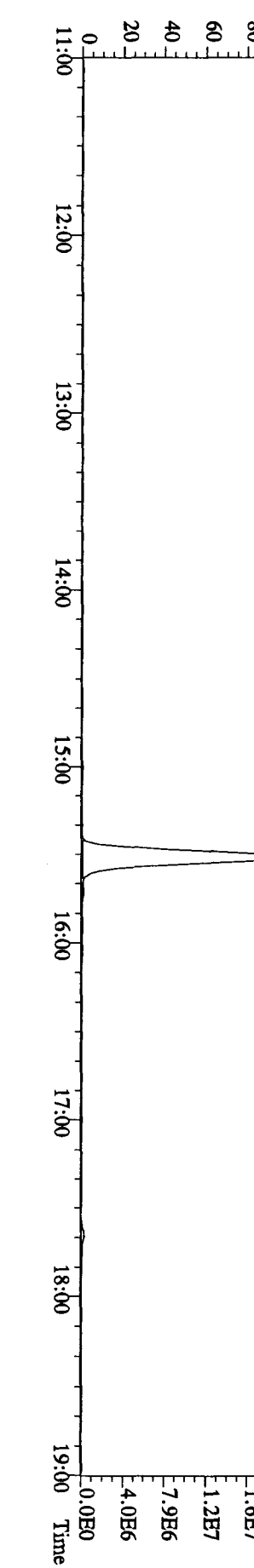
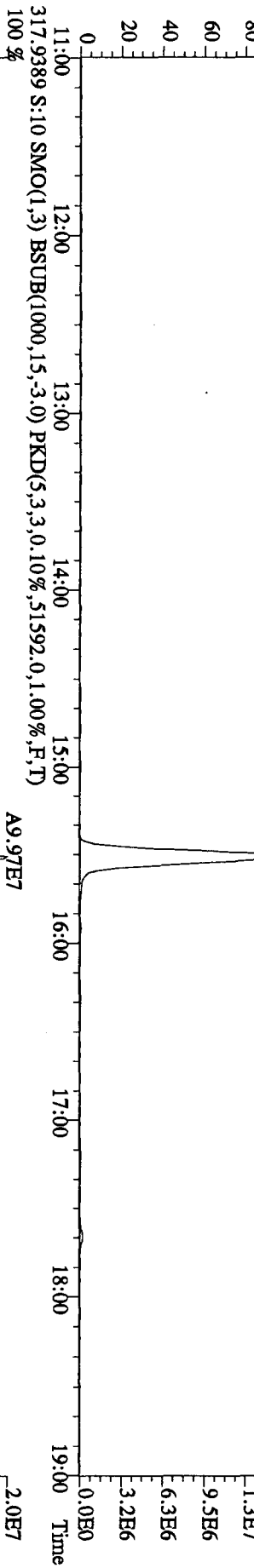
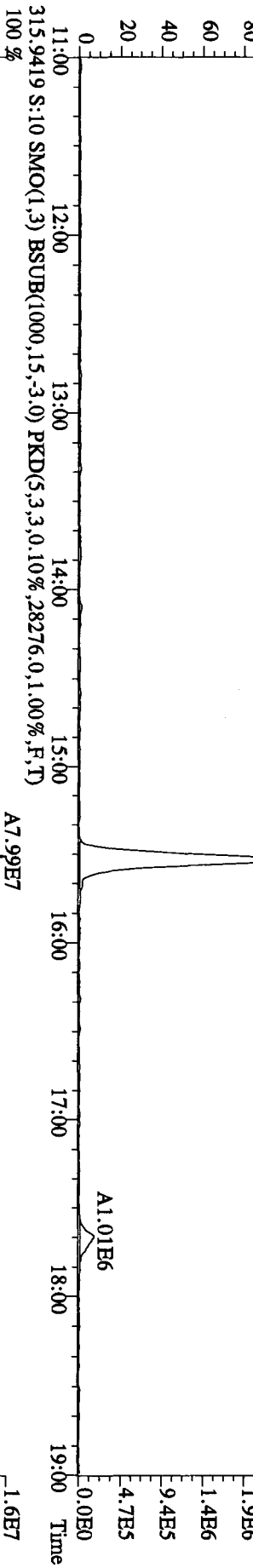
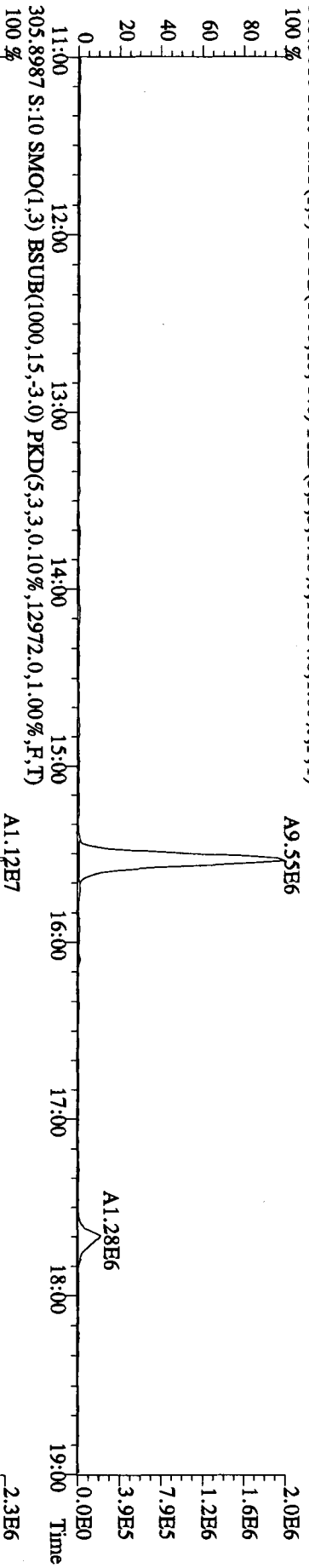




File: 23DE09A5D2 #1-1242 Acq: 24-DEC-2009 00:15:08 GC EI+ Voltage SIR 70SE
 Sample#3 Text: SB1223B : Solvent Blank C-14 Exp: DB225
 375 8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3444.0,1.00%,F,T)



File:23DE09ASD2 #1-1242 Acq:24-DEC-2009 04:34:30 GC EI+ Voltage SIR 70SE
 Sample#10 Text:ST1223D :CS3 09DXN384 Exp:DB225
 303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10304.0,1.00%,F,T)
 100 %



File:23DDE09A5D2 #1-1242 Acq:24-DEC-2009 04:34:30 GC EI+ Voltage SIR 70SE

Sample#10 Text:ST1223D :CS3 09DXN384 Exp:DB225

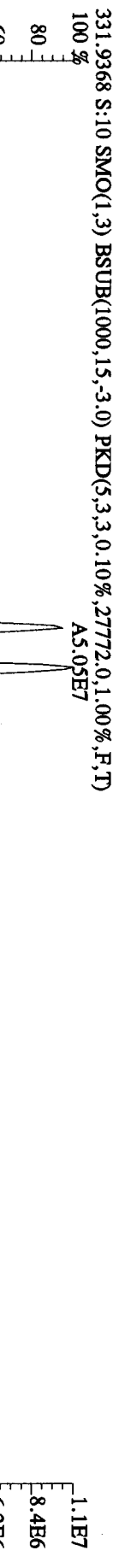
319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9240,0,1.00%,F,T)



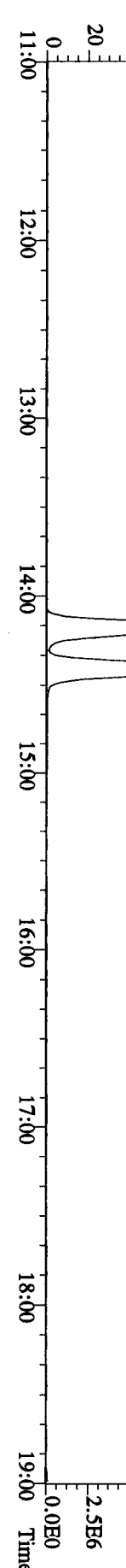
321.8936 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,10708,0,1.00%,F,T)



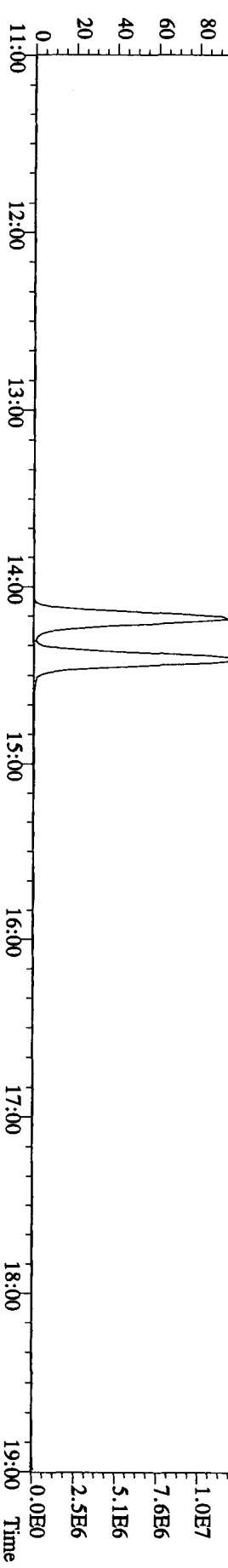
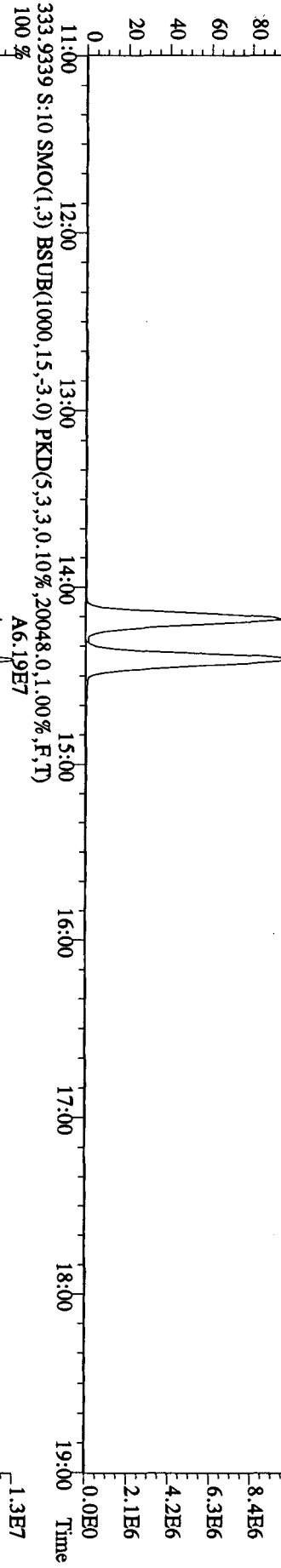
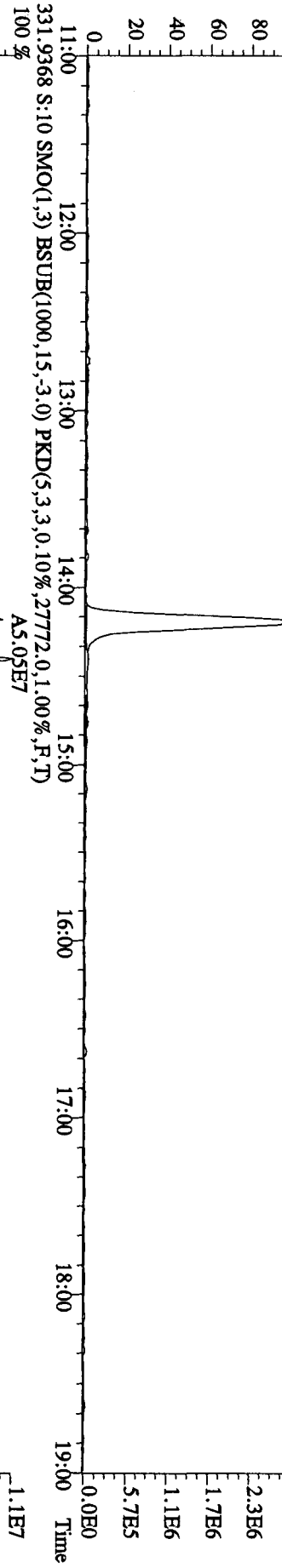
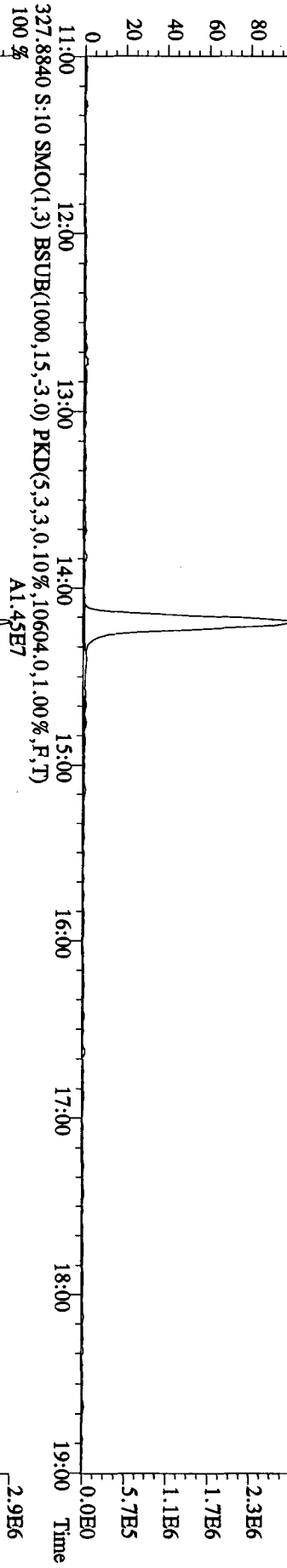
331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,27772,0,1.00%,F,T)



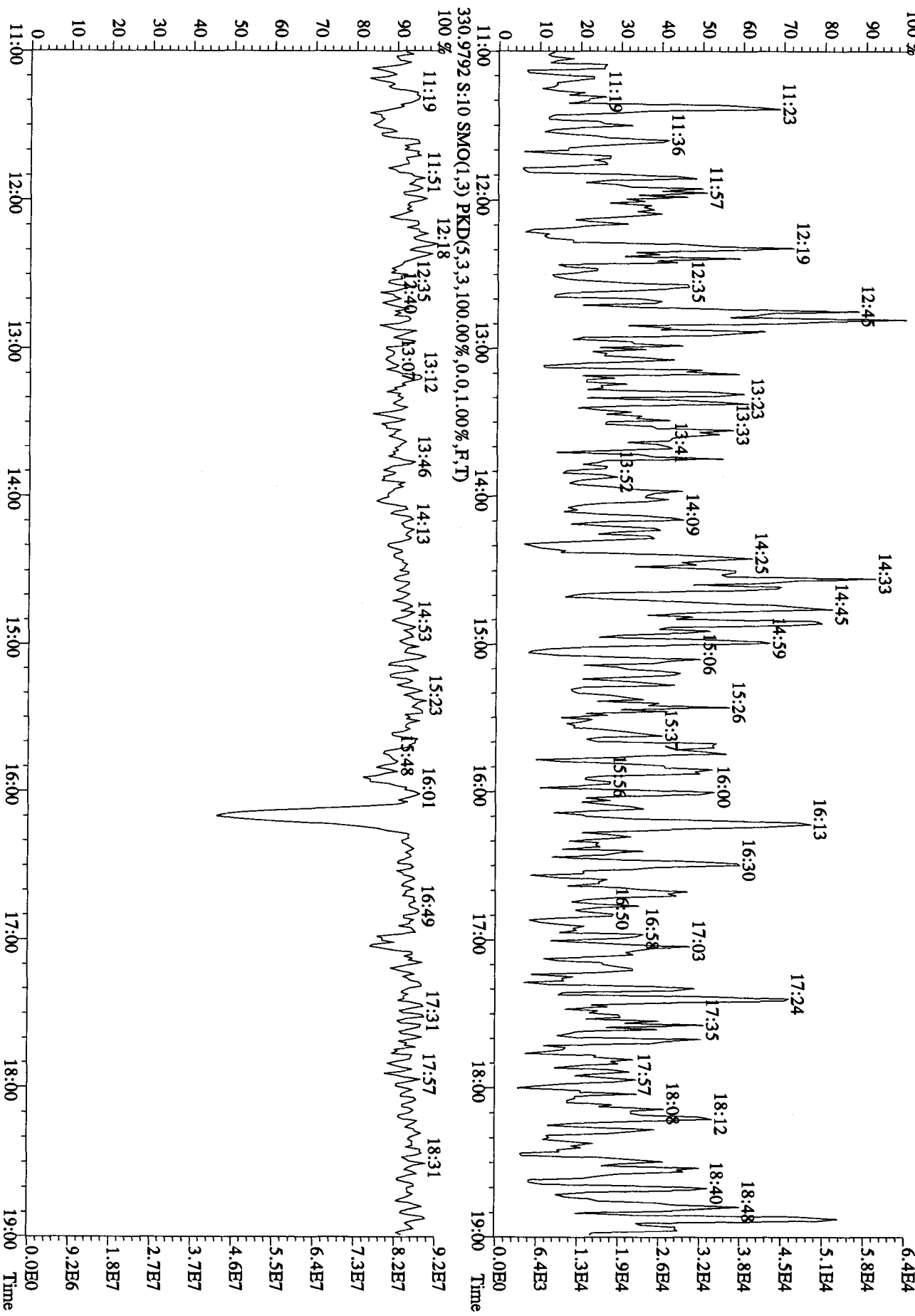
333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,20048,0,1.00%,F,T)



File:23DE09A5D2 #1-1242 Acq:24-DEC-2009 04:34:30 GC EI+ Voltage SIR 70SE
 Sample#10 Text:ST1223D :CS3 09DXN384 Exp:DB225
 327.8840 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10604,0,1,00%,F,T)
 100% A1.45E7



File:23DE09A5D2 #1-1242 Acq:24-DEC-2009 04:34:30 GC EI+ Voltage SIR 70SE
 Sample#10 Text:ST1223D :CS3 09DXN384 Exp:DB225
 375.8364 S:1.0 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,21072.0,1.00%,F,T)



Daily Calibration Checklist
Dioxin Methods

Method ID 8290
 Column ID DB225
 STD ID ST0105A, ST0105B
 Analyzed by M.G.
 Std. Pkg. By M.G.
 Std. Pkg. Reviewed By MCW

Associated ICAL DB225010410502
 Instrument ID 502
 STD Solution 09DXN425
 Date Analyzed 1/5/10
 Date Std. Pkg. Assembled 1/6/10
 Date Std. Pkg. Reviewed 1/6/10

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 \leq method specified limits?*	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS:

* Method 8290/T09/M0023A: (beginning) \leq 20% from curve RRFs for native analytes, \leq 30% from curve RRFs for labeled compounds.

Method 8290/T09/M0023A: (ending) \leq 25% from curve RRFs for native analytes, \leq 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/T09 CPSM Criteria: 25% valley between 2378 TCDF (DB-225)/TCDD (DB-5) and its closest eluters normalized to the 2378 peak.

Run text: ST0105A

File text: ST0105A :CS3 09DXN425

Run #6 Filename 05JA105D2 S: 5

I: 1

Acquired: 5-JAN-10 12:40:53

Processed: 5-JAN-10 19:05:25

Run: 05JA105D2 Analyte: DB225

Cal: DB2250104105D2

Results: 05JA105D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	209007200	0.78 y	14:16	-	100.00	-	n
13C-2,3,7,8-TCDF	356154000	0.78 y	15:22	1.70	100.00	2.4	n
2,3,7,8-TCDF	35547200	0.84 y	15:24	1.00	10.00	-1.5	n
13C-2,3,7,8-TCDD	204017800	0.78 y	14:02	0.98	100.00	2.6	n
2,3,7,8-TCDD	24843600	0.82 y	14:03	1.22	10.00	3.0	n
37Cl-2,3,7,8-TCDD	47185600	1.00 y	14:03	2.26	10.00	9.2	n

Run text: ST0105B

File text: ST0105B :CS3 09DXN425

Run #17 Filename 05JA105D2 S: 17

I: 1

Acquired: 5-JAN-10 20:05:23

Processed: 5-JAN-10 20:53:41

Run: 05JA105D2 Analyte: DB225

Cal: DB2250104105D2

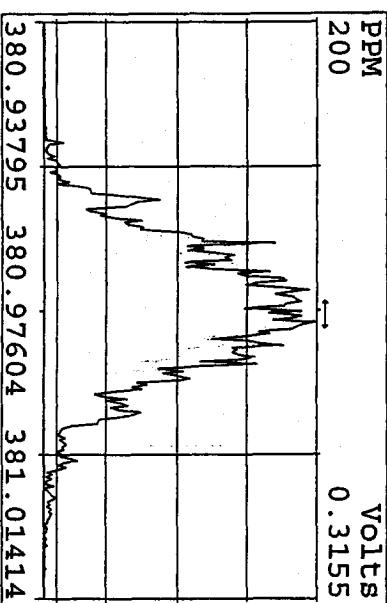
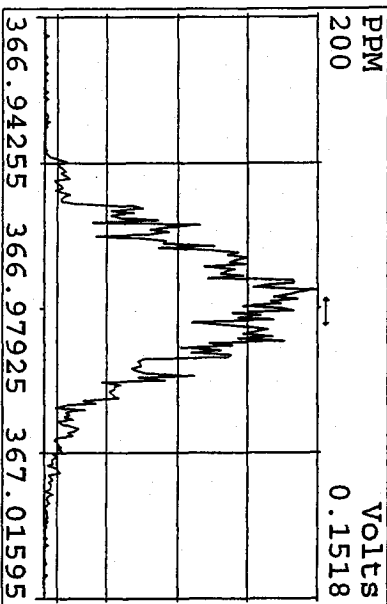
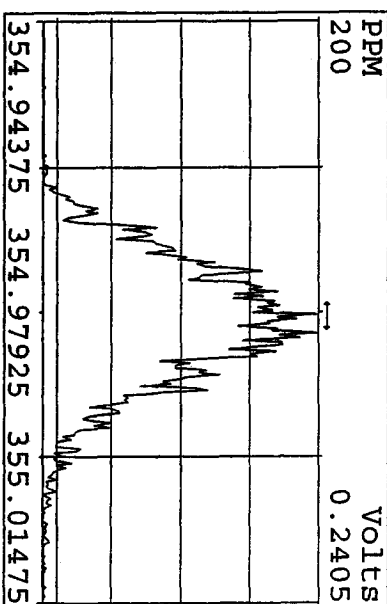
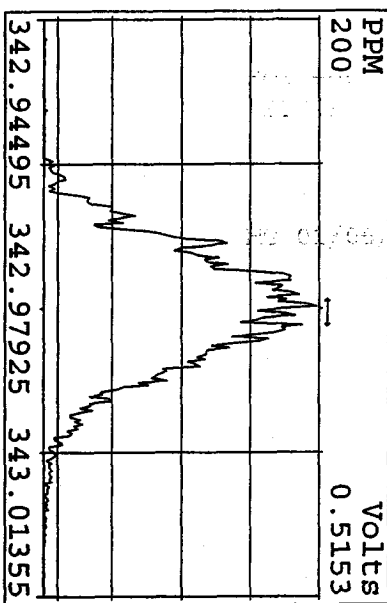
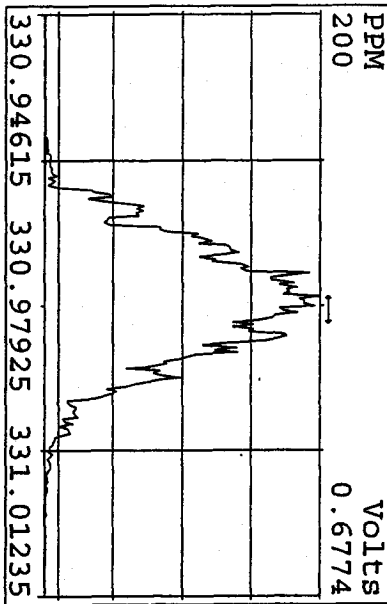
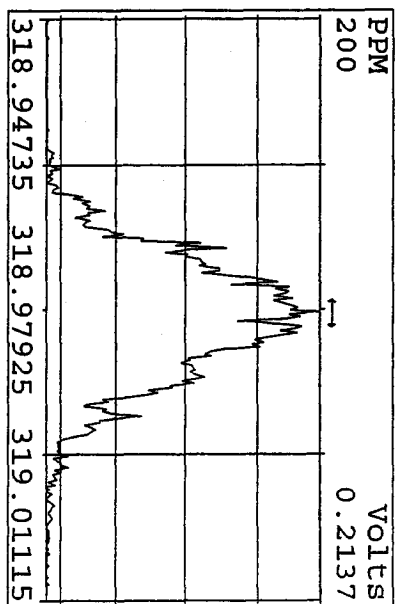
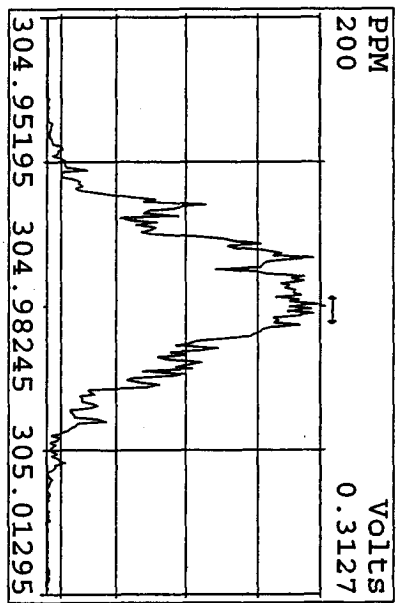
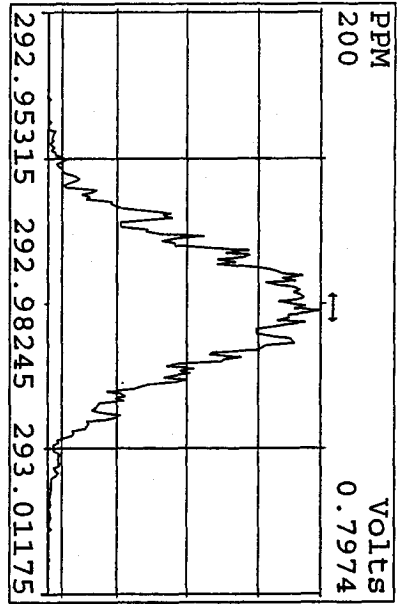
Results: 05JA105D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	175376400	0.76 y	14:15	-	100.00	-	n
13C-2,3,7,8-TCDF	333343000	0.78 y	15:22	1.90	100.00	14.3	n
2,3,7,8-TCDF	32069600	0.80 y	15:23	0.96	10.00	-5.1	n
13C-2,3,7,8-TCDD	188180000	0.77 y	14:02	1.07	100.00	12.8	n
2,3,7,8-TCDD	22852900	0.81 y	14:03	1.21	10.00	2.7	n
37C1-2,3,7,8-TCDD	44433600	1.00 y	14:03	2.53	10.00	22.5	n

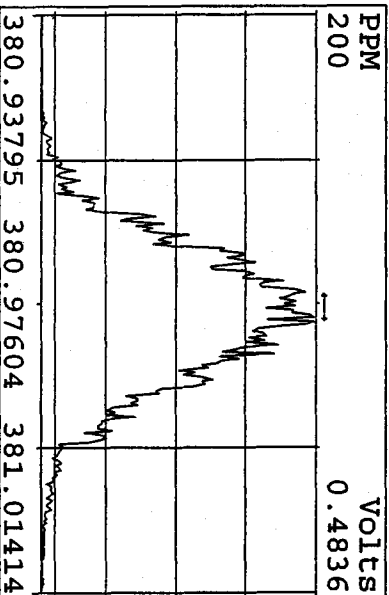
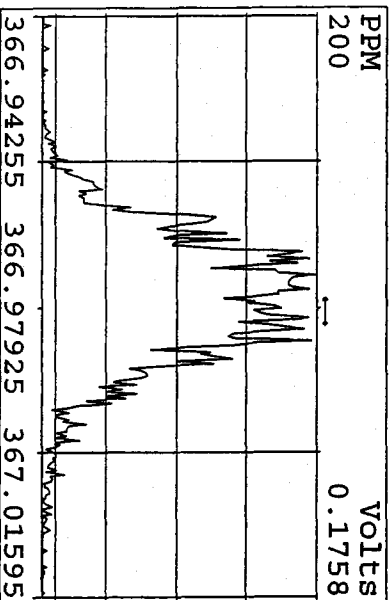
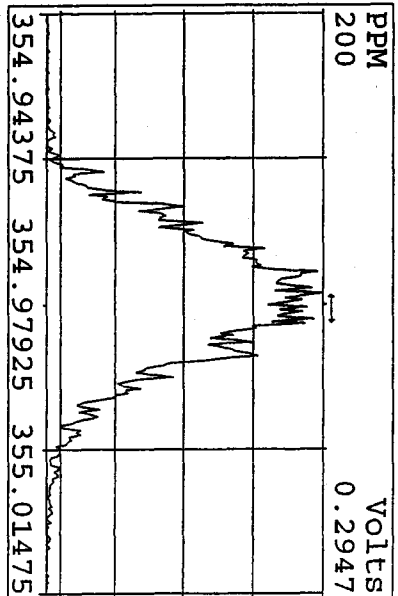
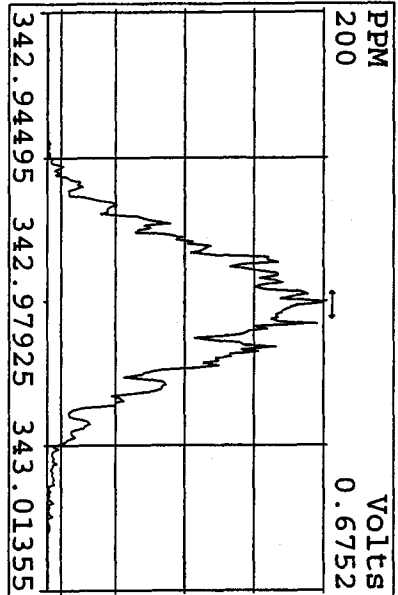
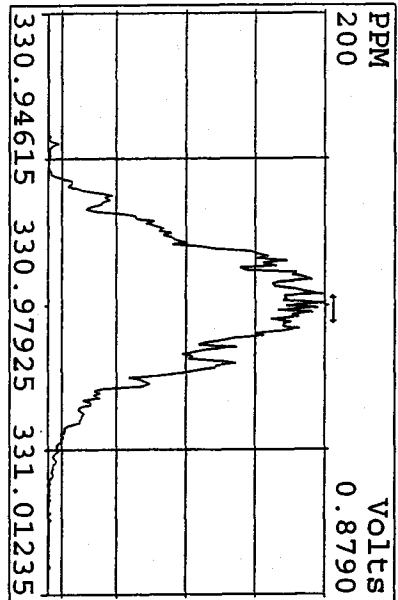
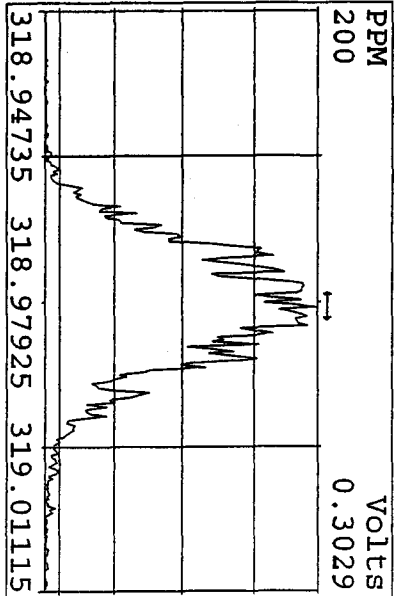
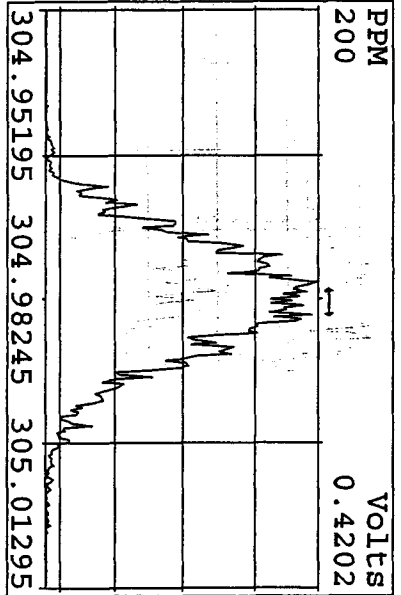
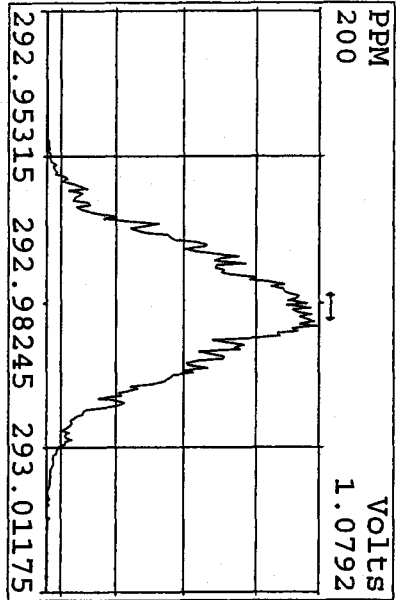
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
05JA105D2	1	ST0105	CS3 09DXN425				1.000	
05JA105D2	2	CP0105	DB-225 CPSM 3732-01				1.000	
05JA105D2	3		G9J220258-1	20	1613B/WATER		1.000	L
05JA105D2	4	CP0105A	DB-225 CPSM 3732-01				1.000	
05JA105D2	5	ST0105A	CS3 09DXN425				1.000	
05JA105D2	6	SB0105	Solvent Blank C-14				1.000	
05JA105D2	7	LQ2K8-3-AC	G9L120491-3RX	10	8290/SOLID	75	10.310	g
05JA105D2	8	LQ2LD-3-AC	G9L120491-7RX	10	8290/SOLID		10.100	g
05JA105D2	9	LQ2LE-3-AC	G9L120491-8RX	10	8290/SOLID		10.020	g
05JA105D2	10	LQ2LE-1-AF	G9L120491-8S	10	8290/SOLID		10.080	g
05JA105D2	11	LQ2LE-1-AG	G9L120491-8D	10	8290/SOLID		10.170	g
05JA105D2	12	LQ023-3-AC	G9L110588-22RX	10	8290/SOLID	76	10.010	g
05JA105D2	13	LQ027-3-AC	G9L110588-25RX	10	8290/SOLID		10.030	g
05JA105D2	14	LQ027-1-AD	G9L110588-25S	10	8290/SOLID		10.180	g
05JA105D2	15	LQ027-1-AE	G9L110588-25D	10	8290/SOLID		10.030	g
05JA105D2	16	SB0105A	Solvent Blank C-14				1.000	
05JA105D2	17	ST0105B	CS3 09DXN425				1.000	
05JA105D2	18						1.000	
05JA105D2	19						1.000	
05JA105D2	20						1.000	
05JA105D2	21		MG 01/05/10				1.000	

log file checked
1-05-10 am

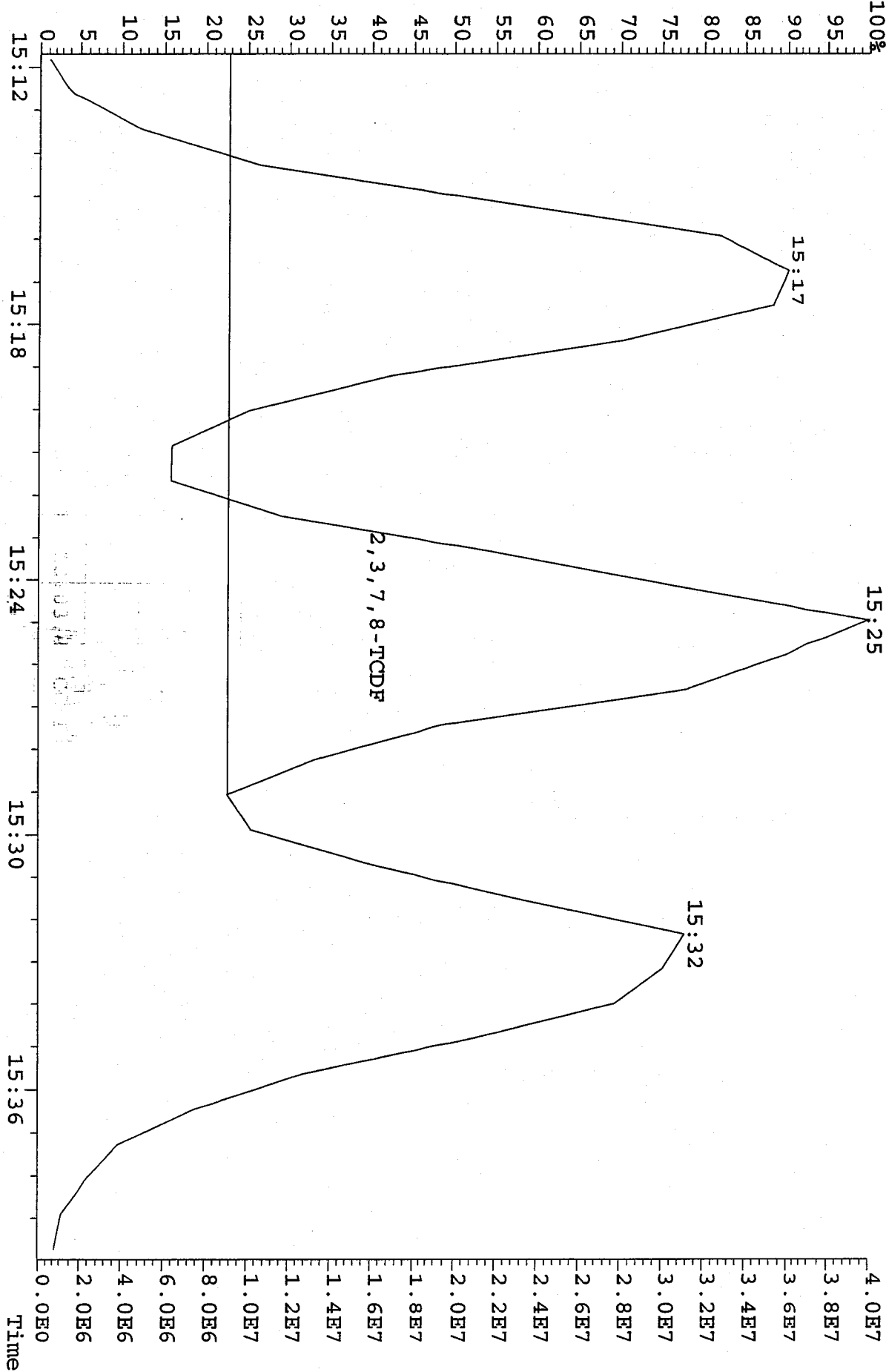
Peak Locate Examination: 5-JAN-2010:10:10 File:05JA105D2
Experiment:DB225 Function:1 Reference:PFK



Peak Locate Examination: 5-JAN-2010:20:59 File:RSCCHK05JA105D2
 Experiment:DB25 Function:1 Reference:PFK



File: 05JJA105D2 #1-1242 Acq: 5-JAN-2010 12:03:47 GC EI+ Voltage SIR 70SE
 305.8987 S:4 Exp:DB225
 Sample Text:CP0105A :DB-225 CPSM 3732-01



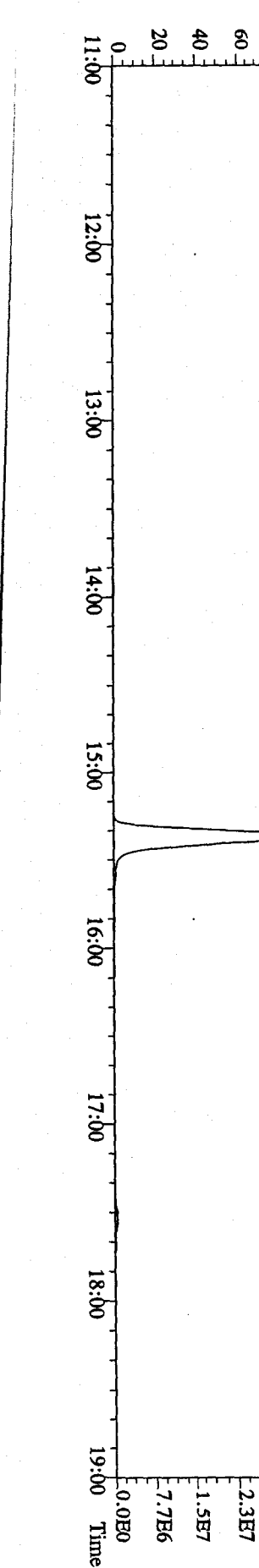
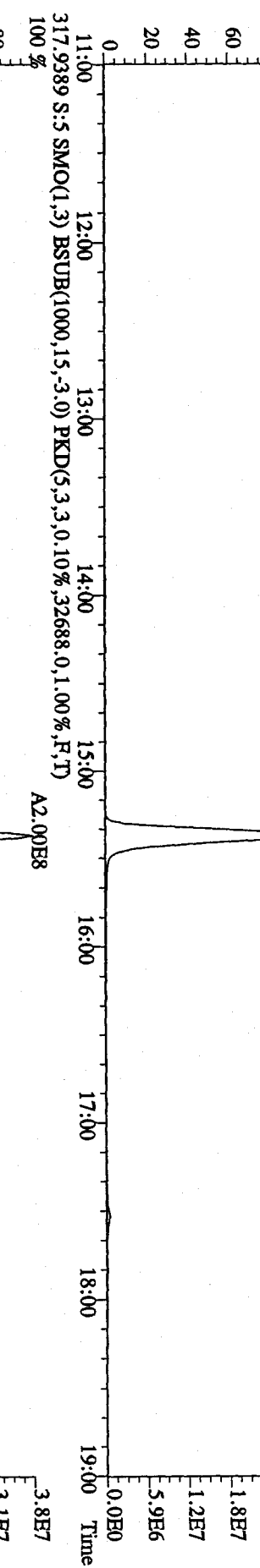
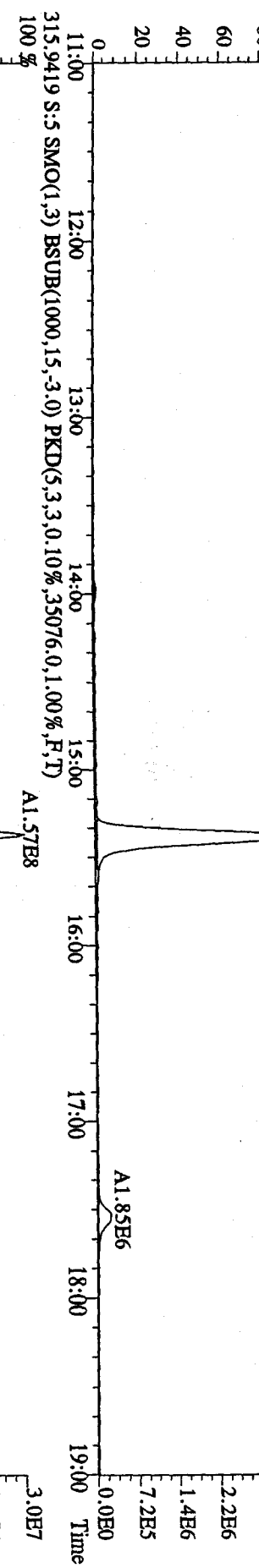
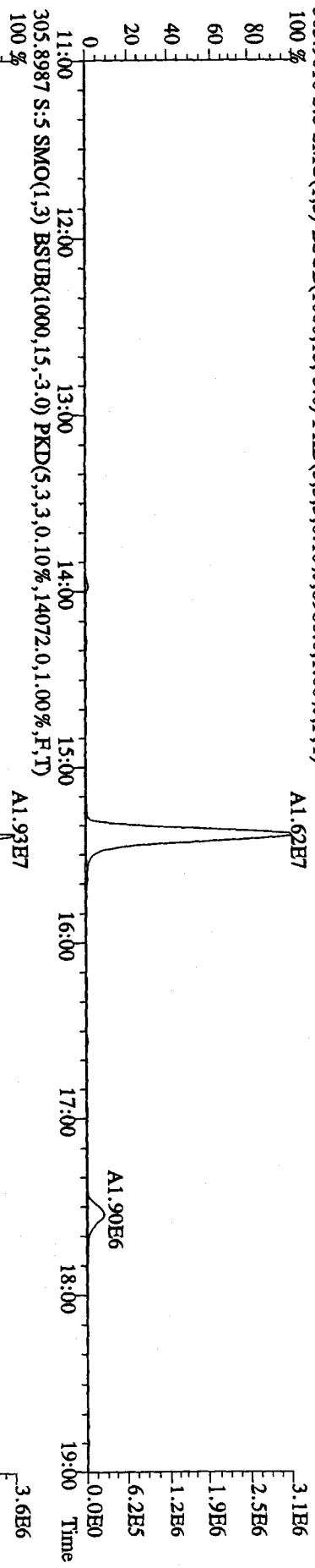
Run: 05JAI05D2 Analyte: DB225 Cal: DB2250104105D2

ST0104D : CS-1 09DXN422 ST0104E : CS-2 09DXN423 ST0104F : CS-3 09DXN425
 ST0104G : CS-5 09DXN456 ST0104H : CS-4 09DXN426

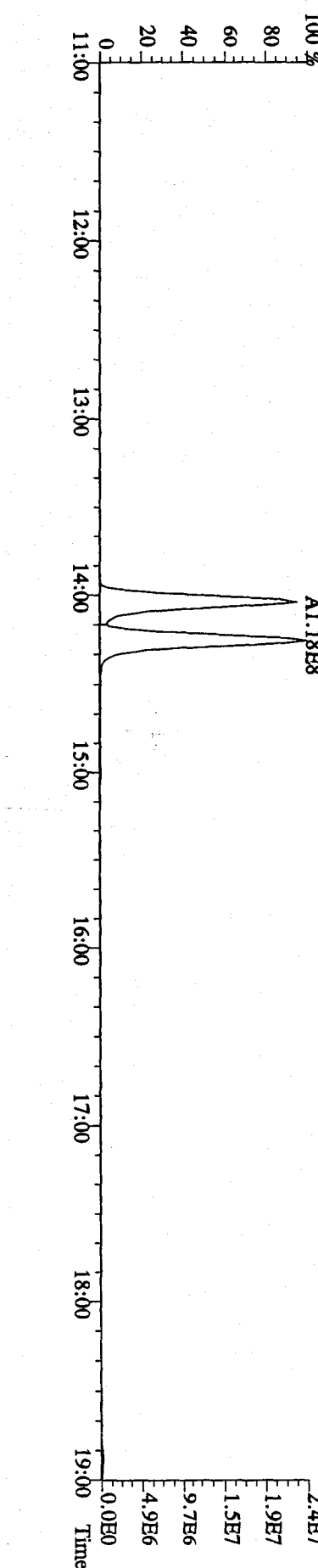
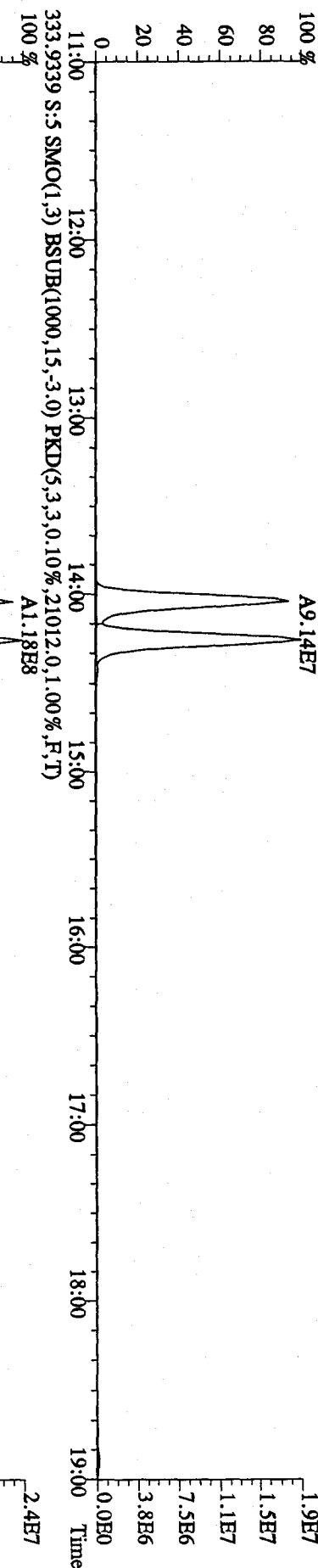
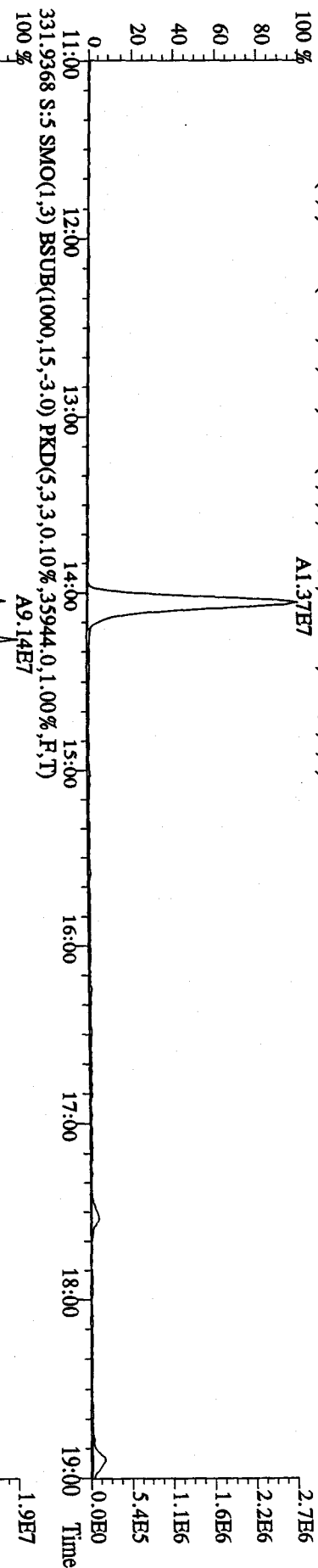
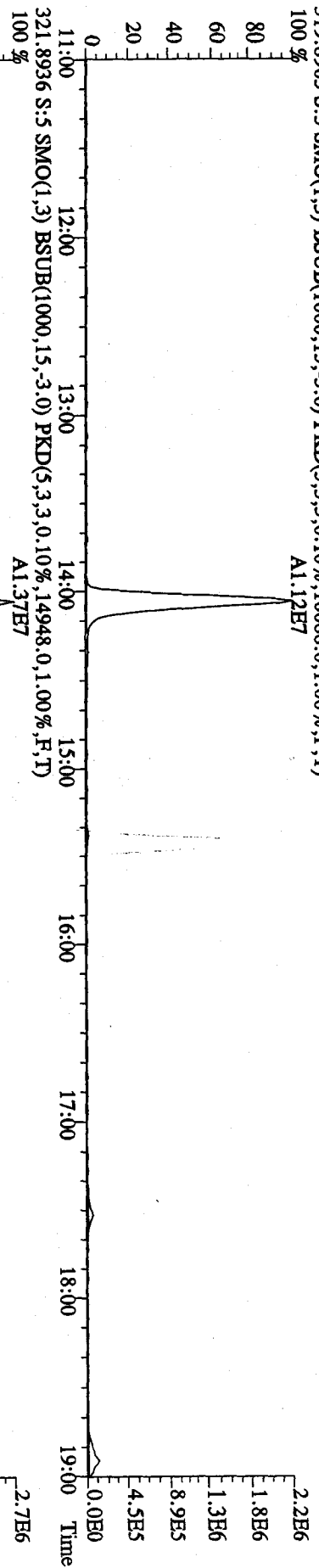
04JAI0B5D204JAI0B5D204JAI0B5D204JAI0B5D204JAI0B5D204JAI0B5D2

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.664	0.062	3.75 %	1.65	1.58	1.73	1.72	1.64
2,3,7,8-TCDF	1.014	0.078	7.69 %	1.14	0.94	0.97	1.01	1.00
13C-2,3,7,8-TCDD	0.951	0.045	4.78 %	0.98	0.90	0.99	0.98	0.91
2,3,7,8-TCDD	1.183	0.038	3.23 %	1.19	1.21	1.12	1.18	1.22
37Cl-2,3,7,8-TCDD	2.068	0.541	26.2 %	2.60	2.20	1.15	2.23	2.16

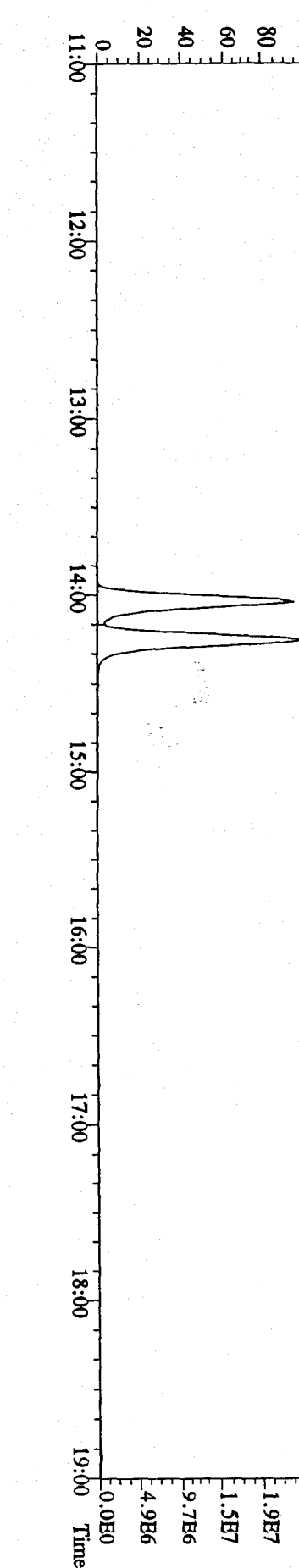
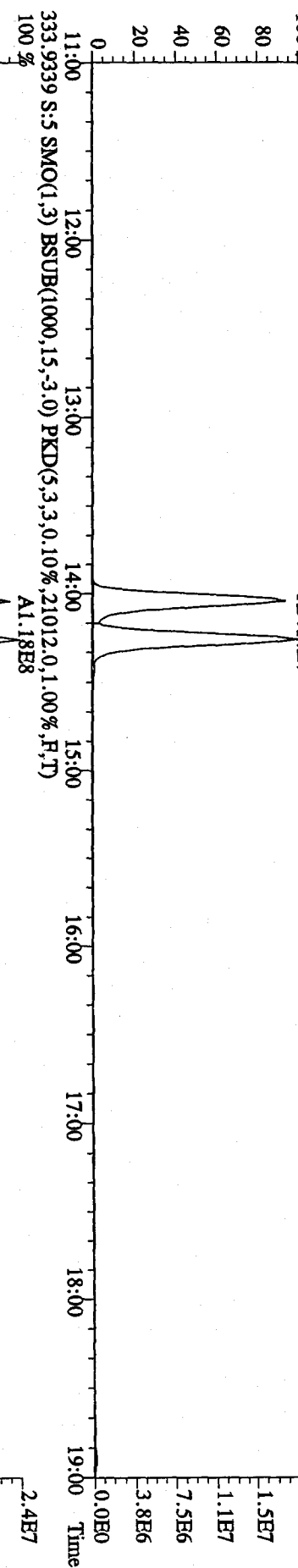
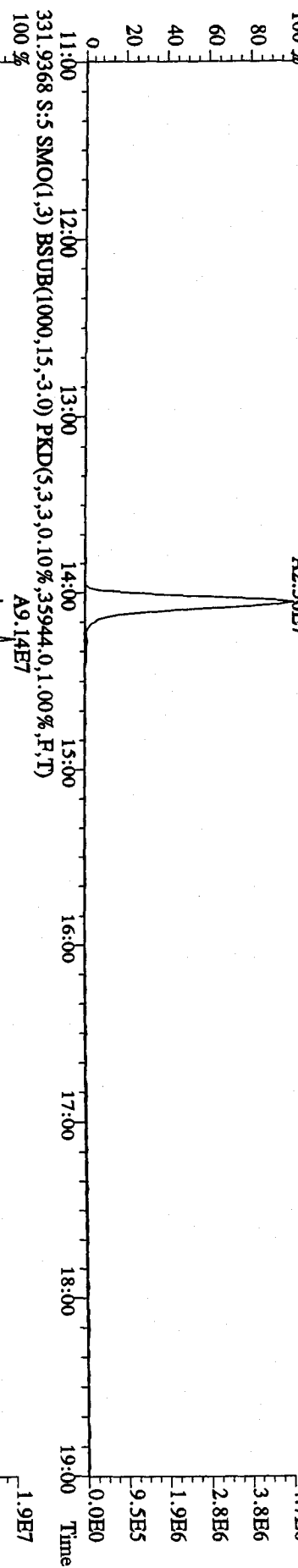
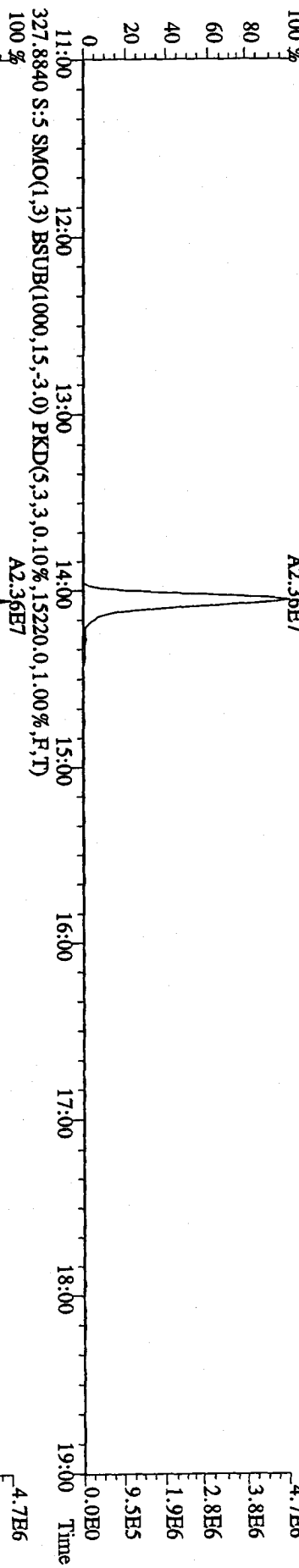
File:05JA105ID2 #1-1242 Acq: 5-JAN-2010 12:40:53 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST0105A :CS3 09DXN425 Exp:DB225
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8980,0,1.00%,F,T) 100%



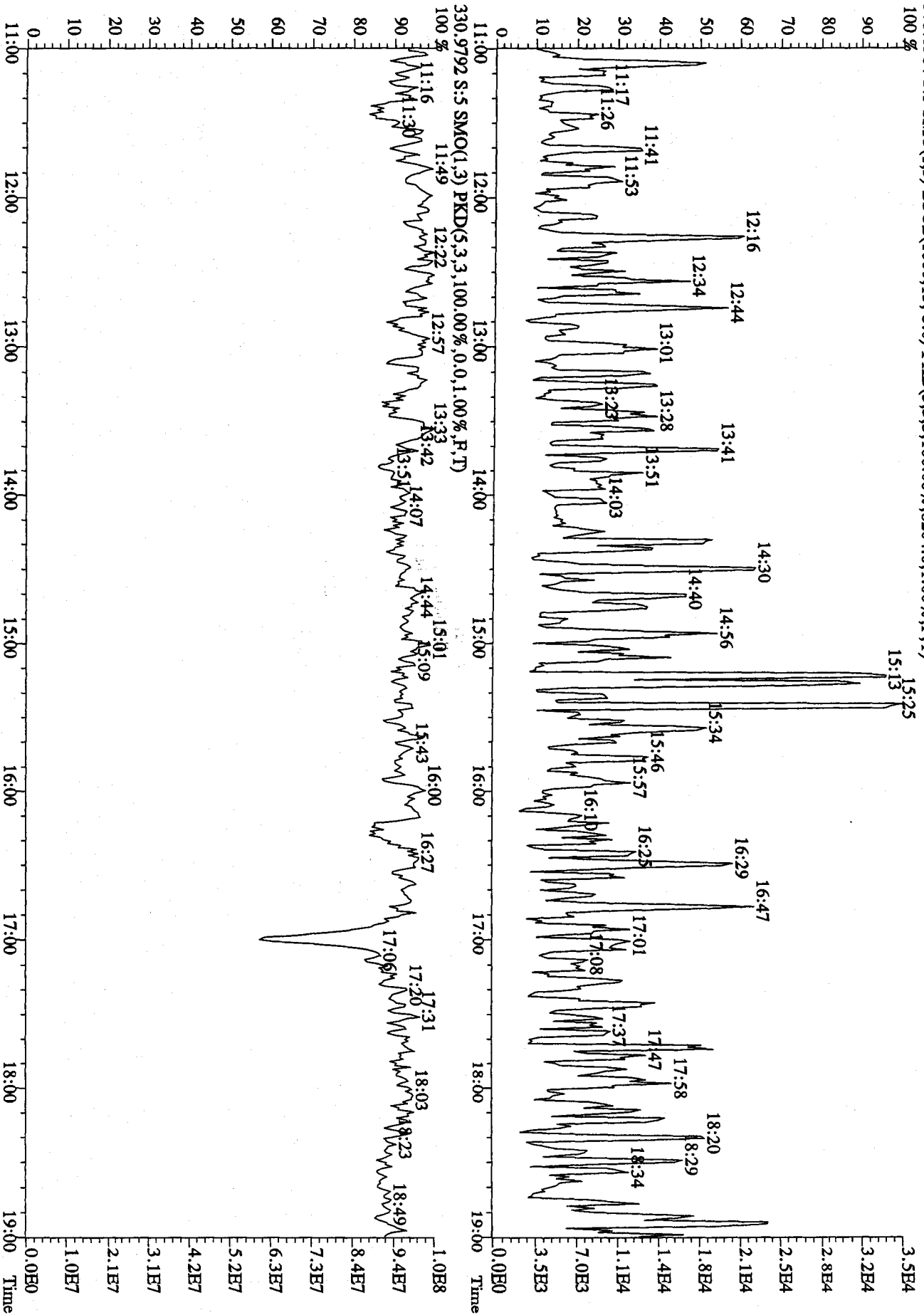
File:051A105D2 #1-1242 Acq: 5-JAN-2010 12:40:53 GC EI+ Voltage SIR 70SE
 Sample#5 Text:STD105A :CS3 09DXN425 Exp:DB225
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10088.0,1.00%,F,T)
 100% A1.12E7



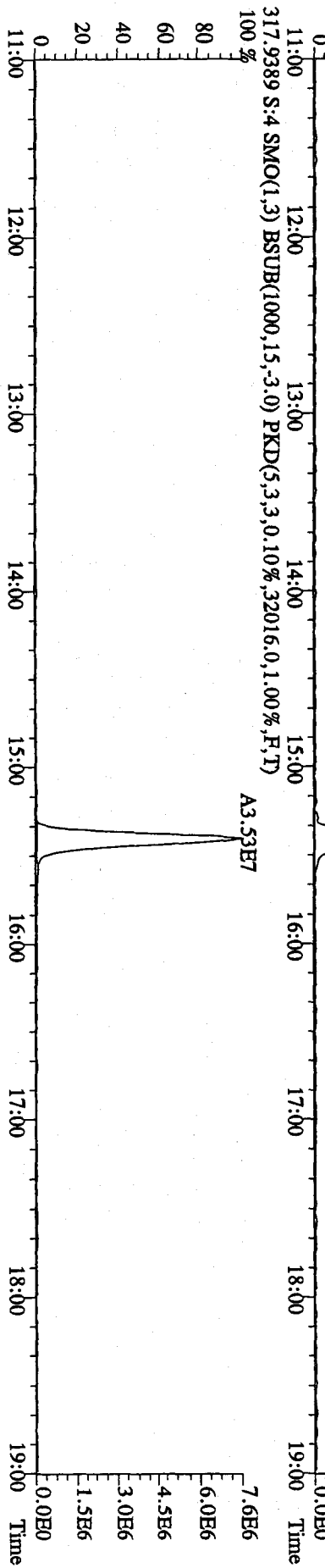
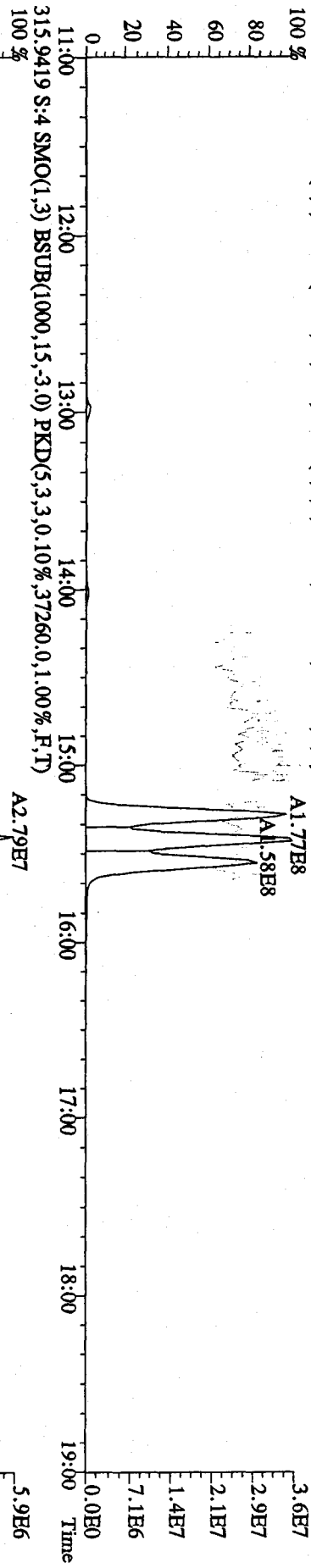
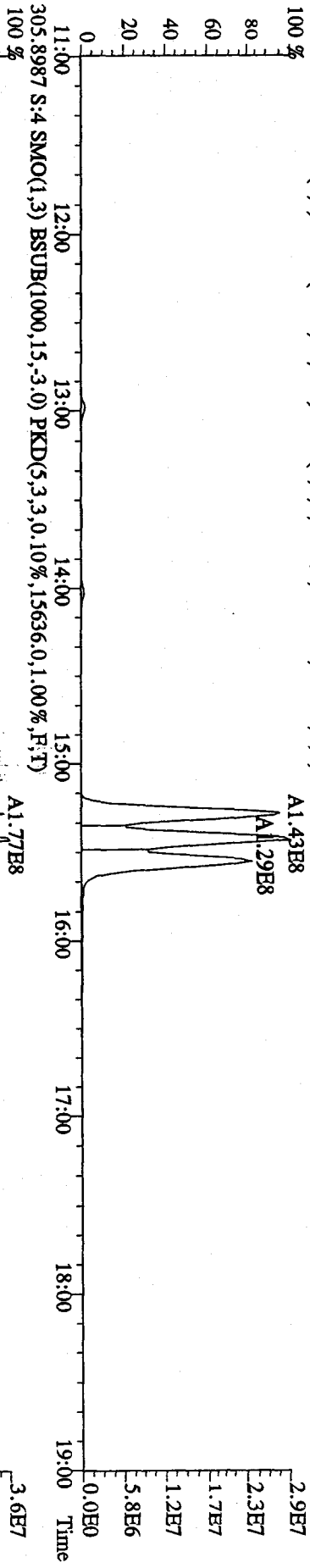
File:051A105D2 #1-1242 Acq: 5-JAN-2010 12:40:53 GC EI+ Voltage SIR 70SB
 Sample#5 Text:ST0105A :CS3 09DXN425 Exp:DB225
 327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15220.0,1.00%,F,T)
 100% A2.36E7



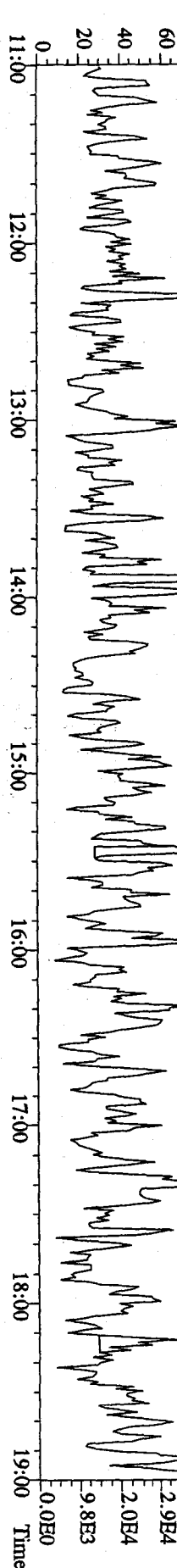
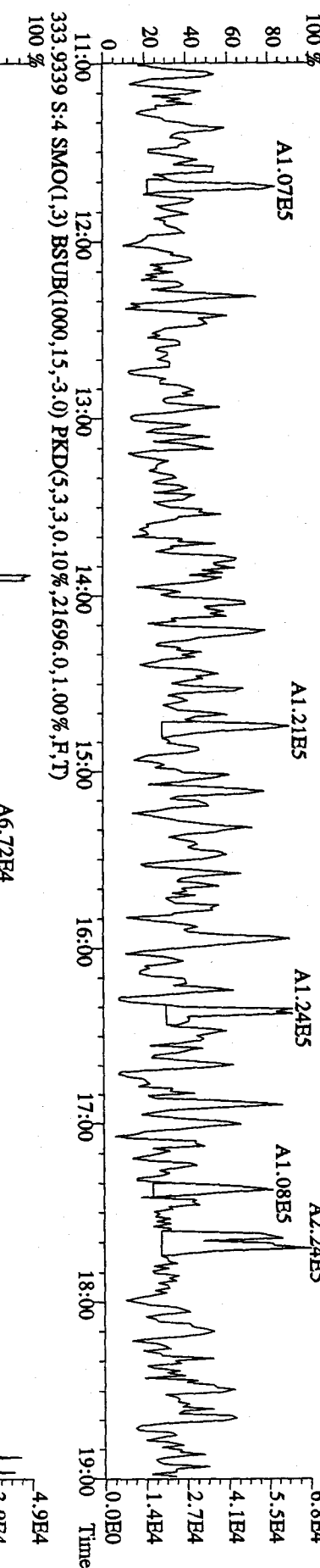
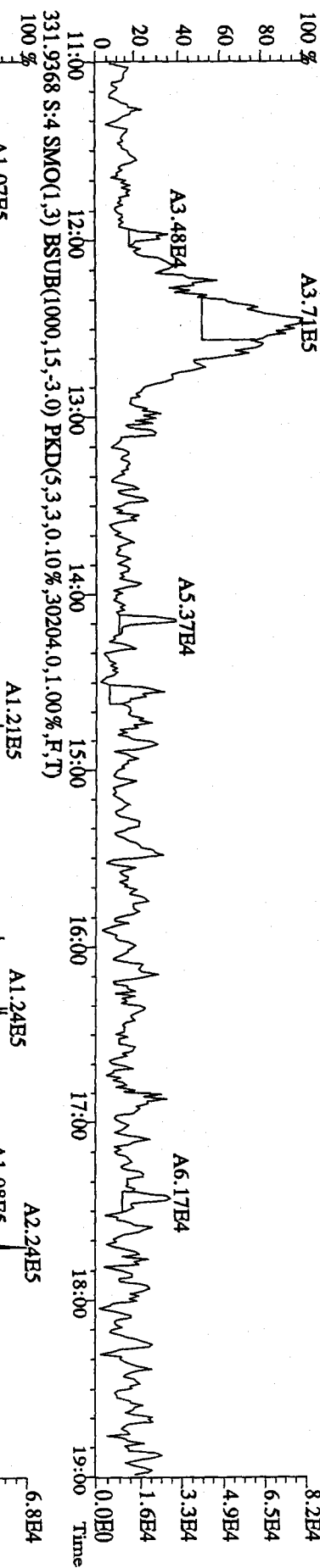
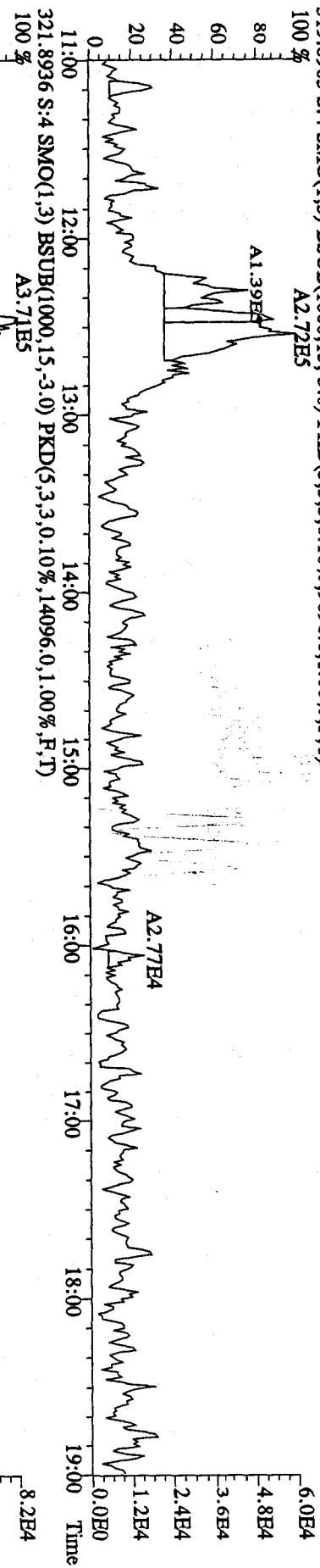
File:051A105D2 #1-1242 Acq: 5-JAN-2010 12:40:53 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST0105A :CS3 09DXN425 Exp:DB225
 375.8364 S:5 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,100.00%,8204,0,1.00%,F,T)



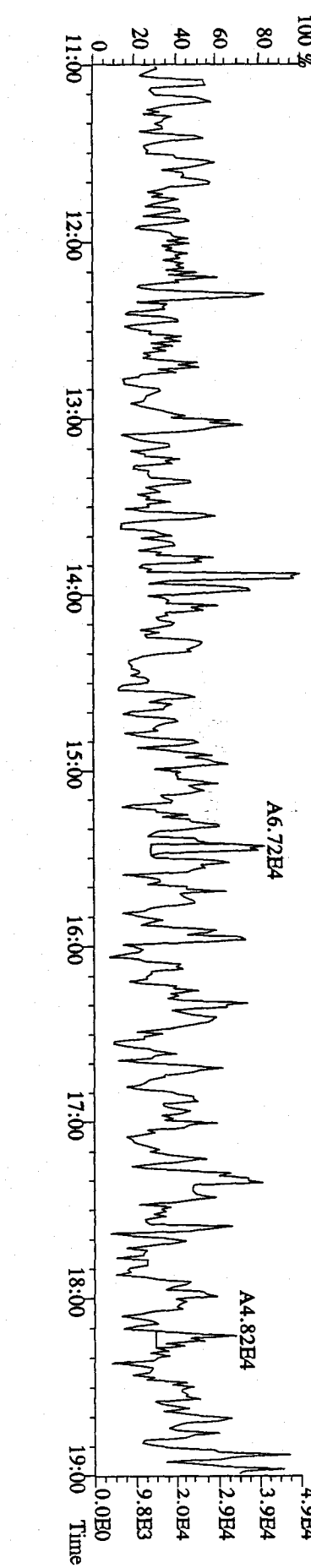
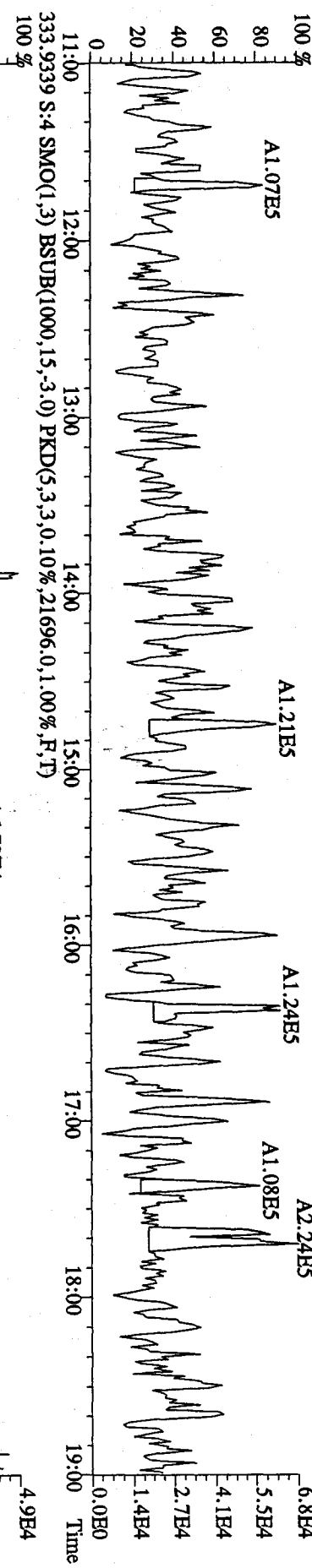
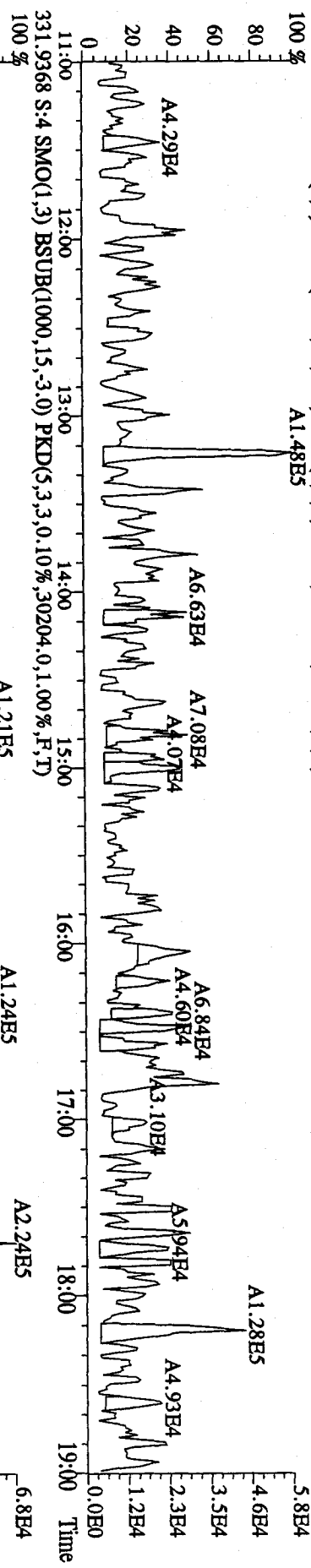
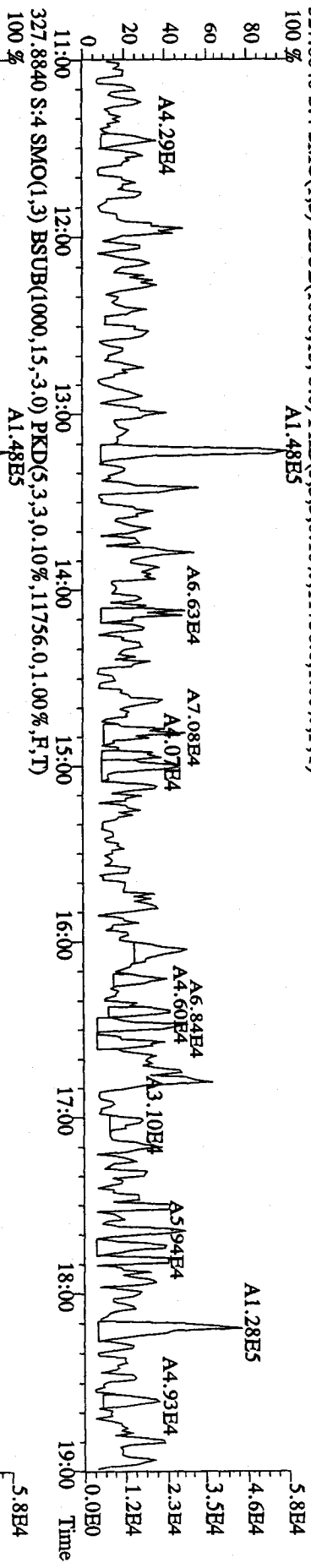
File:05JA105D2 #1-1242 Acq: 5-JAN-2010 12:03:47 GC EI+ Voltage SIR 70SE
 Sample#4 Text:CP0105A :DB-225 CPISM 3732-01 Exp:DB225
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13472.0,1.00%,F,T) 100%



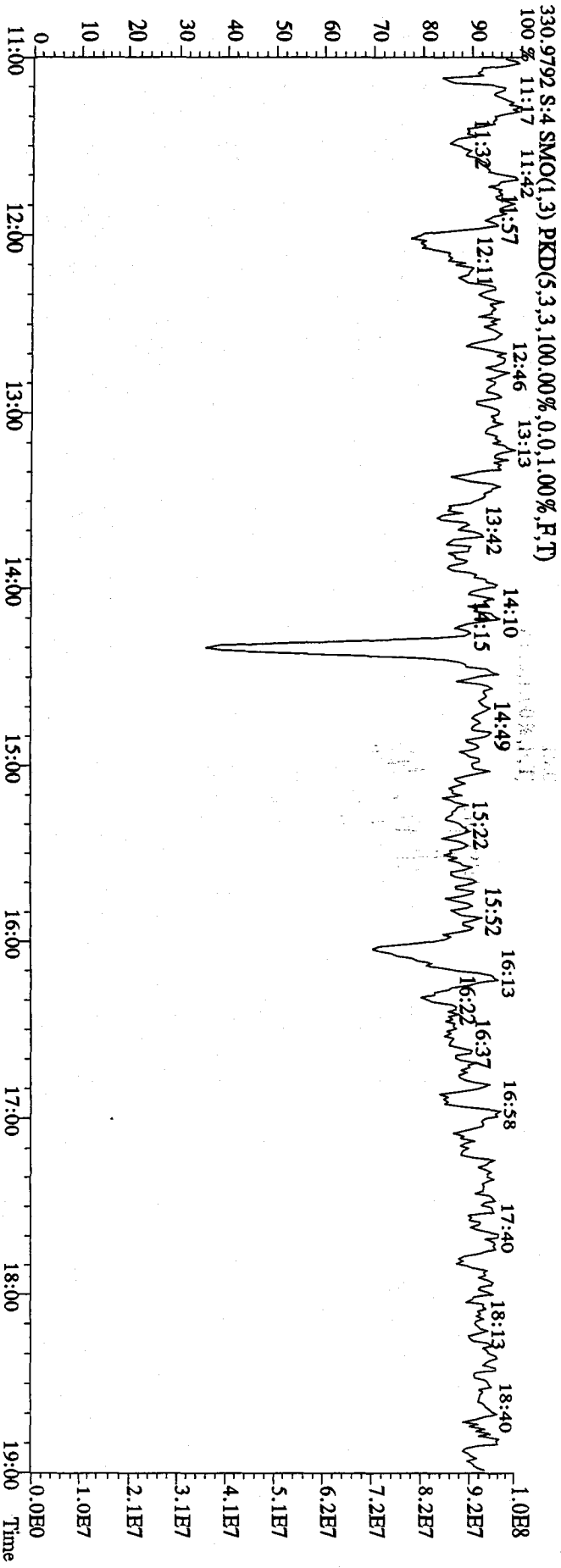
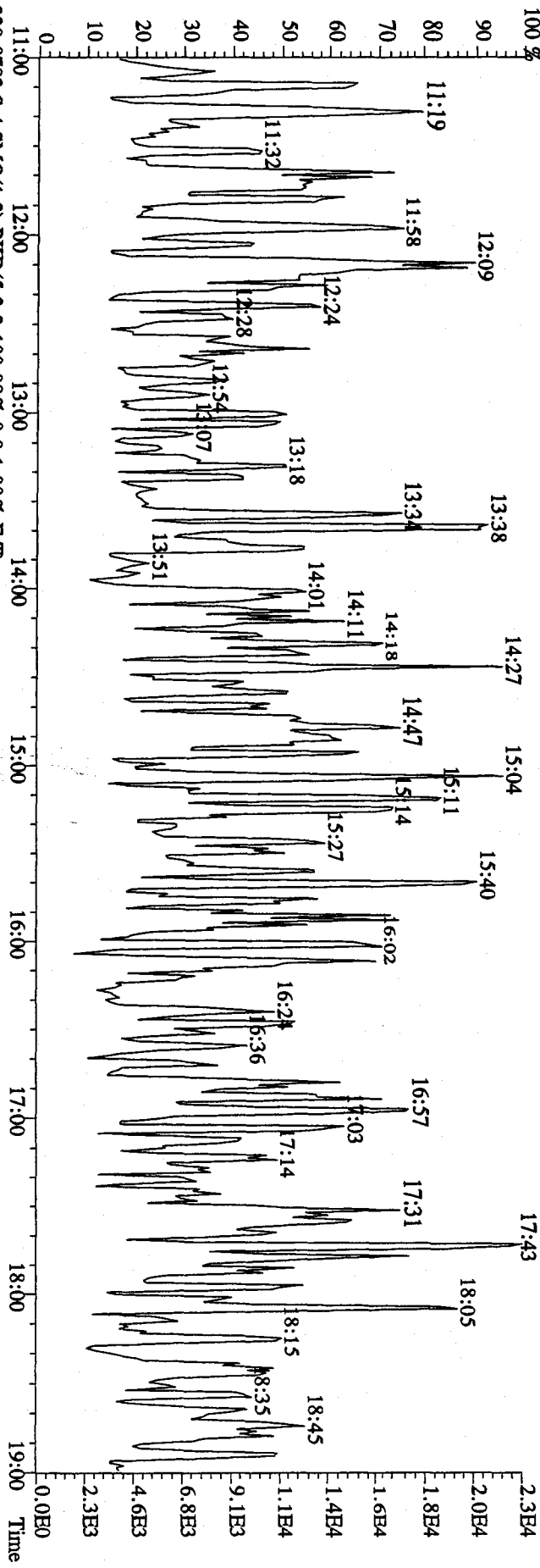
File:051A105D2 #1-1242 Acq: 5-JAN-2010 12:03:47 GC EI+ Voltage SIR 70SE
 Sample#4 Text:CP0105A :DB-225 CFSM 3732-01 Exp:DB225
 319.8965 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9896.0,1.00%,F,T)
 100% A2.72E5



File:051A105D2 #1-1242 Acq: 5-JAN-2010 12:03:47 GC EI+ Voltage SIR 70SE
 Sample#4 Text:CP0105A :DB-225 CP5M 3732-01 Exp:DB225
 327.8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,11756,0,1,00%,F,T)
 100% A1.48E5



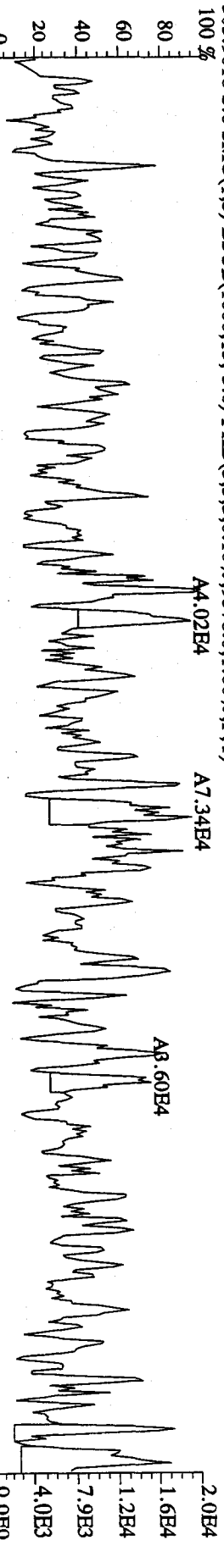
File:051A105D2 #1-1242 Acq: 5-JAN-2010 12:03:47 GC EI+ Voltage SIR 70SE
 Sample#4 Text:CP0105A :DB-225 CPM 3732-01 Exp:DB225
 375.8364 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,8004.0,1.00%,F,T)
 100 %



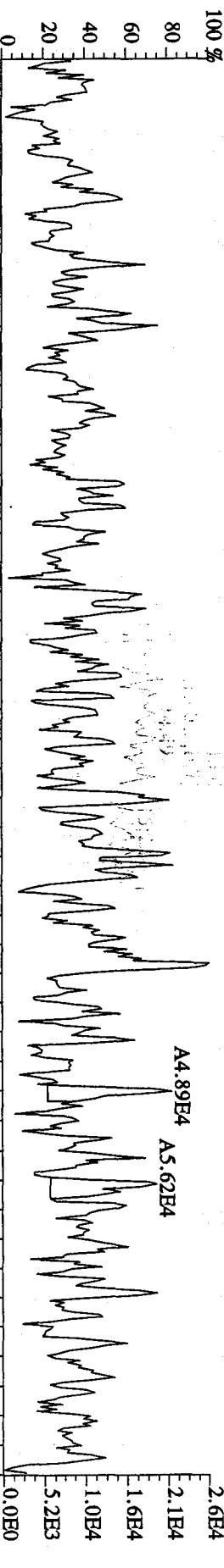
File:051A105D2 #1-1242 Acq: 5-JAN-2010 13:18:01 GC EI+ Voltage SIR 70SE

Sample#6 Text:SB0105 :Solvent Blank C-14 Exp:DB225

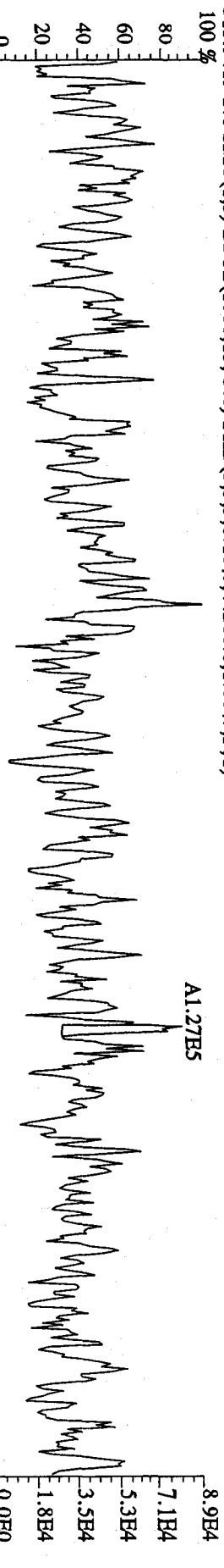
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9576.0,1.00%,F,T)



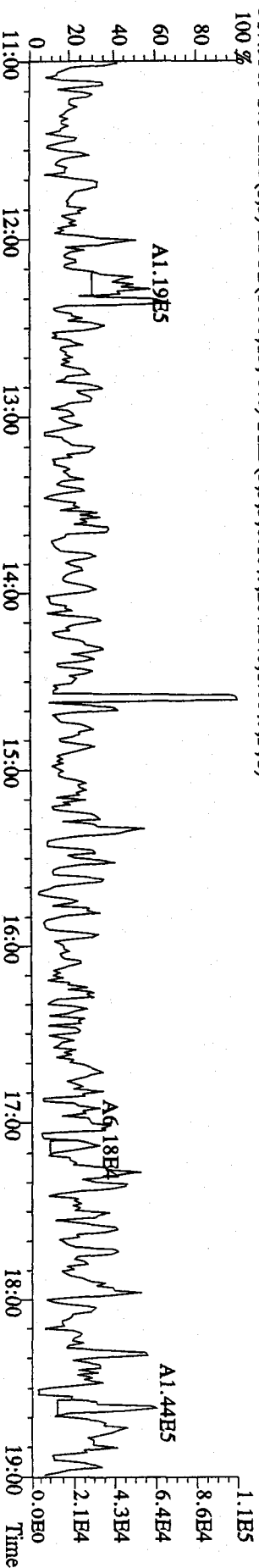
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11592.0,1.00%,F,T)



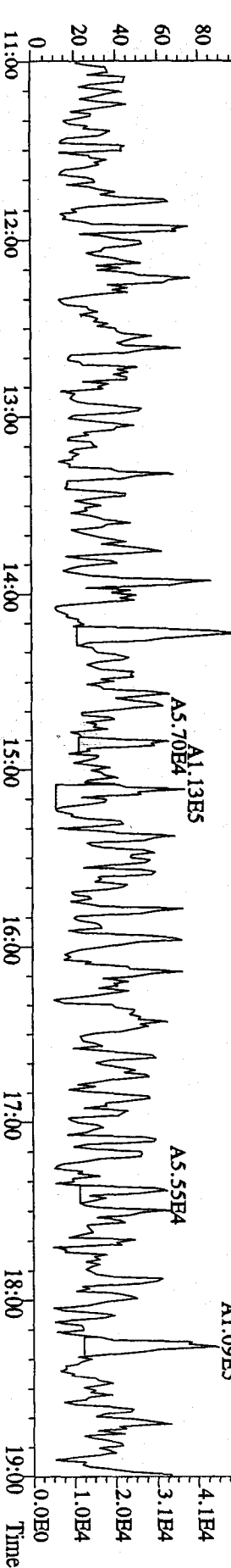
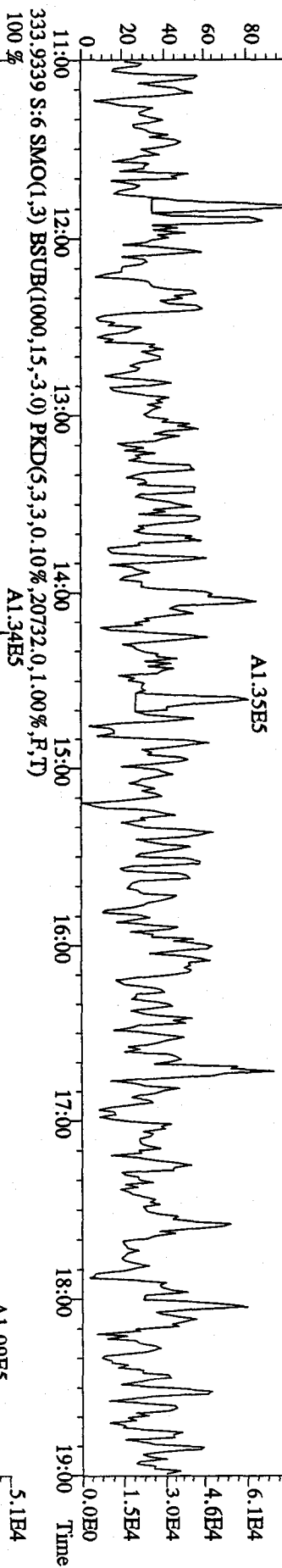
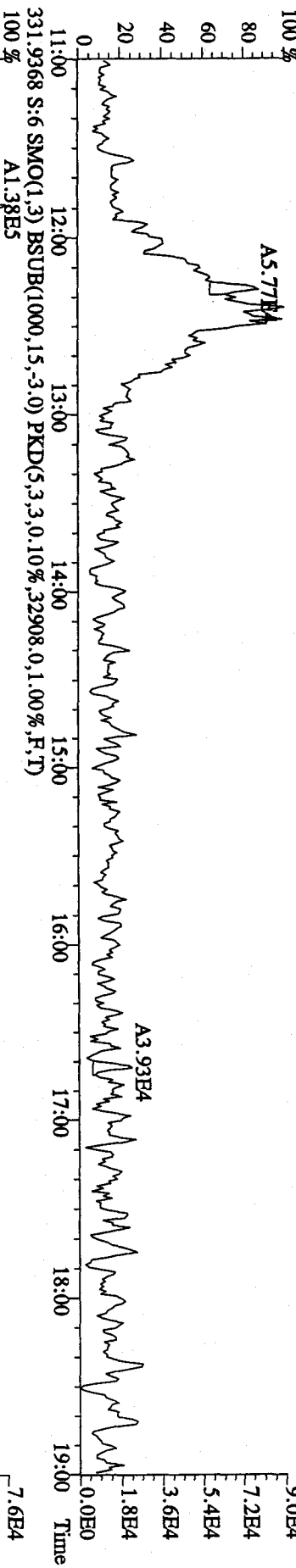
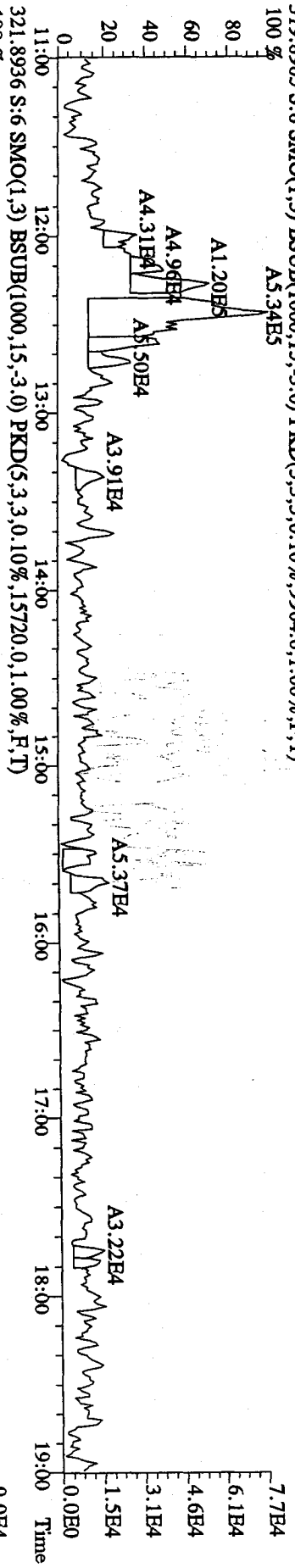
315.9419 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,44260.0,1.00%,F,T)



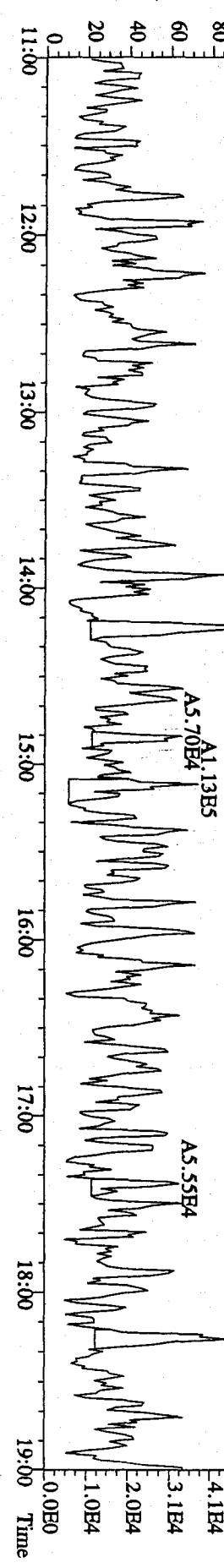
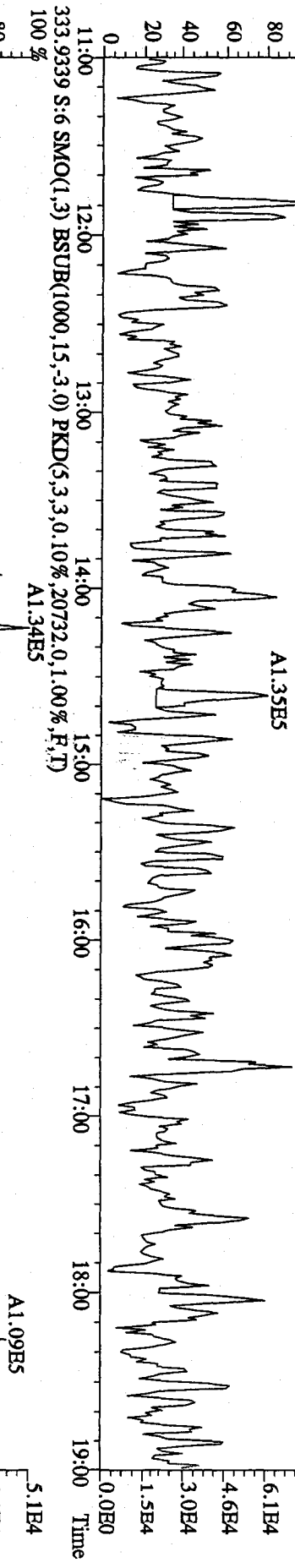
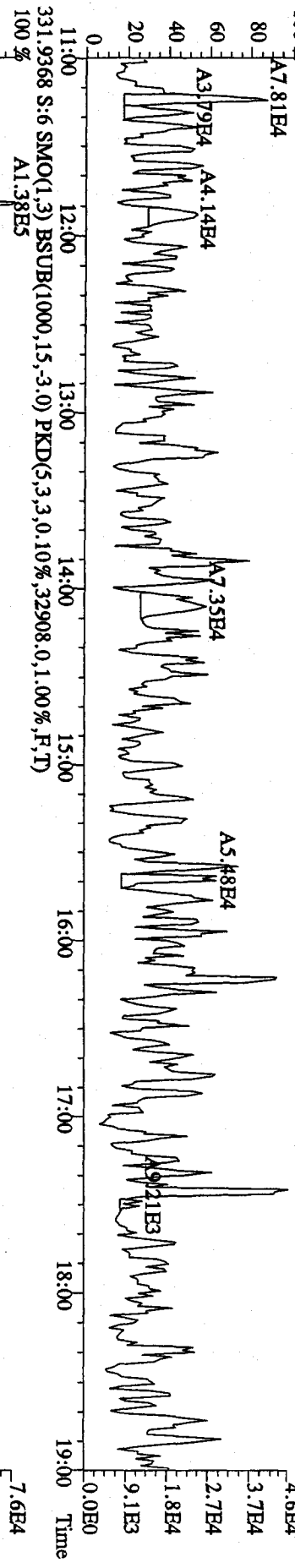
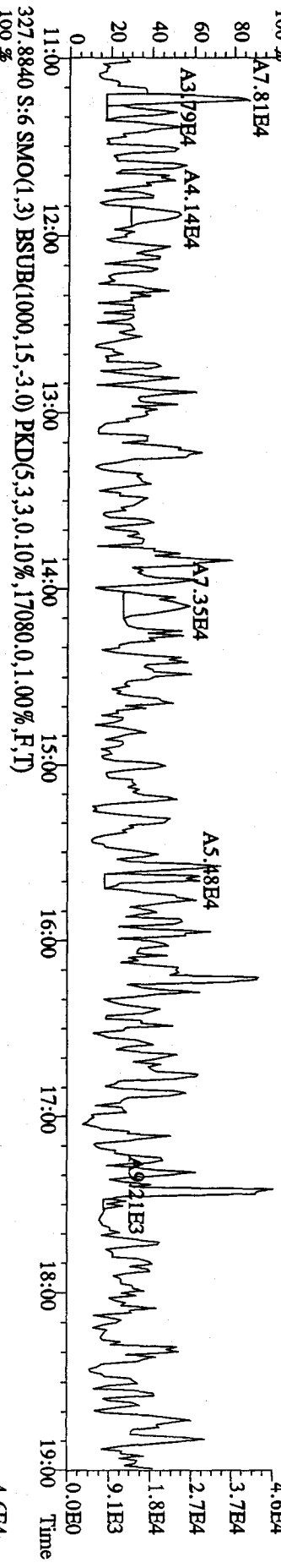
317.9389 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28720.0,1.00%,F,T)



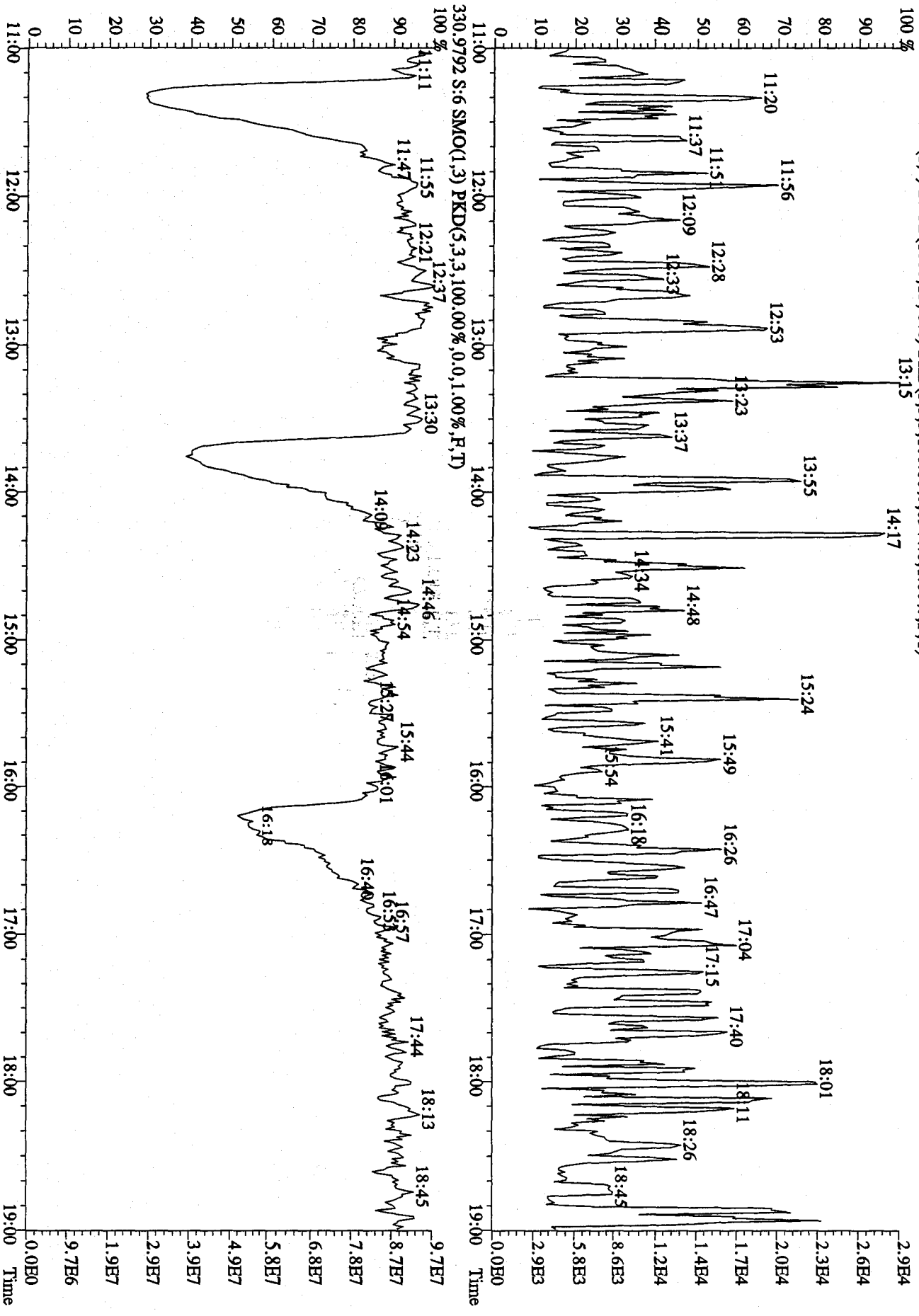
File:051A105D2 #-1-1242 Acq: 5-JAN-2010 13:18:01 GC EI+ Voltage SIR 70SE
 Sample#6 Text:SB0105 :Solvent Blank C-14 Exp:DB225
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9964,0,1,00%,F,T)
 100 % A5.34E5



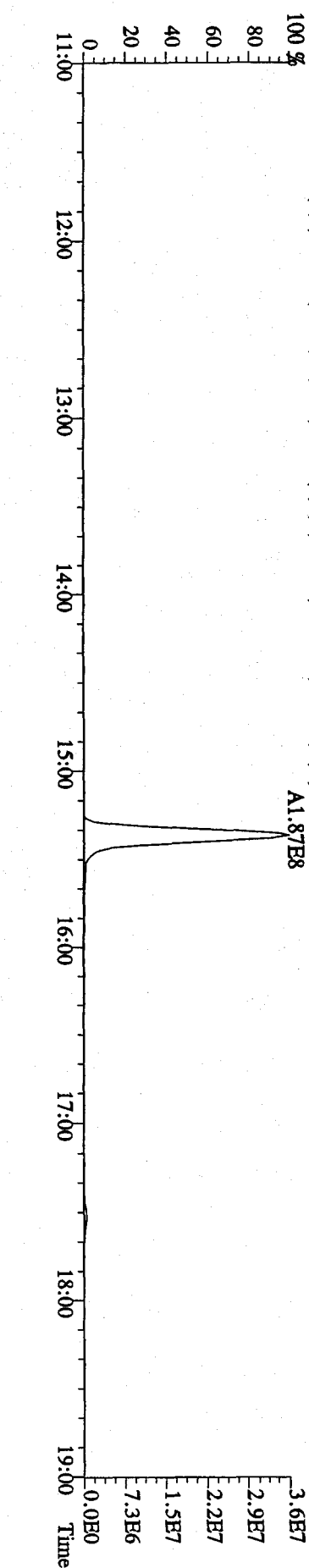
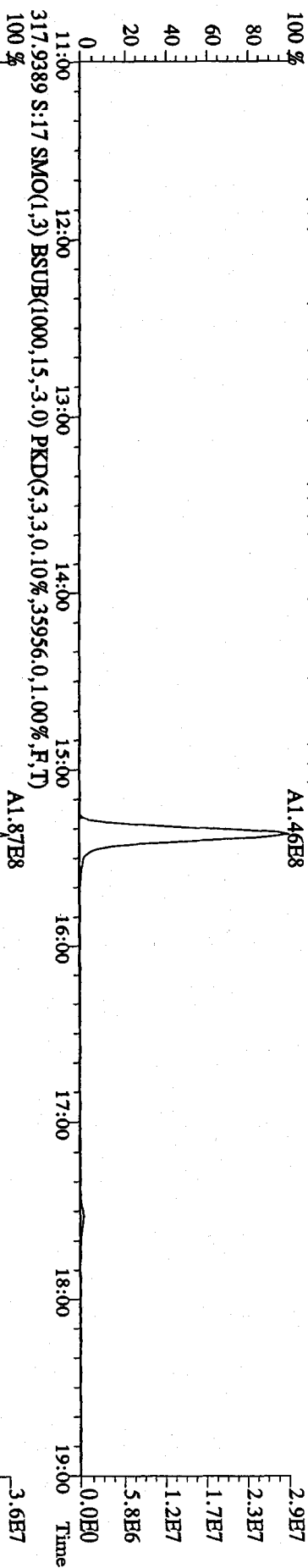
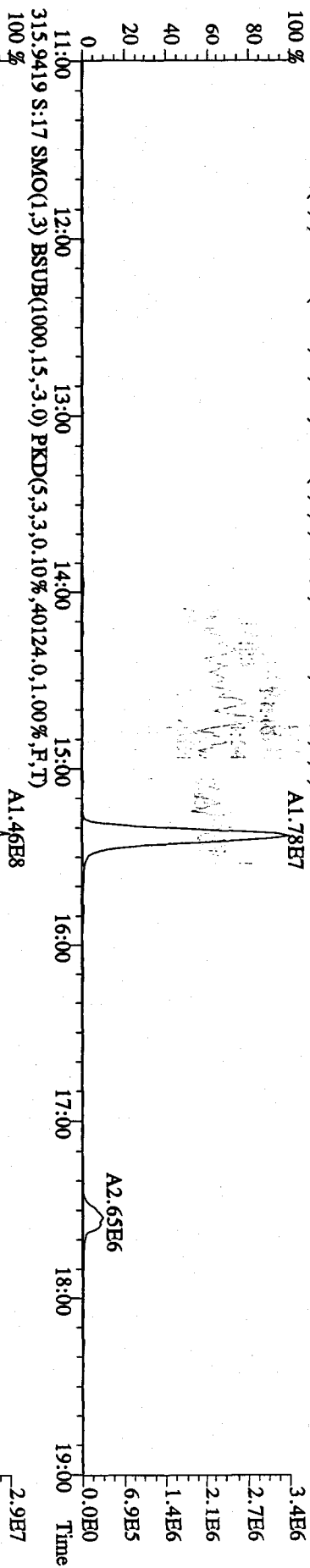
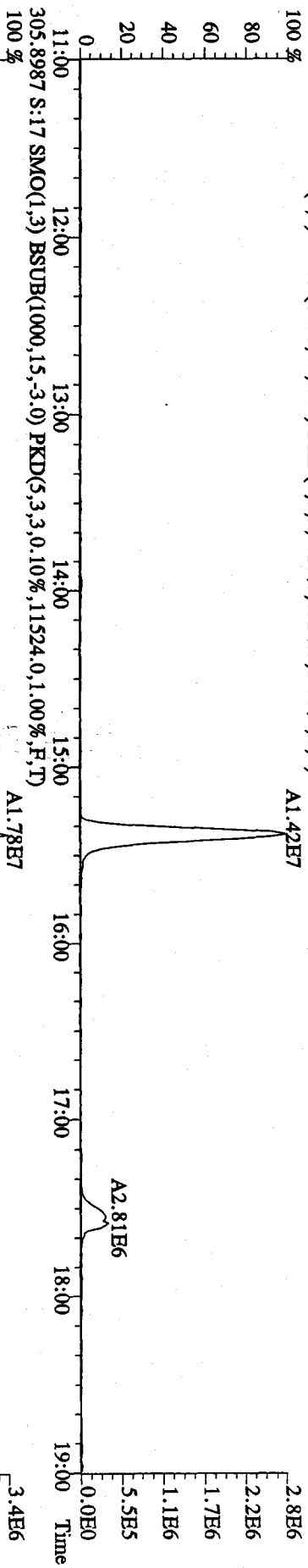
File:051A105D2 #1-1242 Acq: 5-JAN-2010 13:18:01 GC EI+ Voltage SIR 70SE
 Sample#6 Text:SB0105 :Solvent Blank C-14 Exp:DB225
 327.8840 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17080.0,1.00%,F,T)



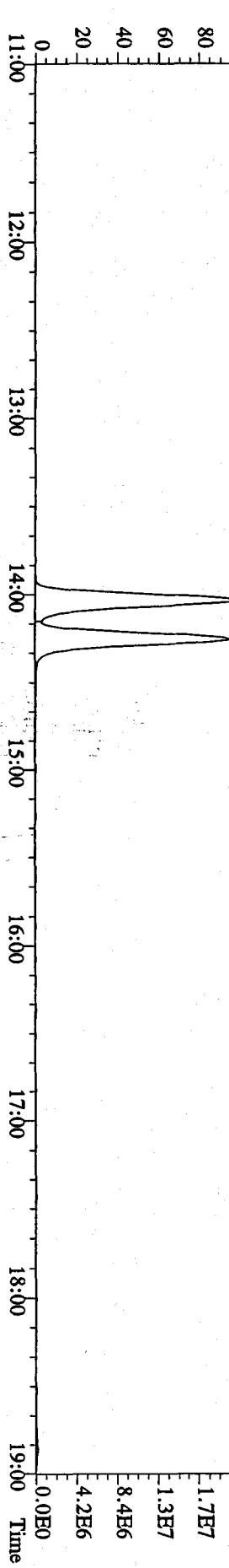
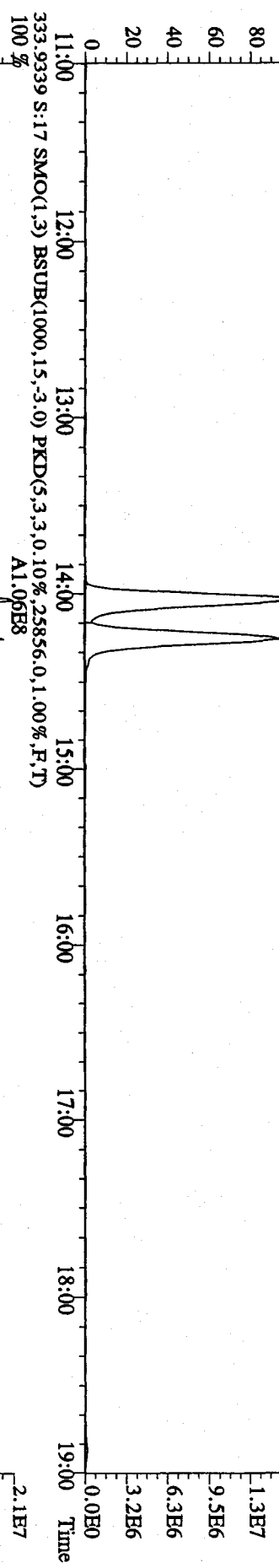
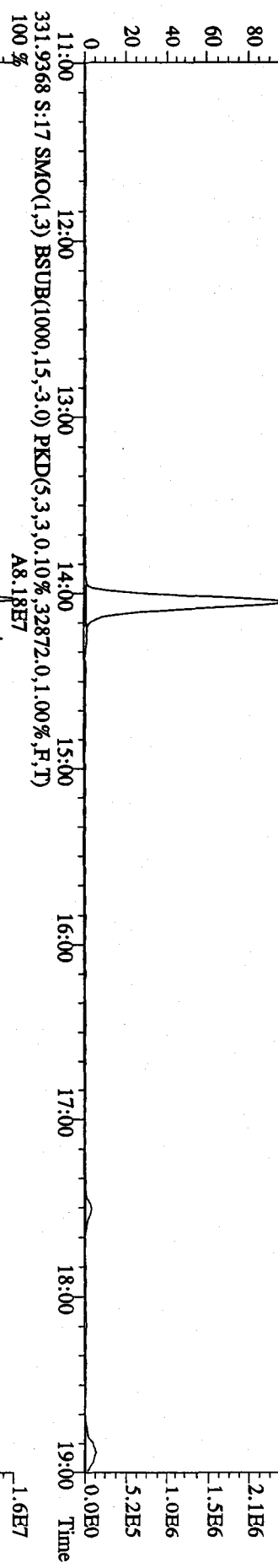
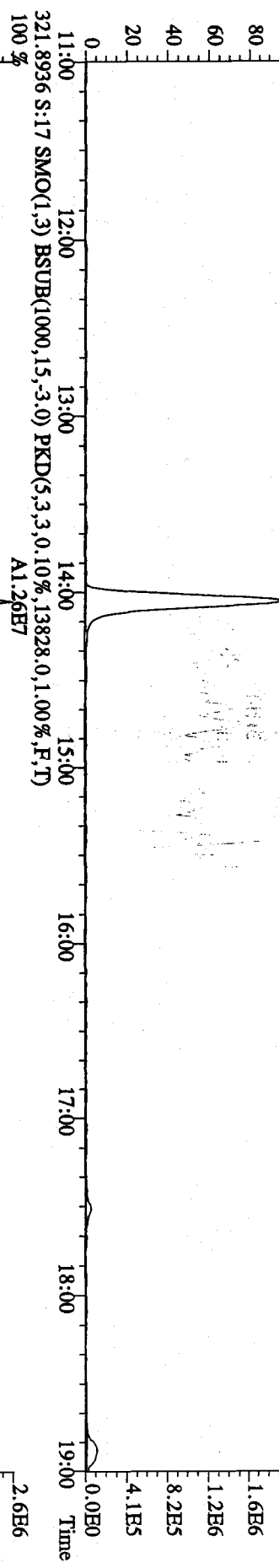
File:051A105D2 #1-1242 Acq: 5-JAN-2010 13:18:01 GC EI+ Voltage SIR 70SE
 Sample#6 Text:SB0105 .Solvent Blank C-14 Exp:DB225
 375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,100.00%,8944.0,1.00%,F,T)



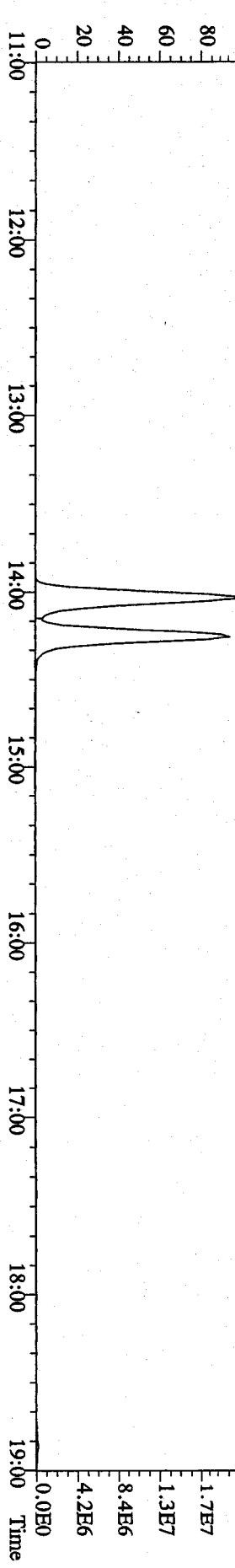
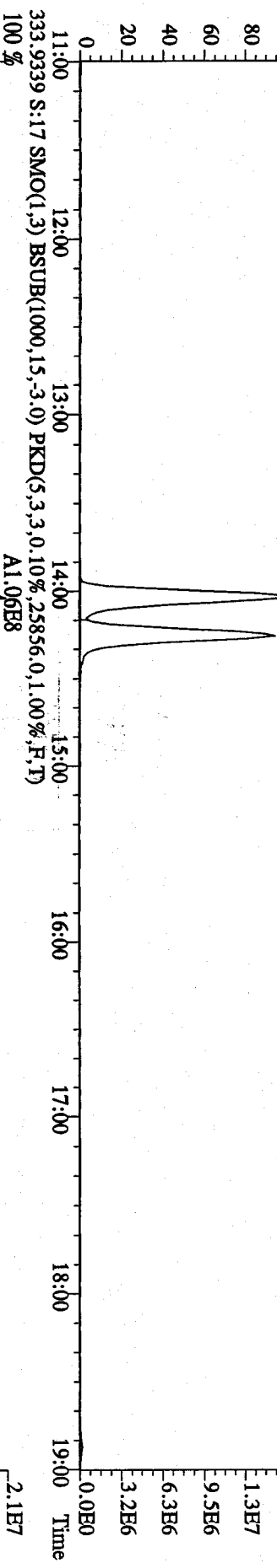
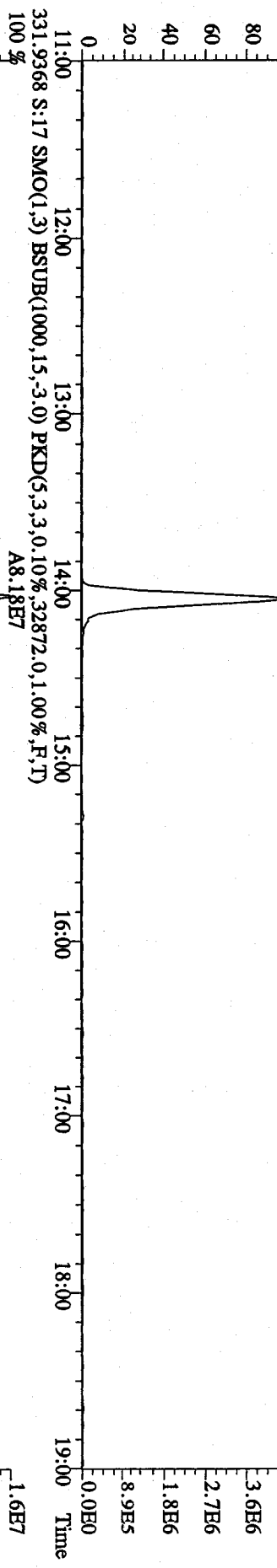
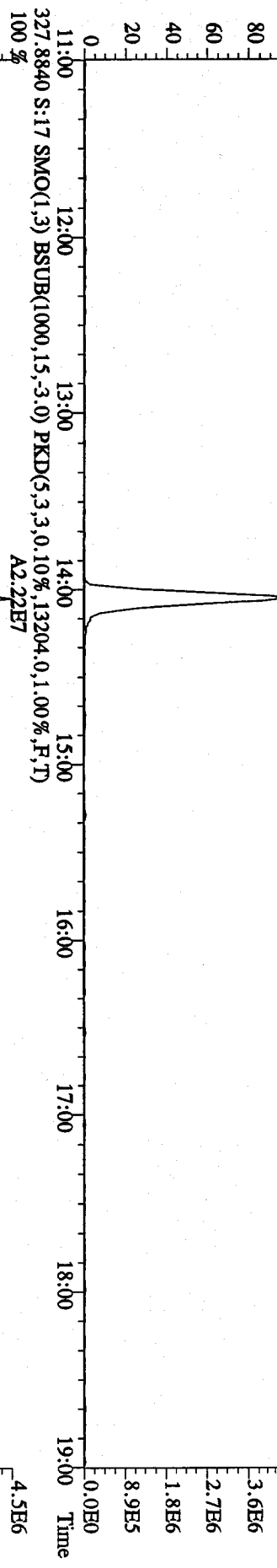
File:051A105D2 #1-1242 Acq: 5-JAN-2010 20:05:23 GC BI+ Voltage SIR 70SE
 Sample#17 Text:ST0105B :CS3 09DXN425 Exp:DB225
 303.9016 S:17 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8924.0,1.00%,F,T)
 100%



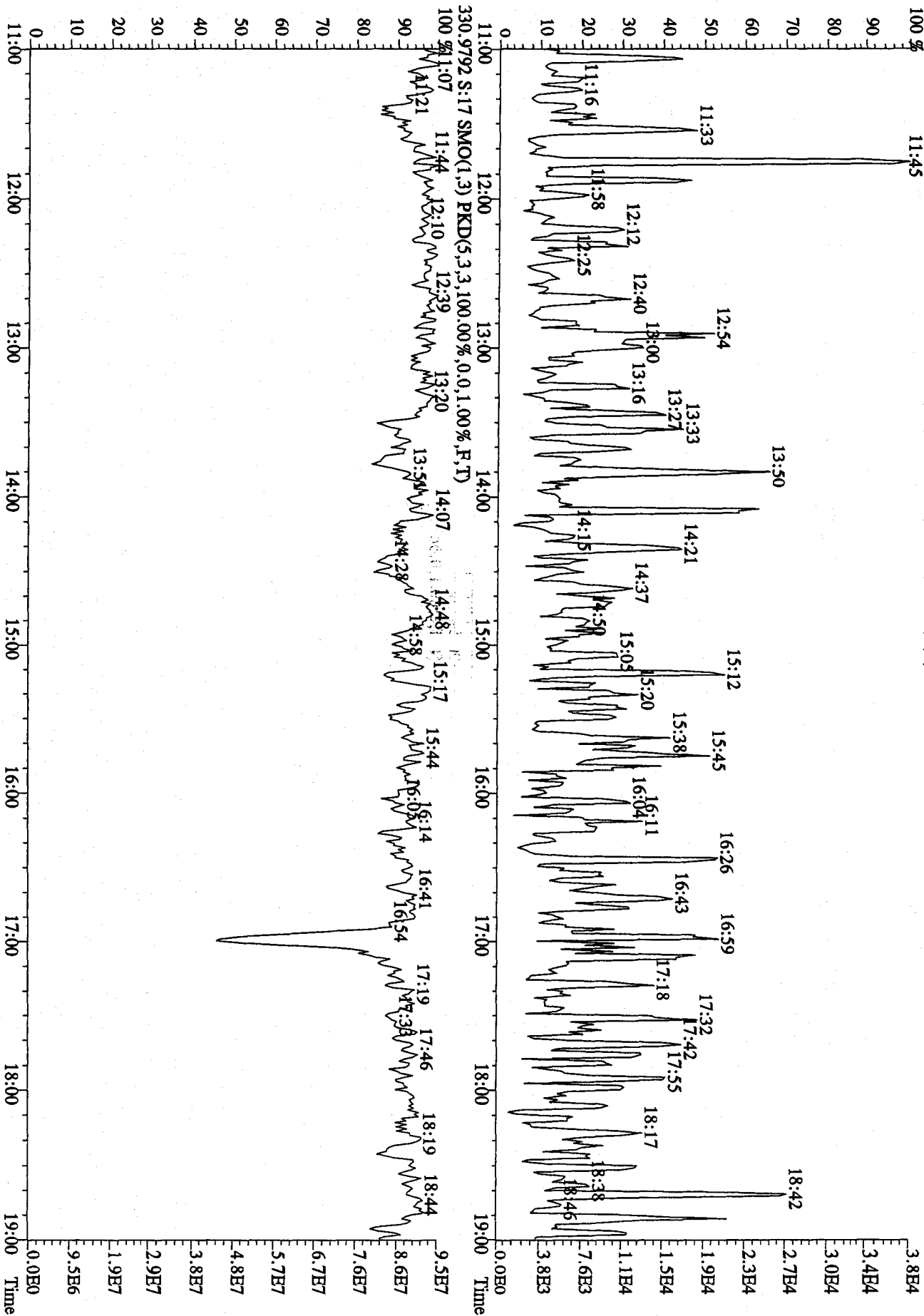
File:051A105D2 #1-1242 Acq: 5-JAN-2010 20:05:23 GC EI+ Voltage SIR 70SE
 Sample#17 Text:ST0105B :CS3 09DXN425 Exp:DB925
 319.8965 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9372.0,1.00%,F,T)
 100% A1.03E7



File:051A105D2 #1-1242 Acq: 5-JAN-2010 20:05:23 GC EI+ Voltage SIR 70SE
 Sample#17 Text:ST0105B :CSS 09DXN425 Exp:DB225
 327.8840 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,13204.0,1.00%,F,T)
 100% A2.22E7



File: 051A105D2 #1-1242 Acq: 5-JAN-2010 20:05:23 GC EI+ Voltage SIR 70SE
 Sample#17 Text: ST0105B : CSS 09DXN425 Exp: DB225
 375.8364 S:17 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,100.00%,6820,0,1.00%,F,T)



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Initial Calibration Checklist
Dioxin Methods

ICAL ID (8290, 1613, TO9, 23, 0023A, TETRAS) 123109105

Method ID 8290, 1613B, TO9, 23, 0023A

Date Scanned _____

Column ID DB5

Instrument ID 105

STD ID's ST1231(B, C, D, E, F)

STD Solution 09DXN(422, 423, 425, 426, 456)

GC Program OCDD

Multiplier Setting 270

Analyzed By A.M.

Date Analyzed 12/31/09, ~~1/1/10~~ 1/4/10

Prepared By M.G.

Date Prepared 1/4/10

Reviewed By JRB

Date Reviewed 1/4/10

Curve summary present?	✓	✓
Hardcopies of chromatograms for CS1-CS5 present?	✓	✓
Copy of log-file present?	✓	✓
Static resolution check present?	✓	✓
Target file RT's correct?	✓	✓
%RSD within method-specified limits?*	✓	✓
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	✓	✓

COMMENTS:

CS2 Retention Times: 13C-1,2,3,4-TCDD 18:40
13C-1,2,3,7,8,9-HxCDD 32:49

*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: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

ST1231B : CS-1 09DXN422 ST1231C : CS-2 09DXN423 ST1231D : CS-3 09DXN425
 ST1231E : CS-4 09DXN426 ST1231F : CS-5 09DXN456

31DE09A1D531DE09A1D531DE09A1D531DE09A1D531DE09A1D531DE09A1D5
 S2 S3 S4 S5 S6
 Name Mean S. D. %RSD RRF1 RRF2 RRF3 RRF4 RRF5

13C-1,2,3,4-TCDD - - - - -
 13C-2,3,7,8-TCDF 1.566 0.079 5.03 % 1.52 1.48 1.64 1.53 1.66
 2,3,7,8-TCDF 0.860 0.090 10.4 % 0.77 0.77 0.87 0.91 0.98
 Total TCDF 0.860 0.090 10.4 % 0.77 0.77 0.87 0.91 0.98

13C-2,3,7,8-TCDD 0.993 0.079 7.91 % 0.93 0.93 1.01 0.97 1.12
 2,3,7,8-TCDD 0.934 0.120 12.9 % 0.86 0.77 0.95 1.01 1.07
 Total TCDD 0.934 0.120 12.9 % 0.86 0.77 0.95 1.01 1.07

37C1-2,3,7,8-TCDD 2.218 0.347 15.7 % 2.02 1.82 2.18 2.33 2.74
 13C-1,2,3,7,8-PeCDF 1.073 0.114 10.6 % 1.00 0.98 1.09 1.03 1.26
 1,2,3,7,8-PeCDF 1.000 0.119 11.9 % 0.85 0.90 1.04 1.10 1.11
 2,3,4,7,8-PeCDF 0.939 0.122 13.0 % 0.79 0.84 0.97 1.05 1.05
 Total F2 PeCDF 0.969 0.120 12.4 % 0.82 0.87 1.01 1.08 1.08
 Total F1 PeCDF 0.969 0.120 12.4 % 0.82 0.87 1.01 1.08 1.08

13C-1,2,3,7,8-PeCDD 0.666 0.081 12.1 % 0.61 0.59 0.67 0.67 0.80
 1,2,3,7,8-PeCDD 0.929 0.127 13.7 % 0.79 0.81 0.94 1.04 1.06
 Total PeCDD 0.929 0.127 13.7 % 0.79 0.81 0.94 1.04 1.06

13C-1,2,3,7,8,9-HxCDD - - - - -
 13C-1,2,3,4,7,8-HxCDF 0.893 0.084 9.37 % 0.98 0.88 0.90 0.76 0.94
 1,2,3,4,7,8-HxCDF 1.199 0.171 14.2 % 0.96 1.08 1.31 1.33 1.32
 1,2,3,6,7,8-HxCDF 1.371 0.160 11.7 % 1.12 1.30 1.48 1.51 1.45
 2,3,4,6,7,8-HxCDF 1.242 0.152 12.3 % 1.02 1.15 1.32 1.36 1.36
 1,2,3,7,8,9-HxCDF 1.326 0.218 16.4 % 1.02 1.19 1.44 1.57 1.42
 Total HxCDF 1.285 0.174 13.5 % 1.03 1.18 1.39 1.44 1.38

13C-1,2,3,6,7,8-HxCDD 0.732 0.084 11.4 % 0.83 0.69 0.75 0.61 0.78
 1,2,3,4,7,8-HxCDD 0.970 0.170 17.5 % 0.74 0.88 0.98 1.15 1.11

1,2,3,6,7,8-HxCDD	1.058	0.118	11.2 %	0.88	1.01	1.09	1.16	1.15
1,2,3,7,8,9-HxCDD	1.275	0.243	19.0 %	0.92	1.19	1.33	1.57	1.37
Total HxCDD	1.101	0.175	15.9 %	0.84	1.02	1.14	1.30	1.21
13C-1,2,3,4,6,7,8-HpCDF	0.860	0.055	6.38 %	0.92	0.85	0.88	0.78	0.88
1,2,3,4,6,7,8-HpCDF	1.287	0.138	10.8 %	1.10	1.18	1.34	1.41	1.40
1,2,3,4,7,8,9-HpCDF	1.135	0.151	13.3 %	0.95	1.00	1.19	1.27	1.27
Total HpCDF	1.211	0.145	11.9 %	1.02	1.09	1.27	1.34	1.33
13C-1,2,3,4,6,7,8-HpCDD	0.752	0.046	6.08 %	0.80	0.74	0.75	0.68	0.79
1,2,3,4,6,7,8-HpCDD	0.998	0.122	12.2 %	0.85	0.88	1.05	1.10	1.10
Total HpCDD	0.998	0.122	12.2 %	0.85	0.88	1.05	1.10	1.10
13C-OCDD	0.564	0.039	6.86 %	0.58	0.54	0.57	0.51	0.61
OCDF	1.437	0.202	14.1 %	1.16	1.30	1.52	1.63	1.59
OCDD	1.110	0.128	11.5 %	0.96	0.98	1.16	1.23	1.22

Run #1 Filename 31DE09A1D5 S: 2 I: 1
 Acquired: 1-JAN-10 00:09:07 Processed: 4-JAN-10 07:30:47
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

Comments:

Sample text: ST1231B :CS-1 09DXN422

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	326815000	0.81 y	18:42	-	100.00	n
13C-2,3,7,8-TCDF	495192000	0.78 y	18:09	1.52	100.00	n
2,3,7,8-TCDF	1909491	0.78 y	18:09	0.77	0.50	n
Total TCDF	-	- n	-	0.77	0.50	n
13C-2,3,7,8-TCDD	305230000	0.80 y	18:53	0.93	100.00	n
2,3,7,8-TCDD	1317770	0.78 y	18:56	0.86	0.50	n
Total TCDD	-	- n	-	0.86	0.50	n
37Cl-2,3,7,8-TCDD	3295720	1.00 y	18:56	2.02	0.50	n
13C-1,2,3,7,8-PeCDF	327775000	1.60 y	23:32	1.00	100.00	n
1,2,3,7,8-PeCDF	6958190	1.59 y	23:34	0.85	2.50	n
2,3,4,7,8-PeCDF	6434690	1.62 y	24:58	0.79	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	198162800	1.64 y	25:44	0.61	100.00	n
1,2,3,7,8-PeCDD	3904960	1.46 y	25:45	0.79	2.50	n
Total PeCDD	-	- n	-	0.79	2.50	n
13C-1,2,3,7,8,9-HxCDD	246455000	1.30 y	32:51	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	242322300	0.50 y	31:26	0.98	100.00	n
1,2,3,4,7,8-HxCDF	5809990	1.20 y	31:27	0.96	2.50	n
1,2,3,6,7,8-HxCDF	6810920	1.31 y	31:36	1.12	2.50	n
2,3,4,6,7,8-HxCDF	6178250	1.26 y	32:17	1.02	2.50	n
1,2,3,7,8,9-HxCDF	6177790	1.28 y	33:03	1.02	2.50	n
Total HxCDF	-	- n	-	1.03	10.00	n
13C-1,2,3,6,7,8-HxCDD	204409500	1.28 y	32:32	0.83	100.00	n
1,2,3,4,7,8-HxCDD	3765050	1.19 y	32:27	0.74	2.50	n
1,2,3,6,7,8-HxCDD	4473360	1.33 y	32:33	0.88	2.50	n
1,2,3,7,8,9-HxCDD	4685460	1.26 y	32:52	0.92	2.50	n
Total HxCDD	-	- n	-	0.84	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	227457800	0.43 y	34:35	0.92	100.00	n
1,2,3,4,6,7,8-HpCDF	6254400	1.07 y	34:35	1.10	2.50	n
1,2,3,4,7,8,9-HpCDF	5396380	1.04 y	35:53	0.95	2.50	n
Total HpCDF	-	- n	-	1.02	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	196980400	1.10 y	35:31	0.80	100.00	n
1,2,3,4,6,7,8-HpCDD	4184800	0.97 y	35:31	0.85	2.50	n
Total HpCDD	-	- n	-	0.85	2.50	n
13C-OCDD	287999000	0.90 y	38:18	0.58	200.00	n
OCDF	8341240	0.89 y	38:25	1.16	5.00	n

OCDD 6946490 0.88 y 38:19 0.96 5.00 n

Run #2 Filename 31DE09A1D5 S: 3 I: 1
 Acquired: 1-JAN-10 00:50:55 Processed: 4-JAN-10 07:30:48
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

Comments:

Sample text: ST1231C :CS-2 09DXN423

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	338633000	0.80 y	18:40	-	100.00	n
13C-2,3,7,8-TCDF	501872000	0.80 y	18:07	1.48	100.00	n
2,3,7,8-TCDF	7721520	0.76 y	18:08	0.77	2.00	n
Total TCDF	-	- n	-	0.77	2.00	n
13C-2,3,7,8-TCDD	314535000	0.79 y	18:52	0.93	100.00	n
2,3,7,8-TCDD	4841990	0.72 y	18:53	0.77	2.00	n
Total TCDD	-	- n	-	0.77	2.00	n
37Cl-2,3,7,8-TCDD	12349320	1.00 y	18:53	1.82	2.00	n
13C-1,2,3,7,8-PeCDF	332660000	1.64 y	23:31	0.98	100.00	n
1,2,3,7,8-PeCDF	29926900	1.66 y	23:32	0.90	10.00	n
2,3,4,7,8-PeCDF	27858600	1.64 y	24:57	0.84	10.00	n
Total F2 PeCDF	-	- n	-	0.87	20.00	n
Total F1 PeCDF	-	- n	-	0.87	20.00	n
13C-1,2,3,7,8-PeCDD	200944100	1.64 y	25:42	0.59	100.00	n
1,2,3,7,8-PeCDD	16258920	1.63 y	25:44	0.81	10.00	n
Total PeCDD	-	- n	-	0.81	10.00	n
13C-1,2,3,7,8,9-HxCDD	271672000	1.29 y	32:50	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	238064400	0.51 y	31:25	0.88	100.00	n
1,2,3,4,7,8-HxCDF	25643500	1.28 y	31:26	1.08	10.00	n
1,2,3,6,7,8-HxCDF	30902300	1.30 y	31:35	1.30	10.00	n
2,3,4,6,7,8-HxCDF	27314900	1.31 y	32:16	1.15	10.00	n
1,2,3,7,8,9-HxCDF	28395900	1.26 y	33:02	1.19	10.00	n
Total HxCDF	-	- n	-	1.18	40.00	n
13C-1,2,3,6,7,8-HxCDD	187073300	1.31 y	32:31	0.69	100.00	n
1,2,3,4,7,8-HxCDD	16376990	1.27 y	32:26	0.88	10.00	y
1,2,3,6,7,8-HxCDD	18917800	1.35 y	32:32	1.01	10.00	y
1,2,3,7,8,9-HxCDD	22185210	1.30 y	32:51	1.19	10.00	n
Total HxCDD	-	- n	-	1.02	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	229668600	0.43 y	34:34	0.85	100.00	n
1,2,3,4,6,7,8-HpCDF	27134500	1.01 y	34:35	1.18	10.00	n
1,2,3,4,7,8,9-HpCDF	22973600	1.06 y	35:53	1.00	10.00	n
Total HpCDF	-	- n	-	1.09	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	200876100	1.09 y	35:30	0.74	100.00	n
1,2,3,4,6,7,8-HpCDD	17730590	1.07 y	35:31	0.88	10.00	n
Total HpCDD	-	- n	-	0.88	10.00	n
13C-OCDD	295682000	0.89 y	38:18	0.54	200.00	n
OCDF	38310100	0.87 y	38:25	1.30	20.00	n

OCDD 28999100 0.89 y 38:19 0.98 20.00 n

10:10
10:57

10:10 20:00 0.11
10:14 15:14

Run #2 Filename 31DE09A1D5 S: 3 I: 1
 Acquired: 1-JAN-10 00:50:55 Processed: 4-JAN-10 07:30:48
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

Comments:

Sample text: ST1231C :CS-2 09DXN423

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	338633000	0.80 y	18:40	-	100.00	n
13C-2,3,7,8-TCDF	501872000	0.80 y	18:07	1.48	100.00	n
2,3,7,8-TCDF	7721520	0.76 y	18:08	0.77	2.00	n
Total TCDF	-	- n	-	0.77	2.00	n
13C-2,3,7,8-TCDD	314535000	0.79 y	18:52	0.93	100.00	n
2,3,7,8-TCDD	4841990	0.72 y	18:53	0.77	2.00	n
Total TCDD	-	- n	-	0.77	2.00	n
37Cl-2,3,7,8-TCDD	12349320	1.00 y	18:53	1.82	2.00	n
13C-1,2,3,7,8-PeCDF	332660000	1.64 y	23:31	0.98	100.00	n
1,2,3,7,8-PeCDF	29926900	1.66 y	23:32	0.90	10.00	n
2,3,4,7,8-PeCDF	27858600	1.64 y	24:57	0.84	10.00	n
Total F2 PeCDF	-	- n	-	0.87	20.00	n
Total F1 PeCDF	-	- n	-	0.87	20.00	n
13C-1,2,3,7,8-PeCDD	200944100	1.64 y	25:42	0.59	100.00	n
1,2,3,7,8-PeCDD	16258920	1.63 y	25:44	0.81	10.00	n
Total PeCDD	-	- n	-	0.81	10.00	n
13C-1,2,3,7,8,9-HxCDD	271672000	1.29 y	32:50	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	238064400	0.51 y	31:25	0.88	100.00	n
1,2,3,4,7,8-HxCDF	25643500	1.28 y	31:26	1.08	10.00	n
1,2,3,6,7,8-HxCDF	30902300	1.30 y	31:35	1.30	10.00	n
2,3,4,6,7,8-HxCDF	27314900	1.31 y	32:16	1.15	10.00	n
1,2,3,7,8,9-HxCDF	28395900	1.26 y	33:02	1.19	10.00	n
Total HxCDF	-	- n	-	1.18	40.00	n
13C-1,2,3,6,7,8-HxCDD	187073300	1.31 y	32:31	0.69	100.00	n
1,2,3,4,7,8-HxCDD	14931616	1.45 n	32:26	0.80	10.00	n
1,2,3,6,7,8-HxCDD	18826110	1.21 y	32:32	1.01	10.00	n
1,2,3,7,8,9-HxCDD	22185220	1.30 y	32:51	1.19	10.00	n
Total HxCDD	-	- n	-	1.00	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	229668600	0.43 y	34:34	0.85	100.00	n
1,2,3,4,6,7,8-HpCDF	27134500	1.01 y	34:35	1.18	10.00	n
1,2,3,4,7,8,9-HpCDF	22973600	1.06 y	35:53	1.00	10.00	n
Total HpCDF	-	- n	-	1.09	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	200876100	1.09 y	35:30	0.74	100.00	n
1,2,3,4,6,7,8-HpCDD	17730590	1.07 y	35:31	0.88	10.00	n
Total HpCDD	-	- n	-	0.88	10.00	n
13C-OCDD	295682000	0.89 y	38:18	0.54	200.00	n
OCDF	38310100	0.87 y	38:25	1.30	20.00	n
OCDD	28999100	0.89 y	38:19	0.98	20.00	n

Run #3 Filename 31DE09A1D5 S: 4 I: 1
 Acquired: 1-JAN-10 01:32:44 Processed: 4-JAN-10 07:30:49
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

Comments:

Sample text: ST1231D :CS-3 09DXN425

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	307910000	0.80 y	18:40	-	100.00	n
13C-2,3,7,8-TCDF	506106000	0.79 y	18:06	1.64	100.00	n
2,3,7,8-TCDF	44200100	0.76 y	18:07	0.87	10.00	n
Total TCDF	-	- n	-	0.87	10.00	n
13C-2,3,7,8-TCDD	310374000	0.80 y	18:52	1.01	100.00	n
2,3,7,8-TCDD	29546200	0.79 y	18:53	0.95	10.00	n
Total TCDD	-	- n	-	0.95	10.00	n
37Cl-2,3,7,8-TCDD	67170000	1.00 y	18:53	2.18	10.00	n
13C-1,2,3,7,8-PeCDF	335656000	1.65 y	23:30	1.09	100.00	n
1,2,3,7,8-PeCDF	174948900	1.63 y	23:32	1.04	50.00	n
2,3,4,7,8-PeCDF	162654400	1.64 y	24:57	0.97	50.00	n
Total F2 PeCDF	-	- n	-	1.01	100.00	n
Total F1 PeCDF	-	- n	-	1.01	100.00	n
13C-1,2,3,7,8-PeCDD	205985000	1.67 y	25:42	0.67	100.00	n
1,2,3,7,8-PeCDD	97299200	1.65 y	25:43	0.94	50.00	n
Total PeCDD	-	- n	-	0.94	50.00	n
13C-1,2,3,7,8,9-HxCDD	264028000	1.28 y	32:49	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	237779900	0.51 y	31:25	0.90	100.00	n
1,2,3,4,7,8-HxCDF	155946700	1.25 y	31:26	1.31	50.00	n
1,2,3,6,7,8-HxCDF	175881700	1.25 y	31:35	1.48	50.00	n
2,3,4,6,7,8-HxCDF	157470900	1.29 y	32:16	1.32	50.00	n
1,2,3,7,8,9-HxCDF	170784100	1.26 y	33:02	1.44	50.00	n
Total HxCDF	-	- n	-	1.39	200.00	n
13C-1,2,3,6,7,8-HxCDD	199181900	1.29 y	32:31	0.75	100.00	n
1,2,3,4,7,8-HxCDD	97513000	1.26 y	32:26	0.98	50.00	n
1,2,3,6,7,8-HxCDD	109018400	1.29 y	32:32	1.09	50.00	n
1,2,3,7,8,9-HxCDD	132727200	1.29 y	32:50	1.33	50.00	n
Total HxCDD	-	- n	-	1.14	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	232544000	0.43 y	34:34	0.88	100.00	n
1,2,3,4,6,7,8-HpCDF	156361300	1.03 y	34:35	1.34	50.00	n
1,2,3,4,7,8,9-HpCDF	138612200	1.05 y	35:52	1.19	50.00	n
Total HpCDF	-	- n	-	1.27	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	199167200	1.09 y	35:30	0.75	100.00	n
1,2,3,4,6,7,8-HpCDD	105004000	1.05 y	35:31	1.05	50.00	n
Total HpCDD	-	- n	-	1.05	50.00	n
13C-OCDD	301292000	0.91 y	38:17	0.57	200.00	n
OCDF	228515000	0.90 y	38:25	1.52	100.00	n
OCDD	174447000	0.89 y	38:18	1.16	100.00	n

Run #4 Filename 31DE09A1D5 S: 5 I: 1
 Acquired: 1-JAN-10 02:14:32 Processed: 4-JAN-10 07:30:49
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

Comments:

Sample text: ST1231E :CS-4 09DXN426

Name	Resp	RA	RT	RRF	Resp	Mod?
13C-1,2,3,4-TCDD	360177000	0.81 y	18:40	-	100.00	n
13C-2,3,7,8-TCDF	552269000	0.80 y	18:06	1.53	100.00	n
2,3,7,8-TCDF	200867500	0.77 y	18:07	0.91	40.00	n
Total TCDF	-	- n	-	0.91	40.00	n
13C-2,3,7,8-TCDD	350941000	0.80 y	18:52	0.97	100.00	n
2,3,7,8-TCDD	141705800	0.77 y	18:53	1.01	40.00	n
Total TCDD	-	- n	-	1.01	40.00	n
37Cl-2,3,7,8-TCDD	335352000	1.00 y	18:53	2.33	40.00	n
13C-1,2,3,7,8-PeCDF	369215000	1.63 y	23:31	1.03	100.00	n
1,2,3,7,8-PeCDF	814732000	1.58 y	23:32	1.10	200.00	n
2,3,4,7,8-PeCDF	775079000	1.57 y	24:57	1.05	200.00	n
Total F2 PeCDF	-	- n	-	1.08	400.00	n
Total F1 PeCDF	-	- n	-	1.08	400.00	n
13C-1,2,3,7,8-PeCDD	239834200	1.64 y	25:42	0.67	100.00	n
1,2,3,7,8-PeCDD	500625000	1.60 y	25:44	1.04	200.00	n
Total PeCDD	-	- n	25:40	1.04	200.00	n
13C-1,2,3,7,8,9-HxCDD	359009000	1.24 y	32:50	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	273599700	0.51 y	31:25	0.76	100.00	n
1,2,3,4,7,8-HxCDF	727822000	1.26 y	31:26	1.33	200.00	n
1,2,3,6,7,8-HxCDF	824043000	1.27 y	31:35	1.51	200.00	n
2,3,4,6,7,8-HxCDF	744600000	1.26 y	32:16	1.36	200.00	n
1,2,3,7,8,9-HxCDF	857140000	1.26 y	33:02	1.57	200.00	n
Total HxCDF	-	- n	-	1.44	800.00	n
13C-1,2,3,6,7,8-HxCDD	219899700	1.29 y	32:31	0.61	100.00	n
1,2,3,4,7,8-HxCDD	507310000	1.25 y	32:27	1.15	200.00	n
1,2,3,6,7,8-HxCDD	512249000	1.28 y	32:32	1.16	200.00	n
1,2,3,7,8,9-HxCDD	690425000	1.27 y	32:51	1.57	200.00	n
Total HxCDD	-	- n	-	1.30	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	278355600	0.44 y	34:34	0.78	100.00	n
1,2,3,4,6,7,8-HpCDF	784068000	1.04 y	34:35	1.41	200.00	n
1,2,3,4,7,8,9-HpCDF	705553000	1.04 y	35:53	1.27	200.00	n
Total HpCDF	-	- n	-	1.34	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	244993000	1.09 y	35:31	0.68	100.00	n
1,2,3,4,6,7,8-HpCDD	539498000	1.05 y	35:31	1.10	200.00	n
Total HpCDD	-	- n	-	1.10	200.00	n
13C-OCDD	366780000	0.90 y	38:18	0.51	200.00	n
OCDF	1195334000	0.91 y	38:25	1.63	400.00	n
OCDD	901352000	0.90 y	38:18	1.23	400.00	n

Run #5 Filename 31DE09A1D5 S: 6 I: 1
 Acquired: 1-JAN-10 02:56:20 Processed: 4-JAN-10 07:30:50
 Run: 15SE098D2 Analyte: 8290 Cal: 82901231091D5

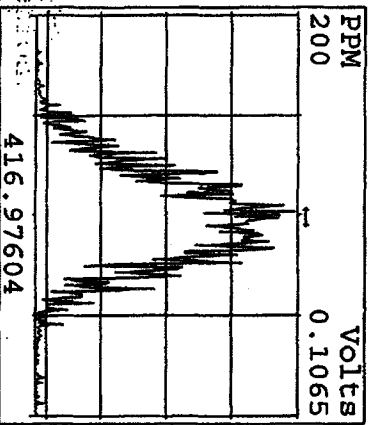
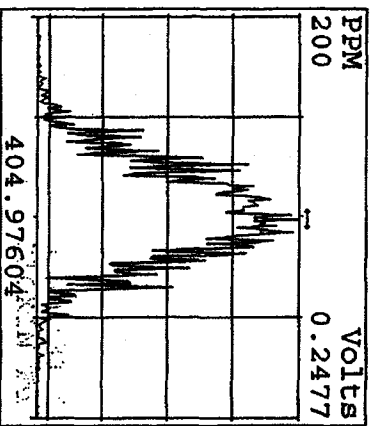
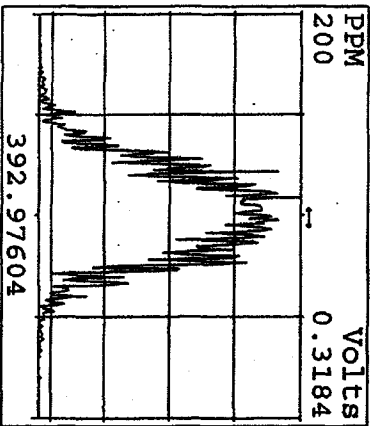
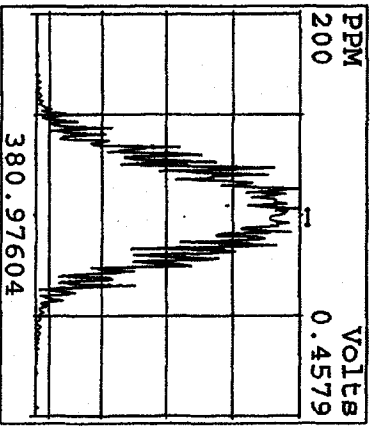
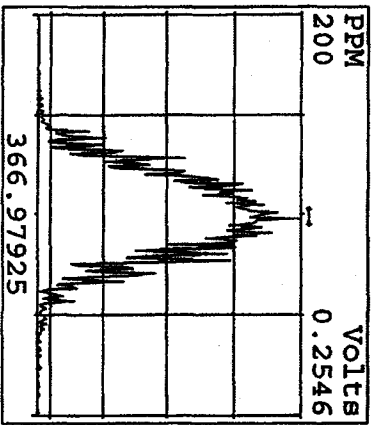
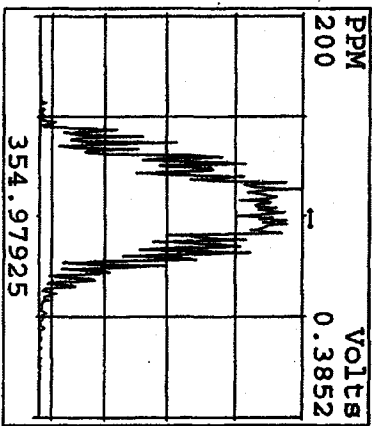
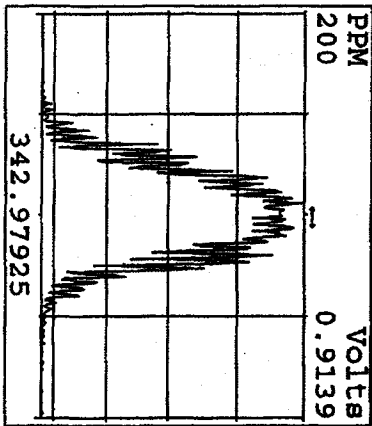
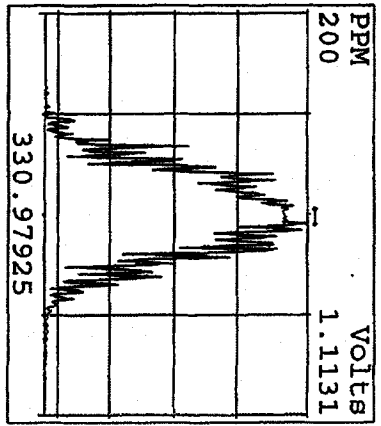
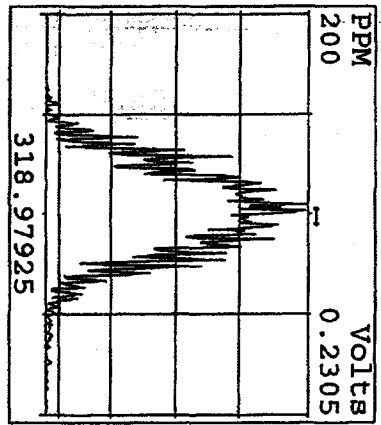
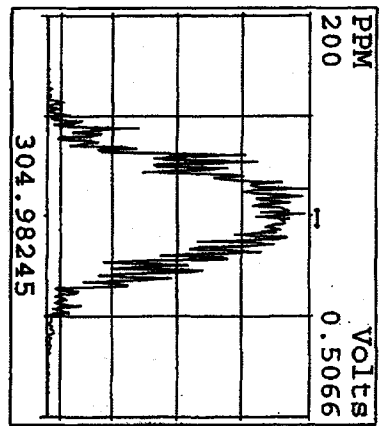
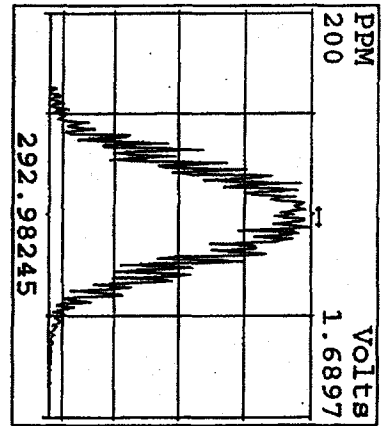
Comments:

Sample text: ST1231F :CS-5 09DXN456

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	223948500	0.79 y	18:39	-	100.00	n
13C-2,3,7,8-TCDF	370833000	0.77 y	18:05	1.66	100.00	n
2,3,7,8-TCDF	724048000	0.76 y	18:06	0.98	200.00	n
Total TCDF	-	- n	-	0.98	200.00	n
13C-2,3,7,8-TCDD	251145000	0.80 y	18:51	1.12	100.00	n
2,3,7,8-TCDD	539625000	0.78 y	18:52	1.07	200.00	n
Total TCDD	-	- n	-	1.07	200.00	n
37Cl-2,3,7,8-TCDD	1227666000	1.00 y	18:52	2.74	200.00	n
13C-1,2,3,7,8-PeCDF	283018000	1.63 y	23:30	1.26	100.00	n
1,2,3,7,8-PeCDF	3129820000	1.57 y	23:32	1.11	1000.00	n
2,3,4,7,8-PeCDF	2975790000	1.57 y	24:57	1.05	1000.00	n
Total F2 PeCDF	-	- n	-	1.08	2000.00	n
Total F1 PeCDF	-	- n	-	1.08	2000.00	n
13C-1,2,3,7,8-PeCDD	178526400	1.62 y	25:42	0.80	100.00	n
1,2,3,7,8-PeCDD	1892442000	1.58 y	25:44	1.06	1000.00	n
Total PeCDD	-	- n	-	1.06	1000.00	n
13C-1,2,3,7,8,9-HxCDD	230276000	1.29 y	32:50	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	216892500	0.51 y	31:25	0.94	100.00	n
1,2,3,4,7,8-HxCDF	2857220000	1.24 y	31:27	1.32	1000.00	n
1,2,3,6,7,8-HxCDF	3141570000	1.26 y	31:35	1.45	1000.00	n
2,3,4,6,7,8-HxCDF	2944900000	1.25 y	32:16	1.36	1000.00	n
1,2,3,7,8,9-HxCDF	3069220000	1.26 y	33:03	1.42	1000.00	n
Total HxCDF	-	- n	-	1.38	4000.00	n
13C-1,2,3,6,7,8-HxCDD	178583200	1.27 y	32:31	0.78	100.00	n
1,2,3,4,7,8-HxCDD	1973363000	1.25 y	32:27	1.11	1000.00	n
1,2,3,6,7,8-HxCDD	2046135000	1.28 y	32:32	1.15	1000.00	n
1,2,3,7,8,9-HxCDD	2448250000	1.27 y	32:51	1.37	1000.00	n
Total HxCDD	-	- n	-	1.21	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	201777500	0.44 y	34:34	0.88	100.00	n
1,2,3,4,6,7,8-HpCDF	2821880000	1.05 y	34:35	1.40	1000.00	n
1,2,3,4,7,8,9-HpCDF	2558690000	1.04 y	35:53	1.27	1000.00	n
Total HpCDF	-	- n	-	1.33	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	180867800	1.08 y	35:31	0.79	100.00	n
1,2,3,4,6,7,8-HpCDD	1991700000	1.05 y	35:32	1.10	1000.00	n
Total HpCDD	-	- n	-	1.10	1000.00	n
13C-OCDD	281979000	0.89 y	38:19	0.61	200.00	n
OCDF	4472470000	0.91 y	38:26	1.59	2000.00	n
OCDD	3427190000	0.90 y	38:20	1.22	2000.00	n

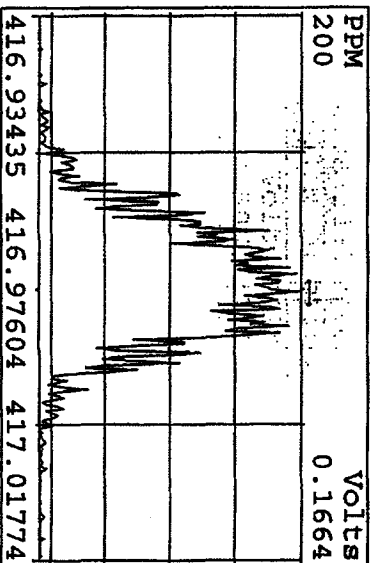
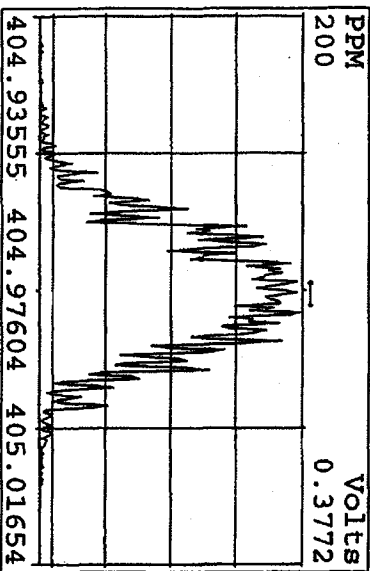
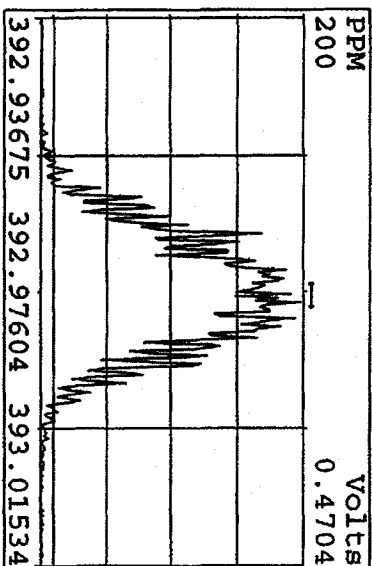
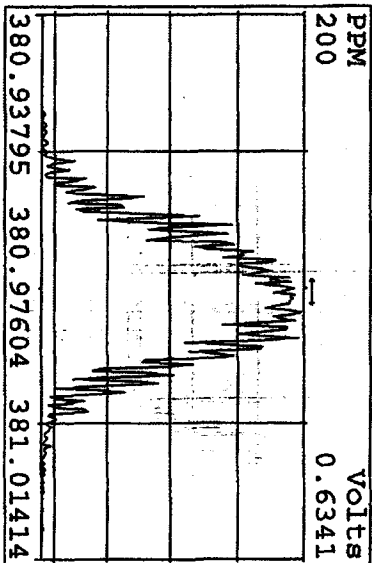
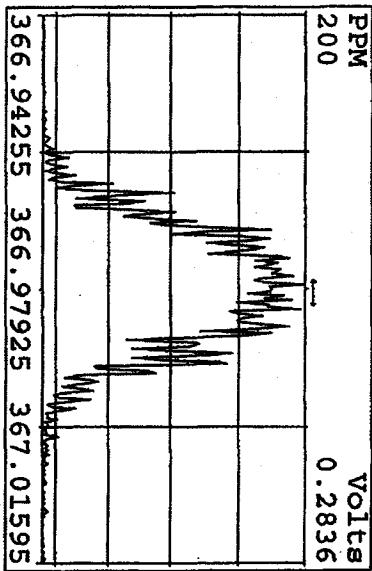
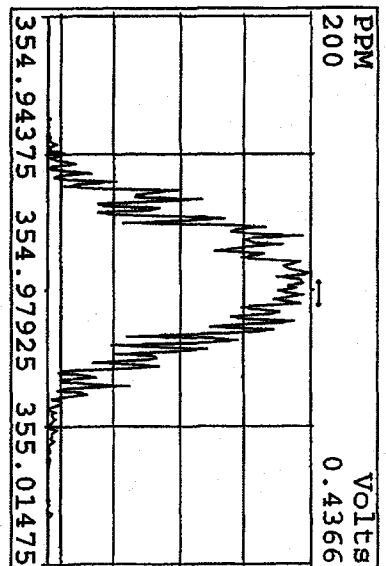
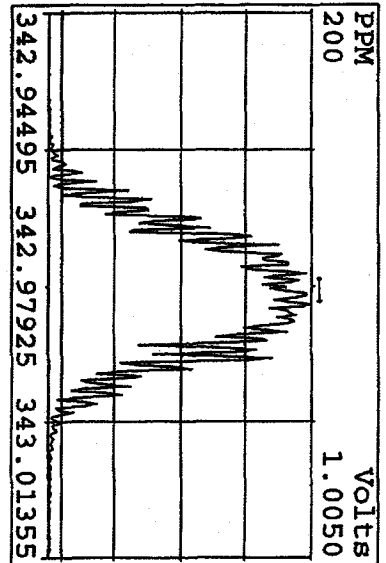
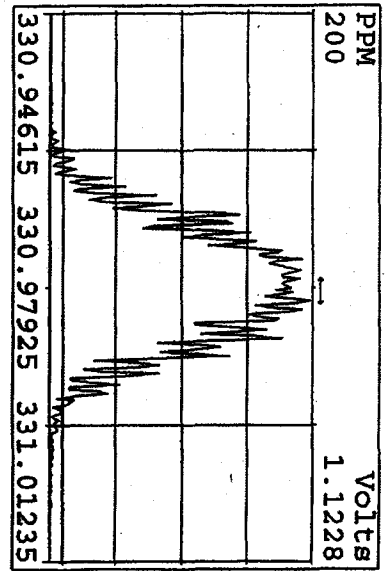
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
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31DE09A1D5	2	ST1231B	CS-1 09DXN422				1.000	
31DE09A1D5	3	ST1231C	CS-2 09DXN423				1.000	
31DE09A1D5	4	ST1231D	CS-3 09DXN425				1.000	
31DE09A1D5	5	ST1231E	CS-4 09DXN426				1.000	
31DE09A1D5	6	ST1231F	CS-5 09DXN456				1.000	
31DE09A1D5	7	SB1231C	Solvent Blank C-14				1.000	
31DE09A1D5	8	ST1231G	2nd Source 09DXN449	500	1613B/8290		1.000	
31DE09A1D5	9						1.000	
31DE09A1D5	10						1.000	
31DE09A1D5	11						1.000	
31DE09A1D5	12						1.000	
31DE09A1D5	13						1.000	
31DE09A1D5	14						1.000	
31DE09A1D5	15		AM 12-31-09				1.000	
31DE09A1D5	16						1.000	

Peak Locate Examination:31-DEC-2009:23:19 File:31DE09A1D5
Experiment:DIOXIN Function:1 Reference:PFK

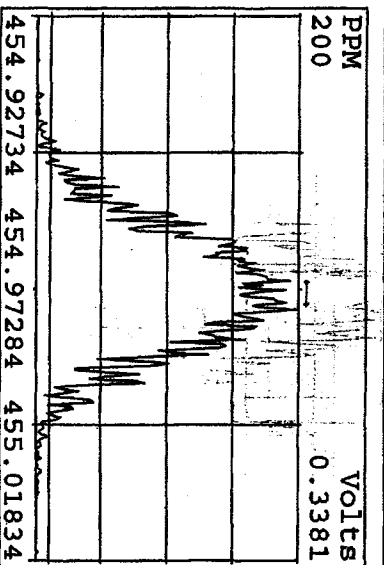
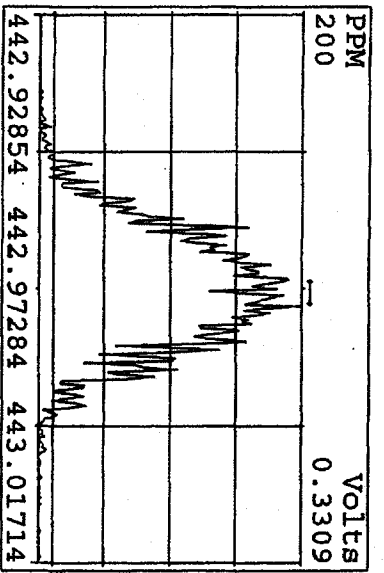
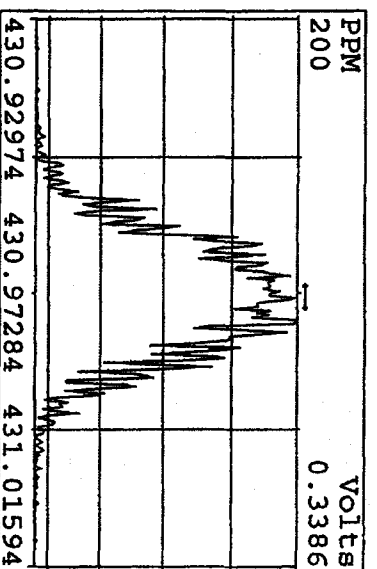
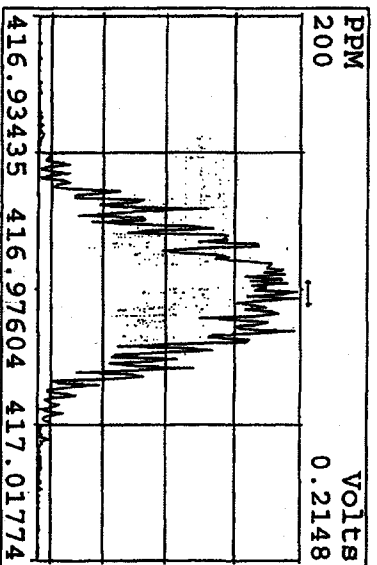
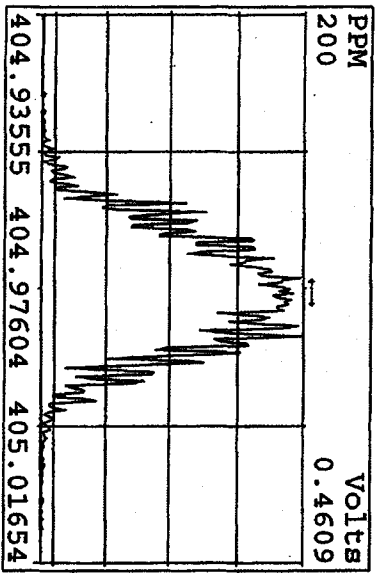
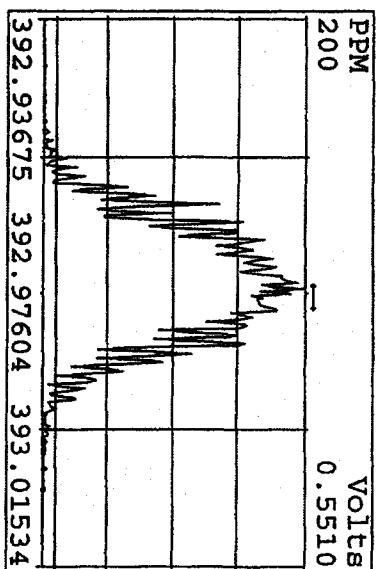
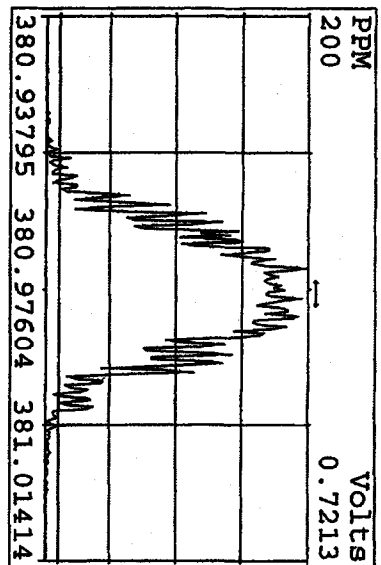
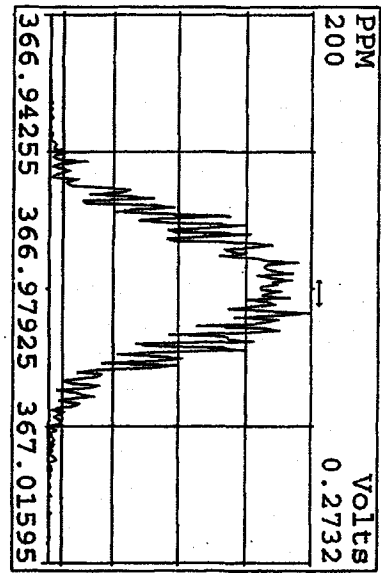


VOLTS PPM
0.5066 300

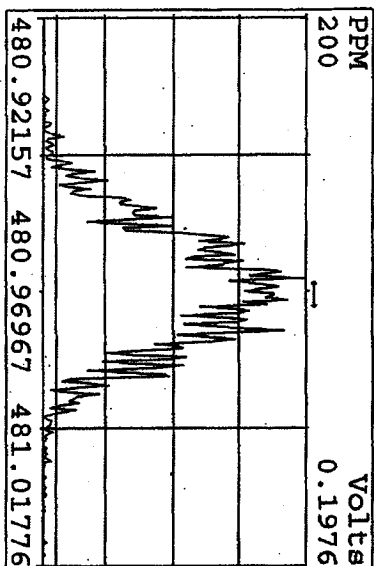
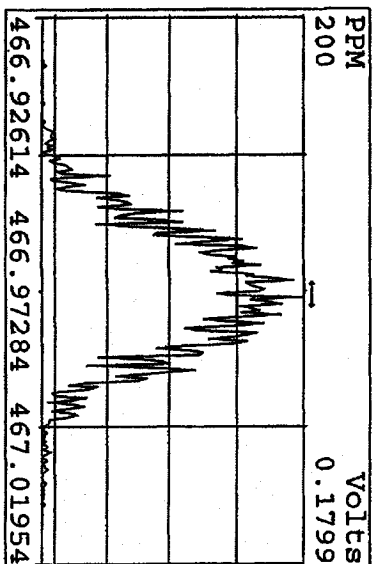
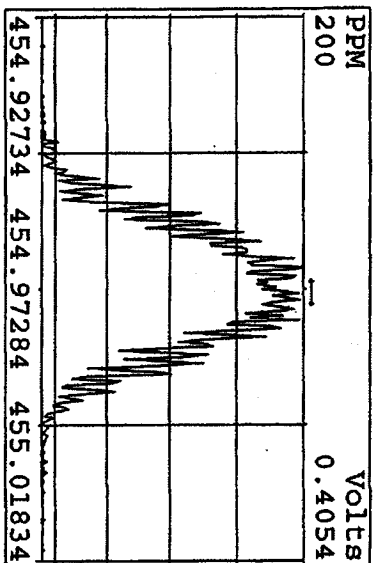
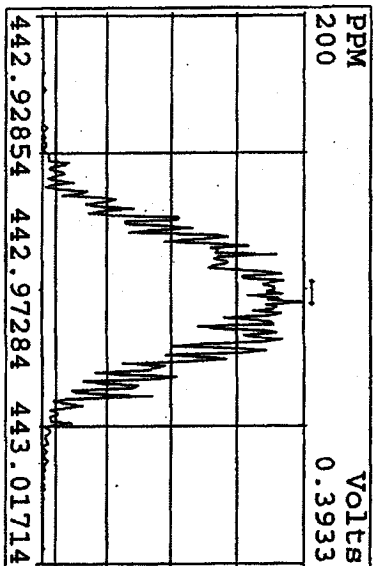
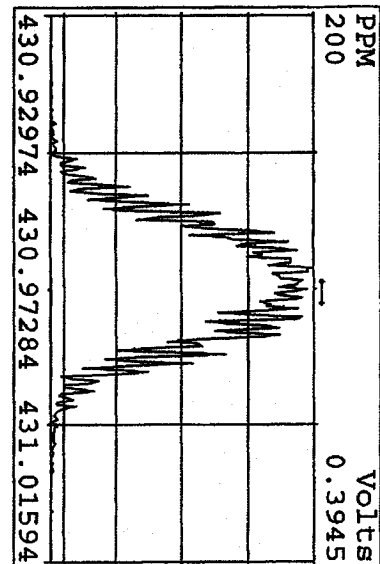
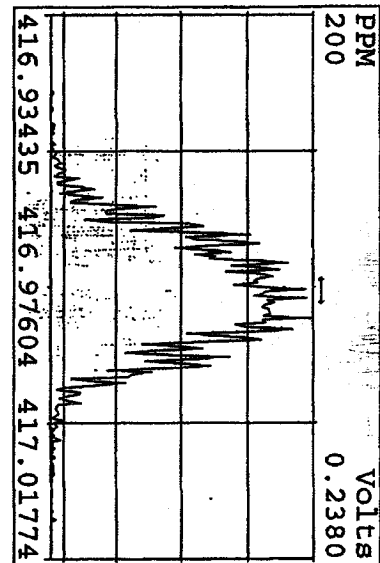
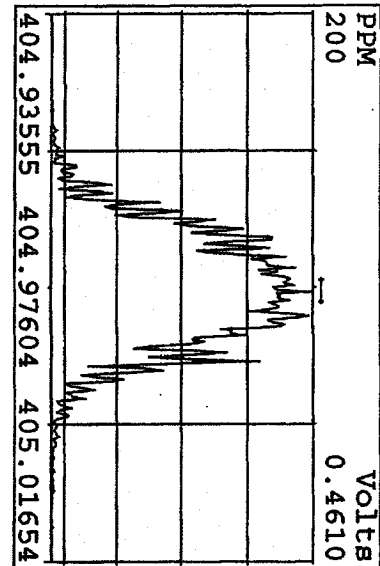
Peak Locate Examination:31-DEC-2009:23:20 File:31DE09A1D5
 Experiment:DIOXIN Function:2 Reference:PFK



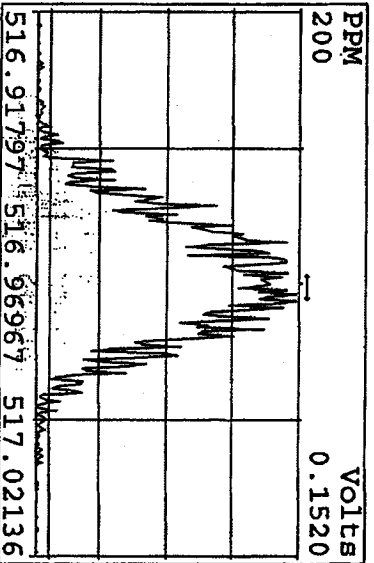
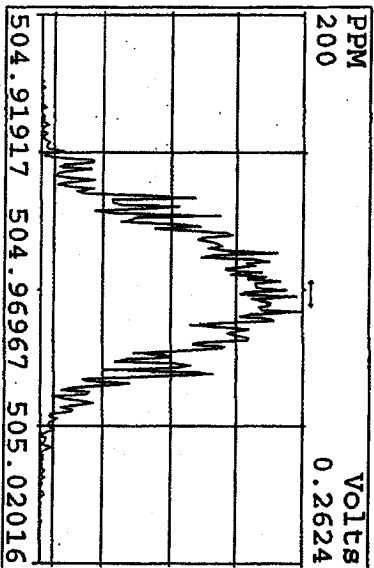
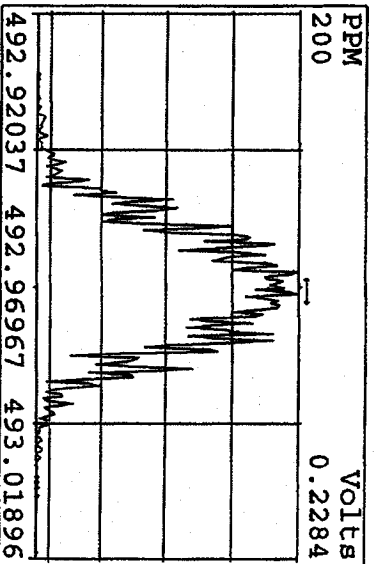
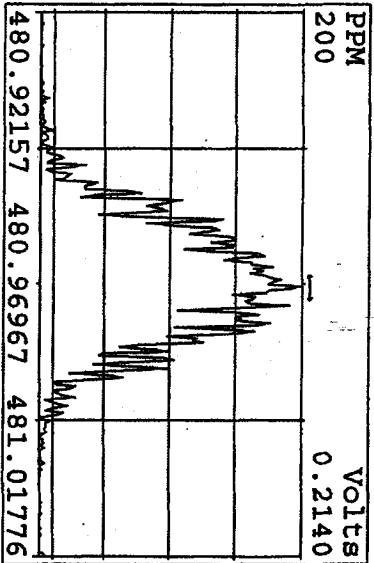
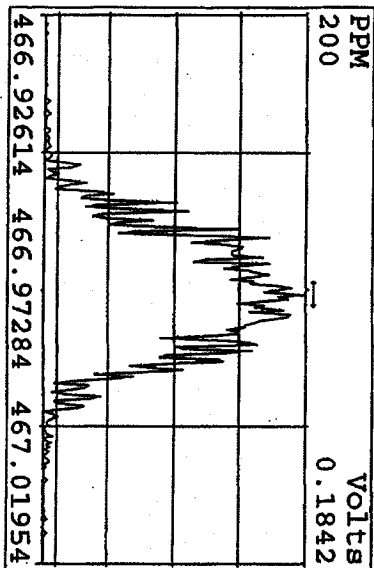
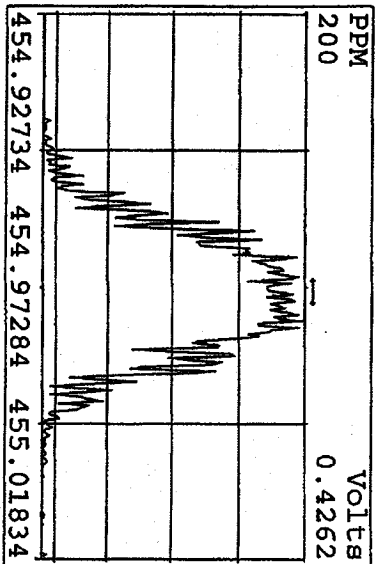
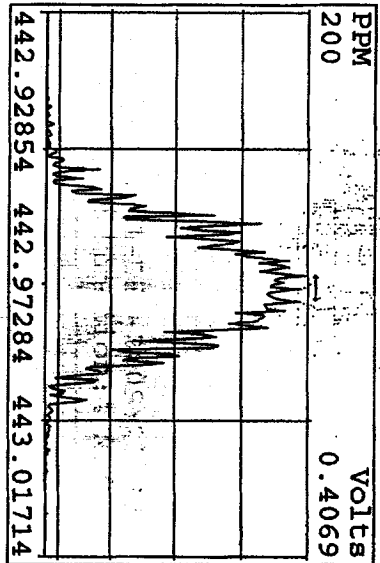
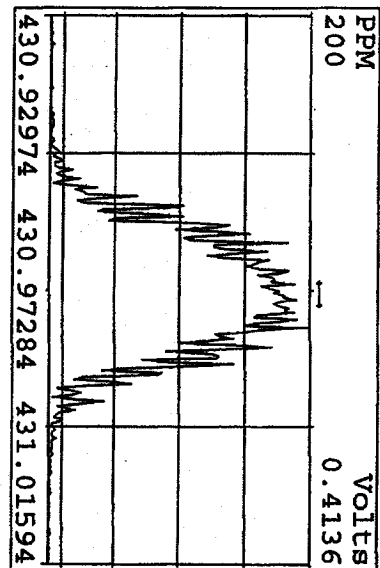
Peak Locate Examination:31-DEC-2009:23:21 File:31DE09A1D5
 Experiment:DIOXIN Function:3 Reference:PFK



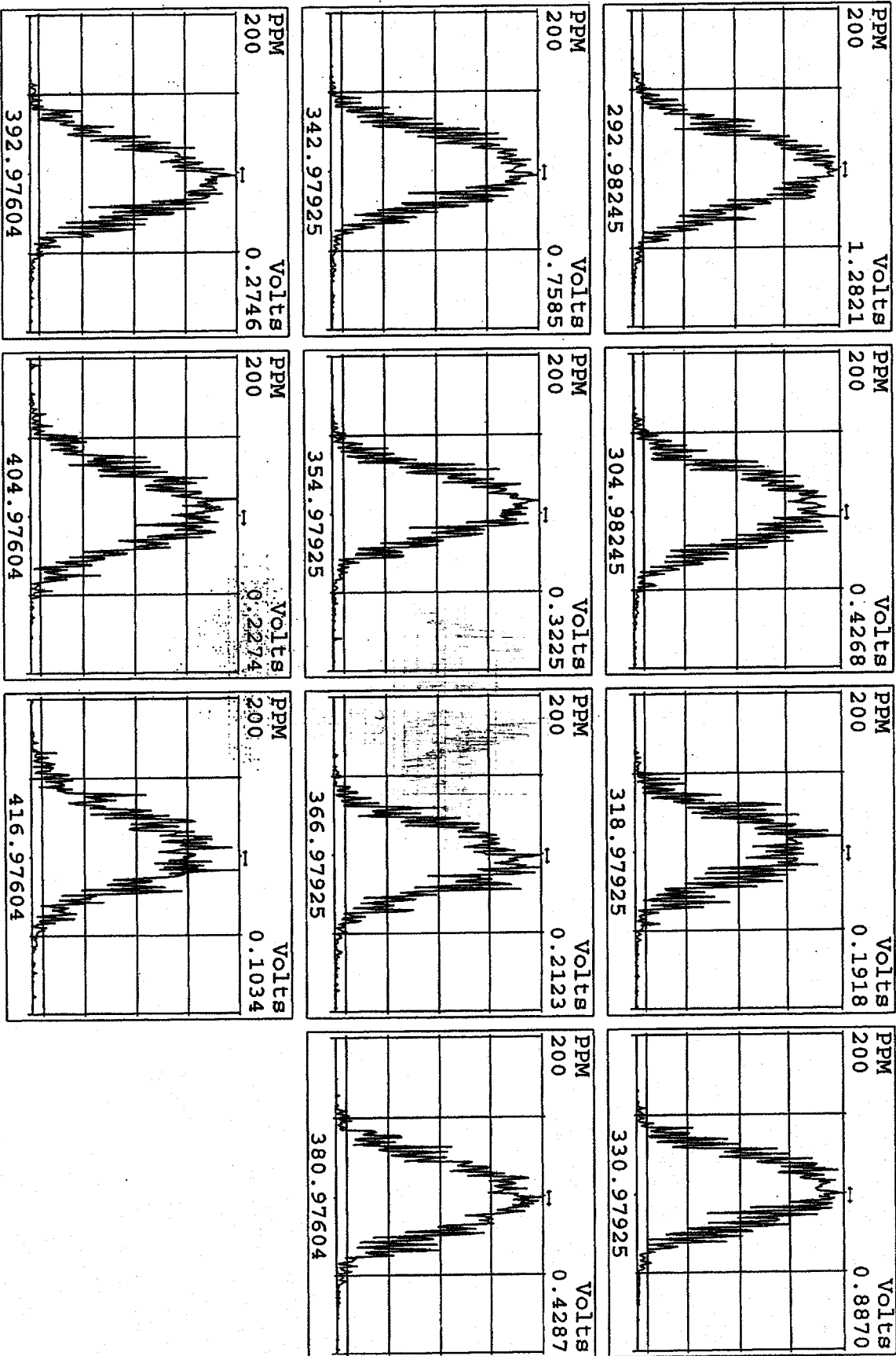
Peak Locate Examination: 31-DEC-2009: 23:22 File: 31DE09A1D5
 Experiment: DIOXIN Function: 4 Reference: PK



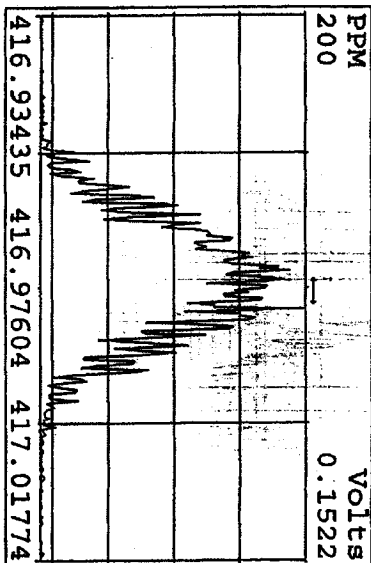
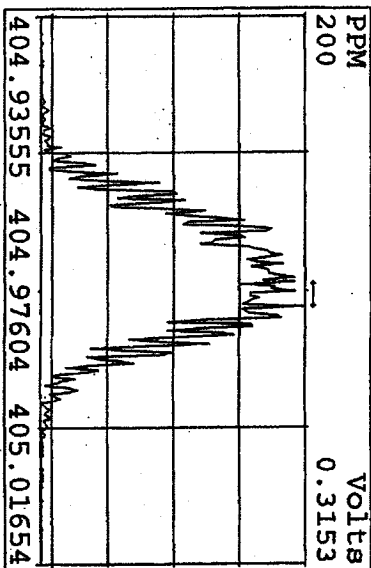
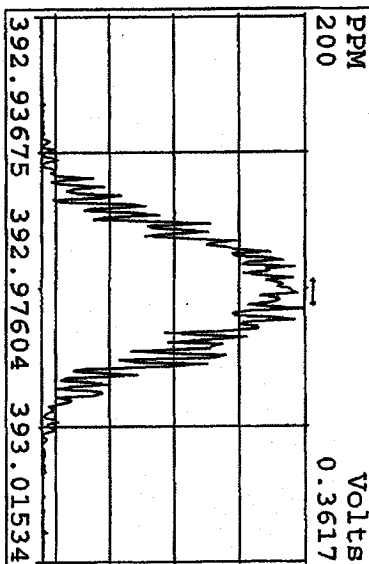
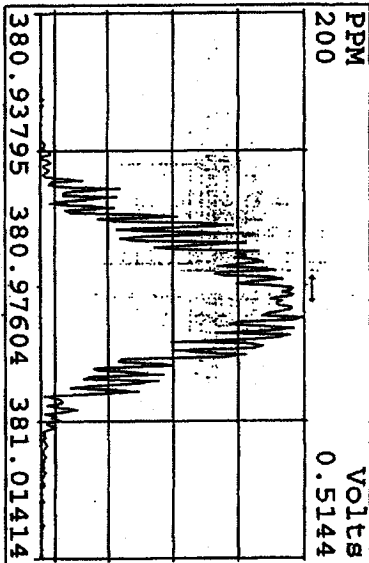
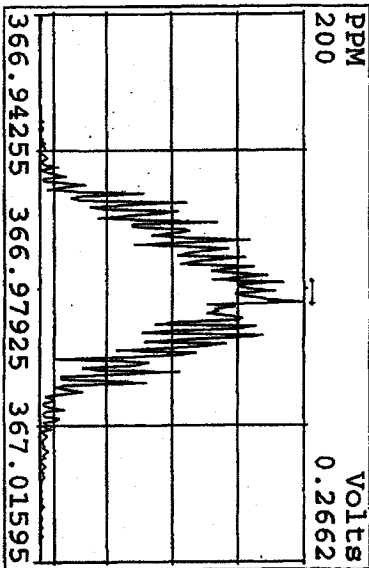
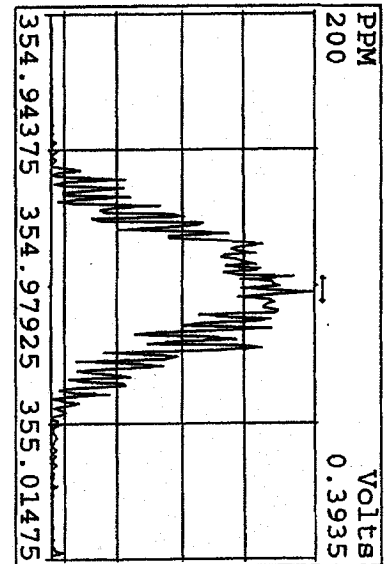
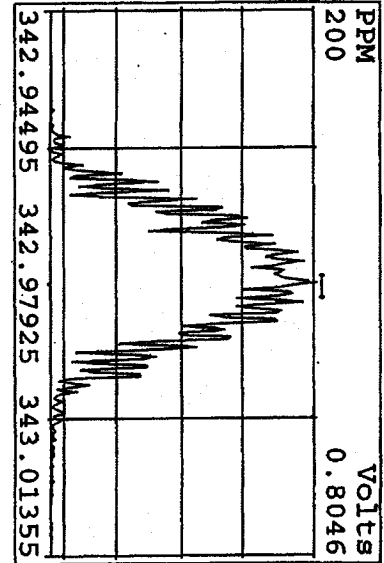
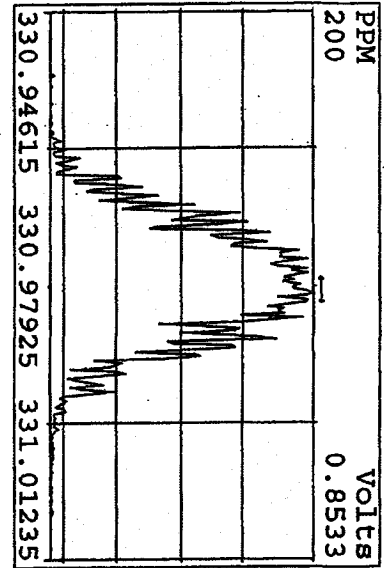
Peak Locate Examination: 31-DEC-2009:23:24 File:31DE09A1D5
 Experiment:DIOXIN Function:5 Reference:PKF



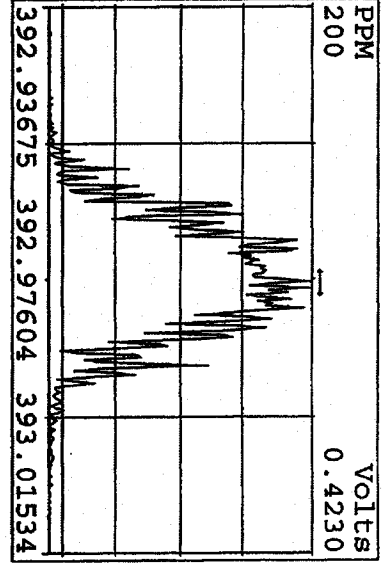
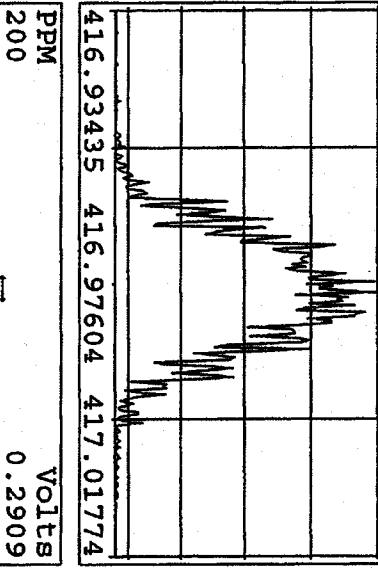
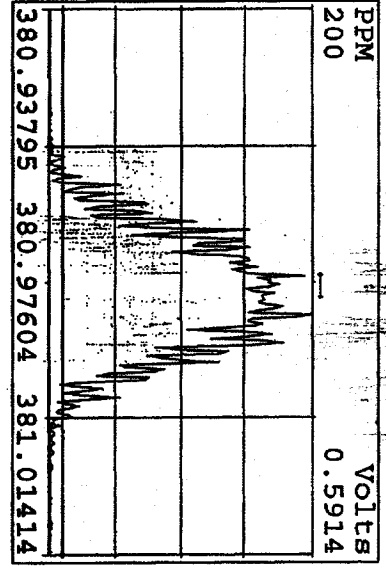
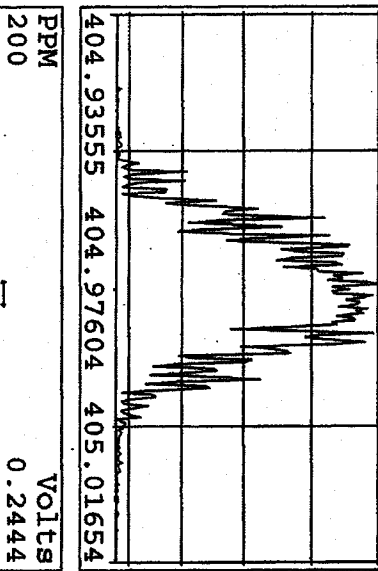
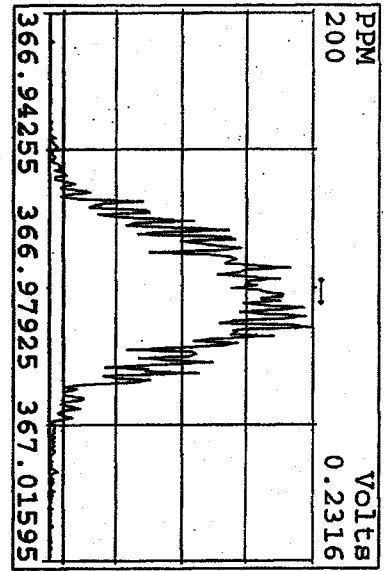
Peak Locate Examination: 1-JAN-2010:07:36 File: RESCHECK1D5
Experiment: DIOXIN Function: 1 Reference: PK



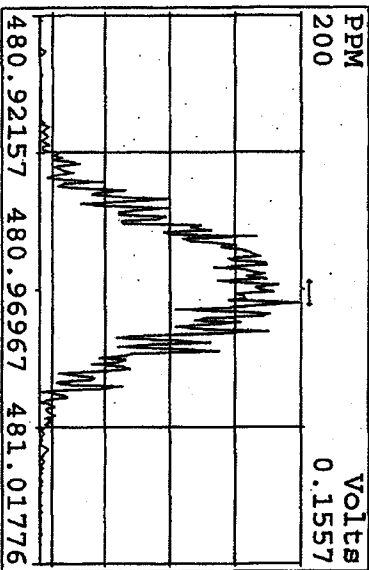
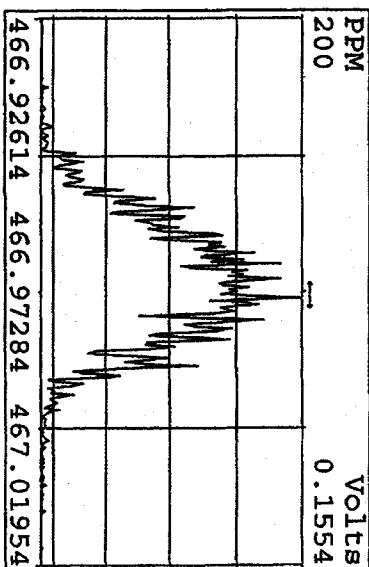
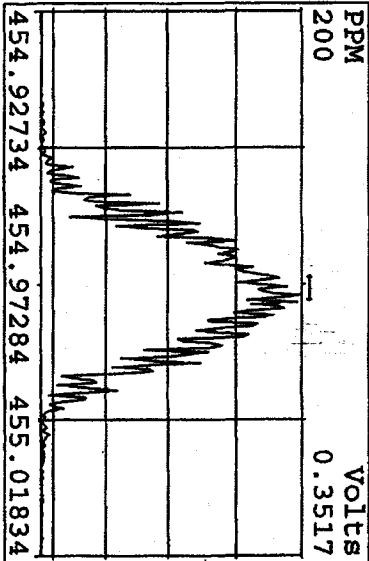
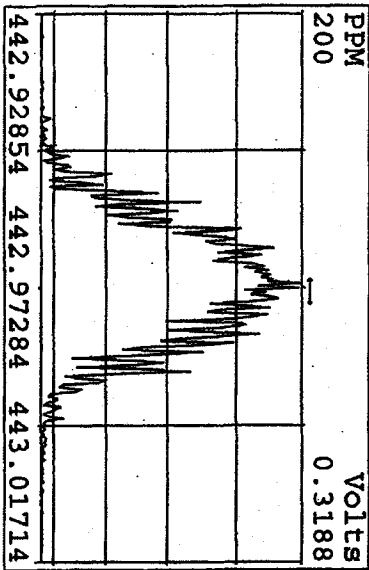
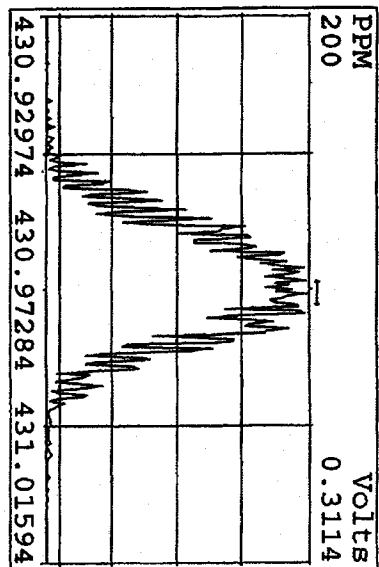
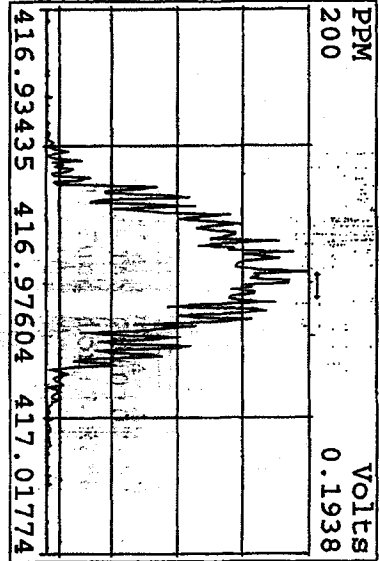
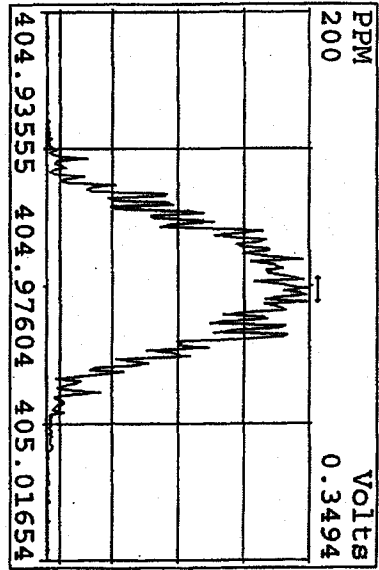
Peak Locate Examination: 1-JAN-2010:07:37 File:RESCHECK1D5
 Experiment:DIOXIN Function:2 Reference:PKF



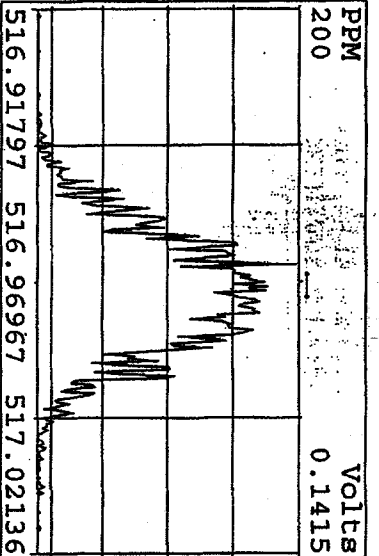
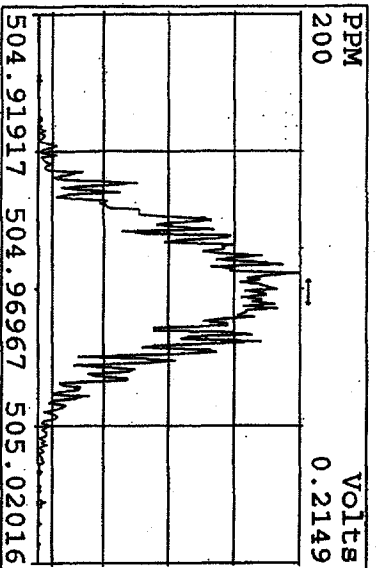
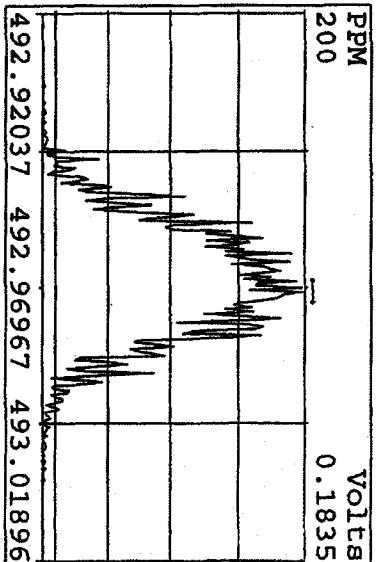
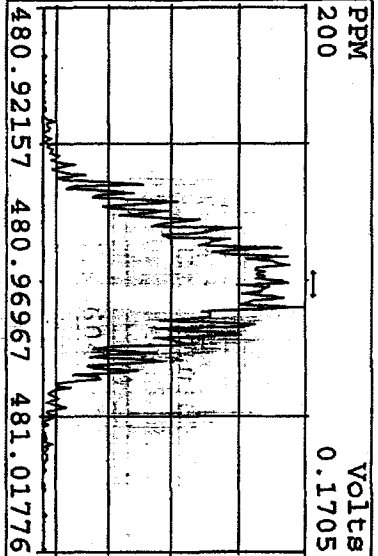
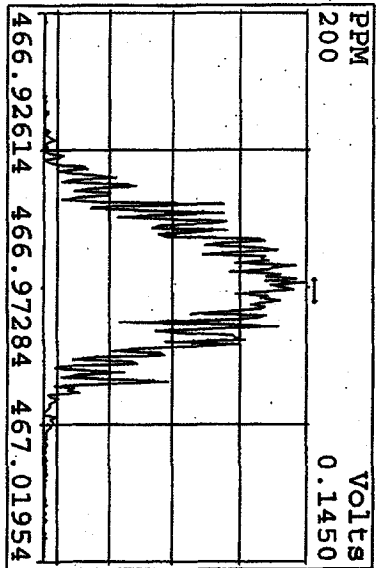
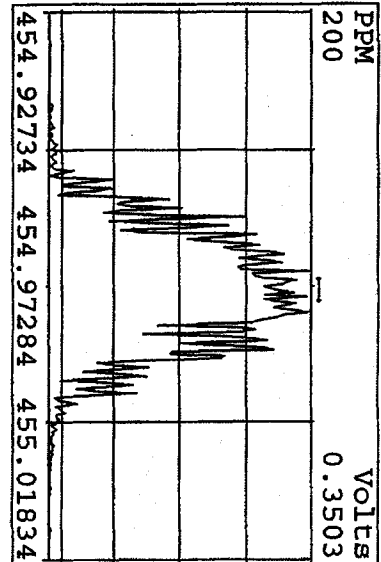
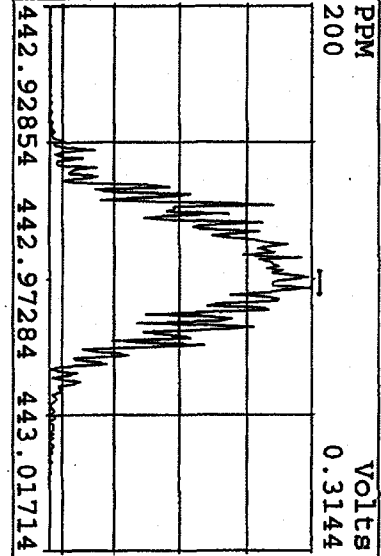
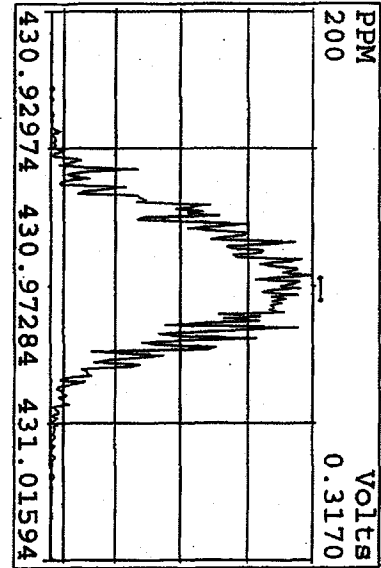
Peak Locate Examination: 1-JAN-2010:07:38 File:RESCHECK1D5
 Experiment:DIOXIN Function:3 Reference:PFK



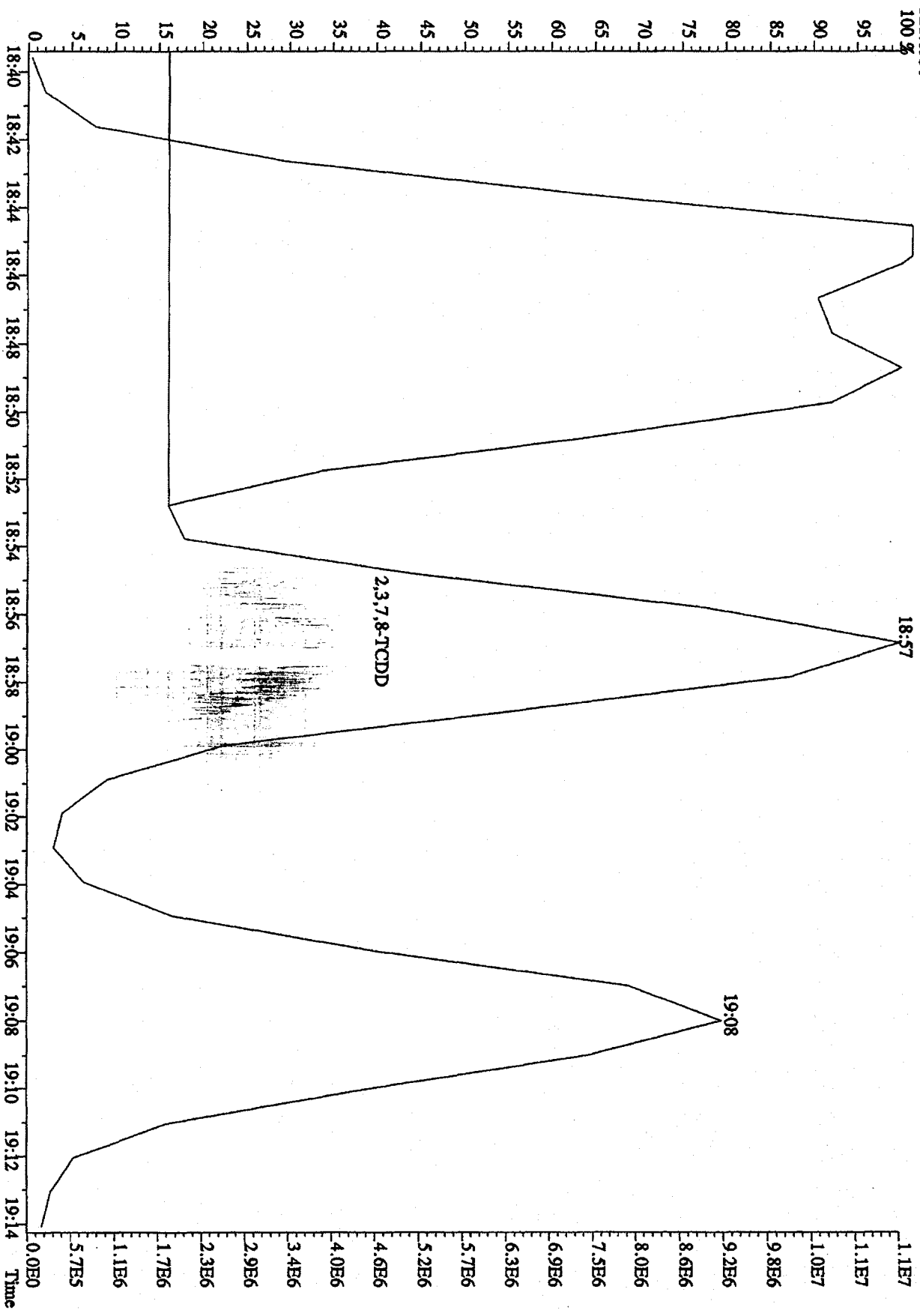
Peak Locate Examination: 17 JAN-2010:07:39 File: RESCHECKID5
 Experiment: DIOXIN Function: 4 Reference: PFK



Peak Locate Examination: 1-JAN-2010:07:40 File: RESCHECK1D5
 Experiment: DIOXIN Function: 5 Reference: PFK



File:31DE09A1D5 #1-410 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPSM 3732-04 Exp:DIOXIN
 321.8936



Quantitation Summary

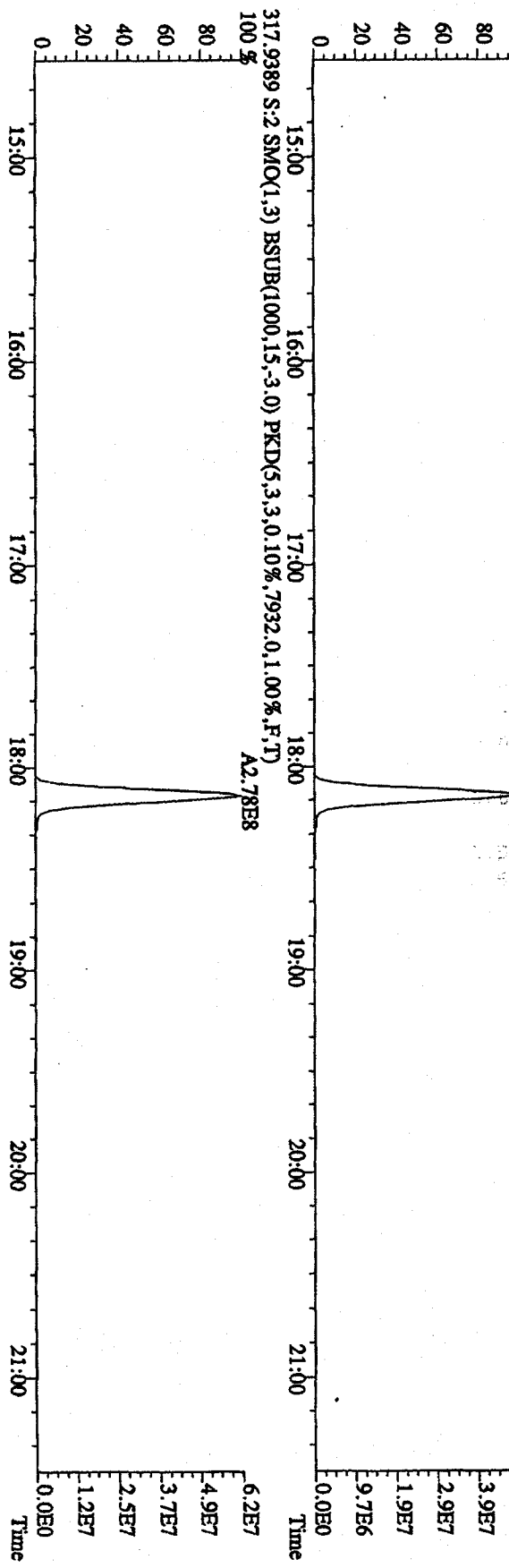
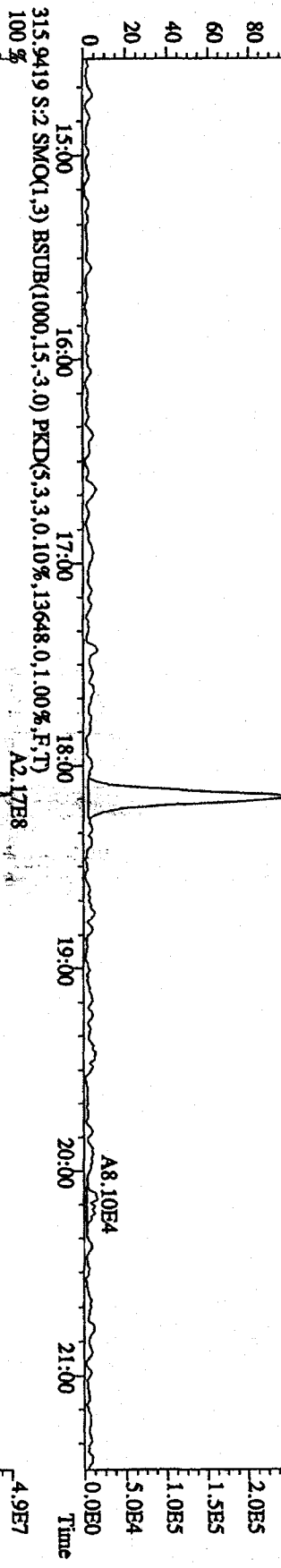
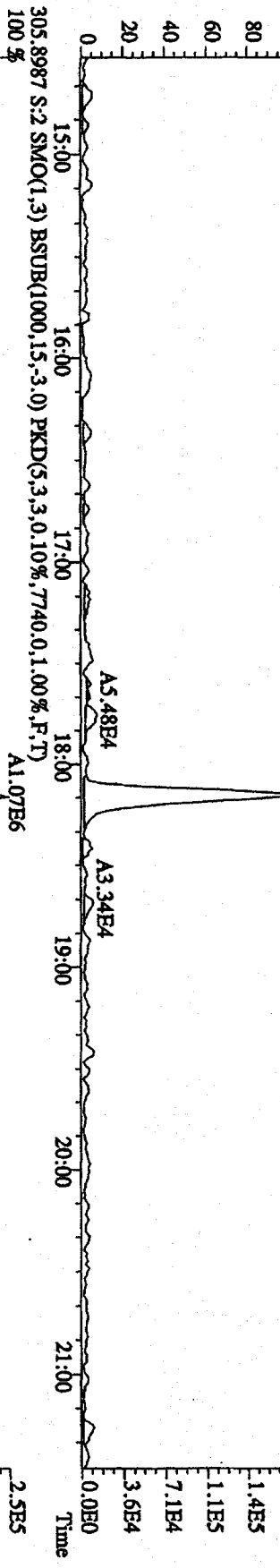
TestAmerica West Sacramento

Run text: ST1231G Sample text: ST1231G :2nd Source 09DXN449
 Run #6 Filename: 31DE09A1D5 S: 8 I: 1 Results: 31DE09A1D51613
 Acquired: 1-JAN-10 04:19:56 Processed: 4-JAN-10 08:47:22
 Run: 31DE09A1D5 Analyte: 1613 Cal: 16131231091D5
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

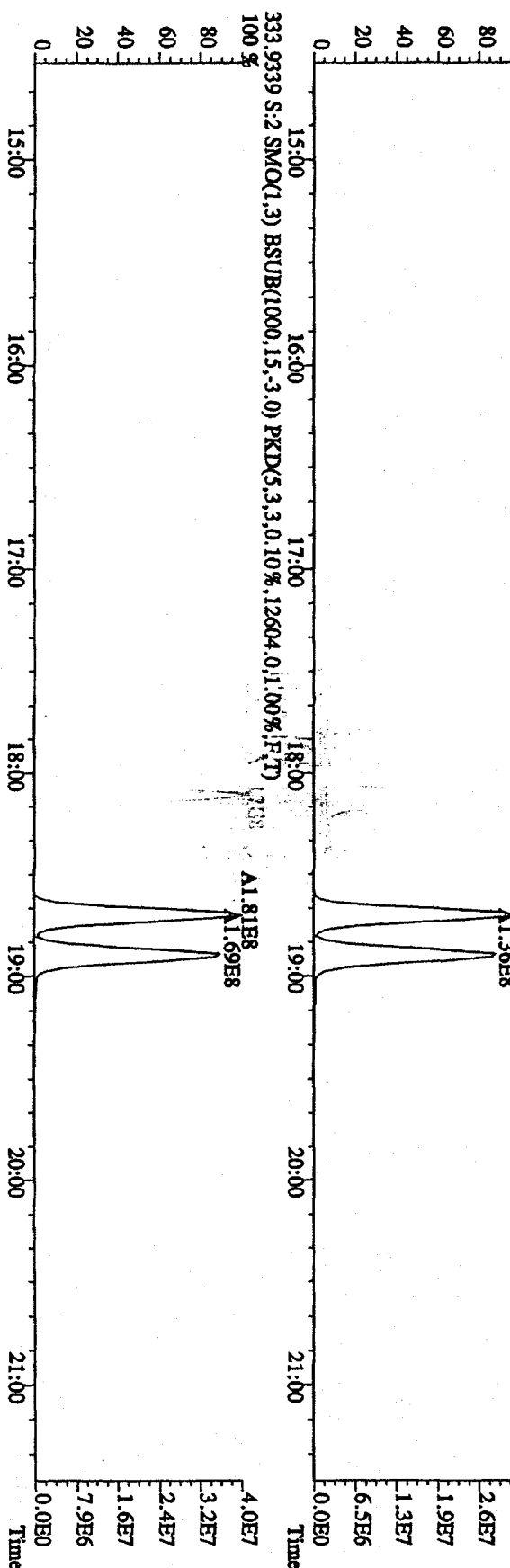
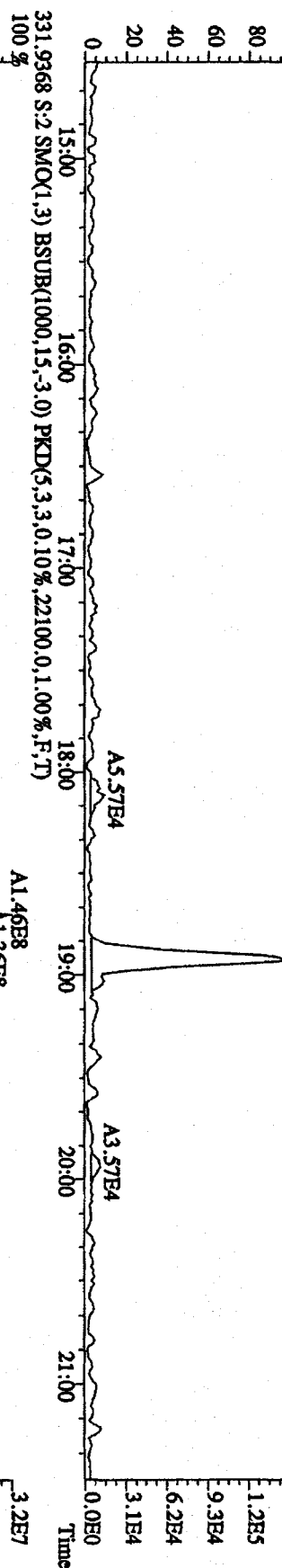
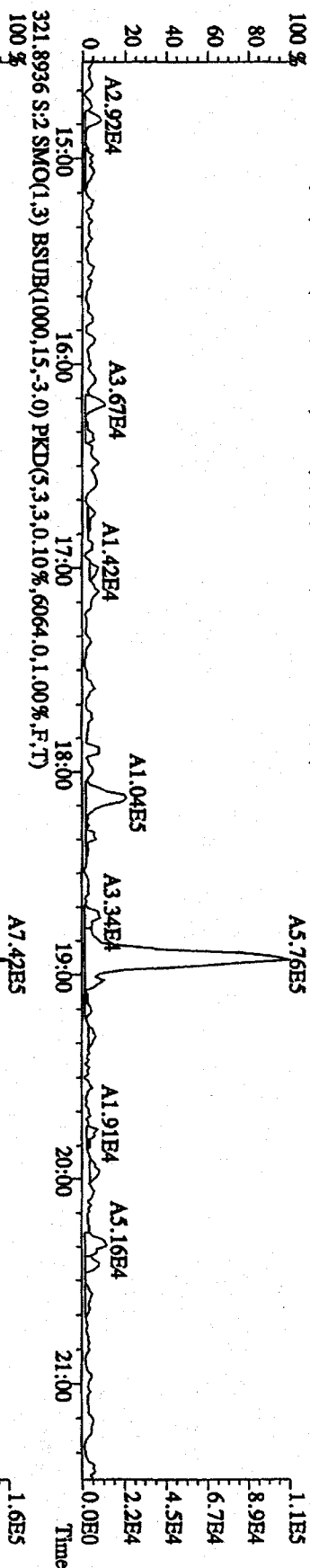
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	233268000	0.81 y	18:42	-	74.89	-	3.7	n
13C-2,3,7,8-TCDF	353417000	0.79 y	18:09	1.57	1934.92	1.89	96.7	n
2,3,7,8-TCDF	29473900	0.75 y	18:10	0.86	193.98	1.19	-	n
Total TCDF	29878342	0.71 y	17:44	0.86	196.64	1.19	-	n
13C-2,3,7,8-TCDD	237599000	0.79 y	18:54	0.99	2050.84	3.63	102.5	n
2,3,7,8-TCDD	20517060	0.77 y	18:55	0.93	184.95	1.19	-	n
Total TCDD	20584547	4.35 n	18:08	0.93	185.56	1.19	-	n
37Cl-2,3,7,8-TCDD	54584600	1.00 y	18:55	2.22	210.99	0.58	105.5	n
13C-1,2,3,7,8-PeCDF	258286200	1.61 y	23:34	1.07	2064.12	1.55	103.2	n
1,2,3,7,8-PeCDF	61444300	1.63 y	23:35	1.00	475.75	1.74	-	n
13C-2,3,4,7,8-PeCDF	243753700	1.62 y	24:59	1.03	2025.63	1.61	101.3	n
2,3,4,7,8-PeCDF	55918300	1.65 y	25:01	0.98	469.60	2.00	-	n
Total F2 PeCDF	119226673	0.82 n	22:06	0.99	960.37	1.86	-	n
Total F1 PeCDF	218994	0.56 n	16:04	0.99	1.76	1.60	-	n
13C-1,2,3,7,8-PeCDD	156506400	1.64 y	25:46	0.67	2013.73	1.54	100.7	n
1,2,3,7,8-PeCDD	33662100	1.63 y	25:48	0.93	462.96	2.68	-	n
Total PeCDD	33824671	3.66 n	25:27	0.93	465.20	2.68	-	n
13C-1,2,3,7,8,9-HxCDD	177940200	1.25 y	32:51	-	64.87	-	-	n
13C-1,2,3,4,7,8-HxCDF	184934800	0.51 y	31:27	0.89	2328.15	4.47	116.4	n
1,2,3,4,7,8-HxCDF	53136200	1.31 y	31:28	1.20	479.25	2.45	-	n
13C-1,2,3,6,7,8-HxCDF	244860900	0.52 y	31:36	1.14	2407.44	3.49	120.4	n
1,2,3,6,7,8-HxCDF	62674400	1.23 y	31:37	1.07	477.98	2.04	-	n
13C-2,3,4,6,7,8-HxCDF	206484200	0.51 y	32:17	0.99	2340.79	4.03	117.0	n
2,3,4,6,7,8-HxCDF	51999200	1.28 y	32:18	1.12	450.75	2.09	-	n
13C-1,2,3,7,8,9-HxCDF	200333300	0.51 y	33:03	1.07	2099.56	3.72	105.0	n
1,2,3,7,8,9-HxCDF	52210900	1.25 y	33:04	1.09	476.28	2.26	-	n
Total HxCDF	220020700	1.31 y	31:28	1.12	1884.27	2.20	-	n
13C-1,2,3,4,7,8-HxCDD	148948400	1.25 y	32:27	0.73	2291.14	1.29	114.6	n
1,2,3,4,7,8-HxCDD	35533800	1.25 y	32:28	0.97	493.76	1.44	-	n
13C-1,2,3,6,7,8-HxCDD	152466700	1.30 y	32:33	0.73	2340.82	1.29	117.0	n
1,2,3,6,7,8-HxCDD	38830200	1.26 y	32:34	1.06	481.27	1.47	-	n
1,2,3,7,8,9-HxCDD	40200100	1.26 y	32:52	1.27	419.65	1.16	-	n
Total HxCDD	114605618	3.00 n	32:17	1.10	1395.19	1.34	-	n
13C-1,2,3,4,6,7,8-HpCDF	173164700	0.43 y	34:36	0.86	2262.83	6.25	113.1	n
1,2,3,4,6,7,8-HpCDF	54083400	1.05 y	34:37	1.29	485.50	1.92	-	n
13C-1,2,3,4,7,8,9-HpCDF	152527600	0.42 y	35:53	0.77	2233.57	7.00	111.7	n
1,2,3,4,7,8,9-HpCDF	44615700	1.05 y	35:54	1.27	459.77	2.42	-	n
Total HpCDF	98699100	1.05 y	34:37	1.28	945.27	2.15	-	n

13C-1,2,3,4,6,7,8-HpCDD	150261100	1.06	y	35:32	0.75	2245.36	4.02	112.3	n
1,2,3,4,6,7,8-HpCDD	35301400	1.05	y	35:33	1.00	470.89	2.29	-	n
Total HpCDD	35553500	0.78	n	34:54	1.00	474.25	2.29	-	n
13C-OCDD	214408000	0.91	y	38:20	0.56	4269.63	4.55	106.7	n
OCDF	71179900	0.89	y	38:28	1.44	923.89	2.51	-	n
OCDD	55918600	0.88	y	38:20	1.11	940.23	2.77	-	n

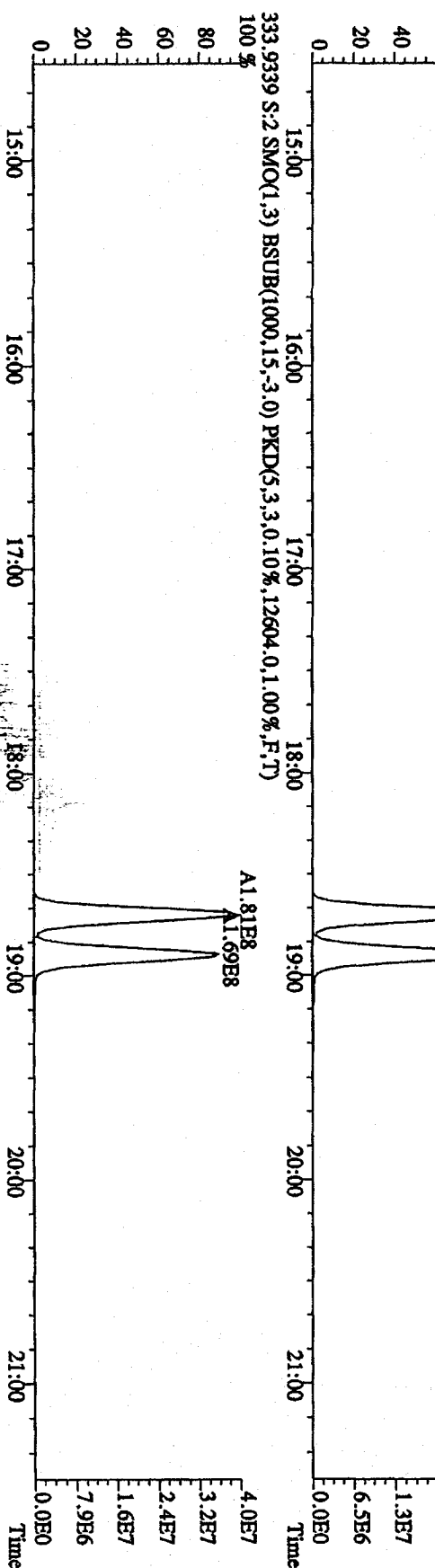
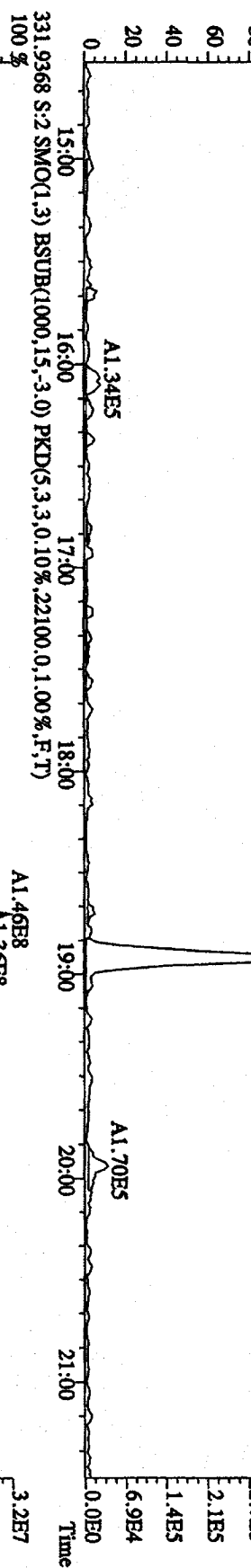
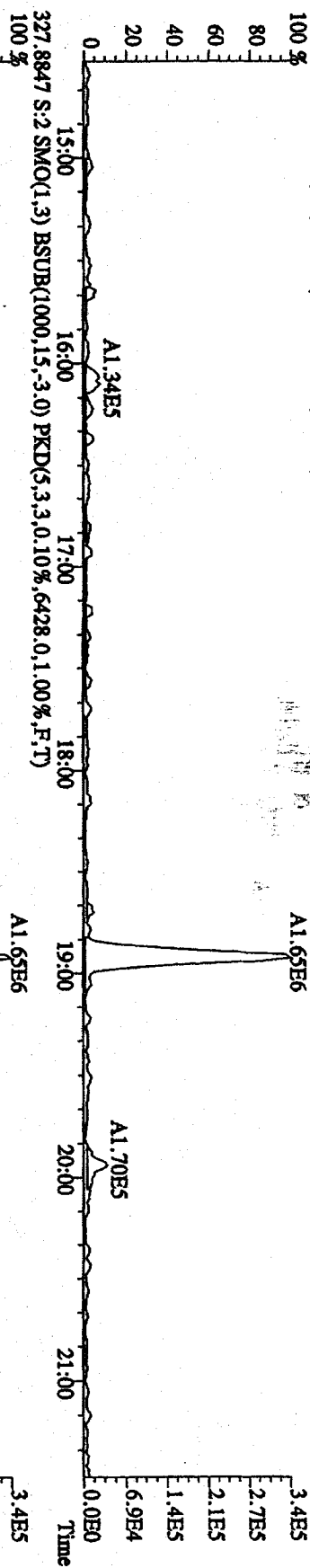
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1231B :CS-1 09DXN422 Exp:DIOXIN
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4776,0,1,00%,F,T)
 100 %



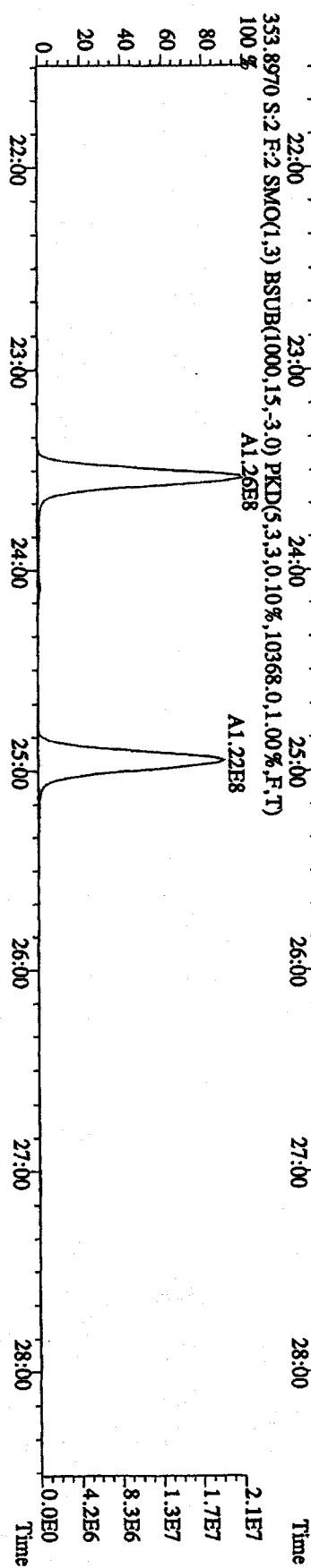
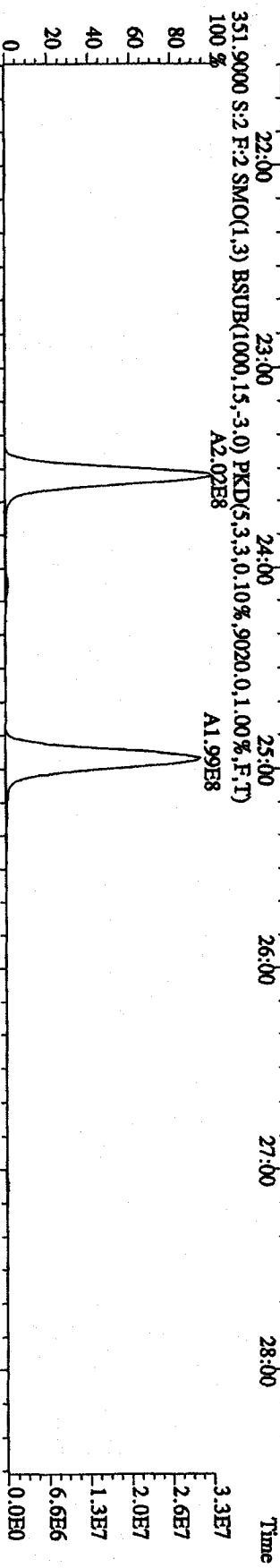
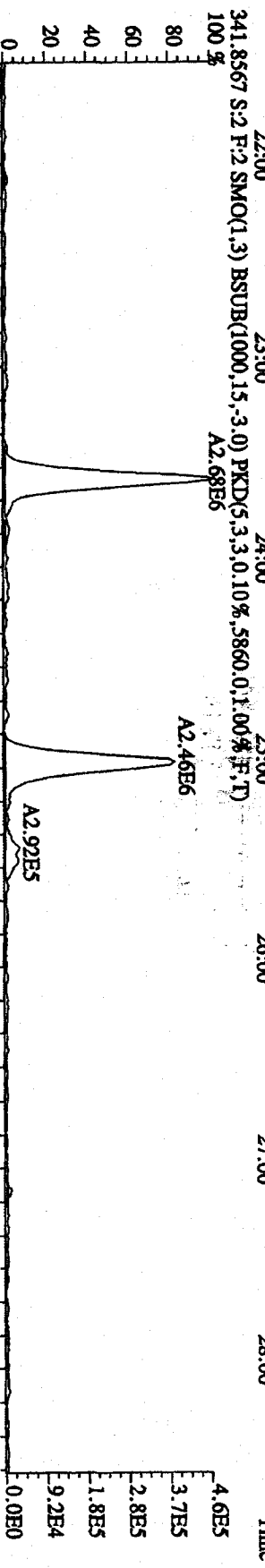
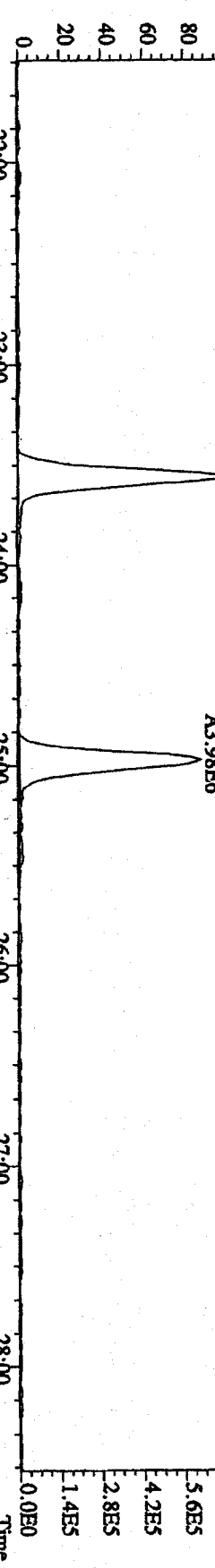
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1231B :CS-1 09DXN422 Exp:DIOXIN
 319.8966 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.3832,0,1,00%,F,T)



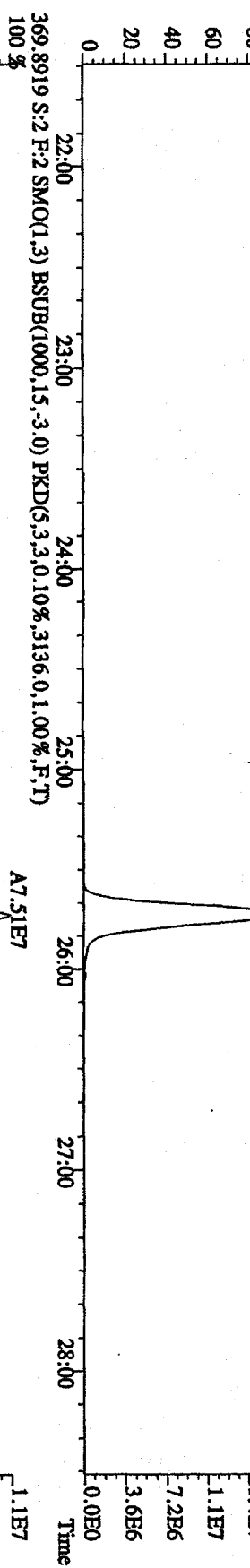
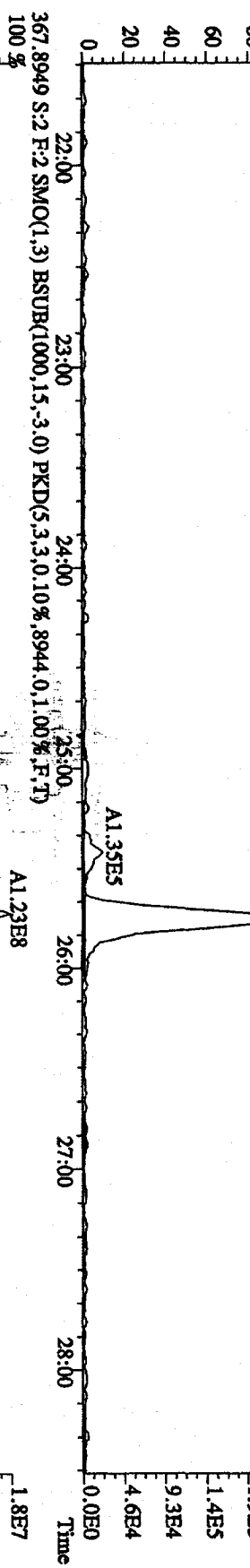
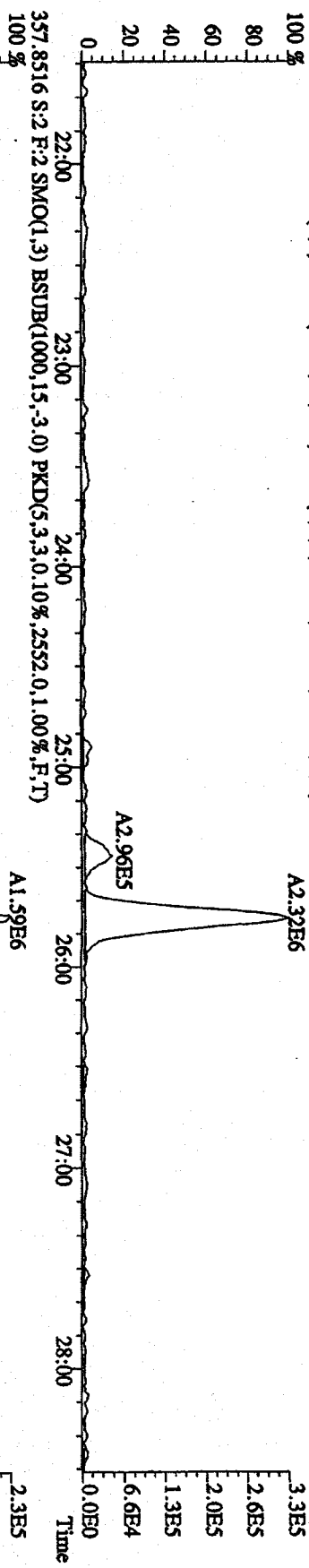
File: 31DE09A1D5 #1-411 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Text: ST1231B :CS-1 09DXN422 Exp: DIOXIN
 327.8847 S:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6428,0,1,00%,F,T)
 100%



File:31DE09A1IDS #1-495 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1231B :CS-1 09DDXN422 Exp:DIOXIN
 339 B597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4700,0.1,00%,F,T)
 100 %

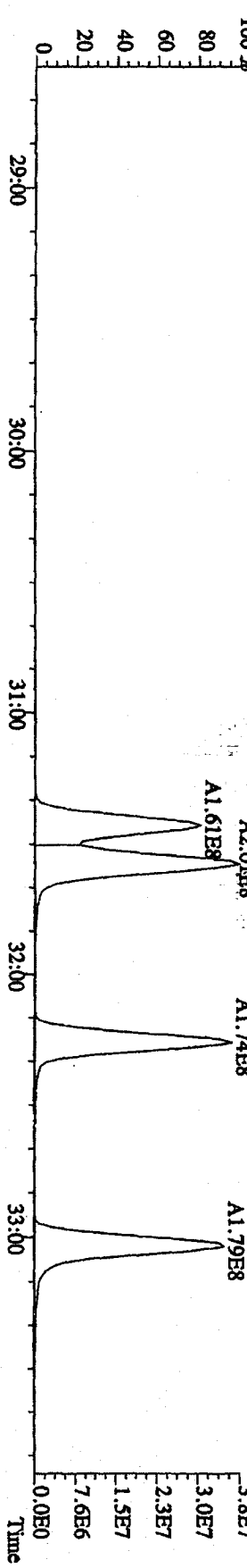
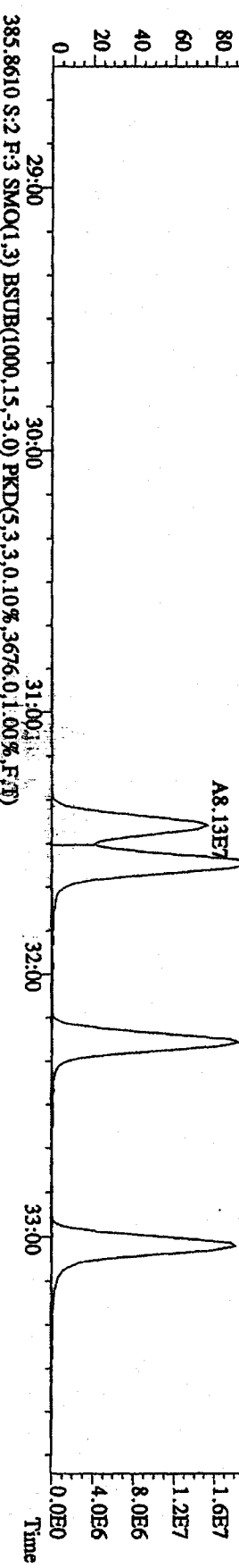
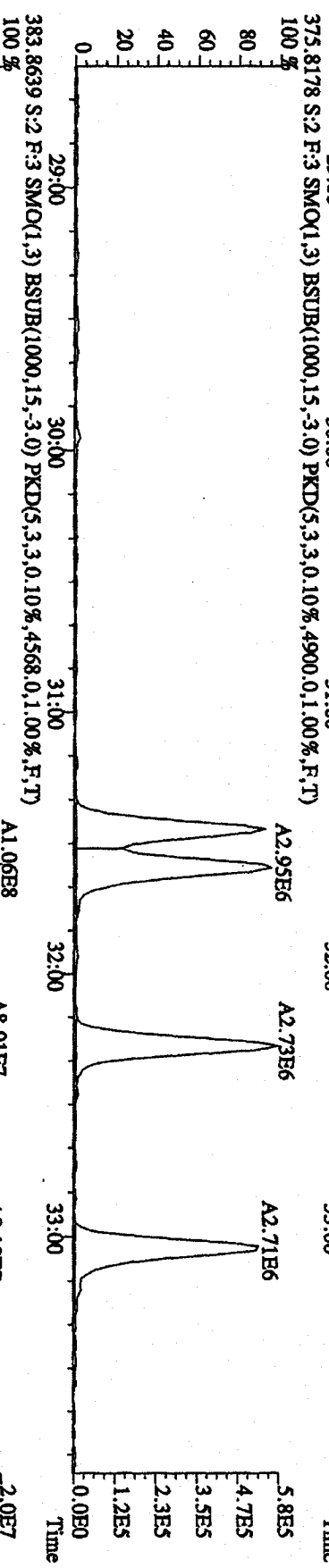
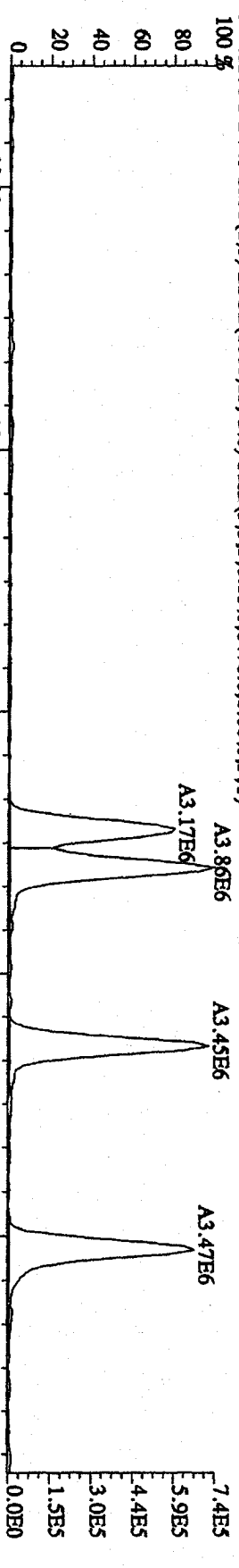


File:31DE09A1D5 #1-495 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1231B :CS-1 09DXN422 Exp:DIOXIN
 355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.5340,0.1,00%,.F,T)
 100 %



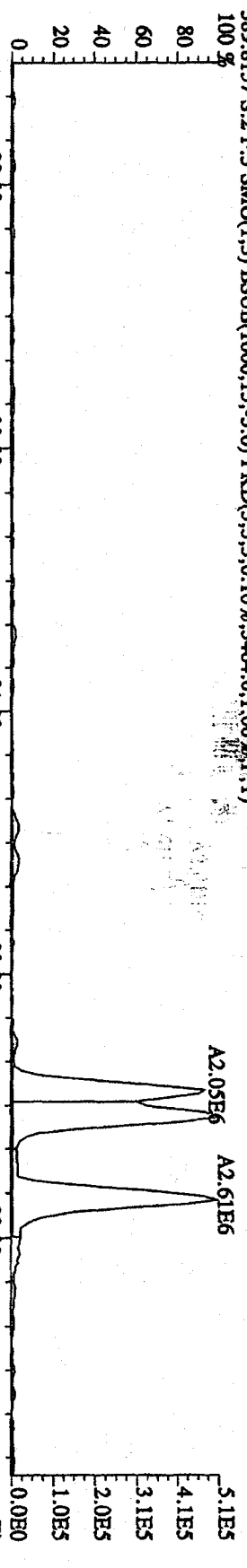
A1.61E7

File:31DE09A1D5 #1-361 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
Sample#2 Text:ST1231B -CS-1 09DXK422 Exp:DIOXIN
373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,6476.0,1.00%,F,T)

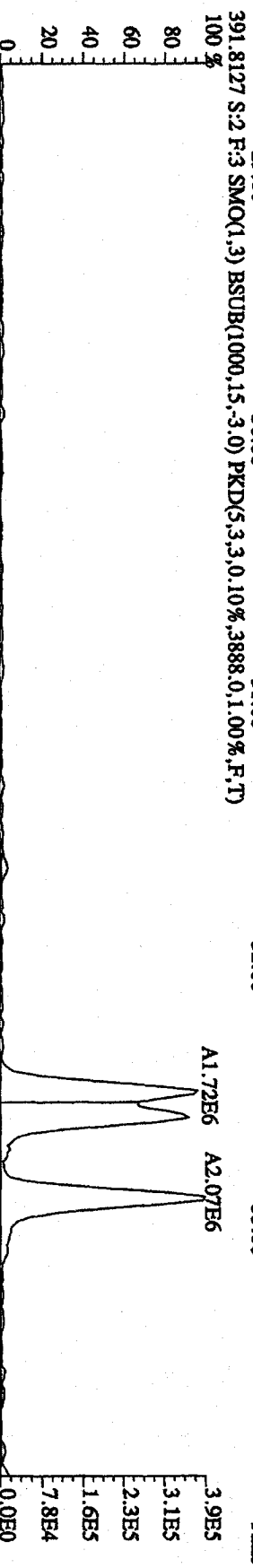


File: 31DE09A1D5 #1-361 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
Sample#2 Text: ST1231B :CS-1 09DXN422 Exp: DIOXIN

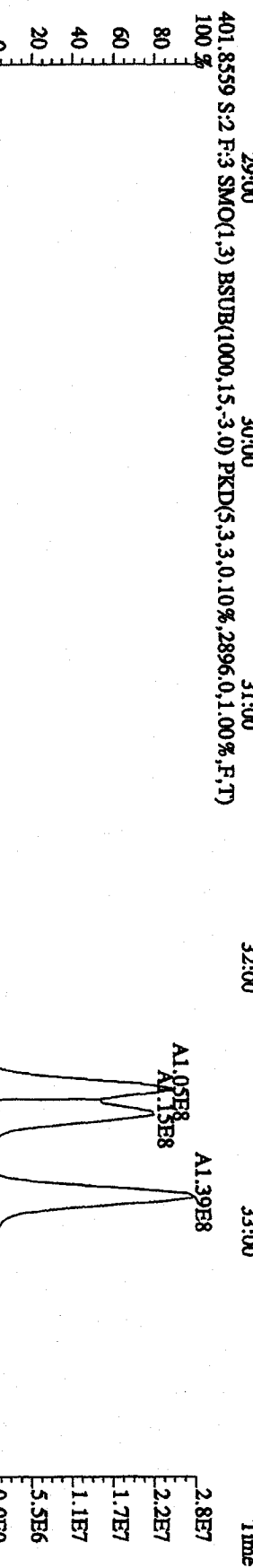
389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3464,0.1,00%,F,T)



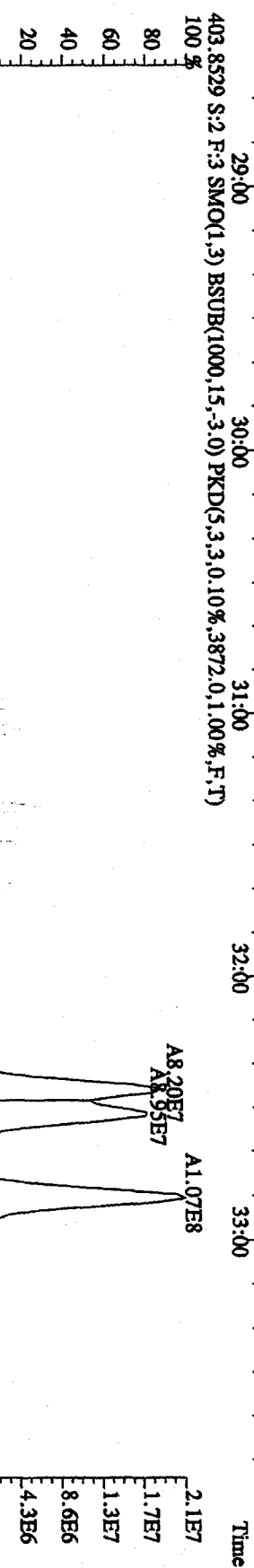
391.8127 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3888,0.1,00%,F,T)



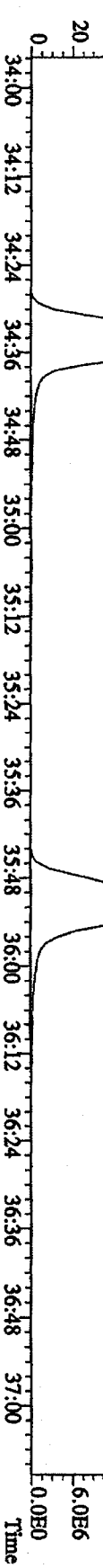
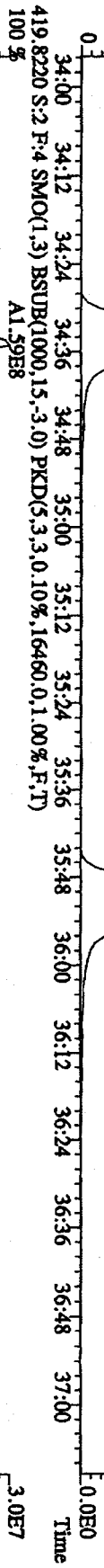
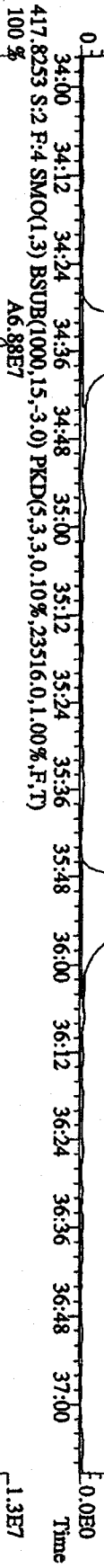
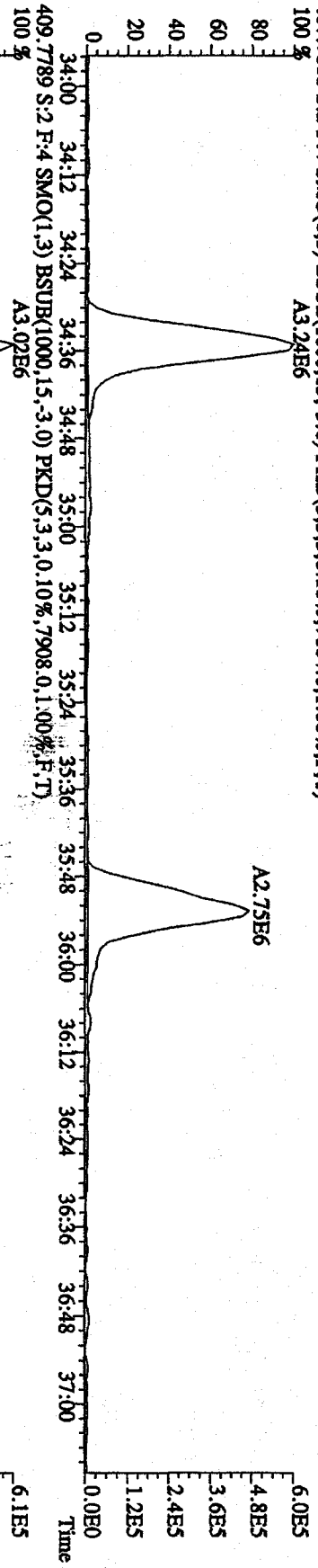
401.8559 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2896,0.1,00%,F,T)



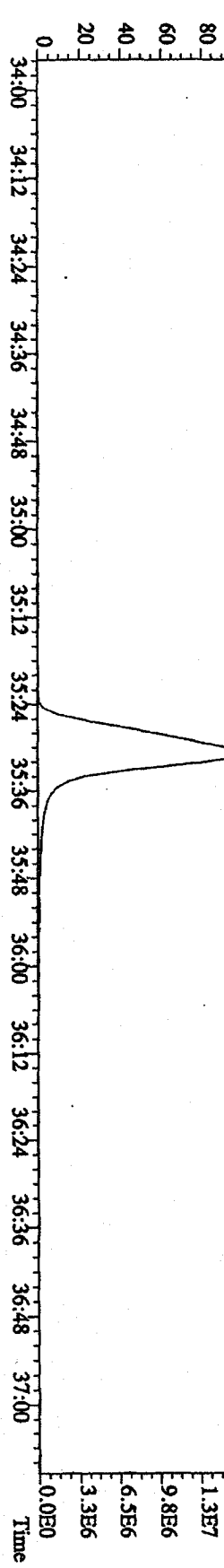
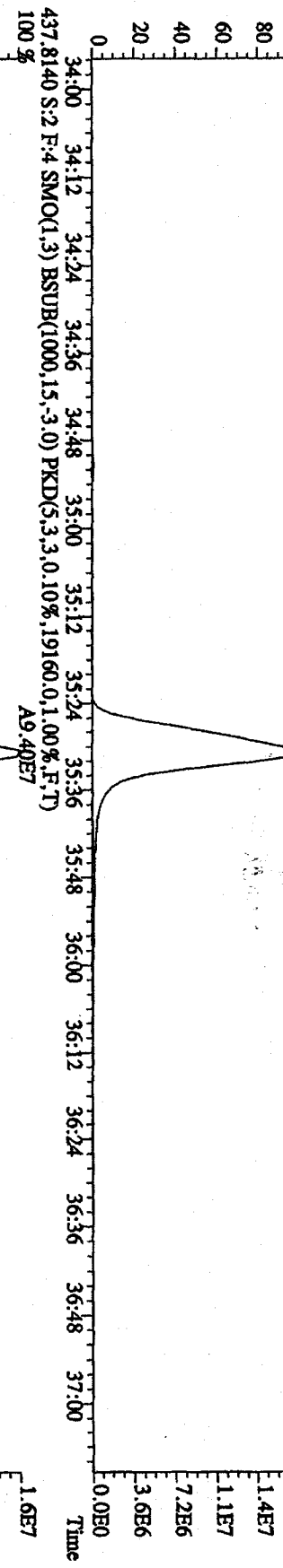
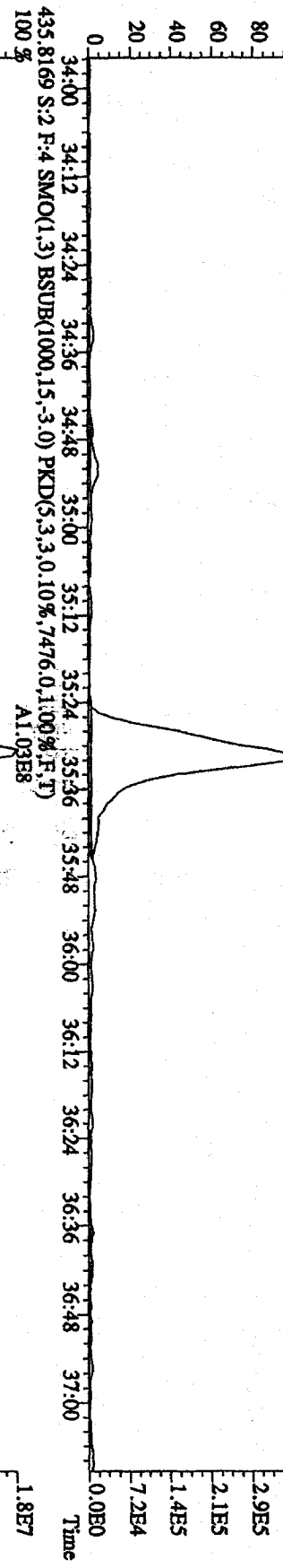
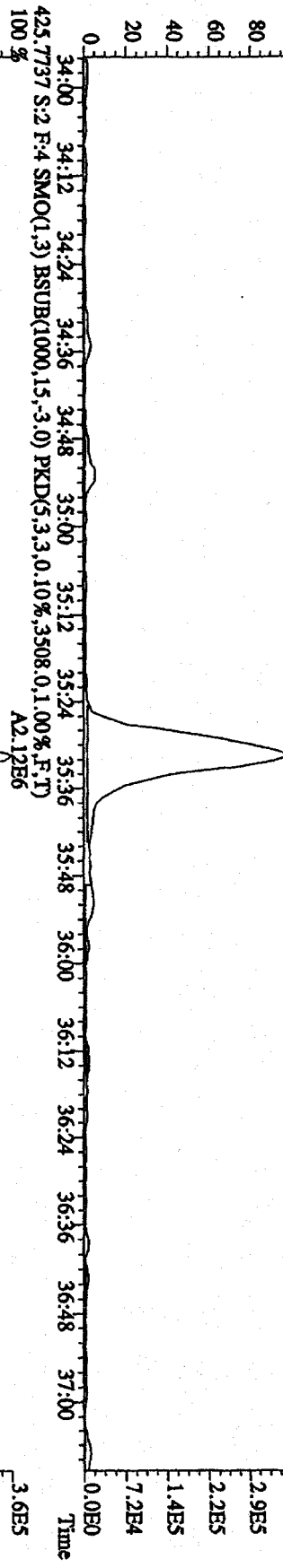
403.8529 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3872,0.1,00%,F,T)



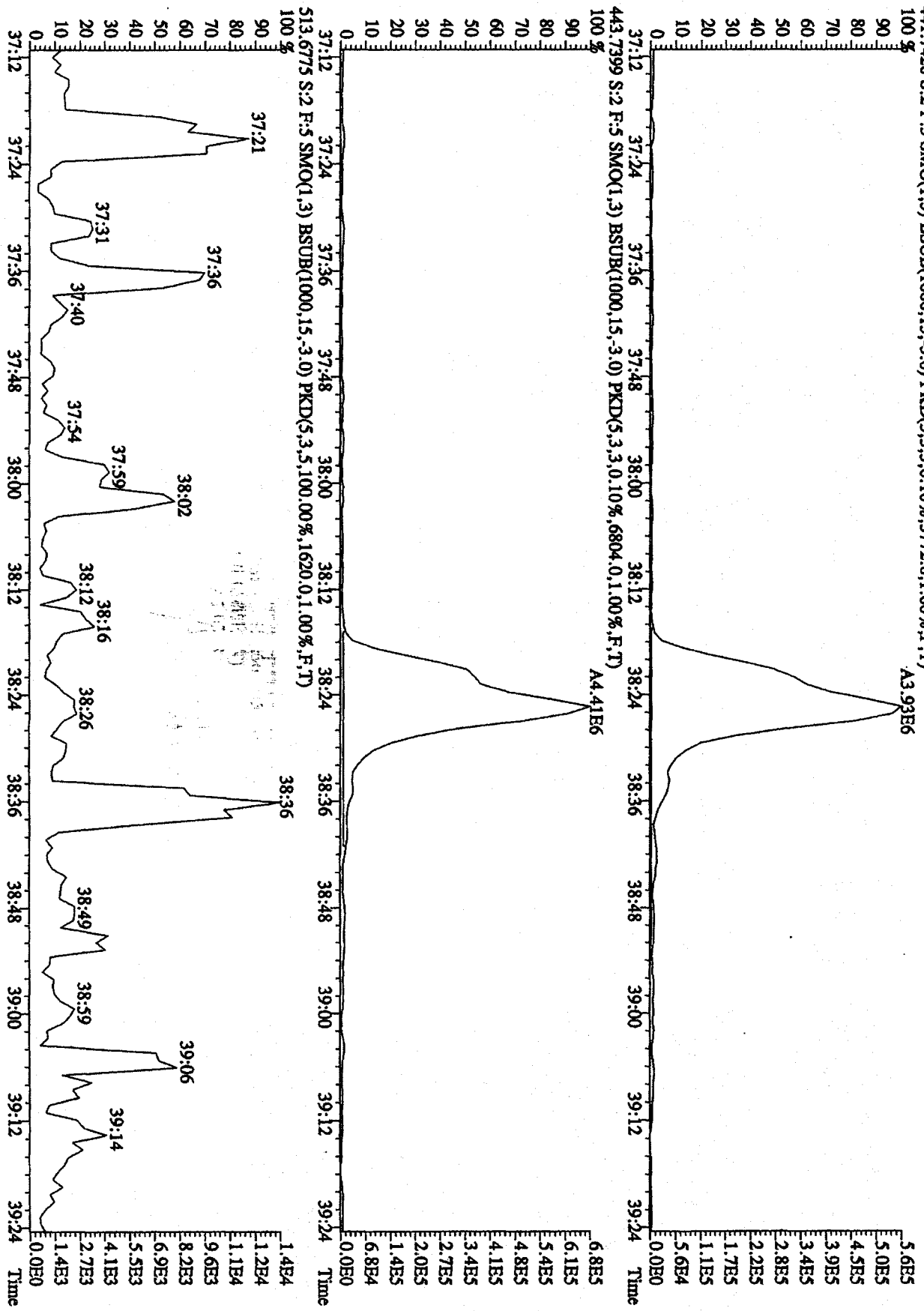
File:31DE09A1D5 #1-228 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1231B :CS-1 09DXN422 Exp:DIOXIN
 407.7818 S:2 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,7184.0,1.00%,F,T)
 100 %



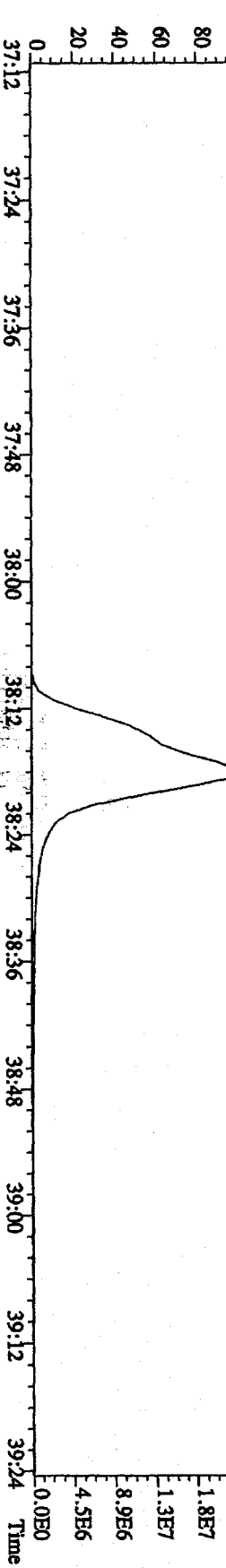
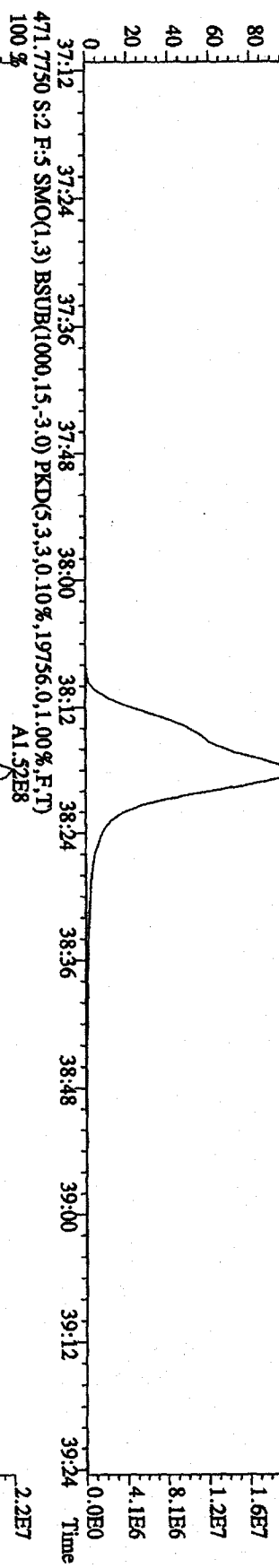
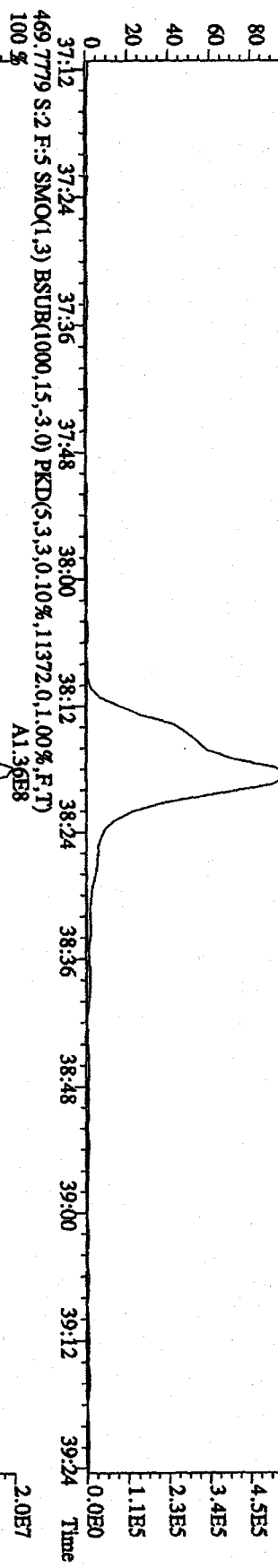
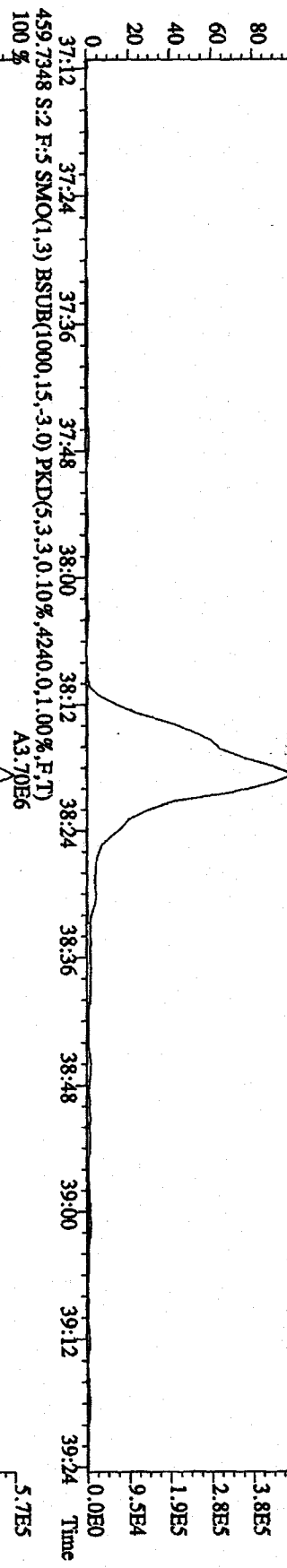
File:31DE9AID5 #1-228 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Tent:ST1231B :CS-1 09DXM422 Exp.:DIOXIN
 423.7766 S:2 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,3468,0,1.00%,F,T)
 100 % A2.07E6



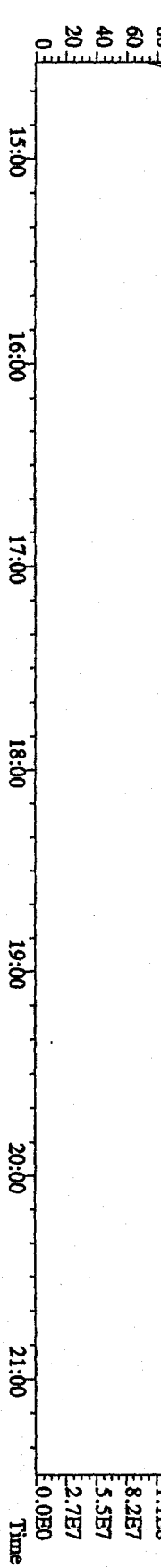
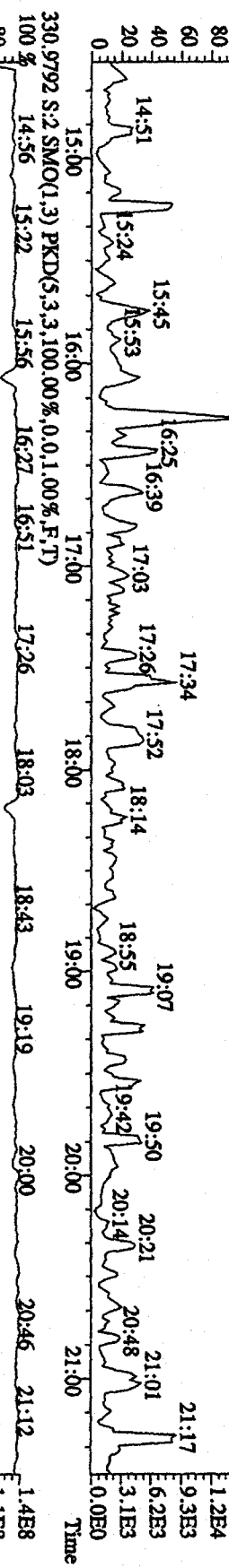
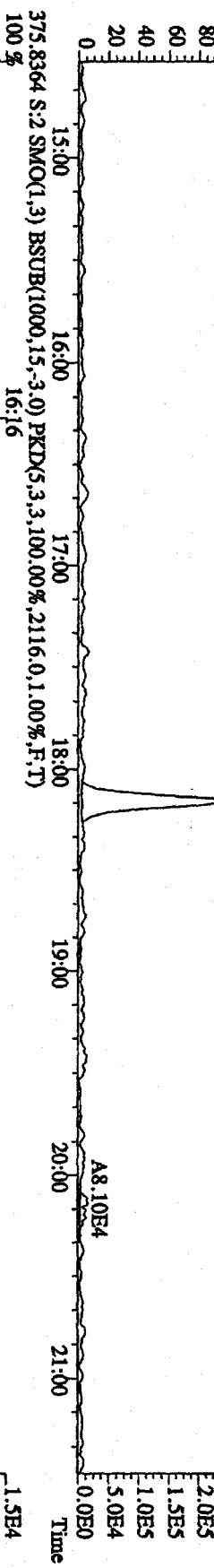
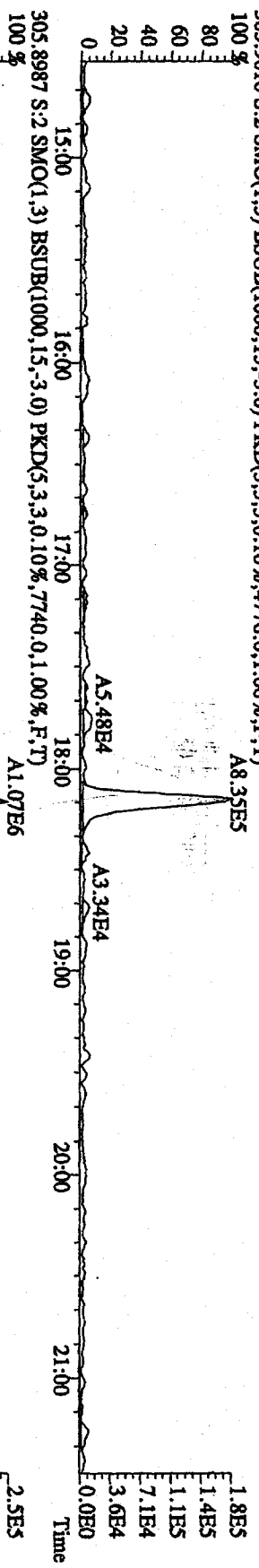
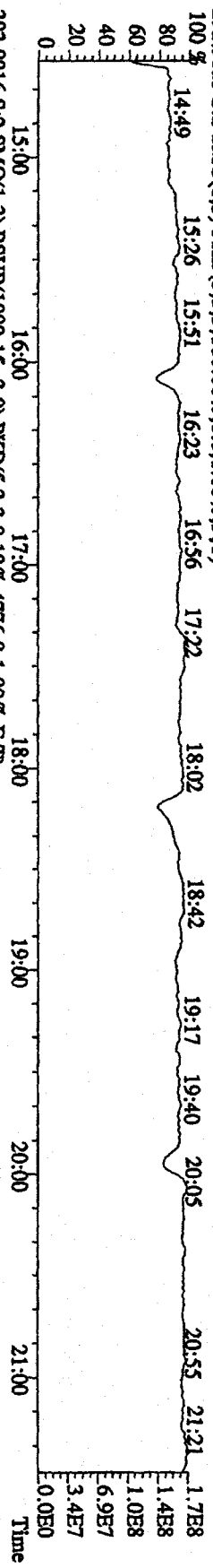
File:31DE09AIDS #1-161 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1231B :CS-1 09DDXN422 Exp:DIOXIN
 441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3.772,0.1,0.00%,F,T)



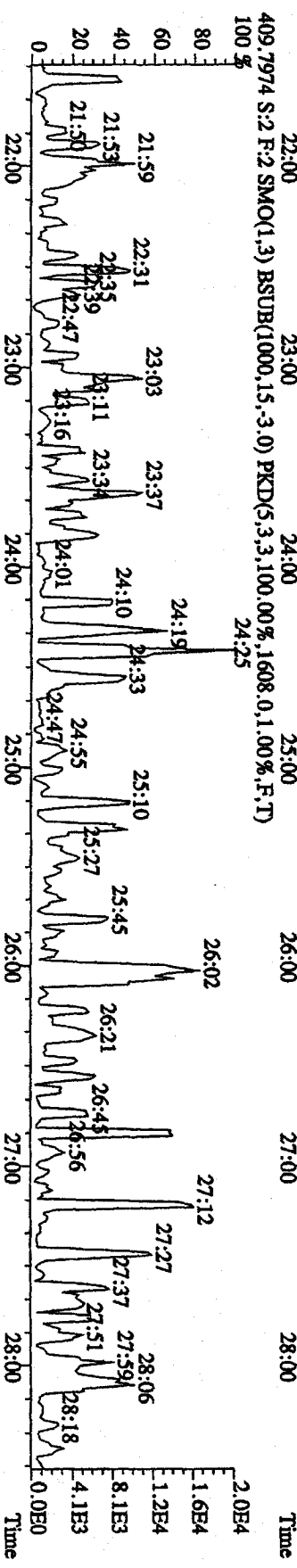
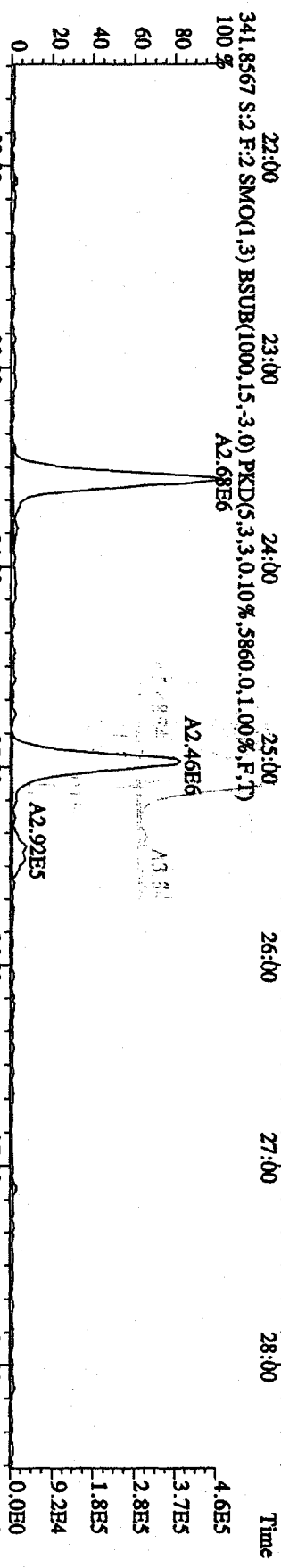
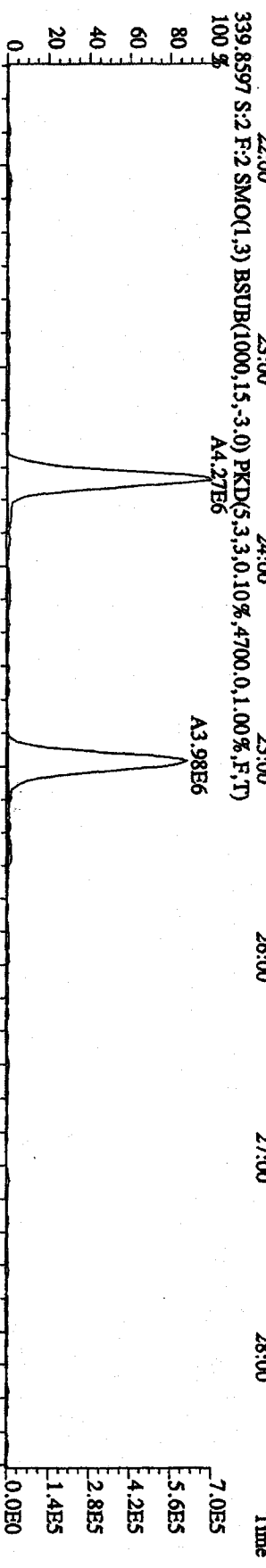
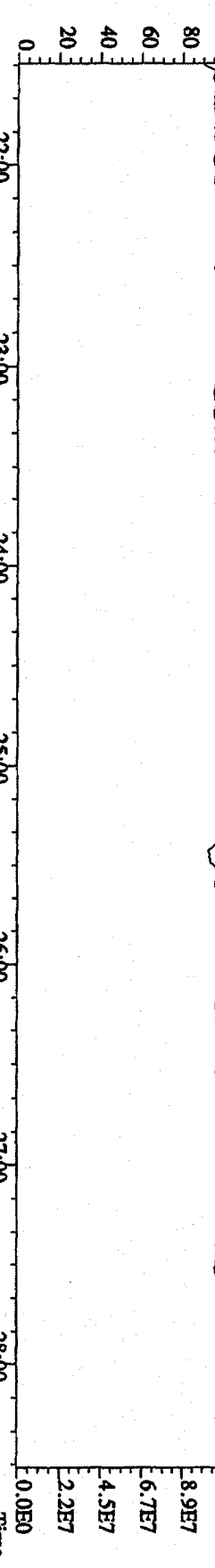
File:31DE09A1D5 #1-161 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1231B :CS-1 09DXN422 Exp:DIOXIN
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2760,0.1,00%,F,T)
 100 %



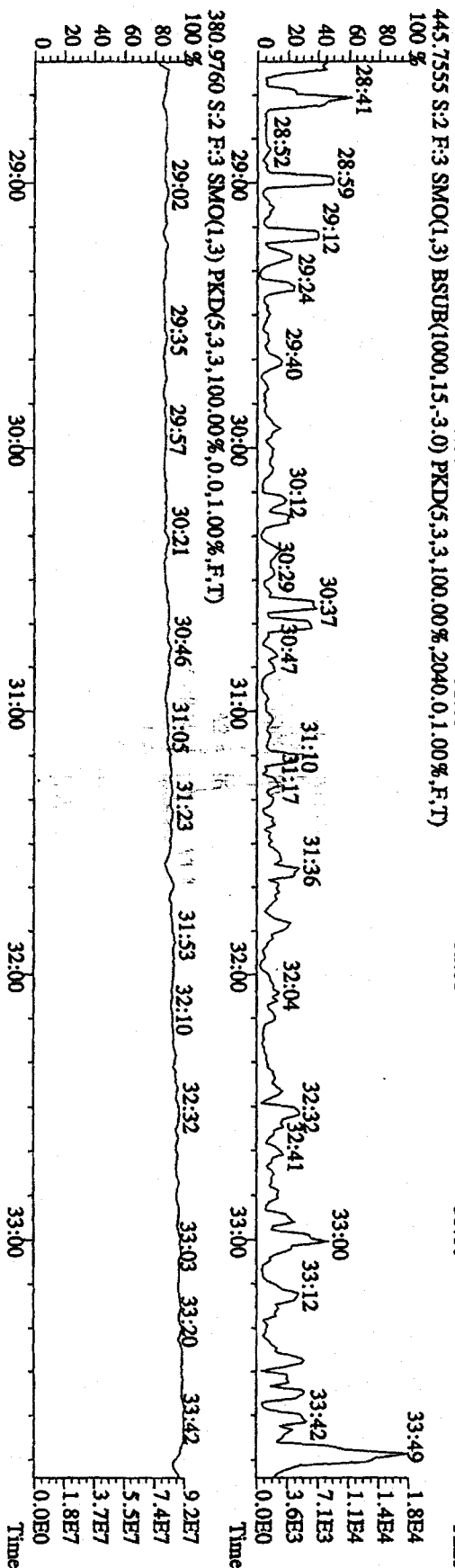
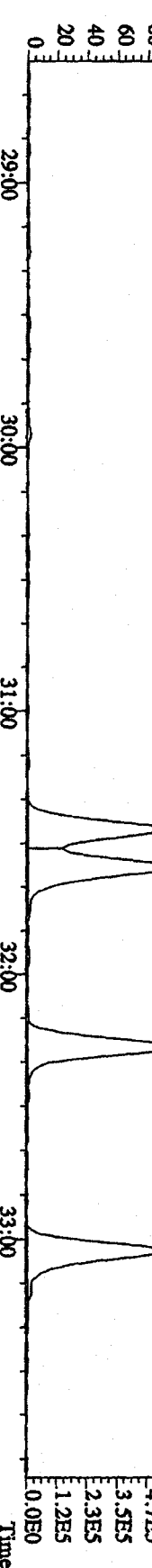
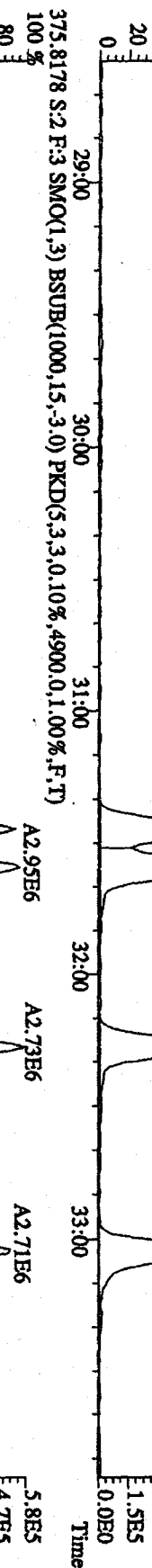
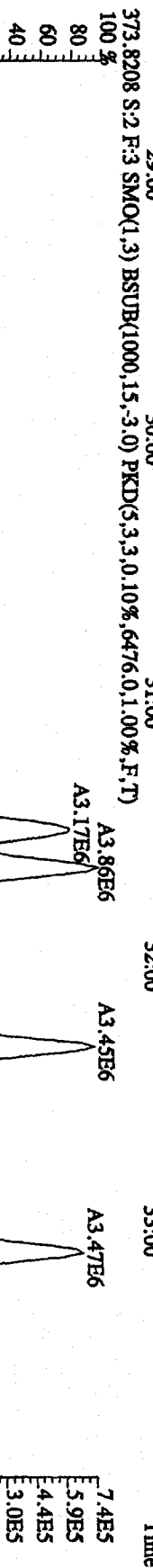
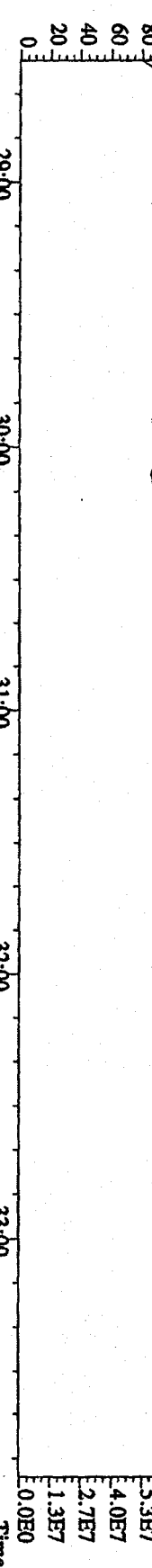
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 00:09:07 GC EI + Voltage SIR 70SE
 Sample#2 Text:ST1231B :CS-1 09DXN422 Exp:DIOXIN



File:31DE09A1D5 #1-495 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Tert:ST1231B :CS-1 09DXM422 Exp:DIOXIN
 342.9792 S:2 F:2 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 21:47 22:18 23:03 23:37 24:00 24:22 24:46 25:18 25:39 26:02 26:41 27:17 27:53



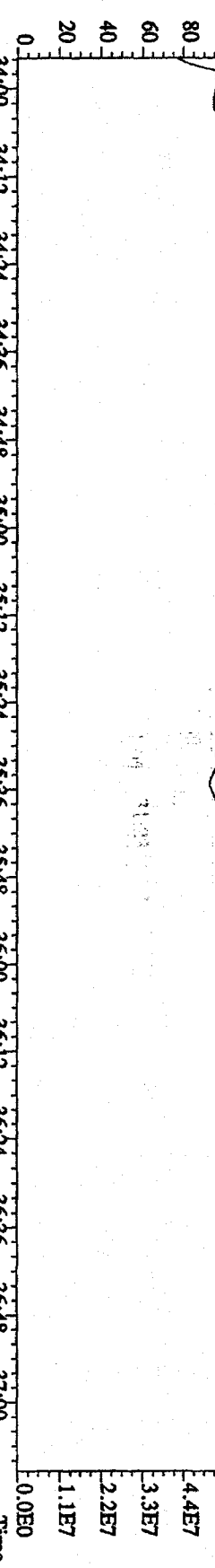
File:31DE09A1D5 #1-361 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1231B :CS-1-09DXN422 Exp:DIOXIN
 392.9760 S.2.F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 28:45 29:26 29:47 30:14 30:31 31:00 31:18 31:44 32:05 32:28 33:05 33:22 33:40



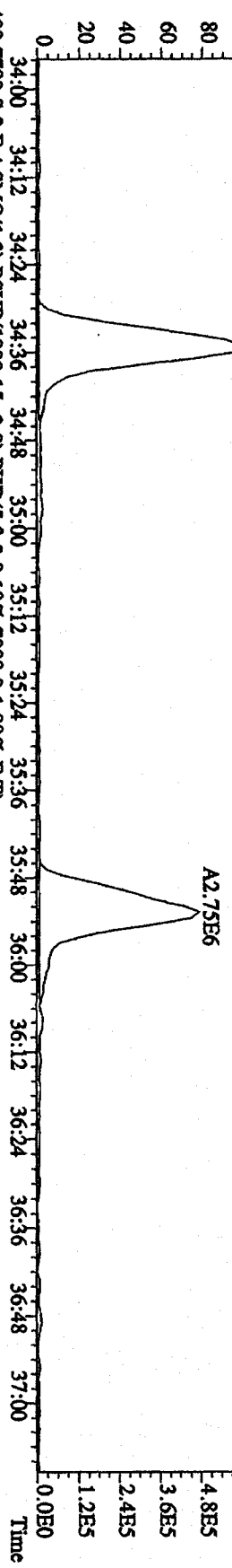
File: 31DE09A1D5 #1-228 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE

Sample#2 Text: ST1231B :CS-1 09DXN422 Exp: DIOXIN

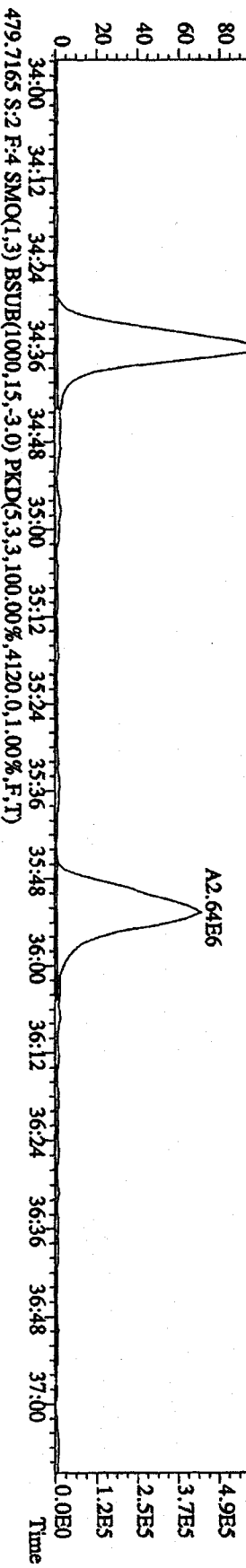
430.9728 S:2 F:4 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)



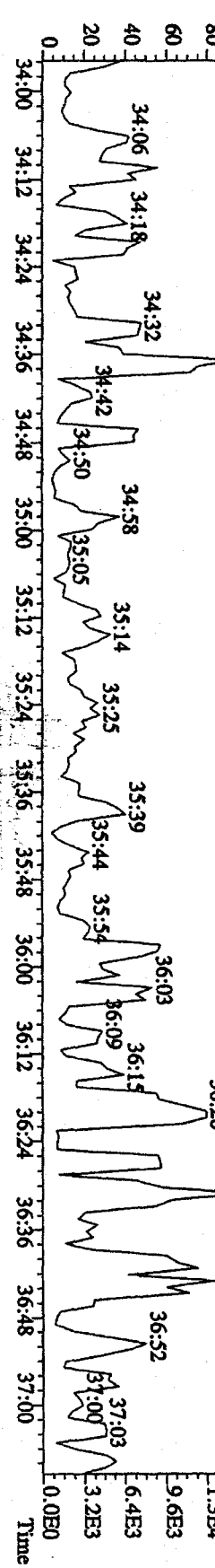
407.7818 S:2 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,7184.0,1.00%,F,T)



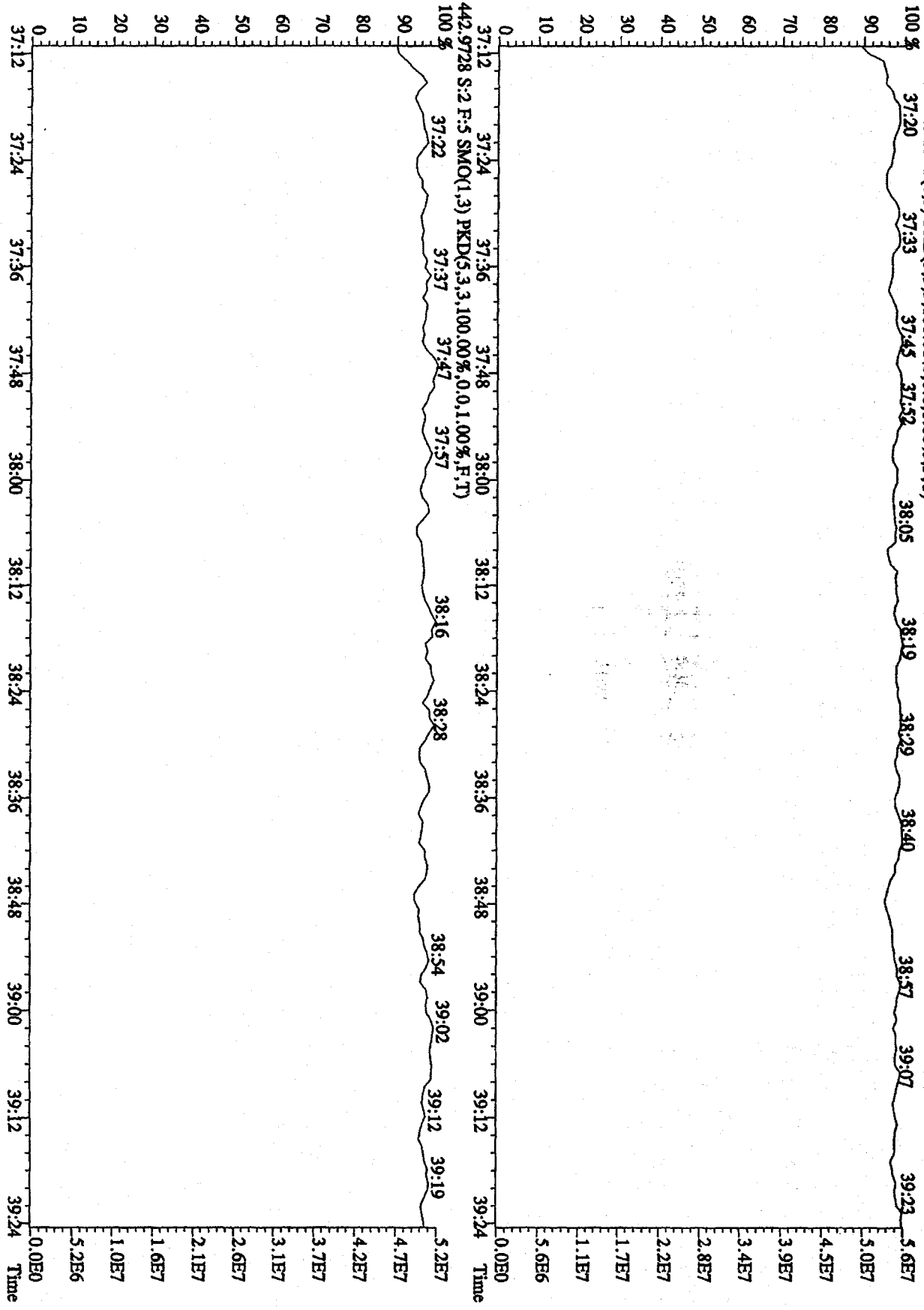
409.7789 S:2 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,7908.0,1.00%,F,T)



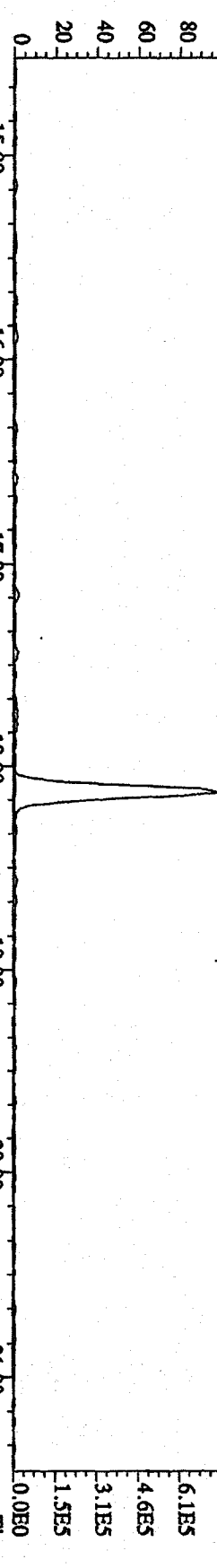
479.7165 S:2 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.100.00%,4120.0,1.00%,F,T)



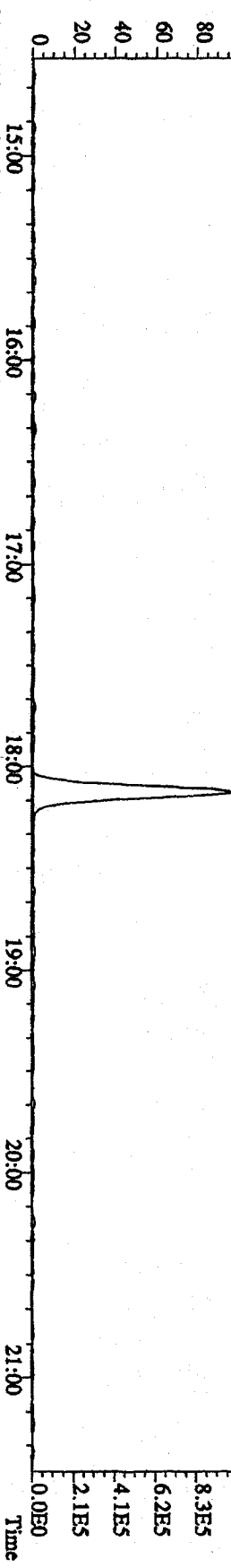
File:31DE09A1D5 #1-161 Acq: 1-JAN-2010 00:09:07 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1231B :CS-1 09DXN422 Exp:DIOXIN
 454 9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



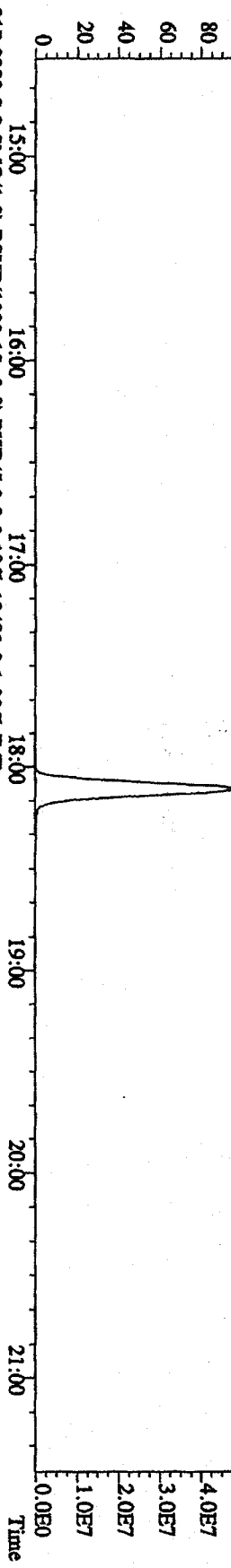
File:31DE09AID5 #1-411 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS-2 09DXN423 Exp:DIOXIN
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5052,0.1,00%,F,T) A3.39E6
 100 %



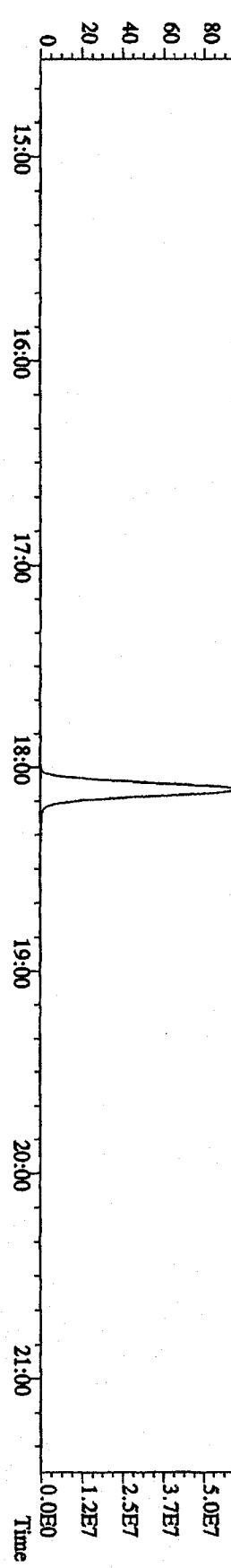
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6856,0.1,00%,F,T) A4.39E6
 100 %



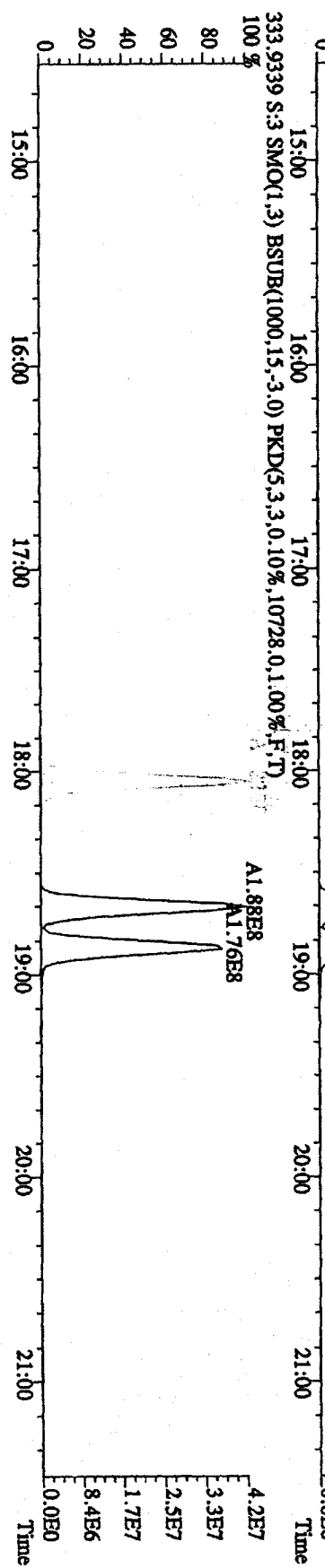
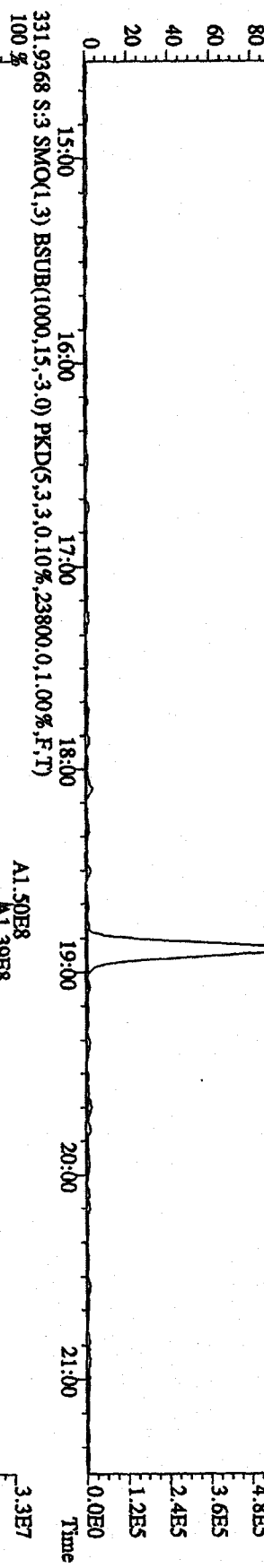
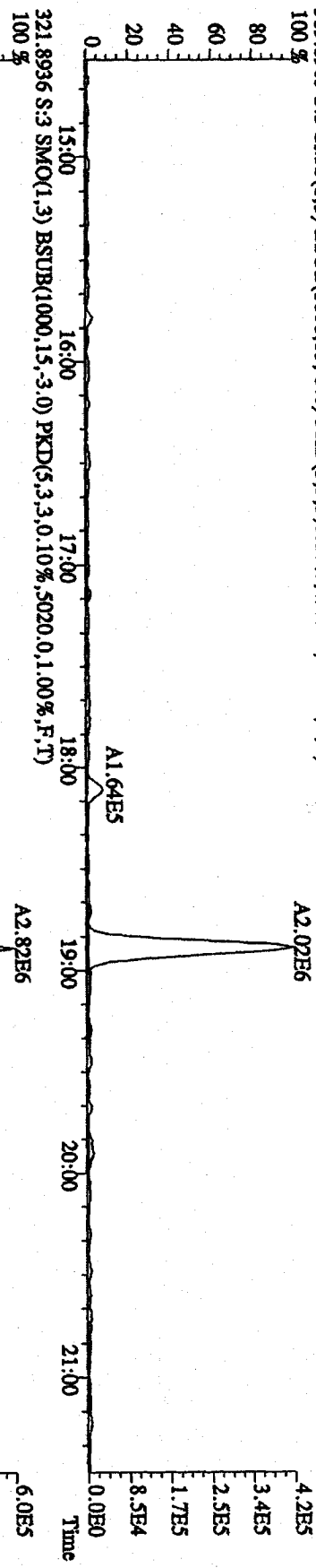
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15604,0.1,00%,F,T) A2.22E8
 100 %



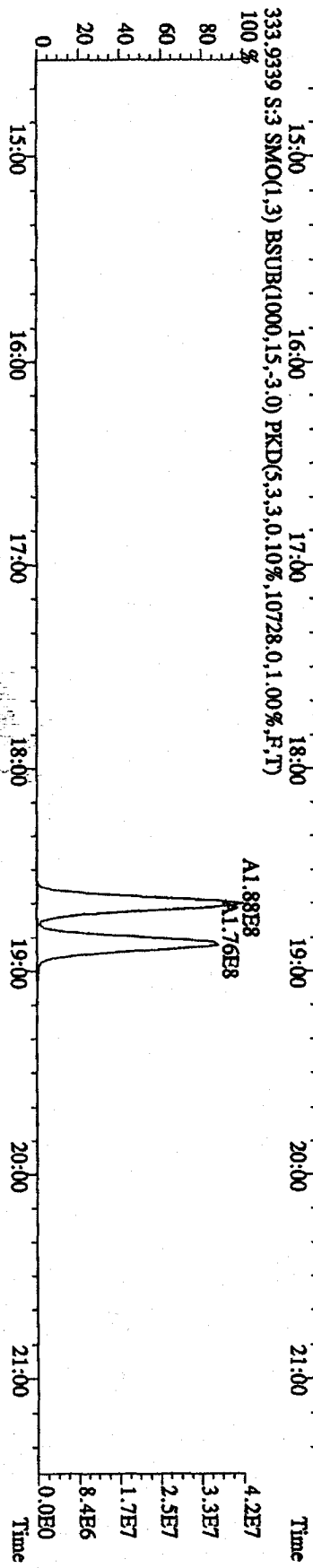
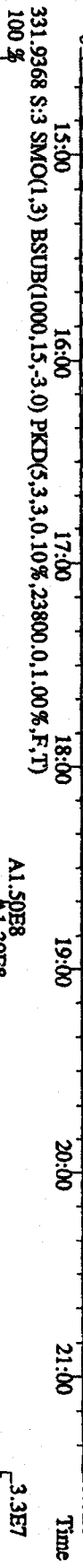
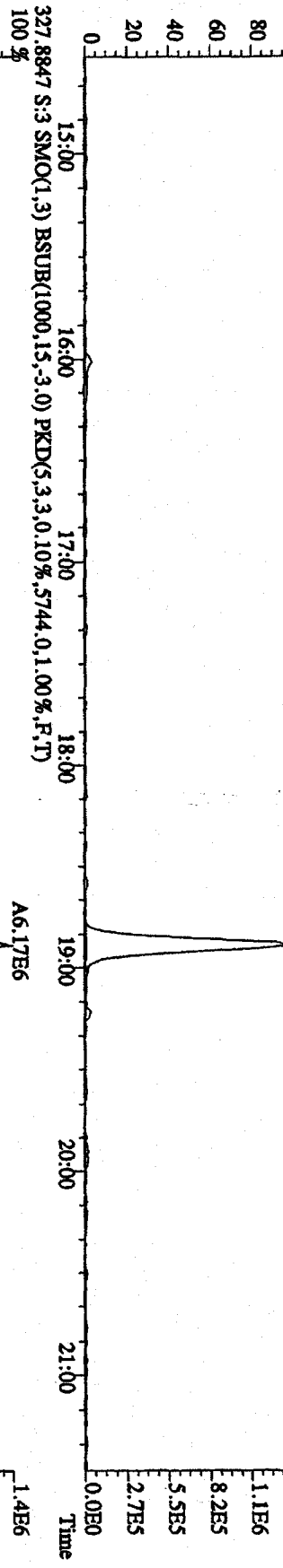
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,13492,0.1,00%,F,T) A2.79E8
 100 %



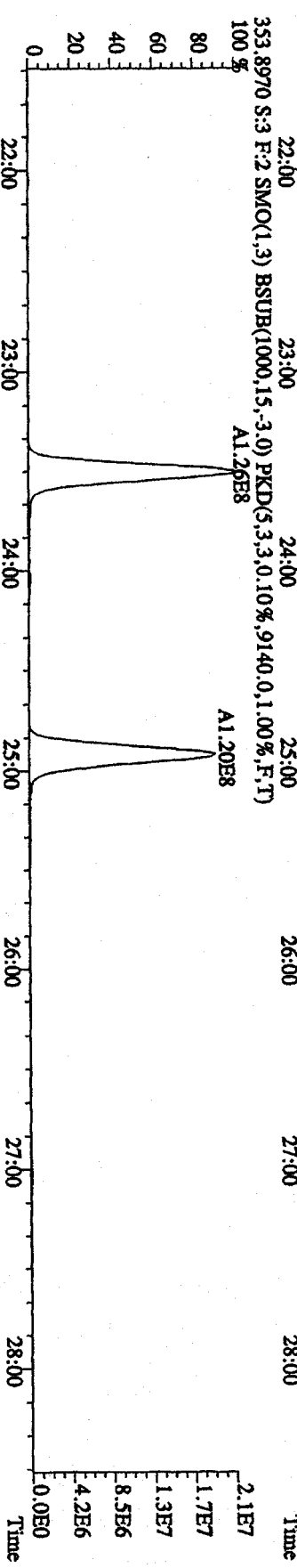
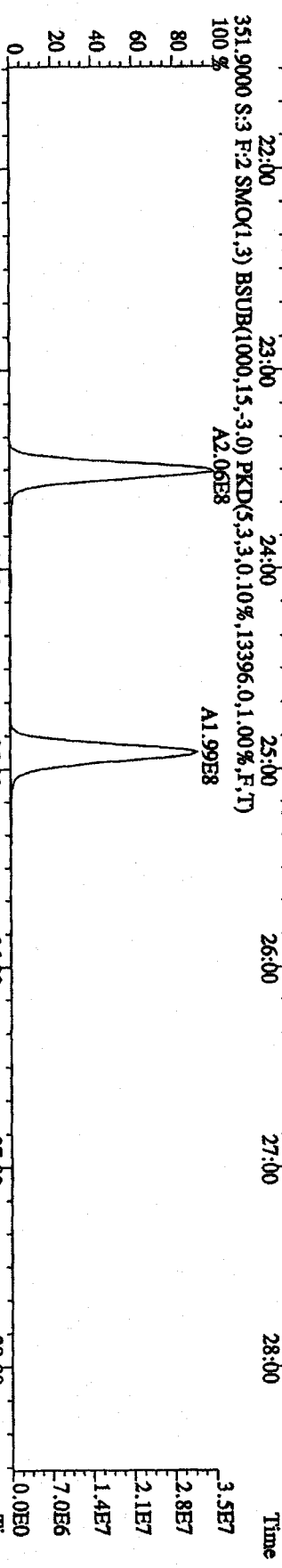
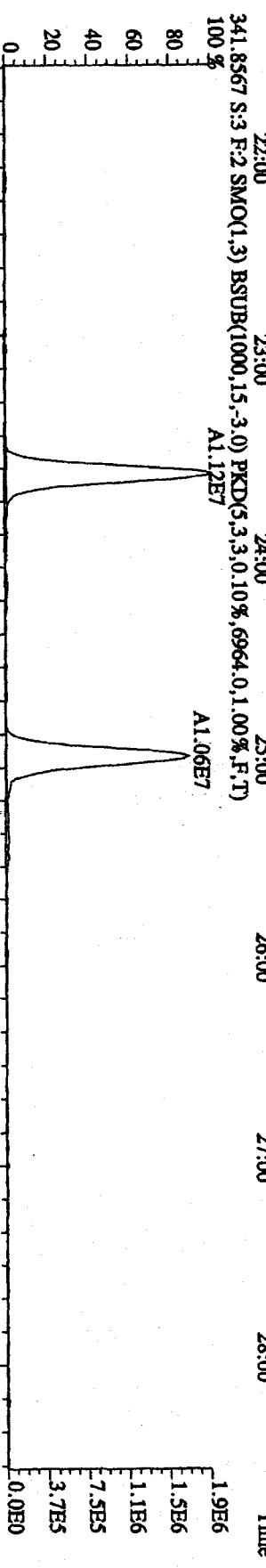
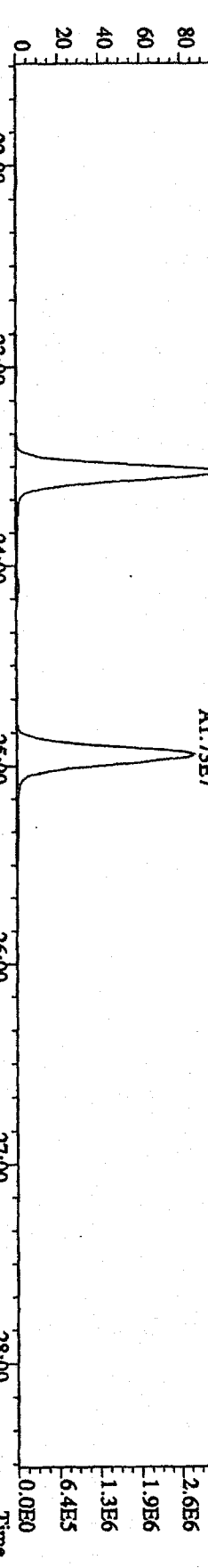
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 00:50:55 GC EI + Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS-2 09DXN423 Exp:DIOXIN
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4932,0,1,00%,F,T)



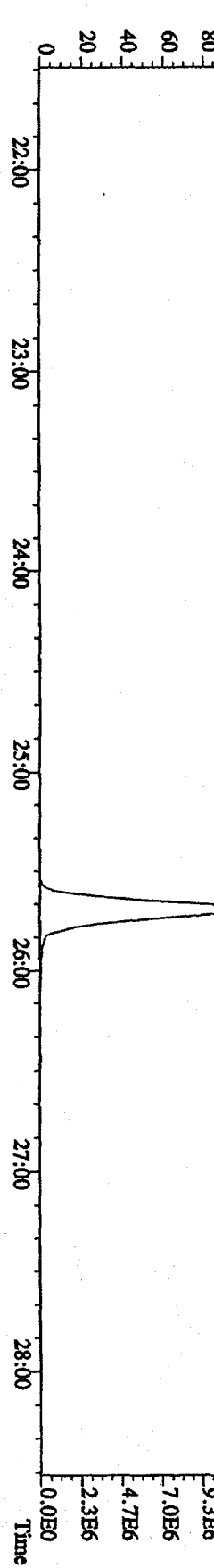
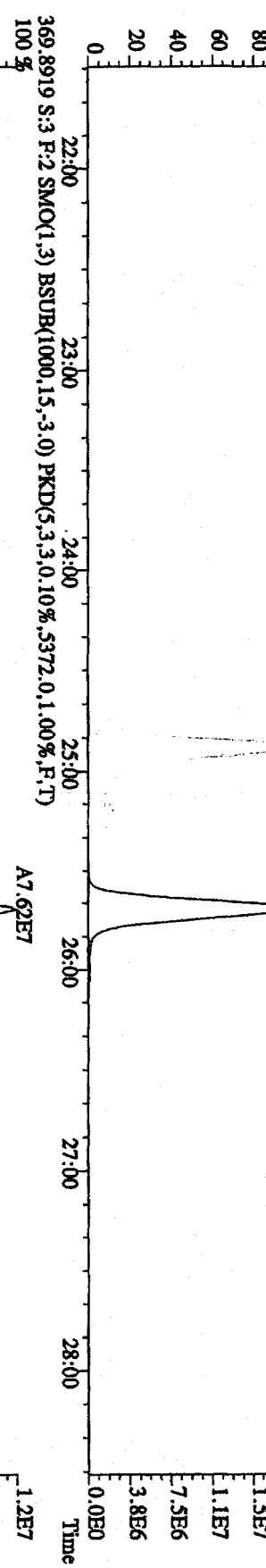
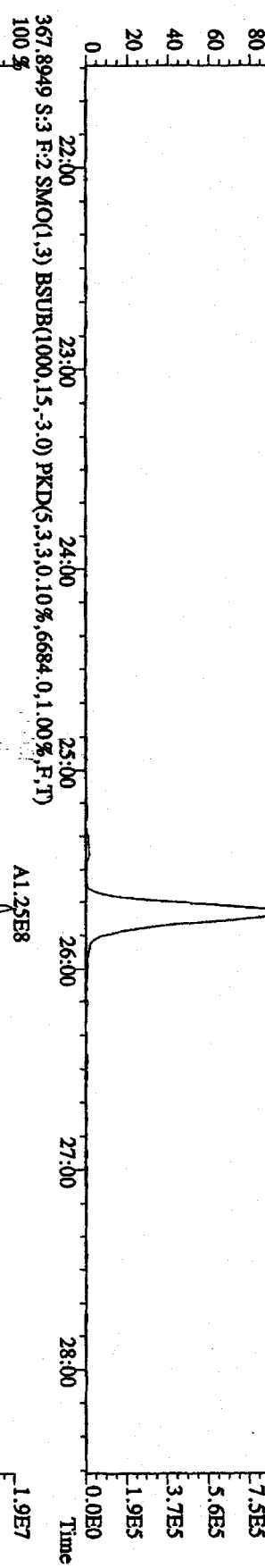
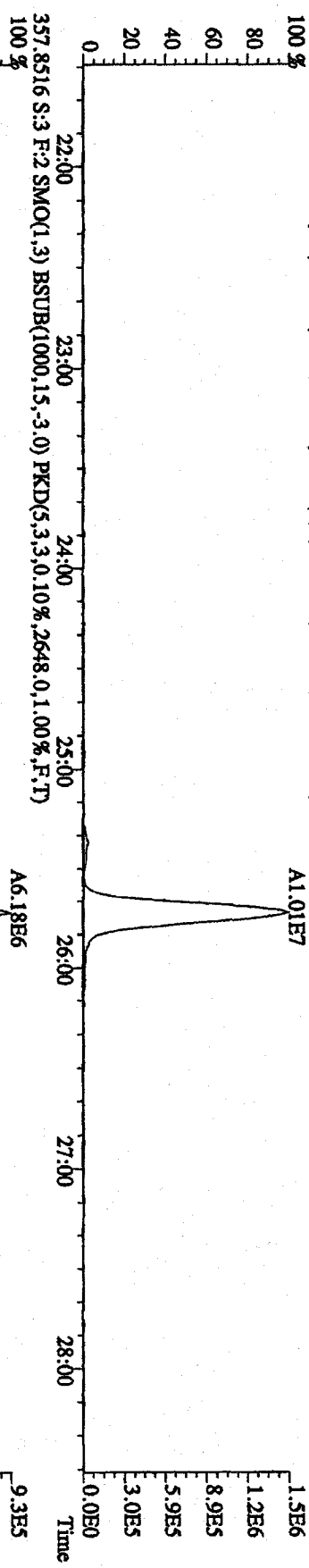
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS-2 09DXM423 Exp:DIOXIN
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5744,0.1,00%,F,T)
 100 %



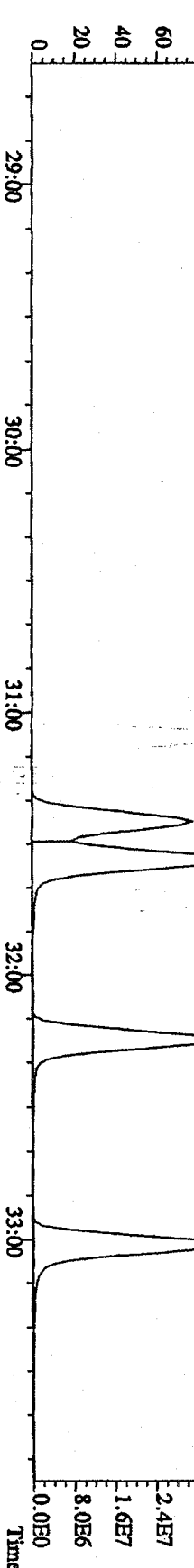
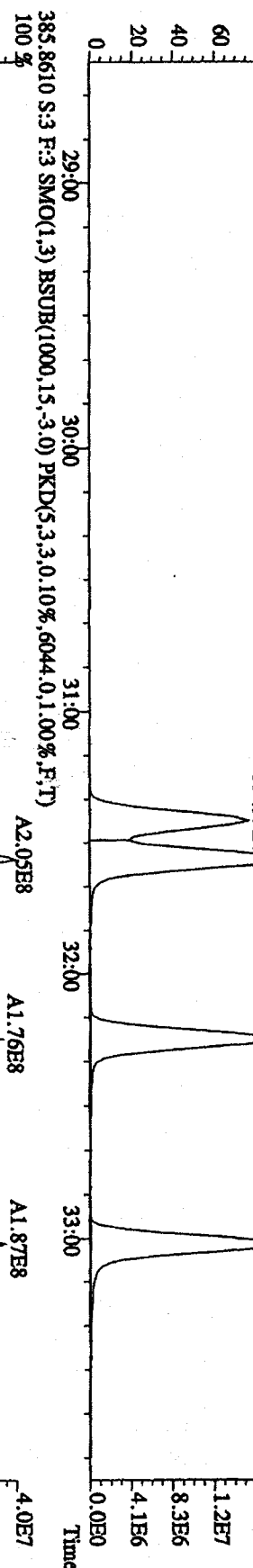
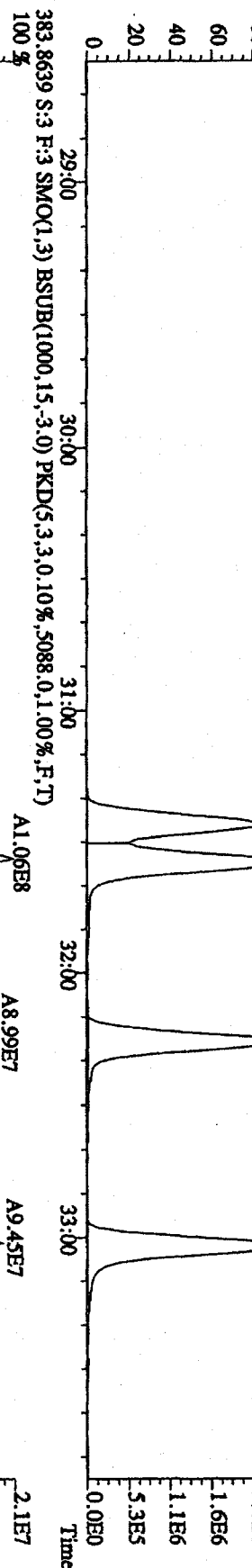
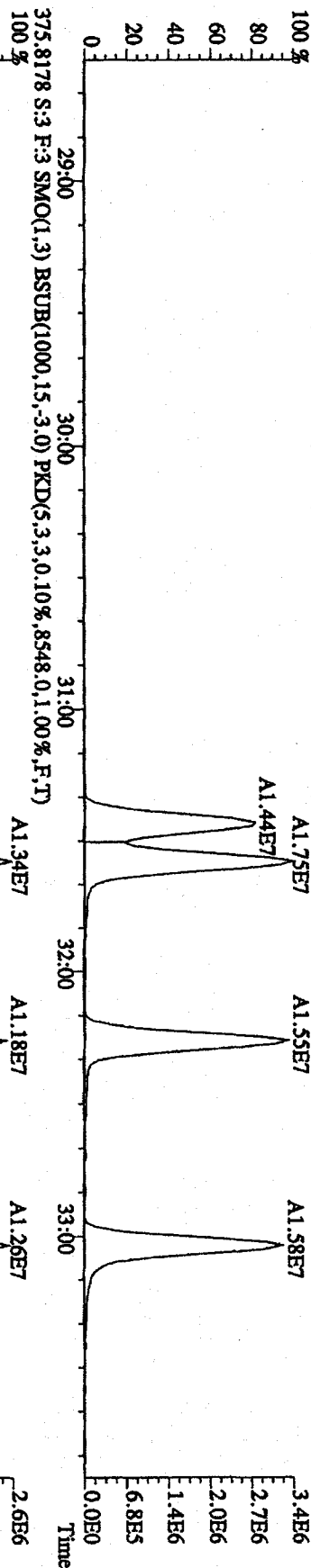
File: 31DE09A1D5 #1-495 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text: ST1231C :CS-2 09DXN423 Exp: DIOXIN
 339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,54964.0,1.00%,F,T)
 100 %



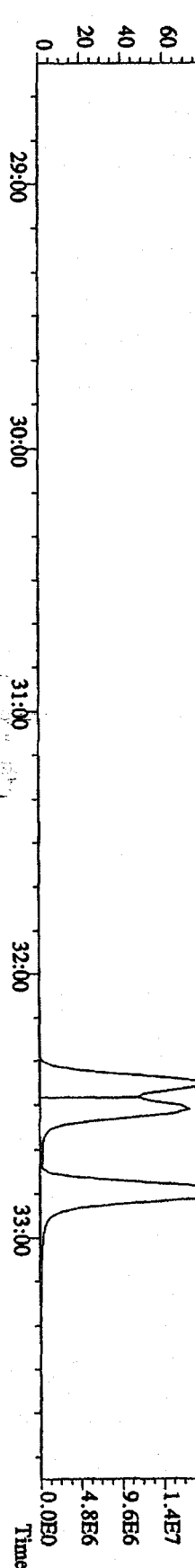
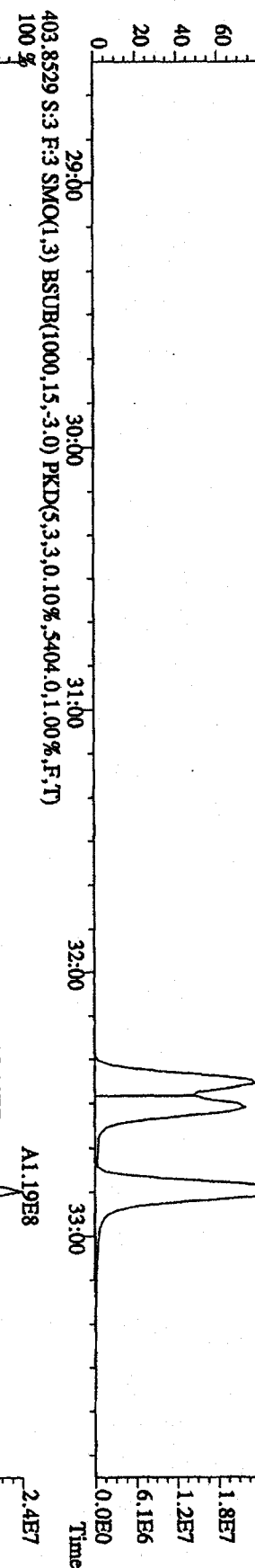
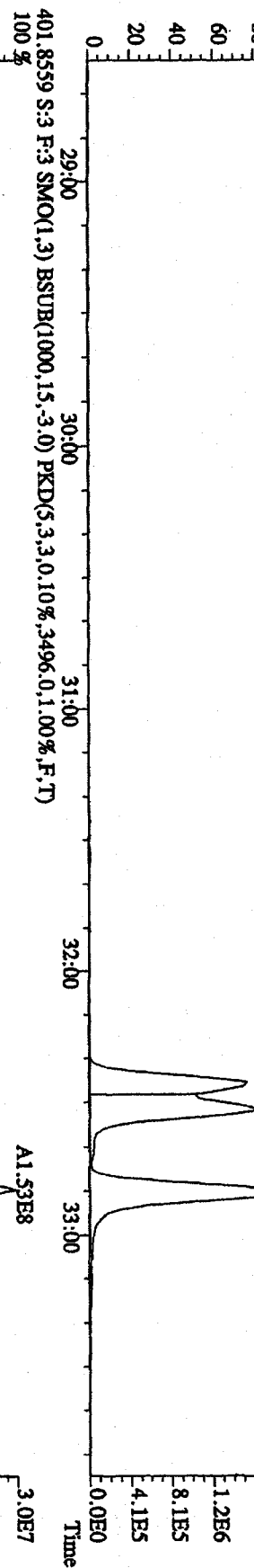
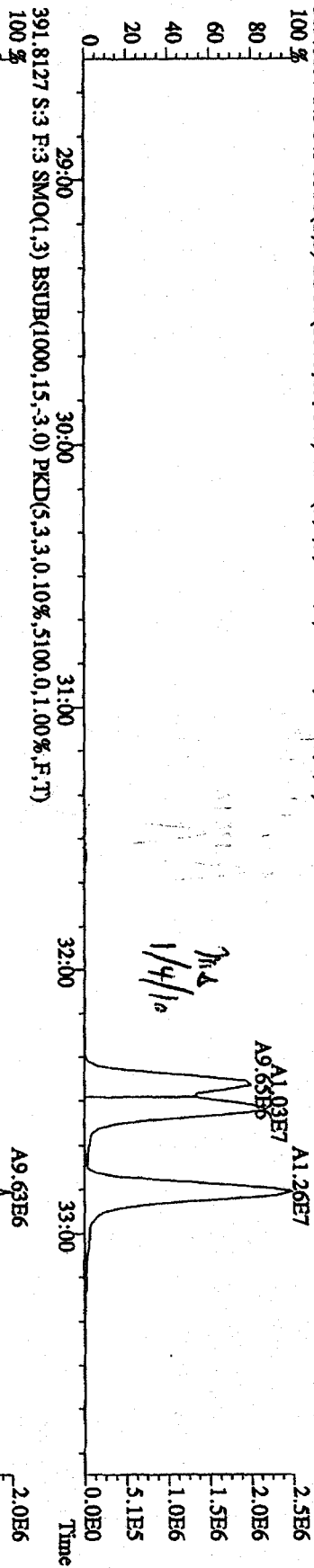
File:31DE09A1D5 #1-495 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS-2 09DXN423 Exp:DI0XIN
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5316,0,1,00%,F,T)
 100 %



File:31DE09AID5 #1-362 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS-2 09DXN423 Exp:DIOXIN
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9584,0,1,00%,F,T)
 100 %



File:31DE09AID5 #1-362 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS 2 09DXN423 Exp:DIOXIN
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4340,0,1,00%,F,T)
 100%



A1.19E8
 A1.19E8
 A1.19E8

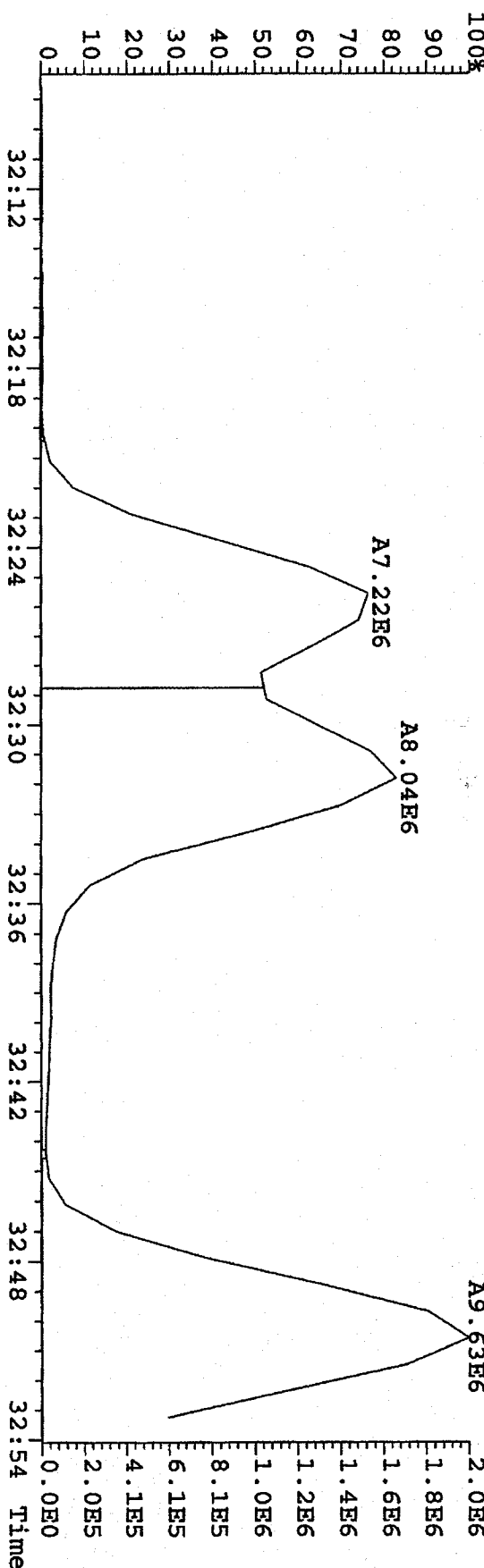
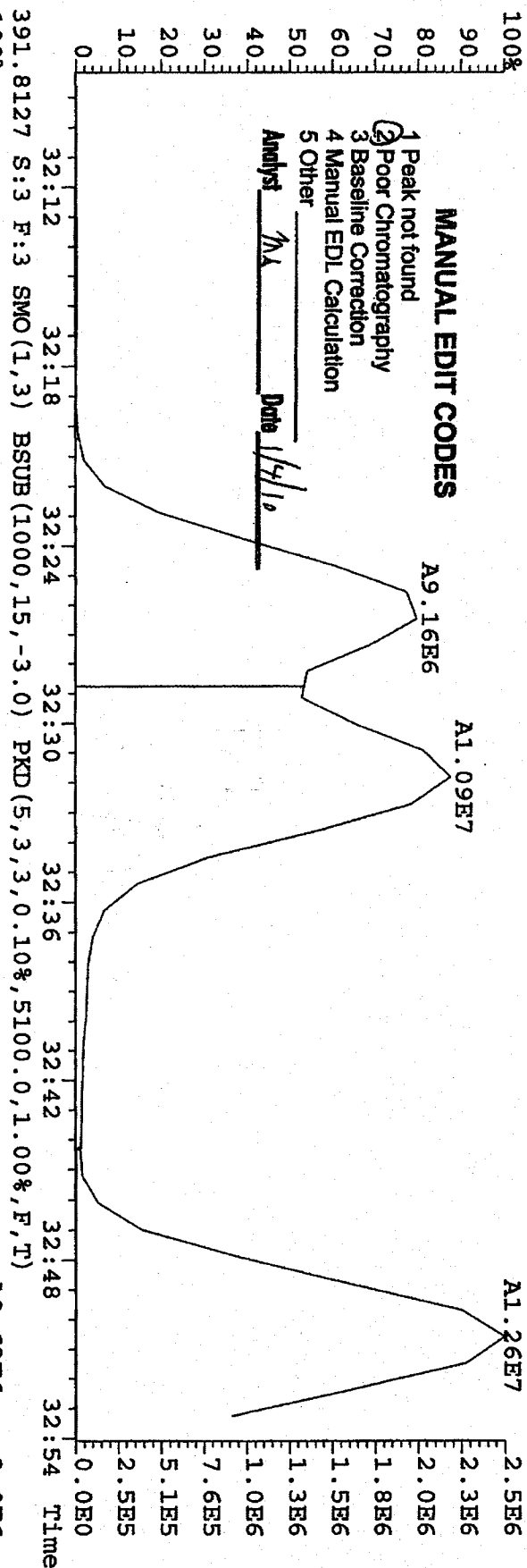
File: 31DE09AID5 #1-362 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text: ST1231C : CS-2 09DXN423 Exp: DIOXIN
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4340.0,1.00%,F,T)

MANUAL EDIT CODES

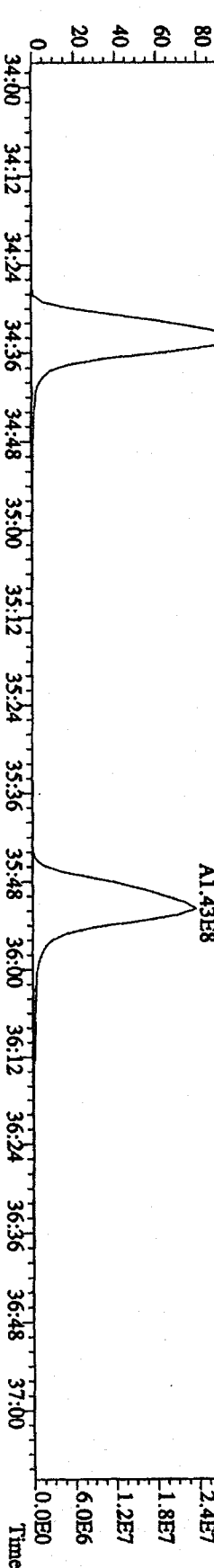
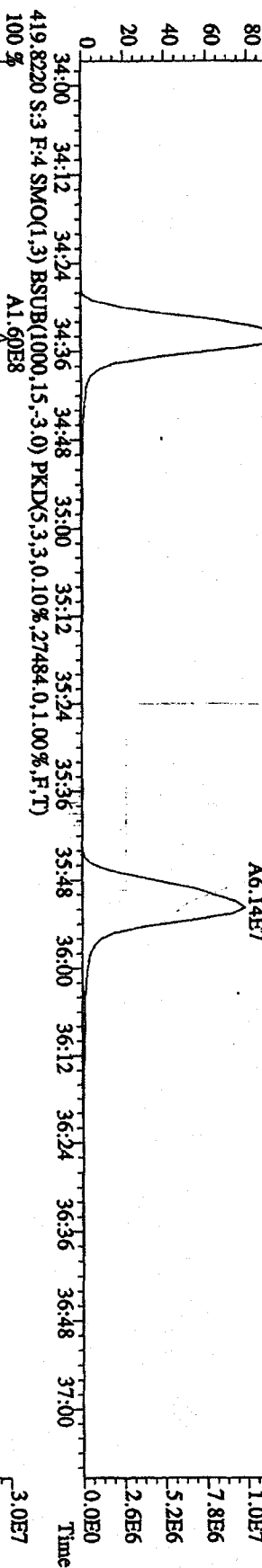
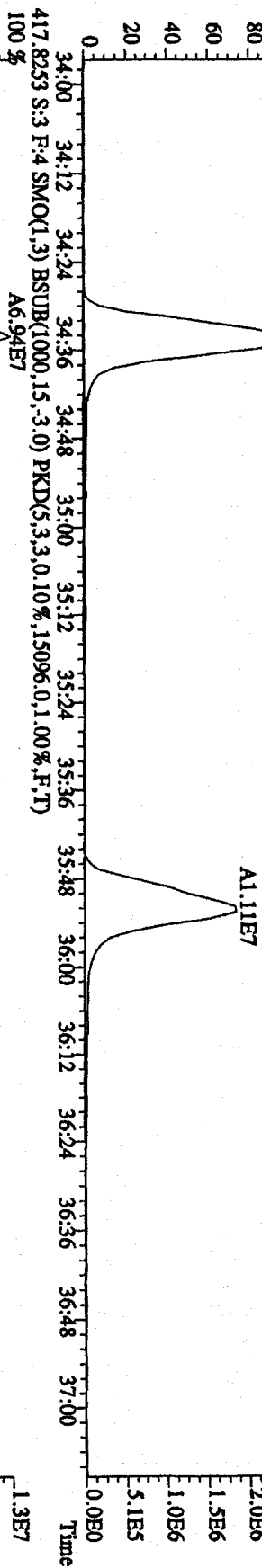
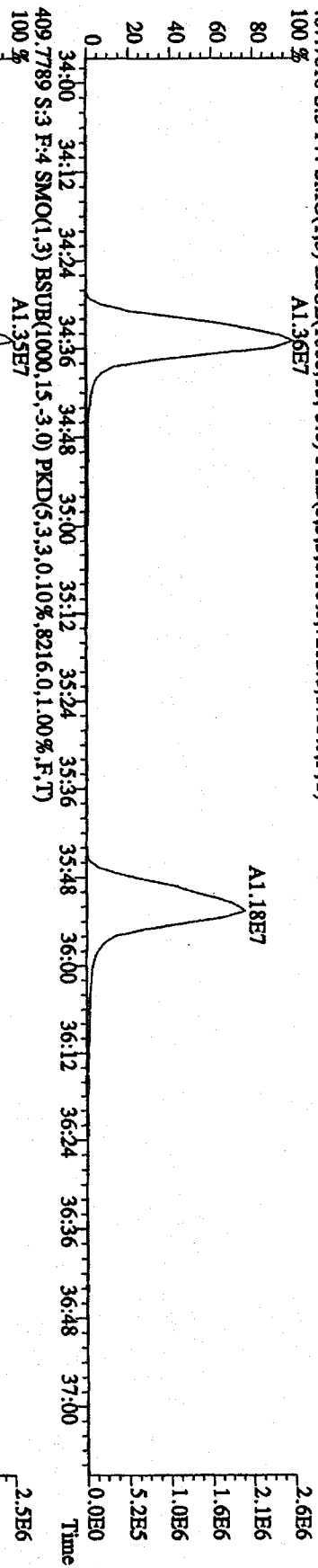
- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other

Analyst NA

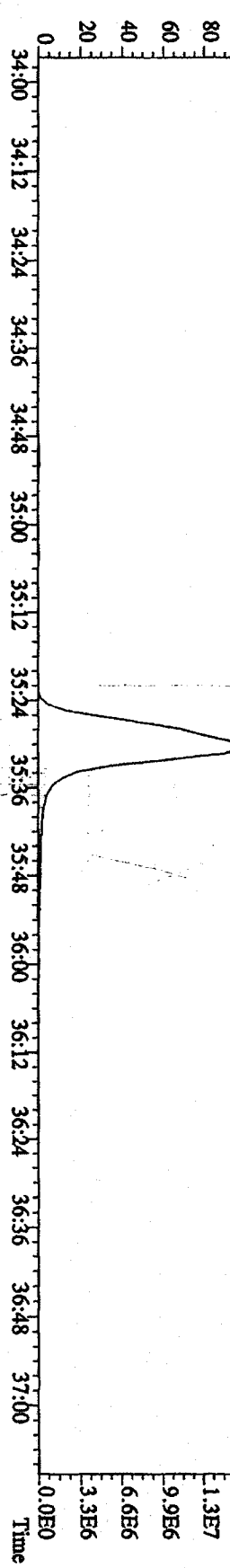
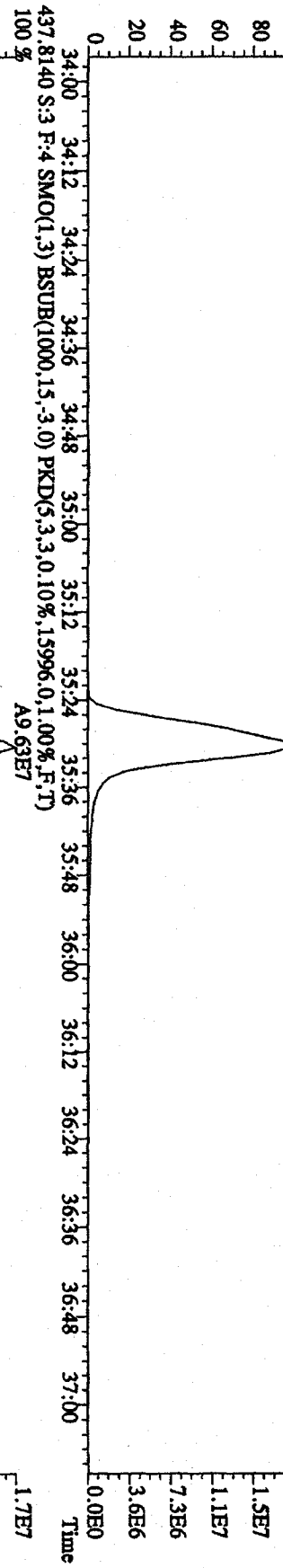
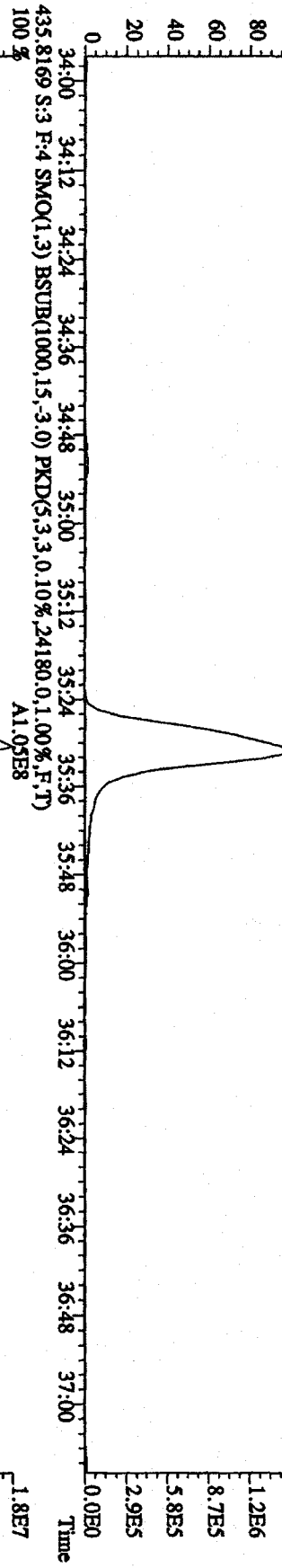
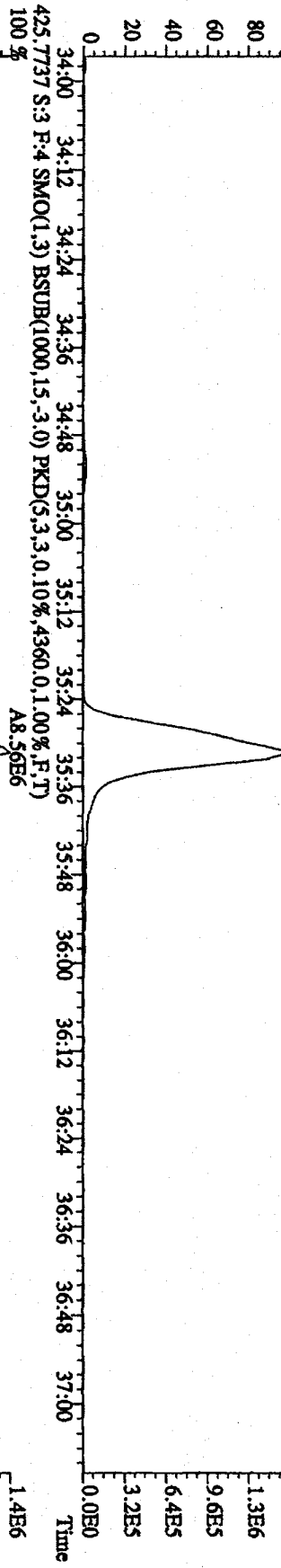
Date 1/7/10



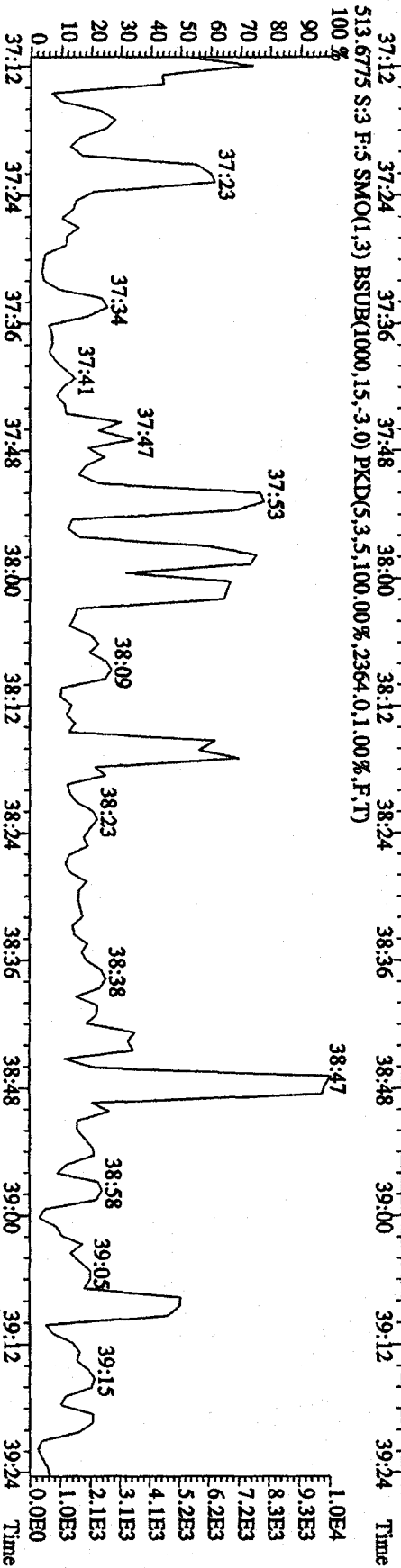
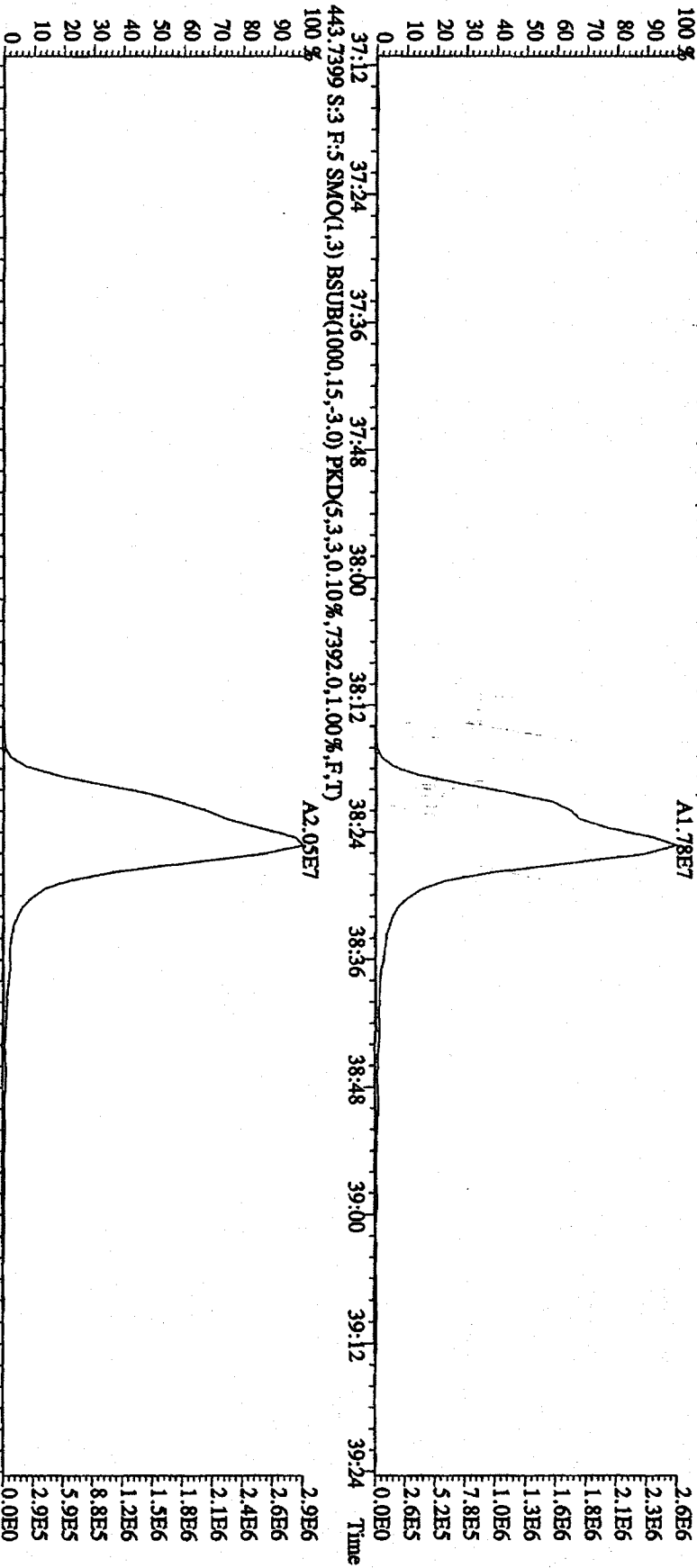
File:31DE09AID5 #1-227 Acq: 1:JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS-2 09DXN423 Exp:DIOXIN
 407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7212,0,1,00%,F,T)
 100 % A1.35E7



File:31DE09AID5 #1-227 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS-2 09DXM423 Exp:DI0XIN
 423.7766 S:3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,3908,0,1,100%,F,T)
 100 % A9.17E6



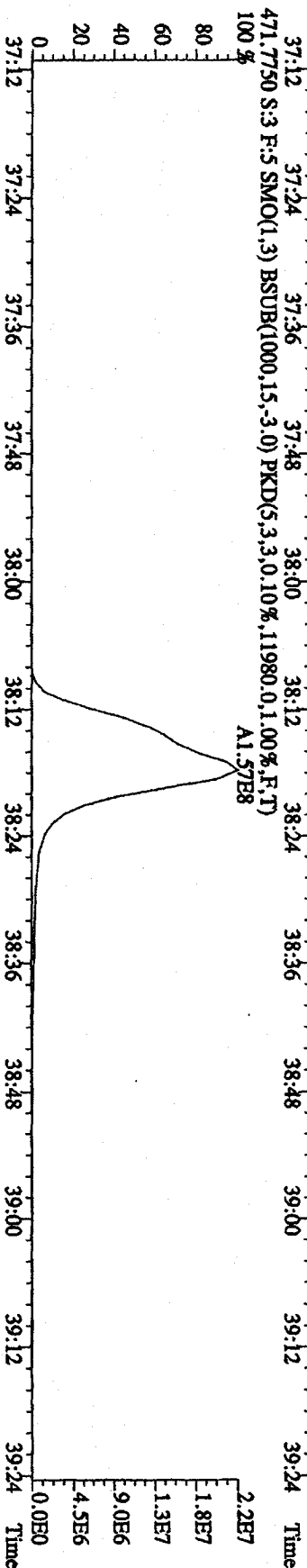
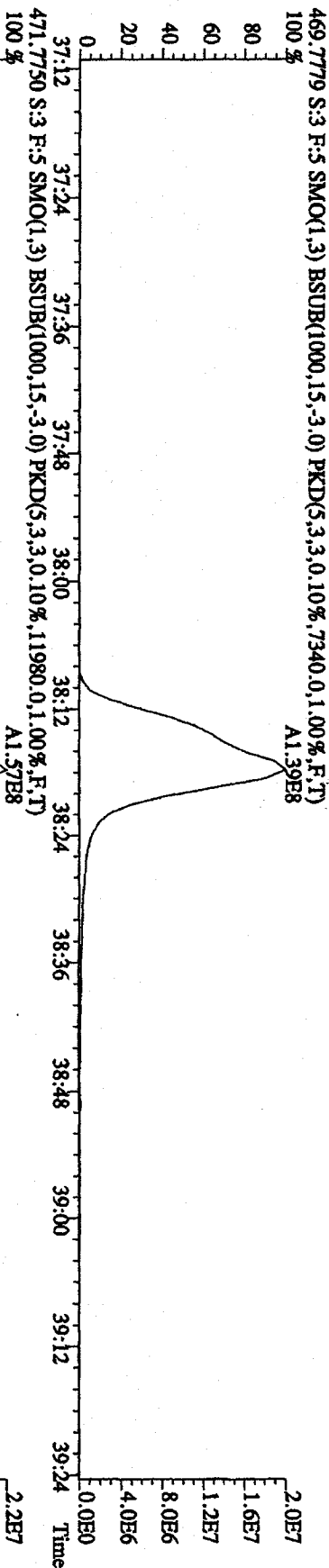
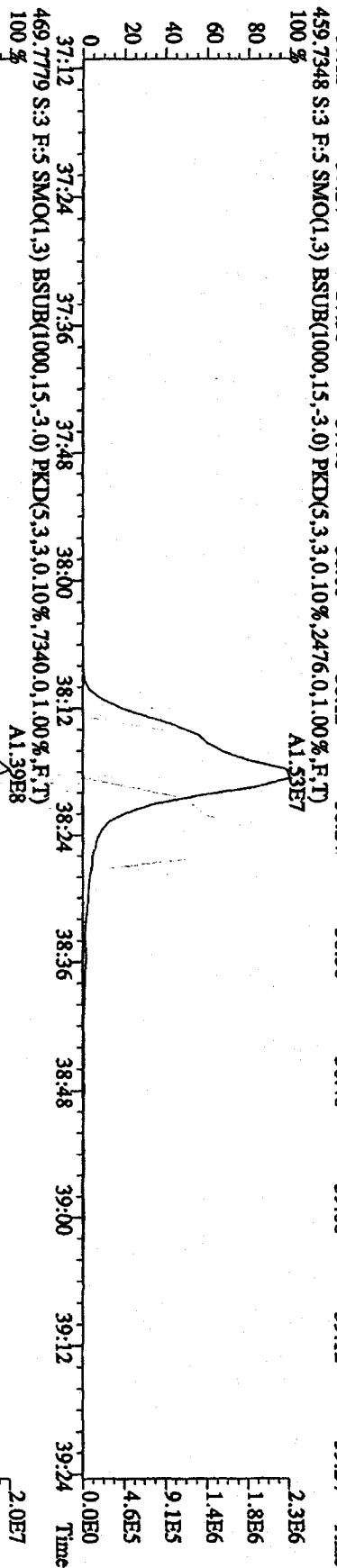
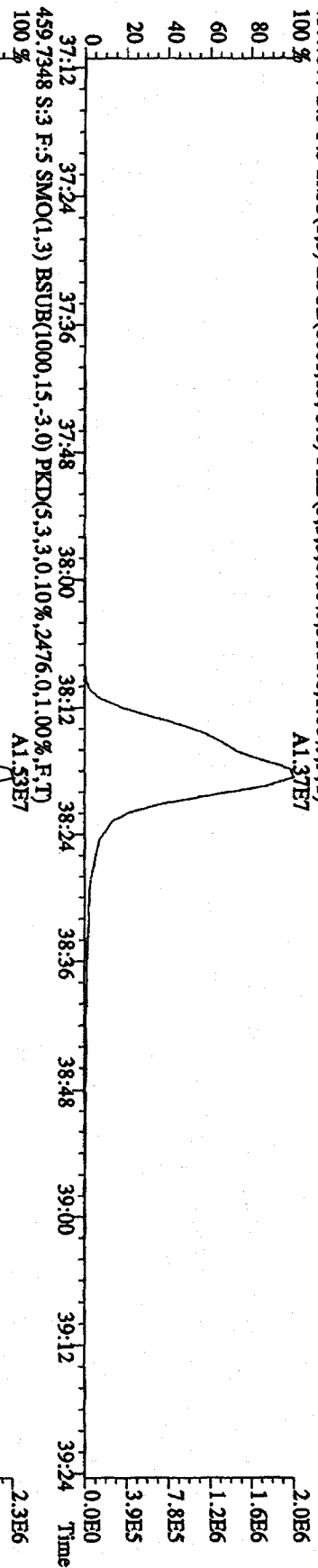
File:31DE09A1D5 #1-161 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS:2.09DDXN423 Exp:DIOXIN
 441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,.8956,0.1,00%,F,T)



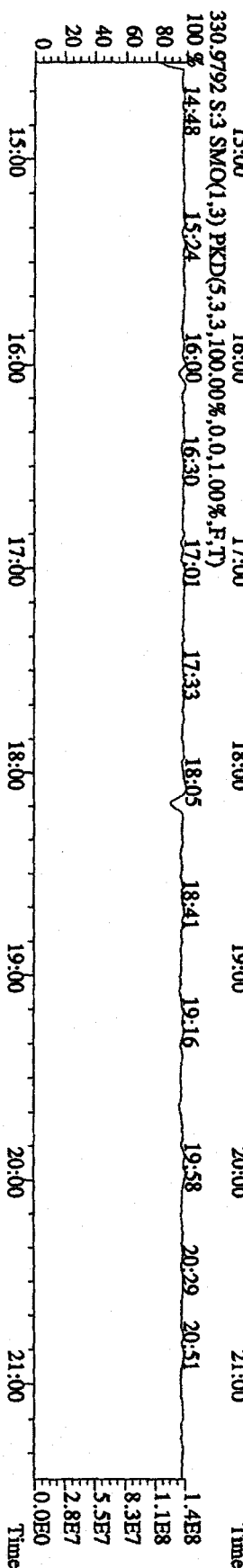
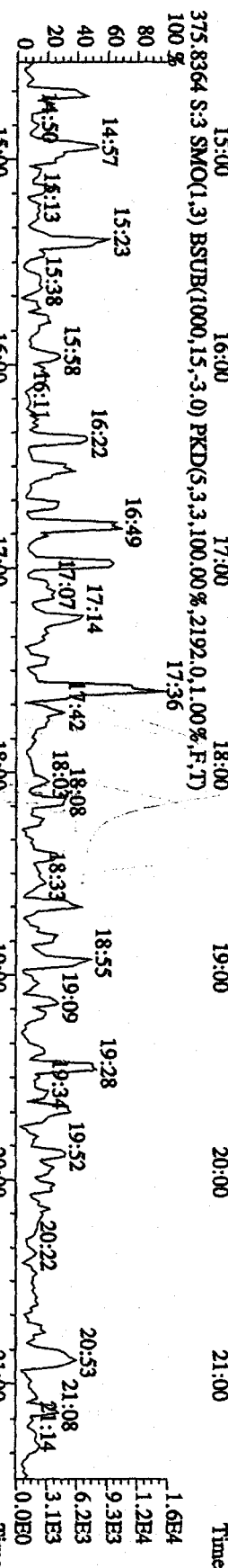
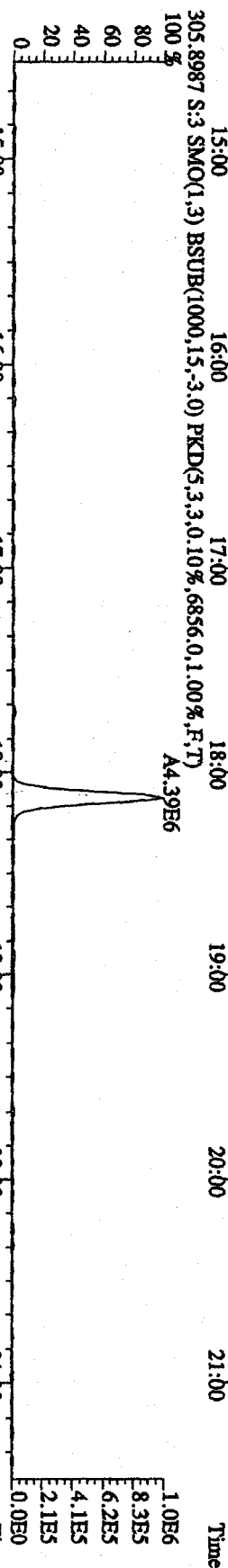
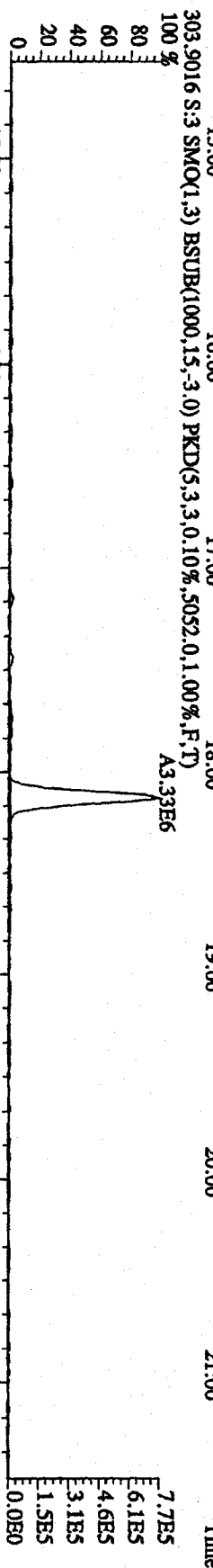
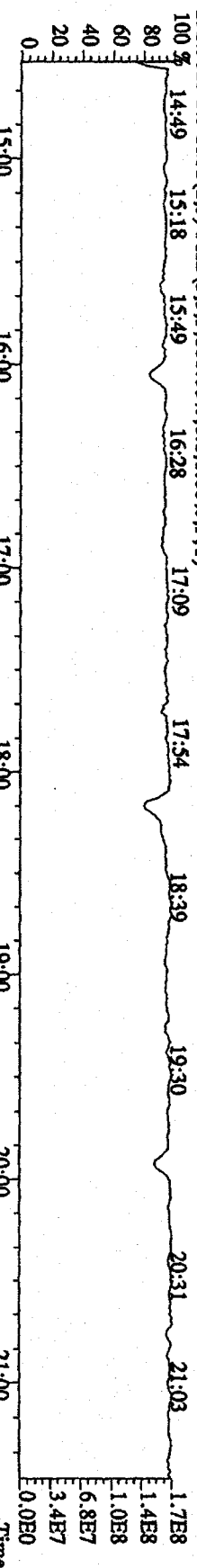
File:31DE09A1D5 #1-161 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE

Sample#3 Text:ST1231C :CS-2 09DDXN423 Exp:DIOXIN

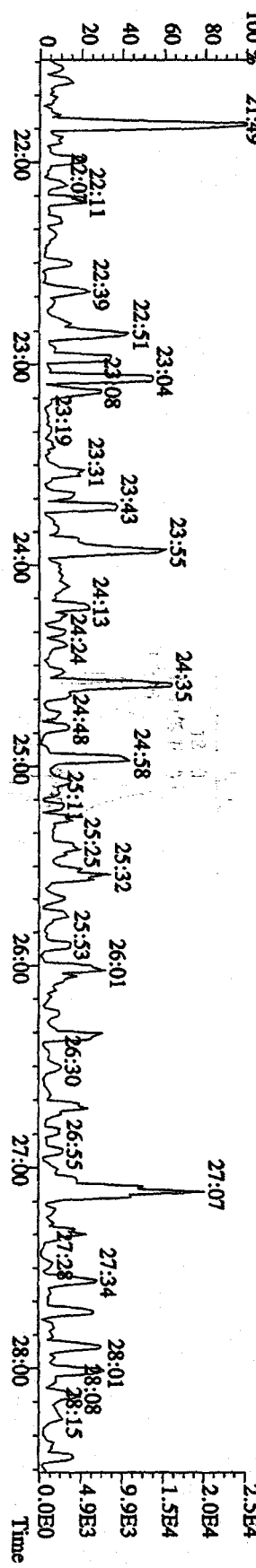
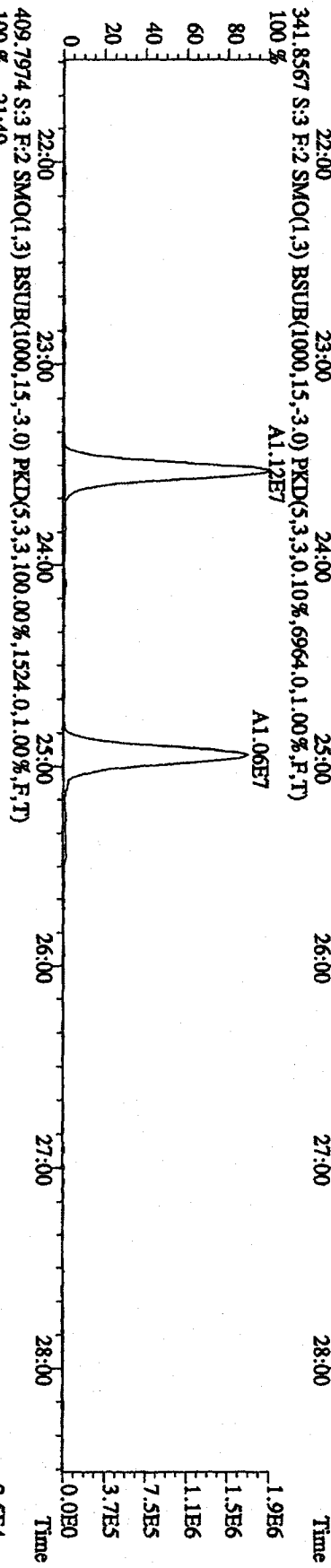
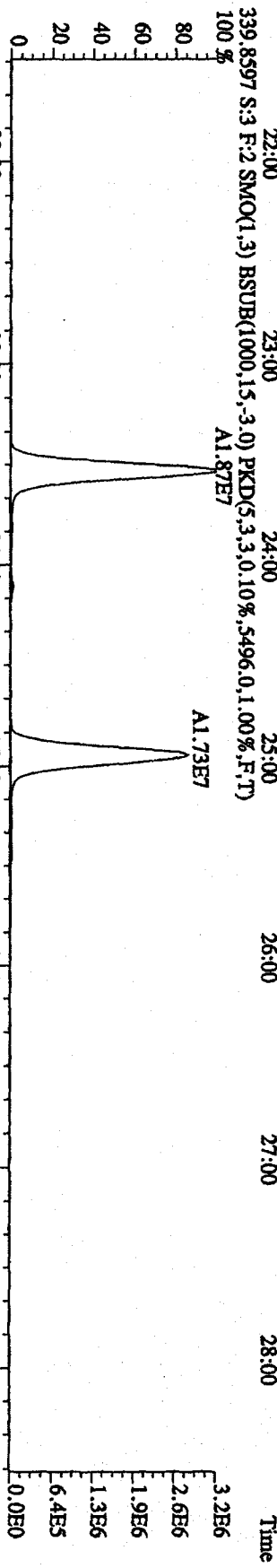
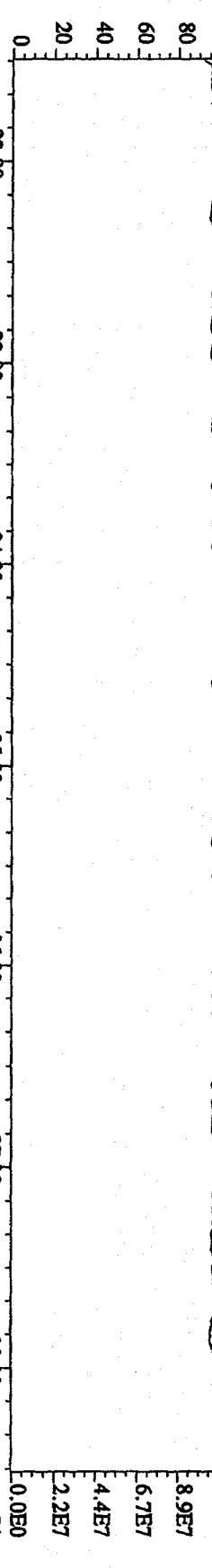
457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.5116,0,1.00%,F,T) 100% A1.37E7



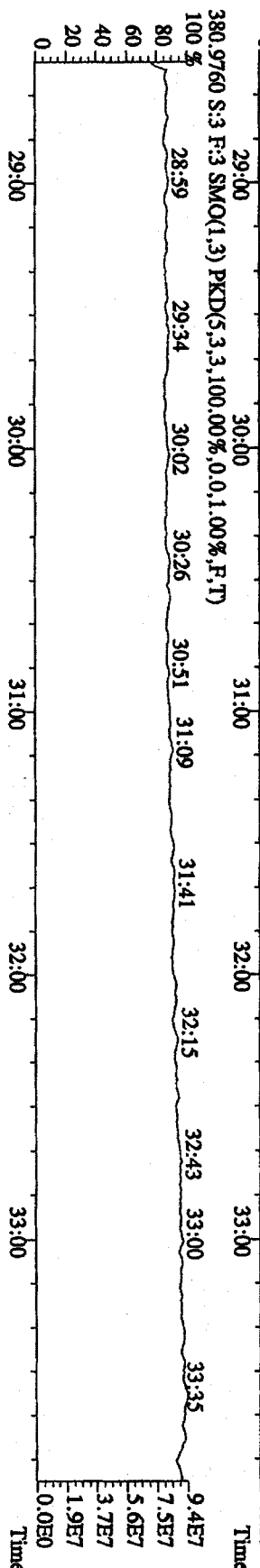
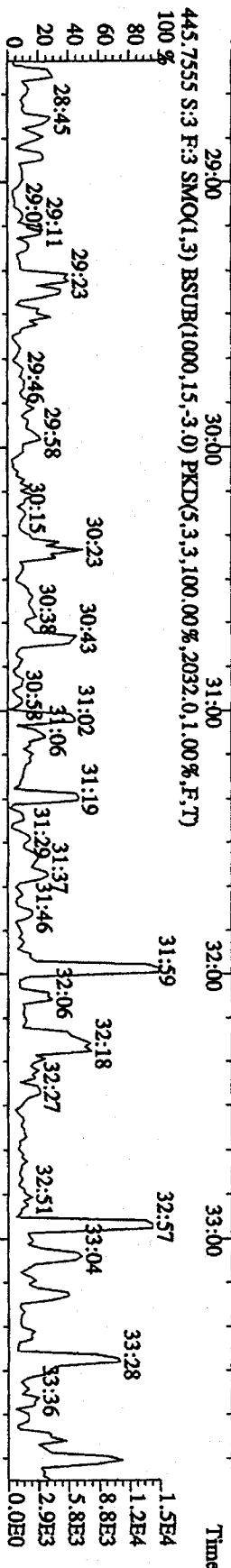
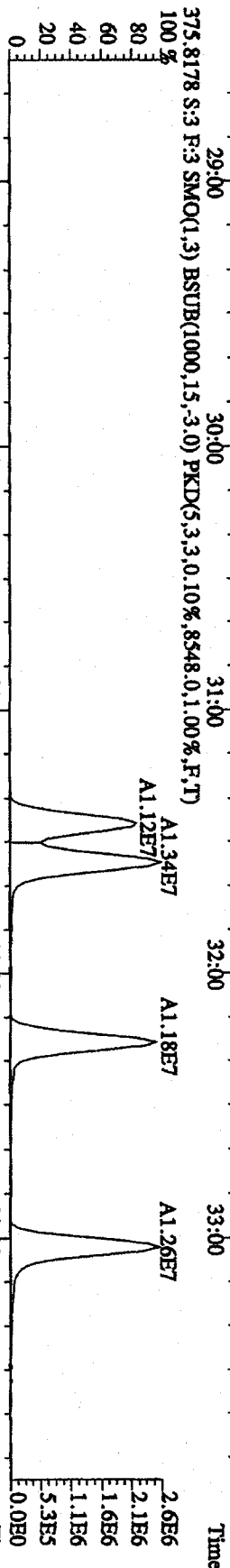
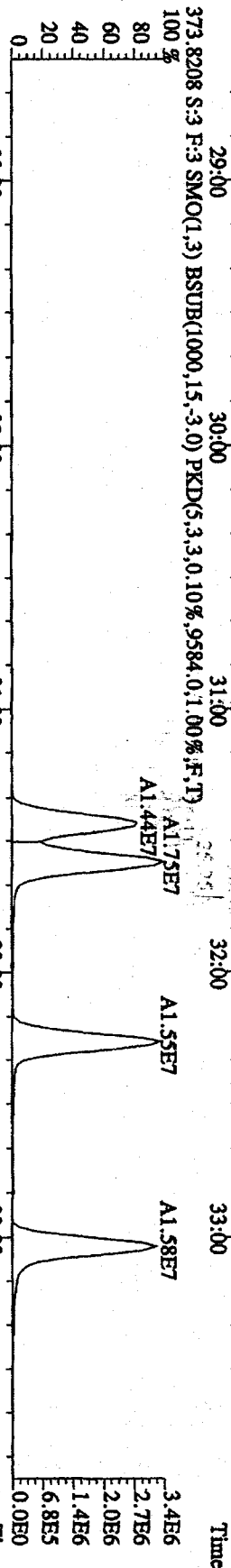
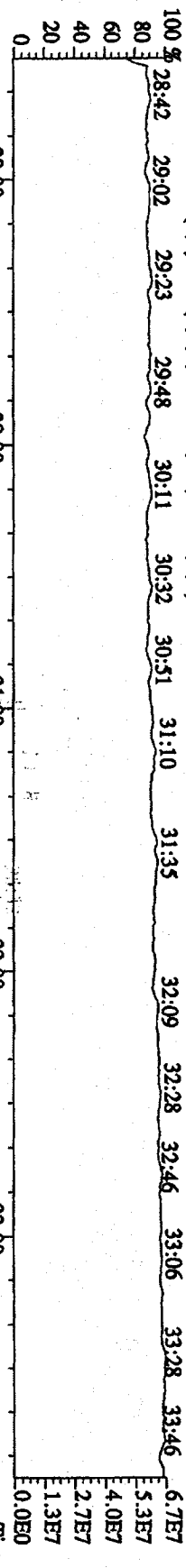
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS-2 09DXN423 Exp:DIOXIN
 292.9825 S:3 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)



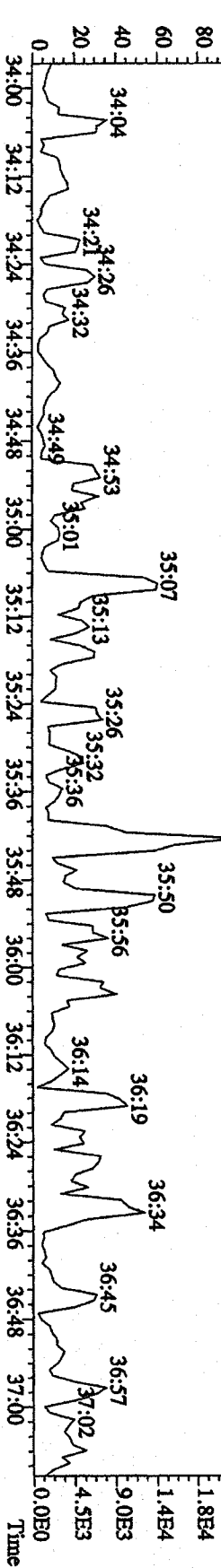
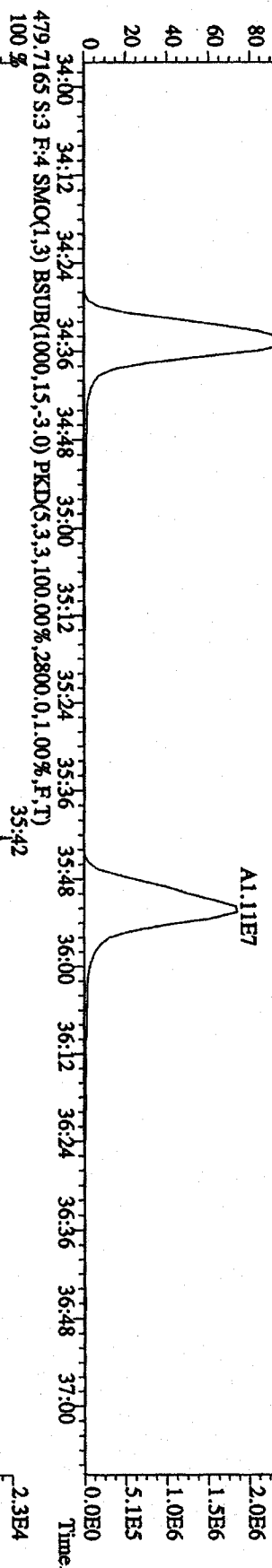
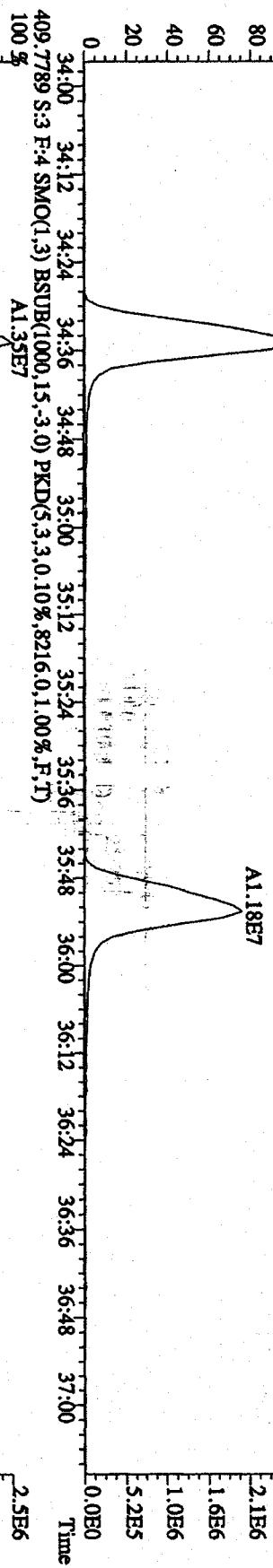
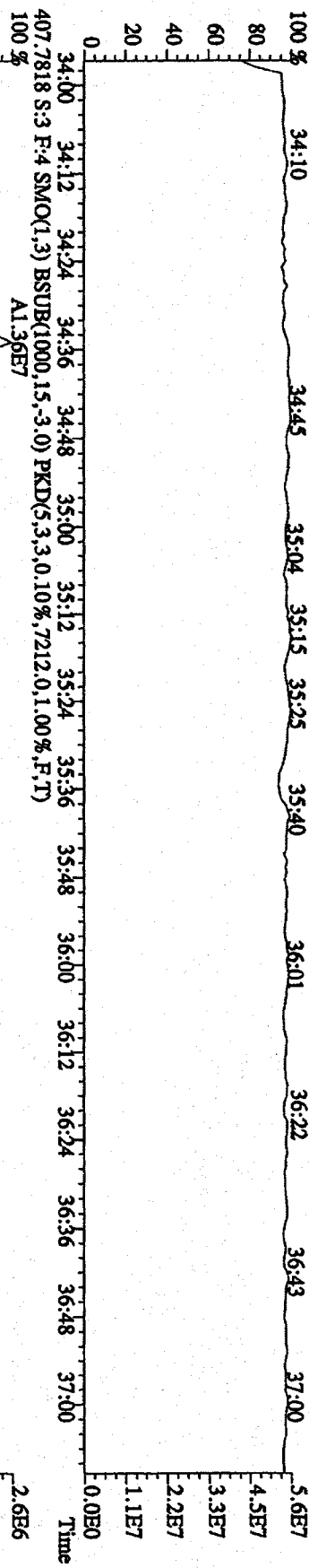
File: 31DE09A1D5 #1-495 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text: ST1231C :CS-2 09DXN423 Exp: DIOXIN
 342.9792 S:3 F:2 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)
 100% 21:57 22:27 23:01 23:34 23:58 24:26 25:03 25:45 26:29 27:01 27:44 28:26



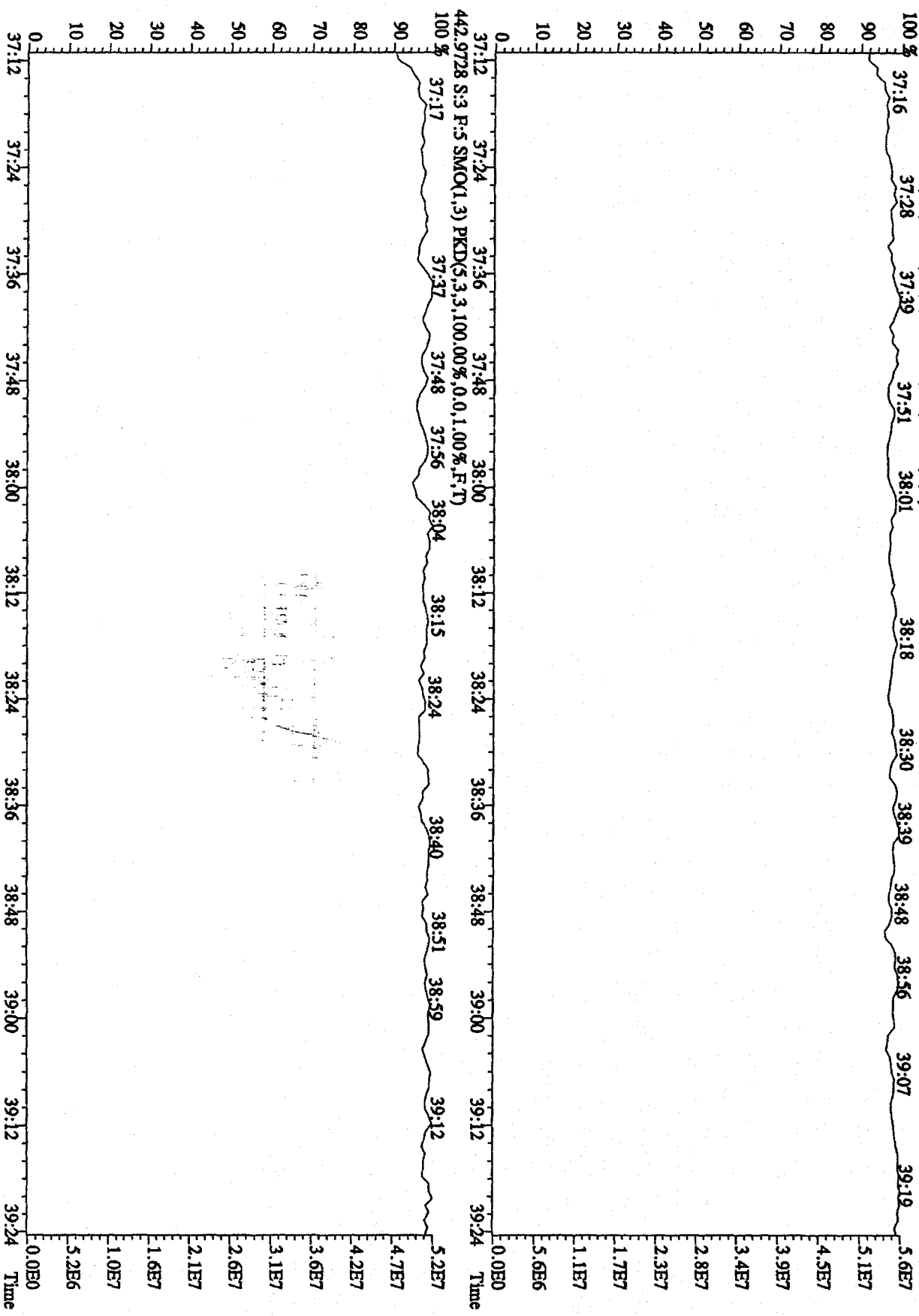
File: 31DE09A1.DS #1-362 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text: ST1231C : CS-2 09DXN423 Exp: DIOXIN
 392.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 28:42 29:02 29:23 29:48 30:11 30:32 30:51 31:10 31:35 32:09 32:28 32:46 33:06 33:28 33:46



File:31DE09A1D5 #1-227 Aeq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1231C :CS-2.09DXN423 Exp:DIOXIN
 430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 34:10 34:45 35:04 35:15 35:25 35:40 36:01 36:22 36:43 37:00

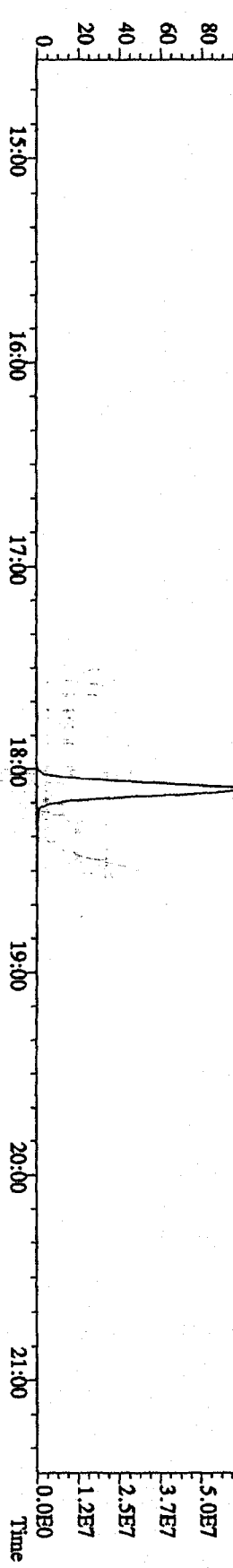
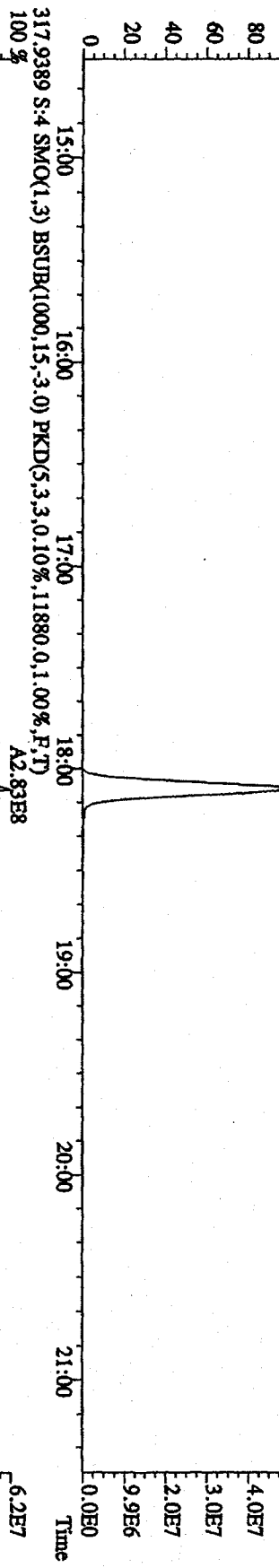
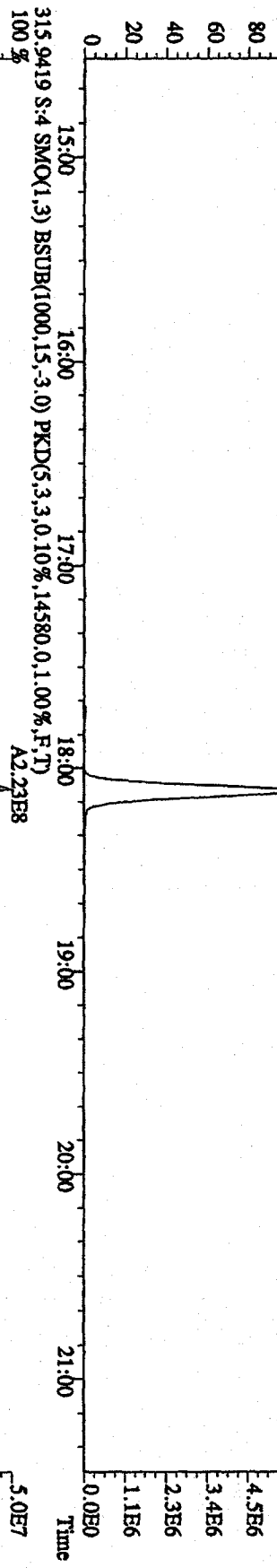
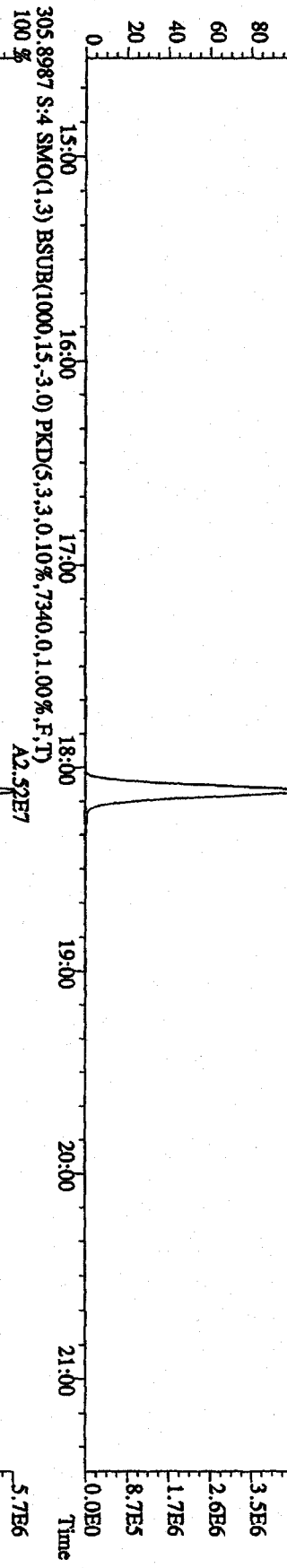


File: 31DE09AID5 #1-161 Acq: 1-JAN-2010 00:50:55 GC EI+ Voltage SIR 70SE
 Sample#3 Text: ST1231C :CS-2 09DXN423 Exp: DIOXIN
 454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 37:16 37:28 37:39 37:51 38:01

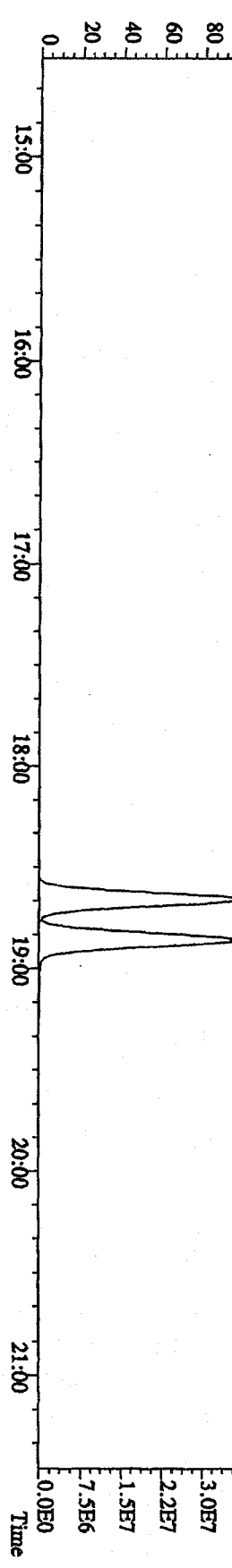
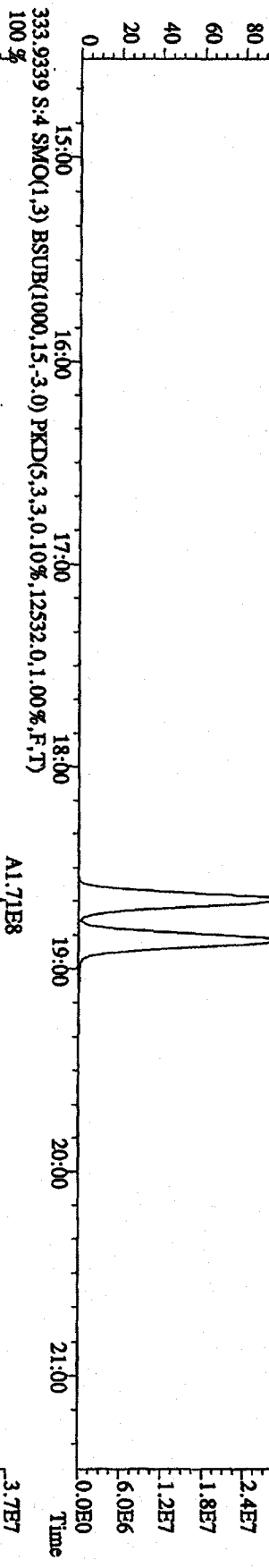
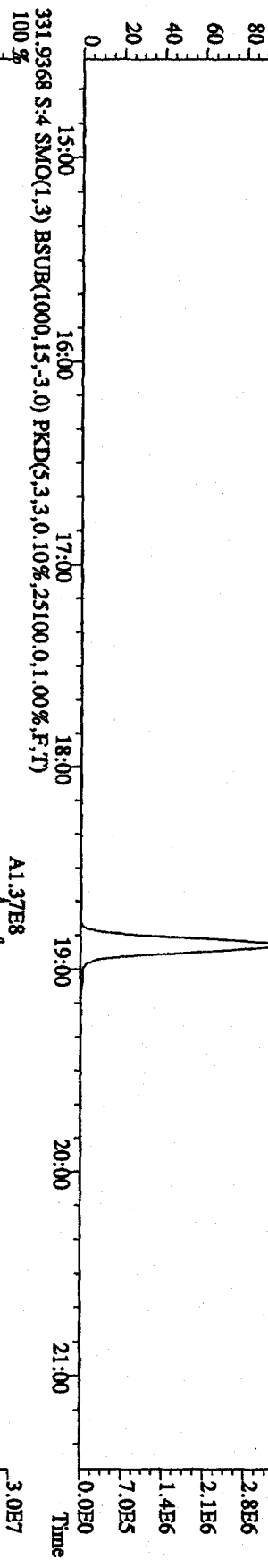
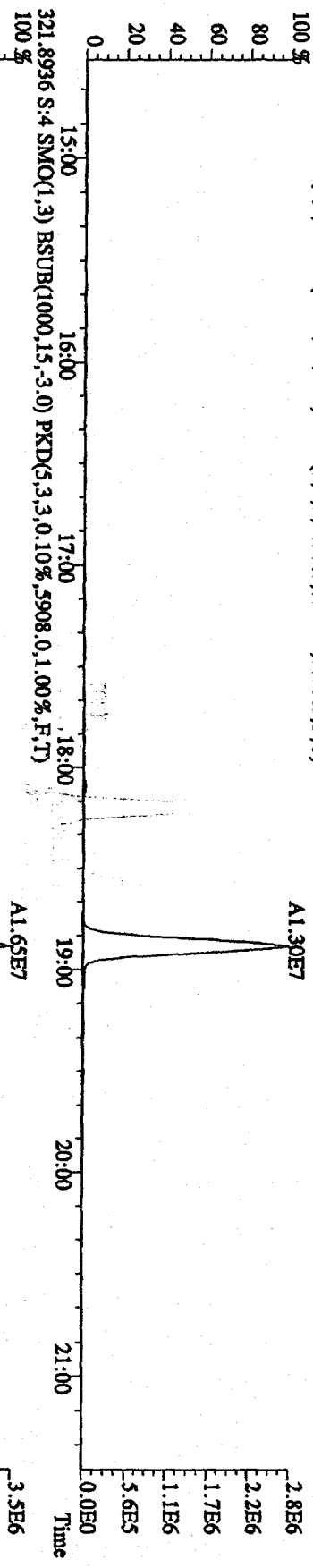


0104
 0104
 0104

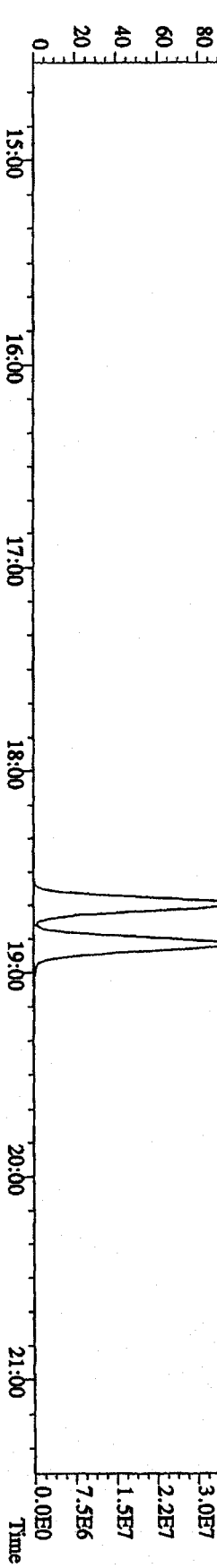
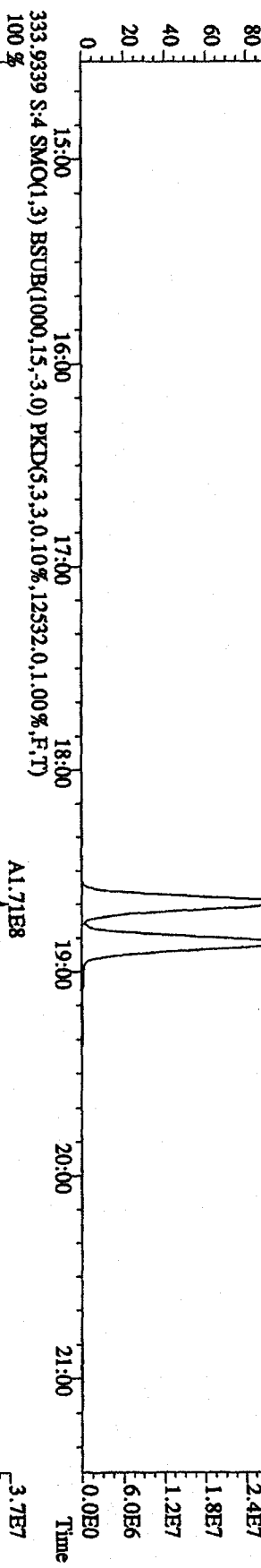
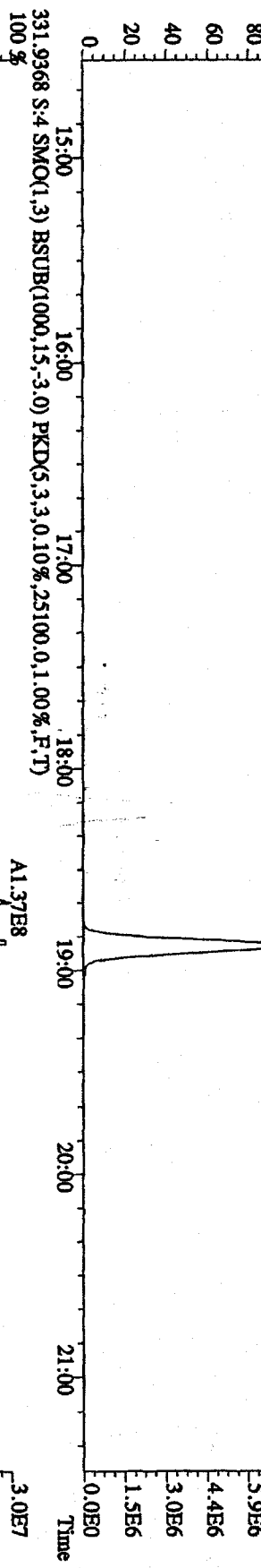
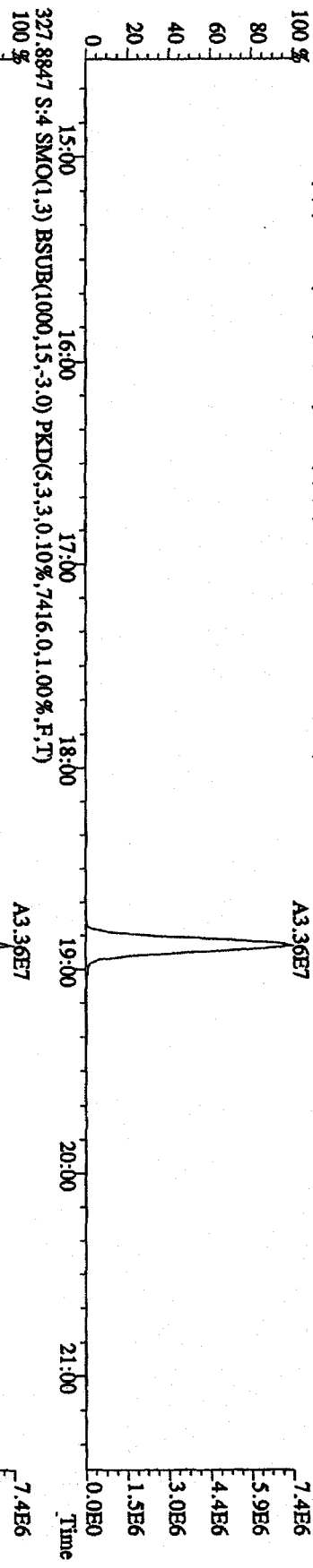
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1231D :CS-3 09DXN425 Exp.:DIOXIN
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3752,0,1,00%,F,T)
 100 % A1.90E7



File: 31DE09AID5 #1-411 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text: ST1231D :CS-3 09DXN425 Exp: DIOXIN
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5572,0,1,00%,F,T)
 100 %



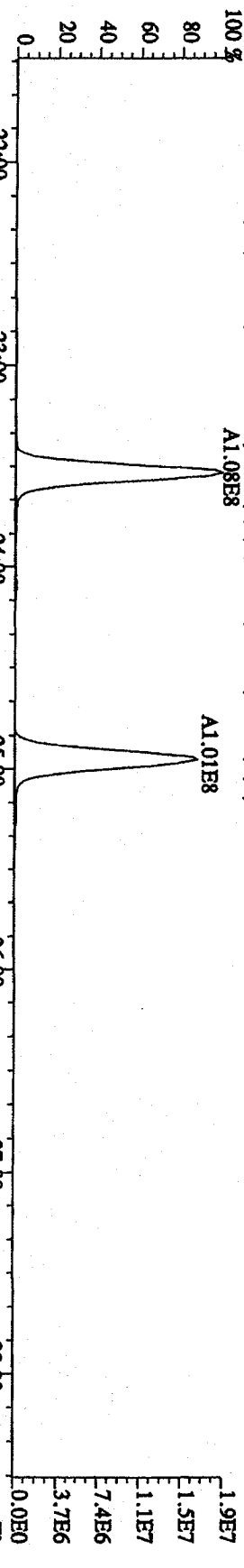
File:31DE09AIDS #1-411 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1231D :CS-3 09DXN425 Exp:DIOXIN
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7416,0.1,00%,F,T)



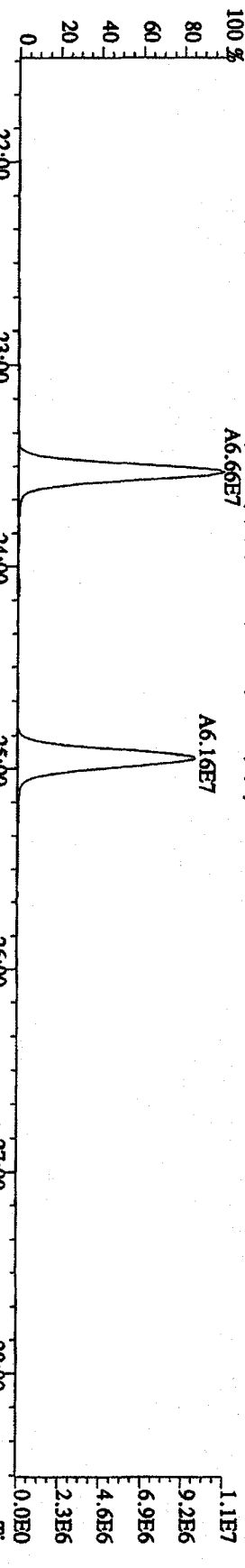
File:31DE09AID5 #1-495 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE

Sample#4 Text:ST1231D :CS-3 09DXN425 Exp:DIOXIN

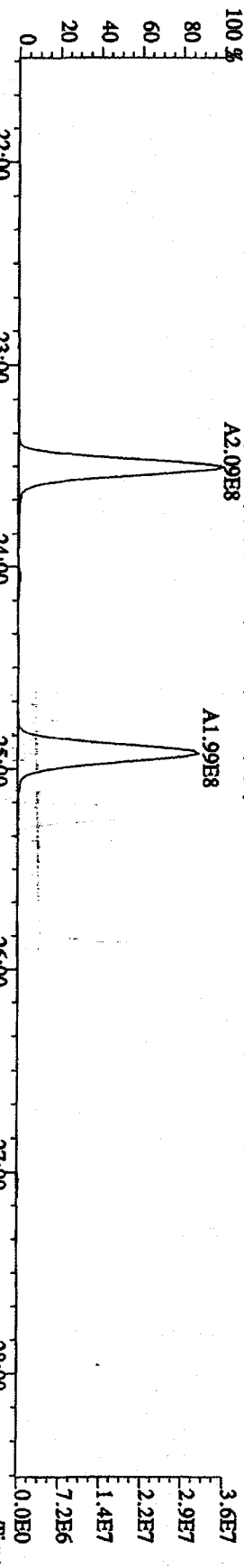
339.8597 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5428,0.1,0.0%,F,T) A1.08E8



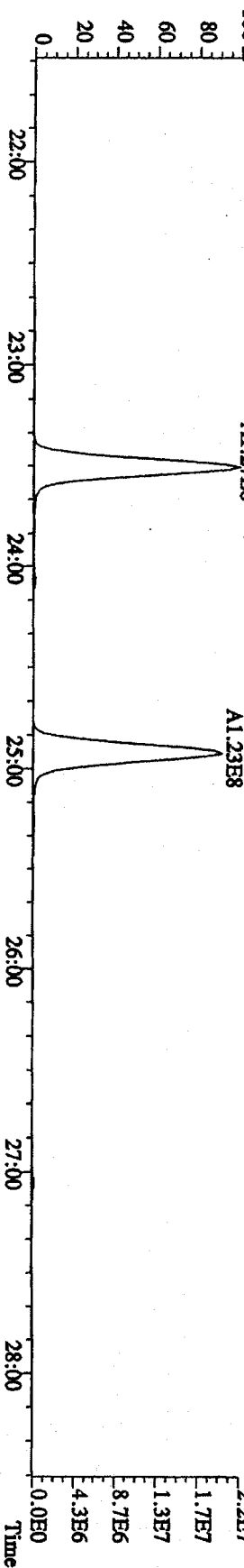
341.8567 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7612,0.1,0.0%,F,T) A6.66E7



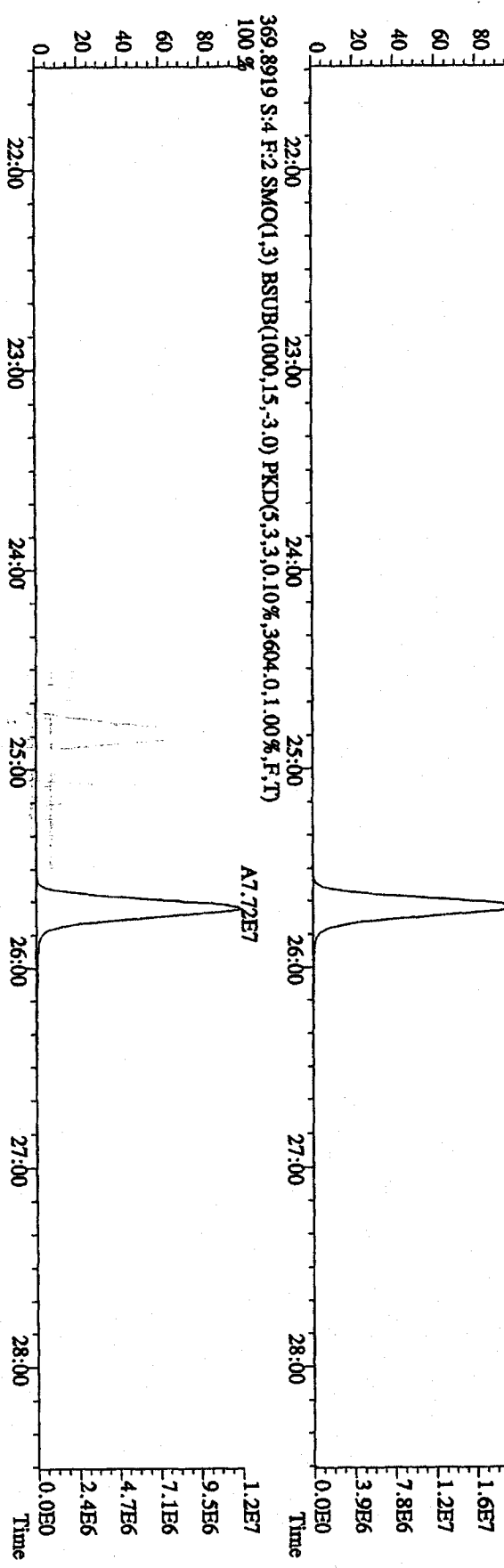
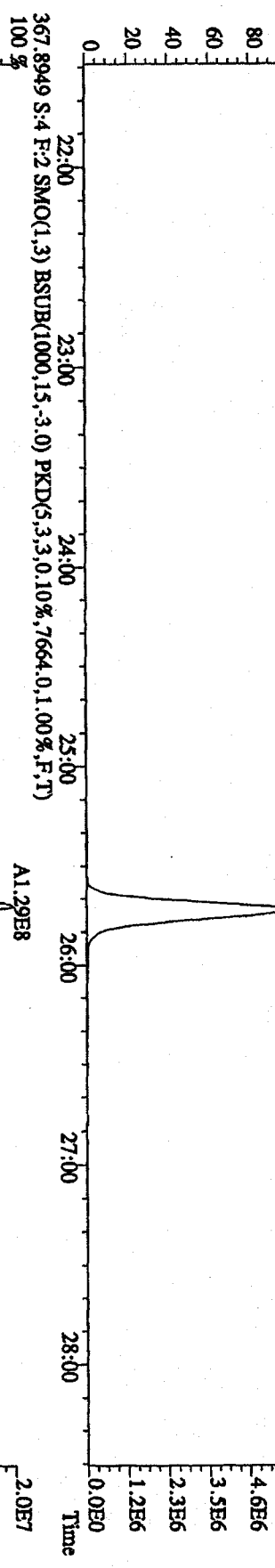
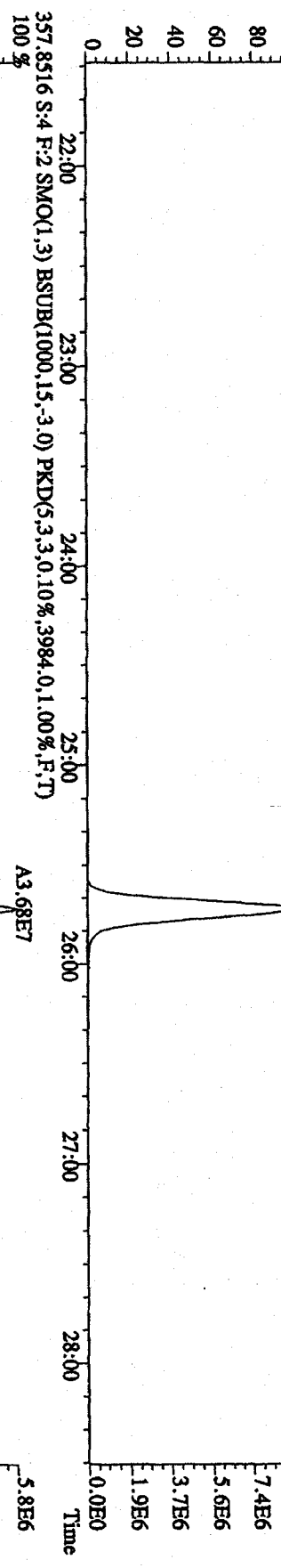
351.9000 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7836,0.1,0.0%,F,T) A2.09E8



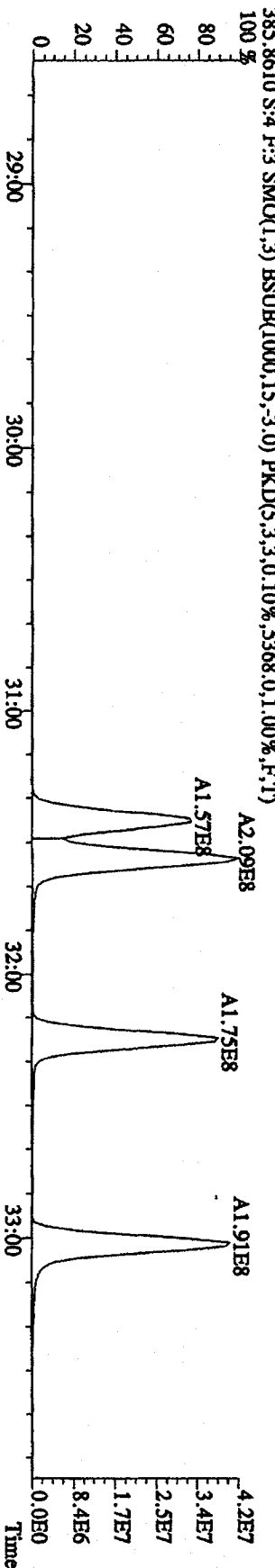
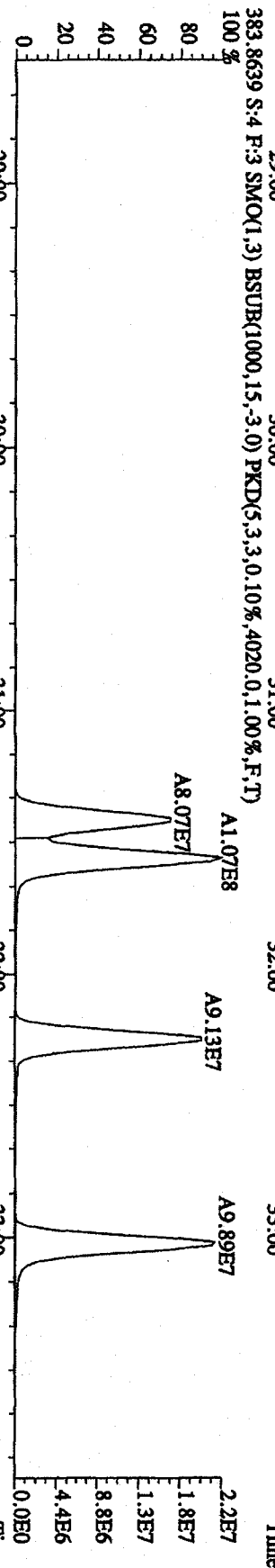
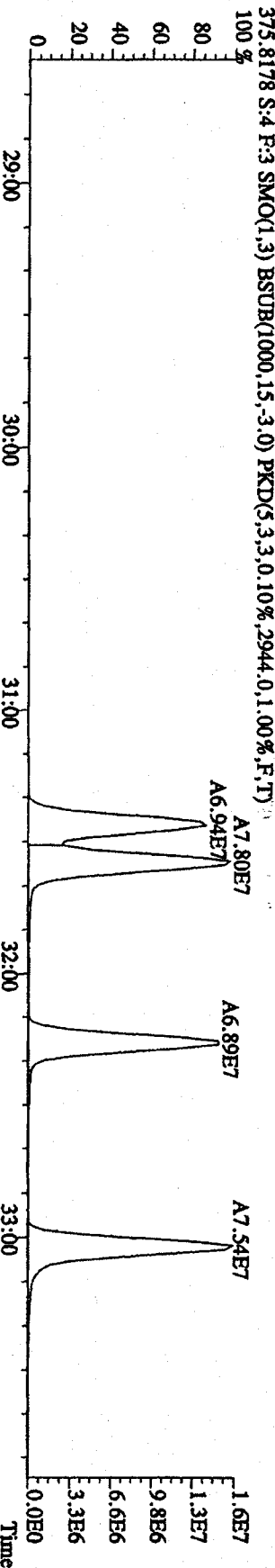
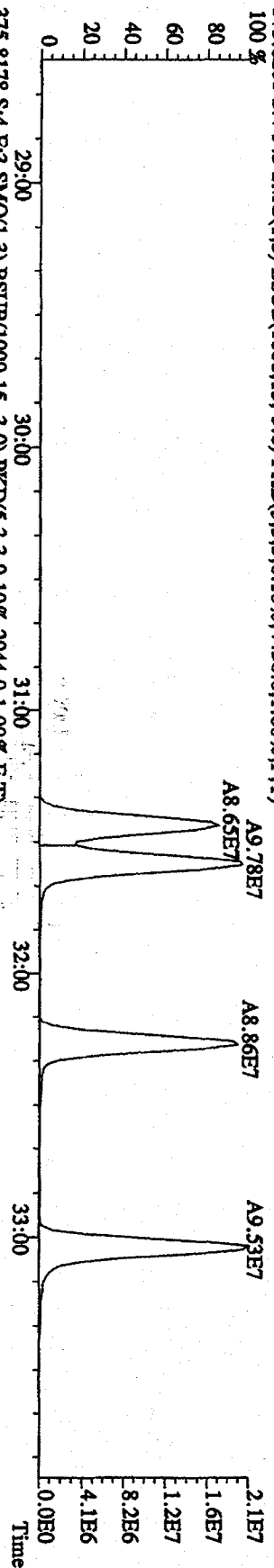
353.8970 S:4 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6728,0.1,0.0%,F,T) A1.27E8



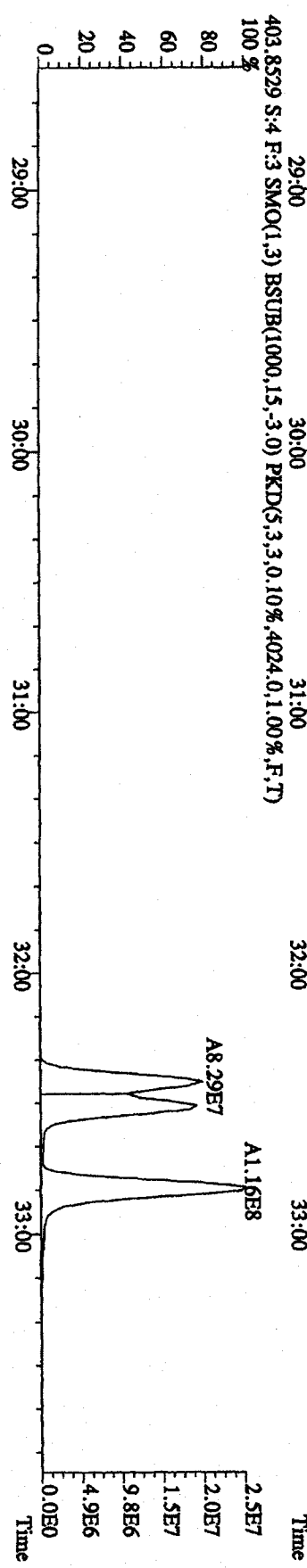
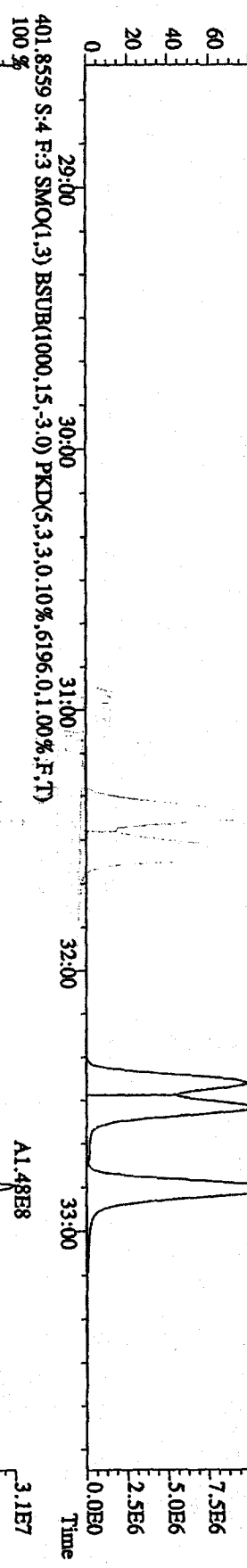
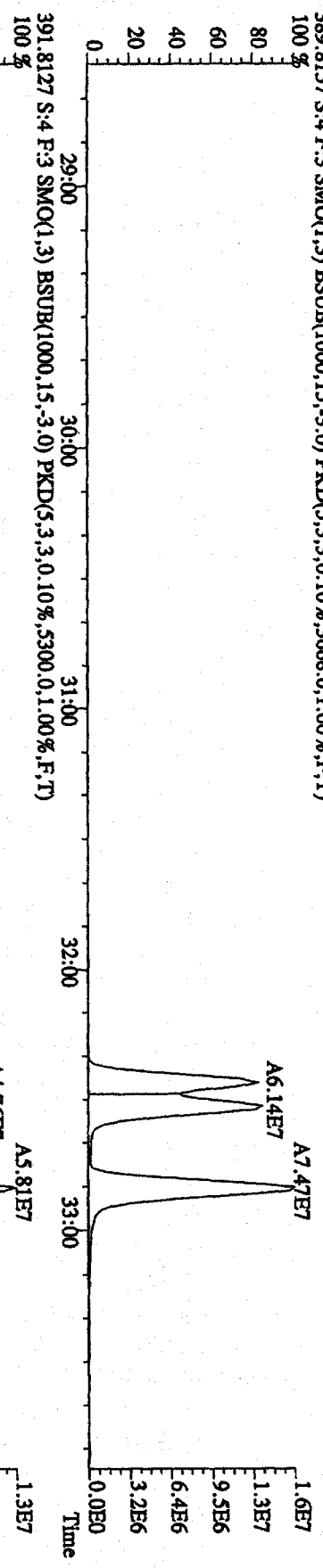
File:31DE09A1D5 #1-495 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1231D :CS-3 09DDXN425 Exp:DIOXIN
 355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5476,0.1,00%,F,T)



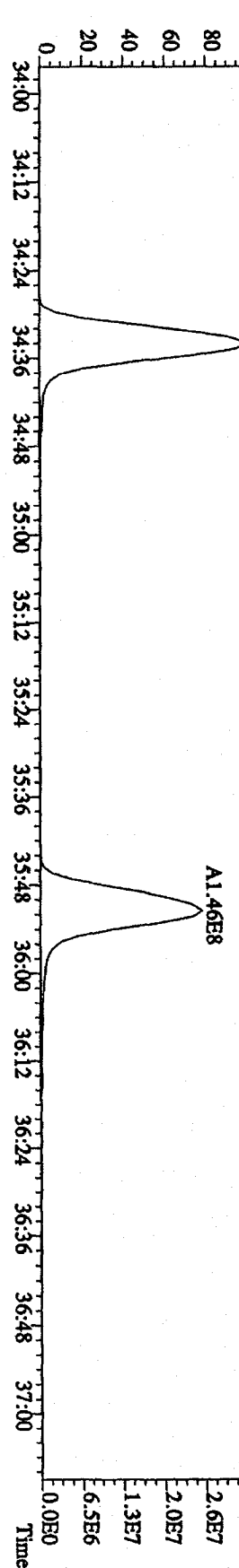
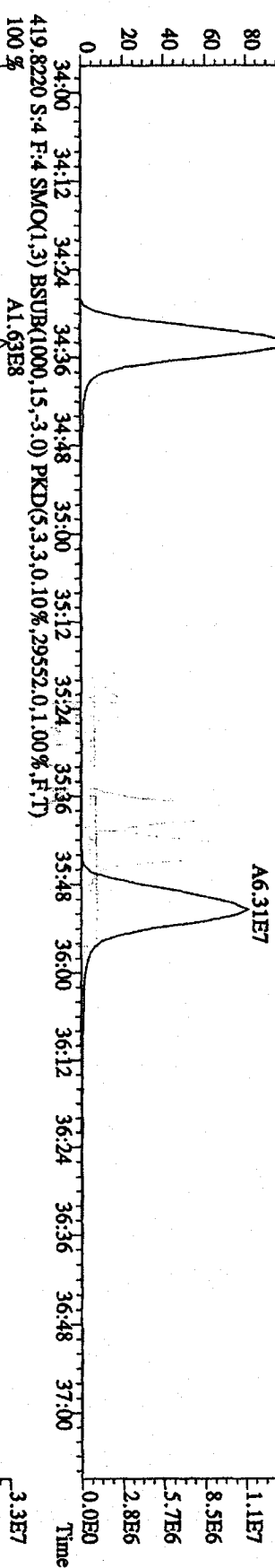
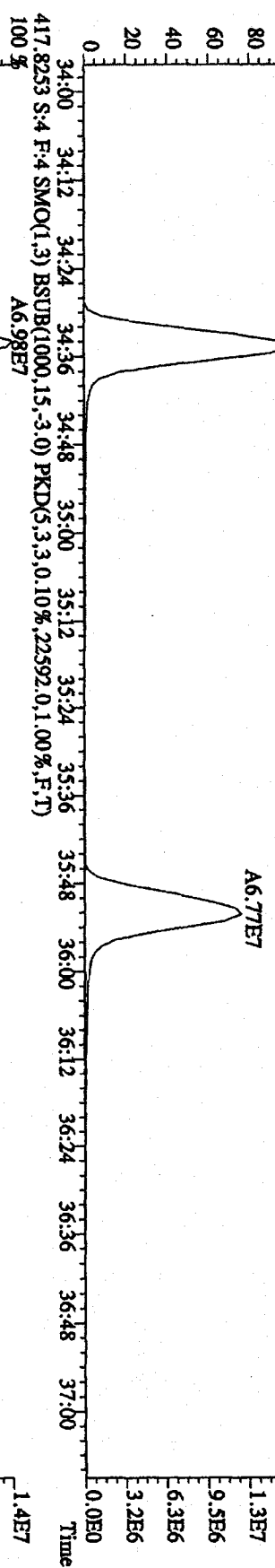
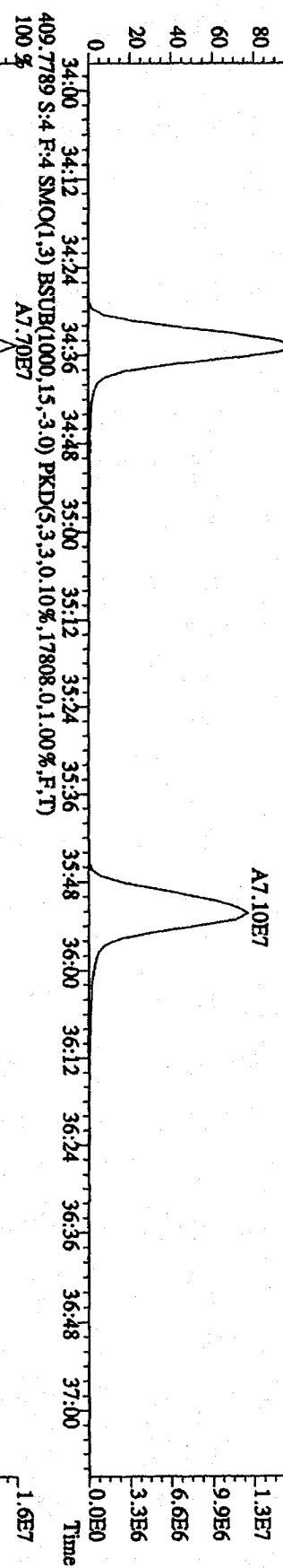
File:31DE09A1D5 #1-362 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
Sample#4 Text:ST1231D :CS-3 09DXN425 Exp:DIOXIN
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4436,0,1,00%,F,T)



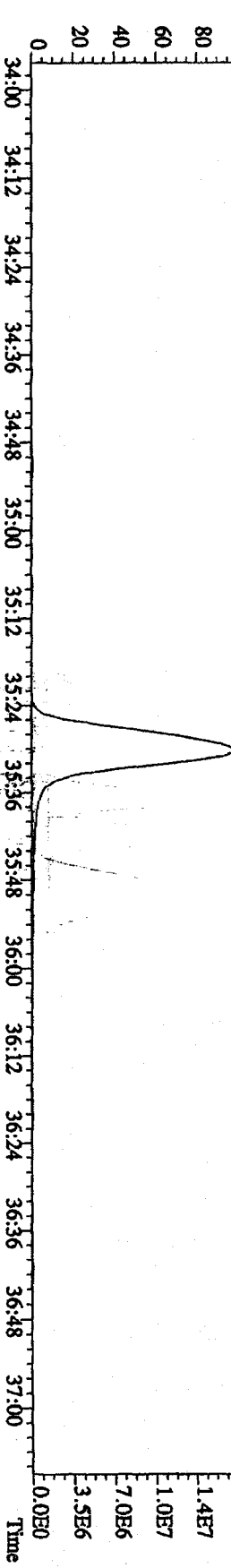
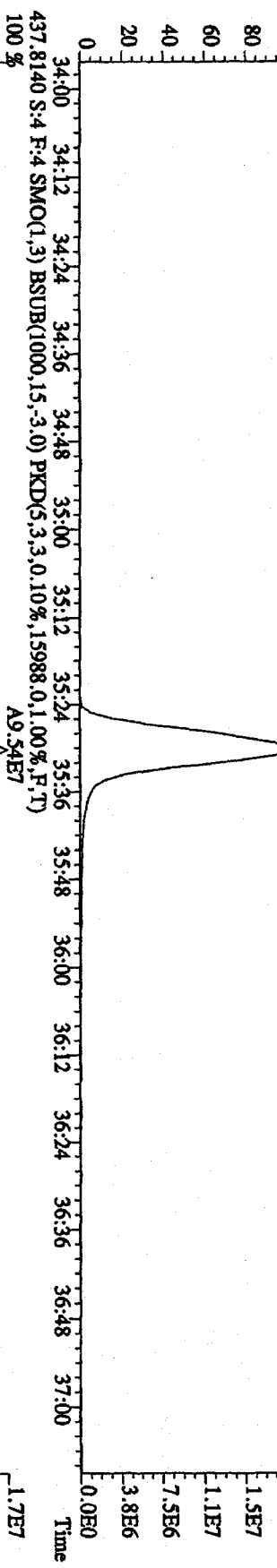
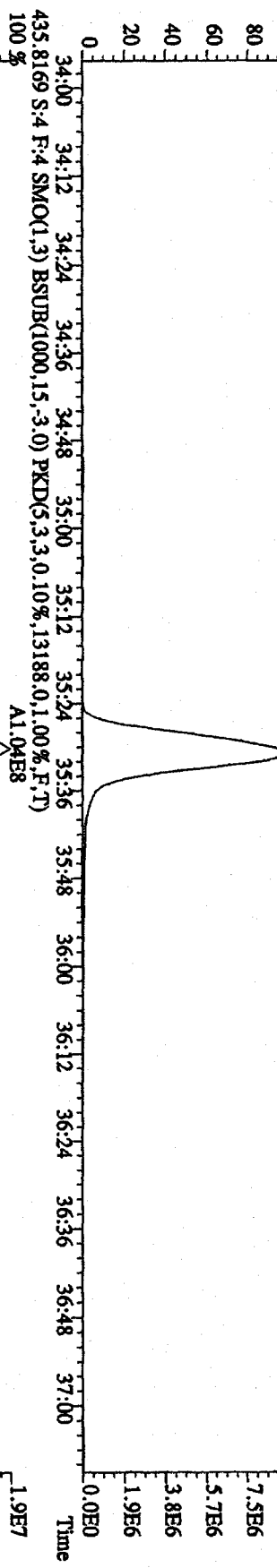
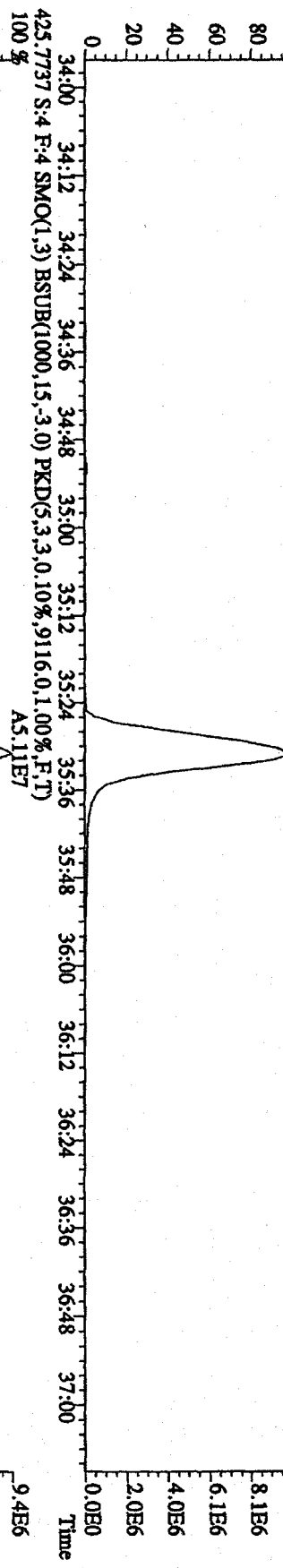
File:31DE09A1D5 #1-362 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1231D :CS-3 09DXN425 Exp:DIOXIN
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3668,0,1,00%,F,T)



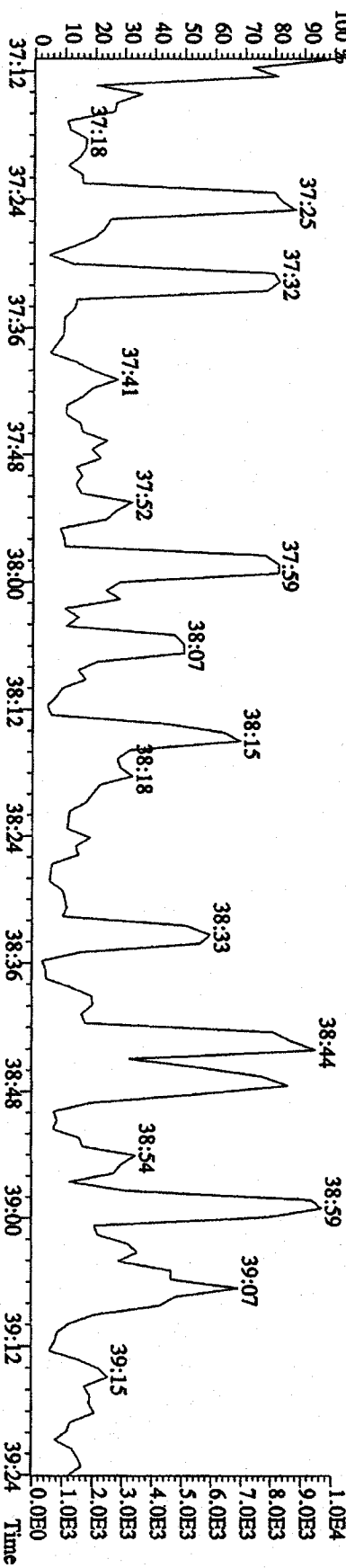
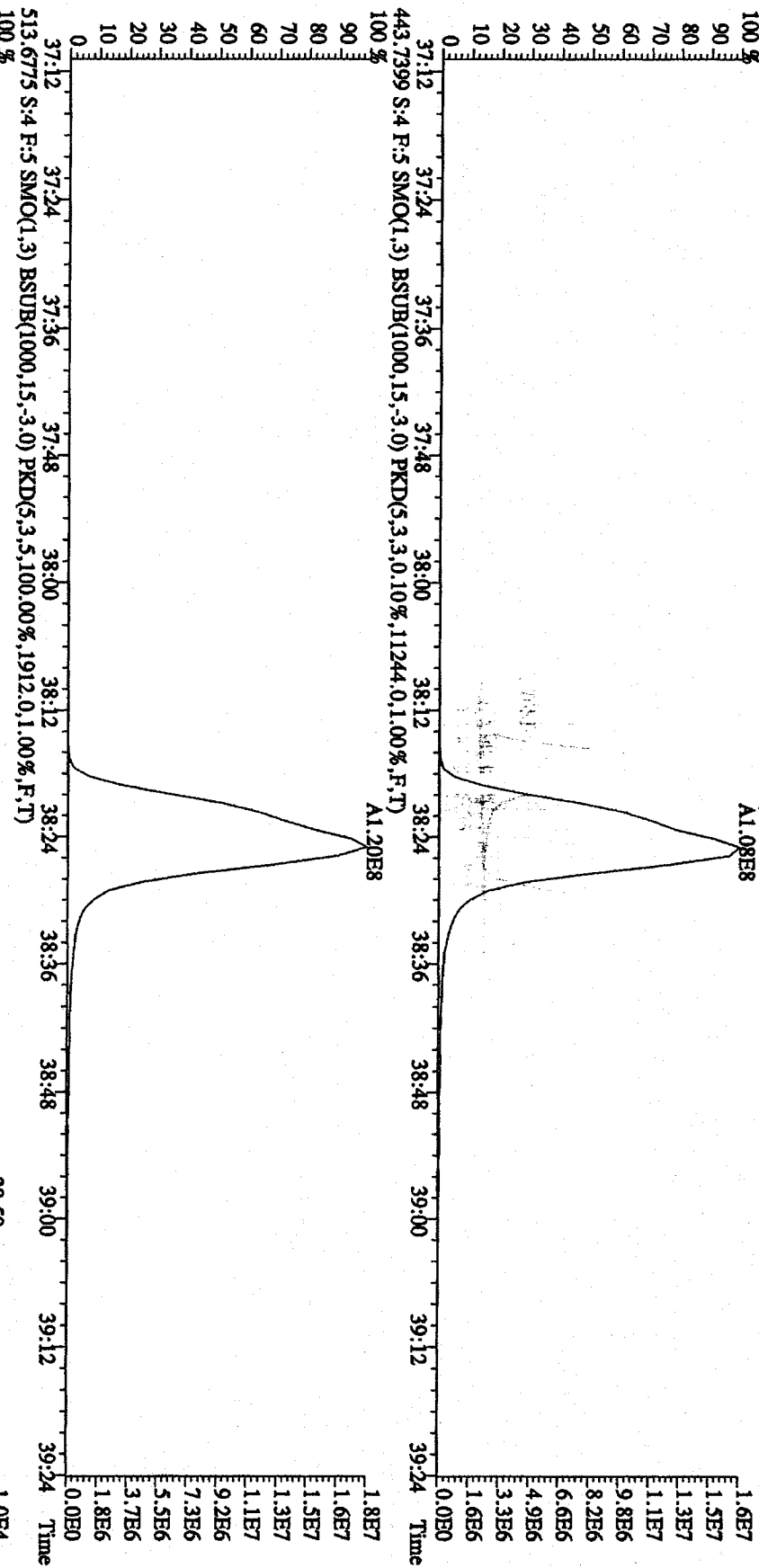
File:31DE09AID5 #1-227 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1231D :CS-3 09DXN425 Exp:DIOXIN
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11764,0,1,00%,F,T)
 100 % A7.94E7



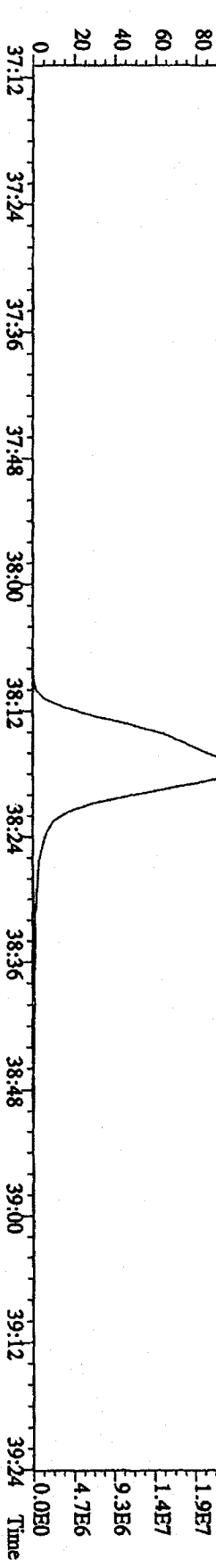
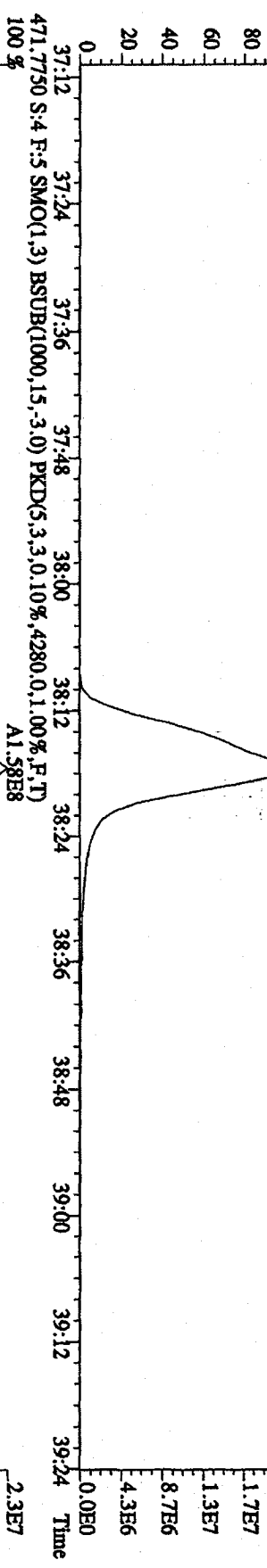
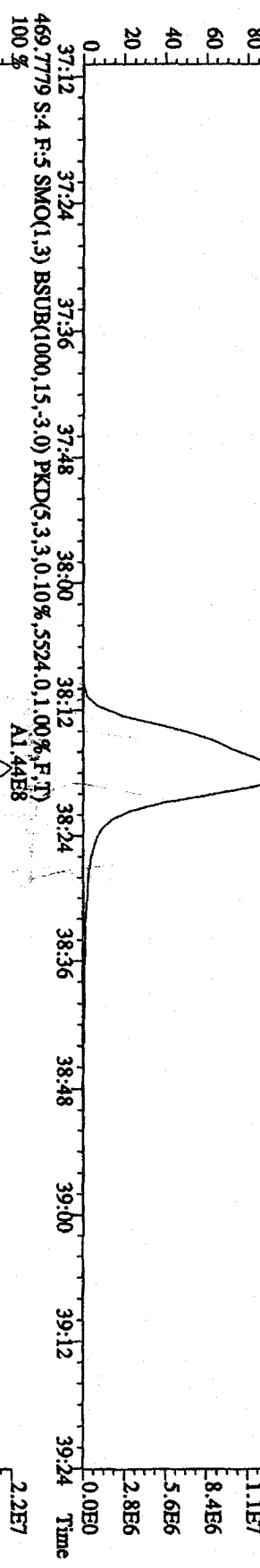
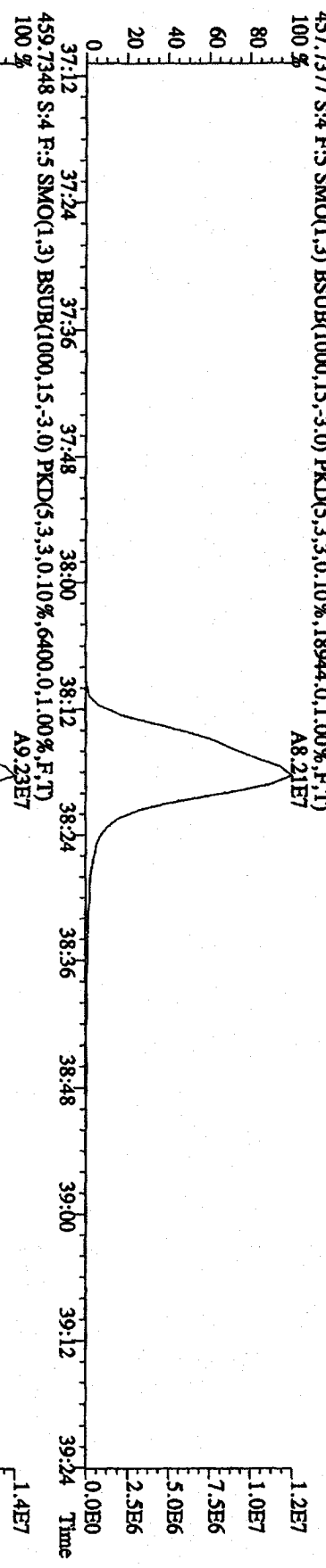
File:31DE09AID5 #1-227 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1231D :CS-3 09DDXN425 Exp:DIOXIN
 423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12792.0,1.00%,F,T)
 100% AS.39E7



File:31DE09A1D5 #1-161 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1231D :CS-3 09DXN425 Exp:DIOXIN
 441.7428 S:4 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,10364.0,1.00%,F,T)
 100%



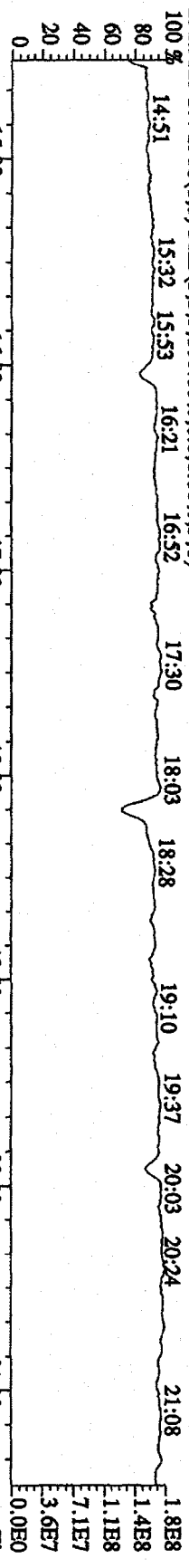
File: 31DE09AID5 #1-161 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text: ST1231D :CS-3 09DXN425 Exp: DIOXIN
 457.7377 S:4 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18944.0,1.00%,F,T)
 100%



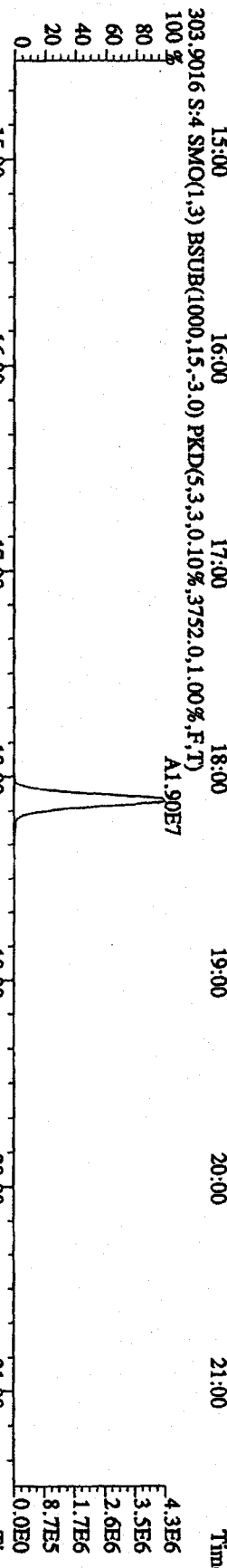
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE

Sample#4 Text:ST1231D :CS-3 09DXN425 Exp:DIOXIN

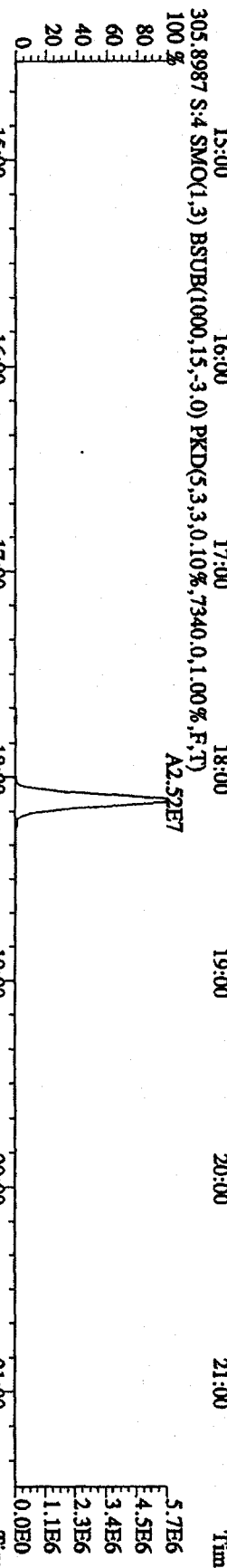
292.9825 S:4 SMO(1.3) PKD(5.3,5.100.00%,0.0,1.00%,F,T)



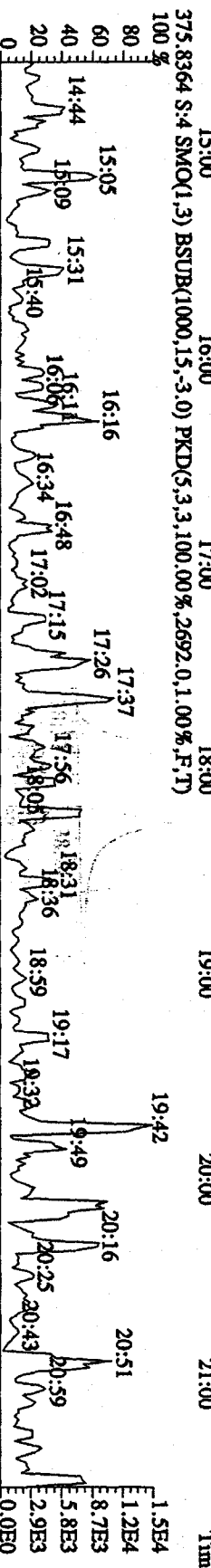
303.9016 S:4 SMO(1.3) BSUB(1000,15-.3.0) PKD(5.3,3.0,10%,3752.0,1.00%,F,T)



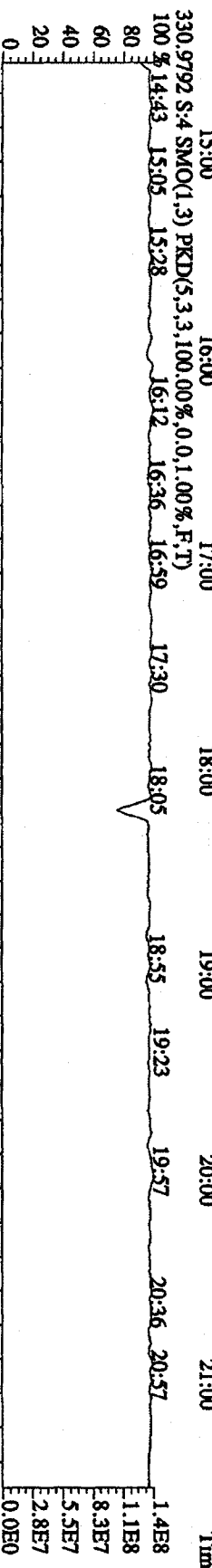
305.8987 S:4 SMO(1.3) BSUB(1000,15-.3.0) PKD(5.3,3.0,10%,7340.0,1.00%,F,T)



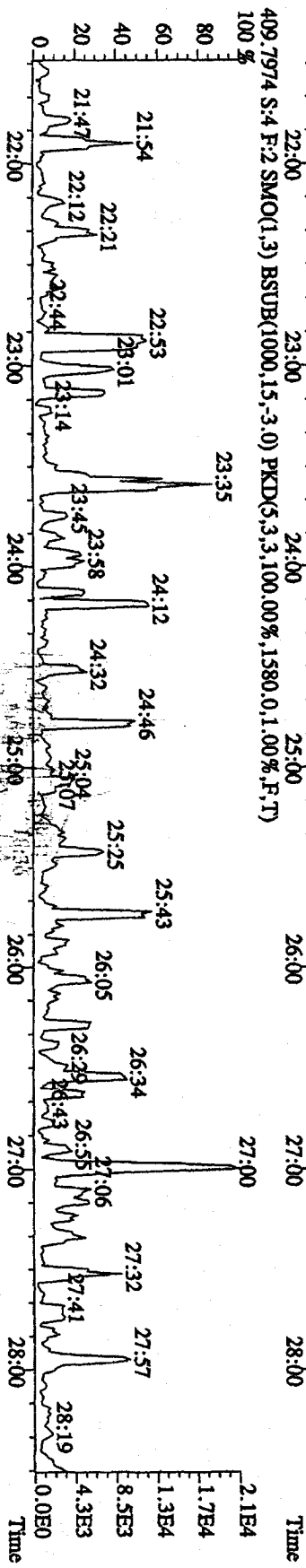
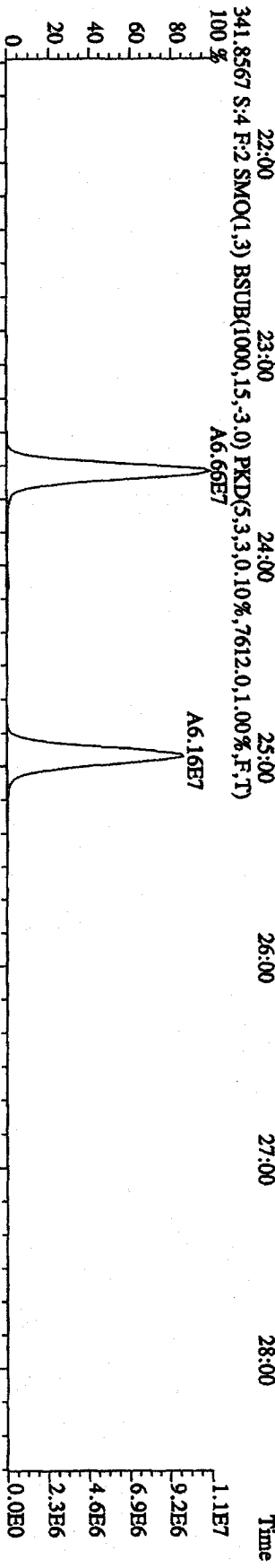
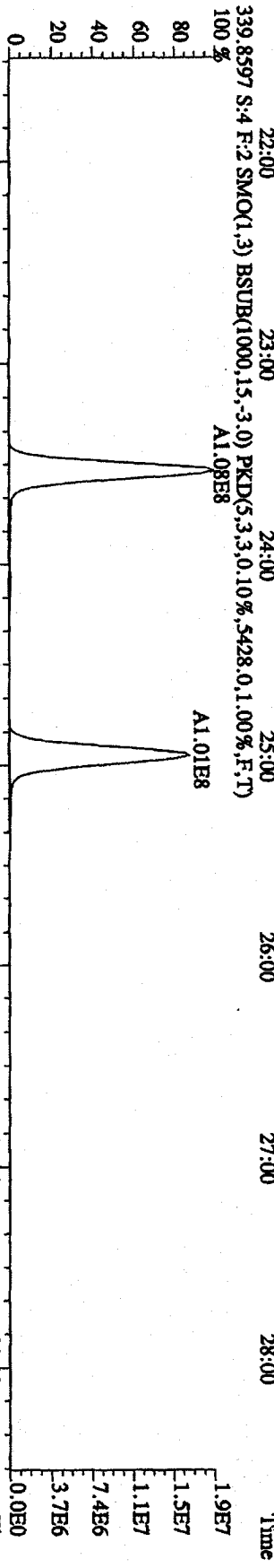
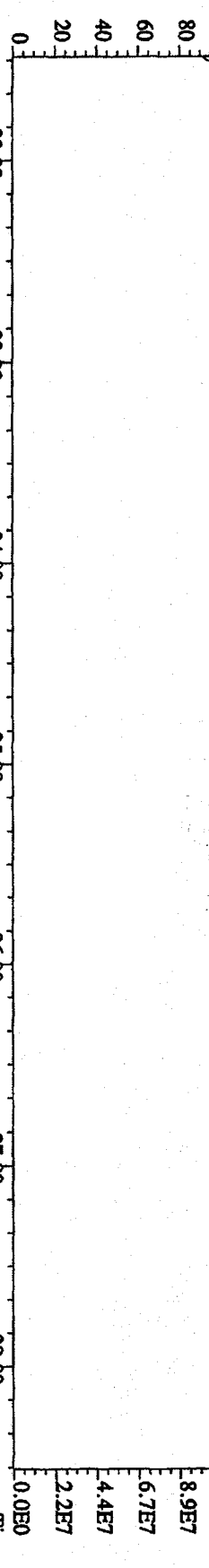
375.8364 S:4 SMO(1.3) BSUB(1000,15-.3.0) PKD(5.3,3.100.00%,2692.0,1.00%,F,T)



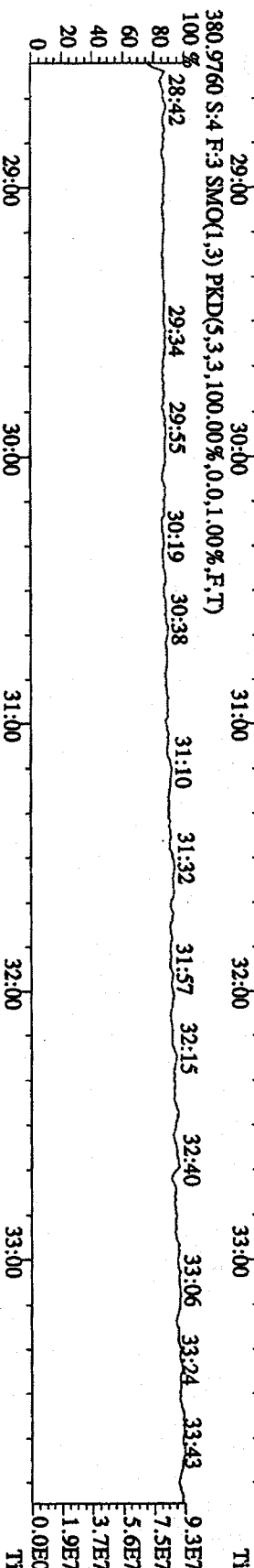
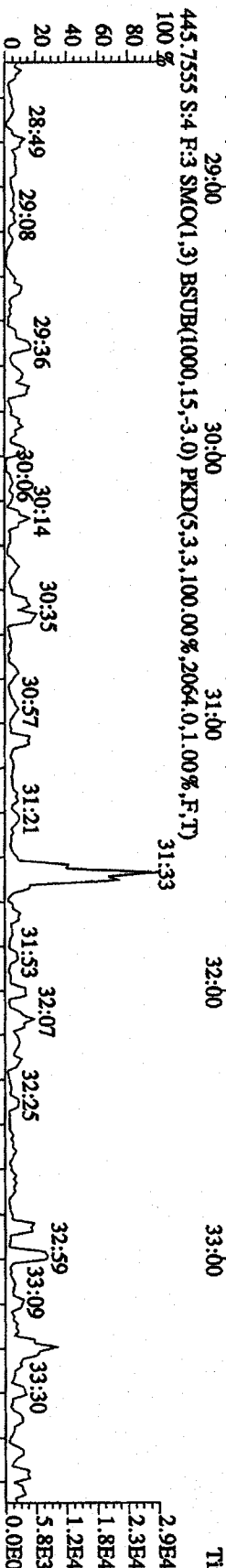
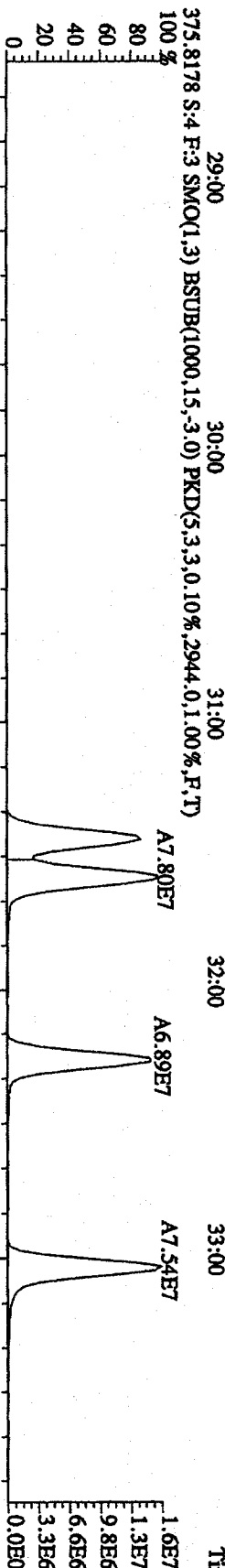
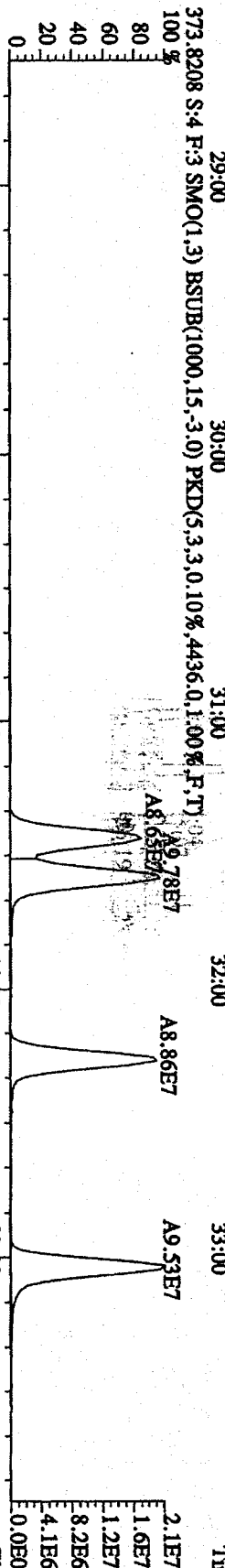
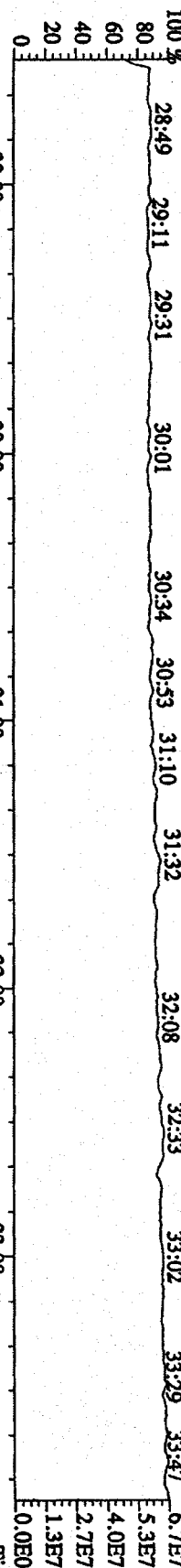
330.9792 S:4 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)



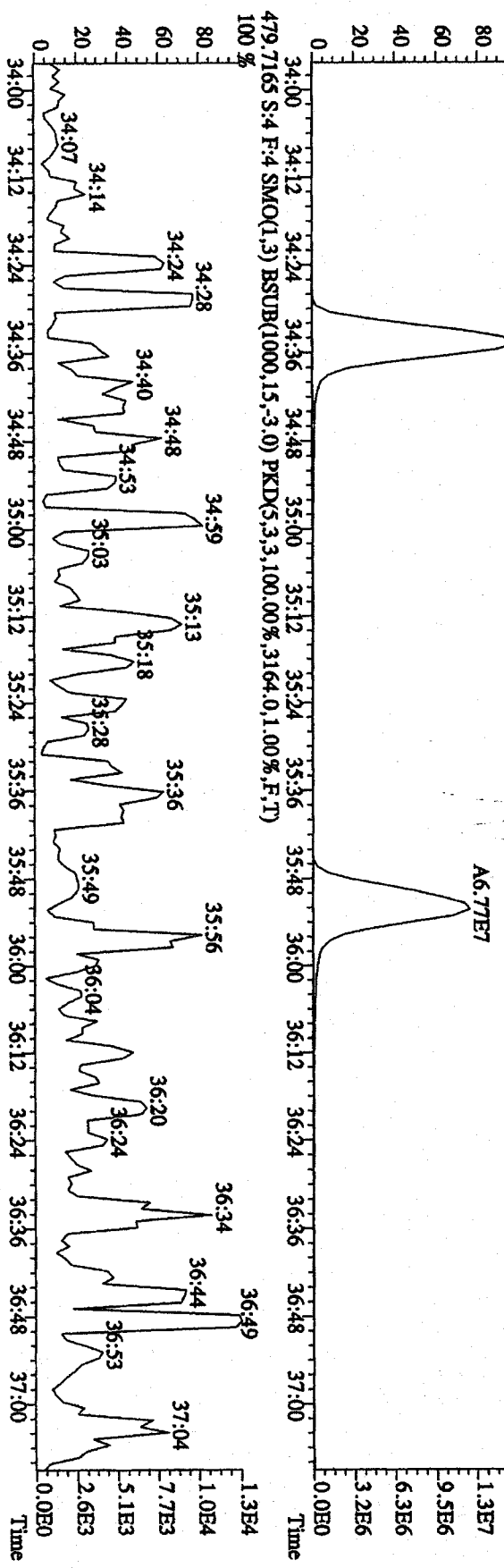
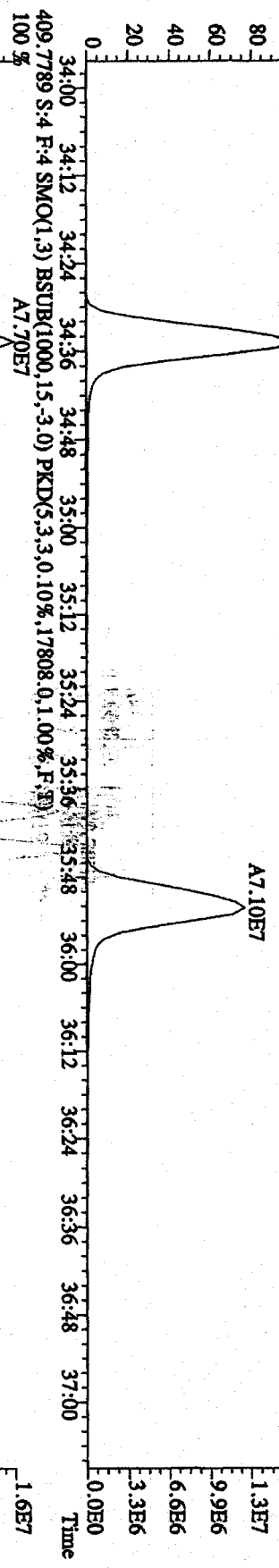
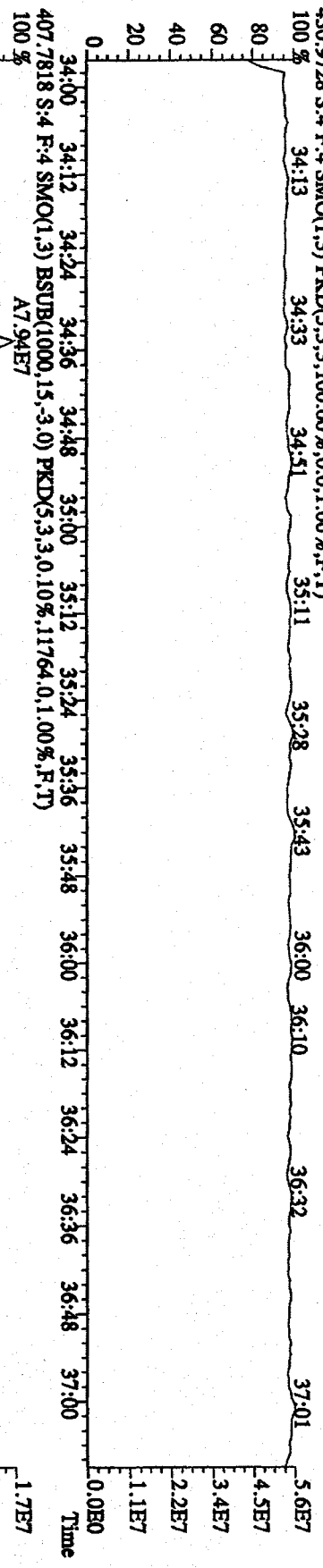
File: 31DE09A1D5 #1-495 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Tent: ST1231D :CS-3 09DXN425 Exp: DIOXIN
 342.9792 S:4 F:2 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 21:49 22:14 23:00 23:30 24:01 24:22 24:44 25:19 25:47 26:16 26:56 27:30 27:58



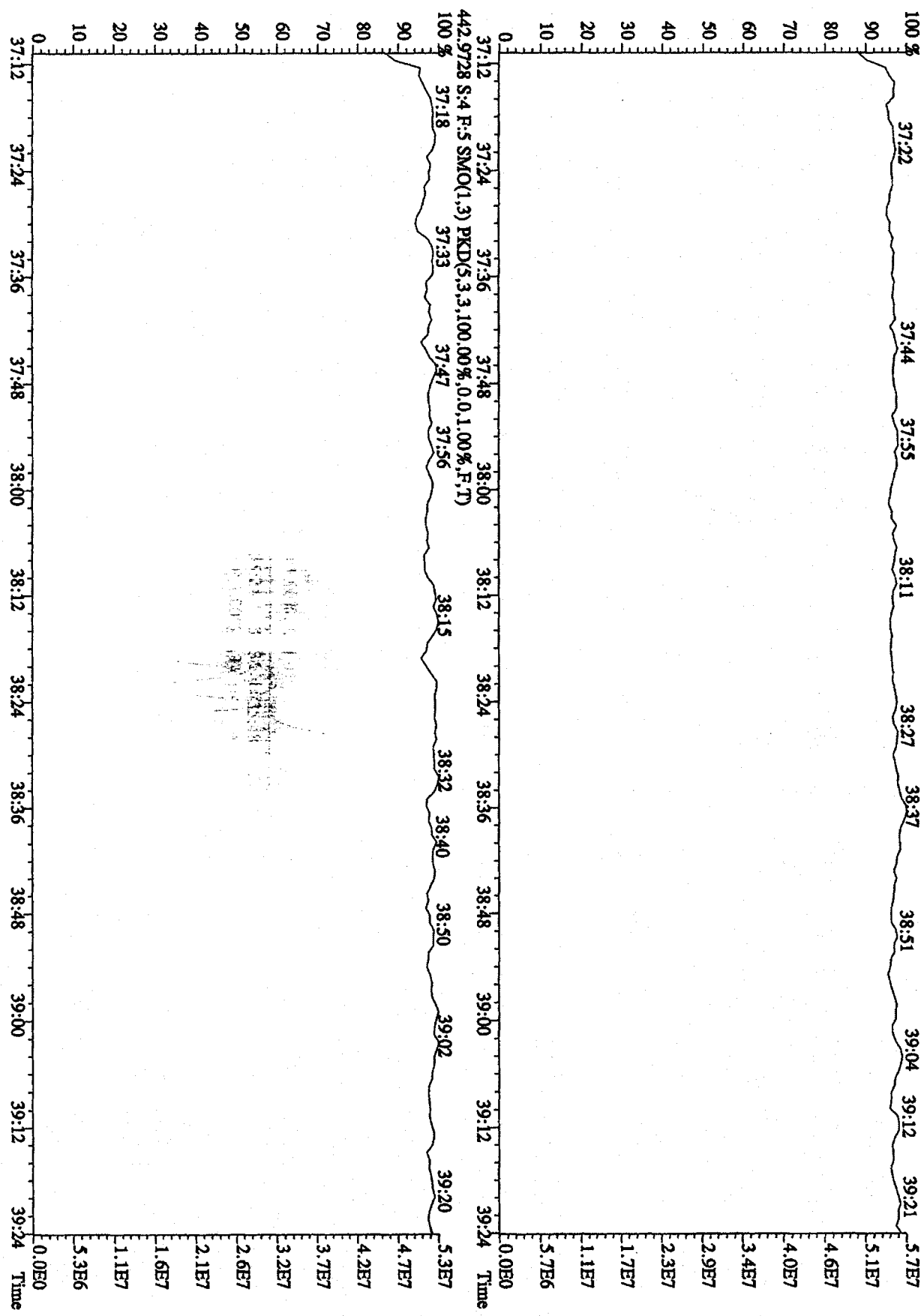
File:31DB09A1D5 #1-362 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1231D :CS-3 09DXN425 Exp:DIOXIN
 392.9760 S:4 F:3 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



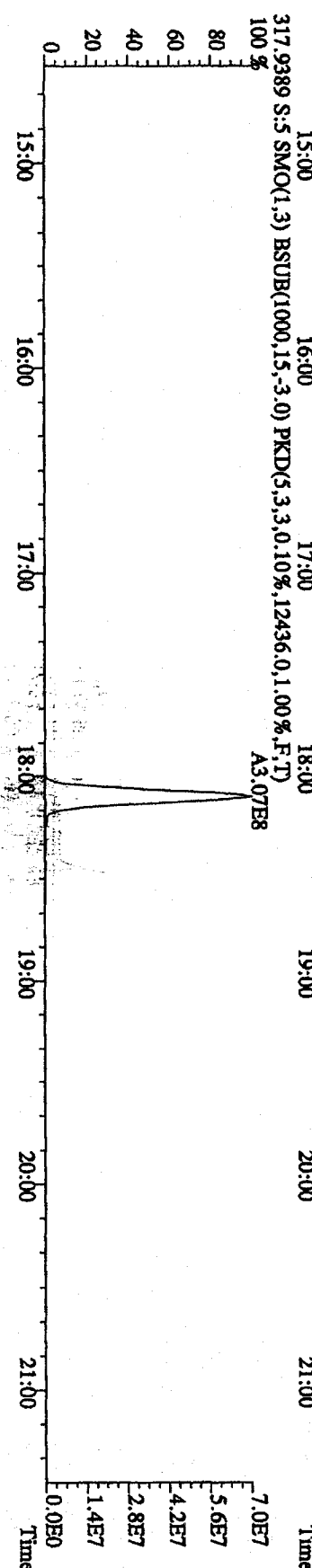
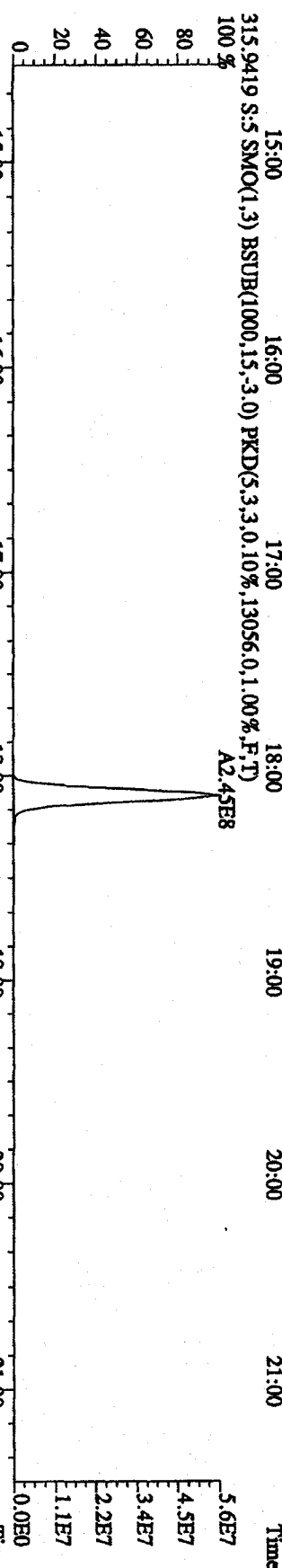
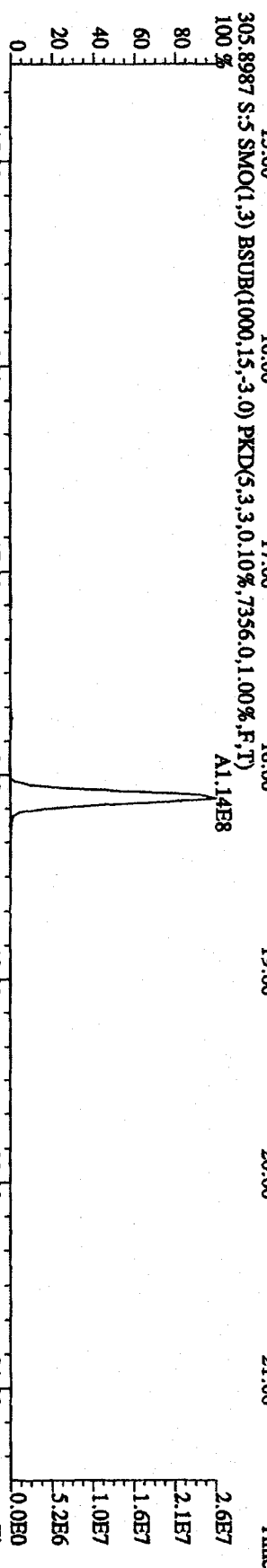
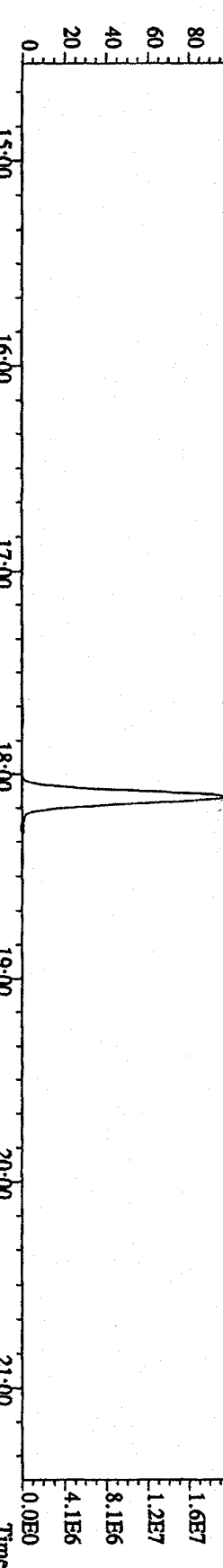
File:31DB09A1D5 #1-227 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1231D :CS-3 09DXN425 Exp:DI0XIN
 430.9728 S:4 F:4 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)
 100 % 34:13 34:33 34:51 35:11 35:28 35:43 36:00 36:10 36:32 37:01



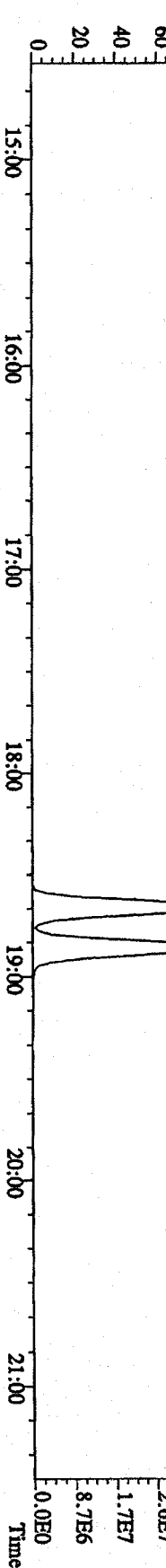
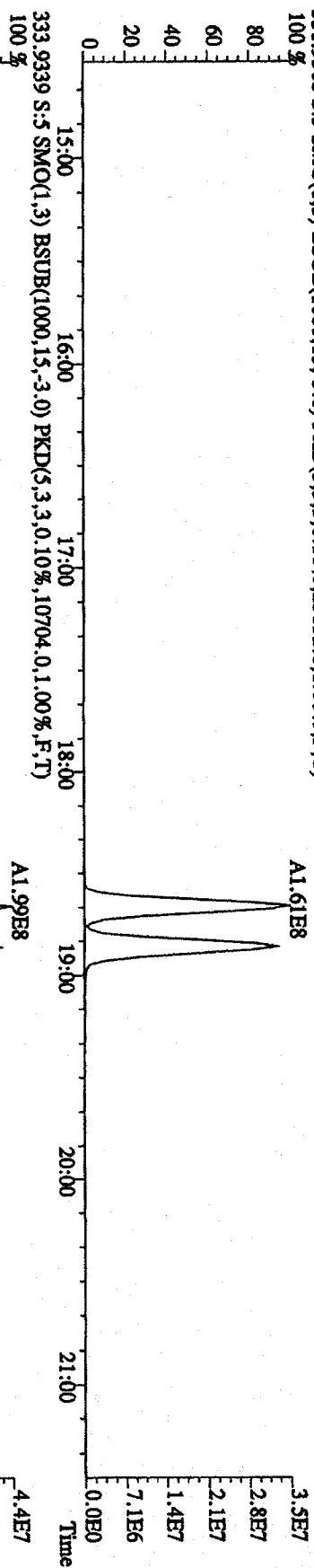
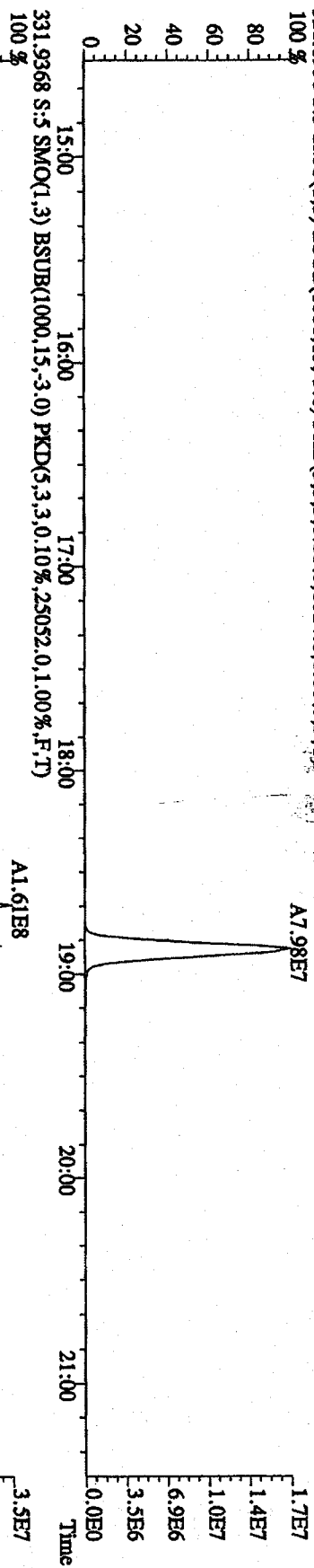
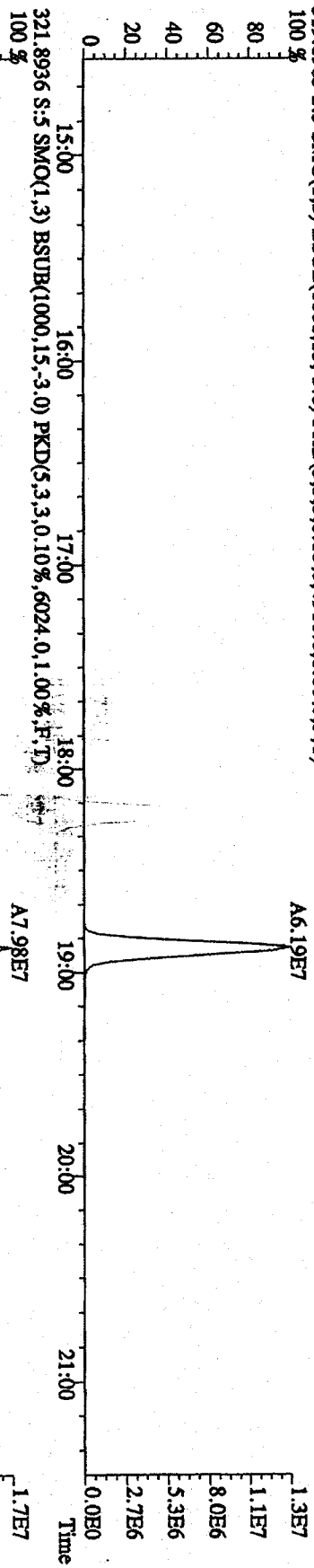
File:31DE09A1D5 #1-161 Acq: 1-JAN-2010 01:32:44 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1231D :CS-3 09DXN425 Exp:DIOXIN
 434.9728 S:4 F:5 SMO(1.3) PKD(5.3,3.100,00%,0.0,1.00%,F,T)



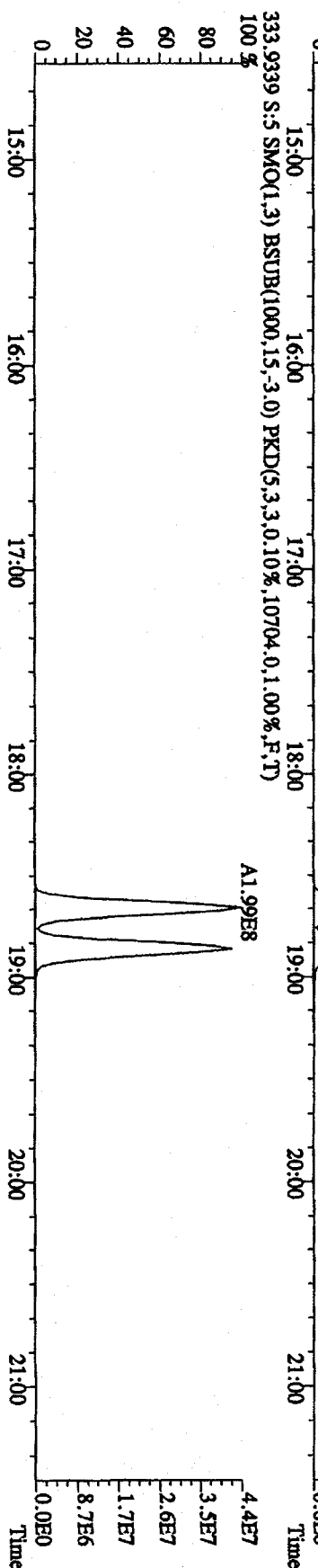
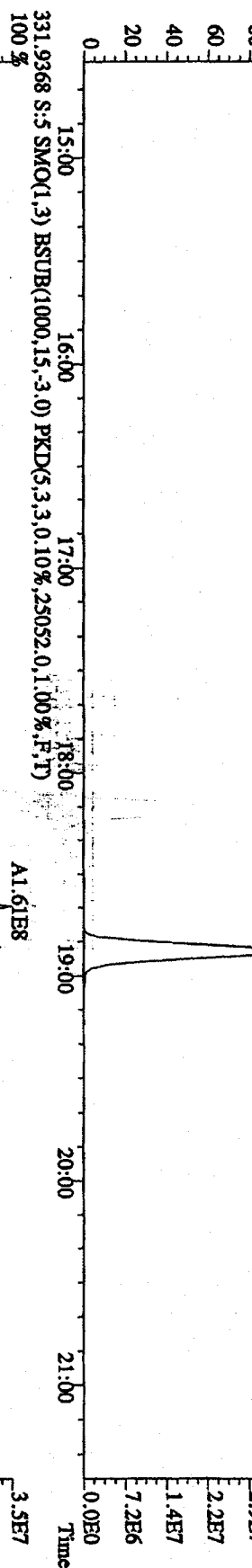
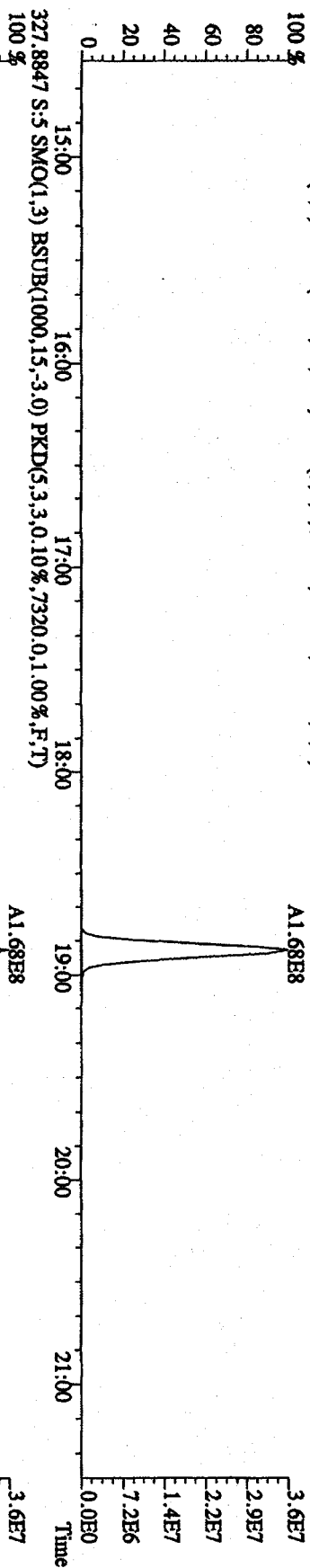
File:31DE09A1D5 #1-410 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1231E :CS-4 09DXN426 Exp:DIOXIN
 303.9016 S:S SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7872,0.1,00%,F,T)
 100%



File: 31DE09A1D5 #1-410 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE
 Sample#5 Text: ST1231E :CS-4 09DXN426 Exp: DIOXIN
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4916,0,1,00%,F,T) 100%



File:31DE09A1D5 #1-410 Acq: 1-JAN-2010 02:14:32 GC EI + Voltage SIR 70SE
 Sample#5 Text:ST1231E :CS-4 09DXN426 Exp:DIOXIN
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7320,0,1,00%,F,T)
 100 %

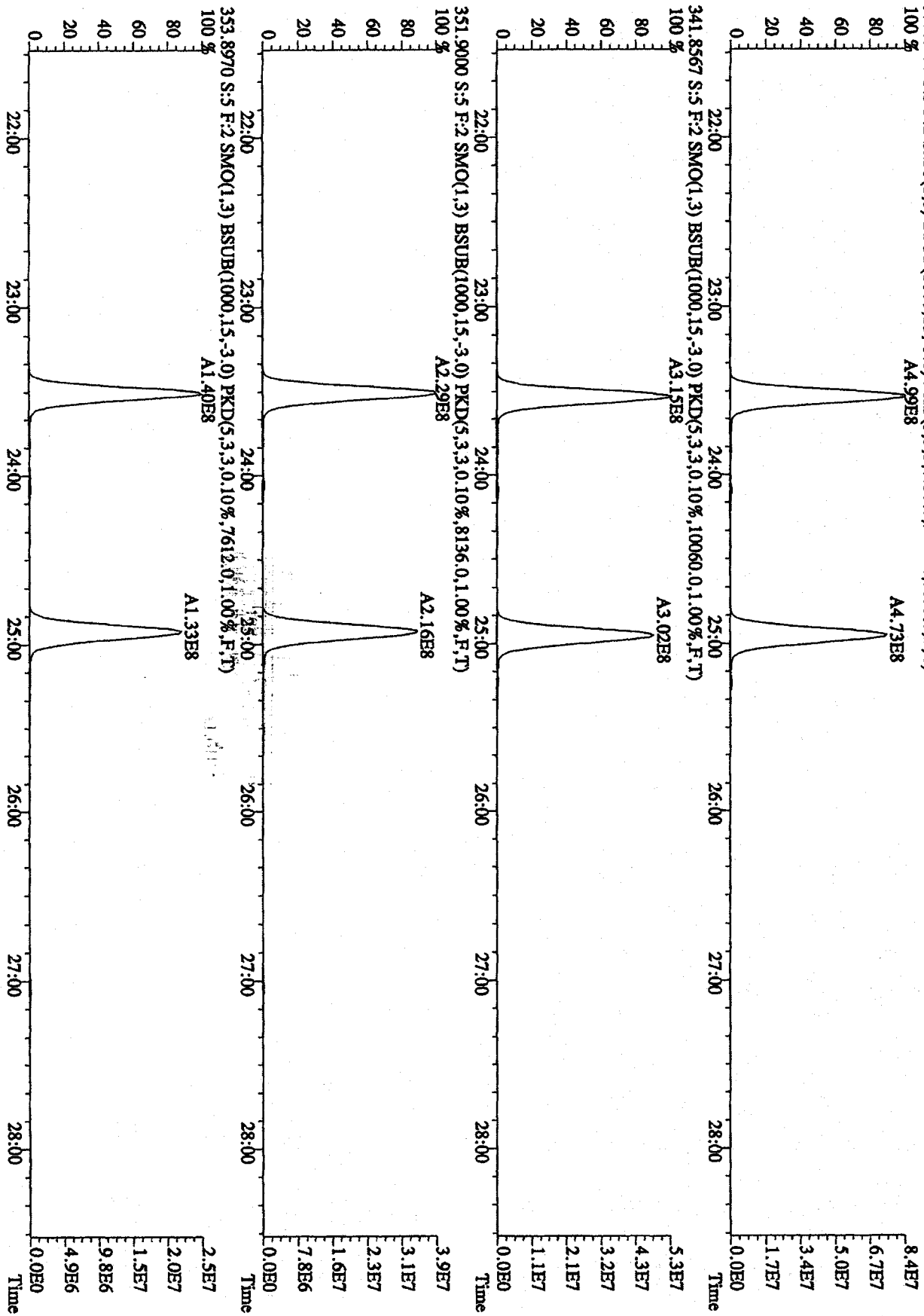


File:31DE09A1D5 #1-496 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE

Sample#5 Text:ST1231E :CS-4 09DDXN426

Exp:DIOXIN

339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9004,0.1,00%,F,T)



8.4E7

6.7E7

5.0E7

3.4E7

1.7E7

0.0E0

Time

28:00

27:00

26:00

25:00

24:00

23:00

22:00

0.0E0

1.1E7

2.1E7

3.2E7

4.3E7

5.3E7

0.0E0

Time

28:00

27:00

26:00

25:00

24:00

23:00

22:00

0.0E0

7.8E6

1.6E7

2.3E7

3.1E7

3.9E7

0.0E0

Time

28:00

27:00

26:00

25:00

24:00

23:00

22:00

0.0E0

4.9E6

9.8E6

1.5E7

2.0E7

2.5E7

0.0E0

Time

28:00

27:00

26:00

25:00

24:00

23:00

22:00

0.0E0

1.40E8

353.8970 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7612,0.1,00%,F,T)

0.0E0

Time

28:00

27:00

26:00

25:00

24:00

23:00

22:00

0.0E0

7.8E6

1.6E7

2.3E7

3.1E7

3.9E7

0.0E0

Time

28:00

27:00

26:00

25:00

24:00

23:00

22:00

0.0E0

1.16E8

351.9000 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8136,0.1,00%,F,T)

0.0E0

Time

28:00

27:00

26:00

25:00

24:00

23:00

22:00

0.0E0

7.8E6

1.6E7

2.3E7

3.1E7

3.9E7

0.0E0

Time

28:00

27:00

26:00

25:00

24:00

23:00

22:00

0.0E0

1.29E8

341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,10060,0.1,00%,F,T)

0.0E0

Time

28:00

27:00

26:00

25:00

24:00

23:00

22:00

0.0E0

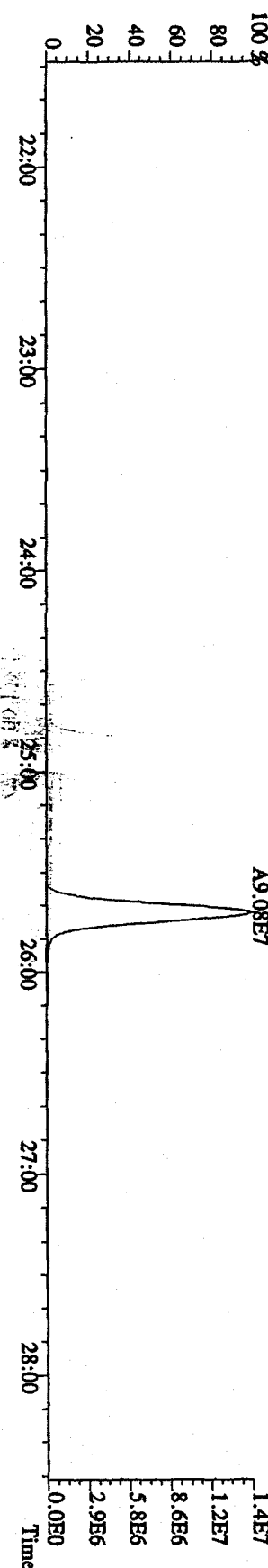
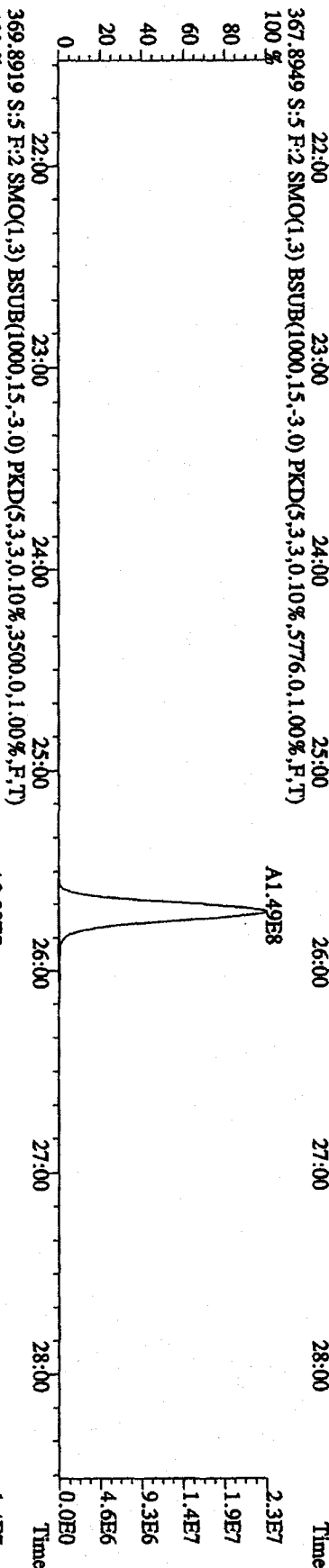
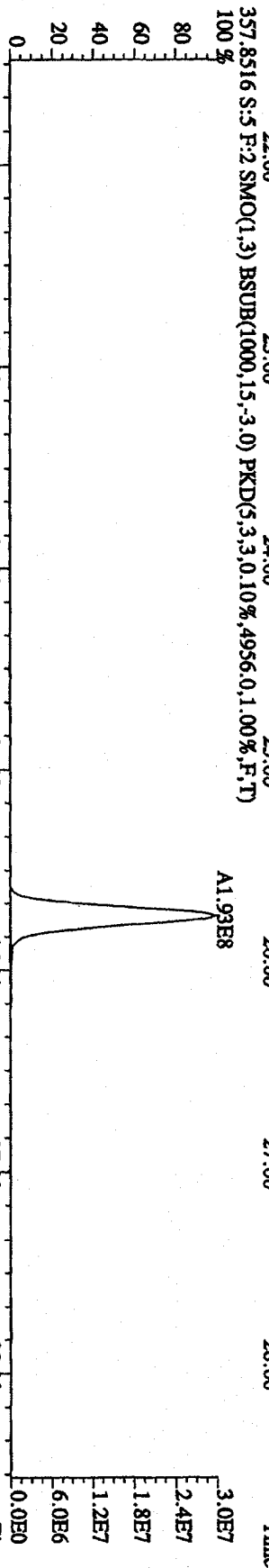
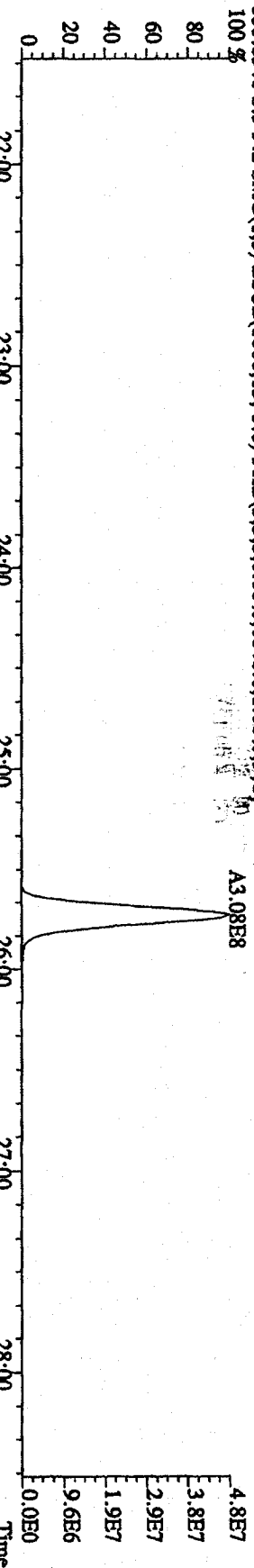
1.15E8

1044 of 1723

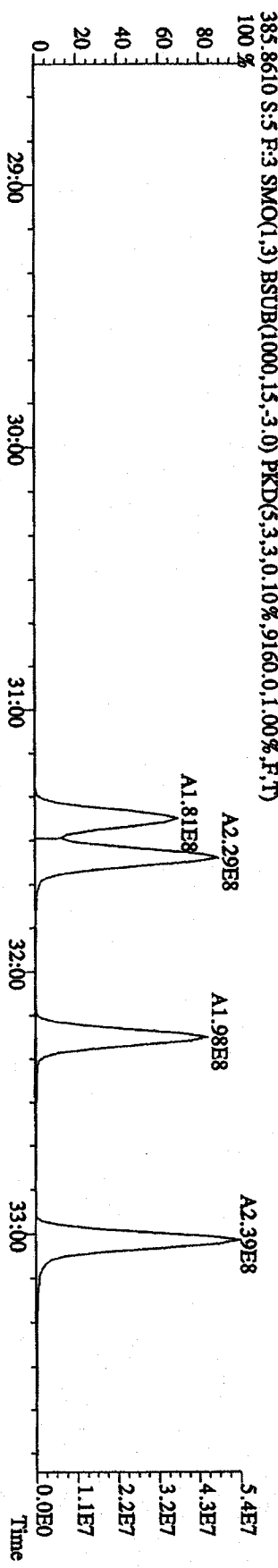
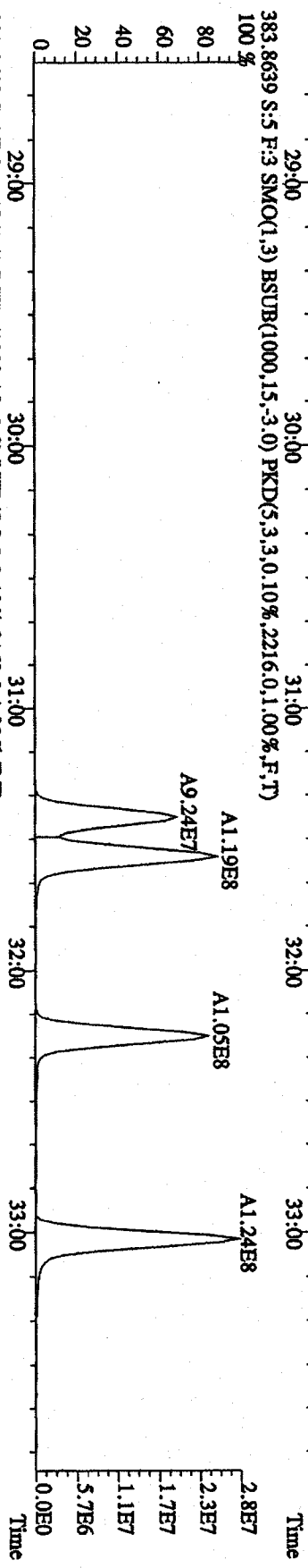
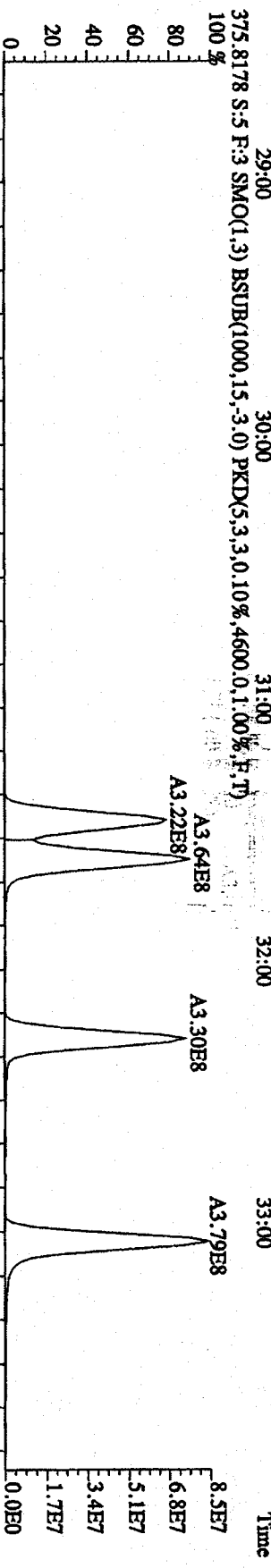
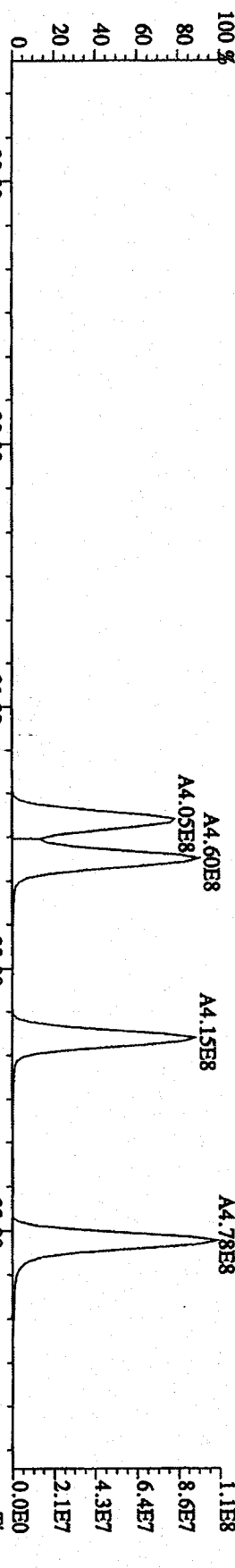
File:31DE09A1D5 #1-496 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE

Sample#5 Text:ST1231E :CS-4 09DDXN426 Exp:DIOXIN

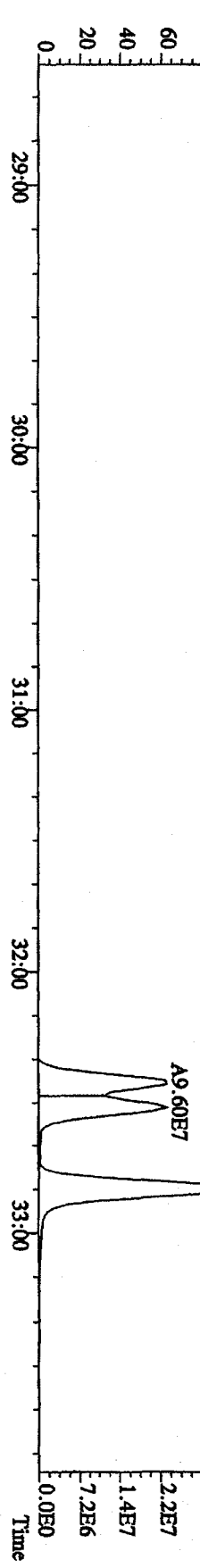
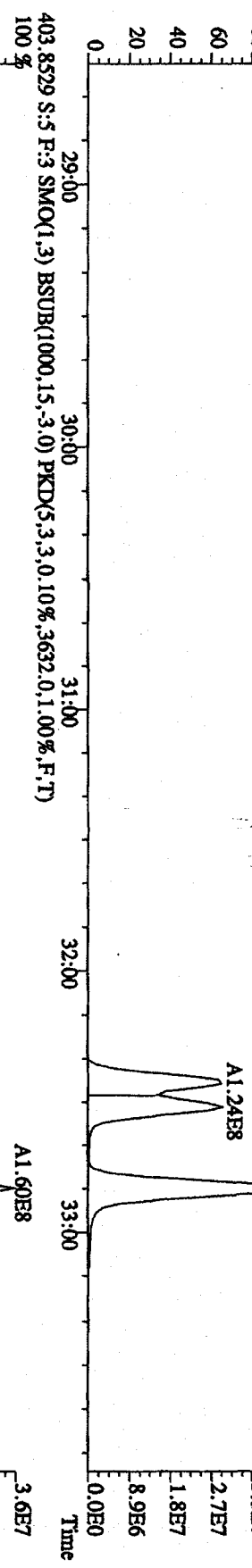
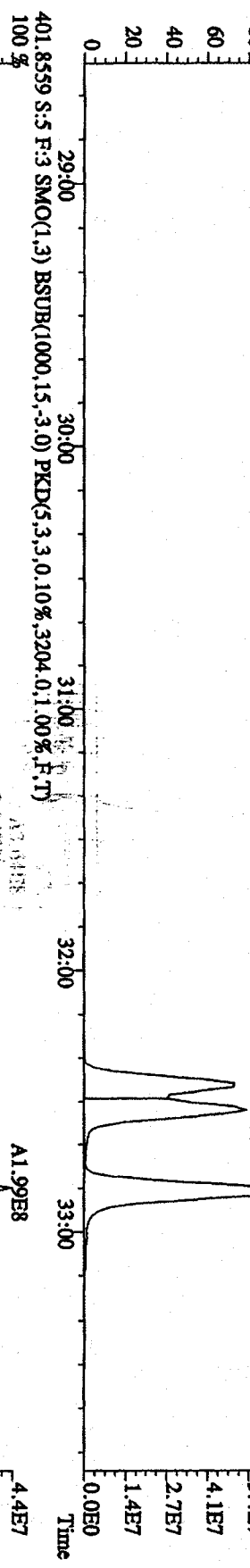
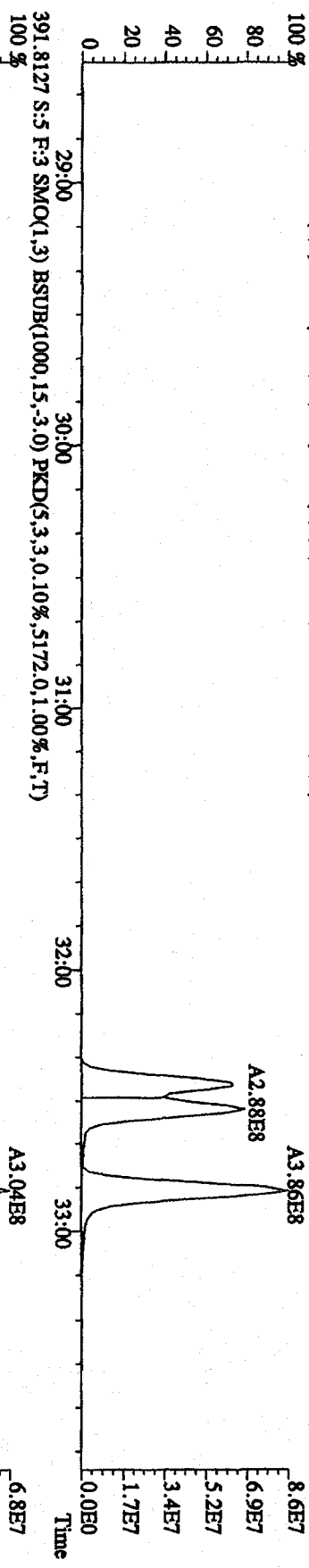
355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6848,0.1,00%,F,T)



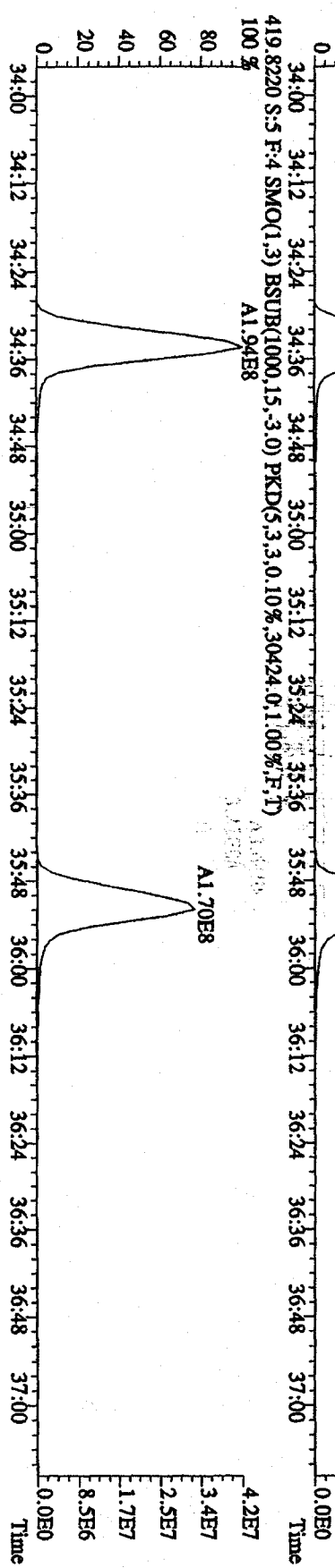
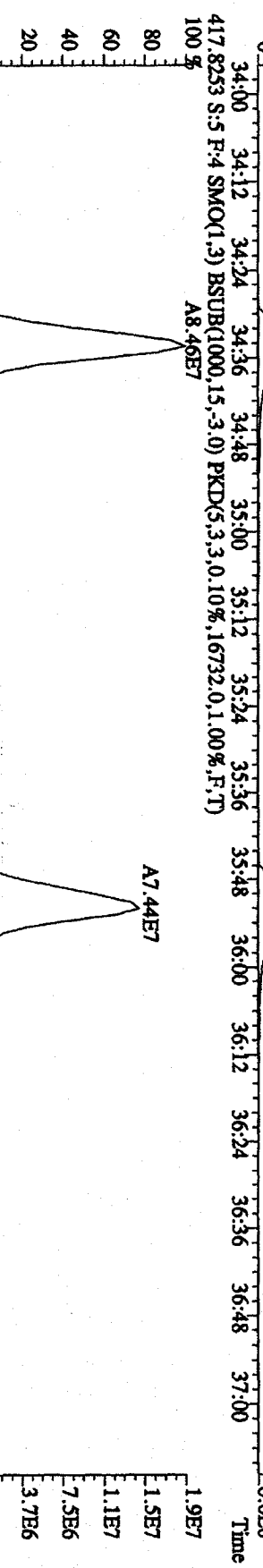
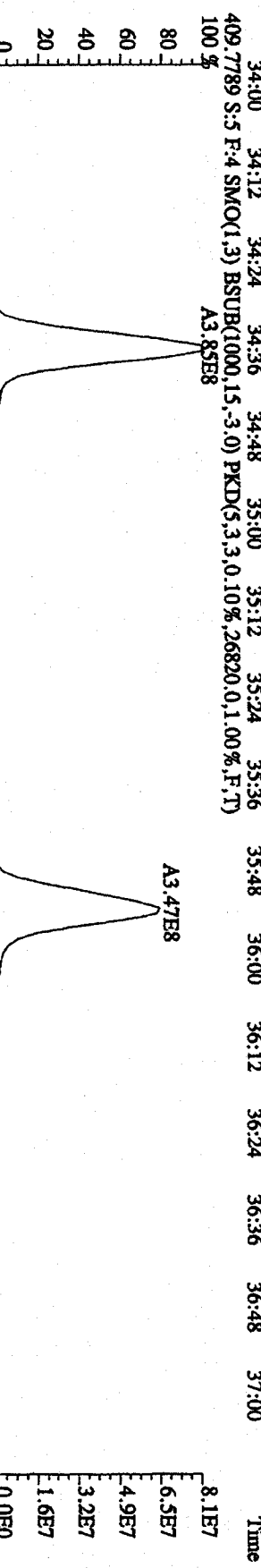
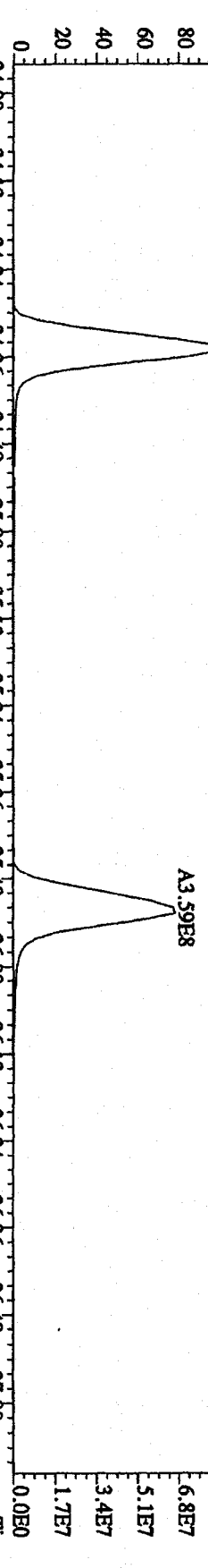
File:31DE09A1D5 #1-361 Acq: 1-1AN-2010 02:14:32 GC EI + Voltage SIR 70SE
 Sample#5 Text:ST1231E :CS-4 09DXN426 Exp:DIOXIN
 373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4496,0,1,00%,F,T)



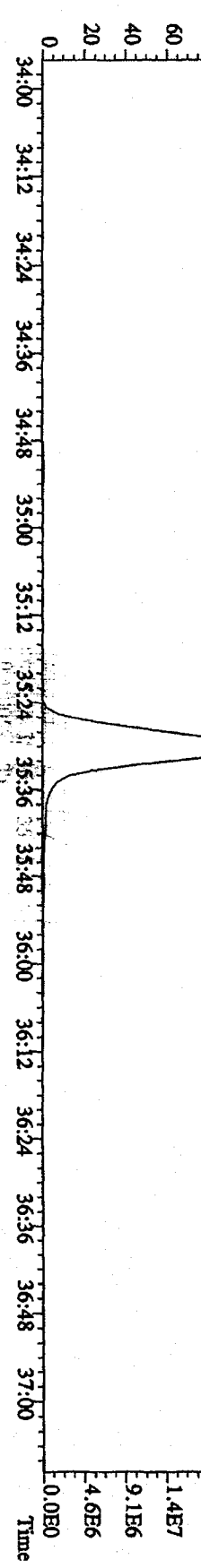
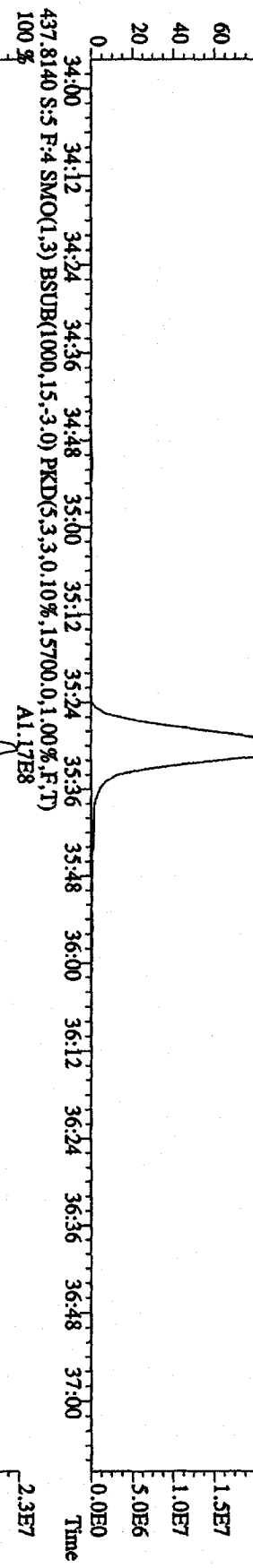
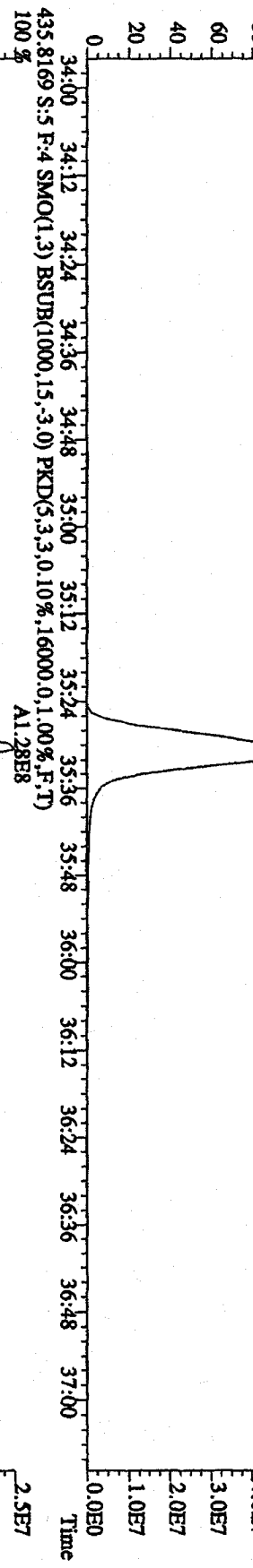
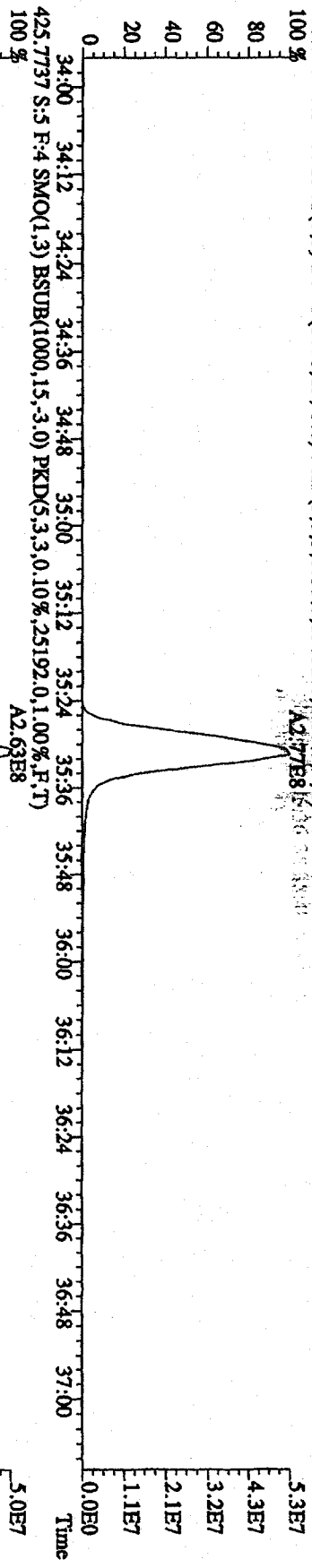
File:31DE09A1D5 #1-361 Acq: 1-JAN-2010 02:14:32 GC EI + Voltage SIR 70SE
 Sample#5 Text:ST1231E :CS-4 09DXN426 Exp:DIOXIN
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,3028,0,1.00%,F,T)
 100 %



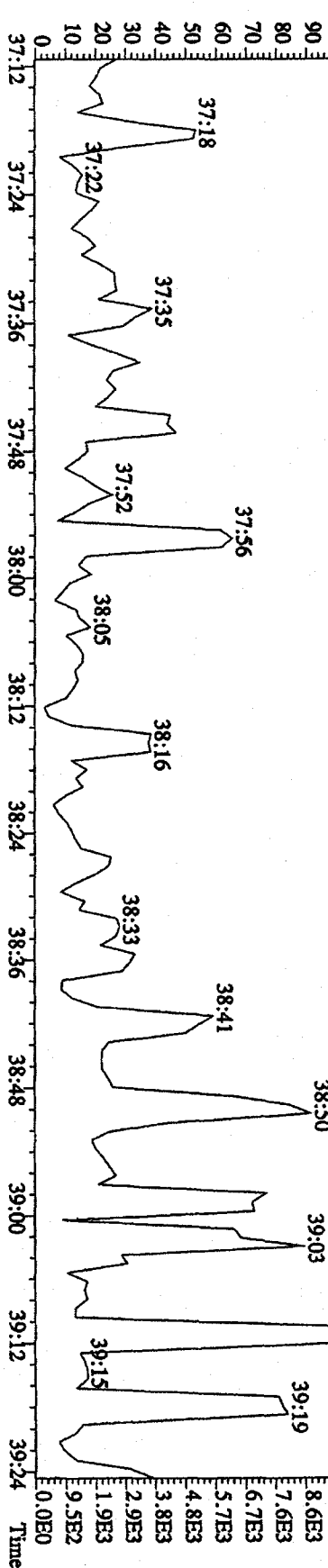
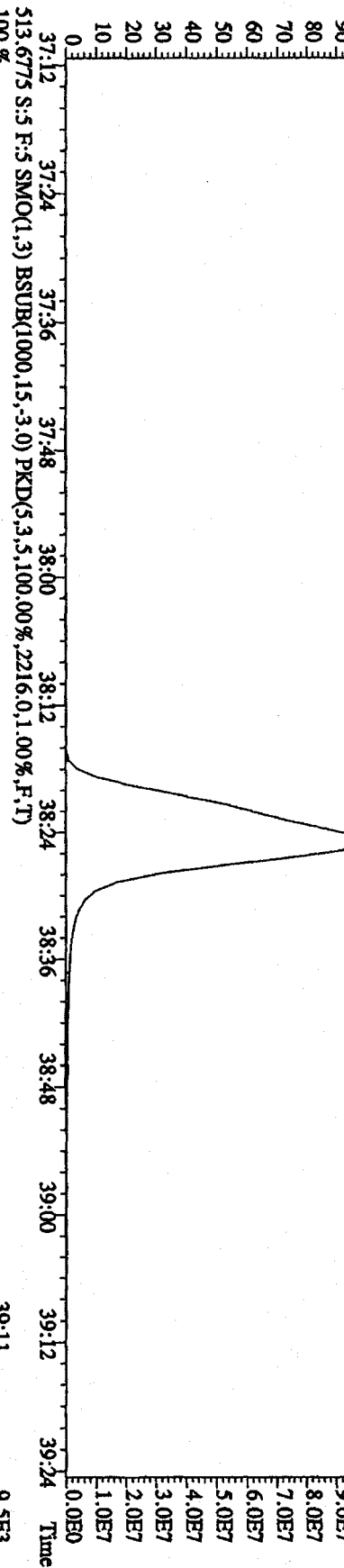
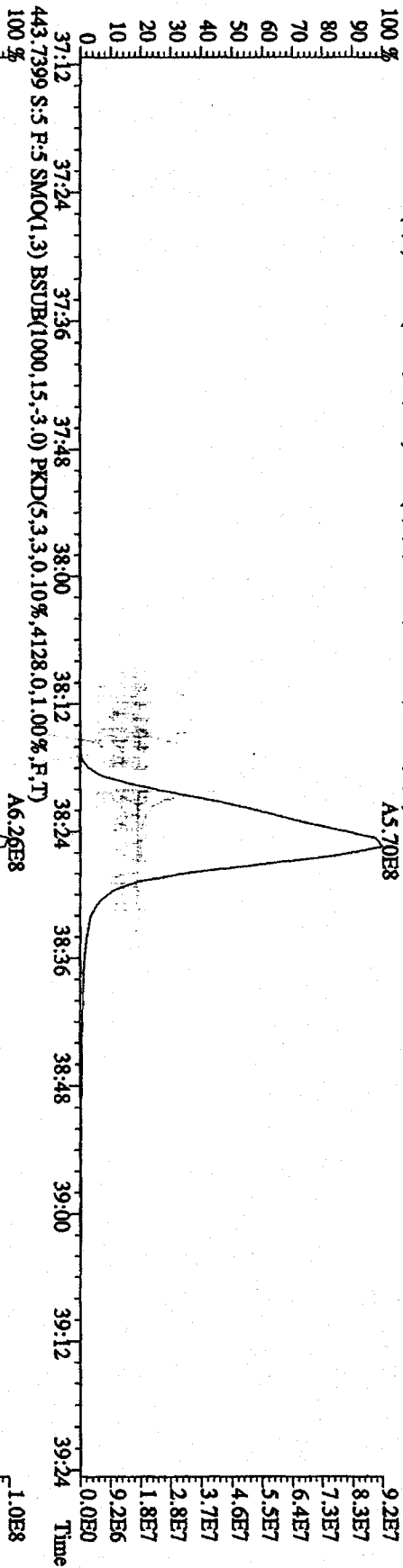
File: 31DB09AIDS #1-228 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE
 Sample#5 Text: ST1231E :CS-4 09DDXN426 Exp: DIOXIN
 407.7818 S:5 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,26764,0,1,00%,F,T)
 100 % A3.99E8



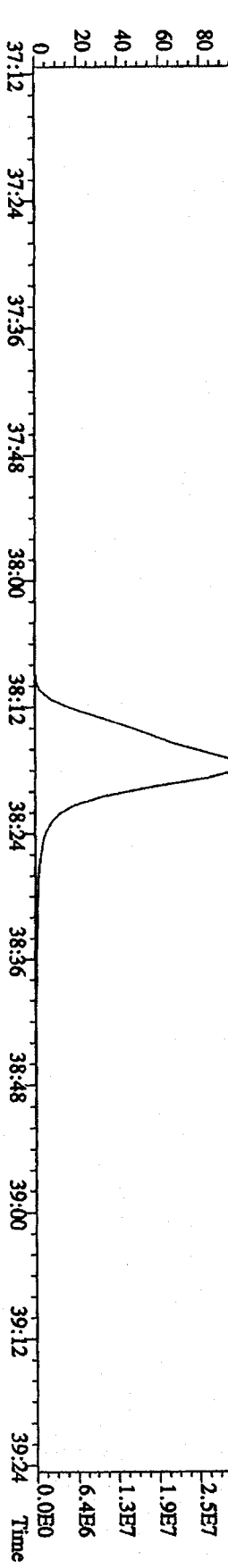
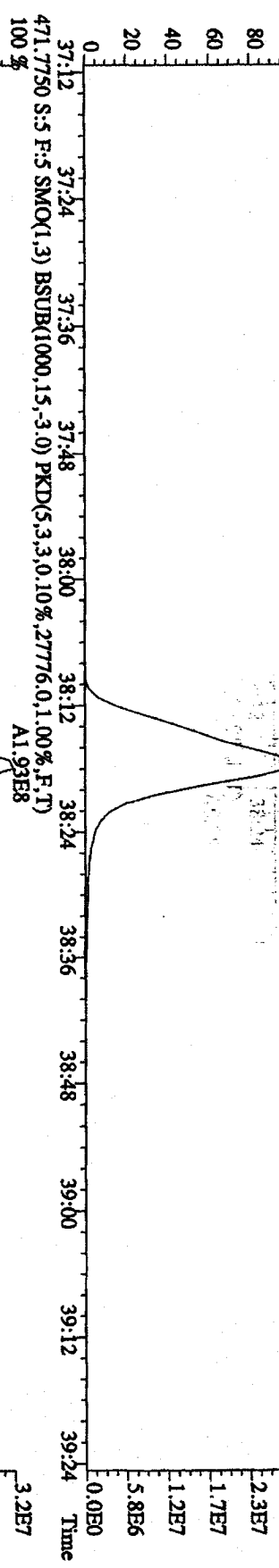
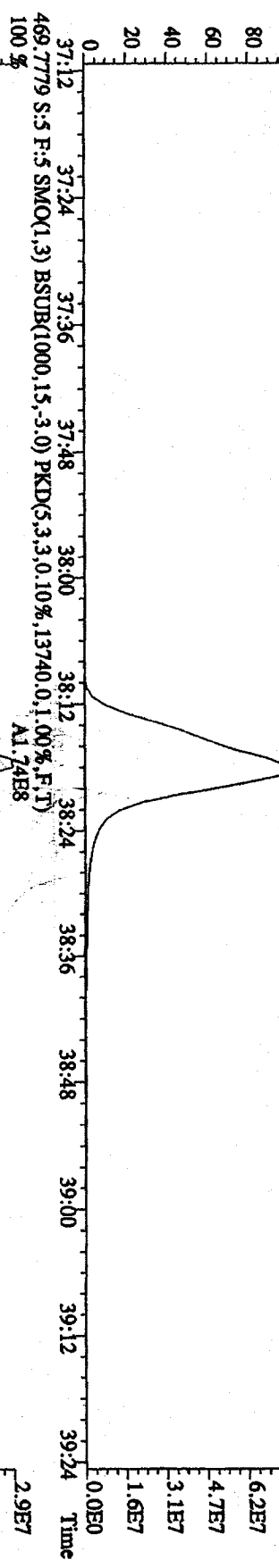
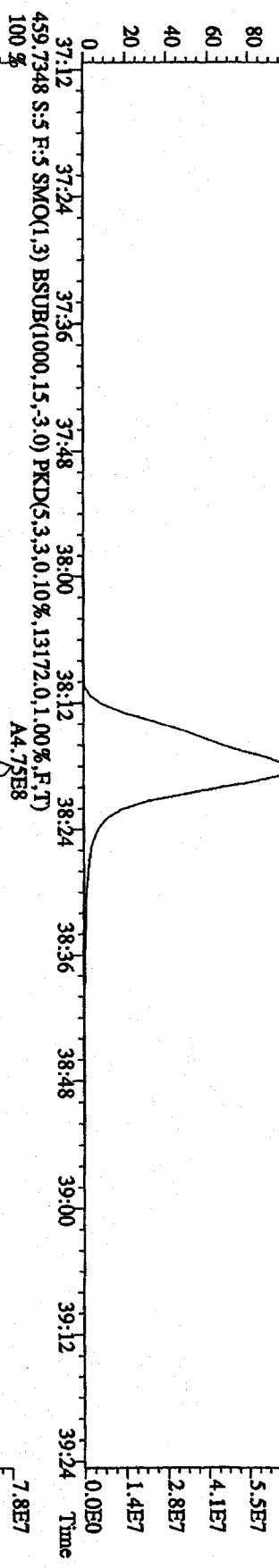
File: 31DE09A1D5 #1-228 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE
 Sample#5 Text: ST1231E :CS-4 09DXM426 Exp: DIOXIN
 423.7766 S:5 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22832.0,1.00%,F,T)
 A2.77E8



File:31DE09A1D5 #1-161 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1231E :CS-4 09DXN426 Exp:DIOXIN
 441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.32256,0.1,00%,F,T)



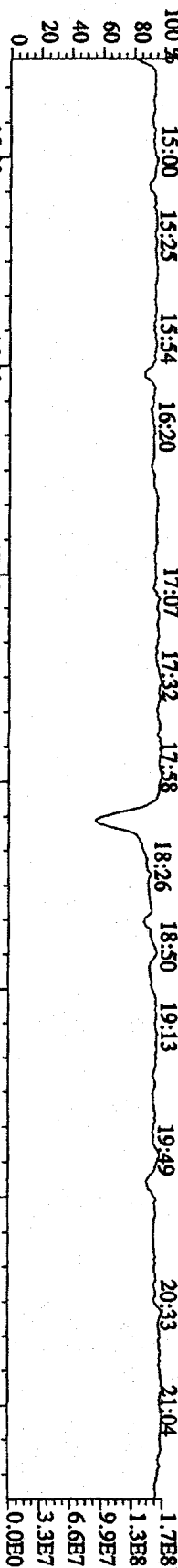
File:31DE09A1D5 #1-161 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1231E :CS-4 09DXN426 Exp:DIOXIN
 457.7377 S:5 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,17292.0,1.00%,F,T)
 100 % A4.26E8



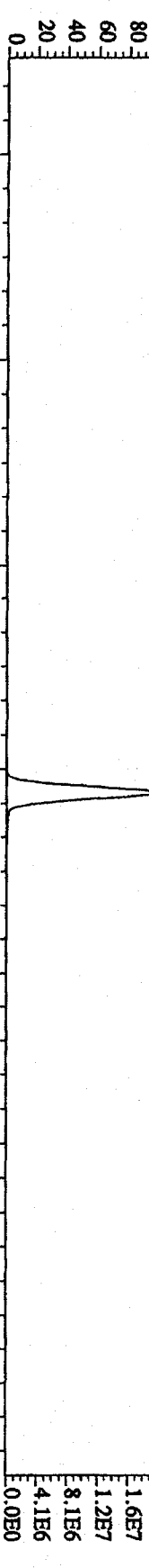
File:3IDEB9AIDS #1-410 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE

Sample#5 Text:ST1231E :CS-4 09DXN426 Exp:DIOXIN

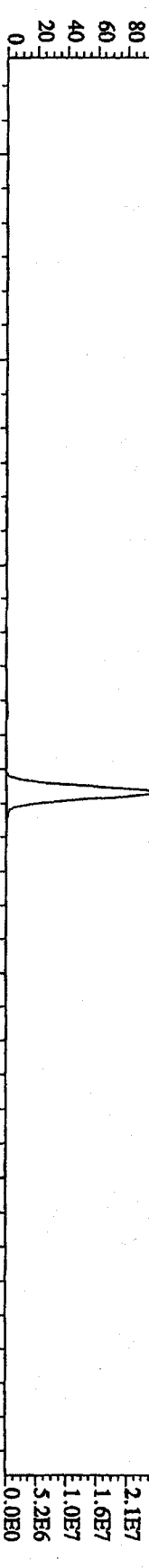
292.9825 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



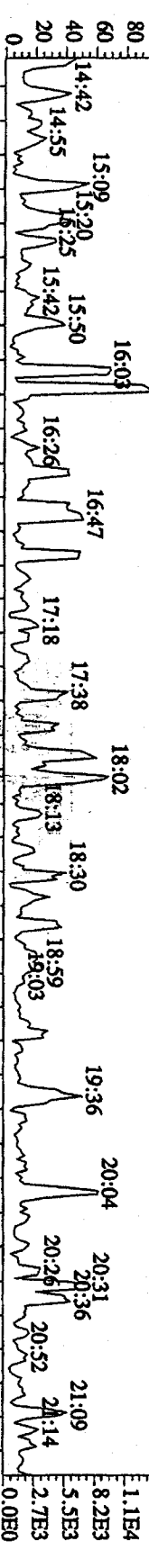
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7872.0,1.00%,F,T) A8.72E7



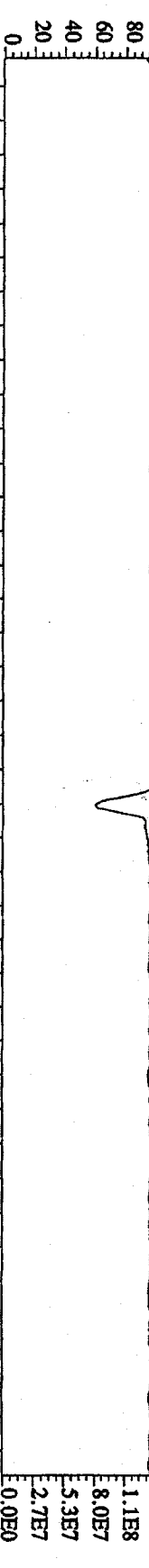
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7356.0,1.00%,F,T) A1.14E8



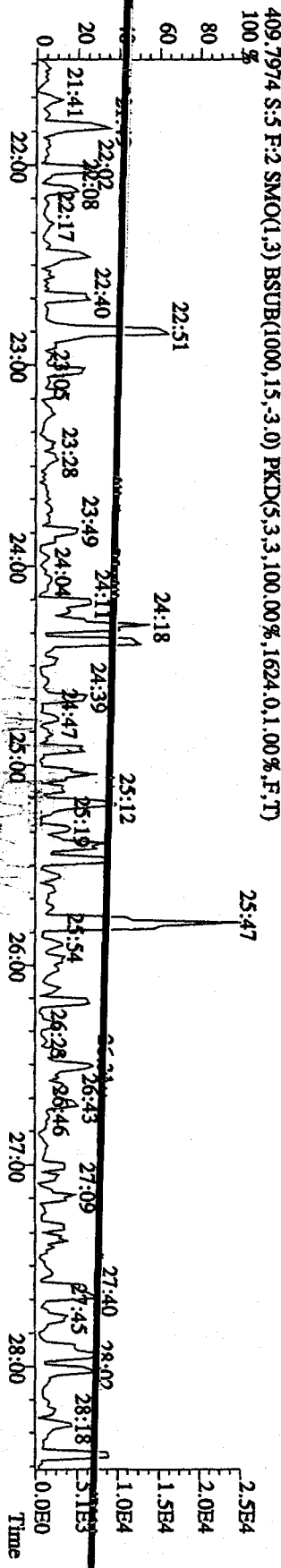
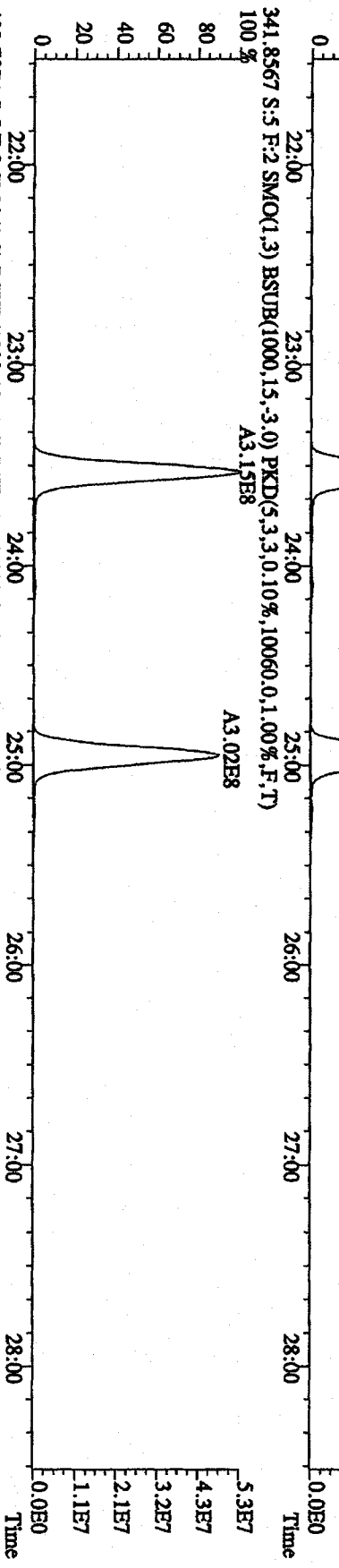
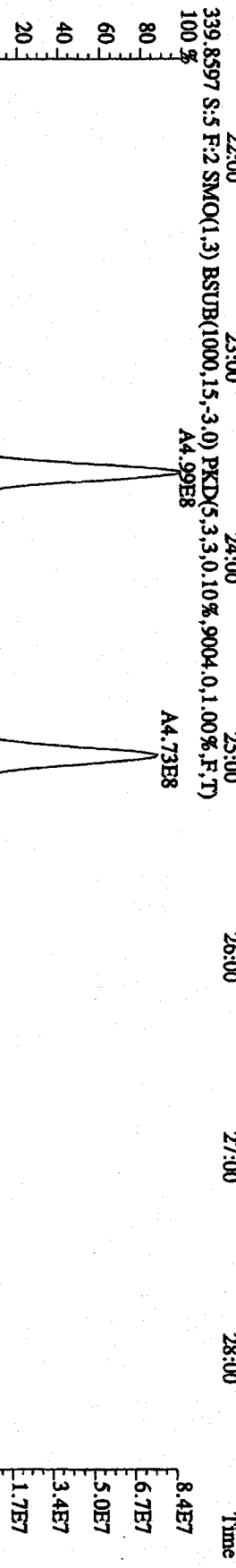
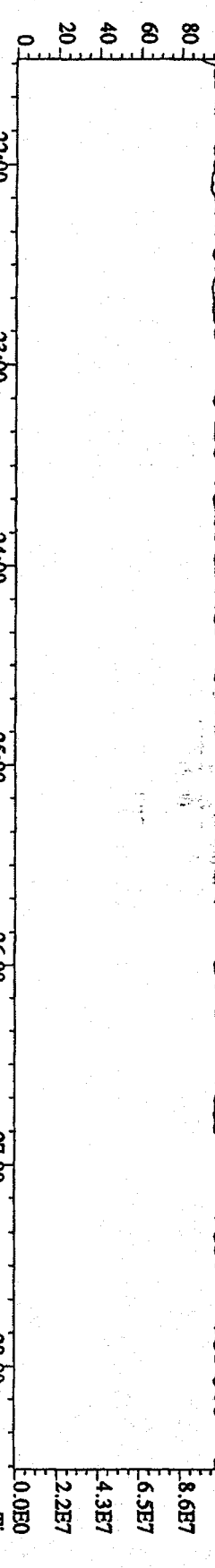
375.8364 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2032.0,1.00%,F,T)



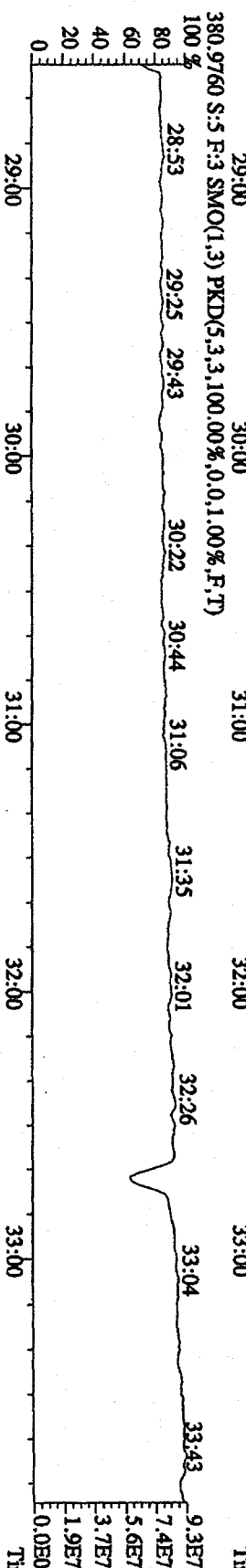
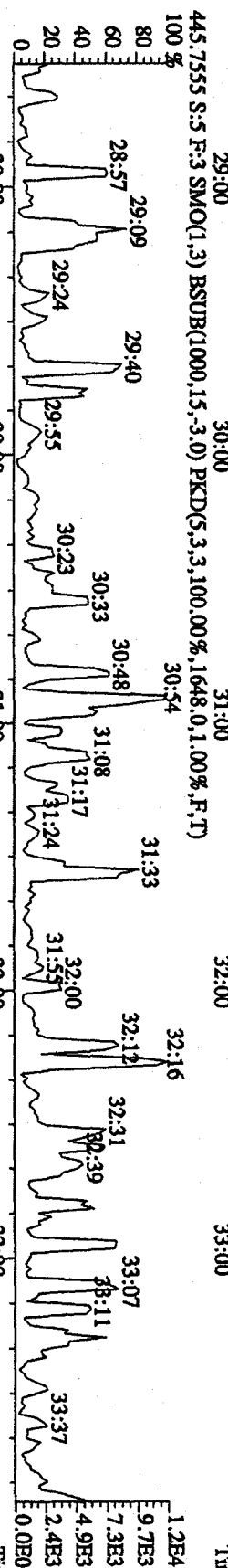
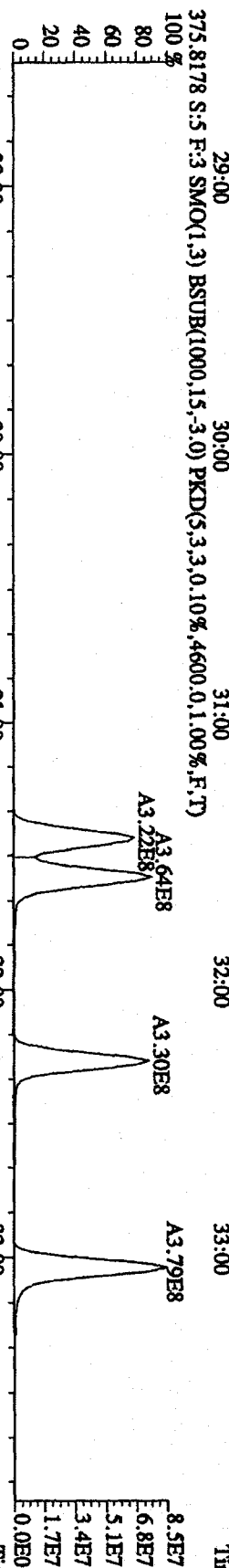
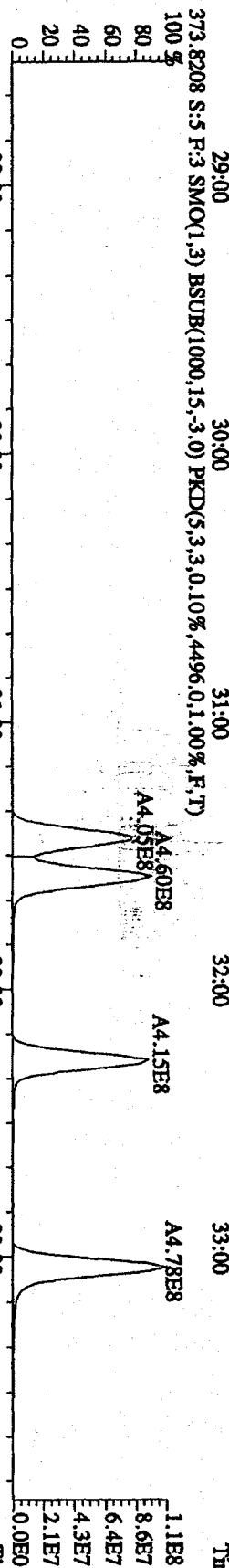
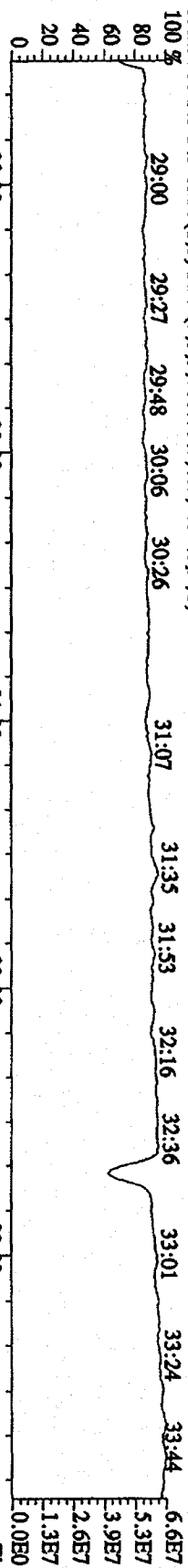
330.9792 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 31DE09A1D5 #1-496 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE
 Sample#5 Test: ST1231E :CS-4 09DXN426 Exp: DIOXIN
 342.9792 S.S.F:2 SMO(1.3) PKD(3.3,3,100.00%,0.0,1.00%,F,T)
 100% 21:48 22:30 23:15 23:54 24:28 25:12 25:44 26:05 26:30 26:53 27:39 28:22



File:31DEC09A1D5 #1-361 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1231E :CS-4 09DDXN426 Exp:DIOXIN
 392.9760 S:5 F:3 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)
 373.8208 S:5 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,4496,0.1,00%,F,T)
 375.8178 S:5 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,4600,0.1,00%,F,T)
 445.7555 S:5 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.100.00%,0.0,1.00%,F,T)

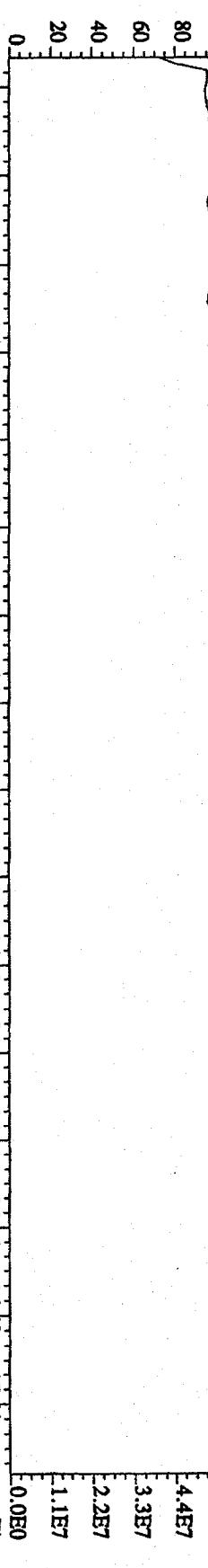


File:31DE09A1D5 #1-228 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE

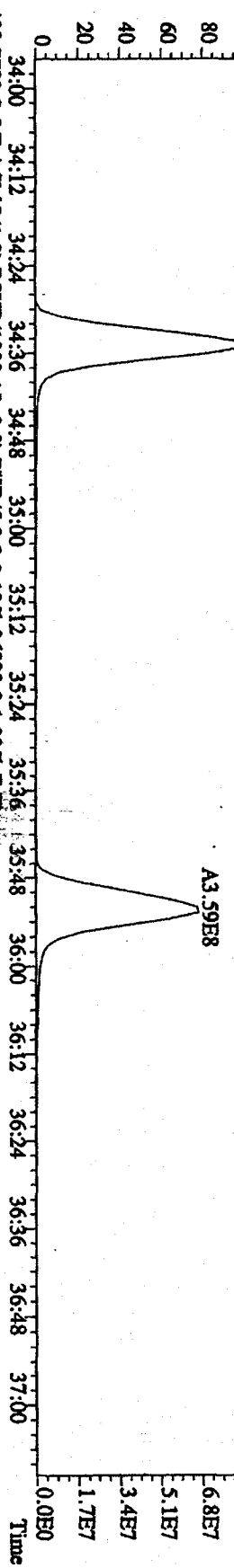
Sample#5 Text:ST1231E :CS 4 09DXN426 Exp:DIOXIN

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

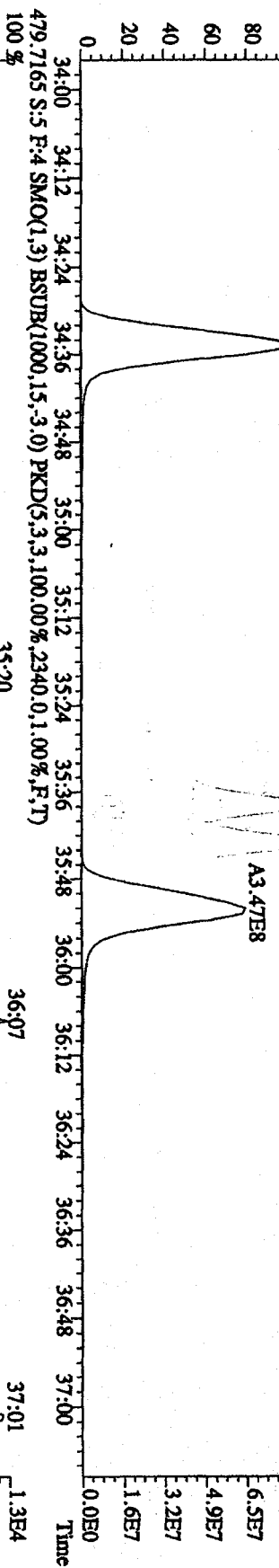
100% 34:10 34:23 34:42 34:55 35:05



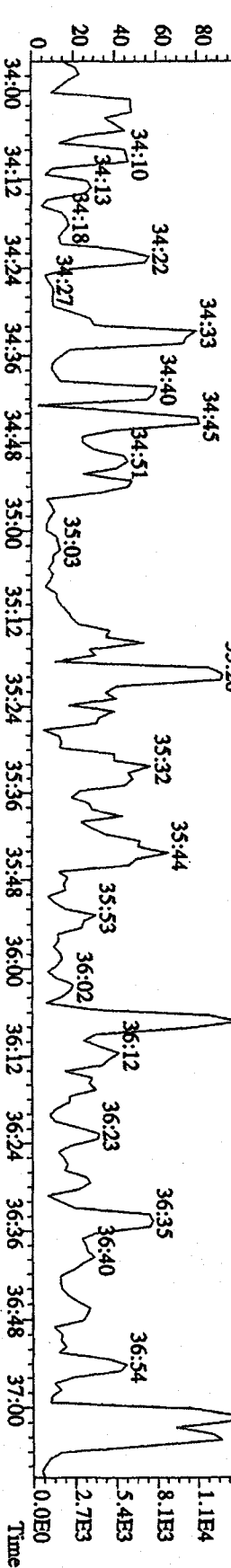
407.7818 S.S:F:4 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,26764.0,1.00%,F,T)



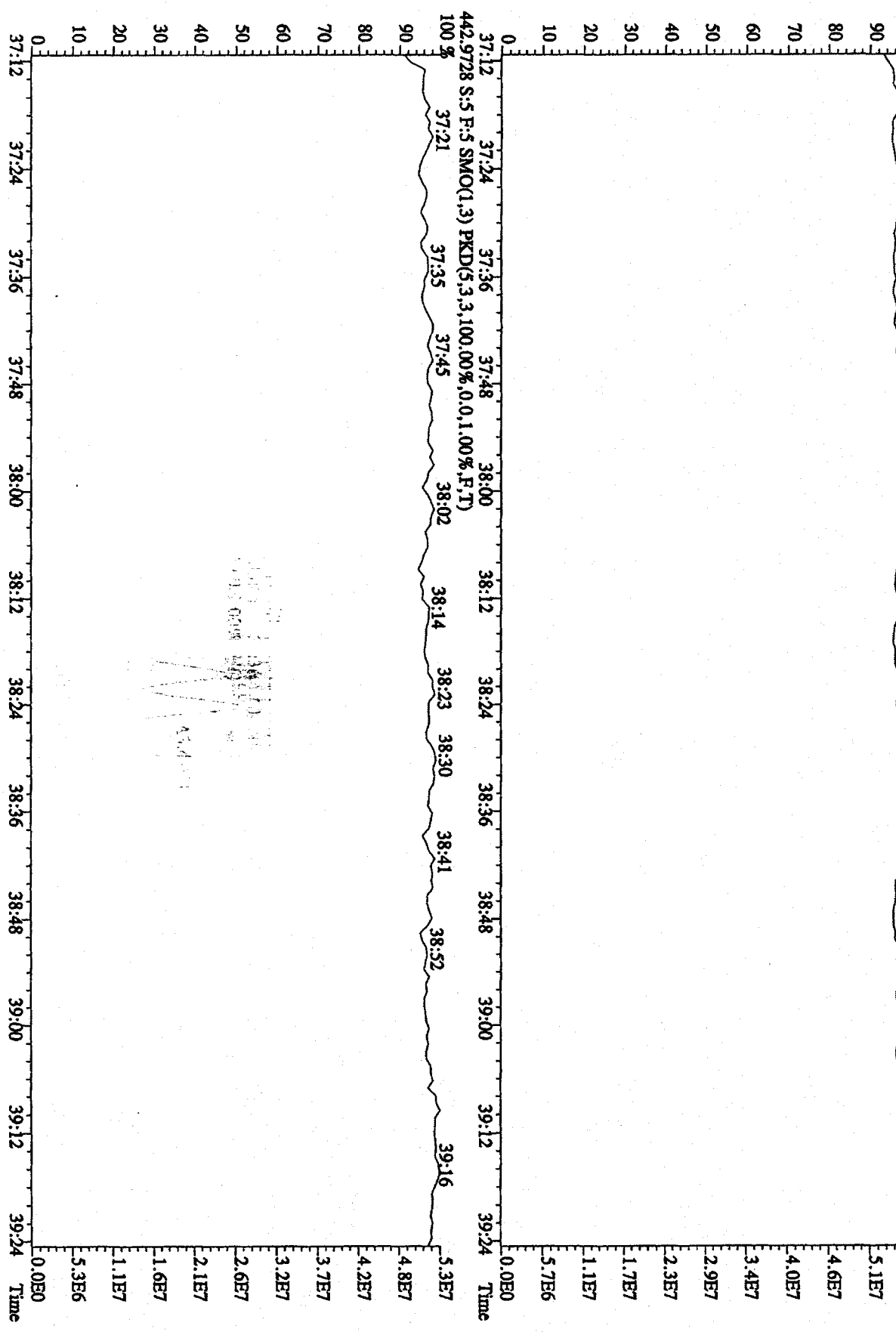
409.7789 S.S:F:4 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,26820.0,1.00%,F,T)



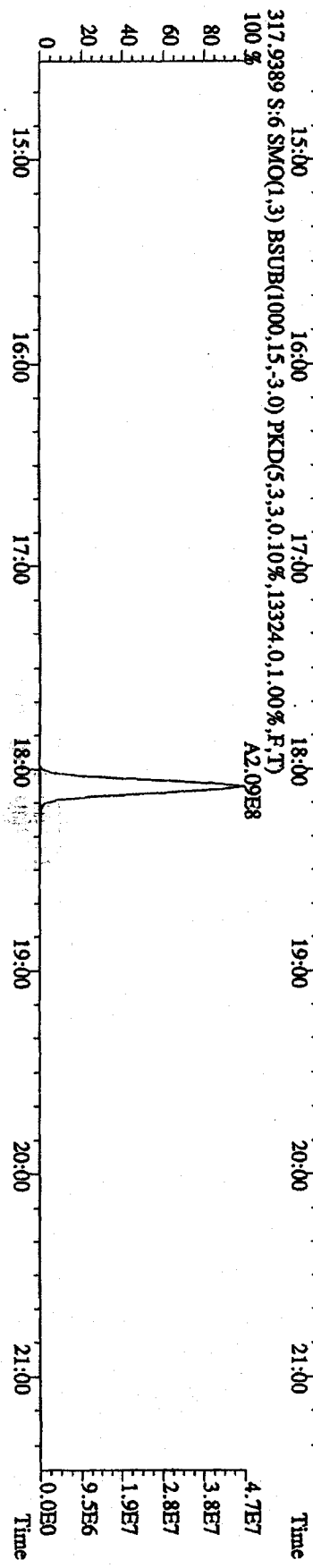
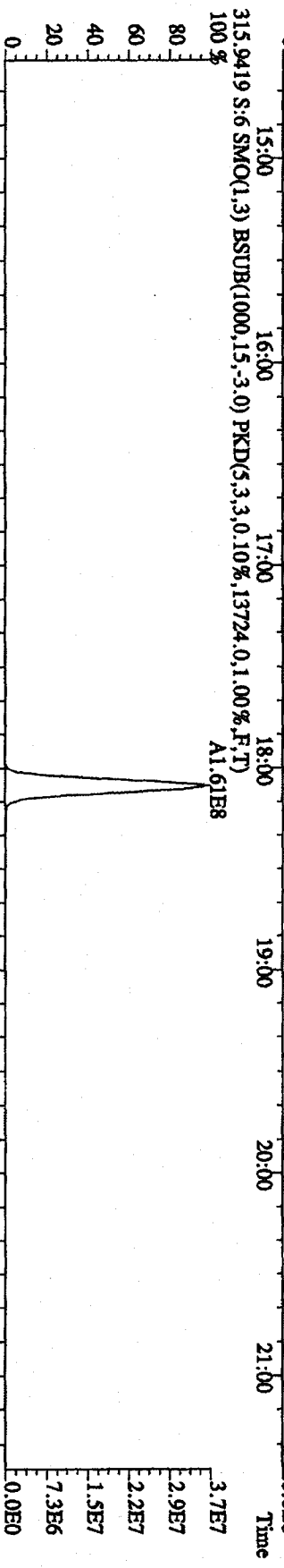
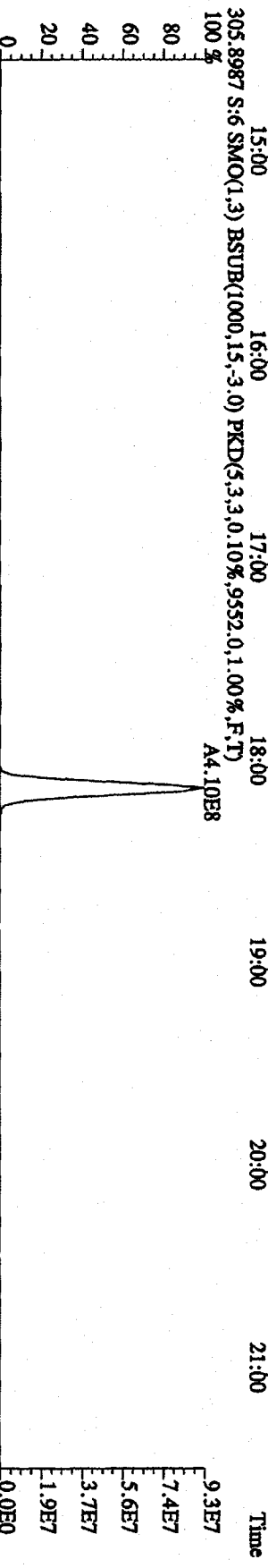
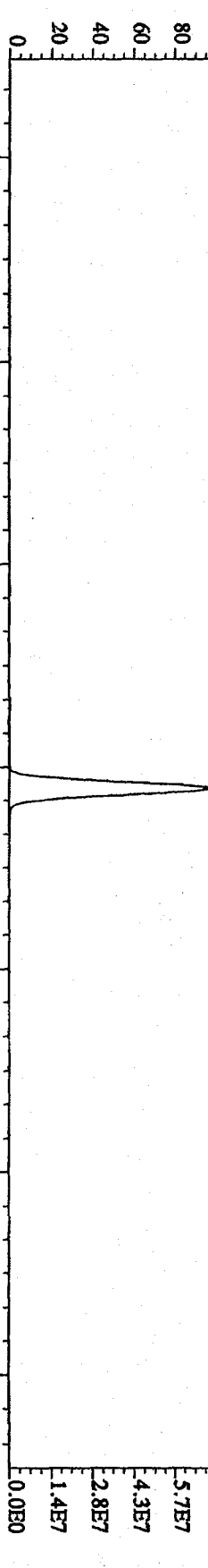
479.7165 S.S:F:4 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,100.00%,2340.0,1.00%,F,T)



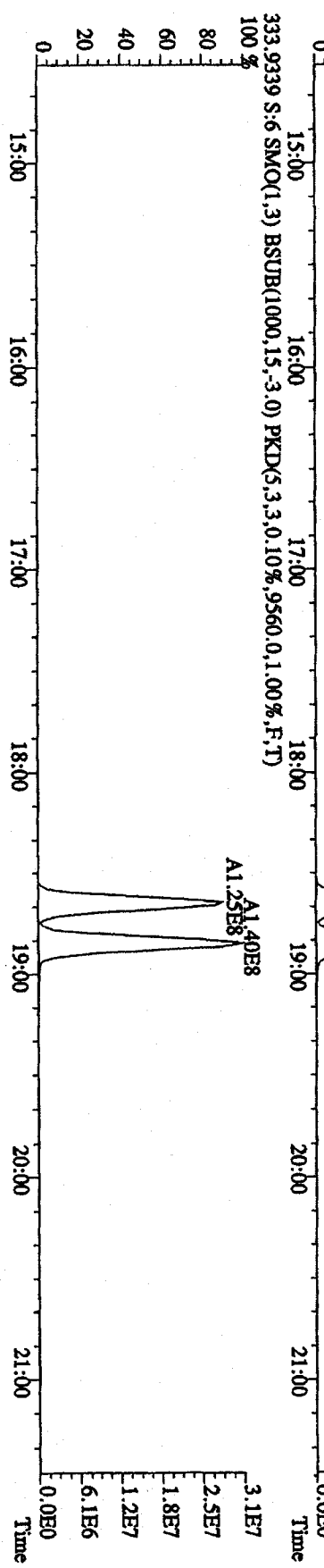
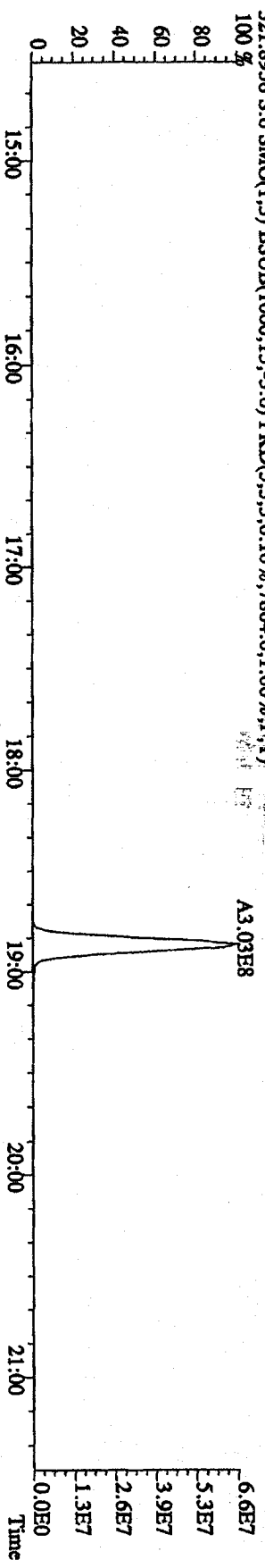
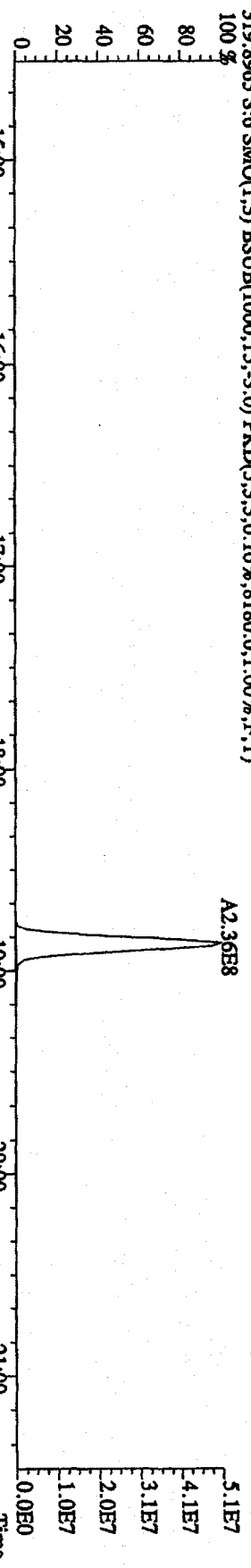
File: 31DE09A1D5 #1-161 Acq: 1-JAN-2010 02:14:32 GC EI+ Voltage SIR 70SE
 Sample#5 Text: ST1231E :CS-4 09DXN426 Exp: DIOXIN
 454.9728 S:5 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)
 100% 37:16 37:27 37:43 37:50 38:02 38:12 38:22 38:30 38:39 38:53 39:15



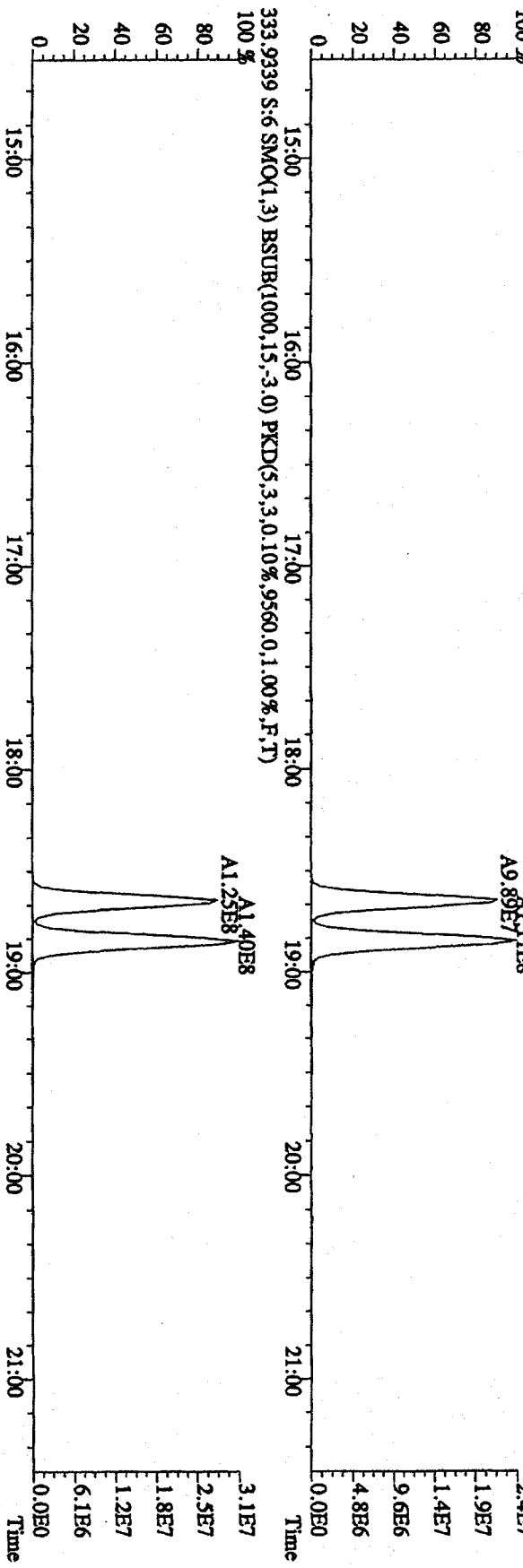
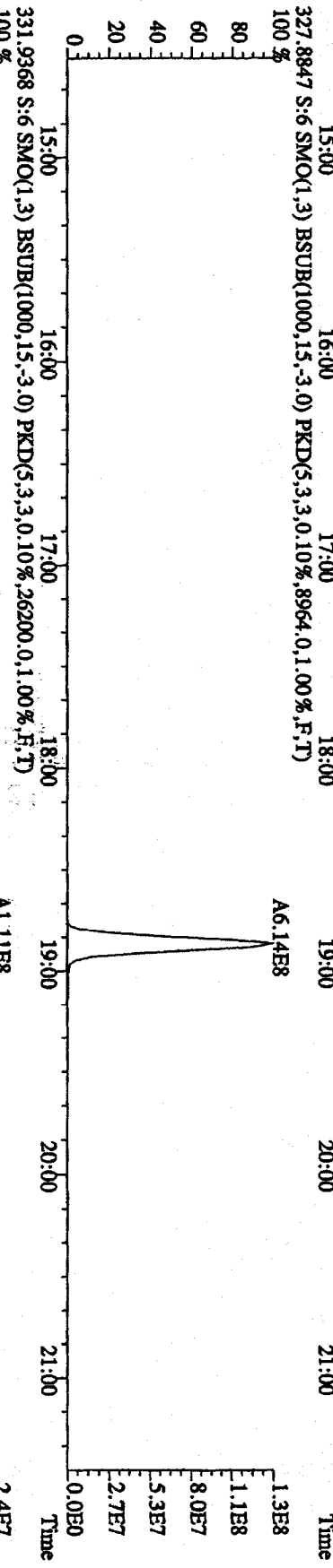
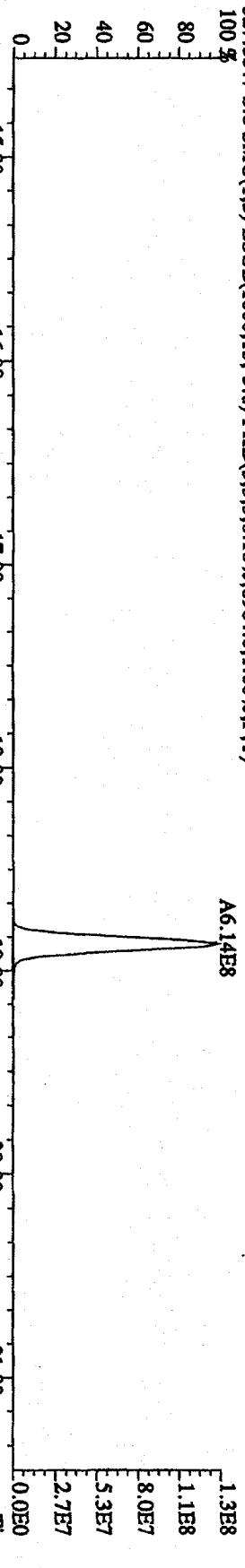
File:31DE09AIDS #1-411 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1231F :CS-5 09DXM456 Exp:DIOXIN
 303.9016 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,9492.0,1.00%,F,T)
 100 %



File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1231F :CS-5 09DXN456 Exp:DIOXIN
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8180,0,1,00%,F,T)
 100%



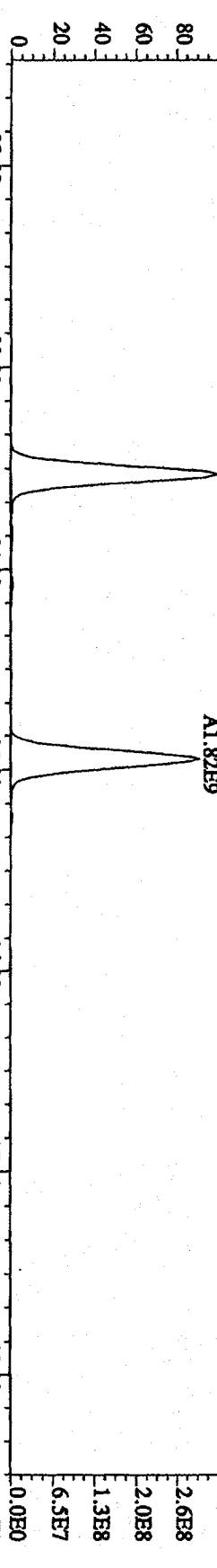
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1231F :CS-5 09DXN456 Exp:DIOXIN
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8964,0,1,00%,F,T)
 100 %



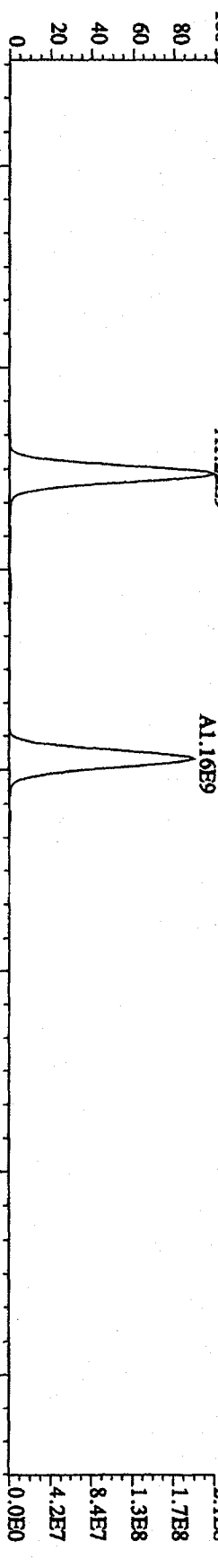
File:31DE09A1D5 #1-495 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SFR 70SE

Sample#6 Text:ST1231F :CS-5 09DXN456 Exp:DIOXIN

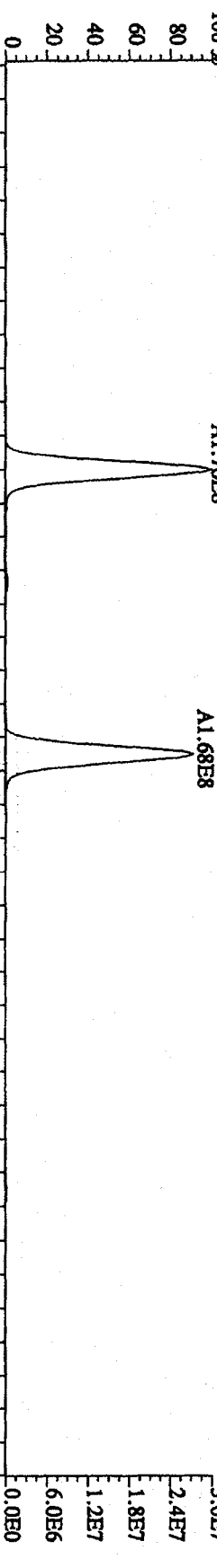
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,21616,0,1,00%,F,T) 100% A1.91E9



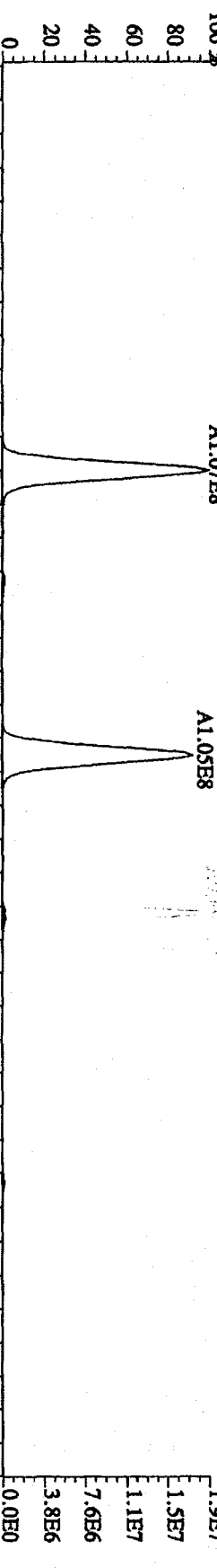
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11104,0,1,00%,F,T) 100% A1.22E9



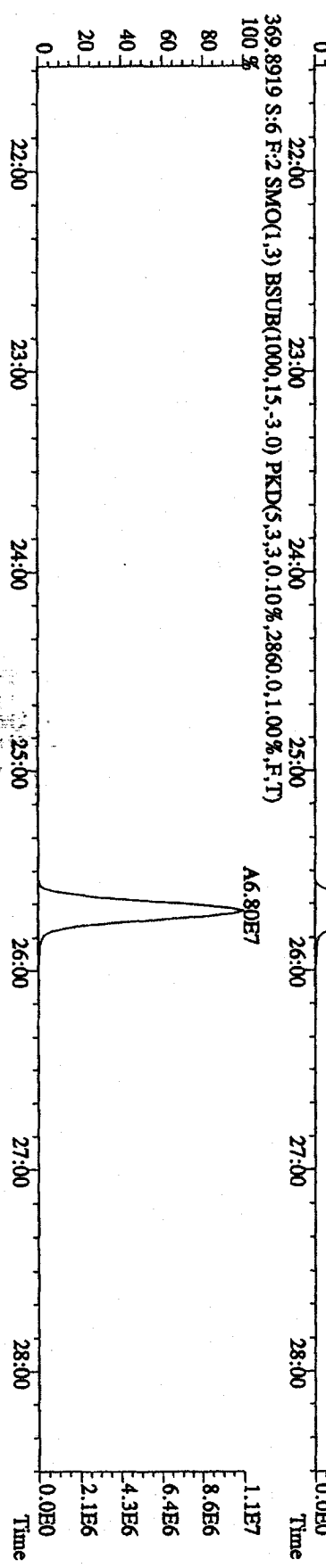
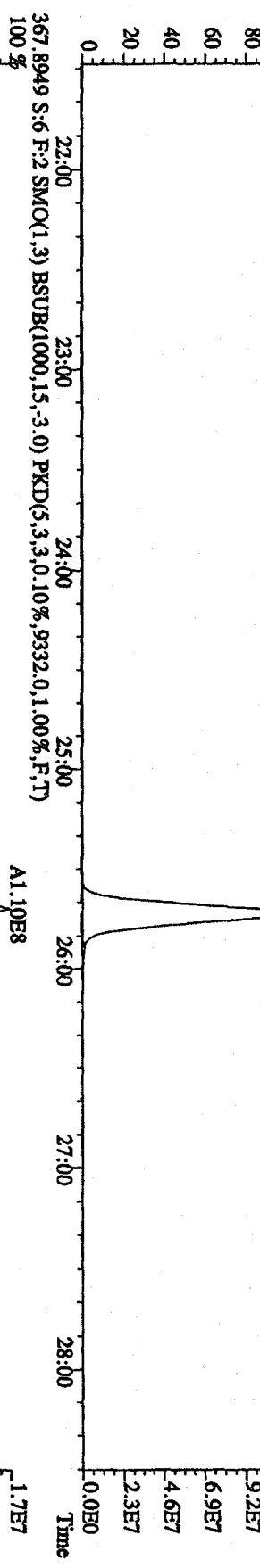
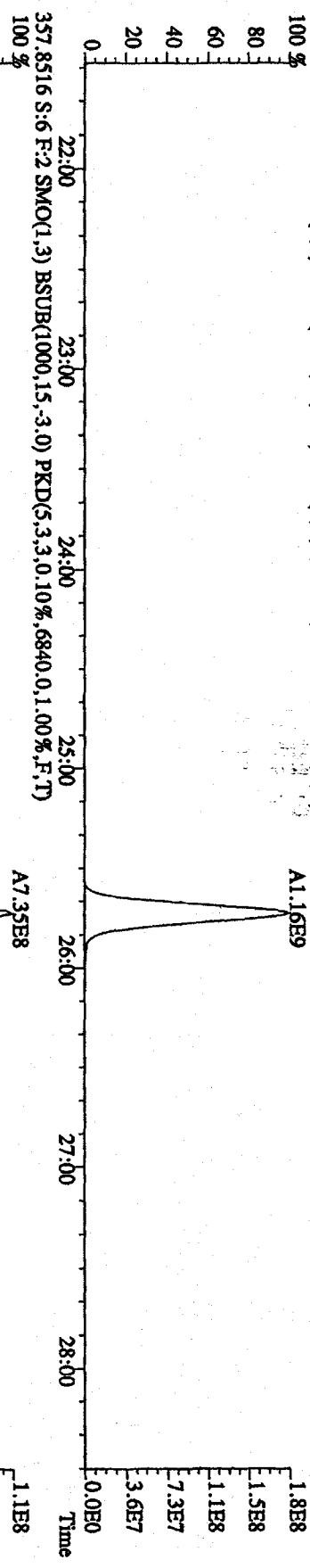
351.9000 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5164,0,1,00%,F,T) 100% A1.76E8



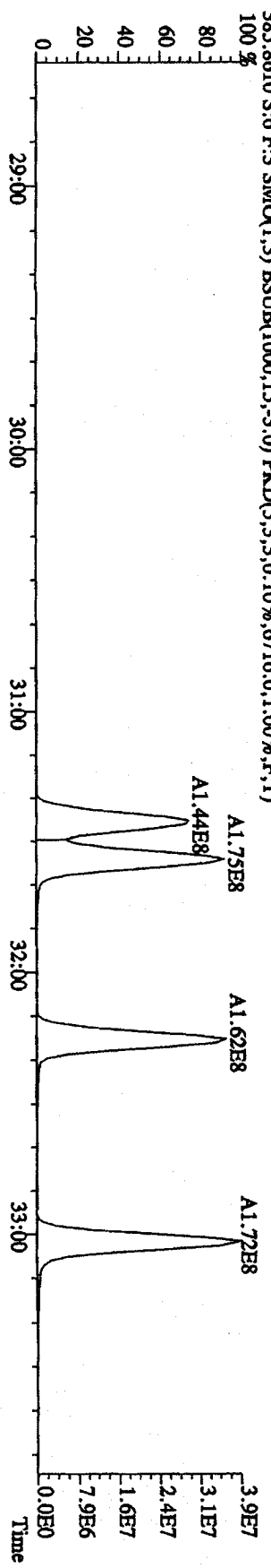
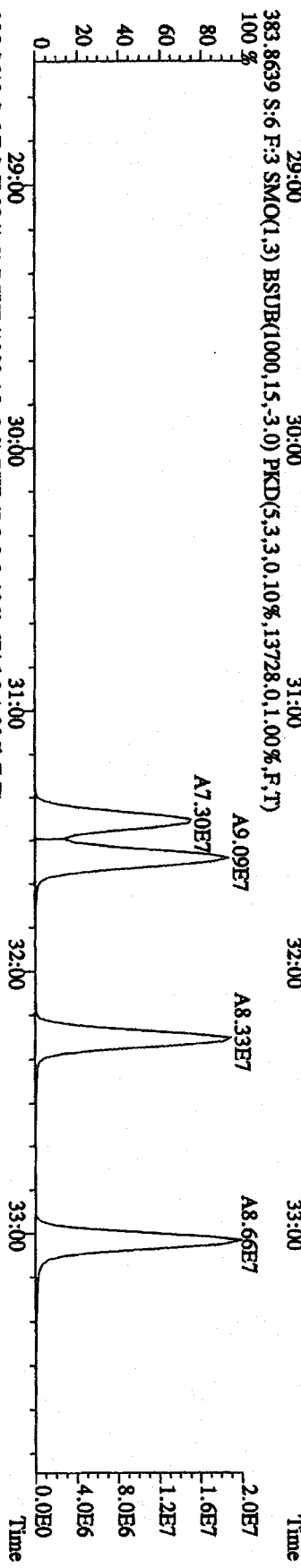
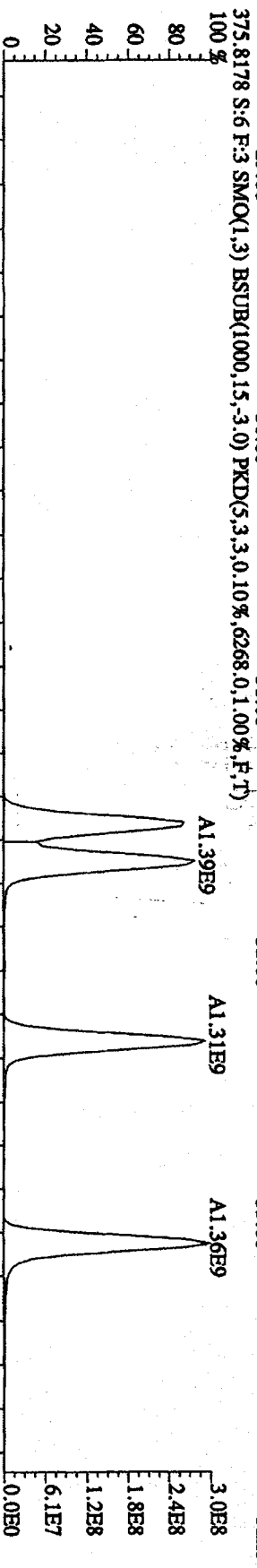
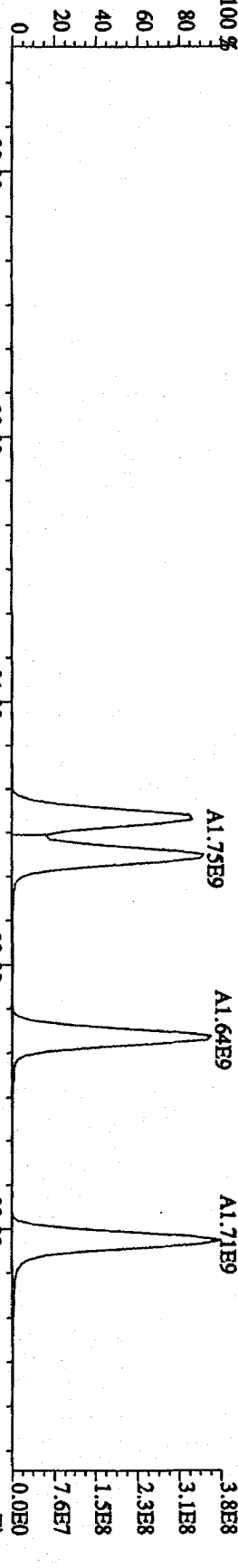
353.8970 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8524,0,1,00%,F,T) 100% A1.07E8



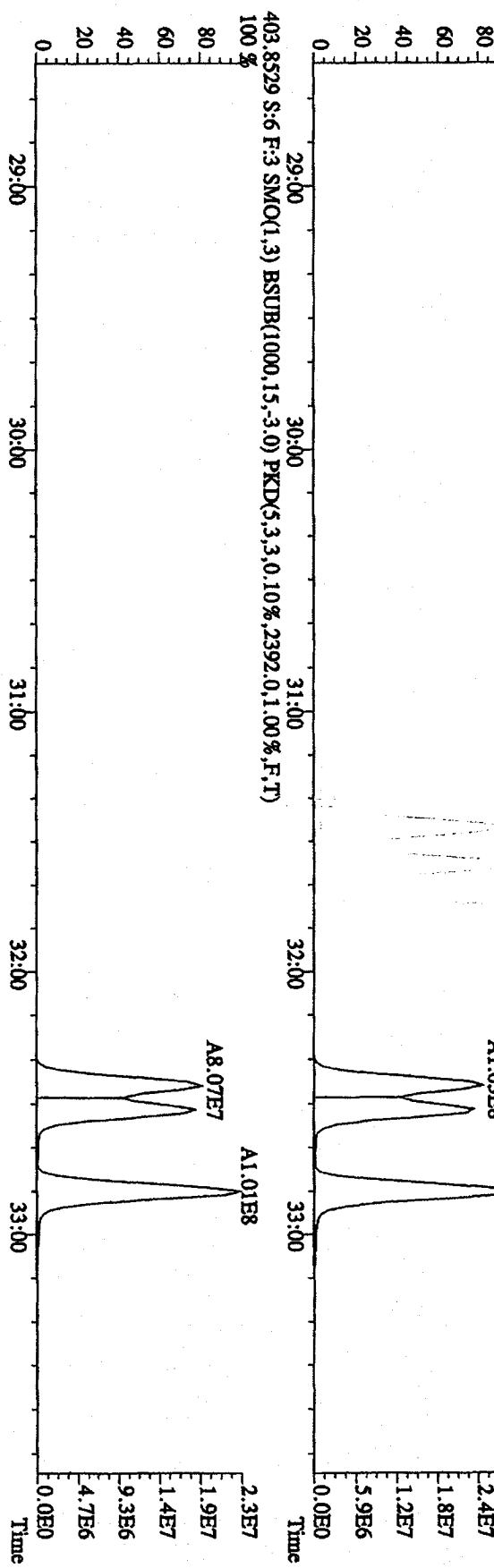
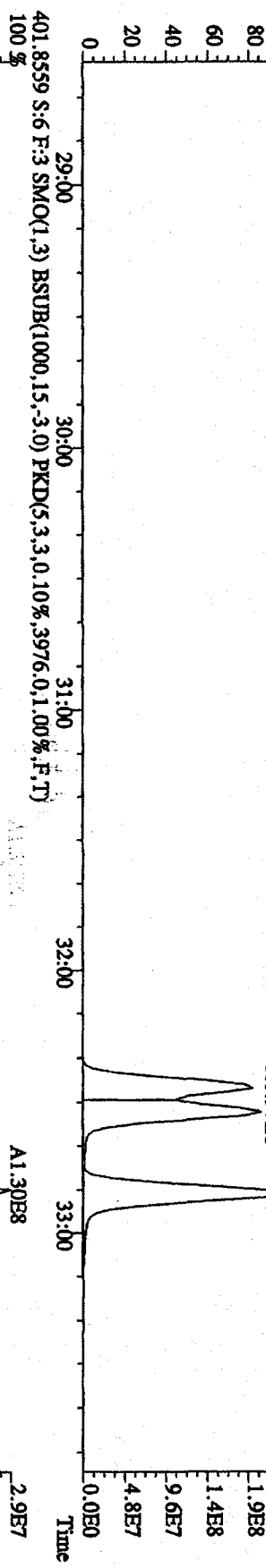
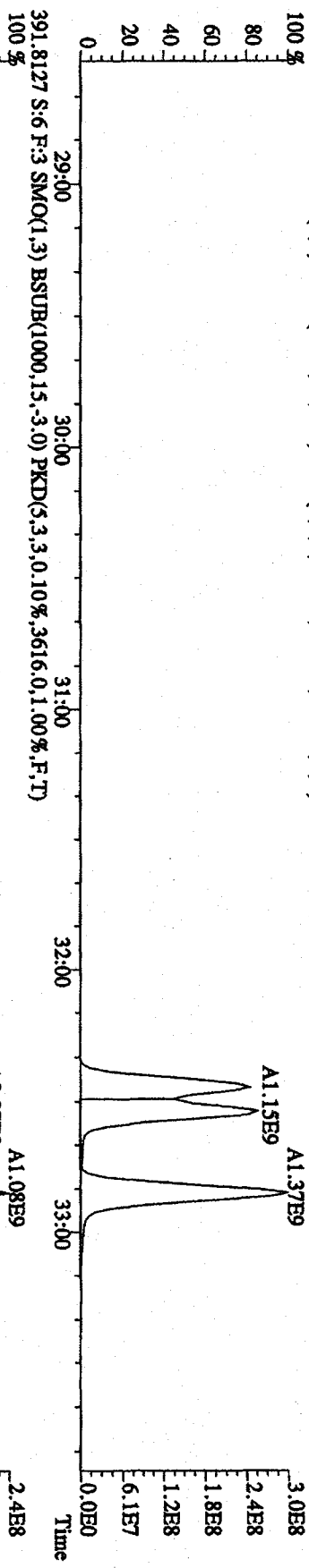
File:31DE9A1D5 #1-495 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1231F :CS-5 09DXN456 Exp:DI0XIN
 355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,11264,0.1,0.00%,F,T)



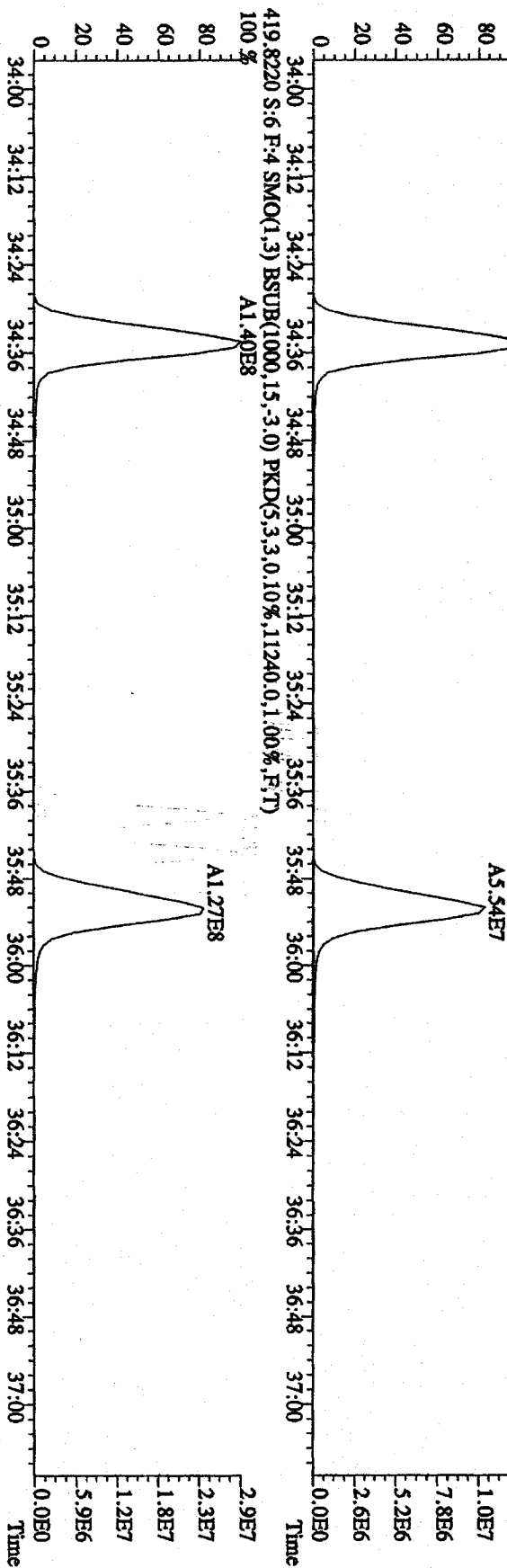
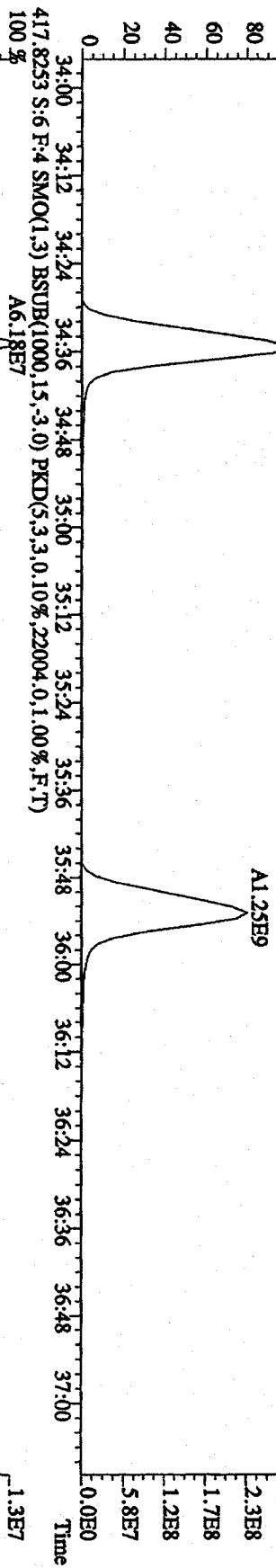
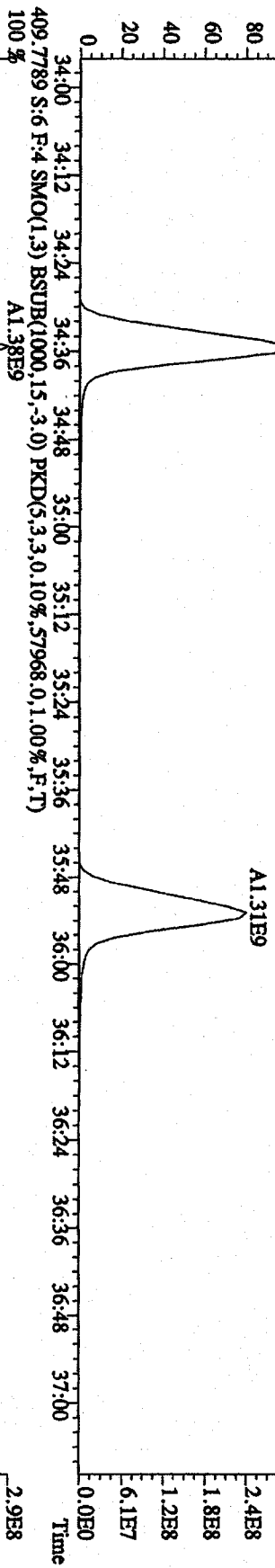
File:31DB09A1D5 #1-362 Acq: 1-1JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1231F :CS-5 09DXN456 Exp:DIOXIN
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11080,0,1,00%,F,T)



File:31DE09A1D5 #1-362 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SRR 70SE
 Sample#6 Text:ST1231F :CS-5 09DXN456 Exp.:DIOXIN
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3000,0,1,00%,F,T)



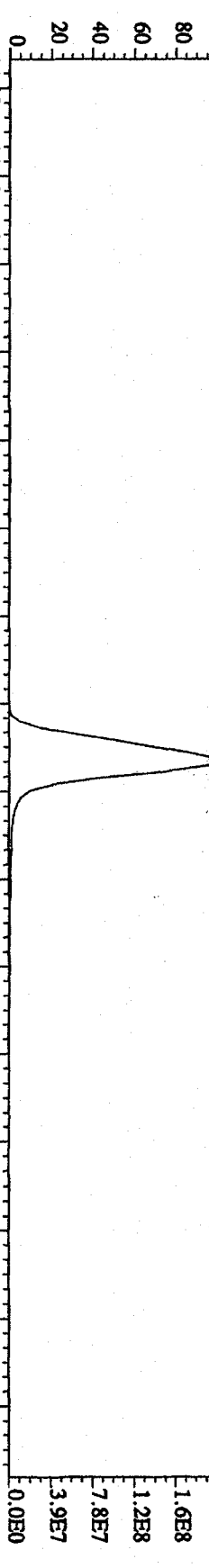
File:31DE09AID5 #1-228 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SHR 70SE
 Sample#6 Text:ST123IF :CS-5 09DXN456 Exp:DIOXIN
 407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,34380,0,1,00%,F,T)
 100%



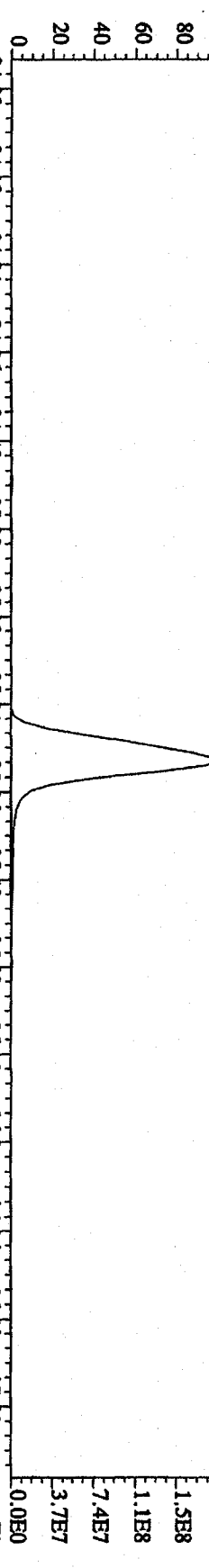
File:31IDE09A1D5 #1-228 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE

Sample#6 Text:ST1231F :CS-5 09DXK456 Exp.:DIOXIN

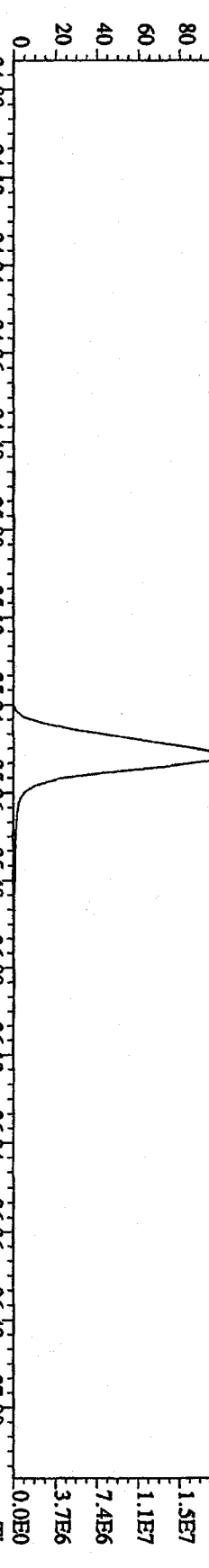
423.7766 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,38388.0,1.00%,F,T) A1.02E9



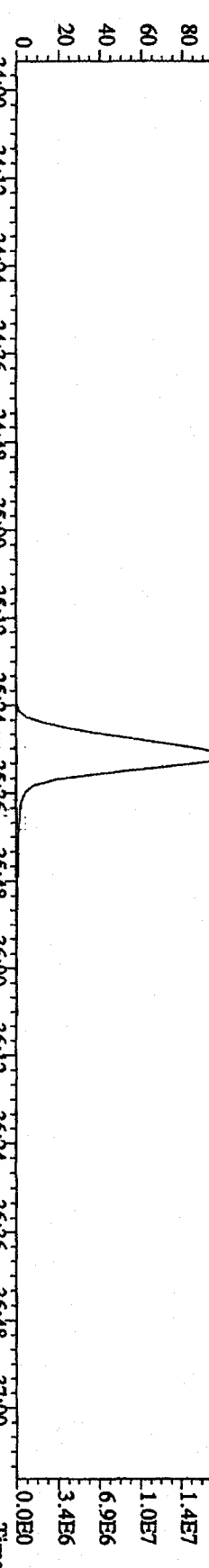
425.7737 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,34252.0,1.00%,F,T) A9.69E8



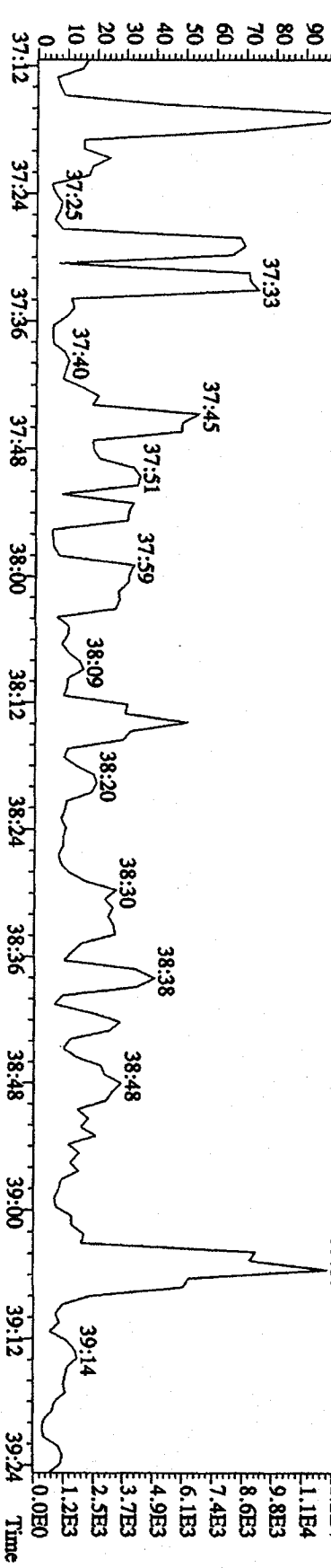
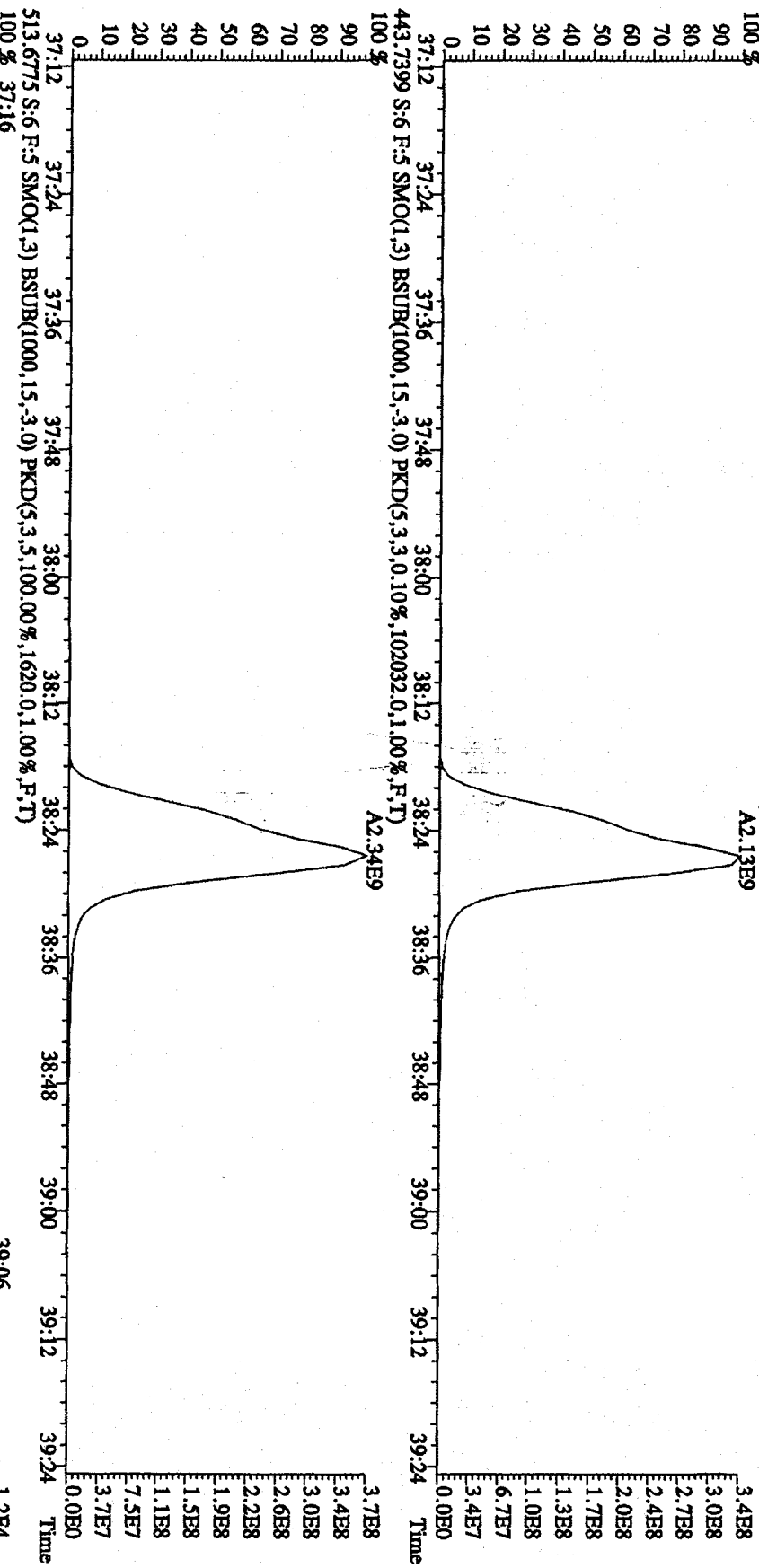
435.8169 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,10596.0,1.00%,F,T) A9.40E7



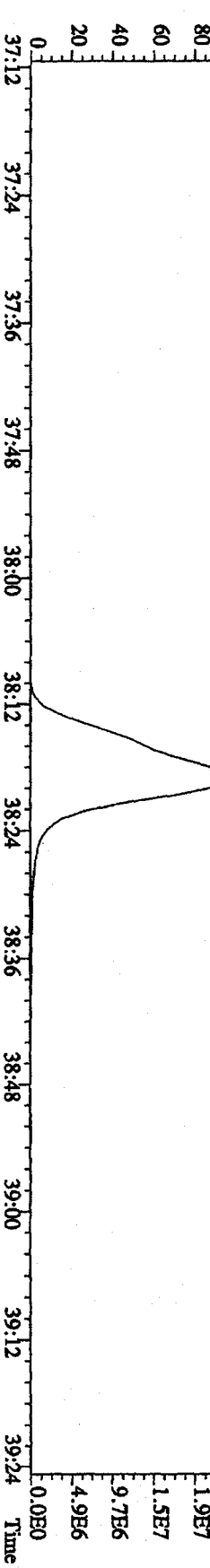
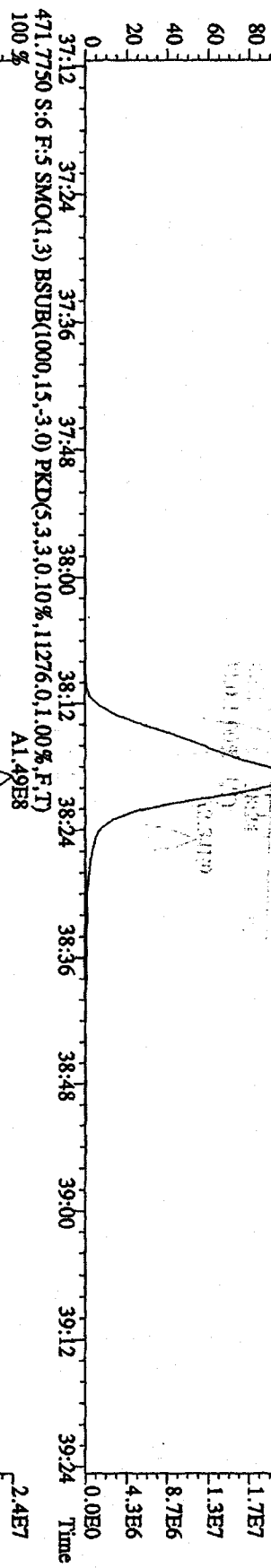
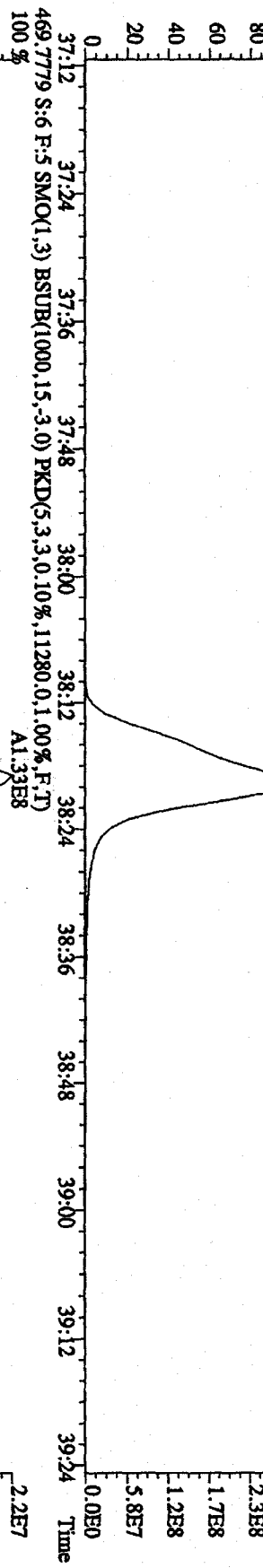
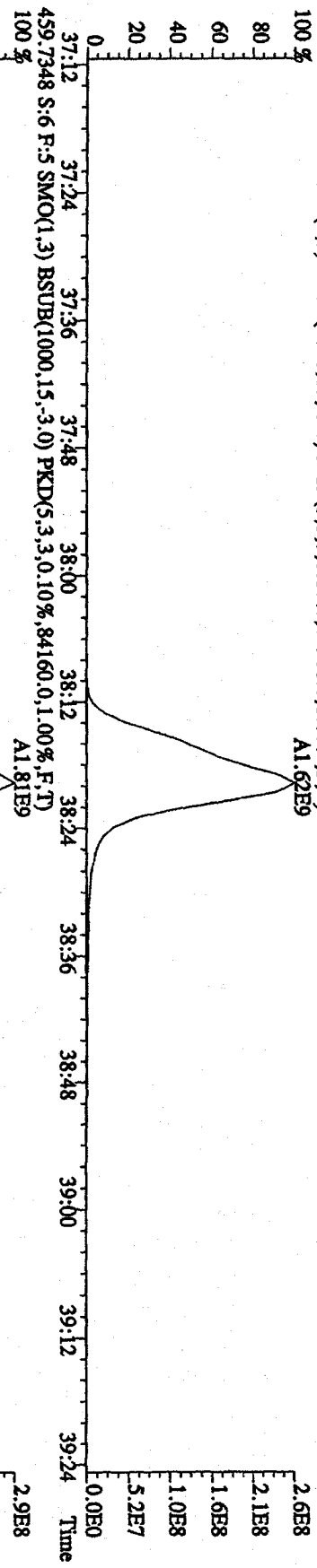
437.8140 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,9696.0,1.00%,F,T) A8.68E7



File:31DE09A1D5 #1-161 Acq: 1-IAN-2010 02:56:20 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST123IF :CS-5 09DXN456 Exp:DIOXIN
 441.7428 S:6 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,72084,0,1,00%,F,T)



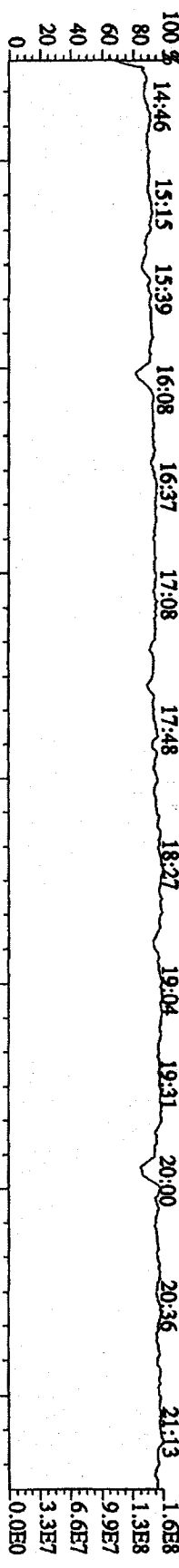
File:31DE09A1D5 #1-161 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1231F :CS-5 09DXN456 Exp:DIOXIN
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,67900,0,1,00%,F,T)
 100 % A1.62E9



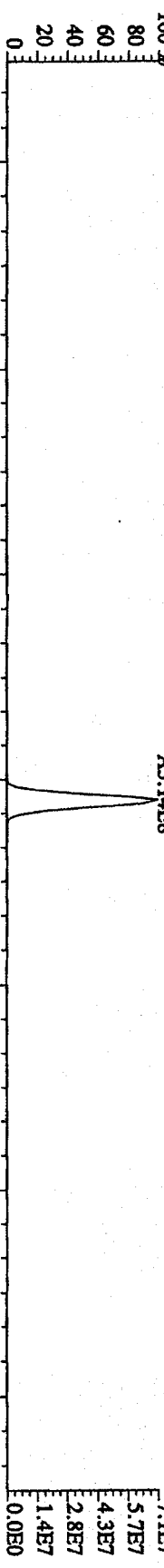
File:31DE09AID5 #1-411 Acq: 1-JAN-2010 02:56:20 GC EI + Voltage SIR 70SE

Sample#6 Text:ST1231F :CS-5 09DXN456 Exp:DIOXIN

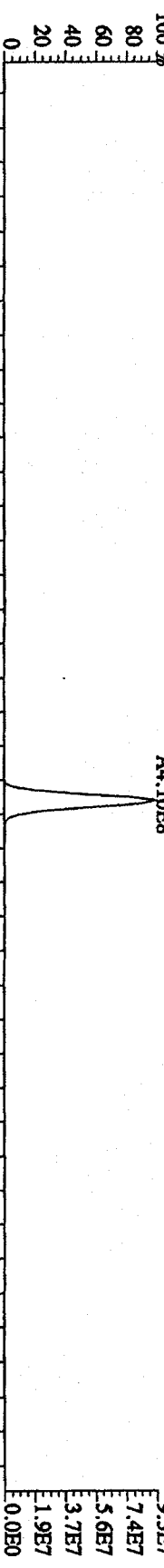
292.9825 S:6 SMO(1.3) PKD(5.3,5.100.00%,0.0,1.00%,F,T)



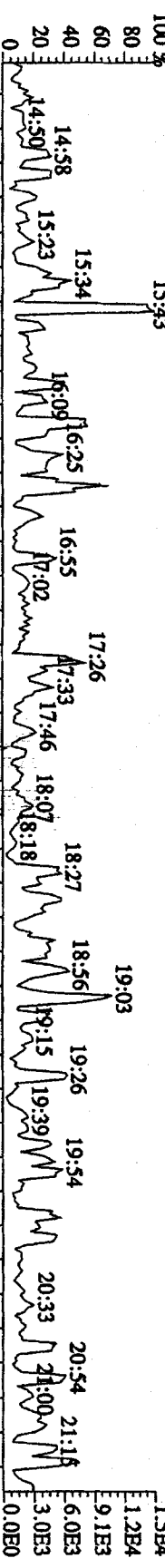
303.9016 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,9492.0,1.00%,F,T)



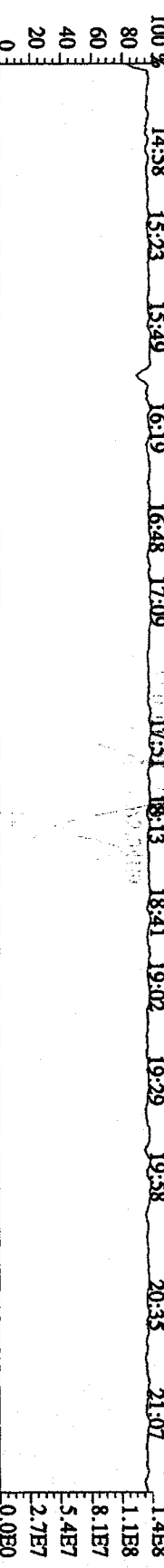
305.8987 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,9552.0,1.00%,F,T)



375.8364 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.100.00%,2384.0,1.00%,F,T)



330.9792 S:6 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)

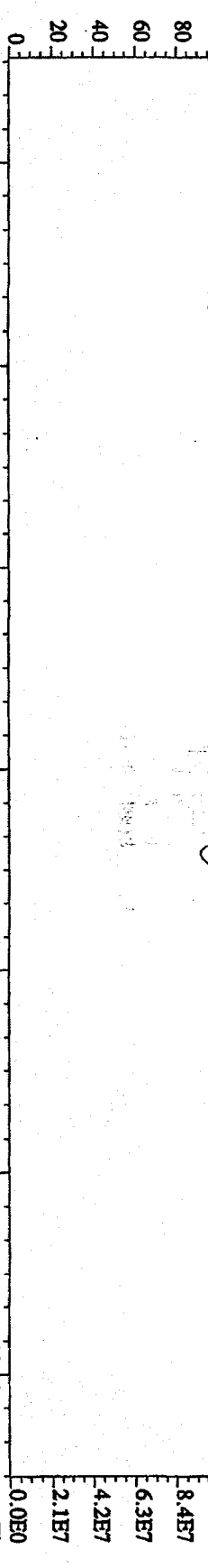


File:31DE09A1D5 #1-495 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE

Sample#6 Text:ST1231F :CS-5 09DXN456 Exp:DIOXIN

342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

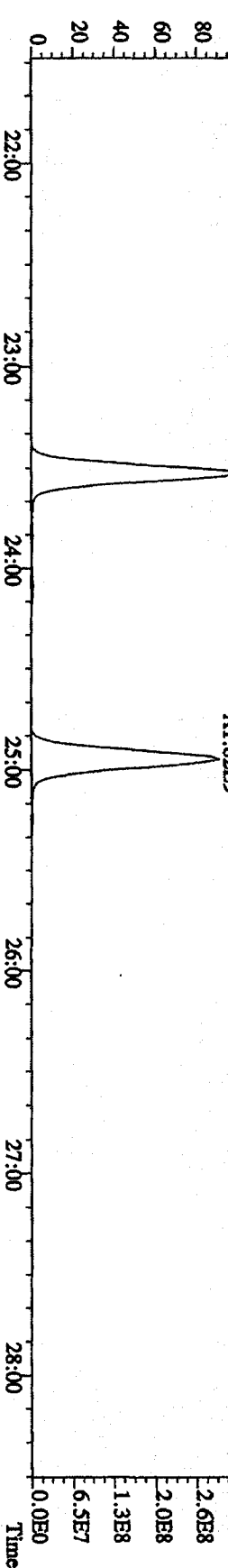
100 % 21:55 22:29 23:01 23:33 23:56 24:29 24:54 25:17 25:46 26:13 26:46 27:13 27:36 28:18



339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,21616,0.1,00%,F,T)

A1.91E9

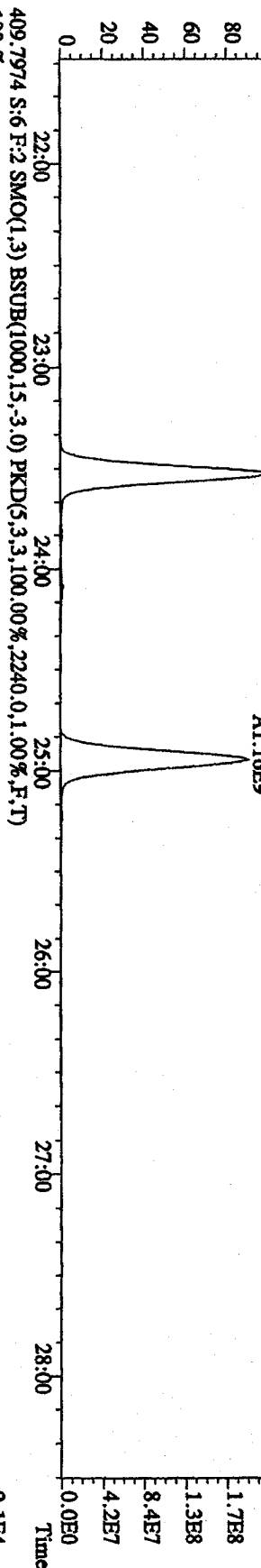
A1.82E9



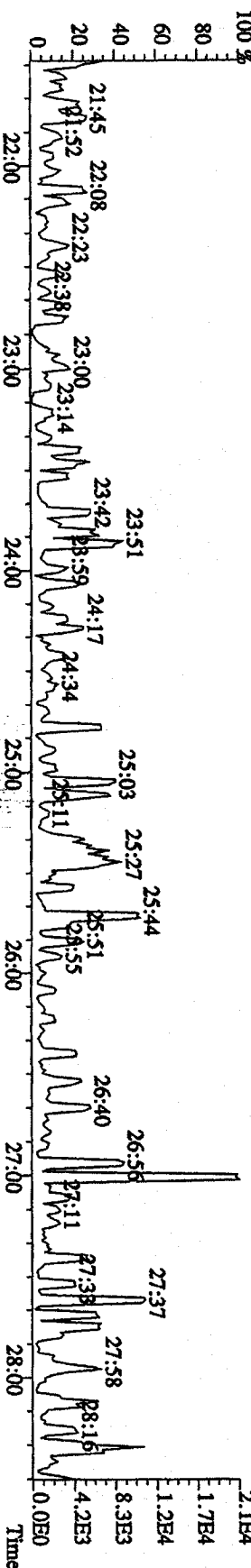
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,11104,0.1,00%,F,T)

A1.22E9

A1.16E9



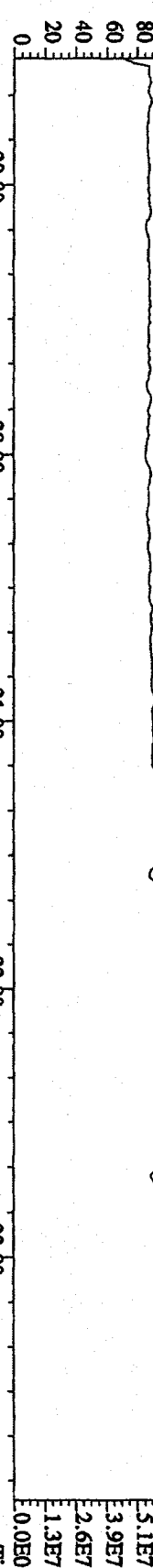
409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2240,0.1,00%,F,T)



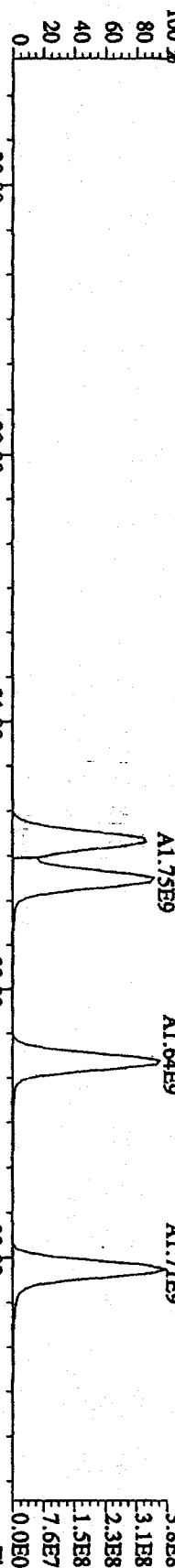
File: 31DIE09A1D5 #1-362 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE

Sample#6 Text: ST1231F : CS-5 09DXN456 Exp: DIOXIN

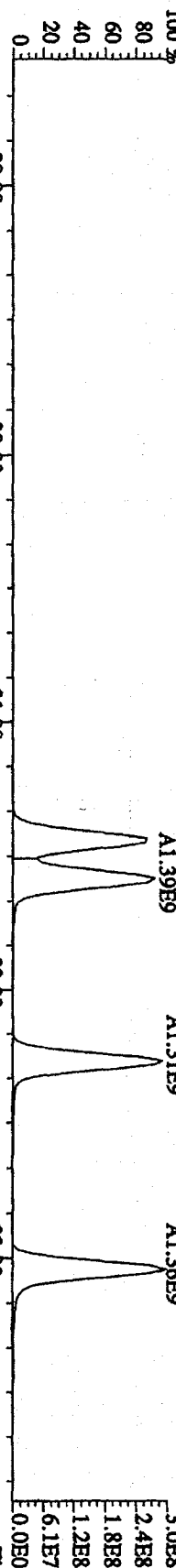
392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



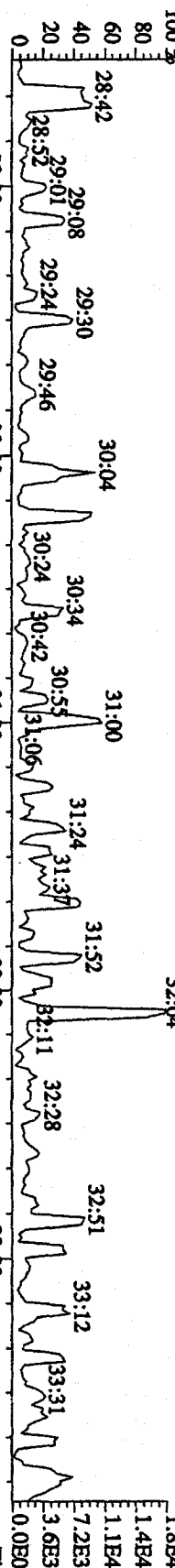
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11080,0,1.00%,F,T)



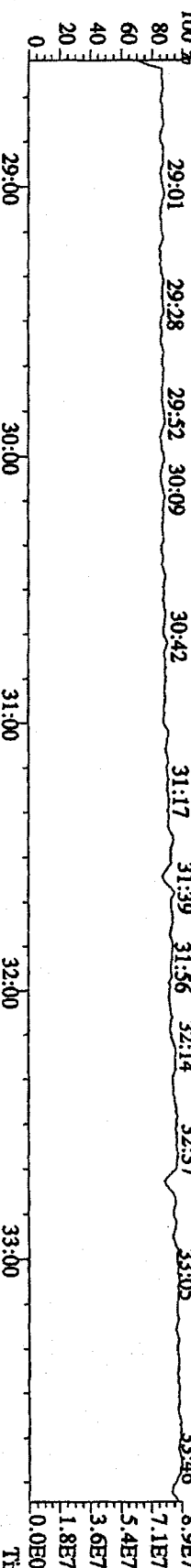
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6268,0,1.00%,F,T)



445.7555 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1868,0,1.00%,F,T)



380.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

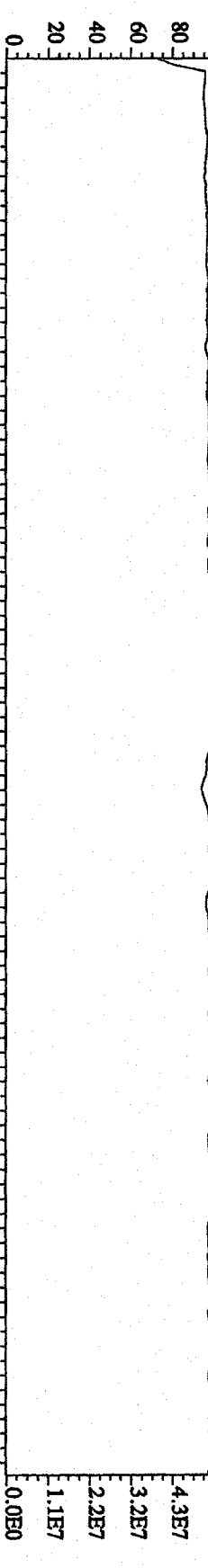


File:31DE09A1D5 #1-228 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE

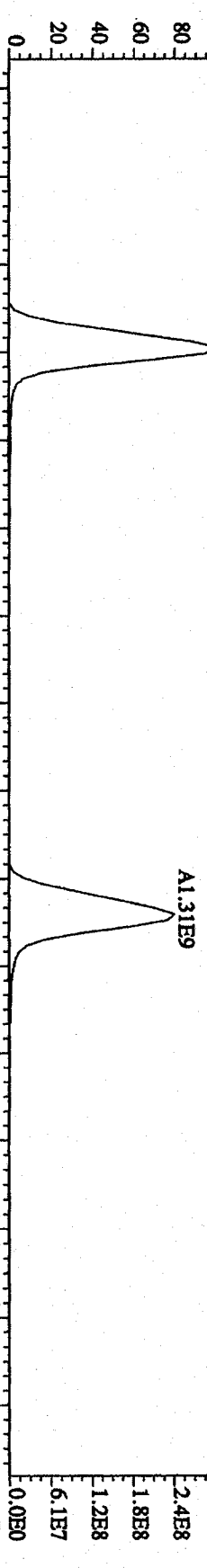
Sample#6 Text:ST1231F :CS-5 09DXN456 Exp:DIOXIN

430.9728 S:6 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

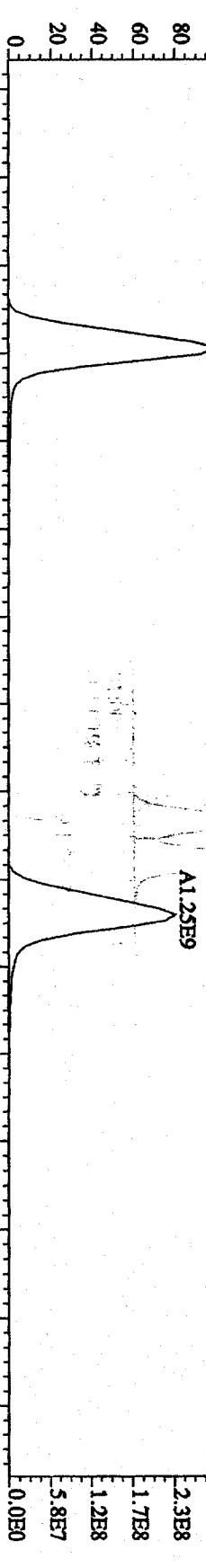
100% 34:07 34:26 34:47 35:07 35:17



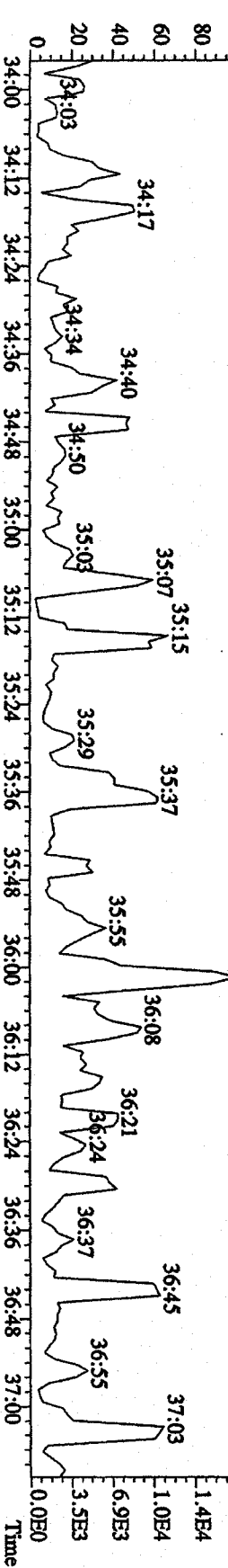
407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,34380,0,1.00%,F,T)



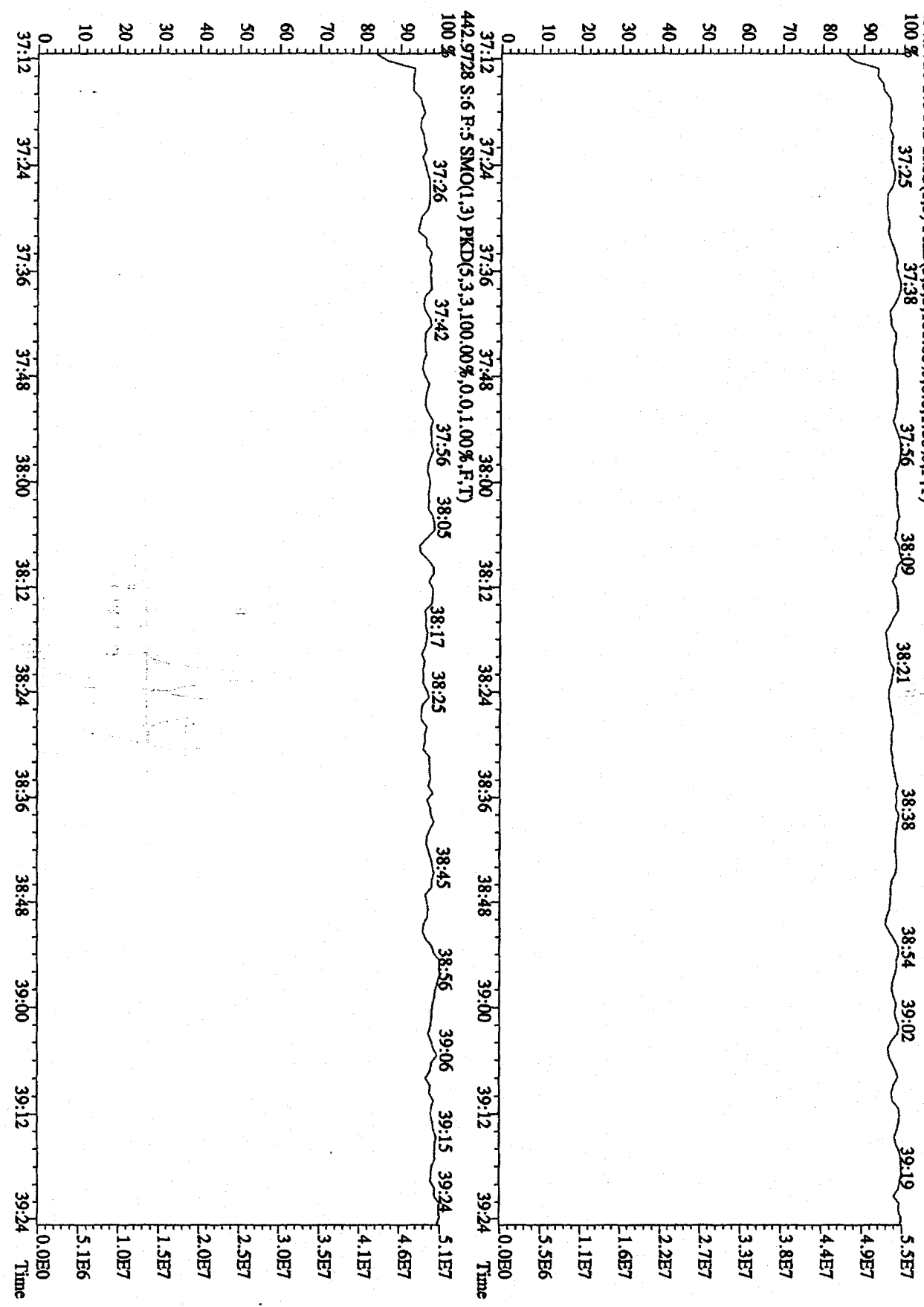
409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,57968,0,1.00%,F,T)



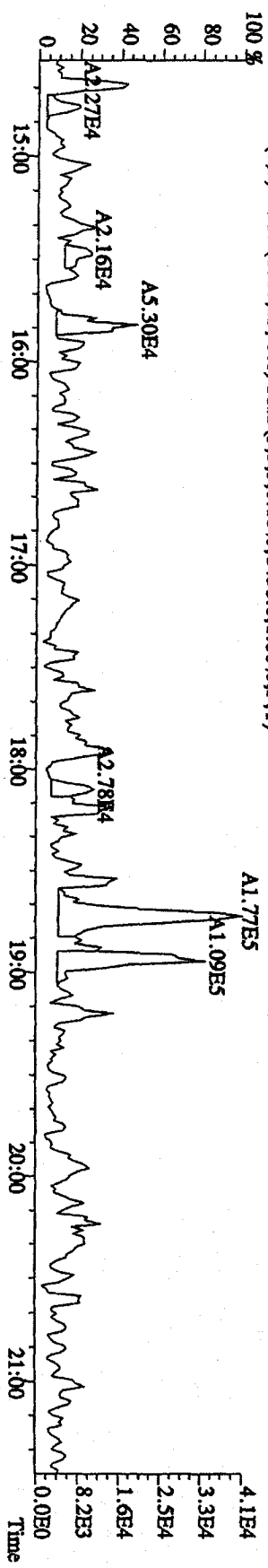
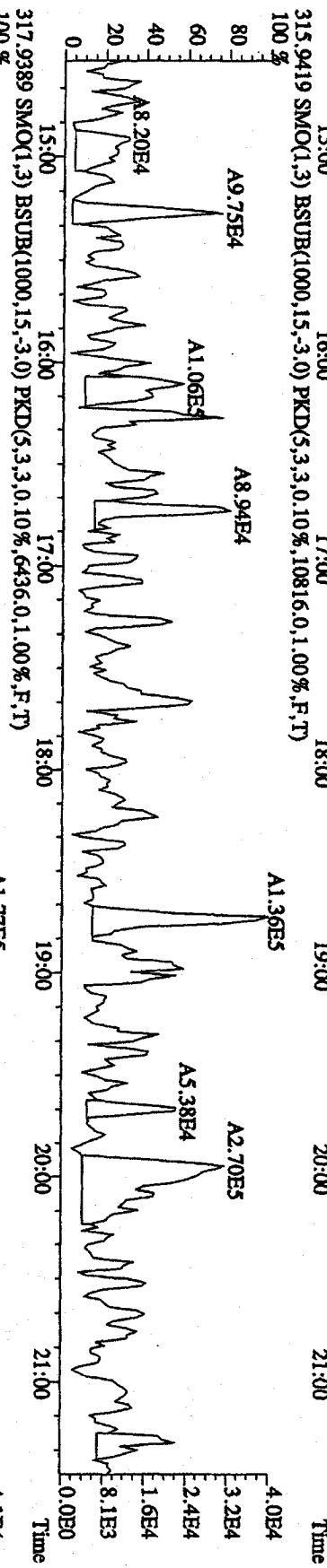
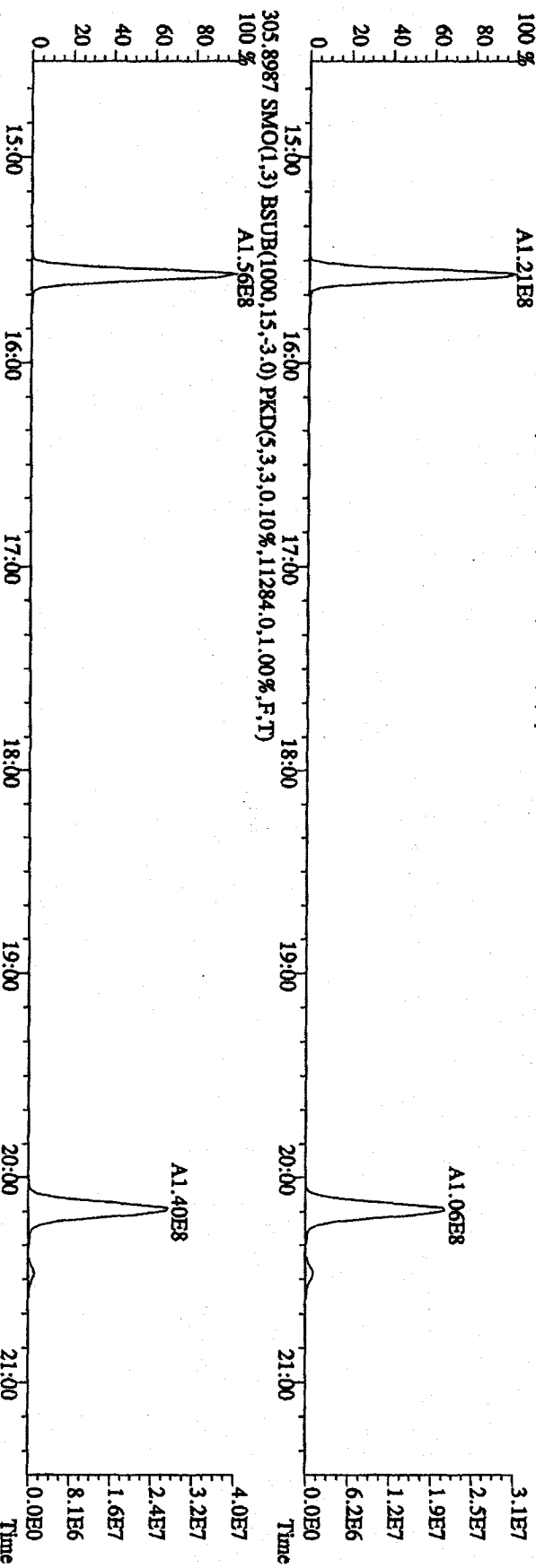
479.7165 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2668,0,1.00%,F,T)



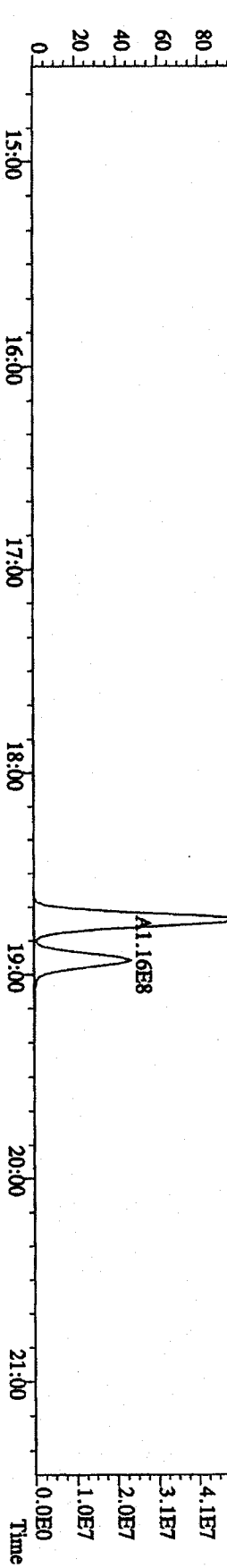
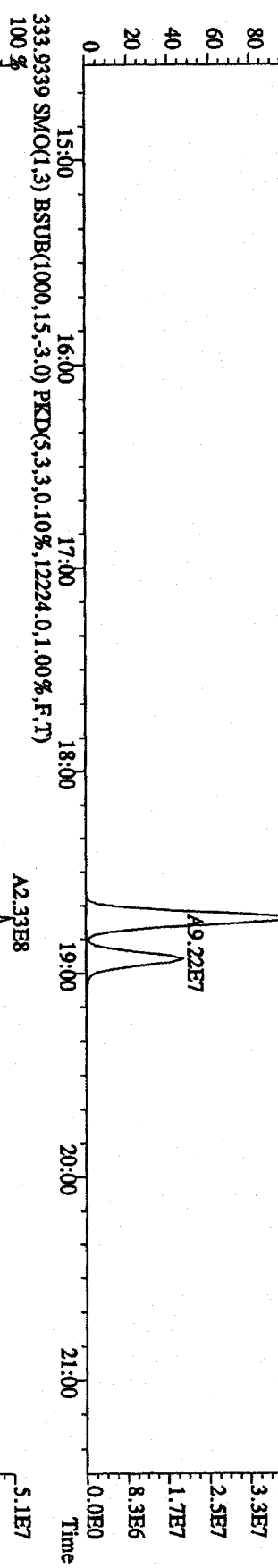
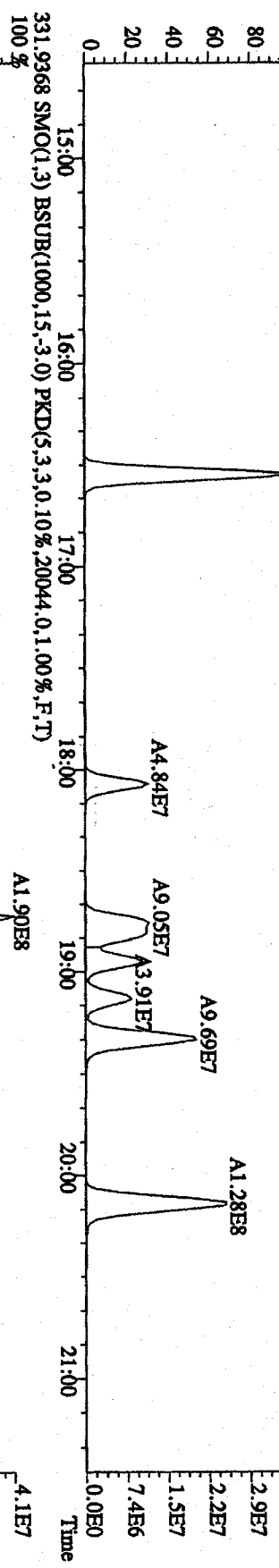
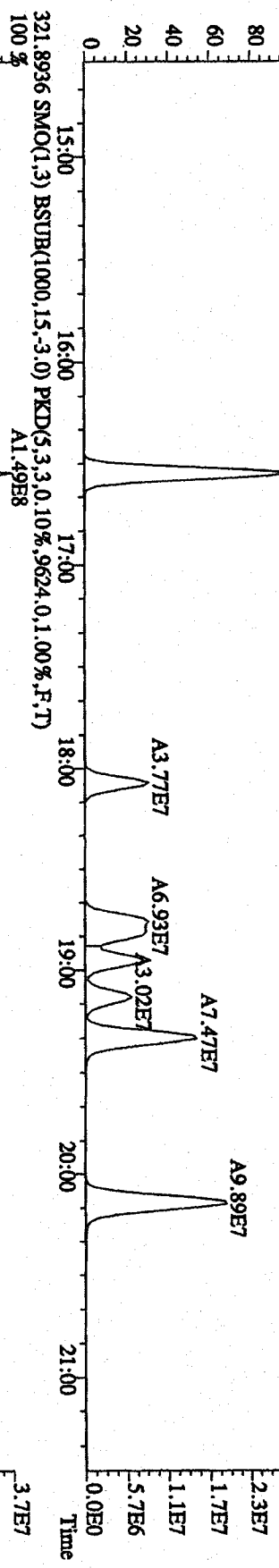
File: 31DE09A1D5 #1-161 Acq: 1-JAN-2010 02:56:20 GC EI+ Voltage SIR 70SE
 Sample#6 Text: ST1231F :CS:5 09DXN456 Exp: DIOXIN
 454.9728 S:6 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)
 100%



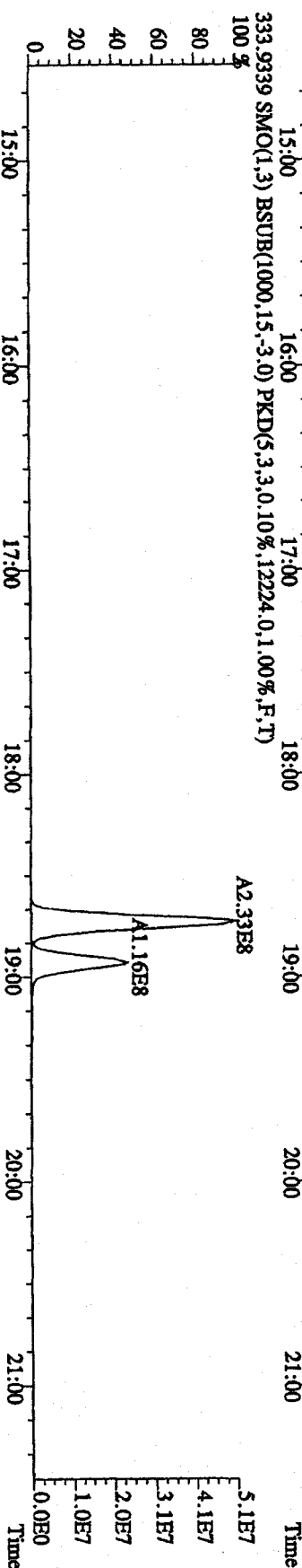
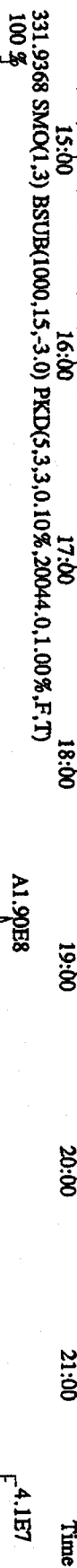
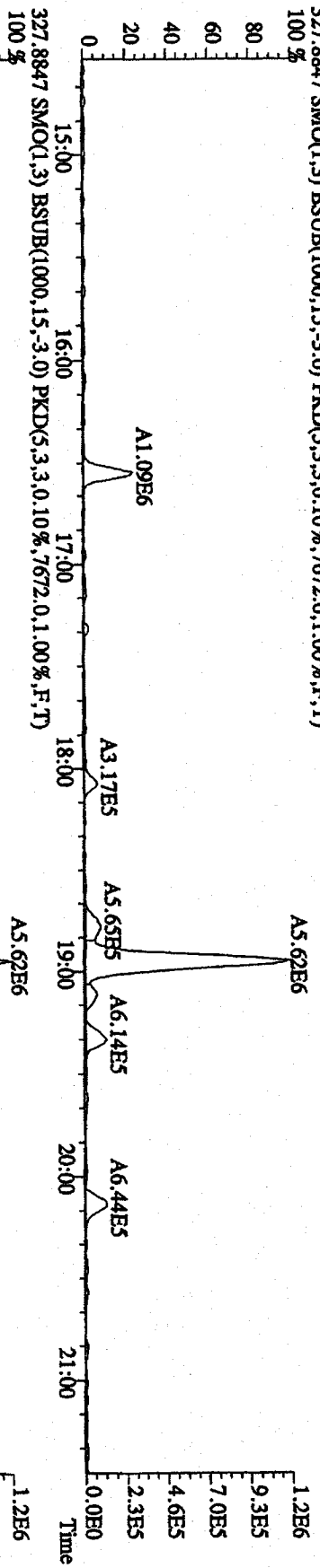
File:31DE09AID5 #1-410 Acq:31-DEC-2009 23:25:43 GC EI + Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPM 3732-04 Exp:DIOXIN
 305.8987 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7492,0.1,0.00%,F,T)
 100 % A1.21E8



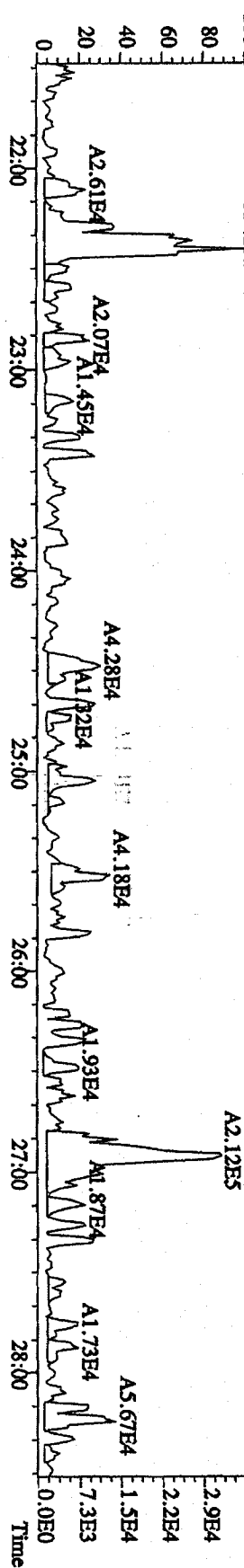
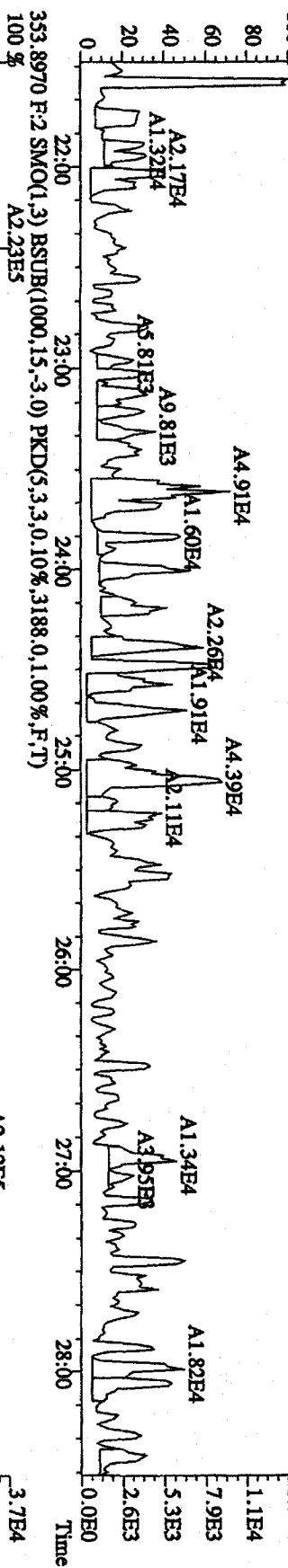
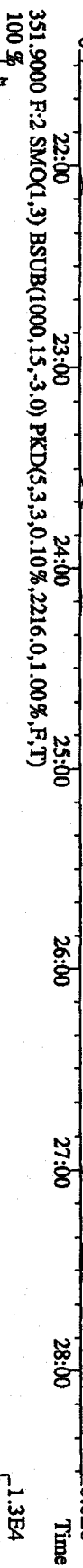
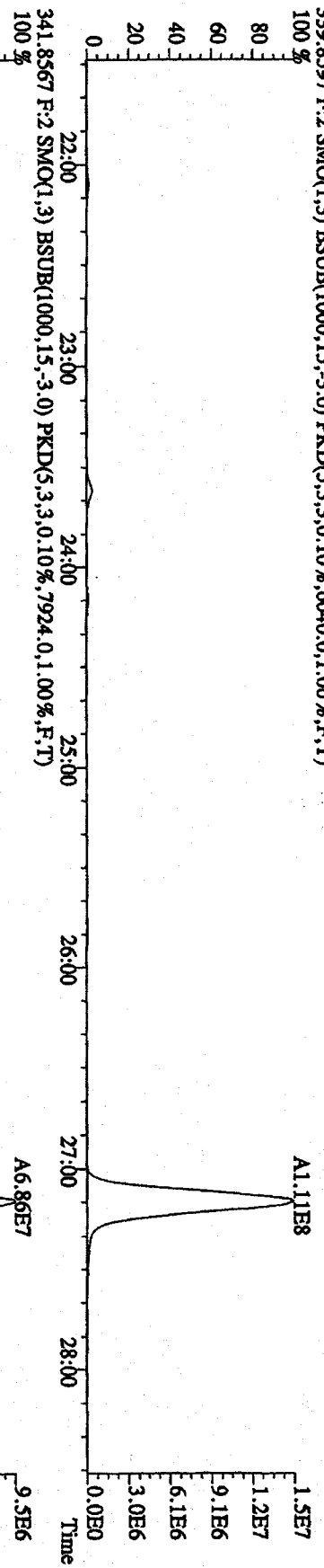
File:31DE09A1D5 #1-410 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPSM 3732-04 Exp:DI0XIN
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.9624,0.1,0.00%,F,T)
 A1.15E8



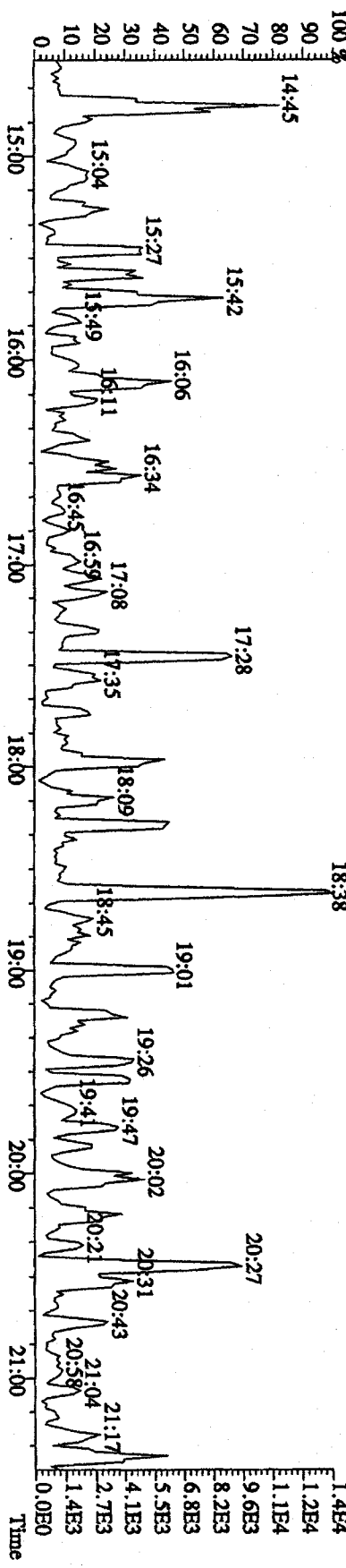
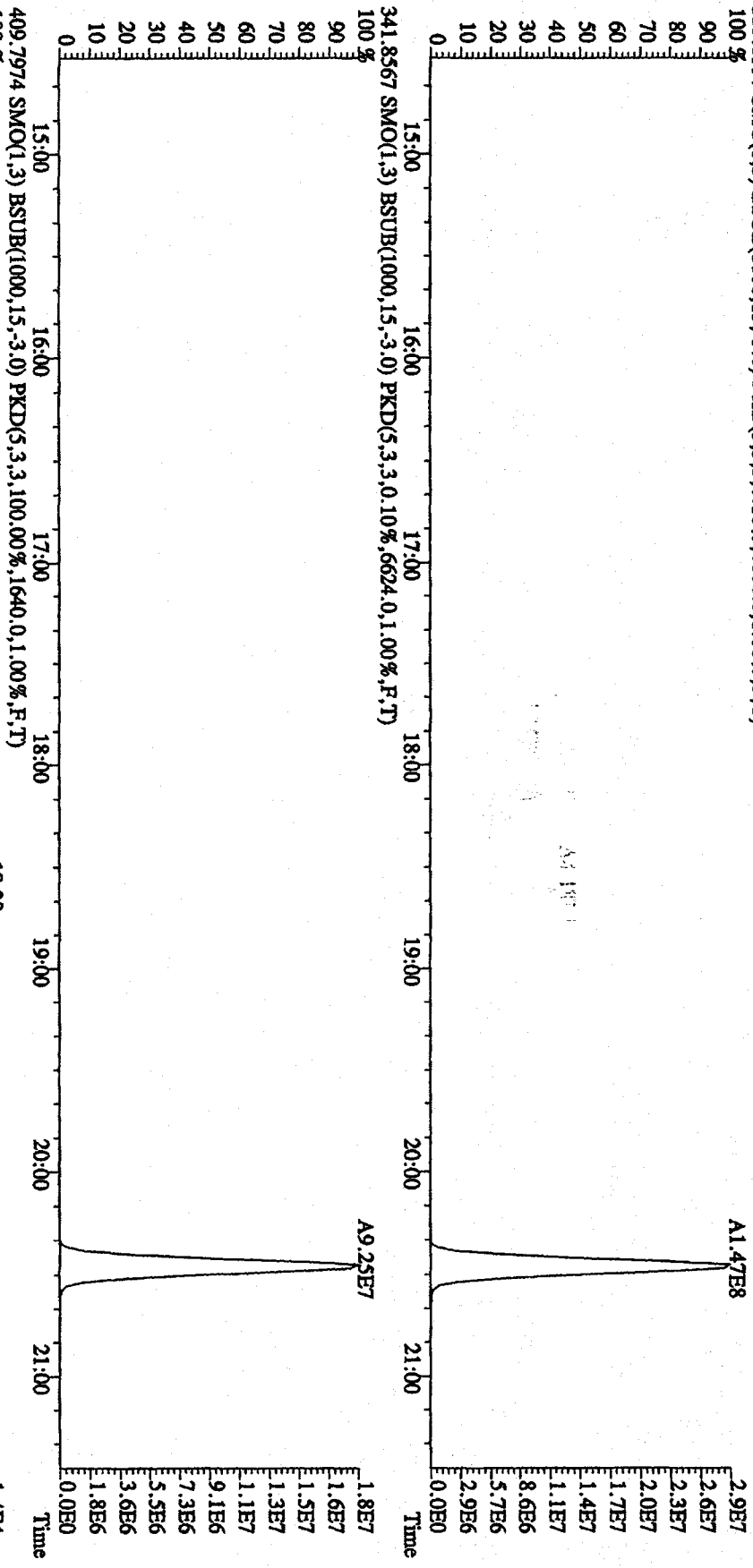
File:31DE09A1D5 #1-410 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPSM 3732-04 Exp:DIOXIN
 327.8847 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7672,0,1,00%,F,T)
 100 %



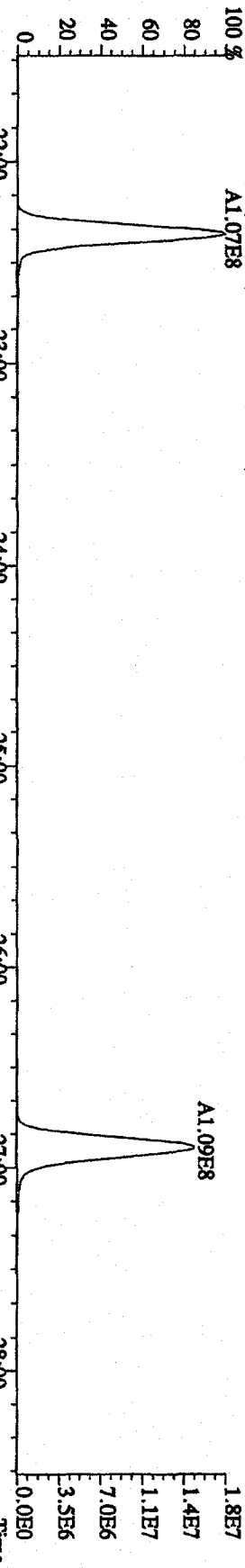
File:31DE09A1D5 #1-496 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPSM 3732-04 Exp:DIOXIN
 339.8597 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6040,0,1,00%,F,T)



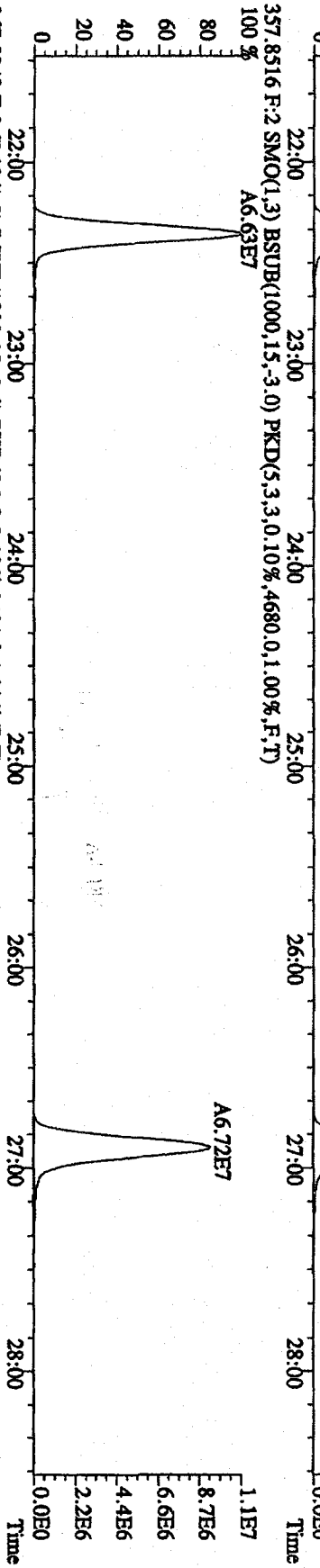
File:31DE09A1D5 #1-410 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPM 3732-04 Exp:DIOXIN
 339.8597 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,4608,0,1,00%,F,T)



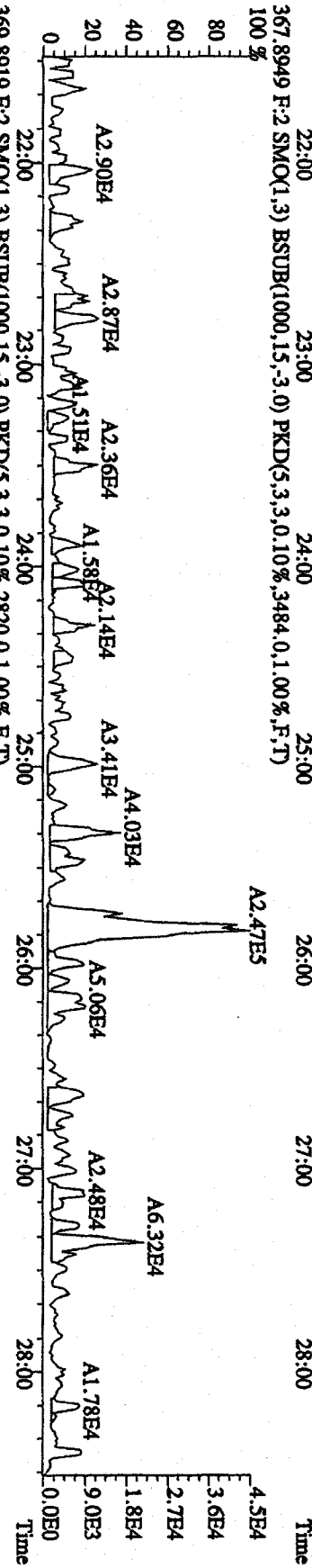
File:31DE09A1D5 #1-496 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CP5M 3732-04 Exp:DIOXIN
 355.8546 F:2.SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.9928,0.1,00%,F,T)
 100 % A1.07E8



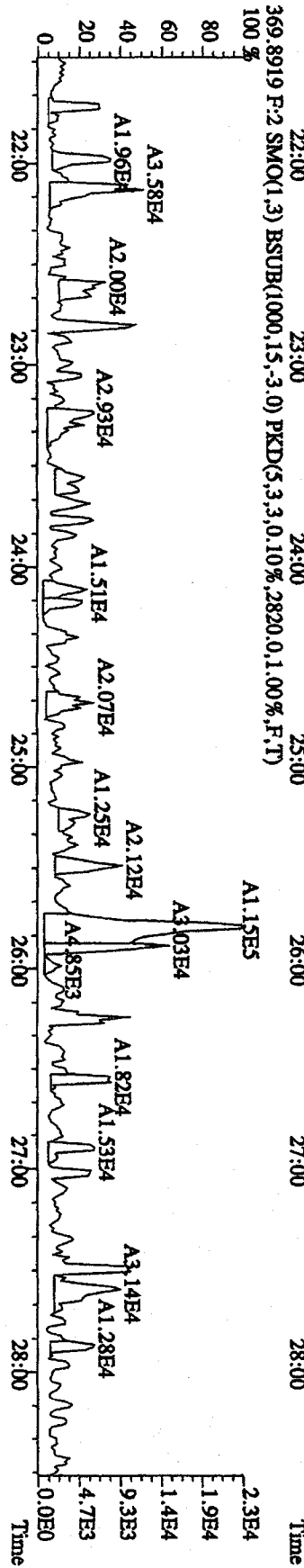
357.8516 F:2.SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.4680,0.1,00%,F,T)
 100 % A6.63E7



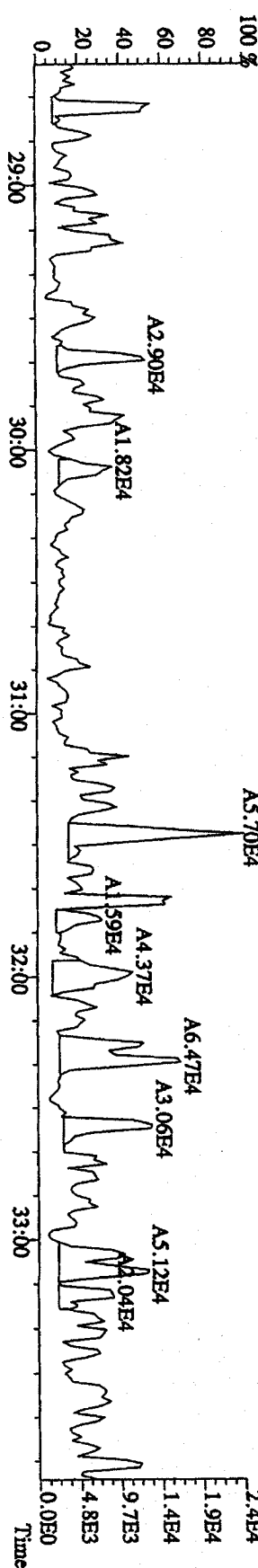
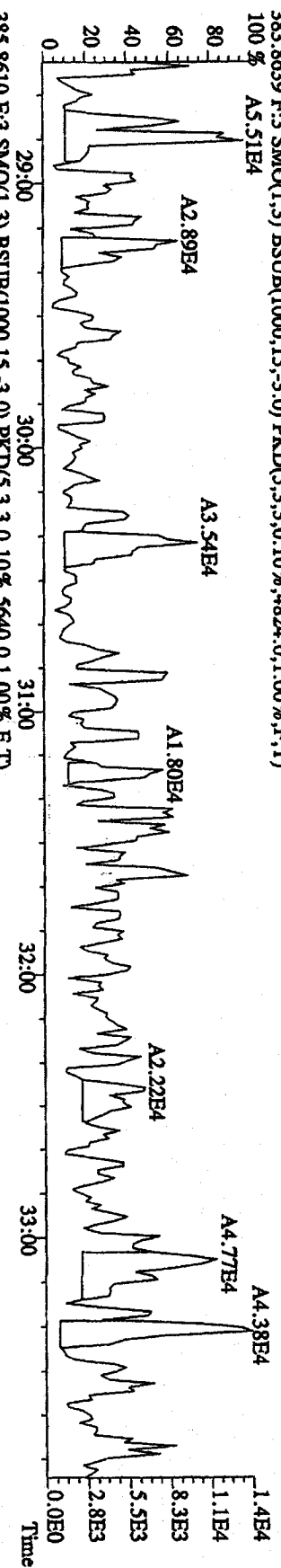
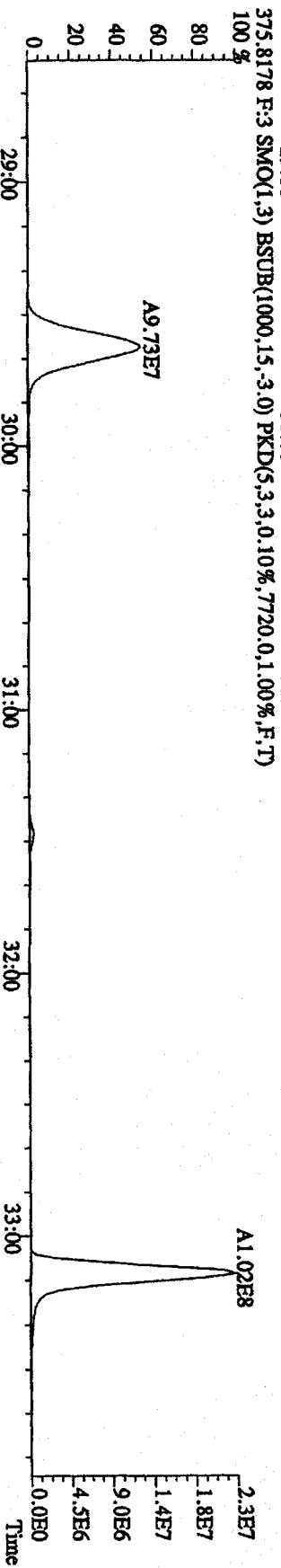
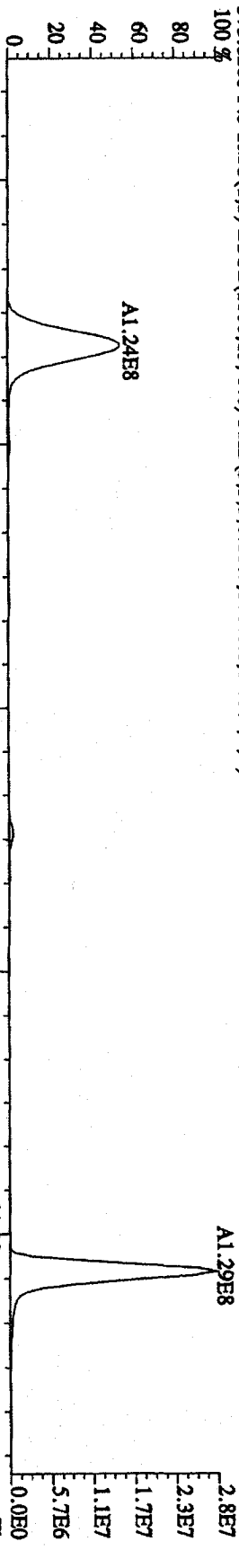
367.8949 F:2.SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.3484,0.1,00%,F,T)
 100 %



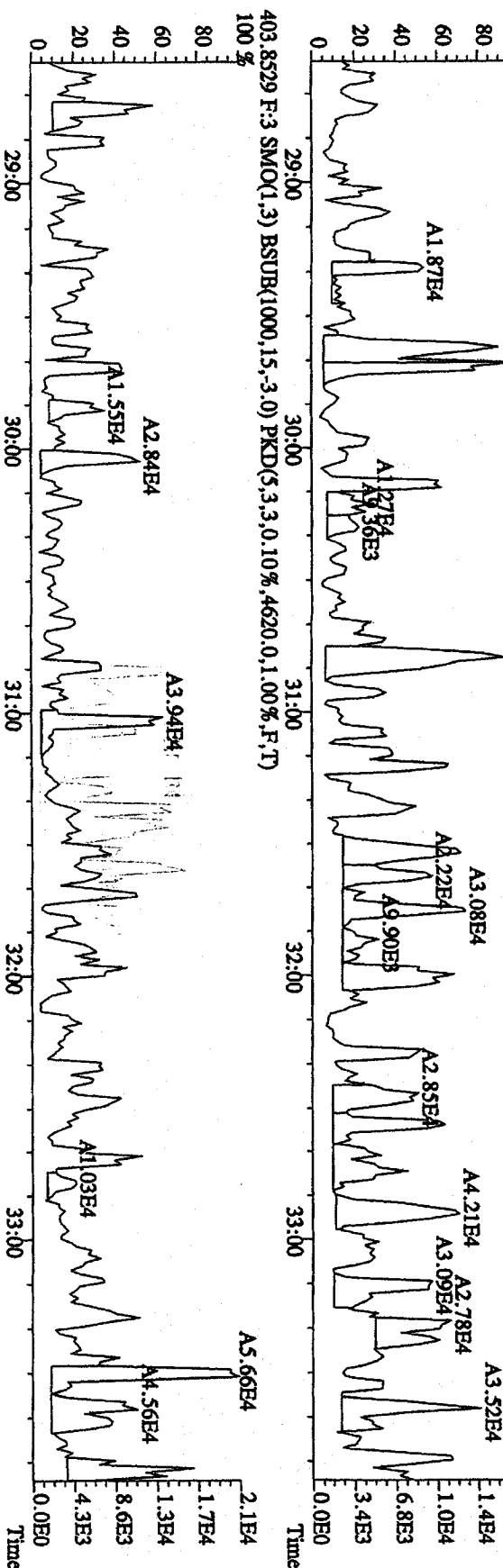
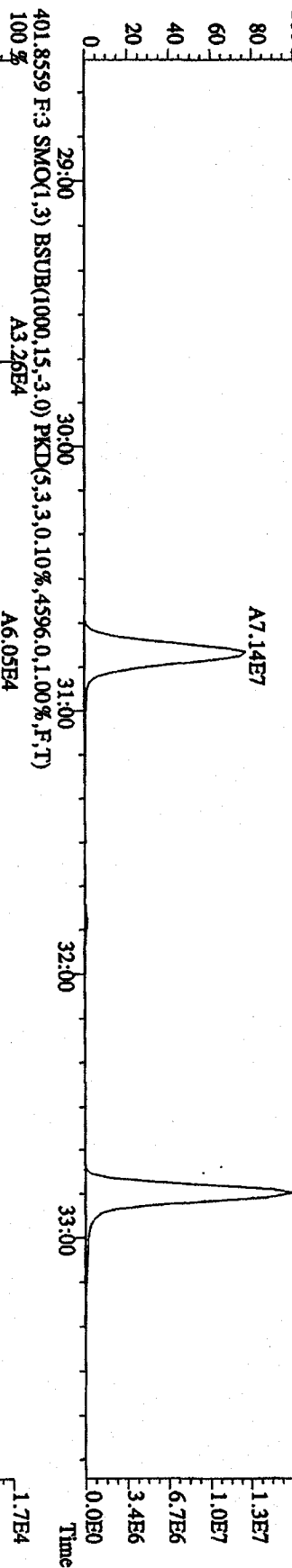
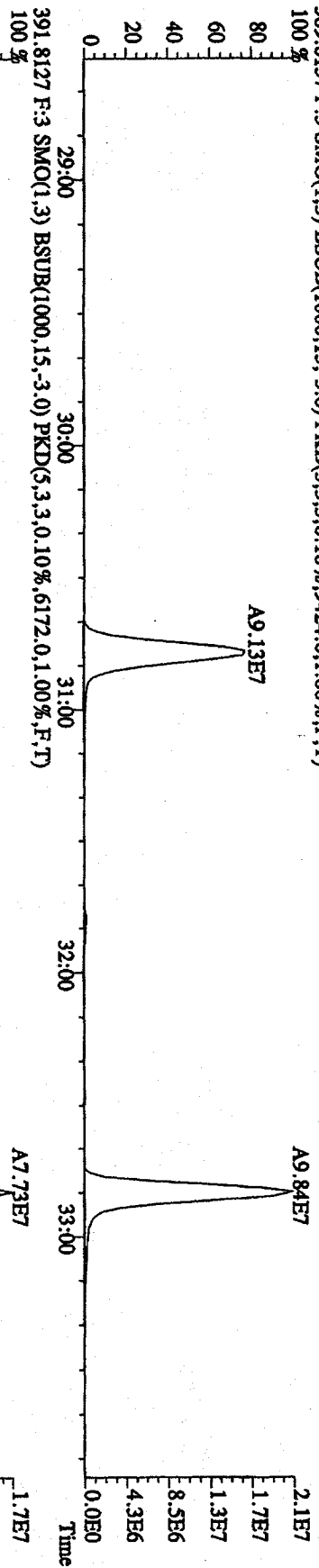
369.8919 F:2.SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.2820,0.1,00%,F,T)
 100 %



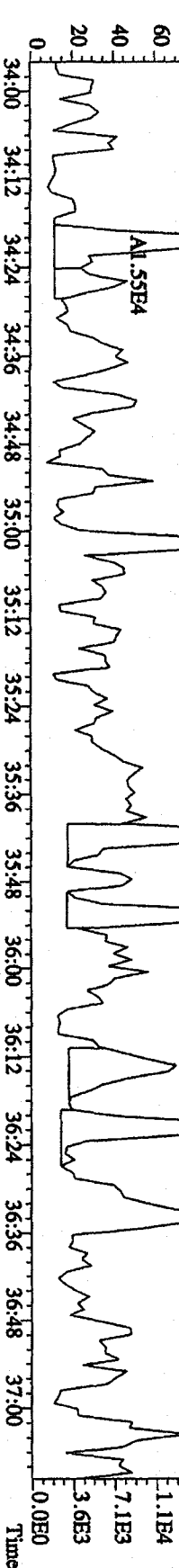
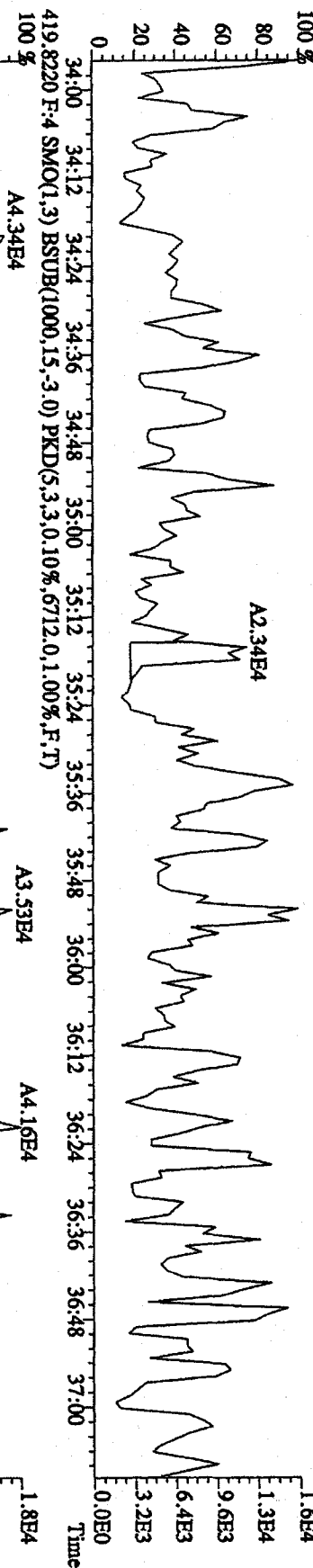
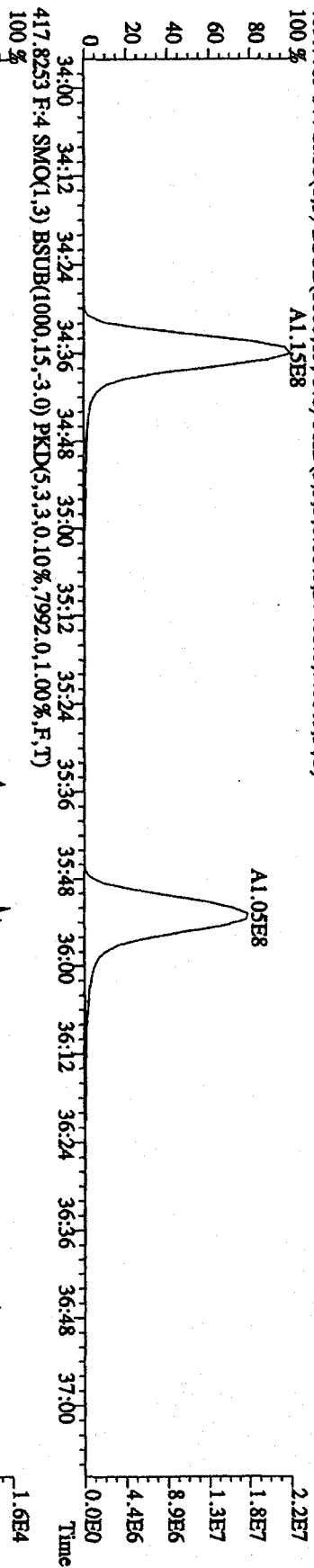
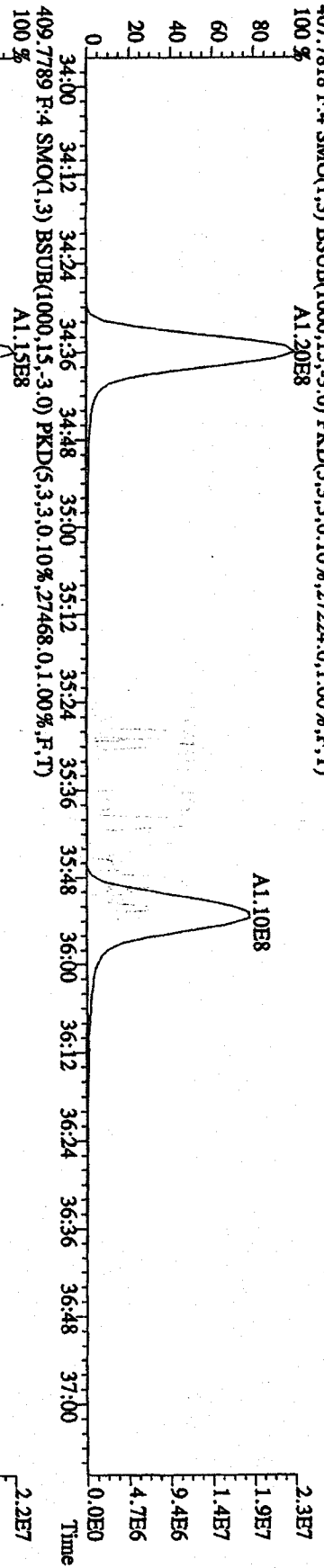
File:31DE09A1D5 #1-361 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPM 3732-04 Exp:DIOXIN
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,16148,0,1,00%,F,T)



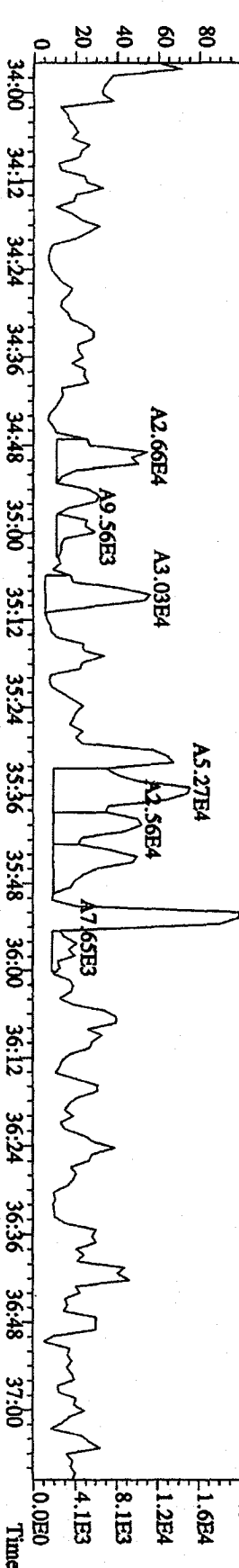
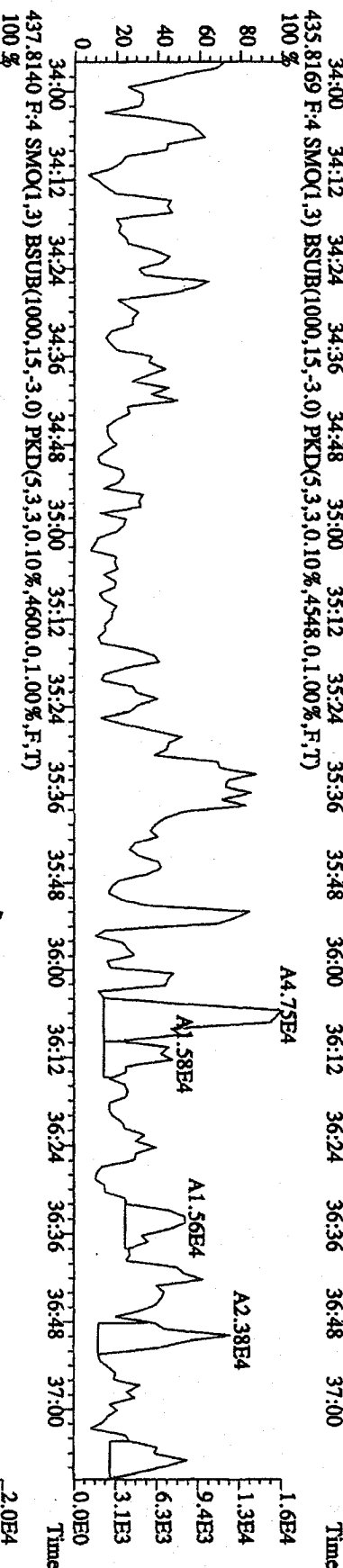
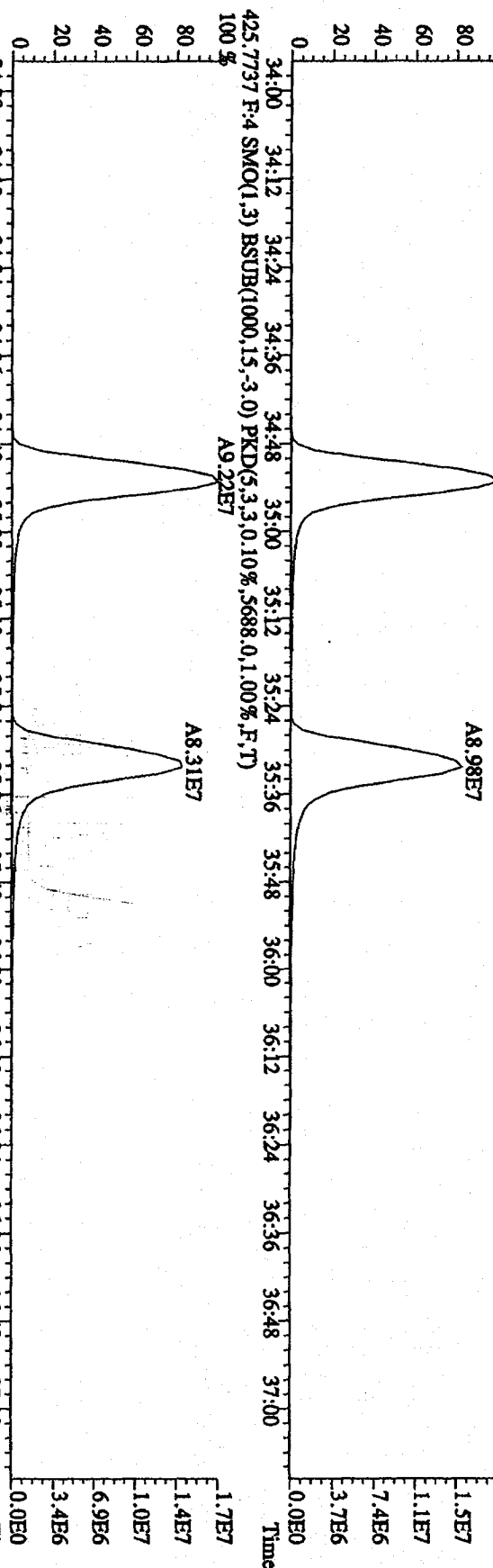
File:31DE09A1D5 #1-361 Acq:31-DEC-2009 23:25:43 GC EI + Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPSM 3732-04 Exp:DIOXIN
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9424.0,1.00%,F,T)



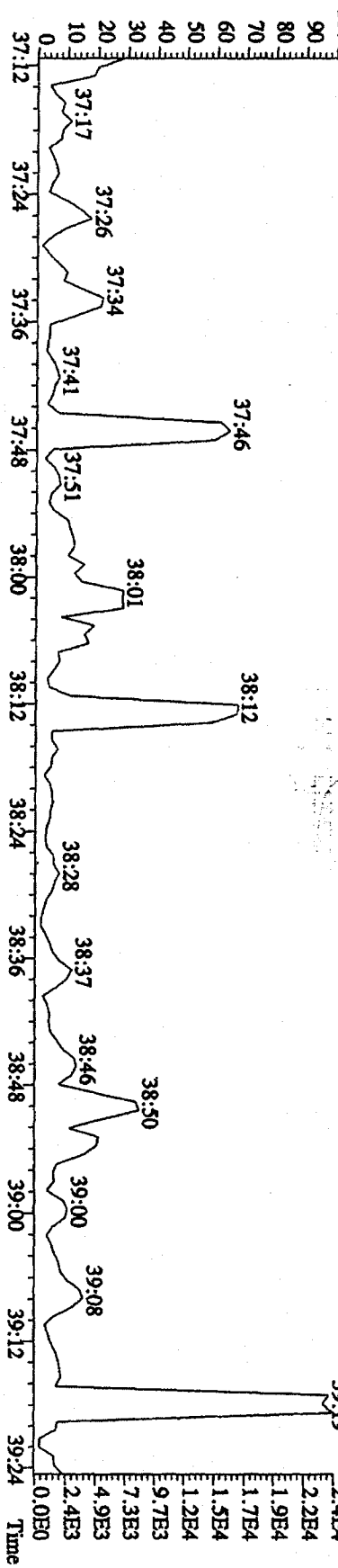
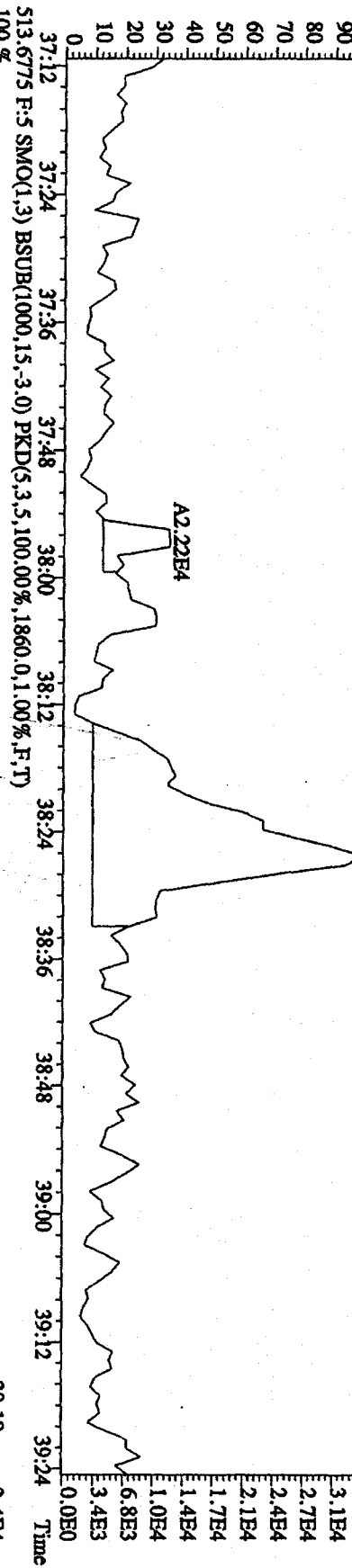
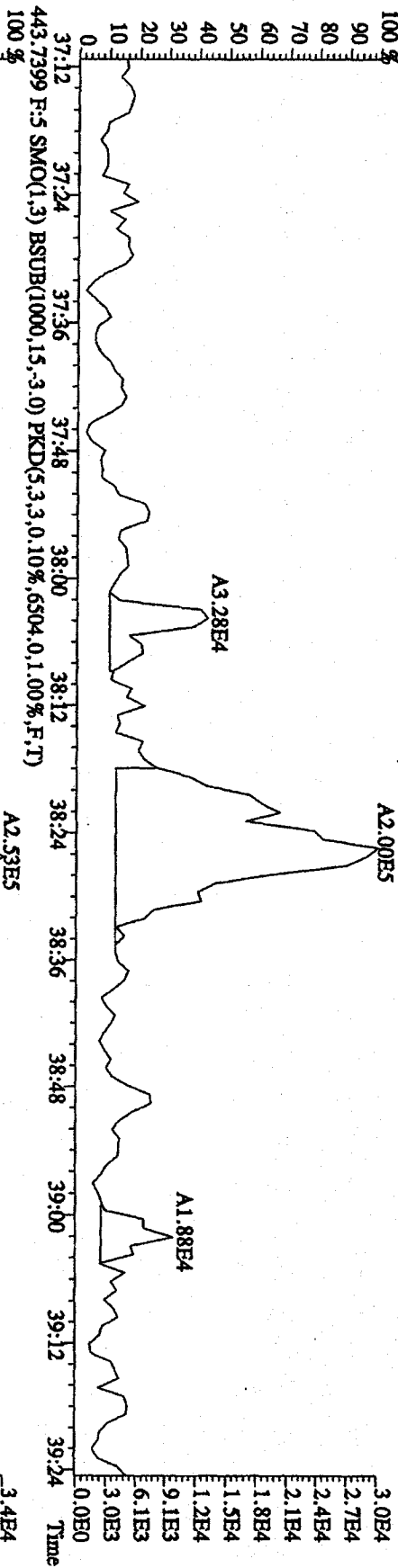
File:31DE09A1D5 #1-228 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPSM 3732-04 Exp:DIOXIN
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,27224,0,1,00%,F,T)
 100 %



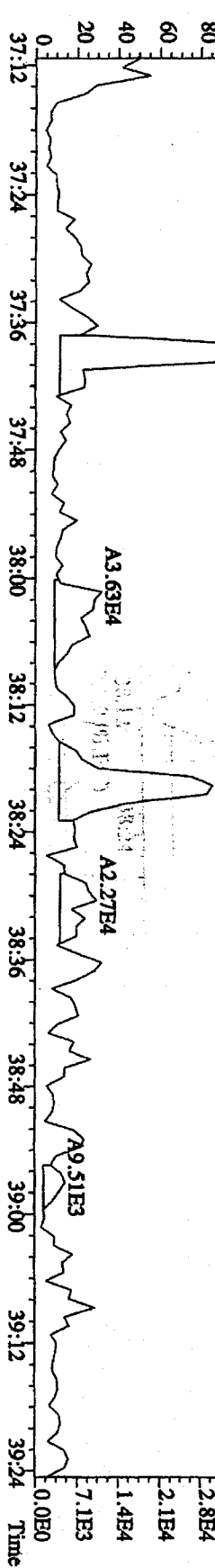
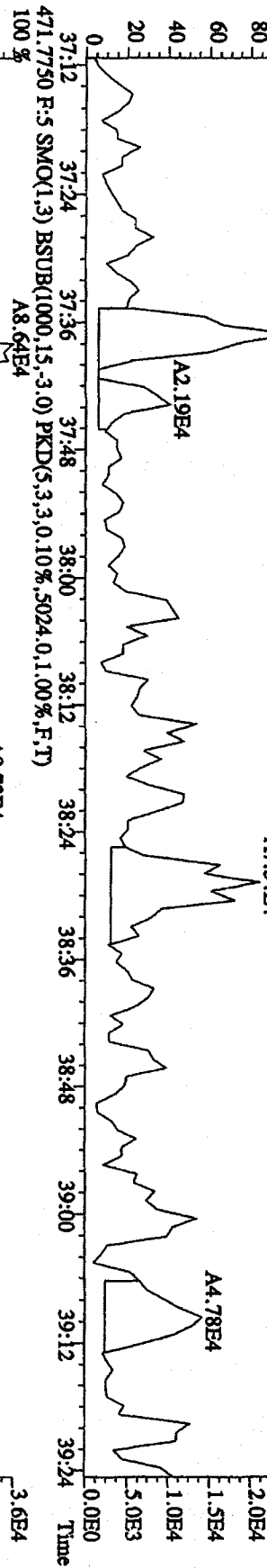
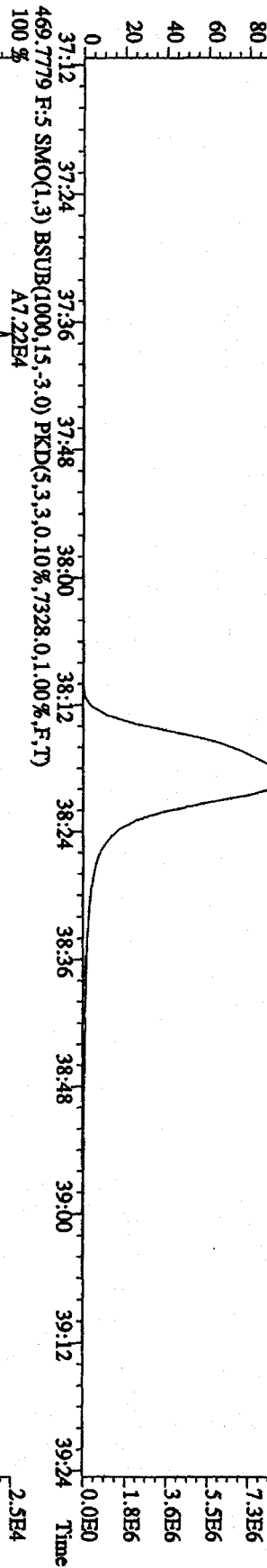
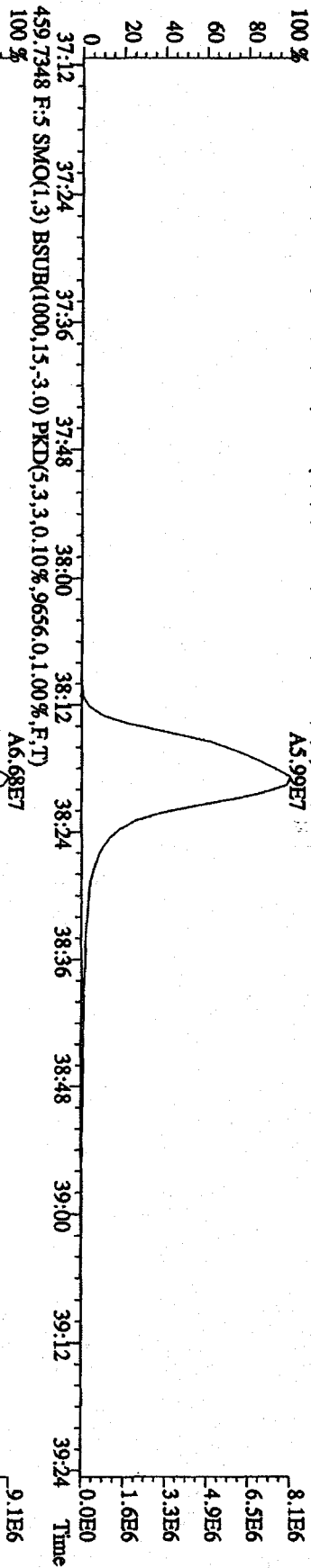
File:31DE09A1D5 #1-228 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CP5M 3732-04 Exp:DIOXIN
 423.7766 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8844,0,1,00%,F,T)
 100 %



File:31DE09A1D5 #1-161 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPSM 3732-04 Exp:DIOXIN
 441.7428 F:5 SMO(1.3) BSUB(1000.15,-3.0) PKD(5.3,3.0,10%,4780.0,1.00%,F,T)



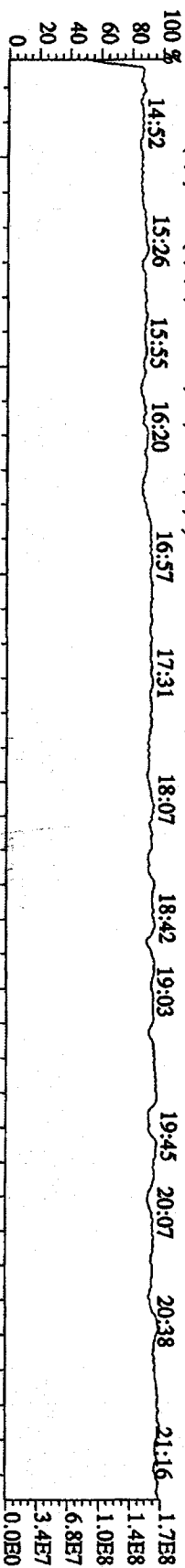
File:31DE09A1D5 #1-161 Acq:31-DEC-2009 23:25:43 GC EI + Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CP5M 3732-04 Exp:DIOXIN
 457.7377 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,0.10%,7308,0.1,00%,F,T)
 100 %



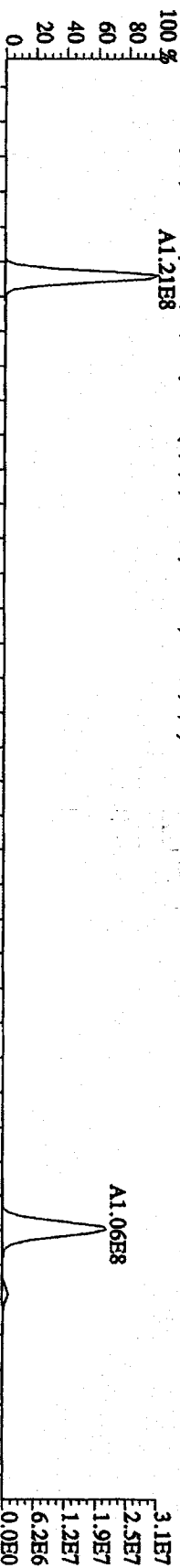
File:31DE09A1D5 #1.410 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE

Sample#1 Text:CP1231A :DB-5 CPSM 3732-04 Exp:DIOXIN

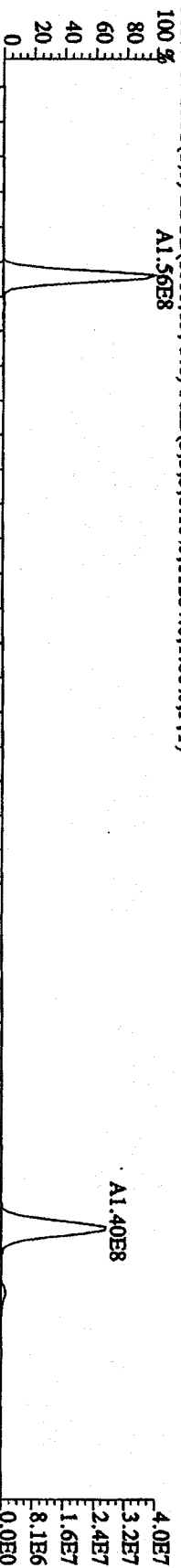
292.9825 SMO(1.3) PKD(5.3,5.100,0.0%,0.0,1.00%,F,T)



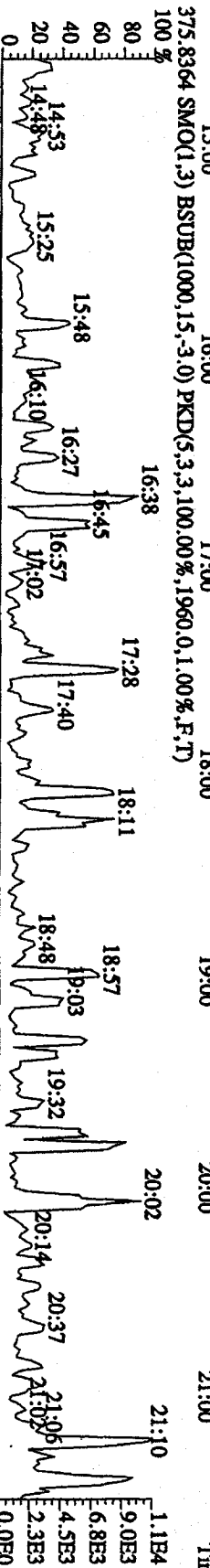
303.9016 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,7492,0,1.00%,F,T)



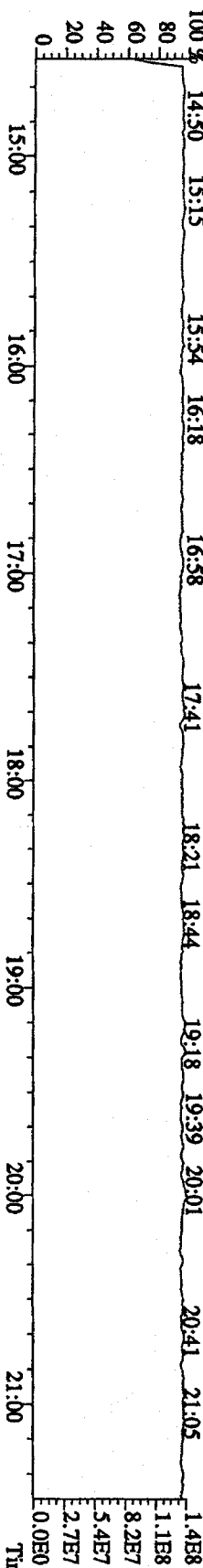
305.8987 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,11284,0,1.00%,F,T)



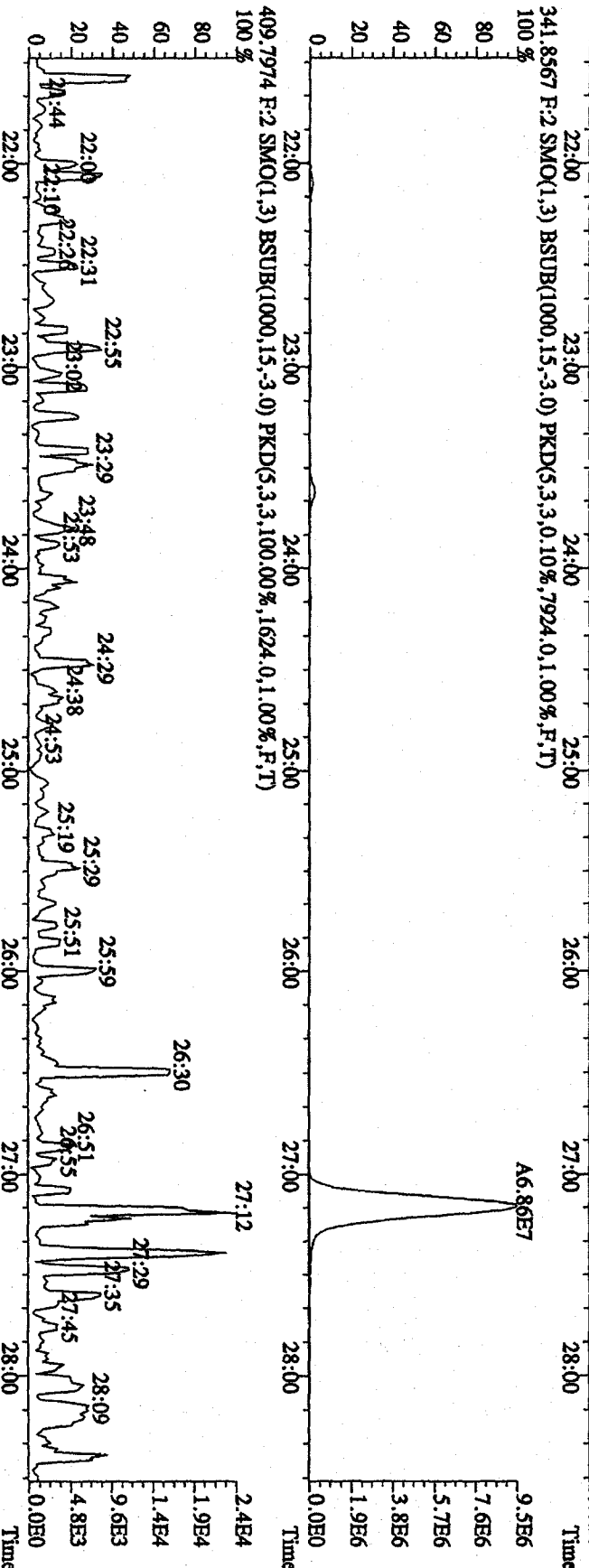
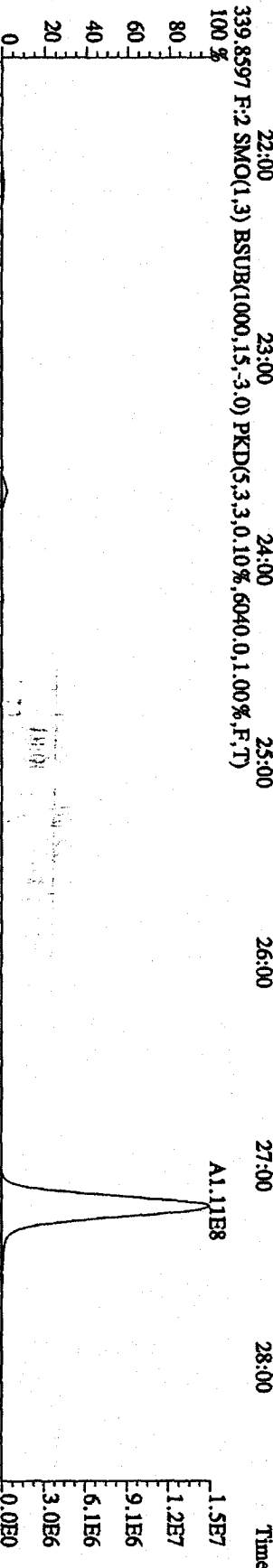
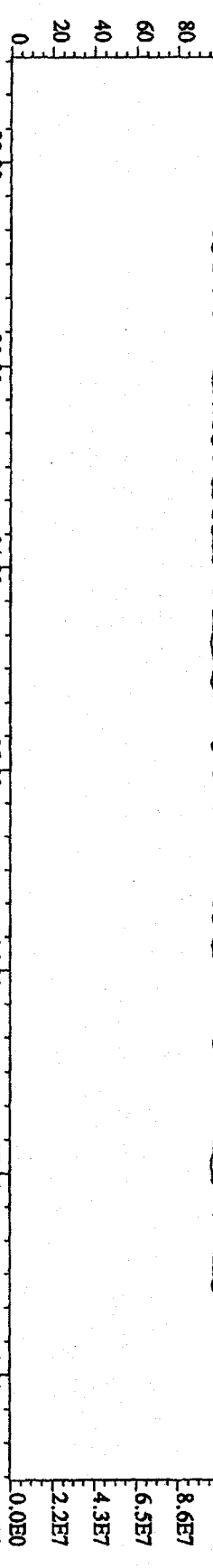
375.8364 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.100,0.0%,1960,0,1.00%,F,T)



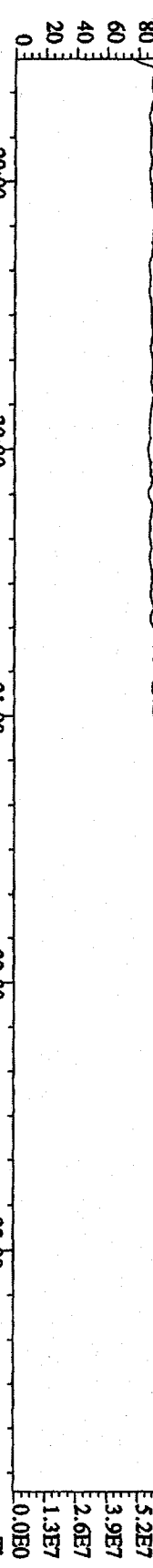
330.9792 SMO(1.3) PKD(5.3,3.100,0.0%,0.0,1.00%,F,T)



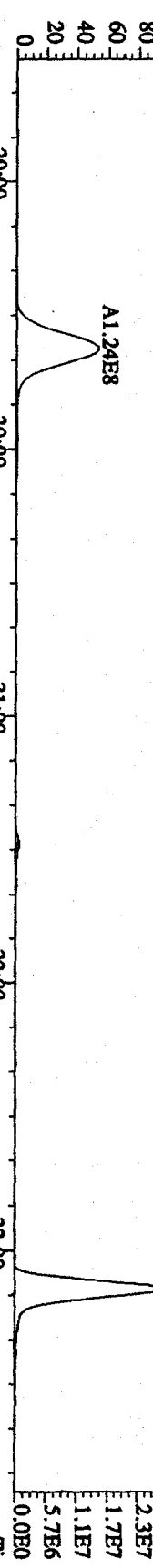
File:31DE09A1D5 #1-496 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CP5M 3732-04 Exp:DIOXIN
 342.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)
 100 % 22:14 22:55 23:31 24:03 24:29 24:56 25:34 26:09 26:40 27:23 27:50 28:29



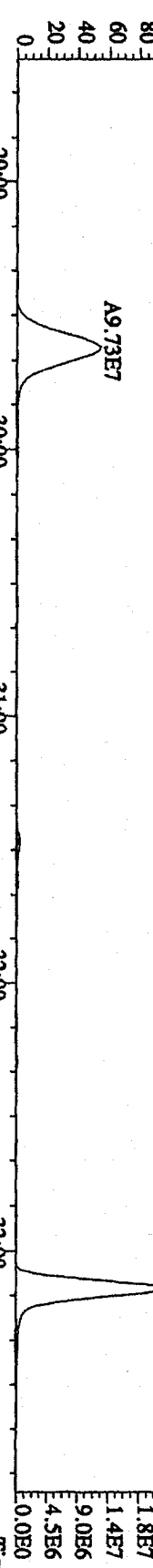
File: 31DE09A1D5 #1-361 Acq: 31-DEC-2009 23:25:43 GC EI+ Voltage SFR 70SE
 Sample#1 Text: CP1231A :DB-5 CP5M 3732-04 Exp: DIOXIN
 392.9760 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 28:41 29:08 29:48 30:13 30:49 31:17 31:34 31:51 32:20 32:39 33:04 33:24 33:48



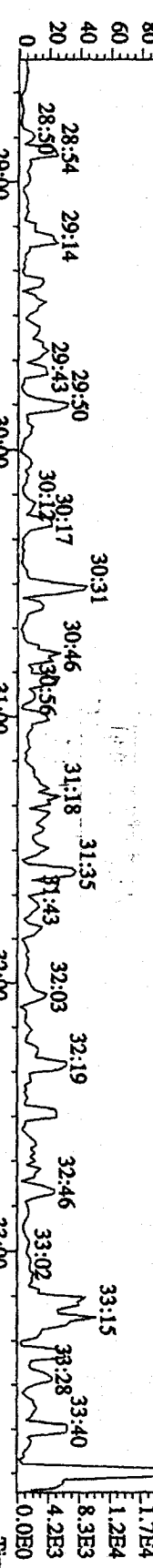
373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16148,0.1,00%,F,T)
 100% 29:00 29:00 30:00 30:00 31:00 31:00 32:00 32:00 33:00 33:00
 2.8E7
 2.3E7
 1.7E7
 1.1E7
 5.7E6
 0.0E0



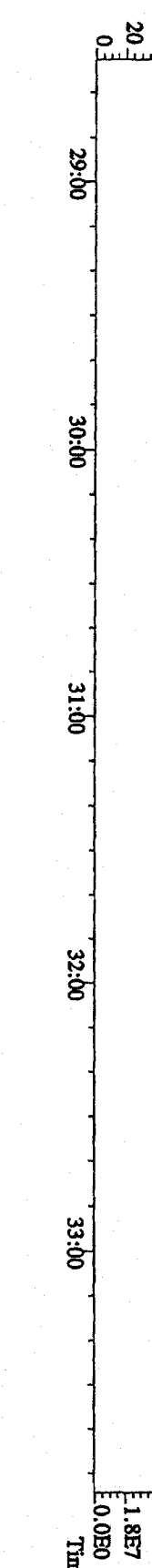
375.8178 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7720,0.1,00%,F,T)
 100% 29:00 29:00 30:00 30:00 31:00 31:00 32:00 32:00 33:00 33:00
 2.3E7
 1.8E7
 1.4E7
 9.0E6
 4.5E6
 0.0E0



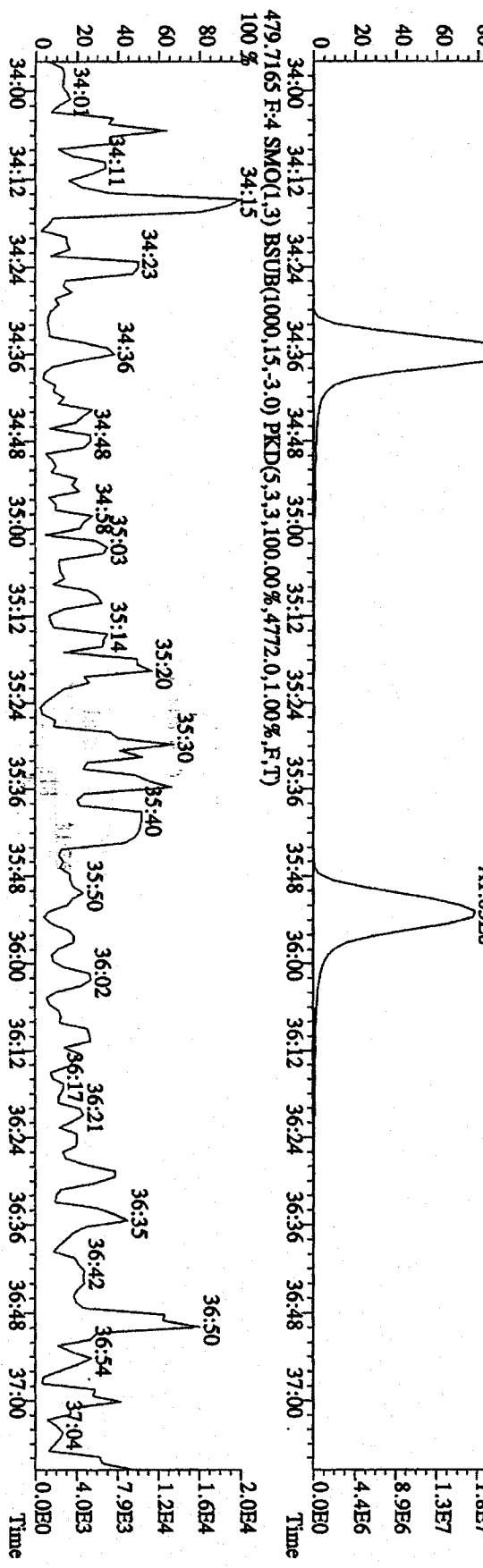
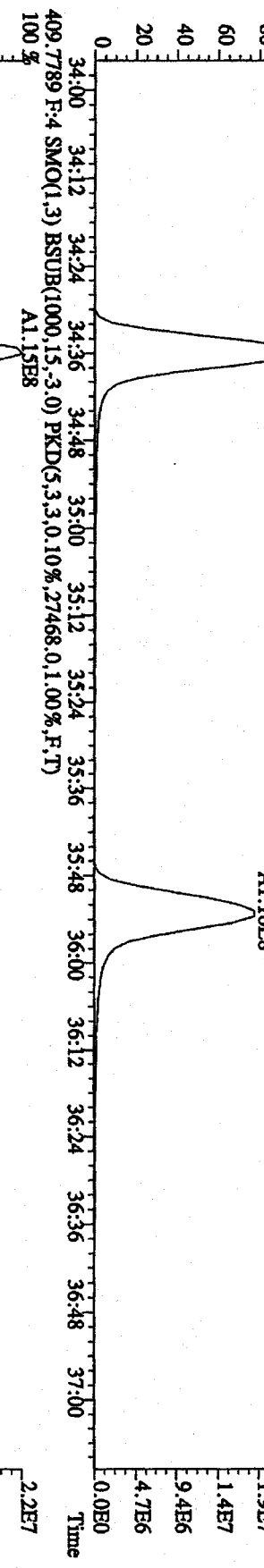
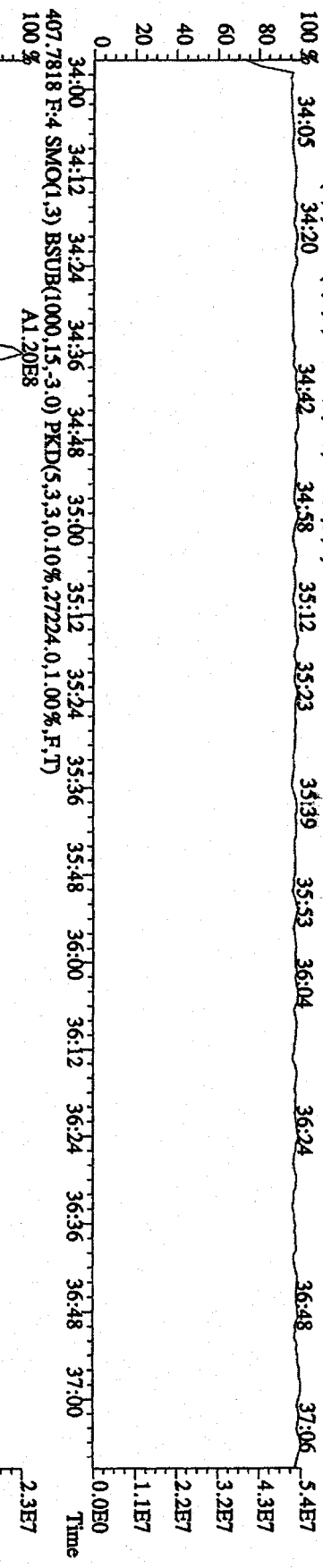
445.7555 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1952,0.1,00%,F,T)
 100% 29:00 29:00 30:00 30:00 31:00 31:00 32:00 32:00 33:00 33:00
 2.1E4
 1.7E4
 1.2E4
 8.3E3
 4.2E3
 0.0E0



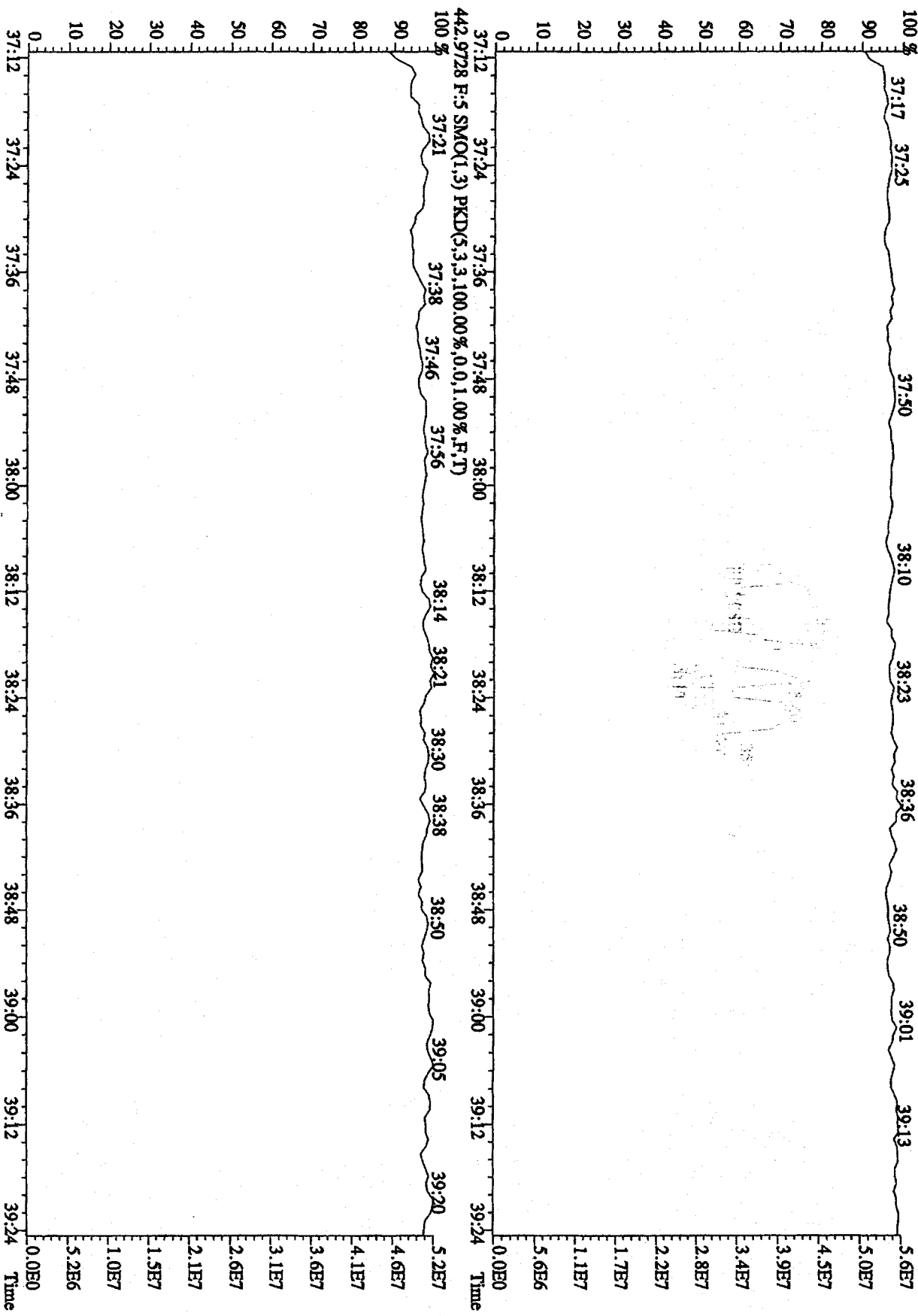
380.9760 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 28:42 29:16 29:43 30:11 30:31 30:53 31:22 31:45 32:04 32:32 33:07 33:40
 9.0E7
 7.2E7
 5.4E7
 3.6E7
 1.8E7
 0.0E0



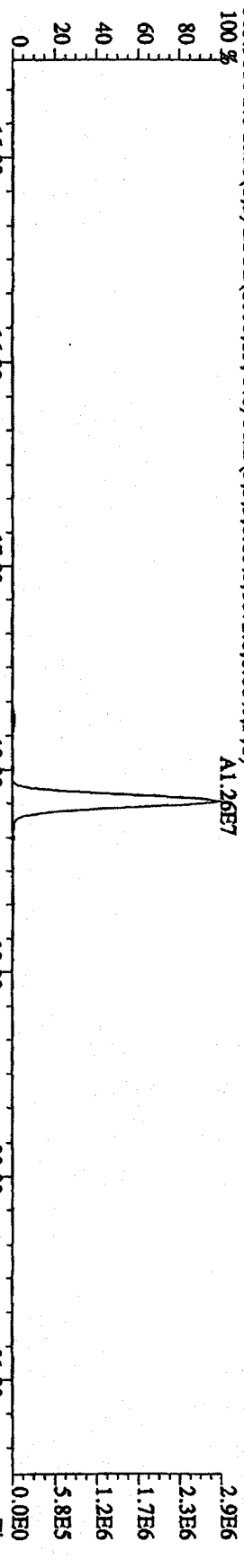
File:31DE09A1D5 #1-228 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SRR 70SE
 Sample#1 Text:CP1231A :DB-5 CP5M 3732-04 Exp:DIOXIN
 430.9728 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 34:05 34:20 34:42 34:58 35:12 35:23 35:39 35:53 36:04 36:24 36:48 37:06



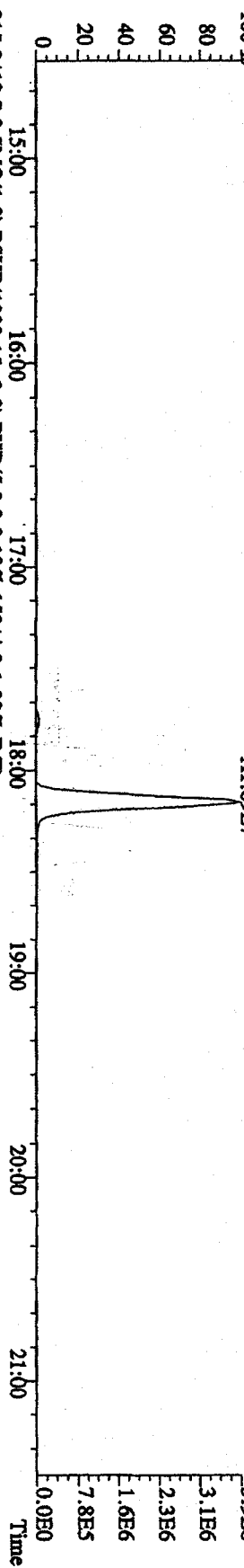
File:31DE09AIDS #1-161 Acq:31-DEC-2009 23:25:43 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1231A :DB-5 CPSM 3732-04 Exp:DIOXIN
 454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



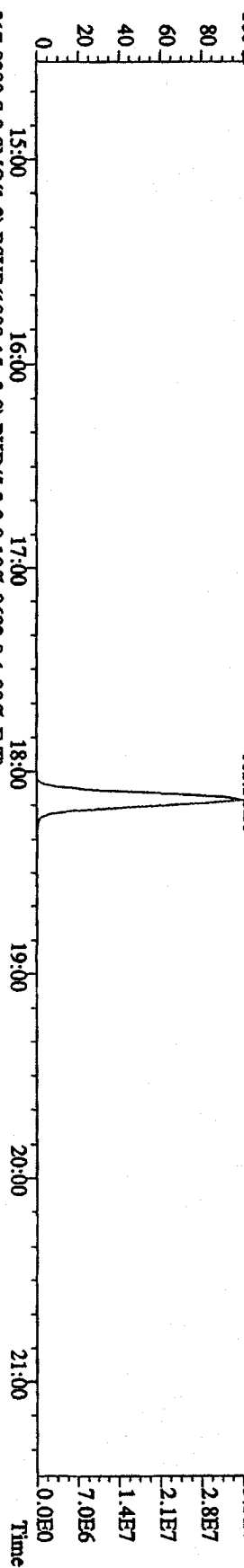
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 04:19:56 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6072,0,1,00%,F,T)
 100 %



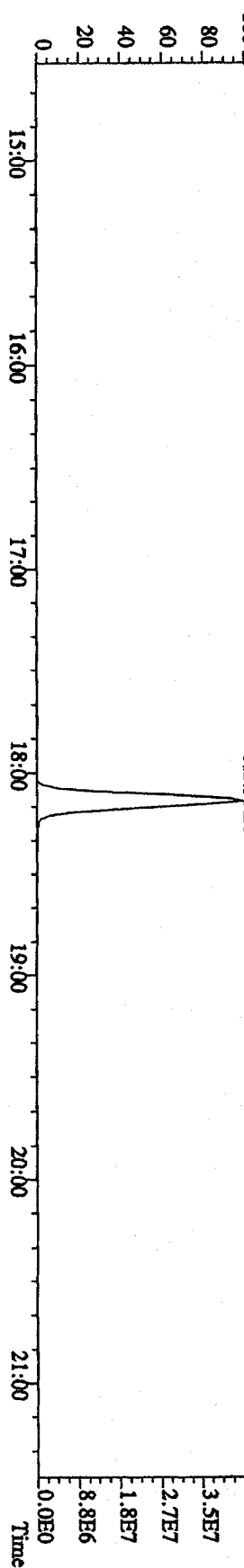
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7420,0,1,00%,F,T)
 100 %



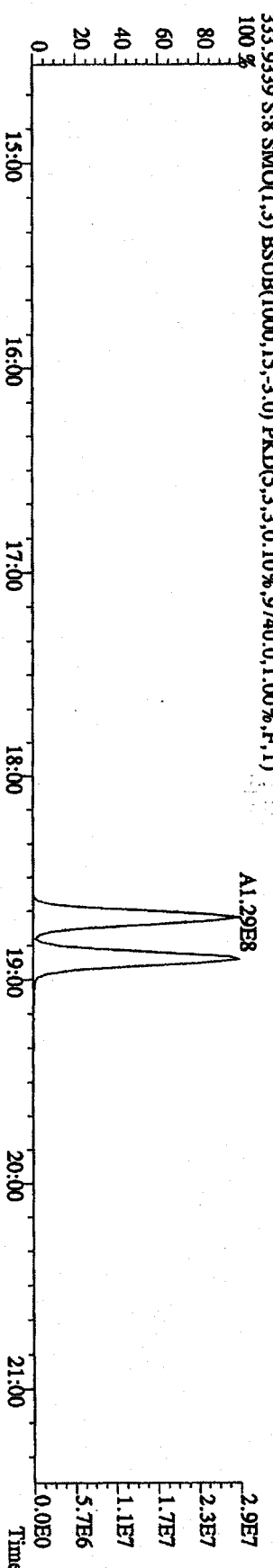
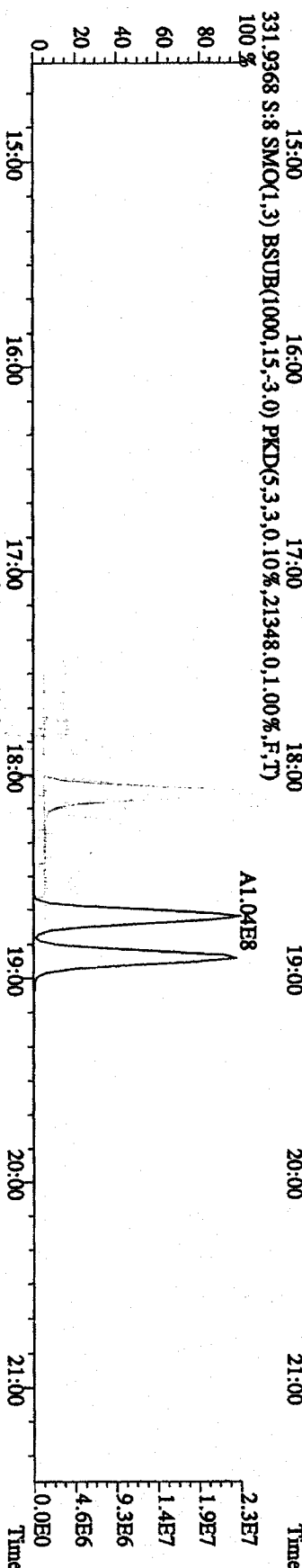
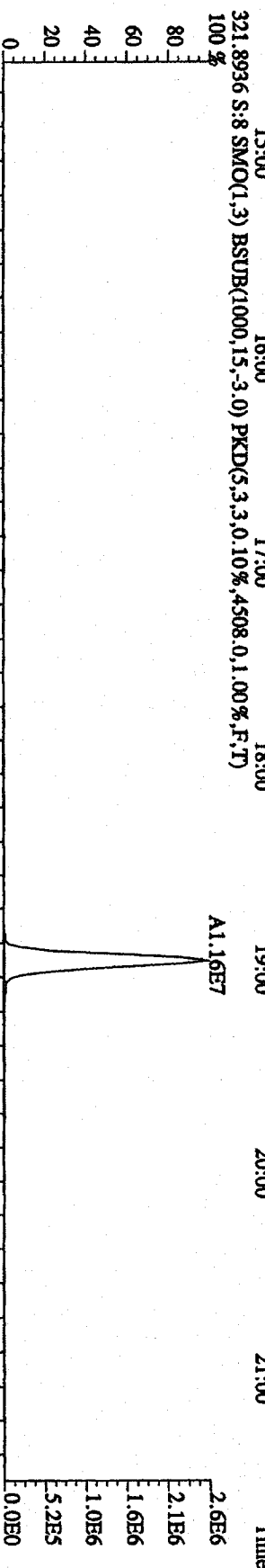
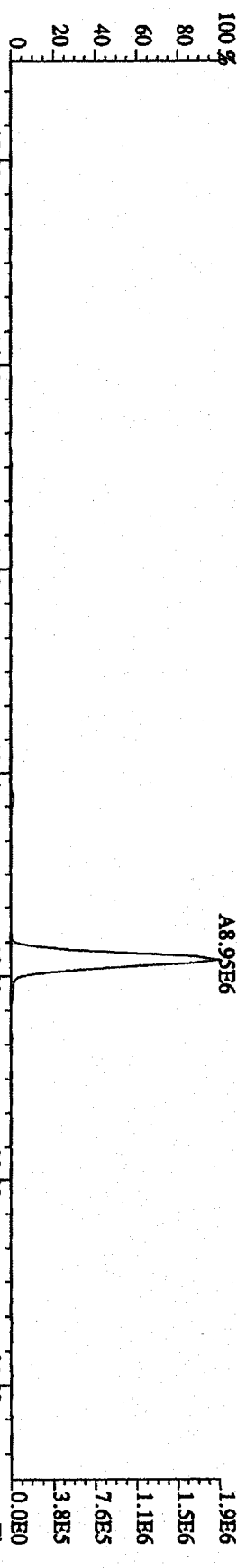
315.9419 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15844,0,1,00%,F,T)
 100 %



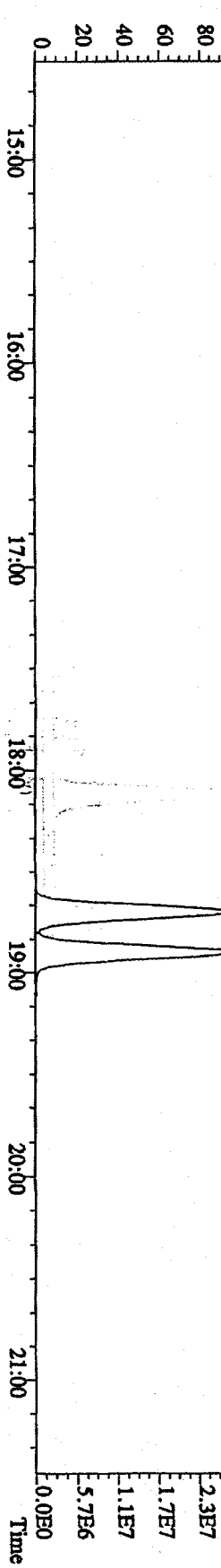
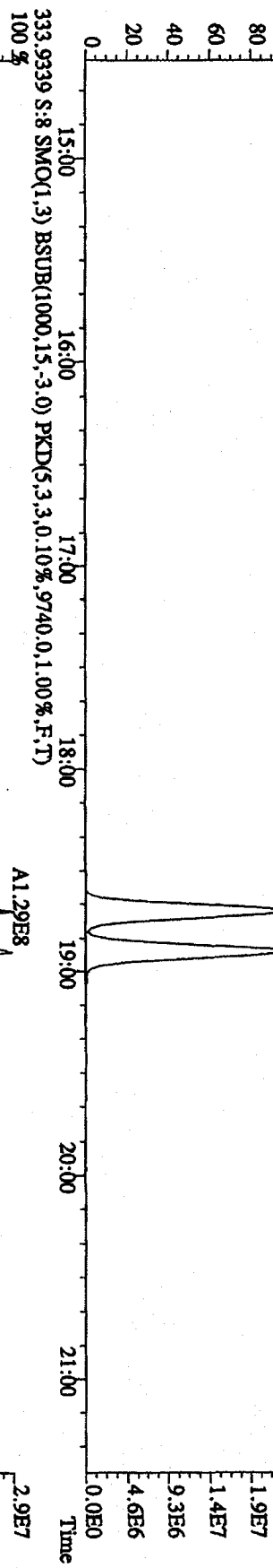
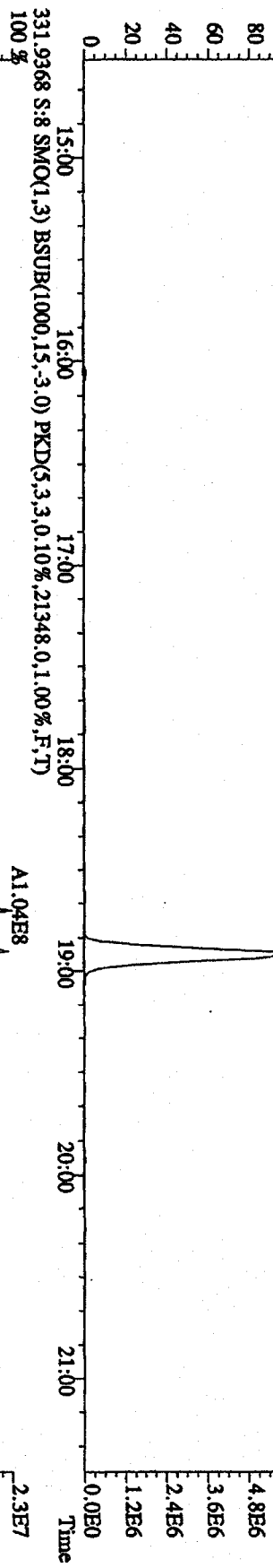
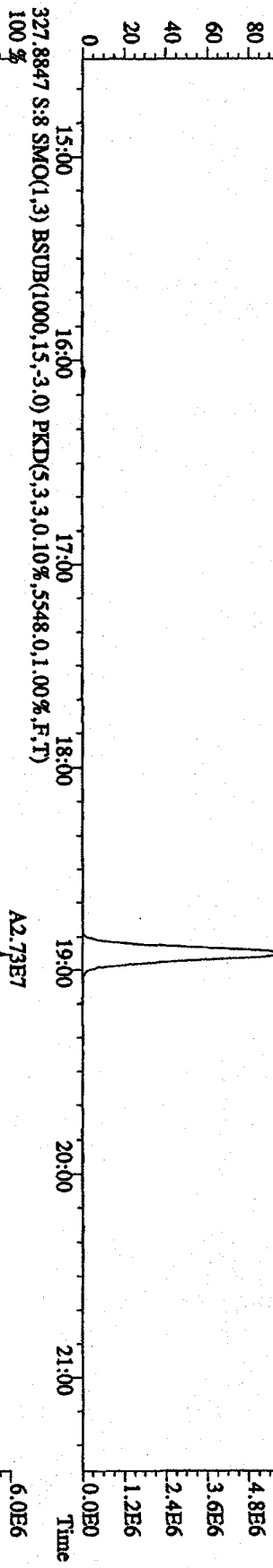
317.9389 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9692,0,1,00%,F,T)
 100 %



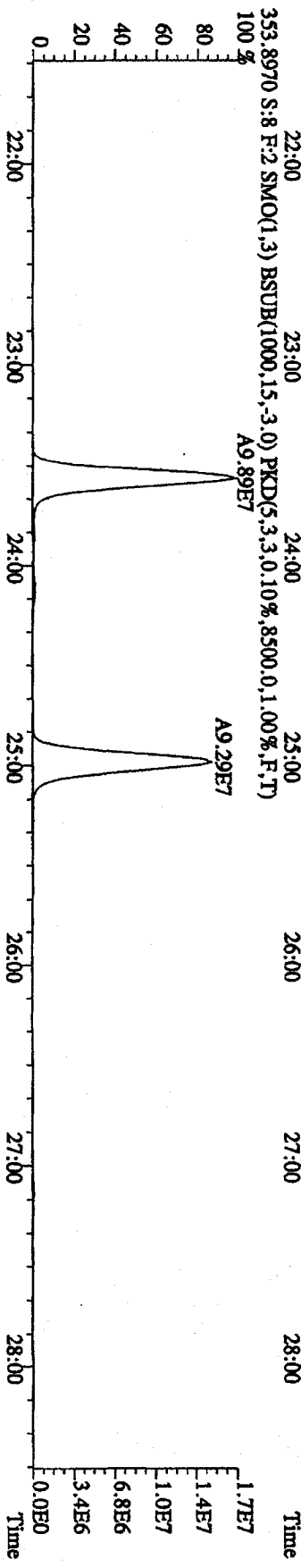
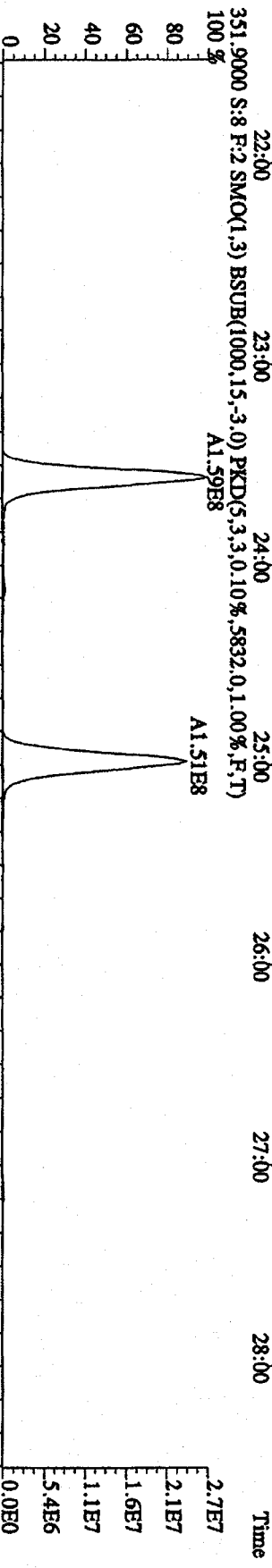
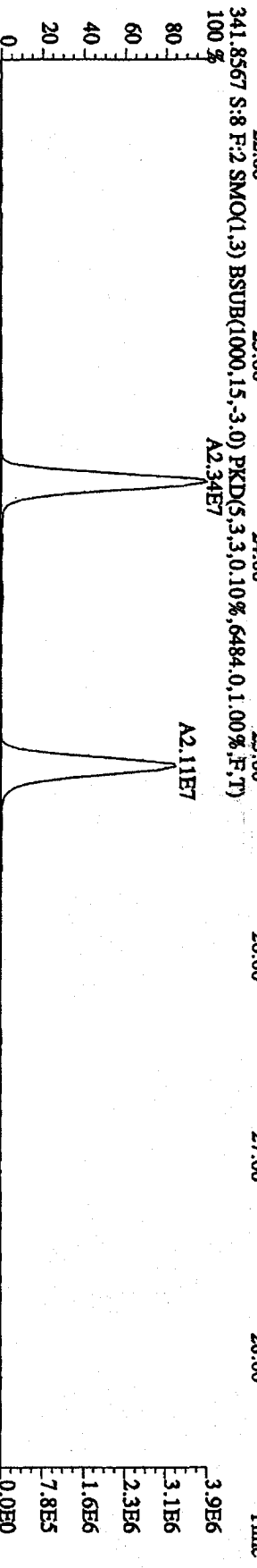
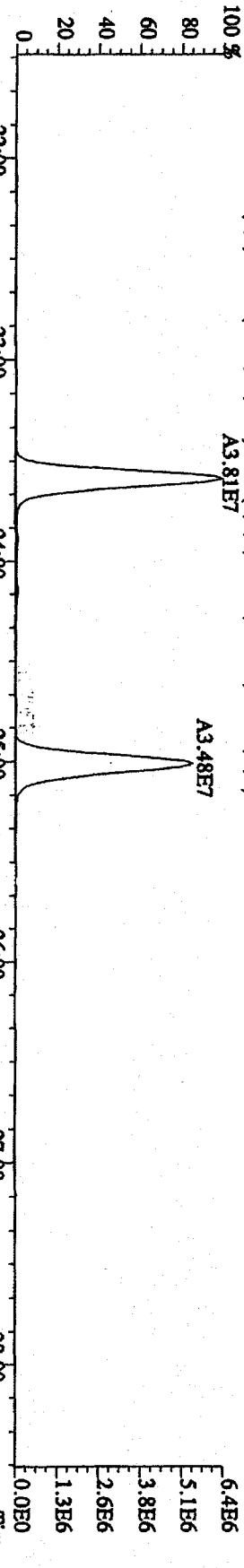
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 04:19:56 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4932,0,1,00%,F,T)



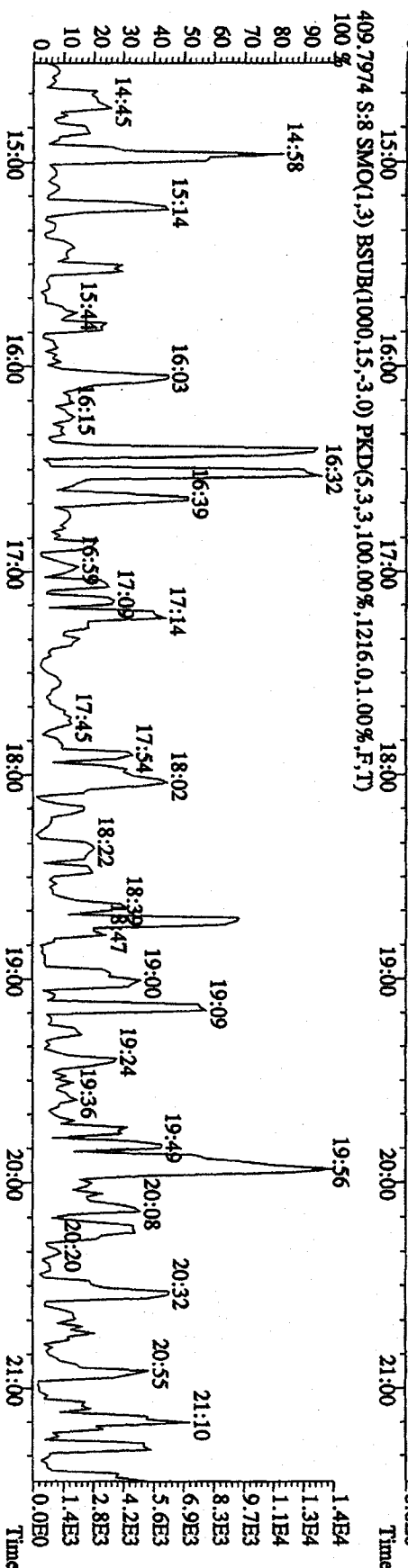
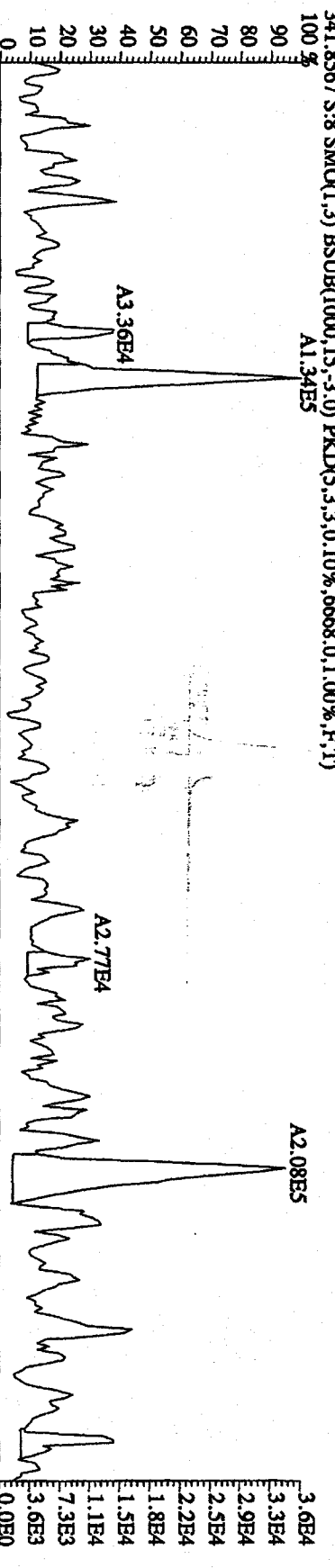
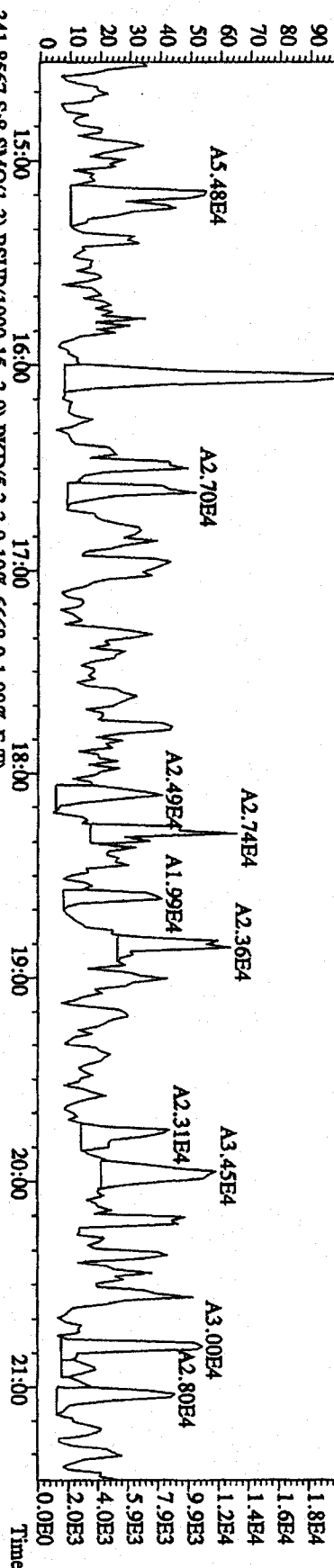
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 04:19:56 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 327.8847 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5548,0,1,00%,F,T)
 100%



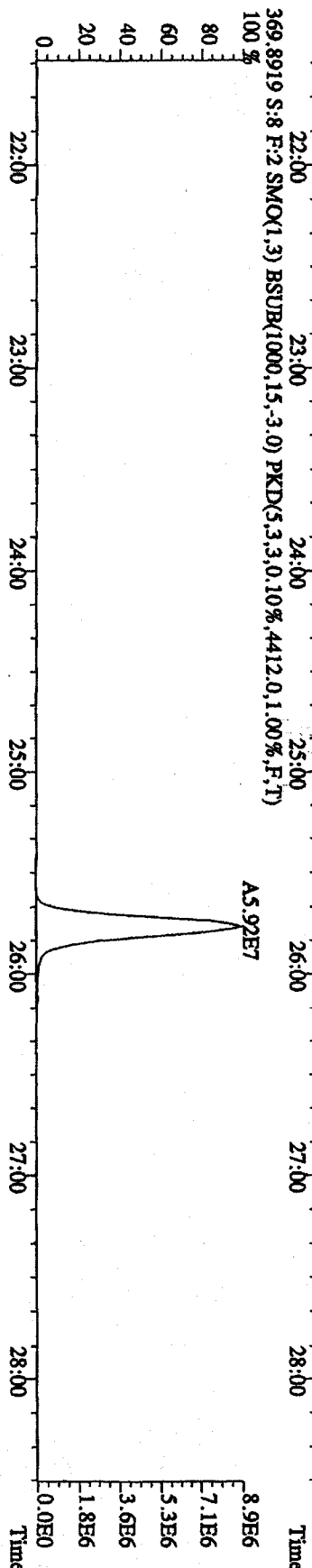
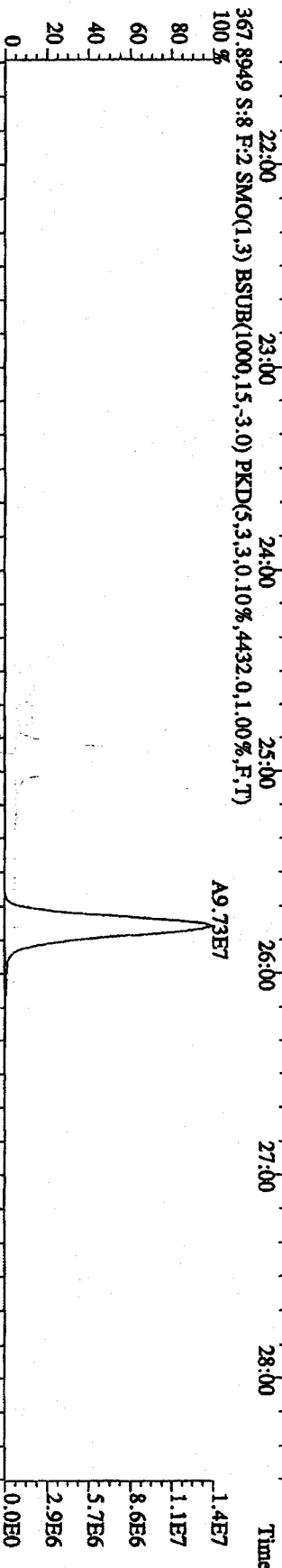
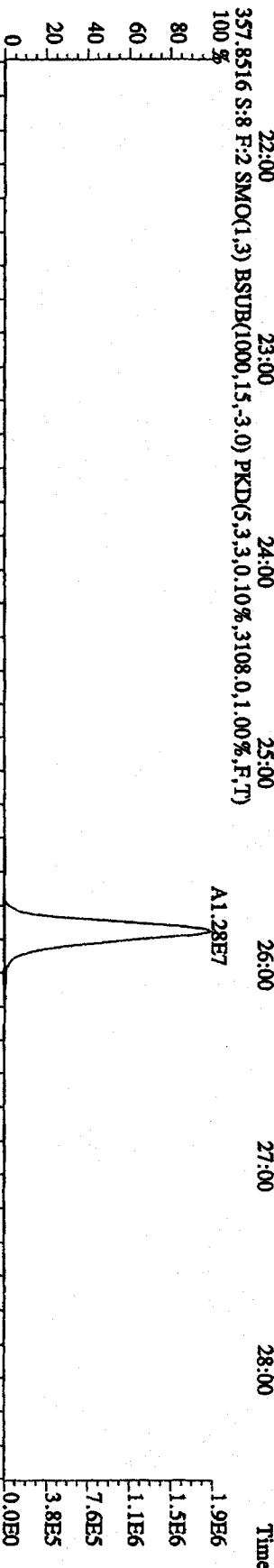
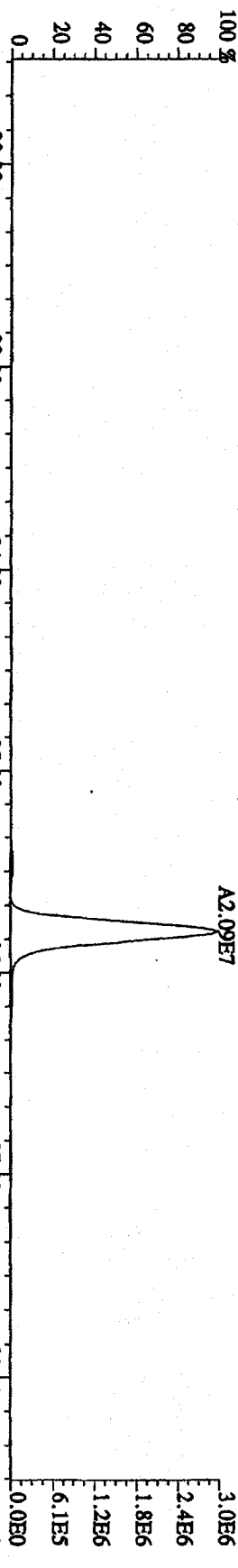
File:31DE09A1D5 #1-495 Acq: 1-JAN-2010 04:19:56 GC EI + Voltage SIR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6180,0.1,00%,F,T)
 100 %



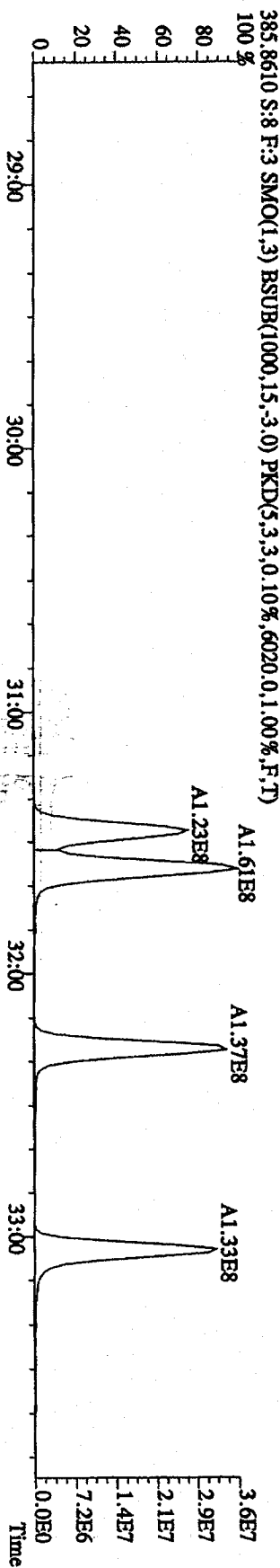
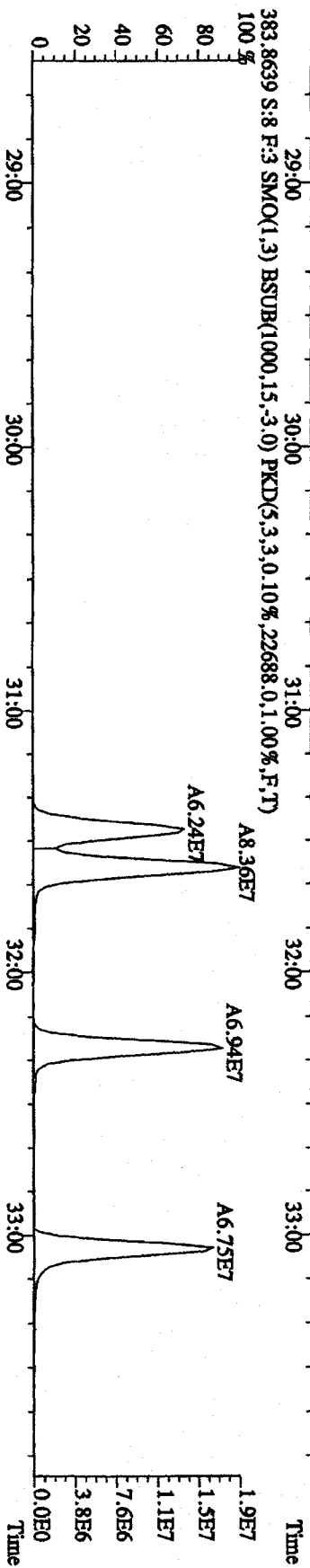
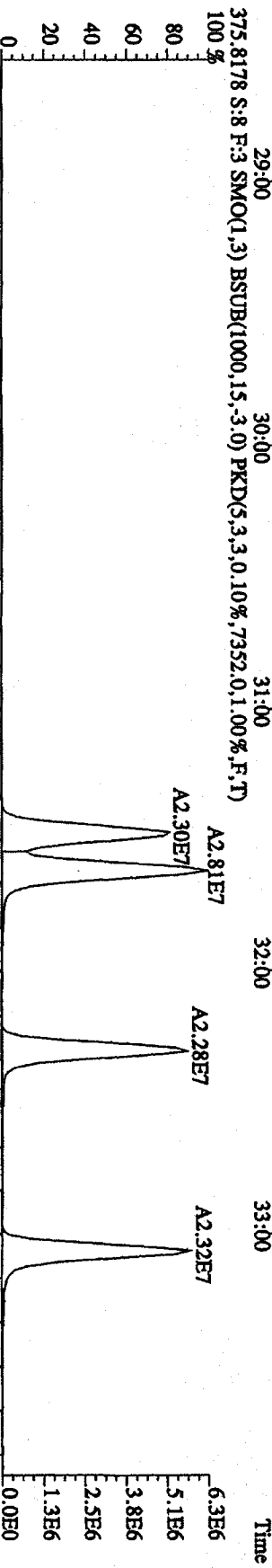
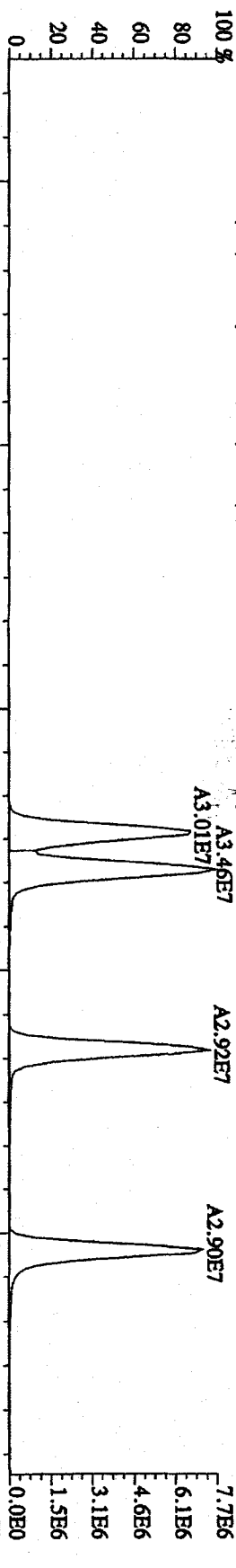
File:31DE09AID5 #1-411 Acq: 1-JAN-2010 04:19:56 GC EI + Voltage SIR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 339.8597 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4176.0,1.00%,F,T)



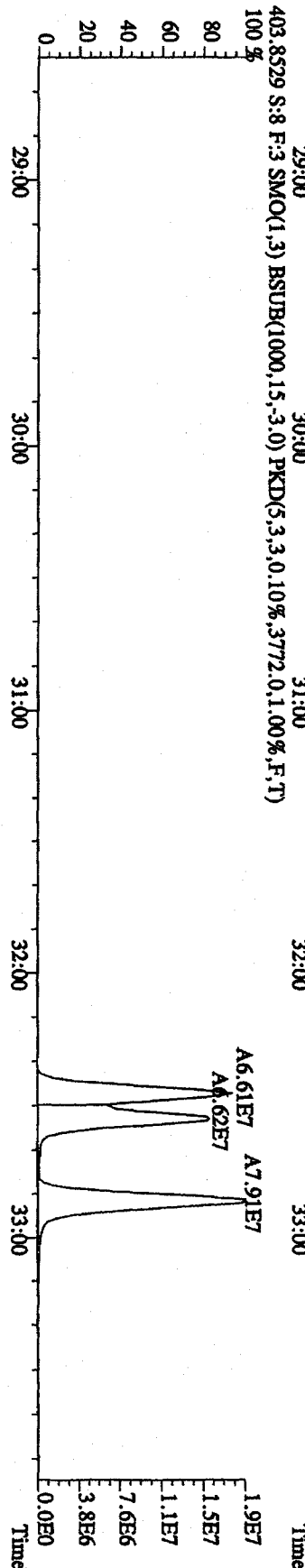
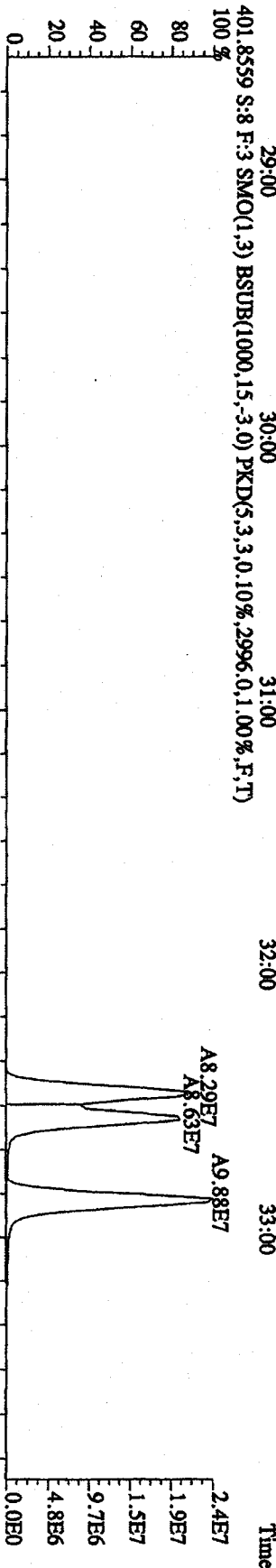
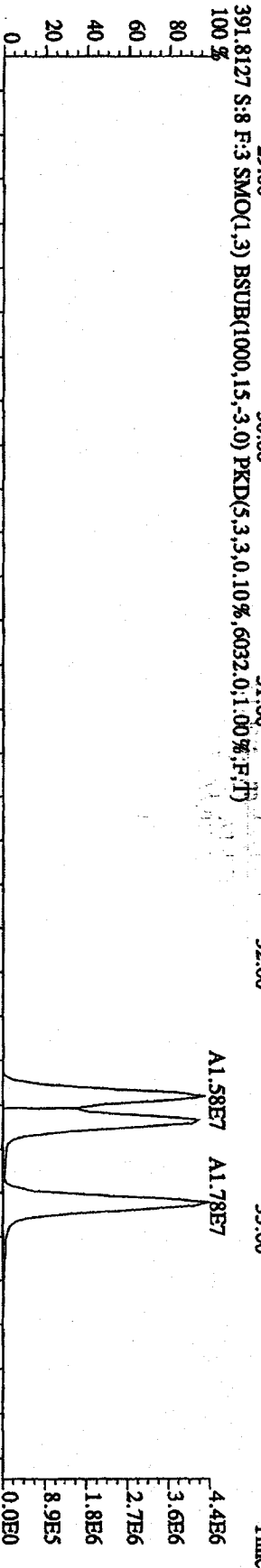
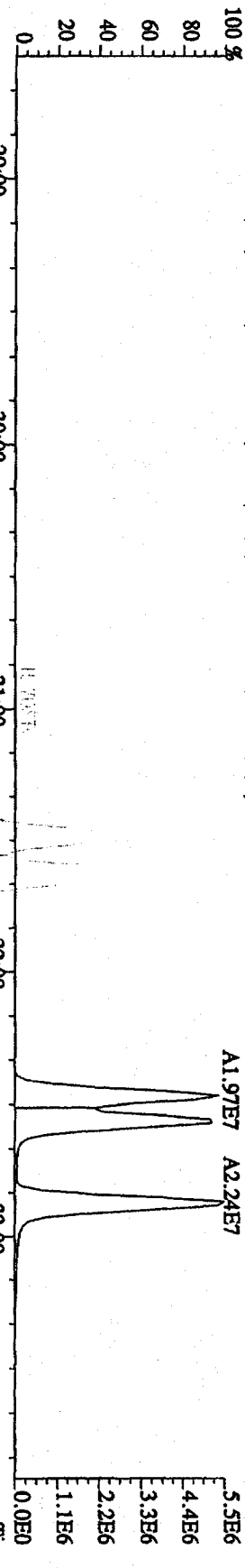
File:31DE09A1D5 #1-495 Acq: 1-JAN-2010 04:19:56 GC EI + Voltage SIR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.4432,0.1,0.00%,F,T)
 100 %



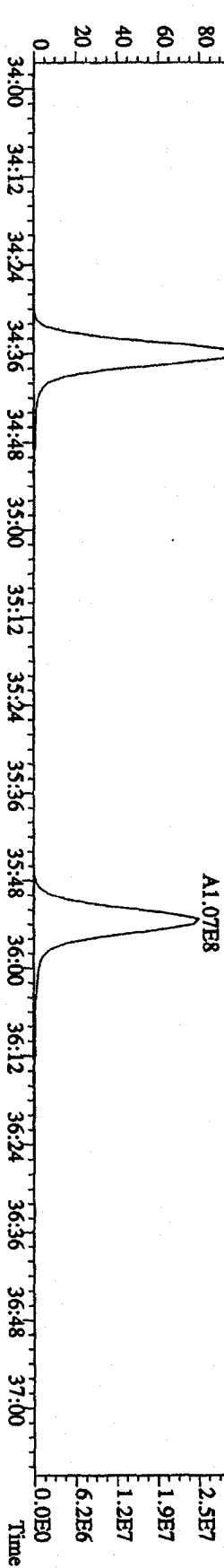
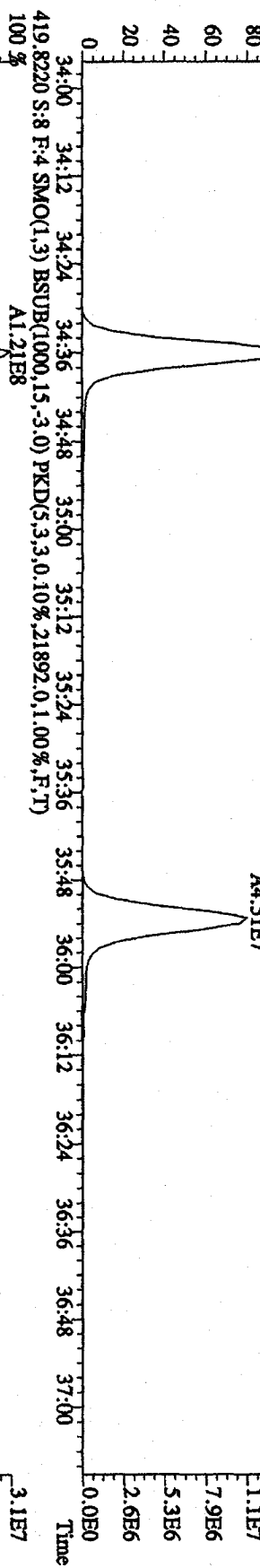
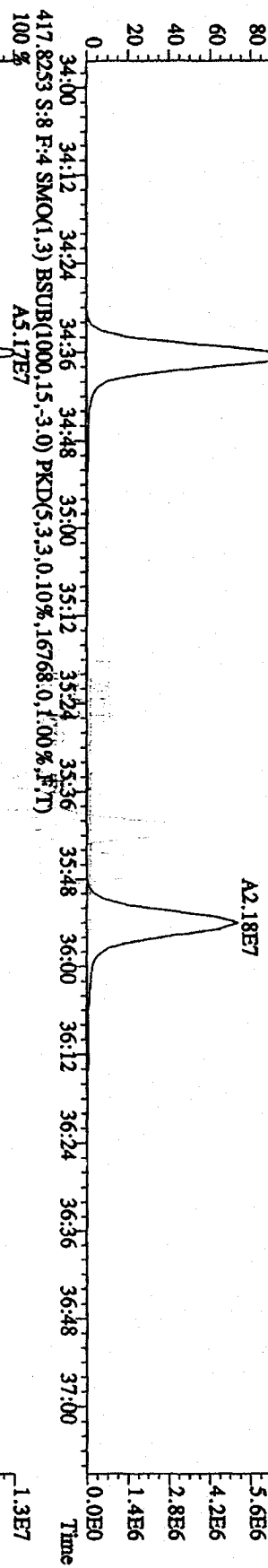
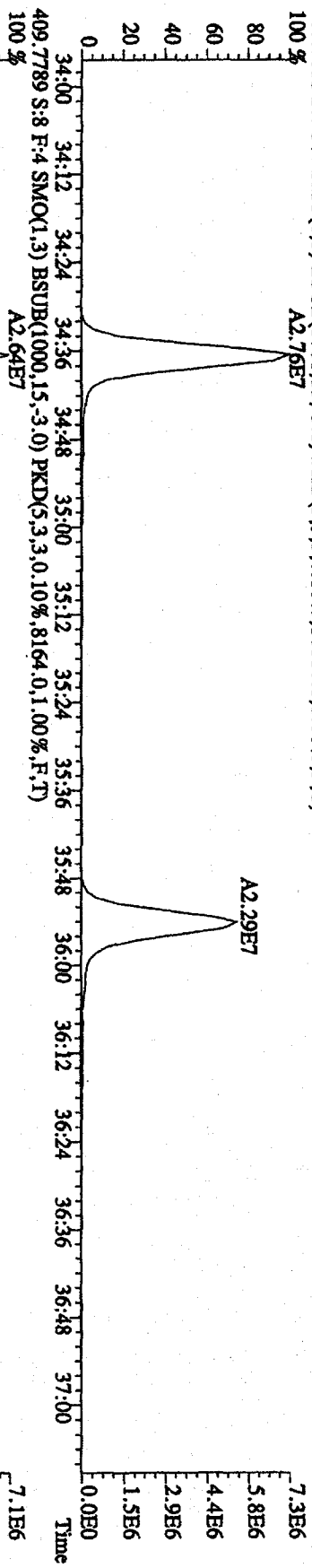
File:31DE09A1IDS #1-362 Acq: 1-JAN-2010 04:19:56 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,12624,0.1,00%,F,T)



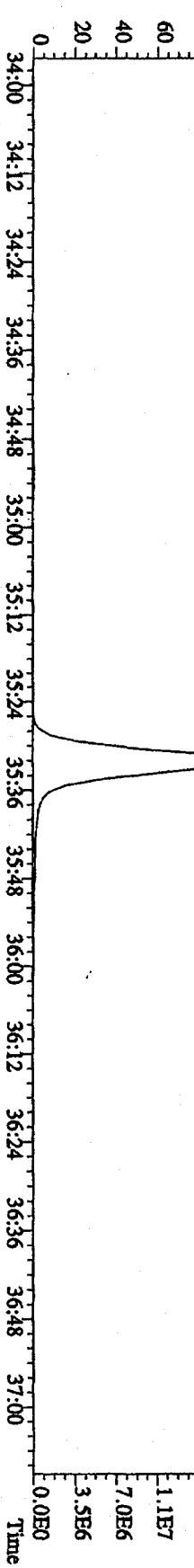
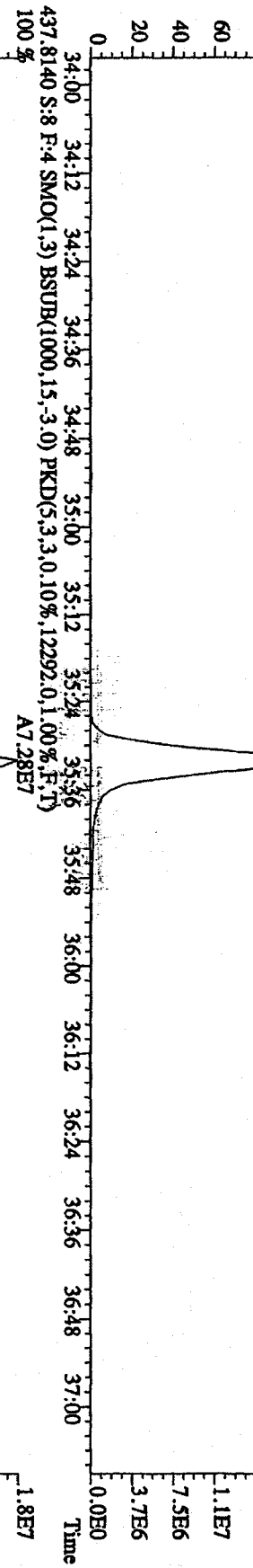
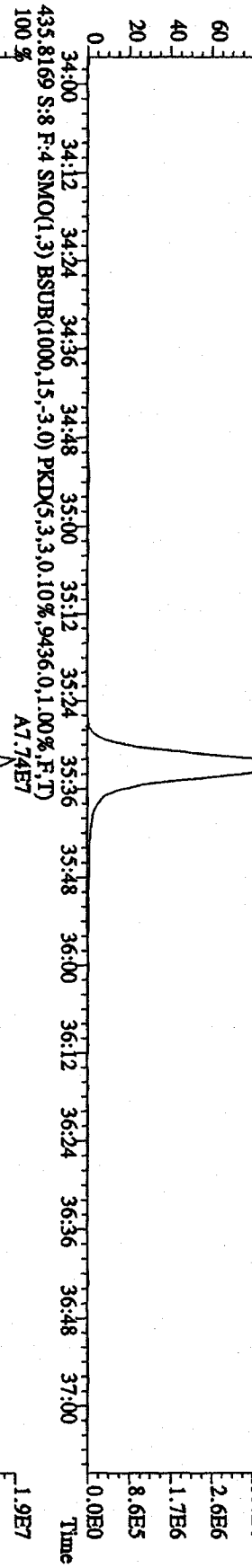
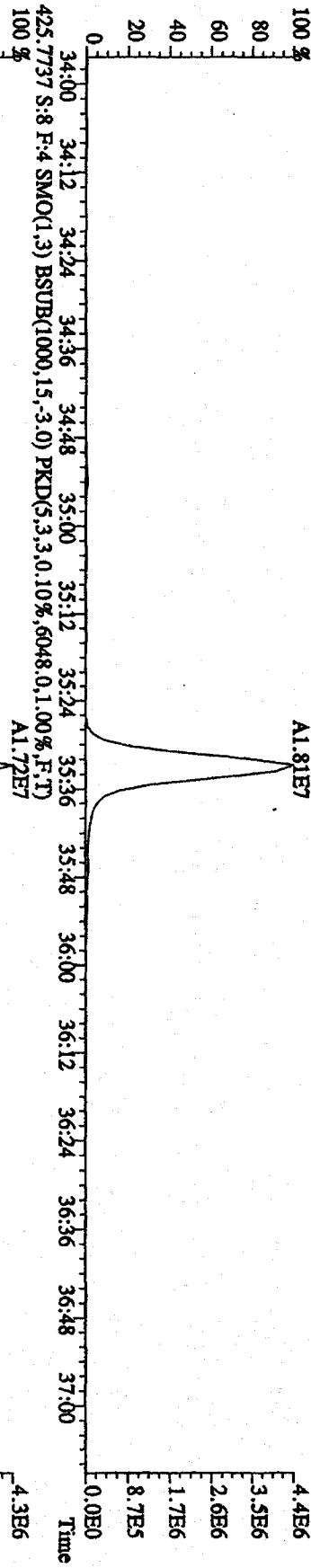
File:31DE09A1D5 #1-362 Acq: 1-JAN-2010 04:19:56 GC:EI + Voltage SIR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3308,0,1,00%,F,T)
 100 %



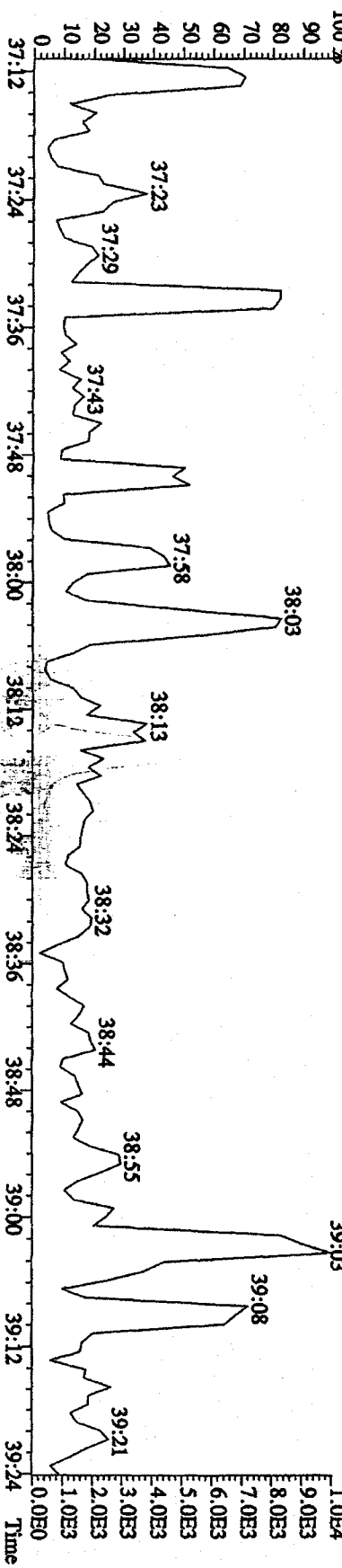
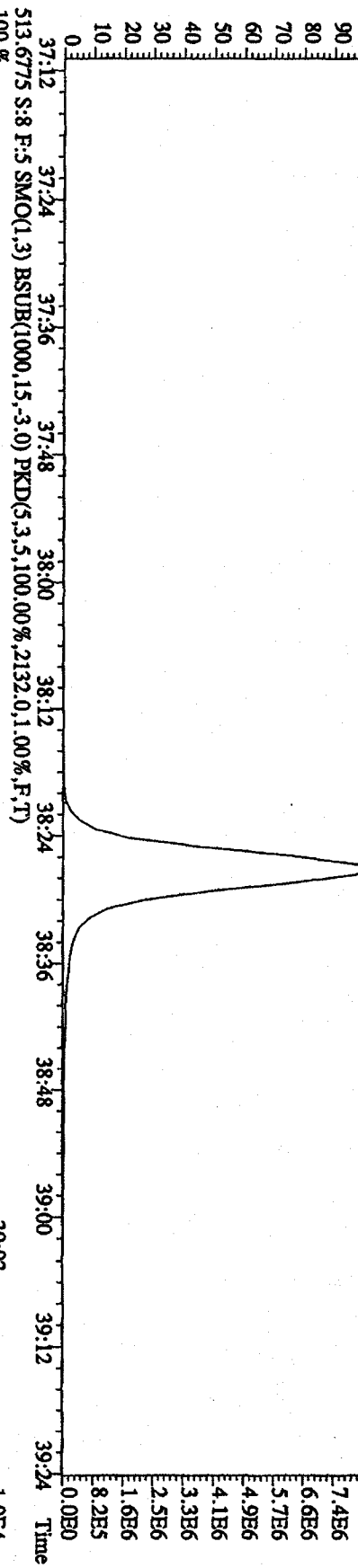
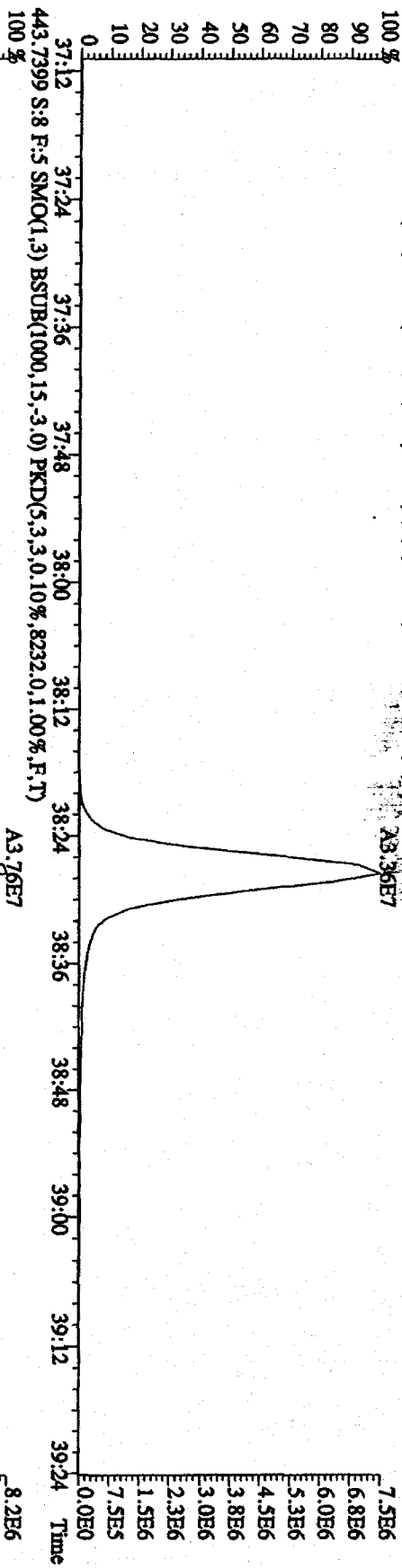
File:31DE09A1D5 #1-227 Acq: 1-JAN-2010 04:19:56 GC EI + Voltage SRR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10016,0.1,00%,F,T)
 100 %



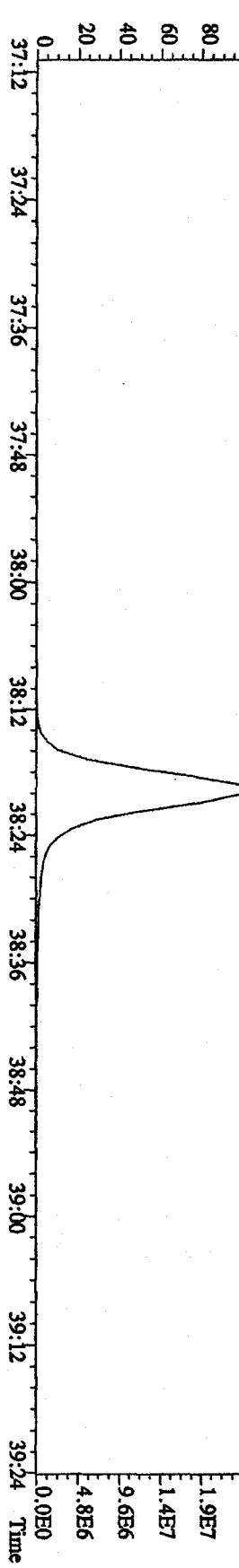
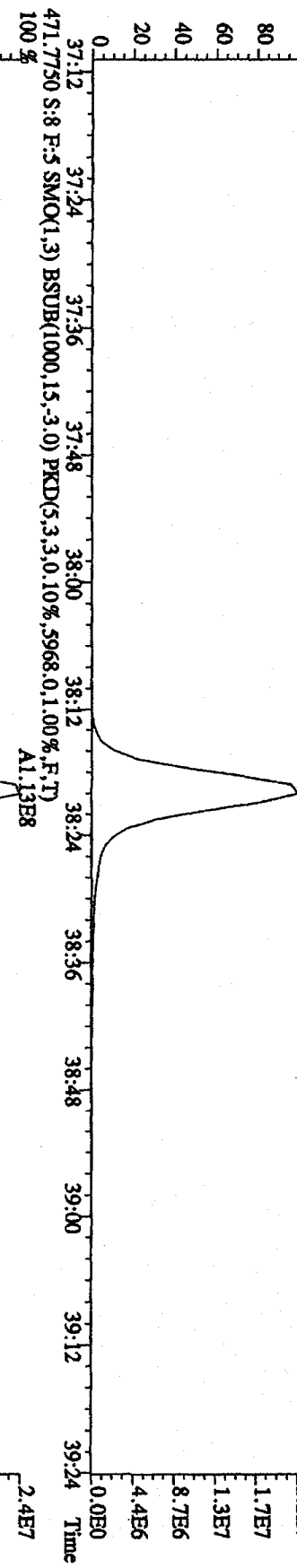
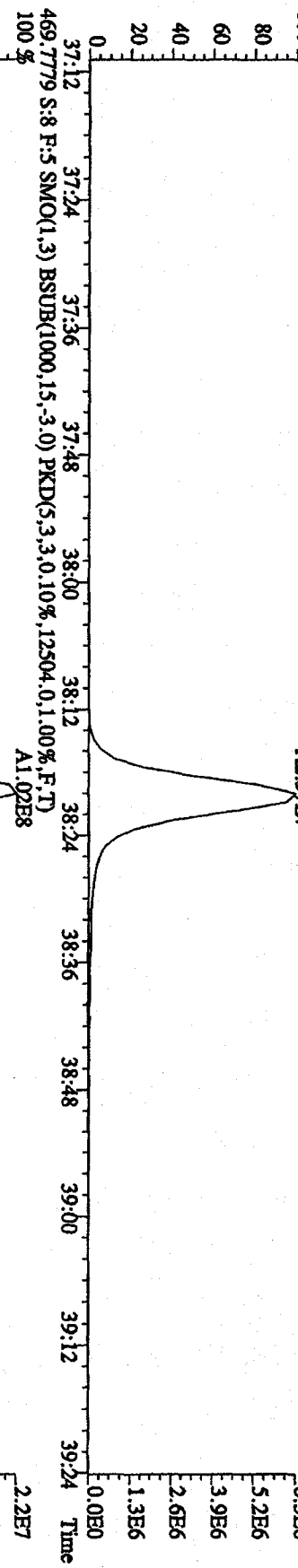
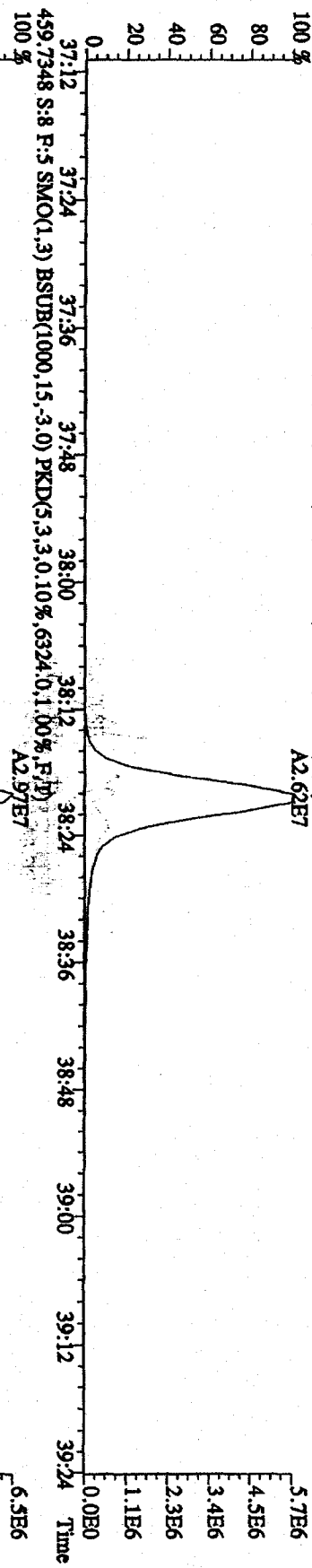
File:31DE09A1D5 #1-227 Acq: 1-JAN-2010 04:19:56 GC EI + Voltage SIR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7756,0,1,00%,F,T)
 100 %



File: 31DE09A1D5 #1-161 Acq: 1-JAN-2010 04:19:56 GC EI+ Voltage SIR 70SE
 Sample#8 Tert: ST1231G 2nd Source 09DPKN449 Exp: DIOXIN
 441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5508,0.1,0.00%,F,T)



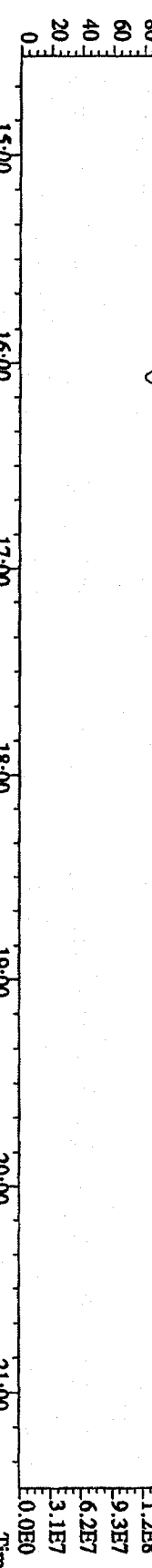
File:31DE09A1D5 #1-161 Acq: 1-JAN-2010 04:19:56 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1231G 2nd Source 09DXN449 Exp:DIOXIN
 457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5416,0.1,00%,F,T)
 100 %



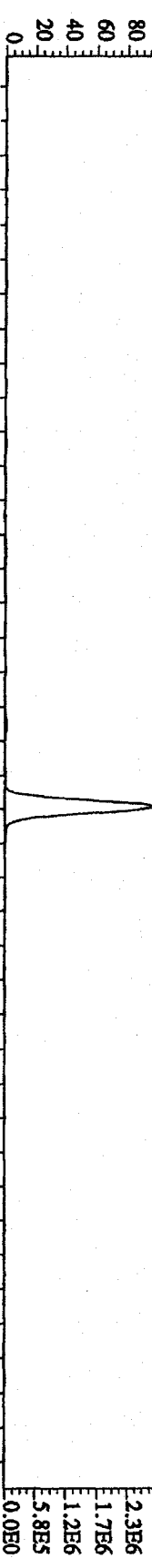
File:31DE09A1D5 #1-411 Acq: 1-JAN-2010 04:19:56 GC EI+ Voltage SFR 70SE

Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN

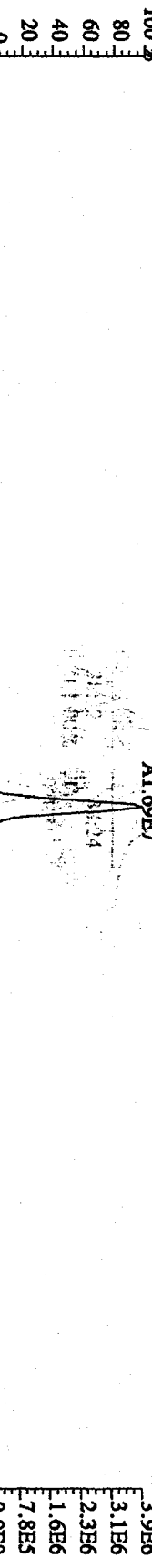
292.9825 S:8 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)



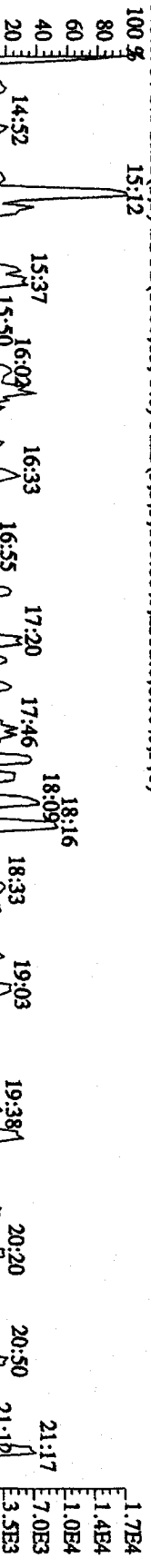
303.9016 S:8 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,6072,0,1,00%,F,T) A1.26E7



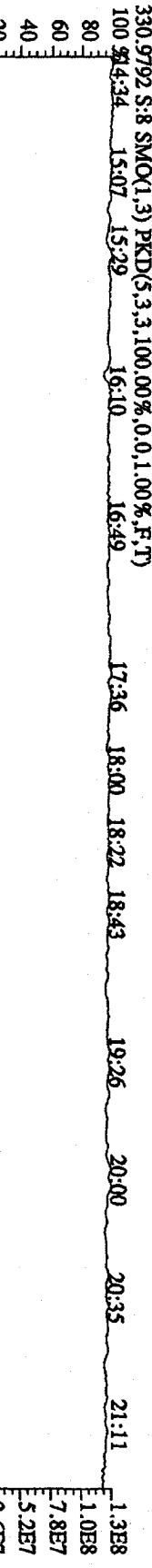
305.8987 S:8 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,7420,0,1,00%,F,T) A1.69E7



375.8364 S:8 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,100,00%,2352,0,1,00%,F,T)



330.9792 S:8 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



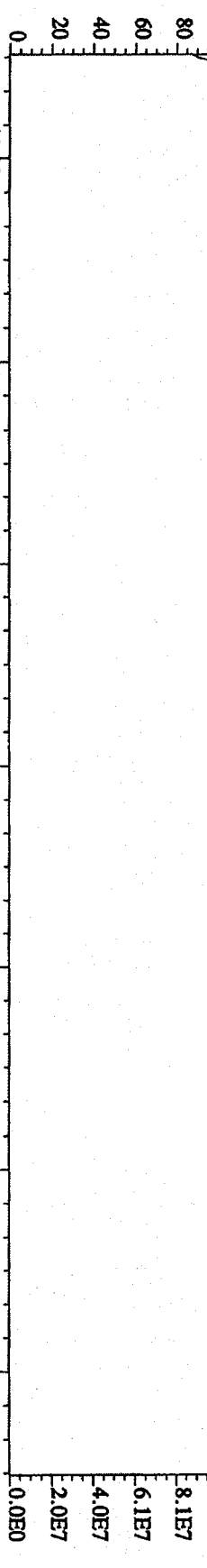
Time

File:31DE09AIDS #1-495 Acq: 1-JAN-2010 04:19:56 GC EI+ Voltage SIR 70SE

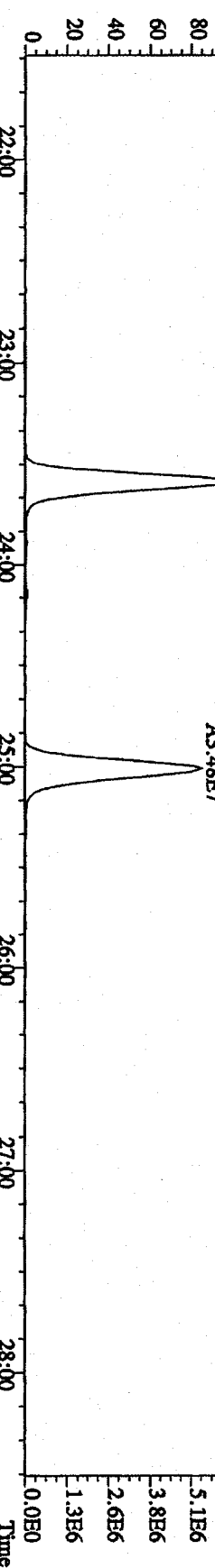
Sample#8 Text:ST123IG :2nd Source 09DXN449 Exp:DIOXIN

342.9792 S:8 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

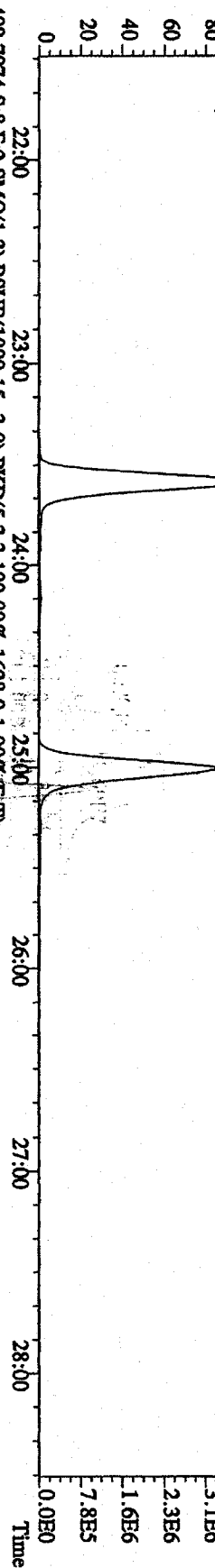
100% 21:53 22:14 22:40 23:13 23:46 24:27 25:08 25:54 26:19 26:42 27:11 27:38 28:18



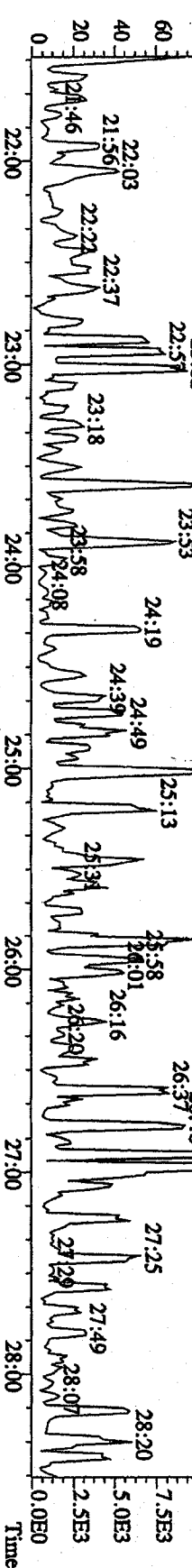
339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6180,0.1,00%,F,T)



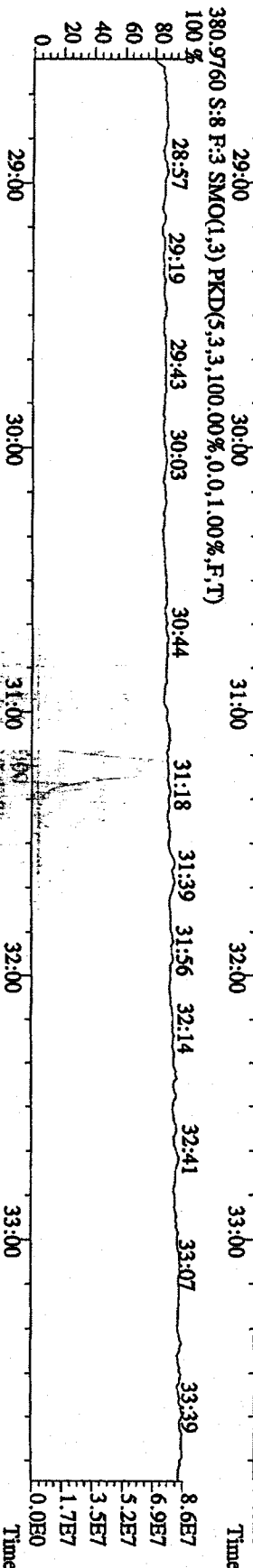
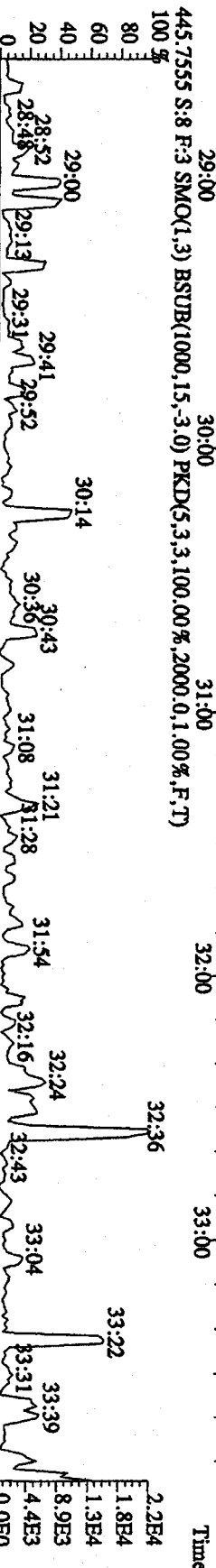
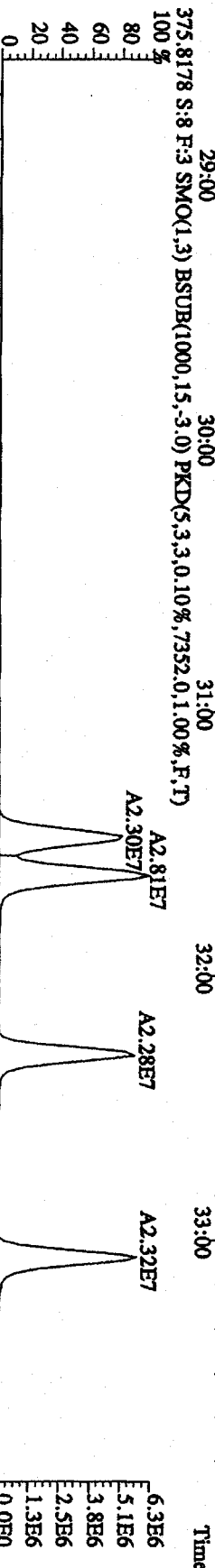
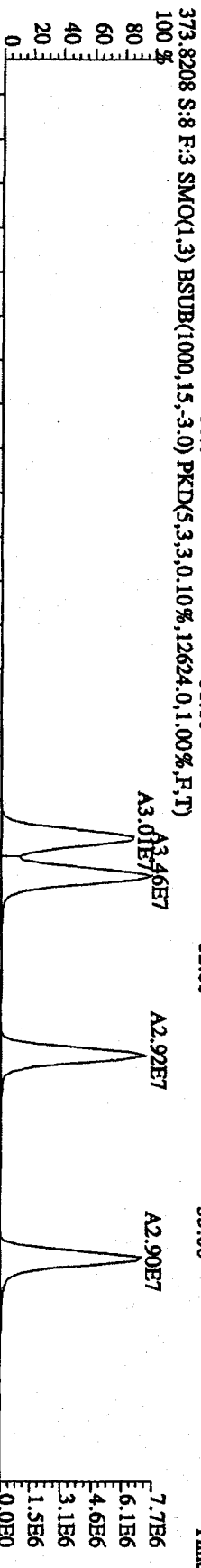
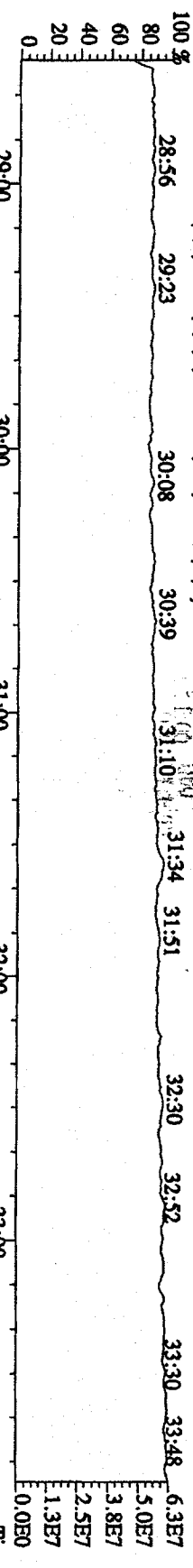
341.8567 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6484,0.1,00%,F,T)



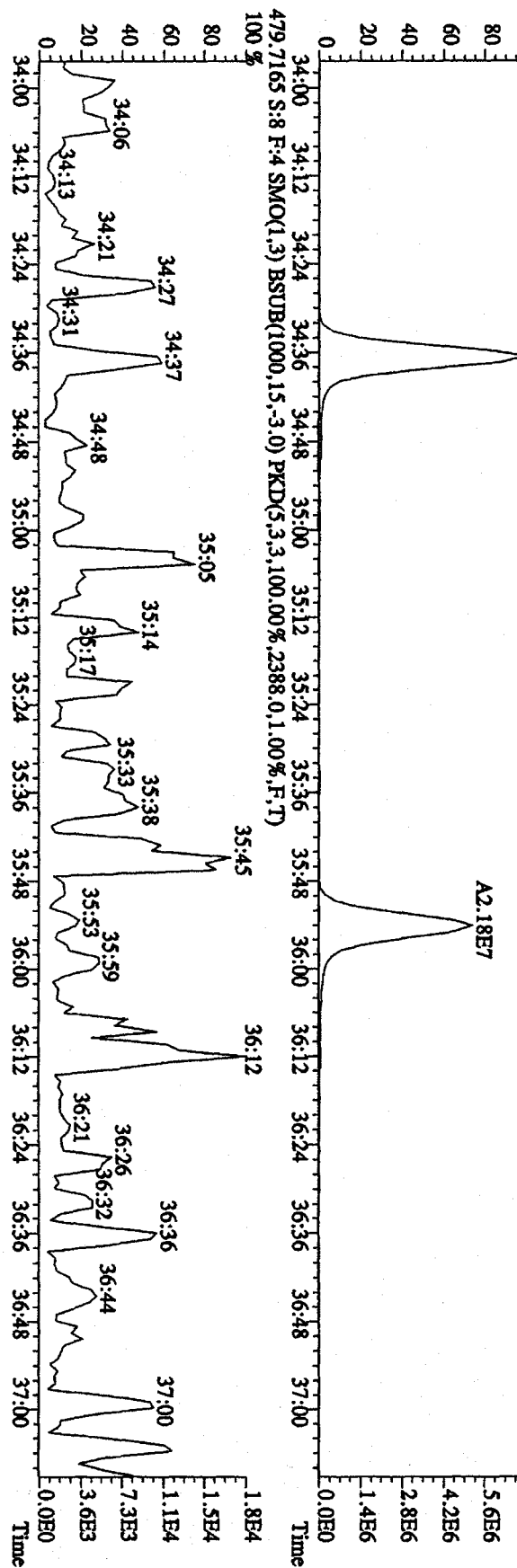
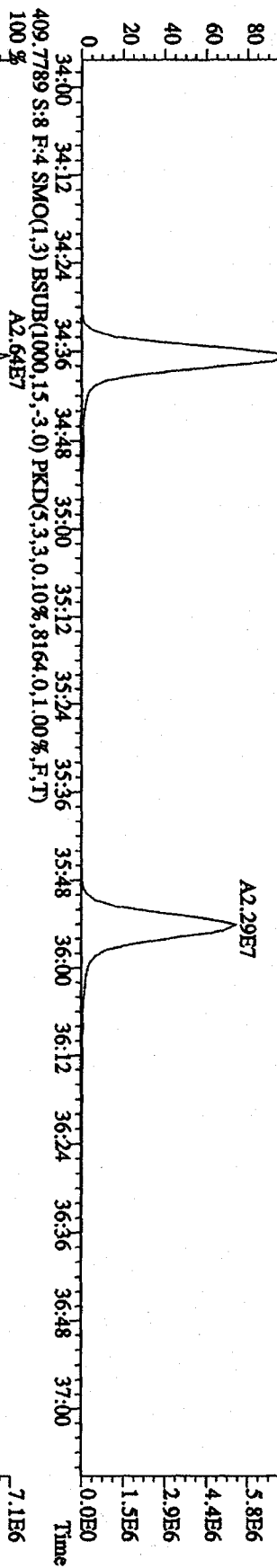
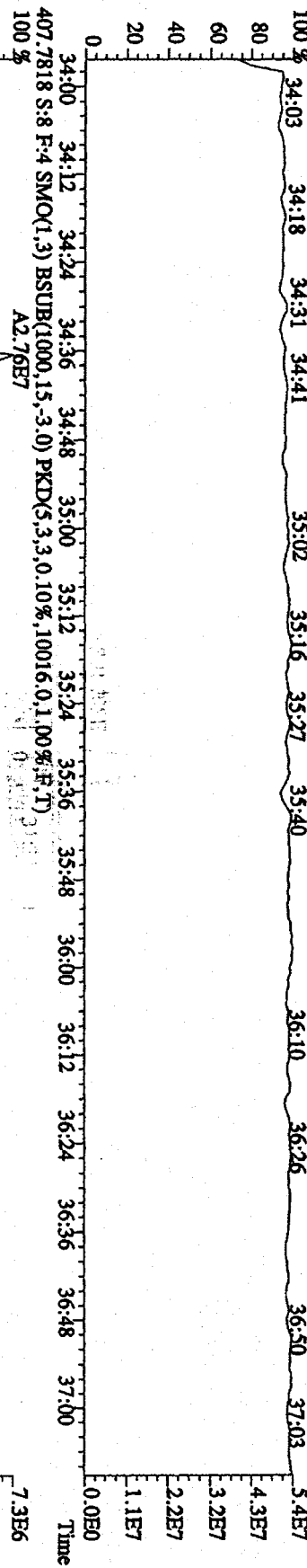
409.7974 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1628,0.1,00%,F,T)



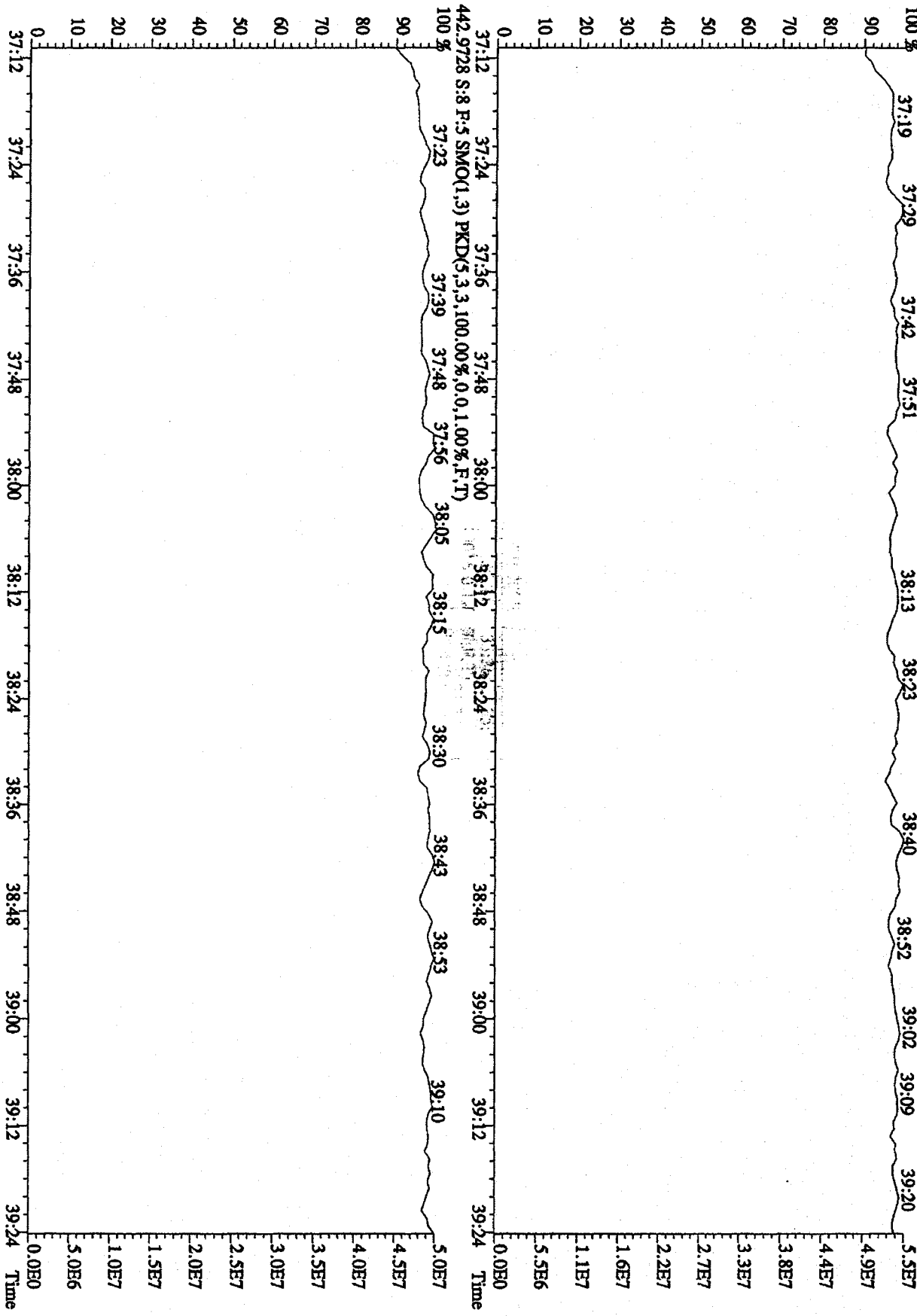
File:31DE09A1D5 #1-362 Acq: 1-JAN-2010 04:19:56 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1231G 2nd Source 09DXKN449 Exp:DI0XIN
 392.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) Exp:DI0XIN



File:31DE09A1D5 #1-227 Acq: 1-JAN-2010 04:19:36 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1231G :2nd Source 09DXN449 Exp:DIOXIN
 430.9728 S:8 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 34:03 34:18 34:31 34:41 35:02 35:16 35:27 35:40 36:10 36:26 36:50 37:03 5.4E7



File:3IDEB9AIDS #1-161 Acq: 1-JAN-2010 04:19:56 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1231G 2nd Source 09DXN449 Exp:DIOXIN
 454.9728 S:8 F:5 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Initial Calibration Checklist Dioxin Methods

ICAL ID (Tetras, 8290, 1613, 23, 0023A, TO9) 0916094DS

Method ID 8290, 1613B, M23, 0023A, TO9 Date Scanned _____

Column ID DB-5 Instrument ID 4DS

STD ID's STO16 & STO16(A-D) STD Solution 9, DXM (36-240)

GC Program DCDD Multiplier Setting 410

Analyzed By AM Date Analyzed 9/16/09

Prepared By KAS Date Prepared 9/17/09

Reviewed By M.G. Date Reviewed 9/21/09

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 R.T 13C-1,2,3,4-TCDD 19:54

13C-1,2,3,7,8,9-HxCDD 33:18

*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: CAL Analyte: 8290 Cal: 82900916099D5

ST0916 :CS-1 09DXN236 ST0916A :CS-2 09DXN237 ST0916B :CS-3 09DXN238
 ST0916C :CS-4 09DXN239 ST0916D :CS-5 09DXN240

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

13C-2,3,7,8-TCDF	1.459	0.063	4.33 %	1.42	1.50	1.38	1.47	1.54
2,3,7,8-TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28
Total TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28

13C-2,3,7,8-TCDD	0.923	0.042	4.50 %	0.89	0.93	0.88	0.93	0.98
2,3,7,8-TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27
Total TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27

37Cl-2,3,7,8-TCDD	2.515	0.152	6.03 %	2.35	2.48	2.47	2.51	2.77
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13C-1,2,3,7,8-PeCDF	1.267	0.085	6.70 %	1.19	1.28	1.18	1.29	1.39
1,2,3,7,8-PeCDF	1.302	0.025	1.90 %	1.26	1.30	1.31	1.32	1.32
2,3,4,7,8-PeCDF	1.250	0.034	2.69 %	1.20	1.23	1.26	1.28	1.28
Total F2 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30
Total F1 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30

13C-1,2,3,7,8-PeCDD	0.772	0.056	7.24 %	0.72	0.78	0.72	0.79	0.85
1,2,3,7,8-PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26
Total PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26

13C-1,2,3,7,8-HxCDD	-	-	- %	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	1.187	0.035	2.92 %	1.16	1.23	1.21	1.14	1.20
1,2,3,4,7,8-HxCDF	1.307	0.031	2.37 %	1.27	1.32	1.27	1.33	1.33
1,2,3,6,7,8-HxCDF	1.412	0.039	2.75 %	1.46	1.39	1.37	1.44	1.40
2,3,4,6,7,8-HxCDF	1.334	0.033	2.51 %	1.36	1.33	1.28	1.36	1.33
1,2,3,7,8,9-HxCDF	1.195	0.052	4.39 %	1.17	1.18	1.13	1.27	1.23
Total HxCDF	1.312	0.032	2.40 %	1.32	1.31	1.26	1.35	1.32

13C-1,2,3,6,7,8-HxCDD	0.747	0.046	6.16 %	0.77	0.78	0.69	0.71	0.79
1,2,3,4,7,8-HxCDD	1.242	0.047	3.75 %	1.19	1.21	1.31	1.26	1.23

1,2,3,6,7,8-HxCDD	1.479	0.113	7.64 %	1.34	1.48	1.59	1.60	1.39
1,2,3,7,8,9-HxCDD	1.473	0.089	6.01 %	1.41	1.41	1.54	1.60	1.40
Total HxCDD	1.398	0.078	5.60 %	1.32	1.37	1.48	1.48	1.34
13C-1,2,3,4,6,7,8-HpCDF	0.913	0.028	3.08 %	0.91	0.93	0.88	0.90	0.95
1,2,3,4,6,7,8-HpCDF	1.595	0.021	1.32 %	1.56	1.59	1.61	1.62	1.59
1,2,3,4,7,8,9-HpCDF	1.331	0.063	4.73 %	1.25	1.29	1.36	1.36	1.40
Total HpCDF	1.463	0.040	2.72 %	1.41	1.44	1.49	1.49	1.50
13C-1,2,3,4,6,7,8-HpCDD	0.714	0.028	3.95 %	0.70	0.73	0.69	0.69	0.76
1,2,3,4,6,7,8-HpCDD	1.307	0.033	2.51 %	1.27	1.27	1.32	1.34	1.33
Total HpCDD	1.307	0.033	2.51 %	1.27	1.27	1.32	1.34	1.33
13C-OCDD	0.606	0.053	8.81 %	0.56	0.59	0.58	0.61	0.70
OCDF	1.509	0.127	8.40 %	1.35	1.42	1.51	1.62	1.65
OCDD	1.194	0.018	1.52 %	1.16	1.20	1.20	1.21	1.20

Run #1 Filename 16SE094D5 S: 2 I: 1
 Acquired: 16-SEP-09 23:31:24 Processed: 17-SEP-09 11:24:44
 Run: CAL Analyte: 8290 Cal: 82900916099D5

Comments:

Sample text: ST0916 :CS-1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	183702200	0.81 y	19:55	-	100.00	n
13C-2,3,7,8-TCDF	260750000	0.80 y	19:19	1.4194	100.00	n
2,3,7,8-TCDF	1642551	0.83 y	19:20	1.2599	0.50	n
Total TCDF	-	- n	-	1.2599	0.50	n
13C-2,3,7,8-TCDD	162604500	0.79 y	20:08	0.8852	100.00	n
2,3,7,8-TCDD	976079	0.79 y	20:10	1.2006	0.50	n
Total TCDD	-	- n	-	1.2006	0.50	n
37Cl-2,3,7,8-TCDD	2161220	1.00 y	20:10	2.3530	0.50	n
13C-1,2,3,7,8-PeCDF	218918000	1.58 y	25:09	1.1917	100.00	n
1,2,3,7,8-PeCDF	6895740	1.64 y	25:11	1.2600	2.50	n
2,3,4,7,8-PeCDF	6555770	1.55 y	26:43	1.1978	2.50	n
Total F2 PeCDF	-	- n	-	1.2289	5.00	n
Total F1 PeCDF	-	- n	-	1.2289	5.00	n
13C-1,2,3,7,8-PeCDD	131538500	1.56 y	27:32	0.7160	100.00	n
1,2,3,7,8-PeCDD	3956610	1.64 y	27:33	1.2032	2.50	n
Total PeCDD	-	- n	-	1.2032	2.50	n
13C-1,2,3,7,8,9-HxCDD	165793200	1.30 y	33:18	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	192374100	0.52 y	32:12	1.1603	100.00	n
1,2,3,4,7,8-HxCDF	6120170	1.26 y	32:13	1.2726	2.50	n
1,2,3,6,7,8-HxCDF	7038300	1.25 y	32:20	1.4635	2.50	n
2,3,4,6,7,8-HxCDF	6550220	1.22 y	32:51	1.3620	2.50	n
1,2,3,7,8,9-HxCDF	5611790	1.23 y	33:29	1.1668	2.50	n
Total HxCDF	-	- n	-	1.3162	10.00	n
13C-1,2,3,6,7,8-HxCDD	127338900	1.30 y	33:03	0.7681	100.00	n
1,2,3,4,7,8-HxCDD	3797960	1.22 y	32:59	1.1930	2.50	n
1,2,3,6,7,8-HxCDD	4275760	1.34 y	33:04	1.3431	2.50	n
1,2,3,7,8,9-HxCDD	4496420	1.21 y	33:19	1.4124	2.50	n
Total HxCDD	-	- n	-	1.3162	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	150532500	0.45 y	34:50	0.9080	100.00	n
1,2,3,4,6,7,8-HpCDF	5884430	1.04 y	34:51	1.5636	2.50	n
1,2,3,4,7,8,9-HpCDF	4696010	1.06 y	35:59	1.2478	2.50	n
Total HpCDF	-	- n	-	1.4057	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	116065600	1.08 y	35:39	0.7001	100.00	n
1,2,3,4,6,7,8-HpCDD	3693920	0.98 y	35:40	1.2730	2.50	n
Total HpCDD	-	- n	-	1.2730	2.50	n
13C-OCDD	185677600	0.89 y	38:11	0.5600	200.00	n
OCDF	6268920	0.90 y	38:18	1.3505	5.00	n

OCDD 5401040 0.91 y 38:12 1.1635 5.00 n

Run #2 Filename 16SE094D5 S: 3 I: 1
 Acquired: 17-SEP-09 00:15:26 Processed: 17-SEP-09 11:24:45
 Run: CAL Analyte: 8290 Cal: 82900916099D5

Comments:

Sample text: ST0916A :CS-2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	174258200	0.80 y	19:55	-	100.00	n
13C-2,3,7,8-TCDF	260563000	0.79 y	19:18	1.4953	100.00	n
2,3,7,8-TCDF	6519840	0.81 y	19:19	1.2511	2.00	n
Total TCDF	-	- n	-	1.2511	2.00	n
13C-2,3,7,8-TCDD	162828900	0.80 y	20:07	0.9344	100.00	n
2,3,7,8-TCDD	3898470	0.82 y	20:08	1.1971	2.00	n
Total TCDD	-	- n	-	1.1971	2.00	n
37Cl-2,3,7,8-TCDD	8655220	1.00 y	20:08	2.4834	2.00	n
13C-1,2,3,7,8-PeCDF	223432700	1.57 y	25:08	1.2822	100.00	n
1,2,3,7,8-PeCDF	29012100	1.56 y	25:10	1.2985	10.00	n
2,3,4,7,8-PeCDF	27588500	1.60 y	26:42	1.2348	10.00	n
Total F2 PeCDF	-	- n	-	1.2666	20.00	n
Total F1 PeCDF	-	- n	-	1.2666	20.00	n
13C-1,2,3,7,8-PeCDD	136333800	1.58 y	27:31	0.7824	100.00	n
1,2,3,7,8-PeCDD	16600790	1.59 y	27:32	1.2177	10.00	n
Total PeCDD	-	- n	-	1.2177	10.00	n
13C-1,2,3,7,8,9-HxCDD	166587400	1.28 y	33:18	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	204181100	0.52 y	32:11	1.2257	100.00	n
1,2,3,4,7,8-HxCDF	27011800	1.24 y	32:12	1.3229	10.00	n
1,2,3,6,7,8-HxCDF	28451800	1.26 y	32:19	1.3935	10.00	n
2,3,4,6,7,8-HxCDF	27223100	1.25 y	32:50	1.3333	10.00	n
1,2,3,7,8,9-HxCDF	24175600	1.25 y	33:28	1.1840	10.00	n
Total HxCDF	-	- n	-	1.3084	40.00	n
13C-1,2,3,6,7,8-HxCDD	130040500	1.14 y	33:02	0.7806	100.00	n
1,2,3,4,7,8-HxCDD	15782320	1.27 y	32:58	1.2136	10.00	n
1,2,3,6,7,8-HxCDD	19231230	1.28 y	33:03	1.4789	10.00	n
1,2,3,7,8,9-HxCDD	18391800	1.25 y	33:19	1.4143	10.00	n
Total HxCDD	-	- n	-	1.3689	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	155140300	0.45 y	34:49	0.9313	100.00	n
1,2,3,4,6,7,8-HpCDF	24649600	1.04 y	34:50	1.5889	10.00	n
1,2,3,4,7,8,9-HpCDF	19953090	1.03 y	35:58	1.2861	10.00	n
Total HpCDF	-	- n	-	1.4375	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	121753700	1.09 y	35:38	0.7309	100.00	n
1,2,3,4,6,7,8-HpCDD	15485060	1.08 y	35:39	1.2718	10.00	n
Total HpCDD	-	- n	-	1.2718	10.00	n
13C-OCDD	196789600	0.88 y	38:11	0.5907	200.00	n
OCDF	27962300	0.93 y	38:18	1.4209	20.00	n
OCDD	23529900	0.91 y	38:11	1.1957	20.00	n

Run #3 Filename 16SE094D5 S: 4 I: 1
 Acquired: 17-SEP-09 00:59:28 Processed: 17-SEP-09 11:24:45
 Run: CAL Analyte: 8290 Cal: 82900916099D5

Comments:

Sample text: ST0916B :CS-3 09DXN238

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	178298000	0.81 y	19:54	-	100.00	n
13C-2,3,7,8-TCDF	245291000	0.80 y	19:18	1.3757	100.00	n
2,3,7,8-TCDF	31358200	0.79 y	19:19	1.2784	10.00	n
Total TCDF	-	- n	-	1.2784	10.00	n
13C-2,3,7,8-TCDD	156857300	0.80 y	20:07	0.8797	100.00	n
2,3,7,8-TCDD	19225190	0.80 y	20:08	1.2256	10.00	n
Total TCDD	-	- n	-	1.2256	10.00	n
37Cl-2,3,7,8-TCDD	44027200	1.00 y	20:08	2.4693	10.00	n
13C-1,2,3,7,8-PeCDF	210512500	1.58 y	25:08	1.1807	100.00	n
1,2,3,7,8-PeCDF	138343700	1.56 y	25:10	1.3144	50.00	n
2,3,4,7,8-PeCDF	133075100	1.57 y	26:42	1.2643	50.00	n
Total F2 PeCDF	-	- n	-	1.2893	100.00	n
Total F1 PeCDF	-	- n	-	1.2893	100.00	n
13C-1,2,3,7,8-PeCDD	128616600	1.55 y	27:31	0.7214	100.00	n
1,2,3,7,8-PeCDD	80288500	1.60 y	27:32	1.2485	50.00	n
Total PeCDD	-	- n	-	1.2485	50.00	n
13C-1,2,3,7,8,9-HxCDD	165760000	1.30 y	33:18	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	200435000	0.52 y	32:11	1.2092	100.00	n
1,2,3,4,7,8-HxCDF	127762400	1.23 y	32:12	1.2749	50.00	n
1,2,3,6,7,8-HxCDF	136984500	1.25 y	32:19	1.3669	50.00	n
2,3,4,6,7,8-HxCDF	128341100	1.24 y	32:50	1.2806	50.00	n
1,2,3,7,8,9-HxCDF	113439900	1.25 y	33:28	1.1319	50.00	n
Total HxCDF	-	- n	-	1.2636	200.00	n
13C-1,2,3,6,7,8-HxCDD	114258700	1.32 y	33:02	0.6893	100.00	n
1,2,3,4,7,8-HxCDD	75014900	1.24 y	32:58	1.3131	50.00	n
1,2,3,6,7,8-HxCDD	90678400	1.27 y	33:03	1.5872	50.00	n
1,2,3,7,8,9-HxCDD	87808300	1.25 y	33:19	1.5370	50.00	n
Total HxCDD	-	- n	-	1.4791	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	145436600	0.45 y	34:49	0.8774	100.00	n
1,2,3,4,6,7,8-HpCDF	117193900	1.04 y	34:50	1.6116	50.00	n
1,2,3,4,7,8,9-HpCDF	98982300	1.05 y	35:58	1.3612	50.00	n
Total HpCDF	-	- n	-	1.4864	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	114712800	1.08 y	35:38	0.6920	100.00	n
1,2,3,4,6,7,8-HpCDD	75877400	1.06 y	35:39	1.3229	50.00	n
Total HpCDD	-	- n	-	1.3229	50.00	n
13C-OCDD	190966700	0.88 y	38:10	0.5760	200.00	n
OCDF	143992700	0.90 y	38:17	1.5080	100.00	n
OCDD	114381400	0.93 y	38:10	1.1979	100.00	n

Run #4 Filename 16SE094D5 S: 5 I: 1
 Acquired: 17-SEP-09 01:43:31 Processed: 17-SEP-09 11:24:46
 Run: CAL Analyte: 8290 Cal: 82900916099D5

Comments:

Sample text: ST0916C :CS-4 09DXN239

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	182174800	0.81 y	19:54	-	100.00	n
13C-2,3,7,8-TCDF	267116000	0.81 y	19:18	1.4663	100.00	n
2,3,7,8-TCDF	138743400	0.80 y	19:20	1.2985	40.00	n
Total TCDF	-	- n	-	1.2985	40.00	n
13C-2,3,7,8-TCDD	170266200	0.80 y	20:07	0.9346	100.00	n
2,3,7,8-TCDD	84868900	0.80 y	20:08	1.2461	40.00	n
Total TCDD	-	- n	-	1.2461	40.00	n
37Cl-2,3,7,8-TCDD	182649000	1.00 y	20:08	2.5065	40.00	n
13C-1,2,3,7,8-PeCDF	235093300	1.57 y	25:08	1.2905	100.00	n
1,2,3,7,8-PeCDF	620154000	1.55 y	25:10	1.3190	200.00	n
2,3,4,7,8-PeCDF	600628000	1.56 y	26:42	1.2774	200.00	n
Total F2 PeCDF	-	- n	-	1.2982	400.00	n
Total F1 PeCDF	-	- n	-	1.2982	400.00	n
13C-1,2,3,7,8-PeCDD	143991200	1.57 y	27:31	0.7904	100.00	n
1,2,3,7,8-PeCDD	367163000	1.59 y	27:33	1.2749	200.00	n
Total PeCDD	-	- n	-	1.2749	200.00	n
13C-1,2,3,7,8,9-HxCDD	189897800	1.28 y	33:18	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	216967700	0.52 y	32:11	1.1425	100.00	n
1,2,3,4,7,8-HxCDF	578760000	1.24 y	32:12	1.3337	200.00	n
1,2,3,6,7,8-HxCDF	624910000	1.25 y	32:19	1.4401	200.00	n
2,3,4,6,7,8-HxCDF	591494000	1.25 y	32:51	1.3631	200.00	n
1,2,3,7,8,9-HxCDF	549123000	1.25 y	33:29	1.2654	200.00	n
Total HxCDF	-	- n	-	1.3506	800.00	n
13C-1,2,3,6,7,8-HxCDD	133983400	1.29 y	33:02	0.7056	100.00	n
1,2,3,4,7,8-HxCDD	337599000	1.24 y	32:59	1.2599	200.00	n
1,2,3,6,7,8-HxCDD	427447000	1.27 y	33:03	1.5951	200.00	n
1,2,3,7,8,9-HxCDD	427792000	1.26 y	33:19	1.5964	200.00	n
Total HxCDD	-	- n	-	1.4838	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	171001500	0.44 y	34:49	0.9005	100.00	n
1,2,3,4,6,7,8-HpCDF	552951000	1.04 y	34:50	1.6168	200.00	n
1,2,3,4,7,8,9-HpCDF	464361000	1.05 y	35:58	1.3578	200.00	n
Total HpCDF	-	- n	-	1.4873	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	131210500	1.07 y	35:38	0.6910	100.00	n
1,2,3,4,6,7,8-HpCDD	352395000	1.06 y	35:39	1.3429	200.00	n
Total HpCDD	-	- n	-	1.3429	200.00	n
13C-OCDD	230404000	0.88 y	38:10	0.6067	200.00	n
OCDF	745269000	0.91 y	38:17	1.6173	400.00	n
OCDD	558899000	0.92 y	38:10	1.2129	400.00	n

Run #5 Filename 16SE094D5 S: 6 I: 1
 Acquired: 17-SEP-09 02:27:33 Processed: 17-SEP-09 11:24:47
 Run: CAL Analyte: 8290 Cal: 82900916099D5

Comments:

Sample text: ST0916D :CS-5 09DXN240

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	176528700	0.81 y	19:54	-	100.00	n
13C-2,3,7,8-TCDF	271318000	0.79 y	19:18	1.5370	100.00	n
2,3,7,8-TCDF	693694000	0.79 y	19:19	1.2784	200.00	n
Total TCDF	-	- n	-	1.2784	200.00	n
13C-2,3,7,8-TCDD	173115700	0.80 y	20:07	0.9807	100.00	n
2,3,7,8-TCDD	438030000	0.81 y	20:08	1.2651	200.00	n
Total TCDD	-	- n	-	1.2651	200.00	n
37Cl-2,3,7,8-TCDD	976226000	1.00 y	20:08	2.7651	200.00	n
13C-1,2,3,7,8-PeCDF	245220600	1.60 y	25:08	1.3891	100.00	n
1,2,3,7,8-PeCDF	3228880000	1.56 y	25:10	1.3167	1000.00	n
2,3,4,7,8-PeCDF	3126610000	1.56 y	26:41	1.2750	1000.00	n
Total F2 PeCDF	-	- n	-	1.2959	2000.00	n
Total F1 PeCDF	-	- n	-	1.2959	2000.00	n
13C-1,2,3,7,8-PeCDD	150373900	1.55 y	27:30	0.8518	100.00	n
1,2,3,7,8-PeCDD	1899013000	1.60 y	27:32	1.2629	1000.00	n
Total PeCDD	-	- n	-	1.2629	1000.00	n
13C-1,2,3,7,8,9-HxCDD	196217100	1.29 y	33:18	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	235191300	0.53 y	32:11	1.1986	100.00	n
1,2,3,4,7,8-HxCDF	3133780000	1.24 y	32:12	1.3324	1000.00	n
1,2,3,6,7,8-HxCDF	3286570000	1.26 y	32:19	1.3974	1000.00	n
2,3,4,6,7,8-HxCDF	3131580000	1.25 y	32:50	1.3315	1000.00	n
1,2,3,7,8,9-HxCDF	2891050000	1.25 y	33:28	1.2292	1000.00	n
Total HxCDF	-	- n	-	1.3226	4000.00	n
13C-1,2,3,6,7,8-HxCDD	155027900	1.29 y	33:02	0.7901	100.00	n
1,2,3,4,7,8-HxCDD	1909775000	1.23 y	32:58	1.2319	1000.00	n
1,2,3,6,7,8-HxCDD	2159480000	1.26 y	33:03	1.3930	1000.00	n
1,2,3,7,8,9-HxCDD	2175108000	1.25 y	33:19	1.4030	1000.00	n
Total HxCDD	-	- n	-	1.3426	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	186419900	0.46 y	34:49	0.9501	100.00	n
1,2,3,4,6,7,8-HpCDF	2970820000	1.04 y	34:50	1.5936	1000.00	n
1,2,3,4,7,8,9-HpCDF	2617160000	1.04 y	35:58	1.4039	1000.00	n
Total HpCDF	-	- n	-	1.4988	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	148168700	1.08 y	35:38	0.7551	100.00	n
1,2,3,4,6,7,8-HpCDD	1964907000	1.05 y	35:39	1.3261	1000.00	n
Total HpCDD	-	- n	-	1.3261	1000.00	n
13C-OCDD	273211000	0.89 y	38:10	0.6962	200.00	n
OCDF	4506160000	0.91 y	38:17	1.6493	2000.00	n
OCDD	3272660000	0.92 y	38:10	1.1979	2000.00	n

Run: CAL Analyte: TO9 Cal: TO90916099D5

ST0916 :CS-1 09DXN236 ST0916A :CS-2 09DXN237 ST0916B :CS-3 09DXN238
 ST0916C :CS-4 09DXN239 ST0916D :CS-5 09DXN240

Name	Mean	S. D.	%RSD	S2	S3	S4	S5	S6
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.459	0.063	4.33 %	1.42	1.50	1.38	1.47	1.54
2,3,7,8-TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28
Total TCDF	1.273	0.018	1.45 %	1.26	1.25	1.28	1.30	1.28
13C-2,3,7,8-TCDD	0.923	0.042	4.50 %	0.89	0.93	0.88	0.93	0.98
2,3,7,8-TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27
Total TCDD	1.227	0.029	2.38 %	1.20	1.20	1.23	1.25	1.27
37Cl-2,3,7,8-TCDD	2.725	0.081	2.99 %	2.66	2.66	2.81	2.68	2.82

13C-1,2,3,7,8-PeCDF	1.267	0.085	6.70 %	1.19	1.28	1.18	1.29	1.39
1,2,3,7,8-PeCDF	1.302	0.025	1.90 %	1.26	1.30	1.31	1.32	1.32
2,3,4,7,8-PeCDF	1.250	0.034	2.69 %	1.20	1.23	1.26	1.28	1.28
Total F2 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30
Total F1 PeCDF	1.276	0.029	2.28 %	1.23	1.27	1.29	1.30	1.30

13C-1,2,3,7,8-PeCDD	0.772	0.056	7.24 %	0.72	0.78	0.72	0.79	0.85
1,2,3,7,8-PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26
Total PeCDD	1.241	0.030	2.44 %	1.20	1.22	1.25	1.27	1.26

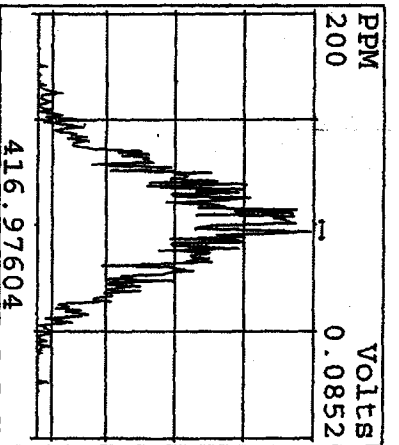
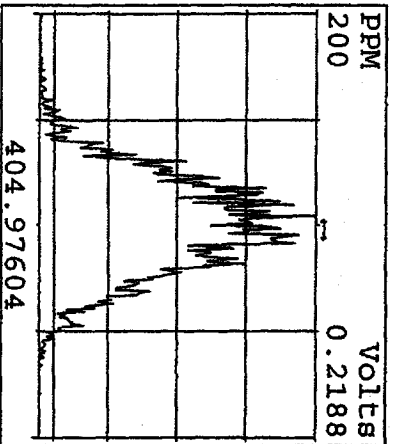
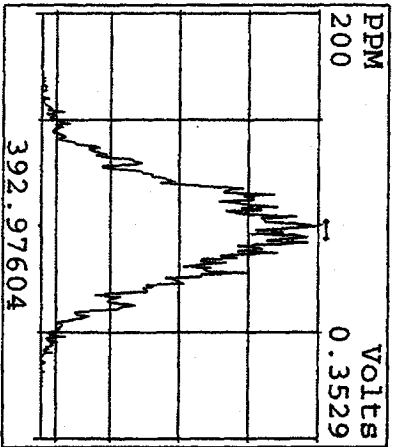
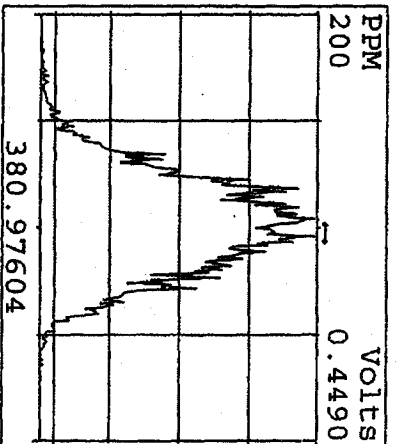
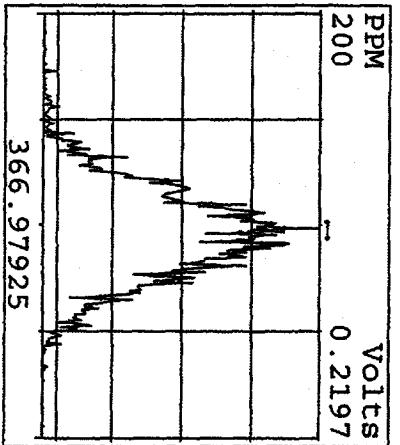
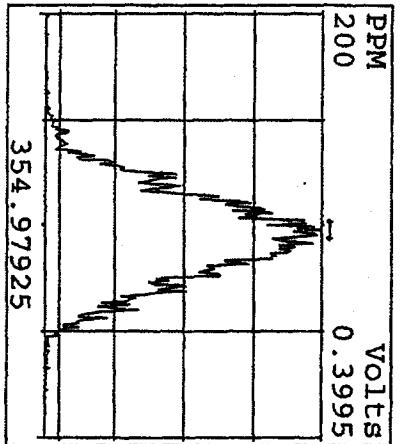
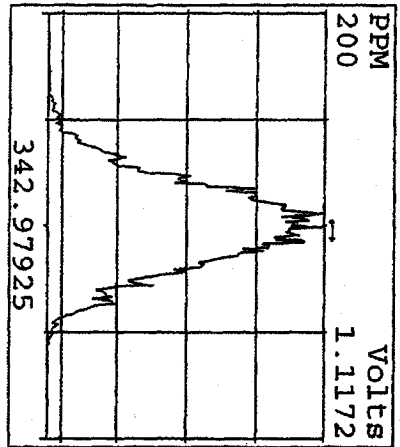
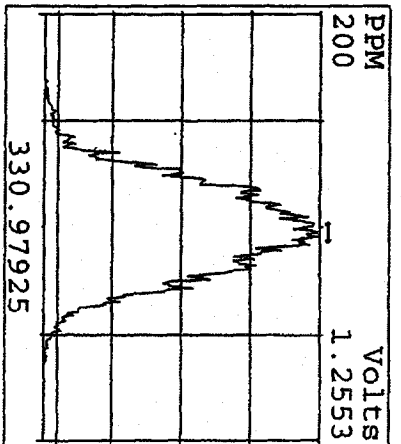
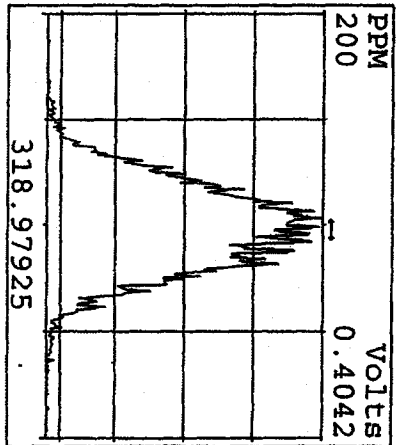
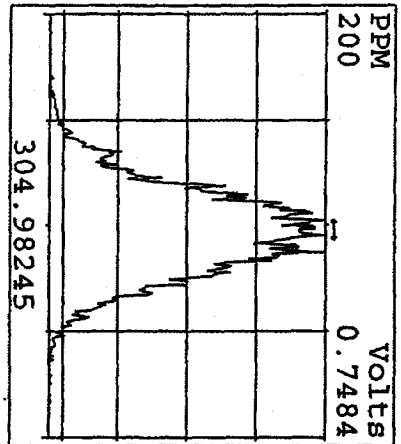
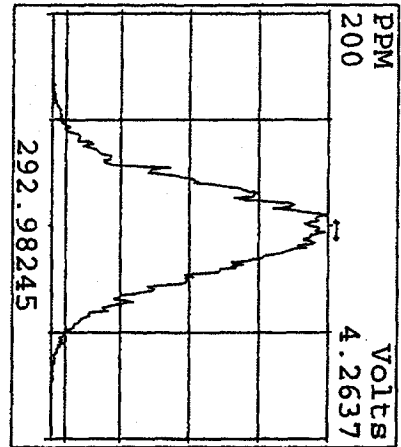
13C-1,2,3,7,8-HxCDD - - %

13C-1,2,3,4,7,8-HxCDF	1.187	0.035	2.92 %	1.16	1.23	1.21	1.14	1.20
1,2,3,4,7,8-HxCDF	1.307	0.031	2.37 %	1.27	1.32	1.27	1.33	1.33
1,2,3,6,7,8-HxCDF	1.412	0.039	2.75 %	1.46	1.39	1.37	1.44	1.40
2,3,4,6,7,8-HxCDF	1.334	0.033	2.51 %	1.36	1.33	1.28	1.36	1.33
1,2,3,7,8,9-HxCDF	1.195	0.052	4.39 %	1.17	1.18	1.13	1.27	1.23
Total HxCDF	1.312	0.032	2.40 %	1.32	1.31	1.26	1.35	1.32

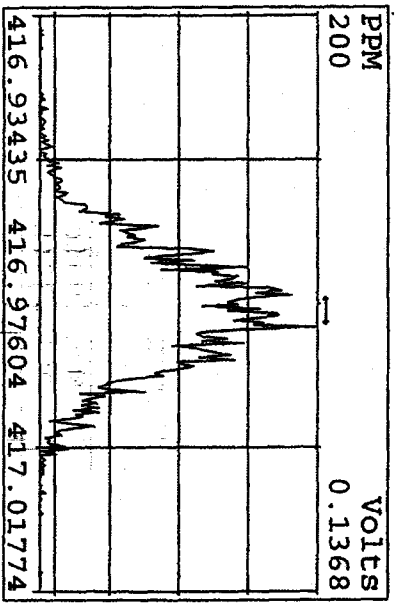
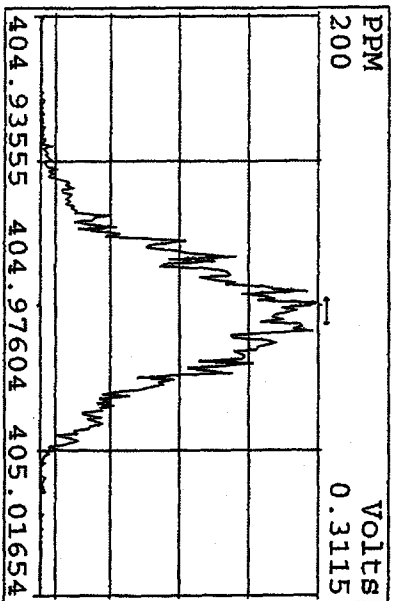
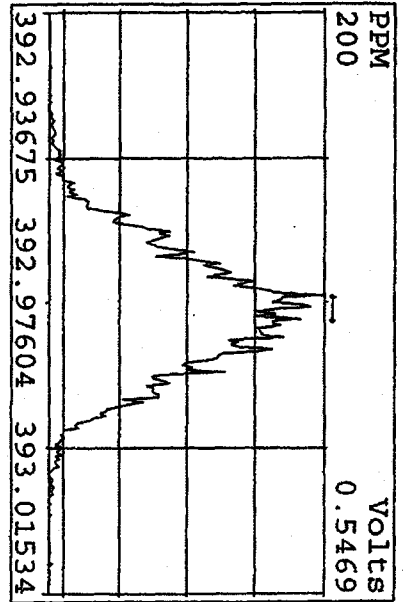
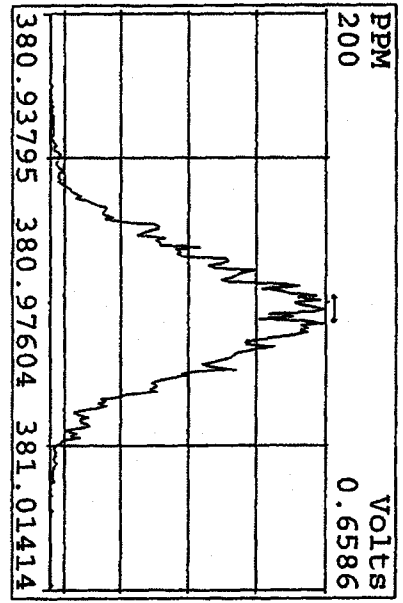
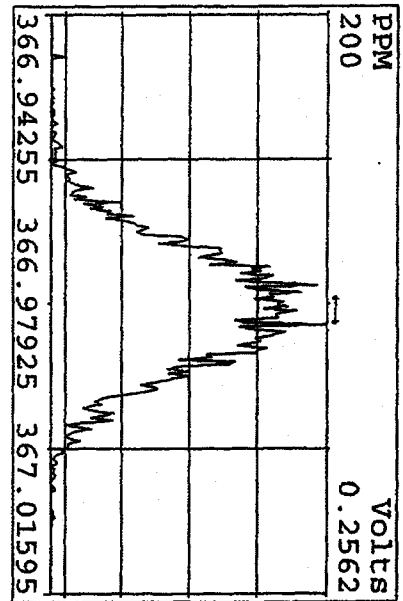
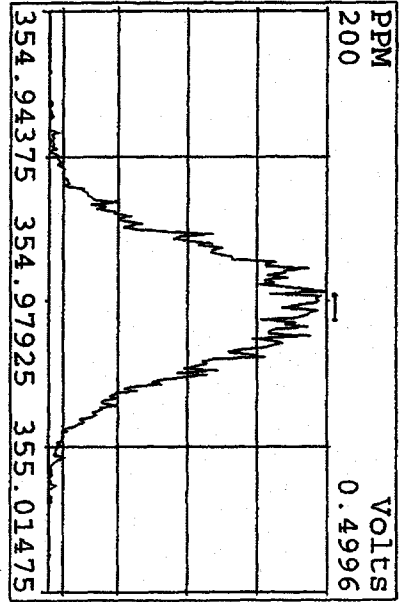
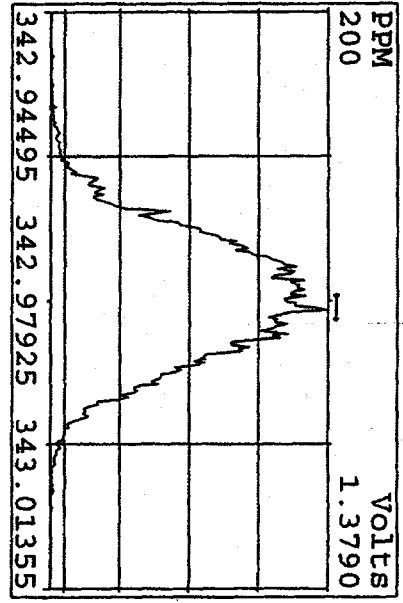
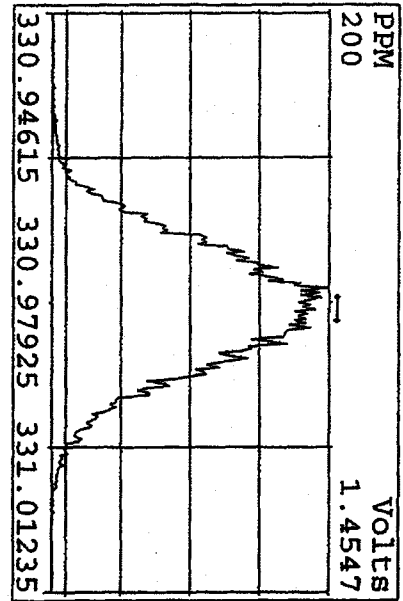
13C-1,2,3,6,7,8-HxCDD	0.747	0.046	6.16 %	0.77	0.78	0.69	0.71	0.79
1,2,3,4,7,8-HxCDD	1.242	0.047	3.75 %	1.19	1.21	1.31	1.26	1.23

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
16SE094D5	1	CP0916	DB-5 CPSM 3732-02				1.00000	
16SE094D5	2	ST0916	CS-1 09DXN236				1.00000	
16SE094D5	3	ST0916A	CS-2 09DXN237				1.00000	
16SE094D5	4	ST0916B	CS-3 09DXN238				1.00000	
16SE094D5	5	ST0916C	CS-4 09DXN239				1.00000	
16SE094D5	6	ST0916D	CS-5 09DXN240				1.00000	
16SE094D5	7	SB0916	Solvent Blank C-14				1.00000	
16SE094D5	8	ST0916E	2nd Source 3249-38				1.00000	
16SE094D5	9						1.00000	
16SE094D5	10						1.00000	
16SE094D5	11						1.00000	
16SE094D5	12						1.00000	
16SE094D5	13						1.00000	
16SE094D5	14						1.00000	
16SE094D5	15		AM 09-16-09				1.00000	
16SE094D5	16						1.00000	

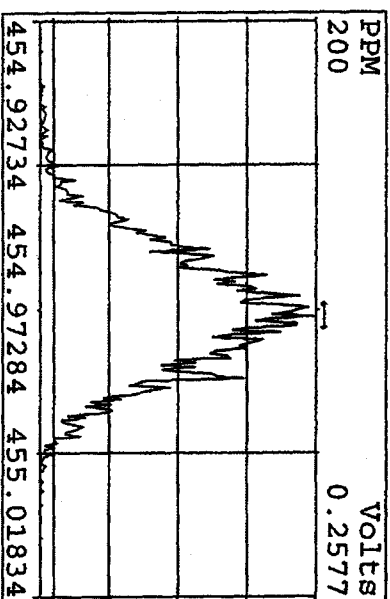
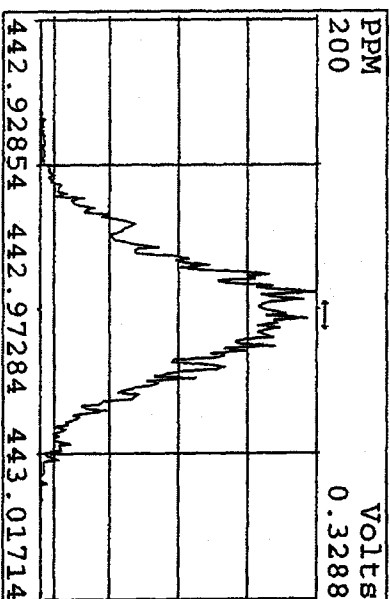
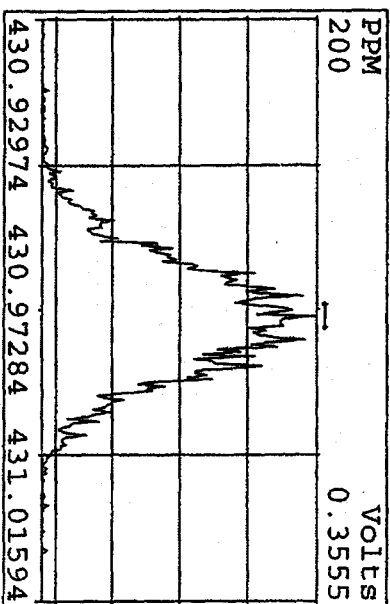
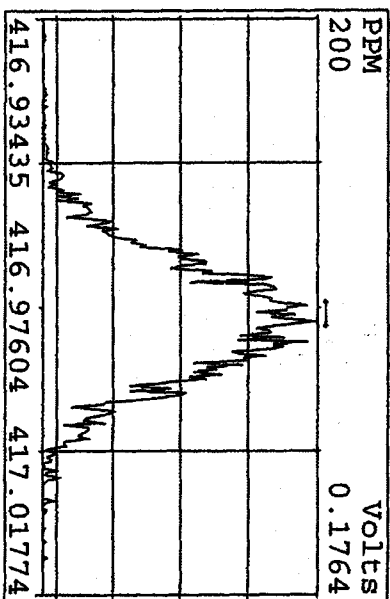
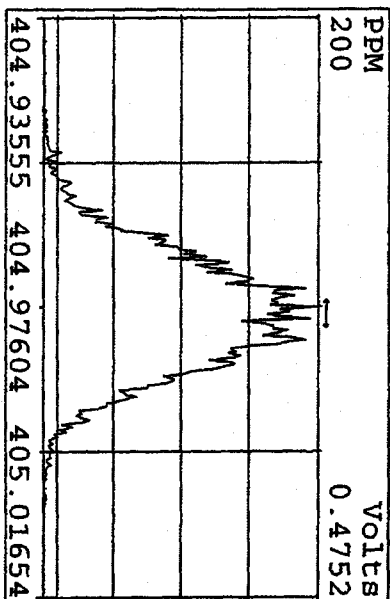
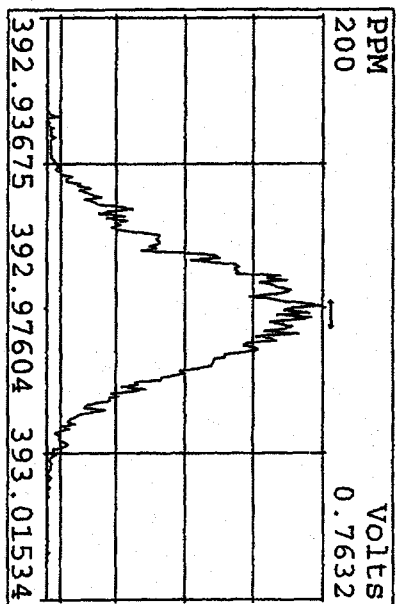
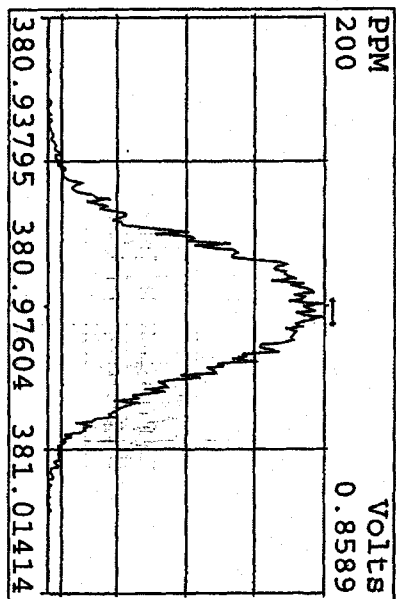
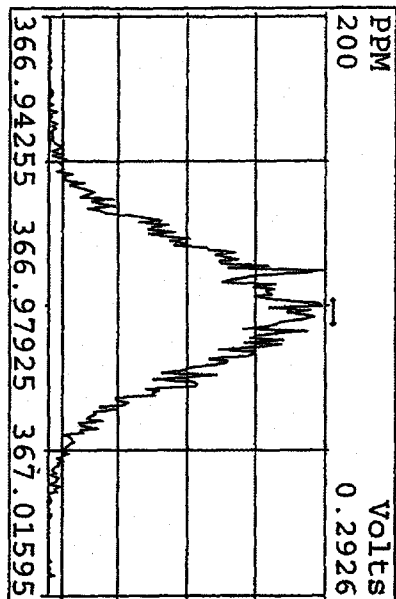
Peak Locate Examination: 16-SEP-2009:21:57 File:16SE094D5
Experiment:DIOXIN Function:1 Reference:PK



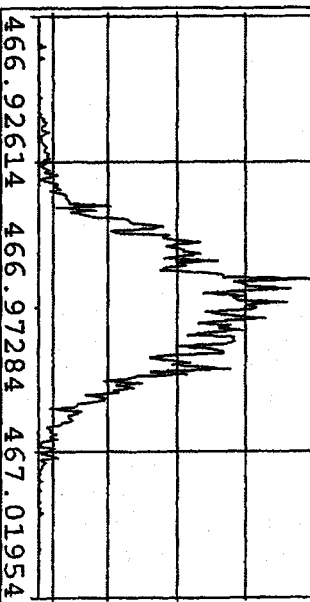
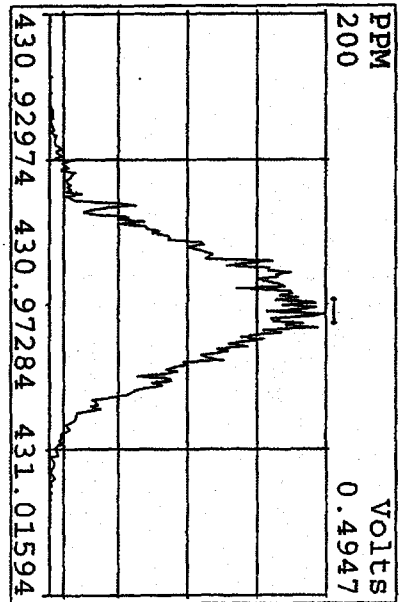
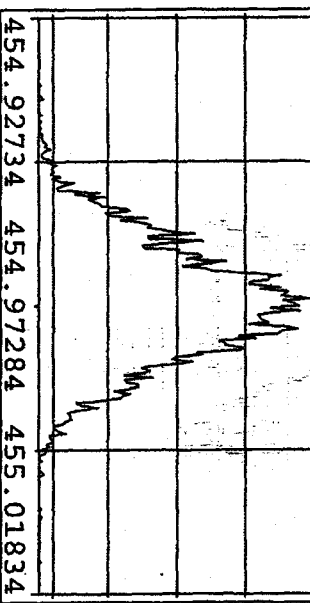
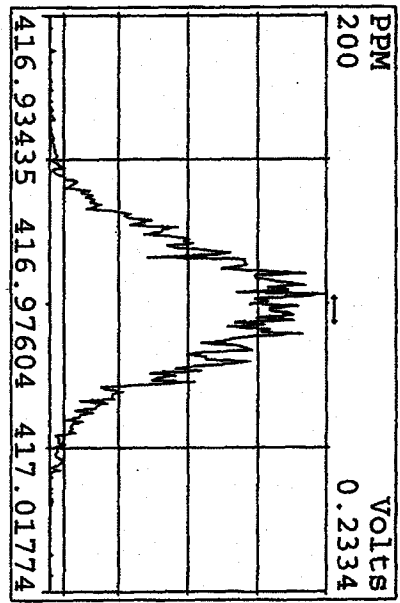
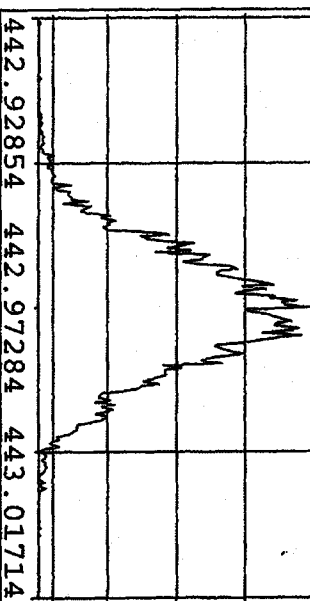
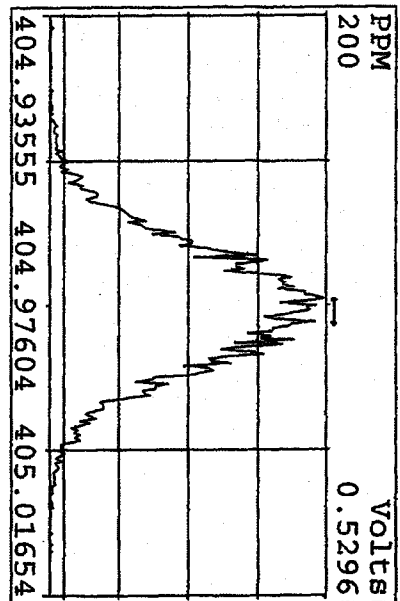
Peak Locate Examination: 16-SEP-2009 21:58 File: 16SE094D5
 Experiment: DIOXIN Function: 2 Reference: PFK



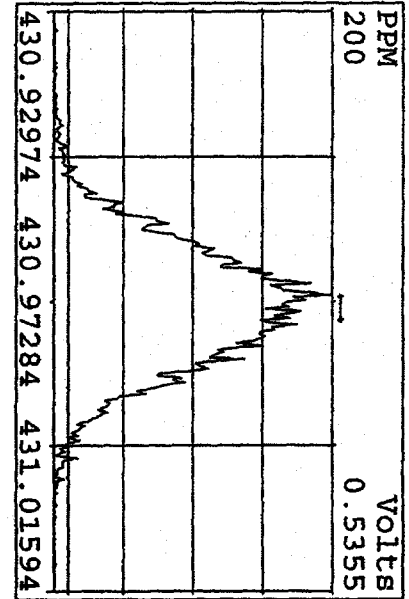
Peak Locate Examination: 16-SEP-2009: 21:59 File: 16SSE094D5
Experiment: DIOXIN Function: 3 Reference: PFK



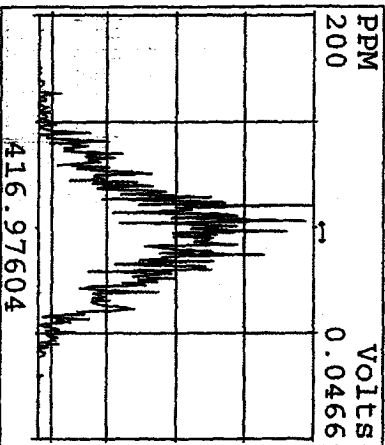
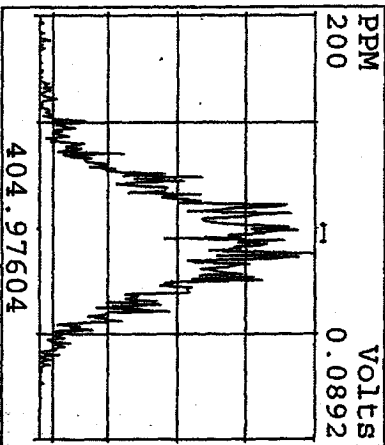
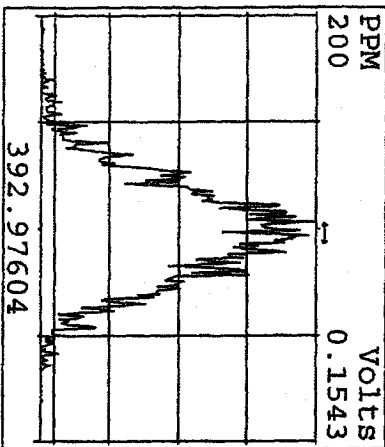
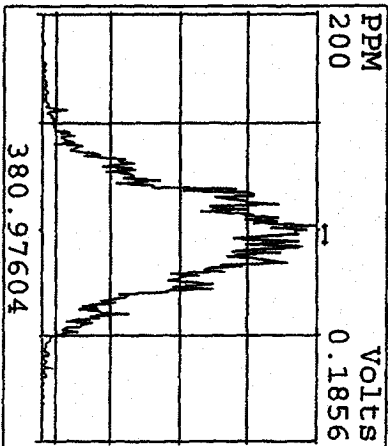
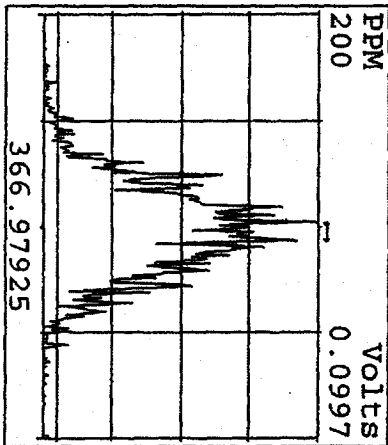
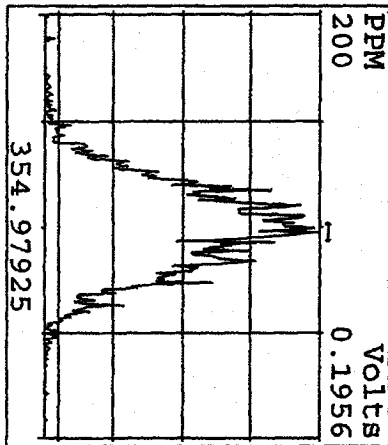
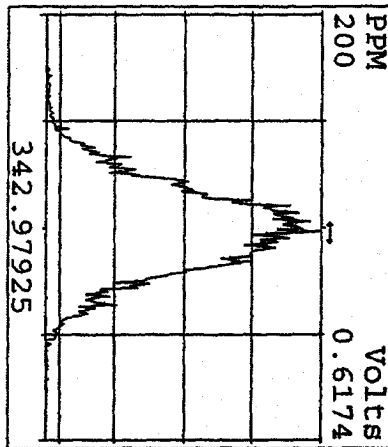
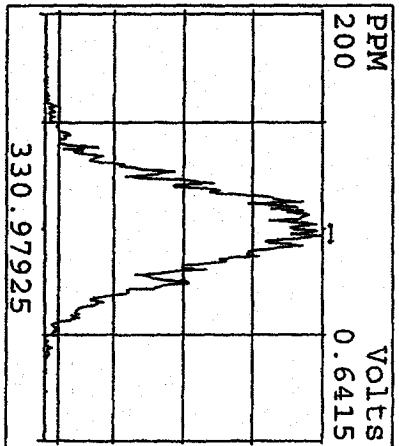
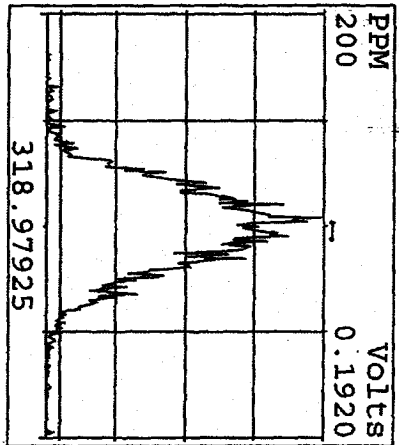
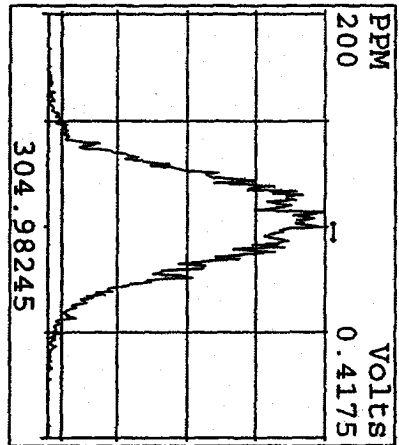
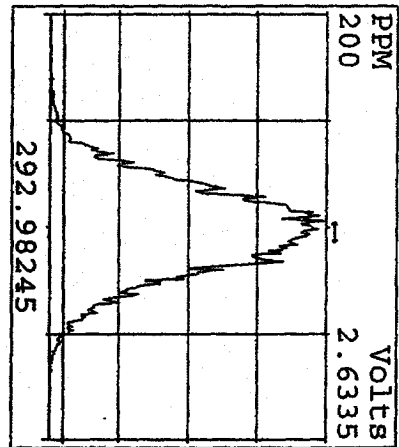
Peak Locate Examination: 16-SEP-2009: 21:59 File: 16SE094D5
 Experiment: DIOXIN Function: 4 Reference: PFK



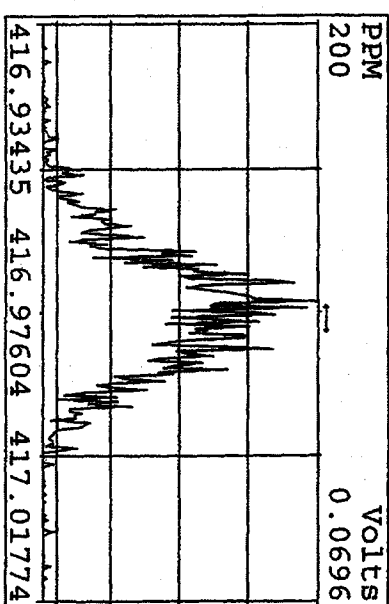
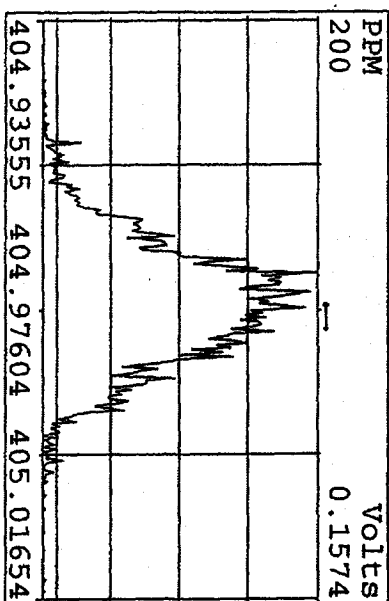
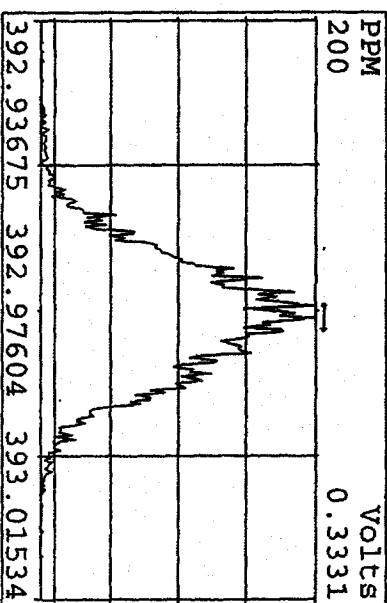
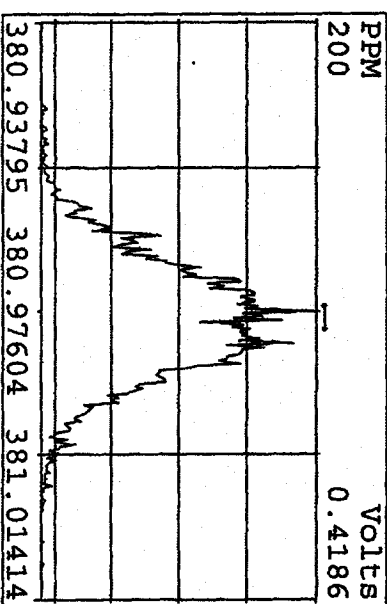
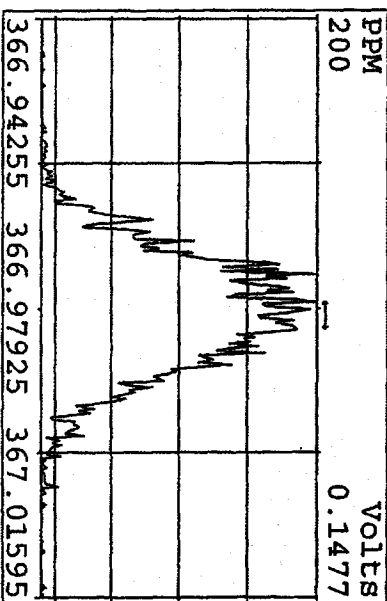
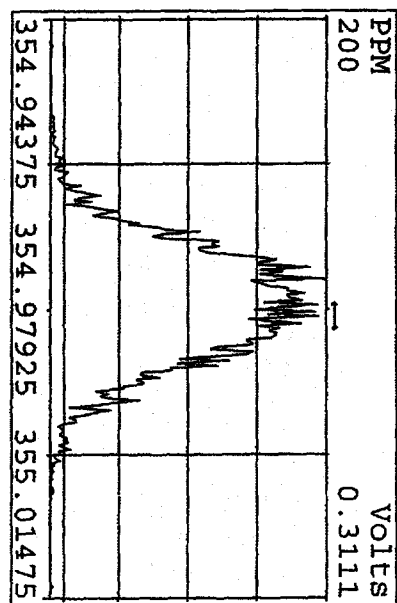
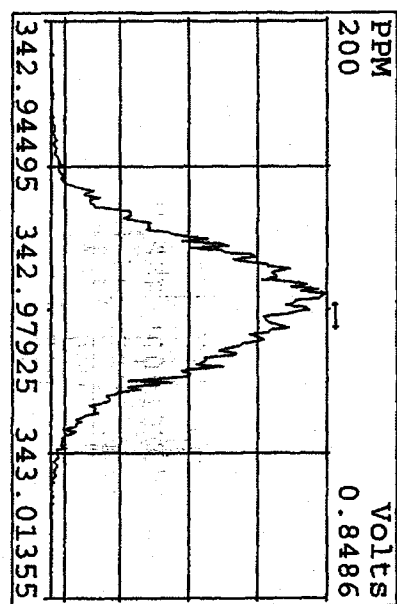
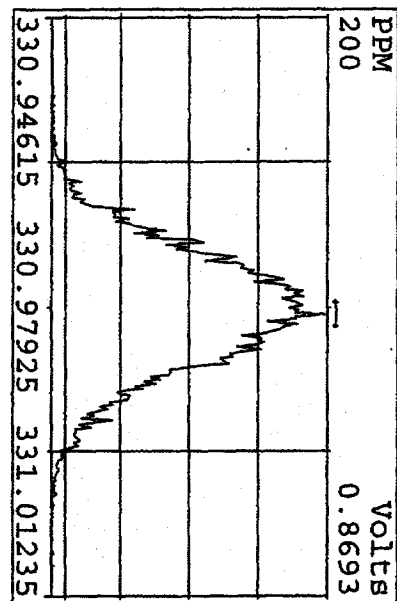
Peak Locate Examination: 16-SEP-2009: 22:00 File: 16SSE094D5
 Experiment: DIOXIN Function: 5 Reference: PFK



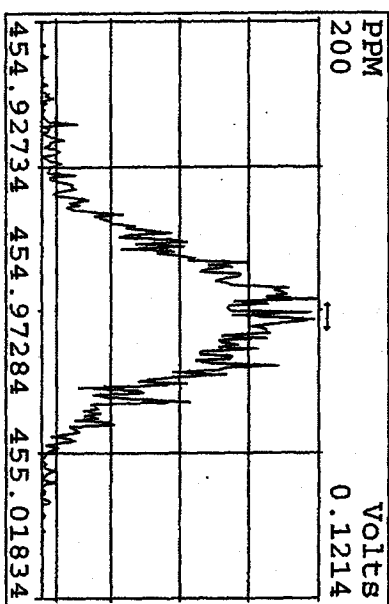
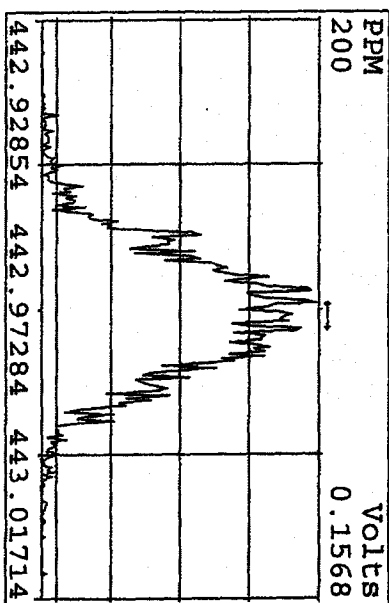
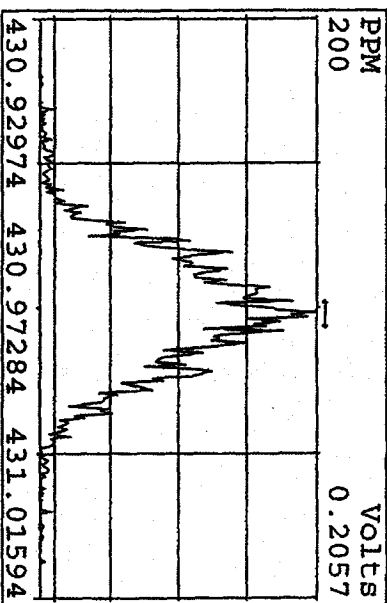
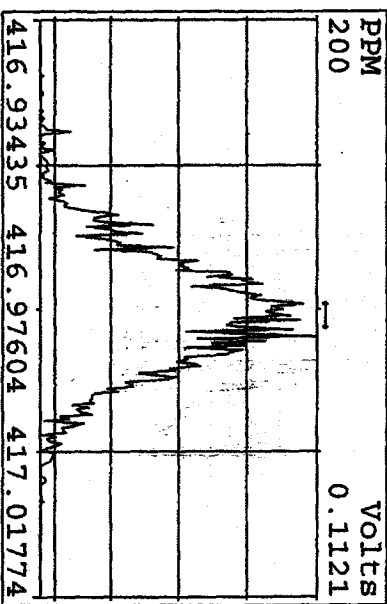
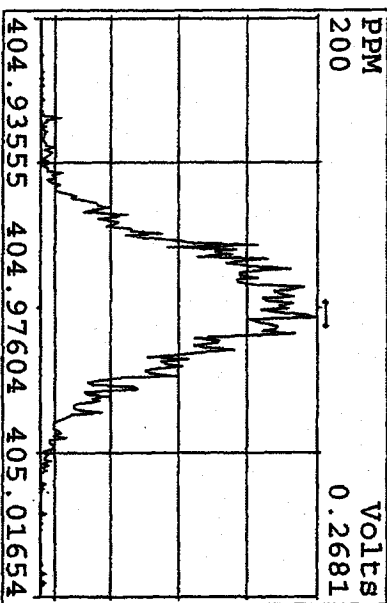
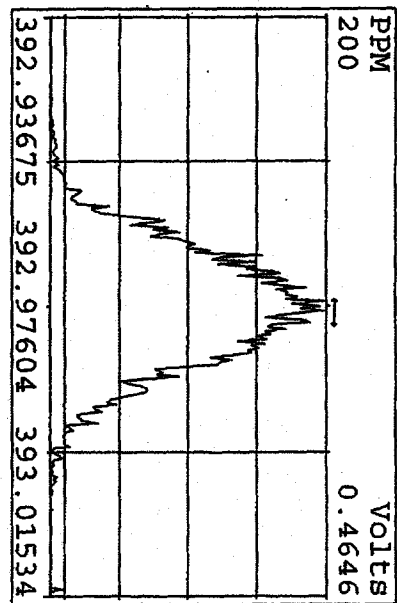
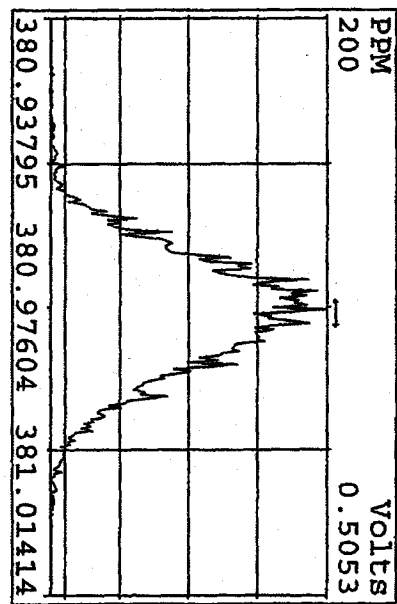
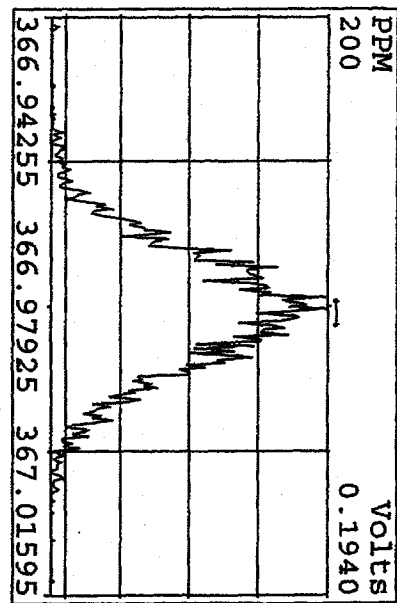
Peak Locate Examination:17-SEP-2009:07:43 File:16SE094D5ENDRES
Experiment:DIOXIN Function:1 Reference:PFK



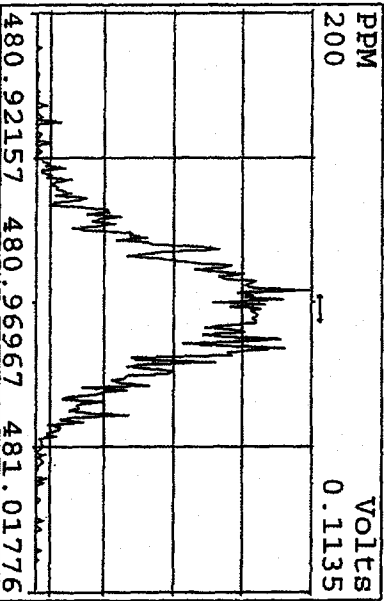
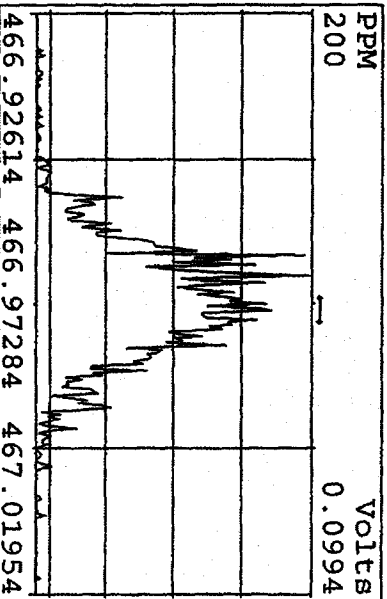
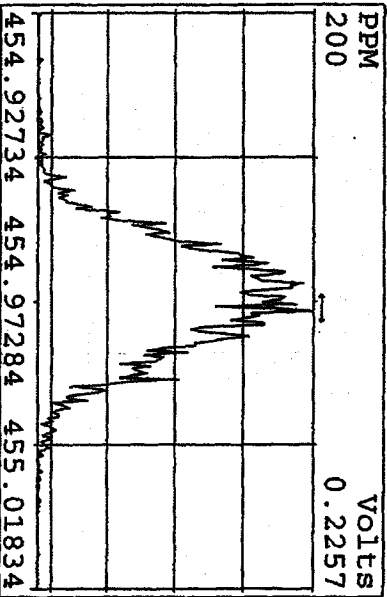
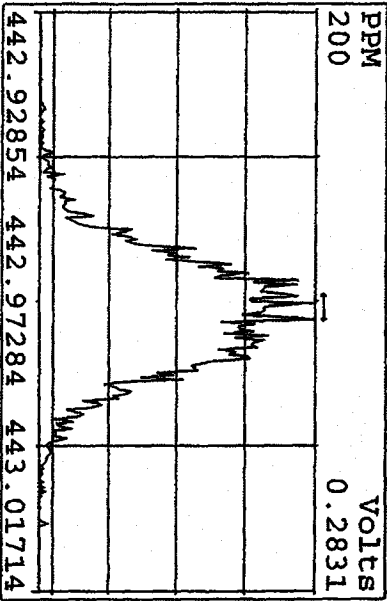
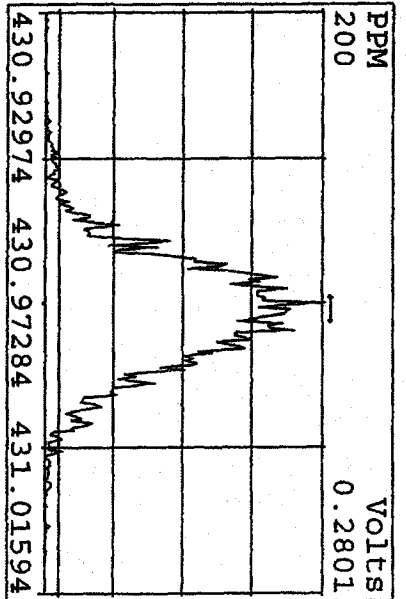
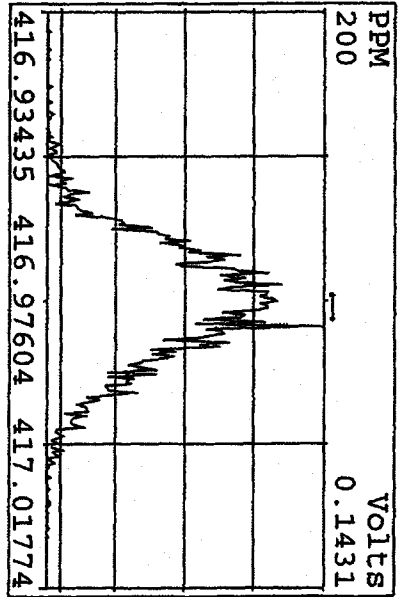
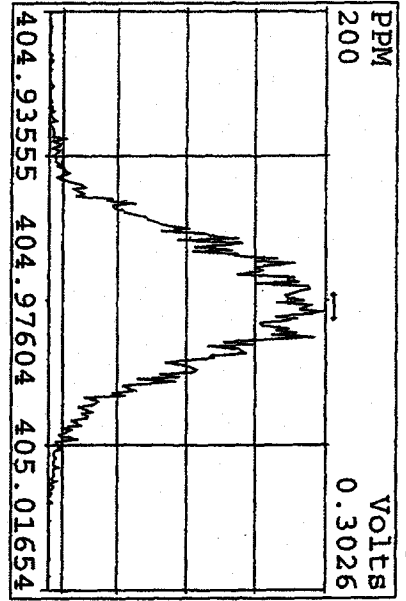
Peak Locate Examination: 17-SEP-2009:07:44 File: 16SE094D5ENDRES
 Experiment: DIOXIN Function: 2 Reference: PFK



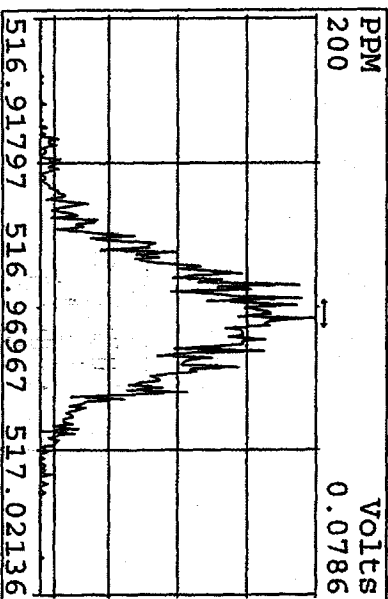
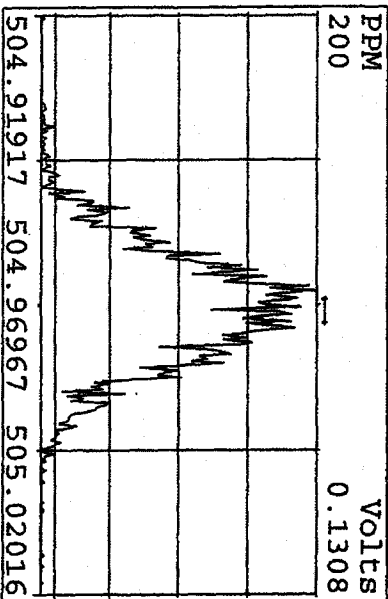
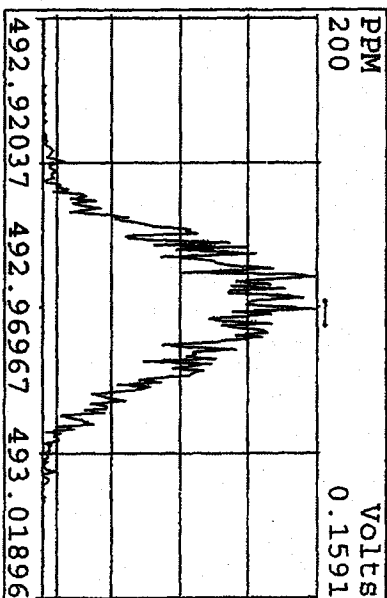
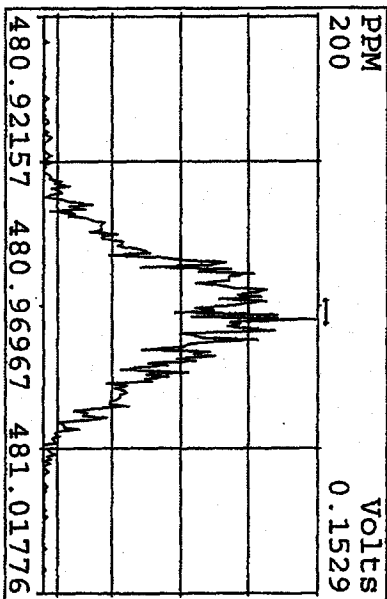
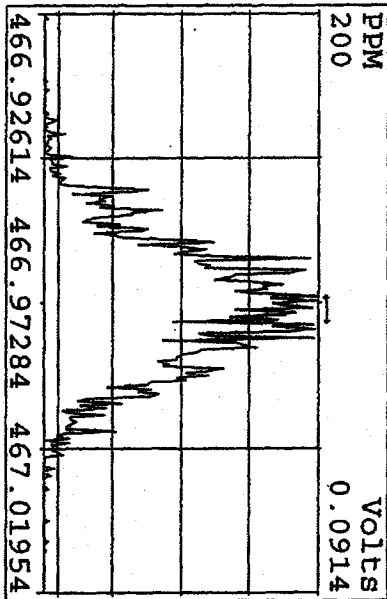
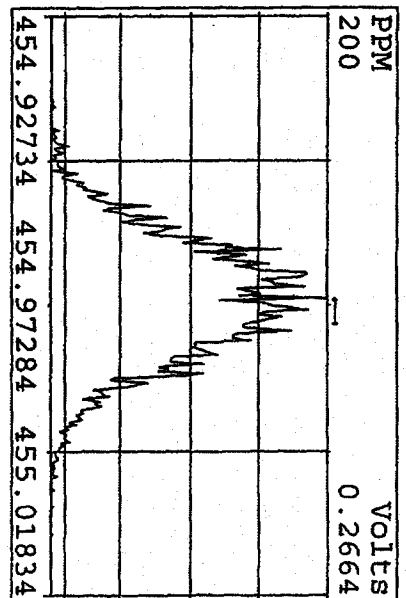
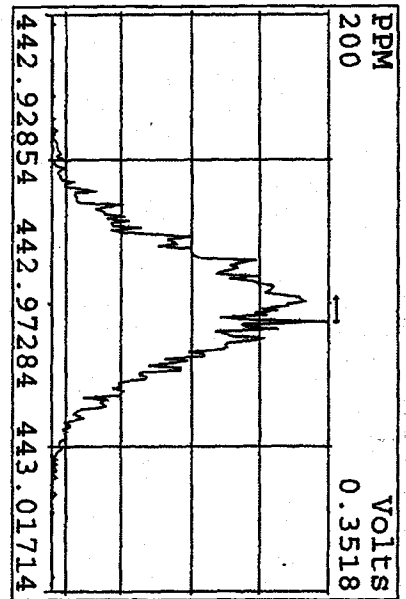
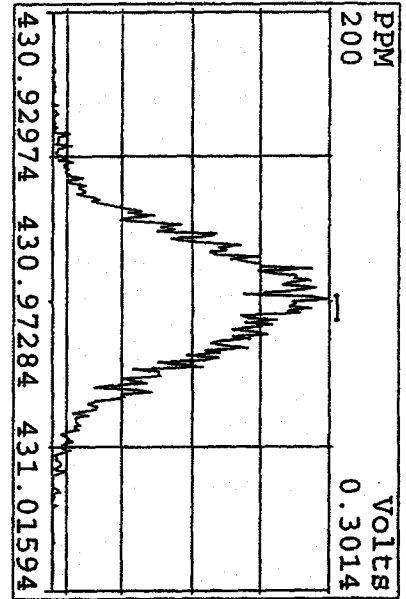
Peak Locate Examination: 17-SEP-2009: 07:44 File: 16SE094D5ENDRRES
 Experiment: DIOXIN Function: 3 Reference: PFK



Peak Locate Examination:17-SEP-2009:07:45 File:16SE094D5ENDRES
Experiment:DIOXIN Function:4 Reference:PFK



Peak Locate Examination:17-SEP-2009:07:45 File:16SE094D5ENDRRES
 Experiment:DIOXIN Function:5 Reference:PFK

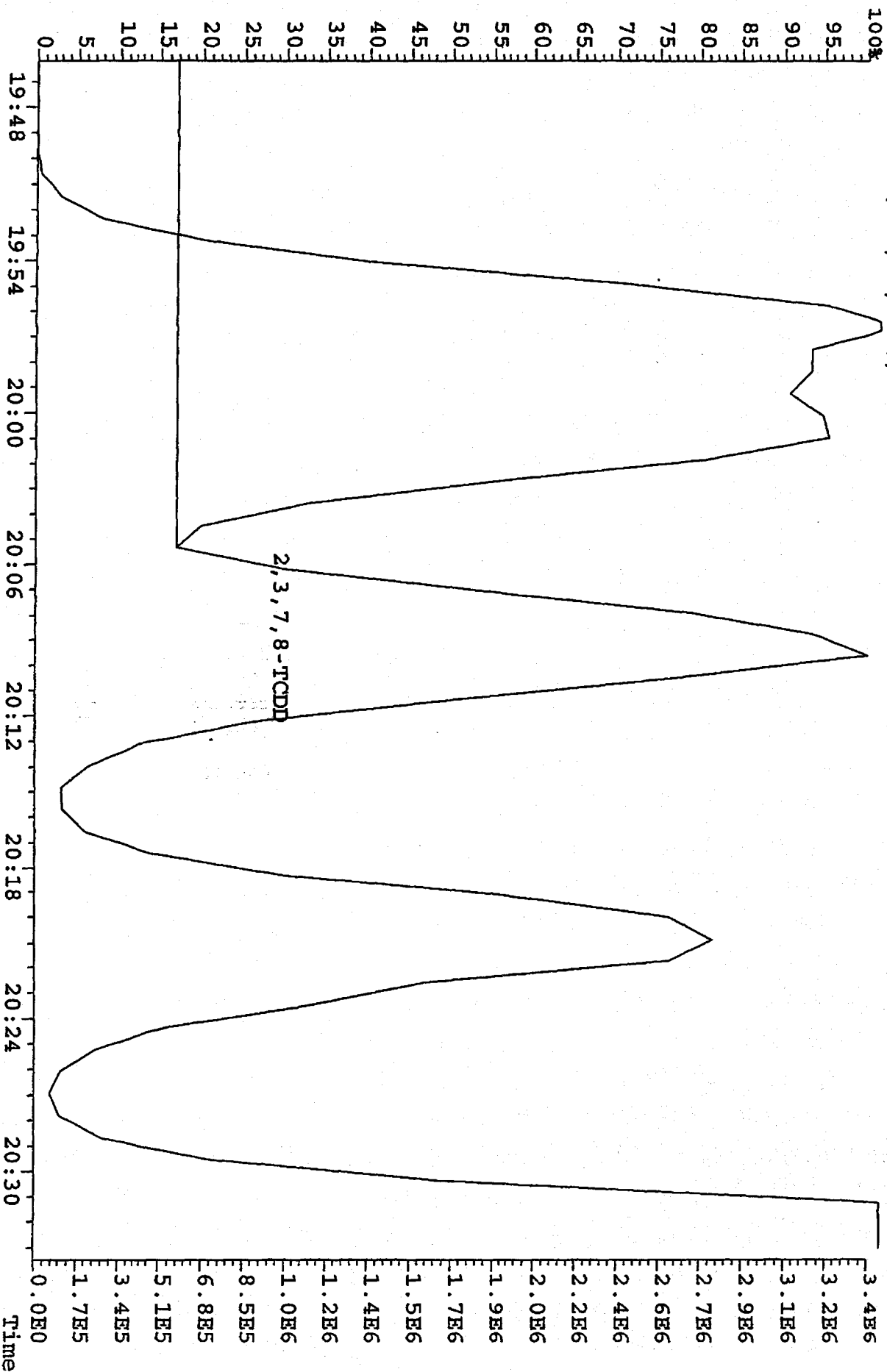


Run text: ST0919A Sample text: ST0919A :2nd Source 09DXN300
 Run #7 Filename: 19SE094D5 S: 4 I: 1 Results: 19SE094D51613
 Acquired: 19-SEP-09 16:57:51 Processed: 19-SEP-09 17:57:08
 Run: 19SE094D5 Analyte: 1613 Cal: 16130916094D5
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

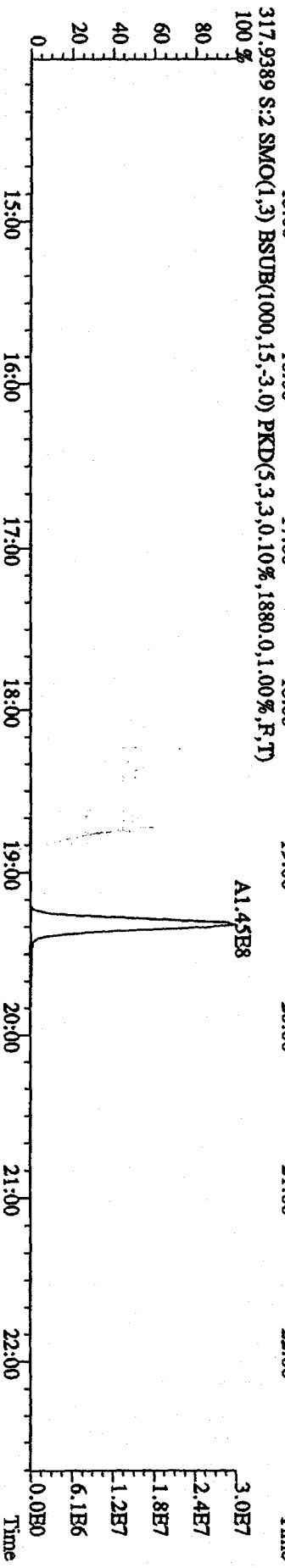
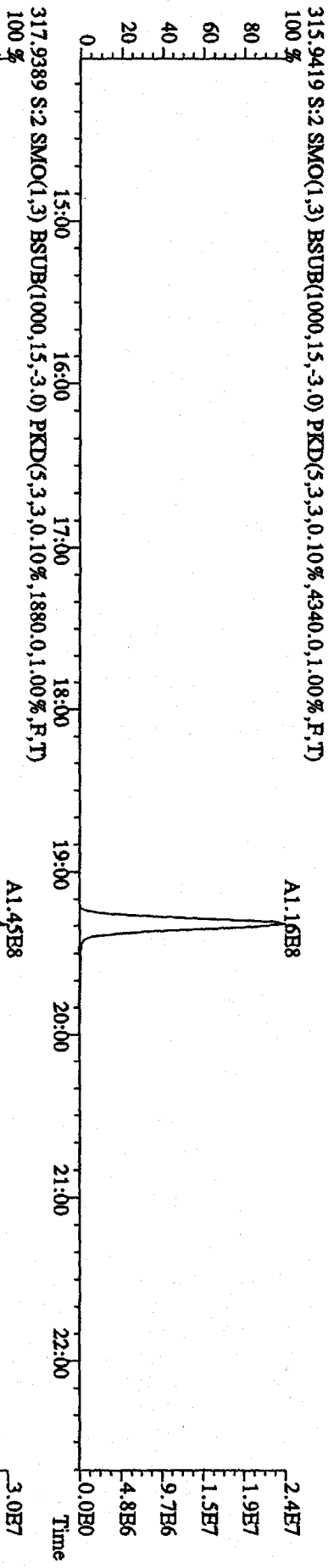
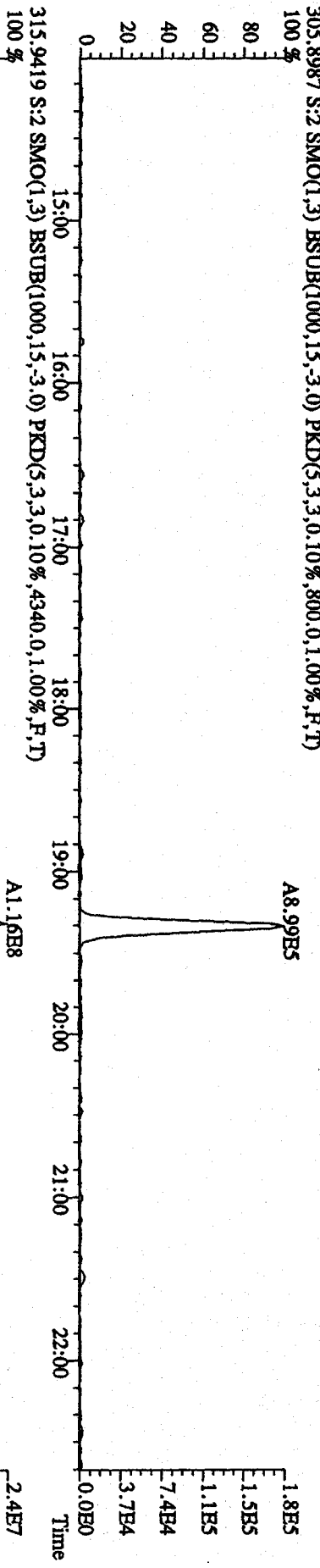
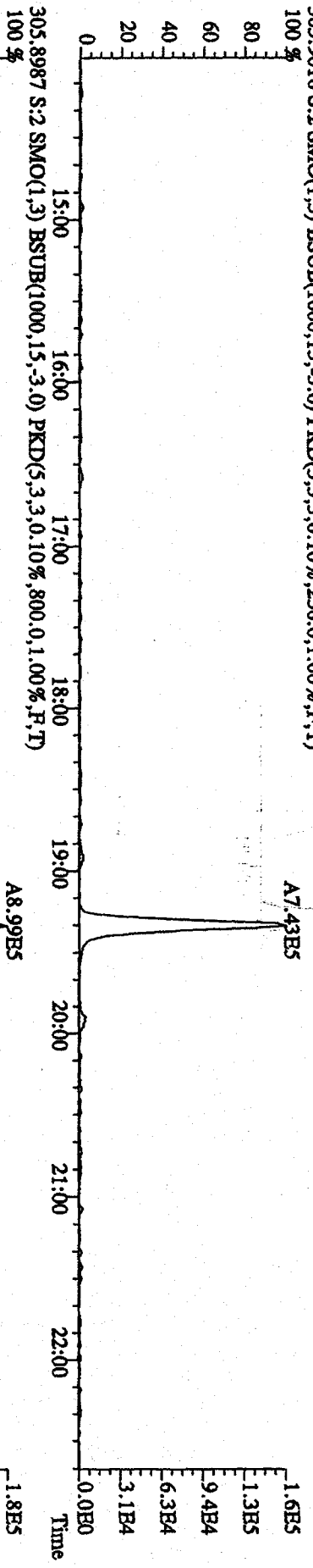
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	146616900	0.80 y	19:55	-	81.91	-	-	n
13C-2,3,7,8-TCDF	194233400	0.79 y	19:19	1.46	1816.33	0.26	90.8	n
2,3,7,8-TCDF	20770360	0.81 y	19:20	1.27	167.97	0.10	-	n
Total TCDF	21047098	0.69 y	18:55	1.27	170.21	0.10	-	n
13C-2,3,7,8-TCDD	134020300	0.78 y	20:08	0.92	1980.85	0.78	99.0	n
2,3,7,8-TCDD	14826950	0.78 y	20:10	1.23	180.34	0.05	-	n
Total TCDD	14826950	0.78 y	20:10	1.23	180.34	0.05	-	n
37Cl-2,3,7,8-TCDD	36494200	1.00 y	20:09	2.52	197.90	0.01	99.0	n
13C-1,2,3,7,8-PeCDF	142546000	1.57 y	25:11	1.27	1534.90	1.96	76.7	n
1,2,3,7,8-PeCDF	42648200	1.55 y	25:12	1.30	459.69	0.74	-	n
13C-2,3,4,7,8-PeCDF	173111000	1.57 y	26:43	1.46	1612.13	1.69	80.6	n
2,3,4,7,8-PeCDF	41322700	1.54 y	26:44	1.08	441.89	0.77	-	n
Total F2 PeCDF	85215202	1.94 n	23:39	1.18	914.91	0.75	-	n
Total F1 PeCDF	118841	0.52 n	14:07	1.18	1.27	0.05	-	n
13C-1,2,3,7,8-PeCDD	97624100	1.53 y	27:34	0.77	1724.09	0.31	86.2	n
1,2,3,7,8-PeCDD	25447900	1.54 y	27:35	1.24	419.96	0.67	-	n
Total PeCDD	25447900	1.54 y	27:35	1.24	419.96	0.67	-	n
13C-1,2,3,7,8,9-HxCDD	119864700	1.27 y	33:20	-	67.78	-	-	n
13C-1,2,3,4,7,8-HxCDF	133202300	0.53 y	32:13	1.19	1871.98	0.67	93.6	n
1,2,3,4,7,8-HxCDF	37432500	1.20 y	32:14	1.31	429.92	0.34	-	n
13C-1,2,3,6,7,8-HxCDF	144298100	0.52 y	32:20	1.25	1928.69	0.63	96.4	n
1,2,3,6,7,8-HxCDF	41930600	1.21 y	32:20	1.34	432.81	0.33	-	n
13C-2,3,4,6,7,8-HxCDF	118577200	0.52 y	32:52	1.08	1826.66	0.73	91.3	n
2,3,4,6,7,8-HxCDF	36974100	1.23 y	32:53	1.46	426.61	0.33	-	n
13C-1,2,3,7,8,9-HxCDF	106957200	0.53 y	33:30	0.98	1813.20	0.80	90.7	n
1,2,3,7,8,9-HxCDF	32497600	1.20 y	33:31	1.44	421.65	0.38	-	n
Total HxCDF	148889993	1.67 n	31:12	1.38	1711.62	0.34	-	n
13C-1,2,3,4,7,8-HxCDD	114866600	1.28 y	33:00	0.87	2206.50	0.45	110.3	n
1,2,3,4,7,8-HxCDD	24882900	1.21 y	33:01	1.07	405.56	0.43	-	n
13C-1,2,3,6,7,8-HxCDD	92123700	1.26 y	33:04	0.75	2058.50	0.52	102.9	n
1,2,3,6,7,8-HxCDD	30708900	1.25 y	33:05	1.48	450.63	0.39	-	n
1,2,3,7,8,9-HxCDD	29087500	1.24 y	33:21	1.36	413.86	0.37	-	n
Total HxCDD	84679300	1.21 y	33:01	1.29	1270.05	0.39	-	n
13C-1,2,3,4,6,7,8-HpCDF	99470000	0.44 y	34:52	0.91	1816.99	4.69	90.8	n
1,2,3,4,6,7,8-HpCDF	35677200	1.02 y	34:52	1.59	449.77	1.31	-	n
13C-1,2,3,4,7,8,9-HpCDF	100266300	0.46 y	36:00	0.87	1925.30	4.93	96.3	n
1,2,3,4,7,8,9-HpCDF	30701000	1.01 y	36:01	1.40	437.67	1.66	-	n
Total HpCDF	66649990	1.02 y	34:52	1.50	891.07	1.47	-	n
13C-1,2,3,4,6,7,8-HpCDD	82799600	1.07 y	35:41	0.71	1935.46	2.80	96.8	n

1,2,3,4,6,7,8-HpCDD	24694300	1.05 y	35:41	1.31	456.25	1.21	-	n
Total HpCDD	25158054	1.09 y	35:07	1.31	464.82	1.21	-	n
13C-OCDD	160264800	0.90 y	38:13	0.61	4413.43	1.65	110.3	n
OCDF	50297000	0.89 y	38:20	1.51	831.79	0.75	-	n
OCDD	42217200	0.90 y	38:14	1.19	882.80	0.77	-	n

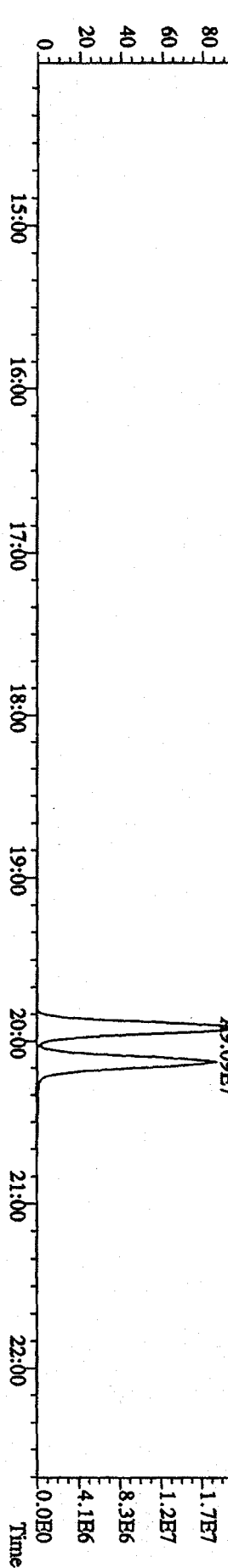
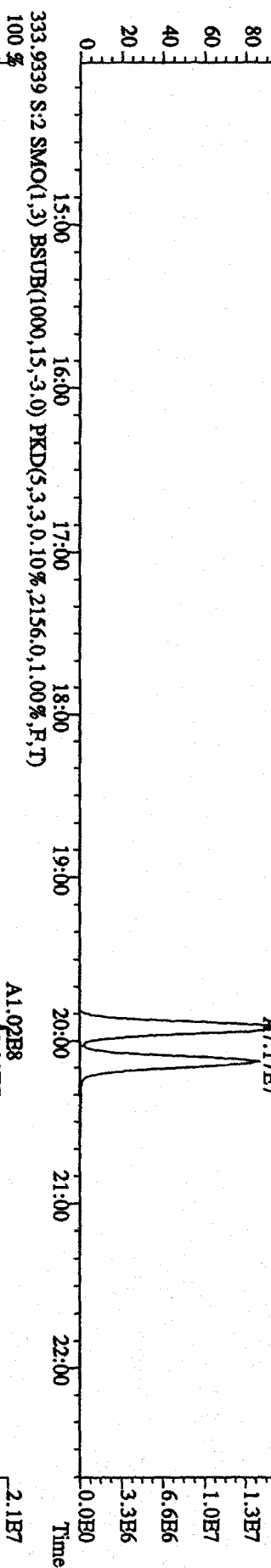
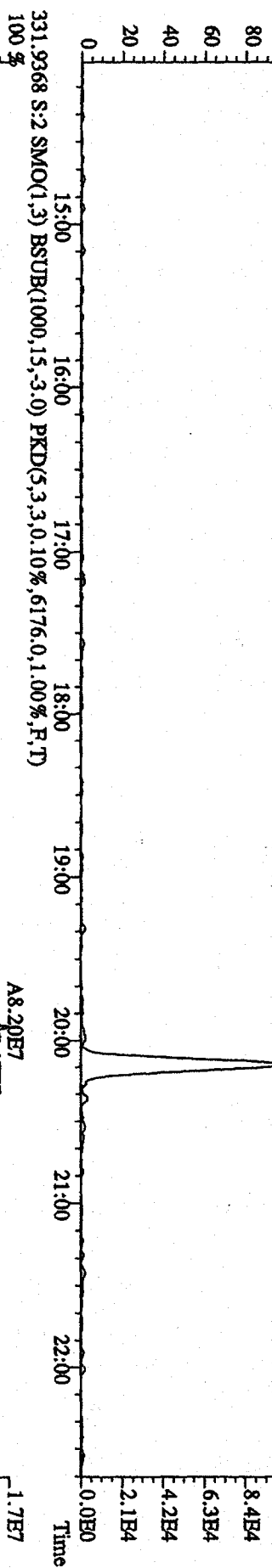
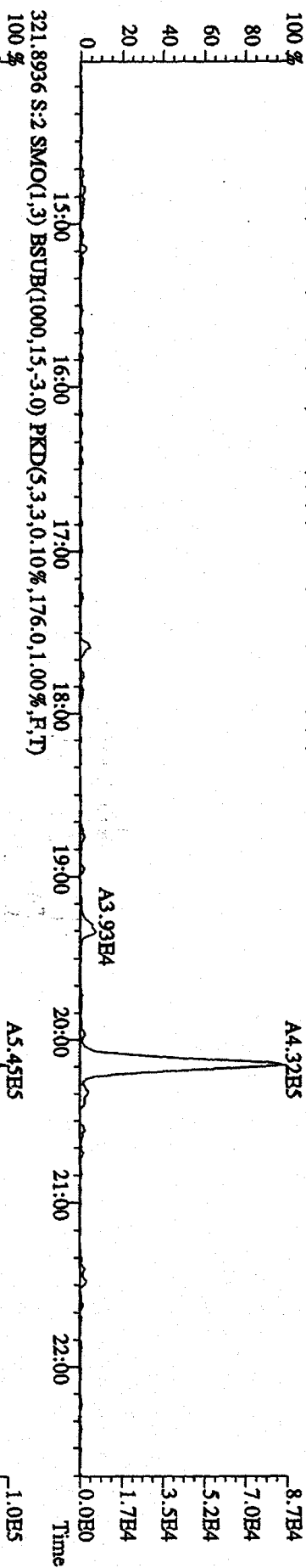
File: 16SE094D5 #1-601 Acq: 16-SEP-2009 22:46:29 GC FI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text: CP0916 : DB-5 CPSM 3732-02 Exp: DIOXIN
 319.8965 BSUB(128,15,-3.0)



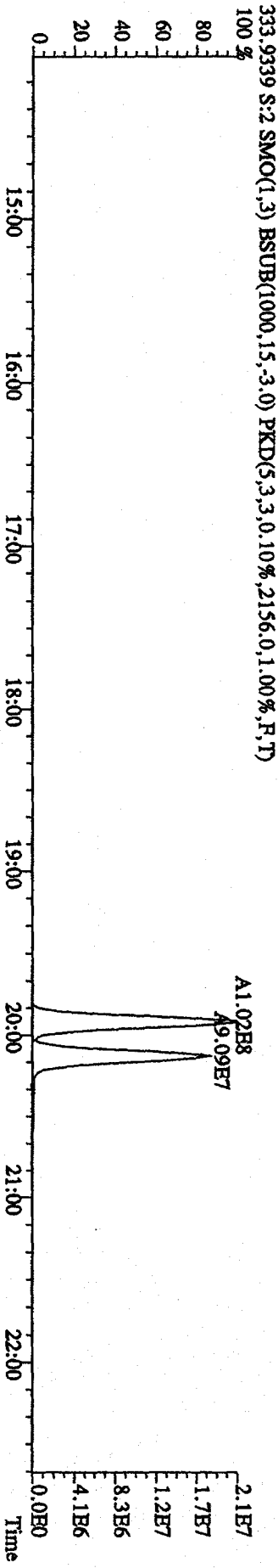
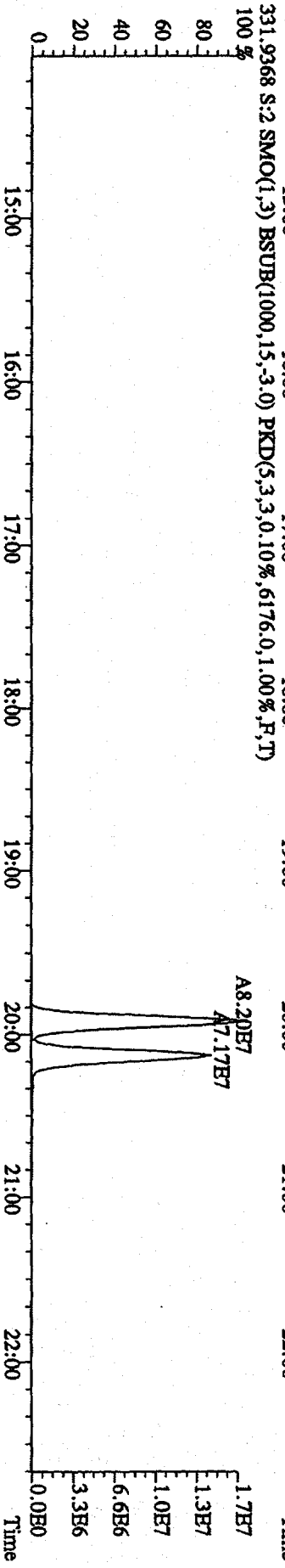
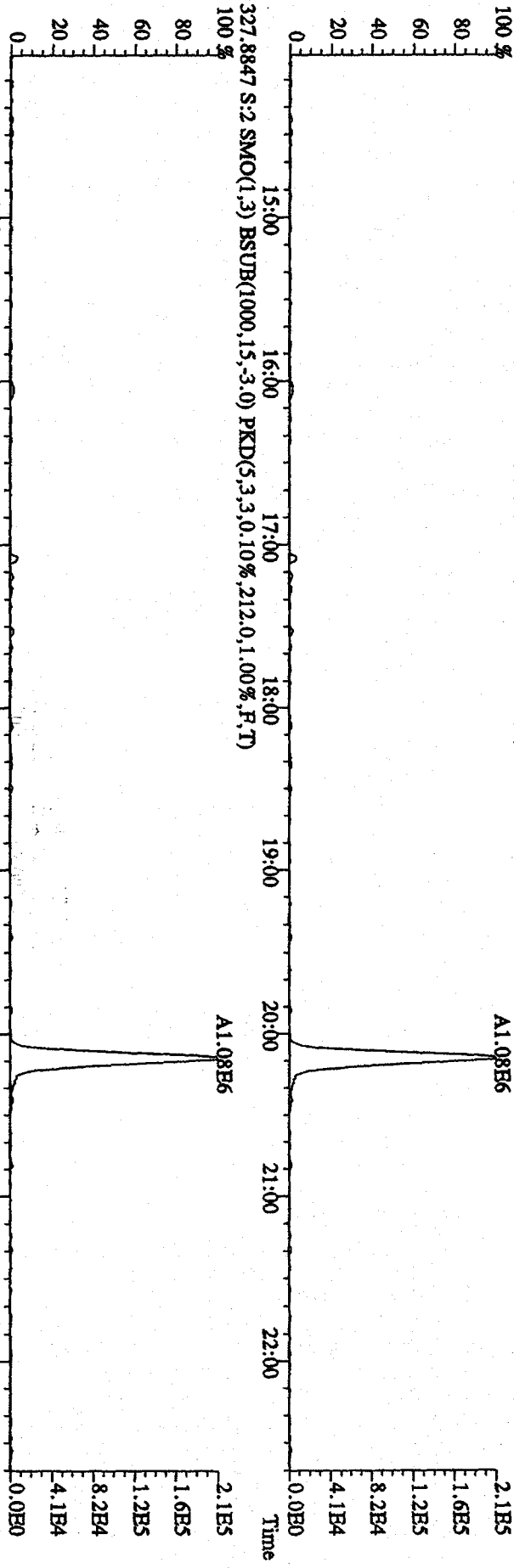
File: 16SE094D5 #1-601 Acq: 16-SEP-2009 23:31:24 GC EI+ Voltage SIR Autospec-Ultmah
 Sample#2 Text: ST0916 :CS-1 09DXN236 Exp: DIOXIN
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,256,0,1,00%,F,T)
 100%



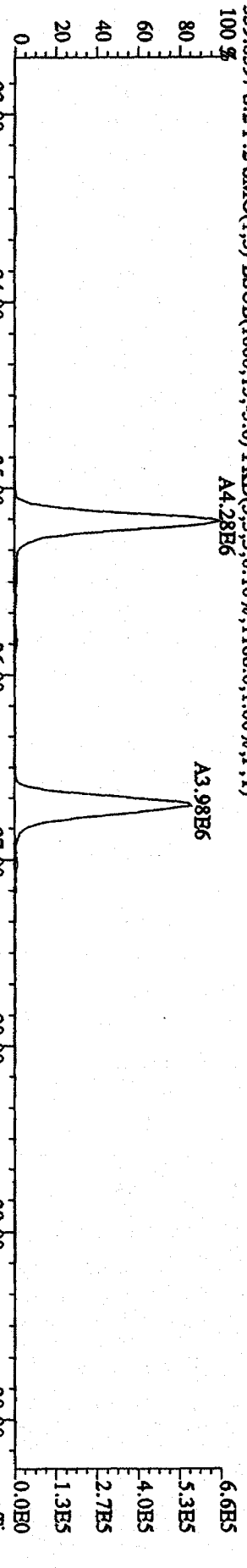
File:16SBE094D5 #1-601 Acq:16-SEP-2009 23:31:24 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:ST0916 :CS-1 09DXN236 Exp:DIOXIN
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,184,0,1,00%,F,T)
 100%



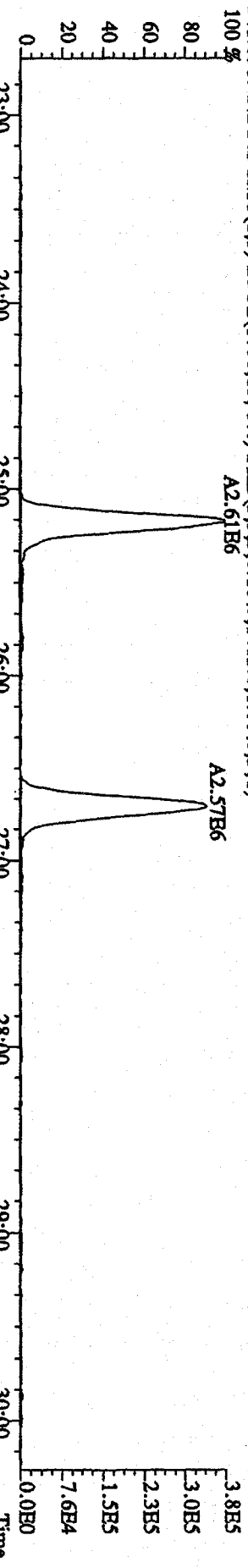
File: 16SEP094D5 #1-601 Acq: 16-SEP-2009 23:31:24 GC EI+ Voltage SIR Autospec-Ultimat
 Sample#2 Text: ST0916 :CS-1 09DXN236 Exp: DIOXIN
 327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,212.0,1.00%,F,T)
 100%



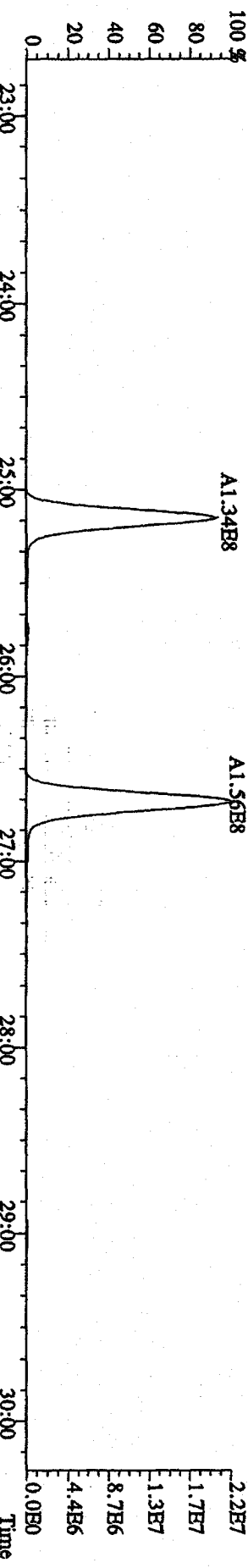
File:16SE094D5 #1-604 Acq:16-SEP-2009 23:31:24 GC EI+ Voltage SIR Autospec-DIurnalE
 Sample#2 Text:ST0916 :CS-1 09DXN236 Bsp:DIOXIN
 339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1188.0,1.00%,F,T)
 100 % A4.28E6



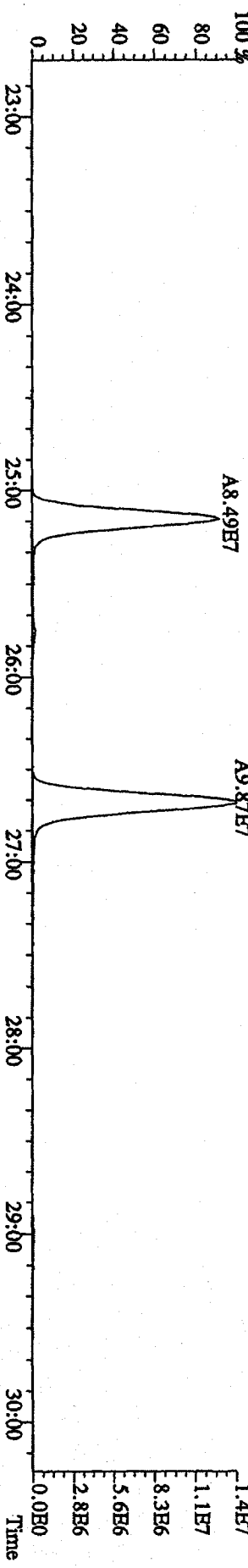
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1412.0,1.00%,F,T)
 100 % A2.61E6



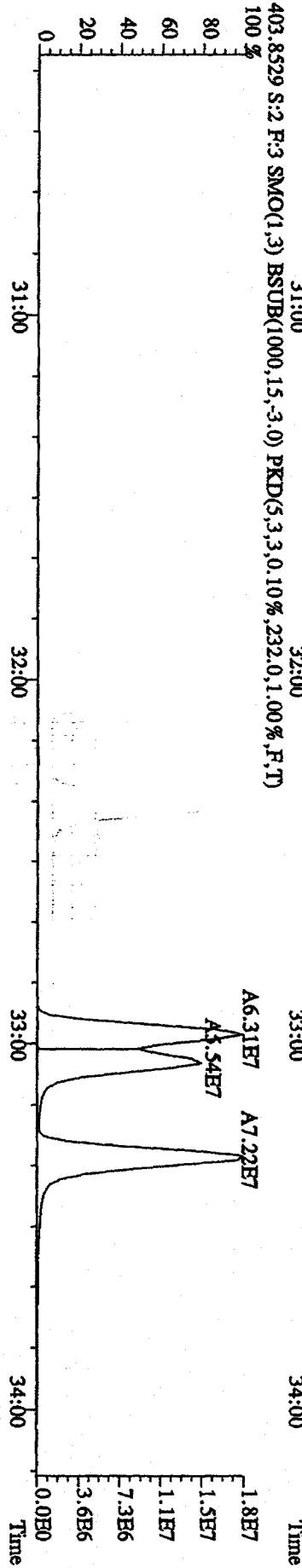
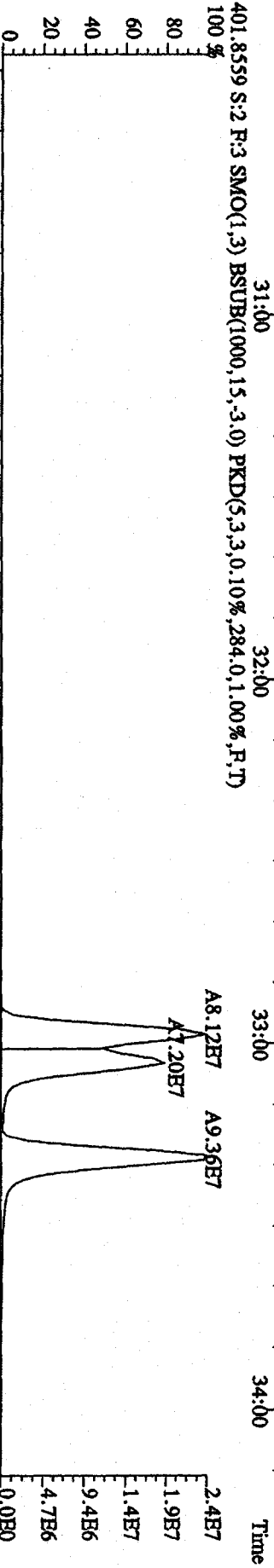
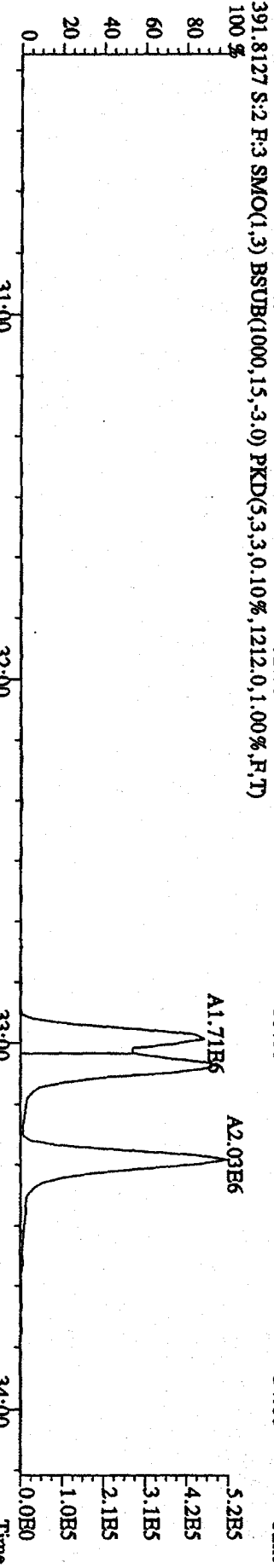
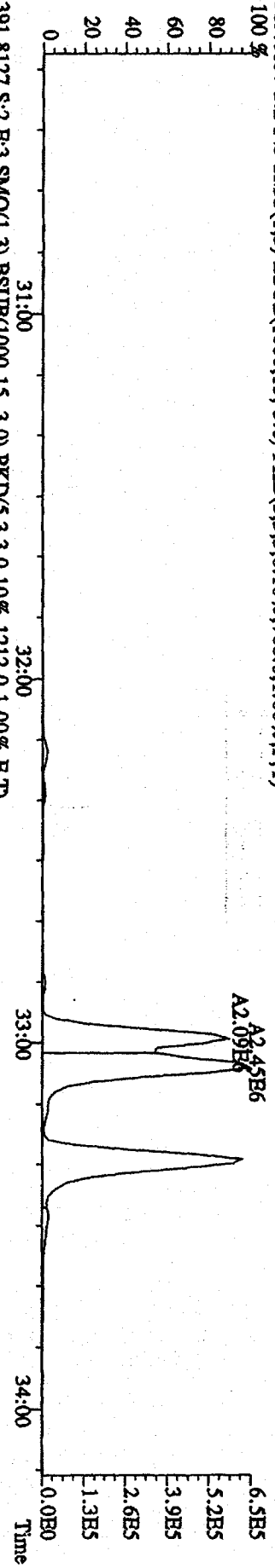
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12912.0,1.00%,F,T)
 100 % A1.34E8



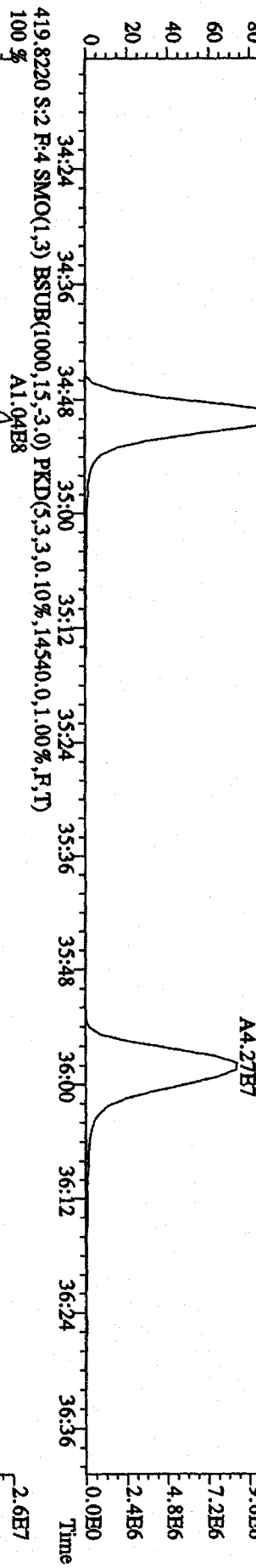
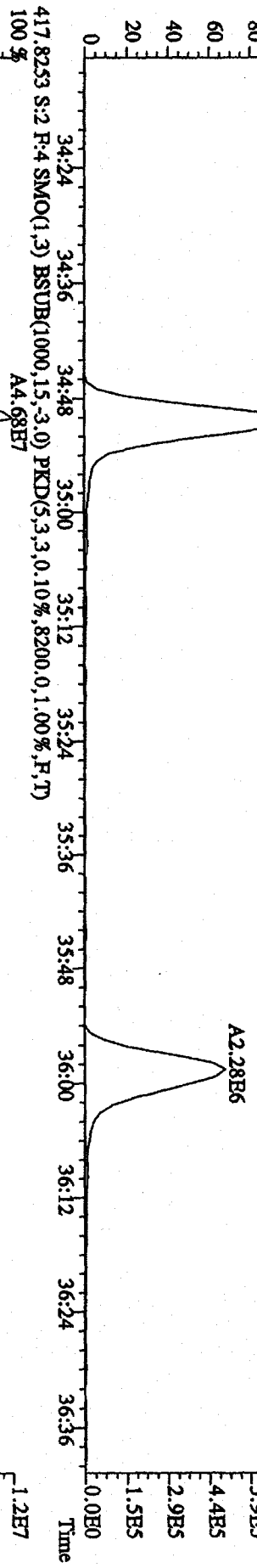
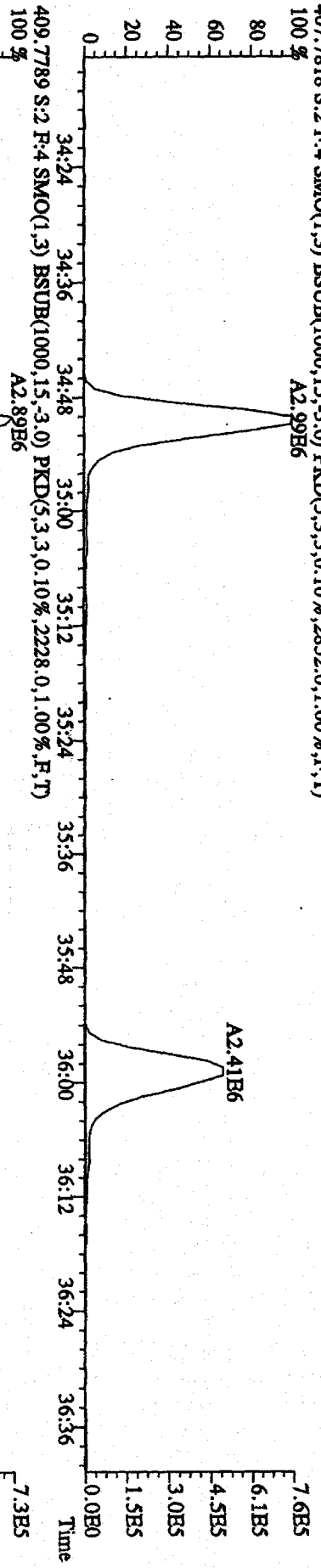
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7396.0,1.00%,F,T)
 100 % A8.49E7



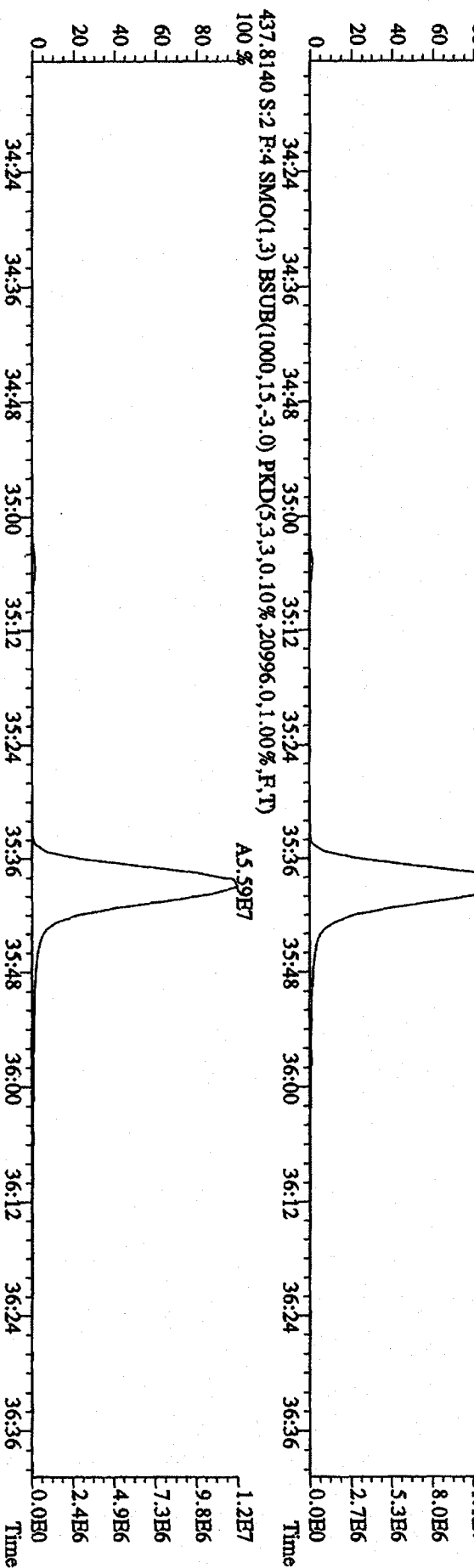
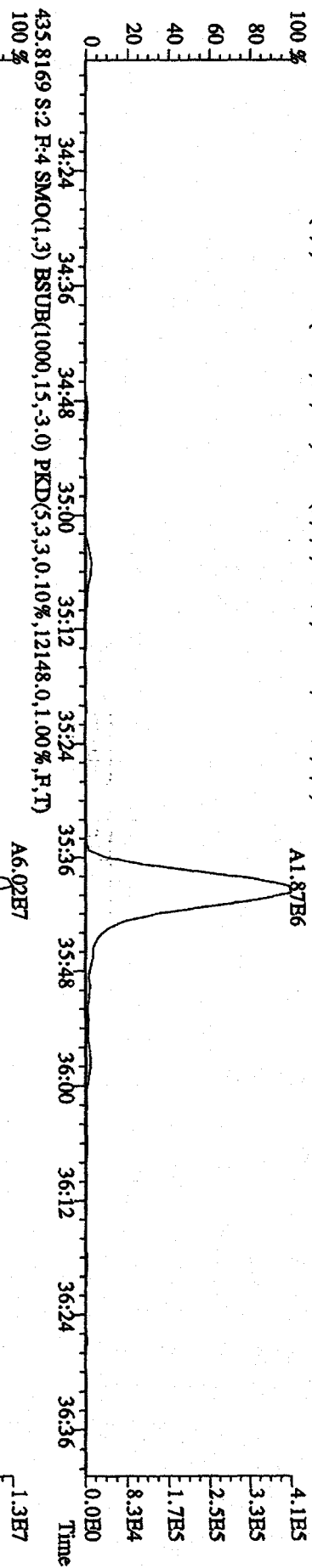
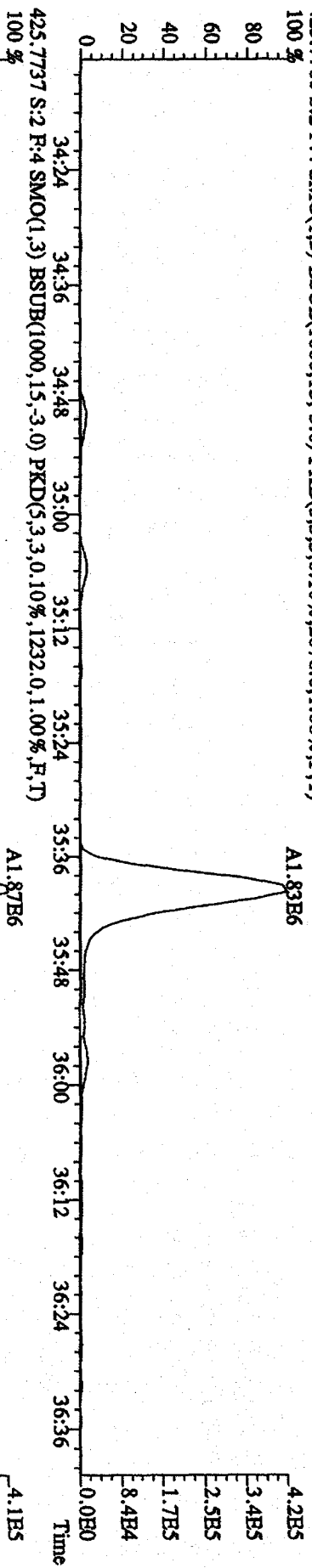
File: 16SB094D5 #1-295 Acq: 16-SEP-2009 23:31:24 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text: ST0916 :CS-1 09DXN236 Exp: DIOXIN
 389.3157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,768,0.1,0.00%,F,T)



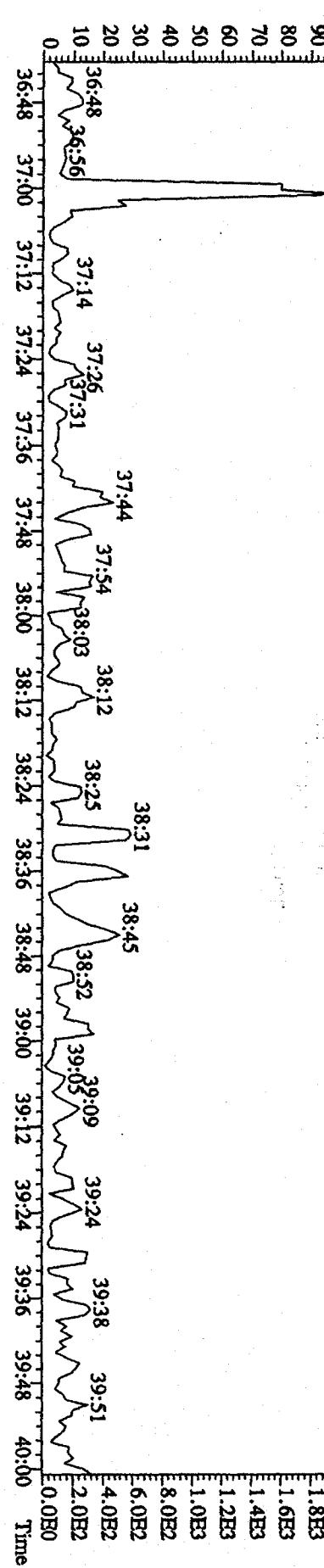
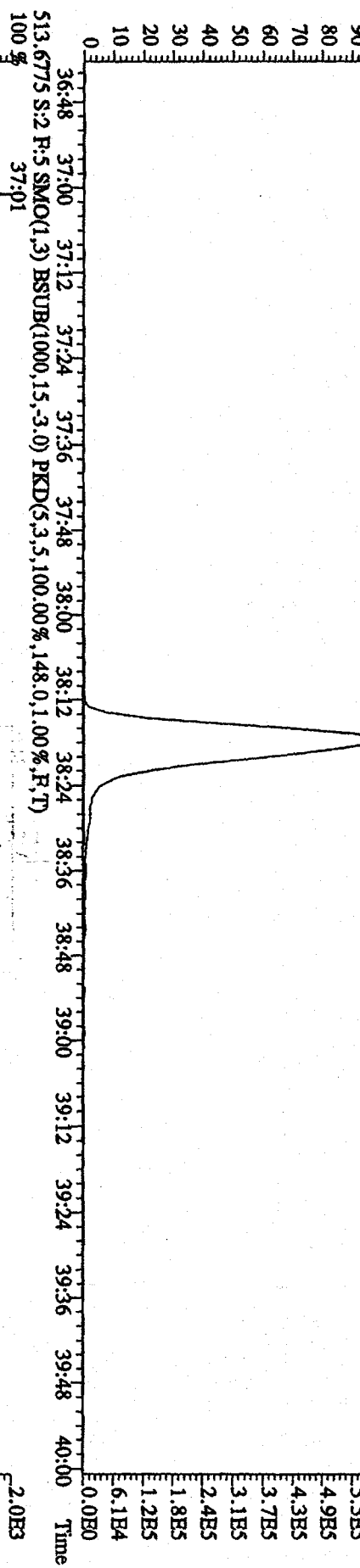
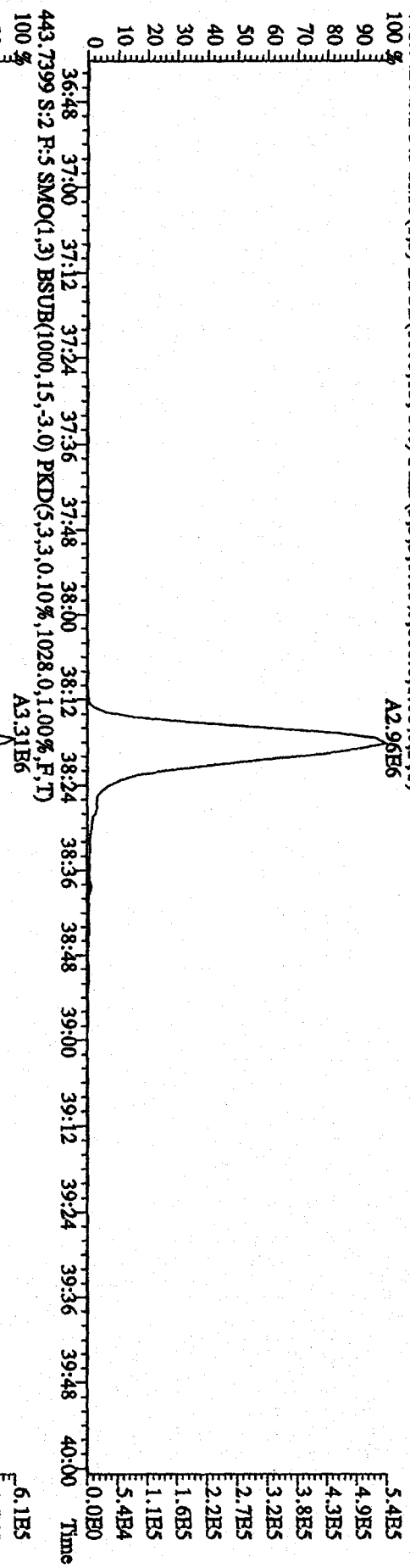
File:16SIB094D5 #1-198 Acq:16-SEP-2009 23:31:24 GC HI + Voltage SIR Autospec-Ultimate
 Sample#2 Text:ST0916 :CS-1 09DXNZ36 Bsp:DIOXIN
 407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2852,0.1,00%,F,T)
 100 % A2.99E6



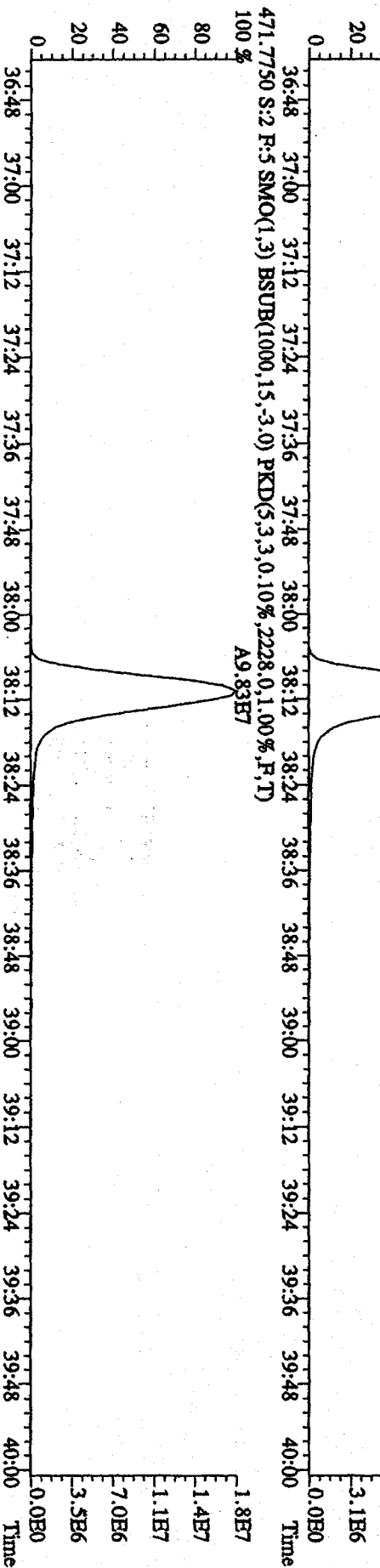
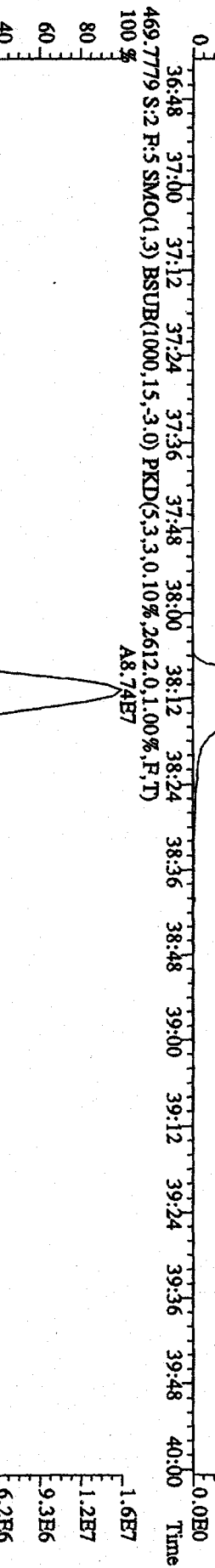
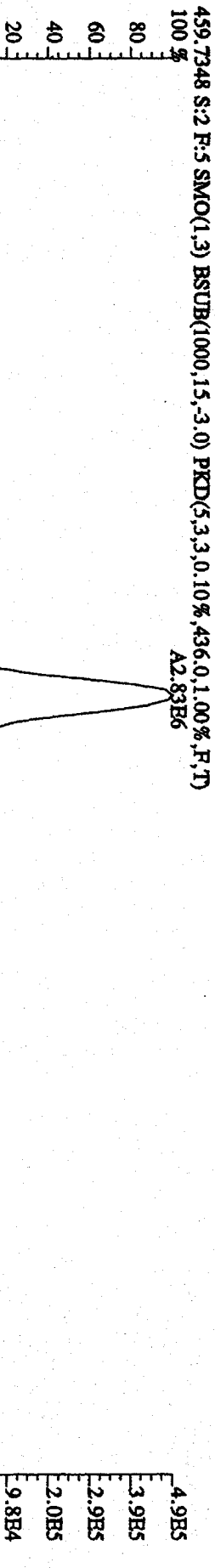
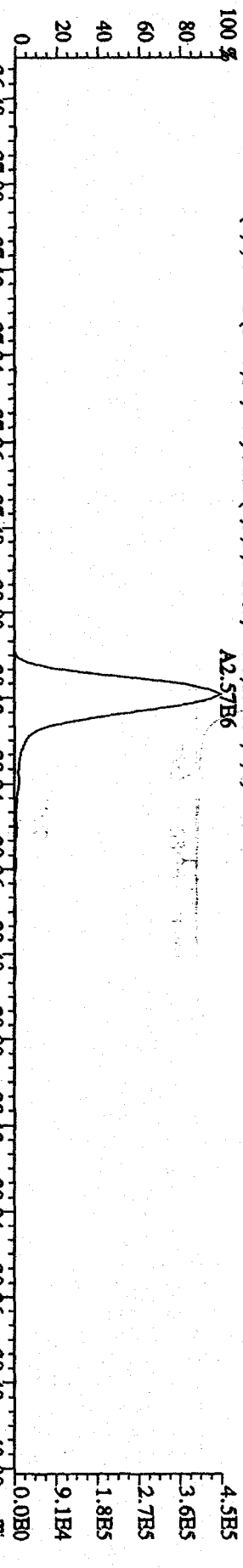
File: 16SEB094D5 #1-198 Acq: 16-SEP-2009 23:31:24 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text: ST0916 :CS-1 09DXNZ36 Exp: DIOXIN
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2076,0,1.00%,F,T)



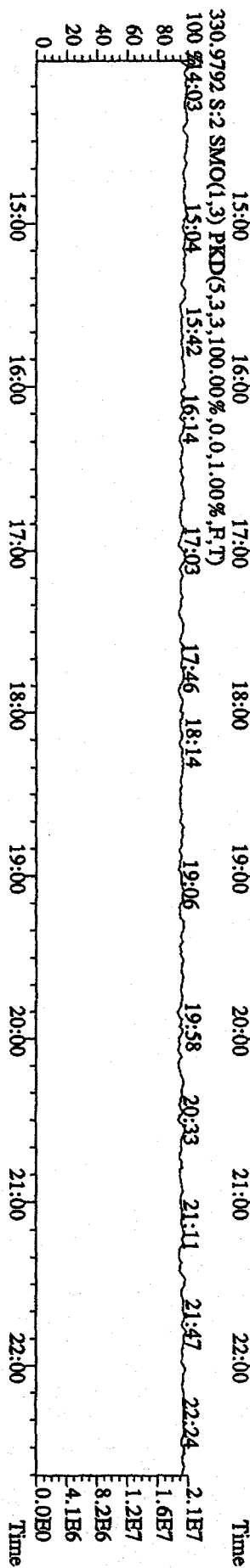
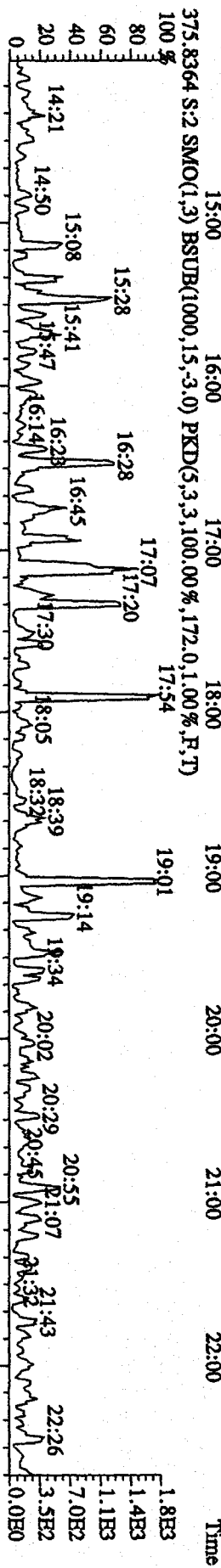
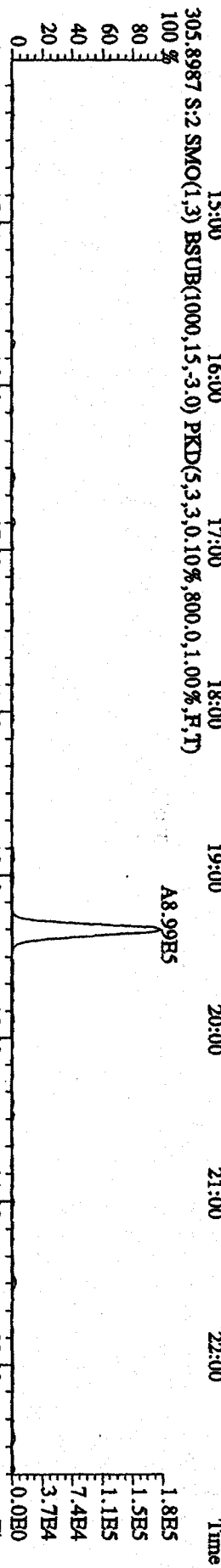
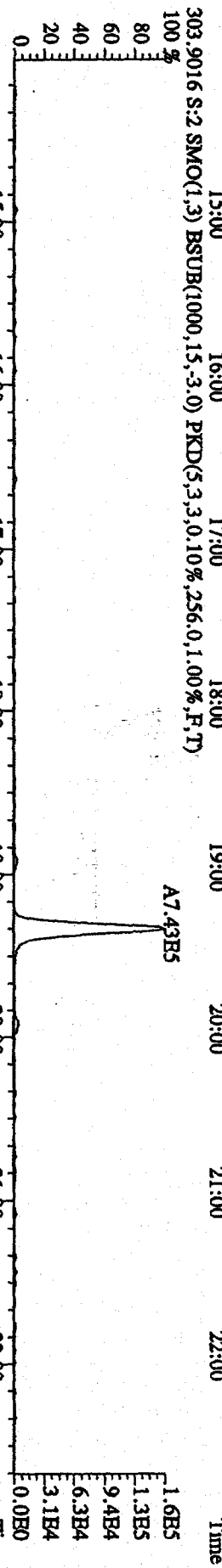
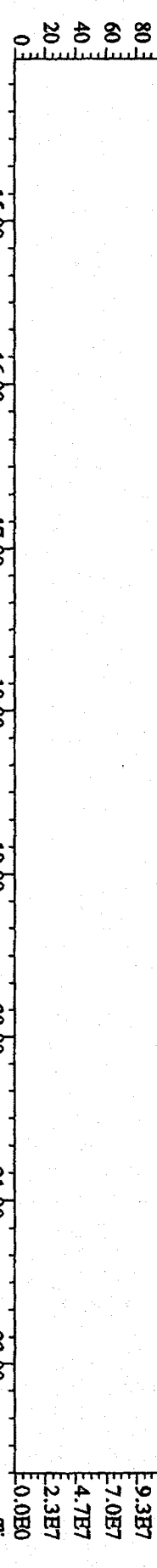
File:16SIB094D5 #1-268 Acq:16-SEP-2009 23:31:24 GC BI + Voltage SIR Autospec-Ultimate
 Sample#2 Text:ST0916 :CS-1 09DXN236 Exp:DIOXIN
 441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)
 A2.96E6



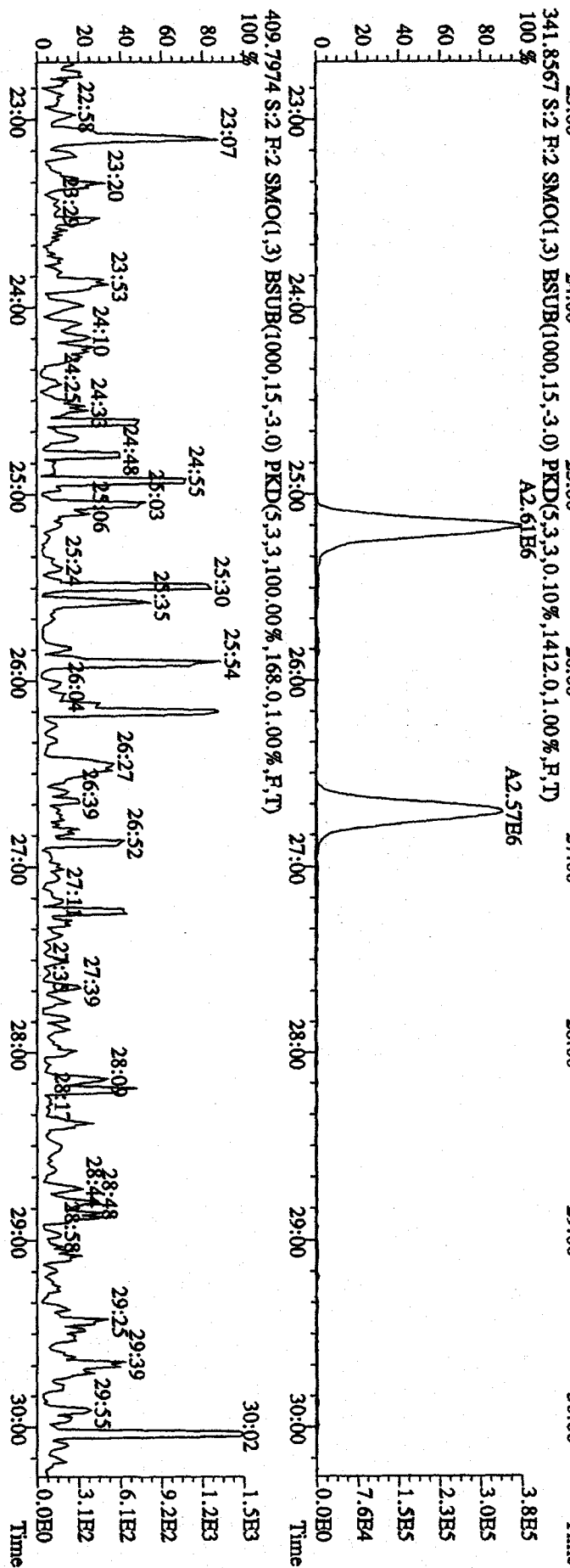
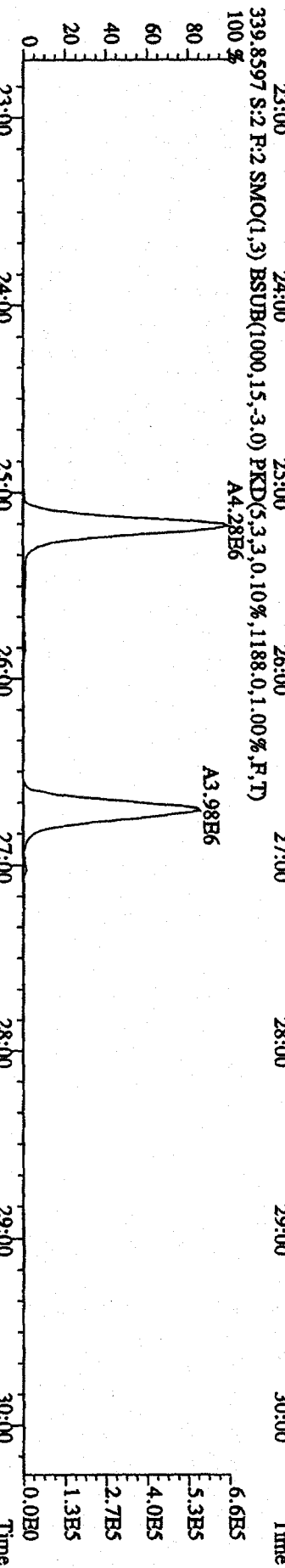
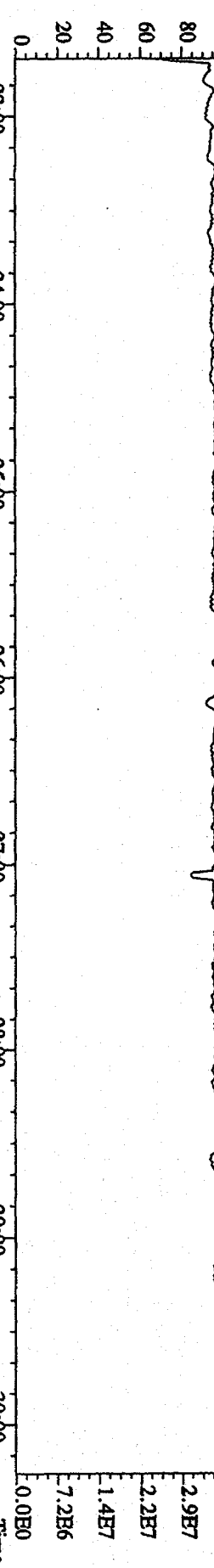
File:16SB094D5 #1-268 Acq:16-SEP-2009 23:31:24 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:ST0916 :CS-1 09DXN236 Exp:DIOXIN
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,484.0,1.00%,F,T)



File: 16SE094D5 #1-601 Acq: 16-SEP-2009 23:31:24 GC EI+ Voltage SIR Autospec-Utmate
 Sample#2 Text: ST0916 :CS-1 09DXN236 Exp: DIOXIN
 292.9825 S:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)
 100% 14:27 14:55 15:28 16:10 16:38 17:04 17:46 18:16 18:50 19:17 20:12 20:39 21:11 22:12



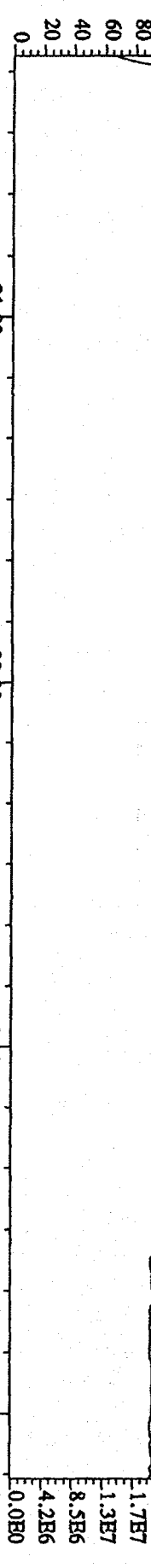
File: 16SIB094D5 #1-604 Acq:16-SBP-2009 23:31:24 GC BI + Voltage SIR Autospec-Ultimate
 Sample#2 Text:ST0916 :CS-1 09DXN236 Exp:DIOXIN
 342.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 23:52 23:18 23:53 24:29 25:09 25:43 26:13 26:59 27:30 27:57 28:28 29:02 29:52



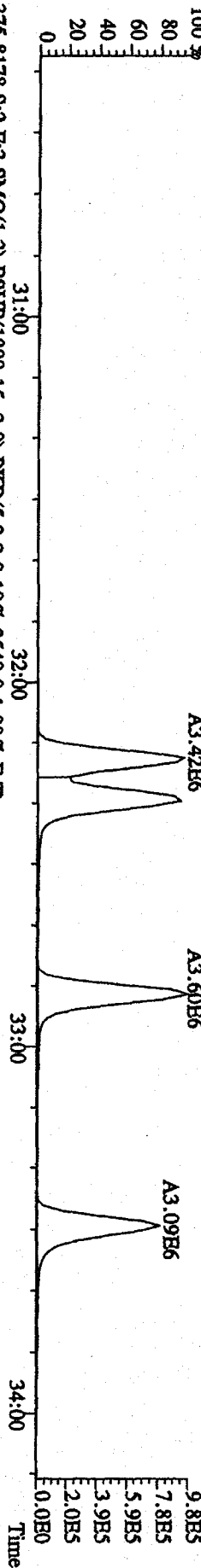
File: 16SEB094D5 #1-295 Acq: 16-SEP-2009 23:31:24 GC HI+ Voltage SIR Autospec-UltimaB

Sample#2 Text: ST0916 : CS-1 09DXNZ26 Exp: DIOXIN

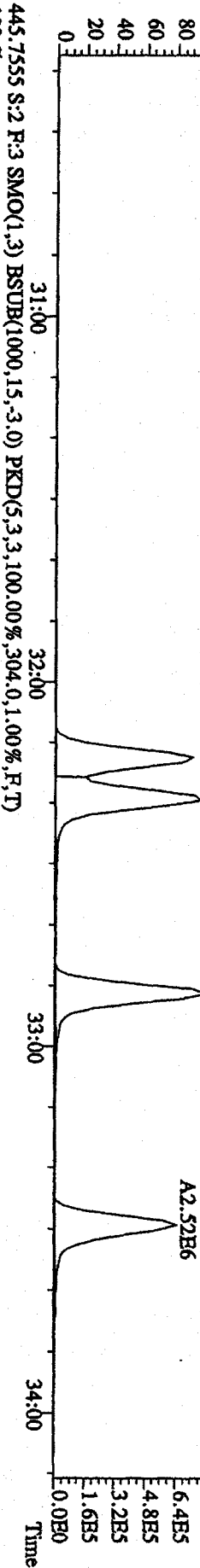
392.9760 S:2 F:3 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



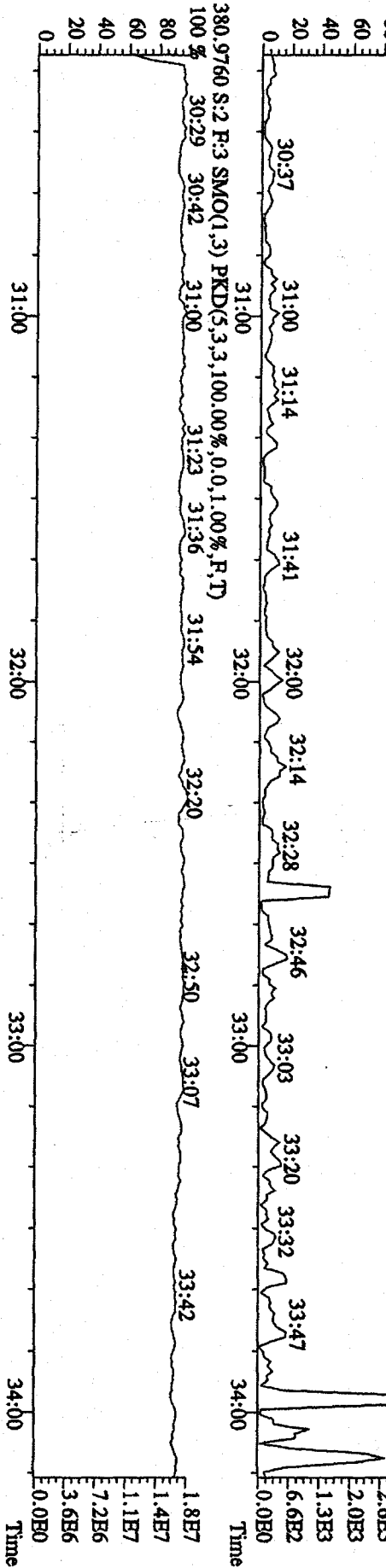
373.8208 S:2 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,4188,0.1,0.00%,F,T)



375.8178 S:2 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,2540,0.1,0.00%,F,T)



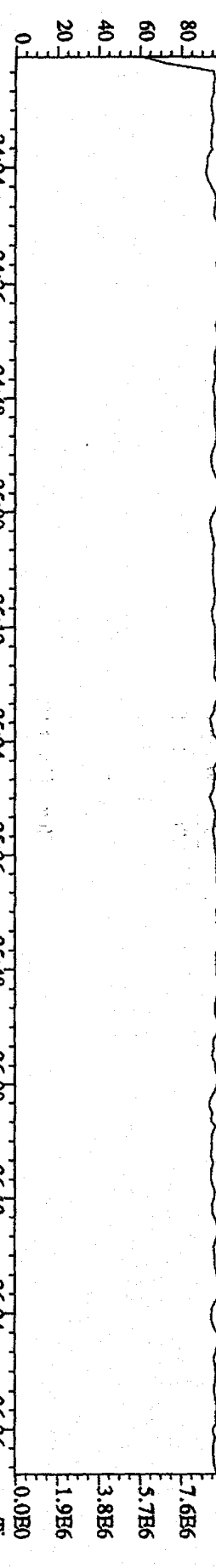
445.7555 S:2 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,304,0.1,0.00%,F,T)



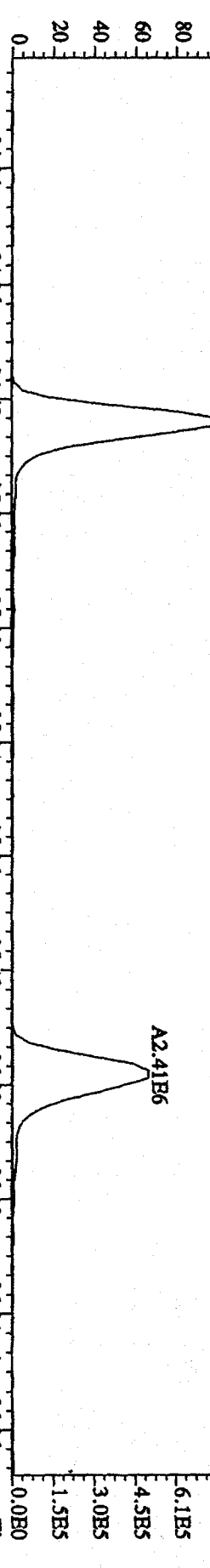
File:16SEB094D5 #1-198 Acq:16-SEP-2009 23:31:24 GC EI+ Voltage SIR Autospec-UltimaB

Sample#2 Text:ST0916 :CS-1 09DXN236 Exp:DIOXIN

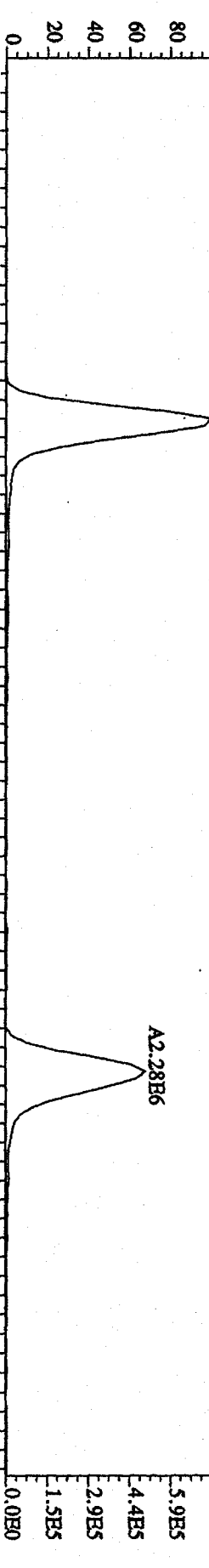
430.9728 S:2 F:4 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)



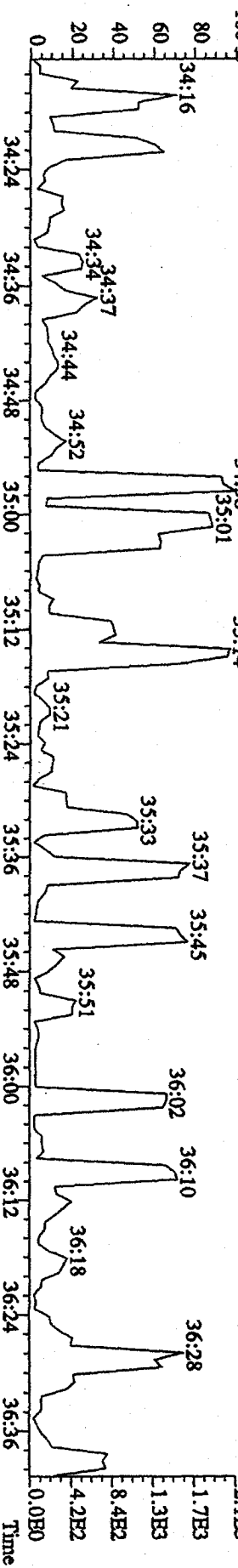
407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2852,0,1.00%,F,T)



409.7789 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2228,0,1.00%,F,T)



479.7155 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,244,0,1.00%,F,T)

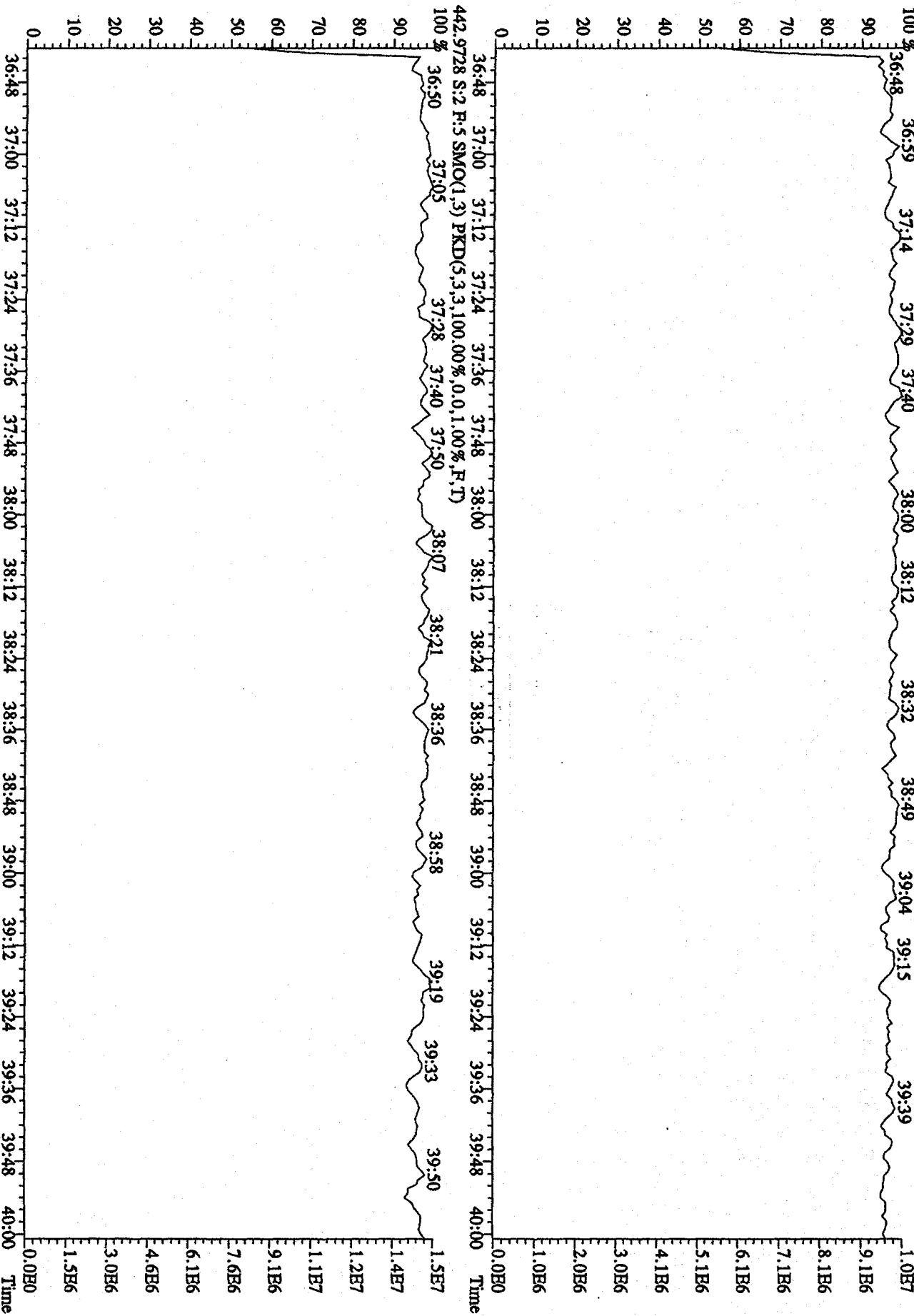


File:16SB094D5 #1-268 Acq:16-SBP-2009 23:31:24 GC EI+ Voltage SIR Autospec-UltimaE

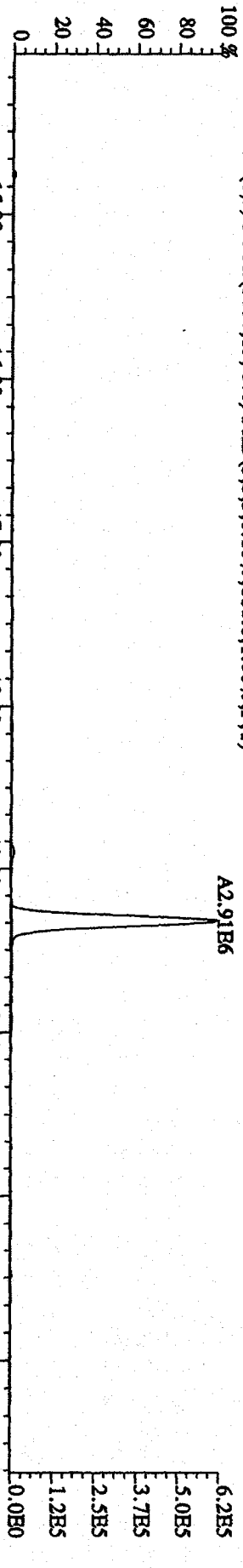
Sample#2 Tex:ST0916 :CS-1 09DDXN236 Exp:DIOXIN

454.9728 S.2 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

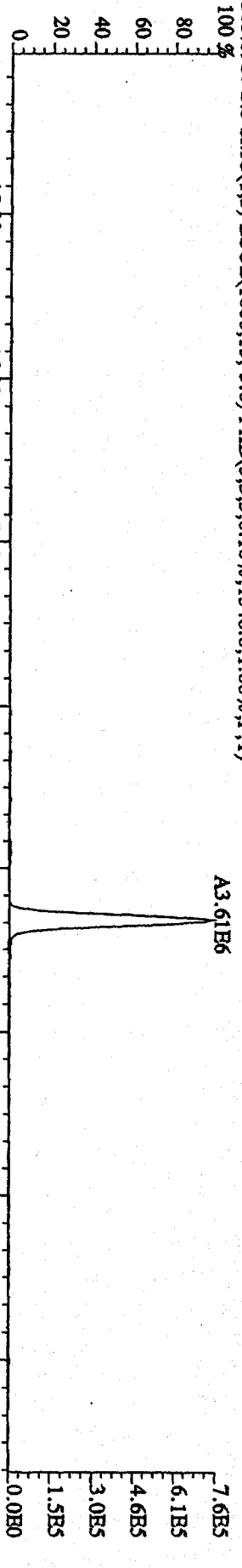
100 % 36:48 36:59 37:14 37:29 37:40 38:00 38:12 38:32 38:49 39:04 39:15 39:39



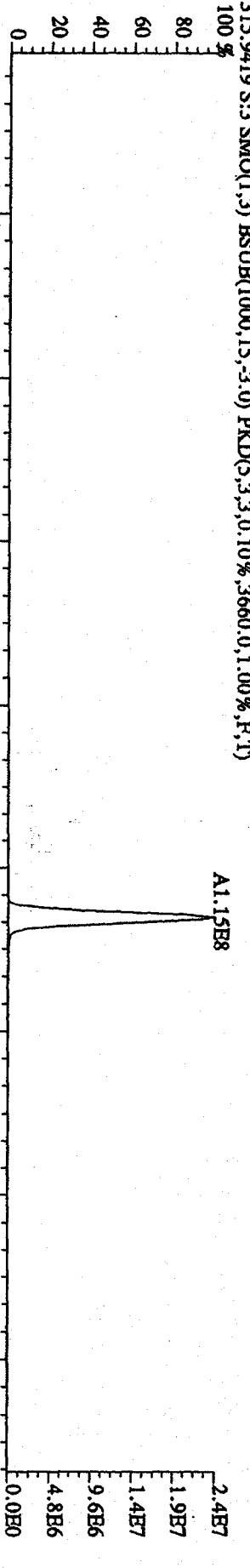
File:16SBE094D5 #1-601 Acq:17-SBP-2009 00:15:26 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:ST0916A :CS-2-09DXN237 Exp:DIOXIN
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)



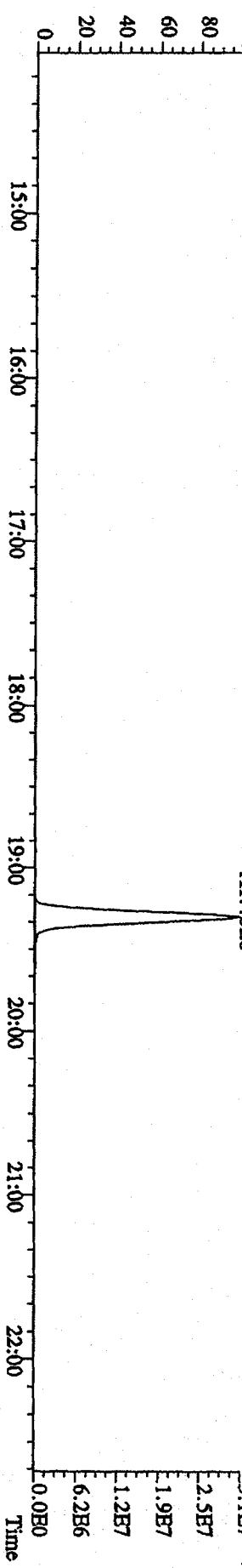
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1548.0,1.00%,F,T)



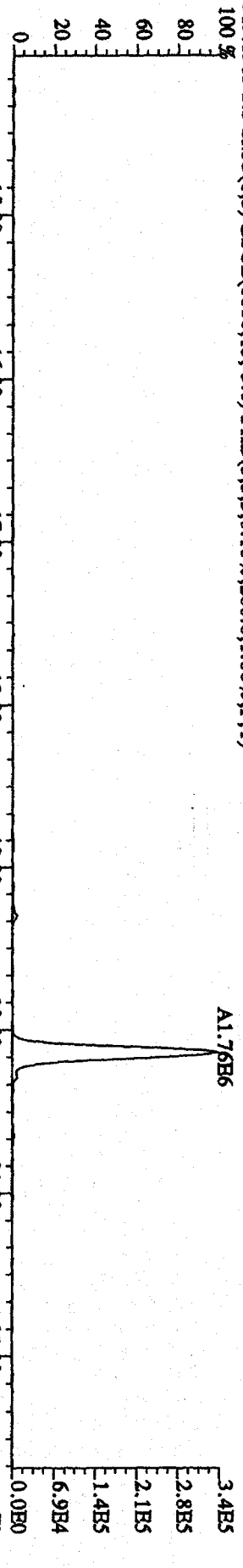
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3660.0,1.00%,F,T)



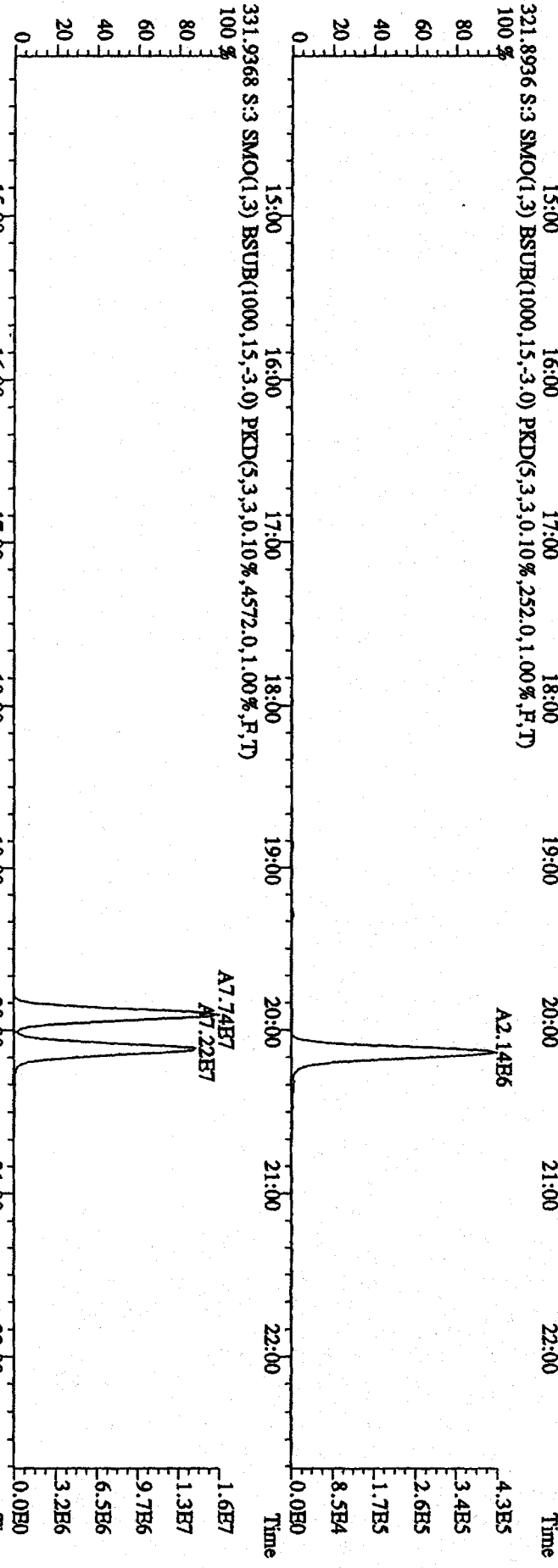
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2652.0,1.00%,F,T)



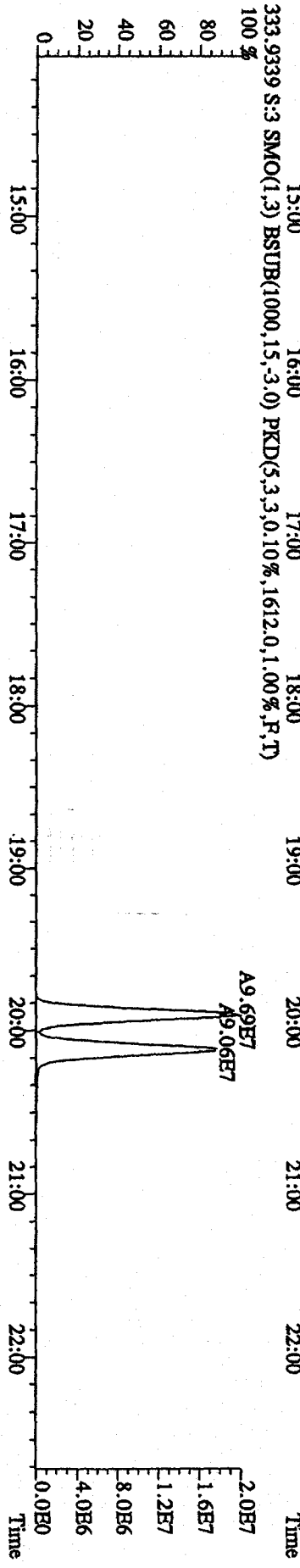
File: 16SHE094D5 #1-601 Acq: 17-SEP-2009 00:15:26 GC EI+ Voltage S1R Autospec-UltimaB
 Sample#3 Text: ST0916A :CS-2 09DXN237 Exp: DIOXIN
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,280.0,1.00%,F,T)
 100%



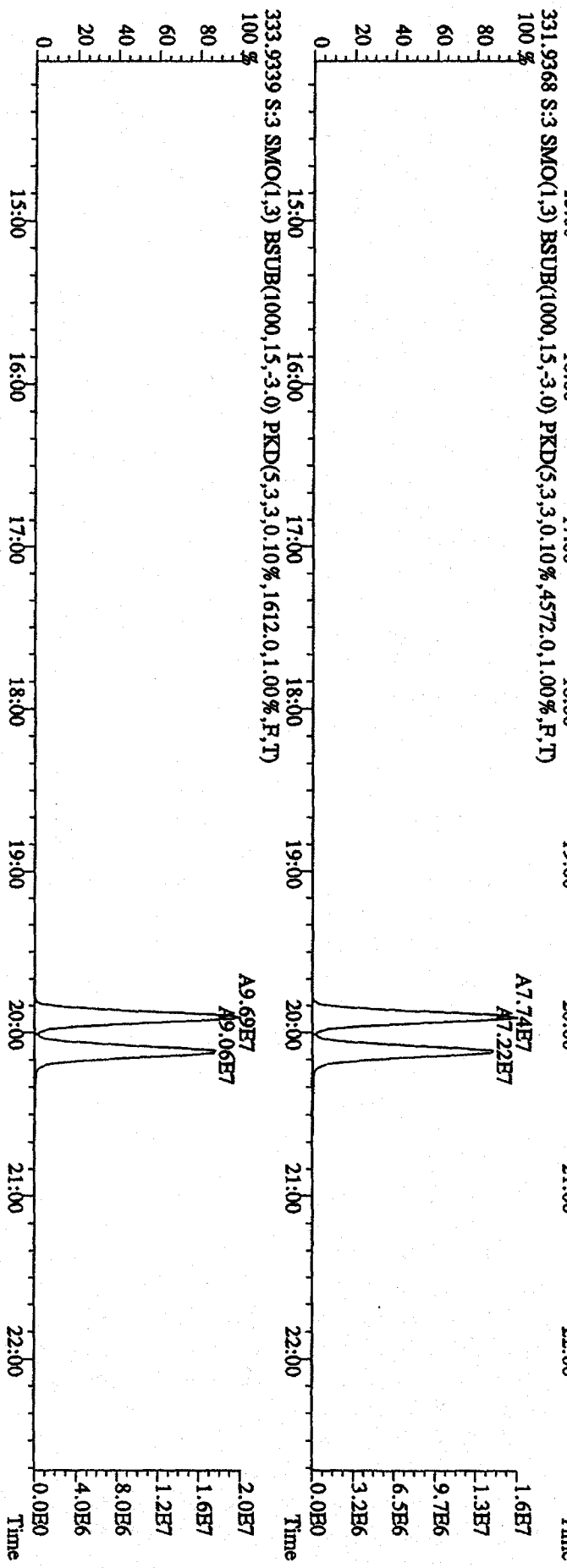
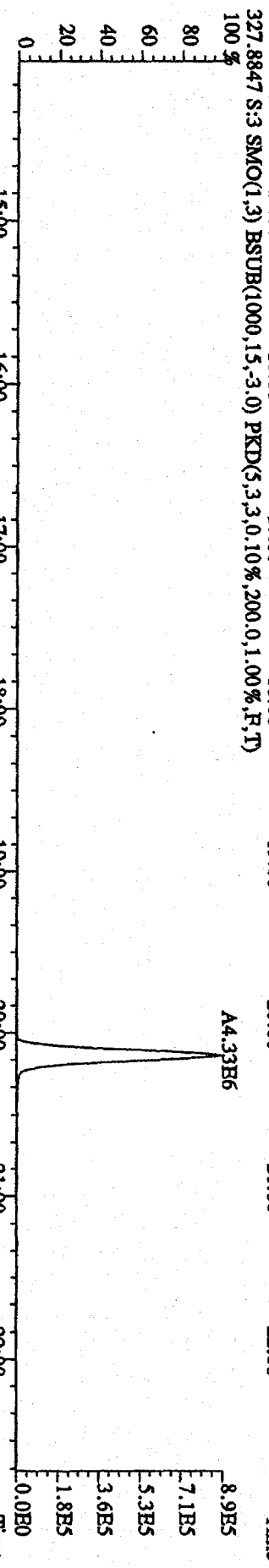
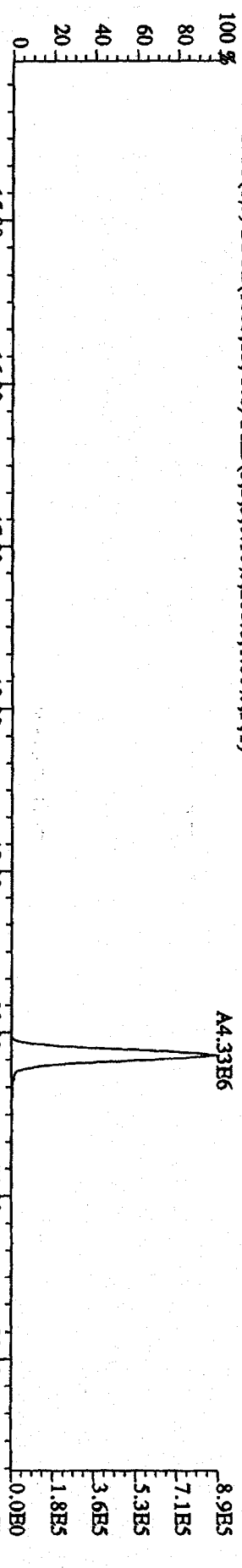
321.8936 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,252.0,1.00%,F,T)
 100%



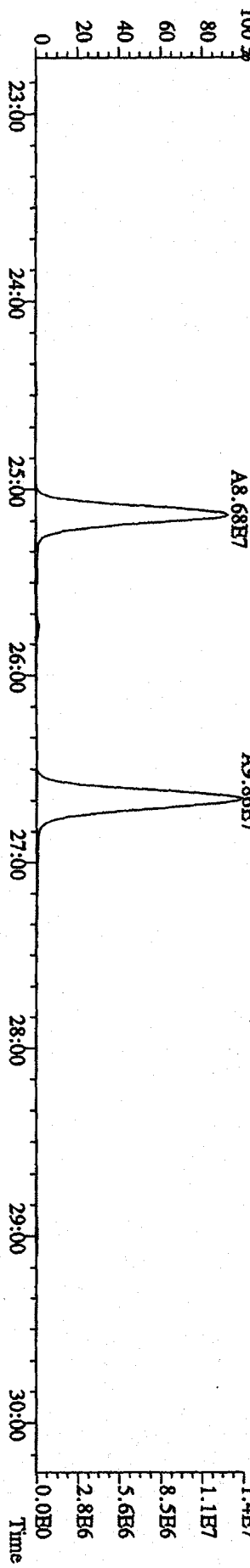
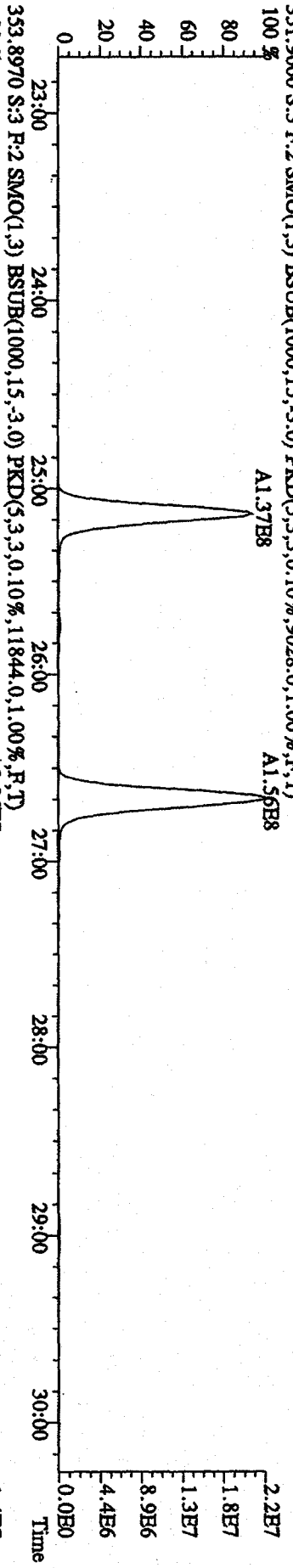
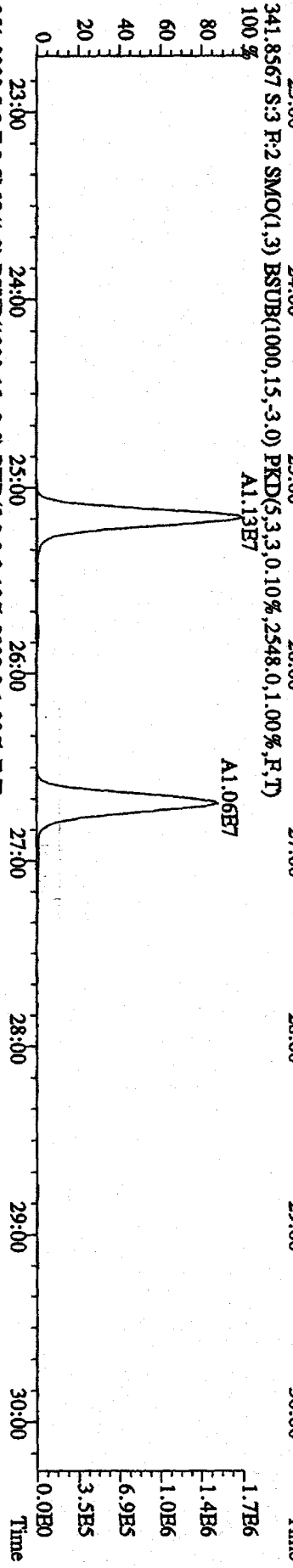
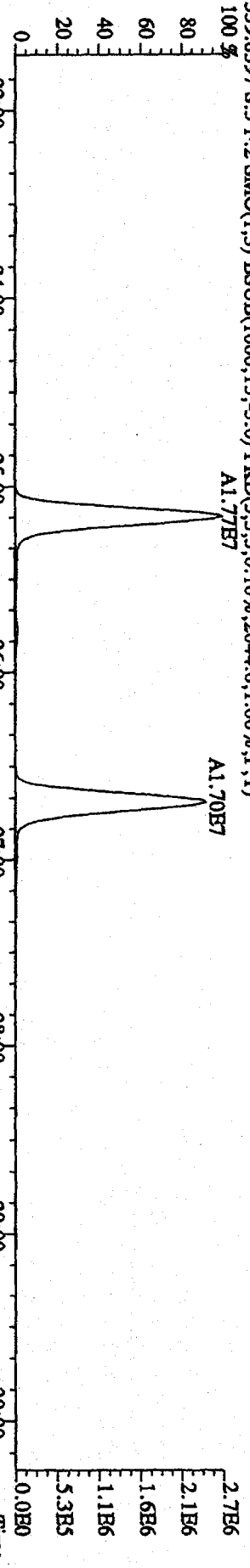
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1612.0,1.00%,F,T)
 100%



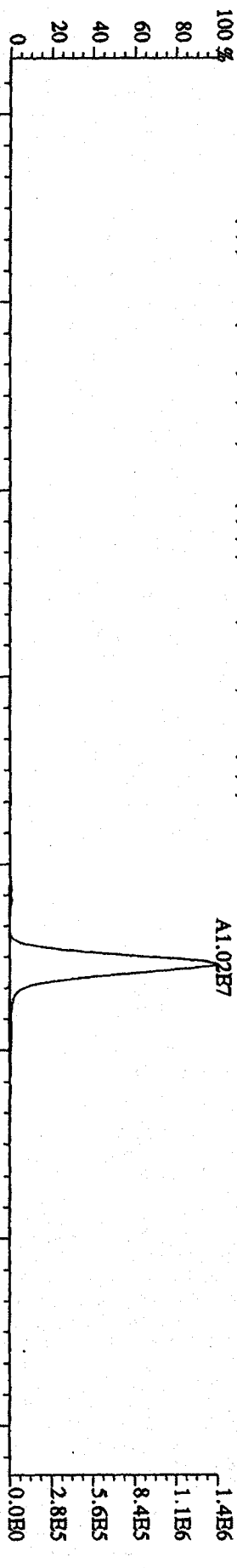
File: 16SBE094D5 #1-601 Acq:17-SEP-2009 09:15:26 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:ST0916A :CS-2-09DXN237 Exp:DIOXIN
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,200.0,1.00%,F,T)
 100 %



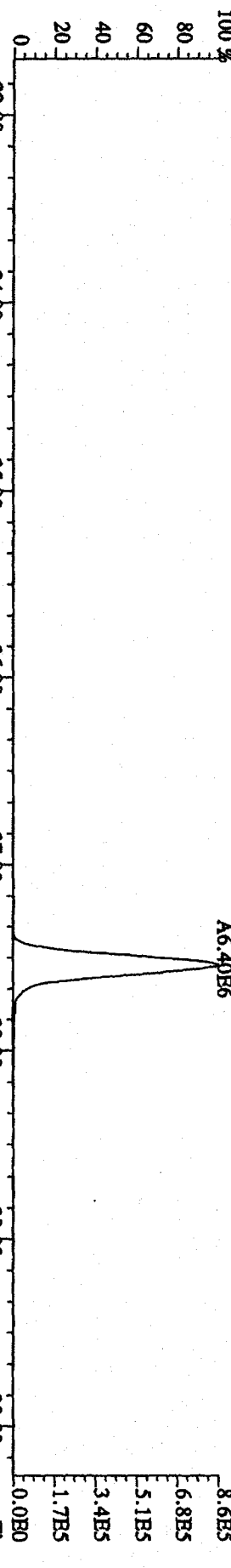
File: 16SE094D5 #1-603 Acq: 17-SEP-2009 00:15:26 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text: ST0916A :CS-2 09DXN237 Exp: DIOXIN
 339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2044,0,1,00%,F,T)
 100%



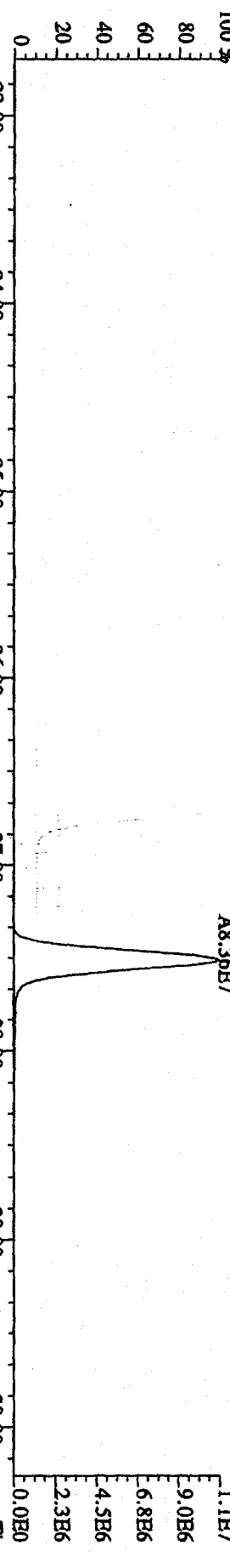
File: 16SE094D5 #1-603 Acq: 17-SEP-2009 00:15:26 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text: ST0916A :CS-2 09DXN237 Exp: DIOXIN
 355,8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1524,0,1,00%,F,T)
 100%



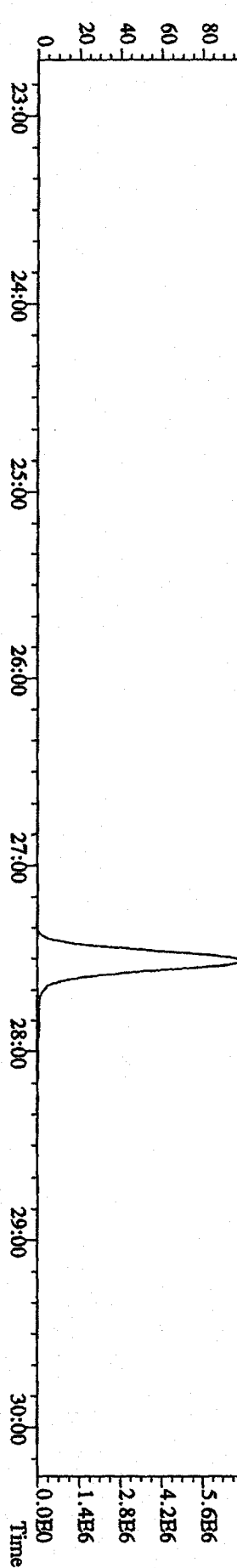
357,8516 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,524,0,1,00%,F,T)
 100%



367,8949 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1624,0,1,00%,F,T)
 100%

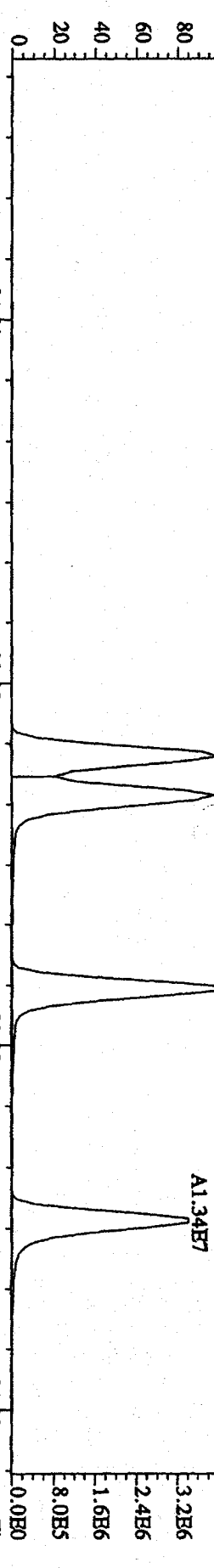


369,8919 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4456,0,1,00%,F,T)
 100%

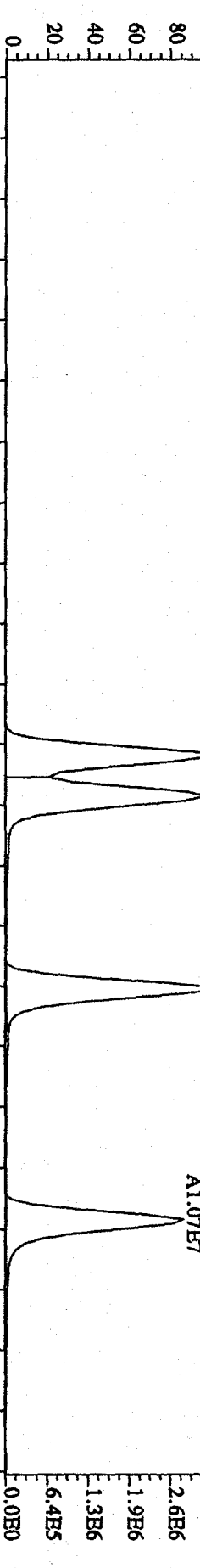


File: 16SB094D5 #1-295 Acq: 17-SEP-2009 00:15:26 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text: ST0916A :CS-2-09DXND37 Exp: DIOXIN

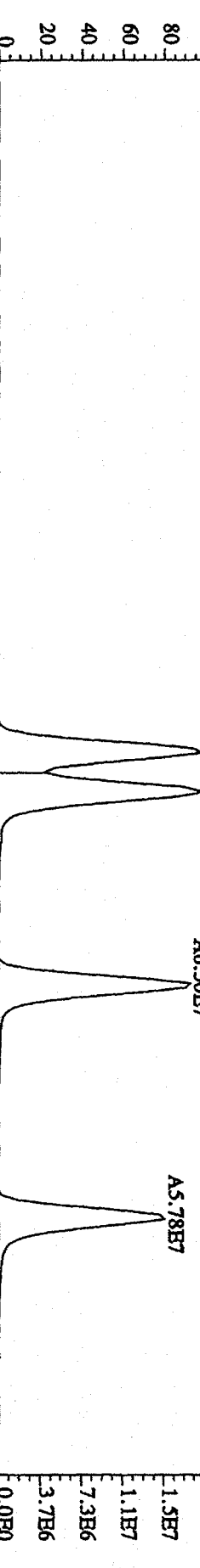
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6760.0,1.00%,F,T)
 100%



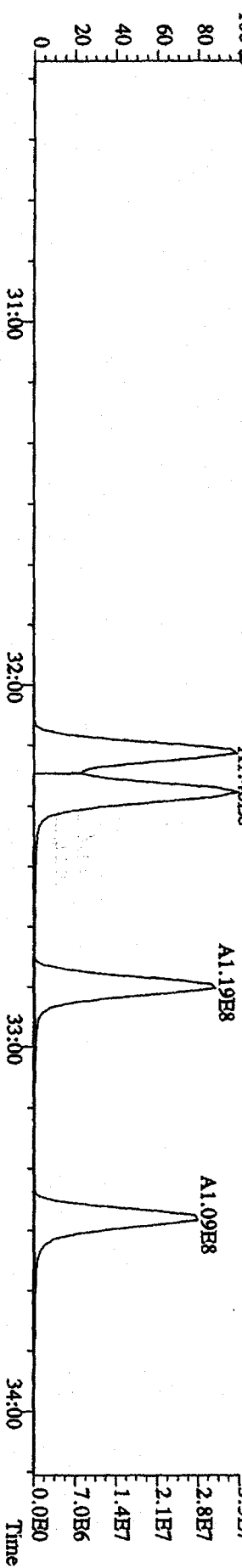
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,996.0,1.00%,F,T)
 100%



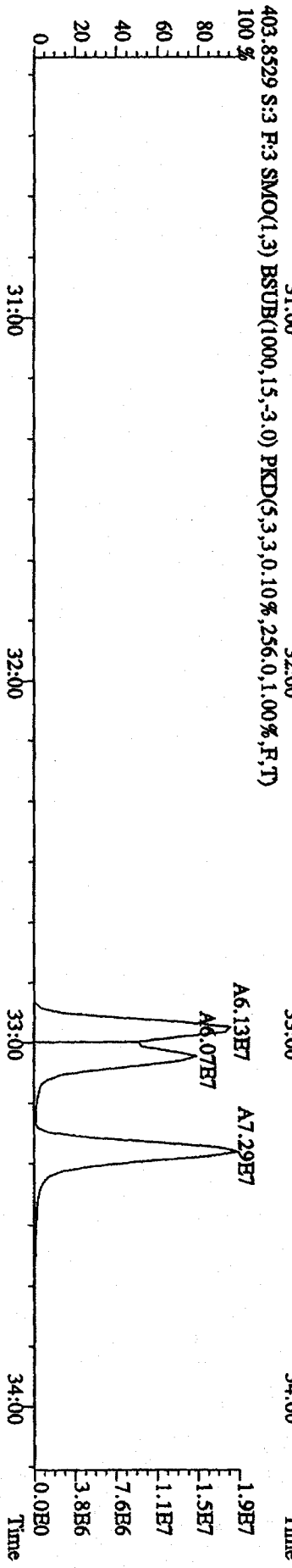
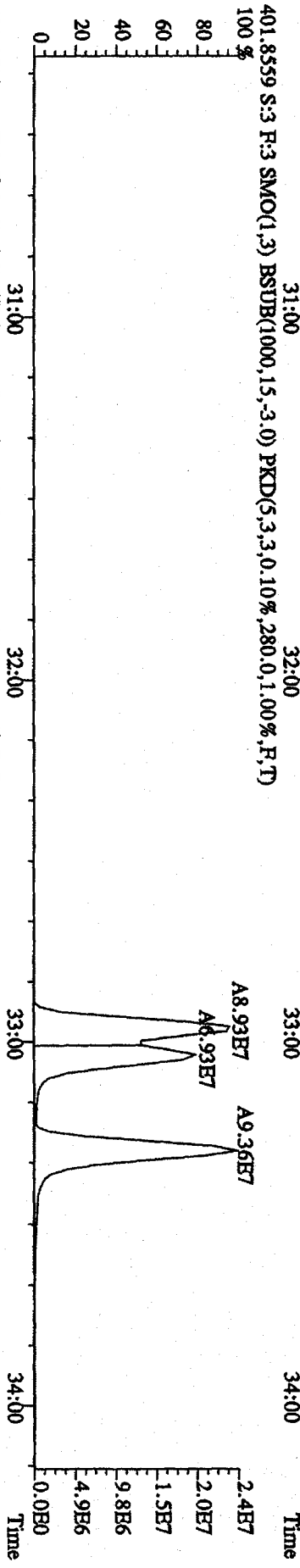
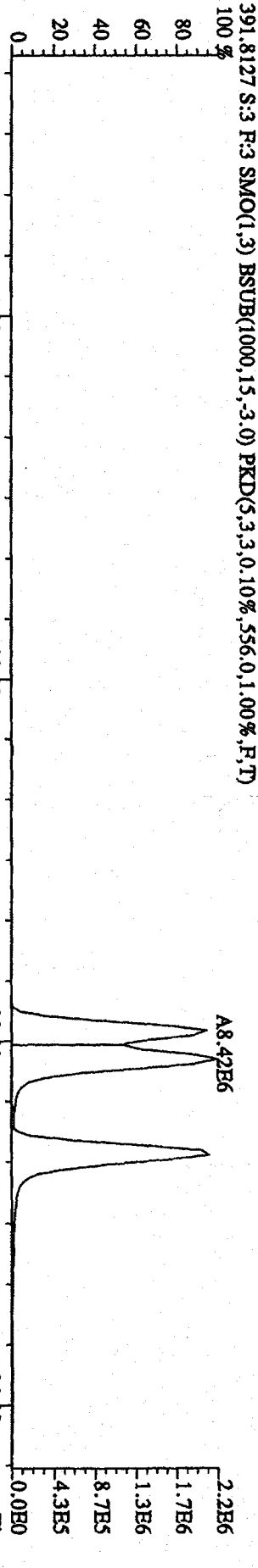
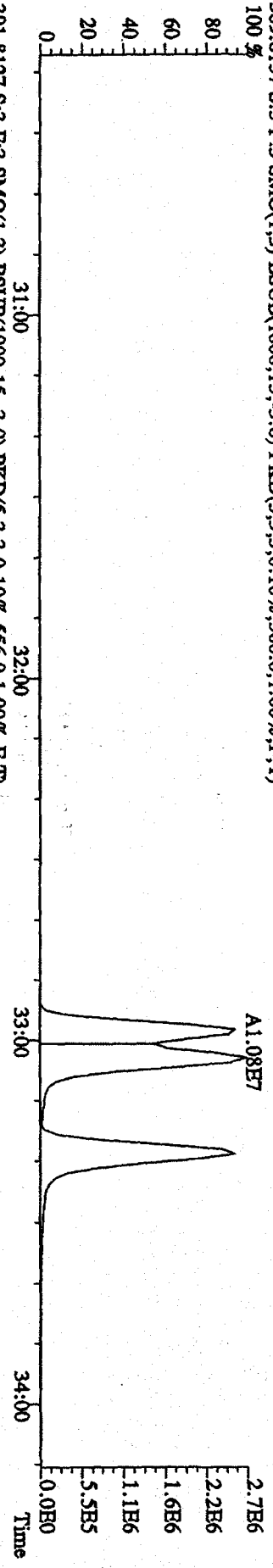
383.8639 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3172.0,1.00%,F,T)
 100%



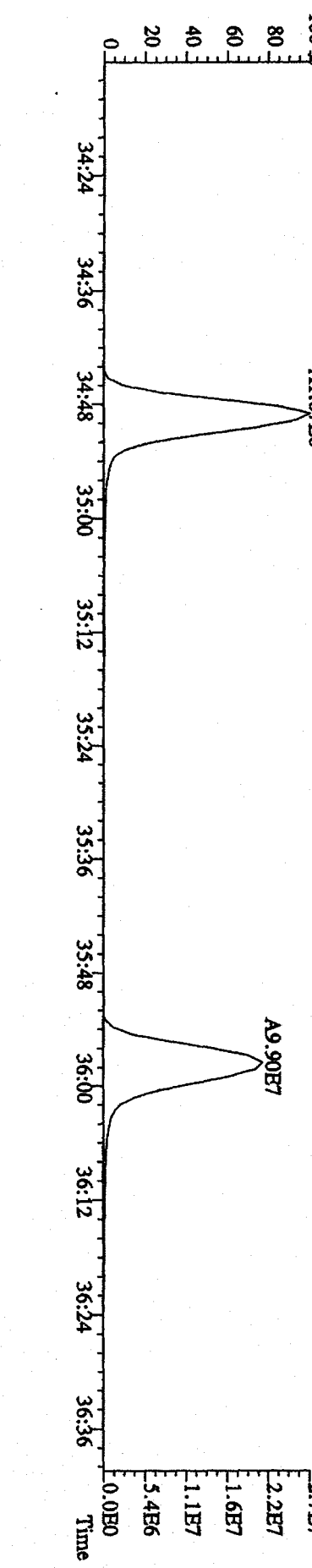
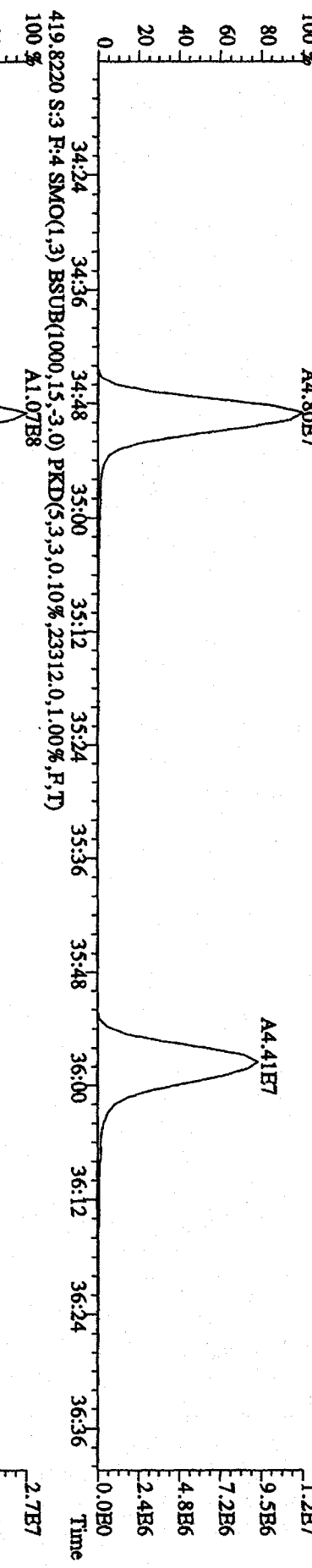
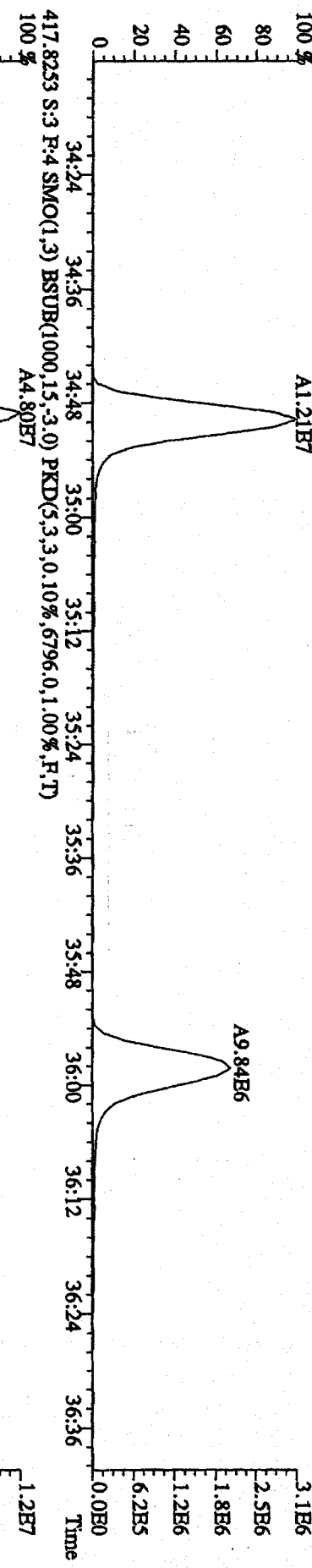
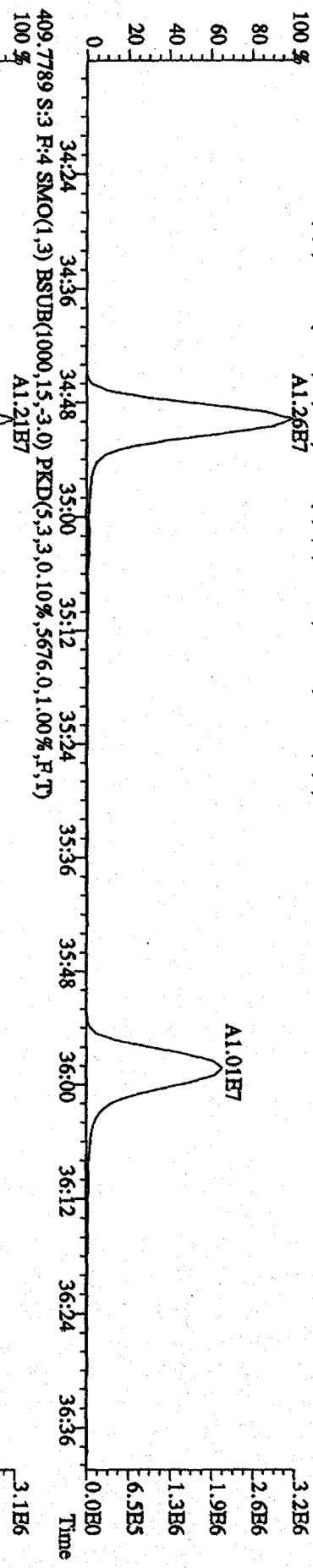
385.8610 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4516.0,1.00%,F,T)
 100%



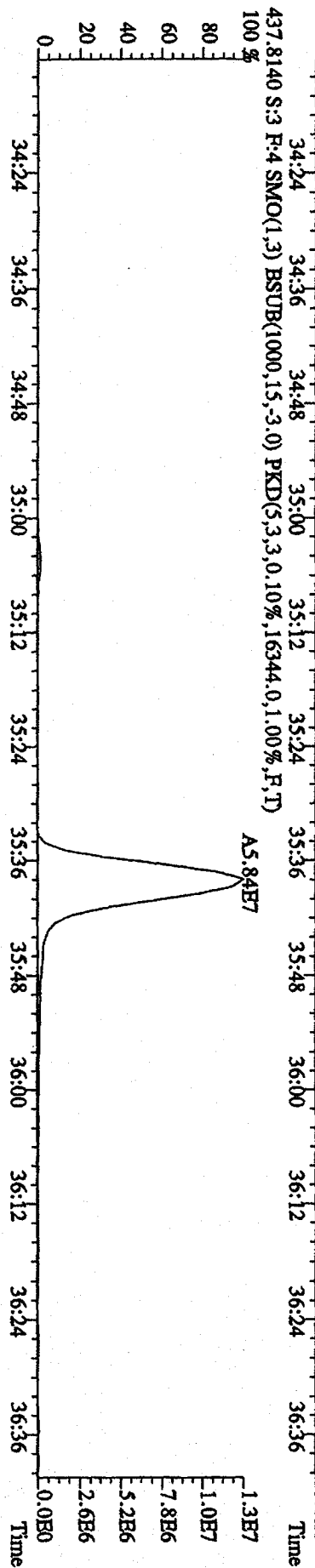
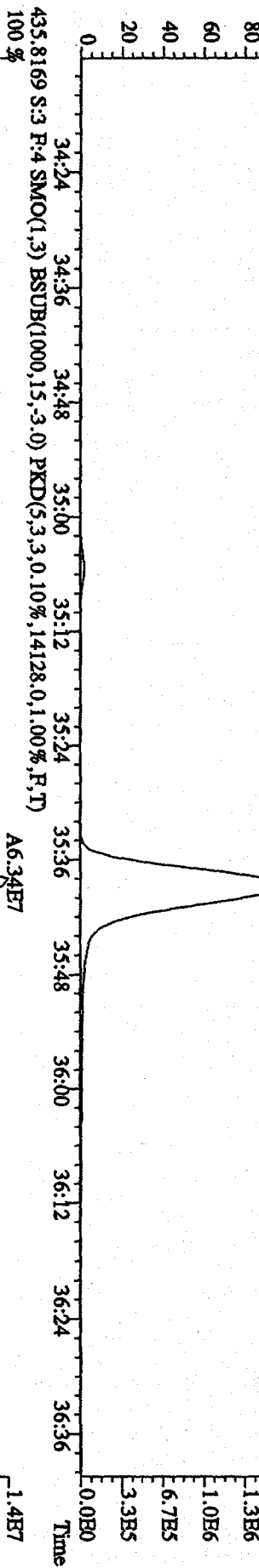
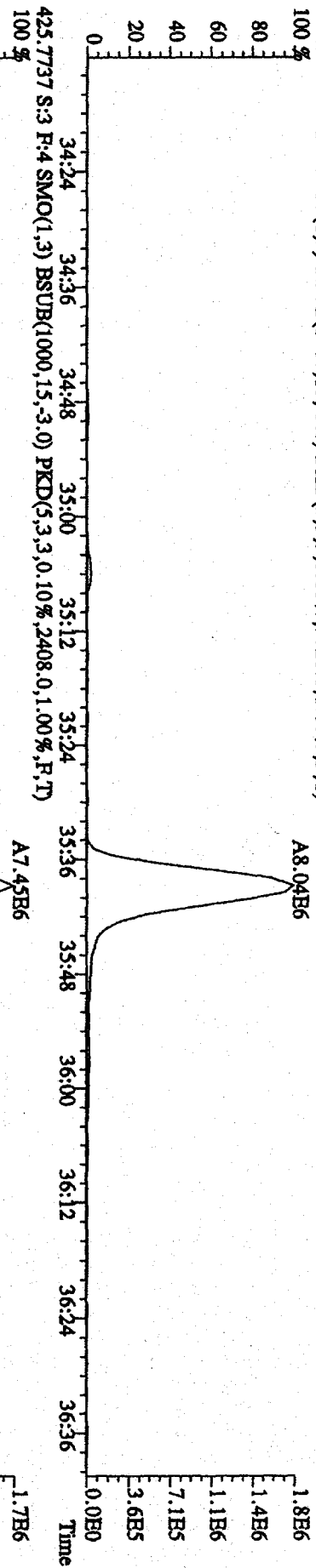
File: 16SE094D5 #1-295 Acq:17-SEP-2009 00:15:26 GC EI+ Voltage SIR Autospec-UltimaR
 Sample#3 Text:ST0916A :CS-2 09DXN237 Exp:DIOXIN
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,560,0,1,00%,F,T) 100%



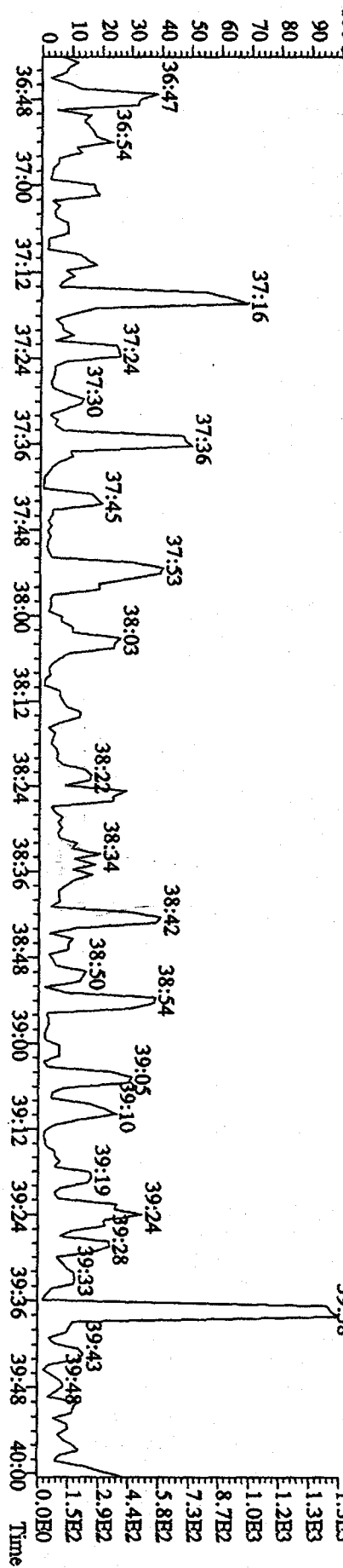
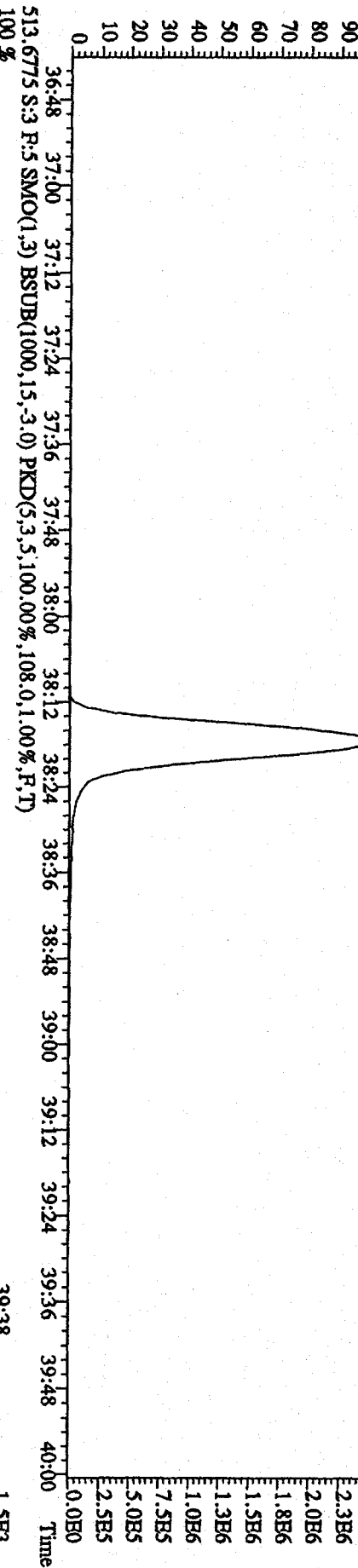
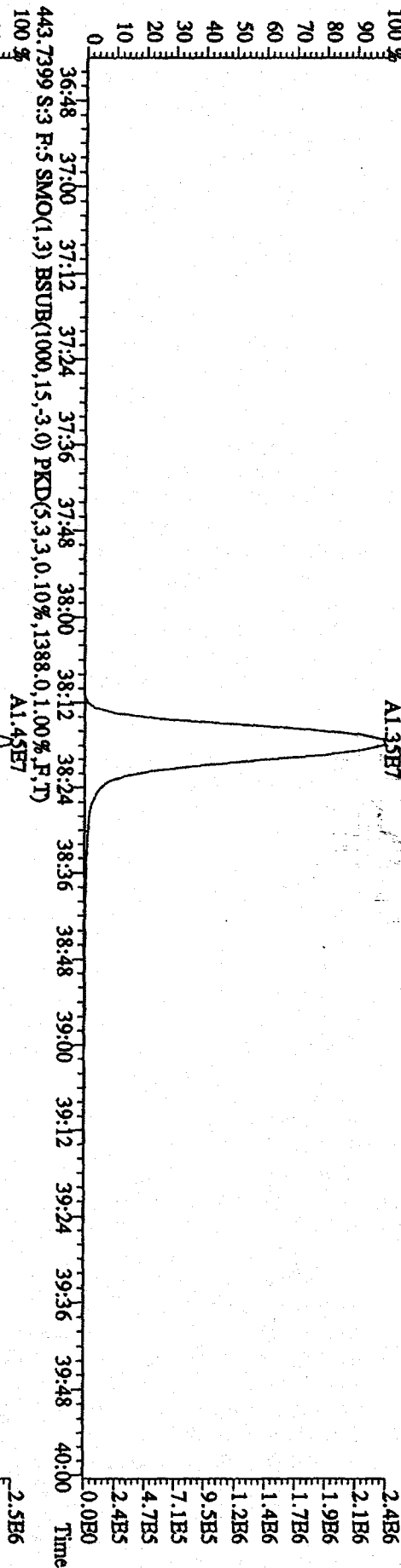
File:16SIB094D5 #1-198 Acq:17-SEP-2009 00:15:26 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:ST0916A :CS-2 09DXN237 Exp:DIOXIN
 407.7818 S:3 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,8268.0,1.00%,F,T)
 100%



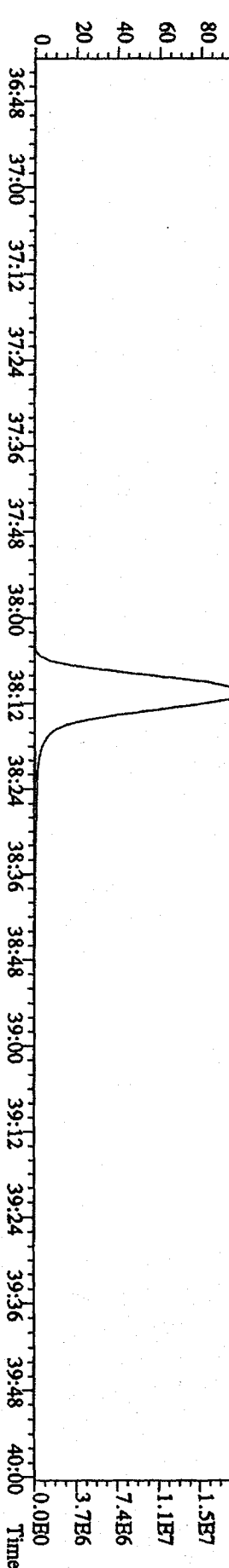
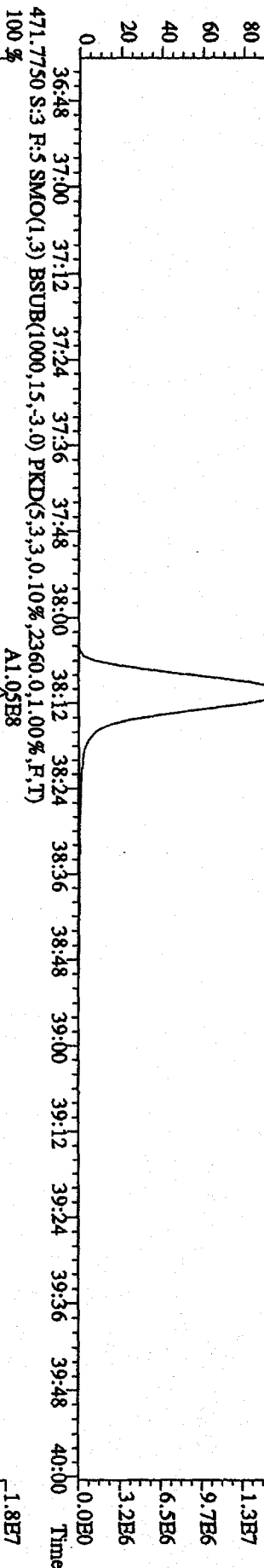
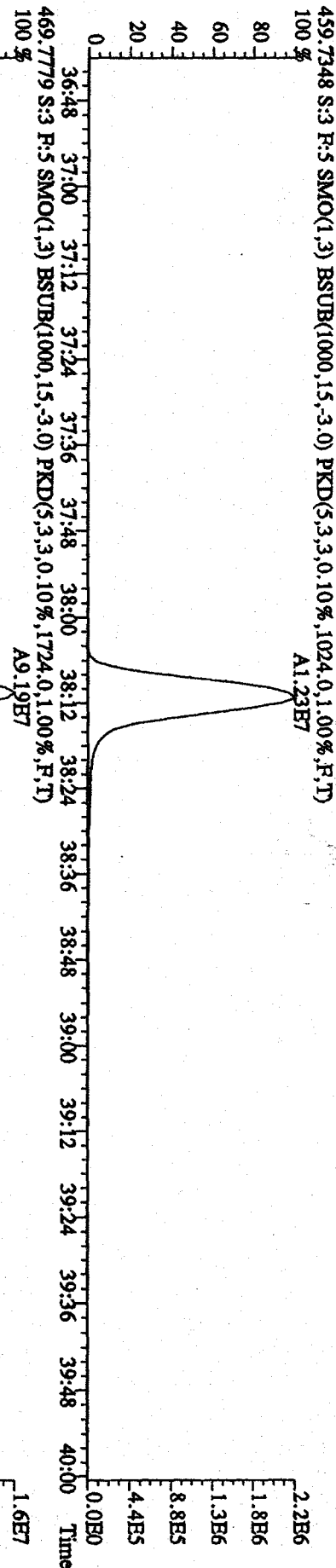
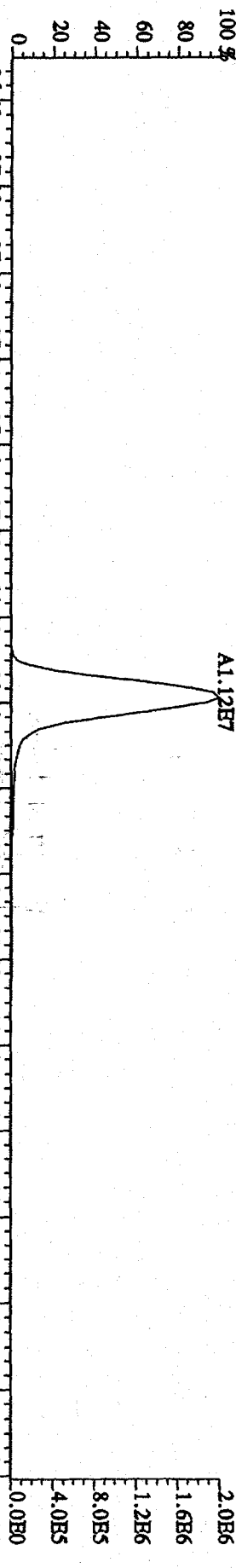
File: 16SBE094D5 #1-198 Acq: 17-SEP-2009 00:15:26 GC EI + Voltage SIR Autospec-Ultima8
 Sample#3 Text: ST0916A :CS-2 09DXN237 Exp: DIOXIN
 423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3528.0,1.00%,F,T) 100%



File:16SE094D5 #1-268 Acq:17-SEP-2009 00:15:26 GC HI + Voltage SIR Autospec-Ultimate
 Sample#3 Text:ST0916A :CS-2 09DXN237 Exp:DIOXIN
 441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,720,0,1,00%,F,T)
 A1.35E7



File:16SEB094D5 #1-268 Acq:17-SEP-2009 00:15:26 GC HF+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:ST0916A :CS-2 09DXNZ37 Exp:DIOXIN
 457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1228,0,1,00%,F,T) A1.12E7

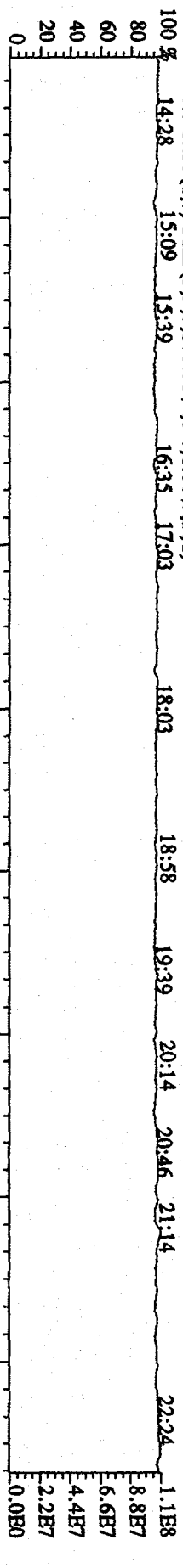


File: 165E094D5 #1-601 Acq: 17-SEP-2009 00:15:26 GC EI+ Voltage SIR Autospec-Ultima8

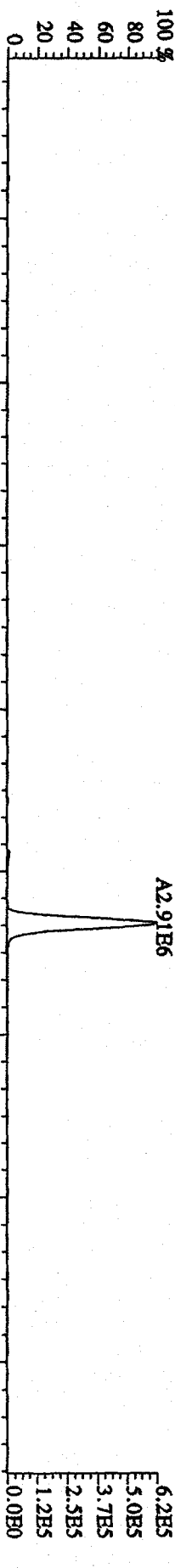
Sample#3 Texu:ST0916A :CS-2 09DXN237 Exp:DIOXIN

292.9825 S:3 SMO(1.3) PKD(5.3,5.100.00%,0.0,1.00%,F,T)

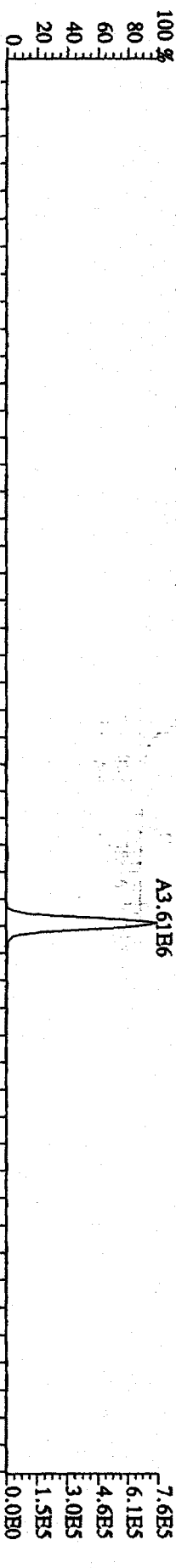
100% 14:28 15:09 15:39 16:35 17:03



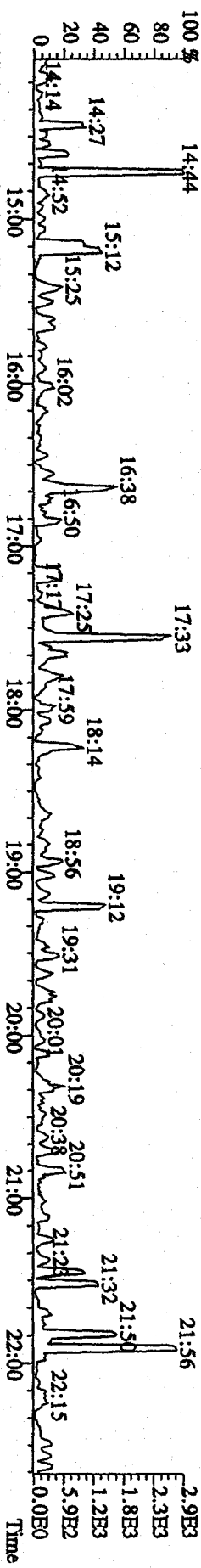
303.9016 S:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,616.0,1.00%,F,T)



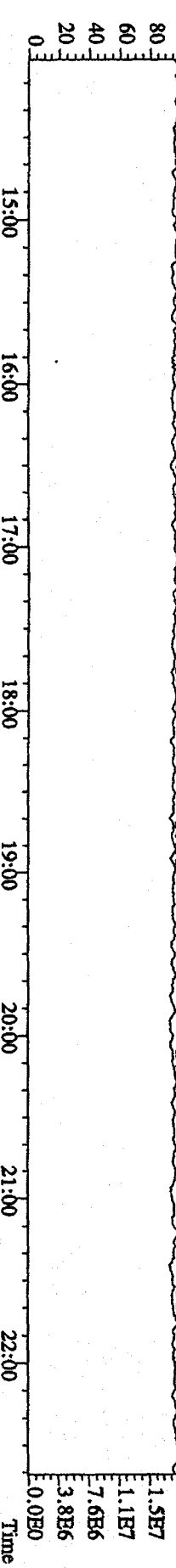
305.8987 S:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,1548.0,1.00%,F,T)



375.8364 S:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.100.00%,208.0,1.00%,F,T)

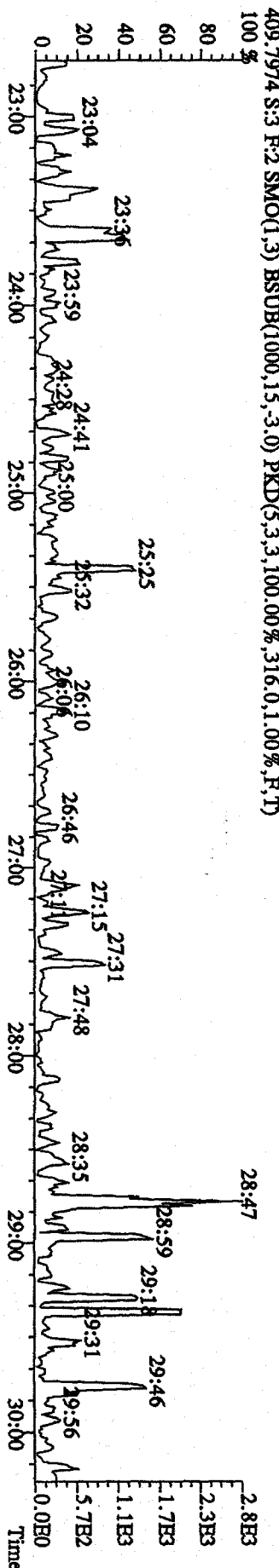
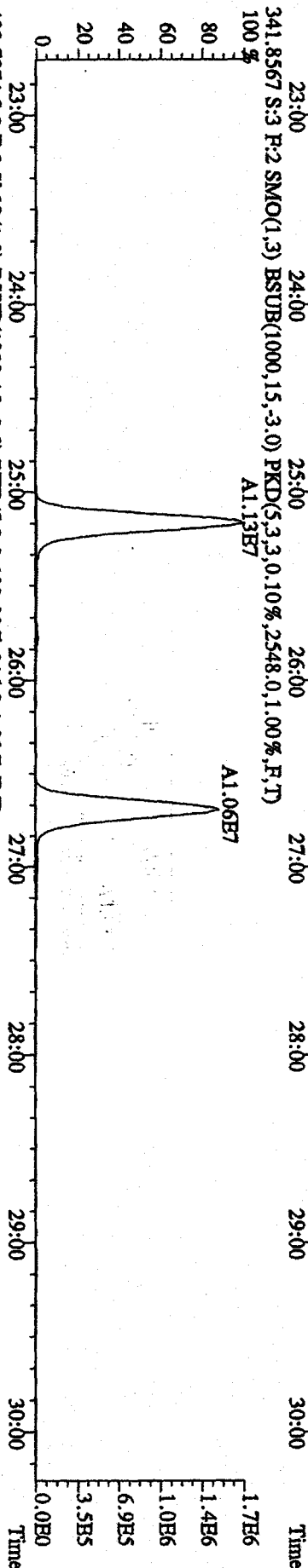
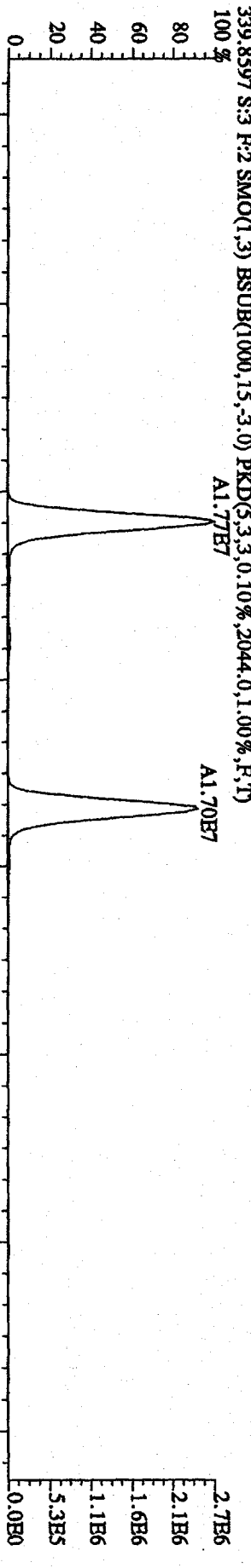
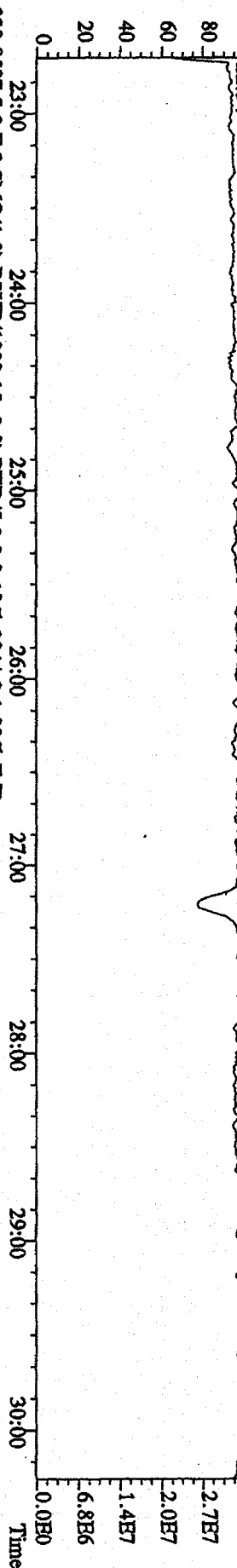


330.9792 S:3 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)



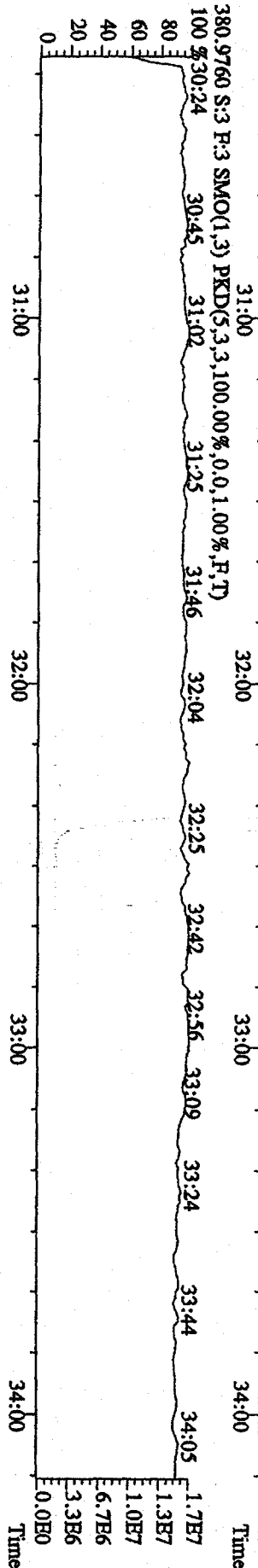
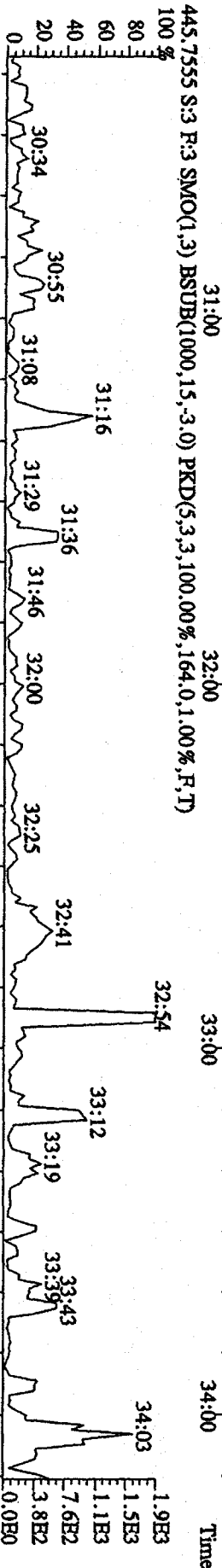
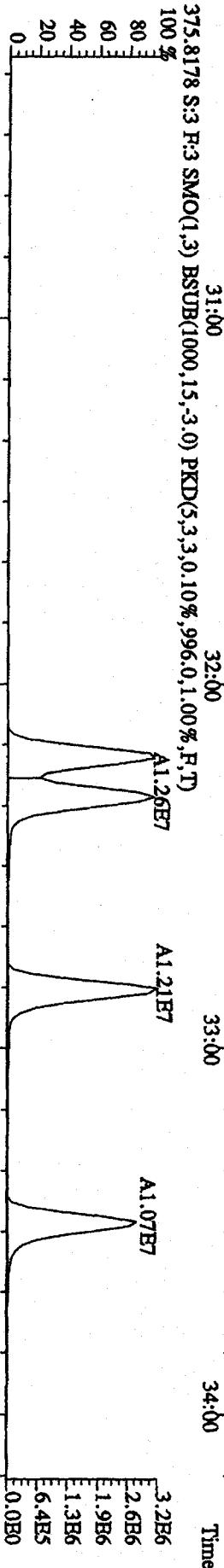
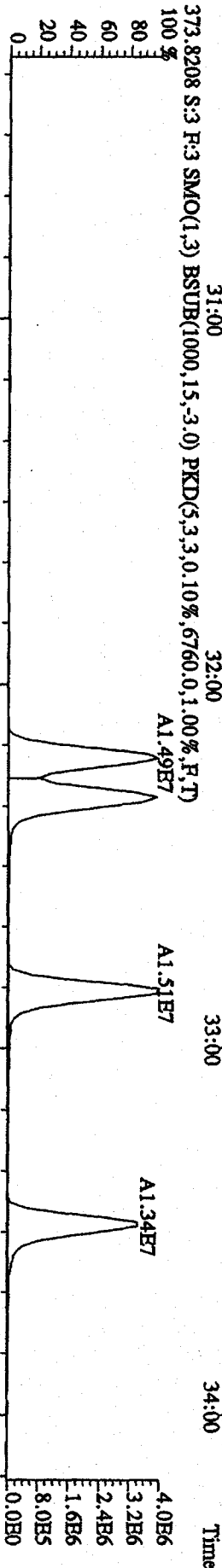
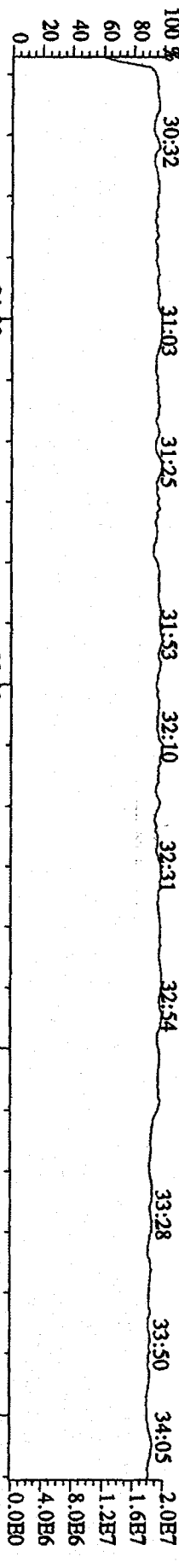
File: 16SBE094D5 #1-603 Acq: 17-SEP-2009 00:15:26 GC HI + Voltage SIR Autospec-UltimaB
 Sample#3 Text: ST0916A :CS-2 09DXN237 Exp: DIOXIN

342.9792 S:3 F:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00% F,T)
 100 % 22:54 23:19 24:13 25:02 25:33



File: 16SBE094D5 #1-295 Acq: 17-SEP-2009 00:15:26 GC HI+ Voltage SDR Autospec-Ultimah

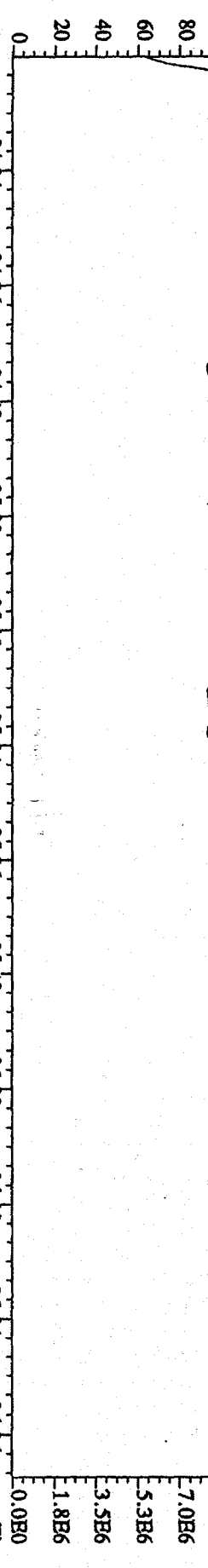
Sample#3 Text: ST0916A : CS-2 09DXN237 Exp: DIOXIN



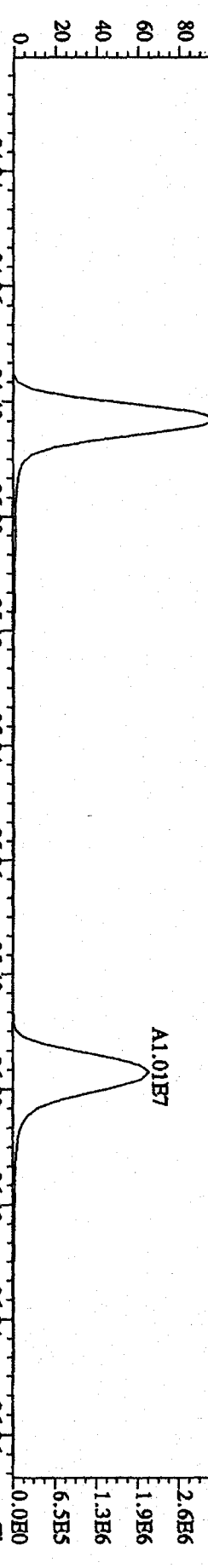
File: 16SE094D5 #1-198 Acq: 17-SEP-2009 00:15:26 GC EI + Voltage SIR Autospec-Ultimate

Sample#3 Text: ST0916A : CS-2 09DXN237 Exp: DIOXIN

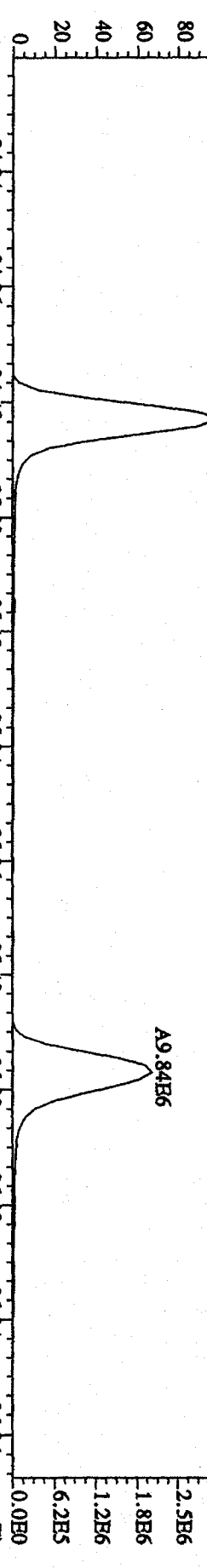
430.9728 S:3 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



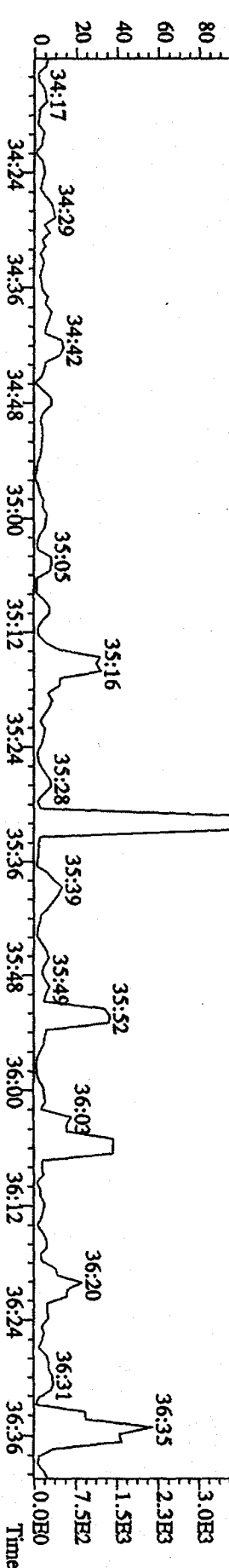
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8268,0,1,00%,F,T)



409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5676,0,1,00%,F,T)



479.7165 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,240,0,1,00%,F,T)



File: 16SB094D5 #1-268 Acq: 17-SEP-2009 00:15:26 GC HI + Voltage SIR Autospec-UtimaB

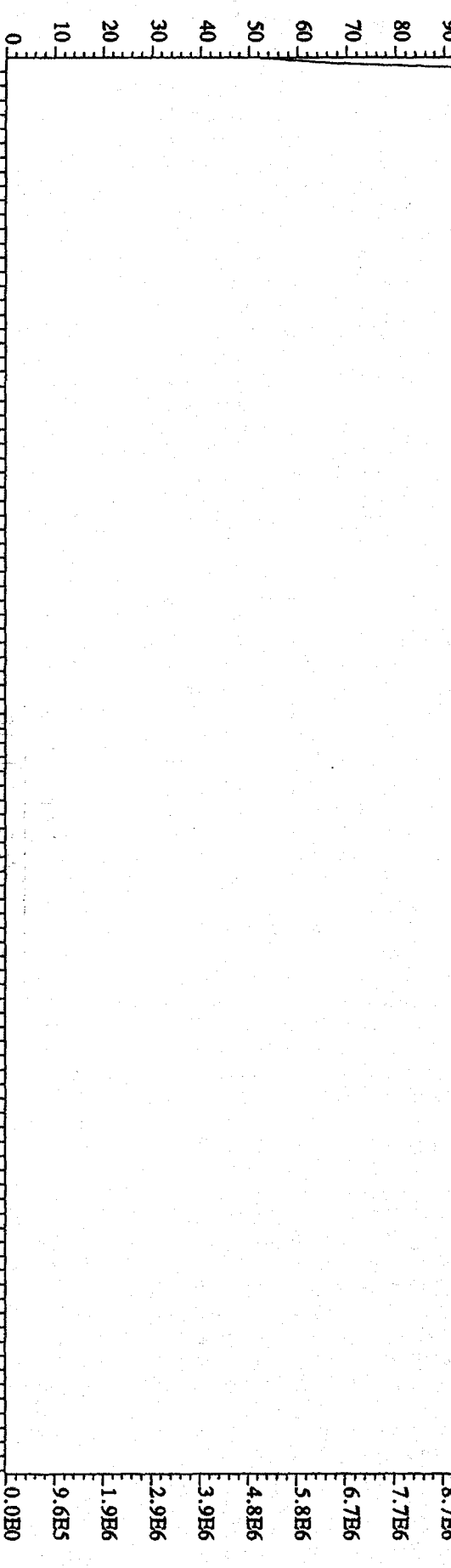
Sample#3 Text: ST0916A : CS-2,09DDXN237 Exp: DIOXIN

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

100 % 36:50 37:03 37:24 37:34 37:51 38:04

38:30 38:41 38:54 39:13 39:28 39:42

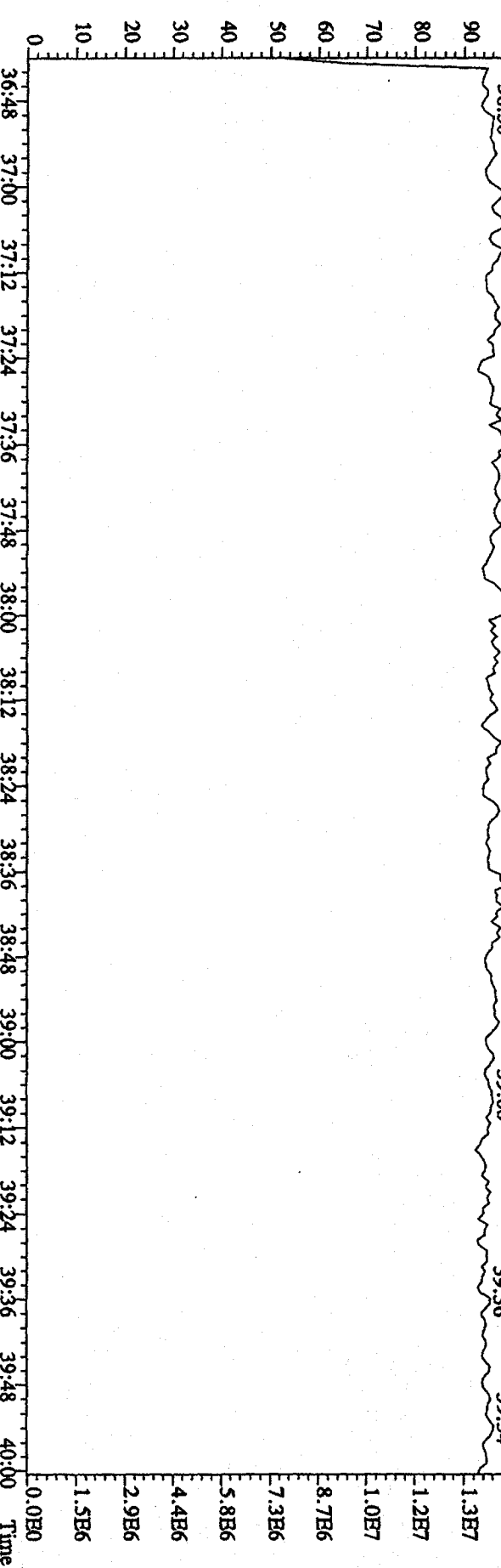
9.6E6



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

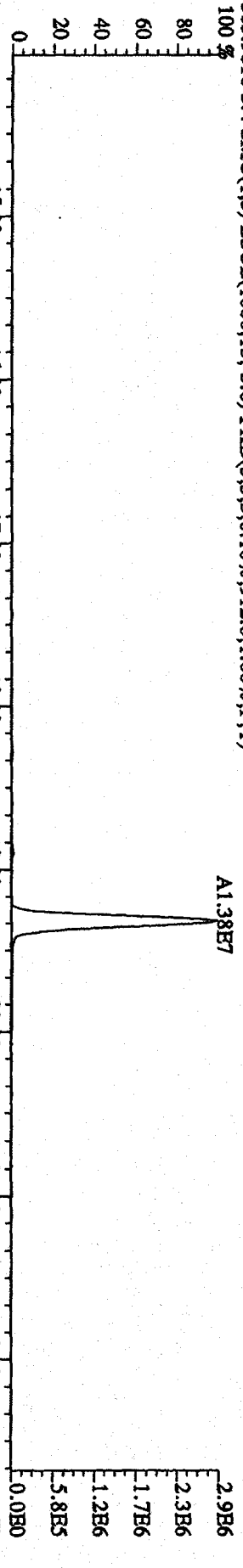
100 % 36:50 37:05 37:19 37:36 37:48 37:59 38:18 38:38 38:57 39:08 39:36 39:54

1.5E7

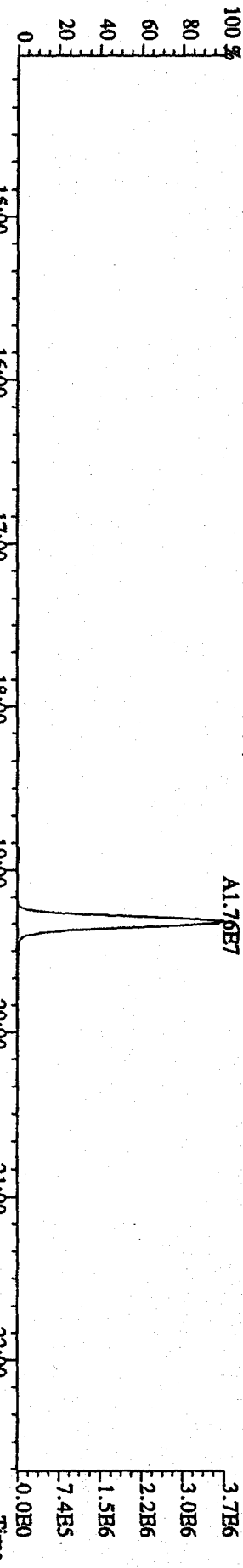


0.0E0
1.5E6
2.9E6
4.4E6
5.8E6
7.3E6
8.7E6
1.0E7
1.2E7
1.3E7
Time

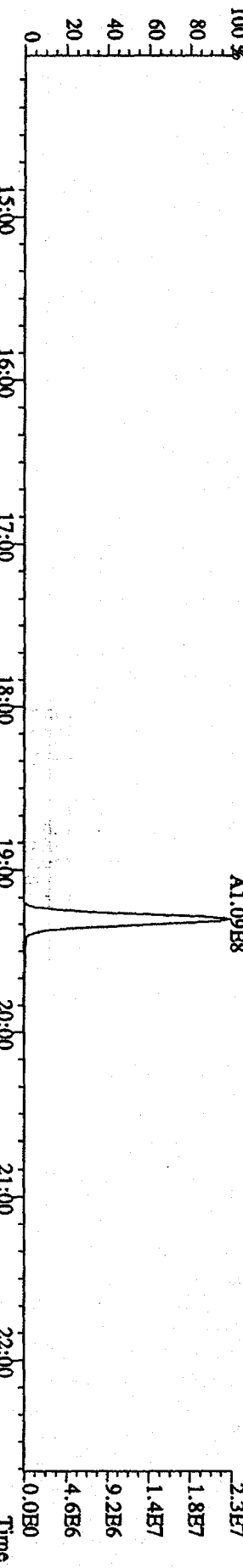
File: 16SEB094D5 #1-601 Acq: 17-SEP-2009 00:59:28 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text: ST0916B :CS-3 09DXN238 Exp: DIOXIN
 303.9016 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.912,0,1.00%,F,T)
 100%



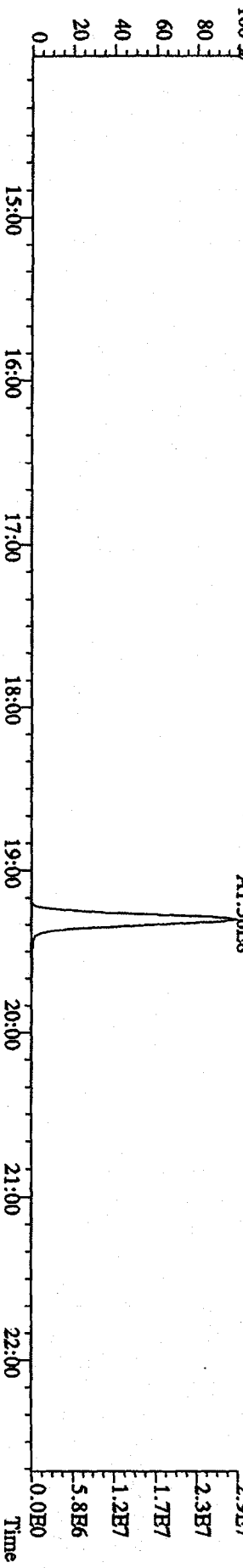
305.8987 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.2112,0,1.00%,F,T)
 100%



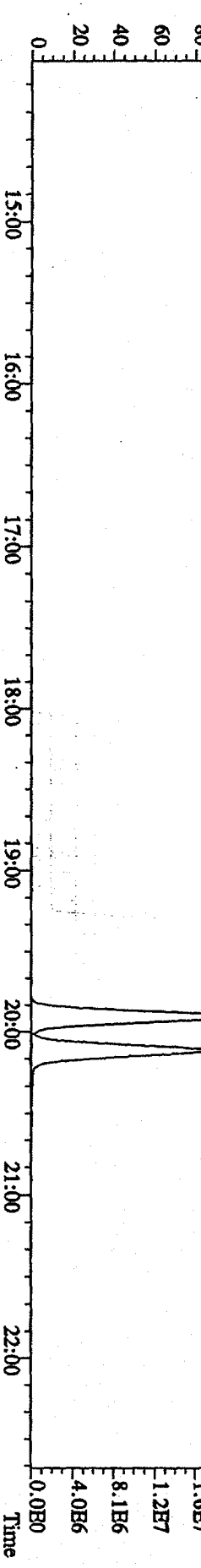
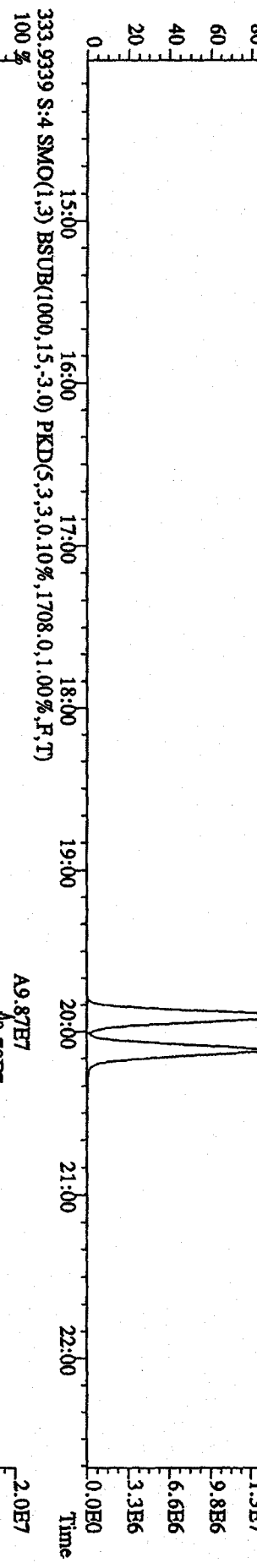
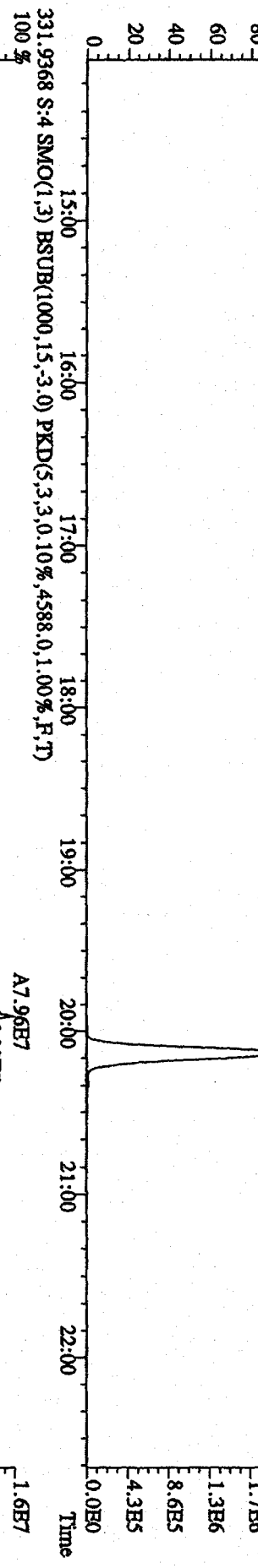
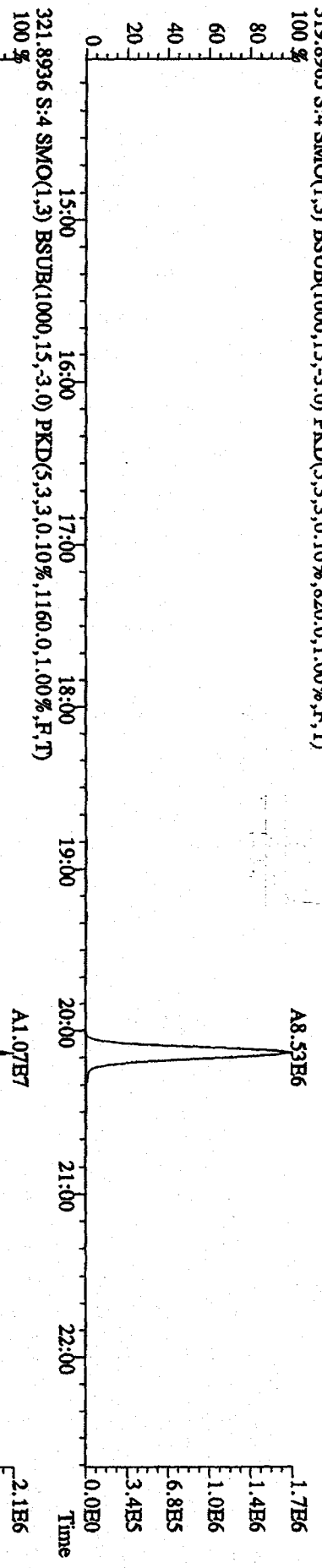
315.9419 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.3956,0,1.00%,F,T)
 100%



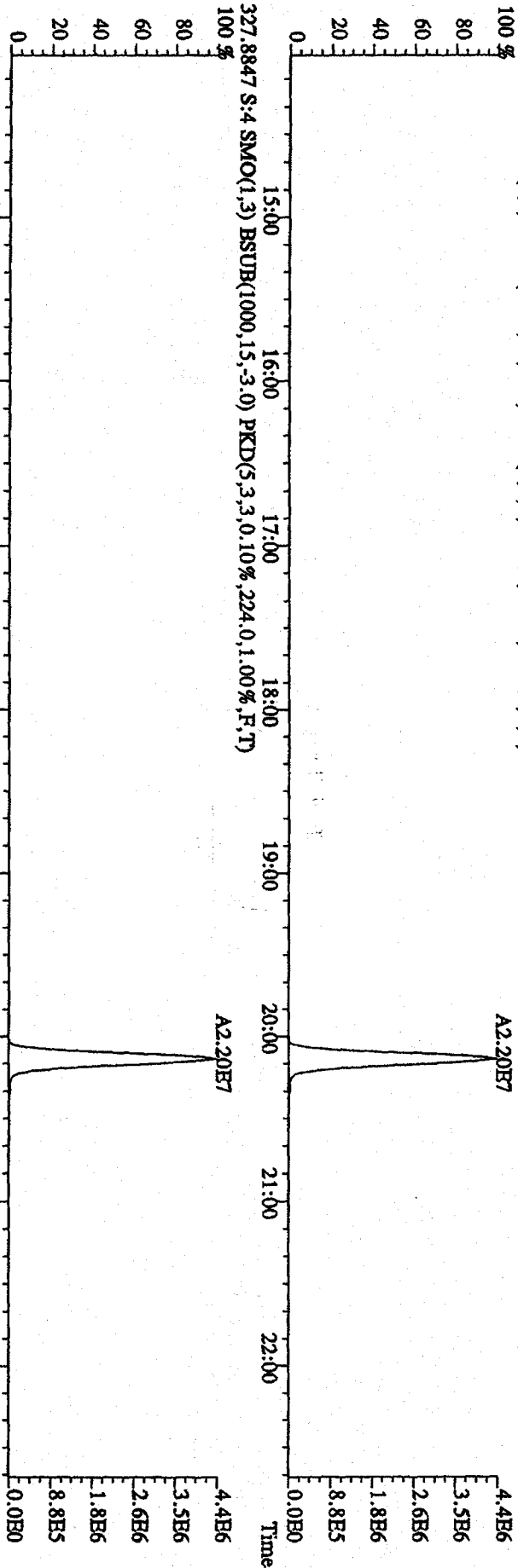
317.9589 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.3936,0,1.00%,F,T)
 100%



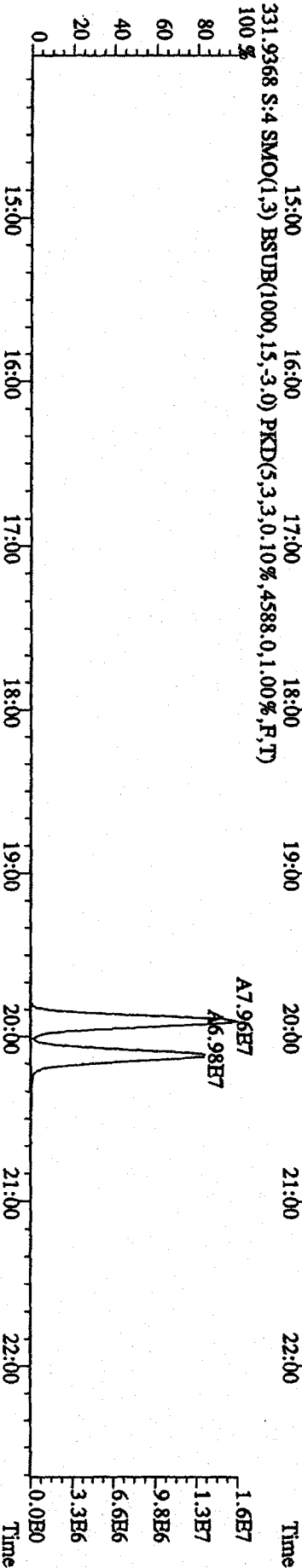
File: 16SE094D5 #1-601 Acq: 17-SEP-2009 00:59:28 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text: ST0916B :CS-3 09DXN238 Exp: DIOXIN
 319.8965 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,820.0,1.00%,F,T)



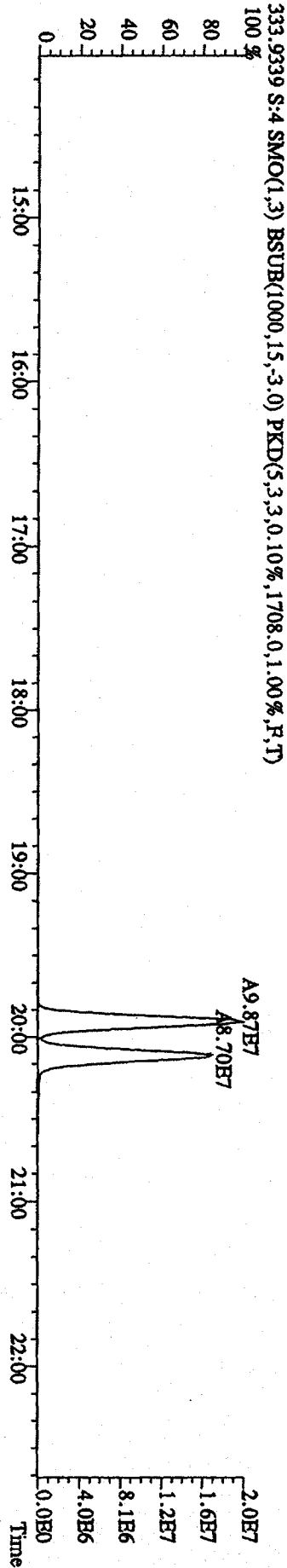
File:16SE094D5 #1-601 Acq:17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Test:ST0916B :CS-3 09DXN238 Exp:DIOXIN
 327.8847 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,224.0,1.00%,F,T)
 100%



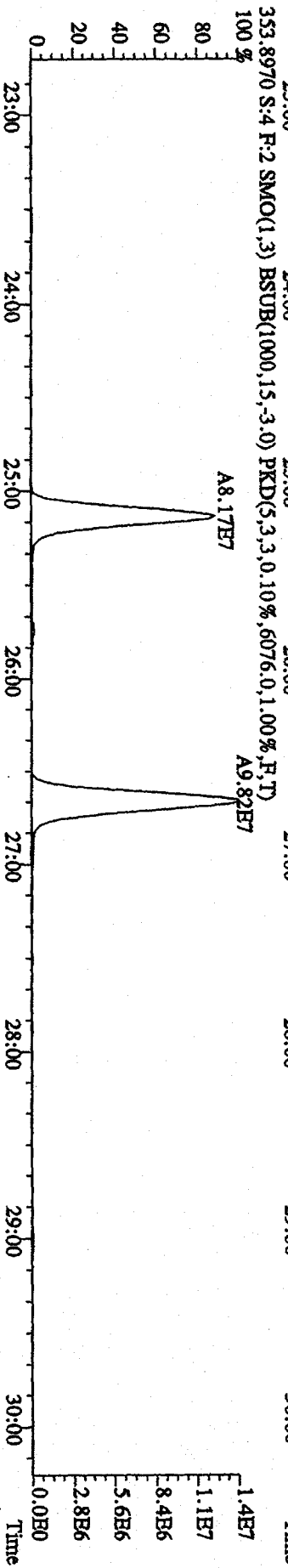
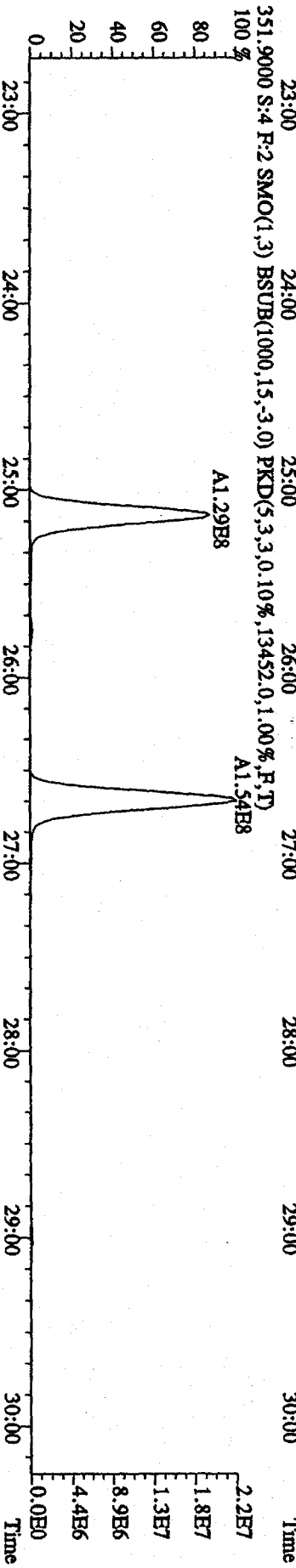
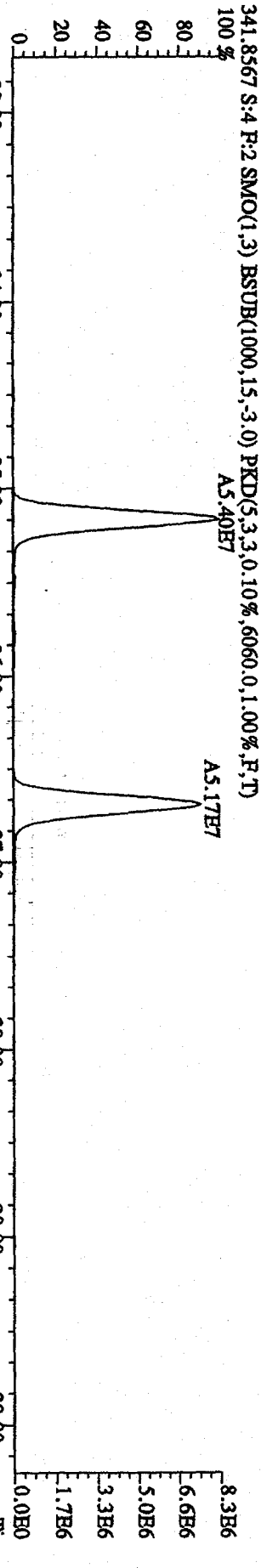
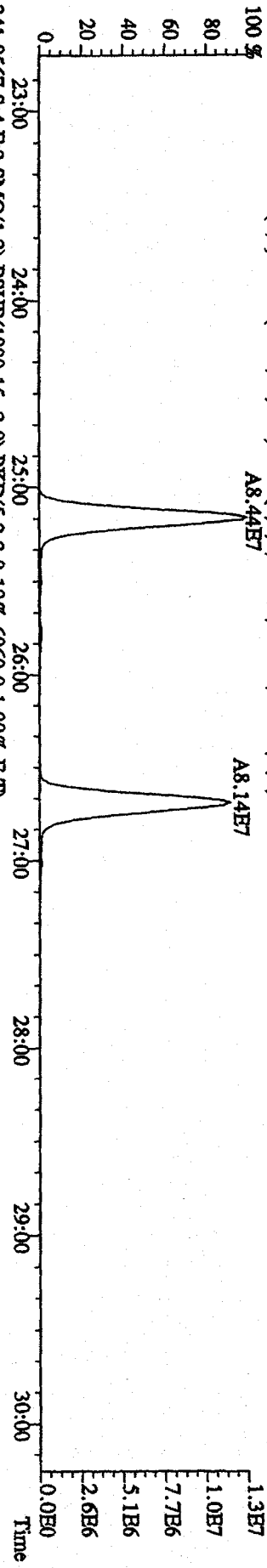
331.9368 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4588.0,1.00%,F,T)
 100%



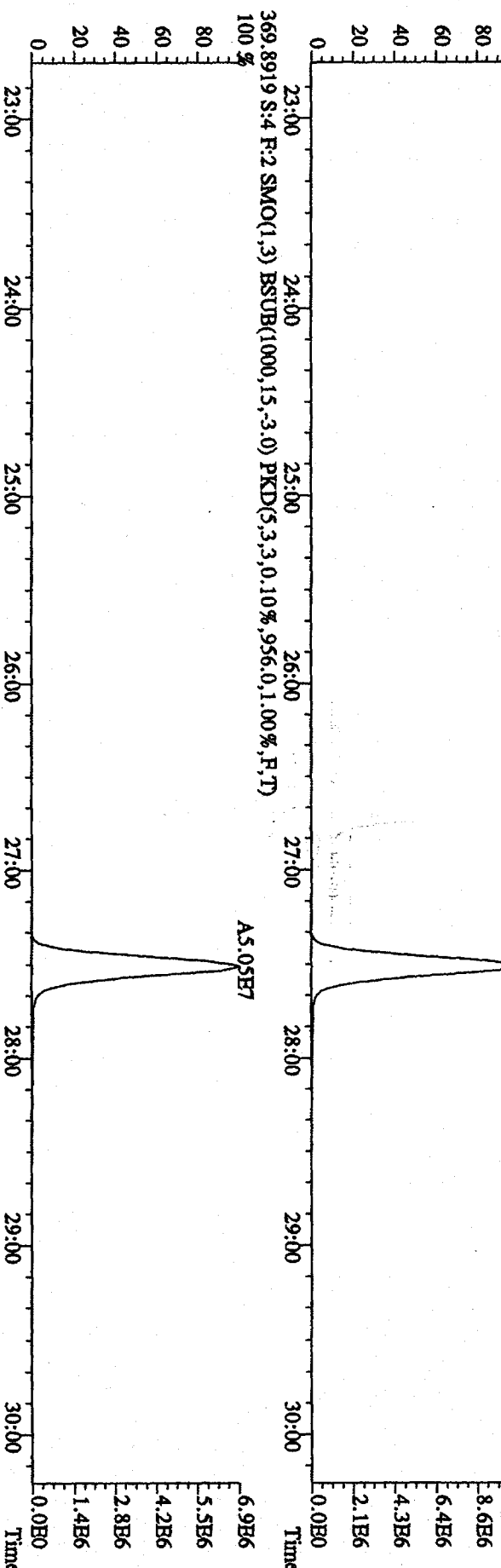
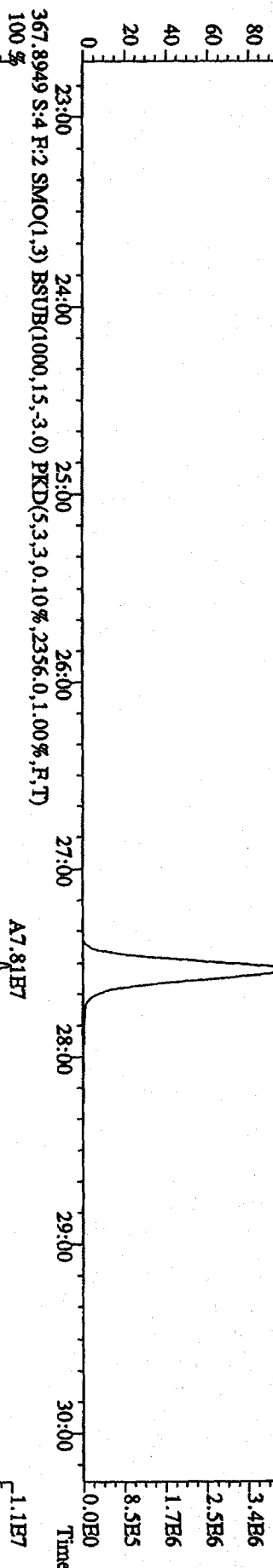
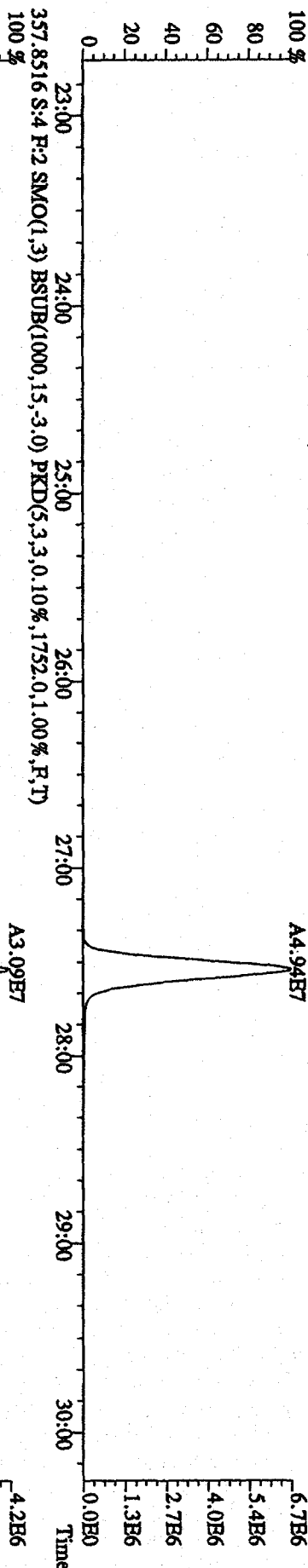
333.9339 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1708.0,1.00%,F,T)
 100%



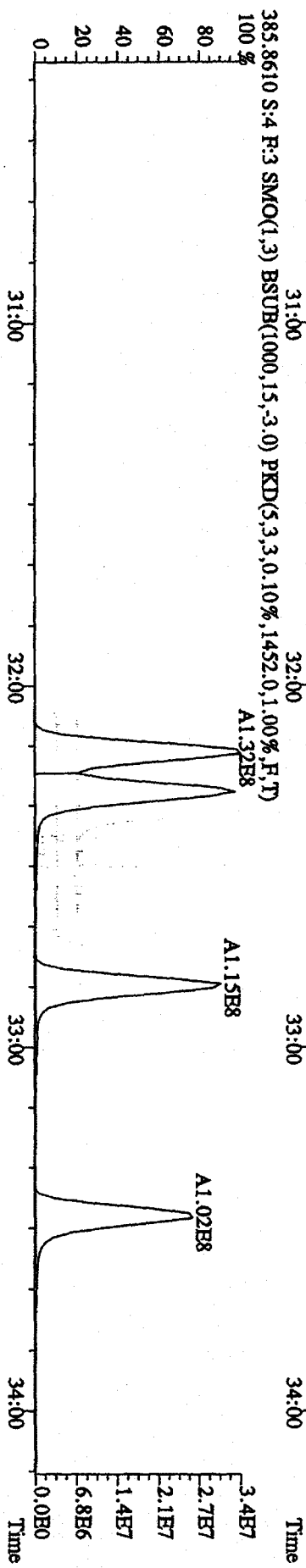
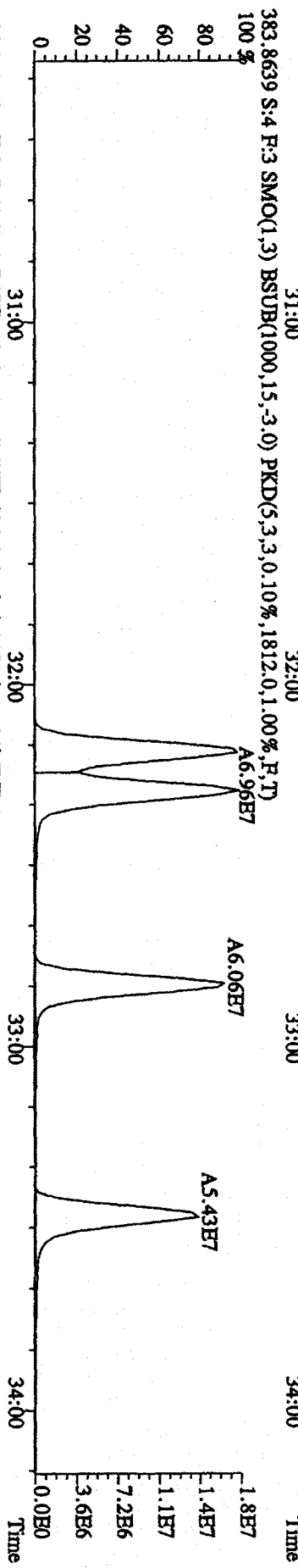
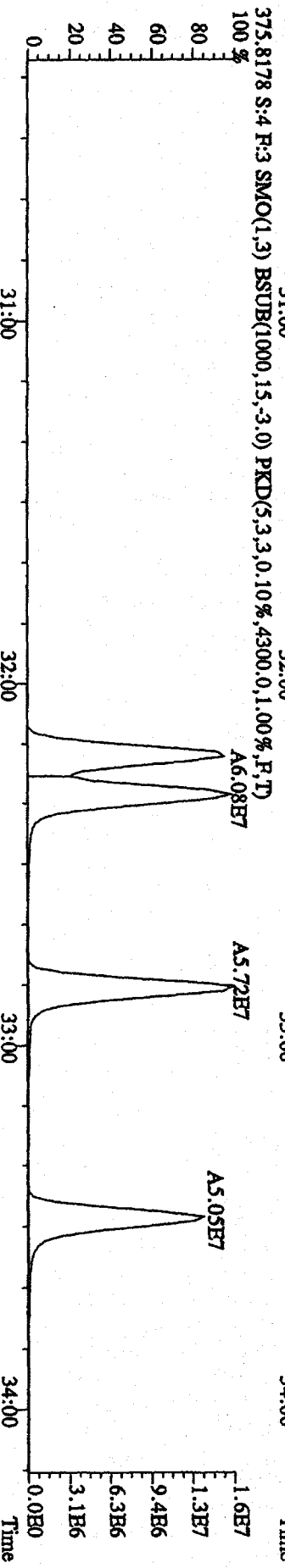
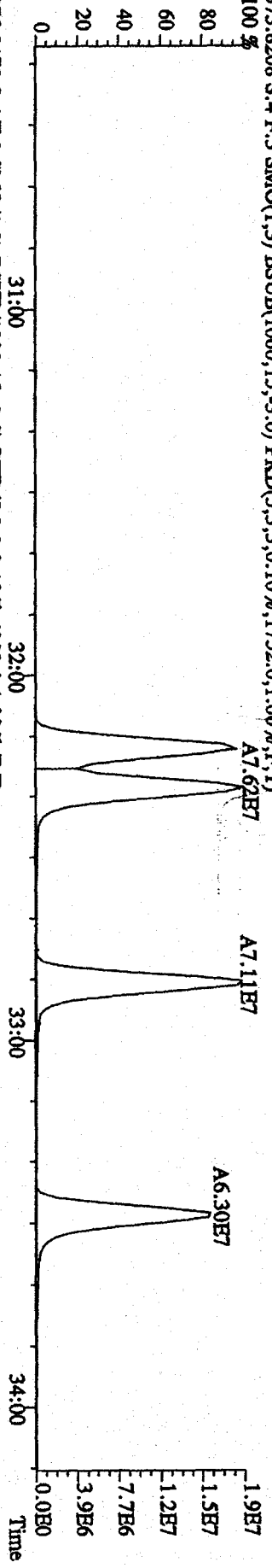
File: ISEB094D5 #1-603 Acq: 17-SEP-2009 00:59:28 GC EI + Voltage SIR Autospec-Ultimate
 Sample#4 Text: ST0916B : CS-3 09DXN238 Exp: DIOXIN
 339 8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5356,0,1,00%,F,T)
 100%



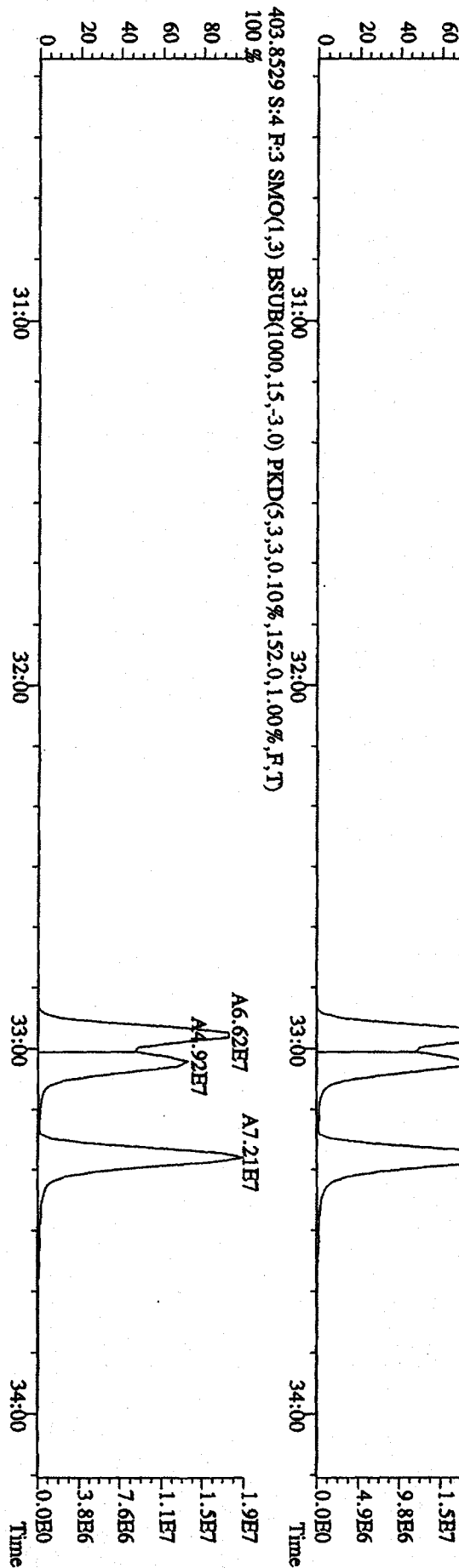
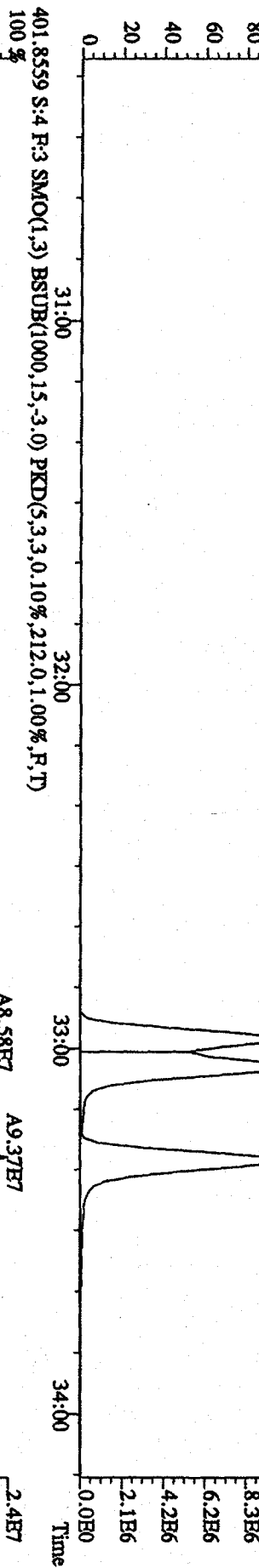
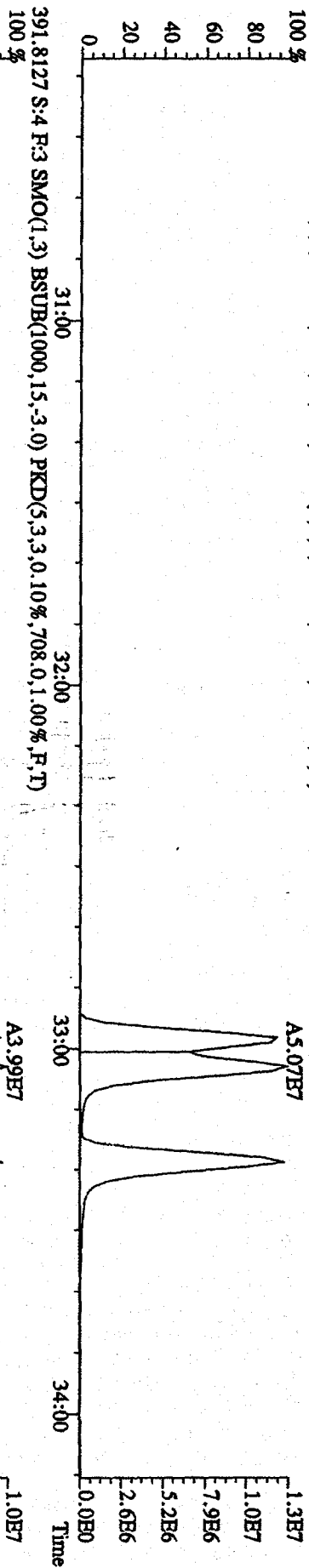
File:16SE094D5 #1-603 Acq:17-SEP-2009 00:59:28 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:ST0916B :CS-3 09DXN238 Exp:DIOXIN
 355,8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3436,0,1,00%,F,T)
 100%



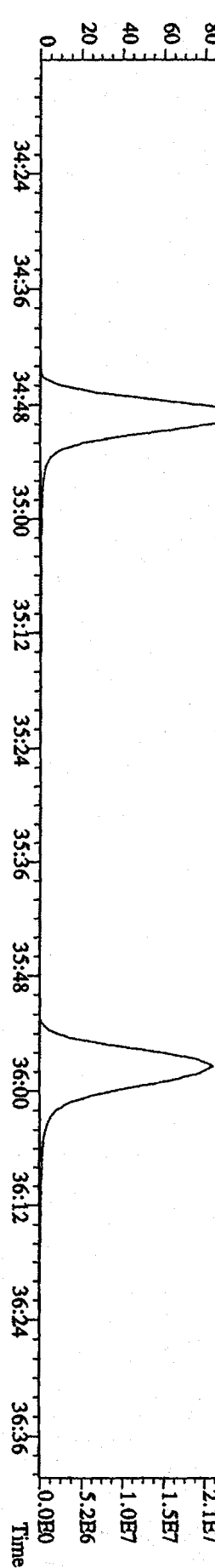
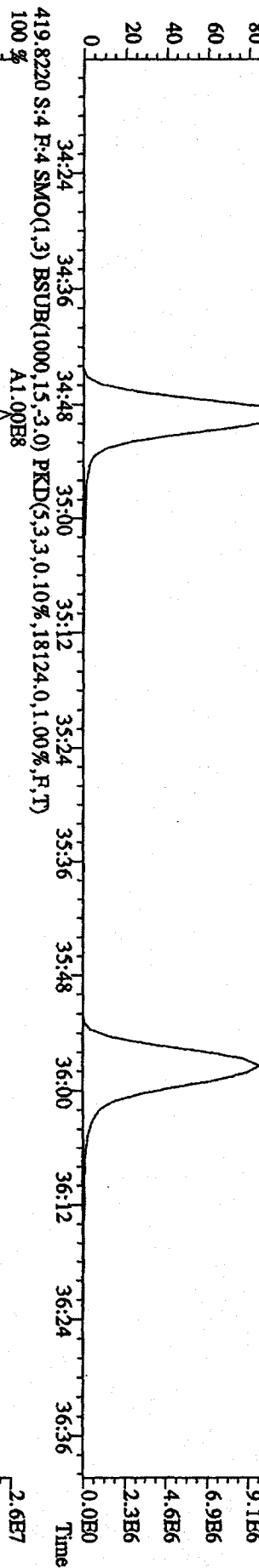
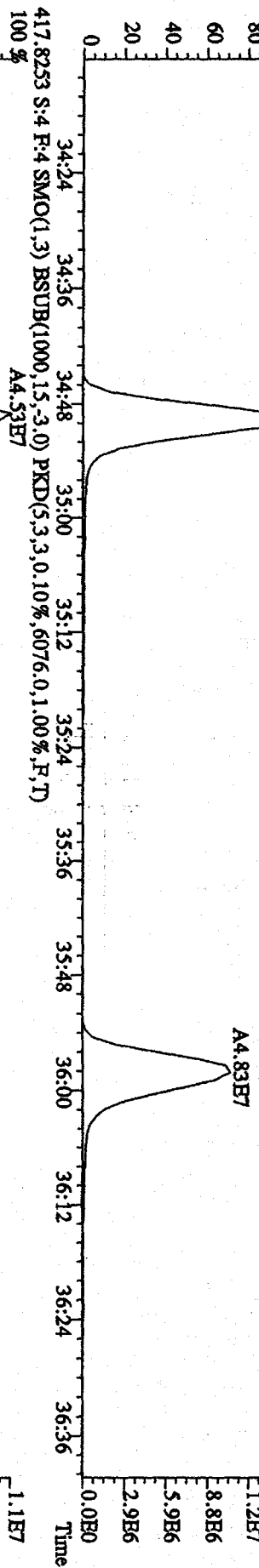
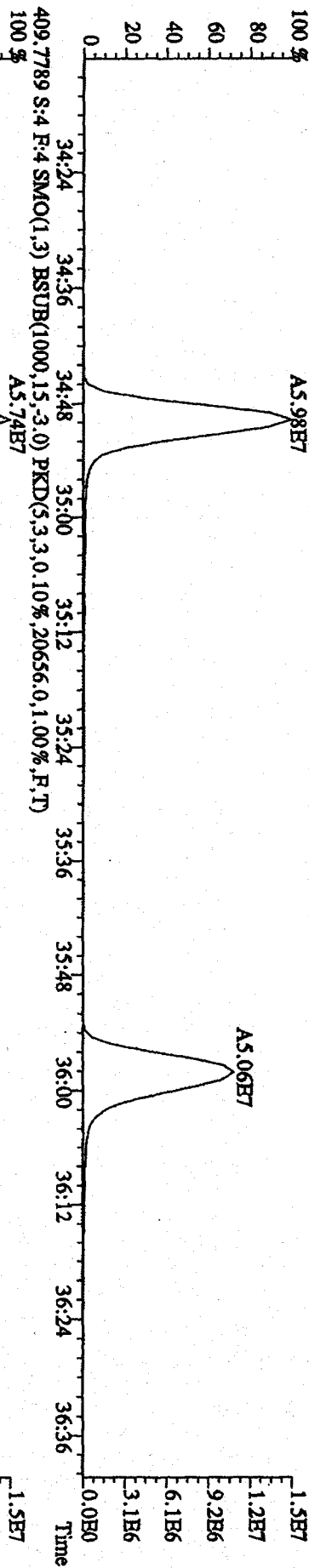
File: 16SE094D5 #1-295 Acq:17-SEP-2009 00:59:28 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0916B :CS-3 09DXN238 Exp:DIOXIN
 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1752,0,1,00%,F,T)
 100%



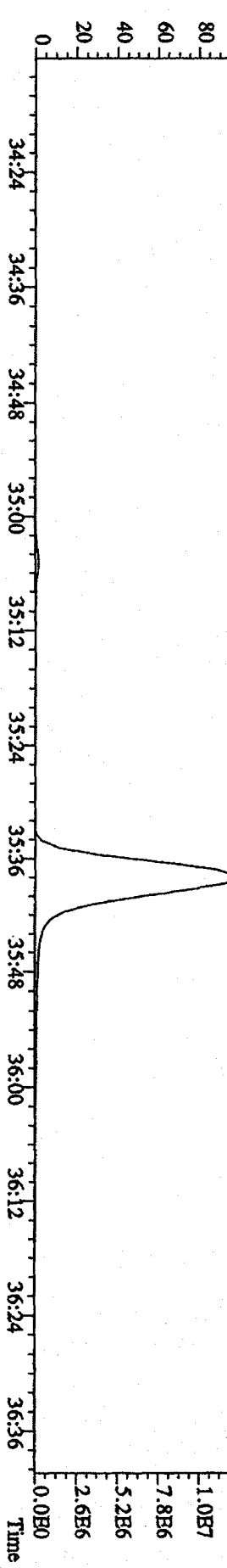
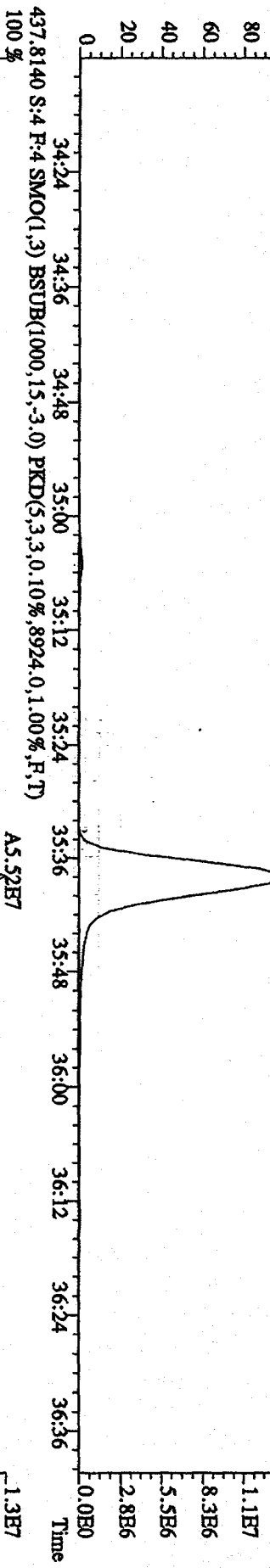
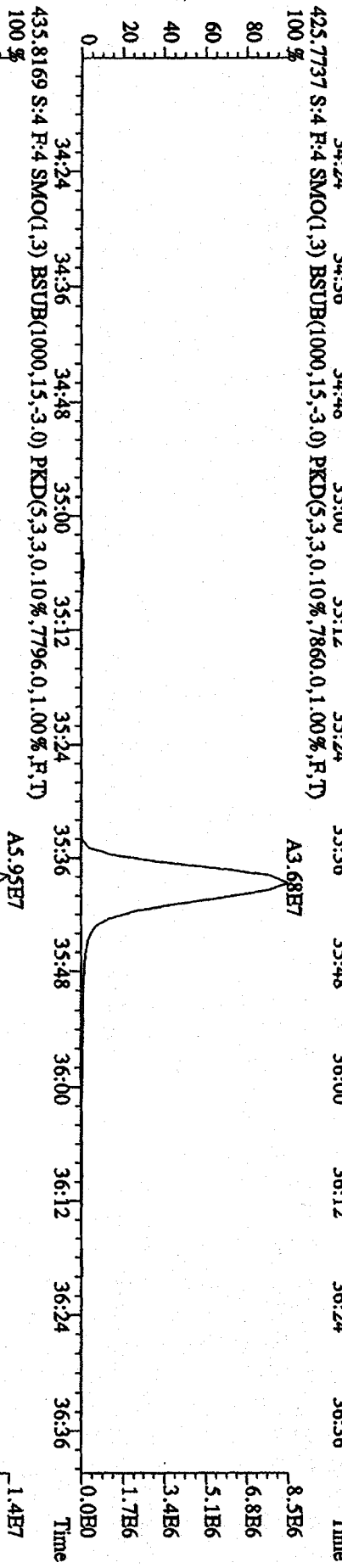
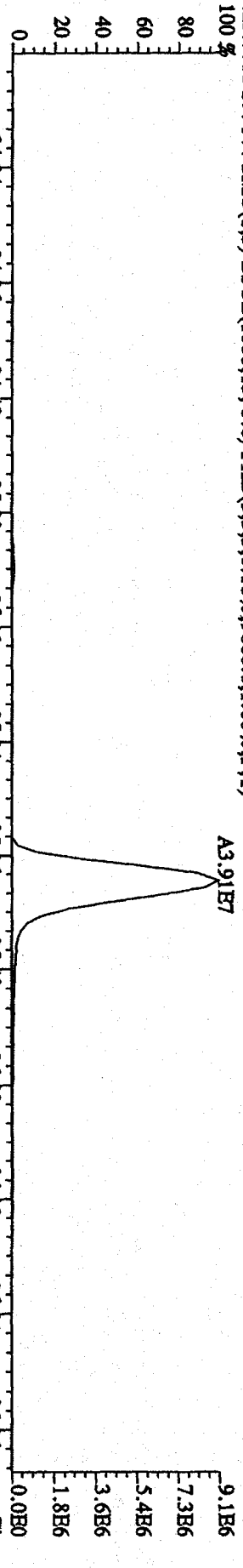
File:16SE094D5 #1-295 Acq:17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Test:ST0916B :CS-3 09DXN238 Exp:DIOXIN
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,228.0,1.00%,F,T)



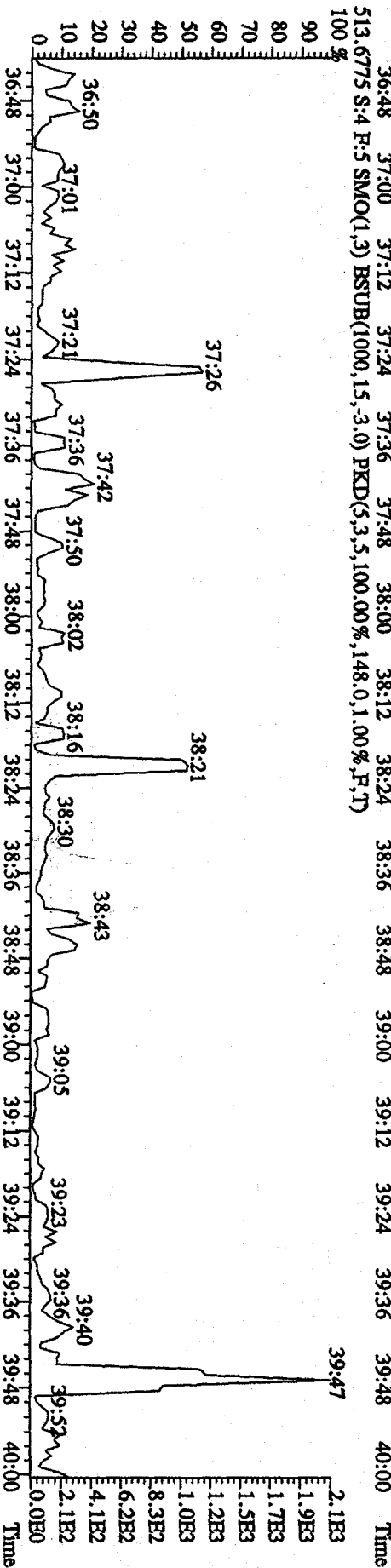
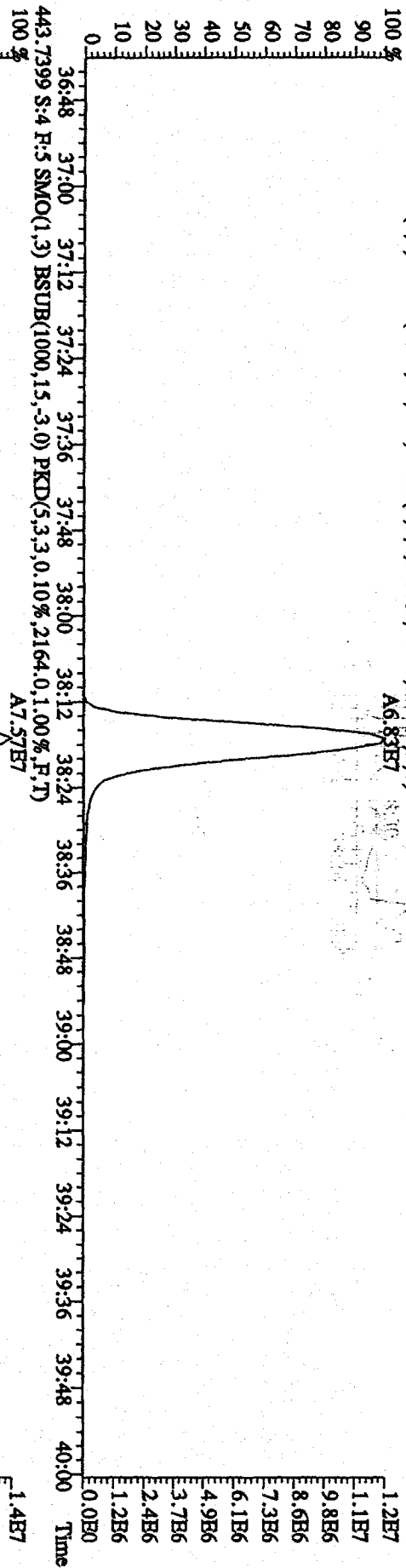
File: 16SBE094D5 #1-198 Acq: 17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec-Ultima8
 Sample#4 Text: ST0916B :CS-3 09DXN238 Exp: DIOXIN
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,22332,0.1,0.0%,F,T)
 100%



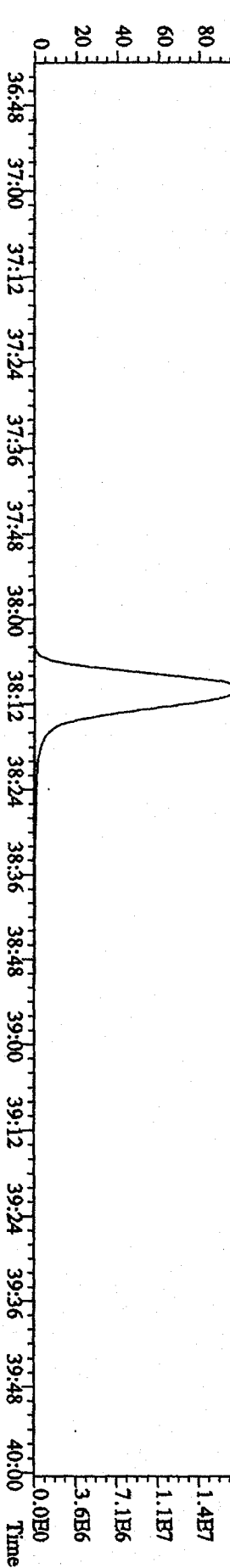
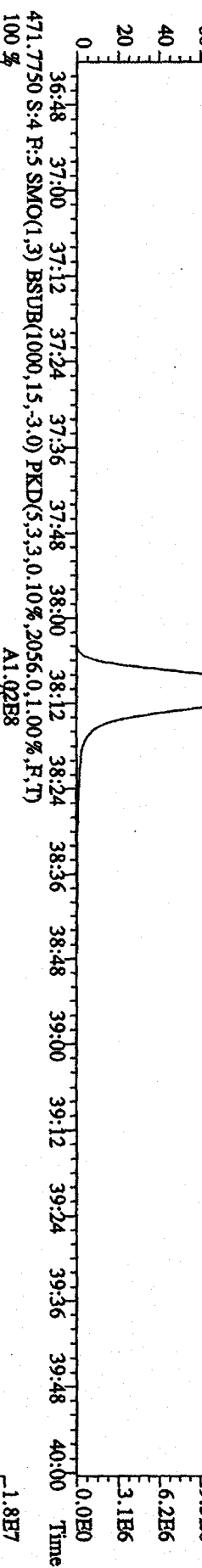
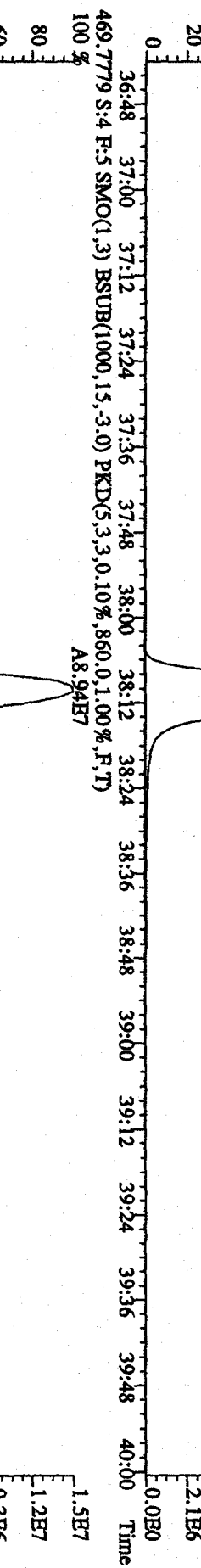
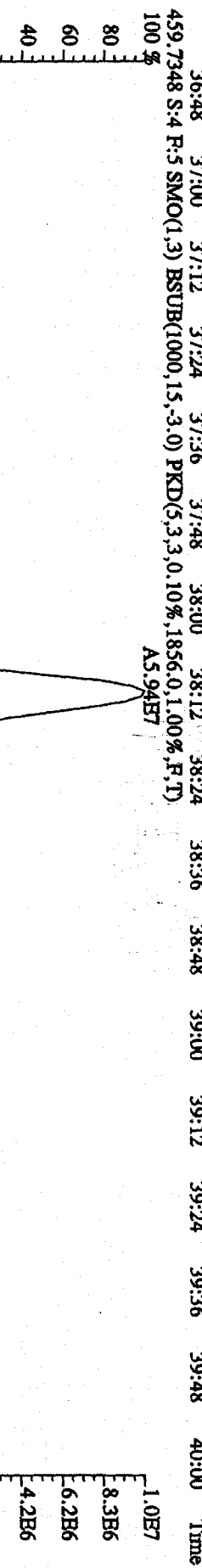
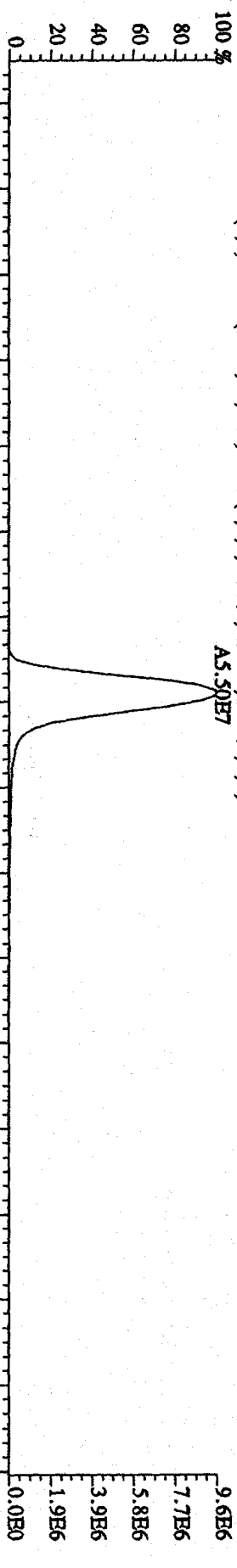
File:16SB09AD5 #1-198 Acq:17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec-Ultimah
 Sample#4 Text:ST0916B :CS-3 09DXN238 Exp:DIOXIN
 423.7766 S:4 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9680,0,1,00%,F,T)



File: 16SBE094D5 #1-268 Acq: 17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec: Ultimate
 Sample#4 Text: ST0916B :CS-3 09DXN238 Exp: DIOXIN
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%, 776.0,1.00% F,T) A6.83E7



File: 16SEB094D5 #1-268 Acq: 17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text: ST0916B :CS-3 09DXN238 Exp: DIOXIN
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1248,0,1,00%,F,T)
 100%



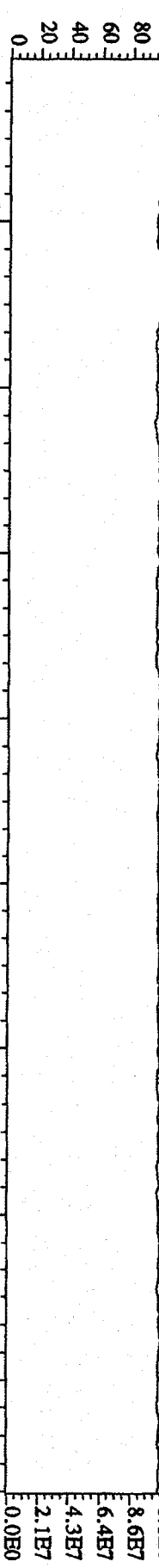
File:16SE094D5 #1-601 Acq:17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec-UHhmb

Sample#4 Tex:ST0916B :CS-3 09DXN238 Exp:DIOXIN

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

100 %

14:14 14:41 15:25 15:57 16:35 17:03 17:52 18:24 19:03 19:29 19:59 20:29 21:14 21:46 22:27



303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,912.0,1.00%,F,T)

A1.38E7

2.9E6



305.8987 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2112.0,1.00%,F,T)

A1.76E7

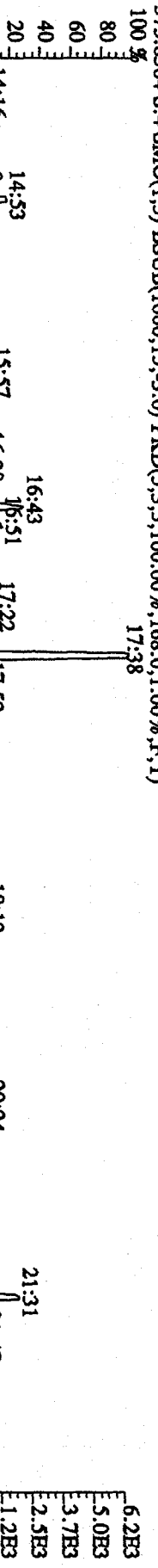
3.7E6



375.8364 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,168.0,1.00%,F,T)

17:38

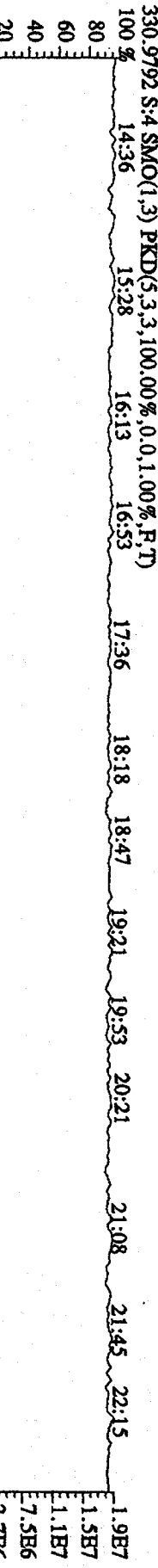
6.2E3



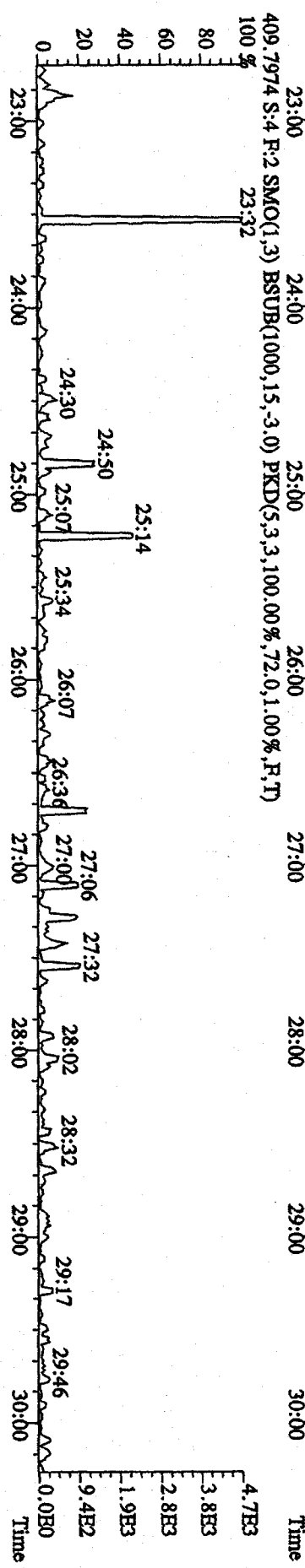
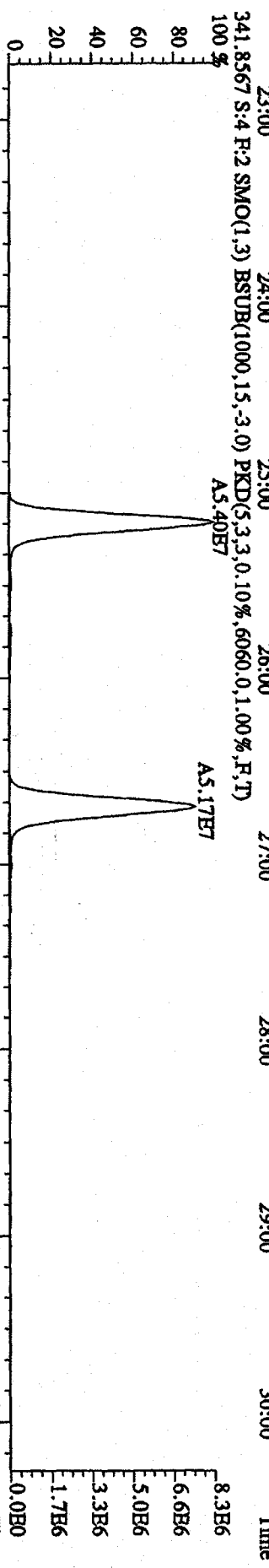
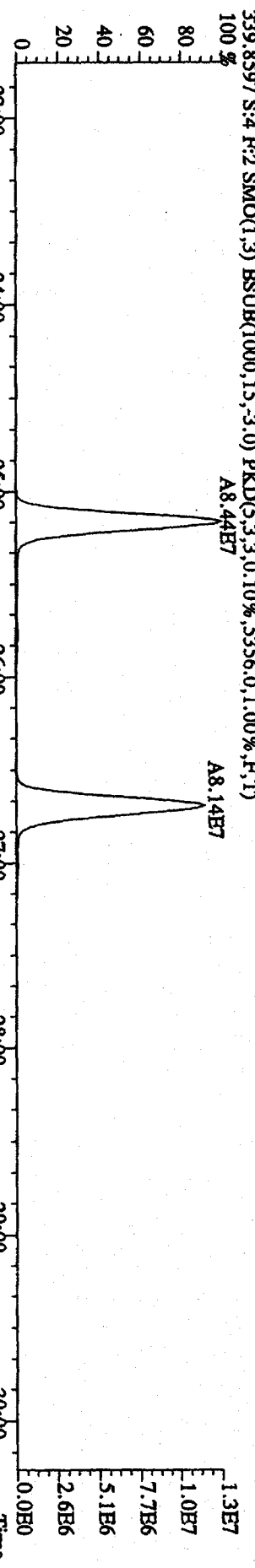
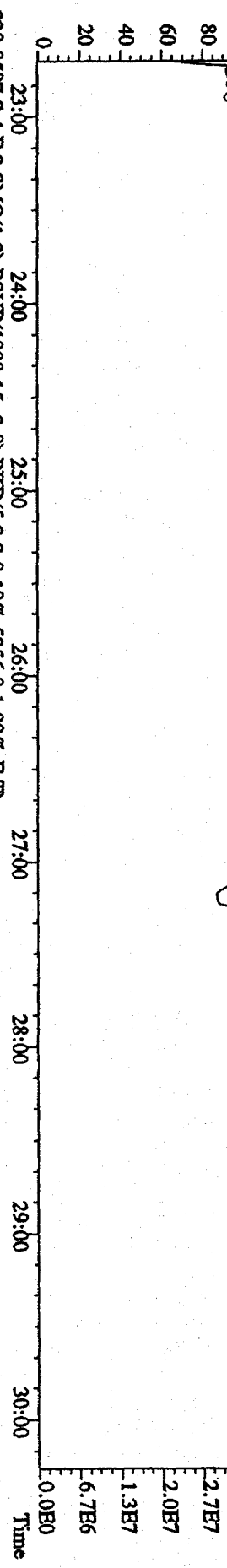
330.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

17:36

1.9E7



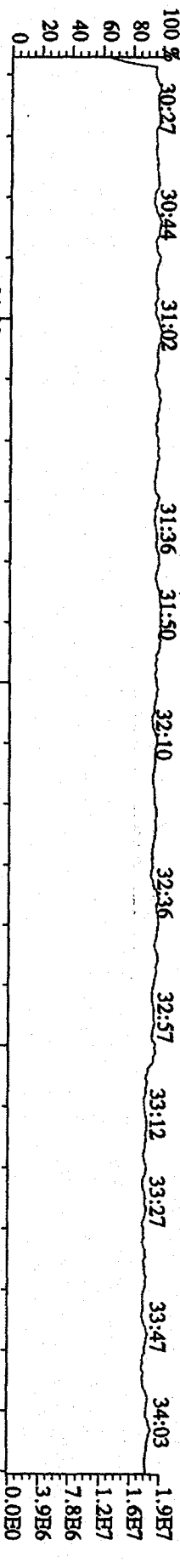
File:16SE094D5 #1-603 Acq:17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0916B :CS-3 09DXN238 Exp:DIOXIN
 342.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 23:16 23:48 24:25 25:06 25:38 26:03 26:31 26:55 27:43 28:11 28:38 29:06 29:39 30:04



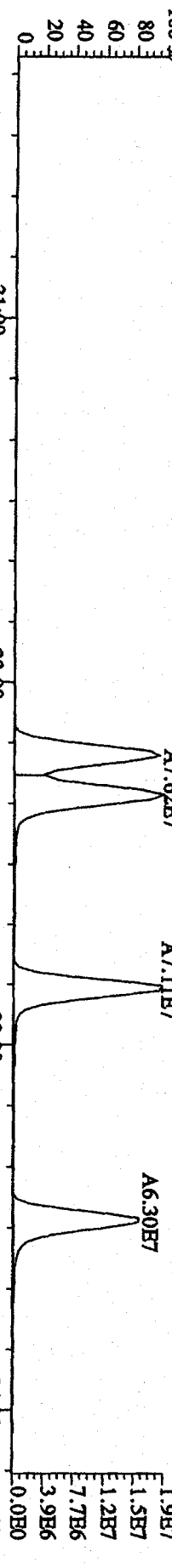
File: 16SHE094D5 #1-295 Acq:17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec-Ultimah

Sample#4 Text:ST0916B :CS-3 09DXN238 Exp:DIOXIN

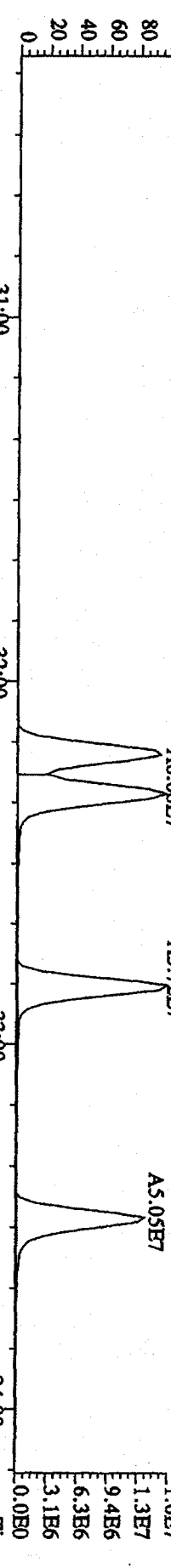
392.9760 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



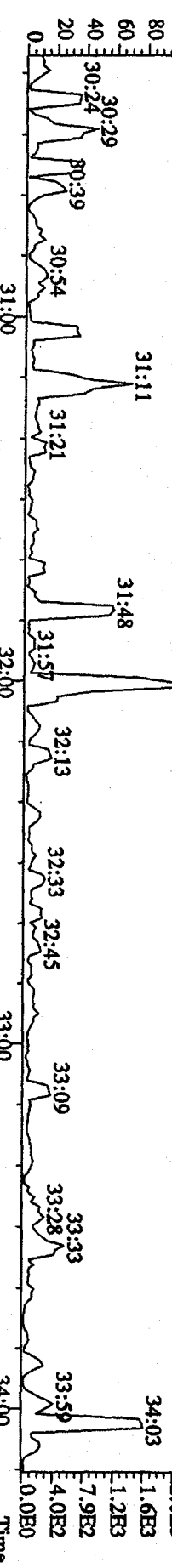
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1752.0,1.00%,F,T)



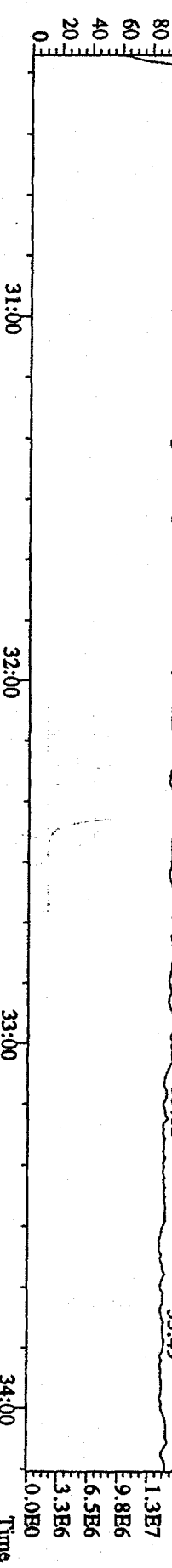
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4300.0,1.00%,F,T)



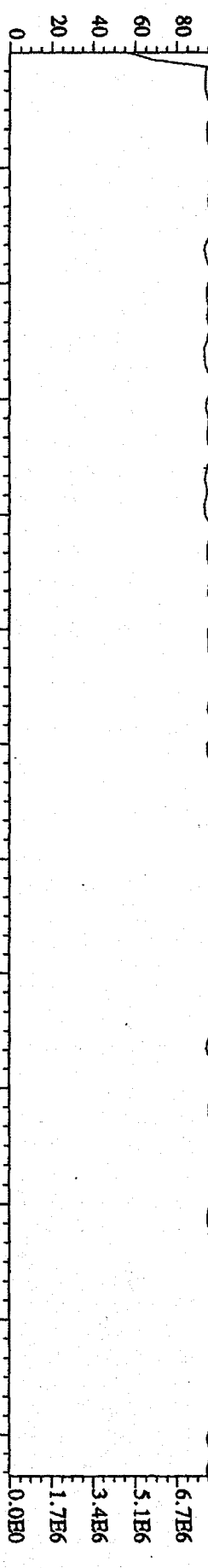
445.7555 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,140.0,1.00%,F,T)



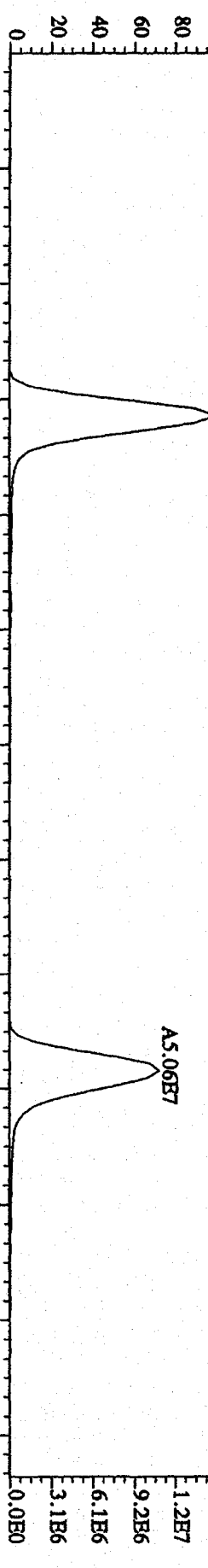
380.9760 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



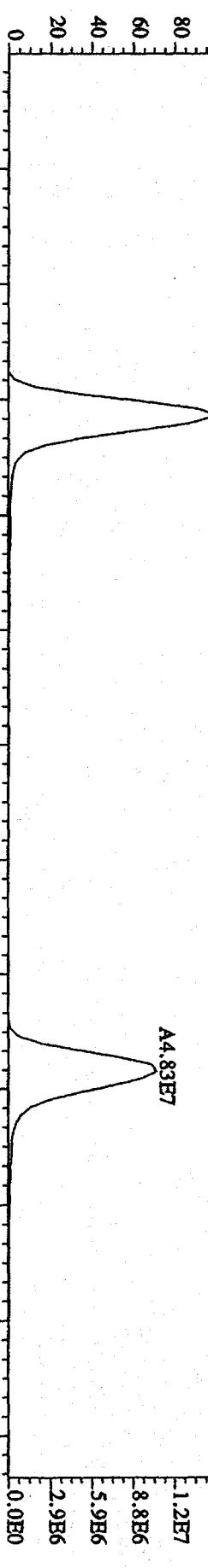
File: 16SE094D5 #1-198 Acq: 17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text: ST0916B :CS.3 09DDXN238 Exp: DIOXIN
 430.9728 S:4 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 34:18 34:30 34:47 34:54 35:02 35:10 35:22 35:36 35:52 36:00 36:11 36:20 36:34



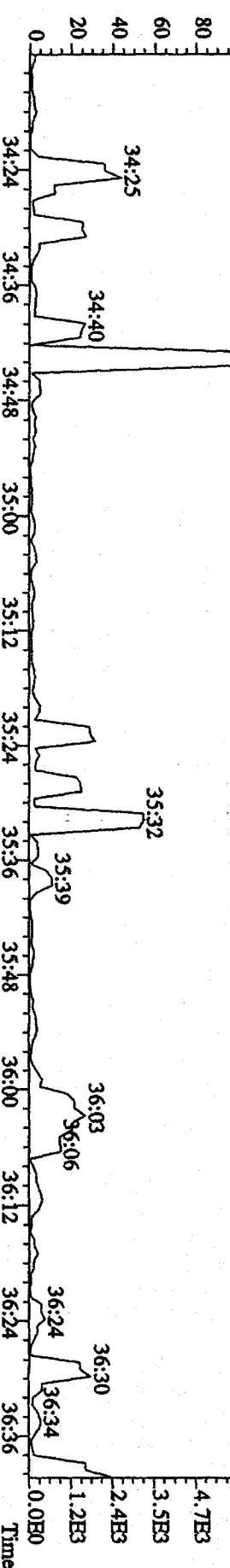
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22332.0,1.00%,F,T)
 100% 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 36:36



409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20656.0,1.00%,F,T)
 100% 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 36:36



479.7165 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,180.0,1.00%,F,T)
 100% 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48 36:00 36:12 36:24 36:36



File:16SSE094D5 #1-268 Acq:17-SEP-2009 00:59:28 GC EI+ Voltage SIR Autospec-Ultimah

Sample#4 Text:ST0916B :CS.3 09DDXN238 Exp:DIOXIN

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

100 % 36:47 37:01 37:15 37:28 37:40

38:03

38:21

38:33

38:47

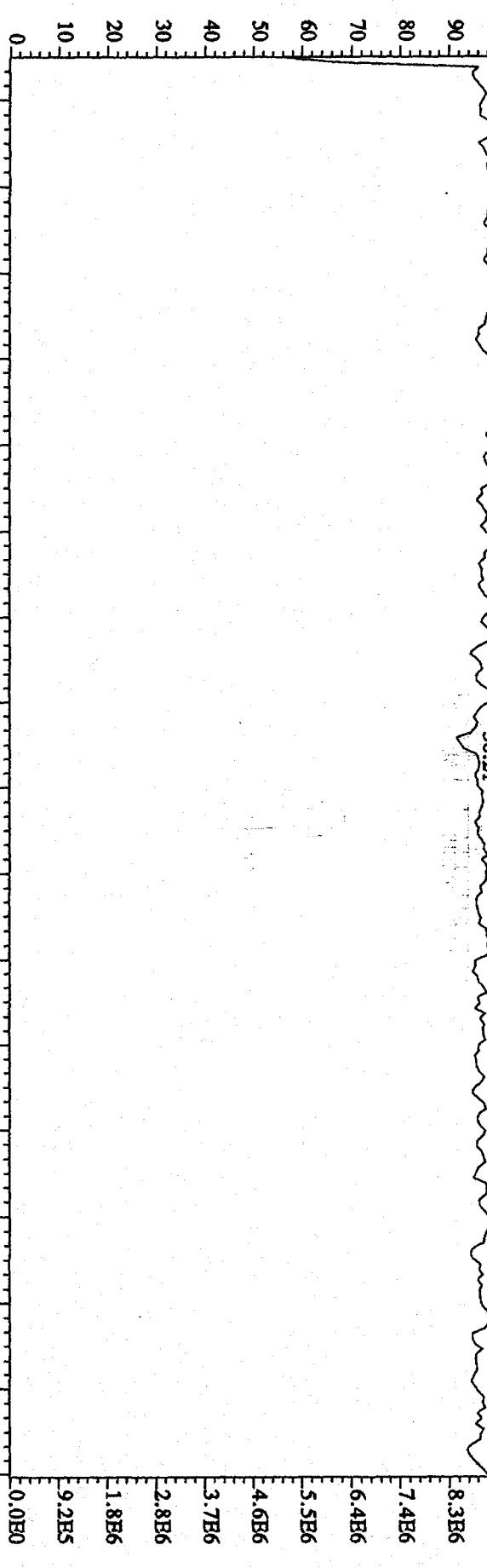
39:09

39:25

39:38

39:51

9.2B6



442.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 36:47 37:01 37:15 37:28 37:40

38:03

38:21

38:33

38:47

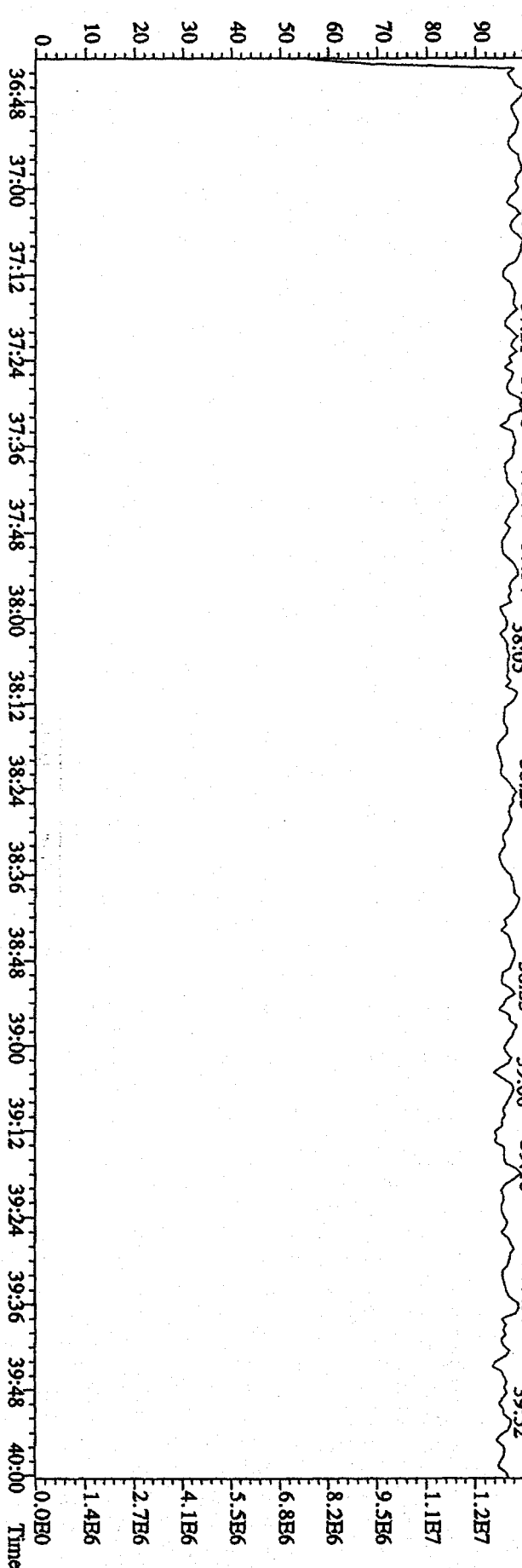
39:09

39:25

39:37

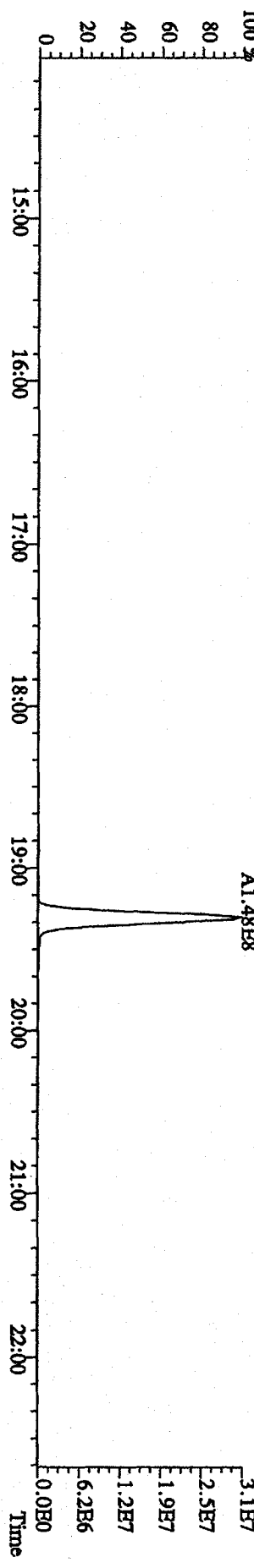
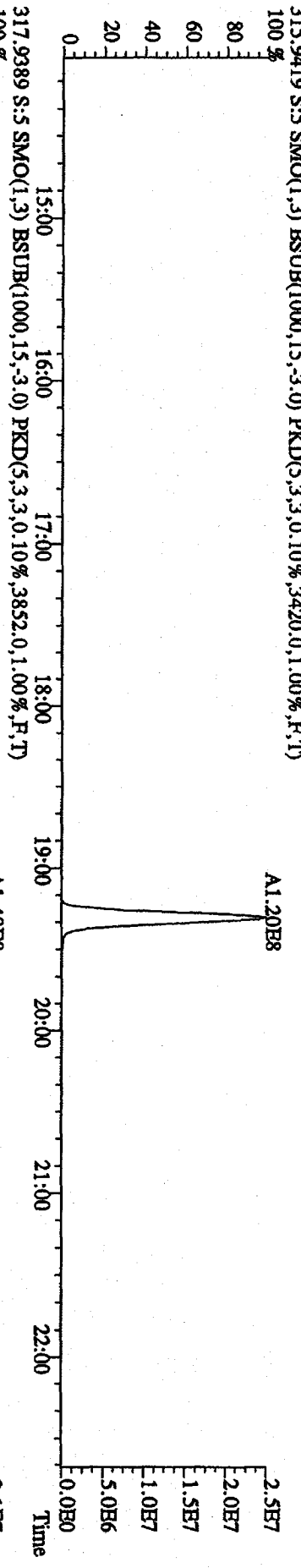
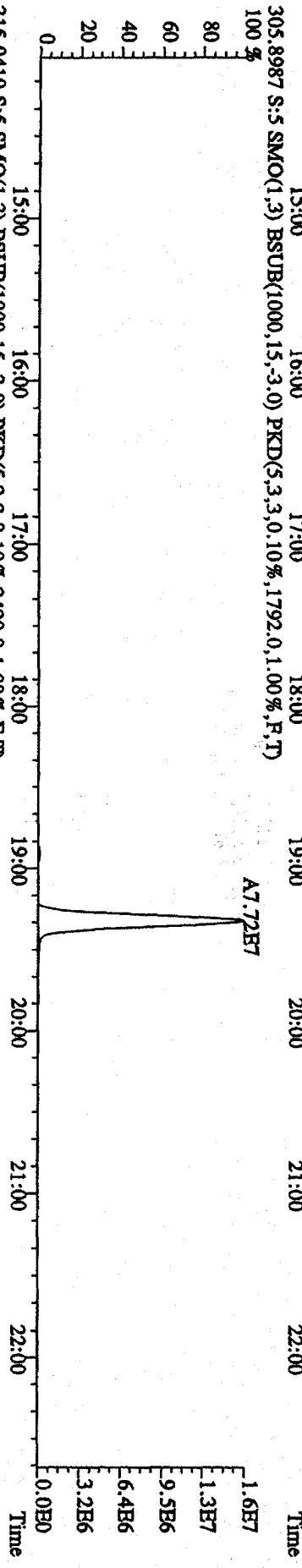
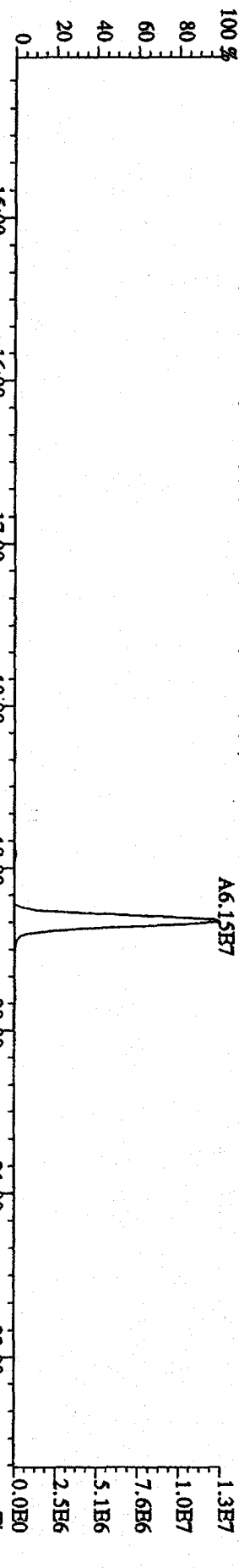
39:52

1.4E7

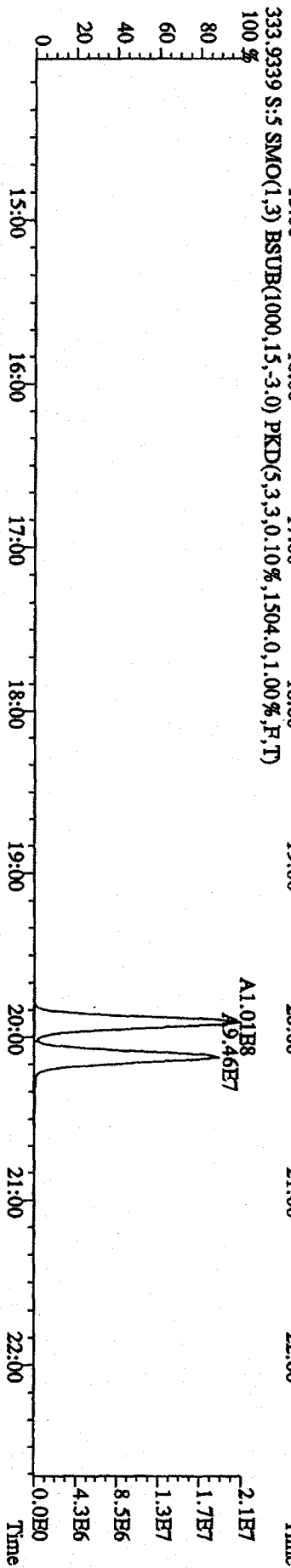
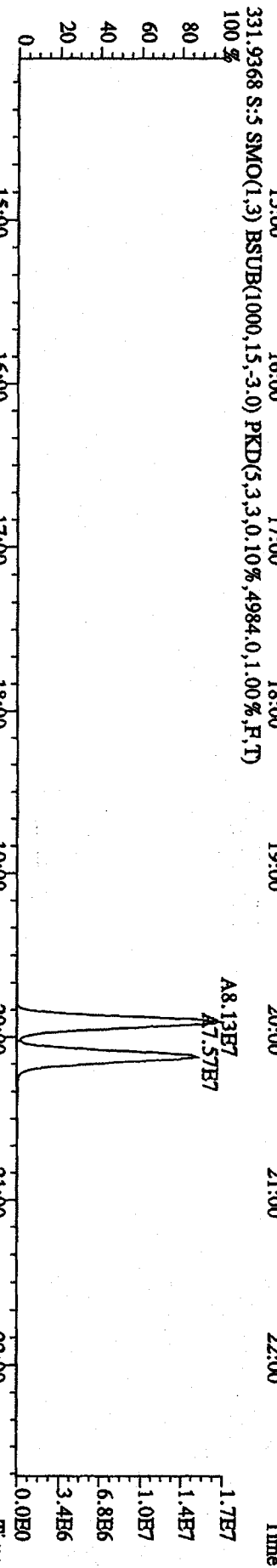
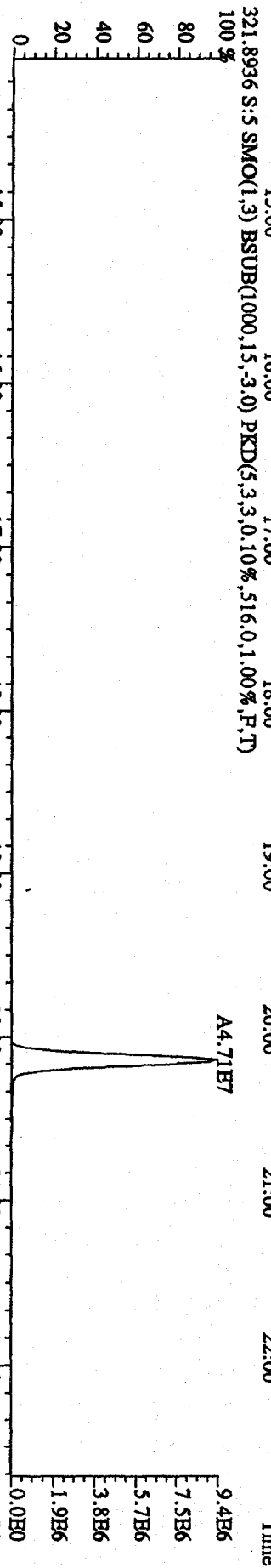
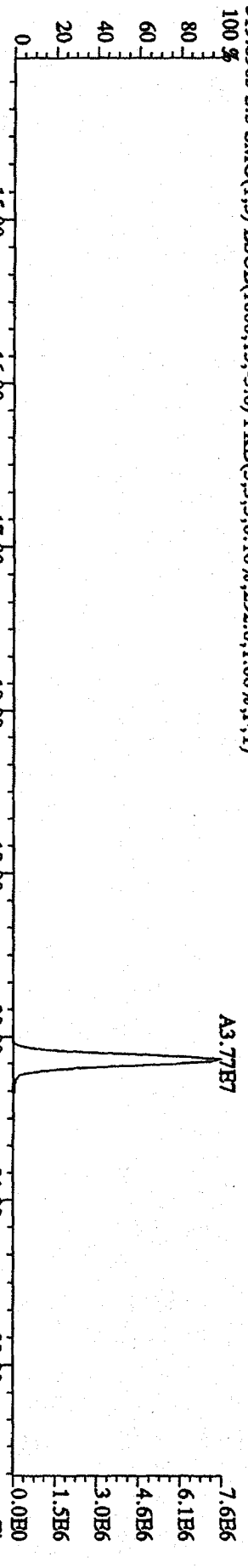


File:16SB094D5 #1-601 Acq:17-SEP-2009 01:43:31 GC EI+ Voltage SIR Autospec-UltimatB

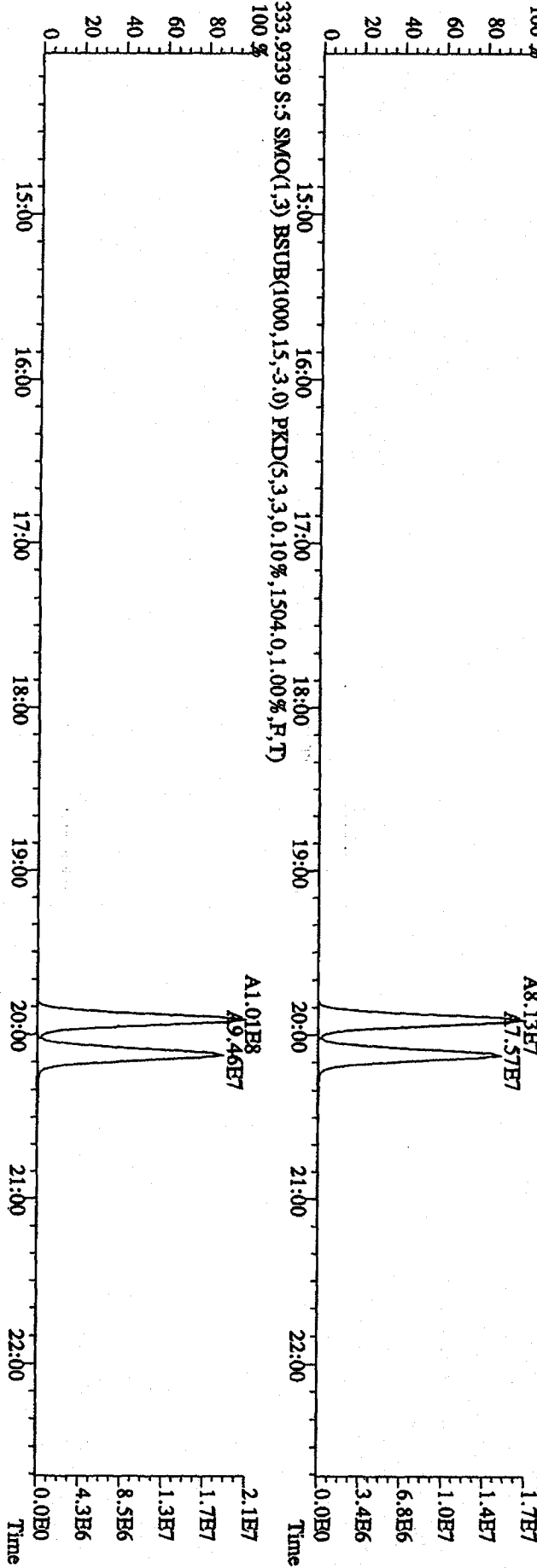
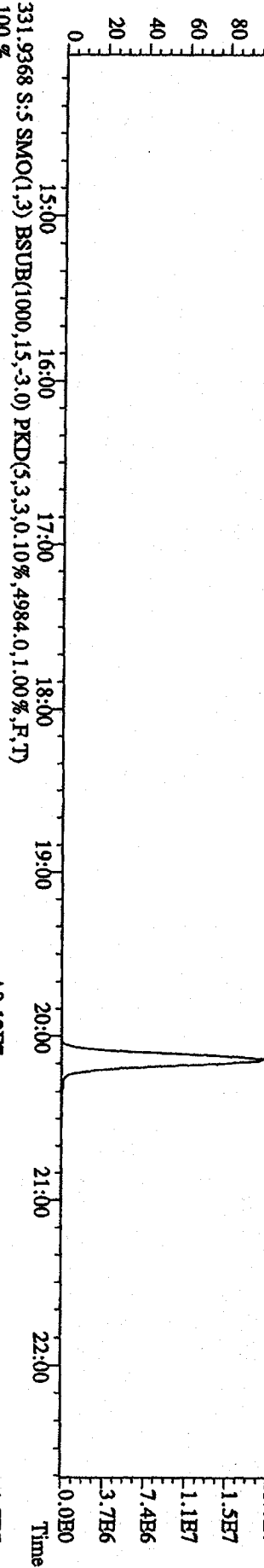
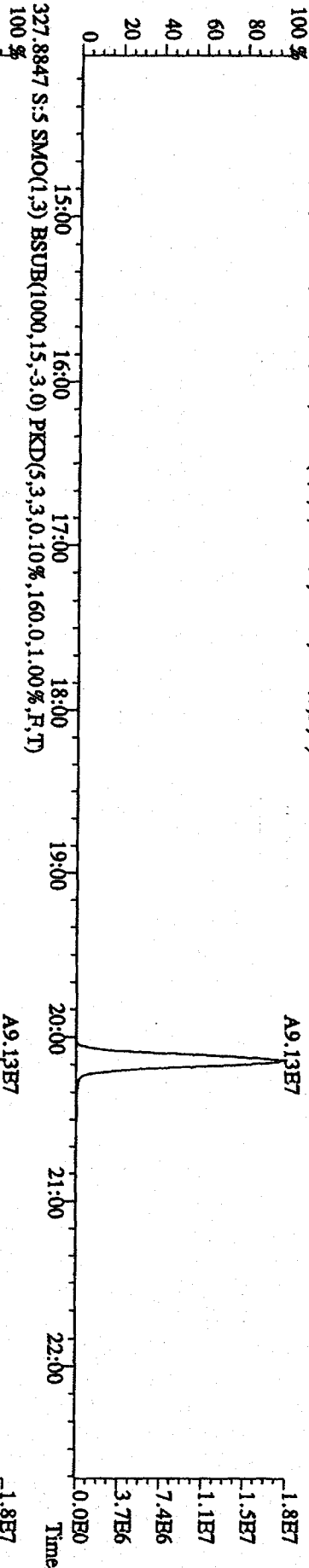
Sample#5 Text:ST0916C :CS-4 09DXN239 Exp:DIOXIN



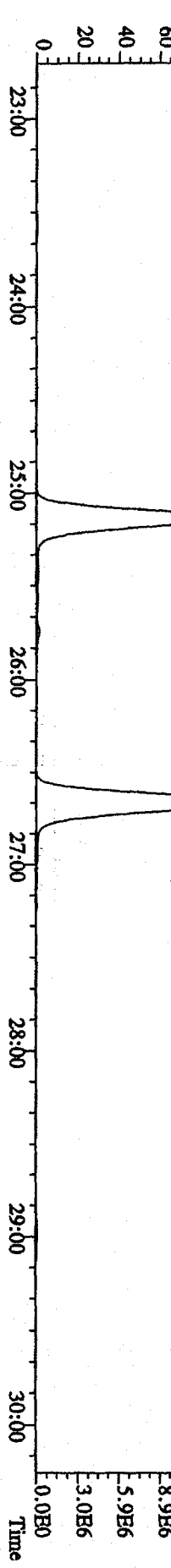
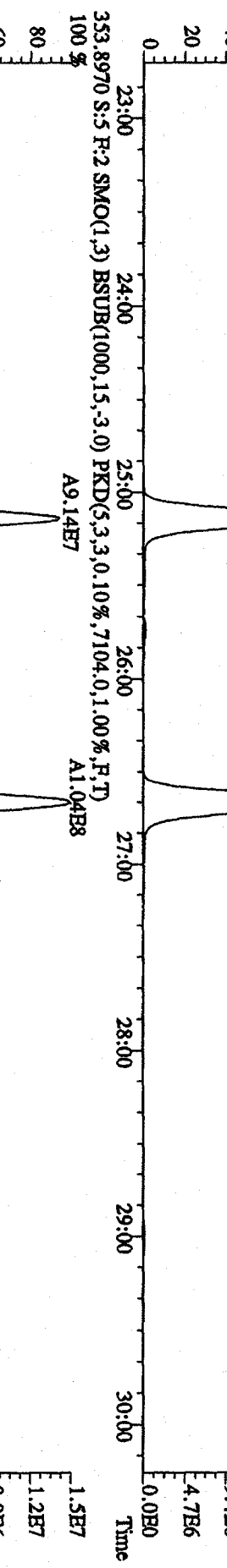
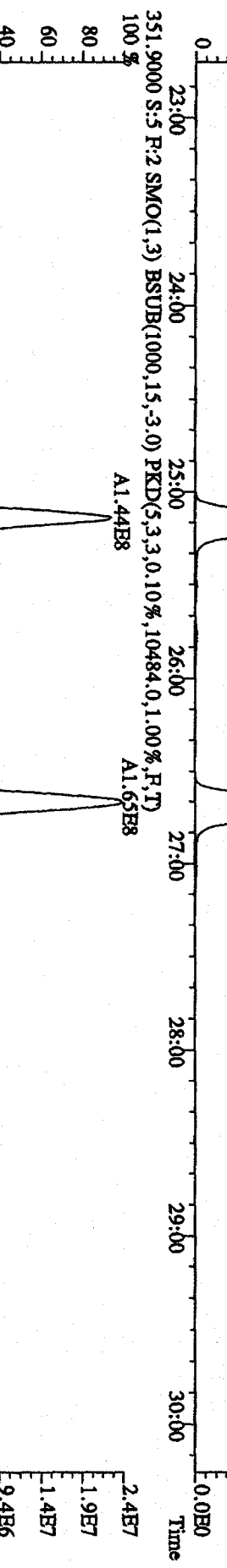
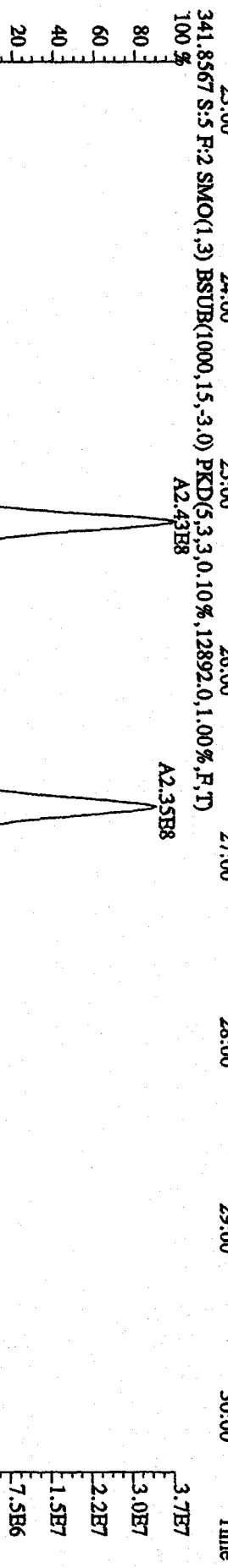
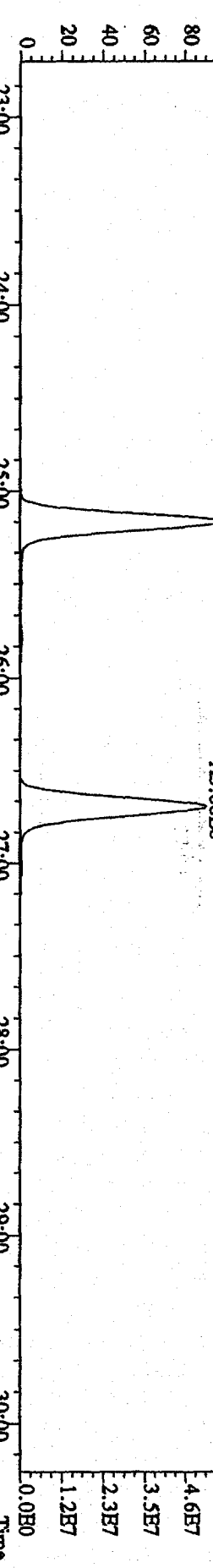
File: 16SBE094D5 #1-601 Acq: 17-SEP-2009 01:43:31 GC-III + Voltage SIR Autospec-UltimaB
 Sample#5 Text: ST0916C :CS-4 09DXN239 Exp: DIOXIN
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,292.0,1.00%,F,T)



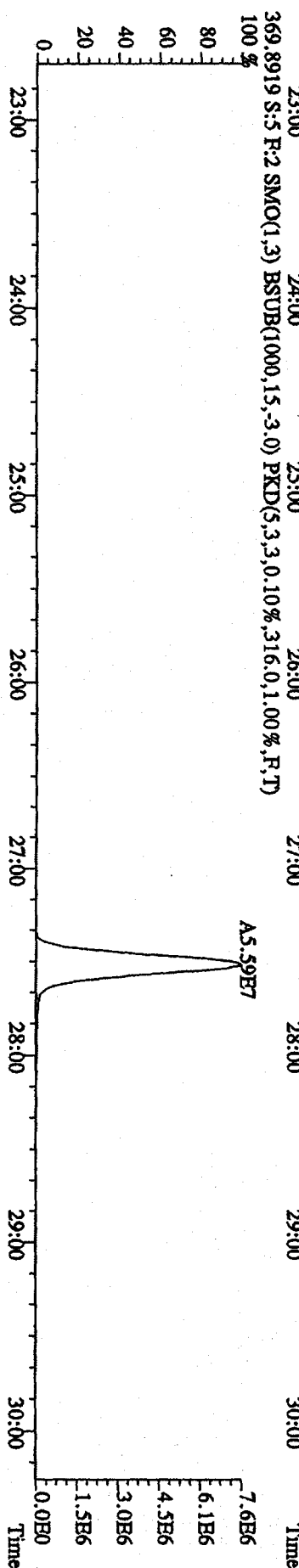
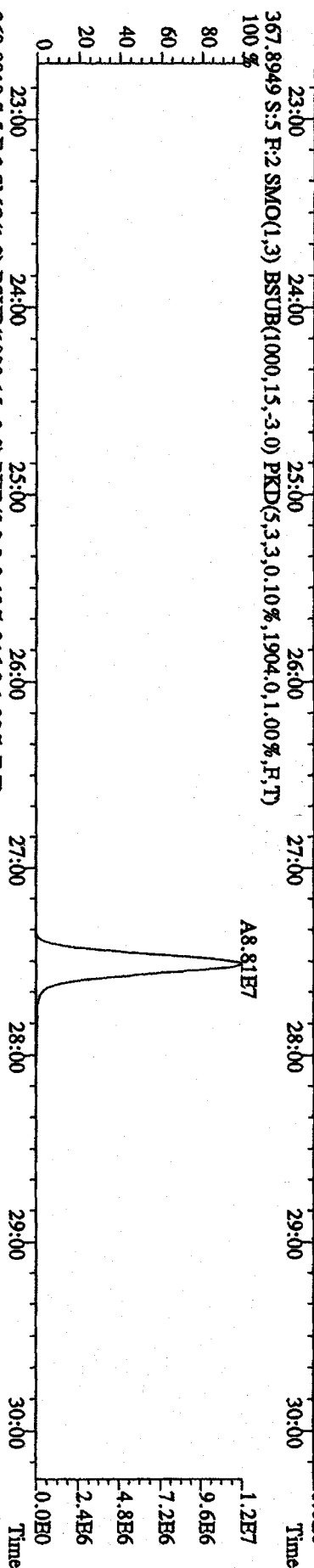
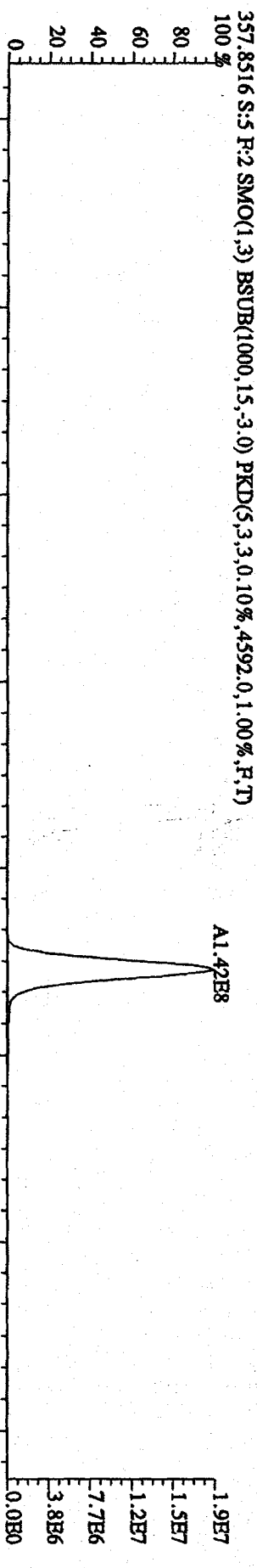
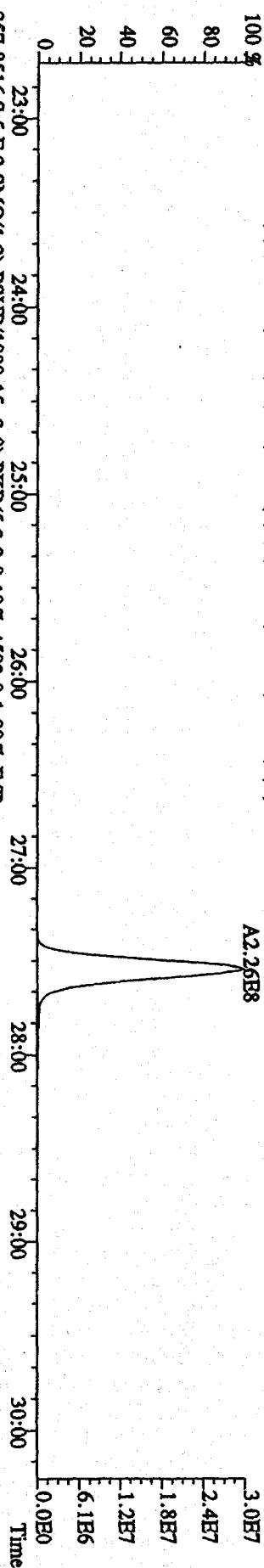
File: 16SE094D5 #1-601 Acq:17-SEP-2009 01:43:31 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:ST0916C :CS-4 09DXN239 Exp:DIOXIN
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,160.0,1.00%,F,T)



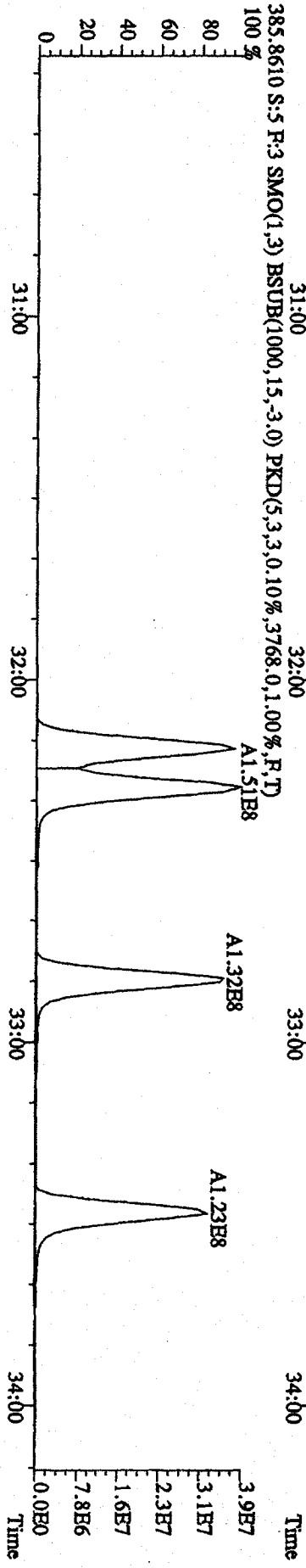
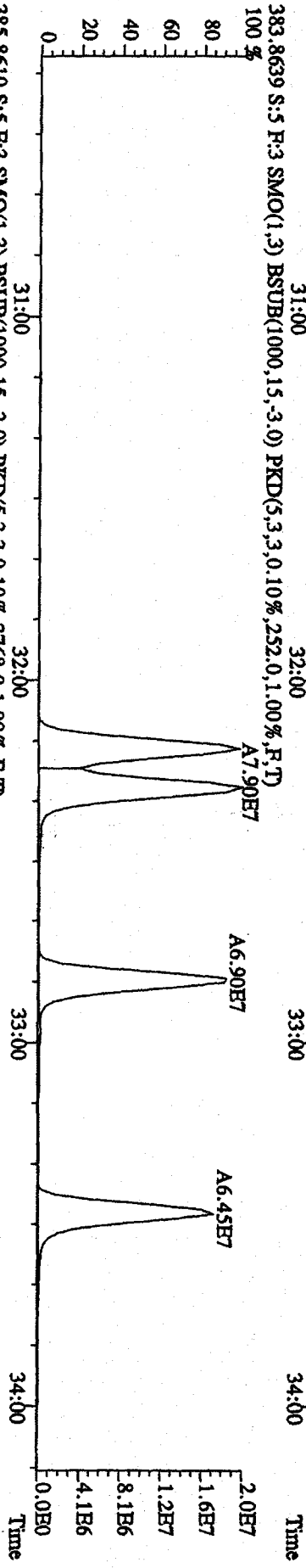
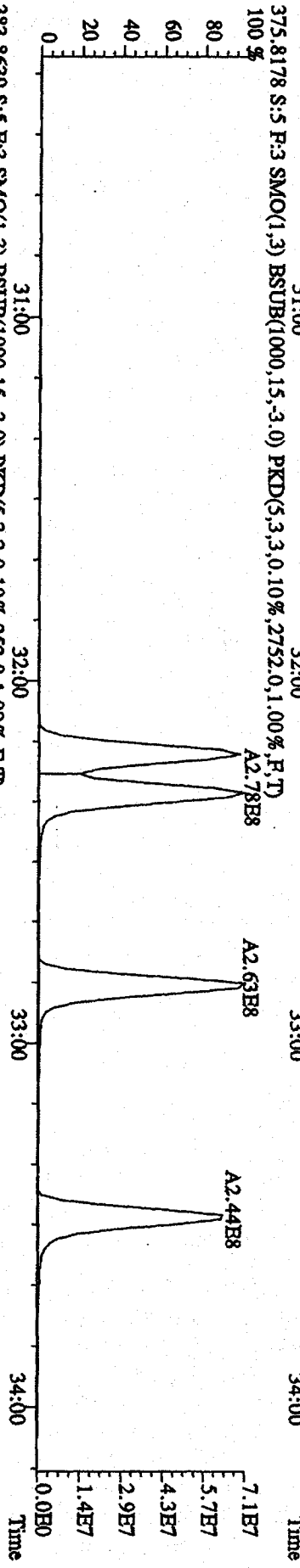
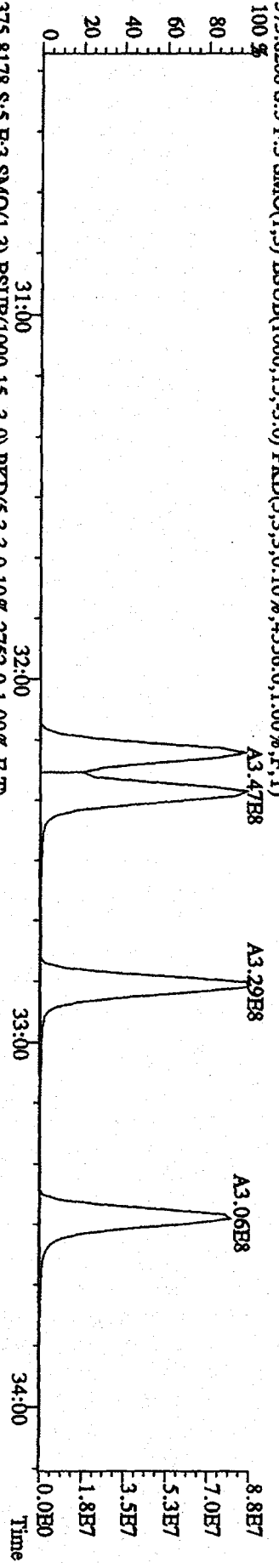
File: 16SE094D5 #1-603 Acq: 17-SEP-2009 01:43:31 GC EI + Voltage SIR Autospec-UltimaB
 Sample#5 Text: ST0916C :CS-4 09DXN239 Exp.: DIOXIN
 339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8048,0,1,00%,F,T) A3.77E8
 100%



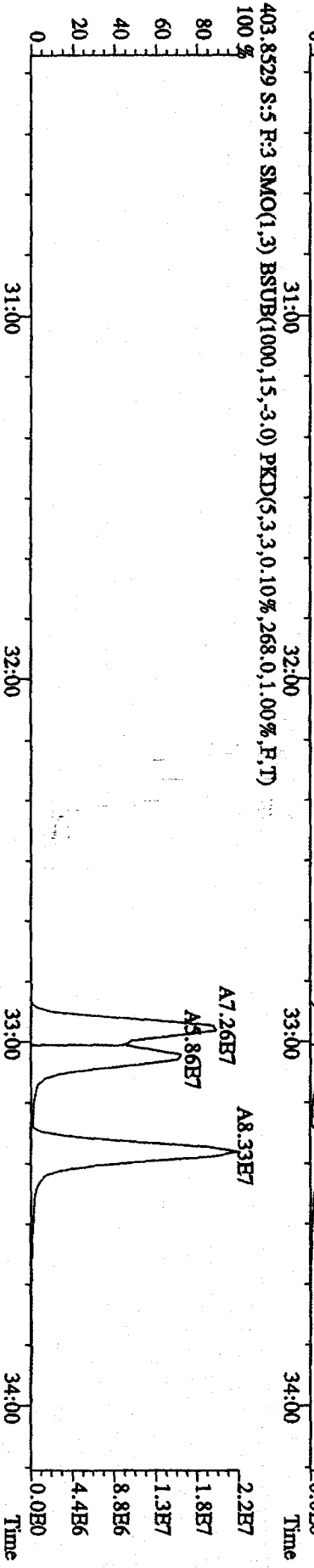
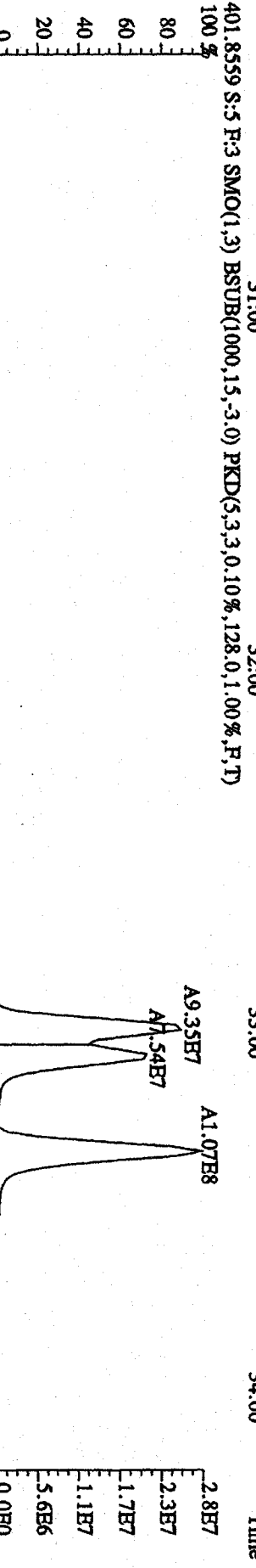
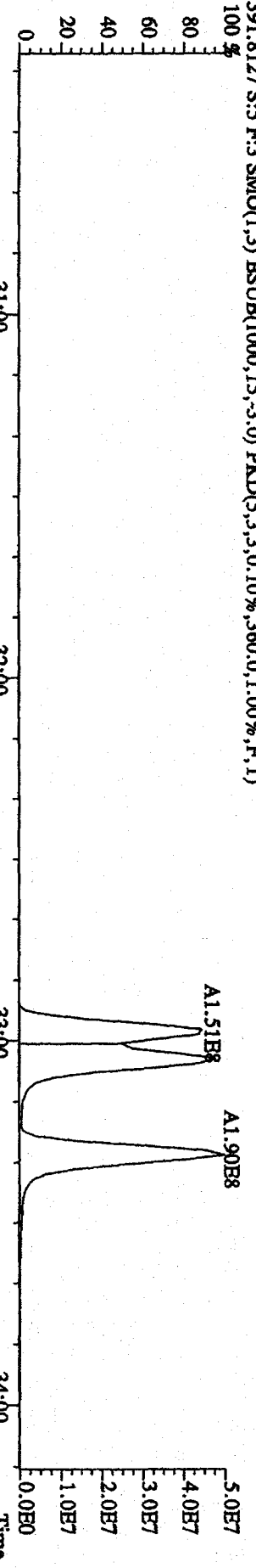
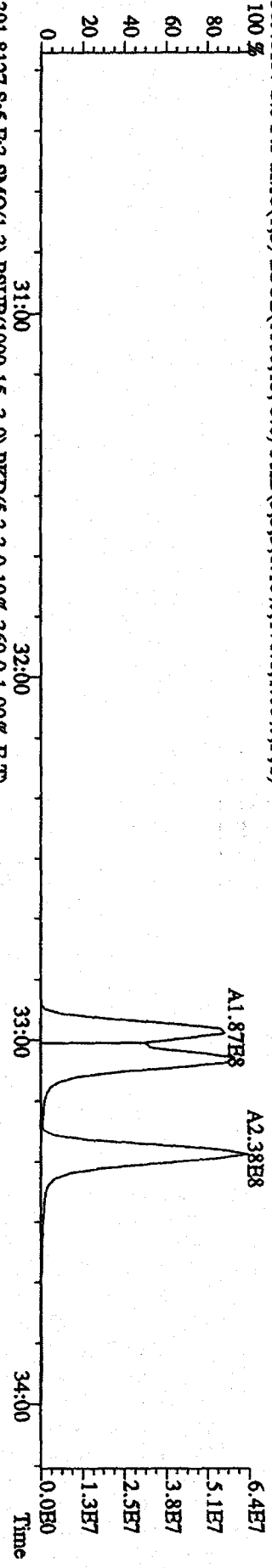
File:16SE094D5 #1-603 Acq:17-SEP-2009 01:43:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:ST0916C :CS-4 09DXN239 Exp:DIOXIN
 355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8020,0.1,00%,F,T)
 100%



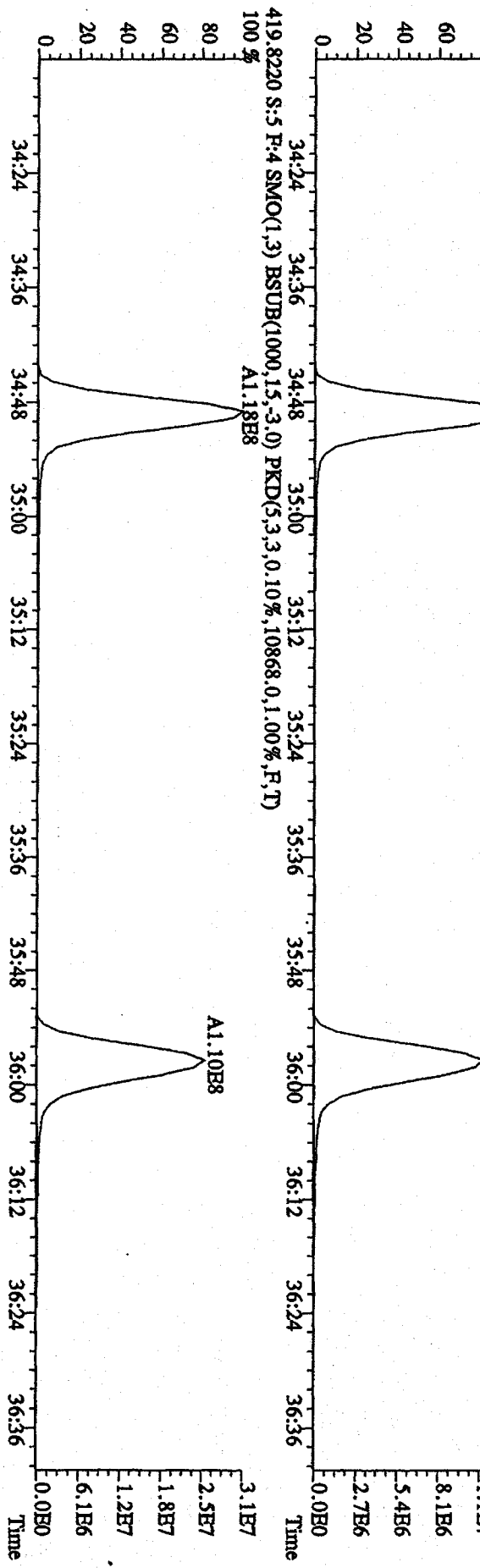
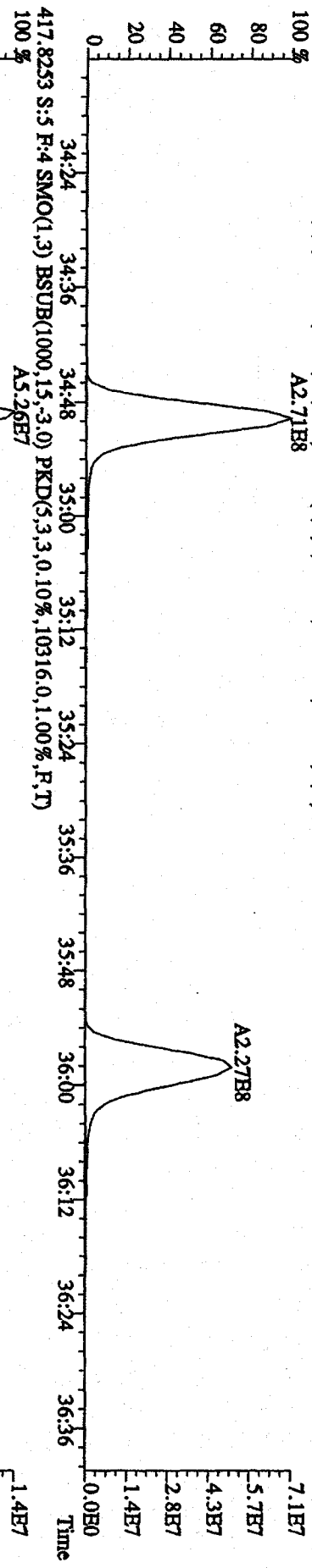
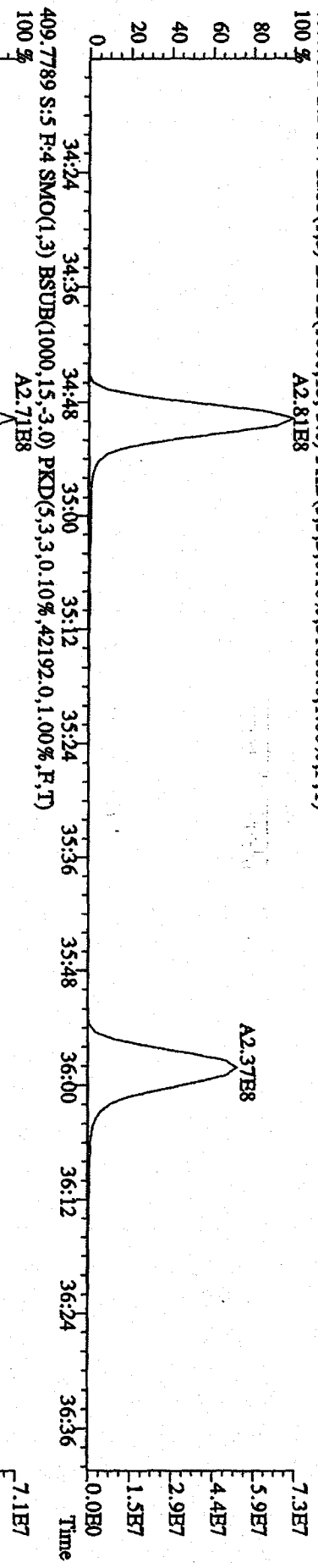
File: 16SE094D5 #1-295 Acq: 17-SEP-2009 01:43:31 GC HI + Voltage SIR Autospec-Ultimate
 Sample#5 Text: ST0916C :CS-4 09DXN239 Exp: DIOXIN
 373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4556,0.1,0.00%,F,T) 100 %



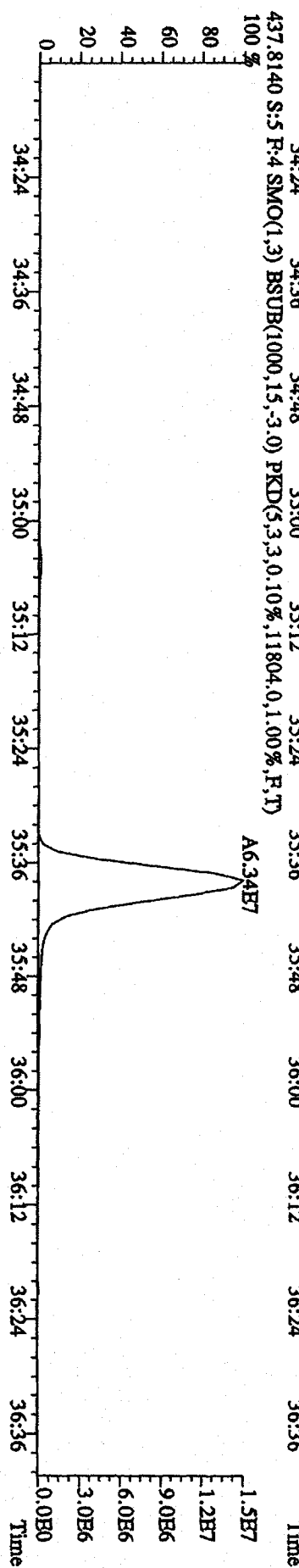
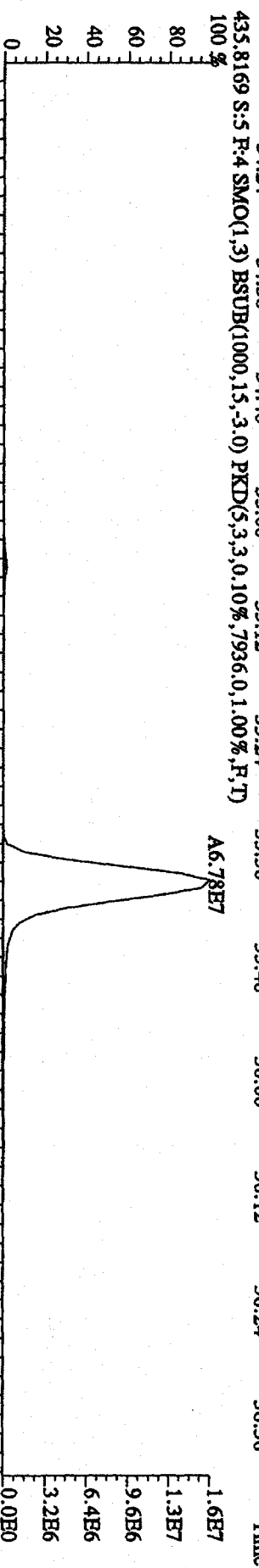
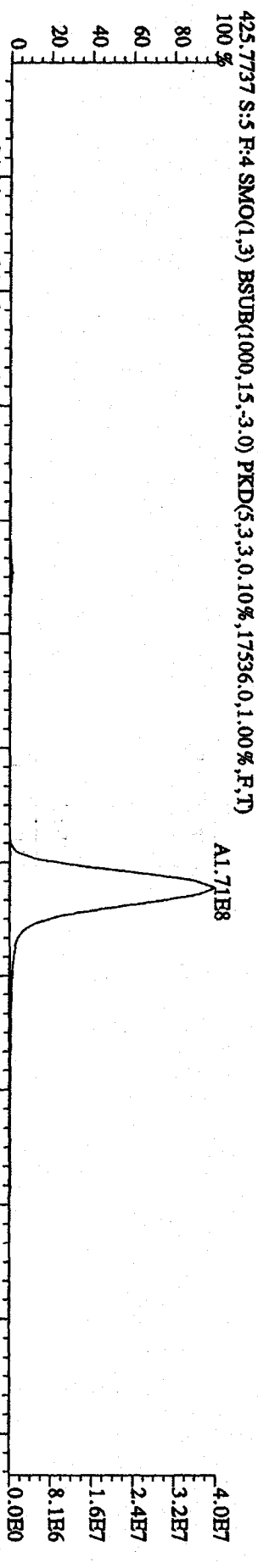
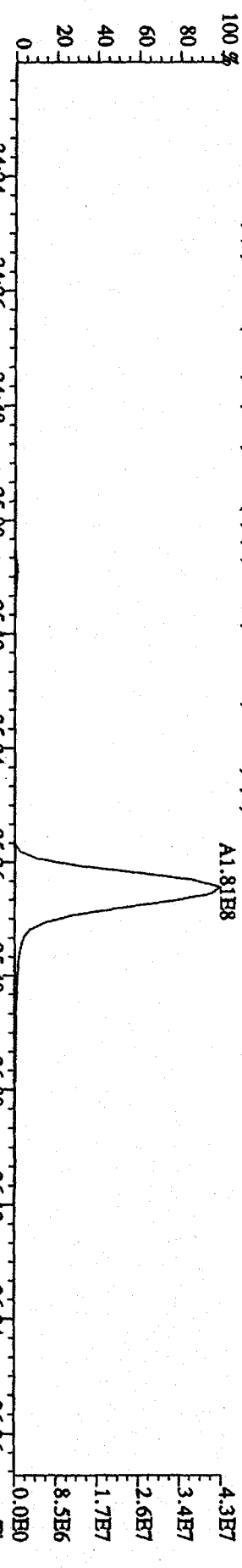
File:16SBE094D5 #1-295 Acq:17-SEP-2009 01:43:31 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:ST0916C :CS-4 09DXN239 Exp:DIOXIN
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,176.0,1.00%,F,T) 100%



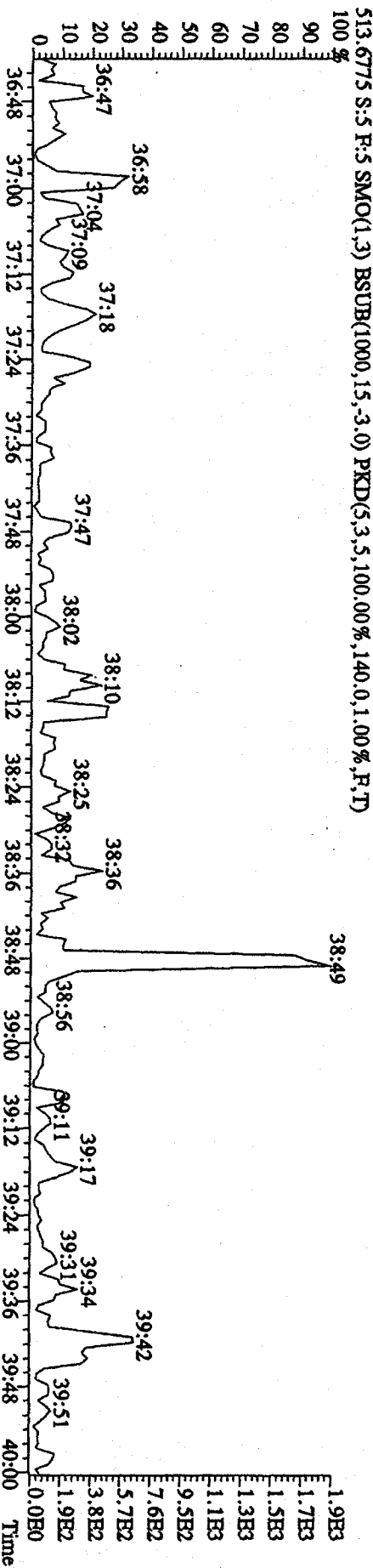
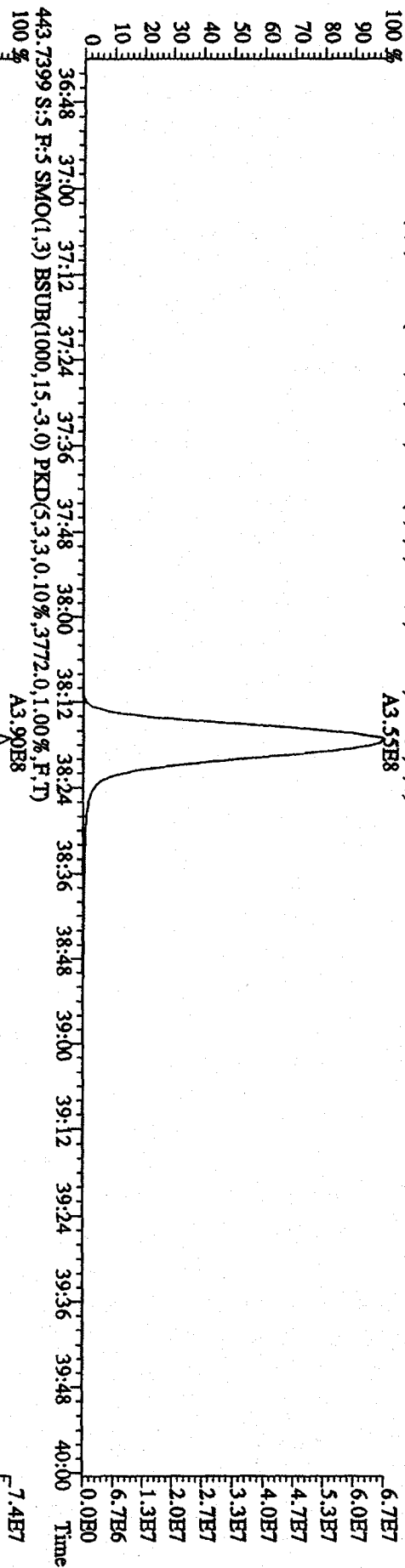
File: 16SBE094D5 #1-198 Acq: 17-SEP-2009 01:43:31 GC BE+ Voltage SIR Autospec-UltimaB
 Sample#5 Text: ST0916C :CS-4 09DXN239 Exp: DIOXIN
 407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,51600,0,1,00%,F,T)
 100 % A2.81E8



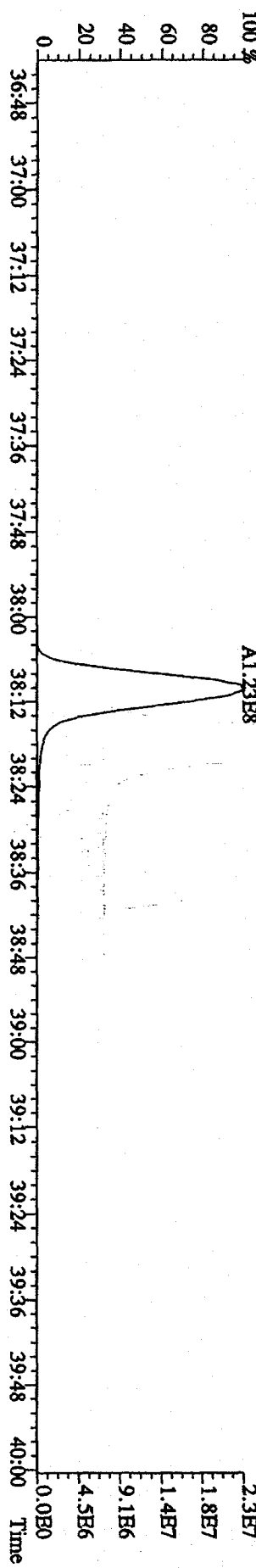
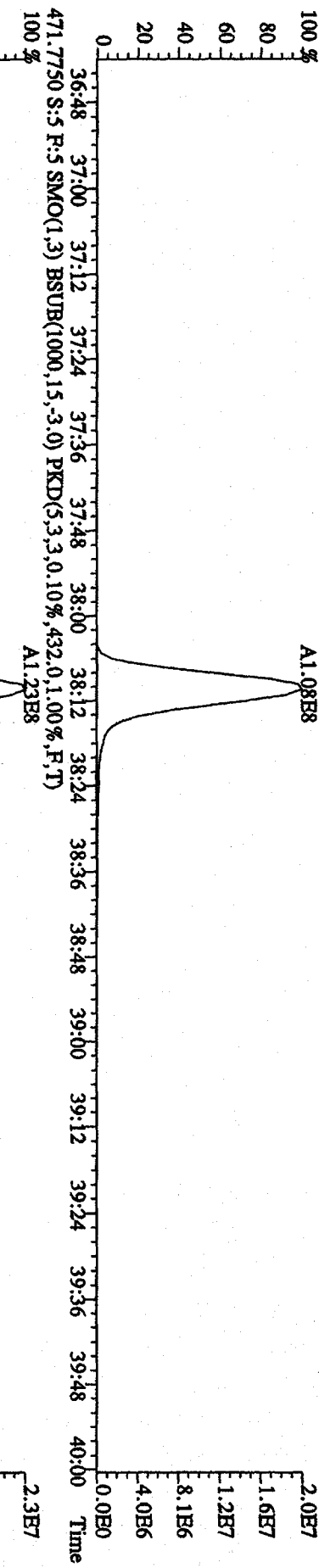
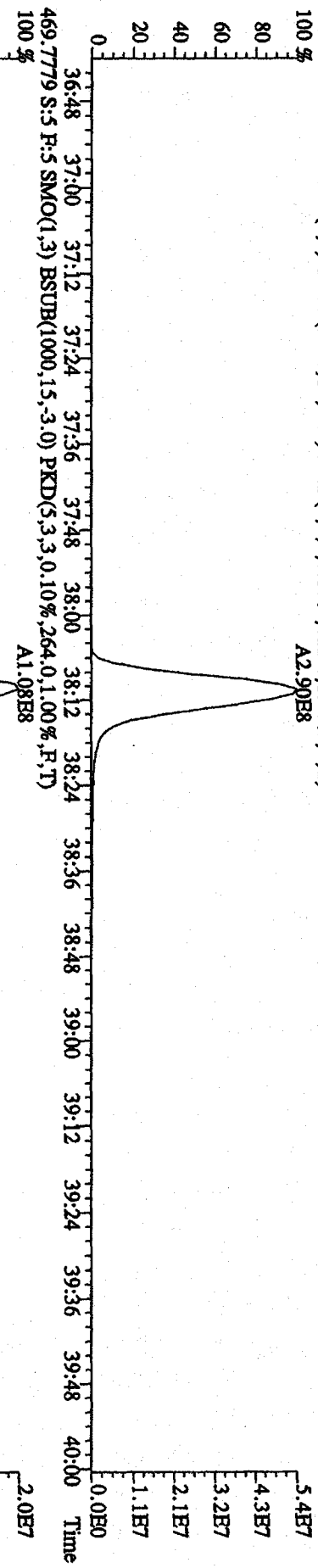
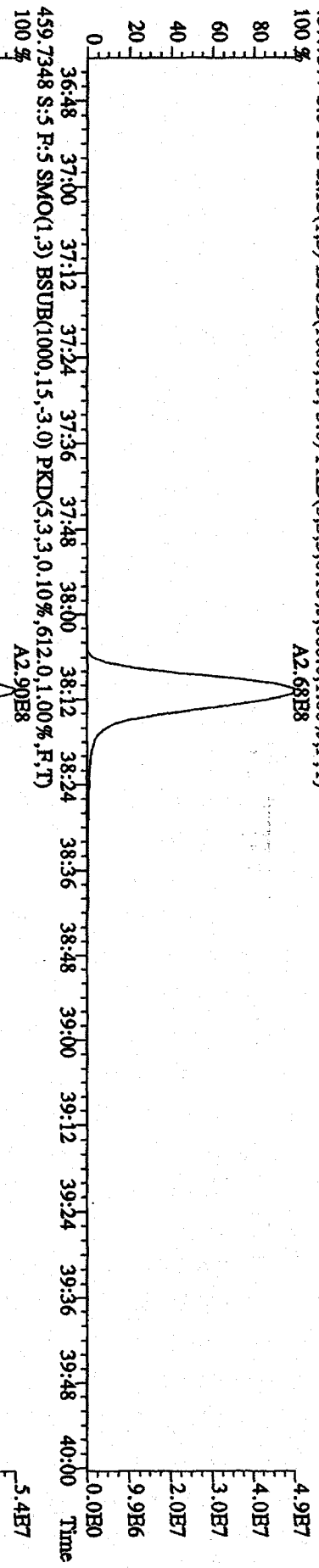
File:16SE094D5 #1-198 Acq:17-SEP-2009 01:43:31 GC EI + Voltage SIR Autospec-Ultimate
 Sample#5 Text:ST0916C :CS 4 09DXN239 Exp:DIOXIN
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20636,0,1.00%,F,T) 100%



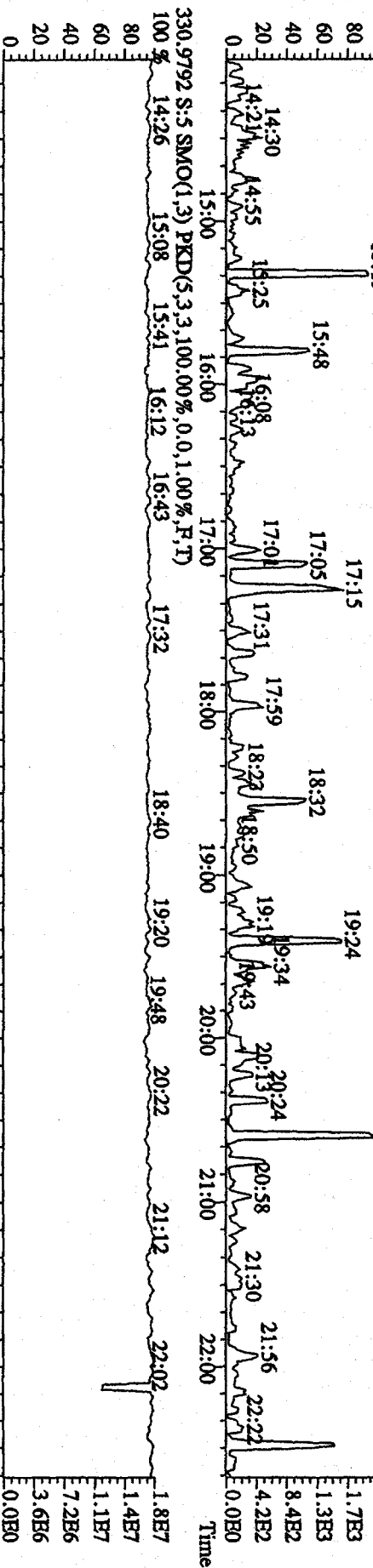
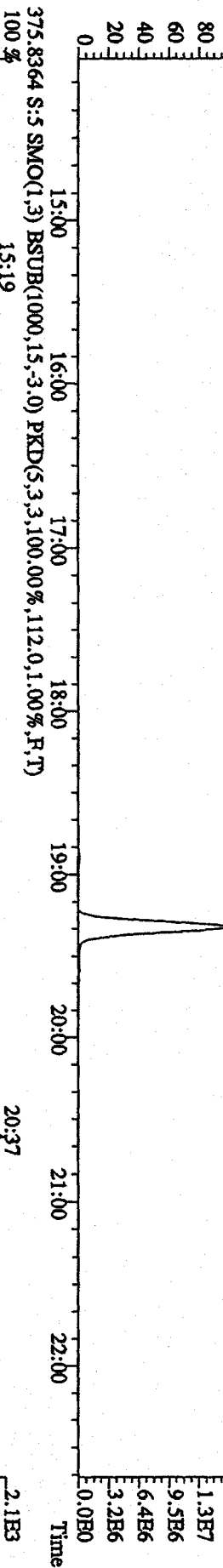
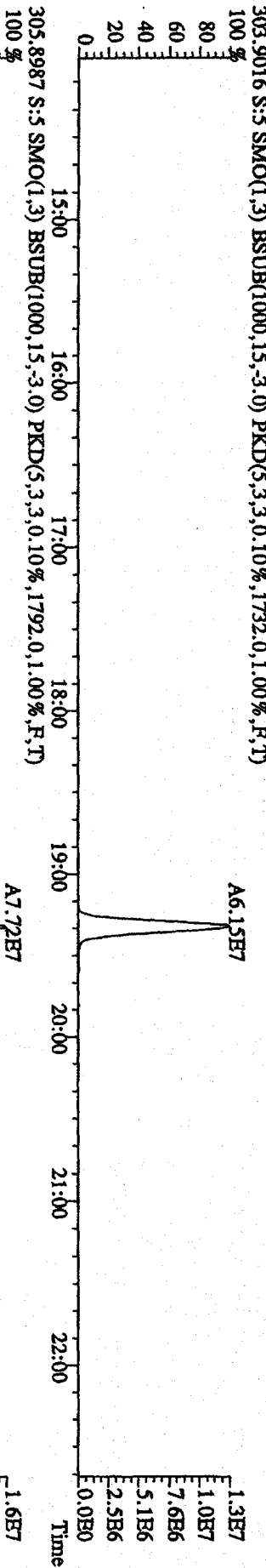
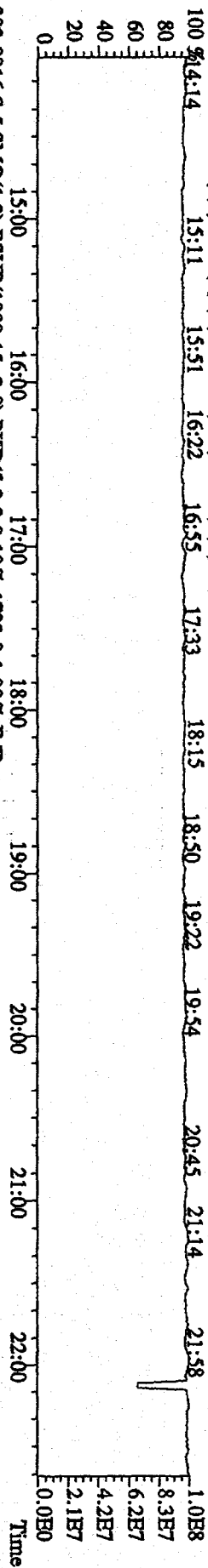
File:16SB094D5 #1-268 Acq:17-SHP-2009 01:43:31 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:ST0916C :CS-4 09DXN239 Exp:DIOXIN
 441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3800,0,1,00%,F,T)
 A3.55E8



File:16SE094D5 #1-268 Acq:17-SBP-2009 01:43:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:ST0916C :CS-4 09DXN239 Exp.:DIOXIN
 457.7377 S:5 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,860,0,1.00%,F,T)
 100%



File: 16SE094D5 #1-601 Acq: 17-SEP-2009 01:43:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text: ST0916C :CS-4 09DXN239 Exp: DIOXIN
 292.9825 S:5 SMO(1.3) PKD(5.3,3,100.00% 0.0,1.00% ,F,T)
 100 % 14:14 15:11 15:51 16:22 16:55 17:33 18:15 18:50 19:22 19:54 20:45 21:14 21:58

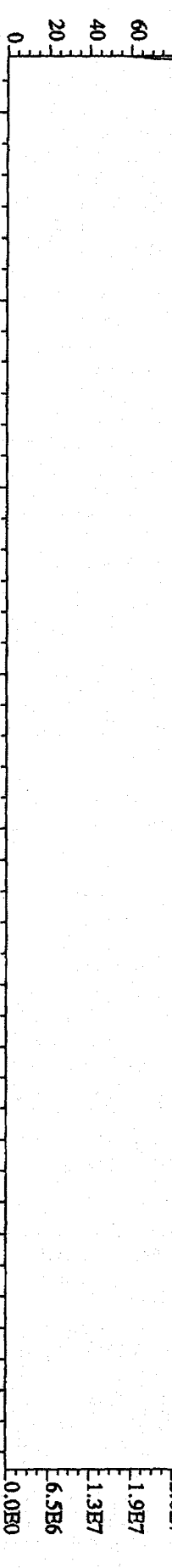


File:16SE094D5 #1-603 Acq:17-SEP-2009 01:43:31 GC EI+ Voltage SIR Autospec-UltimaB

Sample#5 Texi:ST0916C :CS-4 09DXN239 Exp:DIOXIN

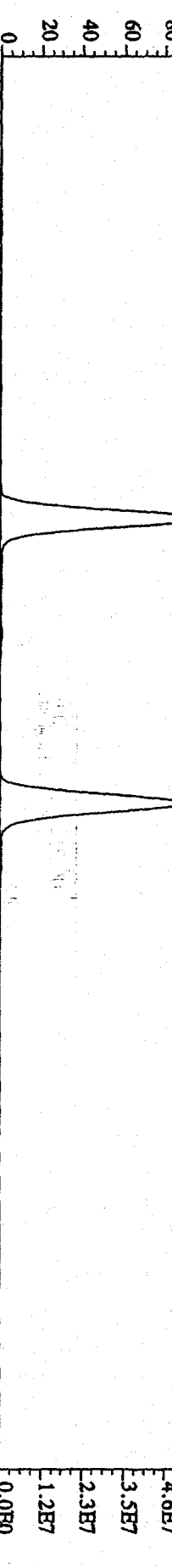
342.9792 S:5 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100% 23:17 23:47 24:22 25:02 25:41 26:26 27:06 28:01 28:50 29:33



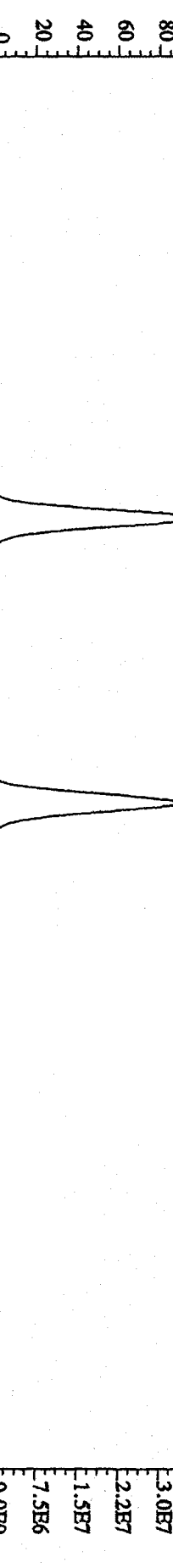
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8048,0.1,00%,F,T)

100% 23:00 24:00 25:00 26:00 27:00 28:00 29:00 30:00



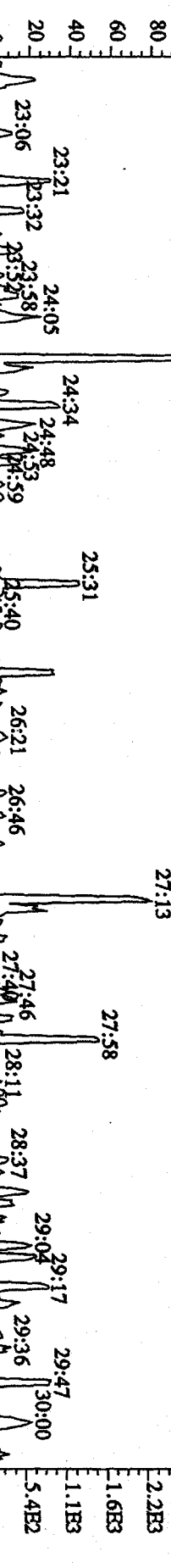
341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12892,0.1,00%,F,T)

100% 23:00 24:00 25:00 26:00 27:00 28:00 29:00 30:00



409.7974 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,112,0.1,00%,F,T)

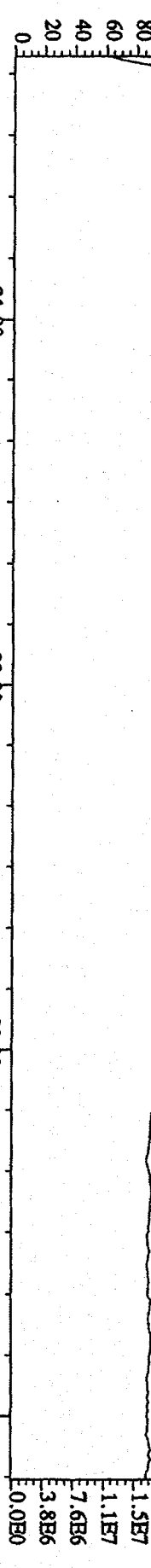
100% 23:00 24:00 25:00 26:00 27:00 28:00 29:00 30:00



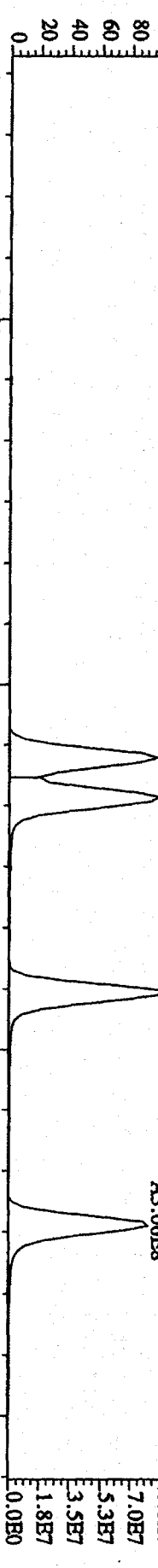
File:16SB094D5 #1-295 Acq:17-SEP-2009 01:43:31 GC EI+ Voltage SFR Autospec-UltimaB

Sample#5 Text:ST0916C :CS-4-09DXN239 Exp:DIOXIN

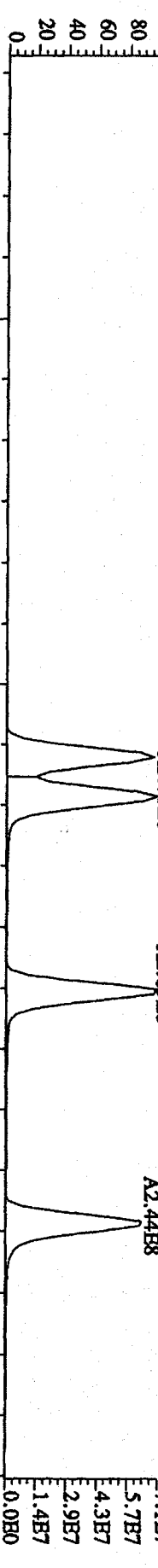
392.9760 S:5 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



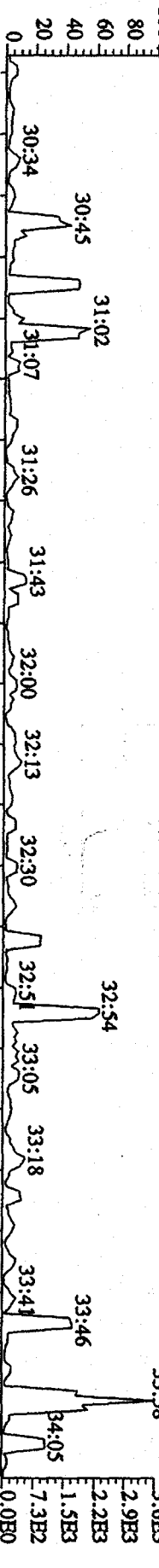
373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4556.0,1.00%,F,T)



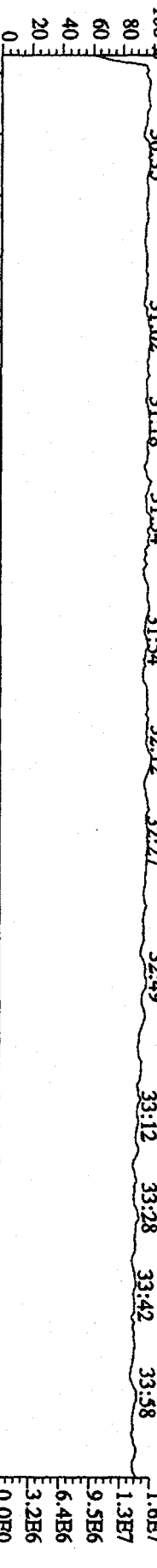
375.8178 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2752.0,1.00%,F,T)



445.7555 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,128.0,1.00%,F,T)



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

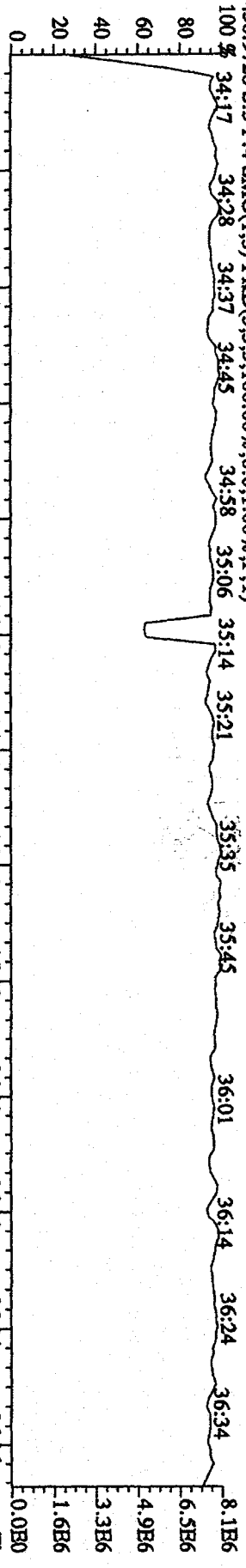


File: 16SE094D5 #1-198 Acq: 17-SEP-2009 01:43:31 GC EI+ Voltage SIR Autospec-UltimaB

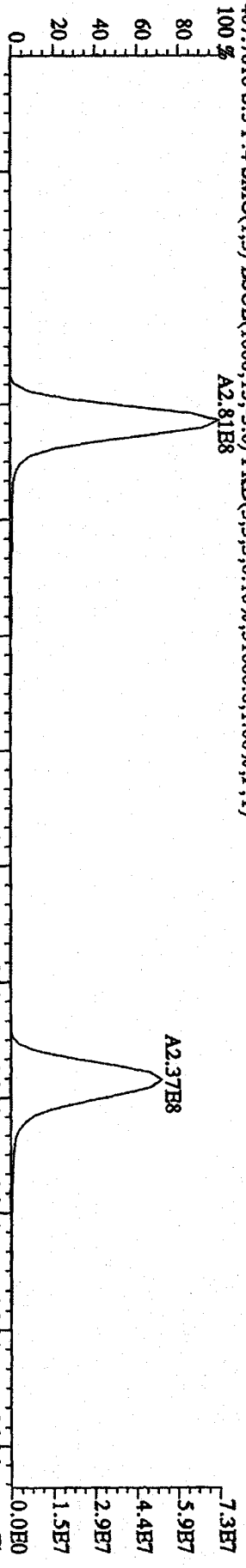
Sample#5 Tex: ST0916C : CS-4 09DXN239 Exp: DIOXIN

430.9728 S:5 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

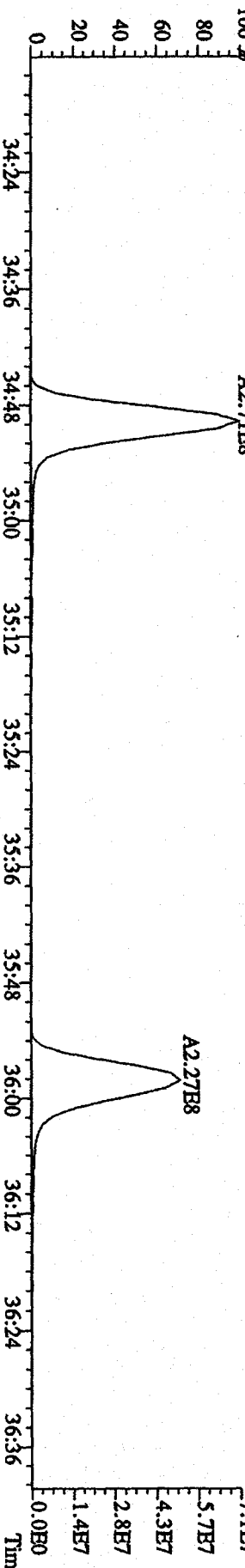
100% 34:17 34:28 34:37 34:45 34:58 35:06 35:14 35:21



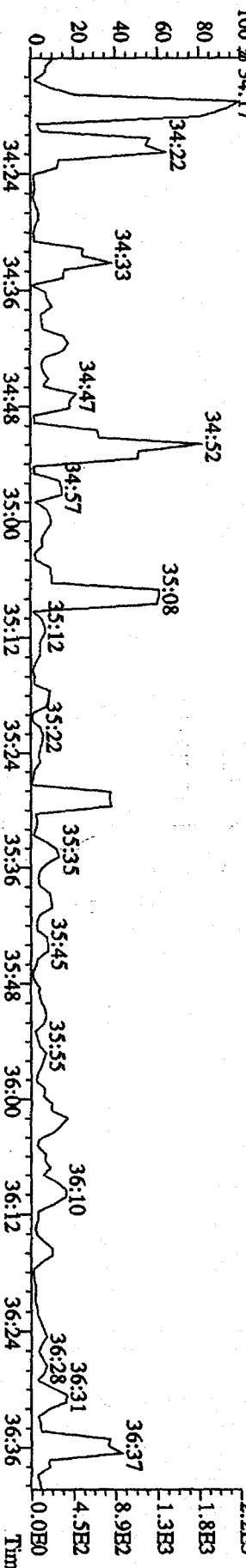
407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,51600,0,1,00%,F,T)



409.7789 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,42192,0,1,00%,F,T)



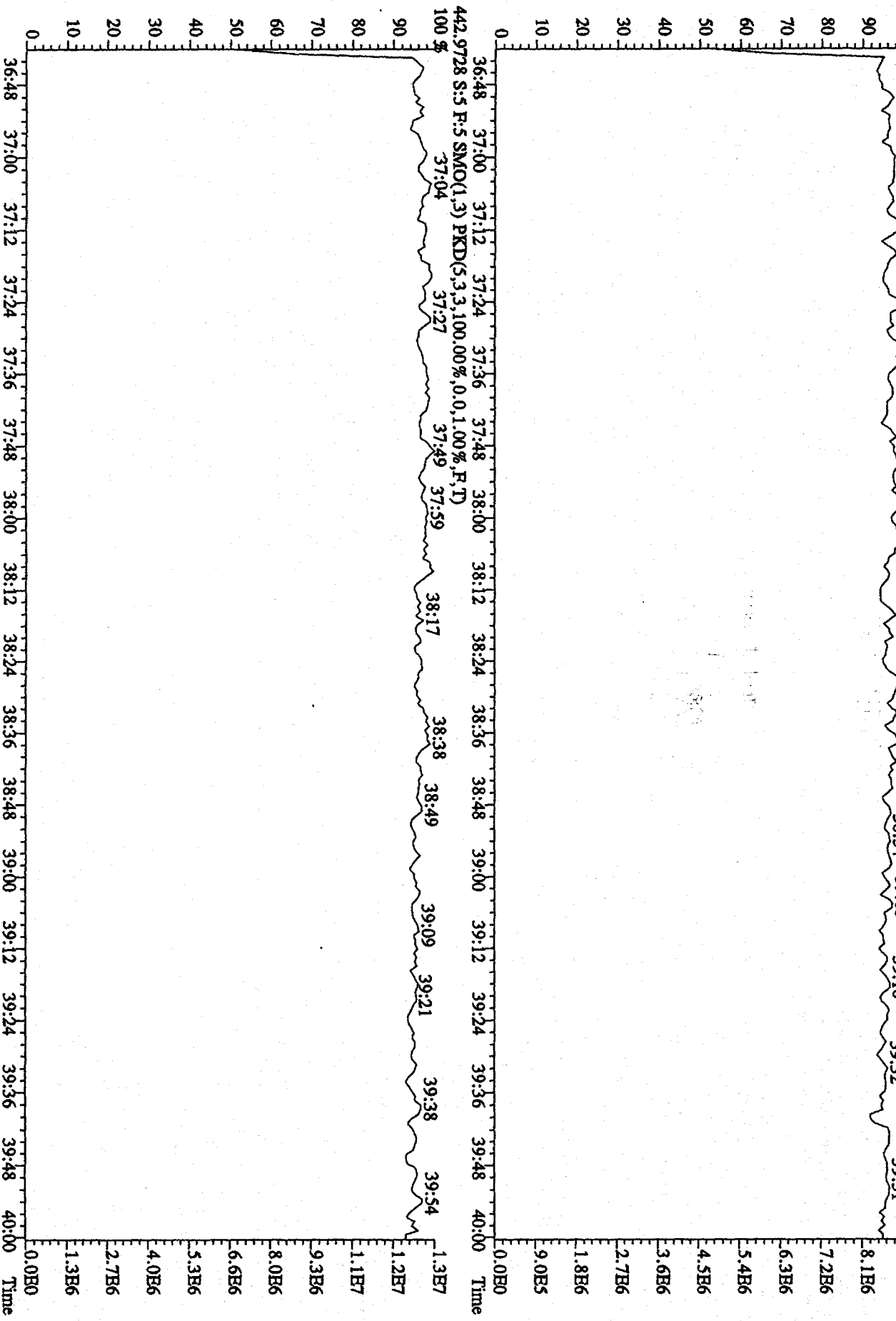
479.7165 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,132,0,1,00%,F,T)



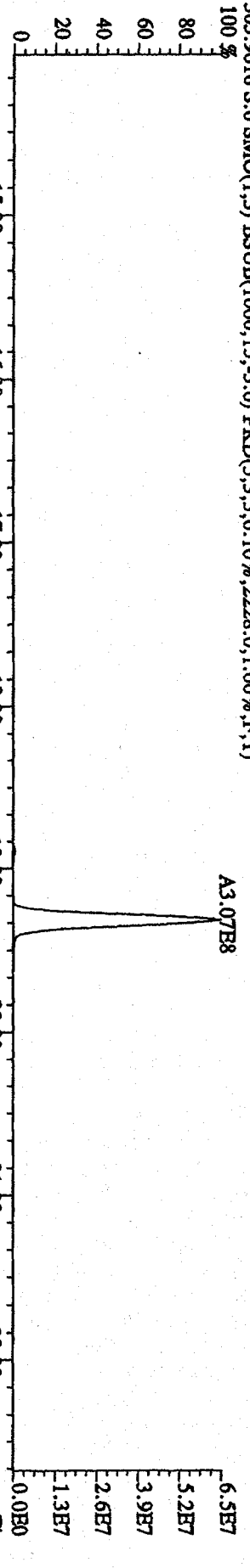
File: 165E094D5 #1-268 Acq: 17-SEP-2009 01:43:31 GC BI+ Voltage SIR Autospec-UltimaE

Sample#5 Text: ST0916C :CS-4 09DXN239 Exp: DIOXIN

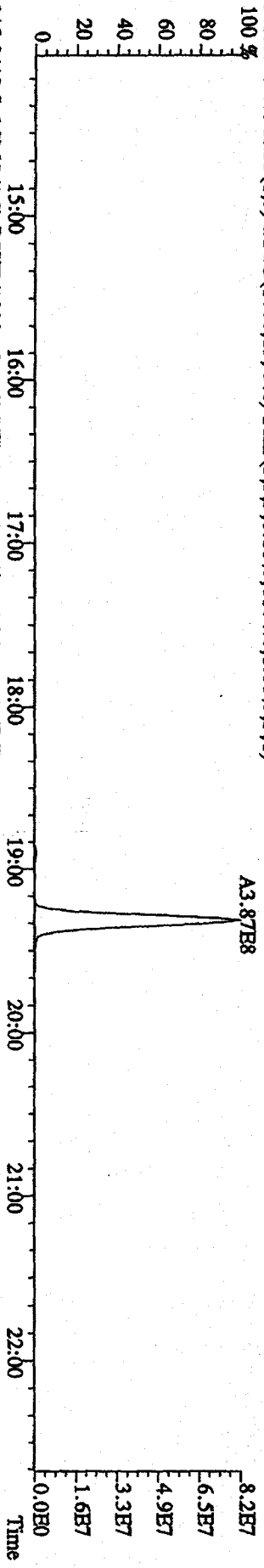
454.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



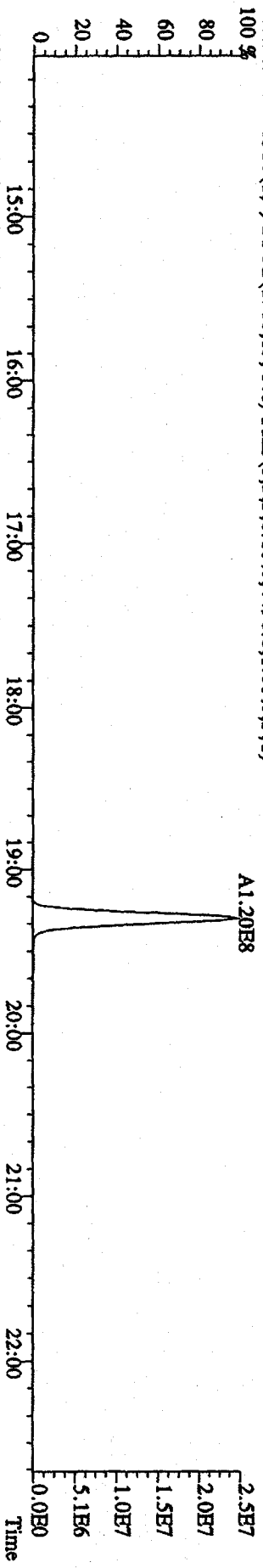
File: 16SEE094D5 #1-601 Acq: 17-SEP-2009 02:27:33 GC: EI + Voltage SIR Autospec-UltimaB
 Sample#6 Text: ST0916D :CS-5 09DXN240 Exp: DIOXIN
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2228.0,1.00%,F,T) 100%



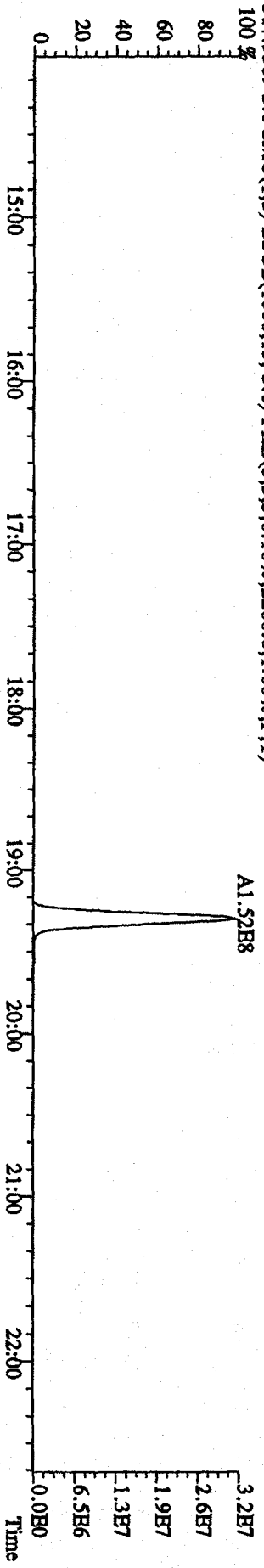
305.8987 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6104.0,1.00%,F,T) 100%



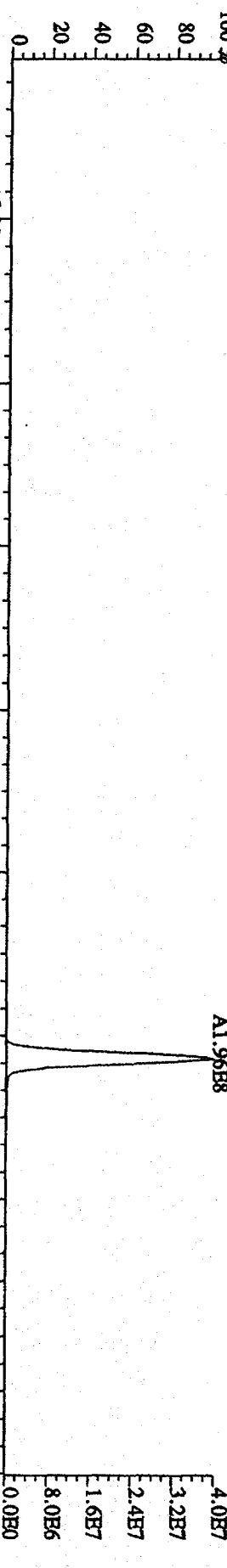
315.9419 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4496.0,1.00%,F,T) 100%



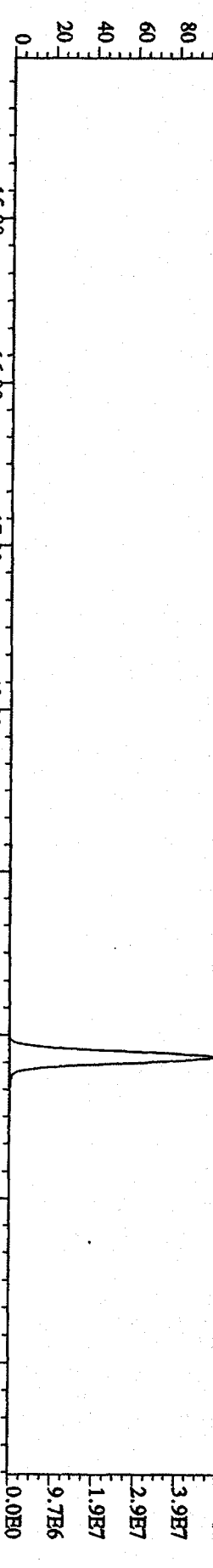
317.9389 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2260.0,1.00%,F,T) 100%



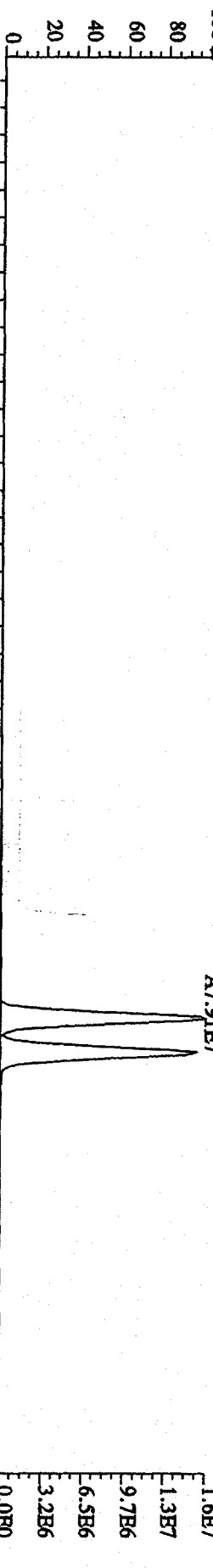
File:16SBE094D5 #1-601 Acq:17-SEP-2009 02:27:33 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST0916D :CS-5 09DXN240 Exp:DIOXIN
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,152.0,1.00%,F,T)



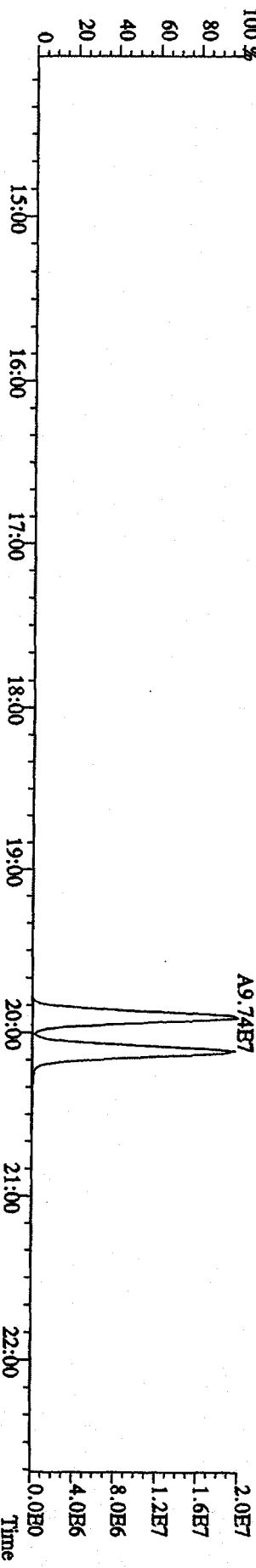
321.8936 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,868.0,1.00%,F,T)



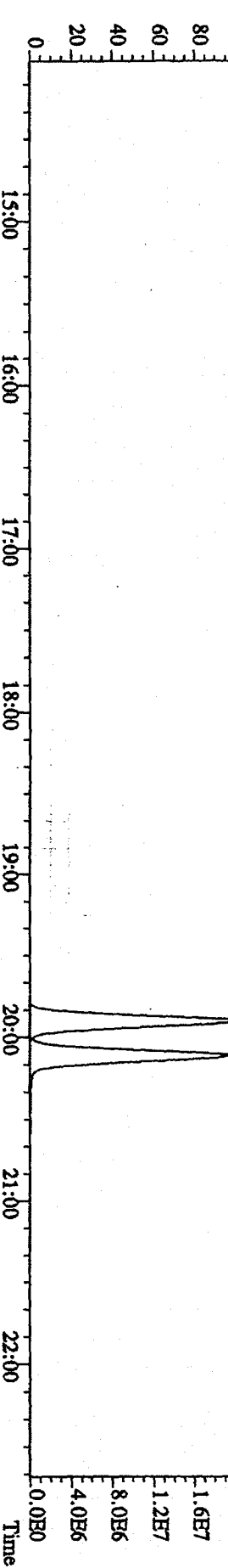
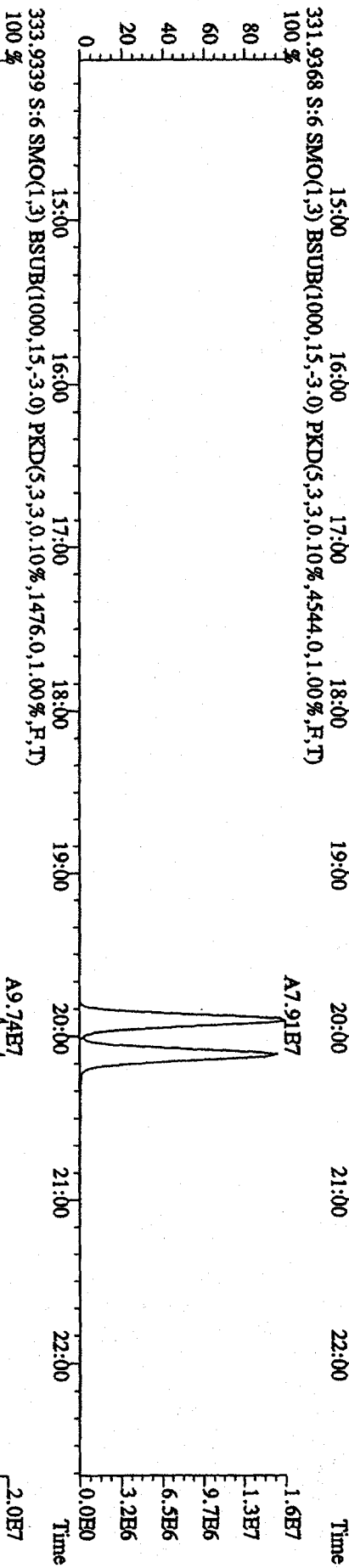
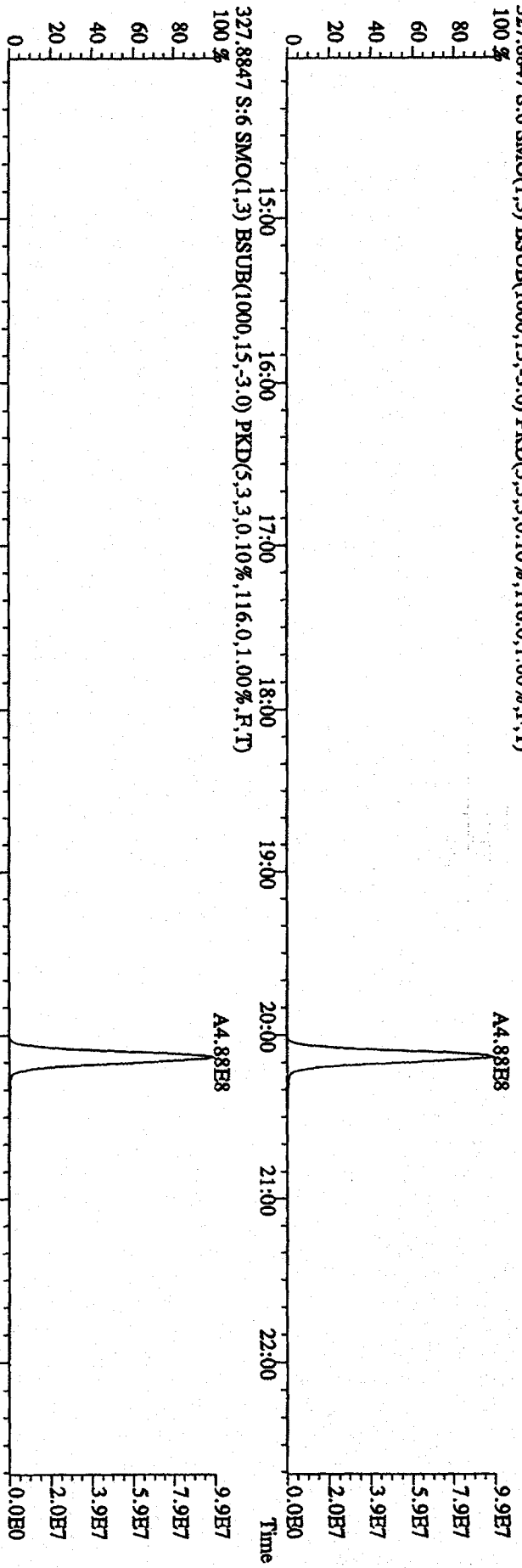
331.9368 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4544.0,1.00%,F,T)



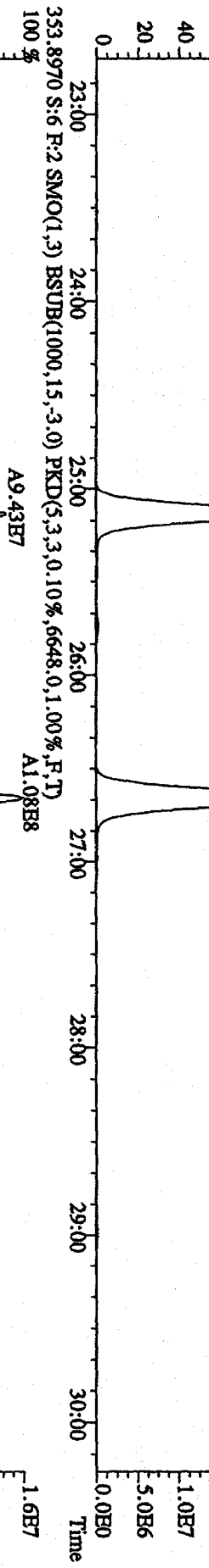
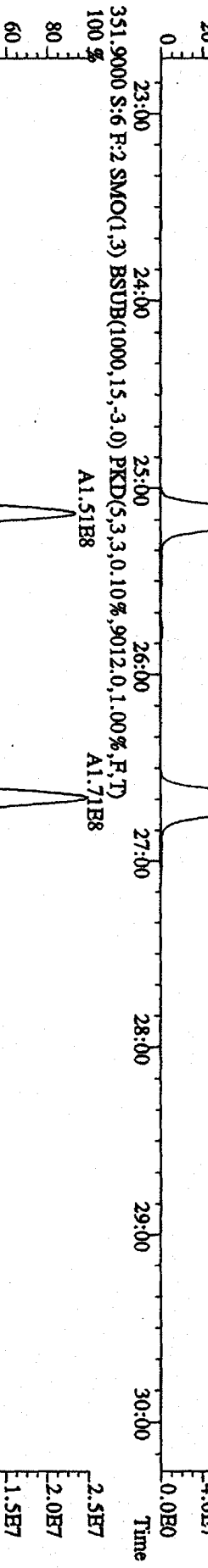
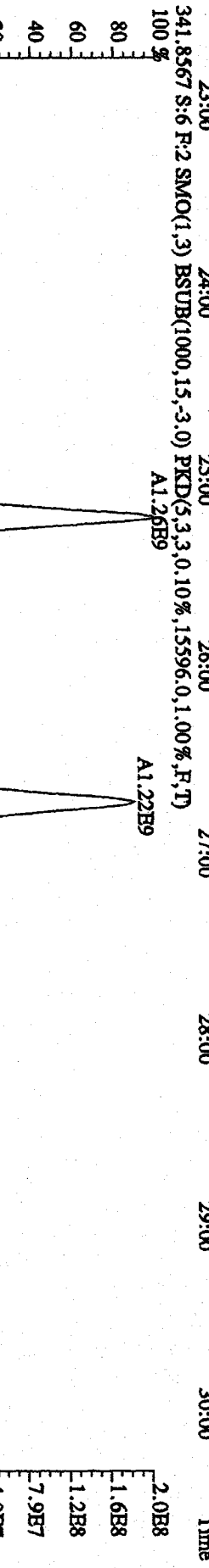
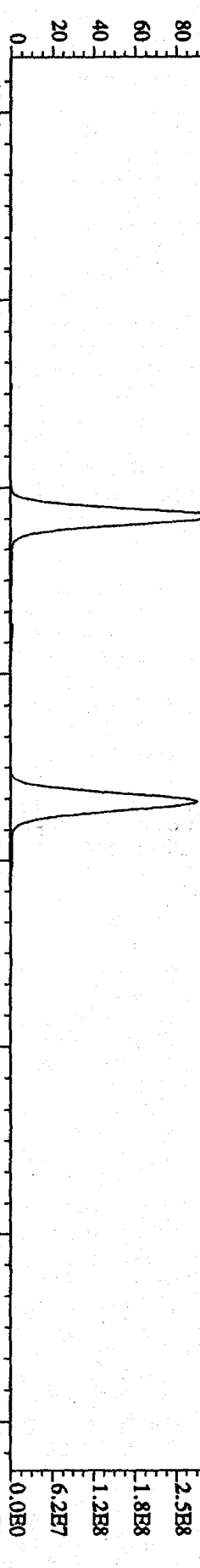
333.9339 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1476.0,1.00%,F,T)



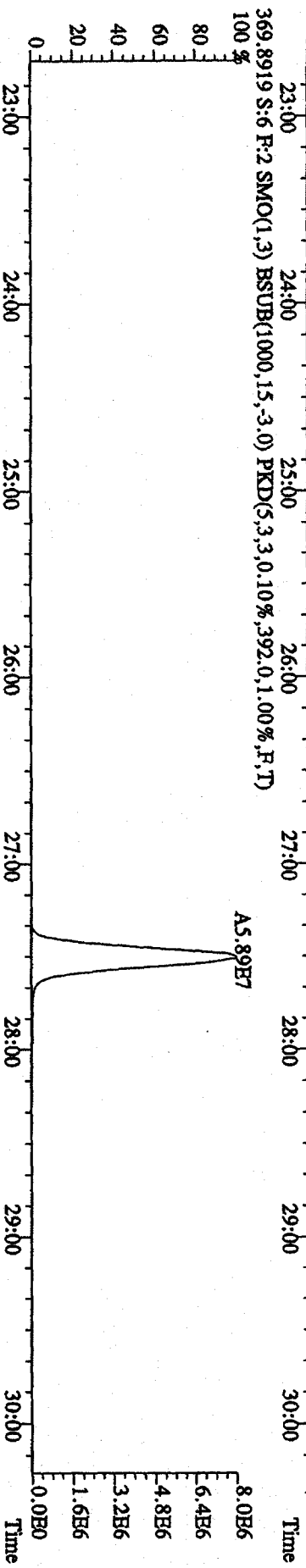
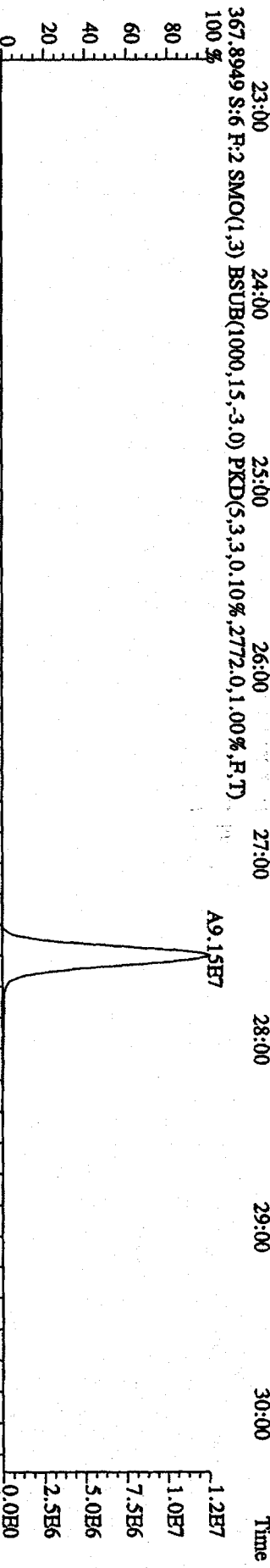
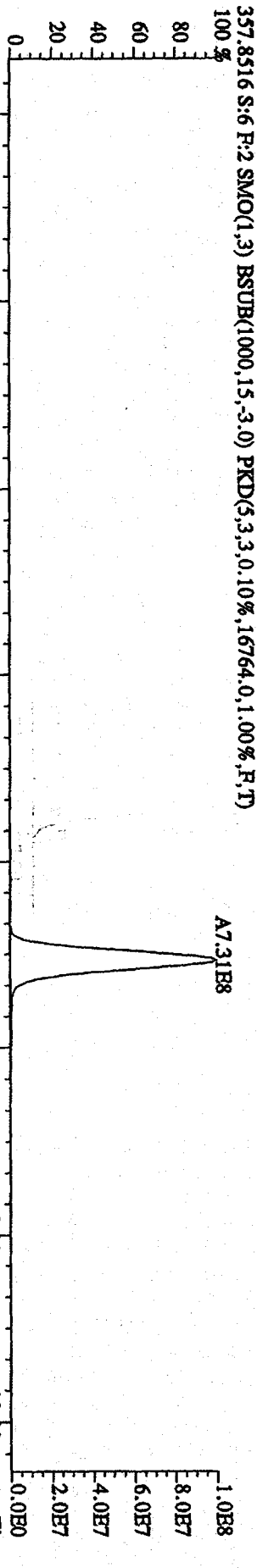
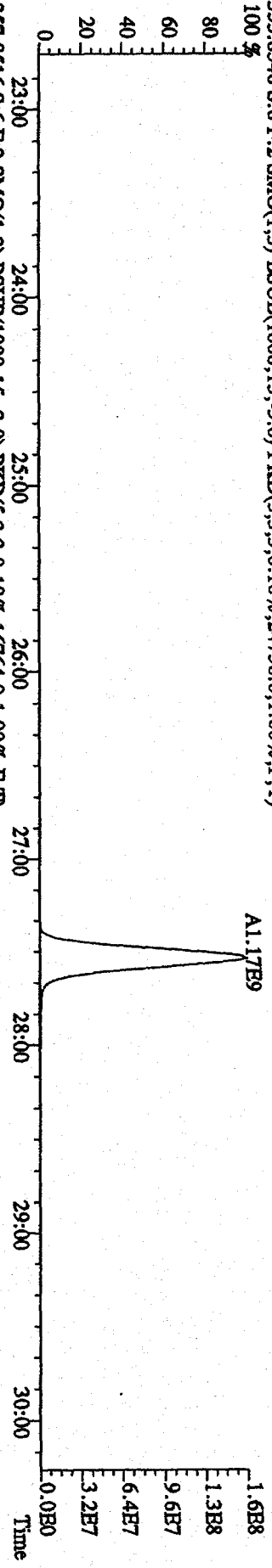
File: 16SE094D5 #1-601 Acq: 17-SEP-2009 02:27:33 GC: EI + Voltage SIR Autospec-UltimaB
 Sample#6 Text: ST0916D : CS-5 09DXN240 Exp: DIOXIN
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,116,0,1,00%,F,T)
 100 %

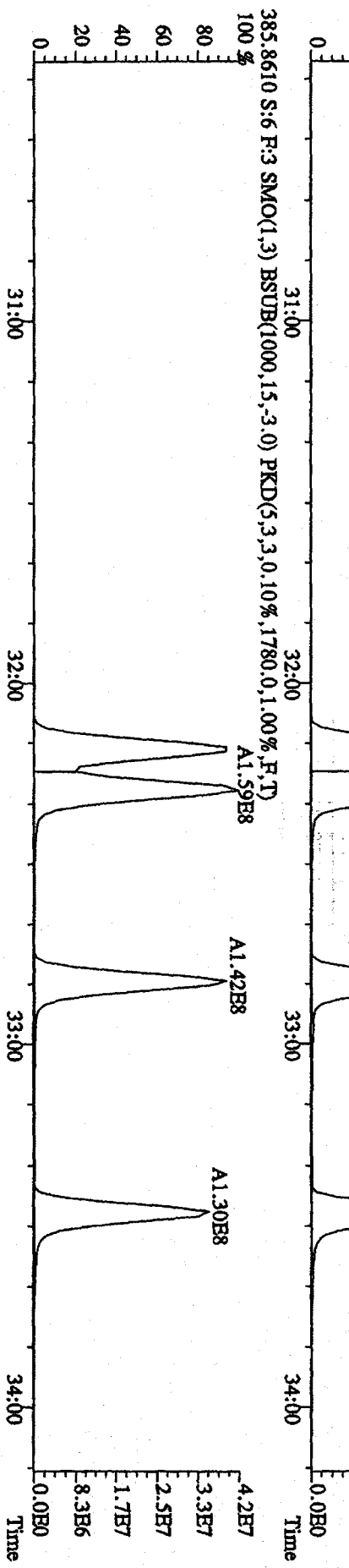
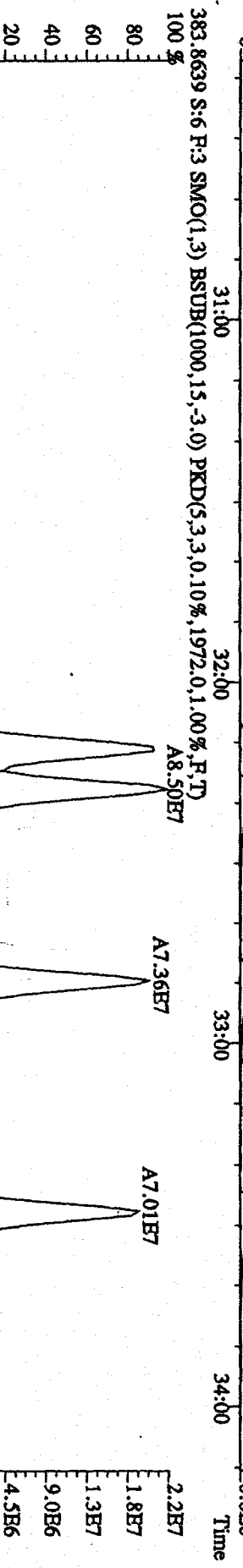
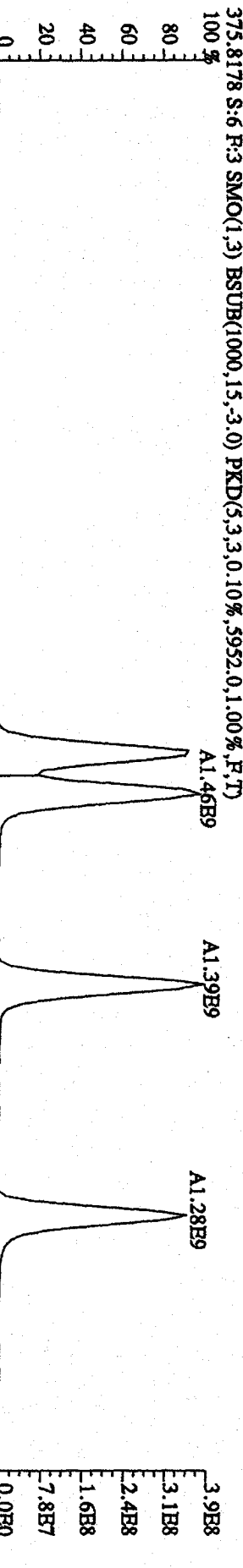
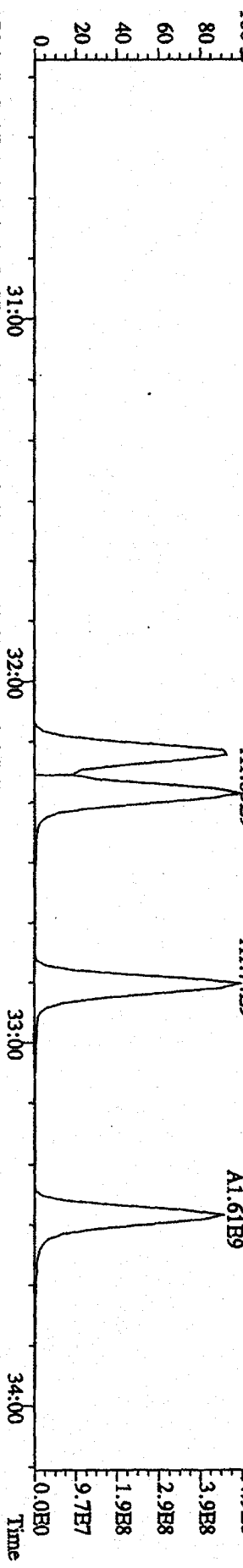


File:16SEB094D5 #1-603 Acq:17-SEP-2009 02:27:33 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST0916D :CS-5 09DXND40 Exp:DIOXIN
 339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,19768,0,1,00%,F,T) A1.97E9

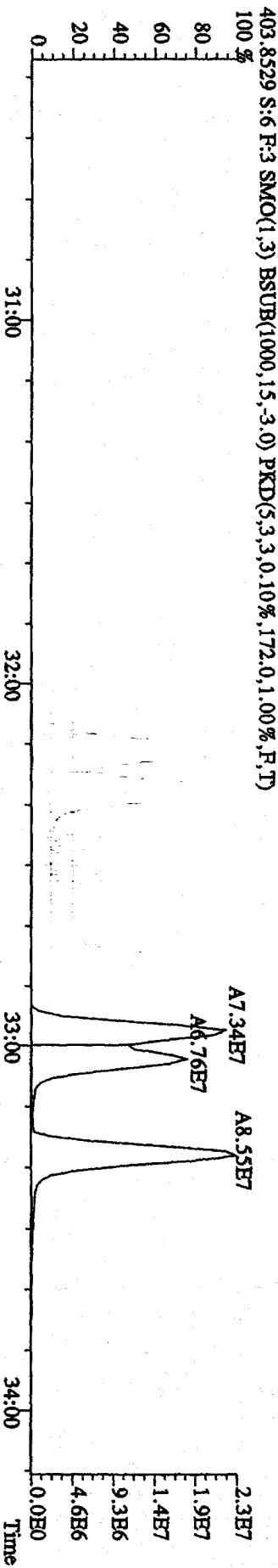
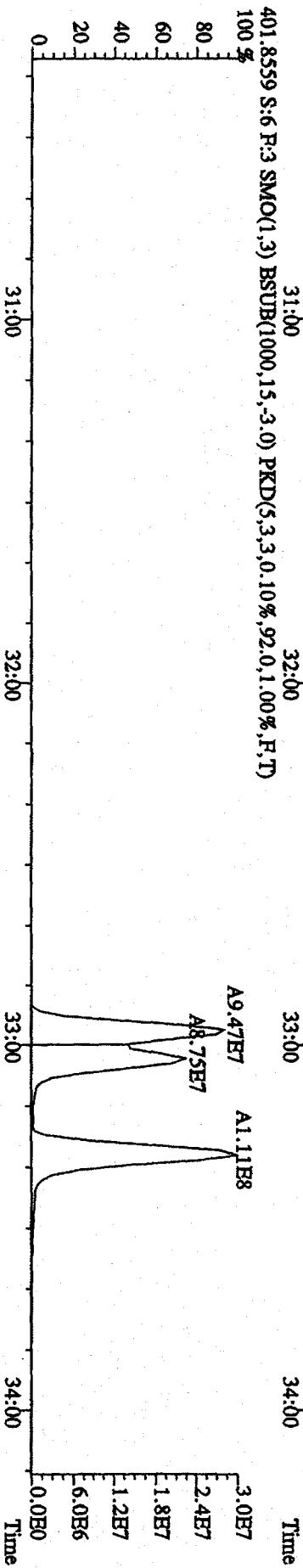
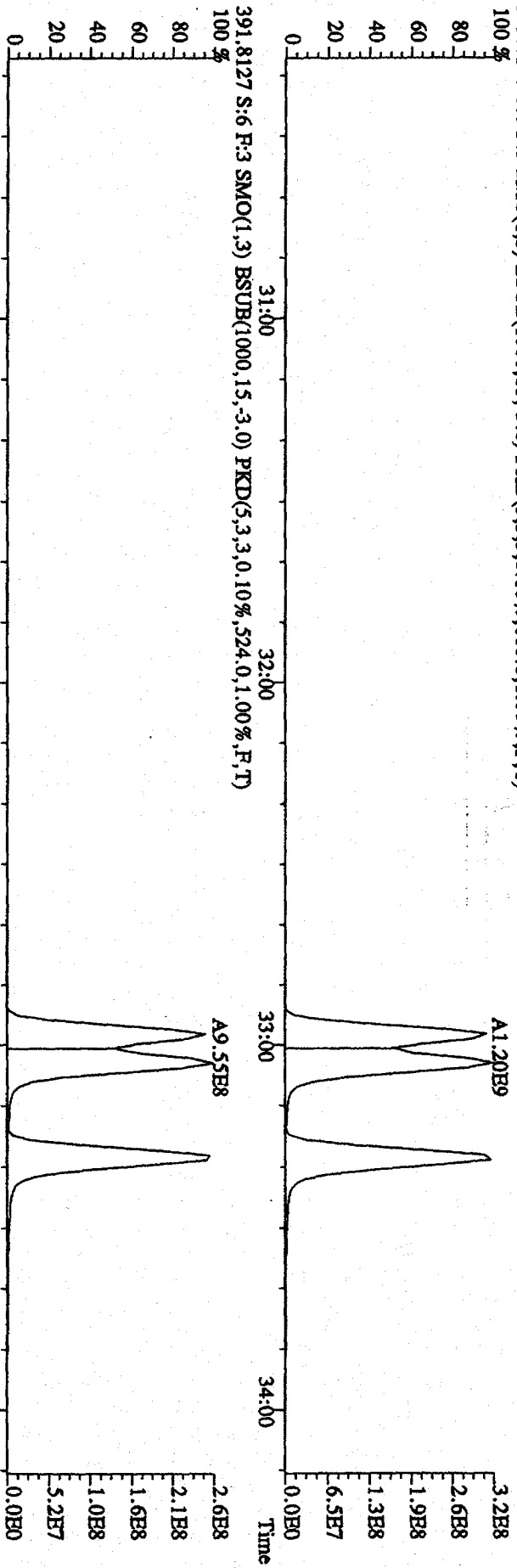


File:16SE094D5 #1-603 Acq:17-SEP-2009 02:27:33 GC EI+ Voltage SIR Autospec-Ultimat
 Sample#6 Text:ST0916D :CS-5 09DXN240 Exp:DIOXIN
 355.8346 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,24756,0,1,00%,F,T) 100%

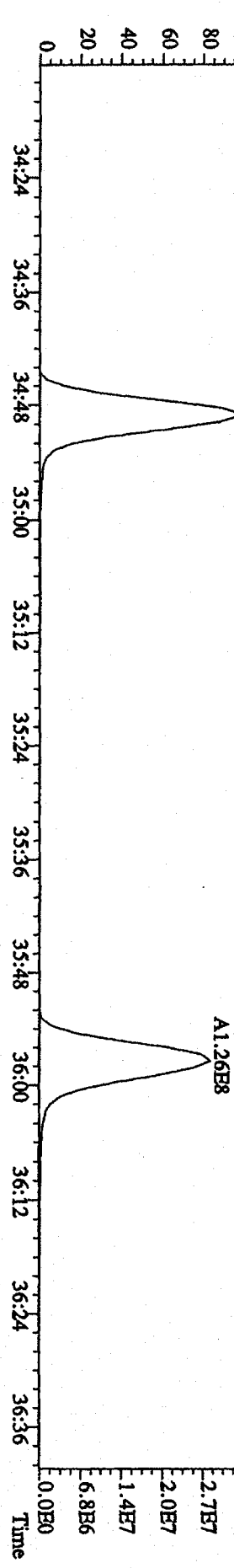
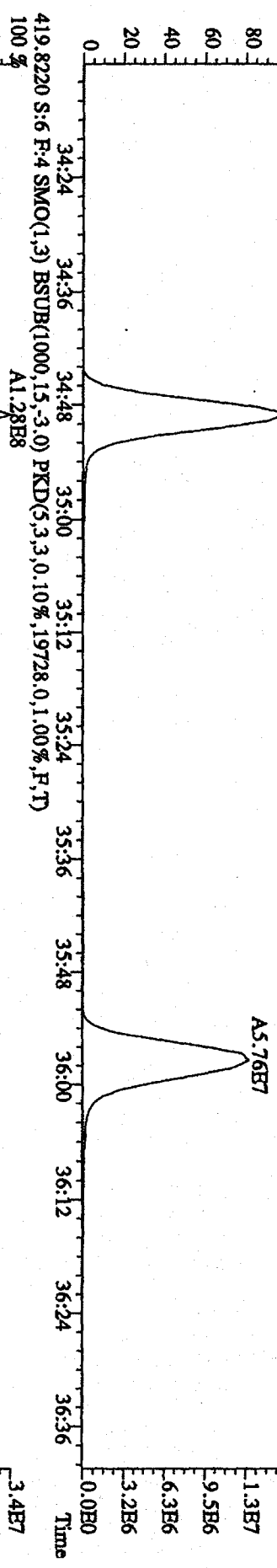
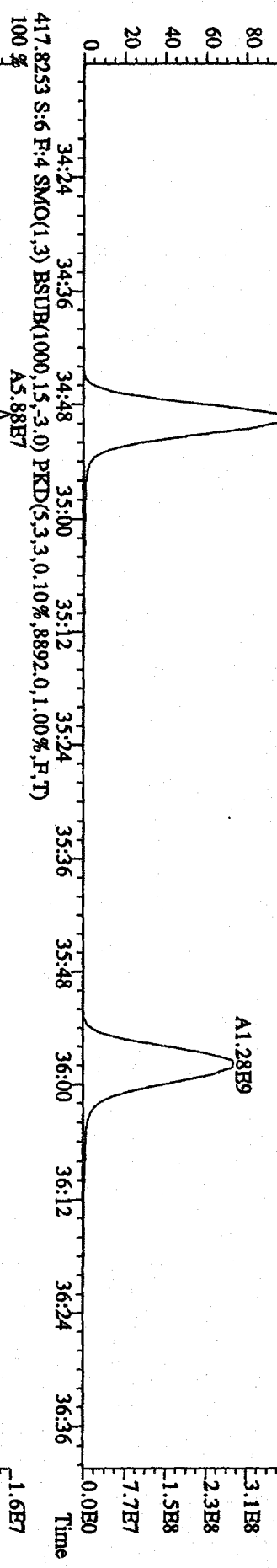
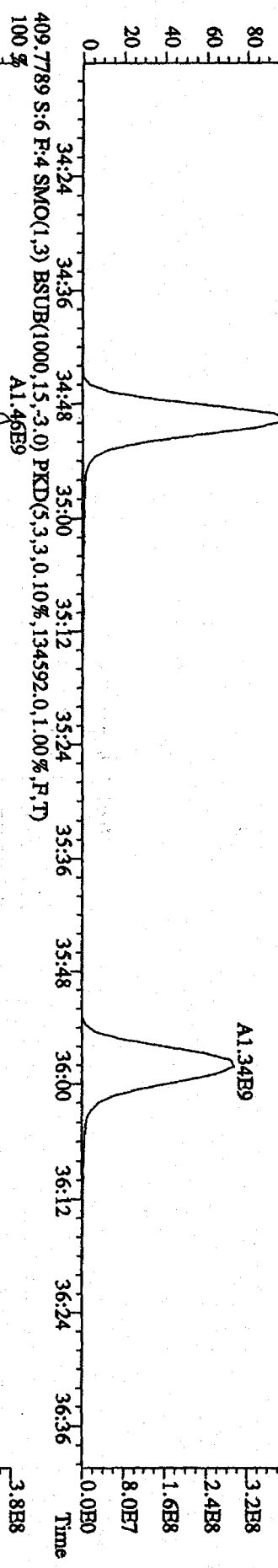




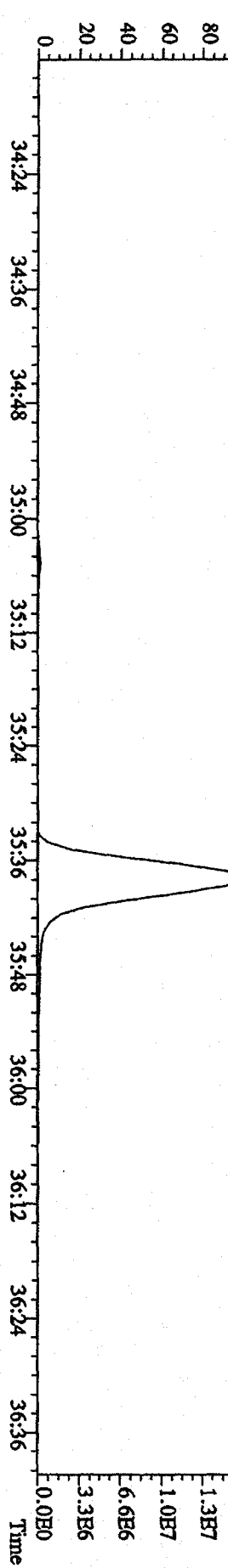
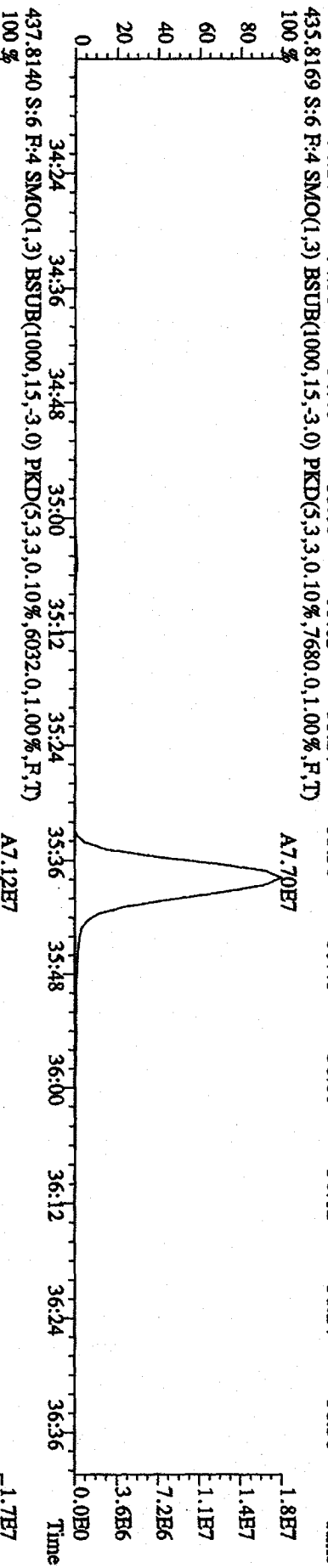
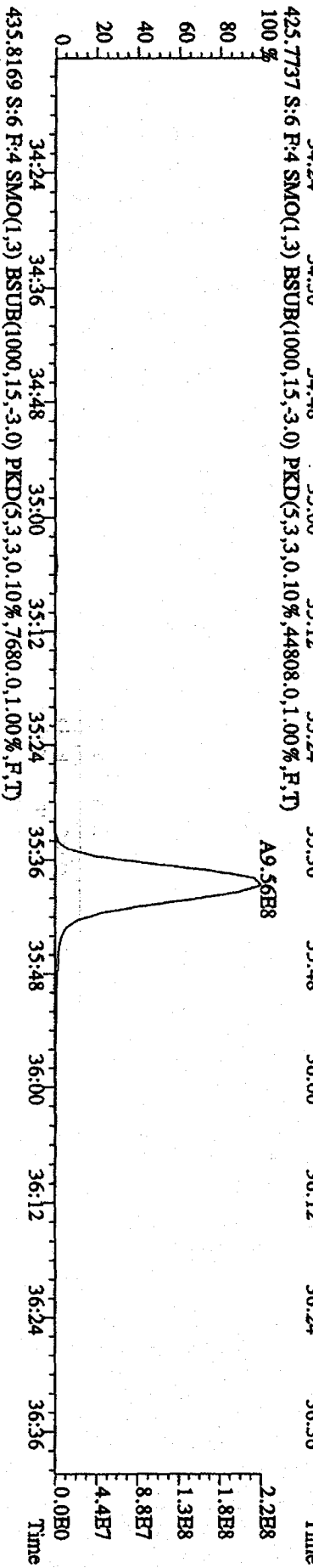
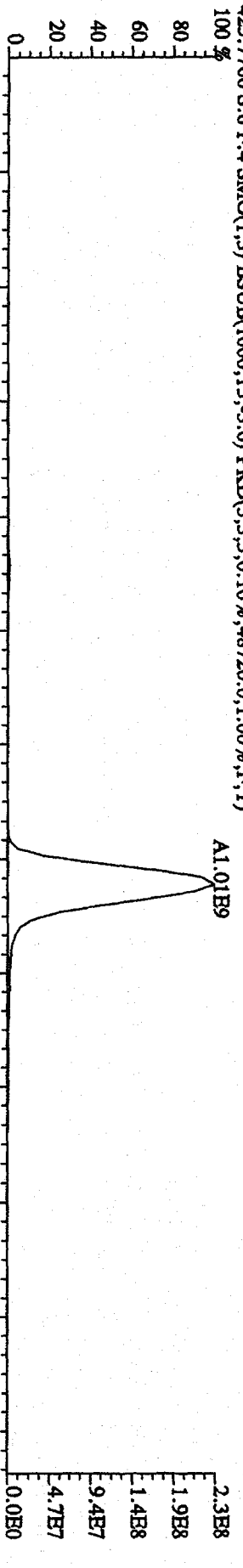
File:16SHE094D5 #1-295 Acq:17-SEP-2009 02:27:33 GC:EI+ Voltage:50V SIR Autospec-Ultimate
 Sample#6 Text:ST0916D :CS-5 09DXN240 Exp:DIOXIN
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,660,0.1,0.00%,F,T)
 100%



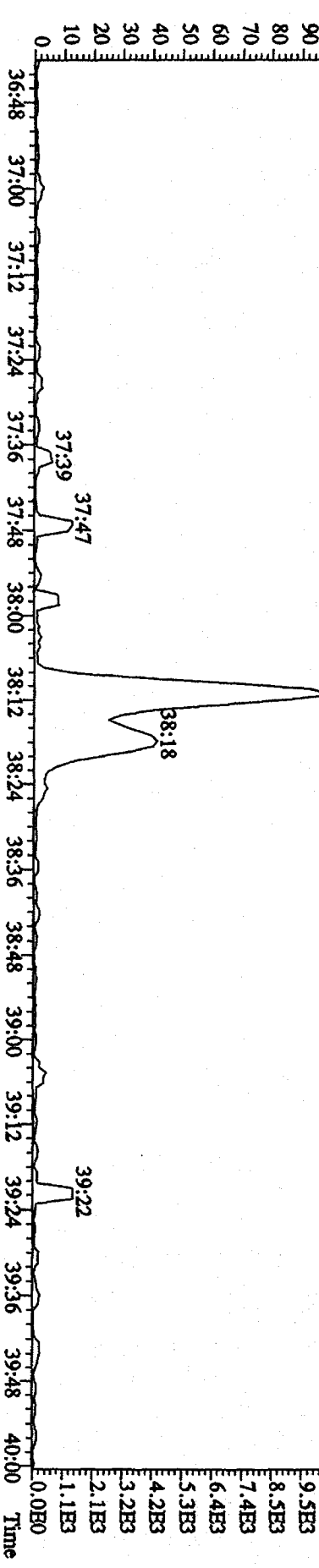
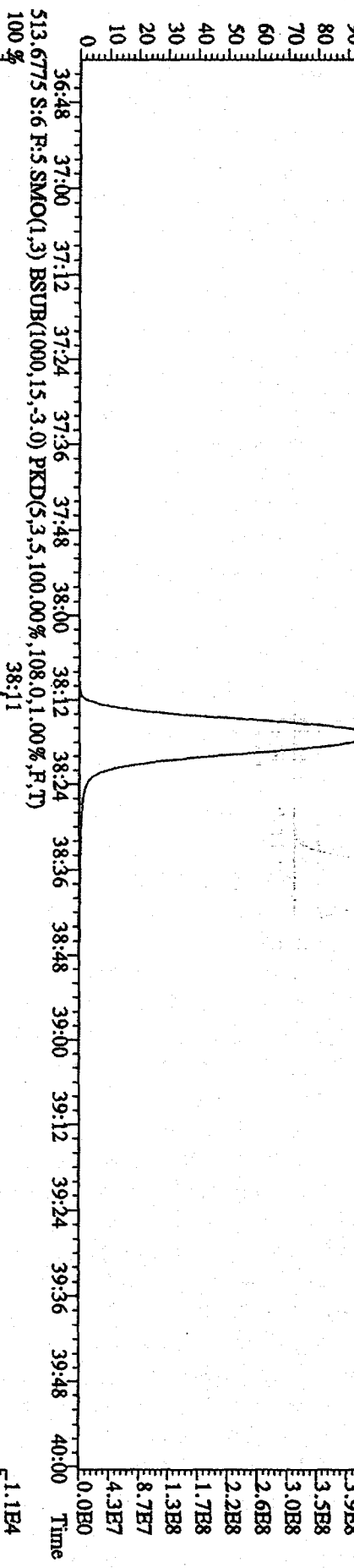
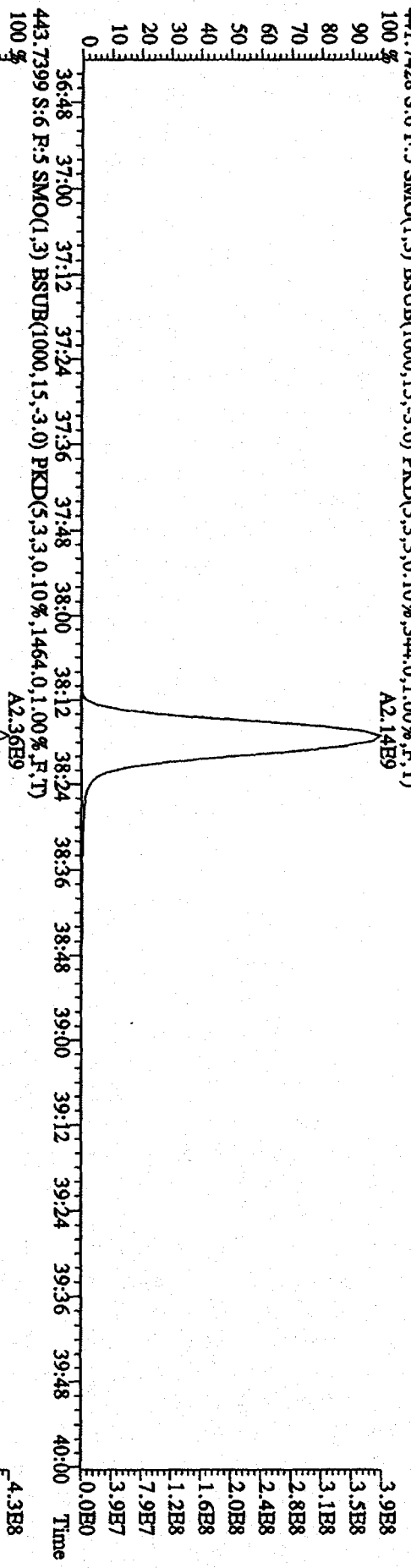
File: 16SSE094D5 #1-198 Acq: 17-SEP-2009 02:27:33 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text: ST0916D :CS-5 09DXN240 Exp: DIOXIN
 407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,161596.0,1.00%,F,T)
 100%



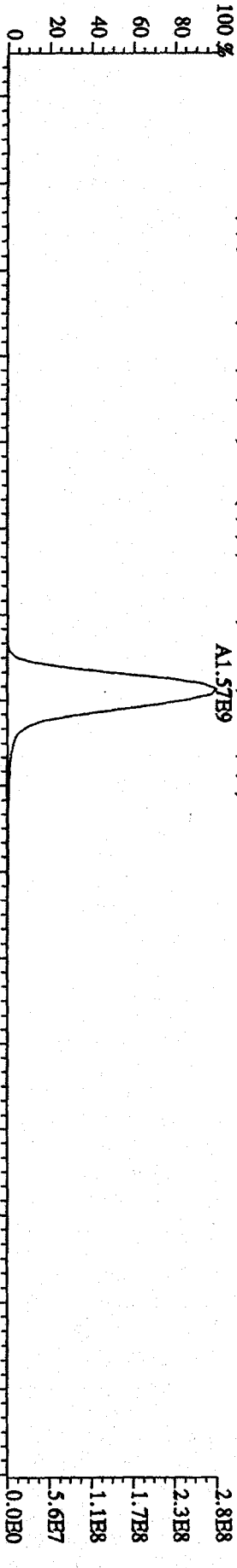
File: 16SH094D5 #1-198 Acq: 17-SEP-2009 02:27:33 GC EI + Voltage SIR Autospec-UltraH
 Sample# 6 Text: ST0916D : CS-5 09DXN240 Exp: DIOXIN
 423.7766 S:6 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,48720,0,1.00%,F,T)



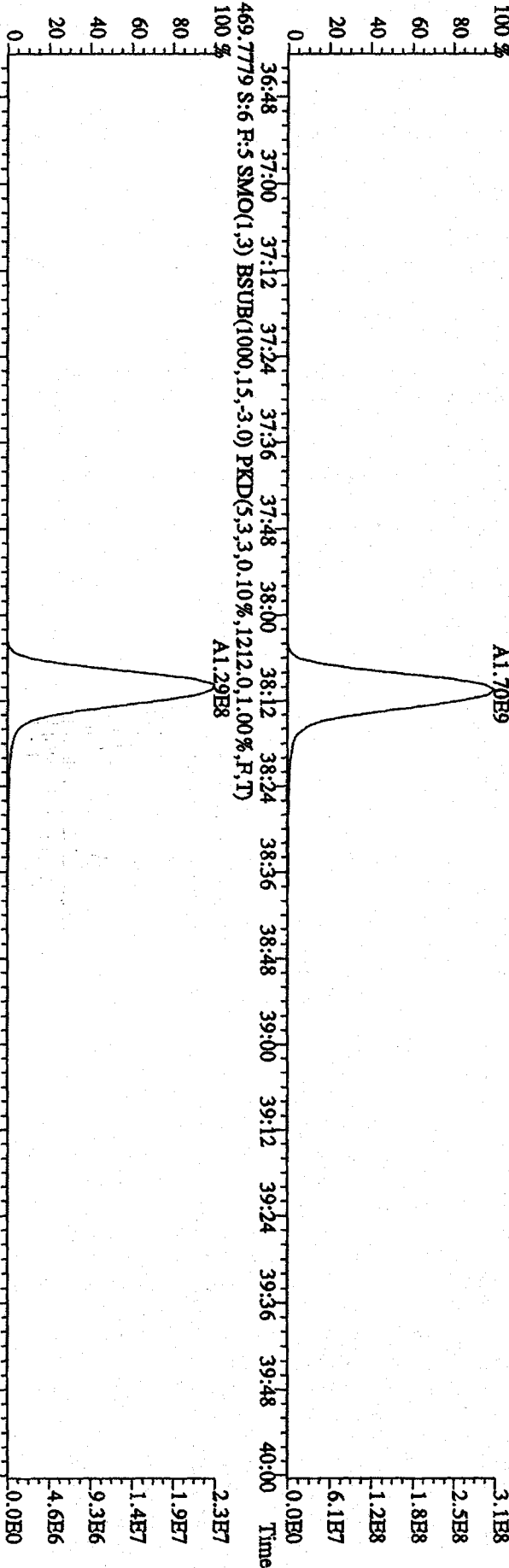
File: 16SB094D5 #1-268 Acq: 17-SEP-2009 02:27:33 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text: ST0916D :CS-5 09DXN240 Exp: DIOXIN
 441.7428 S:6 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,344,0,1,00%,F,T)
 100%



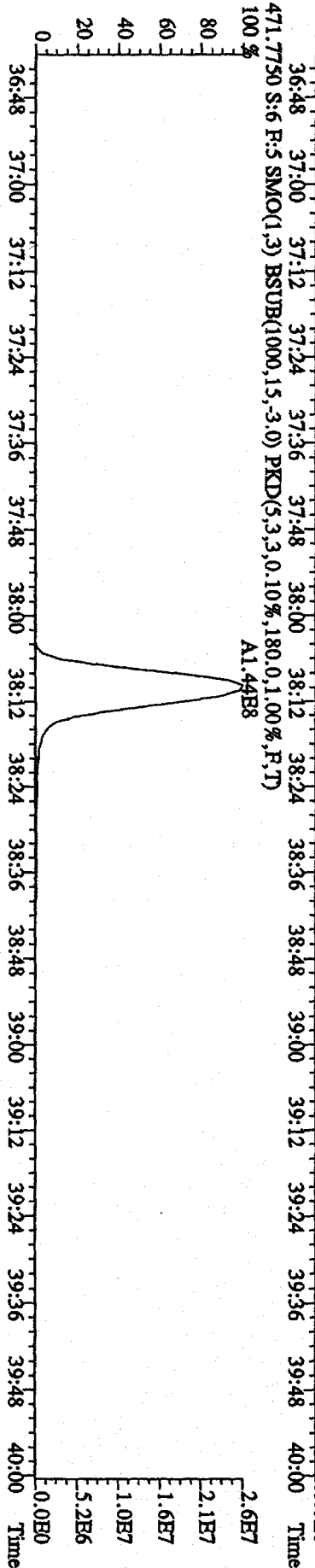
File:16SE094D5 #1-268 Acq:17-SEP-2009 02:27:33 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST0916D :CS-5 09DXN240 Exp:DIOXIN
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8640,0,1,00%,F,T)
 100%



459.7348 S:6 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,14896,0,1,00%,F,T)
 100%



471.7750 S:6 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,180,0,1,00%,F,T)
 100%

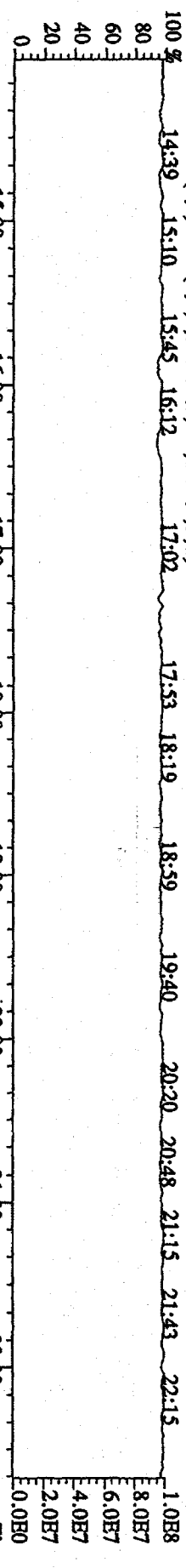


File:16SE094D5 #1-601 Acq:17-SEP-2009 02:27:33 GC BI+ Voltage SIR Autospec-UltimaB

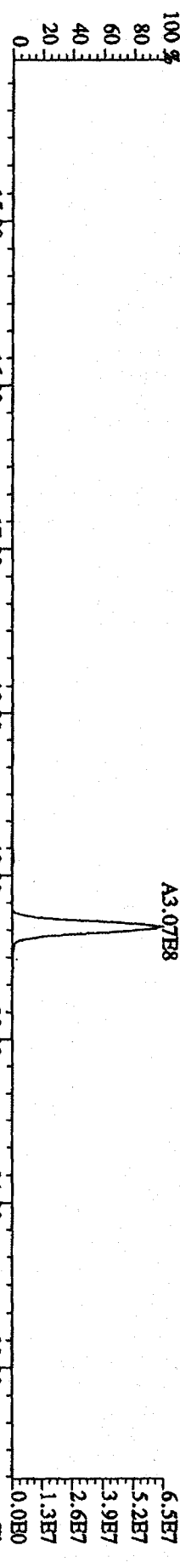
Sample#6 Text:ST0916D :CS-5 09DXN240 Exp:DIOXIN

292.9825 S:6 SMO(1.3) PKD(5.3,5,100.00%,0.0,1.00%,F,T)

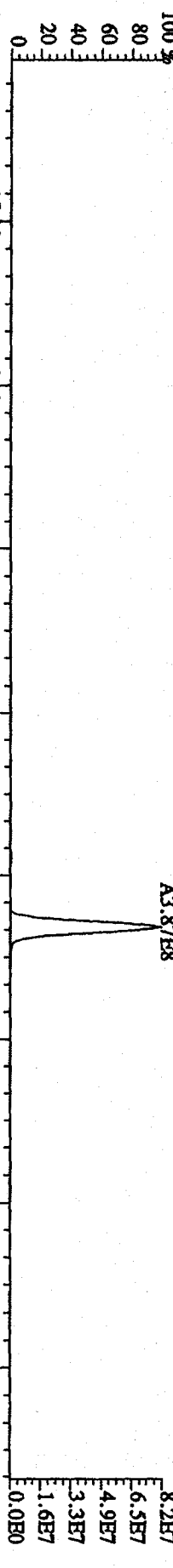
100% 14:39 15:10 15:45 16:12 17:02 17:53 18:19 18:59 19:40 20:20 20:48 21:15 21:43 22:15



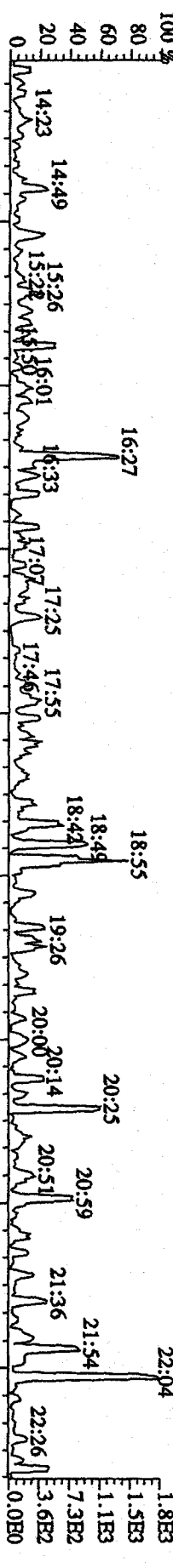
303.9016 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,2228.0,1.00%,F,T)



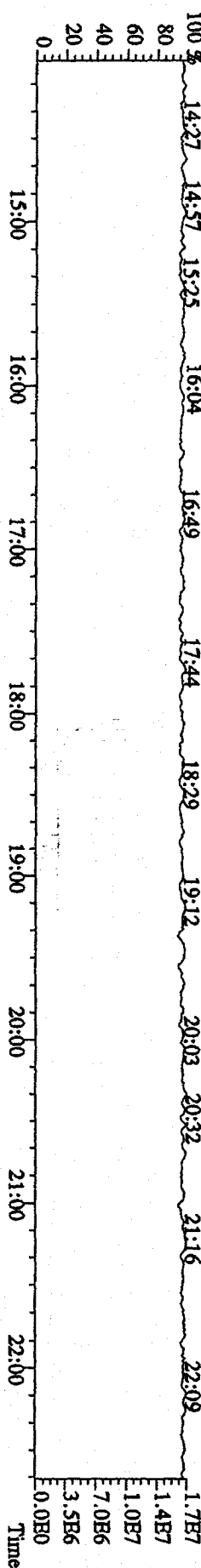
305.8987 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,6104.0,1.00%,F,T)



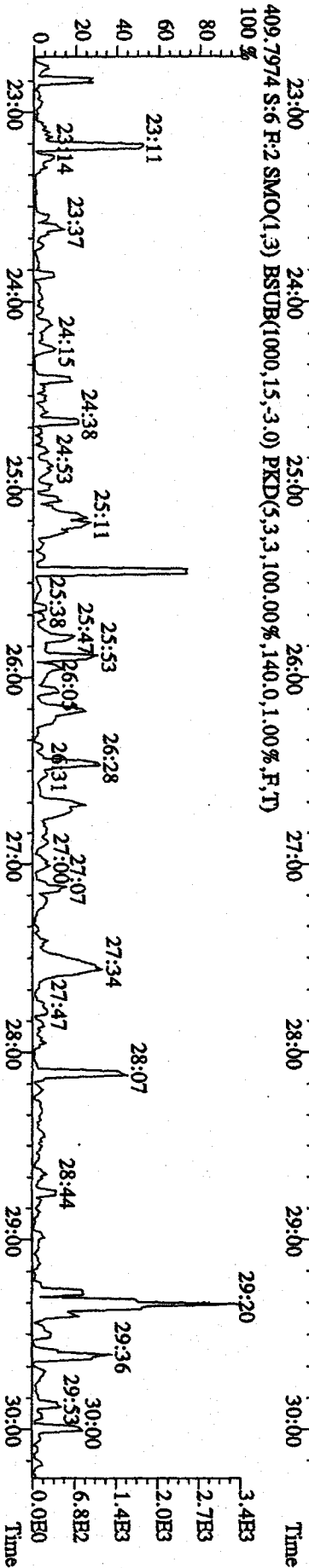
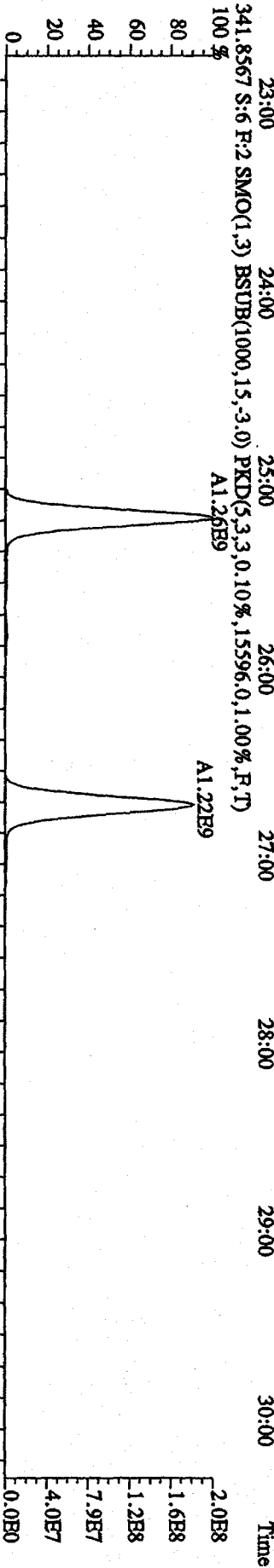
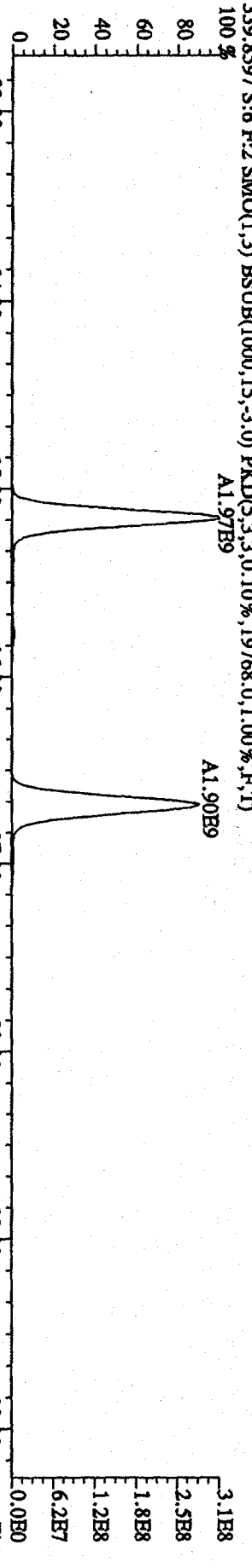
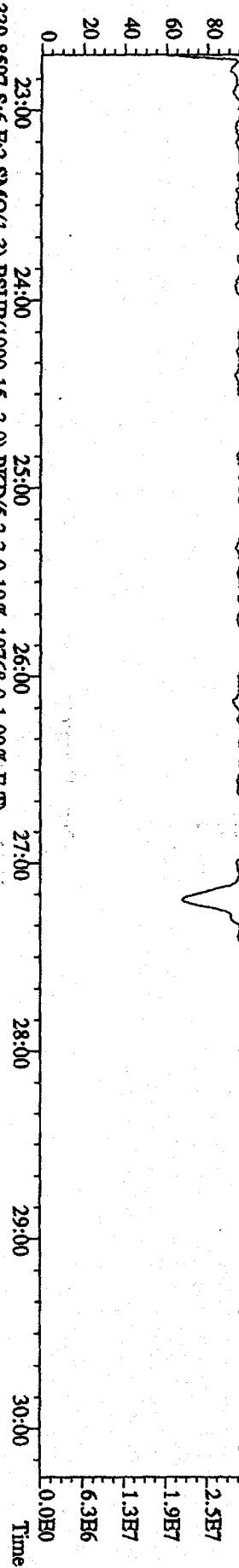
375.8364 S:6 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,104.0,1.00%,F,T)



330.9792 S:6 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



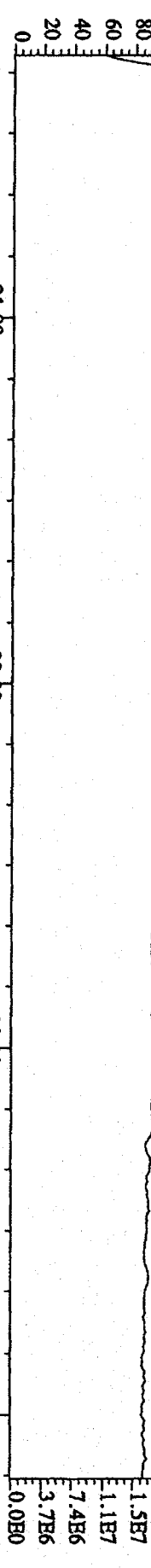
File: 16SE094D5 #1-603 Acq: 17-SEP-2009 02:27:33 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text: ST0916D :CS-5 09DXN240 Exp: DIOXIN
 342.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 23:02 23:44 24:34 25:10 25:52 26:57 27:34 28:40 29:10 30:15



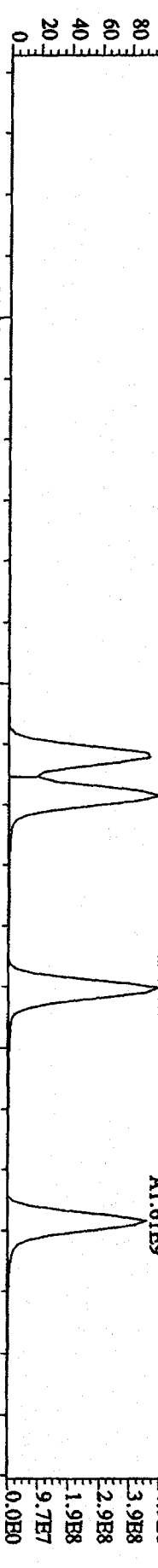
File:16SEB094D5 #1-295 Acq:17-SEP-2009 02:27:33 GC EI + Voltage SIR Autospec-Uhlmah

Sample#6 Text:ST0916D :CS-5 09DXN240 Exp:DIOXIN

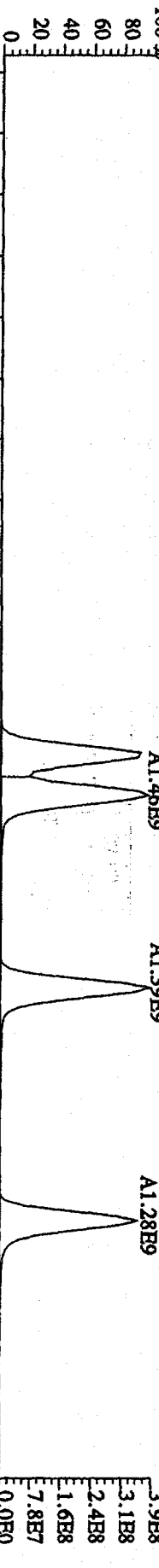
392.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



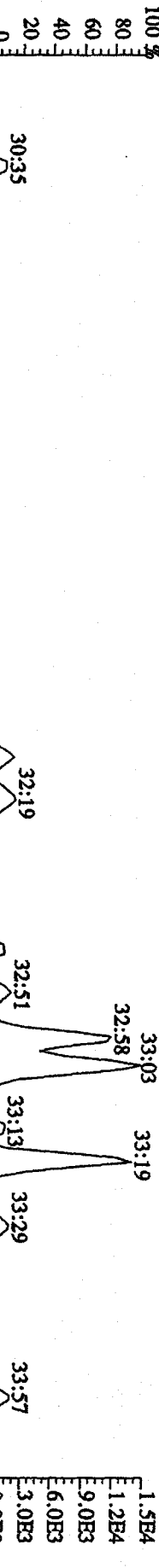
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6820.0,1.00%,F,T)



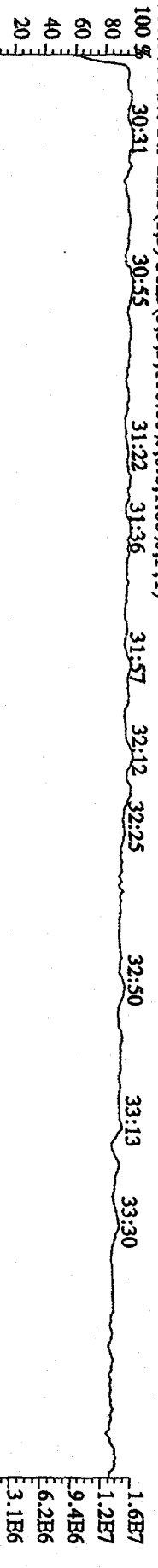
375.8178 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5952.0,1.00%,F,T)



445.7555 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,148.0,1.00%,F,T)



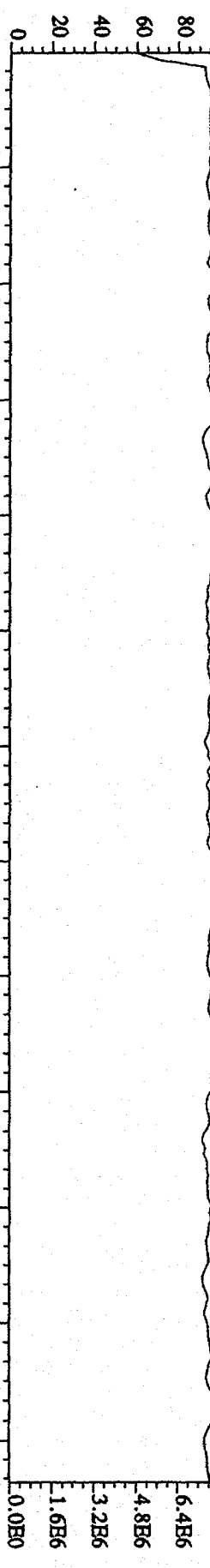
380.9760 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



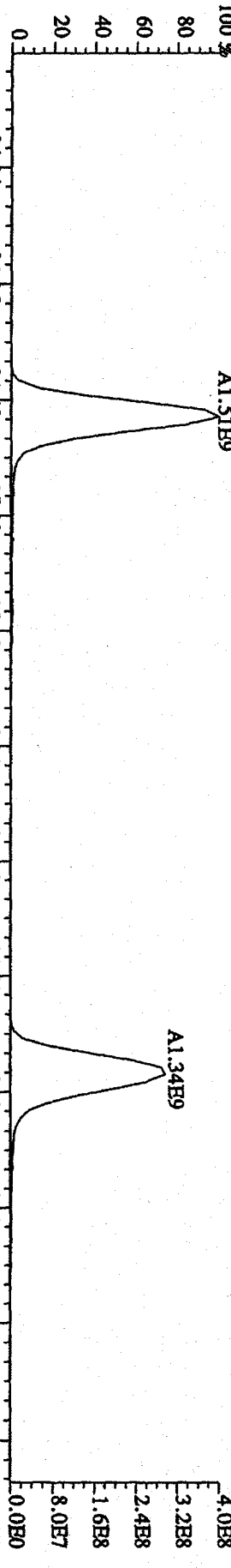
File:16SB094D5 #1-198 Acq:17-SEP-2009 02:27:33 GC HI + Voltage SIR Autospec-Ultima

Sample#6 Text:ST0916D :CS-5 09DXN240 Exp:DIOXIN

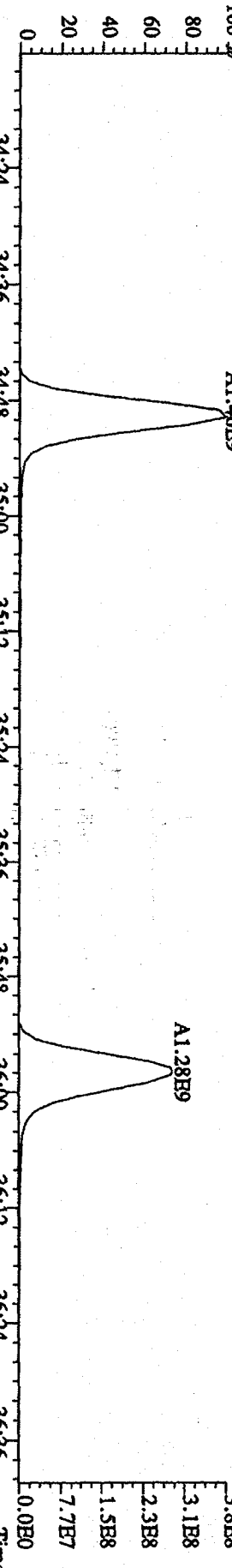
430.9728 S:6 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



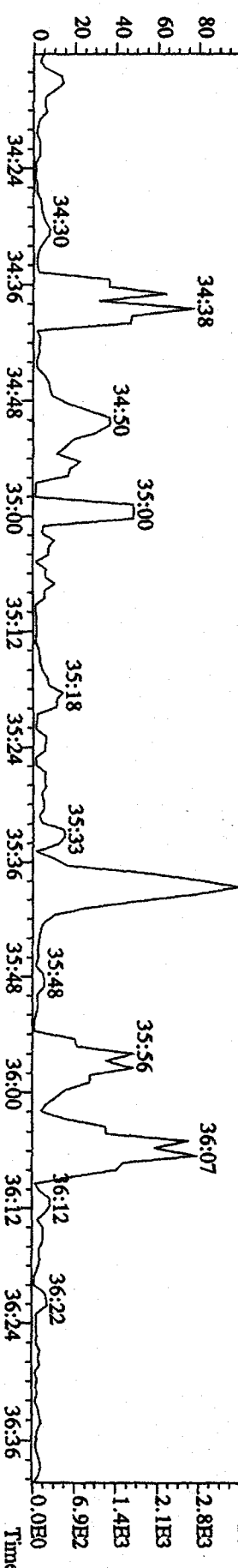
407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,161596.0,1.00%,F,T)



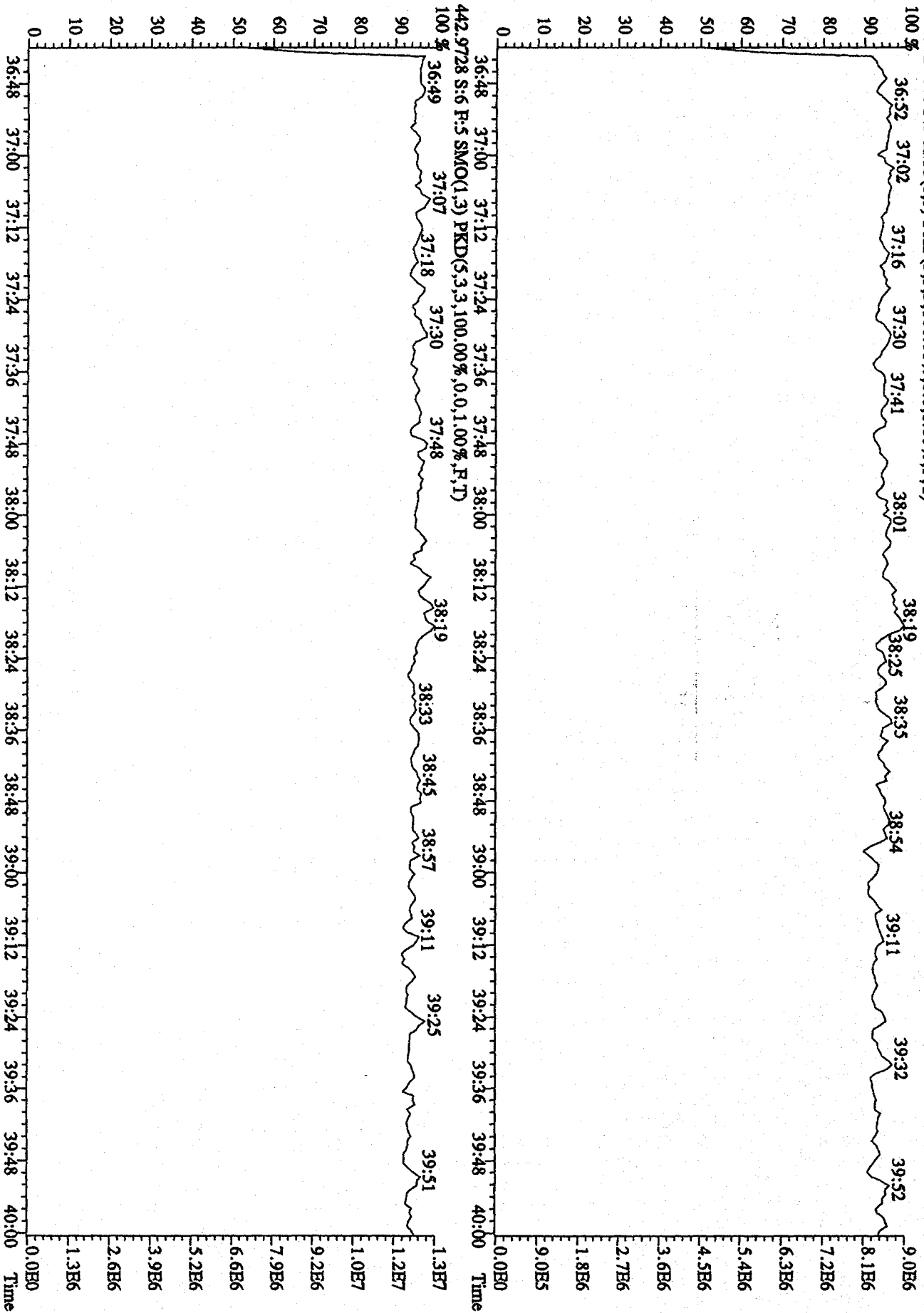
409.7789 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,134592.0,1.00%,F,T)



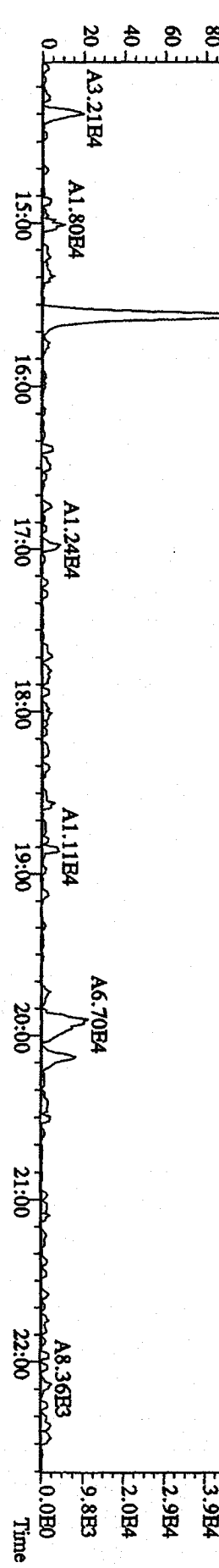
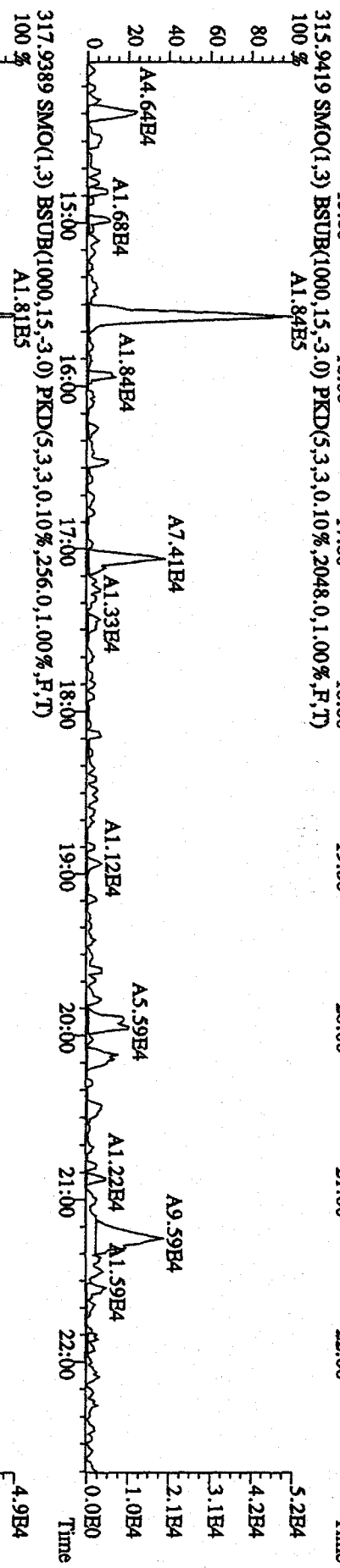
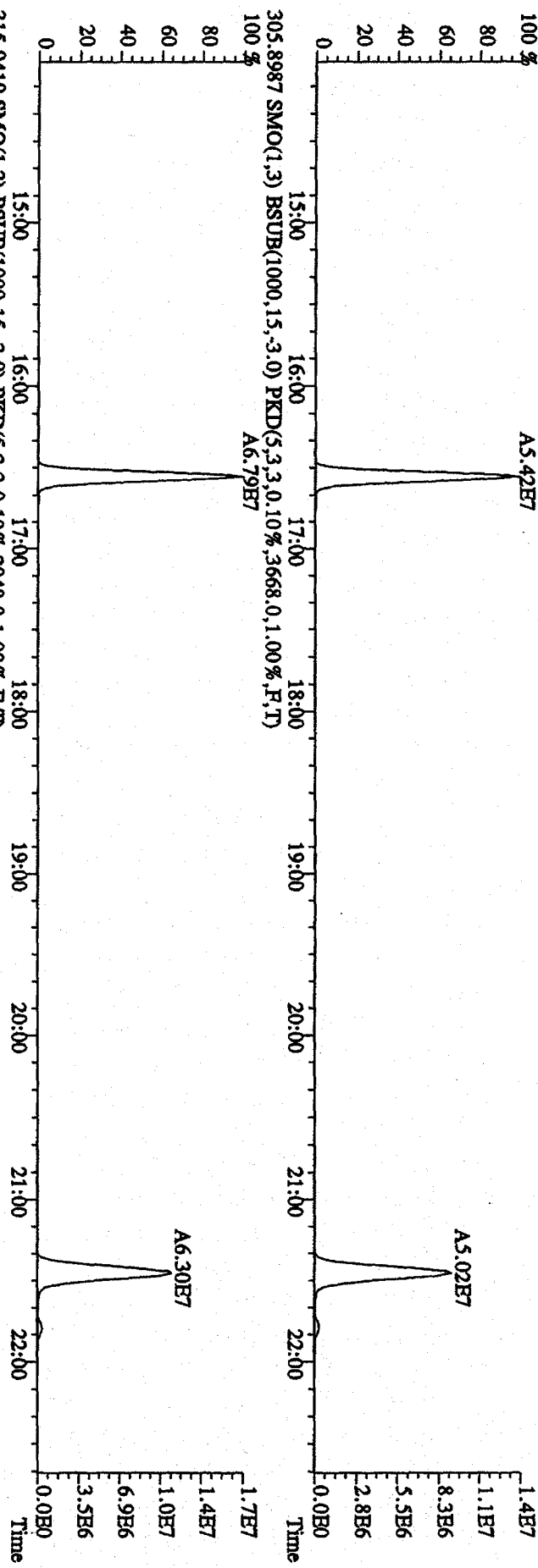
479.7165 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,224.0,1.00%,F,T)



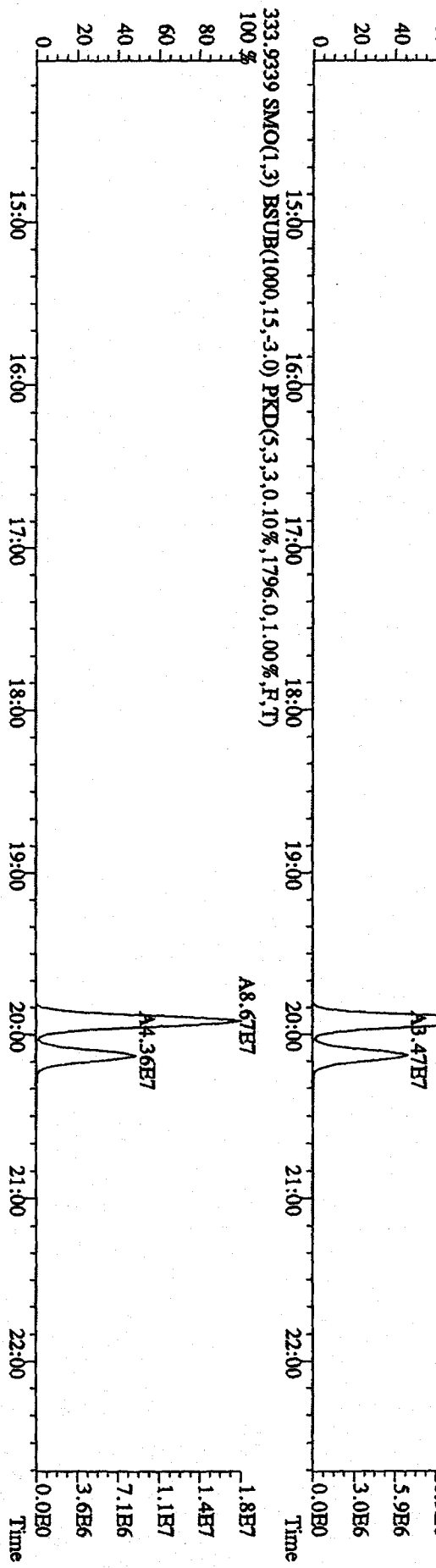
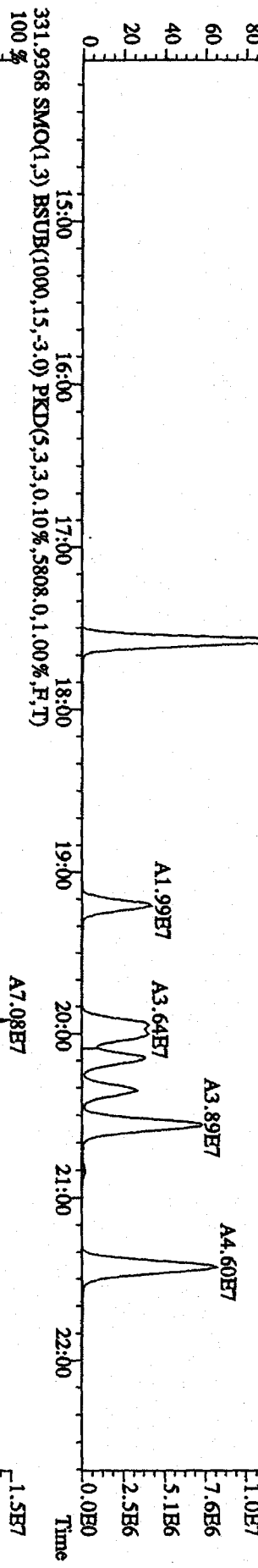
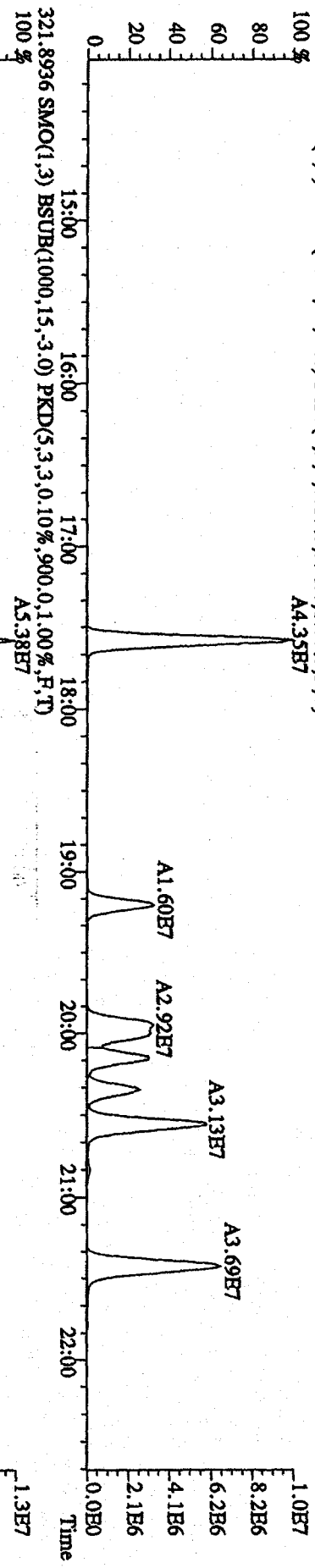
File: 16SH094D5 #1-268 Acq: 17-SEP-2009 02:27:33 GC HI+ Voltage SFR Autospec-UltimaB
 Sample#6 Text: ST0916D :CS-5-09DXN240 Exp: DIOXIN
 454.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



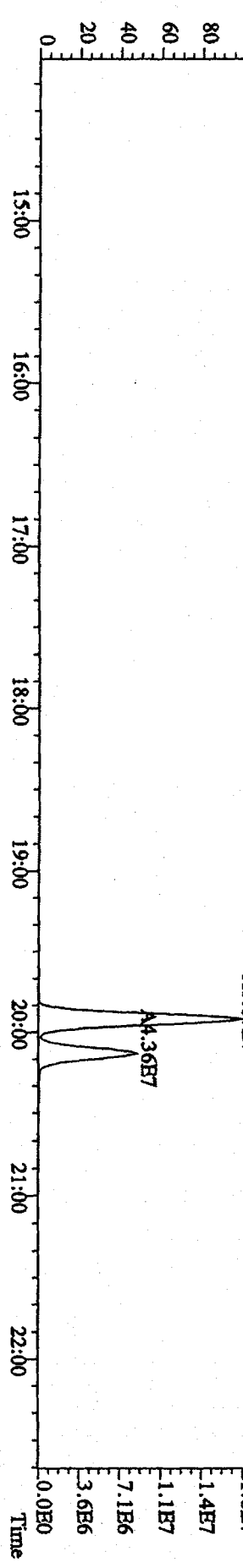
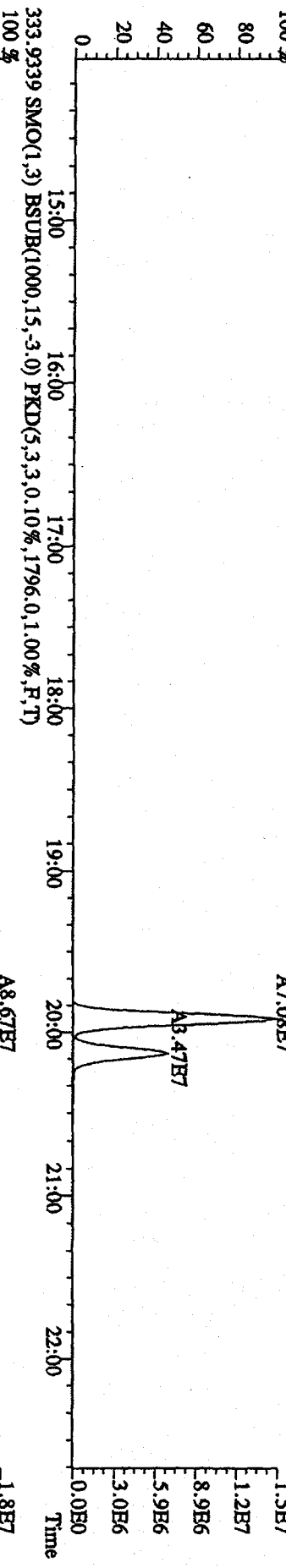
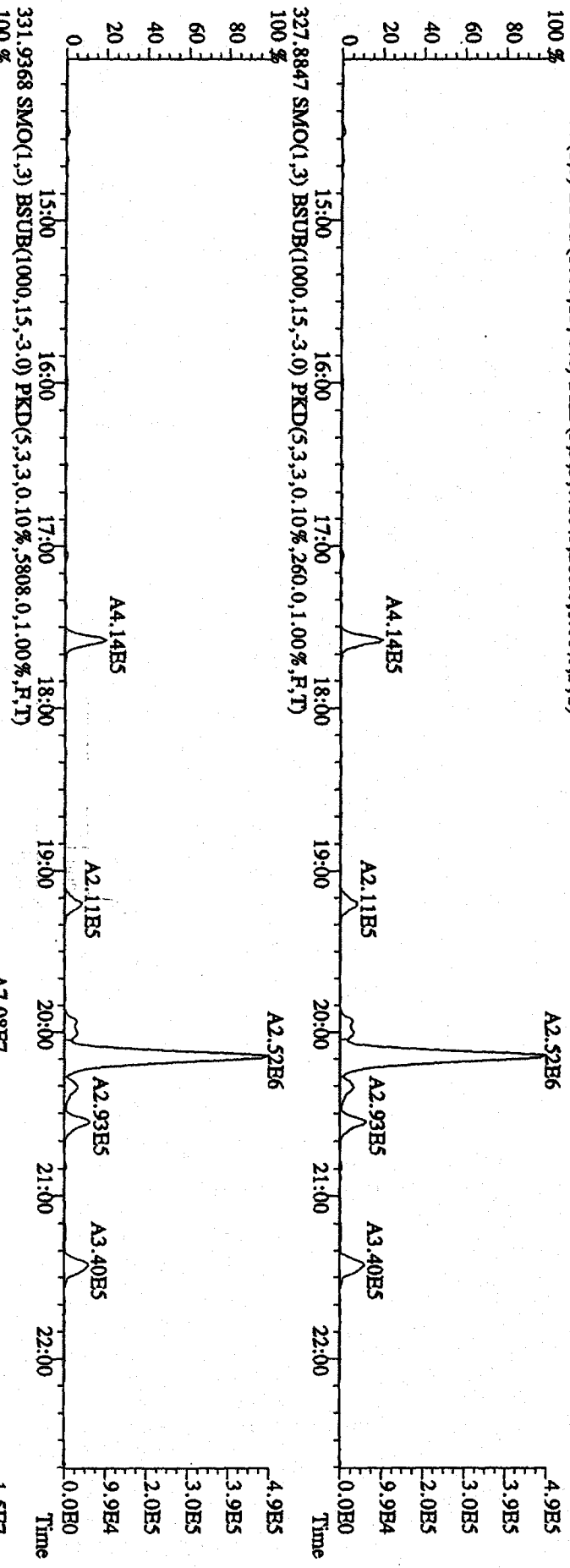
File:16SEB094D5 #1-601 Acq:16-SEP-2009 22:46:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:CP0916 :DB-5 CP5M 3732-02 Exp:DIOXIN
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2216,0,1.00%,F,T)
 100%



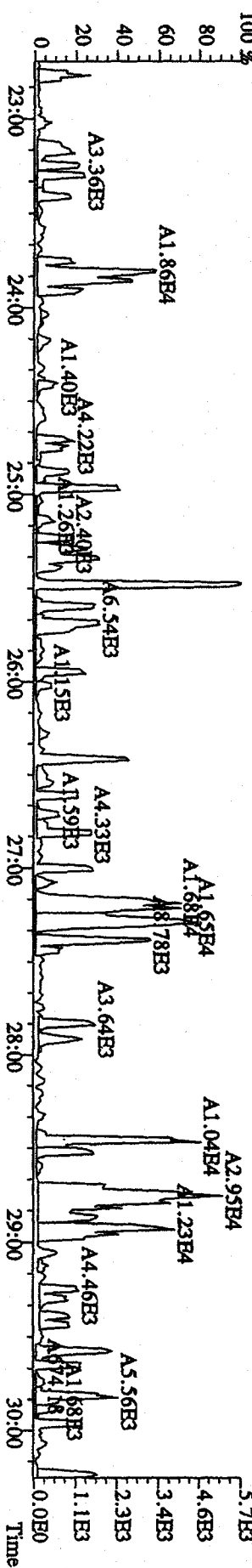
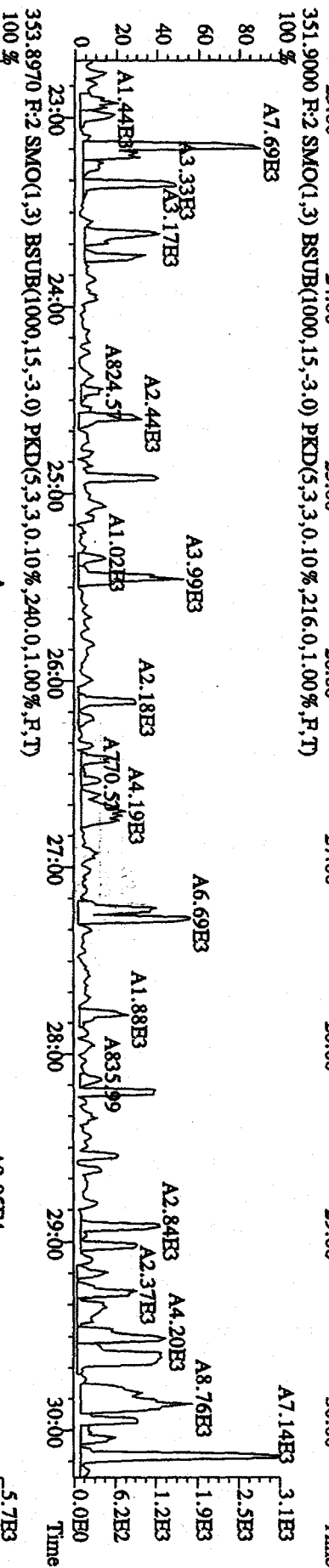
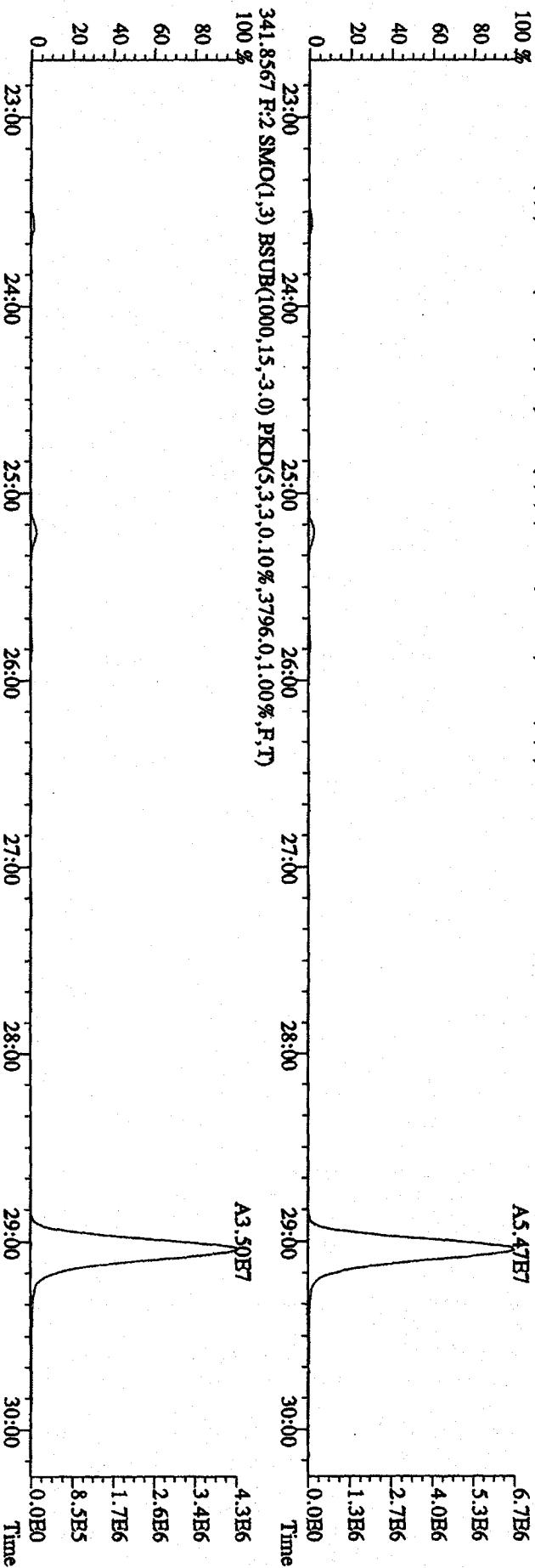
File: 16SE094D5 #1-601 Acq: 16-SEP-2009 22:46:29 GC: EI + Voltage SIR Autospec-UltimaB
 Sample#1 Text: CP0916 : DB-5 CPSM 3732-02 Exp: DIOXIN
 319,8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.996,0.1,0.00%,F,T)
 A4.35E7



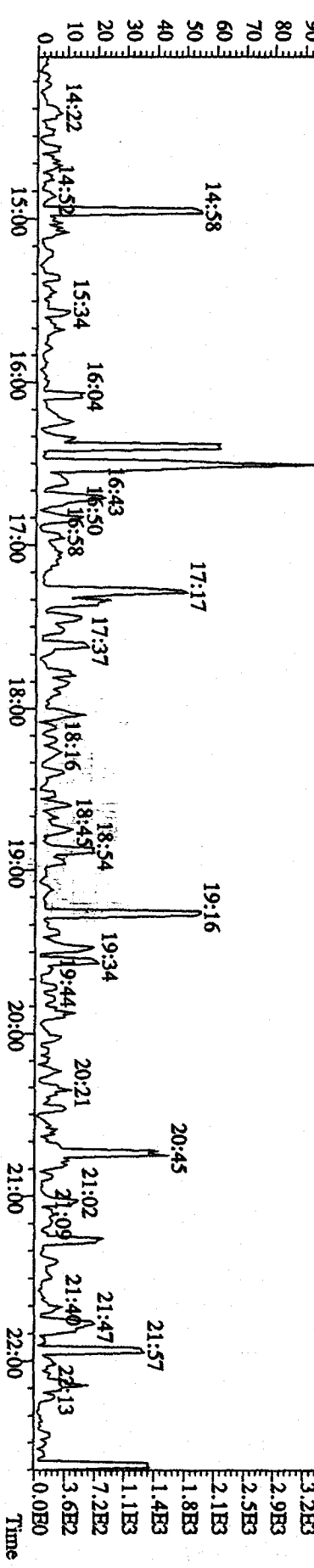
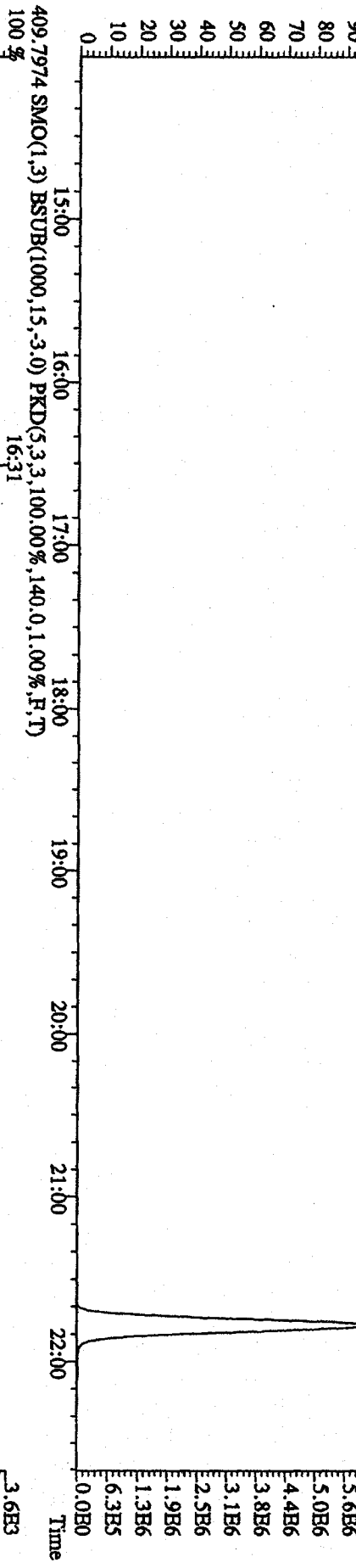
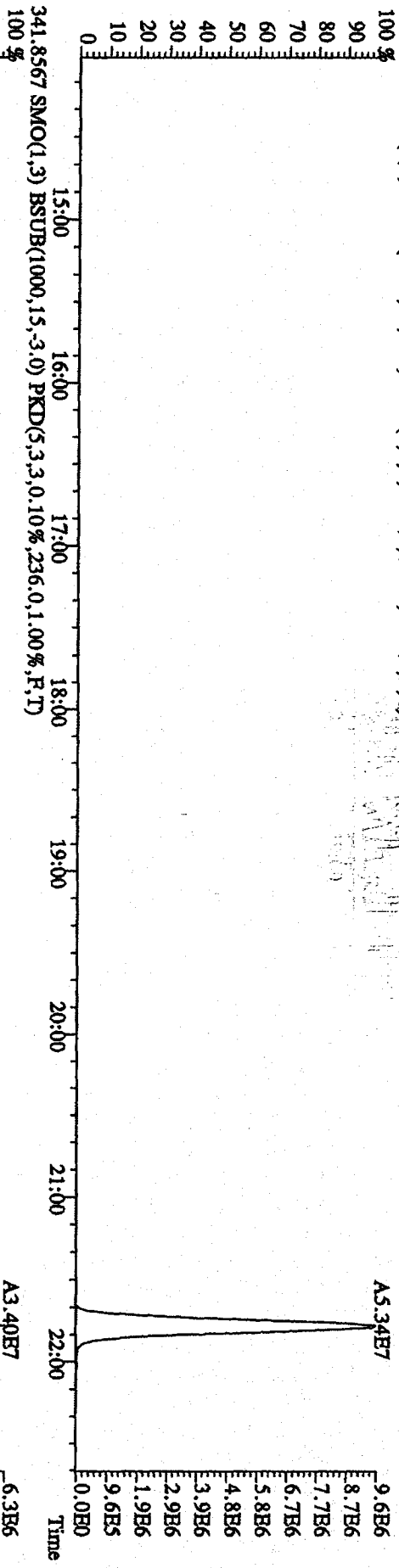
File: 16SEH094D5 #1-601 Acq: 16-SEP-2009 22:46:29 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text: CP0916 :DB-5 CPM 3732-02 Exp: DIOXIN
 327.8847 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,260,0,1,00%,F,T)
 100%



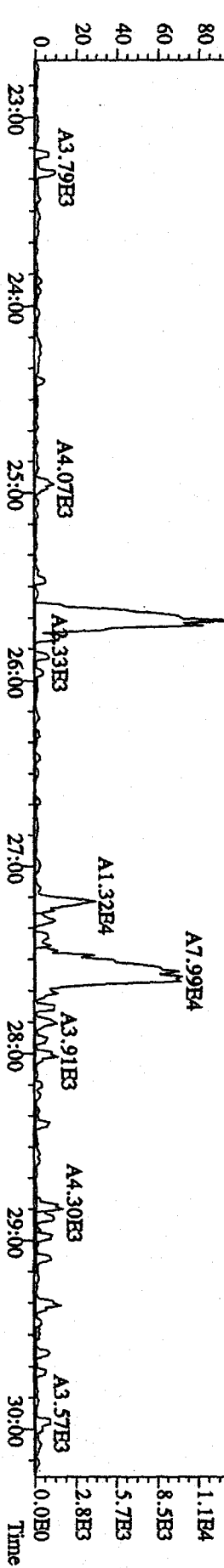
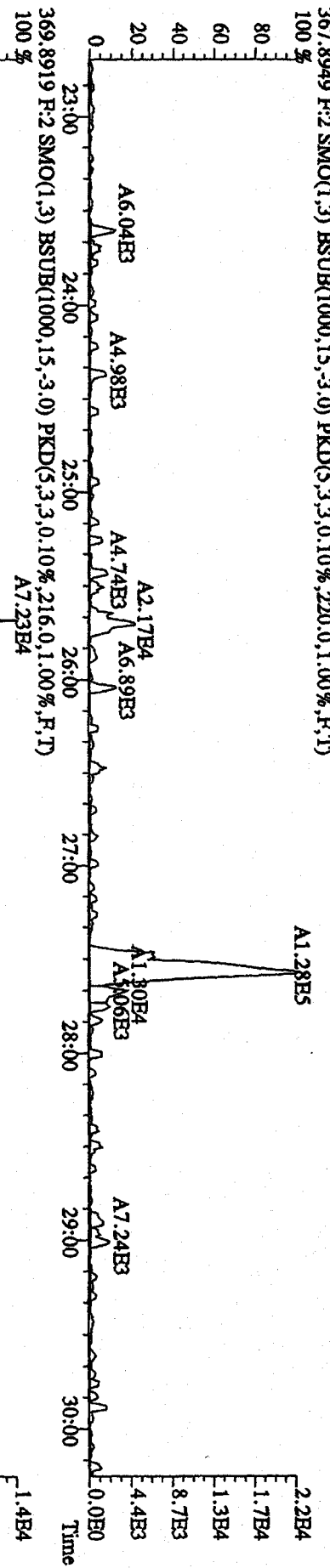
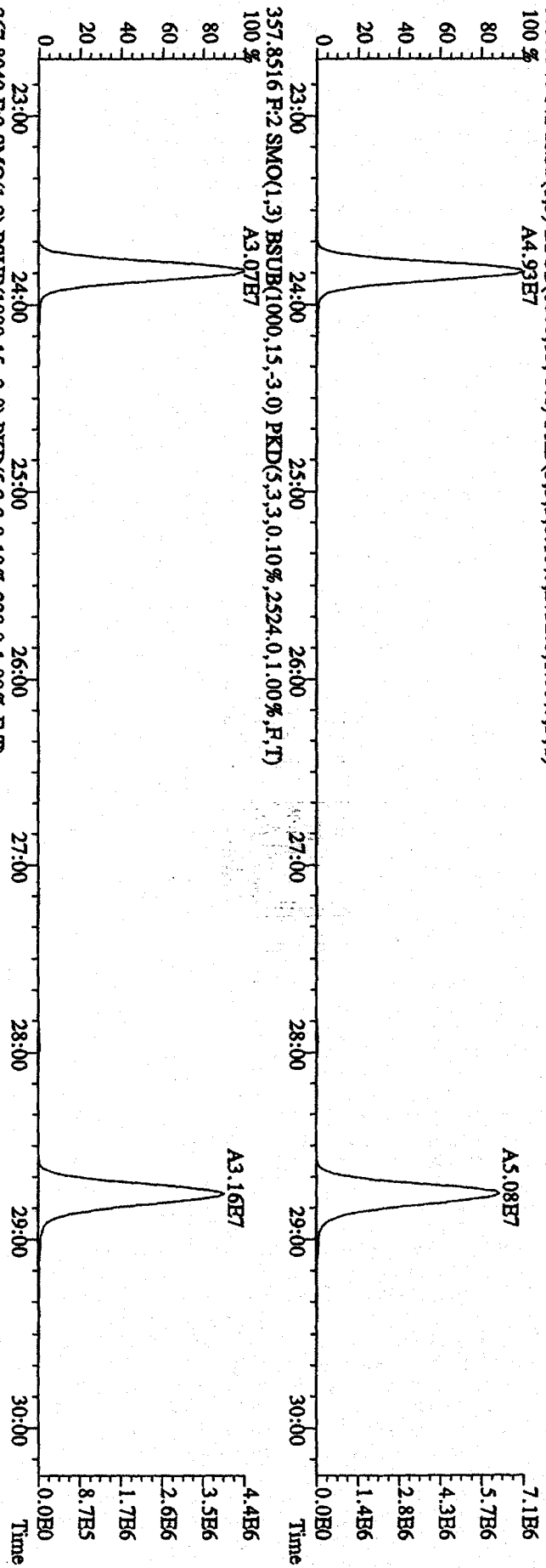
File: 16SHE094D5 #1-603 Acq: 16-SEP-2009 22:46:29 GC HI + Voltage SIR Autospec-Ultimate
 Sample#1 Text: CP0916 :DB-5 CPSM 3732-02 Exp: DIOXIN
 339.8597 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5716.0,1.00%,F,T)



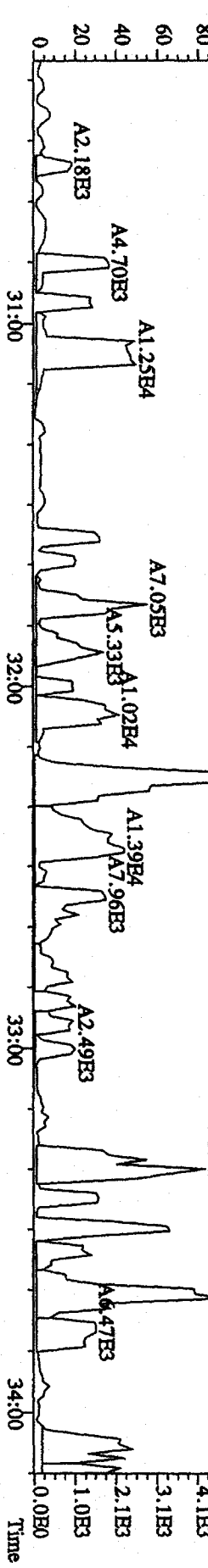
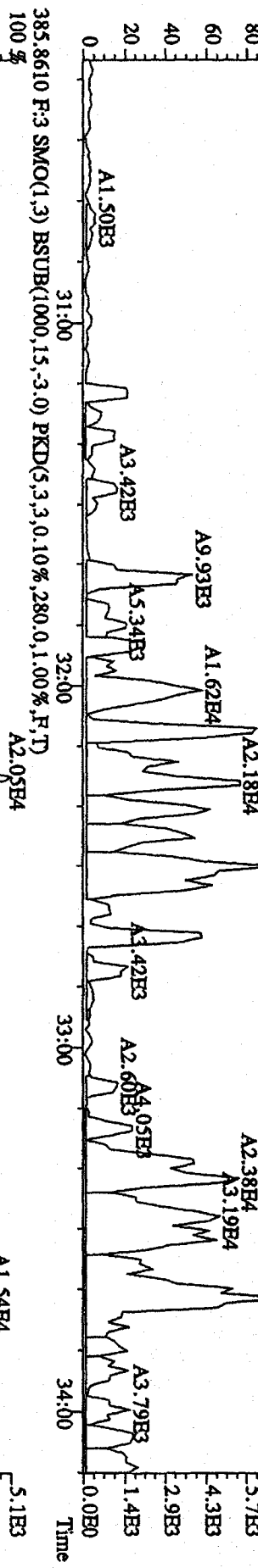
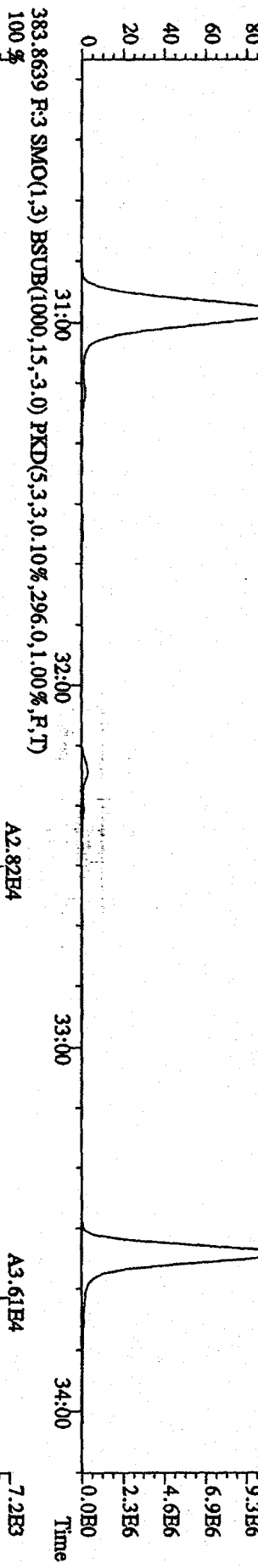
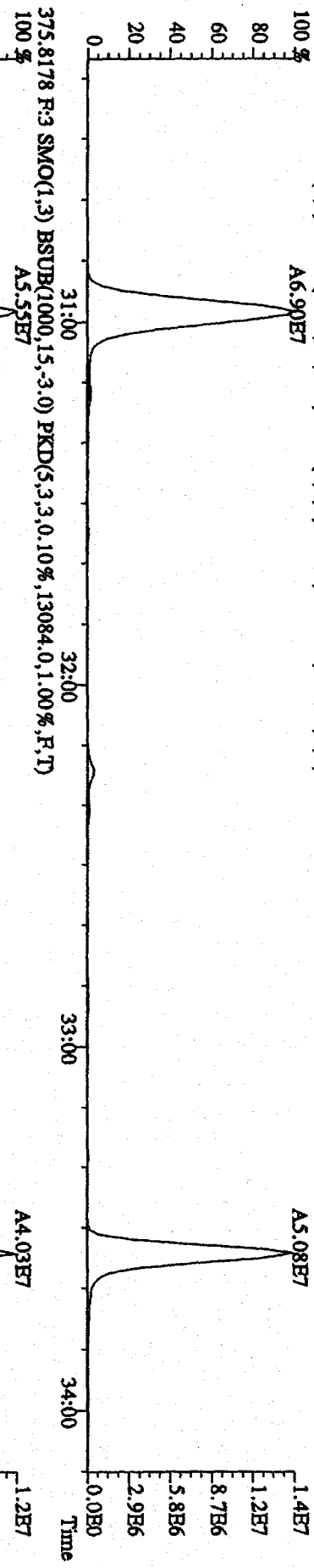
File:16SE094D5 #1-601 Acq:16-SEP-2009 22:46:29 GC BI + Voltage SIR Autospec-Ultimate
 Sample#1 Text:CP0916 :DB-5 CPSM 3732-02 Exp:DIOXIN
 339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,196,0.1,0.0%,F,T)



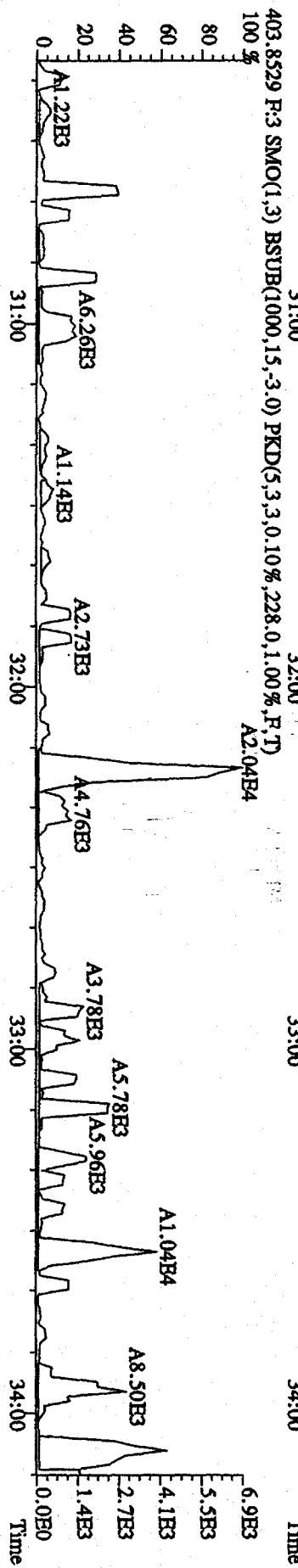
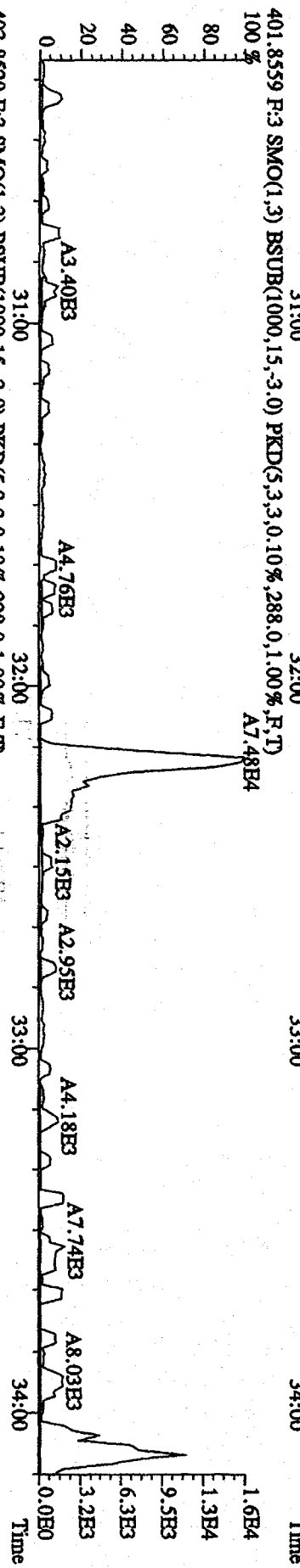
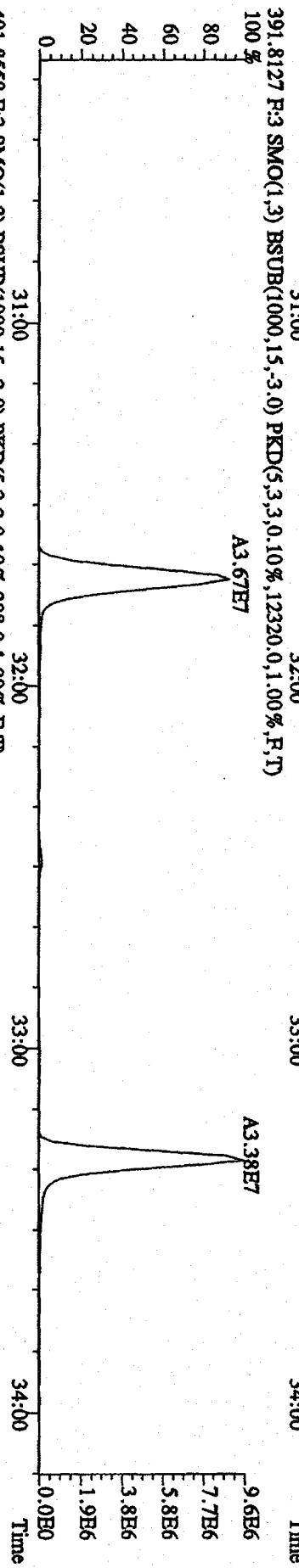
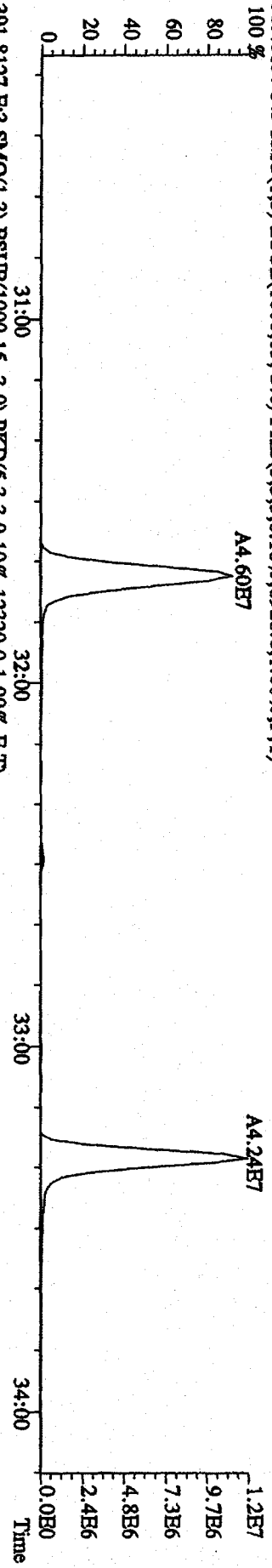
File:16SE094D5 #1-603 Acq:16-SEP-2009 22:46:29 GC HI+ Voltage SIR Autospec-UttimAB
 Sample#1 Text:CP0916 :DB-5 CP5M 3732-02 Exp:DIOXIN
 355.8546 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2732.0,1.00%,F,T)
 100%



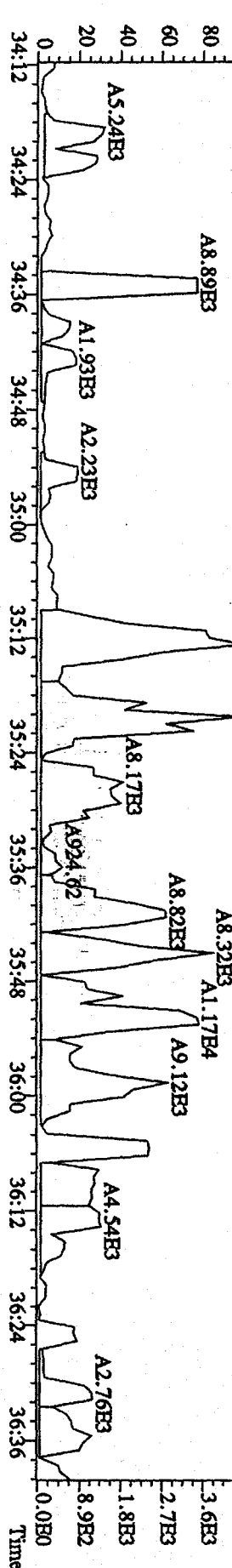
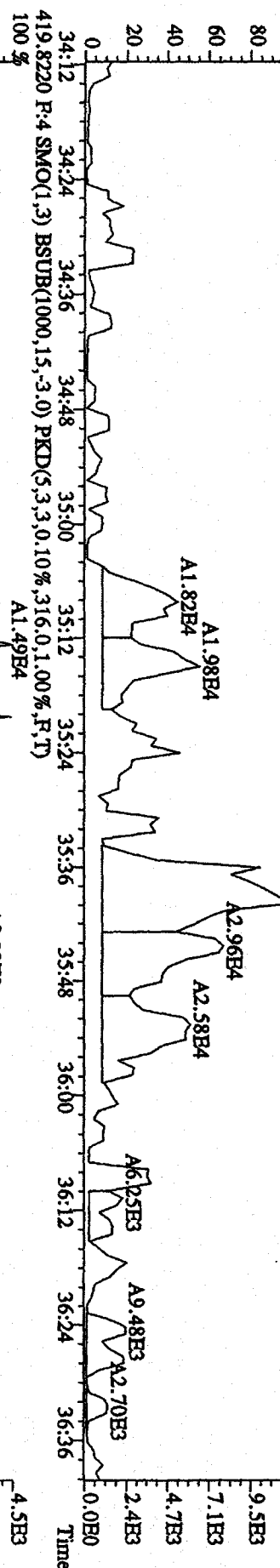
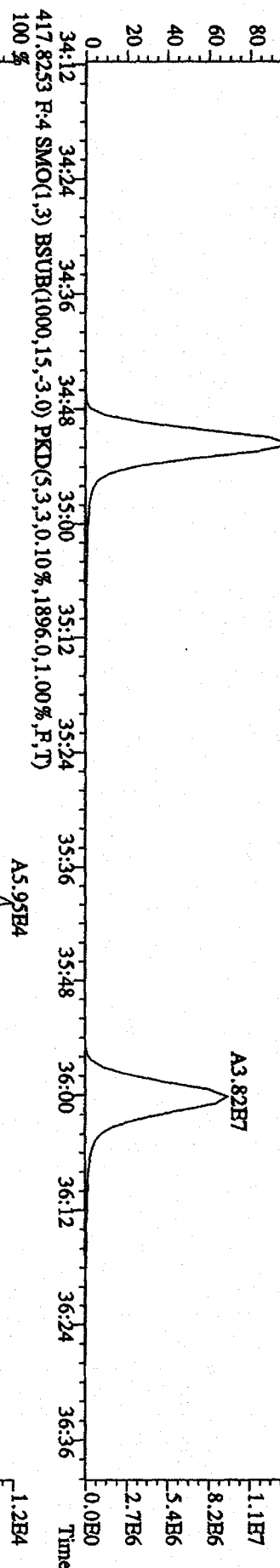
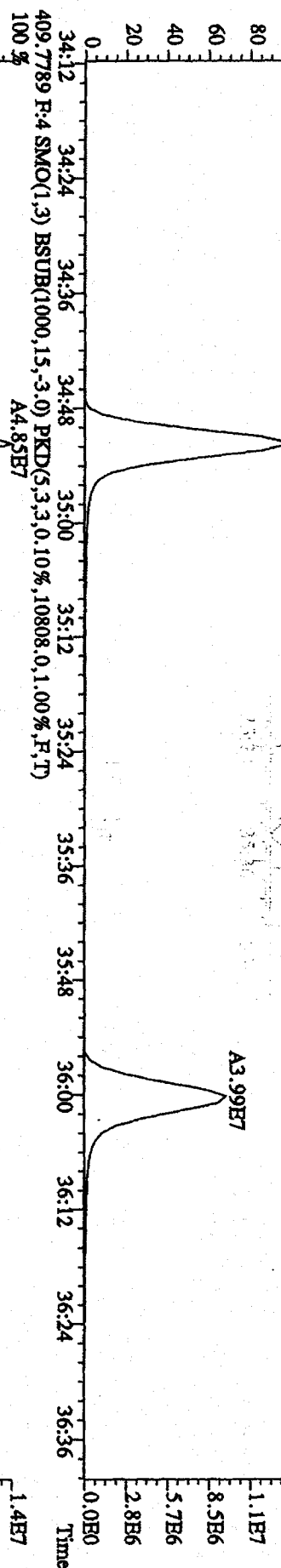
File: 16SB094D5 #1-295 Acq:16-SEP-2009 22:46:29 GC EI+ Voltage SIR Autospec-UltraB
 Sample#1 Text:CP0916 :DB-5 CPSM 3732.02 Exp:DIOXIN
 373.8208 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,15876,0,1,00%,F,T)



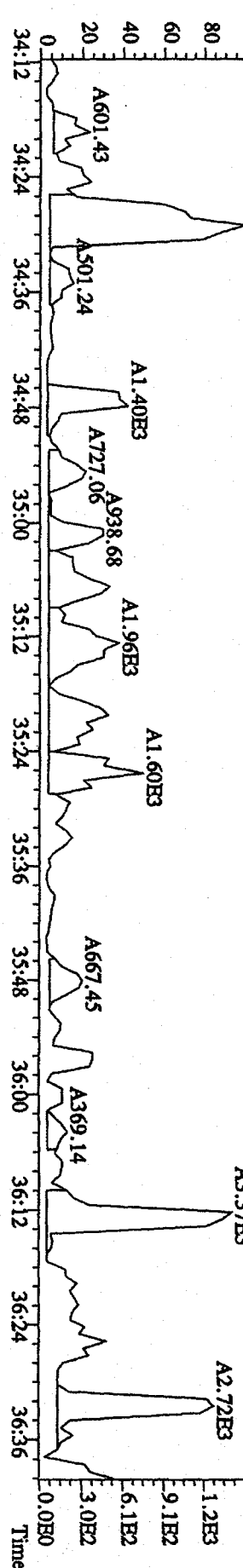
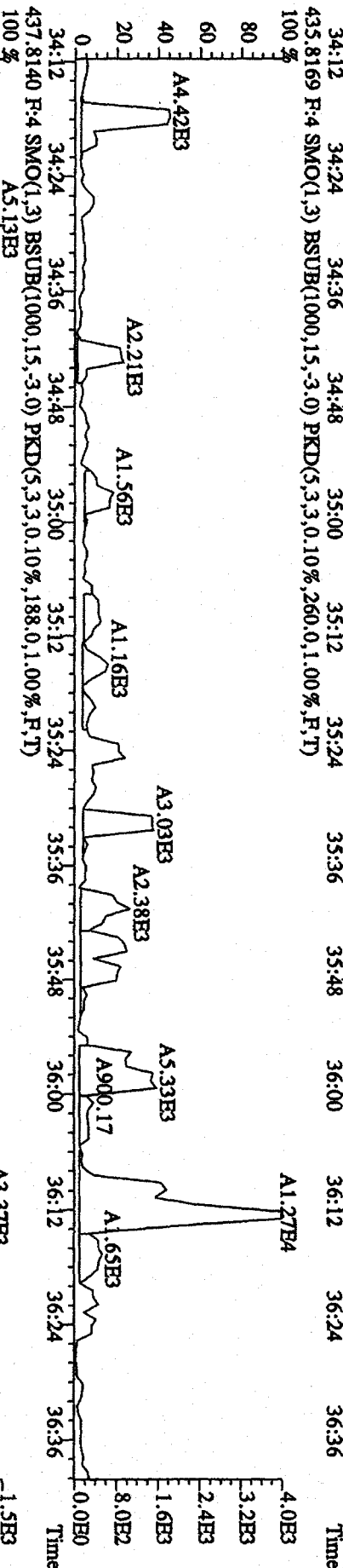
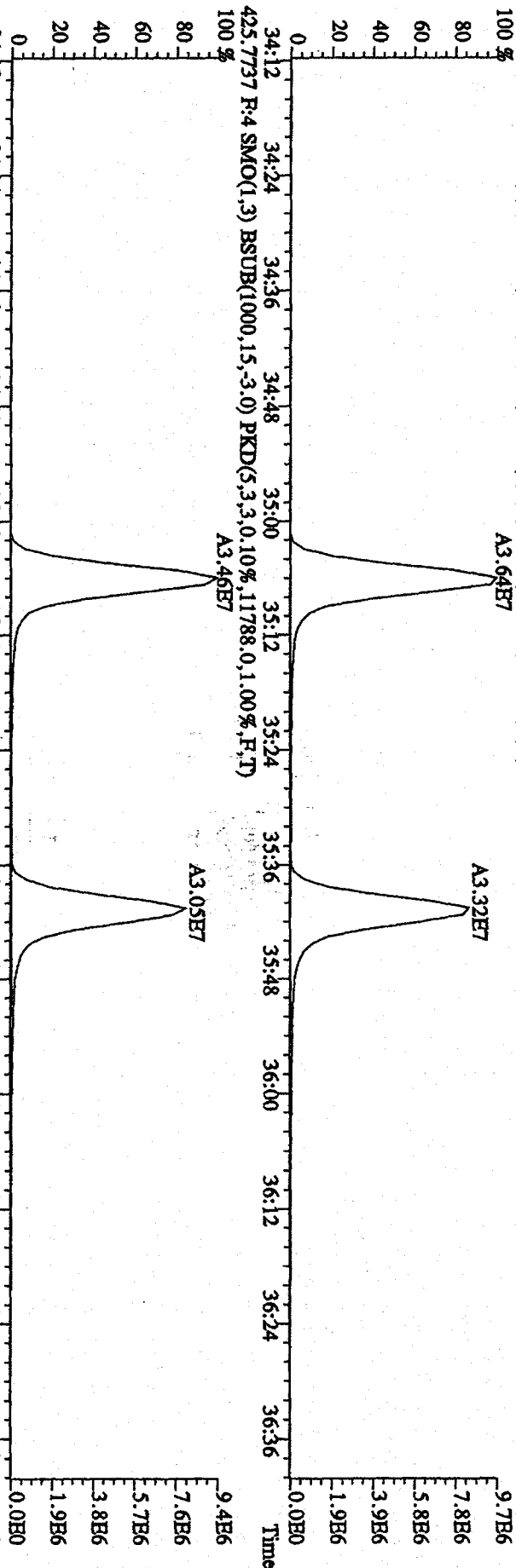
File:16SB094D5 #1-295 Acq:16-SRP-2009 22:46:29 GC HI + Voltage SIR Autospec-UltraH
 Sample#1 Text:CP0916 :DB-5 CPSM 3732-02 Exp:DIOXIN
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6928,0,1,00%,F,T)
 100%



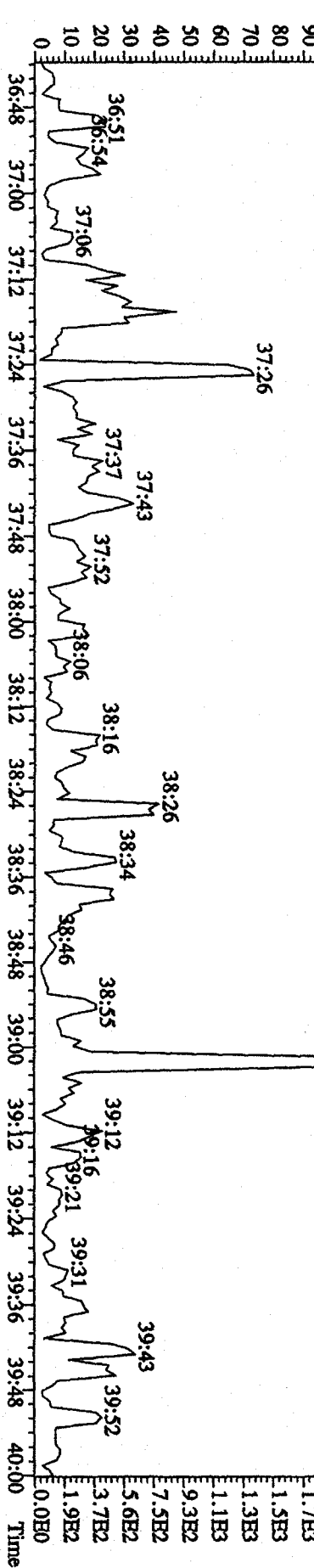
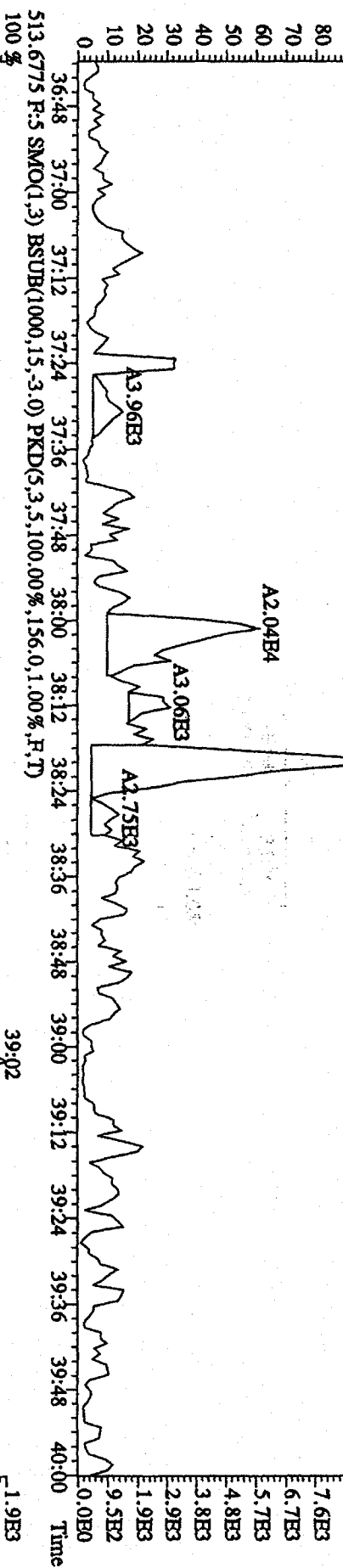
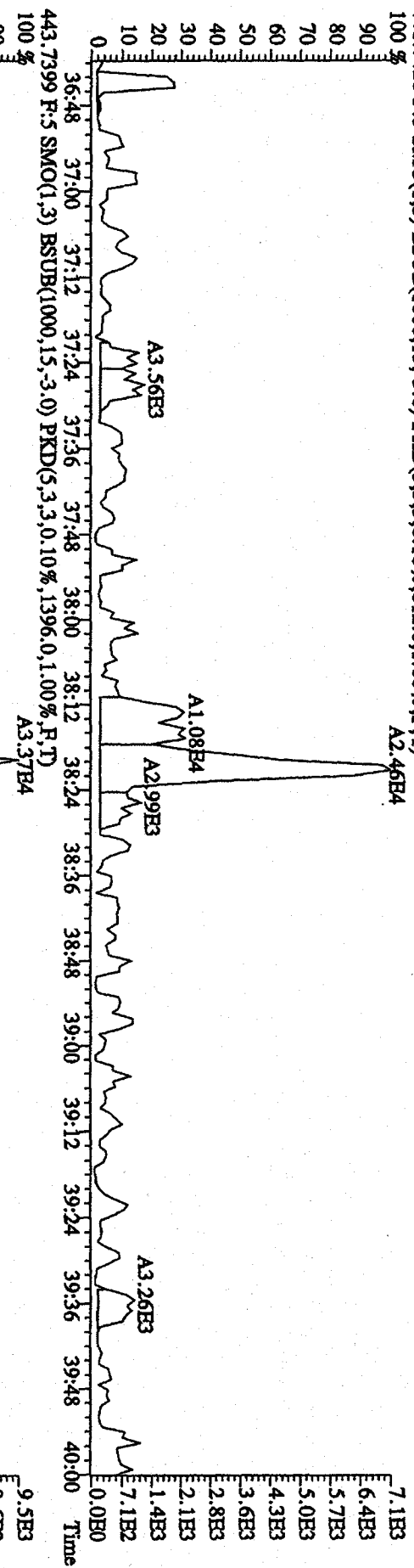
File: 16SIB094D5 #1-198 Acq: 16-SEP-2009 22:46:29 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text: CP0916 :DB-5 CPISM 3732-02 Exp: DIOXIN
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9232.0,1.00%,F,T)
 100%



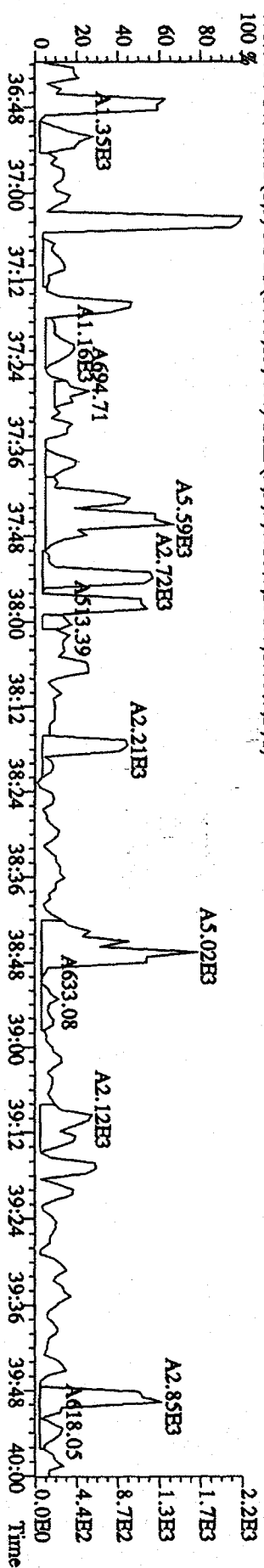
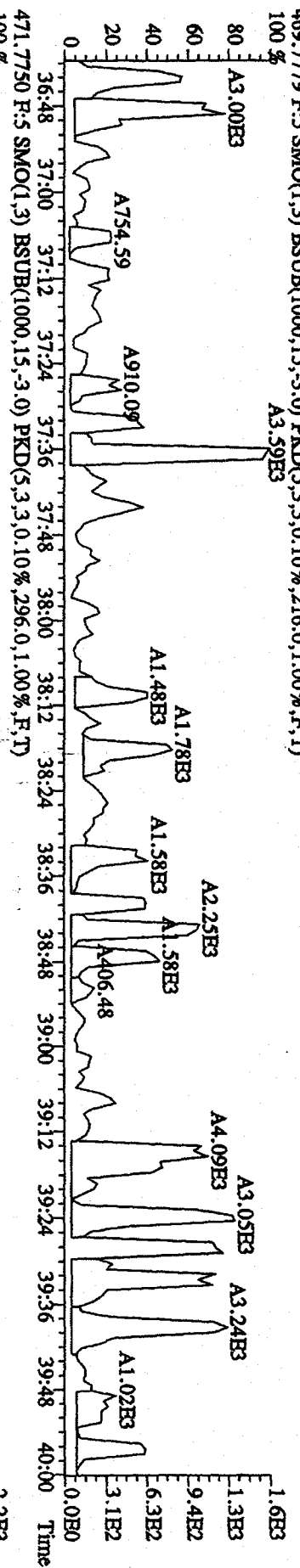
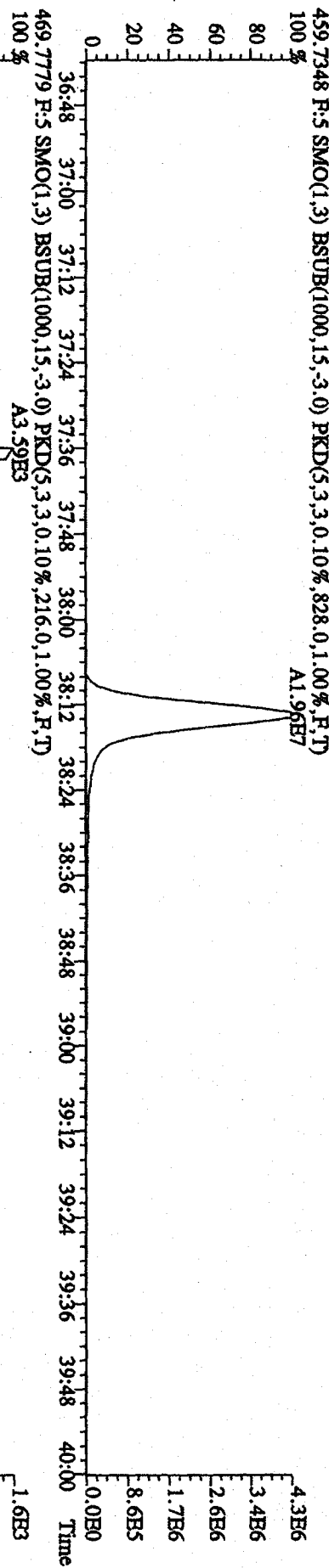
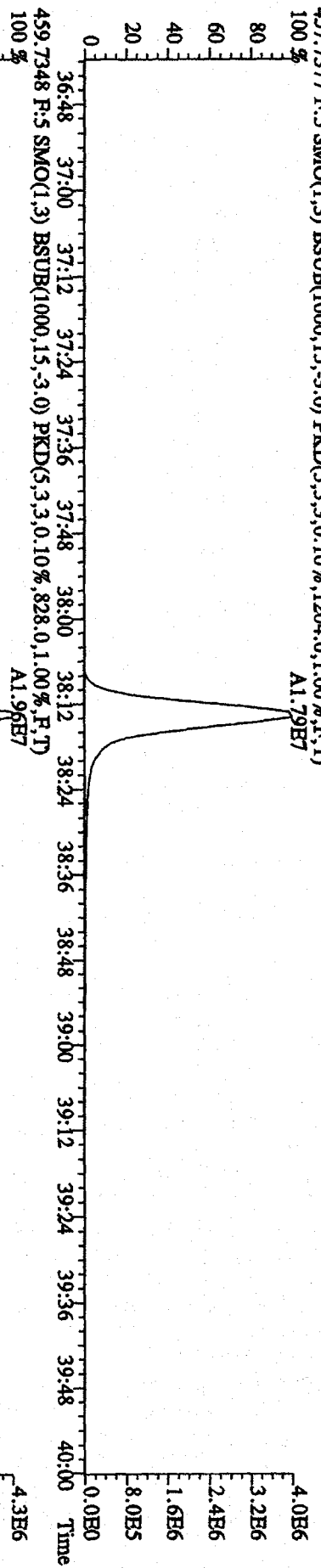
File:16SE094D5 #1-198 Acq:16-SEP-2009 22:46:29 GC EI+ Voltage SDR Autospec-UltimaB
 Sample#1 Text:CP0916 :DB-5 CPISM 3732-02 Exp:DI0XIN
 423.7766 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9440,0.1,0.00%,F,T)
 100%



File:16SB094D5 #1-268 Acq:16-SEP-2009 22:46:29 GC HI + Voltage SIR Autospec-UltimaB
 Sample#1 Text:CP0916 :DB-5 CPSM 3732-02 Exp:DIOXIN
 441.7428 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,812.0,1.00%,F,T) A2.46E4



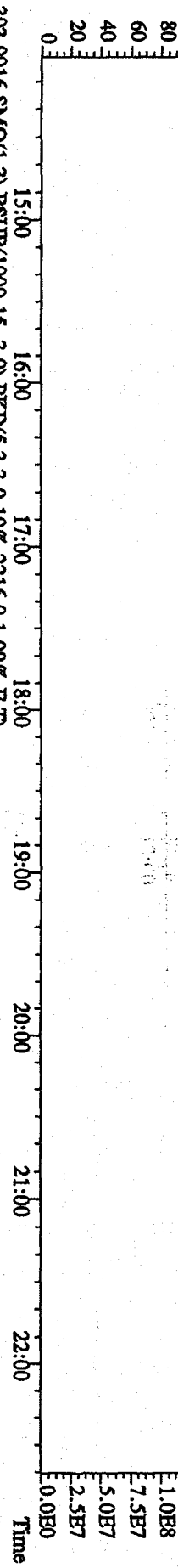
File:16SB094D5 #1-268 Acq:16-SEP-2009 22:46:29 GC EI + Voltage SIF Autospec-Ultimah
 Sample#1 Text:CP0916 :DB-5 CPSM 3732-02 Exp:DIOXIN
 457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1204,0,1,00%,F,T) A1.79E7



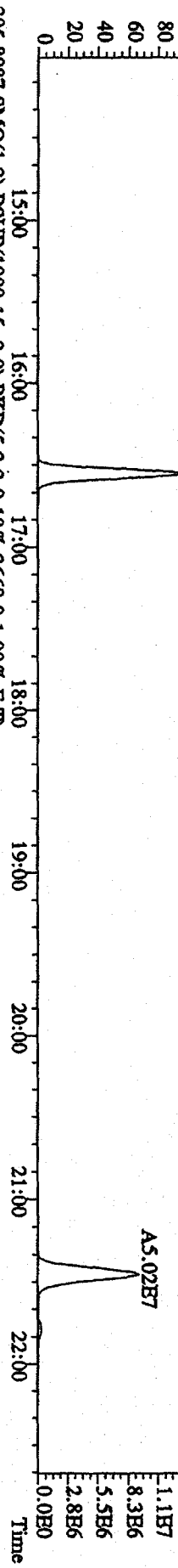
File: 16SB094D5 #1-601 Acq: 16-SEP-2009 22:46:29 GC EI+ Voltage SIR Autospec-UltimaB

Sample#1 Text: CP0916 :DB-5 CPSM 3732-02 Exp: DIOXIN

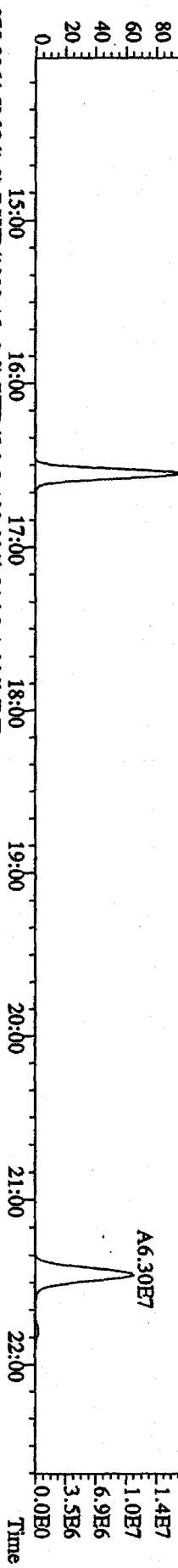
292.9825 SMO(1.3) PKD(5.3,5.100.00%,0.0,1.00%,F,T) 14:20 14:59 15:35 16:02 16:33 17:17 18:13 18:49 19:26 20:19 20:49 21:15 21:47 22:14



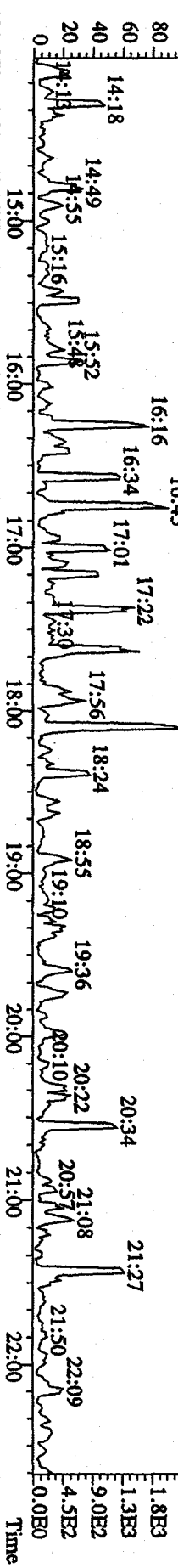
303.9016 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,2216,0.1,00%,F,T)



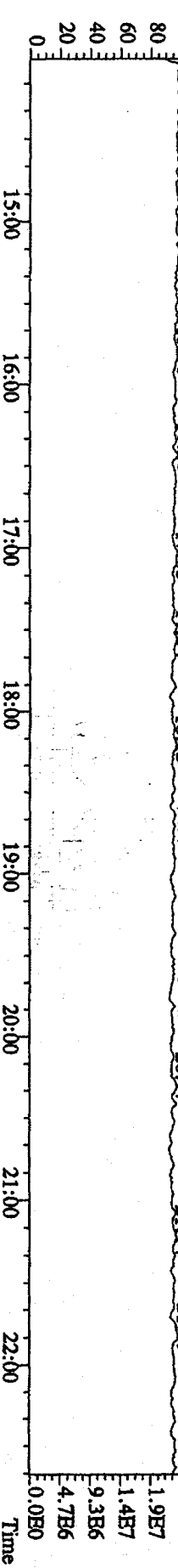
305.8987 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,3668,0.1,00%,F,T)



375.8364 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.100.00%,216,0.1,00%,F,T)



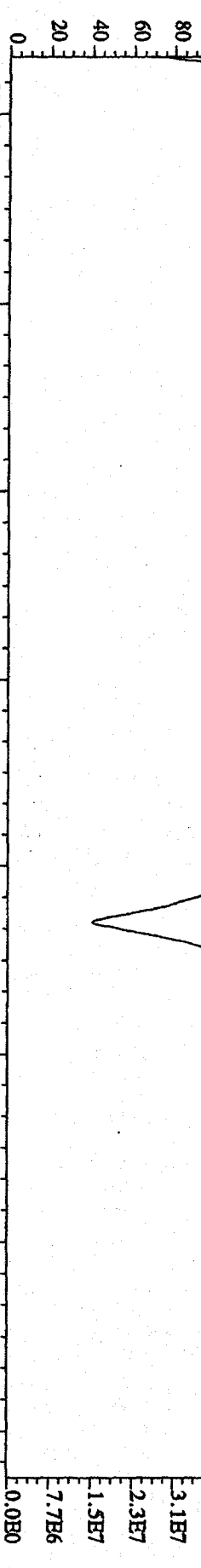
330.9792 SMO(1.3) PKD(5.3,100.00%,0.0,1.00%,F,T)



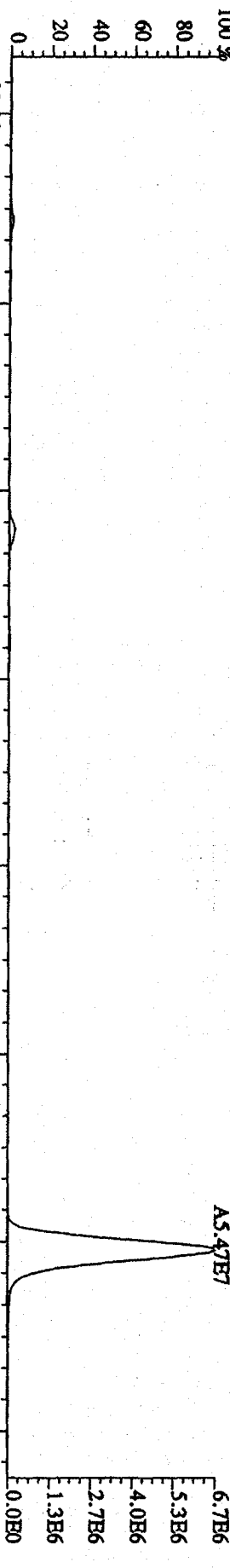
File: 16SEB094D5 #1-603 Acq: 16-SEP-2009 22:46:29 GC EI+ Voltage SIR Autospec-Ultimate

Sample#1 Text: CP0916 :DB-5 CP5M 3732-02 Exp: DIOXIN

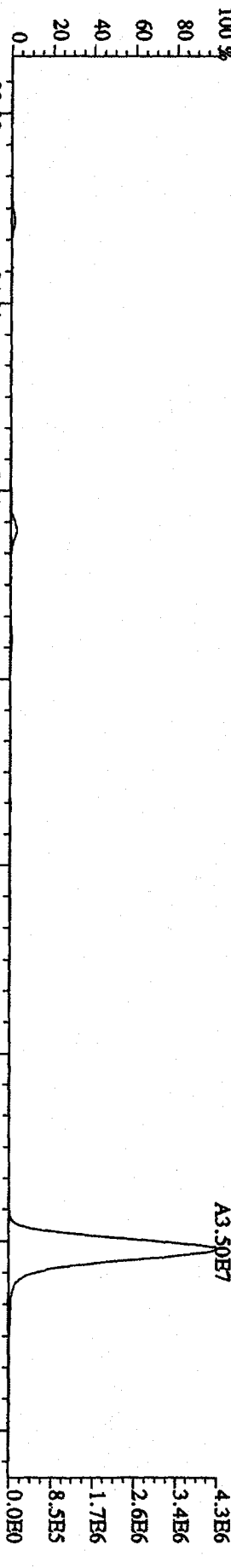
342.9792 F:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



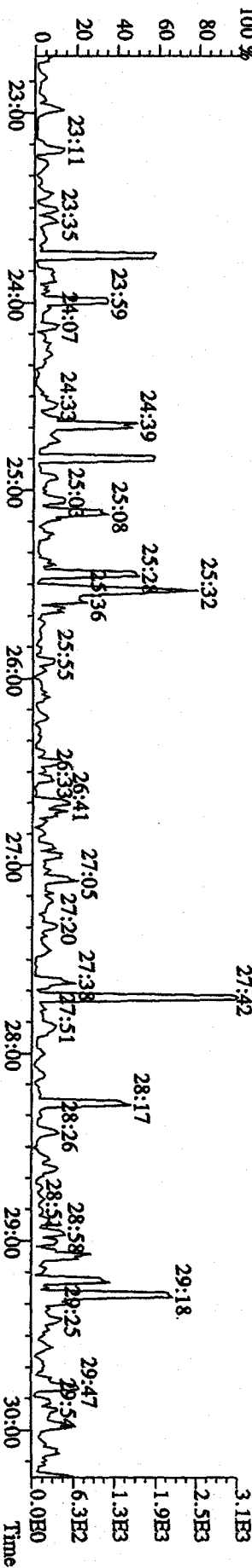
339.8597 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,5716.0,1.00%,F,T)



341.8567 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,3796.0,1.00%,F,T)



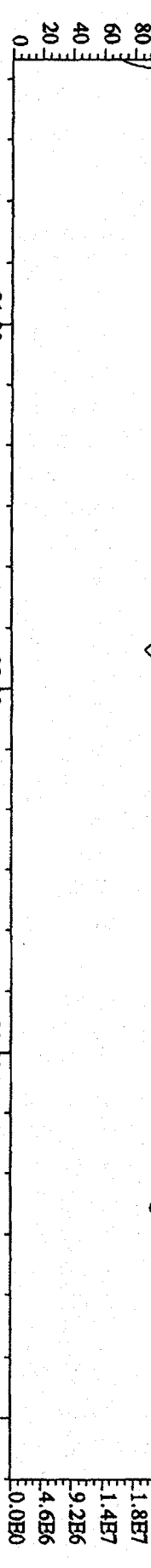
409.7974 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,204.0,1.00%,F,T)



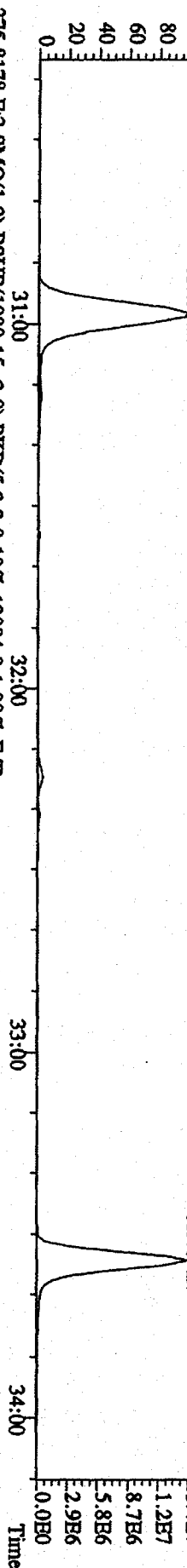
File:16SIB094D5 #1-295 Acq:16-SEP-2009 22:46:29 GC HI + Voltage SIR Autospec-UltimaB

Sample#1 Text:CP0916 :DB-5 CP5M 3732-02 Exp:DIOXIN

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

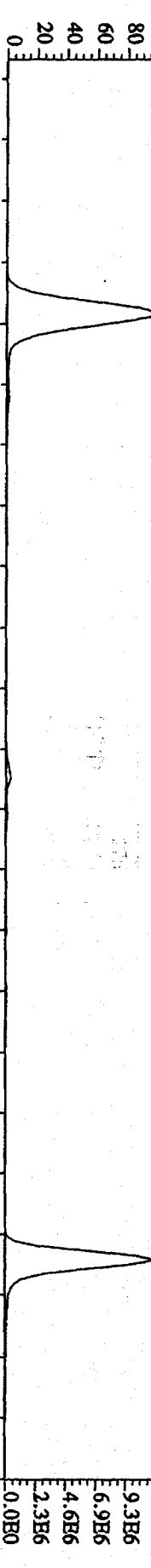


373.8208 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0.10%,13876.0,1.00%,F,T)

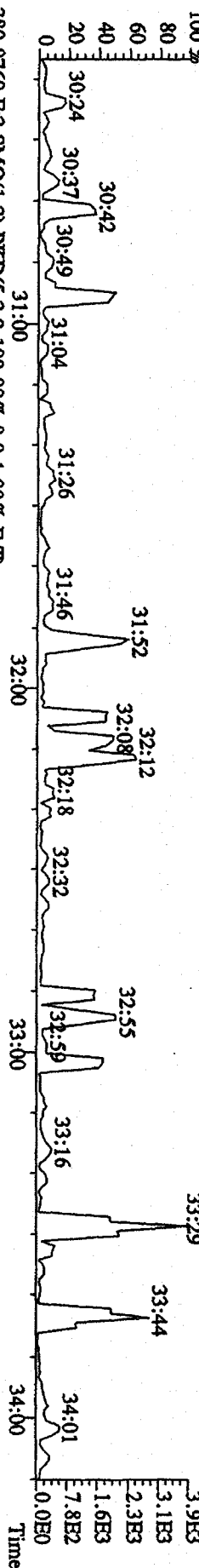


A6.90E7

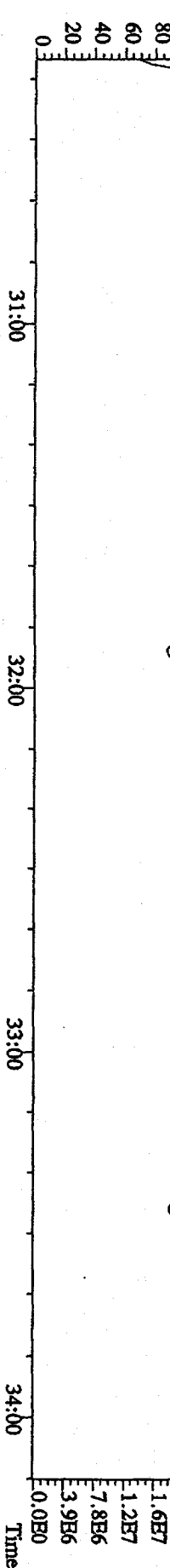
A4.03E7



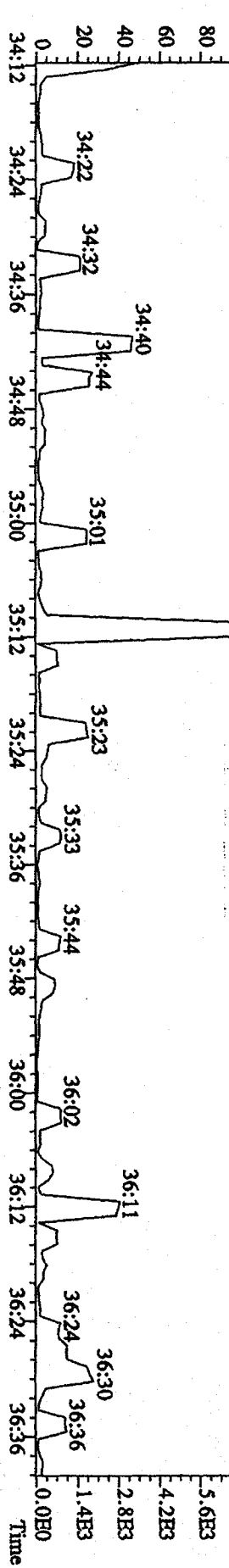
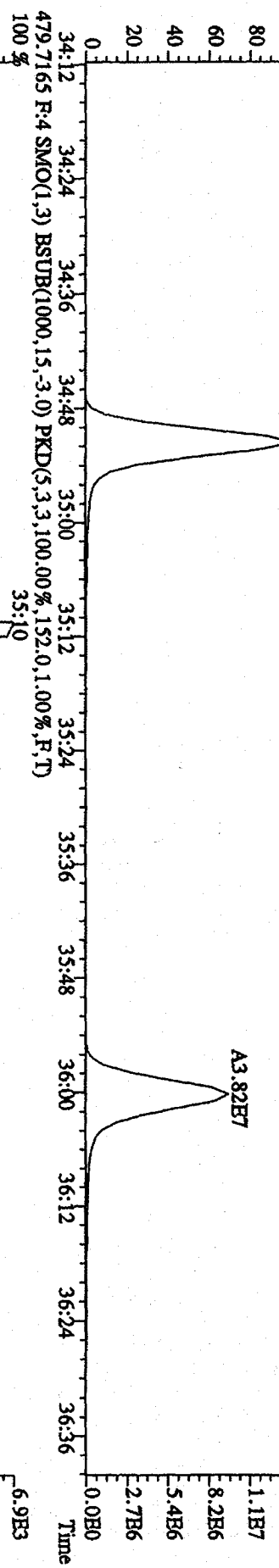
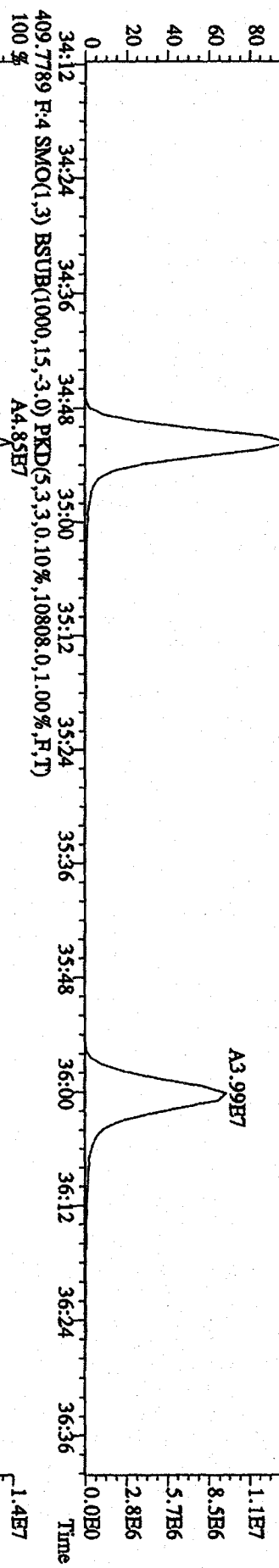
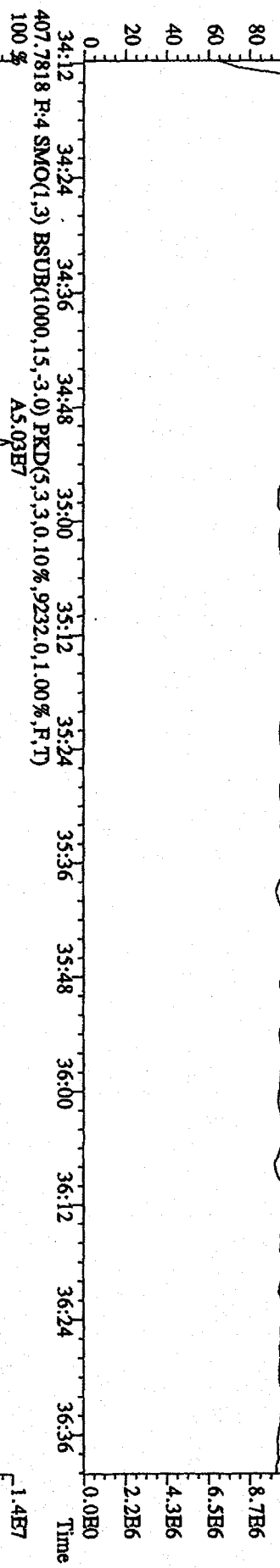
445.7555 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,100.00%,208.0,1.00%,F,T)



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



File:16SE094D5 #1-198 Acq:16-SHP-2009 22:46:29 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:CP0916 :DB-5 CFSM 3732-02 Exp:DIOXIN
 430.9728 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 34:22 34:35 35:05 35:14 35:27 35:35 35:43 35:51 36:04 36:23 36:33



File: 16SBE094D5 #1-268 Acq: 16-SEP-2009 22:46:29 GC EI + Voltage SIR Autospec-Ultimate

Sample#1 Text: CP0916 :DB-5 CPSM 3732-02 Exp: DIOXIN

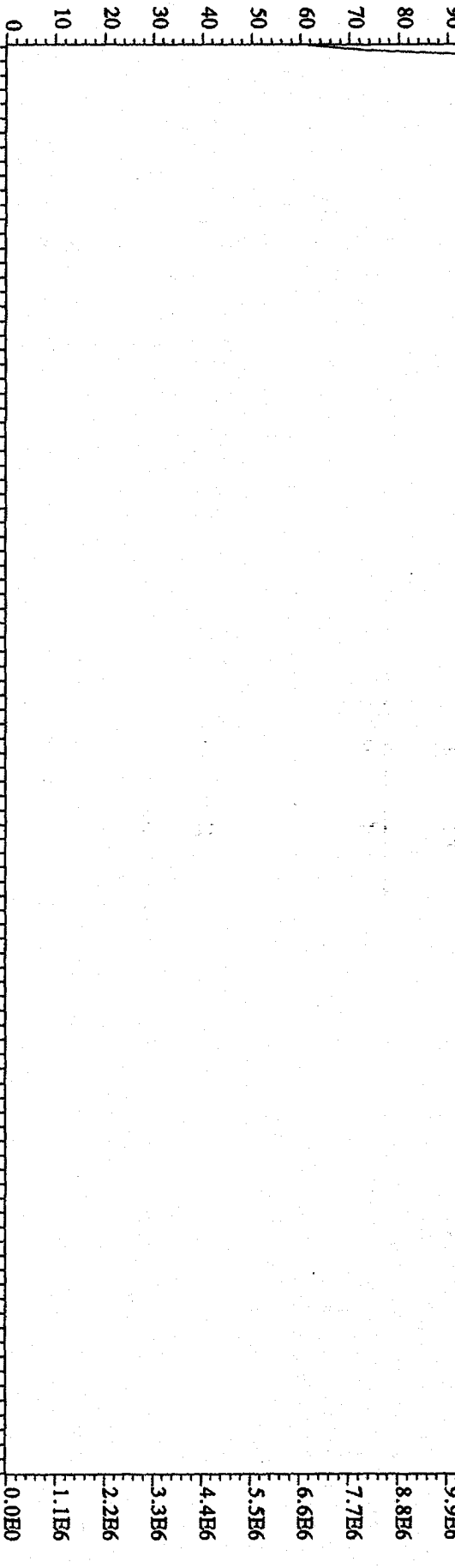
454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 36:52 37:04 37:19 37:29 37:48 38:01

38:32 38:50

39:17 39:27 39:39

1.1E7



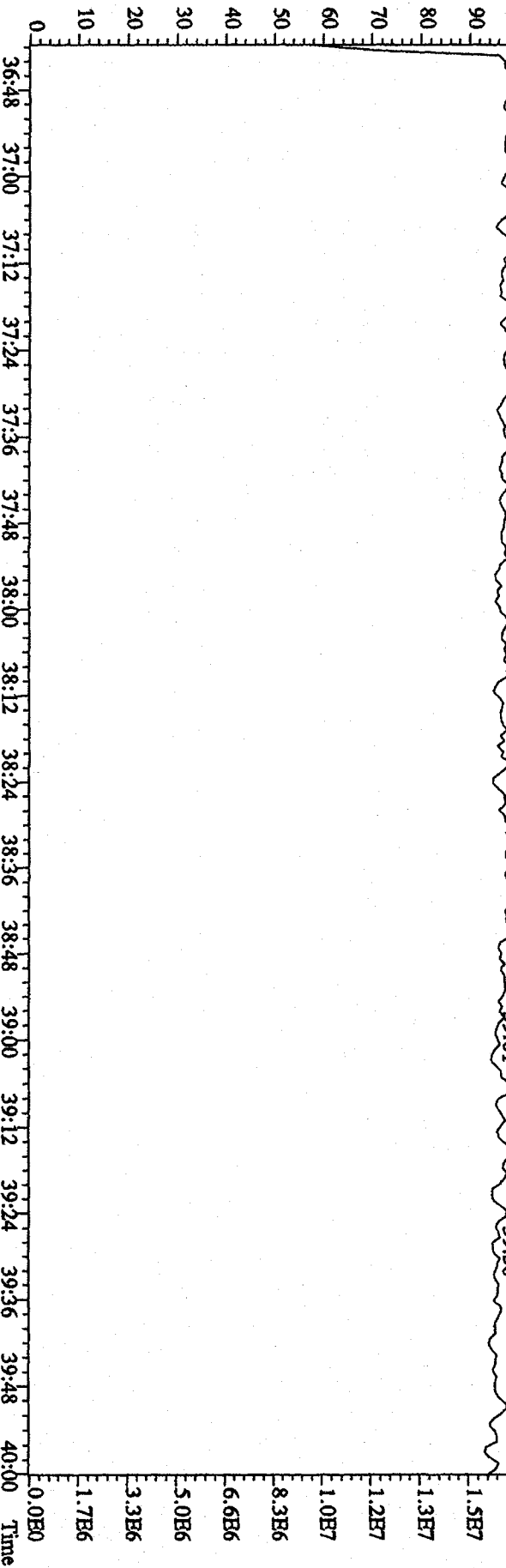
442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 36:52 37:09 37:29

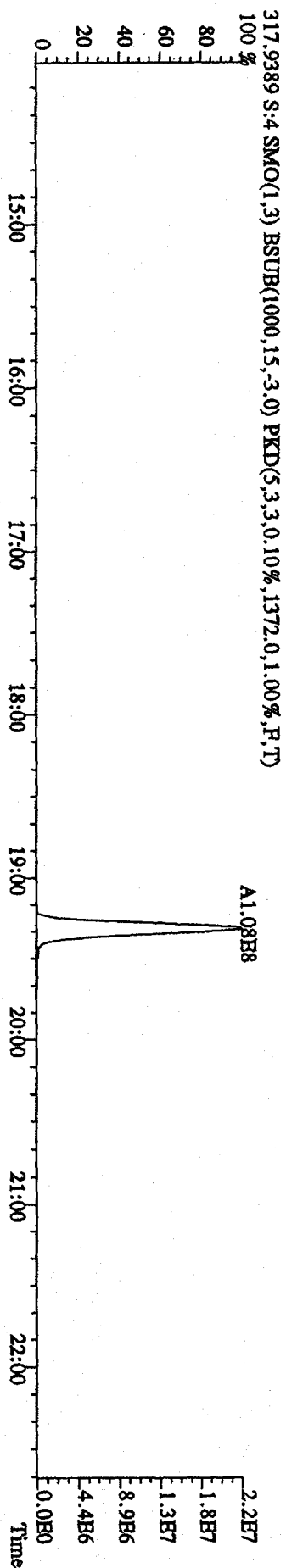
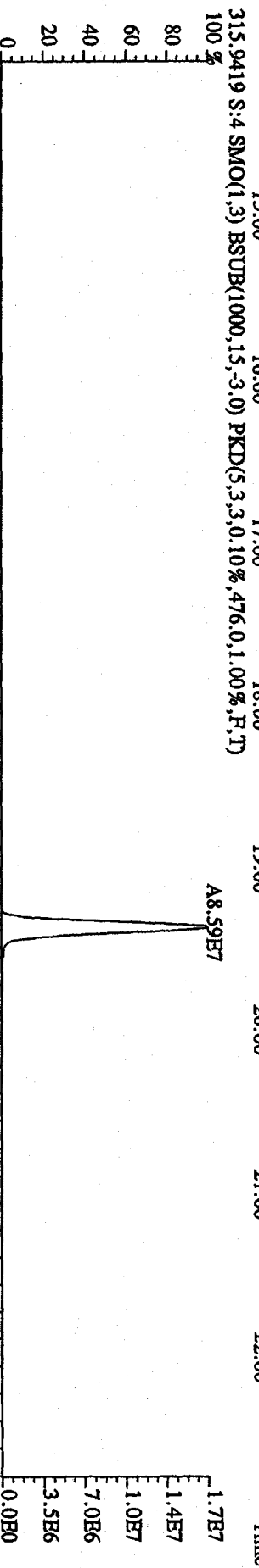
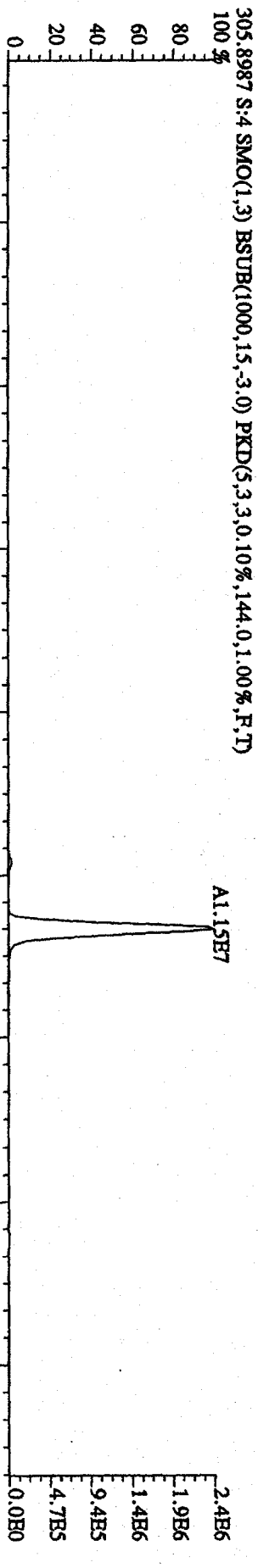
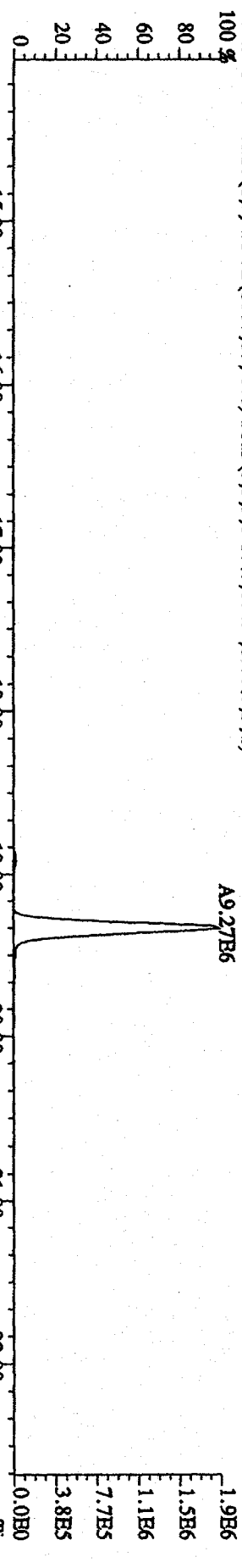
38:02 38:21 38:39

39:01 39:16 39:30 39:50

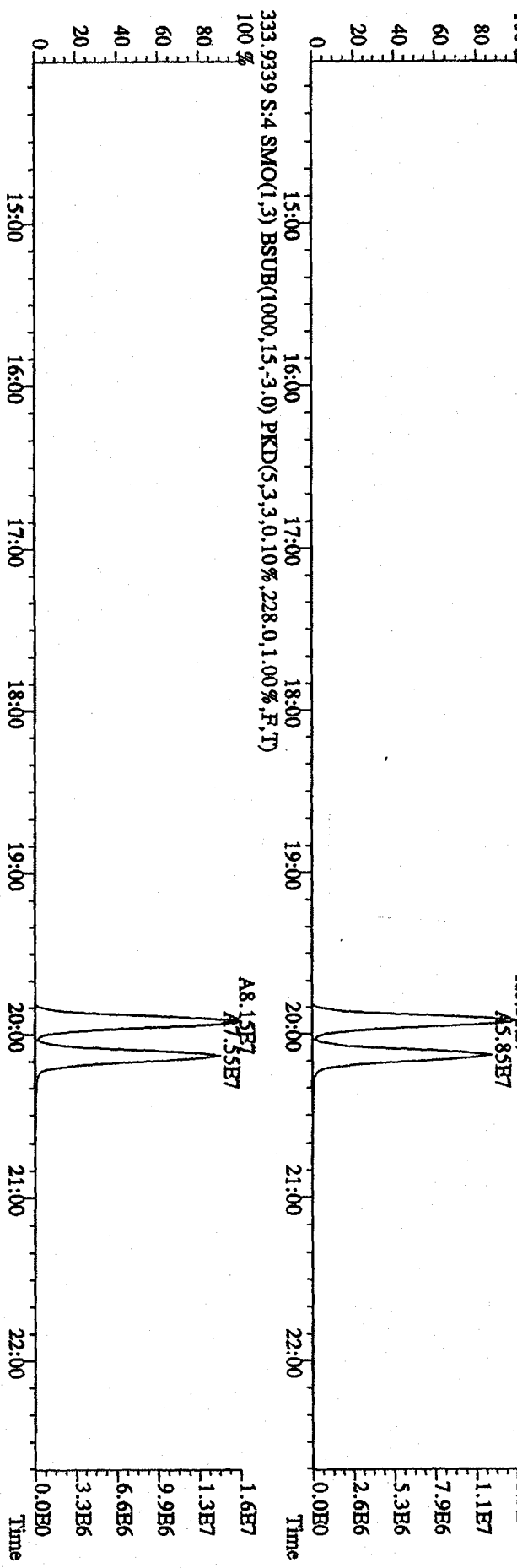
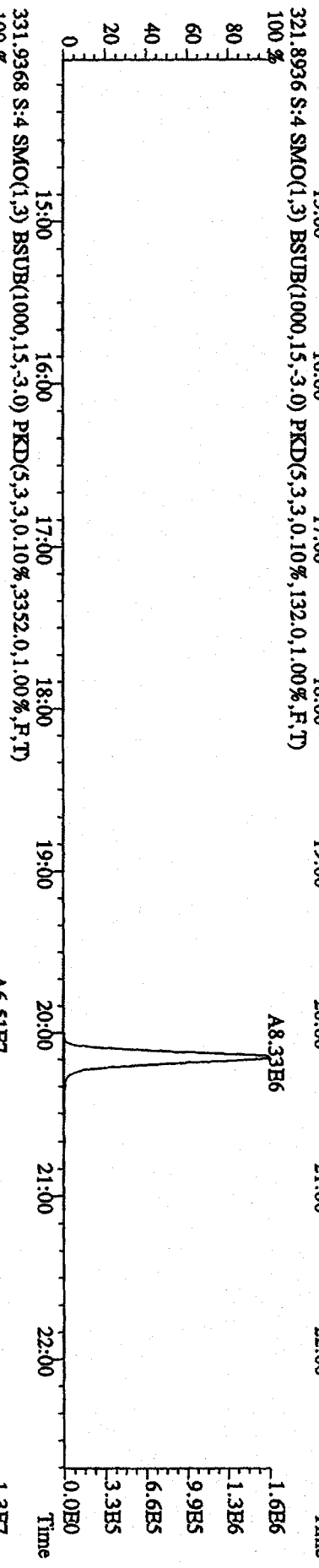
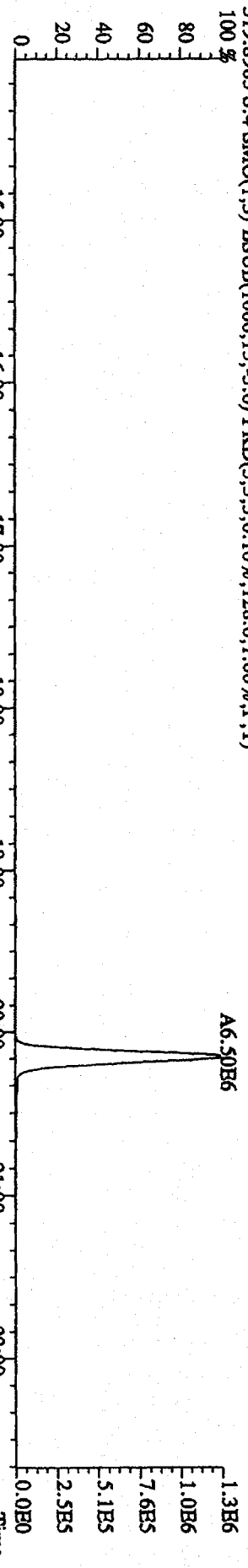
1.7E7



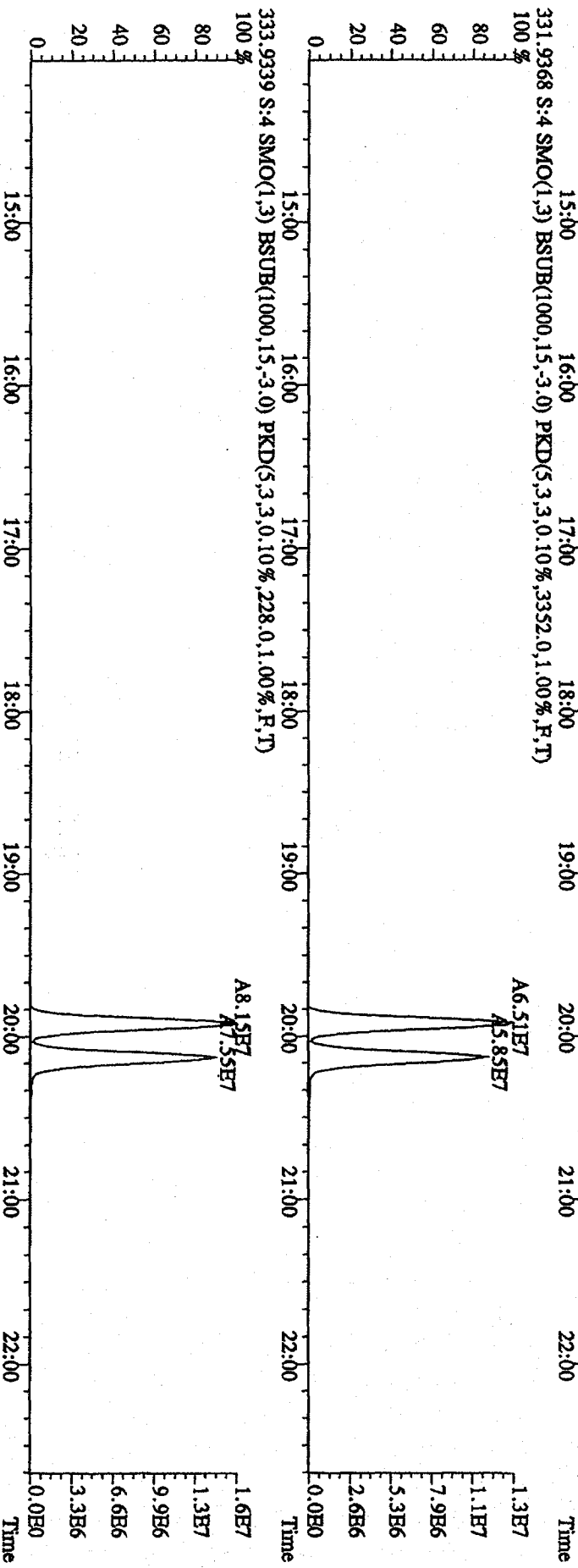
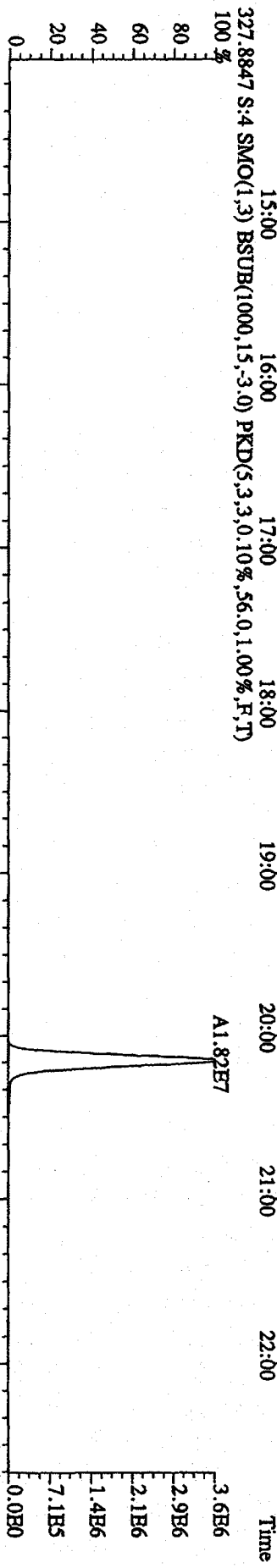
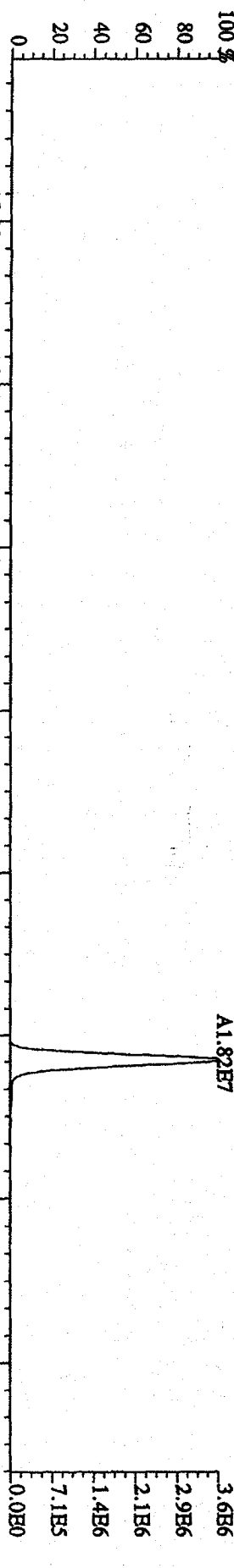
File:19SE094D5 #1-601 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Tex:ST0919A :2nd Source 09DXN300 Exp:DIOXIN
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,664.0,1.00%,F,T)
 100 %



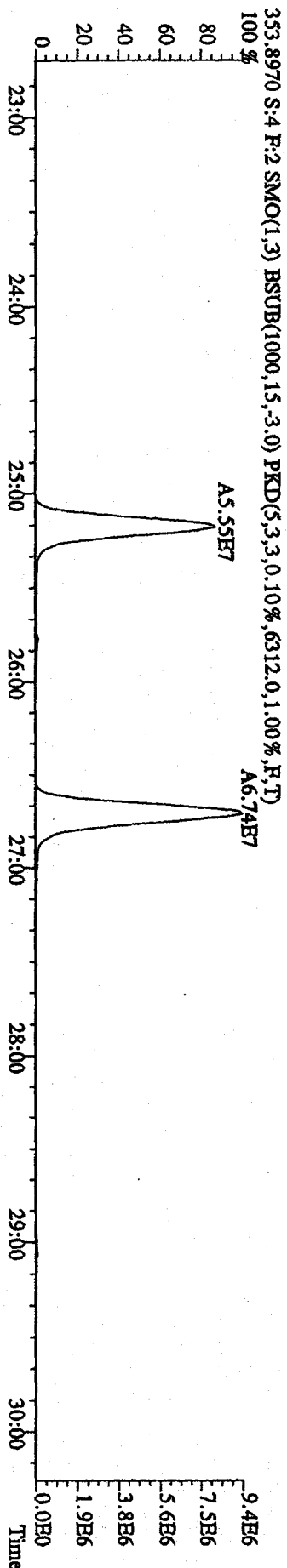
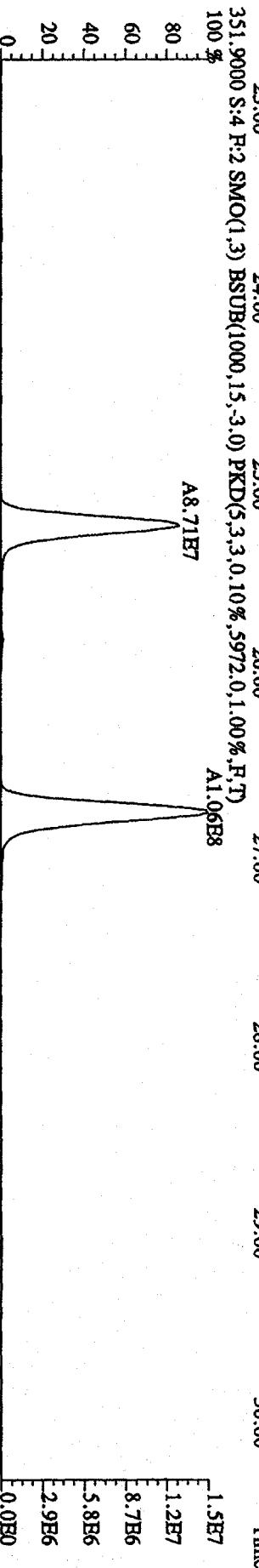
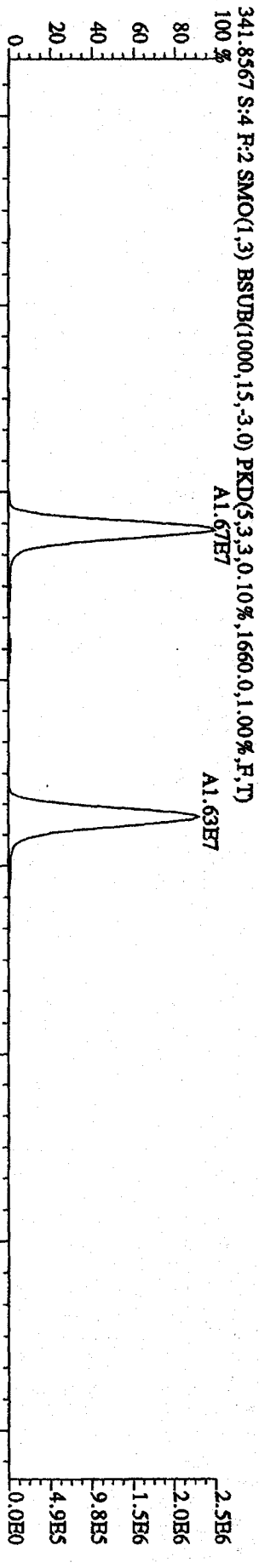
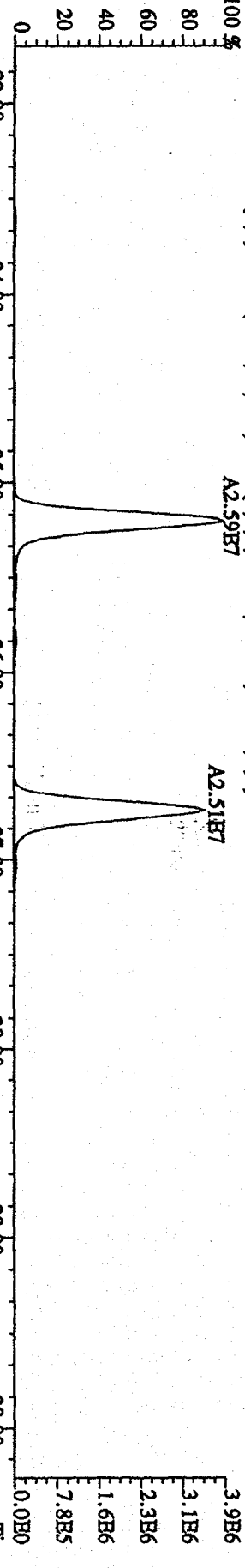
File:19SIB094D5 #1-601 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UtimaE
 Sample#4 Tex:ST0919A :2nd Source 09DXN300 Exp:DIOXIN
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,128.0,1.00%,F,T)
 100 %



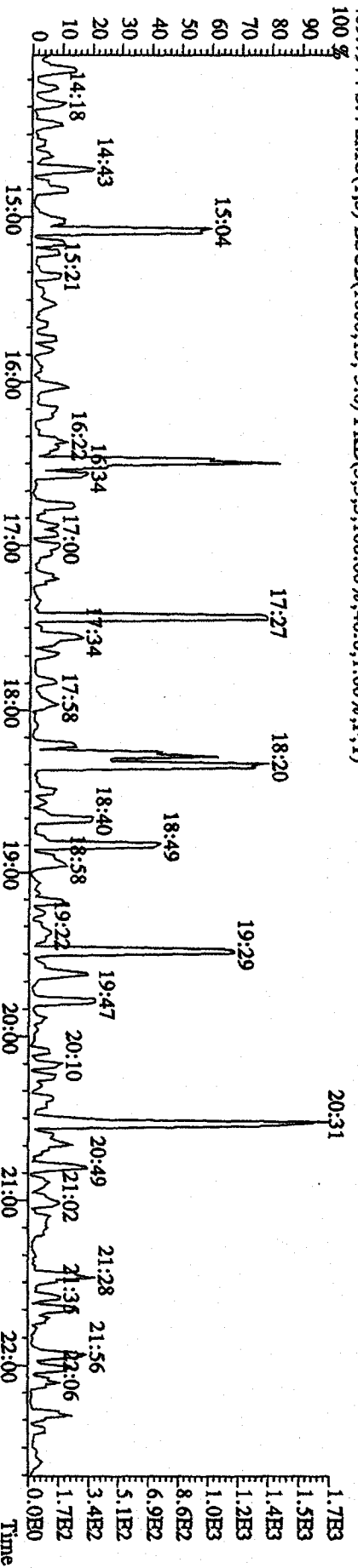
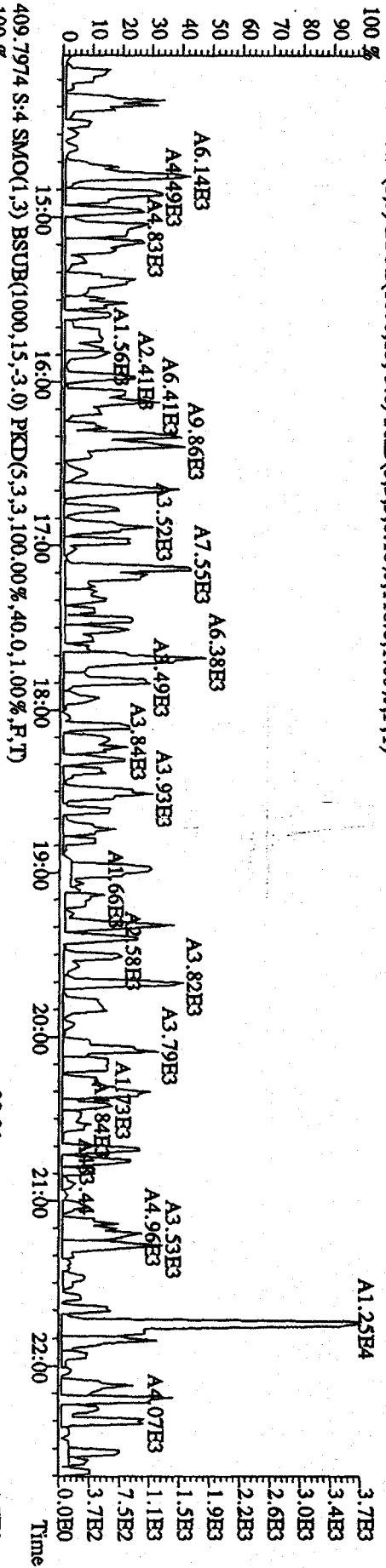
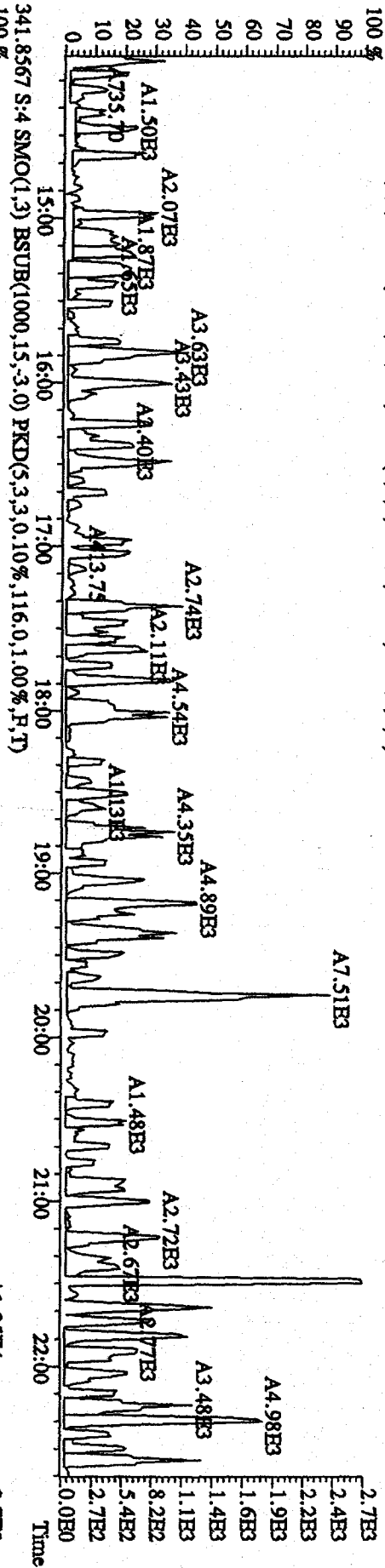
File:19SBD094D5 #1-601 Acq:19-SEP-2009 16:57:51 GC HI+ Voltage SIR Autospec-Ultimat
 Sample#4 Text:ST0919A 2nd Source 09DXN300 Exp:DIOXIN
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,56,0,1,00%,F,T)
 100 %



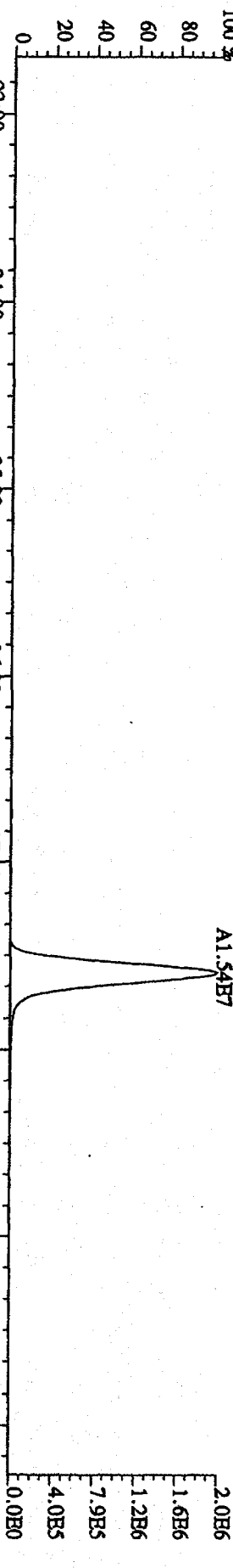
File: 19SE094D5 #1-604 Acq: 19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text: ST0919A : 2nd Source 09DXN300 Exp: DIOXIN
 339.8597 S: 4 F: 2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1672,0,1,00%,F,T)
 100 %



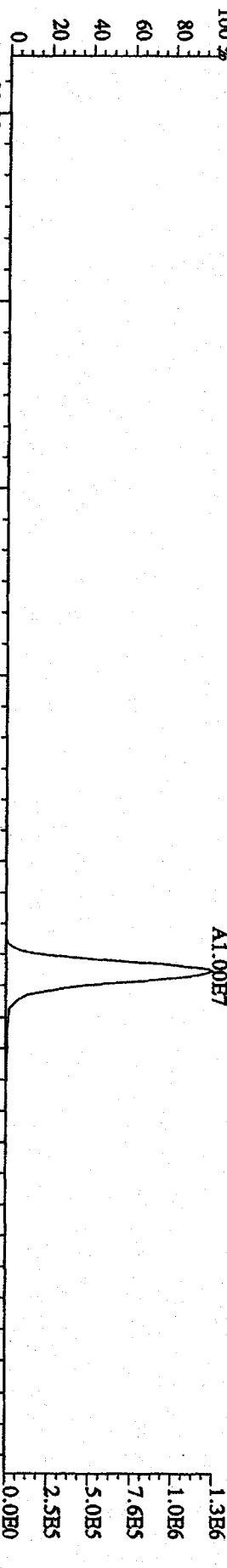
File:19SE094D5 #1-601 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:ST0919A :2nd Source 09DXN300 Exp:DIOXIN
 339.8597 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,124,0,1,100%,F,T)



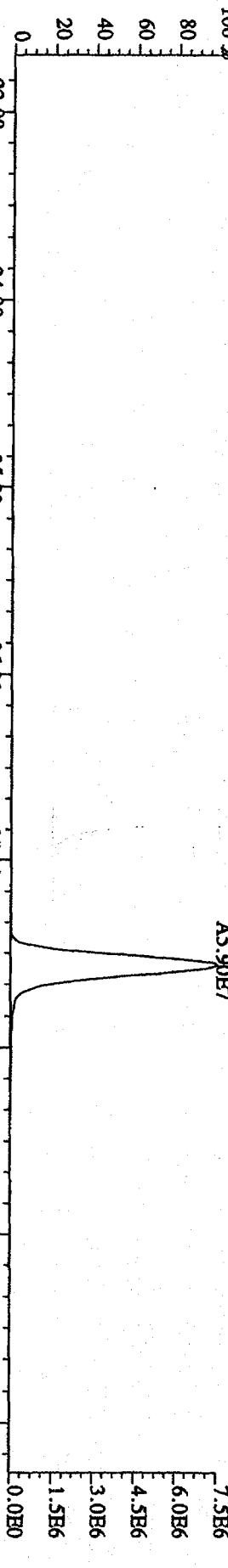
File:19SE094D5 #1-604 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0919A 2nd Source 09DXN300 Exp:DIOXIN
 355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1256,0.1,00%,F,T)
 100 %



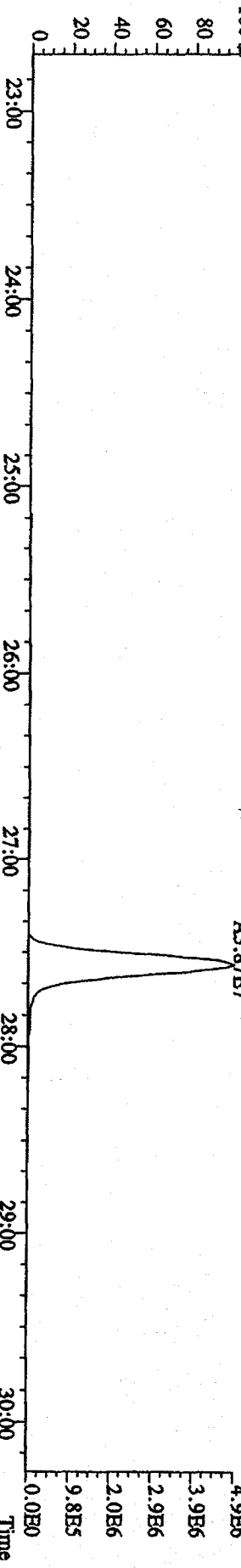
357.8516 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,444,0.1,00%,F,T)
 100 %



367.8949 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,988,0.1,00%,F,T)
 100 %



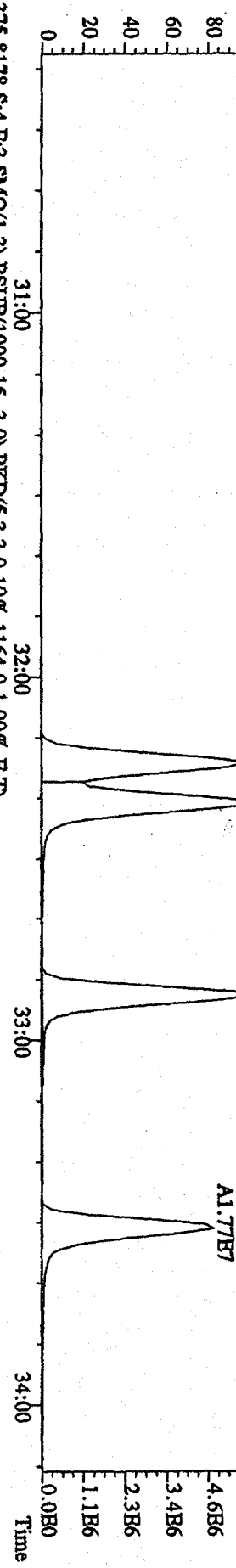
369.8919 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,192,0.1,00%,F,T)
 100 %



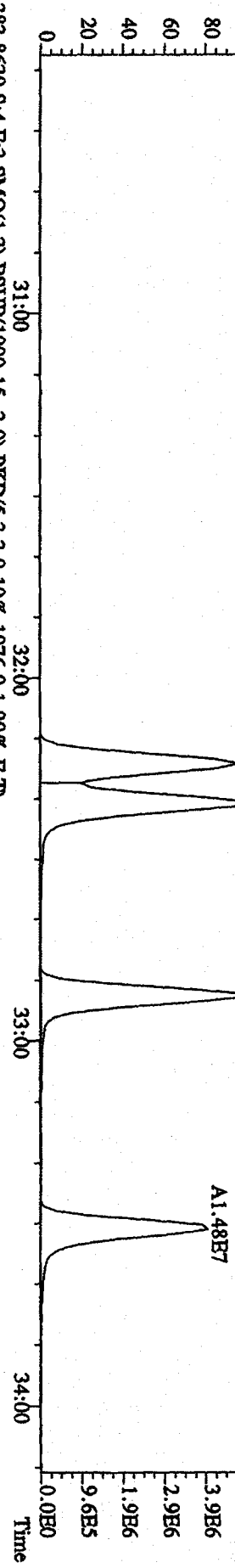
File:19SE094D5 #1-295 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UltraB

Sample#4 Text:ST0919A :2nd Source 09DXN300 Exp:DIOXIN

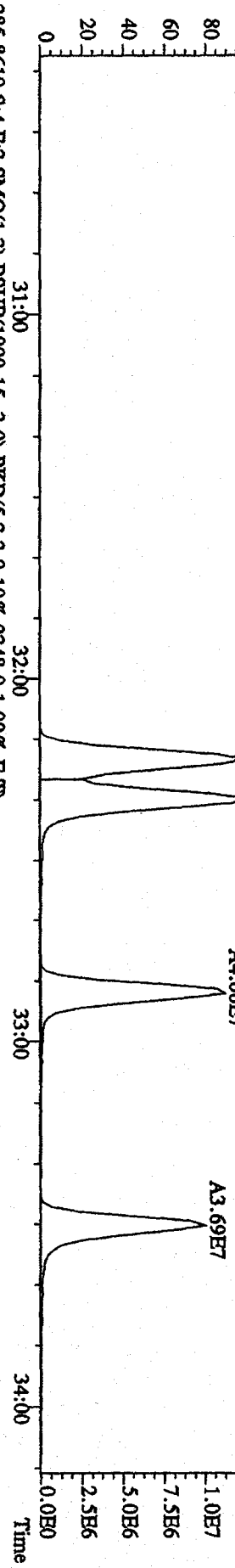
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1504,0.1,00%,F,T)



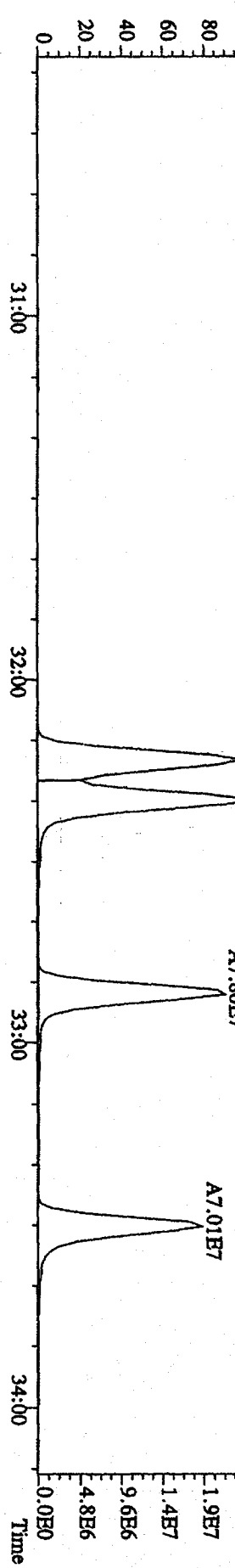
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1164,0.1,00%,F,T)



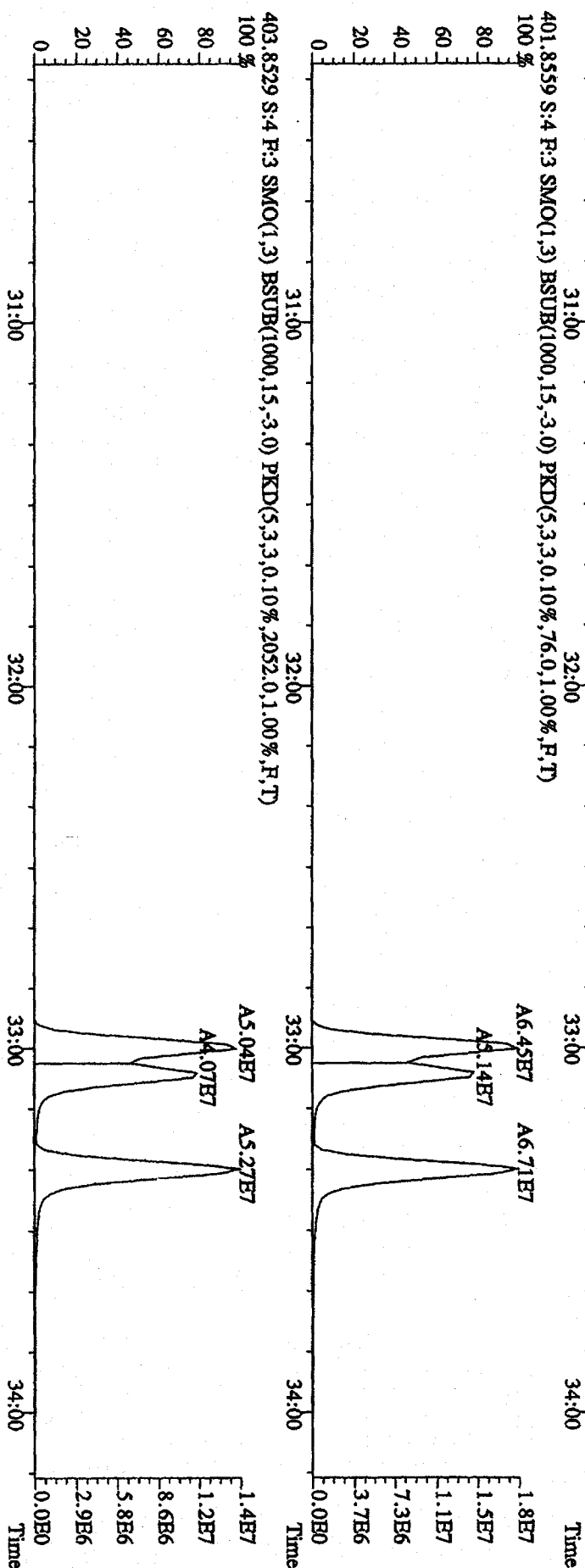
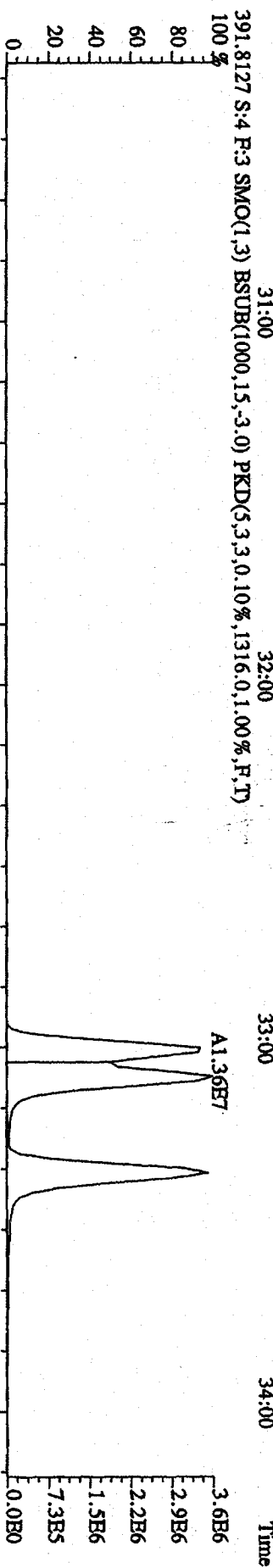
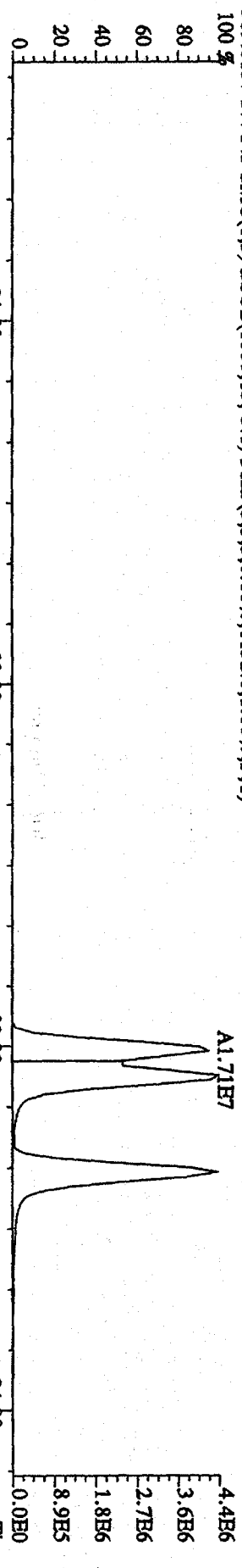
383.8639 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1976,0.1,00%,F,T)



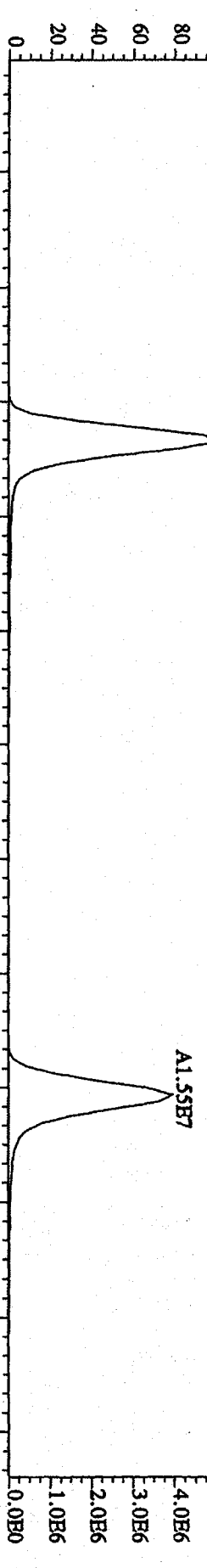
385.8610 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2348,0.1,00%,F,T)



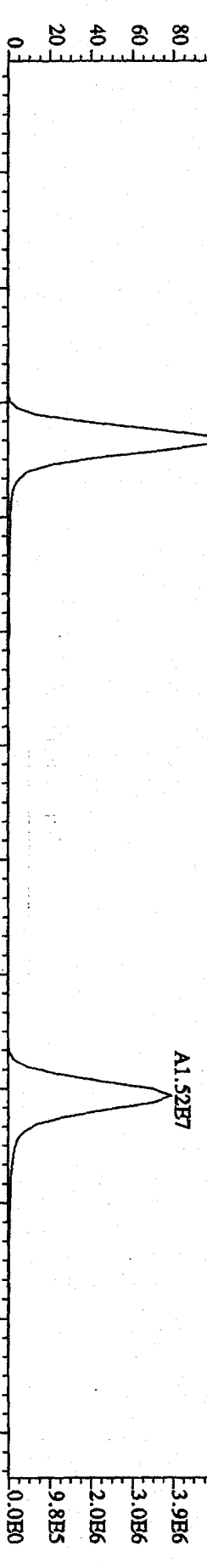
File:19SBE094D5 #1-295 Acq:19-SEP-2009 16:57:51 GC HI + Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0919A :2nd Source 09DXN300 Exp.:DIOXIN
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1132.0,1.00%,F,T)



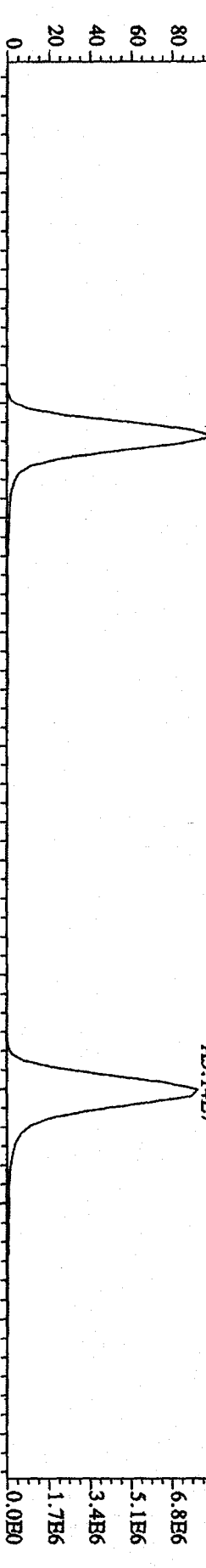
File:19SB094D5 #1-198 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:ST0919A :2nd Source 09DXN300 Exp:DIOXIN
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4624.0,1.00%,F,T)
 100 %



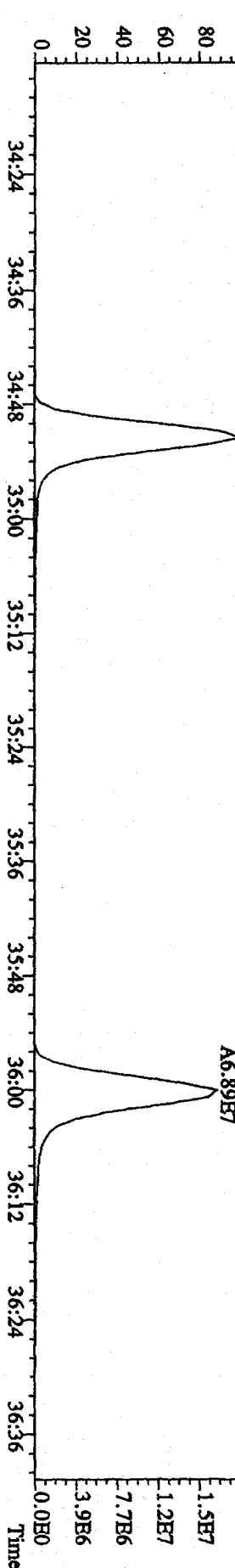
409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5084.0,1.00%,F,T)
 100 %



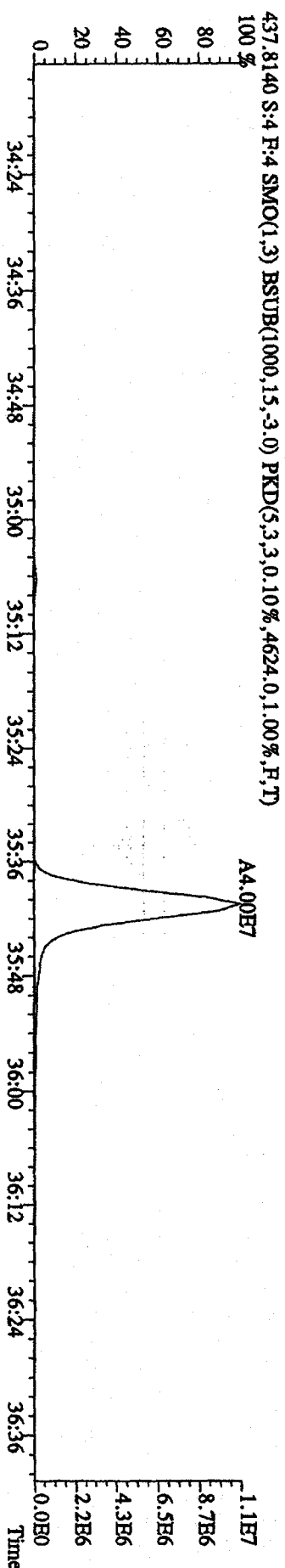
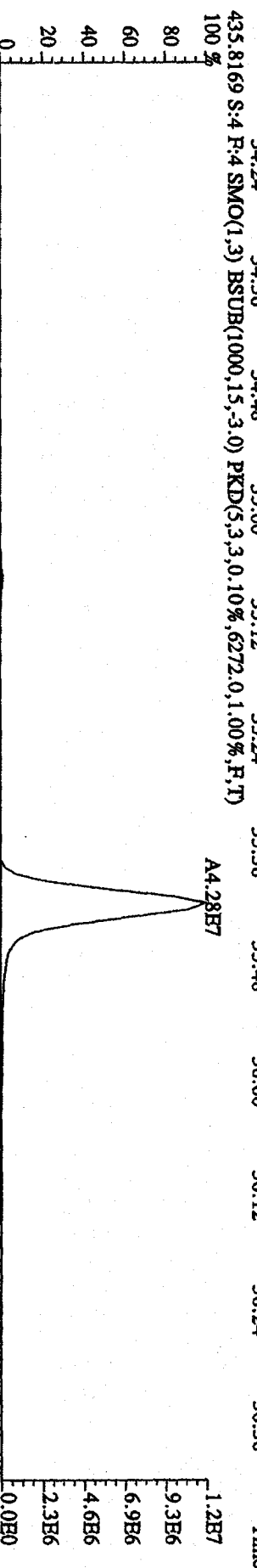
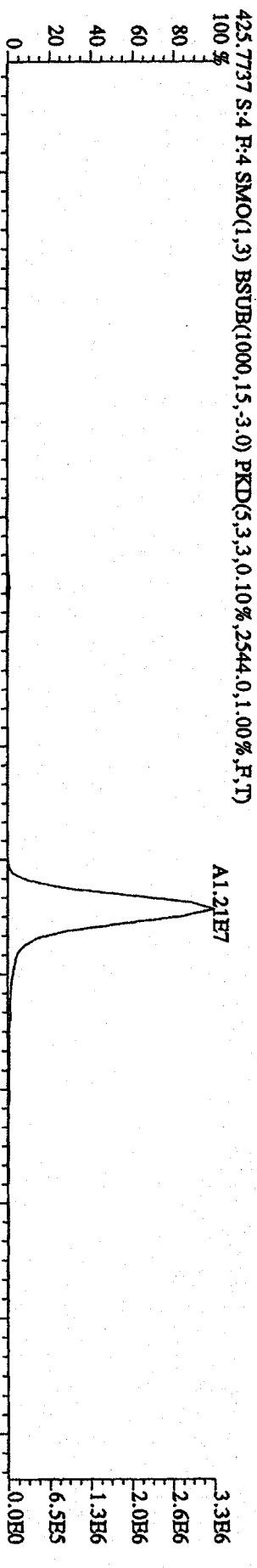
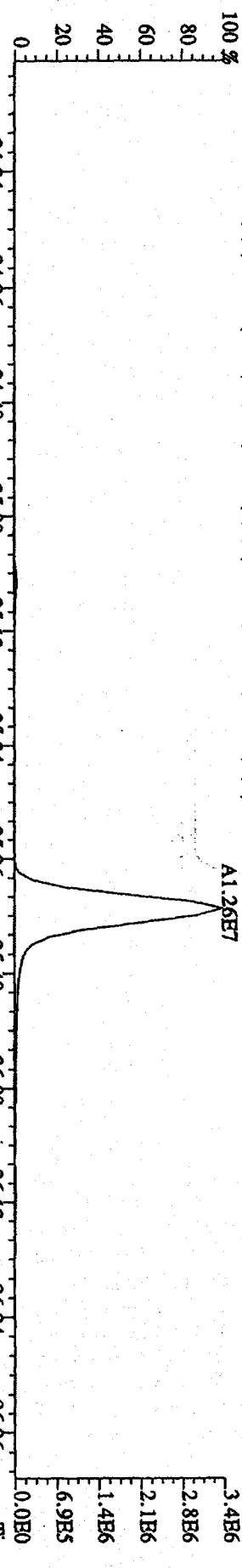
417.8253 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6336.0,1.00%,F,T)
 100 %



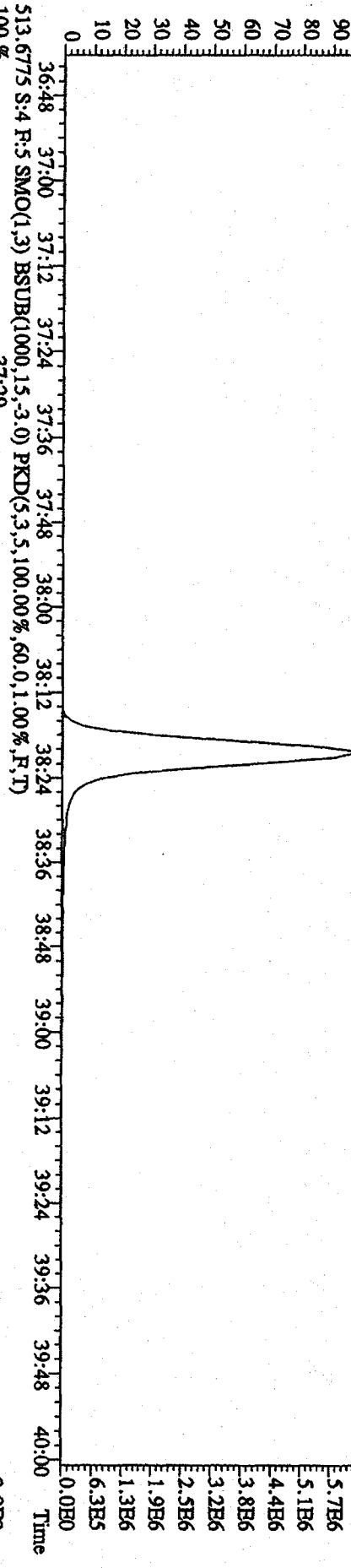
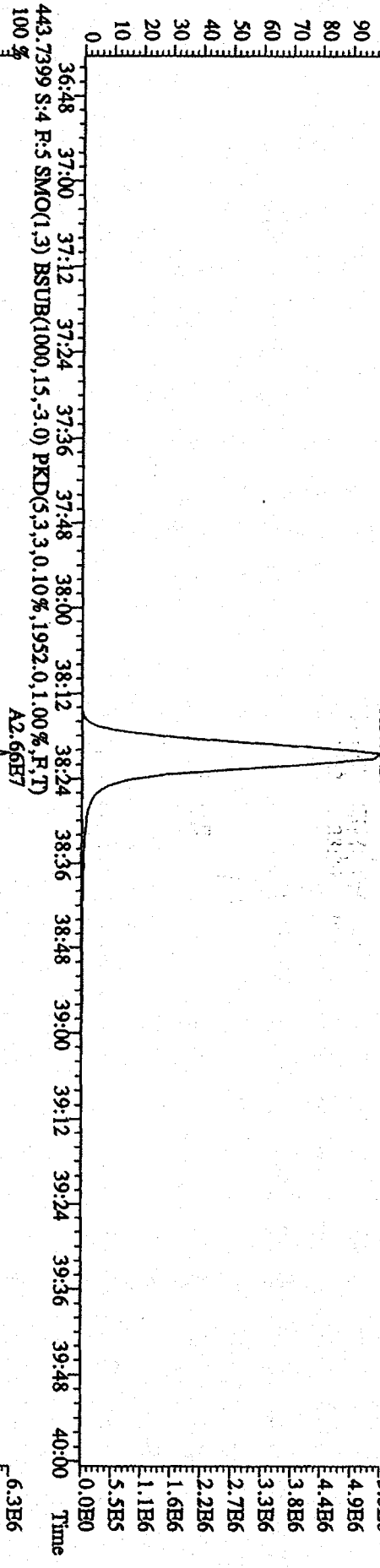
419.8220 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17060.0,1.00%,F,T)
 100 %



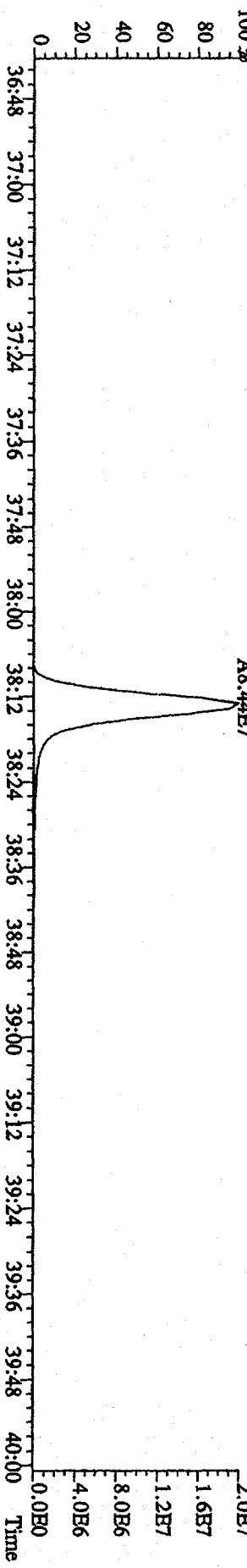
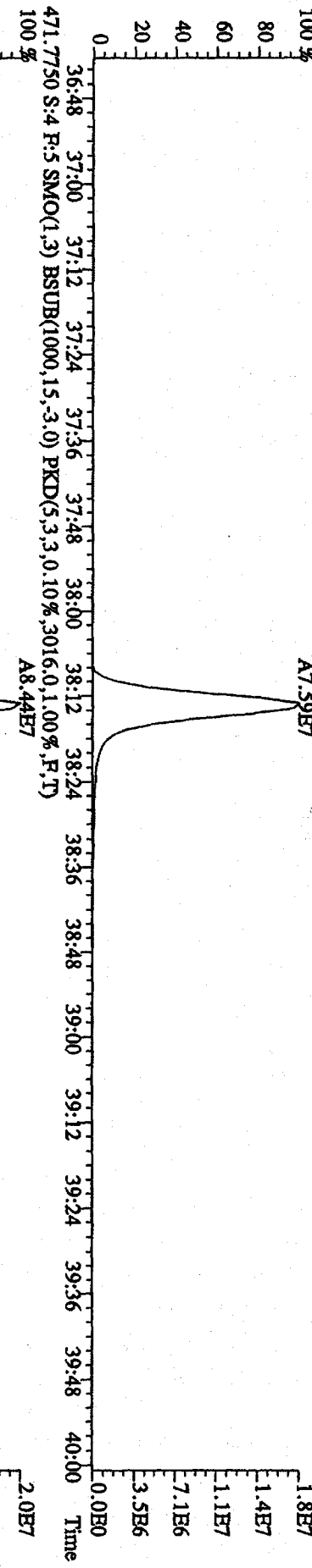
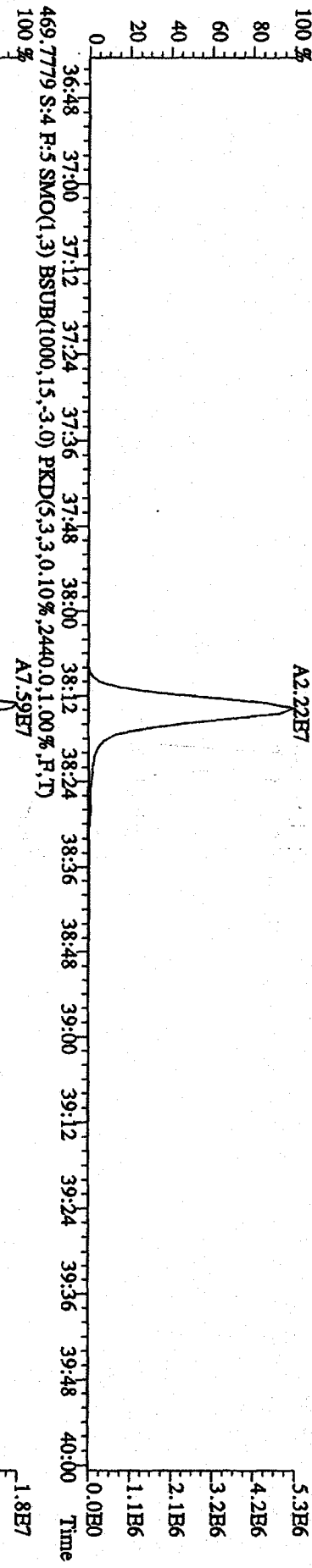
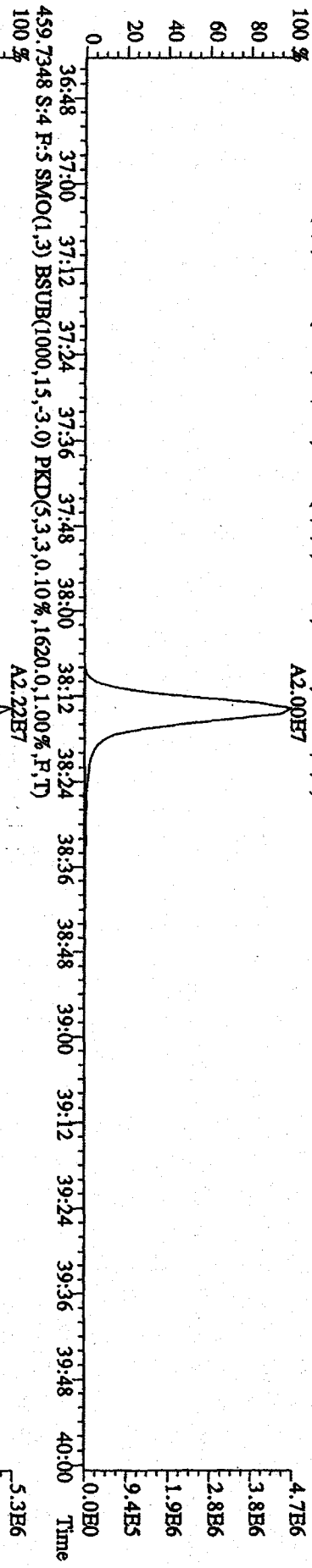
File:19SBE094D5 #1-198 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0919A :2nd Source 09DXN300 Exp:DIOXIN
 423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.3356,0.1,0.0%,F,T)
 100 %



File: 19SE094D5 #1-268 Acq: 19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text: ST0919A 2nd Source 09DXN300 Exp: DIOXIN
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1.952,0,1.00%,F,T)
 A2.37E7



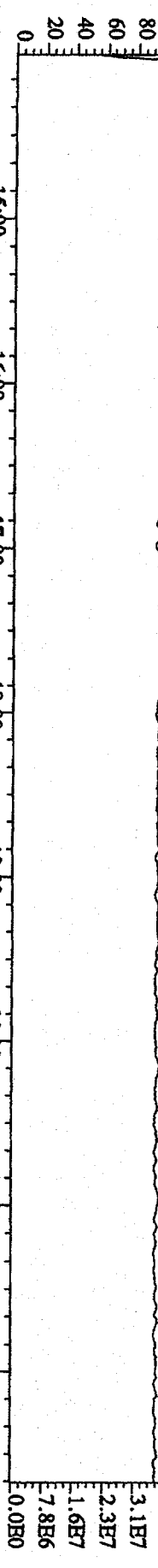
File: 19SE094D5 #1-268 Acq: 19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text: ST0919A 2nd Source 09DXN300 Exp: DIOXIN
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1252.0,1.00%,F,T)
 100%



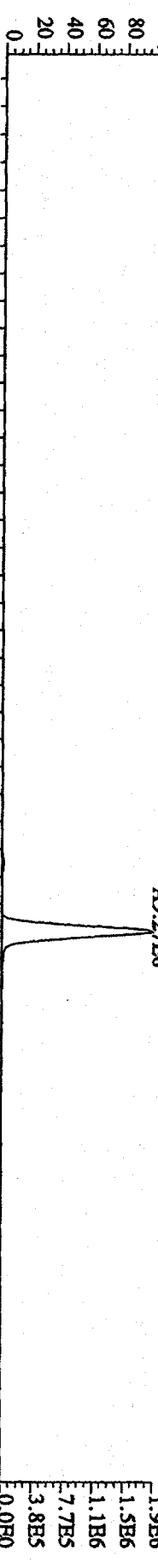
File:19SE094D5 #1-601 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UltimaE

Sample#4 Text:ST0919A 2nd Source 09DXN300 Exp:DIOXIN

292.9825 S:4 SMO(1.3) PKD(5.3,5,100.00%,0.0,1.00%,F,T)



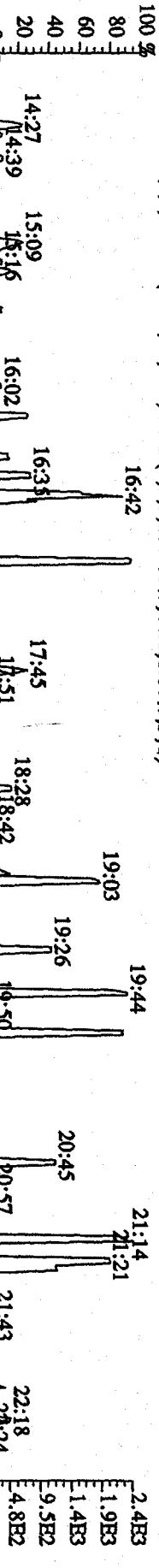
303.9016 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,664,0.1,00%,F,T)



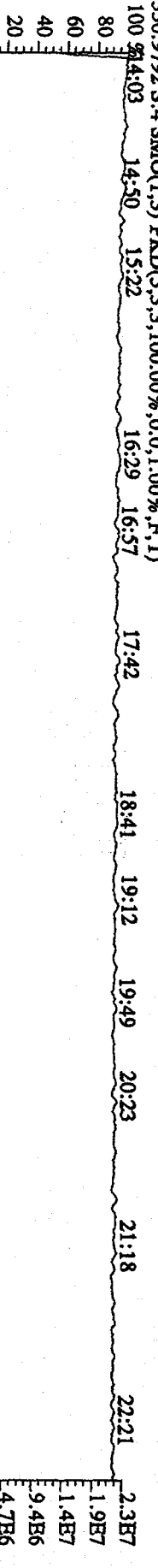
305.8987 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,144,0.1,00%,F,T)



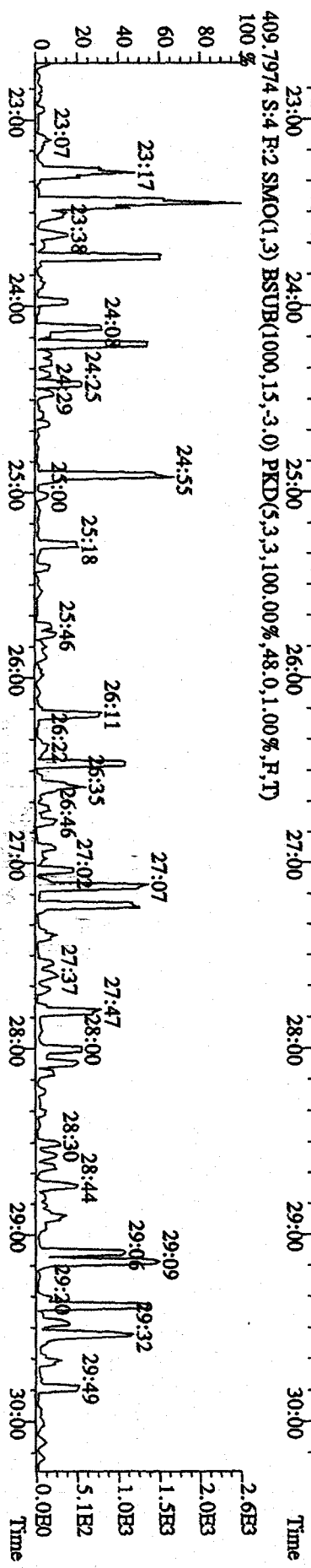
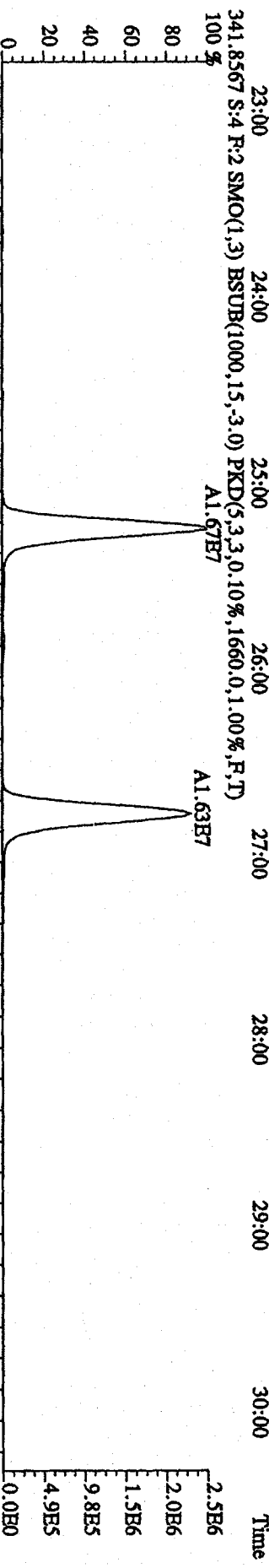
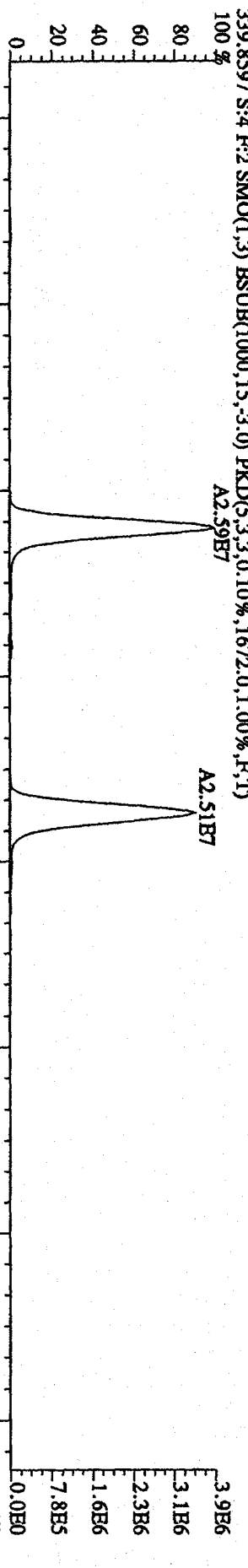
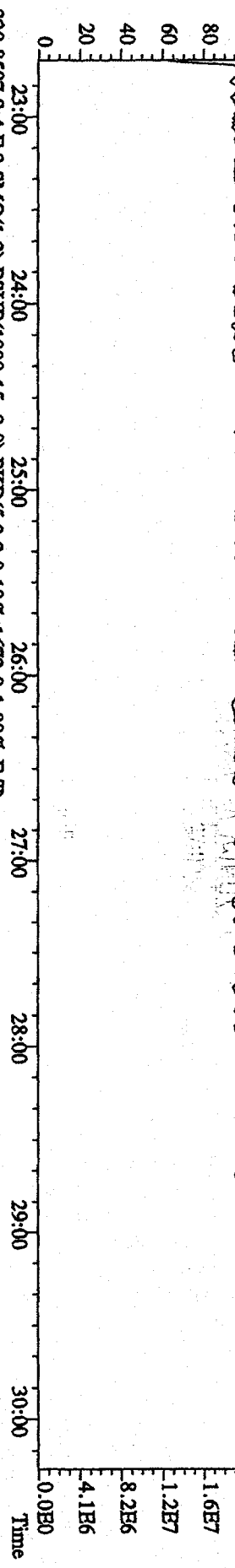
375.8364 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,44,0.1,00%,F,T)



330.9792 S:4 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



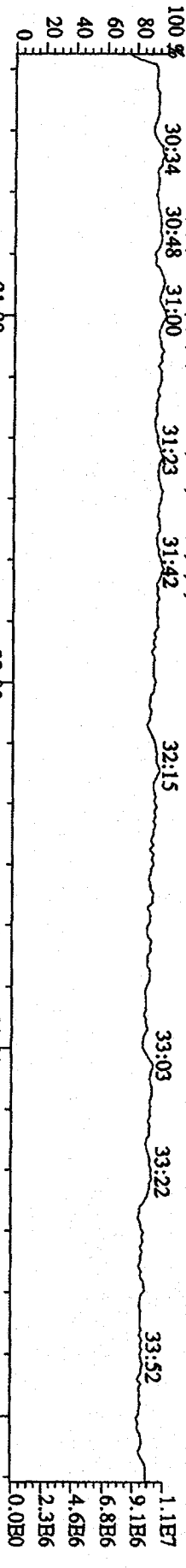
File:19SE094D5 #1-604 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text:ST0919A :2nd Source 09DXN300 Exp:DIOXIN
 342.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 23:12 23:44 24:30 24:59 25:37 26:03 26:42 27:17 28:11 28:52 29:31 29:58



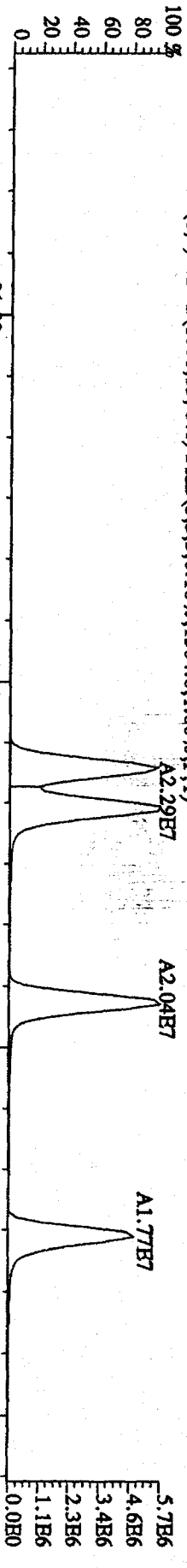
File: 19SE094D5 #1-295 Acq: 19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-Ultimate

Sample#4 Text: ST0919A : 2nd Source 09DXN300 Exp: DIOXIN

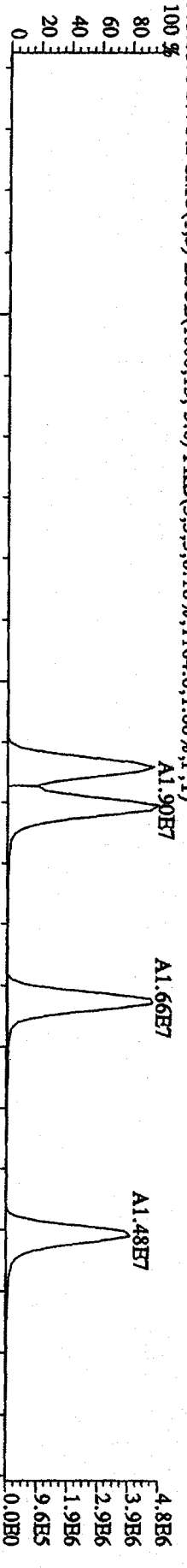
392.9760 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



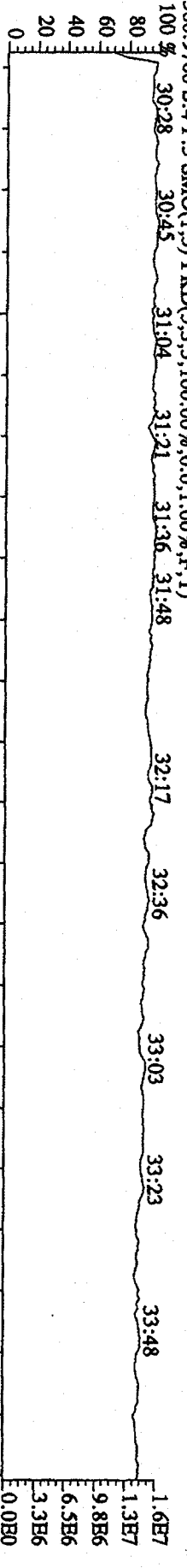
373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1504.0,1.00%,F,T)



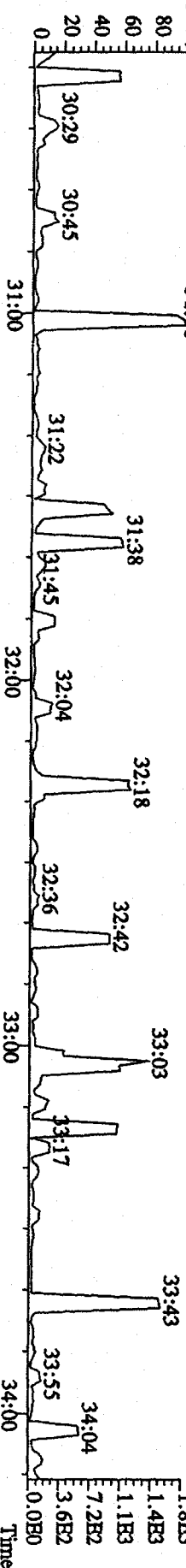
375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1164.0,1.00%,F,T)



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

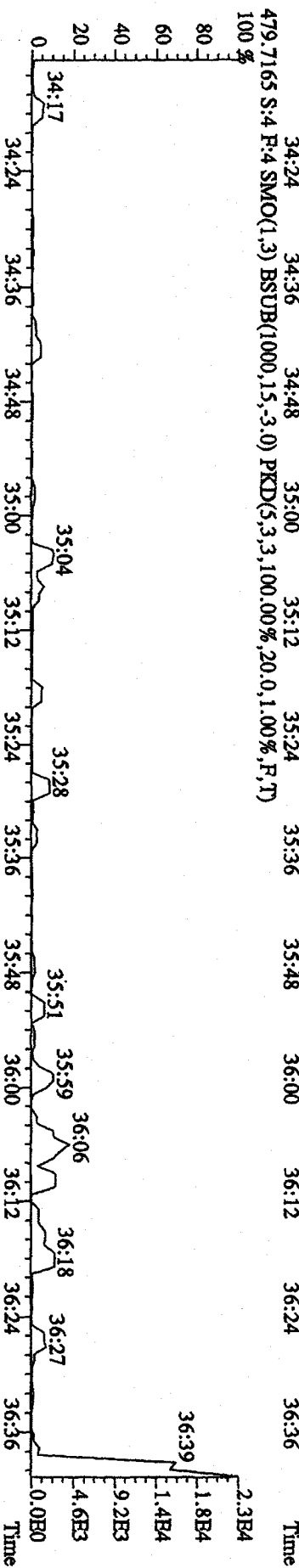
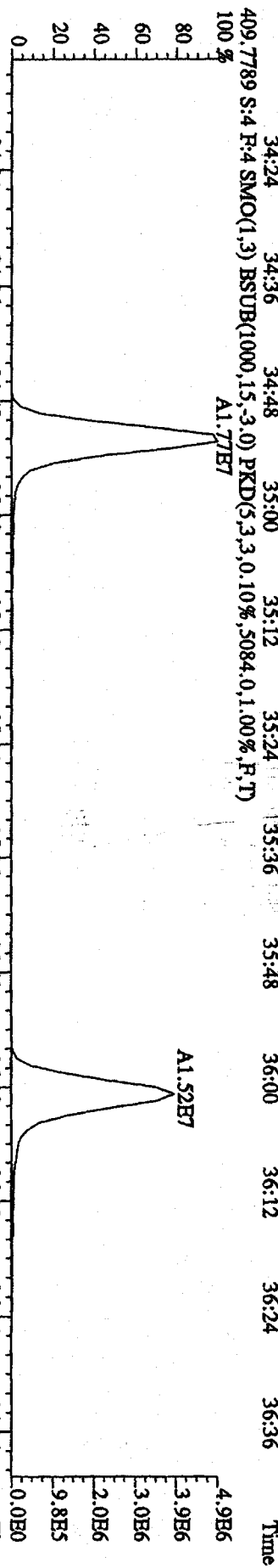
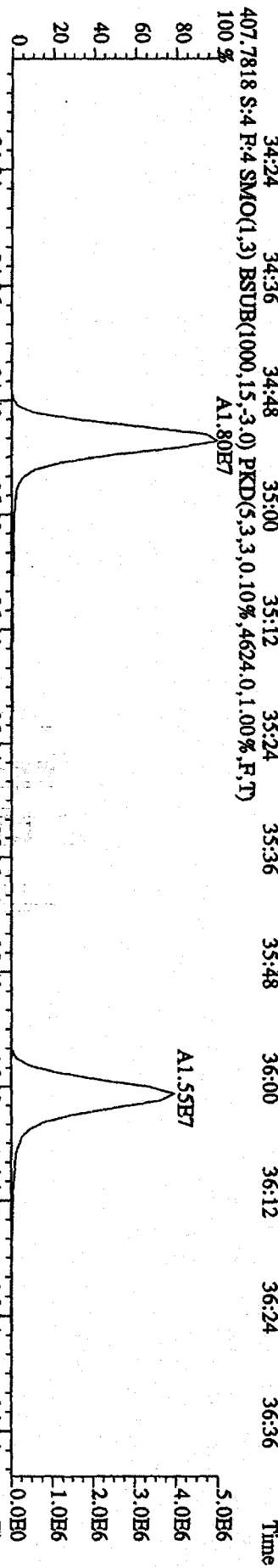
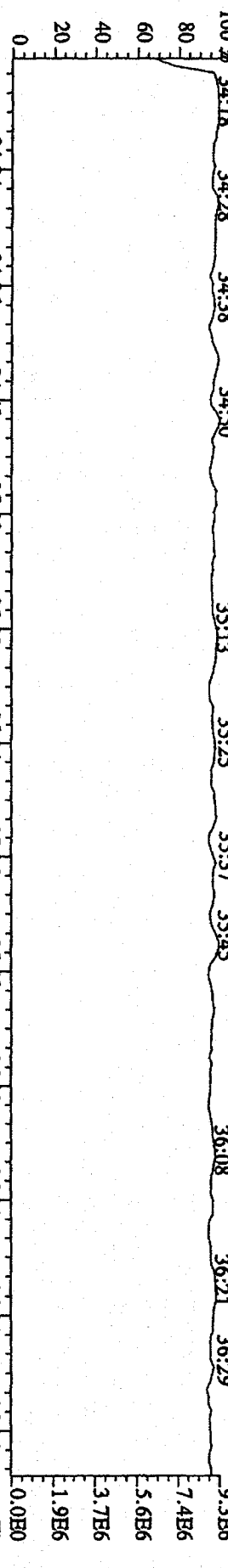


445.7555 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,52.0,1.00%,F,T)

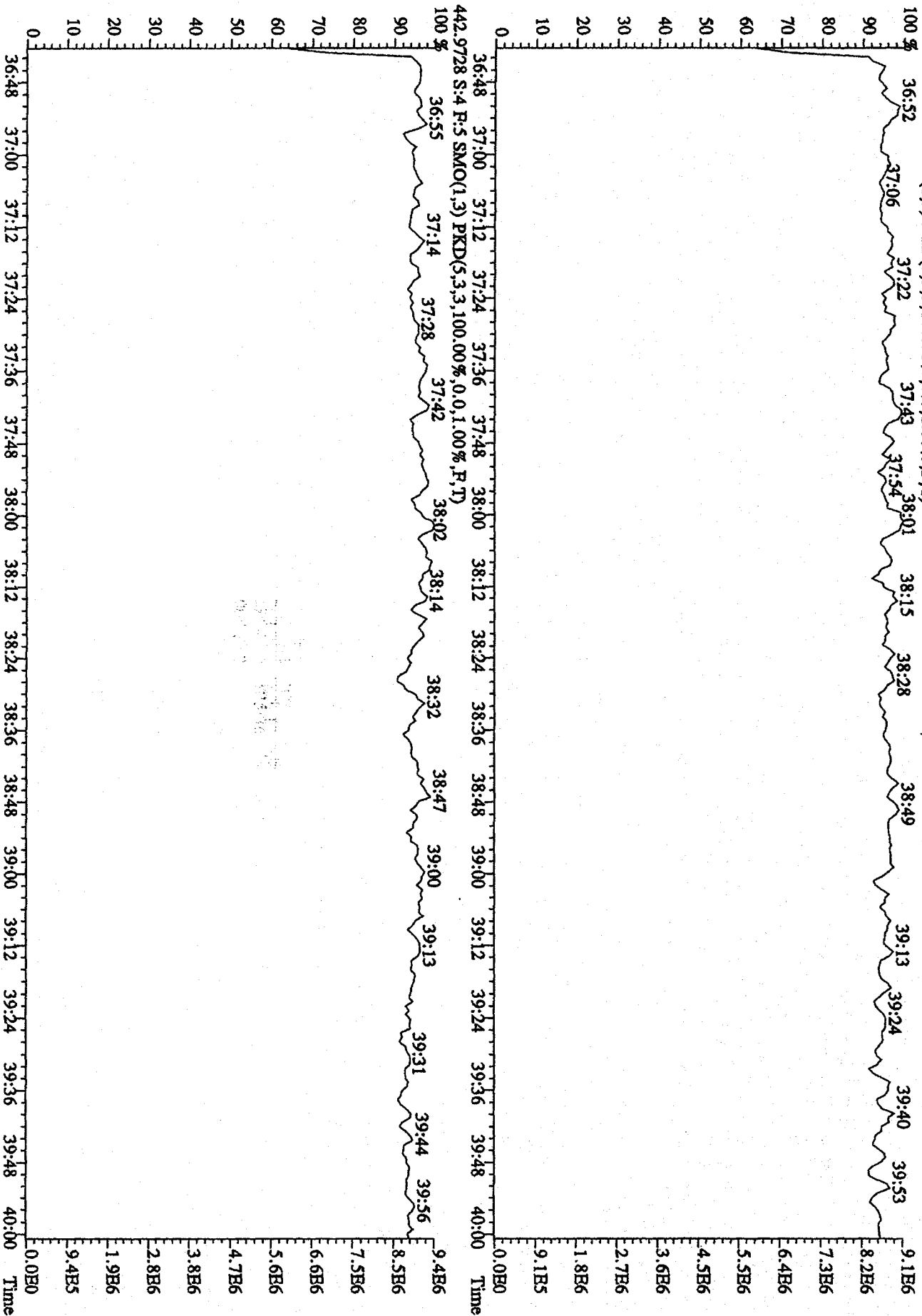


File:19SB094D5 #1-198 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UltimaB

Sample#4 Text:ST0919A :2nd Source 09DXN300 Exp:DIOXIN



File:19SE094D5 #1-268 Acq:19-SEP-2009 16:57:51 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text:ST0919A :2nd Source 09DXN300 Exp:DIOXIN
 454.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Initial Calibration Checklist Dioxin Methods

ICAL ID (DB225, DB225AIR) 1021095D2

Method ID 8290, 1613B, Tetras, 23, 0023A, TO9

Date Scanned 10/22/09 ^{11/09/09}

Column ID DB225

Instrument ID 5D2

STD ID's ST1021A, B, C, D, E

STD Solution (G9DXN)- 236, 237, 123, 311, 240

GC Program DB225

Multiplier Setting 820 kV

Analyzed By KAS

Date Analyzed 10/21/09, 10/22/09

Prepared By KSS

Date Prepared 10/22/09

Reviewed By M.G.

Date Reviewed 10/22/09

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 RT 13C-1,2,3,4-TCDD = 14:32

*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: 21OC095D2 Analyte: DB225

Cal: DB2251021095D2

ST1021A : CS1 09DXN236
ST1021D : CS4 09DXN311

ST1021B : CS2 09DXN237
ST1021E : CS5 09DXN240

ST1021C : CS3 09DXN123

21OC095D2 21OC095D2 21OC095D2 21OC095D2 21OC095D2

Name	Mean	S. D.	%RSD	RRF				
				S3	S4	S5	S6	S7
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46
37Cl-2,3,7,8-TCDD	2.705	0.282	10.4 %	2.28	2.70	2.80	3.06	2.68

Run #1 Filename 21OC095D2 S: 3 I: 1
Acquired: 21-OCT-09 22:40:02 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021A :CS1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	159777300	0.75 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	283074000	0.83 y	15:41	1.772	100.00	n
2,3,7,8-TCDF	1837089	0.82 y	15:42	1.298	0.50	n
13C-2,3,7,8-TCDD	145710700	0.76 y	14:17	0.912	100.00	n
2,3,7,8-TCDD	1060714	0.85 y	14:19	1.456	0.50	n
37Cl-2,3,7,8-TCDD	1820036	1.00 y	14:19	2.278	0.50	n

Run #2 Filename 21OC095D2 S: 4 I: 1
Acquired: 21-OCT-09 23:17:05 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021B :CS2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	146762200	0.80 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	295537000	0.84 y	15:40	2.014	100.00	n
2,3,7,8-TCDF	7158100	0.67 y	15:42	1.211	2.00	n
13C-2,3,7,8-TCDD	139584500	0.75 y	14:17	0.951	100.00	n
2,3,7,8-TCDD	4525160	0.83 y	14:19	1.621	2.00	n
37Cl-2,3,7,8-TCDD	7927020	1.00 y	14:18	2.701	2.00	n

Run #3 Filename 21OC095D2 S: 5 I: 1
Acquired: 21-OCT-09 23:54:06 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021C :CS3 09DXN123

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	158503900	0.74 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	315863000	0.85 y	15:40	1.993	100.00	n
2,3,7,8-TCDF	37100400	0.73 y	15:41	1.175	10.00	n
13C-2,3,7,8-TCDD	156056100	0.74 y	14:17	0.985	100.00	n
2,3,7,8-TCDD	23336700	0.86 y	14:18	1.495	10.00	n
37Cl-2,3,7,8-TCDD	44361400	1.00 y	14:18	2.799	10.00	n

Run #4 Filename 21OC095D2 S: 6 I: 1
Acquired: 22-OCT-09 00:31:07 Processed: 22-OCT-09 10:13:20
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021D :CS4 09DXN311

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	134818500	0.80 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	282970000	0.86 y	15:40	2.099	100.00	n
2,3,7,8-TCDF	125144200	0.67 y	15:41	1.106	40.00	n
13C-2,3,7,8-TCDD	140240600	0.79 y	14:17	1.040	100.00	n
2,3,7,8-TCDD	84166000	0.88 y	14:18	1.500	40.00	n
37Cl-2,3,7,8-TCDD	165061800	1.00 y	14:17	3.061	40.00	n

Run #5 Filename 21OC095D2 S: 7 I: 1
Acquired: 22-OCT-09 01:08:10 Processed: 22-OCT-09 10:13:20
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021E :CS5 09DXN240

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	160493400	0.77 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	321050000	0.84 y	15:39	2.000	100.00	n
2,3,7,8-TCDF	712667000	0.71 y	15:40	1.110	200.00	n
13C-2,3,7,8-TCDD	155146500	0.74 y	14:17	0.967	100.00	n
2,3,7,8-TCDD	452444000	0.87 y	14:18	1.458	200.00	n
37Cl-2,3,7,8-TCDD	861636000	1.00 y	14:18	2.684	200.00	n

Run: 210C095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	210C095D2										
				S3	S4	S5	S6	S7	RRF1	RRF2	RRF3	RRF4	RRF5	
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00	1.30	1.21	1.17	1.11	1.11	1.11
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11	1.30	1.21	1.17	1.11	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97	1.46	1.62	1.50	1.50	1.50	1.46
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46	1.46	1.62	1.50	1.50	1.50	1.46
37Cl-2,3,7,8-TCDD	2.780	0.168	6.05 %	2.50	2.84	2.84	2.94	2.78	2.50	2.84	2.84	2.94	2.78	2.78

Run #1 Filename 21OC095D2 S: 3 I: 1
Acquired: 21-OCT-09 22:40:02 Processed: 22-OCT-09 11:29:34
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:

Sample text: ST1021A :CS1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	159777300	0.75 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	283074000	0.83 y	15:41	1.772	100.00	n
2,3,7,8-TCDF	1837089	0.82 y	15:42	1.298	0.50	n
13C-2,3,7,8-TCDD	145710700	0.76 y	14:17	0.912	100.00	n
2,3,7,8-TCDD	1060714	0.85 y	14:19	1.456	0.50	n
37Cl-2,3,7,8-TCDD	1820036	1.00 y	14:19	2.498	0.50	n

Run #2 Filename 21OC095D2 S: 4 I: 1
Acquired: 21-OCT-09 23:17:05 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:

Sample text: ST1021B :CS2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	146762200	0.80 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	295537000	0.84 y	15:40	2.014	100.00	n
2,3,7,8-TCDF	7158100	0.67 y	15:42	1.211	2.00	n
13C-2,3,7,8-TCDD	139584500	0.75 y	14:17	0.951	100.00	n
2,3,7,8-TCDD	4525160	0.83 y	14:19	1.621	2.00	n
37Cl-2,3,7,8-TCDD	7927020	1.00 y	14:18	2.840	2.00	n

Run #3 Filename 21OC095D2 S: 5 I: 1
Acquired: 21-OCT-09 23:54:06 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:

Sample text: ST1021C :CS3 09DXN123

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	158503900	0.74 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	315863000	0.85 y	15:40	1.993	100.00	n
2,3,7,8-TCDF	37100400	0.73 y	15:41	1.175	10.00	n
13C-2,3,7,8-TCDD	156056100	0.74 y	14:17	0.985	100.00	n
2,3,7,8-TCDD	23336700	0.86 y	14:18	1.495	10.00	n
37C1-2,3,7,8-TCDD	44361400	1.00 y	14:18	2.843	10.00	n

Run #4 Filename 21OC095D2 S: 6 I: 1
Acquired: 22-OCT-09 00:31:07 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:

Sample text: ST1021D :CS4 09DXN311

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	134818500	0.80 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	282970000	0.86 y	15:40	2.099	100.00	n
2,3,7,8-TCDF	125144200	0.67 y	15:41	1.106	40.00	n
13C-2,3,7,8-TCDD	140240600	0.79 y	14:17	1.040	100.00	n
2,3,7,8-TCDD	84166000	0.88 y	14:18	1.500	40.00	n
37Cl-2,3,7,8-TCDD	165061800	1.00 y	14:17	2.942	40.00	n

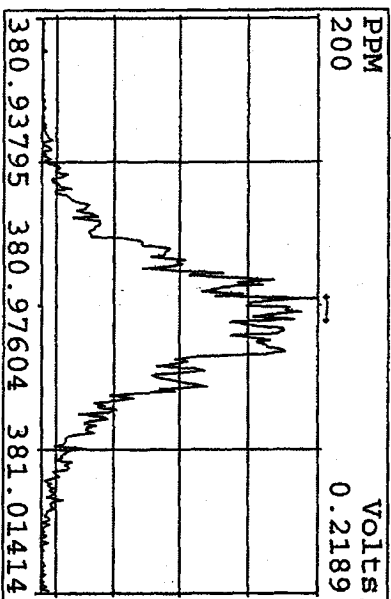
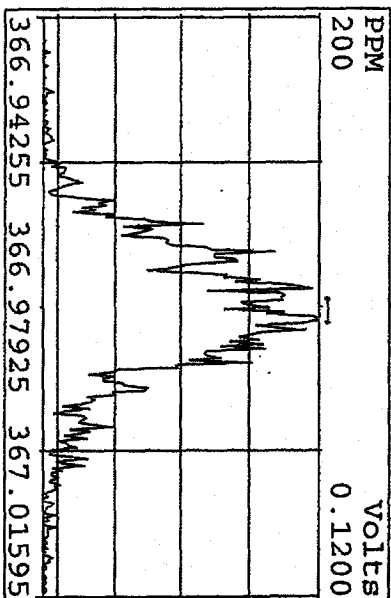
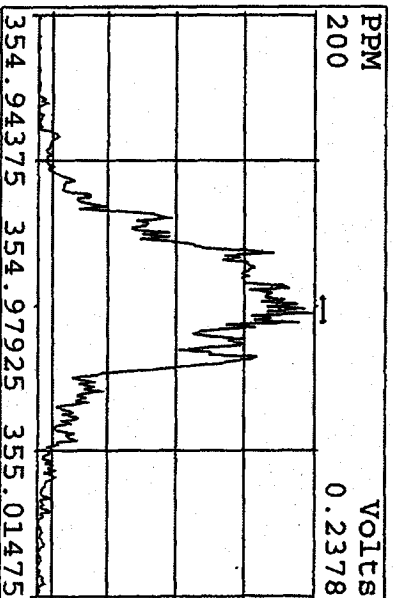
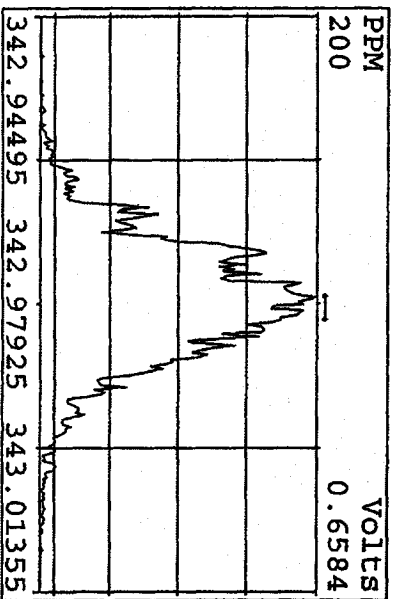
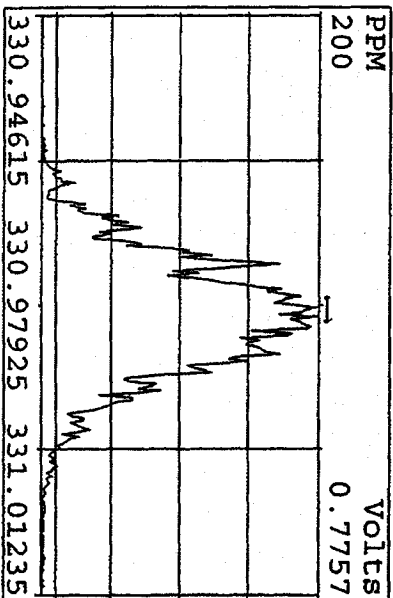
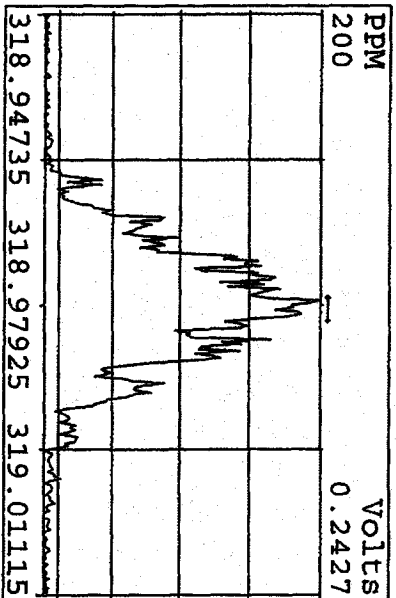
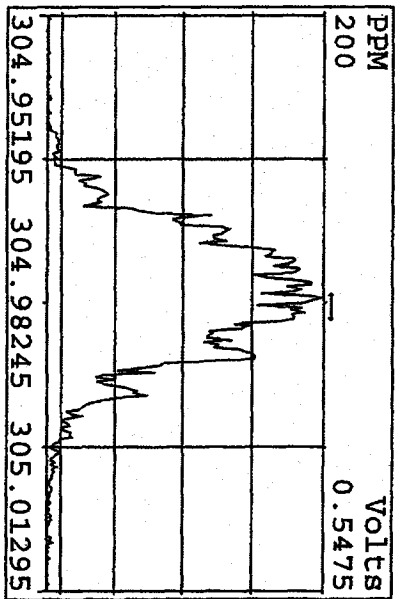
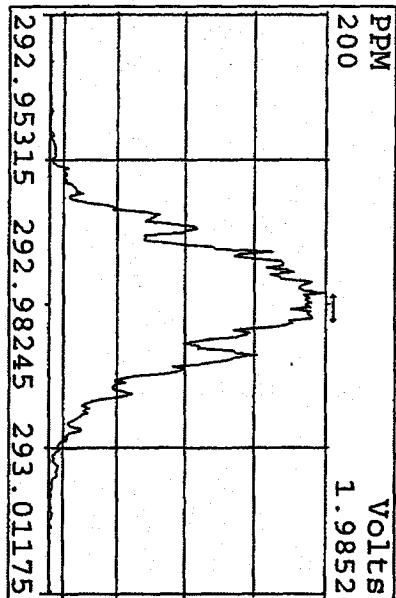
Run #5 Filename 21OC095D2 S: 7 I: 1
Acquired: 22-OCT-09 01:08:10 Processed: 22-OCT-09 11:29:36
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:
Sample text: ST1021E :CS5 09DXN240

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	160493400	0.77 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	321050000	0.84 y	15:39	2.000	100.00	n
2,3,7,8-TCDF	712667000	0.71 y	15:40	1.110	200.00	n
13C-2,3,7,8-TCDD	155146500	0.74 y	14:17	0.967	100.00	n
2,3,7,8-TCDD	452444000	0.87 y	14:18	1.458	200.00	n
37Cl-2,3,7,8-TCDD	861636000	1.00 y	14:18	2.777	200.00	n

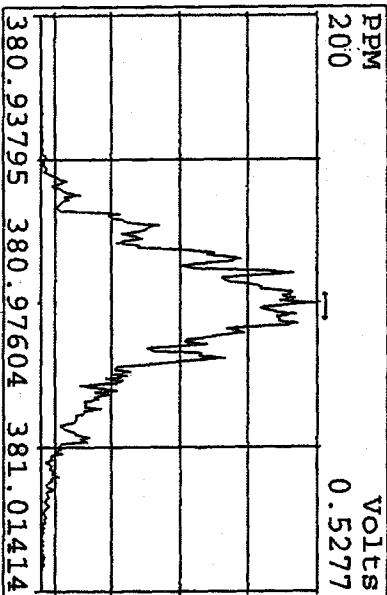
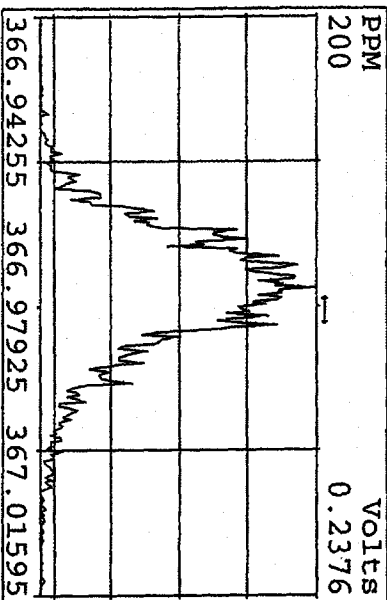
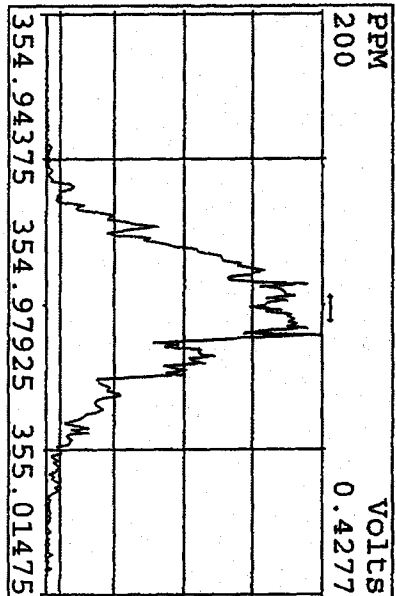
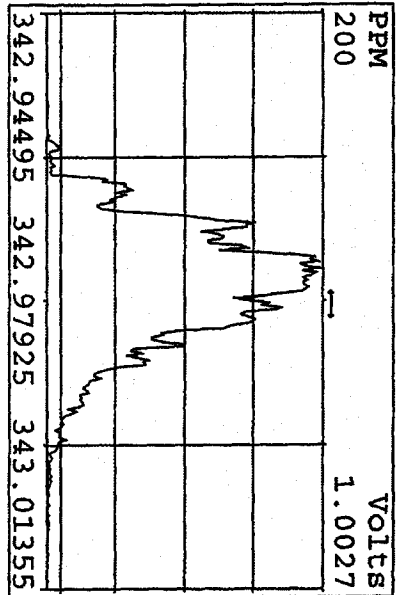
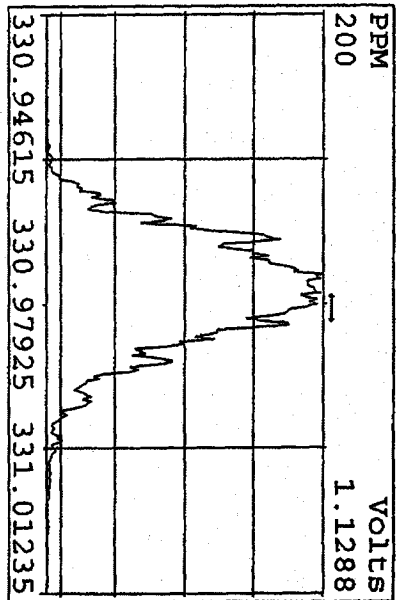
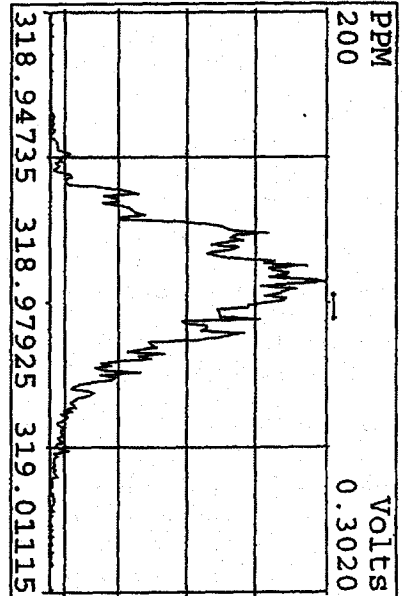
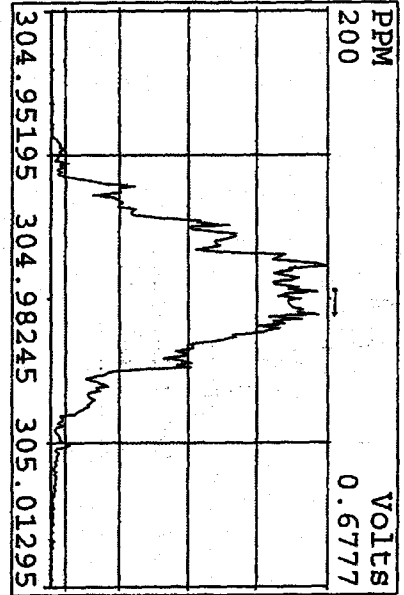
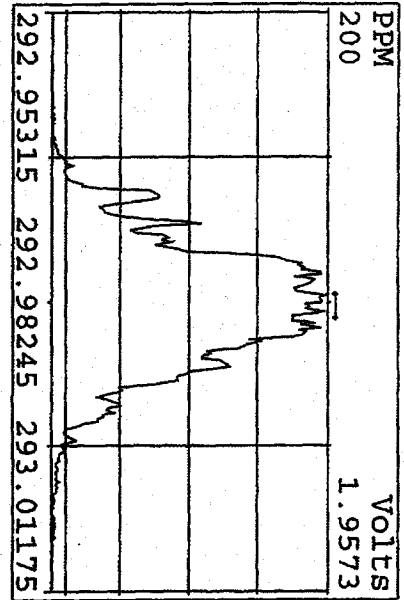
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
21OC095D2	1	ST1021	CS1 09DXN236		SENS.CHECK		1.000	
21OC095D2	2	CP1021	DB-225 CPSM 3732-01				1.000	
21OC095D2	3	ST1021A	CS1 09DXN236				1.000	
21OC095D2	4	ST1021B	CS2 09DXN237				1.000	
21OC095D2	5	ST1021C	CS3 09DXN123				1.000	
21OC095D2	6	ST1021D	CS4 09DXN311				1.000	
21OC095D2	7	ST1021E	CS5 09DXN240				1.000	
21OC095D2	8	ST1021F	2nd Source 09DXN300				1.000	
21OC095D2	9	SB1021	C-14 SOLVENT BLANK				1.000	
21OC095D2	10	CP1021A	DB-225 CPSM 3732-01				1.000	
21OC095D2	11	ST1021G	CS3 09DXN123				1.000	
21OC095D2	12	SB1021A	C-14 SOLVENT BLANK				1.000	
21OC095D2	13	LL3C6-1-AC	G9J060234-1	20	8290/WATER	79	0.576	L
21OC095D2	14	LL3DH-1-AC	G9J060234-2	20	8290/WATER		0.564	L
21OC095D2	15	LLC4P-1-AC	G9I230350-1	20	8290/SOLID	84	10.170	g
21OC095D2	16	LLC4R-1-AC	G9I230350-3	20	8290/SOLID		10.010	g
21OC095D2	17	LLC4T-1-AC	G9I230350-4	20	8290/SOLID		10.020	g
21OC095D2	18	SB1021A	C-14 SOLVENT BLANK				1.000	
21OC095D2	19	ST1021H	CS3 09DXN123				1.000	
21OC095D2	20						1.000	
21OC095D2	21						1.000	
21OC095D2	22						1.000	
21OC095D2	23		KAS/KSS 9-21-09				1.000	
21OC095D2	24						1.000	
21OC095D2	25						1.000	
21OC095D2	26						1.000	

*logfile vid
10/22/09
KSS*

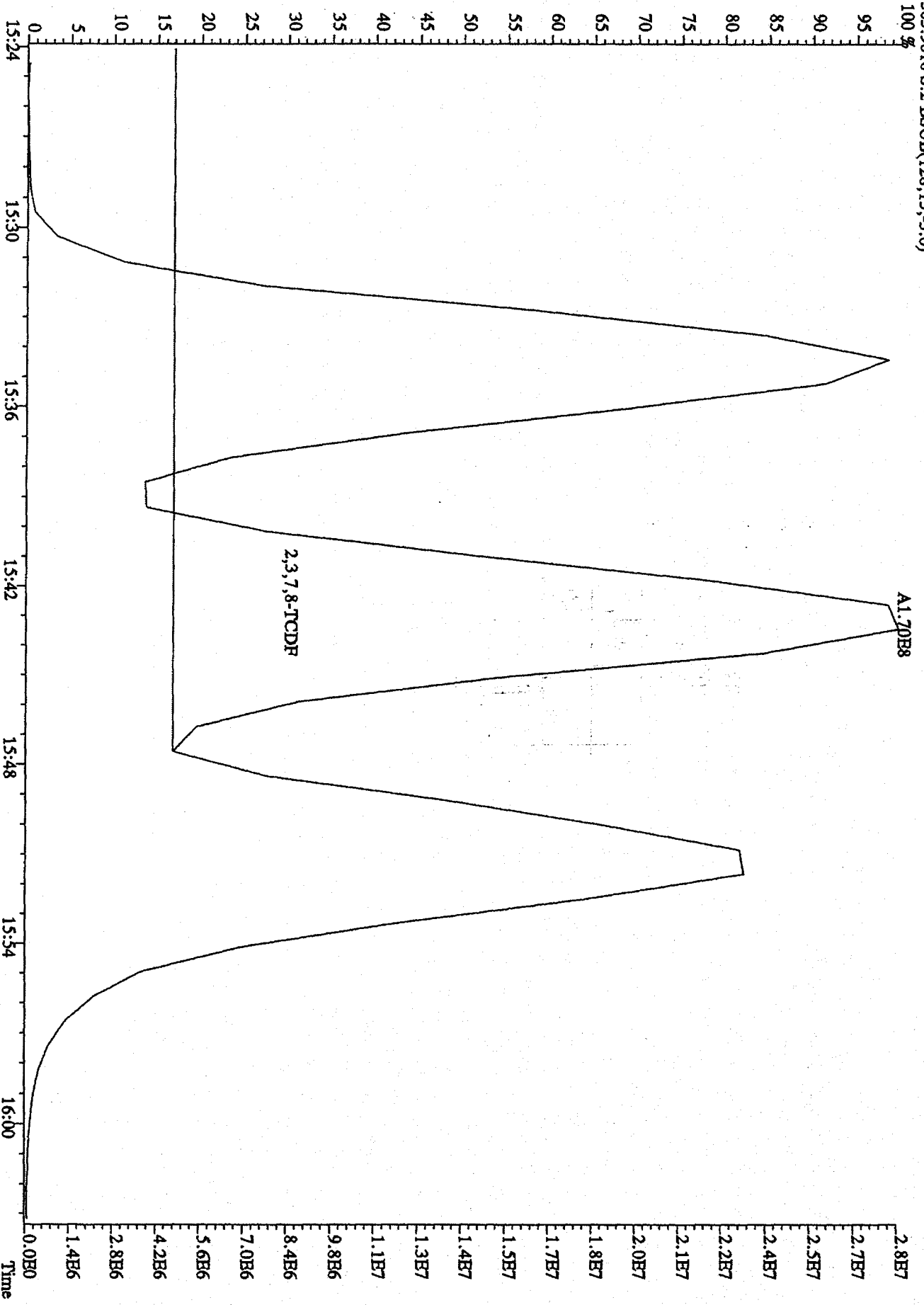
Peak Locate Examination: 21-OCT-2009: 21:25 File: 210C095D2
 Experiment: DB225 Function: 1 Reference: PRK



Peak Locate Examination: 22-OCT-2009: 09:19 File: 210C095D2ENDRES
 Experiment: DB225 Function: 1 Reference: PFK



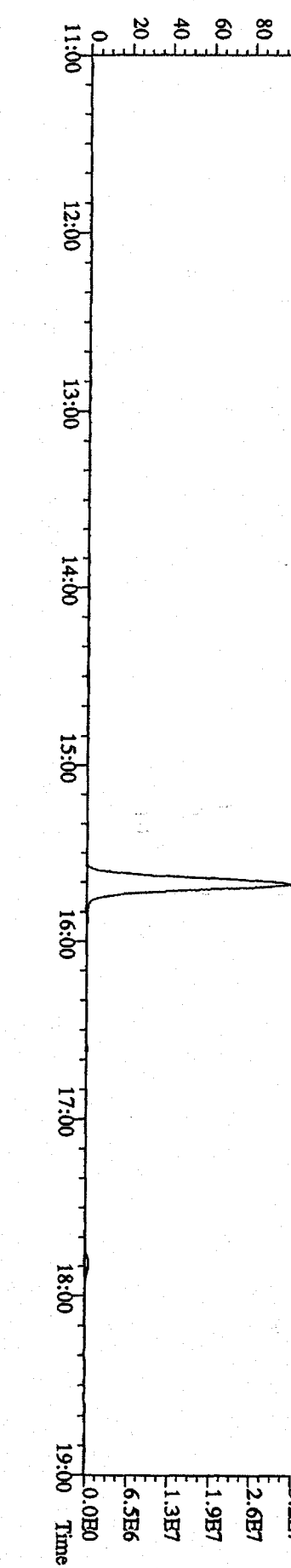
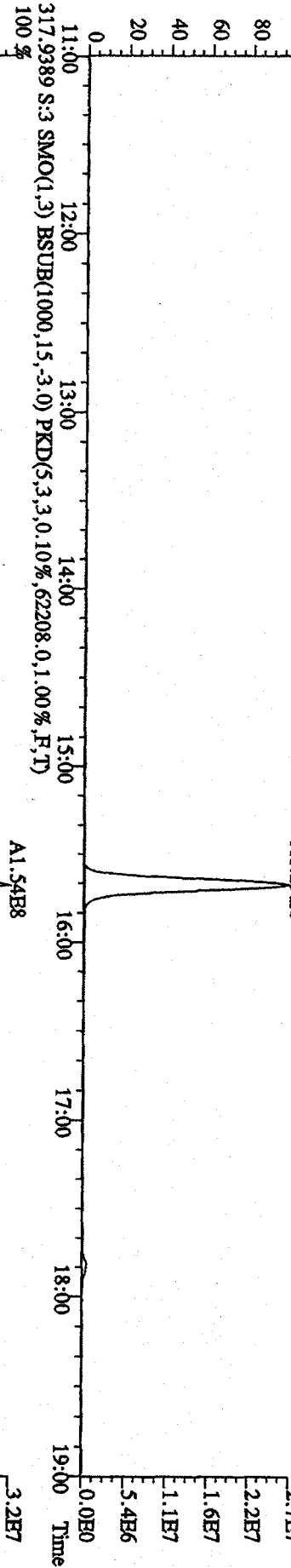
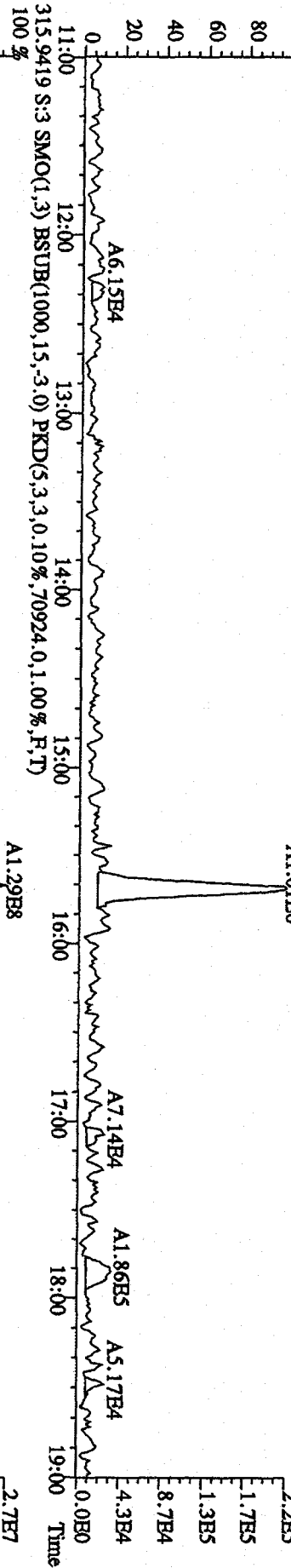
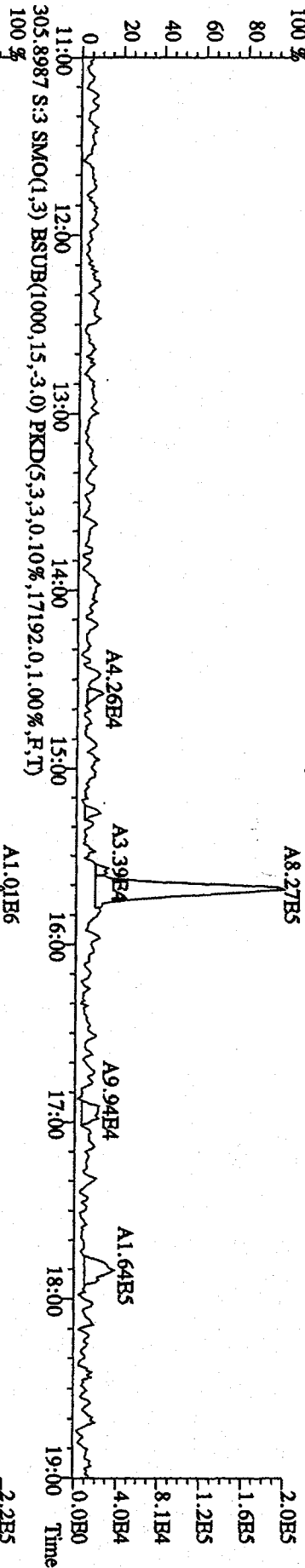
File: 21OC095D2 #1-1242 Acq: 21-OCT-2009 22:03:00 GC: EI+ Voltage: SIR 70SE
Sample#2 Text: CP1021 :DB-225 CPISM 3732-01 Exp: DB225
303.9016 S:2 BSTUB(128,15,-3.0)



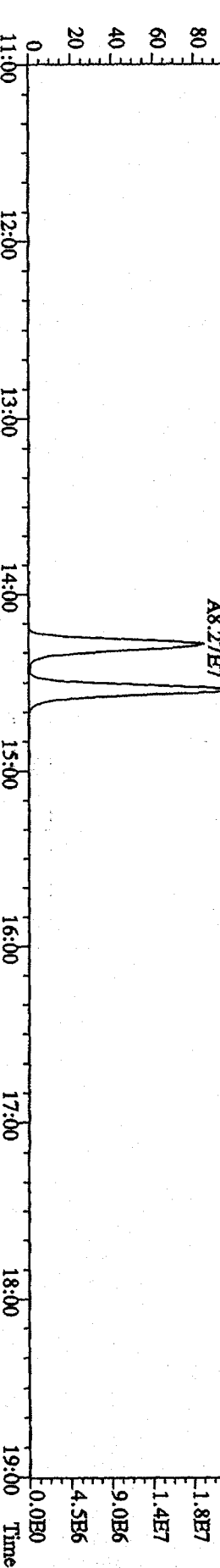
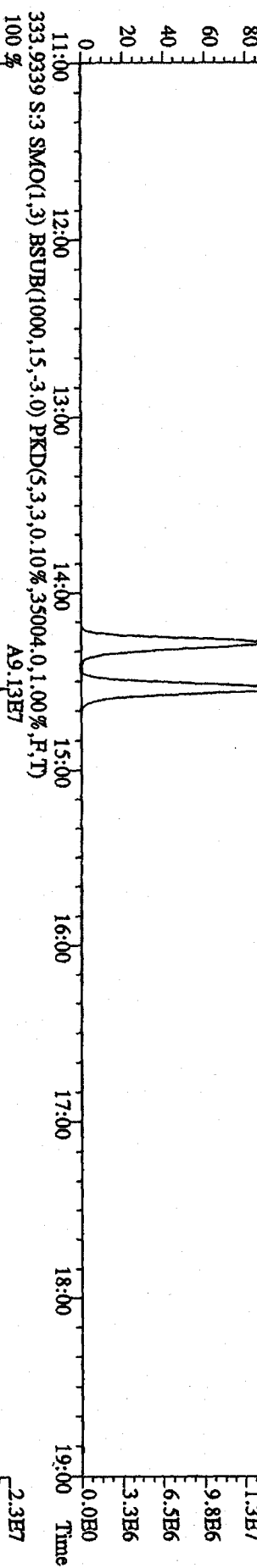
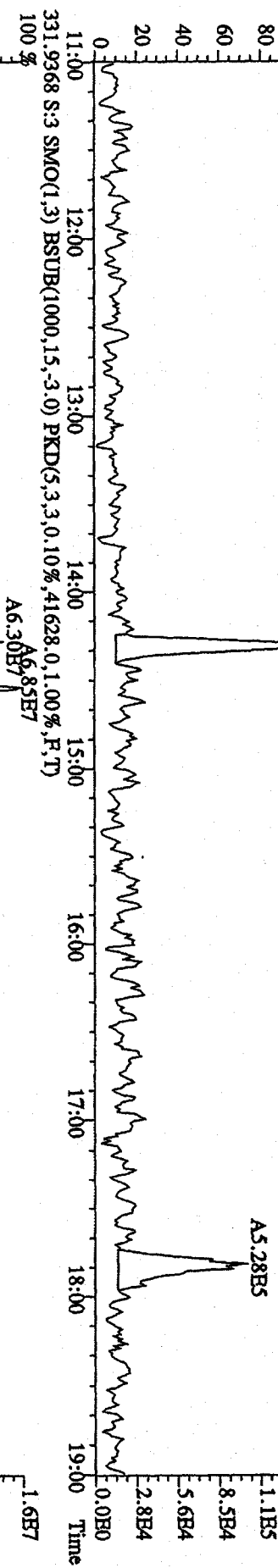
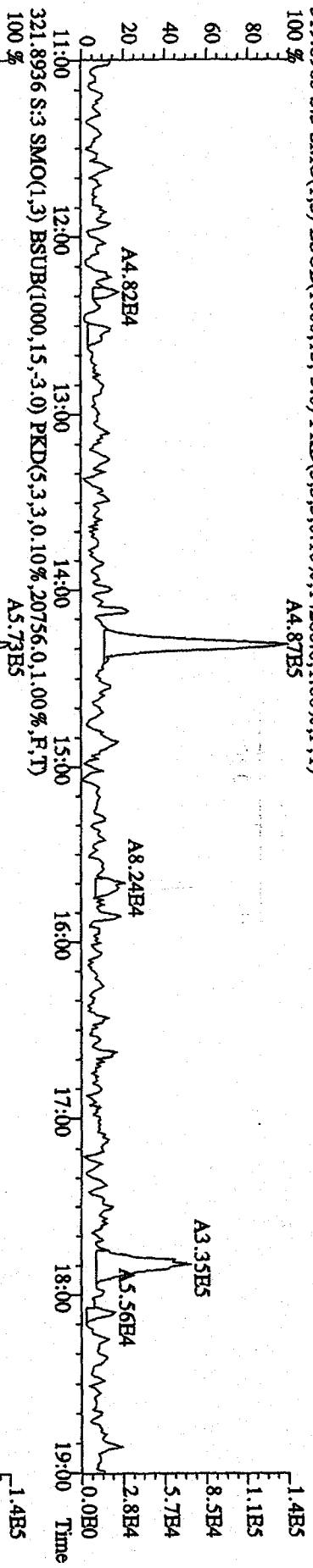
Run text: ST1021F Sample text: ST1021F :2nd Source 09DXN300
 Run #15 Filename: 21OC095D2 S: 8 I: 1 Results: 21OC095D2DB225
 Acquired: 22-OCT-09 01:45:11 Processed: 22-OCT-09 12:39:59
 Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	136613028	0.82 y	14:31	-	89.83	-	-	n
13C-2,3,7,8-TCDF	277440664	0.86 y	15:39	1.98	2056.05	12.22	102.8	n
2,3,7,8-TCDF	30151783	0.72 y	15:40	1.18	184.23	3.03	-	n
13C-2,3,7,8-TCDD	128036352	0.75 y	14:16	0.97	1930.61	14.32	96.5	n
2,3,7,8-TCDD	18883674	0.87 y	14:17	1.51	195.85	5.01	-	n
37Cl-2,3,7,8-TCDD	35891704	1.00 y	14:17	2.70	194.28	4.88	97.1	n

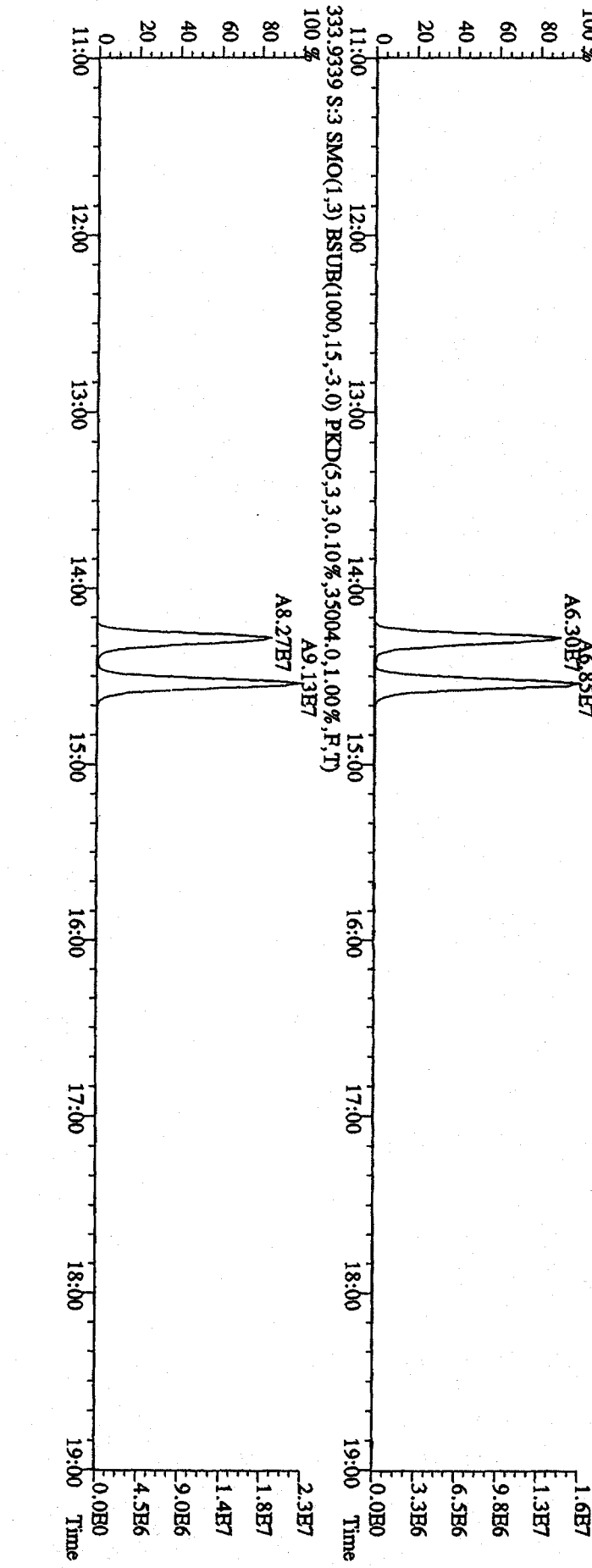
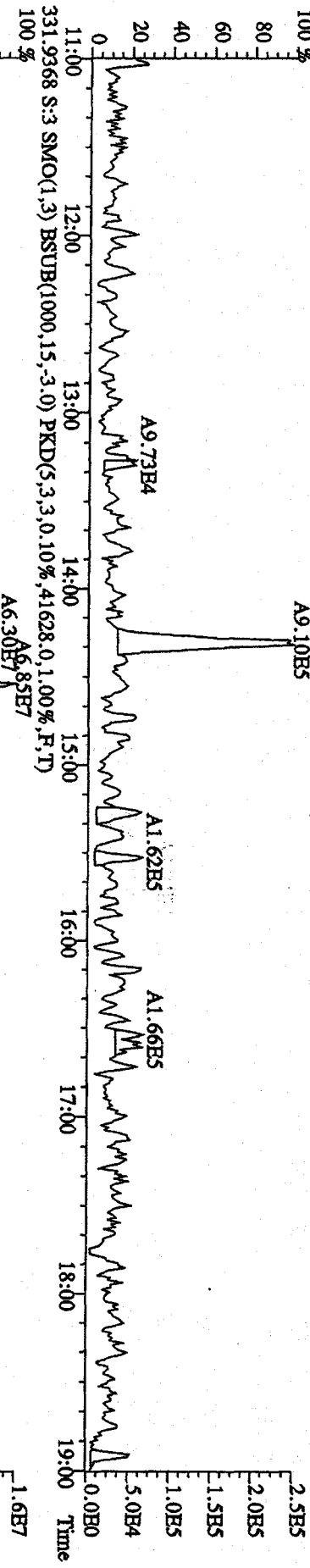
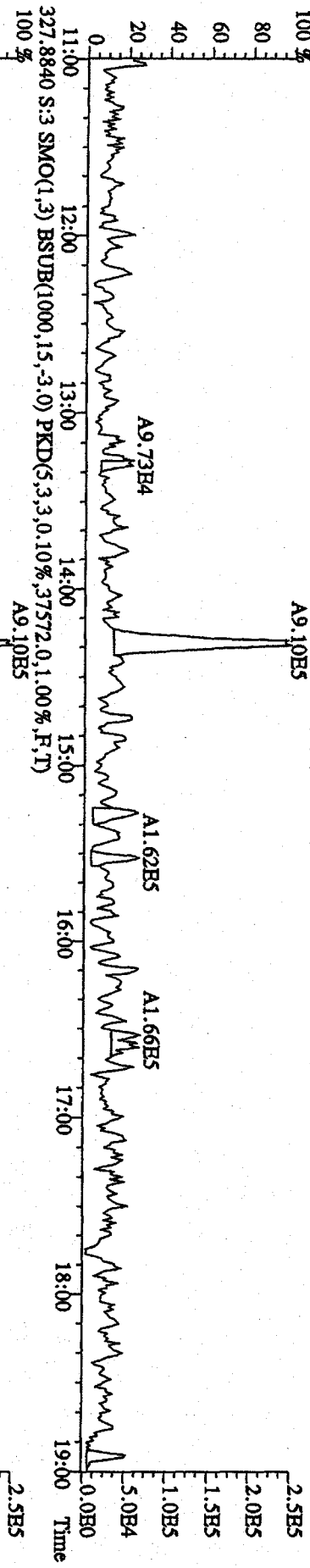
File:21OCT09SD2 #1-1242 Acq:21-OCT-2009 22:40:02 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1021A :CSI 09DXN236 Exp:DB225
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13496.0,1.00%,F,T)



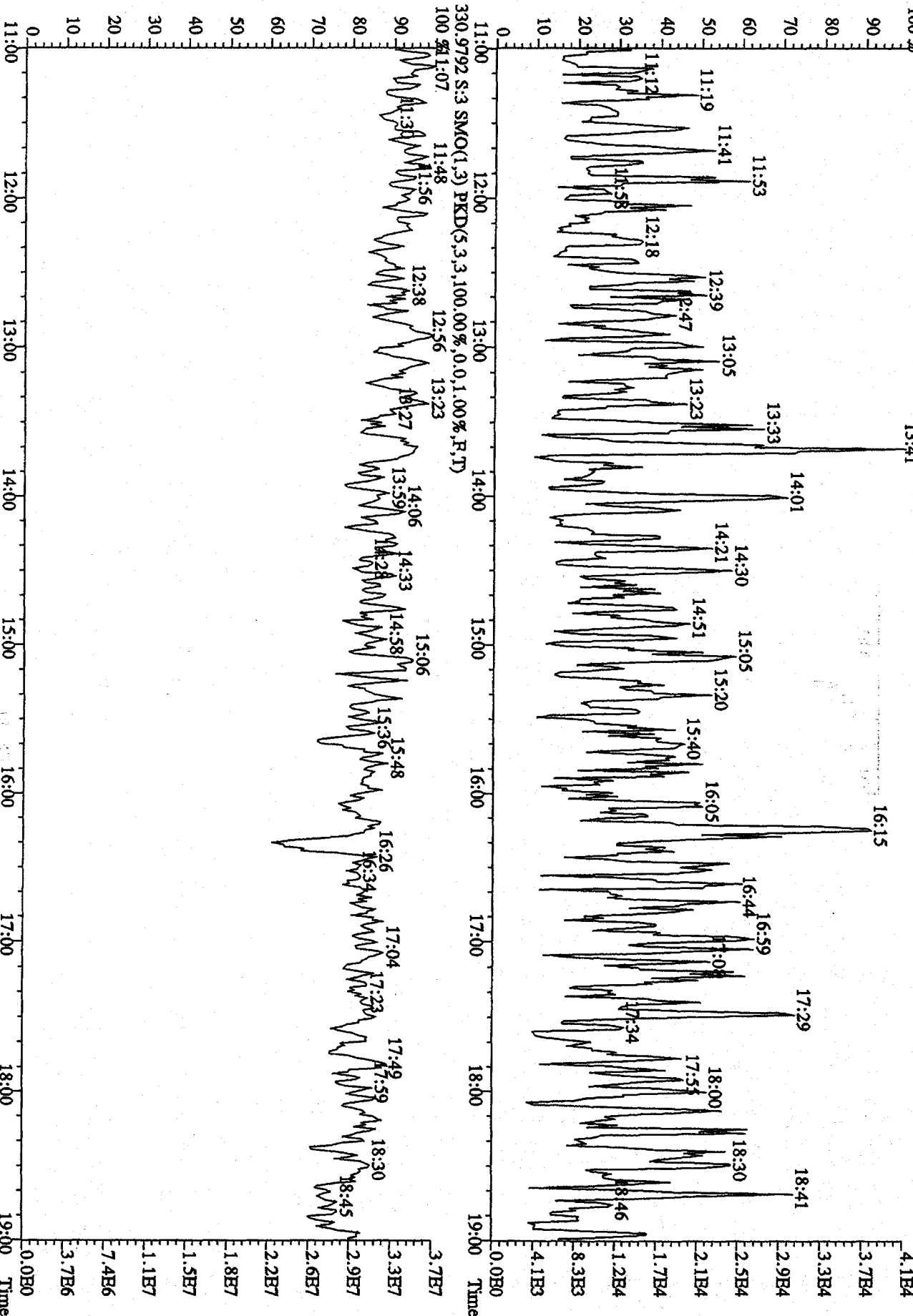
File:21OC095D2 #1-1242 Acq:21-OCT-2009 22:40:02 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1021A :CSI 09DXN236 Exp:DB225
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,14280,0,1,00%,F,T)
 A4.87E5



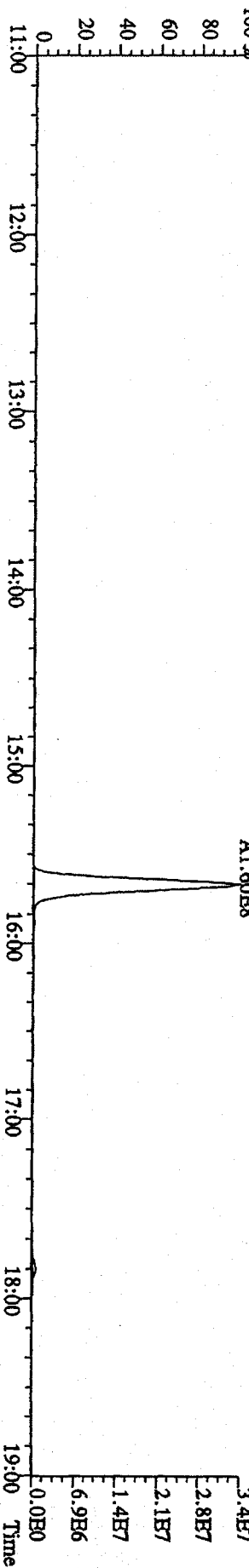
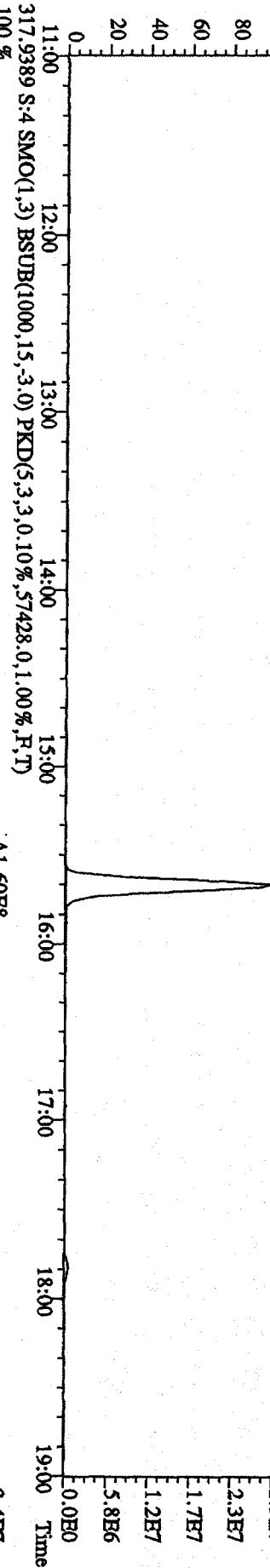
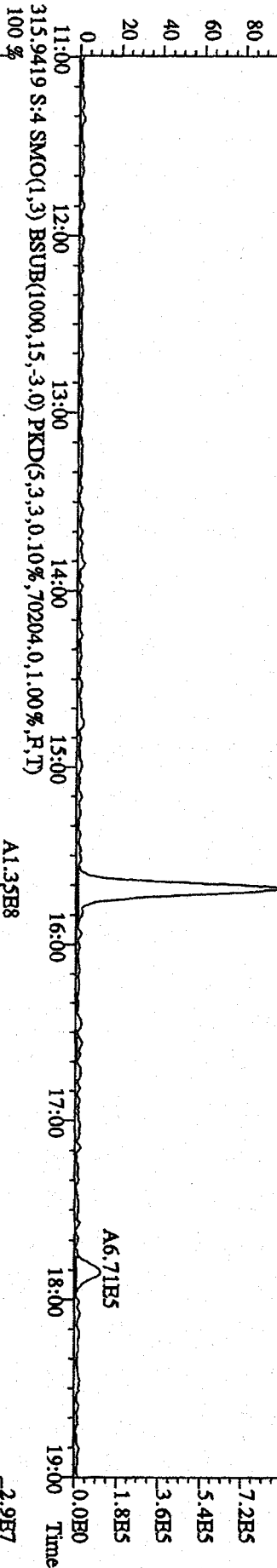
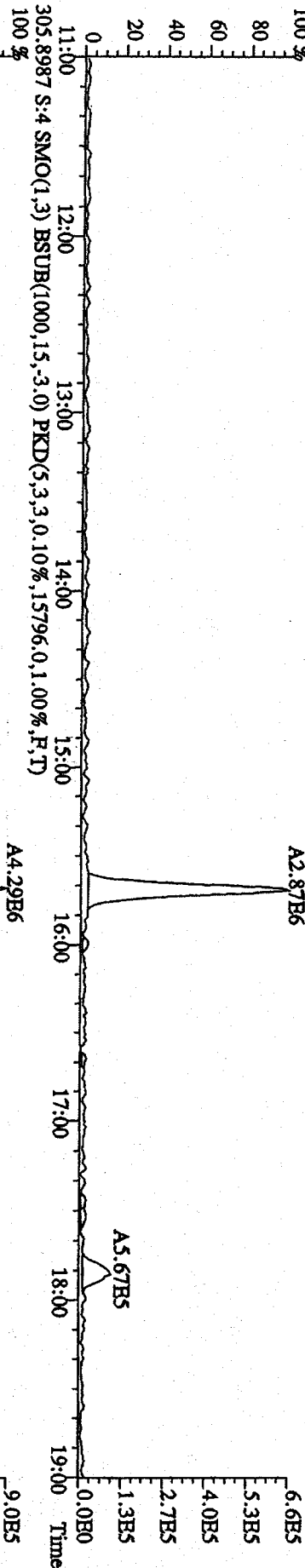
File: 21OCT09SD2 #1-1242 Acq: 21-OCT-2009 22:40:02 GC HI + Voltage SIR 70SE
 Sample#3 Text: ST1021A :CSI 09DXN236 Exp: DB225
 327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37572.0,1.00%,F,T)
 100 %



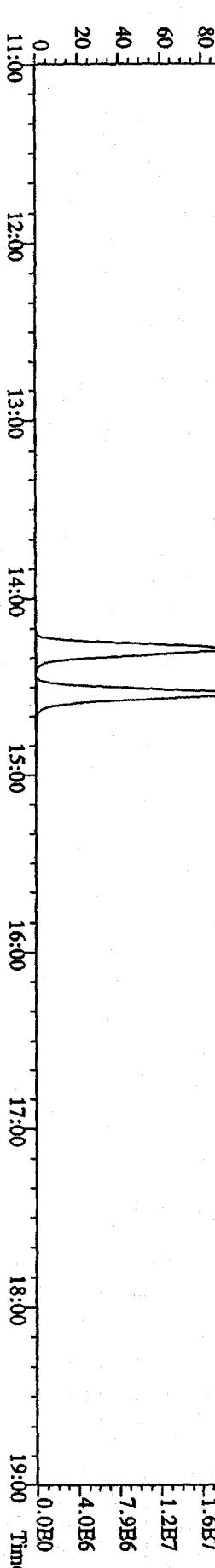
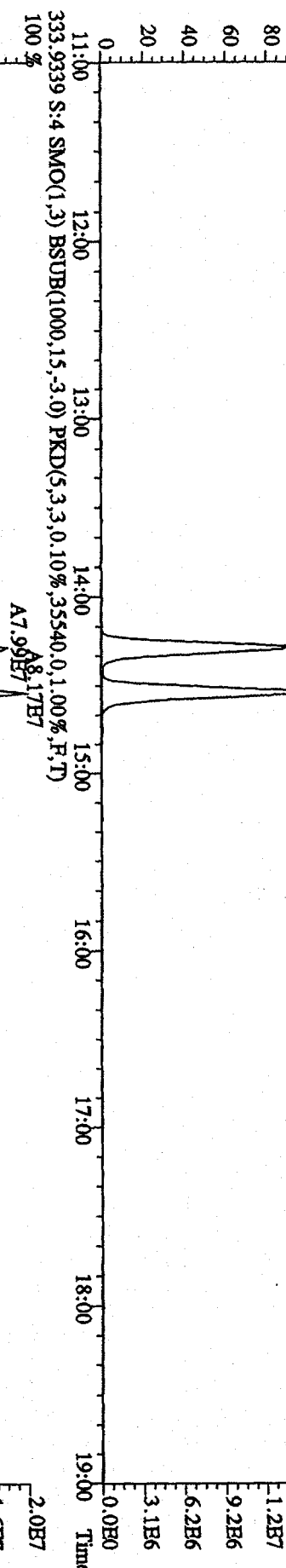
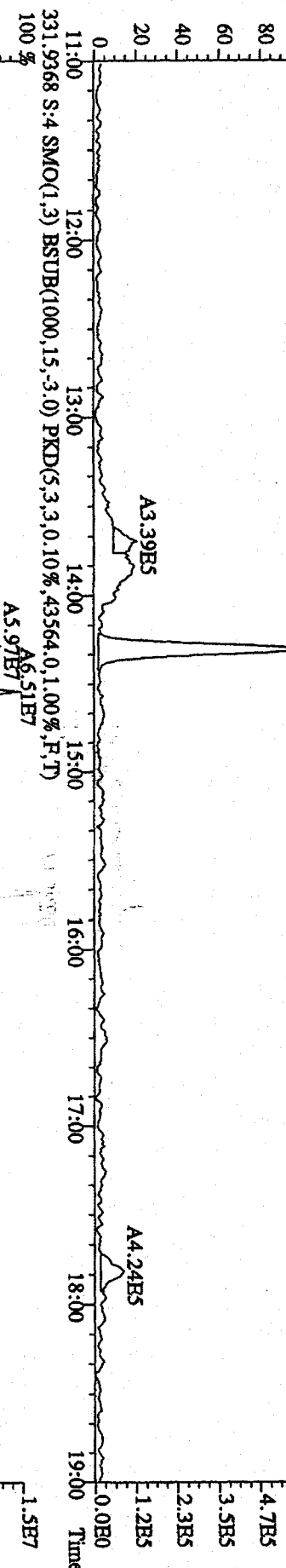
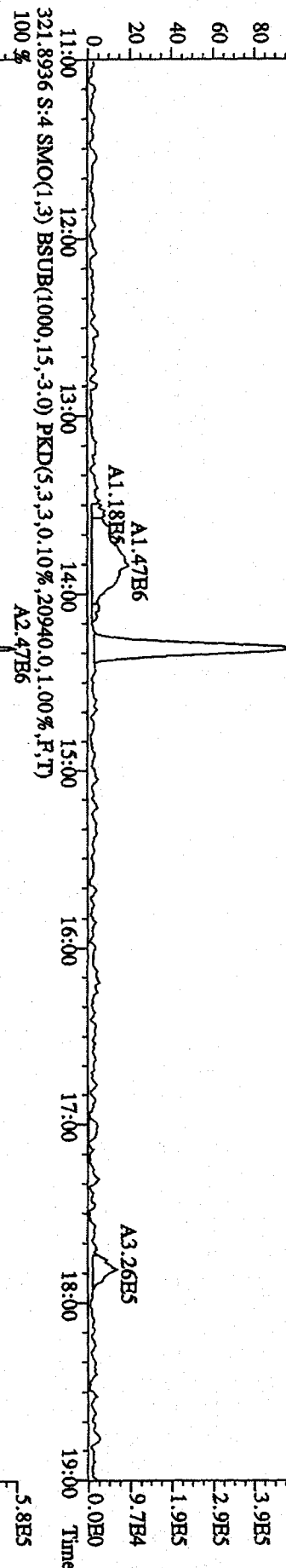
File: 21OC095D2 #1-1242 Acq: 21-OCT-2009 22:40:02 GC HI + Voltage SIR 70SE
 Sample#3 Text: ST1021A :CSI 09DXN236 Exp: DB225
 375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1.00%,F,T)
 100% 13:41



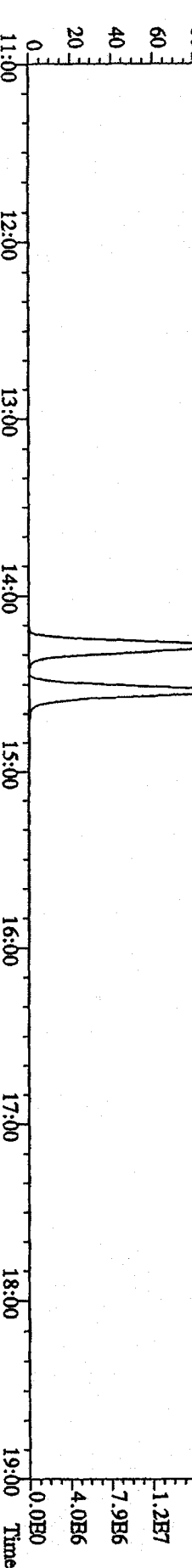
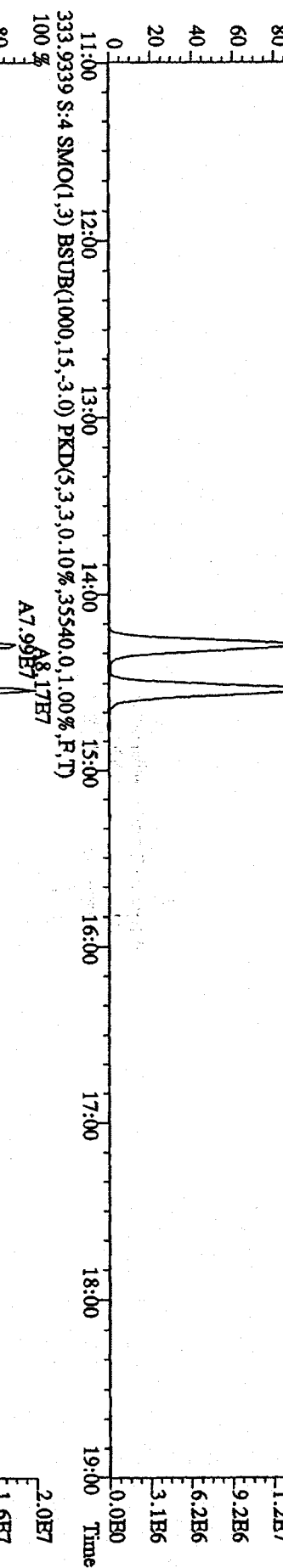
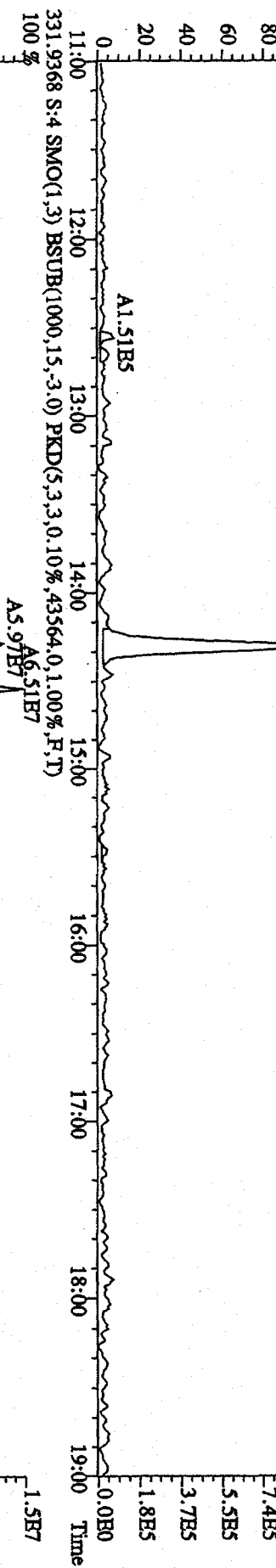
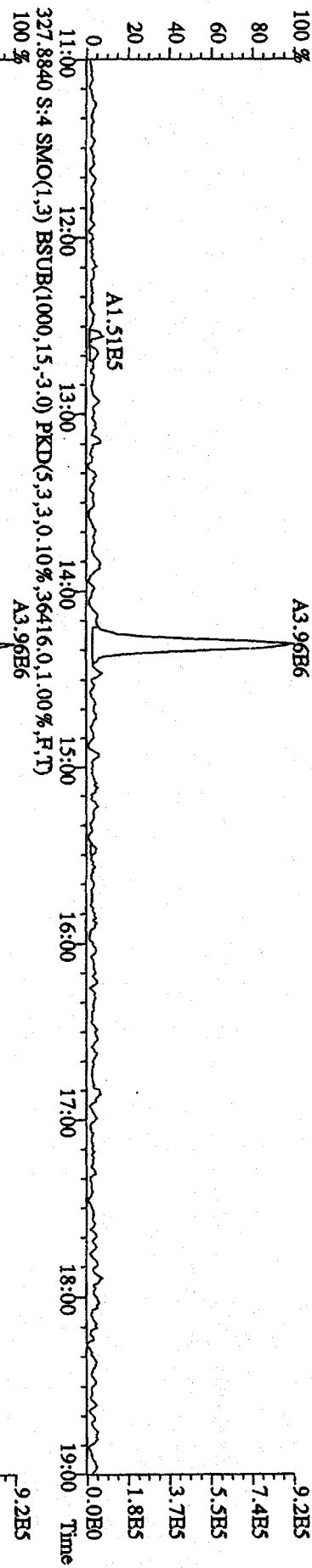
File:21OC095D2 #1-1242 Acq:21-OCT-2009 23:17:05 GC HI+ Voltage SIR 70SE
 Sample#4 Text:ST1021B :CSS 09DXN237 Exp:DB225
 303.9016 S:4 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,14108.0,1.00%,F,T)



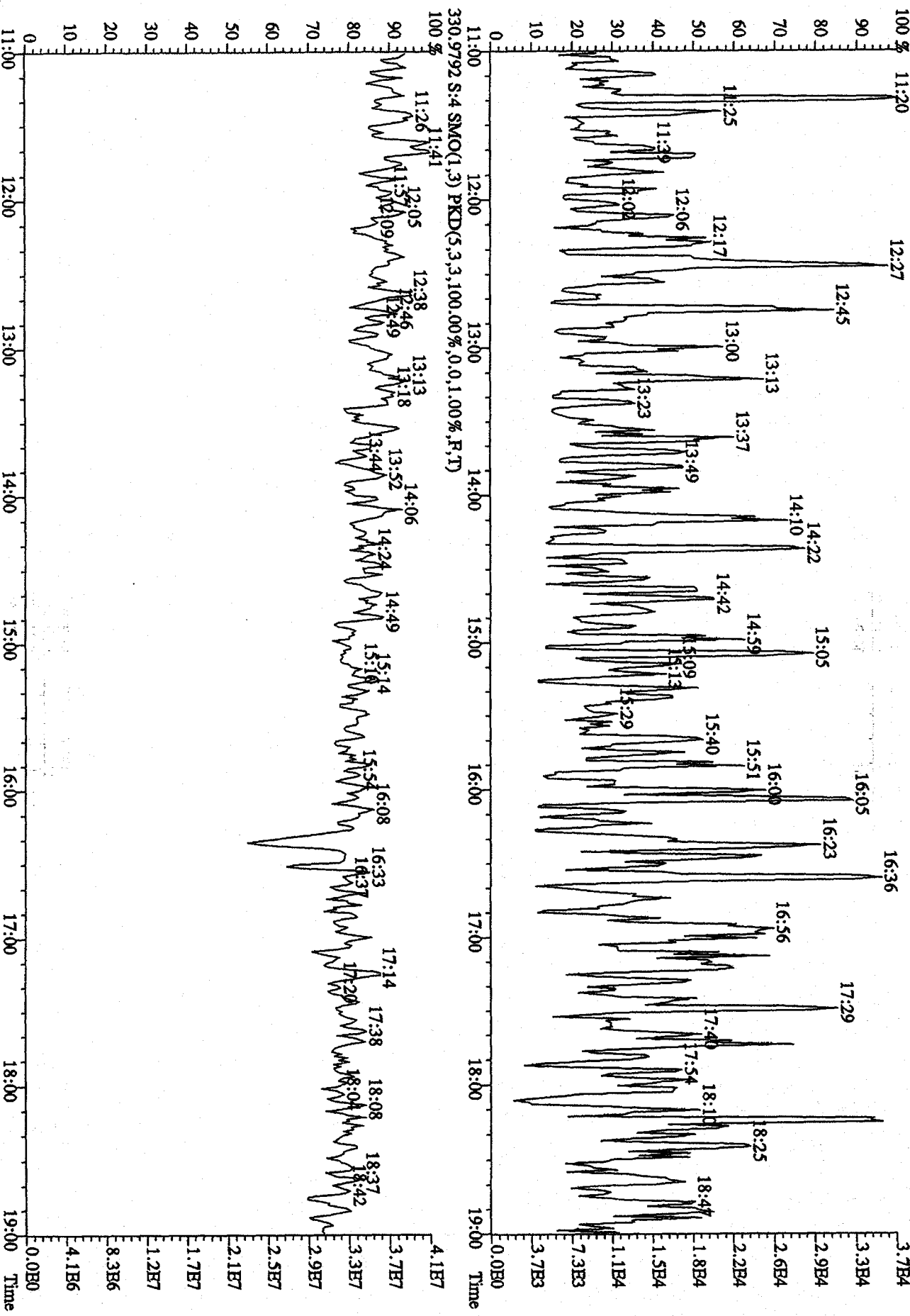
File:210C095D2 #1-1242 Acq:21-OCT-2009 23:17:05 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1021B :CS2 09DXNZ37 Exp:DH225
 319.8965 S:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.00%,F,T) A2.05E6



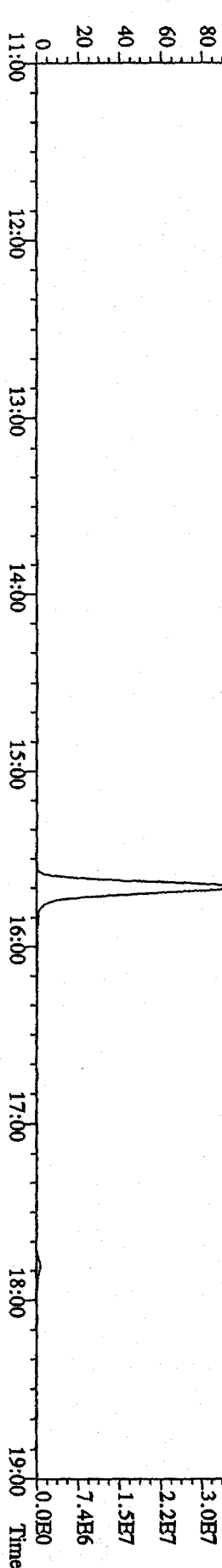
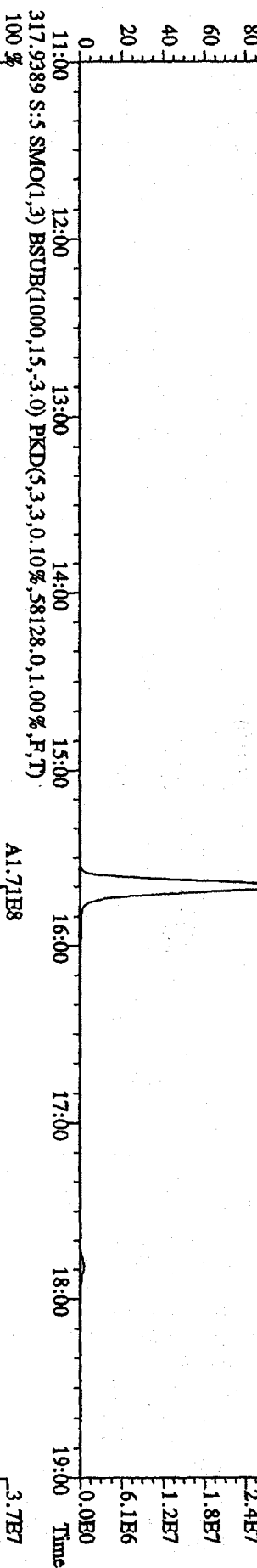
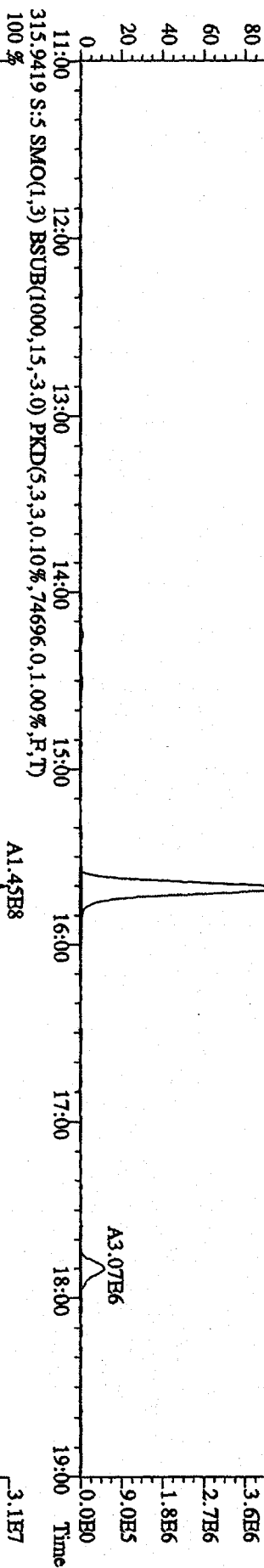
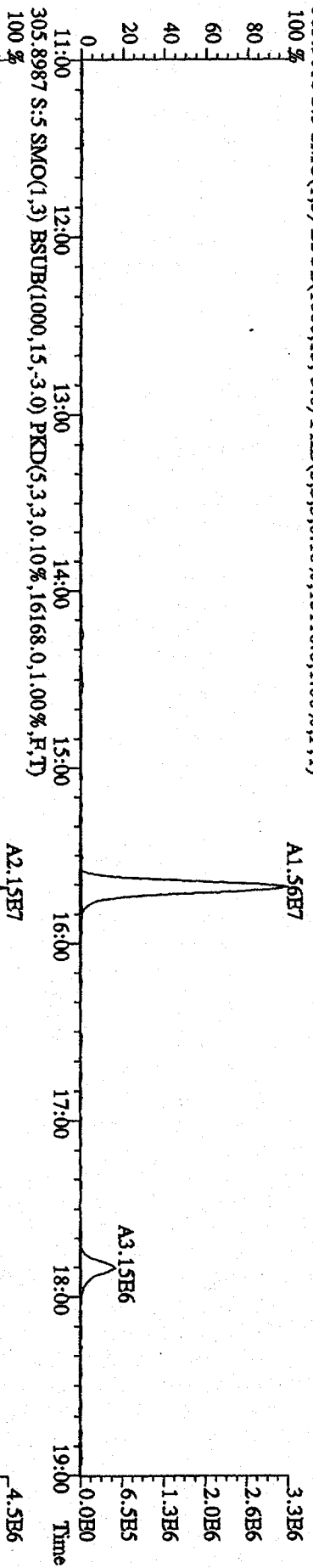
File:21OC095D2 #1-1242 Acq:21-OCT-2009 23:17:05 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1021B :CS2 09DXN237 Exp:DB225
 327.8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,36416,0,1,00%,F,T) A3.96B6
 100 %



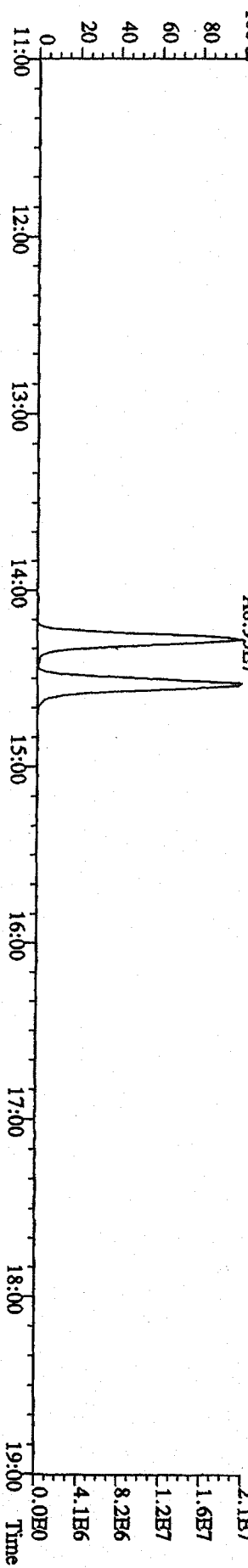
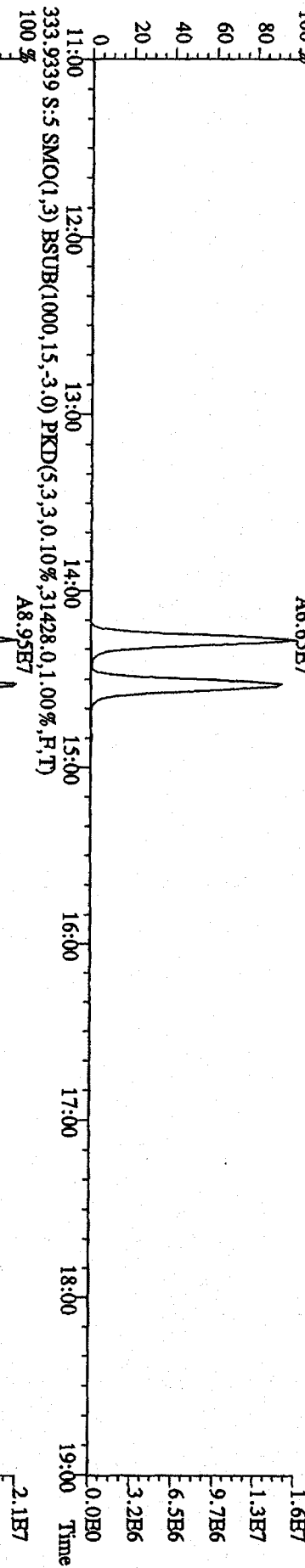
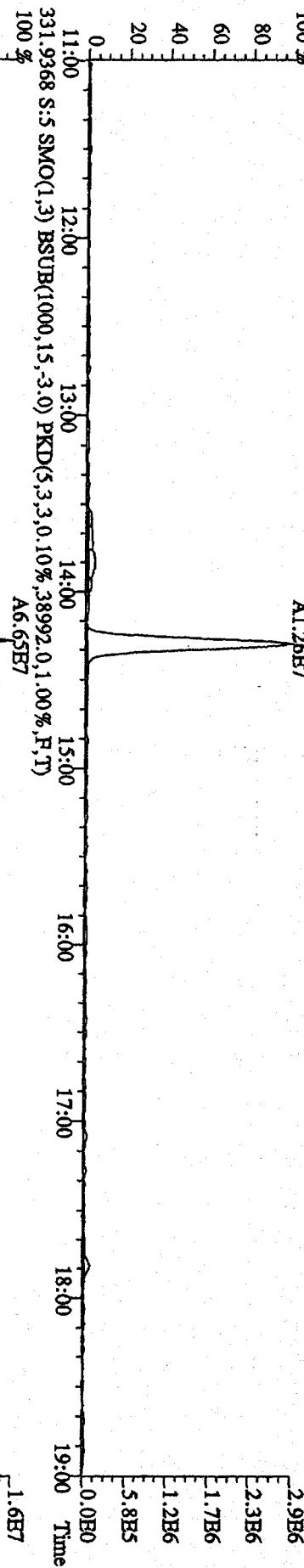
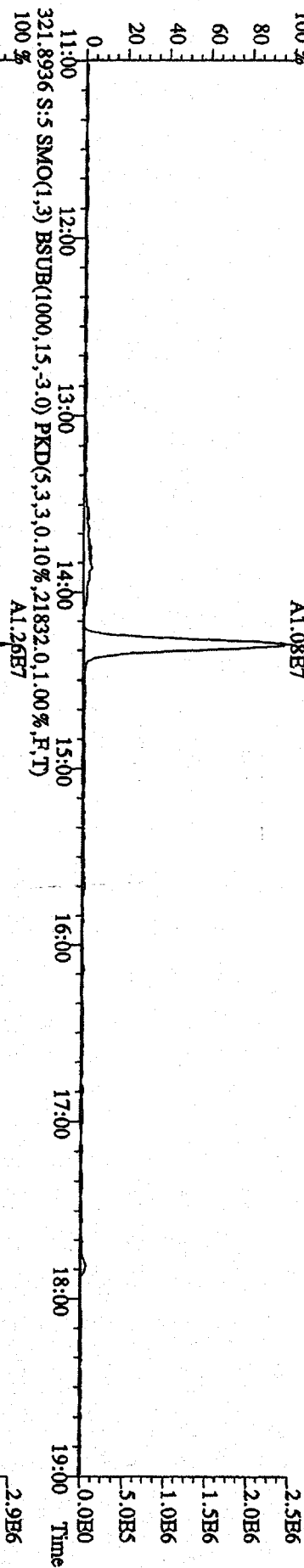
File:21OC09SD2 #1-1242 Acq:21-OCT-2009 23:17:05 GC HI+ Voltage SIR 70SE
 Sample#4 Tex:ST1021B :CS2 09DXN237 Exp:DB225
 375.8364 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1.5536,0.1,0.00%,F,T)
 100% 11:20 12:27



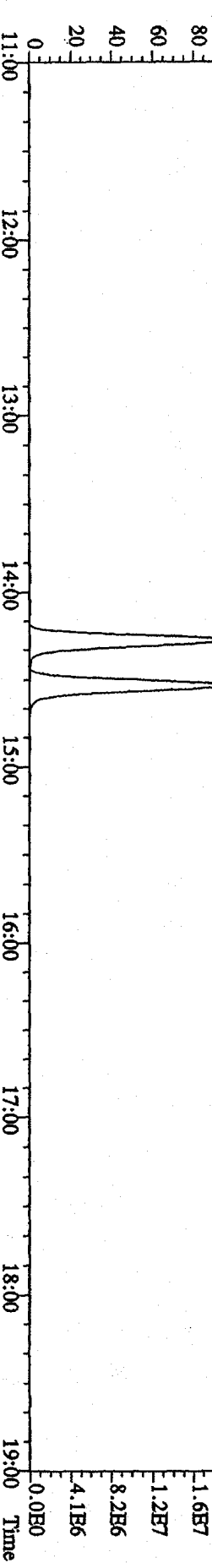
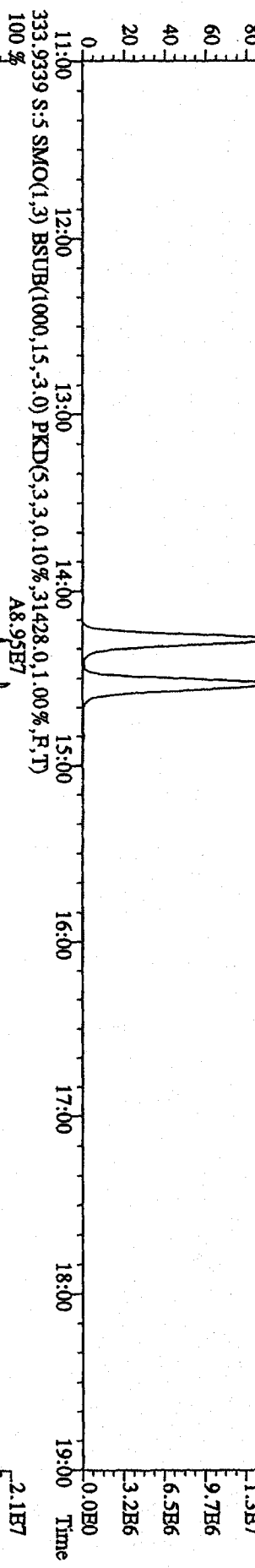
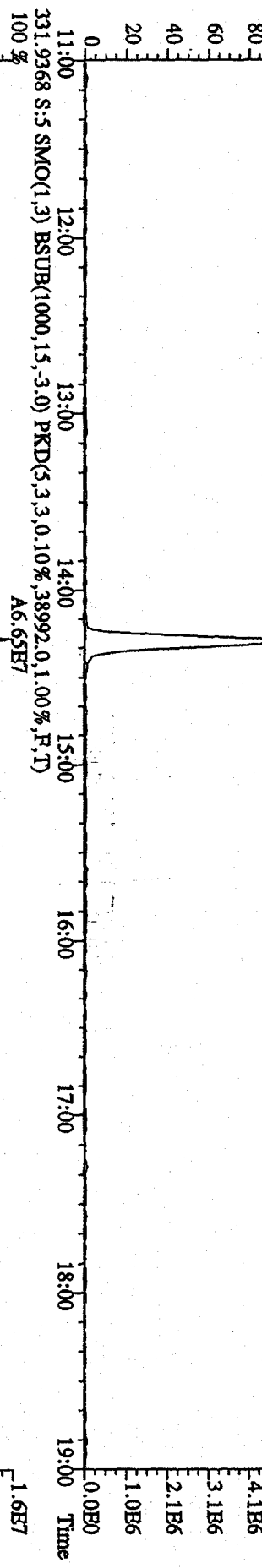
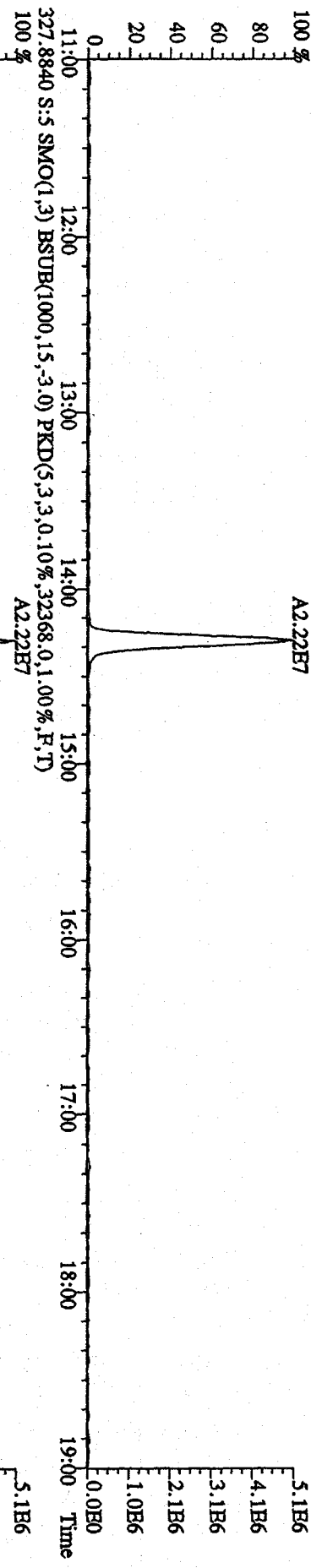
File: 21OC095D2 #1-1242 Acq: 21-OCT-2009 23:54:06 GC EI+ Voltage SIR 70SE
 Sample#5 Text: ST1021C :CSS 09DXN123 Exp: DB225
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15116,0,1,00%,F,T) 100%



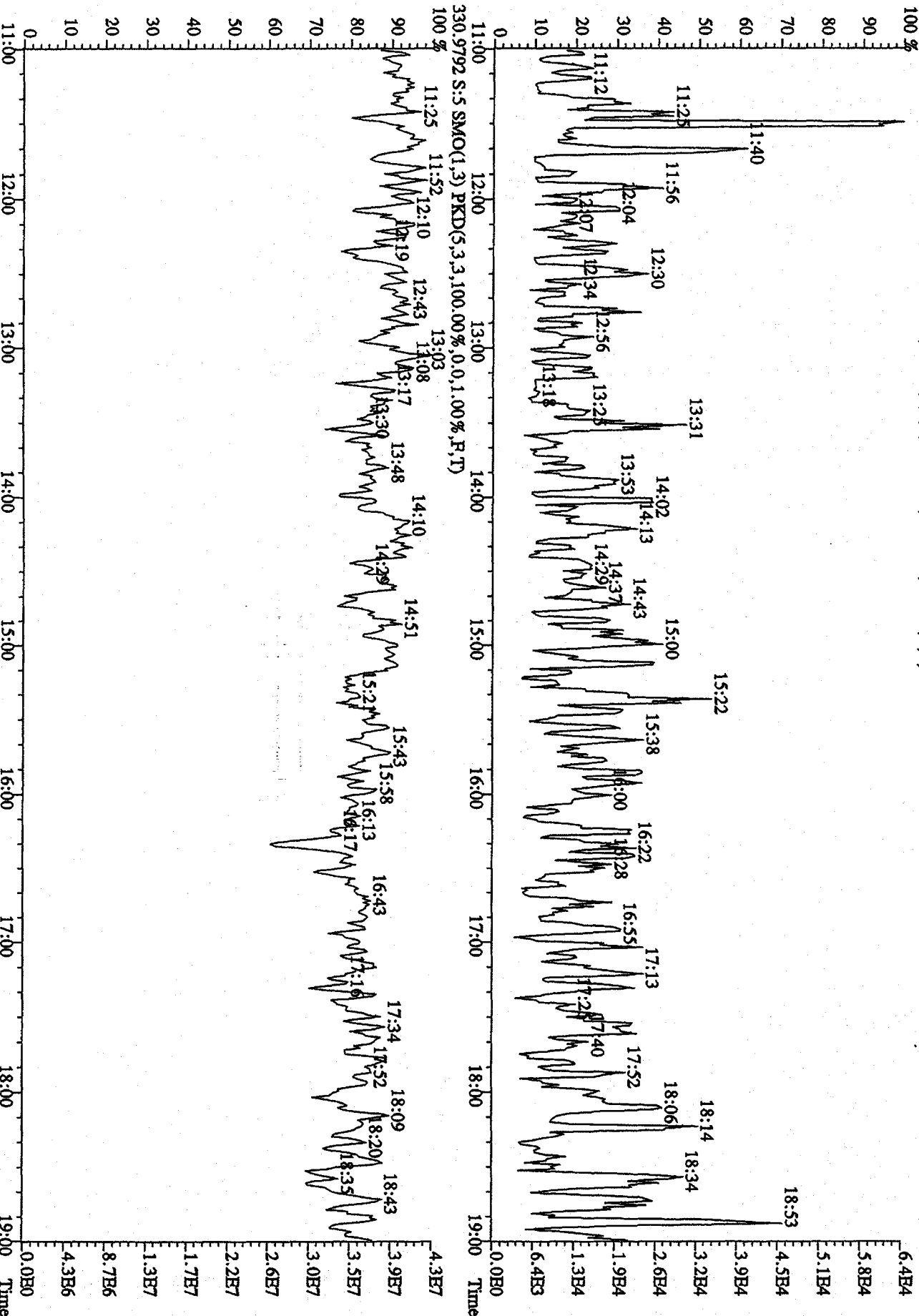
File:21OC095D2 #1-1242 Acq:21-OCT-2009 23:54:06 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST1021C :CS3 09DXN123 Exp:DB225
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1.7084,0.1,0.0%,F,T)
 100% A1.08E7



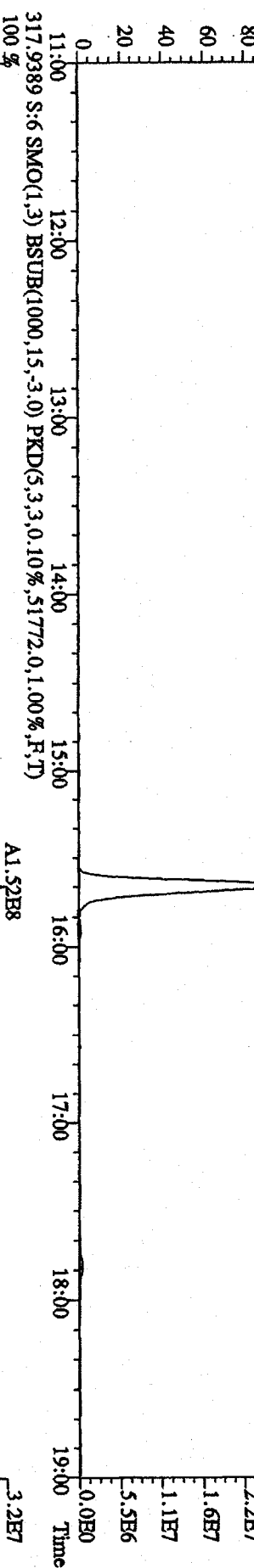
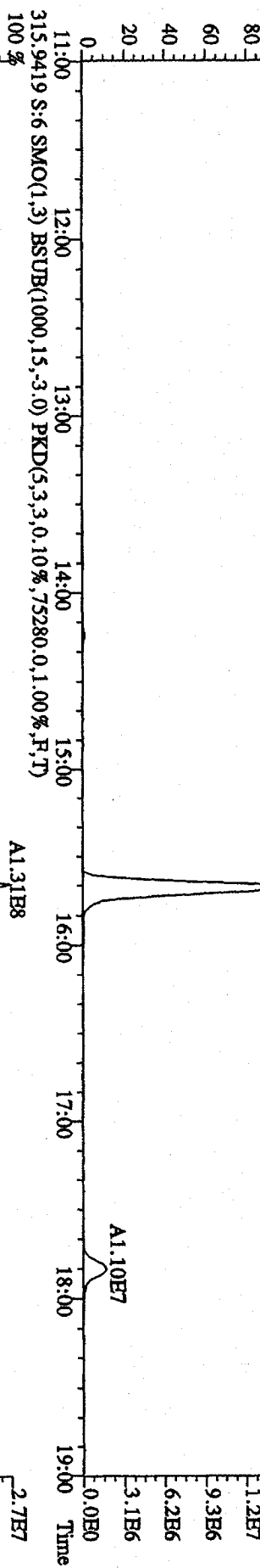
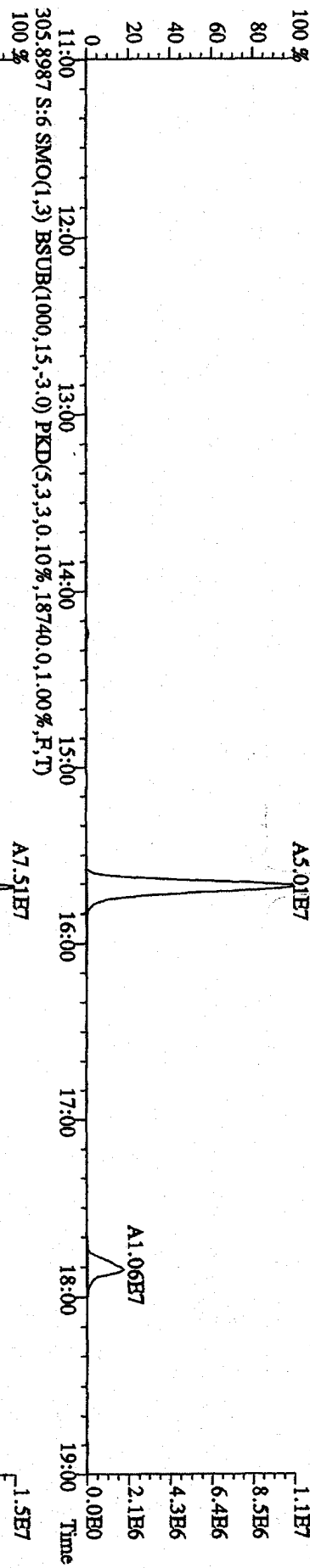
File: 21OC095D2 #1-1242 Acq: 21-OCT-2009 23:54:06 GC EI+ Voltage SIR 70SB
Sample#5 Text: ST1021C : CSS 09DXN123 Exp: DB225
327.8840 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,32368,0,1.00%,F,T)
100% A2.22E7



File: 21OC095D2 #1-1242 Acq: 21-OCT-2009 23:54:06 GC HI + Voltage SIR 70SE
 Sample#5 Text: ST1021C :CSS 09DXN123 Exp: DB225
 375.8364 S.S SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1.5636,0.1,0.00%,F,T)



File:21OC095D2 #1-1242 Acq:22-OCT-2009 00:31:07 GC HI+ Voltage SIR 70SE
 Sample#6 Text:ST1021D :CS4 09DXN311 Exp:DB225
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,14924,0.1,00%,F,T)
 100%



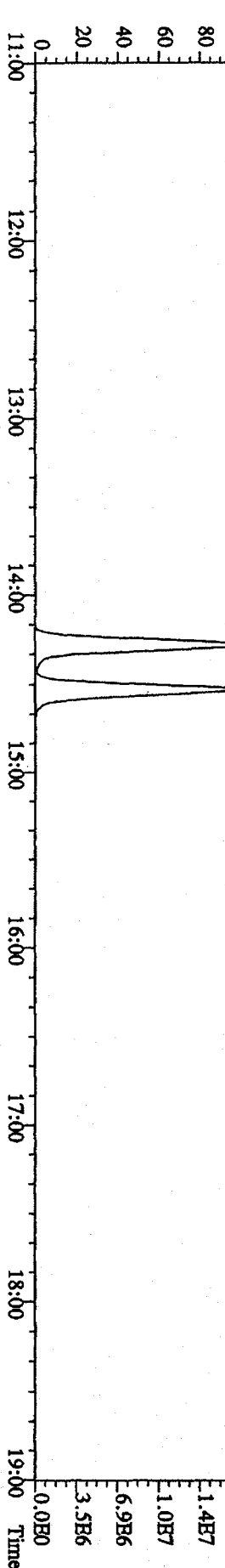
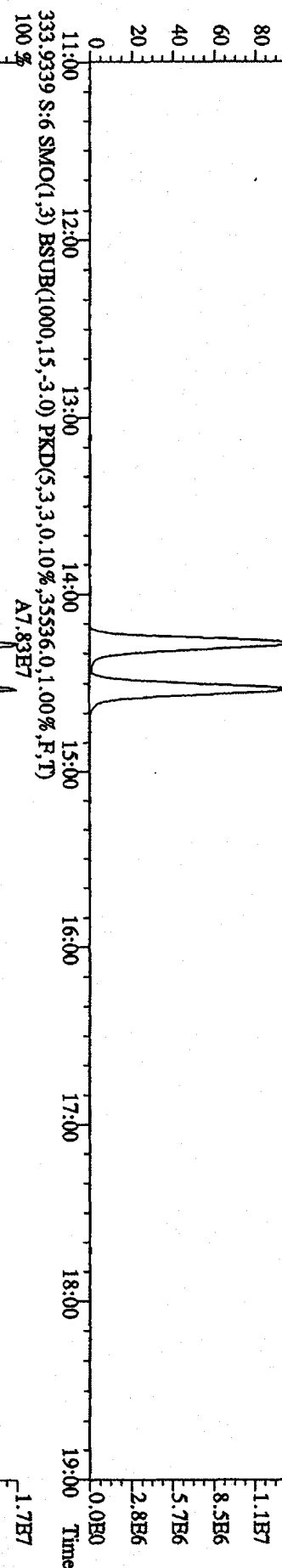
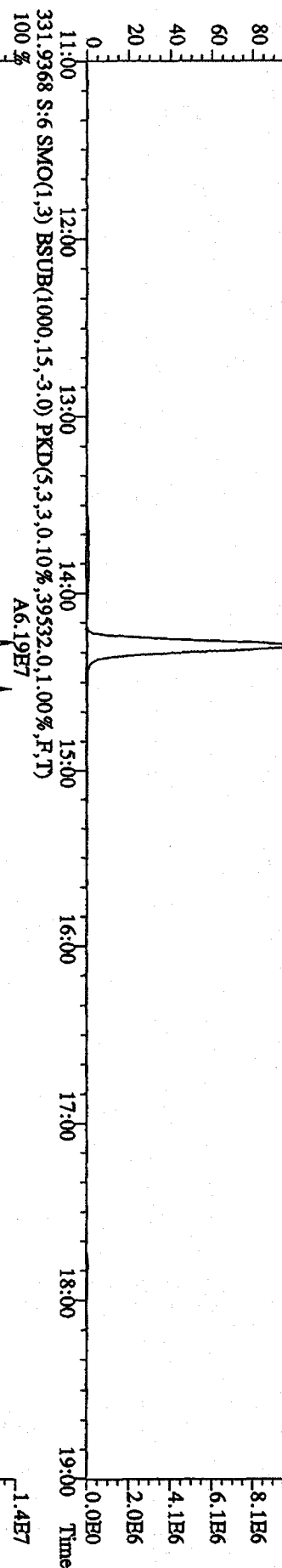
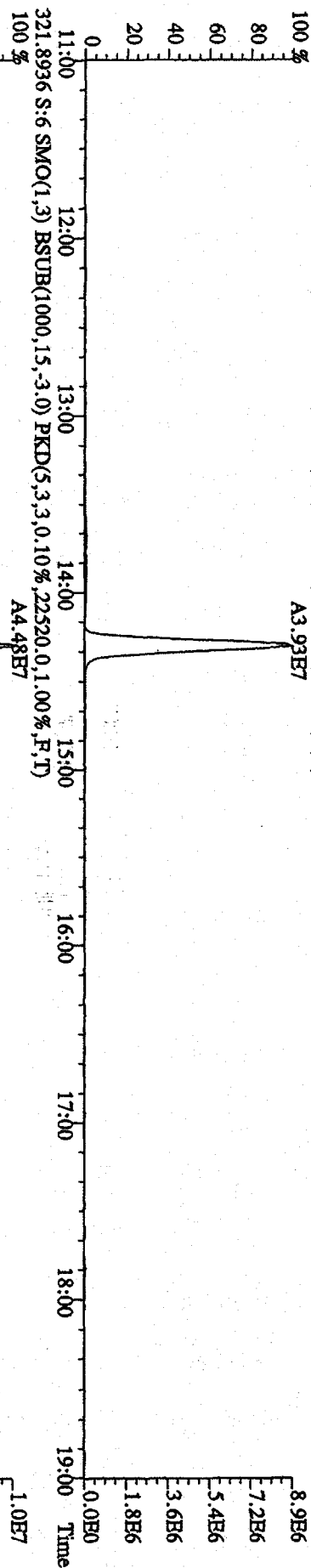
File:210C095D2 #1-1242 Acq:22-OCT-2009 00:31:07 GC EI+ Voltage SIR 70SB

Sample#6 Text:ST1021D :CS4 09DXN311

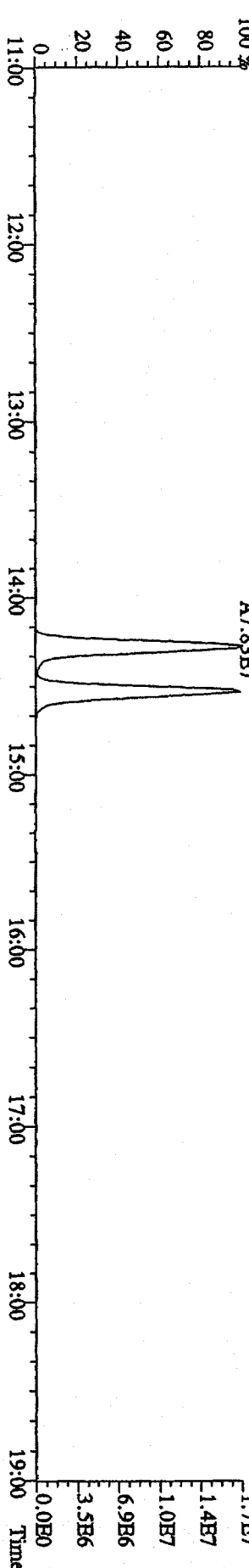
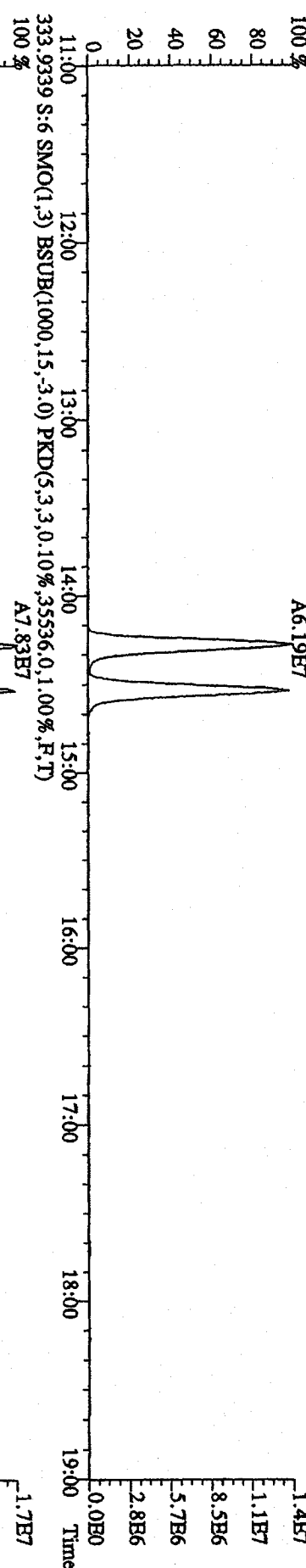
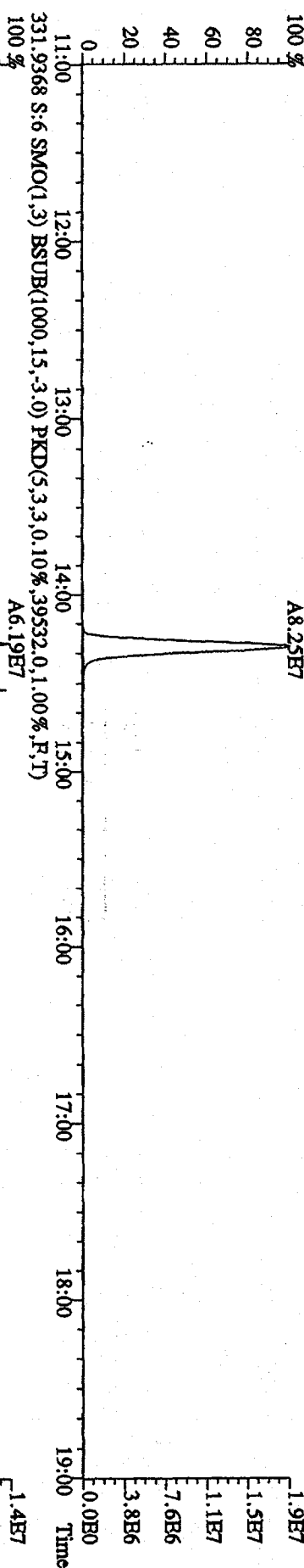
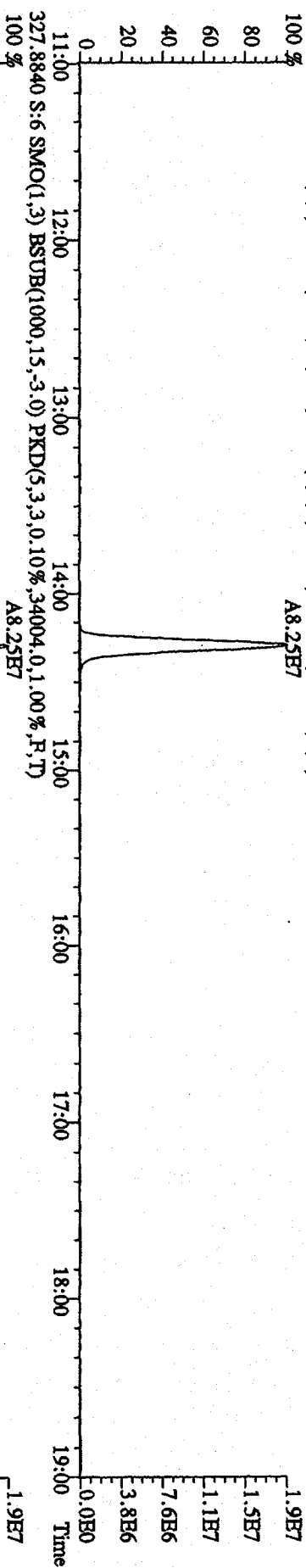
Exp:DB225

319.8965 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,16852,0,1,00%,F,T)

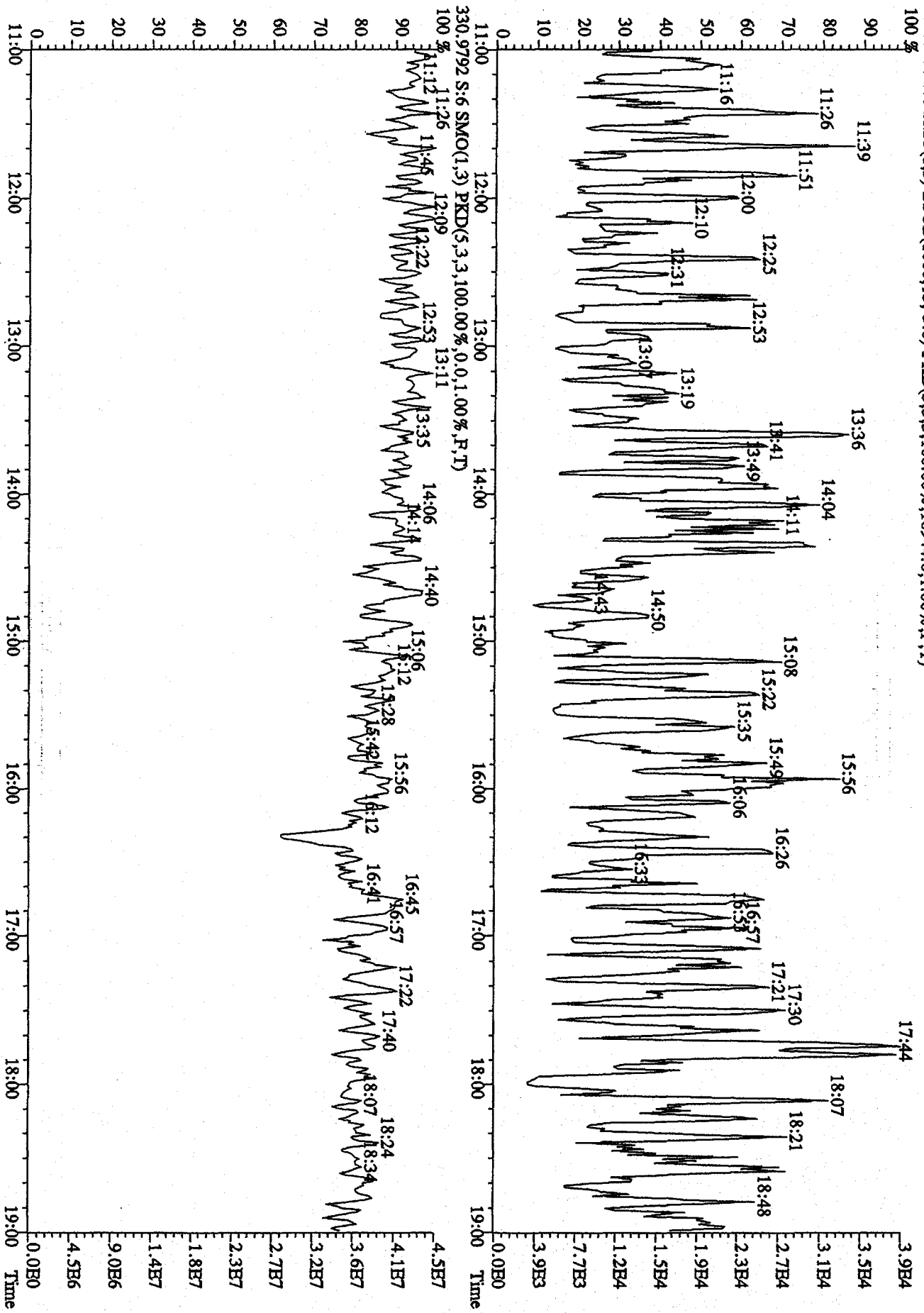
A3.93E7



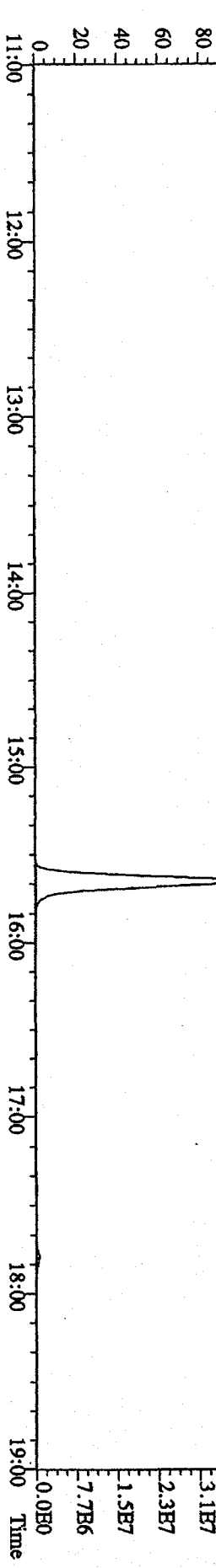
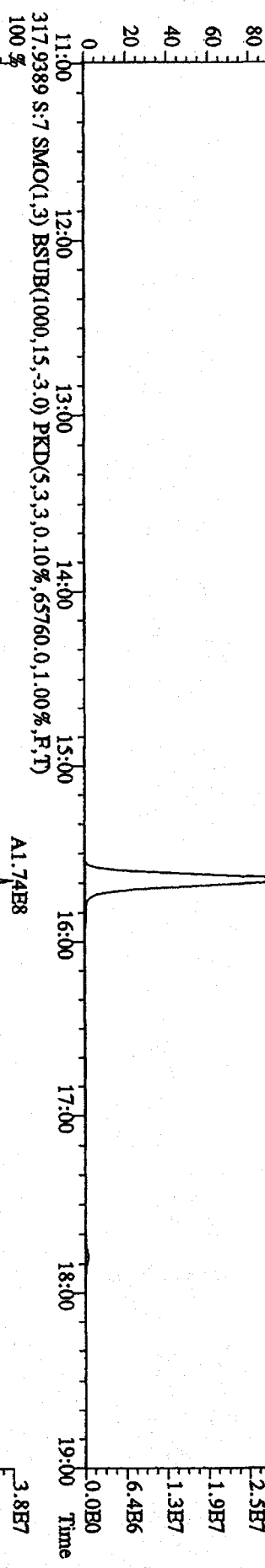
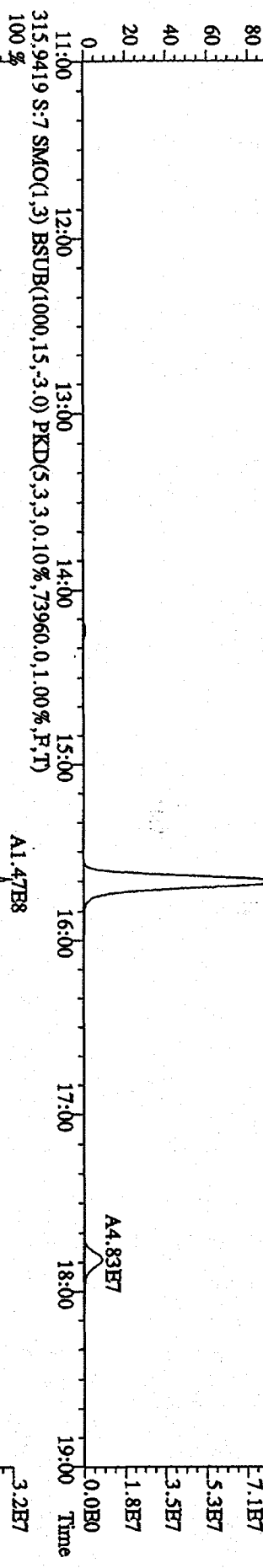
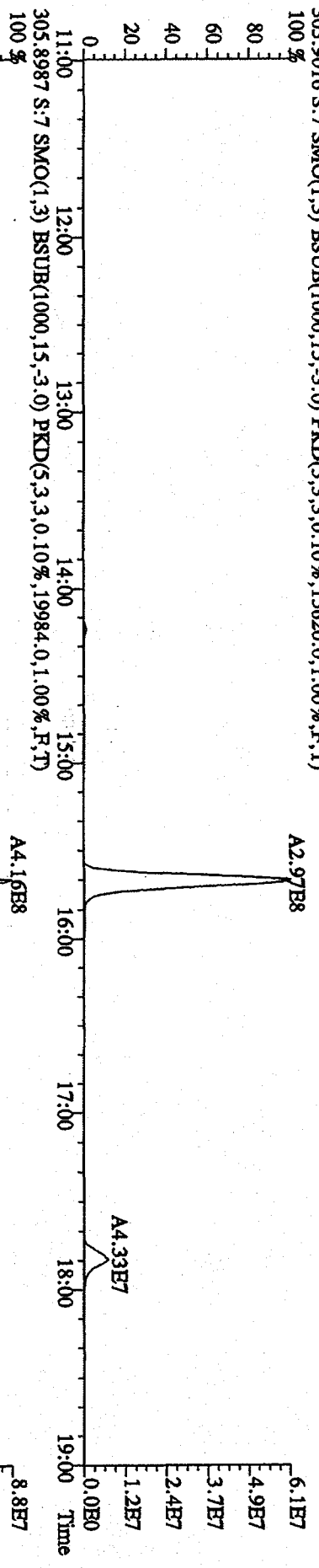
File:21OC095D2 #1-1242 Acq:22-OCT-2009 00:31:07 GC BI+ Voltage SIR 70SE
Sample#6 Text:ST1021D :CS4 09DXN311 Exp:DB225
327.8840 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,34004,0,1,00%,F,T)
100% A8.25E7



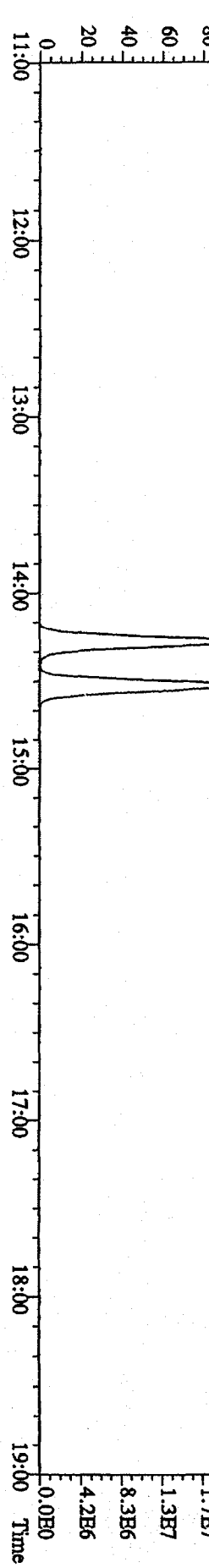
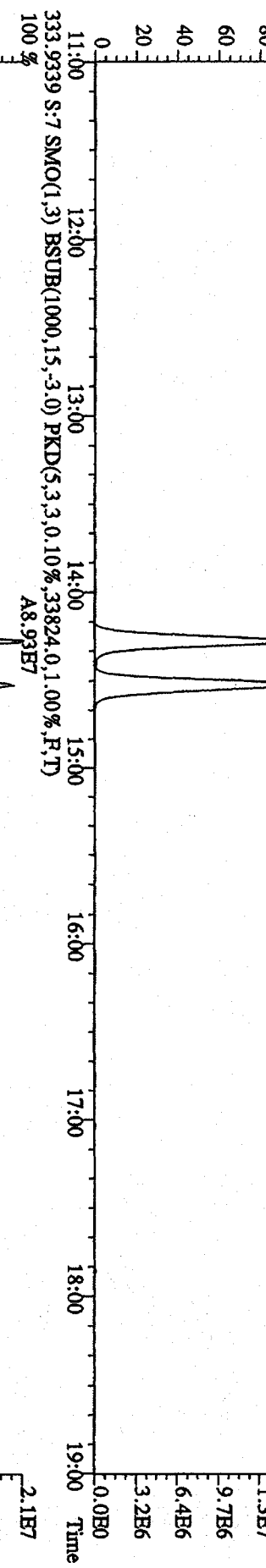
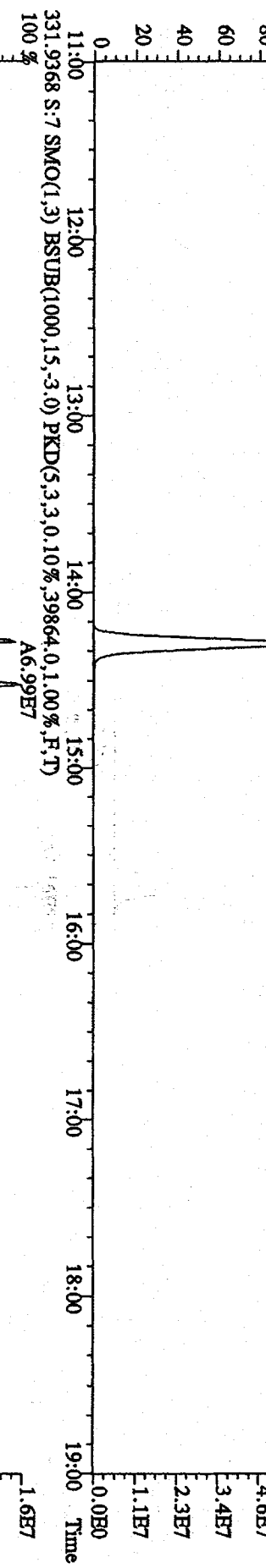
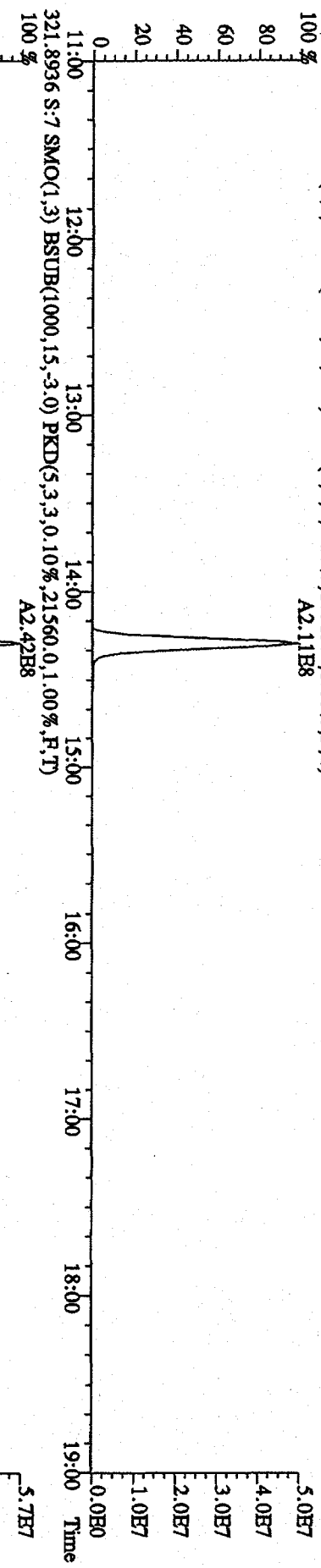
File: 210C09SD2 #1-1242 Acq: 22-OCT-2009 00:31:07 GC HI+ Voltage SIR 70SE
 Sample#6 Text: ST1021D :CS4 09DXN311 Exp: DB225
 375,8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,100.00%,16944.0,1.00%,F,T)



File:21OCC095D2 #1-1242 Acq:22-OCT-2009 01:08:10 GC BI+ Voltage SIR 70SE
 Sample#7 Text:ST1021E :CS5 09DXN240 Exp:DB225
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15620,0,1,00%,F,T) 100%



File:210C095D2 #1-1242 Acq:22-OCT-2009 01:08:10 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1021B :CS5 09DXN240 Exp:DB225
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,17312,0,1.00%,F,T) A2.11E8



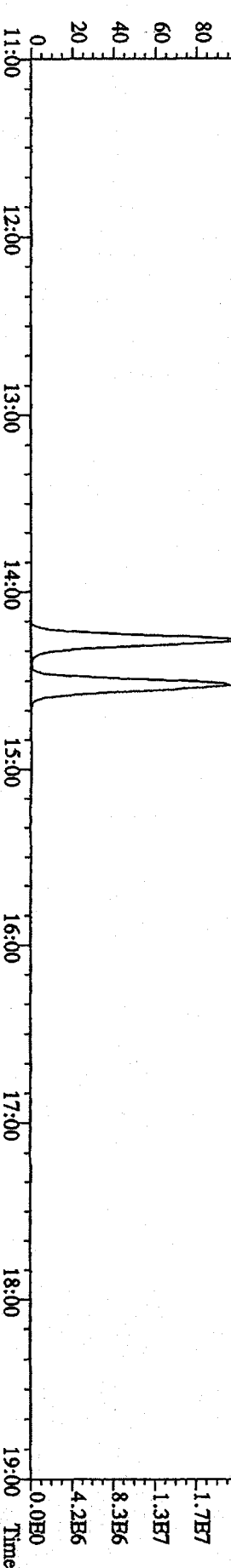
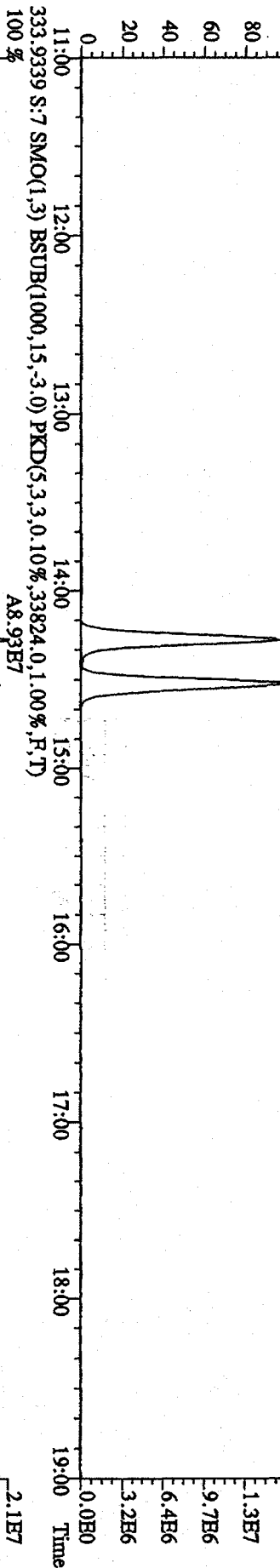
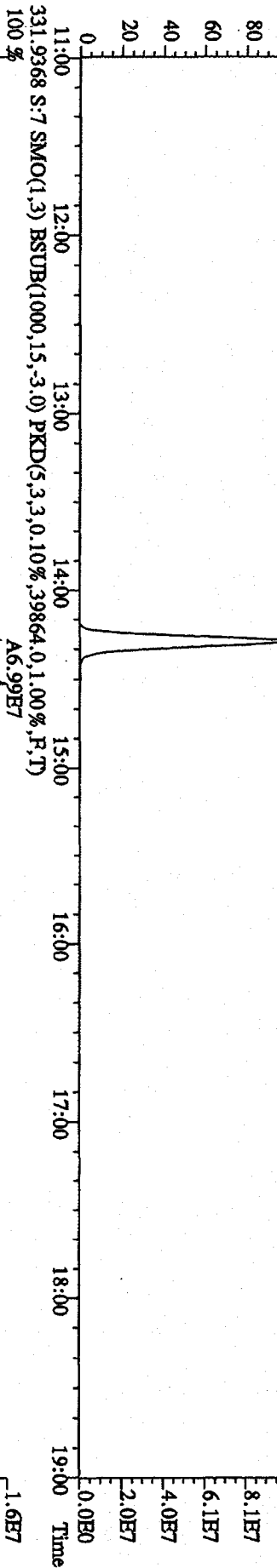
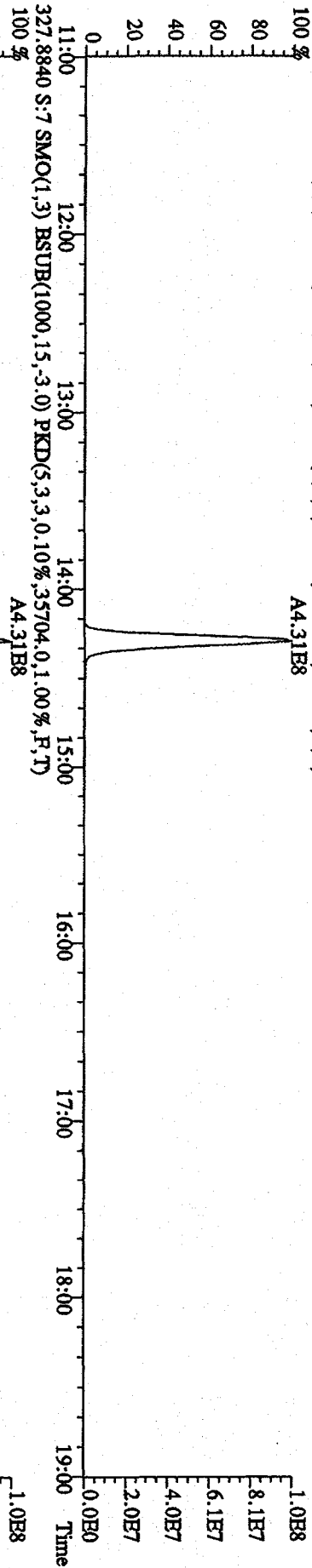
File:21OC095D2 #1-1242 Acq:22-OCT-2009 01:08:10 GC EI+ Voltage SIR 70SB

Sample#7 Text:ST1021H :CSS 09DXN240

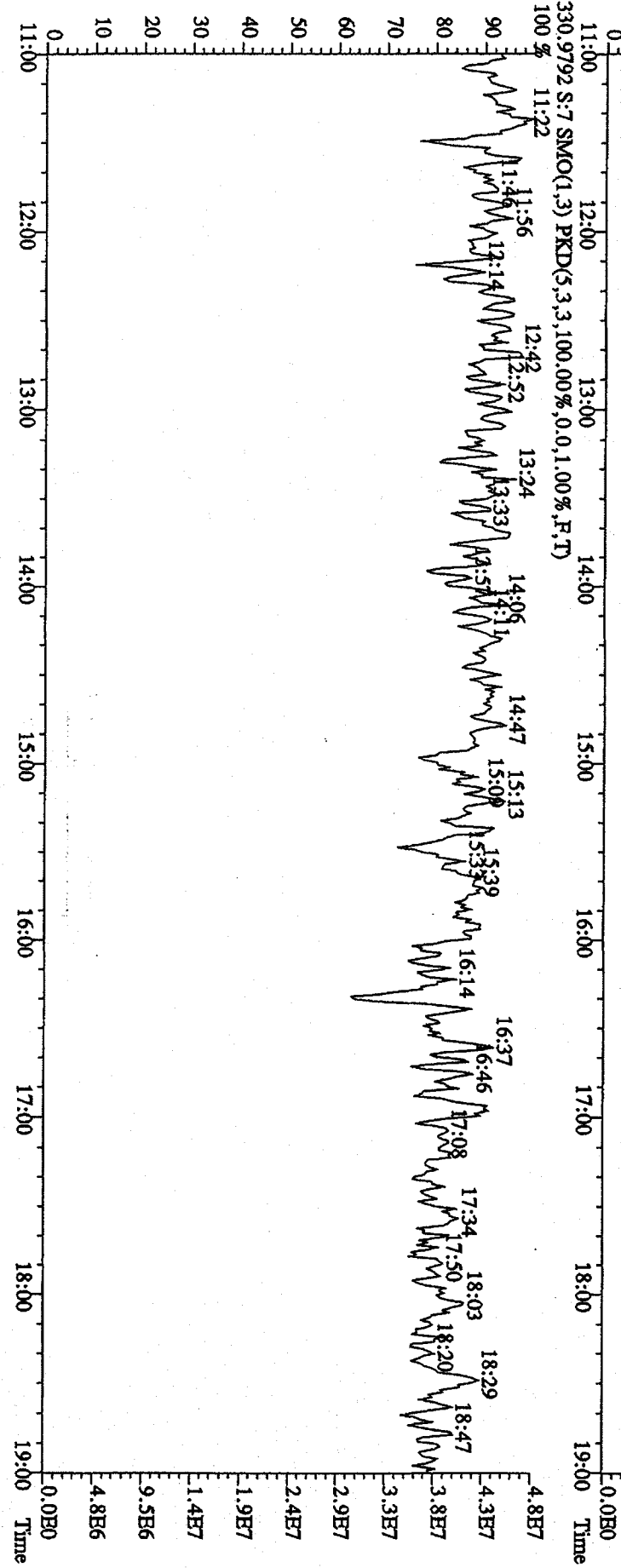
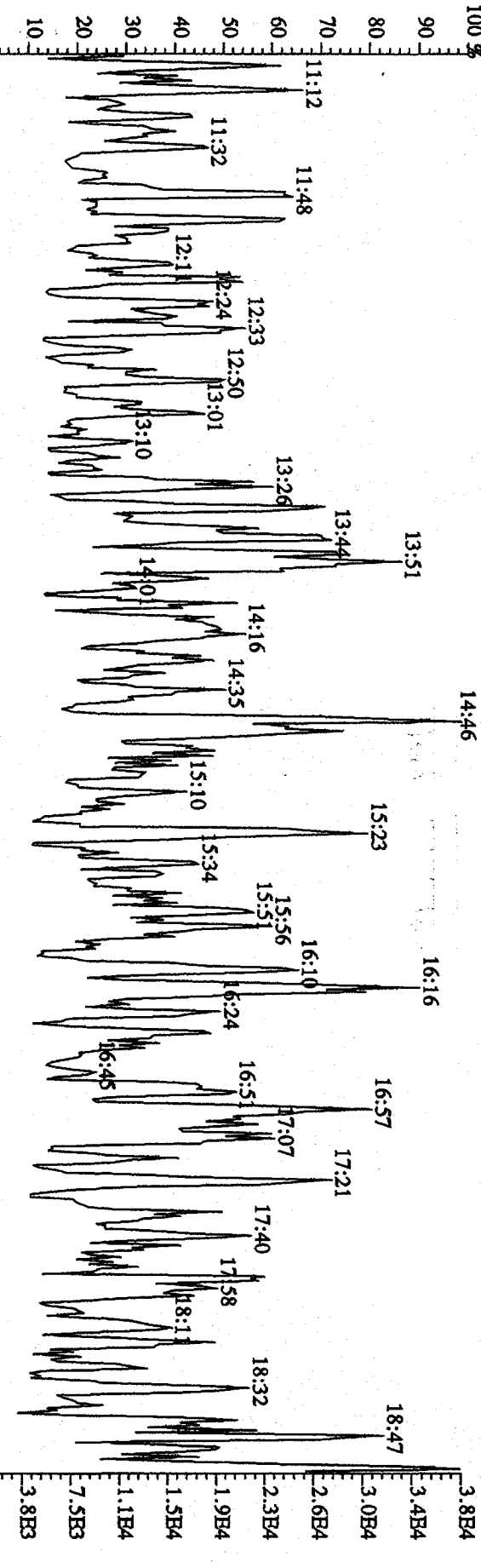
Exp:DB225

327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,35704,0,1.00%,F,T)

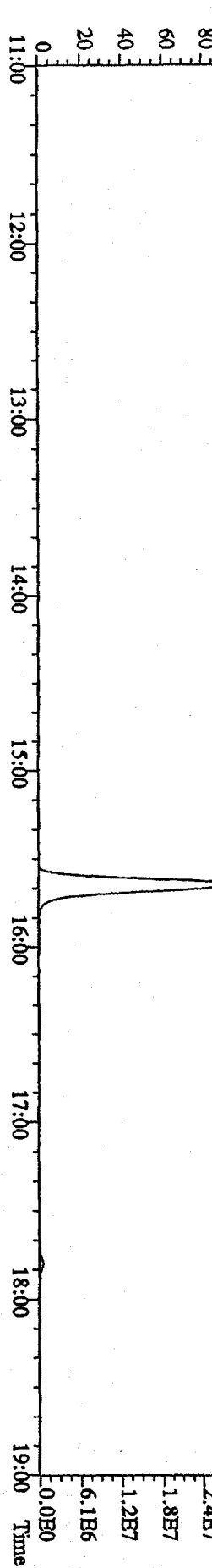
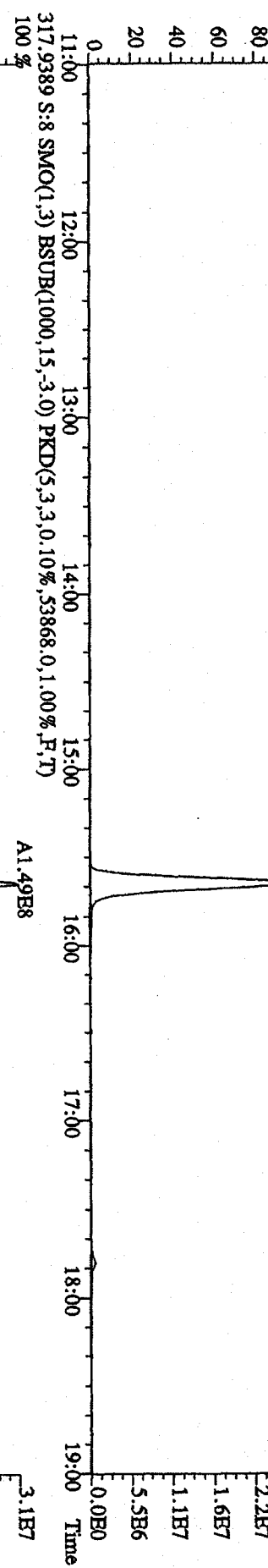
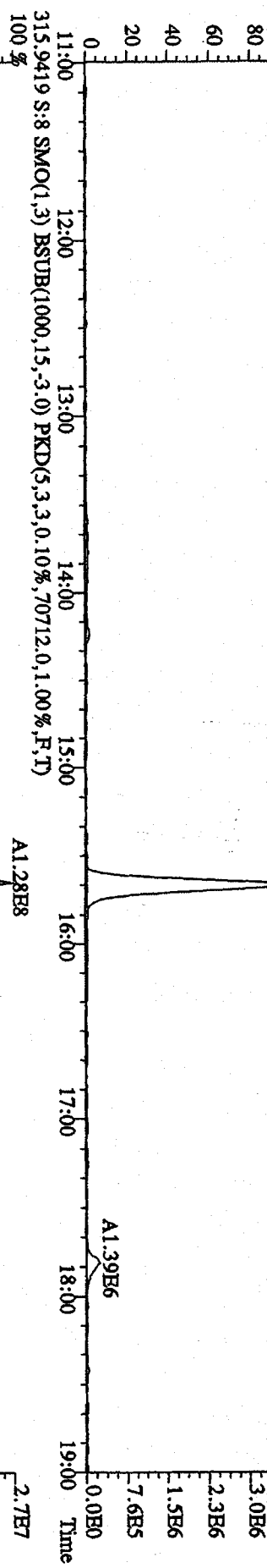
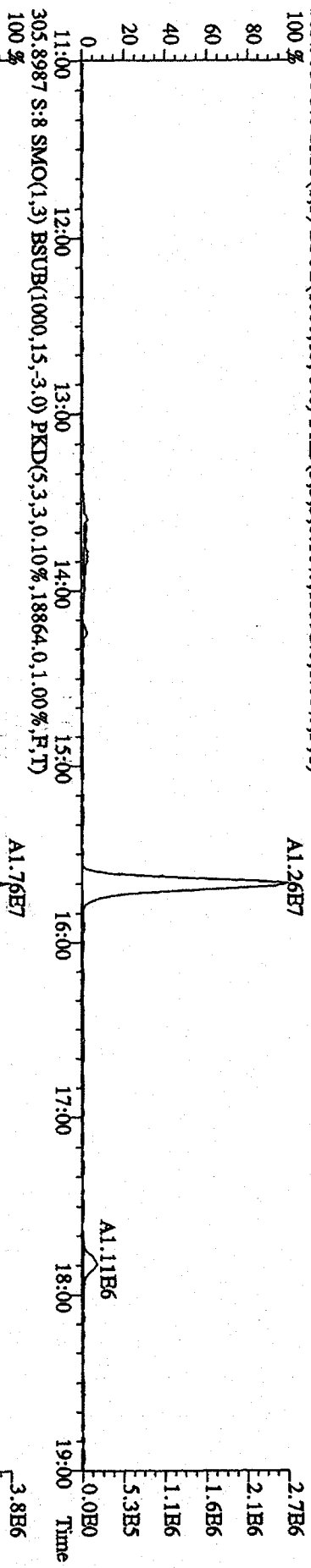
A4.31E8



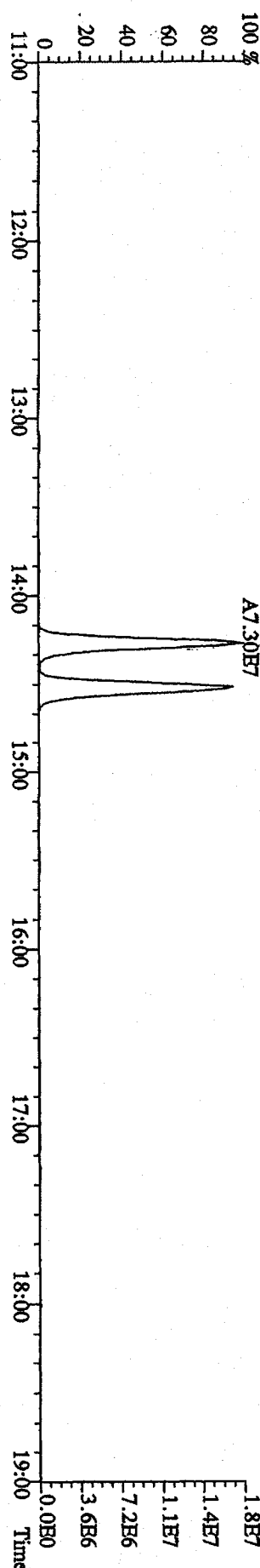
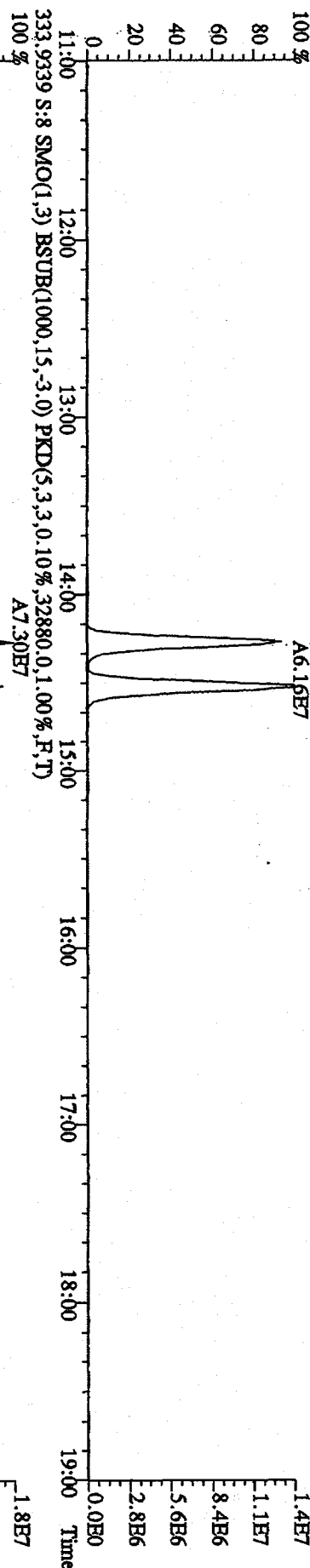
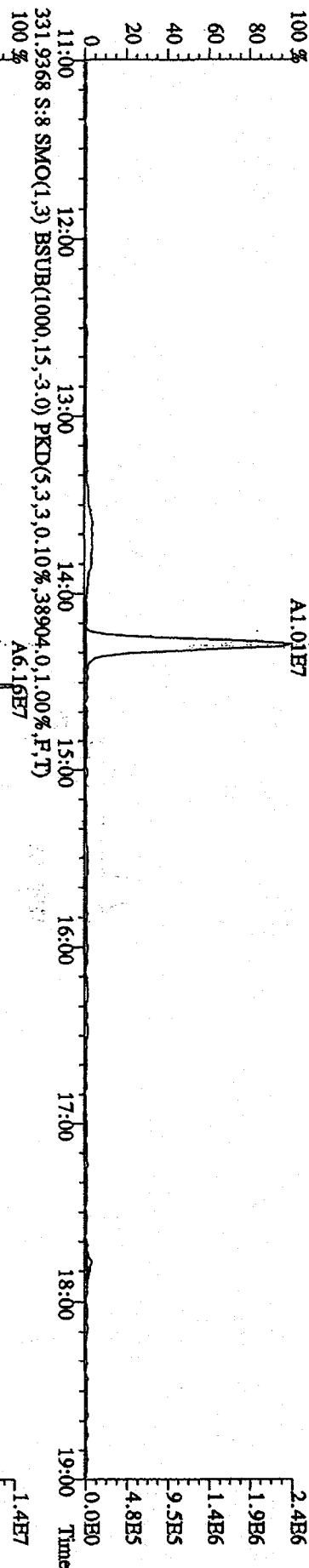
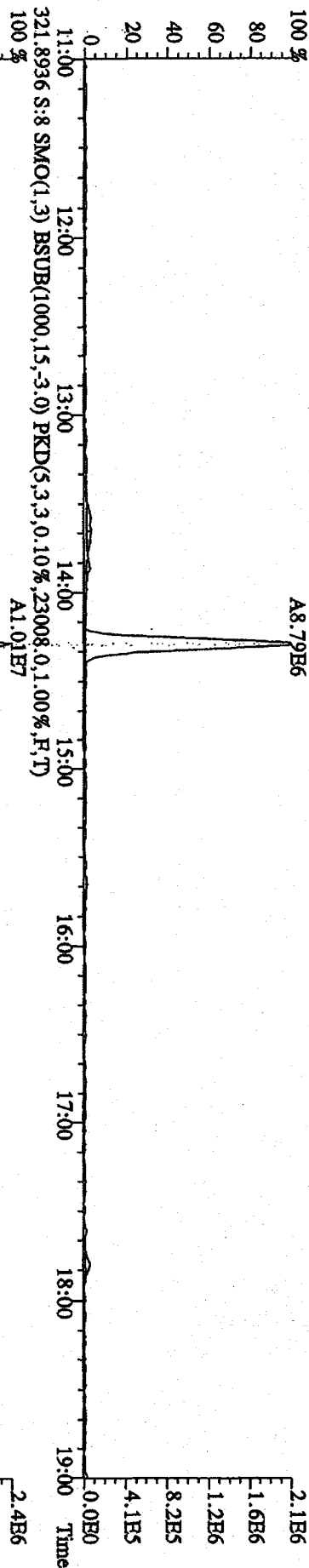
File: 21OC095D2 #1-1242 Acq: 22-OCT-2009 01:08:10 GC EI+ Voltage SIR 70SB
 Sample#7 Text: ST1021E :CSS 09DXN240 Exp: DB225
 375.8364 S:7 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1.00%,F,T)
 100%



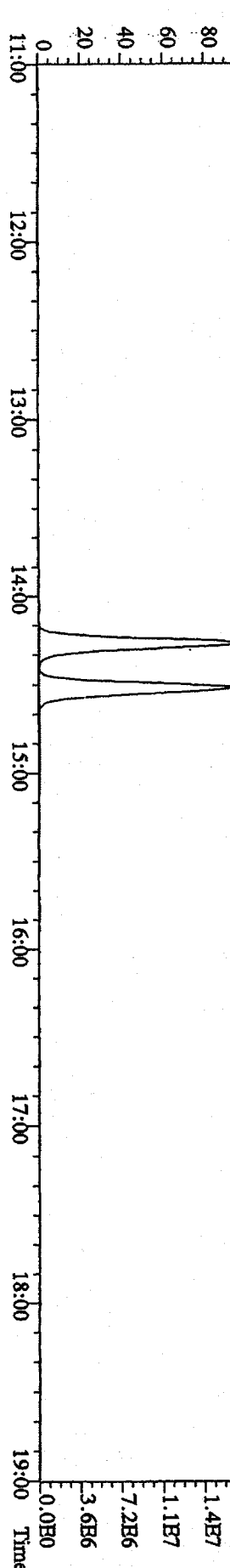
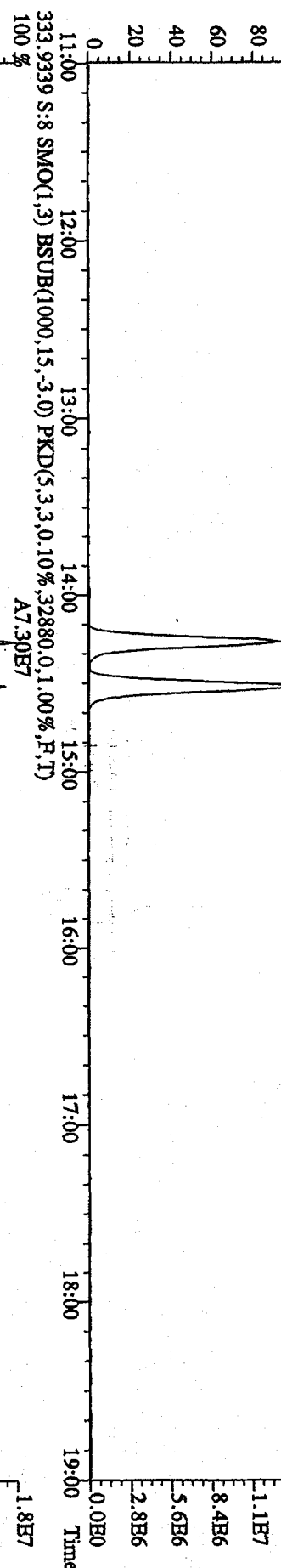
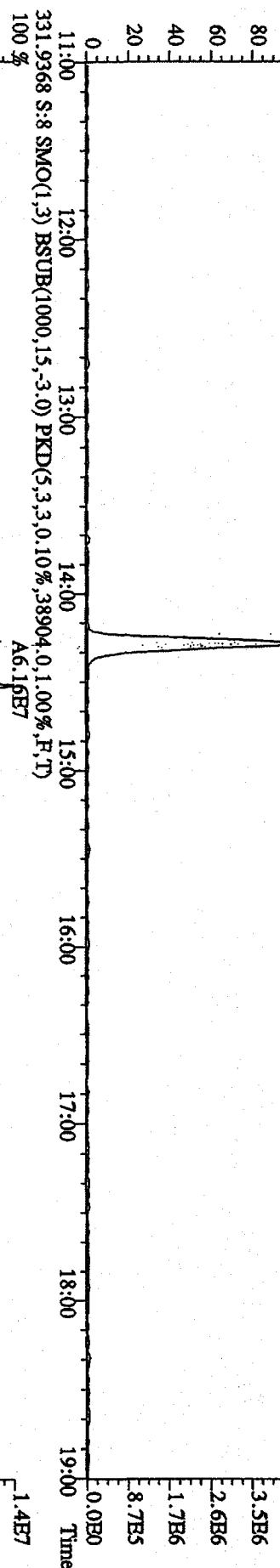
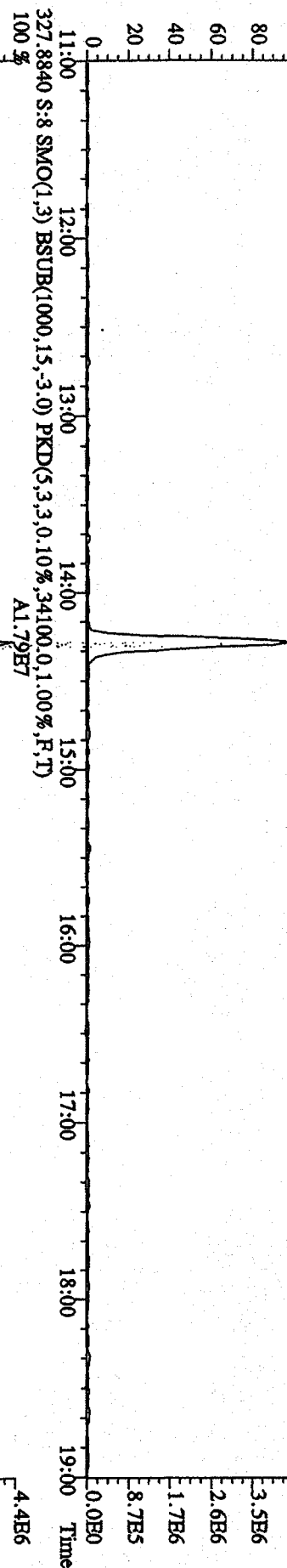
File:21OC095D2 #1-1242 Acq:22-OCT-2009 01:45:11 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1021F :2nd Source 09DXN300 Exp:DB225
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15592,0,1,00%,F,T)
 100%



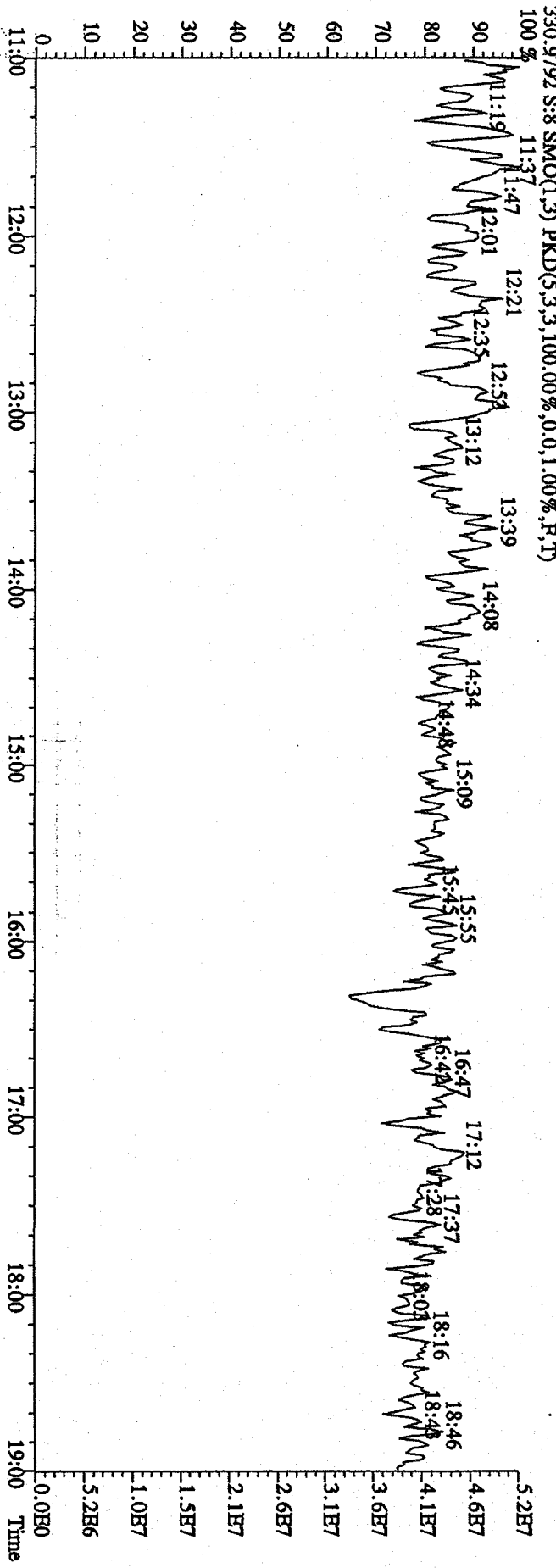
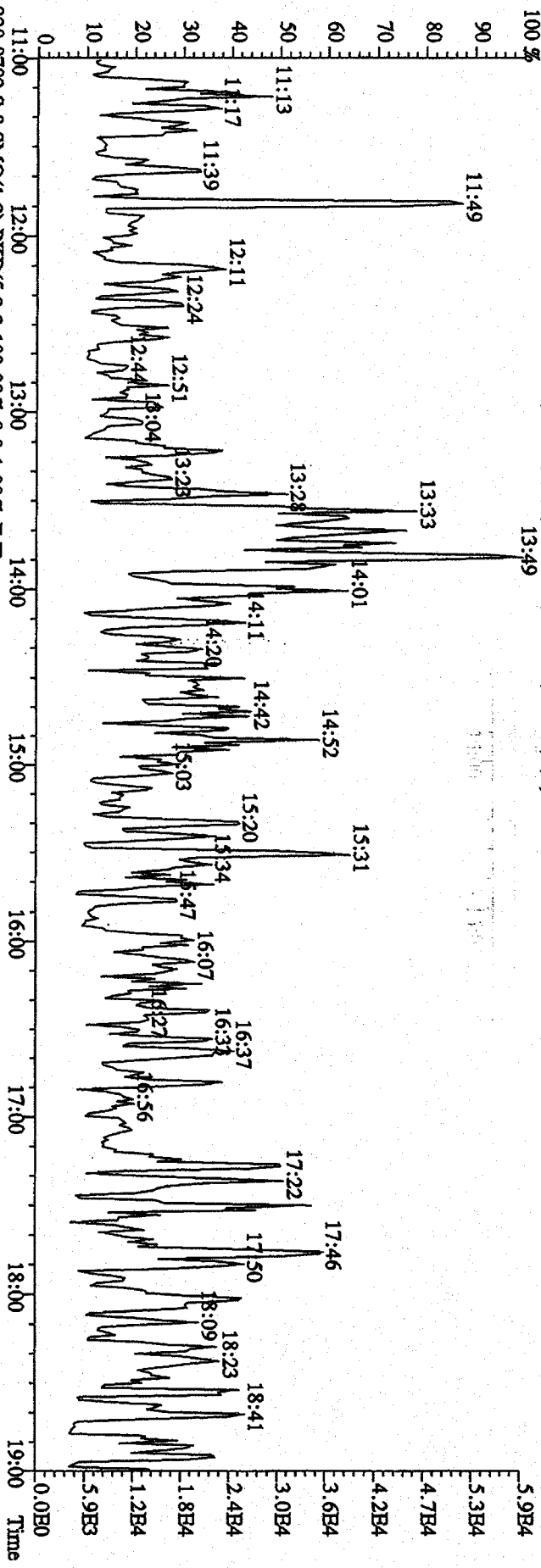
File:21OC09SD2 #1-1242 Acq:22-OCT-2009 01:45:11 GC FI+ Voltage SIR 70SE
 Sample#8 Text:ST1021F :2nd Source 09DXN300 Exp:DB225
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15960,0,1.00%,F,T)
 100 % A8.79E6



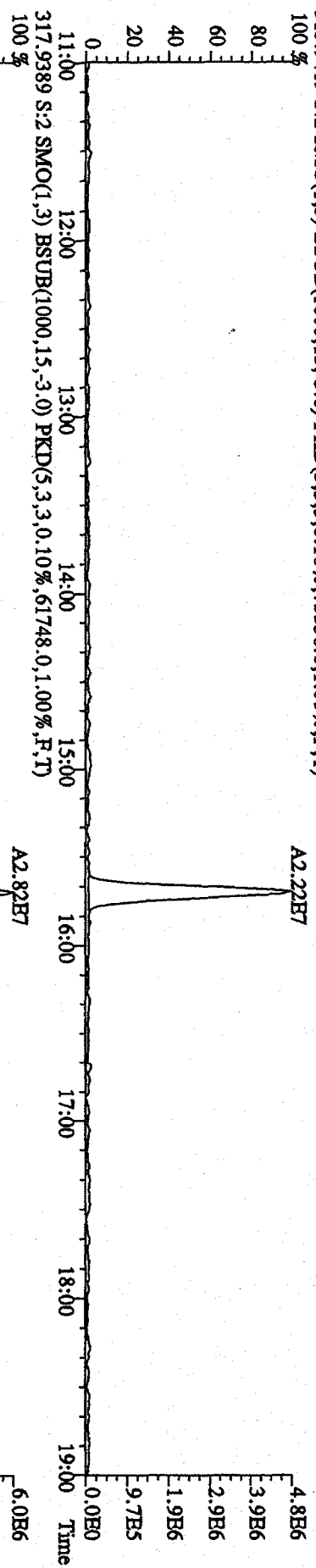
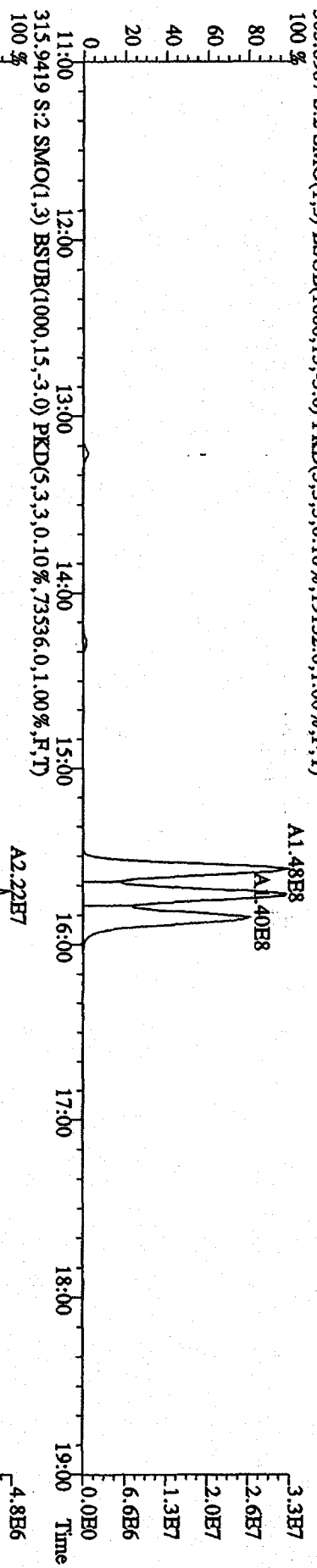
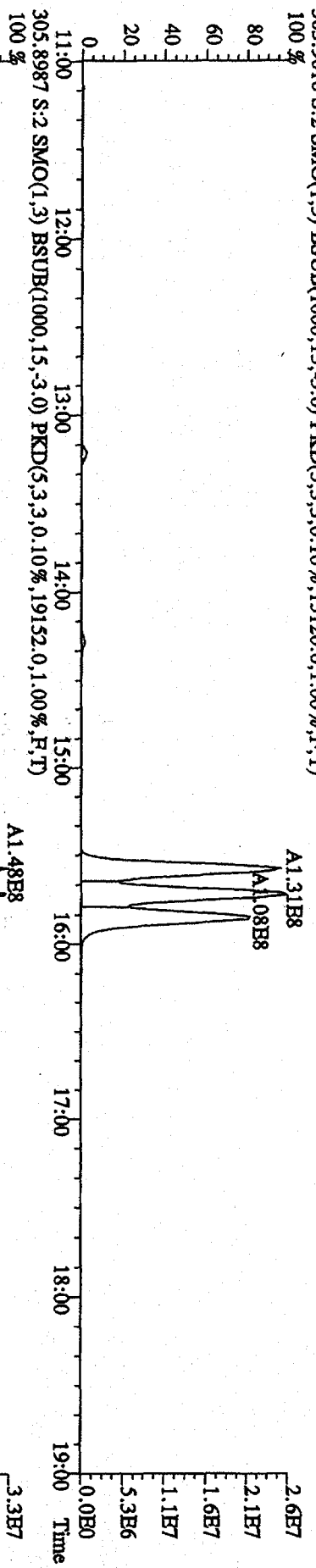
File:210C095ID2 #1-1242 Acq:22-OCT-2009 01:45:11 GC FI+ Voltage SIR 70SE
 Sample#8 Text:ST1021F :2nd Source 09DXN300 Exp:DB225
 327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34100,0.1,00%,F,T)
 100% A1.79E7



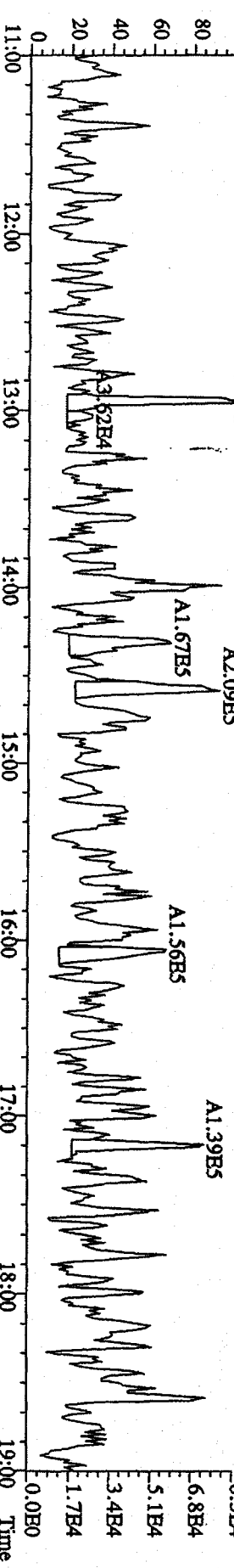
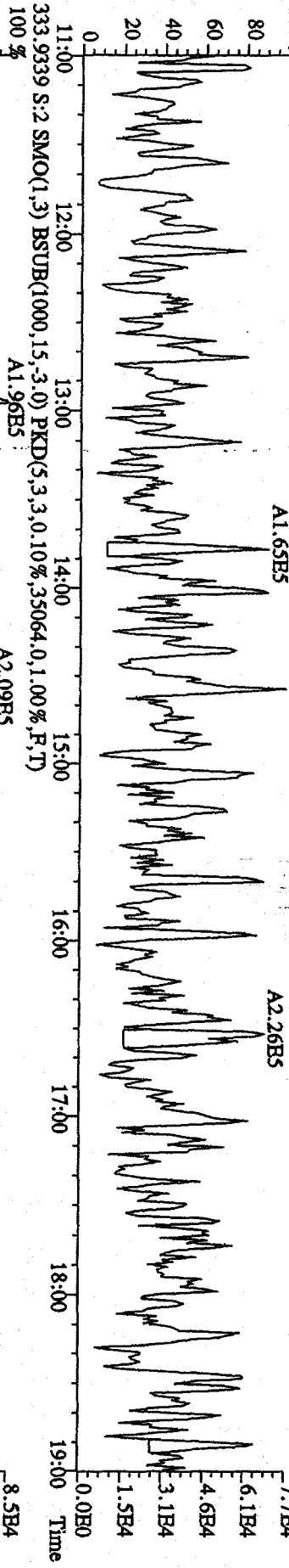
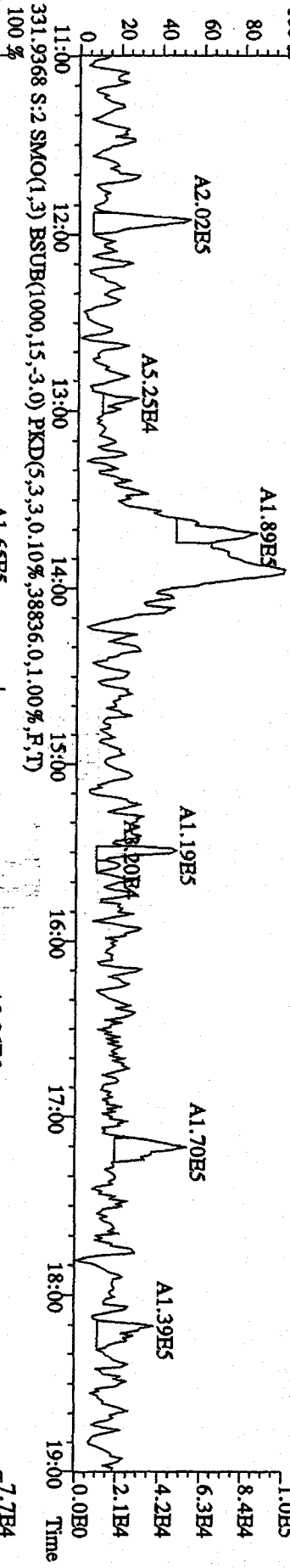
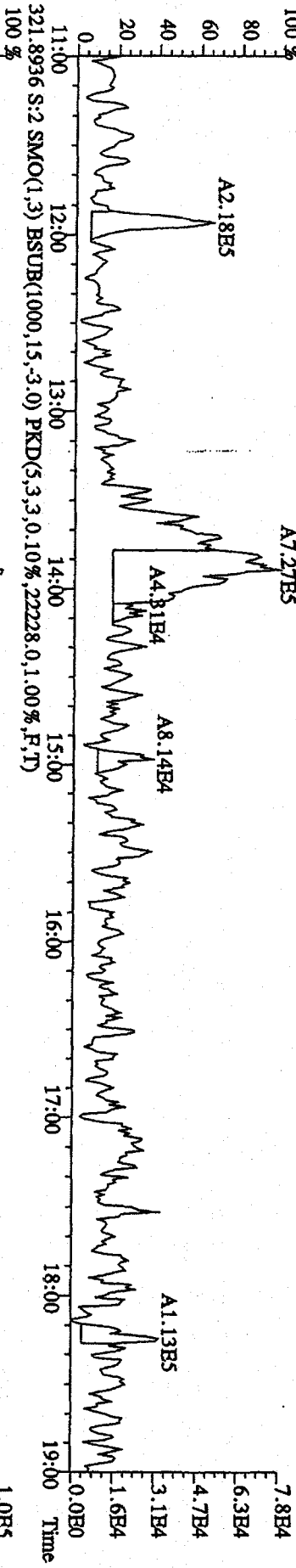
File: 210C095D2 #1-1242 Acq: 22-OCT-2009 01:45:11 GC BI+ Voltage SIR 70SE
 Sample#8 Text: ST1021F 2nd Source 09DXN300 Exp: DB225
 375.8364 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1.00%,F,T)
 100%



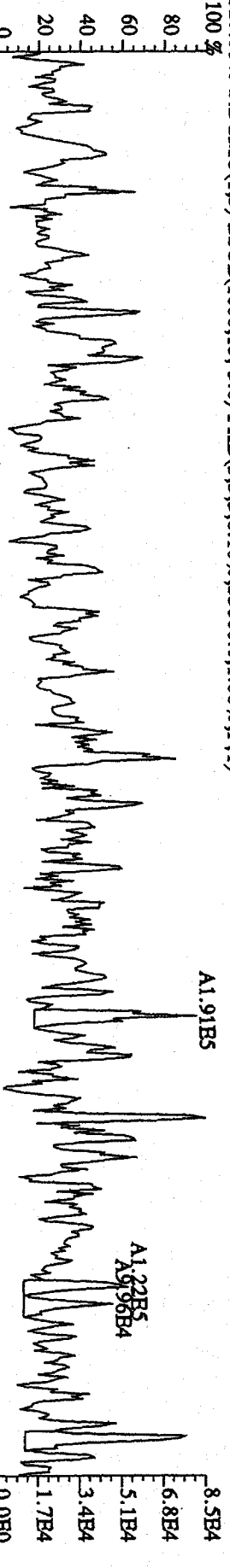
File:21OC095D2 #1-1242 Acq:21-OCT-2009 22:03:00 GC HI+ Voltage SIR 70SE
 Sample#2 Text:CP1021 :DB-225 CPM 3732-01 Exp:DB225
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15120.0,1.00%,F,T)
 100%



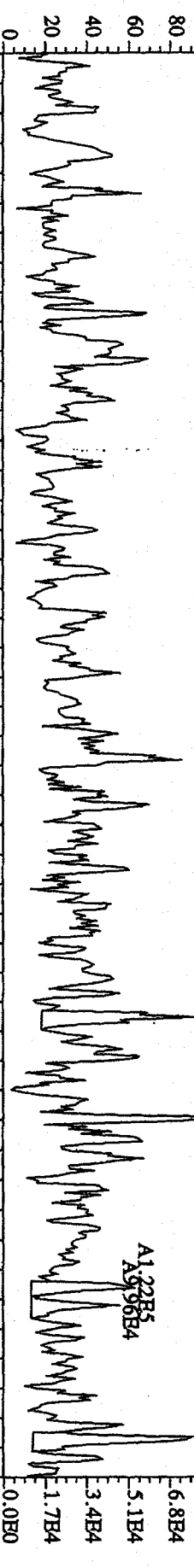
File: 21OC095D2 #1-1242 Acq: 21-OCT-2009 22:03:00 GC HI+ Voltage SIR 70SE
 Sample# 2 Text: CP1021 :DB-225 CPSM 3732-01 Exp: DB225
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,16996,0,1.00%,F,T)
 A7.27B5



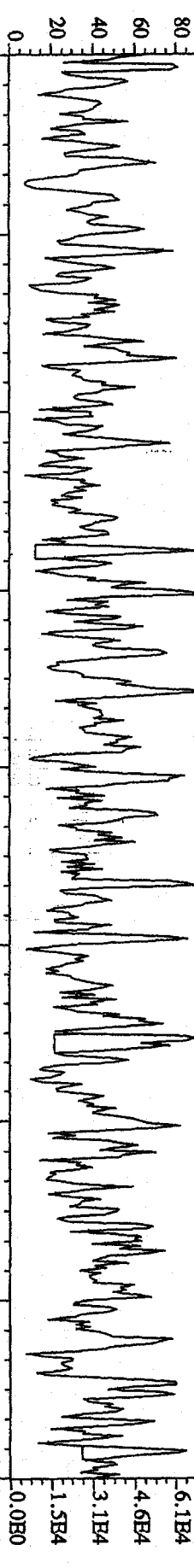
File:21OC09SD2 #1-1242 Acq:21-OCT-2009 22:03:00 GC HI+ Voltage SIR 70SB
 Sample#2 Text:CP1021 :DB-225 CP5M 3732-01 Exp:DB225
 327.8840 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,33060,0,1,00%,F,T)



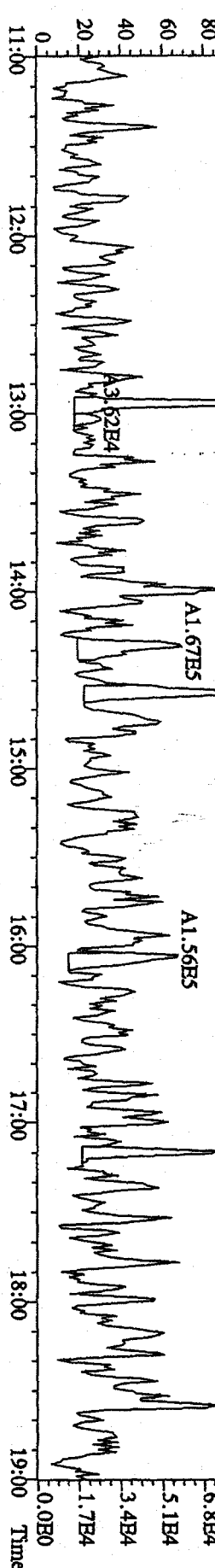
327.8840 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,33060,0,1,00%,F,T)



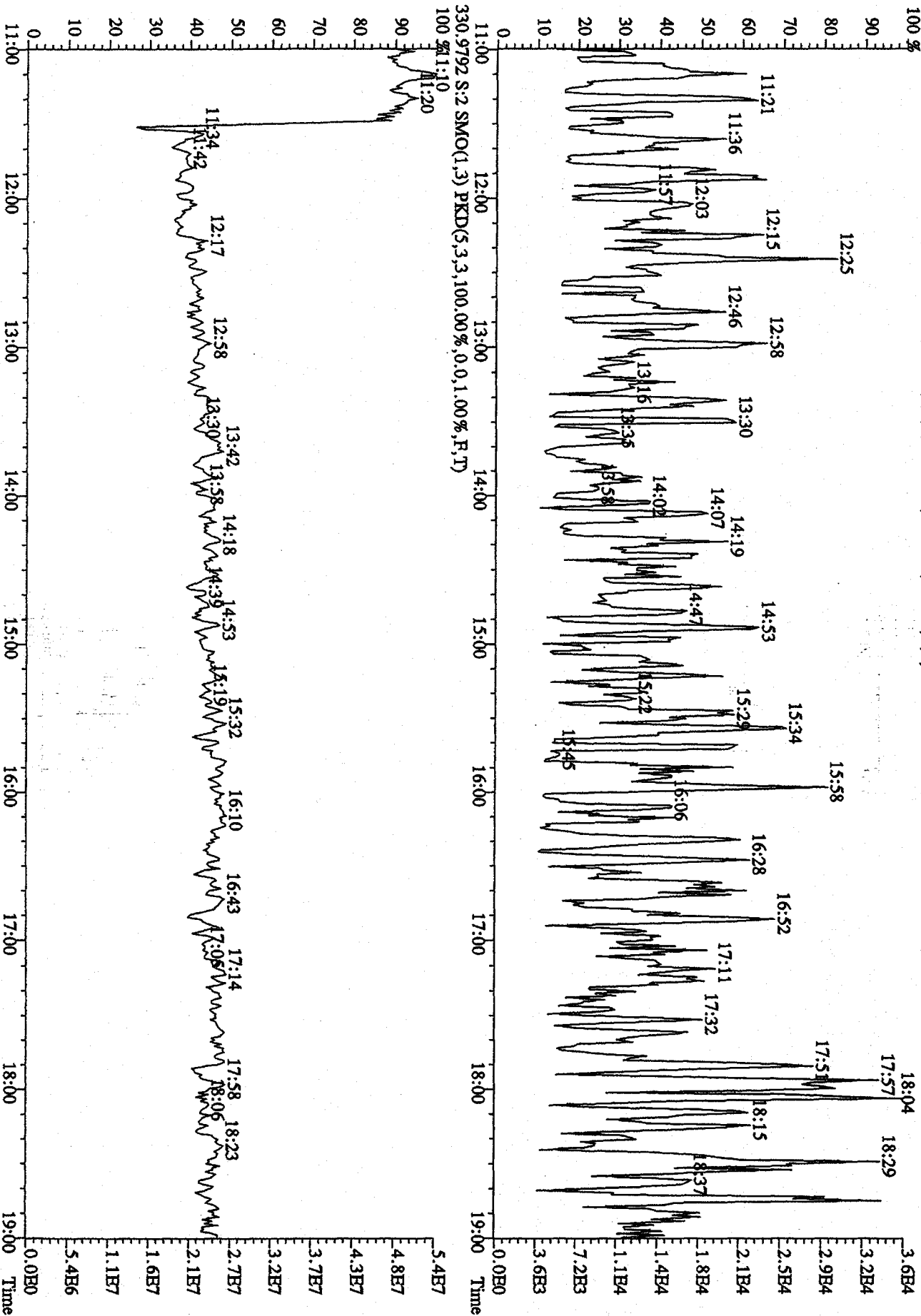
331.9368 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,38836,0,1,00%,F,T)



333.9339 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,35064,0,1,00%,F,T)



File: 21OC095D2 #1-1242 Acq: 21-OCT-2009 22:03:00 GC EI+ Voltage SIR 70SE
 Sample#2 Text: CP1021 .IDB-225 CPISM 3732-01 Exp: DB225
 375.8364 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Initial Calibration Checklist Dioxin Methods

ICAL ID (DB225, DB225AIR) 0104105D2

Method ID 8290, 1613B, 23, 0023A, TO9 Date Scanned _____

Column ID DB225 Instrument ID 502

STD ID's ST0104(D, E, F, H, G) STD Solution 09DXN(422, 423, 425, 426, 456)

GC Program DB225 Multiplier Setting 820

Analyzed By A.M. Date Analyzed 1/4/10

Prepared By M.G. Date Prepared 1/5/10

Reviewed By MEG Date Reviewed 1/5/10

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?*	✓ ①	①
Signal-to-noise criteria met?	✓	✓
Isotopic ratios within limits?	✓	✓
High point free of saturation?	✓	✓
Are chromatographic windows correct?	✓	✓
Manual reintegration's checked and hardcopies included?	✓	✓

COMMENTS: ① CRS failed (26.2%) + (26.9%) ∴ use for TCDF confirmation only. Do not report CRS using this ICV.
ICAL 053 1.234-TCDF RT= 14.21

*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: 04JA10A5D2 Analyte: DB225

Cal: DB2250104105D2

ST0104D : CS-1 09DXN422
ST0104G : CS-5 09DXN456

ST0104E : CS-2 09DXN423
ST0104H : CS-4 09DXN426

ST0104F : CS-3 09DXN425

04JA10B5D204JA10B5D204JA10B5D204JA10B5D204JA10B5D204JA10B5D2

Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.664	0.062	3.75 %	1.65	1.58	1.73	1.72	1.64
2,3,7,8-TCDF	1.014	0.078	7.69 %	1.14	0.94	0.97	1.01	1.00
13C-2,3,7,8-TCDD	0.951	0.045	4.78 %	0.98	0.90	0.99	0.98	0.91
2,3,7,8-TCDD	1.183	0.038	3.23 %	1.19	1.21	1.12	1.18	1.22
37Cl-2,3,7,8-TCDD	2.068	0.541	26.2 %	2.60	2.20	1.15	2.23	2.16

Run #1 Filename 04JA10B5D2 S: 3 I: 1
Acquired: 4-JAN-10 22:54:06 Processed: 5-JAN-10 07:29:29
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

Comments:

Sample text: ST0104D :CS-1 09DXN422

Name	Resp	RA	RT	RRF	Mod?
13C-1,2,3,4-TCDD	251267000	0.74 y	14:22	-	100.00 n
13C-2,3,7,8-TCDF	413691000	0.80 y	15:29	1.646	100.00 n
2,3,7,8-TCDF	2044403	0.94 n	15:30	0.988	0.50 n
13C-2,3,7,8-TCDD	246414000	0.74 y	14:09	0.981	100.00 n
2,3,7,8-TCDD	1464885	0.85 y	14:11	1.189	0.50 n
37Cl-2,3,7,8-TCDD	3270460	1.00 y	14:10	2.603	0.50 n

Run #1 Filename 04JA10B5D2 S: 3 I: 1
Acquired: 4-JAN-10 22:54:06 Processed: 5-JAN-10 07:29:29
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

Comments:

Sample text: ST0104D :CS-1 09DXN422

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	251267000	0.74 y	14:22	-	100.00	n
13C-2,3,7,8-TCDF	413691000	0.80 y	15:29	1.646	100.00	n
2,3,7,8-TCDF	2366310	0.82 y	15:30	1.144	0.50	y
13C-2,3,7,8-TCDD	246414000	0.74 y	14:09	0.981	100.00	n
2,3,7,8-TCDD	1464885	0.85 y	14:11	1.189	0.50	n
37Cl-2,3,7,8-TCDD	3270460	1.00 y	14:10	2.603	0.50	n

Run #2 Filename 04JA10B5D2 S: 4 I: 1
Acquired: 4-JAN-10 23:31:09 Processed: 5-JAN-10 07:29:30
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

Comments:

Sample text: ST0104E :CS-2 09DXN423

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	266401000	0.74 y	14:21	-	100.00	n
13C-2,3,7,8-TCDF	420343000	0.82 y	15:28	1.578	100.00	n
2,3,7,8-TCDF	7934710	0.83 y	15:29	0.944	2.00	n
13C-2,3,7,8-TCDD	239289000	0.76 y	14:08	0.898	100.00	n
2,3,7,8-TCDD	5783460	0.83 y	14:09	1.208	2.00	n
37Cl-2,3,7,8-TCDD	11695680	1.00 y	14:09	2.195	2.00	n

Run #3 Filename 04JA10B5D2 S: 5 I: 1
Acquired: 5-JAN-10 00:08:17 Processed: 5-JAN-10 07:29:30
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

Comments:

Sample text: ST0104F :CS-3 09DXN425

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	122886700	0.75 y	14:21	-	100.00	n
13C-2,3,7,8-TCDF	212032300	0.81 y	15:28	1.725	100.00	n
2,3,7,8-TCDF	20479400	0.82 y	15:29	0.966	10.00	n
13C-2,3,7,8-TCDD	121954600	0.77 y	14:08	0.992	100.00	n
2,3,7,8-TCDD	13669350	0.79 y	14:09	1.121	10.00	n
37Cl-2,3,7,8-TCDD	14173780	1.00 y	14:09	1.153	10.00	n

Run #4 Filename 04JA10B5D2 S: 6 I: 1
Acquired: 5-JAN-10 00:45:19 Processed: 5-JAN-10 07:29:30
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

Comments:

Sample text: ST0104G :CS-5 09DXN456

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	175057200	0.77 y	14:22	-	100.00	n
13C-2,3,7,8-TCDF	301911000	0.81 y	15:29	1.725	100.00	n
2,3,7,8-TCDF	611201000	0.80 y	15:30	1.012	200.00	n
13C-2,3,7,8-TCDD	171409900	0.74 y	14:09	0.979	100.00	n
2,3,7,8-TCDD	403135000	0.80 y	14:11	1.176	200.00	n
37Cl-2,3,7,8-TCDD	779324000	1.00 y	14:10	2.226	200.00	n

Run #5 Filename 04JA10B5D2 S: 7 I: 1
Acquired: 5-JAN-10 01:22:21 Processed: 5-JAN-10 07:29:31
Run: 04JA10A5D2 Analyte: DB225 Cal: DB2250104105D2

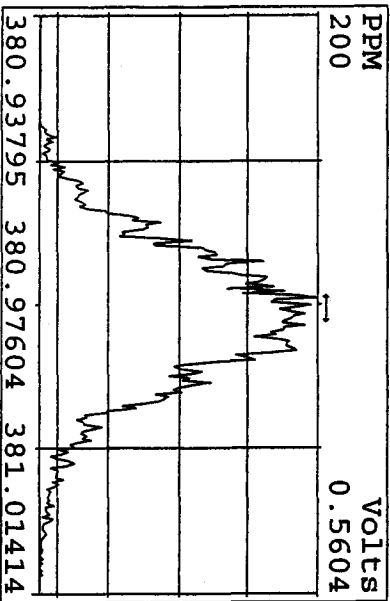
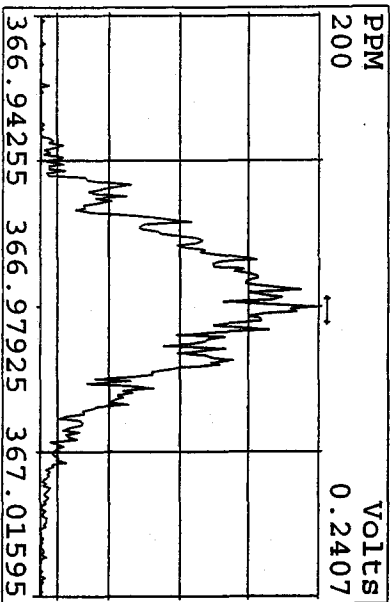
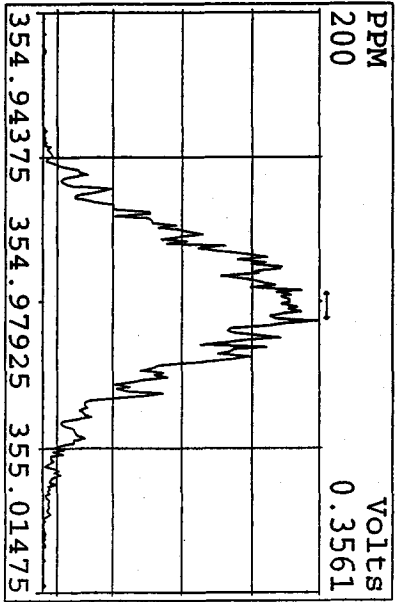
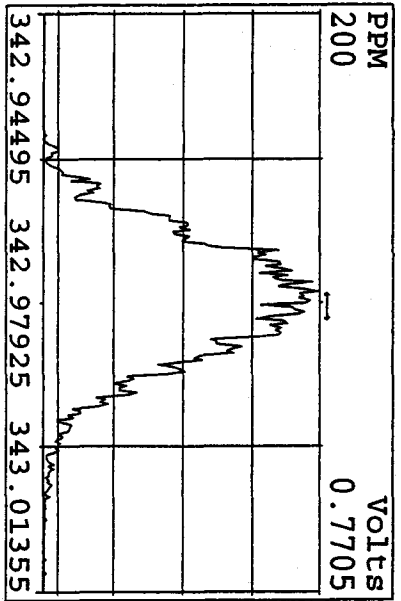
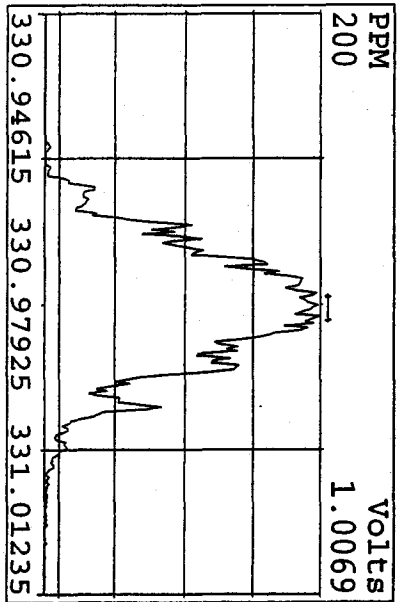
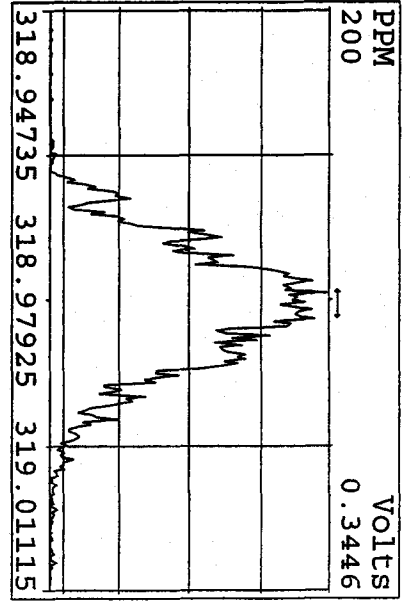
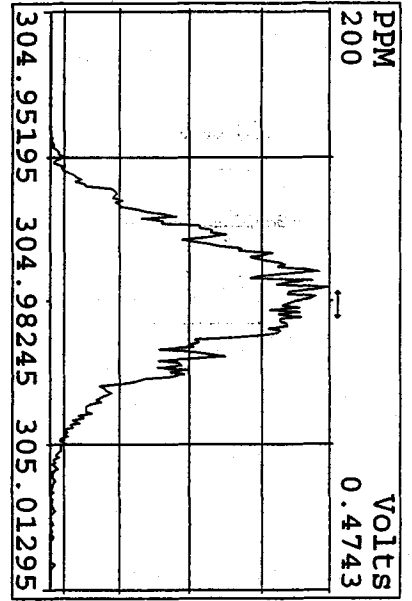
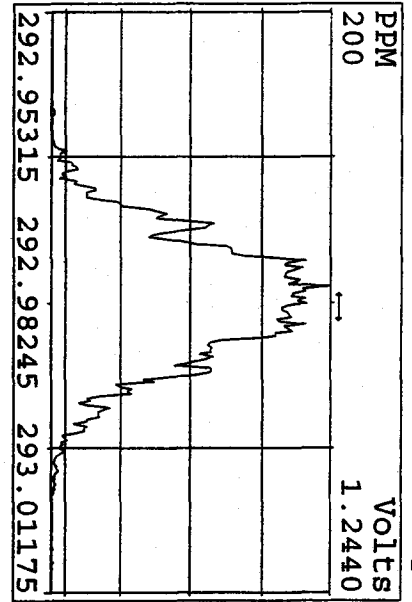
Comments:

Sample text: ST0104H :CS-4 09DXN426

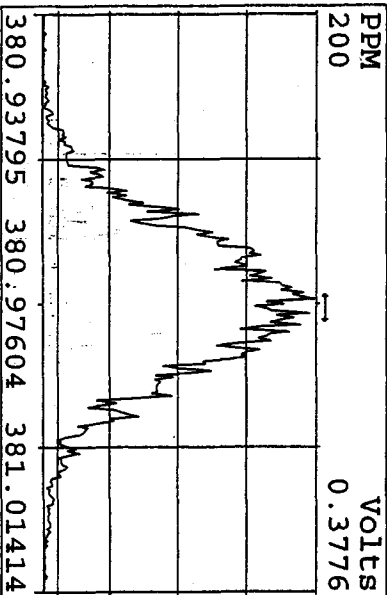
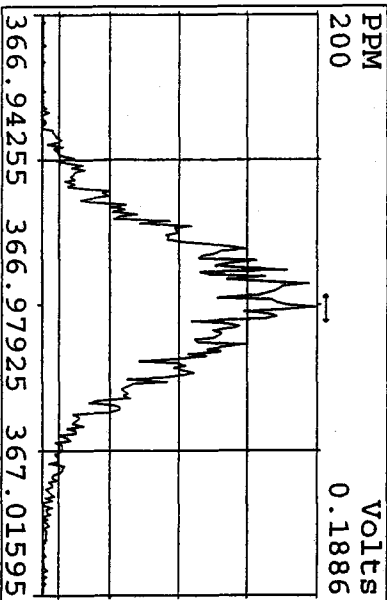
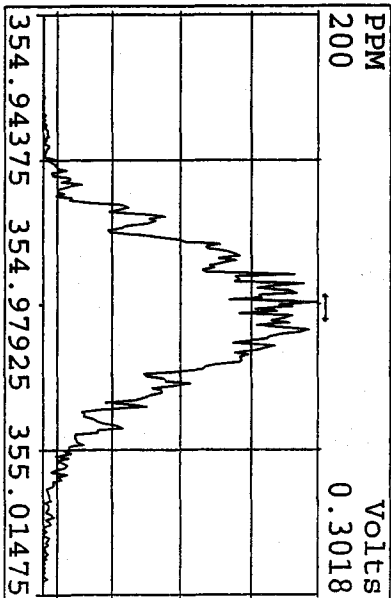
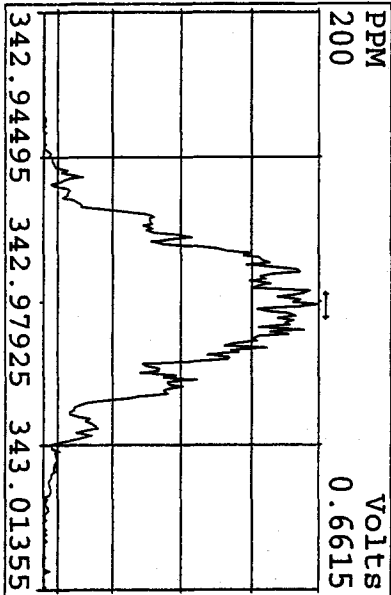
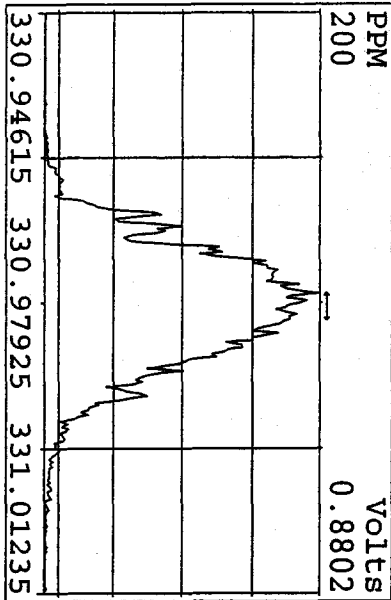
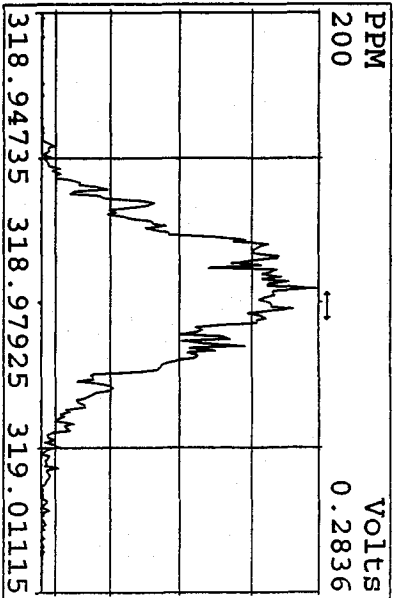
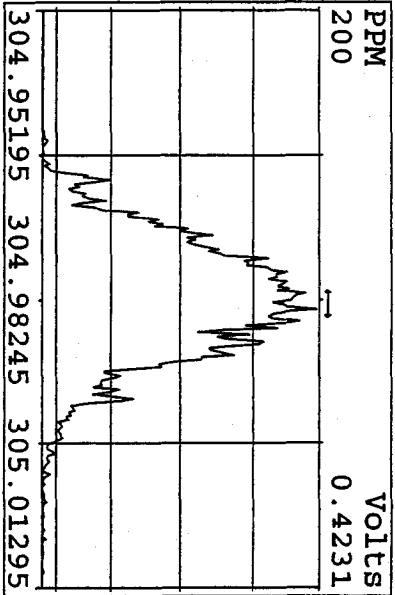
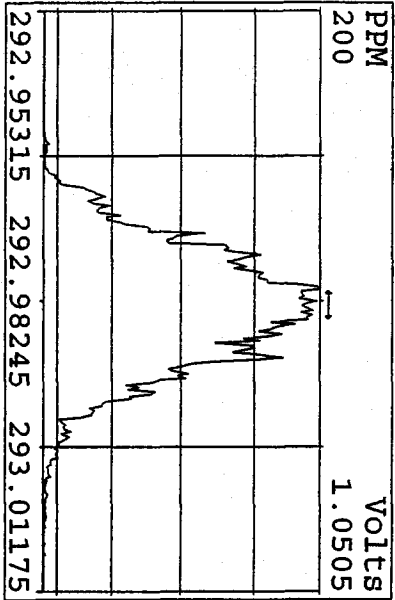
Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	266035000	0.75 y	14:22	-	100.00	n
13C-2,3,7,8-TCDF	437272000	0.82 y	15:29	1.644	100.00	n
2,3,7,8-TCDF	175195400	0.81 y	15:30	1.002	40.00	n
13C-2,3,7,8-TCDD	240856000	0.75 y	14:09	0.905	100.00	n
2,3,7,8-TCDD	117378400	0.80 y	14:10	1.218	40.00	n
37C1-2,3,7,8-TCDD	230058000	1.00 y	14:10	2.162	40.00	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
04JA10B5D2	1	CP0104B	DB225 CPSM 3732-01				1.000	
04JA10B5D2	2	CP0104C	DB225 CPSM 3732-01				1.000	
04JA10B5D2	3	ST0104D	CS-1 09DXN422				1.000	
04JA10B5D2	4	ST0104E	CS-2 09DXN423				1.000	
04JA10B5D2	5	ST0104F	CS-3 09DXN425				1.000	
04JA10B5D2	6	ST0104G	CS-5 09DXN456				1.000	
04JA10B5D2	7	ST0104H	CS-4 09DXN426				1.000	
04JA10B5D2	8	ST0104I	2nd Source 09DXN449				1.000	
04JA10B5D2	9						1.000	
04JA10B5D2	10						1.000	
04JA10B5D2	11						1.000	
04JA10B5D2	12						1.000	
04JA10B5D2	13						1.000	
04JA10B5D2	14		AM 01-04-10				1.000	
04JA10B5D2	15						1.000	

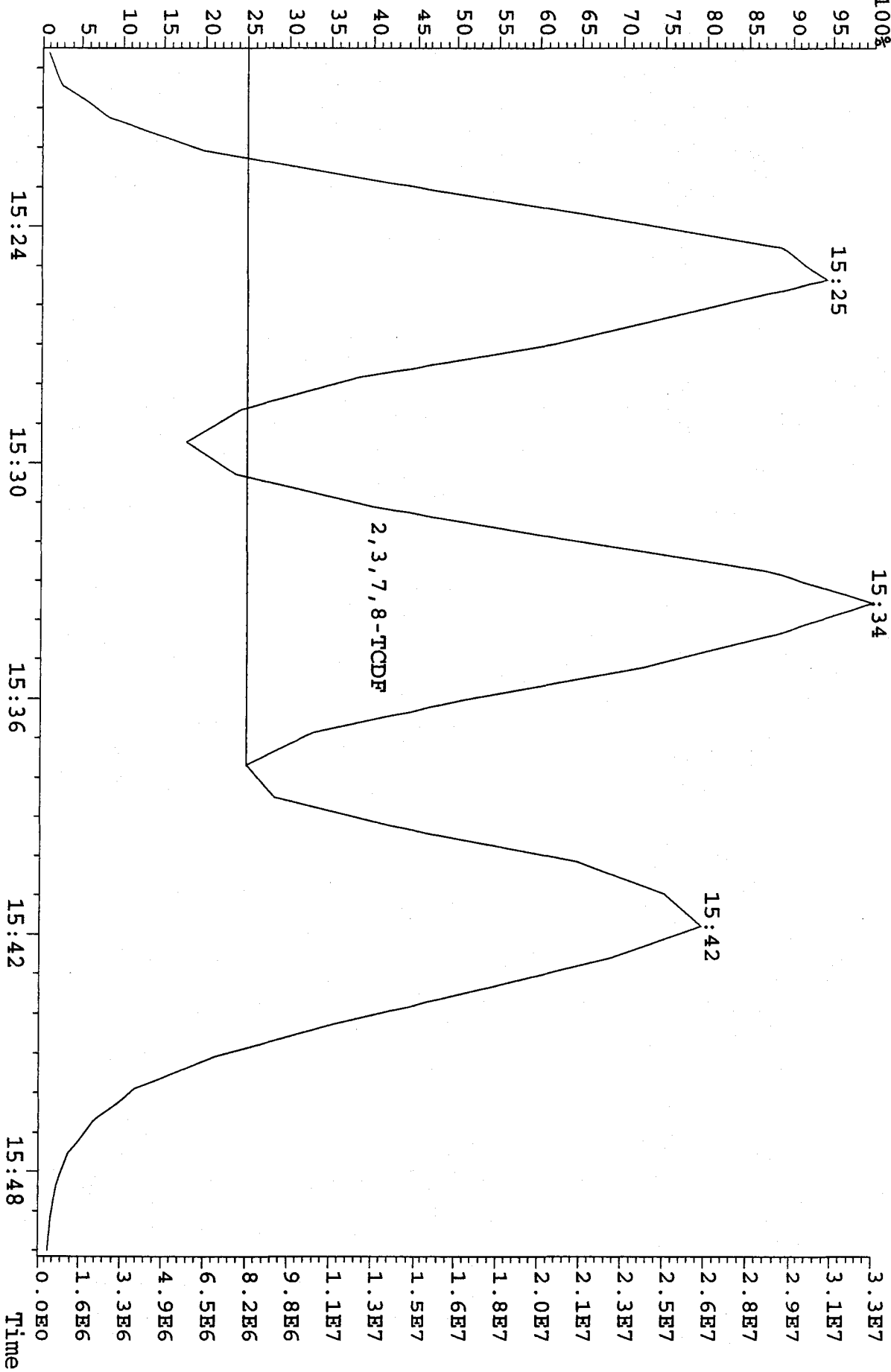
Peak Locate Examination: 4-JAN-2010:21:33 File:04JA10B5D2
 Experiment:DB225 Function:1 Reference:PKK



Peak Locate Examination: 5-JAN-2010:07:37 File: ENDRS04JA10B5D2
 Experiment: DB225 Function: 1 Reference: PFK



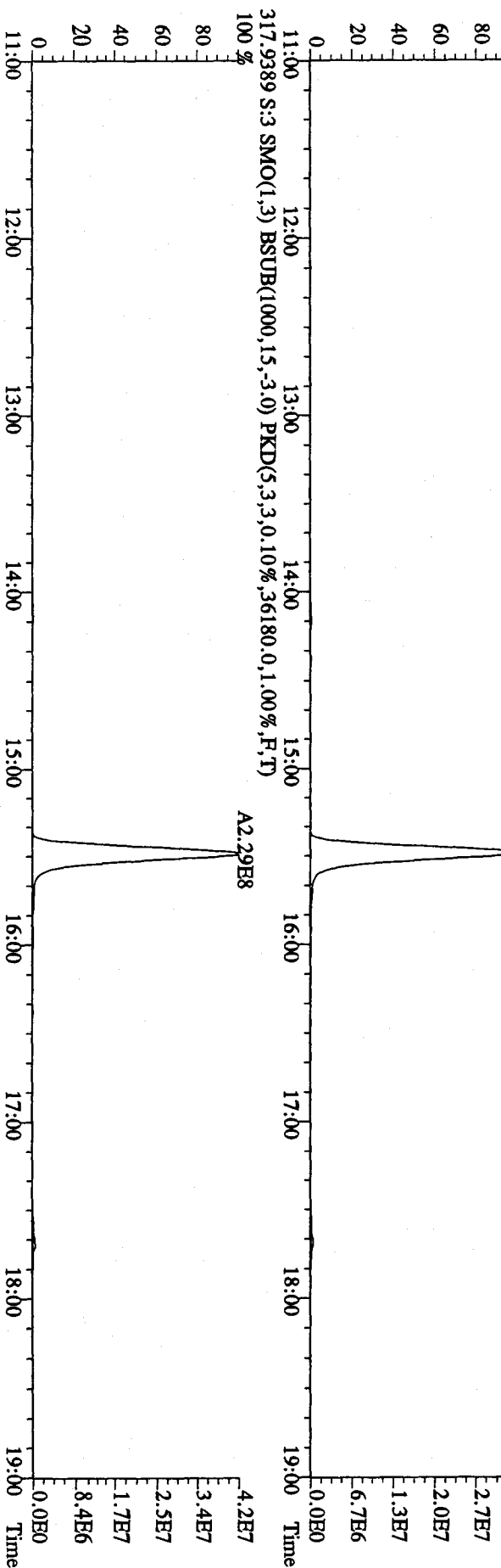
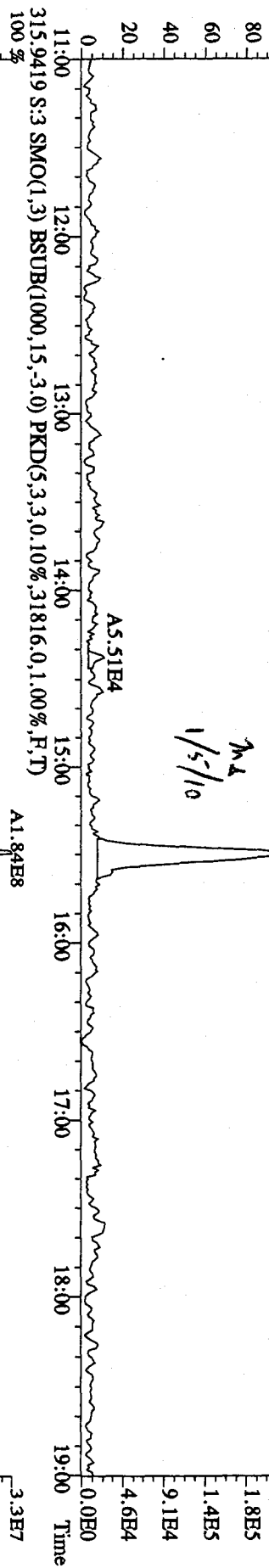
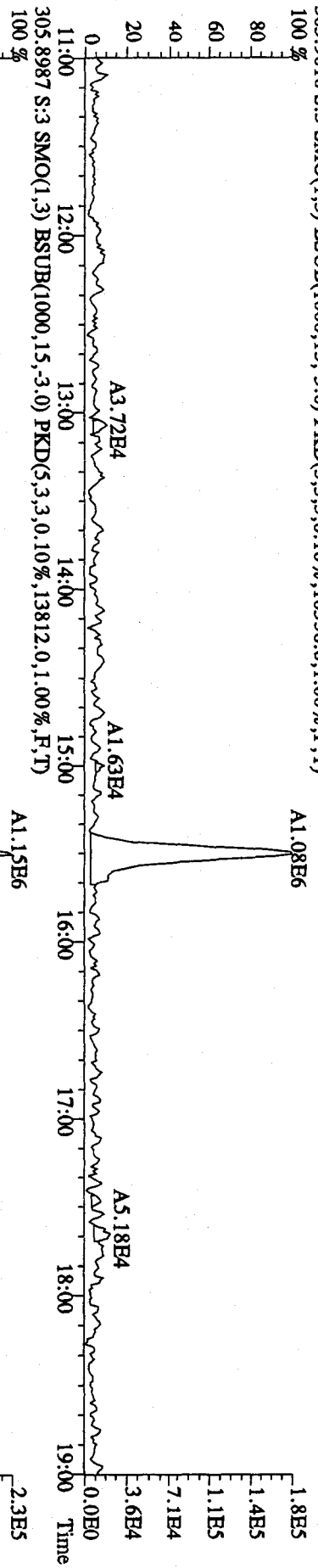
File: 04JA10B5D2 #1-1242 Acq: 4-JAN-2010 22:17:05 GC EI+ Voltage SIR 70SE
 303.9016 S: 2 BSUB(128,15,-3.0) Exp: DB225 Noise: 3300
 Sample Text: CP0104C : DB225 CPM 3732-01



Run text: ST0104I Sample text: ST0104I :2nd Source 09DXN449
 Run #6 Filename: 04JA10B5D2 S: 8 I: 1 Results: 04JA10B5D2DB225
 Acquired: 5-JAN-10 01:59:23 Processed: 5-JAN-10 07:32:10
 Run: 04JA10B5D2 Analyte: DB225 Cal: DB2250104105D2
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	231493400	0.75 y	14:21	-	107.01	-	-	n
13C-2,3,7,8-TCDF	411344000	0.79 y	15:29	1.66	2136.22	5.10	106.8	n
2,3,7,8-TCDF	39223200	0.79 y	15:30	1.01	188.17	2.13	-	n
13C-2,3,7,8-TCDD	223989400	0.75 y	14:08	0.95	2034.51	6.92	101.7	n
2,3,7,8-TCDD	26173300	0.82 y	14:09	1.18	197.63	2.54	-	n
37Cl-2,3,7,8-TCDD	54459400	1.00 y	14:09	2.07	227.53	1.20	113.8	n

File:041A10B5D2 #1-1242 Acq: 4-JAN-2010 22:54:06 GC EI+ Voltage SDR 70SE
 Sample#3 Text:ST0104D :CS-1 09DXN422 Exp:DB225
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10356,0,1,00%,F,T)

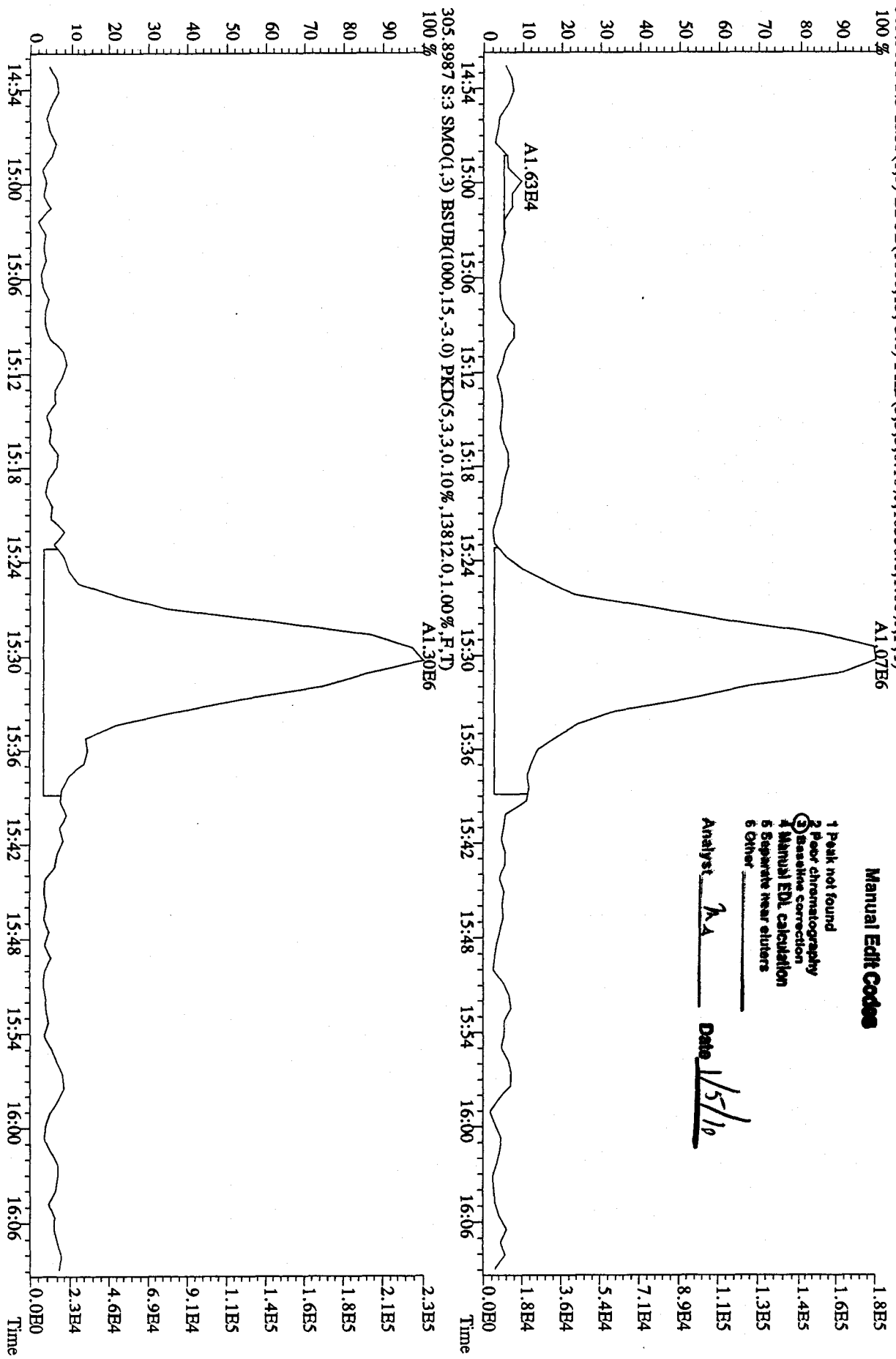


File:04JA10BSD2 #1-1242 Acq: 4-JAN-2010 22:54:06 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST0104D :CS-1 09DXN422 Exp:DB225
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,10356,0,1.00%,F,T)
 100%

Manual Edit Codes

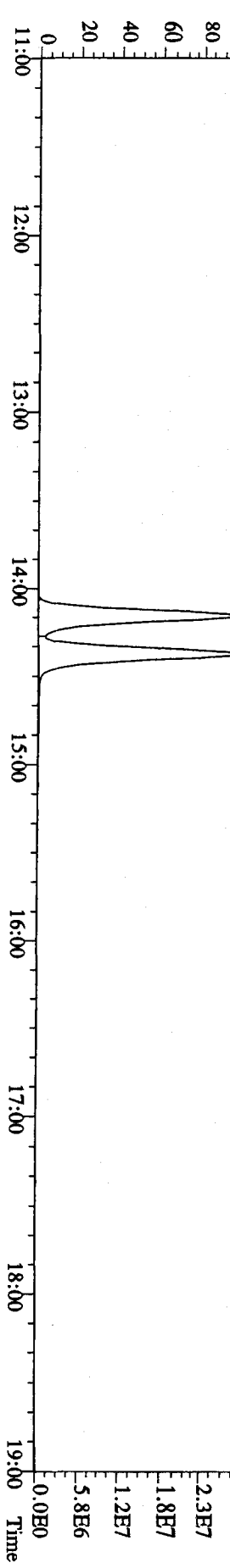
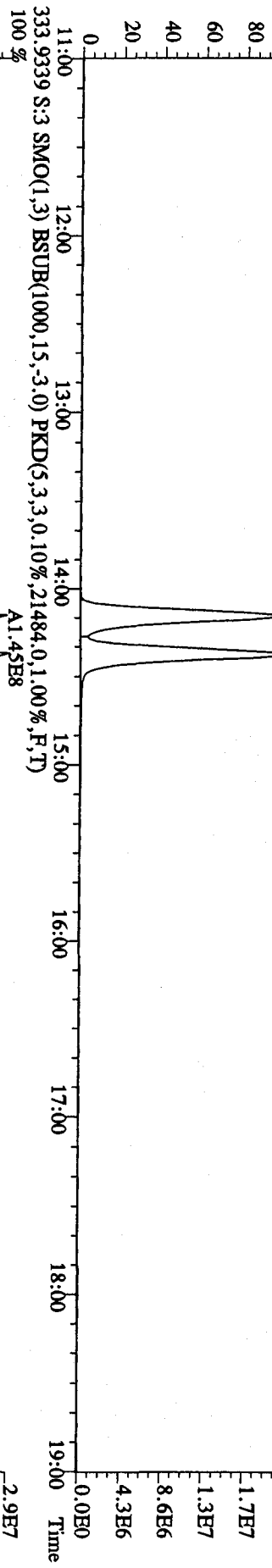
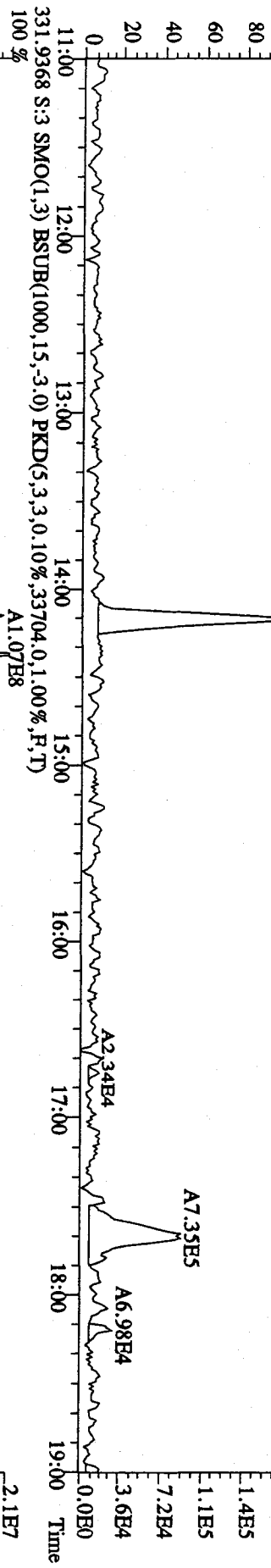
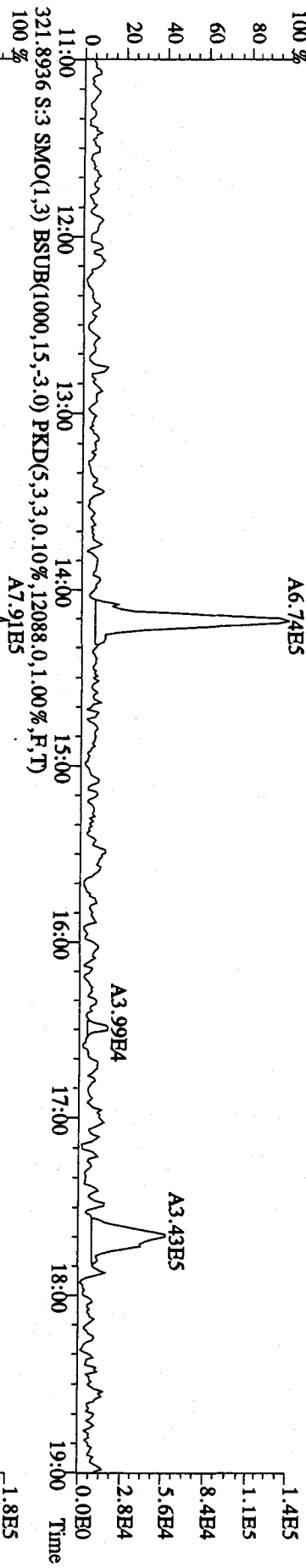
- 1 Peak not found
- 2 Rear chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst AA Date 1/5/10



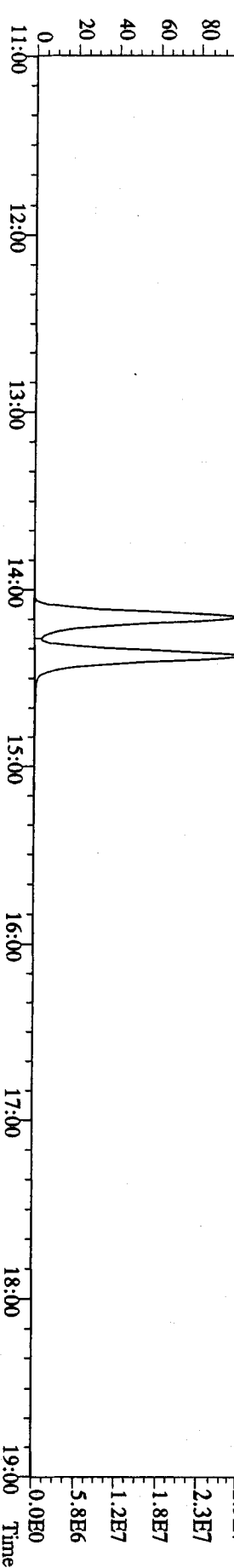
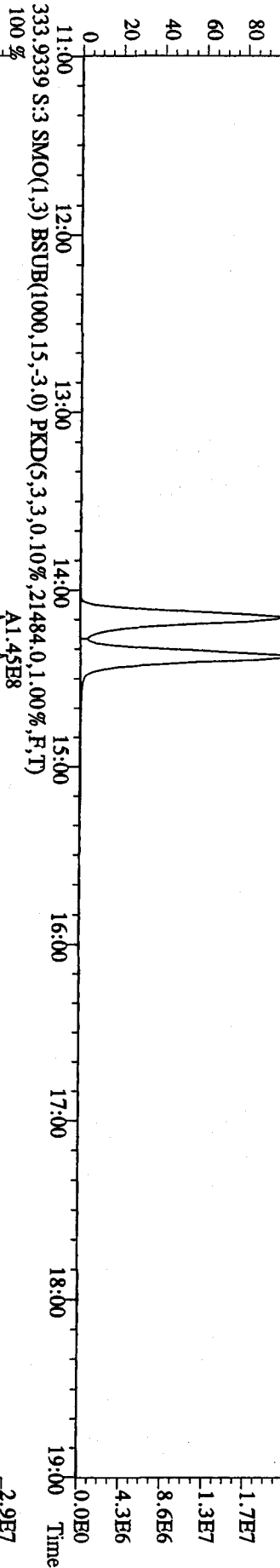
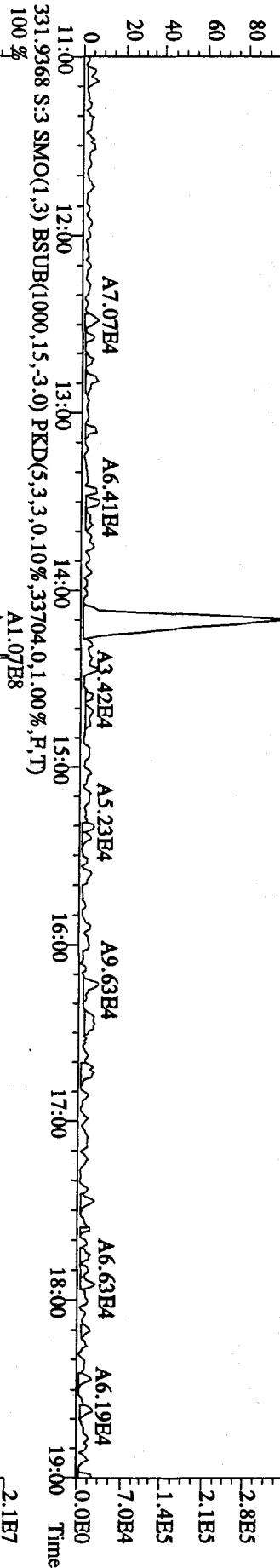
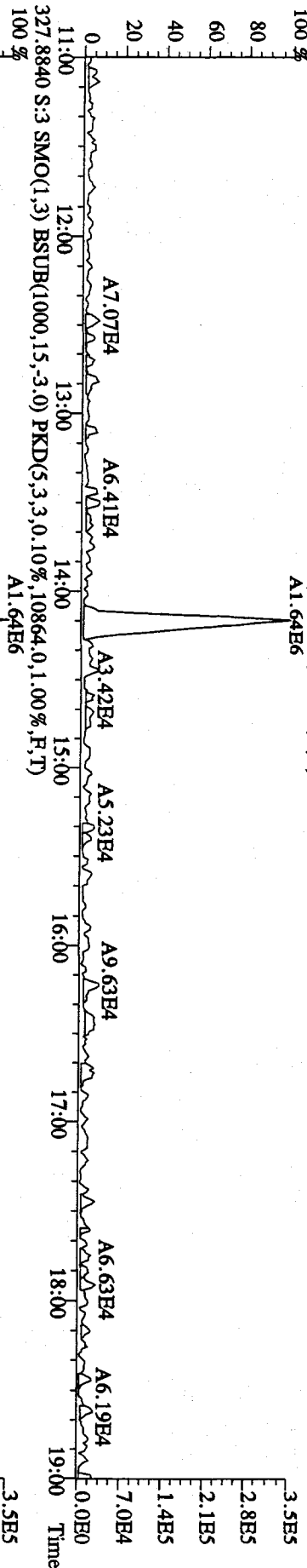
File:04\A10B5D2 #1-1242 Acq: 4-JAN-2010 22:54:06 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST0104D :CS-1 09DXN422 Exp:DB225

319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9380.0,1.00%,F,T)
 A6.74E5

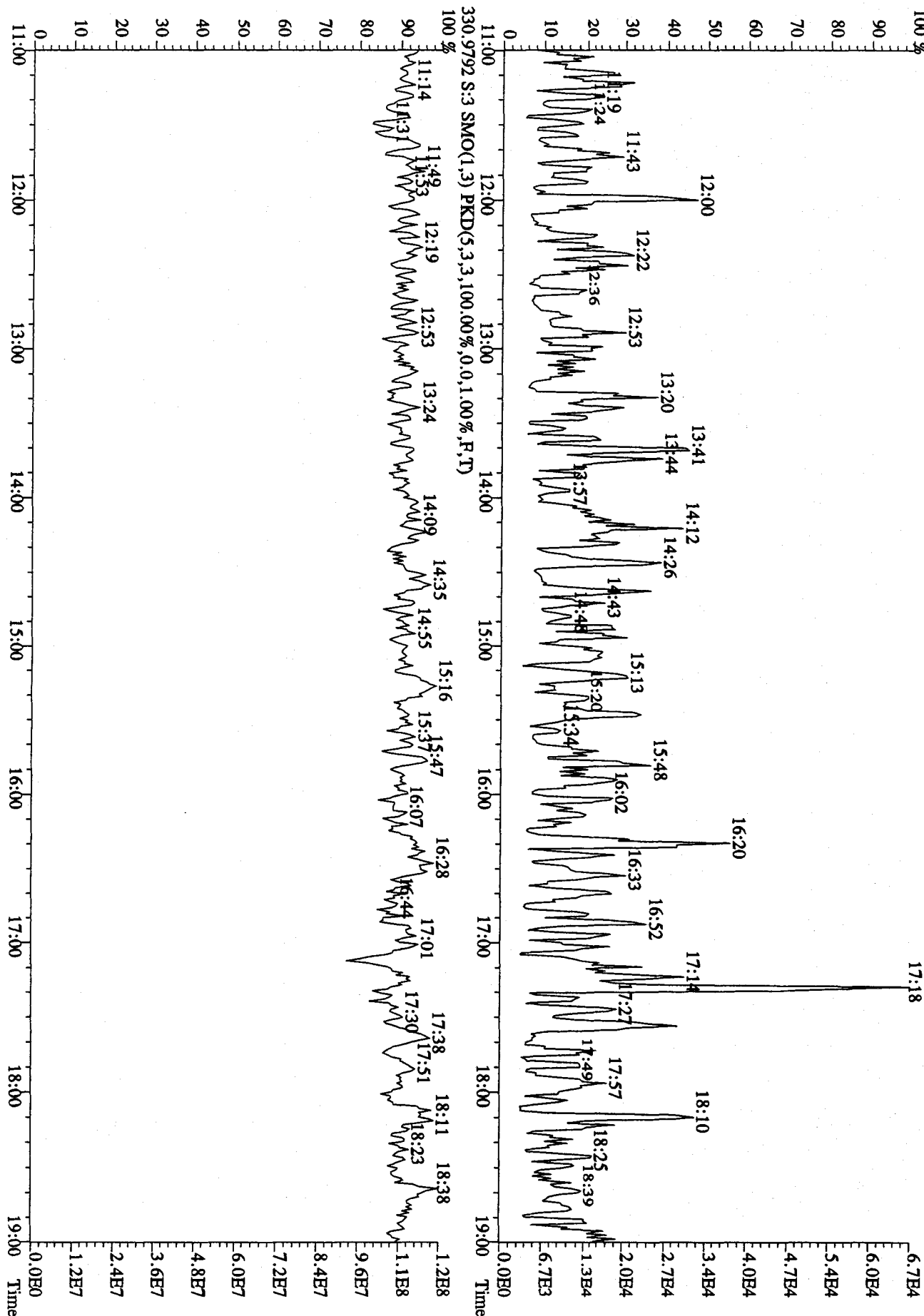


File:04JA10B5D2 #1-1242 Acq: 4-JAN-2010 22:54:06 GC EI+ Voltage SIR 70SE
Sample#3 Tex:ST0104D :CS-1 09DXN422 Exp:DB225

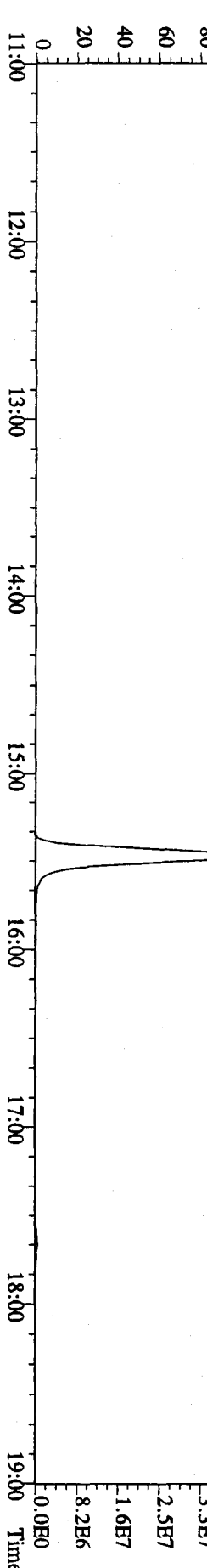
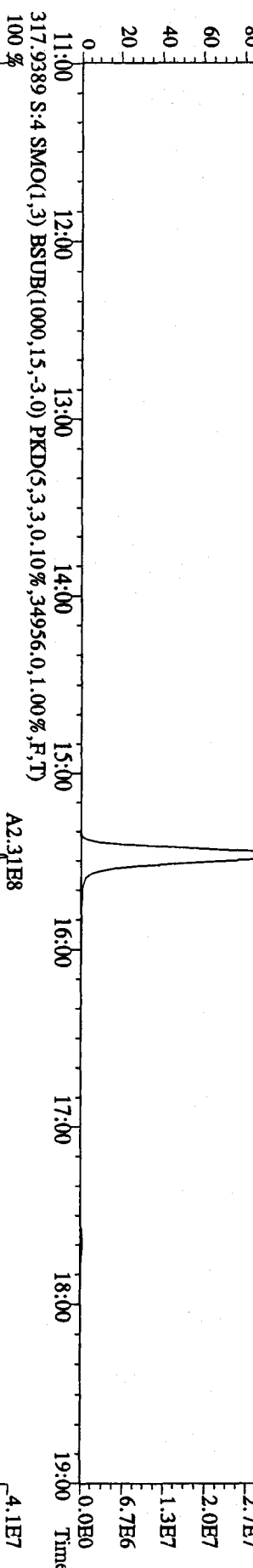
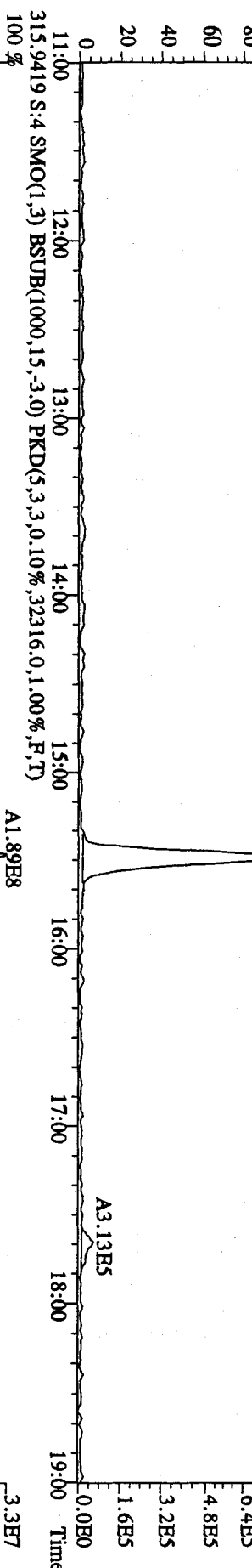
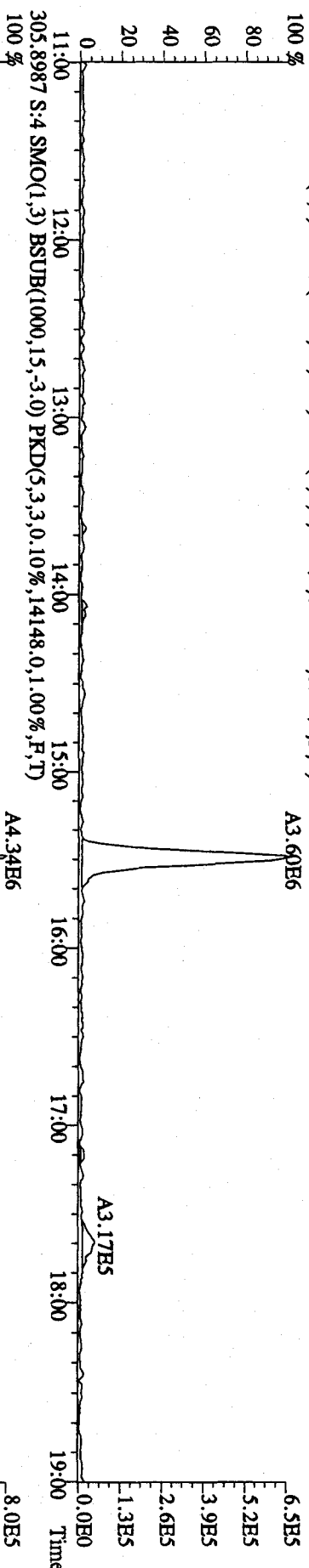
327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10864,0,1.00%,F,T)
A1.64E6



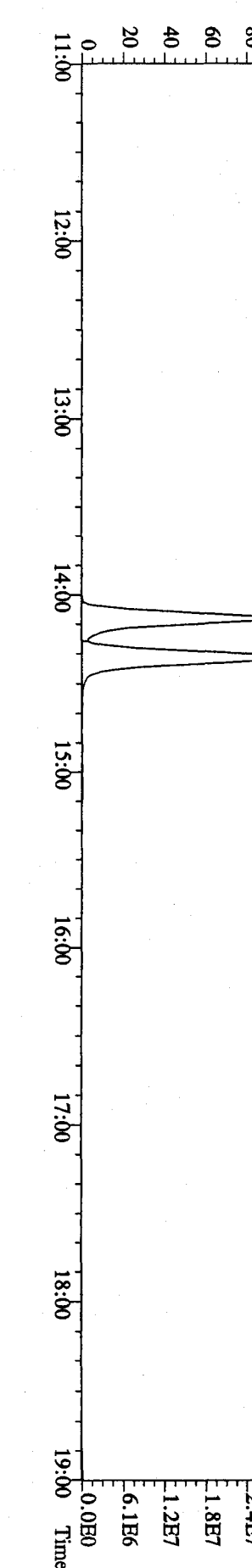
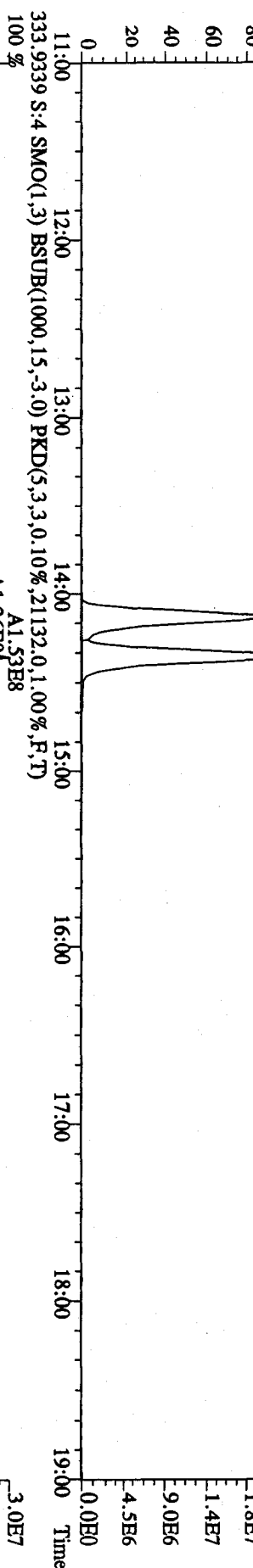
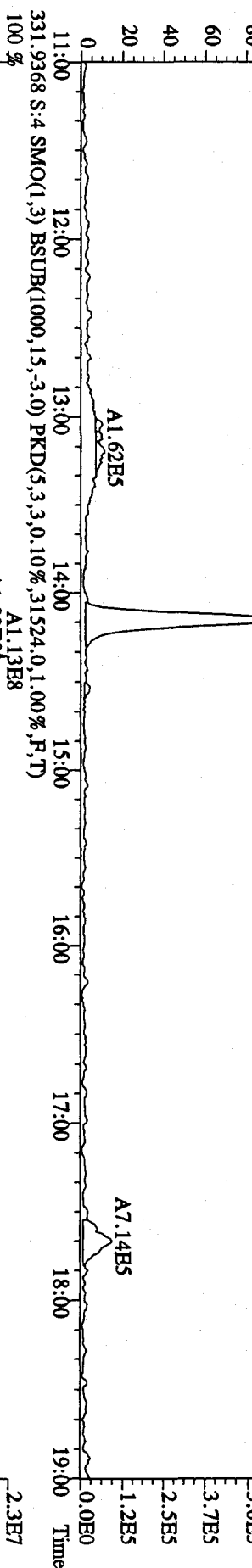
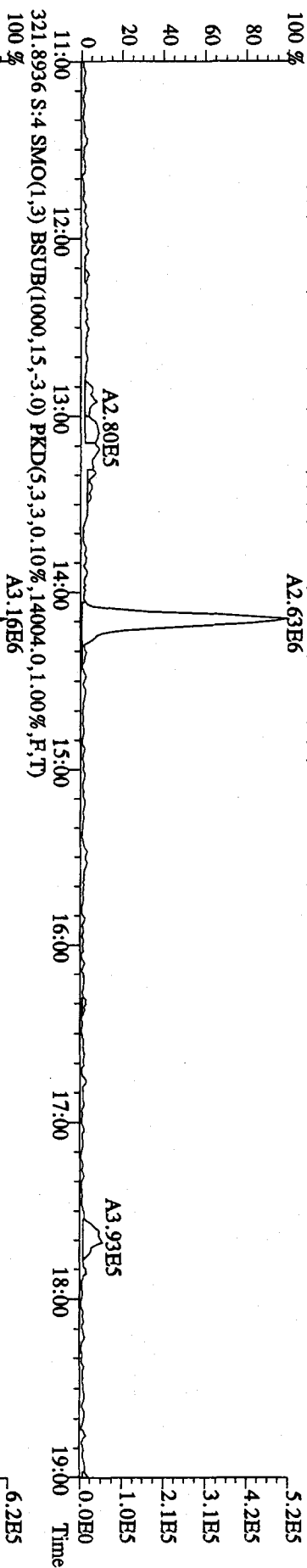
File:041A10B5D2 #1-1242 Acq: 4-JAN-2010 22:54:06 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST0104D :CS-1 09DXN422 Exp:DB225
 375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,10952.0,1.00%,F,T)



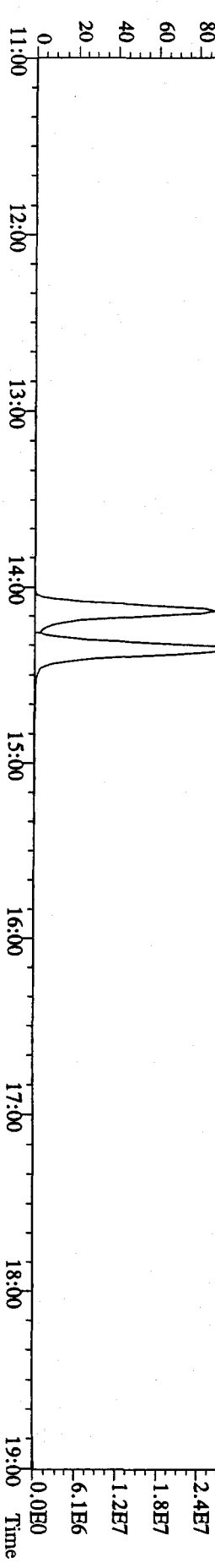
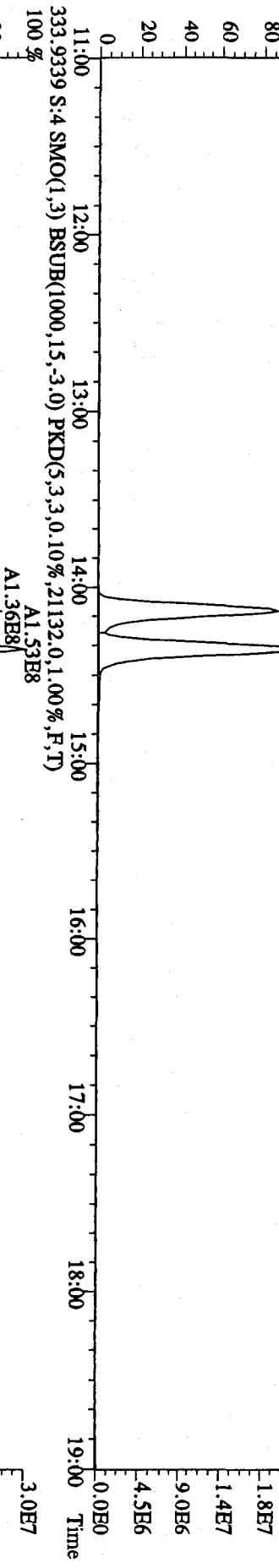
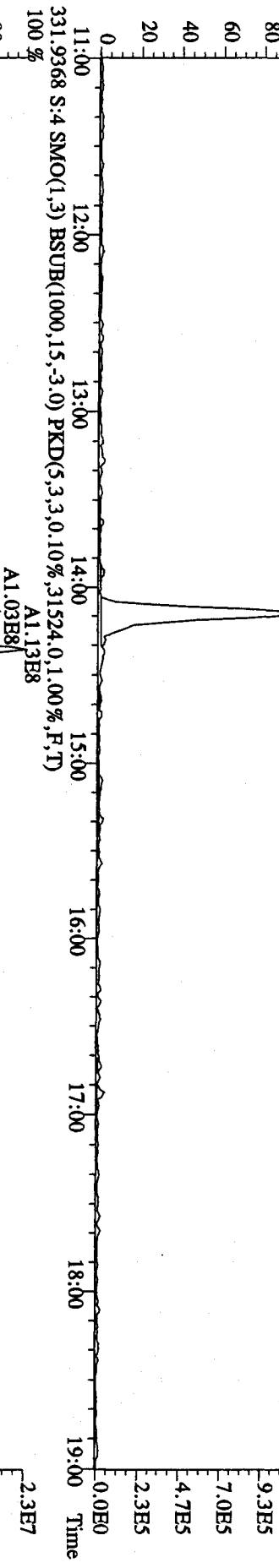
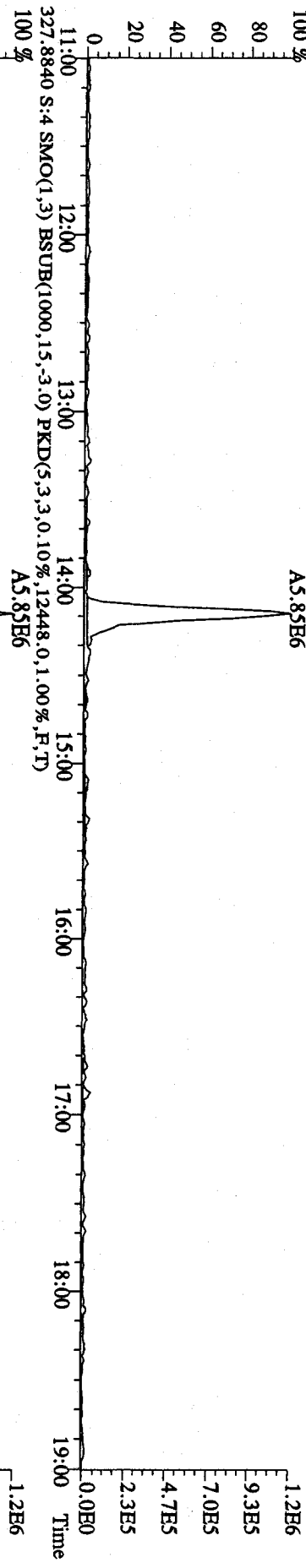
File:041A10B5D2 #1-1242 Acq: 4-JAN-2010 23:31:09 GC EI+ Voltage SIR 70SB
 Sample#4 Text:ST0104E :CS-2 09DXN423 Exp:DB225
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,111168,0,1.00%,F,T)
 100 %



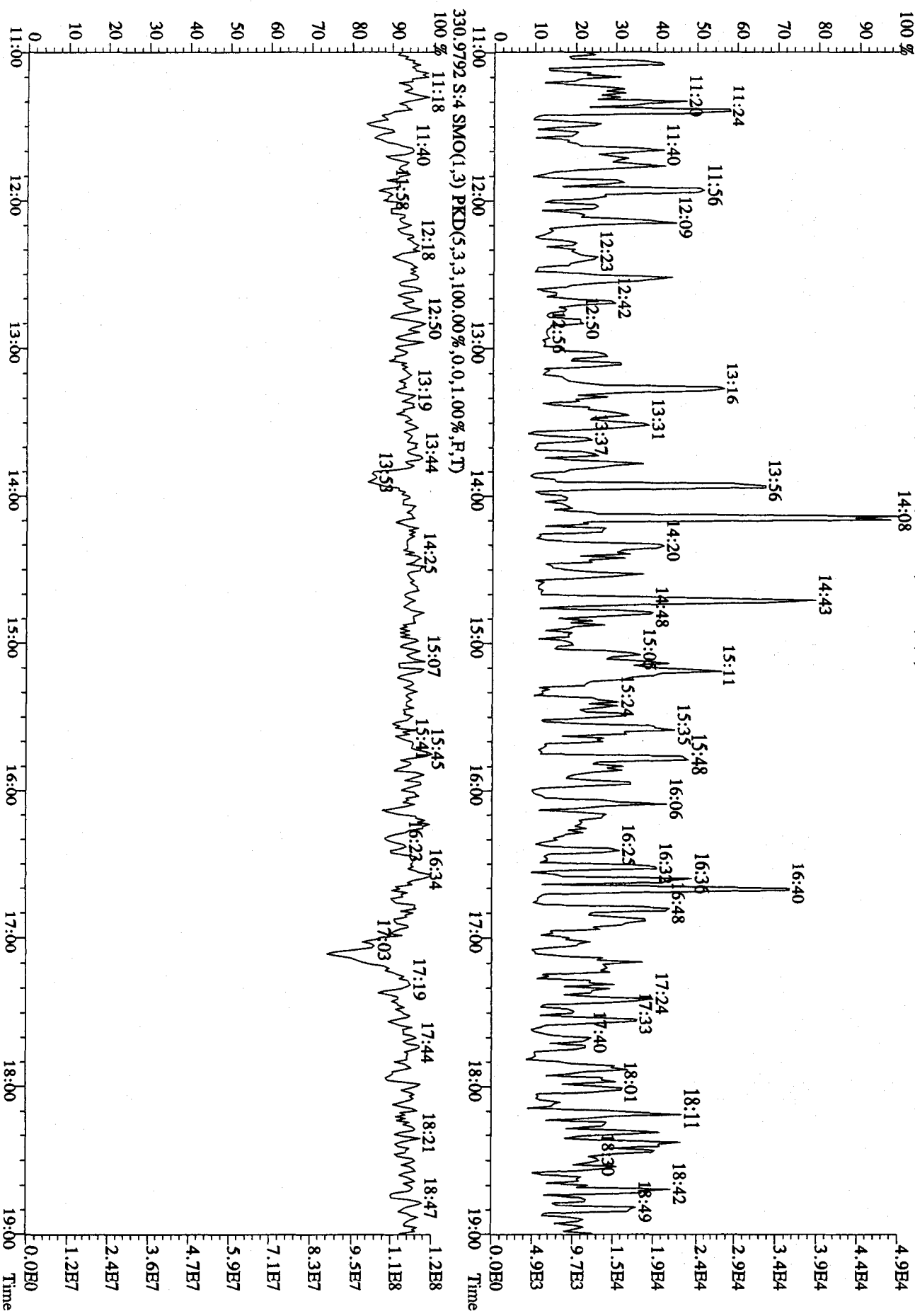
File:041A10B5D2 #1-1242 Acq: 4-JAN-2010 23:31:09 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST0104E :CS-2 09DXN423 Exp:DB225
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.8672,0,1.00%,F,T) 100% A2.63E6



File:041A10B5D2 #1-1242 Acq: 4-JAN-2010 23:31:09 GC EI + Voltage SIR 70SE
 Sample#4 Text:ST0104E :CS-2 09DXN423 Exp:DB225
 327.8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12448,0,1.00%,F,T)
 A5.85E6



File:041A10B5D2 #1-1242 Acq: 4-JAN-2010 23:31:09 GC EI + Voltage SIR 70SE
 Sample#4 Text:STO104E :CS-2 09DXN423 Exp:DB225
 375.8364 S:4 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,100.00%,13204,0,1.00%,F,T)
 100% 14:08

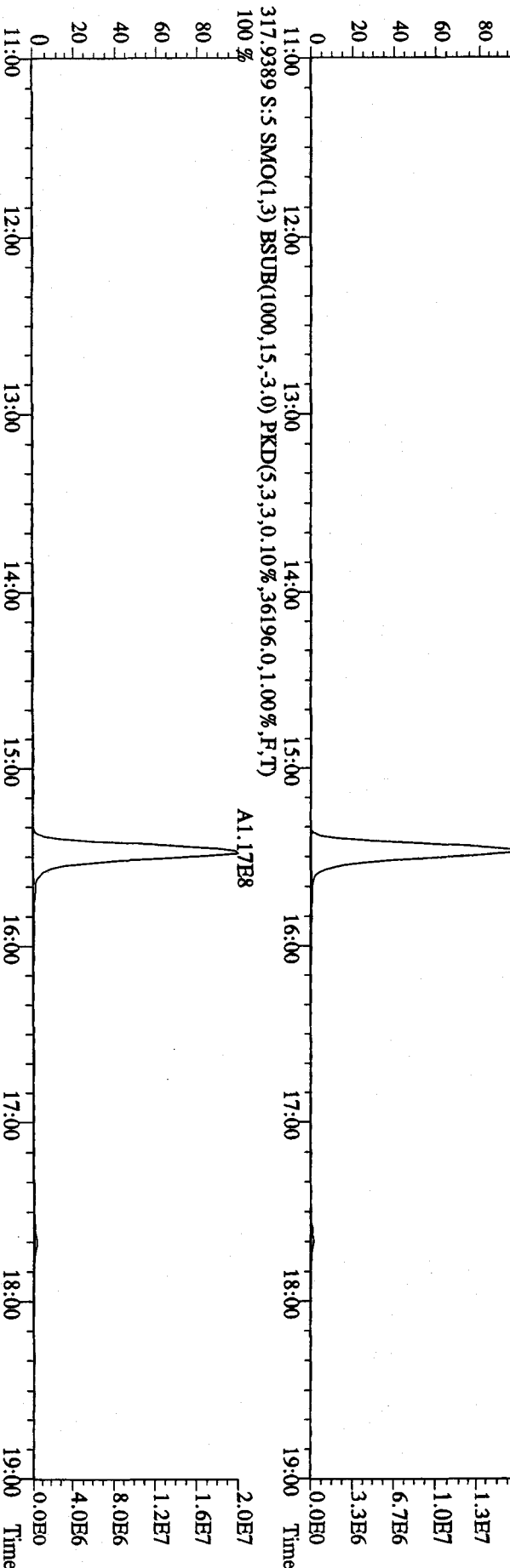
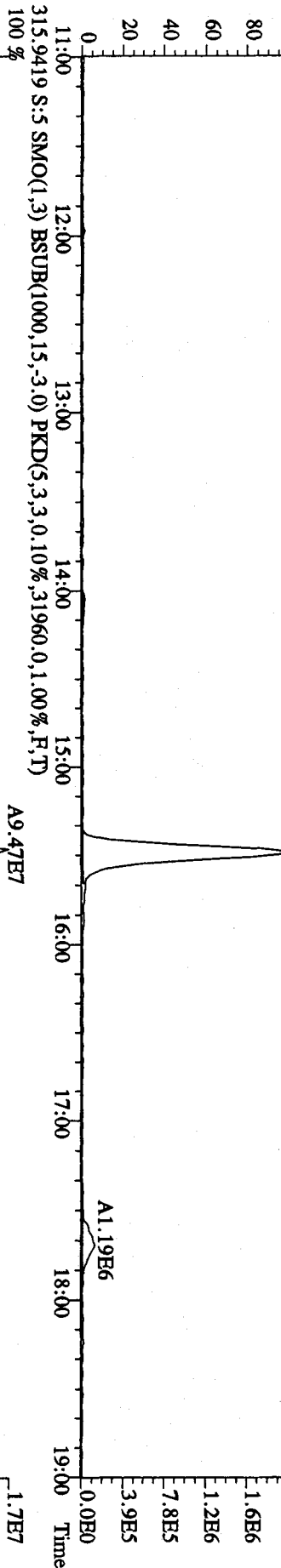
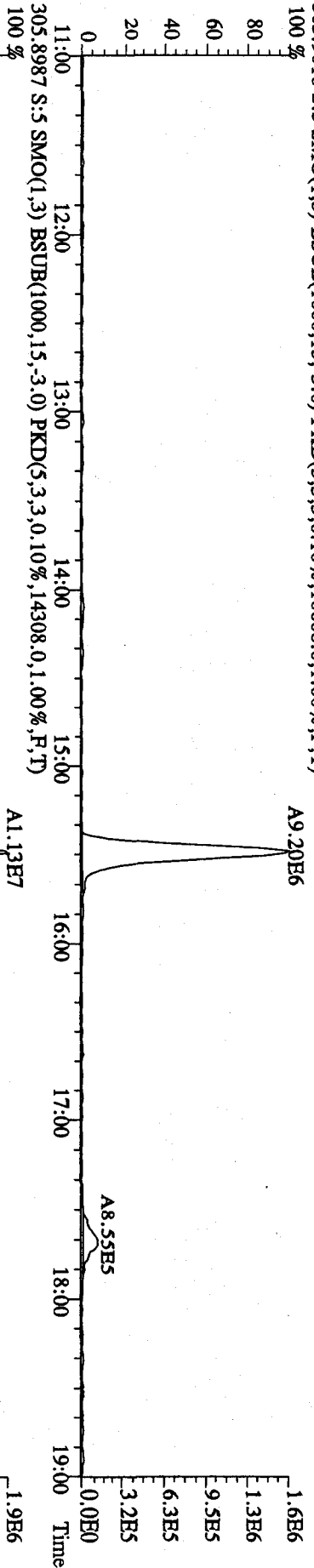


File:04JA10B5D2 #1-1242 Acq: 5-JAN-2010 00:08:17 GC EI+ Voltage SIR 70SE

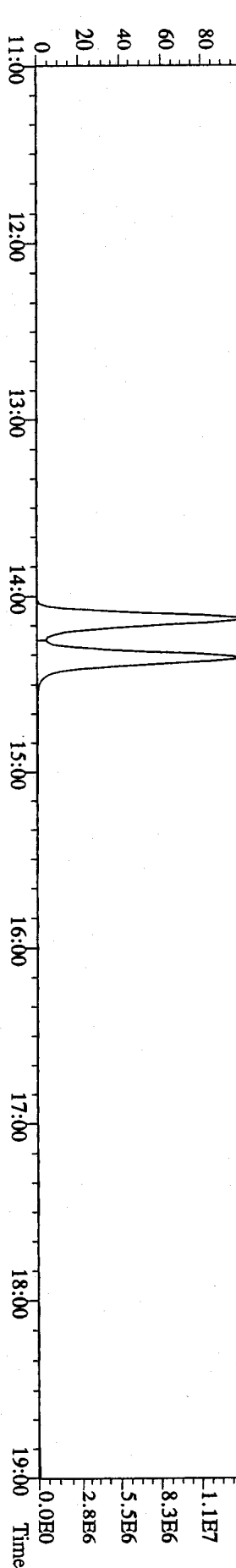
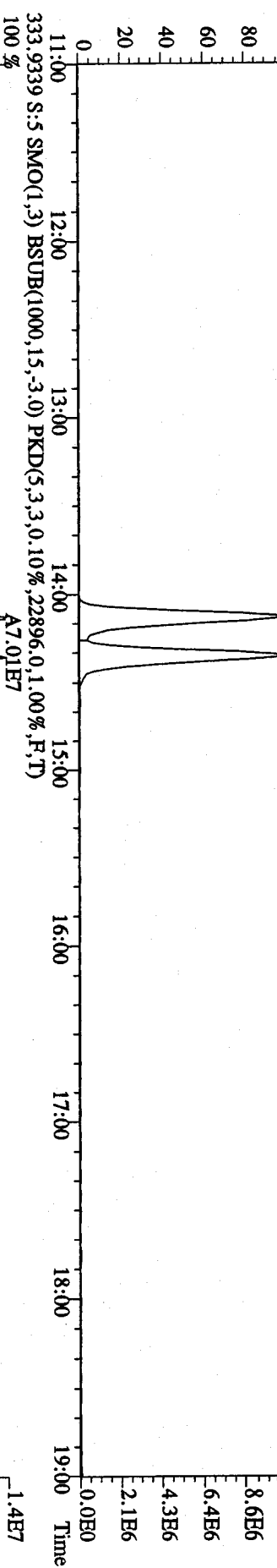
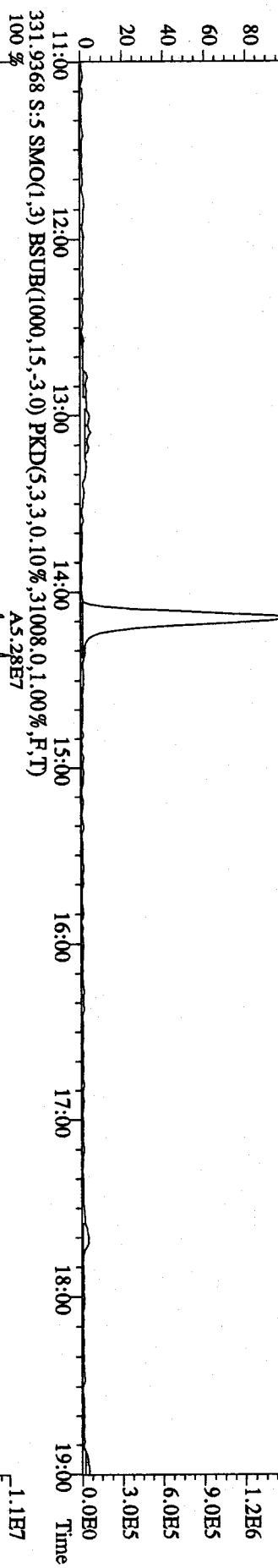
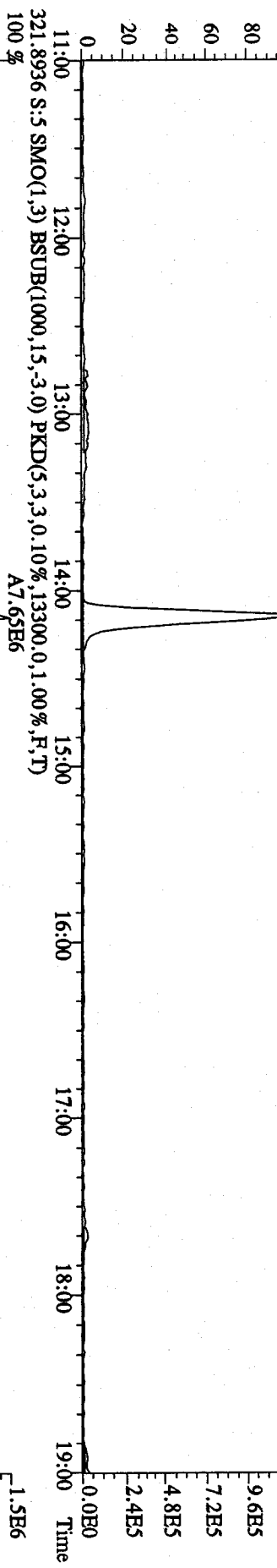
Sample#5 Text:ST0104F :CS-3 09DXN425 Exp:DB225

303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,14308,0,1,00%,F,T)

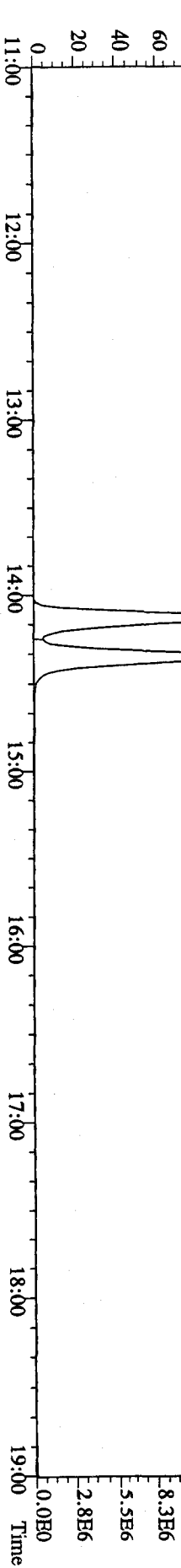
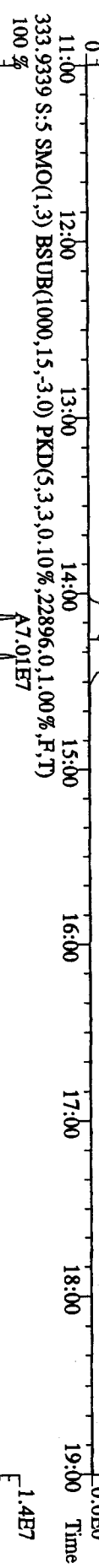
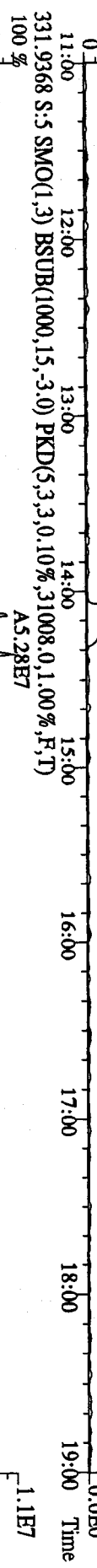
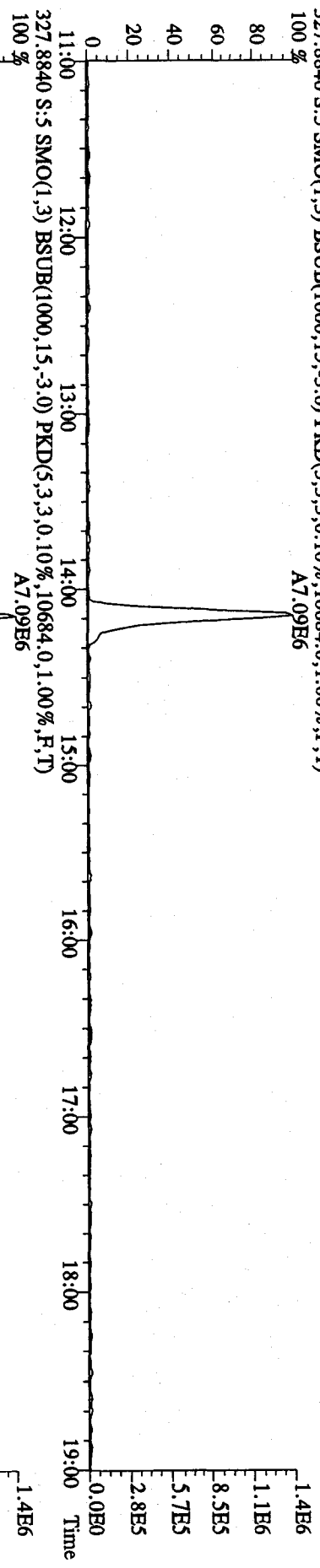
100%



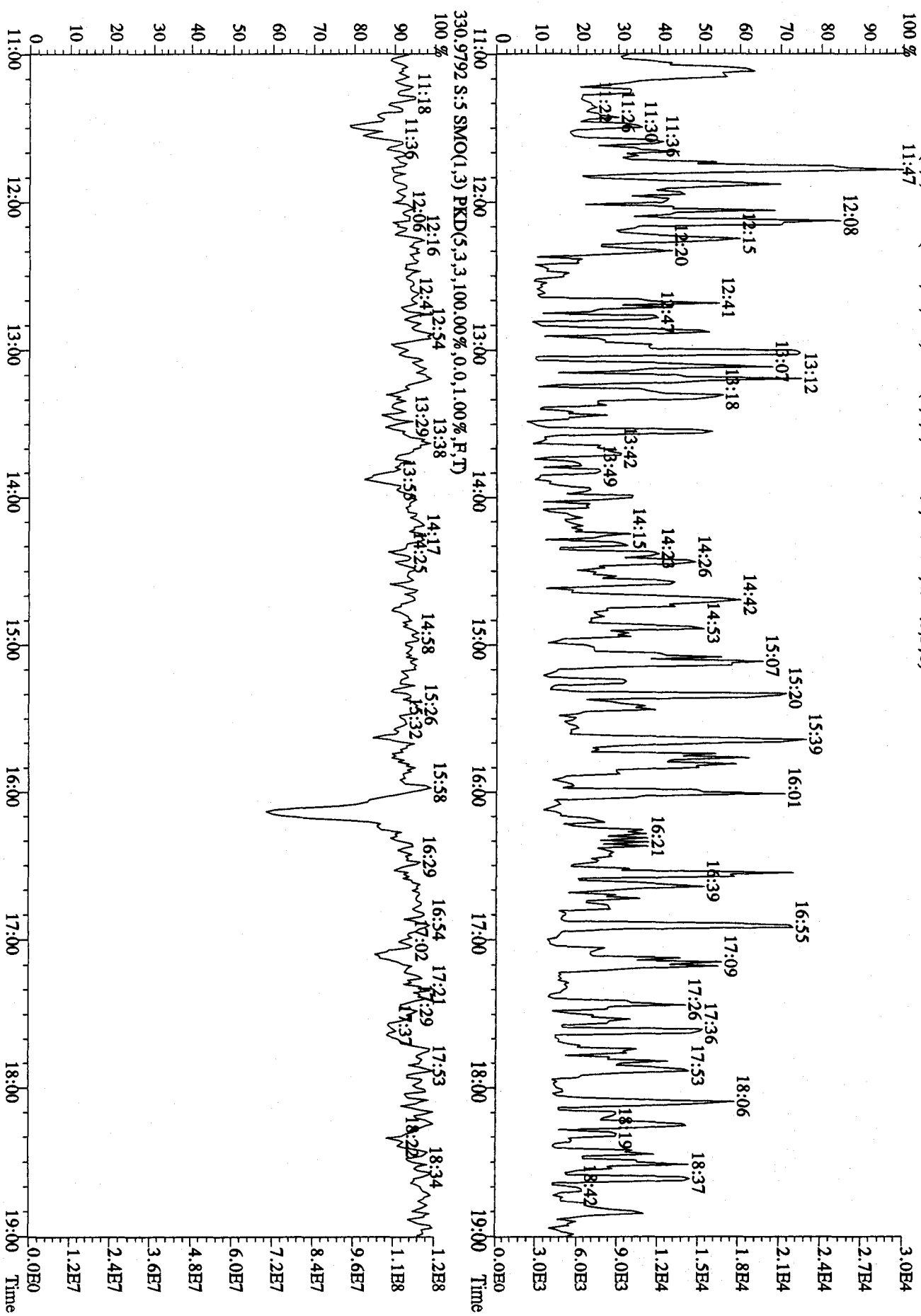
File:041A10B5D2 #1-1242 Acq: 5-JAN-2010 00:08:17 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST0104F :CS-3 09DXN425 Exp:DB225
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9924.0,1.00%,F,T) A6.02E6
 100%



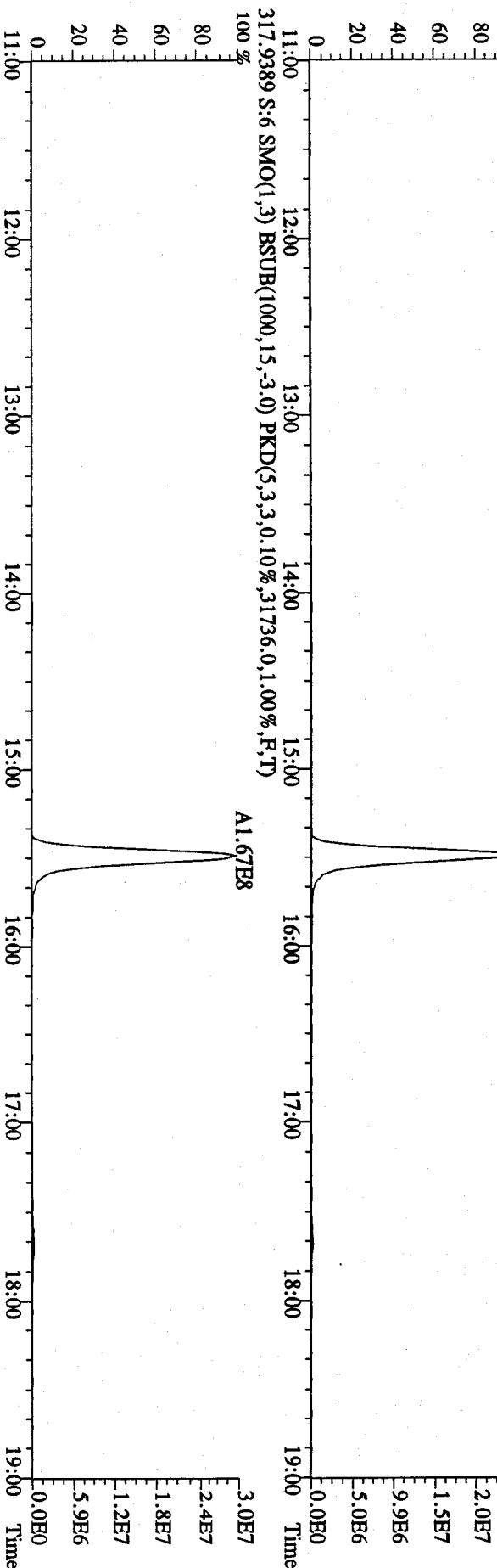
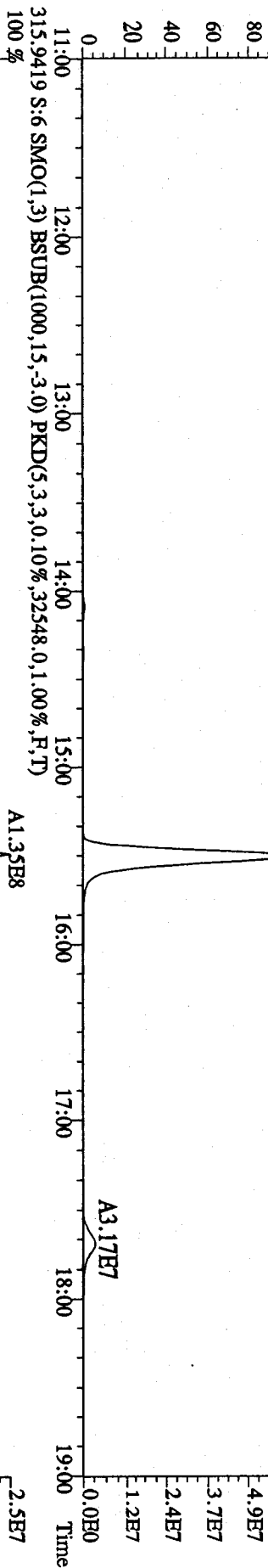
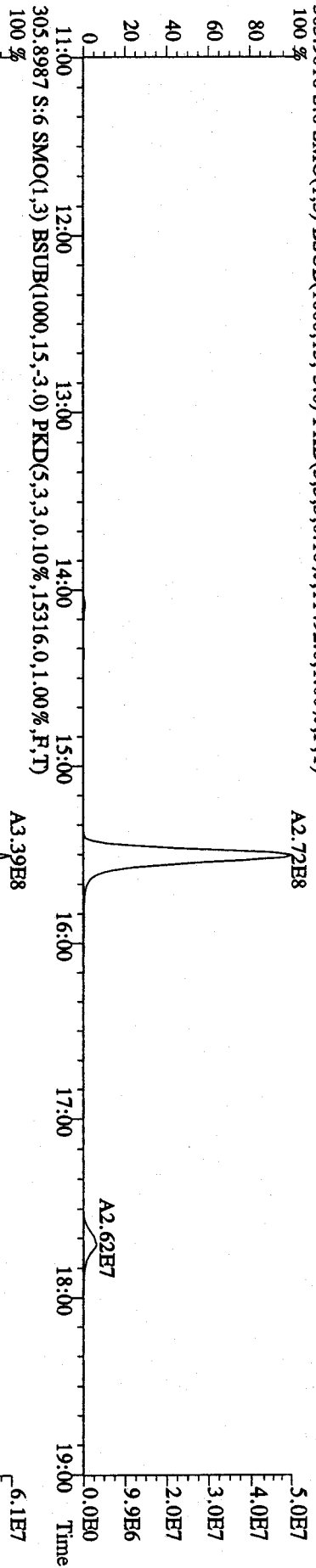
File:041A10B5D2 #1-1242 Acq: 5-JAN-2010 00:08:17 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST0104F :CS-3 09DXN425 Exp:DB225
 327.8840 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10684,0,1,00%,F,T)
 A7.09E6



File:04JA10B5D2 #1-1242 Acq: 5-JAN-2010 00:08:17 GC EI+ Voltage SIR 70SE
 Sample#5 Text:ST0104F :CS-3 09DXN425 Exp:DB225
 375.8364 S.S SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,10704.0,1.00%,F,T)
 11:47



File: 041A10B5D2 #1-1242 Acq: 5-JAN-2010 00:45:19 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST0104G :CS-5 09DXN456 Exp:DB225
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11492.0,1.00%,F,T)
 100%



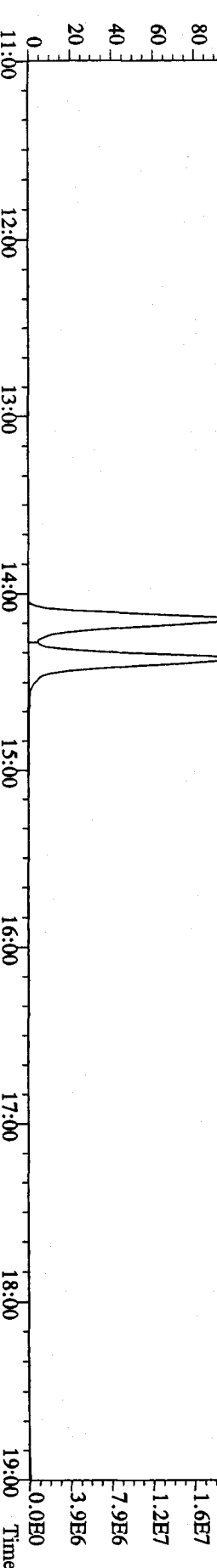
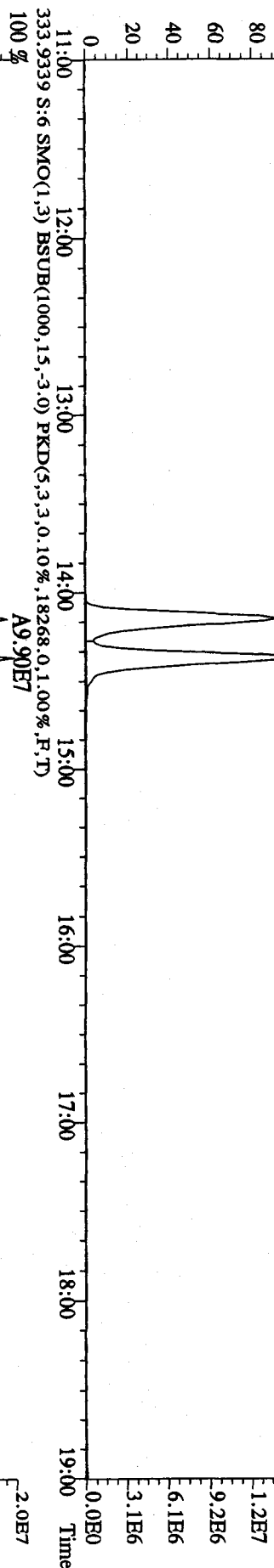
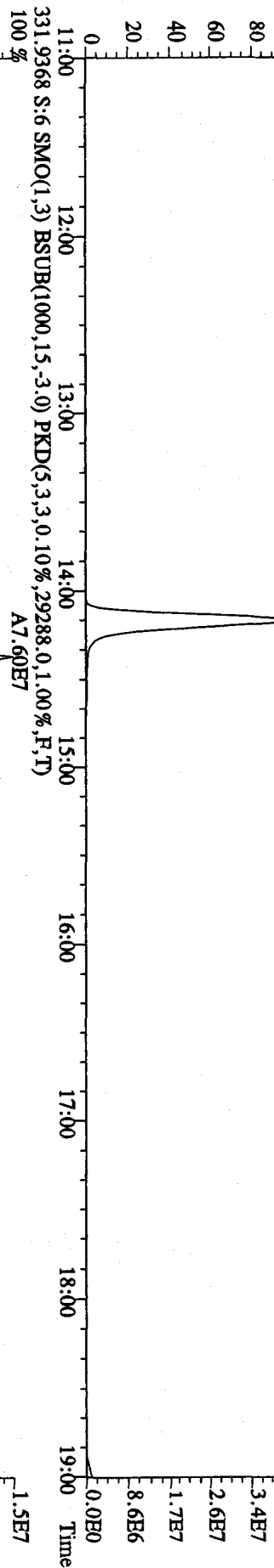
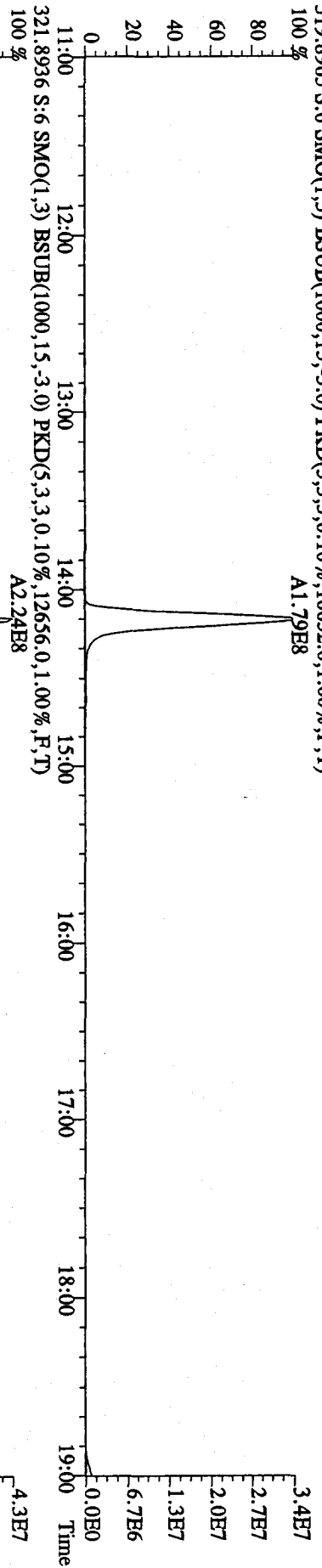
File:04JA10B5D2 #1-1242 Acq: 5-JAN-2010 00:45:19 GC EI + Voltage SIR 70SE

Sample#6 Text:ST0104G :CS-5 09DXN456

Exp:DB225

319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10652.0,1.00%,F,T)

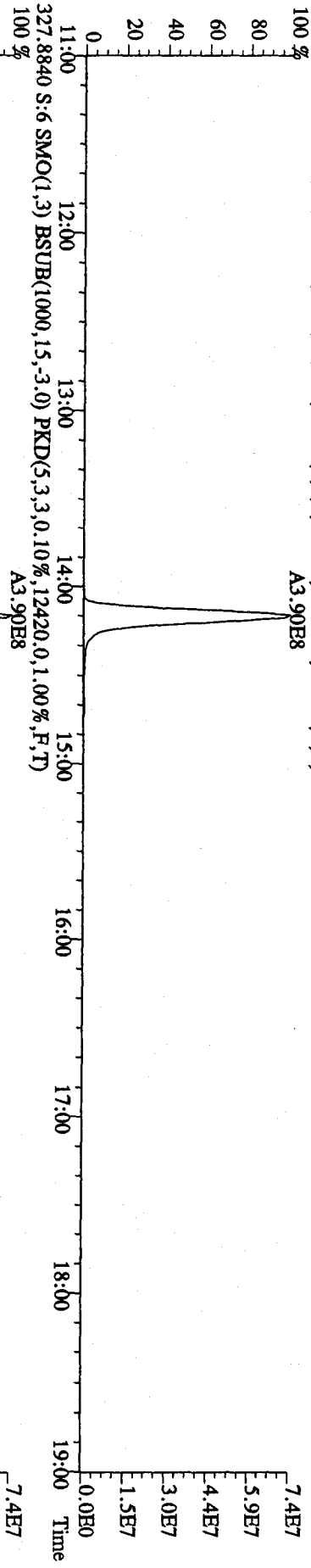
A1.79E8



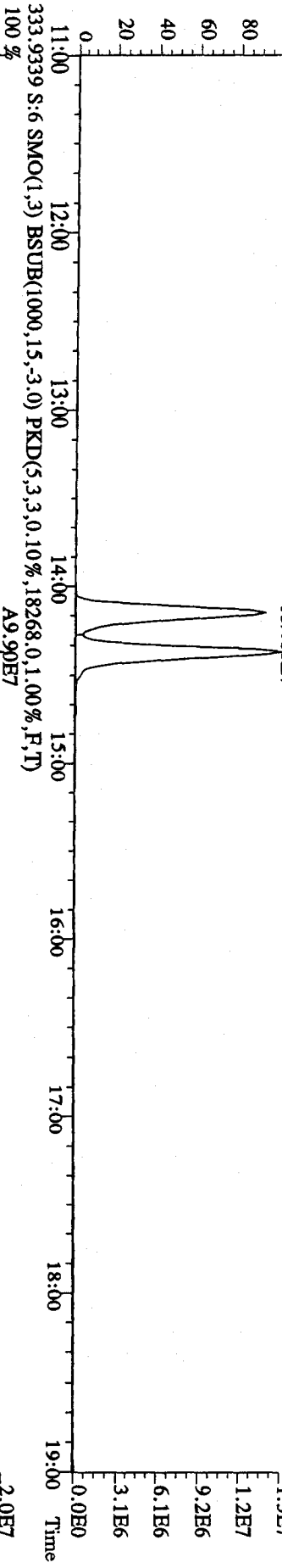
File:041A10B5D2 #1-1242 Acq: 5-JAN-2010 00:45:19 GC EI+ Voltage SIR 70SE

Sample#6 Text:ST0104G :CS-5 09DXN456 Exp:DB225

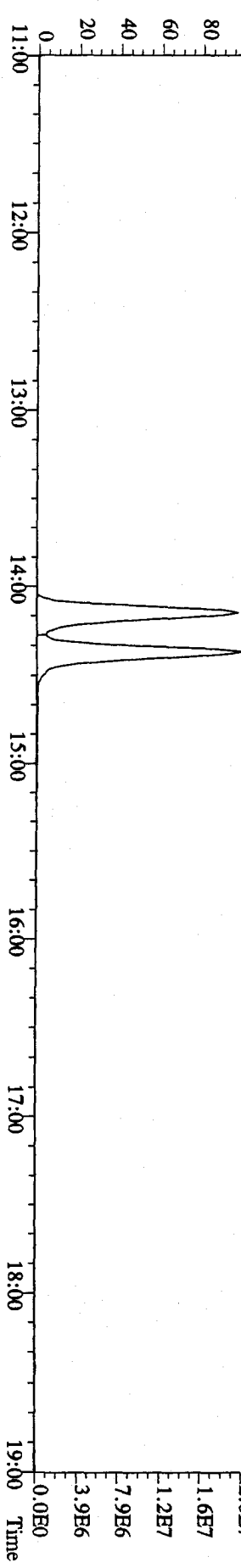
327.8840 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12420,0,1,00%,F,T) A3.90E8



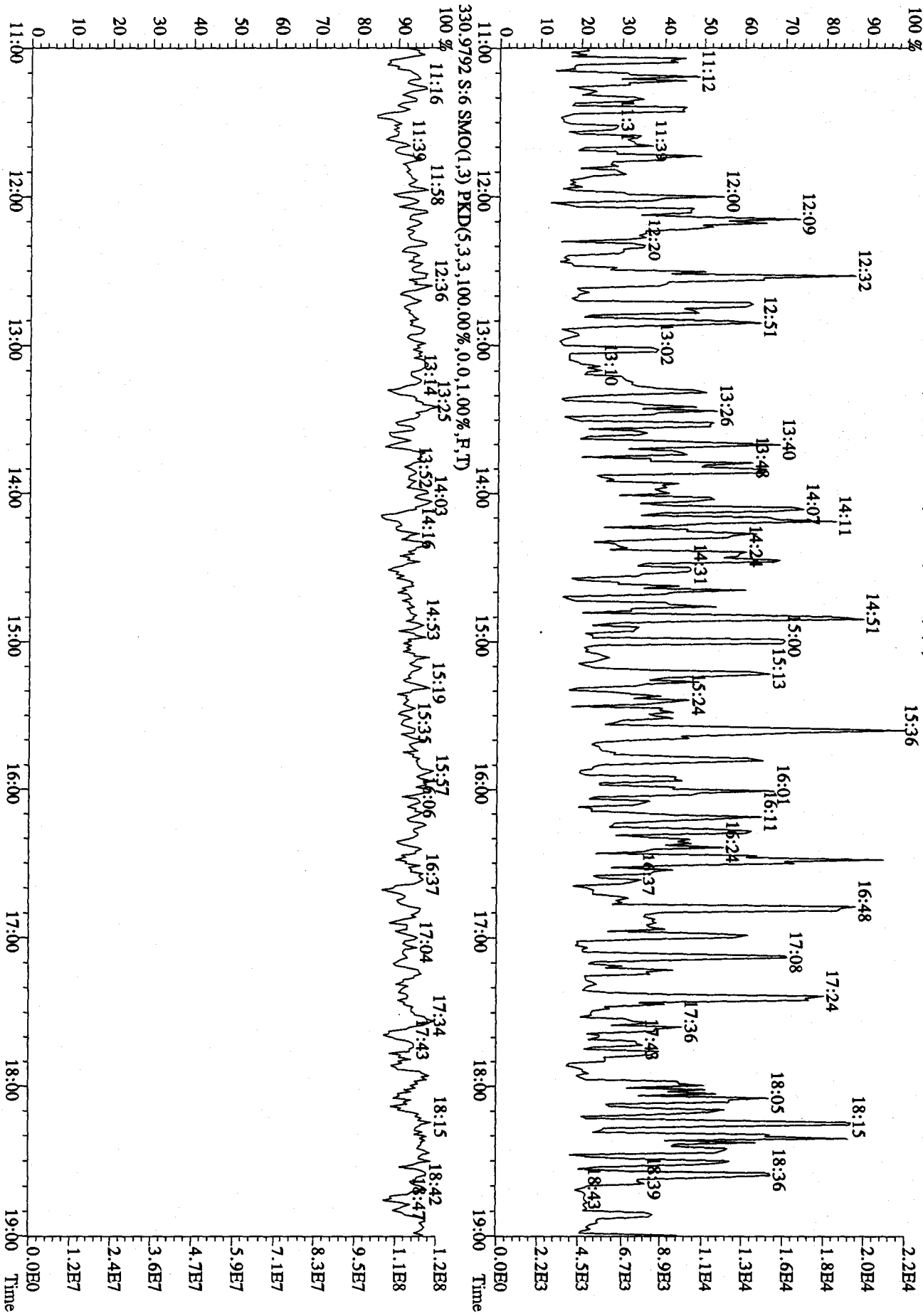
331.9968 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,29288,0,1,00%,F,T) A7.60E7



333.9939 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,18268,0,1,00%,F,T) A9.90E7



File:04JA10B5D2 #1-1242 Acq: 5-JAN-2010 00:45:19 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST0104G :CS-5 09DXN456 Exp:DB225
 375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,9432.0,1.00%,F,T)

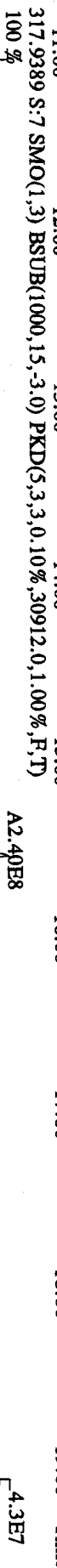
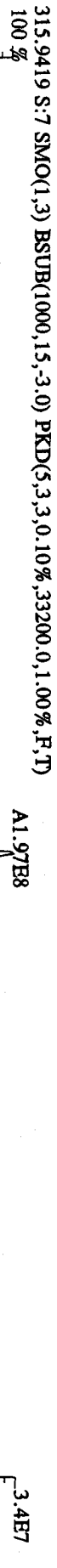
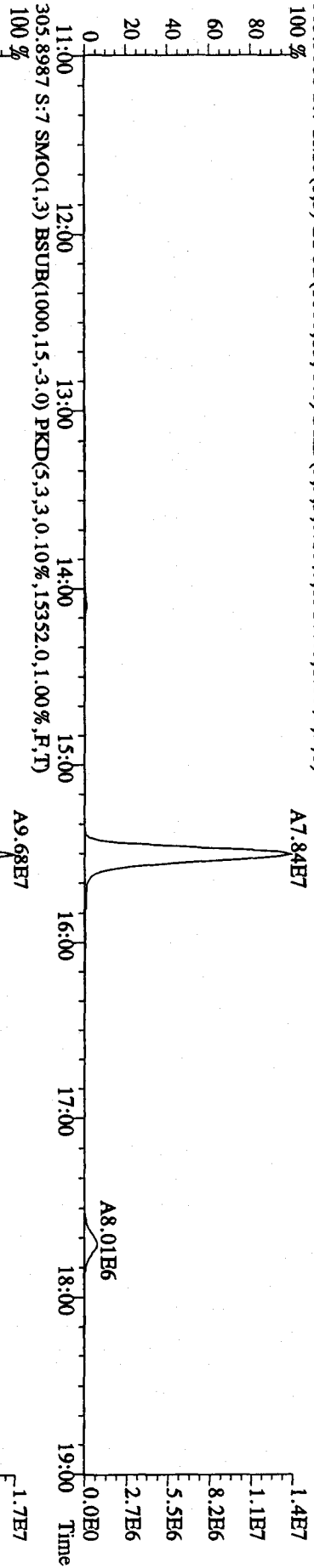


File:04J110BSD2 #1-1242 Acq: 5-JAN-2010 01:22:21 GC HF+ Voltage SIR 70SE

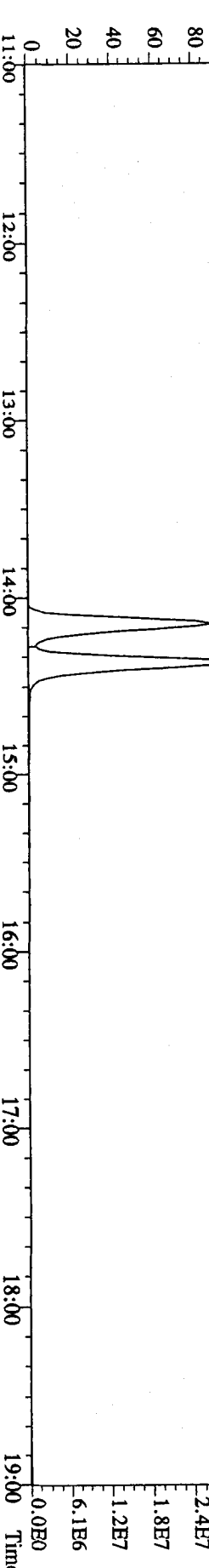
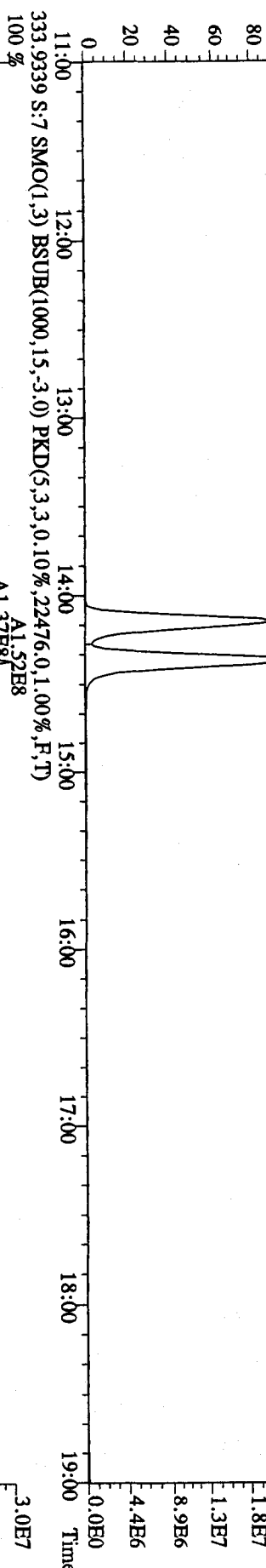
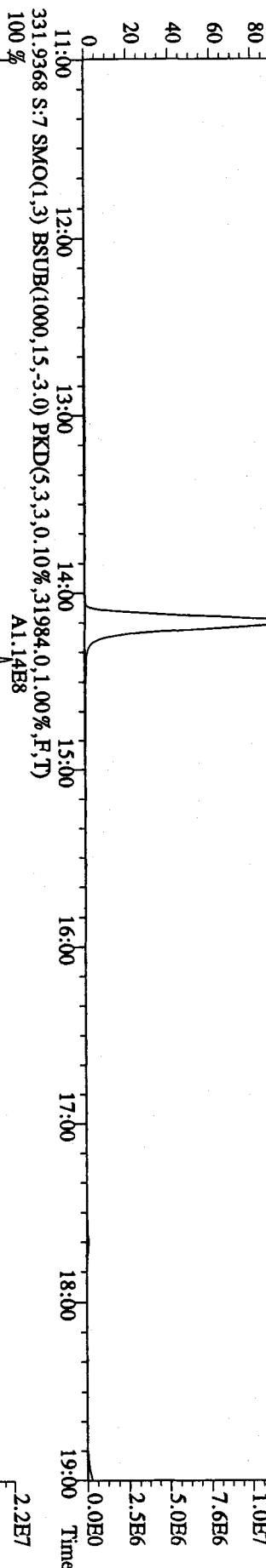
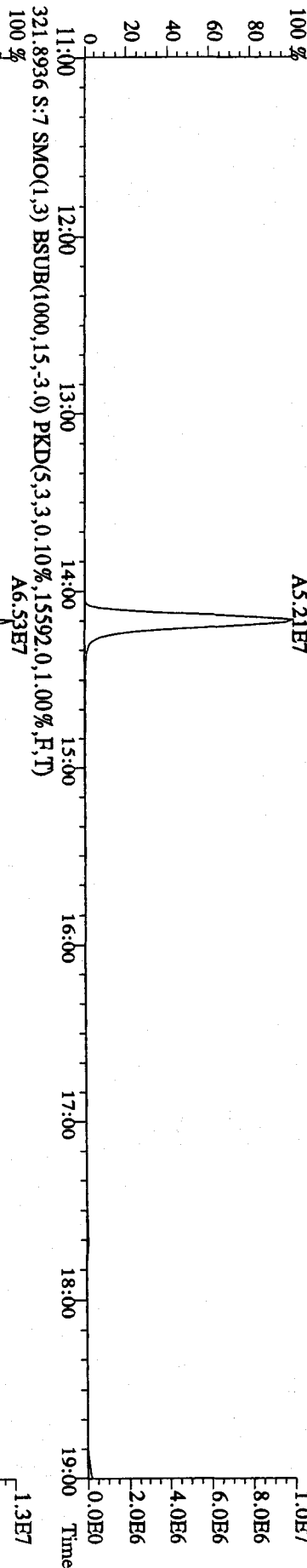
Sample#7 Text:ST0104H :CS-4 09DXN426 Exp:DB225

303.9016 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,13168,0,1,00%,F,T)

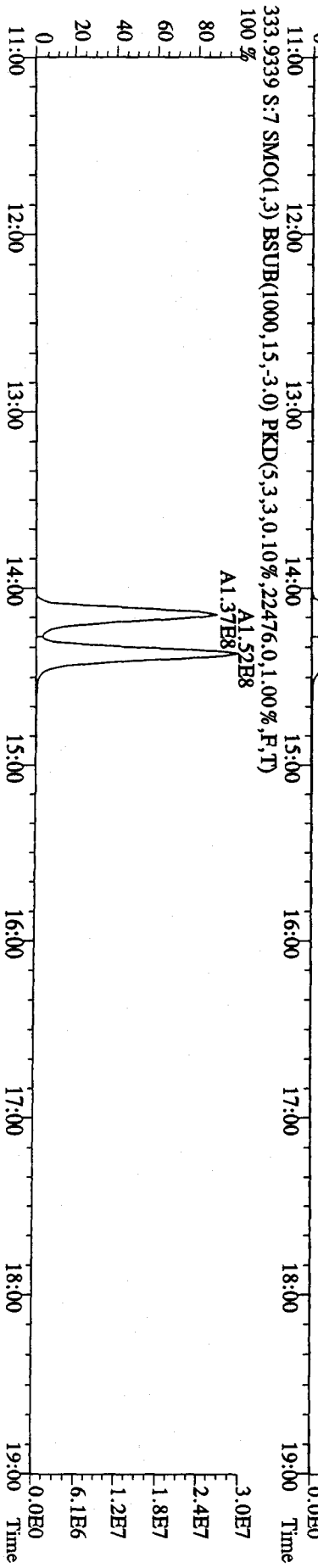
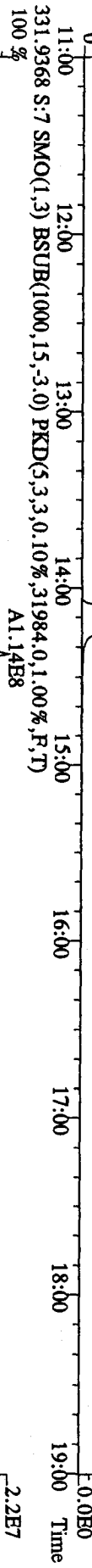
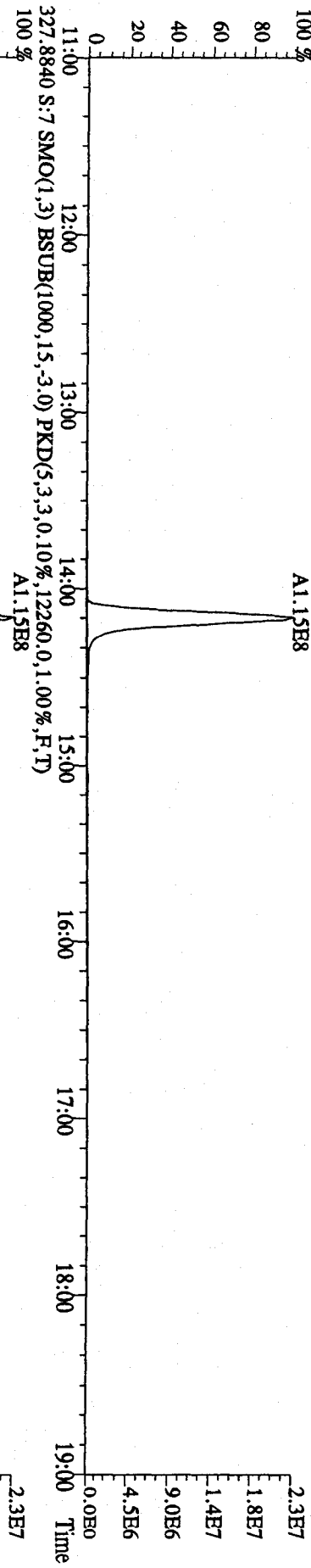
100 %



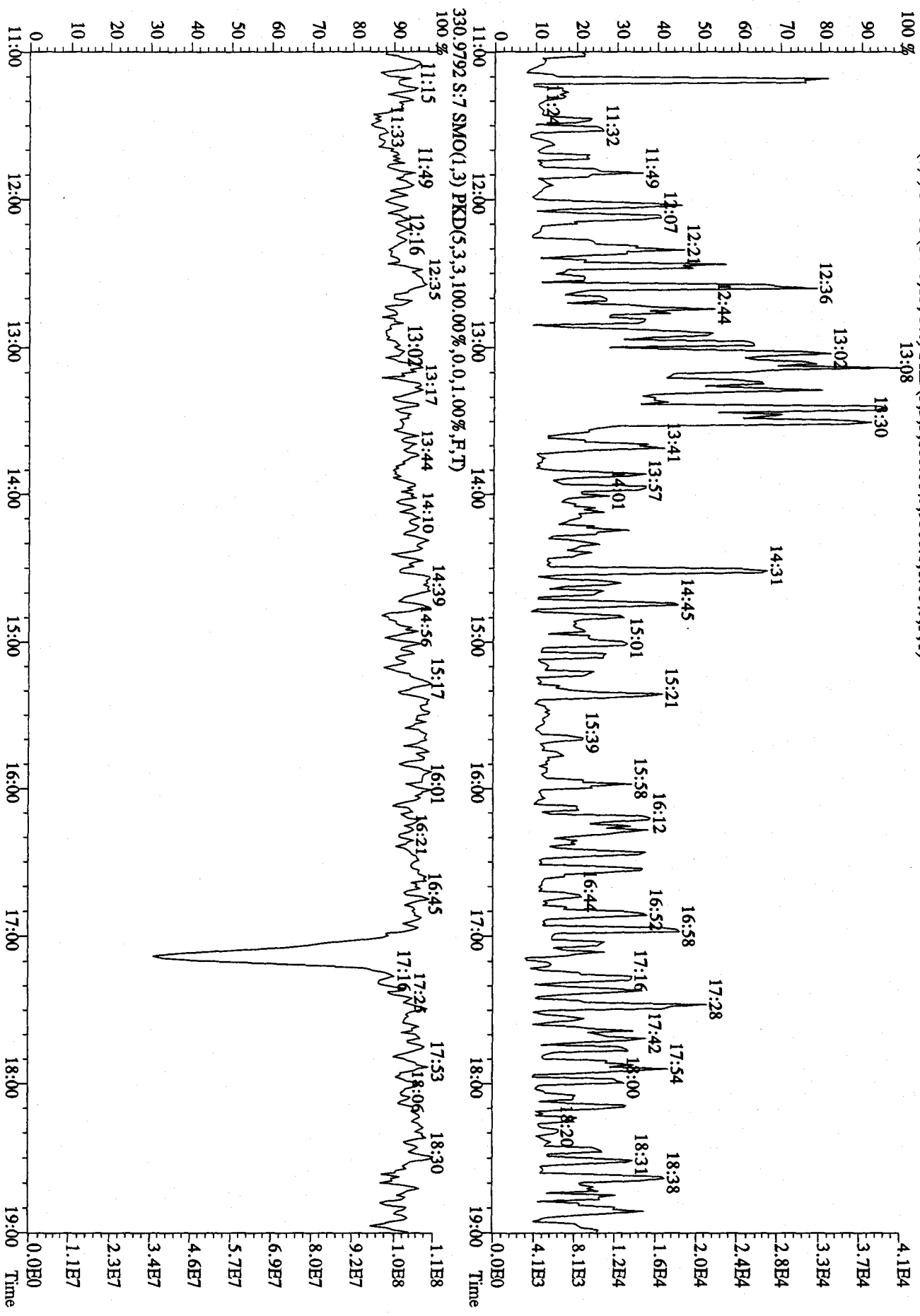
File:04JA10B5D2 #1-1242 Acq: 5-JAN-2010 01:22:21 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST0104H :CS-4 09DYN426 Exp:DB225
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3.0,10%,10976.0,1.00%,F,T)
 100% A3.21E7



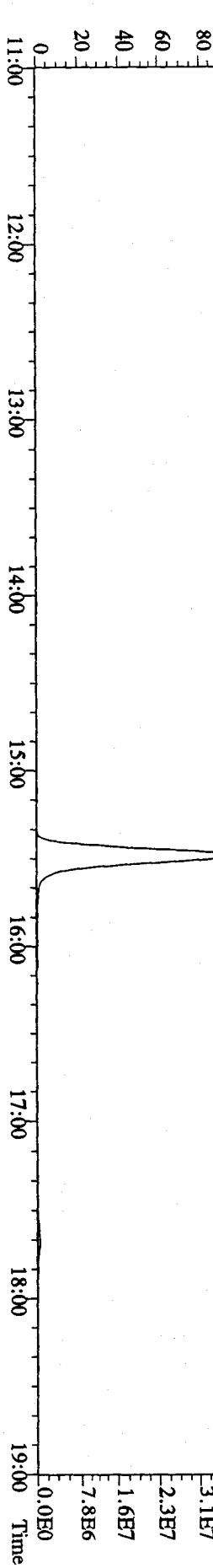
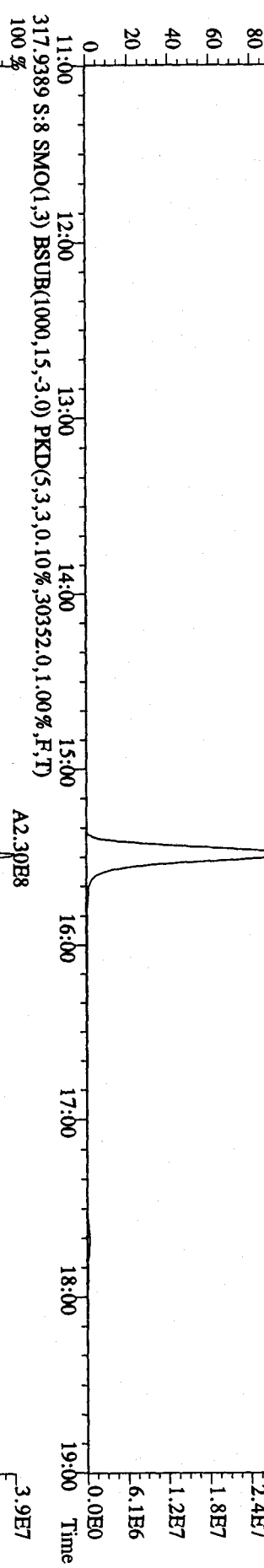
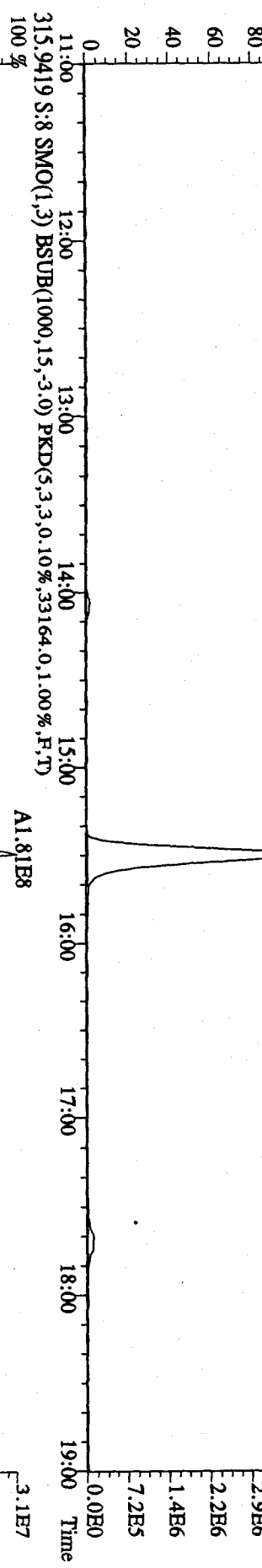
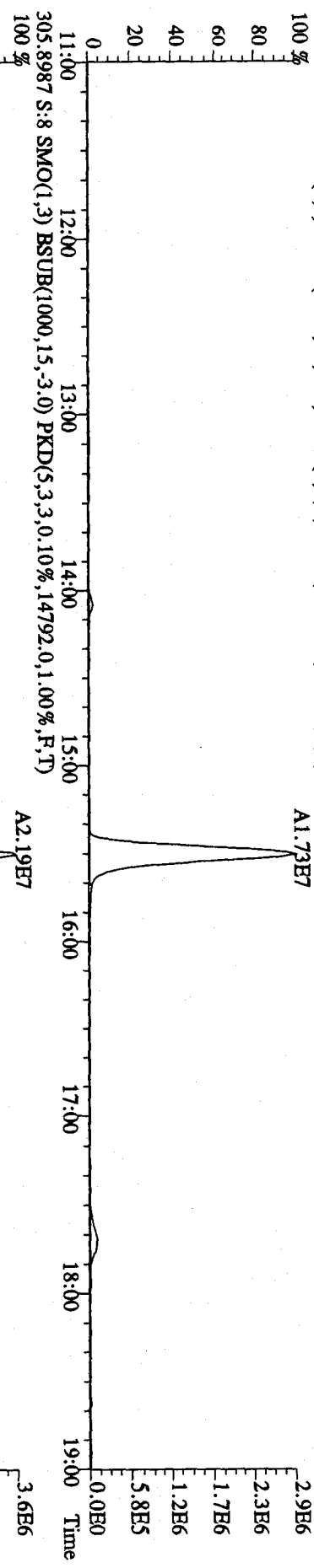
File:041A10B5D2 #1-1242 Acq: 5-JAN-2010 01:22:21 GC BI+ Voltage SIR 70SE
 Sample#7 Text:ST0104H :CS-4 09DXN426 Exp:DB225
 327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12260,0,1,00%,F,T) A1.15E8
 100%



File:041A10B5D2 #1-1242 Acq: 5-JAN-2010 01:22:21 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST0104H :CS-4 09DXN426 Exp:DB225
 375.8364 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 13:08



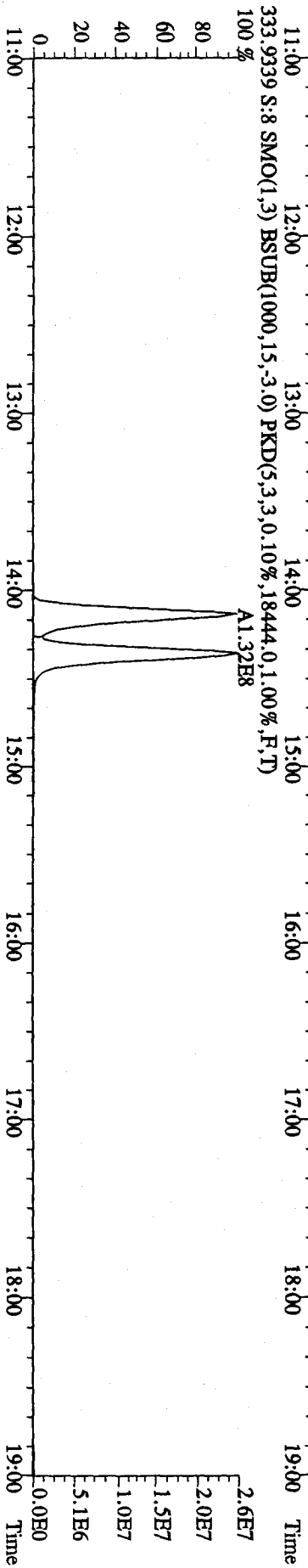
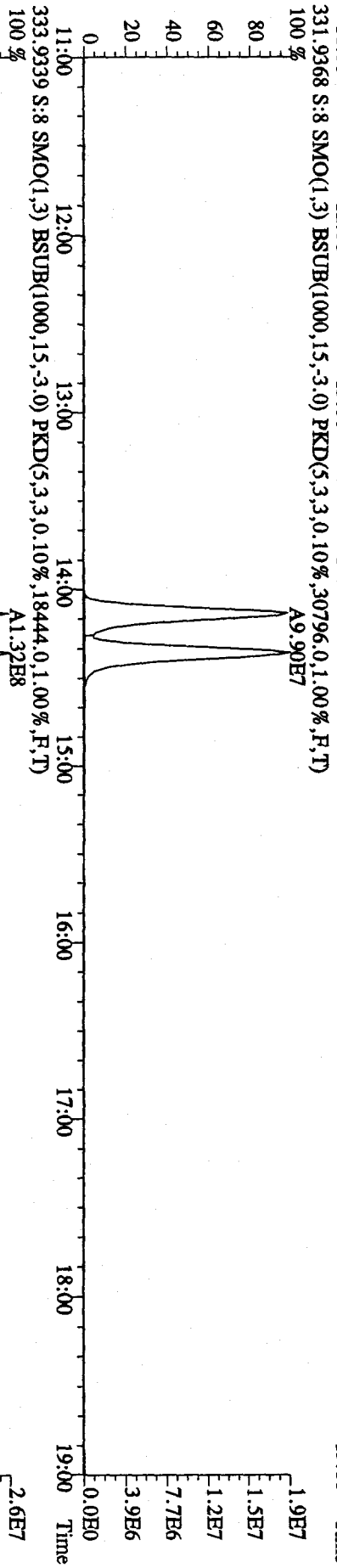
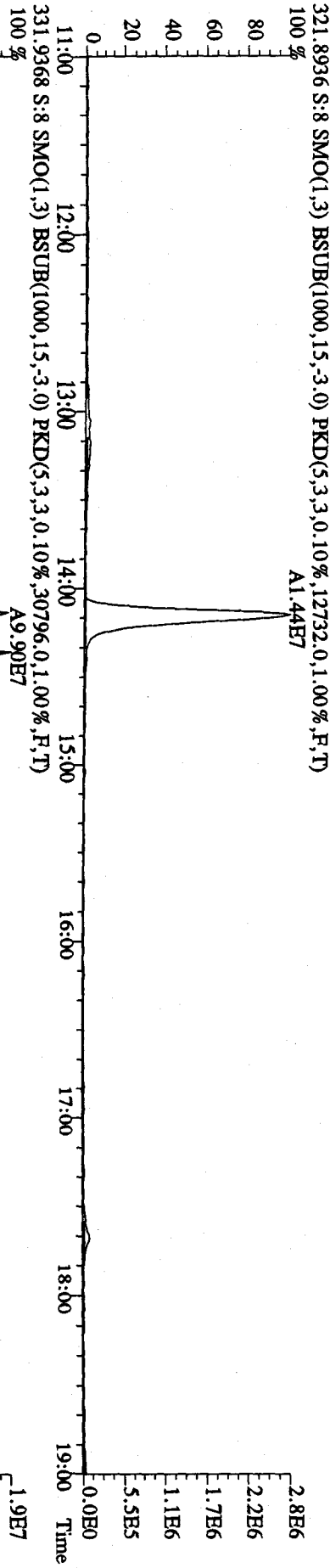
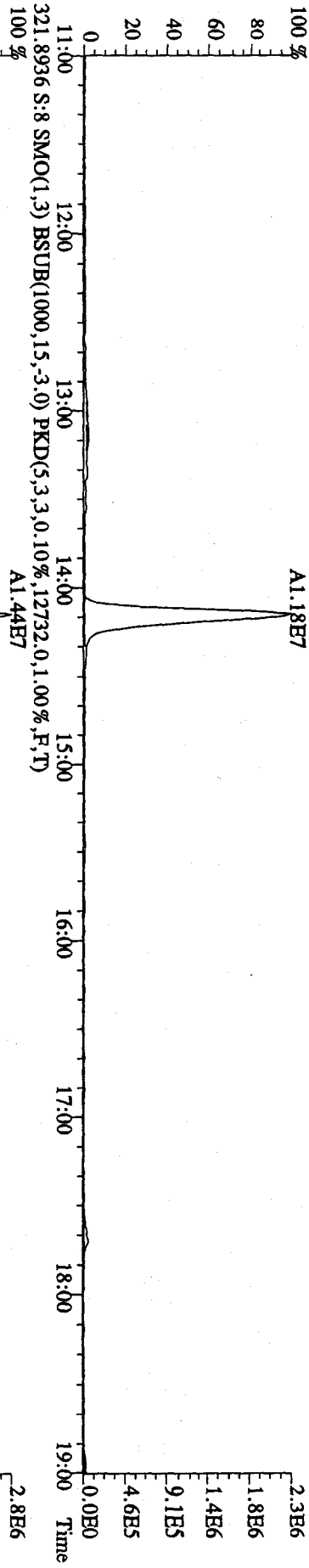
File:04\A10B5D2 #1-1242 Acq: 5-JAN-2010 01:59:23 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST01041 :2nd Source 09DXN449 Exp:DB225
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10272.0,1.00%,F,T)
 100 %



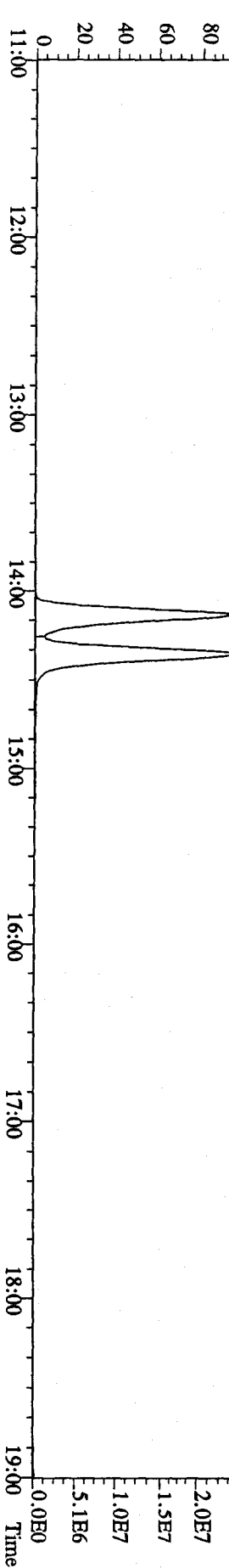
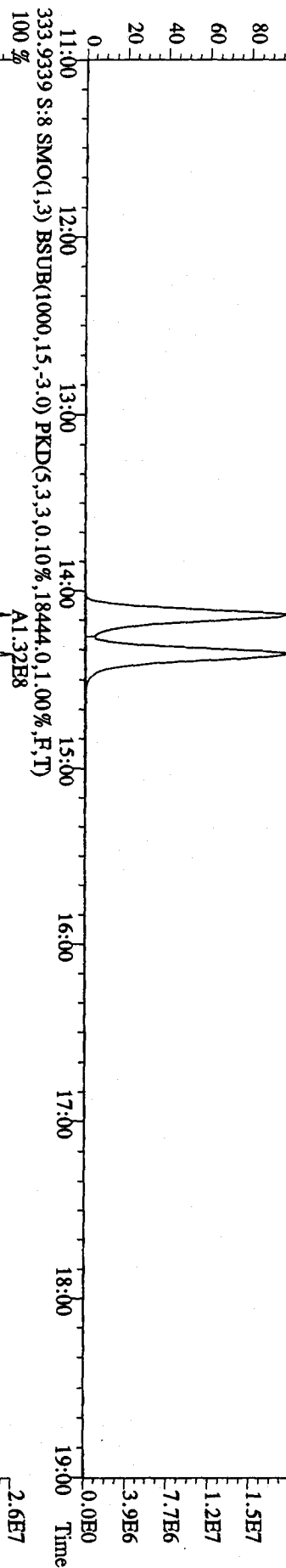
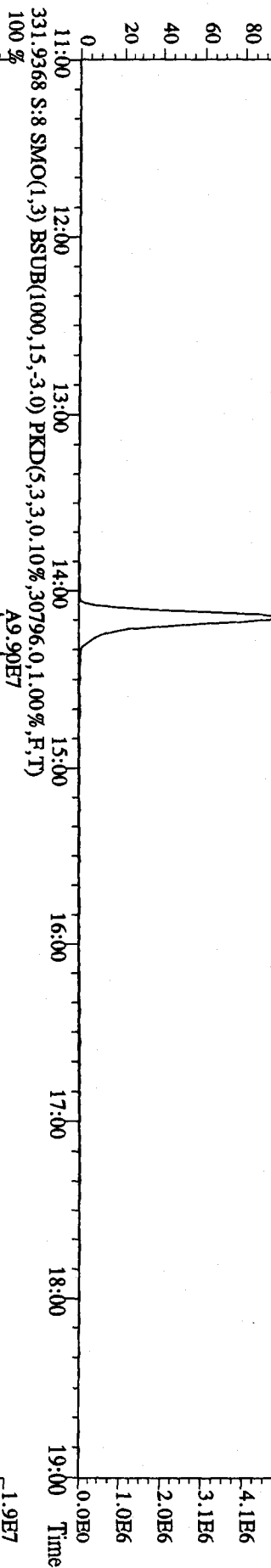
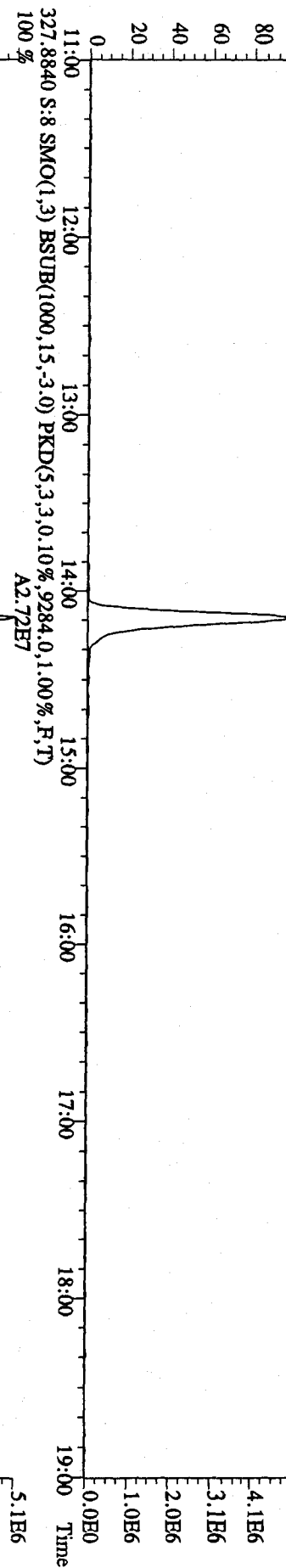
File:041A10B5D2 #1-1242 Acq: 5-JAN-2010 01:59:23 GC EI+ Voltage SIR 70SE

Sample#8 Text:ST01041 :2nd Source 09DXN449 Exp:DH225

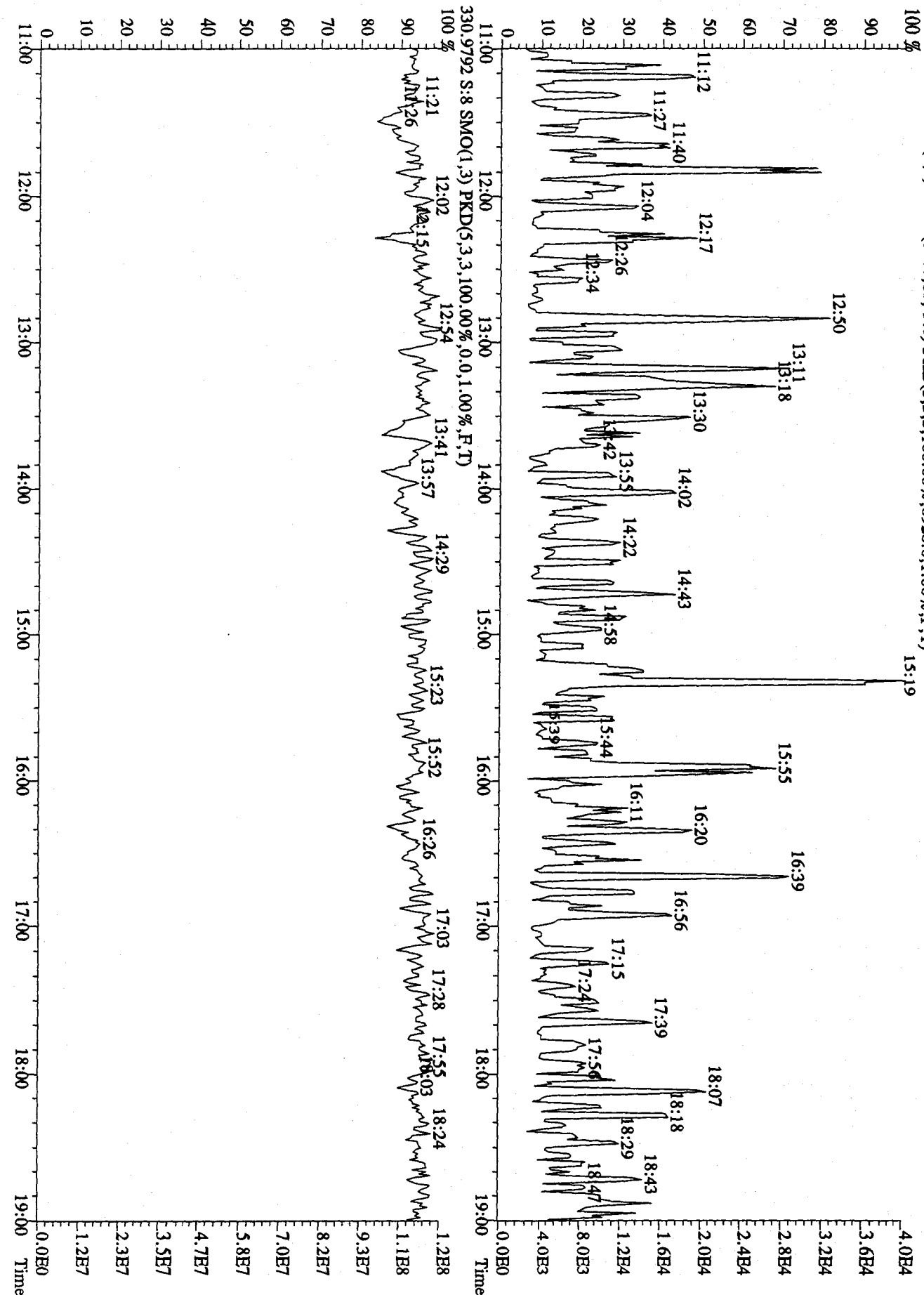
319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9448,0,1.00%,F,T)
A1.18E7



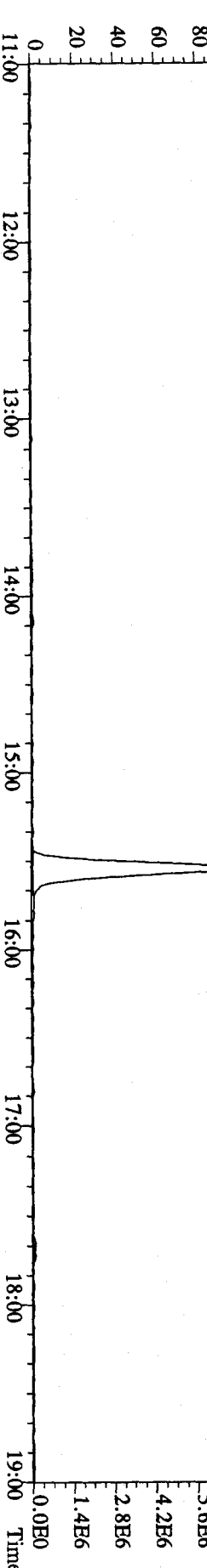
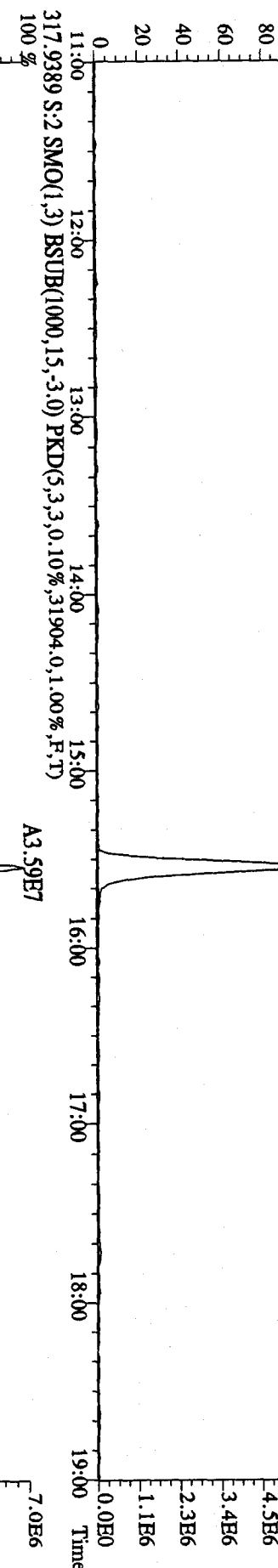
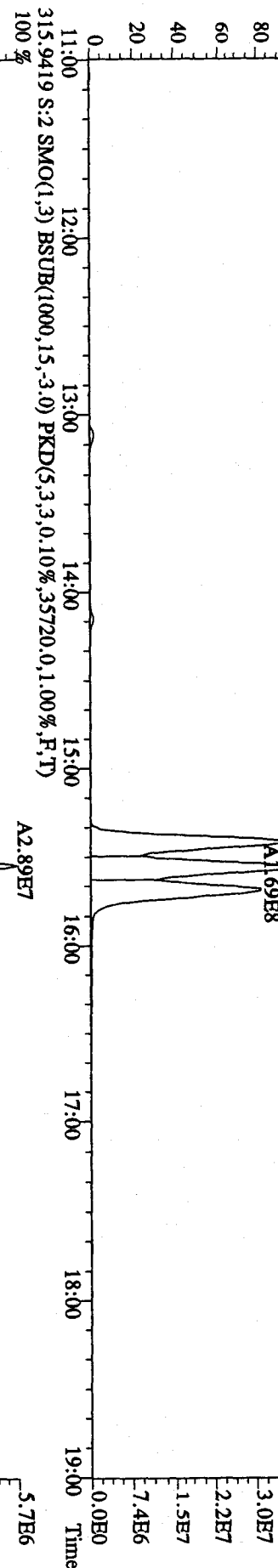
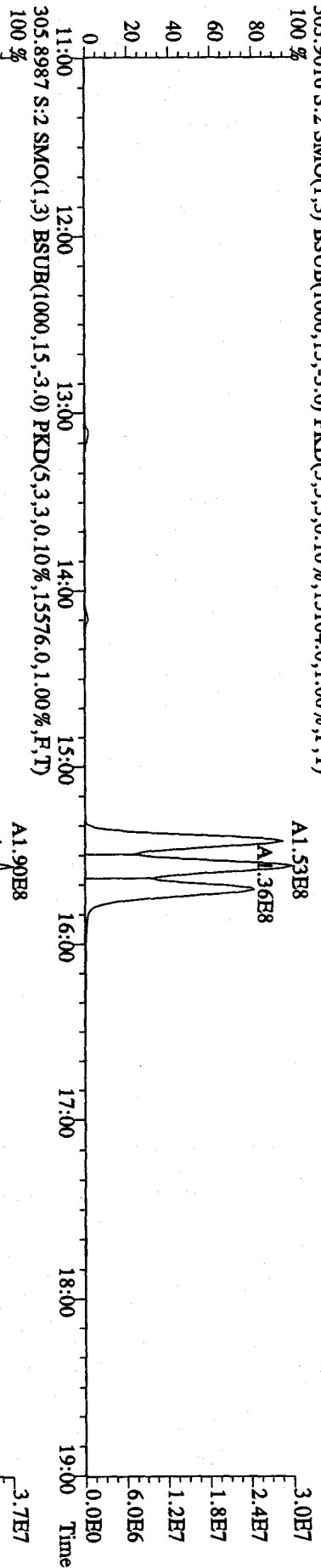
File:041A10B5D2 #1-1242 Acq: 5-JAN-2010 01:59:23 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST01041 :2nd Source 09DXN449 Exp:DB225
 327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9284.0,1.00%,F,T)
 100% A2.72E7



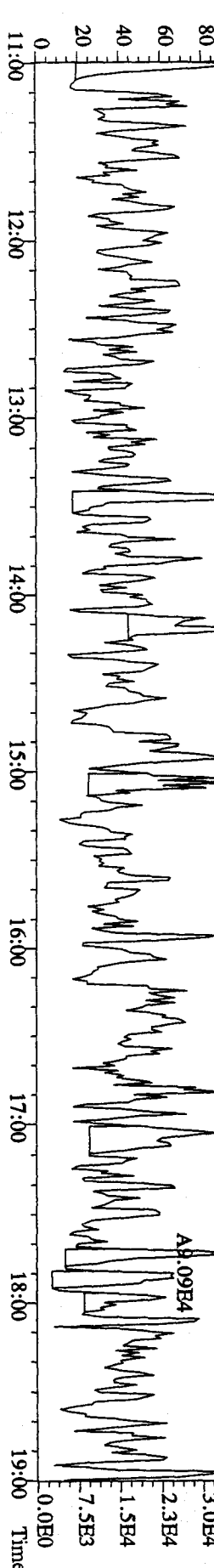
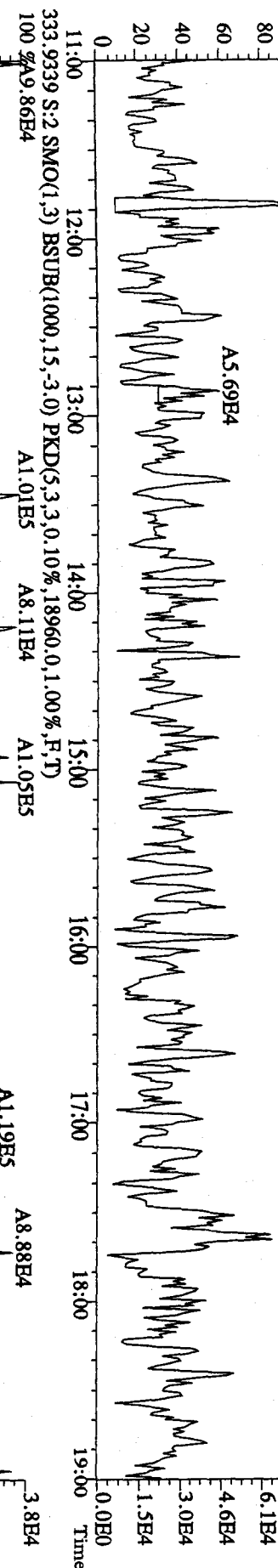
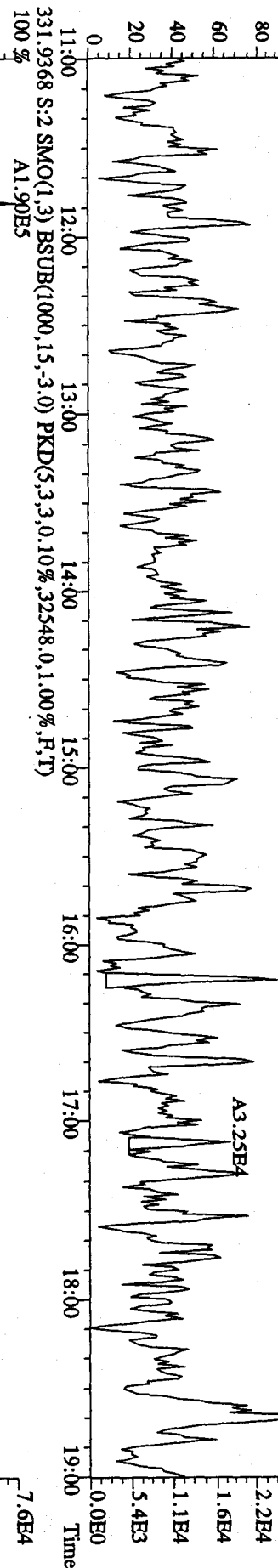
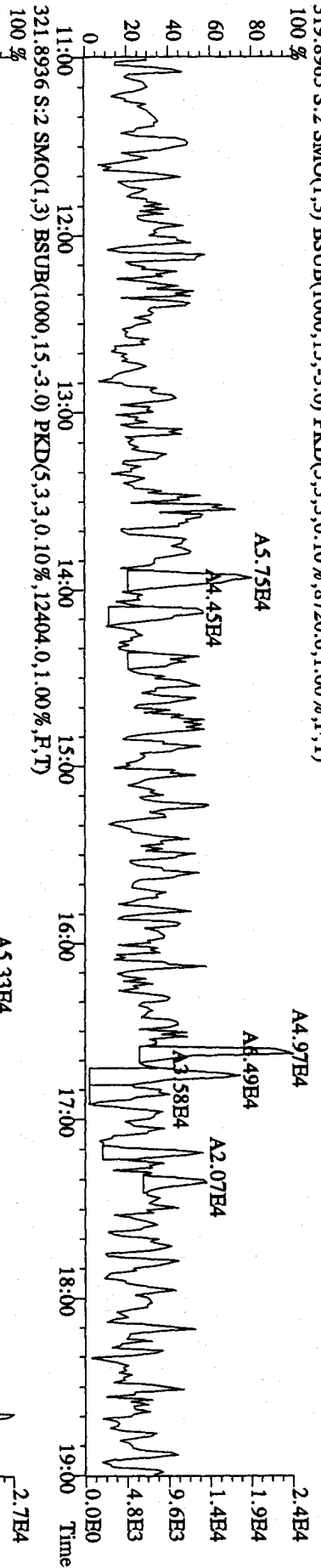
File:04JA10B5D2 #1-1242 Acq: 5-JAN-2010 01:59:23 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST01041 2nd Source 09DXN449 Exp:DB225
 375.8364 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,6928,0,1,00%,F,T)



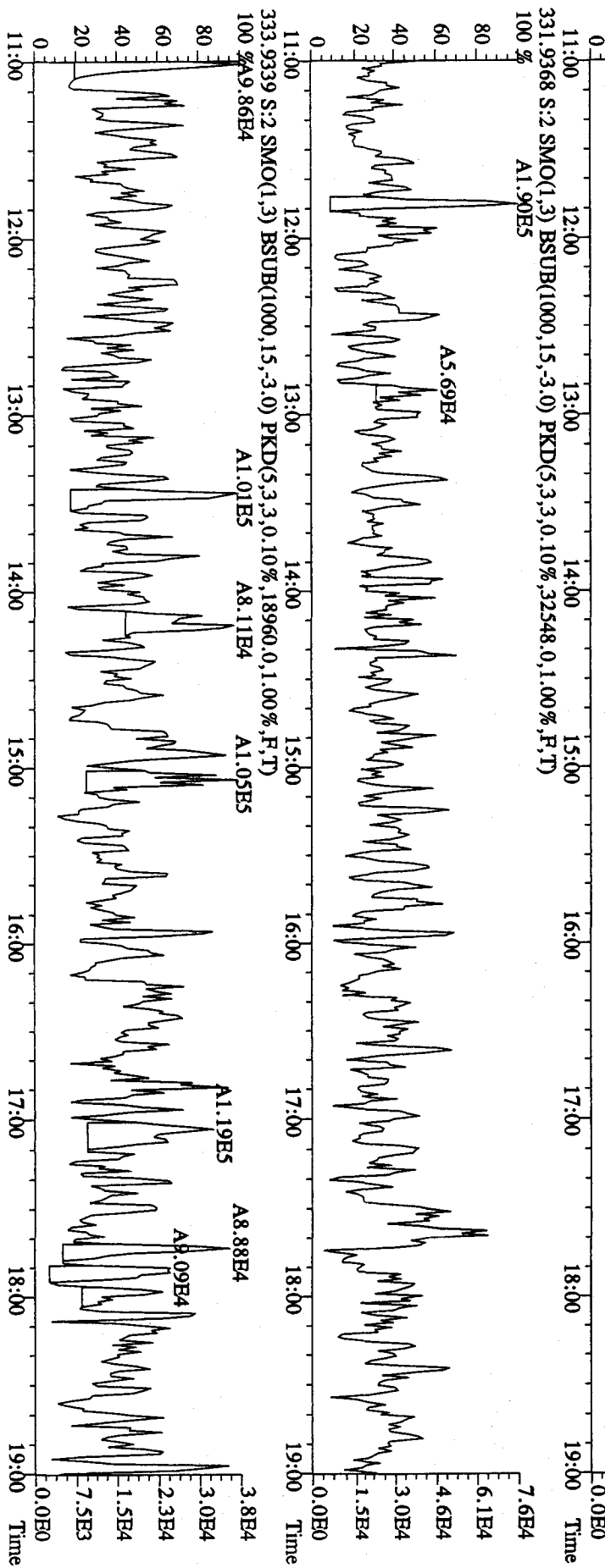
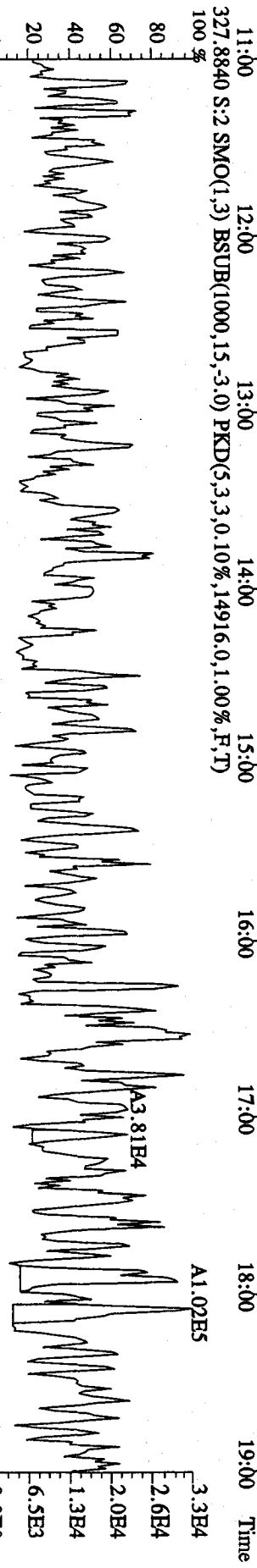
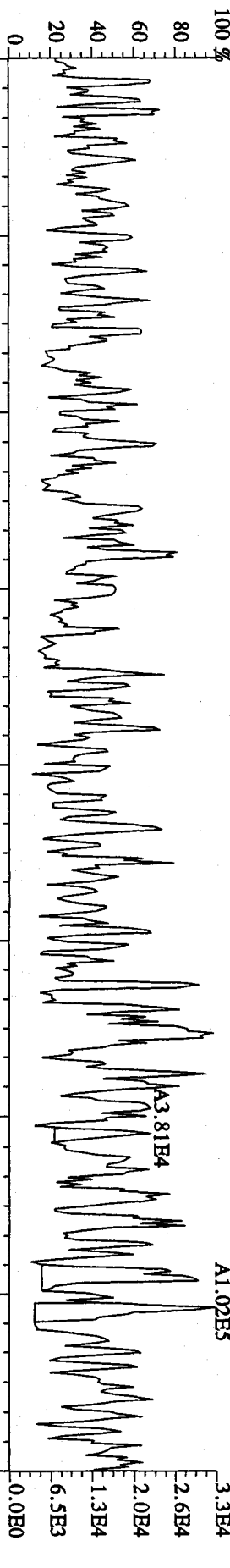
File:041A10B5D2 #1-1242 Acq: 4-JAN-2010 22:17:05 GC: EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104C :DB225 CFSM 3732-01 Exp:DB225
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15104.0,1.00%,F,T)



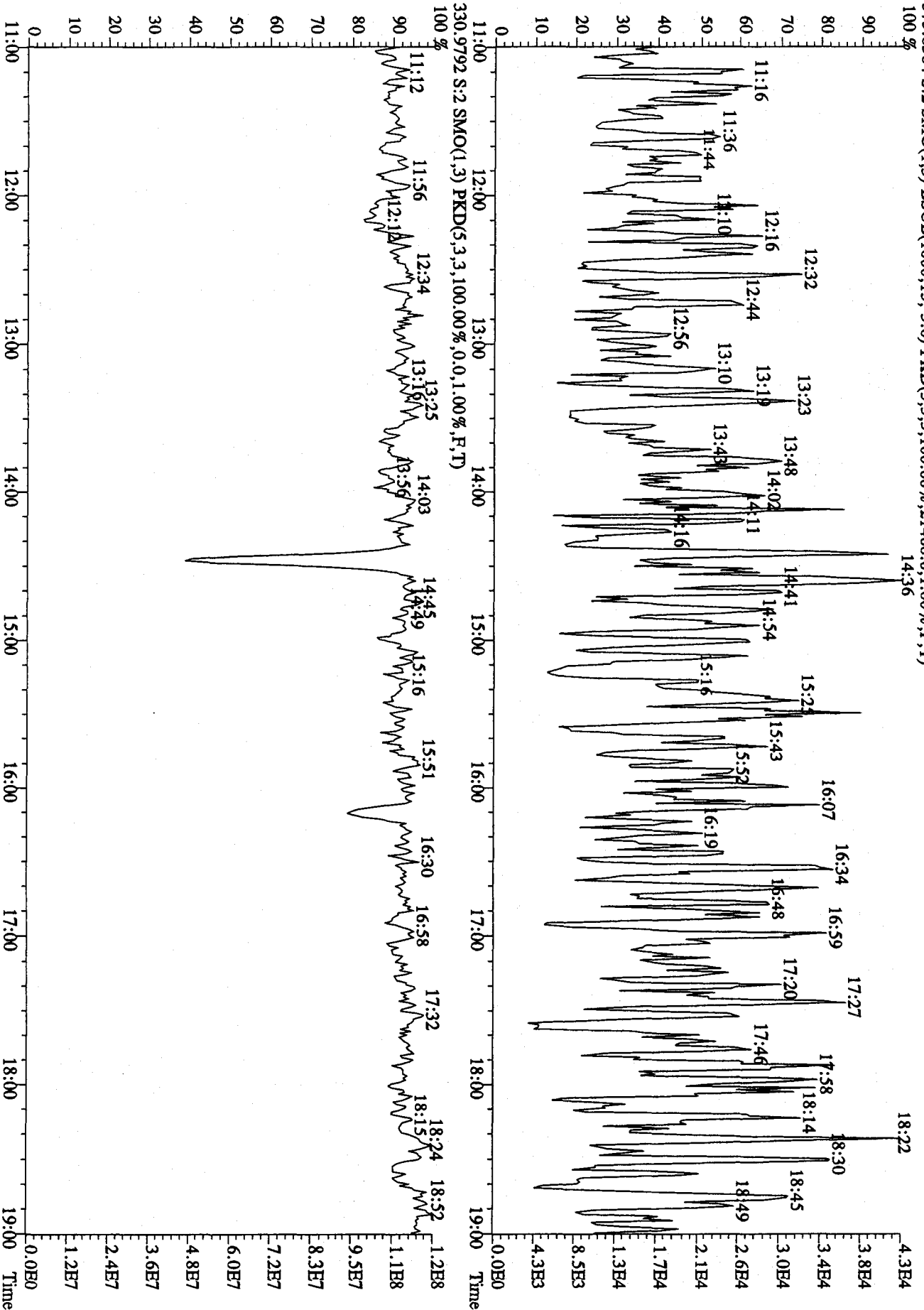
File:041A10B5D2 #-1-1242 Acq: 4-JAN-2010 22:17:05 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104C :DB225 CPISM 3732-01 Exp:DB225
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8720.0,1.00%,F,T) 100%



File:041A10B5D2 #1-1242 Acq: 4-JAN-2010 22:17:05 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP0104C :DB225 CPISM 3732-01 Exp:DB225
 327.8840 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14916.0,1.00%,F,T)



File:04JA10B5D2 #1-1242 Acq: 4-JAN-2010 22:17:05 GC EI + Voltage SIR 70SE
 Sample#2 Text:CP0104C :DB225 CPISM 3732-01 Exp:DB225
 375.8364 S:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,100.00%,21468,0.1,00%,F,T)



Sample Extraction/Preparation Log
Copies and Checklists

**TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan Solid Analysis**

Box # 70
 Shared QC Batch: 12209
 Shares QC With: 181



THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	<u>J 12209</u>
Inst Receipt:	

Batch: 9355435
 MS Run #:
 Prep Date: 12/21/2009
 Method: IN 8290
 Matrix: A SOLID
 Extraction: 4W SOXHLET (NOMINAL)
 QC: 01 STANDARD TEST SET
 SAC: IN - A - 4W - 01
 Soxhlet time on: 1760 Soxhlet time off: 2100

Prep Reagents		
Reagent	Supplier	Lot #
Toluene	Baker	<u>H10000</u>
Hexane	Baker	<u>H30E30</u>
H2SO4	Baker	<u>G35029</u>
20% DCM:Hexane	NA	<u>43630-43E</u>
65% DCM:Hexane	NA	<u>3630-43G</u>
1:1 DCM:Cyclohexane	NA	<u>NA</u>
75:20:5 DCM:Hexane:Benzene	NA	<u>NA</u>
Silica Gel	<u>Wheaton</u>	<u>22-22</u>
Acid Alumina	<u>MP Bio</u>	<u>18</u>
5% Carbon:Silica Gel	<u>NA</u>	<u>NA</u>

Extraction Table							
Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 10g nom.	Final Volume		Analysis Hold Time Expires
					200L	Other	
G9L110588 - 22 RX		LQ0232AC	1/9/2010	<u>10.13</u>	/		2/4/2010
G9L110588 - 23 RX		LQ0242AC	1/9/2010	<u>10.12</u>	/		2/4/2010
G9L110588 - 25 RX		LQ0272AC	1/9/2010	<u>10.15</u>	/		2/4/2010
G9L120491 - 1 RX		LQ2K52AC	1/10/2010	<u>10.02</u>	/		2/4/2010
G9L120491 - 2 RX		LQ2K72AC	1/10/2010	<u>10.04</u>	/		2/4/2010
G9L120491 - 3 RX		LQ2K82AC	1/10/2010	<u>10.41</u>	/		2/4/2010
G9L120491 - 4 RX		LQ2K92AC	1/10/2010	<u>10.40</u>	/		2/4/2010
G9L120491 - 5 RX		LQ2LA2AC	1/10/2010	<u>10.19</u>	/		2/4/2010
G9L120491 - 6 RX		LQ2LC2AC	1/10/2010	<u>10.18</u>	/	<u>12209</u>	2/4/2010
G9L120491 - 7 RX		LQ2LD2AC	1/10/2010	<u>10.06</u>	/		2/4/2010
G9L120491 - 8 RX		LQ2LE2AC	1/10/2010	<u>10.13</u>	/		2/4/2010
G9L120491 - 8 RX	S	LQ2LE2AD	1/10/2010	<u>10.20</u>	/		2/4/2010
G9L120491 - 8 RX	D	LQ2LE2AE	1/10/2010	<u>10.22</u>	/		2/4/2010
G9L210000 - 435	B	LRF9L1AA	1/9/2010	<u>10.00</u>	/		2/4/2010
G9L210000 - 435	C	LRF9L1AC	1/9/2010	<u>10.00</u>	/		2/4/2010

* See attached sheet for sample volumes recorded from scale

Comments/NCMs: _____

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples	<u>10ml 10XN415</u>	<u>2-1-10</u>	<u>w</u>	<u>[Signature]</u>	<u>12-21-09</u>
Spike Mix LCS/LCSD/MS/MS	<u>10ml 10XN401</u>	<u>11-30-10</u>	<u>w</u>	<u>[Signature]</u>	<u>12-20-09</u>
Cleanup Standard All Samples	<u>1.0ml R4DXN 418</u>	<u>12/16/2010</u>	<u>T.L</u>	<u>[Signature]</u>	<u>12/22/09</u>
Recovery Standard All Samples	<u>10ml 10XN388</u>	<u>11-19-10</u>	<u>L</u>	<u>[Signature]</u>	<u>12-22-09</u>
Soxhlet Extraction Analyst/Date	<u>(12/22/09)</u>				
Split/Archive Analyst/Date	<u>—</u>				
Option 0 Analyst/Date	<u>T.L 12/22/09</u>				
IFB Analyst/Date	<u>T.L 12/22/09</u>				
D2 Analyst/Date	<u>—</u>				

**Data Checklist
HRGCMS/LRGCMS Analyses**

Batch #: 4355435 Method ID: 8290

DB-5
Data Analyst: OS
Date initiated: 12-29-09
Reviewer: [Signature]
Date reviewed: 12/31/09

DB-225
Data Analyst: OS
Date initiated: 12-29-09
Reviewer: [Signature]
Date reviewed: 12/31/09

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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Method Blank present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-LCS/DCS copy present and meets native recovery criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Internal standard recoveries within limits?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Ion ratios within + 15% of theoretical values?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Other QC (Dup,MS,SD) within specs?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-All raw data present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Standard target DL's used? If RL's are used specify: _____	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-DL's below TDL (LCL) (please circle)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-All positives reported at levels greater than method blank DL's?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Correct RRF's used for method?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Internal standard amounts correct for method?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Target analytes are not saturated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Dilution/splitting of extract taken into account?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Have dilution calculations been verified?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Has a manual calculation for the sequence(s) been verified?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Are retention times (RT) correct?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Manual integrations checked?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: (Use other side if necessary)
Low IS recoveries see NCH # 02-0101020

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(Cl4-CI6), 25-130%(Cl7-8), 70-130%(surr.)	50%
PCBs:	25-150%***	50%
Method 8280:	40-120%***	
DFLM01.0:	25-150%***	
Method 1614	25-150%***	

*** Lower recoveries are acceptable if I.S. S/N ≥10:1 and DL's are <LCL for target analytes.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/22/09
Time: 14:43:28

LEV 1 2
Y Y
Y Y
Y Y

Blank
Check
MS/MSD
Weights/Volumes
Spike & Surrogate Worksheet
Vial contains correct volume
Labels, greenbars, worksheets
computer batch: correct & all match
Anomalies to Extraction Method

Expanded Deliverable
COC Completed
Bench Sheet Copied
Package Submitted to Analytical Group
Bench Sheet Copied per COC

Extractionist: 002084 Ceasar Cortez

Concentrationist: 006625 Elizabeth Nguyen

* QC BATCH: 9355435 *
* PREP DATE: 12/21/09 17:00
* COMP DATE: 12/22/09 21:00

Reviewer/Date: NGUYENE / 12/22/09

Dioxins/Furans, HRGC/HRMS (8290)
SOXHLET (NOMINAL)

EXTR EXPR	ANL DUE	LOT# WORK ORDER	MSRUN# /	TEST FLGS	EXT	MTH	MATRIX	INIT/ WT/VOL	FIN	PH'S ADJ1	ADJ2	EXTRACTION VOL	EXCHANGE	VOL	SOLVENTS	SURROGATE ID
1/09/10	12/29/09	G9L110588-022	LQ023-2-AC		4W	IN	SOLID	10.31g 20.00uL	NA	NA	NA	300.0	C14	20.0	1.0ML	IS 09DXN415
COMMENTS:																
1/09/10	12/29/09	G9L110588-023	LQ024-2-AC		4W	IN	SOLID	10.16g 20.00uL	NA	NA	NA	300.0	C14	20.0	1.0ML	IS 09DXN415
COMMENTS:																
1/09/10	12/29/09	G9L110588-025	LQ027-2-AC		4W	IN	SOLID	10.15g 20.00uL	NA	NA	NA	300.0	C14	20.0	1.0ML	IS 09DXN415
COMMENTS:																
1/10/10	12/30/09	G9L120491-001	LQ2K5-2-AC		4W	IN	SOLID	10.02g 20.00uL	NA	NA	NA	300.0	C14	20.0	1.0ML	IS 09DXN415
COMMENTS:																
1/10/10	12/30/09	G9L120491-002	LQ2K7-2-AC		4W	IN	SOLID	10.04g 20.00uL	NA	NA	NA	300.0	C14	20.0	1.0ML	IS 09DXN415
COMMENTS:																
1/10/10	12/30/09	G9L120491-003	LQ2K8-2-AC		4W	IN	SOLID	10.41g 20.00uL	NA	NA	NA	300.0	C14	20.0	1.0ML	IS 09DXN415
COMMENTS:																
1/10/10	12/30/09	G9L120491-004	LQ2K9-2-AC		4W	IN	SOLID	10.40g 20.00uL	NA	NA	NA	300.0	C14	20.0	1.0ML	IS 09DXN415
COMMENTS:																

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/22/09
Time: 14:43:28

* * QC BATCH: 9355435 * *
* * PREP DATE: 12/21/09 17:00
* * COMP DATE: 12/22/09 21:00

EXTR EXPR	ANL DUE	LOT# WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PH'S INIT ADJ1	ADJ2	EXTRACTION VOL	EXCHANGE	VOL	SOLVENTS	SPIKE STANDARD/ SURROGATE ID
1/10/10	12/30/09	G9L120491-005 LQ21A-2-AC		4W	IN SOLID	10.19g 20.00uL	NA	NA	TOL	300.0	C14	20.0	1.0ML IS 09DXN415
1/10/10	12/30/09	G9L120491-006 LQ21C-2-AC		4W	IN SOLID	10.18g 20.00uL	NA	NA	TOL	300.0	C14	20.0	1.0ML IS 09DXN415
1/10/10	12/30/09	G9L120491-007 LQ21D-2-AC		4W	IN SOLID	10.00g 20.00uL	NA	NA	TOL	300.0	C14	20.0	1.0ML IS 09DXN415
1/10/10	12/30/09	G9L120491-008 LQ21E-2-AC		4W	IN SOLID	10.13g 20.00uL	NA	NA	TOL	300.0	C14	20.0	1.0ML IS 09DXN415
1/10/10	12/30/09	G9L120491-008 LQ21E-2-ADS		4W	IN SOLID	10.26g 20.00uL	NA	NA	TOL	300.0	C14	20.0	50.0UL NS 09DXN409 1.0ML IS 09DXN415
1/10/10	12/30/09	G9L120491-008 LQ21E-2-AED		4W	IN SOLID	10.12g 20.00uL	NA	NA	TOL	300.0	C14	20.0	50.0UL NS 09DXN409 1.0ML IS 09DXN415
1/09/10	0/00/00	G9L210000-435 LRF9L-1-AAB		4W	IN SOLID	10.00g 20.00uL	NA	NA	TOL	300.0	C14	20.0	1.0ML IS 09DXN415
1/09/10	0/00/00	G9L210000-435 LRF9L-1-ACC		4W	IN SOLID	10.00g 20.00uL	NA	NA	TOL	300.0	C14	20.0	50.0UL NS 09DXN409 1.0ML IS 09DXN415

R = RUSH C = CIP
E = EPA 600 D = EXP.DEL) 15
M = CLIENT REQ MS/MSD

Preparation Data Review Checklist

Prep Batch(es) 01552415

Test: 02965

Prep Date: 12-21-09

Holding Times: 1.5 hr

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. Weights and Volumes:		
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	✓
C. Standards and Reagents		
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	✓
D. Documentation		
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: 12/21/09

2nd Level Reviewer: [Signature]

Date: 12/22/09

Comments:

**TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan Solid Analysis**

Box # 75
Shared: Same
QC Batch:



THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	<u>12-29-09</u>
Inst Receipt:	

Batch: 9362386
MS Run #: 9362207
Prep Date: 12/28/2009
Method: IN 8290
Matrix: A SOLID
Extraction: 4W SOXHLET (NOMINAL)
QC: 01 STANDARD TEST SET
SAC: IN - A - 4W - 01

Soxhlet time on: 800 Soxhlet time off: 21:10

Shares
QC With: NA

Prep Reagents		
Reagent	Supplier	Lot #
Toluene	Baker	<u>H28K10</u>
Hexane	Baker	<u>H30E30</u>
H2SO4	Baker	<u>G35029</u>
20% DCM:Hexane	NA	<u>3630-441D</u>
65% DCM:Hexane	NA	<u>3630-44C</u>
1:1 DCM:Cyclohexane	NA	<u>NA</u>
75:20:5 DCM:Hexane:Benzen	NA	<u>NA</u>
Silica Gel	<u>WHATMAN</u>	<u>22-22</u>
Acid Alumina	<u>MP</u>	<u>18</u>
5% Carbon:Silica Gel	<u>NA</u>	<u>NA</u>

Extraction Table							
Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 10g nom.	Final Volume		Analysis Hold Time Expires
					200µ	Other	
G9L120491 - 3 RX		LQ2K83AC	1/10/2010	<u>10.31</u>	<u>11/11/11</u>		2/11/2010
G9L120491 - 7 RX		LQ2LD3AC	1/10/2010	<u>10.10</u>	<u>11/11/11</u>		2/11/2010
G9L120491 - 8	S	LQ2LE1AF	1/10/2010	<u>10.02</u>	<u>11/11/11</u>		2/11/2010
G9L120491 - 8	D	LQ2LE1AG	1/10/2010	<u>10.08</u>	<u>11/11/11</u>		2/11/2010
G9L120491 - 8 RX		LQ2LE3AC	1/10/2010	<u>10.17</u>	<u>11/11/11</u>		2/11/2010
G9L240493 - 1		LRL8H1AC	1/21/2010	<u>10.19</u>	<u>11/11/11</u>	<u>12/29/09</u>	2/11/2010
G9L240493 - 2		LRL8V1AC	1/21/2010	<u>10.03</u>	<u>11/11/11</u>		2/11/2010
G9L280000 - 386	B	LRNEV1AA	1/10/2010	<u>10.00</u>	<u>11/11/11</u>		2/11/2010
G9L280000 - 386	C	LRNEV1AC	1/10/2010	<u>10.00</u>	<u>11/11/11</u>		2/11/2010

* See attached sheet for sample volumes recorded from scale

Comments/NCMs: _____

ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples <u>1.0mL 09DXN430</u>	<u>10-31-10</u>	<u>A</u>	<u>CR</u>	<u>12-28-10</u>
Spike Mix LCS/LCSD/MS/MS <u>0.4 09DXN409</u>	<u>11-30-10</u>	<u>A</u>	<u>CR</u>	<u>12-28-10</u>
Cleanup Standard All Samples <u>1.0mL 09DXN418</u>	<u>12/16/10</u>	<u>CR</u>	<u>[Signature]</u>	<u>12/29/09</u>
Recovery Standard All Samples <u>10.0 09DXN388</u>	<u>11-19-10</u>	<u>L</u>	<u>A</u>	<u>12-29-09</u>

Soxhlet Extraction Analyst/Date	Split/Archive Analyst/Date	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
<u>L 12-28-09</u>	<u>-</u>	<u>W 12/29/09</u>	<u>C/W 12/29/09</u>	<u>-</u>

Data Checklist
HRGCMS/LRGCMS Analyses

THE LEADER IN ENVIRONMENTAL TESTING

Batch #: 9362386 Method ID: 8290

Data Analyst: DB-5 AK
Date initiated: 1/7/10
Reviewer: CR
Date reviewed: 1/8/10

Data Analyst: DB-225 DP
Date initiated: 1/7/10
Reviewer: Sh
Date reviewed: 1/8/10

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?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Method Blank present?	<u>/</u>	<u>✓</u>	<u>NA</u>	<u>NA</u>
-LCS/DCS copy present and meets native recovery criteria?	<u>/</u>	<u>✓</u>	<u>NA</u>	<u>NA</u>
-Internal standard recoveries within limits?*	<u>0</u>	<u>nan</u>	<u>/</u>	<u>✓</u>
-Ion ratios within +15% of theoretical values?	<u>0</u>	<u>nan</u>	<u>/</u>	<u>✓</u>
-Other QC (Dup,MS,SD) within specs?*	<u>✓</u>	<u>✓</u>	<u>/</u>	<u>✓</u>

Sample Analysis:	Initiated DB-5	Reviewed DB-5	Initiated DB-225 (High Res Only)	Reviewed DB-225 (High Res Only)
-Correct sample aliquot used?	<u>✓</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-All raw data present?	<u>✓</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Standard target DL's used? If RL's are used specify: <u>DL</u>	<u>✓</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-DL's below <u>DL</u> / LCL (please circle)?	<u>✓</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-All positives reported at levels greater than method blank DL's?	<u>✓</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Correct RRF's used for method?	<u>✓</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Internal standard amounts correct for method?	<u>✓</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Target analytes are not saturated?	<u>✓</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Dilution/splitting of extract taken into account?	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
-Have dilution calculations been verified?	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
-Has a manual calculation for the sequence(s) been verified?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Are retention times (RT) correct?	<u>/</u>	<u>✓</u>	<u>/</u>	<u>✓</u>
-Manual integrations checked?	<u>/</u>	<u>✓</u>	<u>NA</u>	<u>NA</u>

Comments: (Use other side if necessary)

* Recovery limits:

NCASI 551:	40-120%***
Method 8290:	40-135%***
Method 1613:	25-150%***
Method 23:	40-130%***(Cl4-Cl6), 25-130%(Cl7-8), 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.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/29/09
Time: 15:36:47

LEV 1 2
Y Y
Y Y
Y Y

Blank Check MS/MSD
Weights/Volumes
Spike & Surrogate Worksheet
Vial contains correct volume
Labels, greenbars, worksheets
computer batch: correct & all match
Anomalies to Extraction Method

Expanded Deliverable
COC Completed
Bench Sheet Copied
Package Submitted to Analytical Group
Bench Sheet Copied per COC

Extractionist: 006625 Elizabeth Nguyen

Concentrationist: 006625 Elizabeth Nguyen

* QC BATCH: 9362386 *

PREP DATE: 12/28/09 18:00
COMP DATE: 12/29/09 17:00

Reviewer/Date: NGUYENE / 12/29/09

Dioxins/Furans, HRGC/HRMS (8290)
SOXHLET (NOMINAL)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PH"S ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS VOL EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID	
1/10/10	12/30/09	G9L120491-003 LQ2K8-3-AC	4W	IN	SOLID	10.31g 10.00uL	NA	NA	TOL	300.0	C14	20.0	1.0ML IS09DXN430
1/10/10	12/30/09	G9L120491-007 LQ2LD-3-AC	4W	IN	SOLID	10.10g 10.00uL	NA	NA	TOL	300.0	C14	20.0	1.0ML IS09DXN430
1/10/10	12/30/09	G9L120491-008 LQ2LE-1-AFS	4W	IN	SOLID	10.08g 10.00uL	NA	NA	TOL	300.0	C14	20.0	50.0UL NS09DXN409 1.0ML IS09DXN430
1/10/10	12/30/09	G9L120491-008 LQ2LE-1-AGD	4W	IN	SOLID	10.17g 10.00uL	NA	NA	TOL	300.0	C14	20.0	50.0UL NS09DXN409 1.0ML IS09DXN430
1/10/10	12/30/09	G9L120491-008 LQ2LE-3-AC	4W	IN	SOLID	10.02g 10.00uL	NA	NA	TOL	300.0	C14	20.0	1.0ML IS09DXN430
1/21/10	1/11/10	G9L240493-001 LRL8H-1-AC	4W	IN	SOLID	10.19g 10.00uL	NA	NA	TOL	300.0	C14	20.0	1.0ML IS09DXN430
1/21/10	1/11/10	G9L240493-002 LRL8V-1-AC	4W	IN	SOLID	10.03g 10.00uL	NA	NA	TOL	300.0	C14	20.0	1.0ML IS09DXN430

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/29/09
Time: 15:36:47

* QC BATCH: 9362386 *
* PREP DATE: 12/28/09 18:00
* COMP DATE: 12/29/09 17:00

EXTR EXPR	ANL DUE	LOT# WORK ORDER	MSRUN#/ ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/ WT/VOL	FIN	PH#S ADJ1	ADJ2	EXTRACTION VOL	EXCHANGE	VOL	SOLVENTS	SPIKE STANDARD/ SURROGATE ID
	1/10/10	0/00/00	G9L280000-386 LRNEV-1-AAAB		4W	IN SOLID	10.00g 10.00uL	NA	NA	NA	TOL	300.0	C14	20.0	1.0ML IS09DXN430
	1/10/10	0/00/00	G9L280000-386 LRNEV-1-ACC		4W	IN SOLID	10.00g 10.00uL	NA	NA	NA	TOL	300.0	C14	20.0	50.0UL NS09DXN409 1.0ML IS09DXN430

COMMENTS:

COMMENTS:

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 9

Preparation Data Review Checklist

Prep Batch(es) 9302380 Test: 8290 solid
 Prep Date: 12-28-09 Holding Times: 1-10-10 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. Weights and Volumes		
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	✓
C. Standards and Reagents		
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	✓
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	✓
2. QuantIMs entry correct, including dates and times.	NA	✓
3. Are all fields completed?	NA	✓

Spike witness: CR Date: 12/28/09
 2nd Level Reviewer: [Signature] Date: 12/29/09
 Comments: _____

Preparation Data Review Checklist

Prep Batch(es) 0302380 Test: 8290 solid
 Prep Date: 12-28-09 Holding Times: 1-10-10 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. Weights and Volumes		
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	✓
C. Standards and Reagents		
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	✓
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	✓
2. QuantIMs entry correct, including dates and times.	NA	✓
3. Are all fields completed?	NA	✓

Spike witness: CR Date: 12/28/09
 2nd Level Reviewer: [Signature] Date: 12/29/09
 Comments: _____

Preparation Data Review Checklist

Prep Batch(es) 9362386

Test: 8290 solid

Prep Date: 12-28-09

Holding Times: 1-10-10 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. Weights and Volumes		
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	✓
C. Standards and Reagents		
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	✓
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	✓
2. QuantIMs entry correct, including dates and times.	NA	✓
3. Are all fields completed?	NA	✓

Spike witness: CR

Date: 12/28/09

2nd Level Reviewer: [Signature]

Date: 12/29/09

Comments:

WATER, 8290, Dioxins/Furans

Raw Data Package

Run/Batch Data

Includes (as applicable):

runlogs

continuing calibration standards

interference/performance check standards

continuing calibration blanks

method blanks

lcs

ms/sd

sample raw data

ms tune data

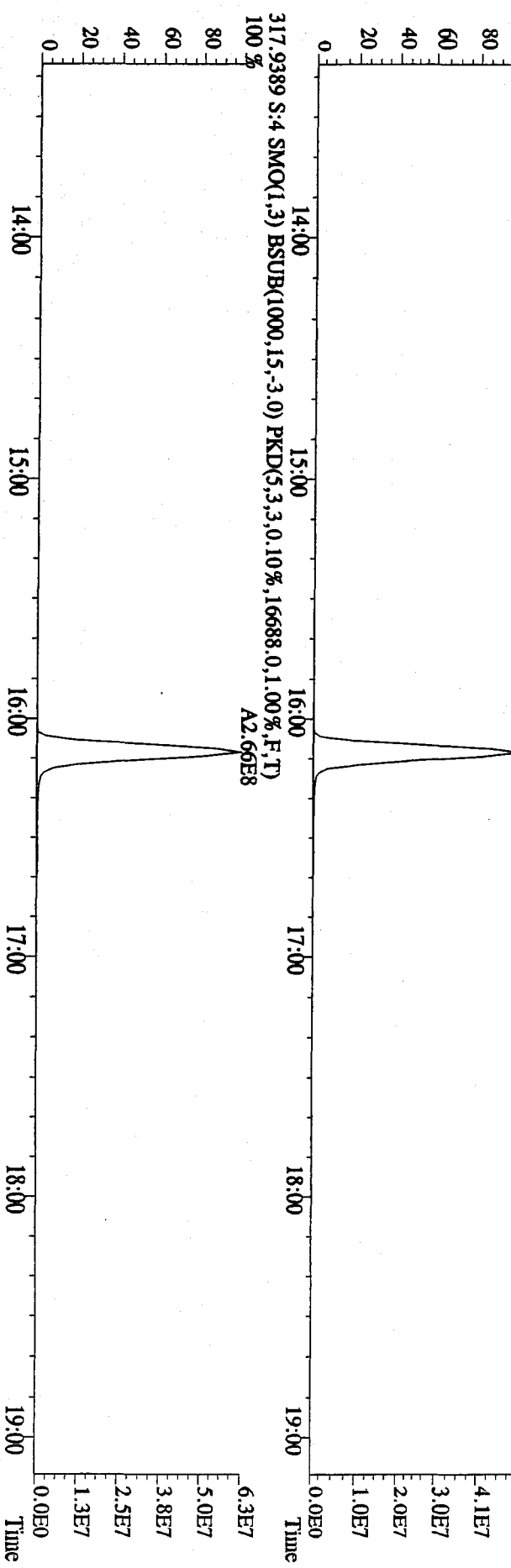
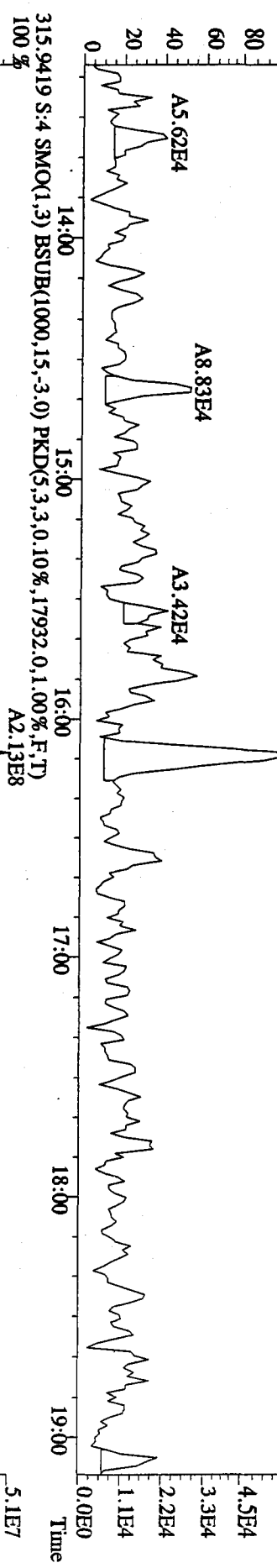
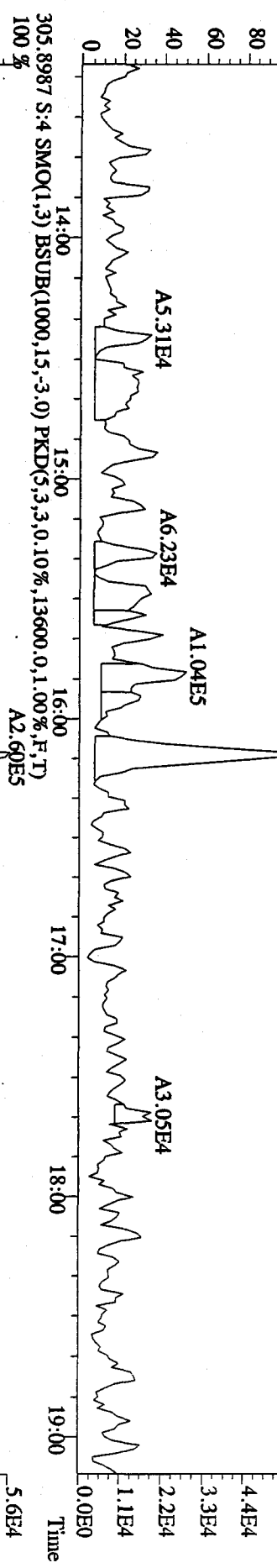
Run text: LQ3ME-1-AA Sample text: LQ3ME-1-AA :G9L140000-326B
 Run #8 Filename: 17DE091D5 S: 4 I: 1 Results: 17DE091D58290
 Acquired: 17-DEC-09 10:53:06 Processed: 17-DEC-09 13:51:50
 Run: 17DE091D5 Analyte: 8290 Cal: 82901215091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.000000L

Handwritten signature
 12/17/09

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	370670000	0.83 y	16:35	-	139.34	-	-	n
13C-2,3,7,8-TCDF	479437000	0.80 y	16:08	1.65	1566.18	1.46	78.3	n
2,3,7,8-TCDF	460968	0.95 n	16:10	1.13	1.71 <i>J,Q</i>	1.13	-	n
Total TCDF	738508	1.54 n	14:33	1.13	2.74	1.13	-	n
13C-2,3,7,8-TCDD	278396000	0.82 y	16:47	0.94	1591.66	2.45	79.6	n
2,3,7,8-TCDD	65883	0.28 n	16:49	1.19	0.40	1.02	-	n
Total TCDD	199434	1.82 n	16:08	1.19	1.21	1.02	-	n
37Cl-2,3,7,8-TCDD	338158000	1.00 y	16:48	2.77	657.68	0.56	82.2	n
13C-1,2,3,7,8-PeCDF	335637000	1.61 y	20:40	1.19	1526.35	1.75	76.3	n
1,2,3,7,8-PeCDF	568576	1.88 n	20:42	1.33	2.54 <i>J,Q</i>	1.39	-	n
2,3,4,7,8-PeCDF	251133	1.32 y	21:54	1.27	1.18	1.46	-	n
Total F2 PeCDF	1879601	1.26 n	19:29	1.30	8.59	1.43	-	n
Total F1 PeCDF	228153	0.48 n	14:24	1.30	1.05	1.44	-	n
13C-1,2,3,7,8-PeCDD	187448200	1.66 y	22:30	0.63	1593.68	1.70	79.7	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	1.26	*	1.51	-	n
Total PeCDD	206981	2.03 n	22:10	1.26	1.76	1.51	-	n
13C-1,2,3,7,8,9-HxCDD	225862200	1.32 y	31:07	-	117.44	-	-	n
13C-1,2,3,4,7,8-HxCDF	247383000	0.52 y	28:16	1.27	1723.33	7.07	86.2	n
1,2,3,4,7,8-HxCDF	539979	1.43 n	28:19	1.28	3.40 <i>J,Q</i>	3.14	-	n
1,2,3,6,7,8-HxCDF	*	* n	NotFnd	1.39	*	2.91	-	n
2,3,4,6,7,8-HxCDF	*	* n	NotFnd	1.30	*	3.09	-	n
1,2,3,7,8,9-HxCDF	516905	1.64 n	31:29	1.16	3.61 <i>J,Q</i>	3.48	-	n
Total HxCDF	1783821	1.05 n	27:14	1.28	11.59	3.14	-	n
13C-1,2,3,6,7,8-HxCDD	141284100	1.28 y	30:37	0.72	1731.92	2.95	86.6	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.26	*	2.14	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.39	*	1.94	-	n
1,2,3,7,8,9-HxCDD	*	* n	NotFnd	1.47	*	1.84	-	n
Total HxCDD	*	* n	NotFnd	1.37	*	1.96	-	n
13C-1,2,3,4,6,7,8-HpCDF	224123200	0.43 y	33:15	1.05	1890.62	8.79	94.5	n
1,2,3,4,6,7,8-HpCDF	242707	0.81 n	33:16	1.55	1.40	1.98	-	n
1,2,3,4,7,8,9-HpCDF	305820	1.03 y	34:30	1.31	2.09	2.35	-	n
Total HpCDF	945250	0.81 n	33:16	1.43	5.97	2.15	-	n
13C-1,2,3,4,6,7,8-HpCDD	171243400	1.07 y	34:08	0.76	1999.56	12.57	100.0	n
1,2,3,4,6,7,8-HpCDD	*	* n	NotFnd	1.28	*	1.51	-	n
Total HpCDD	114526	1.30 n	33:33	1.28	1.05	1.51	-	n
13C-OCDD	328326000	0.91 y	36:44	0.72	4057.96	10.54	101.4	n
OCDF	512987	0.98 y	36:50	1.58	3.96 <i>J</i>	2.60	-	n
OCDD	251716	0.88 y	36:45	1.13	2.72 <i>J</i>	2.30	-	n

05 12-28-09

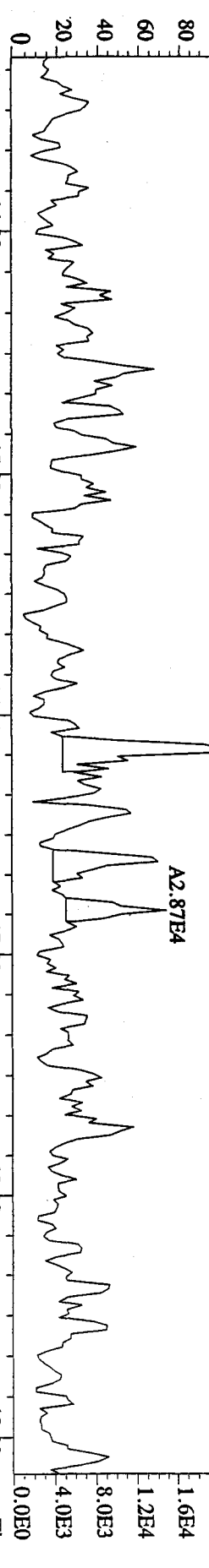
File: 17DEC091D5 #1-348 Acq: 17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE
 Sample#4 Text: LQ3ME-1-AA : G9L140000-326B Exp: DIOXIN
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10584,0,1,00%,F,T)
 100%



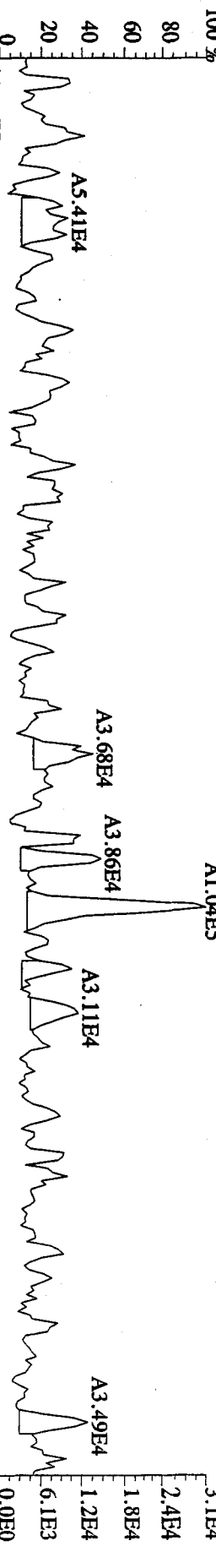
File:17DE091D5 #1-348 Acq:17-DEC-2009 10:33:06 GC EI+ Voltage SIR 70SE

Sample#4 Text:LQ3ME-1-AA :G9L14000-326B Exp:DIOXIN

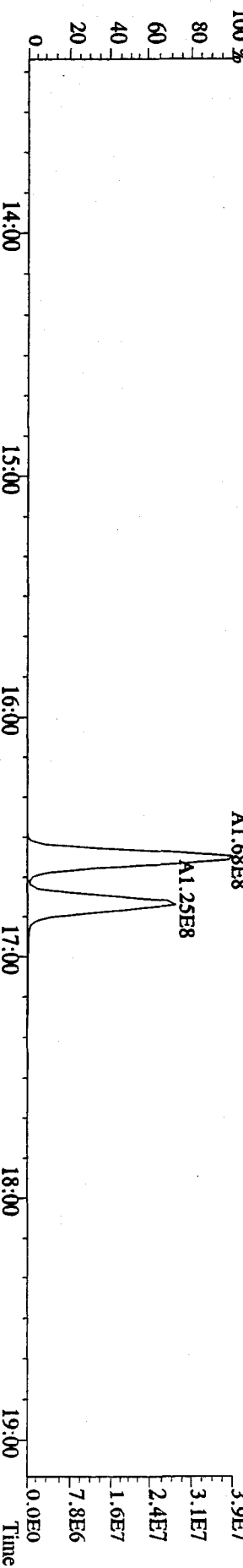
319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5948.0,1.00%,F,T) A6.71E4



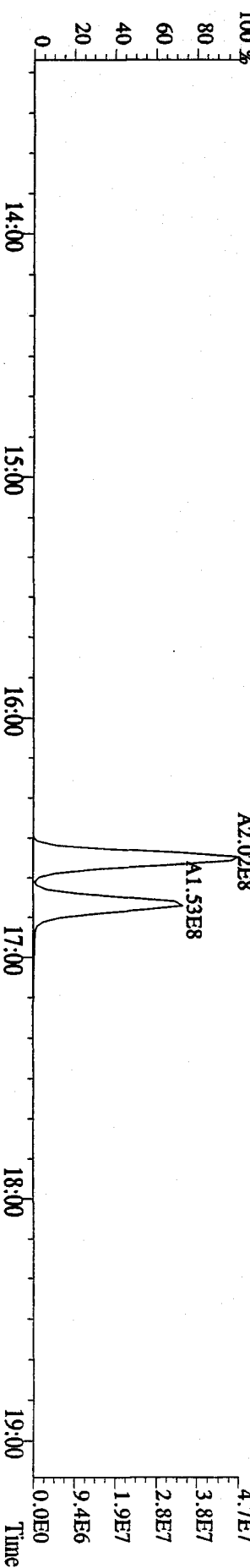
321.8936 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6636.0,1.00%,F,T)



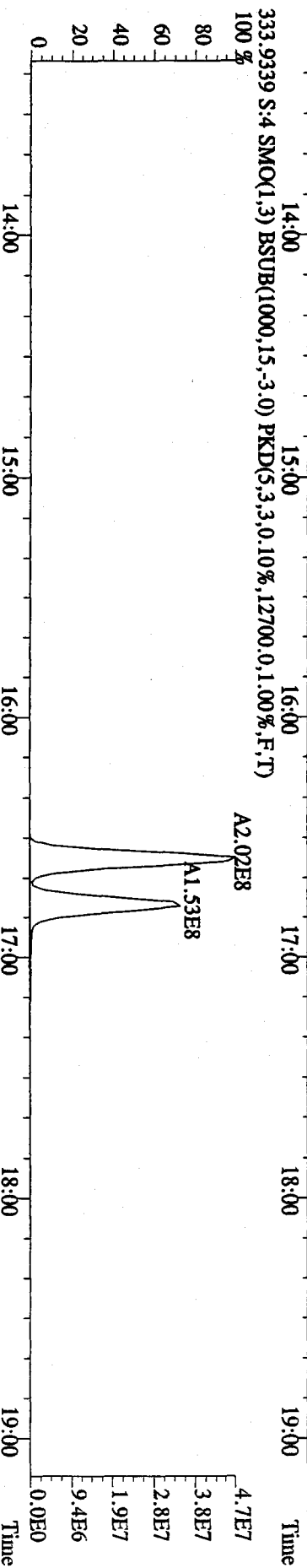
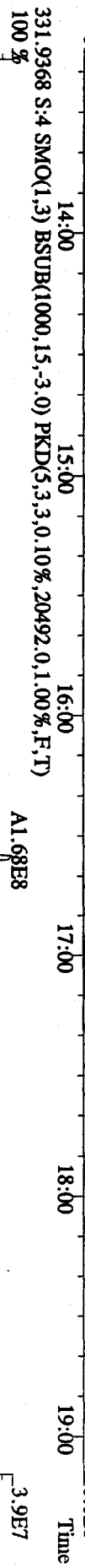
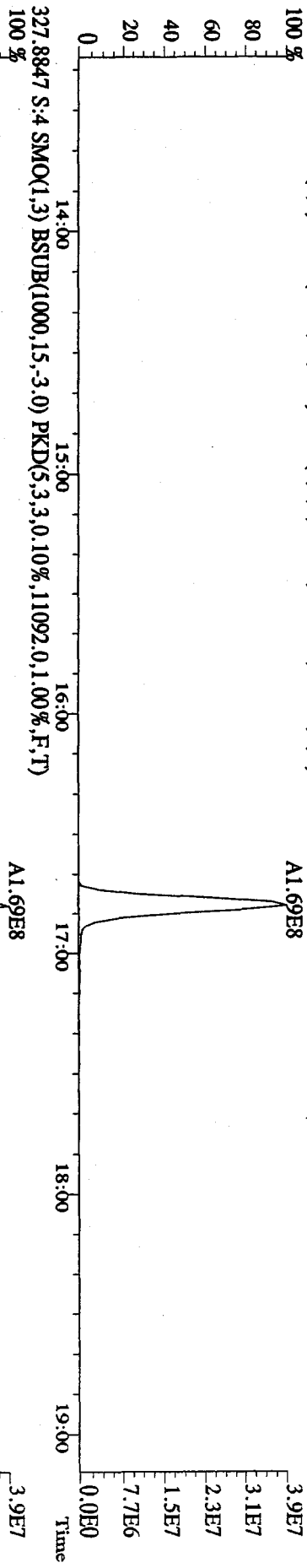
331.9368 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20492.0,1.00%,F,T)



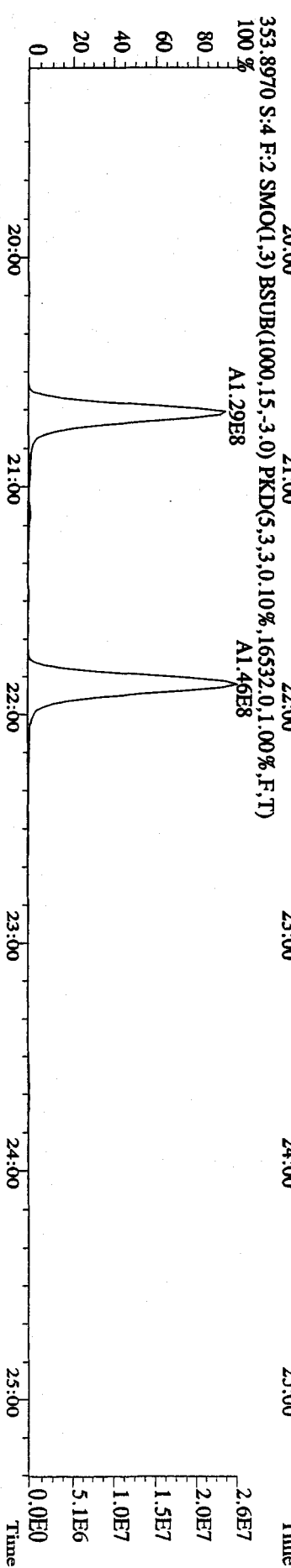
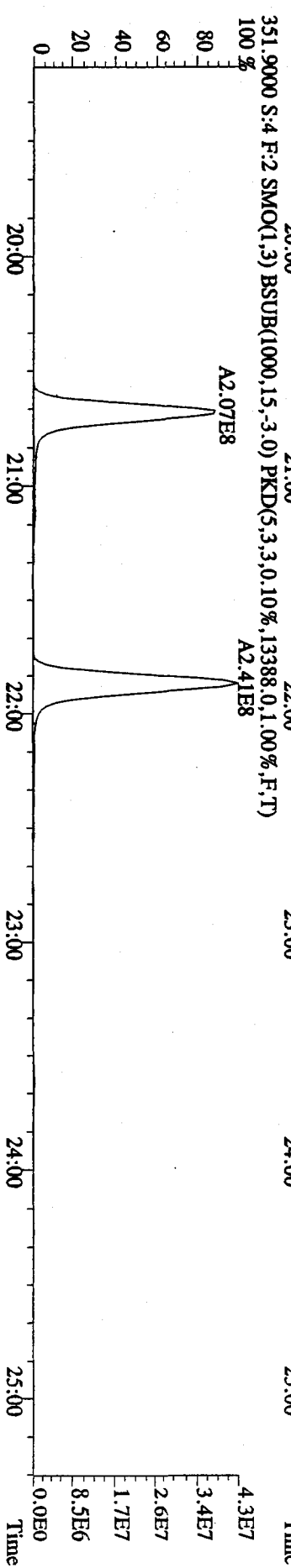
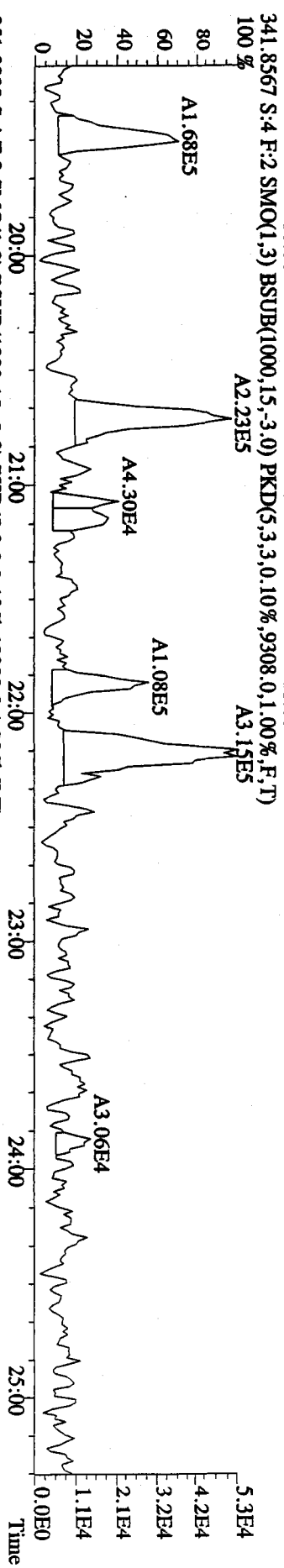
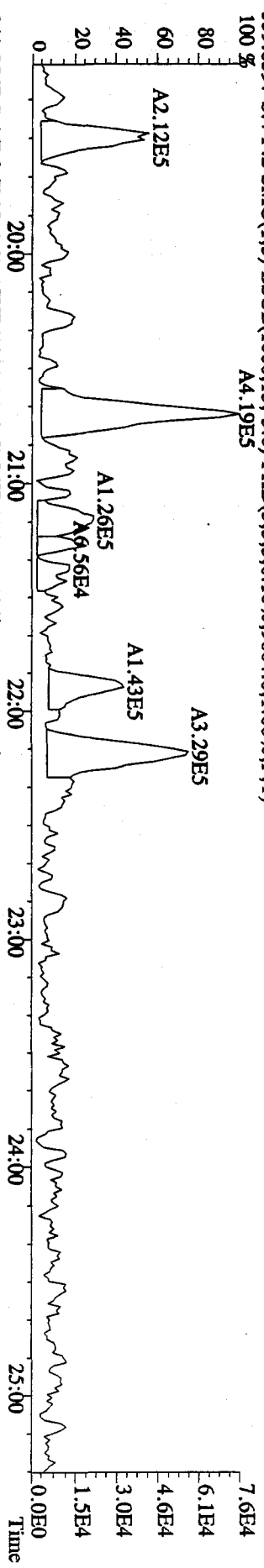
333.9339 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12700.0,1.00%,F,T)



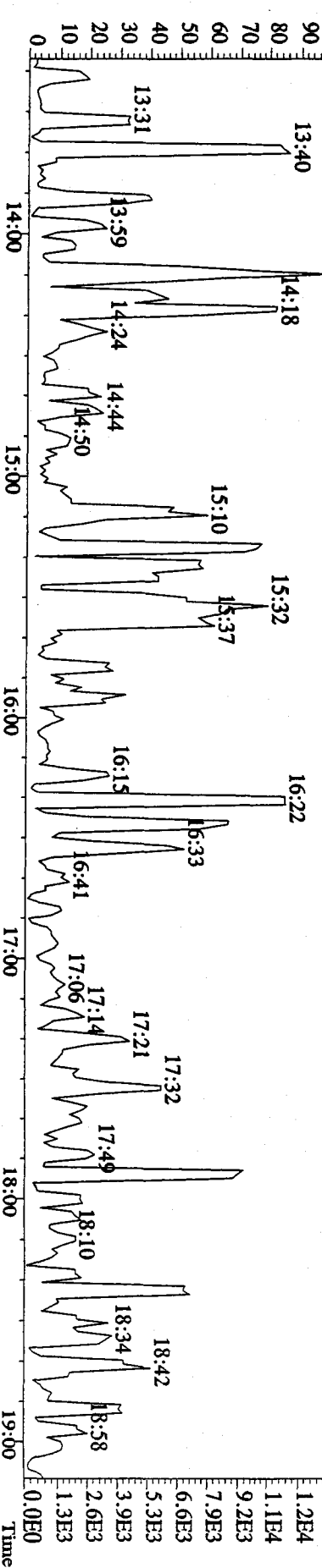
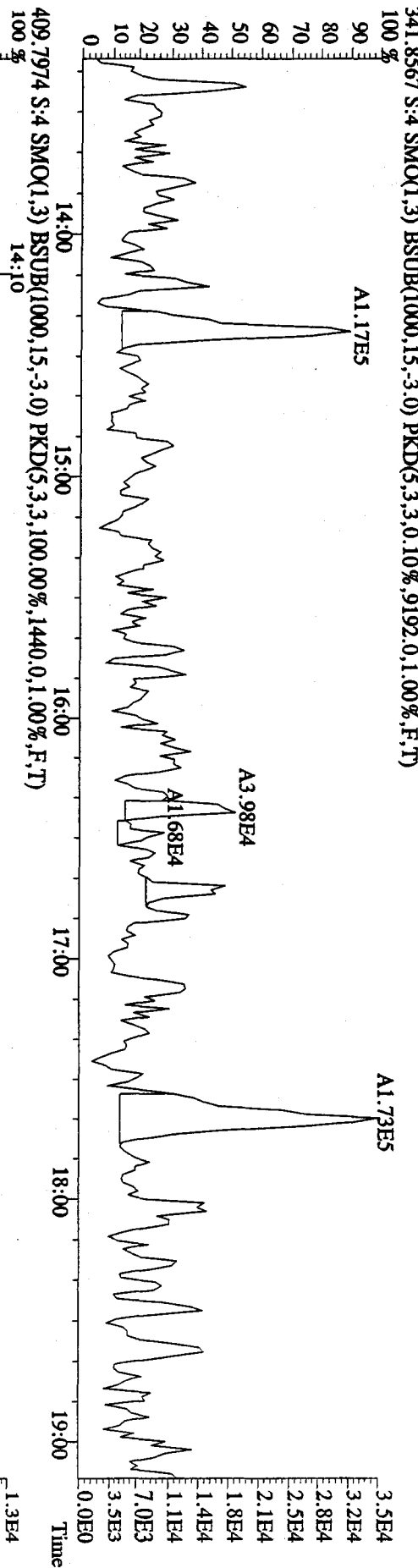
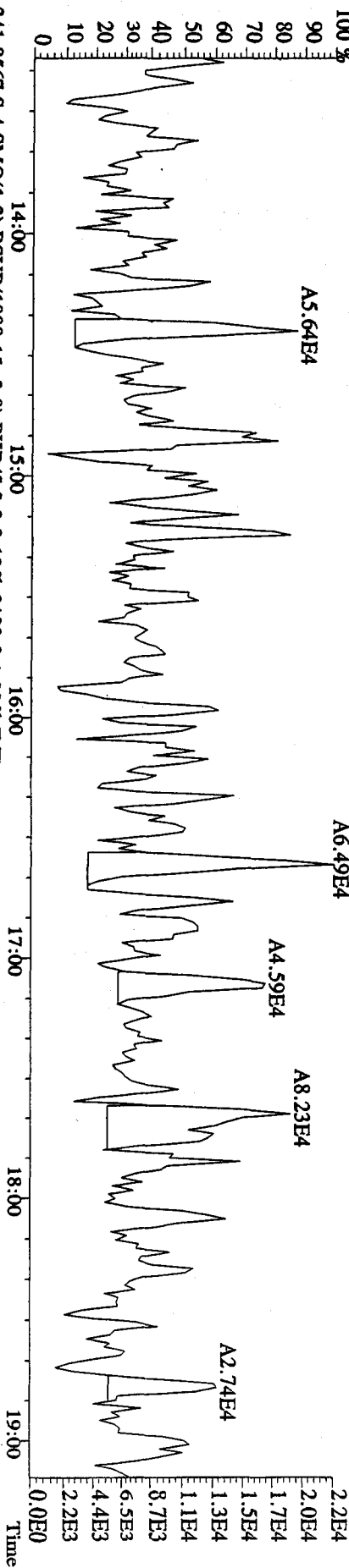
File:17DE091D5 #1-348 Acq:17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LQ3ME-1-AA :G9L140000-326B Exp:DIOXIN
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11092,0,1,00%,F,T)
 100%



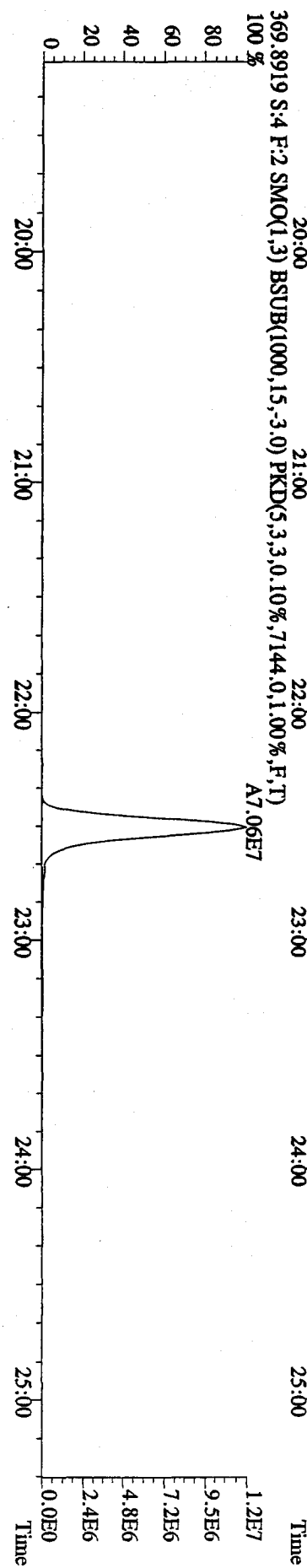
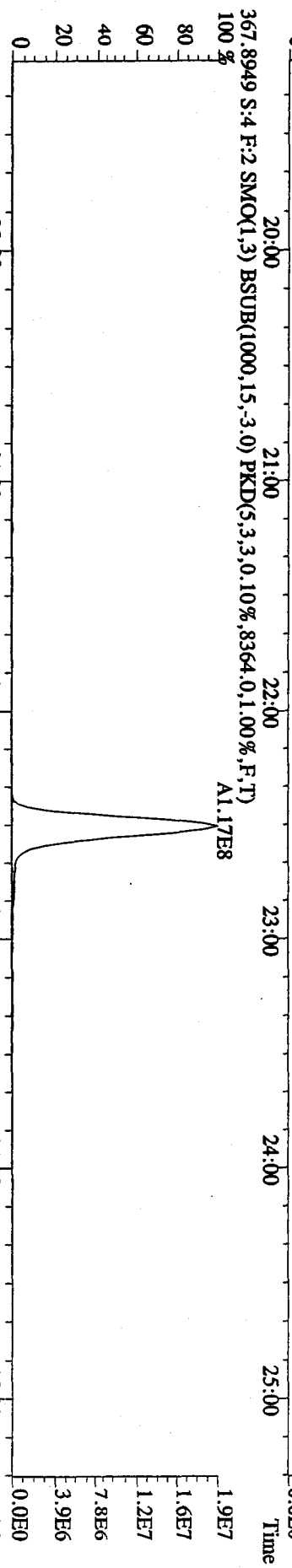
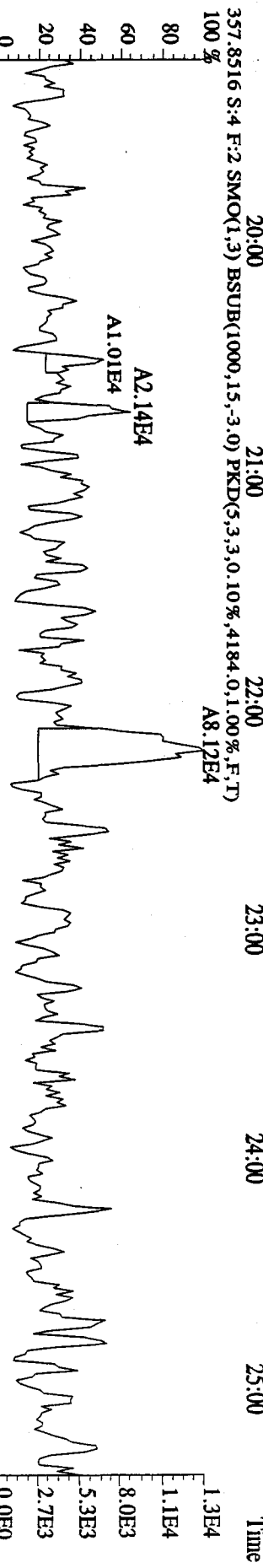
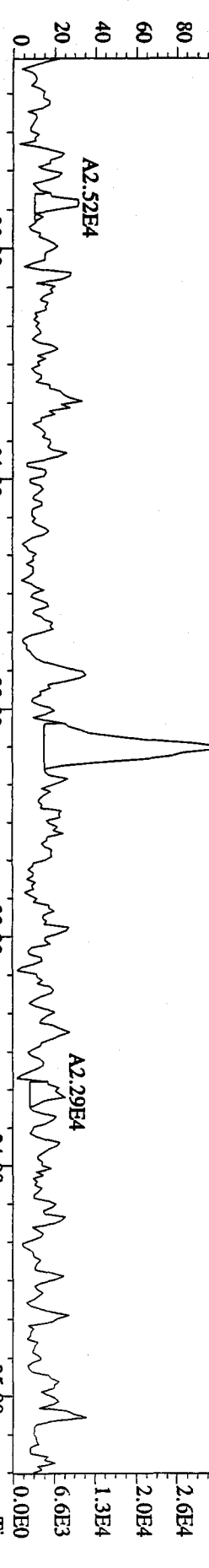
File:17DE091D5 #1-434 Acq:17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LQ3ME-1-AA :G9L14000-326B Exp:DIOXIN
 339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9804,0.1,00%,F,T)
 100 % A4.19E5



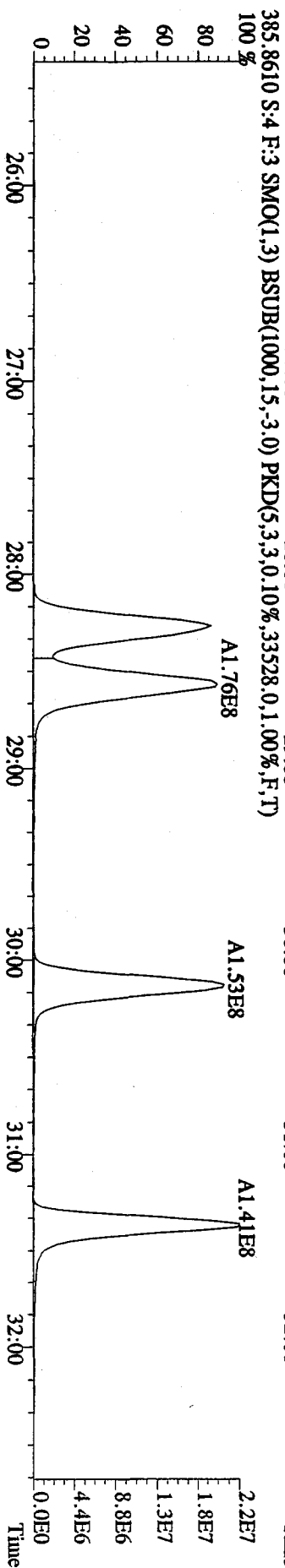
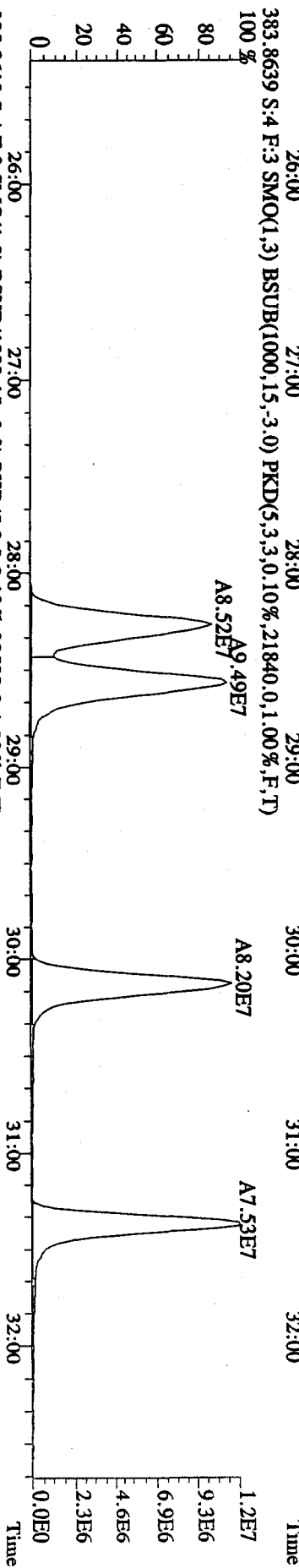
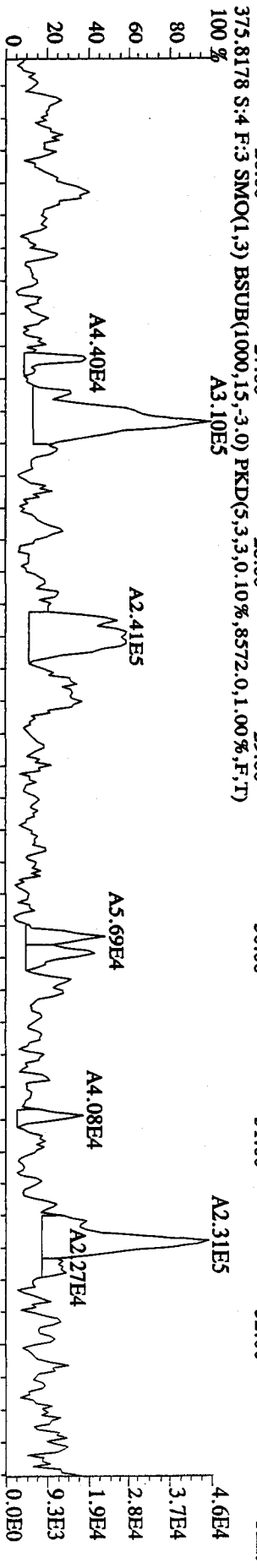
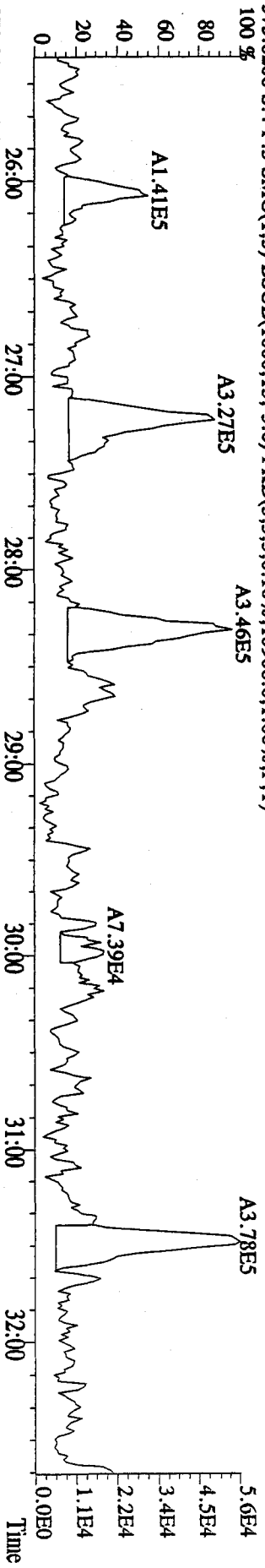
File:17DE091D5 #1-348 Acq:17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LO3ME-1-AA :G9L140000-326B Exp:DIOXIN
 339.8597 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10120.0,1.00%,F,T)



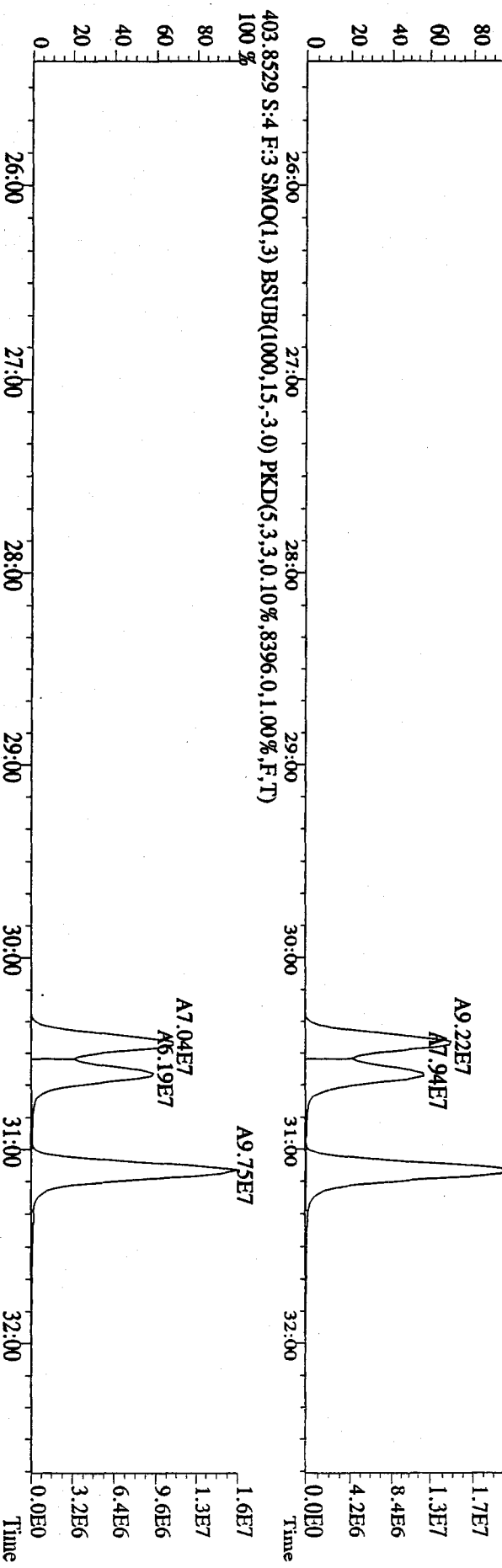
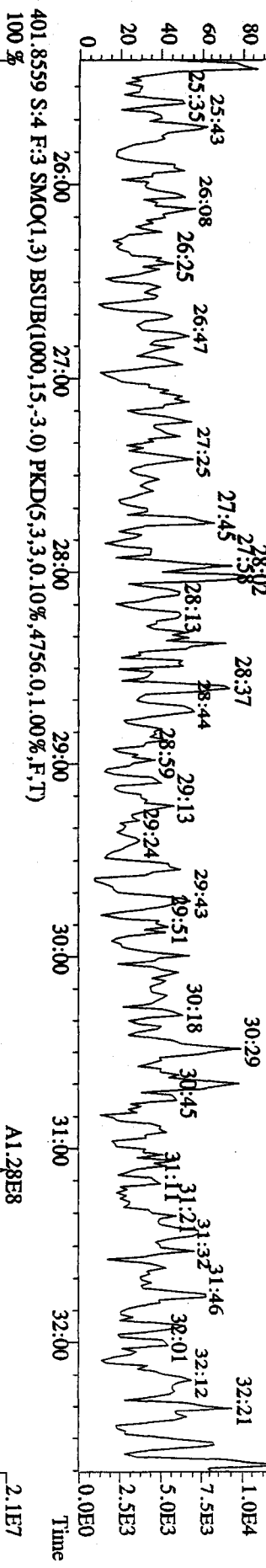
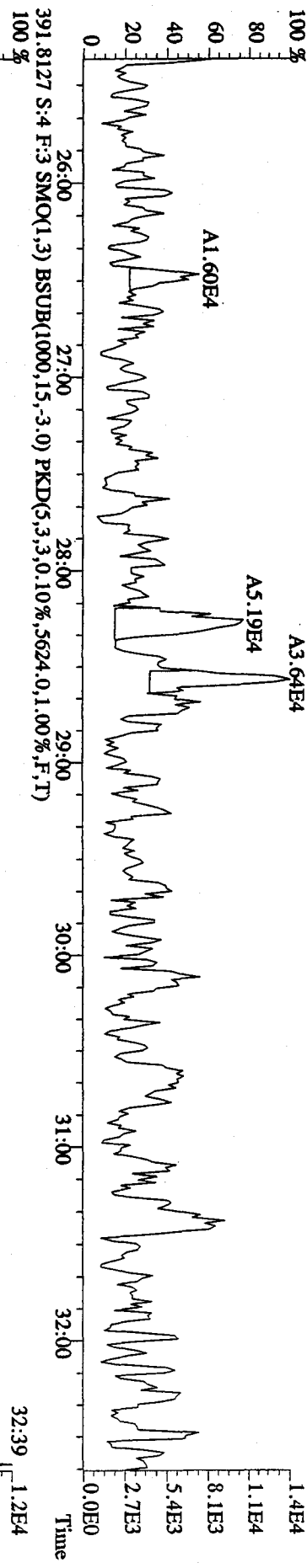
File:17DE091D5 #1-434 Acq:17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LQ3ME-1-AA :G9L14000-326B Exp:DIOXIN
 355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5752,0,1.00%,F,T)
 100%



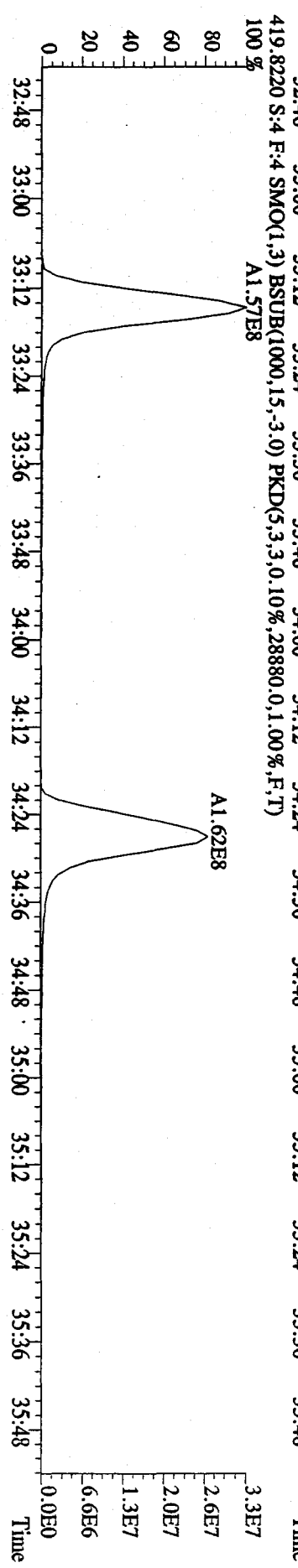
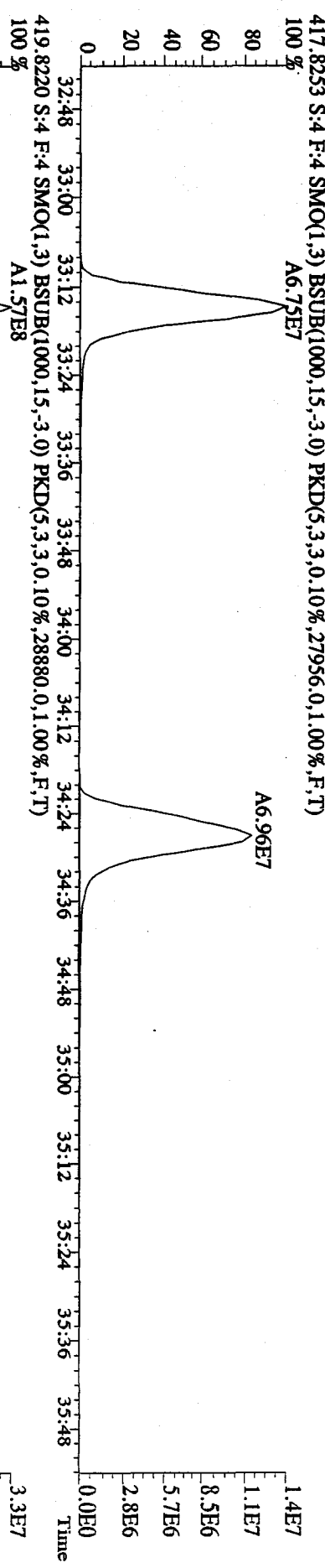
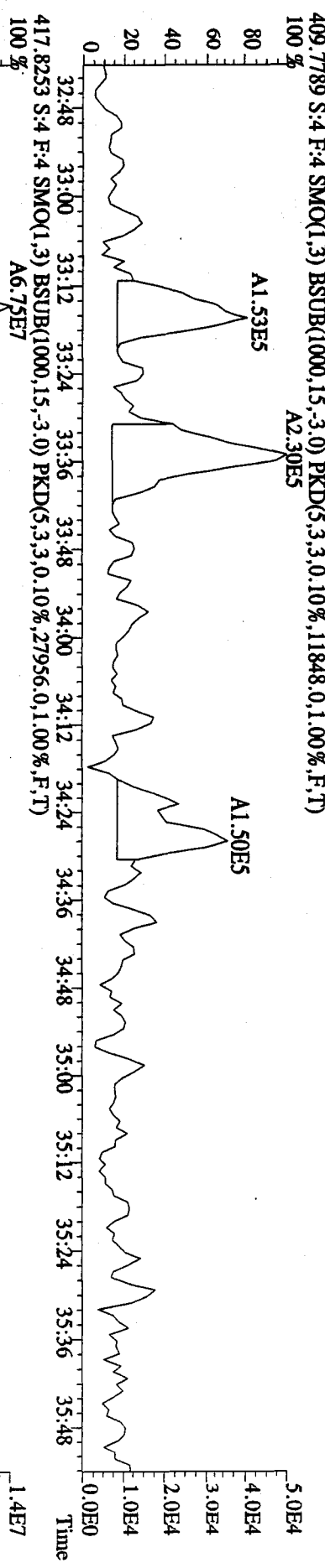
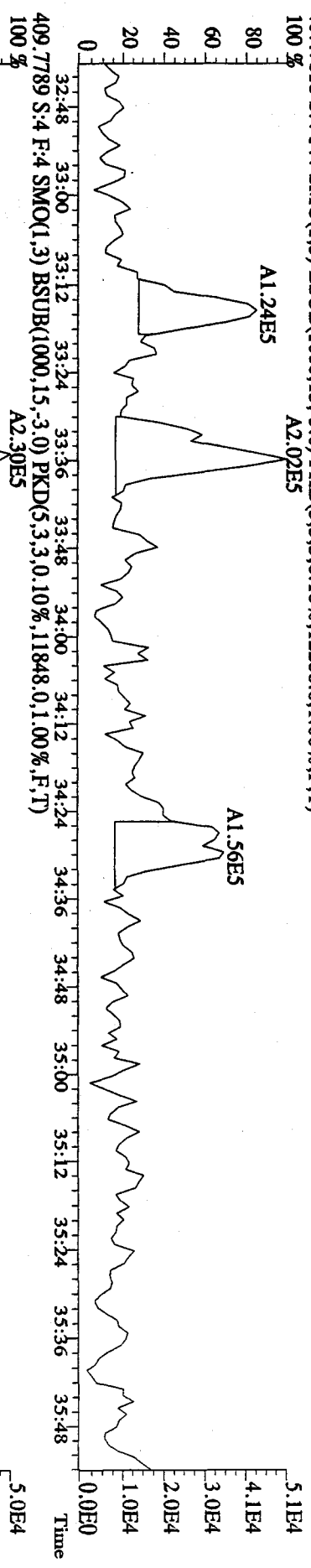
File: 17DE091D5 #1-492 Acq: 17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE
 Sample#4 Text: LQ3ME-1-AA : G9L14000-326B Exp: DIOXIN
 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,10908,0,1,00%,F,T)
 100 %



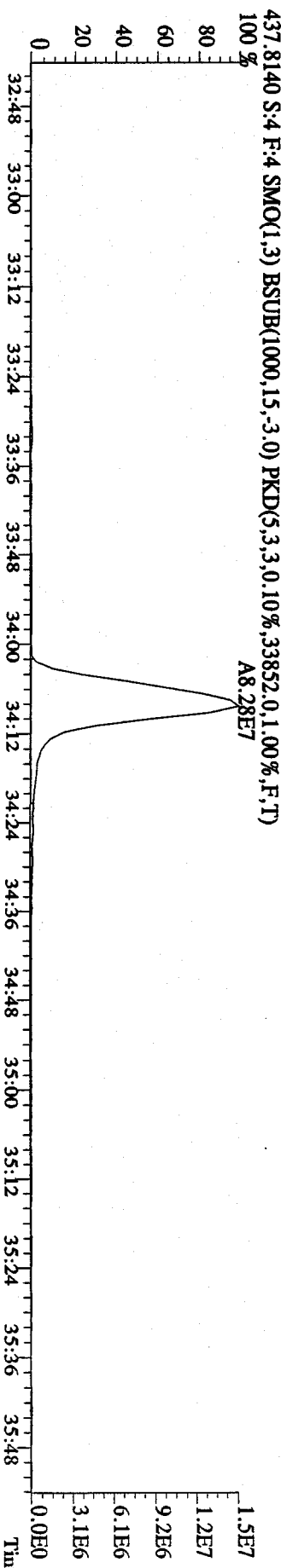
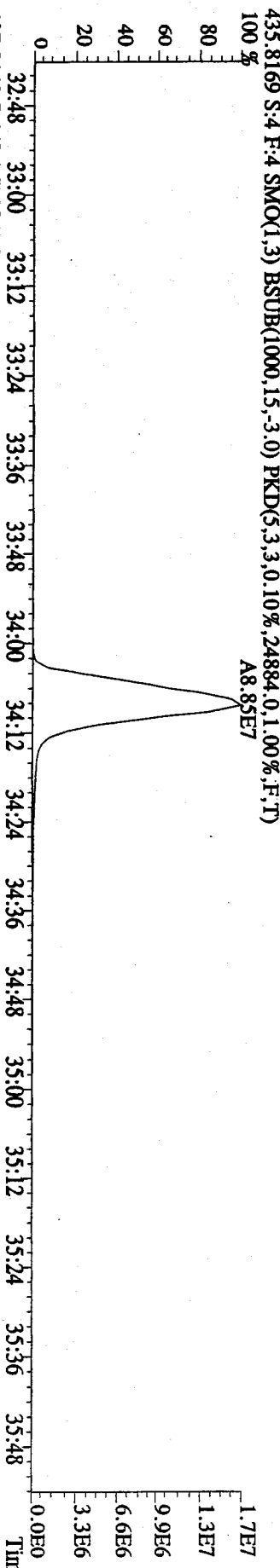
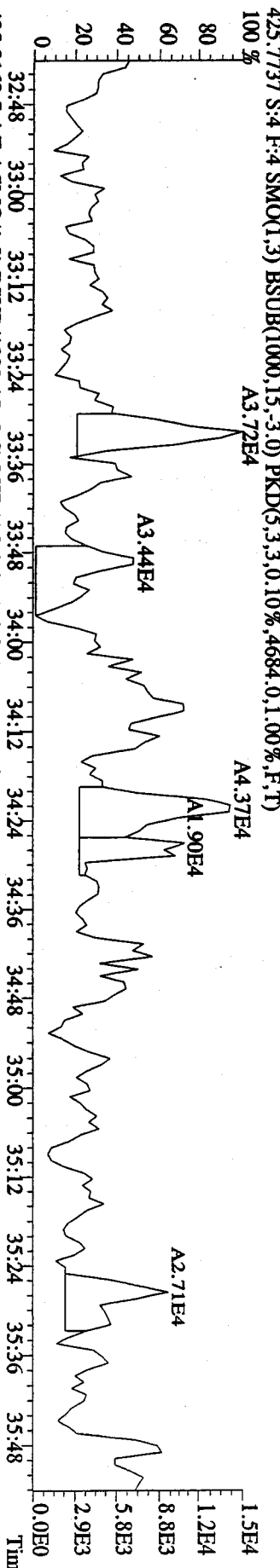
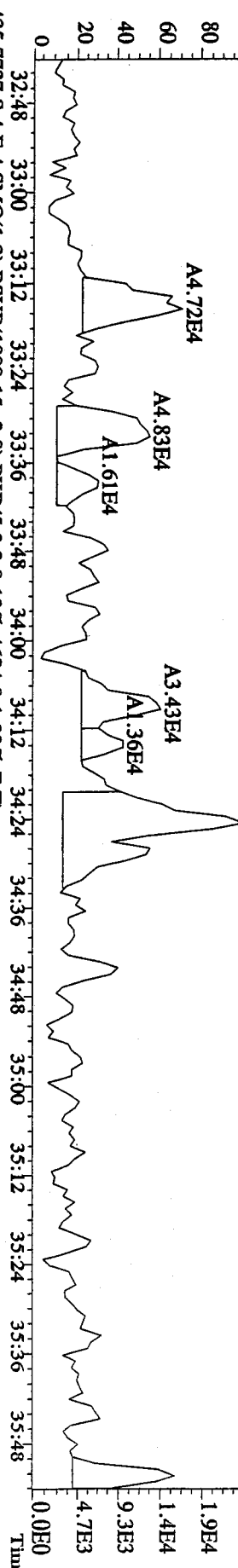
File: 17DE091D5 #1-492 Acq: 17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE
 Sample#4 Text: I03ME-1-AA : G9L14000-326B Exp: DIOXIN
 389.8157 S:4 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4064,0.1,00%,F,T)
 100%



File:17DE091D5 #1-226 Acq:17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE
 Sample#4 Text:LQ3ME-1-AA :G9L140000-326B Exp:DIOXIN
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,12288,0.1,00%,F,T)
 100%



File: 17DE091D5 #1-226 Acq: 17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE
 Sample#4 Text: LO3ME-1-AA :G9L140000-326B Exp: DIOXIN
 423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5576,0.1,00%,F,T)

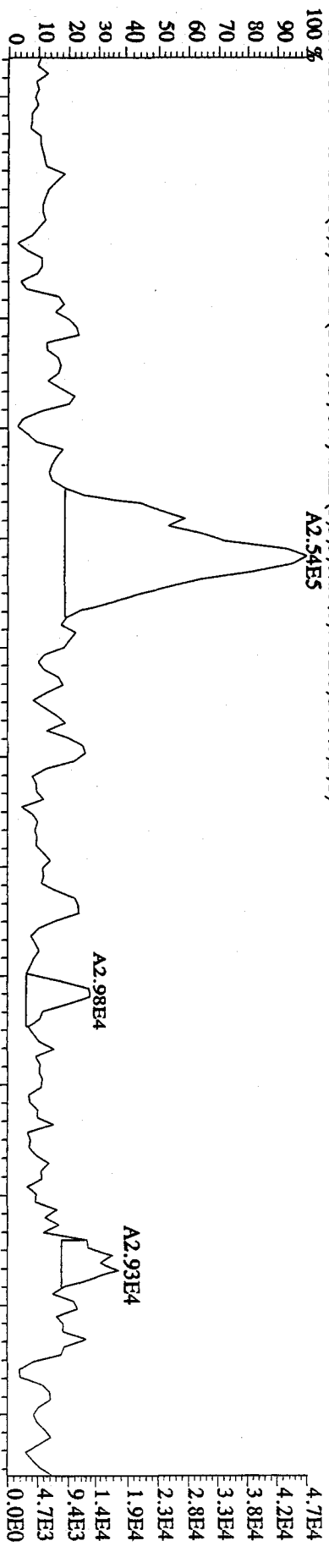


File: 17DE091D5 #1-187 Acq: 17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE

Sample#4 Text: LQ3ME-1-AA : G9L140000-326B Exp: DIOXIN

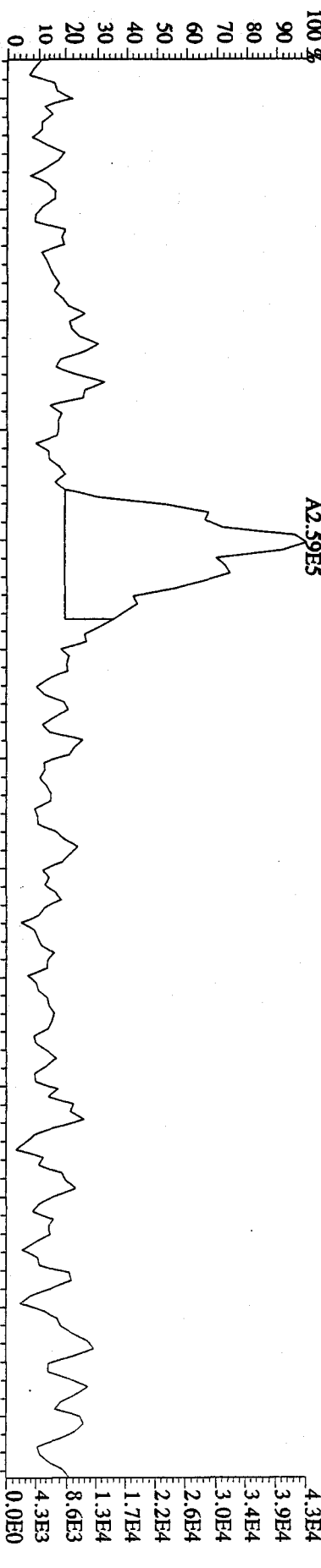
441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7152.0,1.00%,F,T)

100% A2.54E5

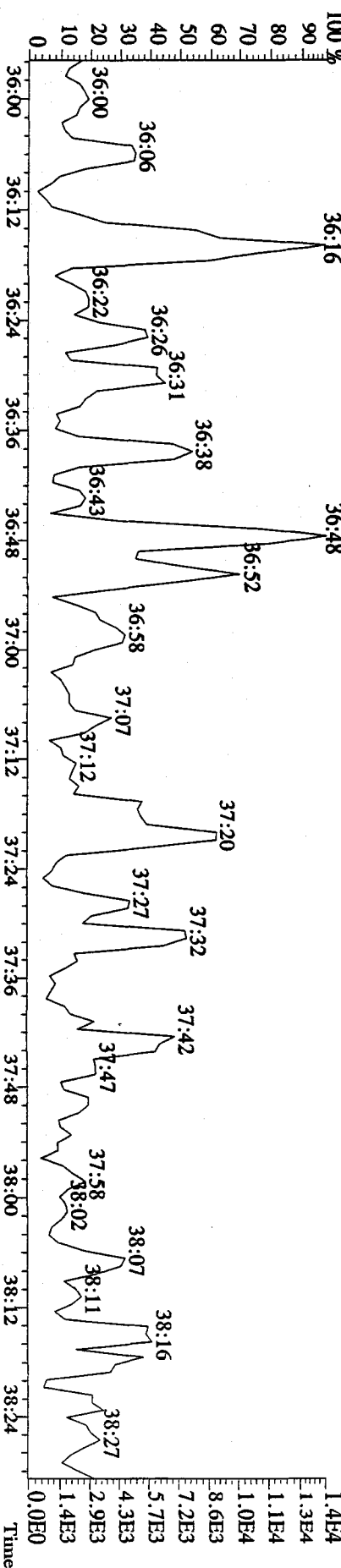


443.7399 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9120.0,1.00%,F,T)

100% A2.59E5



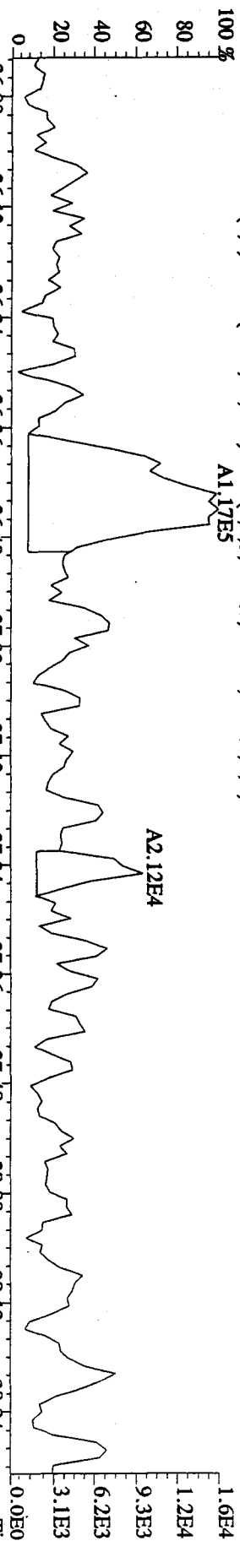
513.6775 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,100.00%,2904.0,1.00%,F,T)



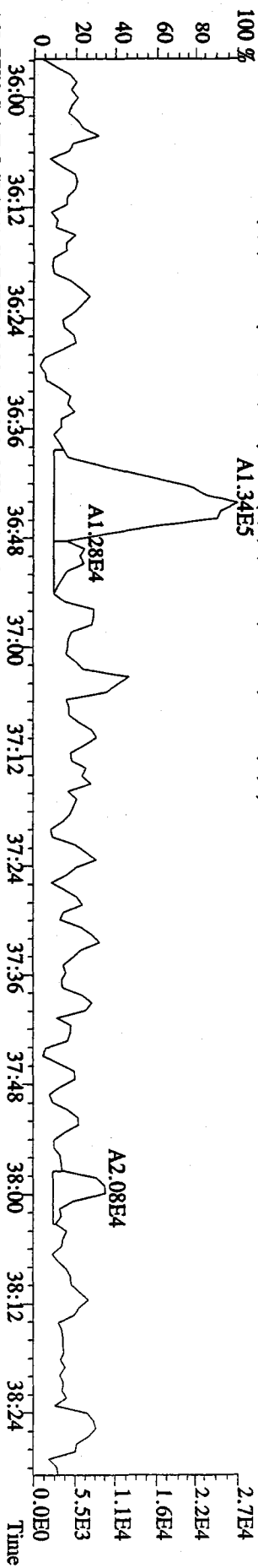
File:17DE091D5 #1-187 Acq:17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE

Sample#4 Text:LQ3ME-1-AA :G9L140000-326B Exp:DIOXIN

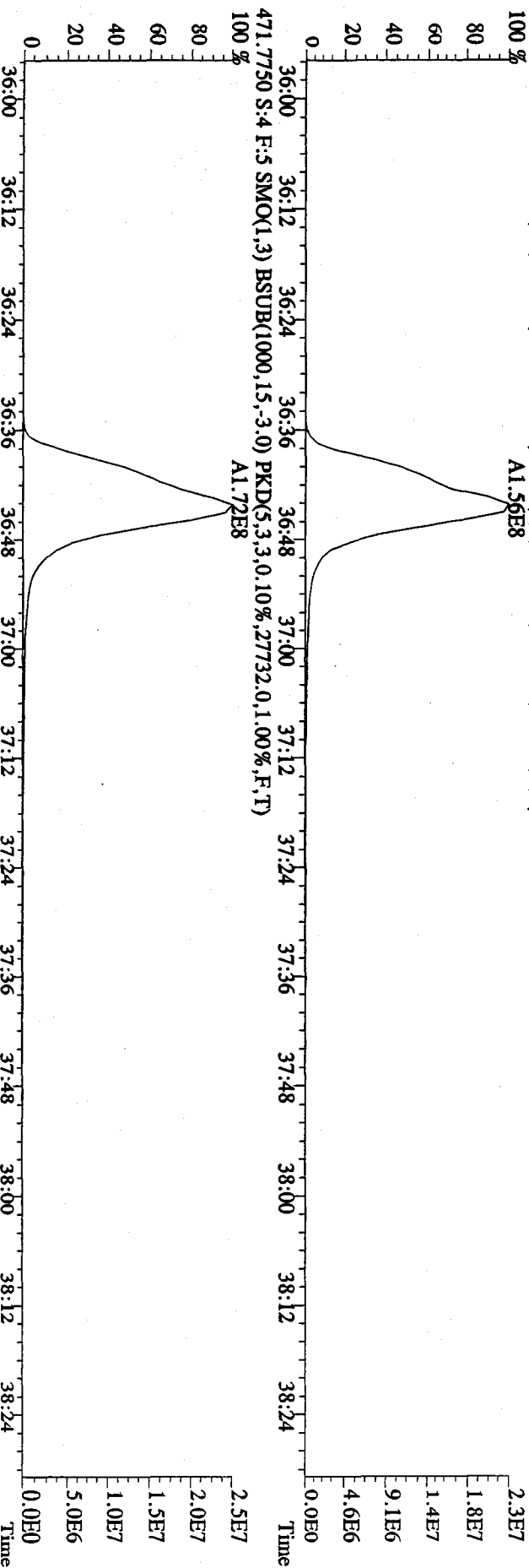
457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4448,0,1,00%,F,T)



459.7348 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5820,0,1,00%,F,T)



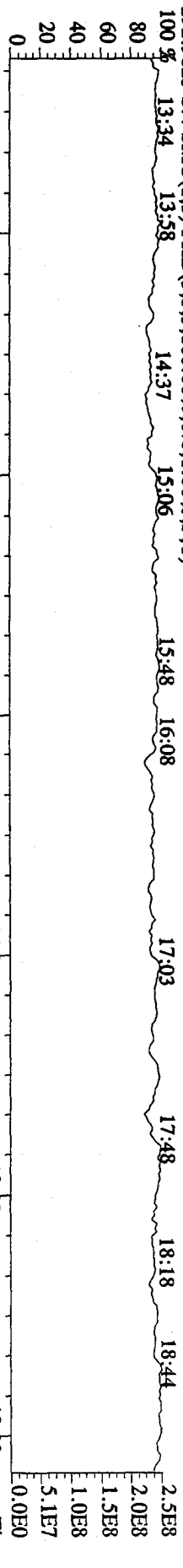
471.7750 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,27732,0,1,00%,F,T)



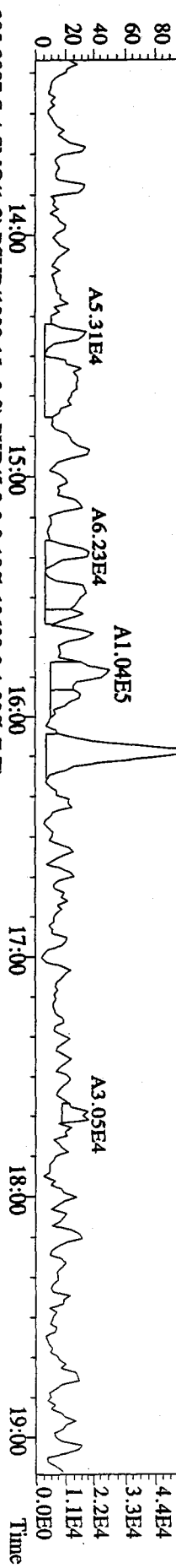
File:17DE091D5 #1-348 Acq:17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE

Sample#4 Text:LO3ME-1-AA :G9L140000-326B Exp:DIOXIN

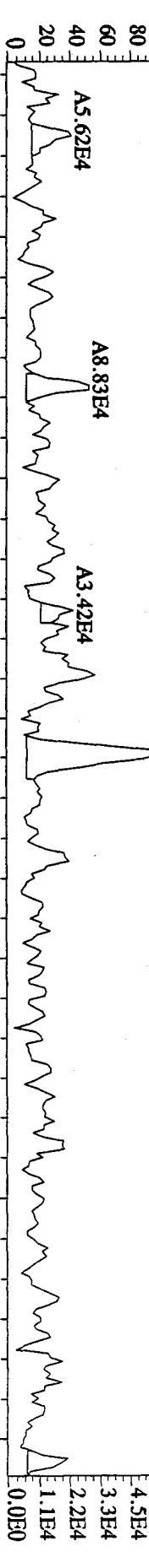
292.9825 S:4 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)



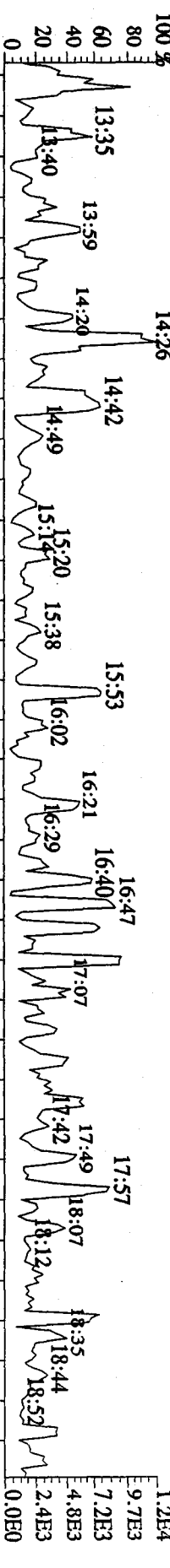
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10584,0,1,00%,F,T)



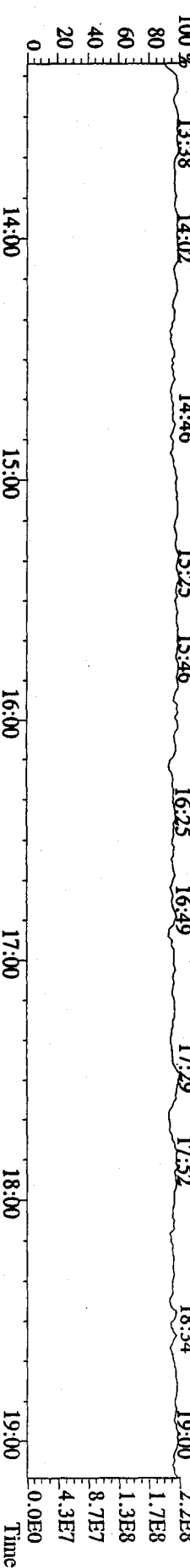
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,13600,0,1,00%,F,T)



375.8364 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,2524,0,1,00%,F,T)



330.9792 S:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

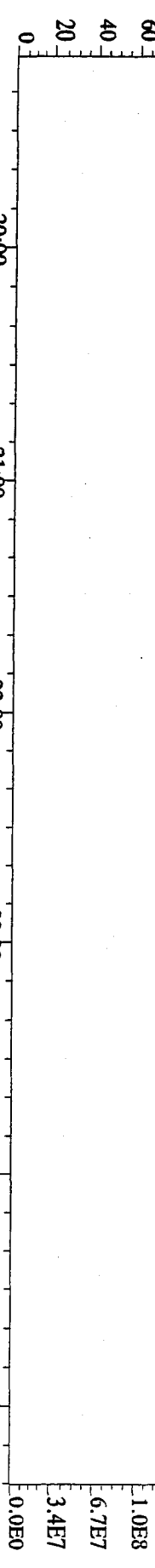


File: 17DE091D5 #1-434 Acq: 17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE

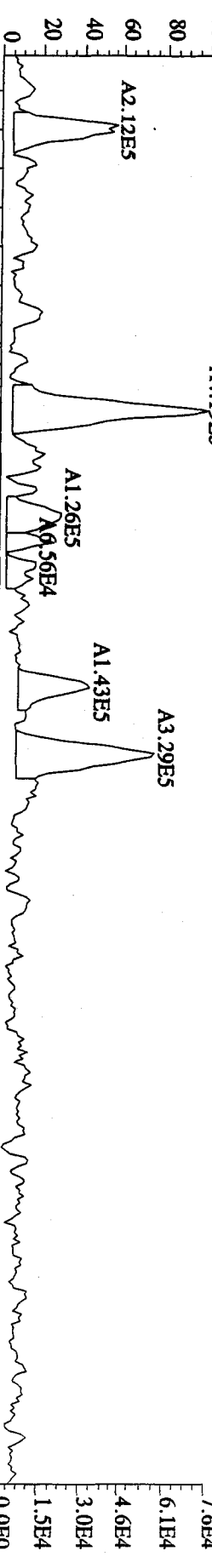
Sample#4 Text: LQ3ME-1-AA : G9L140000-326B Exp: DIOXIN

342.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

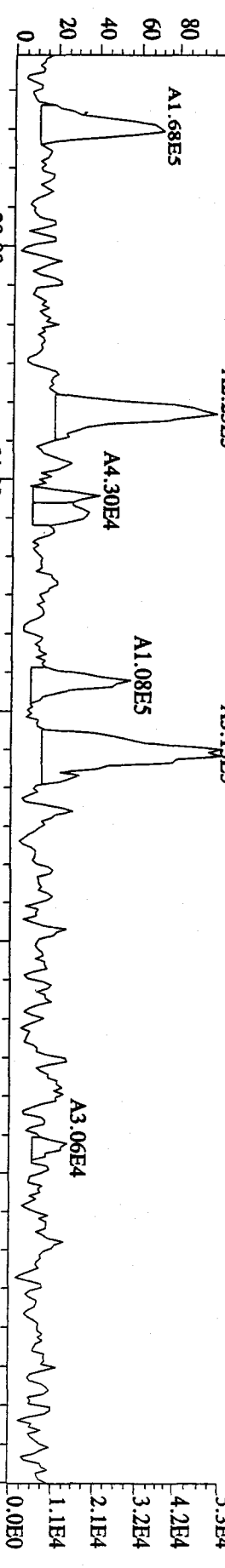
19:30 19:54 20:25 21:06 21:26 22:01 22:22 22:48 23:19 24:04 24:31 25:07



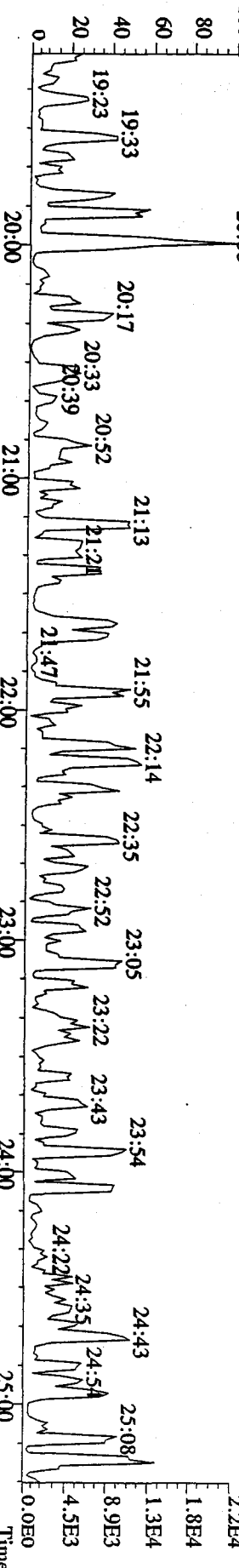
339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9804,0.1,00%,F,T)

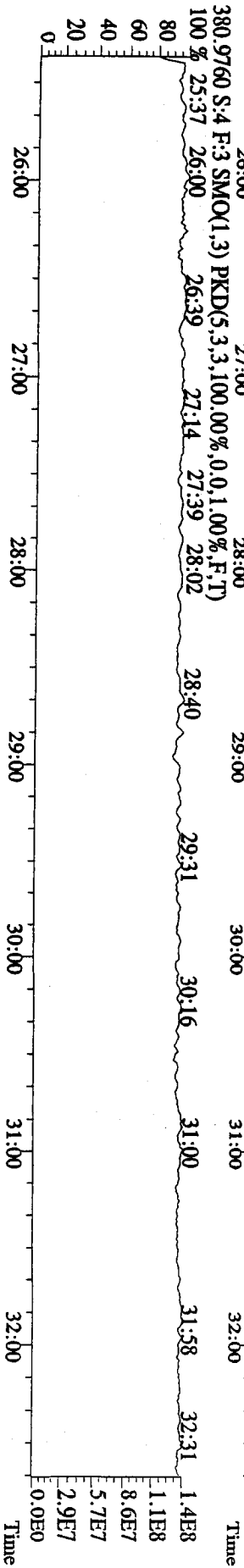
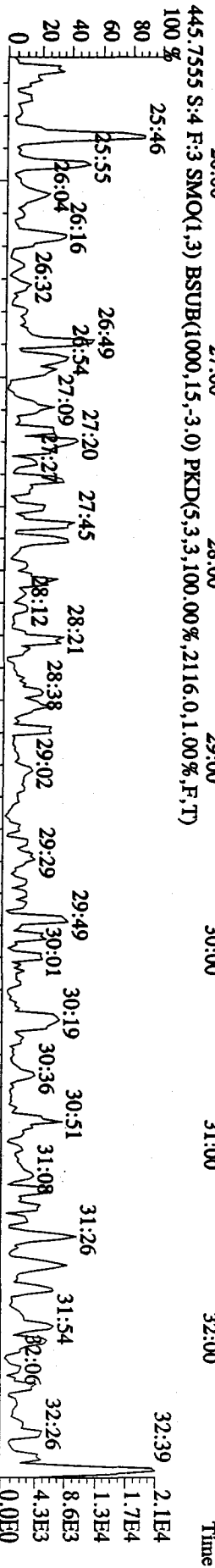
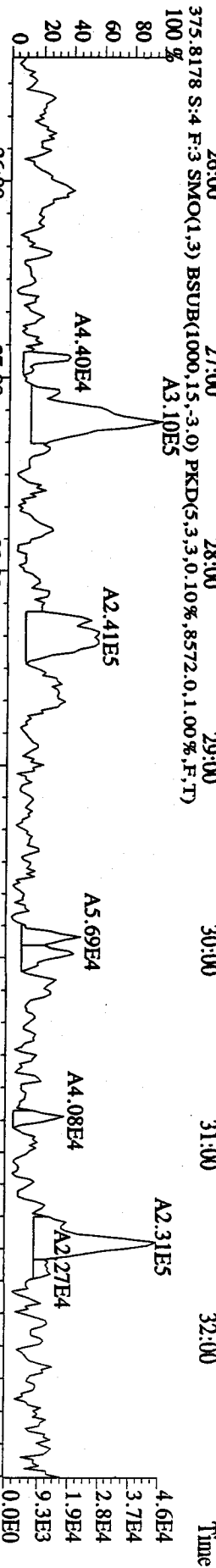
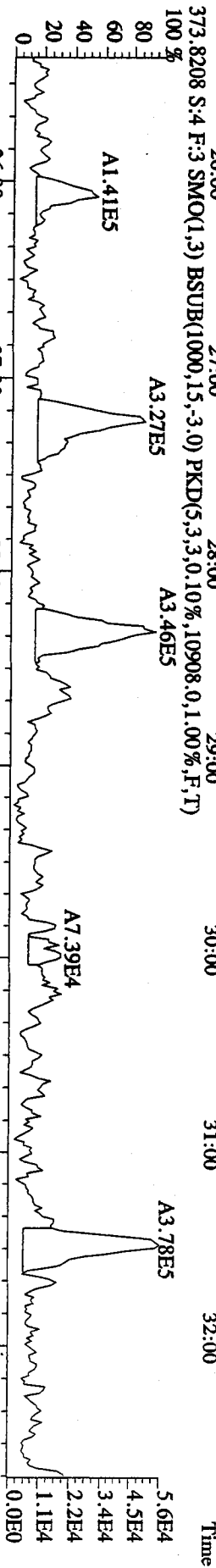
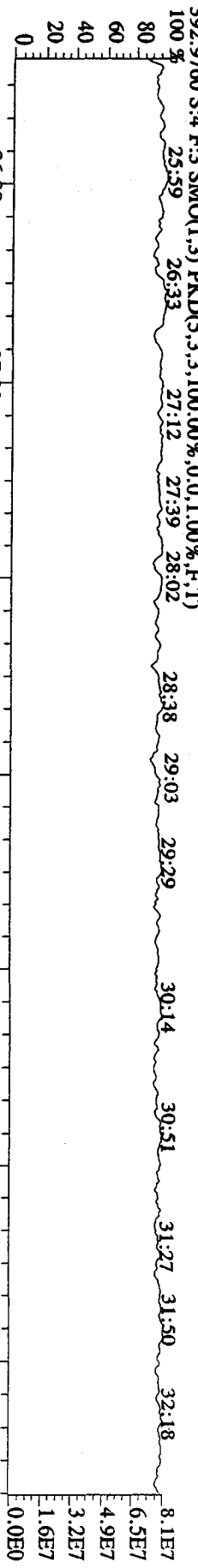


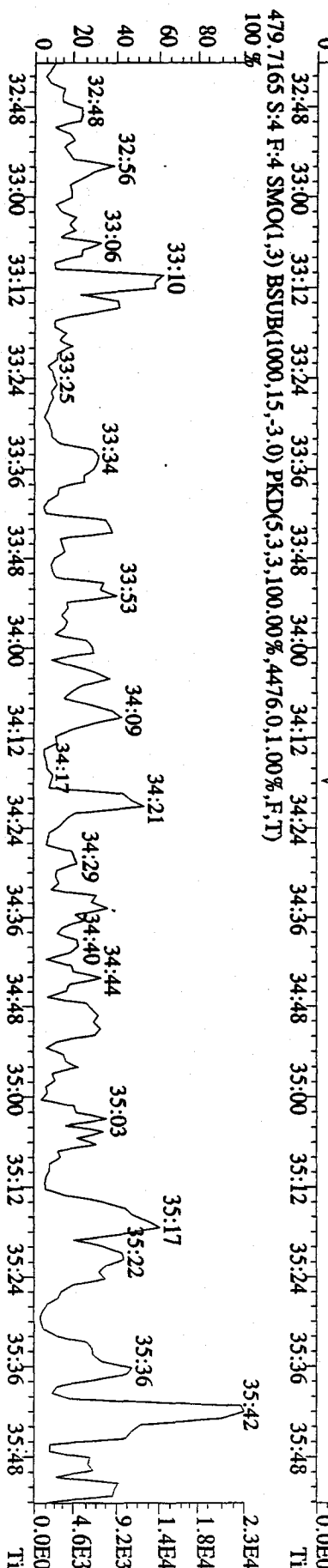
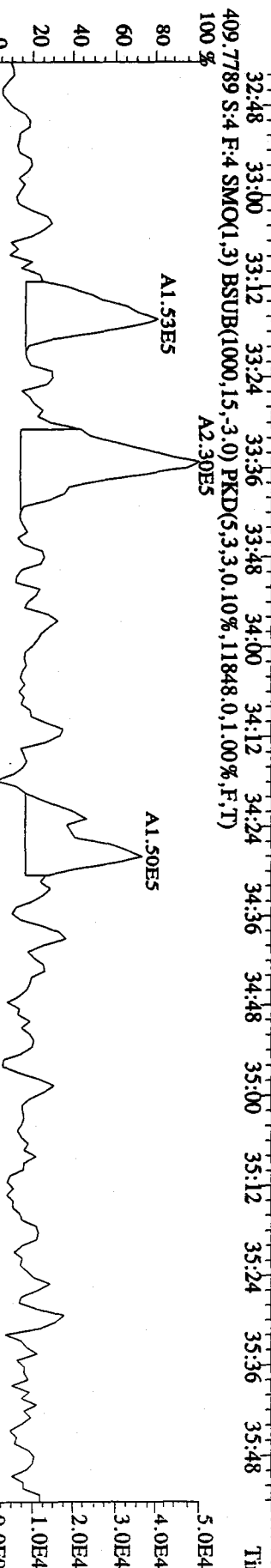
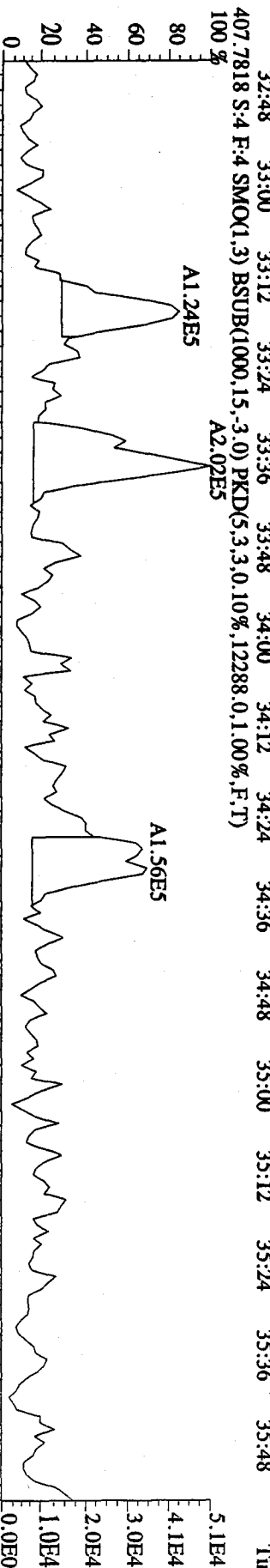
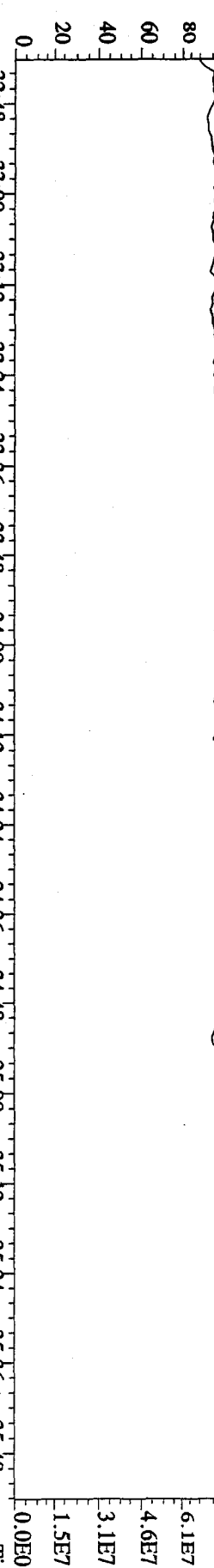
341.8567 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9308,0.1,00%,F,T)



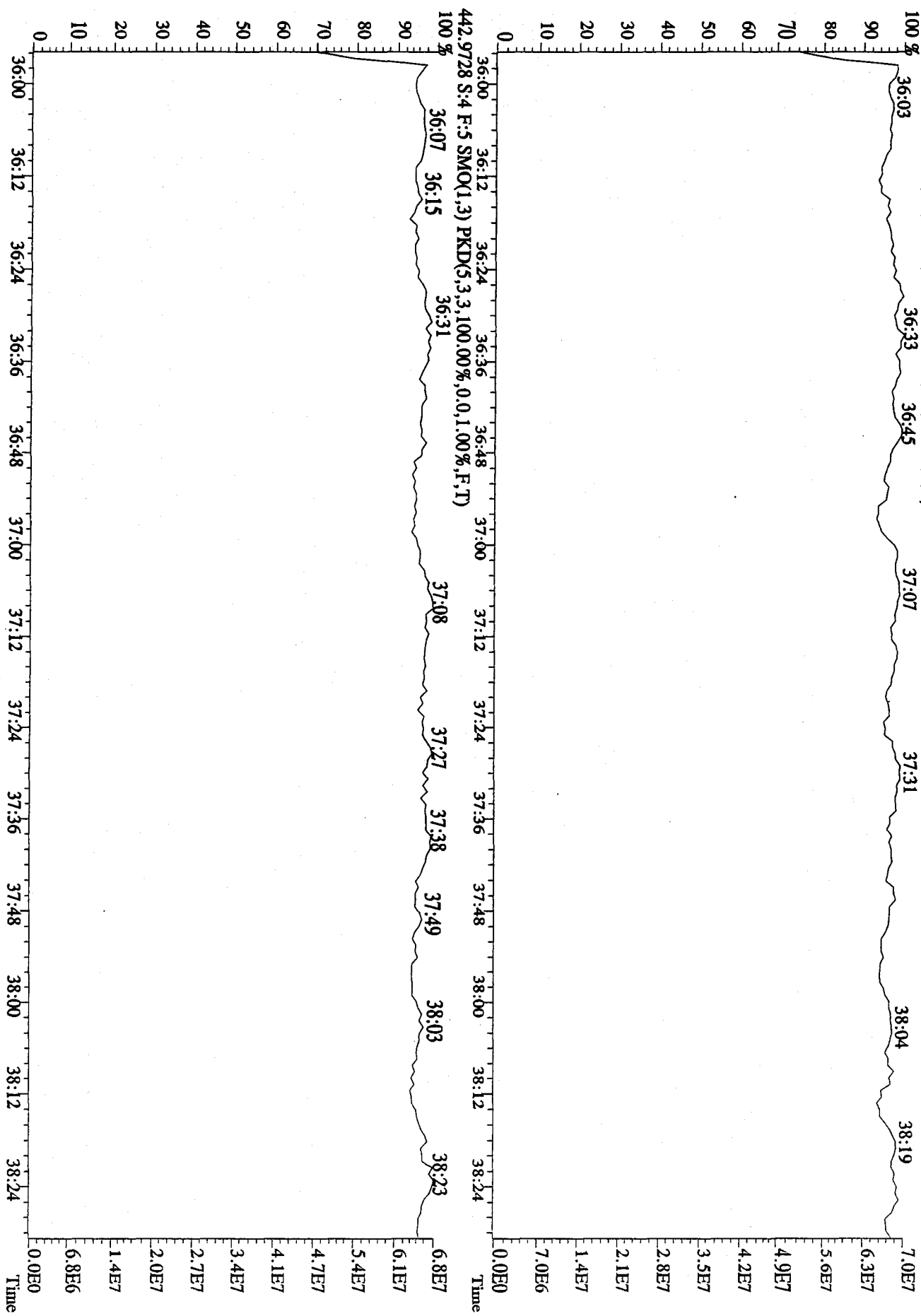
409.7974 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,3140,0.1,00%,F,T)







File: 17DE091D5 #1-187 Acq: 17-DEC-2009 10:53:06 GC EI+ Voltage SIR 70SE
 Sample#4 Text: LQ3ME-1-AA :G9L140000-326B Exp: DIOXIN
 454.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

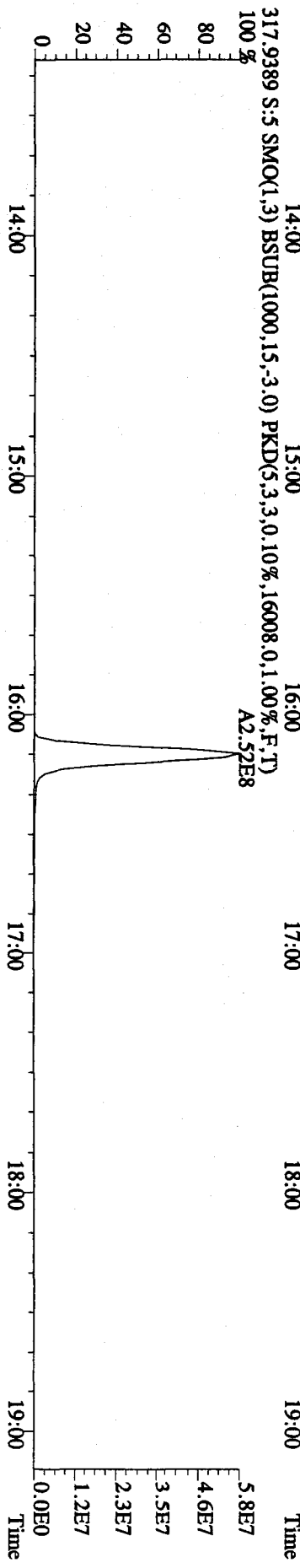
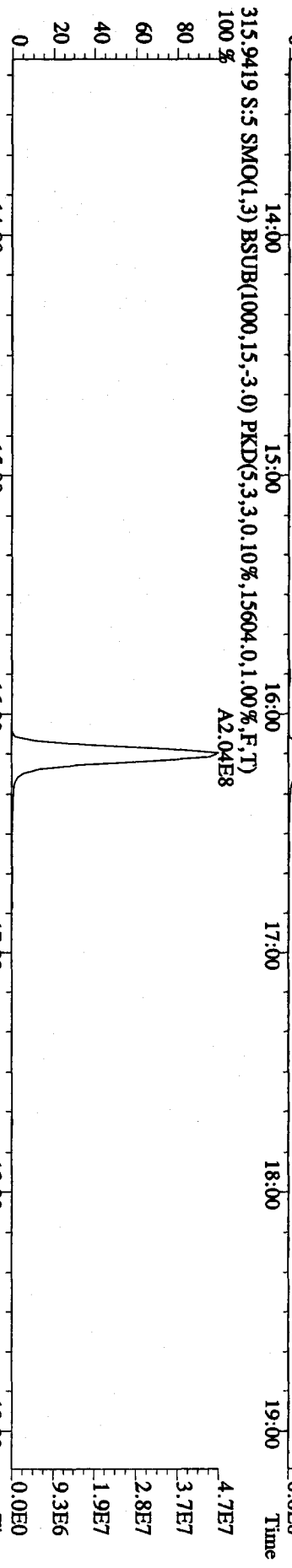
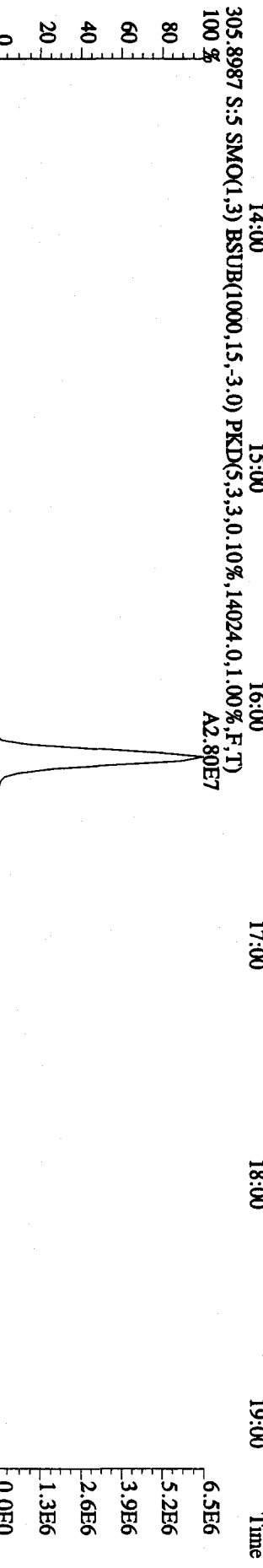
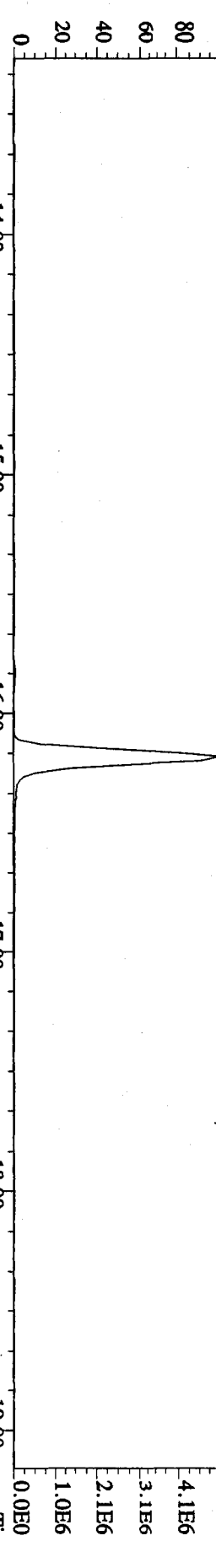


Run text: LQ3ME-1-AC Sample text: LQ3ME-1-AC :G9L140000-326C
 Run #9 Filename: 17DE091D5 S: 5 I: 1 Results: 17DE091D58290
 Acquired: 17-DEC-09 11:34:59 Processed: 17-DEC-09 13:51:51
 Run: 17DE091D5 Analyte: 8290 Cal: 82901215091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.000000L

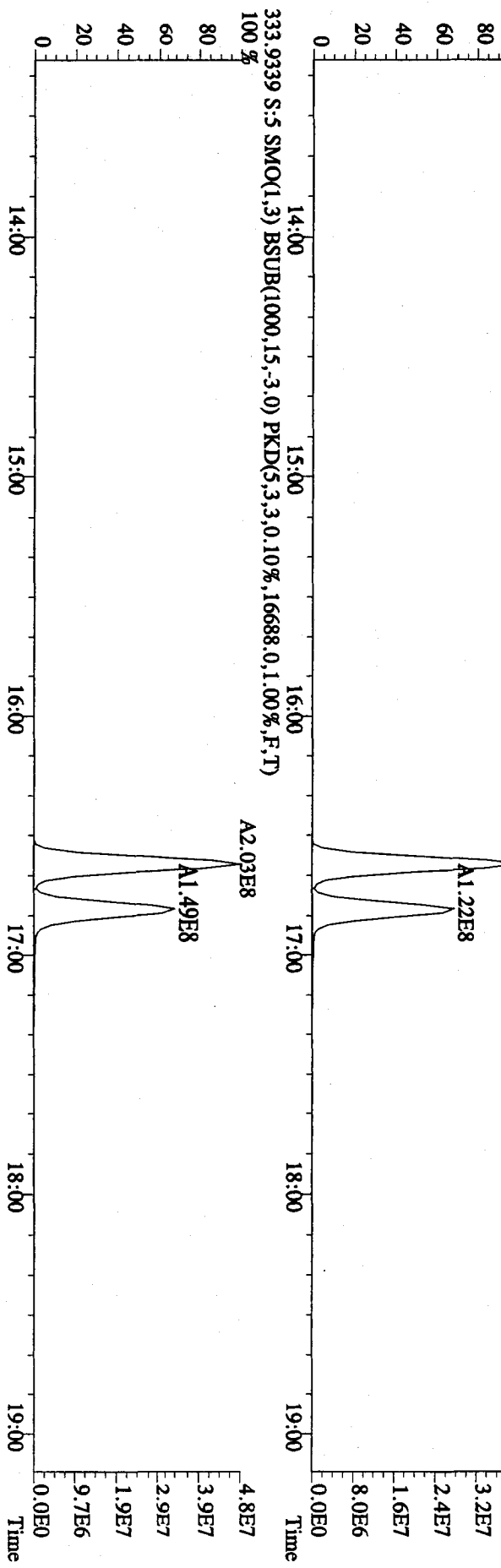
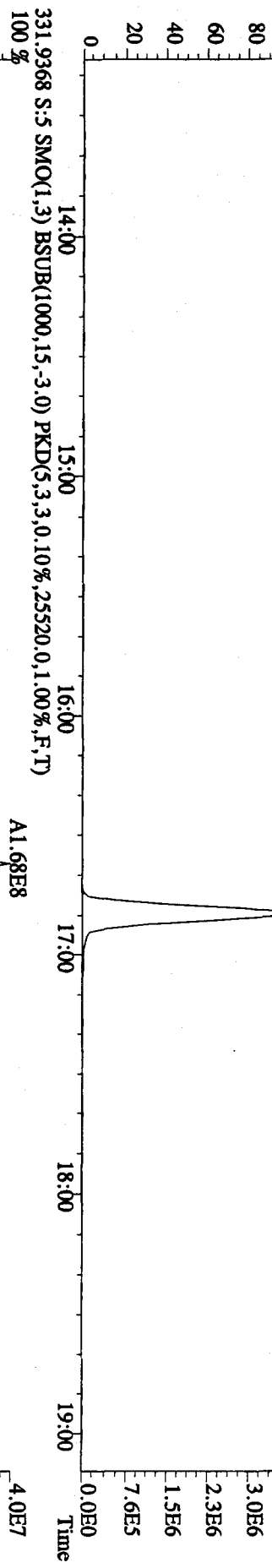
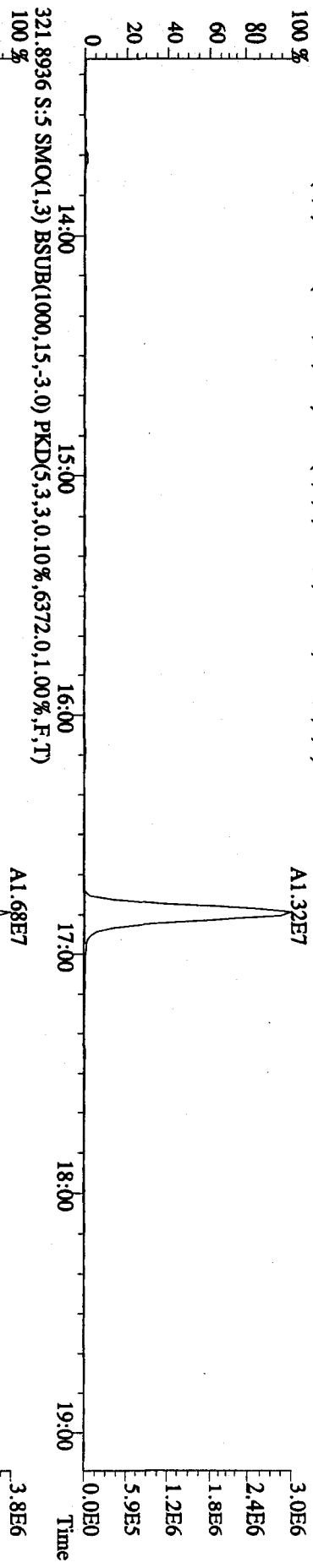
Handwritten:
 12/17/09
 [Signature]

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	370686000	0.83 y	16:37	-	139.35	-	-	n
13C-2,3,7,8-TCDF	456216000	0.81 y	16:10	1.65	1490.26	1.30	74.5	n
2,3,7,8-TCDF	50319200	0.80 y	16:11	1.13	196.00	1.38	-	n
Total TCDF	50731437	0.91 n	15:50	1.13	197.60	1.38	-	n
13C-2,3,7,8-TCDD	271001000	0.81 y	16:48	0.94	1549.31	3.03	77.5	n
2,3,7,8-TCDD	30030200	0.79 y	16:49	1.19	186.99	1.05	-	n
Total TCDD	30126984	0.79 y	16:49	1.19	187.59	1.05	-	n
37Cl-2,3,7,8-TCDD	320374000	1.00 y	16:49	2.77	623.07	0.56	77.9	n
13C-1,2,3,7,8-PeCDF	313994000	1.65 y	20:43	1.19	1427.86	1.63	71.4	n
1,2,3,7,8-PeCDF	200126800	1.62 y	20:44	1.33	956.77	1.88	-	n
2,3,4,7,8-PeCDF	189103700	1.60 y	21:56	1.27	951.07	1.97	-	n
Total F2 PeCDF	391848684	1.33 y	19:30	1.30	1920.67	1.92	-	n
Total F1 PeCDF	186006	0.46 n	17:40	1.30	0.91	1.33	-	n
13C-1,2,3,7,8-PeCDD	172097000	1.66 y	22:33	0.63	1463.10	2.09	73.2	n
1,2,3,7,8-PeCDD	104599600	1.66 y	22:35	1.26	967.24	2.06	-	n
Total PeCDD	104699388	4.92 n	22:14	1.26	968.16	2.06	-	n
13C-1,2,3,7,8,9-HxCDD	222607600	1.29 y	31:09	-	115.75	-	-	n
13C-1,2,3,4,7,8-HxCDF	235235600	0.54 y	28:20	1.27	1662.67	4.86	83.1	n
1,2,3,4,7,8-HxCDF	152273400	1.26 y	28:22	1.28	1009.65	6.29	-	n
1,2,3,6,7,8-HxCDF	162363700	1.25 y	28:40	1.39	995.63	5.81	-	n
2,3,4,6,7,8-HxCDF	153254100	1.27 y	30:12	1.30	1000.21	6.19	-	n
1,2,3,7,8,9-HxCDF	143002200	1.27 y	31:25	1.16	1049.47	6.96	-	n
Total HxCDF	610893400	1.26 y	28:22	1.28	4054.96	6.29	-	n
13C-1,2,3,6,7,8-HxCDD	128396400	1.35 y	30:38	0.72	1596.95	2.54	79.8	n
1,2,3,4,7,8-HxCDD	81001700	1.30 y	30:30	1.26	999.14	2.20	-	n
1,2,3,6,7,8-HxCDD	92954300	1.28 y	30:40	1.39	1040.91	1.99	-	n
1,2,3,7,8,9-HxCDD	99278000	1.29 y	31:10	1.47	1054.15	1.89	-	n
Total HxCDD	273234000	1.30 y	30:30	1.37	3094.20	2.02	-	n
13C-1,2,3,4,6,7,8-HpCDF	207799600	0.43 y	33:16	1.05	1778.55	9.81	88.9	n
1,2,3,4,6,7,8-HpCDF	164187000	1.07 y	33:17	1.55	1020.32	2.93	-	n
1,2,3,4,7,8,9-HpCDF	146632000	1.07 y	34:29	1.31	1079.71	3.48	-	n
Total HpCDF	311901279	1.07 y	33:17	1.43	2107.32	3.18	-	n
13C-1,2,3,4,6,7,8-HpCDD	156658300	1.07 y	34:09	0.76	1855.99	10.12	92.8	n
1,2,3,4,6,7,8-HpCDD	99852400	1.10 y	34:10	1.28	998.21	2.56	-	n
Total HpCDD	100002282	0.94 y	33:33	1.28	999.71	2.56	-	n
13C-OCDD	305039000	0.92 y	36:45	0.72	3825.26	10.48	95.6	n
OCDF	247252000	0.91 y	36:51	1.58	2055.28	2.61	-	n
OCDD	173037400	0.91 y	36:46	1.13	2015.09	2.64	-	n

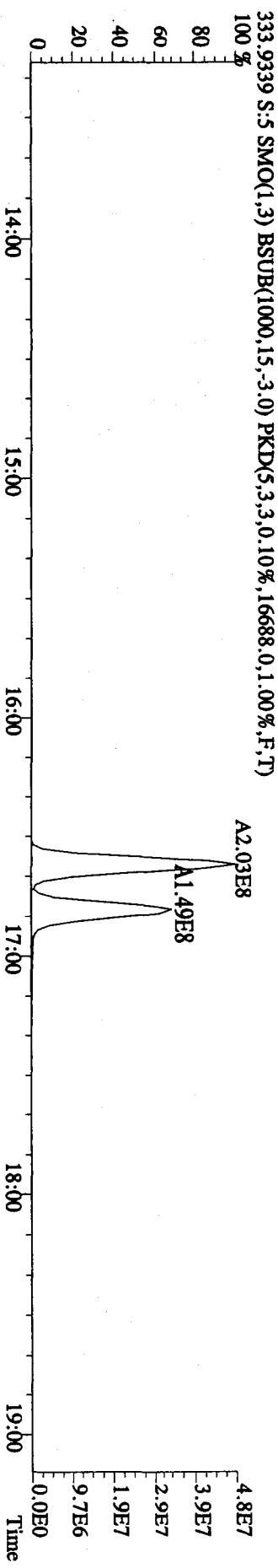
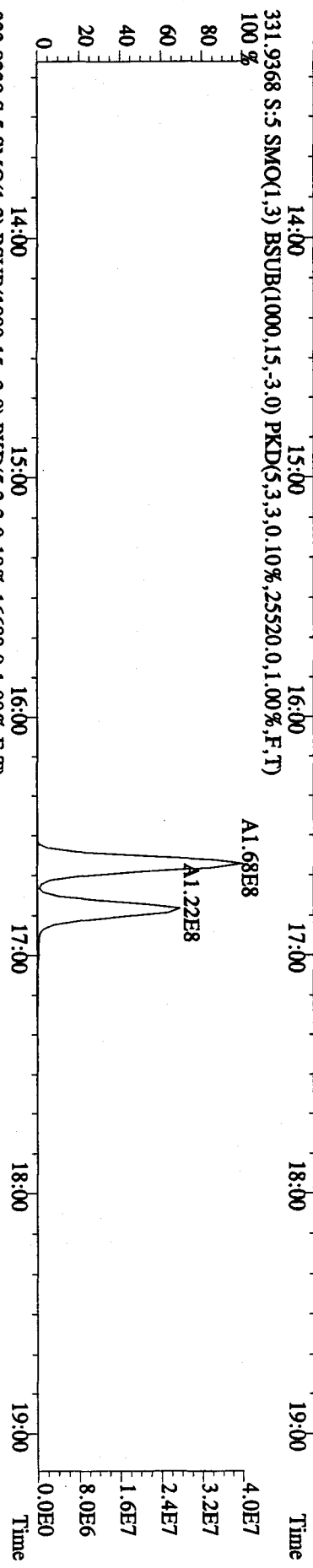
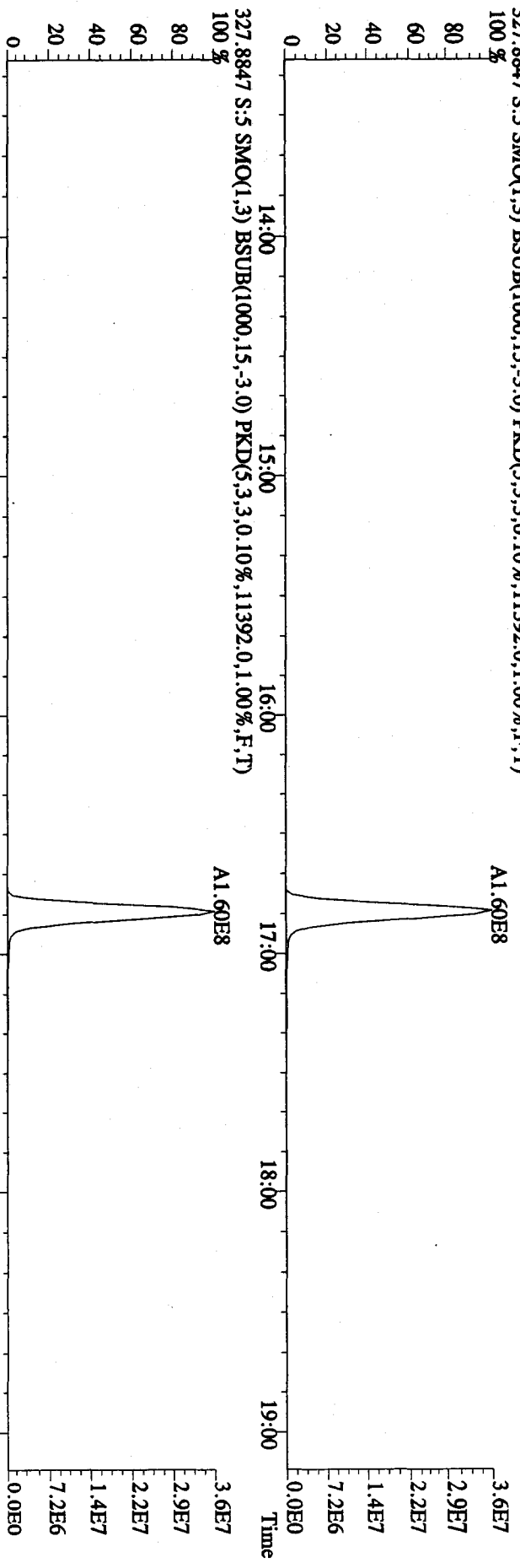
File:17DE091D5 #1-349 Acq:17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LO3ME-1-AC :G9L140000-326C Exp:DIOXIN
 303.9016 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,13012,0,1,00%,F,T)
 100% A2.24E7



File: 17DE091D5 #1-349 Acq: 17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE
 Sample#5 Text: LQ3ME-1-AC : G9L14000-326C Exp: DIOXIN
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6352,0,1,00%,F,T)
 100%



File: 17DE091D5 #1-349 Acq: 17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE
 Sample#5 Text: LQ3ME-1-AC : G9L140000-326C Exp: DIOXIN
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11392.0,1.00%,F,T)
 100%

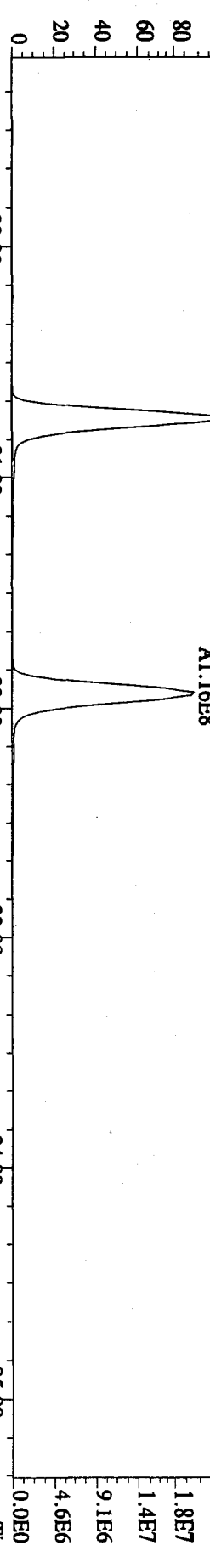


File: 17DE091D5 #1-434 Acq: 17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE

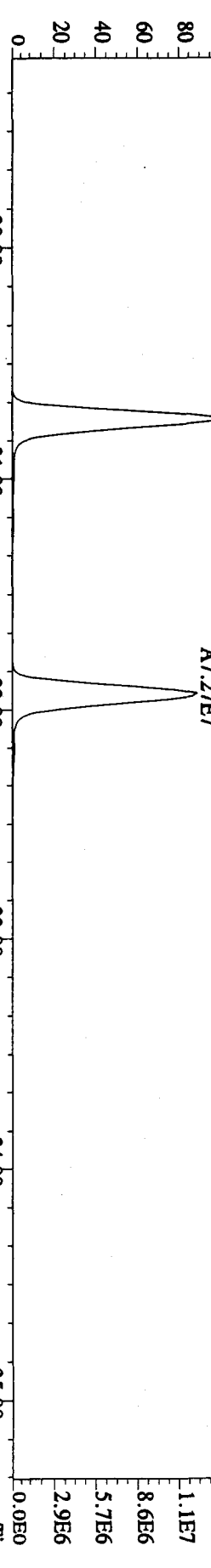
Sample#5 Text: LQ3ME-1-AC : G9L14000-326C

Exp: DIOXIN

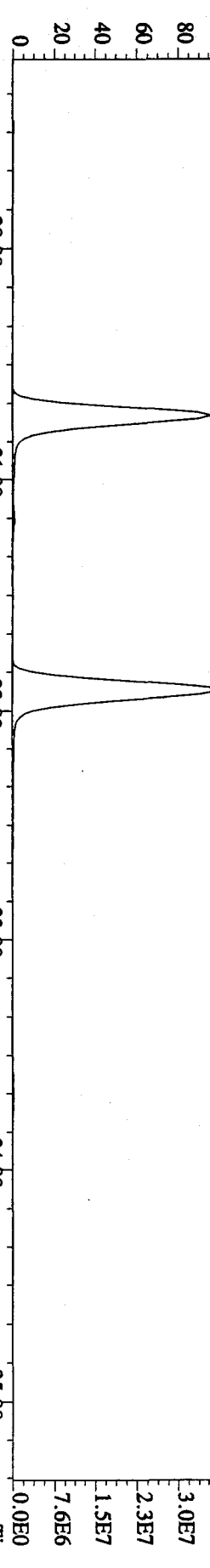
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12960,0,1,00%,F,T)



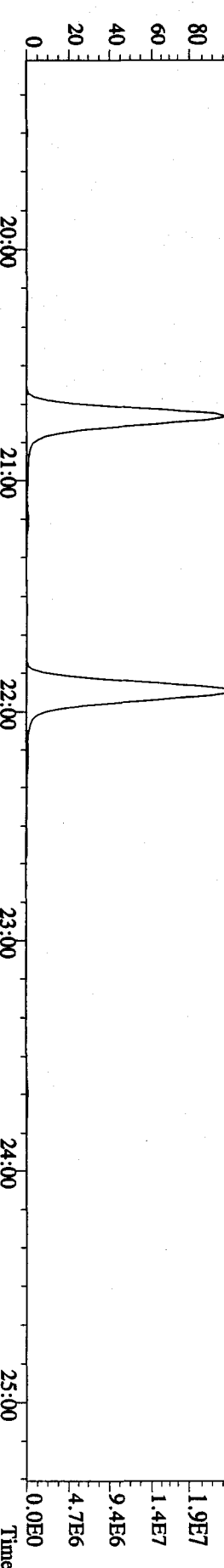
341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,11780,0,1,00%,F,T)



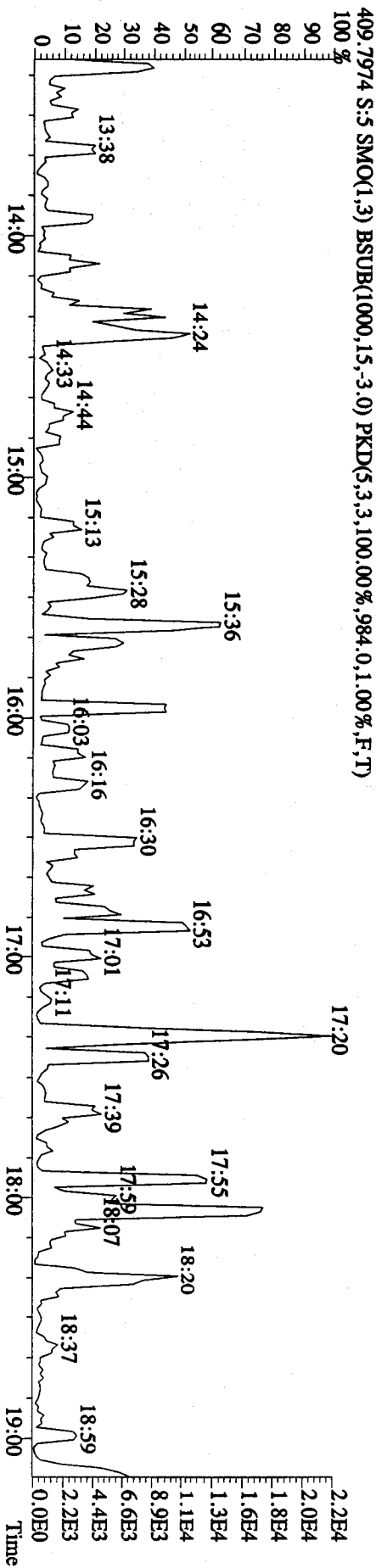
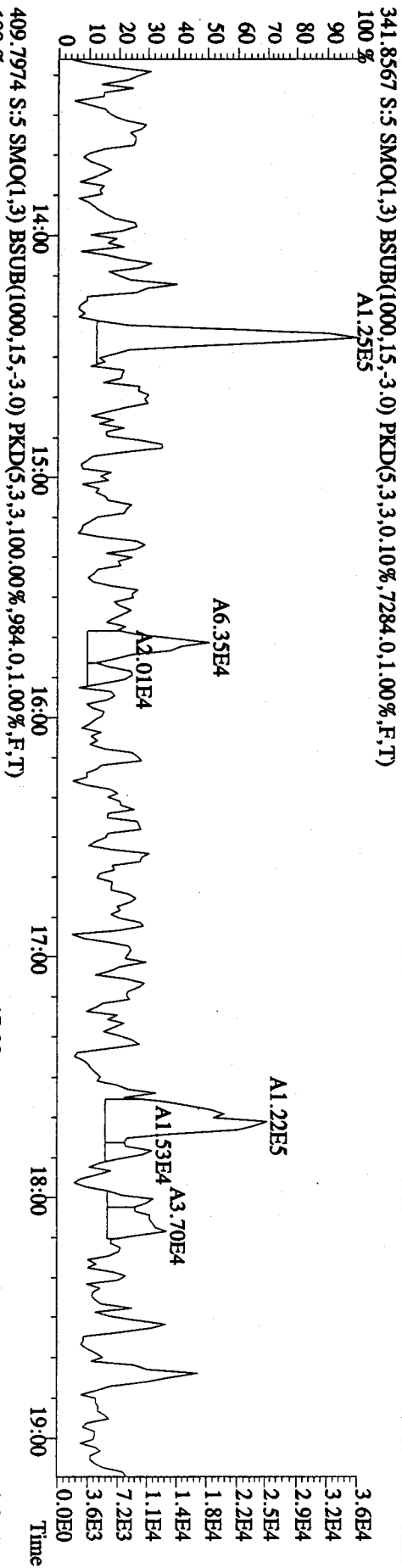
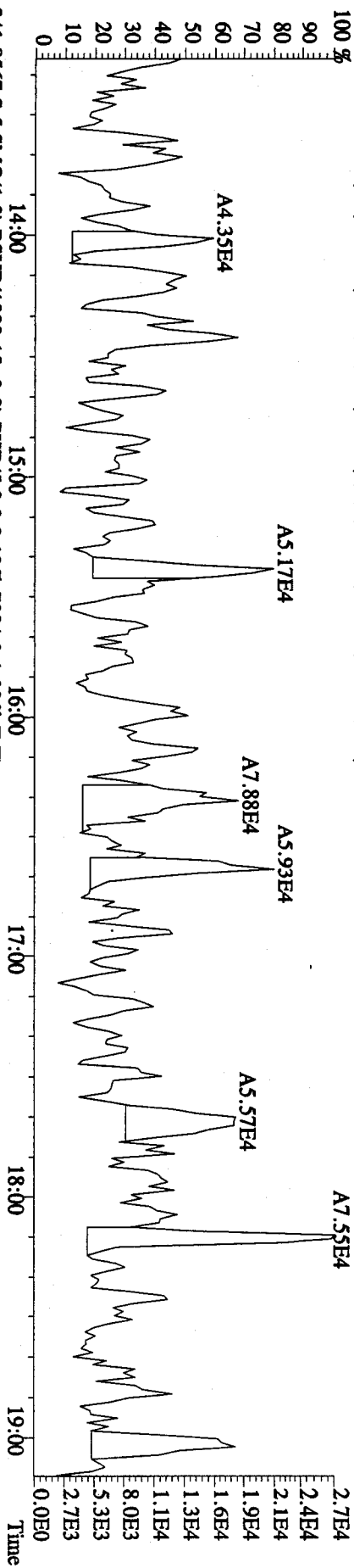
351.9000 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,14016,0,1,00%,F,T)



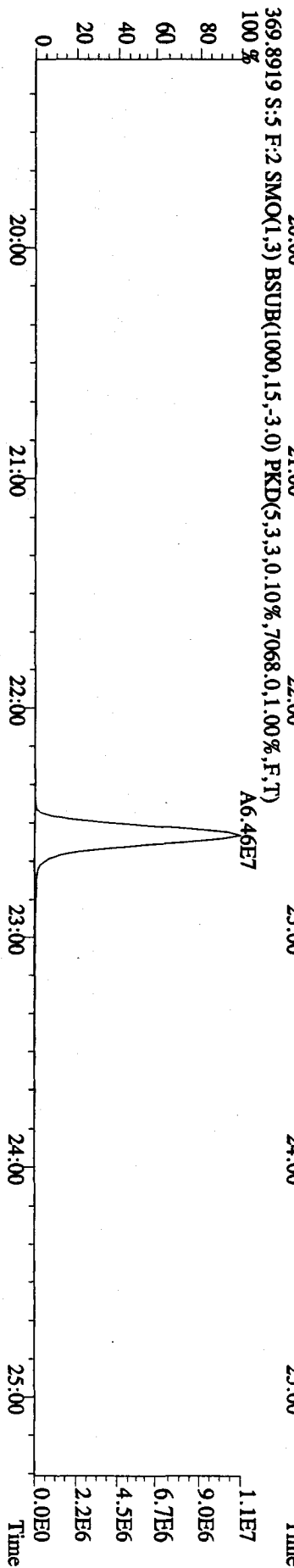
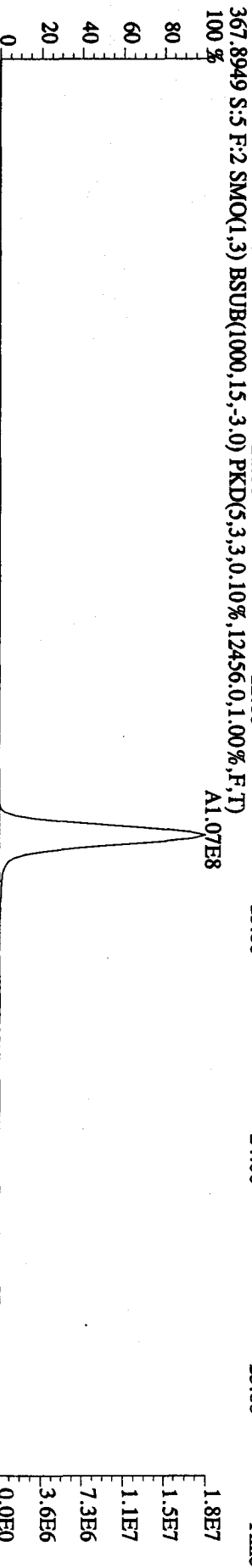
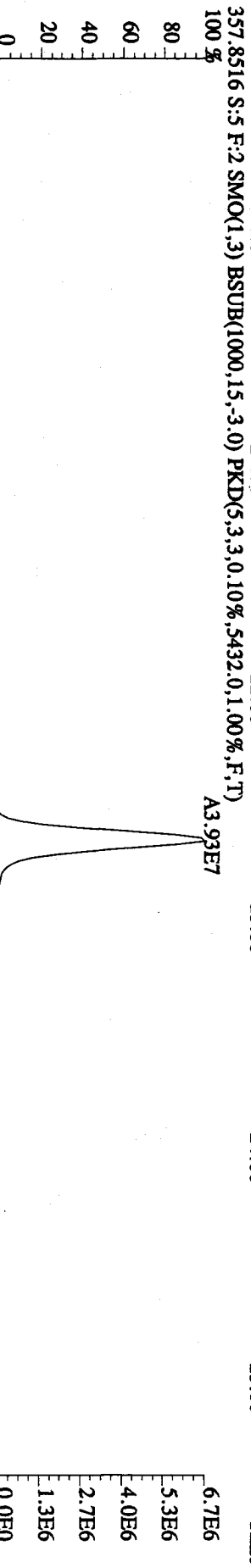
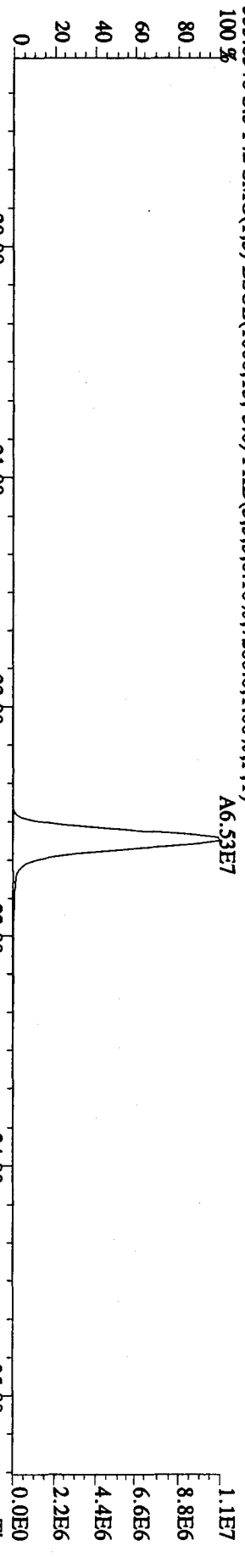
353.8970 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,14440,0,1,00%,F,T)



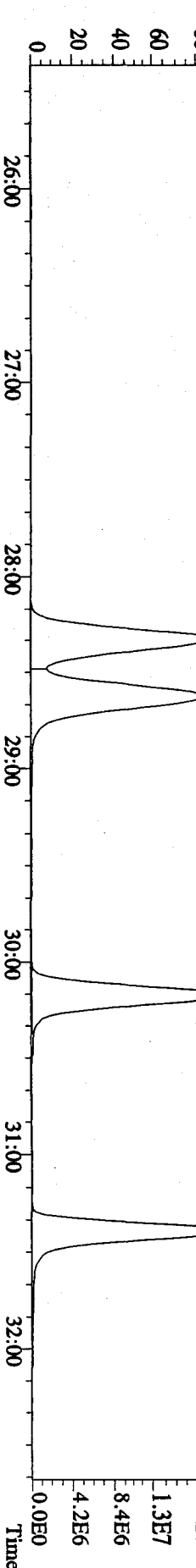
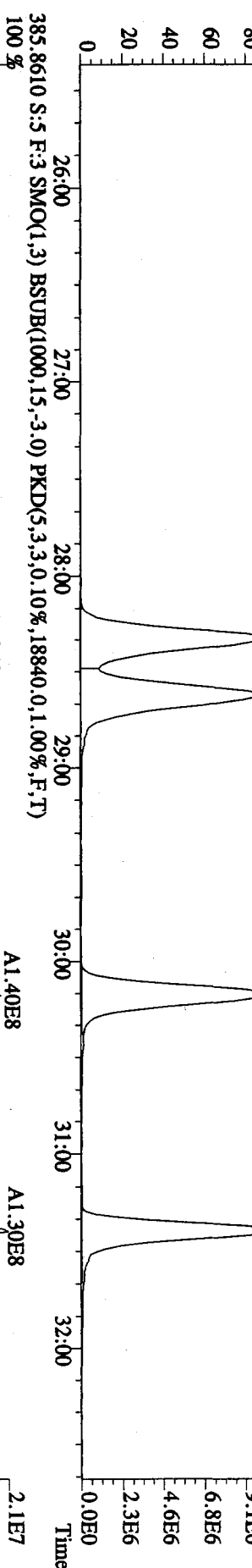
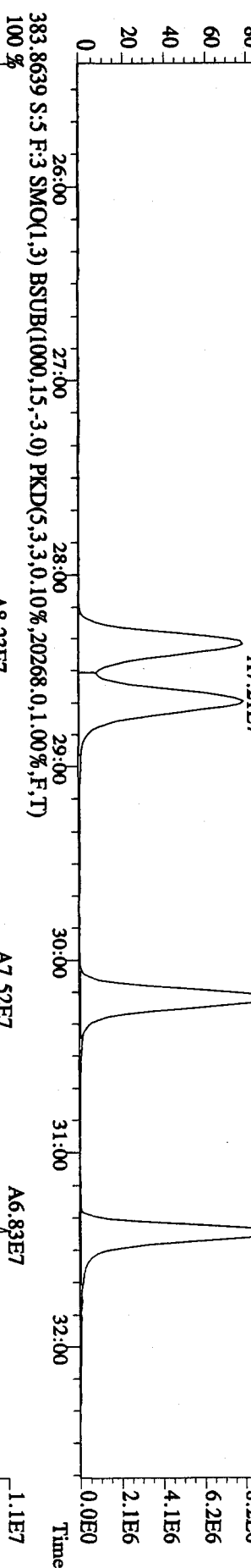
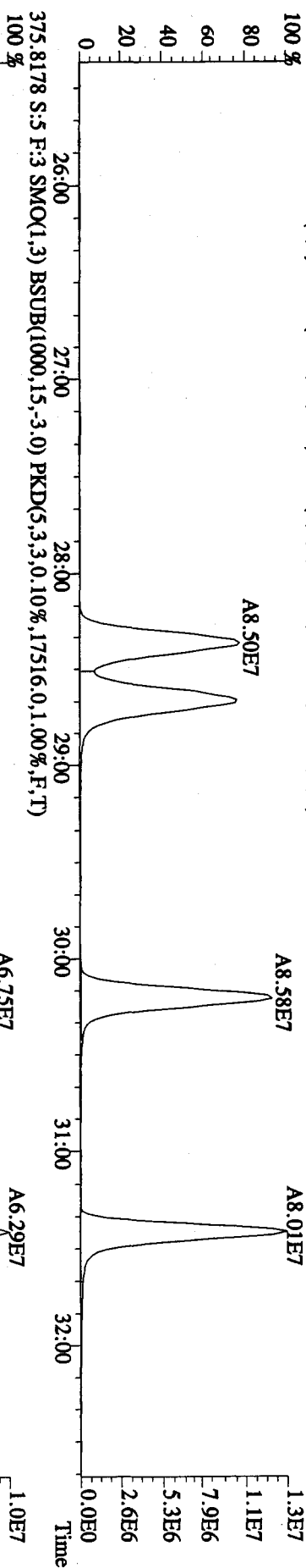
File:17DE091D5 #1-349 Acq:17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LQ3ME-1-AC :G9L140000-326C Exp:DIOXIN
 339.8597 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9856.0,1.00%,F,T) 100 %



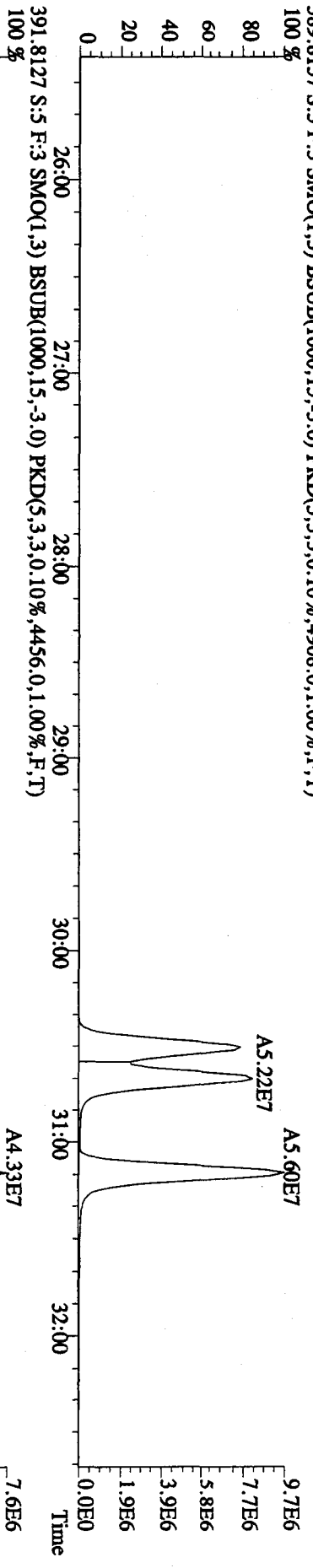
File:17DE091D5 #1-434 Acq:17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE
Sample#5 Text:LQ3ME-1-AC :G9L140000-326C Exp:DIOXIN
355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7280,0.1,00%,F,T)
100 %



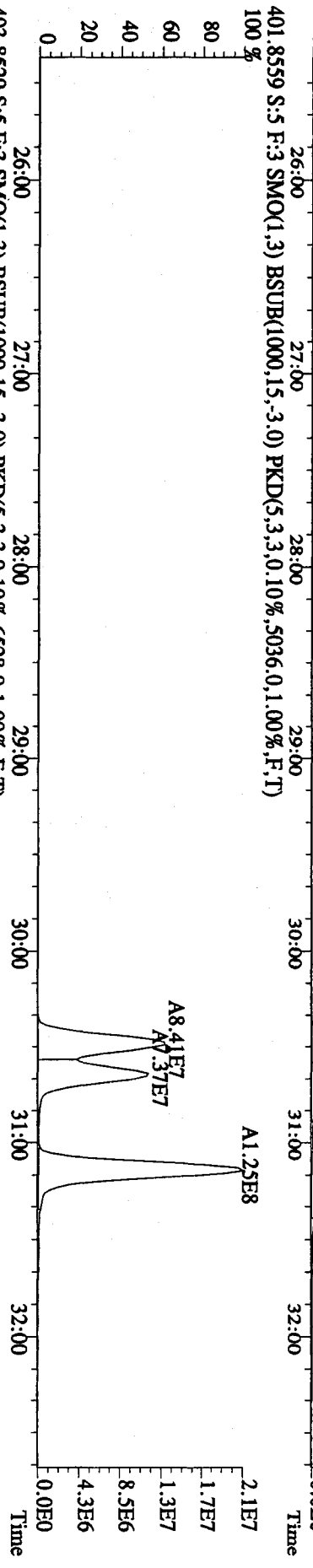
File:17DE091D5 #1-492 Acq:17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LQ3ME-1-AC :G9L140000-326C Exp:DIOXIN
 373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,17516,0,1,00%,F,T)
 100 %



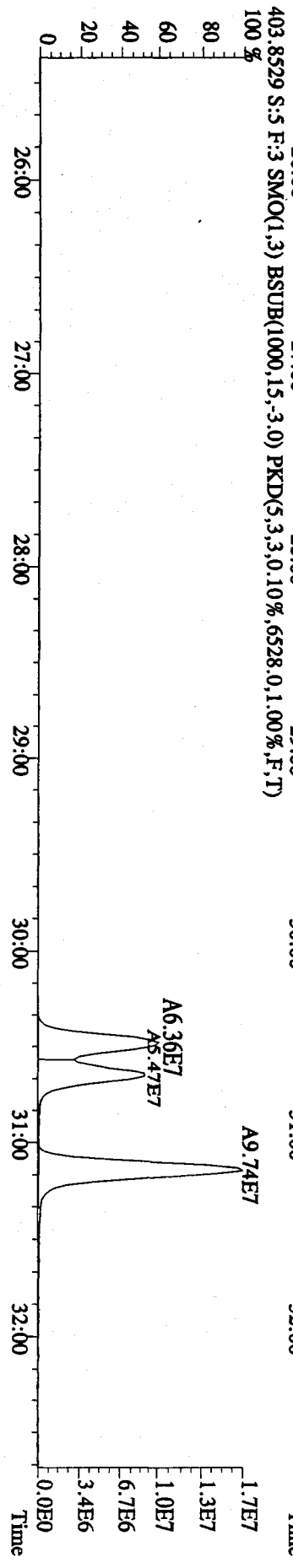
File:17DE091D5 #1-492 Acq:17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE
 Sample#5 Text:LQ3ME-1-AC :G9L140000-326C Exp:DIOXIN
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4908,0,1,00%,F,T)
 100%



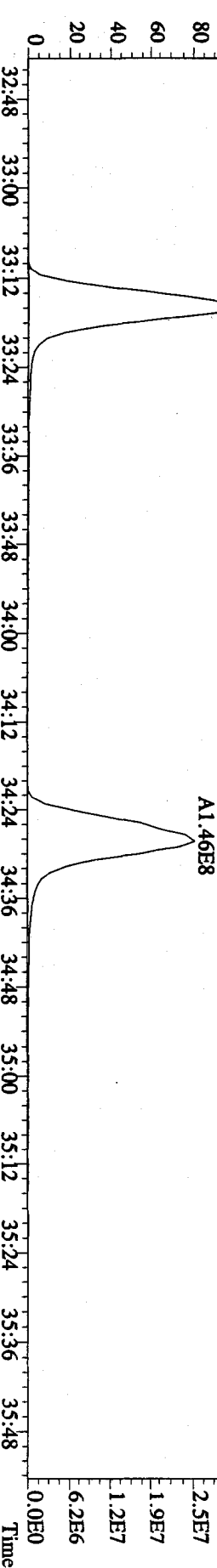
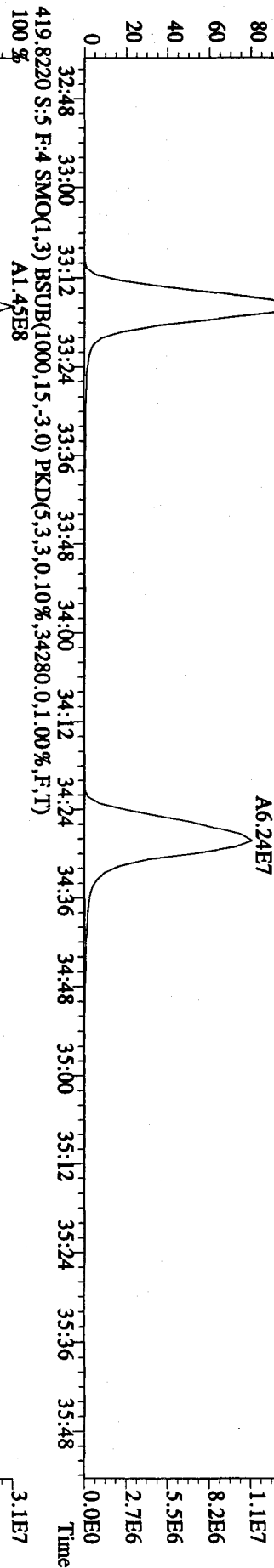
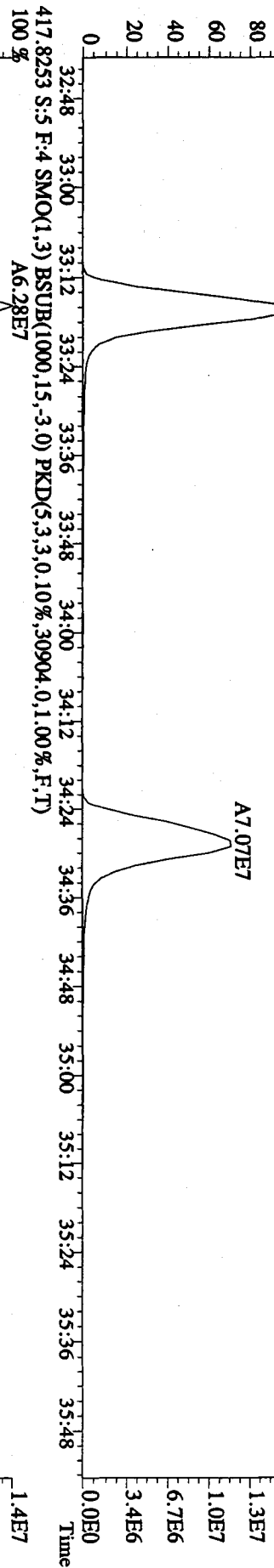
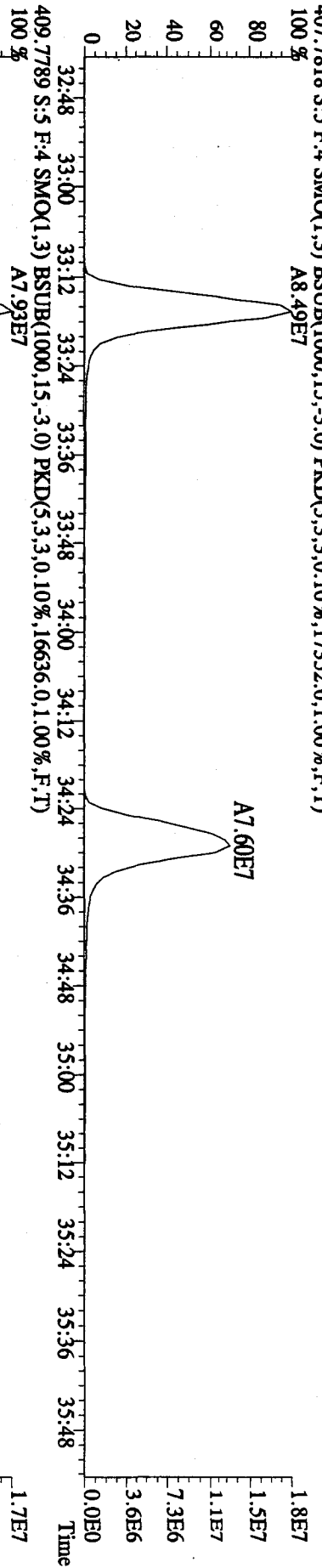
391.8127 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4456,0,1,00%,F,T)
 100%



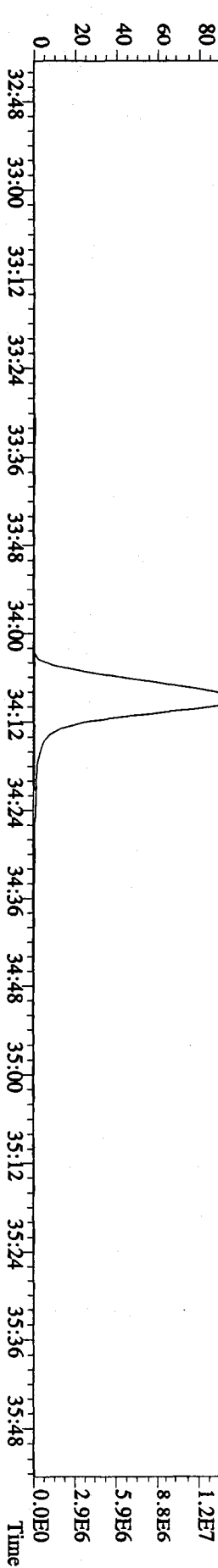
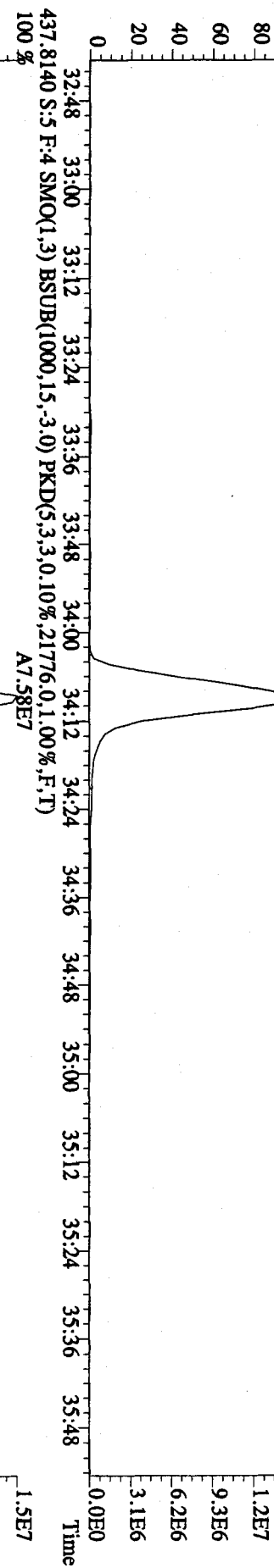
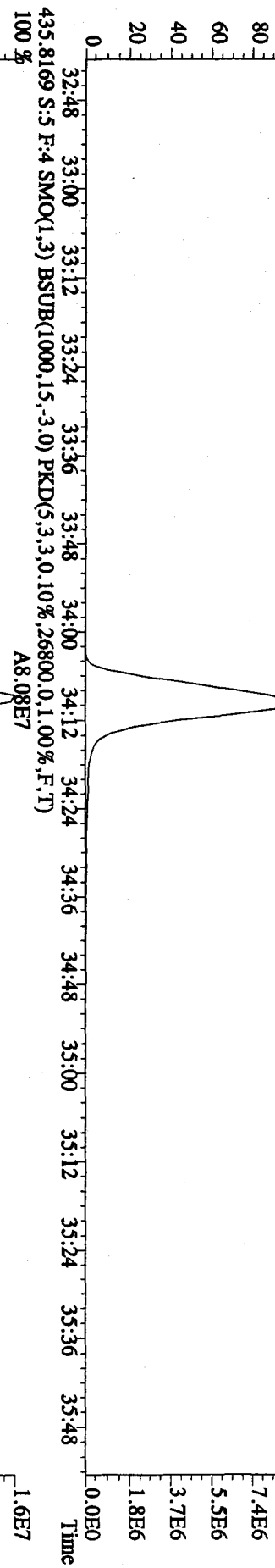
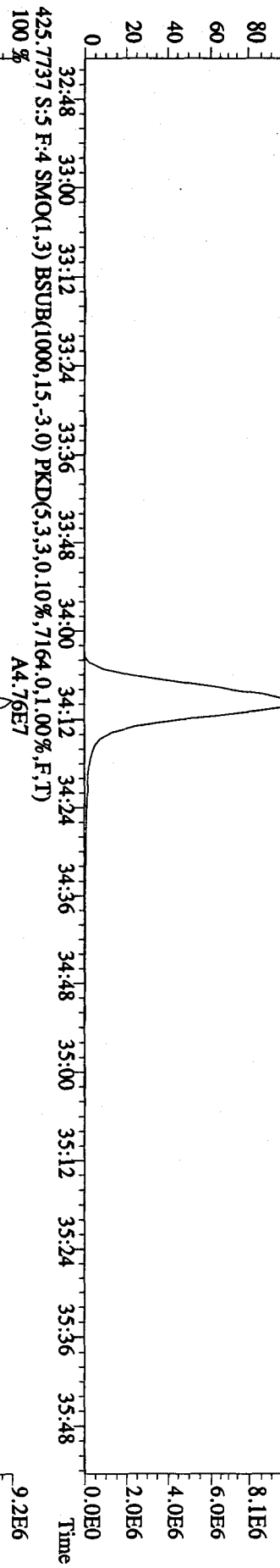
403.8529 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6528,0,1,00%,F,T)
 100%



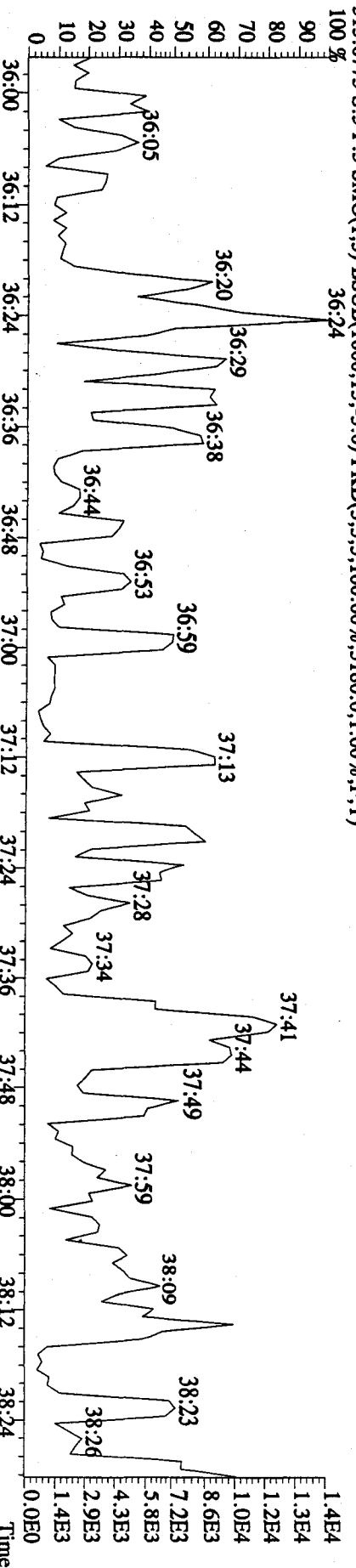
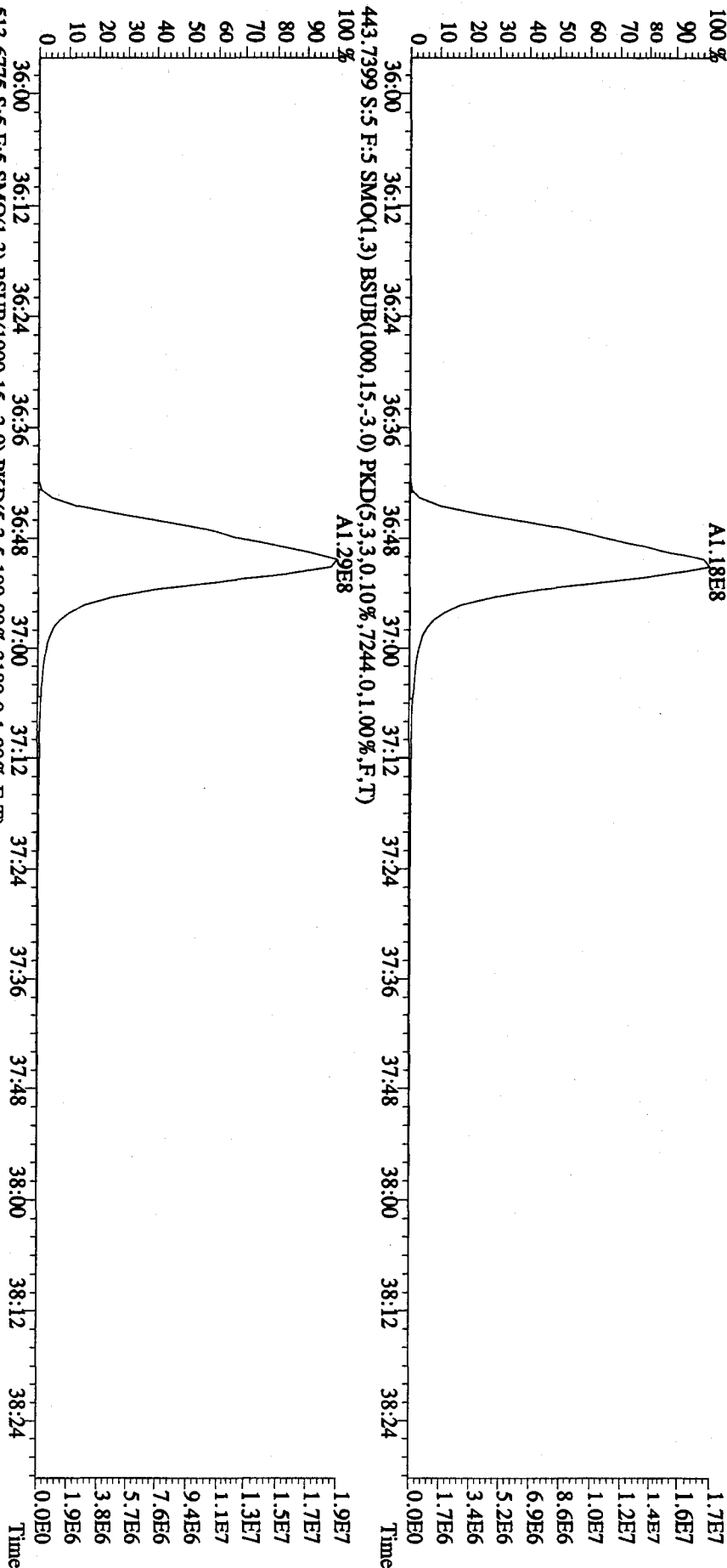
Sample#5 Text:LQ3ME-1-AC :G9L140000-326C Exp:DIOXIN
407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,17352.0,1.00%,F,T)



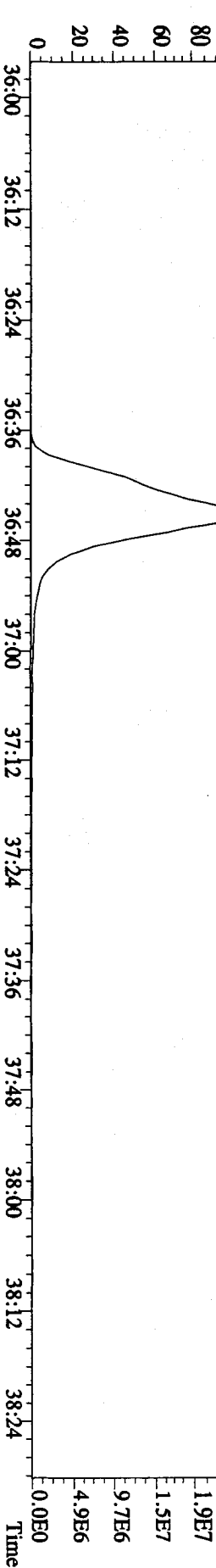
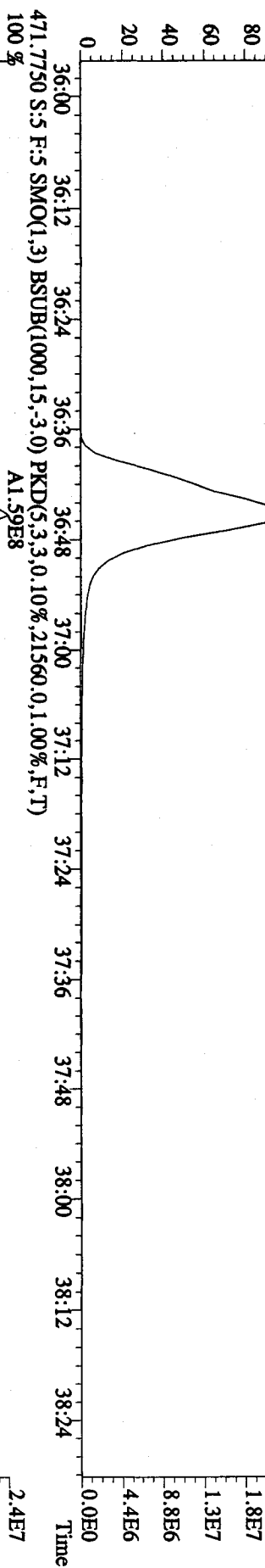
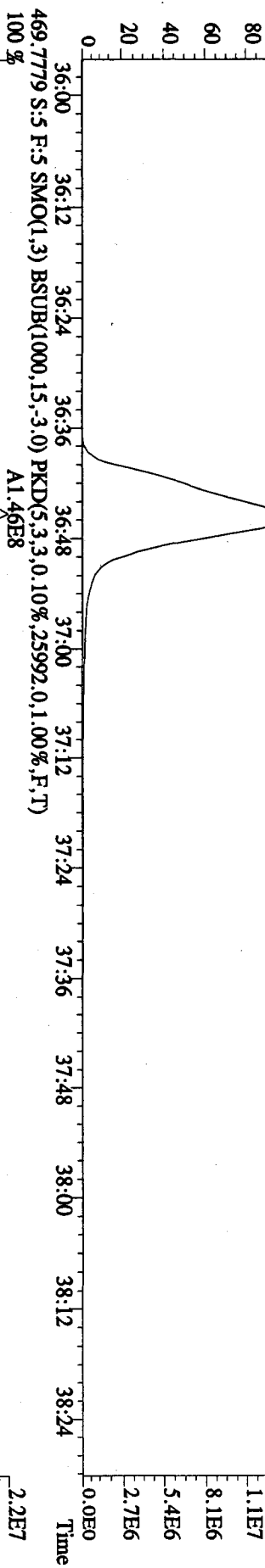
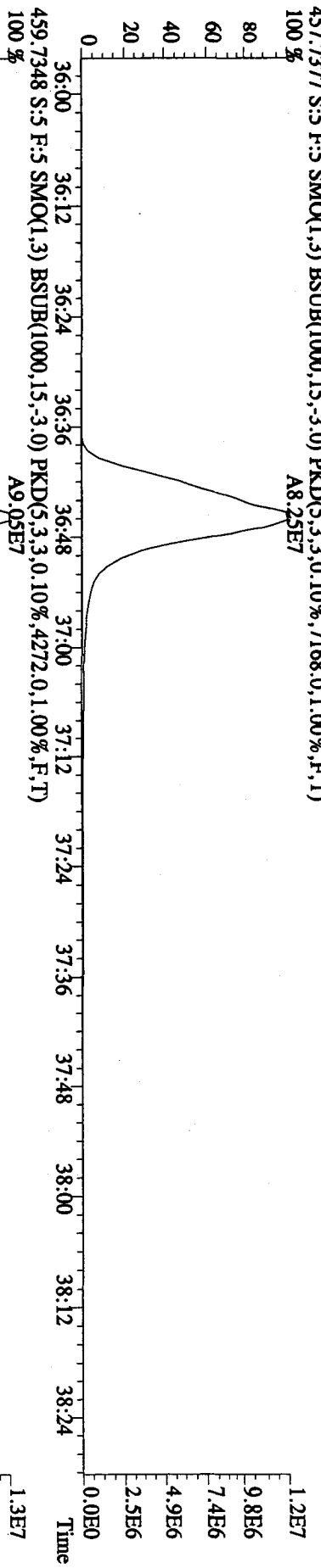
File: 17DE091D5 #1-226 Acq: 17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE
 Sample#5 Text: LQ3ME-1-AC : G9L140000-326C Exp: DIOXIN
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9244,0,1,00%,F,T)
 100% A5.23E7



File: 17DE091D5 #1-186 Acq: 17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE
 Sample5 Text: LQ3ME-1-AC : G9L14000-326C Exp: DIOXIN
 441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.8608,0,1,00%,F,T)
 100% A1.18E8



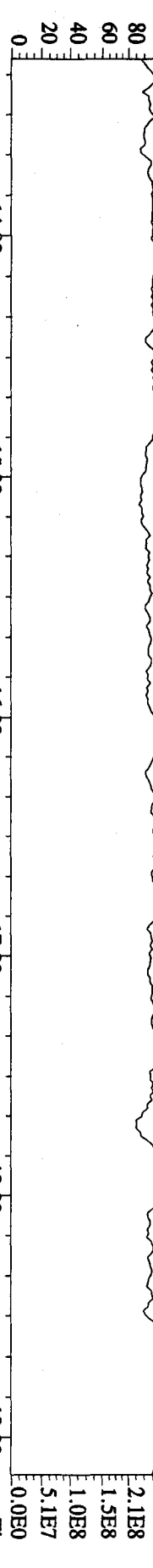
File: 17DE091D5 #1-186 Acq: 17-DEC-2009 11:34:59 GC EI + Voltage SIR 70SE
 Sample#5 Text: LQ3ME-1-AC : G9L14000-326C Exp: DIOXIN
 459.7348 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7168,0,1,00%,F,T)
 100% A8.25E7



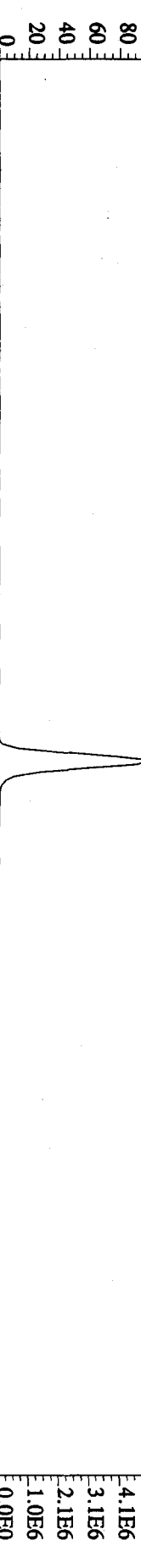
File: 17DE091D5 #1-349 Acq: 17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE

Sample# 5 Text: LQ3ME-1-AC : G9L140000-326C Exp: DIOXIN

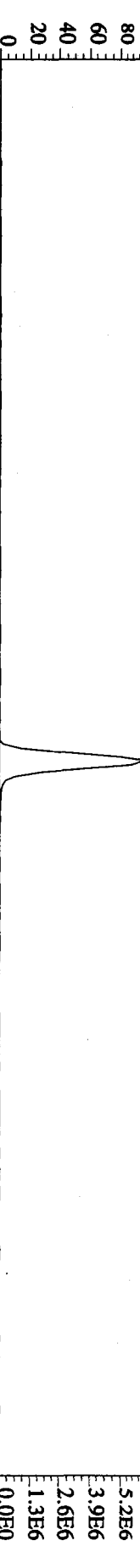
292.9825 S:5 SMO(1.3) PKD(5.3,5,100.00%,0.0,1.00%,F,T)



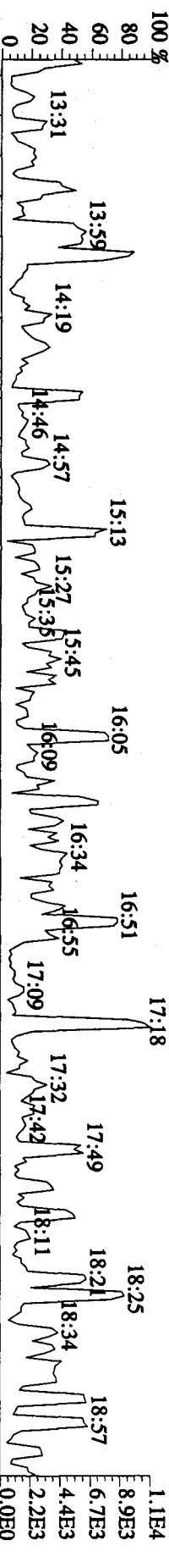
303.9016 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,13012.0,1.00%,F,T)
A2.24E7



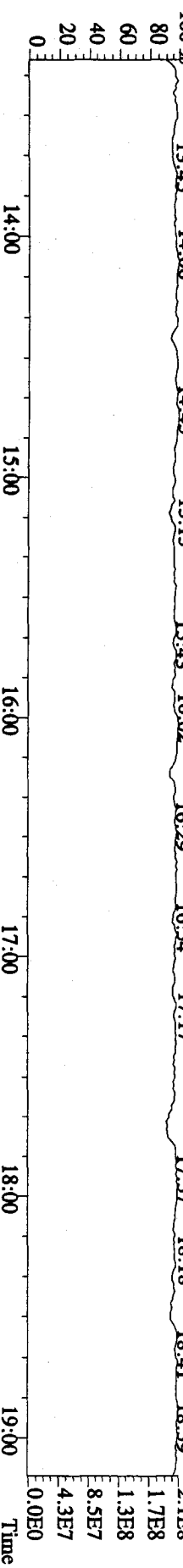
305.8987 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,14024.0,1.00%,F,T)
A2.80E7



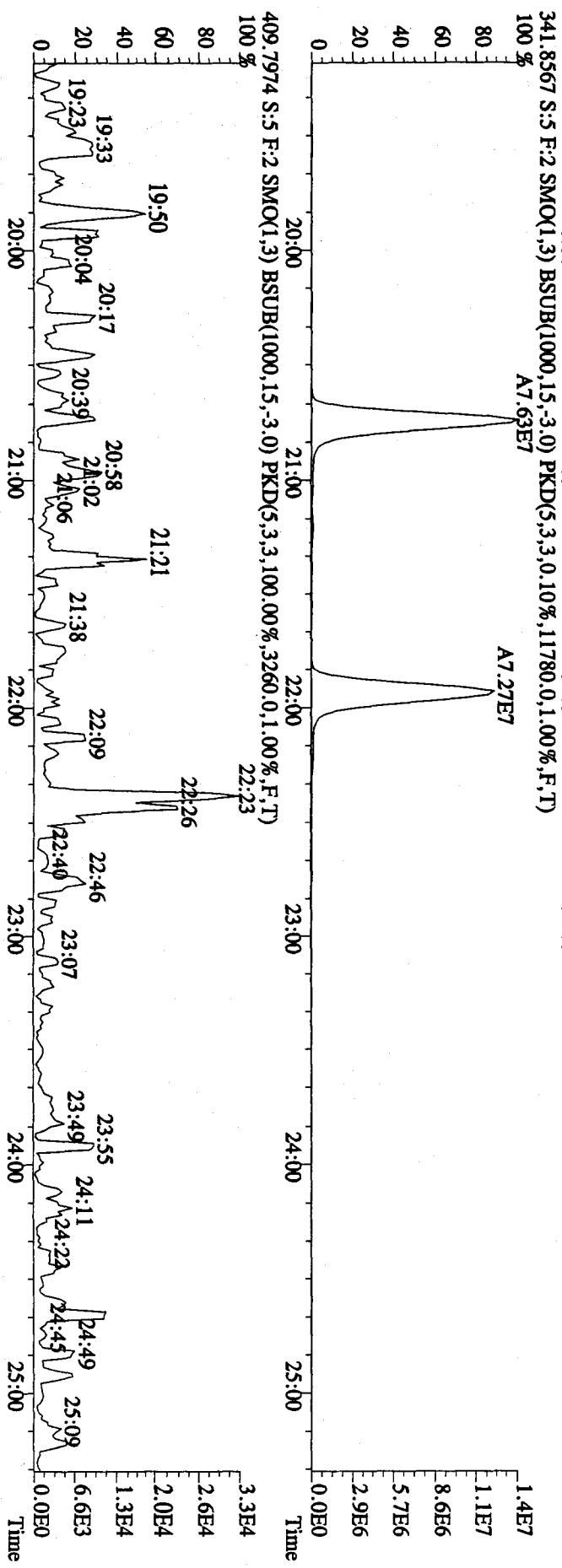
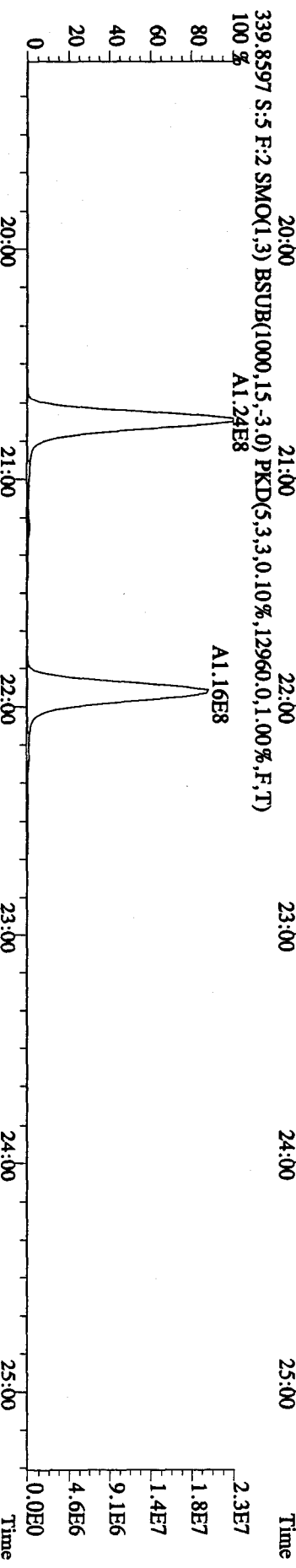
375.8364 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,1928.0,1.00%,F,T)

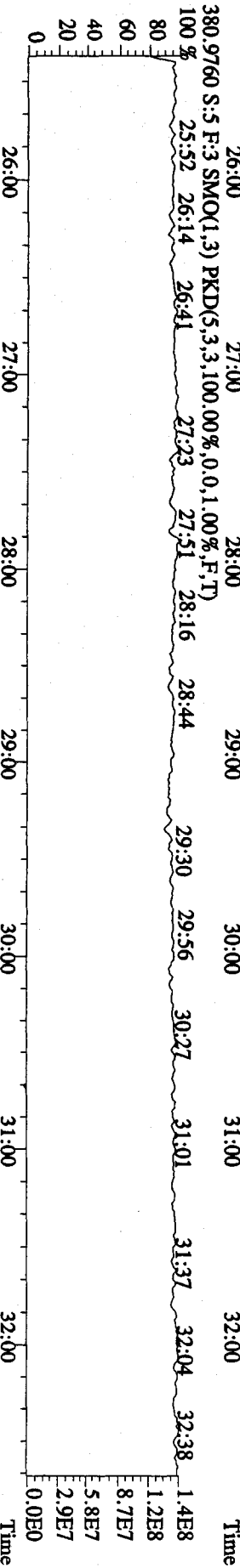
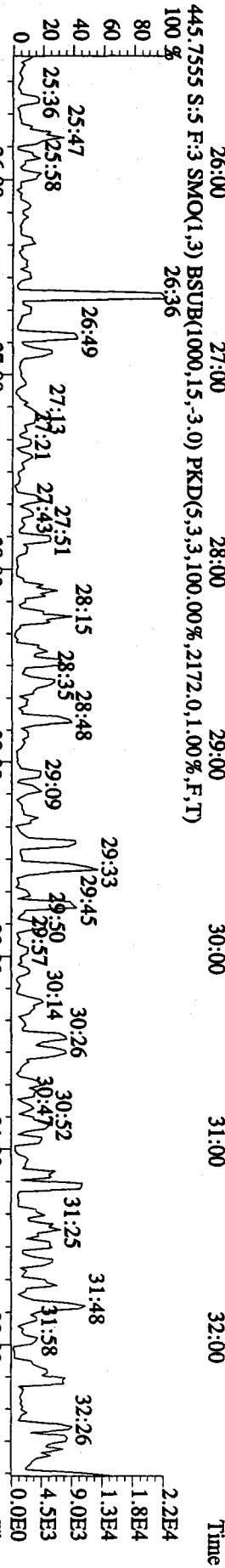
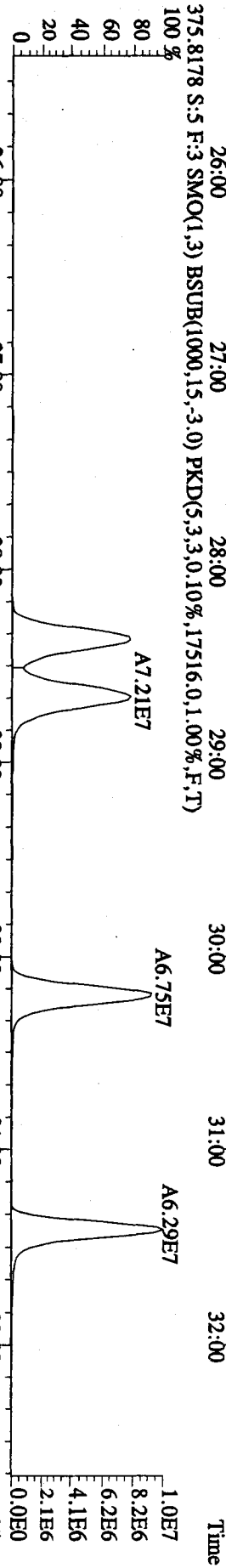
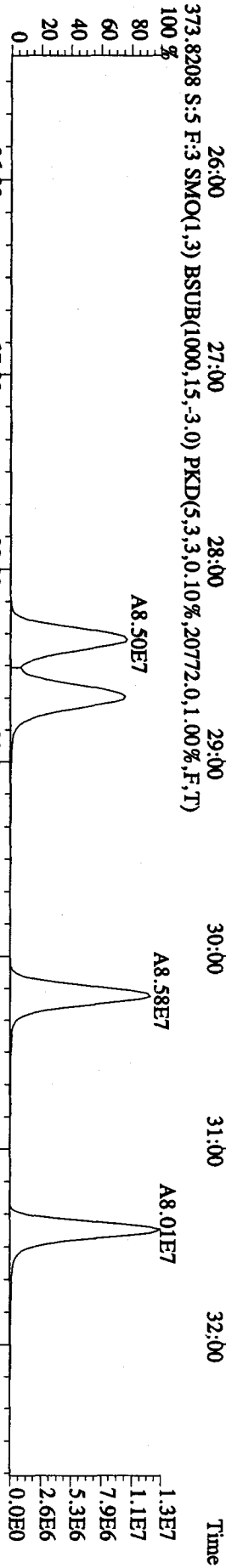
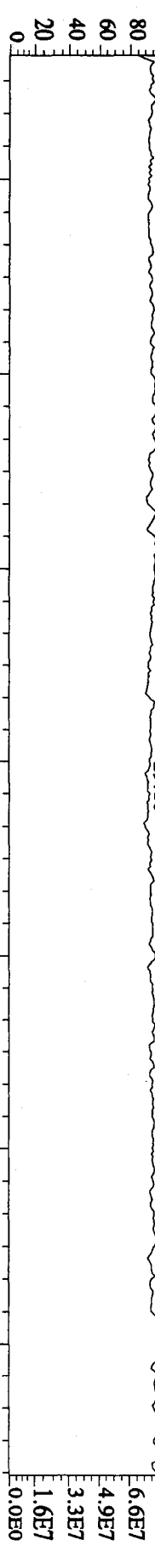


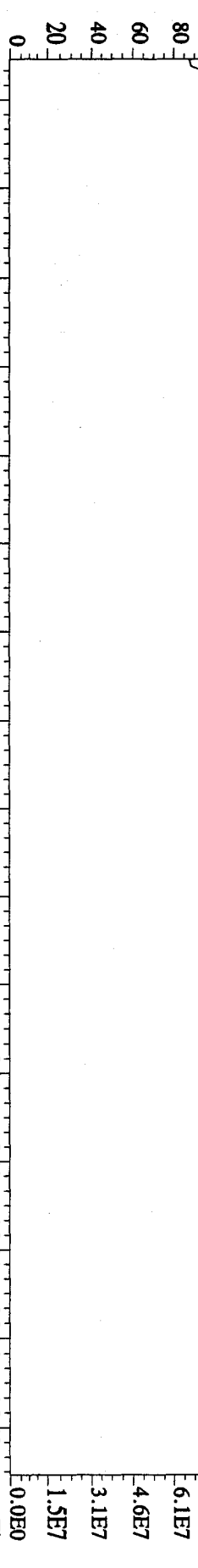
330.9792 S:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)



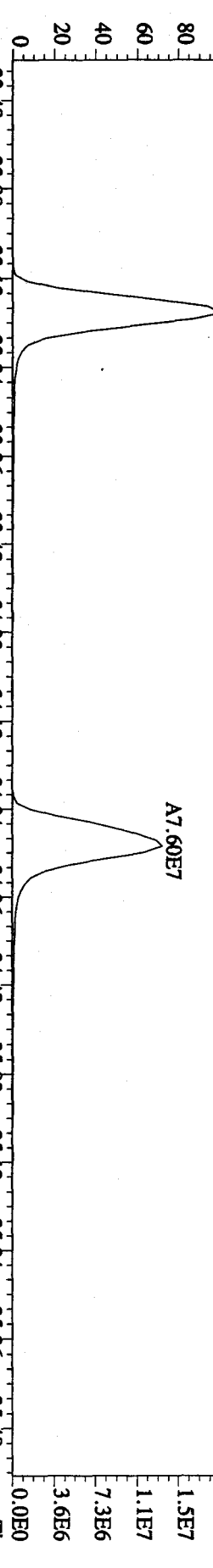
File: 17DE091D5 #1-434 Acq: 17-DEC-2009 11:34:59 GC: EI+ Voltage: SIR 70SE
 Sample#5 Text: LQ3ME-1-AC : G9L140000-326C Exp: DIOXIN
 342.9792 S:5 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 19:45 20:25 20:44 21:04 21:23 21:43 22:06 22:38 23:02 23:37 24:17 24:44 25:03



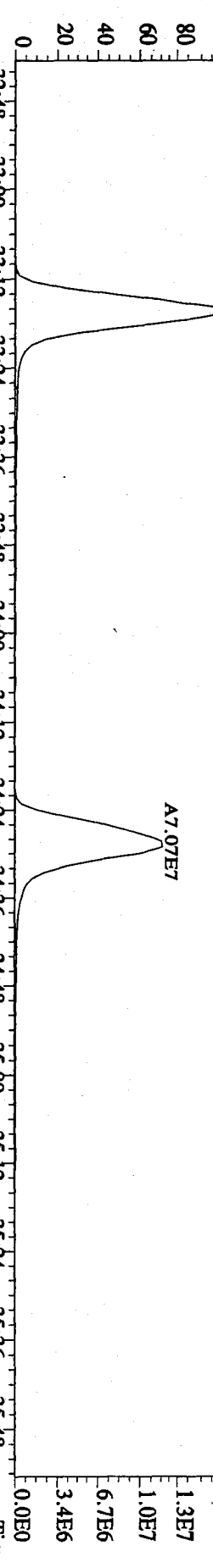




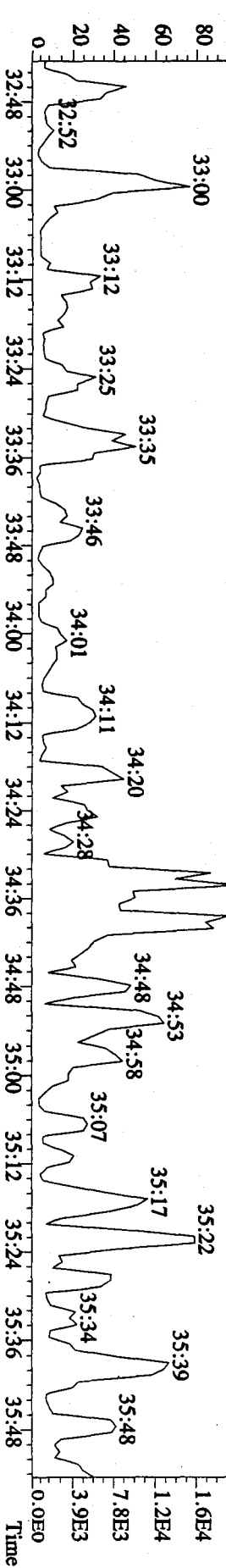
407.7818 S.S.F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17352.0,1.00%,F,T)
100 % A8.49E7 A7.60E7



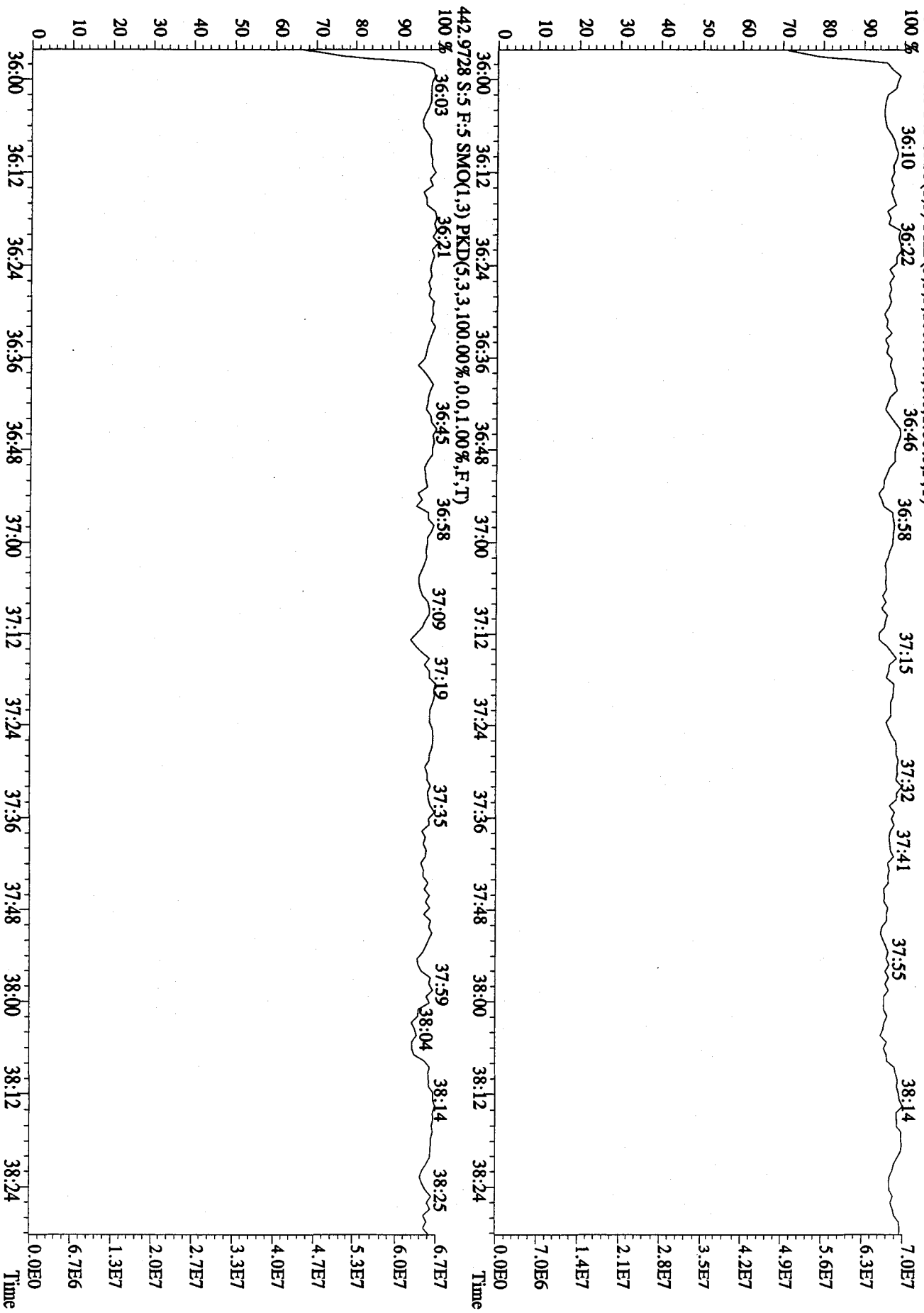
409.7789 S.S.F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16636.0,1.00%,F,T)
100 % A7.99E7 A7.07E7



479.7165 S.S.F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,3544.0,1.00%,F,T)
100 %



File: 17DE091D5 #1-186 Acq: 17-DEC-2009 11:34:59 GC EI+ Voltage SIR 70SE
 Sample#5 Text: I.Q3ME-1-AC :G9L140000-326C Exp: DIOXIN
 454.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 442.9728 S:5 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Run text: LQ224-1-AA Sample text: LQ224-1-AA :G9L120491-9
 Run #12 Filename: 17DE091D5 S: 8 I: 1 Results: 17de091d58290
 Acquired: 17-DEC-09 13:40:29 Processed: 17-DEC-09 14:34:46
 Run: 17DE091D5 Analyte: 8290HRS Cal: 82901215091D5
 Factor 1:1600.000 Factor 2:20.000 Sample size: 1.05 L

*05
12-28-09*

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	208974700	0.82 y	16:39	-	74.695	-	-	n
13C-2,3,7,8-TCDF	536989000	0.80 y	16:12	1.65	1479.266	1.090	77.8	n
2,3,7,8-TCDF	2694210	0.78 y	16:13	1.13	8.477 <i>DB20</i>	1.073	-	n
Total TCDF	9959990	1.18 n	13:58	1.13	31.339	1.073	-	n
13C-2,3,7,8-TCDD	301657000	0.83 y	16:50	0.94	1454.359	2.598	76.5	n
2,3,7,8-TCDD	60434	0.27 n	16:54	1.19	0.321	0.859	-	n
Total TCDD	571565	1.61 n	14:47	1.19	3.040	0.859	-	n
37Cl-2,3,7,8-TCDD	367916000	1.00 y	16:51	2.77	603.416	0.537	79.3	n
13C-1,2,3,7,8-PeCDF	337971000	1.62 y	20:47	1.19	1296.091	1.281	68.2	n
1,2,3,7,8-PeCDF	1309528	1.51 y	20:47	1.33	5.531 <i>J</i>	1.209	-	n
2,3,4,7,8-PeCDF	603912	1.31 n	22:01	1.27	2.683 <i>JR</i>	1.272	-	n
Total F2 PeCDF	6789429	1.47 y	19:21	1.30	29.328	1.239	-	n
Total F1 PeCDF	553965	0.88 n	17:43	1.30	2.399	1.265	-	n
13C-1,2,3,7,8-PeCDD	179971900	1.68 y	22:37	0.63	1290.320	1.723	67.9	n
1,2,3,7,8-PeCDD	57915	0.78 n	22:39	1.26	0.487	1.909	-	n
Total PeCDD	143424	3.99 n	20:47	1.26	1.206	1.909	-	n
13C-1,2,3,7,8,9-HxCDD	96712500	1.28 y	31:11	-	47.817	-	-	n
13C-1,2,3,4,7,8-HxCDF	214224000	0.53 y	28:26	1.27	1656.939	6.388	87.1	n
1,2,3,4,7,8-HxCDF	1289443	1.27 y	28:28	1.28	8.927 <i>J</i>	3.327	-	n
1,2,3,6,7,8-HxCDF	799689	1.38 y	28:47	1.39	5.120 <i>J</i>	3.077	-	n
2,3,4,6,7,8-HxCDF	195837	0.72 n	30:16	1.30	1.334	3.275	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.16	*	3.682	-	n
Total HxCDF	5188537	1.32 y	25:49	1.28	35.479	3.326	-	n
13C-1,2,3,6,7,8-HxCDD	122026000	1.28 y	30:42	0.72	1660.837	2.659	87.3	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.26	*	2.312	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.39	*	2.099	-	n
1,2,3,7,8,9-HxCDD	88945	0.89 n	31:10	1.47	0.945	1.990	-	n
Total HxCDD	88945	0.89 n	31:10	1.37	0.945	2.125	-	n
13C-1,2,3,4,6,7,8-HpCDF	192435800	0.44 y	33:17	1.05	1802.362	7.715	94.8	n
1,2,3,4,6,7,8-HpCDF	2517140	1.16 y	33:18	1.55	16.061 <i>J</i>	1.456	-	n
1,2,3,4,7,8,9-HpCDF	892631	0.96 y	34:31	1.31	6.749 <i>J</i>	1.726	-	n
Total HpCDF	4958189	1.16 y	33:18	1.43	23.526	1.580	-	n
13C-1,2,3,4,6,7,8-HpCDD	132483000	1.05 y	34:10	0.76	1717.588	8.286	90.3	n
1,2,3,4,6,7,8-HpCDD	206492	1.04 y	34:12	1.28	2.321 <i>J</i>	1.336	-	n
Total HpCDD	342350	0.98 y	33:35	1.28	3.848	1.336	-	n
13C-OCDD	231365000	0.91 y	36:47	0.72	3174.968	11.846	83.5	n

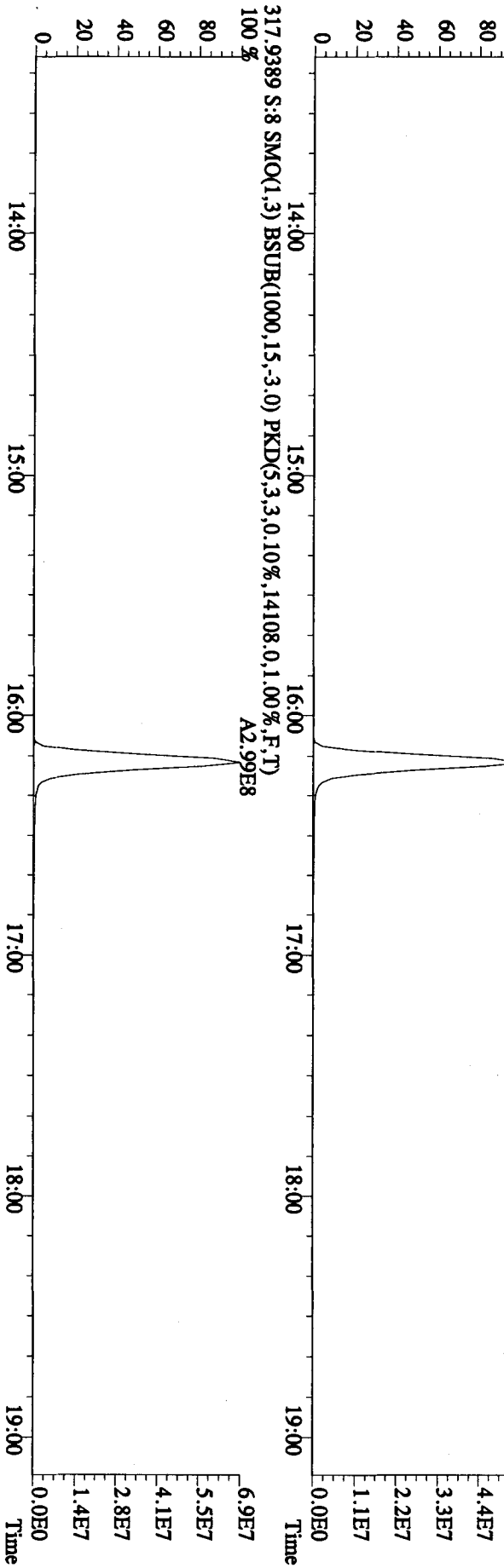
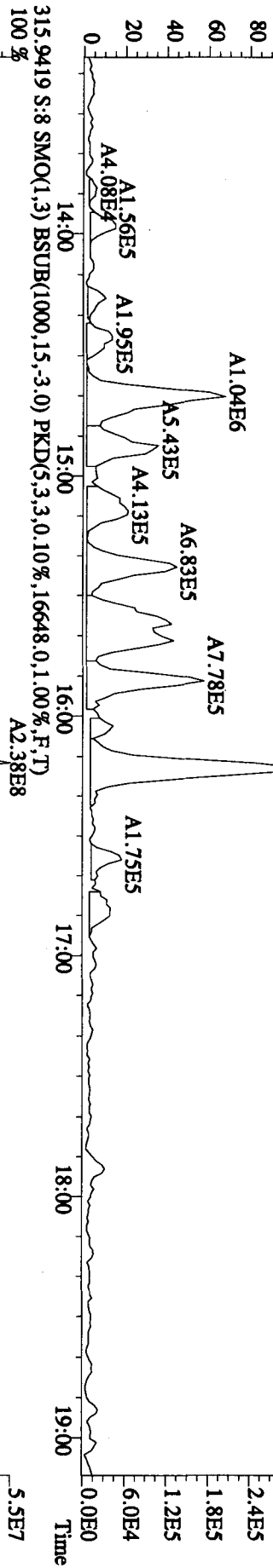
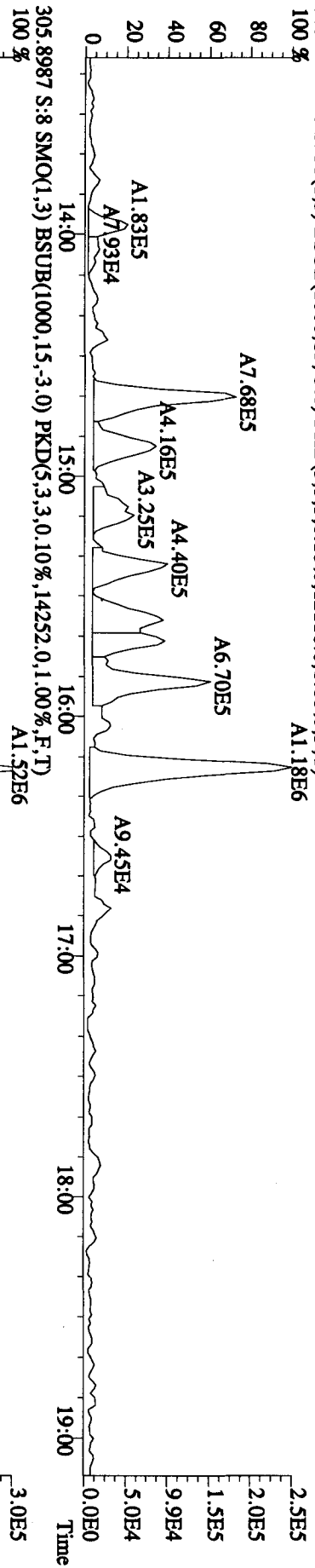
OCDF	3387920	0.94	y	36:53	1.58	35.304	J	2.238	-	n
OCDD	205767	0.66	n	36:47	1.13	3.004	J, &	1.966	-	n

Run text: LQ224-1-AA Sample text: LQ224-1-AA :G9L120491-9
 Run #12 Filename: 17DE091D5 S: 8 I: 1 Results: 17DE091D58290
 Acquired: 17-DEC-09 13:40:29 Processed: 17-DEC-09 14:34:46
 Run: 17DE091D5 Analyte: 8290HRS Cal: 82901215091D5
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.051700L

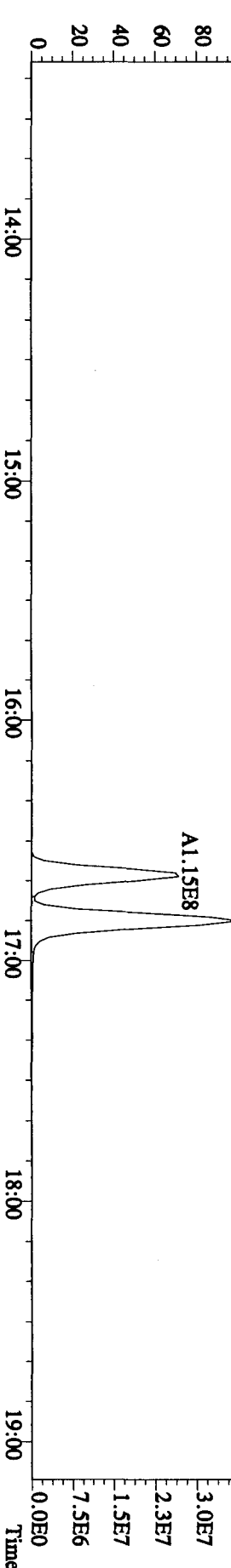
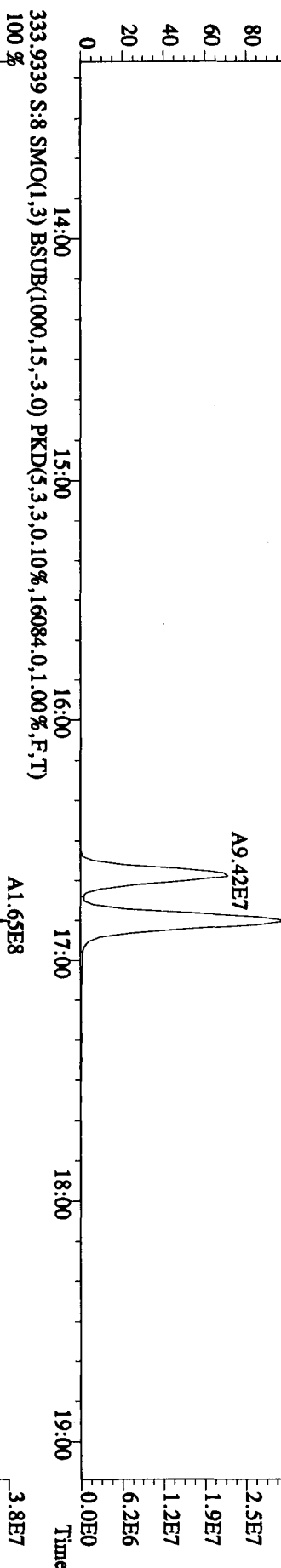
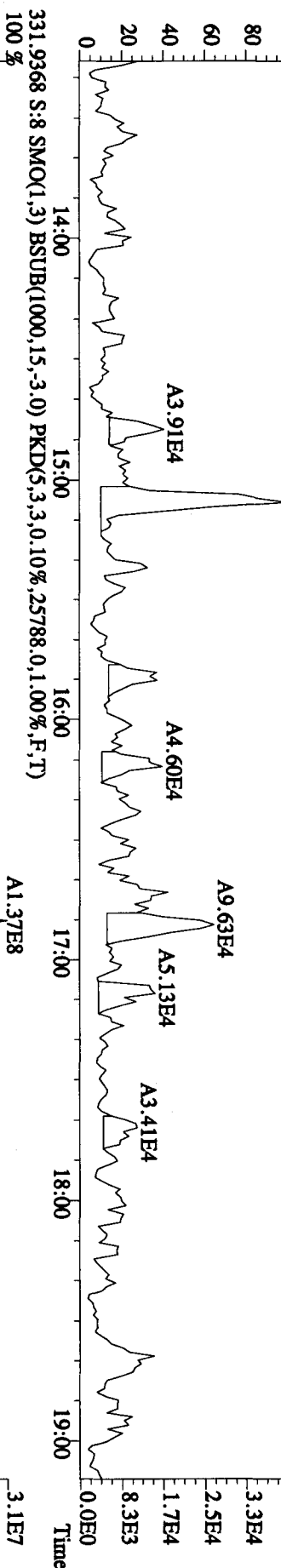
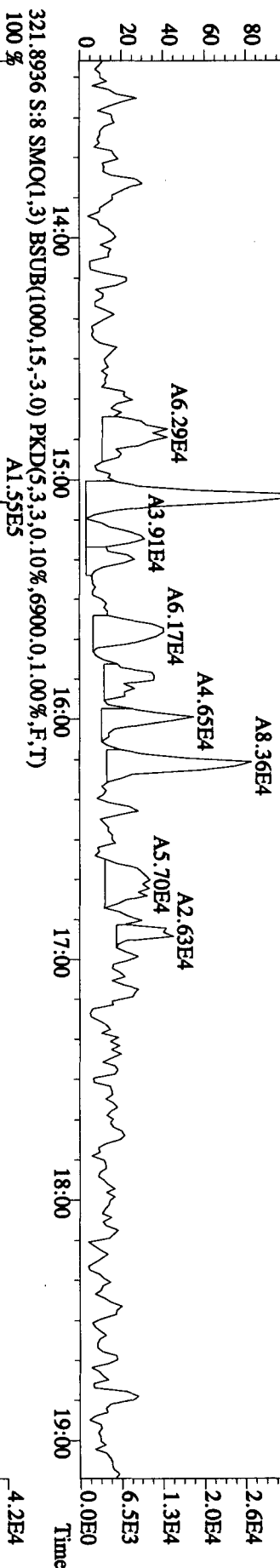
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	208974700	0.82 y	16:39	-	74.70	-	-	n
13C-2,3,7,8-TCDF	536989000	0.80 y	16:12	1.65	1479.27	1.09	77.8	n
2,3,7,8-TCDF	2694210	0.78 y	16:13	1.13	8.48	1.07	-	n
Total TCDF	9959990	1.18 n	13:58	1.13	31.34	1.07	-	n
13C-2,3,7,8-TCDD	301657000	0.83 y	16:50	0.94	1454.36	2.60	76.5	n
2,3,7,8-TCDD	60434	0.27 n	16:54	1.19	0.32	0.86	-	n
Total TCDD	571565	1.61 n	14:47	1.19	3.04	0.86	-	n
37Cl-2,3,7,8-TCDD	367916000	1.00 y	16:51	2.77	603.42	0.54	79.3	n
13C-1,2,3,7,8-PeCDF	337971000	1.62 y	20:47	1.19	1296.09	1.28	68.2	n
1,2,3,7,8-PeCDF	1309528	1.51 y	20:47	1.33	5.53	1.21	-	n
2,3,4,7,8-PeCDF	603912	1.31 n	22:01	1.27	2.68	1.27	-	n
Total F2 PeCDF	6789429	1.47 y	19:21	1.30	29.33	1.24	-	n
Total F1 PeCDF	553965	0.88 n	17:43	1.30	2.40	1.26	-	n
13C-1,2,3,7,8-PeCDD	179971900	1.68 y	22:37	0.63	1290.32	1.72	67.9	n
1,2,3,7,8-PeCDD	57915	0.78 n	22:39	1.26	0.49	1.91	-	n
Total PeCDD	143424	3.99 n	20:47	1.26	1.21	1.91	-	n
13C-1,2,3,7,8,9-HxCDD	96712500	1.28 y	31:11	-	47.82	-	-	n
13C-1,2,3,4,7,8-HxCDF	214224000	0.53 y	28:26	1.27	1656.94	6.39	87.1	n
1,2,3,4,7,8-HxCDF	1289443	1.27 y	28:28	1.28	8.93	3.33	-	n
1,2,3,6,7,8-HxCDF	799689	1.38 y	28:47	1.39	5.12	3.08	-	n
2,3,4,6,7,8-HxCDF	195837	0.72 n	30:16	1.30	1.33	3.27	-	n
1,2,3,7,8,9-HxCDF	*	* n	NotFnd	1.16	*	3.68	-	n
Total HxCDF	5188537	1.32 y	25:49	1.28	35.48	3.33	-	n
13C-1,2,3,6,7,8-HxCDD	122026000	1.28 y	30:42	0.72	1660.84	2.66	87.3	n
1,2,3,4,7,8-HxCDD	*	* n	NotFnd	1.26	*	2.31	-	n
1,2,3,6,7,8-HxCDD	*	* n	NotFnd	1.39	*	2.10	-	n
1,2,3,7,8,9-HxCDD	88945	0.89 n	31:10	1.47	0.94	1.99	-	n
Total HxCDD	88945	0.89 n	31:10	1.37	0.94	2.13	-	n
13C-1,2,3,4,6,7,8-HpCDF	192435800	0.44 y	33:17	1.05	1802.36	7.71	94.8	n
1,2,3,4,6,7,8-HpCDF	2517140	1.16 y	33:18	1.55	16.06	1.46	-	n
1,2,3,4,7,8,9-HpCDF	892631	0.96 y	34:31	1.31	6.75	1.73	-	n
Total HpCDF	4958189	1.16 y	33:18	1.43	33.53	1.58	-	n
13C-1,2,3,4,6,7,8-HpCDD	132483000	1.05 y	34:10	0.76	1717.59	8.29	90.3	n
1,2,3,4,6,7,8-HpCDD	206492	1.04 y	34:12	1.28	2.32	1.34	-	n
Total HpCDD	342350	0.98 y	33:35	1.28	3.85	1.34	-	n
13C-OCDD	231365000	0.91 y	36:47	0.72	3174.97	11.85	83.5	n

OCDF	3387920	0.94	y	36:53	1.58	35.30	2.24	-	n
OCDD	205767	0.66	n	36:47	1.13	3.00	1.97	-	n

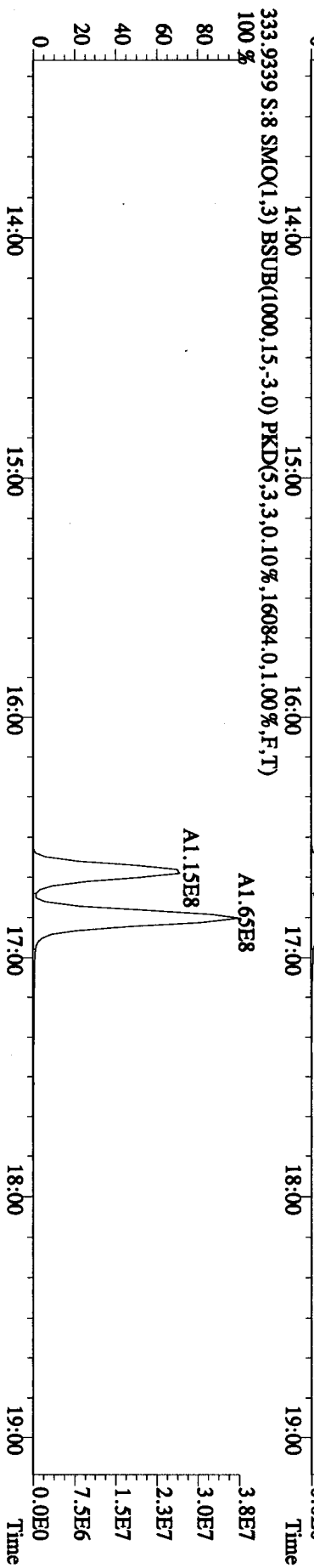
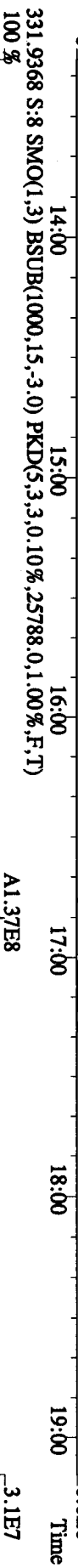
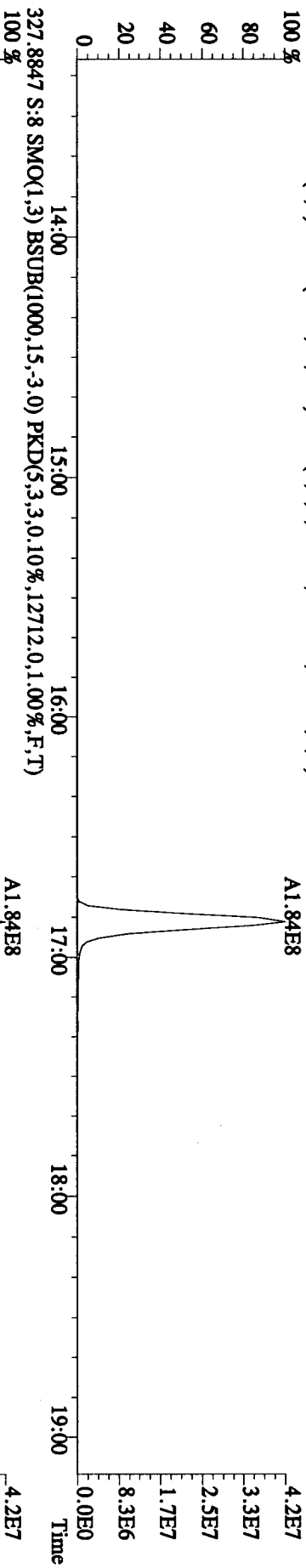
Fig:17DE091D5 #1-349 Acq:17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE
 Sample#8 Text:1-Q224-1-AA :G9L120491-9 Exp:DIOXIN
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12116,0,1,00%,F,T) A1.18E6
 100 %



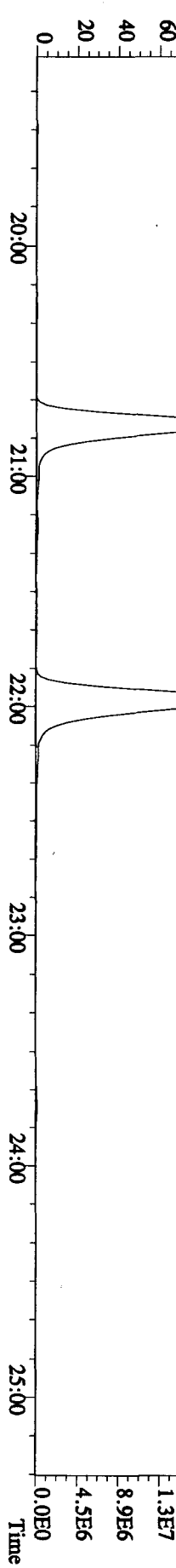
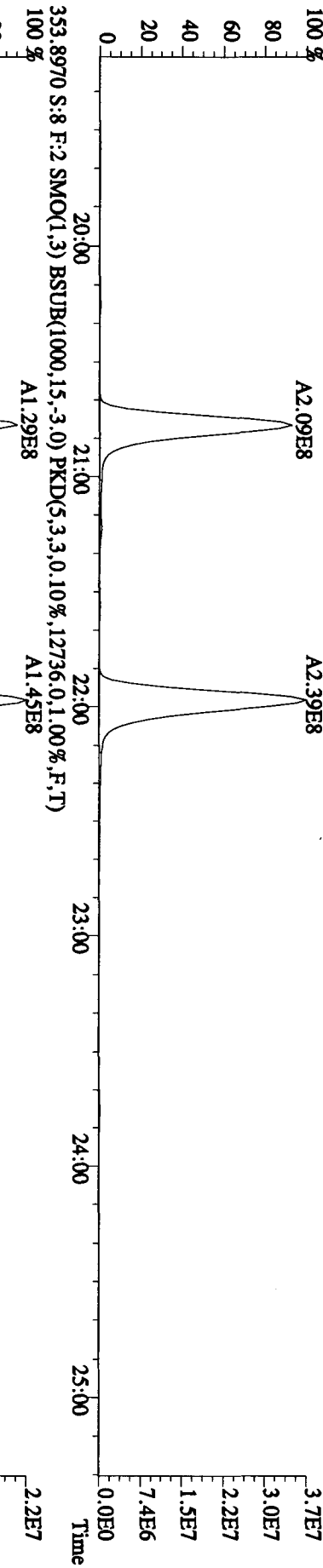
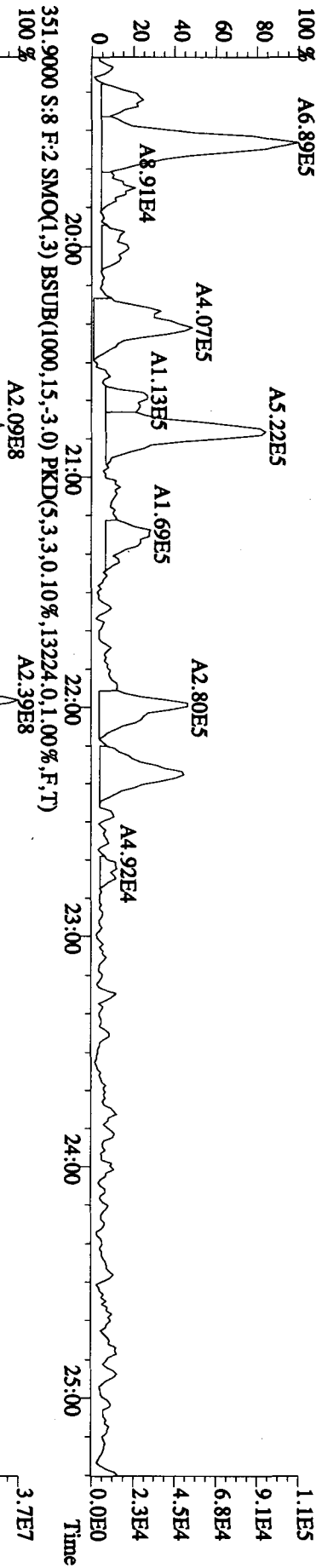
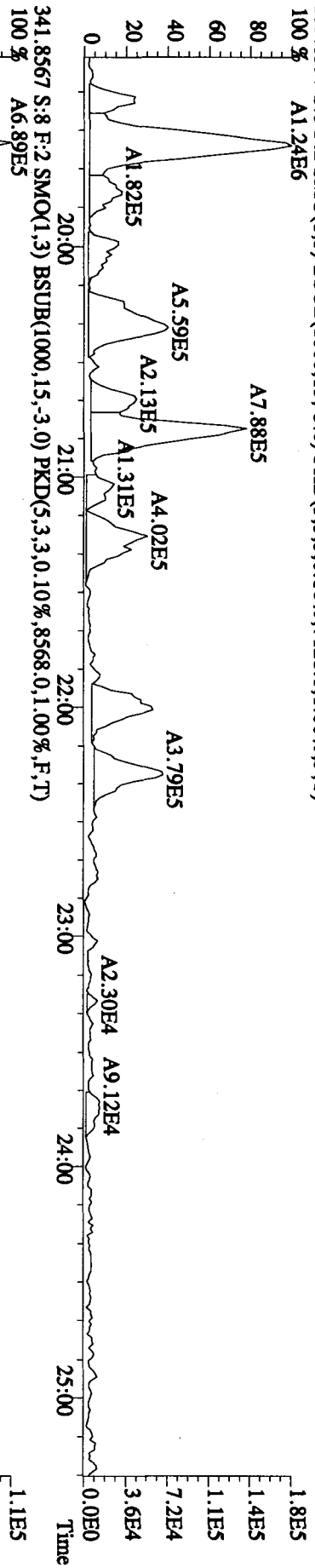
File:17DE091D5 #1-349 Acq:17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ224-1-AA :G9L120491-9 Exp:DIOXIN
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5328,0,1,00%,F,T) A1.34E5



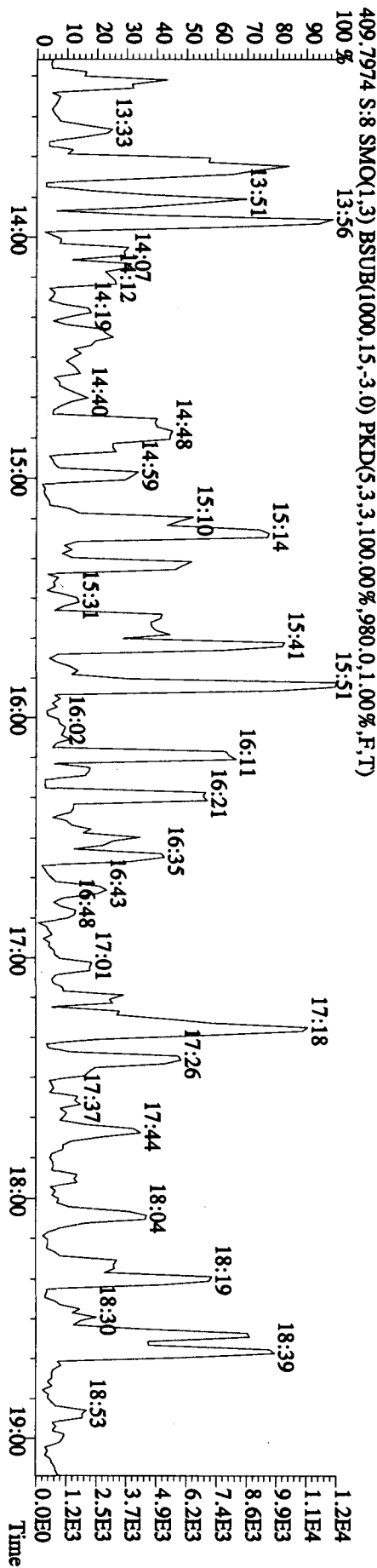
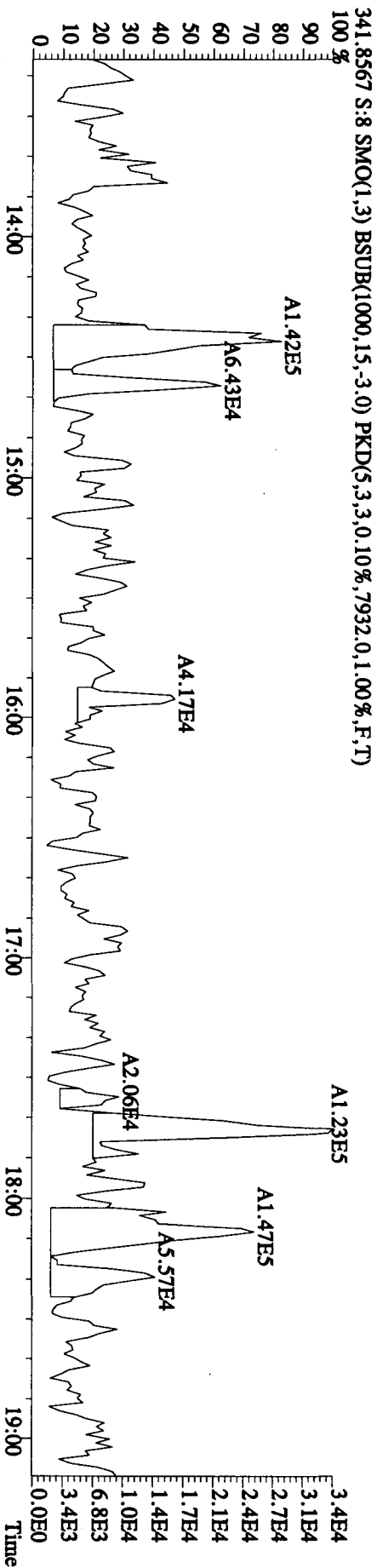
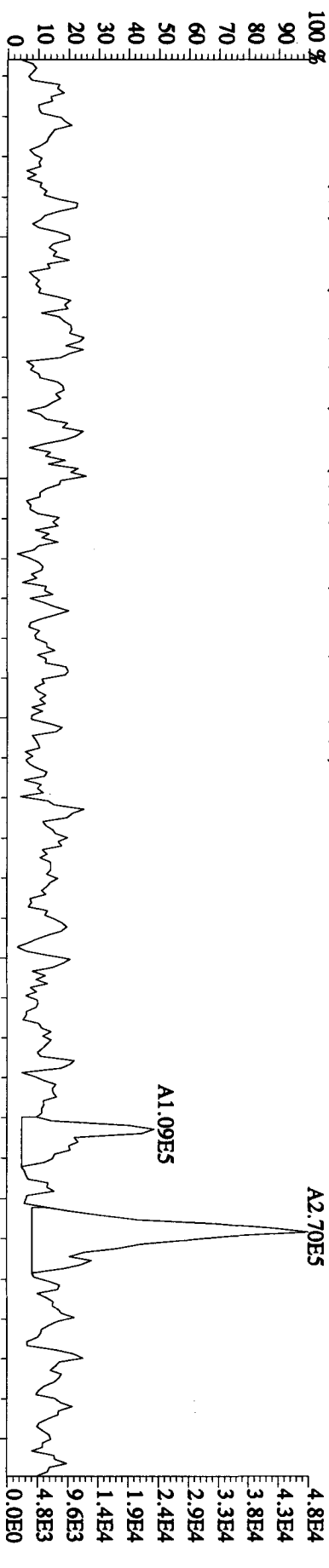
File:17DE091D5 #1-349 Acq:17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ224-1-AA :G9L120491-9 Exp:DIOXIN
 327.8847 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,12712,0,1,00%,F,T)
 100 %



File:17DE091D5 #1-434 Acq:17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ224-1-AA :G9L120491-9 Exp:DIOXIN
 339.8597 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7128,0.1,00%,F,T)
 100 % A1.24E6



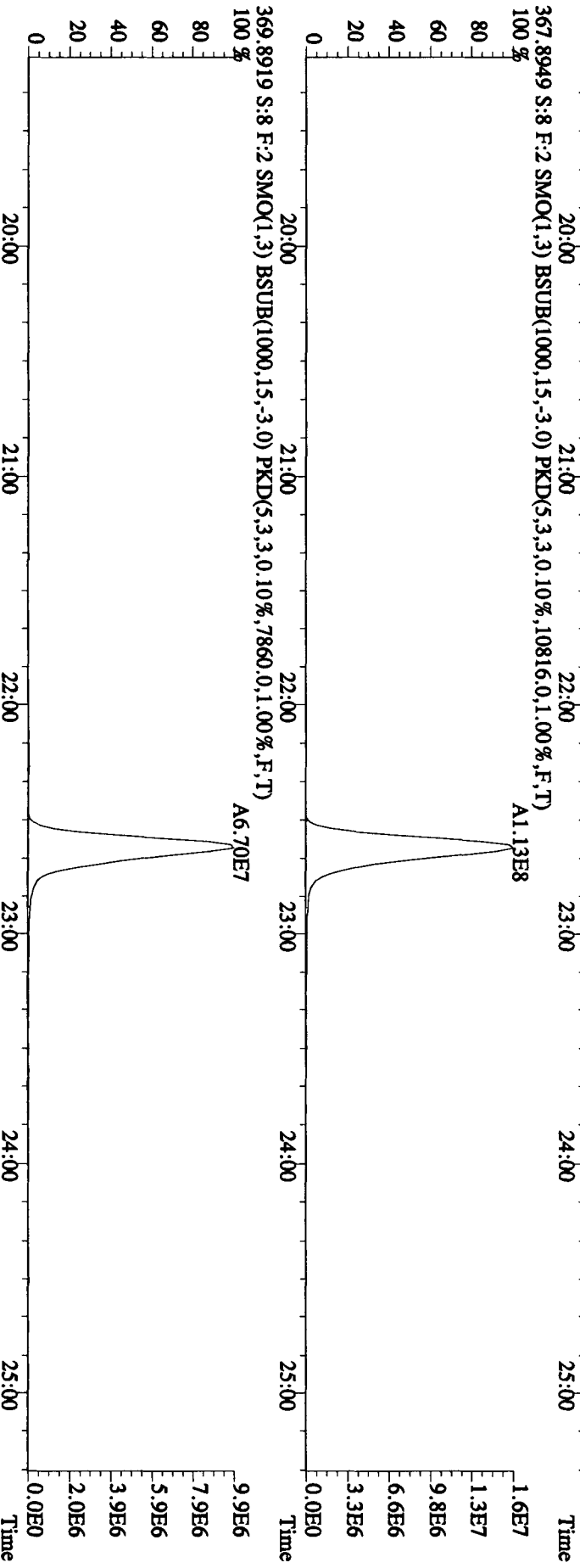
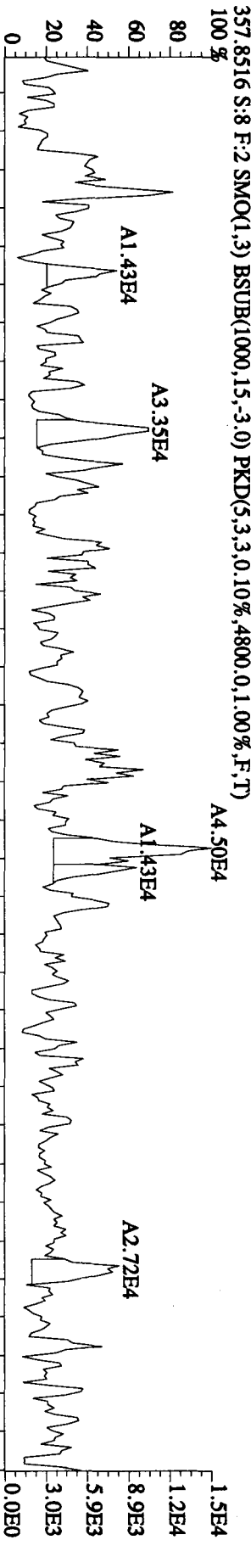
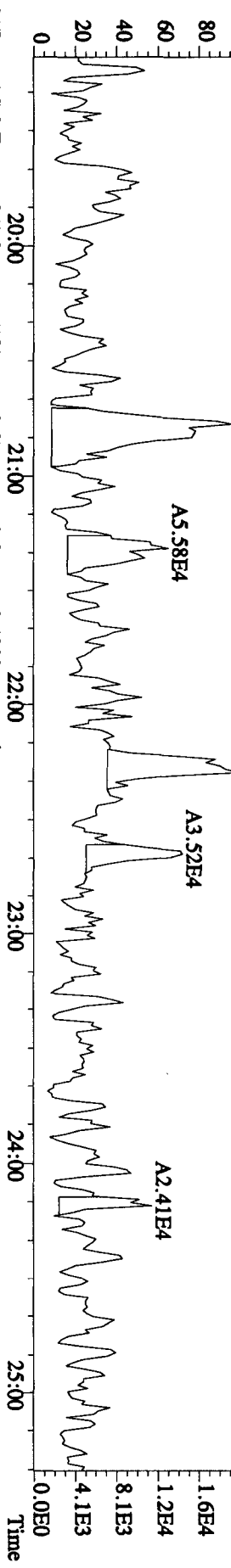
File:17DE091D5 #1-349 Acq:17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ224-1-AA :G9L120491-9 Exp:DIOXIN
 339.8597 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8084,0,1,00%,F,T) 100 %



File: 17DEC091D5 #1-434 Acq:17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE

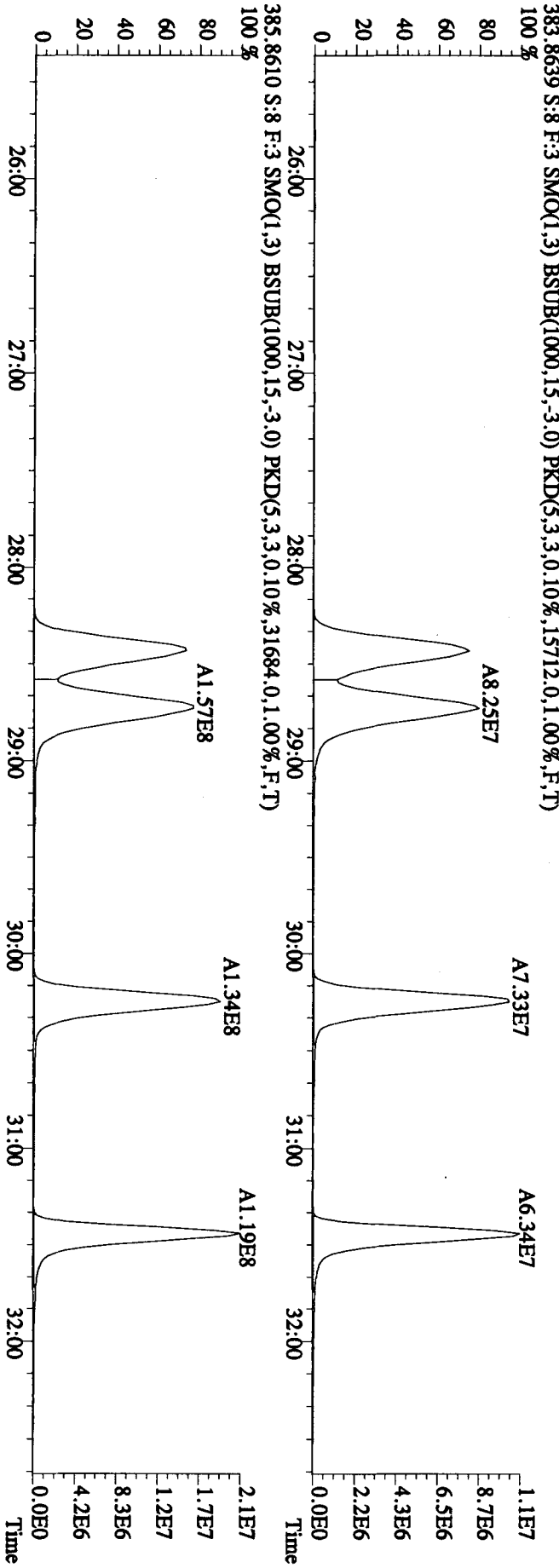
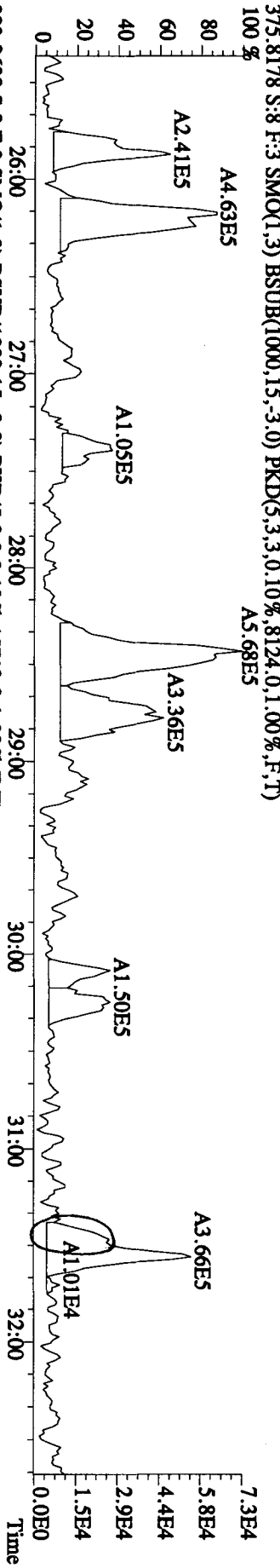
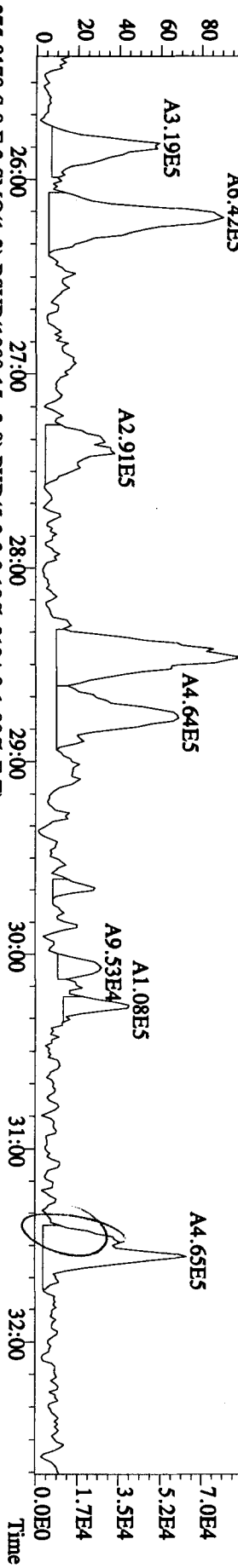
Exp: DIOXIN

Sample#8 Text: L:Q224-1-AA :G9L120491-9
357.8516 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6264,0.1,00%,F,T)

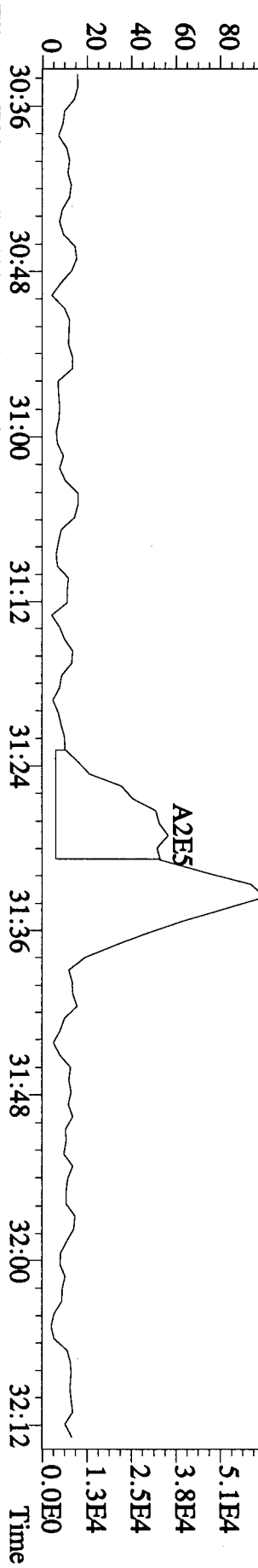


File: 17DE091D5 #1-492 Acq:17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE
 Exp: DIOXIN

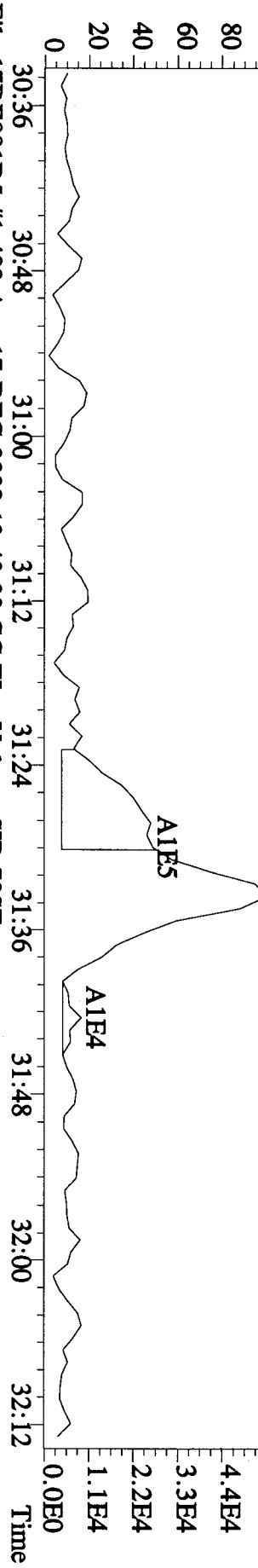
Sample#8 Text:LQ224-1-AA :G9L120491-9
 373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9364,0.1,0.0%,F,T)



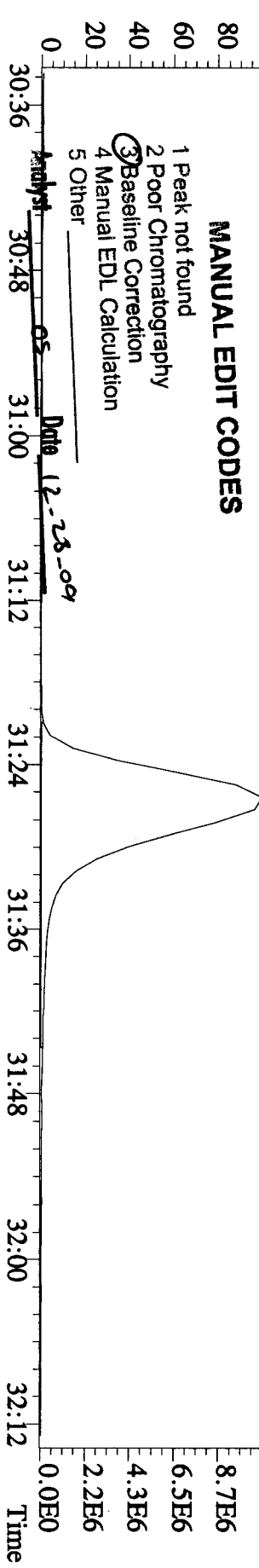
File: 17DE091D5 #1-492 Acq: 17-DEC-2009 13:40:29 GC EI + Voltage SIR 70SE
 373.8208 S: 8 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9364.0,1.00%,F,T) Exp: DIOXIN Nois >
 Sample Text: LQ224-1-AA : G9L120491-9



File: 17DE091D5 #1-492 Acq: 17-DEC-2009 13:40:29 GC EI + Voltage SIR 70SE
 375.8178 S: 8 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8124.0,1.00%,F,T) Exp: DIOXIN Nois >
 Sample Text: LQ224-1-AA : G9L120491-9



File: 17DE091D5 #1-492 Acq: 17-DEC-2009 13:40:29 GC EI + Voltage SIR 70SE
 383.8639 S: 8 F: 3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15712.0,1.00%,F,T) Exp: DIOXIN Nois >
 Sample Text: LQ224-1-AA : G9L120491-9



MANUAL EDIT CODES

- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other

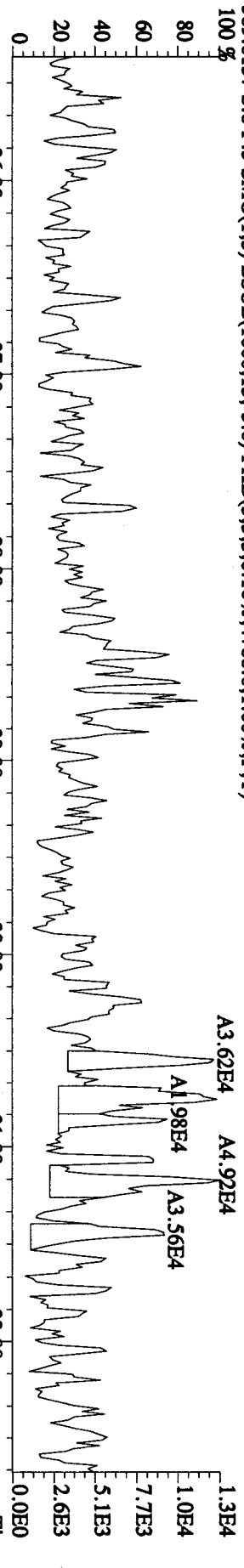
Analyt: 30:48 05 Date: 12-28-09

File:17DE091D5 #1-492 Acq:17-DEC-2009 13:40:29 GC EI+ Voltagr SIR 70SE

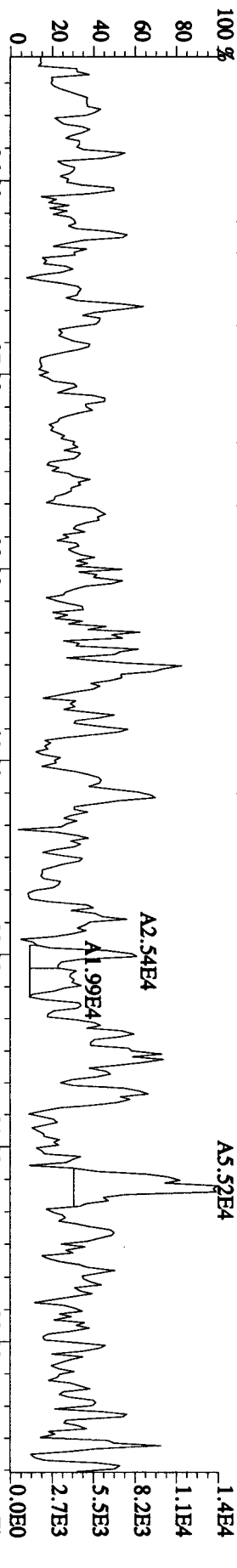
Sample#8 Text:LQ224-1-AA :G9L120491-9

Exp:DIOXIN

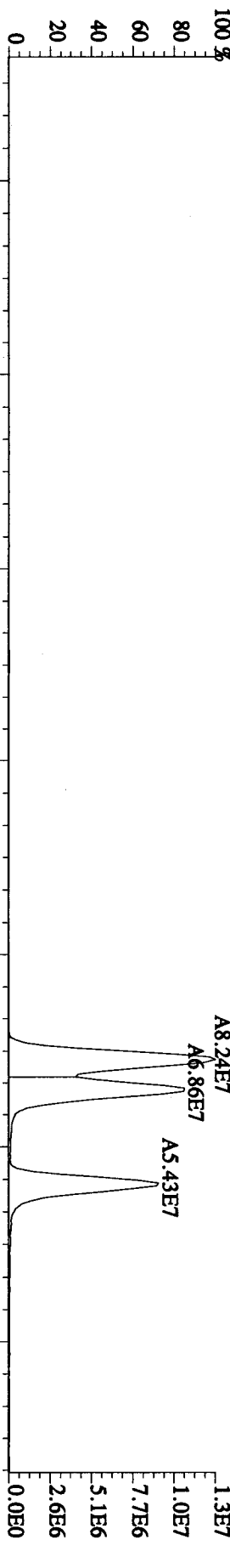
389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4788,0.1,00%,F,T)



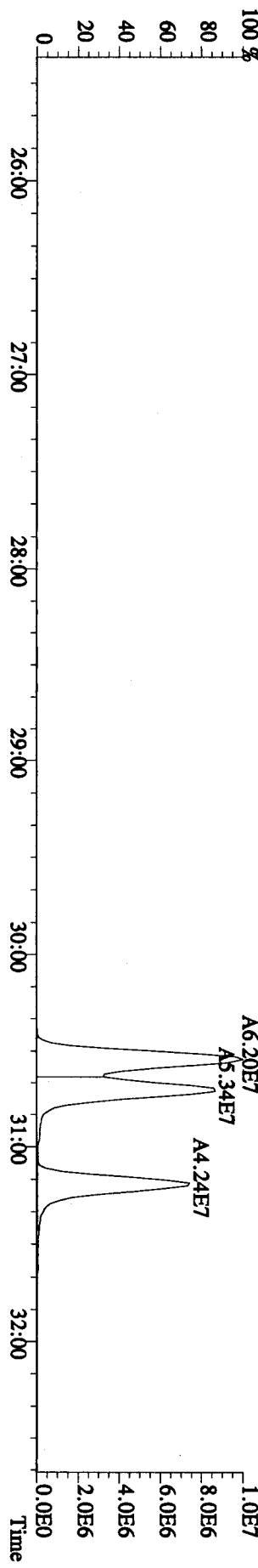
391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5220,0.1,00%,F,T)



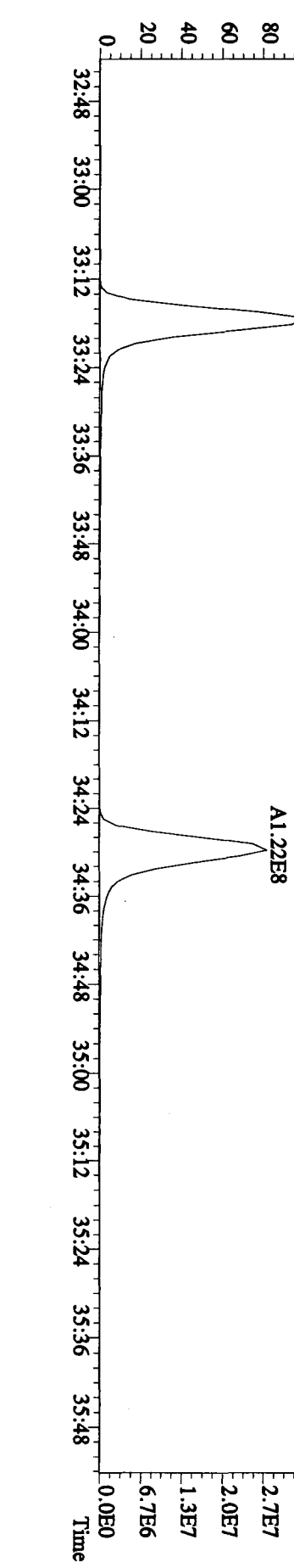
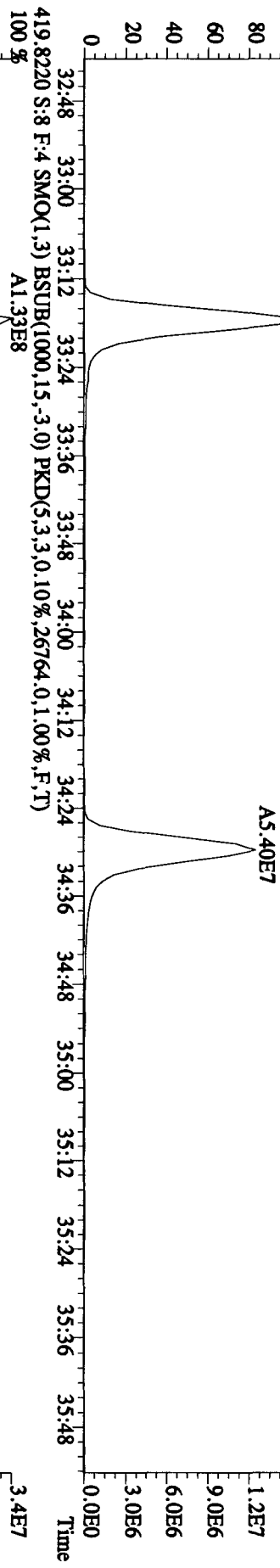
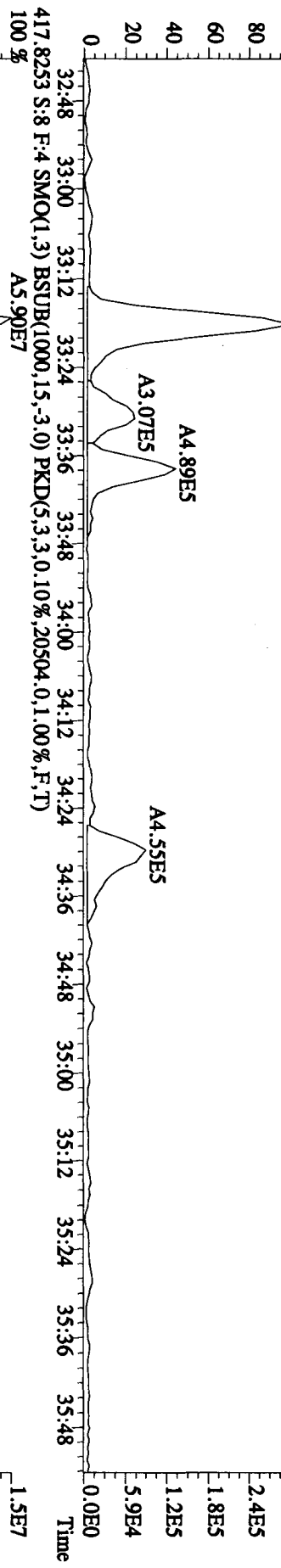
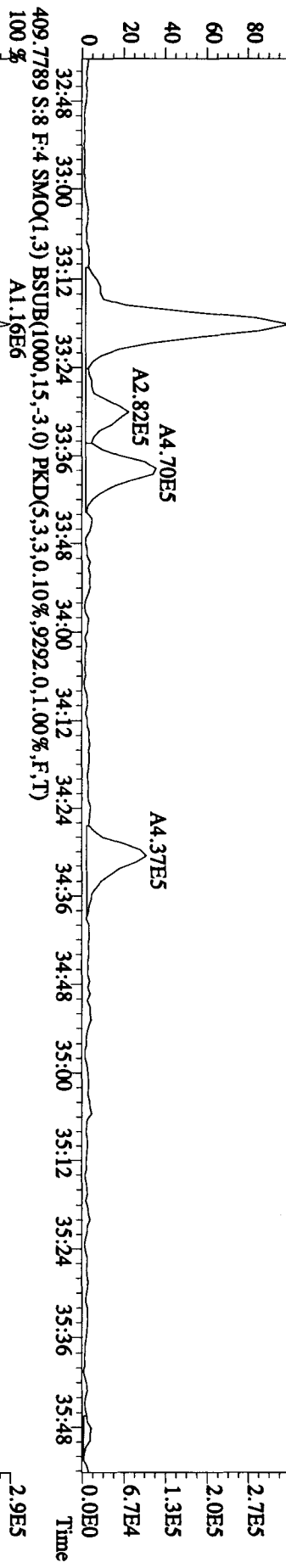
401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5556,0.1,00%,F,T)



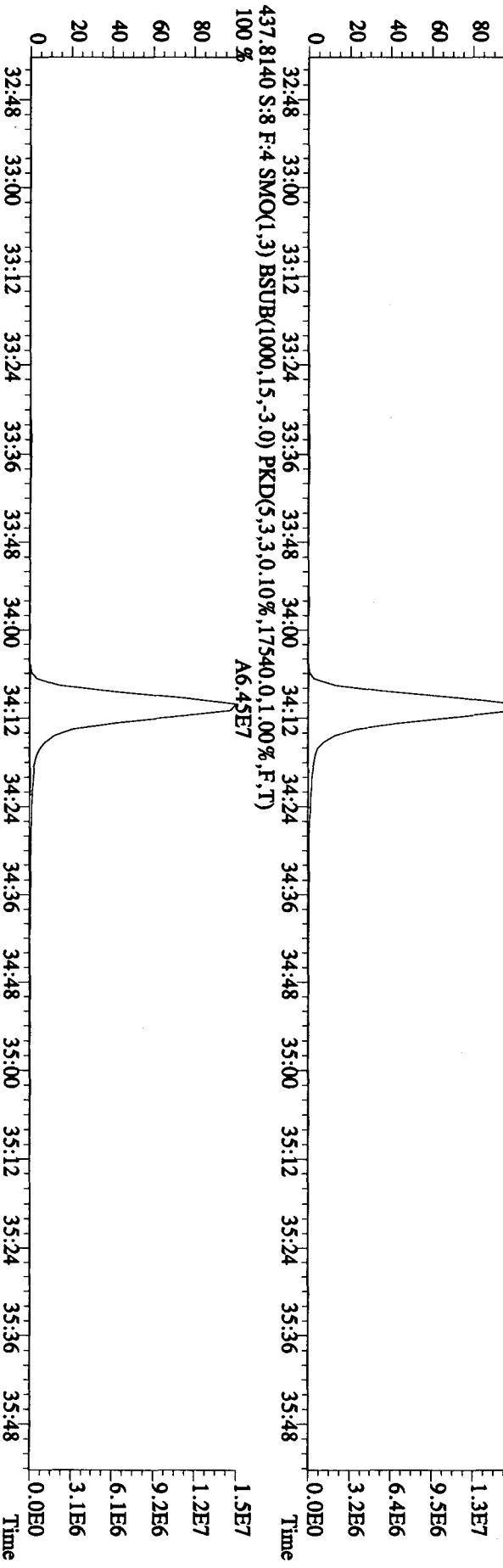
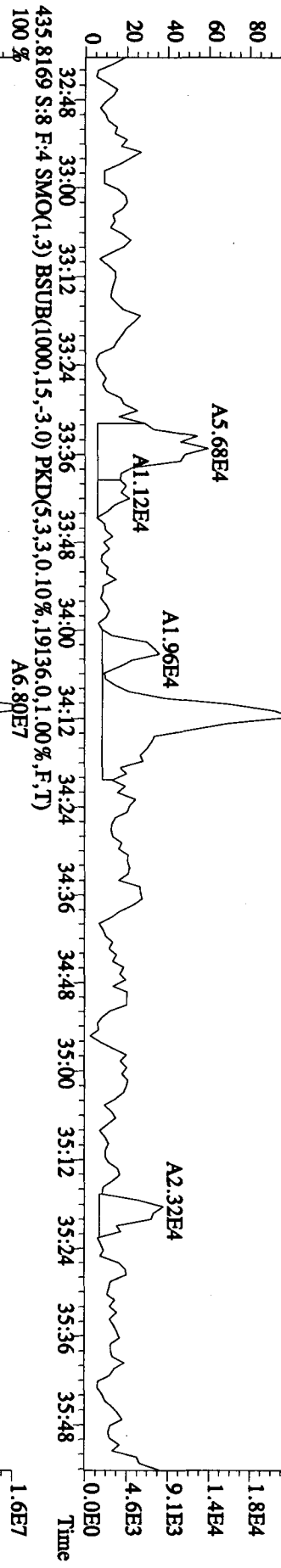
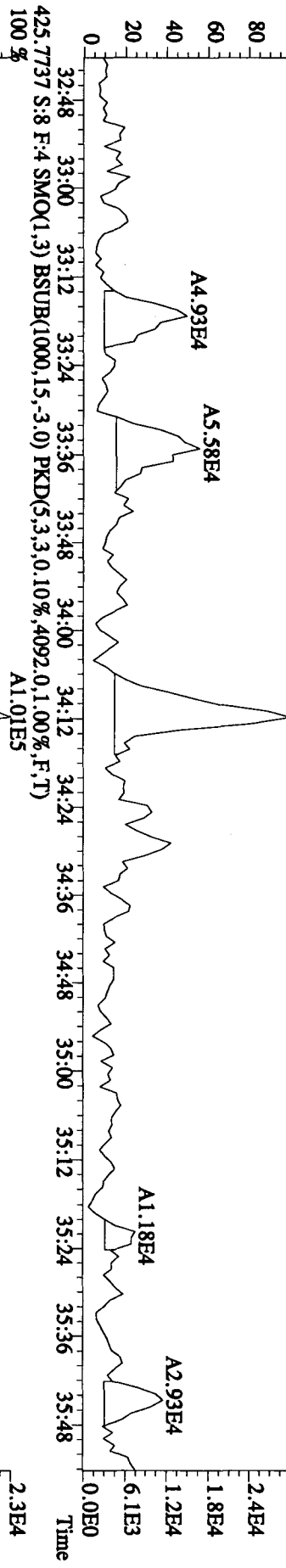
403.8529 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5656,0.1,00%,F,T)



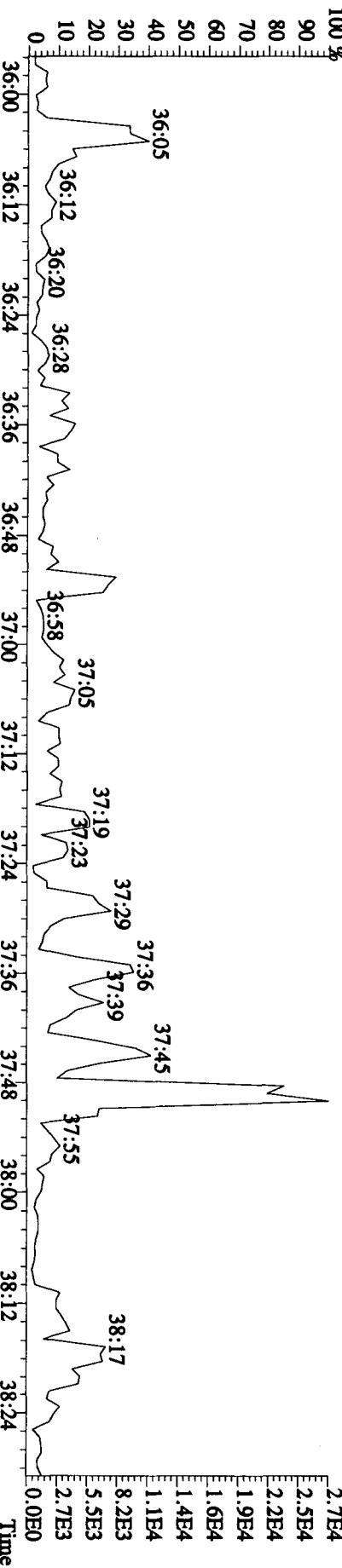
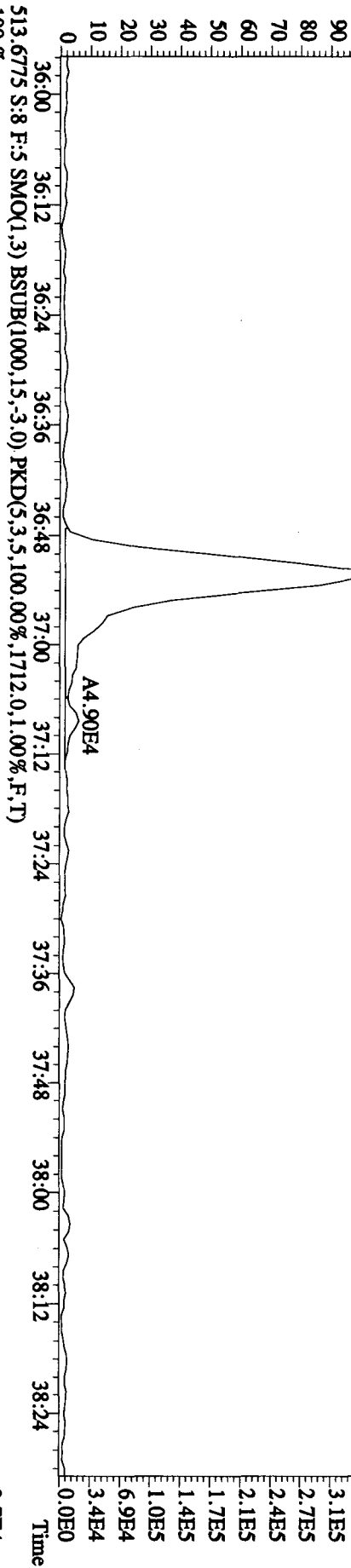
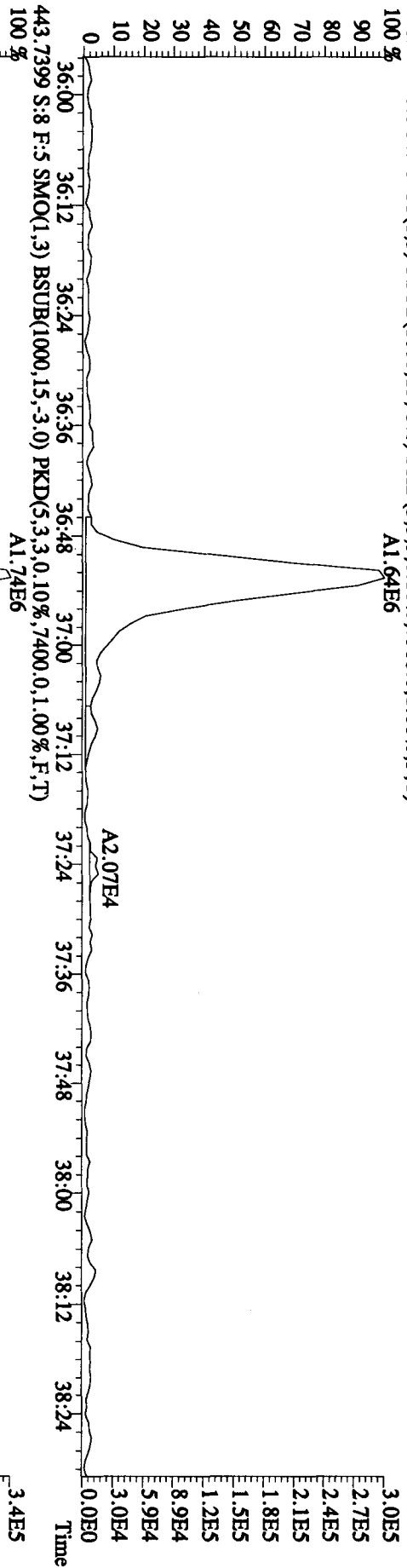
File: 17DE091D5 #1-226 Acq: 17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE
 Sample#8 Text: LQ224-1-AA :G9L120491-9 Exp: DIOXIN
 407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,10028,0.1,00%,F,T)
 100%



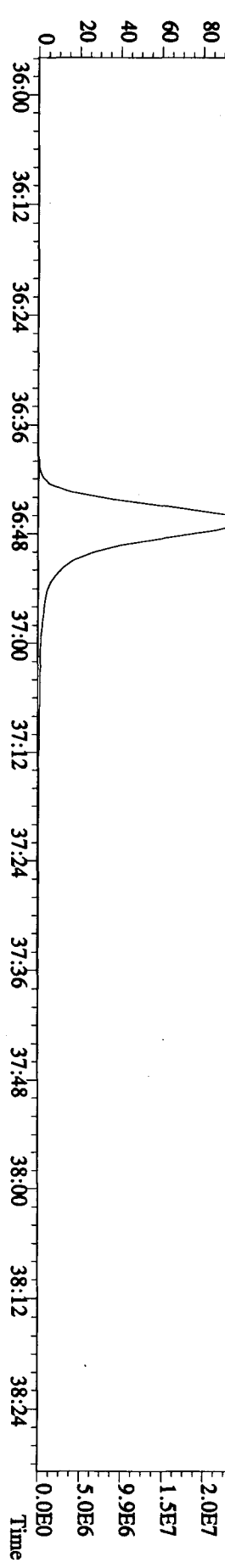
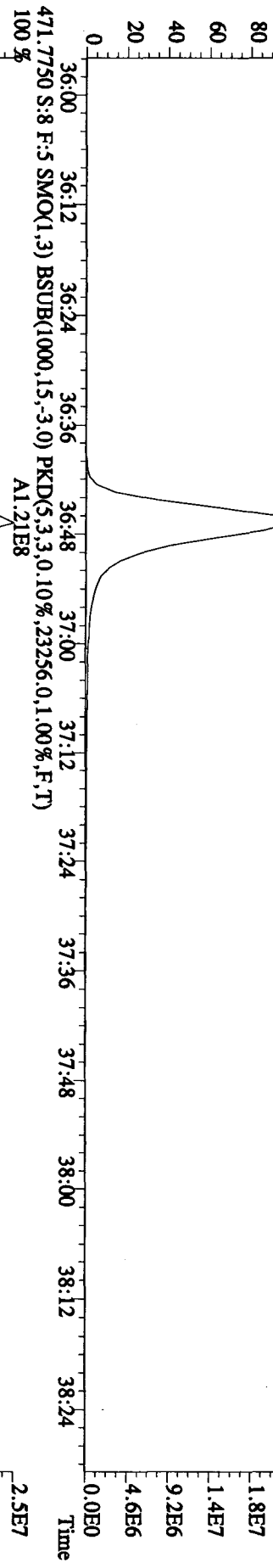
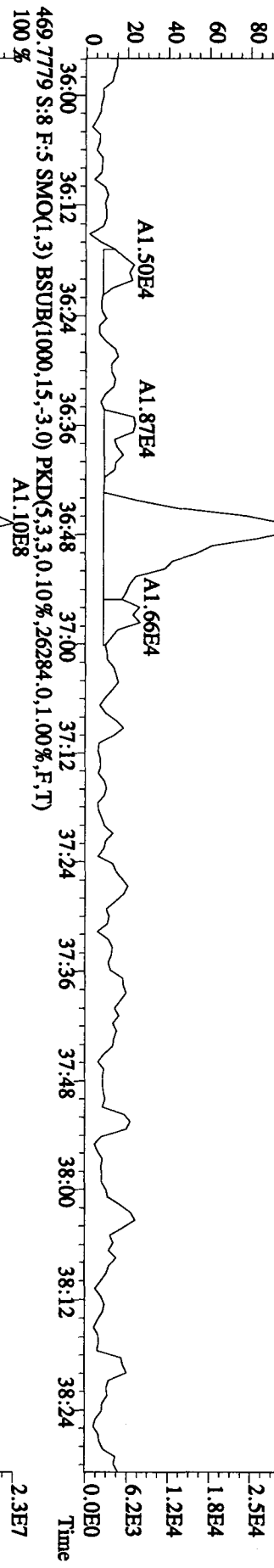
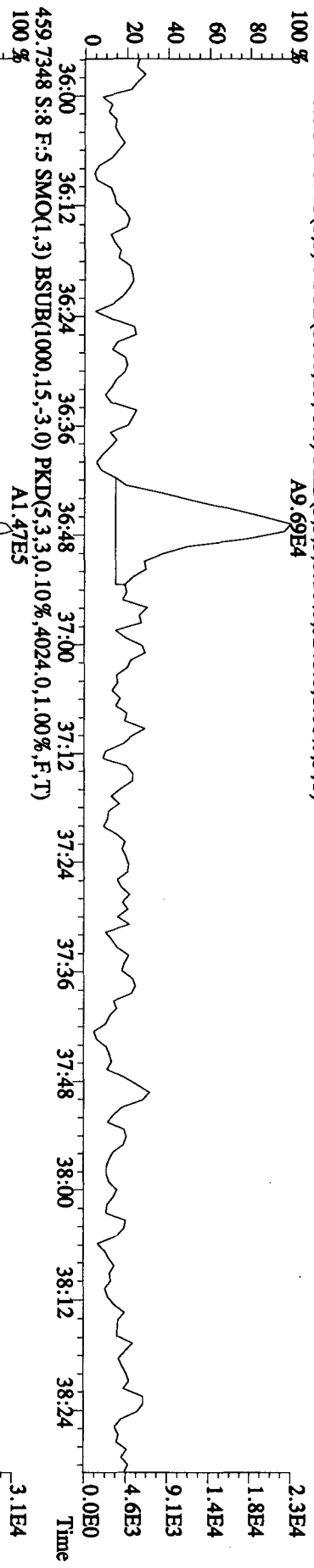
File:17DE091D5 #1-226 Acq:17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE
 Sample#8 Text:LQ224-1-AA :G9L120491-9 Exp:DIOXIN
 423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5228,0.1,00%,F,T)
 100%



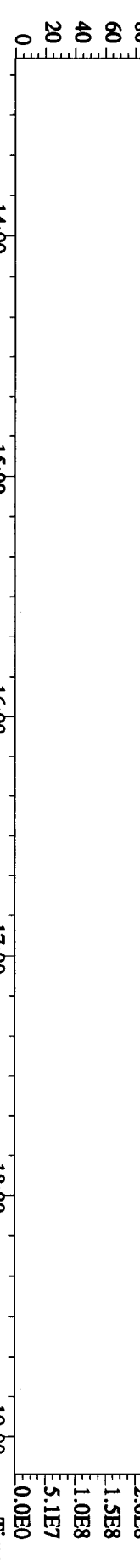
File:17DE091D5 #1-187 Acq:17-DEC-2009 13:40:29 GC EI + Voltage SIR 70SE
 Sample#8 Text:LQ224-1-AA :G9L120491-9 Exp:DIOXIN
 441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7388,0.1,00%,F,T)
 100%



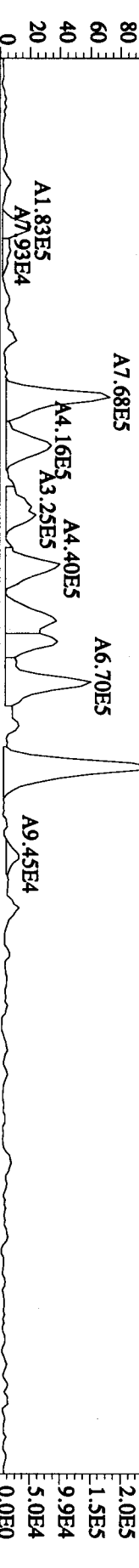
File: 17DE091D5 #1-187 Acq: 17-DEC-2009 13:40:29 GC EI + Voltage SIR 70SE
 Sample#8 Text: LQ224-1-AA :G9L120491-9 Exp: DIOXIN
 457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5248,0,1.00%,F,T)
 100 % A9.69E4



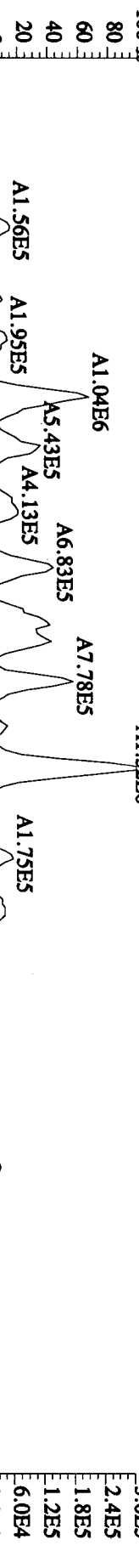
292.9825 S:8 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T) 13:34 13:55 14:32 14:54 15:18 15:47 16:25 17:04 17:23 17:50 18:29 18:54



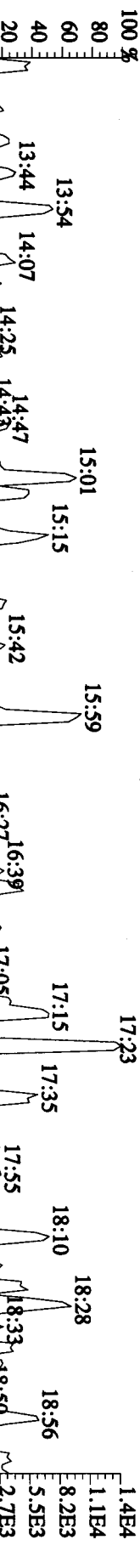
303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,12116,0,1.00%,F,T) 14:00 15:00 16:00 17:00 18:00 19:00



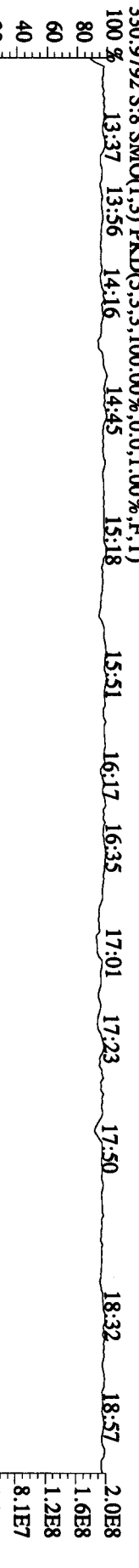
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,14252,0,1.00%,F,T) 14:00 15:00 16:00 17:00 18:00 19:00



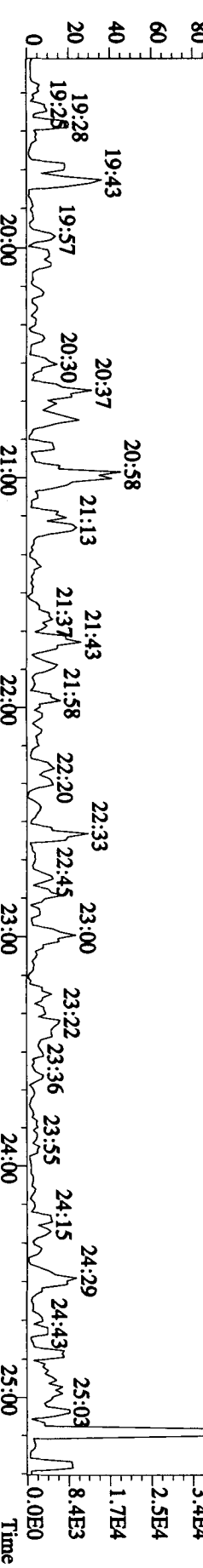
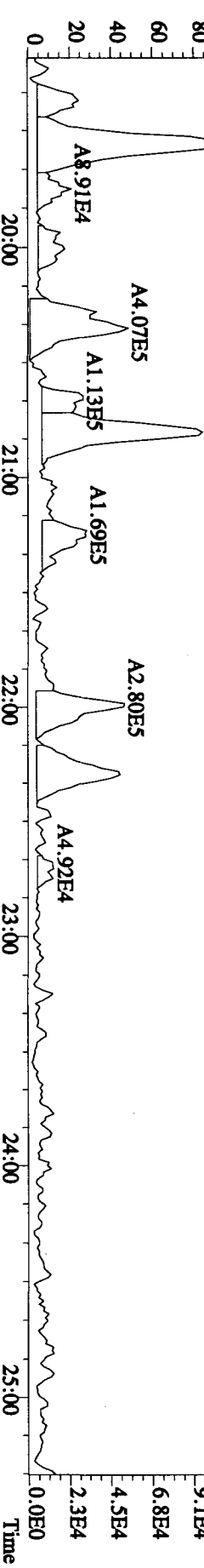
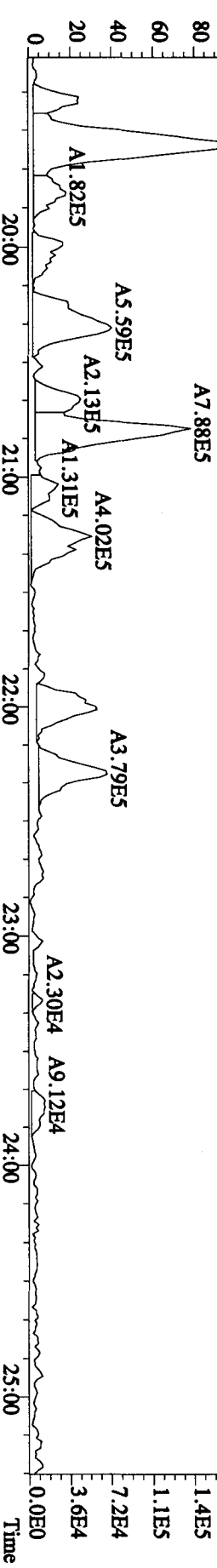
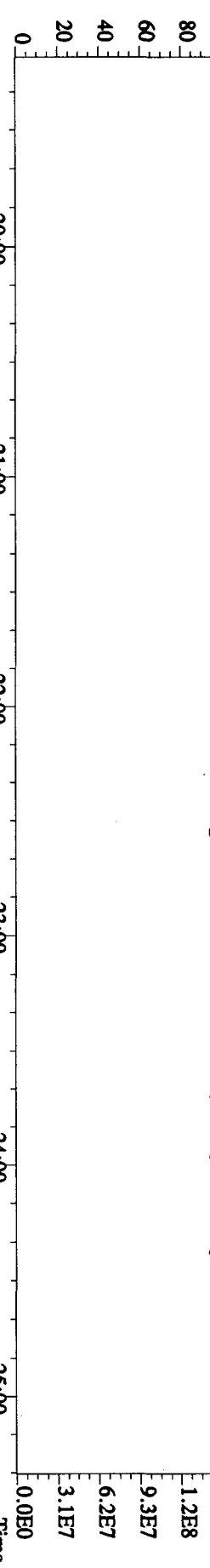
375.8364 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2100,0,1.00%,F,T) 14:00 15:00 16:00 17:00 18:00 19:00



330.9792 S:8 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T) 13:37 13:56 14:16 14:45 15:18 15:51 16:17 16:35 17:01 17:23 17:50 18:32 18:57



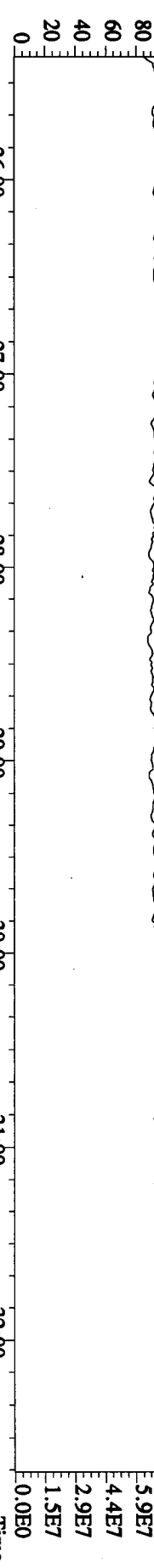
100% 13:37 13:56 14:16 14:45 15:18 15:51 16:17 16:35 17:01 17:23 17:50 18:32 18:57



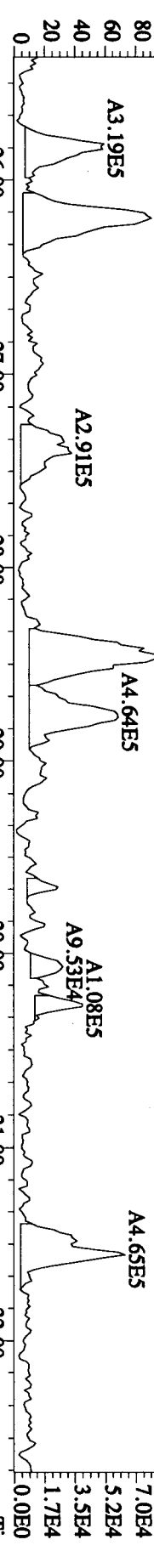
File: 17DE091D5 #1-492 Acq: 17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE

Sample#8 Text: LQ224-1-AA :G9L120491-9 Exp: DIOXIN

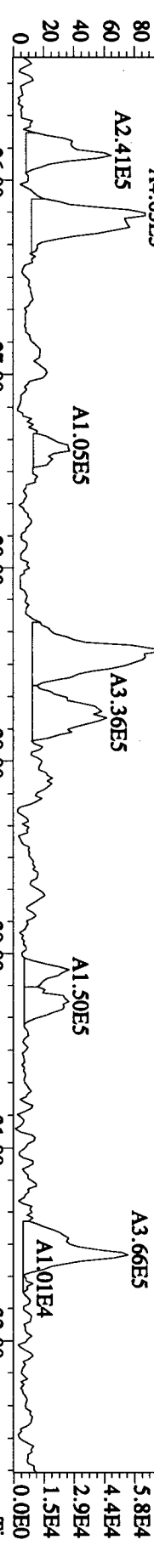
392.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 25:34 26:21 26:43 27:12 27:36 28:16 28:53 29:33 30:09 30:44 31:07 31:35 31:58 32:21



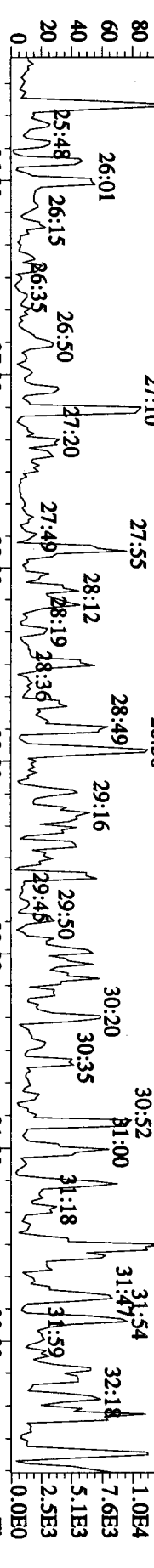
373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9364.0,1.00%,F,T) 26:00 27:00 28:00 29:00 30:00 31:00 32:00



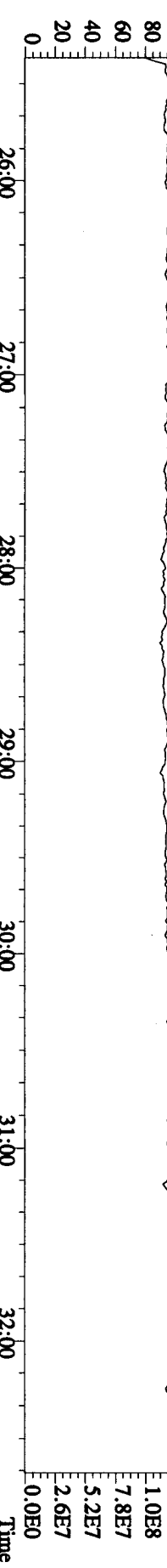
375.8178 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8124.0,1.00%,F,T) 26:00 27:00 28:00 29:00 30:00 31:00 32:00



445.7555 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1792.0,1.00%,F,T) 26:00 27:00 28:00 29:00 30:00 31:00 32:00



380.9760 S:8 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 25:47 26:18 26:54 27:20 28:17 28:53 29:20 29:45 30:09 30:41 31:09 31:37 32:23

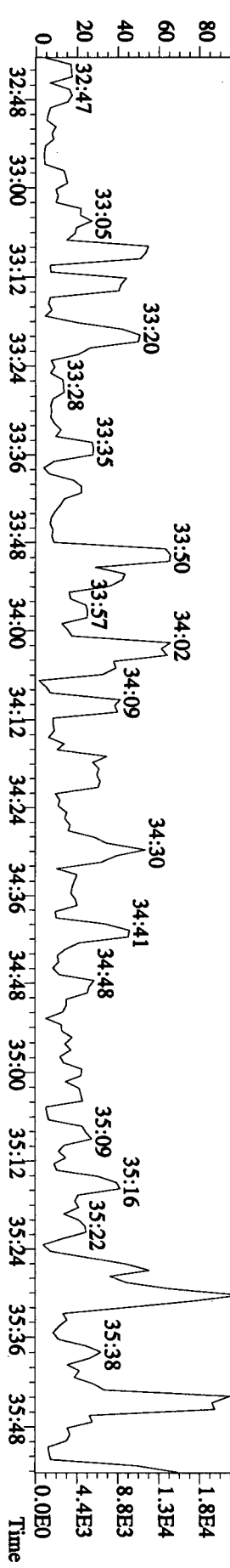
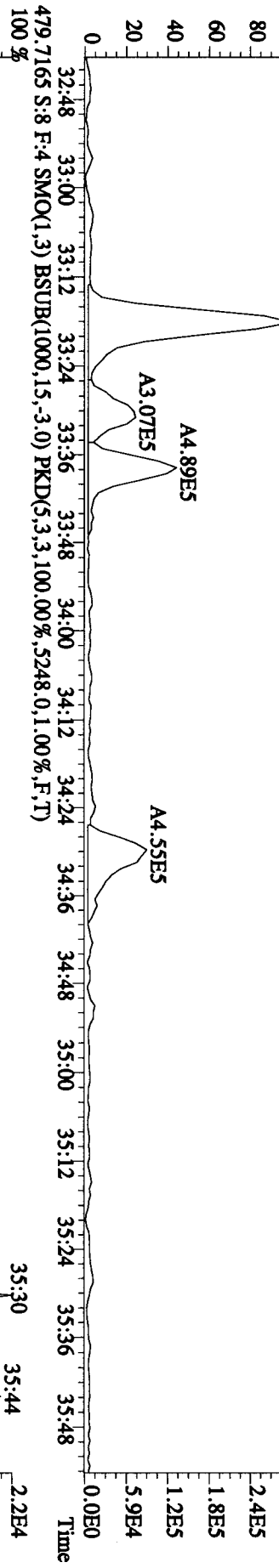
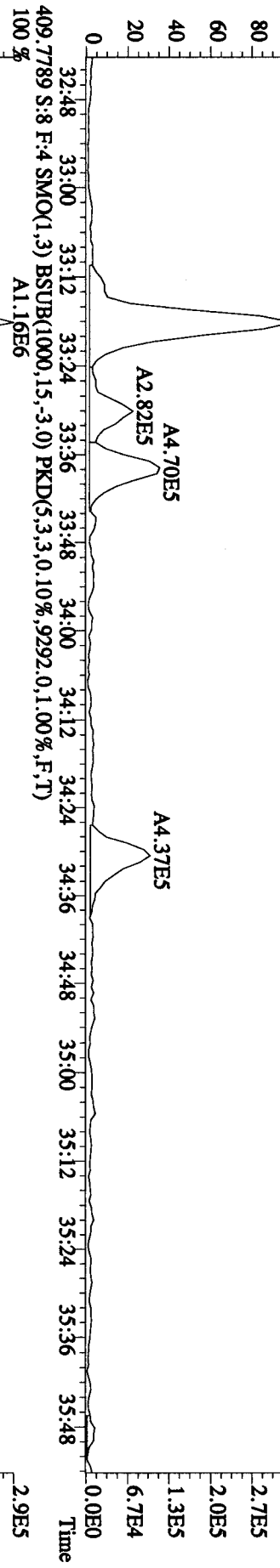
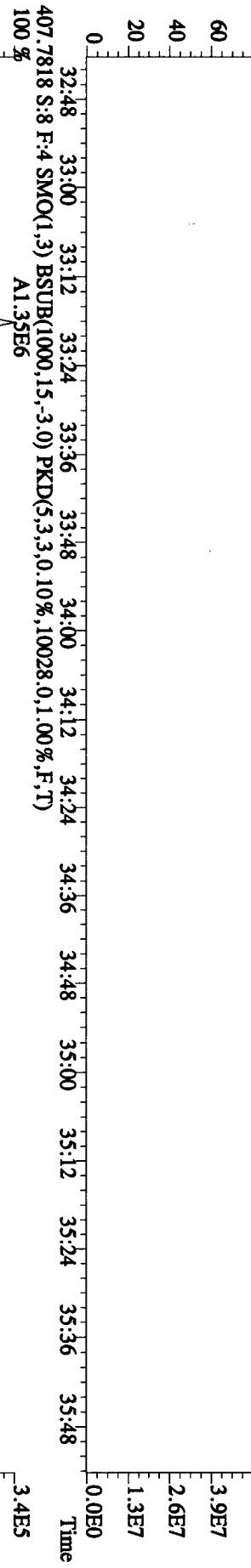


File:17DE091D5 #1-226 Acq:17-DEC-2009 13:40:29 GC EI+ Voltage SIR 70SE

Sample#8 Text:LQ224-1-AA :G9L120491-9 Exp:DIOXIN

430.9728 S:8 F:4 SMO(1,3) PKD(5,3,3,100,00%,0.0,1.00%,F,T)

100% 32:54 33:05 33:16 33:28 33:47 34:04 34:14 34:36 35:00 35:35

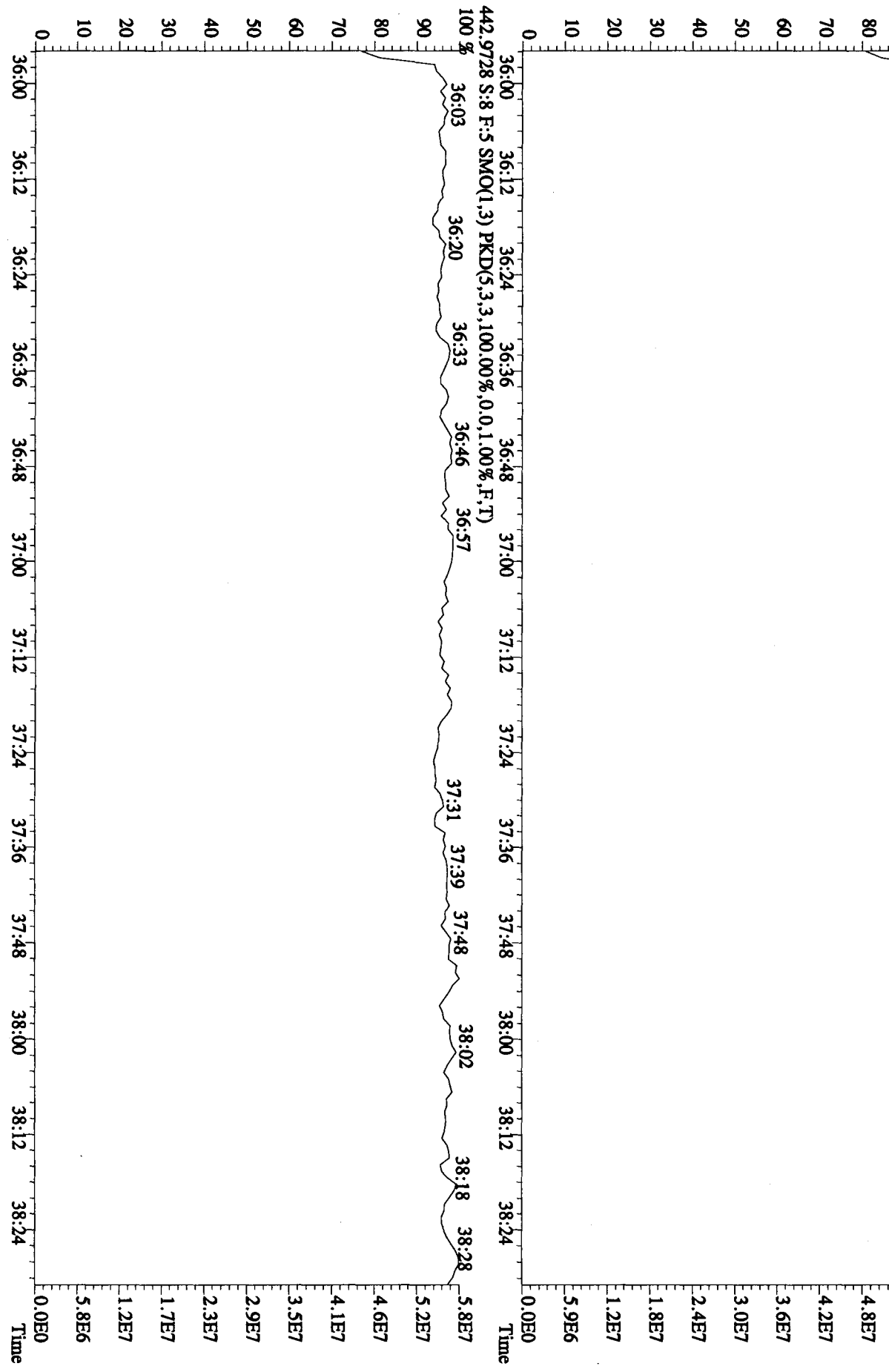


File: 17DE091D5 #1-187 Acq: 17-DEC-2009 13:40:29 GC EI + Voltage SIR 70SE

Sample#8 Text: LQ224-1-AA : G9L120491-9 Exp: DIOXIN

454,9728 S:8 F:5 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)

100% 36:02 36:21 36:32 36:43 37:01 37:18 37:41 37:55 38:03 38:12 38:20 5.9E7



Run text: LQ224-1-AA Sample text: LQ224-1-AA :G9L120491-9
 Run #14 Filename: 30DE09B5D2 S: 10 I: 1 Results: 30DE09B5D2DB2250S
 Acquired: 30-DEC-09 20:49:31 Processed: 31-DEC-09 10:31:57
 Run: 30DE09B5D2 Analyte: DB225HRS Cal: DB2251021095D2
 Factor 1:1600.000 Factor 2:20.000 Sample size: 1.05 L

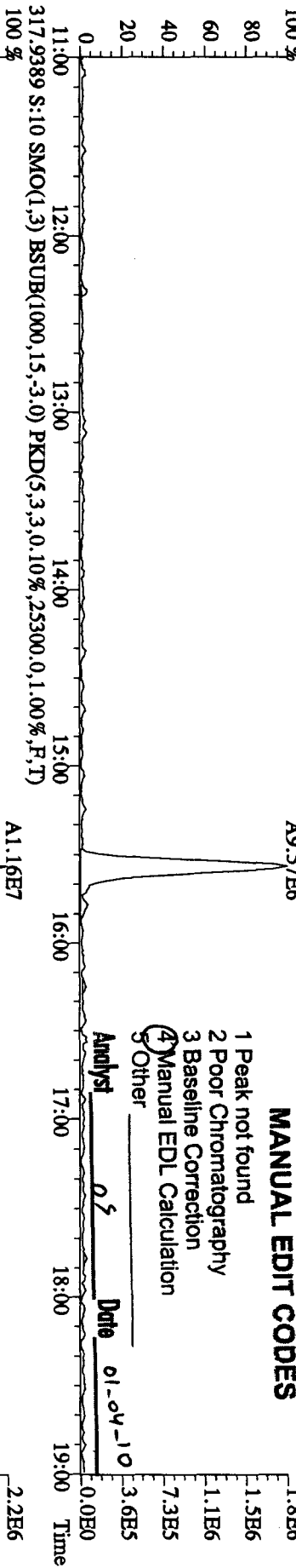
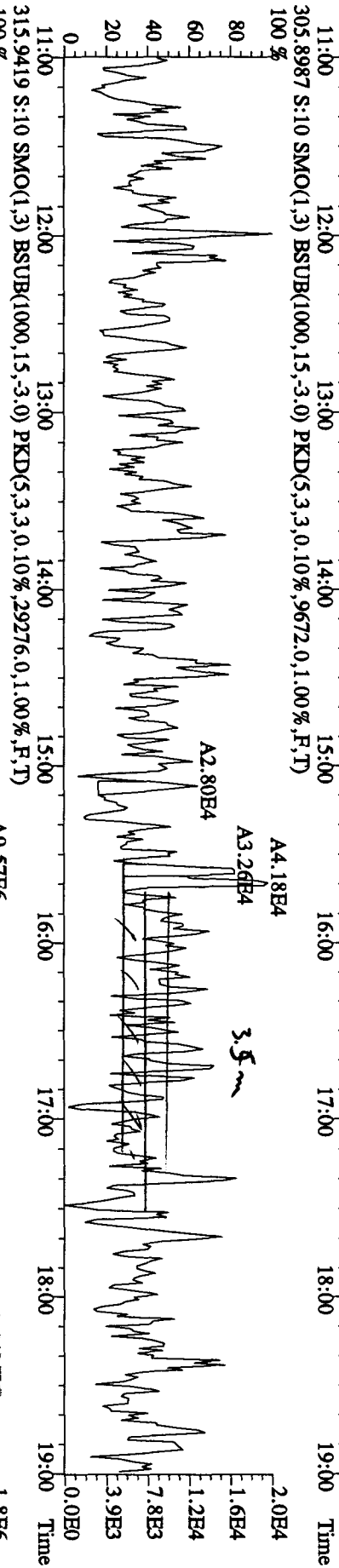
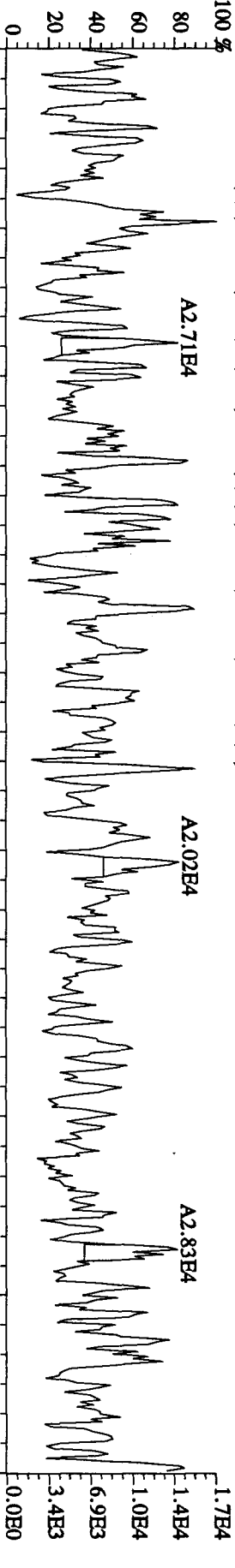
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	6841050	0.89 n	14:26	-	4.277	-	-	n
13C-2,3,7,8-TCDF	21160560	0.83 y	15:34	1.98	1488.803	60.568	78.3 /	n
2,3,7,8-TCDF	94338	0.81 y	15:34	1.18	7.186 /	22.431 4.01	-	Y
13C-2,3,7,8-TCDD	10246680	0.81 y	14:13	0.97	1466.874	89.312	77.1	n
2,3,7,8-TCDD	*	* n	NotFnd	1.51	*	35.233	-	n
37Cl-2,3,7,8-TCDD	13531240	1.00 y	14:14	2.70	695.389	13.268	91.4	n

OS
 0 12-4-10

Run text: LQ224-1-AA Sample text: LQ224-1-AA :G9L120491-9
 Run #14 Filename: 30DE09B5D2 S: 10 I: 1 Results: 30DE09B5D2DB225
 Acquired: 30-DEC-09 20:49:31 Processed: 31-DEC-09 10:31:57
 Run: 30DE09B5D2 Analyte: DB225HRS Cal: DB2251021095D2
 Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.051700L

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	6841051	0.89 n	14:26	-	4.28	-	-	n
13C-2,3,7,8-TCDF	21160520	0.83 y	15:34	1.98	1488.80	60.57	78.3	n
2,3,7,8-TCDF	46406	0.62 n	15:34	1.18	3.53 <i>J,R</i>	22.43	-	n
13C-2,3,7,8-TCDD	10246674	0.81 y	14:13	0.97	1466.87	89.31	77.1	n
2,3,7,8-TCDD	*	* n	NotFnd	1.51	*	35.23	-	n
37Cl-2,3,7,8-TCDD	13531232	1.00 y	14:14	2.70	695.39	13.27	91.4	n

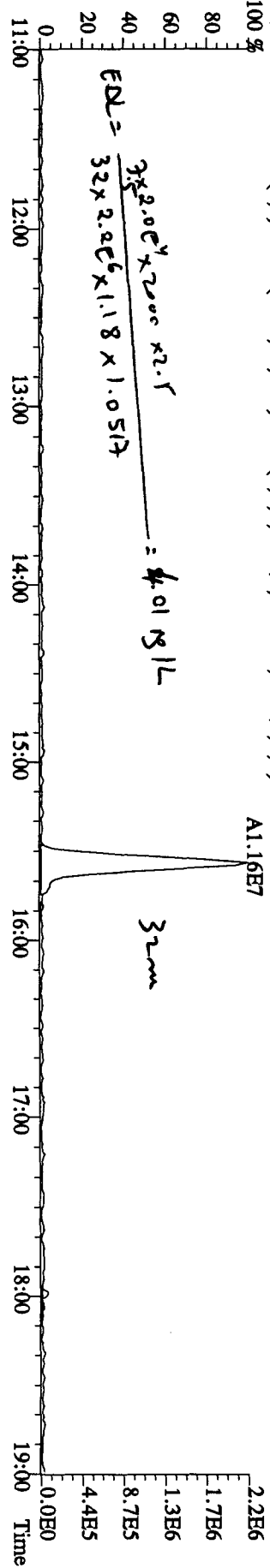
File:30DE09B5D2 #1-1242 Acq:30-DEC-2009 20:49:31 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LQ224-1-AA :G9L120491-9 Exp:DB225
 303.9016 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8812,0,1,00%,F,T)
 100%



$$EDL = \frac{3 \times 2.0 \times 10^4 \times 2000 \times 2.1}{32 \times 2.0 \times 10^6 \times 1.18 \times 1.0517} = 4.01 \text{ g/L}$$

- MANUAL EDIT CODES**
- 1 Peak not found
 - 2 Poor Chromatography
 - 3 Baseline Correction
 - 4 Manual EDL Calculation
 - 5 Other _____

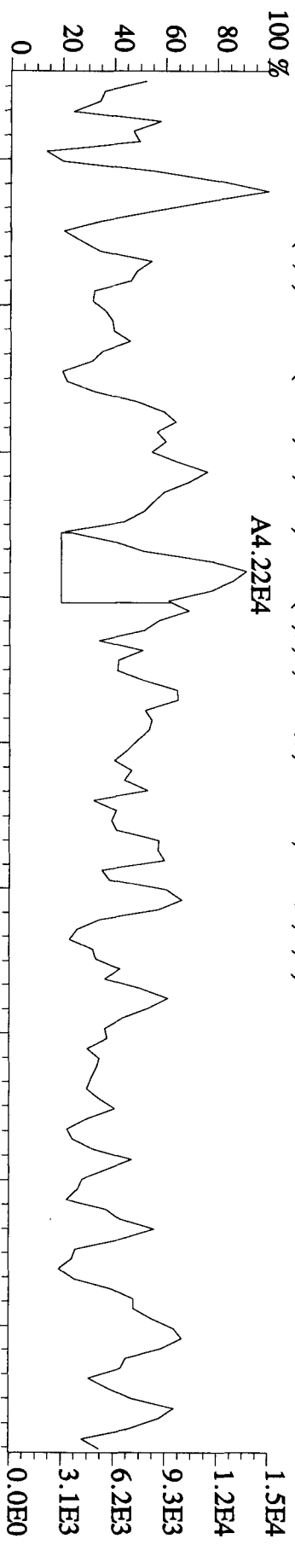
Analyst 02 Date 01-04-10



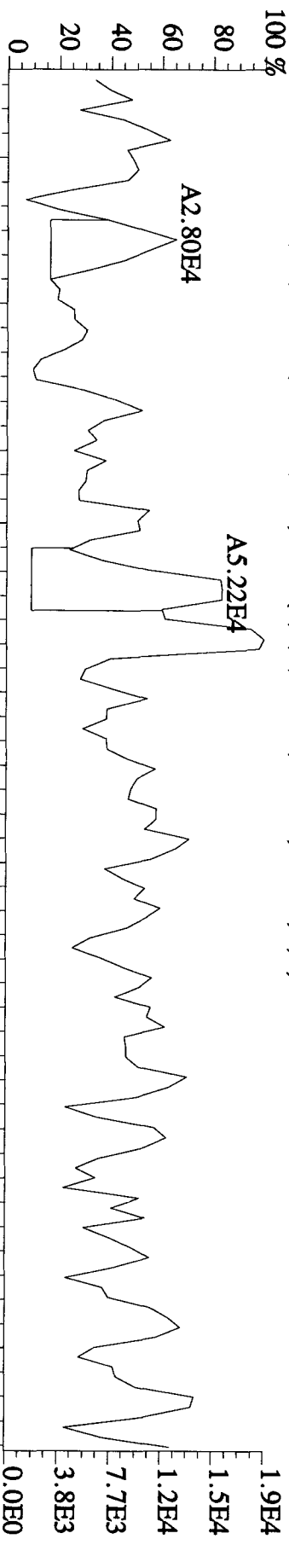
File:30DE09B5D2 #1-1242 Acq:30-DEC-2009 20:49:31 GC EI + Voltage SIR 70SE

Sample#10 Text:LQ224-1-AA :G9L120491-9 Exp:DB225

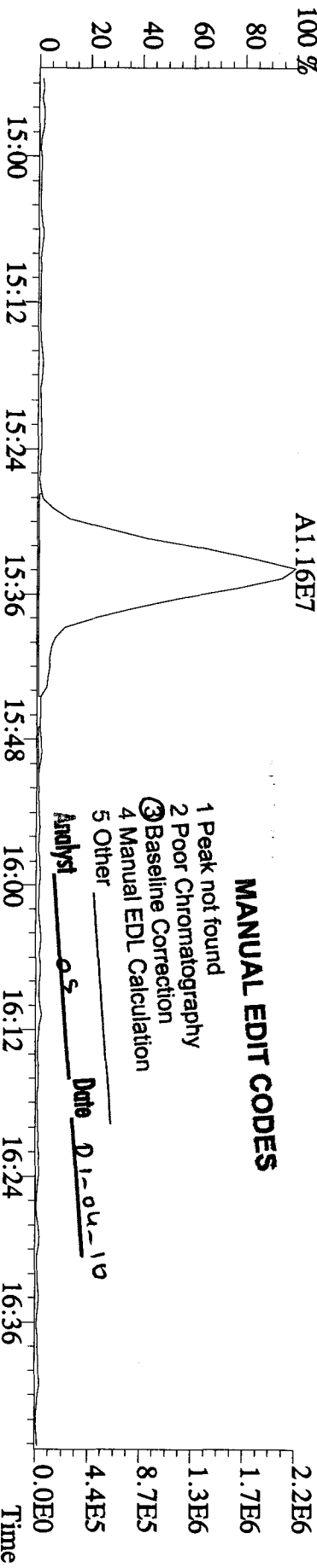
303.9016 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8812.0,1.00%,F,T)



305.8987 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9672.0,1.00%,F,T)



317.9389 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,25300.0,1.00%,F,T)



MANUAL EDIT CODES

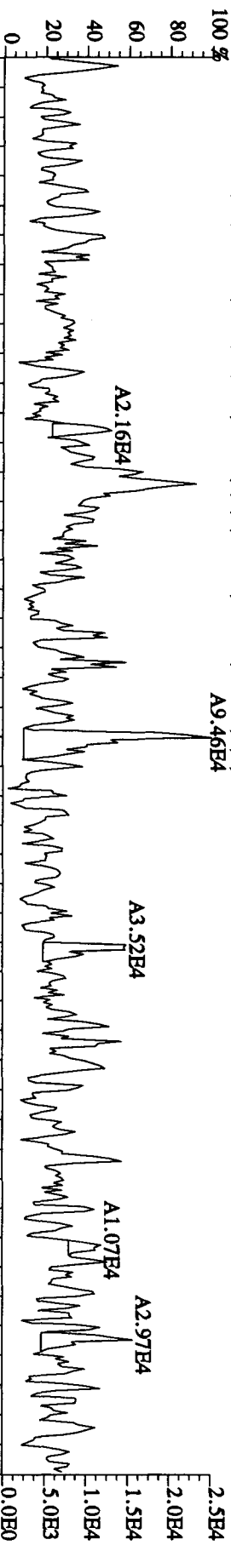
- 1 Peak not found
- 2 Poor Chromatography
- 3 Baseline Correction
- 4 Manual EDL Calculation
- 5 Other

Analyst os Date 01-04-10

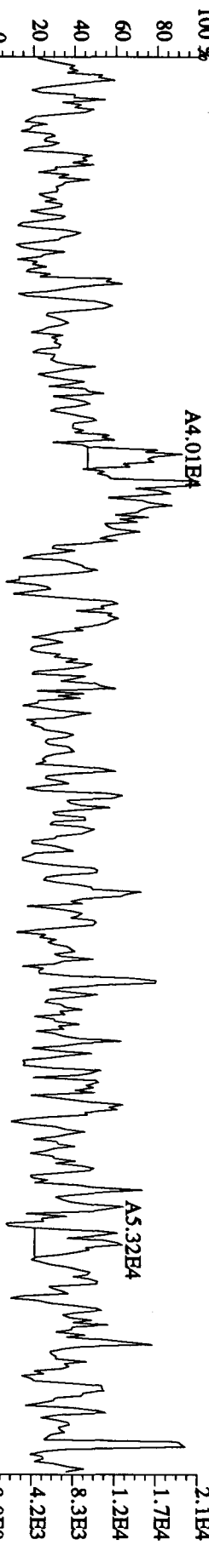
File:30DE09B5D2 #1-1242 Acq:30-DEC-2009 20:49:31 GC EI+ Voltage SIR 70SE

Exp:DB225

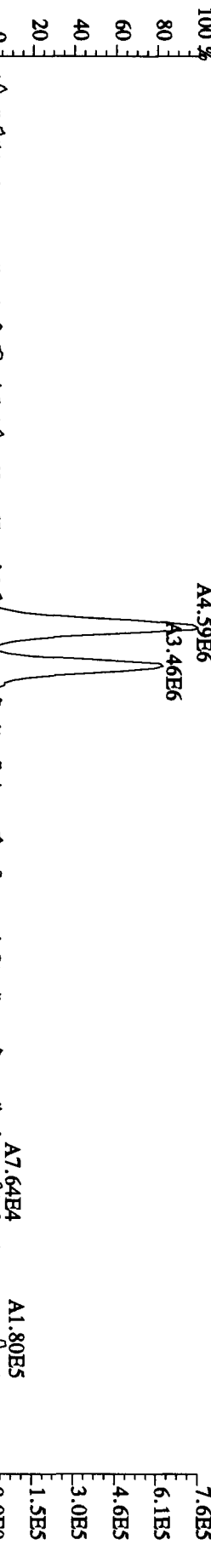
Sample#10 Text:LO224-1-AA :G9L120491-9
319.8965 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7912.0,1.00%,F,T)
100% A9.46E4



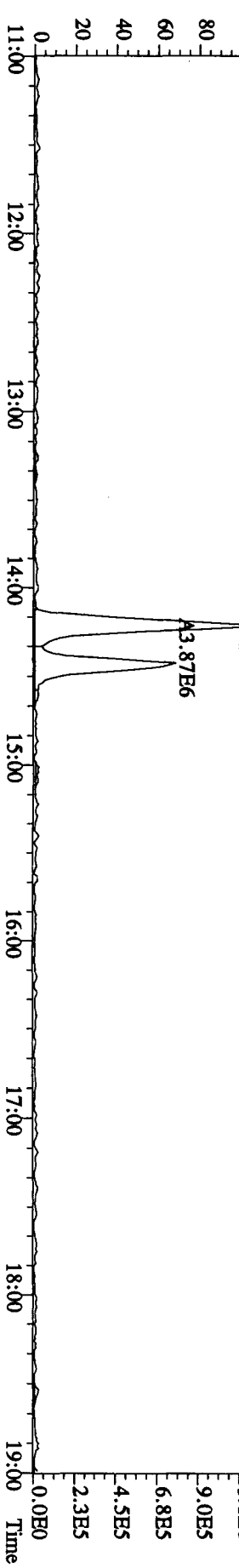
321.8936 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,9264.0,1.00%,F,T)
100% A4.01E4



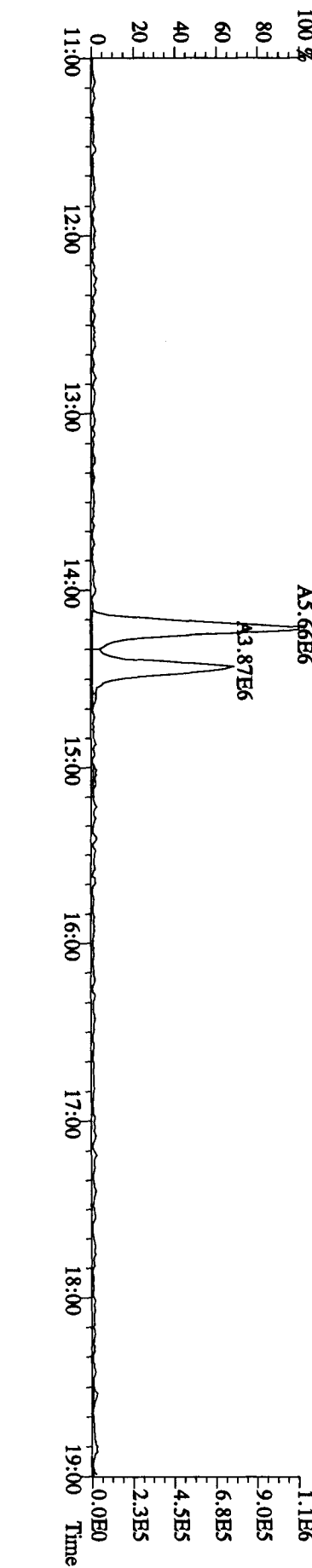
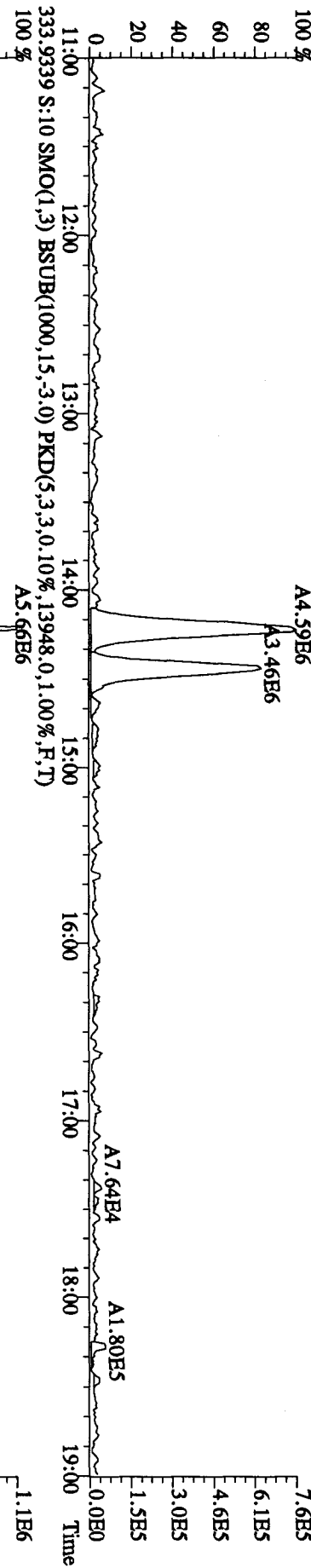
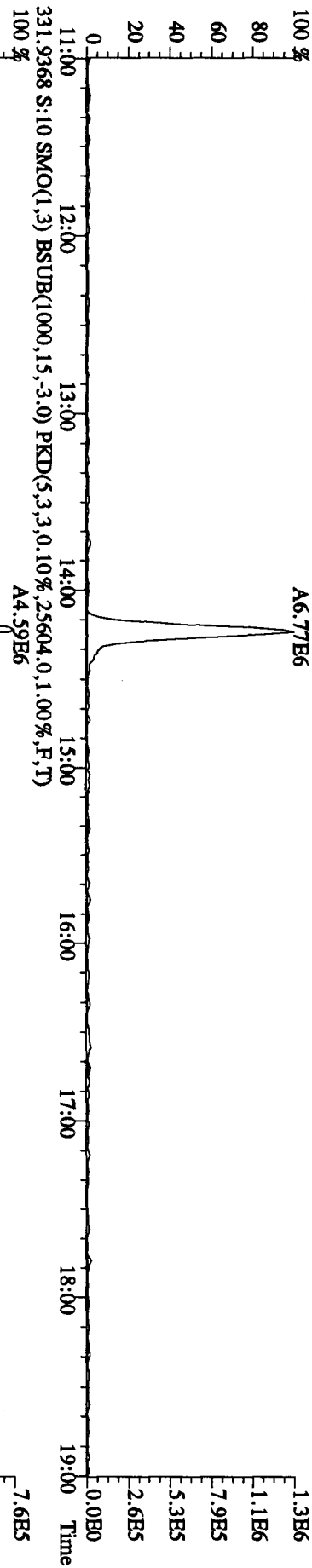
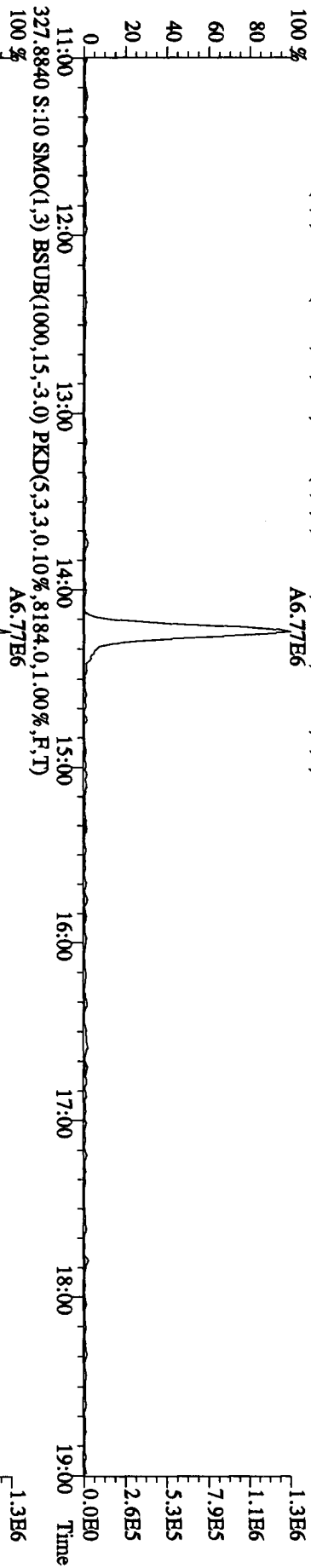
331.9368 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,25604.0,1.00%,F,T)
100% A4.59E6



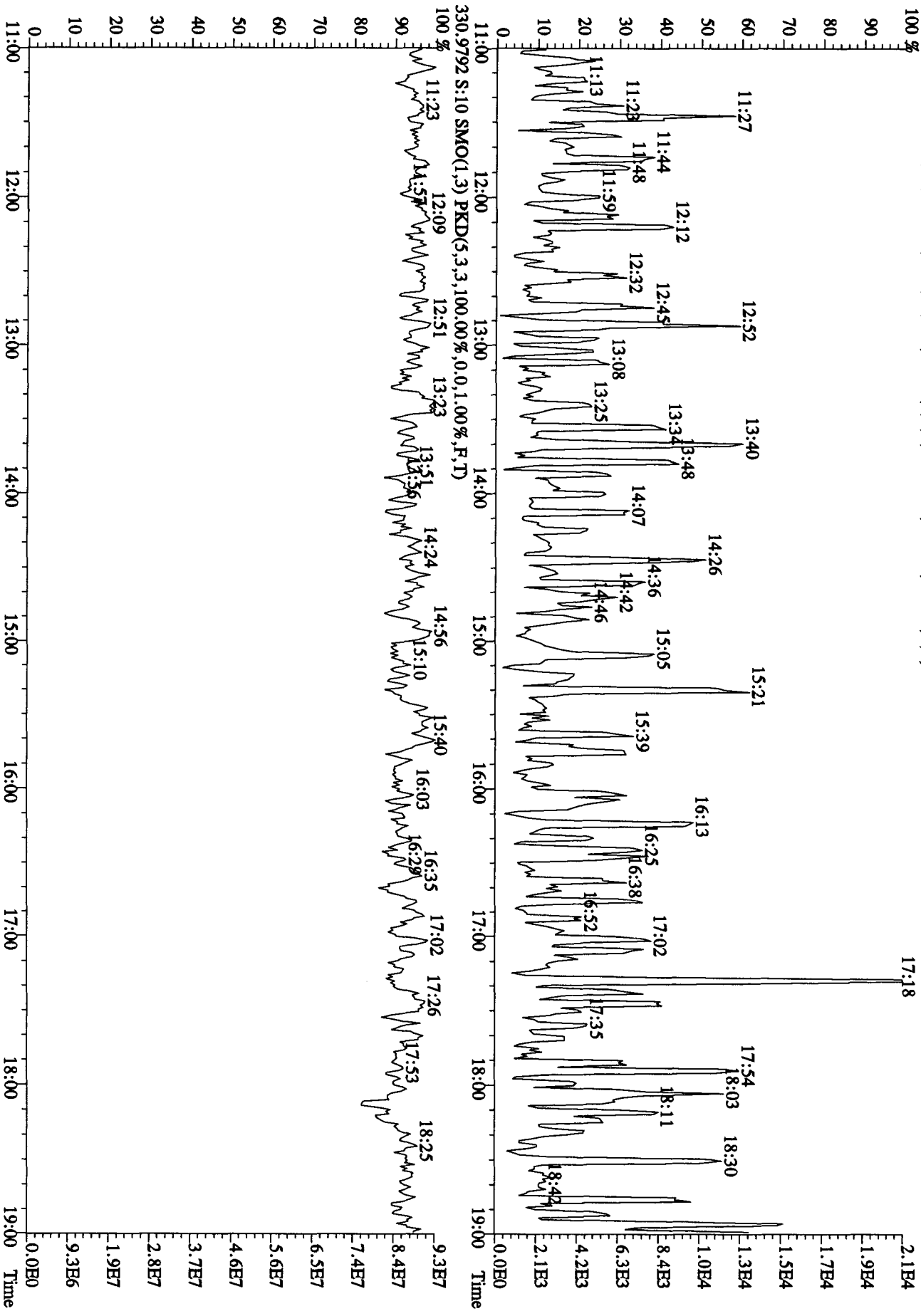
333.9339 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,13948.0,1.00%,F,T)
100% A5.66E6



File:30DBE09BSD2 #1-1242 Acq:30-DEC-2009 20:49:31 GC EI+ Voltage SIR 70SE
Sample#10 Text:LQ224-1-AA :G9L120491-9 Exp:DB225
327.8840 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8184,0.1,00%,F,T)
100% A6.77E6



File:30DBE09B5D2 #1-1242 Acq:30-DEC-2009 20:49:31 GC EI+ Voltage SIR 70SE
 Sample#10 Text:LQ224-1-AA :G9L120491-9 Exp:DB225
 375.8364 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2936.0,1.00%,F,T)



Method ID 8290

Associated ICAL 82901215091D5

Column ID DB-5

Instrument ID 1D5

STD ID ST1217, ST1217A

STD Solution O9DXN384

Analyzed by MG

Date Analyzed 12-17-09

Std. Pkg. By am

Date Std. Pkg. Assembled 12-17-09

Std. Pkg. Reviewed By M.G.

Date Std. Pkg. Reviewed 12/18/09

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 \leq method specified limits?*	✓	✓
Are chromatographic windows correct?	✓	✓
Samples analyzed within 12 hrs of daily standard?	✓	✓
Manual reintegration's checked and hardcopies included?	NA	NA
Ending Standard present?	✓	✓
Ending Static Resolutions present	✓	✓
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS: _____

* Method 8290/TO9/M0023A: (beginning) \leq 20% from curve RRFs for native analytes, \leq 30% from curve RRFs for labeled compounds.

Method 8290/TO9/M0023A: (ending) \leq 25% from curve RRFs for native analytes, \leq 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: ST1217

File text: ST1217 :CS3 09DXN384

Run #6 Filename 17DE091D5 S: 1

I: 1

Acquired: 17-DEC-09 08:47:38

Processed: 17-DEC-09 13:51:47

Run: 17DE091D5 Analyte: 8290

Cal: 82901215091D5

Results: 17DE091D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	354058000	0.81 y	16:38	-	100.00	-	n
13C-2,3,7,8-TCDF	575205000	0.80 y	16:12	1.62	100.00	-1.6	n
2,3,7,8-TCDF	69036500	0.78 y	16:13	1.20	10.00	6.6	n
Total TCDF	69397553	1.26 n	15:51	1.20	10.00	6.6	n
13C-2,3,7,8-TCDD	326697000	0.82 y	16:49	0.92	100.00	-2.2	n
2,3,7,8-TCDD	39136000	0.77 y	16:51	1.20	10.00	1.1	n
Total TCDD	39136000	0.77 y	16:51	1.20	10.00	1.1	n
37Cl-2,3,7,8-TCDD	88040600	1.00 y	16:50	2.49	10.00	-10.4	n
13C-1,2,3,7,8-PeCDF	438921000	1.58 y	20:44	1.24	100.00	4.5	n
1,2,3,7,8-PeCDF	295840000	1.61 y	20:46	1.35	50.00	1.2	n
2,3,4,7,8-PeCDF	281408000	1.60 y	21:57	1.28	50.00	1.2	n
Total F2 PeCDF	580928304	1.33 y	19:32	1.32	100.00	1.2	n
Total F1 PeCDF	148214	0.60 n	14:27	1.32	100.00	1.2	n
13C-1,2,3,7,8-PeCDD	248636400	1.66 y	22:34	0.70	100.00	10.7	n
1,2,3,7,8-PeCDD	162331600	1.63 y	22:36	1.31	50.00	3.9	n
Total PeCDD	162545443	2.96 n	22:13	1.31	50.00	3.9	n
13C-1,2,3,7,8,9-HxCDD	266449000	1.31 y	31:08	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	344232000	0.54 y	28:20	1.29	100.00	1.6	n
1,2,3,4,7,8-HxCDF	233786000	1.26 y	28:21	1.36	50.00	5.9	n
1,2,3,6,7,8-HxCDF	249779000	1.27 y	28:39	1.45	50.00	4.7	n
2,3,4,6,7,8-HxCDF	230659000	1.25 y	30:12	1.34	50.00	2.9	n
1,2,3,7,8,9-HxCDF	221687200	1.26 y	31:25	1.29	50.00	11.2	n
Total HxCDF	936748792	1.26 y	28:21	1.36	200.00	6.0	n
13C-1,2,3,6,7,8-HxCDD	186621800	1.31 y	30:38	0.70	100.00	-3.0	n
1,2,3,4,7,8-HxCDD	132946700	1.36 y	30:30	1.42	50.00	12.8	n
1,2,3,6,7,8-HxCDD	143658300	1.25 y	30:40	1.54	50.00	10.7	n
1,2,3,7,8,9-HxCDD	160092800	1.30 y	31:09	1.72	50.00	17.0	n
Total HxCDD	436697800	1.36 y	30:30	1.56	150.00	13.6	n
13C-1,2,3,4,6,7,8-HpCDF	313141600	0.44 y	33:16	1.18	100.00	12.0	n
1,2,3,4,6,7,8-HpCDF	260378000	1.05 y	33:16	1.66	50.00	7.4	n
1,2,3,4,7,8,9-HpCDF	233428000	1.07 y	34:28	1.49	50.00	14.1	n
Total HpCDF	495207553	1.05 y	33:16	1.58	100.00	10.4	n
13C-1,2,3,4,6,7,8-HpCDD	241669000	1.08 y	34:08	0.91	100.00	19.6	n
1,2,3,4,6,7,8-HpCDD	160759100	1.08 y	34:09	1.33	50.00	4.2	n
Total HpCDD	161166806	0.80 n	33:33	1.33	50.00	4.2	n
13C-OCDD	458119000	0.91 y	36:44	0.86	200.00	20.0	n
OCDF	384768000	0.92 y	36:50	1.68	100.00	6.5	n
OCDD	269371000	0.89 y	36:45	1.18	100.00	4.4	n

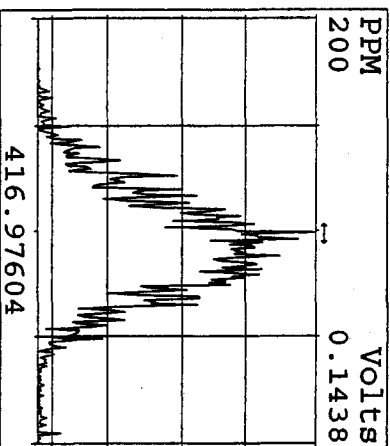
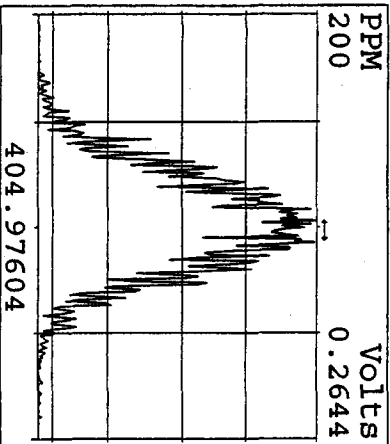
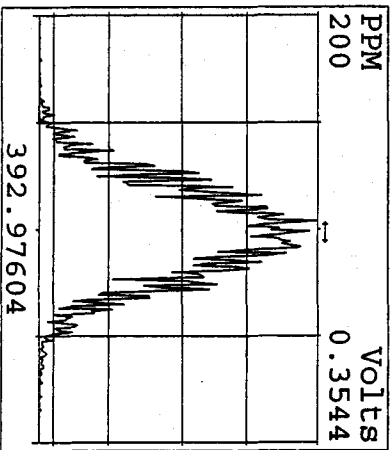
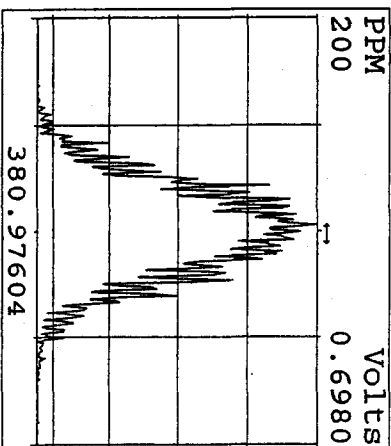
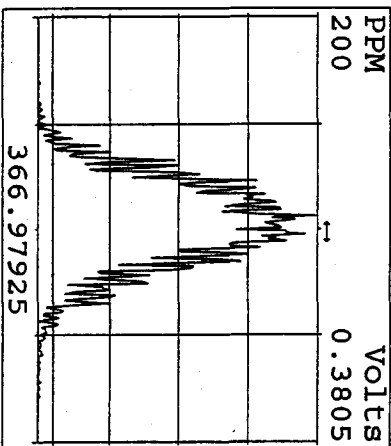
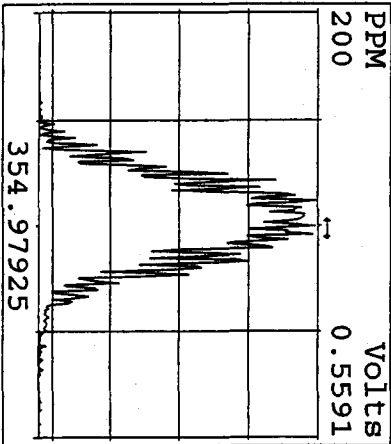
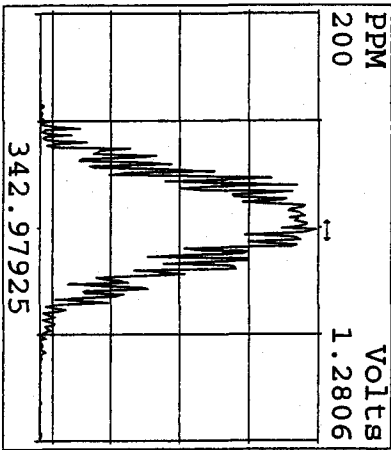
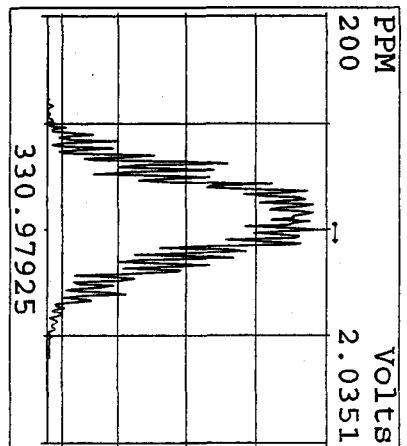
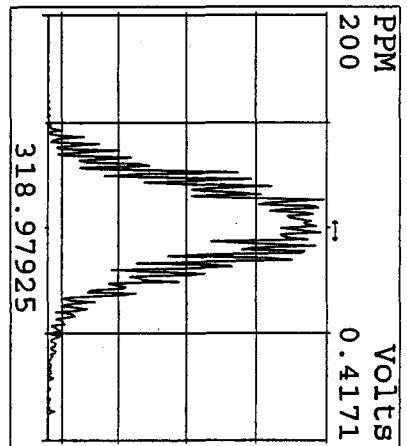
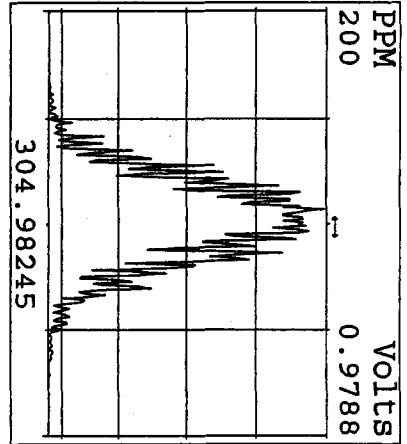
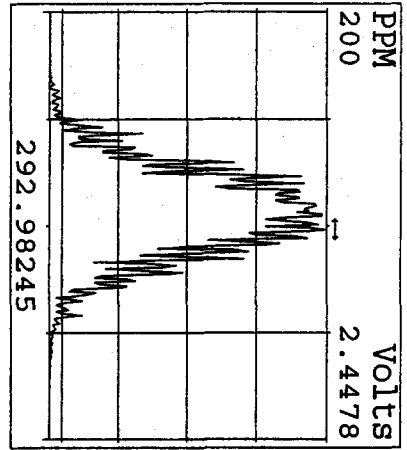
Run text: ST1217A File text: ST1217A :CS3 09DXN384
 Run #18 Filename 17DE091D5 S: 16 I: 1
 Acquired: 17-DEC-09 19:15:13 Processed: 17-DEC-09 19:54:56
 Run: 17DE091D5 Analyte: 8290 Cal: 82901215091D5 Results: 17DE091D58290

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	263535000	0.81 y	16:37	-	100.00	-	n
13C-2,3,7,8-TCDF	406837000	0.80 y	16:11	1.54	100.00	-6.5	n
2,3,7,8-TCDF	49074500	0.78 y	16:12	1.21	10.00	7.2	n
Total TCDF	50172036	0.67 y	14:40	1.21	10.00	7.2	n
13C-2,3,7,8-TCDD	241354000	0.82 y	16:50	0.92	100.00	-3.0	n
2,3,7,8-TCDD	26677400	0.80 y	16:51	1.11	10.00	-6.7	n
Total TCDD	26677400	0.80 y	16:51	1.11	10.00	-6.7	n
37Cl-2,3,7,8-TCDD	61974800	1.00 y	16:51	2.35	10.00	-15.2	n
13C-1,2,3,7,8-PeCDF	284754000	1.62 y	20:46	1.08	100.00	-8.9	n
1,2,3,7,8-PeCDF	195787900	1.62 y	20:47	1.38	50.00	3.2	n
2,3,4,7,8-PeCDF	178968300	1.64 y	21:59	1.26	50.00	-0.7	n
Total F2 PeCDF	377311619	1.35 y	19:33	1.32	100.00	1.3	n
Total F1 PeCDF	*	* n	NotFnd	1.32	100.00	1.3	n
13C-1,2,3,7,8-PeCDD	155323000	1.66 y	22:37	0.59	100.00	-7.1	n
1,2,3,7,8-PeCDD	100047300	1.66 y	22:39	1.29	50.00	2.5	n
Total PeCDD	100253163	1.66 y	22:39	1.29	50.00	2.5	n
13C-1,2,3,7,8,9-HxCDD	148764400	1.30 y	31:12	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	193989100	0.52 y	28:25	1.30	100.00	2.6	n
1,2,3,4,7,8-HxCDF	130135200	1.29 y	28:27	1.34	50.00	4.6	n
1,2,3,6,7,8-HxCDF	144636600	1.28 y	28:45	1.49	50.00	7.6	n
2,3,4,6,7,8-HxCDF	133502300	1.28 y	30:16	1.38	50.00	5.7	n
1,2,3,7,8,9-HxCDF	117207400	1.29 y	31:28	1.21	50.00	4.3	n
Total HxCDF	525481500	1.29 y	28:27	1.35	200.00	5.6	n
13C-1,2,3,6,7,8-HxCDD	116749400	1.30 y	30:42	0.78	100.00	8.6	n
1,2,3,4,7,8-HxCDD	72814200	1.30 y	30:34	1.25	50.00	-1.2	n
1,2,3,6,7,8-HxCDD	89663800	1.27 y	30:44	1.54	50.00	10.4	n
1,2,3,7,8,9-HxCDD	90562500	1.31 y	31:12	1.55	50.00	5.8	n
Total HxCDD	254169627	1.30 y	30:34	1.44	150.00	5.2	n
13C-1,2,3,4,6,7,8-HpCDF	165791600	0.45 y	33:18	1.11	100.00	6.2	n
1,2,3,4,6,7,8-HpCDF	136936100	1.08 y	33:19	1.65	50.00	6.7	n
1,2,3,4,7,8,9-HpCDF	107679400	1.07 y	34:31	1.30	50.00	-0.6	n
Total HpCDF	245595094	1.08 y	33:19	1.48	100.00	3.3	n
13C-1,2,3,4,6,7,8-HpCDD	126664900	0.98 y	34:11	0.85	100.00	12.3	n
1,2,3,4,6,7,8-HpCDD	79459200	1.10 y	34:11	1.25	50.00	-1.8	n
Total HpCDD	79459200	1.10 y	34:11	1.25	50.00	-1.8	n
13C-OCDD	203826700	0.87 y	36:47	0.69	200.00	-4.4	n
OCDF	165694700	0.92 y	36:53	1.63	100.00	3.1	n
OCDD	115199900	0.89 y	36:48	1.13	100.00	0.4	n

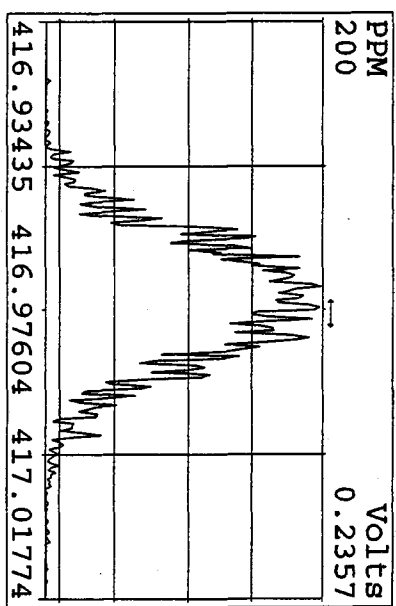
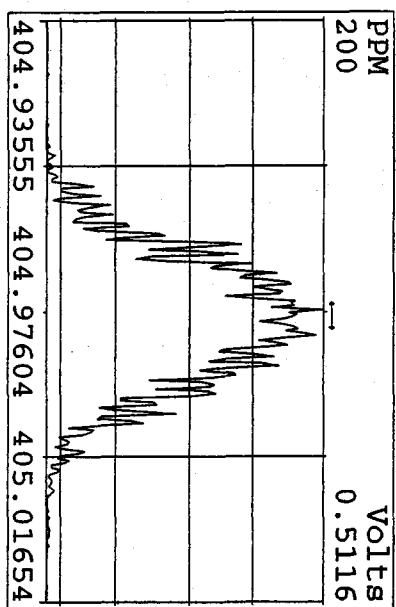
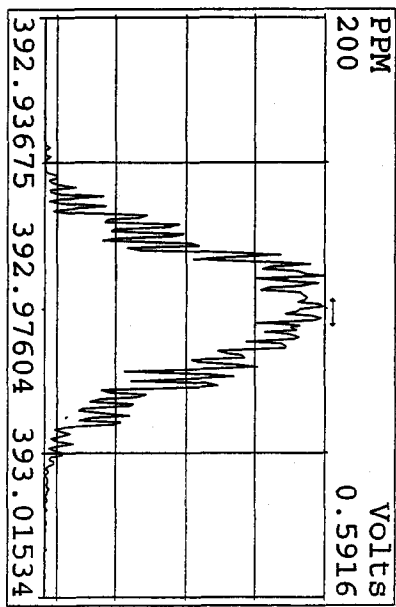
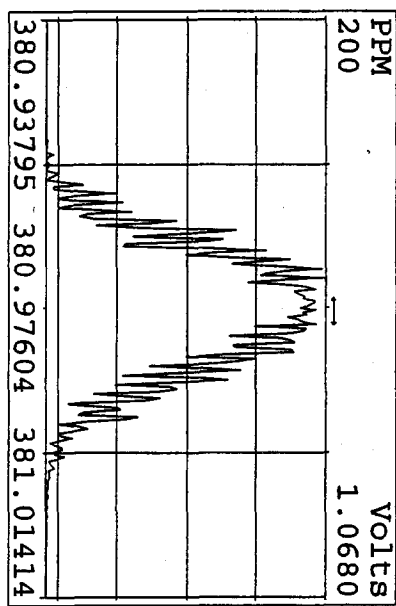
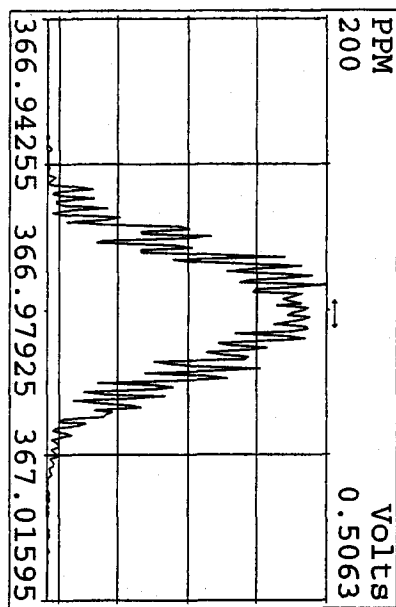
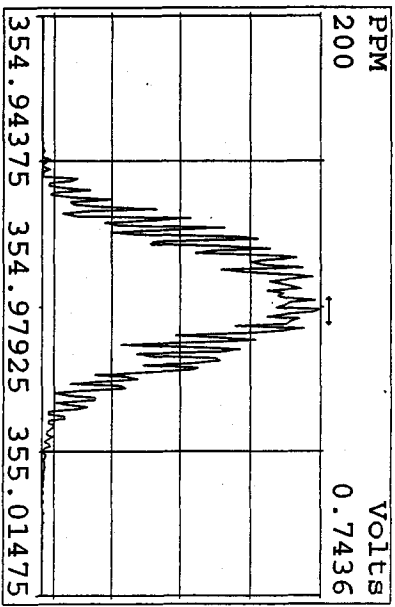
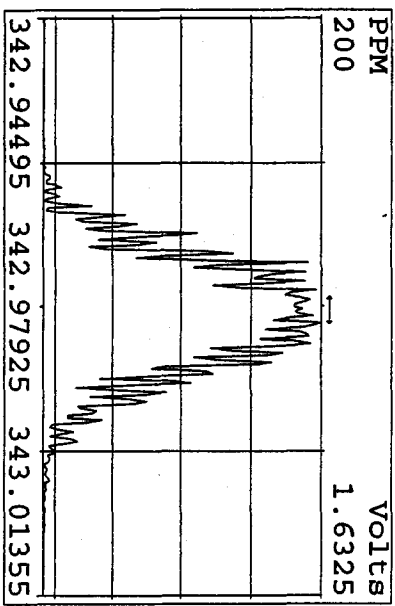
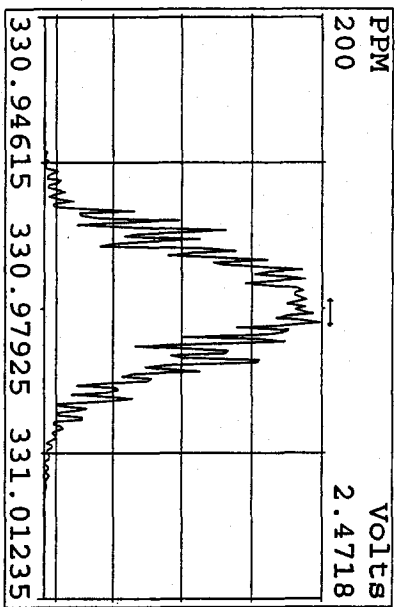
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
17DE091D5	1	ST1217	CS3 09DXN384				1.000	
17DE091D5	2	CP1217	DB-5 CPSM 3732-04				1.000	
17DE091D5	3	SB1217	Solvent Blank C-14				1.000	
17DE091D5	4	LQ3ME-1-AA	G9L140000-326B	20	8290/WATER	64	1.000	L
17DE091D5	5	LQ3ME-1-AC	G9L140000-326C	20	8290/WATER		1.000	L
17DE091D5	6	LQWFH-1-AA	G9L100559-16	10	8290/WATER		1.049	L
17DE091D5	7	LQ025-1-AA	G9L110588-24	10	8290/WATER		1.049	L
17DE091D5	8	LQ224-1-AA	G9L120491-9	10	8290/WATER		1.052	L
17DE091D5	9	LQWFF-1-AC	G9L100559-3 (20x)	10	8290/SOLID		10.620	g
17DE091D5	10	LQWFC-1-AC	G9L100559-14 (20x)	10	8290/SOLID		10.170	g
17DE091D5	11	LQWFF-1-AC	G9L100559-15	10	8290/SOLID		10.840	g
17DE091D5	12	LQWFF-1-AD	G9L100559-15S	10	8290/SOLID		10.240	g
17DE091D5	13	LQWFF-1-AE	G9L100559-15D	10	8290/SOLID		10.260	g
17DE091D5	14	SB1217A	Solvent Blank C-14				1.000	
17DE091D5	15	SB1217B	Solvent Blank C-14				1.000	
17DE091D5	16	ST1217A	CS3 09DXN384				1.000	
17DE091D5	17						1.000	
17DE091D5	18						1.000	
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17DE091D5	20		MG 12/17/09				1.000	

log file checked
12-17-09 am

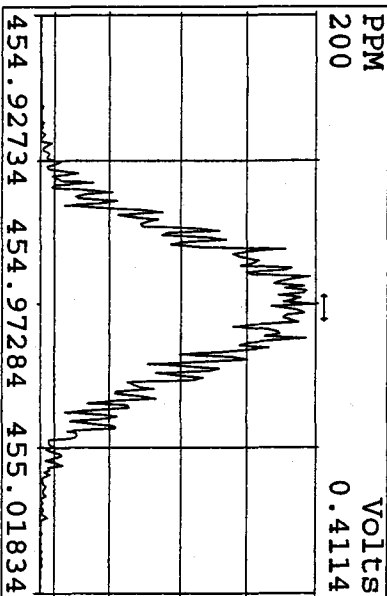
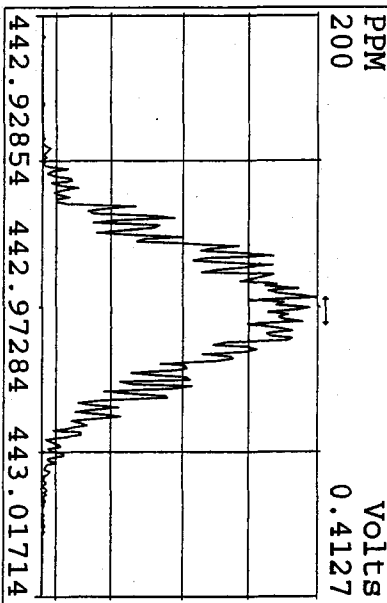
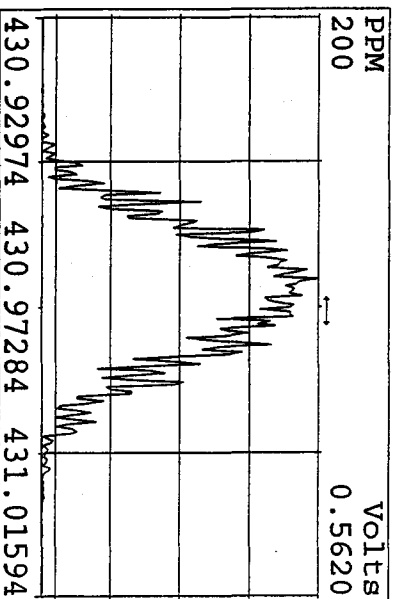
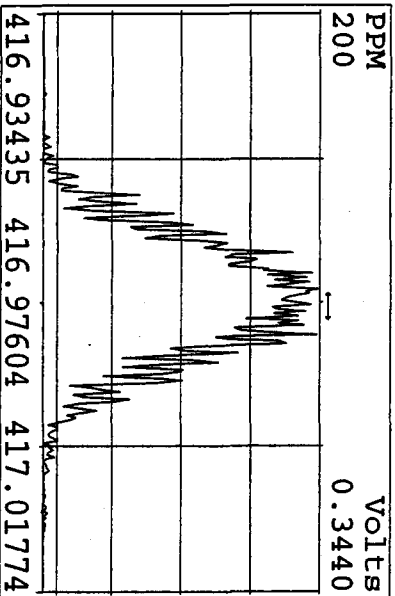
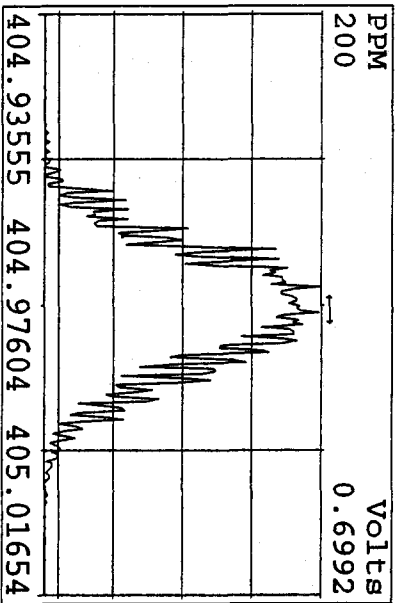
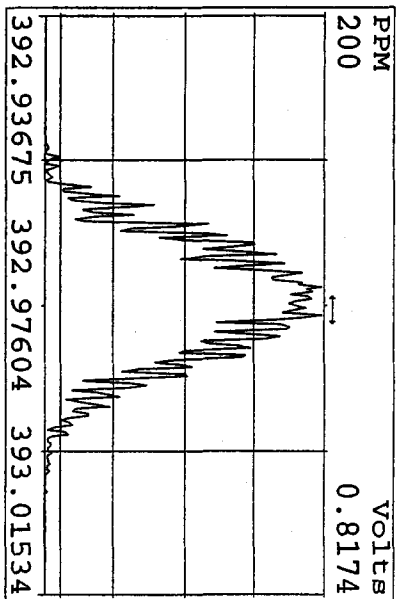
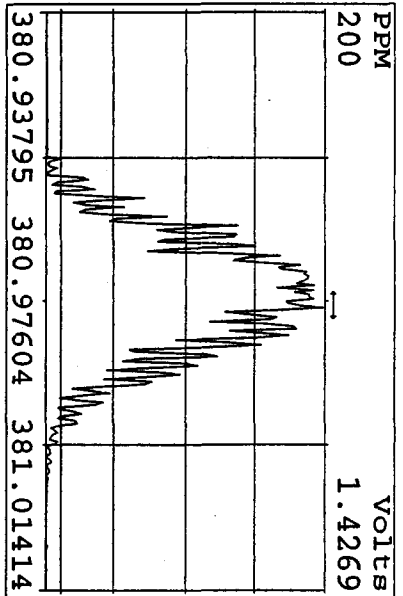
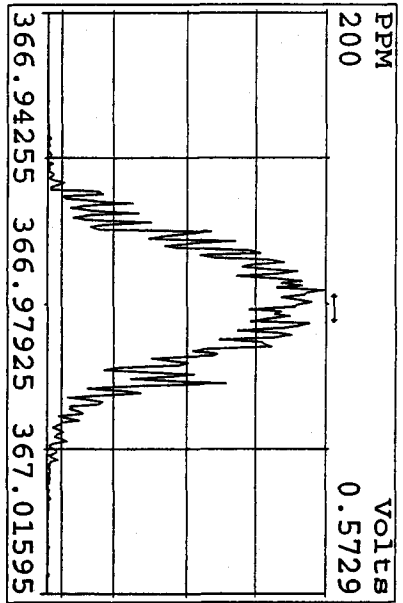
Peak Locate Examination:17-DEC-2009:08:41 File:17DFE091D5
Experiment:DIOXIN Function:1 Reference:PFK



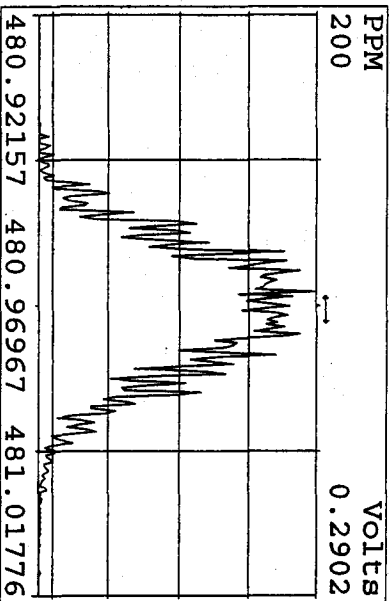
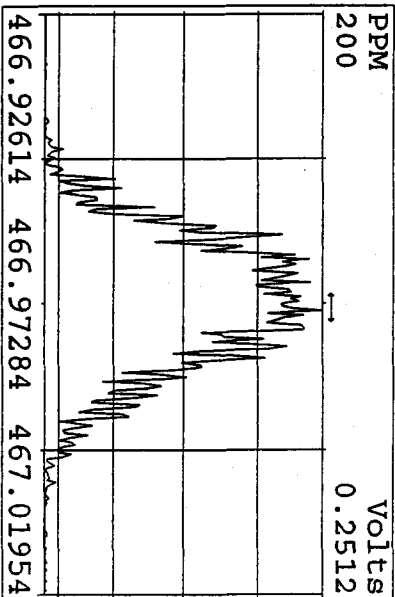
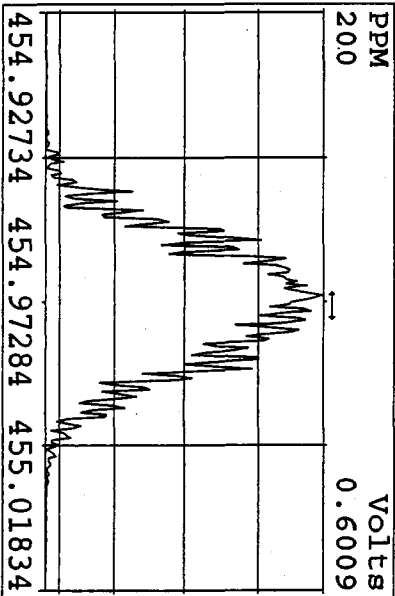
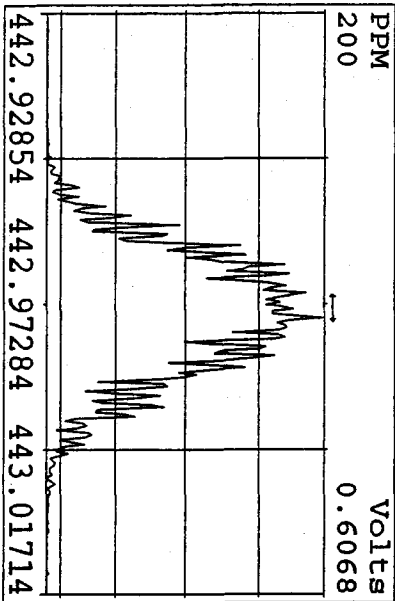
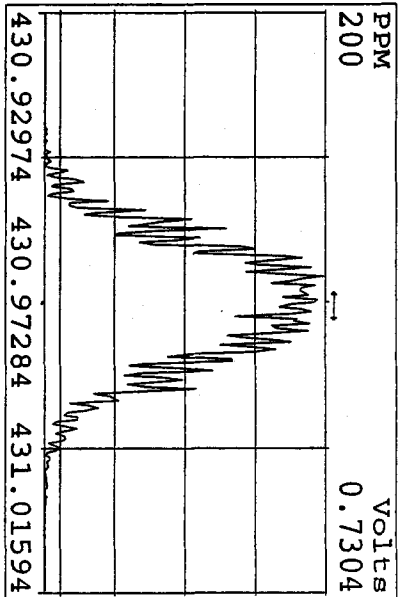
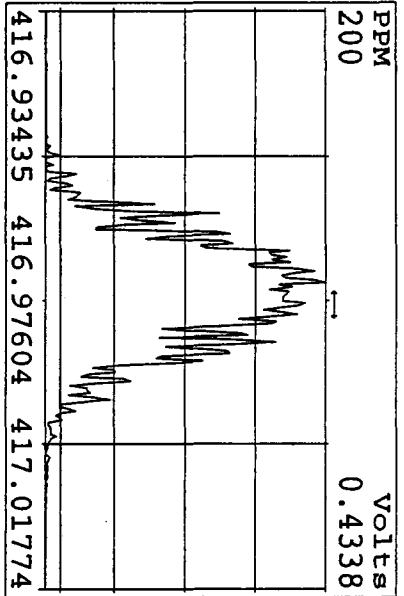
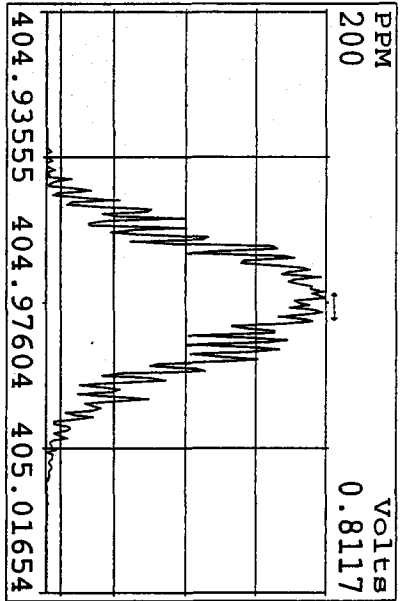
Peak Locate Examination: 17-DEC-2009:08:44 File: 17DE091D5
Experiment: DIOXIN Function: 2 Reference: PFK



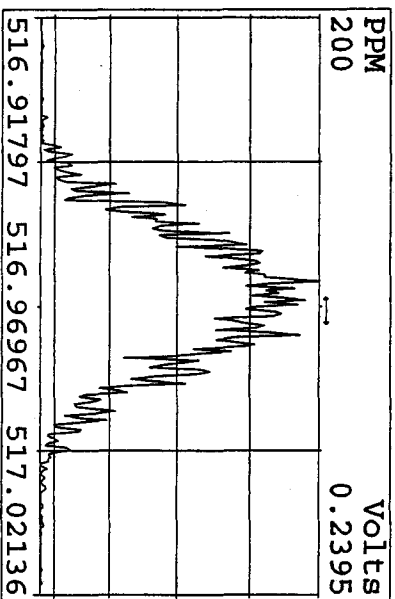
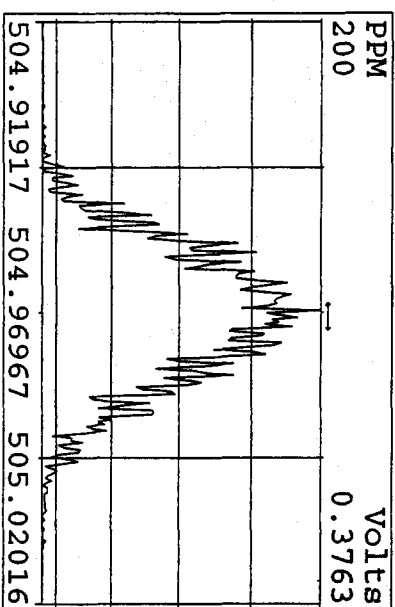
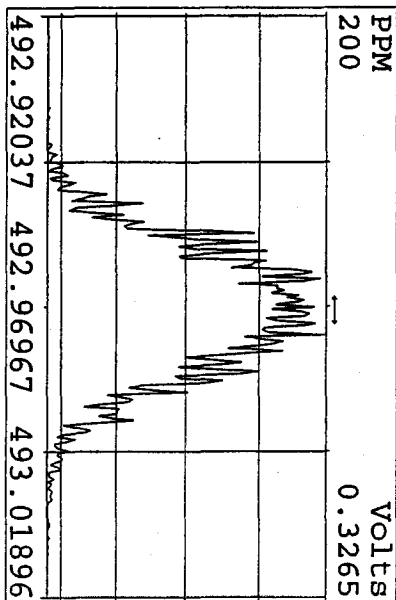
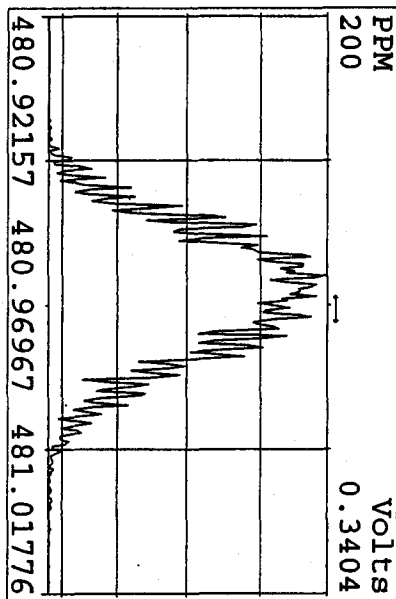
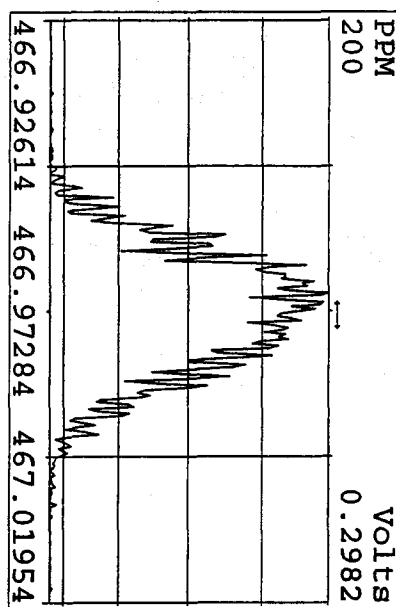
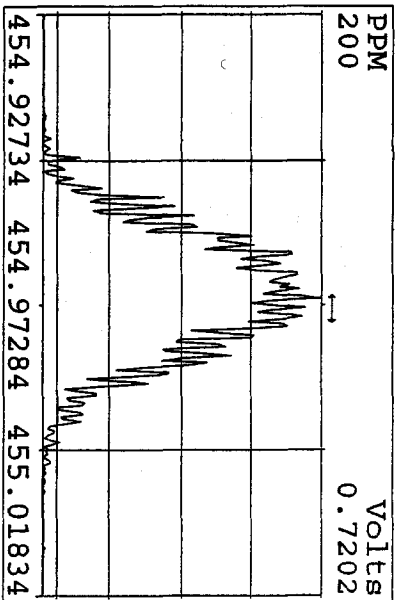
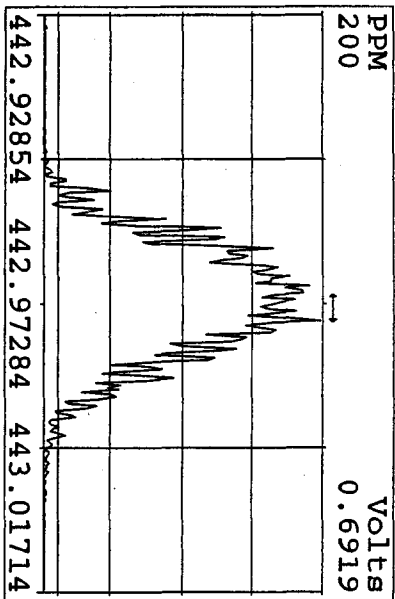
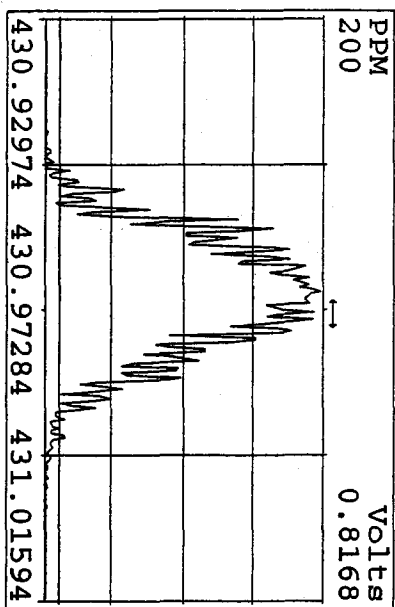
Peak Locate Examination: 17-DEC-2009:08:45 File:17DE091D5
 Experiment:DIOXIN Function:3 Reference:PFK



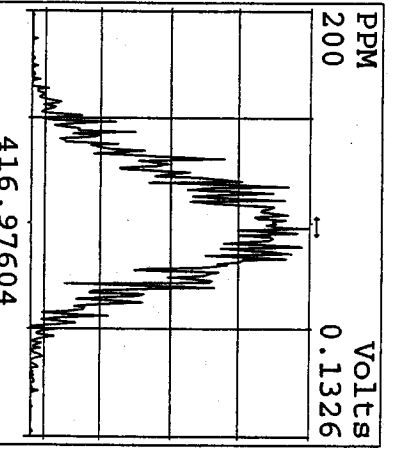
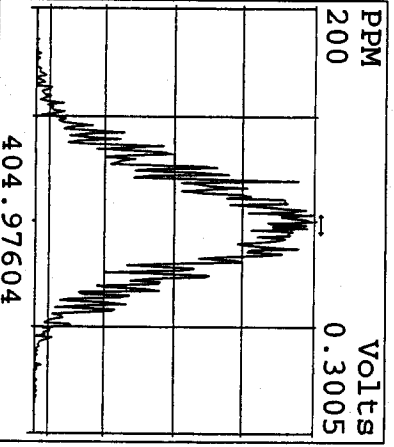
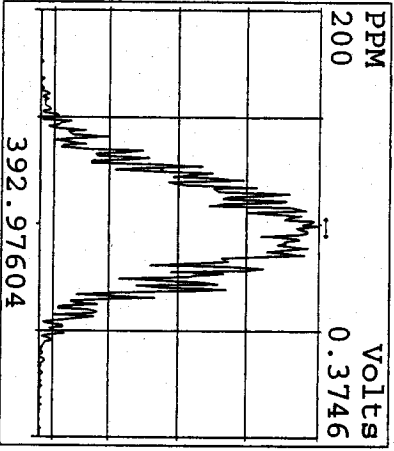
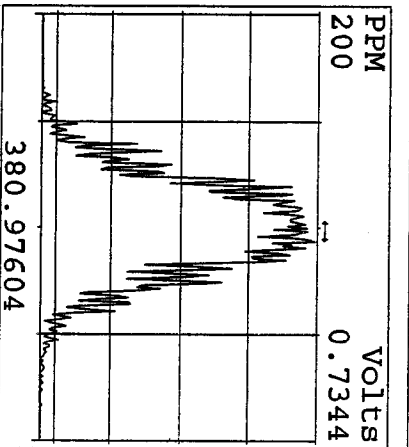
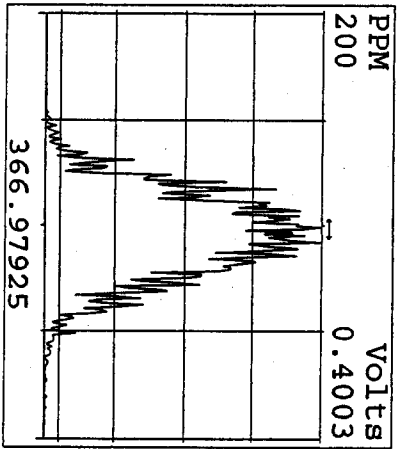
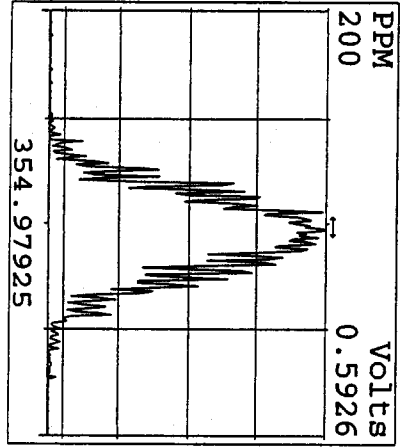
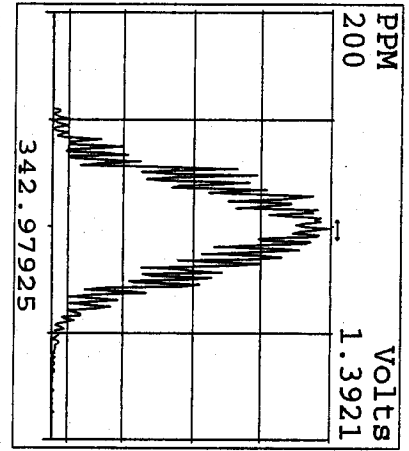
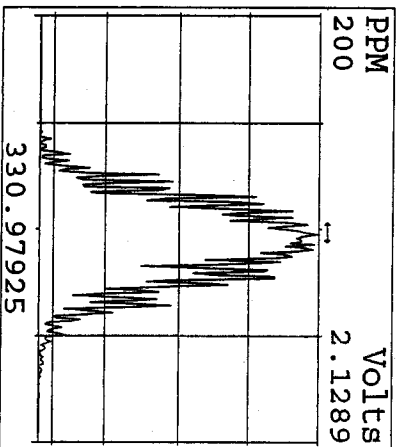
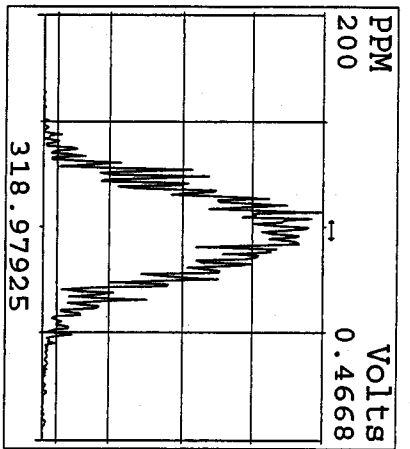
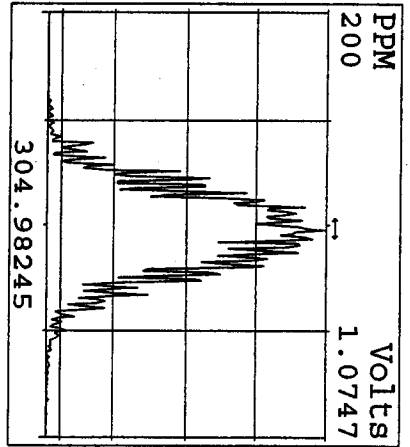
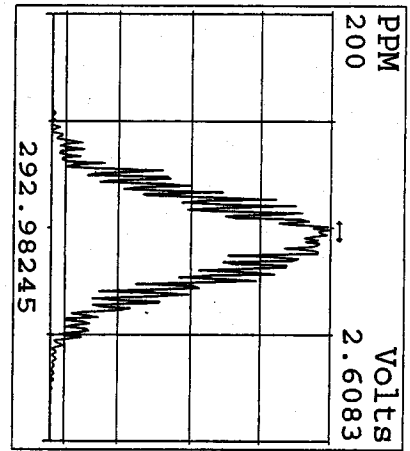
Peak Locate Examination: 17-DEC-2009:08:45 File: 17DE091D5
 Experiment: DIOXIN Function: 4 Reference: PRK



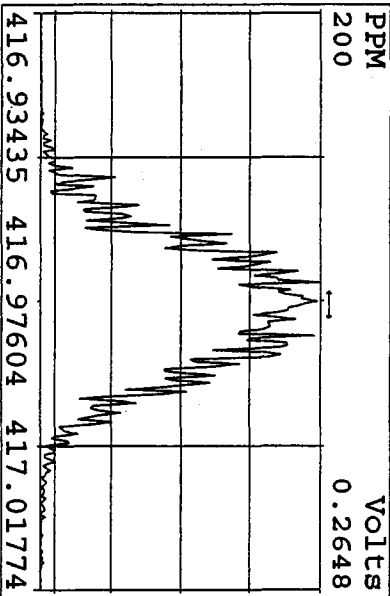
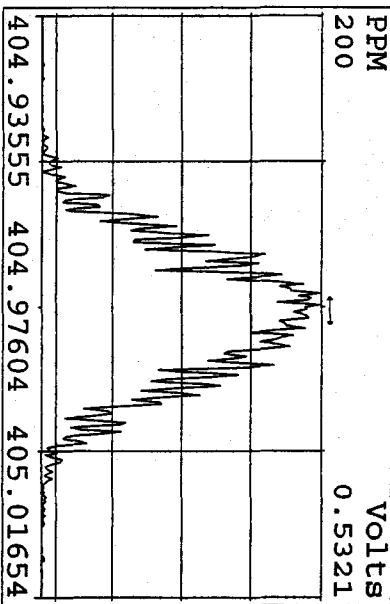
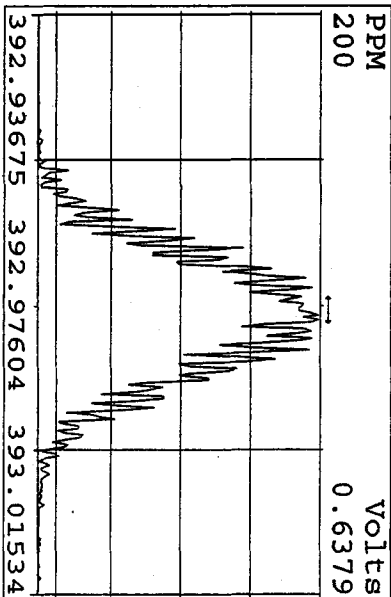
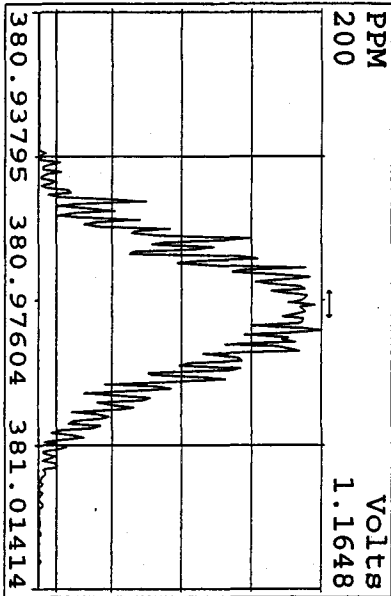
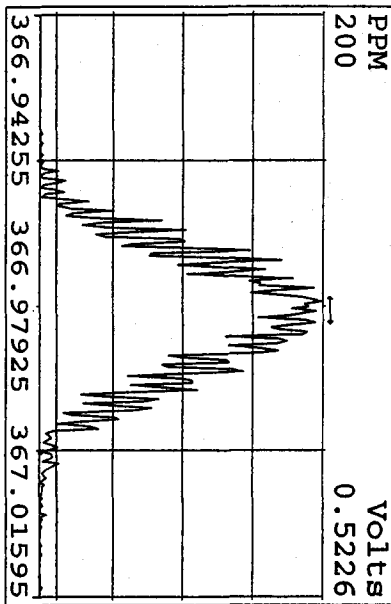
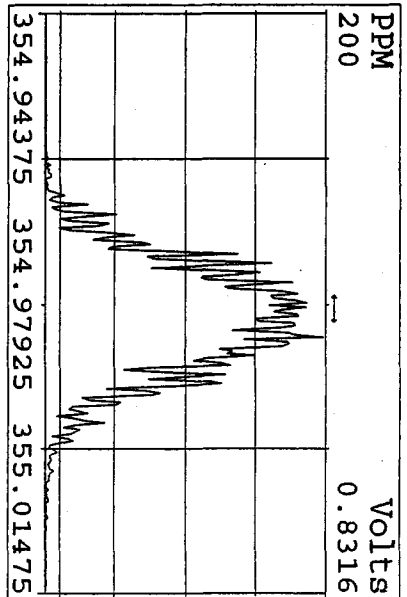
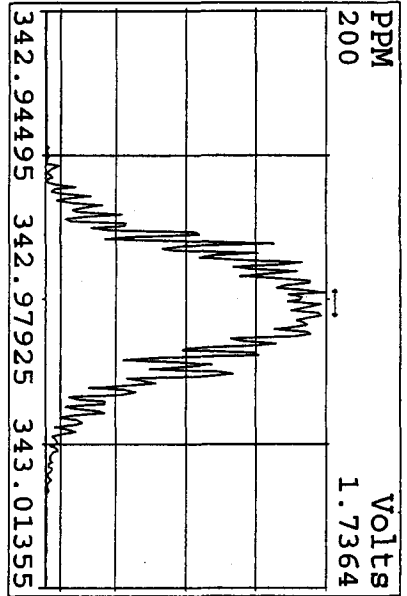
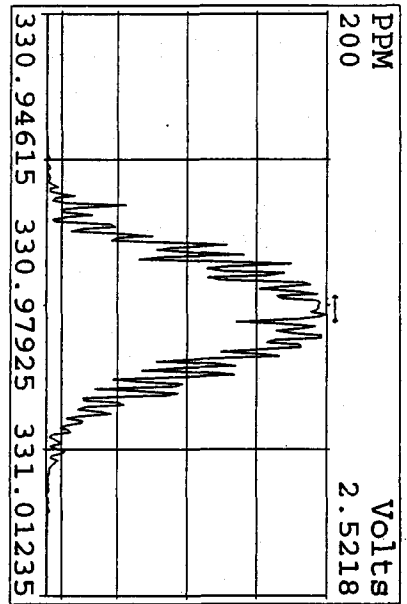
Peak Locate Examination:17-DEC-2009:08:46 File:17DE091DS
 Experiment:DIOXIN Function:5 Reference:PFK



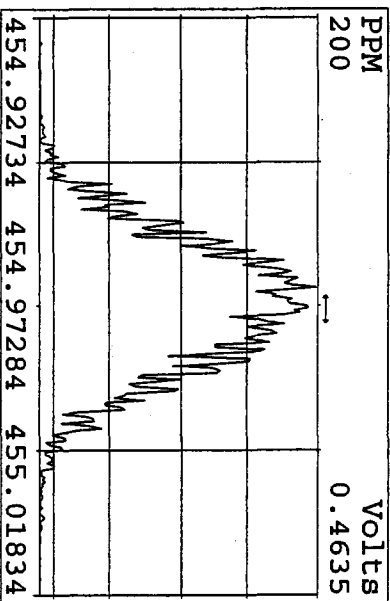
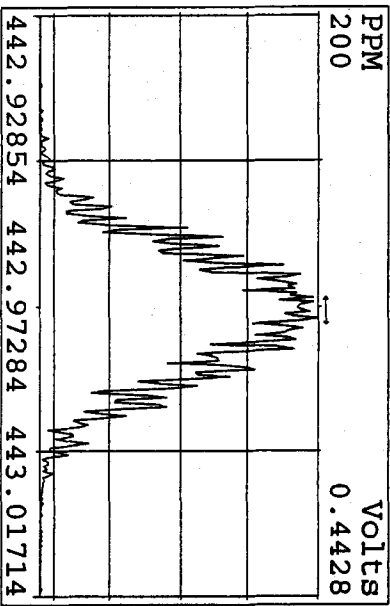
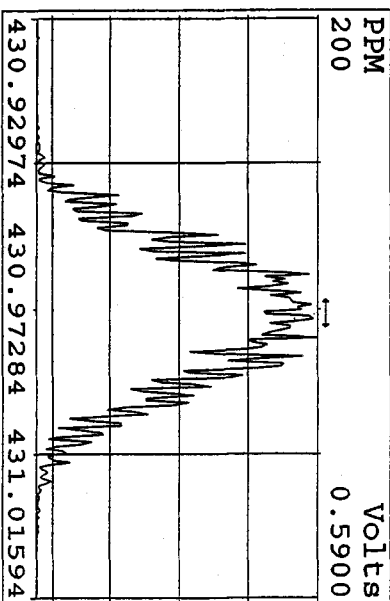
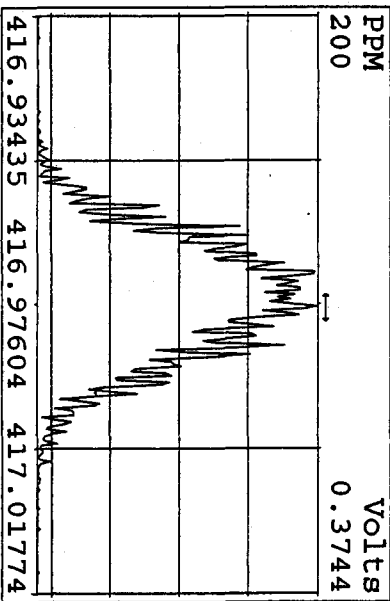
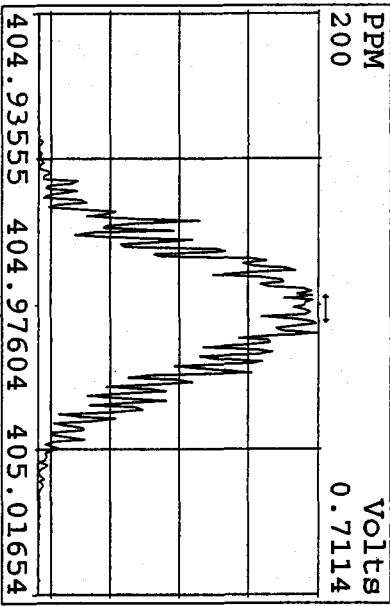
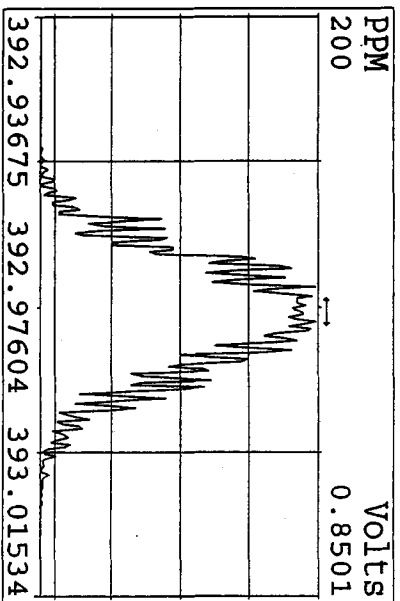
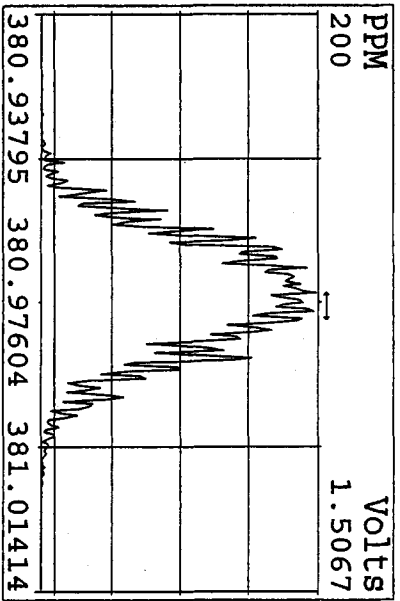
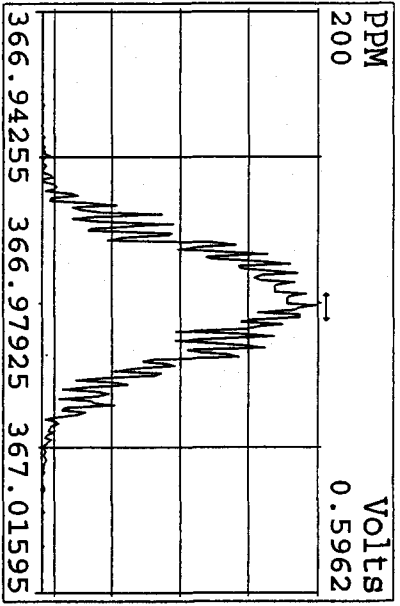
Peak Locate Examination:17-DEC-2009:20:04 File:RSCCHK17DE091D5
Experiment:DIOXIN Function:1 Reference:PFK



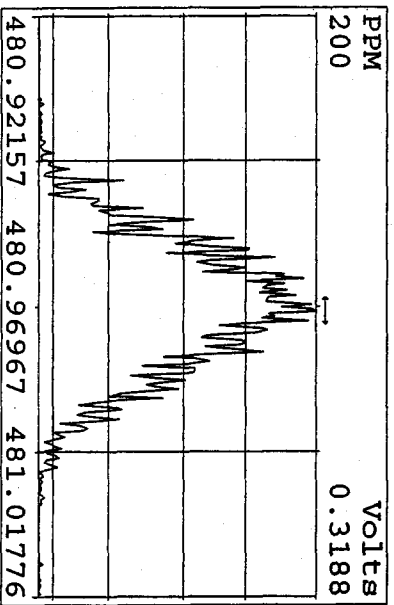
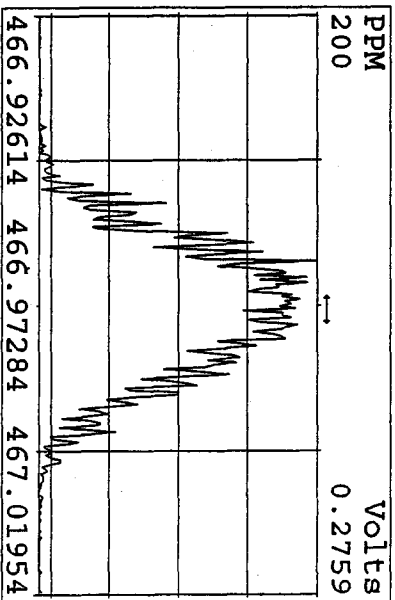
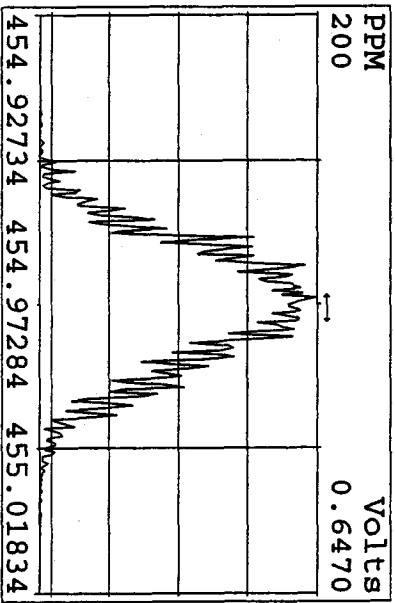
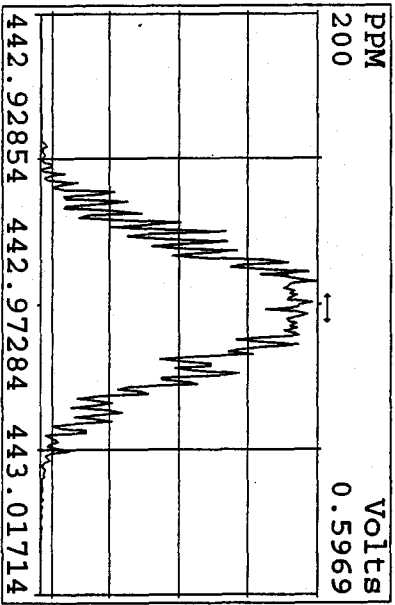
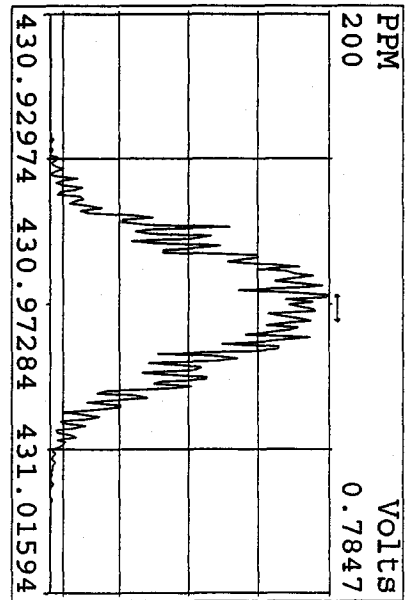
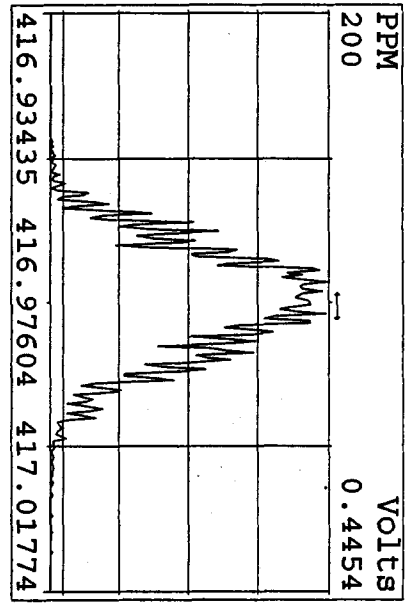
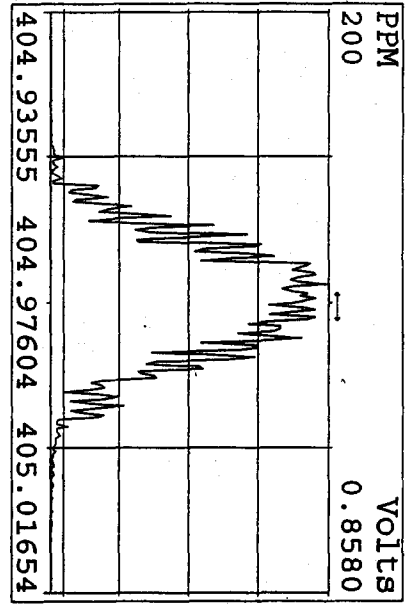
Peak Locate Examination: 17-DEC-2009:20:05 File: RESCHK17DE091DS
 Experiment: DIOXIN Function: 2 Reference: PFK



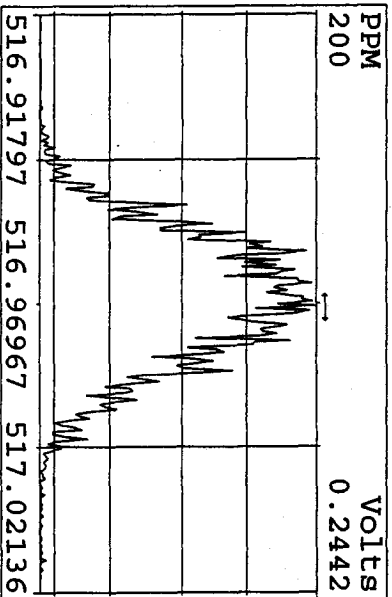
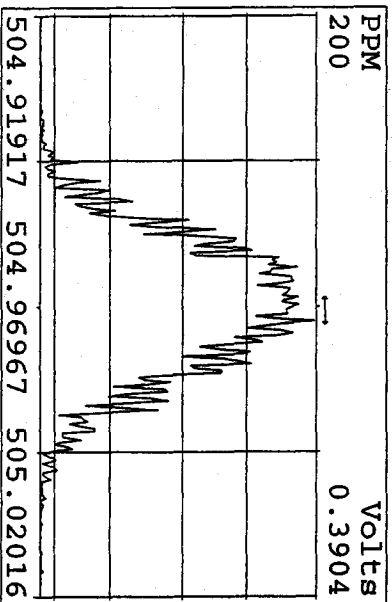
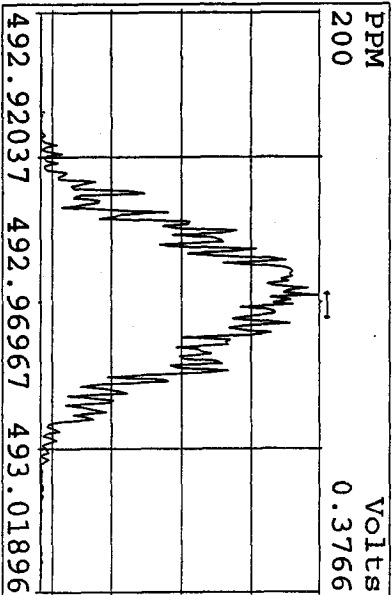
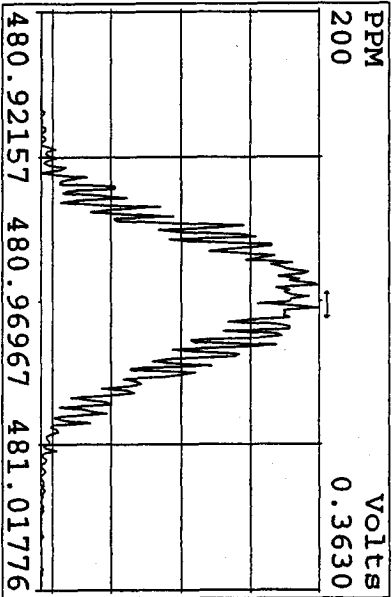
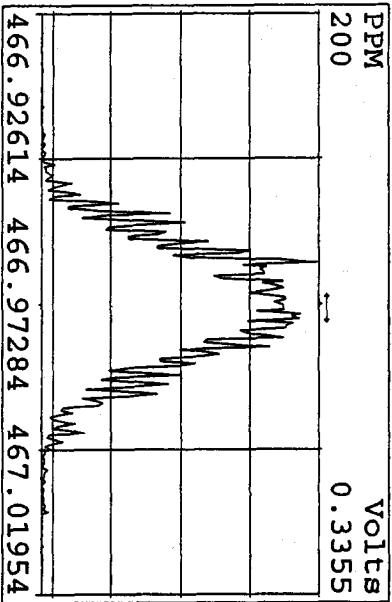
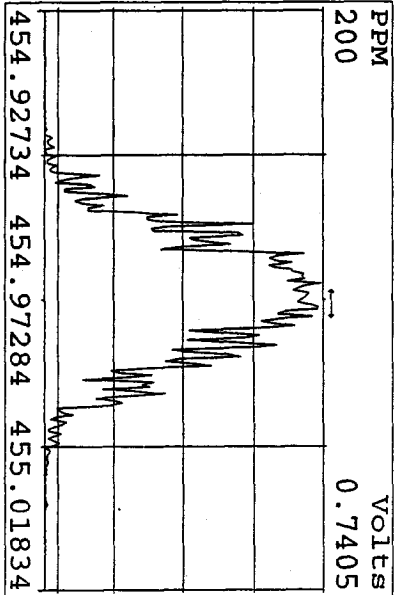
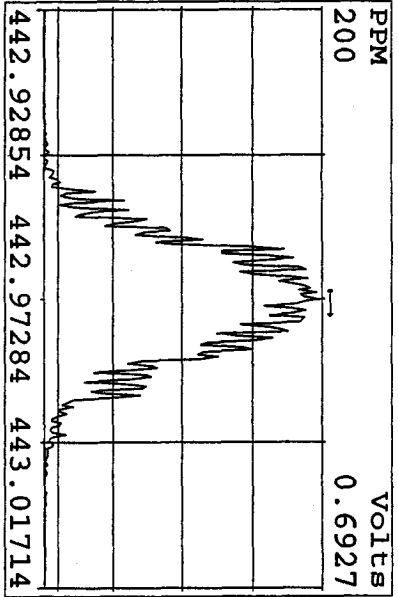
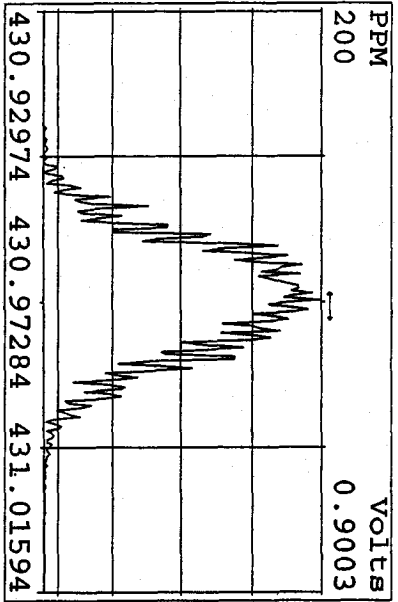
Peak Locate Examination: 17-DEC-2009:20:06 File: RESCHK17DE091D5
 Experiment: DIOXIN Function: 3 Reference: PFK



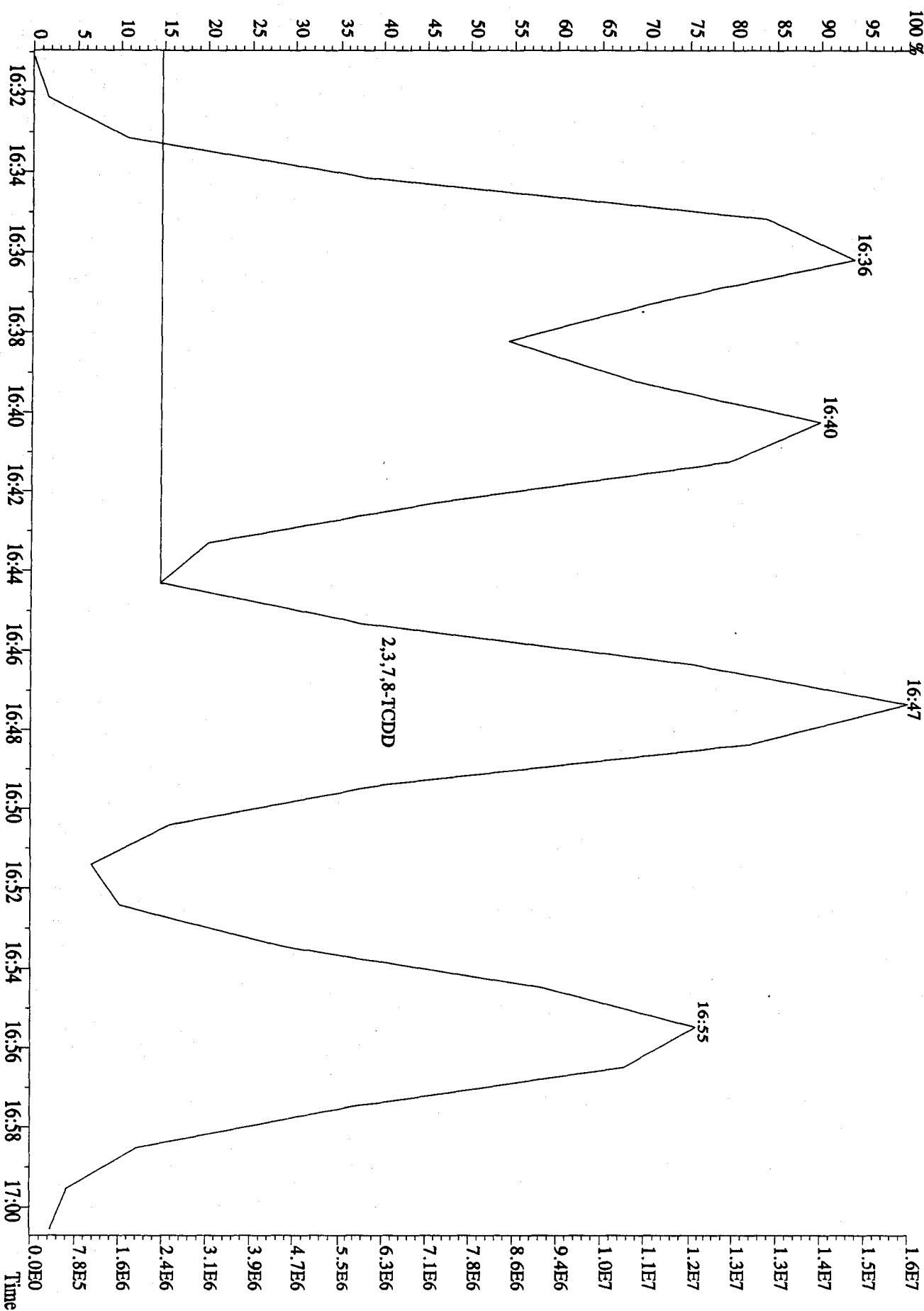
Peak Locate Examination: 17-DEC-2009: 20:07 File: RESCHK17DE091DS
 Experiment: DIOXIN Function: 4 Reference: PFK



Peak Locate Examination: 17-DEC-2009:20:08 File: RESCHK17DE091D5
 Experiment: DIOXIN Function: 5 Reference: PFK



File:17DEC09ID5 #1-349 Acq:17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1217 :DB-5 CP5M 3732-04 Exp:DIOXIN
 321.8936 S:2 BSUB(128,15,-3.0)



2,3,7,8-TCDD

Run: 15DE09A1D5 Analyte: 8290 Cal: 82901215091D5

ST1215J :CS1 09DXN236 ST1215I :CS2 09DXN237 ST1215H :CS3 09DXN384
 ST1215F :CS4 09DXN311 ST1215K :CS5 09DXN412

Name	Mean	S. D.	%RSD	15DE091D5				
				S12	S11	S10	S8	S13
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.652	0.065	3.91 %	1.59	1.64	1.72	1.72	1.59
2,3,7,8-TCDF	1.125	0.124	11.0 %	0.98	1.00	1.20	1.24	1.21
Total TCDF	1.125	0.124	11.0 %	0.98	1.00	1.20	1.24	1.21
13C-2,3,7,8-TCDD	0.944	0.035	3.72 %	0.89	0.96	0.97	0.98	0.92
2,3,7,8-TCDD	1.185	0.109	9.18 %	1.07	1.08	1.20	1.29	1.29
Total TCDD	1.185	0.109	9.18 %	1.07	1.08	1.20	1.29	1.29
37Cl-2,3,7,8-TCDD	2.774	0.760	27.4 %	2.08	2.28	2.52	3.00	3.98

13C-1,2,3,7,8-PeCDF	1.186	0.039	3.32 %	1.16	1.17	1.23	1.23	1.15
1,2,3,7,8-PeCDF	1.332	0.138	10.3 %	1.13	1.24	1.44	1.44	1.41
2,3,4,7,8-PeCDF	1.266	0.137	10.8 %	1.07	1.19	1.40	1.36	1.31
Total F2 PeCDF	1.299	0.137	10.5 %	1.10	1.22	1.42	1.40	1.36
Total F1 PeCDF	1.299	0.137	10.5 %	1.10	1.22	1.42	1.40	1.36

13C-1,2,3,7,8-PeCDD	0.635	0.039	6.14 %	0.62	0.61	0.67	0.68	0.59
1,2,3,7,8-PeCDD	1.257	0.139	11.0 %	1.08	1.13	1.33	1.36	1.38
Total PeCDD	1.257	0.139	11.0 %	1.08	1.13	1.33	1.36	1.38

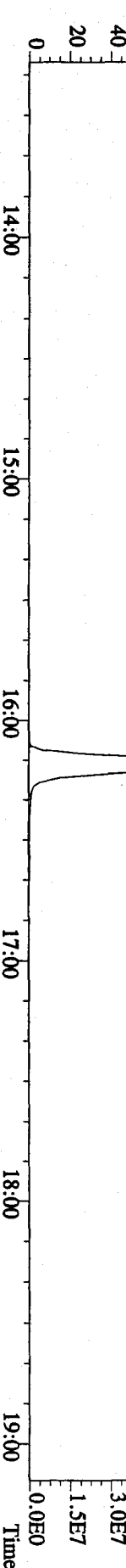
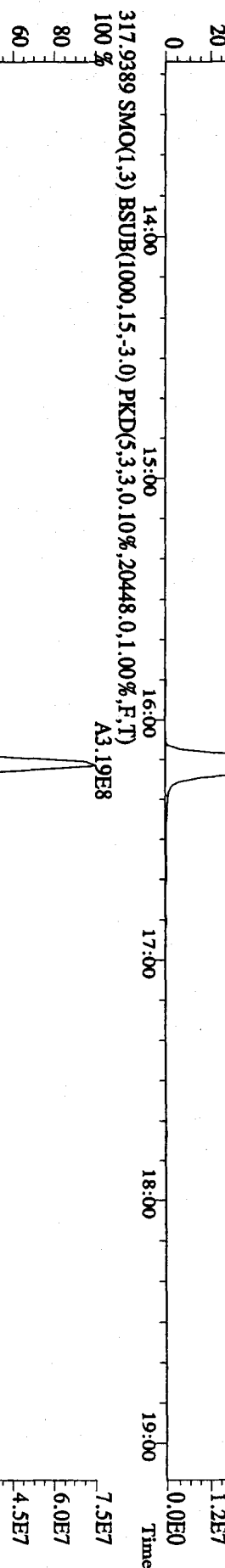
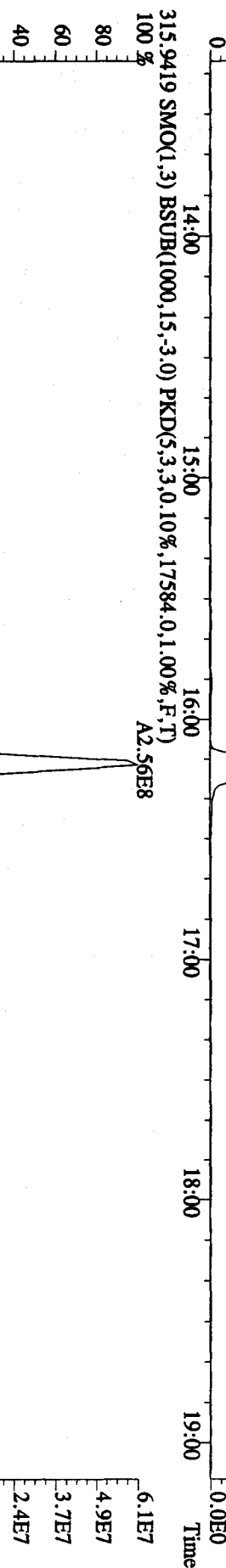
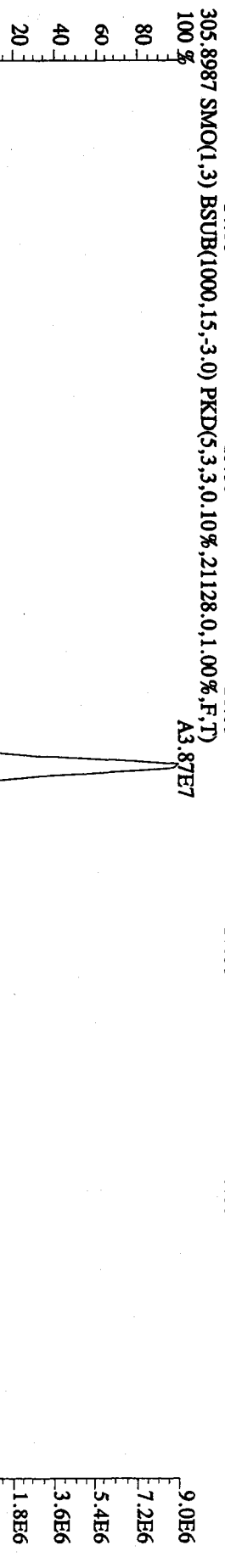
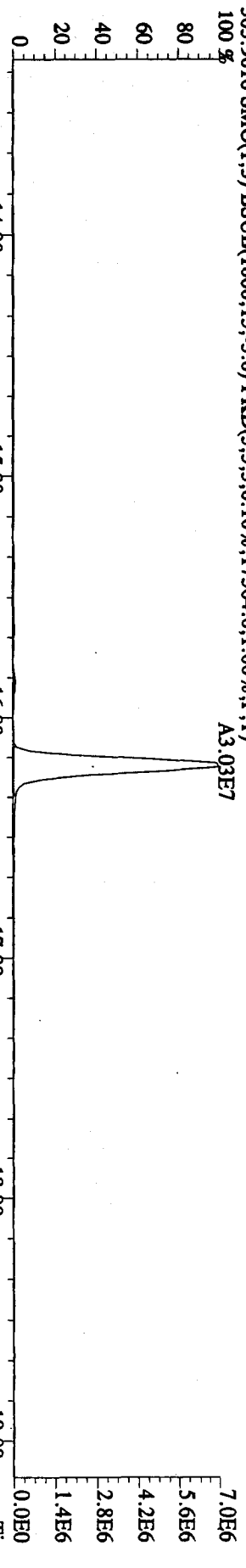
13C-1,2,3,7,8-HxCDD - - %

13C-1,2,3,4,7,8-HxCDF	1.271	0.023	1.80 %	1.30	1.25	1.25	1.29	1.27
1,2,3,4,7,8-HxCDF	1.282	0.161	12.6 %	1.05	1.18	1.36	1.43	1.40
1,2,3,6,7,8-HxCDF	1.386	0.181	13.1 %	1.11	1.30	1.45	1.55	1.52
2,3,4,6,7,8-HxCDF	1.303	0.165	12.7 %	1.06	1.20	1.41	1.42	1.42
1,2,3,7,8,9-HxCDF	1.159	0.156	13.5 %	0.93	1.07	1.26	1.31	1.22
Total HxCDF	1.282	0.165	12.9 %	1.04	1.19	1.37	1.43	1.39

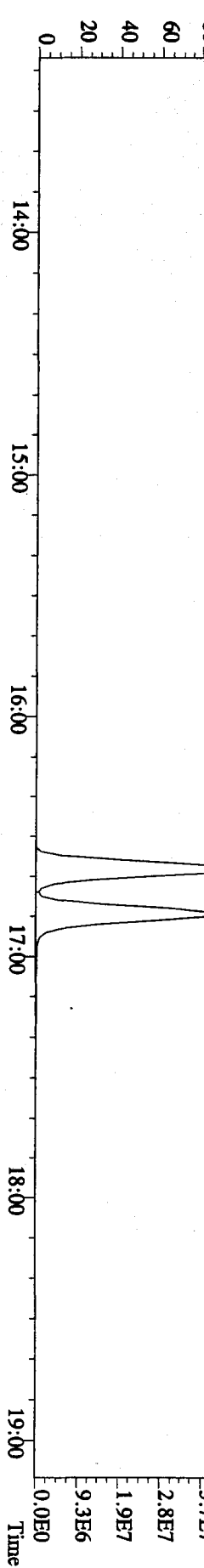
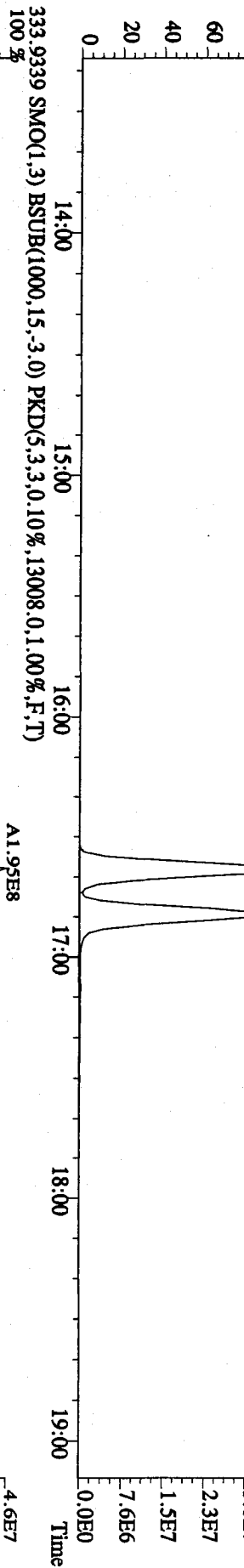
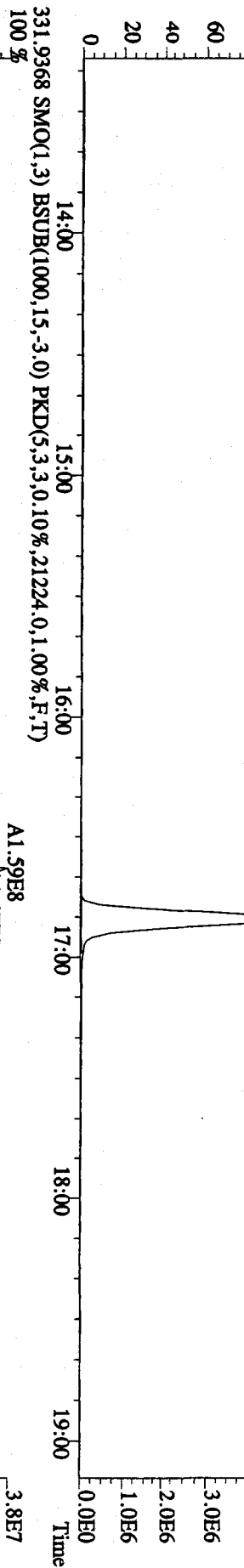
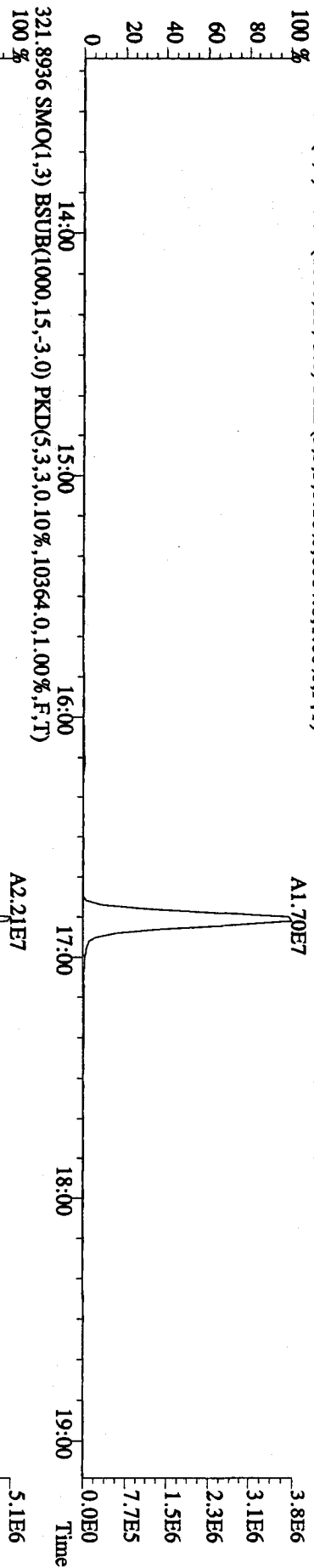
13C-1,2,3,6,7,8-HxCDD	0.722	0.016	2.17 %	0.70	0.73	0.72	0.73	0.73
1,2,3,4,7,8-HxCDD	1.263	0.170	13.4 %	1.07	1.09	1.33	1.42	1.40

1,2,3,6,7,8-HxCDD	1.391	0.165	11.9 %	1.20	1.22	1.49	1.51	1.54
1,2,3,7,8,9-HxCDD	1.467	0.160	10.9 %	1.27	1.33	1.56	1.63	1.55
Total HxCDD	1.374	0.164	11.9 %	1.18	1.21	1.46	1.52	1.50
3C-1,2,3,4,6,7,8-HpCDF	1.050	0.033	3.13 %	1.06	1.07	1.07	1.07	0.99
1,2,3,4,6,7,8-HpCDF	1.549	0.179	11.6 %	1.27	1.46	1.68	1.66	1.66
1,2,3,4,7,8,9-HpCDF	1.307	0.148	11.3 %	1.09	1.22	1.38	1.46	1.38
Total HpCDF	1.428	0.162	11.4 %	1.18	1.34	1.53	1.56	1.52
3C-1,2,3,4,6,7,8-HpCDD	0.758	0.035	4.66 %	0.79	0.80	0.73	0.76	0.71
1,2,3,4,6,7,8-HpCDD	1.277	0.148	11.6 %	1.10	1.13	1.36	1.40	1.39
Total HpCDD	1.277	0.148	11.6 %	1.10	1.13	1.36	1.40	1.39
13C-OCDD	0.716	0.055	7.68 %	0.76	0.75	0.70	0.75	0.63
OCDF	1.578	0.226	14.3 %	1.25	1.44	1.68	1.74	1.78
OCDD	1.126	0.127	11.3 %	0.95	1.03	1.20	1.21	1.23

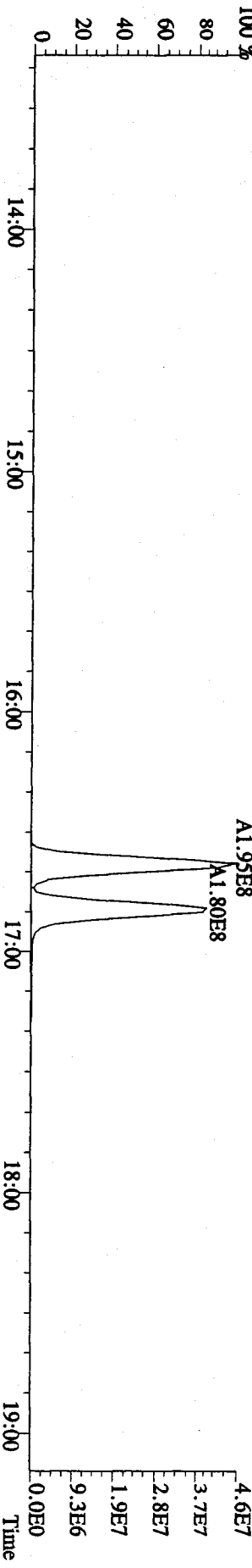
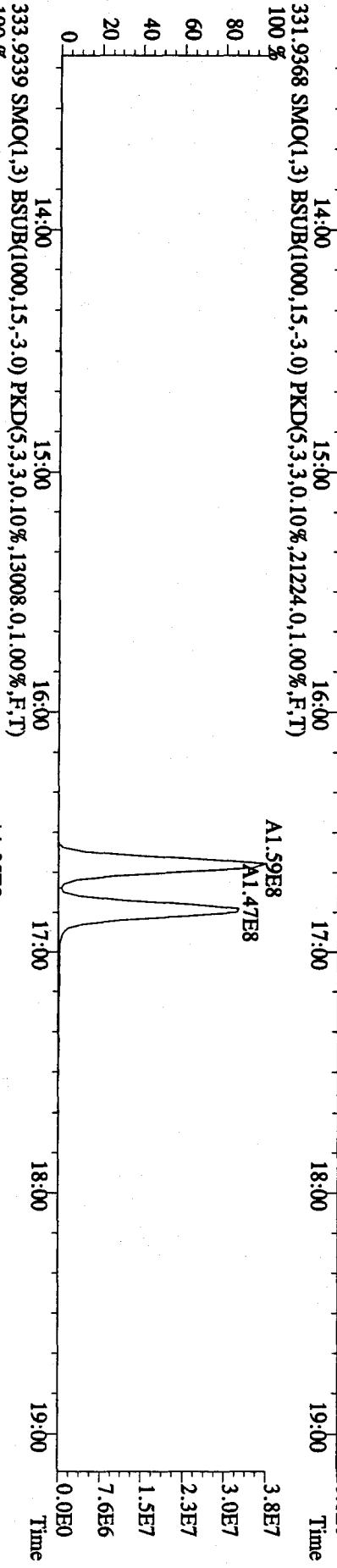
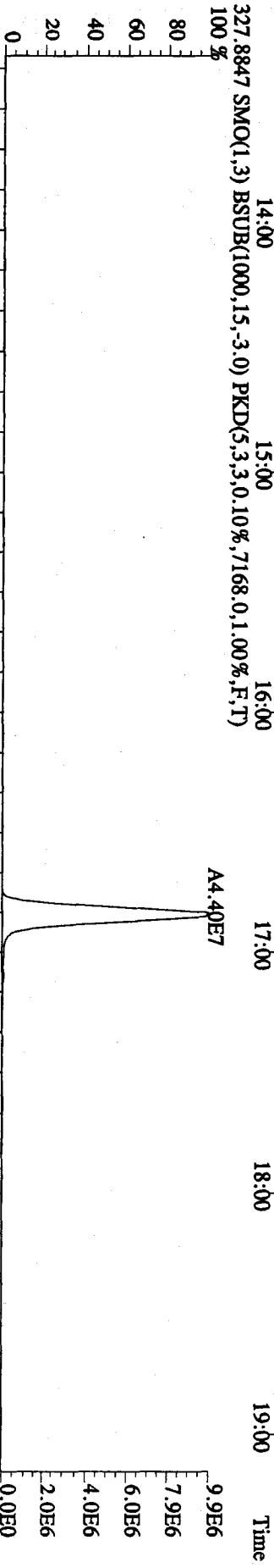
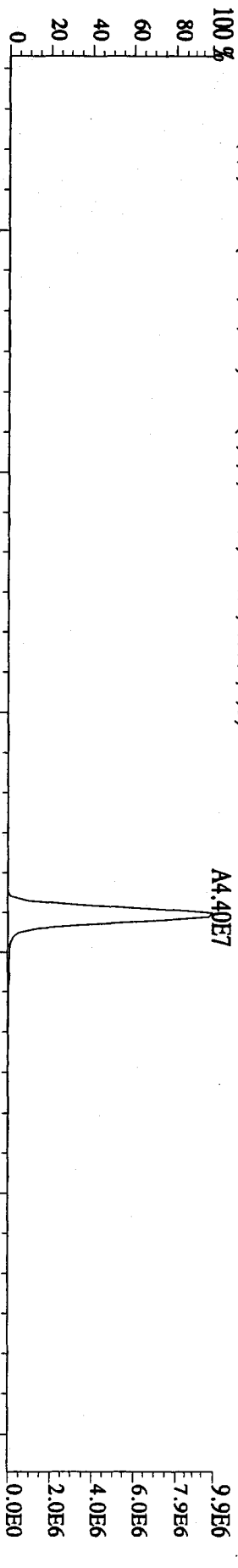
File:17DE091D5 #1-348 Acq:17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST1217 :CS3 09DXN384 Exp:DIOXIN
 303.9016 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17564.0,1.00%,F,T)
 100 % A3.03E7



File:17DE091D5 #1-348 Acq:17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST1217 :CS3 09DXN384 Exp.:DIOXIN
 319.8965 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6064,0,1,00%,F,T)
 100 %



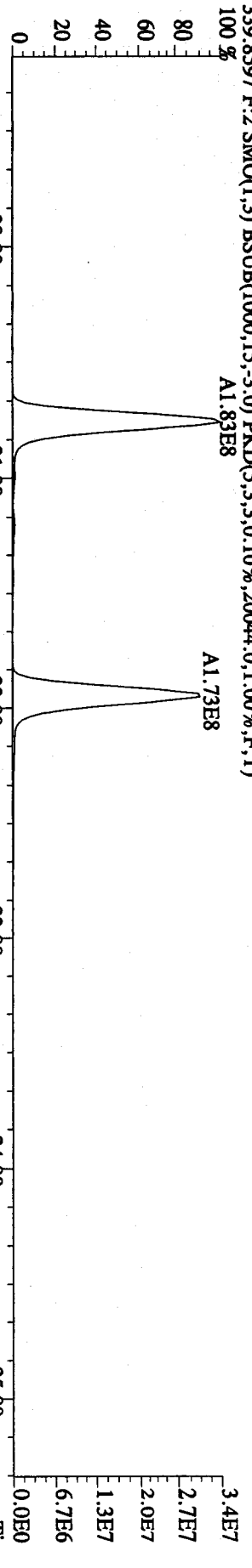
File:17DE091D5 #1-348 Acq:17-DEC-2009 08:47:38 GC EI + Voltage SIR 70SE
 Sample#1 Text:ST1217 :CS3 09DXN384 Exp:DIOXIN
 327.8847 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7168,0,1,00%,F,T)
 100 %



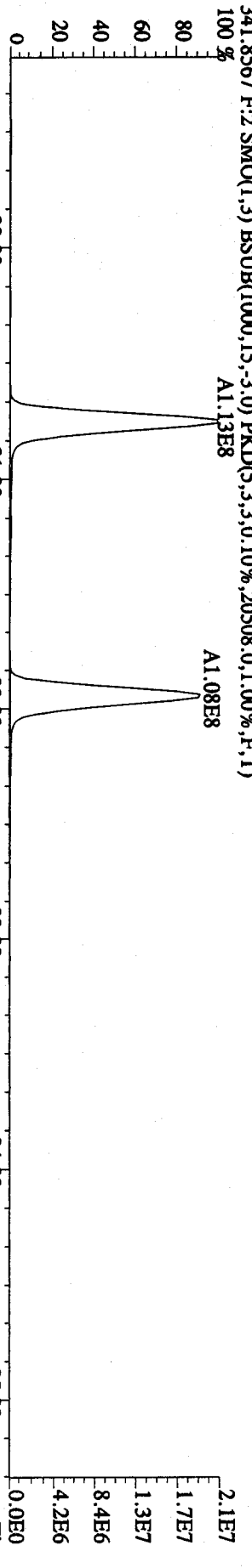
File: 17DE091D5 #1-434 Acq: 17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE

Sample#1 Text: ST1217 :CS3 09DXN384 Exp: DIOXIN

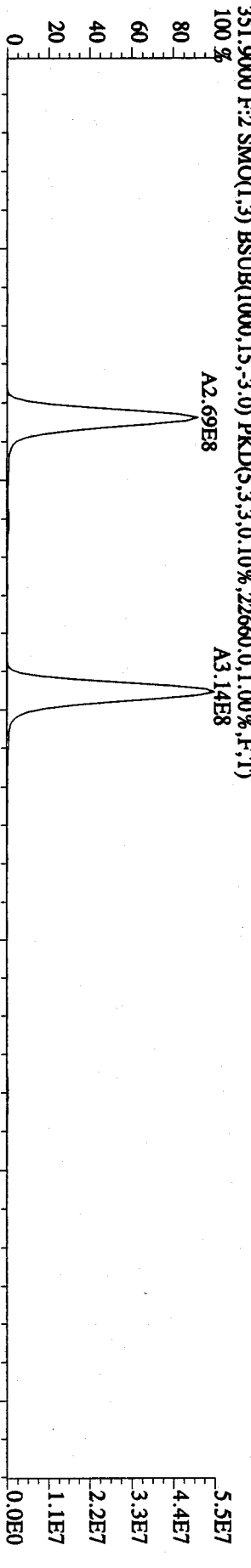
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,20044,0,1,00%,F,T)



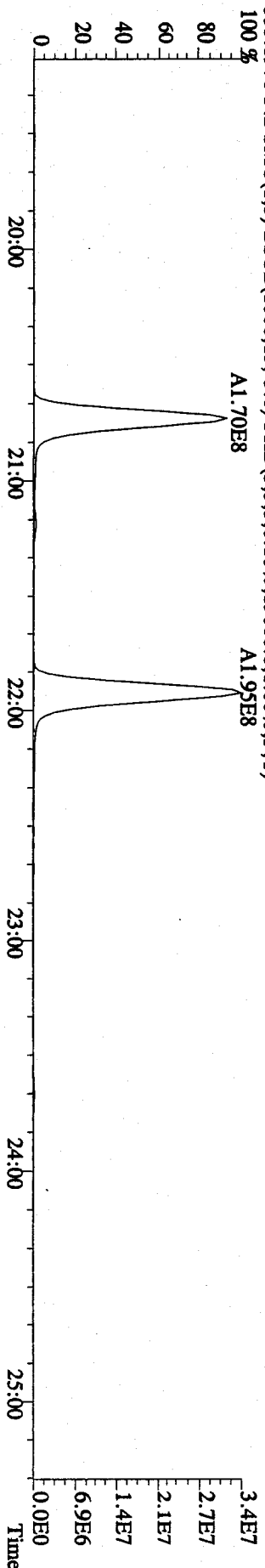
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,20508,0,1,00%,F,T)



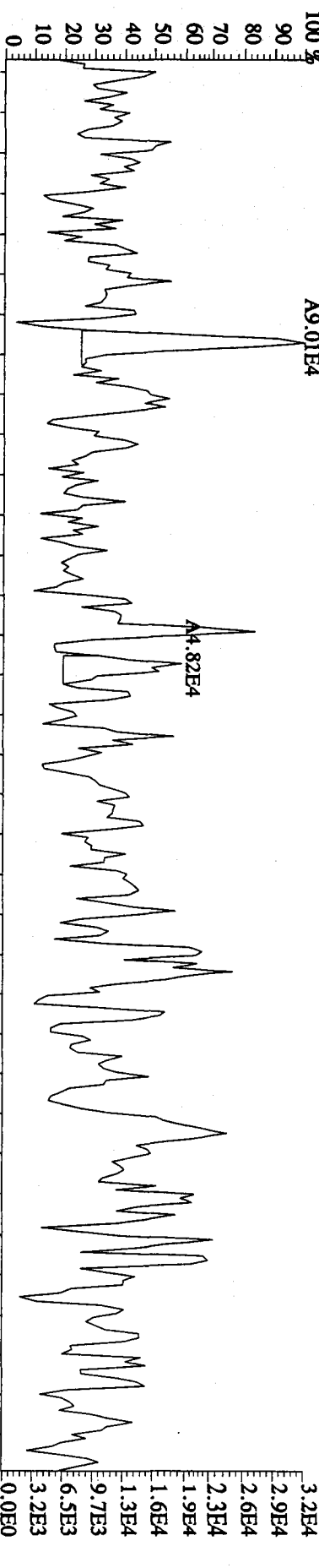
351.9000 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,22660,0,1,00%,F,T)



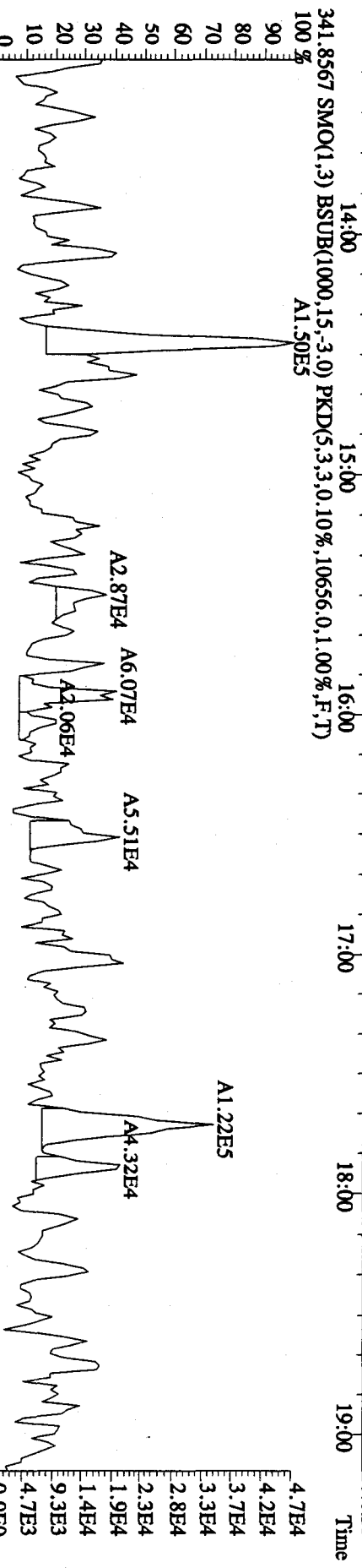
353.8970 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,19000,0,1,00%,F,T)



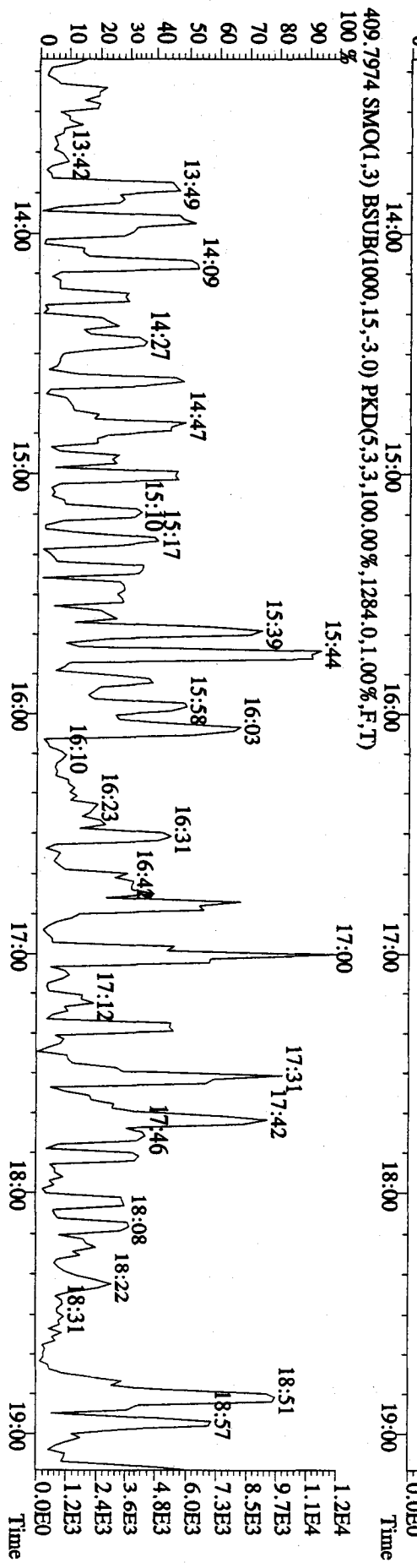
File: 17DE091D5 #1-348 Acq: 17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE
 Sample#1 Text: ST1217 :CS3 09DXN384 Exp: DIOXIN
 339.8597 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,13412.0,1.00%,F,T)
 A9.01E4



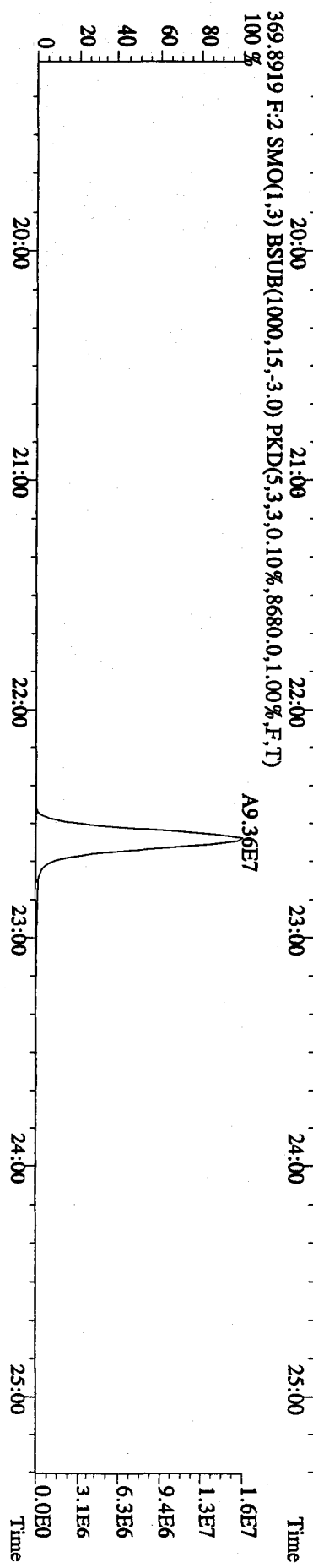
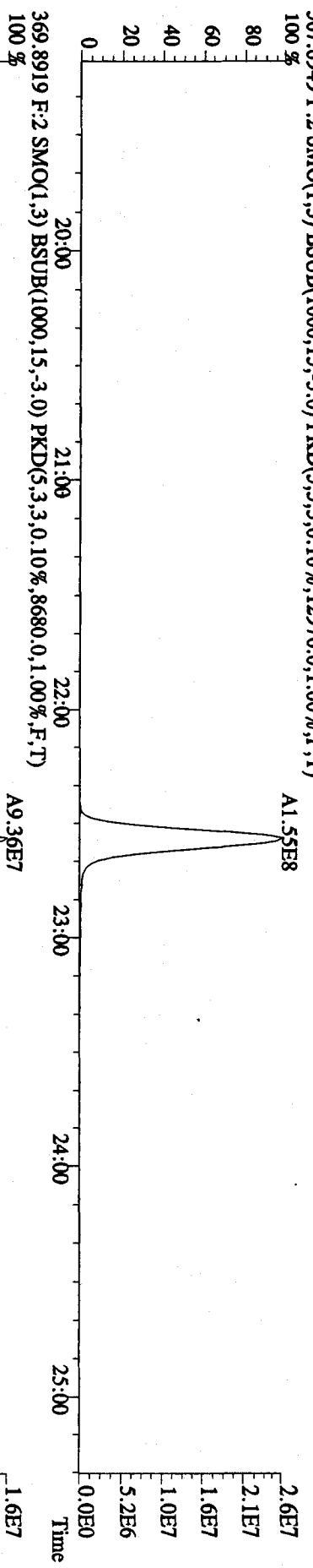
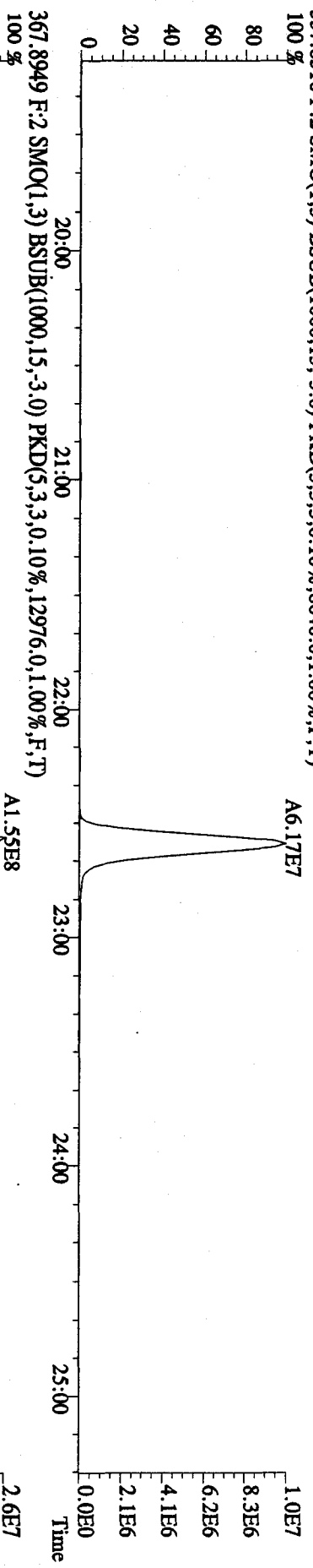
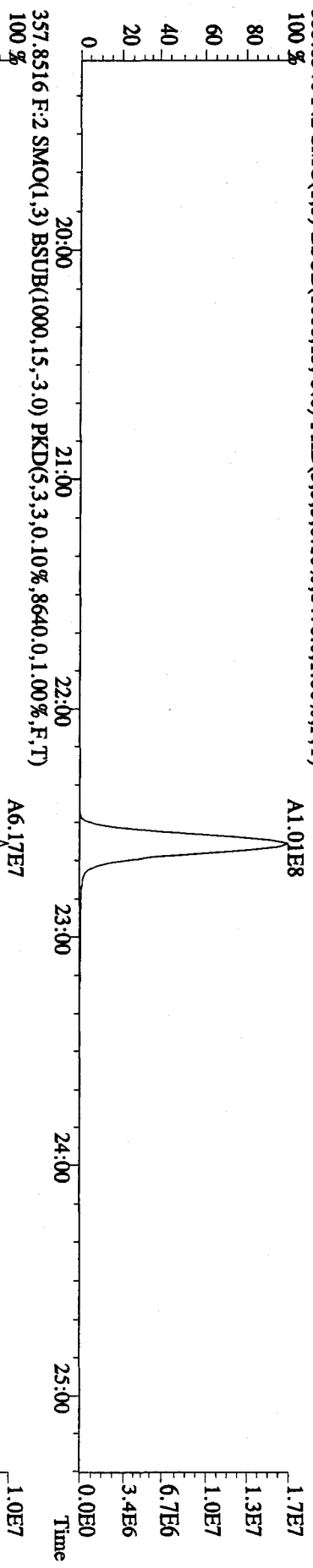
341.8567 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10656.0,1.00%,F,T)
 A1.50E5



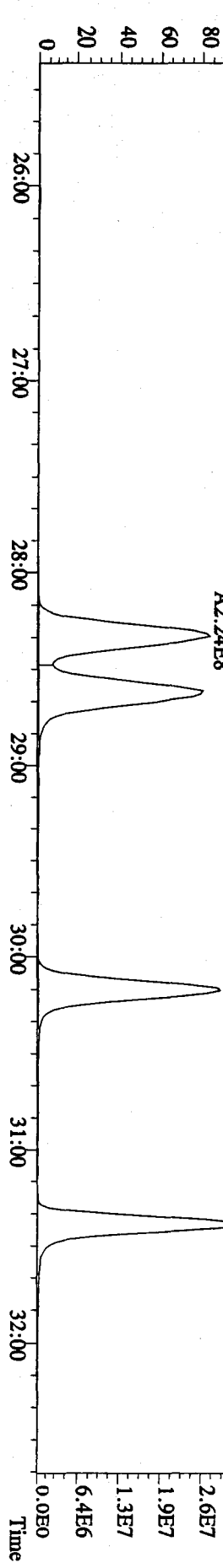
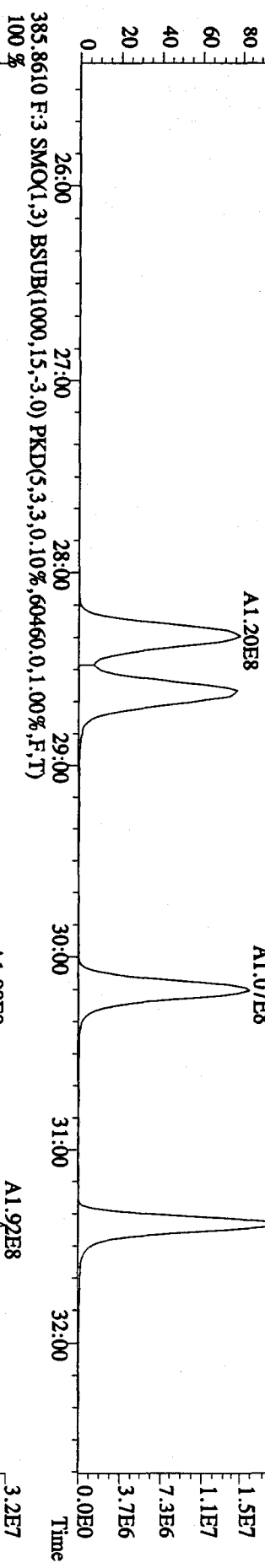
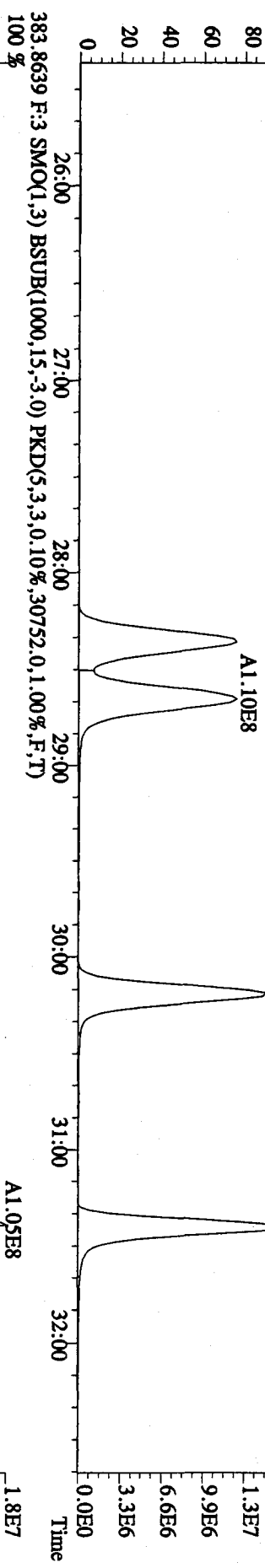
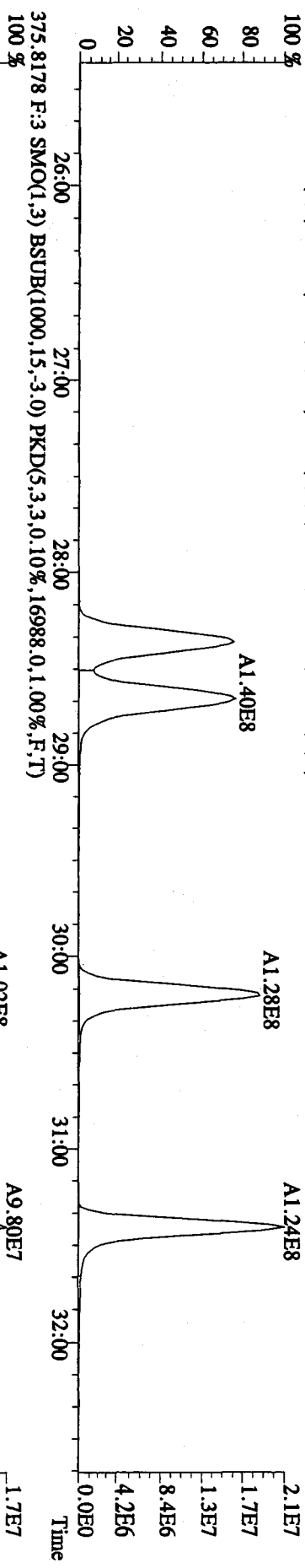
409.7974 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1284.0,1.00%,F,T)



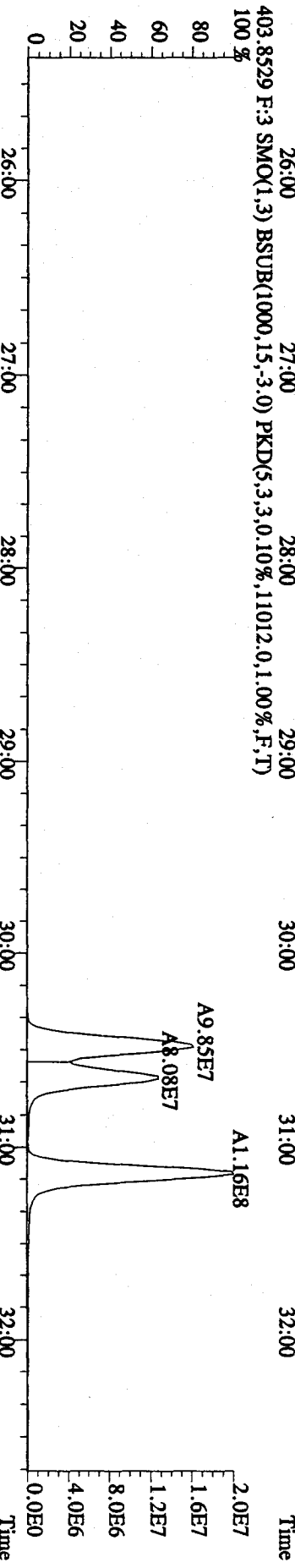
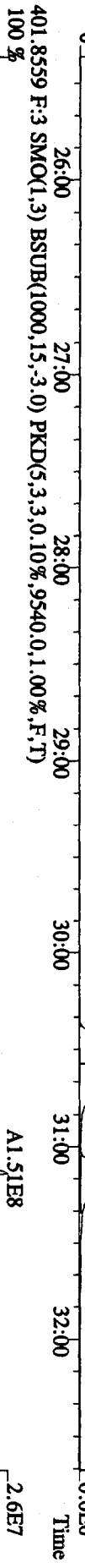
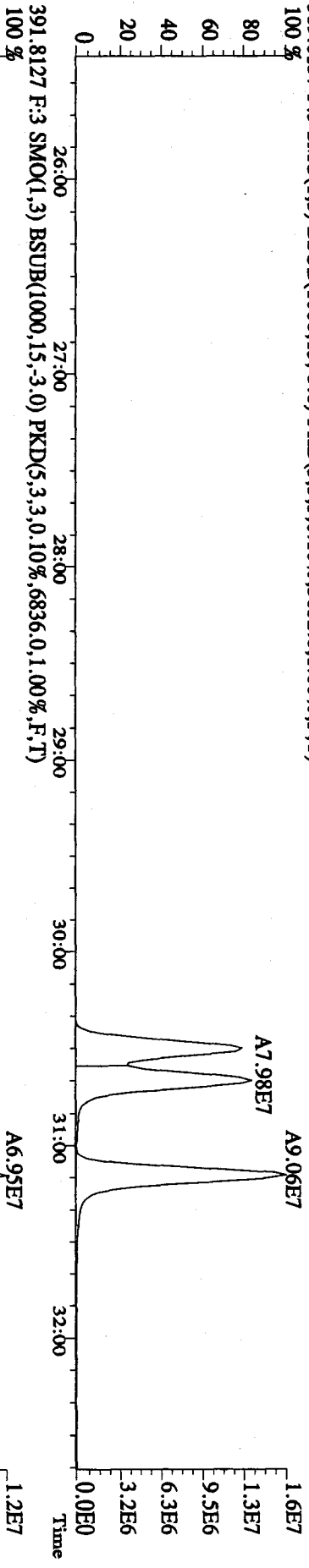
File:17DE091D5 #1-434 Acq:17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST1217 :CS3 09DXN384 Exp.:DIOXIN
 355 8546 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8476,0,1,00%,F,T)
 100 %



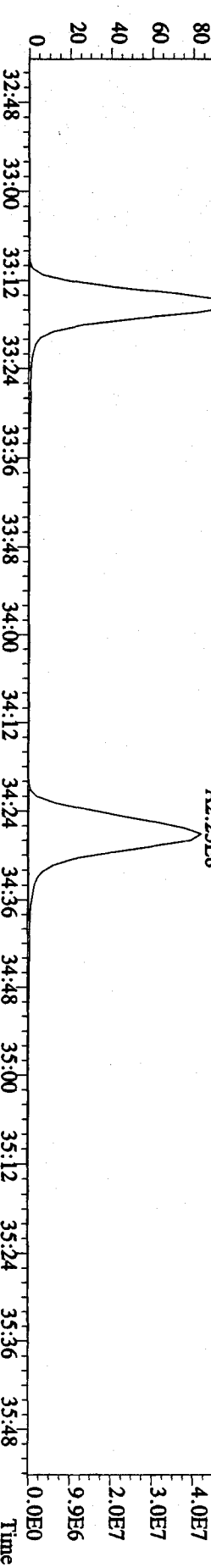
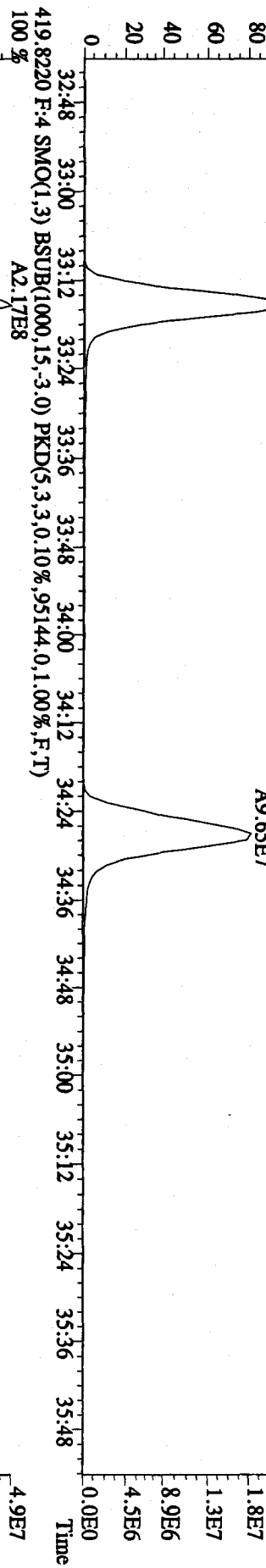
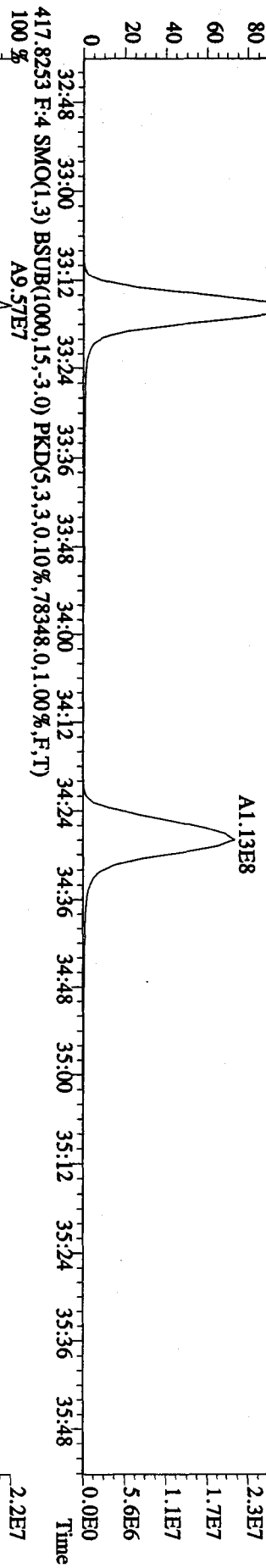
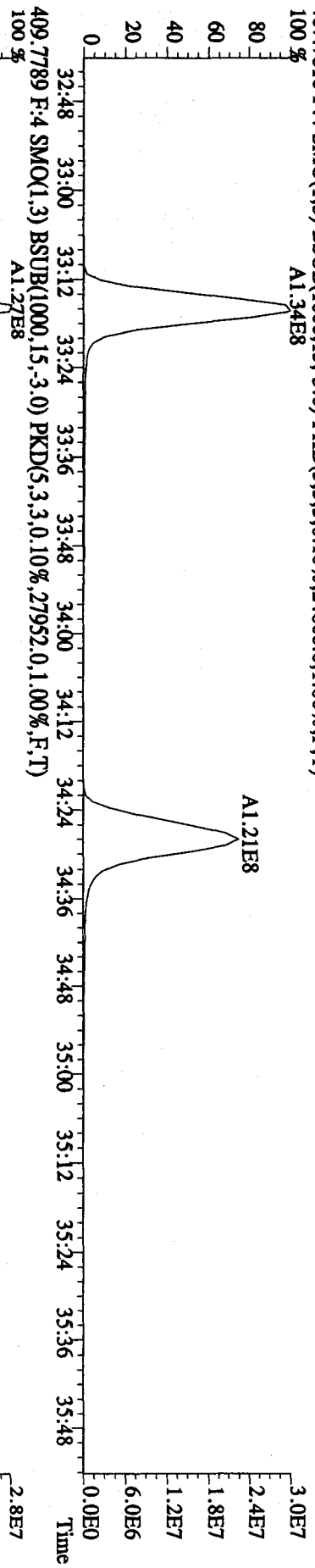
File:17DE091D5 #1-492 Acq:17-DEC-2009 08:47:38 GC EI + Voltage SIR 70SE
 Sample#1 Text:ST1217 :CS3 09DXN384 Exp:DIOXIN
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,24496,0,1,00%,F,T)
 100 %



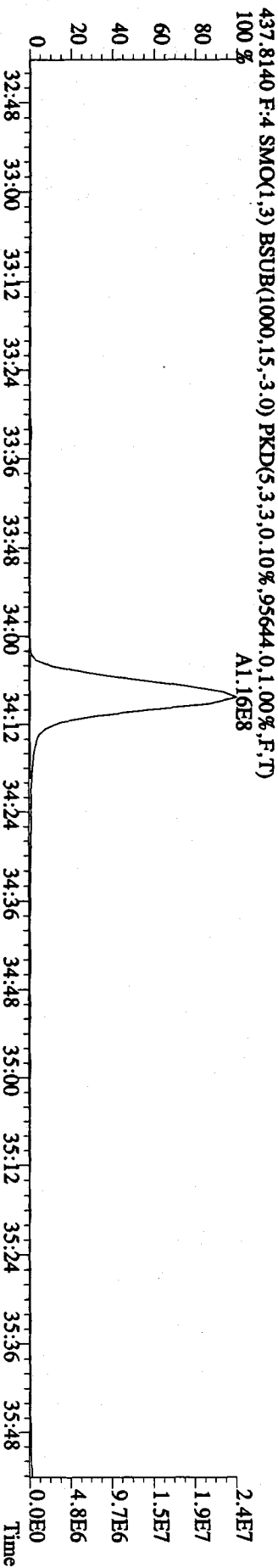
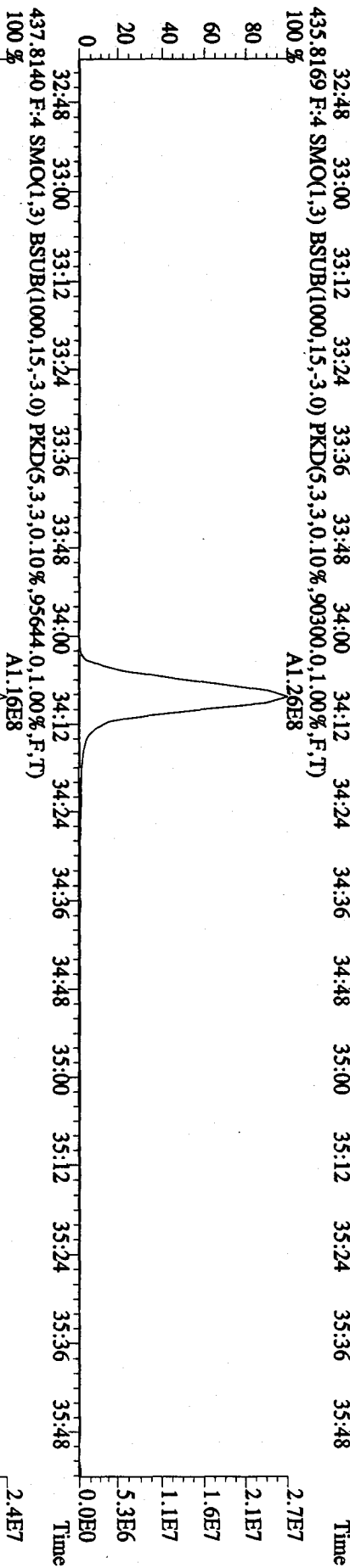
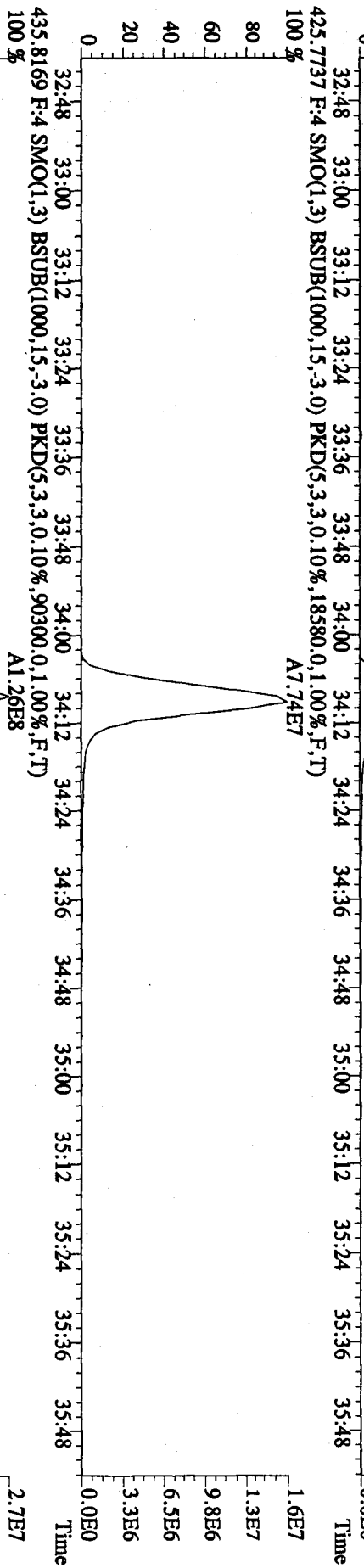
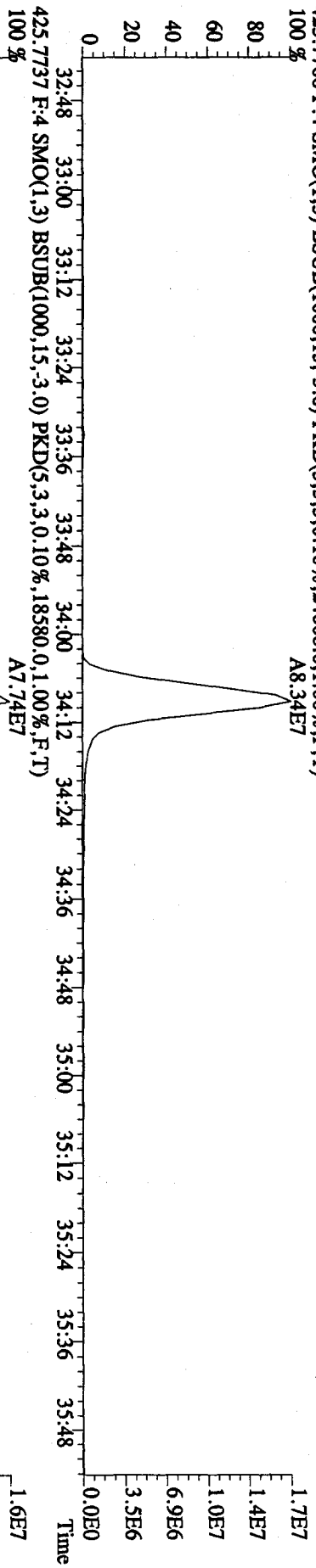
File:17DE091D5 #1-492 Acq:17-DEC-2009 08:47:38 GC EI + Voltage SIR 70SE
 Sample#1 Text:ST1217 :CS3 09DXN384 Exp:DIOXIN
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5052,0,1,00%,F,T)
 100 %



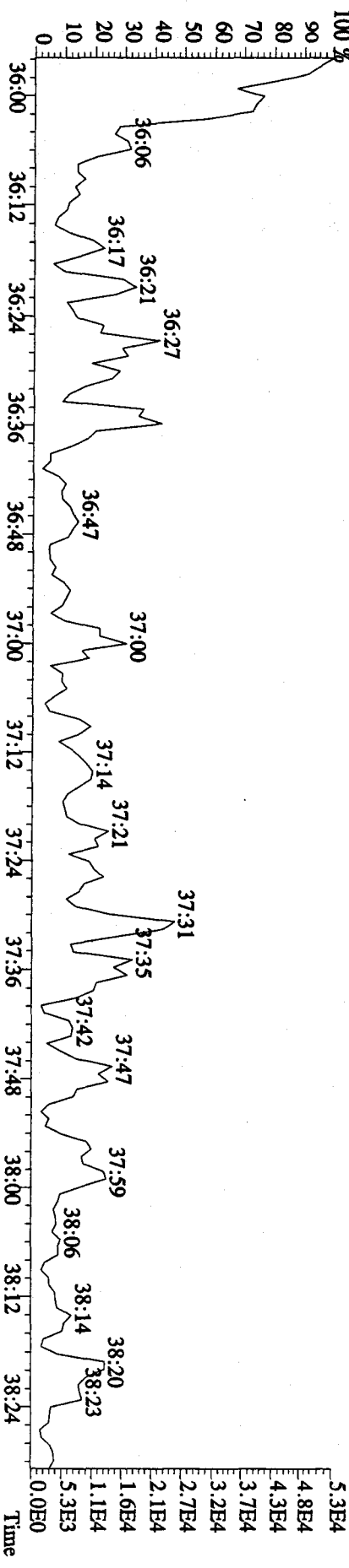
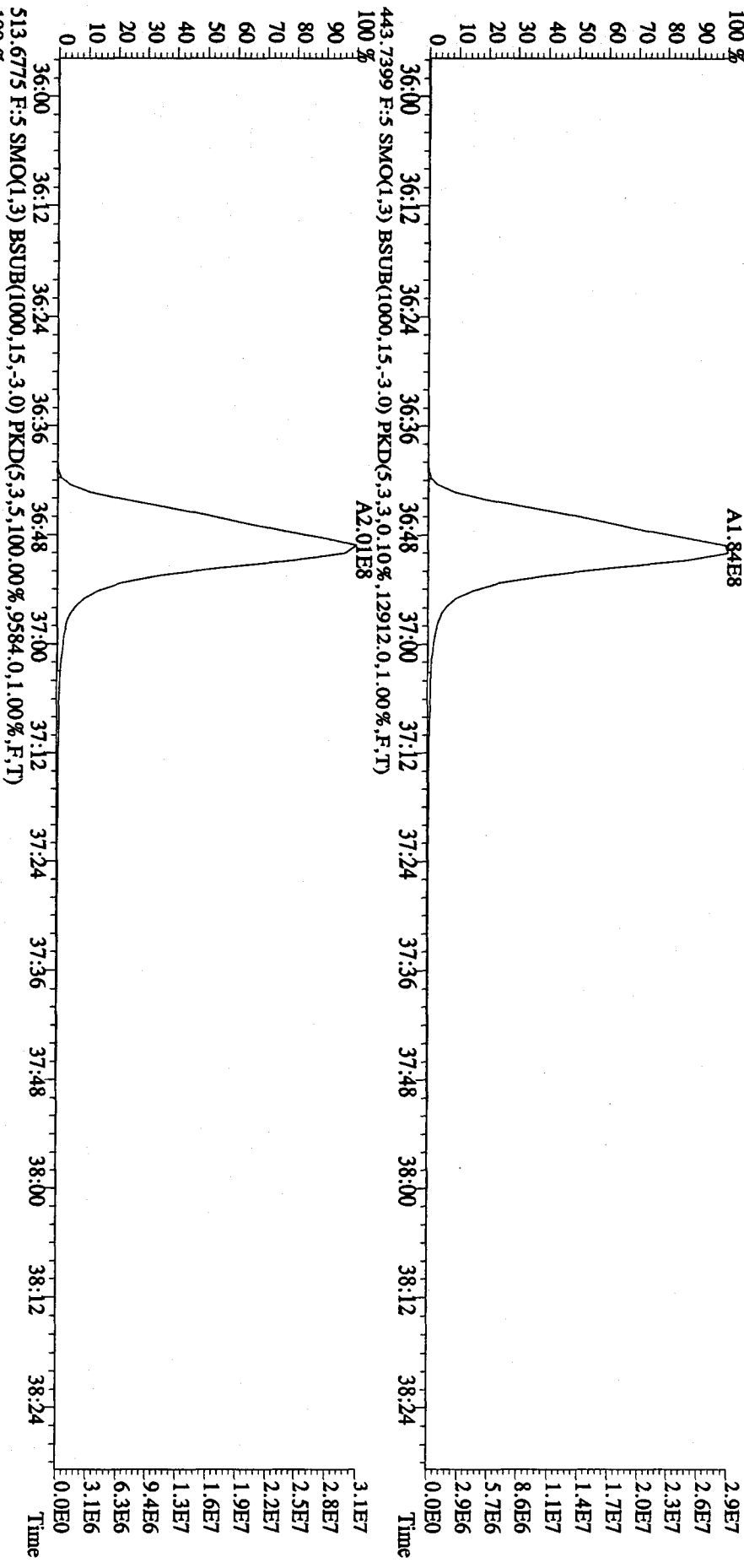
Sample#1 Text:ST1217 :CS3 09DXN384 Exp:DIOXIN
407.7818 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,24868,0,1,00%,F,T)



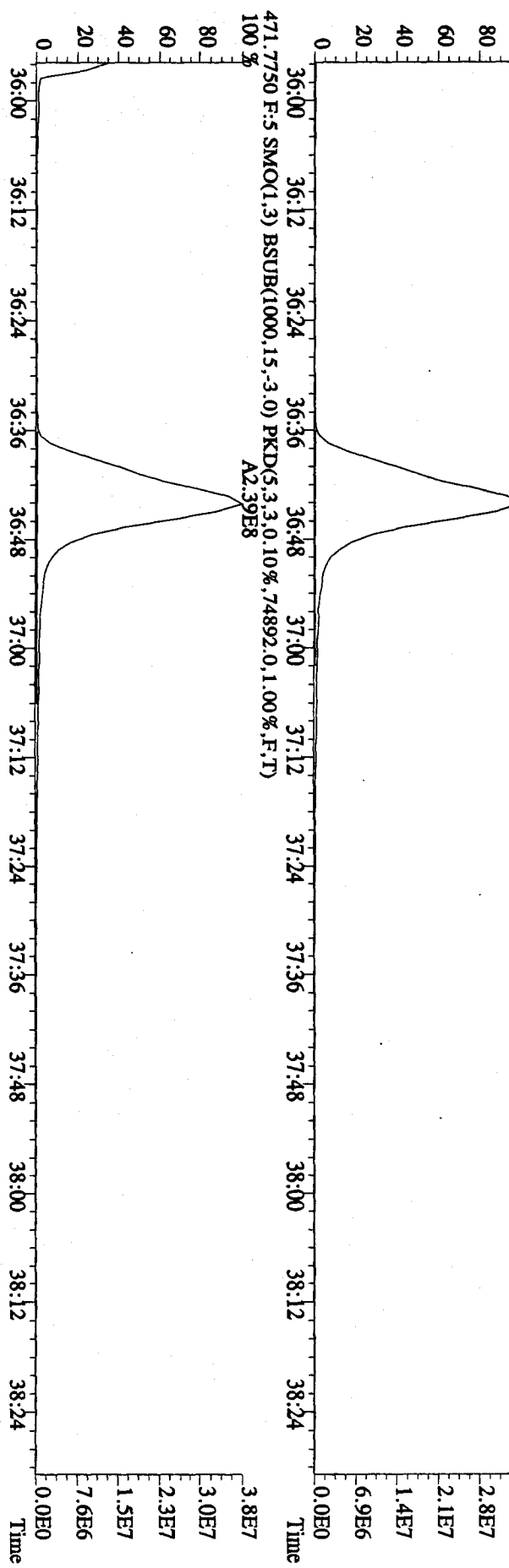
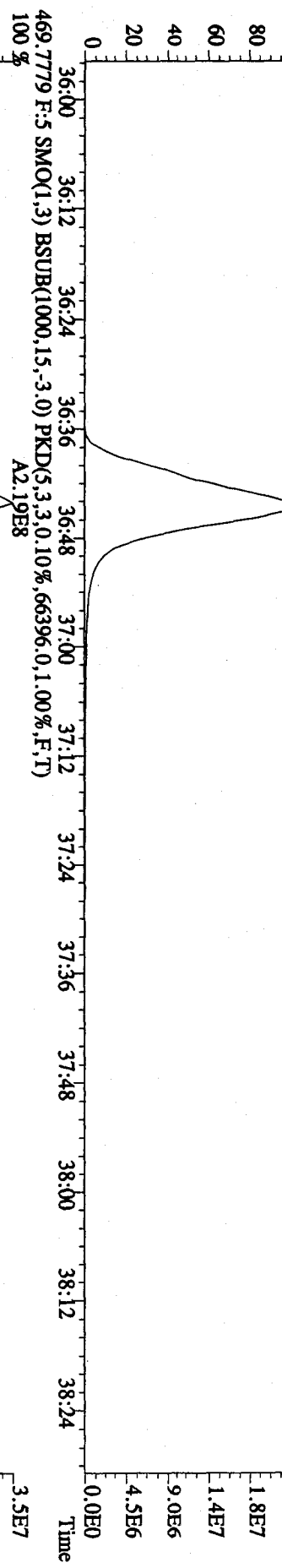
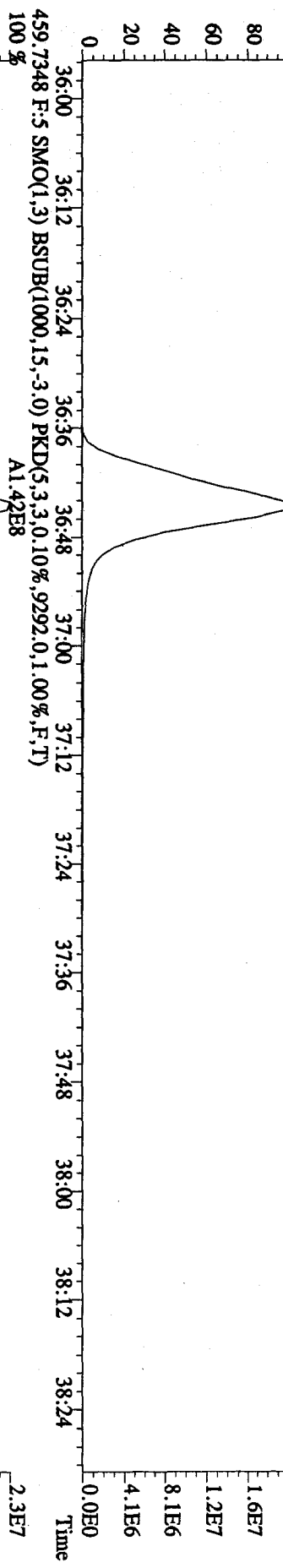
File:17DEC09ID5 #1-226 Acq:17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST1217 :CS3 09DXN384 Exp:DIOXIN
 423.7766 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,24868,0,1,00%,F,T)
 100%



File:17DE091D5 #1-187 Acq:17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE
 Sample#1 Text:ST1217 :CS3 09DXN384 Exp:DIOXIN
 441.7428 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17796,0.1,00%,F,T)
 100% A1.84E8



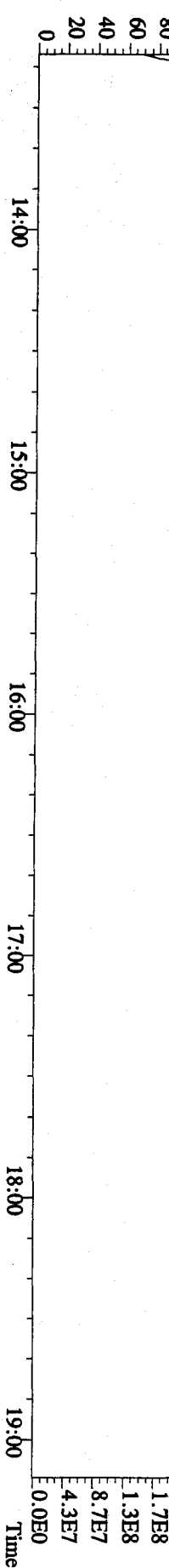
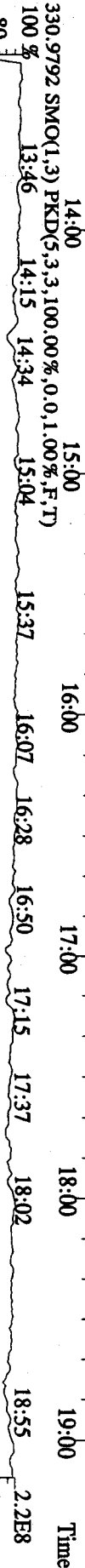
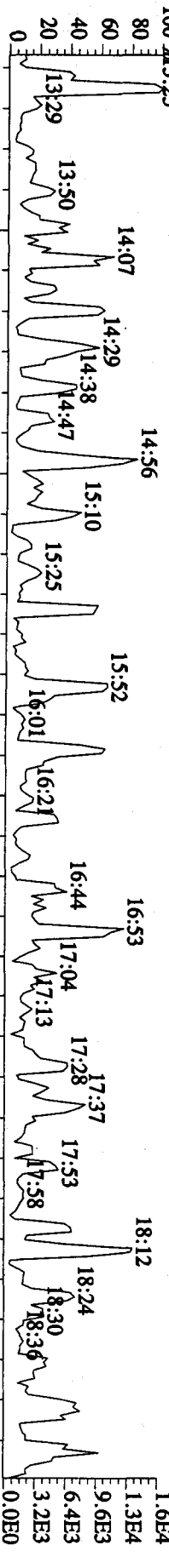
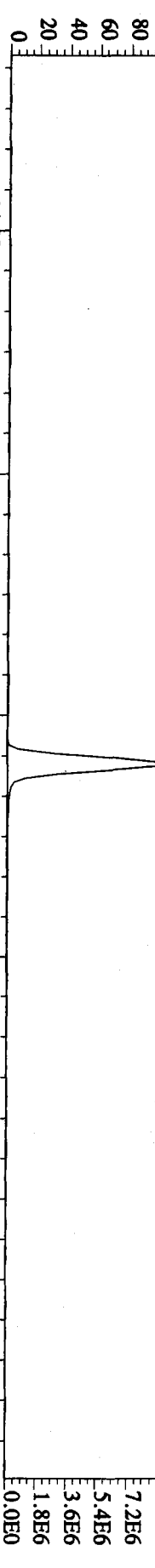
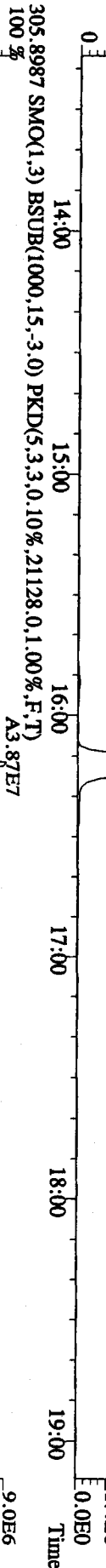
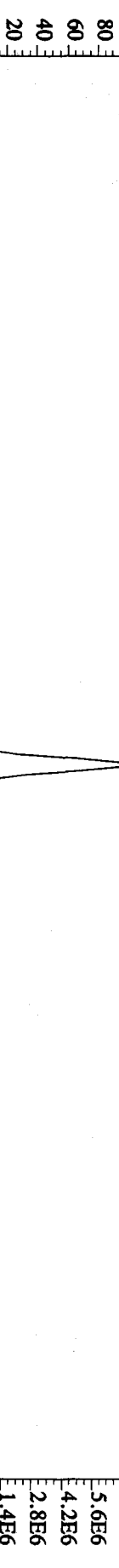
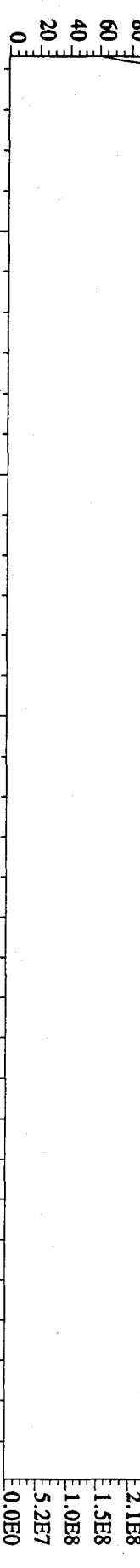
File:17DEC091D5 #1-187 Acq:17-DEC-2009 08:47:38 GC EI + Voltage SIR 70SE
 Sample#1 Text:ST1217 :CS3 09DXN384 Exp:DIOXIN
 457.7377 F.S SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15508,0,1,00%,F,T)
 100 % A1.27E8



File: 17DE091D5 #1-348 Acq: 17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE

Sample#1 Text: ST1217 :CS3 09DXN384 Exp: DIOXIN

292.9825 SMO(1,3) PKD(5,3,5,100,00%,0,0,1,00%,F,T)



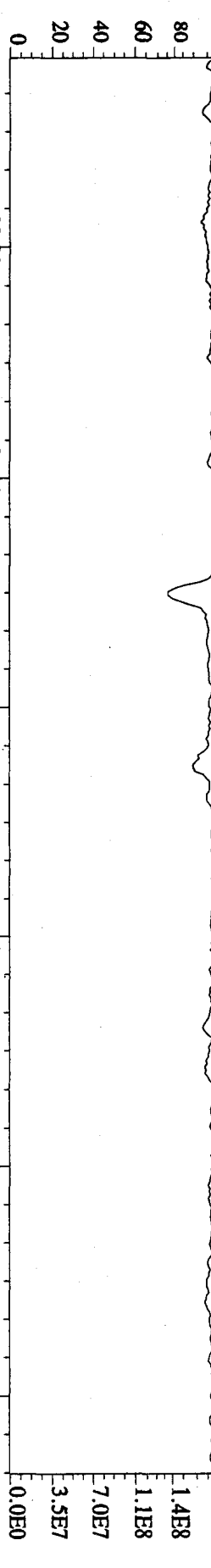
File:17DE091D5 #1-434 Acq:17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE

Sample#1 Text:ST1217 :CS3 09DXN384 Exp:DIOXIN

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

100% 19:30 20:06 20:33 20:52 21:15

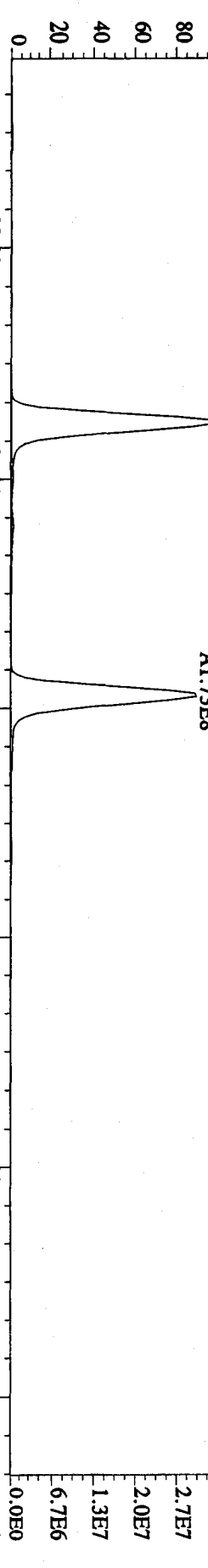
21:55 22:22 22:47 23:06 23:40 24:23 24:43 25:03



339.8597 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,20044,0,1.00%,F,T)

A1.83E8

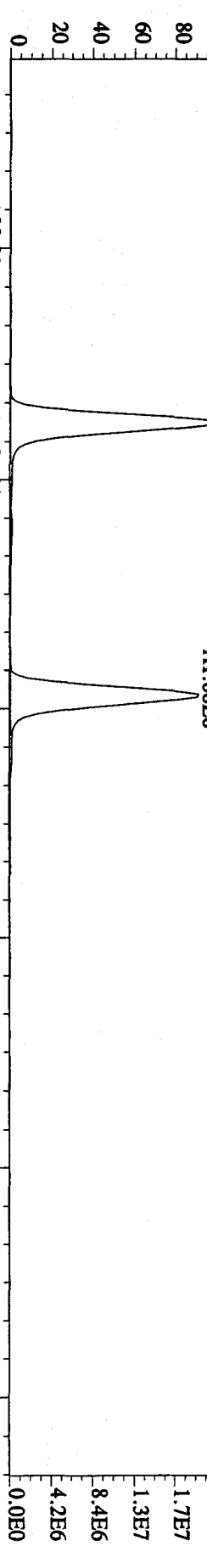
A1.73E8



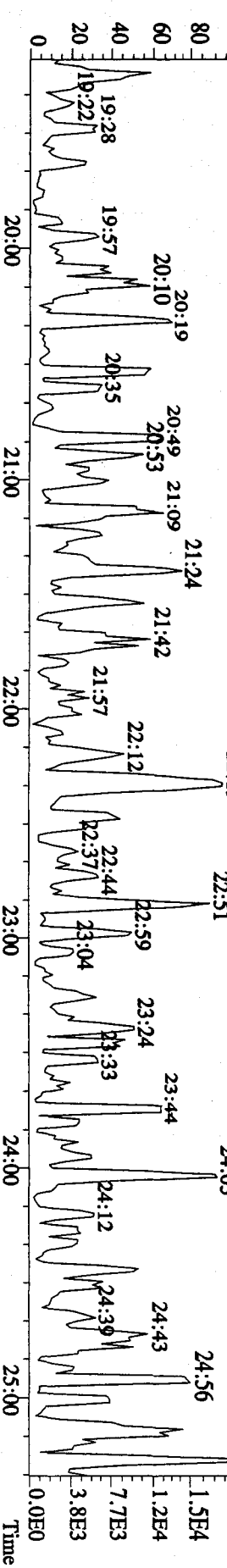
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,20508,0,1.00%,F,T)

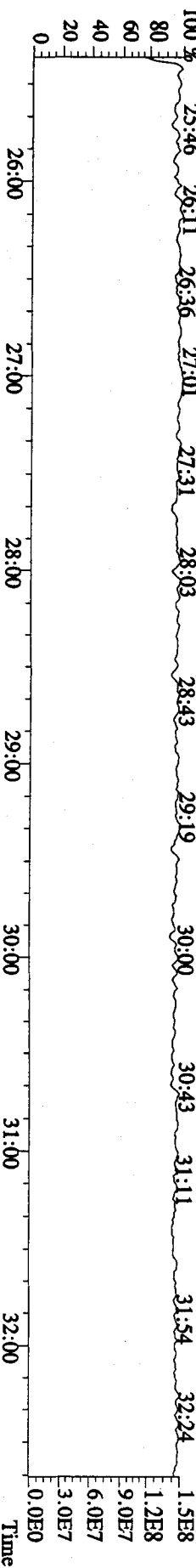
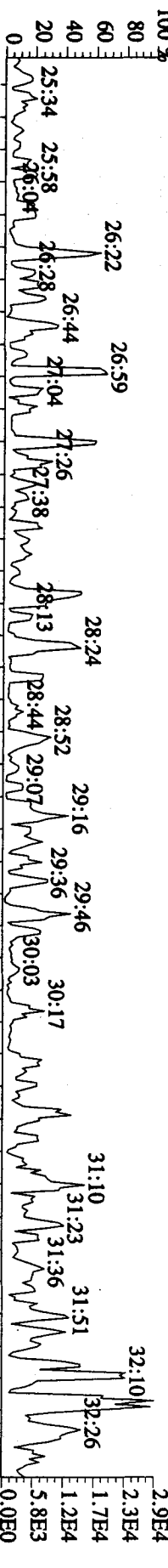
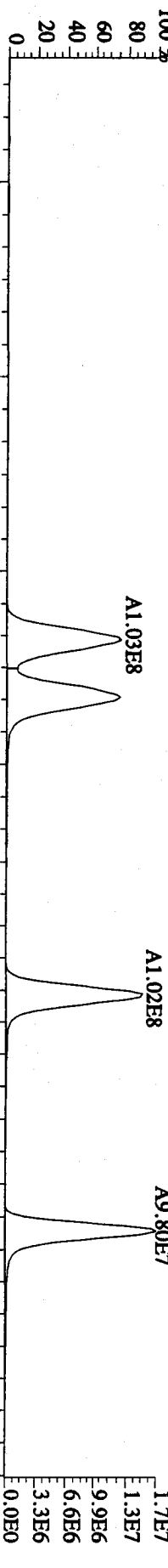
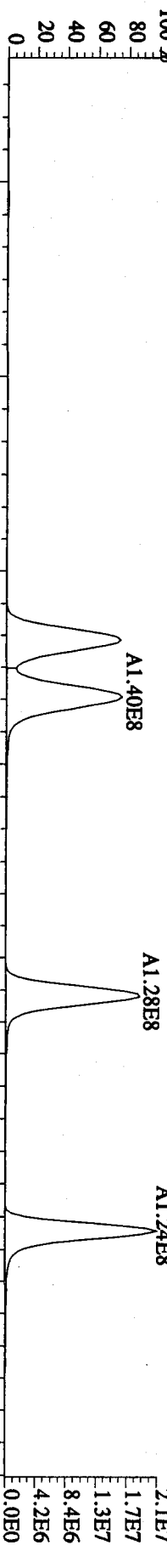
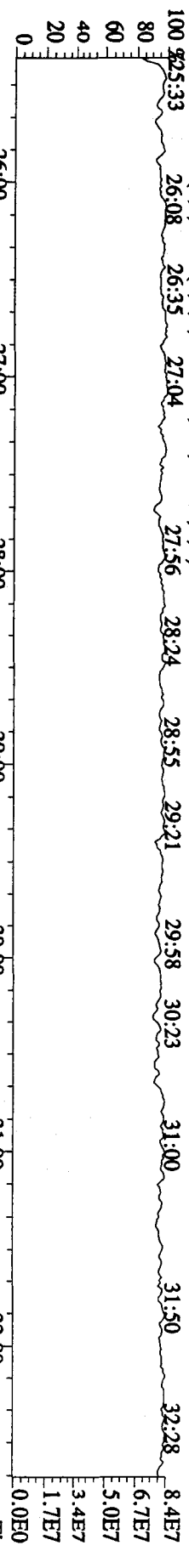
A1.13E8

A1.08E8



409.7974 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2616,0,1.00%,F,T)



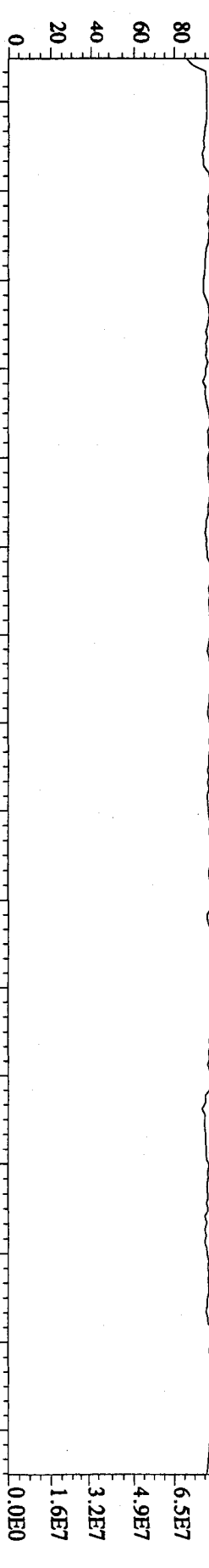


File:17DE091D5 #1-226 Acq:17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE

Sample#1 Text:ST1217 :CS3 09DXN384 Exp:DIOXIN

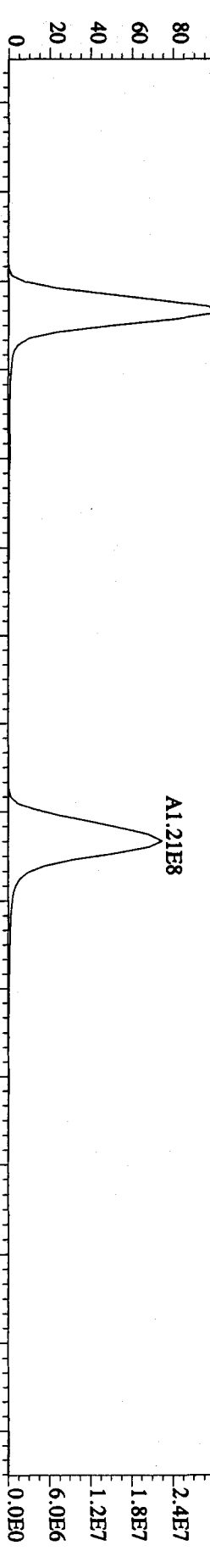
430.9728 F:4 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)

100% 32:49 32:59 33:16 33:32 33:51 34:05 34:30 34:45 35:12 35:35 35:49



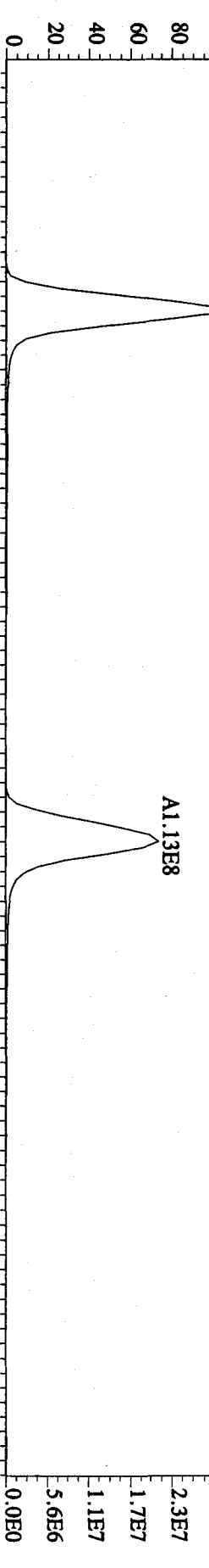
407.7818 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,24868,0,1.00%,F,T)

100% 32:48 33:00 33:12 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



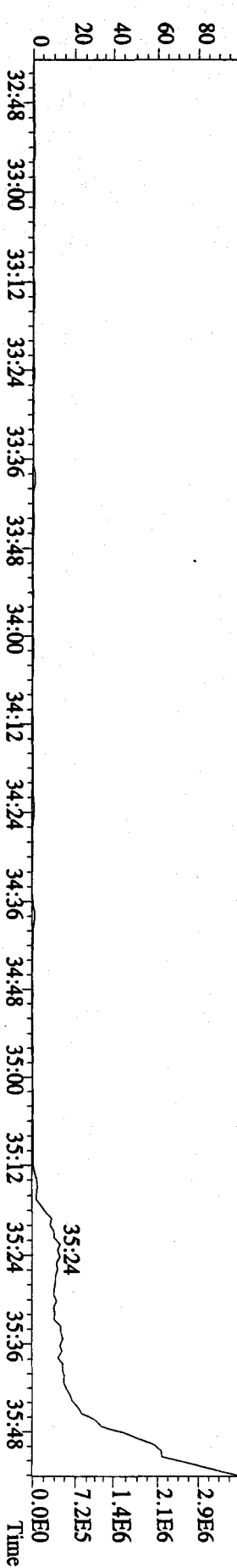
409.7789 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,27952,0,1.00%,F,T)

100% 32:48 33:00 33:12 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

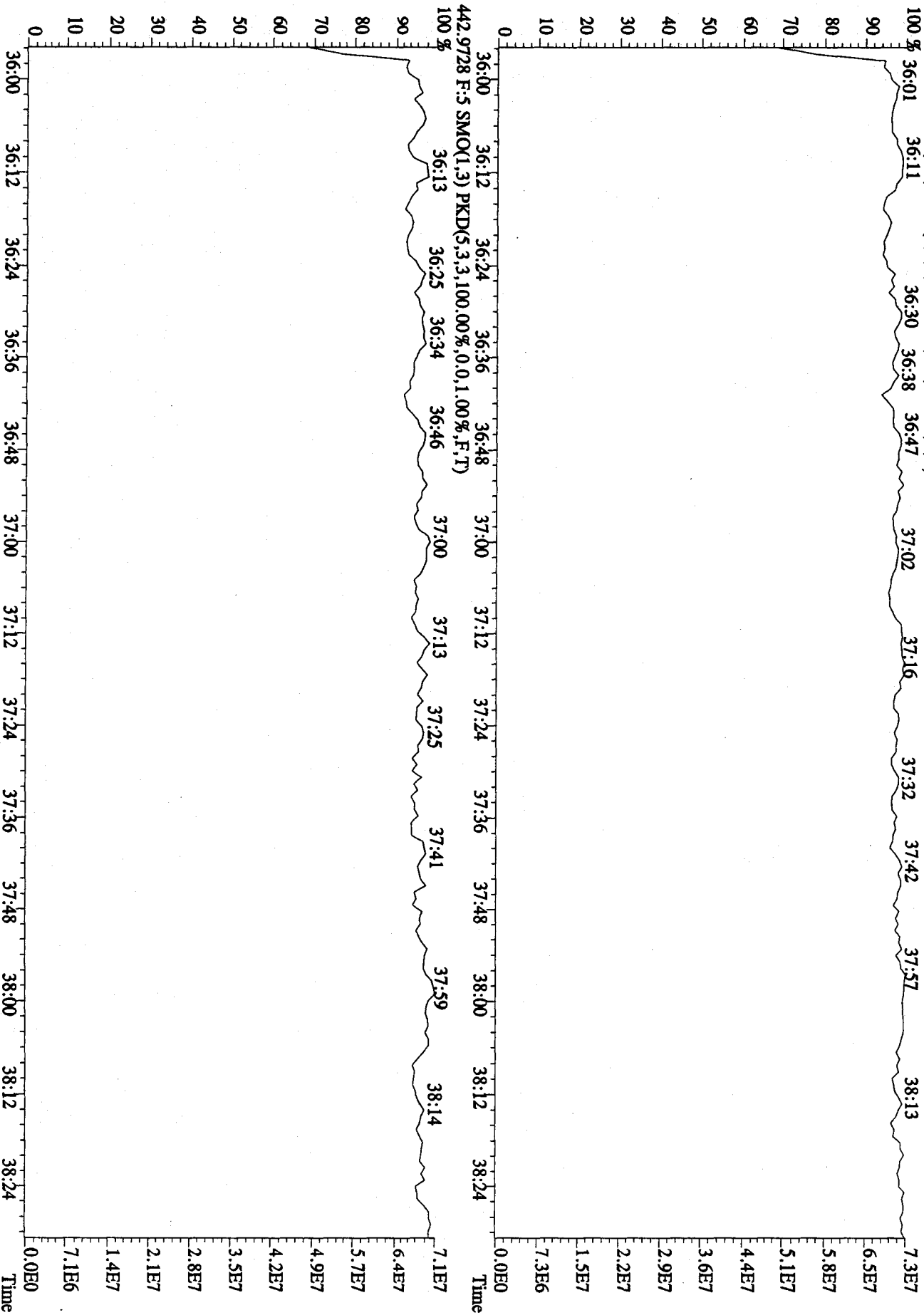


479.7165 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,7184,0,1.00%,F,T)

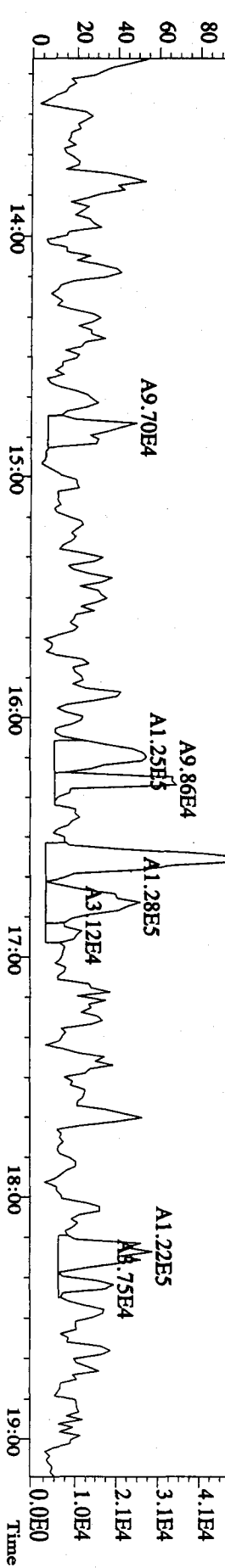
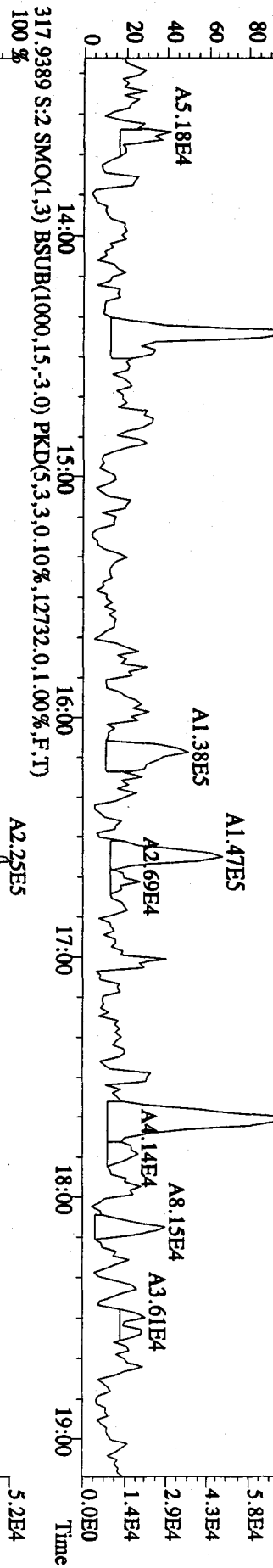
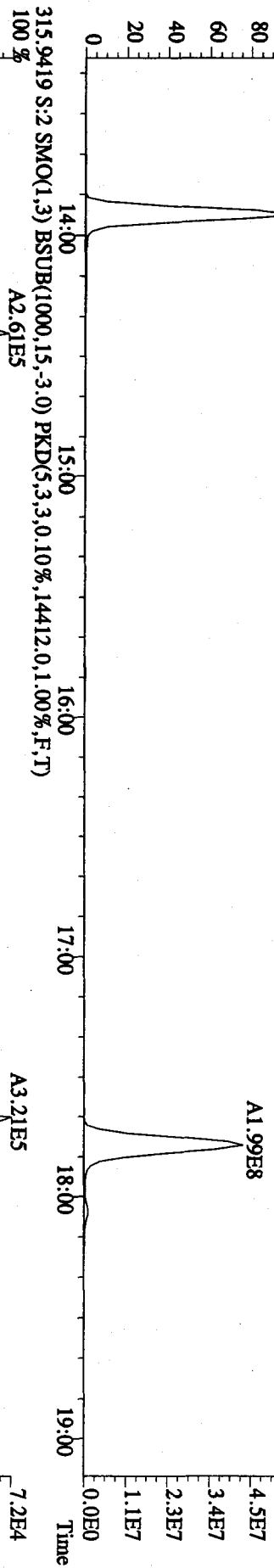
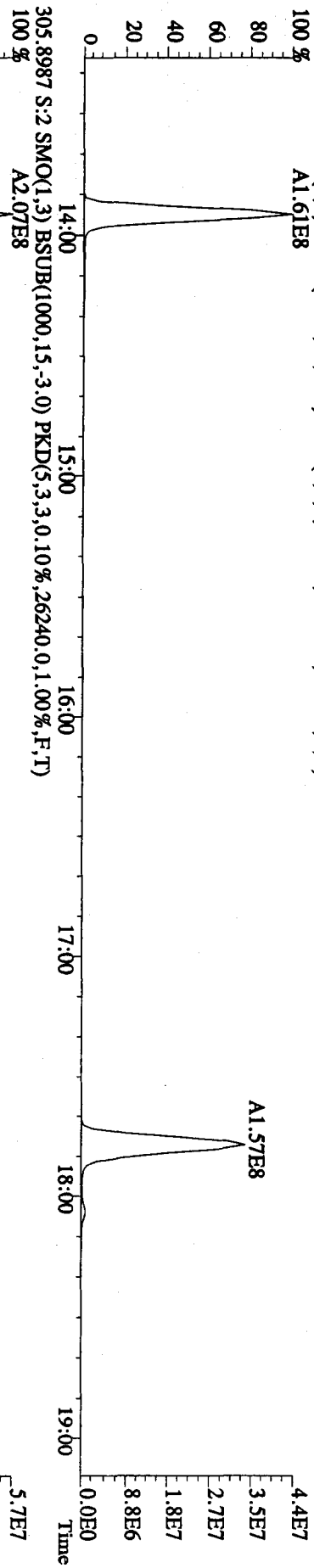
100% 32:48 33:00 33:12 33:24 33:36 33:48 34:00 34:12 34:24 34:36 34:48 35:00 35:12 35:24 35:36 35:48



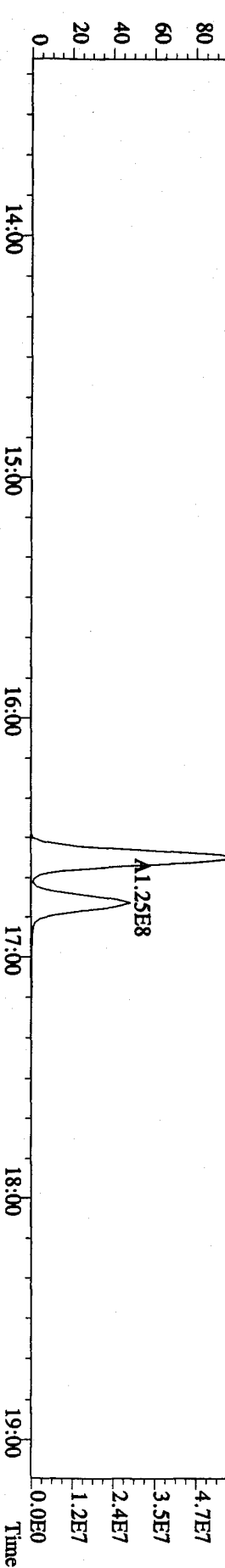
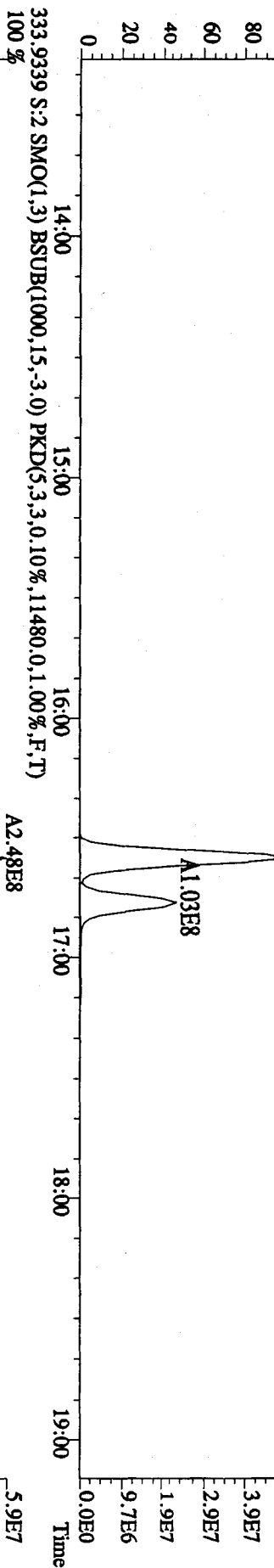
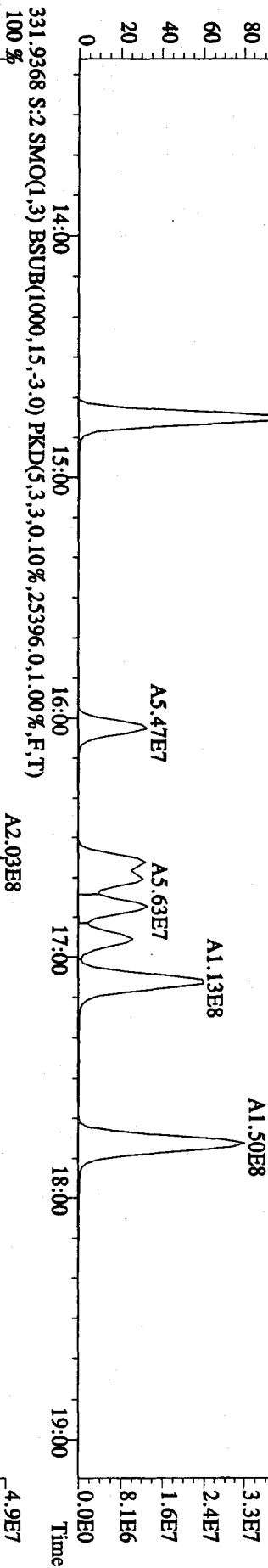
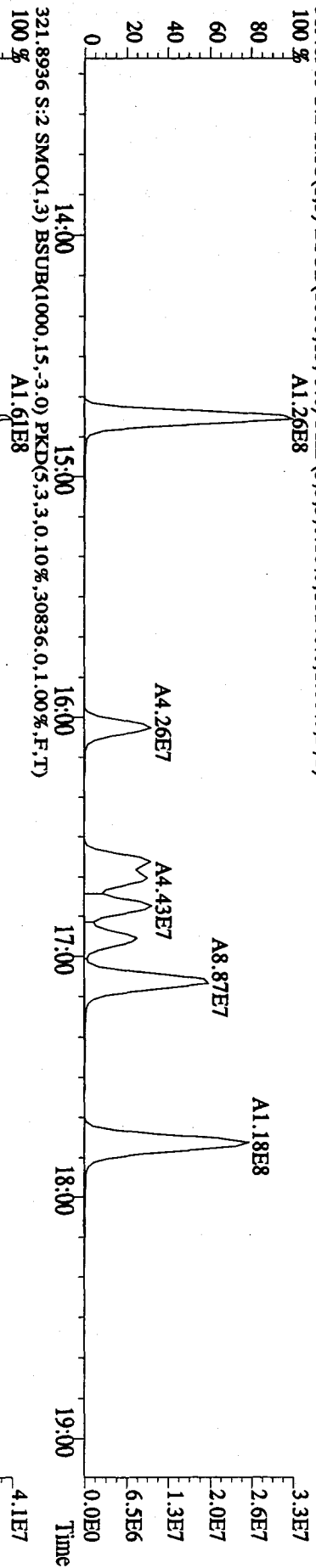
File: 17DE091D5 #1-187 Acq: 17-DEC-2009 08:47:38 GC EI+ Voltage SIR 70SE
 Sample#1 Text: ST1217 :CS3 09DXN384 Exp: DIOXIN
 454.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 36:01 36:11 36:30 36:38 36:47 37:02 37:16 37:32 37:42 37:57 38:13



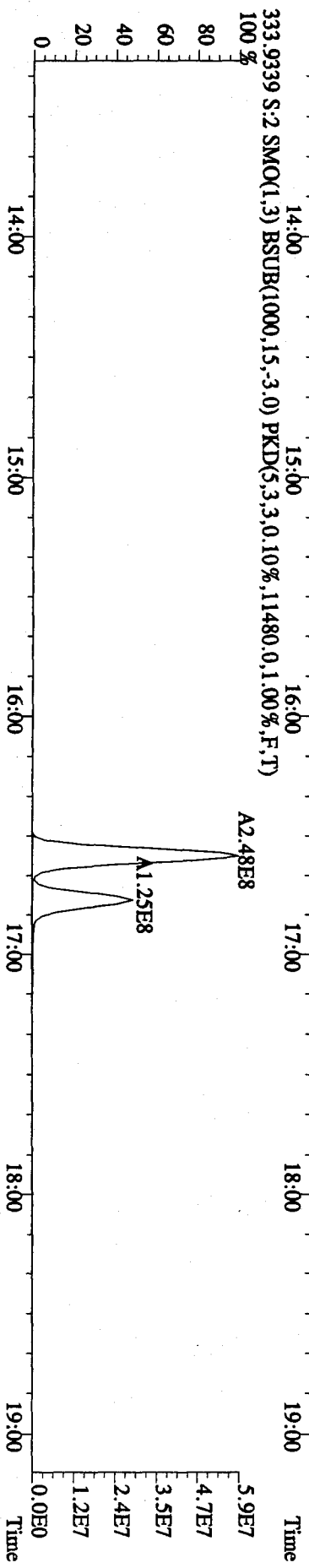
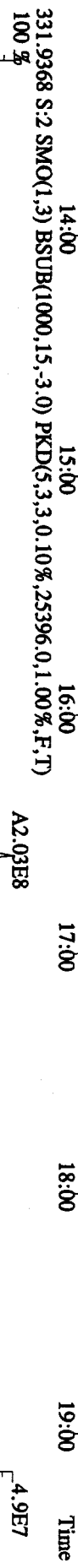
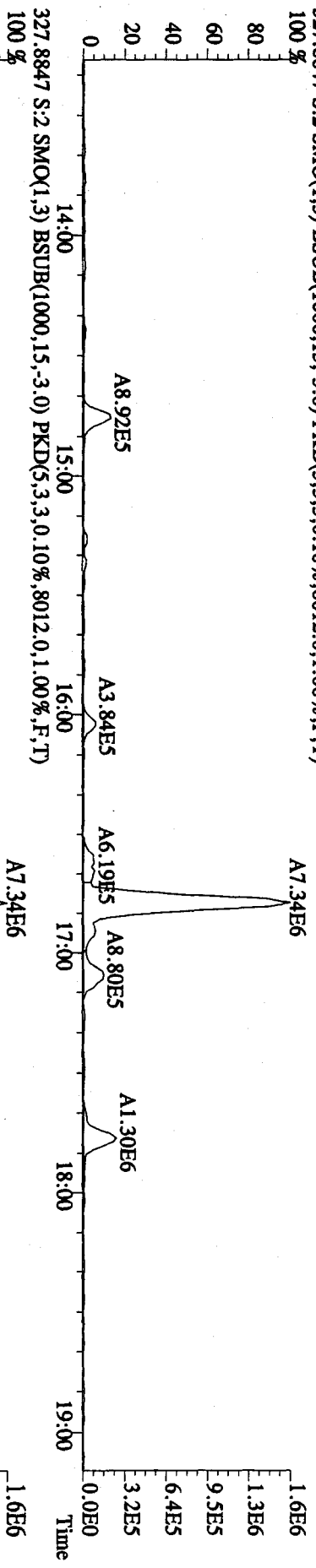
File:17DE091D5 #1-349 Acq:17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1217 :DB-5 CPSM 3732-04 Exp:DIOXIN
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,25260,0,1,00%,F,T)
 100 % A1.61E8



File:17DEC091D5 #1-349 Acq:17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1217 :DB-5 CPSM 3732-04 Exp:DIOXIN
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10140,0,1,00%,F,T)
 100 % A1.26E8



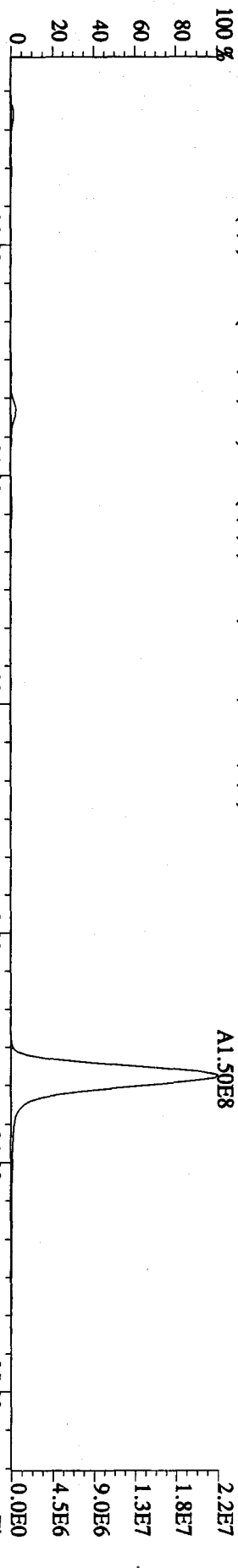
File:17DE091D5 #1-349 Acq:17-DEC-2009 09:29:27 GC:EI + Voltage SIR 70SE
 Sample#2 Text:CP1217 :DB-5 CPSM 3732-04 Exp:DIOXIN
 327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,8012.0,1.00%,F,T)



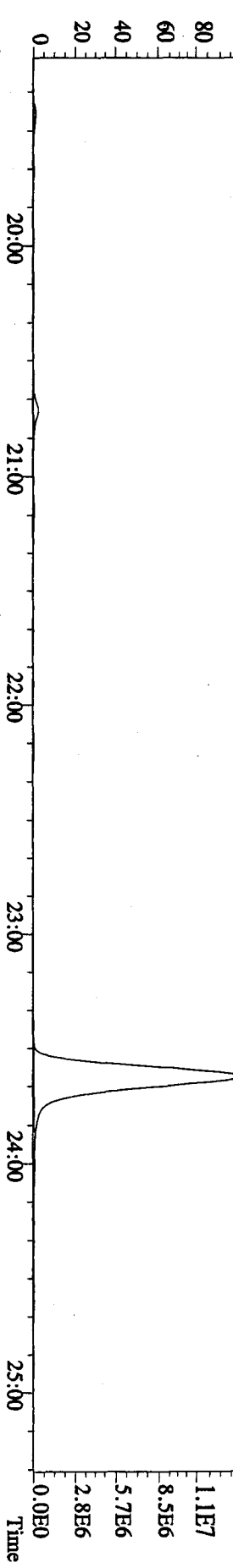
File:17DE091D5 #1-434 Acq:17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE

Sample#2 Text:CP1217 :DB-5 CPSM 3732-04 Exp:DIOXIN

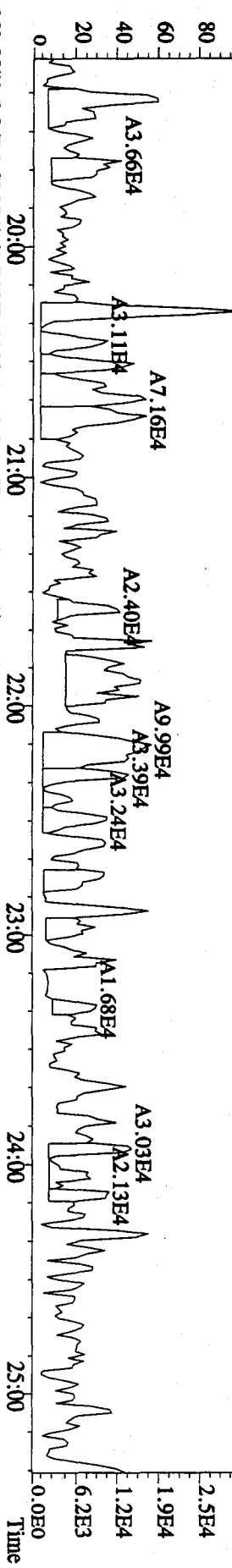
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,1.8884,0,1,00%,F,T)



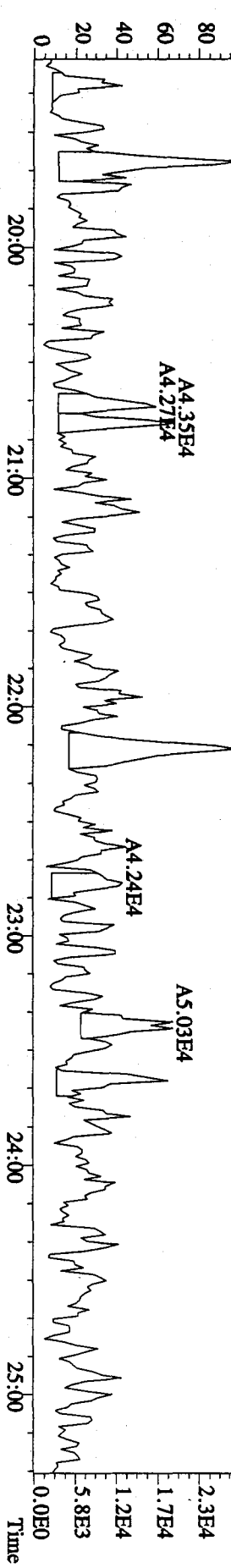
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,1.9436,0,1,00%,F,T)



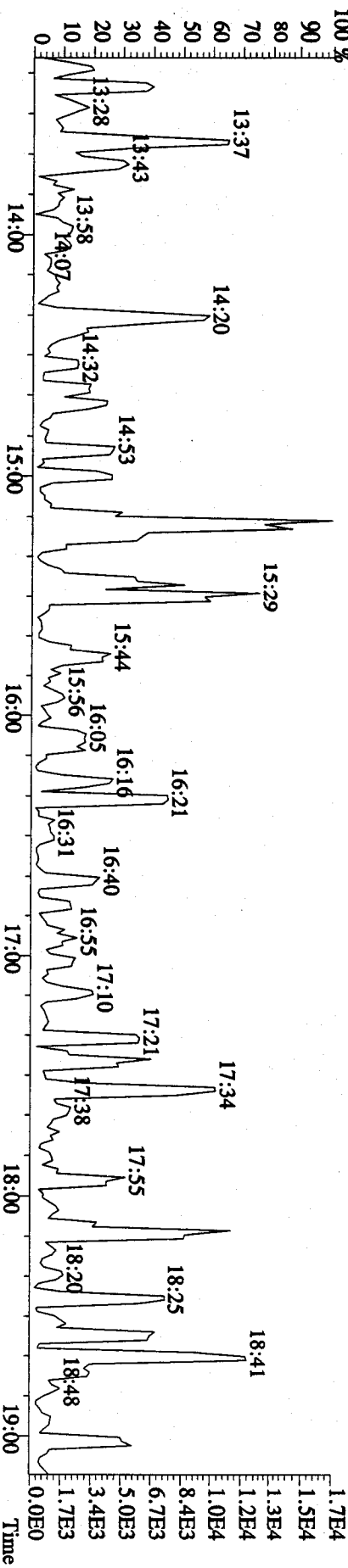
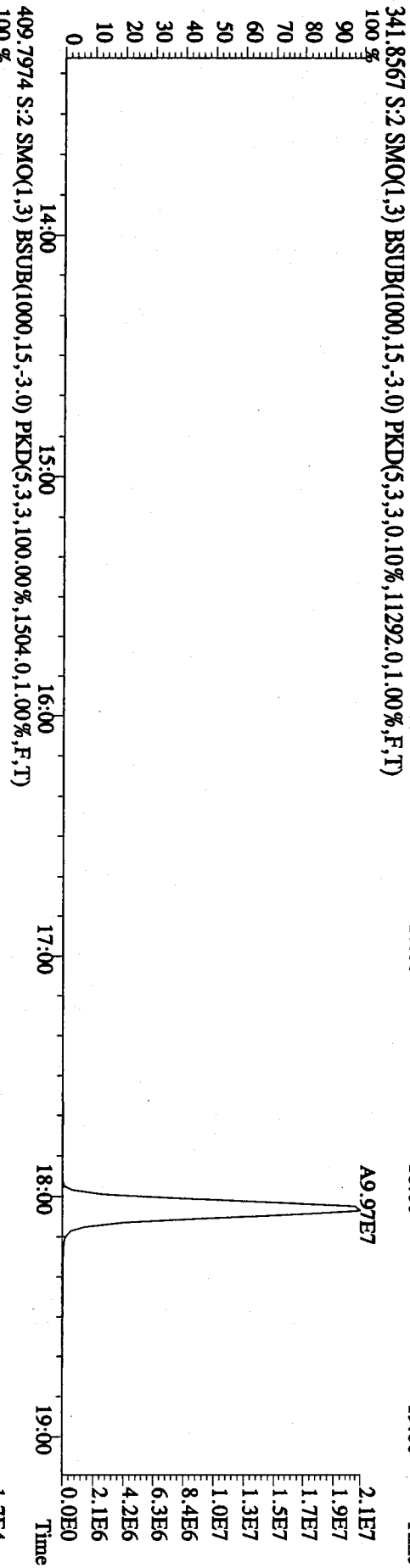
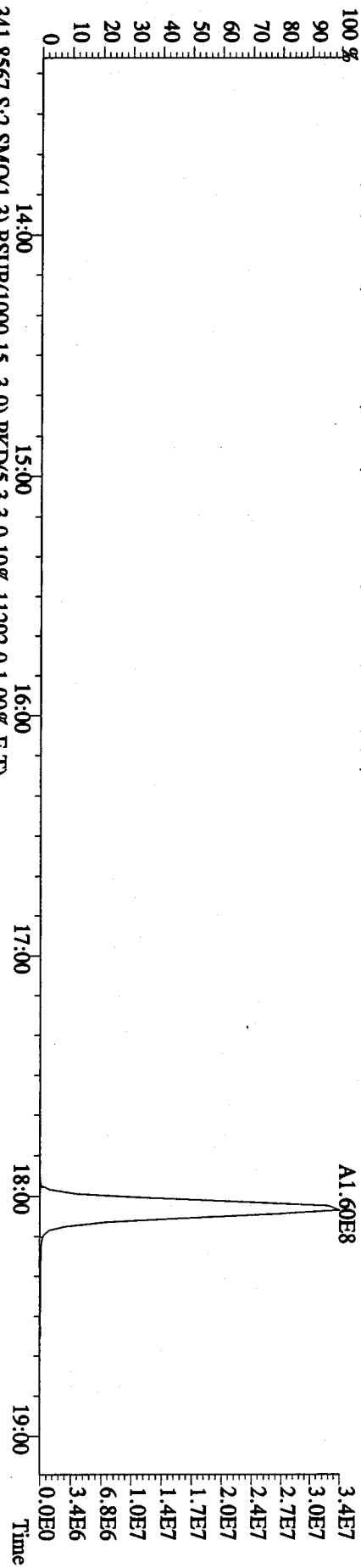
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,6.724,0,1,00%,F,T)



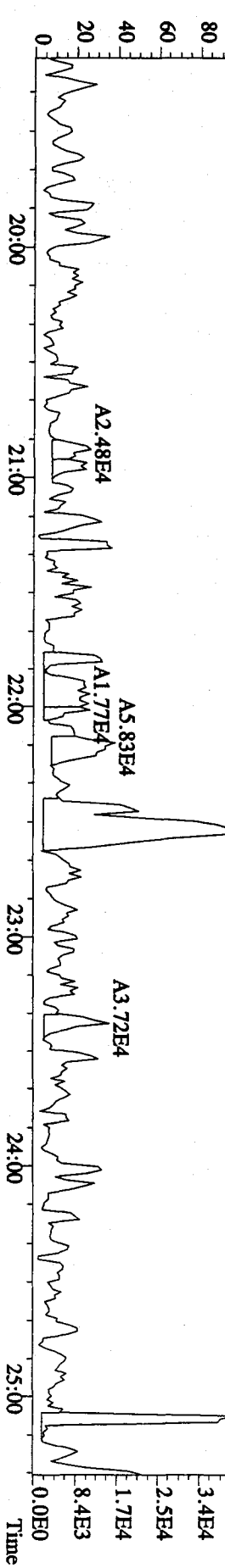
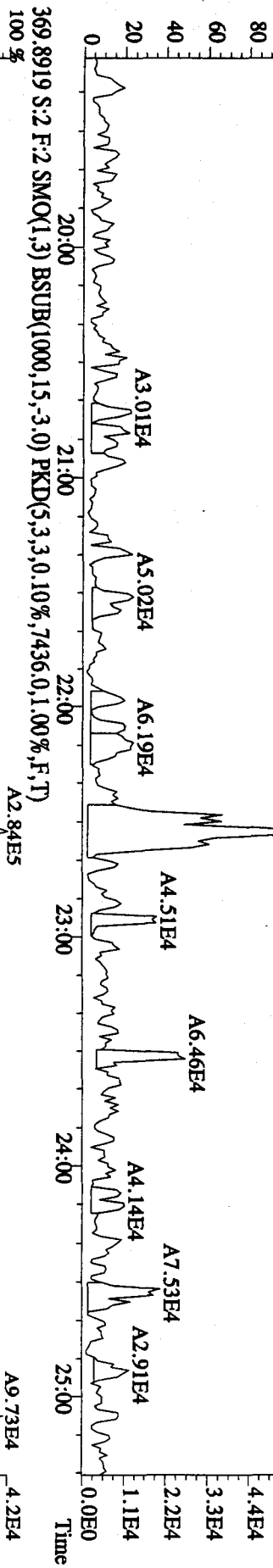
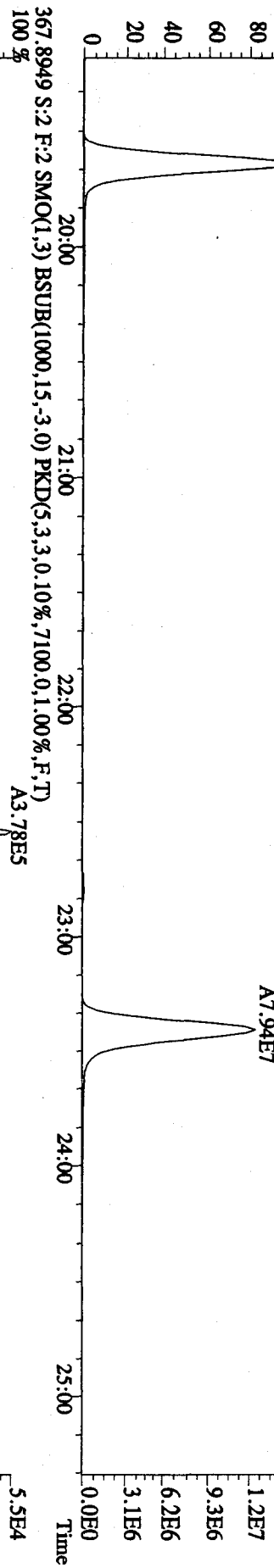
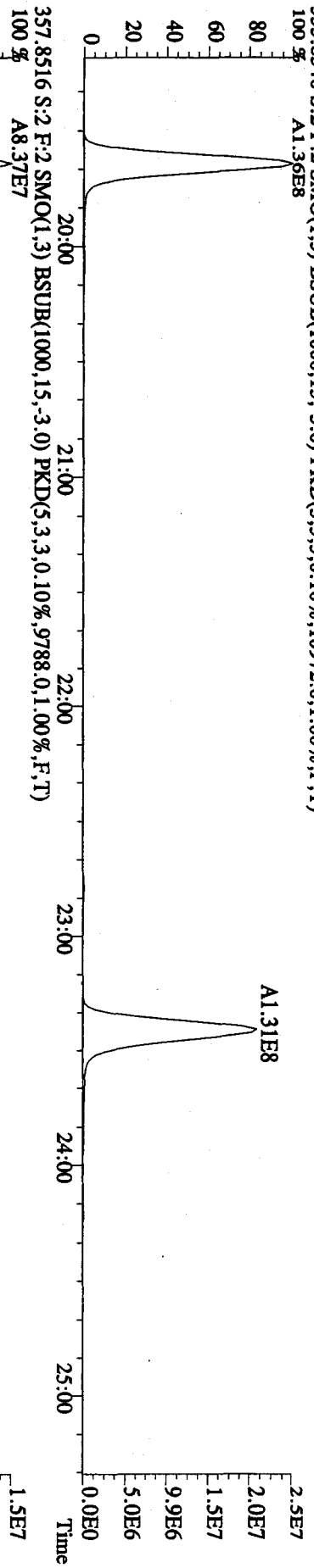
353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,7.740,0,1,00%,F,T)



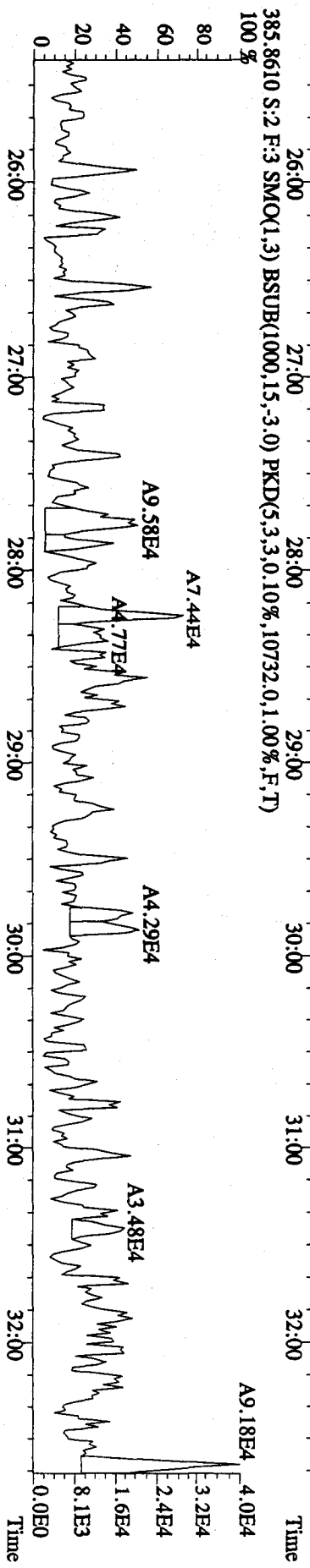
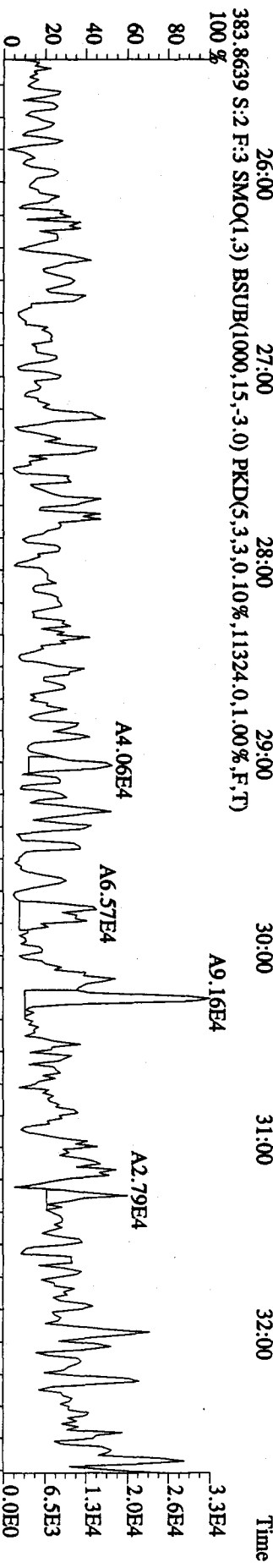
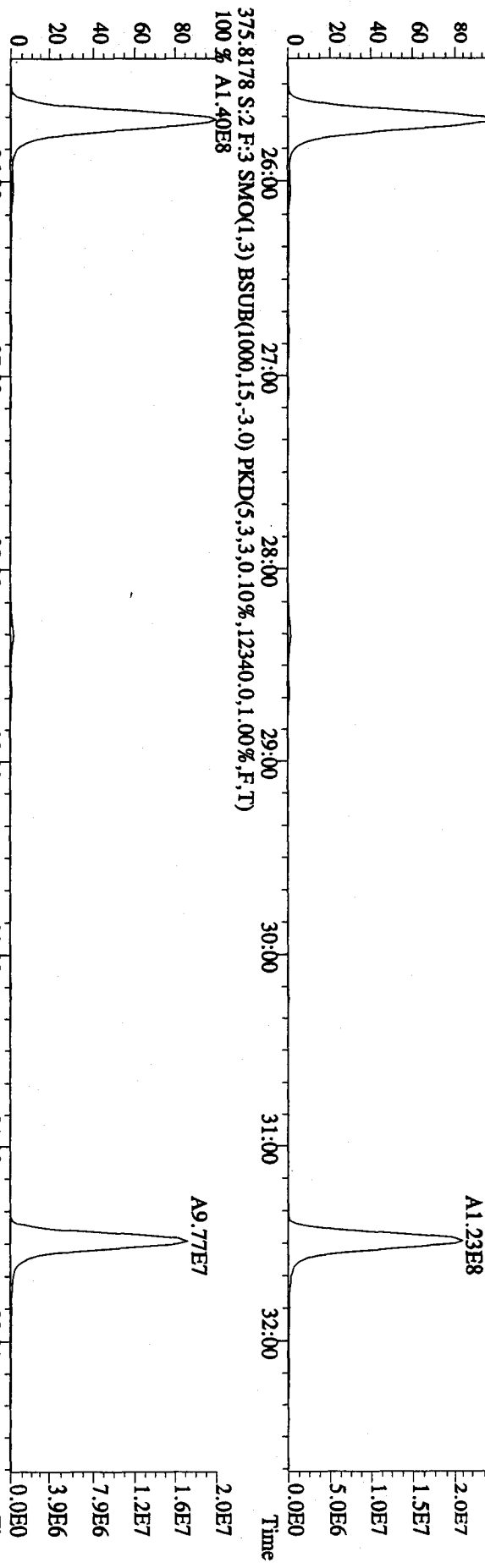
File: 17DE091D5 #1-349 Acq: 17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE
 Sample#2 Text: CP1217 :DB-5 CPSM 3732-04 Exp: DIOXIN
 339.8597 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13520.0,1.00%,F,T)



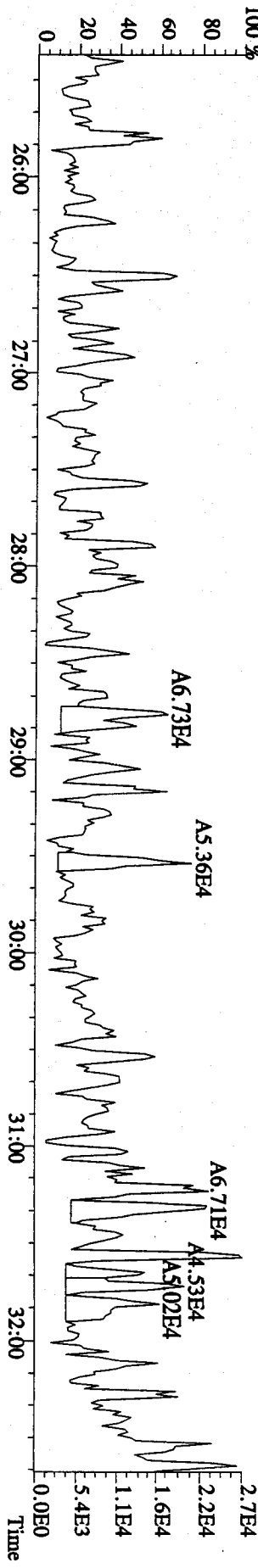
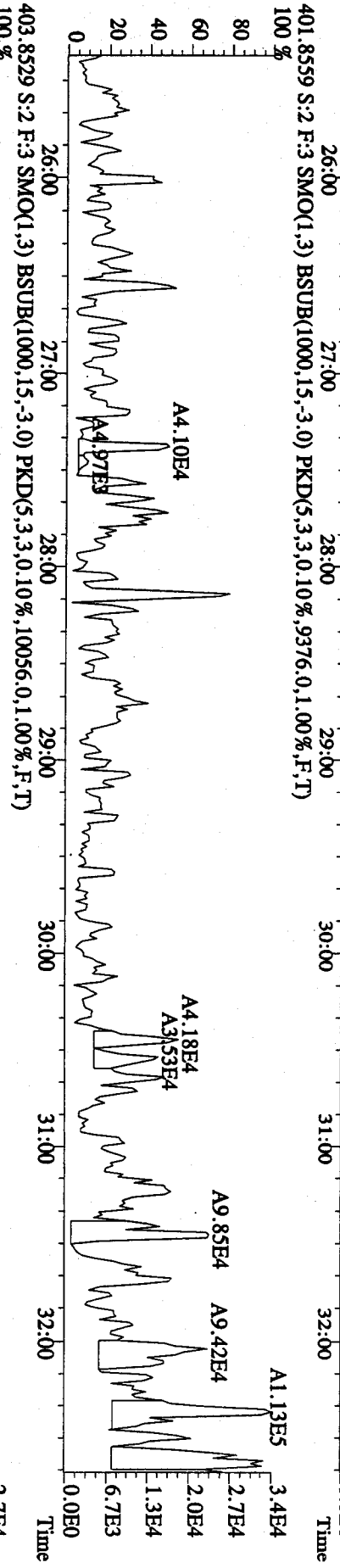
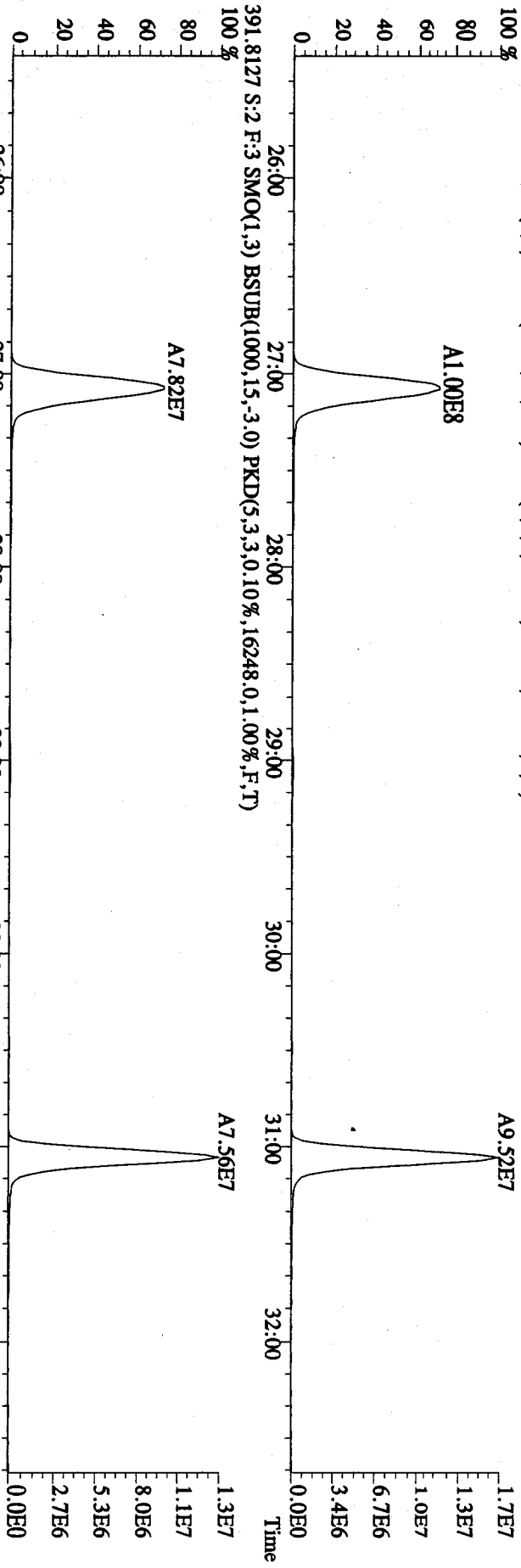
File:17DE091D5 #1-434 Acq:17-DEC-2009 09:29:27 GC EI + Voltage SIR 70SE
 Sample#2 Text:CP1217 :DB-5 CPSM 3732-04 Exp:DIOXIN
 355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,10972,0.1,00%,F,T)
 100% A1.36E8



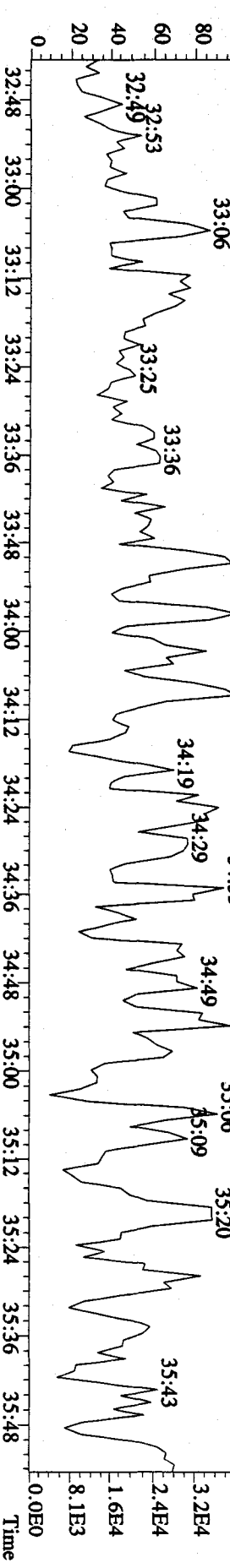
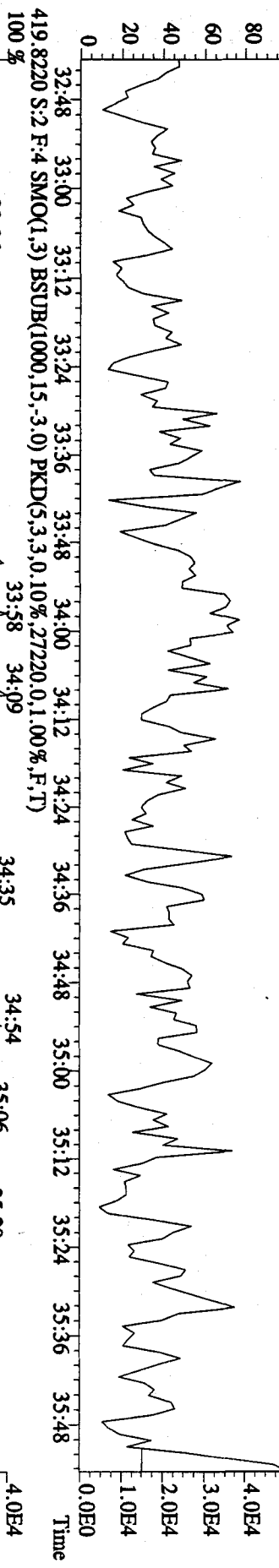
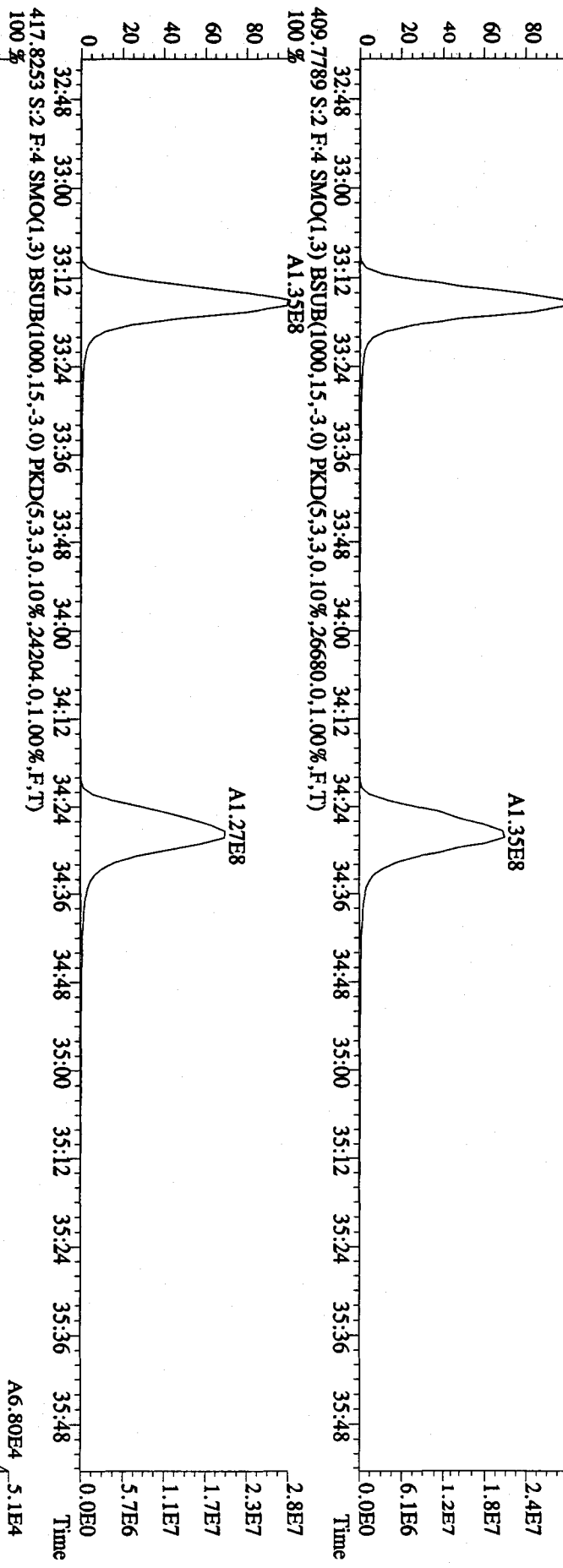
File:17DE091D5 #1-492 Acq:17-DEC-2009 09:29:27 GC EI + Voltage SIR 70SE
 Sample#2 Text:CP1217 :DB-5 CP5M 3732-04 Exp:DI0XIN
 373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,17020,0.1,0.00%,F,T)
 100% A1.77E8



File: 17DE091D5 #1-492 Acq: 17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE
 Sample#2 Text: CP1217 : DB-5 CPSM 3732-04 Exp: DIOXIN
 389.8157 S:2 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5488.0,1.00%,F,T)
 100%



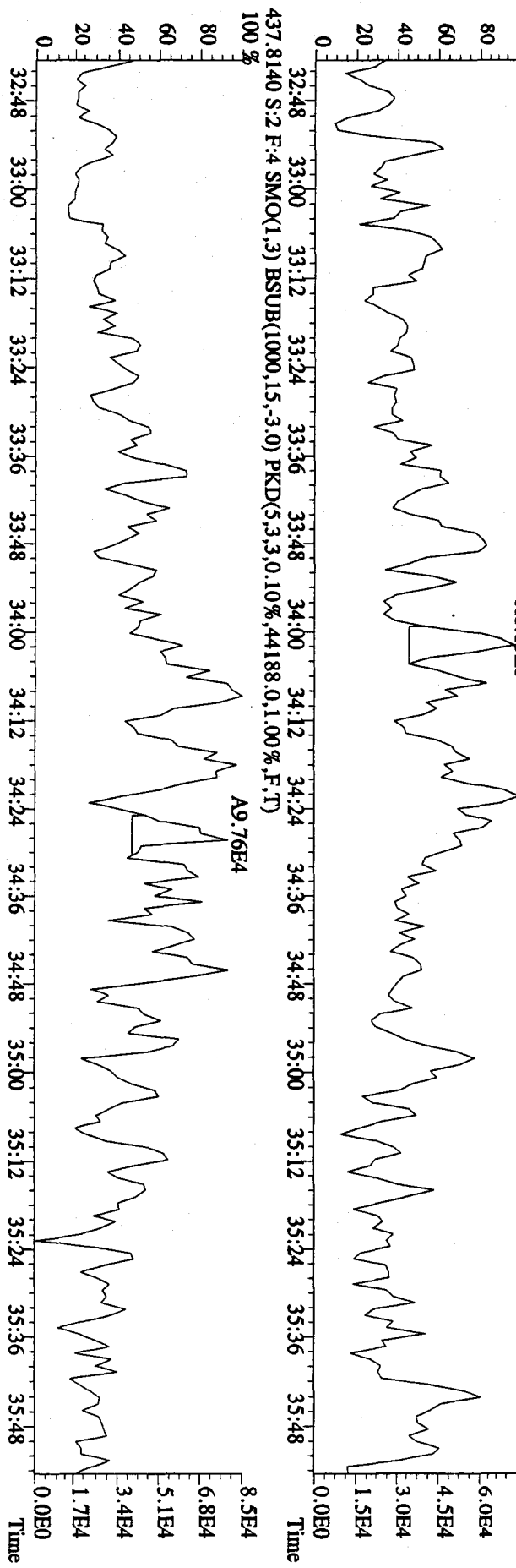
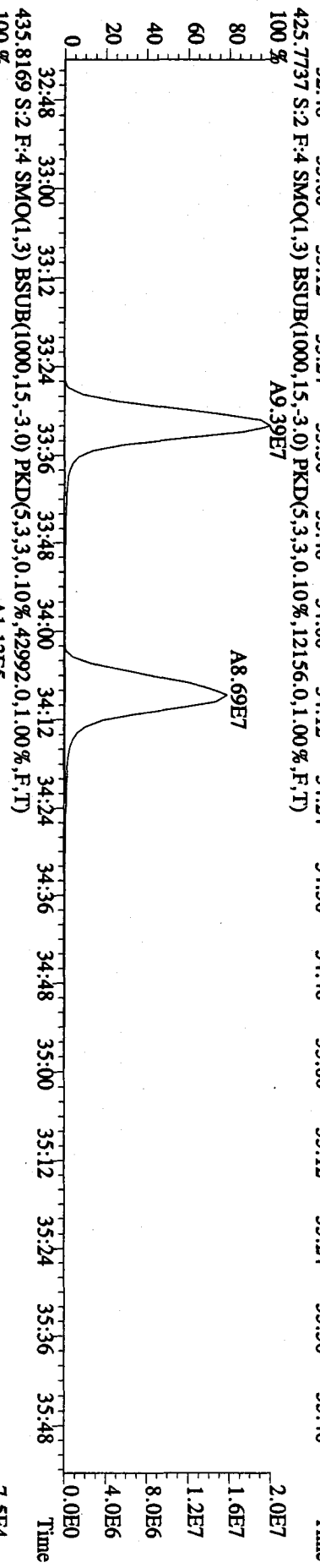
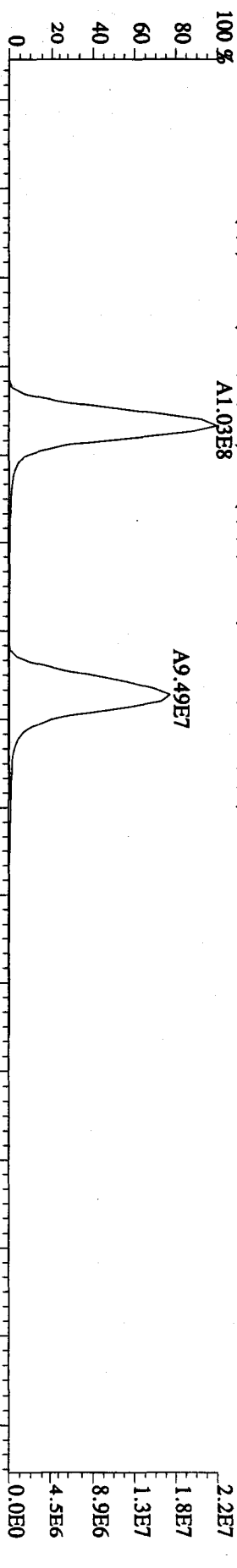
File: 17DE091D5 #1-226 Acq: 17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE
 Sample#2 Text: CP1217 :DB-5 CPSM 3732-04 Exp: DIOXIN
 407.7818 S:2 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,30400,0,1,00%,F,T)
 100%



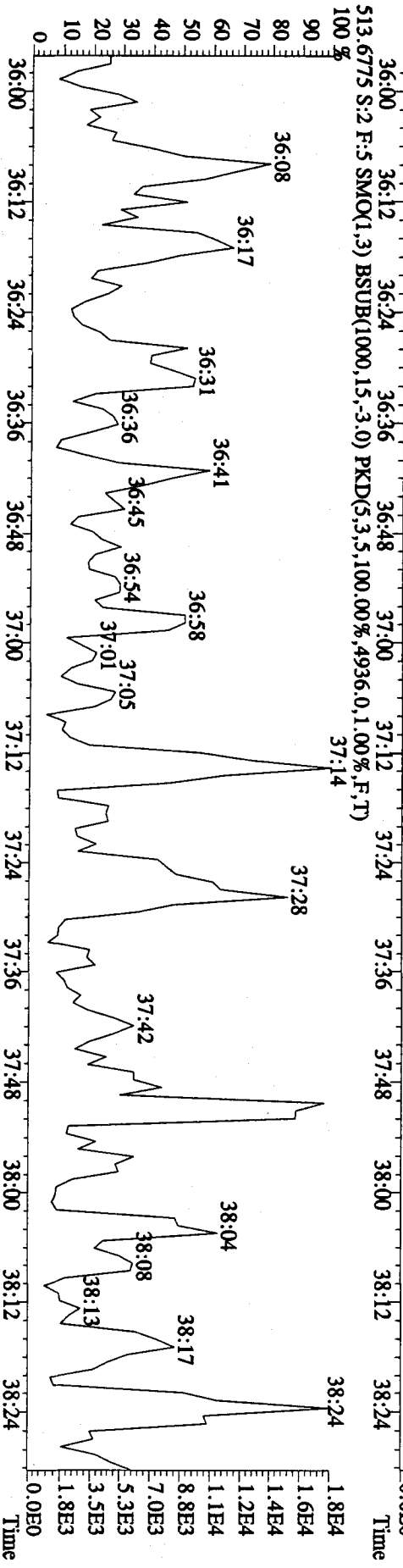
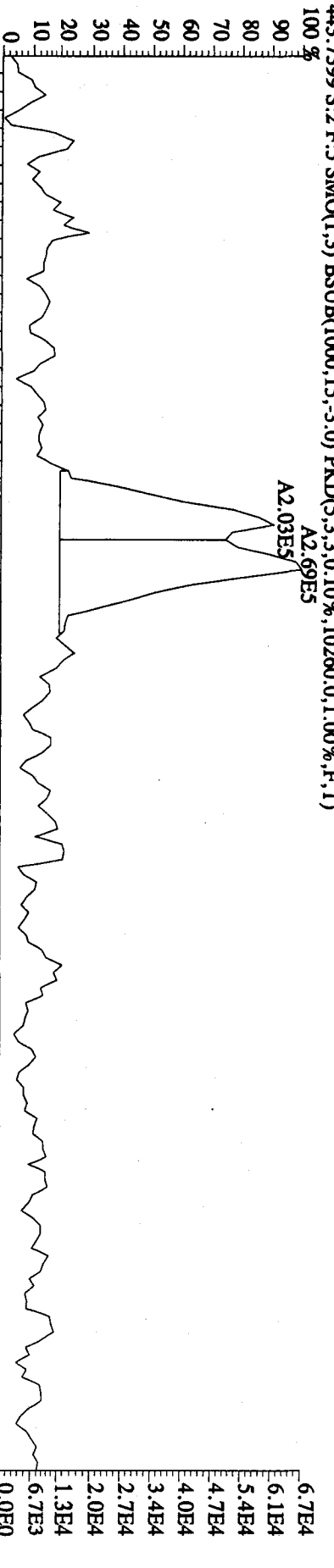
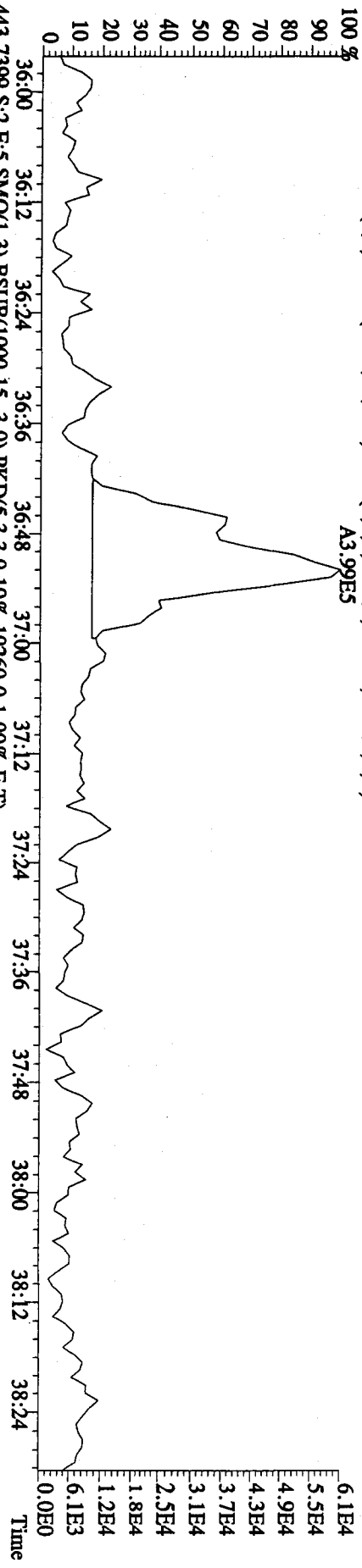
File:17DE091D5 #1-226 Acq:17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE

Sample#2 Text:CP1217 :DB-5 CPSM 3732-04 Exp:DIOXIN

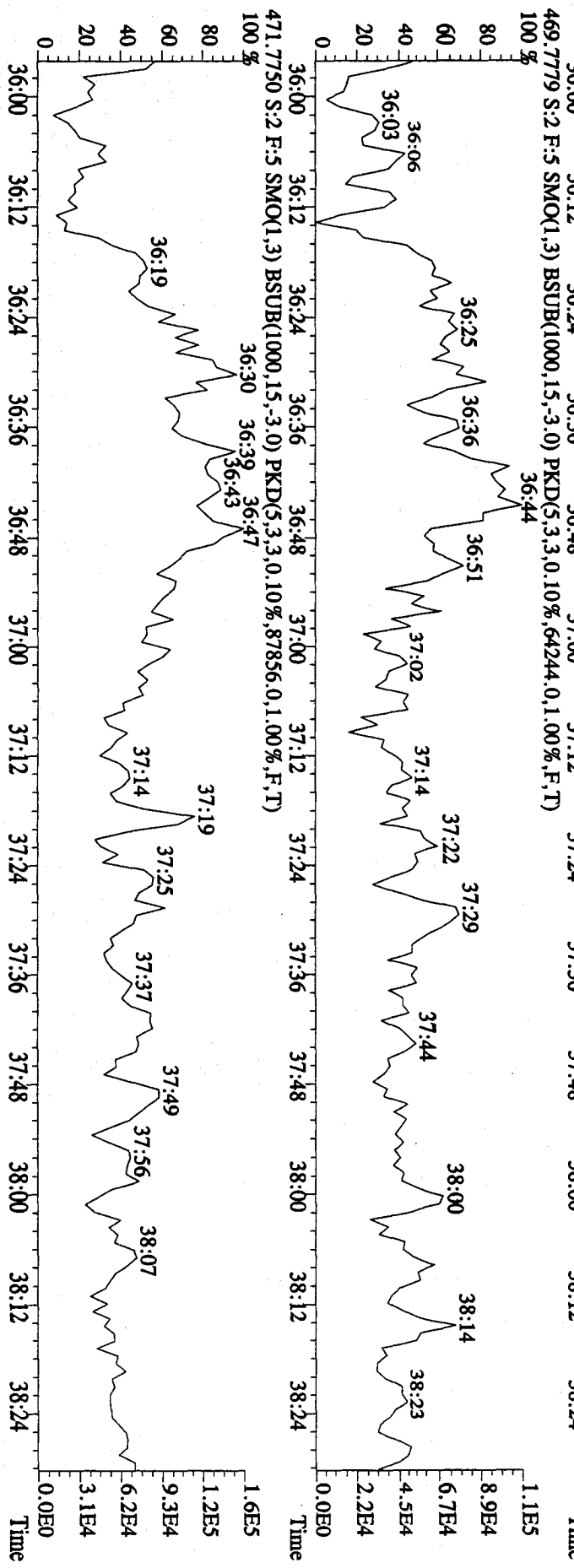
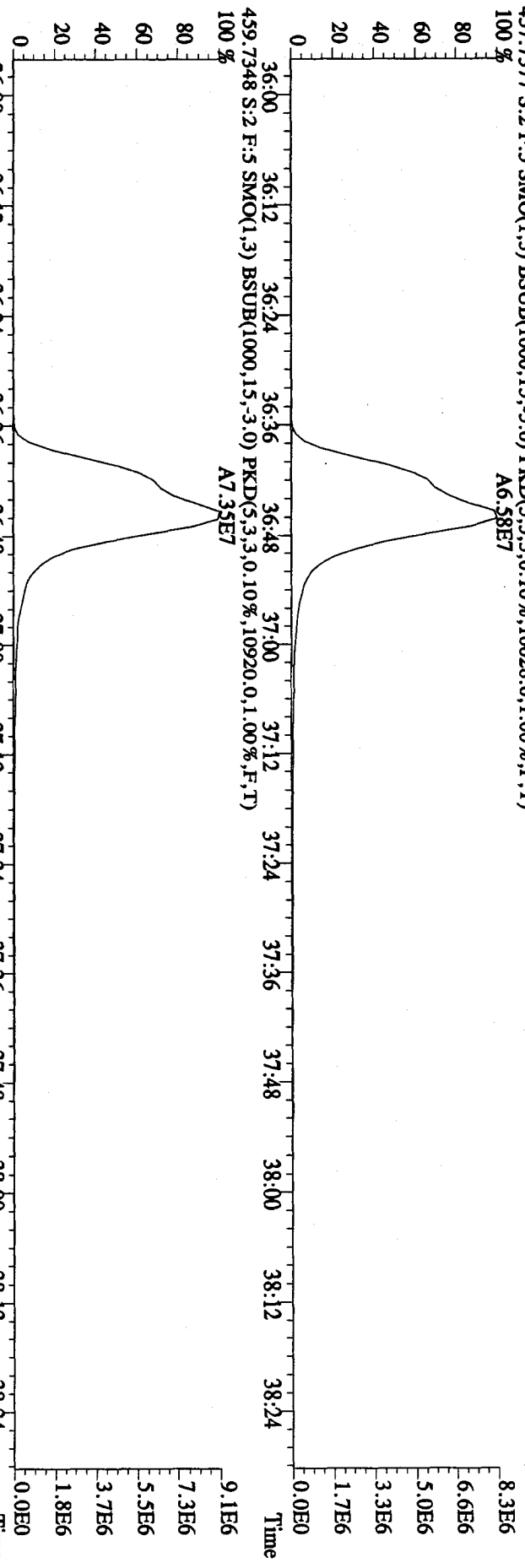
423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20972.0,1.00%,F,T)



File: 17DE091D5 #1-186 Acq: 17-DEC-2009 09:29:27 GC EI + Voltage SIR 70SE
 Sample#2 Text: CP1217 :DB-5 CPSM 3732-04 Exp: DIOXIN
 441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8844,0,1,00%,F,T)
 100% A3.99E5



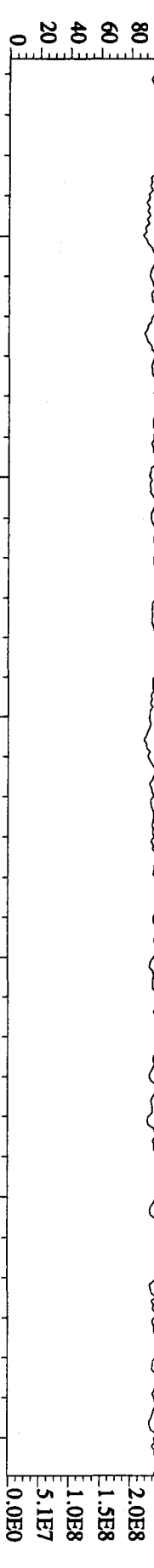
File:17DE091D5 #1-186 Acq:17-DEC-2009 09:29:27 GC EI + Voltage SIR 70SE
 Sample#2 Text:CP1217 :DB-5 CP5M 3732-04 Exp:DIOXIN
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10028,0,1.00%,F,T)
 100% A6.58E7



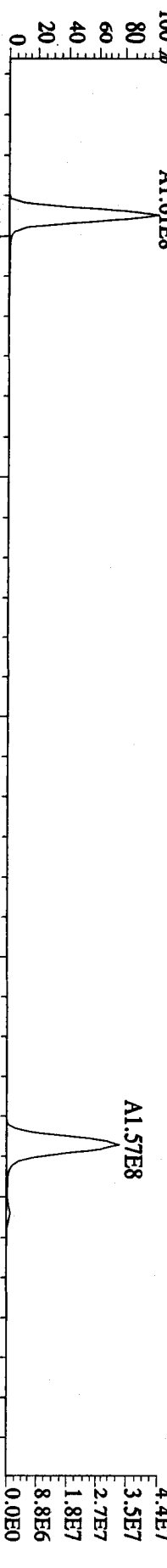
File:17DE091D5 #1-349 Acq:17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE

Sample#2 Text:CP1217 :DB-5 CPSM 3732-04 Exp:DIOXIN

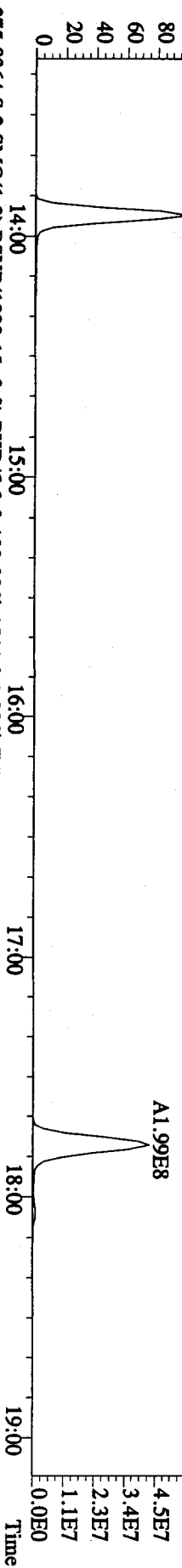
292.9825 S:2 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



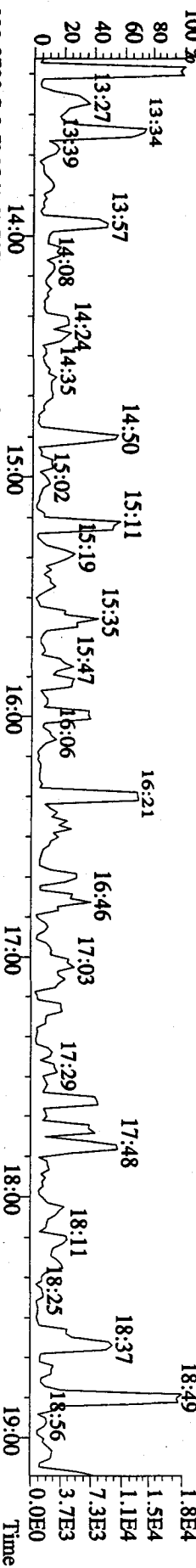
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,25260,0,1.00%,F,T)



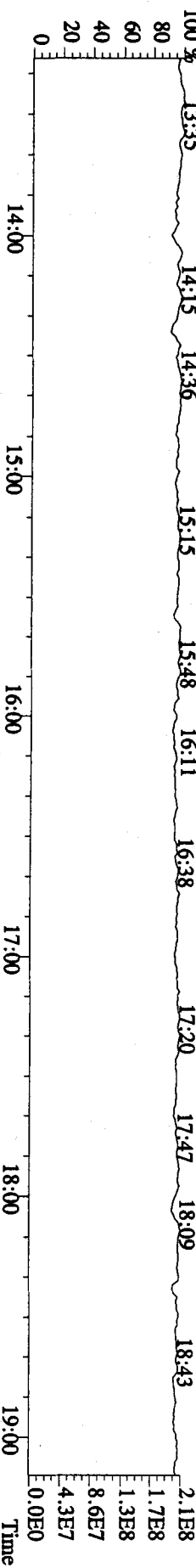
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,26240,0,1.00%,F,T)



375.8364 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1544,0,1.00%,F,T)



330.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)

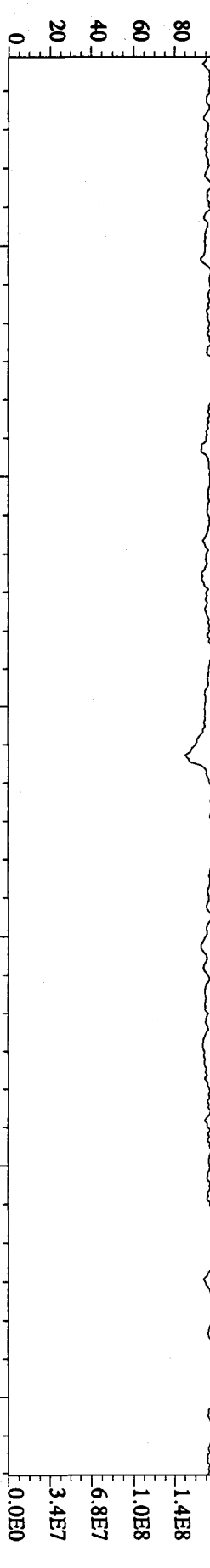


File:17DE091D5 #1-434 Acq:17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE

Sample#2 Text:CP1217 :DB-5 CPSM 3732-04 Exp:DIOXIN

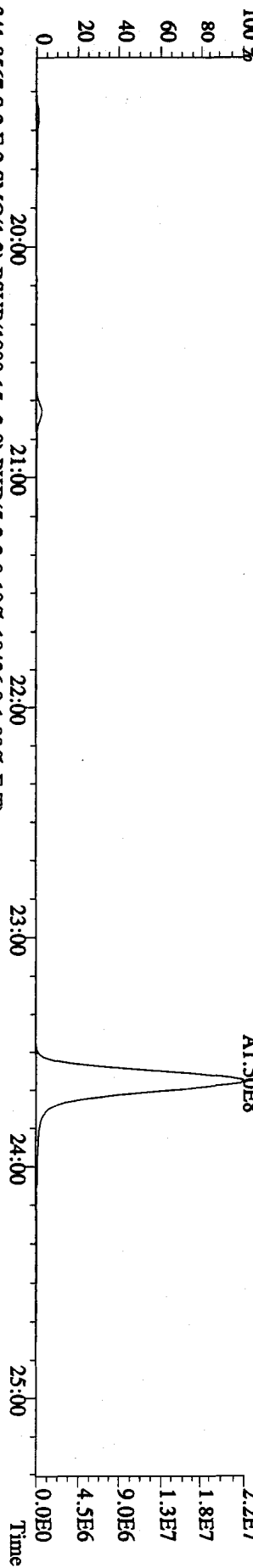
342.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100 % 19:45 20:07 20:33 20:59 21:19 21:46 22:38 23:11 23:46 24:21 24:39 25:10 1.7E8



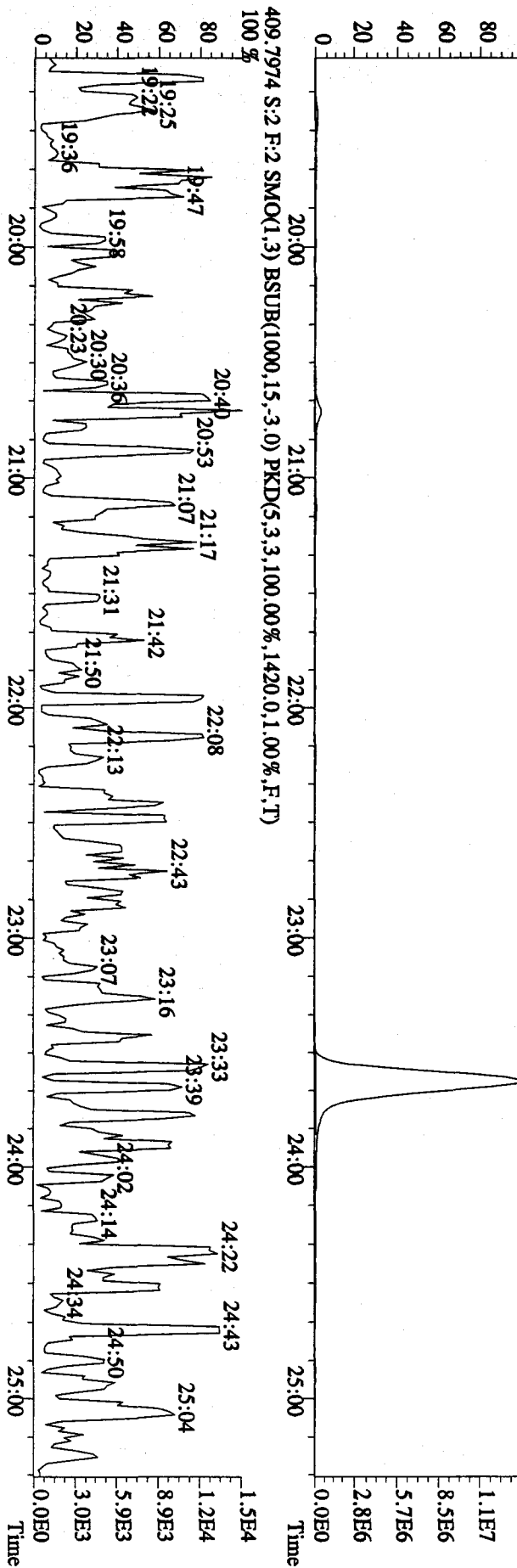
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,18884,0,1.00%,F,T)

100 % 2.2E7 1.8E7 1.3E7 9.0E6 4.5E6 0.0E0

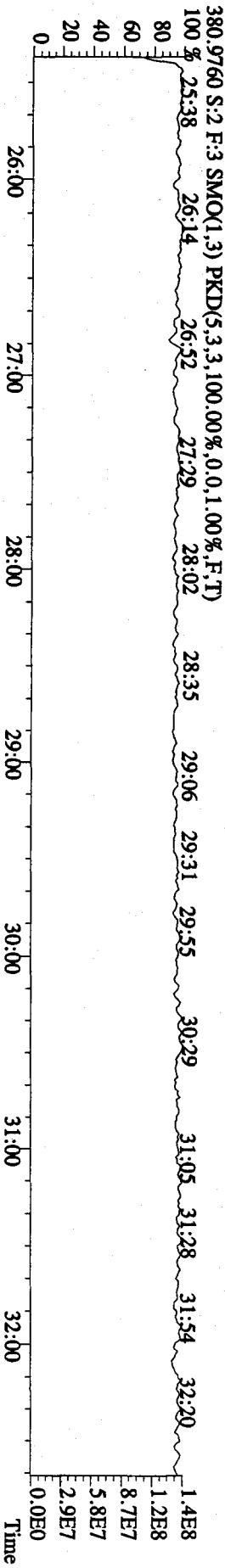
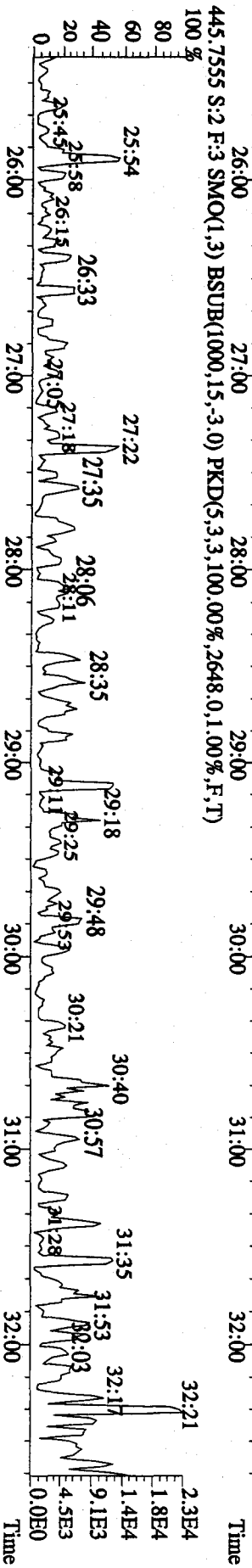
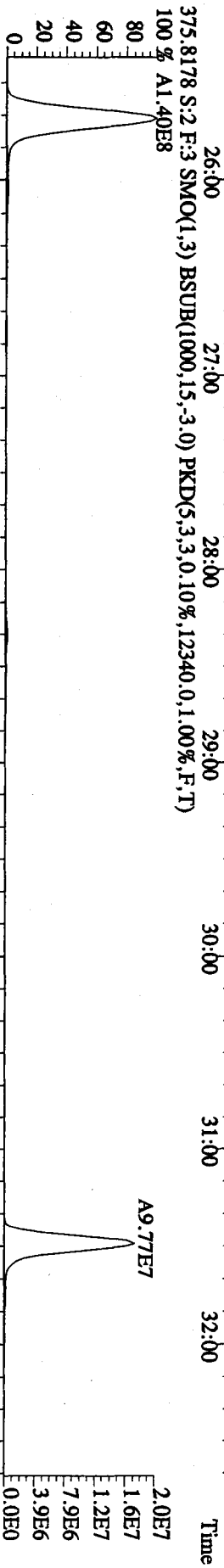
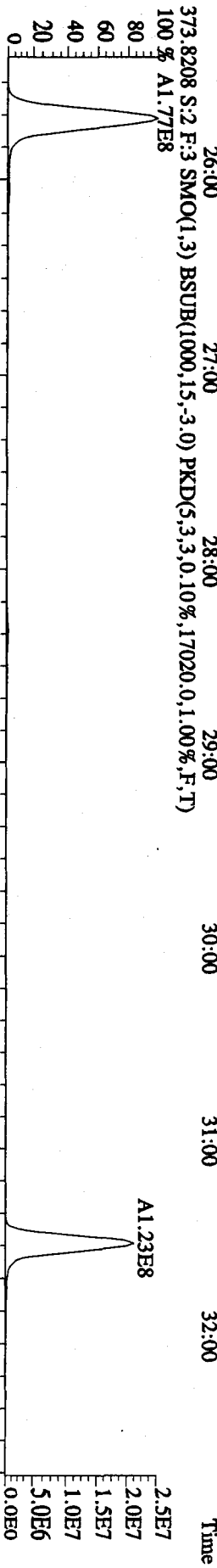
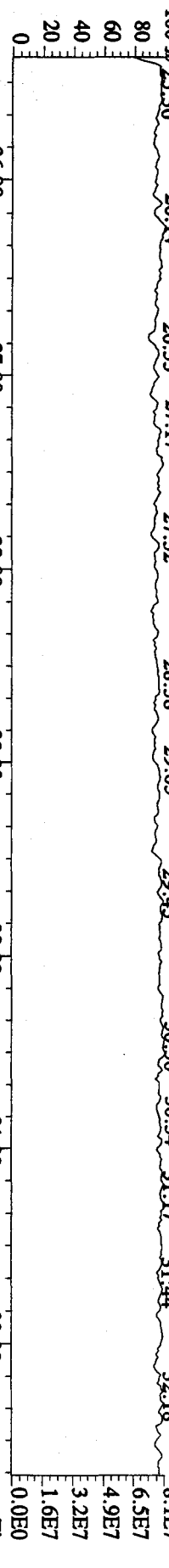


341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,19436,0,1.00%,F,T)

100 % 1.4E7 1.1E7 8.5E6 5.7E6 2.8E6 0.0E0



File:17DE091D5 #1-492 Acq:17-DEC-2009 09:29:27 GC EI + Voltage SIR 70SE
 Sample#2 Tent:CP1217 :DB-5 CPSM 3732-04 Exp:DIOXIN

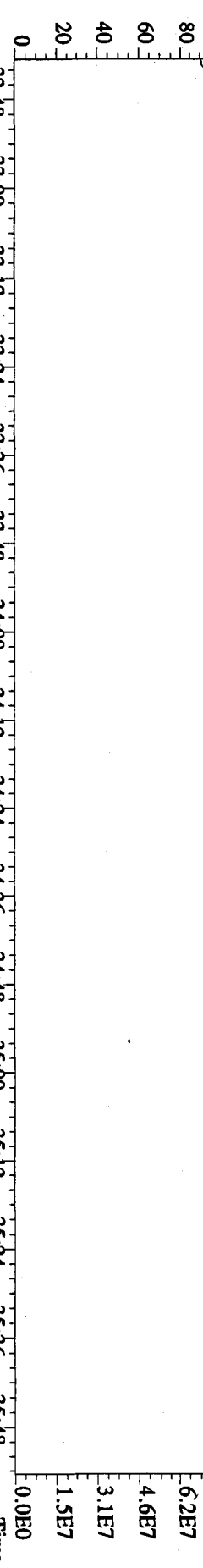


File:17DE091D5 #1-226 Acq:17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE

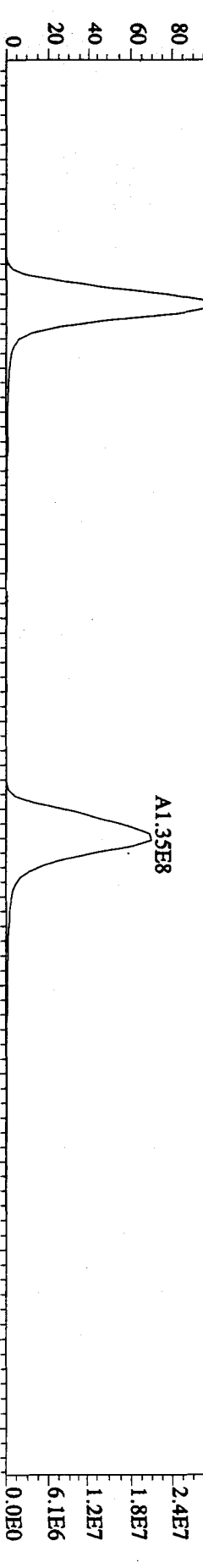
Sample#2 Text:CP1217 :DB-5 CP5M 3732-04 Exp:DIOXIN

430.9728 S:2.F:4.SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

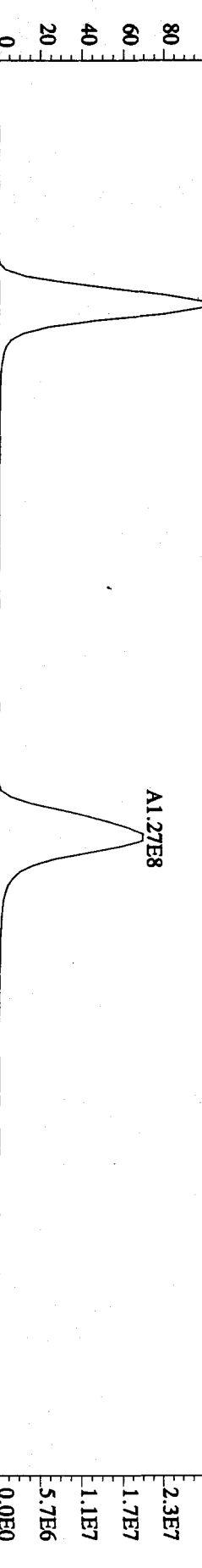
100% 32:51 33:05 33:25 33:44 34:07 34:18 34:33 34:53 35:12 35:22 35:47



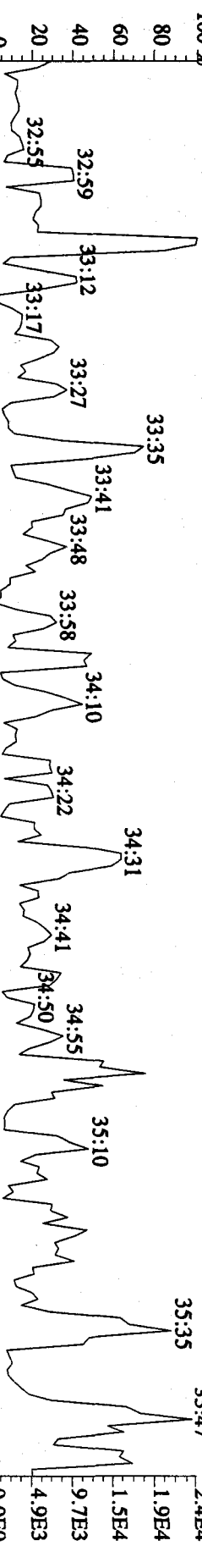
407.7818 S:2.F:4.SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,30400.0,1.00%,F,T)



409.7789 S:2.F:4.SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26680.0,1.00%,F,T)



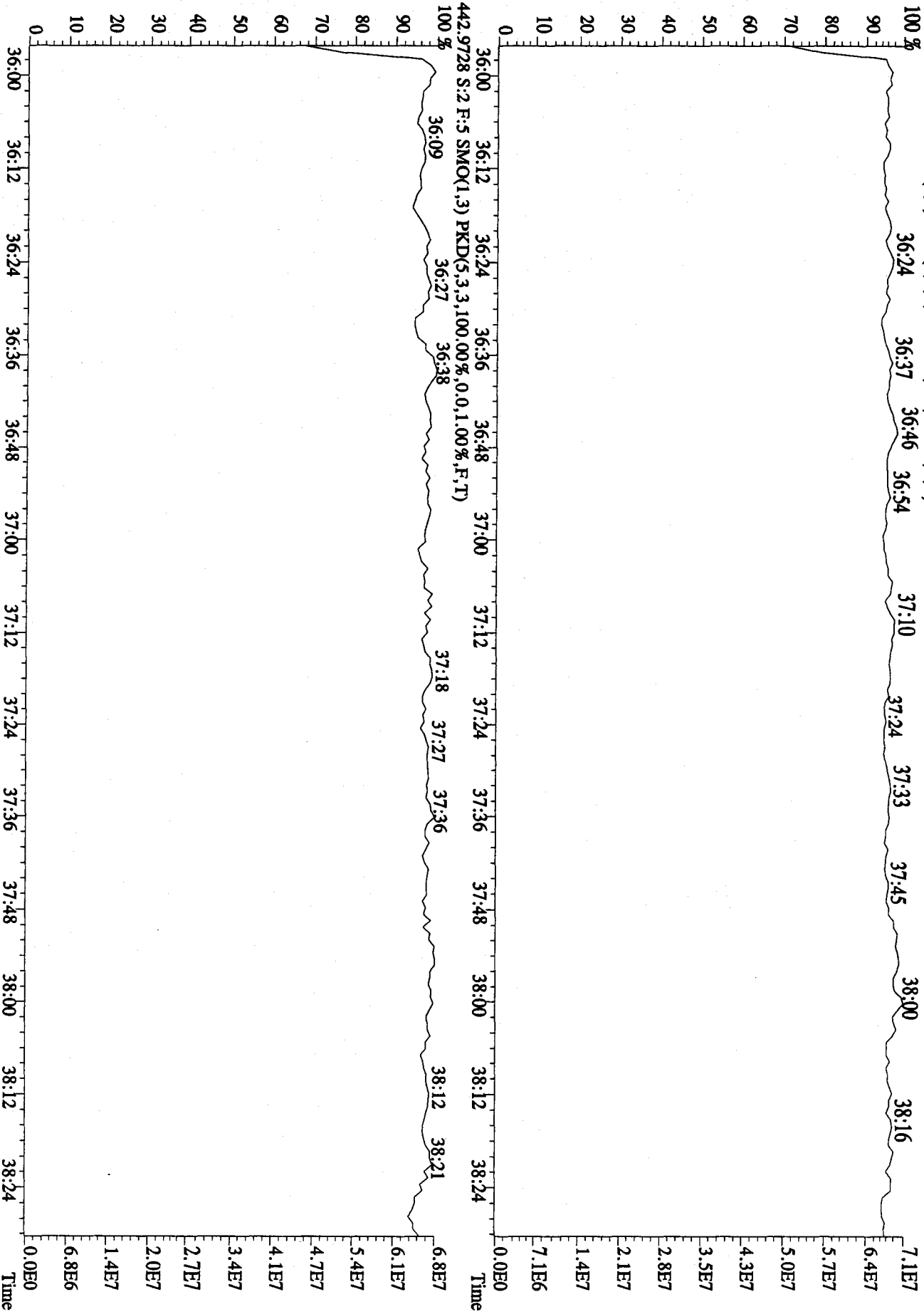
479.7165 S:2.F:4.SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,7820.0,1.00%,F,T)



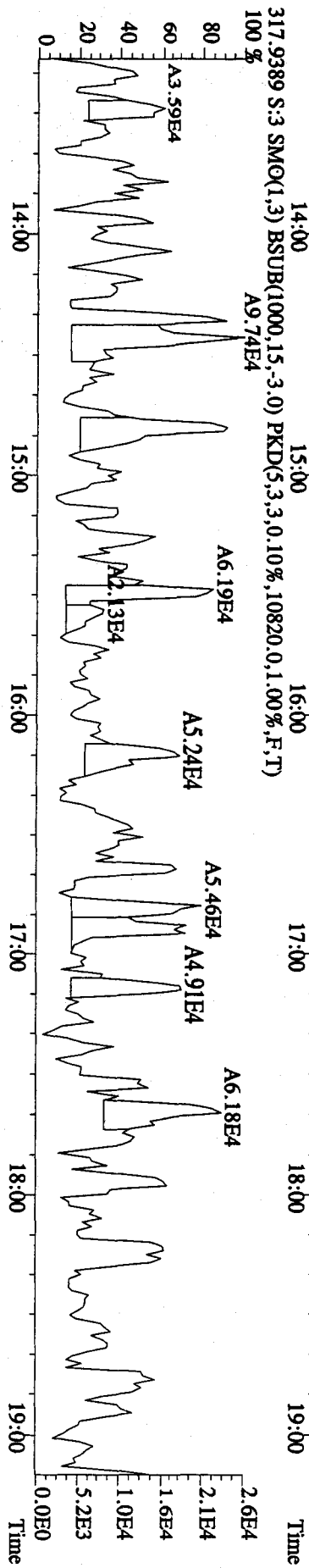
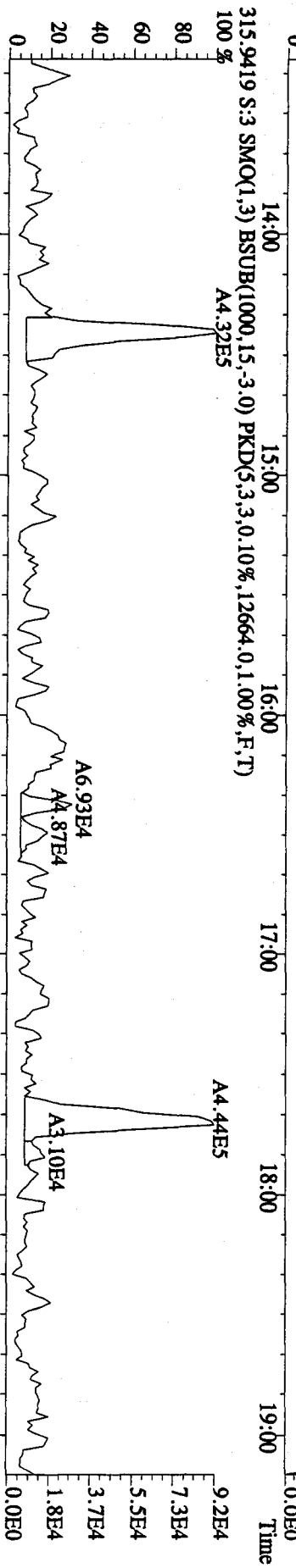
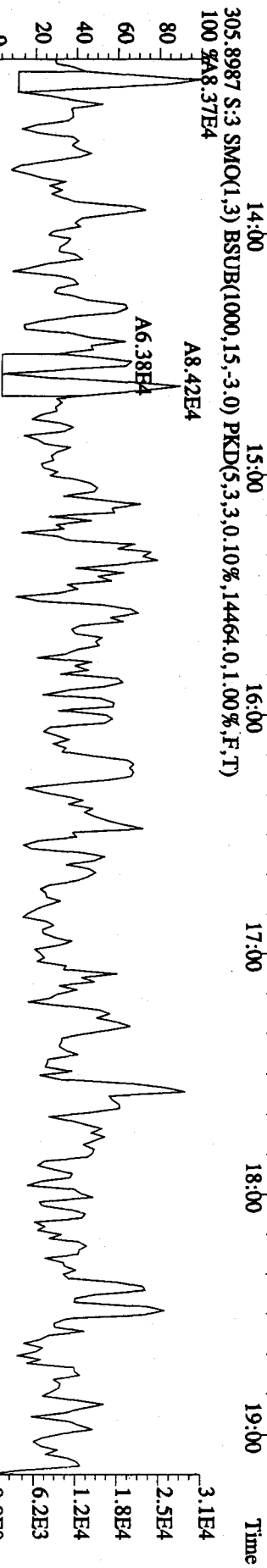
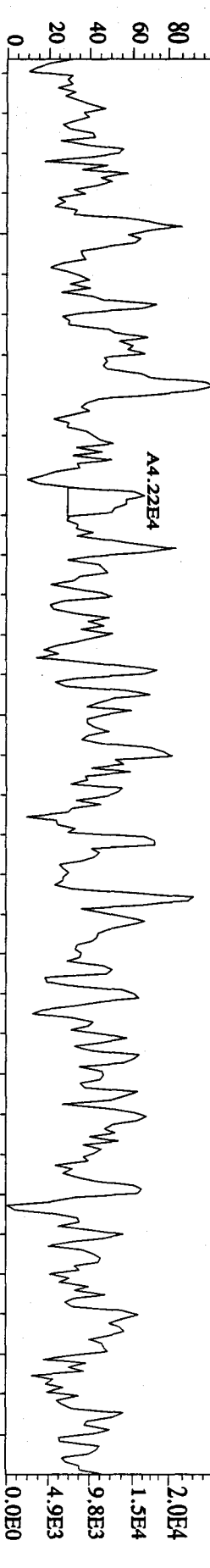
File: 17DEC091D5 #1-186 Acq: 17-DEC-2009 09:29:27 GC EI+ Voltage SIR 70SE

Sample# 2 Text: CP1217 : DB-5 CPSM 3732.04 Exp: DIOXIN

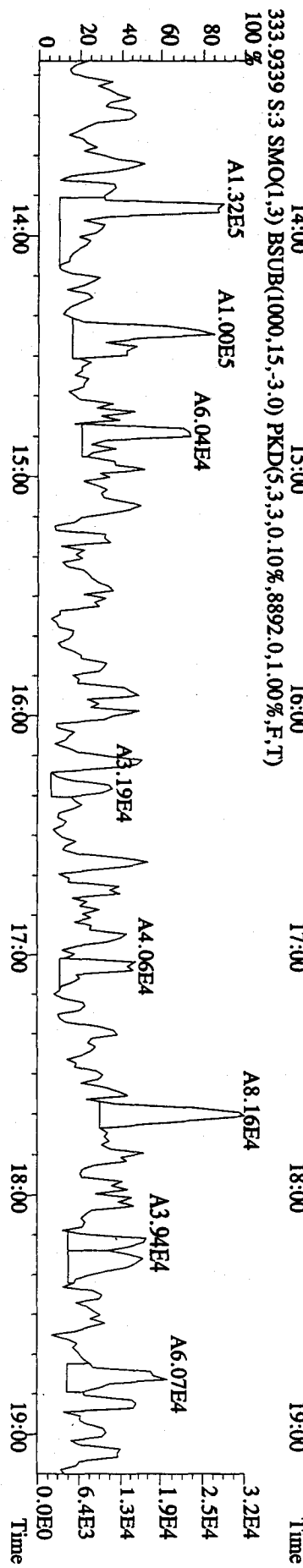
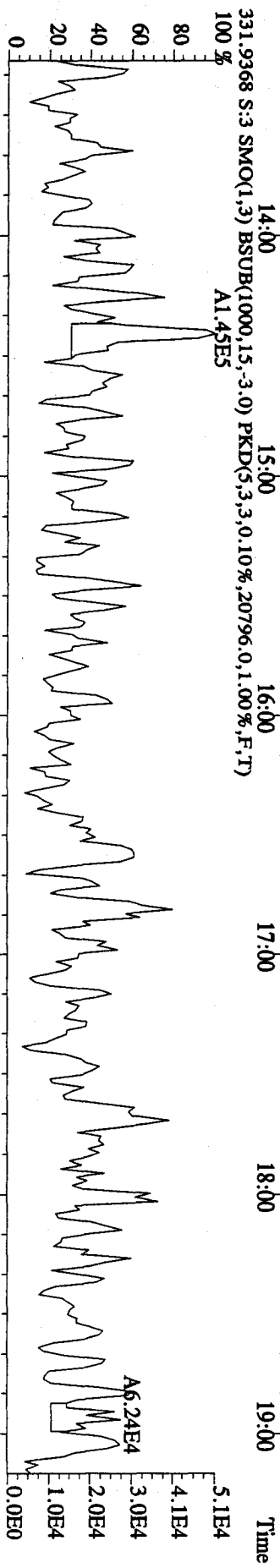
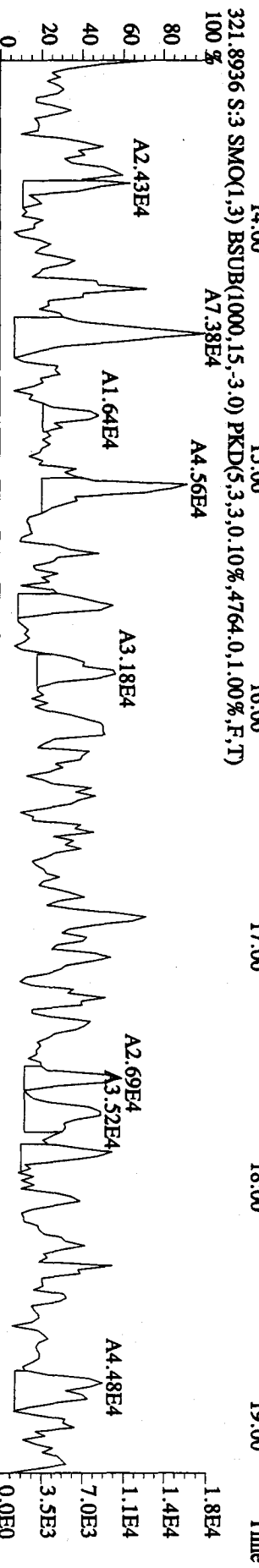
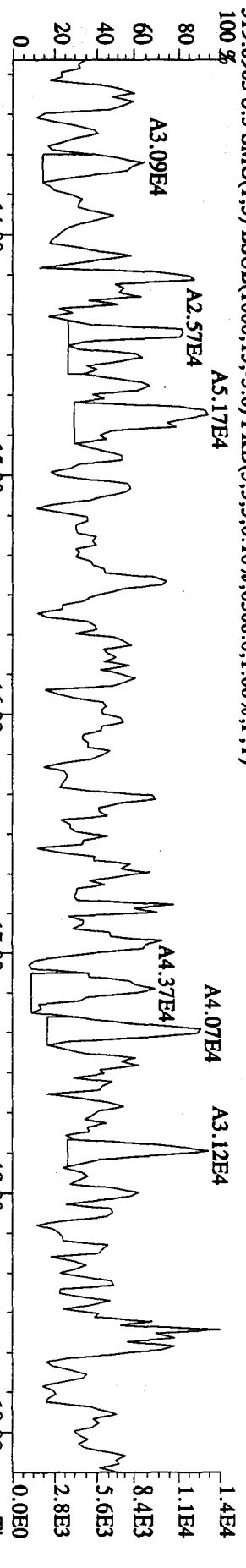
454.9728 S: 2 F: 5 SMO(1.3) PKD(5.3, 3.100.00%, 0.0, 1.00%, F, T)



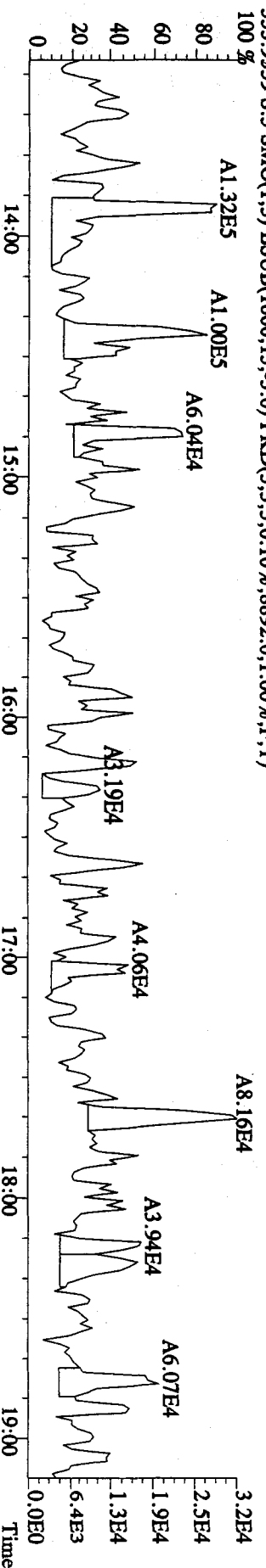
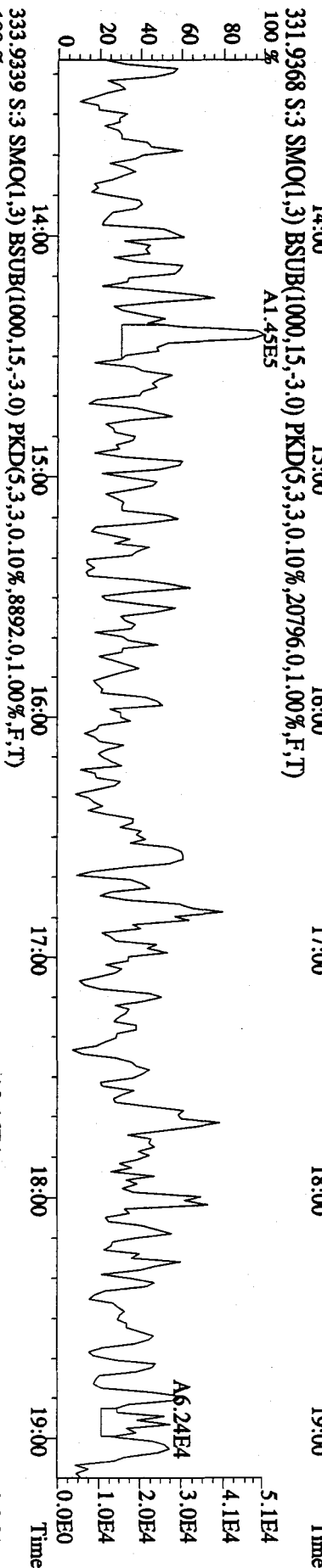
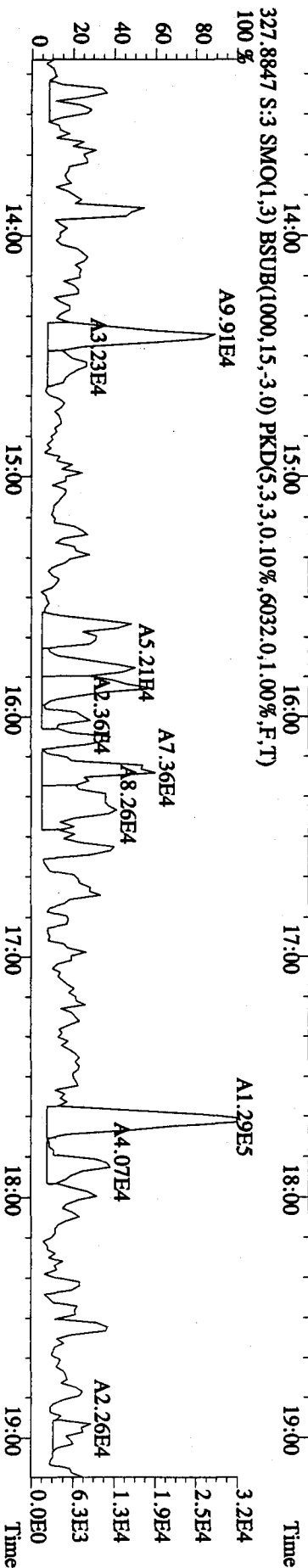
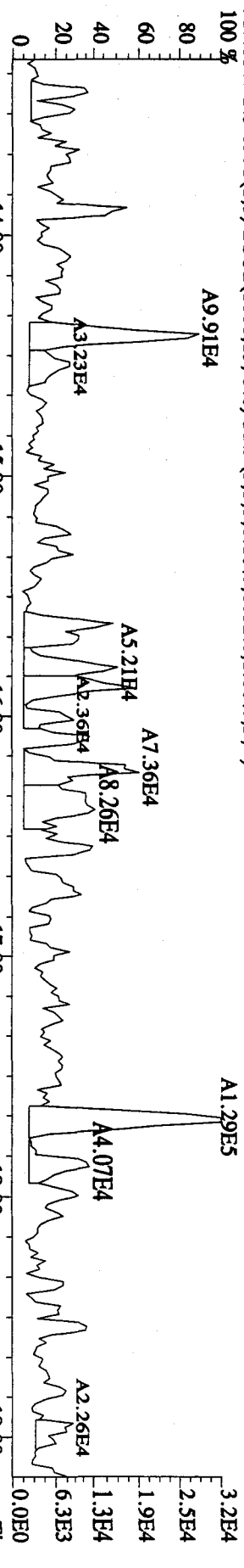
File: 17DE091D5 #1-349 Acq: 17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE
 Sample#3 Text: SB1217 : Solvent Blank C-14 Exp: DIOXIN
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,13048,0,1,00%,F,T)
 100 %



File:17DE091D5 #1-349 Acq:17-DEC-2009 10:11:17 GC EI + Voltage SIR 70SE
 Sample#3 Text:SB1217 :Solvent Blank C-14 Exp:DIOXIN
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6508.0,1.00%,F,T)



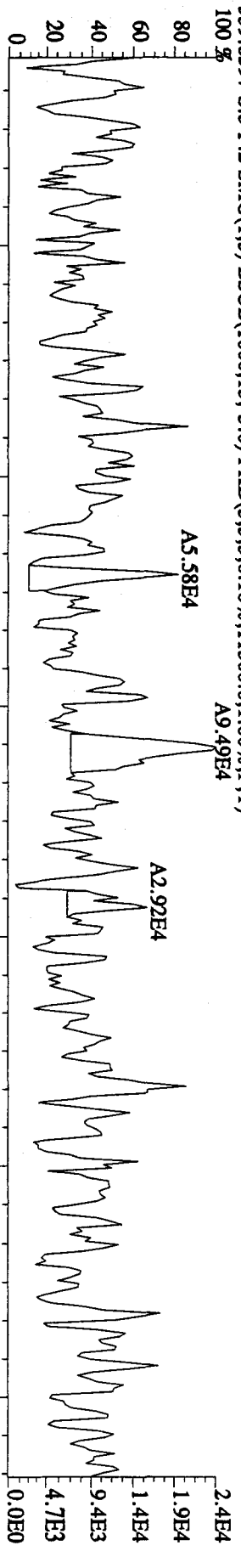
File:17DEC09ID5 #1-349 Acq:17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1217 :Solvent Blank C-14 Exp:DIOXIN
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6032,0,1,00%,F,T)



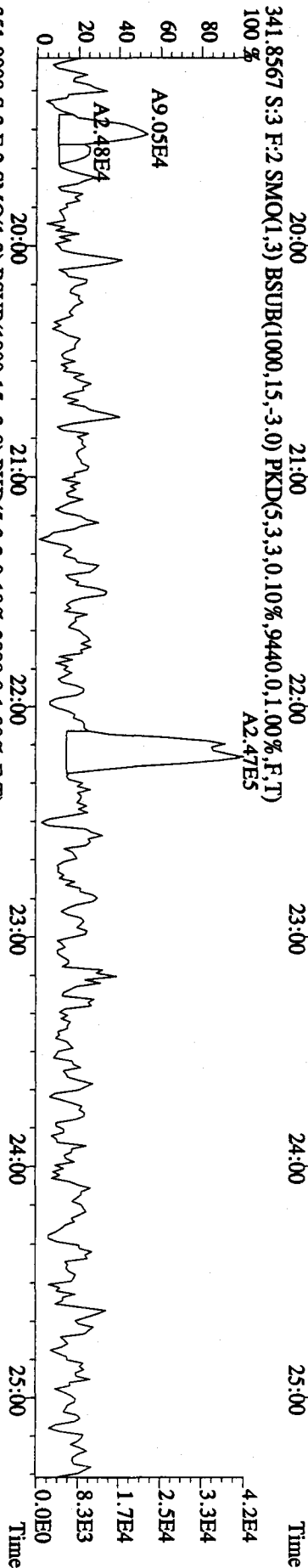
File:17DE091D5 #1-434 Acq:17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB1217 :Solvent Blank C-14 Exp:DIOXIN

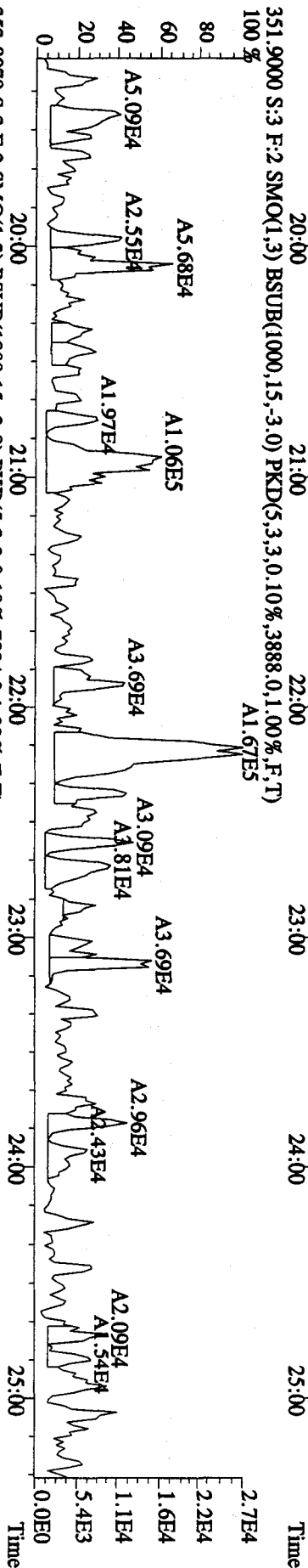
339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,11300,0.1,00%,F,T)



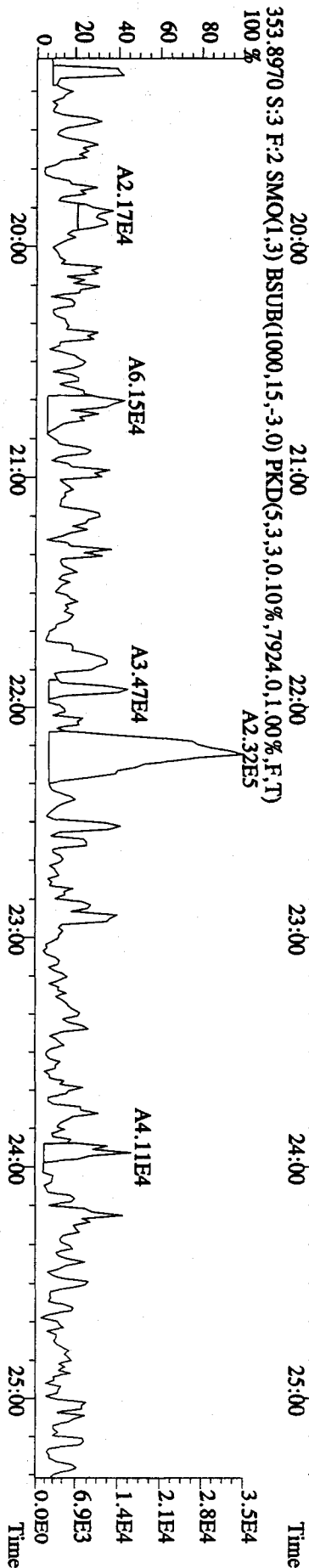
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9440,0.1,00%,F,T)



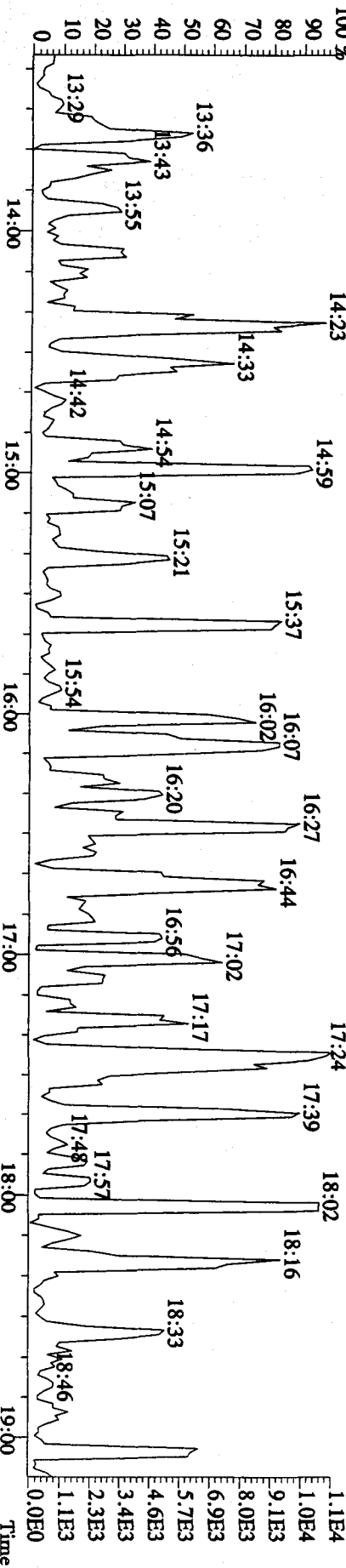
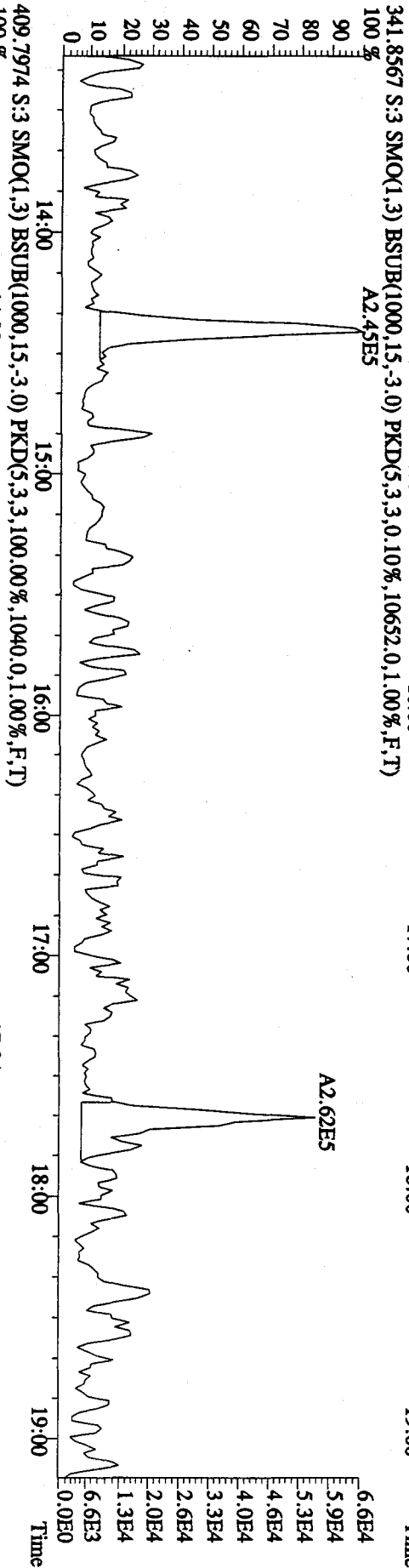
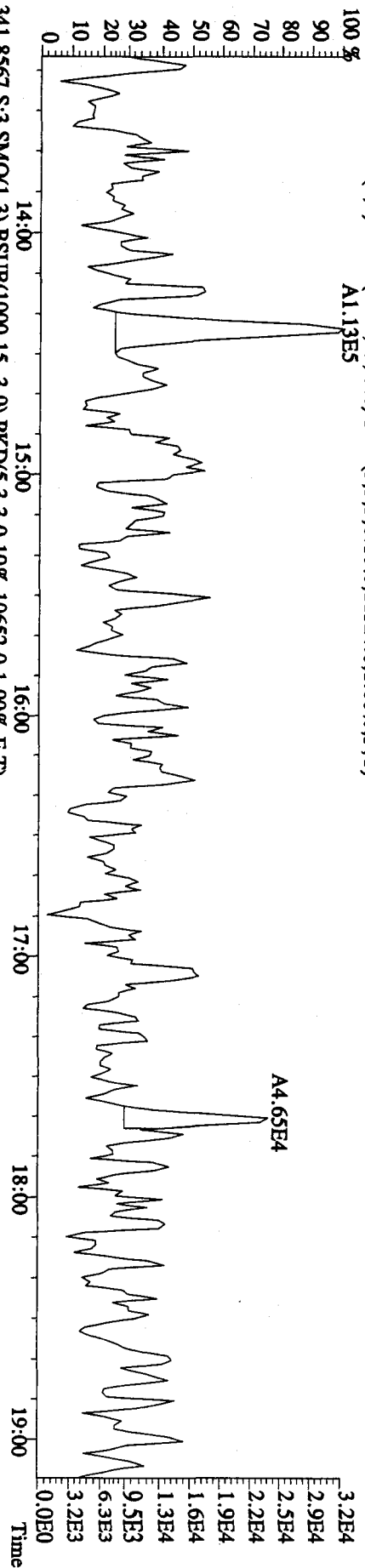
351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,3888,0.1,00%,F,T)



353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7924,0.1,00%,F,T)



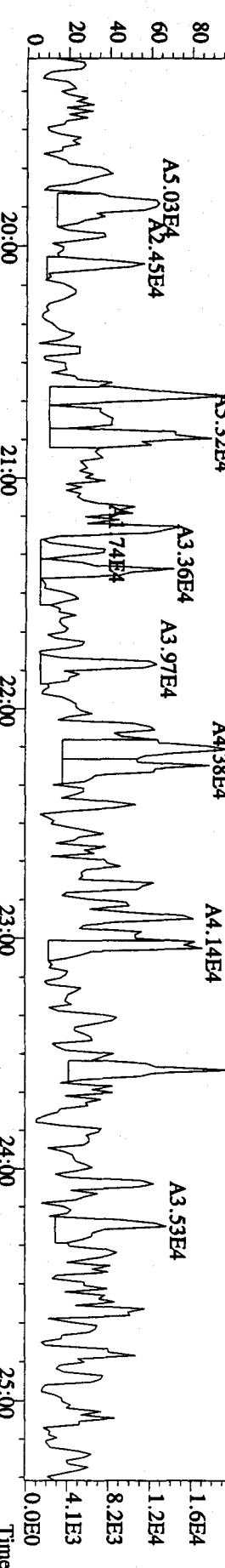
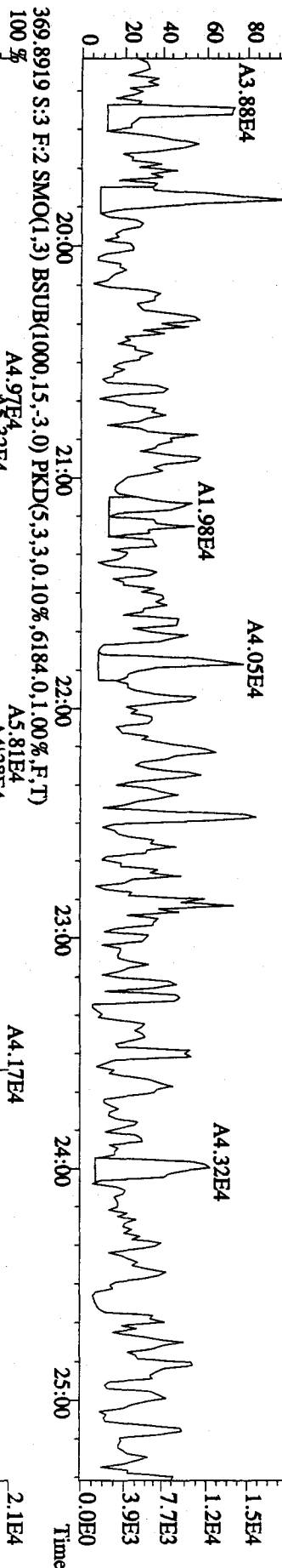
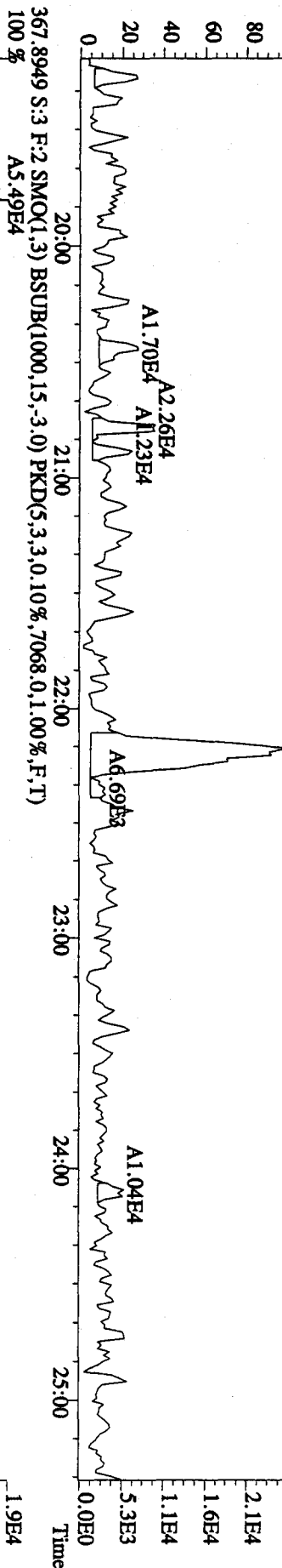
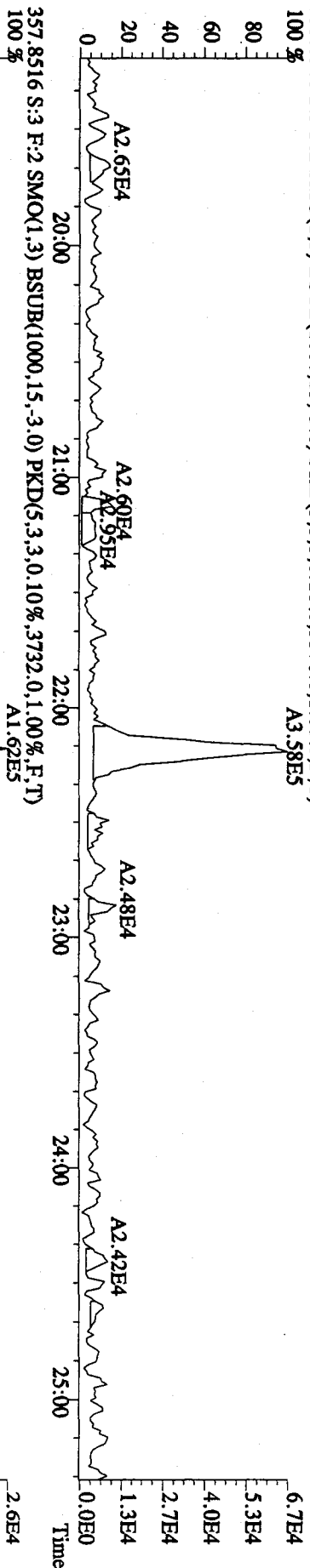
File:17DE091D5 #1-349 Acq:17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1217 :Solvent Blank C-14 Exp:DIOXIN
 339.8597 S:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,11524,0,1.00%,F,T)



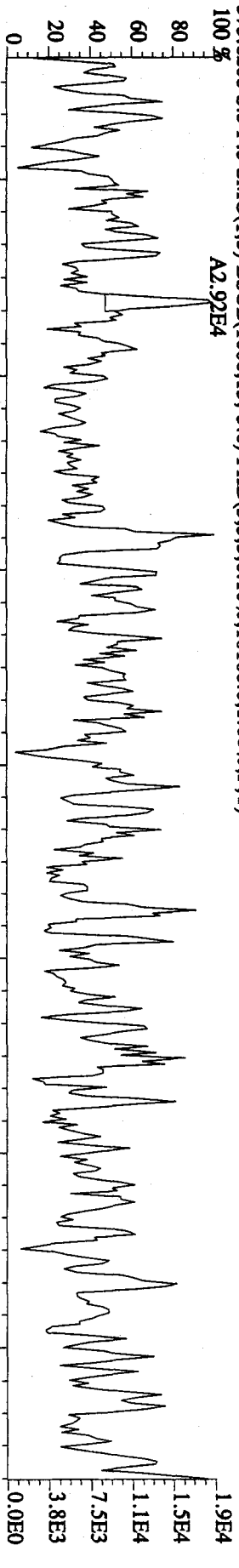
File:17DE091D5 #1-434 Acq:17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB1217 :Solvent Blank C-14 Exp:DIOXIN

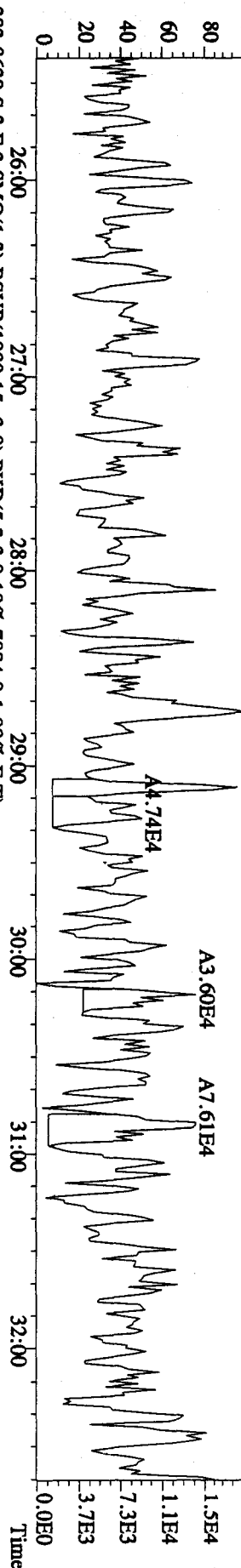
355.8546 S:3 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5576.0,1.00%,F,T)



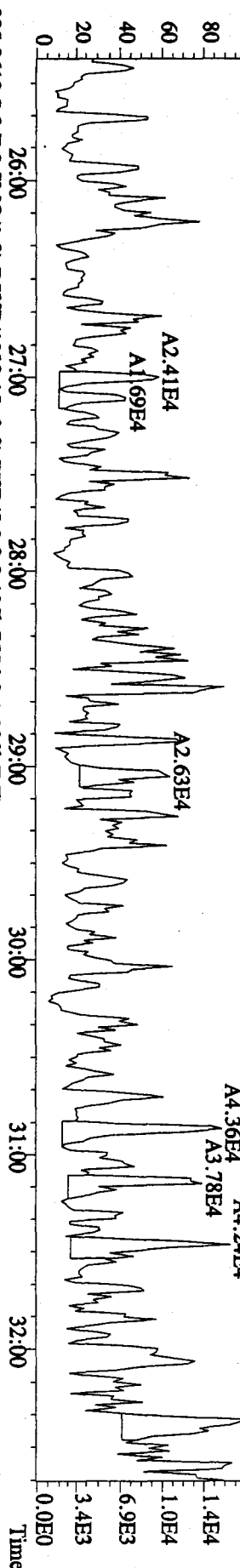
File: 17DE091D5 #1-491 Acq: 17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE
 Sample#3 Text: SB1217 : Solvent Blank C-14 Exp: DIOXIN
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10160,0.1,00%,F,T)
 100% A2.92E4



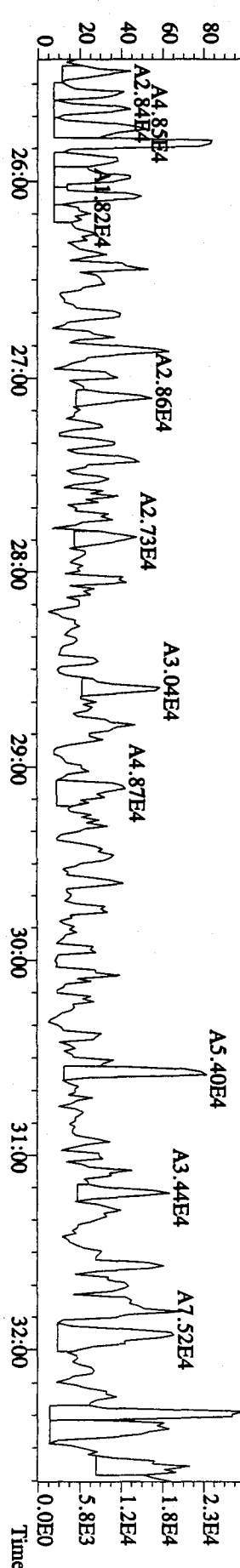
375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9232,0.1,00%,F,T)
 100% A5.19E4

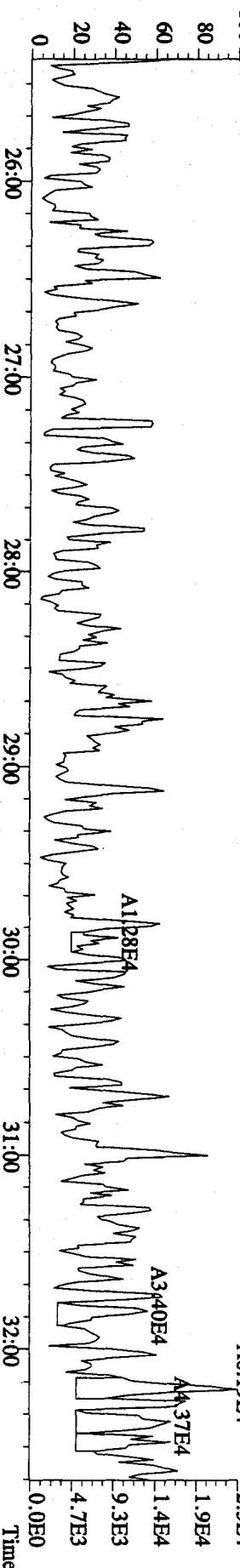
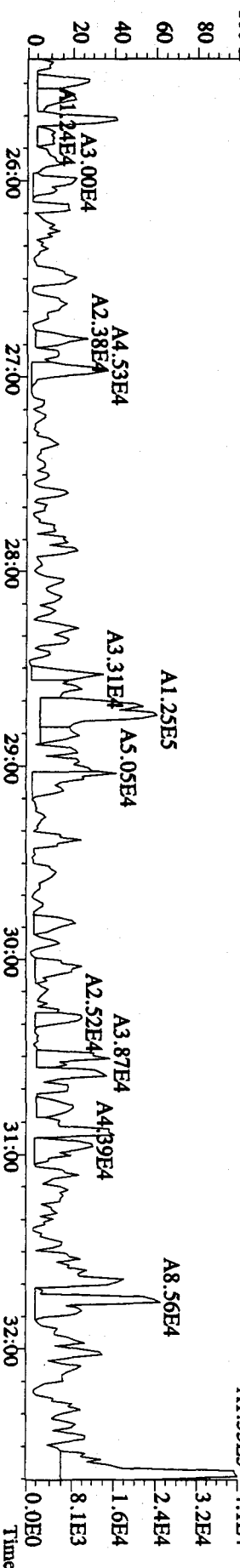
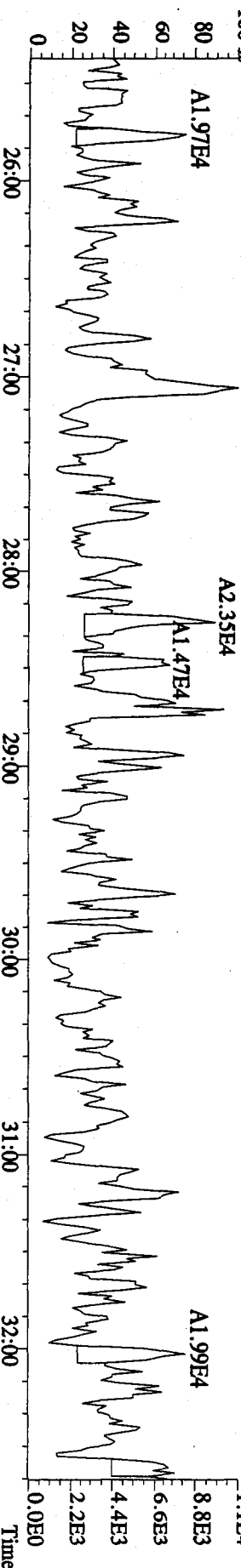
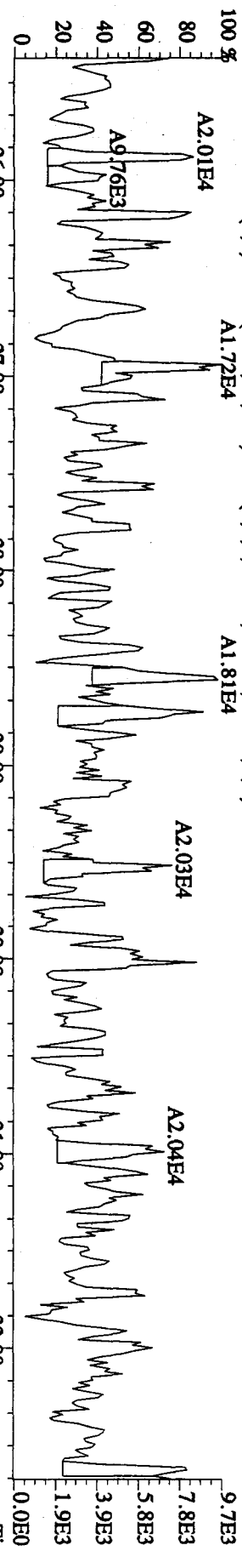


383.8639 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7084,0.1,00%,F,T)
 100%



385.8610 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7556,0.1,00%,F,T)
 100%

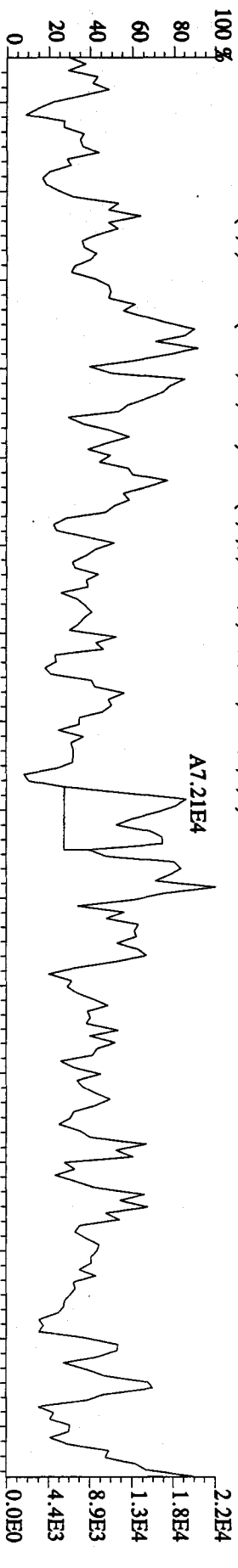




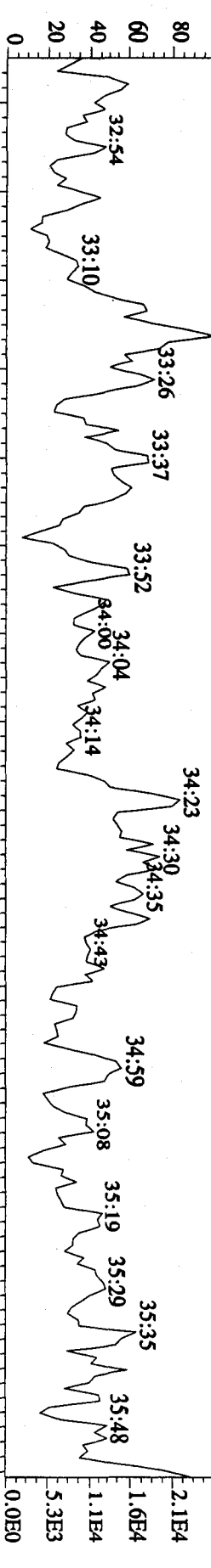
File:17DE091D5 #1-227 Acq:17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB1217 Solvent Blank C-14 Exp:DIOXIN

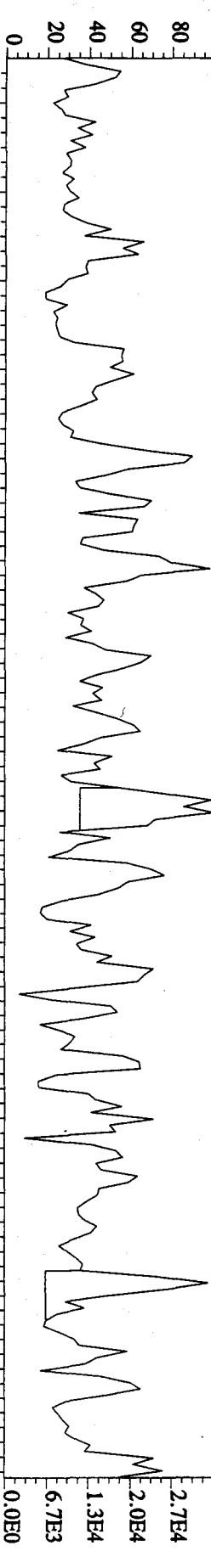
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,11988,0.1,00%,F,T)



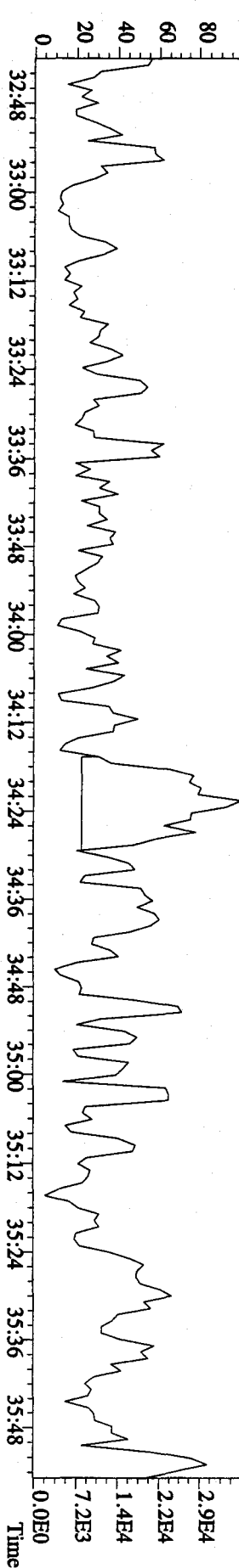
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,13532,0.1,00%,F,T)

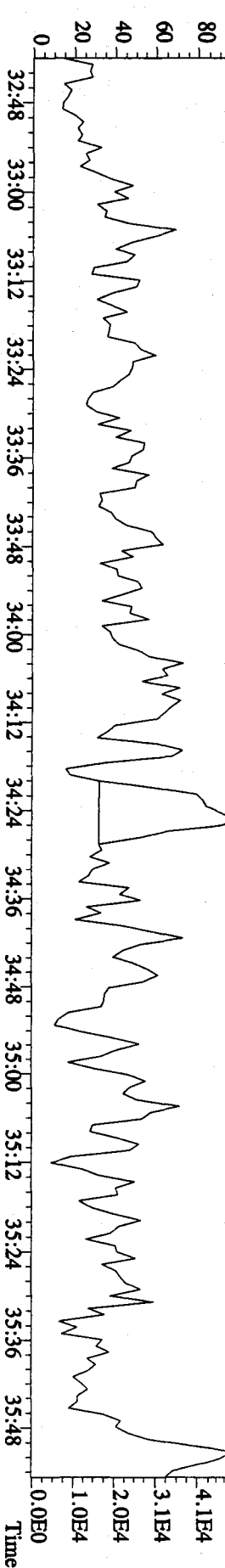
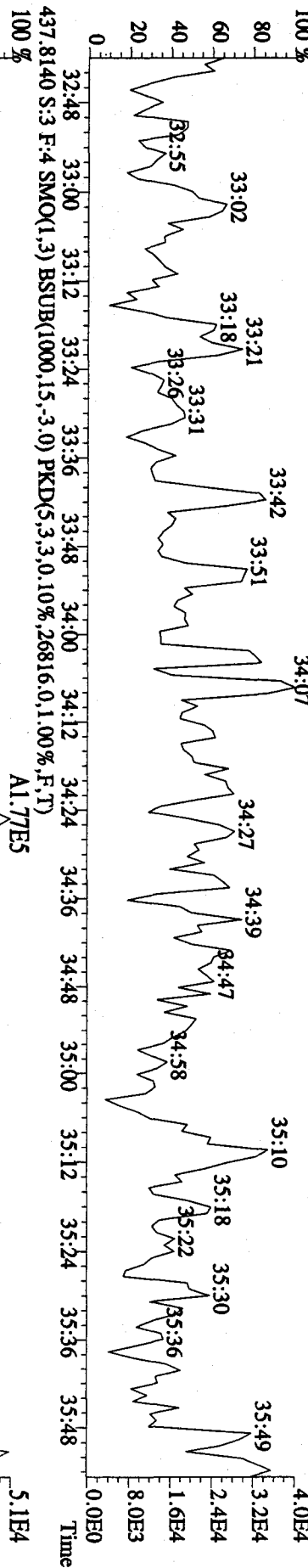
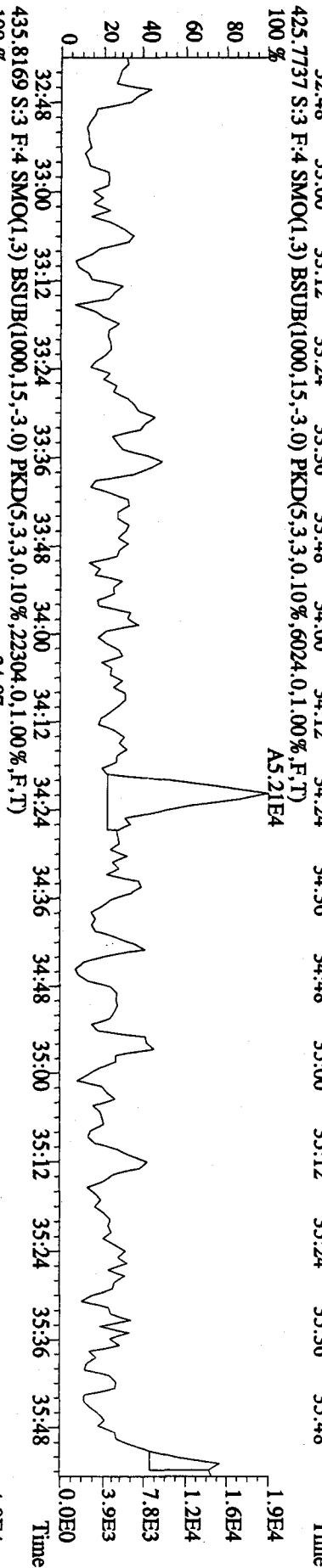
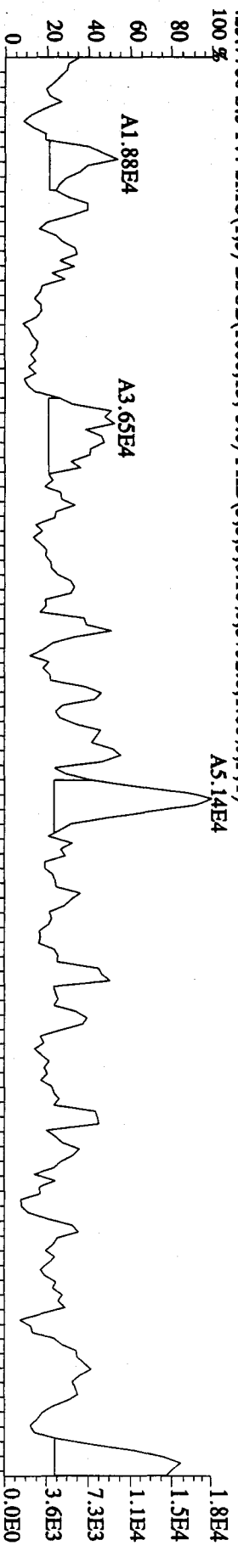


417.8253 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,17896,0.1,00%,F,T)



419.8220 S:3 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,15560,0.1,00%,F,T)

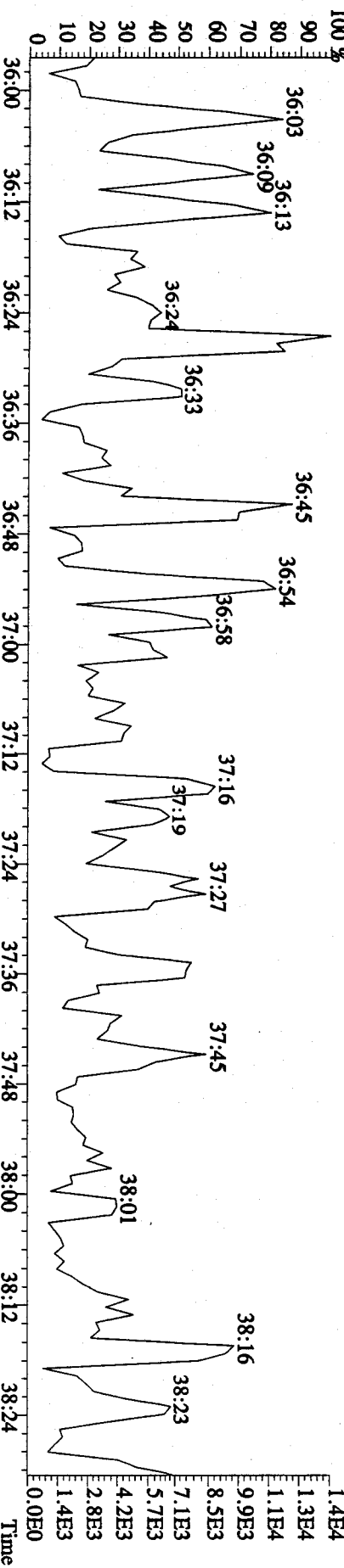
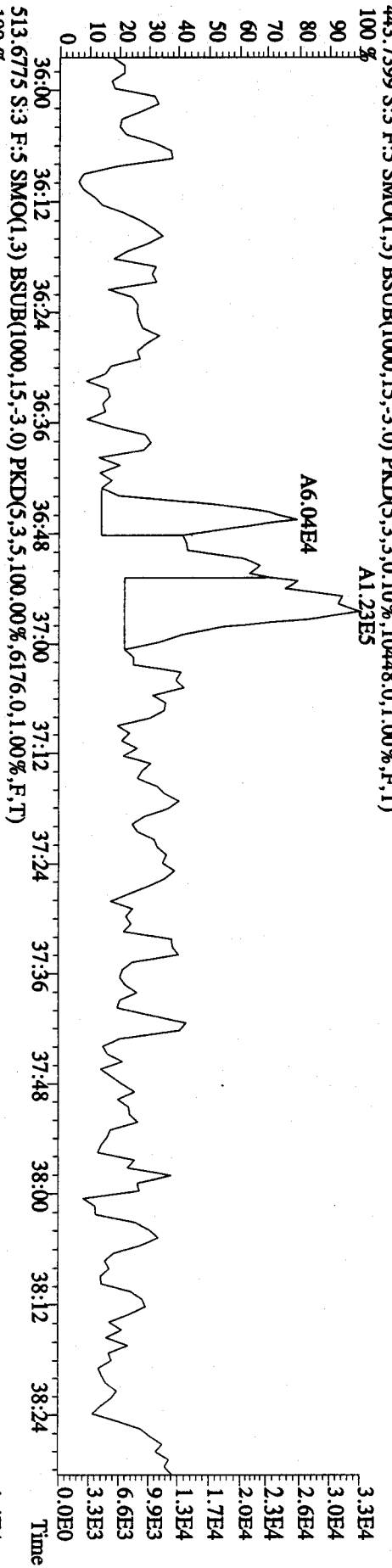
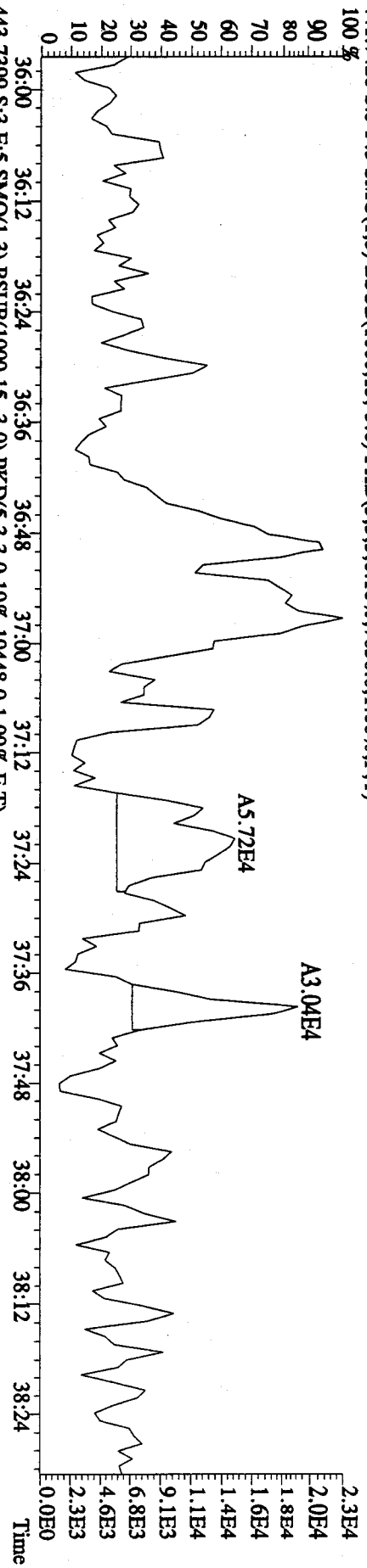




File: 17DE091D5 #1-186 Acq: 17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE

Sample#3 Text: SB1217 : Solvent Blank C-14 Exp: DIOXIN

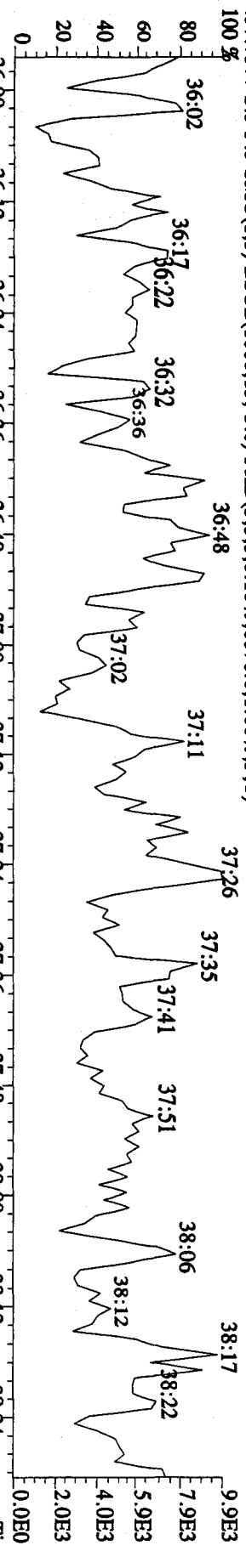
441.7428 S:3 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7636,0,1,00%,F,T)



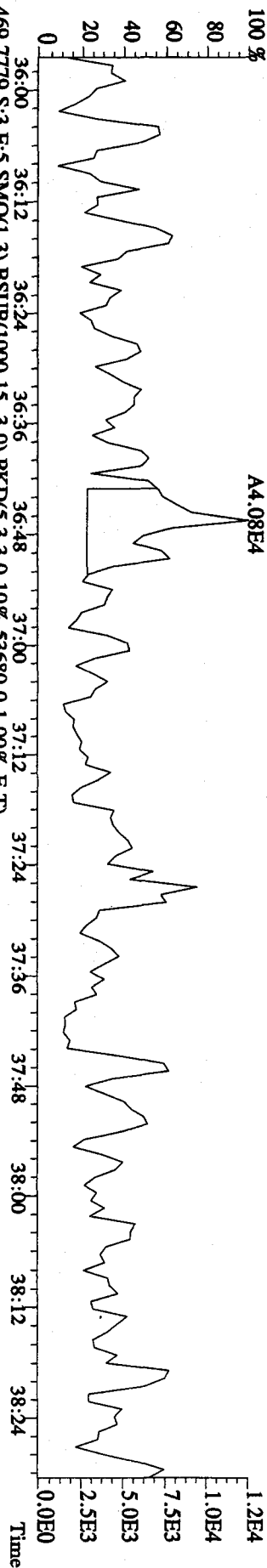
File:17DE091D5 #1-186 Acq:17-DEC-2009 10:11:17 GC EI + Voltage SIR 70SE

Sample#3 Text:SB1217 :Solvent Blank C-14 Exp:DIOXIN

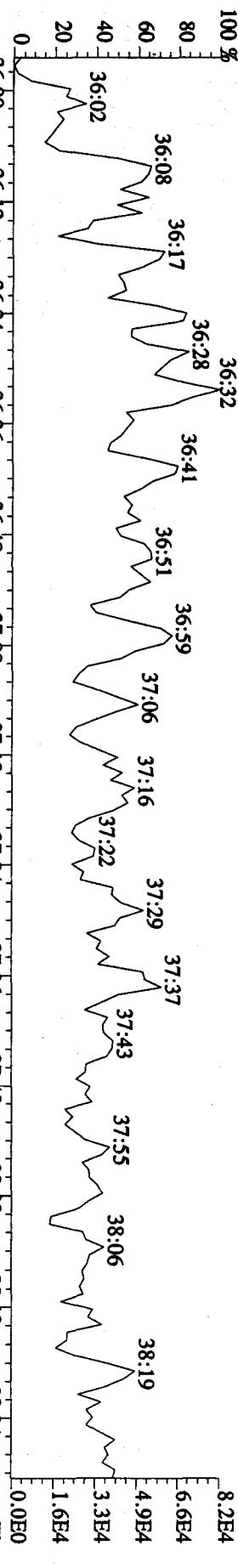
457.7377 S.3.F.5 SMO(1.3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,6876.0,1.00%,F,T)



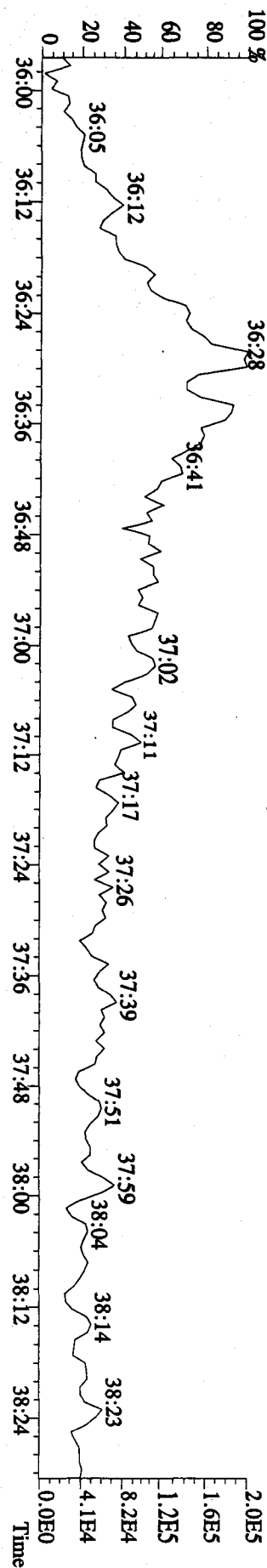
459.7348 S.3.F.5 SMO(1.3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,4916.0,1.00%,F,T)



469.7779 S.3.F.5 SMO(1.3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,53680.0,1.00%,F,T)



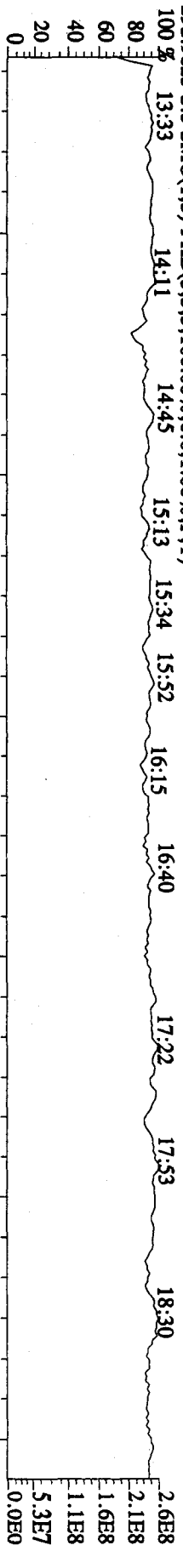
471.7750 S.3.F.5 SMO(1.3) BSUB(1000,15,3.0) PKD(5,3,3,0.10%,96472.0,1.00%,F,T)



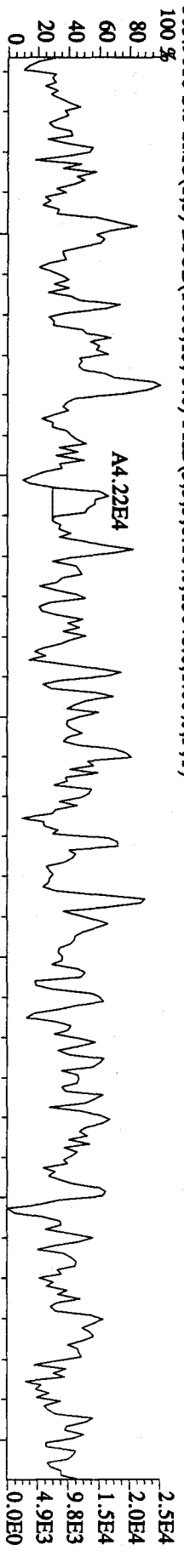
File:17DE091D5 #1-349 Acq:17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB1217 :Solvent Blank C-14 Exp:DIOXIN

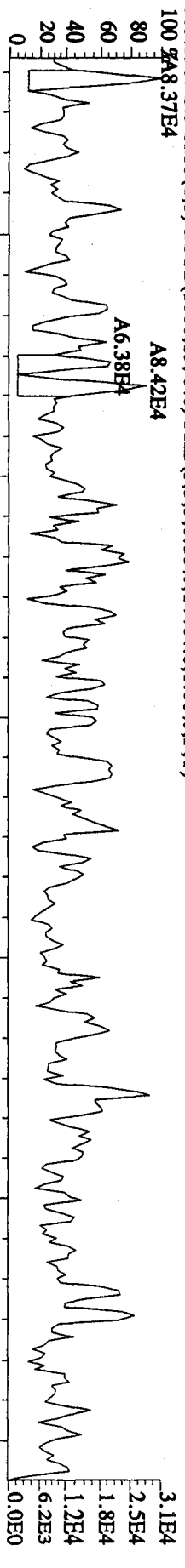
292.9825 S:3 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



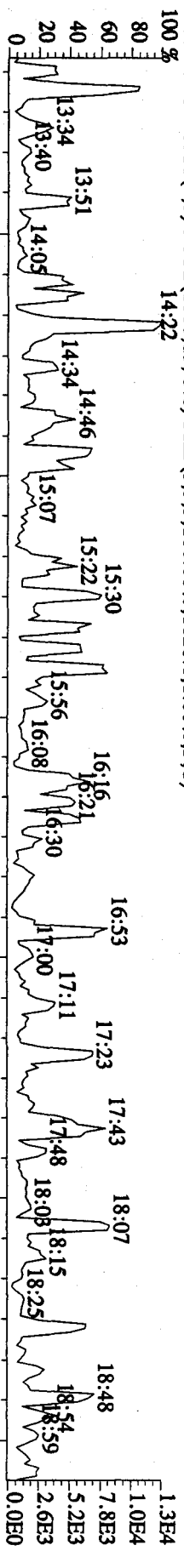
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13048.0,1.00%,F,T)



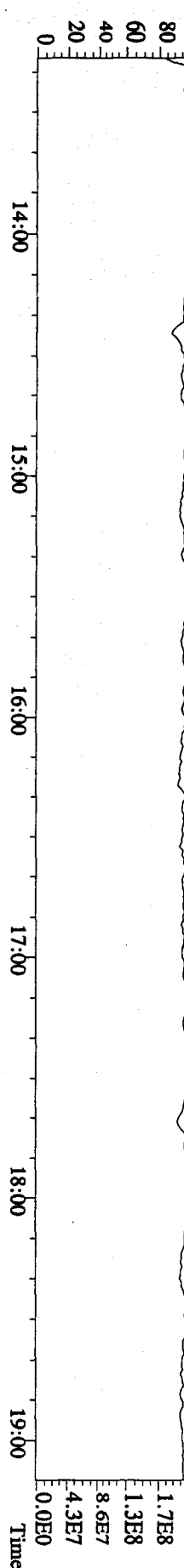
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14464.0,1.00%,F,T)



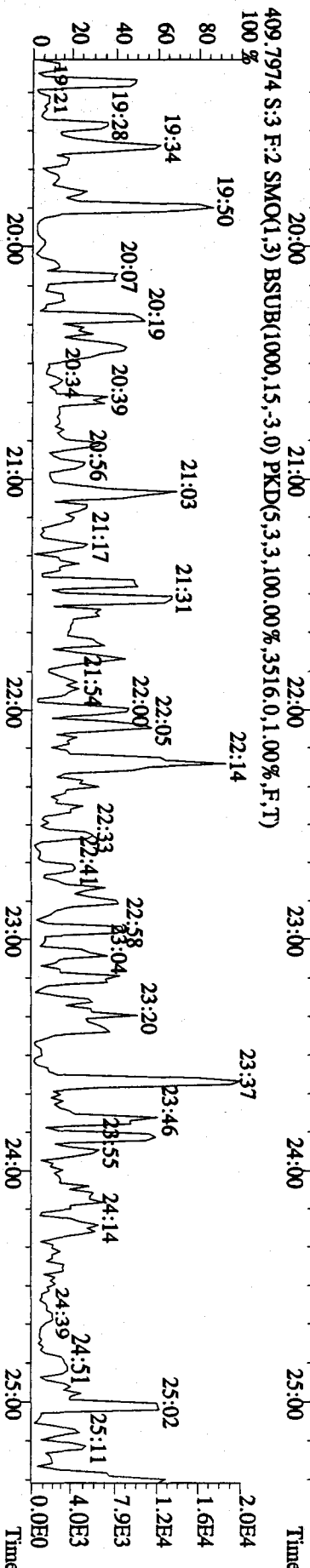
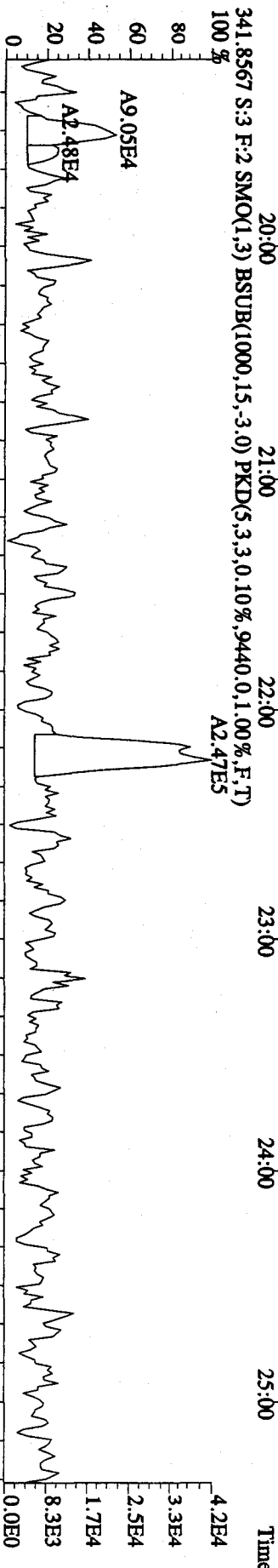
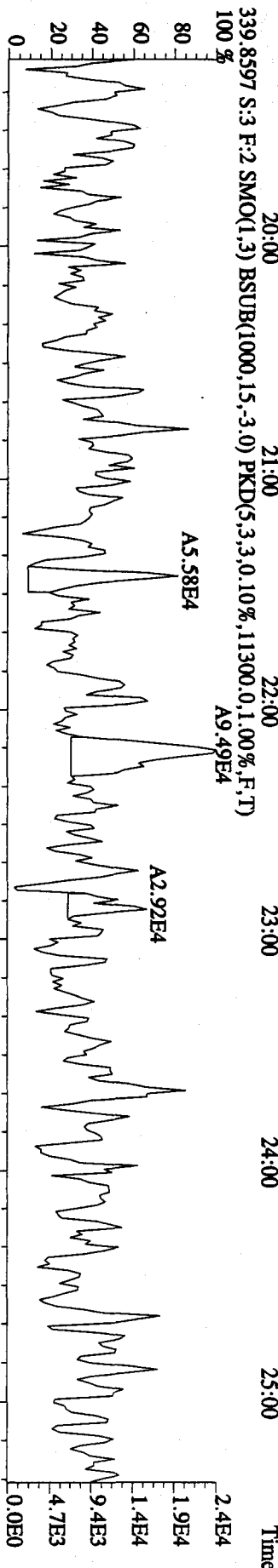
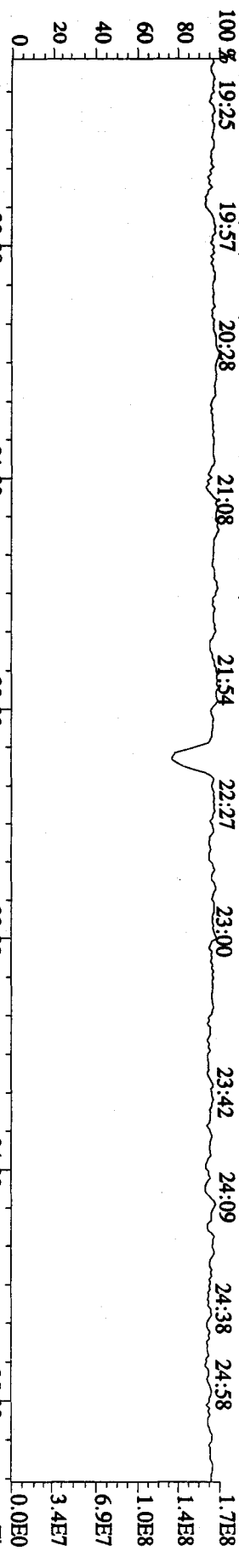
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1828.0,1.00%,F,T)



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



File:17DE091D5 #1-434 Acq:17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE
 Sample#3 Tex:SB1217 :Solvent Blank C-14 Exp:DIOXIN
 342.9792 S:3 F:2 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)
 100% 19:25 19:57 20:28 21:08 21:54 22:27 23:00 23:42 24:09 24:38 24:58

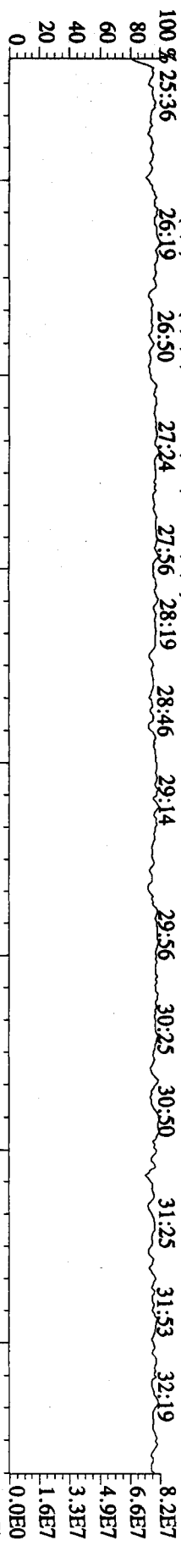


File:17DE091D5 #1-491 Acq:17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB1217 Solvent Blank C-14 Exp:DIOXIN

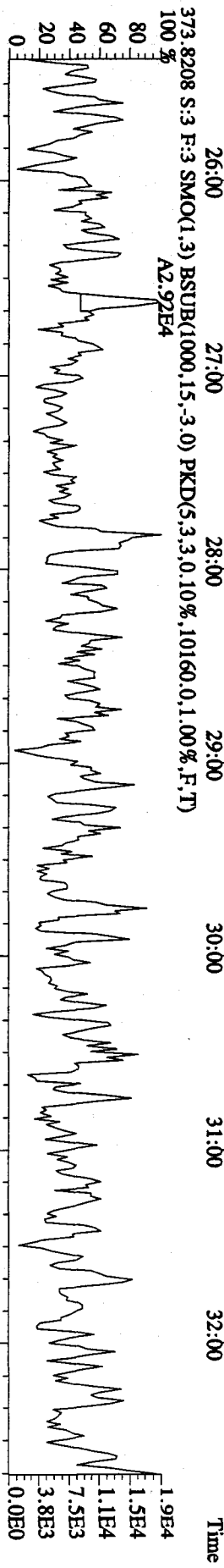
392.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

100% 25.36 26.19 26.50 27.24 27.56 28.19 28.46 29.14 29.56 30.25 30.50 31.25 31.53 32.19



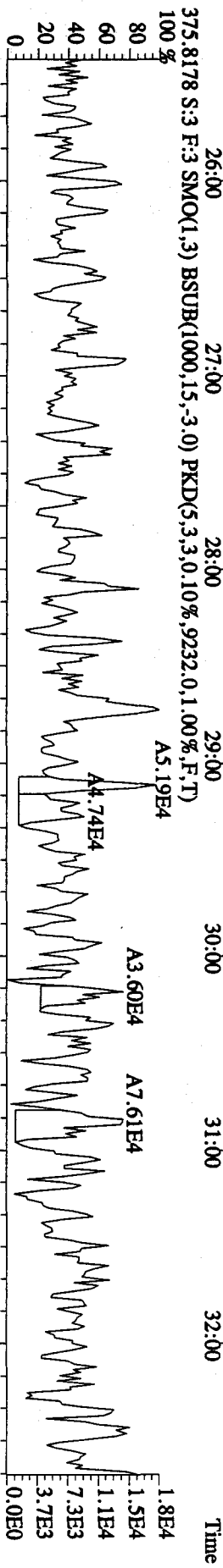
373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,10160,0.1,0.0%,F,T)

A2.92E4

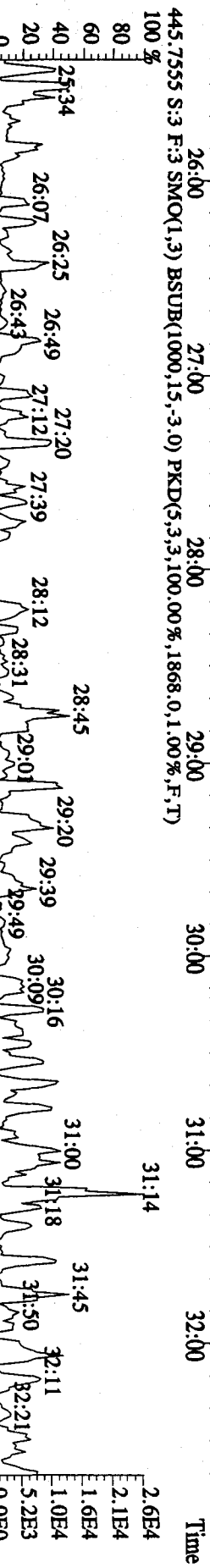


375.8178 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,9232,0.1,0.0%,F,T)

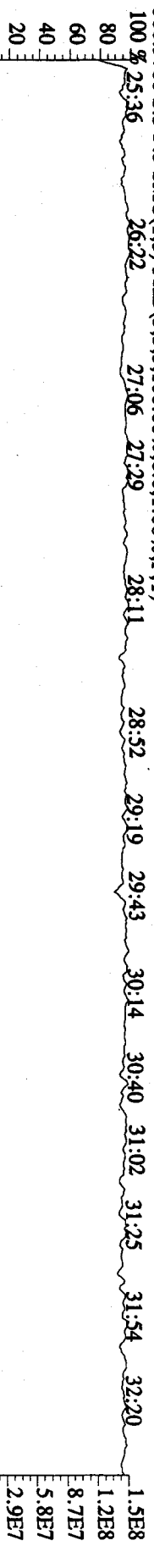
A5.19E4

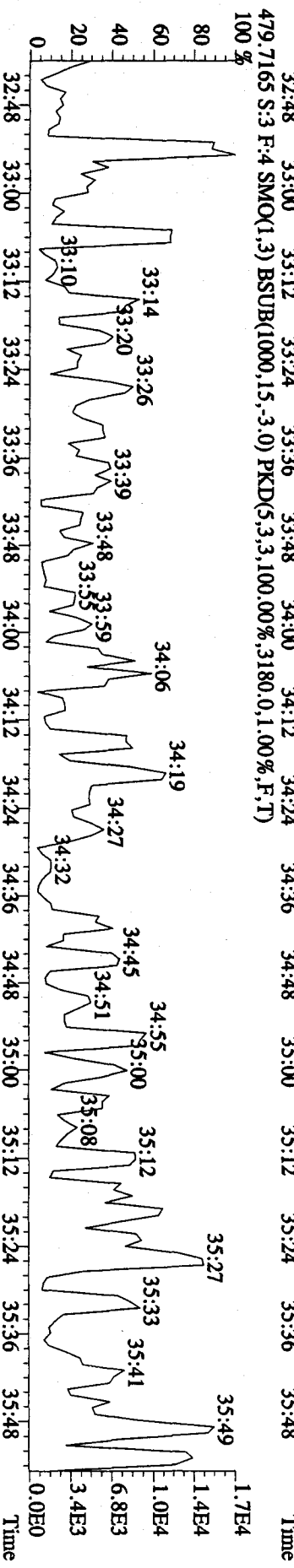
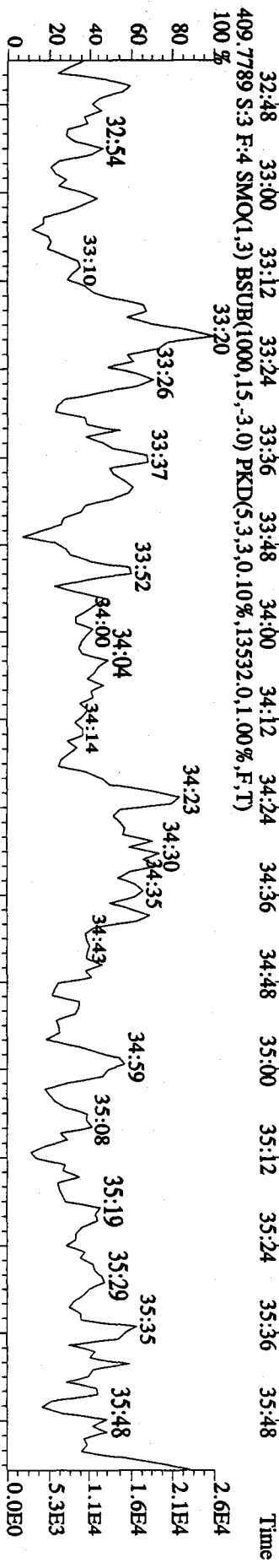
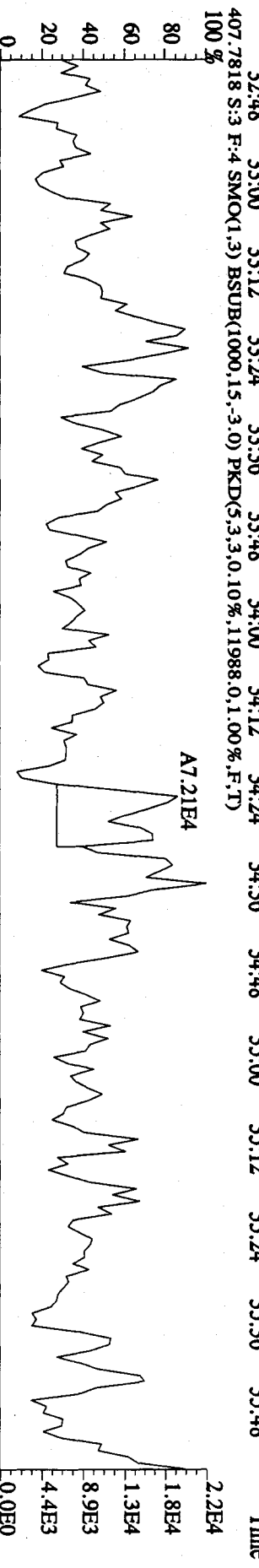
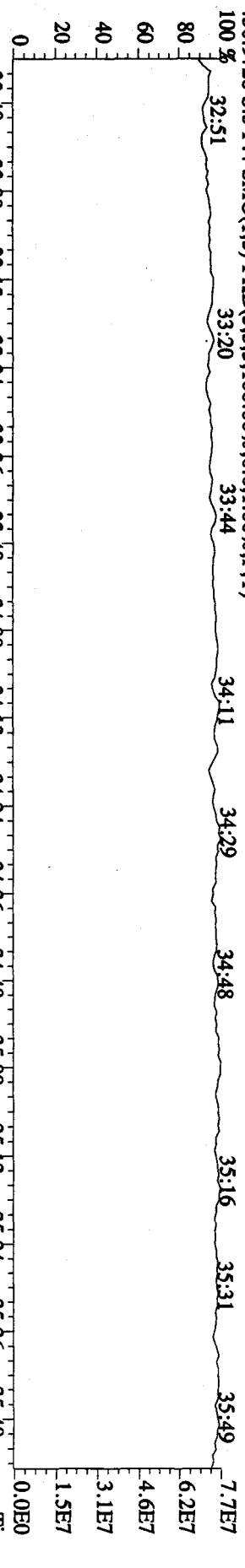


445.7555 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1868,0.1,0.0%,F,T)



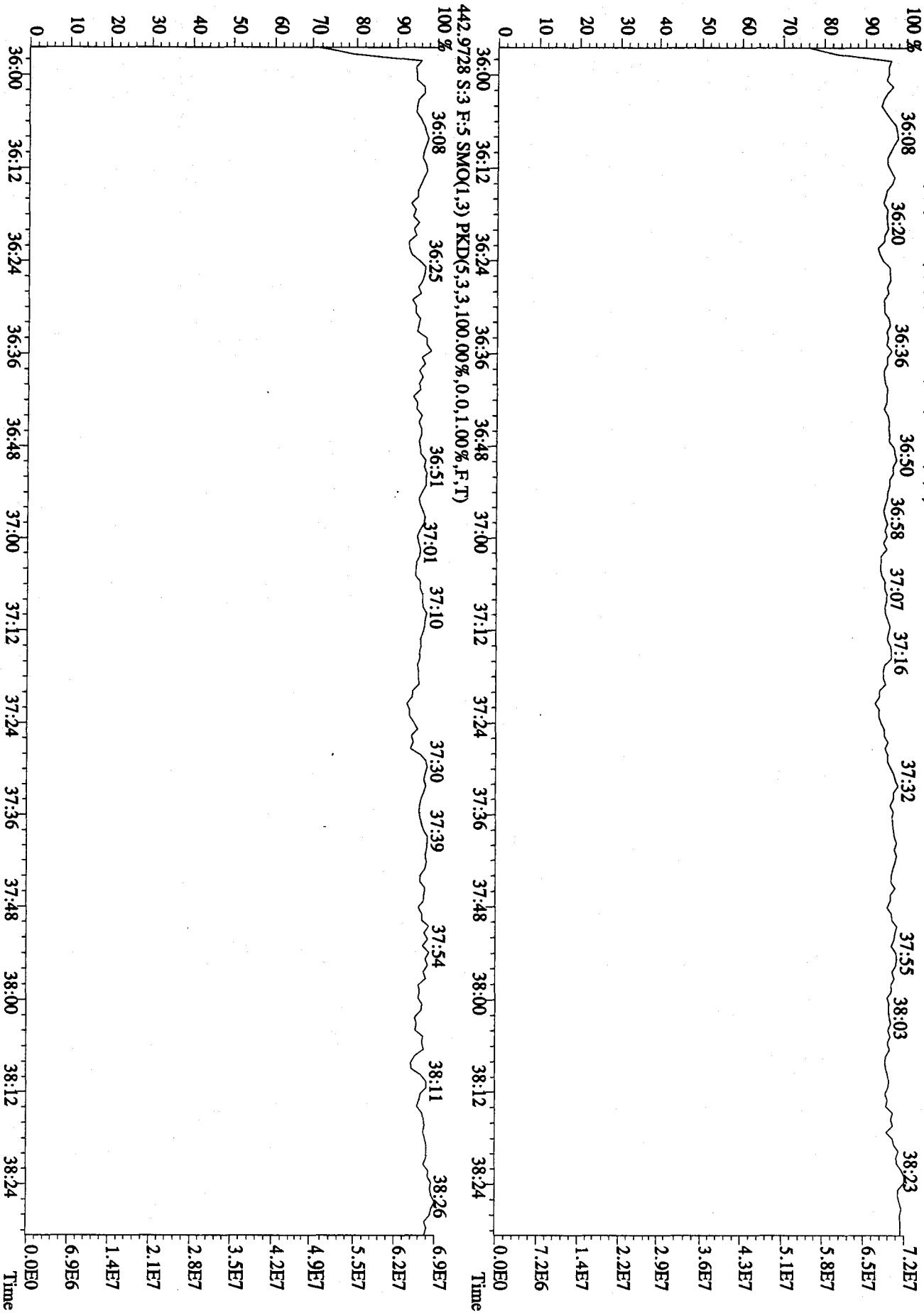
380.9760 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)





File:17DE091D5 #1-186 Acq:17-DEC-2009 10:11:17 GC EI+ Voltage SIR 70SE

Sample#3 Text:SB1217 :Solvent Blank C-14 Exp:DIOXIN
454.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

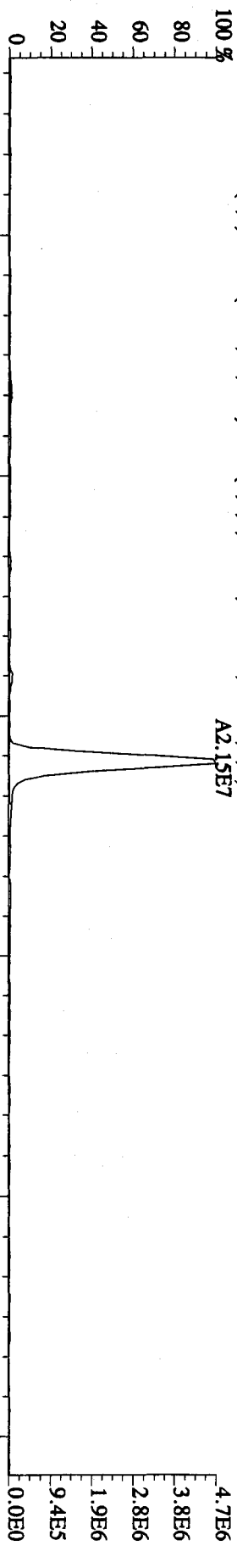


File:17DE091D5 #1-349 Acq:17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE

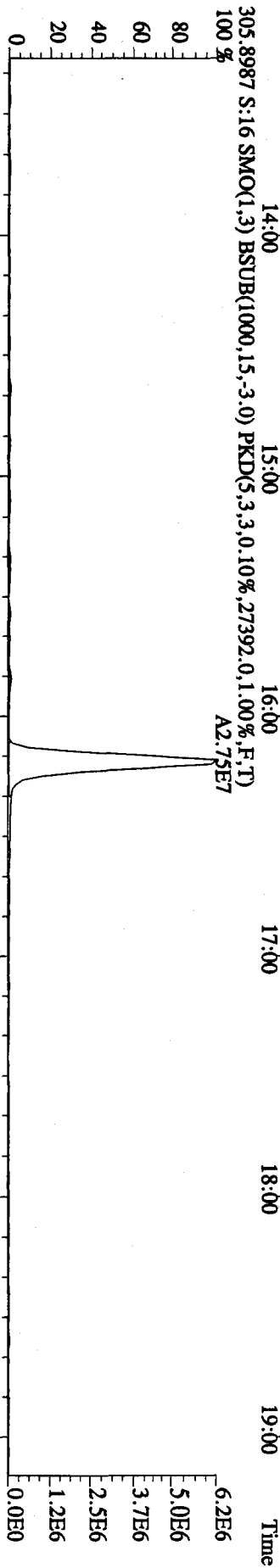
Sample#16 Text:ST1217A :CS3 09DXN384

Exp:DIOXIN

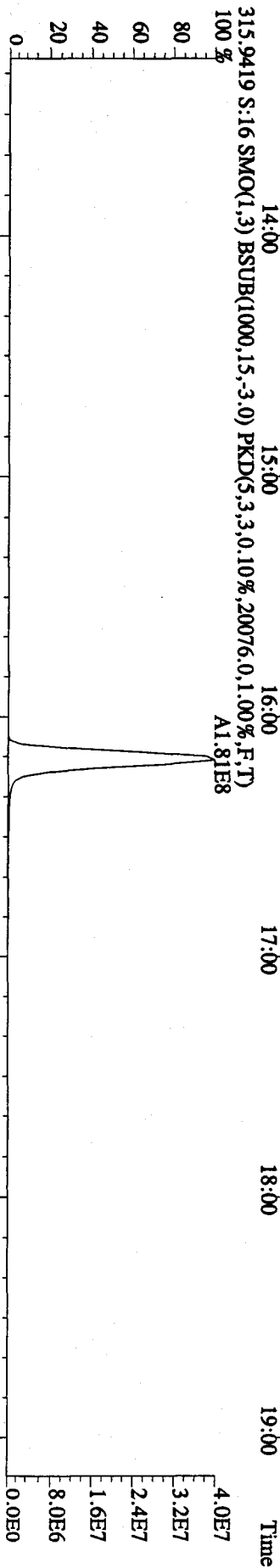
303.9016 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22908,0.1,00%,F,T) A2.15E7



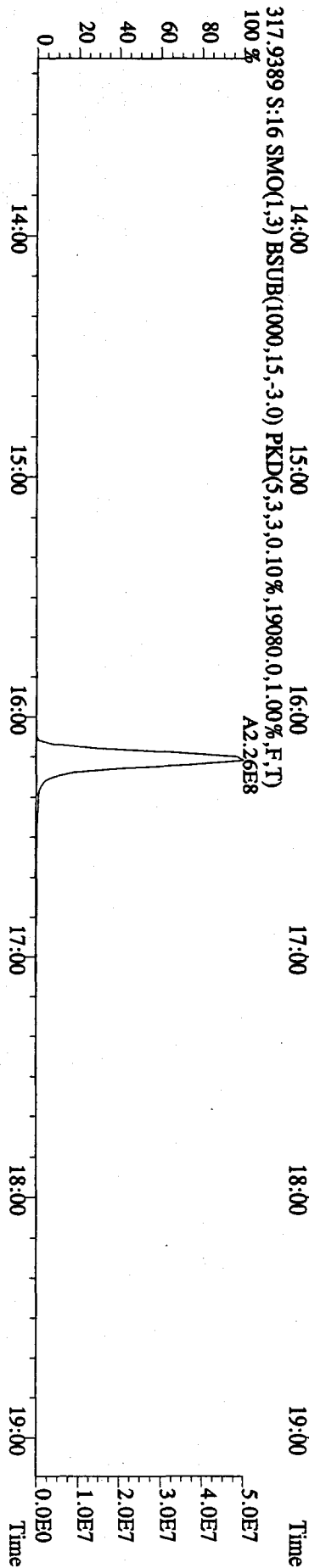
305.8987 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27392,0.1,00%,F,T) A2.75E7



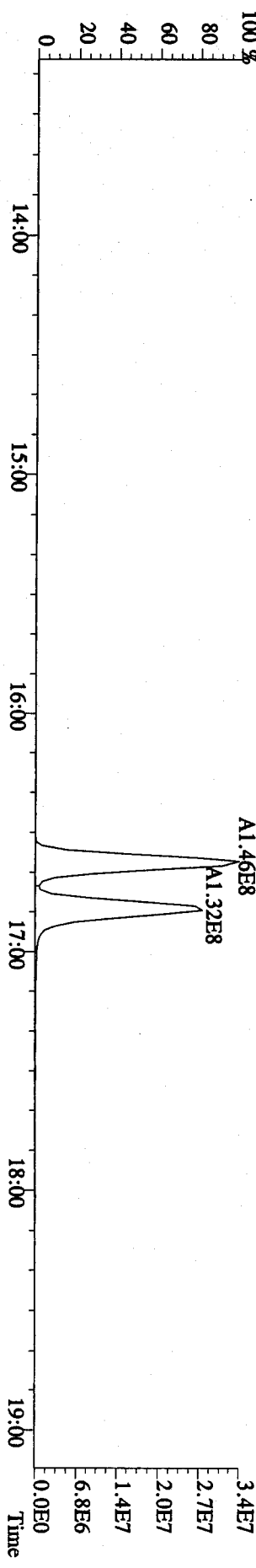
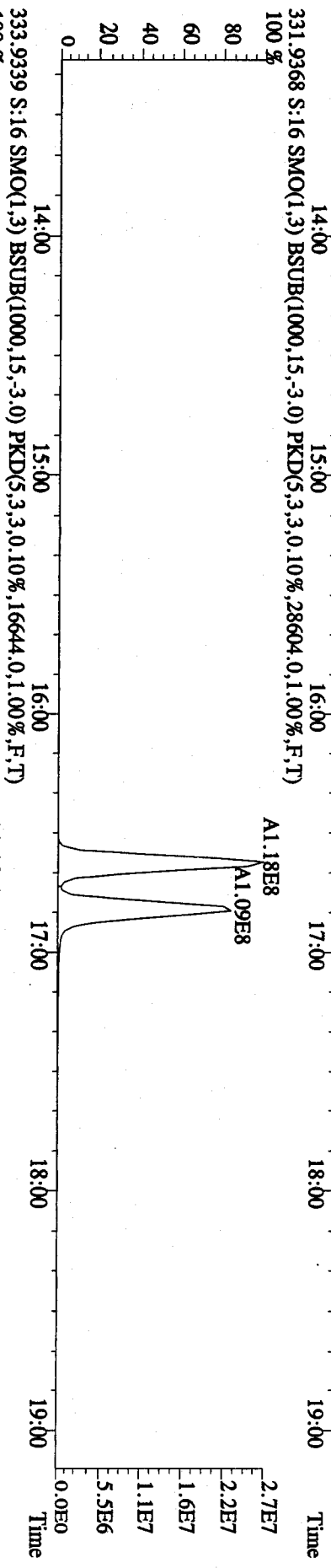
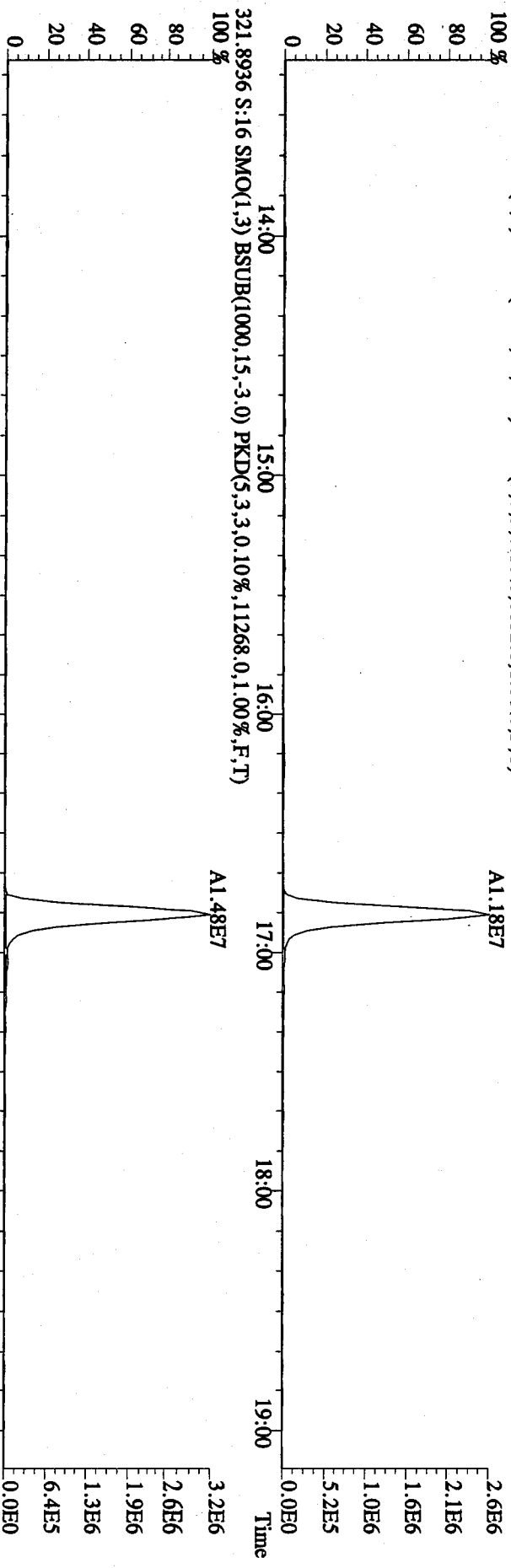
315.9419 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20076,0.1,00%,F,T) A1.81E8



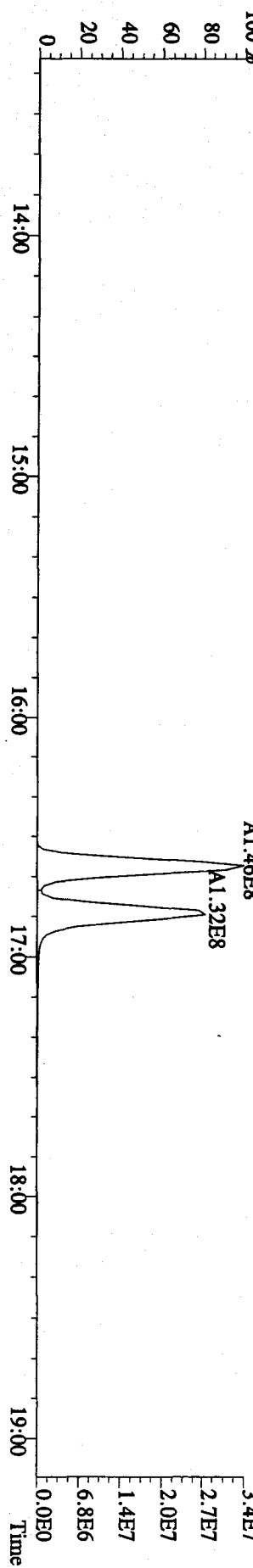
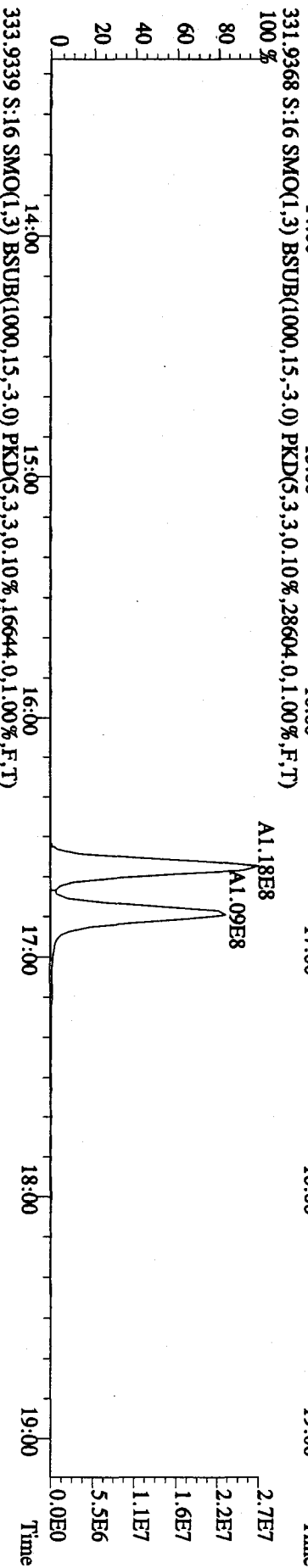
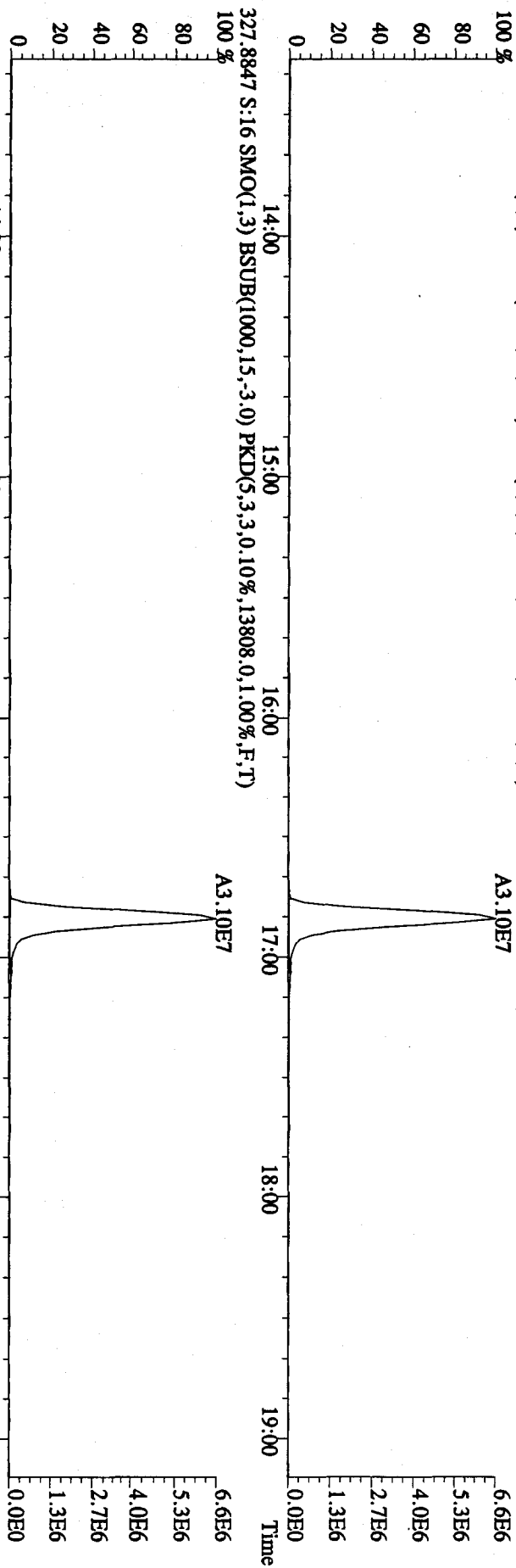
317.9389 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,19080,0.1,00%,F,T) A2.26E8



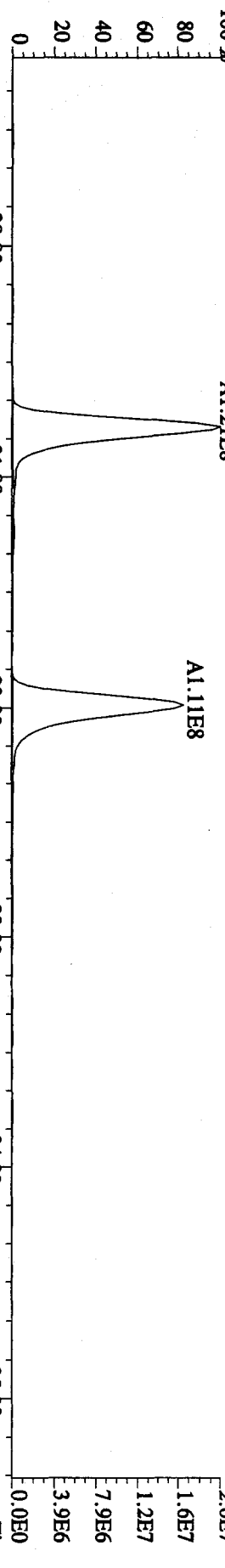
File: 17DE091D5 #1-349 Acq: 17-DEC-2009 19:15:13 GC EI + Voltage SIR 70SE
 Sample#16 Text: ST1217A : CS3 09DXN384 Exp: DIOXIN
 319.8965 S:16 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8052,0,1,00%,F,T)
 100 %



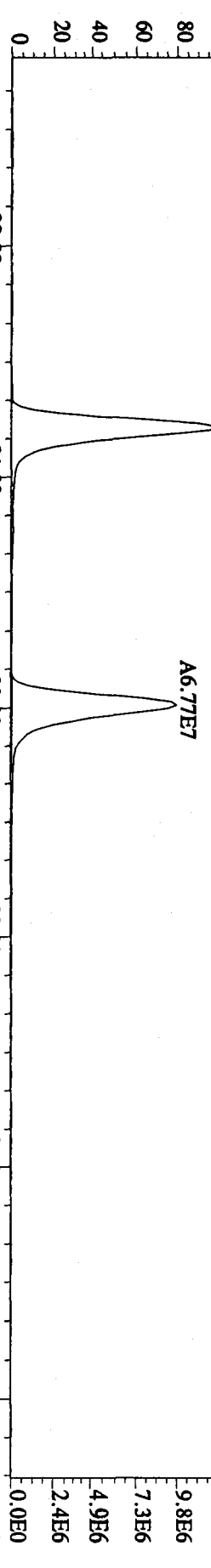
File: 17DE091D5 #1-349 Acq: 17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE
 Sample#16 Text: ST1217A :CS3 09DXN384 Exp: DIOXIN
 327.8847 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13808.0,1.00%,F,T)



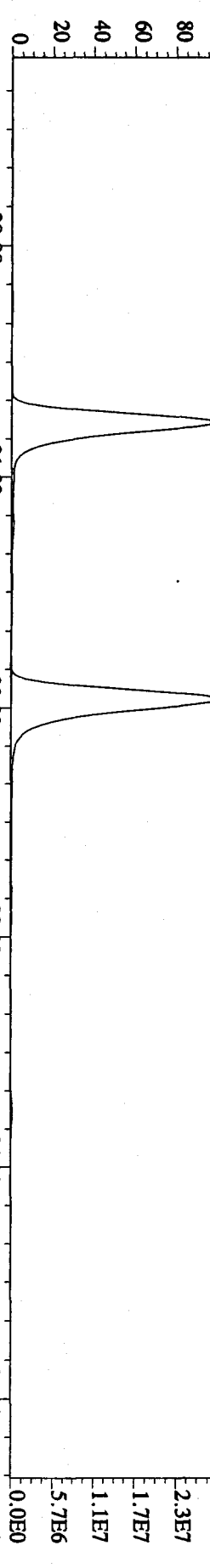
File:17DE091D5 #1-434 Acq:17-DEC-2009 19:15:13 GC EI + Voltage SIR 70SE
 Sample#16 Text:ST1217A :CS3 09DXN384 Exp:DIOXIN
 339.8597 S:16 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,27848,0.1,00%,F,T)
 100% A1.21E8



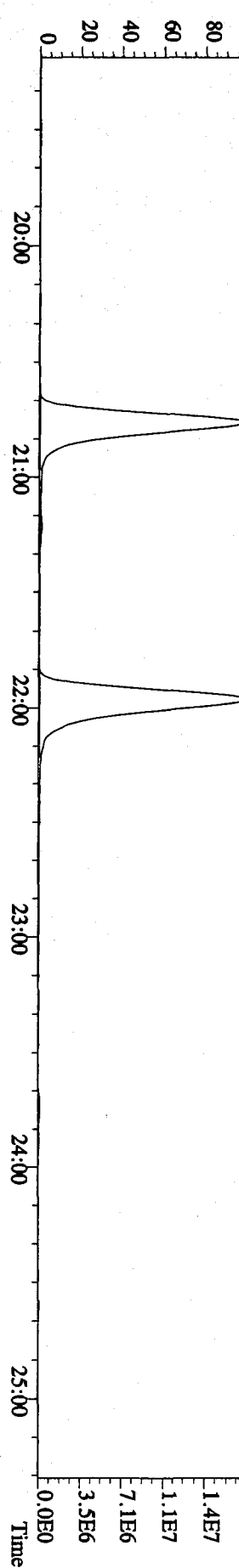
341.8567 S:16 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,18316,0.1,00%,F,T)
 100% A7.48E7



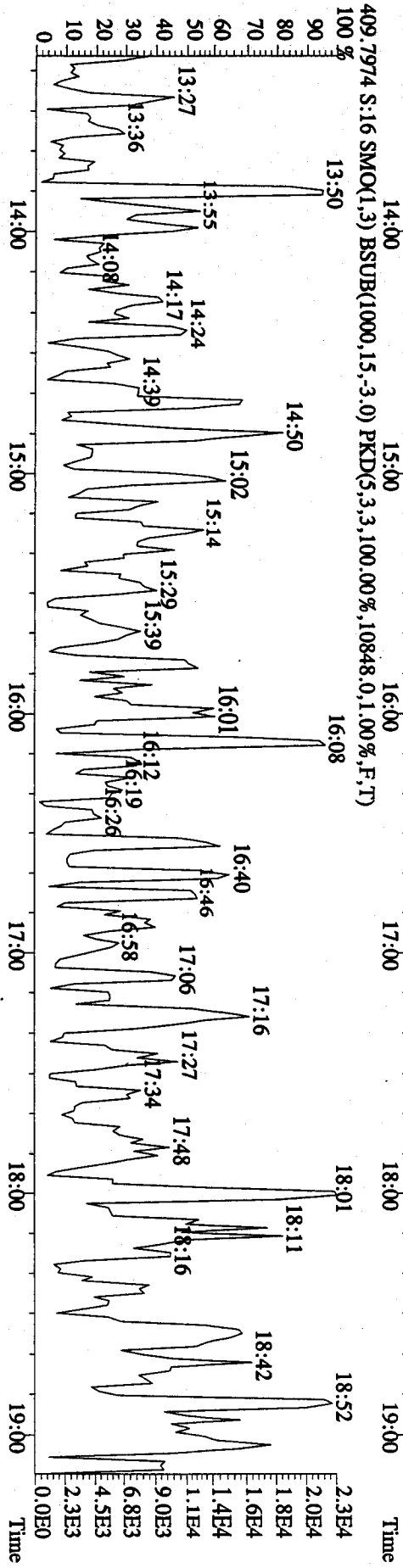
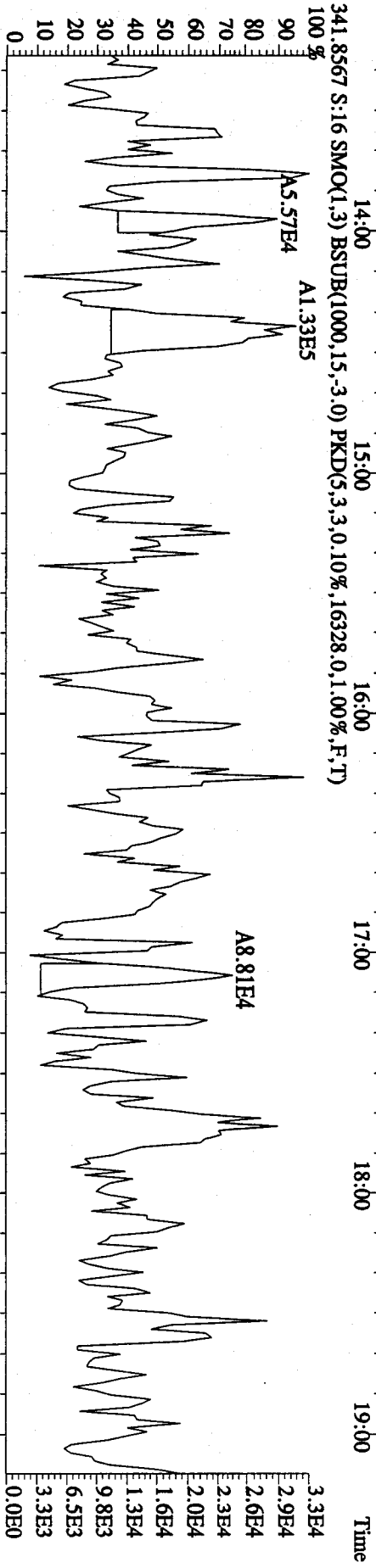
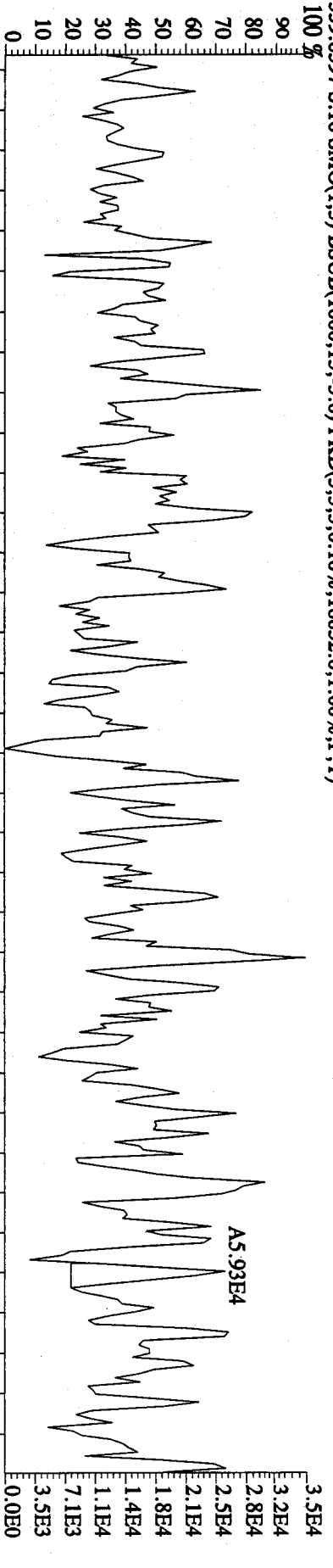
351.9000 S:16 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,20676,0.1,00%,F,T)
 100% A1.76E8



353.8970 S:16 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,29844,0.1,00%,F,T)
 100% A1.09E8



File: 17DE091D5 #1-349 Acq: 17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE
 Sample#16 Text: ST1217A :CS3 09DXN384 Exp: DIOXIN
 339.8597 S:16 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,18852,0.1,00%,F,T)

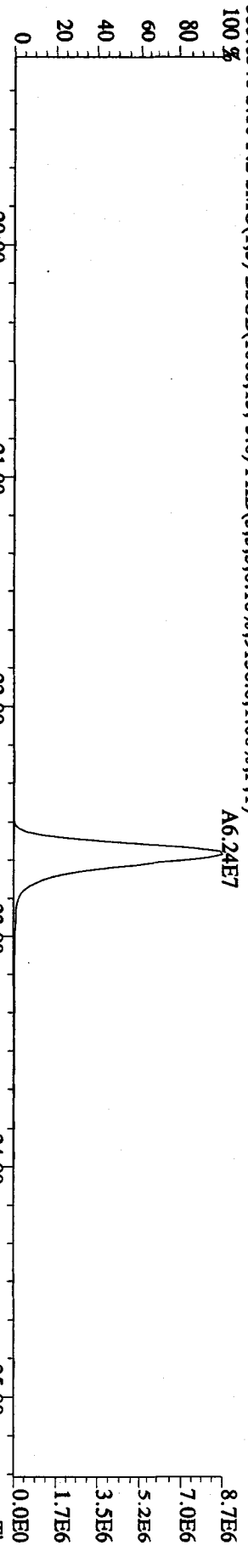


File: 17DE091D5 #1-434 Acq: 17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE

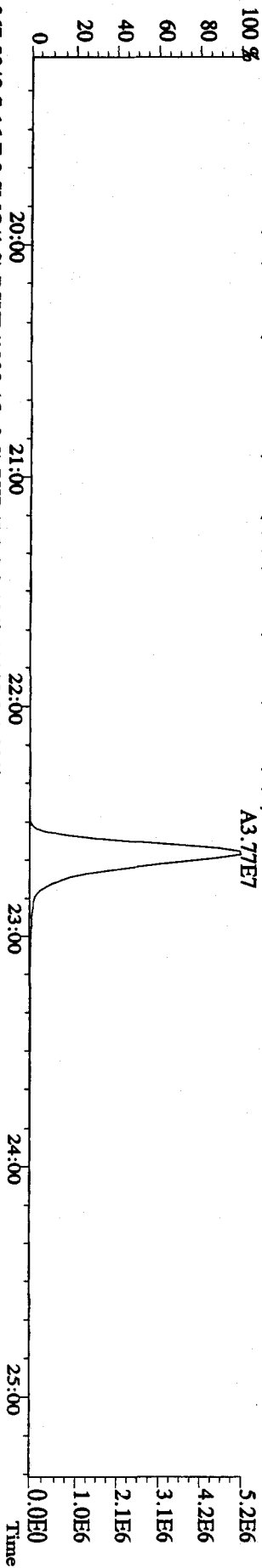
Sample#16 Text: ST1217A :CS3 09DDXN384

Exp: DIOXIN

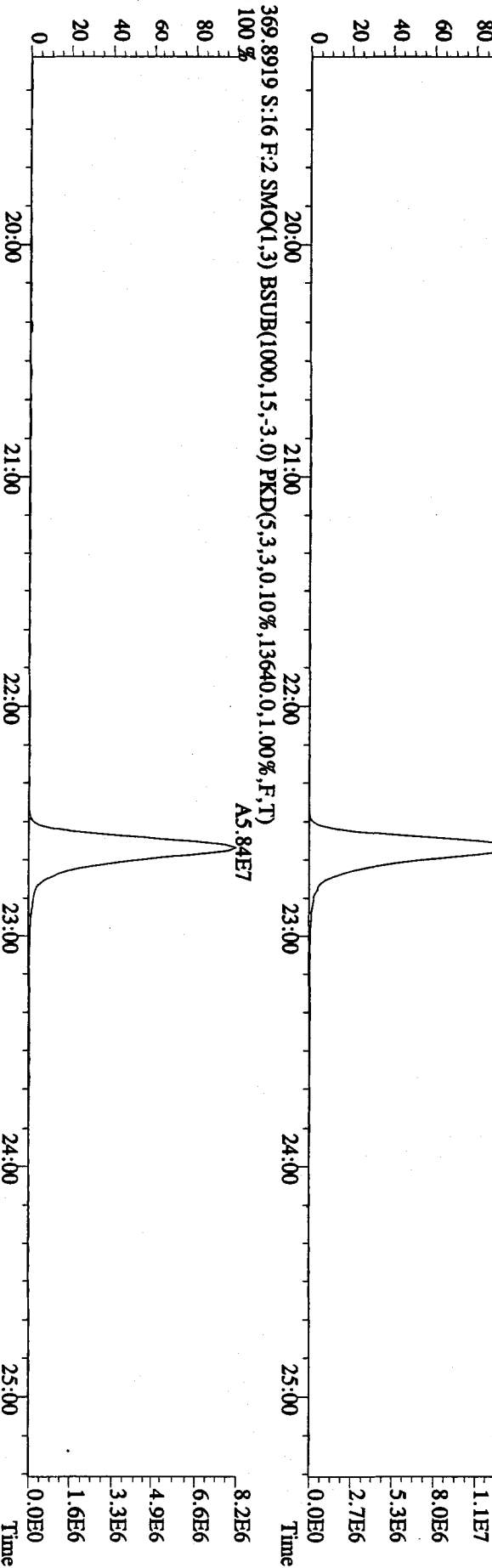
355.8546 S:16 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9136,0,1,00%,F,T)



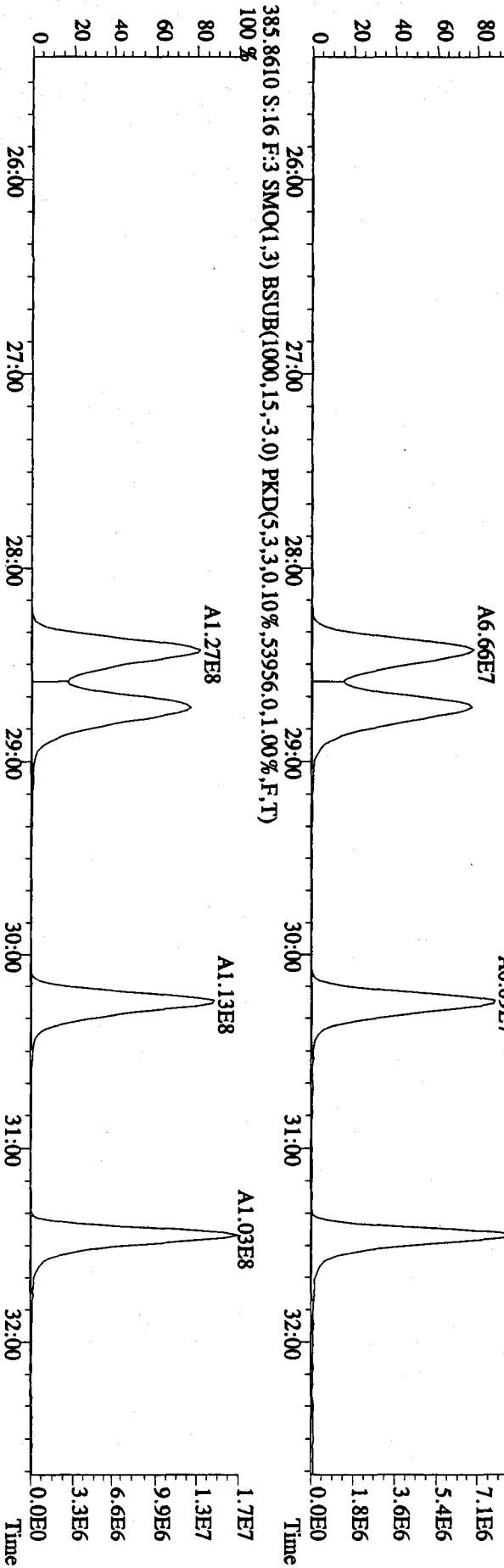
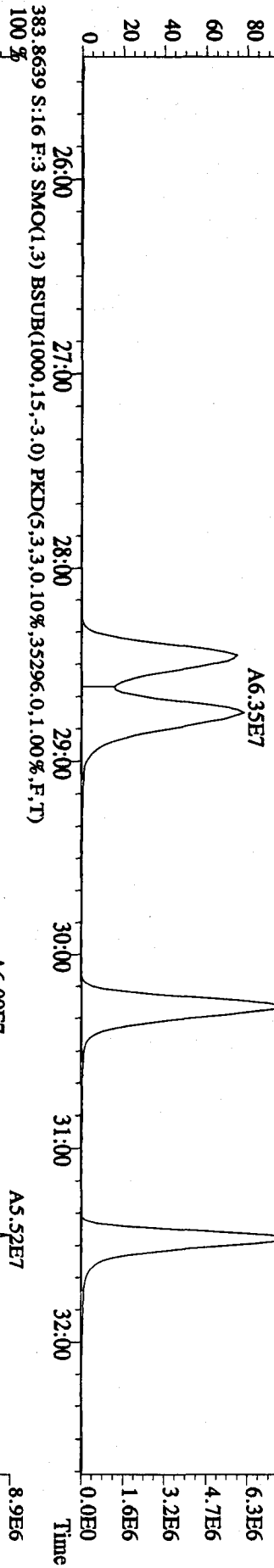
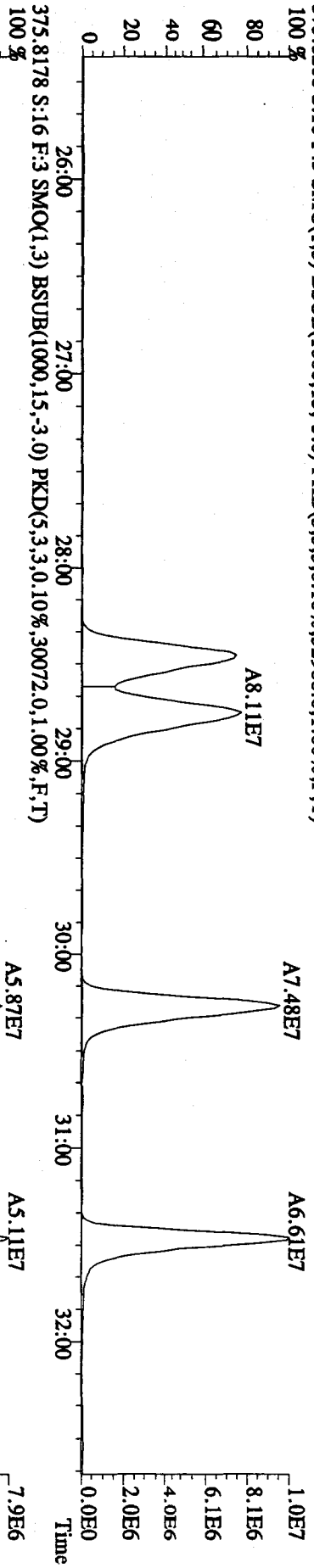
357.8516 S:16 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9188,0,1,00%,F,T)



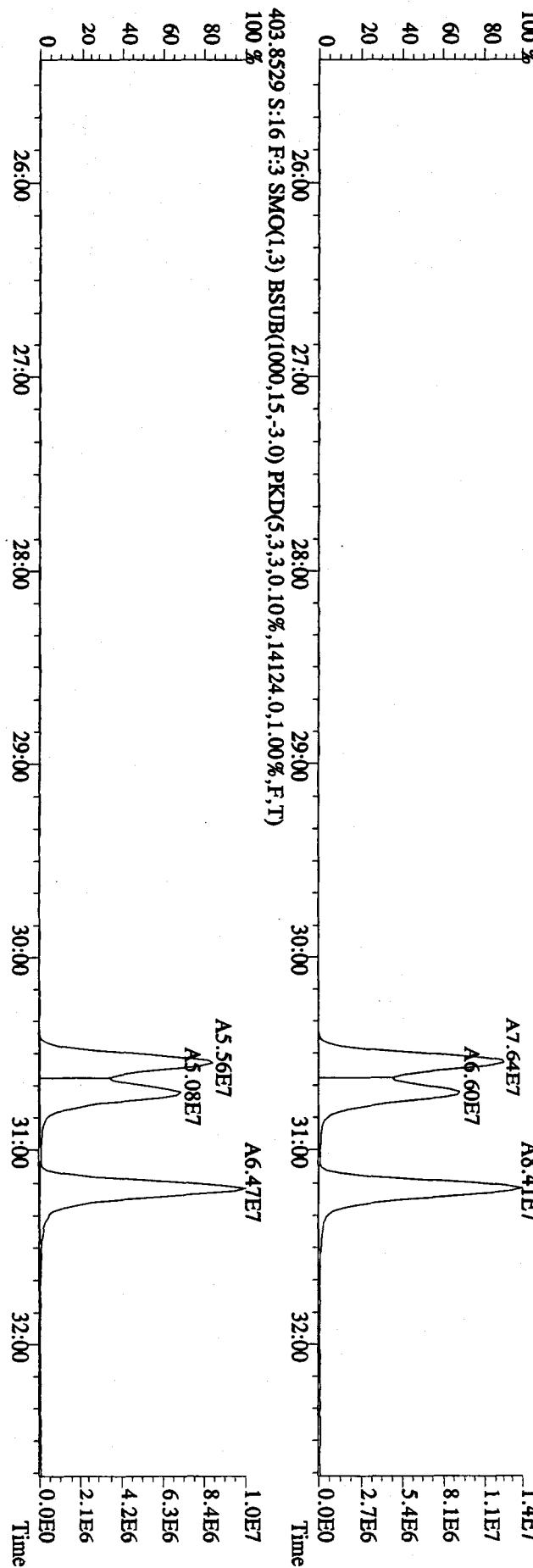
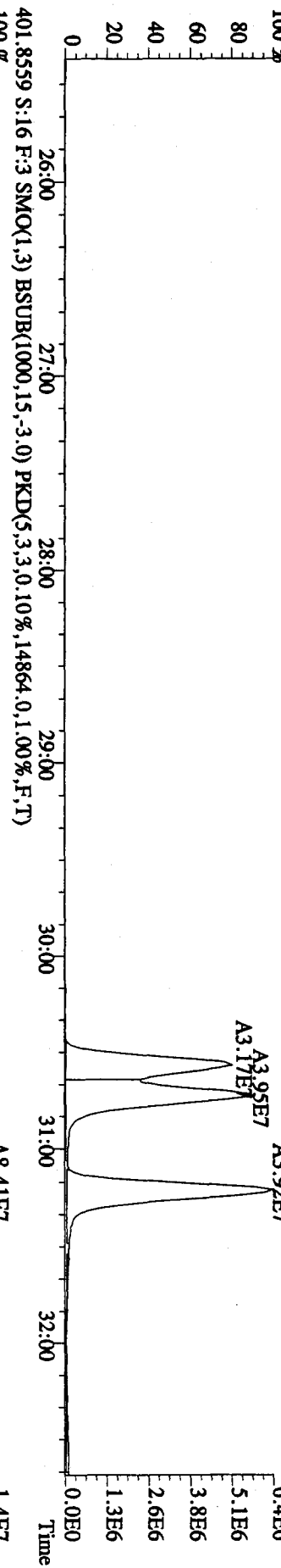
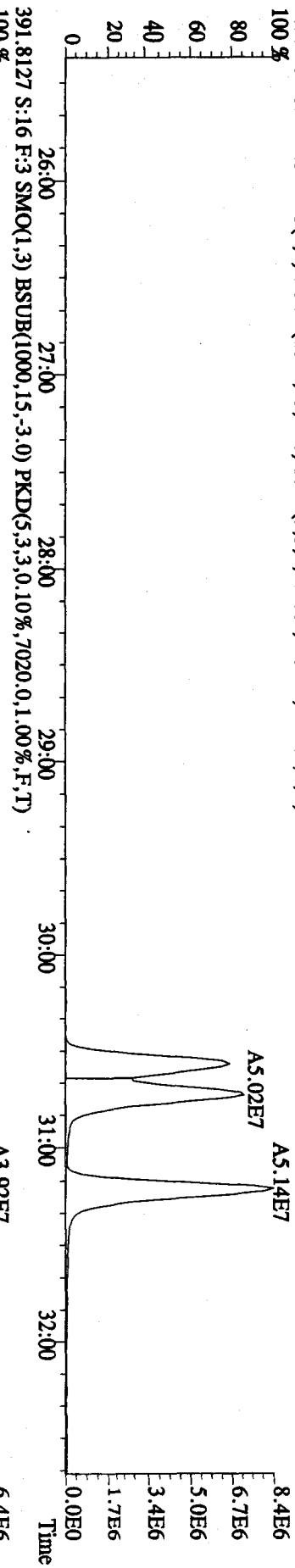
369.8919 S:16 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,13640,0,1,00%,F,T)



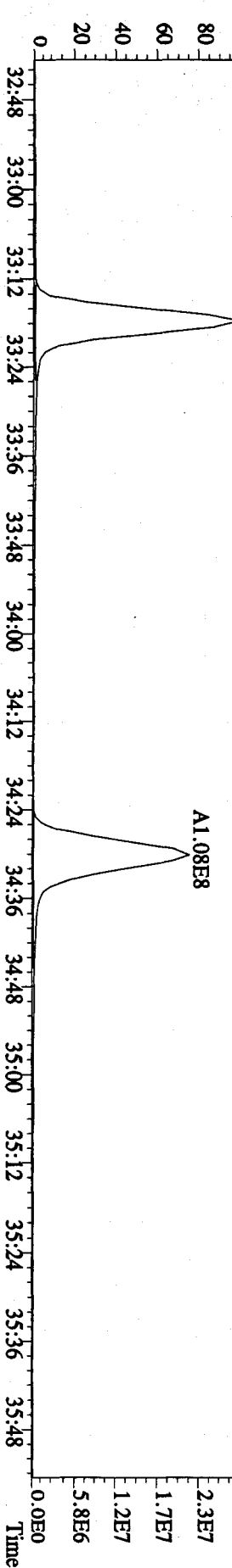
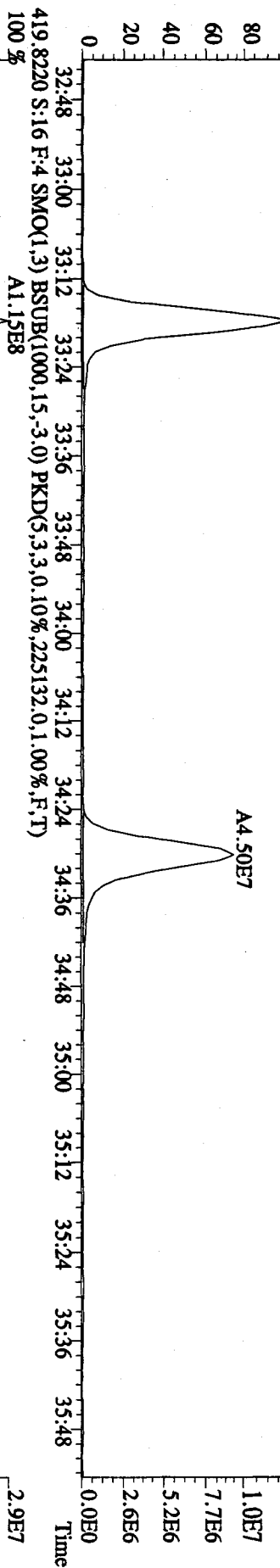
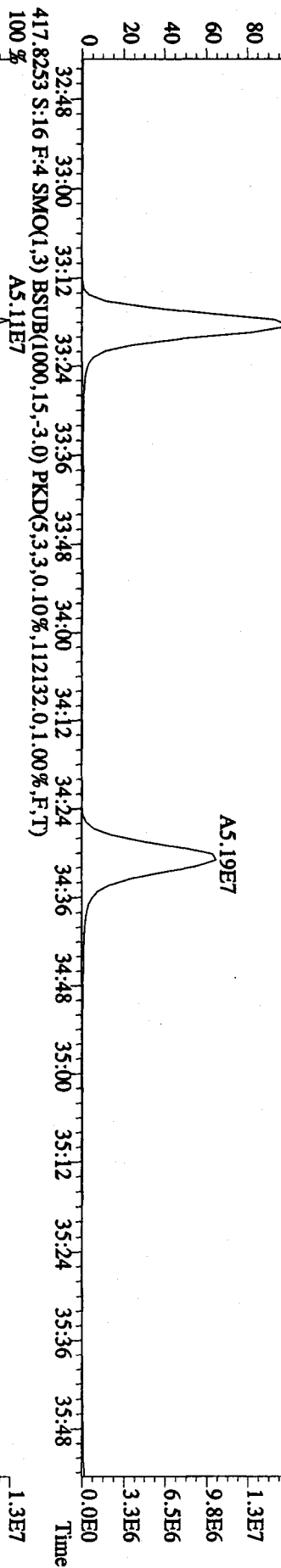
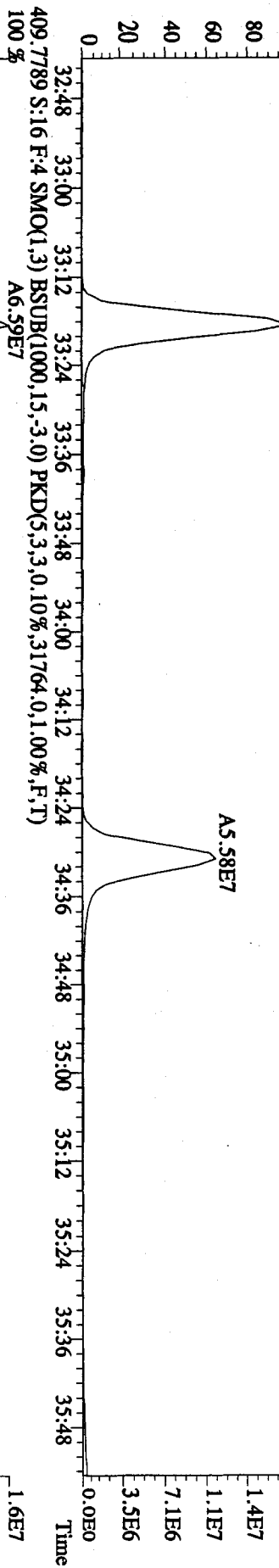
File: 17DE091D5 #1-492 Acq: 17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE
 Sample#16 Text: ST1217A :CS3 09DXN384 Exp: DIOXIN
 373.8208 S:16 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,32988,0,1.00%,F,T)
 100%



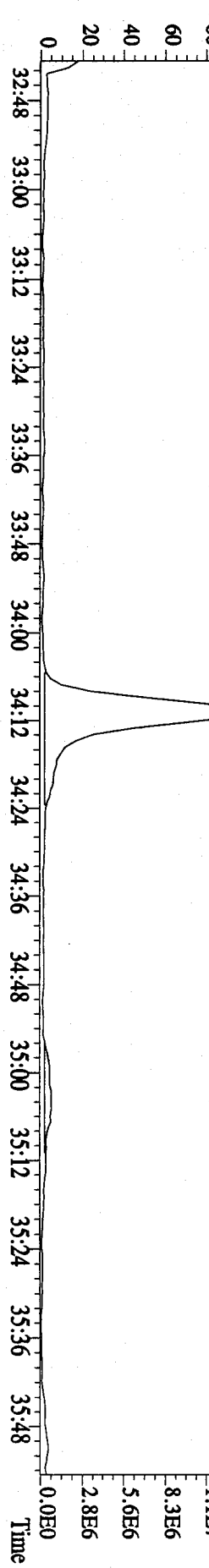
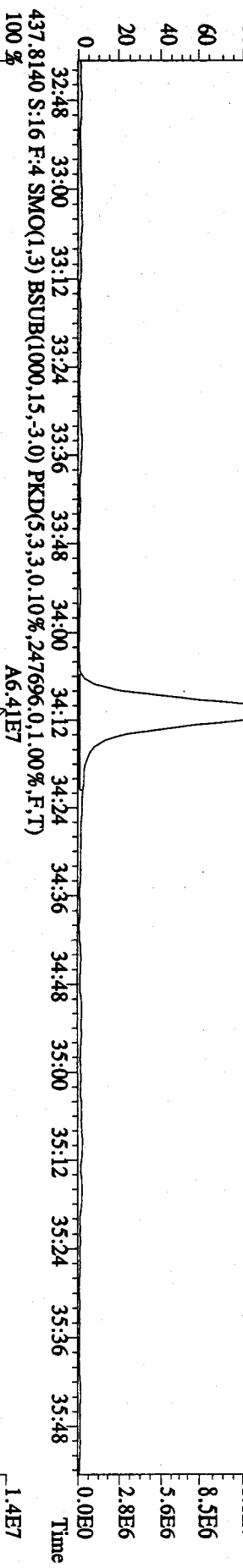
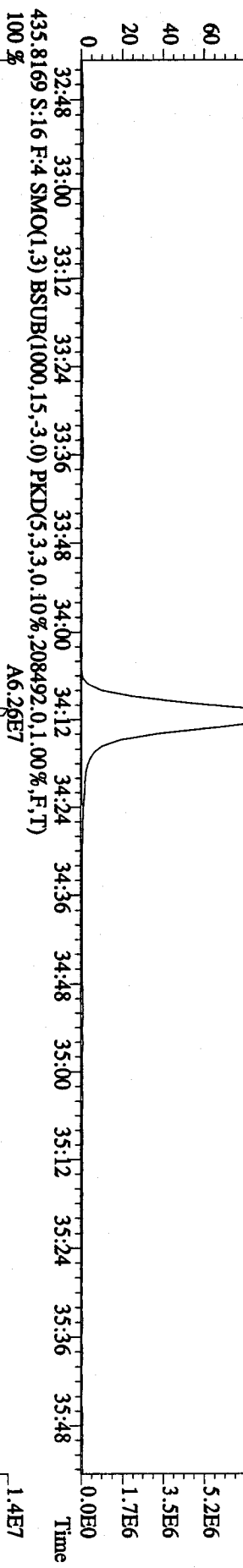
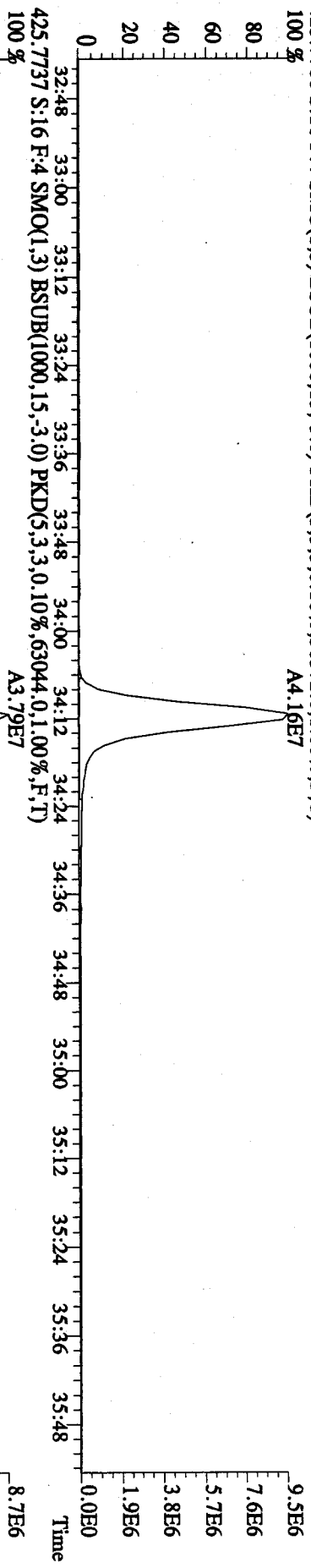
File:17DE091D5 #1-492 Acq:17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE
 Sample#16 Text:ST1217A :CS3 09DXN384 Exp:DIOXIN
 389.8157 S:16 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7132.0,1.00%,F,T)
 100 %



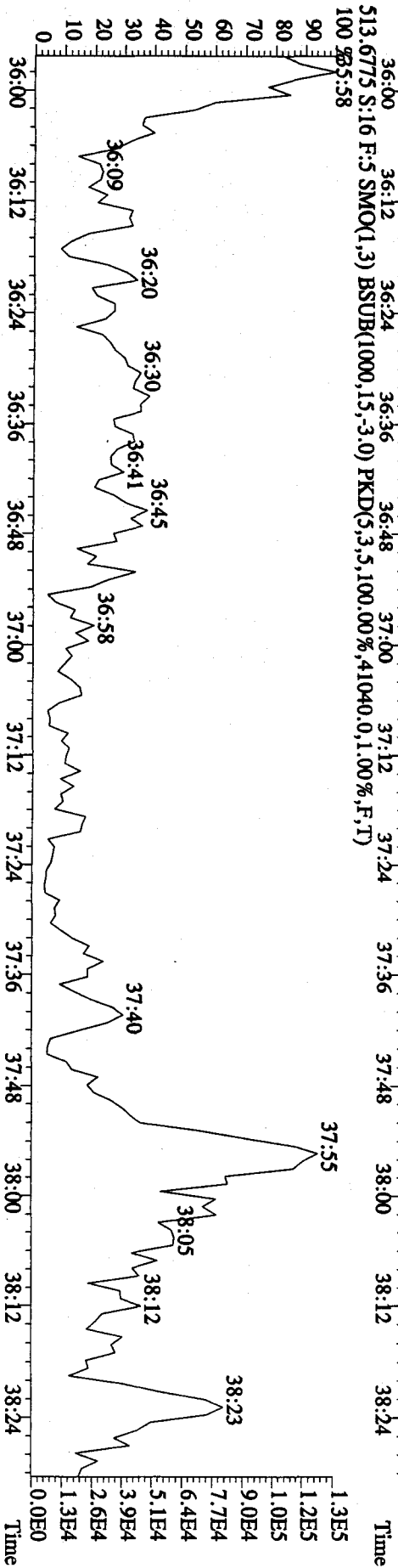
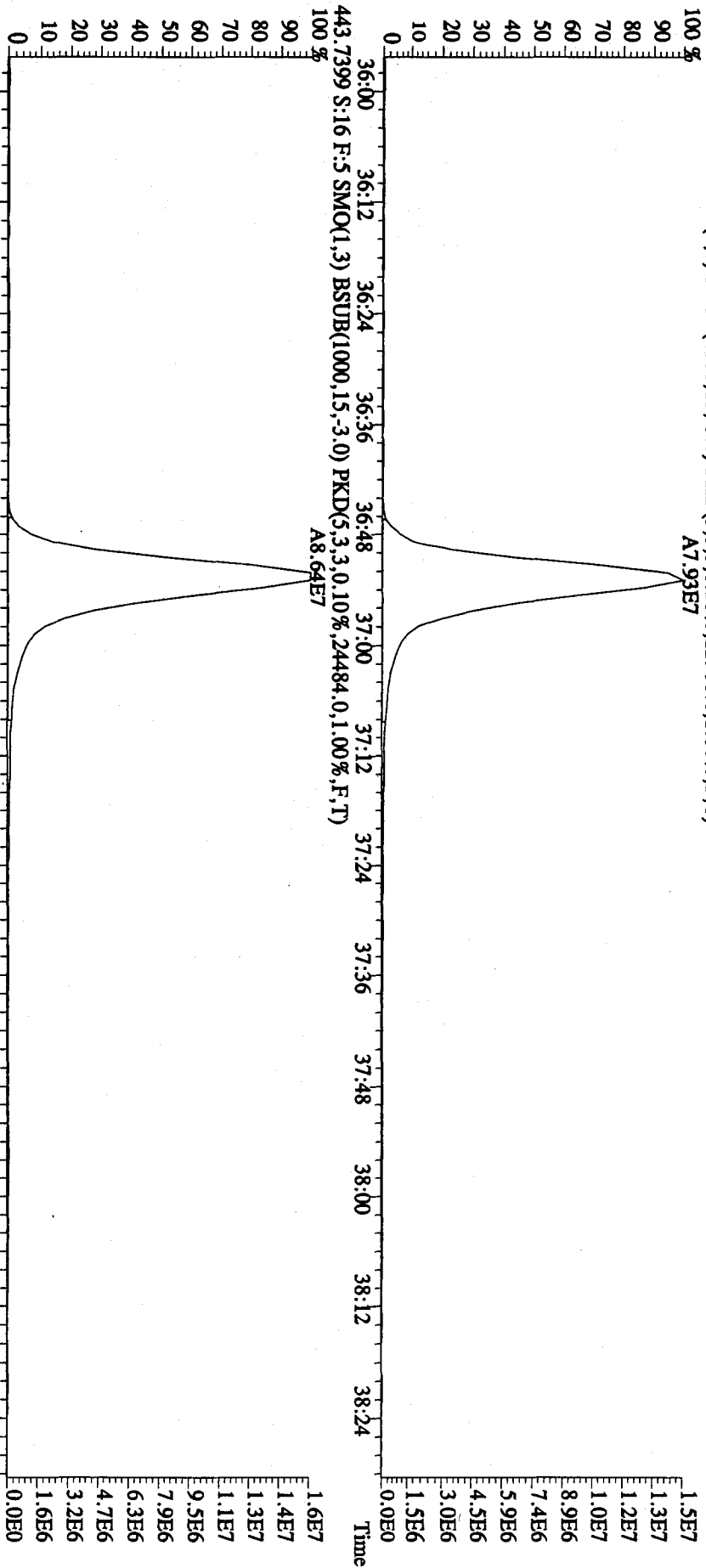
File:17DE091D5 #1-226 Acq:17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE
 Sample#16 Text:ST1217A :CS3 09DXN384 Exp:DIOXIN
 407.7818 S:16 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,29680,0,1.00%,F,T)
 100 %



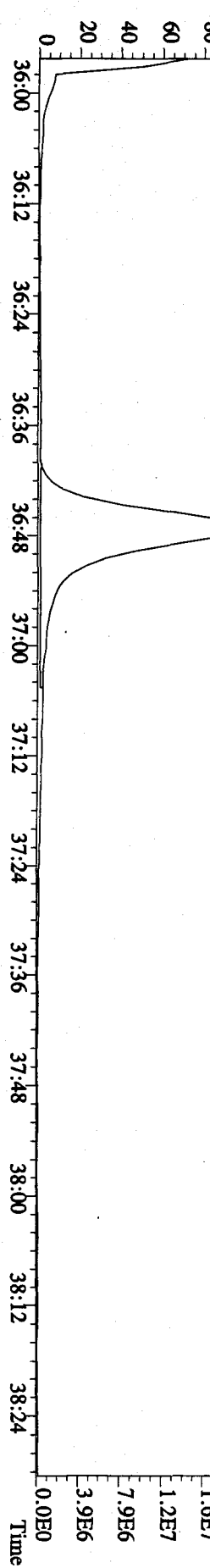
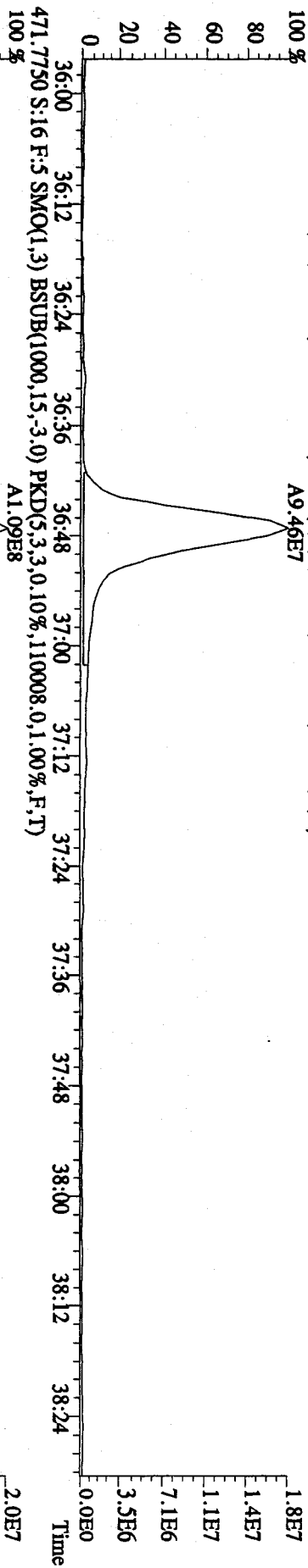
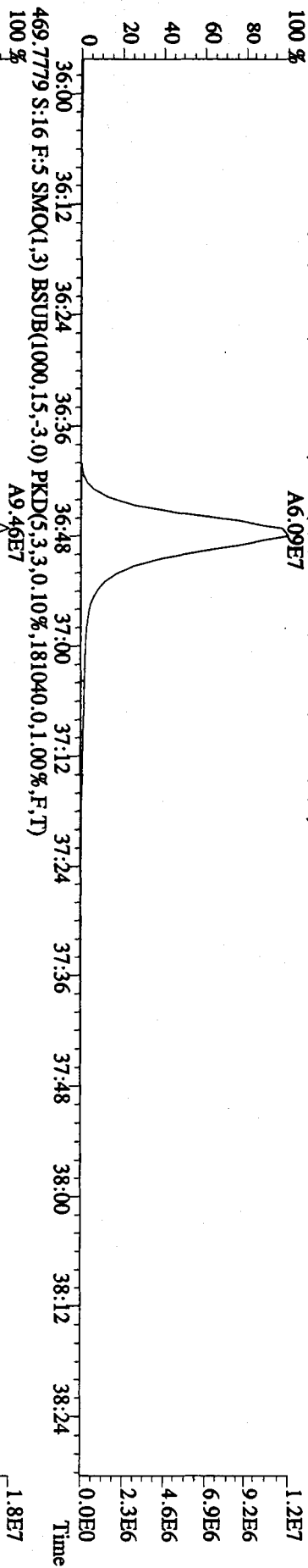
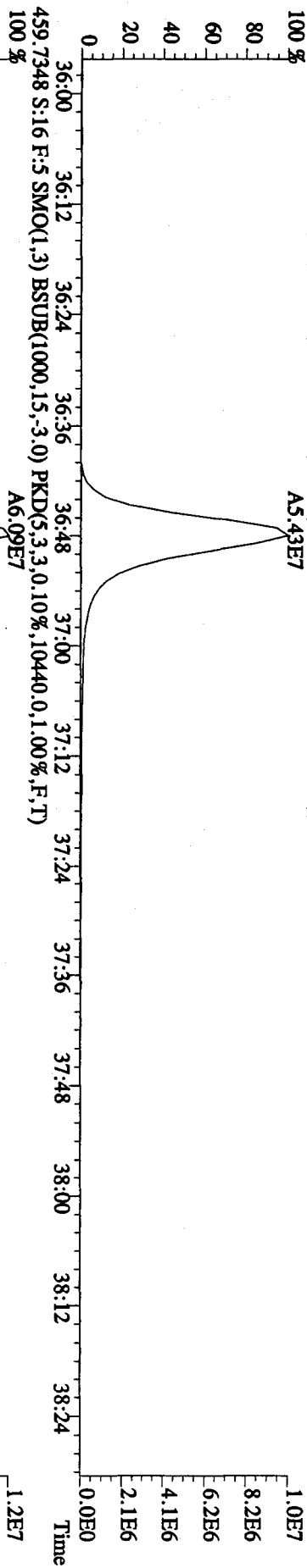
File:17DE091D5 #1-226 Acq:17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE
 Sample#16 Text:ST1217A :CS3 09DDXN384 Exp:DIOXIN
 425.7737 S:16 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.30372,0,1,00%,F,T)
 100 %



File: 17DE091D5 #1-186 Acq: 17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE
 Sample#16 Text: ST1217A :CS3 09DXN384 Exp: DIOXIN
 441.7428 S:16 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,0,10%,22900,0,1,00%,F,T)
 100% A7.93E7



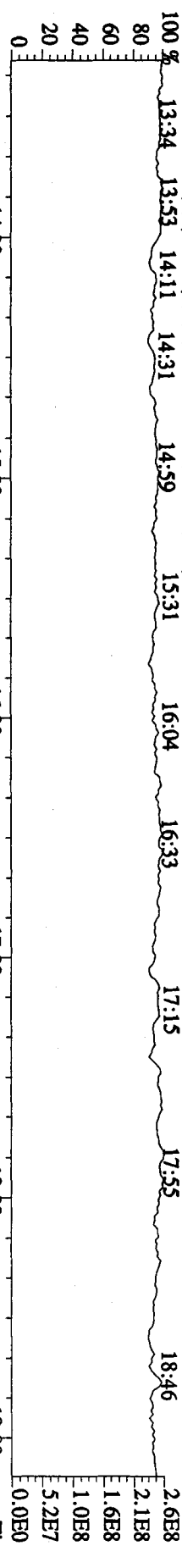
File: 17DE091D5 #1-186 Acq: 17-DEC-2009 19:15:13 GC EI + Voltage SIR 70SE
 Sample#16 Text: ST1217A :CSS 09DXN384 Exp: DIOXIN
 457.7377 S:16 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9616,0,1,100%,F,T)
 100% A5.43E7



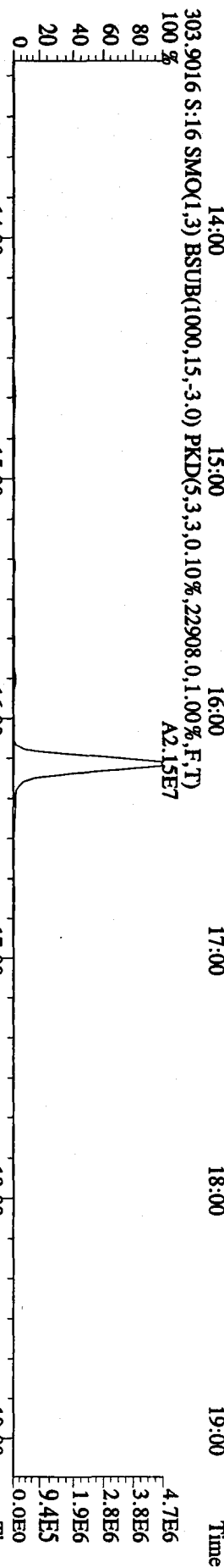
File:17DE091D5 #1-349 Acq:17-DEC-2009 19:15:13 GC EI + Voltage SIR 70SE

Sample#16 Text:ST1217A .CS3 09DXN384 Exp.:DIOXIN

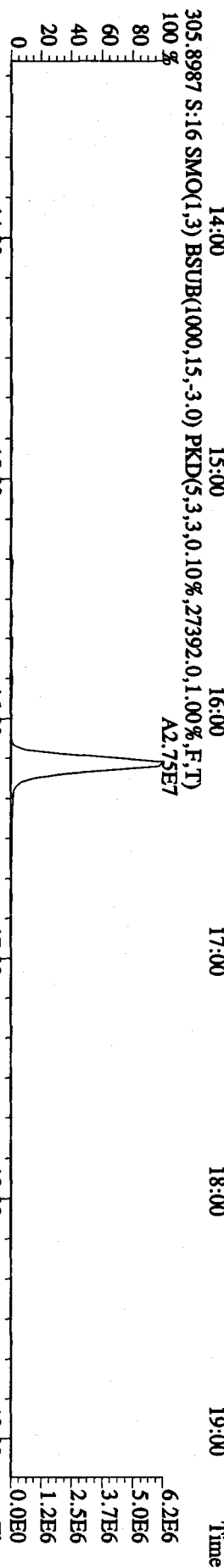
292.9825 S:16 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



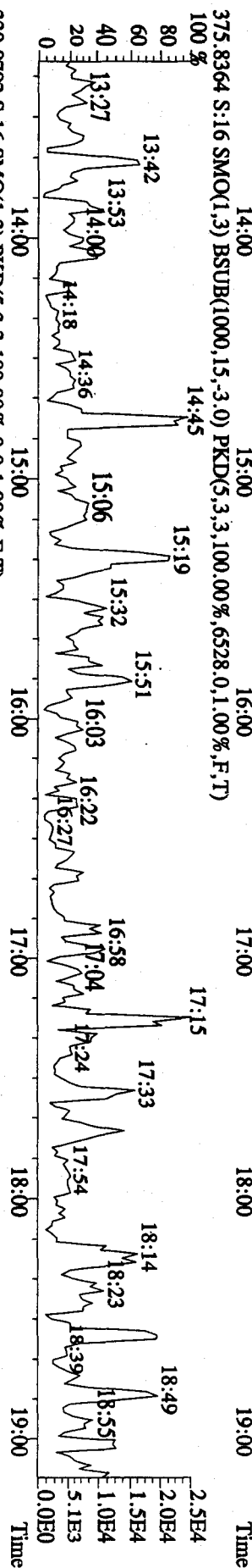
303.9016 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22908.0,1.00%,F,T)



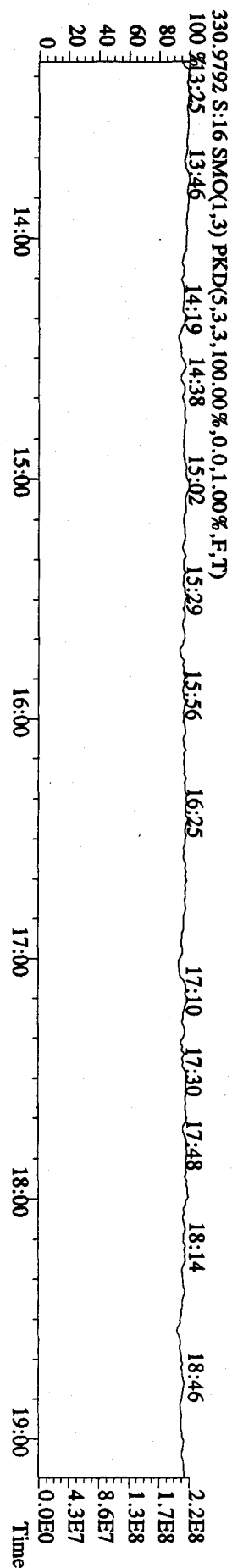
305.8987 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27392.0,1.00%,F,T)



375.8364 S:16 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,6528.0,1.00%,F,T)



330.9792 S:16 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

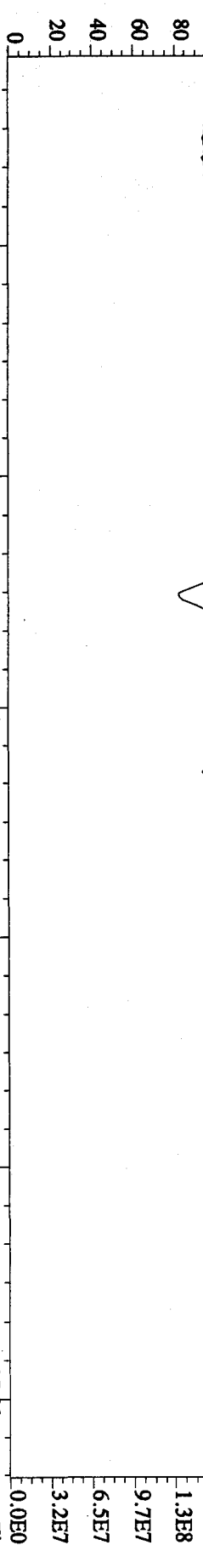


File: 17DE091D5 #1-434 Acq: 17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE

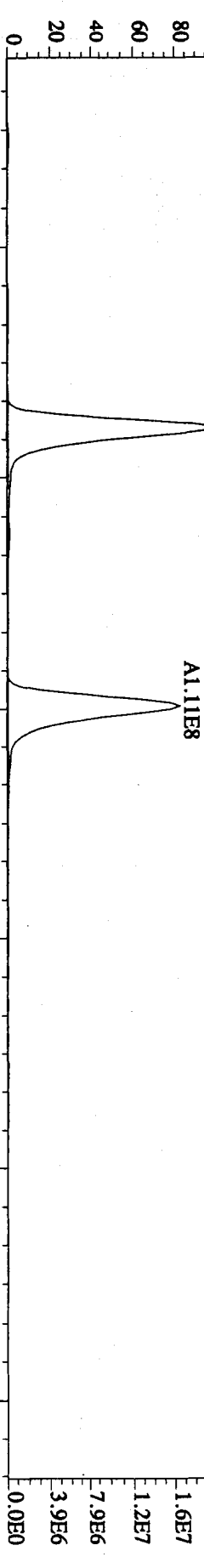
Sample#16 Text: ST1217A :CS3 09DXN384 Exp: DIOXIN

342.9792 S:16 F:2 SMO(1.3) PKD(5.3,3.100,0.0%,0.1,0.0%,F,T)

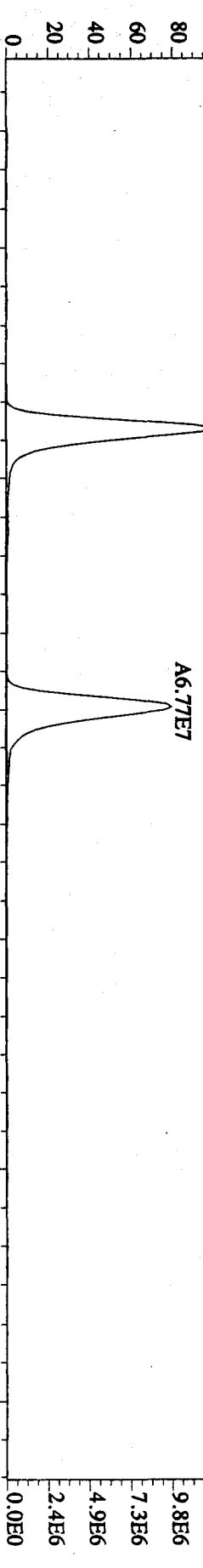
100 % 19:25 19:46 20:13 20:55 21:22 21:45 22:12 22:51 23:13 23:33 24:04 24:23 24:42 25:07



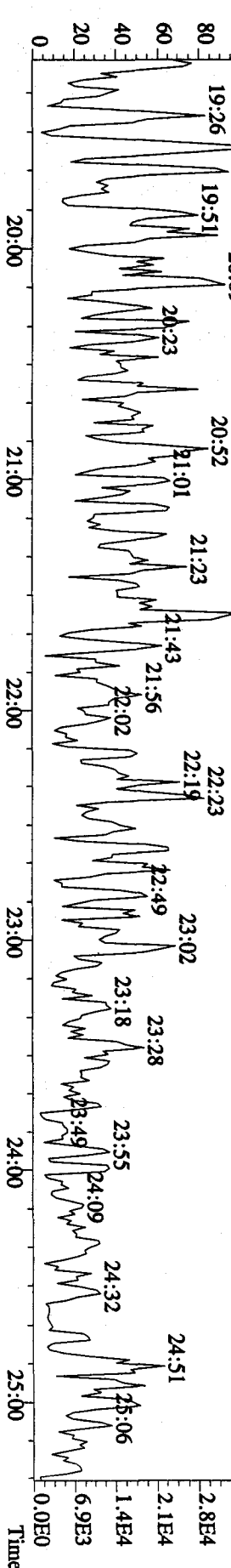
339.8597 S:16 F:2 SMO(1.3) BSUB(1000,15,-3,0) PKD(5.3,3.0,10%,27848,0.1,0.0%,F,T)

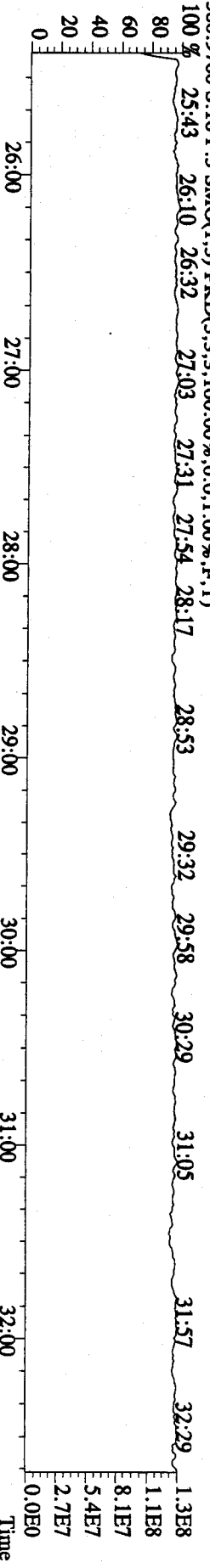
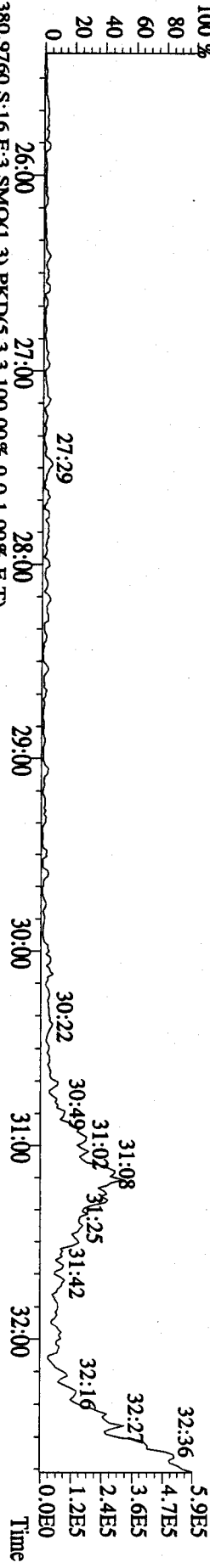
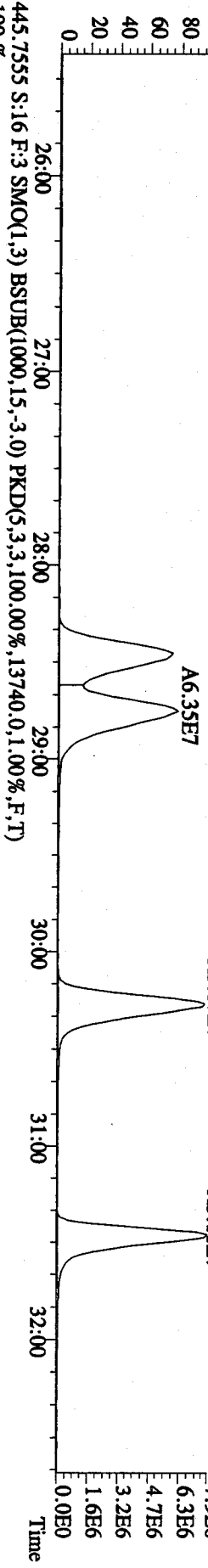
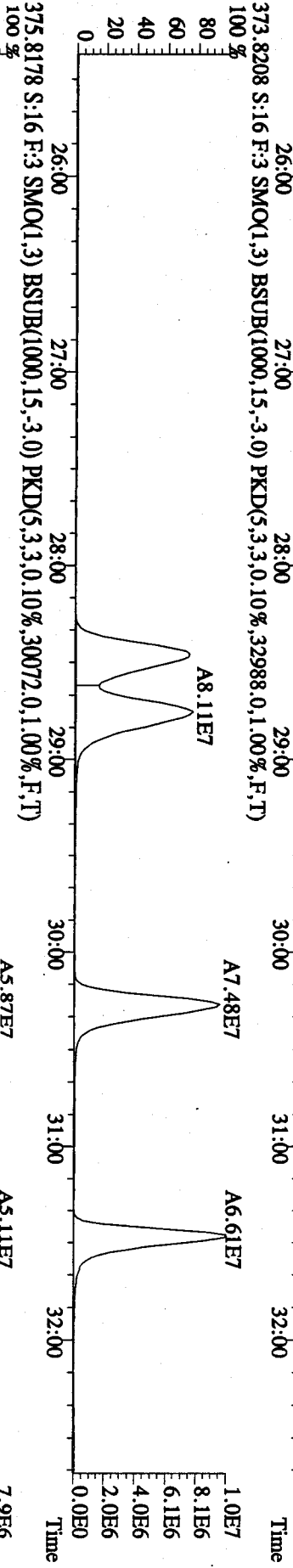
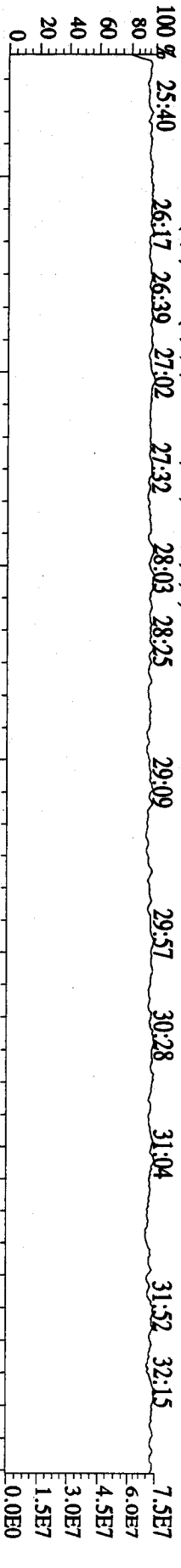


341.8567 S:16 F:2 SMO(1.3) BSUB(1000,15,-3,0) PKD(5.3,3.0,10%,18316,0.1,0.0%,F,T)

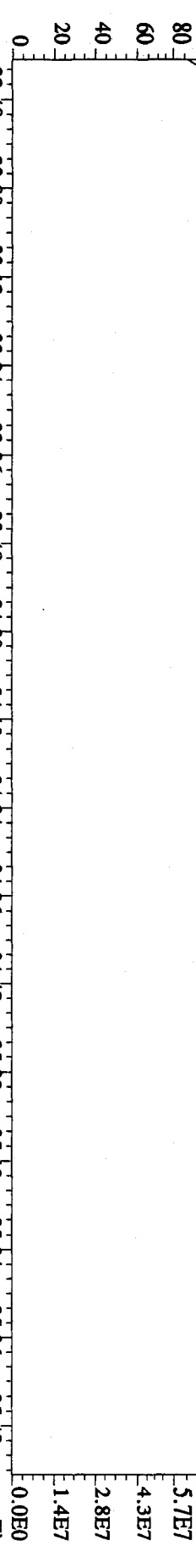


409.7974 S:16 F:2 SMO(1.3) BSUB(1000,15,-3,0) PKD(5.3,3.100,0.0%,18180,0.1,0.0%,F,T)

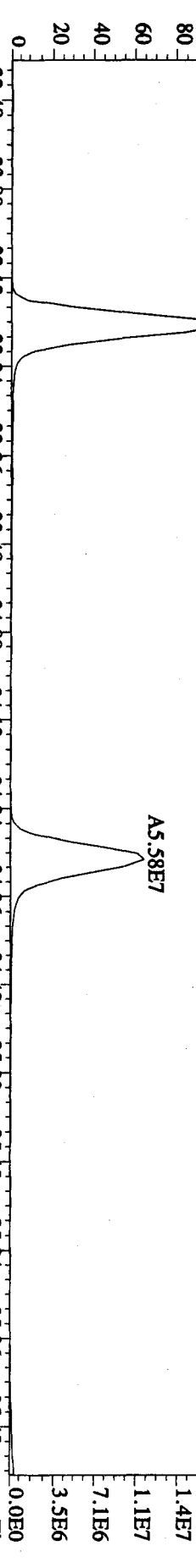




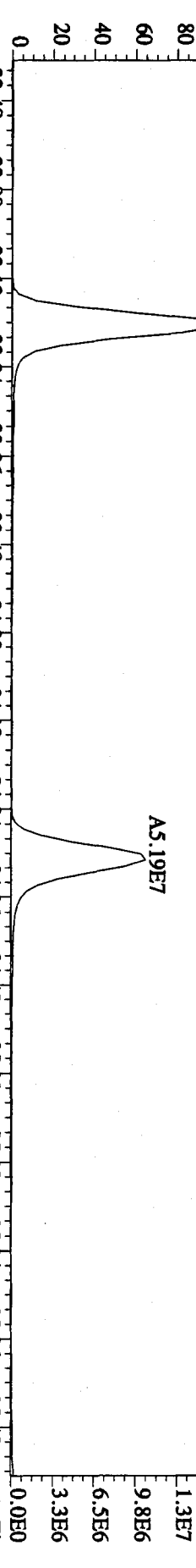
File:17DE091D5 #1-226 Acq:17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE
 Sample#16 Text:ST1217A :CS3 09DDXN384 Exp:DIOXIN
 430.9728 S:16 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 32:49 33:06 33:19 33:36 34:02 34:16 34:40 34:53 35:14 35:41



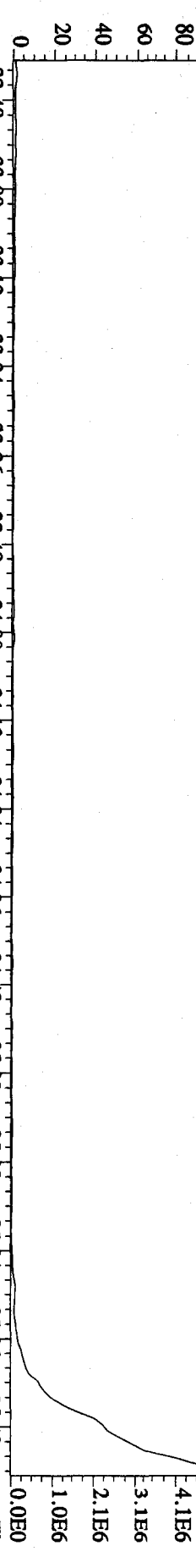
407.7818 S:16 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,29680,0,1.00%,F,T)
 100 % A7.10E7 A5.58E7



409.7789 S:16 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,31764,0,1.00%,F,T)
 100 % A6.59E7 A5.19E7



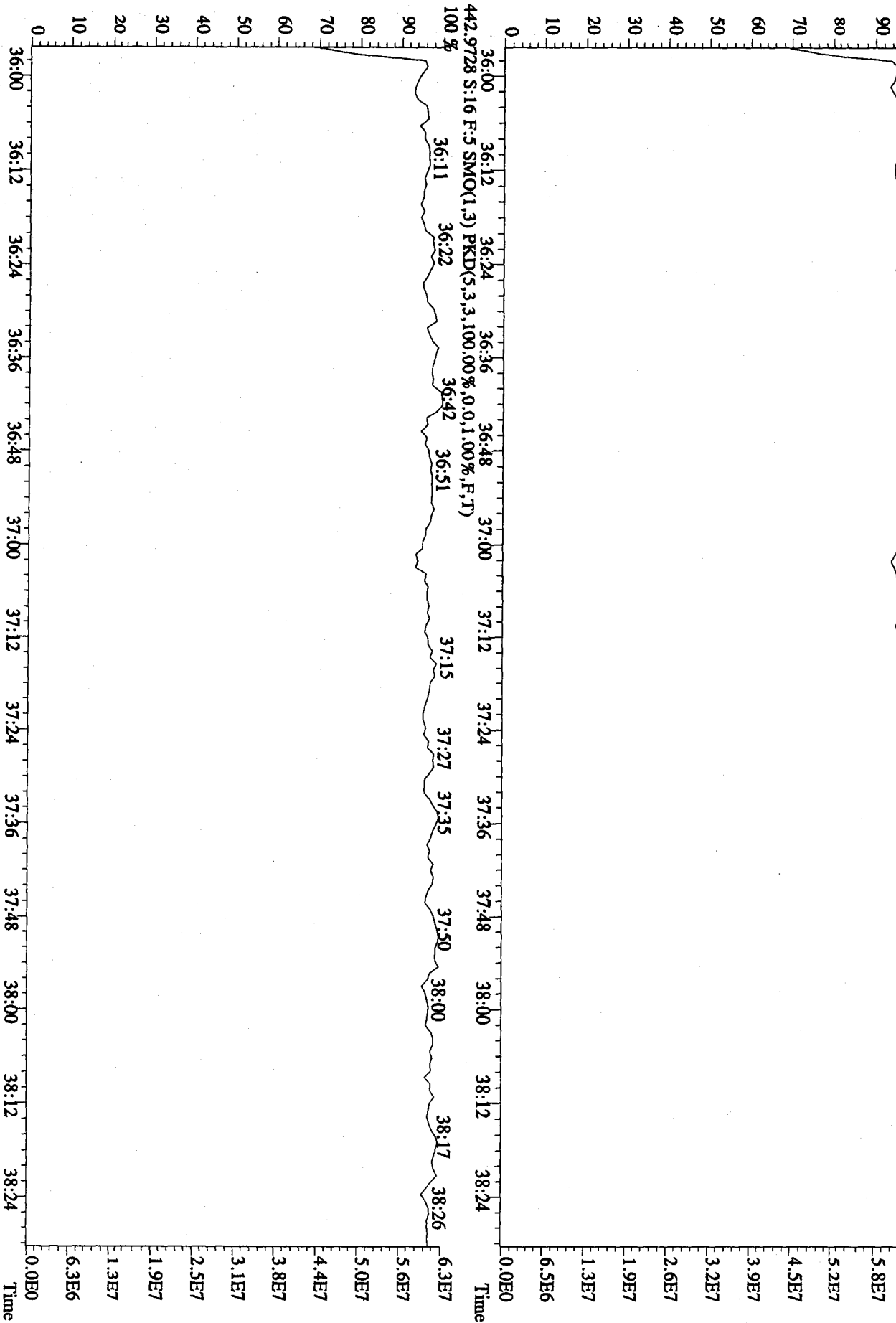
479.7165 S:16 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,21348,0,1.00%,F,T)
 100 % 35:54



File:17DE091D5 #1-186 Acq:17-DEC-2009 19:15:13 GC EI+ Voltage SIR 70SE

Sample#16 Text:ST1217A :CS3 09DDXN384 Exp:DIOXIN

454.9728 S:16 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



Daily Calibration Checklist
Dioxin Methods

Method ID 8290

Associated ICAL DB225102109502

Column ID DB225

Instrument ID 502

STD ID ST1230A, ST1230B

STD Solution CS3 090XN384

Analyzed by KGS, AJP

Date Analyzed 12/30/09

Std. Pkg. By KGS

Date Std. Pkg. Assembled 12/31/09

Std. Pkg. Reviewed By M.G.

Date Std. Pkg. Reviewed 12/31/09

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 \leq method specified limits?**	/	/
Are chromatographic windows correct?	/	/
Samples analyzed within 12 hrs of daily standard?	/	/
Manual reintegration's checked and hardcopies included?	NK	NA
Ending Standard present?	/	/
Ending Static Resolutions present	/	/
Absolute retention times for 13C12-1,2,3,4-TCDD and 13C12-1,2,3,7,8,9-HxCDD are within +/- 15 seconds of the retention times in the Initial Calibration? (required for all 1613B samples)	NA	NA

COMMENTS: _____

* Method 8290/TO9/M0023A: (beginning) \leq 20% from curve RRFs for native analytes, \leq 30% from curve RRFs for labeled compounds.
 Method 8290/TO9/M0023A: (ending) \leq 25% from curve RRFs for native analytes, \leq 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: ST1230A
Run #6 Filename 30DE09B5D2 S: 2
Acquired: 30-DEC-09 15:53:01
Run: 210C095D2 Analyte: DB225

File text: CS3 09DXN384
I: 1
Processed: 30-DEC-09 16:13:41
Cal: DB2251021095D2 Results: 30DE09B5D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	139331700	0.80 y	14:28	-	100.00	-	n
13C-2,3,7,8-TCDF	257721000	0.78 y	15:34	1.85	100.00	-6.4	n
2,3,7,8-TCDF	27627400	0.82 y	15:35	1.07	10.00	-9.1	n
13C-2,3,7,8-TCDD	129631400	0.78 y	14:15	0.93	100.00	-4.2	n
2,3,7,8-TCDD	21200790	0.81 y	14:16	1.64	10.00	8.6	n
37Cl-2,3,7,8-TCDD	36541600	1.00 y	14:16	2.62	10.00	-3.0	n

Run text: ST1230B File text: ST1230B :CS3 09DXN384
 Run #17 Filename 30DE09B5D2 S: 14 I: 1
 Acquired: 30-DEC-09 23:17:43 Processed: 31-DEC-09 10:31:58
 Run: 30DE09B5D2 Analyte: DB225 Cal: DB2251021095D2 Results: 30DE09B5D2DB225

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	137697168	0.76 y	14:28	-	100.00	-	n
13C-2,3,7,8-TCDF	258127920	0.79 y	15:33	1.87	100.00	-5.1	n
2,3,7,8-TCDF	26251387	0.85 y	15:35	1.02	10.00	-13.8	n
13C-2,3,7,8-TCDD	131755016	0.74 y	14:14	0.96	100.00	-1.4	n
2,3,7,8-TCDD	21601473	0.79 y	14:15	1.64	10.00	8.9	n
37C1-2,3,7,8-TCDD	39884384	1.00 y	14:15	2.90	10.00	7.1	n

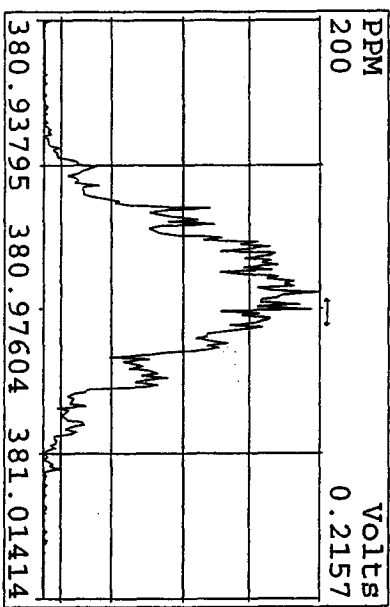
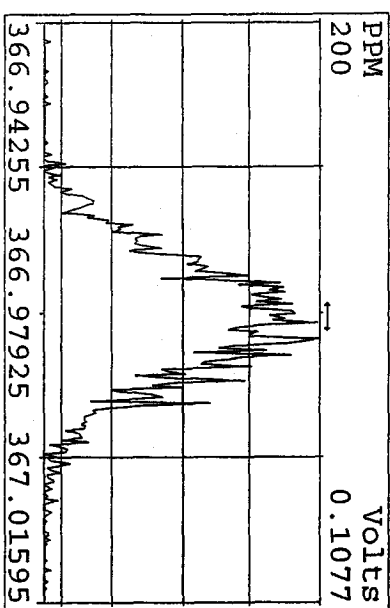
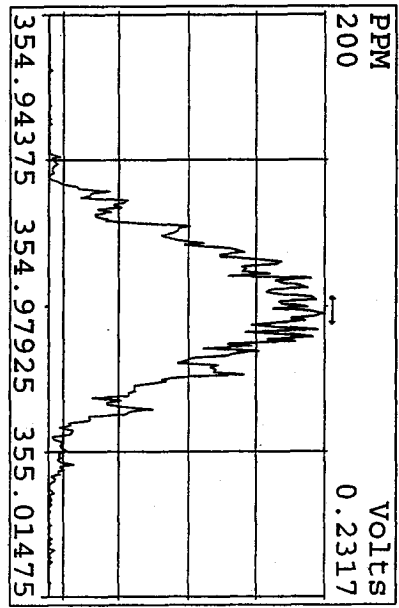
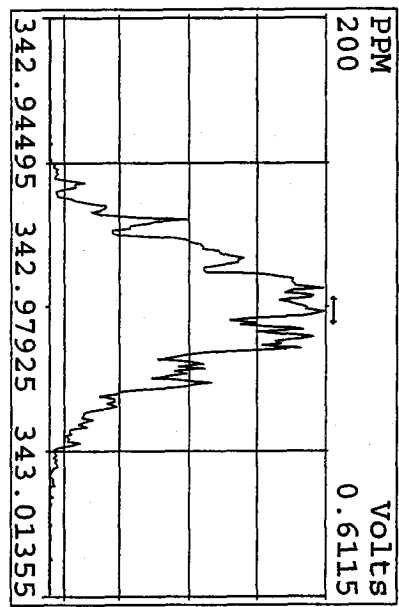
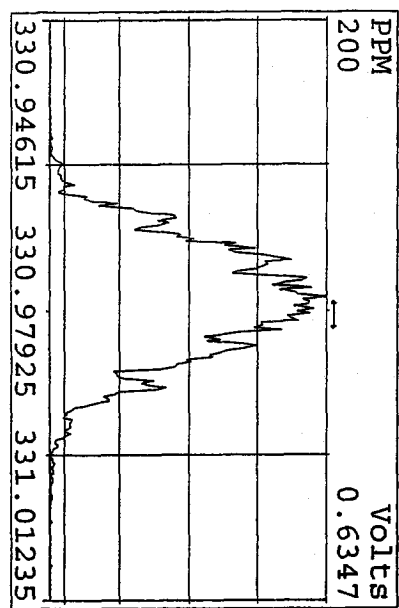
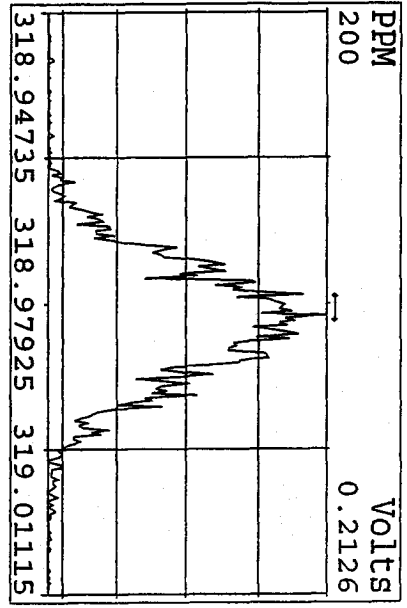
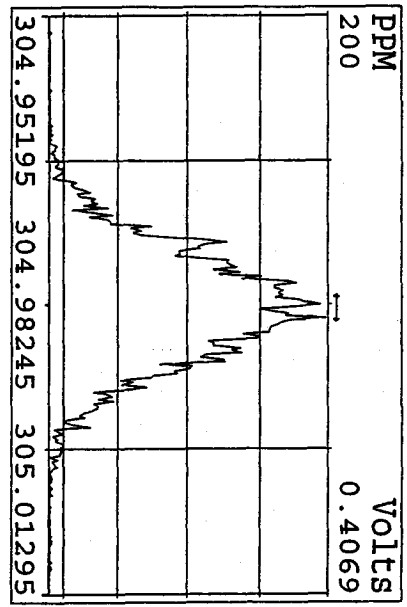
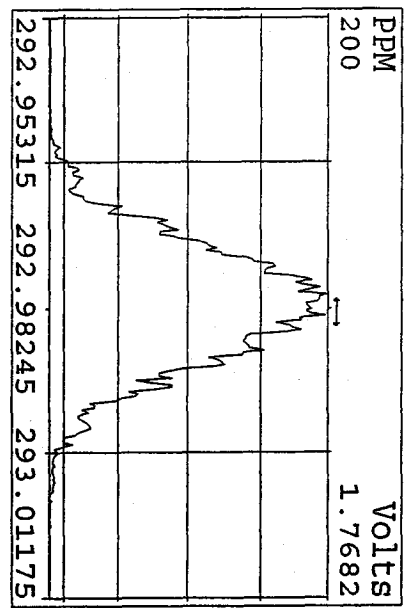
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
30DE09B5D2	1	CP1230A	DB-225 CPSM 3732-01				1.000	
30DE09B5D2	2	ST1230A	CS3 09DXN384				1.000	
30DE09B5D2	3	SB1230A	Solvent Blank C-14				1.000	
30DE09B5D2	4	LRDGT-1-AA	G9L180608-1	20	1613BDW/WATERS	75	1.027	L
30DE09B5D2	5	LRDJW-1-AA	G9L180617-1	20	1613BDW/WATERS		1.024	L
30DE09B5D2	6	LREK1-1-AA	G9L190499-1	20	1613BDW/WATERS		1.017	L
30DE09B5D2	7	LRJ37-1-AA	G9L230489-1	20	1613BDW/WATERS		1.028	L
30DE09B5D2	8	LQ9HC-1-AC	G9L170566-1	20	8290/SOLID	73	10.050	g
30DE09B5D2	9	LQ025-1-AA	G9L110588-24	10	8290/WATER	64	1.049	L
30DE09B5D2	10	LQ224-1-AA	G9L120491-9	10	8290/WATER		1.052	L
30DE09B5D2	11	LQ01D-2-AC	G9L110588-5RX	20	8290/SOLID	71	0.224	g
30DE09B5D2	12	LQ010-2-AC	G9L110588-15RX	20	8290/SOLID		0.326	g
30DE09B5D2	13	SB1230B	Solvent Blank C-14				1.000	
30DE09B5D2	14	ST1230B	CS3 09DXN384				1.000	
30DE09B5D2	15						1.000	
30DE09B5D2	16						1.000	
30DE09B5D2	17						1.000	
30DE09B5D2	18						1.000	
30DE09B5D2	19						1.000	
30DE09B5D2	20						1.000	
30DE09B5D2	21						1.000	

KSS, AM 12-30-09 LOGFILE ✓/id

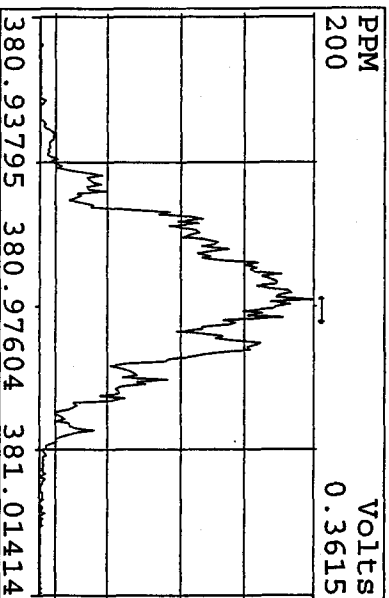
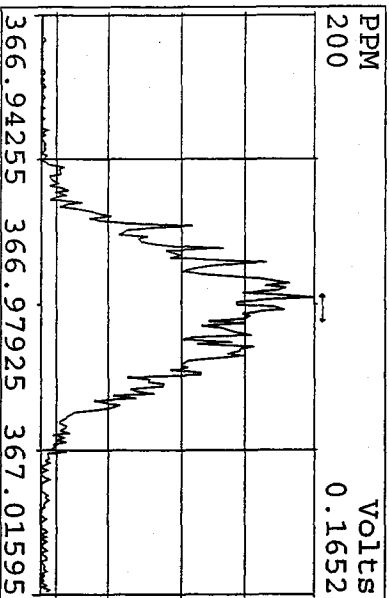
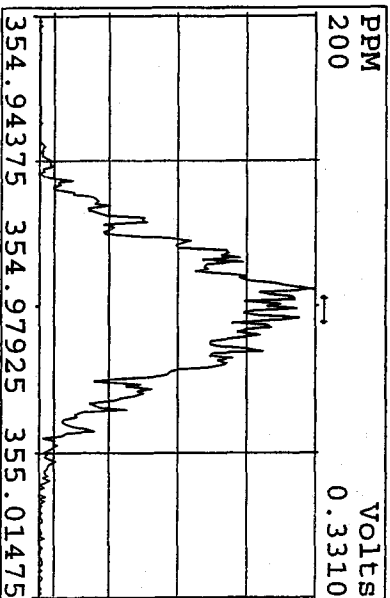
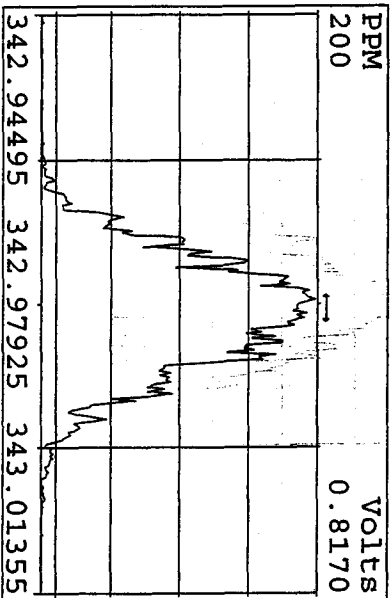
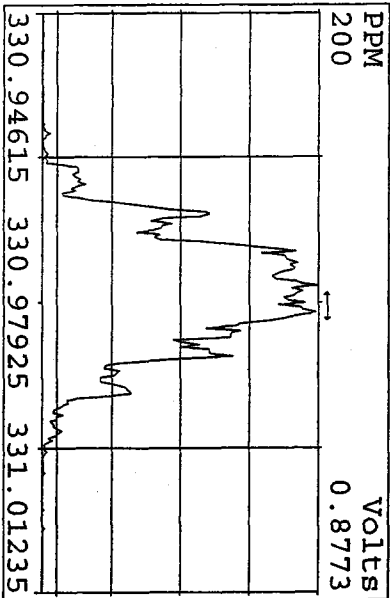
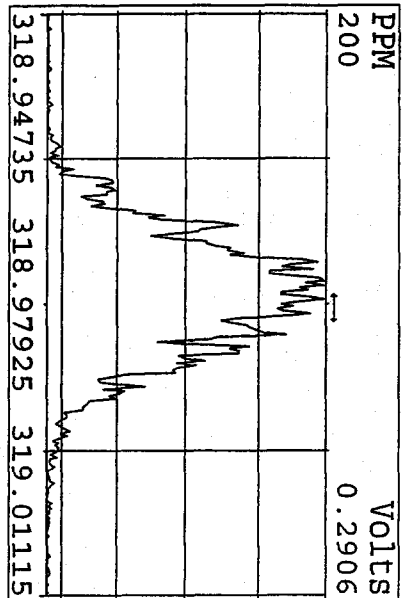
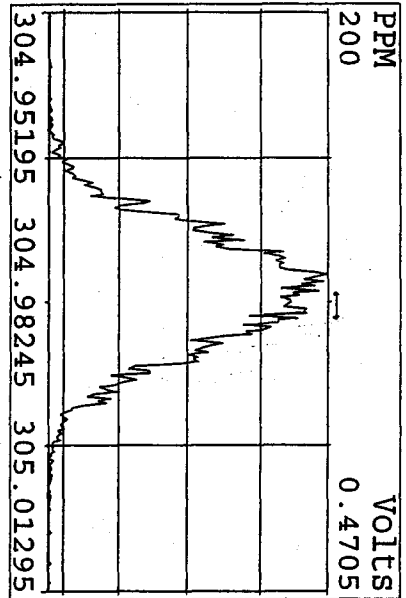
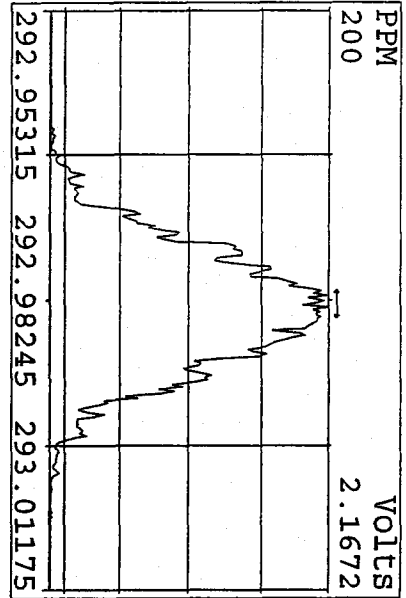
12-31-09

KSS

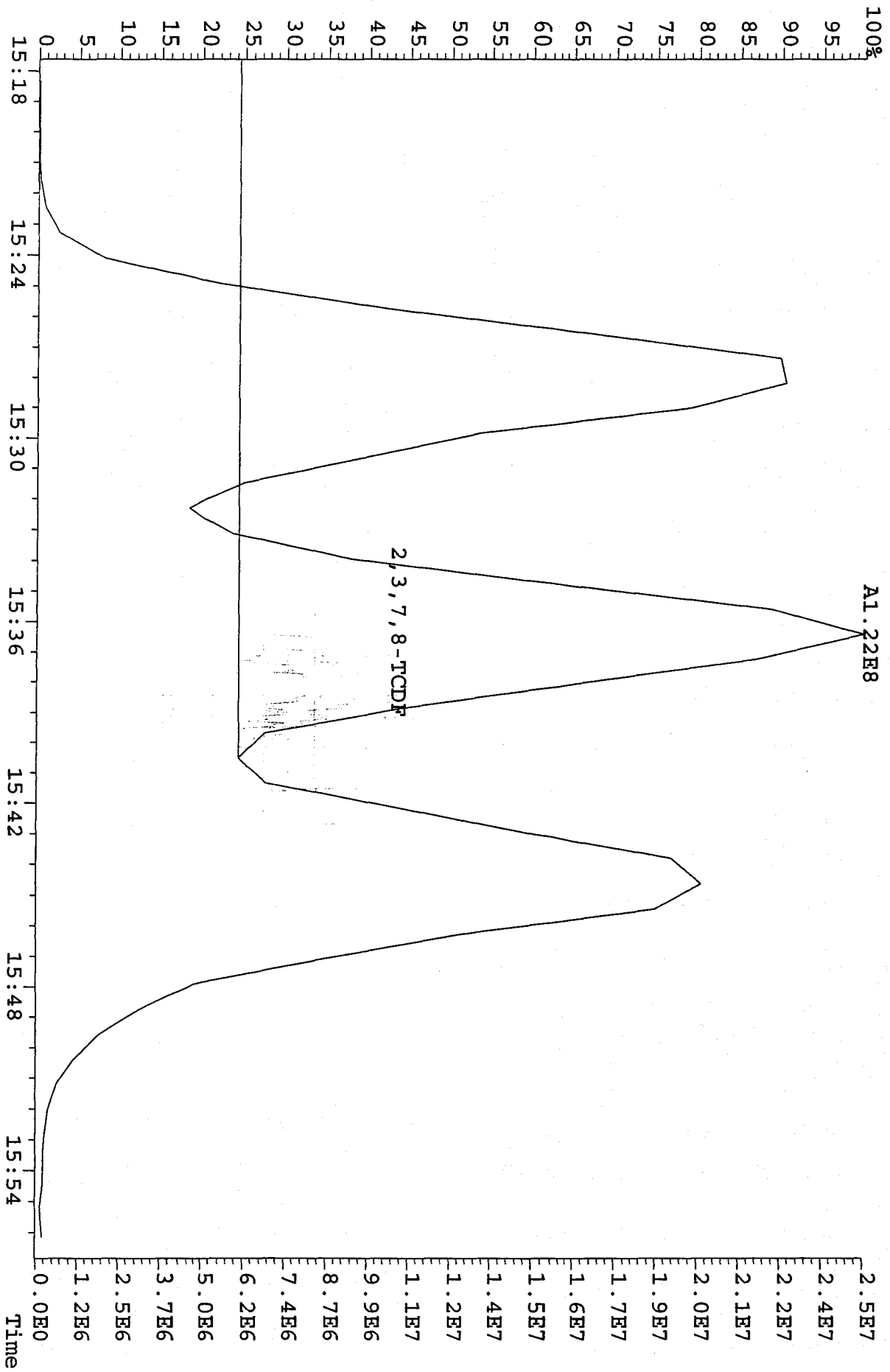
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 Experiment: DB225 Function: 1 Reference: PFK



Peak Locate Examination: 31-DEC-2009: 00:00 File: RESCHK30DE09B5D2
 Experiment: DB225 Function: 1 Reference: PFK



File: 30DE09B5D2 #1-1083 Acq: 30-DEC-2009 15:15:55 GC FI+ Voltage SIR 70SE
 305.8987 BSUB(128,15,-3.0) Exp: DB225 Noise: 2828

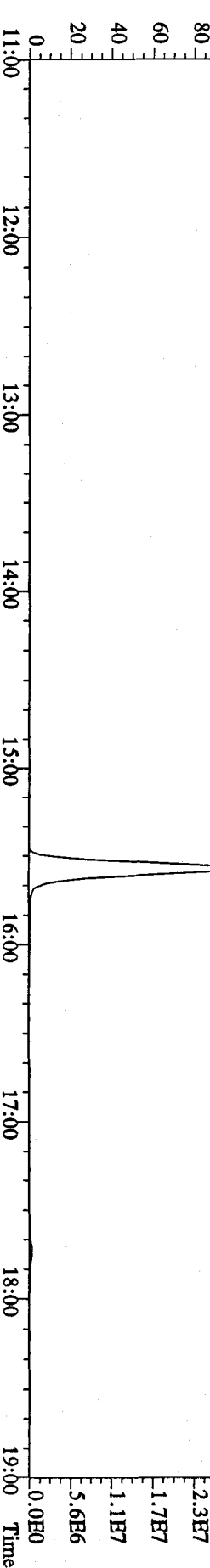
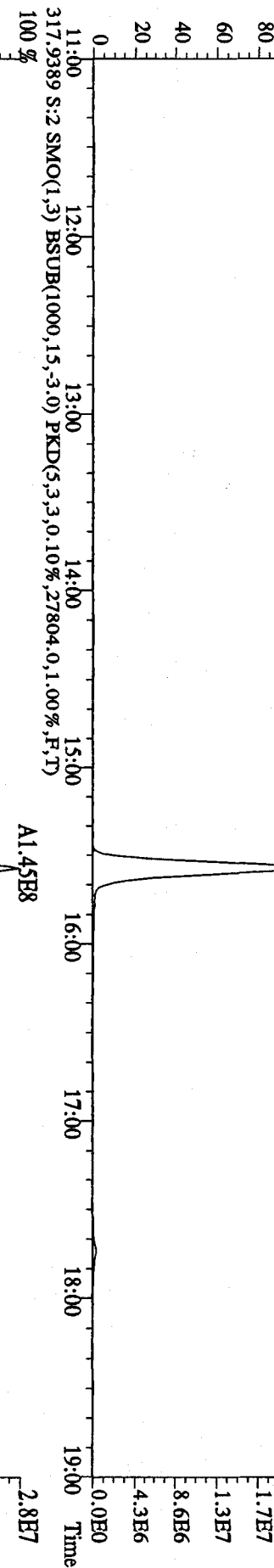
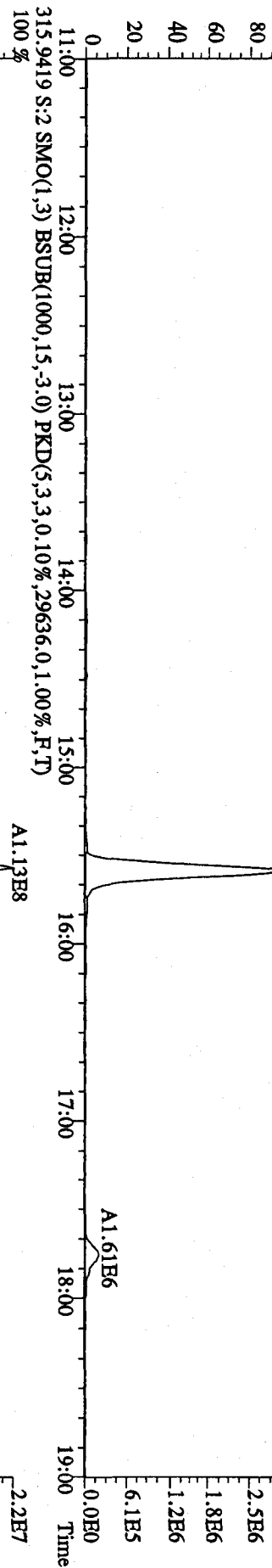
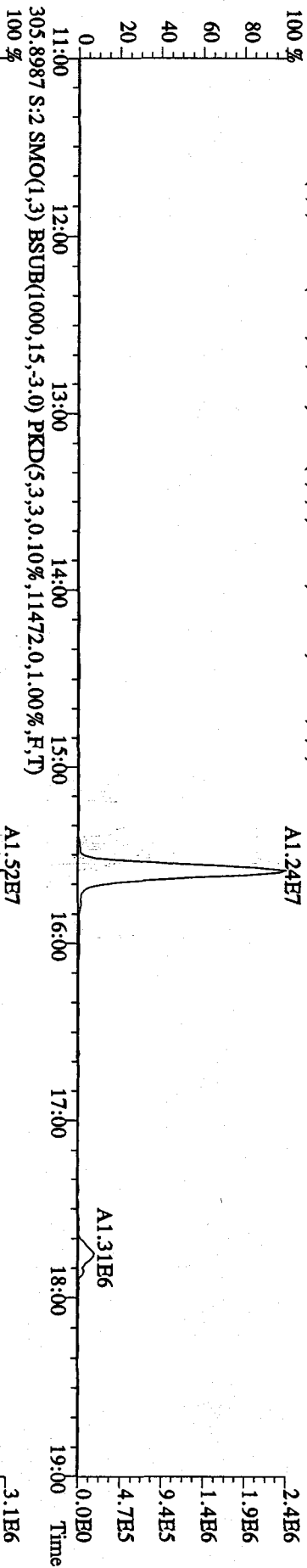


Run: 210C095D2 Analyte: DB225 Cal: DB2251021095D2

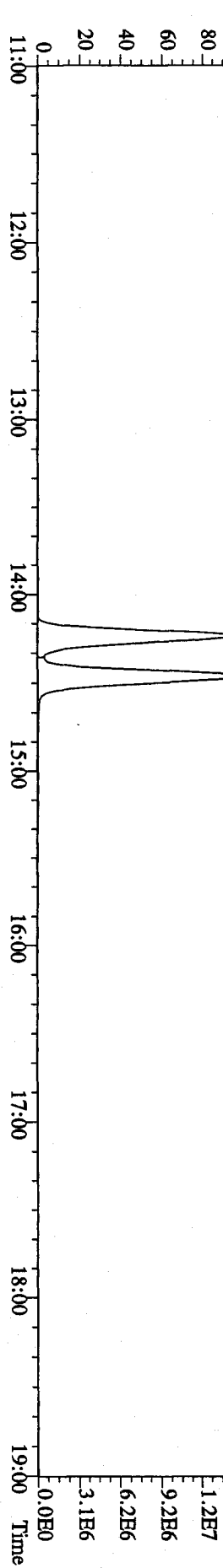
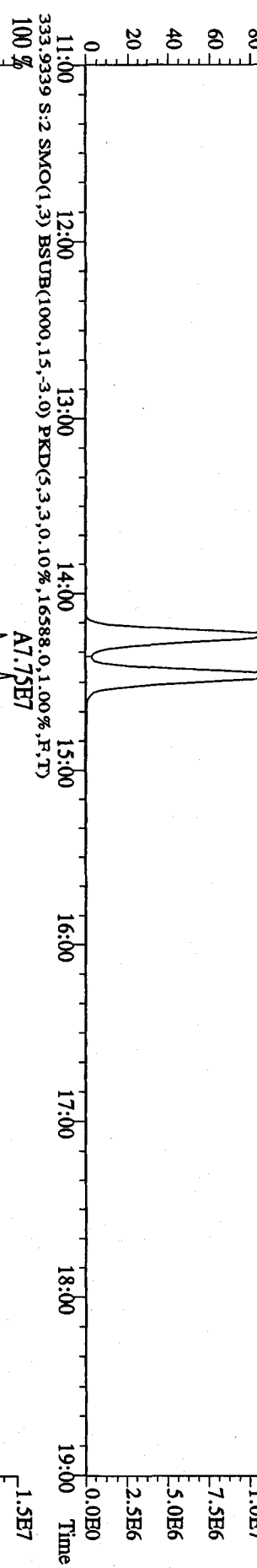
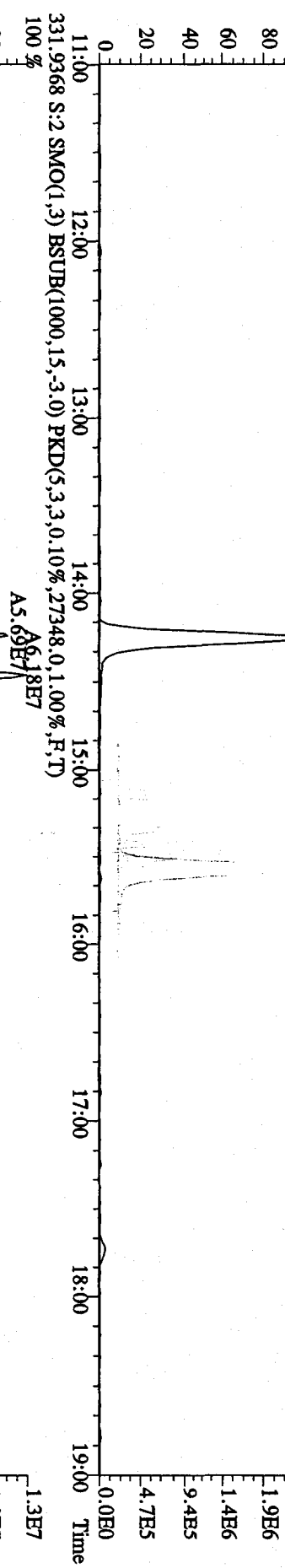
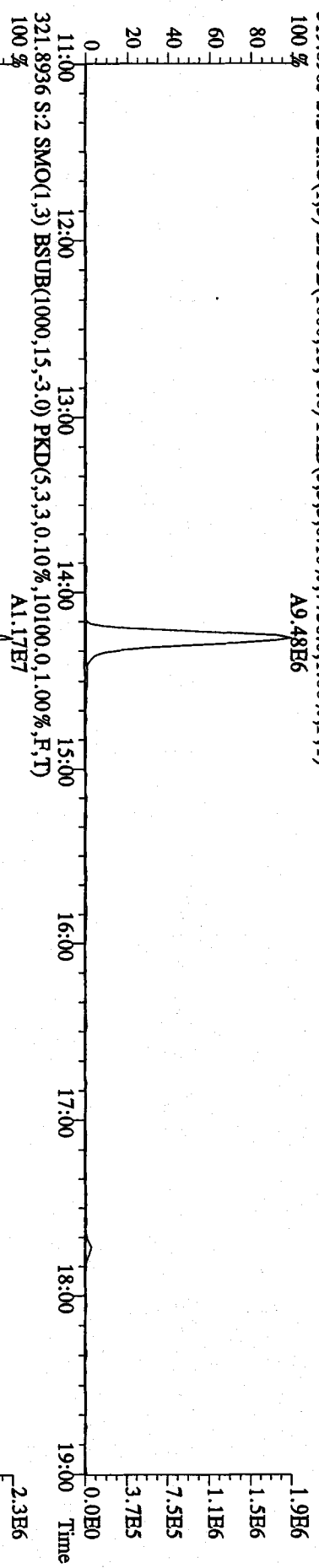
ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	210C095D2				
				S3	S4	S5	S6	S7
				RRF1	RRF2	RRF3	RRF4	RRF5
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46
37Cl-2,3,7,8-TCDD	2.705	0.282	10.4 %	2.28	2.70	2.80	3.06	2.68

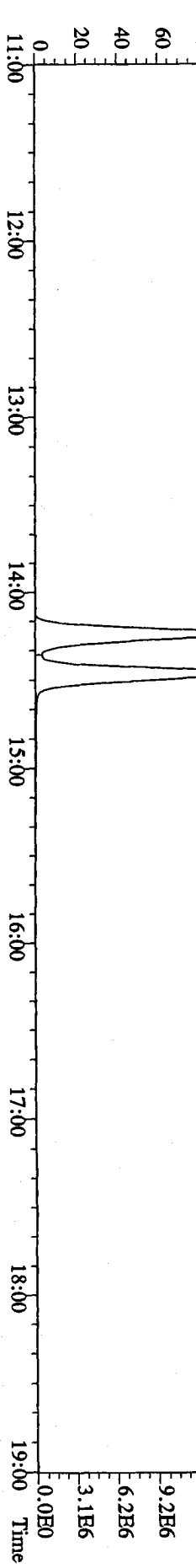
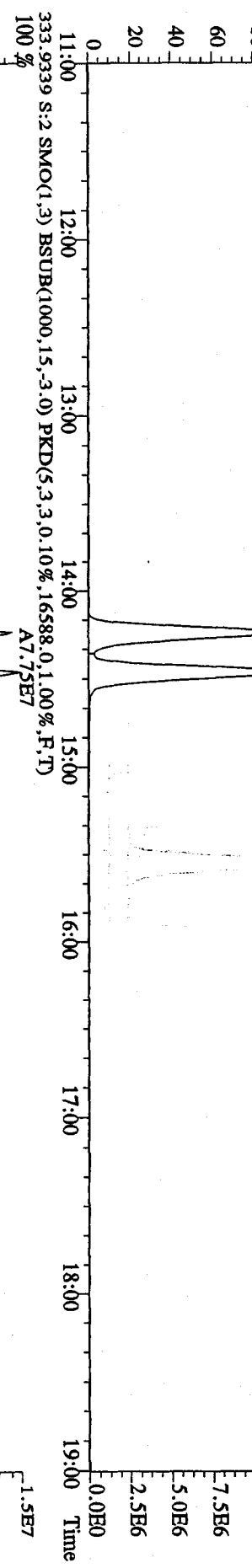
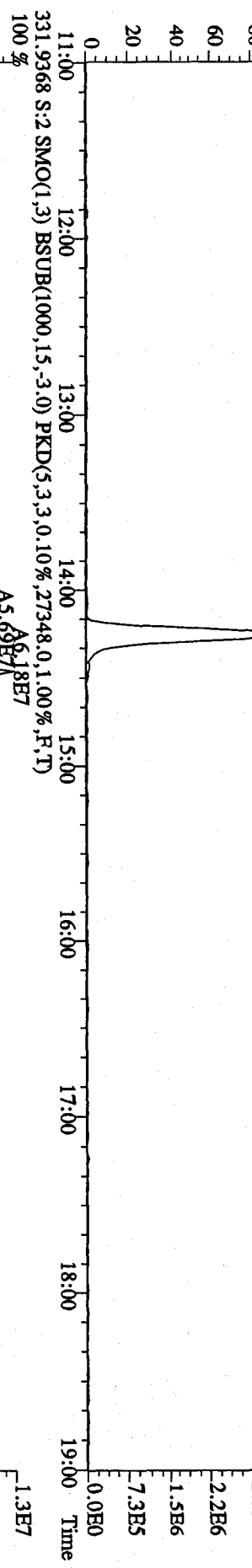
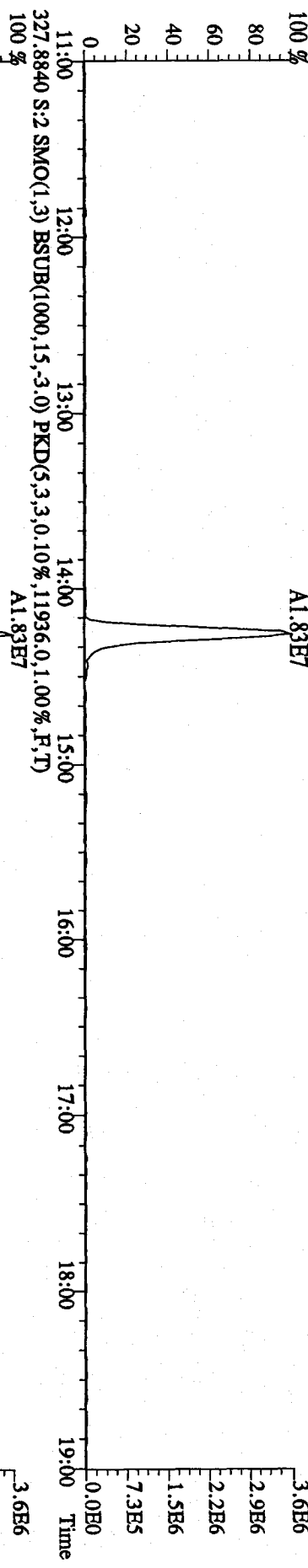
File:30DE09B5D2 #1-1242 Acq:30-DEC-2009 15:53:01 GC FI + Voltage SIR 70SE
 Sample#2 Text:ST1230A :CS3 09DXN384 Exp:DB225
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7624,0,1,00%,F,T)



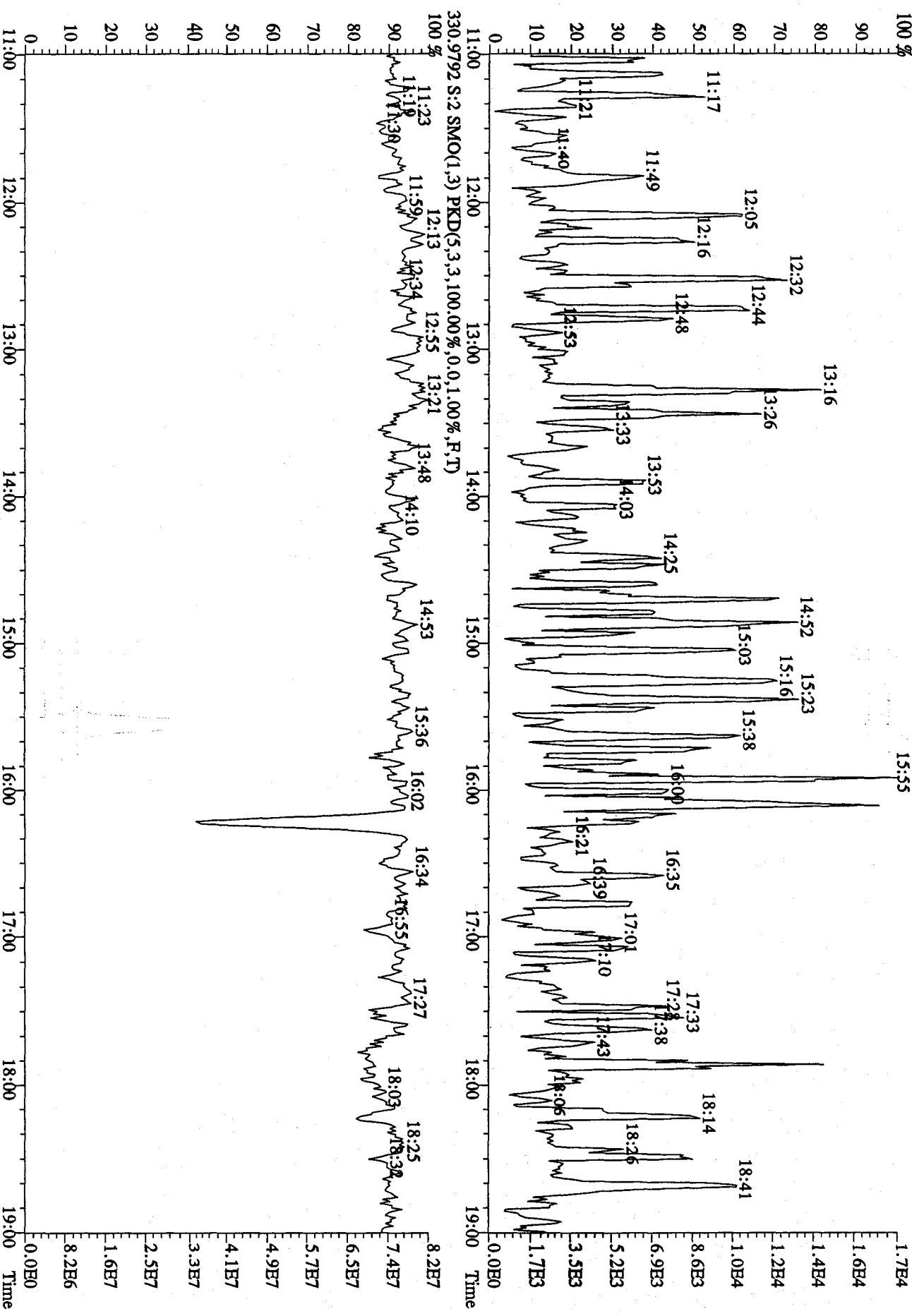
File:30DE09B5D2 #1-1242 Acq:30-DEC-2009 15:53:01 GC EI+ Voltage SIR 70SE
 Sample#2 Text:ST1230A :CS3 09DXN384 Exp:DB225
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7756,0,1.00%,F,T)
 100 % A9.48E6



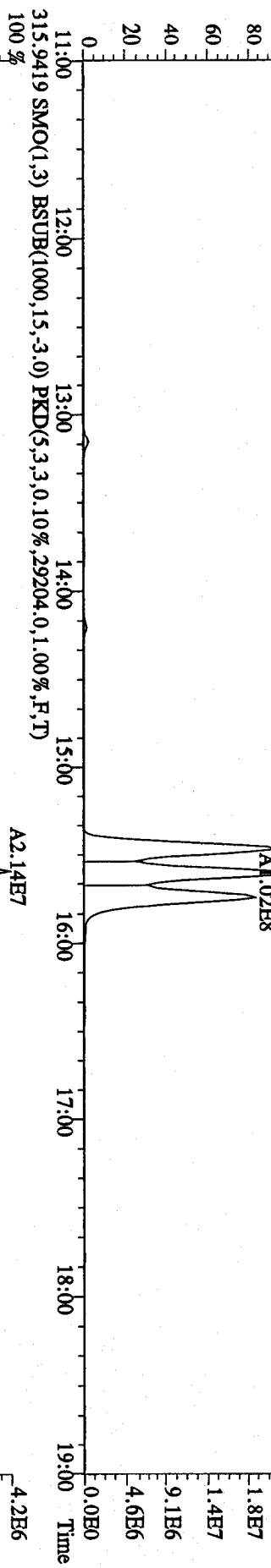
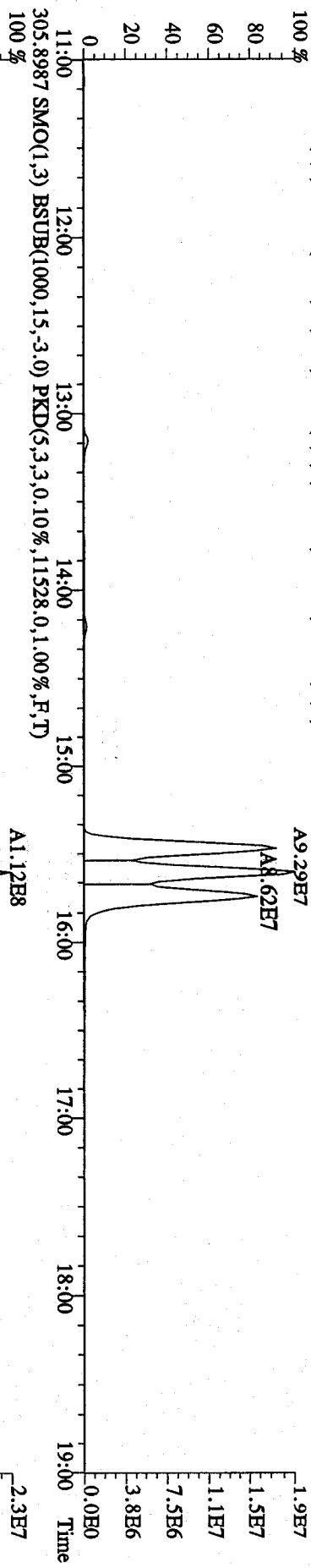
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 Sample#2 Text:ST1230A :CS3 09DXN384 Exp:DB225
 327.8840 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11936,0,1,00%,F,T)
 100% A1.83E7



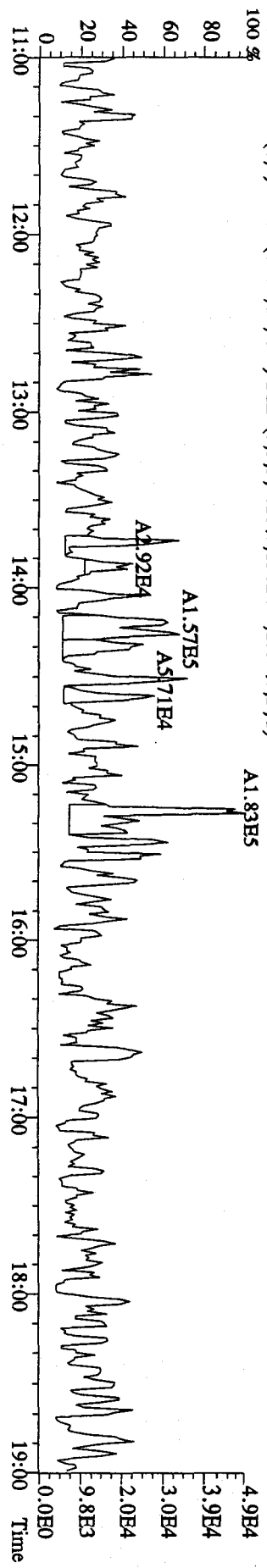
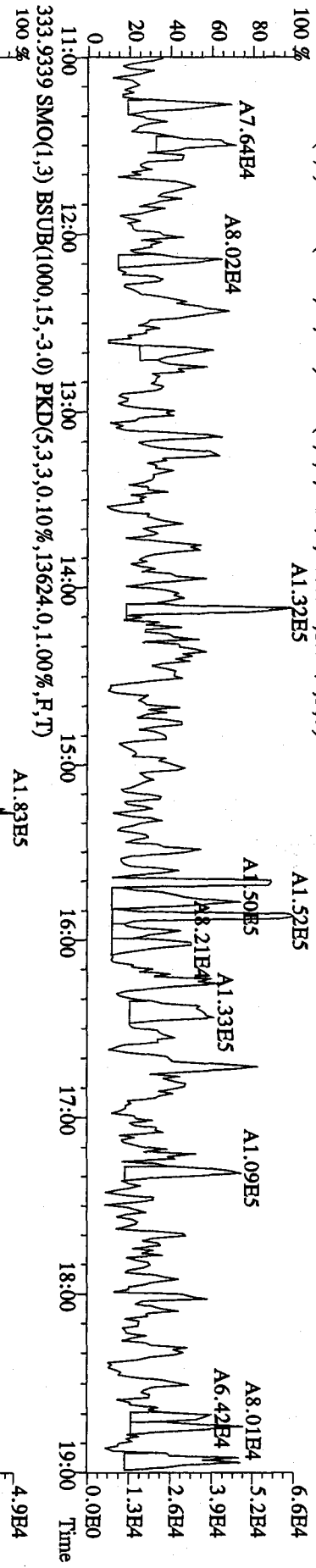
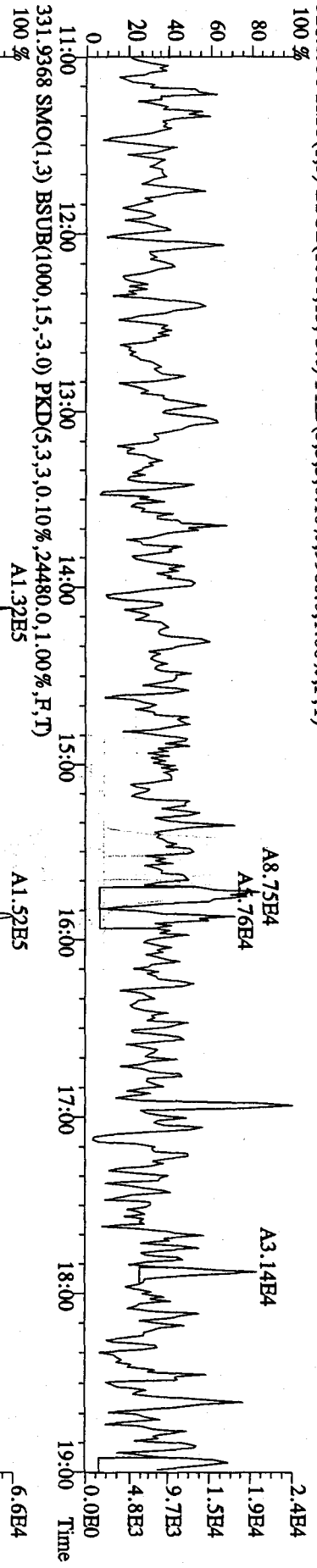
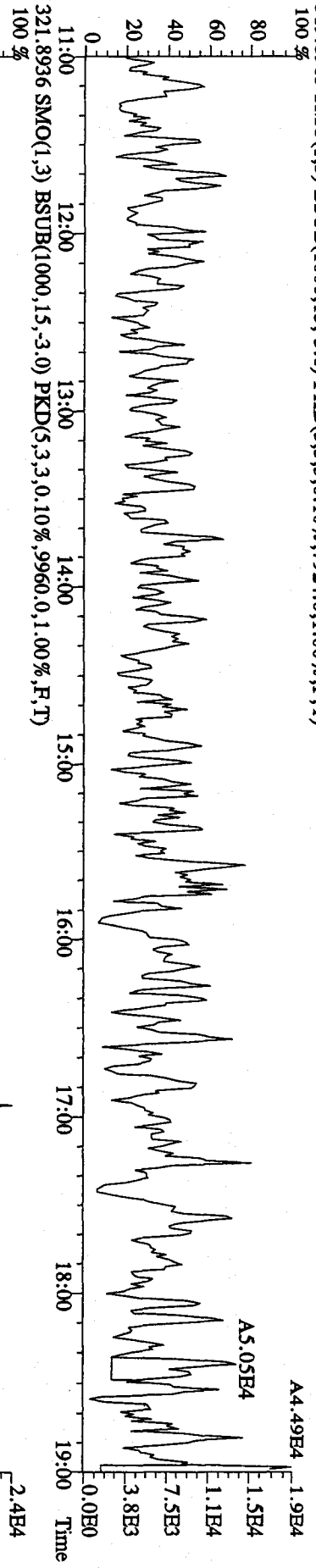
File: 30DDE09B5D2 #1-1242 Acq: 30-DEC-2009 15:53:01 GC EI+ Voltage SIR 70SE
 Sample#2 Text: ST1230A : CS3 09DXN384 Exp: DB225
 375.8364 S: 2 SMO(1.3) BSUB(1000.15-.3.0) PKD(5.3,3,100.00%,3004.0,1.00%,F,T)



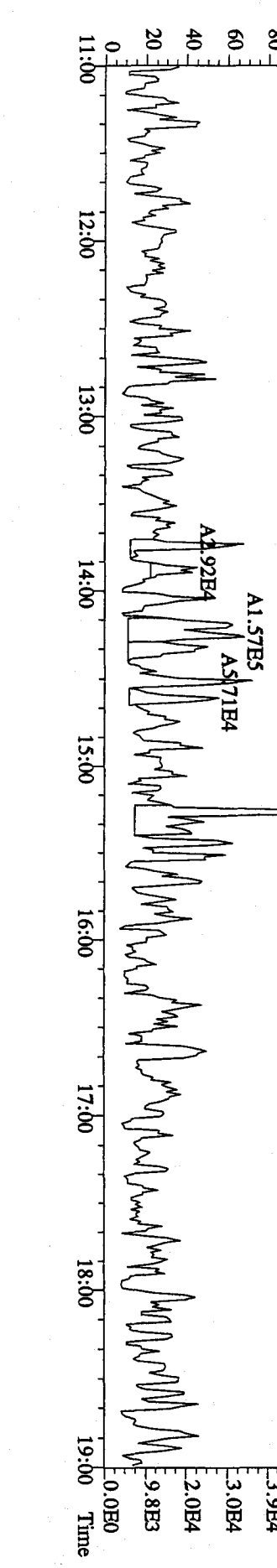
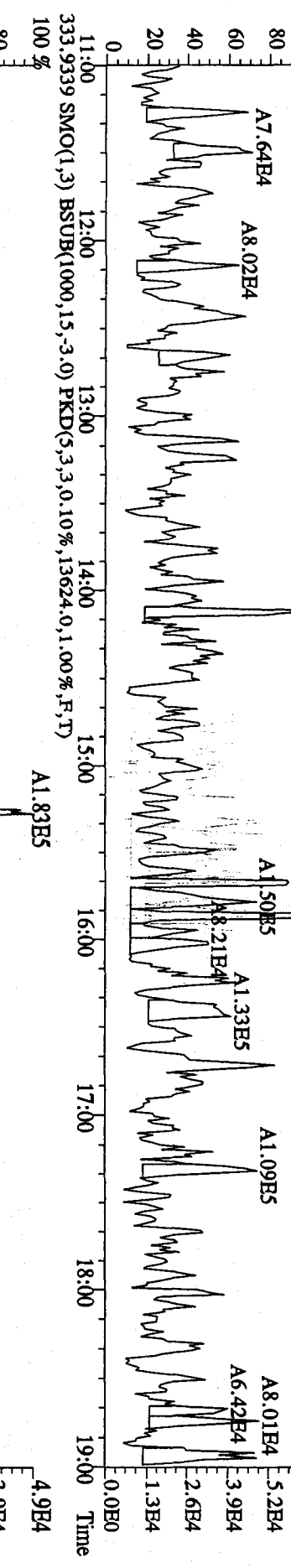
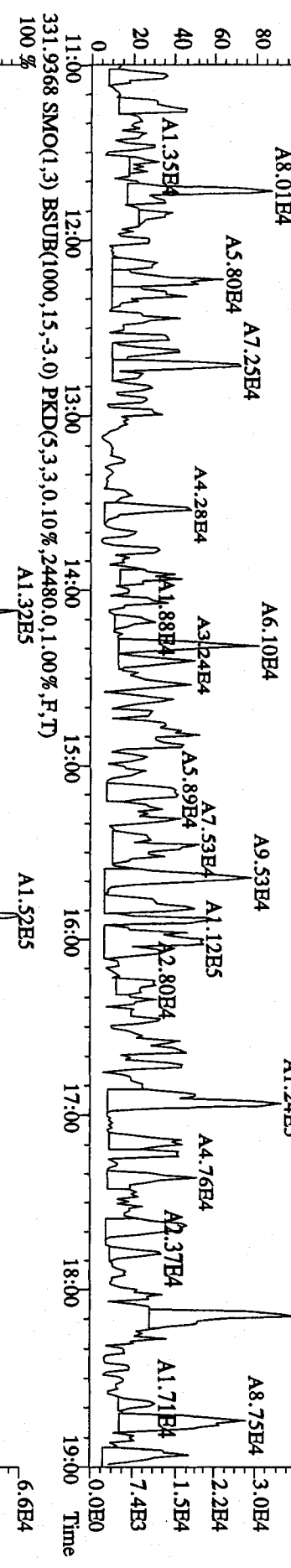
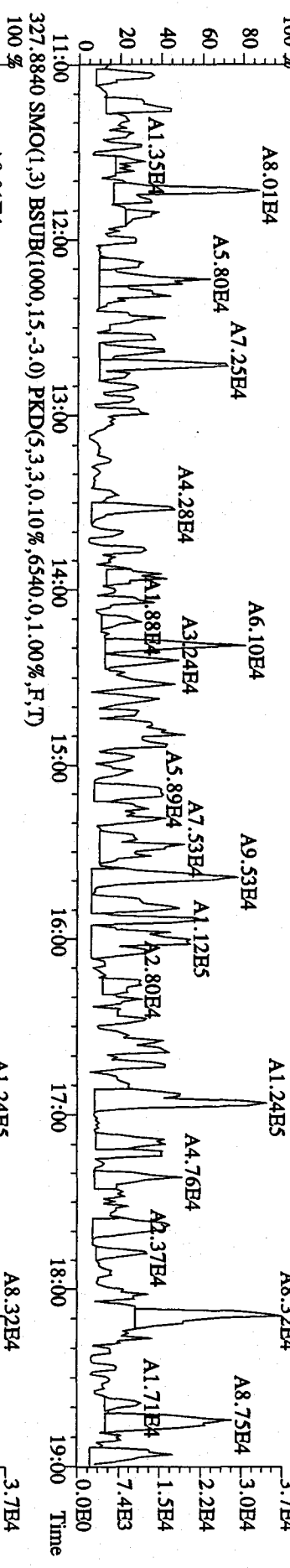
File:30DBE09B5D2 #1-1242 Acq:30-DEC-2009 15:15:55 GC HI + Voltage SIR 70SE
 Sample#1 Text:CP1230A :DB-225 CPSM 3732-01 Exp:DB225
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8656,0.1,1.00%,F,T)
 100%



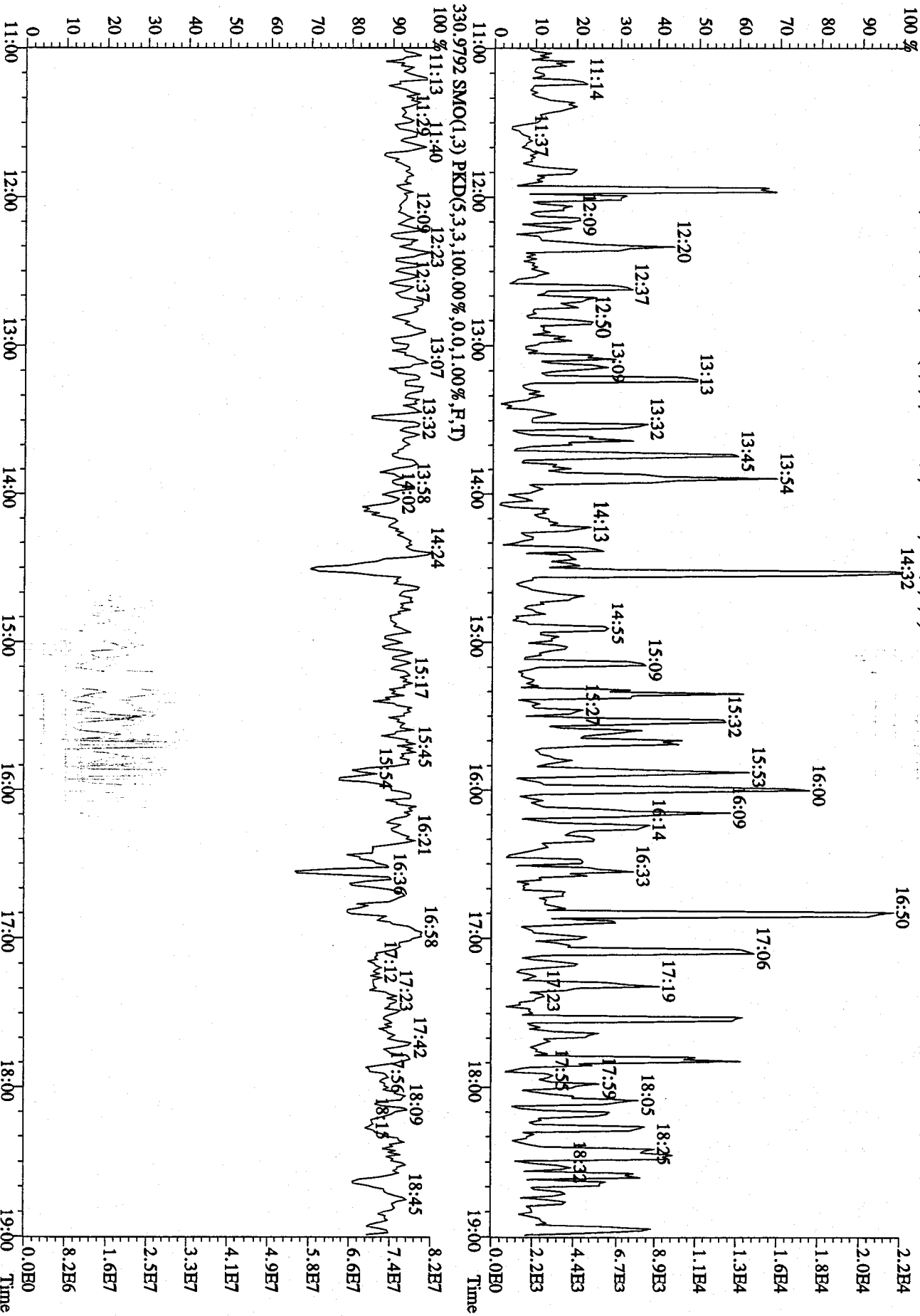
File:30DBE09B5D2 #1-1242 Acq:30-DEC-2009 15:15:55 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1230A :DB-225 CPISM 3732-01 Exp:DB225
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7924.0,1.00%,F,T)
 100 %



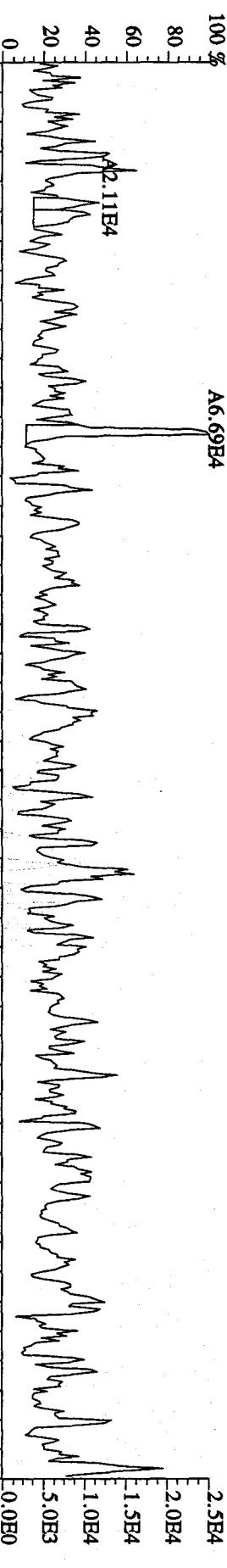
File:30DE09B5D2 #1-1242 Acq:30-DEC-2009 15:15:55 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1230A :DB-225 CPISM 3732-01 Exp:DB225
 327.8840 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6540.0,1.00%,F,T)
 100%



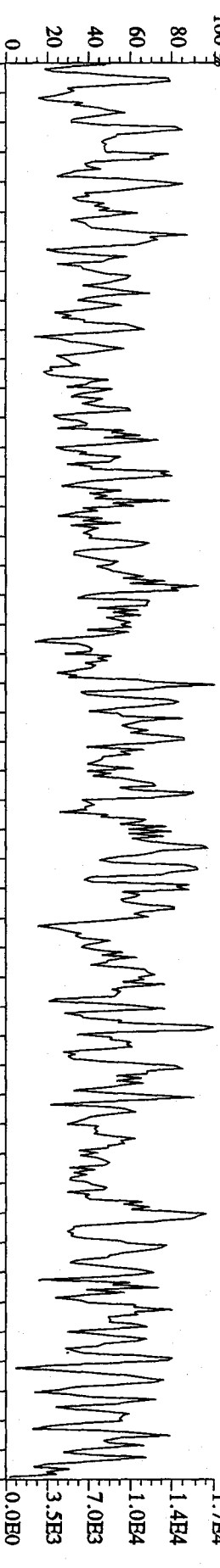
File:30DBE09B5D2 #1-1242 Acq:30-DEC-2009 15:15:55 GC EI+ Voltage SIR 70SE
 Sample#1 Text:CP1230A :DB-225 CP5M 3732-01 Exp:DB225
 375.8364 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2964,0,1.00%,F,T)
 100%



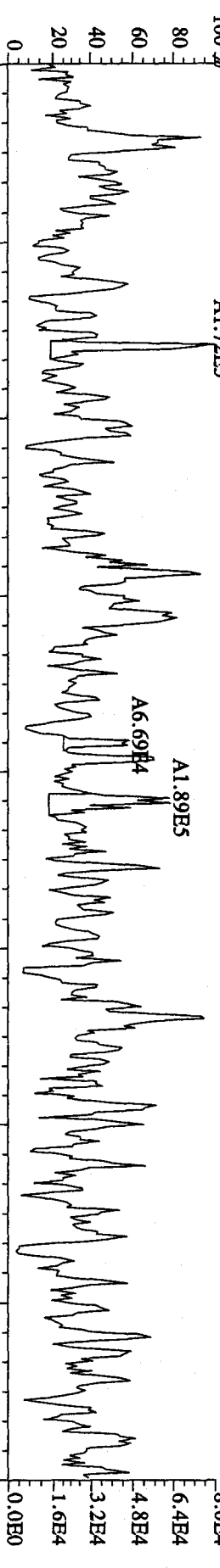
File:30DE09B5D2 #1-1242 Acq:30-DEC-2009 16:30:01 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1230A :Solvent Blank C-14 Exp:DB225
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7804,0,1.00%,F,T)
 100% A6.69E4



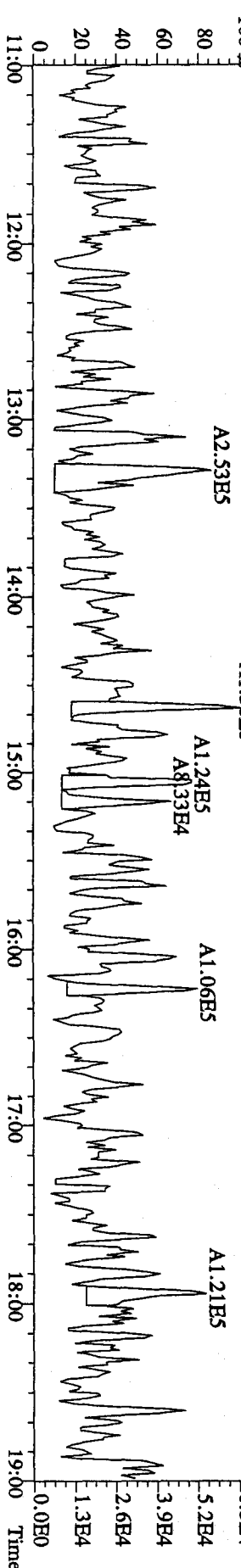
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11092,0,1.00%,F,T)
 100%



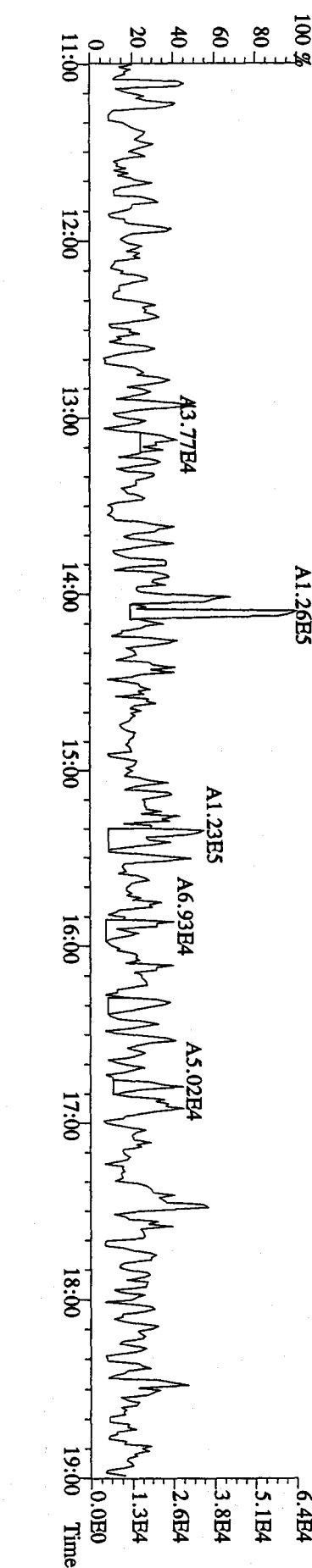
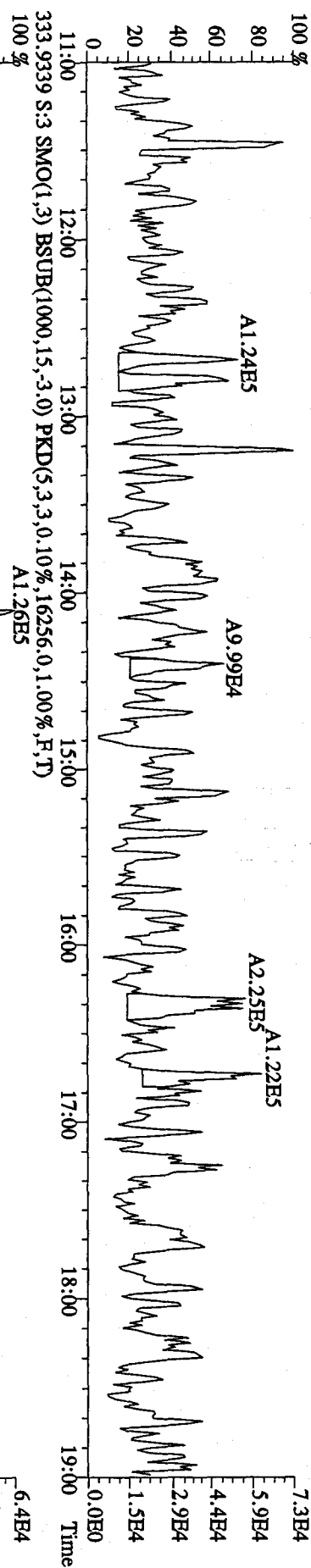
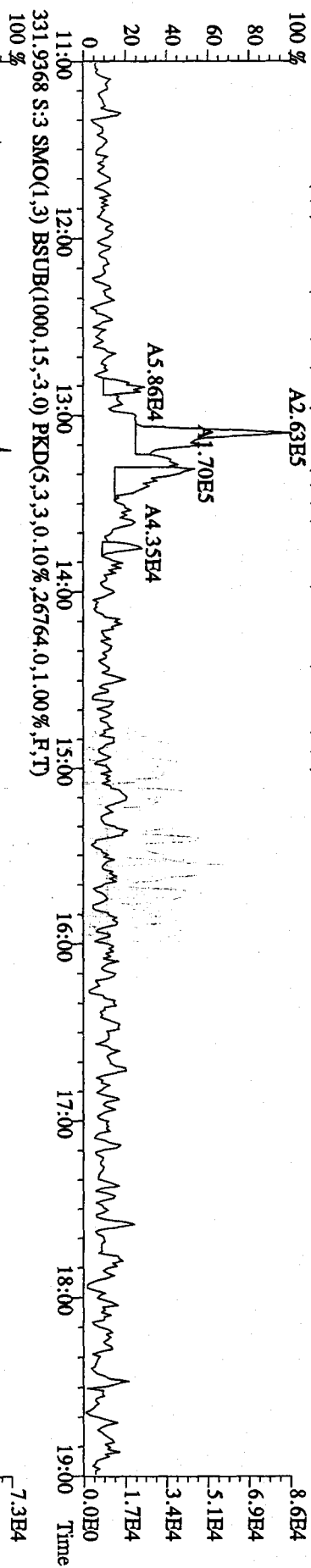
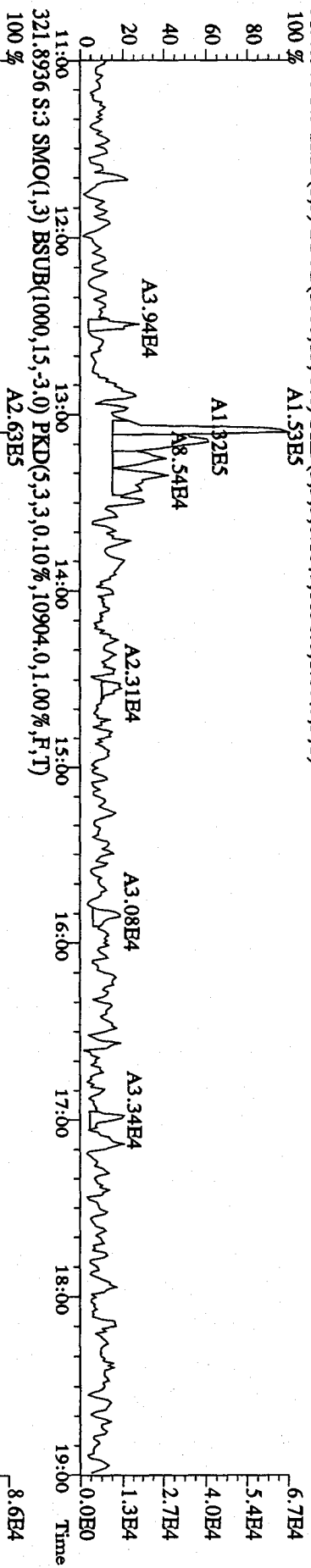
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36016,0,1.00%,F,T)
 100% A1.72E5



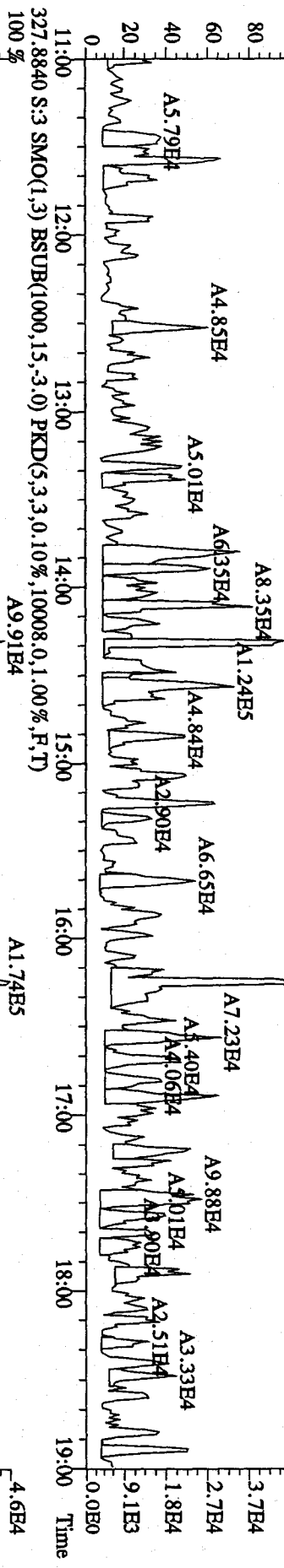
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,23744,0,1.00%,F,T)
 100% A1.38E5



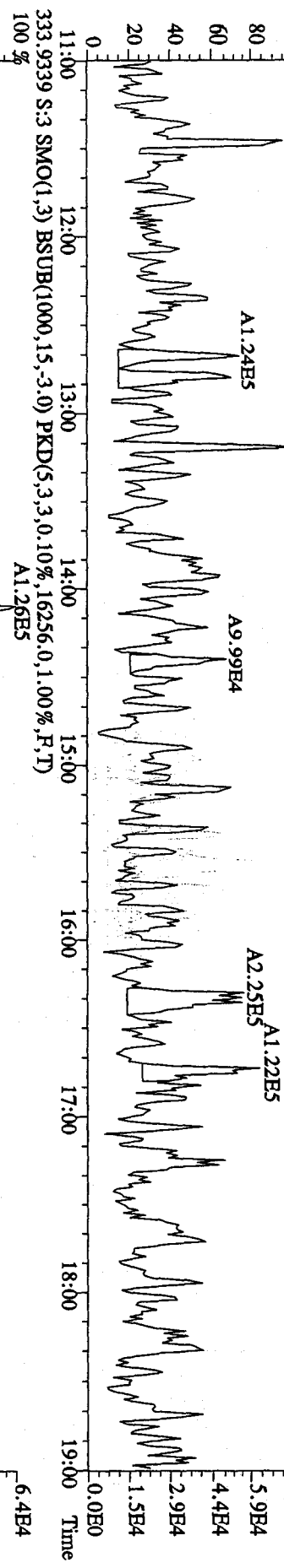
File:30DE09B5D2 #1-1242 Acq:30-DEC-2009 16:30:01 GC EI+ Voltage SIR 70SE
Sample#3 Text:SB1230A :Solvent Blank C-14 Exp:DB225
319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8036.0,1.00%,F,T)
100 % A1.53E5



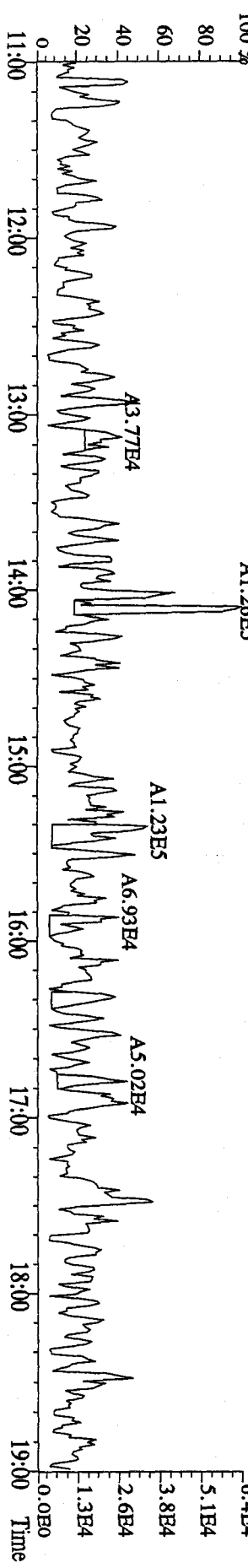
File:30DDE09B5D2 #1-1242 Acq:30-DEC-2009 16:30:01 GC EI+ Voltage SIR 70SE
 Sample#3 Text:SB1230A Solvent Blank C-14 Exp:DB225
 327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10008,0,1.00%,F,T)
 A9.91E4



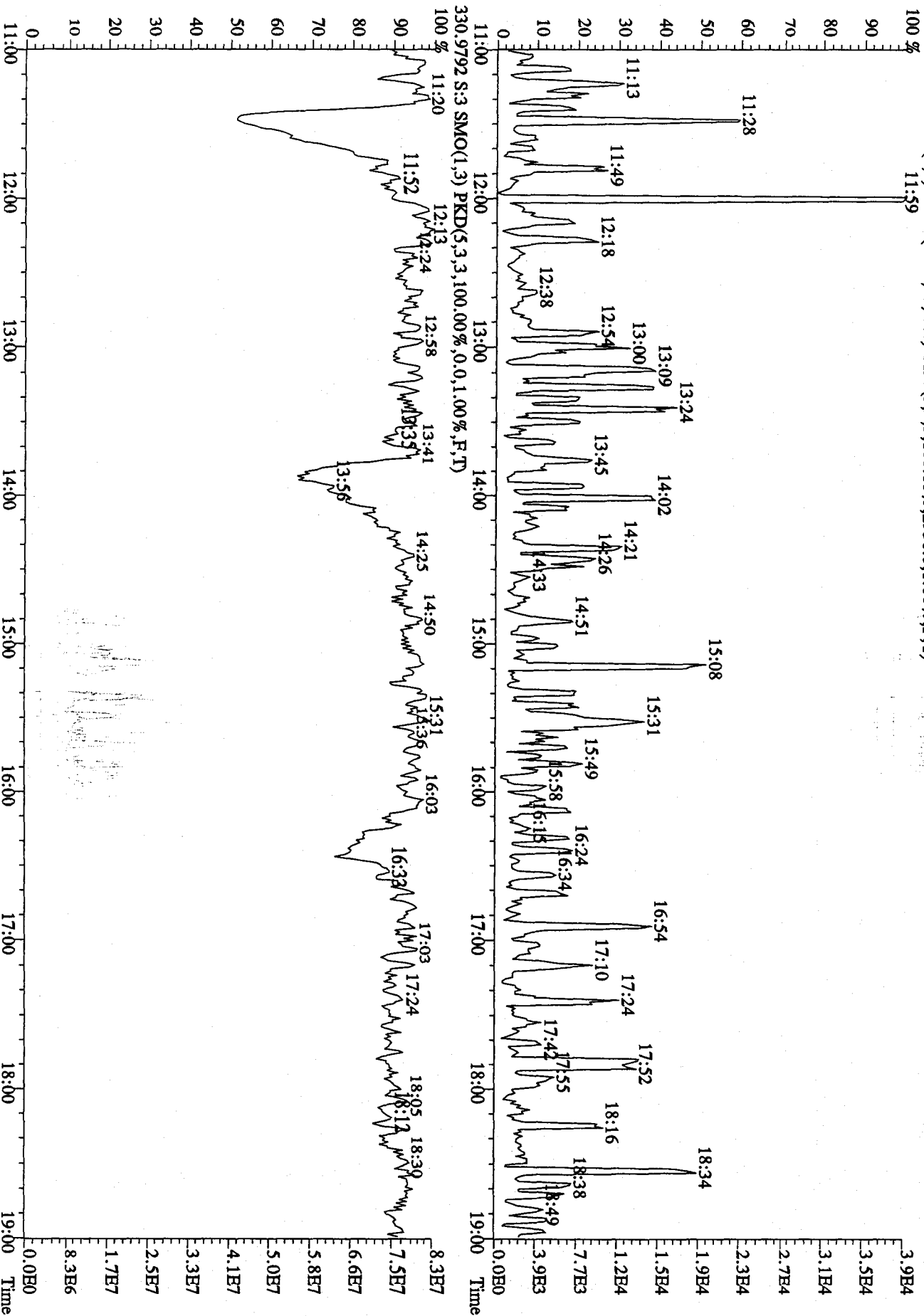
331.9368 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,26764,0,1.00%,F,T)
 A1.24E5



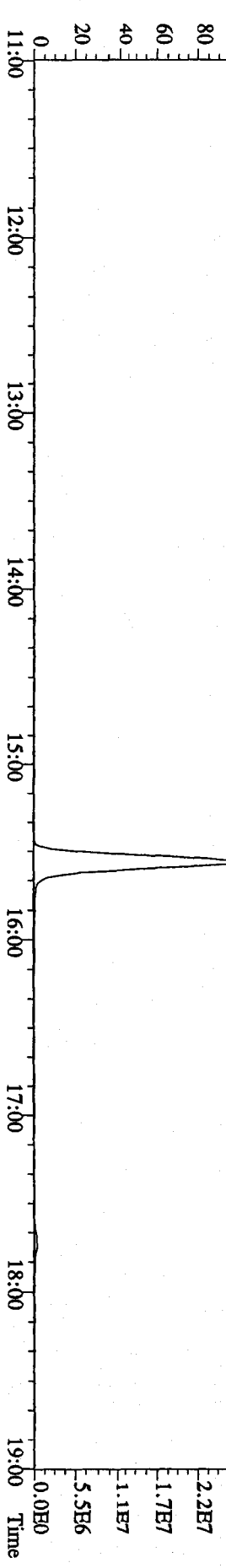
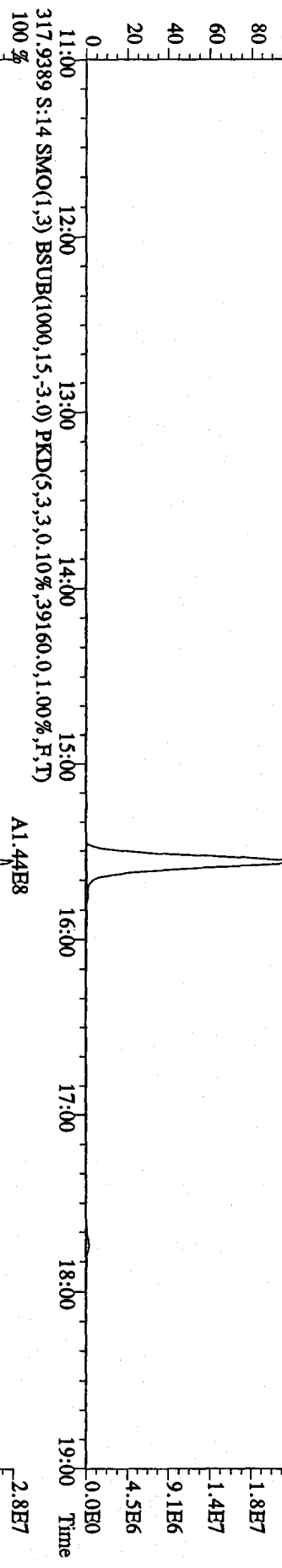
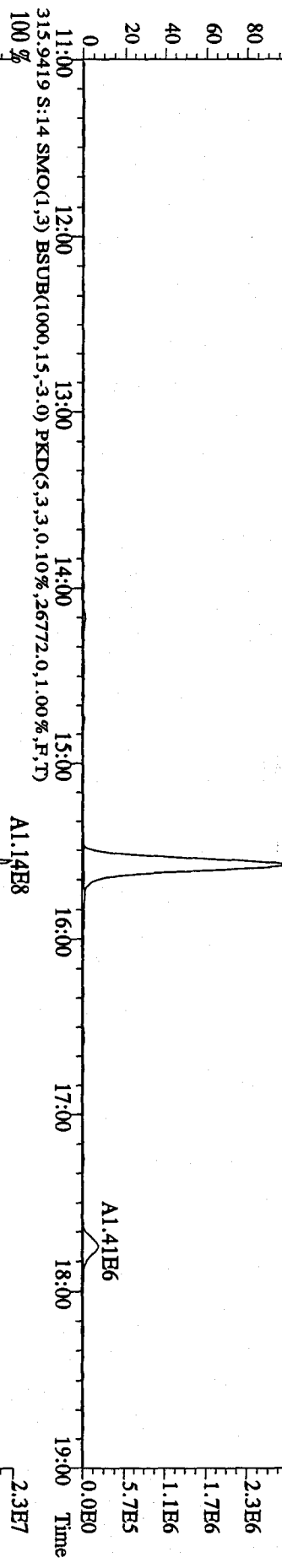
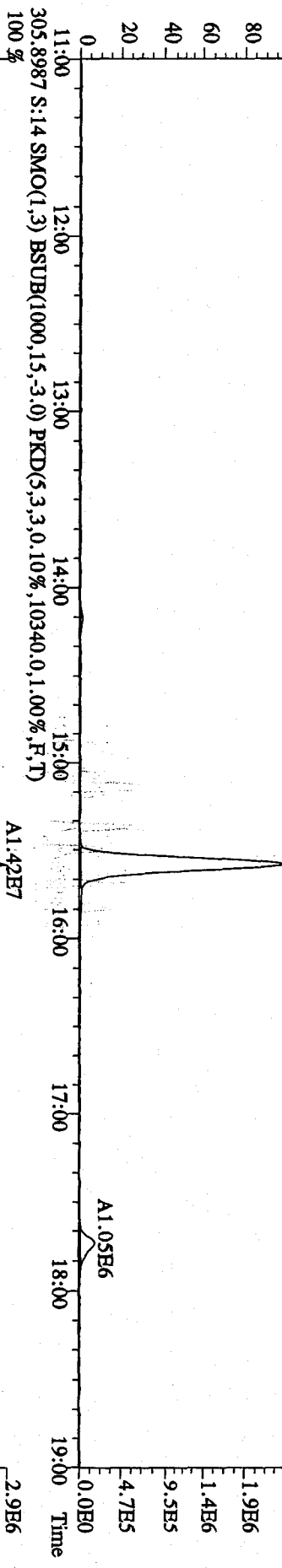
333.9339 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16256,0,1.00%,F,T)
 A1.26E5



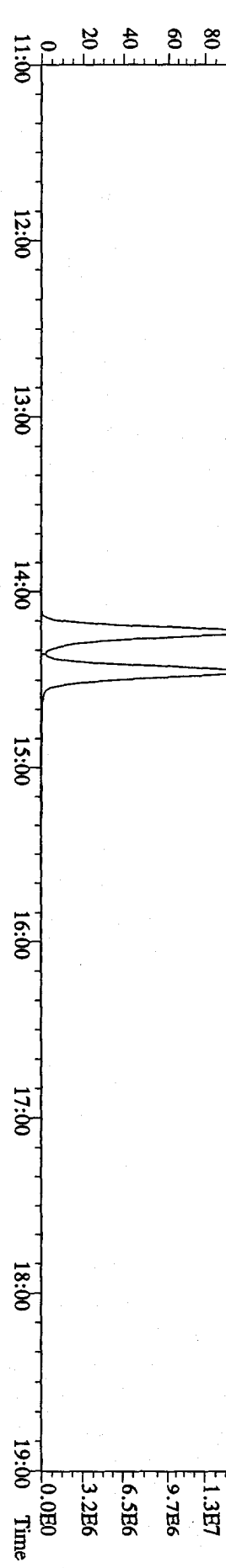
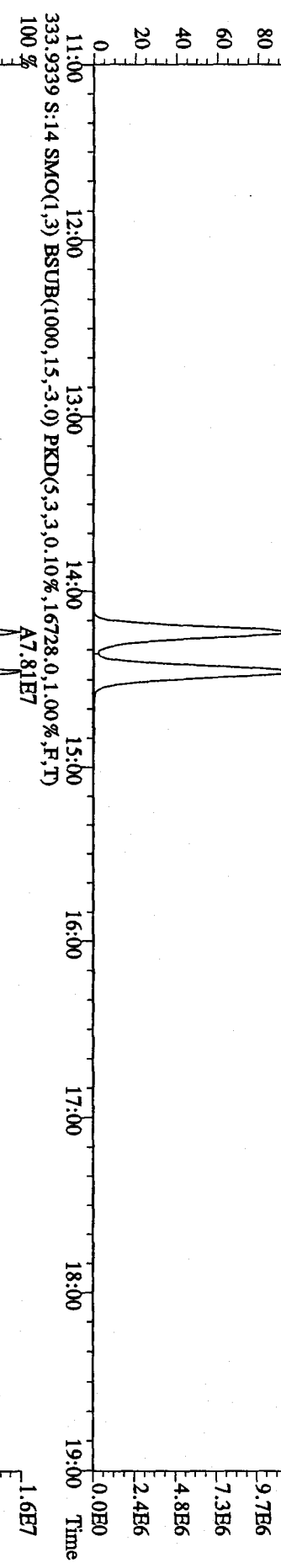
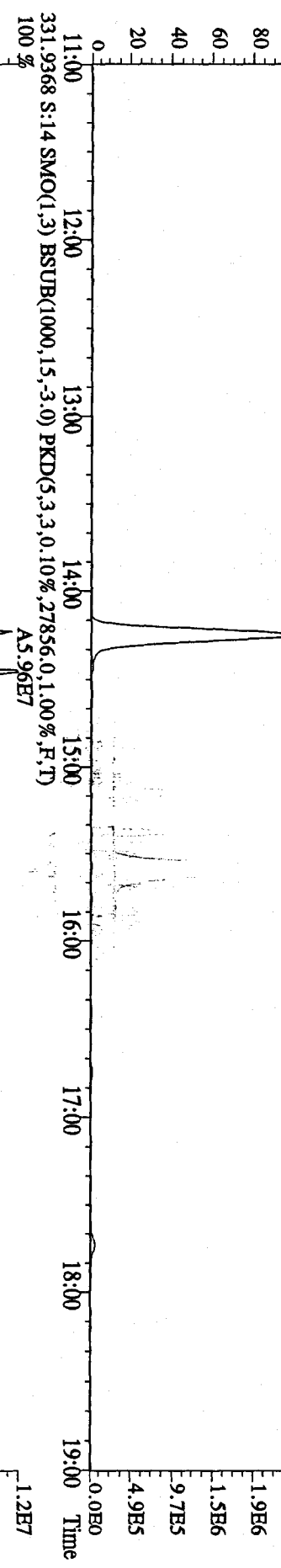
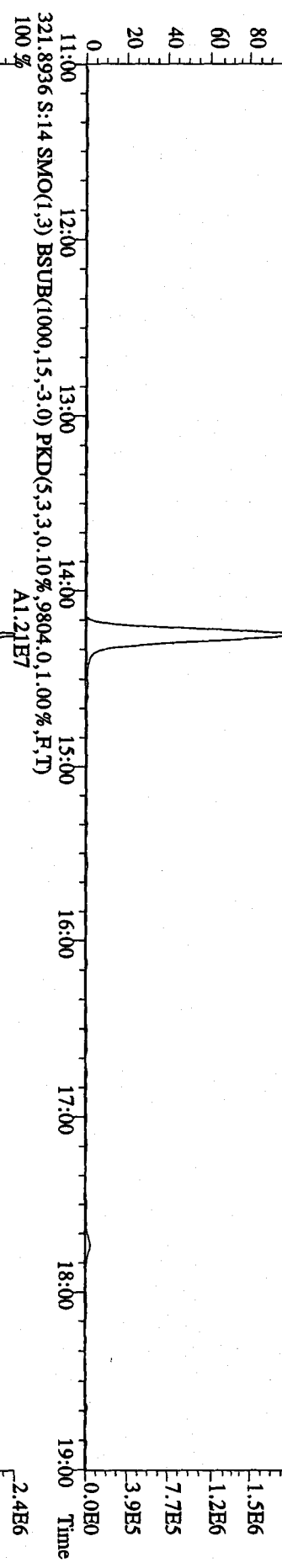
File: 30DE09B5D2 #1-1242 Acq: 30-DEC-2009 16:30:01 GC EI+ Voltage SIR 70SE
 Sample#3 Text: SB1230A : Solvent Blank C-14 Exp: DB225
 375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2936.0,1.00%,F,T)



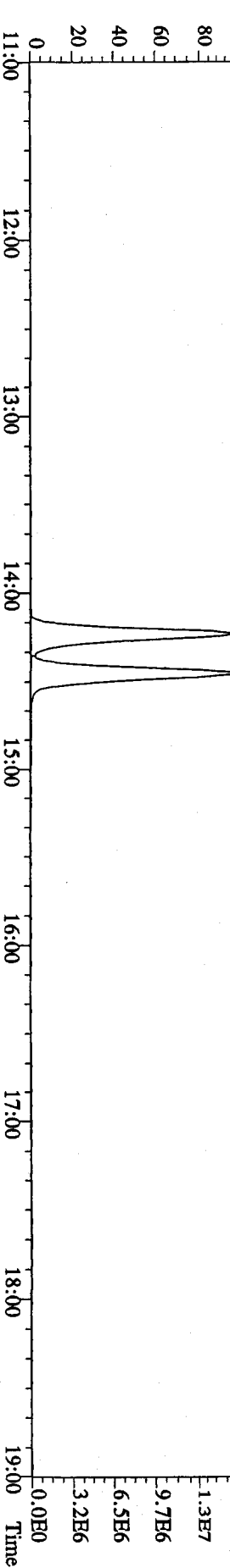
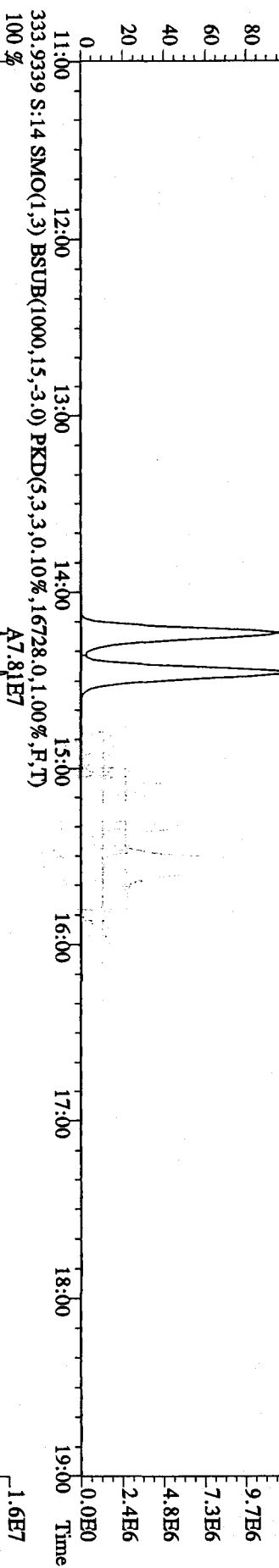
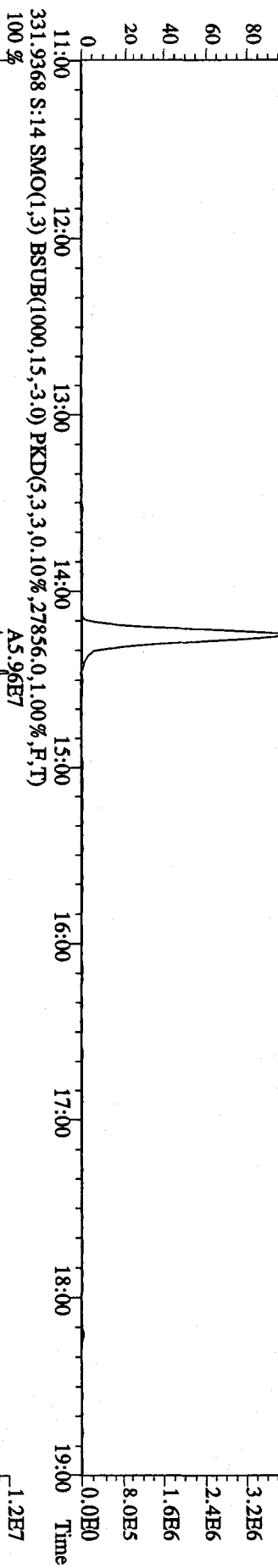
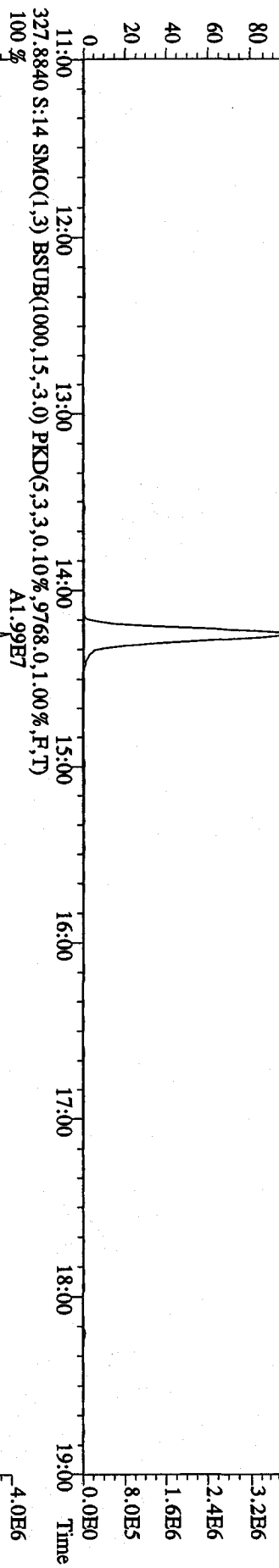
File:30DBE09B5D2 #1-1242 Acq:30-DEC-2009 23:17:43 GC EI+ Voltage SIR 70SE
 Sample#14 Text:ST1230B :CS3 09DXN384 Exp:DB225
 303.9016 S:14 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8672.0,1.00%,F,T)



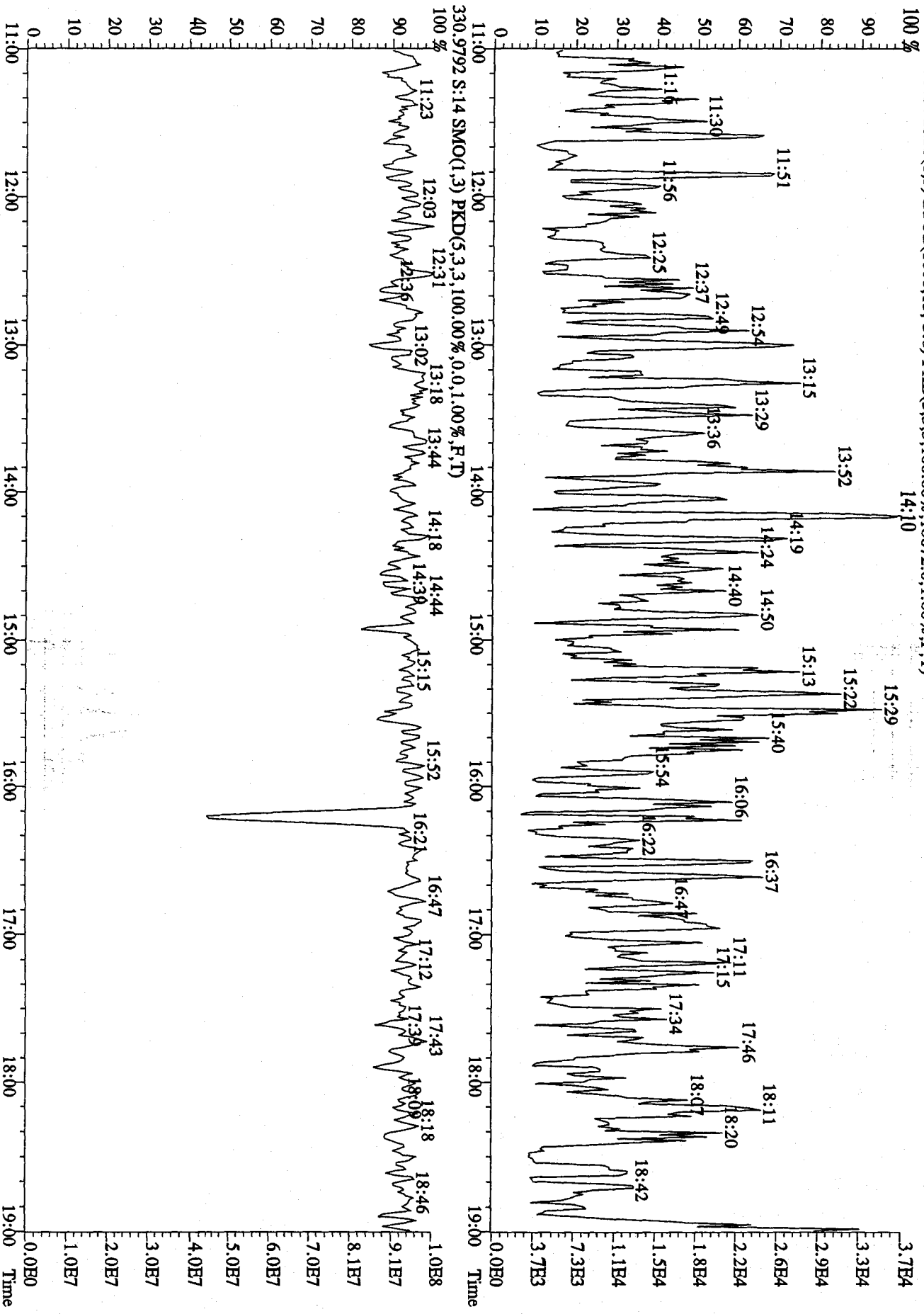
File:30DE09B5D2 #1-1242 Acq:30-DEC-2009 23:17:43 GC HI+ Voltage SIR 70SE
 Sample#14 Text:ST1230B :CS3 09DXN384 Exp:DB225
 319.8965 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8580.0,1.00%,F,T)
 100 % A9.53E6



File:30DDE09B5D2 #1-1242 Acq:30-DEC-2009 23:17:43 GC EI+ Voltage SIR 70SE
 Sample#14 Text:ST1230B :CS3 09DDXN384 Exp:DB225
 327.8840 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9768.0,1.00%,F,T) 100% A1.99E7
 100% A1.99E7



File:30DE09B5D2 #1-1242 Acq:30-DEC-2009 23:17:43 GC HI+ Voltage SIR 70SE
 Sample#14 Text:ST1230B :CS3 09DXN384 Exp:DB225
 375.8364 S:14 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,1.00%,F,T)
 10672.0,1.00%,F,T



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Initial Calibration Checklist Dioxin Methods

ICAL ID (8290, 1613, TO9, 23, 0023A, TETRA5) 121509D5

Method ID 8290, 1613B, TO9, 23, 0023A Date Scanned _____

Column ID DB5 Instrument ID 1D5

STD ID's ST1215(J, I, H, F, K) STD Solution 09DXN (226, 237, 384, 311, 412)

GC Program OCDD Multiplier Setting 270

Analyzed By M.G. Date Analyzed 12/15/09

Prepared By M.G. Date Prepared 12/16/09

Reviewed By JRB Date Reviewed 12/16/09

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?*	✓ ①	✓ ①
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:

① %RSD > 25% for 37Cl-2,3,7,8-TCDD ∴ do not use this curve for samples that require the reporting of surrogates by Method 23.

CS3 Retention Times: 13C-1,2,3,4-TCDD 16:39
13C-1,2,3,7,8,9-HxCDD 31:10

*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: 15DR091D5ICQ Analyte: 8290

Cal: 82901215091D5

ST1215J : CS1 09DXN236
ST1215F : CS4 09DXN311

ST1215I : CS2 09DXN237
ST1215K : CS5 09DXN412

ST1215H : CS3 09DXN384

15DE091D5 15DE091D5 15DE091D5 15DE091D5 15DE091D5

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

13C-2,3,7,8-TCDF	1.652	0.065	3.91 %	1.59	1.64	1.72	1.72	1.59
2,3,7,8-TCDF	1.125	0.124	11.0 %	0.98	1.06	1.20	1.24	1.21
Total TCDF	1.125	0.124	11.0 %	0.98	1.00	1.20	1.24	1.21

13C-2,3,7,8-TCDD	0.944	0.035	3.72 %	0.89	0.96	0.97	0.98	0.92
2,3,7,8-TCDD	1.185	0.109	9.18 %	1.07	1.08	1.20	1.29	1.29
Total TCDD	1.185	0.109	9.18 %	1.07	1.08	1.20	1.29	1.29

37Cl-2,3,7,8-TCDD	2.774	0.760	27.4 %	2.08	2.28	2.52	3.00	3.98
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13C-1,2,3,7,8-PeCDF	1.186	0.039	3.32 %	1.16	1.17	1.23	1.23	1.15
1,2,3,7,8-PeCDF	1.332	0.138	10.3 %	1.13	1.24	1.44	1.44	1.41
2,3,4,7,8-PeCDF	1.266	0.137	10.8 %	1.07	1.19	1.40	1.36	1.31
Total F2 PeCDF	1.299	0.137	10.5 %	1.10	1.22	1.42	1.40	1.36
Total F1 PeCDF	1.299	0.137	10.5 %	1.10	1.22	1.42	1.40	1.36

13C-1,2,3,7,8-PeCDD	0.635	0.039	6.14 %	0.62	0.61	0.67	0.68	0.59
1,2,3,7,8-PeCDD	1.257	0.139	11.0 %	1.08	1.13	1.33	1.36	1.38
Total PeCDD	1.257	0.139	11.0 %	1.08	1.13	1.33	1.36	1.38

13C-1,2,3,7,8-HxCDD	-	-	- %	-	-	-	-	-
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13C-1,2,3,4,7,8-HxCDF	1.271	0.023	1.80 %	1.30	1.25	1.25	1.29	1.27
1,2,3,4,7,8-HxCDF	1.282	0.161	12.6 %	1.05	1.18	1.36	1.43	1.40
1,2,3,6,7,8-HxCDF	1.386	0.181	13.1 %	1.11	1.30	1.45	1.55	1.52
2,3,4,6,7,8-HxCDF	1.303	0.165	12.7 %	1.06	1.20	1.41	1.42	1.42
1,2,3,7,8,9-HxCDF	1.159	0.156	13.5 %	0.93	1.07	1.26	1.31	1.22
Total HxCDF	1.282	0.165	12.9 %	1.04	1.19	1.37	1.43	1.39

13C-1,2,3,6,7,8-HxCDD	0.722	0.016	2.17 %	0.70	0.73	0.72	0.73	0.73
1,2,3,4,7,8-HxCDD	1.263	0.170	13.4 %	1.07	1.09	1.33	1.42	1.40

1,2,3,6,7,8-HxCDD	1.391	0.165	11.9 %	1.20	1.22	1.49	1.51	1.54
1,2,3,7,8,9-HxCDD	1.467	0.160	10.9 %	1.27	1.33	1.56	1.63	1.55
Total HxCDD	1.374	0.164	11.9 %	1.18	1.21	1.46	1.52	1.50
1,2,3,4,6,7,8-HpCDF	1.050	0.033	3.13 %	1.06	1.07	1.07	1.07	0.99
1,2,3,4,6,7,8-HpCDF	1.549	0.179	11.6 %	1.27	1.46	1.68	1.66	1.66
1,2,3,4,7,8,9-HpCDF	1.307	0.148	11.3 %	1.09	1.22	1.38	1.46	1.38
Total HpCDF	1.428	0.162	11.4 %	1.18	1.34	1.53	1.56	1.52
1,2,3,4,6,7,8-HpCDD	0.758	0.035	4.66 %	0.79	0.80	0.73	0.76	0.71
1,2,3,4,6,7,8-HpCDD	1.277	0.148	11.6 %	1.10	1.13	1.36	1.40	1.39
Total HpCDD	1.277	0.148	11.6 %	1.10	1.13	1.36	1.40	1.39
1,2,3,6,7,8-HxCDD	0.716	0.055	7.68 %	0.76	0.75	0.70	0.75	0.63
1,2,3,7,8,9-HxCDD	1.578	0.226	14.3 %	1.25	1.44	1.68	1.74	1.78
Total HxCDD	1.126	0.127	11.3 %	0.95	1.03	1.20	1.21	1.23

Run #1 Filename 15DE091D5 S: 12 I: 1
 Acquired: 15-DEC-09 18:09:25 Processed: 15-DEC-09 21:01:32
 Run: 15DE091D5IC Analyte: 8290 Cal: 82901215091D5

Comments:

Sample text: ST1215J :CS1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	296534000	0.84 y	16:38	-	100.00	n
13C-2,3,7,8-TCDF	470888000	0.81 y	16:11	1.59	100.00	n
2,3,7,8-TCDF	2312541	0.74 y	16:12	0.98	0.50	n
Total TCDF	-	- n	-	0.98	0.50	n
13C-2,3,7,8-TCDD	264639000	0.83 y	16:50	0.89	100.00	n
2,3,7,8-TCDD	1412117	0.76 y	16:51	1.07	0.50	n
Total TCDD	-	- n	-	1.07	0.50	n
37Cl-2,3,7,8-TCDD	3081040	1.00 y	16:51	2.08	0.50	n
13C-1,2,3,7,8-PeCDF	343026000	1.63 y	20:45	1.16	100.00	n
1,2,3,7,8-PeCDF	9715820	1.50 y	20:46	1.13	2.50	n
2,3,4,7,8-PeCDF	9155970	1.60 y	21:59	1.07	2.50	n
Total F2 PeCDF	-	- n	-	1.10	5.00	n
Total F1 PeCDF	-	- n	-	1.10	5.00	n
13C-1,2,3,7,8-PeCDD	183758800	1.65 y	22:36	0.62	100.00	n
1,2,3,7,8-PeCDD	4983240	1.70 y	22:38	1.08	2.50	n
Total PeCDD	-	- n	-	1.08	2.50	n
13C-1,2,3,7,8,9-HxCDD	207928000	1.27 y	31:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	269347300	0.54 y	28:23	1.30	100.00	n
1,2,3,4,7,8-HxCDF	7074840	1.35 y	28:25	1.05	2.50	n
1,2,3,6,7,8-HxCDF	7474140	1.19 y	28:44	1.11	2.50	n
2,3,4,6,7,8-HxCDF	7154530	1.26 y	30:16	1.06	2.50	n
1,2,3,7,8,9-HxCDF	6271170	1.33 y	31:27	0.93	2.50	n
Total HxCDF	-	- n	-	1.04	10.00	n
13C-1,2,3,6,7,8-HxCDD	144722100	1.29 y	30:41	0.70	100.00	n
1,2,3,4,7,8-HxCDD	3865340	1.24 y	30:33	1.07	2.50	n
1,2,3,6,7,8-HxCDD	4334320	1.31 y	30:42	1.20	2.50	n
1,2,3,7,8,9-HxCDD	4586830	1.29 y	31:12	1.27	2.50	n
Total HxCDD	-	- n	-	1.18	7.50	n
13C-1,2,3,4,6,7,8-HpCDF	219851700	0.45 y	33:17	1.06	100.00	n
1,2,3,4,6,7,8-HpCDF	6989120	1.07 y	33:18	1.27	2.50	n
1,2,3,4,7,8,9-HpCDF	6010300	1.02 y	34:30	1.09	2.50	n
Total HpCDF	-	- n	-	1.18	5.00	n
13C-1,2,3,4,6,7,8-HpCDD	163274200	1.05 y	34:11	0.79	100.00	n
1,2,3,4,6,7,8-HpCDD	4488270	1.17 y	34:12	1.10	2.50	n
Total HpCDD	-	- n	-	1.10	2.50	n
13C-OCDD	313979000	0.92 y	36:46	0.76	200.00	n
OCDF	9818850	0.90 y	36:52	1.25	5.00	n

OCDD 7468890 0.89 y 36:47 0.95 5.00 n

Run #2 Filename 15DE091D5 S: 11 I: 1
 Acquired: 15-DEC-09 17:27:35 Processed: 15-DEC-09 21:01:32
 Run: 15DE091D5IC Analyte: 8290 Cal: 82901215091D5

Comments:

Sample text: ST1215I :CS2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	292528000	0.83 y	16:38	-	100.00	n
13C-2,3,7,8-TCDF	481023000	0.80 y	16:12	1.64	100.00	n
2,3,7,8-TCDF	9613100	0.79 y	16:13	1.00	2.00	n
Total TCDF	-	- n	-	1.00	2.00	n
13C-2,3,7,8-TCDD	281531000	0.81 y	16:50	0.96	100.00	n
2,3,7,8-TCDD	6075060	0.74 y	16:51	1.08	2.00	n
Total TCDD	-	- n	-	1.08	2.00	n
37Cl-2,3,7,8-TCDD	13345600	1.00 y	16:51	2.28	2.00	n
13C-1,2,3,7,8-PeCDF	341601000	1.67 y	20:46	1.17	100.00	n
1,2,3,7,8-PeCDF	42479400	1.65 y	20:48	1.24	10.00	n
2,3,4,7,8-PeCDF	40595000	1.61 y	21:59	1.19	10.00	n
Total F2 PeCDF	-	- n	-	1.22	20.00	n
Total F1 PeCDF	-	- n	-	1.22	20.00	n
13C-1,2,3,7,8-PeCDD	179350900	1.64 y	22:37	0.61	100.00	n
1,2,3,7,8-PeCDD	20249870	1.68 y	22:38	1.13	10.00	n
Total PeCDD	-	- n	-	1.13	10.00	n
13C-1,2,3,7,8,9-HxCDD	207799200	1.28 y	31:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	259777700	0.54 y	28:24	1.25	100.00	n
1,2,3,4,7,8-HxCDF	30618800	1.27 y	28:25	1.18	10.00	n
1,2,3,6,7,8-HxCDF	33860700	1.26 y	28:43	1.30	10.00	n
2,3,4,6,7,8-HxCDF	31088400	1.27 y	30:15	1.20	10.00	n
1,2,3,7,8,9-HxCDF	27767200	1.26 y	31:27	1.07	10.00	n
Total HxCDF	-	- n	-	1.19	40.00	n
13C-1,2,3,6,7,8-HxCDD	150835100	1.31 y	30:41	0.73	100.00	n
1,2,3,4,7,8-HxCDD	16499520	1.36 y	30:33	1.09	10.00	n
1,2,3,6,7,8-HxCDD	18469280	1.24 y	30:43	1.22	10.00	n
1,2,3,7,8,9-HxCDD	20003410	1.34 y	31:11	1.33	10.00	n
Total HxCDD	-	- n	-	1.21	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	221443000	0.43 y	33:18	1.07	100.00	n
1,2,3,4,6,7,8-HpCDF	32400400	1.08 y	33:18	1.46	10.00	n
1,2,3,4,7,8,9-HpCDF	27008200	1.07 y	34:30	1.22	10.00	n
Total HpCDF	-	- n	-	1.34	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	165510600	1.06 y	34:10	0.80	100.00	n
1,2,3,4,6,7,8-HpCDD	18751840	1.06 y	34:11	1.13	10.00	n
Total HpCDD	-	- n	-	1.13	10.00	n
13C-OCDD	310394000	0.92 y	36:46	0.75	200.00	n
OCDF	44599800	0.92 y	36:52	1.44	20.00	n
OCDD	31962700	0.89 y	36:47	1.03	20.00	n

Run #3 Filename 15DE091D5 S: 10 I: 1
 Acquired: 15-DEC-09 16:45:45 Processed: 15-DEC-09 21:01:33
 Run: 15DE091D5IC Analyte: 8290 Cal: 82901215091D5

Comments:

Sample text: ST1215H :CS3 09DXN384

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	282997000	0.80 y	16:39	-	100.00	n
13C-2,3,7,8-TCDF	485925000	0.80 y	16:11	1.72	100.00	n
2,3,7,8-TCDF	58173600	0.79 y	16:12	1.20	10.00	n
Total TCDF	-	- n	-	1.20	10.00	n
13C-2,3,7,8-TCDD	273429000	0.82 y	16:50	0.97	100.00	n
2,3,7,8-TCDD	32819100	0.81 y	16:51	1.20	10.00	n
Total TCDD	-	- n	-	1.20	10.00	n
37Cl-2,3,7,8-TCDD	71444200	1.00 y	16:51	2.52	10.00	n
13C-1,2,3,7,8-PeCDF	348088000	1.61 y	20:46	1.23	100.00	n
1,2,3,7,8-PeCDF	250716300	1.62 y	20:47	1.44	50.00	n
2,3,4,7,8-PeCDF	243195000	1.58 y	21:59	1.40	50.00	n
Total F2 PeCDF	-	- n	-	1.42	100.00	n
Total F1 PeCDF	-	- n	-	1.42	100.00	n
13C-1,2,3,7,8-PeCDD	190798000	1.61 y	22:36	0.67	100.00	n
1,2,3,7,8-PeCDD	127243300	1.64 y	22:38	1.33	50.00	n
Total PeCDD	-	- n	-	1.33	50.00	n
13C-1,2,3,7,8,9-HxCDD	226312800	1.29 y	31:10	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	282199300	0.54 y	28:23	1.25	100.00	n
1,2,3,4,7,8-HxCDF	191624200	1.27 y	28:25	1.36	50.00	n
1,2,3,6,7,8-HxCDF	205060600	1.27 y	28:44	1.45	50.00	n
2,3,4,6,7,8-HxCDF	199315100	1.24 y	30:15	1.41	50.00	n
1,2,3,7,8,9-HxCDF	178429100	1.26 y	31:26	1.26	50.00	n
Total HxCDF	-	- n	-	1.37	200.00	n
13C-1,2,3,6,7,8-HxCDD	163311700	1.25 y	30:42	0.72	100.00	n
1,2,3,4,7,8-HxCDD	108420300	1.35 y	30:33	1.33	50.00	n
1,2,3,6,7,8-HxCDD	121450000	1.24 y	30:43	1.49	50.00	n
1,2,3,7,8,9-HxCDD	127698700	1.24 y	31:12	1.56	50.00	n
Total HxCDD	-	- n	-	1.46	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	241297300	0.43 y	33:17	1.07	100.00	n
1,2,3,4,6,7,8-HpCDF	203088800	1.05 y	33:18	1.68	50.00	n
1,2,3,4,7,8,9-HpCDF	166060600	1.06 y	34:30	1.38	50.00	n
Total HpCDF	-	- n	-	1.53	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	166014500	1.09 y	34:10	0.73	100.00	n
1,2,3,4,6,7,8-HpCDD	113093500	1.09 y	34:11	1.36	50.00	n
Total HpCDD	-	- n	-	1.36	50.00	n
13C-OCDD	315987000	0.91 y	36:47	0.70	200.00	n
OCDF	265845000	0.91 y	36:52	1.68	100.00	n
OCDD	189698000	0.90 y	36:47	1.20	100.00	n

Run #4 Filename 15DE091D5 S: 8 I: 1
 Acquired: 15-DEC-09 15:22:04 Processed: 15-DEC-09 21:01:34
 Run: 15DE091D5IC₇ Analyte: 8290 Cal: 82901215091D5
 Comments: 270V

Sample text: ST1215F :CS4 09DXN311

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	293563000	0.83 y	16:38	-	100.00	n
13C-2,3,7,8-TCDF	504639000	0.80 y	16:11	1.72	100.00	n
2,3,7,8-TCDF	250202000	0.79 y	16:12	1.24	40.00	n
Total TCDF	-	- n	-	1.24	40.00	n
13C-2,3,7,8-TCDD	286316000	0.82 y	16:49	0.98	100.00	n
2,3,7,8-TCDD	147326400	0.79 y	16:51	1.29	40.00	n
Total TCDD	-	- n	-	1.29	40.00	n
37Cl-2,3,7,8-TCDD	352624000	1.00 y	16:50	3.00	40.00	n
13C-1,2,3,7,8-PeCDF	360503000	1.63 y	20:46	1.23	100.00	n
1,2,3,7,8-PeCDF	1036058000	1.56 y	20:47	1.44	200.00	n
2,3,4,7,8-PeCDF	984065000	1.56 y	21:59	1.36	200.00	n
Total F2 PeCDF	-	- n	-	1.40	400.00	n
Total F1 PeCDF	-	- n	-	1.40	400.00	n
13C-1,2,3,7,8-PeCDD	198680100	1.63 y	22:37	0.68	100.00	n
1,2,3,7,8-PeCDD	539503000	1.60 y	22:38	1.36	200.00	n
Total PeCDD	-	- n	-	1.36	200.00	n
13C-1,2,3,7,8,9-HxCDD	213397900	1.28 y	31:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	275975000	0.54 y	28:24	1.29	100.00	n
1,2,3,4,7,8-HxCDF	787349000	1.25 y	28:25	1.43	200.00	n
1,2,3,6,7,8-HxCDF	854261000	1.25 y	28:43	1.55	200.00	n
2,3,4,6,7,8-HxCDF	785732000	1.24 y	30:15	1.42	200.00	n
1,2,3,7,8,9-HxCDF	724174000	1.25 y	31:27	1.31	200.00	n
Total HxCDF	-	- n	-	1.43	800.00	n
13C-1,2,3,6,7,8-HxCDD	156761500	1.29 y	30:41	0.73	100.00	n
1,2,3,4,7,8-HxCDD	445475000	1.31 y	30:33	1.42	200.00	n
1,2,3,6,7,8-HxCDD	473158000	1.23 y	30:43	1.51	200.00	n
1,2,3,7,8,9-HxCDD	511234000	1.27 y	31:11	1.63	200.00	n
Total HxCDD	-	- n	-	1.52	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	227894400	0.44 y	33:18	1.07	100.00	n
1,2,3,4,6,7,8-HpCDF	757485000	1.07 y	33:18	1.66	200.00	n
1,2,3,4,7,8,9-HpCDF	666451000	1.06 y	34:30	1.46	200.00	n
Total HpCDF	-	- n	-	1.56	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	163177900	1.04 y	34:10	0.76	100.00	n
1,2,3,4,6,7,8-HpCDD	457977000	1.10 y	34:11	1.40	200.00	n
Total HpCDD	-	- n	-	1.40	200.00	n
13C-OCDD	322080000	0.91 y	36:46	0.75	200.00	n
OCDF	1121648000	0.92 y	36:52	1.74	400.00	n
OCDD	782257000	0.91 y	36:47	1.21	400.00	n

Run #5 Filename 15DE091D5 S: 13 I: 1
 Acquired: 15-DEC-09 18:51:14 Processed: 15-DEC-09 21:01:34
 Run: 15DE091D5IC7 Analyte: 8290 Cal: 82901215091D5

Comments:

Sample text: ST1215K :CS5 09DXN412

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	164458000	0.82 y	16:39	-	100.00	n
13C-2,3,7,8-TCDF	261509000	0.81 y	16:12	1.59	100.00	n
2,3,7,8-TCDF	632517000	0.80 y	16:13	1.21	200.00	n
Total TCDF	-	- n	-	1.21	200.00	n
13C-2,3,7,8-TCDD	151694400	0.79 y	16:50	0.92	100.00	n
2,3,7,8-TCDD	392367000	0.78 y	16:51	1.29	200.00	n
Total TCDD	-	- n	-	1.29	200.00	n
37Cl-2,3,7,8-TCDD	1310606000	1.00 y	16:51	3.98	200.00	n
13C-1,2,3,7,8-PeCDF	189093600	1.66 y	20:48	1.15	100.00	n
1,2,3,7,8-PeCDF	2661700000	1.58 y	20:49	1.41	1000.00	n
2,3,4,7,8-PeCDF	2485014000	1.56 y	22:01	1.31	1000.00	n
Total F2 PeCDF	-	- n	-	1.36	2000.00	n
Total F1 PeCDF	-	- n	-	1.36	2000.00	n
13C-1,2,3,7,8-PeCDD	96926600	1.69 y	22:39	0.59	100.00	n
1,2,3,7,8-PeCDD	1336105000	1.60 y	22:40	1.38	1000.00	n
Total PeCDD	-	- n	-	1.38	1000.00	n
13C-1,2,3,7,8,9-HxCDD	106133100	1.29 y	31:13	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	134778100	0.53 y	28:28	1.27	100.00	n
1,2,3,4,7,8-HxCDF	1883473000	1.23 y	28:30	1.40	1000.00	n
1,2,3,6,7,8-HxCDF	2045998000	1.24 y	28:48	1.52	1000.00	n
2,3,4,6,7,8-HxCDF	1911423000	1.24 y	30:17	1.42	1000.00	n
1,2,3,7,8,9-HxCDF	1638574000	1.23 y	31:28	1.22	1000.00	n
Total HxCDF	-	- n	-	1.39	4000.00	n
13C-1,2,3,6,7,8-HxCDD	77866800	1.34 y	30:44	0.73	100.00	n
1,2,3,4,7,8-HxCDD	1092674000	1.26 y	30:35	1.40	1000.00	n
1,2,3,6,7,8-HxCDD	1196167000	1.28 y	30:45	1.54	1000.00	n
1,2,3,7,8,9-HxCDD	1204237000	1.28 y	31:13	1.55	1000.00	n
Total HxCDD	-	- n	-	1.50	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	105220700	0.43 y	33:18	0.99	100.00	n
1,2,3,4,6,7,8-HpCDF	1750760000	1.06 y	33:19	1.66	1000.00	n
1,2,3,4,7,8,9-HpCDF	1455976000	1.06 y	34:30	1.38	1000.00	n
Total HpCDF	-	- n	-	1.52	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	75541300	1.07 y	34:11	0.71	100.00	n
1,2,3,4,6,7,8-HpCDD	1047768000	1.09 y	34:11	1.39	1000.00	n
Total HpCDD	-	- n	-	1.39	1000.00	n
13C-OCDD	133215700	0.90 y	36:46	0.63	200.00	n
OCDF	2365810000	0.91 y	36:52	1.78	2000.00	n
OCDD	1643661000	0.90 y	36:47	1.23	2000.00	n

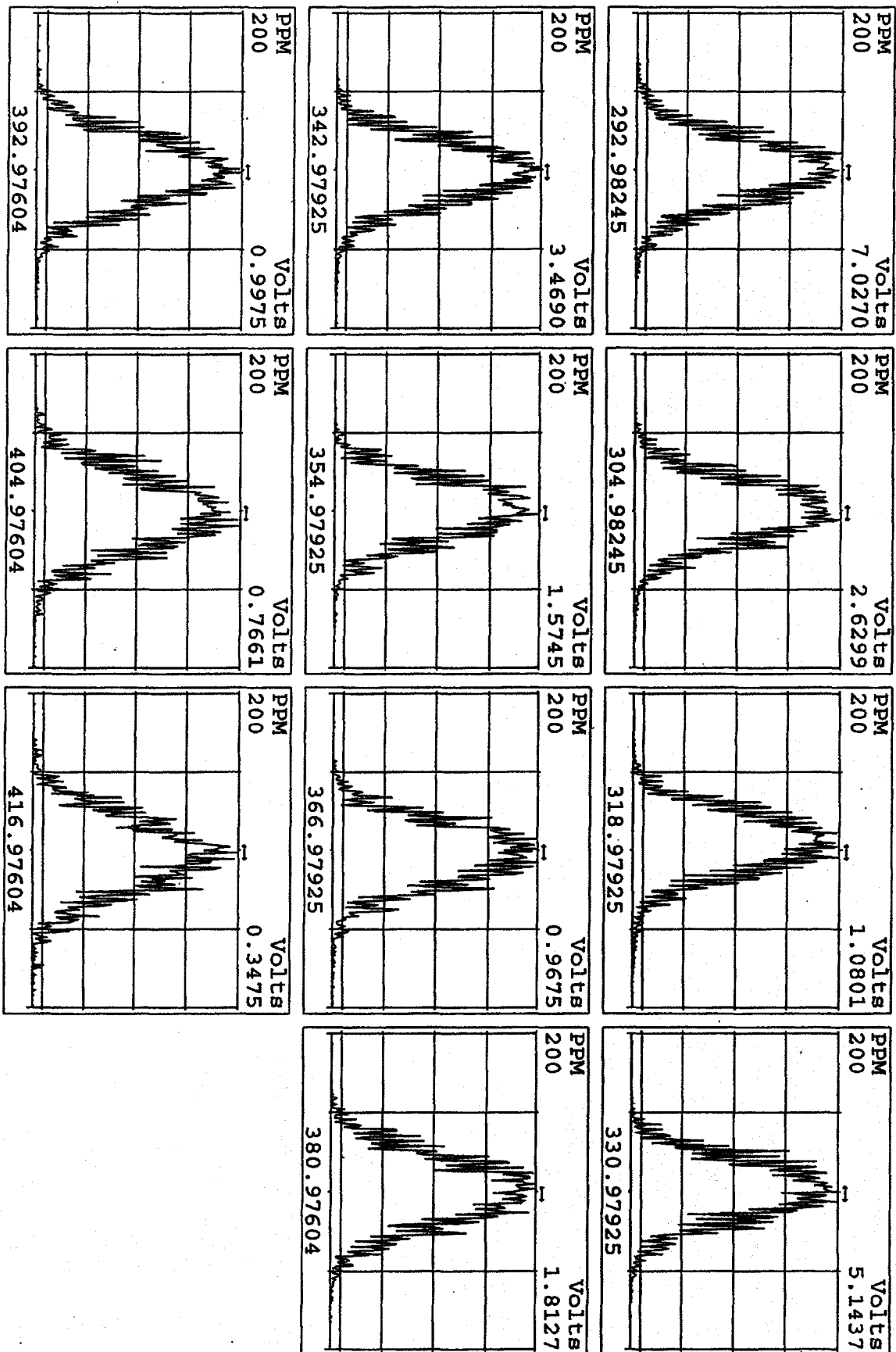
Run: 15DE091DS Analyte: TETRAS Cal: TETRA51215091DS

ST1215J :CS1 09DXN236 ST1215I :CS2 09DXN237 ST1215H :CS3 09DXN384
 ST1215F :CS4 09DXN311 ST1215K :CS5 09DXN412

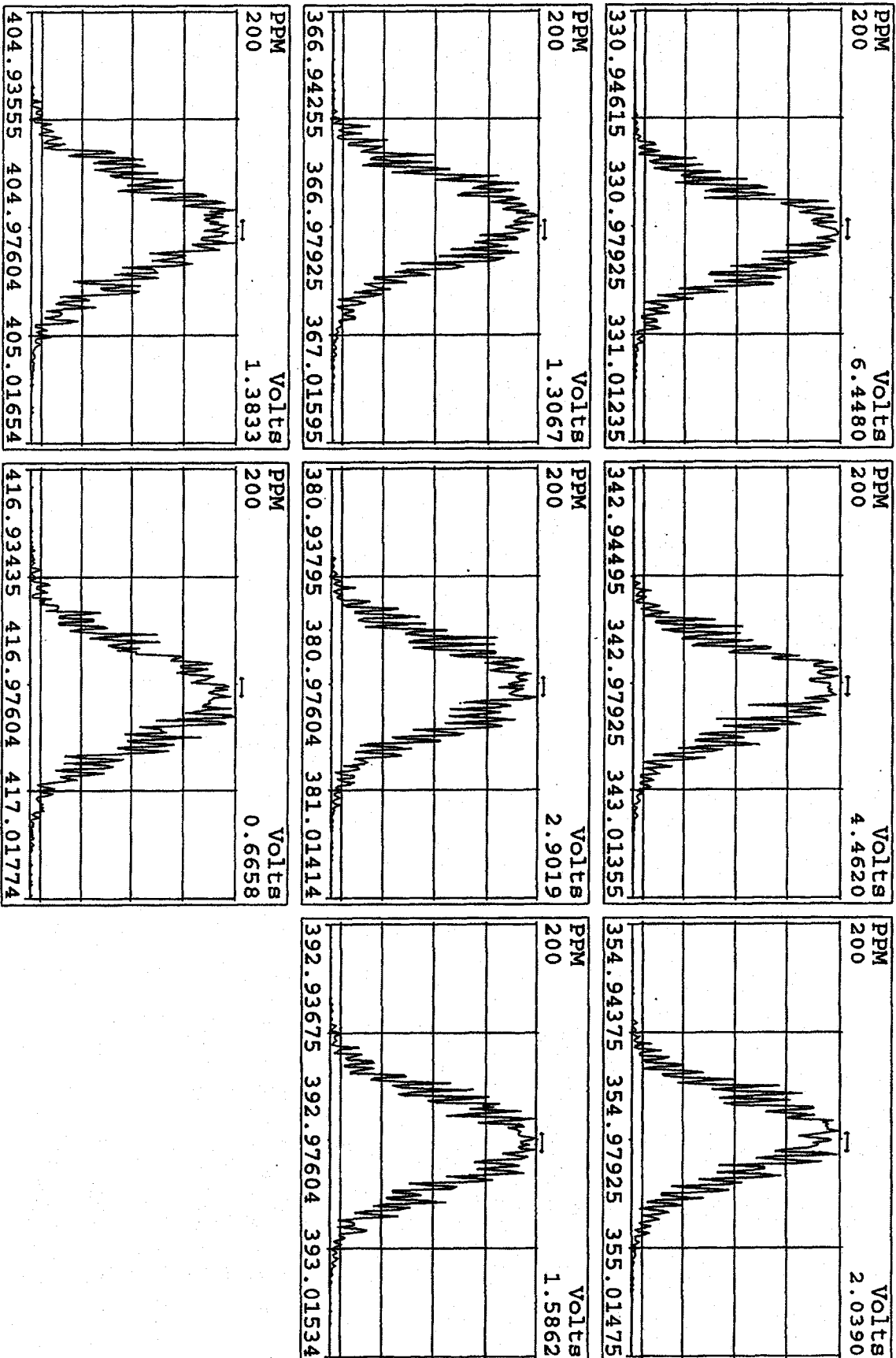
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.652	0.065	3.91 %	1.59	1.64	1.72	1.72	1.59
2,3,7,8-TCDF	1.125	0.124	11.0 %	0.98	1.00	1.20	1.24	1.21
13C-2,3,7,8-TCDD	0.944	0.035	3.72 %	0.89	0.96	0.97	0.98	0.92
2,3,7,8-TCDD	1.185	0.109	9.18 %	1.07	1.08	1.20	1.29	1.29
37Cl-2,3,7,8-TCDD	2.774	0.760	27.4 %	2.08	2.28	2.52	3.00	3.98

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
15DE091D5	1	ST1215	CS3 09DXN384				1.000	
15DE091D5	2	CP1215	DB-5 CPSM 3732-04				1.000	
15DE091D5	3	ST1215A	CS3 09DXN384				1.000	
15DE091D5	4	ST1215B	CS2 09DXN237				1.000	
15DE091D5	5	ST1215C	CS1 09DXN236				1.000	
15DE091D5	6	ST1215D	CS1 09DXN236				1.000	
15DE091D5	7	ST1215E	CS5 09DXN412				1.000	
15DE091D5	8	ST1215F	CS4 09DXN311	270V			1.000	
15DE091D5	9	ST1215G	CS5 09DXN412				1.000	
15DE091D5	10	ST1215H	CS3 09DXN384				1.000	
15DE091D5	11	ST1215I	CS2 09DXN237				1.000	
15DE091D5	12	ST1215J	CS1 09DXN236				1.000	
15DE091D5	13	ST1215K	CS5 09DXN412				1.000	
15DE091D5	14	ST1215L	2nd Source 3249-38				1.000	
15DE091D5	15						1.000	
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15DE091D5	17						1.000	
15DE091D5	18		MG 12/15/09				1.000	

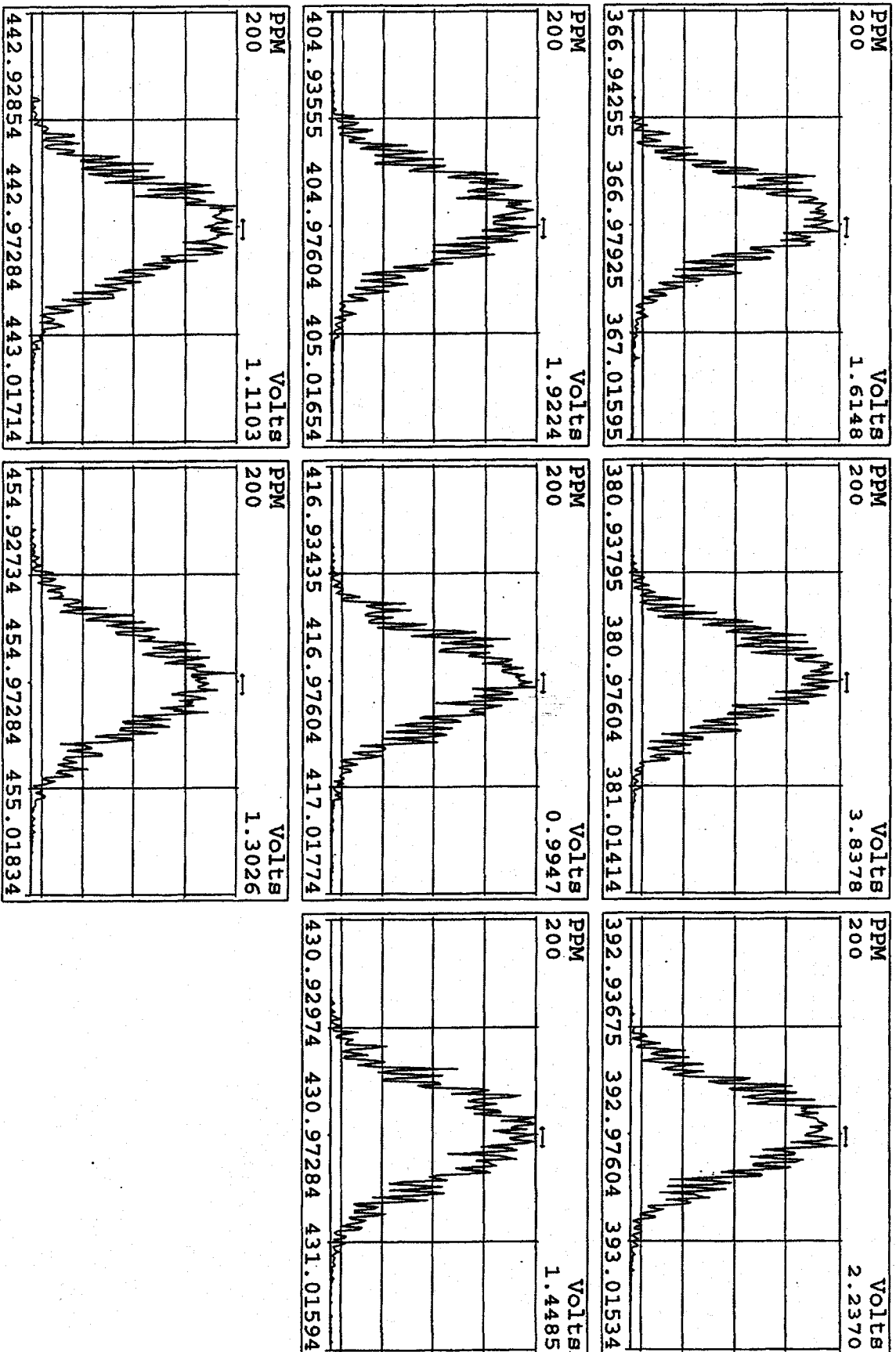
Peak Locate Examination: 15-DEC-2009: 10:08 File: 15DE091D5
Experiment: DIOXIN Function: 1 Reference: PFK



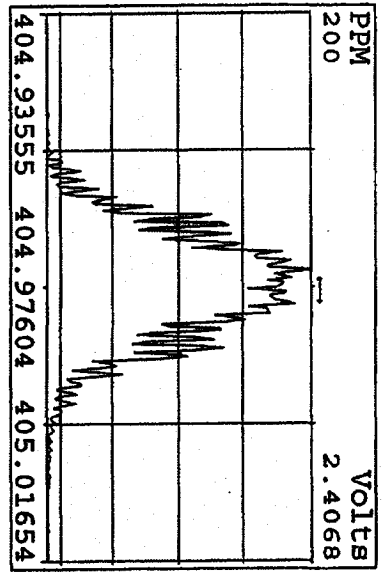
Peak Locate Examination:15-DEC-2009:10:21 File:15DE091D5
Experiment:DIOXIN Function:2 Reference:PRK



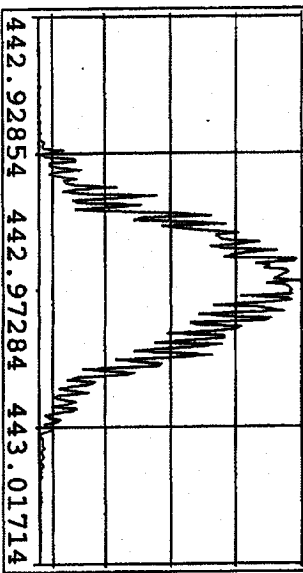
Peak Locate Examination:15-DEC-2009:10:25 File:15DE091DS
Experiment:DIOXIN Function:3 Reference:PFK



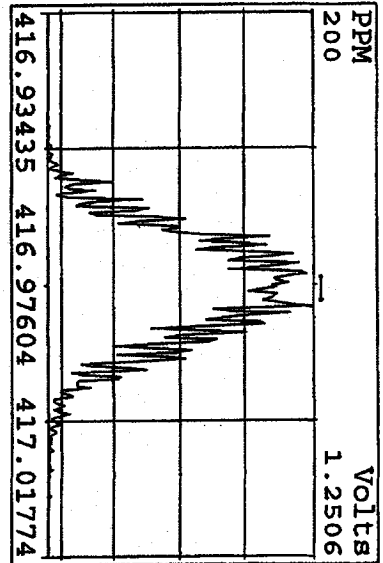
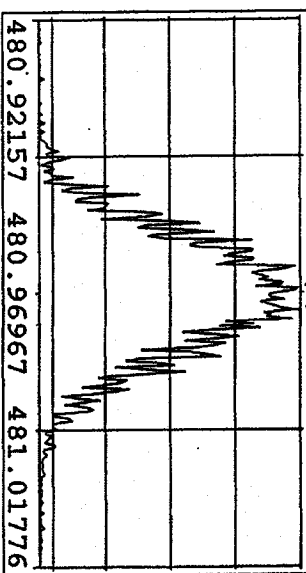
Peak Locate Examination: 15-DEC-2009:10:26 File: 15DE091D5
 Experiment: DIOXIN Function: 4 Reference: PFK



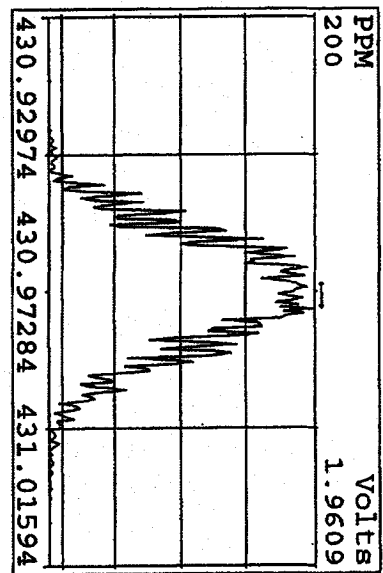
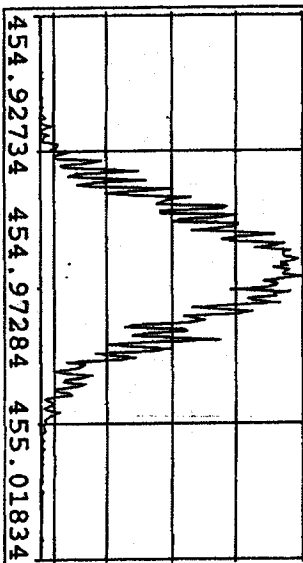
PPM 200 VOLTS 1.5501



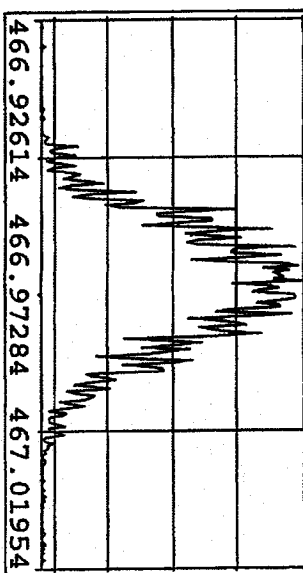
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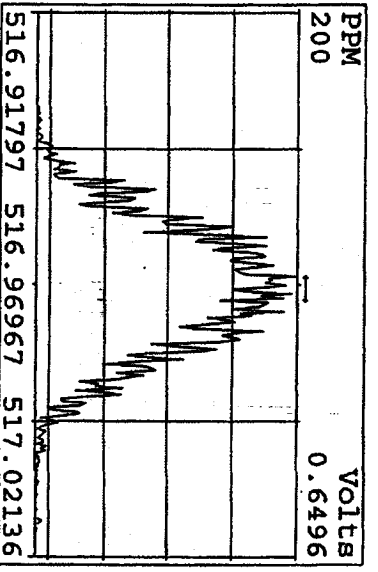
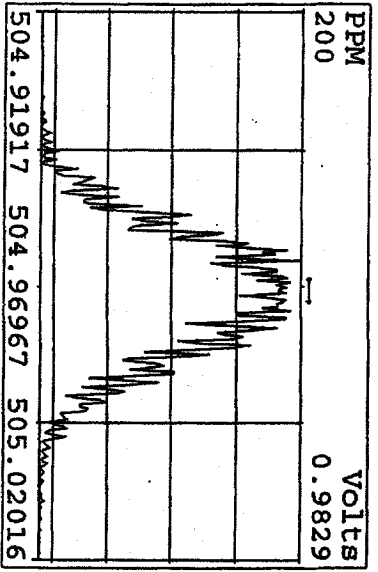
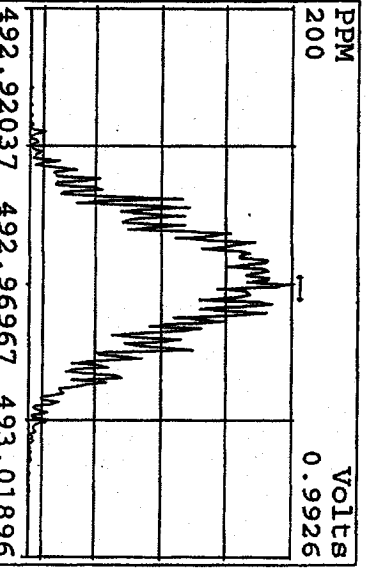
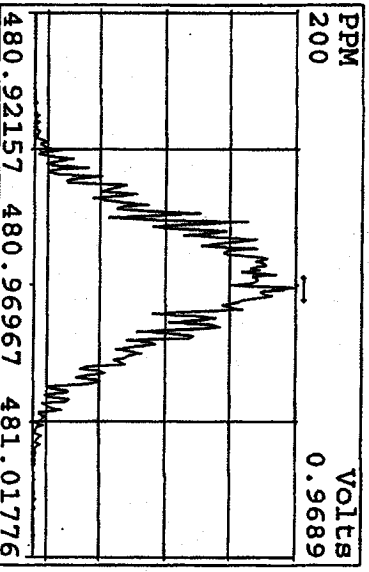
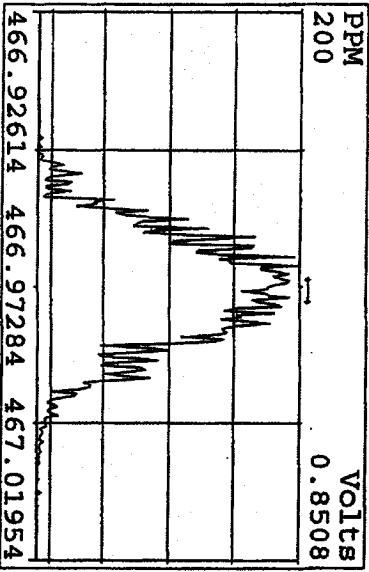
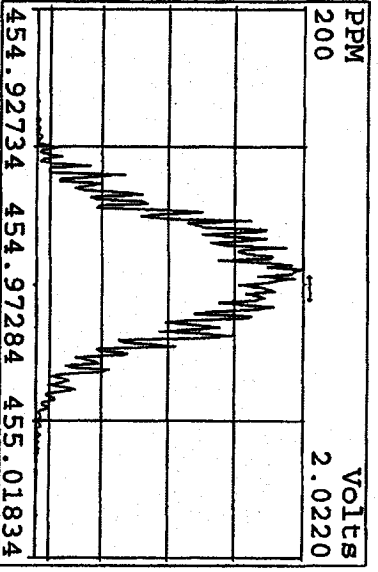
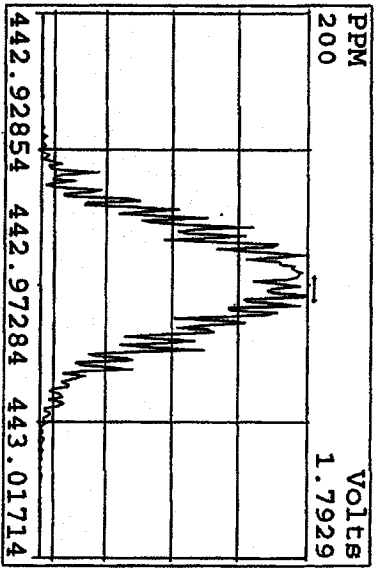
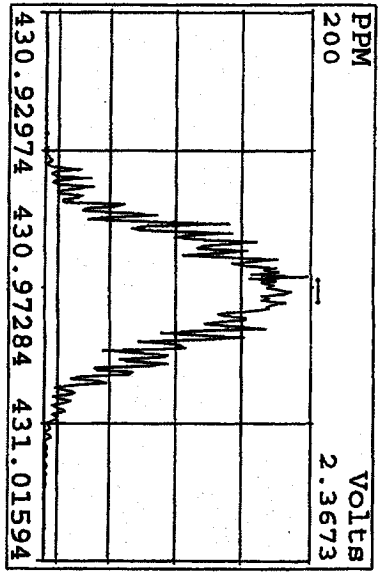
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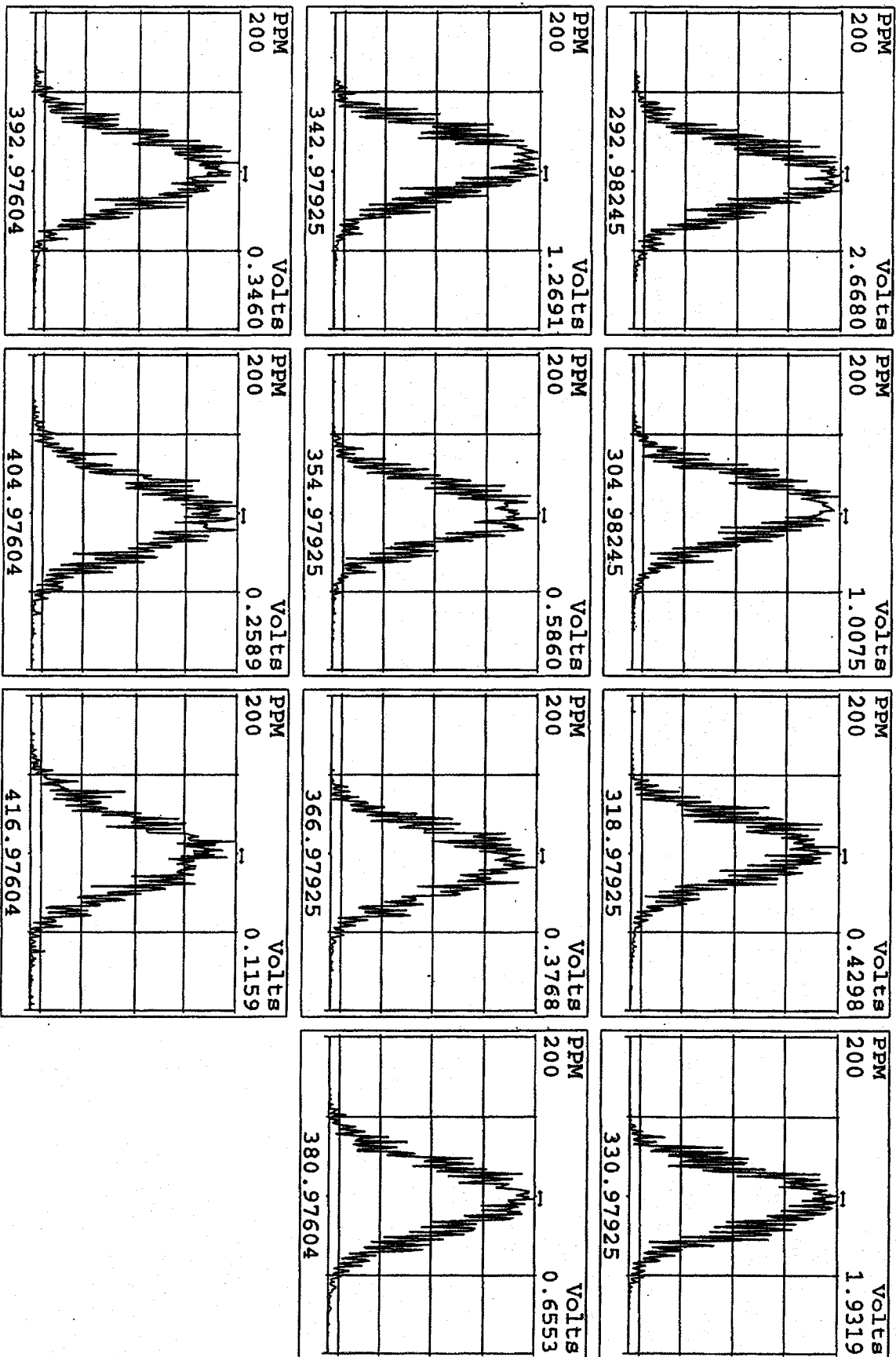
PPM 200 VOLTS 0.6979



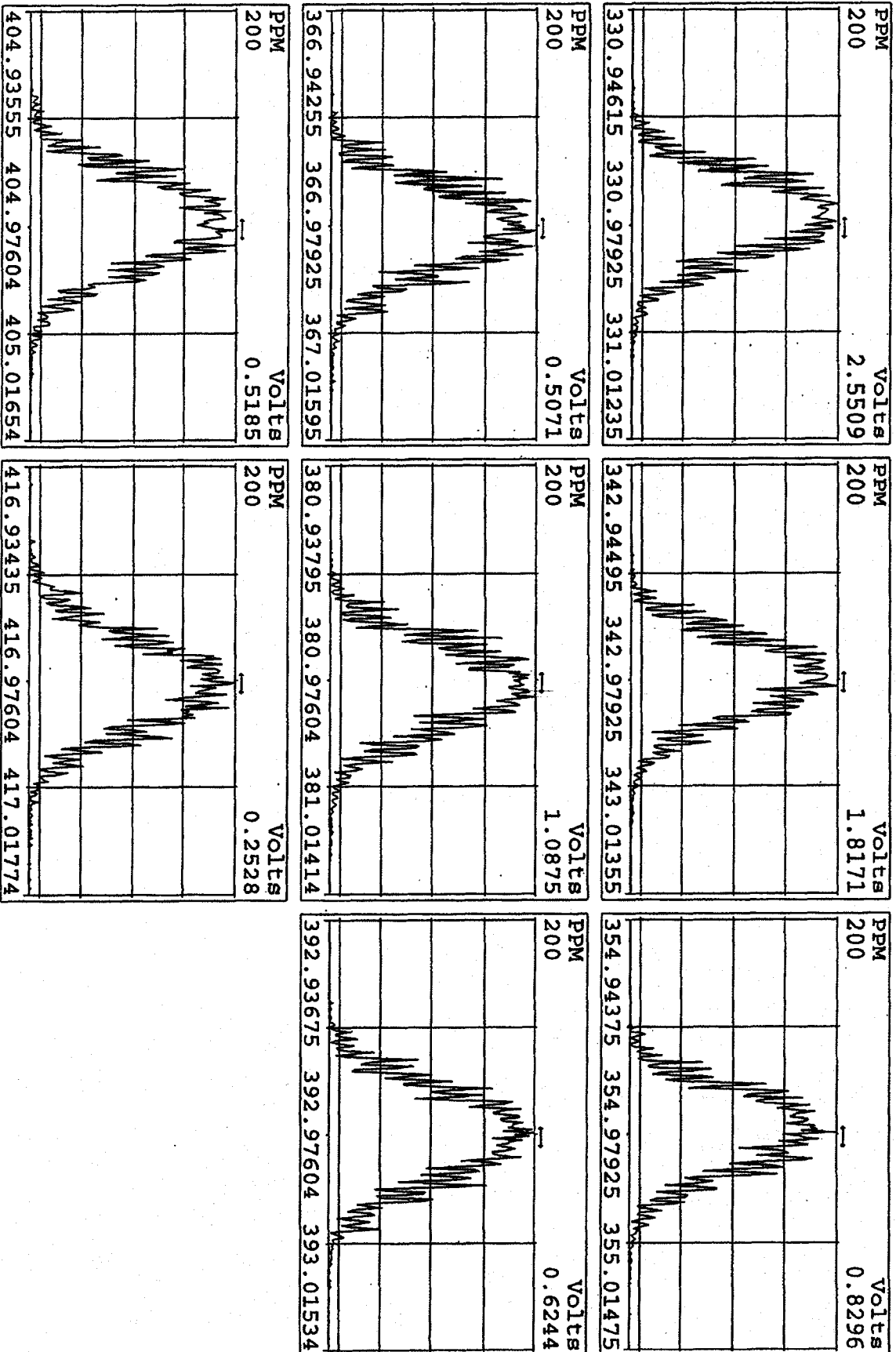
Peak Locate Examination: 15-DEC-2009: 10:27 File: 15DE091D5
 Experiment: DIOXIN Function: 5 Reference: PFX



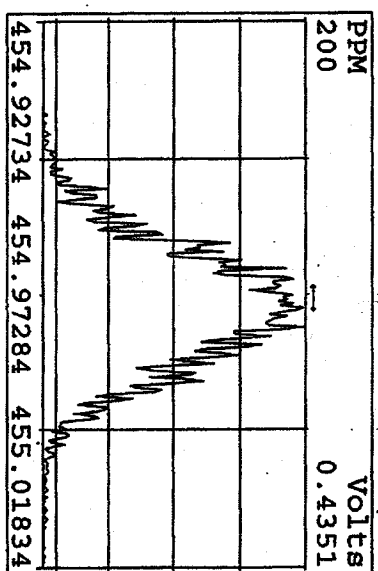
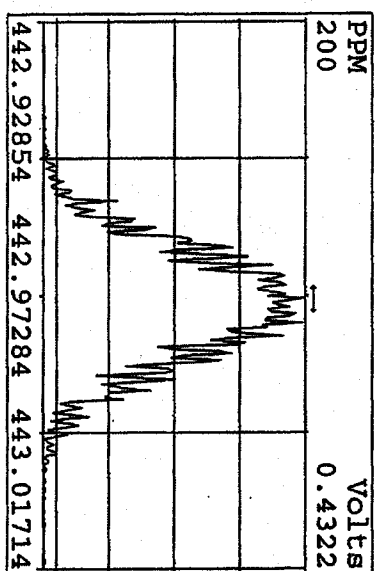
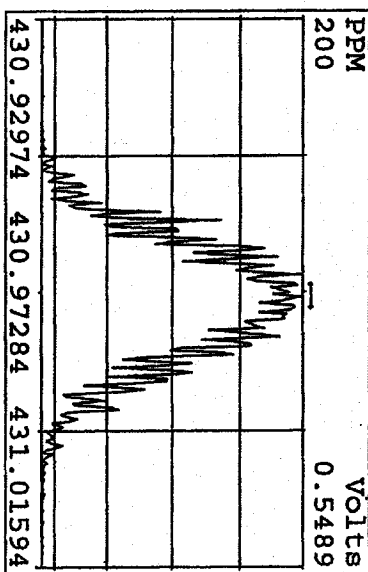
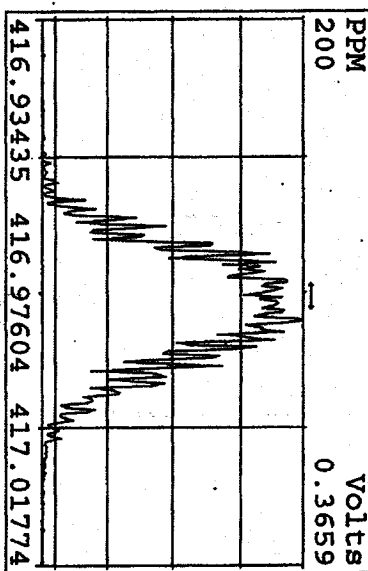
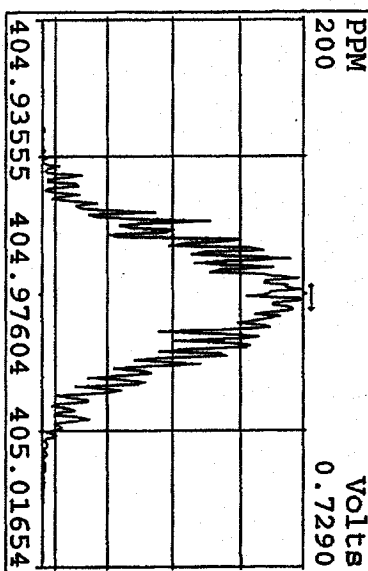
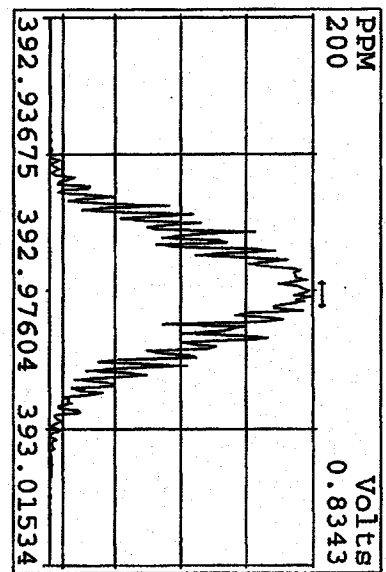
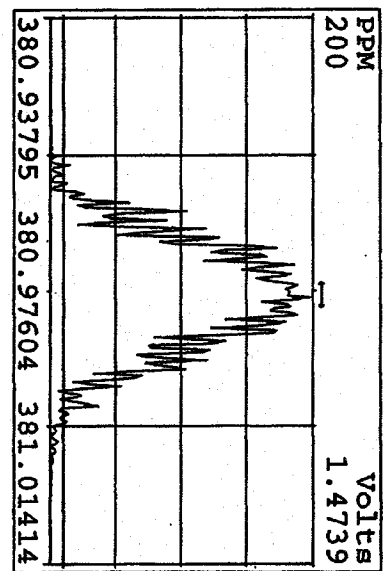
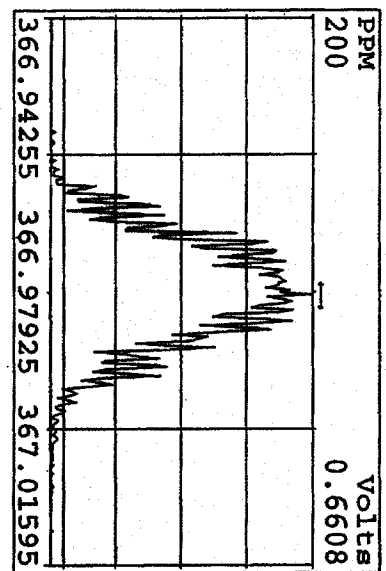
Peak Locate Examination:15-DEC-2009:20:31 File:RESCHK15DE091DS
Experiment:DIOXIN Function:1 Reference:PFK



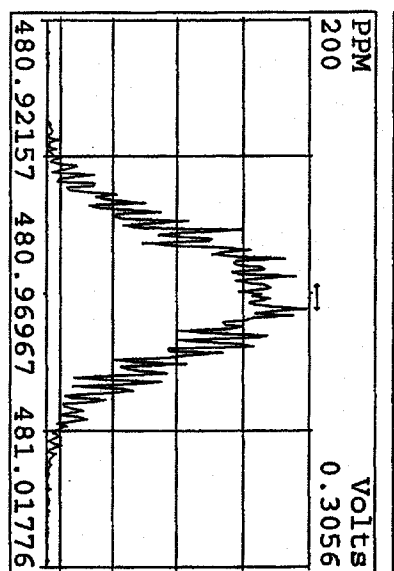
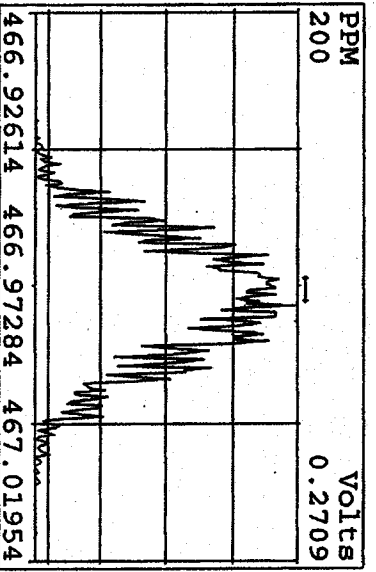
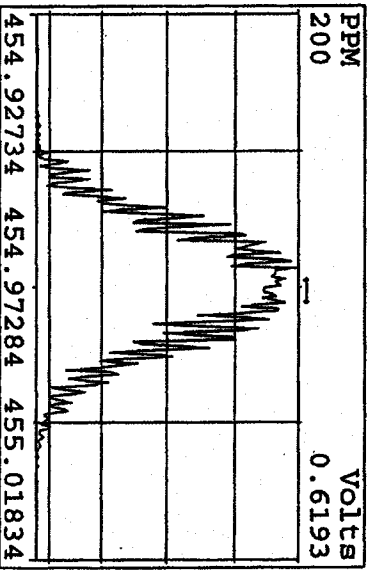
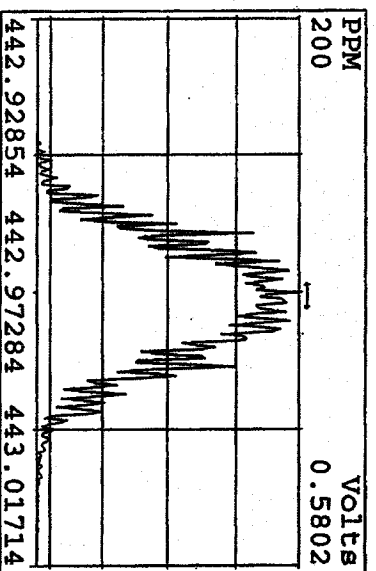
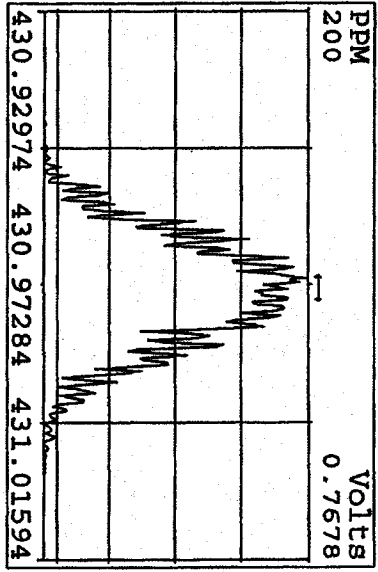
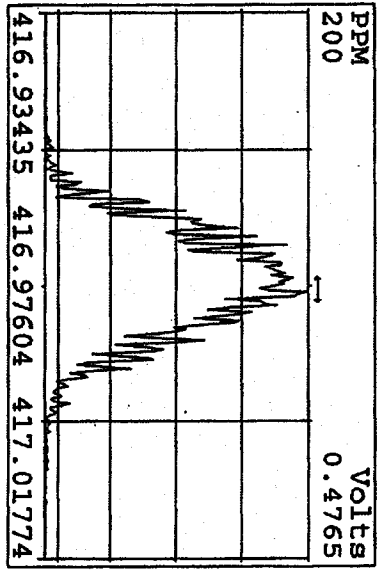
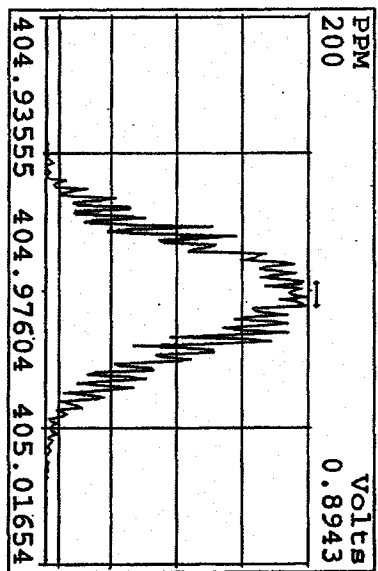
Peak Locate Examination: 15-DEC-2009: 20:34 File: RBSCHK15DE091D5
 Experiment: DIOXIN Function: 2 Reference: PFK



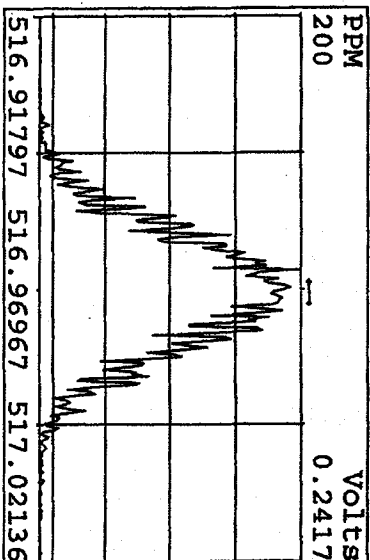
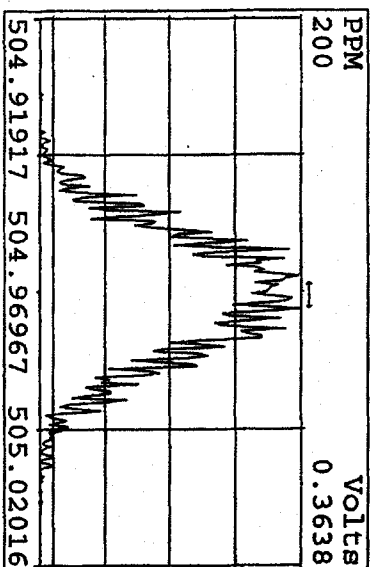
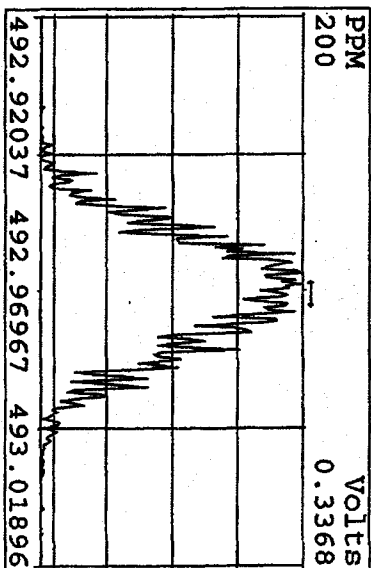
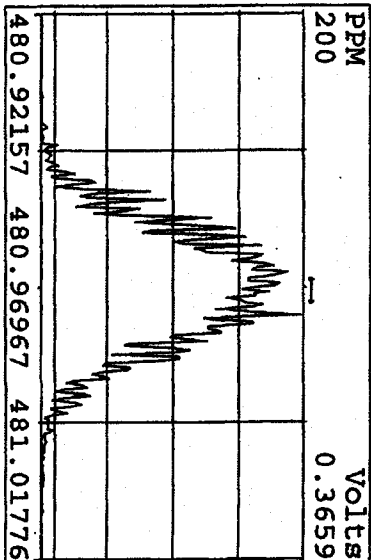
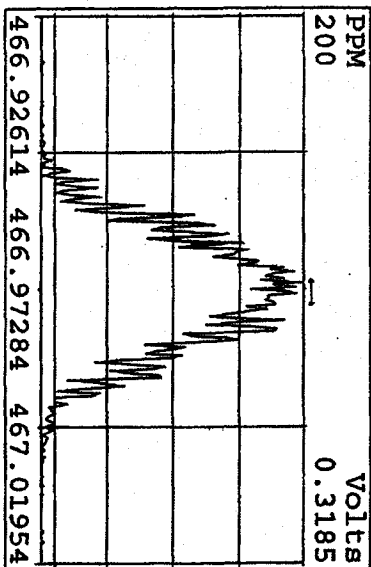
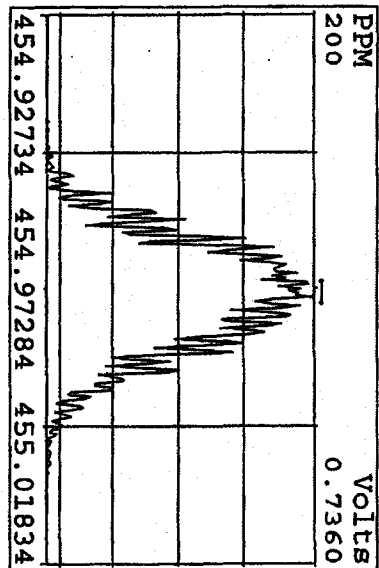
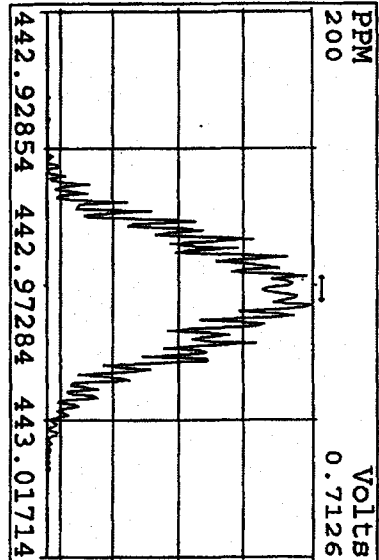
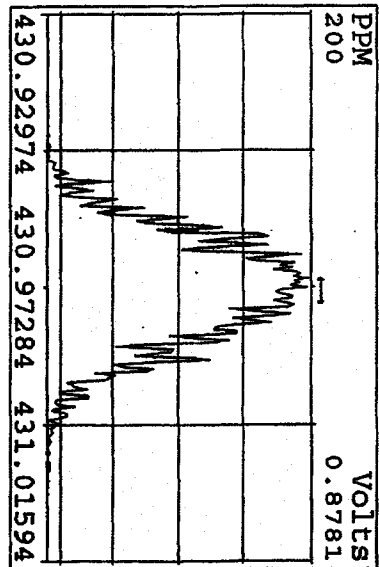
Peak Locate Examination: 15-DEC-2009: 20:36 File: RESCHK15DE091D5
 Experiment: DIOXIN Function: 3 Reference: PFK



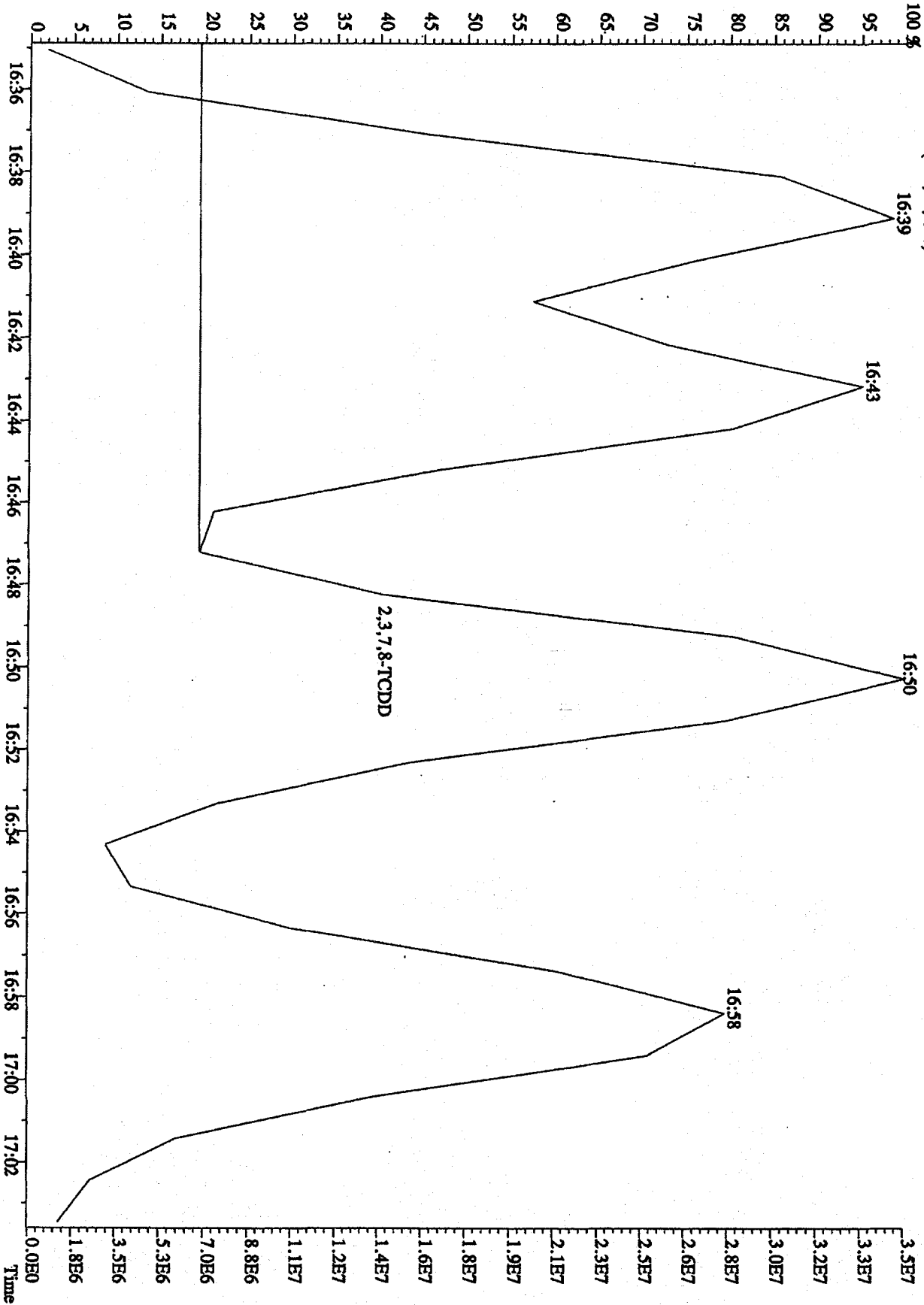
Peak Locate Examination:15-DEC-2009:20:38 File:RESCHK15DE091D5
 Experiment:DIOXIN Function:4 Reference:PFK



Peak Locate Examination: 15-DEC-2009: 20:40 File: RESCHK15DE091D5
 Experiment: DIOXIN Function: 5 Reference: PFK



File:15DE091D5 #1-355 Acq:15-DEC-2009 11:11:01 GC EI + Voltage SIR 70SE
 Sample#2 Text:CP1215 :DB-5 CPSM 3732-04 Exp:DIOXIN
 321.8936 S:2.BSUB(128,15,-3.0)



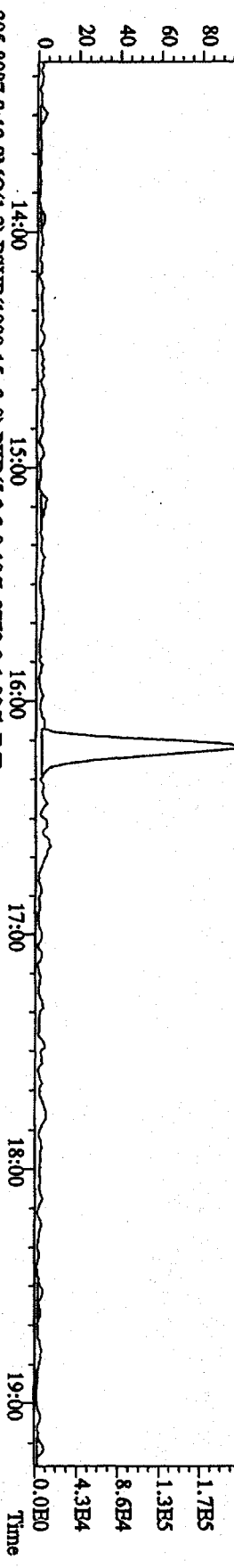
Run text: ST1215L Sample text: ST1215L :2nd Source 3249-38
 Run #6 Filename: 15DE091D5 S: 14 I: 1 Results: 15DE091D51613
 Acquired: 15-DEC-09 19:35:13 Processed: 15-DEC-09 20:24:27
 Run: 15DE091D5 Analyte: 1613 Cal: 16131215091D5
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	241157000	0.82 y	16:39	-	90.66	-	4.5	n
13C-2,3,7,8-TCDF	389327000	0.80 y	16:12	1.65	1954.84	2.27	97.7	n
2,3,7,8-TCDF	41341700	0.77 y	16:13	1.13	188.69	1.15	-	n
Total TCDF	42039336	0.89 n	15:52	1.13	191.88	1.15	-	n
13C-2,3,7,8-TCDD	225379000	0.81 y	16:51	0.94	1980.56	5.03	99.0	n
2,3,7,8-TCDD	23964500	0.75 y	16:52	1.19	179.43	1.54	-	n
Total TCDD	24177414	0.75 y	16:52	1.19	181.02	1.54	-	n
37C1-2,3,7,8-TCDD	61462200	1.00 y	16:52	2.77	183.74	0.45	91.9	n
13C-1,2,3,7,8-PeCDF	281149000	1.65 y	20:48	1.19	1965.21	2.32	98.3	n
1,2,3,7,8-PeCDF	88601600	1.62 y	20:49	1.33	473.07	1.71	-	n
13C-2,3,4,7,8-PeCDF	331739000	1.65 y	21:59	1.37	2003.64	2.01	100.2	n
2,3,4,7,8-PeCDF	83830700	1.61 y	22:01	1.10	461.37	1.80	-	n
Total F2 PeCDF	173758701	1.40 y	19:34	1.21	941.63	1.75	-	n
Total F1 PeCDF	129992	0.71 n	14:27	1.21	0.70	1.45	-	n
13C-1,2,3,7,8-PeCDD	149267800	1.64 y	22:38	0.63	1950.63	2.09	97.5	n
1,2,3,7,8-PeCDD	42952400	1.69 y	22:40	1.26	457.93	2.31	-	n
Total PeCDD	43110578	2.12 n	22:20	1.26	459.62	2.31	-	n
13C-1,2,3,7,8,9-HxCDD	146342100	1.32 y	31:12	-	76.10	-	-	n
13C-1,2,3,4,7,8-HxCDF	206985000	0.55 y	28:27	1.27	2225.42	7.50	111.3	n
1,2,3,4,7,8-HxCDF	58400300	1.25 y	28:28	1.28	440.08	4.21	-	n
13C-1,2,3,6,7,8-HxCDF	217743300	0.54 y	28:45	1.35	2208.72	7.08	110.4	n
1,2,3,6,7,8-HxCDF	65481100	1.28 y	28:47	1.31	460.15	4.29	-	n
13C-2,3,4,6,7,8-HxCDF	176898000	0.54 y	30:15	1.15	2099.23	8.28	105.0	n
2,3,4,6,7,8-HxCDF	56871800	1.26 y	30:17	1.43	448.21	3.45	-	n
13C-1,2,3,7,8,9-HxCDF	156973300	0.52 y	31:27	1.06	2033.32	9.04	101.7	n
1,2,3,7,8,9-HxCDF	50922200	1.25 y	31:28	1.39	465.61	3.43	-	n
Total HxCDF	231889372	1.25 y	28:28	1.35	1815.72	3.87	-	n
13C-1,2,3,4,7,8-HxCDD	139590500	1.34 y	30:33	0.87	2189.05	2.47	109.5	n
1,2,3,4,7,8-HxCDD	34015200	1.31 y	30:35	1.05	465.17	2.92	-	n
13C-1,2,3,6,7,8-HxCDD	120406600	1.32 y	30:43	0.72	2278.03	2.98	113.9	n
1,2,3,6,7,8-HxCDD	37714300	1.30 y	30:44	1.39	450.35	2.68	-	n
1,2,3,7,8,9-HxCDD	35553500	1.31 y	31:13	1.33	411.21	2.53	-	n
Total HxCDD	107283000	1.31 y	30:35	1.25	1326.73	2.71	-	n
13C-1,2,3,4,6,7,8-HpCDF	158768500	0.44 y	33:18	1.05	2067.07	17.39	103.4	n
1,2,3,4,6,7,8-HpCDF	57878600	1.06 y	33:18	1.55	470.76	1.95	-	n
13C-1,2,3,4,7,8,9-HpCDF	152078300	0.42 y	34:30	1.03	2025.36	17.79	101.3	n
1,2,3,4,7,8,9-HpCDF	46051600	1.08 y	34:31	1.34	452.09	2.70	-	n
Total HpCDF	104259389	1.06 y	33:18	1.45	925.77	2.29	-	n

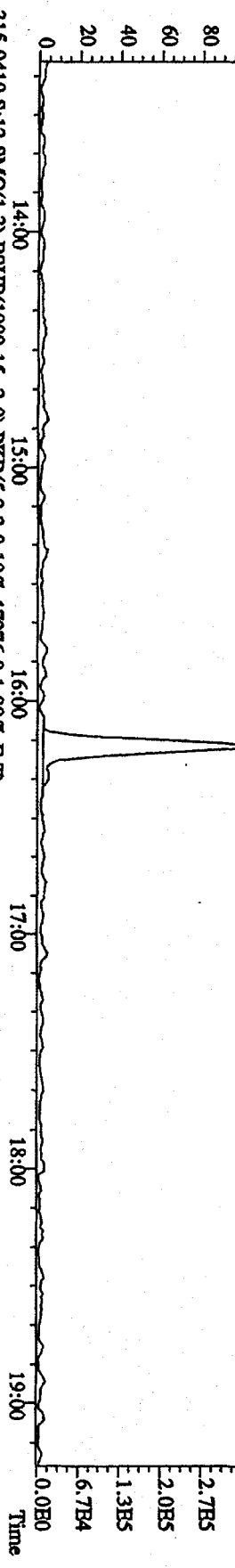
13C-1,2,3,4,6,7,8-HpCDD	109023500	1.08	y	34:10	0.76	1964.78	7.88	98.2	n
1,2,3,4,6,7,8-HpCDD	31803100	1.10	y	34:11	1.28	456.84	2.26	-	n
Total HpCDD	31966107	0.66	n	33:35	1.28	459.19	2.26	-	n
13C-OCDD	202331800	0.91	y	36:47	0.72	3859.59	17.37	96.5	n
OCDF	73455800	0.91	y	36:53	1.58	920.55	3.62	-	n
OCDD	52688800	0.89	y	36:47	1.13	925.05	3.75	-	n

File:15DB091D5 #1-355 Acq:15-DEC-2009 18:09:25 GC EI+ Voltage SIR 70SB
 Sample#12 Text:ST12151 :CSI 09DXN236 Exp:DIOXIN

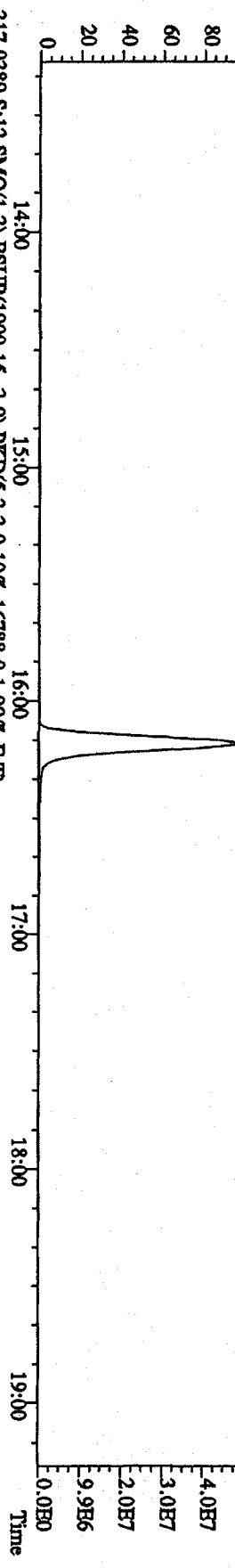
303.9016 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8772,0,1,00%,F,T)
 A9.82B5



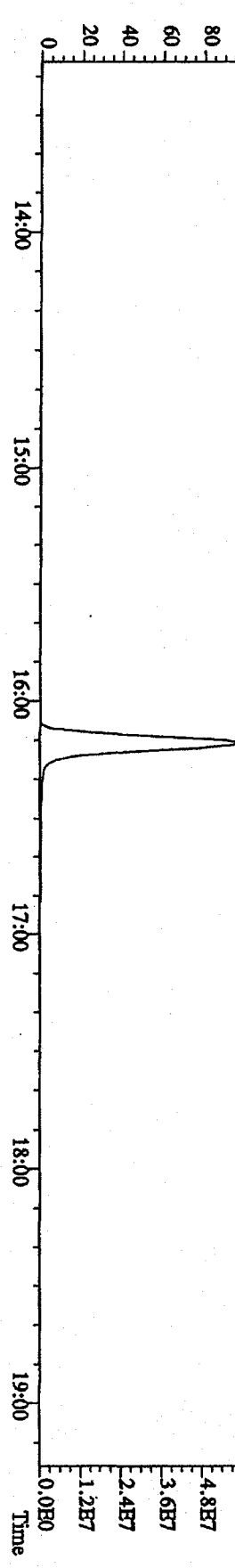
305.8987 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8772,0,1,00%,F,T)
 A1.33B6



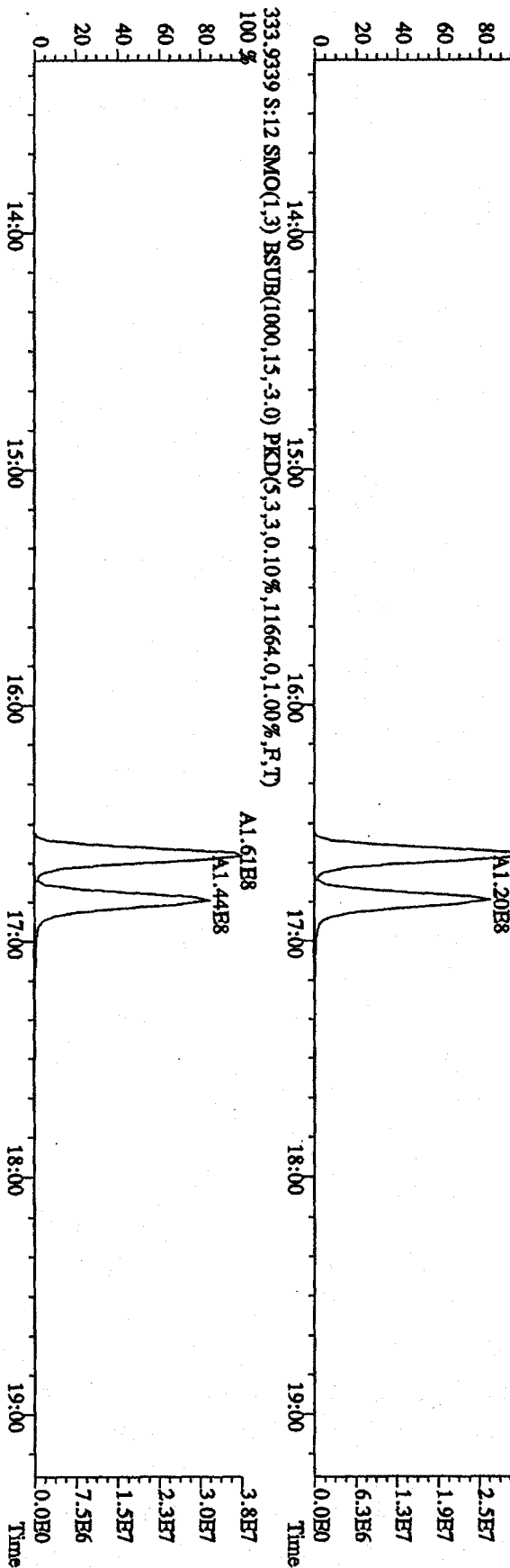
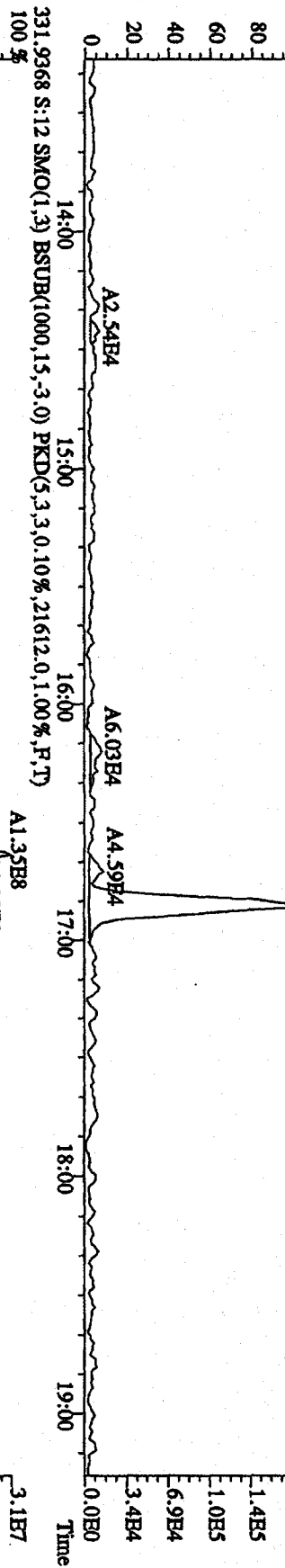
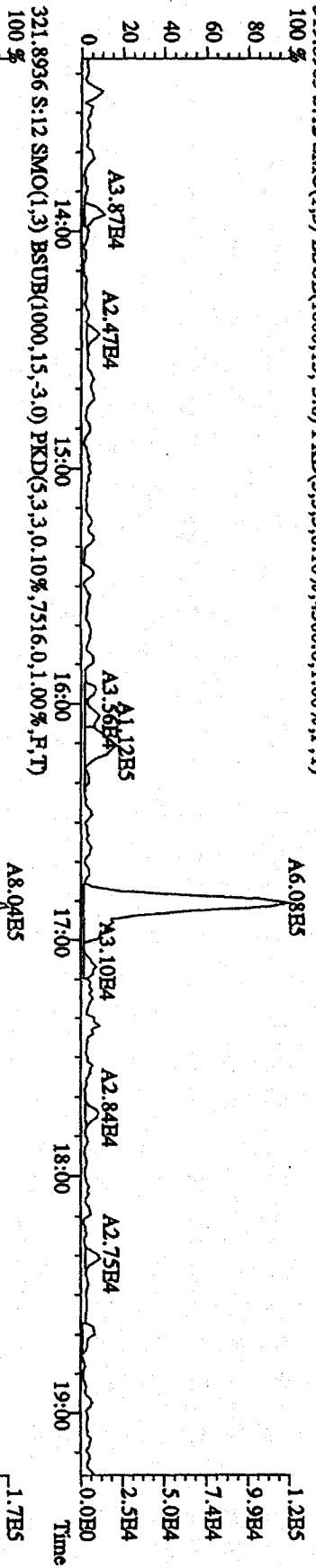
315.9419 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,17276,0,1,00%,F,T)
 A2.10E8



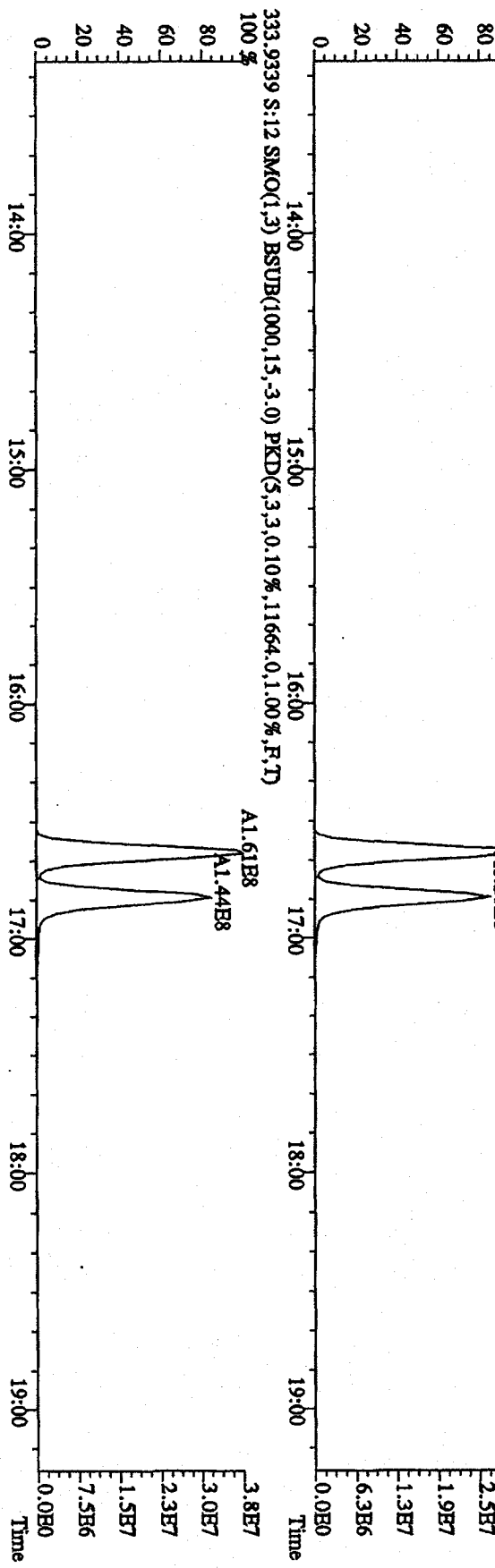
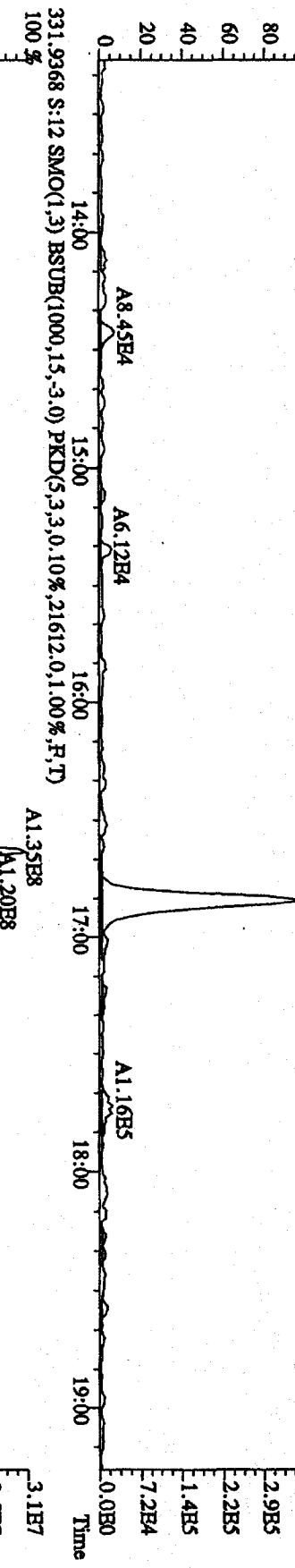
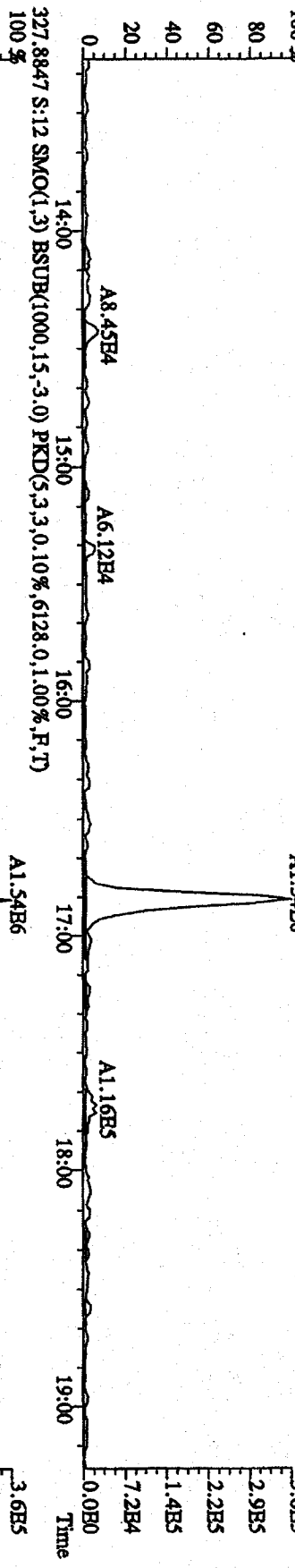
317.9389 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,16788,0,1,00%,F,T)
 A2.61E8



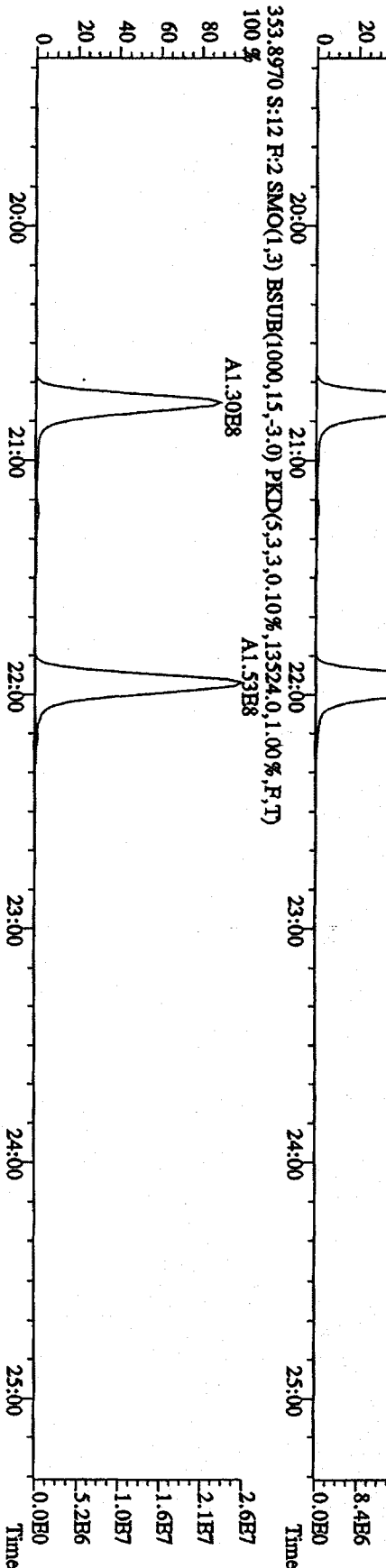
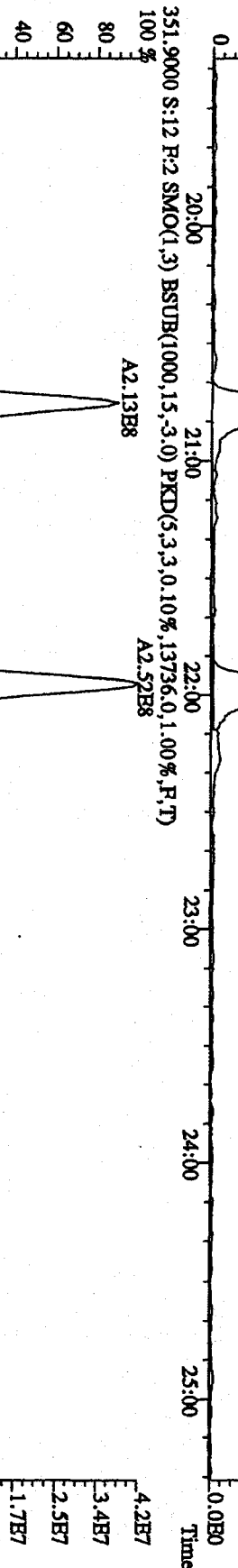
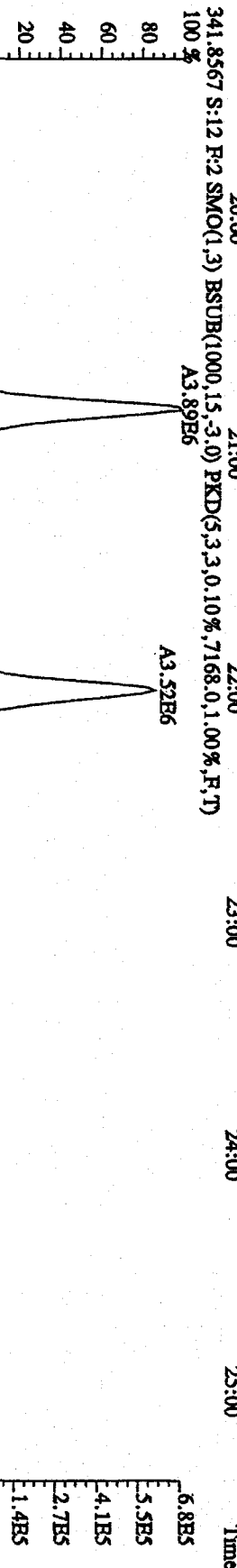
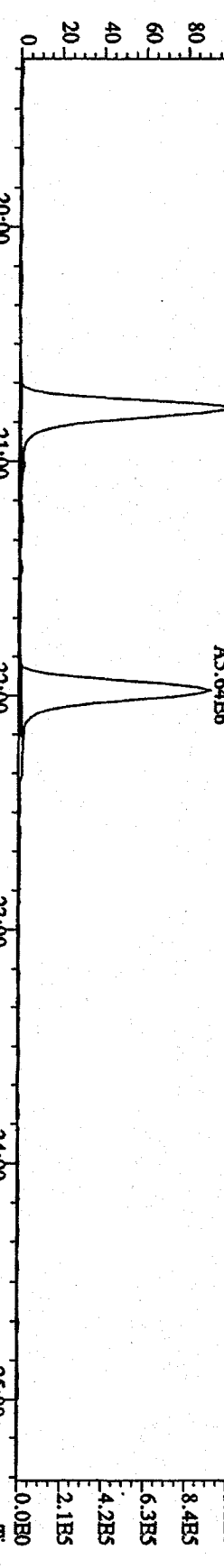
File:15DB091D5 #1-355 Acq:15-DEC-2009 18:09:25 GC HI+ Voltage SIR 70SE
 Sample#12 Text:ST1215I :CSI 09DXN236 Exp:DIOXIN
 319.8965 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4360,0,1,00%,F,T)



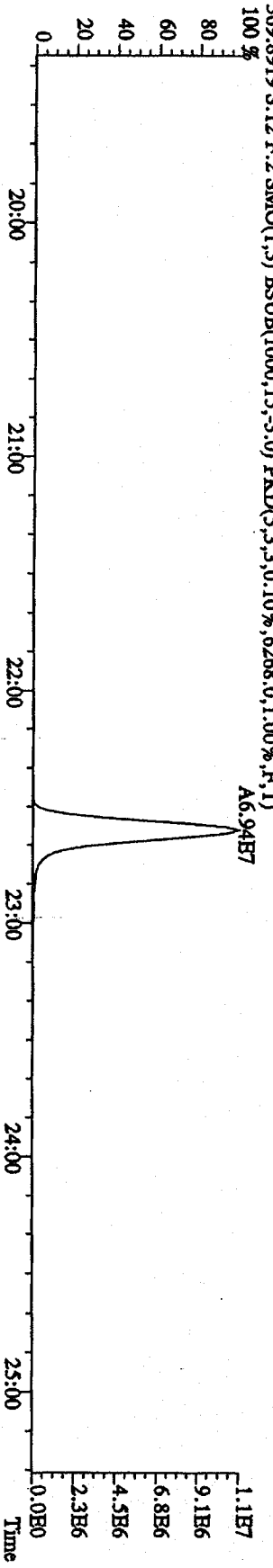
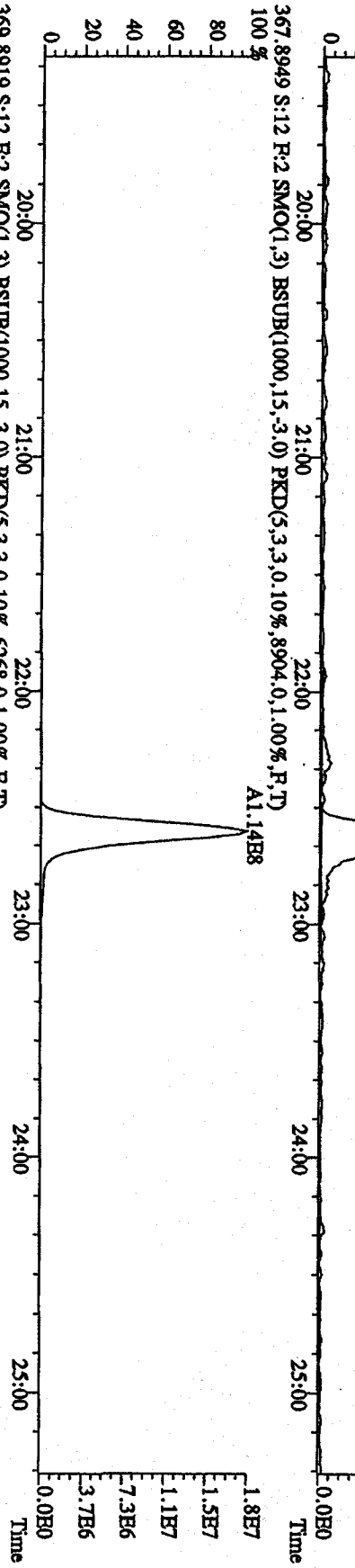
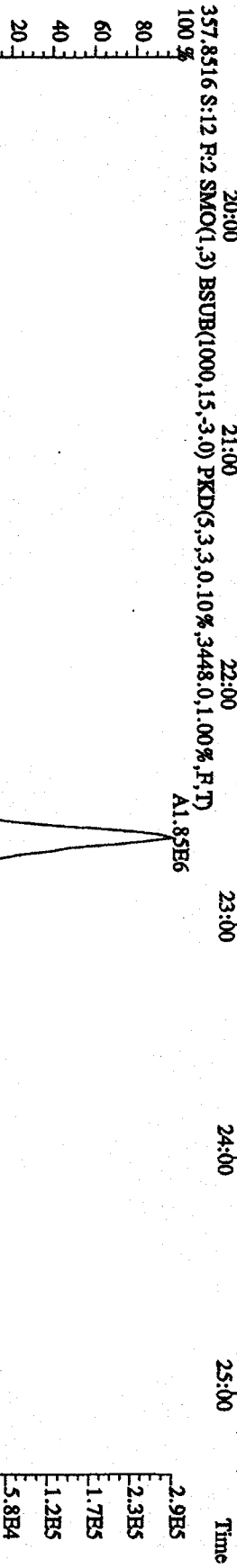
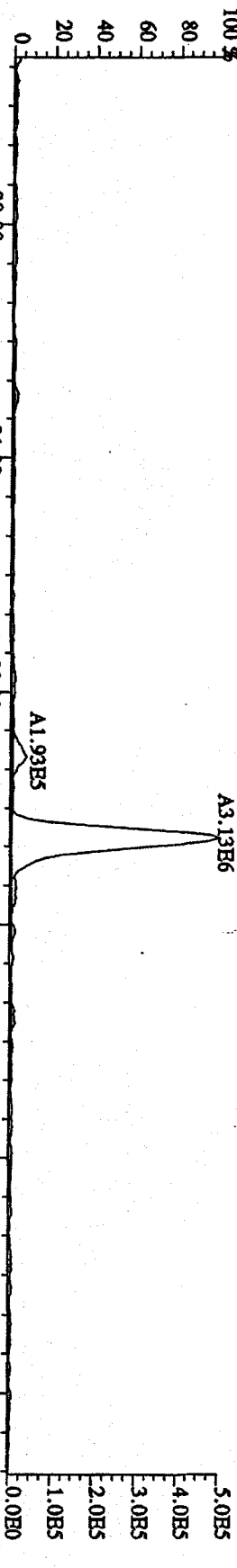
File:15DBE091D5 #1-355 Acq:15-DEC-2009 18:09:25 GC HI+ Voltage SIR 70SE
 Sample#12 Text:ST1215I :CSI 09DXKNZ36 Exp:DIOXIN
 327.8847 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6128,0,1.00%,F,T)



File:15DBE91D5 #1-427 Acq:15-DEC-2009 18:09:25 GC EI+ Voltage SIR 70SB
 Sample#12 Text:ST12151 :CSI 09DXN236 Exp:DIOXIN
 339.8597 S:12 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5464.0,1.00%,F,T)
 100%



File:15DE091D5 #1-427 Acq:15-DEC-2009 18:09:25 GC BI+ Voltage SIR 70SE
 Sample#12 Text:ST1215I :CSI 09DXN236 Exp:DIOXIN
 355.8546 S:12 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5440,0,1.00%,F,T)
 100 %

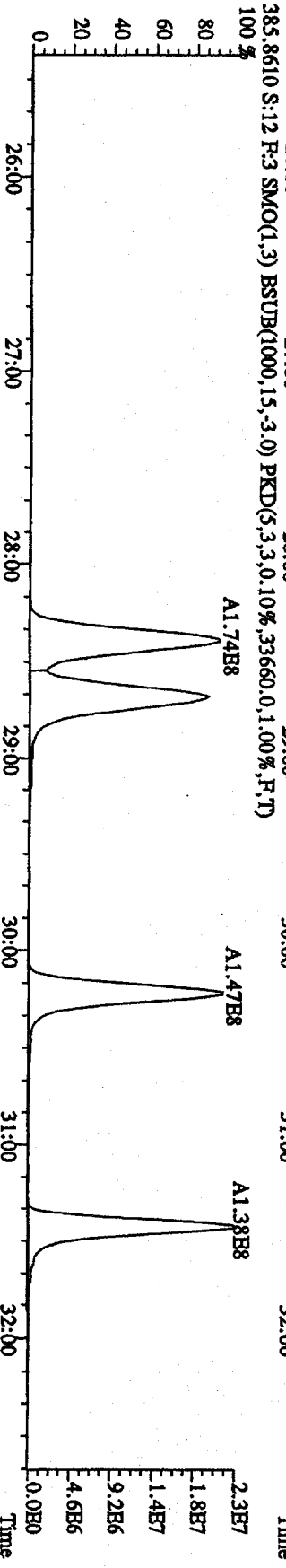
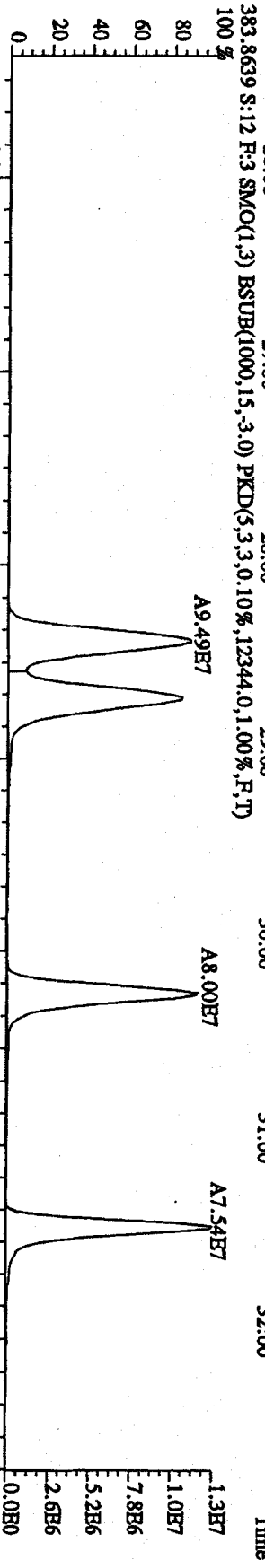
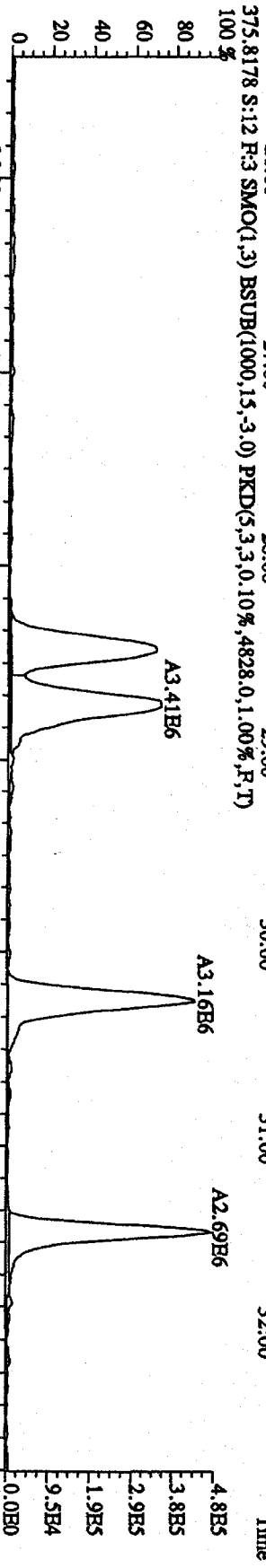
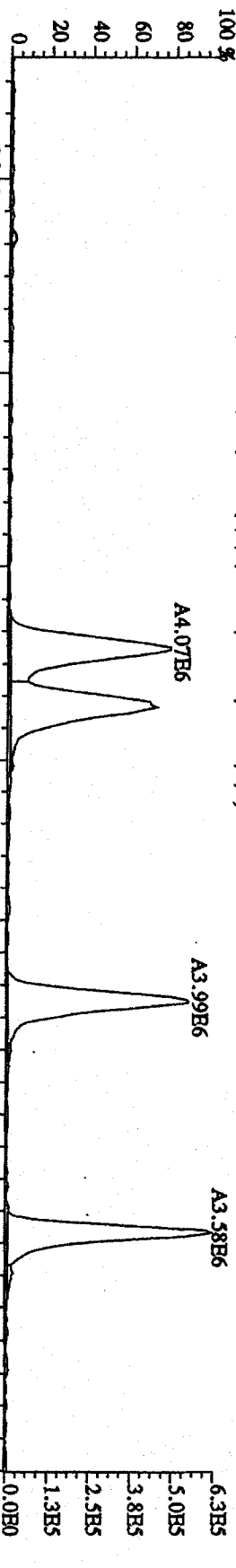


File:15DB091D5 #1-491 Acq:15-DEC-2009 18:09:25 GC EI+ Voltage SIR 70SE

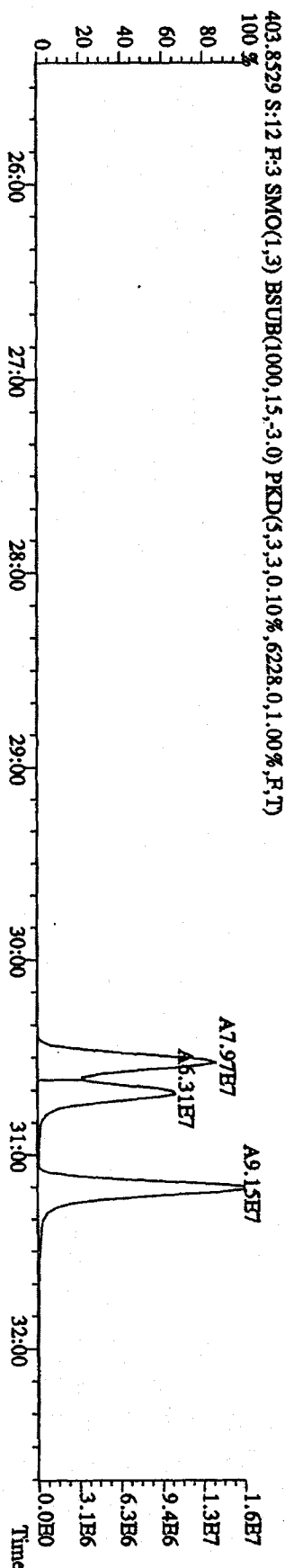
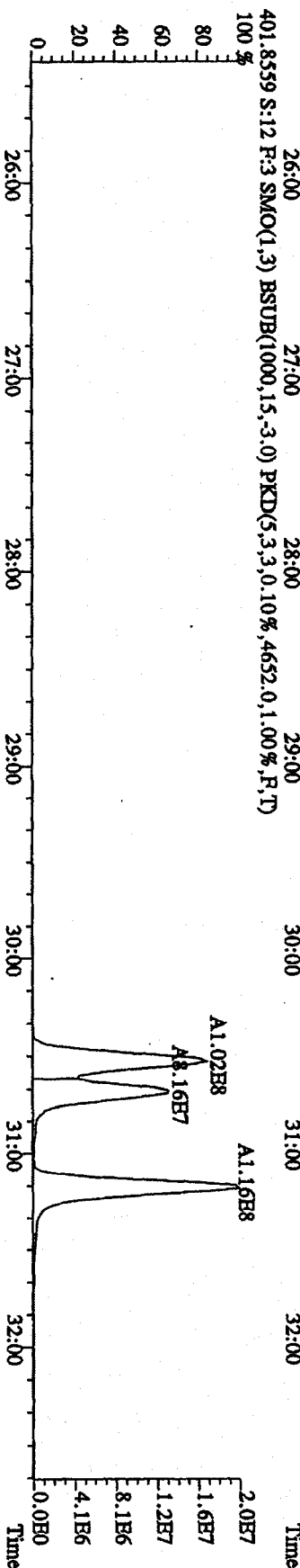
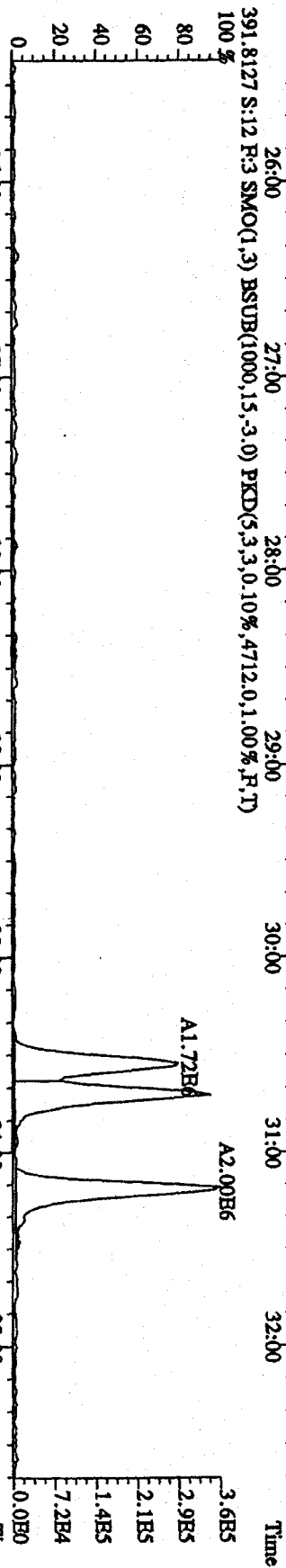
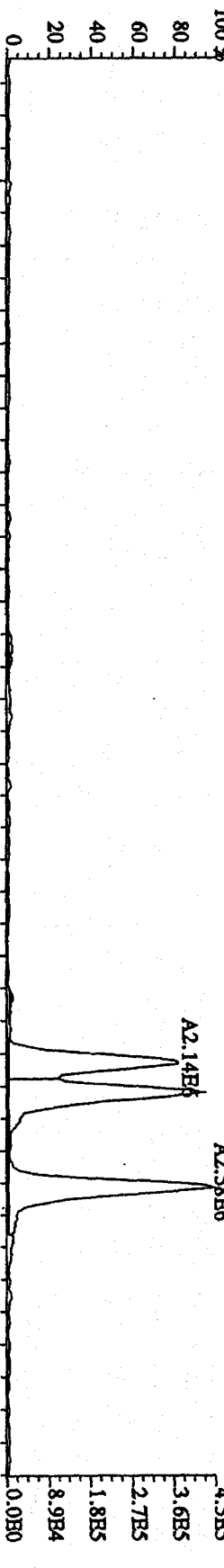
Sample#12 Text:ST1215I :CS1 09DXN236

Exp:DIOXIN

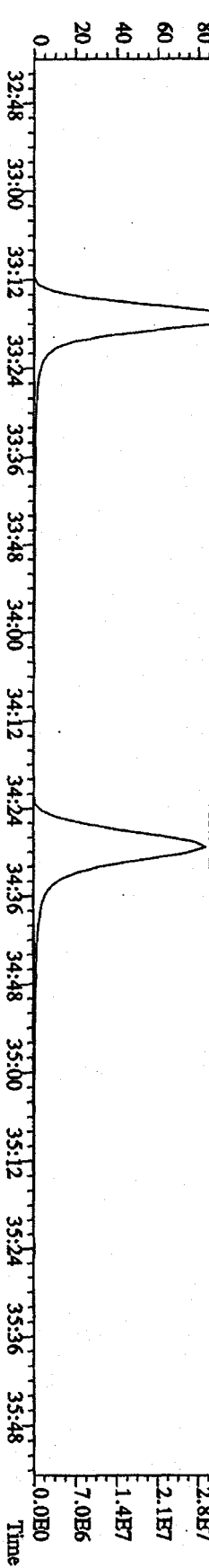
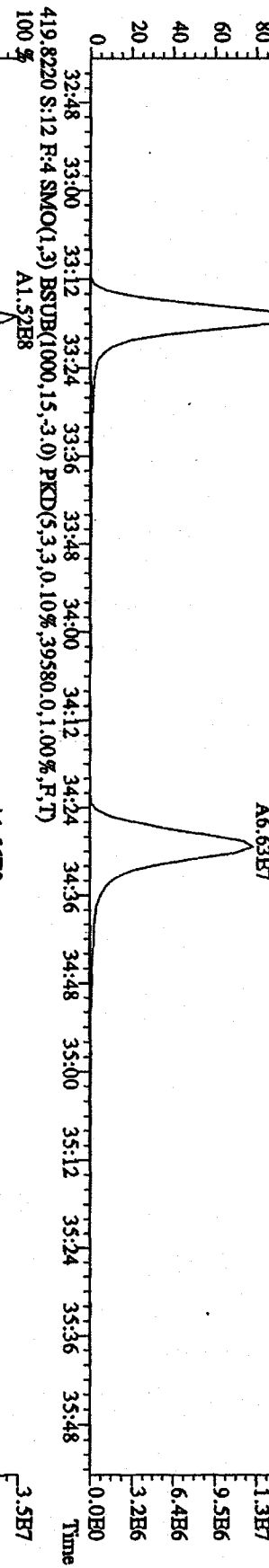
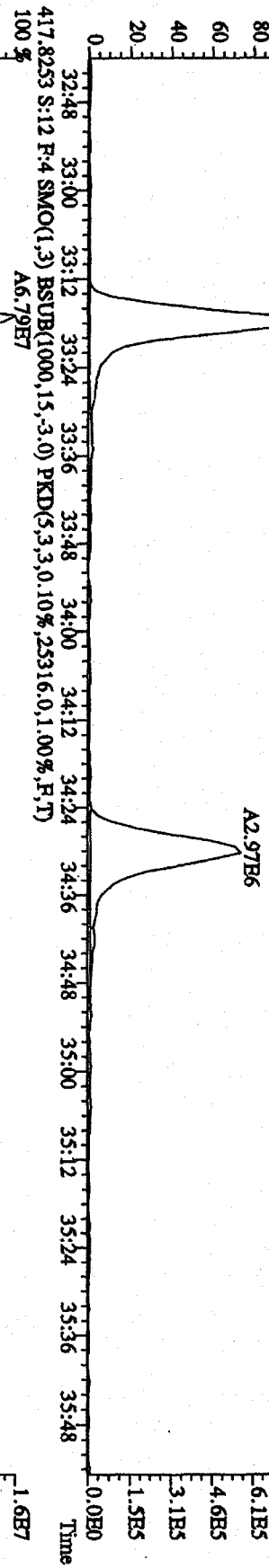
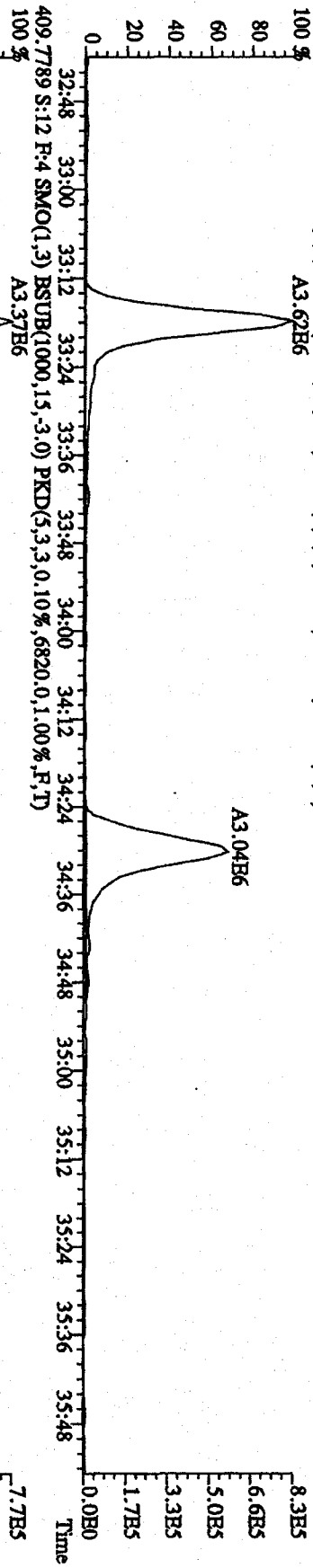
373.8208 S:12 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5664,0,1,00%,F,T)



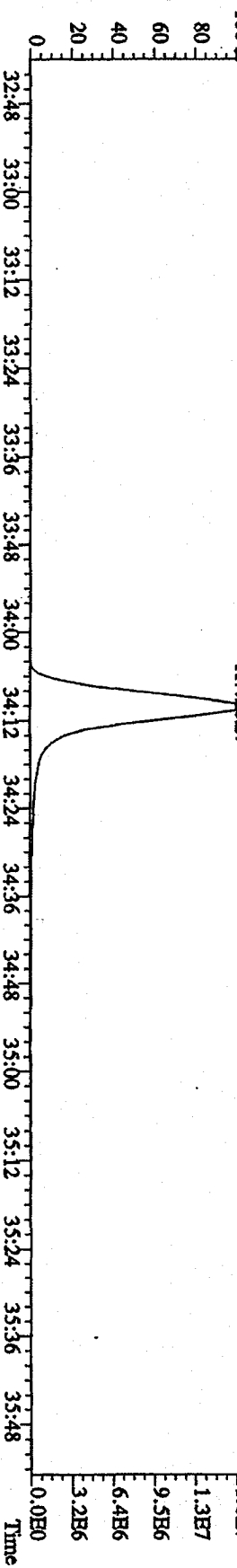
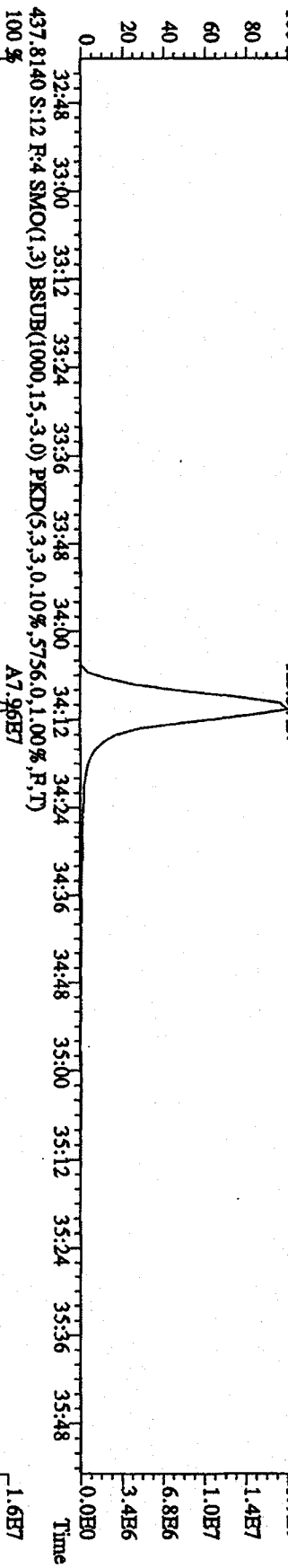
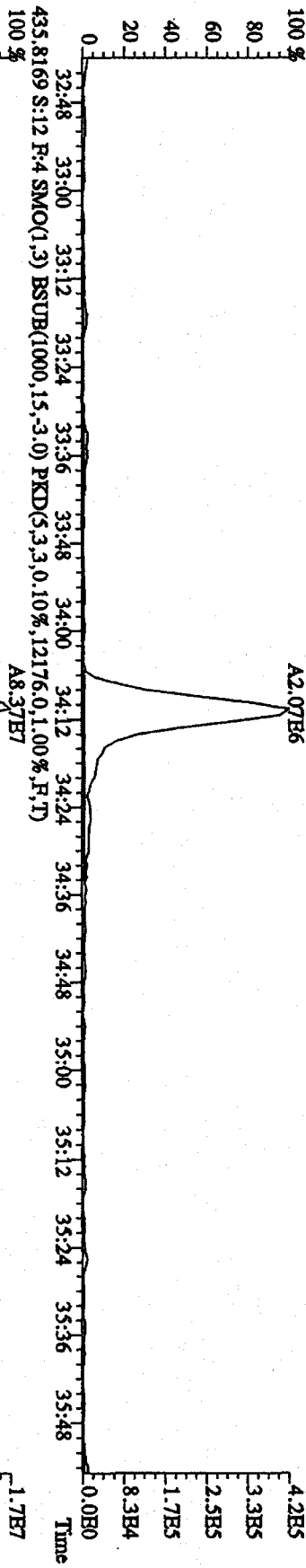
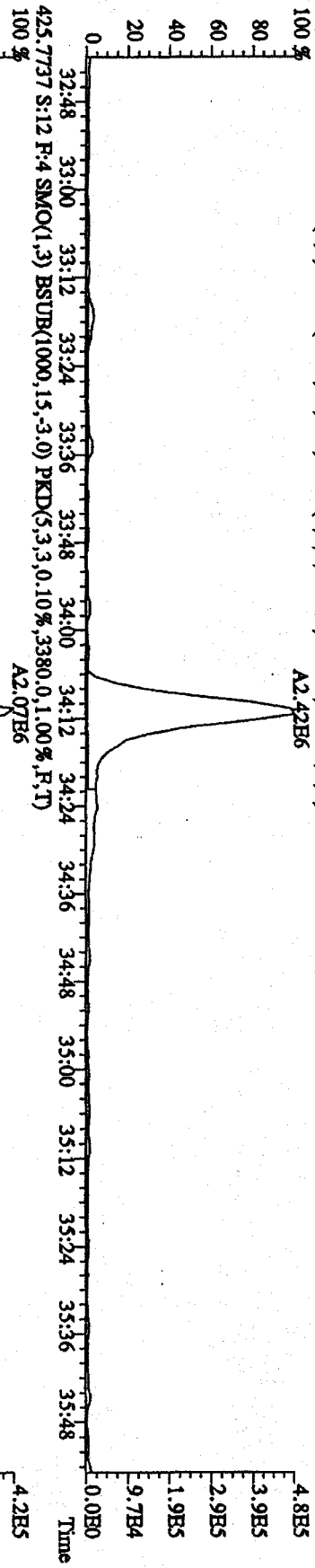
File: 15DB091D5 #1-491 Acq: 15-DB0C-2009 18:09:25 GC HI+ Voliage SIR 70SE
 Sample#12 Text: ST1215F :CSI 09DXN236 Exp: DIOXIN
 389.8157 S:12 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5476,0,1,00%,F,T)



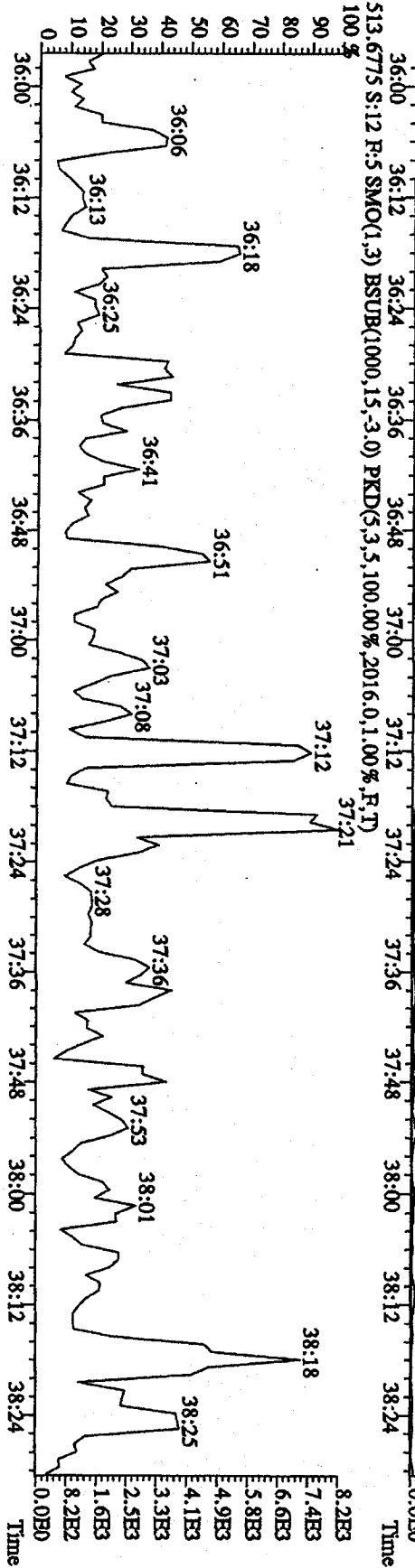
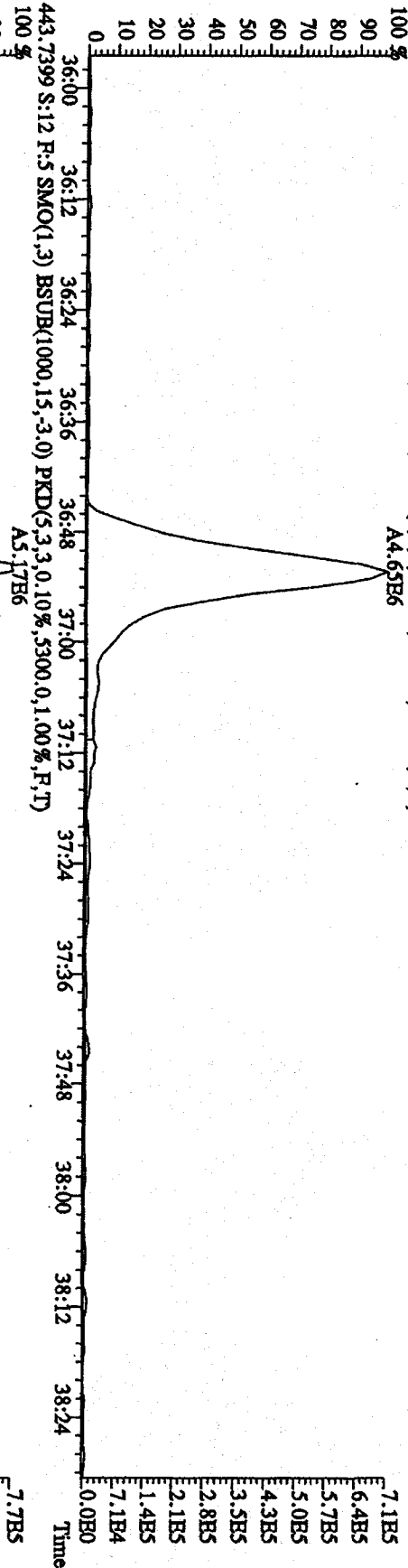
File:15DB091D5 #1-227 Acq:15-DEC-2009 18:09:25 GC EI+ Voltage SIR 70SB
 Sample#12 Text:ST12151 :CSI 09DXN236 Exp:DIOXIN
 407.7818 S:12 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5744,0.1,00%,F,T)
 100 %



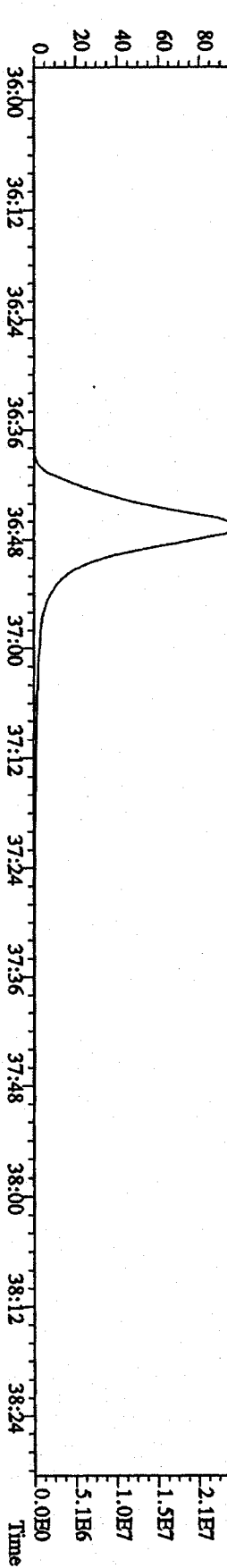
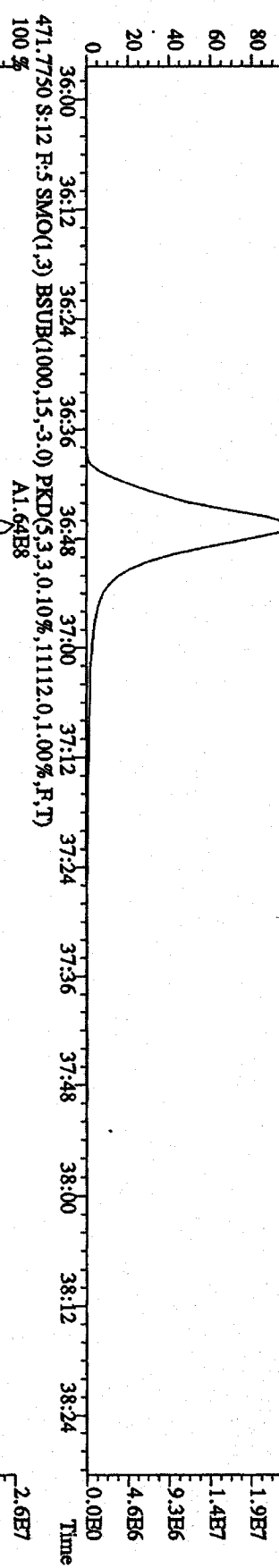
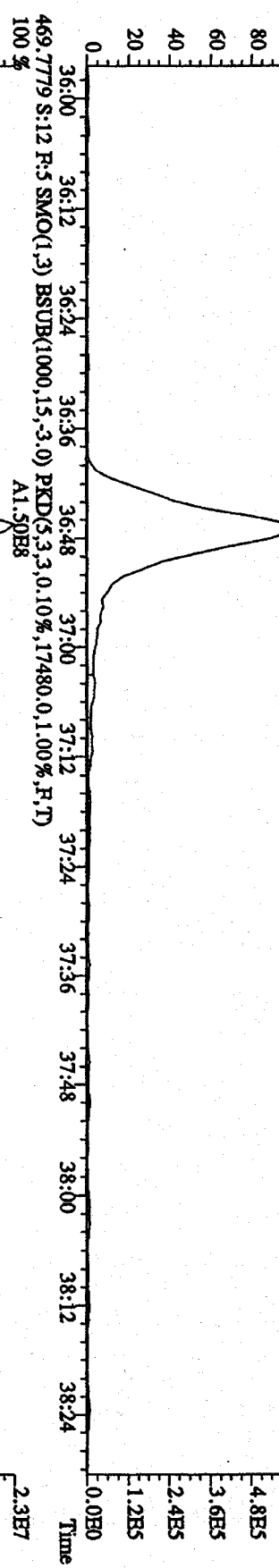
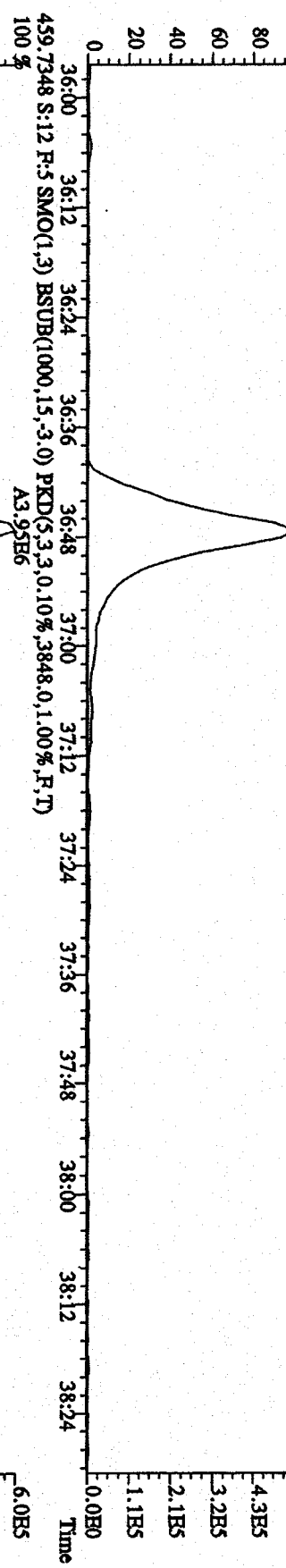
File:15DB091D5 #1-227 Acq:15-DEC-2009 18:09:25 GC HI+ Voltage SIR 70SE
 Sample#12 Text:ST12151 :CS1 09DXN736 Exp:DIOXIN
 423.7766 S:12 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5608.0,1.00%,F,T)
 100%



File:15DB091D5 #1-186 Acq:15-DEC-2009 18:09:25 GC HI+ Voltage SIR 70SE
 Sample#12 Text:ST12157 :CSI 09DXN236 Exp:DIOXIN
 441.7428 S:12 R:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.5076,0,1.00%,F,T)
 A4.65E6



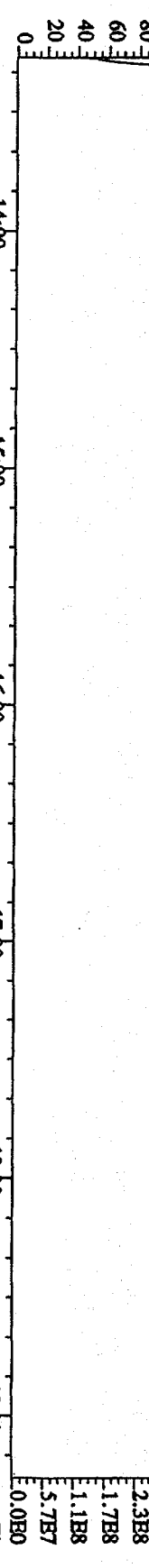
File:15DE091D5 #1-186 Acq:15-DEC-2009 18:09:25 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST1215T :CSI 09DXN236 Exp:DIOXIN
 457.7377 S:12 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2952,0,1,00%,F,T)
 100 % A3.52E6



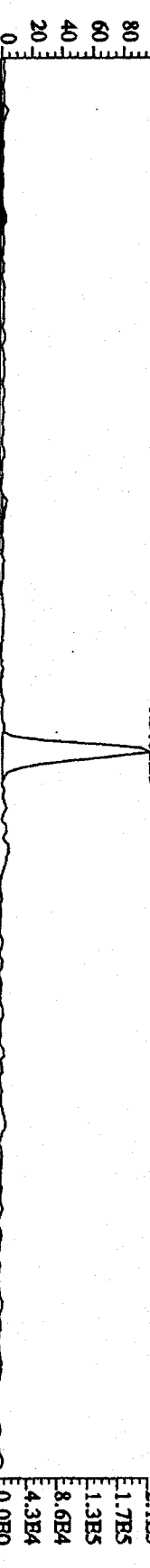
File: 15DB091D5 #1-355 Acq: 15-DEC-2009 18:09:25 GC EI+ Voltage SIR 70SB

Sample#12 Text: ST1215 : CSI 09DXN236 Exp: DIOXIN

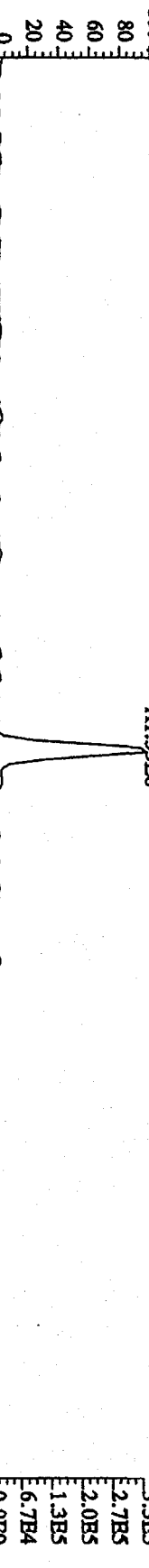
292.9825 S:12 SMO(1,3) PKD(5,3,5,100.00%,0.0,1.00%,F,T)



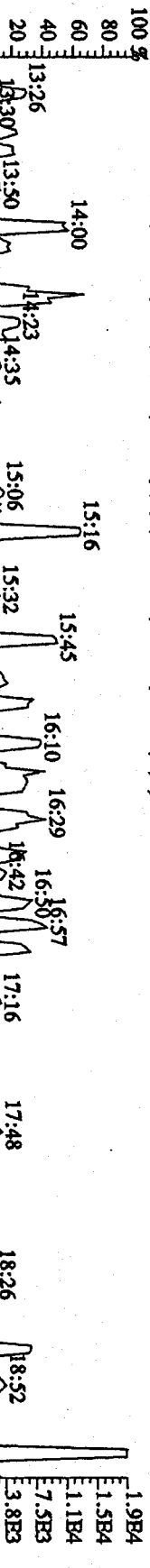
303.9016 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5808,0.1,00%,F,T)



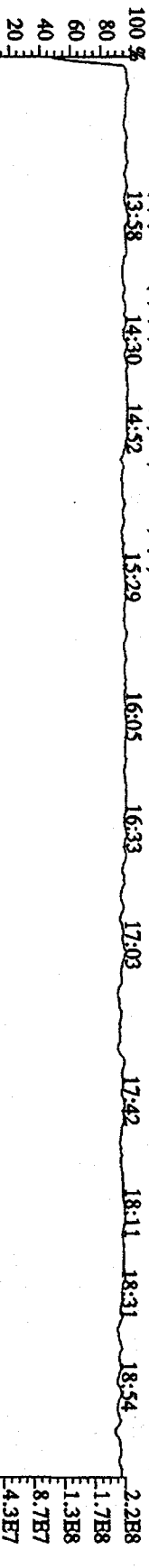
305.8987 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8772,0.1,00%,F,T)



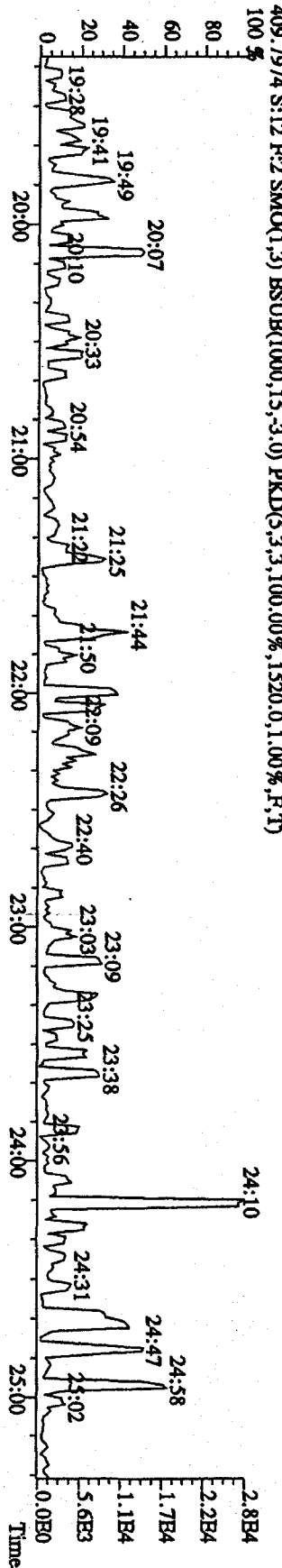
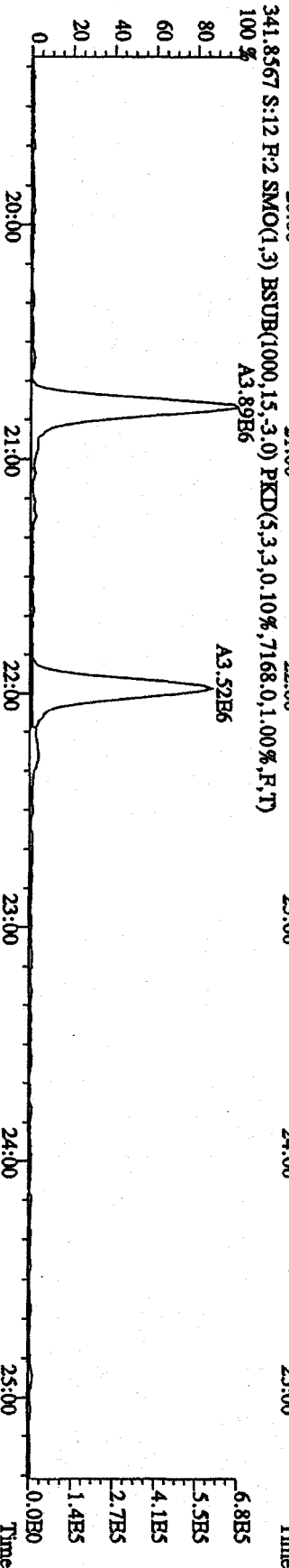
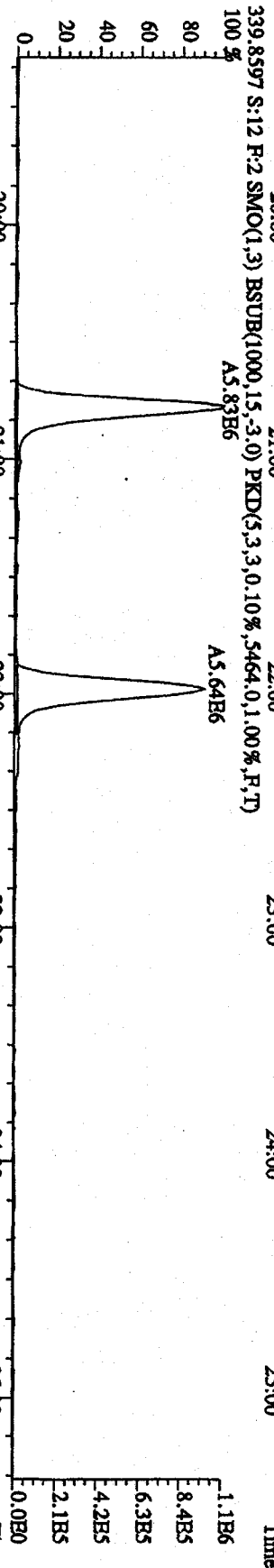
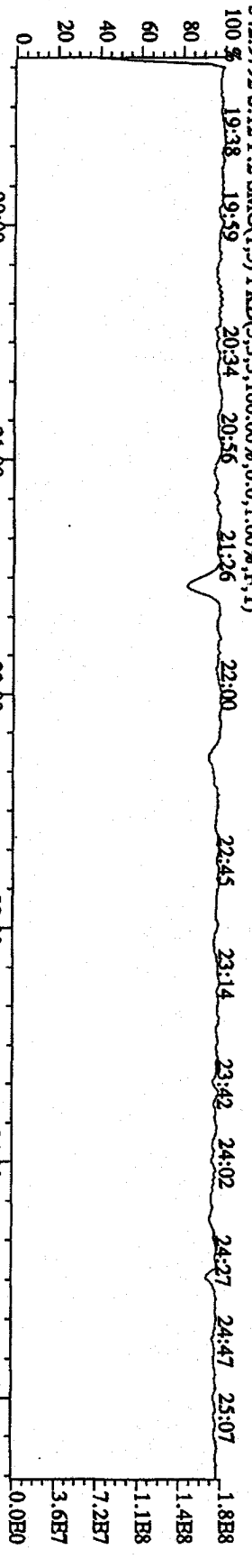
375.8364 S:12 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2292,0.1,00%,F,T)



330.9792 S:12 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



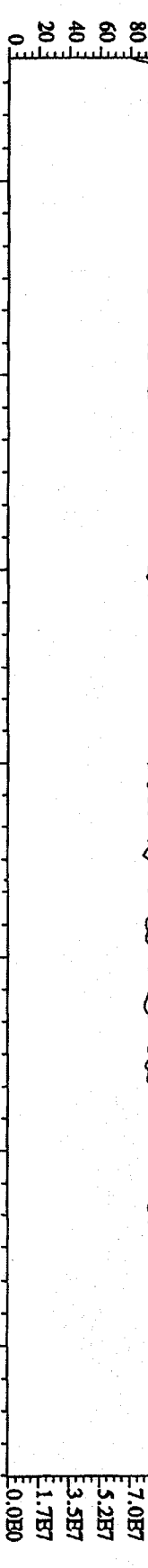
File:15DB091D5 #1-427 Acq:15-DEC-2009 18:09:25 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST12151 :CSI 09DXN236 Exp:DIOXIN



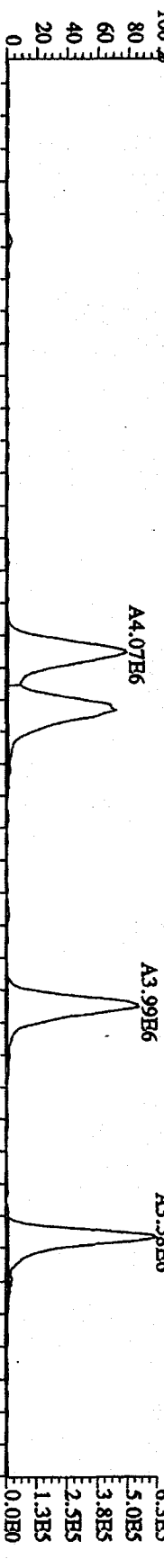
File:15DB091D5 #1-491 Acq:15-DEC-2009 18:09:25 GC EI+ Voltage SIR 70SE

Sample#12 Text:ST12151 :CSI 09DXN236 Exp:DIOXIN

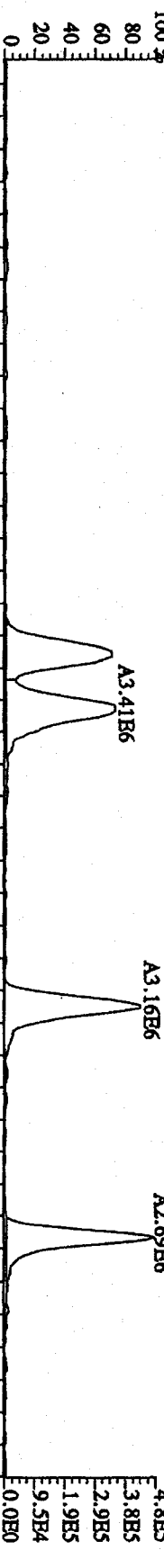
392.9760 S:12 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



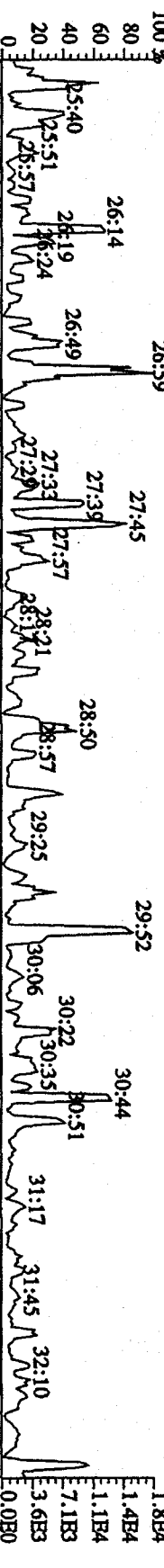
373.8208 S:12 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5664,0,1.00%,F,T)



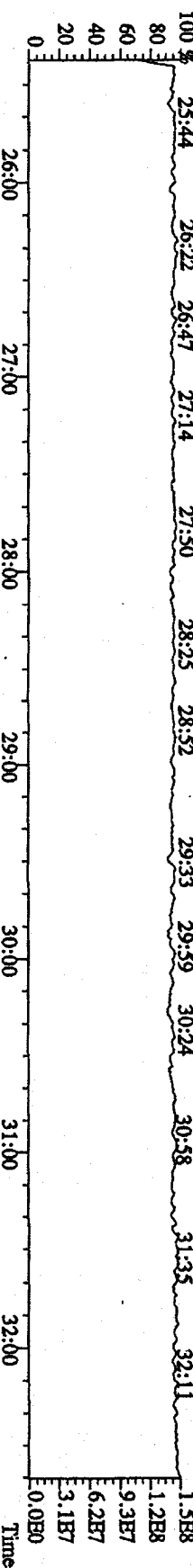
375.8178 S:12 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4828,0,1.00%,F,T)



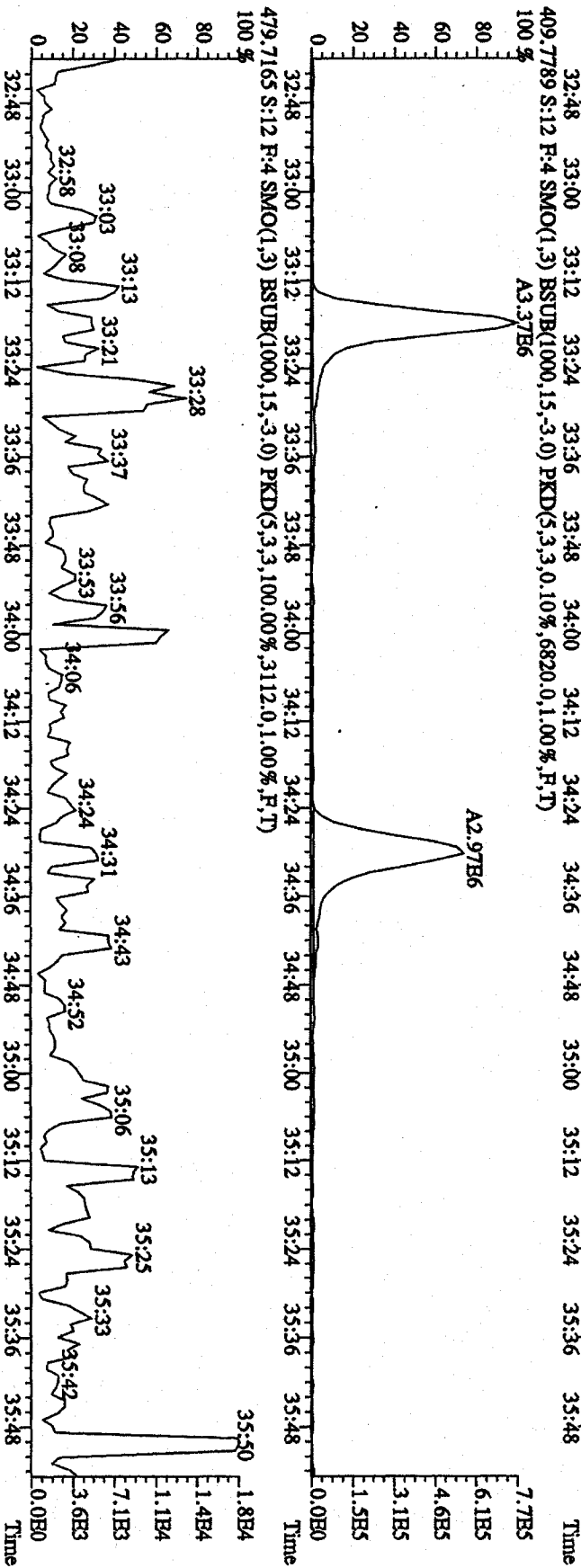
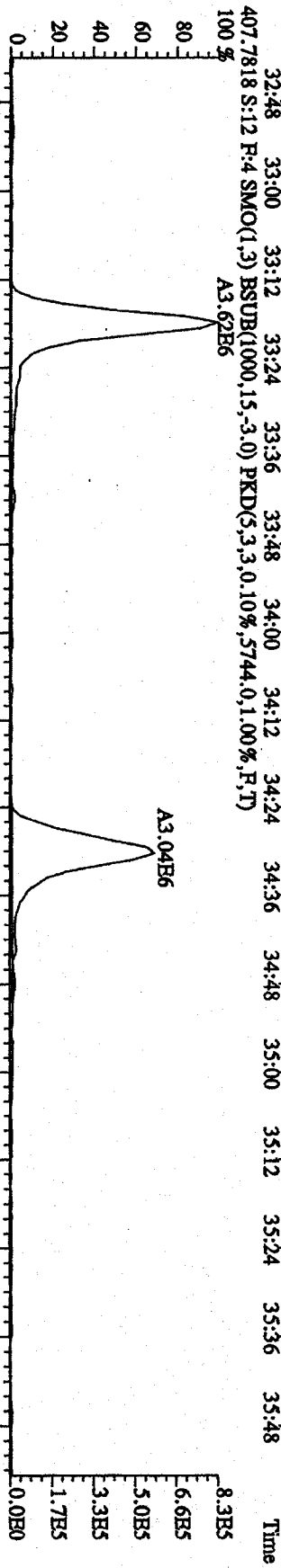
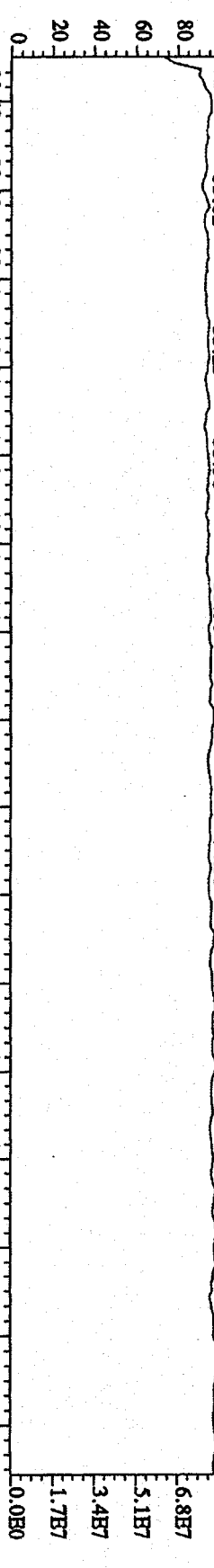
445.7555 S:12 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1788,0,1.00%,F,T)



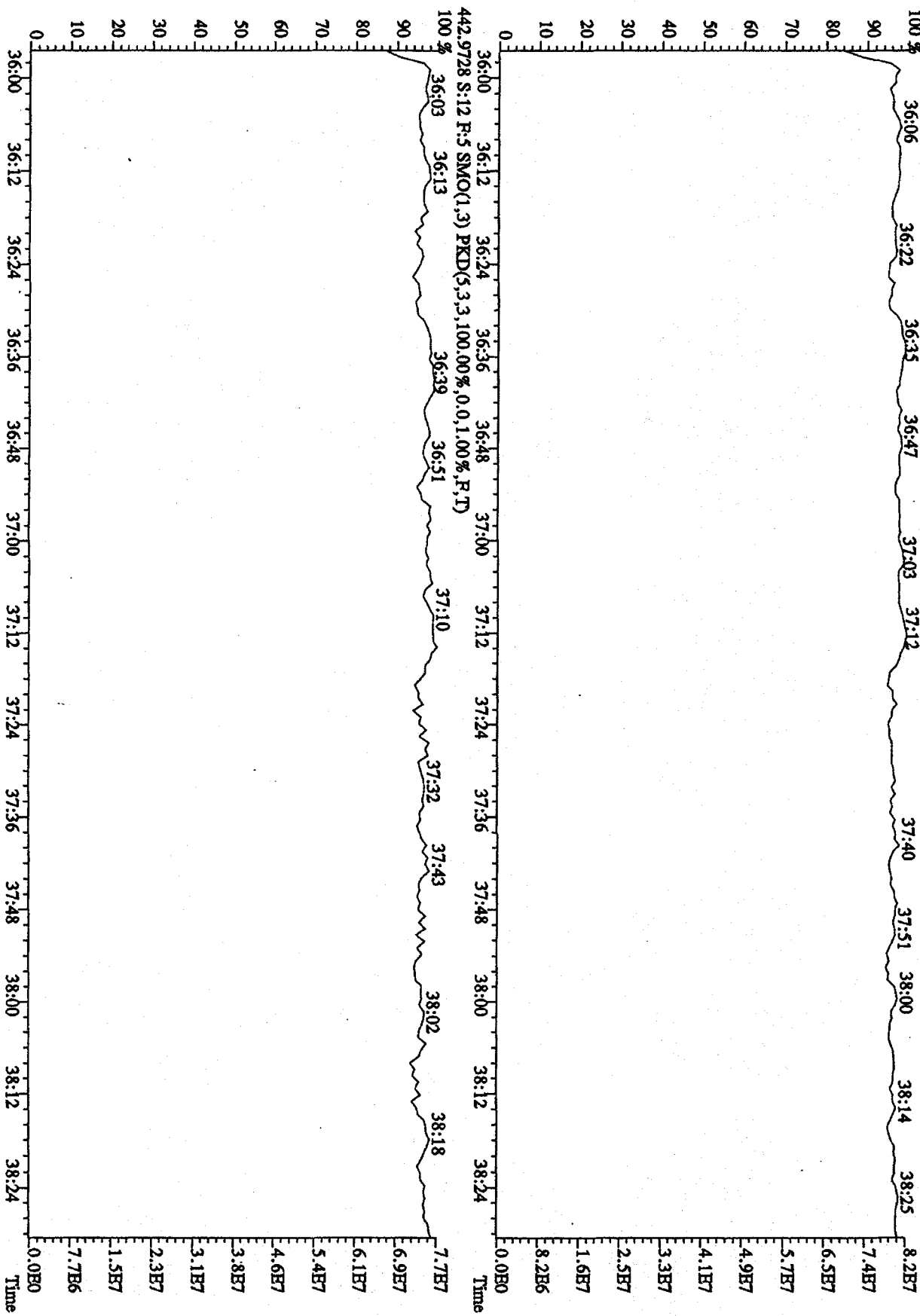
380.9760 S:12 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



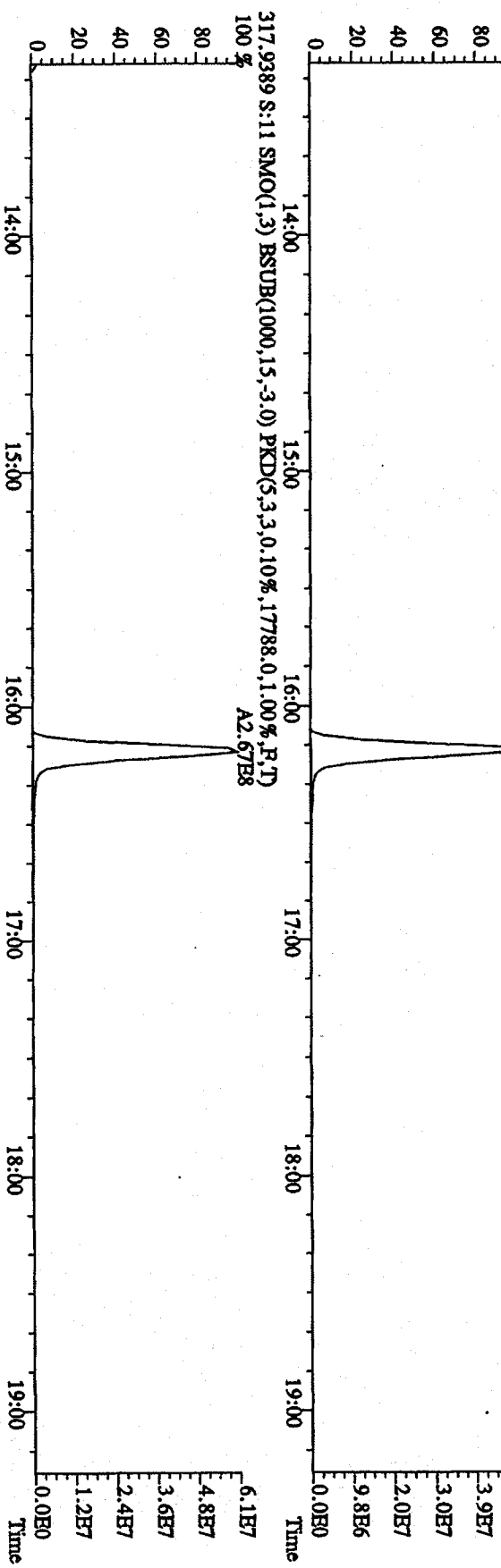
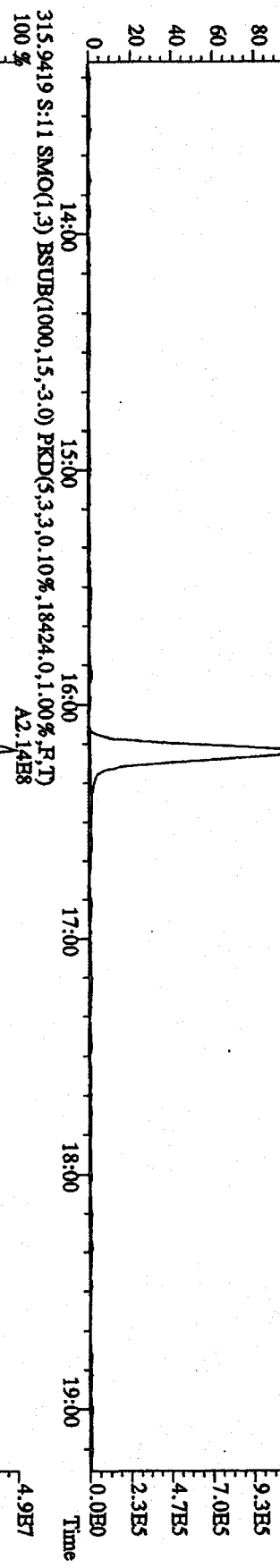
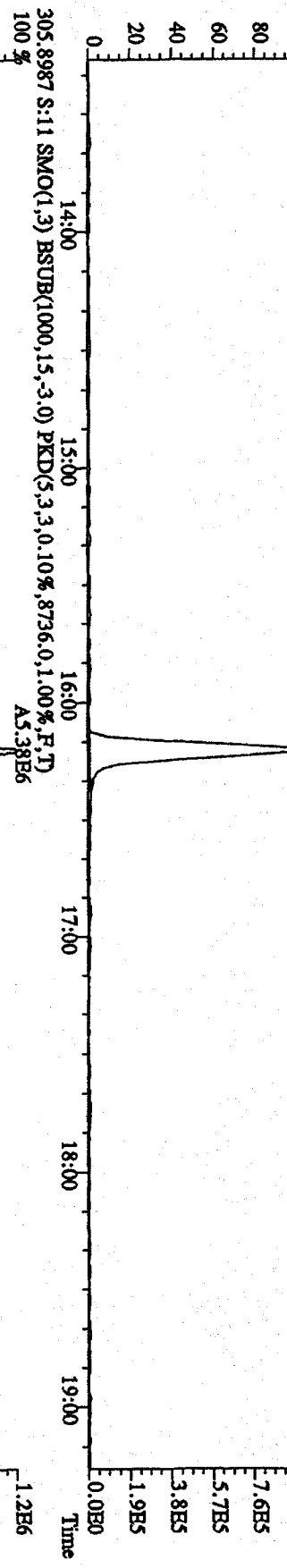
File:15DB091D5 #1-227 Acq:15-DEC-2009 18:09:25 GC EI+ Voltage SIR 70SE
 Sample#12 Text:ST12151 :CSI 09DXN236 Exp:DIOXIN
 430.9728 S:12 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 32:48 33:02 33:23 33:38 33:58 34:22 34:33 34:59 35:12 35:22 35:38



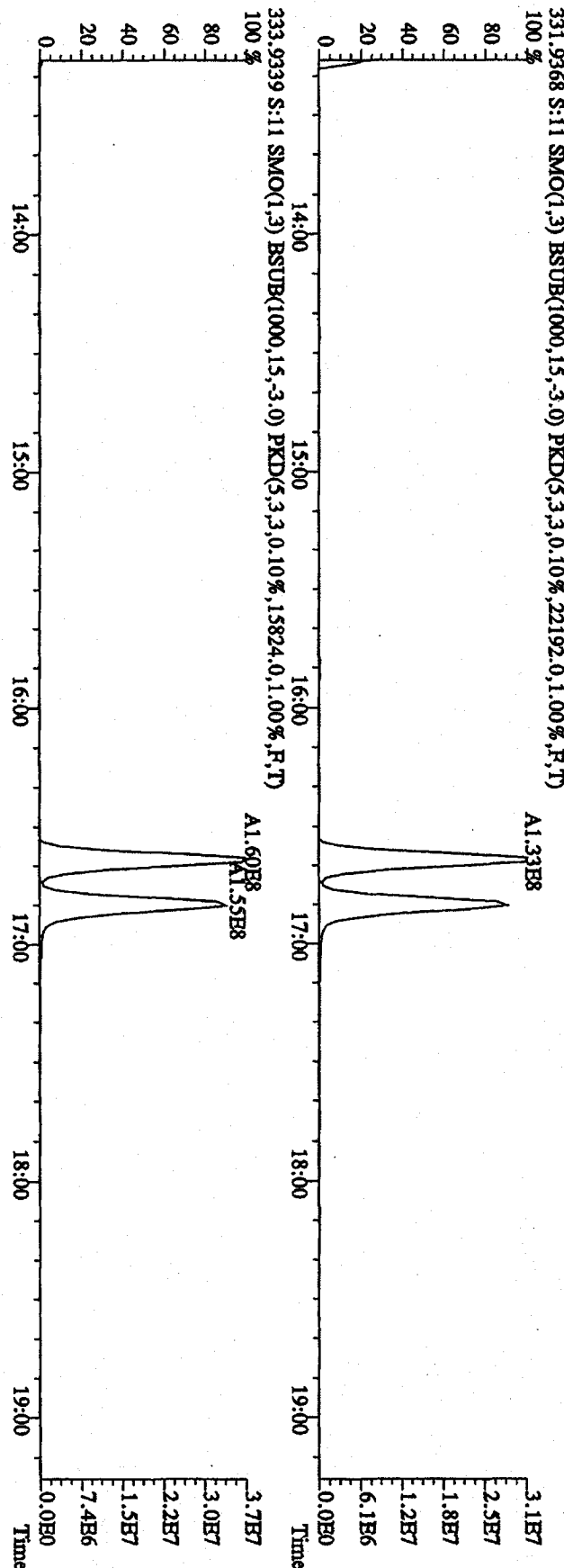
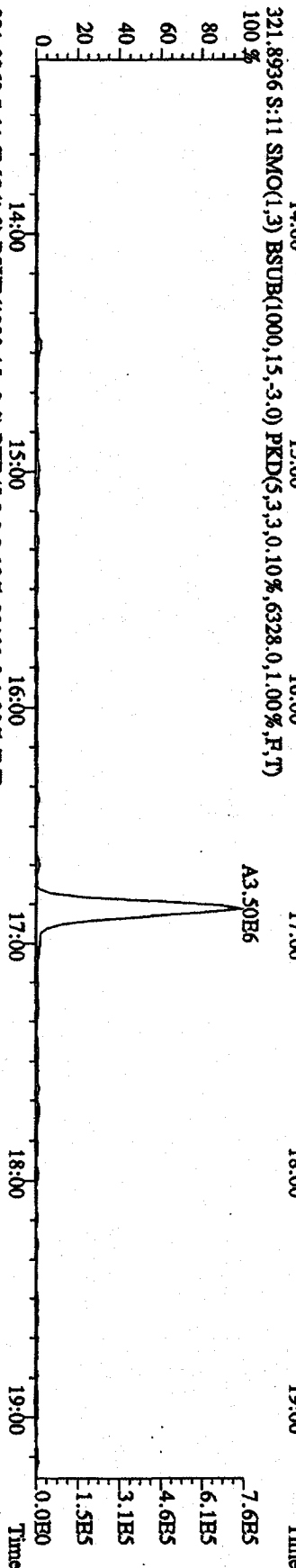
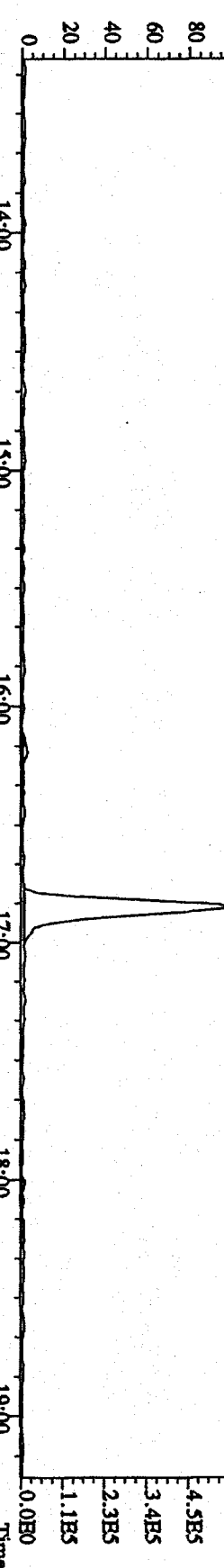
File: 15DB091D5 #1-186 Acq: 15-DEC-2009 18:09:25 GC: EI+ Voltage: SIR 70SB
 Sample#12 Text: ST1215J : CSI 09DXNZ36 Exp: DIOXIN
 454 9728 S: 12 R: 5 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



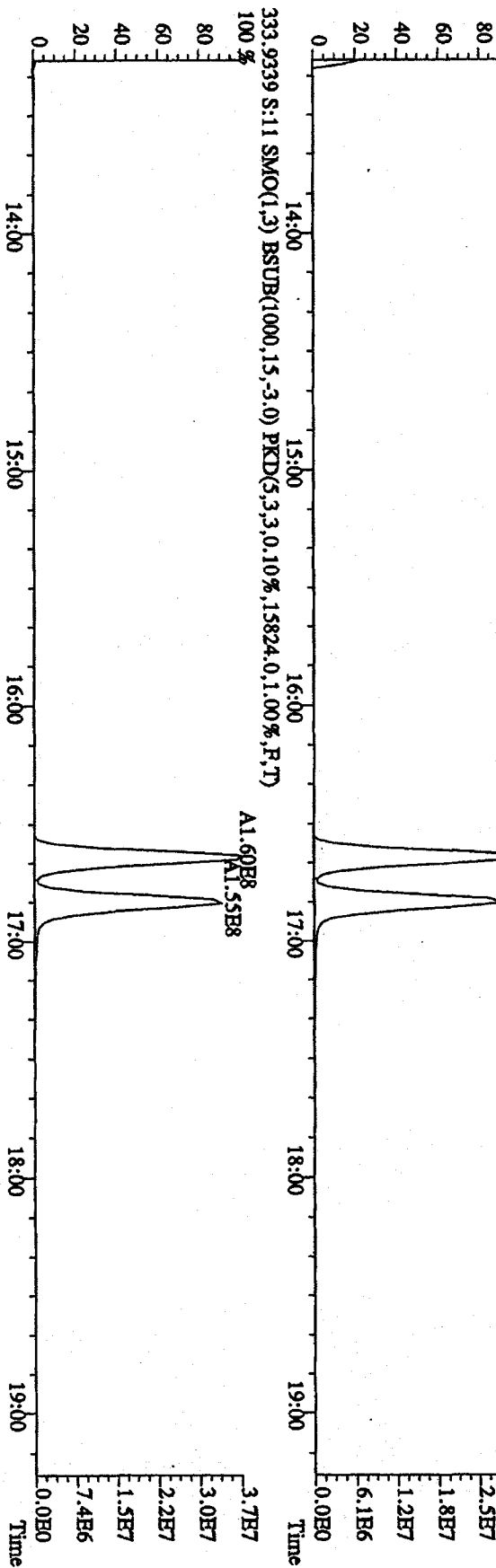
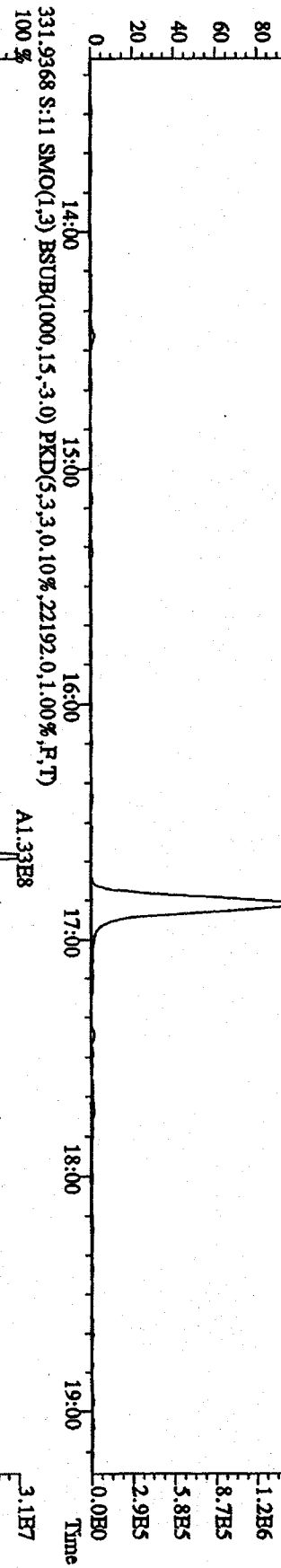
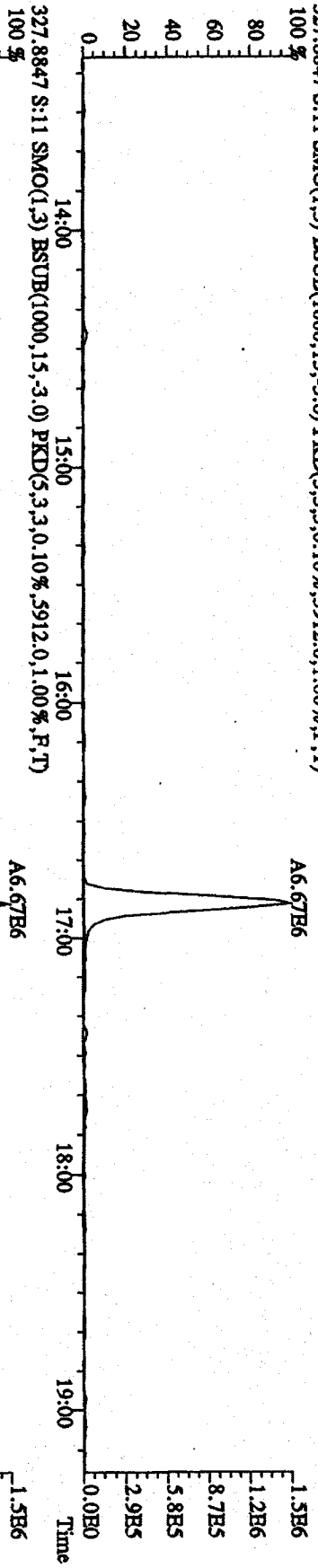
File: 15DEC091D5 #1-355 Acq:15-DEC-2009 17:27:35 GC EI+ Volage SIR 70SE
 Sample#11 Text:ST12151 :CS2 09DXNZ37 Exp:DIOXIN
 303.9016 S:11 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5864,0,1,00%,F,T)
 100% A4.23B6



File:15DE091D5 #1-355 Acq:15-DEC-2009 17:27:35 GC HI+ Voltage SIR 70SB
 Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN
 319.8965 S:11 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7232,0,1,00%,F,T)



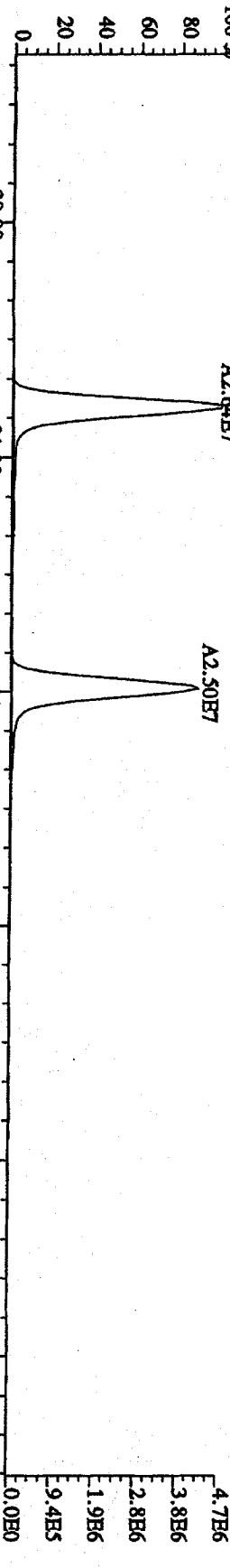
File:15DE091D5 #1-355 Acq:15-DHC-2009 17:27:35 GC HI + Voltage SIR 70SB
 Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN
 327.8847 S:11 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5912,0,1,00%,F,T)



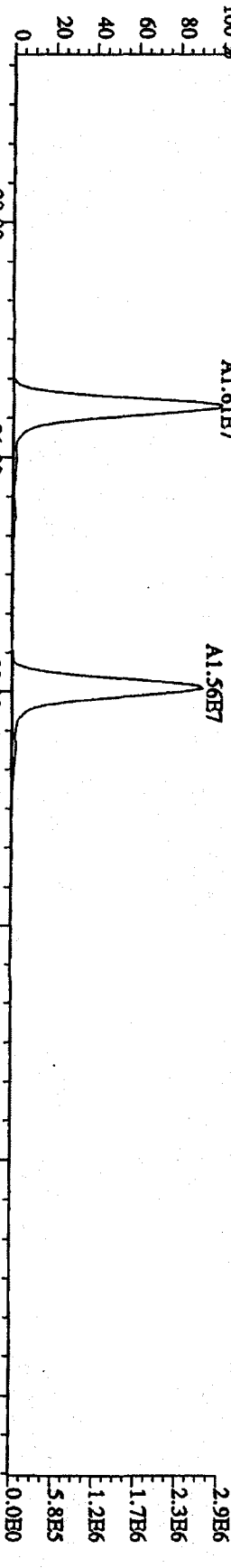
File:1SDB091D5 #1-427 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SE

Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN

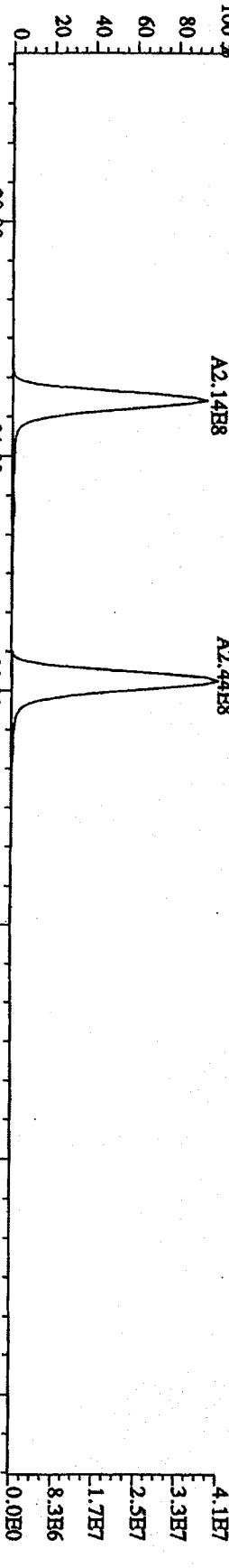
339.8597 S:11 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6952,0.1,00%,F,T)



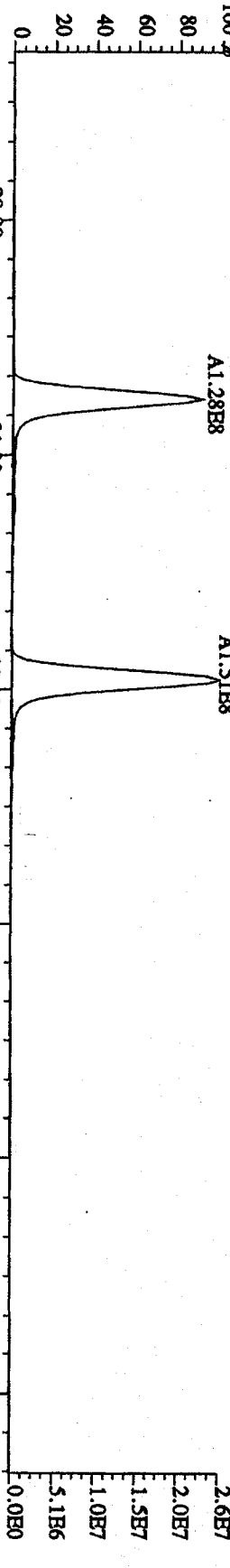
341.8567 S:11 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7972,0.1,00%,F,T)



351.9000 S:11 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16464,0.1,00%,F,T)

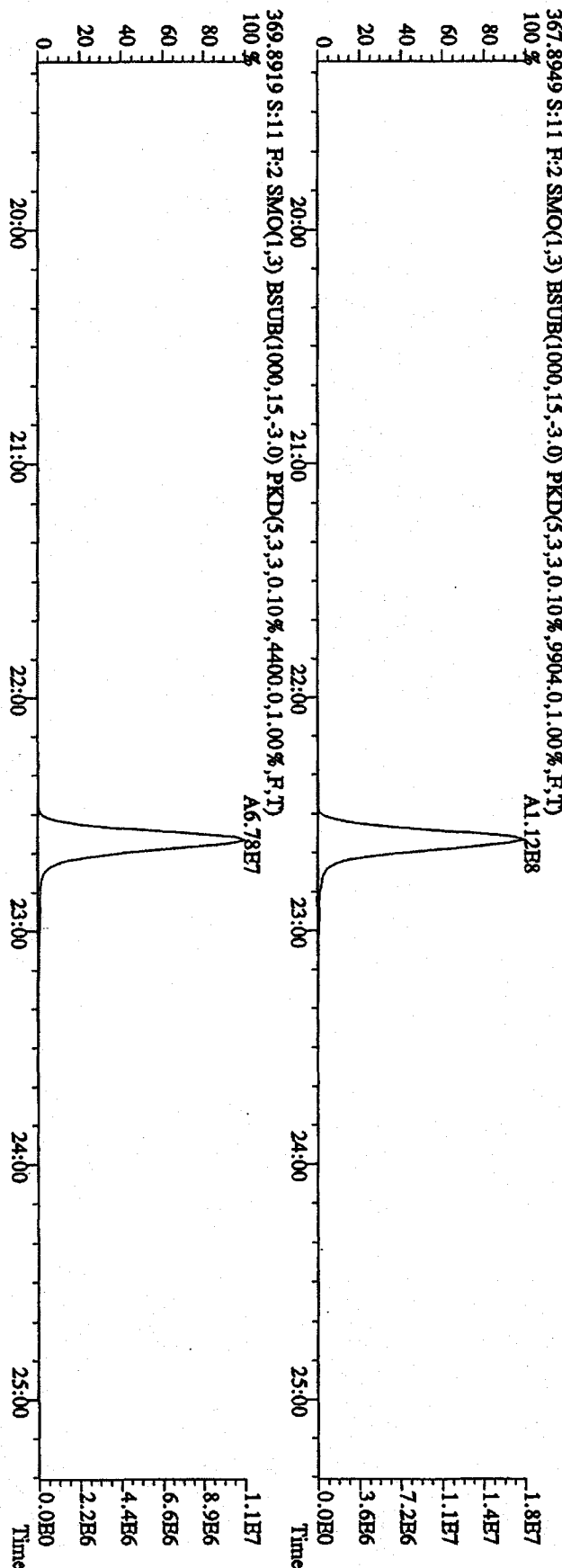
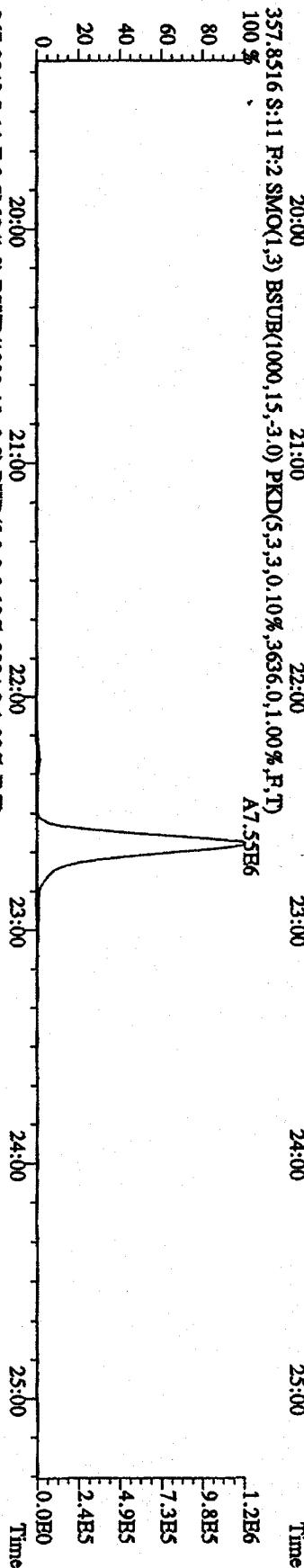
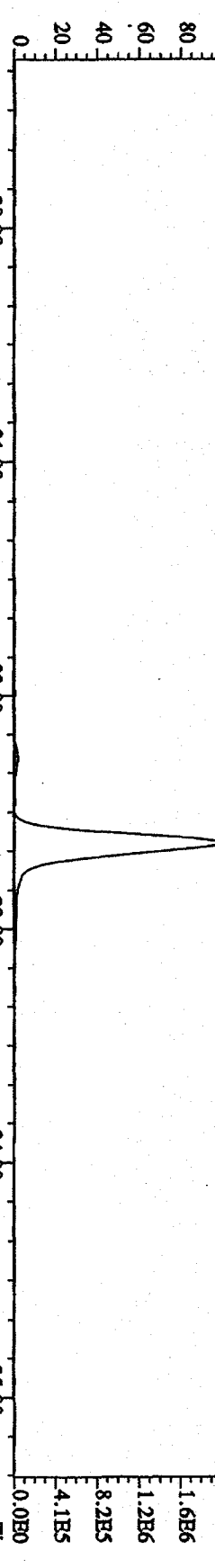


353.8970 S:11 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6428,0.1,00%,F,T)

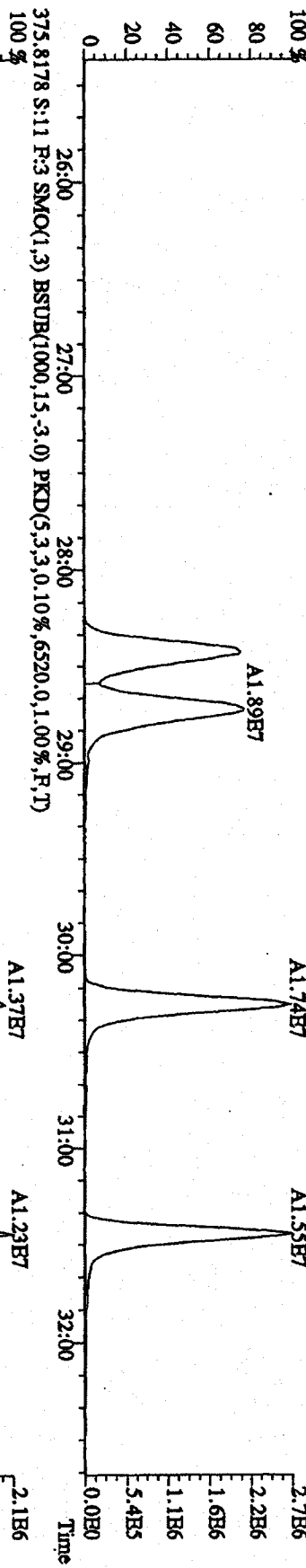


File:15DEB091D5 #1-427 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SE

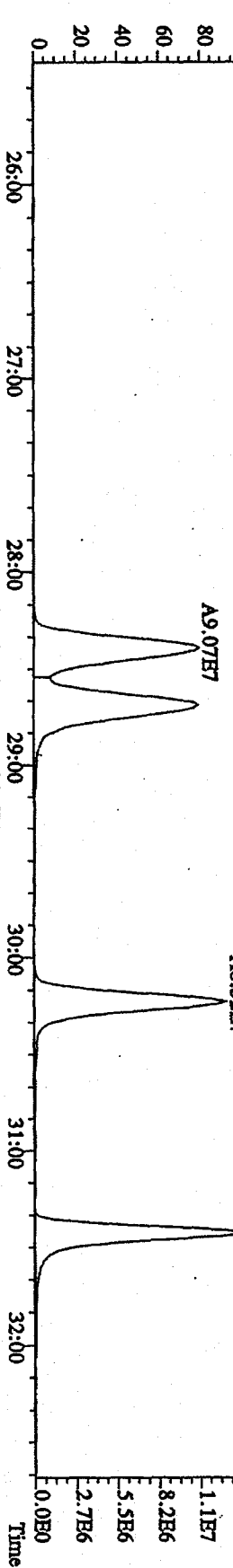
Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN



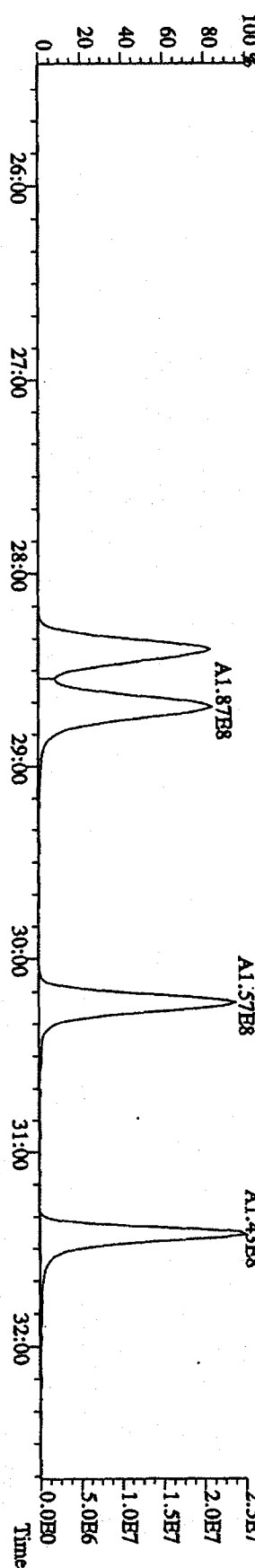
File:15DE091D5 #1-492 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SB
 Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN
 373.8208 S:11 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7284,0,1,00%,F,T)
 100 %



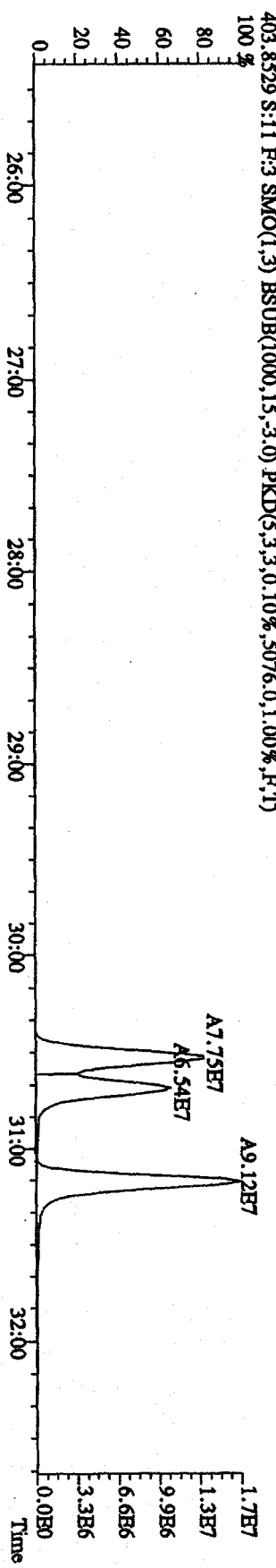
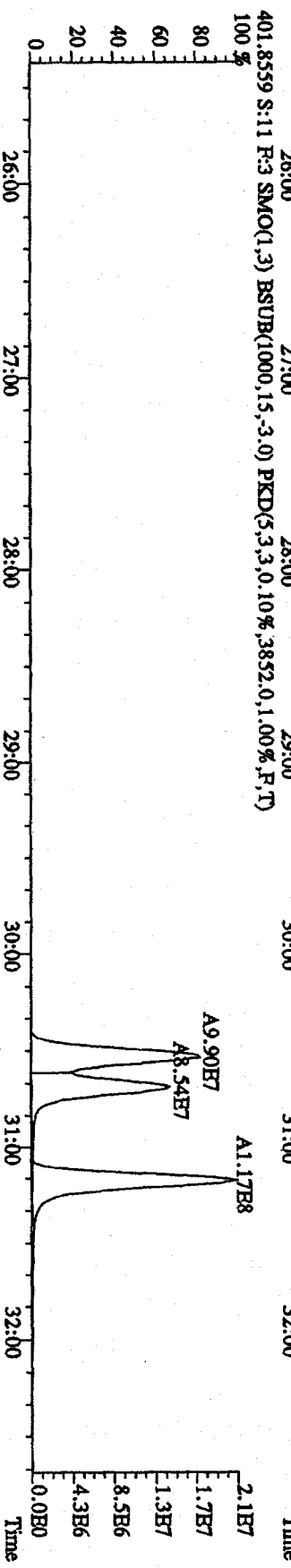
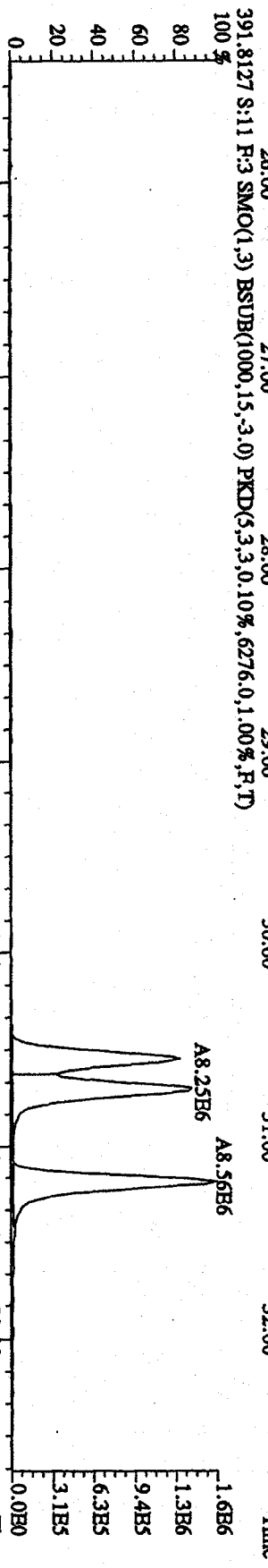
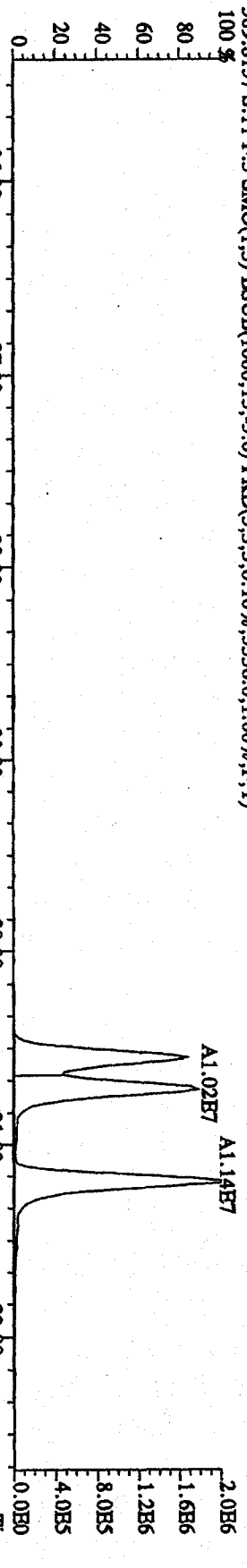
383.8639 S:11 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,17564,0,1,00%,F,T)
 100 %



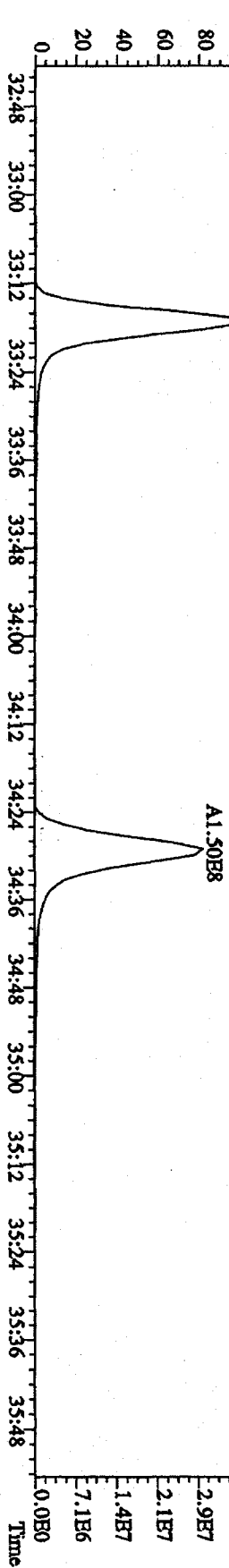
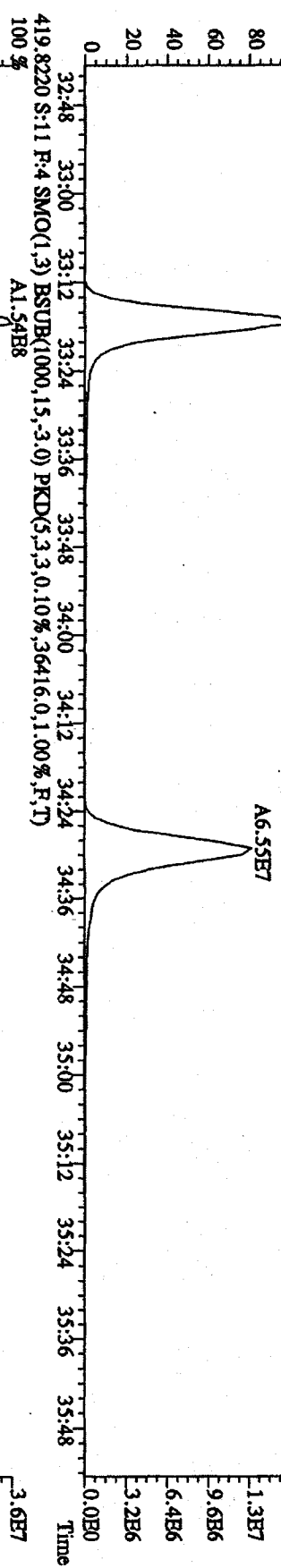
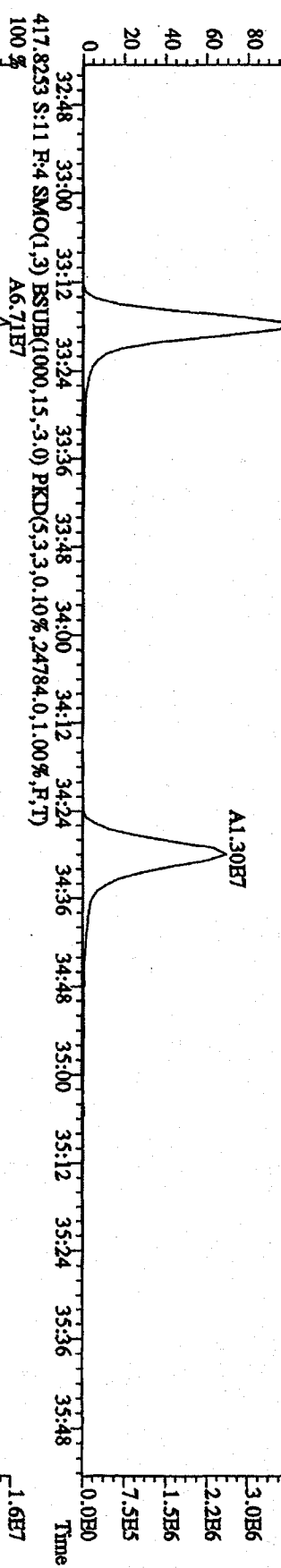
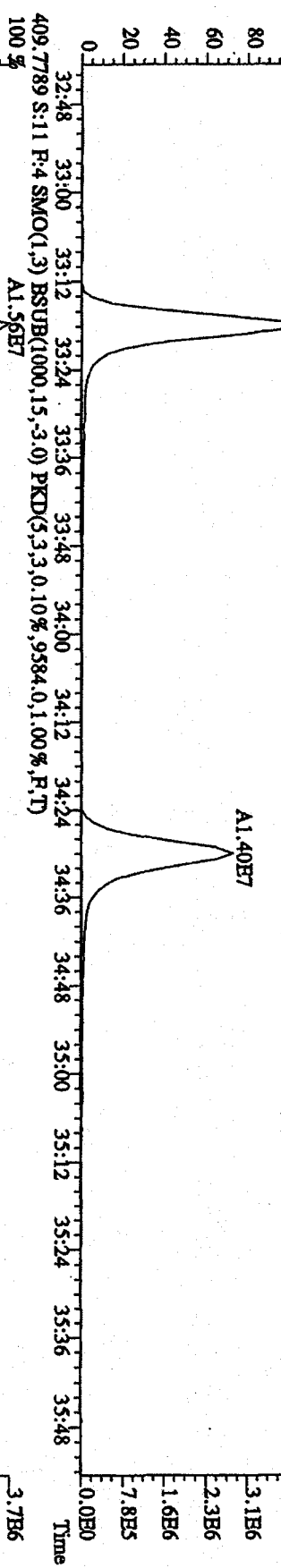
385.8610 S:11 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,22384,0,1,00%,F,T)
 100 %



File:15DB091D5 #1-492 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SE
 Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN
 389.8157 S:11 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5536,0,1,00%,F,T)



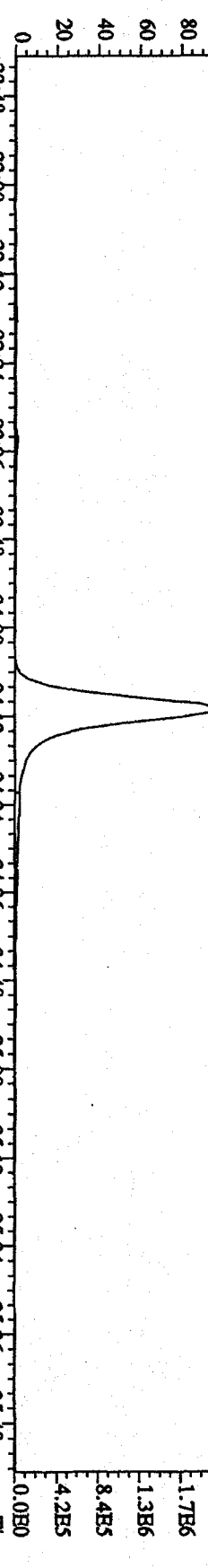
File:15DB091D5 #1-226 Acq:15-DEC-2009 17:27:35 GC BI+ Voltage SIR 70SE
 Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN
 407.7818 S:11 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9492,0,1,00%,F,T)
 100 %



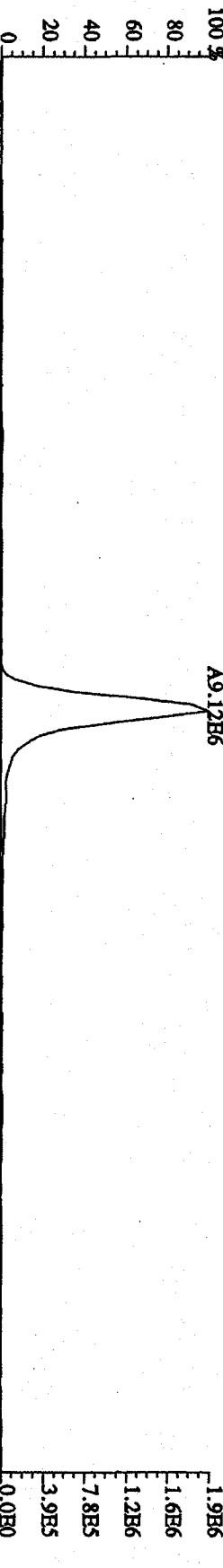
File:15DE091D5 #1-226 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SB

Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN

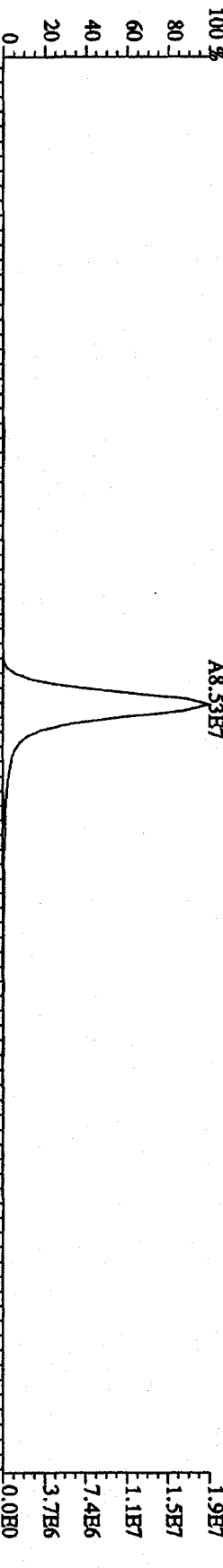
423.7766 S:11 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5888.0,1.00%,F,T)



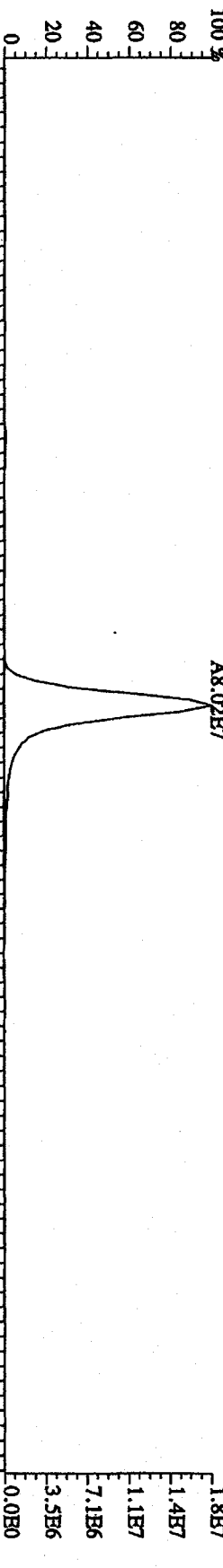
425.7737 S:11 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4288.0,1.00%,F,T)



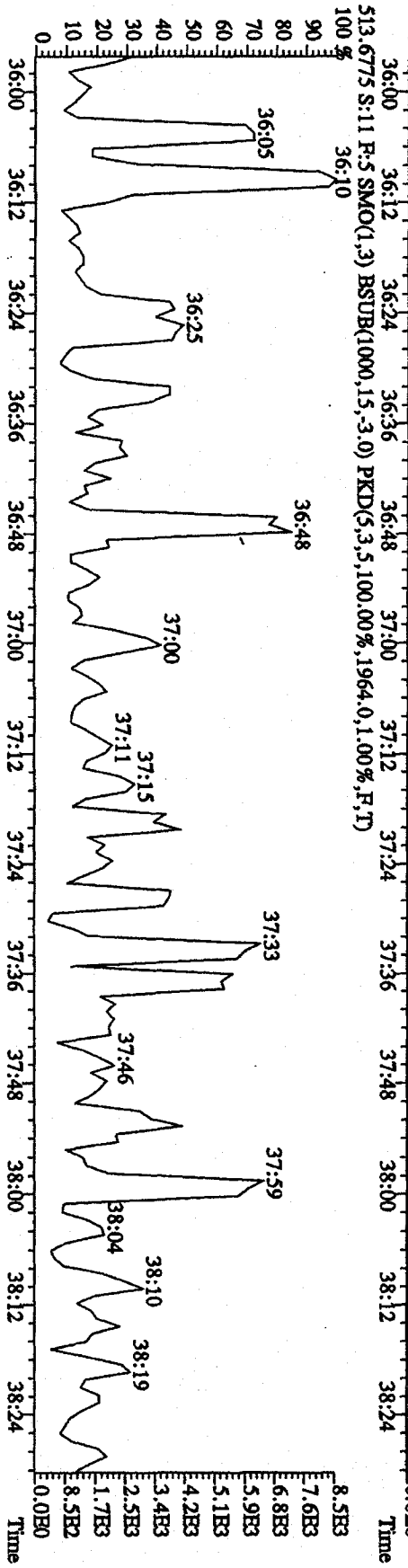
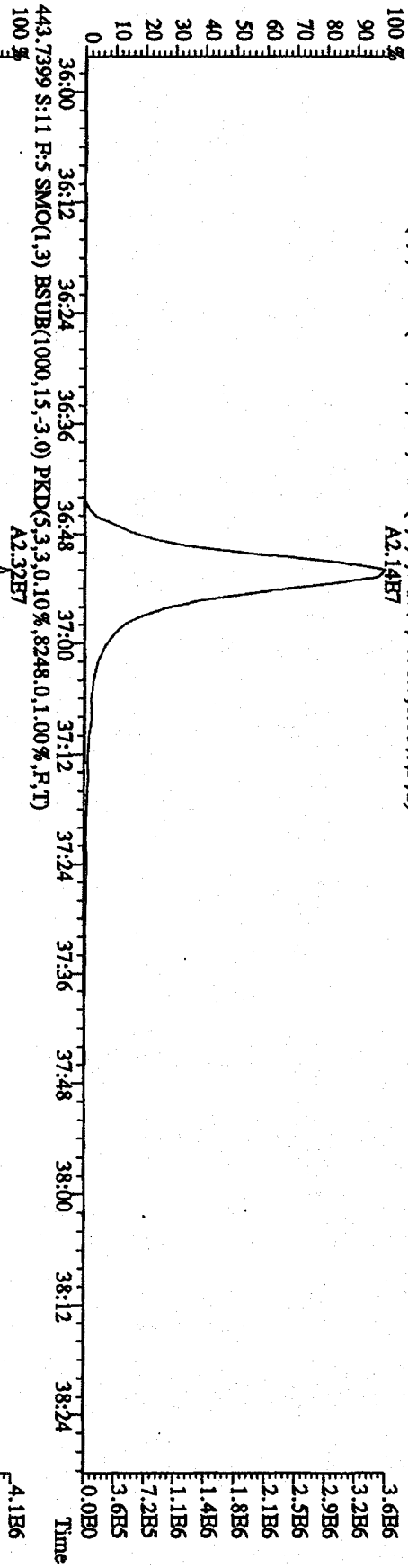
435.8169 S:11 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14700.0,1.00%,F,T)



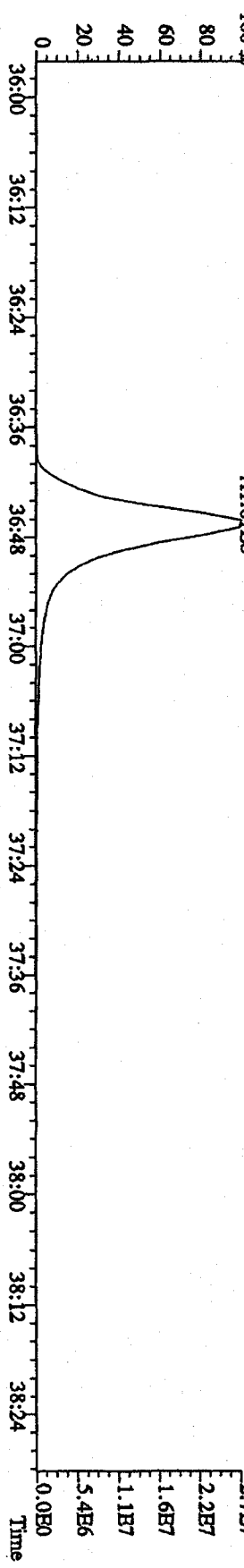
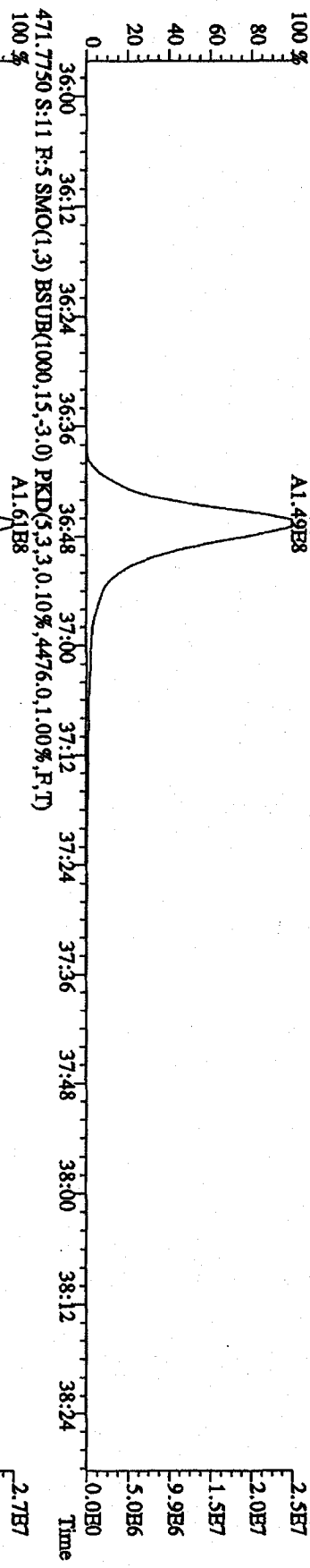
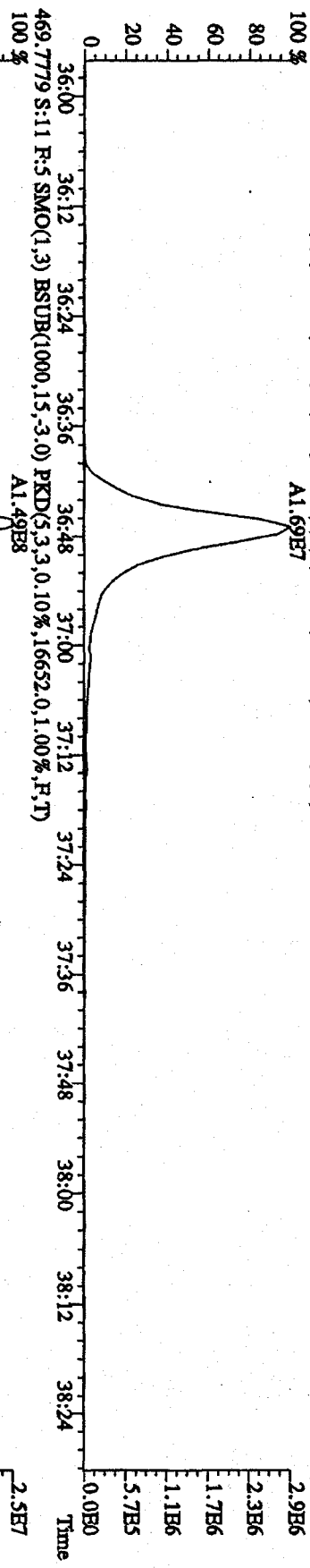
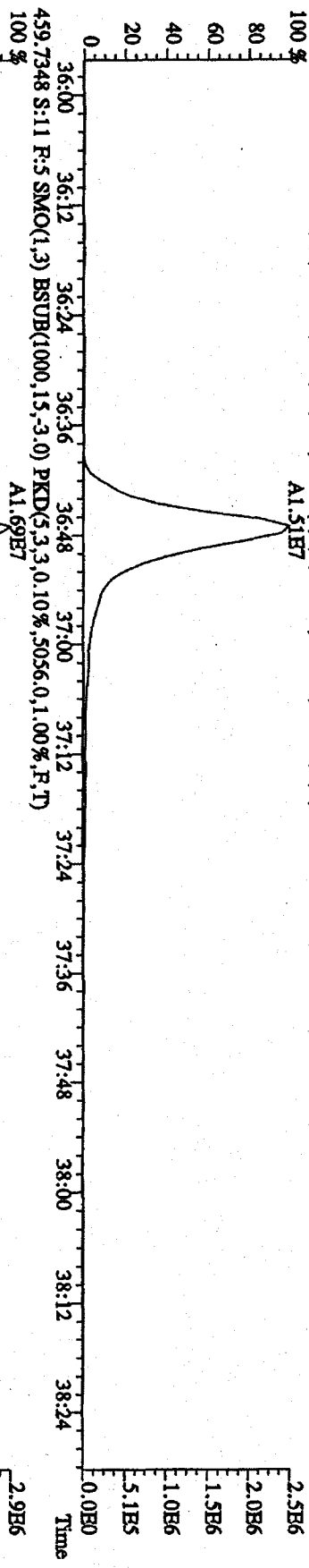
437.8140 S:11 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9276.0,1.00%,F,T)



File:15DBE091D5 #1-186 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SE
 Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN
 441.7428 S:11 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9056,0,1,00%,F,T)
 100%



File: 15DDE091D5 #1-186 Acq: 15-DEC-2009 17:27:35 GC HI + Voltage SIR 70SB
 Sample#11 Text: ST12151 :CS2 09DXKN237 Exp: DIOXIN
 457.7377 S:11 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3.0,10%,6248.0,1.00%,F,T)
 100 % A1.51E7

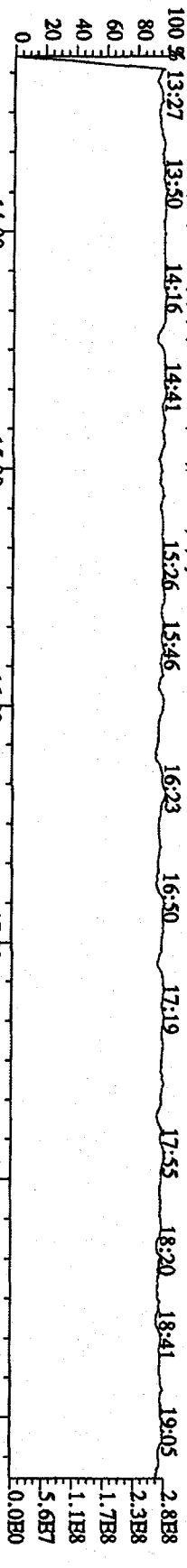


File:15DEB091D5 #1-355 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SE

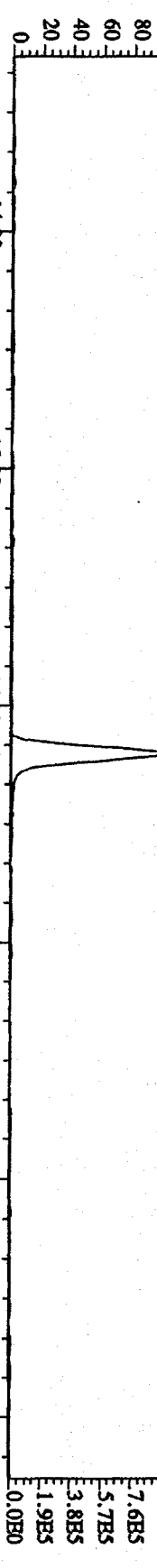
Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN

292.9825 S:11 SMO(1,3) PKD(3,3,5,100.00%,0.0,1.00%,F,T)

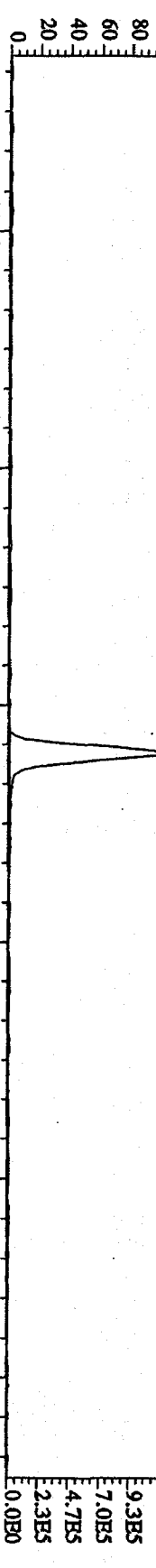
Exp:DIOXIN



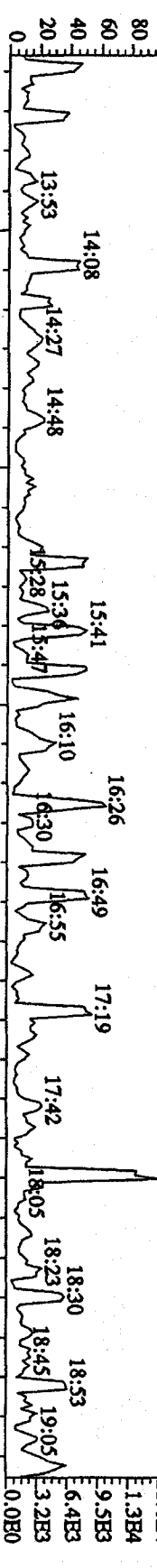
303.9016 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5864,0.1,0.0%,F,T)



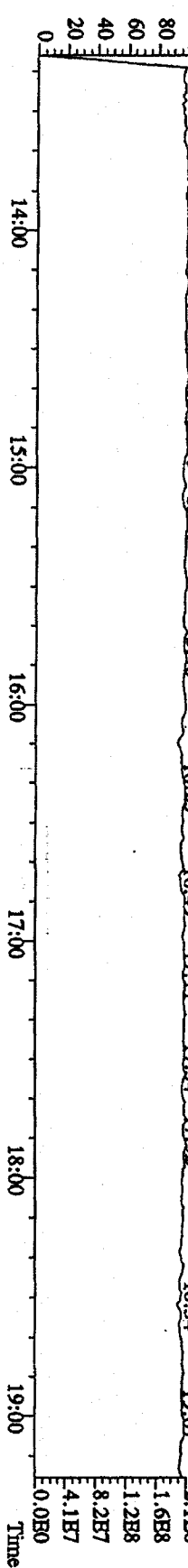
305.8987 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8736,0.1,0.0%,F,T)



375.8364 S:11 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2280,0.1,0.0%,F,T)



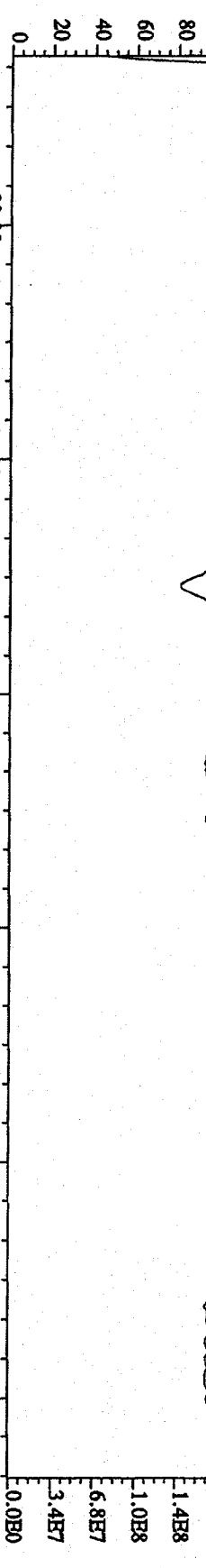
330.9792 S:11 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



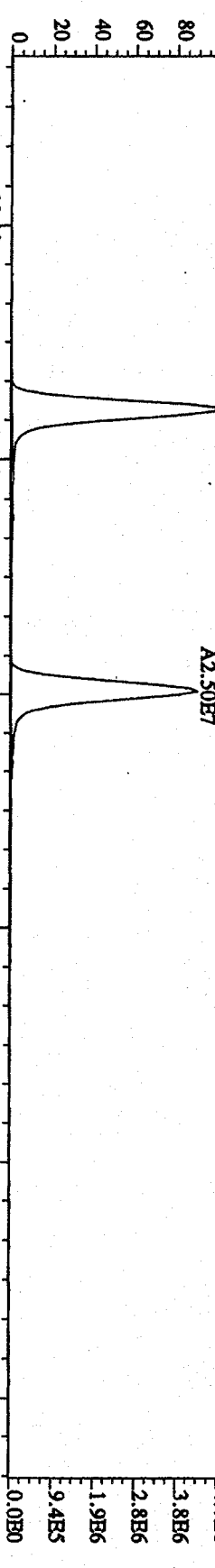
File:15DE091D5 #1-427 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SB

Sample#11 Text:ST12151 :CS2 09DXNZ37 Exp:DIOXIN

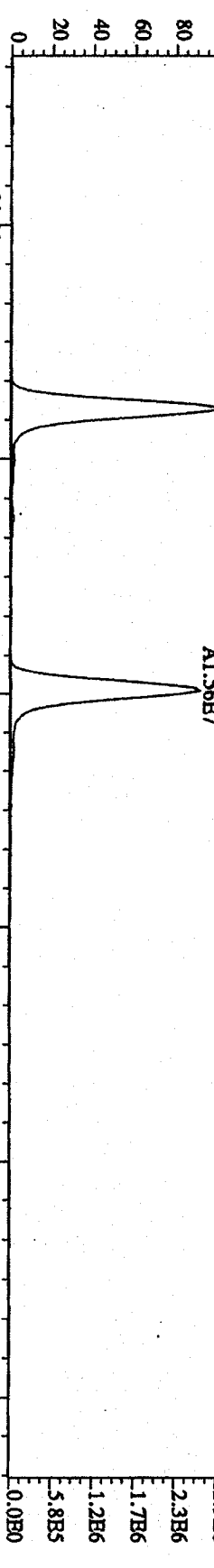
342.9792 S:11 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



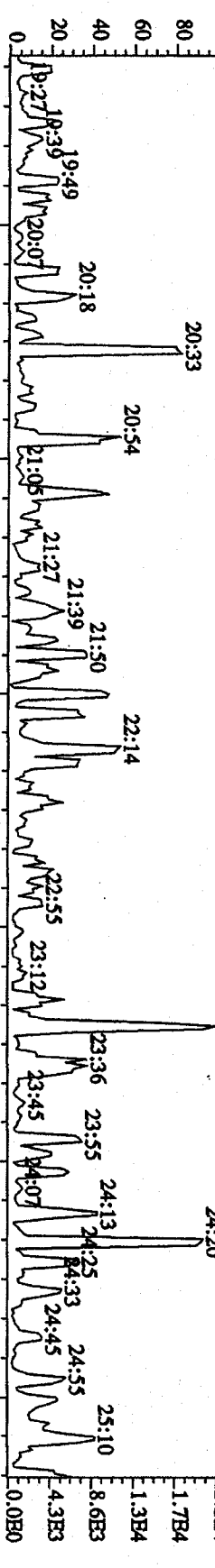
339.8597 S:11 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6952.0,1.00%,F,T)



341.8567 S:11 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7972.0,1.00%,F,T)

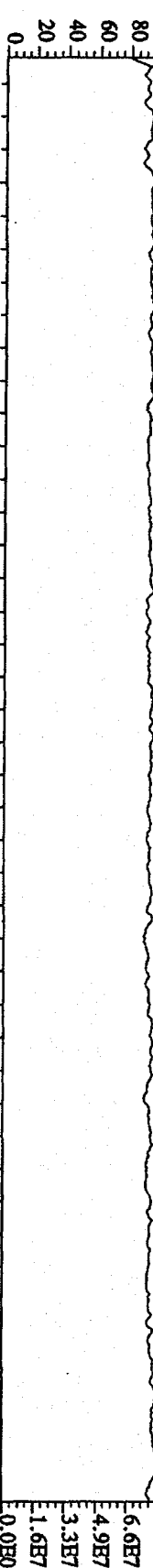


409.7974 S:11 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,1332.0,1.00%,F,T)

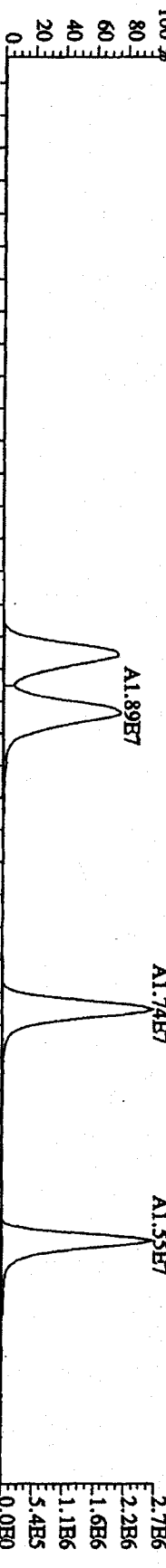


File:15DBE091D5 #1-492 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SB
Sample#11 Text:ST12151 :CS2 09DXN237 Bsp:DIOXIN

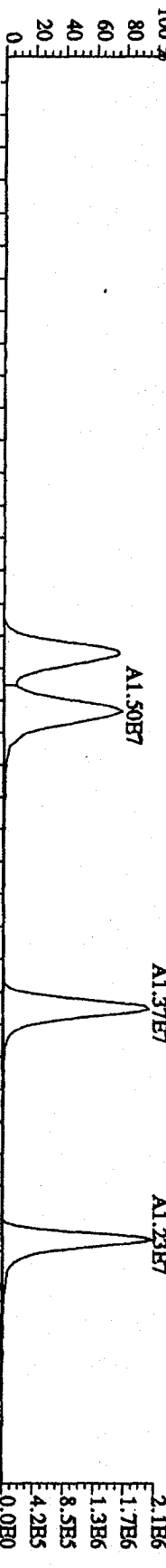
392.9760 S:11 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



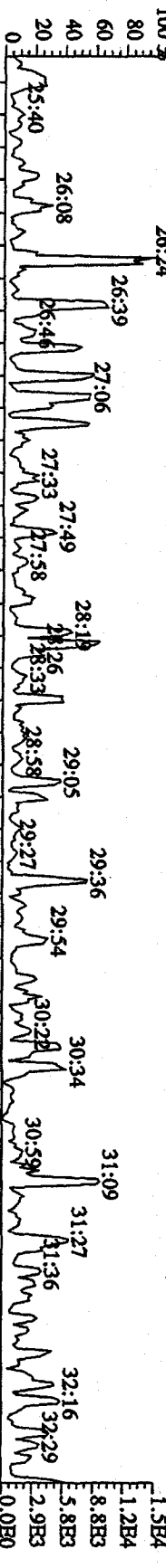
373.8208 S:11 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0.10%,7284.0,1.00%,F,T)



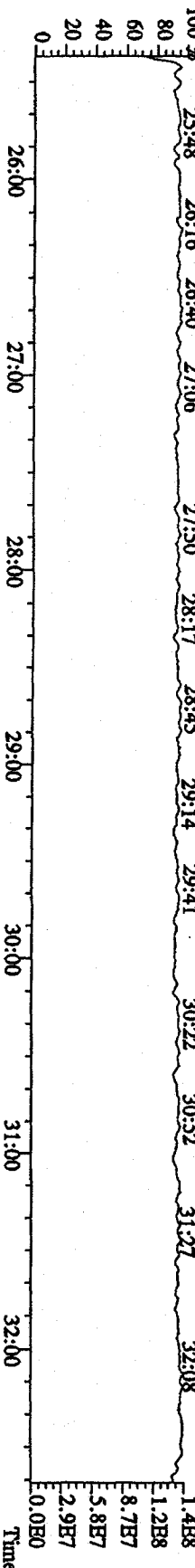
375.8178 S:11 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0.10%,6520.0,1.00%,F,T)



445.7555 S:11 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,100.00%,1752.0,1.00%,F,T)



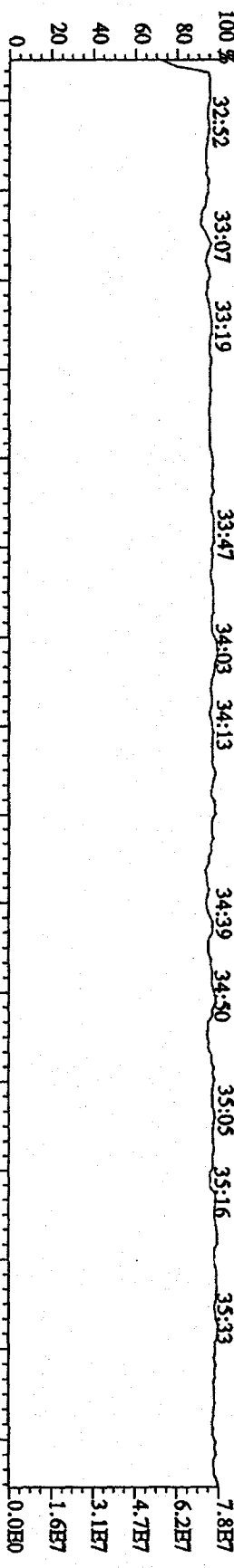
380.9760 S:11 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



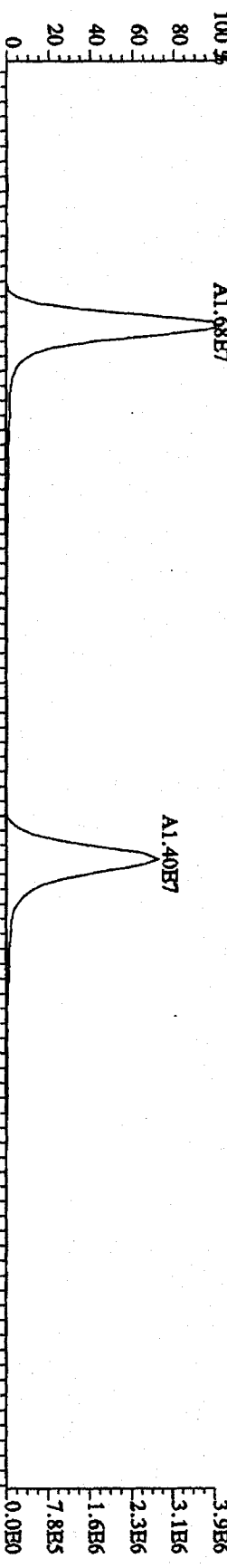
File:15DE091D5 #1-226 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SE

Sample#11 Text:ST12151 :CS2 09DXNVZ37 Exp:DIOXIN

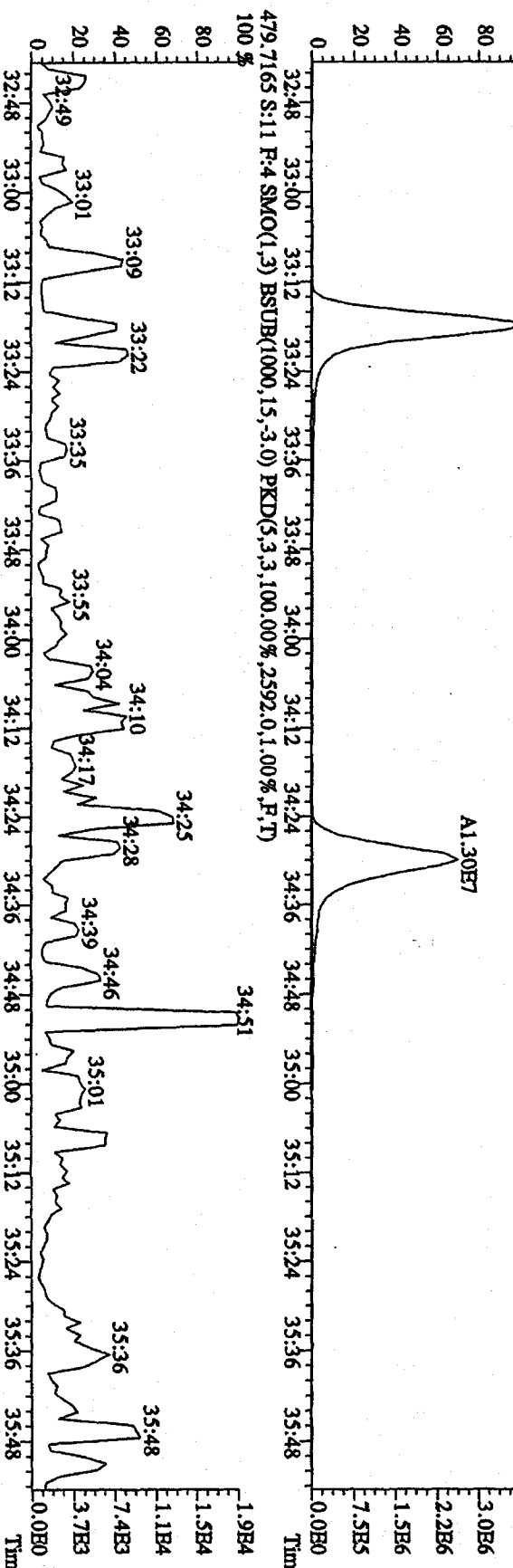
430.9728 S:11 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



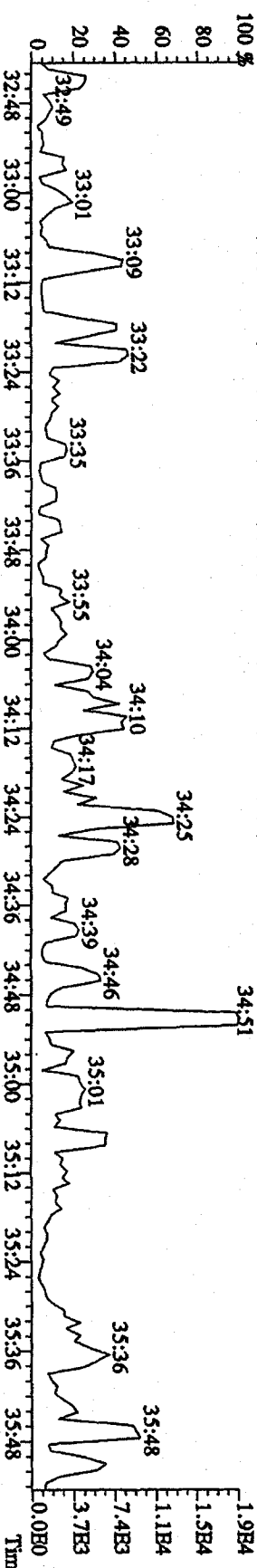
407.7818 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9492.0,1.00%,F,T)



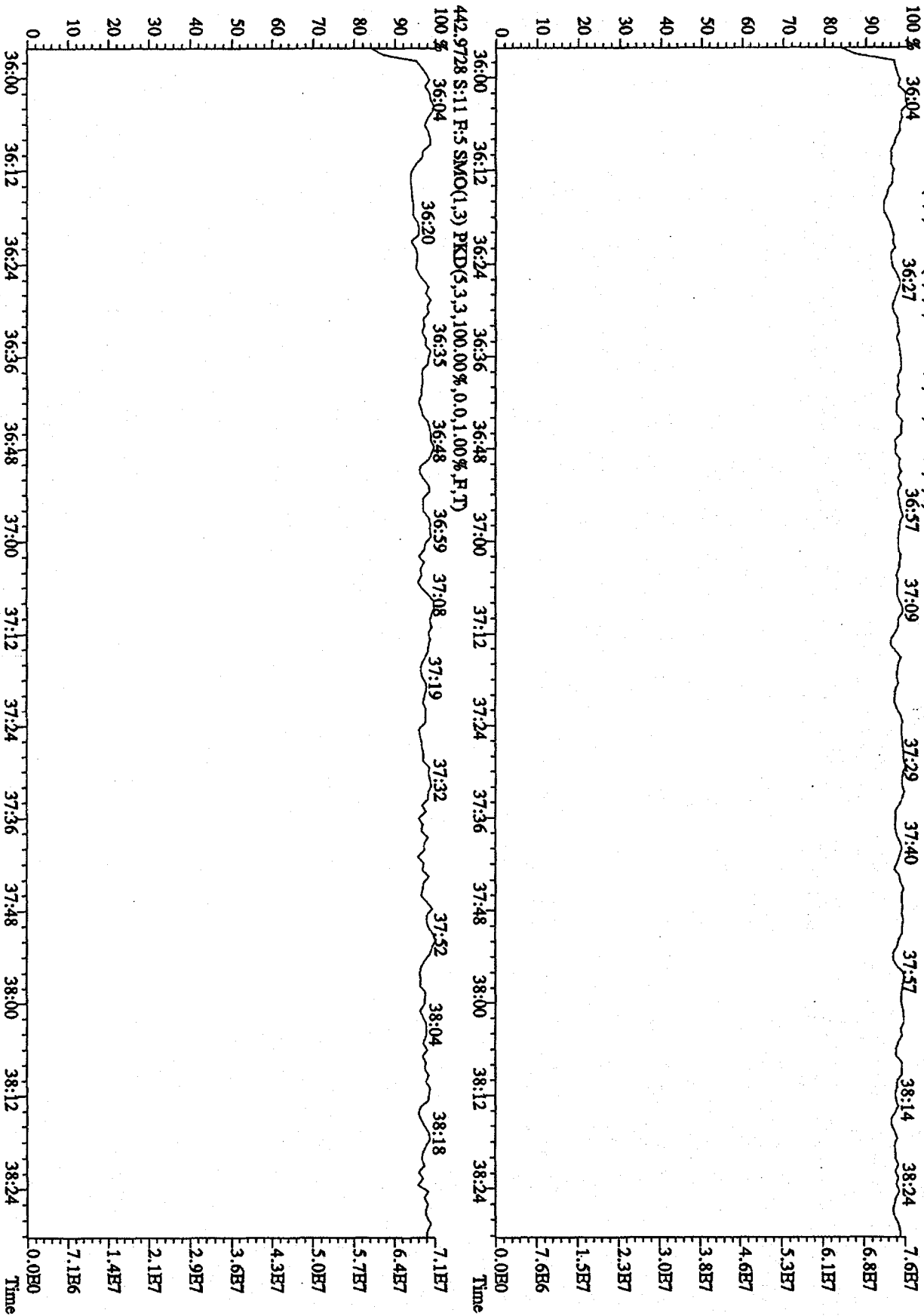
409.7789 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9584.0,1.00%,F,T)



479.7165 S:11 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,2592.0,1.00%,F,T)

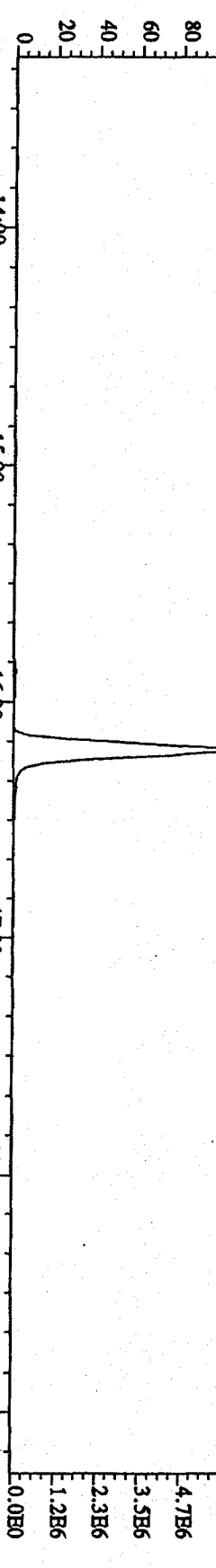


File:15DE091D5 #1-186 Acq:15-DEC-2009 17:27:35 GC EI+ Voltage SIR 70SB
 Sample#11 Text:ST12151 :CS2 09DXN237 Exp:DIOXIN
 434.9728 S:11 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 36:04 36:27 36:57 37:09 37:29 37:40 37:57 38:14 38:24

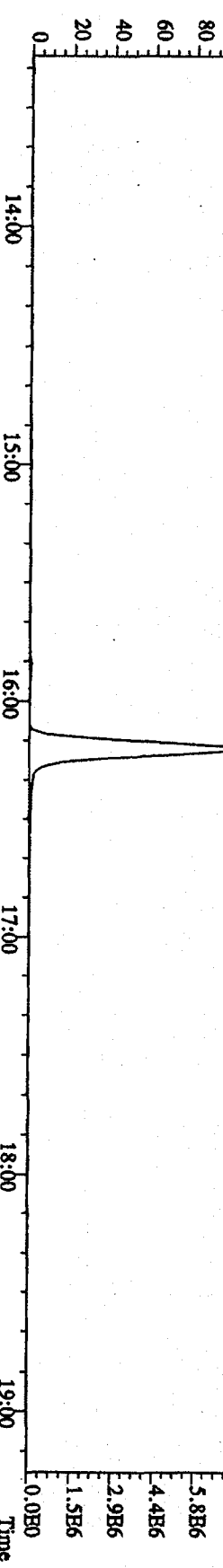


File:15DE091D5 #1-354 Acq:15-DEC-2009 16:45:45 GC EI+ Voltage SIR 70SB

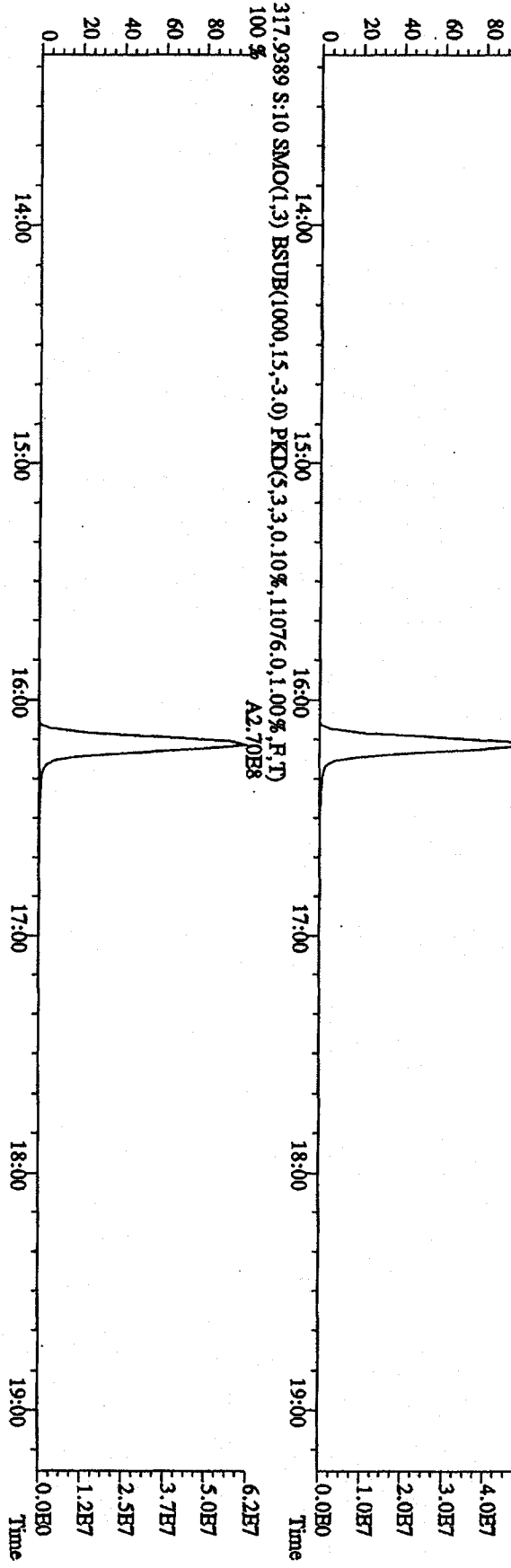
Sample#10 Text:ST1215H :CS3 09DXN384 Bsp:DIOXIN A2.57E7



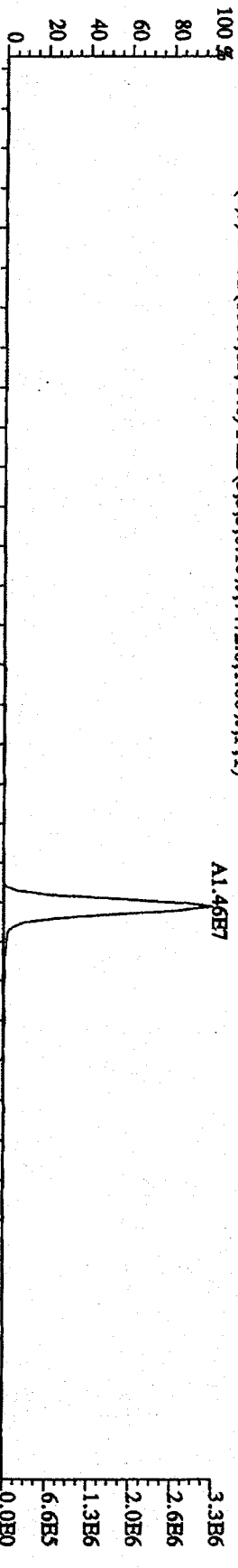
305.8987 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9684.0,1.00%,F,T)



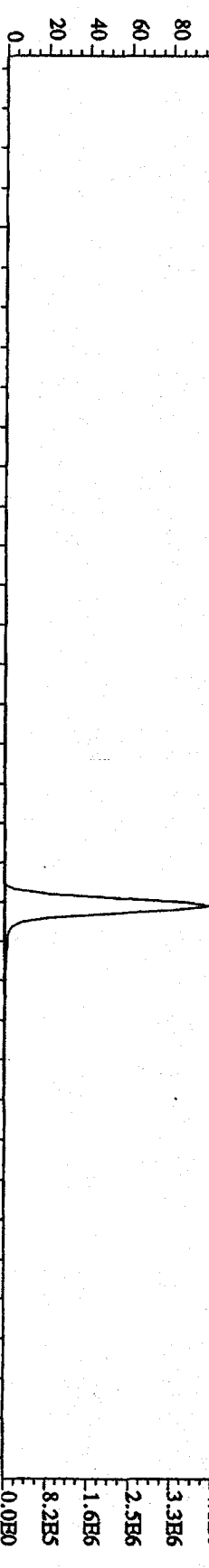
317.9389 S:10 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11076.0,1.00%,F,T)



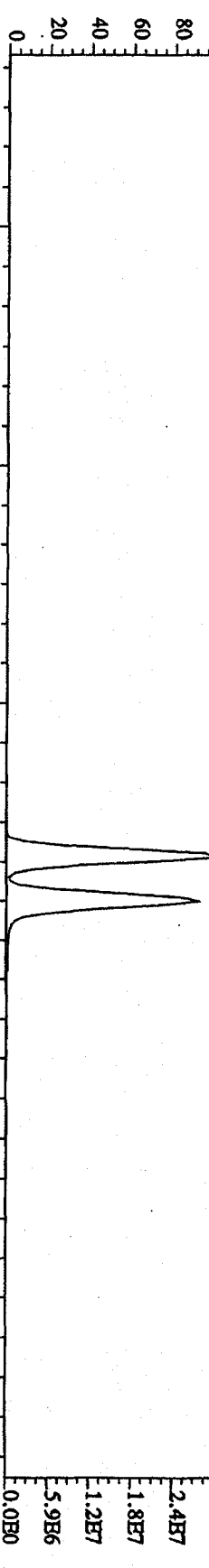
File:15DE091D5 #1-354 Acq:15-DEC-2009 16:45:45 GC HI+ Voltage SIR 70SE
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN
 319,8965 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7472,0,1,00%,F,T)



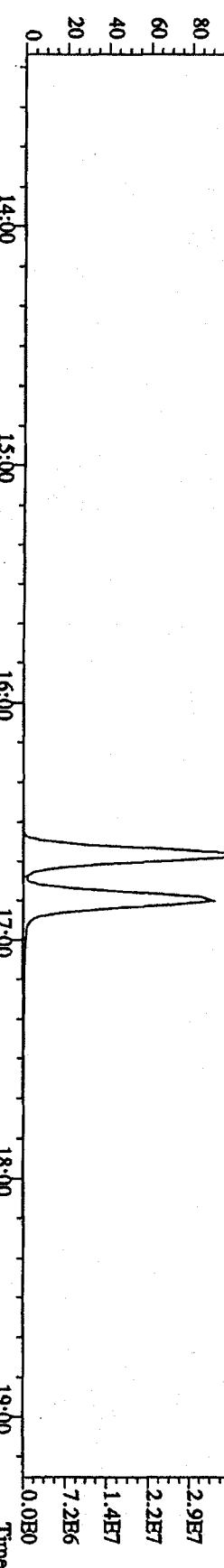
321,8936 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7852,0,1,00%,F,T)



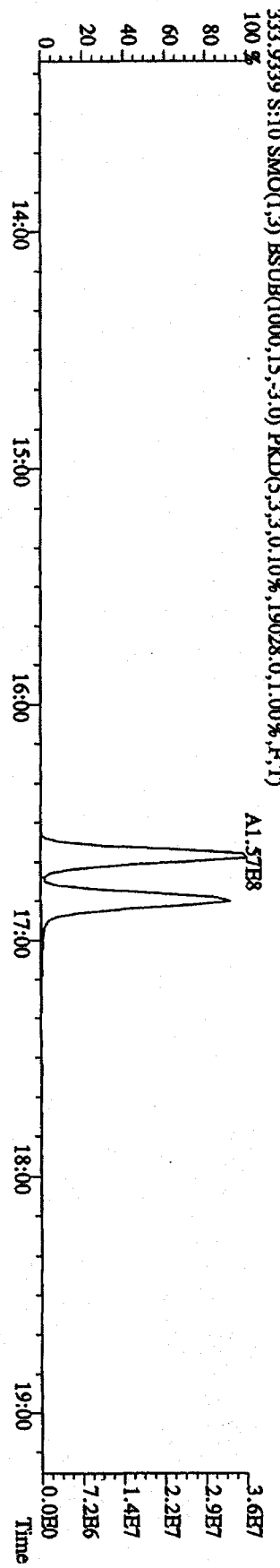
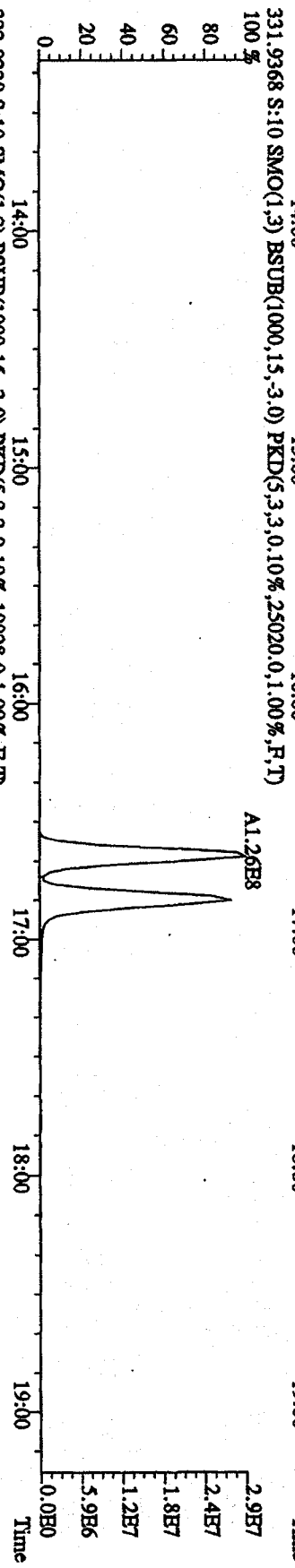
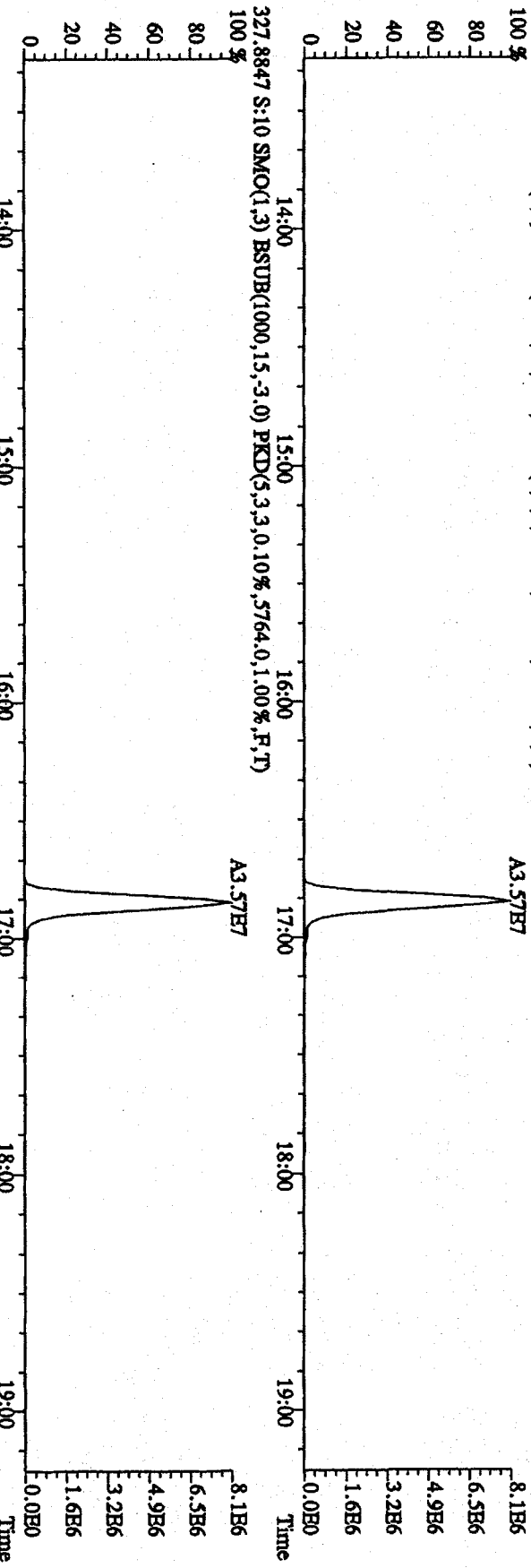
331,9368 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,25020,0,1,00%,F,T)



333,9339 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,19028,0,1,00%,F,T)

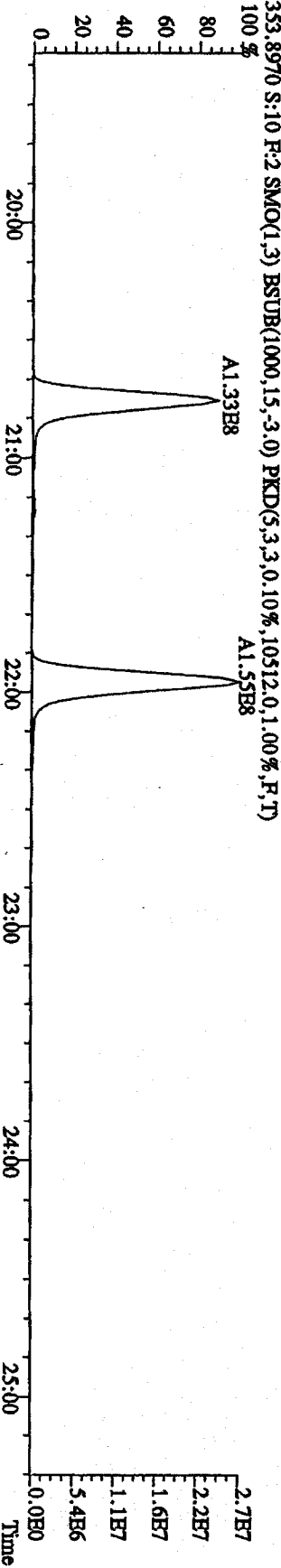
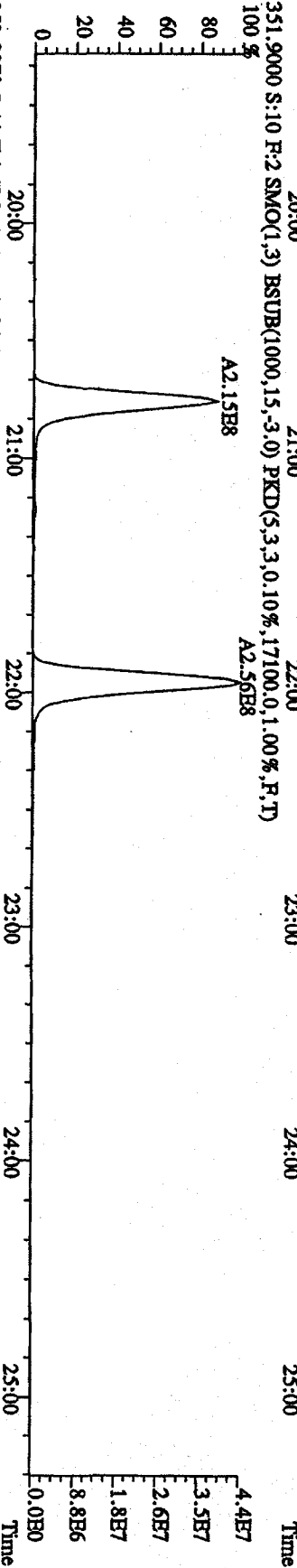
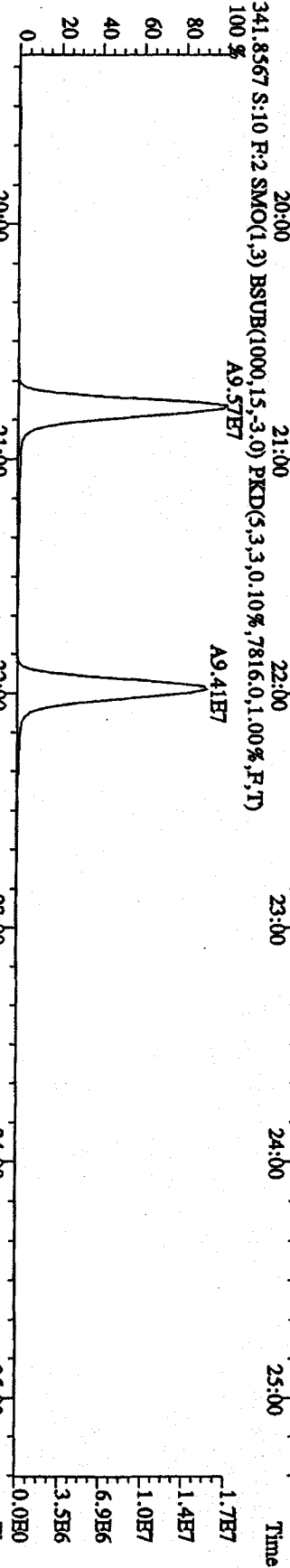
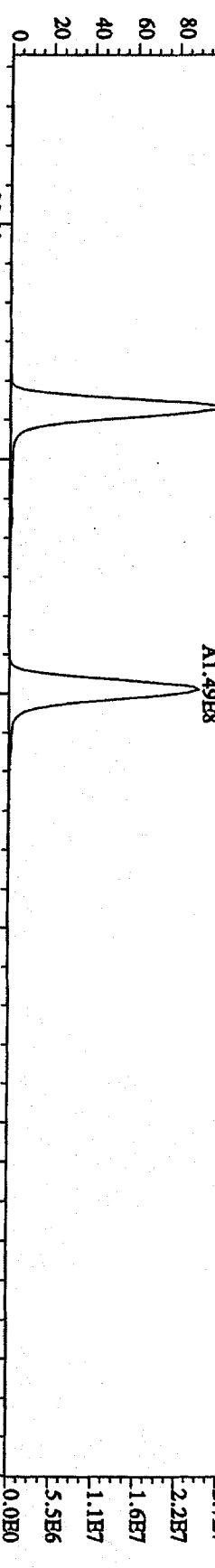


File:15DB091D5 #1-354 Acq:15-DEC-2009 16:45:45 GC EI+ Voltage SIR 70SE
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN
 327.8847 S:10 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5764,0,1.00%,F,T)

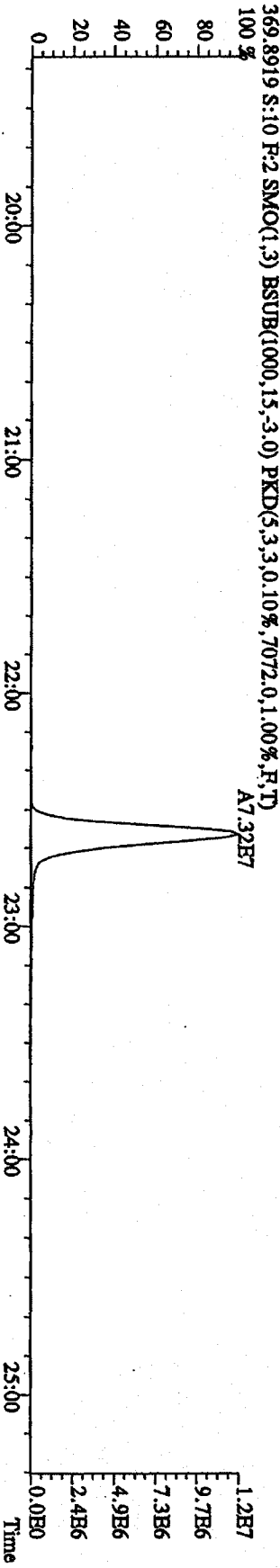
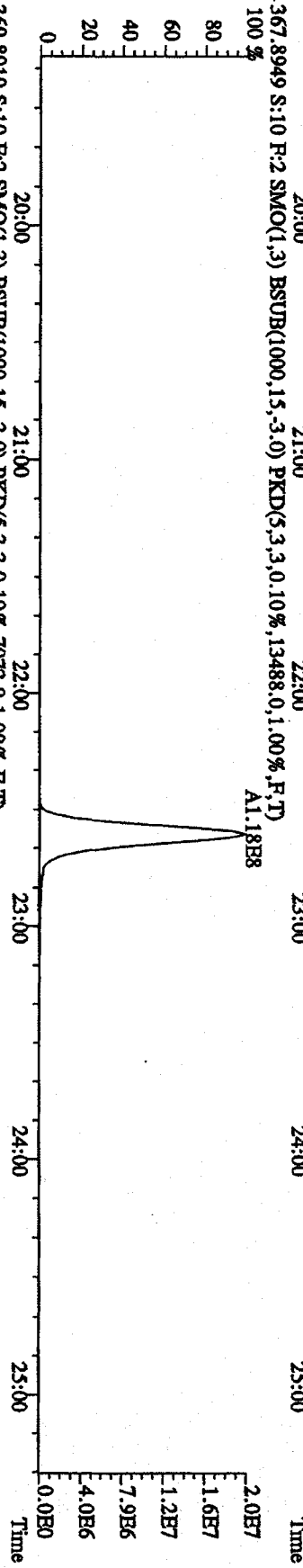
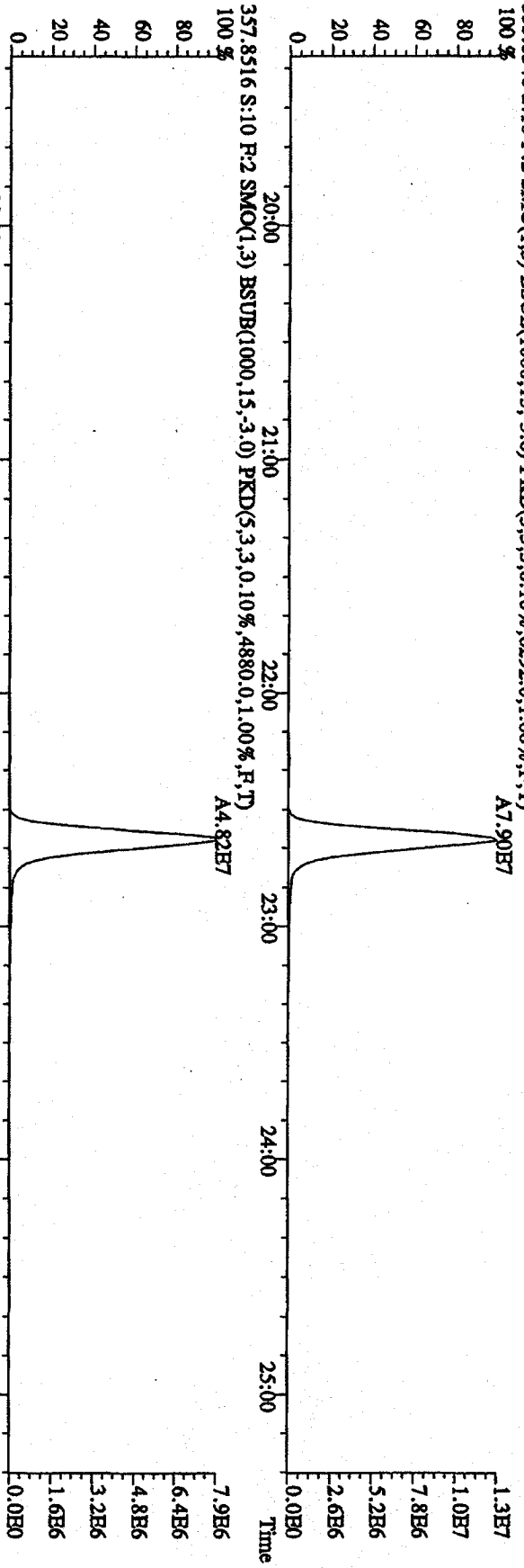


File:15DE091D5 #1-427 Acq:15-DEC-2009 16:45:45 GC EI+ Voltage SIR 70SE

Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN

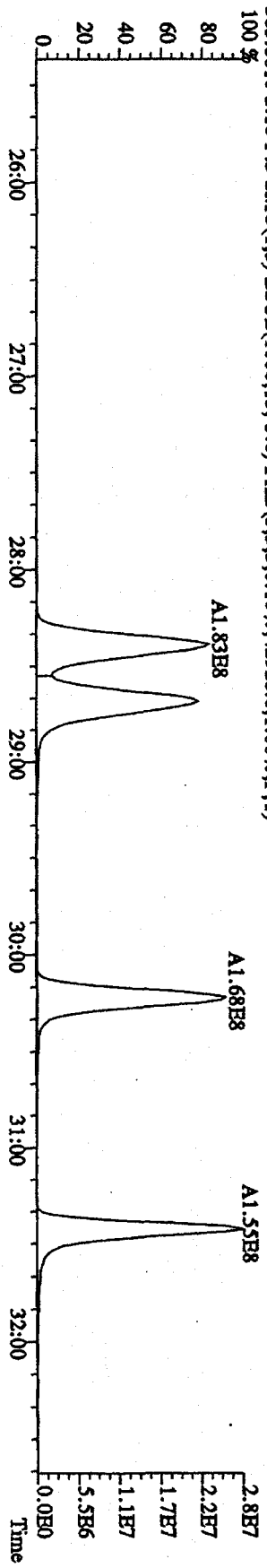
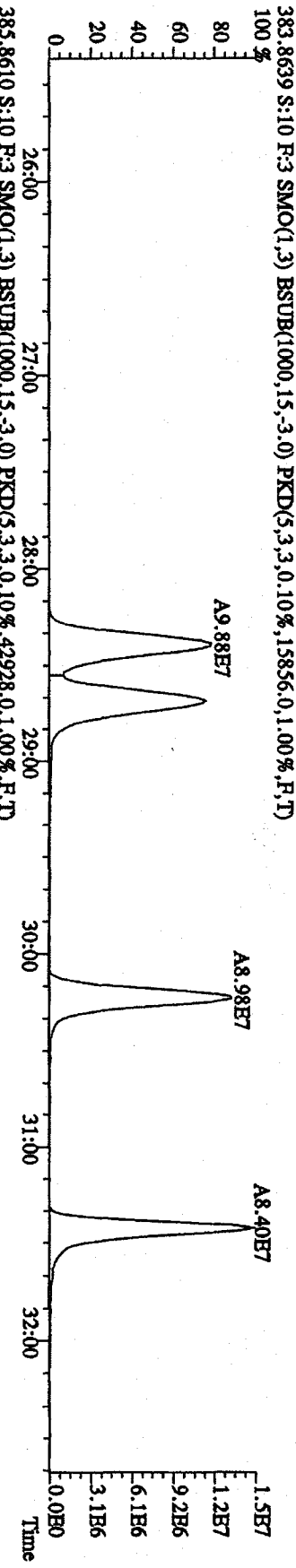
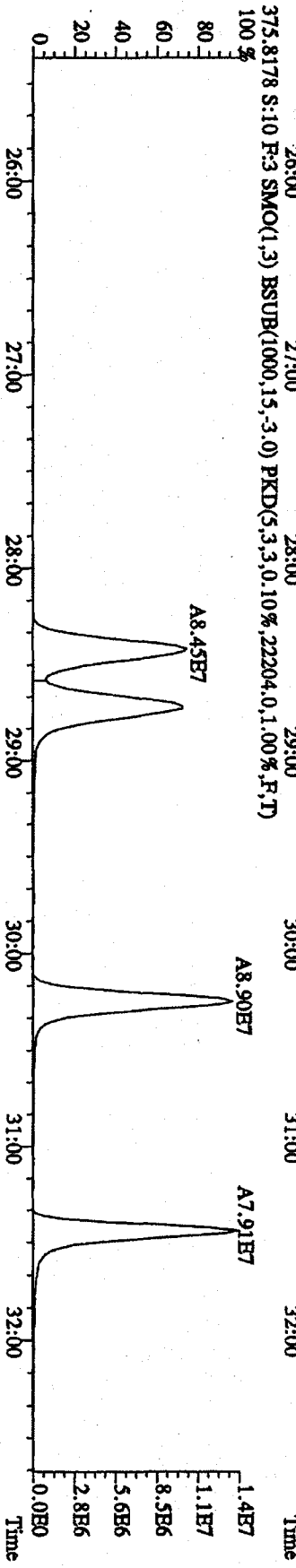
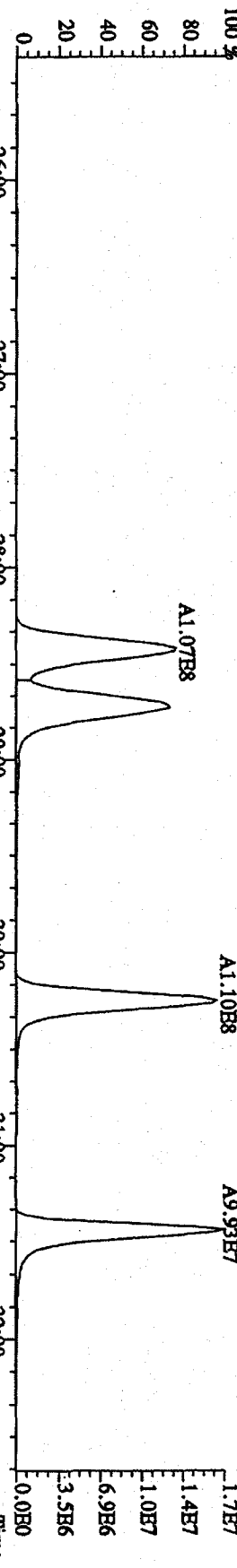


File:15DB091D5 #1-427 Acq:15-DEC-2009 16:45:45 GC BE + Voltage SIR 705B
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN
 355,8546 S:10 F:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3.0,10%,6292.0,1.00%,F,T)
 100 %

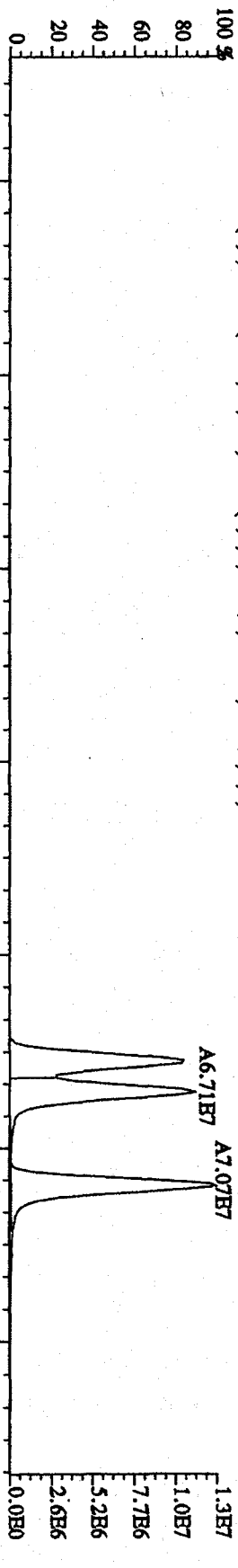


File:15DE091D5 #1-492 Acq:15-DEC-2009 16:45:45 GC EI+ Voltage SIR 70SE

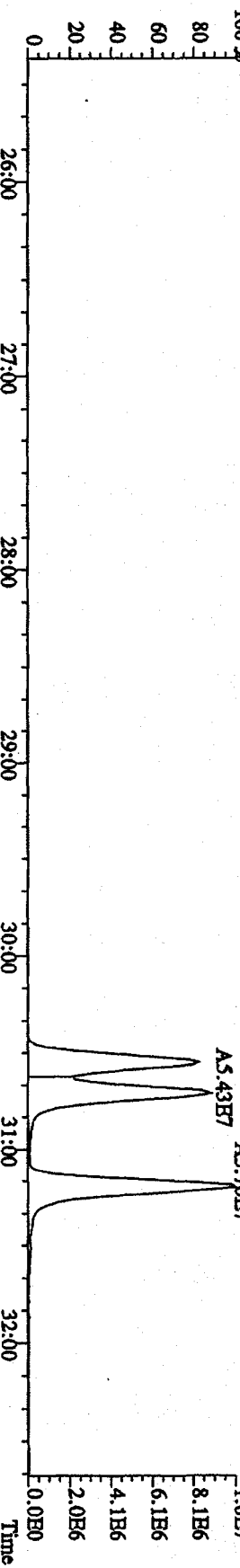
Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN



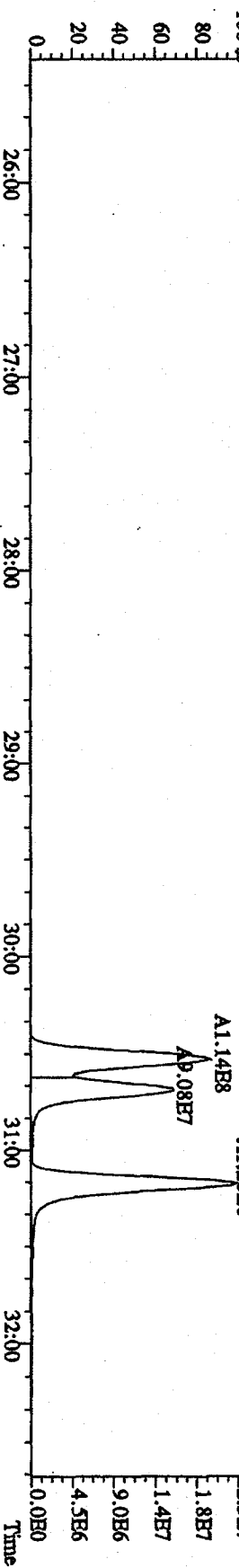
File:15DE091D5 #1-492 Acq:15-DEC-2009 16:45:45 GC EI+ Voltage SIR 70SE
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN
 389.8157 S:10 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4712.0,1.00%,F,T)
 100 %



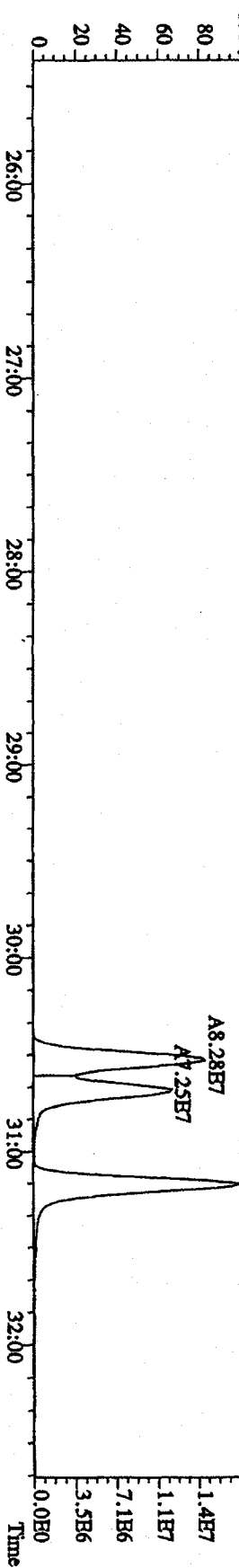
391.8127 S:10 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,6224.0,1.00%,F,T)
 100 %



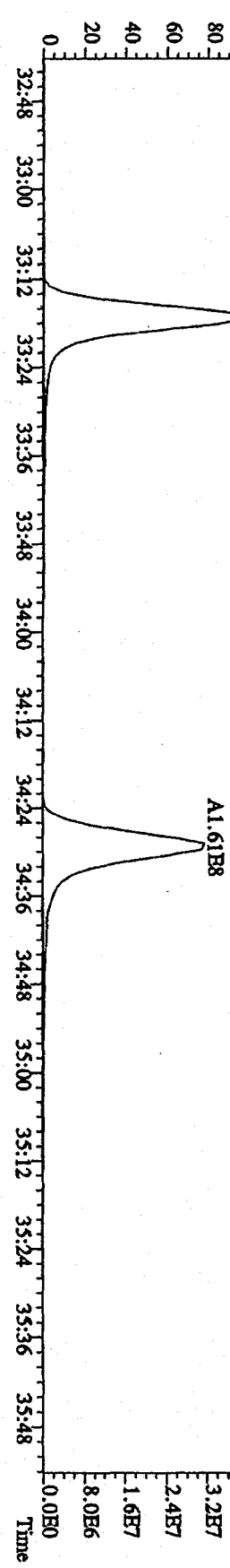
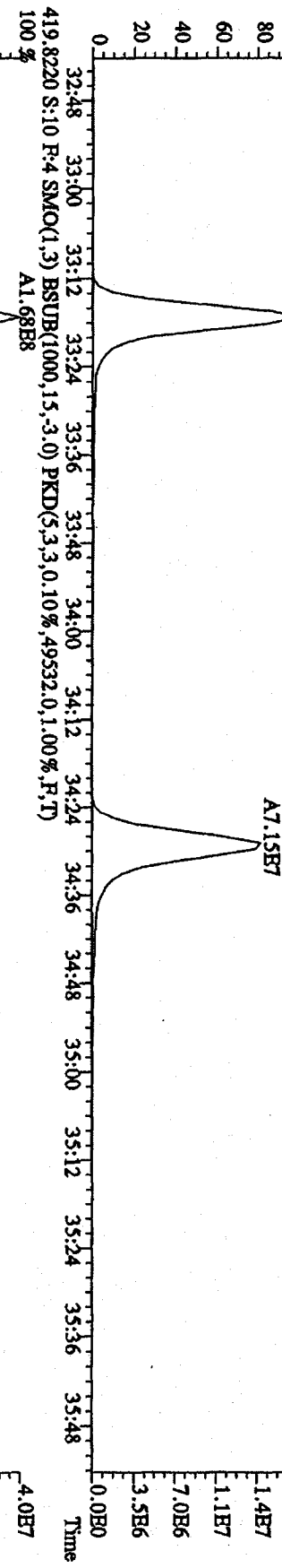
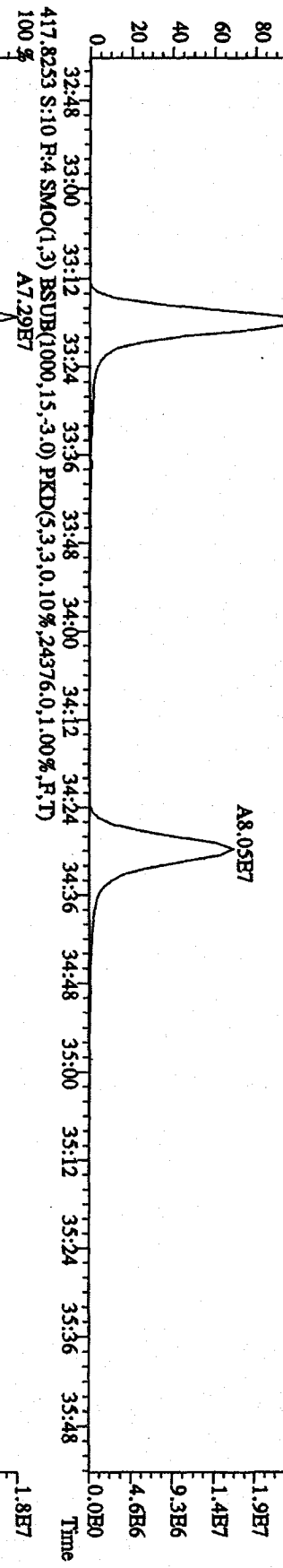
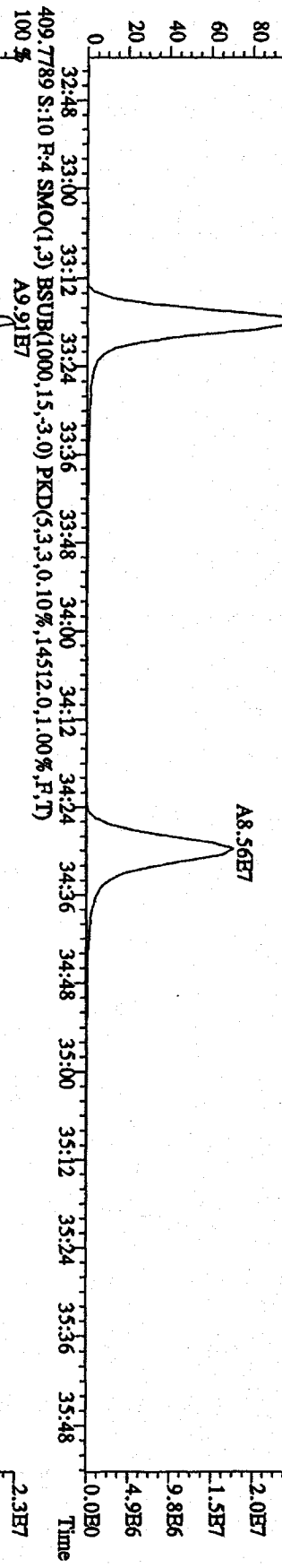
401.8559 S:10 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,5704.0,1.00%,F,T)
 100 %



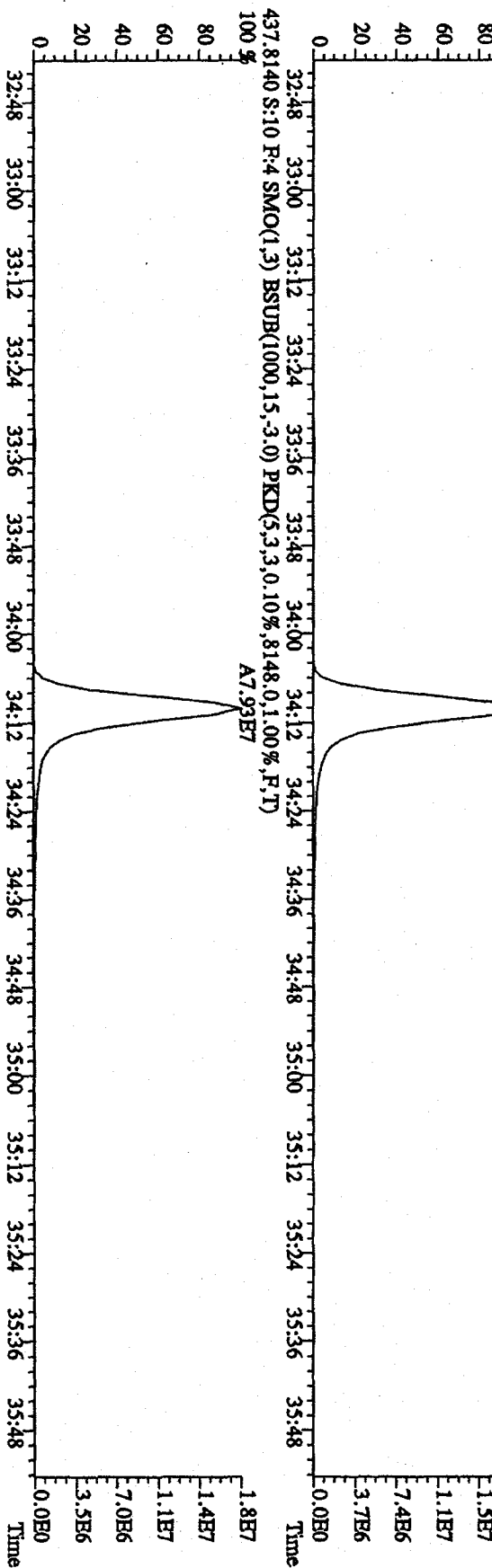
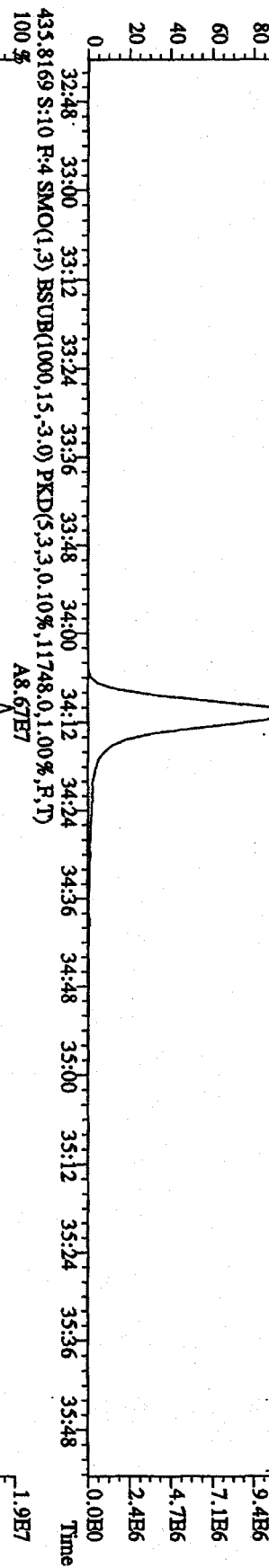
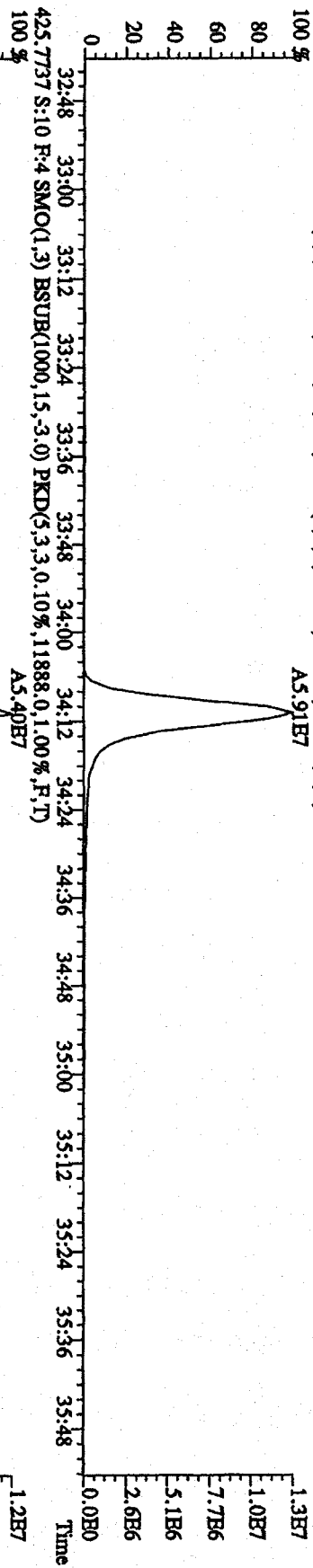
403.8529 S:10 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4368.0,1.00%,F,T)
 100 %



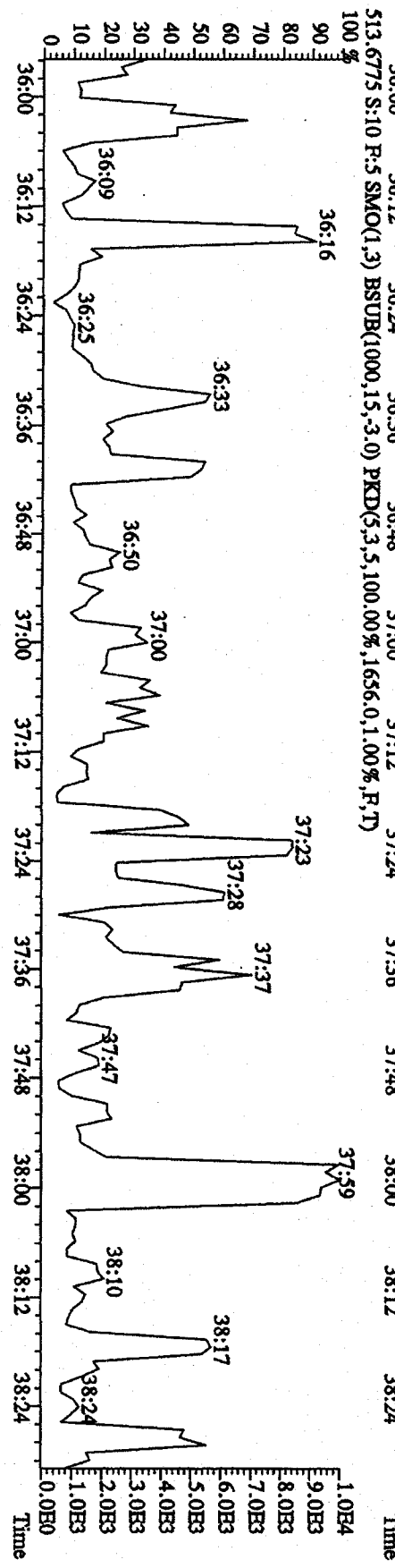
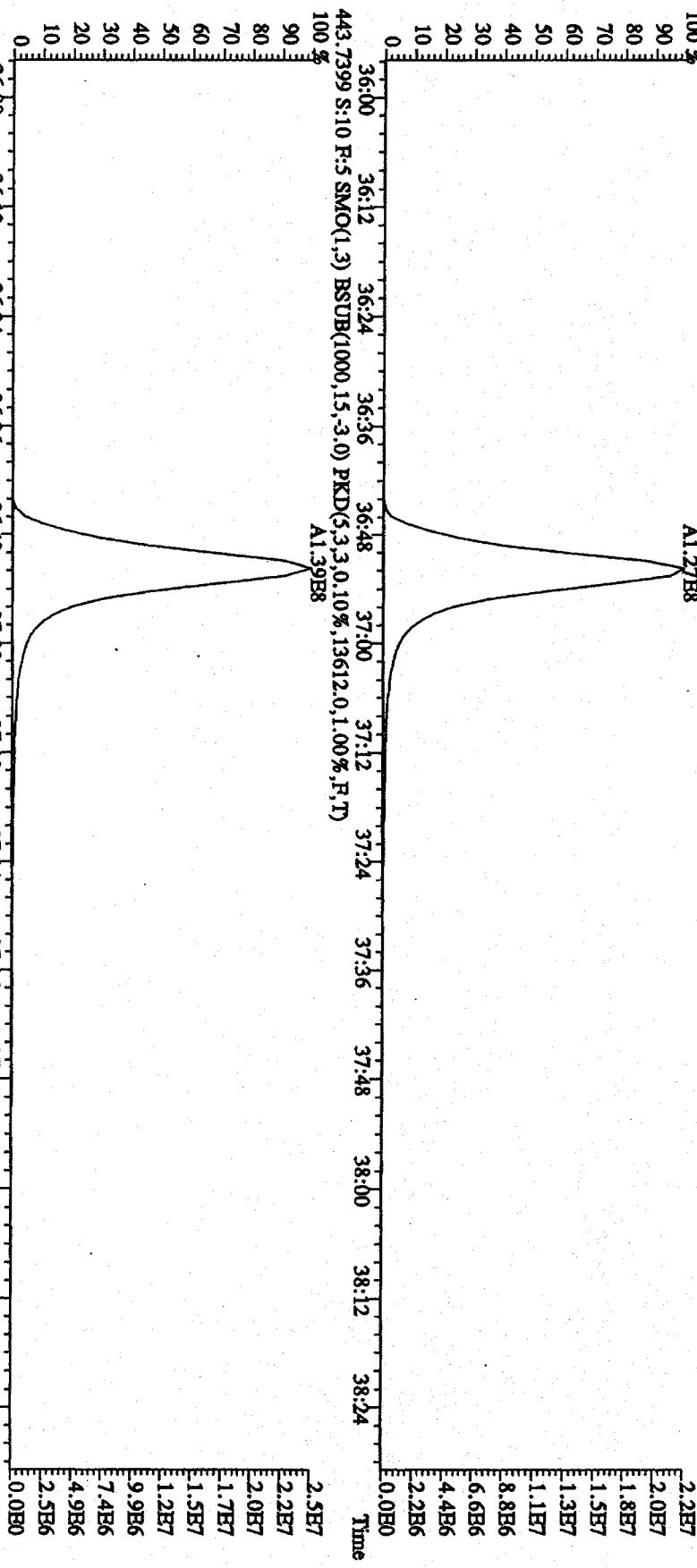
File:15DE091D5 #1-226 Acq:15-DEC-2009 16:45:45 GC EI+ Voltage SIR 70SE
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN
 407.7818 S:10 R:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10632,0,1,00%,F,T)
 100%



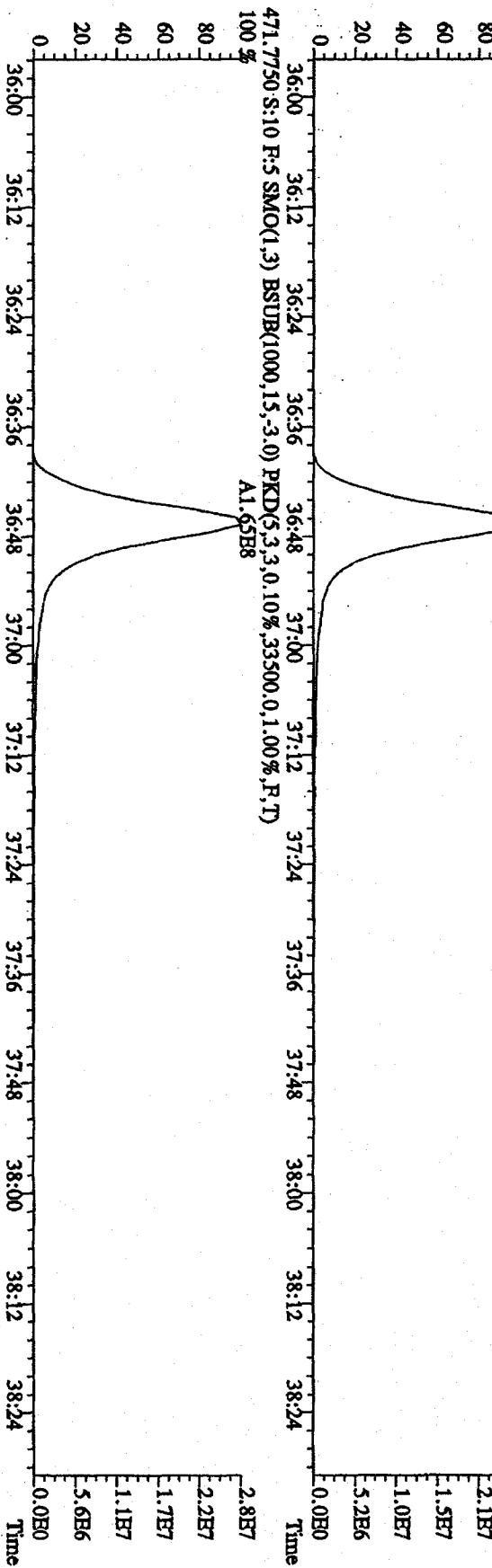
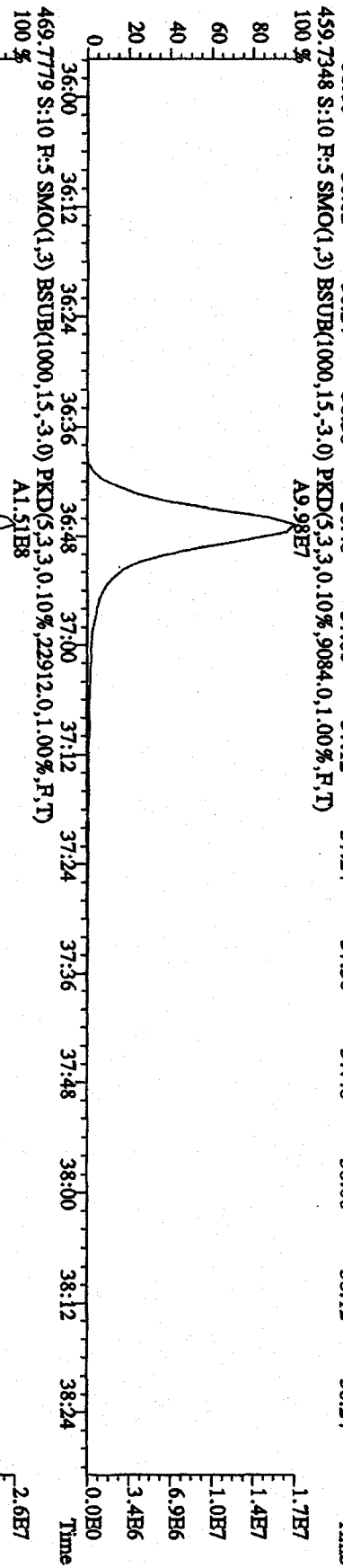
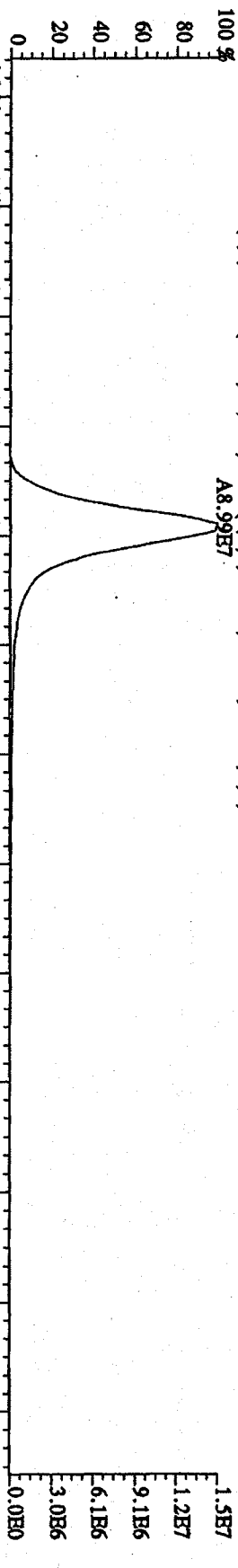
File:15DB091D5 #1-226 Acq:15-DEC-2009 16:45:45 GC EI+ Voltage SIR 70SE
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN
 423.7737 S:10 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,7472,0.1,00%,F,T)
 100%



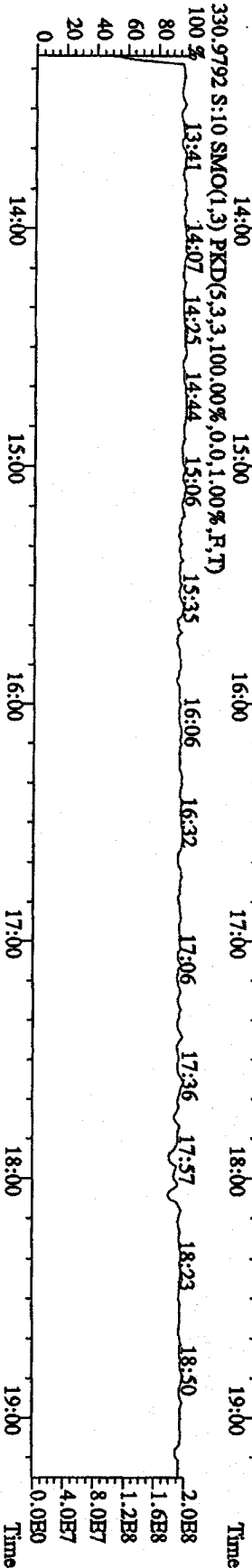
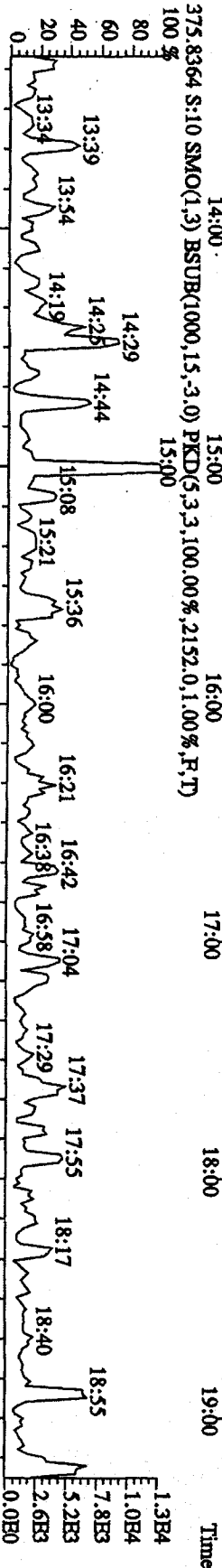
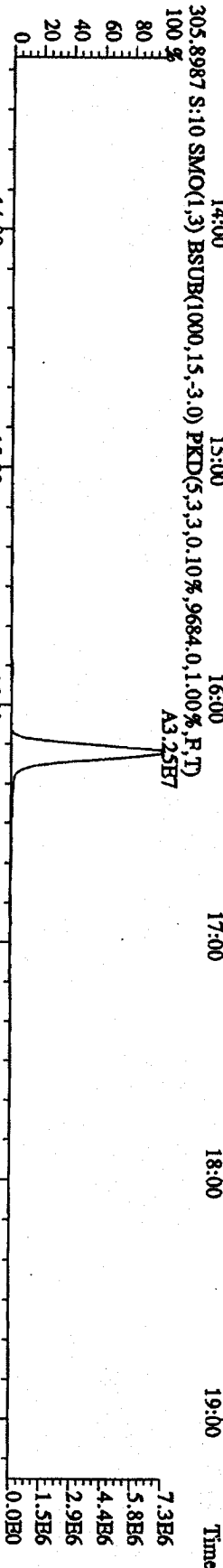
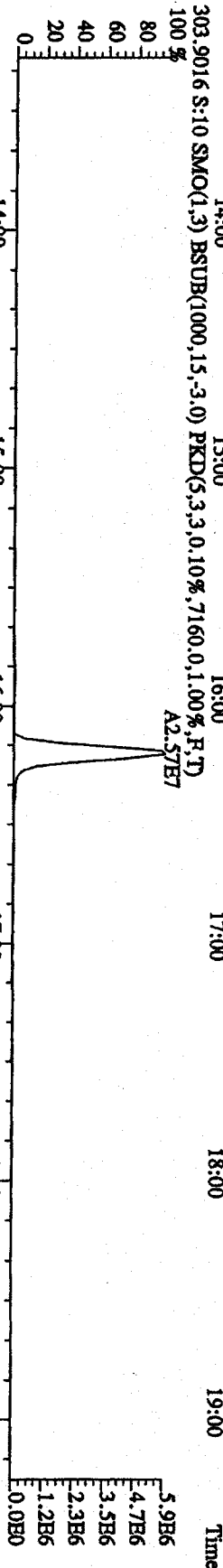
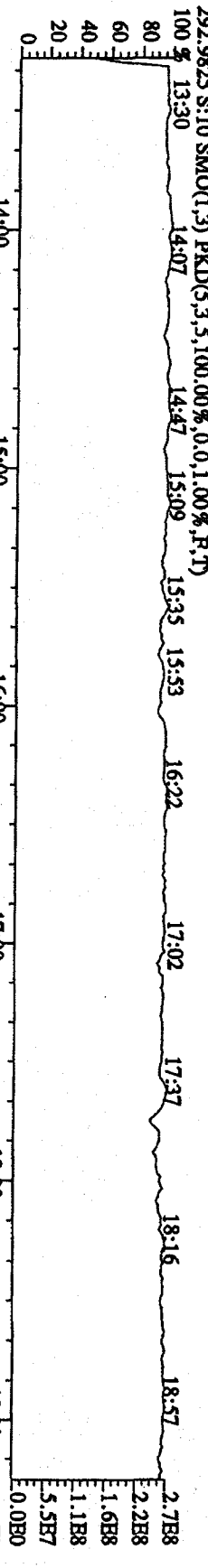
File:15DE091D5 #1-187 Acq:15-DEC-2009 16:45:45 GC EI+ Voltage SIR 705E
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN
 441.7428 S:10 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,11780,0,1,00%,F,T)
 100%



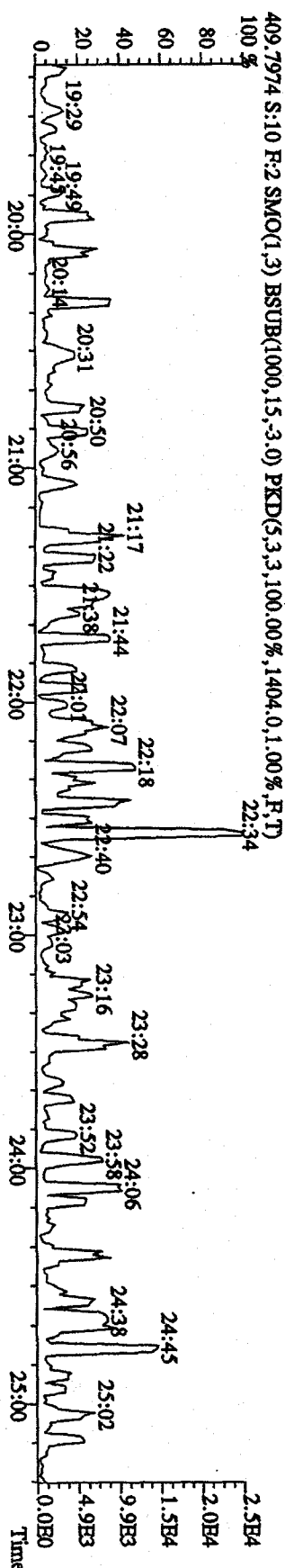
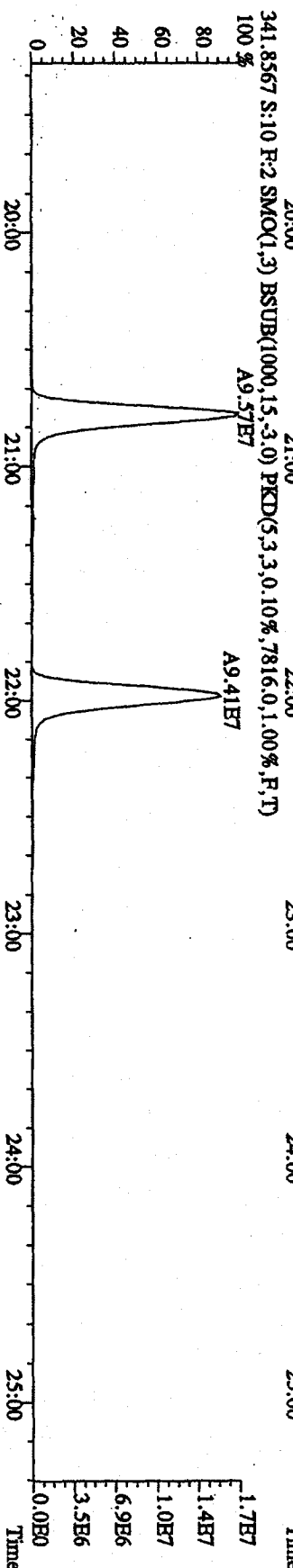
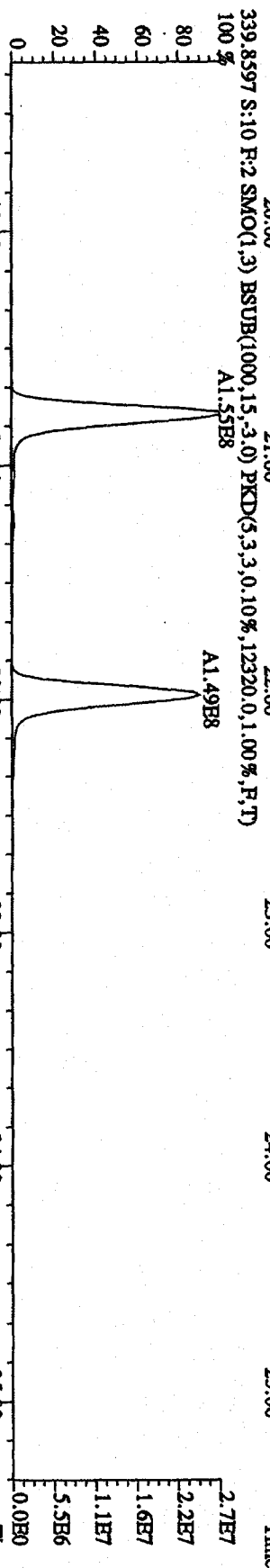
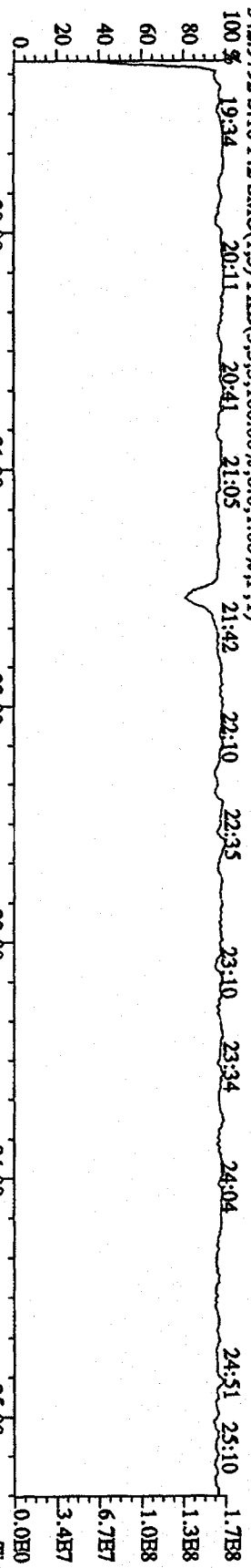
File:15DE091D5 #1-187 Acq:15-DEC-2009 16:45:45 GC HI+ Voltage SIR 70SE
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN
 457.7377 S:10 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4180,0.1,00%,F,T)
 100 %



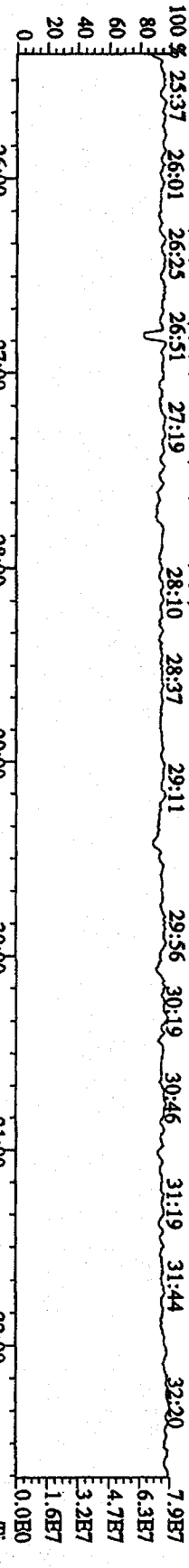
File:15DE091D5 #1-354 Acq:15-DEC-2009 16:45:45 GC HI + Voltage SIR 70SB
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN



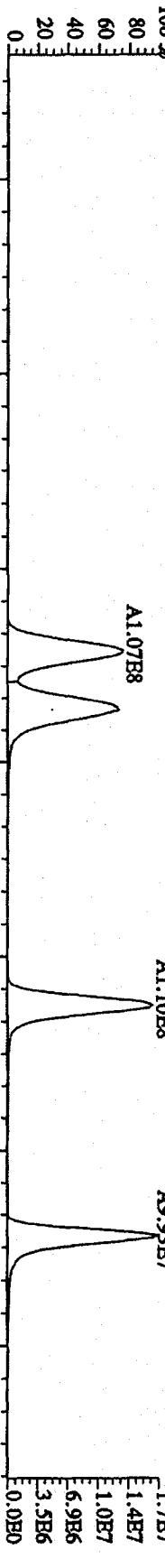
File:15DB091D5 #1-427 Acq:15-DEC-2009 16:45:45 GC EI+ Voltage SIR 70SE
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN



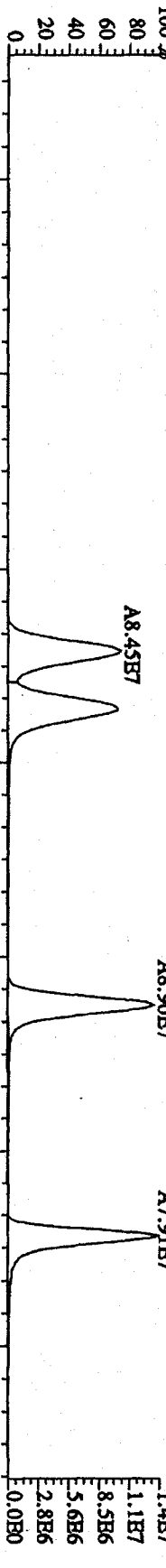
File: 15DEB091D5 #1-492 Acq: 15-DEC-2009 16:45:45 GC HI+ Voltage SIR 70SE
 Sample#10 Text: ST1215H : CSS 09DXN384 Exp: DIOXIN
 392.9760 S:10 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)
 100% 25:37 26:01 26:25 26:51 27:19 28:10 28:37 29:11 29:56 30:19 30:46 31:19 31:44 32:20



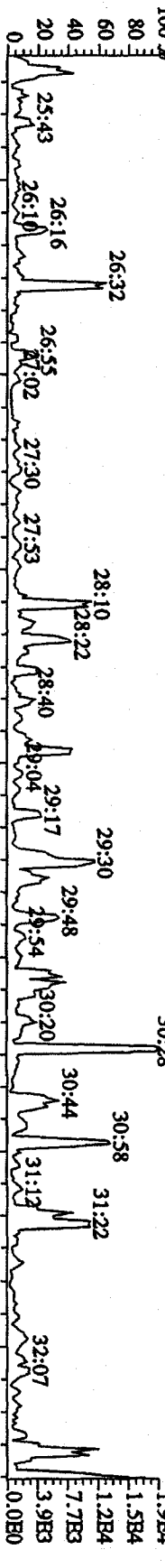
373.8208 S:10 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,14612,0,1,00%,F,T)



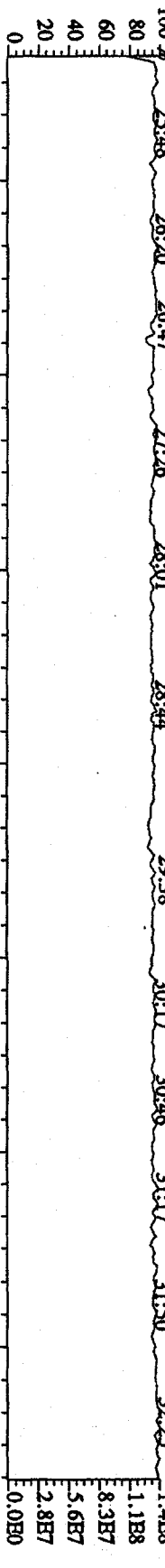
375.8178 S:10 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,22204,0,1,00%,F,T)



445.7555 S:10 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,1356,0,1,00%,F,T)



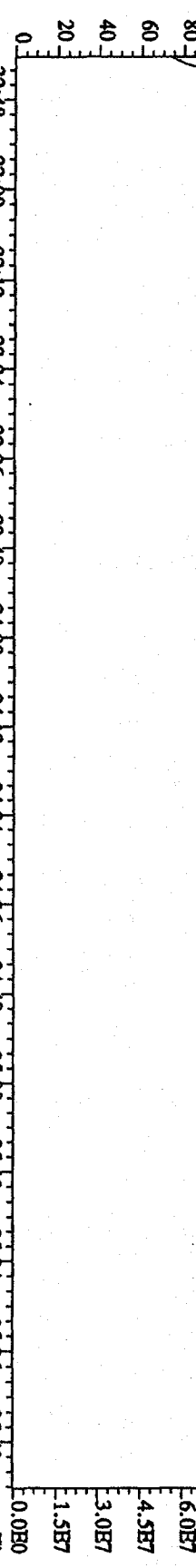
380.9760 S:10 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



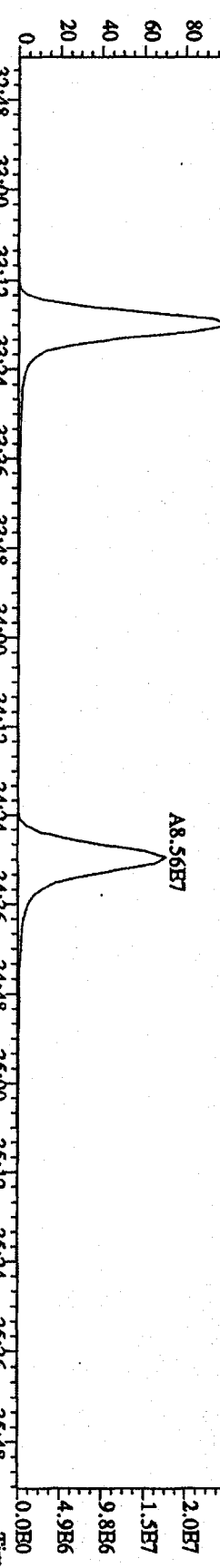
File:15DE091D5 #1-226 Acq:15-DEC-2009 16:45:45 GC HI+ Voltage SIR 70SE

Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN

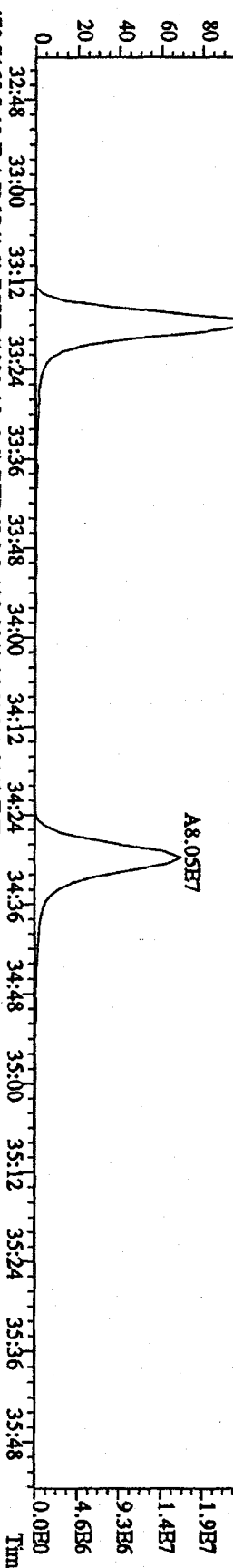
430.9728 S:10 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



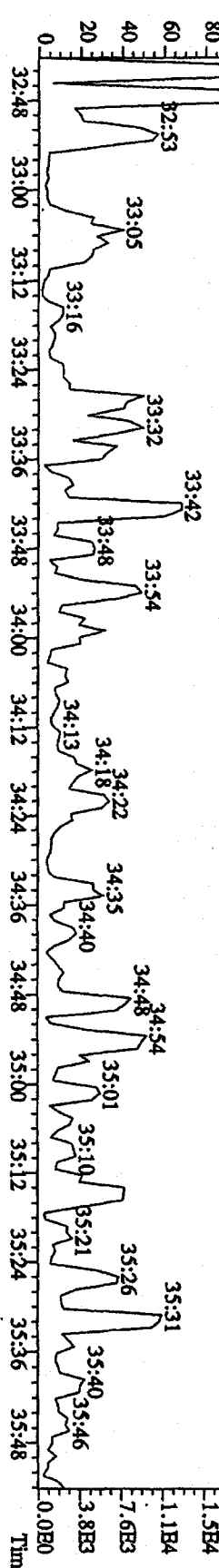
407.7818 S:10 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,10632.0,1.00%,F,T)



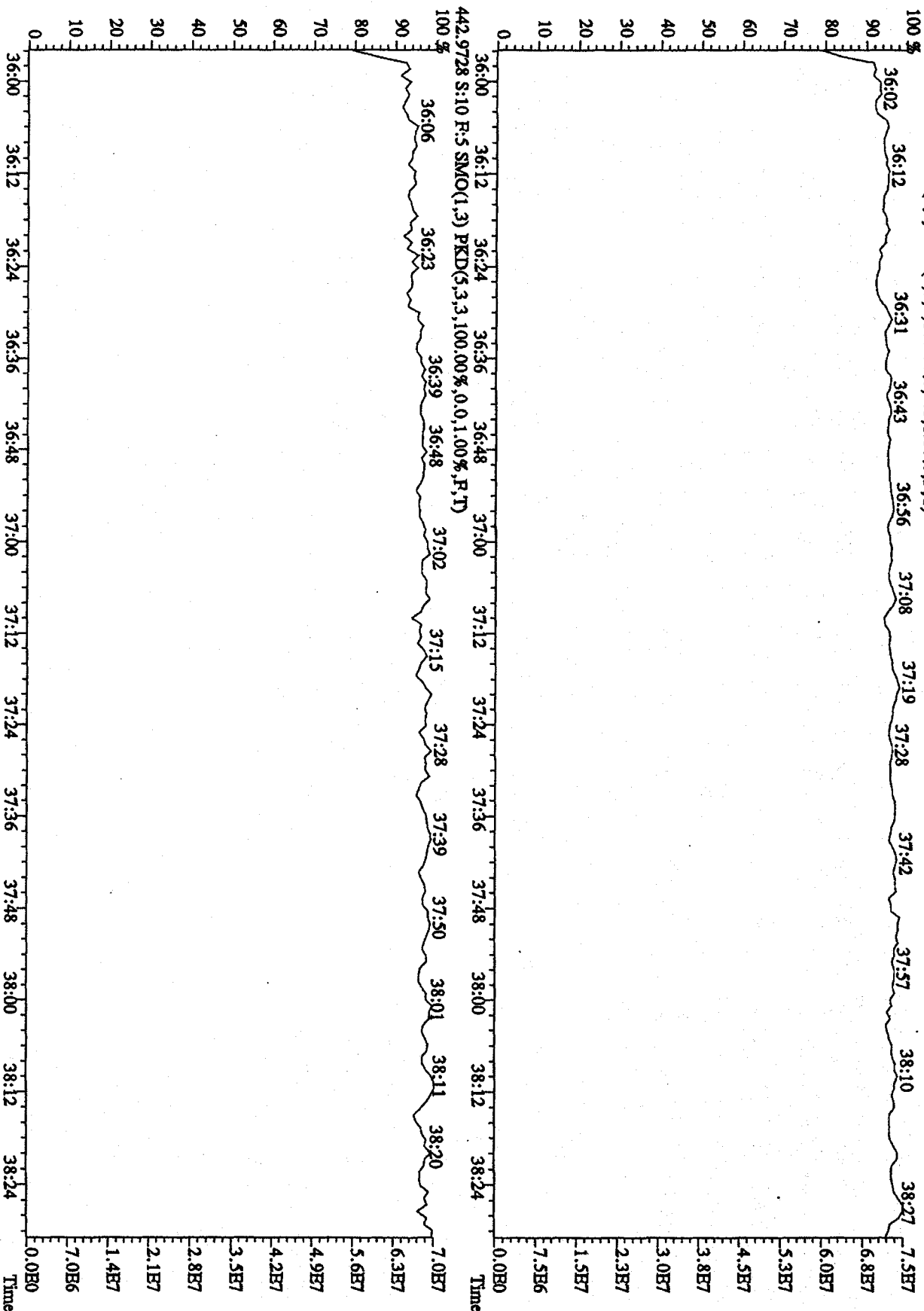
409.7789 S:10 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,14512.0,1.00%,F,T)



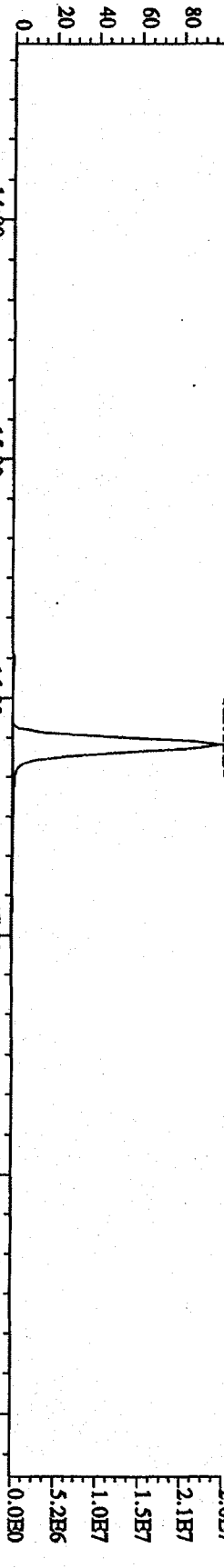
479.7165 S:10 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2264.0,1.00%,F,T)



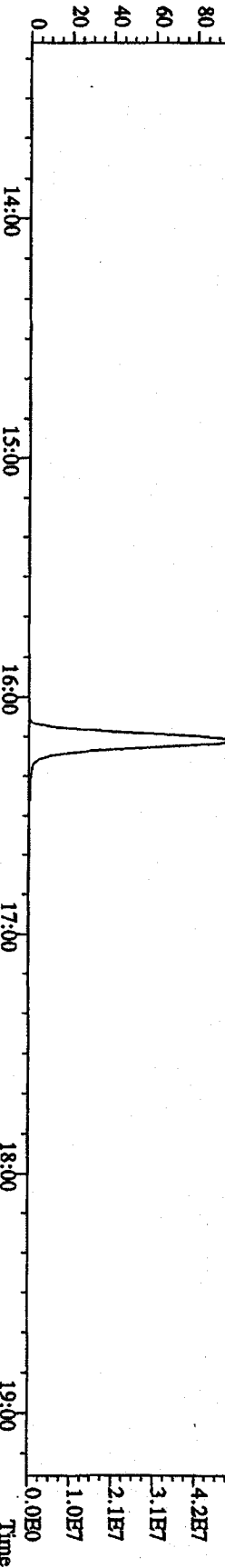
File:15DE091D5 #1-187 Acq:15-DEC-2009 16:45:45 GC EI+ Voltage SIR 70SE
 Sample#10 Text:ST1215H :CS3 09DXN384 Exp:DIOXIN
 454.9728 S:10 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



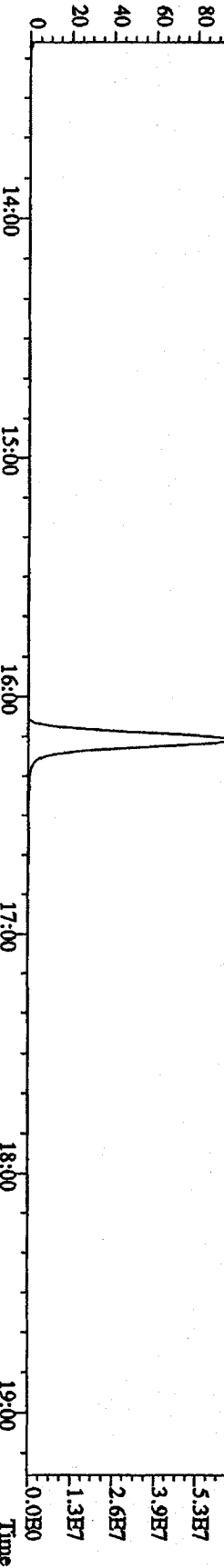
File:15DE09ID5 #1-355 Acq:15-DEC-2009 15:22:04 GC EI+ Voltage SIR 70SB
 Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,10232.0,1.00%,F,T)
 100% A1.11E8



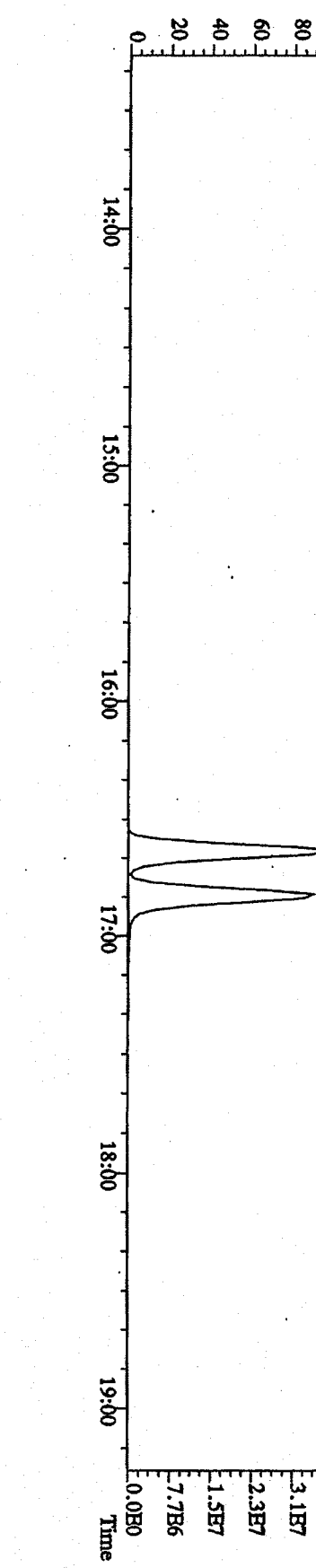
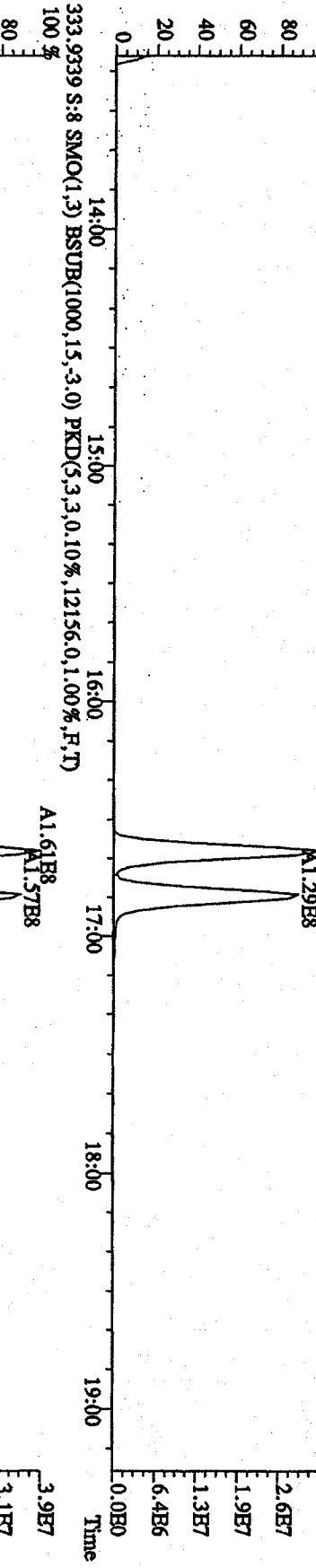
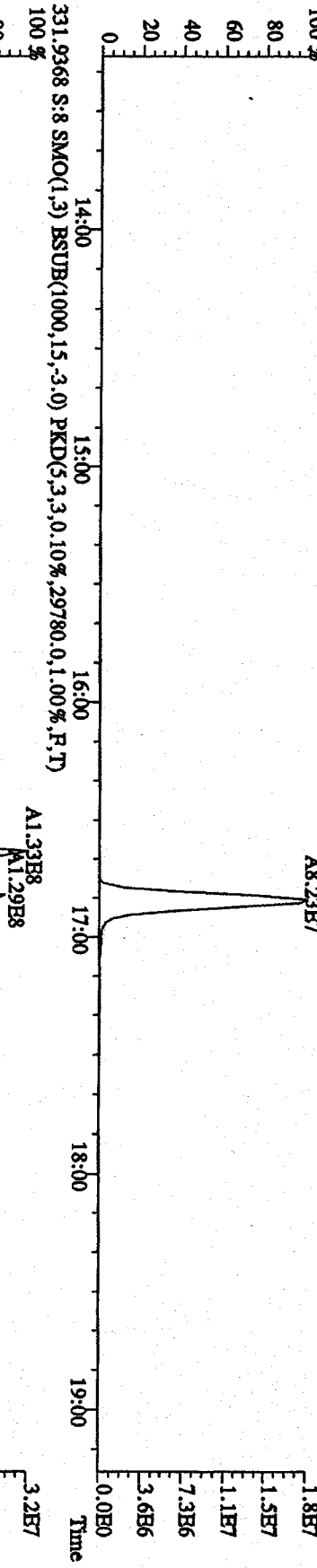
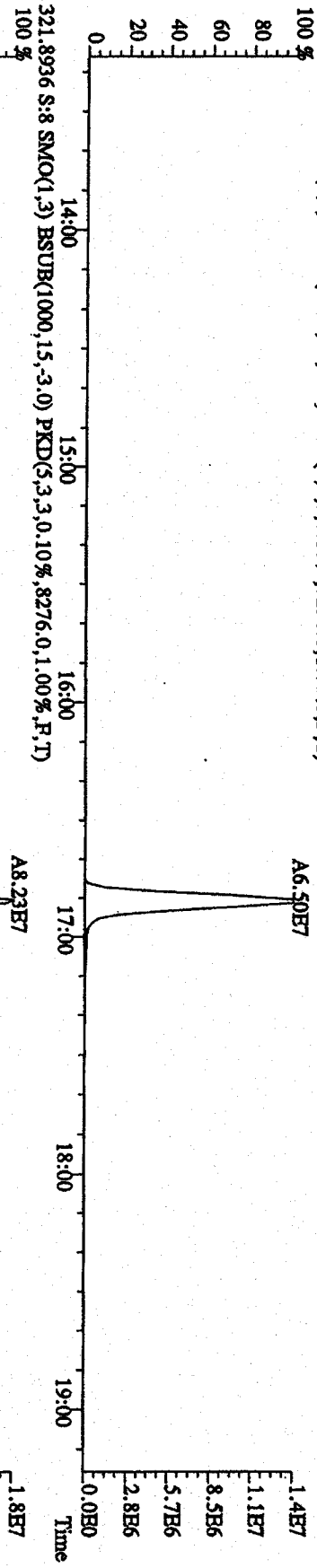
305.8987 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,17288.0,1.00%,F,T)
 100% A1.40E8



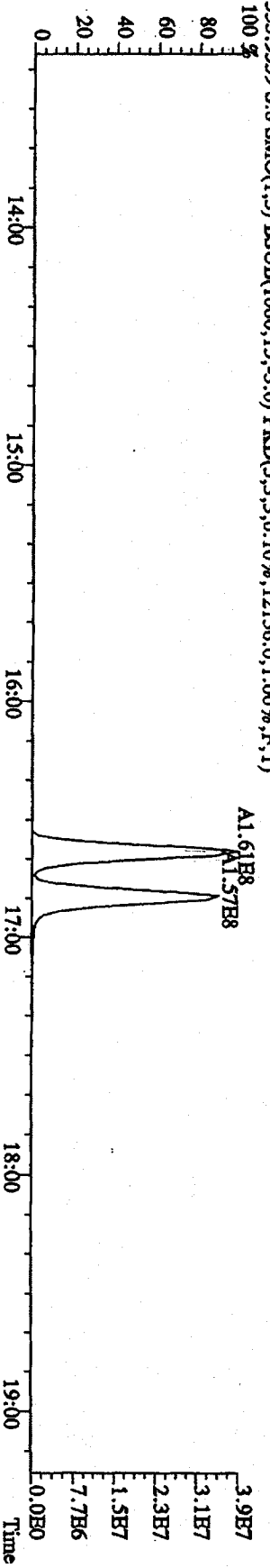
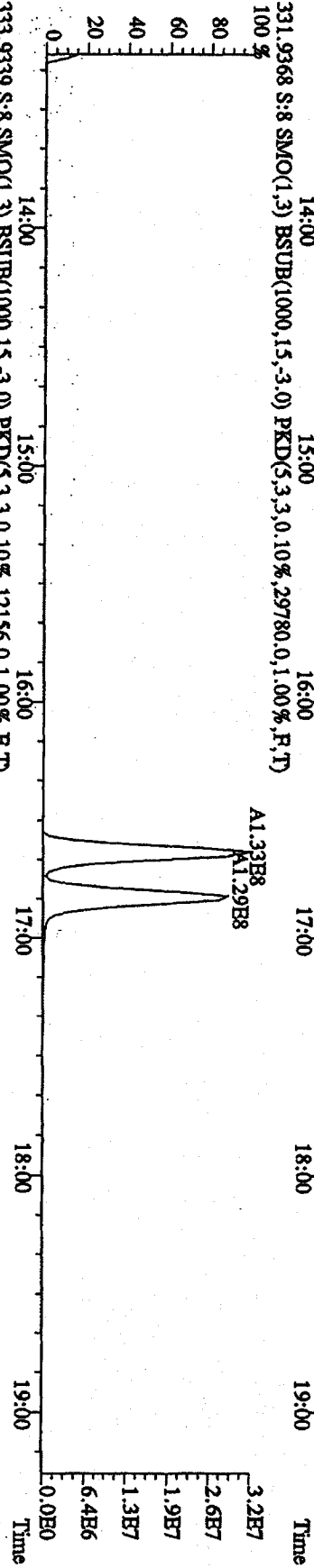
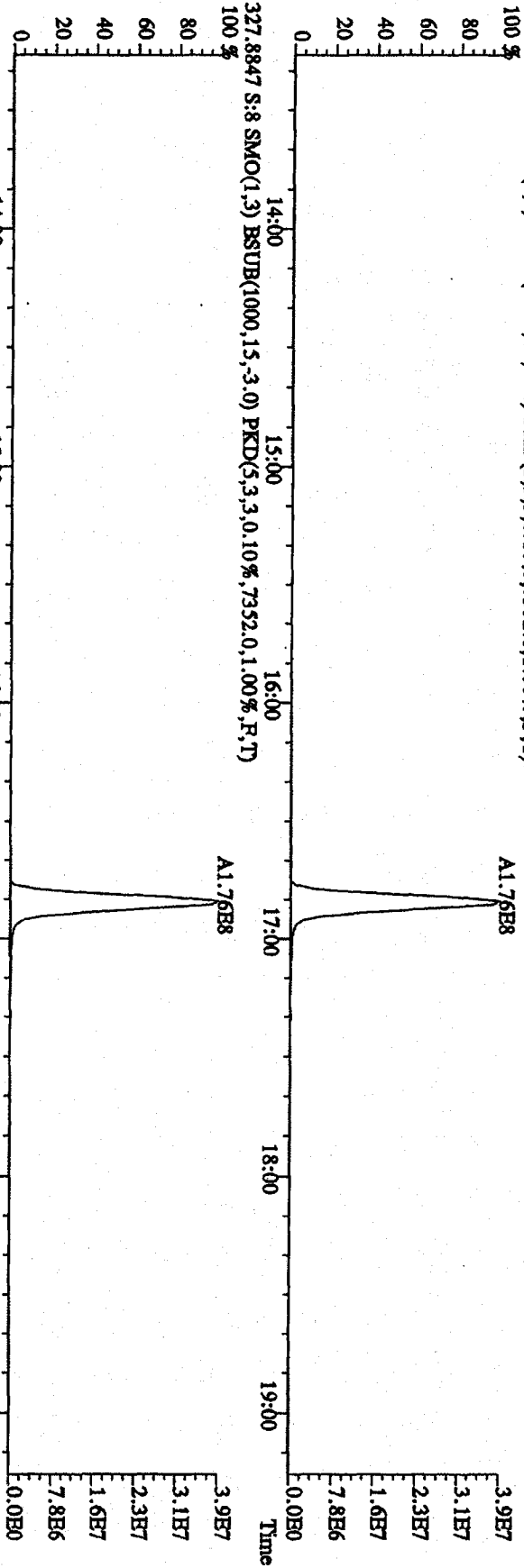
317.9389 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,16604.0,1.00%,F,T)
 100% A2.80E8

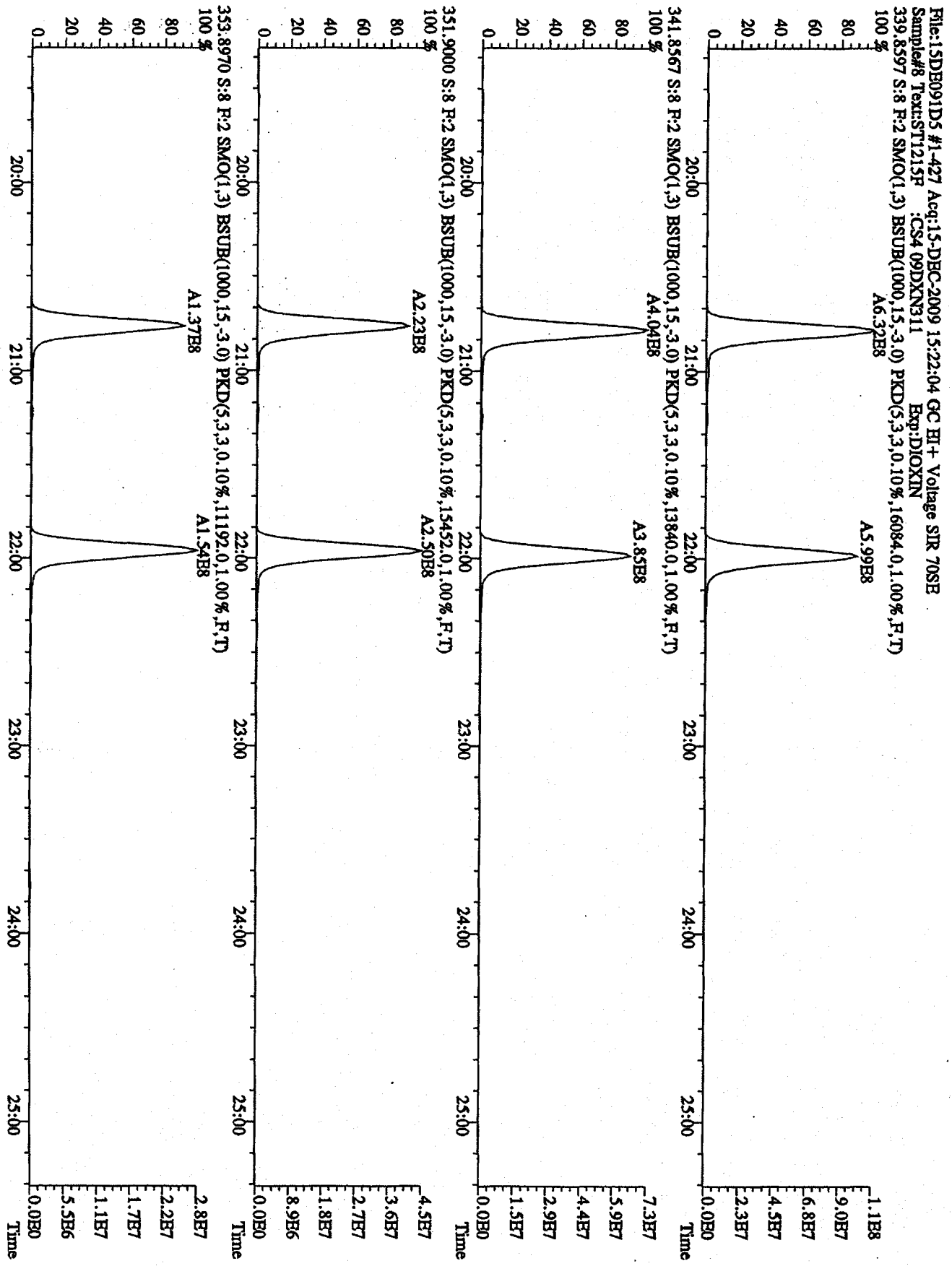


File:15DE091D5 #1-355 Acq:15-DEC-2009 15:22:04 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7296,0,1.00%,F,T)
 100 %

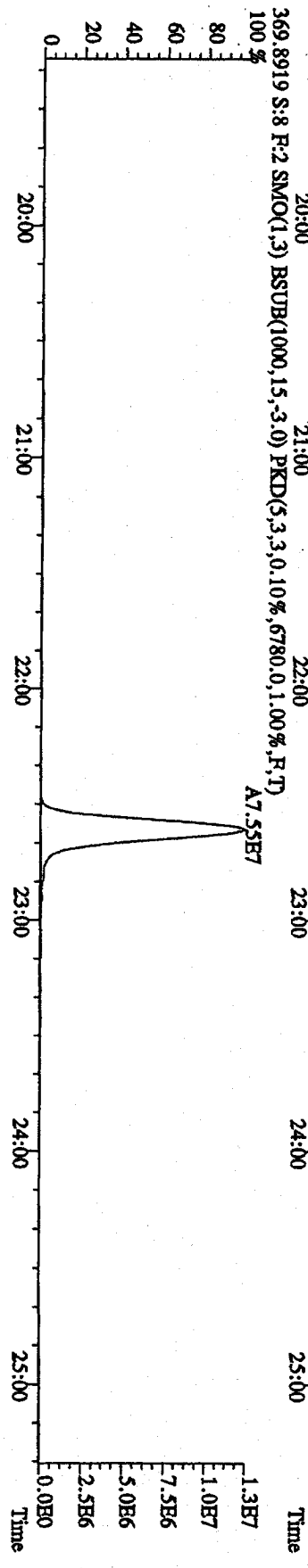
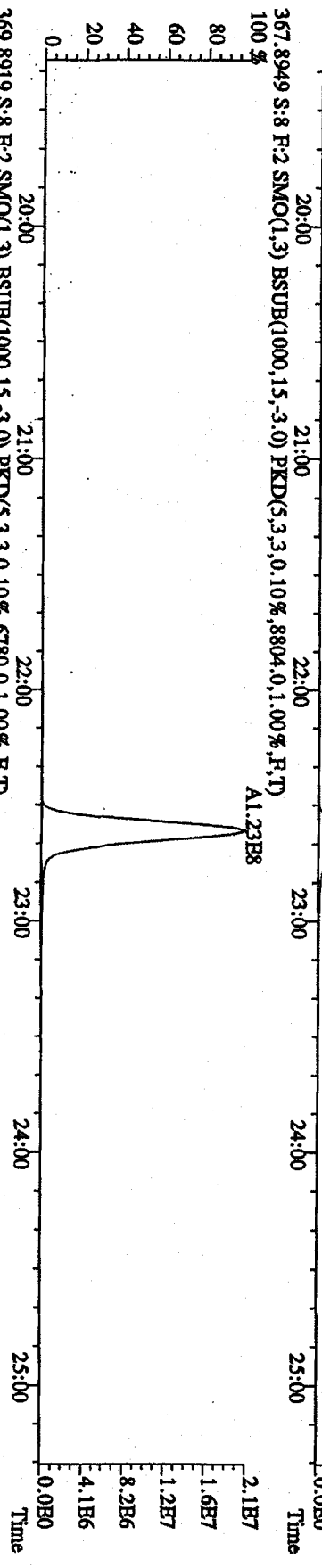
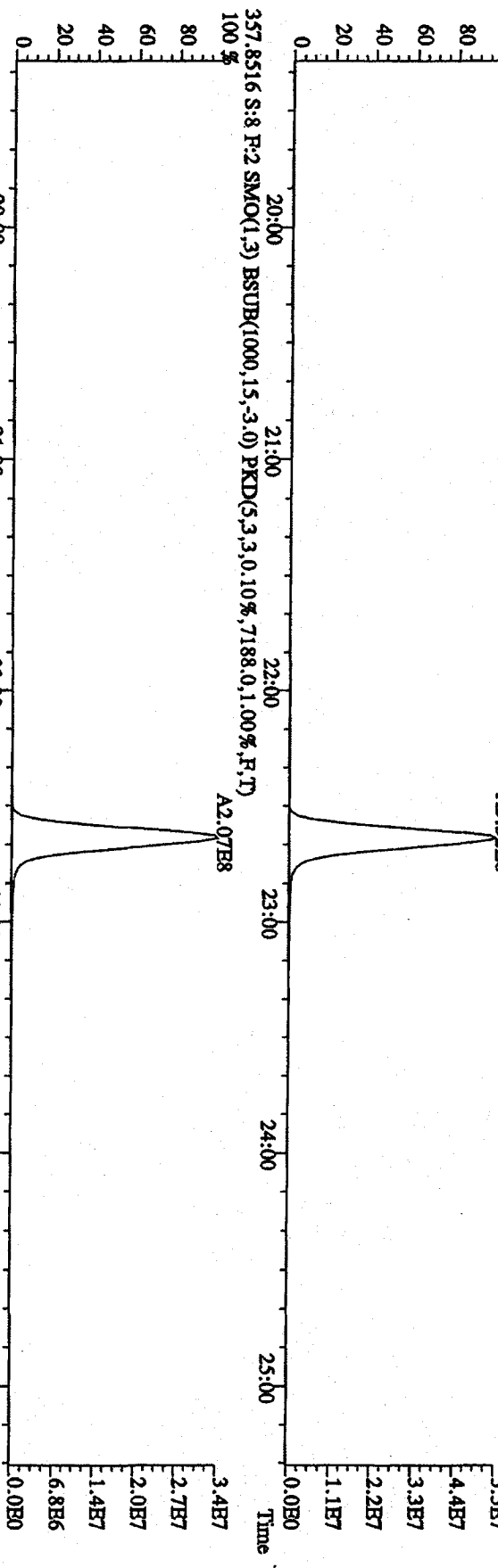


File: 15DBE091D5 #1-355 Acq: 15-DEC-2009 15:22:04 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1215F :CS4 09DXN311 Exp: DIOXIN
 327.8847 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7352.0,1.00%,F,T)

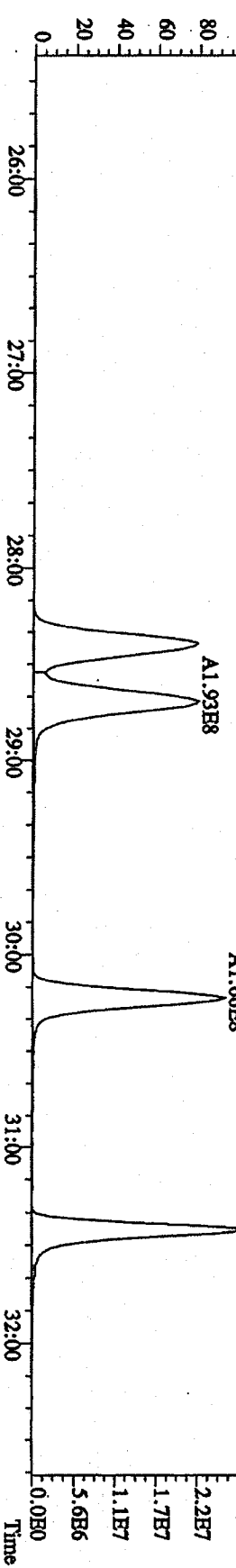
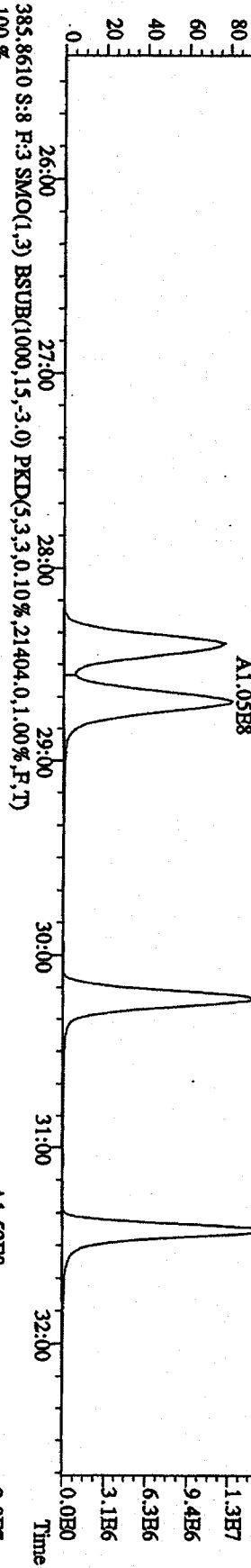
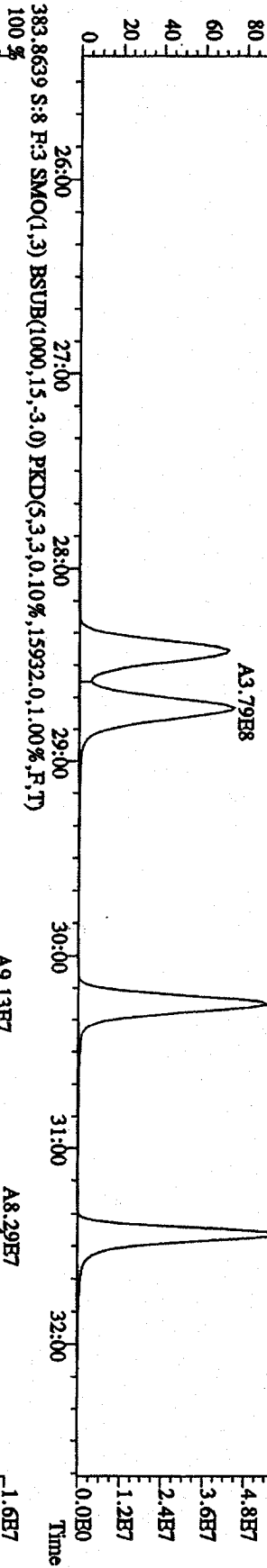
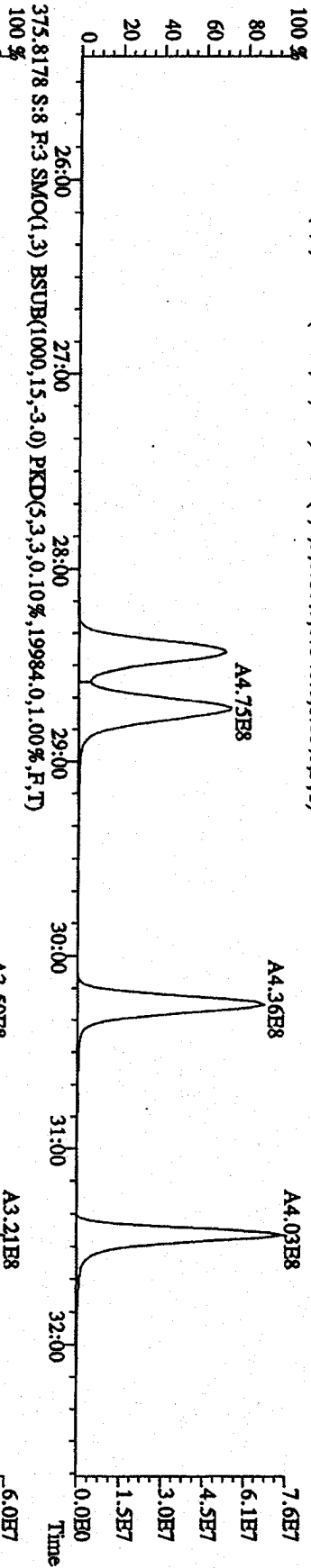




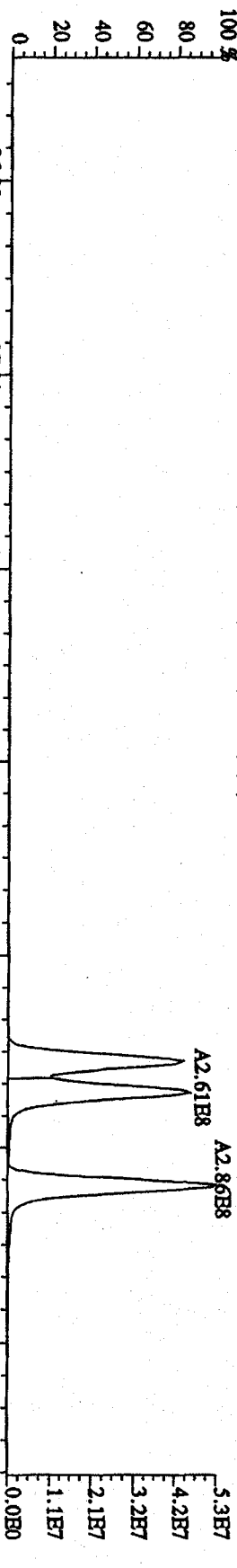
File:15DE091D5 #1-427 Acq:15-DEC-2009 15:22:04 GC BI+ Voltage SIR 70SE
 Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN
 355.8546 S:8 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,7568,0,1,00%,F,T)
 100 %



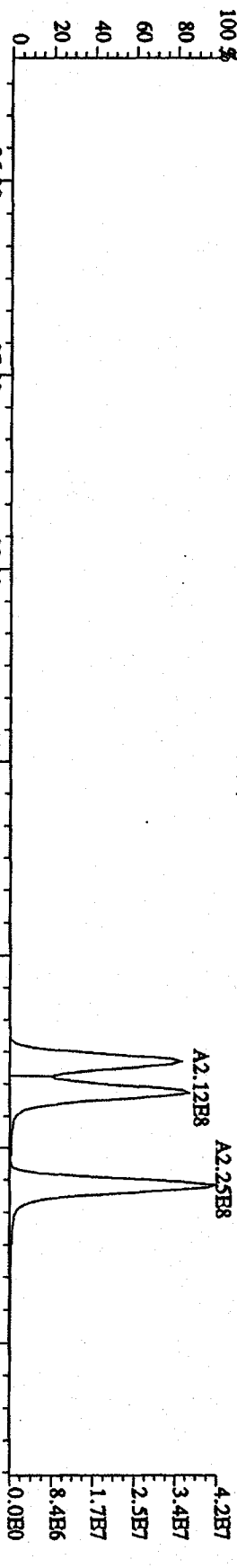
File:15DE091D5 #1-492 Acq:15-DEC-2009 15:22:04 GC HI + Voltage SIR 70SE
 Sample#8 Text:5T1215F :CS4 09DXN311 Exp:DIOXIN
 373.8208 S:8 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,67348,0.1,00%,F,T)



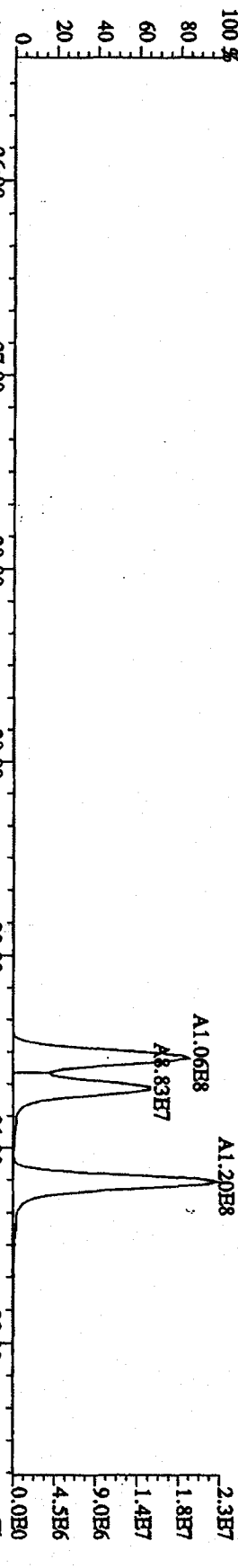
File:15DEB091D5 #1-492 Acq:15-DEC-2009 15:22:04 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN
 389.8157 S:8 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,4244,0,1,00%,F,T) 100%



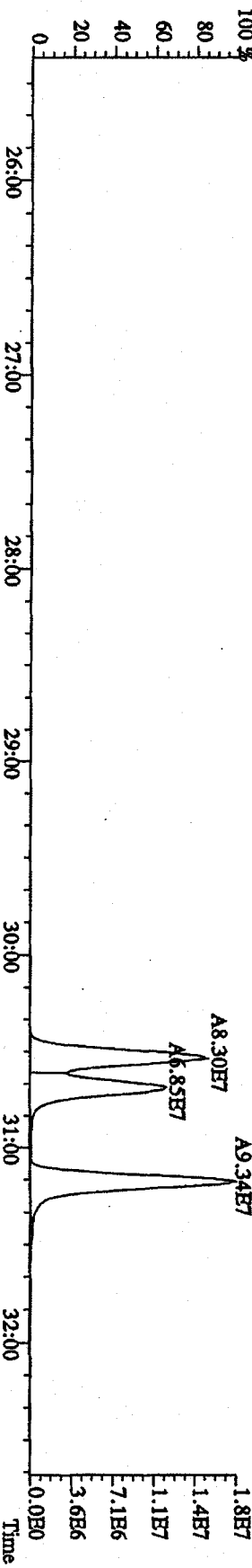
391.8127 S:8 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,5456,0,1,00%,F,T) 100%



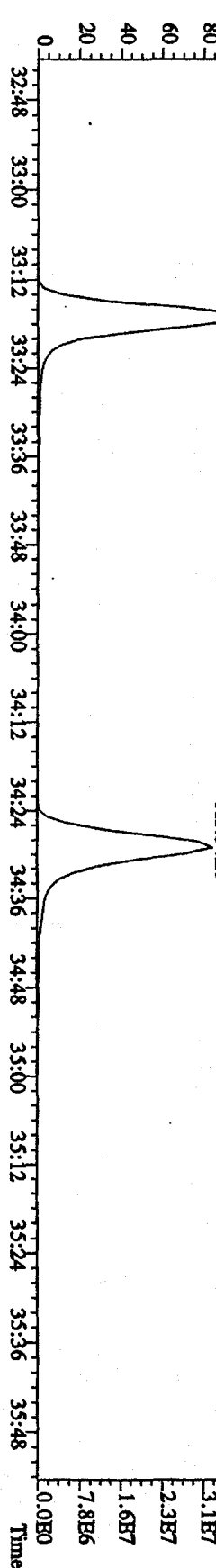
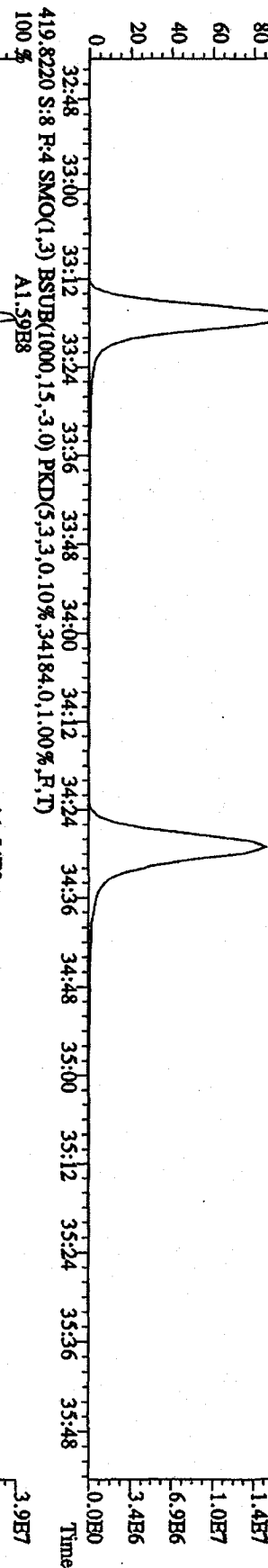
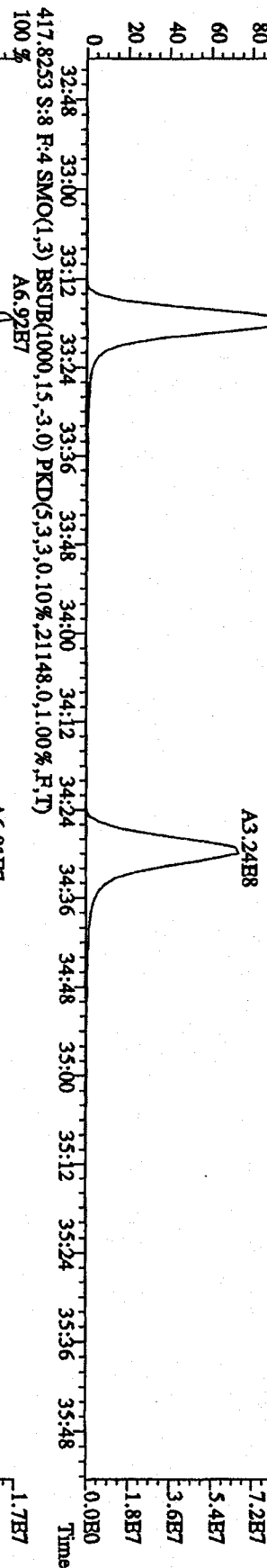
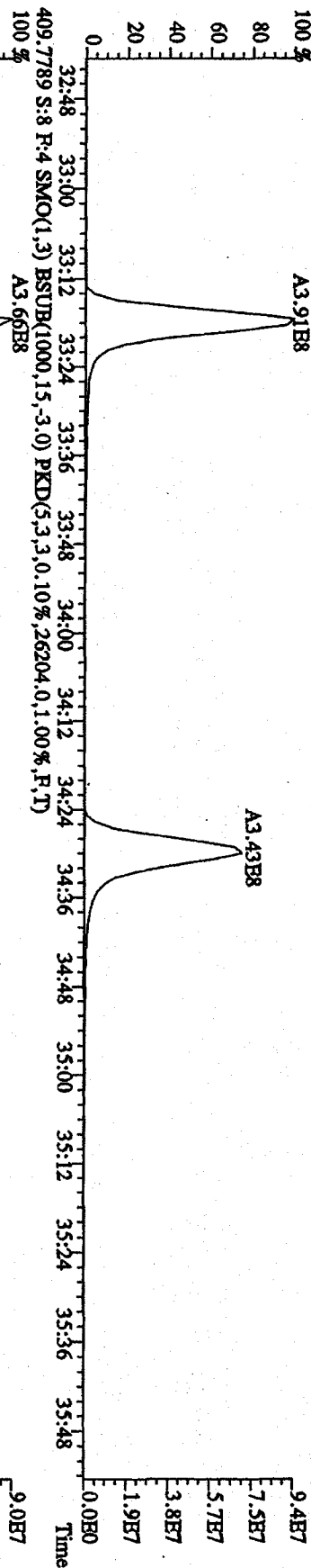
401.8559 S:8 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,5776,0,1,00%,F,T) 100%



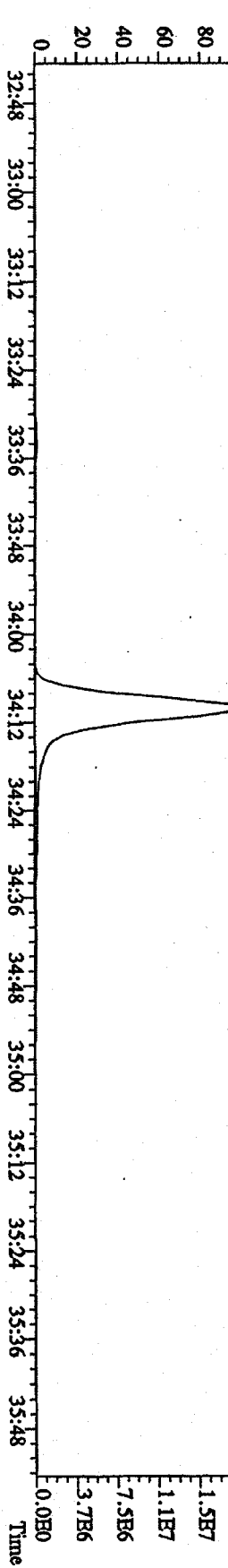
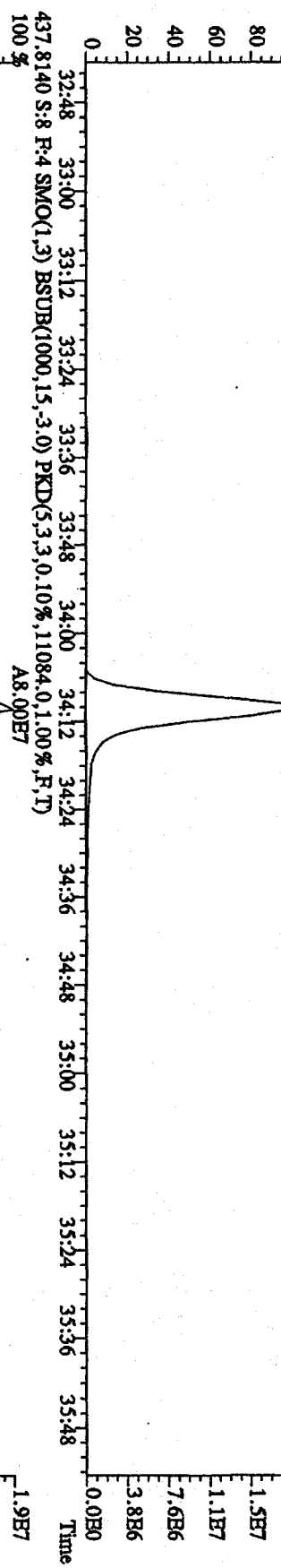
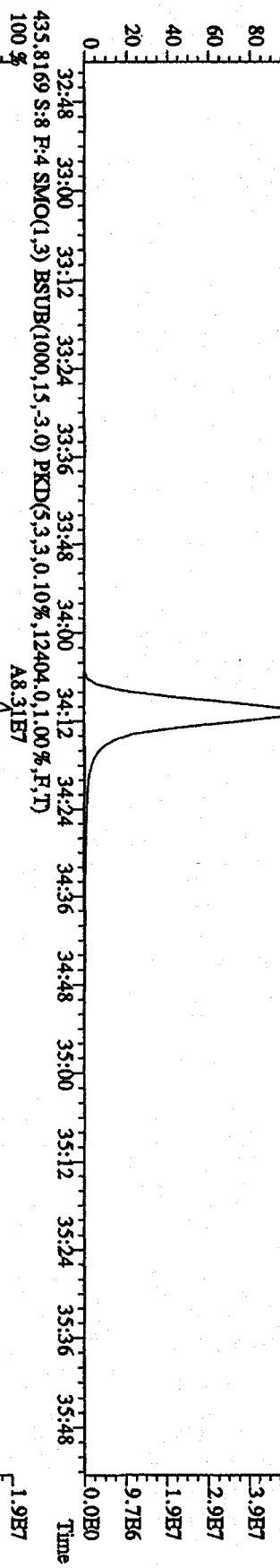
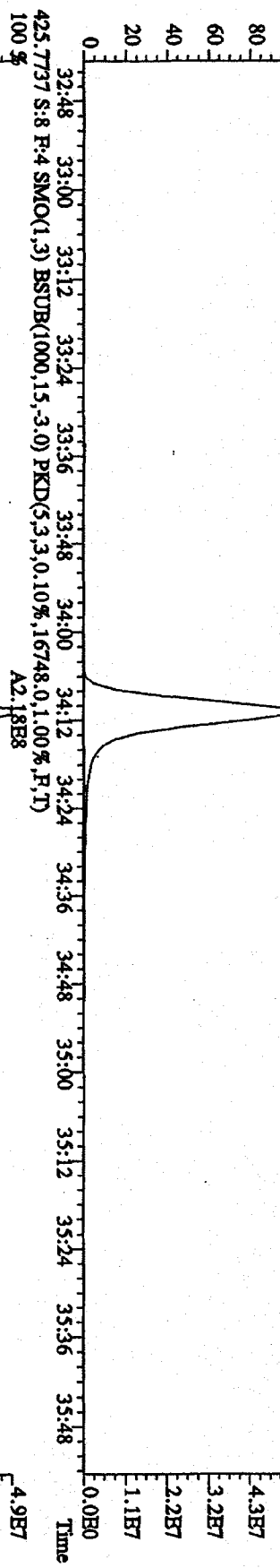
403.8529 S:8 F:3 SMO(1,3) BSUB(1000,15,3,0) PKD(5,3,3,0,10%,6528,0,1,00%,F,T) 100%



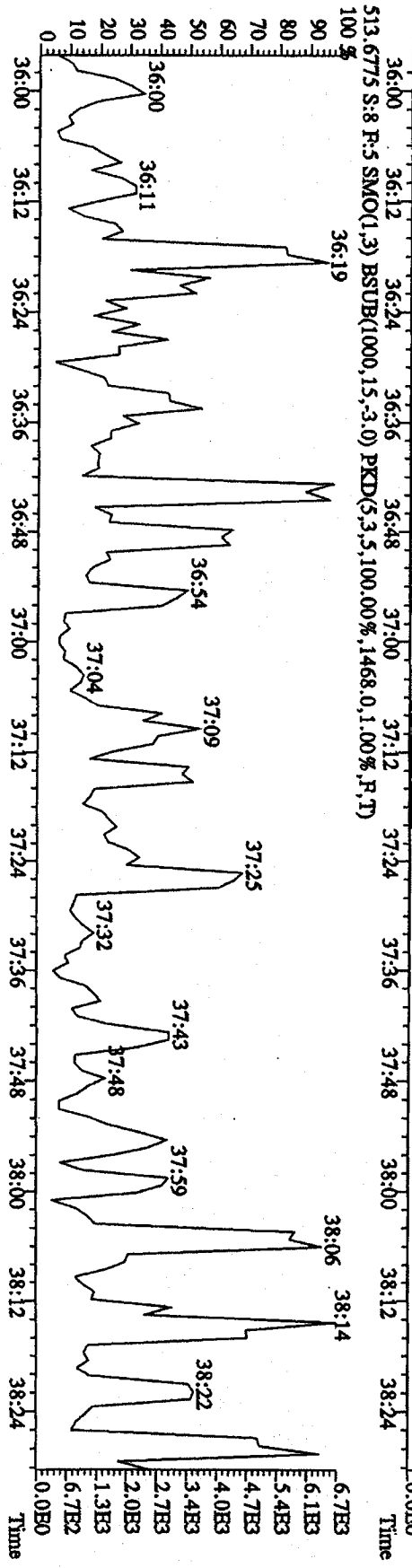
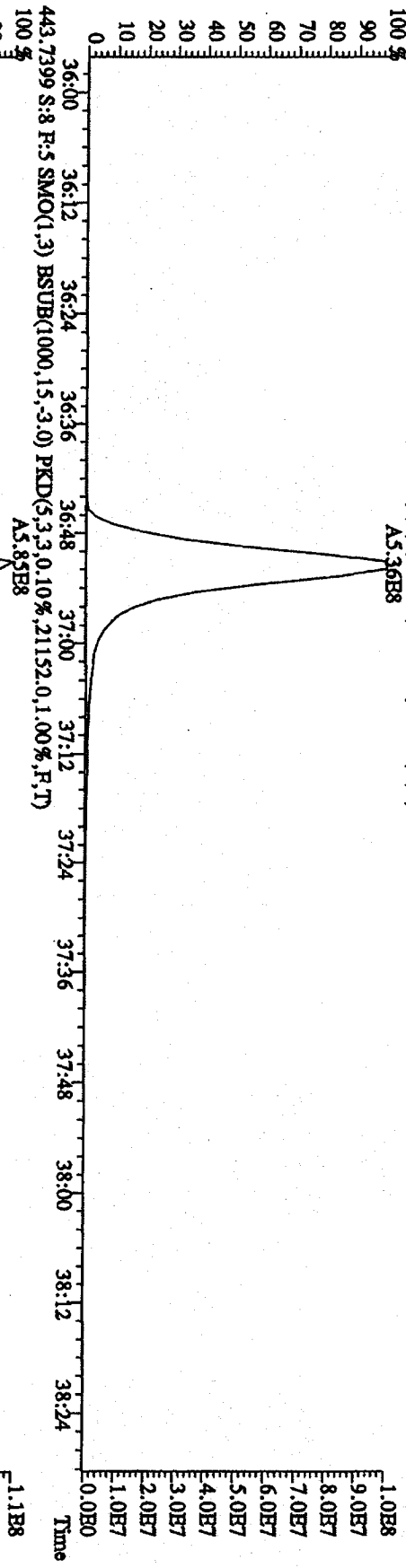
File:15DE091D5 #1-226 Acq:15-DEC-2009 15:22:04 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1215R :CS4 09DXN311 Exp:DIOXIN
 407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,27692,0,1,00%,F,TD)
 100%



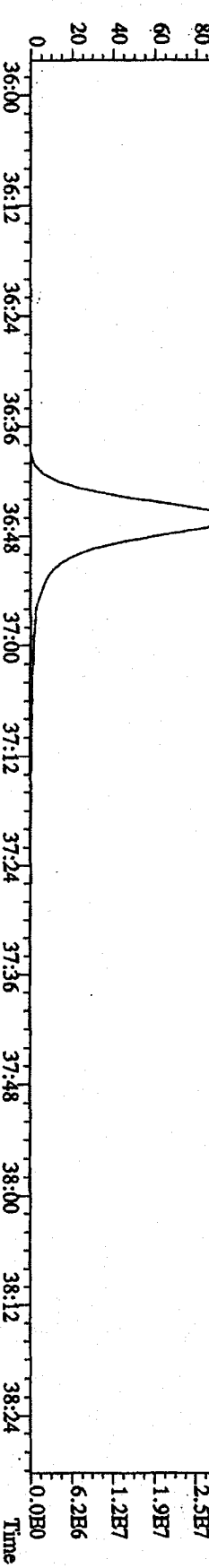
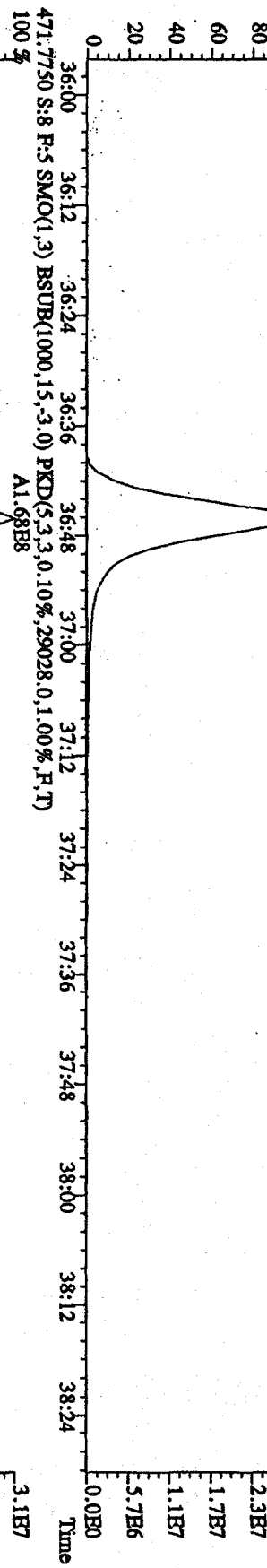
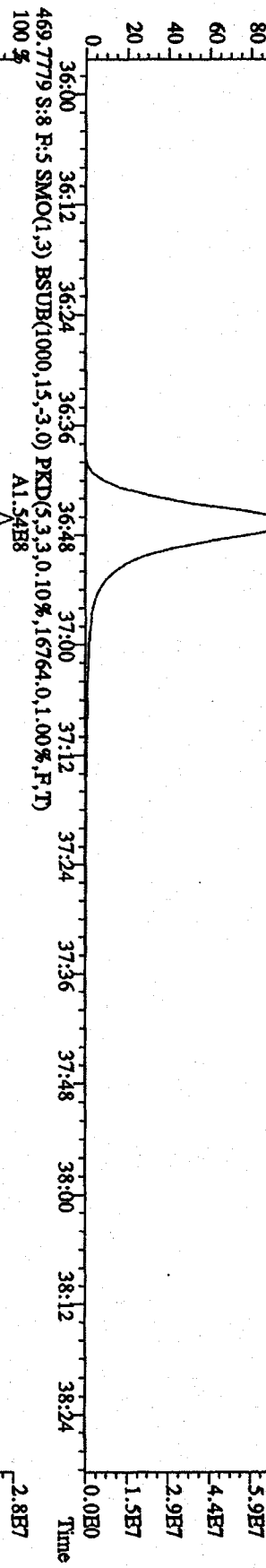
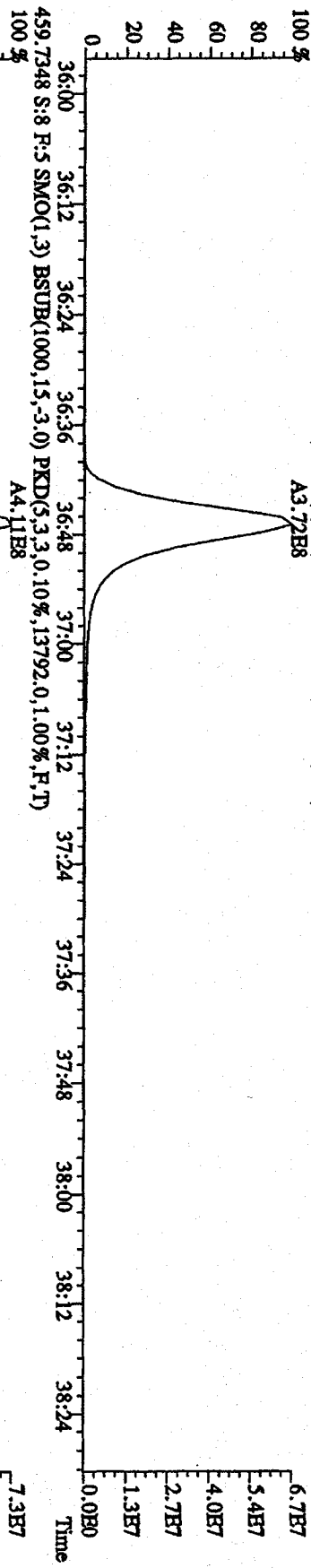
File:15DE091D5 #1-226 Acq:15-DEC-2009 15:22:04 GC HI+ Voltage SIR 70SE
 Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN
 423.7766 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15900,0,1,00%,F,T)
 100 % A2.40E8



File: 15DB091D5 #1-186 Acq: 15-DEC-2009 15:22:04 GC EI+ Voltage SIR 70SE
 Sample#8 Text: ST1215F :CS4 09DXN311 Exp: DIOXIN
 441.7428 S:8 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,21416.0,1.00%,F,T)
 100% A5.36E8

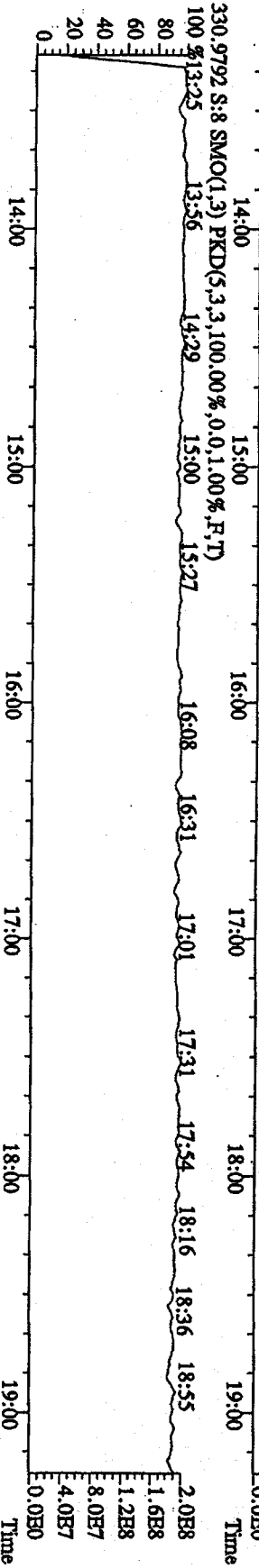
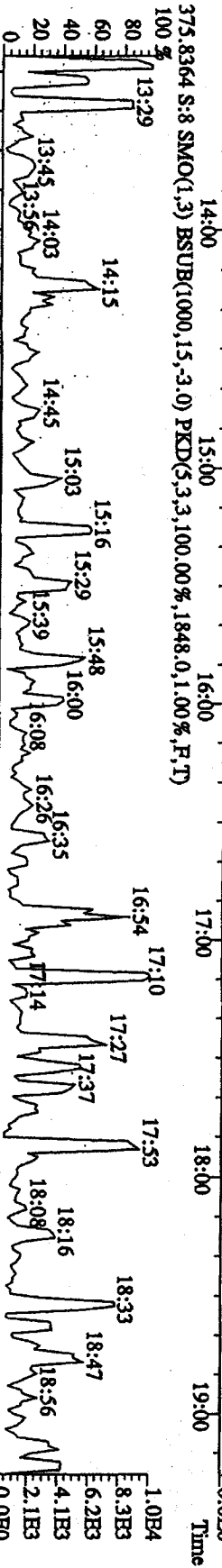
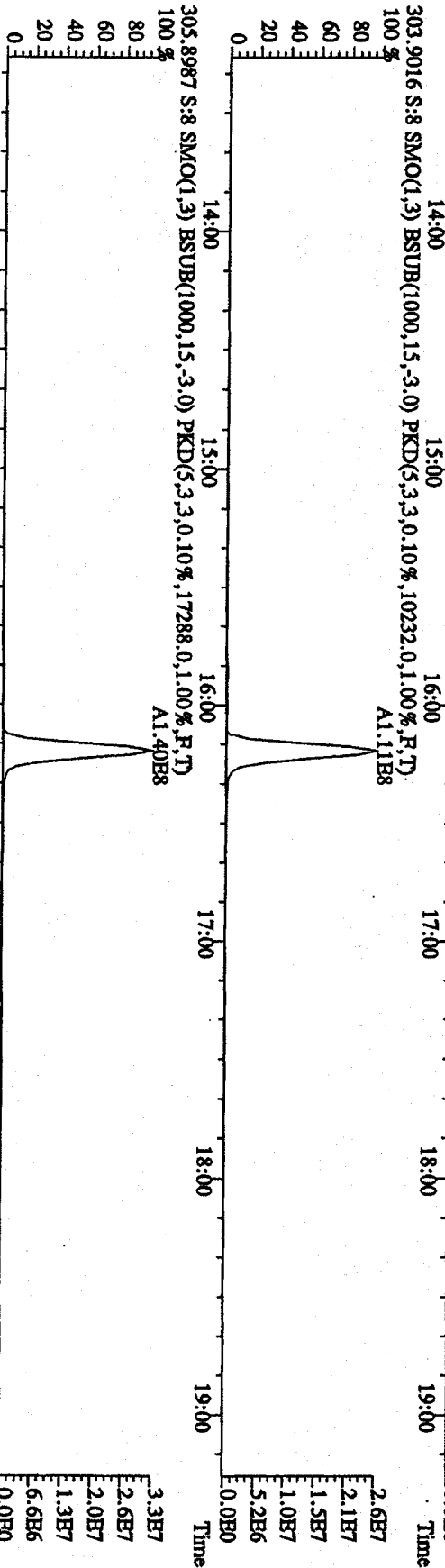
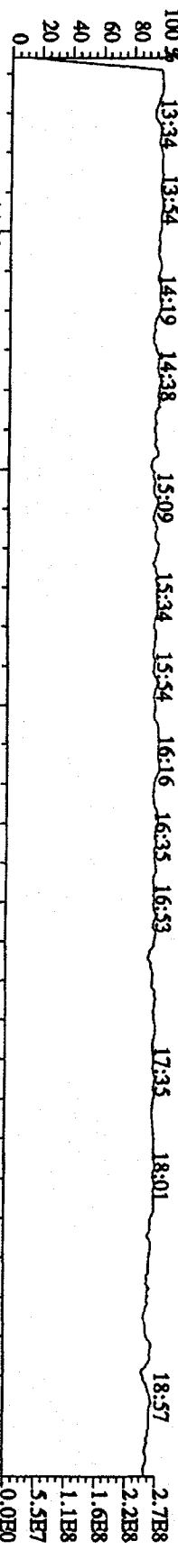


File:15DE091D5 #1-186 Acq:15-DEC-2009 15:22:04 GC HI+ Voltage SIR 70SE
 Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN
 457.7377 S:8 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,16920,0.1,00%,F,T)
 100 % A3.72E8



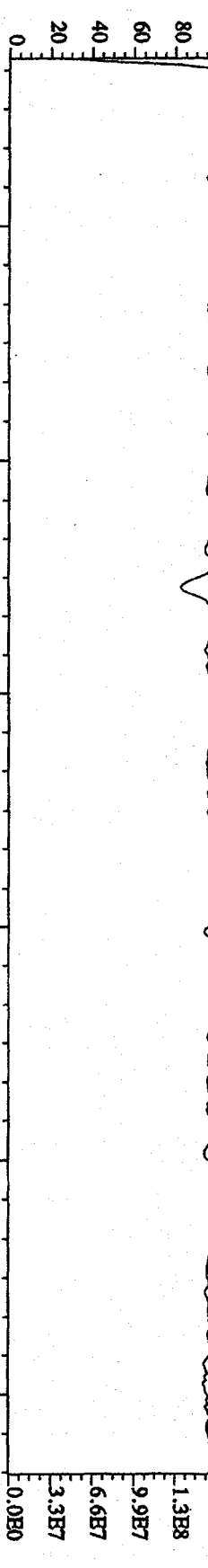
File:13DE091D5 #1-355 Acq:15-DEC-2009 15:22:04 GC EI + Voltage SIR 70SE

Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN

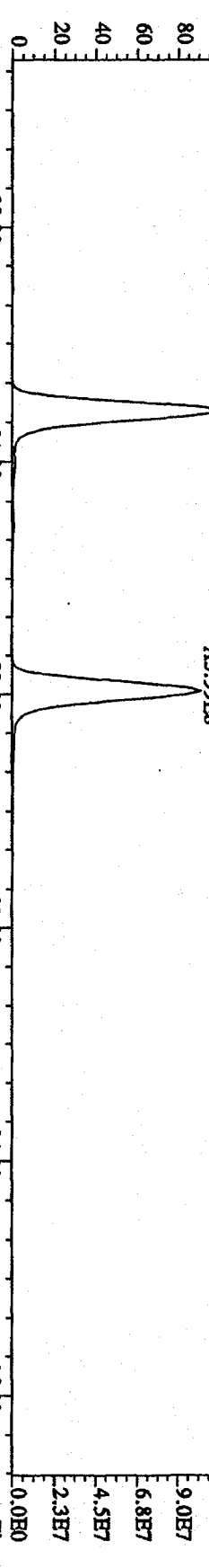


File:15DBE091D5 #1-427 Acq:15-DEC-2009 15:22:04 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN

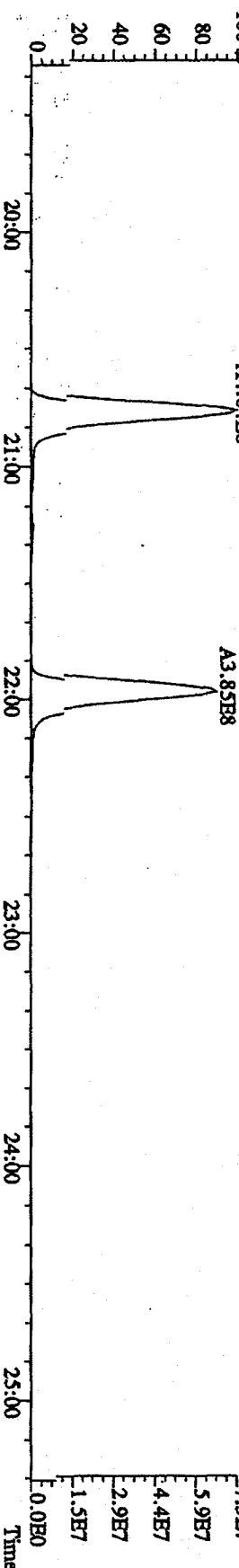
342.9792 S:8 F:2 SMO(1.3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



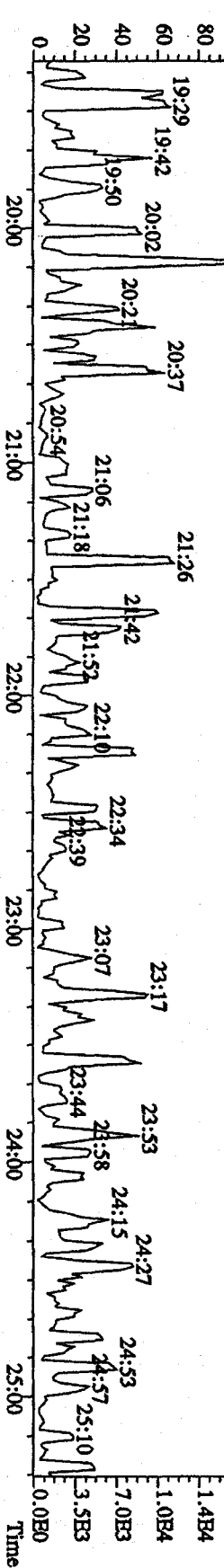
339.8597 S:8 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16084,0.1,0.00%,F,T)



341.8567 S:8 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,13840,0.1,0.00%,F,T)

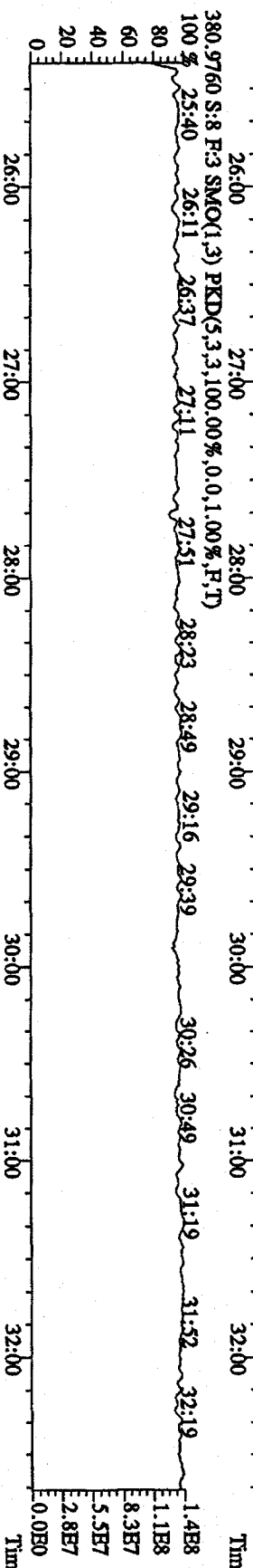
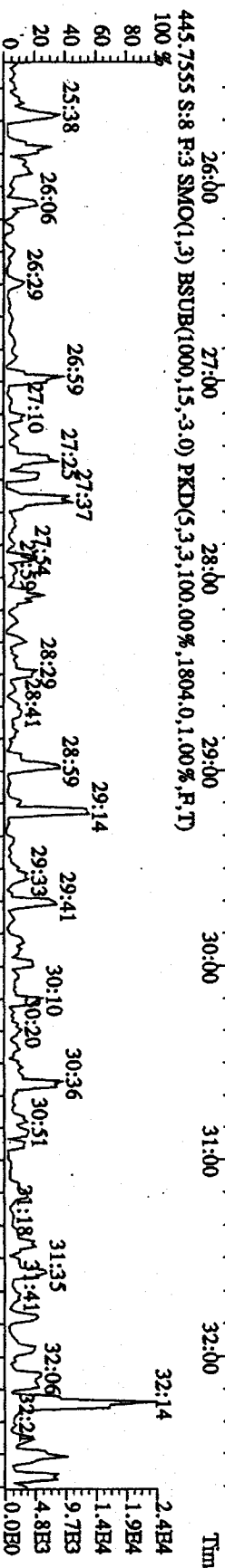
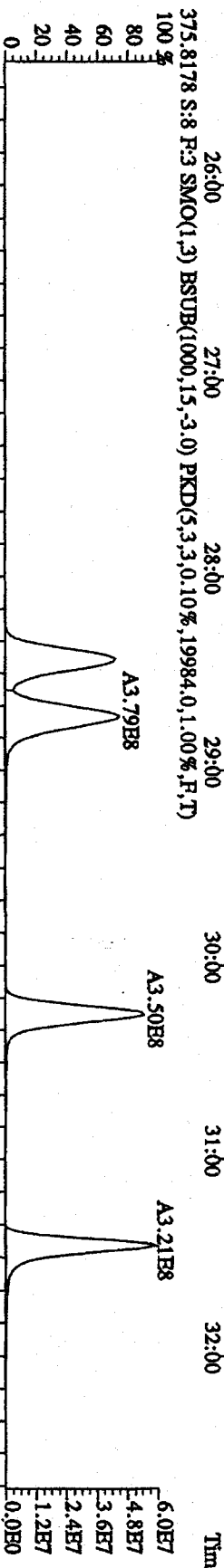
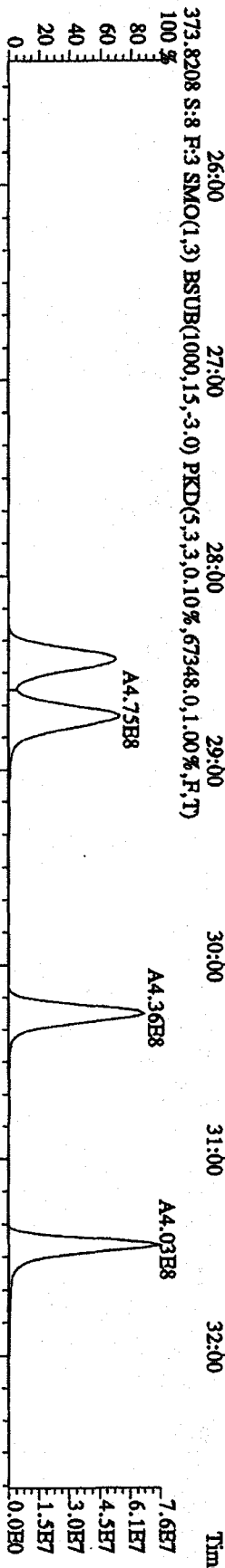
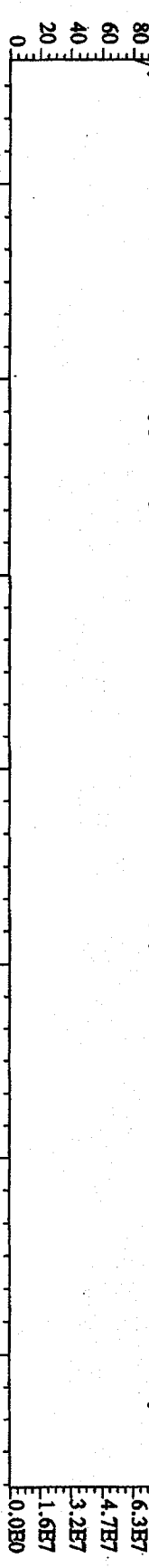


409.7974 S:8 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,16400,0.1,0.00%,F,T)



File:15DB091D5 #1-492 Acq:15-DEC-2009 15:22:04 GC EI+ Voltage SIR 70SE

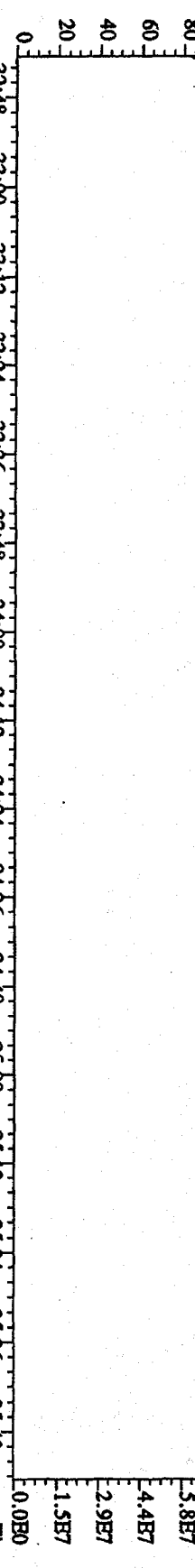
Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN



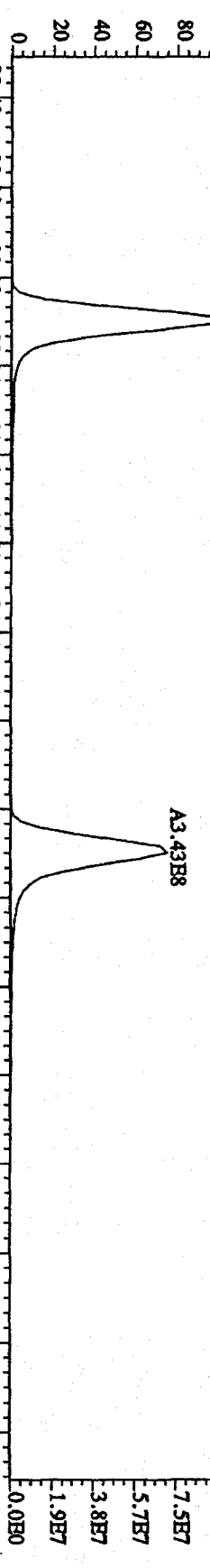
File:15DE091D5 #1-226 Acq:15-DEC-2009 15:22:04 GC EI+ Voltage SIR 70SE

Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN

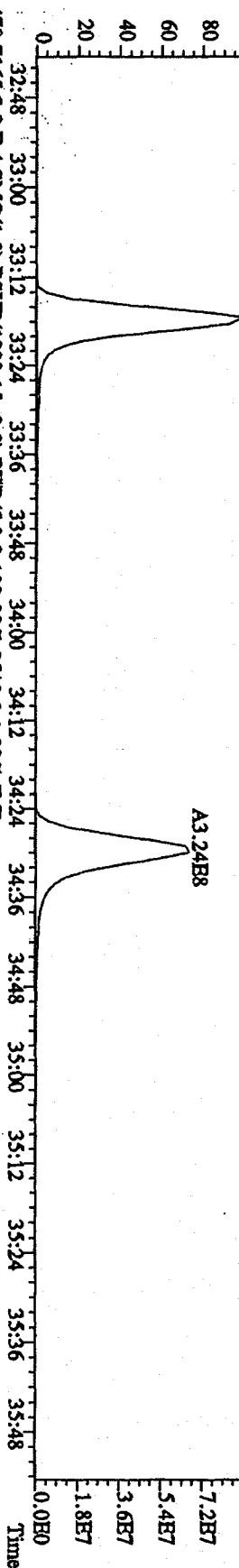
430.9728 S:8 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



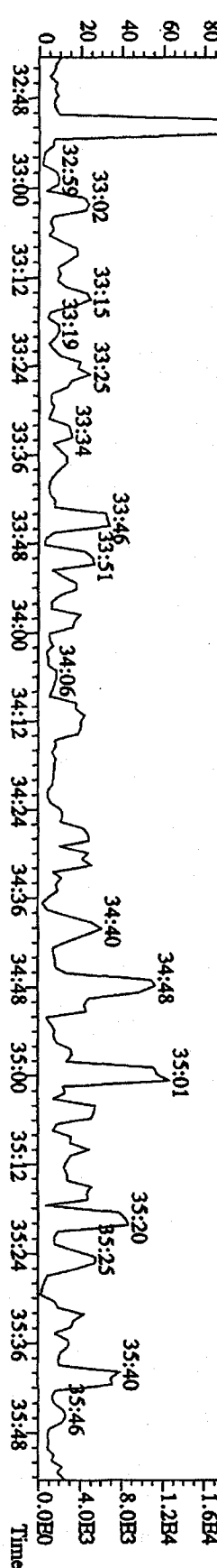
407.7818 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,27692.0,1.00%,F,T)



409.7789 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,26204.0,1.00%,F,T)



479.7165 S:8 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2512.0,1.00%,F,T)

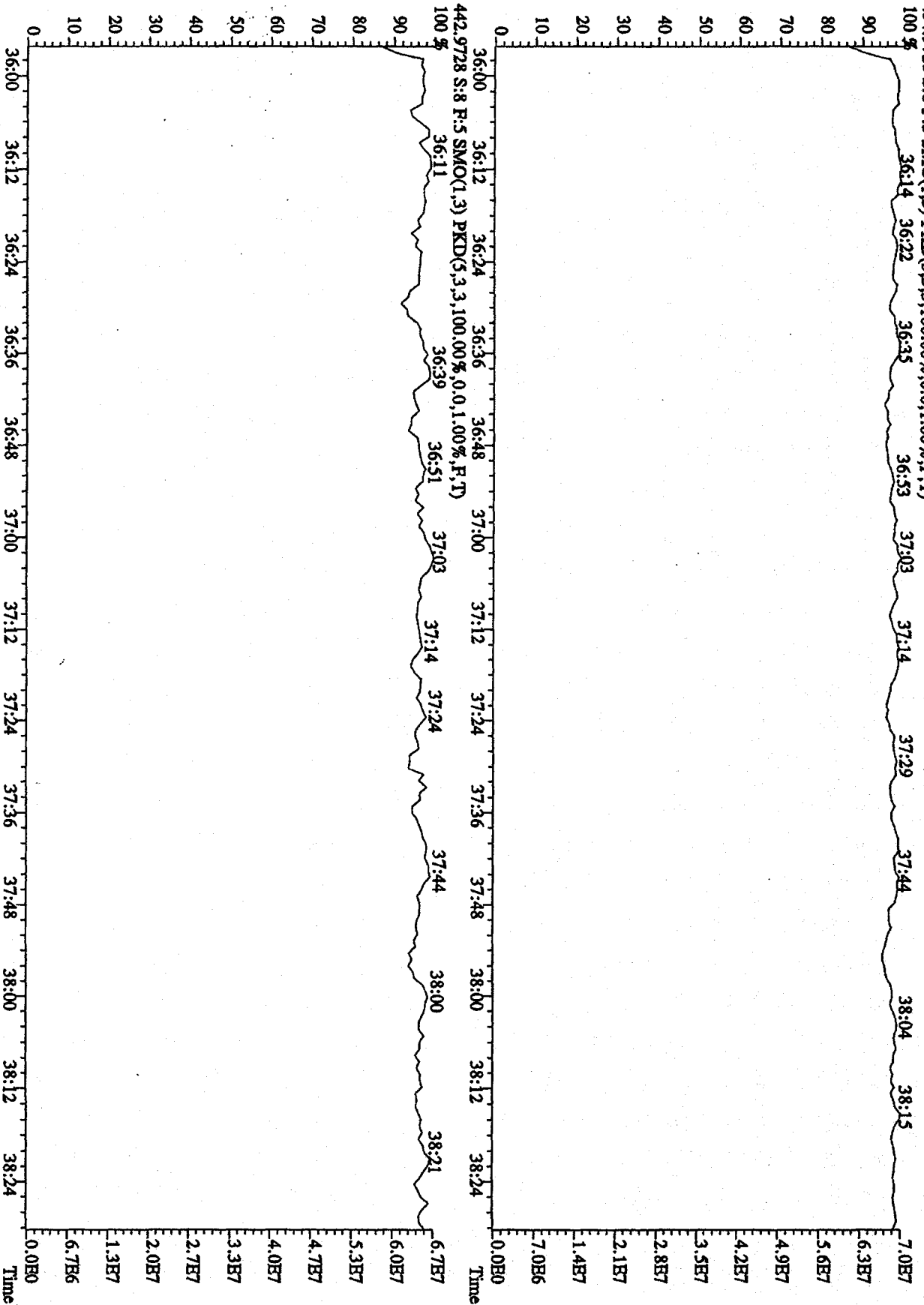


File:15DB091D5 #1-186 Acq:15-DEC-2009 15:22:04 GC HI+ Voltage SIR 70SB

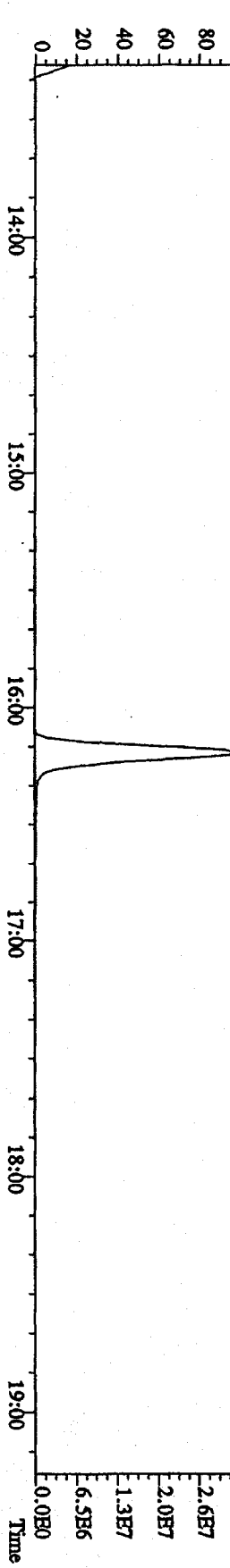
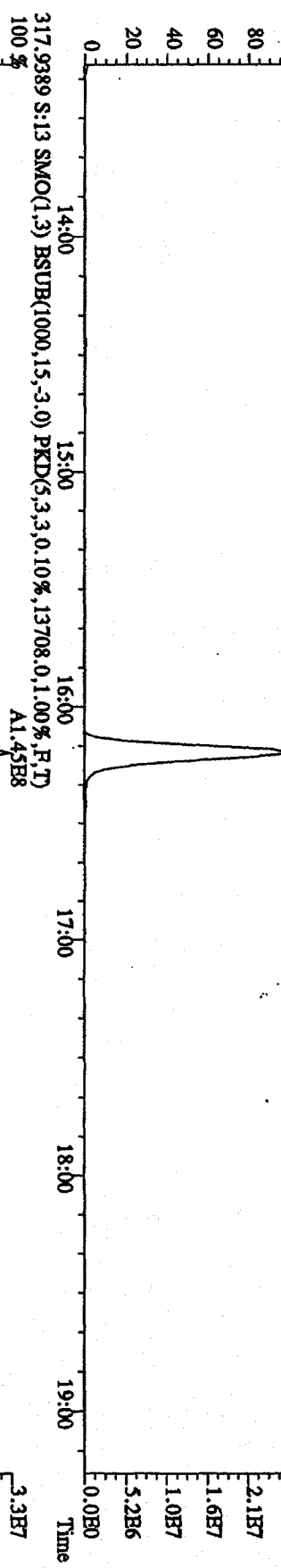
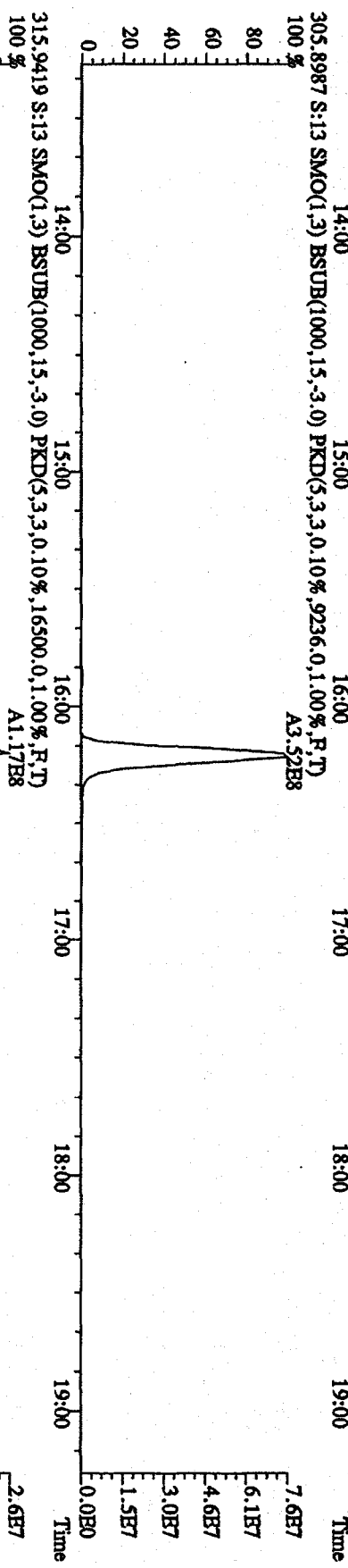
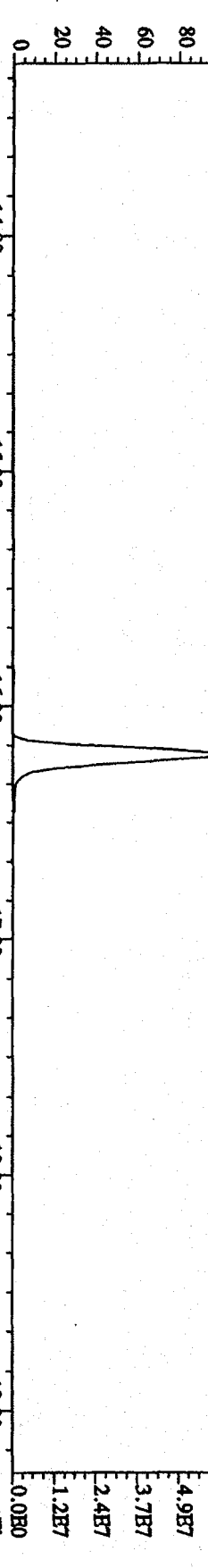
Sample#8 Text:ST1215F :CS4 09DXN311 Exp:DIOXIN

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

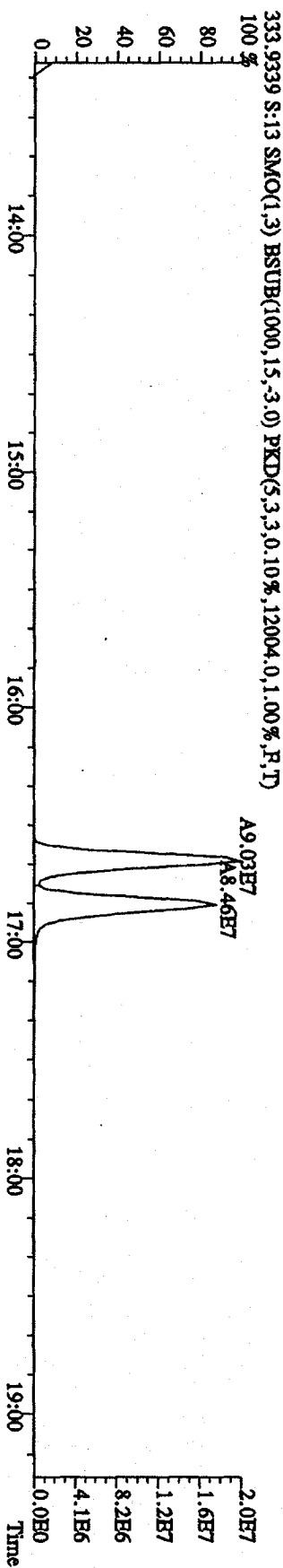
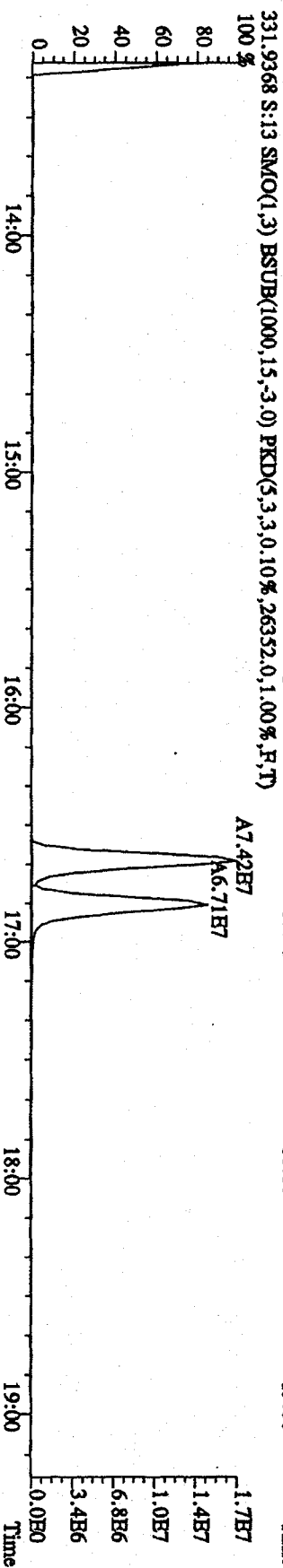
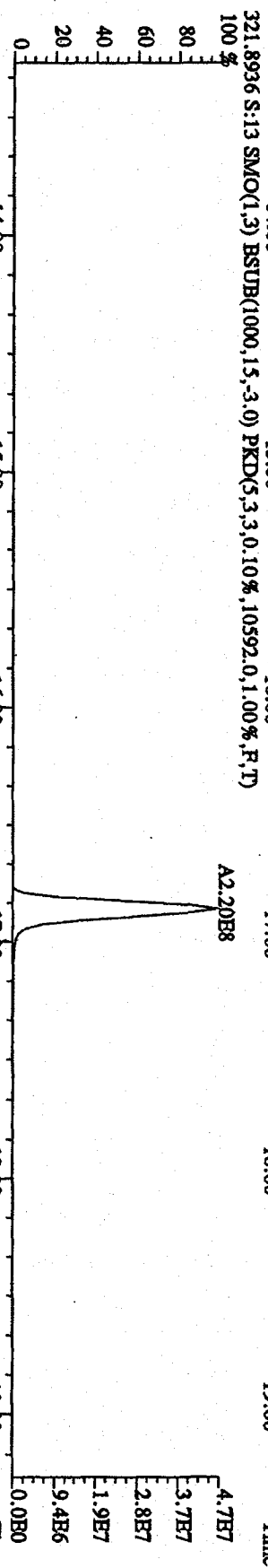
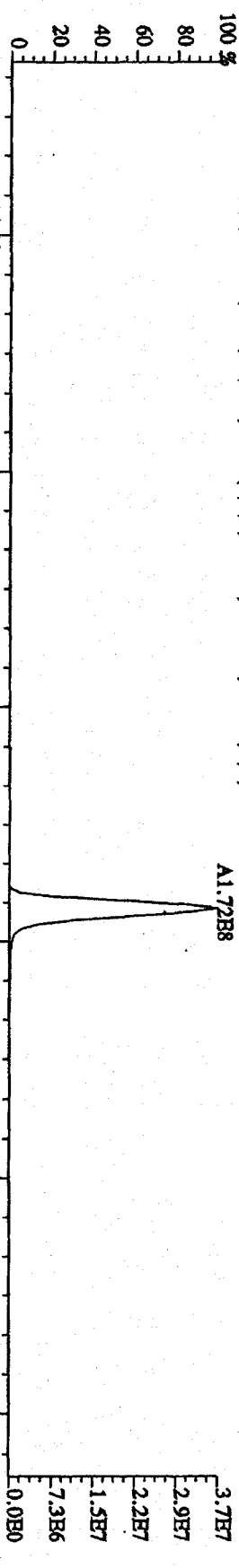
100%



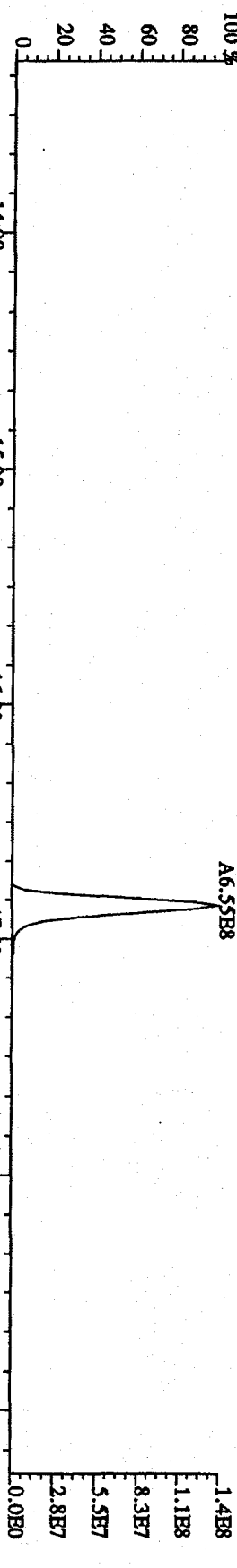
File:15DB091D5 #1-355 Acq:15-DEC-2009 18:51:14 GC EI+ Voltage SIR 70SE
 Sample#13 Text:ST1215K :CSS 09DXN412 Exp:DIOXIN
 303.9016 S:13 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8012,0,1,00%,F,T)
 100% A2.80E8



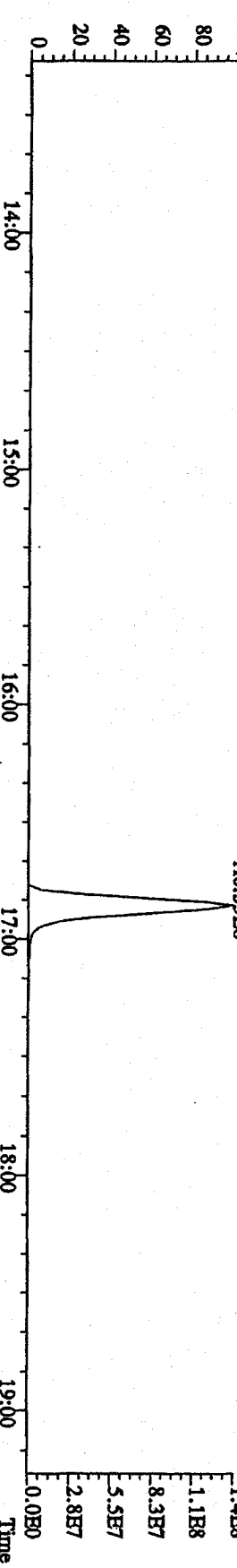
File:15DE091D5 #1-355 Acq:15-DEC-2009 18:51:14 GC EI+ Voltage SIR 70SE
 Sample#13 Text:ST1215K :CSS 09DXN412 Exp:DIOXIN
 319.8965 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10380.0,1.00%,F,T)



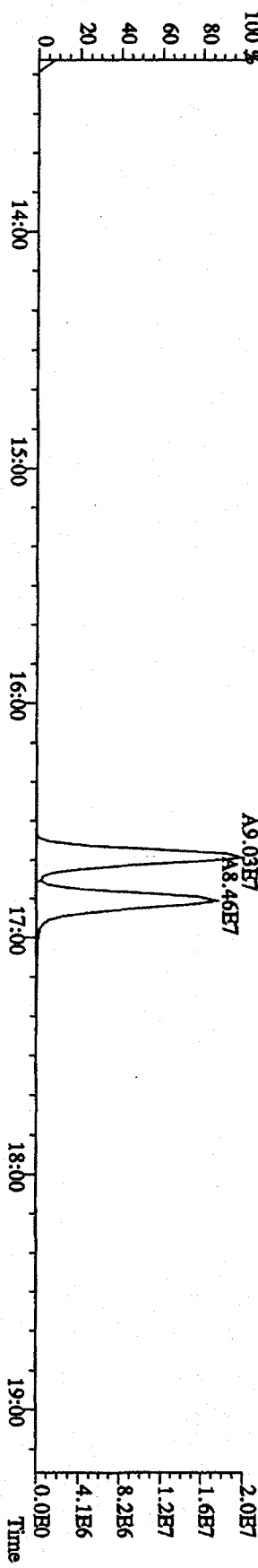
File:15DB091D5 #1-355 Acq:15-DEC-2009 18:51:14 GC HI+ Voltage SIR 70SE
 Sample#13 Text:ST1215K :CS5 09DDXN412 Exp:DIOXIN
 327.8847 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,6488,0,1.00%,F,T)



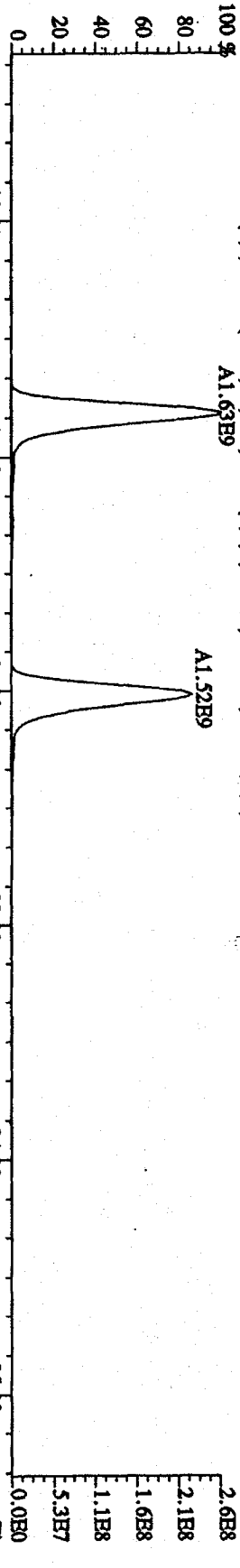
331.9368 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,26352,0,1.00%,F,T)



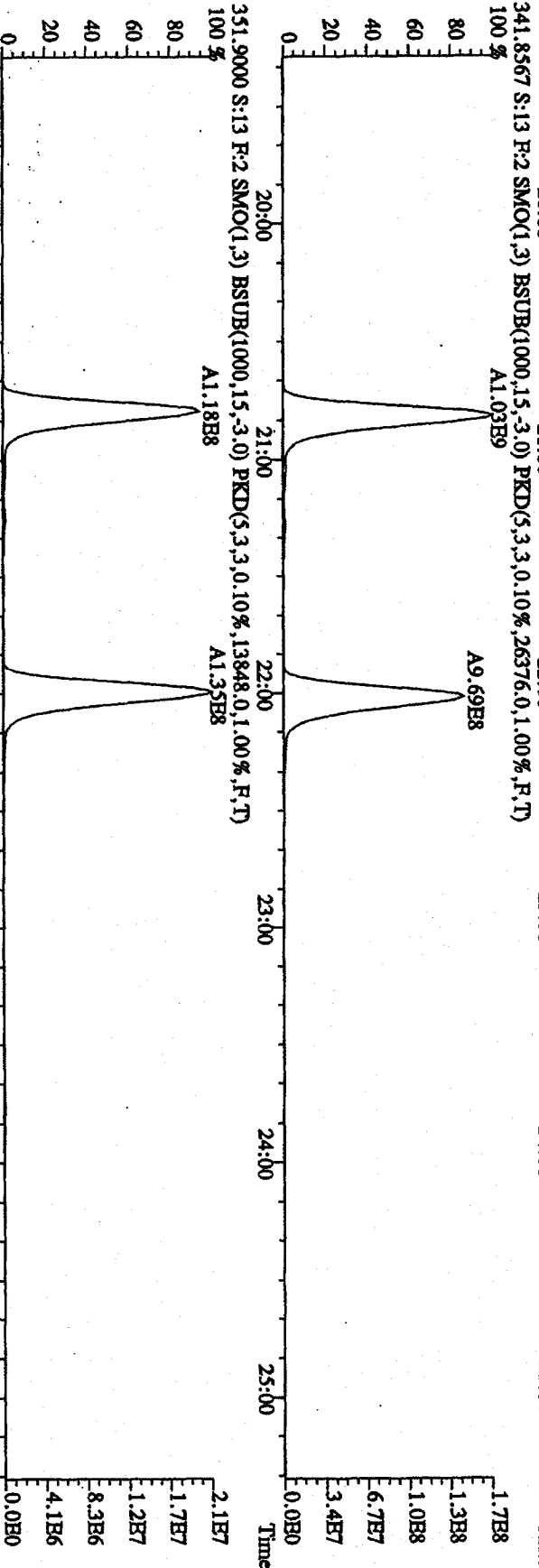
333.9339 S:13 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,12004,0,1.00%,F,T)



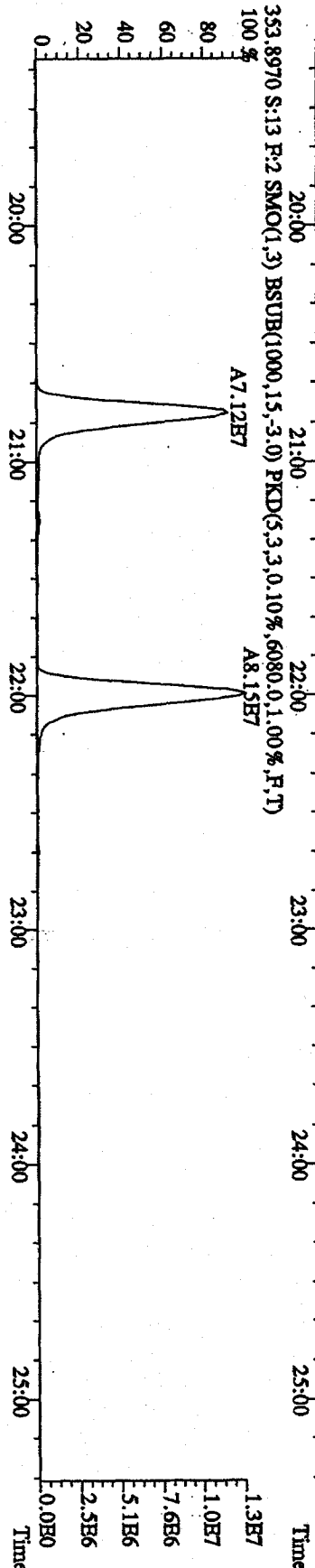
File:15DE091D5 #1-427 Acq:15-DEC-2009 18:51:14 GC EI+ Voltage SIR 70SE
 Sample#13 Text:ST1215K :CSS 09DXNA12 Exp:DIOXIN
 339.8597 S:13 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,26220,0,1,00%,F,T)



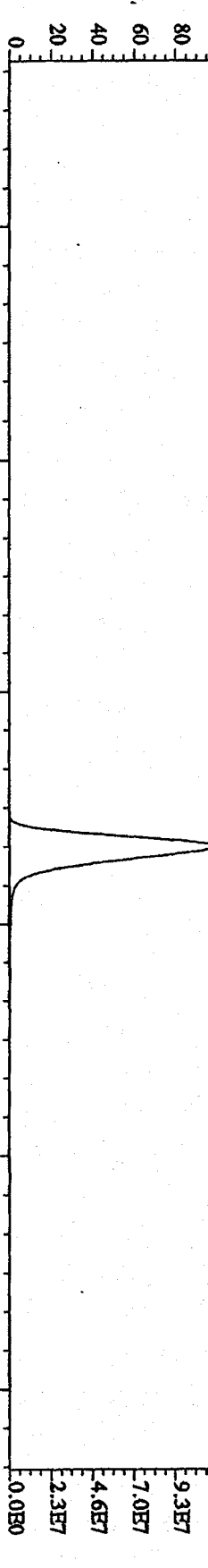
341.8567 S:13 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,26376,0,1,00%,F,T)



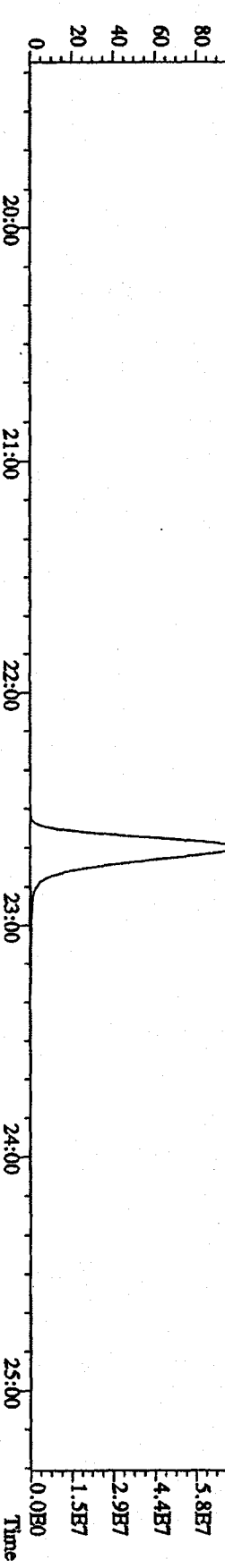
353.8970 S:13 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6080,0,1,00%,F,T)



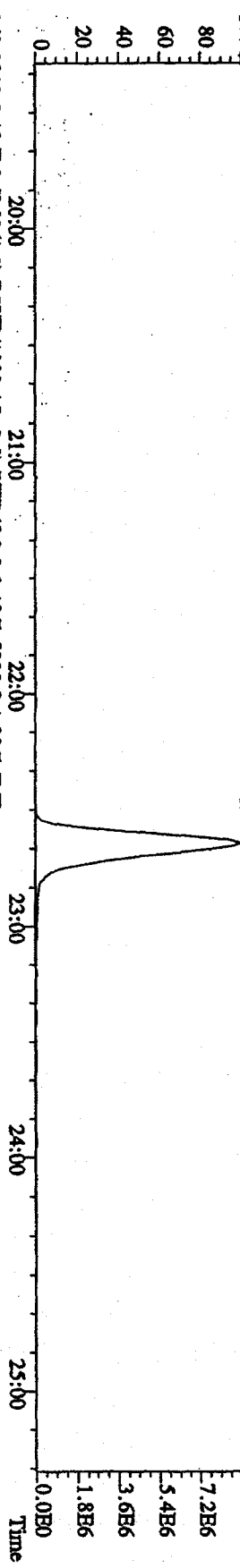
File:15DB091D5 #1-427 Acq:15-DEC-2009 18:51:14 GC HI + Voltage SIR 70SB
 Sample#13 Text:ST1215K :CS5 09DXN412 Exp:DIOXIN
 355.8546 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,15252,0,1,00%,F,T)



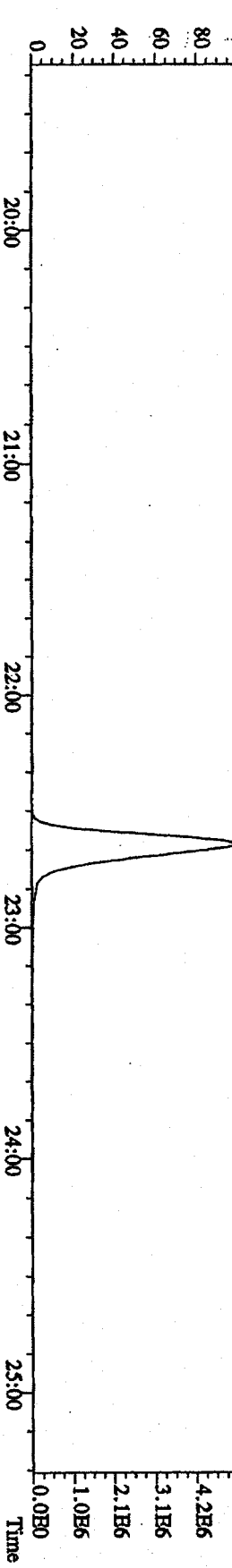
357.8516 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5916,0,1,00%,F,T)



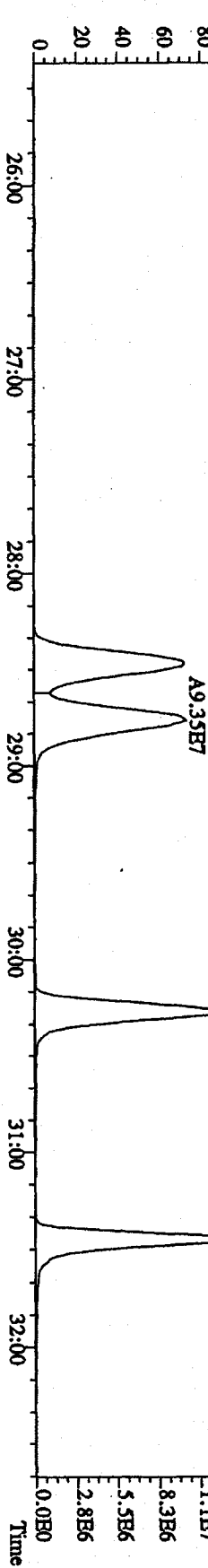
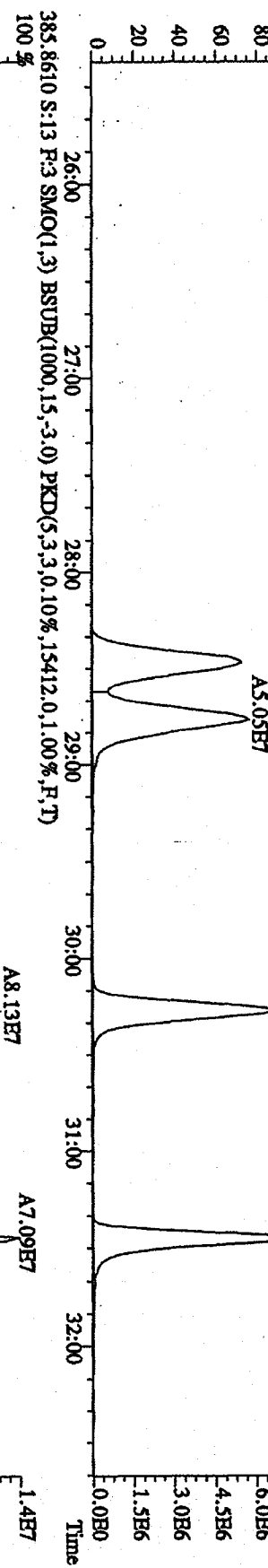
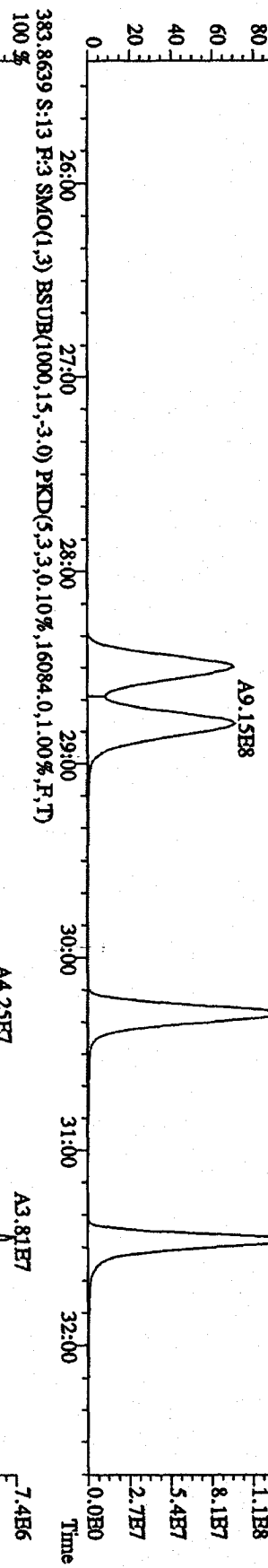
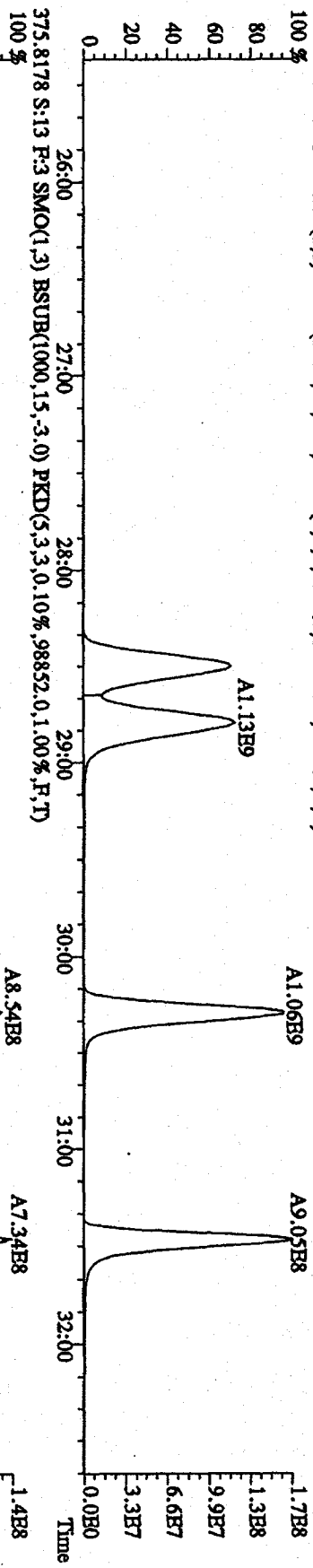
367.8949 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,7976,0,1,00%,F,T)



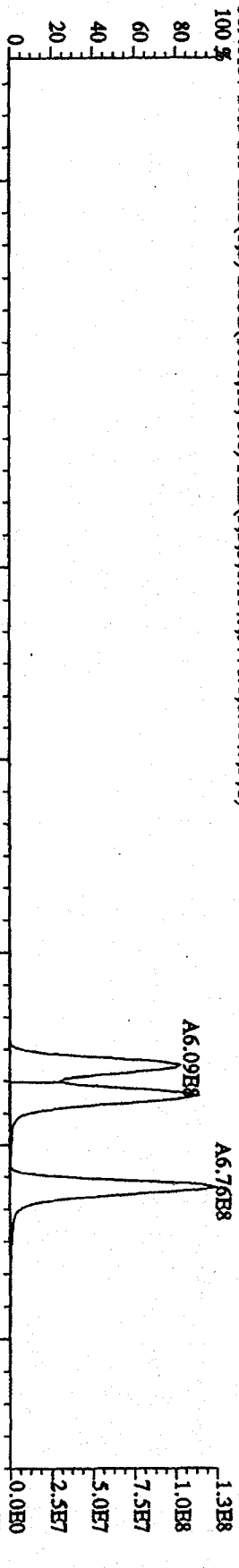
369.8919 S:13 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5888,0,1,00%,F,T)



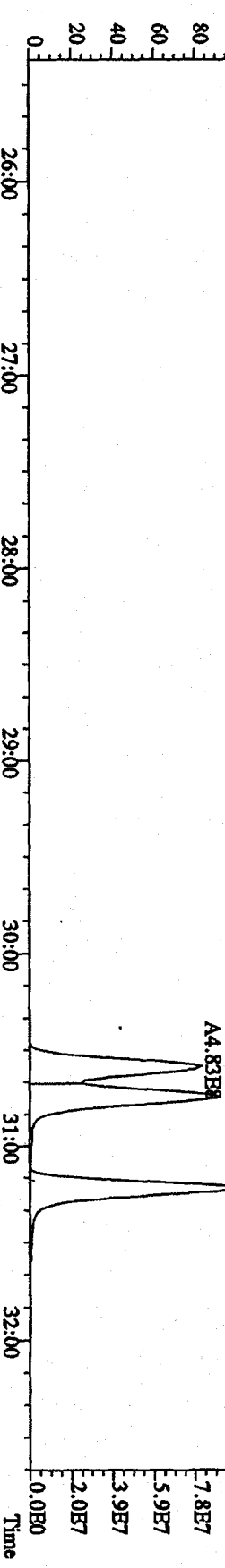
File:15DDE091D5 #1-491 Acq:15-DEC-2009 18:51:14 GC HI+ Voltage SIR 70SE
 Sample#13 Text:ST1215K :CSS 09DXN412 Exp:DIOXIN
 373.8208 S:13 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,114632,0,1,00%,F,T)



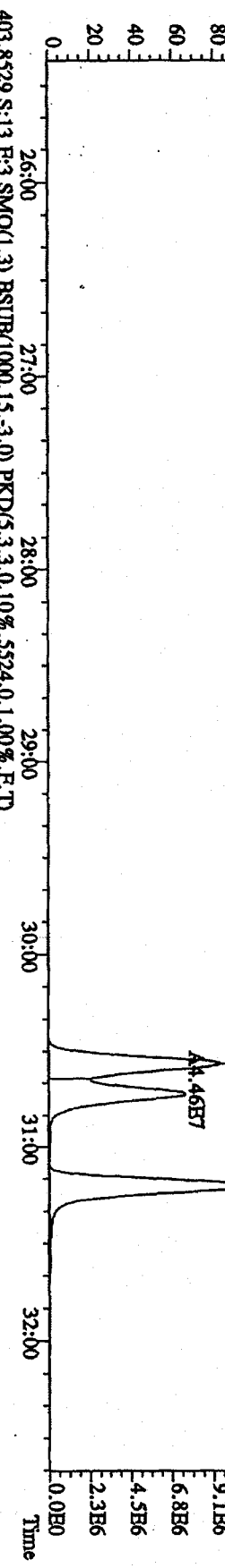
File: 15DB091D5 #1-491 Acq: 15-DEC-2009 18:51:14 GC HI+ Voltage SIR 70SE
Sample#13 Text: ST1215K :CSS 09DXN412 Exp: DIOXIN
389.8157 S:13 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3776,0,1,00%,F,T)
100%



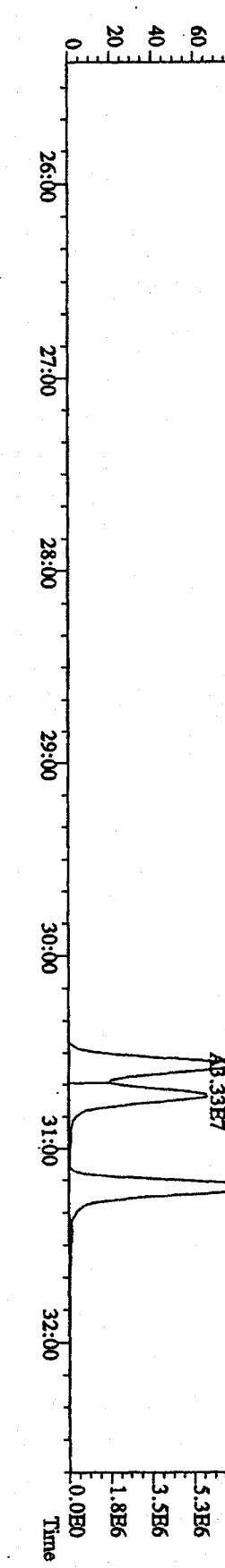
391.8127 S:13 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5096,0,1,00%,F,T)
100%



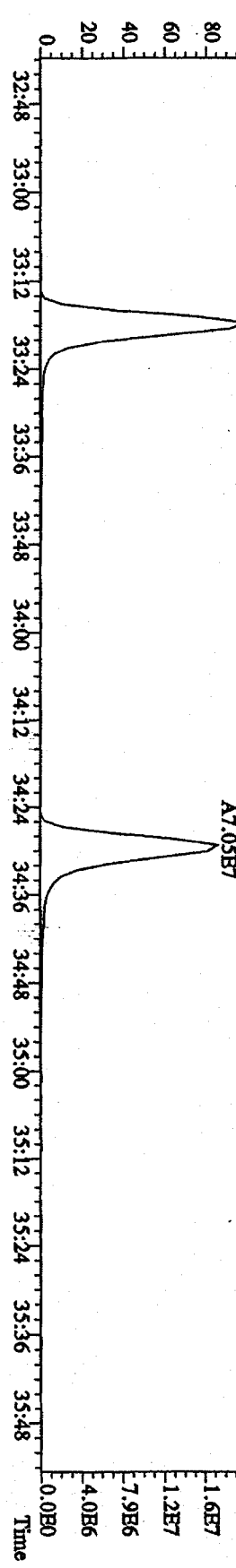
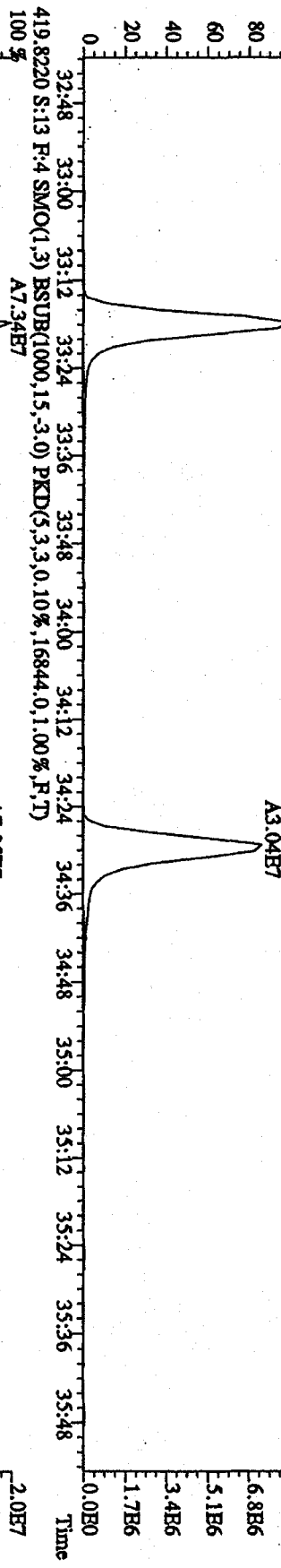
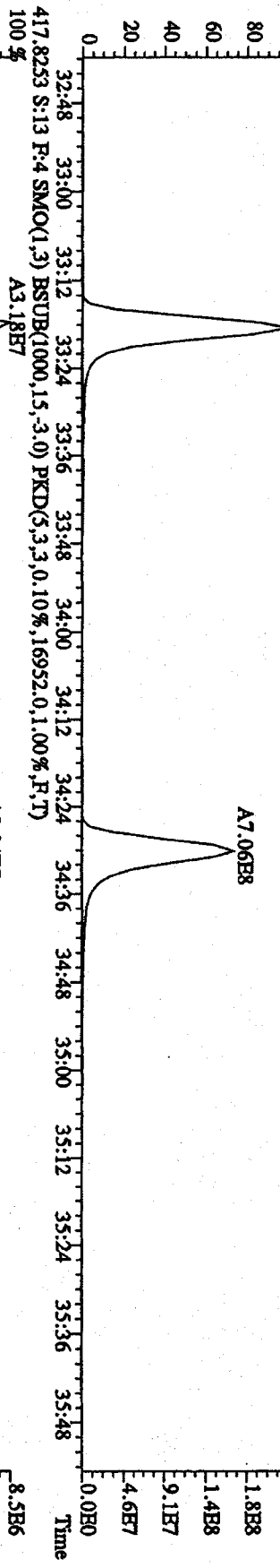
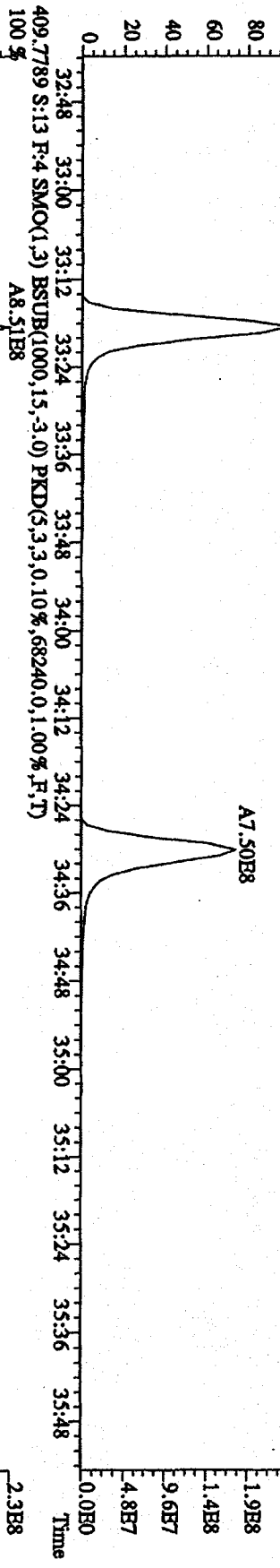
401.8559 S:13 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3156,0,1,00%,F,T)
100%



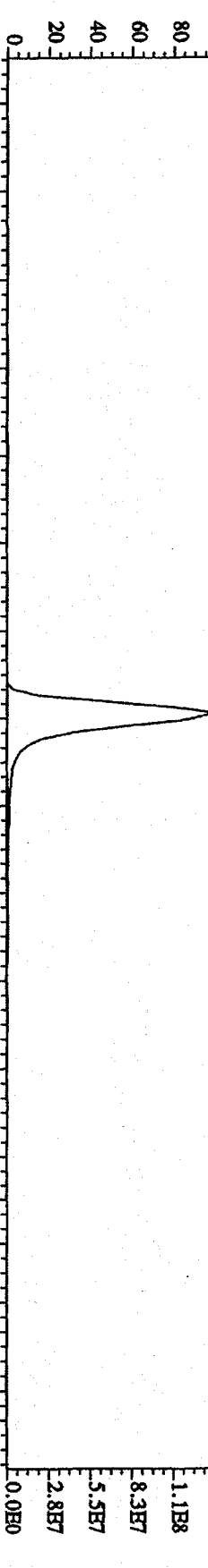
403.8529 S:13 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,5524,0,1,00%,F,T)
100%



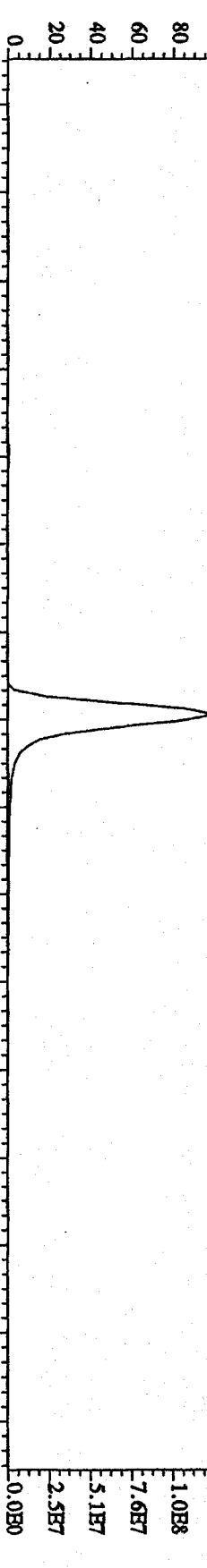
File:15DBE091D5 #1-227 Acq:15-DEC-2009 18:51:14 GC BI + Voltage SIR 70SE
 Sample#13 Text:ST1215K :CSS 09DXN412 Exp:DIOXIN
 407.7818 S:13 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,44524,0,1,00%,F,T)
 100%



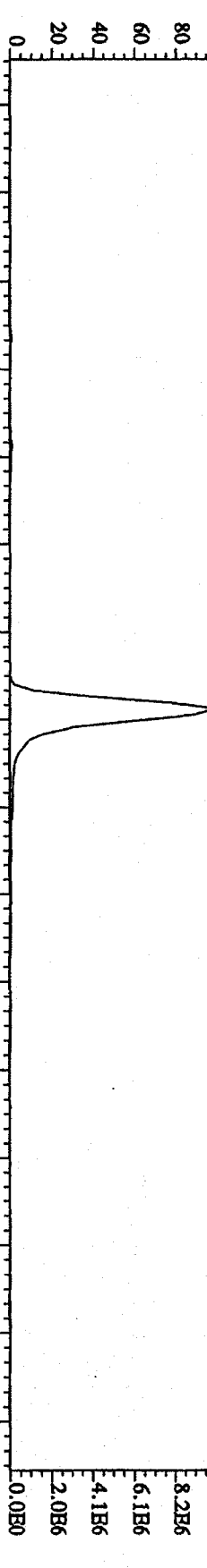
File:15DBE091D5 #1-227 Acq:15-DEC-2009 18:51:14 GC HI + Voltage SIR 70SE
 Sample#13 Text:ST1215K :CSS 09DXN412 Exp:DIOXIN
 423.7766 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,28036,0.1,00%,F,T)
 100% A5.47E8



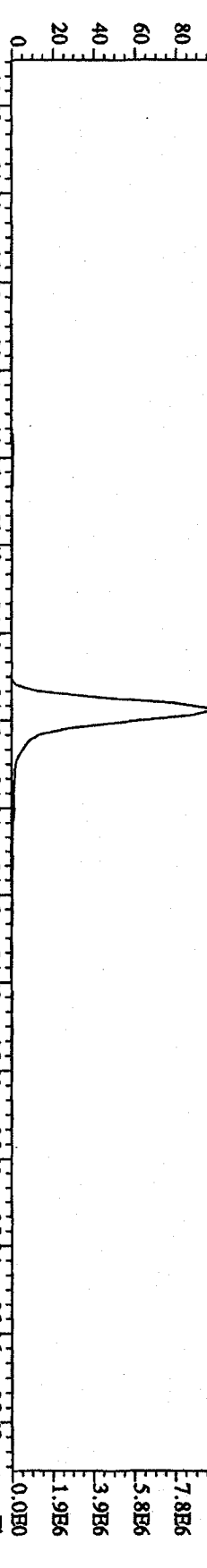
425.7737 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17912,0.1,00%,F,T)
 100% A3.90E7



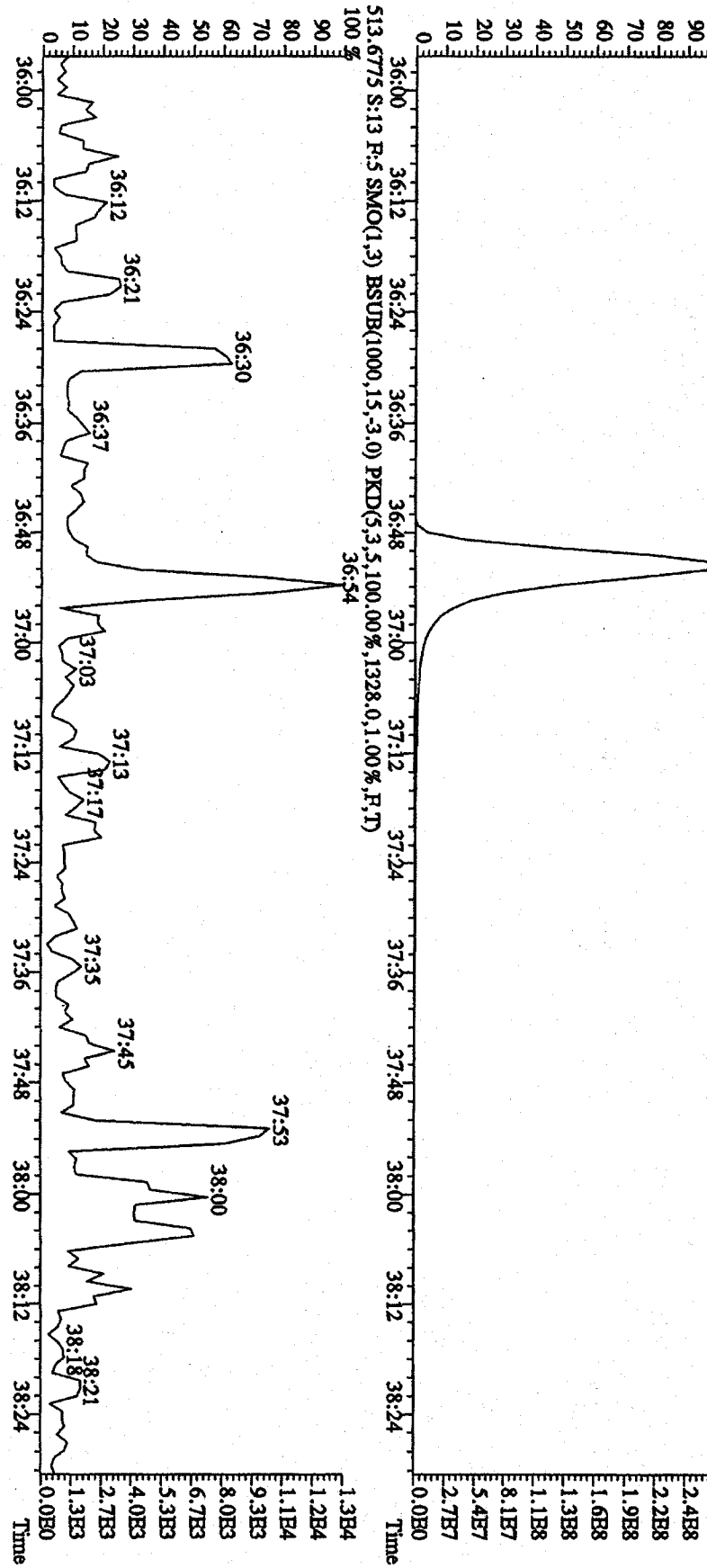
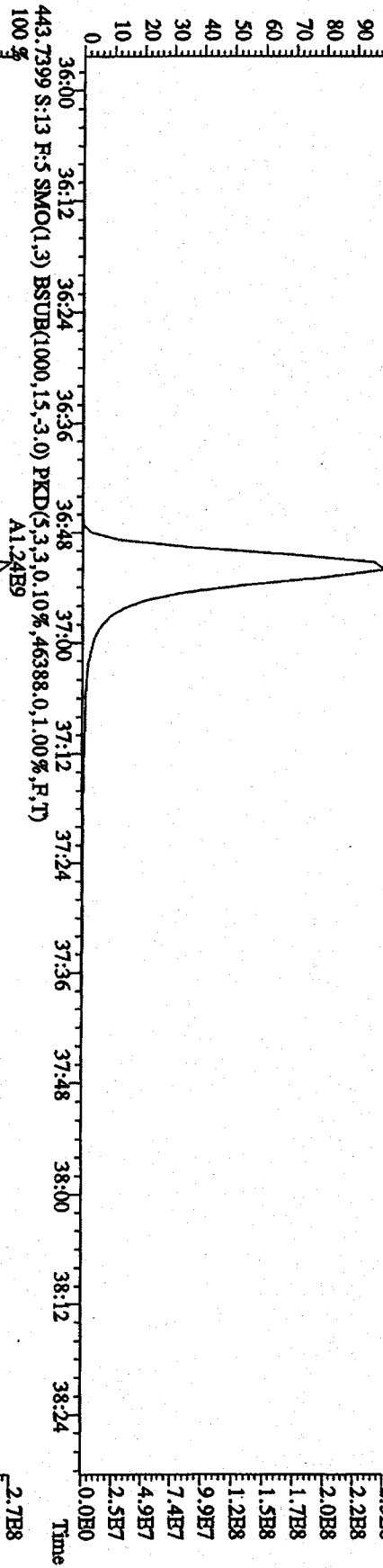
437.8140 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4920,0.1,00%,F,T)
 100% A3.66E7



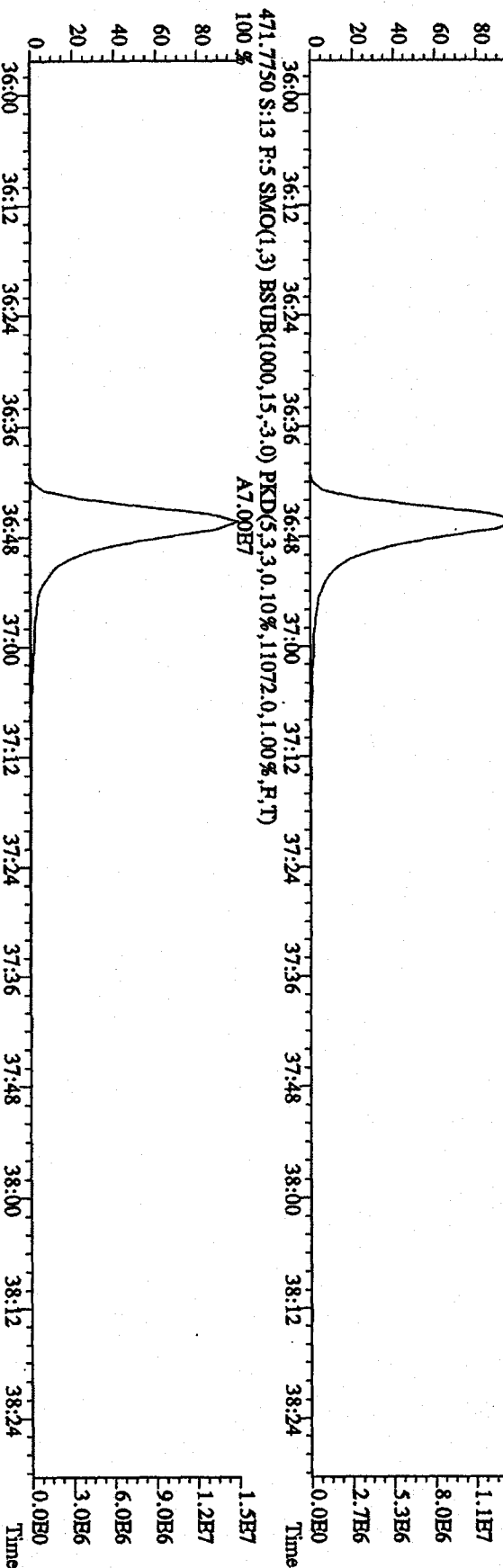
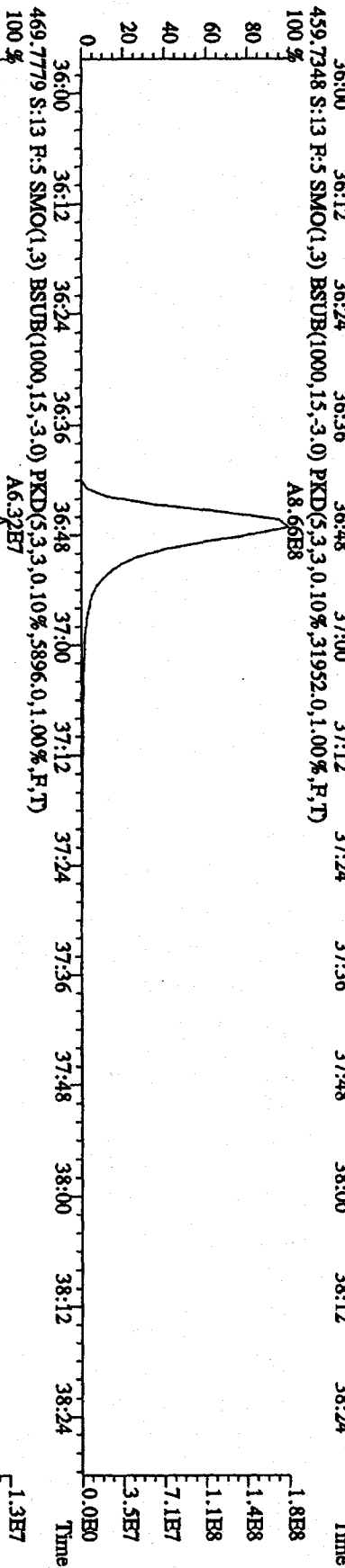
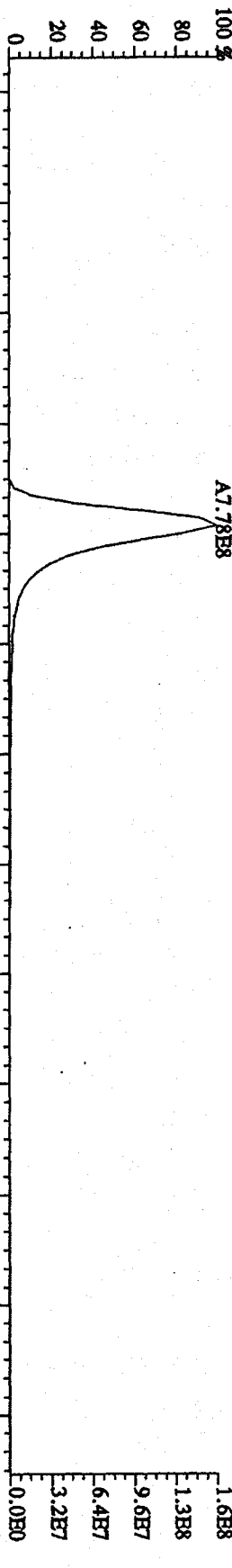
435.8169 S:13 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9936,0.1,00%,F,T)
 100% A3.90E7



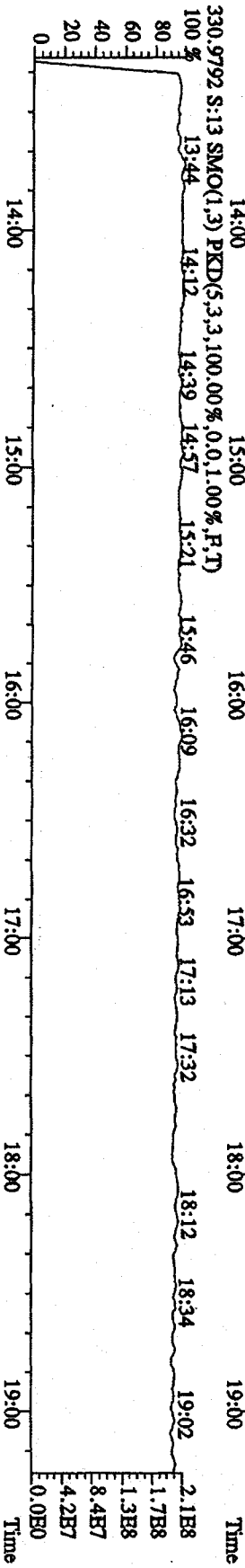
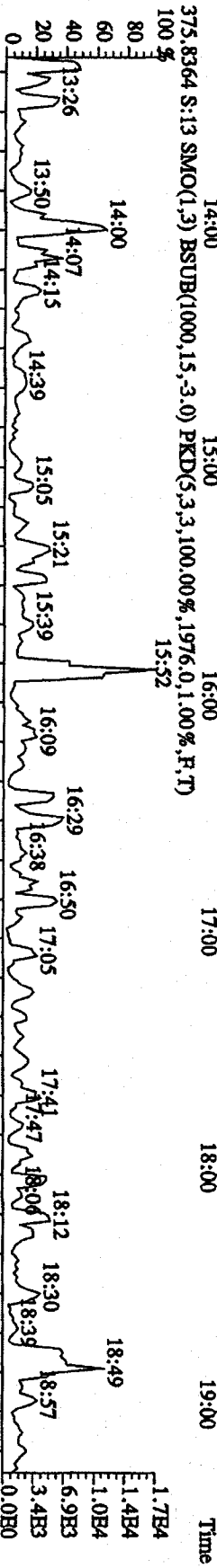
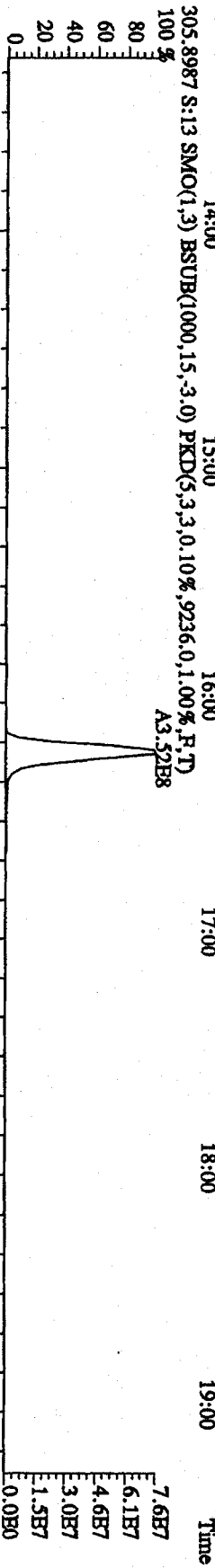
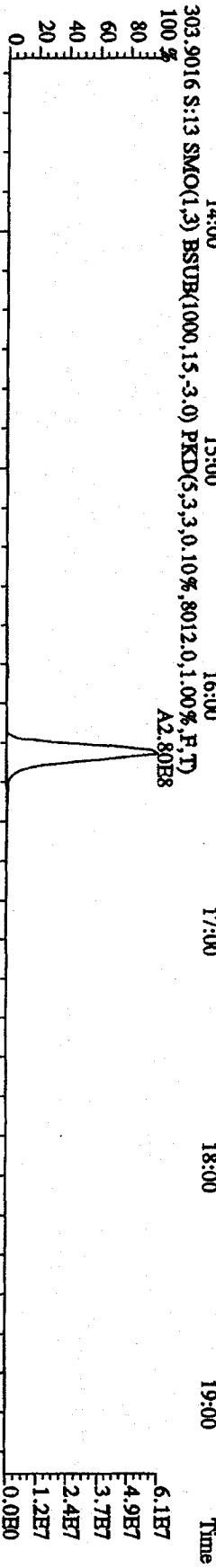
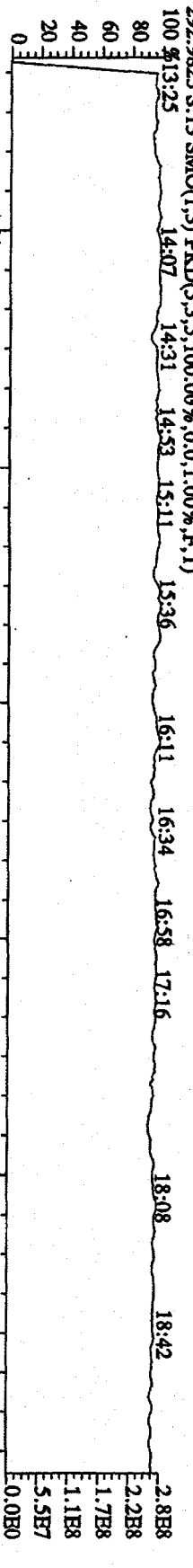
File:15DB091D5 #1-186 Acq:15-DEC-2009 18:51:14 GC EI + Voltage SIR 70SE
 Sample#13 Text:ST1215K :CS5 09DXN412 Exp.:DIOXIN
 441.7428 S:13 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,30504,0,1,100%,F,T)
 100% A1.13E9



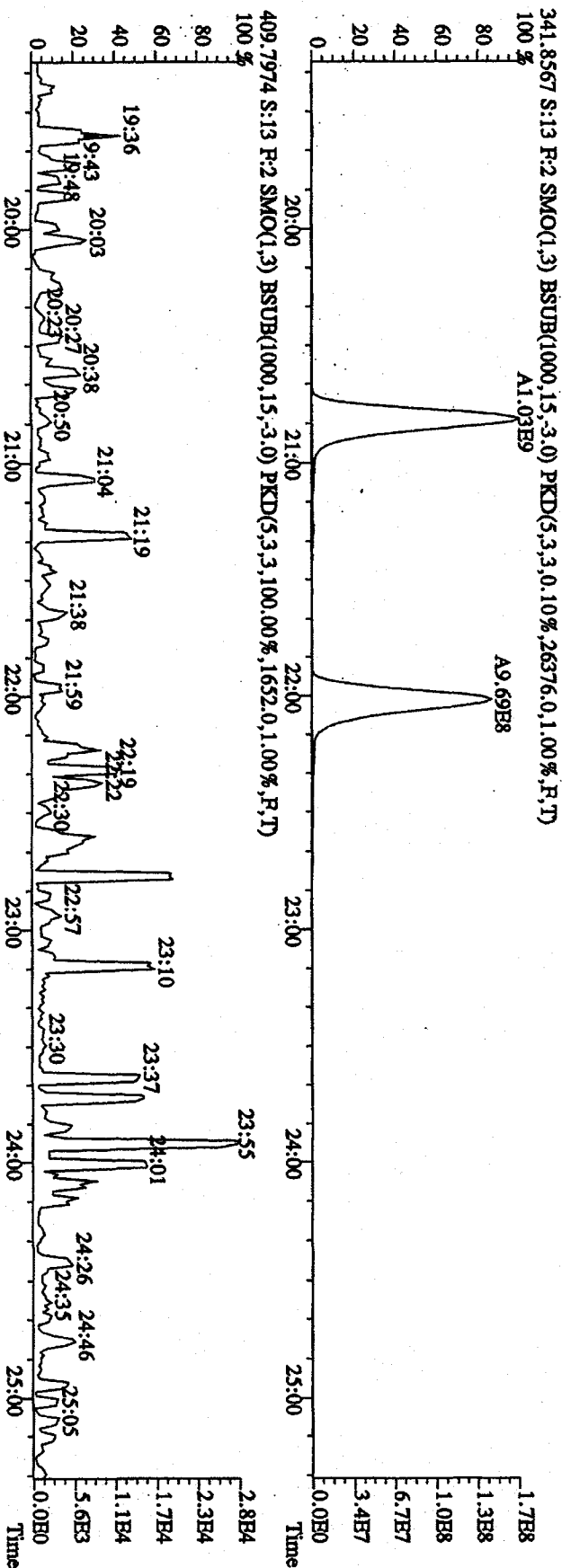
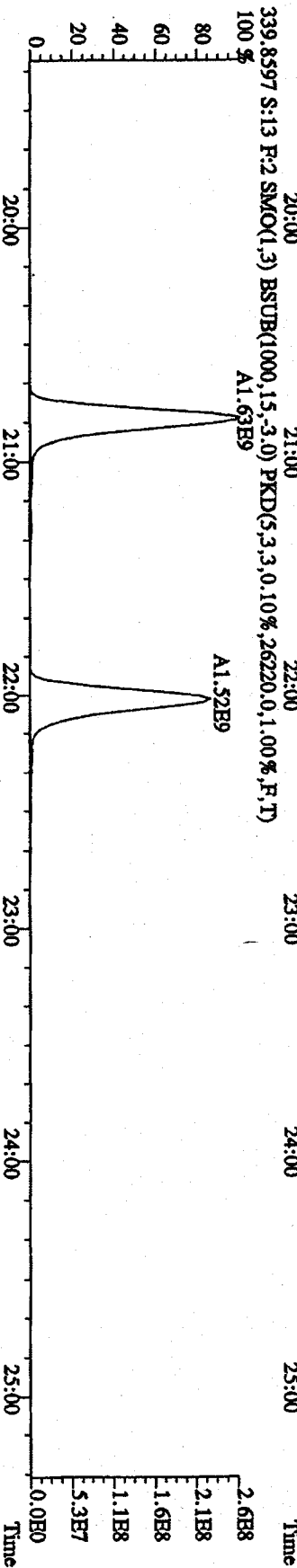
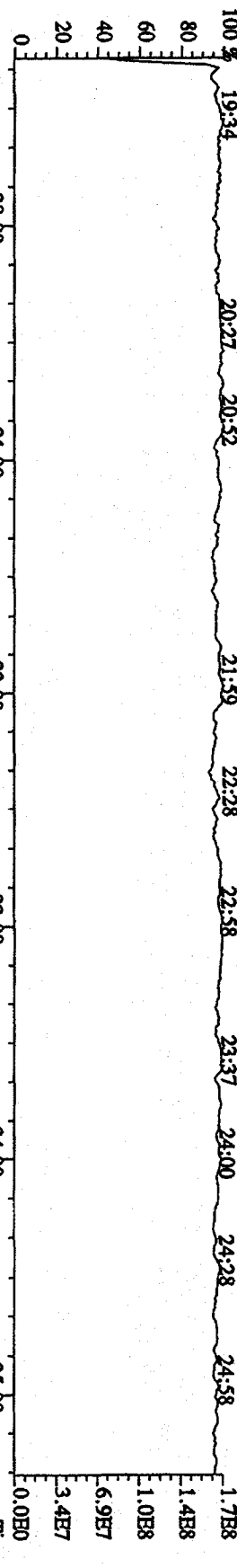
File: 15DE091D5 #1-186 Acq: 15-DEC-2009 18:51:14 GC EI+ Voltage SIR 70SE
 Sample#13 Text: ST1215K : CSS 09DXN412 Exp: DIOXIN
 457.7377 S:13 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,20660,0.1,0.00%,F,T)
 100% A7.78E8



File:15DB091D5 #1-355 Acq:15-DEC-2009 18:51:14 GC EI+ Voltage SIR 70SB
 Sample#13 Text:ST1215K :CSS 09DXN412 Exp:DIOXIN

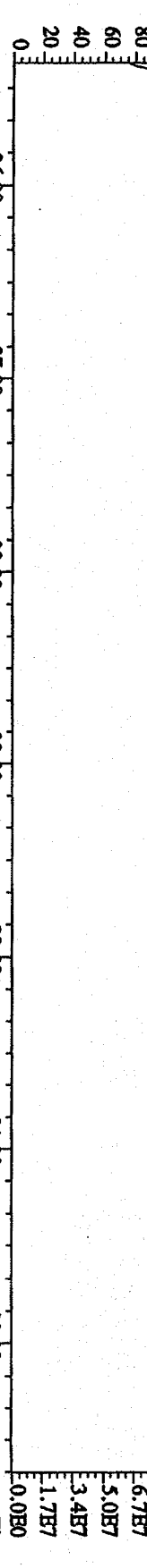


File:15DBE091D5 #1-427 Acq:15-DEC-2009 18:51:14 GC EI+ Voltage SIR 70SE
 Sample#13 Text:ST1215K :CSS 09DXN412 Exp:DIOXIN
 342.9792 S:13 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 19:34 20:27 20:52 21:59 22:28 22:58 23:37 24:00 24:28 24:58

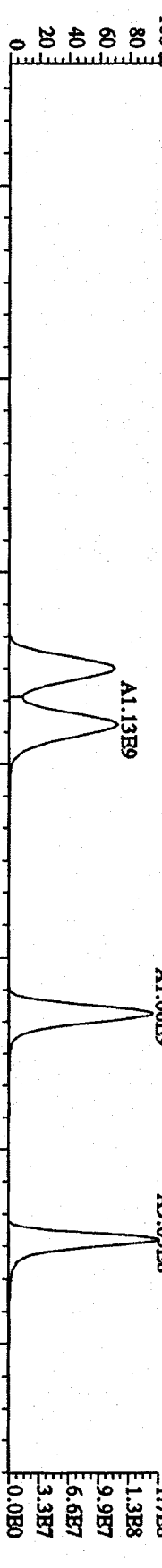


File:15DE091D5 #1-491 Acq:15-DEC-2009 18:51:14 GC HI + Voltage SIR 70SE
 Sample#13 Tex:ST1215K :CSS 09DXN412 Exp:DIOXIN

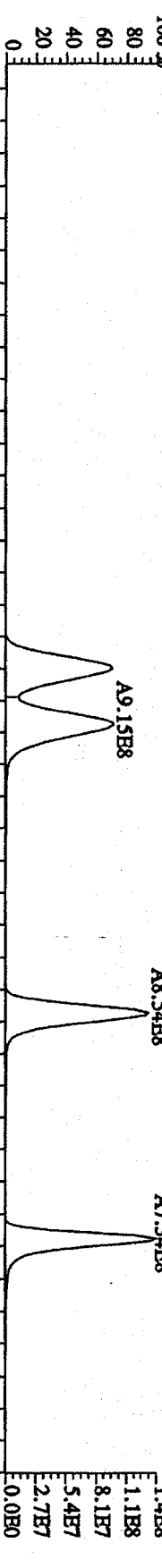
392.9760 S:13 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T) 25:43 26:11 26:48 27:28 27:50 28:18 28:52 29:16 30:01 30:30 31:04 31:30 32:01 32:28



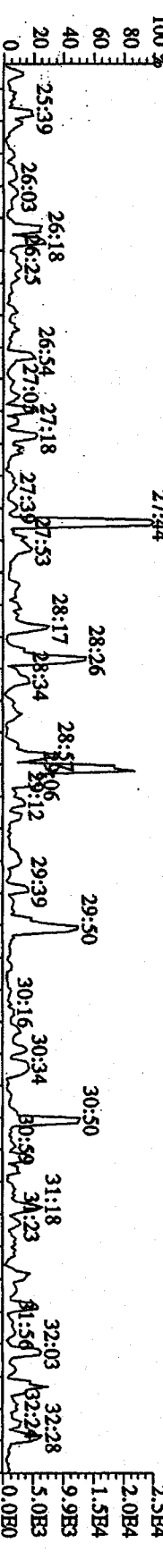
373.8208 S:13 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,114632,0,1,00%,F,T) 26:00 27:00 28:00 29:00 30:00 31:00 32:00



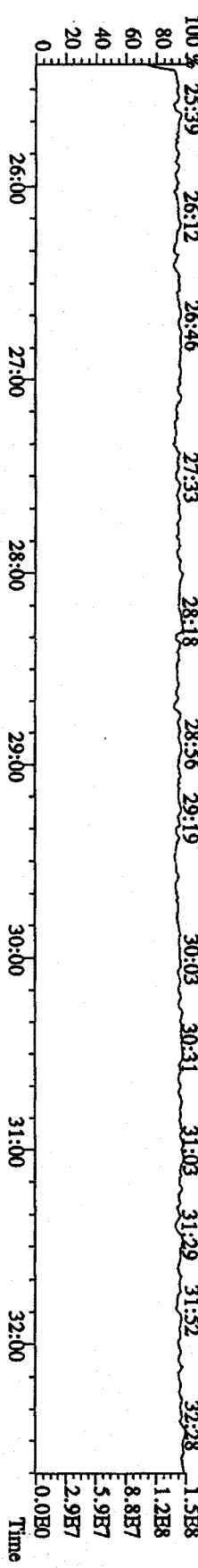
375.8178 S:13 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,98852,0,1,00%,F,T) 26:00 27:00 28:00 29:00 30:00 31:00 32:00



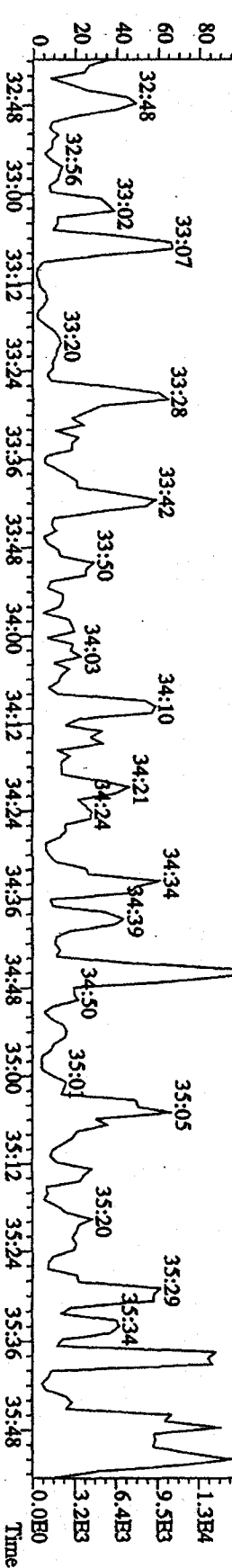
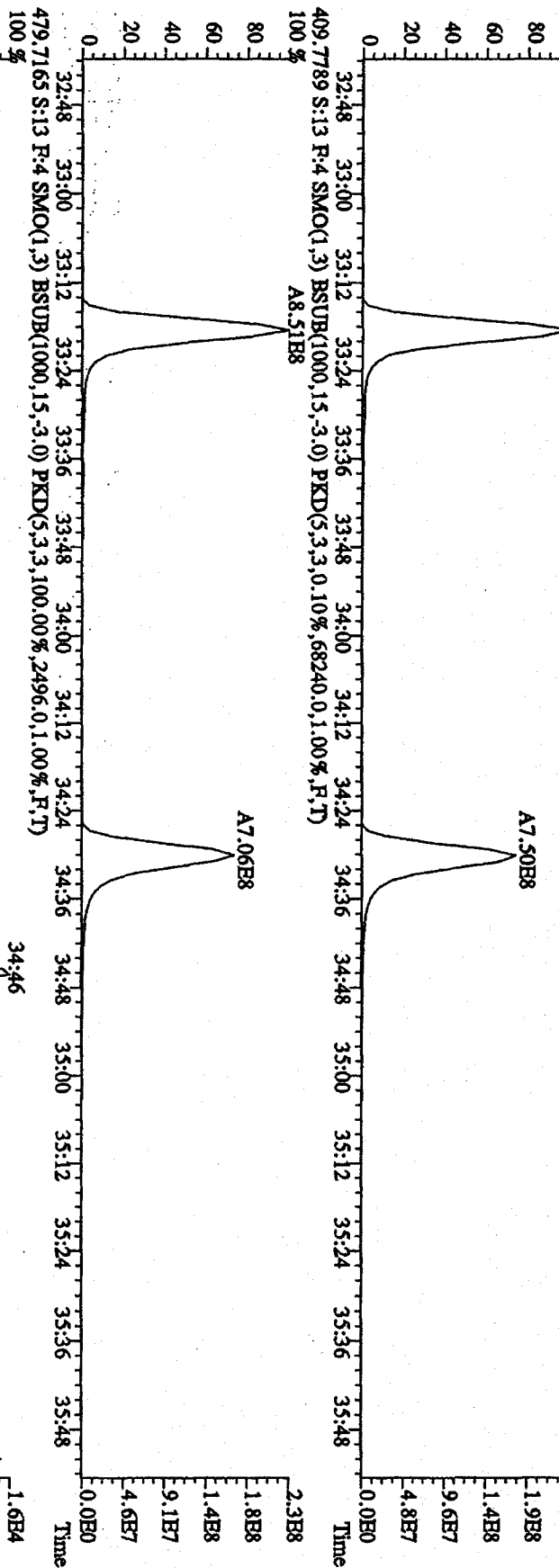
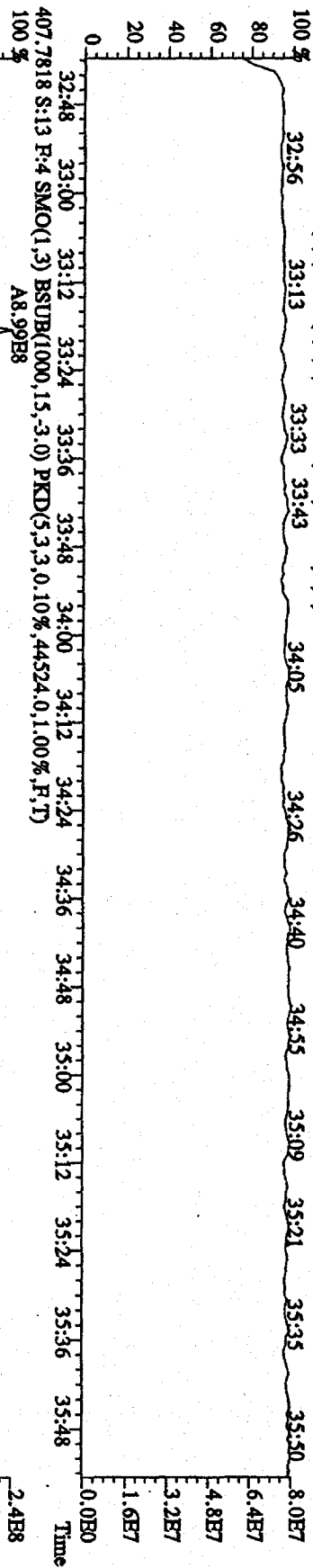
445.7555 S:13 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,2200,0,1,00%,F,T) 26:00 27:00 28:00 29:00 30:00 31:00 32:00



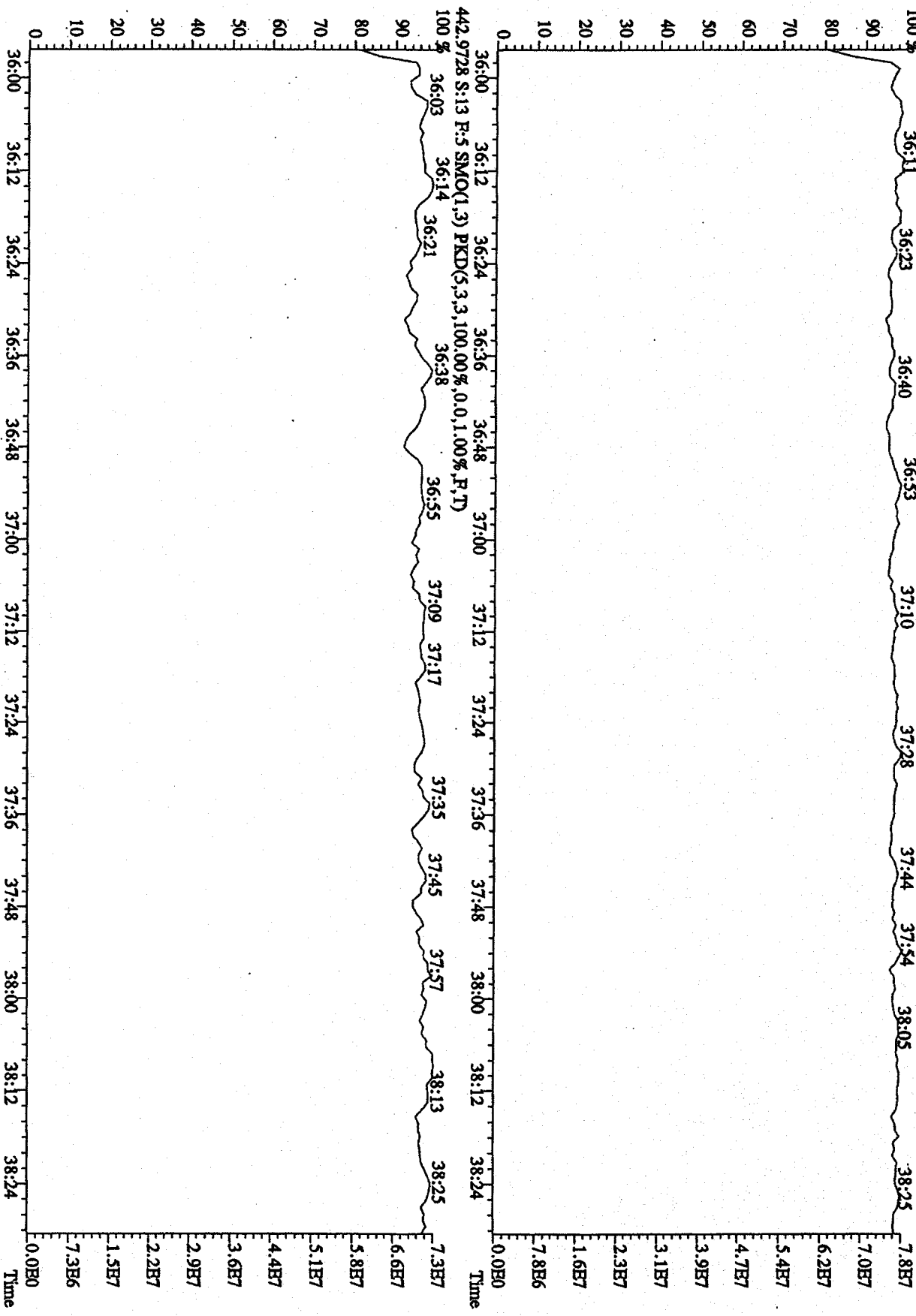
380.9760 S:13 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T) 25:39 26:12 26:46 27:33 28:18 28:56 29:19 30:03 30:31 31:03 31:29 31:52 32:28



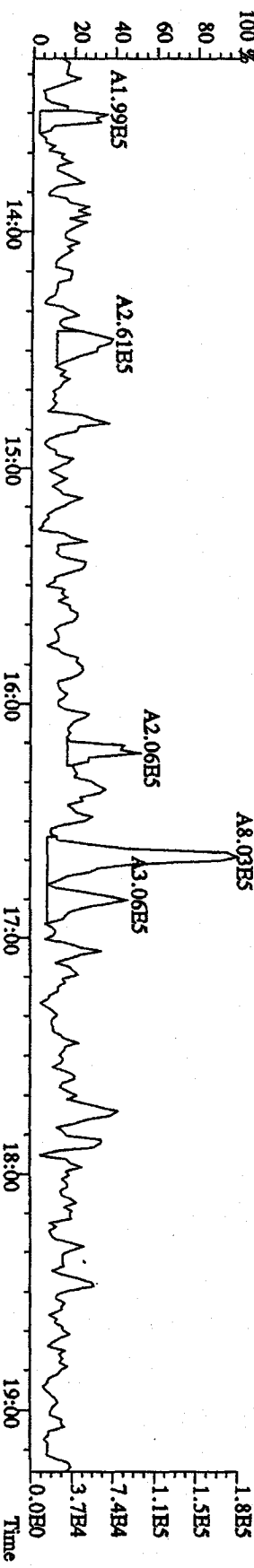
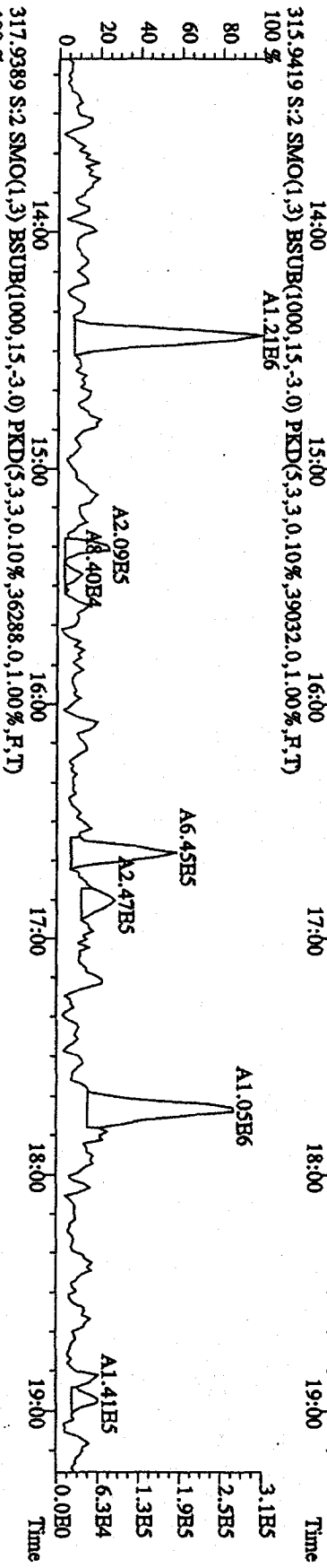
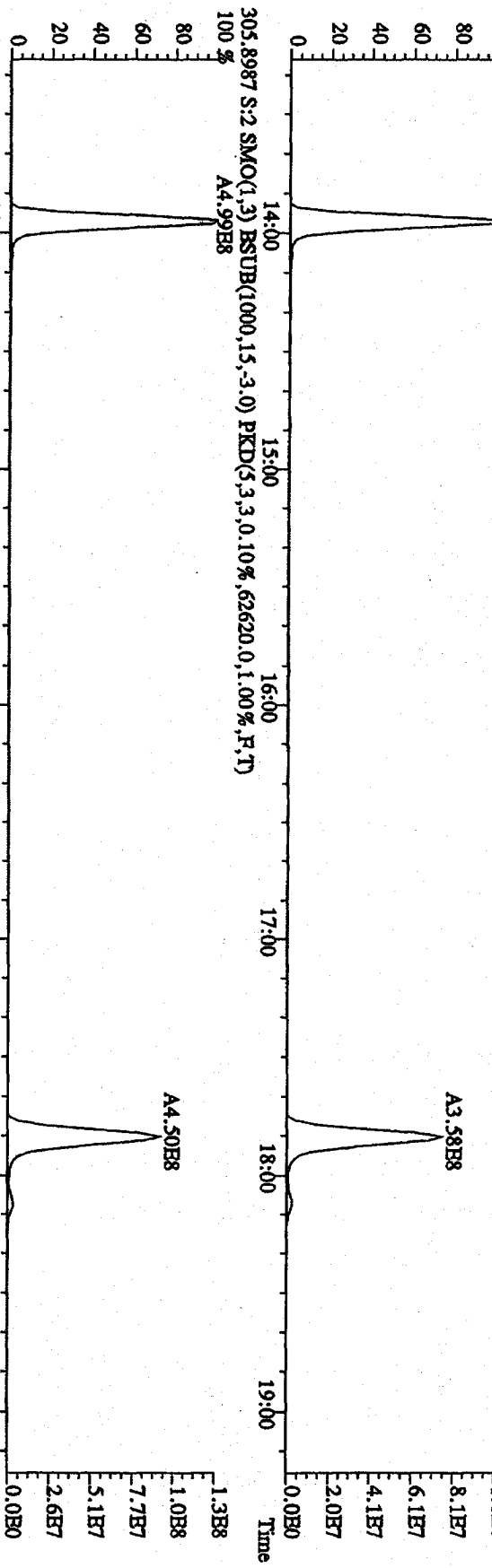
File:13DE091D5 #1-227 Acq:15-DEC-2009 18:51:14 GC EI+ Voltage S1R 70SE
 Sample#13 Text:ST1215K :CSS 09DXN412 Exp:DIOXIN
 430.9728 S:13 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



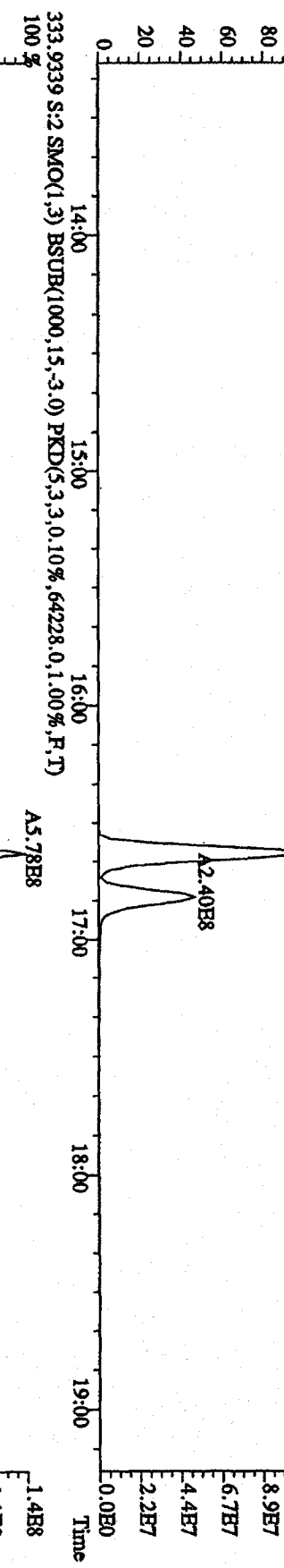
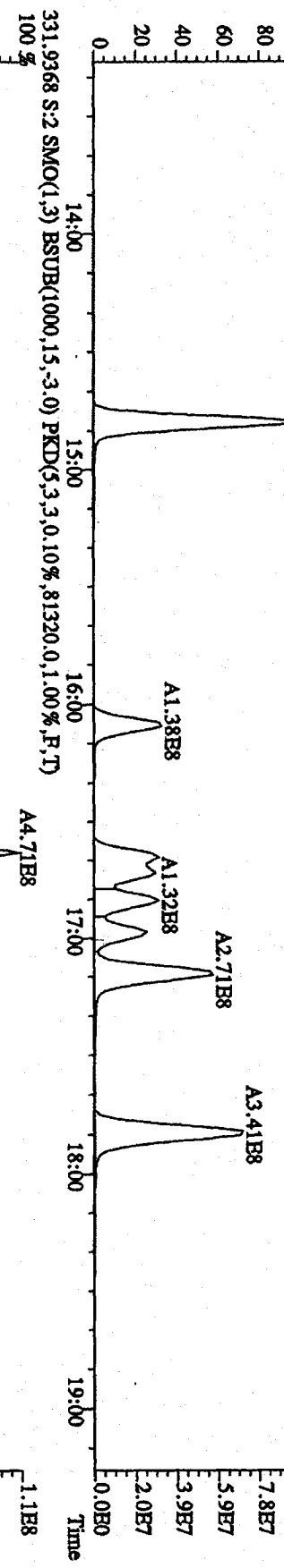
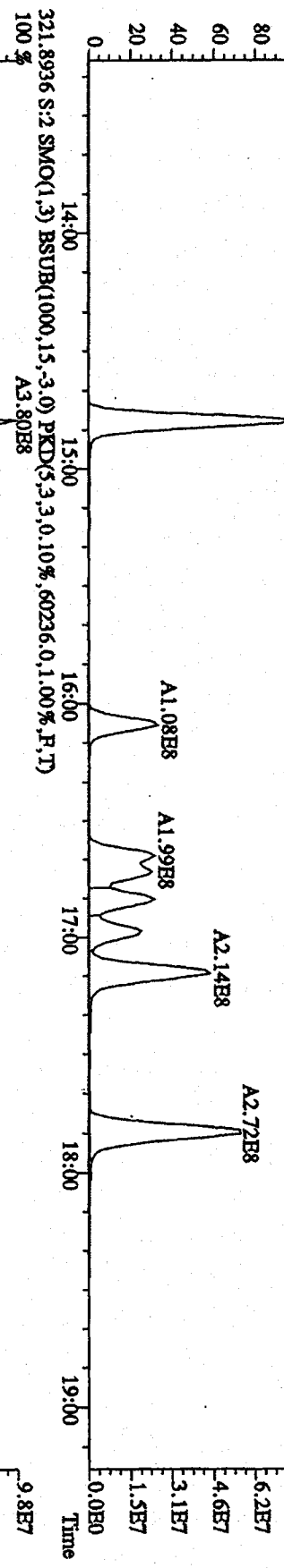
File:15DE091D5 #1-186 Acq:15-DEC-2009 18:51:14 GC HI + Voltage SIR 70SE
 Sample#13 Text:ST1215K :CSS 09DXN412 Exp:DIOXIN
 454.9728 S:13 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



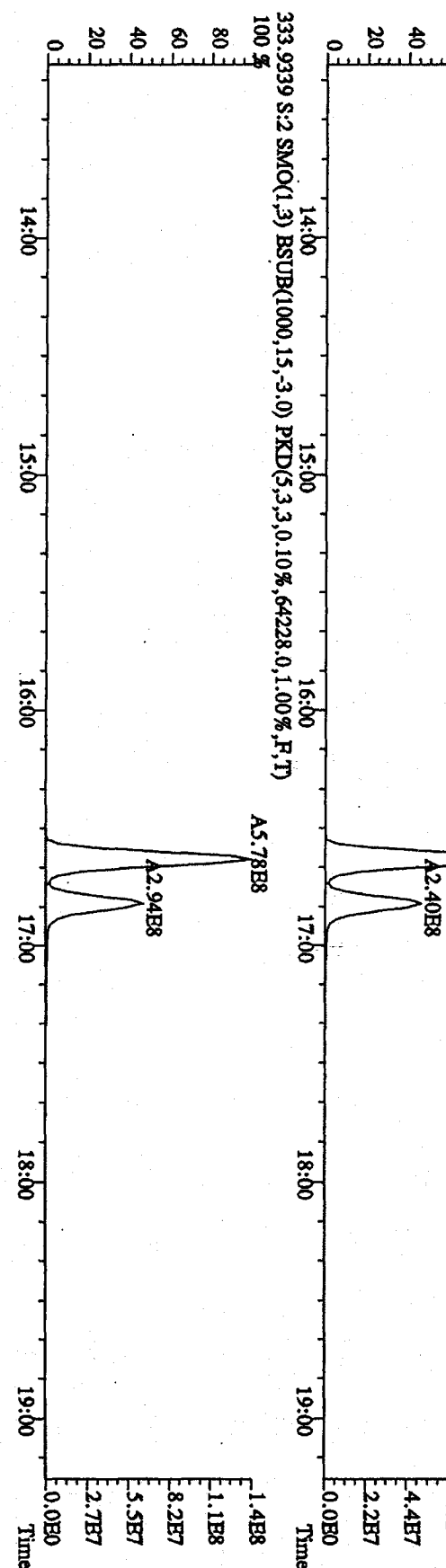
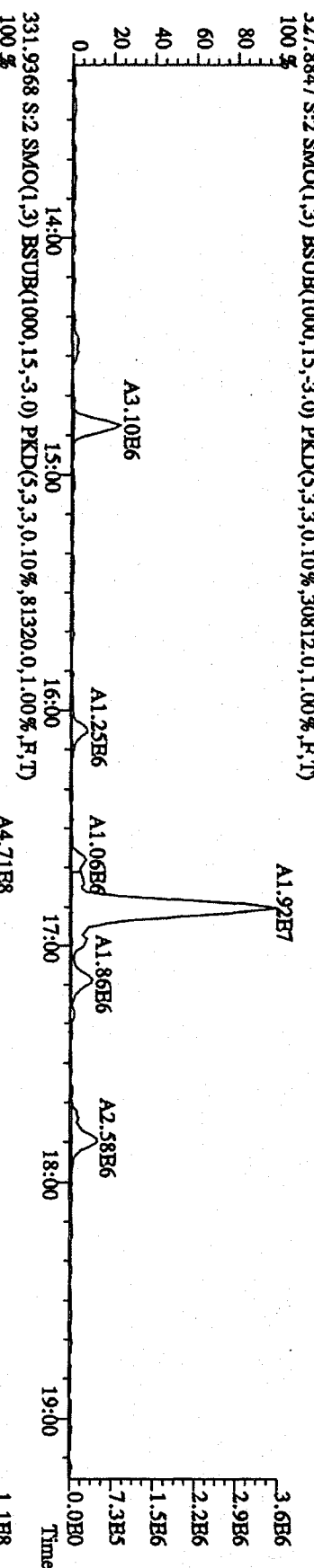
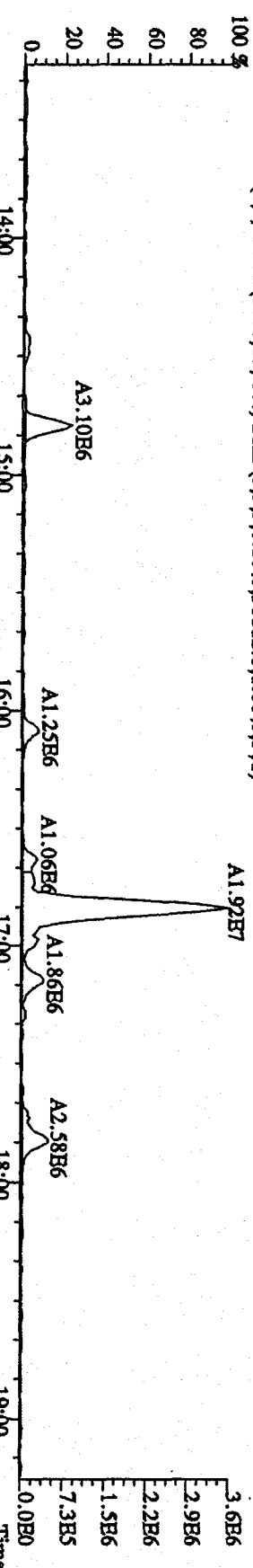
File:15DBE091D5 #1-355 Acq:15-DEC-2009 11:11:01 GC BE + Voltage SIR 70SE
 Sample#2 Text:CP1215 :DB-5 CPM 3732-04 Exp:DIOXIN
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,47540,0.1,0.0%,F,T)
 100%



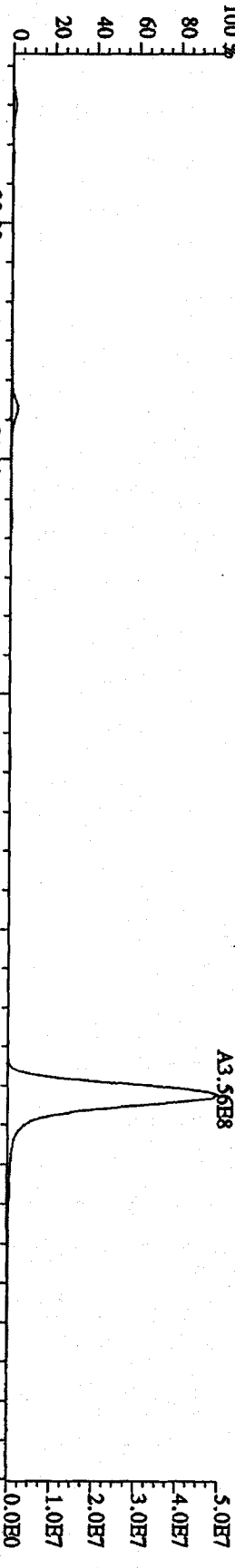
File:15DB091D5 #1-355 Acq:15-DEC-2009 11:11:01 GC.HI+ Voltage SIR 70SE
 Sample#2 Text:CP1215 :DB-5 CPSM 3732-04 Exp:DIOXIN
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,43652,0,1,00%,F,T)
 100 %



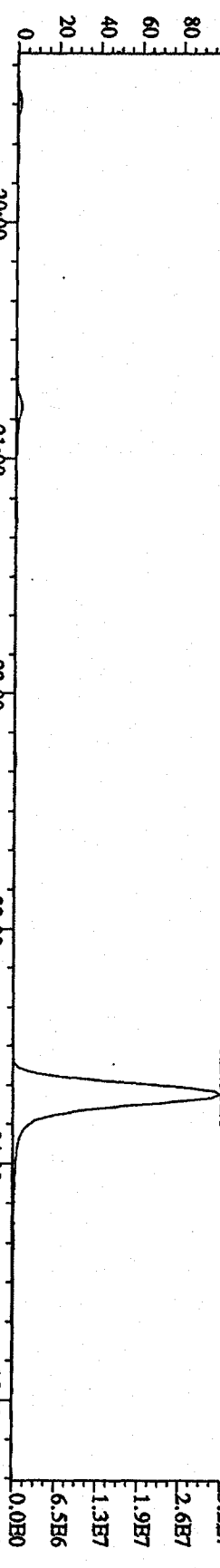
File:15DBE091D5 #1-355 Acq:15-DBC-2009 11:11:01 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1215 :DB-5 CFSM 3732-04 Exp:DIOXIN
 327.8847 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,30812,0,1,00%,F,T)



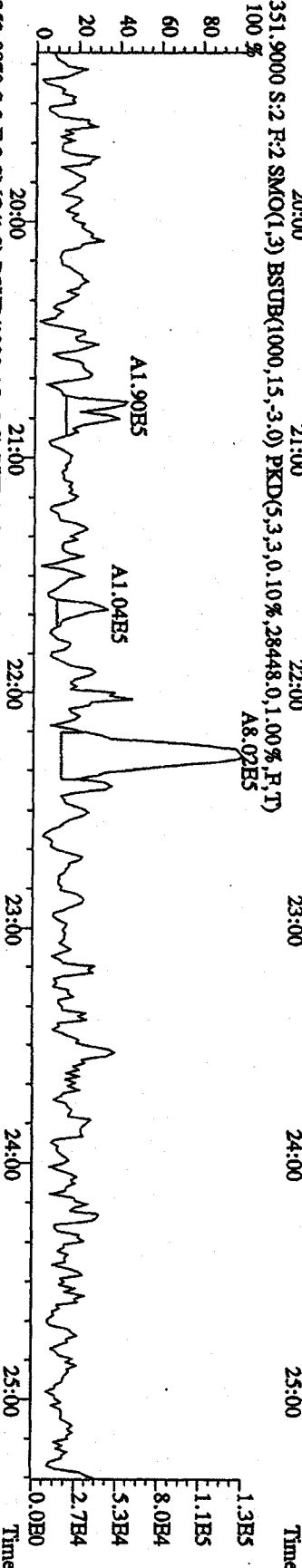
File:15DDE091D5 #1-427 Acq:15-DEC-2009 11:11:01 GC HF+ Voltage SIR 70SE
 Sample#2 Text:CP1215 :DB-5 CP5M 3732-04 Exp:DIOXIN
 339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,30324,0,1.00%,F,T)



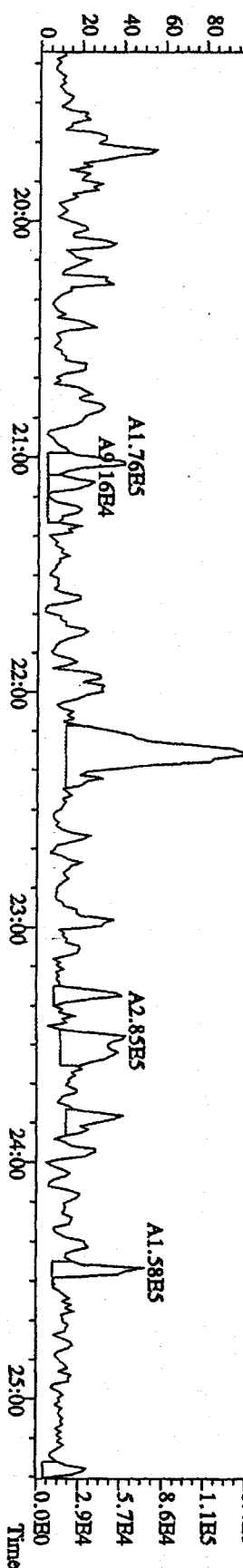
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,34816,0,1.00%,F,T)



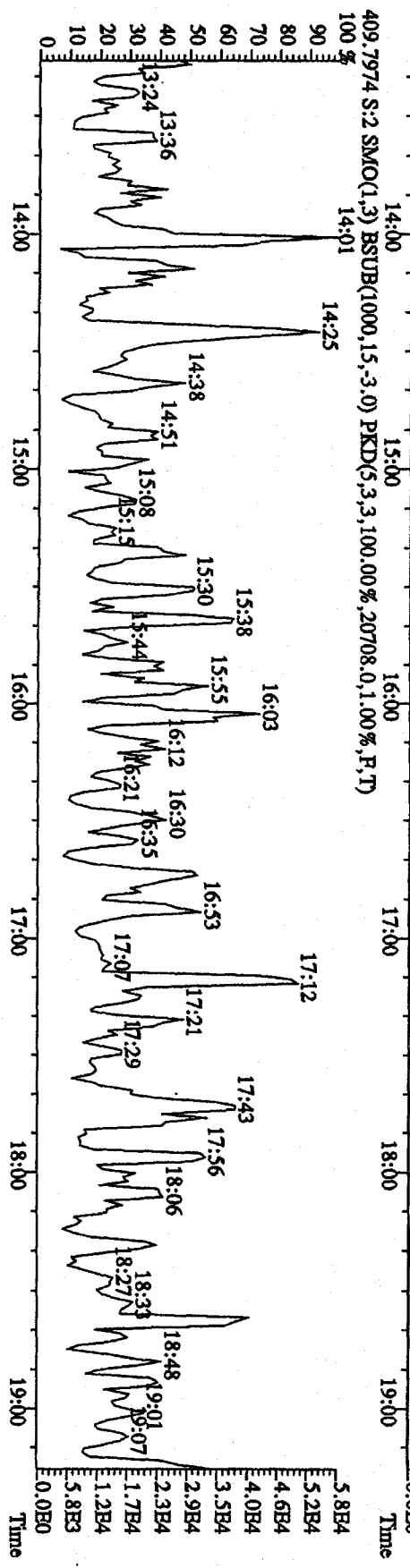
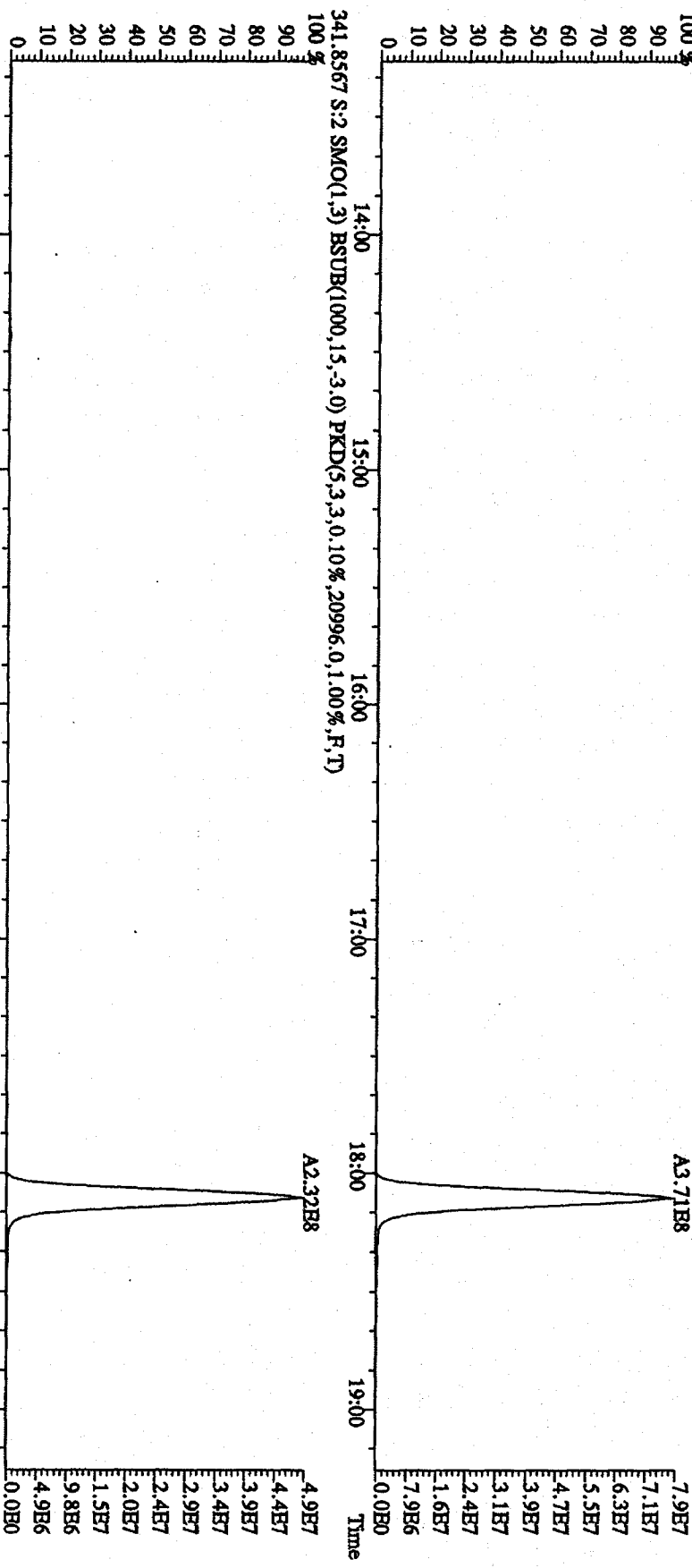
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,28448,0,1.00%,F,T)



353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,23732,0,1.00%,F,T)



File:15DE091D5 #1-355 Acq:15-DHC-2009 11:11:01 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1215 :DB-5 CP5M 3732-04 Exp:DIOXIN
 339.8597 S:2 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3.0,10%,17452.0,1.00%,F,T)

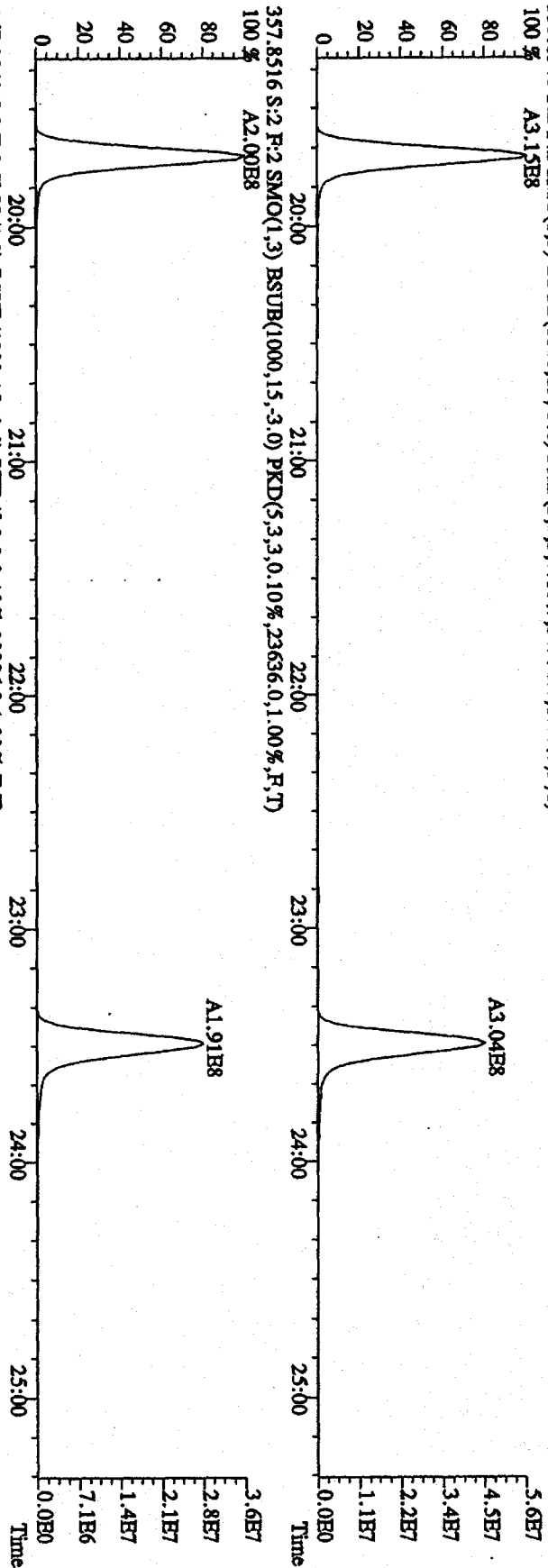


File:15DBE091D5 #1-427 Acq:15-DEC-2009 11:11:01 GC RT+ Voltage SIR 70SE

Sample#2 Text:CP1215 :DB-5 CPSM 3732-04 Exp:DIOXIN

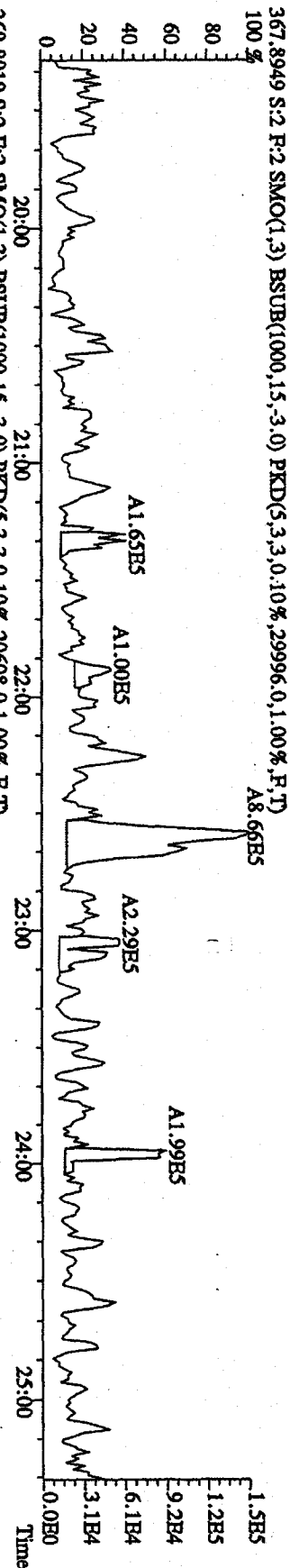
357.8516 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,23636,0,1.00%,F,T)

100% A3.15E8



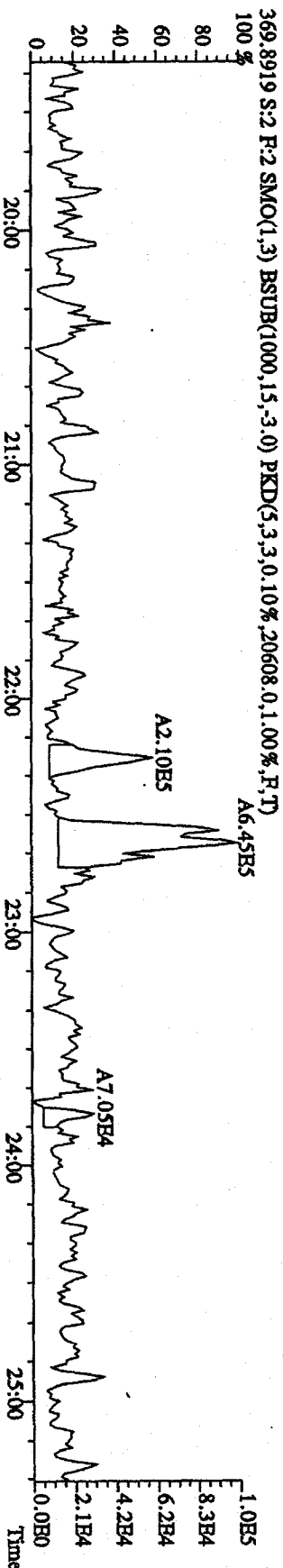
367.8949 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,29996,0,1.00%,F,T)

100% A2.00E8



369.8919 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,20608,0,1.00%,F,T)

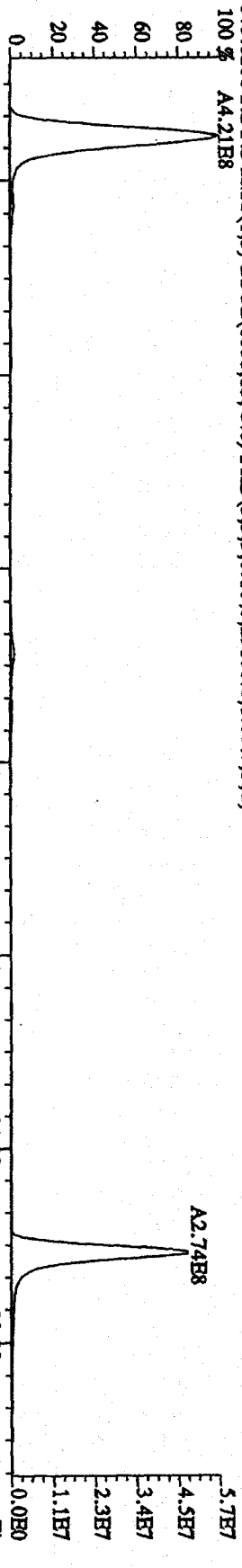
100% A2.10E5



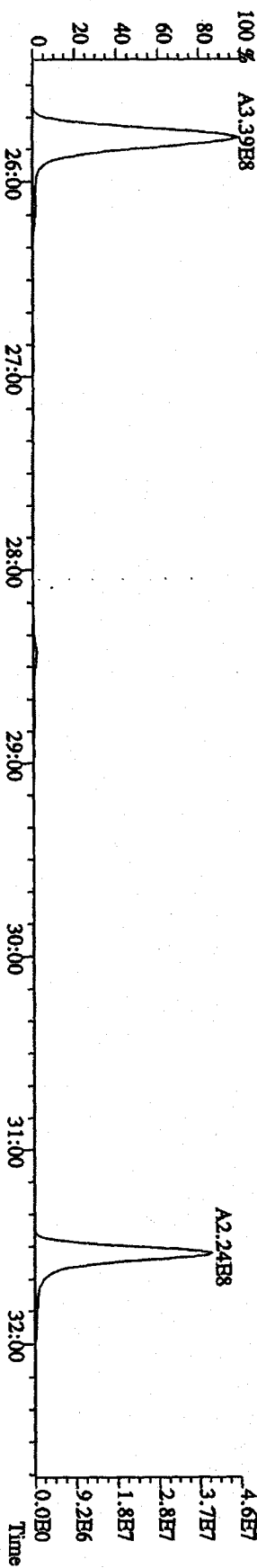
File:15DBE091D5 #1-492 Acq:15-DEC-2009 11:11:01 GC EI+ Voltage SIR 70SE

Sample#2 Text:CP1215 :DB-5 CPSM 3732-04 Exp:DIOXIN

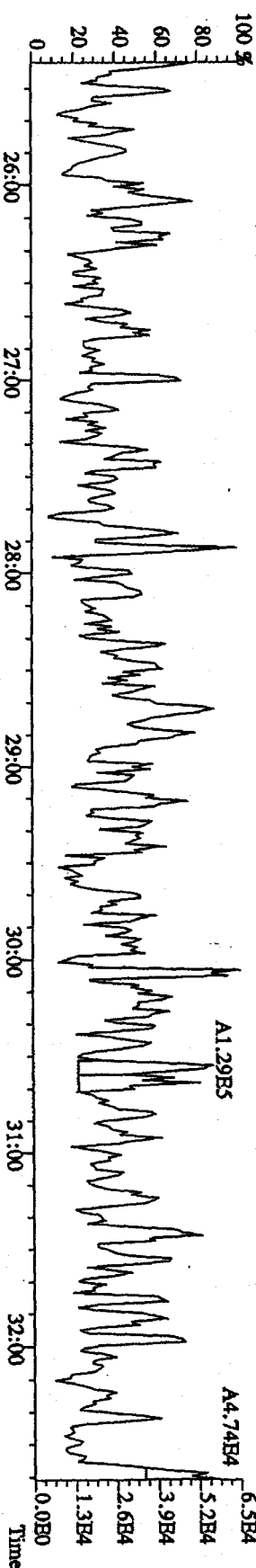
373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0.10%,29180,0,1.00%,F,T)



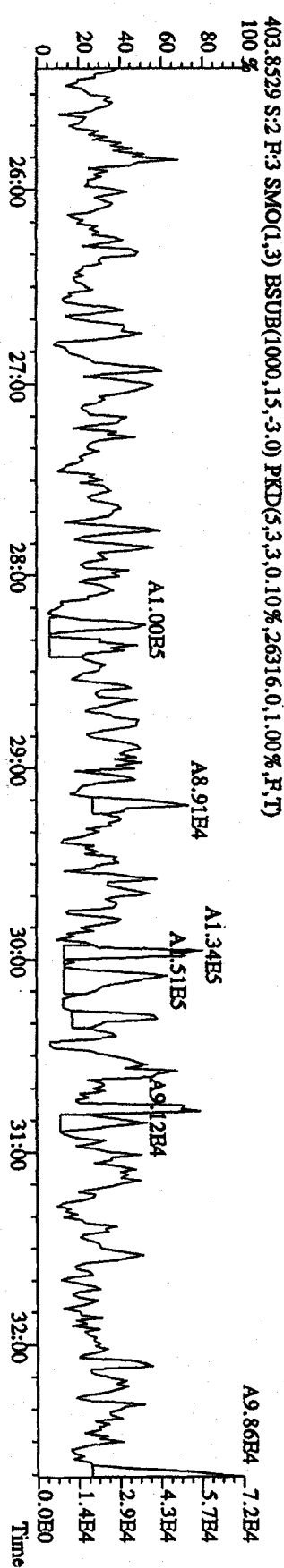
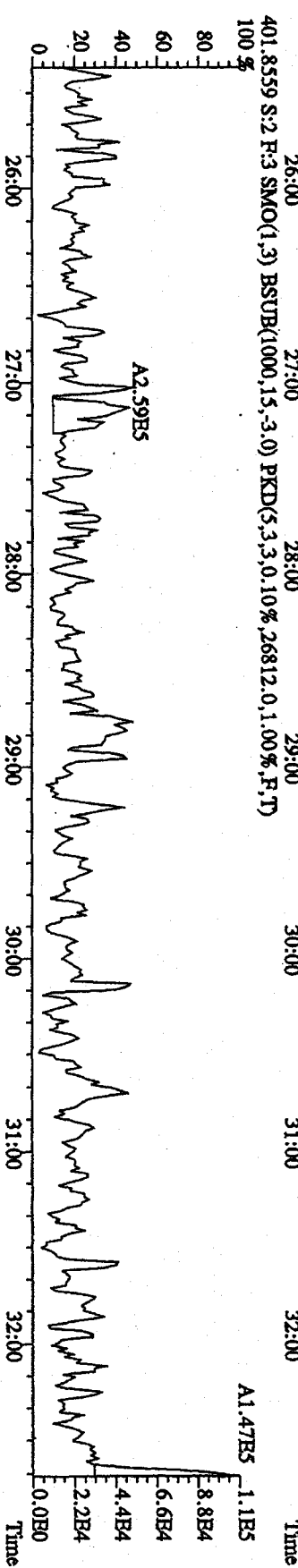
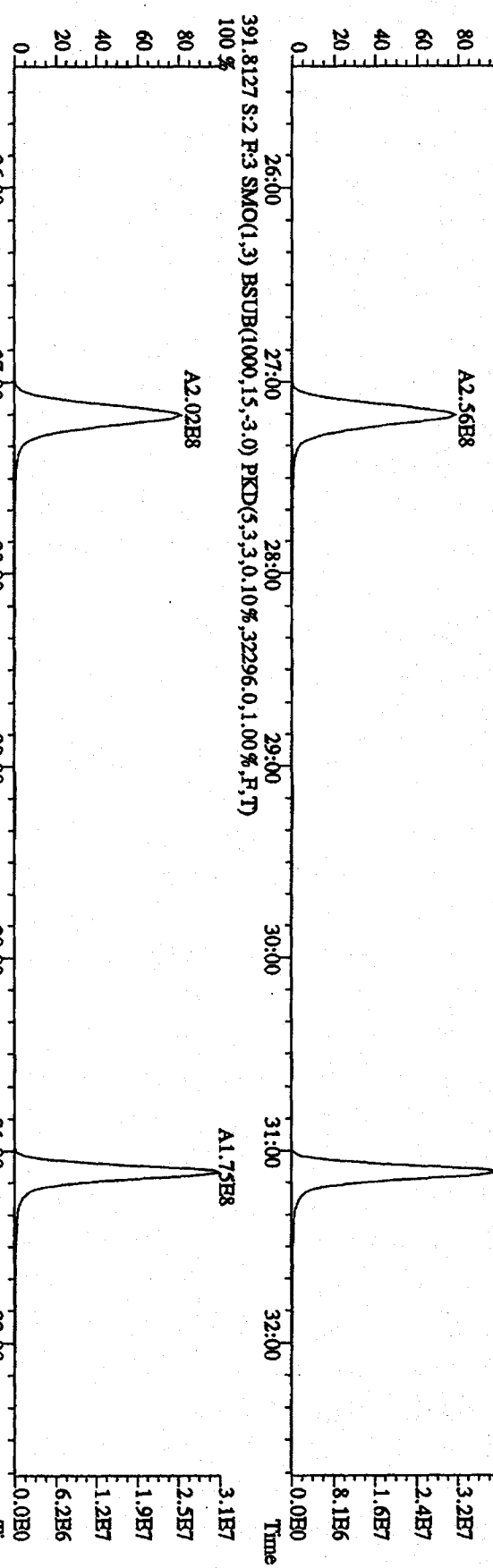
383.8639 S:2 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0.10%,23040,0,1.00%,F,T)



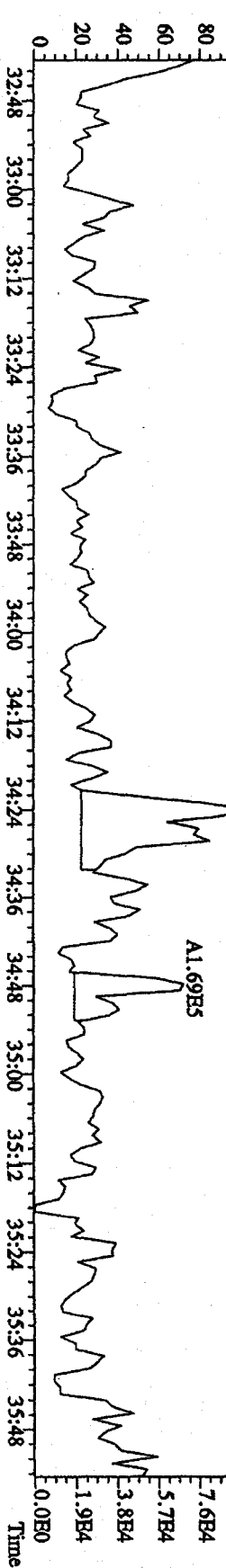
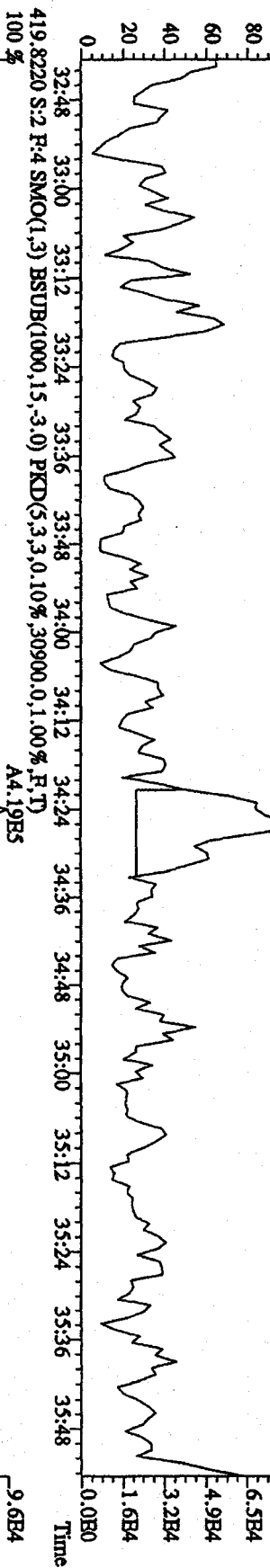
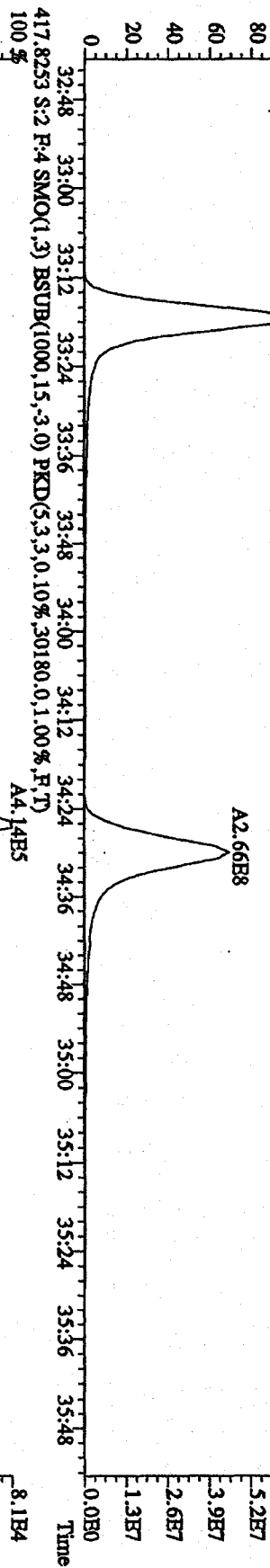
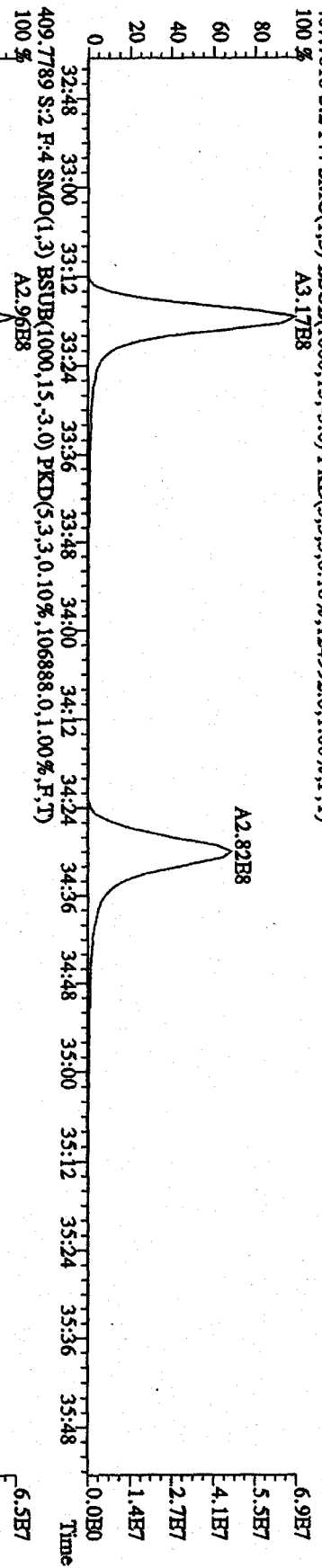
385.8610 S:2 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0.10%,29996,0,1.00%,F,T)



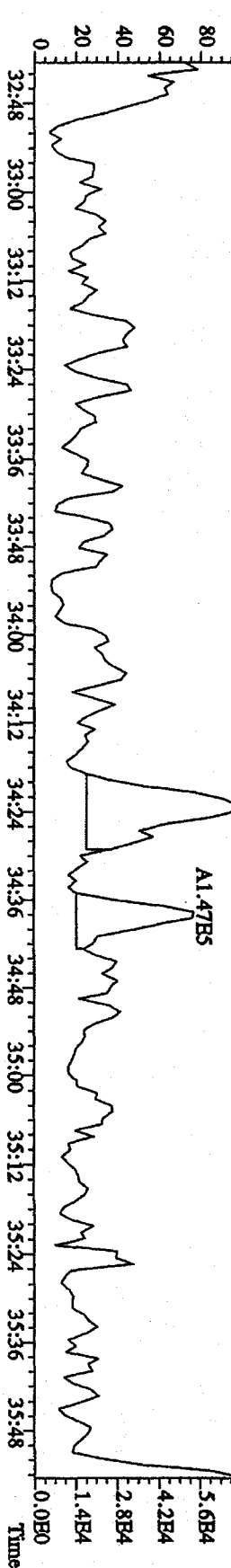
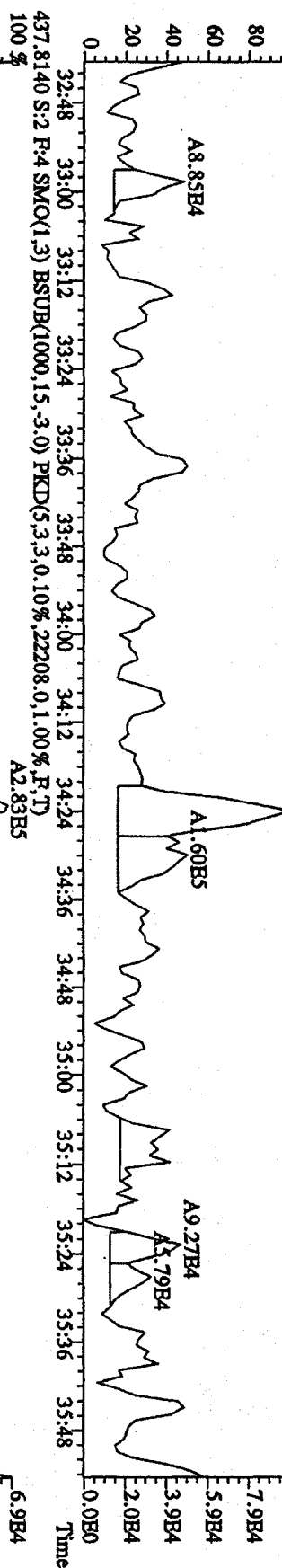
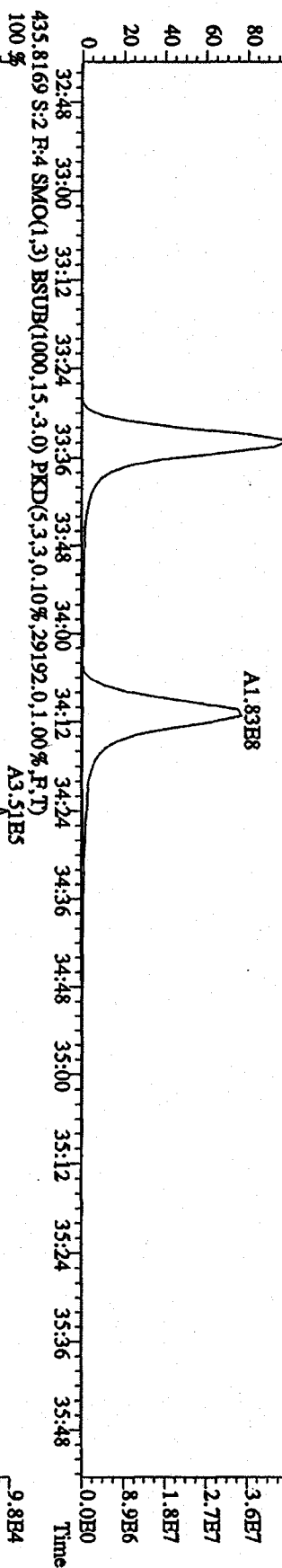
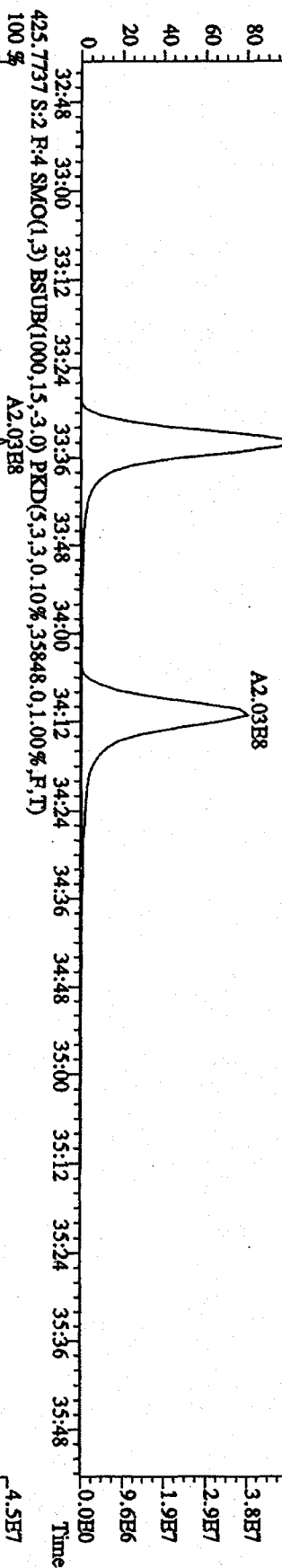
File:15DB091D5 #1-492 Acq:15-DEC-2009 11:11:01 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1215 :DB-5 CPSM 3732-04 Exp:DIOXIN
 389.8157 S:2 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,40352.0,1.00%,F,T)



File:15DHE091D5 #1-226 Acq:15-DEC-2009 11:11:01 GC HF+ Voltage SIR 70SH
 Sample#2 Text:CP1215 :DB-5 CPSM 3732-04 Exp:DIOXIN
 407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,124992.0,1.00%,F,T)
 100 %



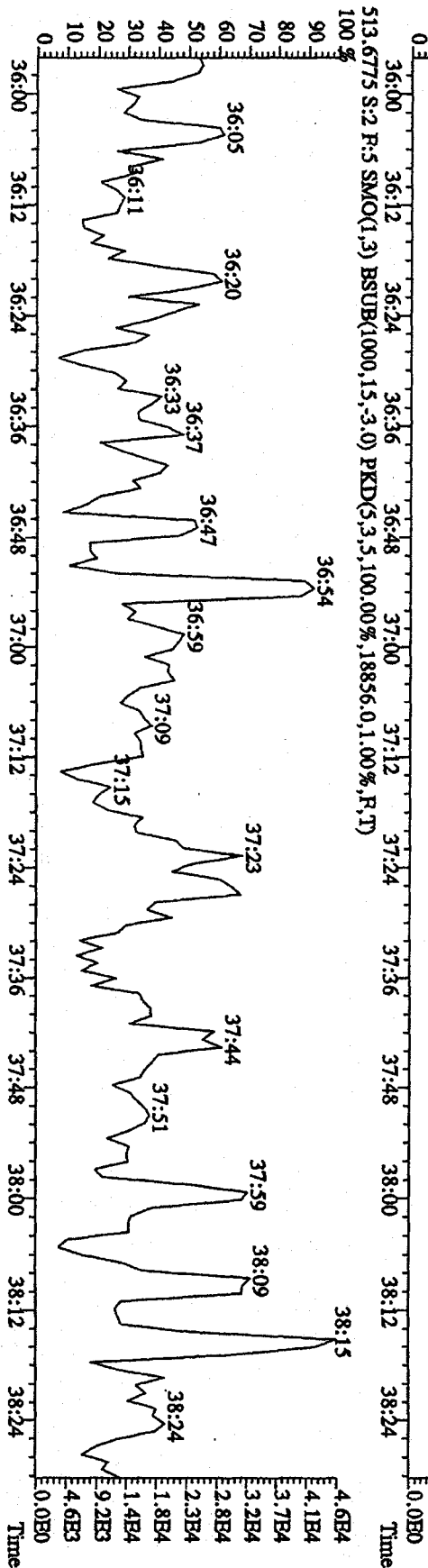
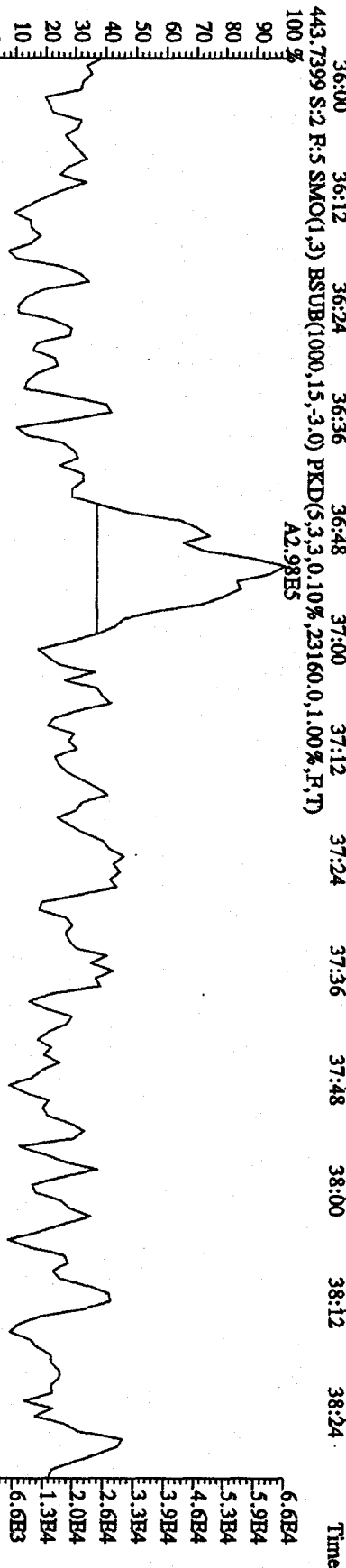
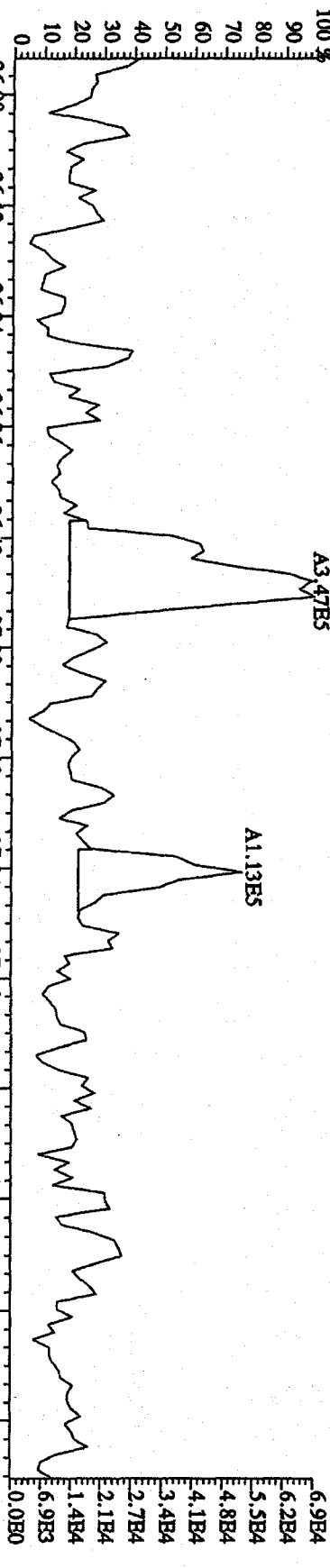
File:15DE091D5 #1-226 Acq:15-DEC-2009 11:11:01 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1215 :DB-5 CP5M 3732-04 Exp:DIOXIN
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,32096,0,1,00%,F,T)
 100%



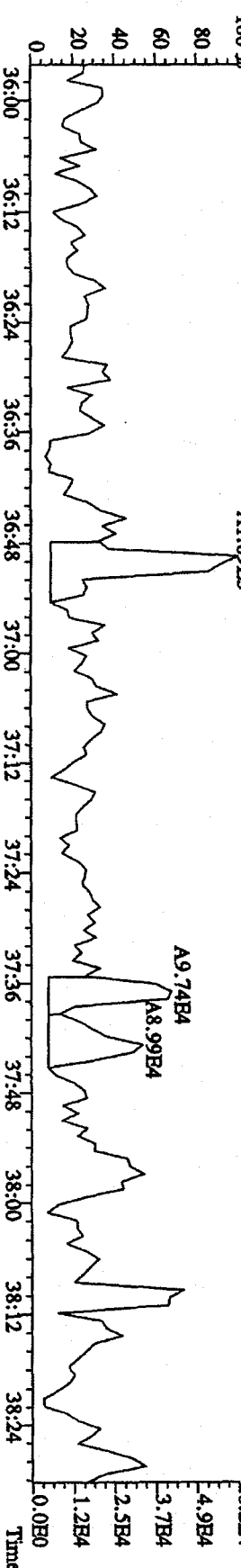
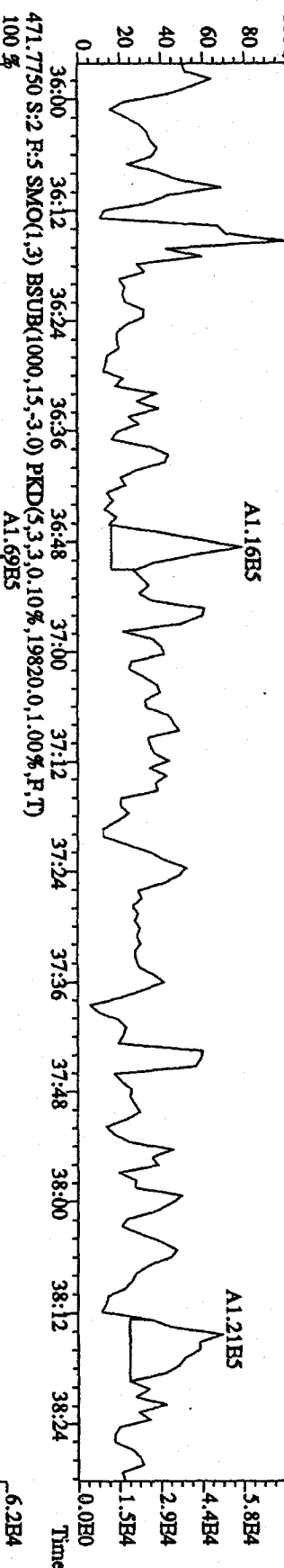
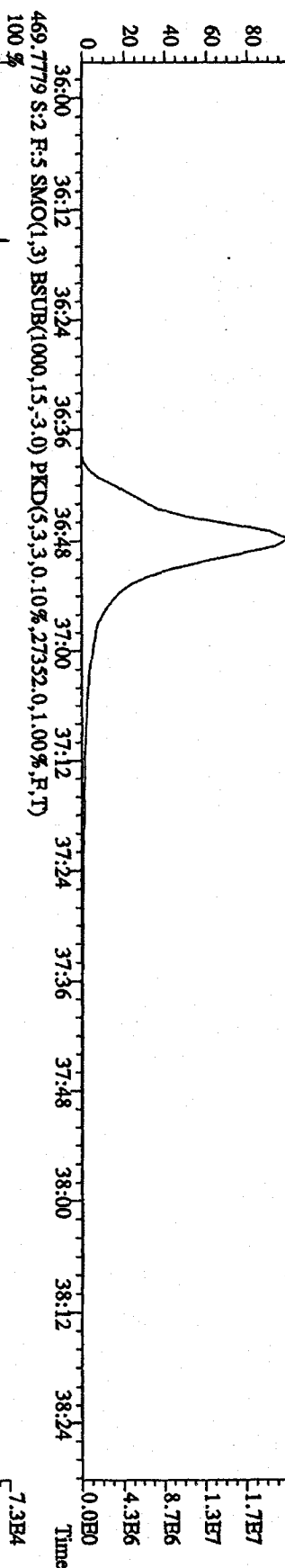
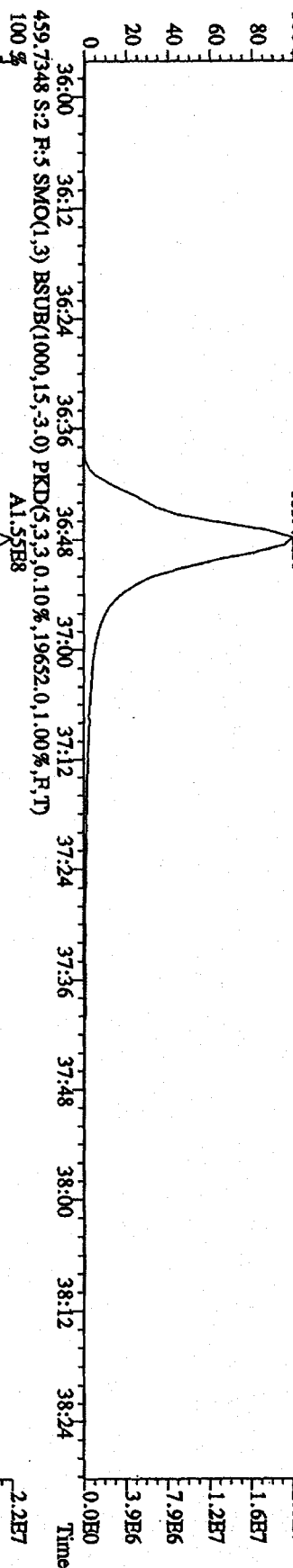
File: 15DB091D5 #1-186 Acq: 15-DEC-2009 11:11:01 GC HI+ Voltage SIR 70SE

Sample#2 Text: CP1215 :DB-5 CPSEM 3732-04 Exp: DIOXIN

441.7428 S:2 P:5 SMO(1.3) BSUB(1000,15,3.0) PKD(5.3,3.0,10%,17780,0.1,00%,F,T)

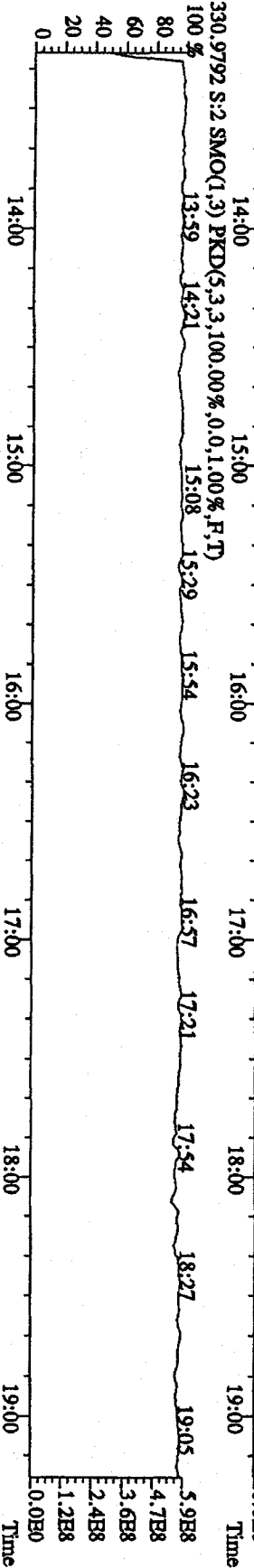
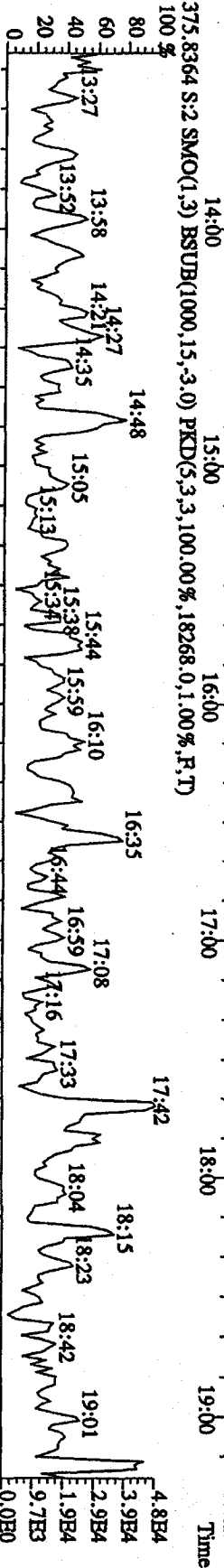
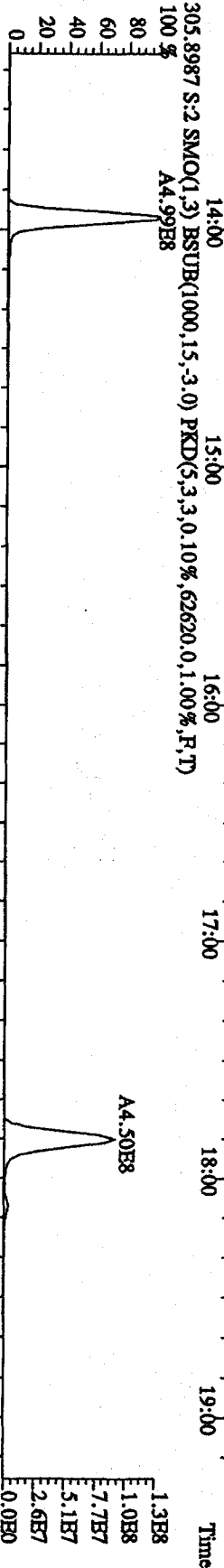
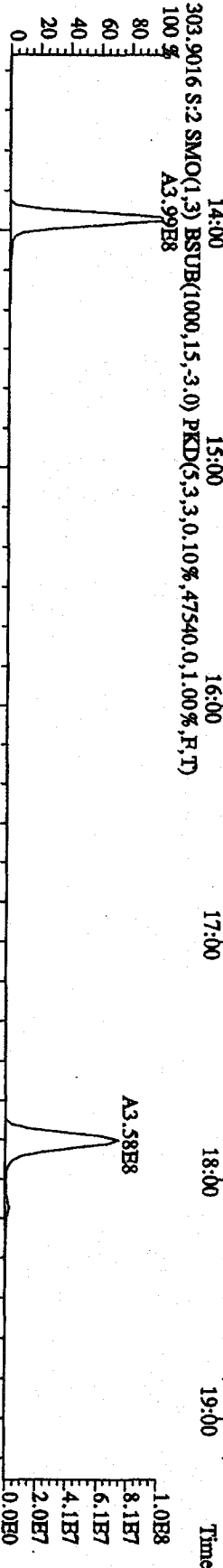
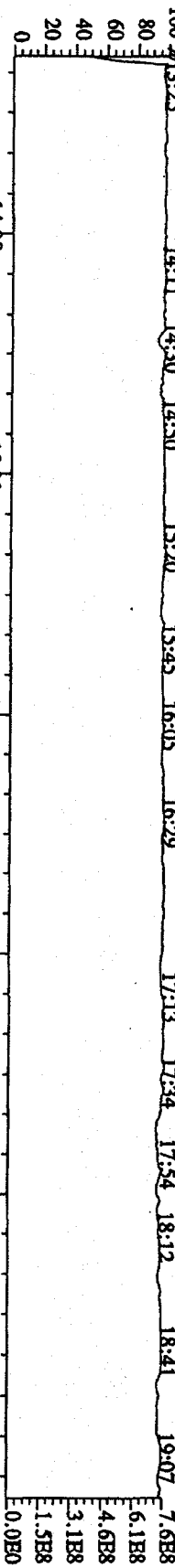


File:15DB091D5 #1-186 Acq:15-DEC-2009 11:11:01 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1215 :DB-5 CPSM 3732-04 Exp:DIOXIN
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,43120,0.1,0.00%,F,T)
 100 % A1.42E8

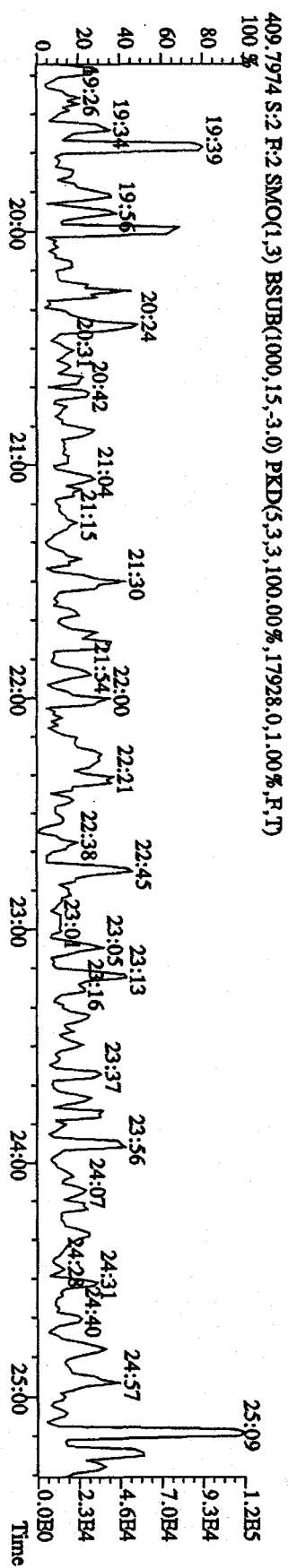
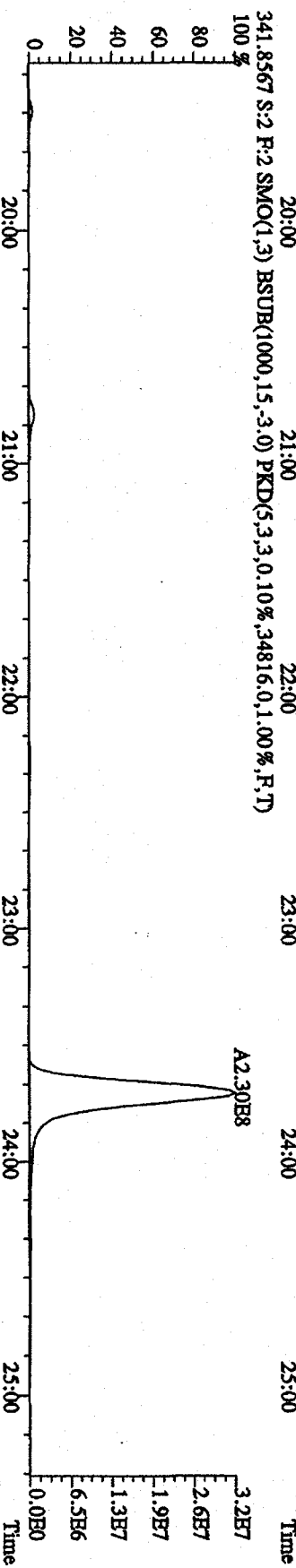
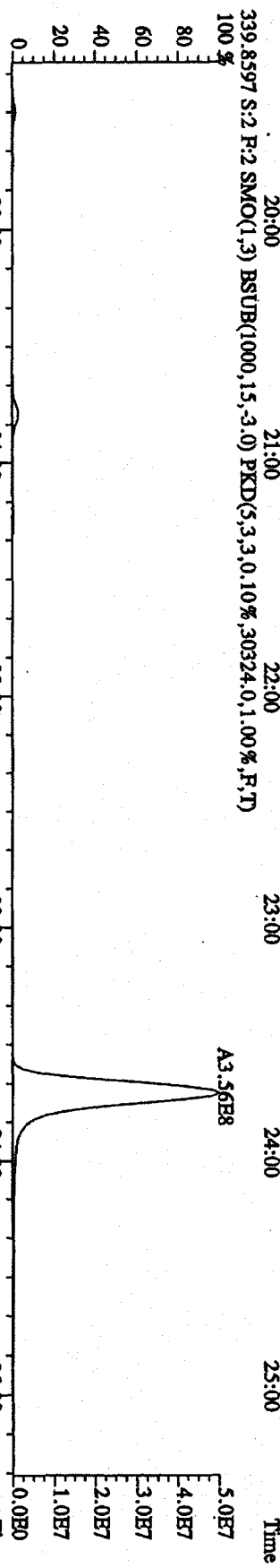
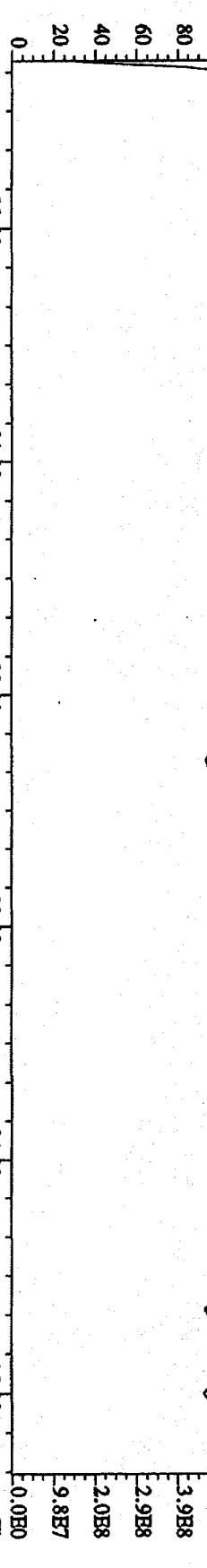


File:15DBE091D5 #1-355 Acq:15-DEC-2009 11:11:01 GC EI + Voltage SIR 70SB

Sample#2 Tent:CP1215 :DB-5 CPSM 3732-04 Exp:DIOXIN



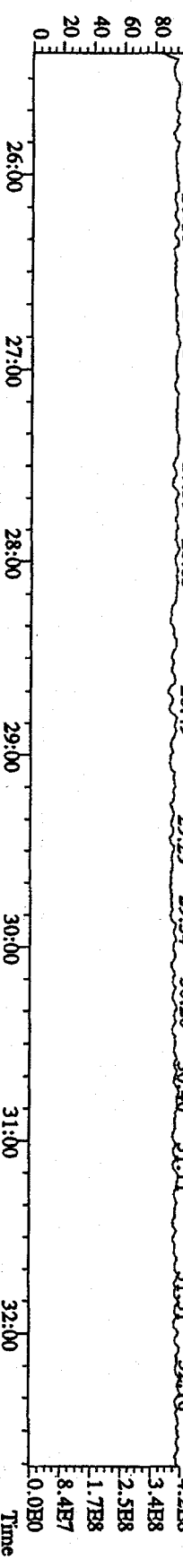
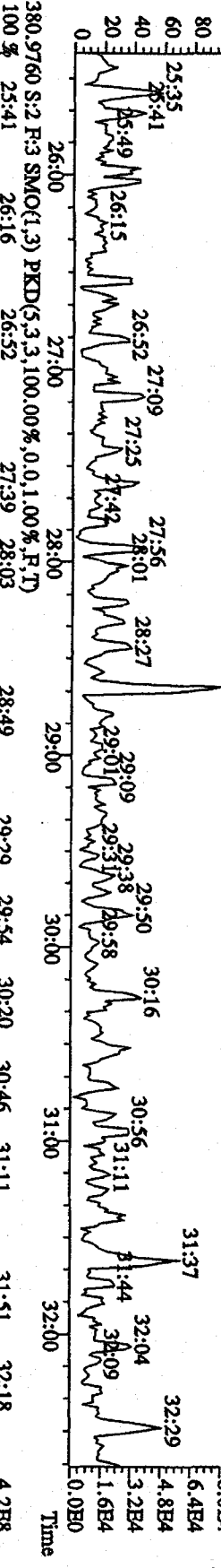
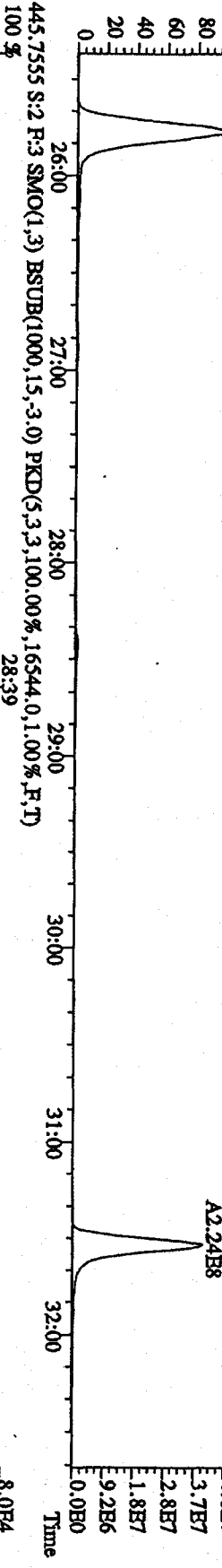
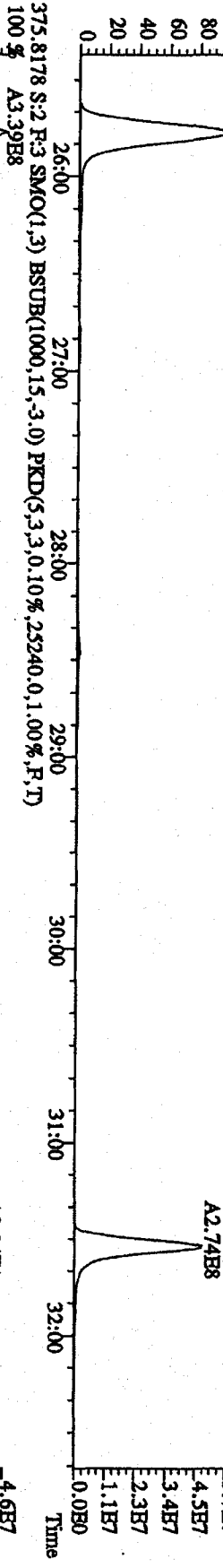
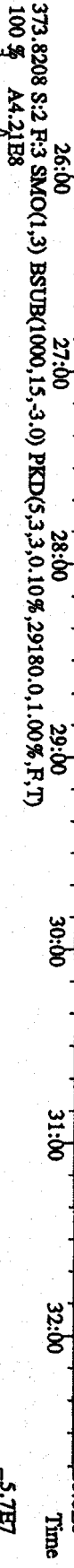
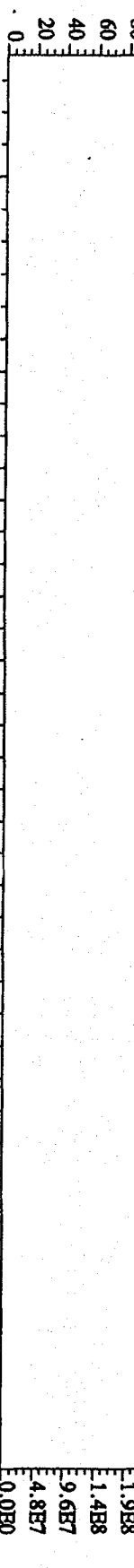
File:15DE091D5 #1-427 Acq:15-DEC-2009 11:11:01 GC HI+ Voltage SIR 70SB
 Sample#2 Text:CP1215 :DB-5 CBM 3732-04 Exp:DIOXIN
 342.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 19:45 20:04 20:41 21:16 21:37 22:09 22:45 23:11 24:01 24:30 24:54



File: 15DB09 ID5 #1-492 Acq: 15-DEC-2009 11:11:01 GC EI+ Voltage SIR 70SB

Sample# 7 Text: CP1215 : DB-5 CPISM 3732-04 Exp: DIOXIN

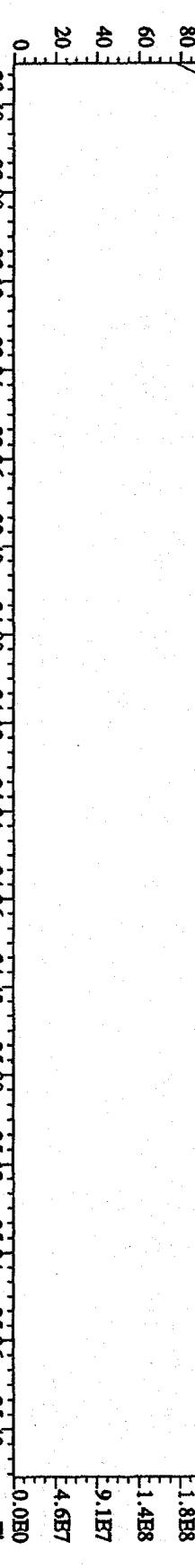
392.9760 S:2 F:3 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T) 26:14 26:52 27:21 27:51 28:26 28:50 29:21 29:56 30:21 30:46 31:14 31:39 32:17



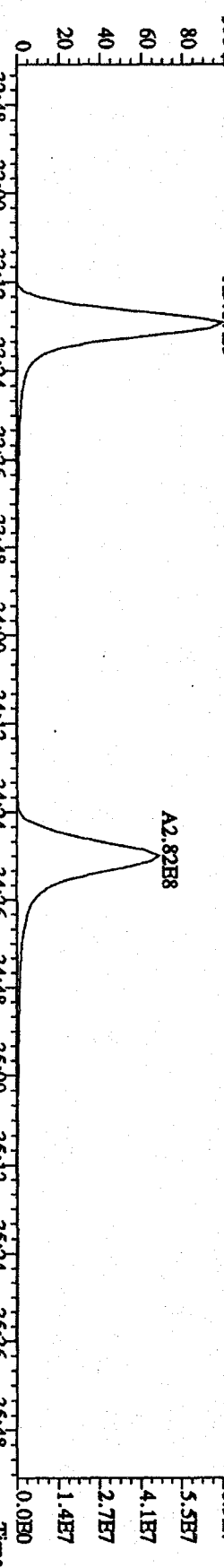
File:15DB091D5 #1-226 Acq:15-DB0C-2009 11:11:01 GC RI+ Voltage SIR 70SB

Sample#2 Text:CP1215 :DB-5 CPSM 3732-04 Exp:DI0XIN

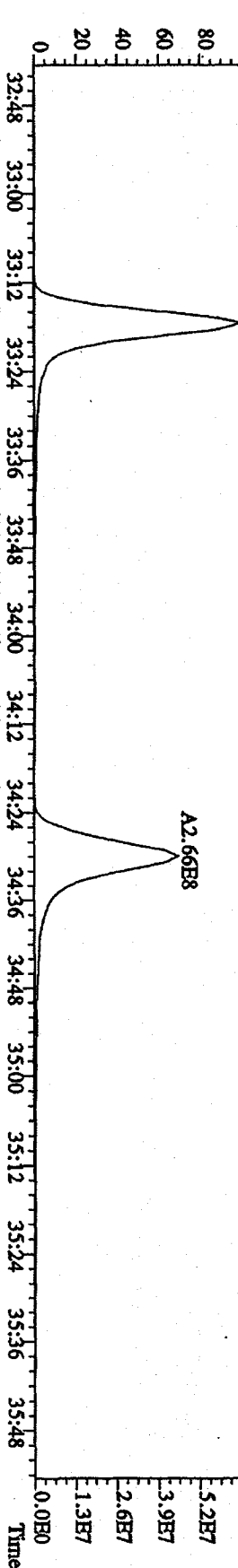
430.9728 S:2 R:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



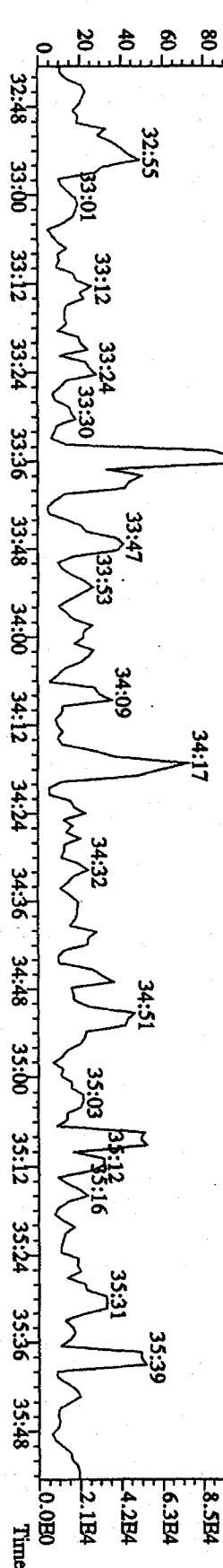
407.7818 S:2 R:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,124992,0,1.00%,F,T)



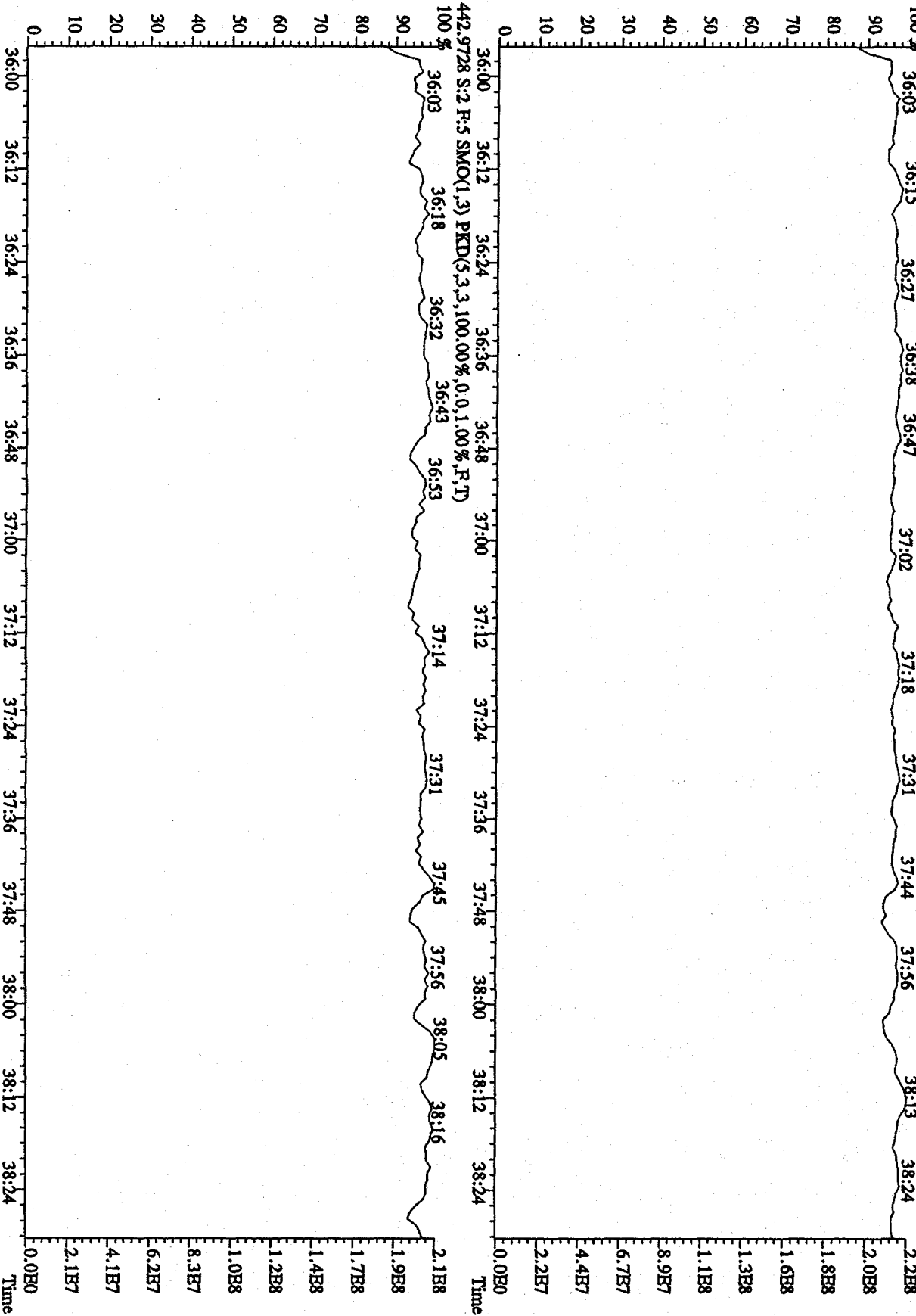
409.7789 S:2 R:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,106888,0,1.00%,F,T)



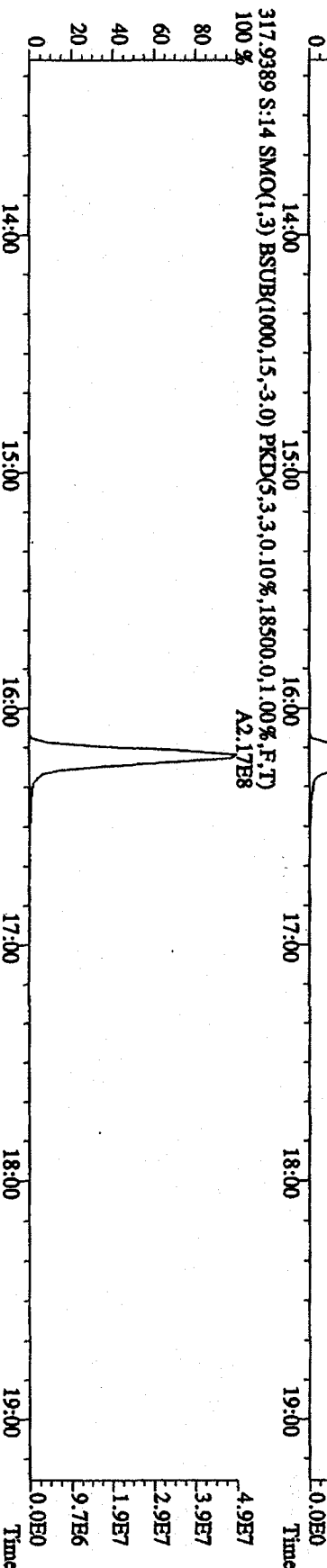
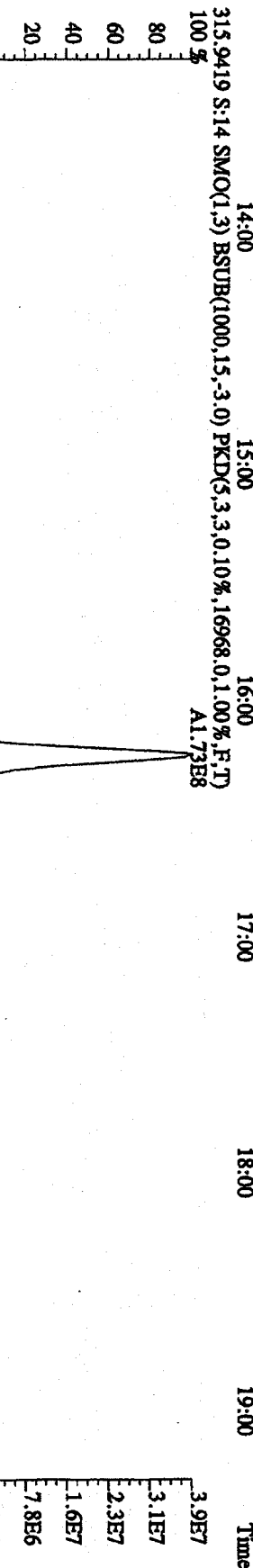
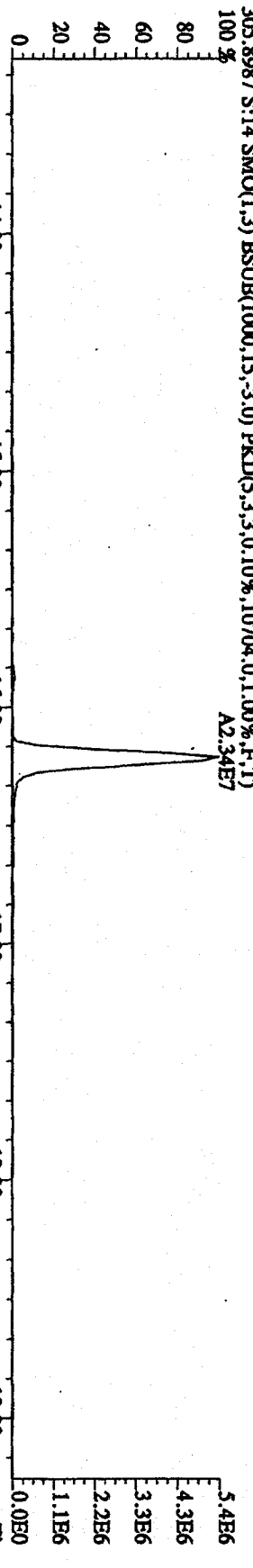
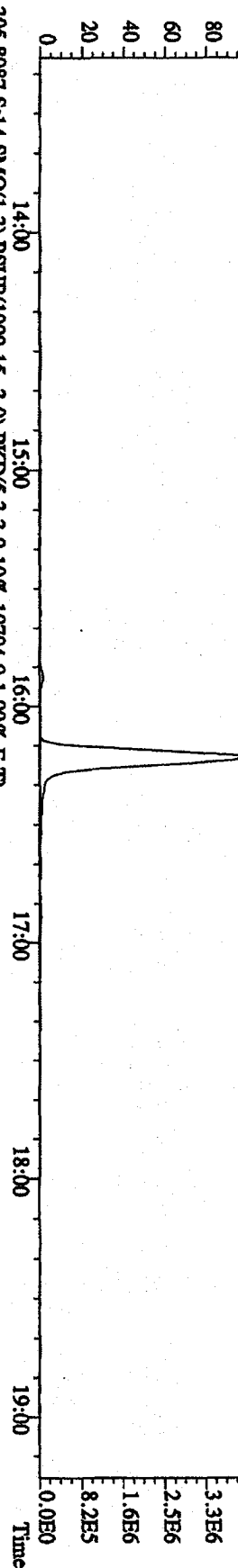
479.7165 S:2 R:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,20436,0,1.00%,F,T)



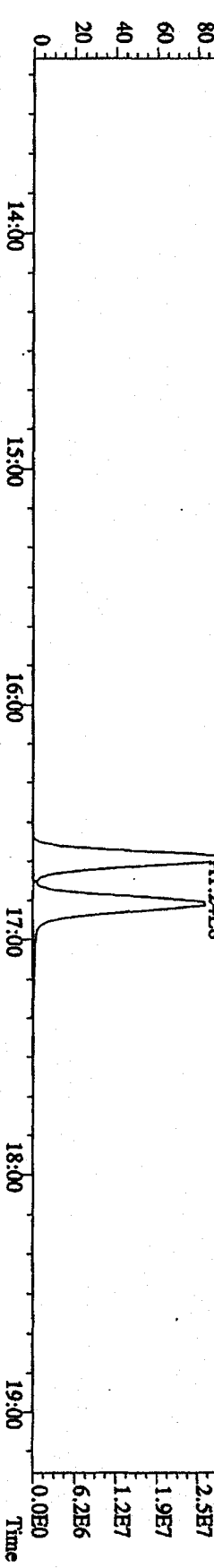
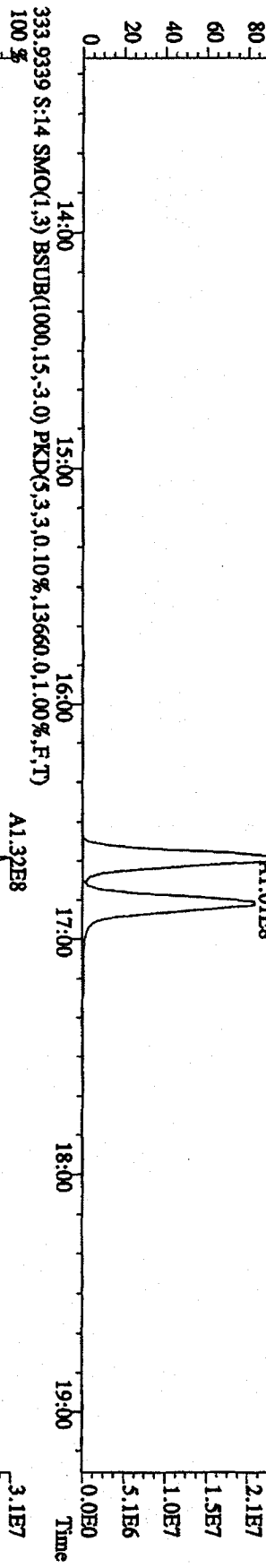
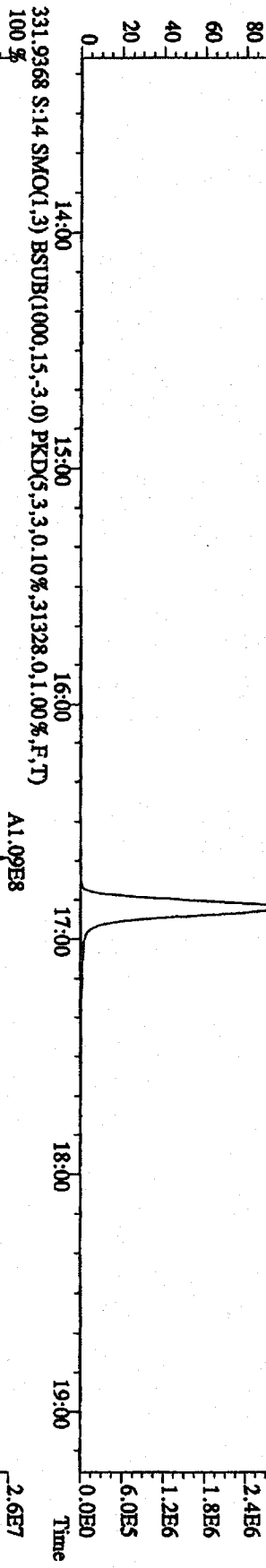
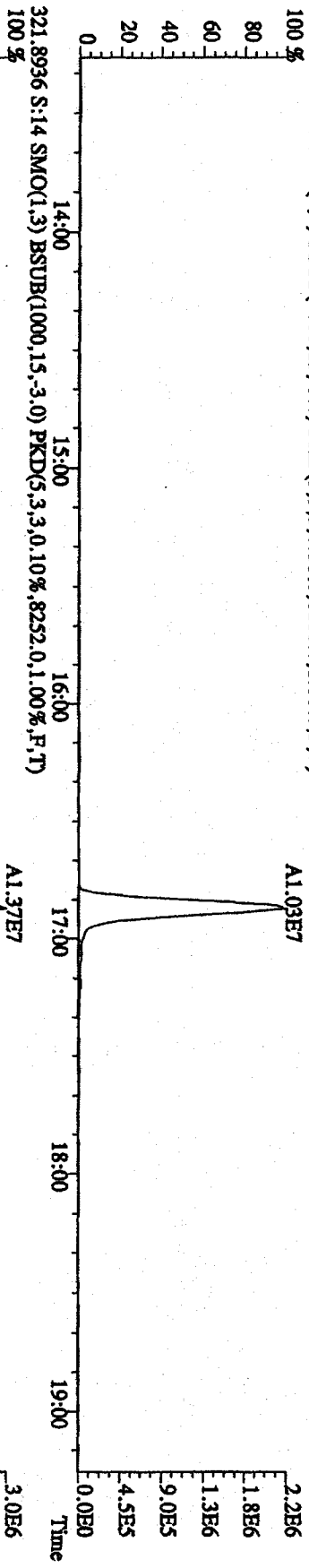
File: 15DE091D5 #1-186 Acq: 15-DEC-2009 11:11:01 GC HI + Voltage SIR 70SE
 Sample#2 Text: CP1215 :DB-5 CPSM 3732-04 Exp: DIOXIN
 454.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 %



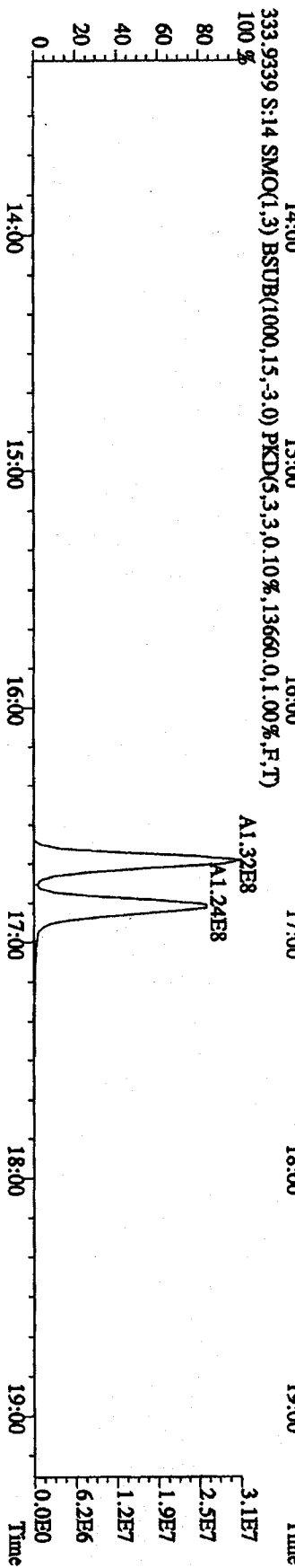
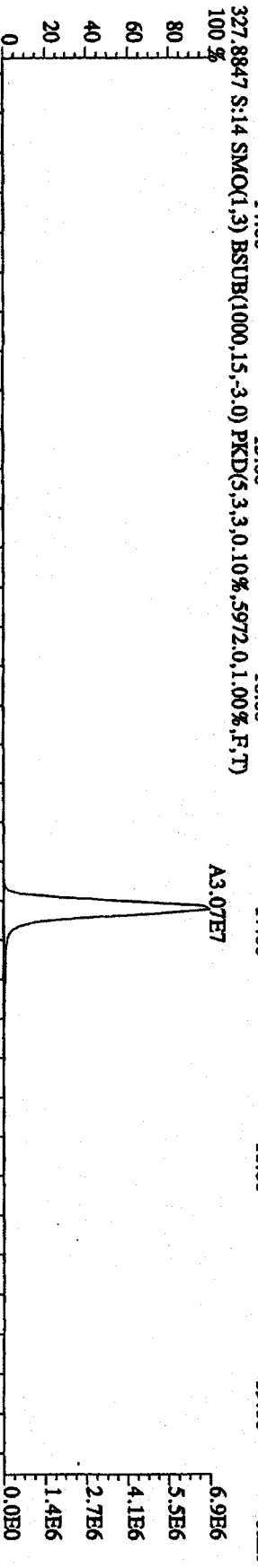
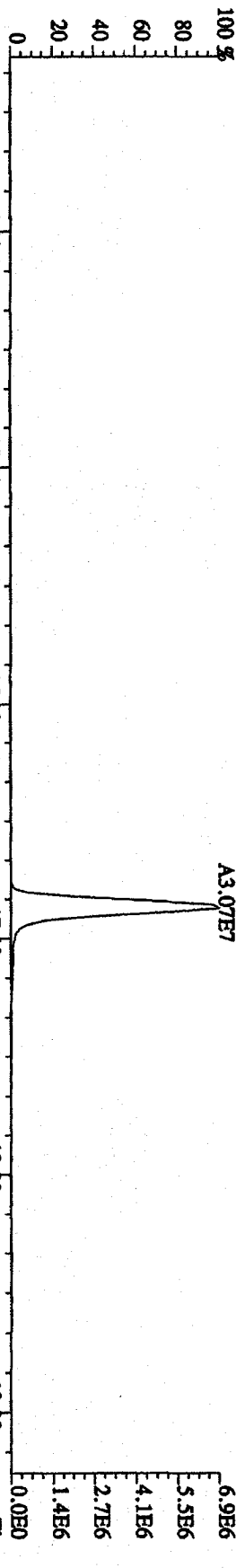
File:15DE091D5 #1-355 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SDR 70SE
 Sample#14 Text:ST1215L :2nd Source 3249-38 Exp:DIOXIN
 303.9016 S:14 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8188,0.1,00%,F,T)
 100% A1.80E7



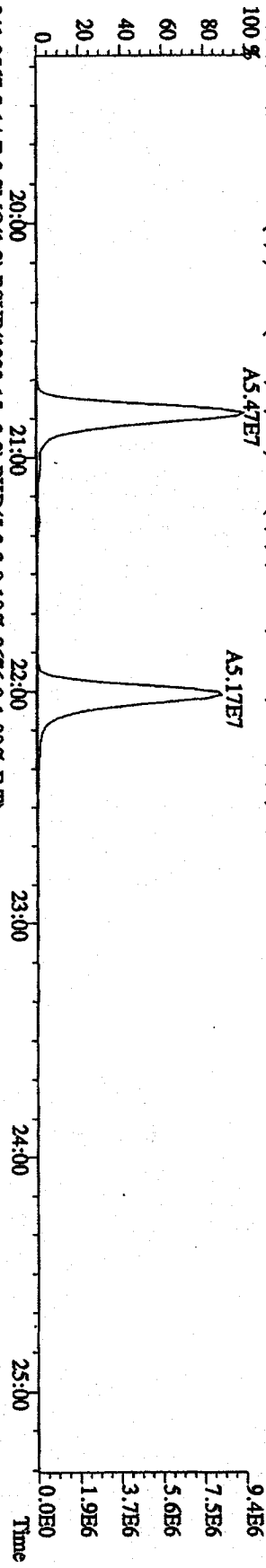
File:15DEC091D5 #1-355 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SRR 70SE
 Sample#14 Text:ST1215L :2nd Source 3249-38 Exp:DIOXIN
 319.8965 S:14 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,6180,0,1,00%,F,T)
 100%



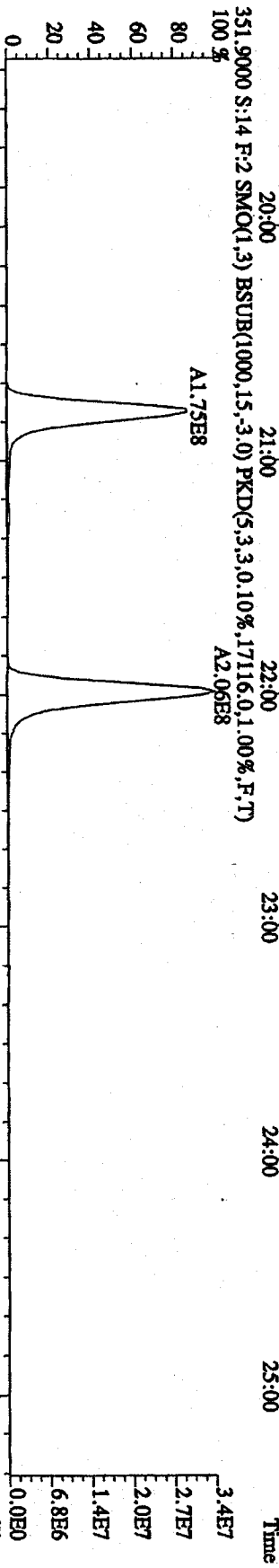
File:15DE091D5 #1-355 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE
 Sample#14 Text:ST1215L :2nd Source 3249-38 Exp:DIOXIN
 327.8847 S:14 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,.5972,0.1,00%,F,T) 100%



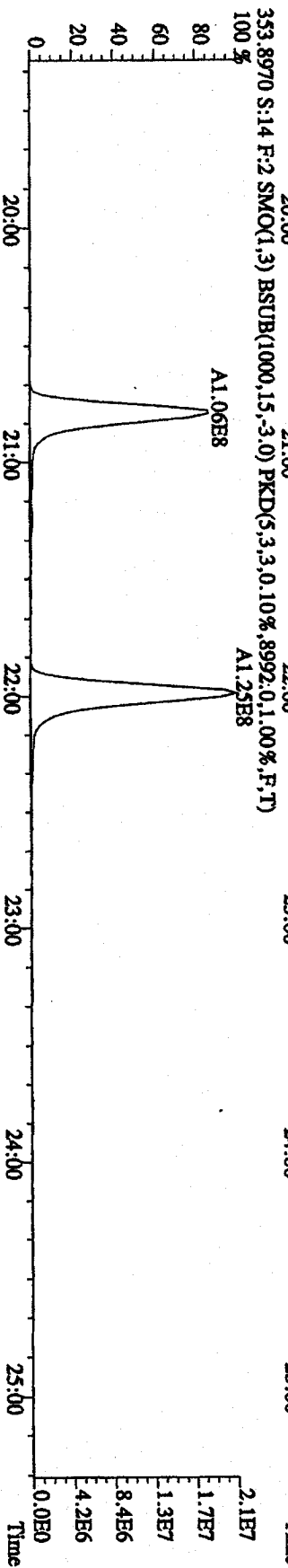
File:15DE091D5 #1-427 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE
 Sample#14 Text:ST1215L 2nd Source 3249-38 Exp:DIOXIN
 339.8597 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.9424,0.1,00%,F,T)
 100 % A5.47E7



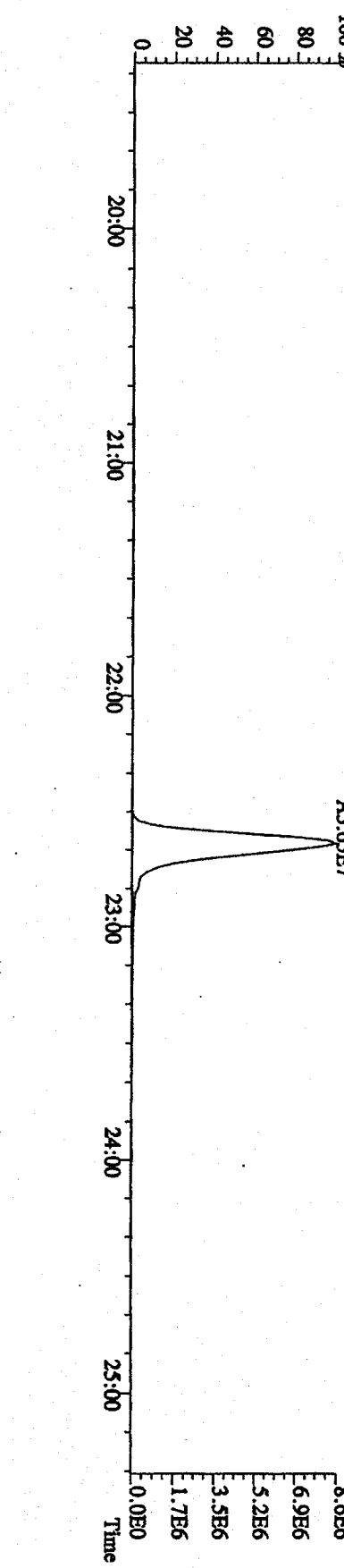
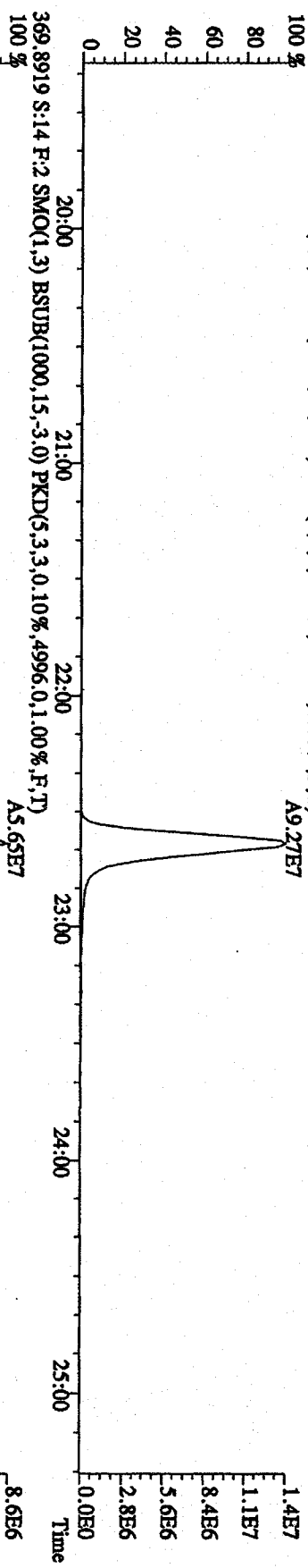
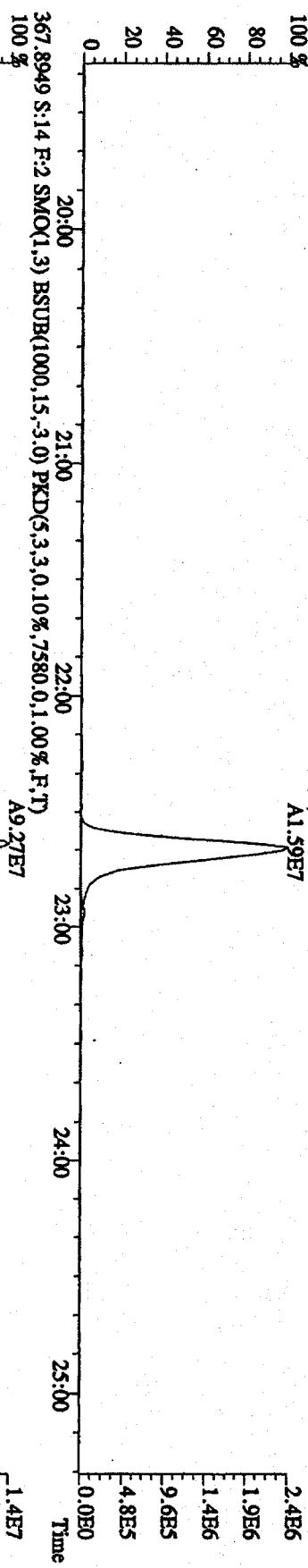
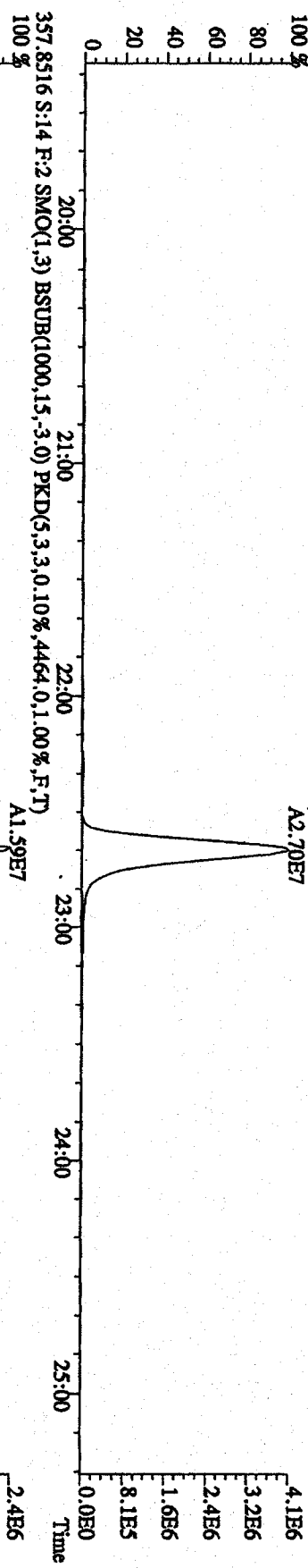
341.8567 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.8676,0.1,00%,F,T)
 100 % A3.39E7



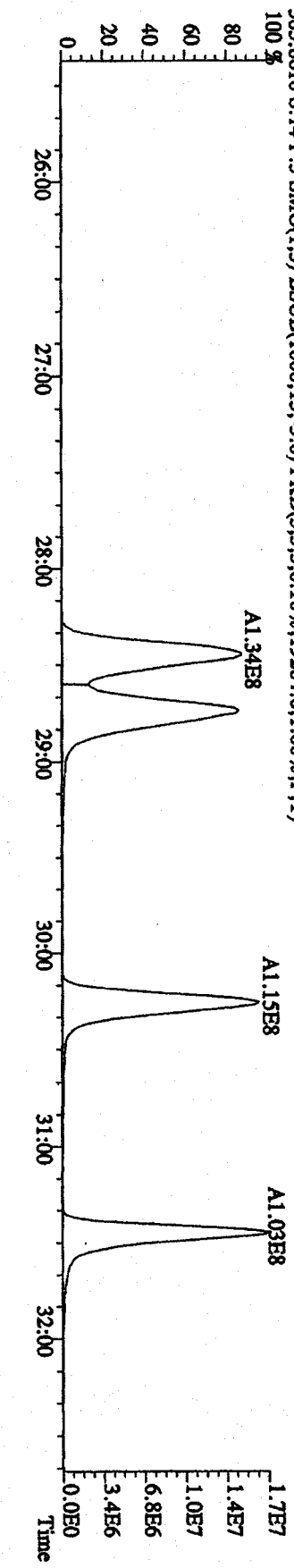
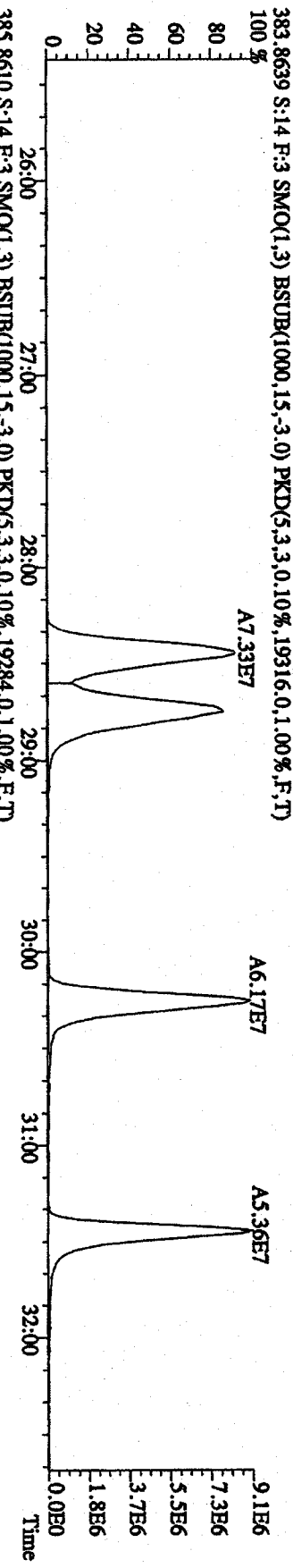
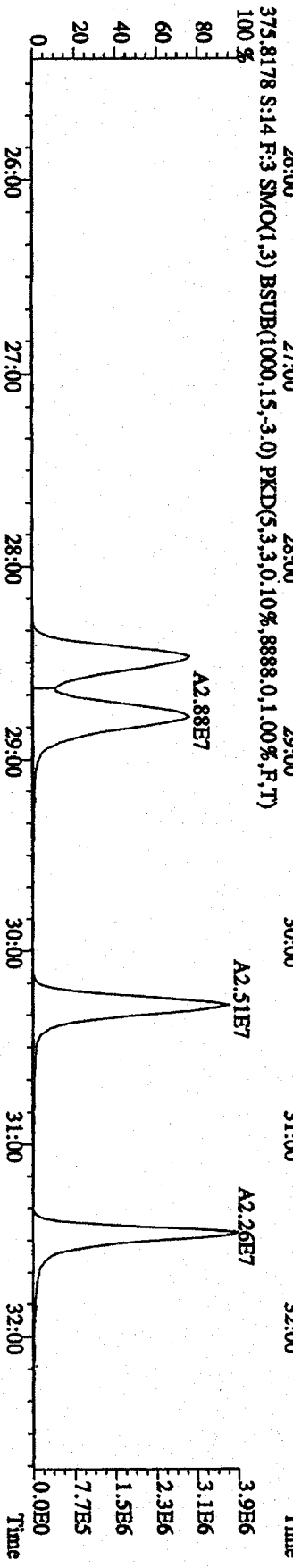
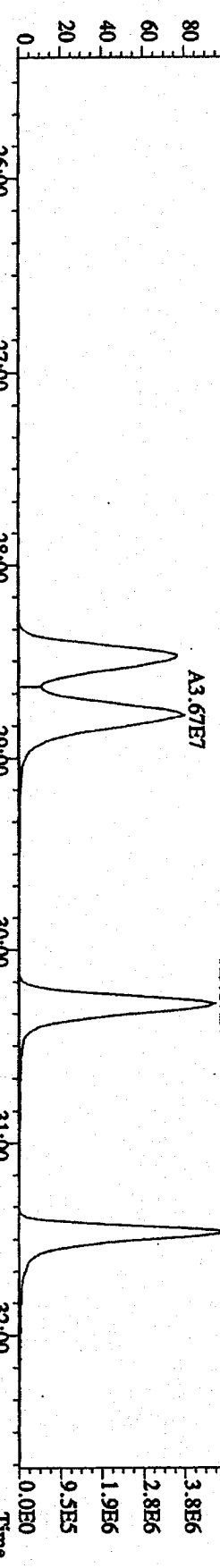
353.8970 S:14 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,.8992,0.1,00%,F,T)
 100 % A1.06E8 A1.25E8



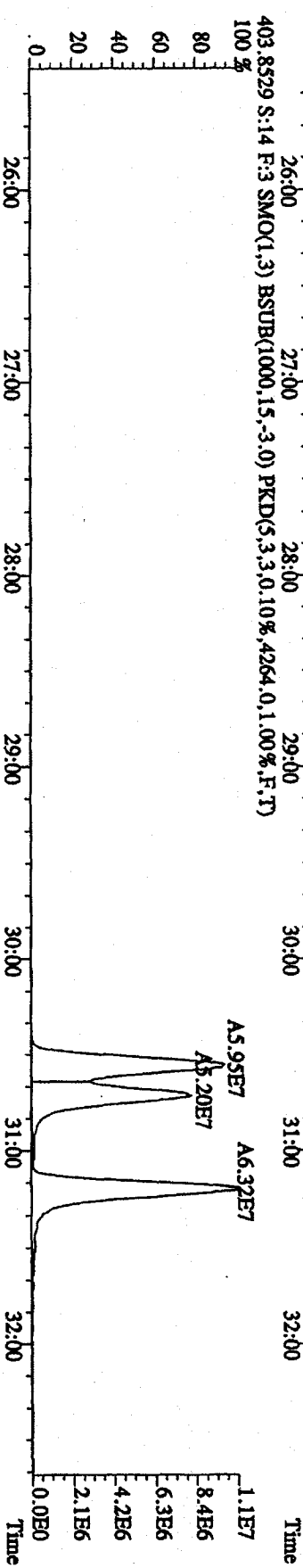
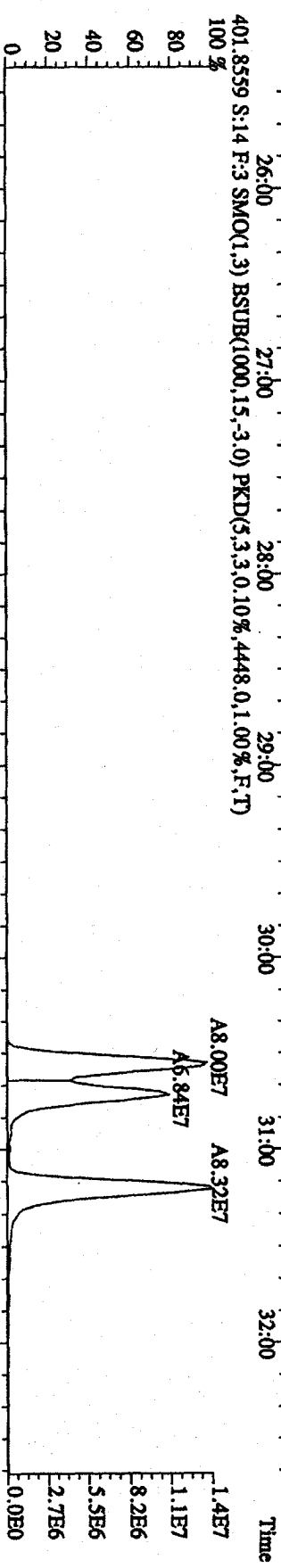
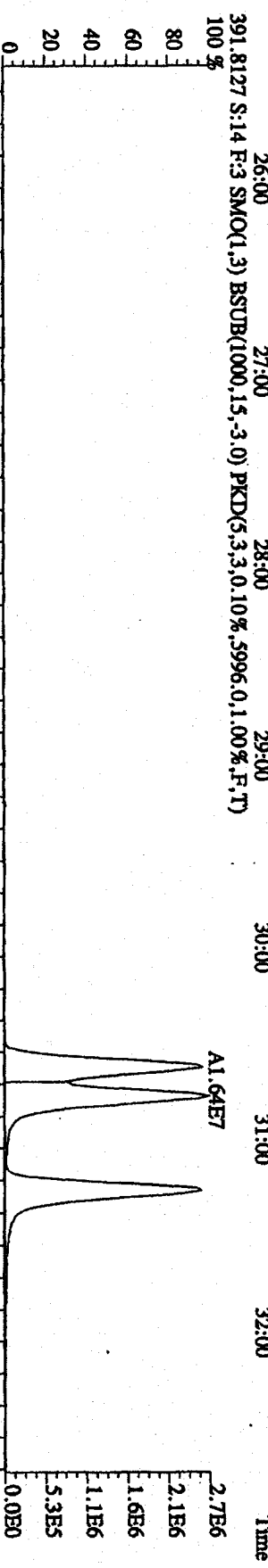
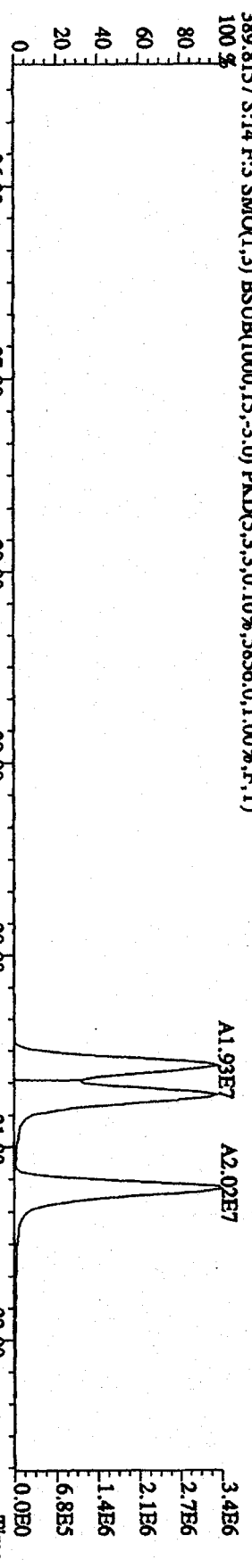
File:15DB091D5 #1-427 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE
 Sample#14 Text:ST1215L 2nd Source 3249-38 Exp:DIOXIN
 355.8546 S:14 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.6504,0.1,0.0%,.F,T)
 100 %



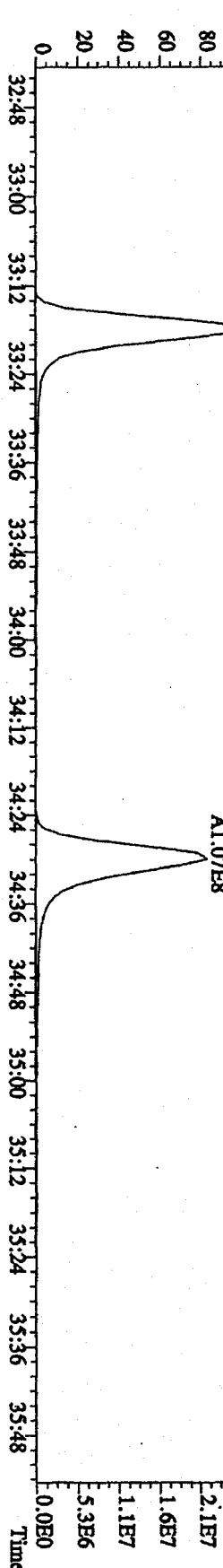
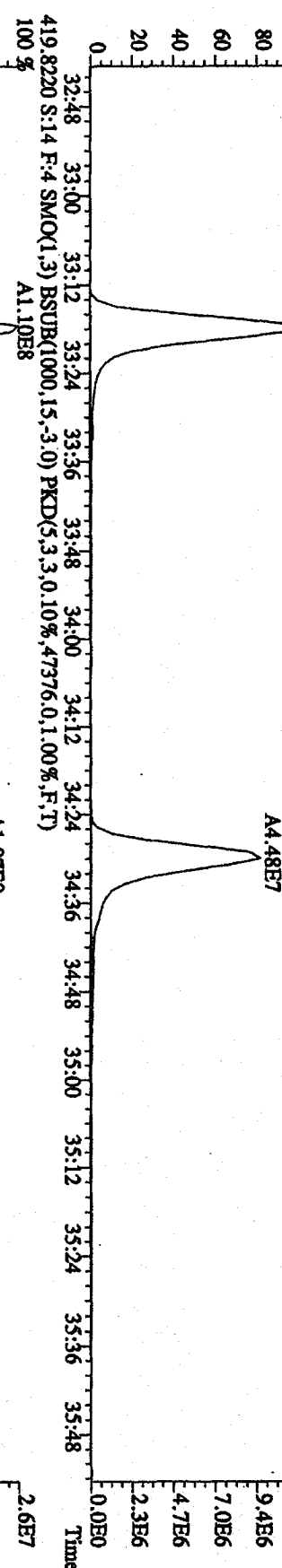
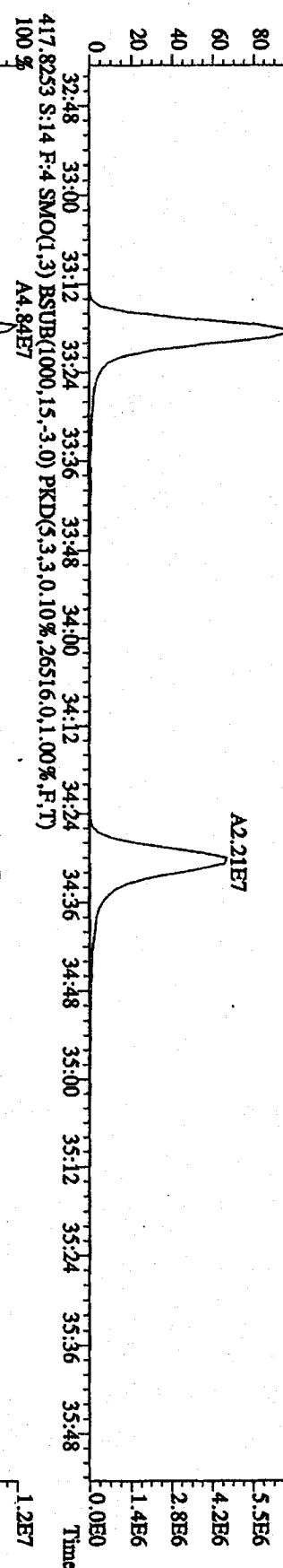
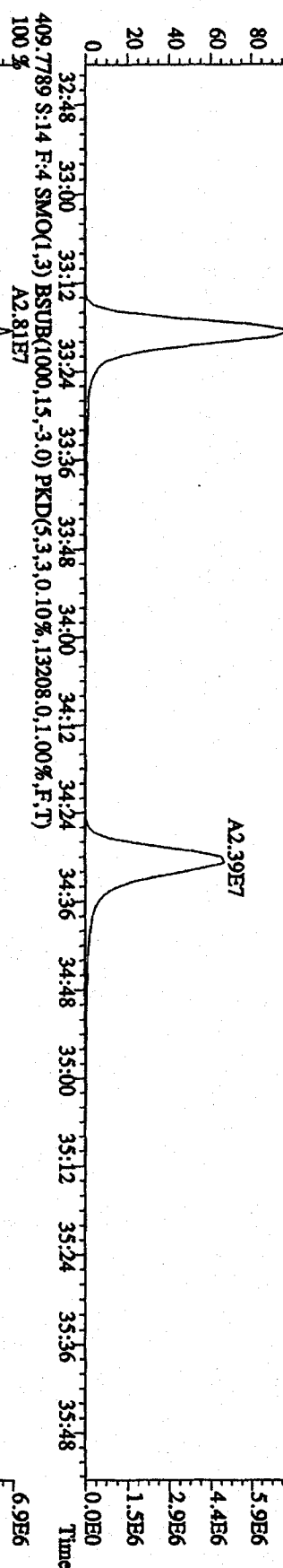
File:15DE091D5 #1-492 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE
 Sample#14 Text:ST1215L :2nd Source 3249-38 Exp:DIOXIN
 373.8208 S:14 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,11984,0.1,00%,F,T)
 100 %



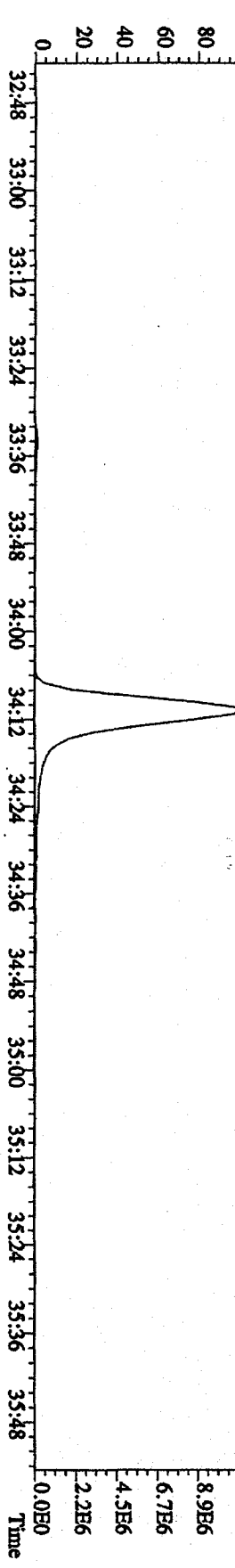
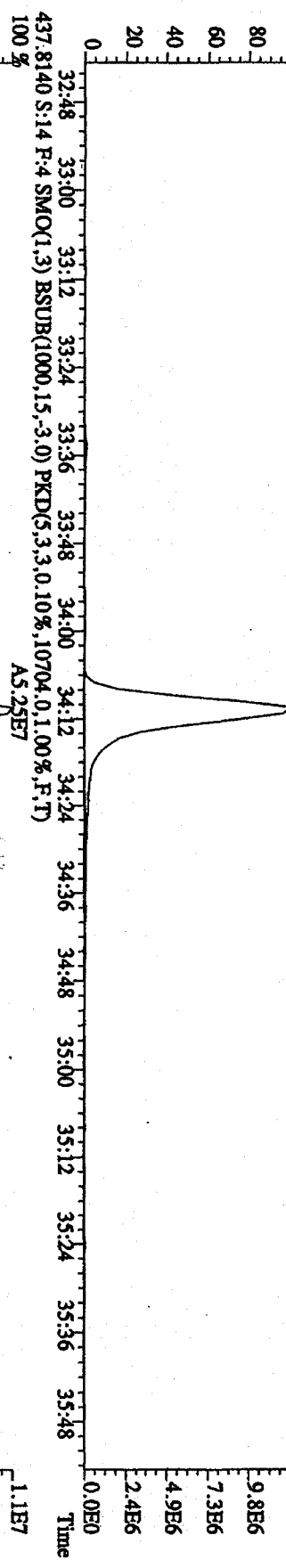
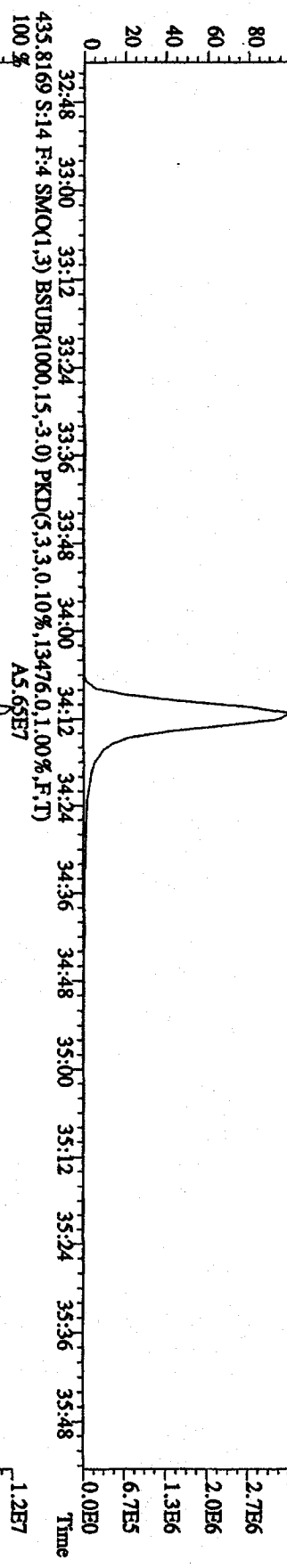
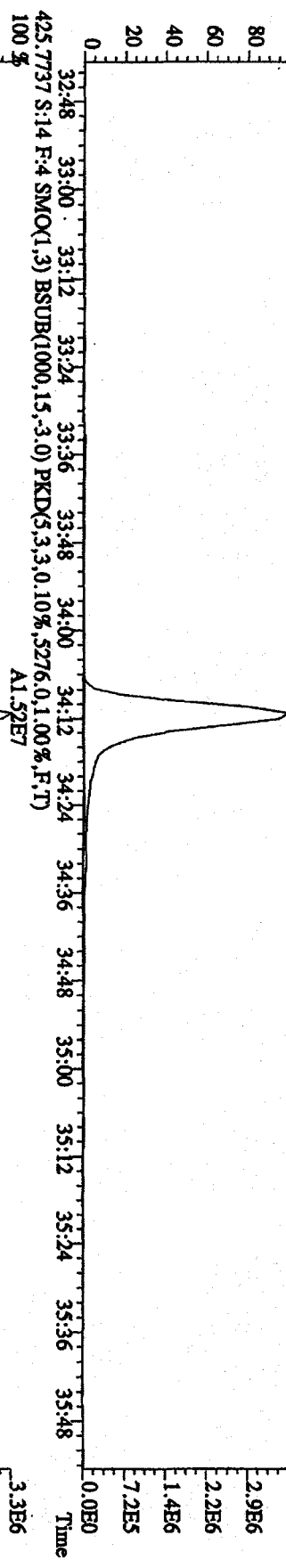
File:15DE091D5 #1-492 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE
 Sample#14 Text:ST1215L :2nd Source 3249-38 Exp:DIOXIN
 389.8157 S:14 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0.10%,.5856,0.1,0.0%,.F,T)
 100 %



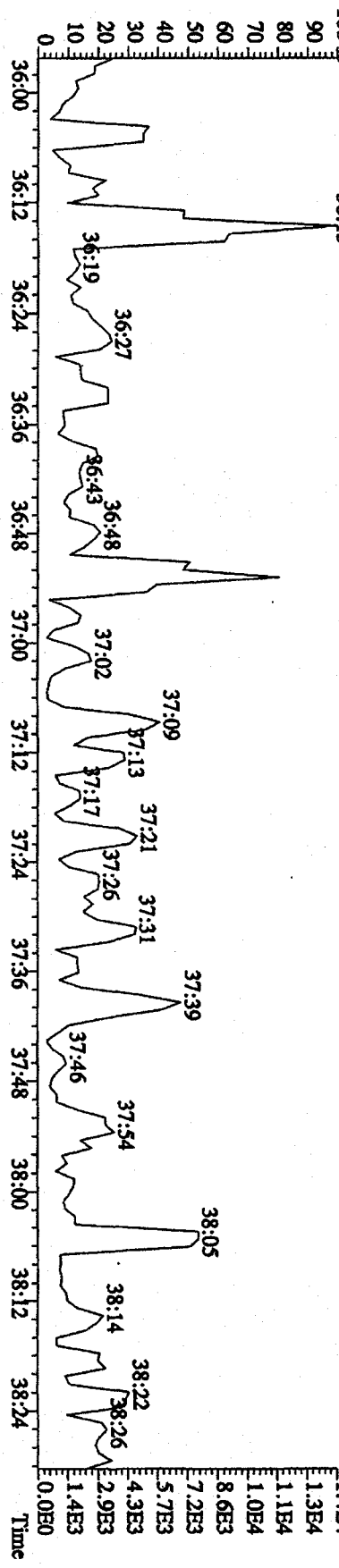
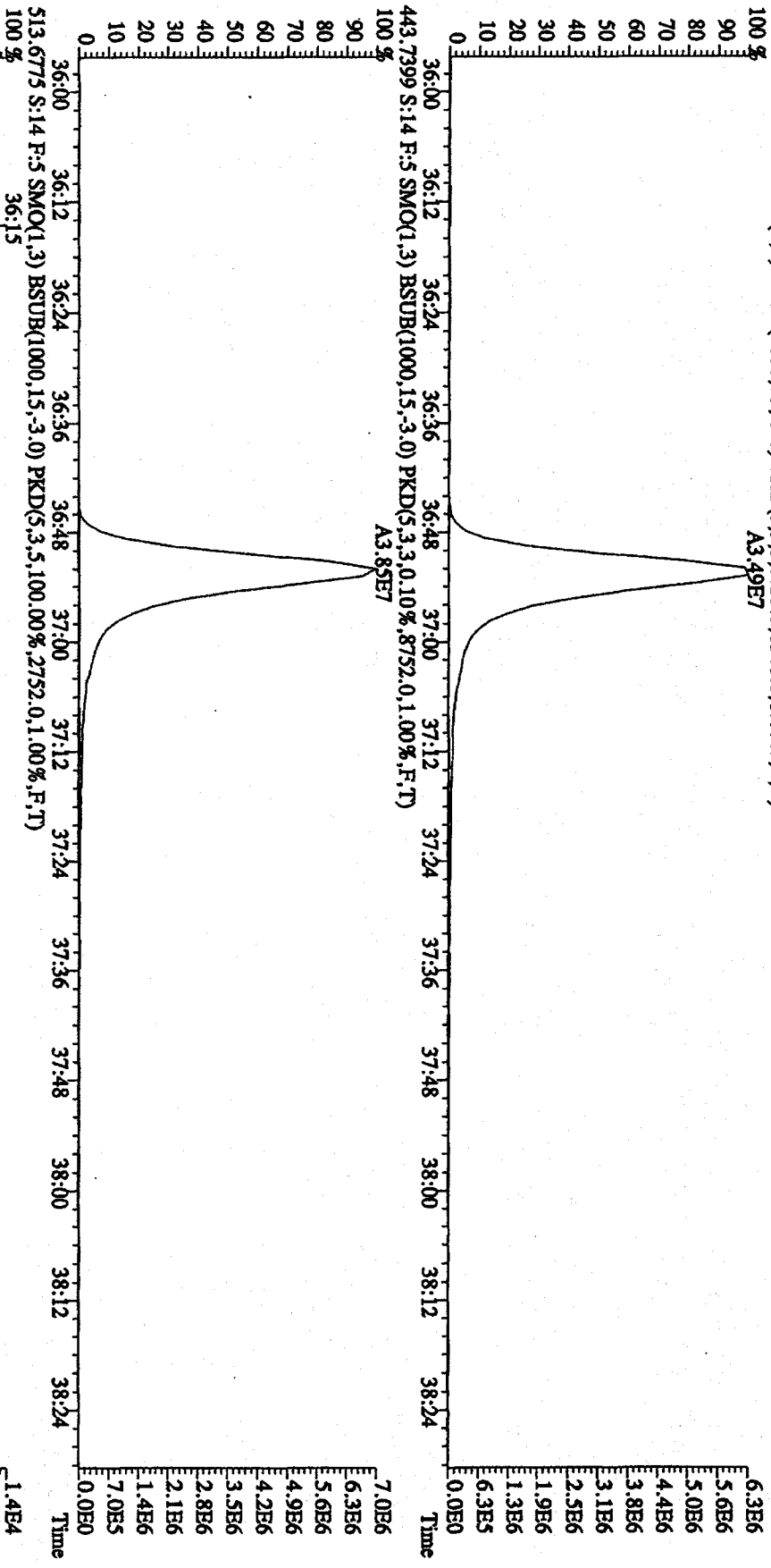
File:15DE091D5 #1-226 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE
 Sample#14 Text:ST1215L 2nd Source 3249-38 Exp:DIOXIN
 407.7818 S:14 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5984,0.1,00%,F,T)
 100 %



File:15DE091D5 #1-226 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE
 Sample#14 Text:ST1215L 2nd Source 3249-38 Exp:DIOXIN
 423.7766 S:14 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5956.0,1.00%,F,T)
 100%



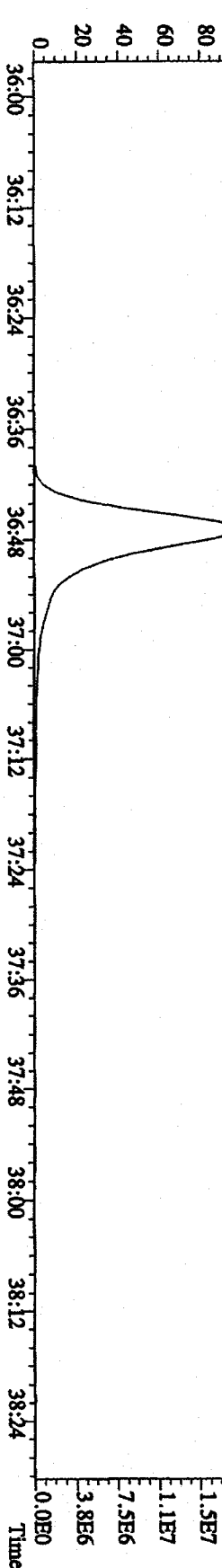
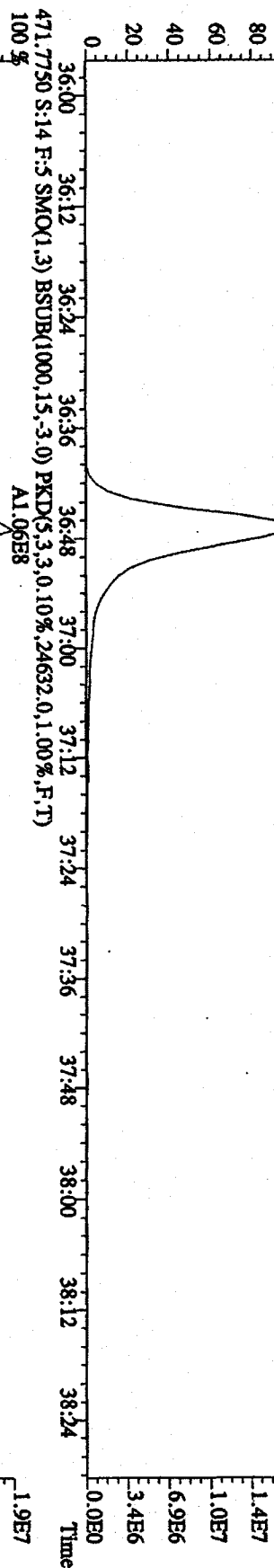
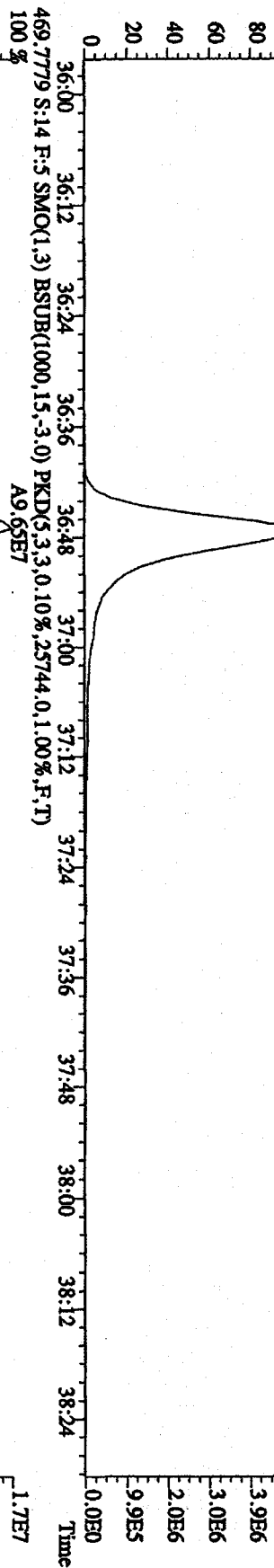
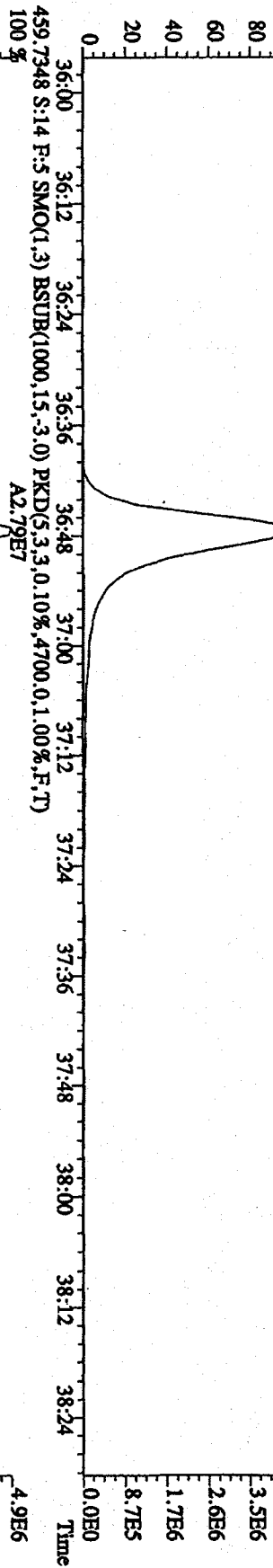
File:15DE091D5 #1-186 Acq:15-DEC-2009 19:35:13 GC EI + Voltage SRR 70SE
 Sample#14 Text:ST1215L :2nd Source 3249-38 Exp:DIOXIN
 441.7428 S:14 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,8340,0,1,00%,F,T)
 100% A3.49E7



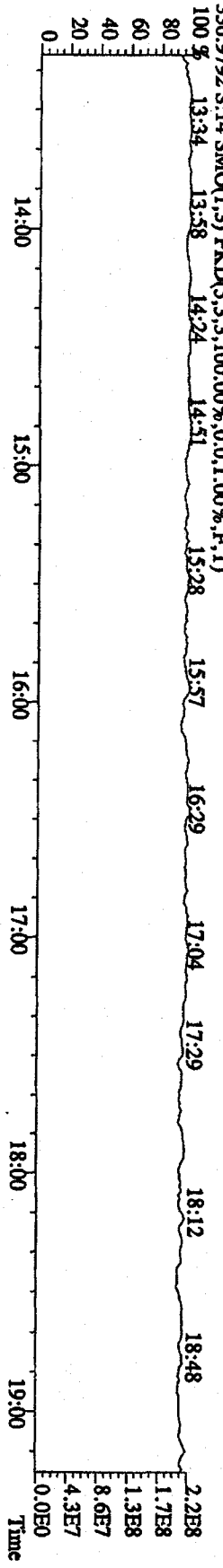
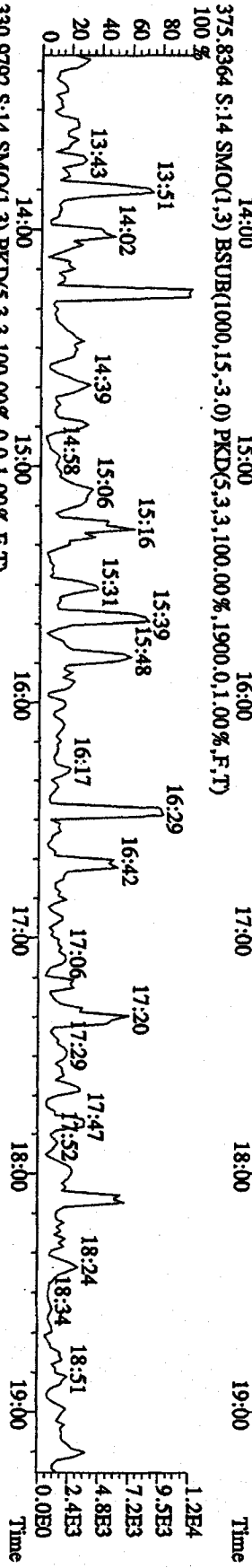
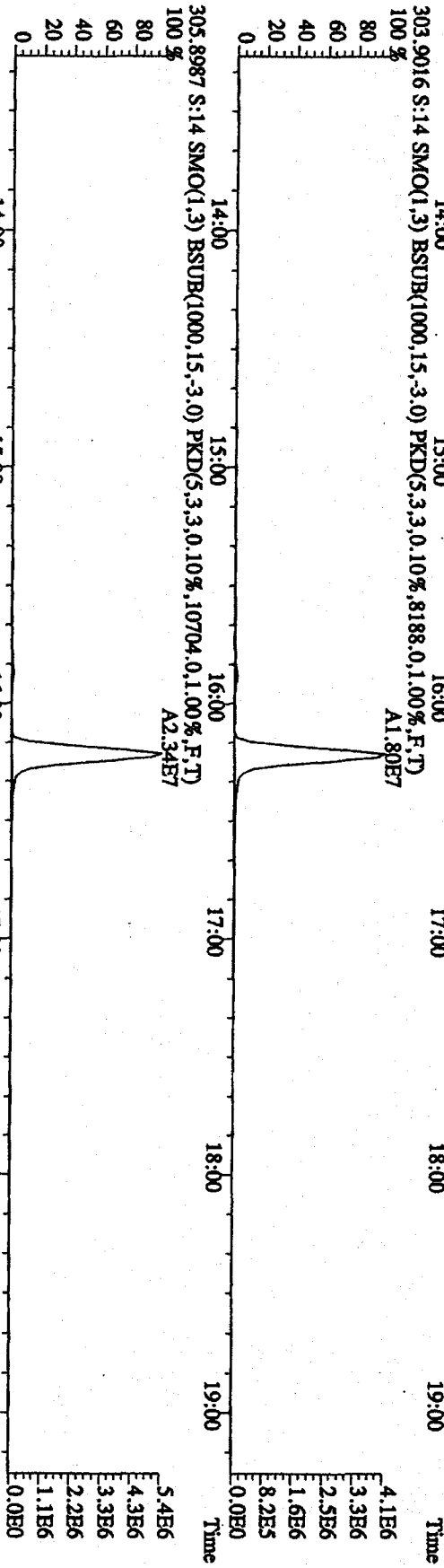
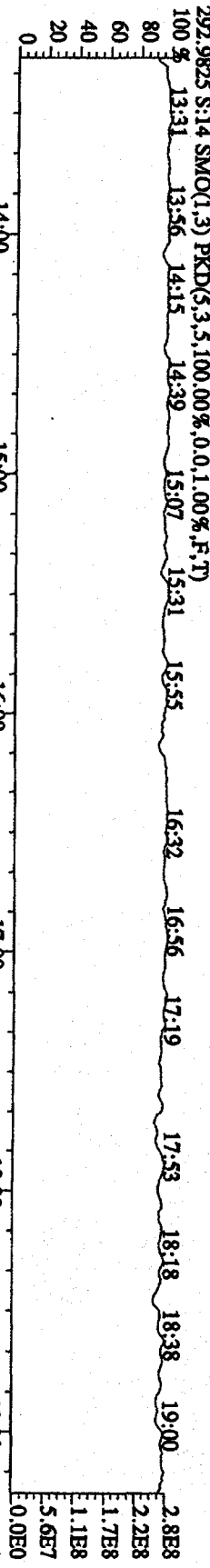
File:15DEE091D5 #1-186 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE

Sample#14 Text:ST1215L :2nd Source 3249-38 Exp:DIOXIN

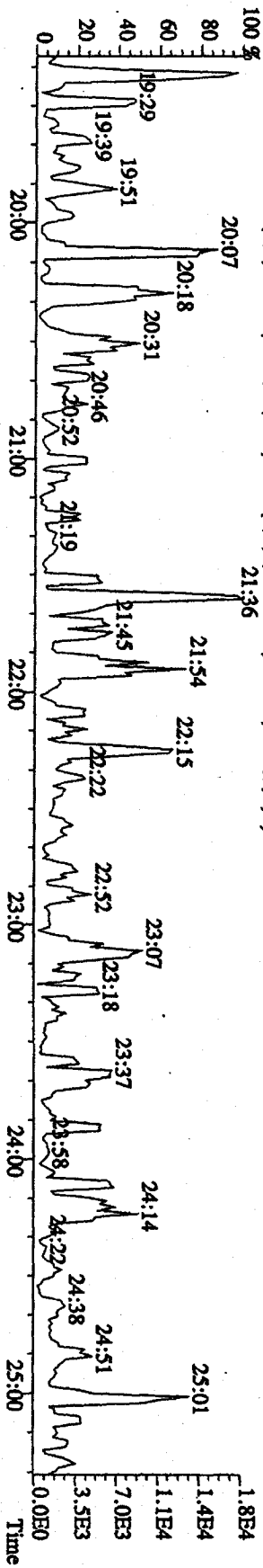
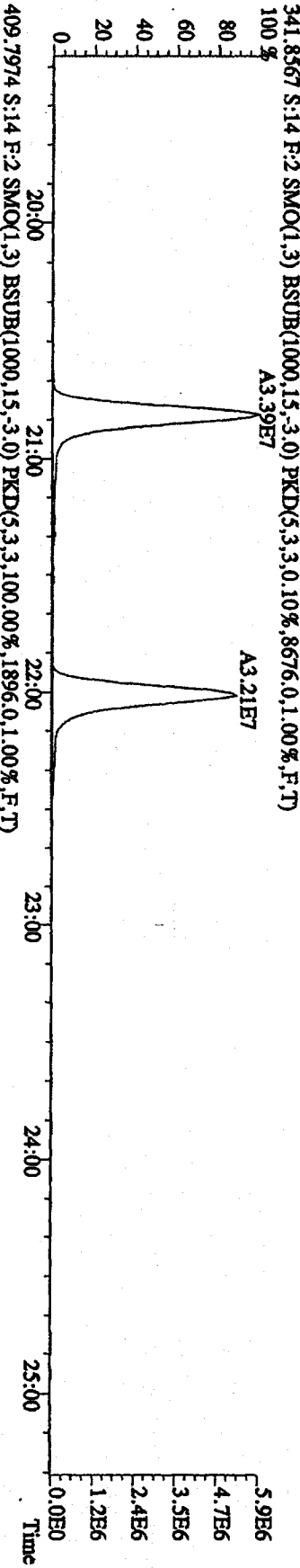
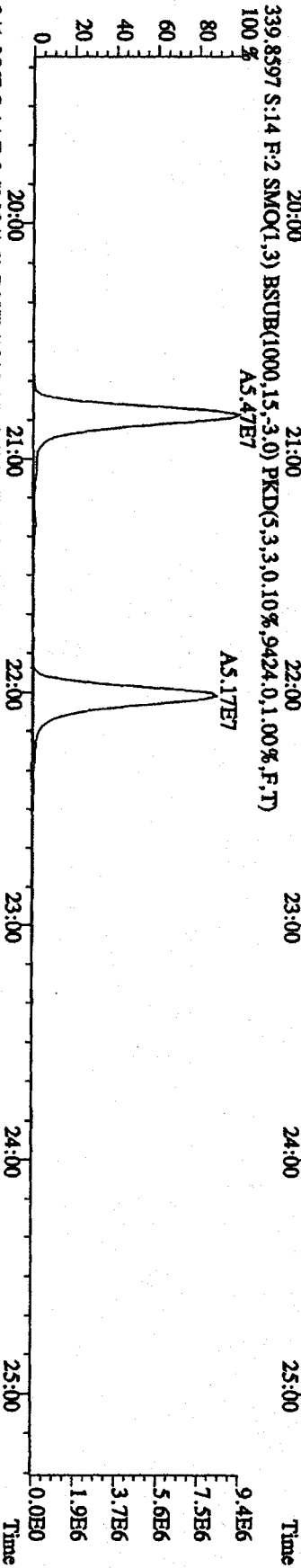
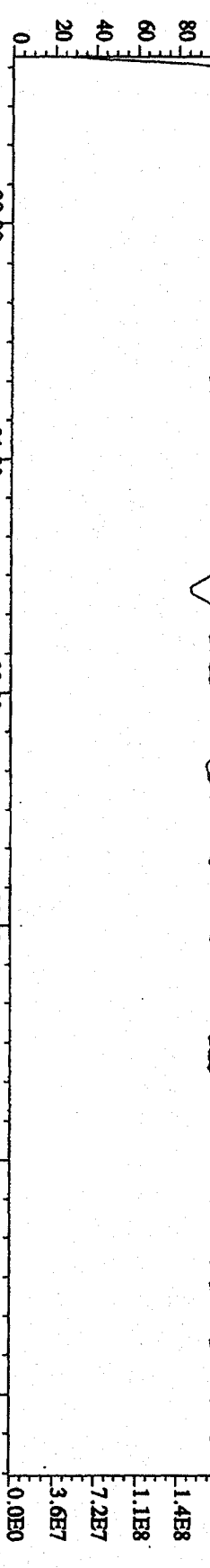
457.7377 S:14 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,7964,0.1,0.00%,F,T) 100 %



File: 15DE091D5 #1-355 Acq: 15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE
 Sample#14 Text: ST1215L 2nd Source 3249-38 Exp: DIOXIN



File:15DE091D5 #1-427 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE
 Sample#14 Text:ST1215L 2nd Source 3249-38 Exp:DIOXIN
 342.9792 S:14 F:2 SMO(1.3) PKD(5.3,3.100,0.0%,0.0,1.00%,F,T)
 100 519.26 19:45 20:05 20:30 21:05 21:41 22:02 22:34 22:53 23:25 23:47 24:20 24:45

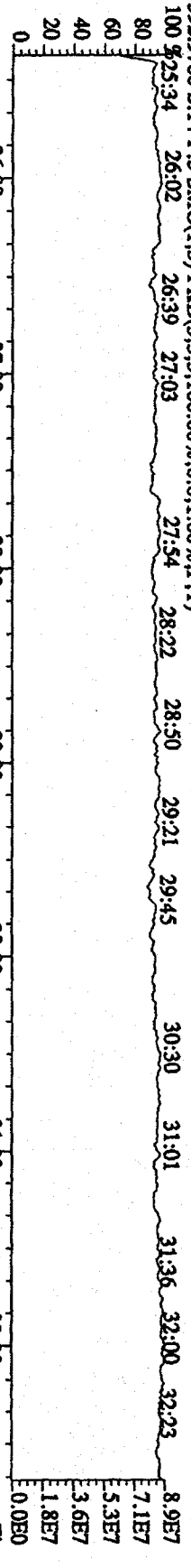


File:15DE091D5 #1-492 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE

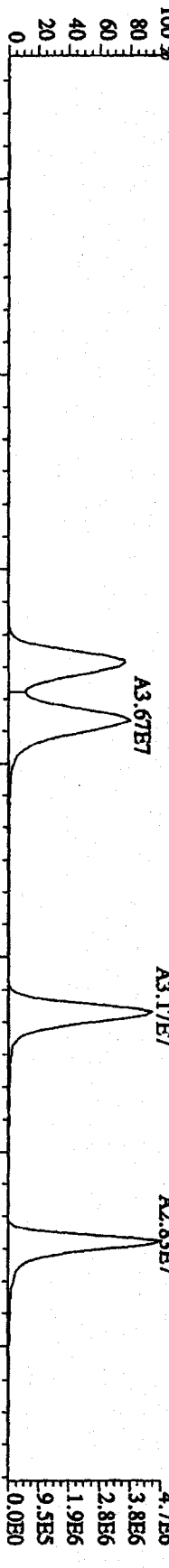
Sample#14 Text:ST1215L 2nd Source 3249-38 Exp:DIOXIN

392.9760 S:14 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

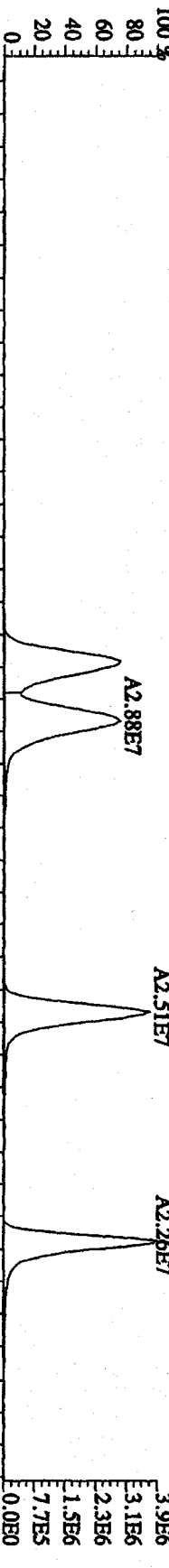
100 % 25:34 26:02 26:39 27:03 27:54 28:22 28:50 29:21 29:45 30:30 31:01 31:36 32:00 32:23



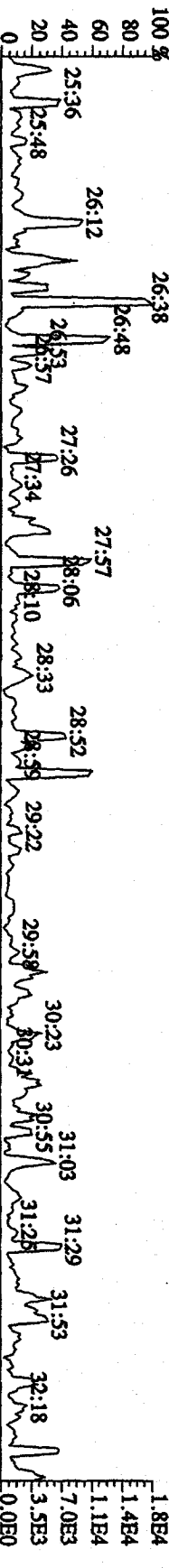
373.8208 S:14 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1.1984,0,1.00%,F,T)



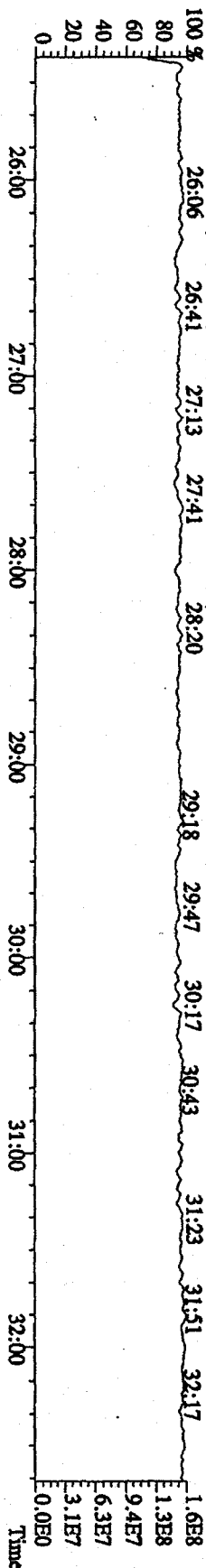
375.8178 S:14 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8888,0,1.00%,F,T)



445.7555 S:14 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,2044,0,1.00%,F,T)



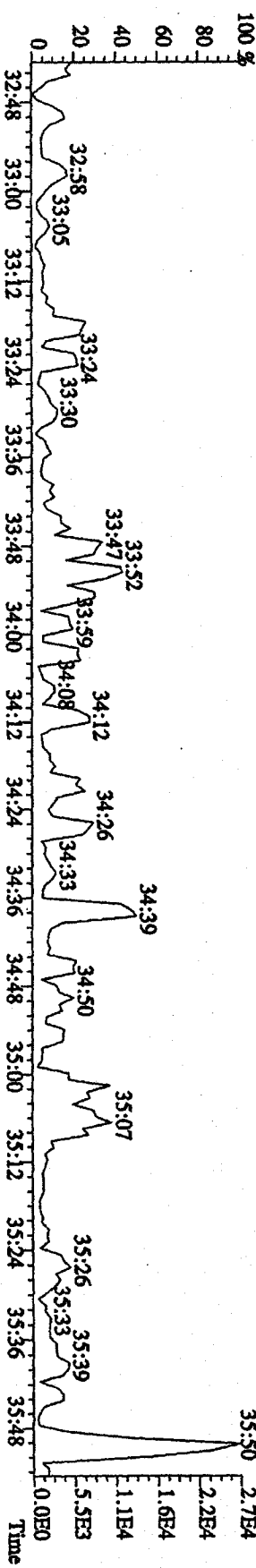
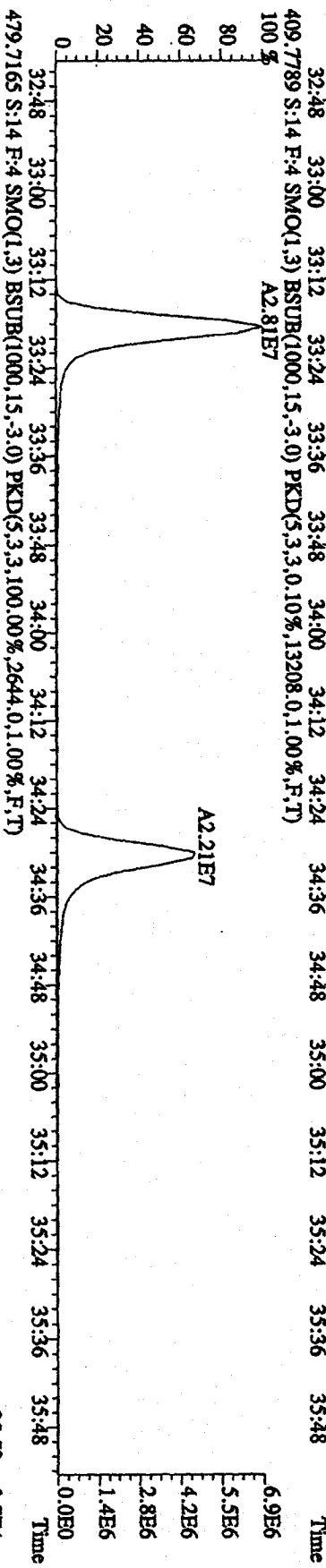
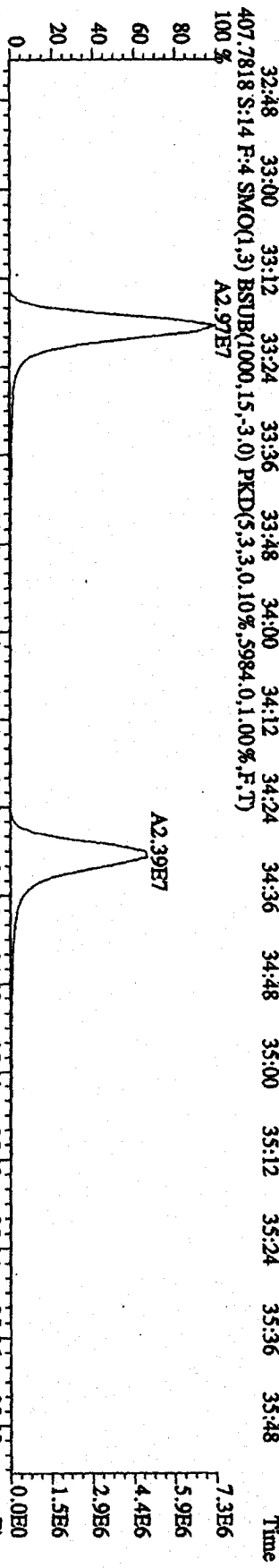
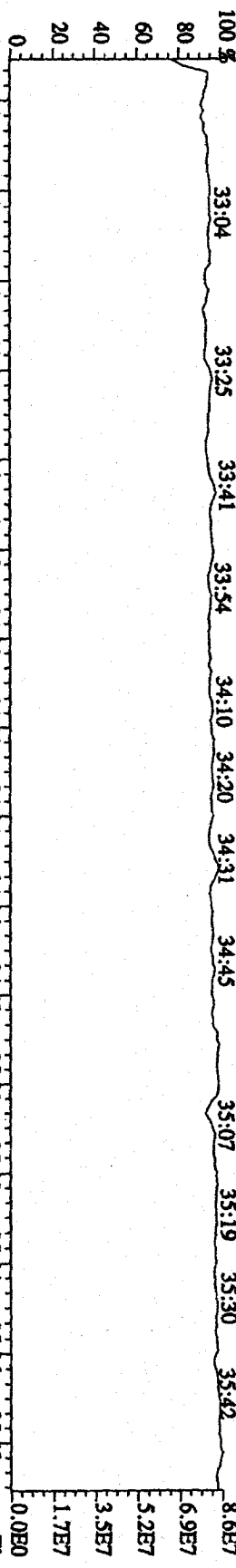
380.9760 S:14 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



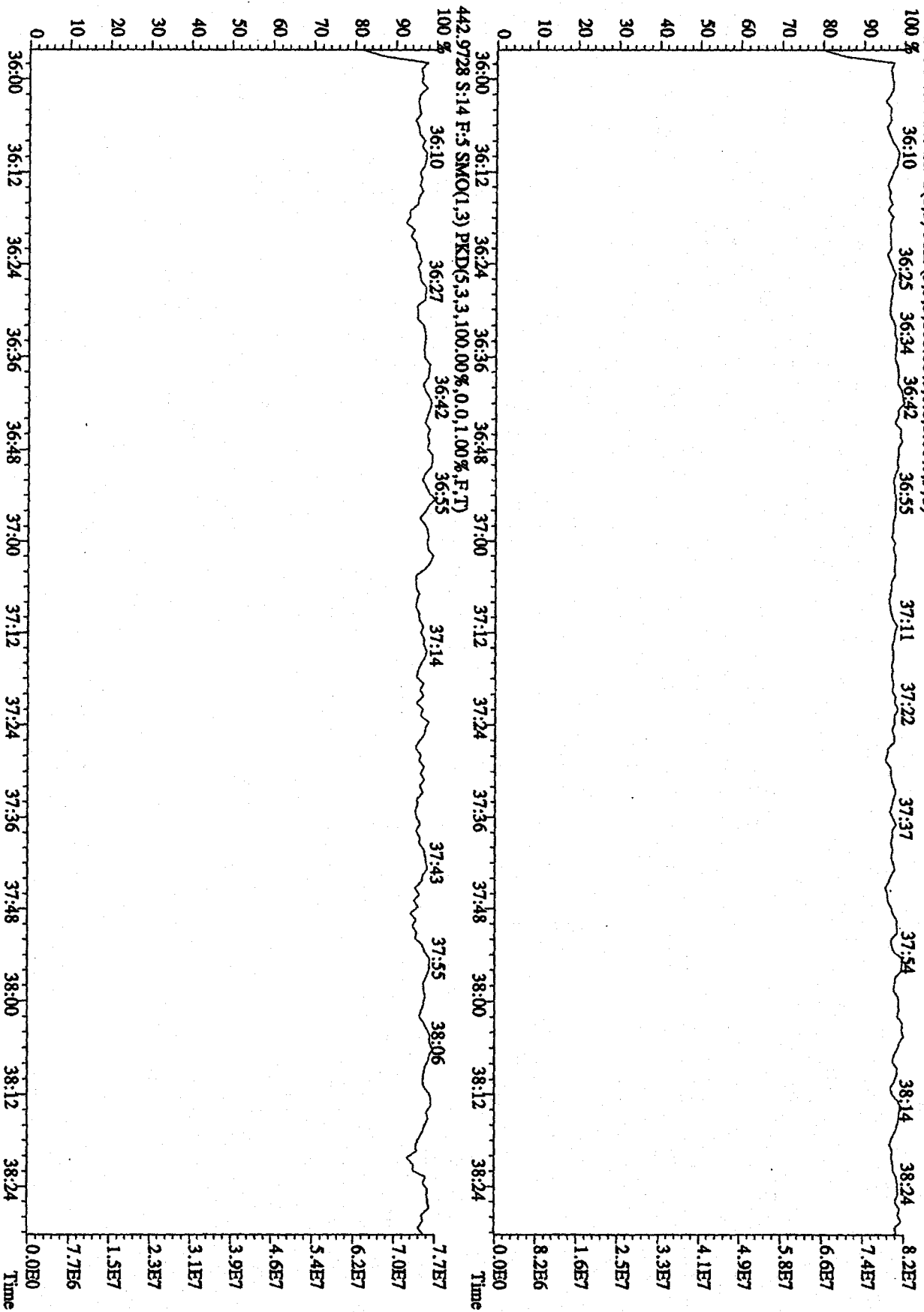
File:15DE091D5 #1-226 Acq:15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE

Sample#14 Text:ST1215L 2nd Source 3249-38 Exp:DIOXIN

430.9728 S:14 F:4 SMO(1.3) PKD(5.3,3.100.00%,0.0,1.00%,F,T)



File: 15DEB091D5 #1-186 Acq: 15-DEC-2009 19:35:13 GC EI+ Voltage SIR 70SE
 Sample#14 Text: ST1215L 2nd Source 3249-38 Exp: DIOXIN
 454.9728 S:14 F:5 SMO(1.3) PKD(5.3,3.100,00% 0.0,1.00% F,T)
 100 %



Initial Calibration Checklist Dioxin Methods

ICAL ID (DB225, DB225AIR) 1021095D2

Method ID 8290, 1613B, Tetras, 23, 0023A, TO9

Date Scanned 10/22/09 ^{11/04/09}

Column ID DB225

Instrument ID 5D2

STD ID's ST1021A, B, C, D, E

STD Solution (G9DXN) 236, 237, 123, 311, 240

GC Program DB225

Multiplier Setting 820 kV

Analyzed By KAS

Date Analyzed 10/21/09, 10/22/09

Prepared By KSS

Date Prepared 10/22/09

Reviewed By M.G.

Date Reviewed 10/22/09

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 RT 13C-1,2,3,4-TCDD = 14:32

*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: 21OC095D2 Analyte: DE225 Cal: DE2251021095D2

ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	21OC095D2													
				S3	S4	S5	S6	S7	RRF1	RRF2	RRF3	RRF4	RRF5				
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11	
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97	2,3,7,8-TCDF	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46
37Cl-2,3,7,8-TCDD	2.705	0.282	10.4 %	2.28	2.70	2.80	3.06	2.68									

Run #1 Filename 21OC095D2 S: 3 I: 1
Acquired: 21-OCT-09 22:40:02 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021A :CS1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	159777300	0.75 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	283074000	0.83 y	15:41	1.772	100.00	n
2,3,7,8-TCDF	1837089	0.82 y	15:42	1.298	0.50	n
13C-2,3,7,8-TCDD	145710700	0.76 y	14:17	0.912	100.00	n
2,3,7,8-TCDD	1060714	0.85 y	14:19	1.456	0.50	n
37Cl-2,3,7,8-TCDD	1820036	1.00 y	14:19	2.278	0.50	n

Run #2 Filename 21OC095D2 S: 4 I: 1
Acquired: 21-OCT-09 23:17:05 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021B :CS2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	146762200	0.80 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	295537000	0.84 y	15:40	2.014	100.00	n
2,3,7,8-TCDF	7158100	0.67 y	15:42	1.211	2.00	n
13C-2,3,7,8-TCDD	139584500	0.75 y	14:17	0.951	100.00	n
2,3,7,8-TCDD	4525160	0.83 y	14:19	1.621	2.00	n
37Cl-2,3,7,8-TCDD	7927020	1.00 y	14:18	2.701	2.00	n

Run #3 Filename 21OC095D2 S: 5 I: 1
Acquired: 21-OCT-09 23:54:06 Processed: 22-OCT-09 10:13:19
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021C :CS3 09DXN123

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	158503900	0.74 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	315863000	0.85 y	15:40	1.993	100.00	n
2,3,7,8-TCDF	37100400	0.73 y	15:41	1.175	10.00	n
13C-2,3,7,8-TCDD	156056100	0.74 y	14:17	0.985	100.00	n
2,3,7,8-TCDD	23336700	0.86 y	14:18	1.495	10.00	n
37Cl-2,3,7,8-TCDD	44361400	1.00 y	14:18	2.799	10.00	n

Run #4 Filename 21OC095D2 S: 6 I: 1
Acquired: 22-OCT-09 00:31:07 Processed: 22-OCT-09 10:13:20
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2
Comments:

Sample text: ST1021D :CS4 09DXN311

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	134818500	0.80 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	282970000	0.86 y	15:40	2.099	100.00	n
2,3,7,8-TCDF	125144200	0.67 y	15:41	1.106	40.00	n
13C-2,3,7,8-TCDD	140240600	0.79 y	14:17	1.040	100.00	n
2,3,7,8-TCDD	84166000	0.88 y	14:18	1.500	40.00	n
37Cl-2,3,7,8-TCDD	165061800	1.00 y	14:17	3.061	40.00	n

Run #5 Filename 21OC095D2 S: 7 I: 1
Acquired: 22-OCT-09 01:08:10 Processed: 22-OCT-09 10:13:20
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2

Comments:

Sample text: ST1021E :CS5 09DXN240

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	160493400	0.77 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	321050000	0.84 y	15:39	2.000	100.00	n
2,3,7,8-TCDF	712667000	0.71 y	15:40	1.110	200.00	n
13C-2,3,7,8-TCDD	155146500	0.74 y	14:17	0.967	100.00	n
2,3,7,8-TCDD	452444000	0.87 y	14:18	1.458	200.00	n
37C1-2,3,7,8-TCDD	861636000	1.00 y	14:18	2.684	200.00	n

Run: 210C095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

ST1021A : CS1 09DXN236 ST1021B : CS2 09DXN237 ST1021C : CS3 09DXN123
 ST1021D : CS4 09DXN311 ST1021E : CS5 09DXN240

Name	Mean	S. D.	%RSD	210C095D2										
				S3	S4	S5	S6	S7	RRF1	RRF2	RRF3	RRF4	RRF5	
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.975	0.122	6.16 %	1.77	2.01	1.99	2.10	2.00	1.30	1.21	1.17	1.11	1.11	1.11
2,3,7,8-TCDF	1.180	0.080	6.75 %	1.30	1.21	1.17	1.11	1.11	1.30	1.21	1.17	1.11	1.11	1.11
13C-2,3,7,8-TCDD	0.971	0.047	4.85 %	0.91	0.95	0.98	1.04	0.97	1.46	1.62	1.50	1.50	1.46	1.46
2,3,7,8-TCDD	1.506	0.067	4.47 %	1.46	1.62	1.50	1.50	1.46	1.46	1.62	1.50	1.50	1.46	1.46
37Cl-2,3,7,8-TCDD	2.780	0.168	6.05 %	2.50	2.84	2.84	2.94	2.78	2.50	2.84	2.84	2.94	2.78	2.78

Run #1 Filename 21OC095D2 S: 3 I: 1
Acquired: 21-OCT-09 22:40:02 Processed: 22-OCT-09 11:29:34
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

Comments:

Sample text: ST1021A :CS1 09DXN236

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	159777300	0.75 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	283074000	0.83 y	15:41	1.772	100.00	n
2,3,7,8-TCDF	1837089	0.82 y	15:42	1.298	0.50	n
13C-2,3,7,8-TCDD	145710700	0.76 y	14:17	0.912	100.00	n
2,3,7,8-TCDD	1060714	0.85 y	14:19	1.456	0.50	n
37Cl-2,3,7,8-TCDD	1820036	1.00 y	14:19	2.498	0.50	n

Run #2 Filename 21OC095D2 S: 4 I: 1
Acquired: 21-OCT-09 23:17:05 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:
Sample text: ST1021B :CS2 09DXN237

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	146762200	0.80 y	14:33	-	100.00	n
13C-2,3,7,8-TCDF	295537000	0.84 y	15:40	2.014	100.00	n
2,3,7,8-TCDF	7158100	0.67 y	15:42	1.211	2.00	n
13C-2,3,7,8-TCDD	139584500	0.75 y	14:17	0.951	100.00	n
2,3,7,8-TCDD	4525160	0.83 y	14:19	1.621	2.00	n
37Cl-2,3,7,8-TCDD	7927020	1.00 y	14:18	2.840	2.00	n

Run #3 Filename 21OC095D2 S: 5 I: 1
Acquired: 21-OCT-09 23:54:06 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

Comments:

Sample text: ST1021C :CS3 09DXN123

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	158503900	0.74 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	315863000	0.85 y	15:40	1.993	100.00	n
2,3,7,8-TCDF	37100400	0.73 y	15:41	1.175	10.00	n
13C-2,3,7,8-TCDD	156056100	0.74 y	14:17	0.985	100.00	n
2,3,7,8-TCDD	23336700	0.86 y	14:18	1.495	10.00	n
37C1-2,3,7,8-TCDD	44361400	1.00 y	14:18	2.843	10.00	n

Run #4 Filename 21OC095D2 S: 6 I: 1
Acquired: 22-OCT-09 00:31:07 Processed: 22-OCT-09 11:29:35
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2
Comments:

Sample text: ST1021D :CS4 09DXN311

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	134818500	0.80 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	282970000	0.86 y	15:40	2.099	100.00	n
2,3,7,8-TCDF	125144200	0.67 y	15:41	1.106	40.00	n
13C-2,3,7,8-TCDD	140240600	0.79 y	14:17	1.040	100.00	n
2,3,7,8-TCDD	84166000	0.88 y	14:18	1.500	40.00	n
37C1-2,3,7,8-TCDD	165061800	1.00 y	14:17	2.942	40.00	n

Run #5 Filename 21OC095D2 S: 7 I: 1
Acquired: 22-OCT-09 01:08:10 Processed: 22-OCT-09 11:29:36
Run: 21OC095D2 Analyte: DB225AIR Cal: DB225AIR1021095D2

Comments:

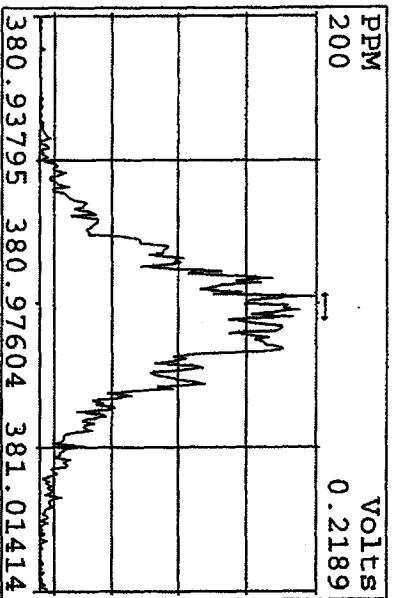
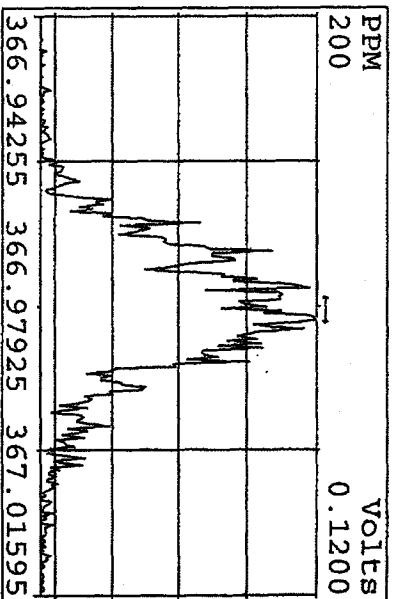
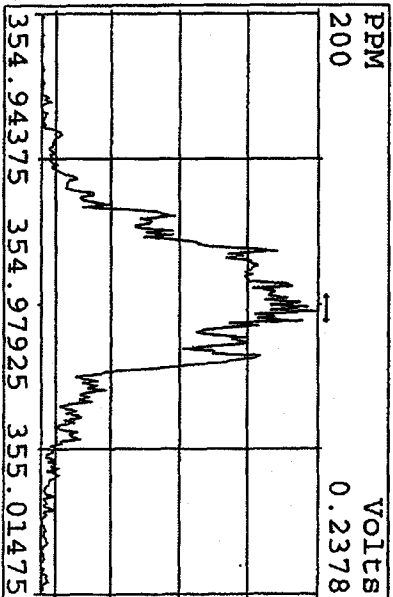
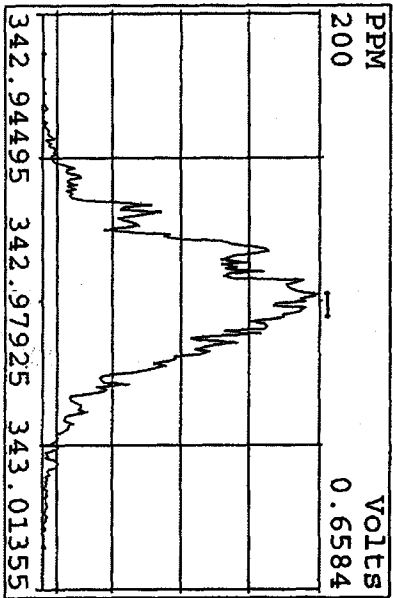
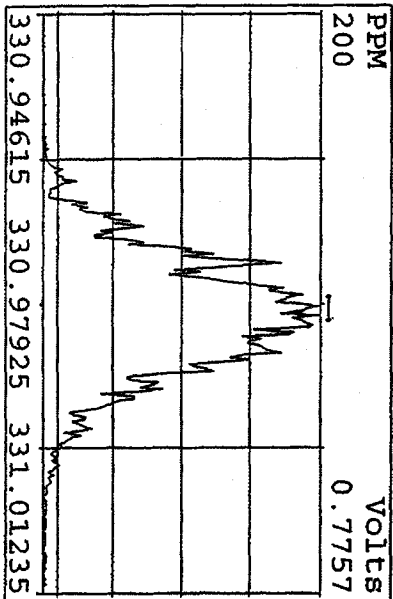
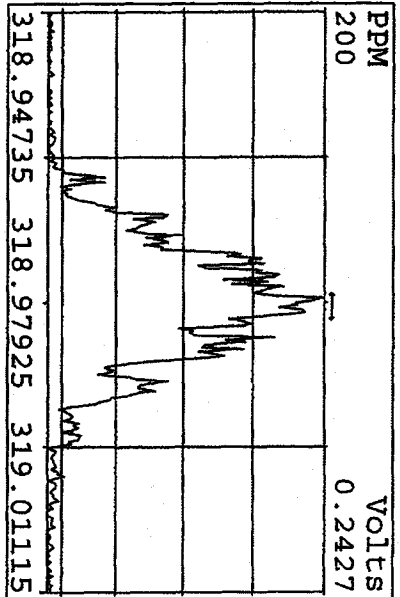
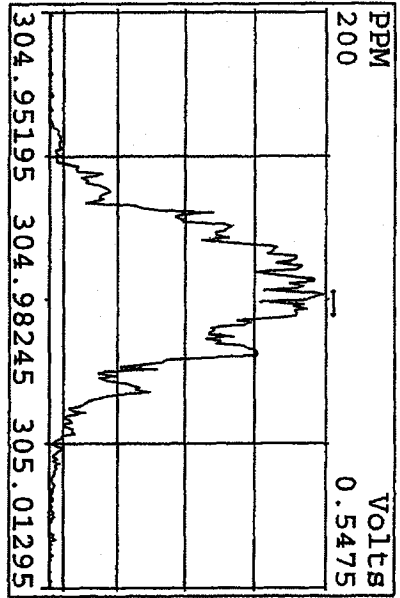
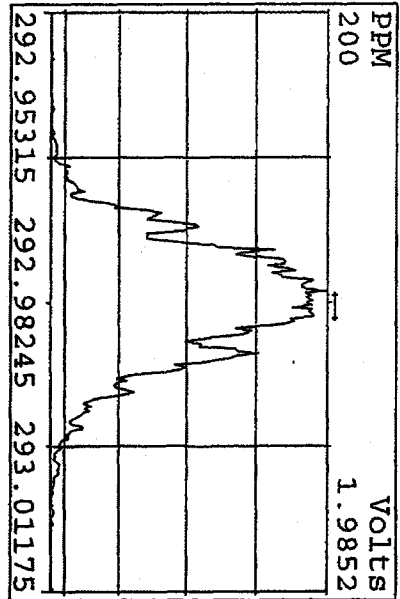
Sample text: ST1021E :CS5 09DXN240

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	160493400	0.77 y	14:32	-	100.00	n
13C-2,3,7,8-TCDF	321050000	0.84 y	15:39	2.000	100.00	n
2,3,7,8-TCDF	712667000	0.71 y	15:40	1.110	200.00	n
13C-2,3,7,8-TCDD	155146500	0.74 y	14:17	0.967	100.00	n
2,3,7,8-TCDD	452444000	0.87 y	14:18	1.458	200.00	n
37Cl-2,3,7,8-TCDD	861636000	1.00 y	14:18	2.777	200.00	n

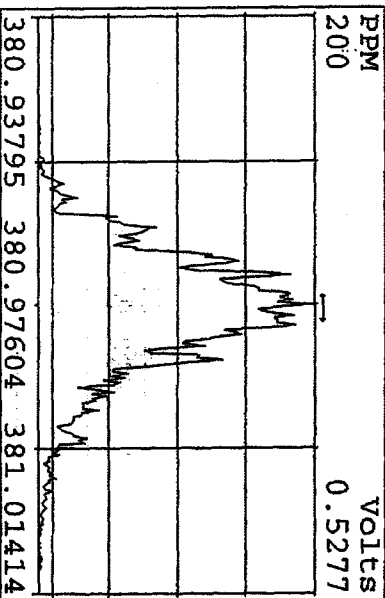
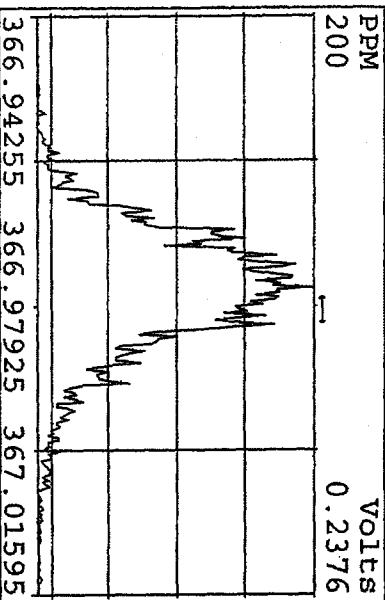
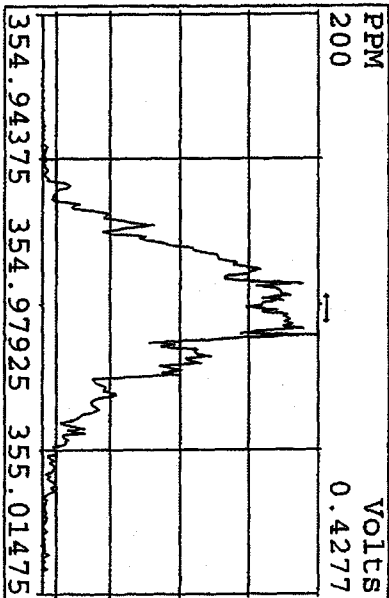
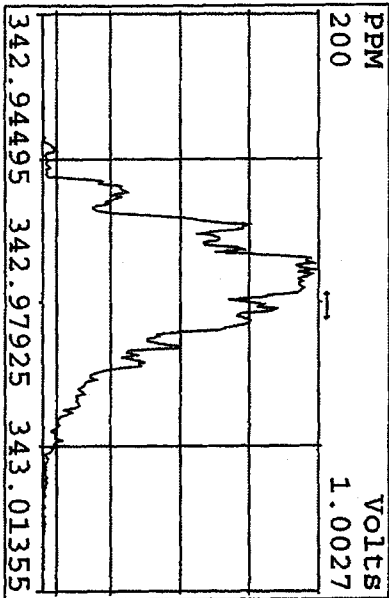
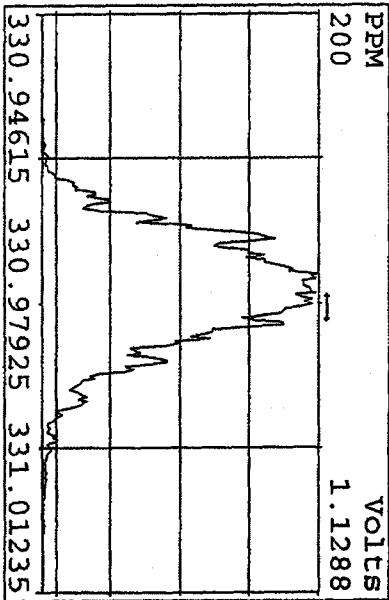
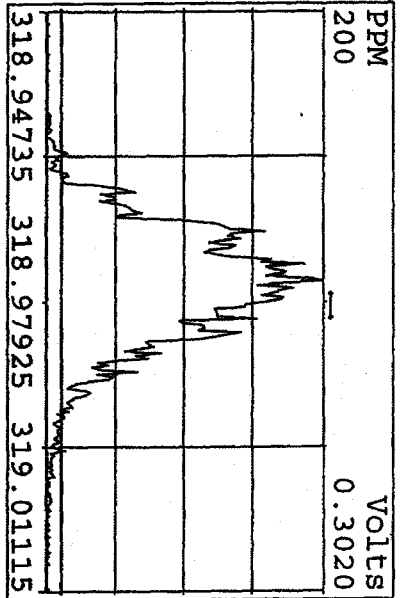
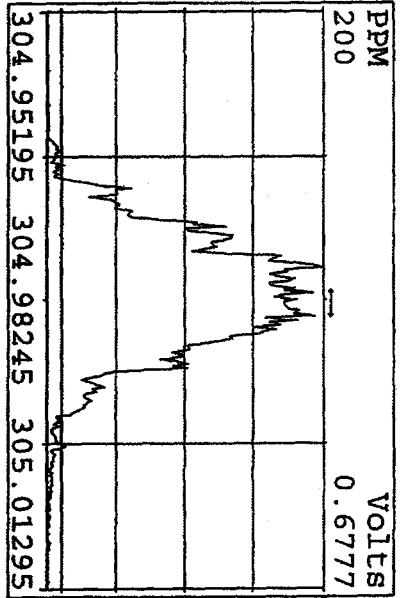
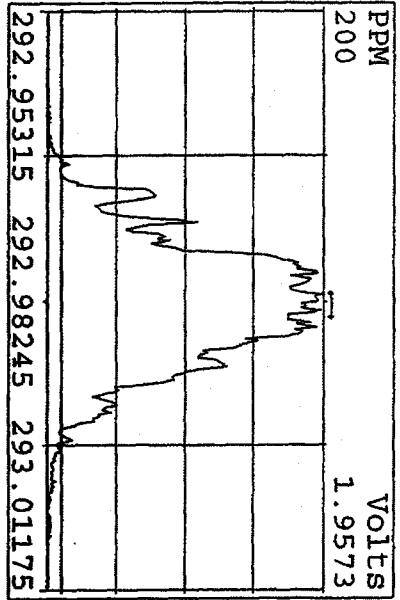
Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
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21OC095D2	2	CP1021	DB-225 CPSM 3732-01				1.000	
21OC095D2	3	ST1021A	CS1 09DXN236				1.000	
21OC095D2	4	ST1021B	CS2 09DXN237				1.000	
21OC095D2	5	ST1021C	CS3 09DXN123				1.000	
21OC095D2	6	ST1021D	CS4 09DXN311				1.000	
21OC095D2	7	ST1021E	CS5 09DXN240				1.000	
21OC095D2	8	ST1021F	2nd Source 09DXN300				1.000	
21OC095D2	9	SB1021	C-14 SOLVENT BLANK				1.000	
21OC095D2	10	CP1021A	DB-225 CPSM 3732-01				1.000	
21OC095D2	11	ST1021G	CS3 09DXN123				1.000	
21OC095D2	12	SB1021A	C-14 SOLVENT BLANK				1.000	
21OC095D2	13	LL3C6-1-AC	G9J060234-1	20	8290/WATER	79	0.576	L
21OC095D2	14	LL3DH-1-AC	G9J060234-2	20	8290/WATER		0.564	L
21OC095D2	15	LLC4P-1-AC	G9I230350-1	20	8290/SOLID	84	10.170	g
21OC095D2	16	LLC4R-1-AC	G9I230350-3	20	8290/SOLID		10.010	g
21OC095D2	17	LLC4T-1-AC	G9I230350-4	20	8290/SOLID		10.020	g
21OC095D2	18	SB1021A	C-14 SOLVENT BLANK				1.000	
21OC095D2	19	ST1021H	CS3 09DXN123				1.000	
21OC095D2	20						1.000	
21OC095D2	21						1.000	
21OC095D2	22						1.000	
21OC095D2	23		KAS/KSS 9-21-09				1.000	
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logfile vid
10/22/09
KSS

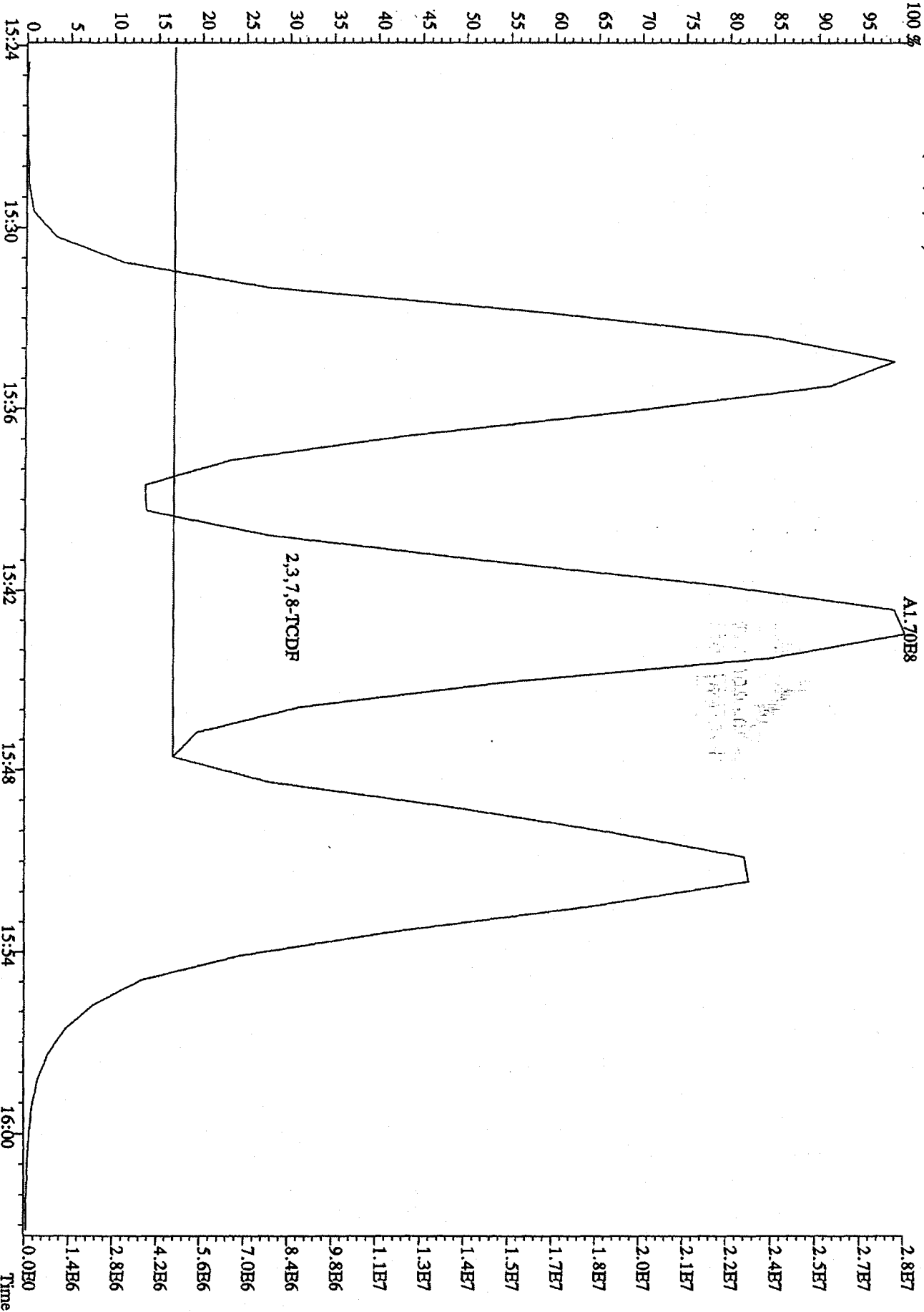
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 Experiment: DB225 Function: 1 Reference: PFK



Peak Locate Examination: 22-OCT-2009: 09:19 File: 21OC095D2ENDRES
 Experiment: DB225 Function: 1 Reference: PK



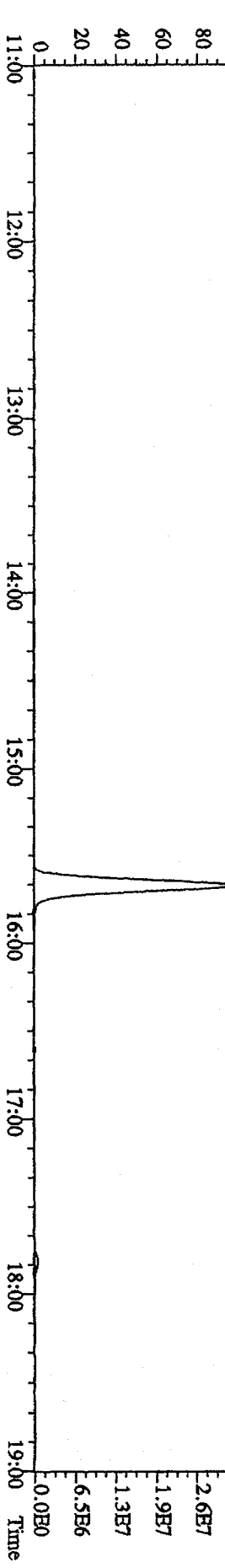
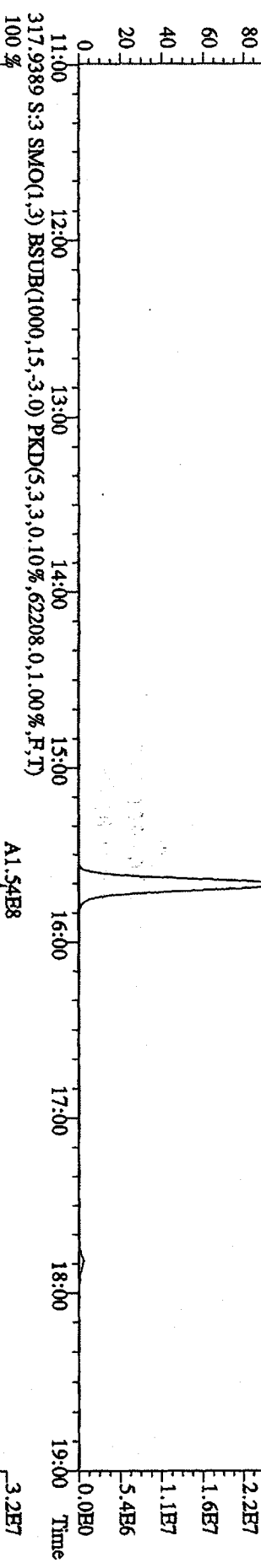
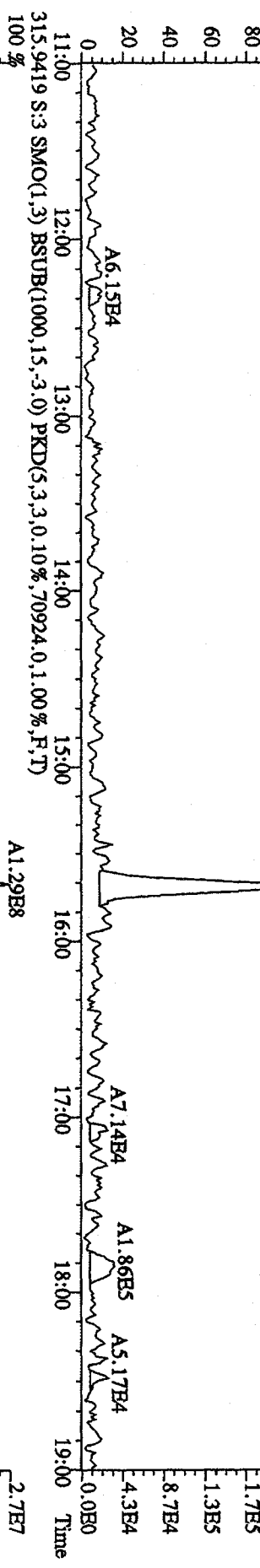
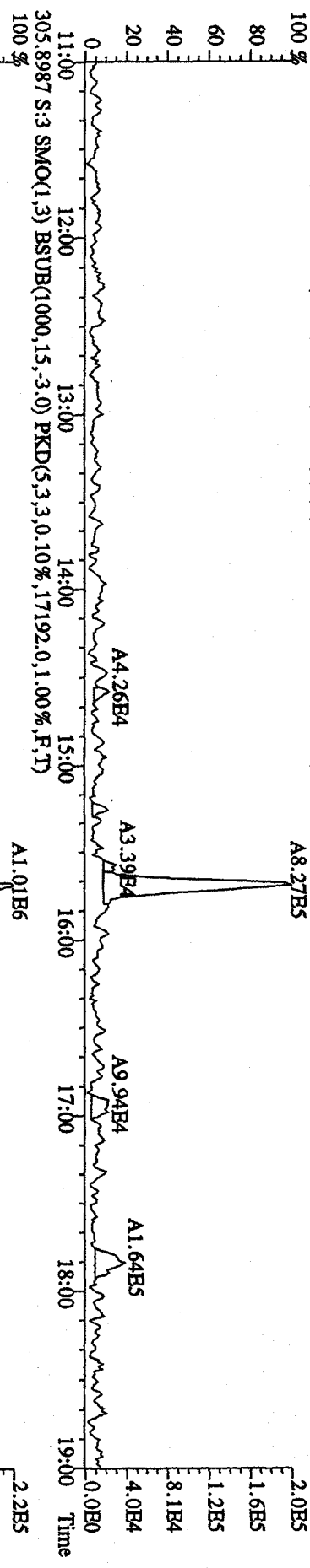
File:21OC09SD2 #-1-1242 Acq:21-OCT-2009 22:03:00 GC EI+ Voltage SIR 70SE
Sample#2 Text:CP1021 :DB-225 CP5M 3732-01 Exp:DB225
303.9016 S:2 BSUB(128,15,-3.0)



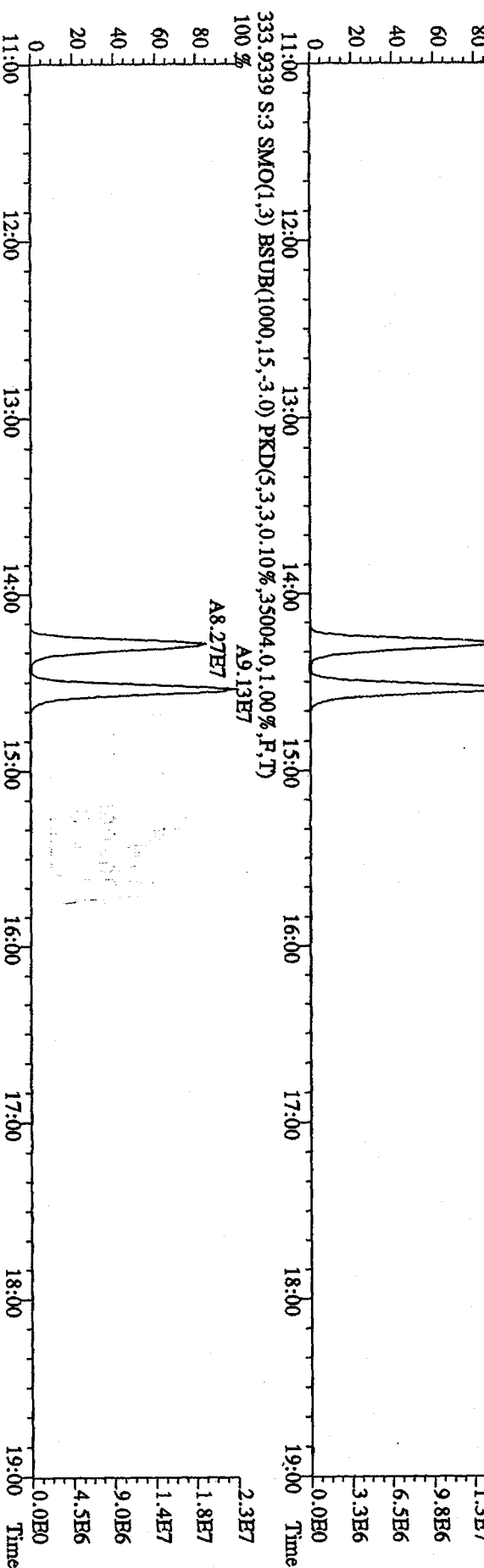
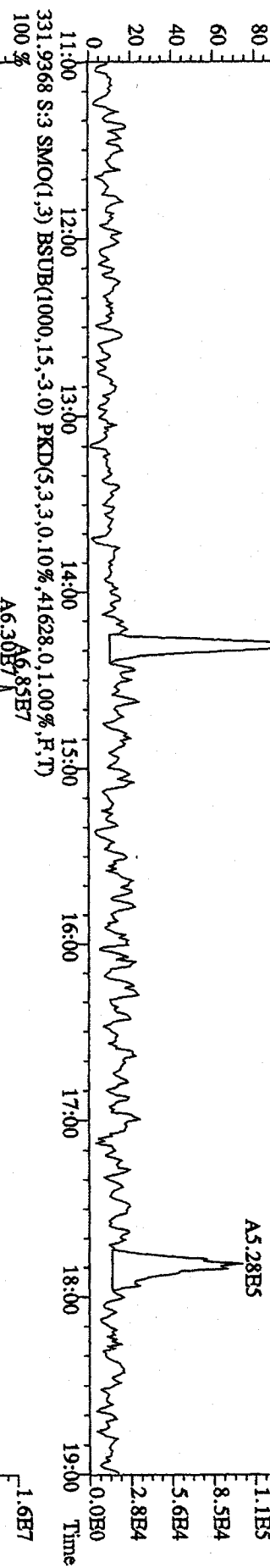
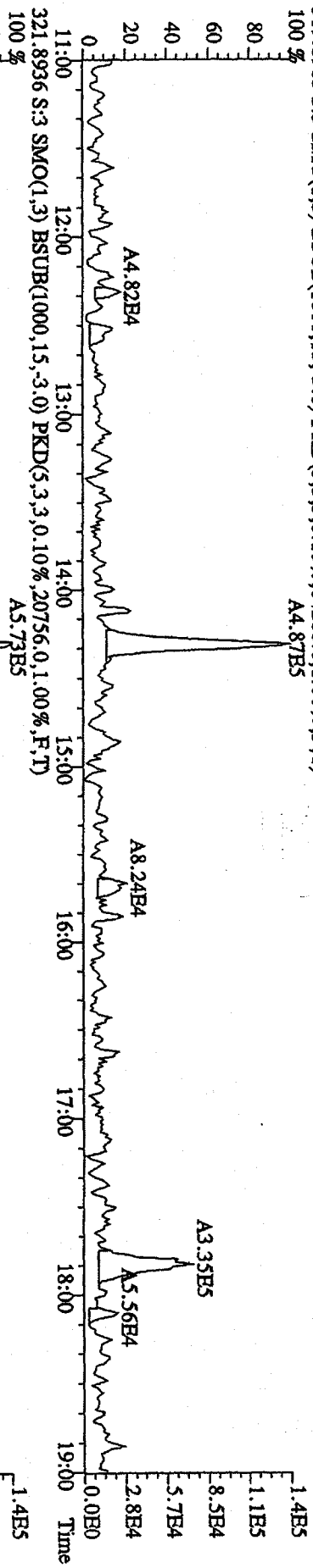
Run text: ST1021F Sample text: ST1021F :2nd Source 09DXN300
Run #15 Filename: 21OC095D2 S: 8 I: 1 Results: 21OC095D2DB225
Acquired: 22-OCT-09 01:45:11 Processed: 22-OCT-09 12:39:59
Run: 21OC095D2 Analyte: DB225 Cal: DB2251021095D2
Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	136613028	0.82 y	14:31	-	89.83	-	-	n
13C-2,3,7,8-TCDF	277440664	0.86 y	15:39	1.98	2056.05	12.22	102.8	n
2,3,7,8-TCDF	30151783	0.72 y	15:40	1.18	184.23	3.03	-	n
13C-2,3,7,8-TCDD	128036352	0.75 y	14:16	0.97	1930.61	14.32	96.5	n
2,3,7,8-TCDD	18883674	0.87 y	14:17	1.51	195.85	5.01	-	n
37Cl-2,3,7,8-TCDD	35891704	1.00 y	14:17	2.70	194.28	4.88	97.1	n

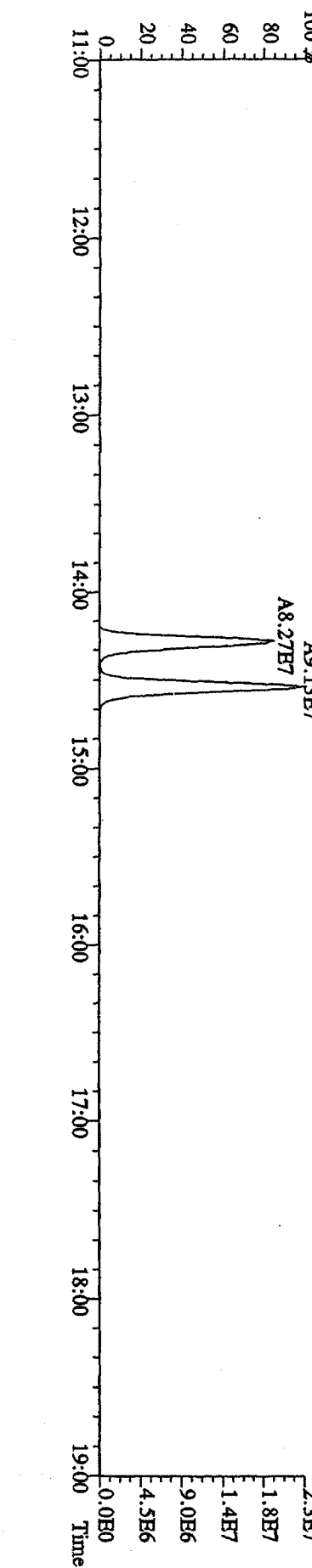
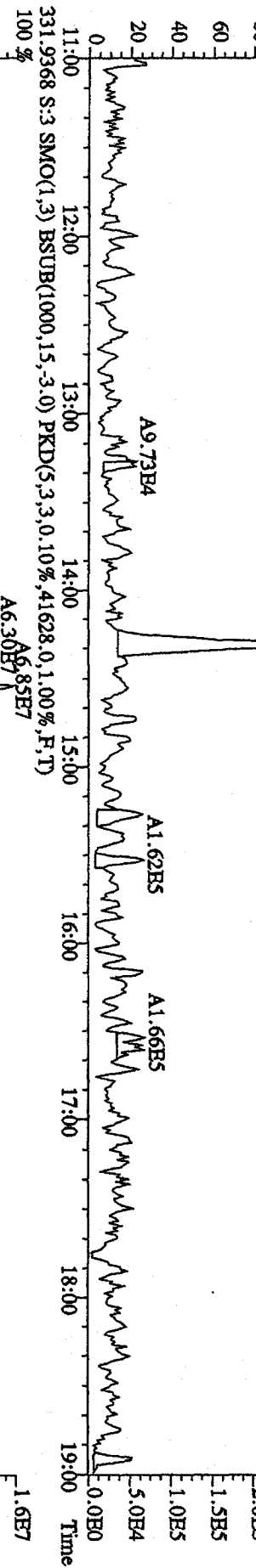
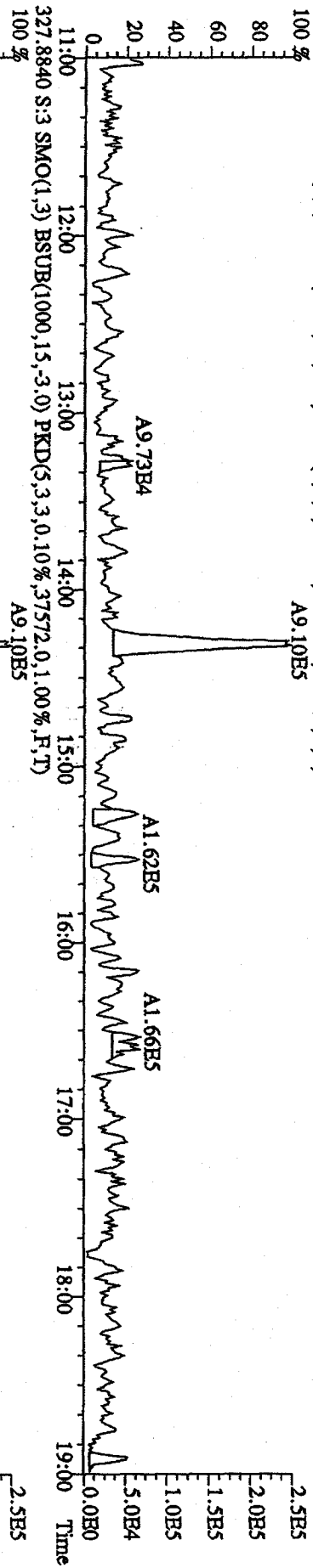
File:21OC095D2 #1-1242 Acq:21-OCT-2009 22:40:02 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1021A :CSI 09DXN236 Exp:DB225
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,13496,0,1,00%,F,T)
 100 %



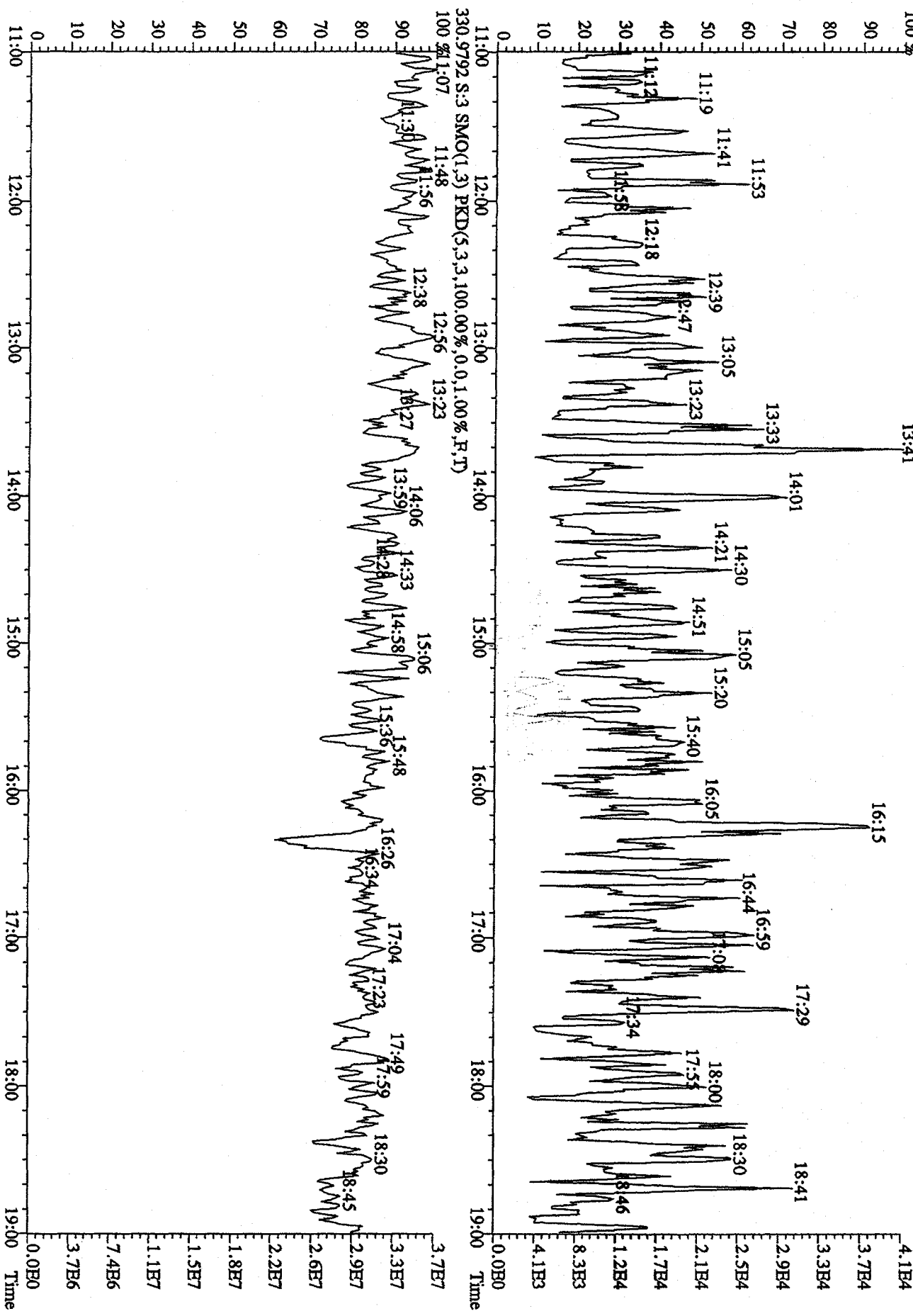
File:21OC095D2 #1-1242 Acq:21-OCT-2009 22:40:02 GC EI + Voltage SIR 70SE
 Sample#3 Text:ST1021A :CSI 09DXN236 Exp:DB225
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,14280,0,1.00%,F,T)
 100% A4.87E5



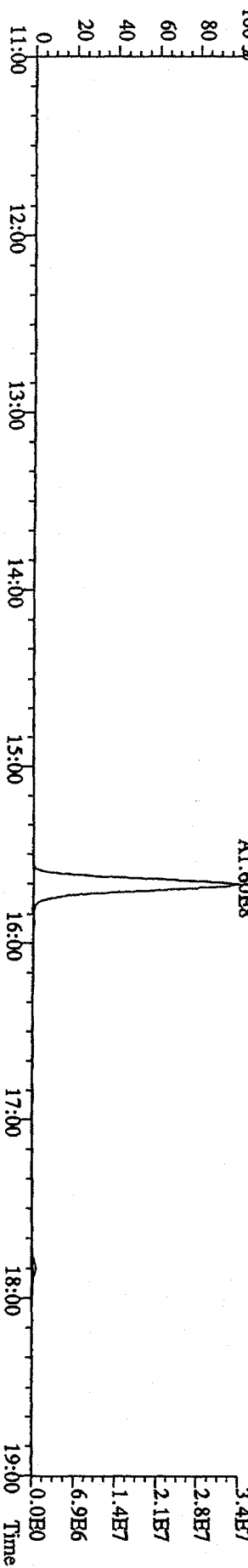
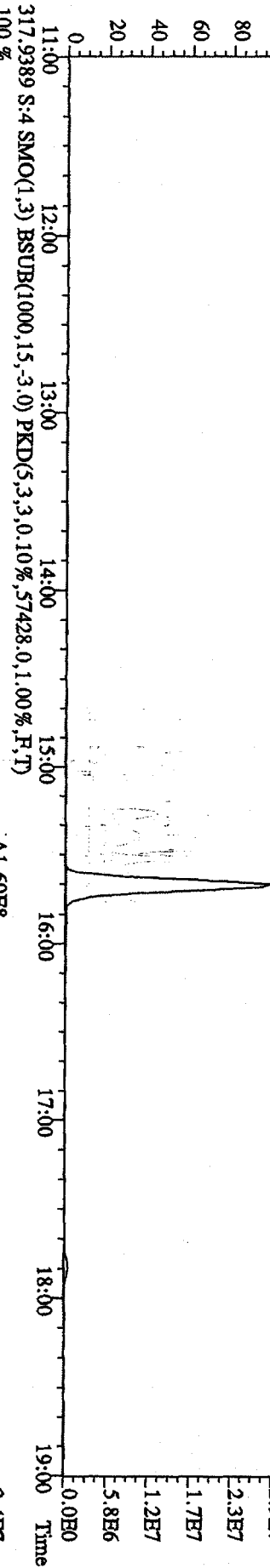
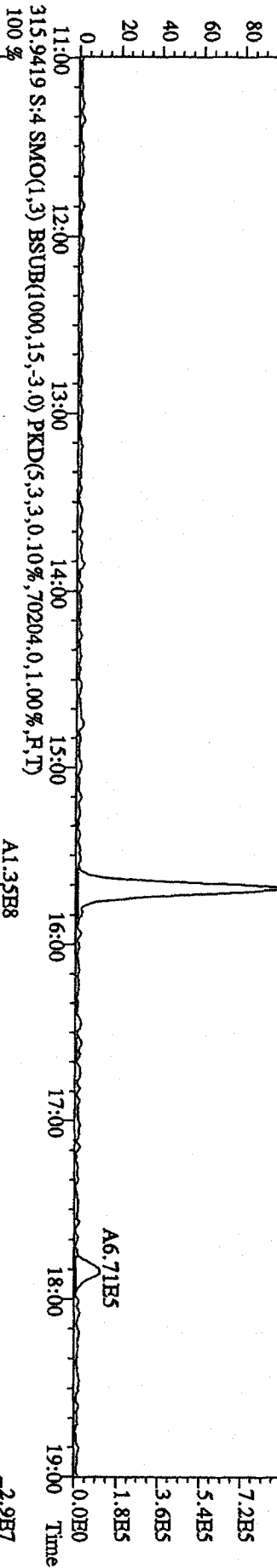
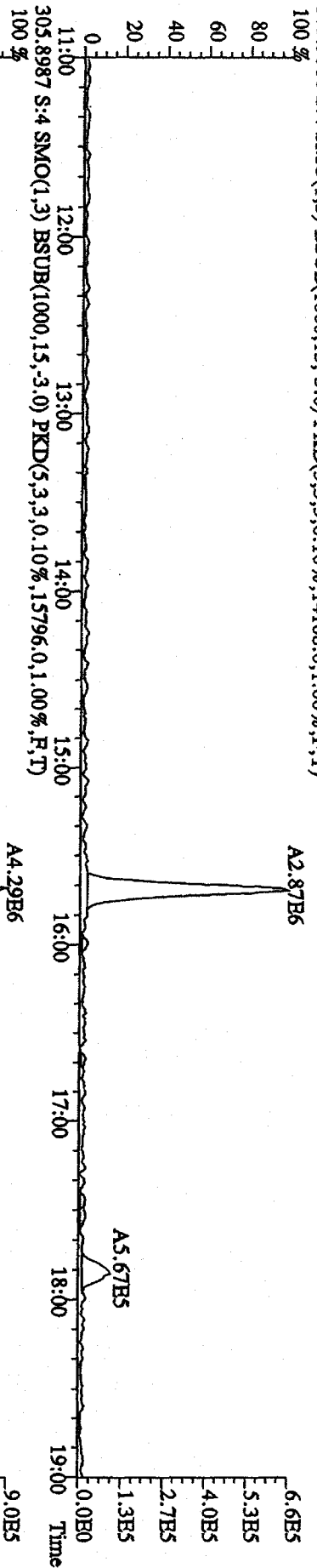
File:21OC095D2 #1-1242 Acq:21-OCT-2009 22:40:02 GC EI+ Voltage SIR 70SE
 Sample#3 Text:ST1021A :CSI 09DXN236 Exp:DB225
 327.8840 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,37572.0,1.00%,F,T) A9.10E5
 100 %



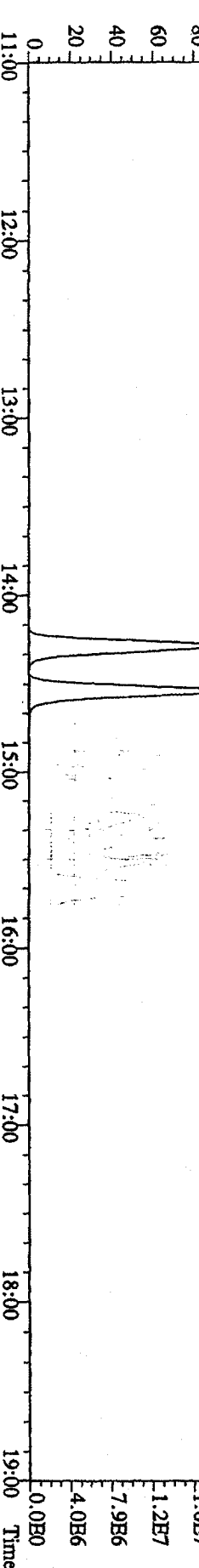
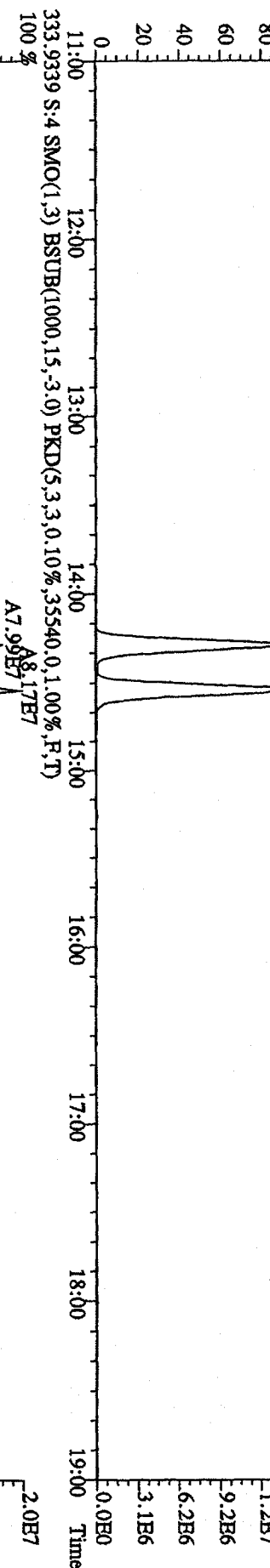
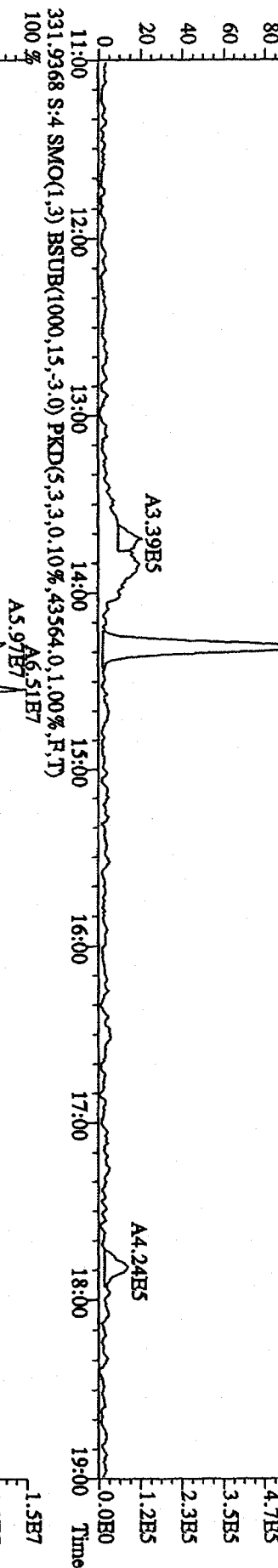
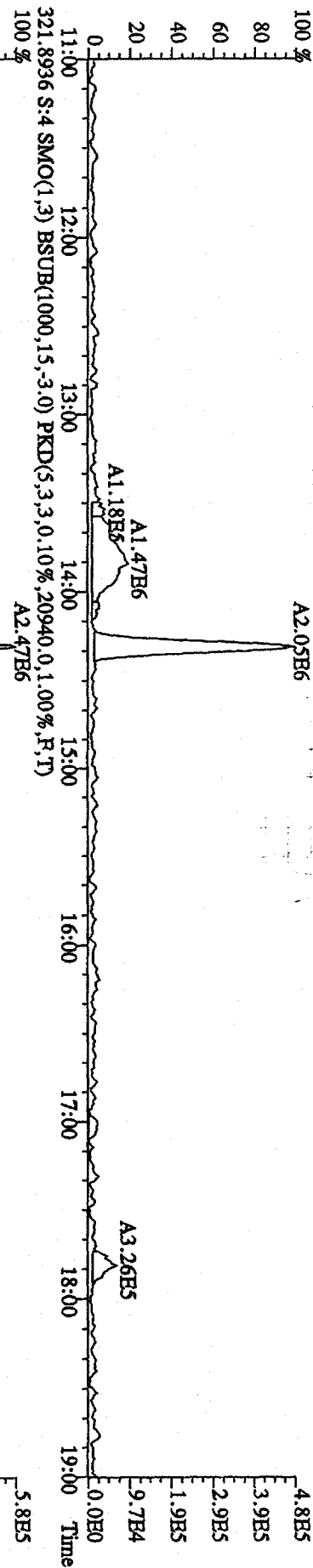
File: 21OC095D2 #1-1242 Acq: 21-OCT-2009 22:40:02 GC HI + Voltage SIR 70SE
 Sample#3 Text: ST1021A :CSI 09DXN236 Exp: DB225
 375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,16032.0,1.00%,F,T)
 13:41



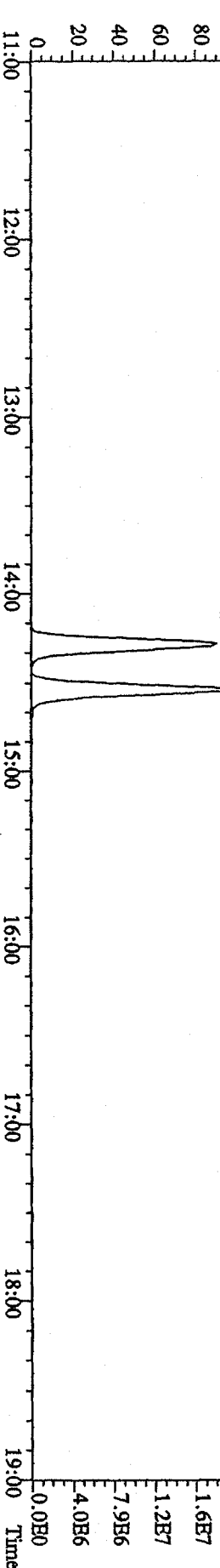
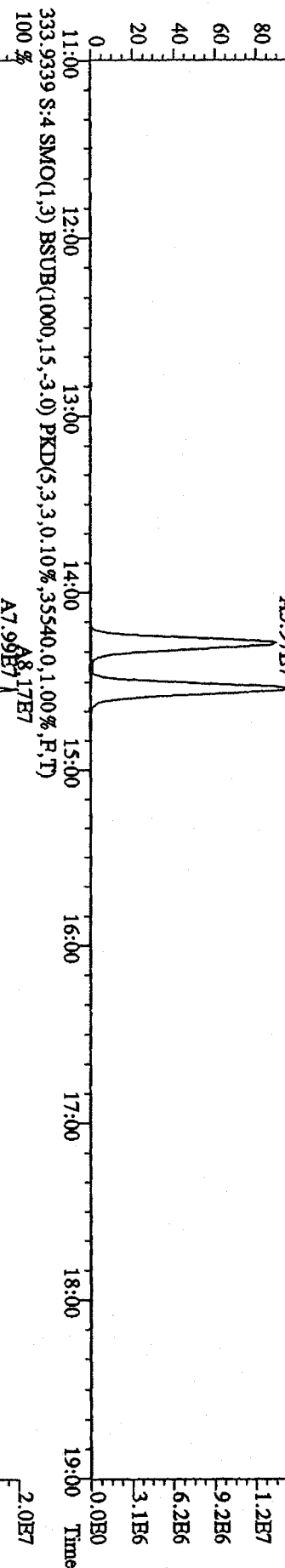
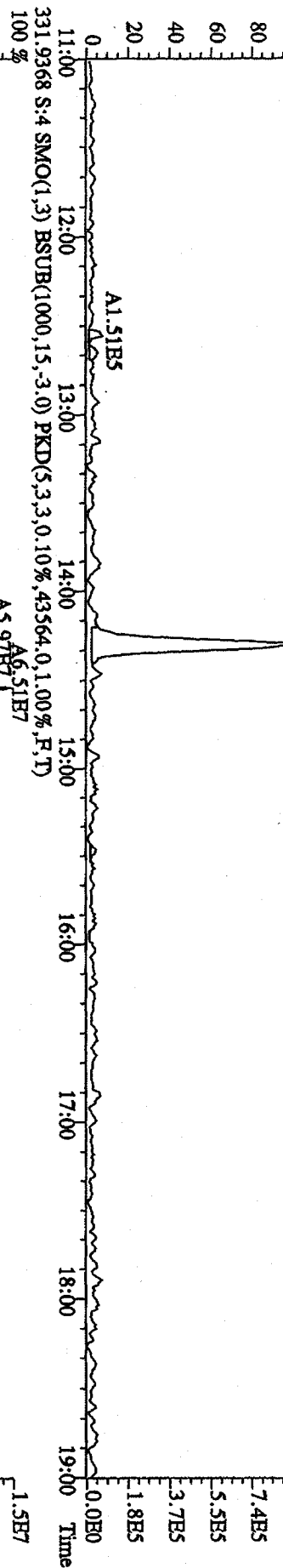
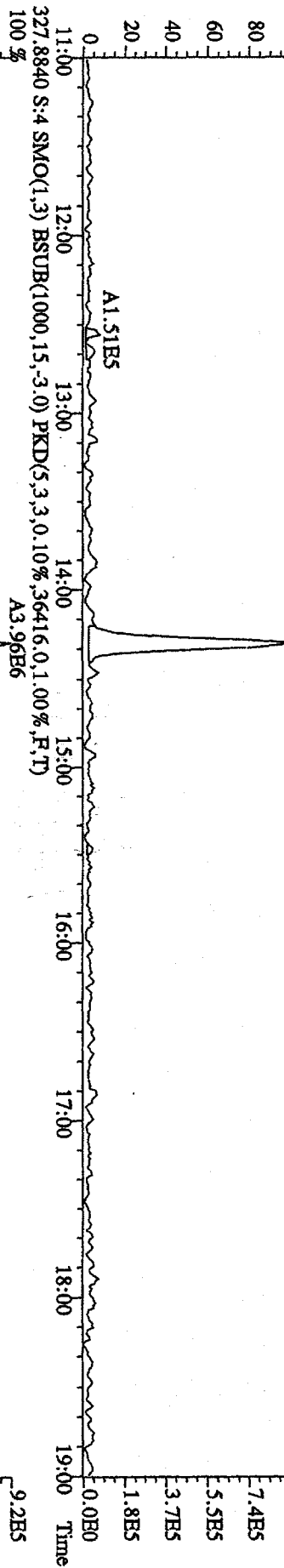
File:21OC095D2 #1-1242 Acq:21-OCT-2009 23:17:05 GC HI+ Voltage SIR 70SB
 Sample#4 Text:ST1021B :CS2 09DXN237 Exp:DB225
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,14108.0,1.00%,F,T)



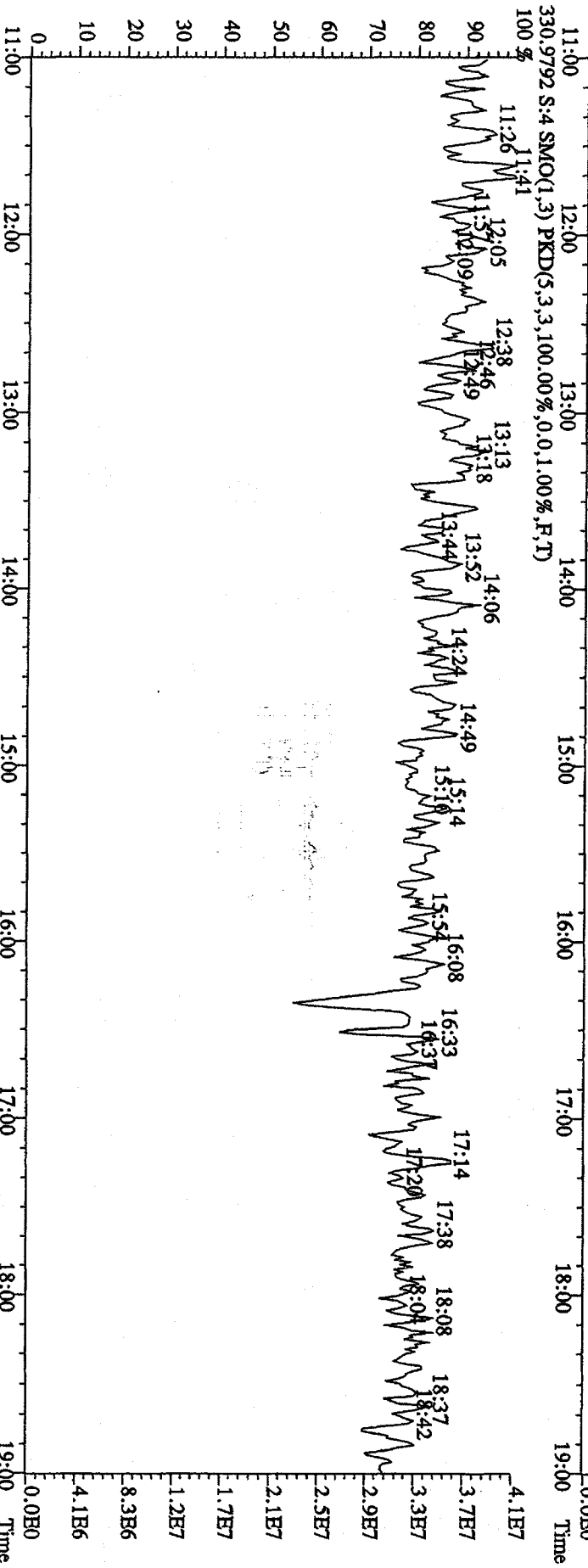
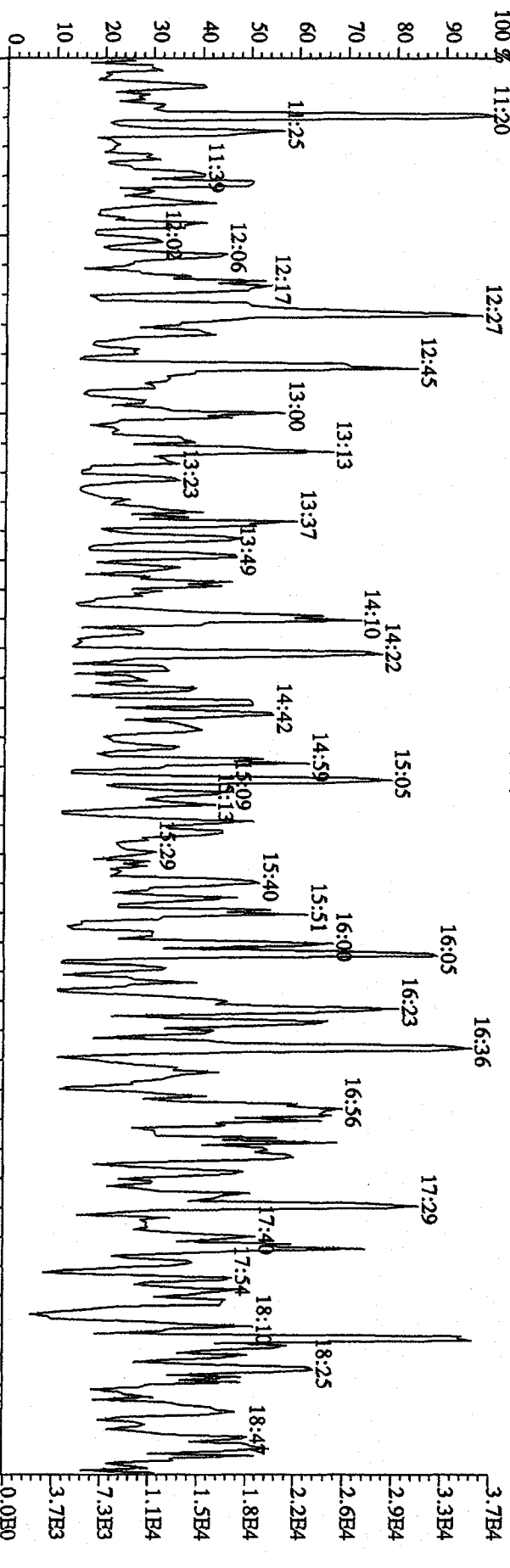
File:21OC095D2 #1-1242 Acq:21-OCT-2009 23:17:05 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1021B :CS2 09DXN237 Exp:DB225
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15548.0,1.00%,F,T) 100% A2.05E6



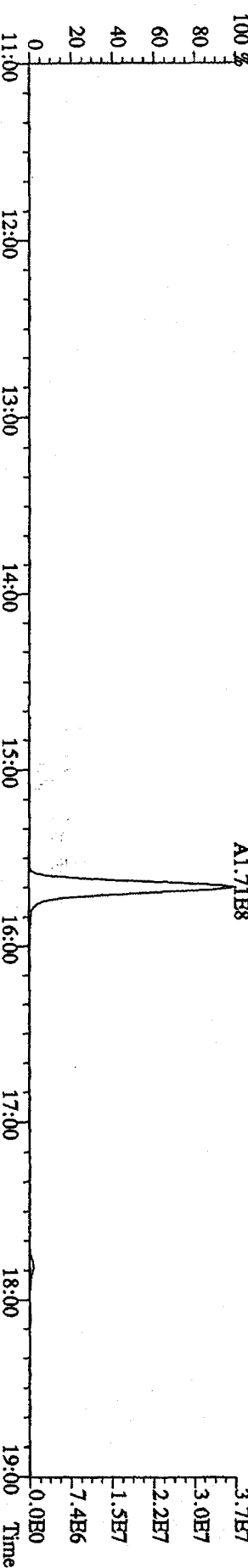
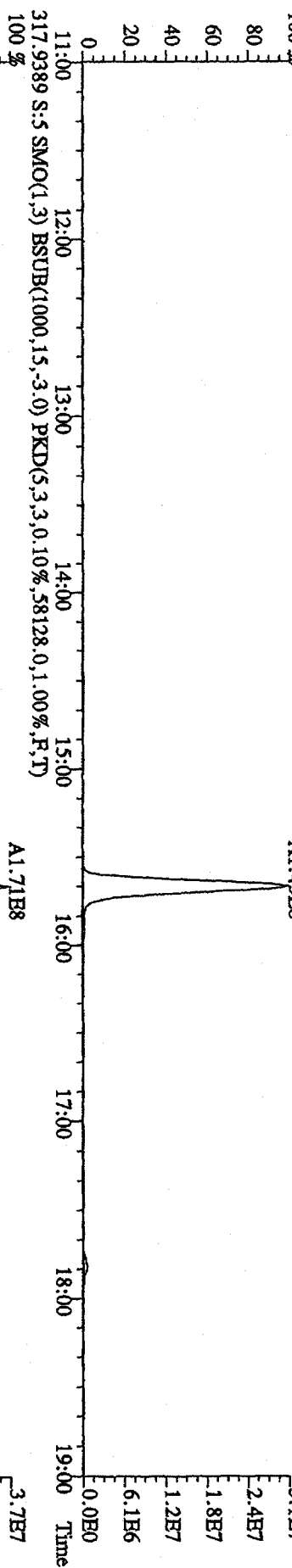
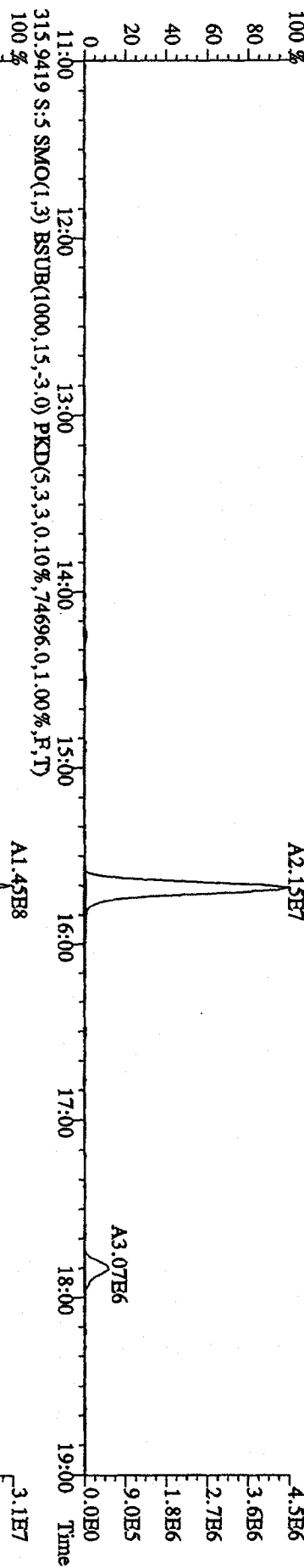
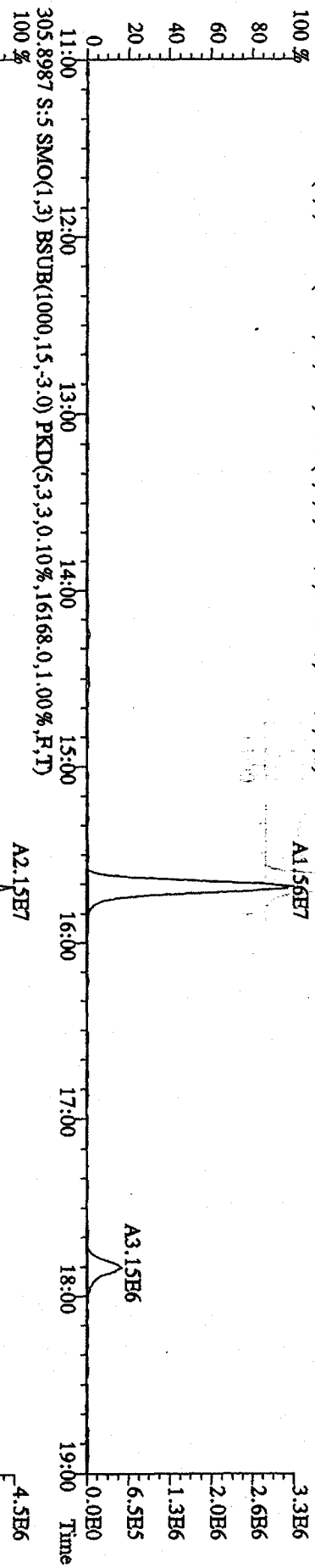
File:21OCC095D2 #1-1242 Acq:21-OCT-2009 23:17:05 GC EI+ Voltage SIR 70SE
 Sample#4 Text:ST1021B :CS2 09DXN237 Exp:DB225
 327.8840 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,36416.0,1.00%,F,T) A3.96E6



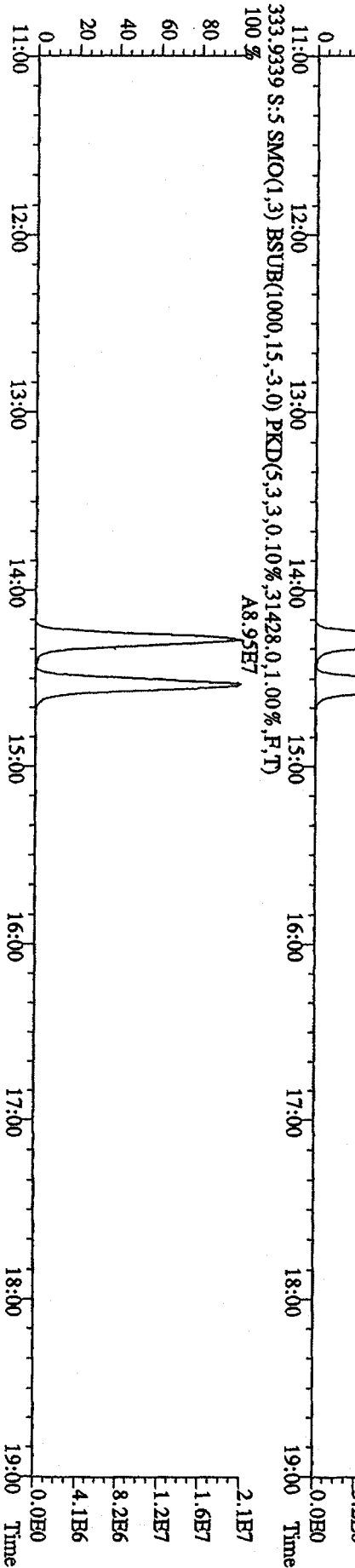
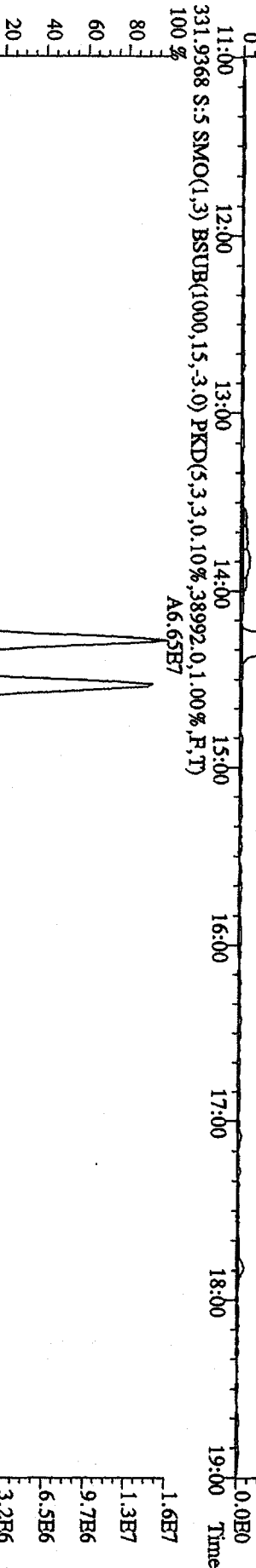
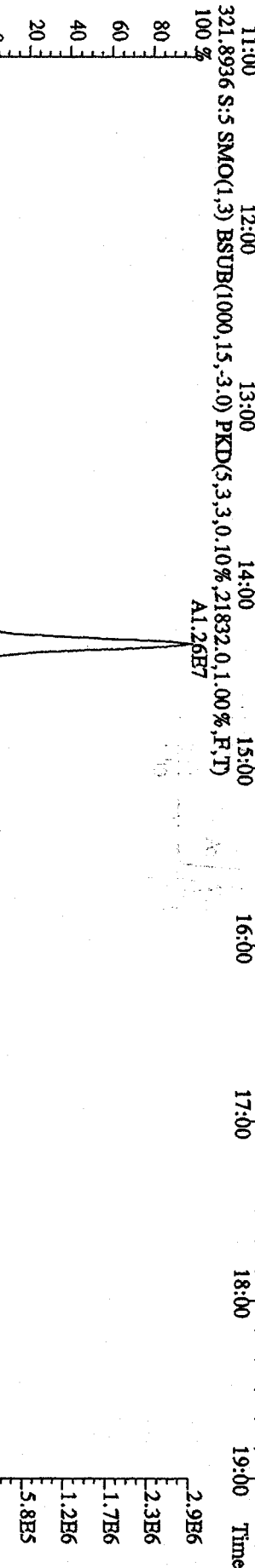
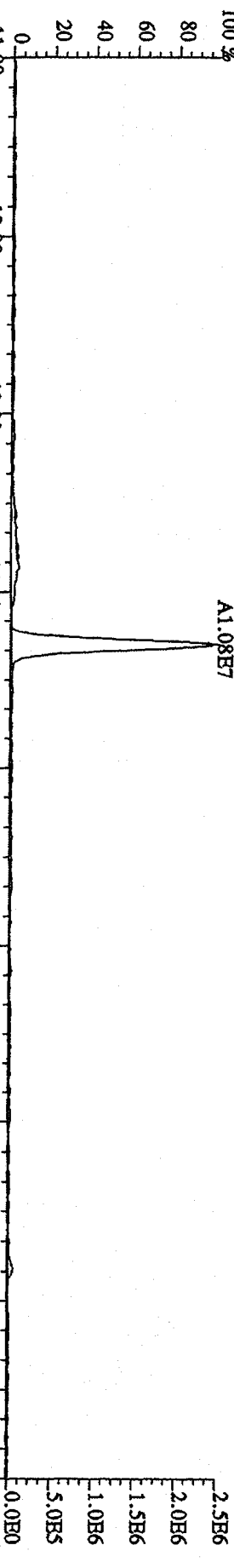
File: 210C09SD2 #1-1242 Acq: 21-OCT-2009 23:17:05 GC EI+ Voltage SIR 70SE
 Sample#4 Text: ST1021B :CS2 09DDXN237 Exp: DB225
 375.8364 S:4 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,100.00%,1.00%,F,T)



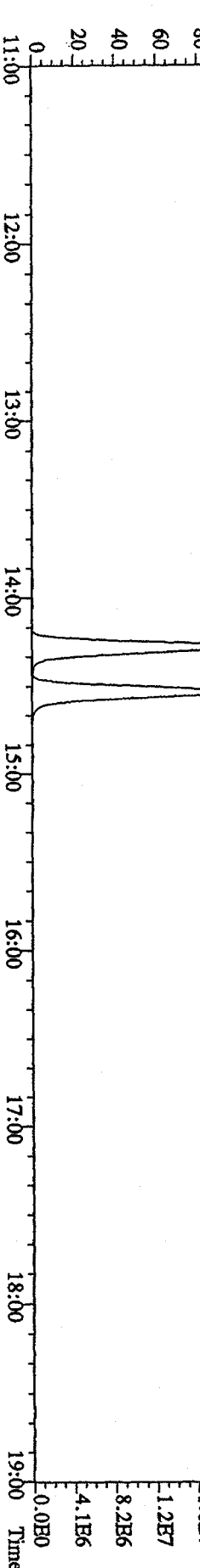
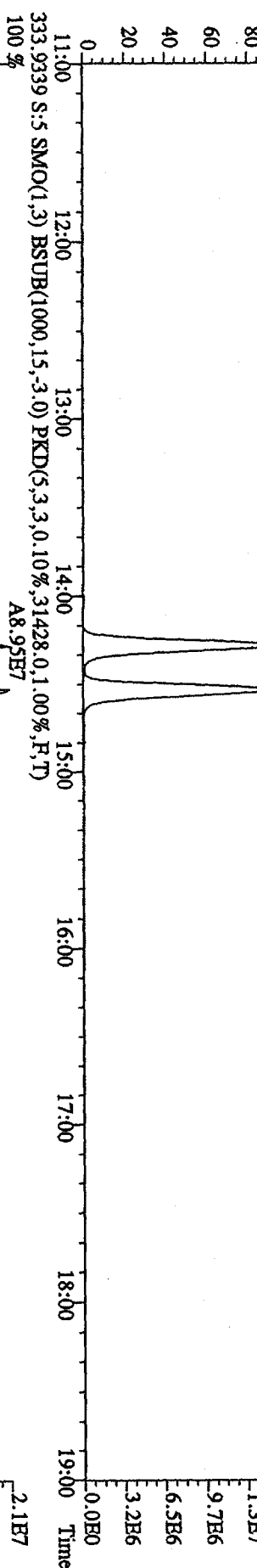
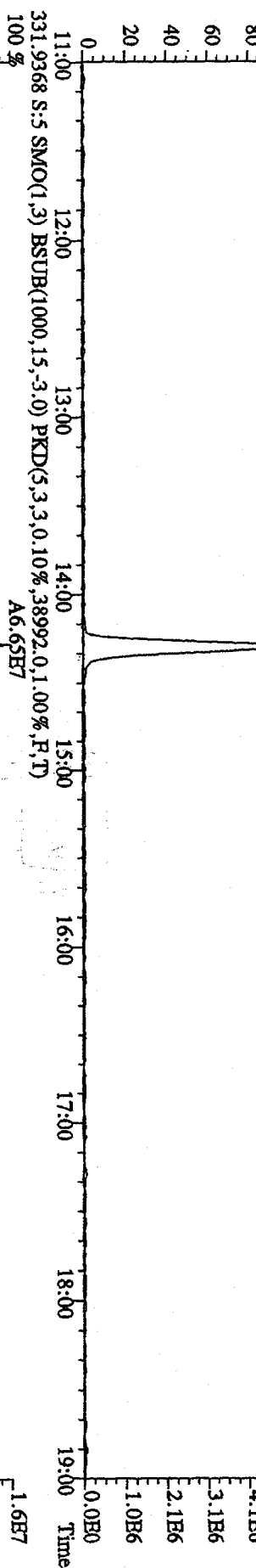
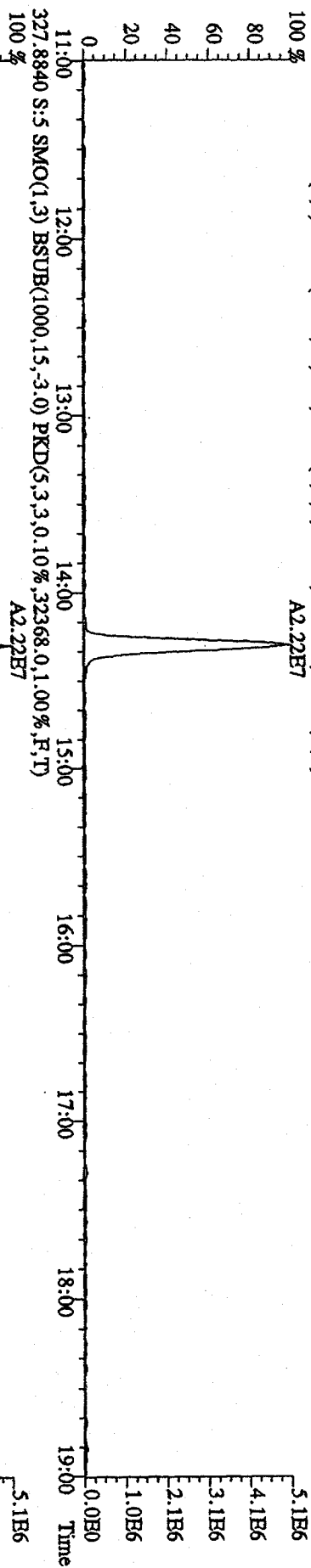
File: 21OCC095D2 #1-1242 Acq: 21-OCT-2009 23:54:06 GC HF+ Voltage SIR 70SE
 Sample#5 Text: ST1021C :CS3 09DXN123 Exp: DB225
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15116,0,1,00%,F,T) 100%



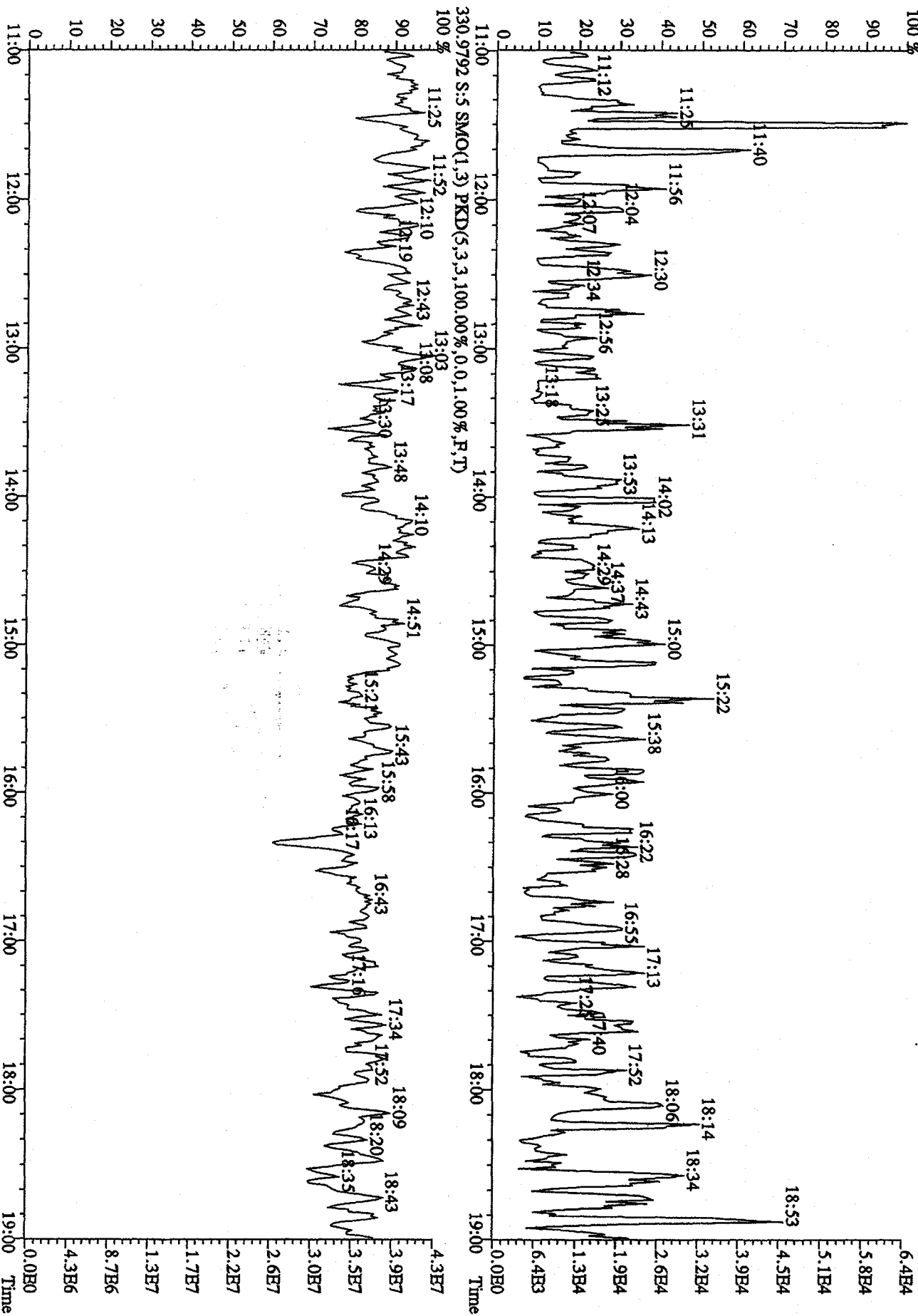
File:21OCT09SD2 #1-1242 Acq:21-OCT-2009 23:54:06 GC EI+ Voltage SIR 70SE
Sample#5 Text:ST1021C :CS3 09DXN123 Exp:DB225
319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17084.0,1.00%,F,T)
A1.08E7



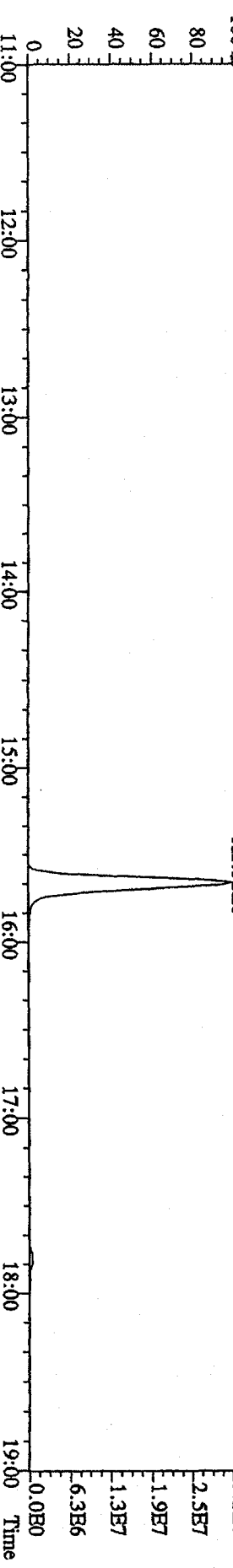
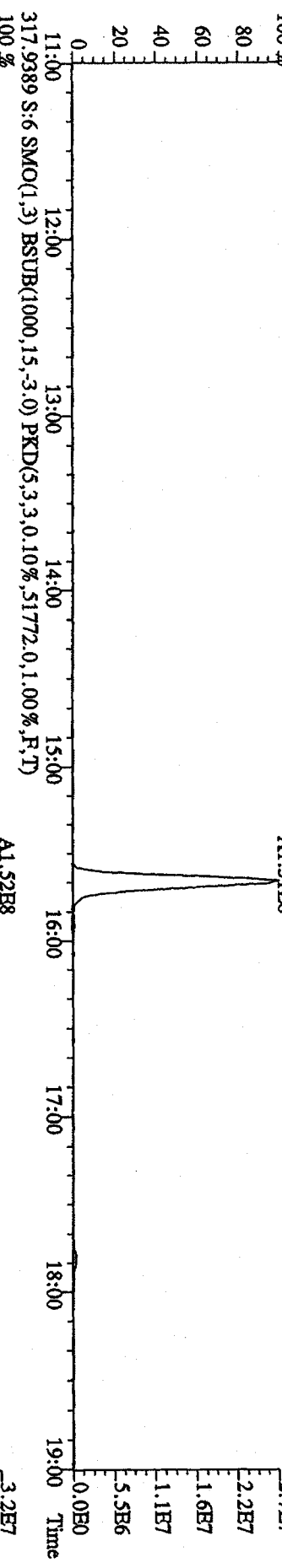
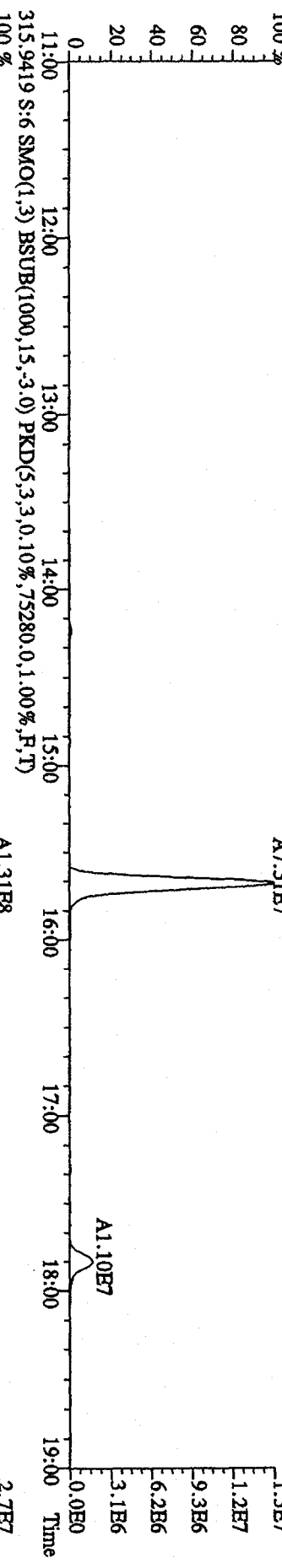
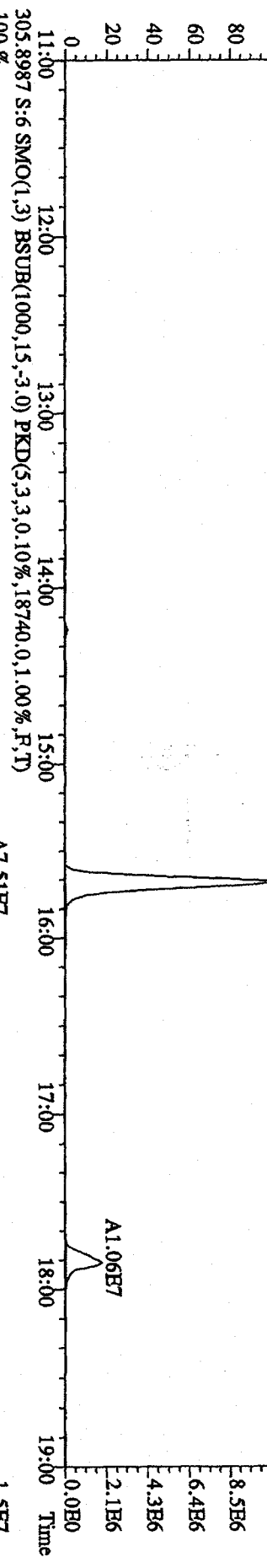
File: 210C095D2 #1-1242 Acq: 21-OCT-2009 23:54:06 GC EI + Voltage SIR 70SB
 Sample#5 Text: ST1021C :CS3 09DXN123 Exp: DB225
 327.8840 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,32368,0,1,00%,F,T)
 100% A2.22E7



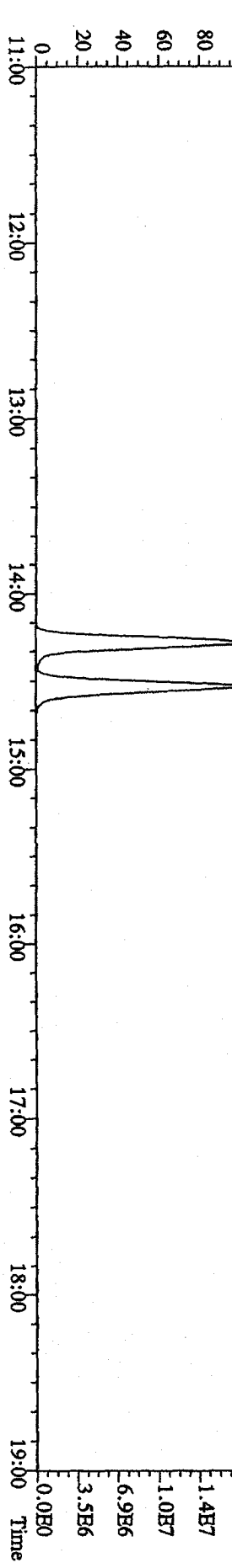
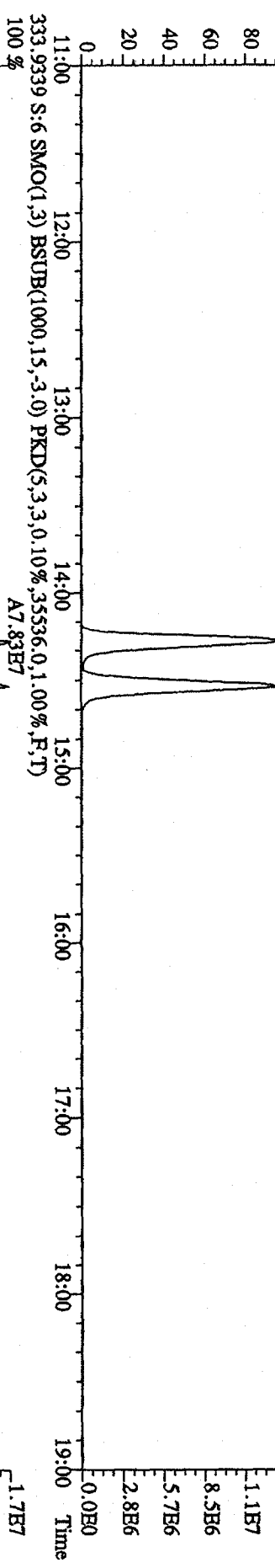
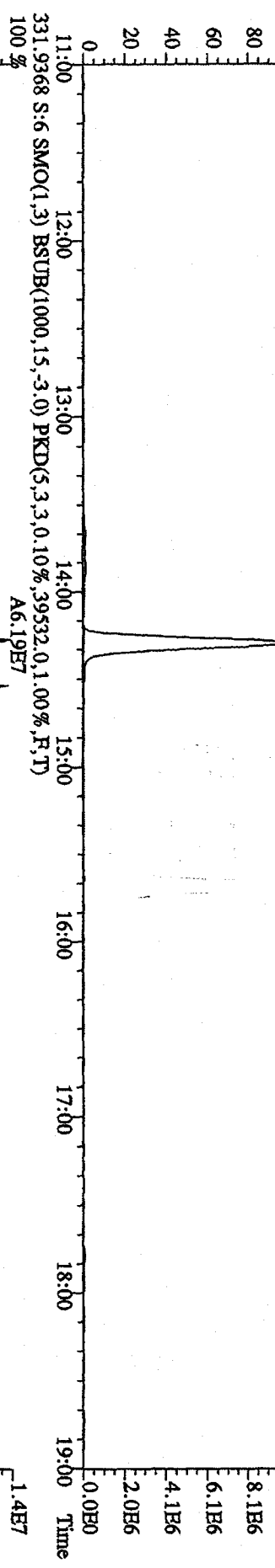
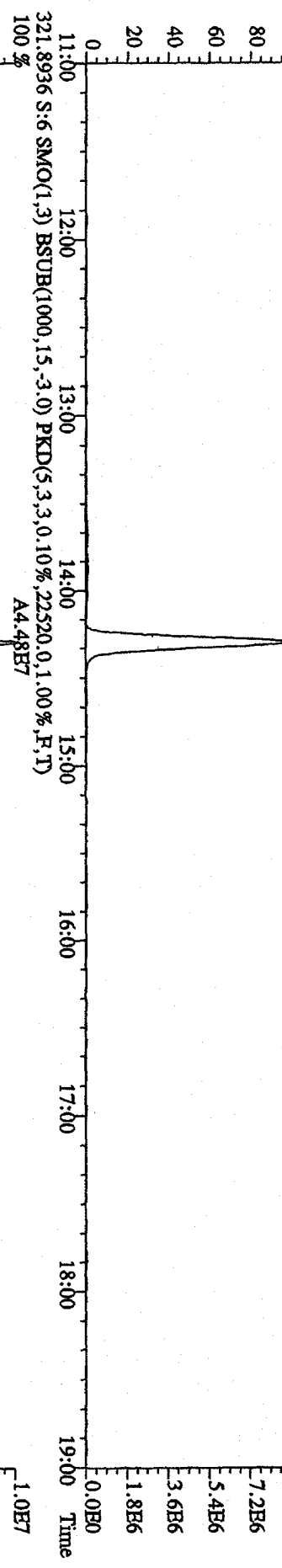
File: 21OCT09SD2 #1-1242 Acq: 21-OCT-2009 23:54:06 GC EI+ Voltage SIR 70SE
 Sample#5 Text: ST1021C :CS3 09DXN123 Exp: DB225
 375.8364 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



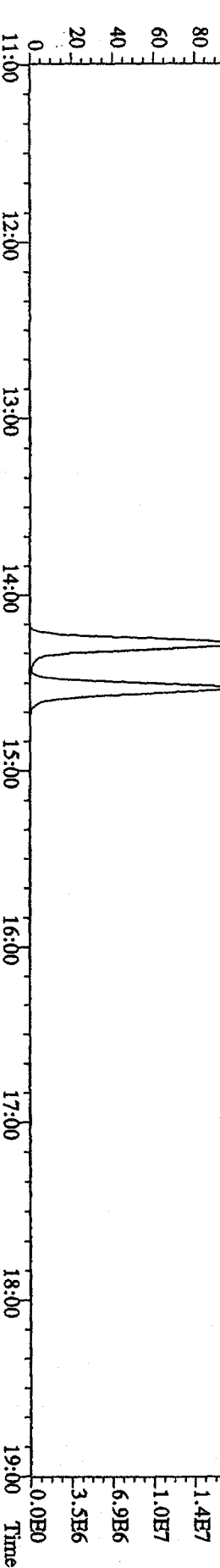
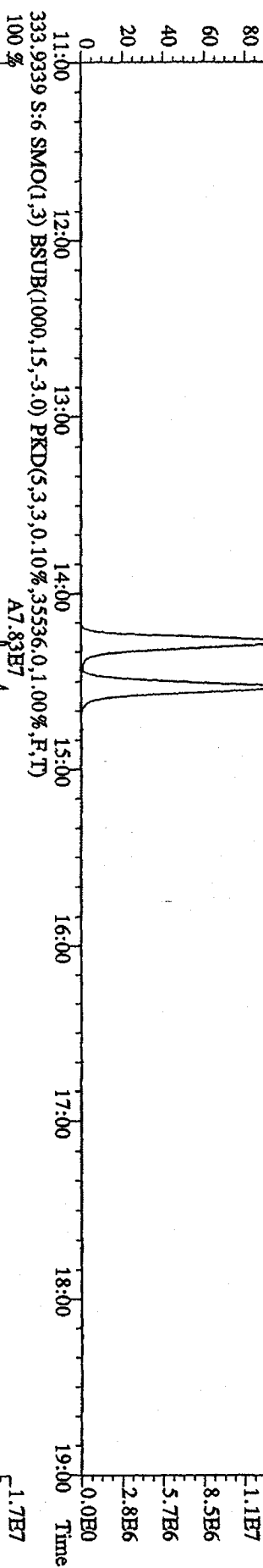
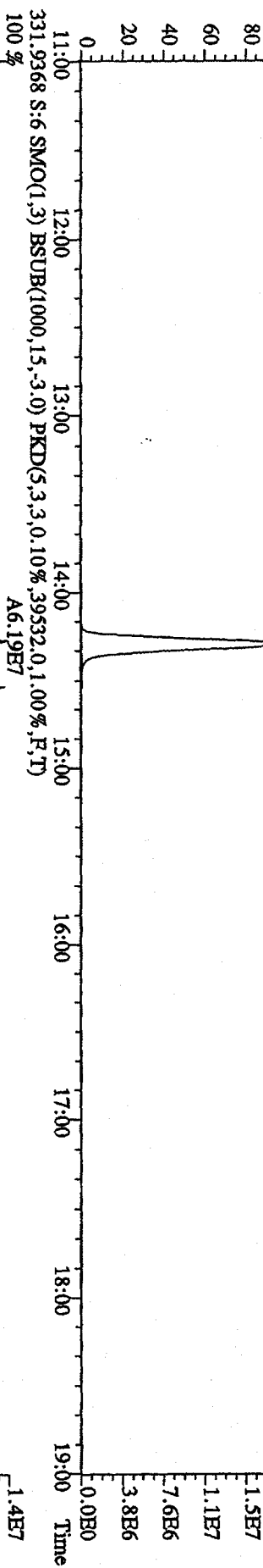
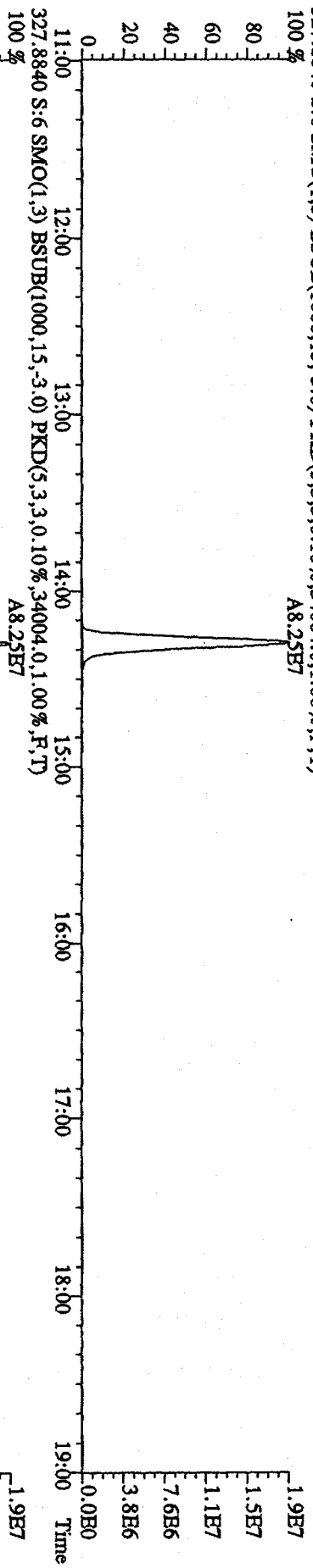
File:21OC09SD2 #1-1242 Acq:22-OCT-2009 00:31:07 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1021D :CS4 09DXN311 Exp:DB225
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,18740,0,1,00%,F,T)
 100 %



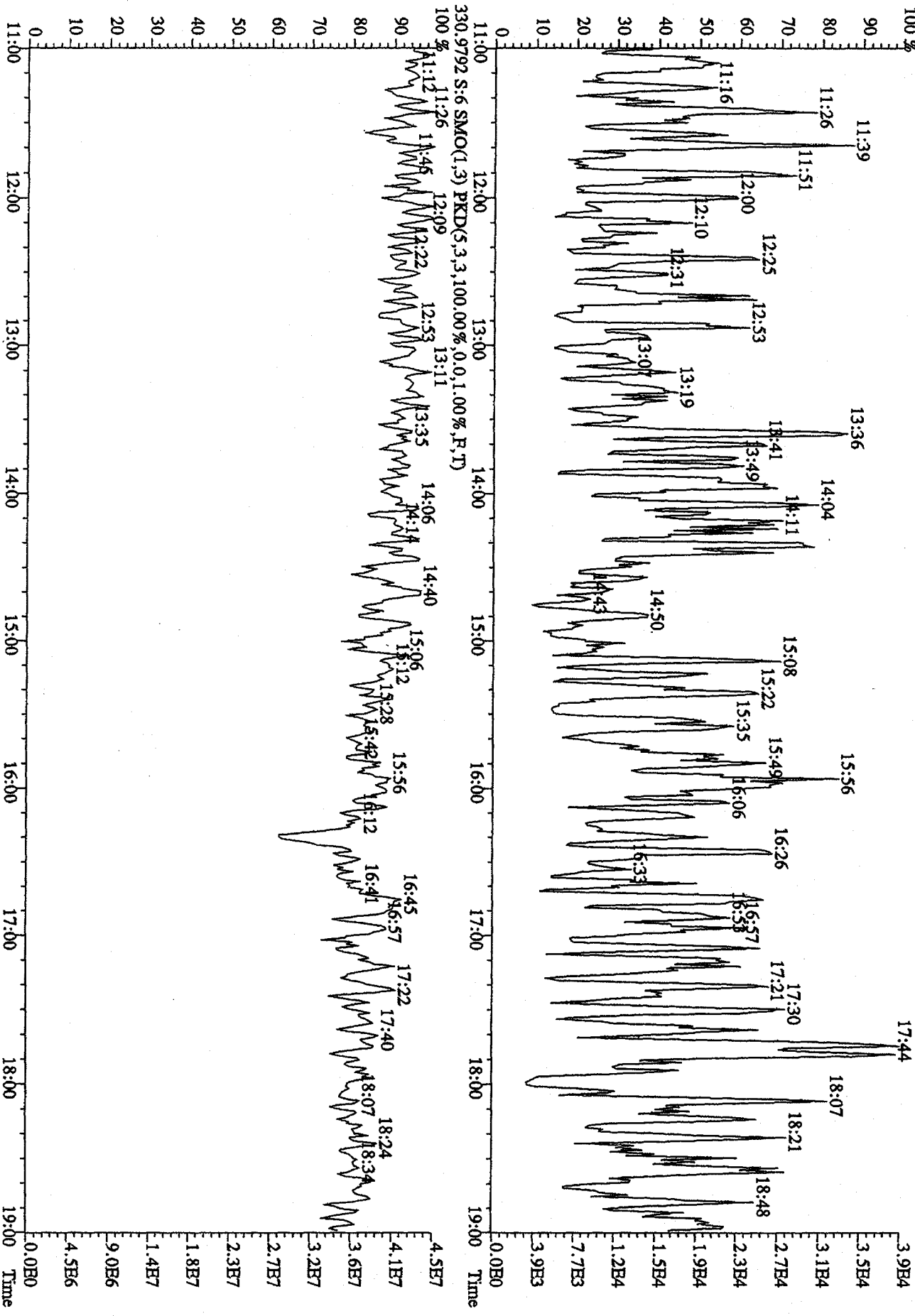
File:210C095D2 #1-1242 Acq:22-OCT-2009 00:31:07 GC EI+ Voltage SIR 70SE
 Sample#6 Text:ST1021D :CS4 09DXN311 Exp:DB225
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,16852.0,1.00%,F,T) 100% A3.93E7



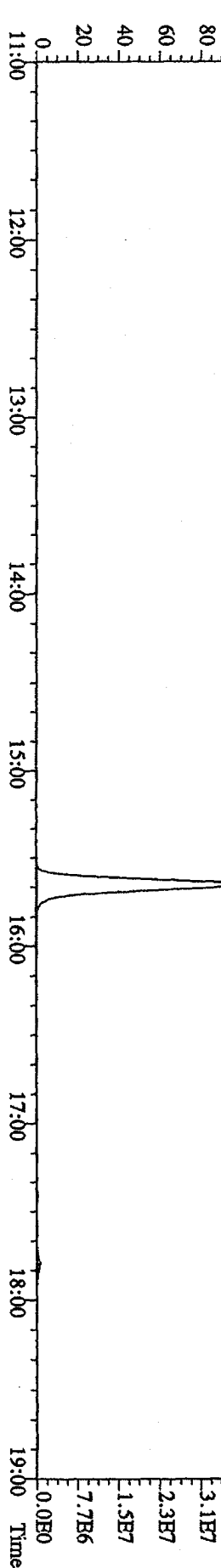
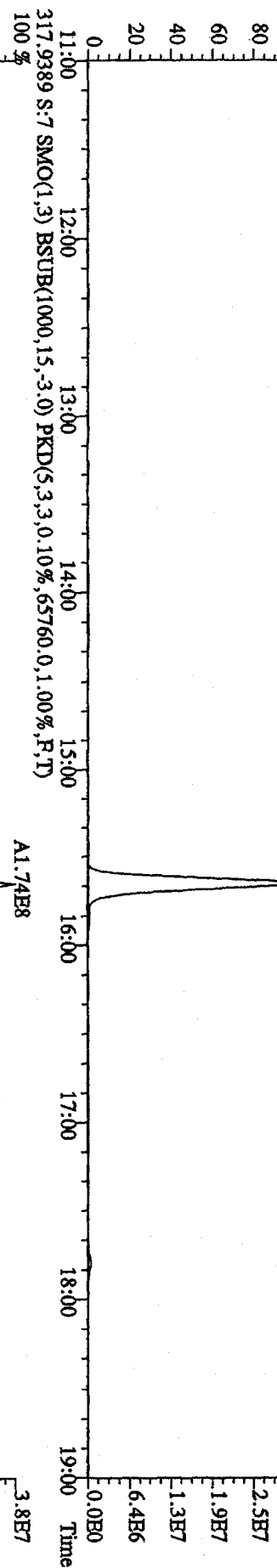
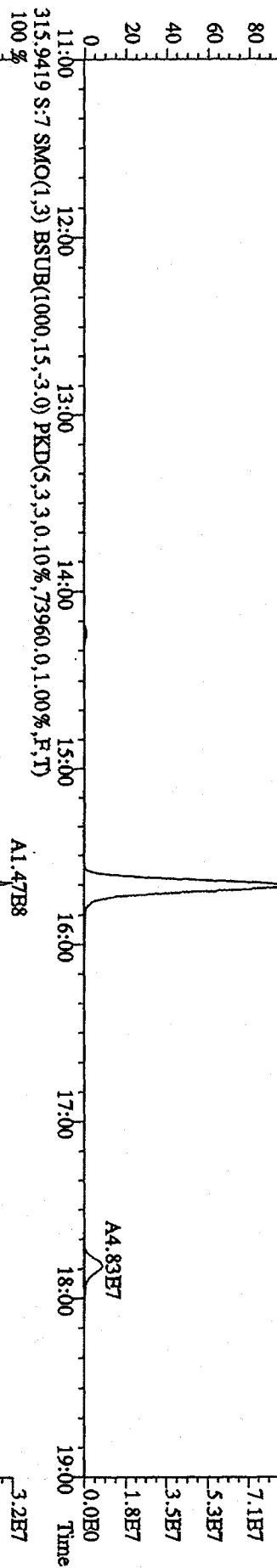
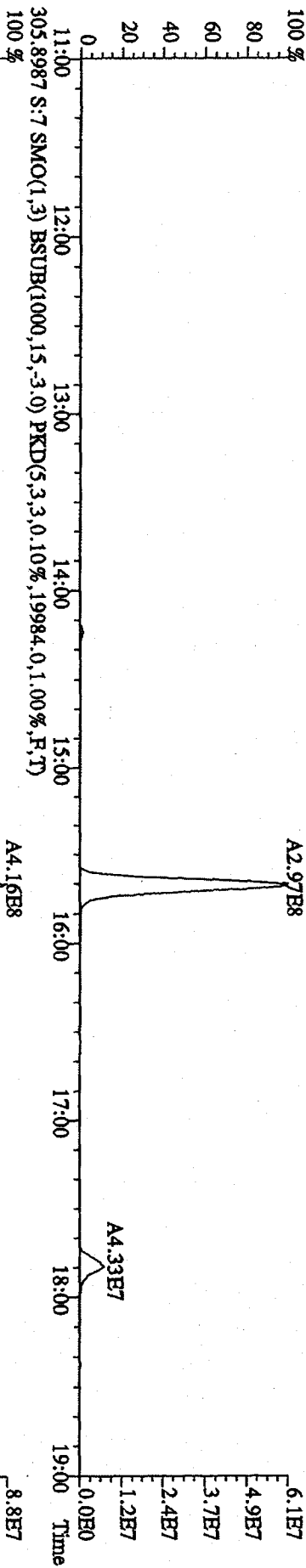
File: 210C095D2 #1-1242 Acq: 22-OCT-2009 00:31:07 GC EI+ Voltage SIR 70SE
 Sample# 6 Text: ST1021D :CS4 09DXN311 Exp: DB225
 327.8840 S: 6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34004.0,1.00%,F,T)
 100%



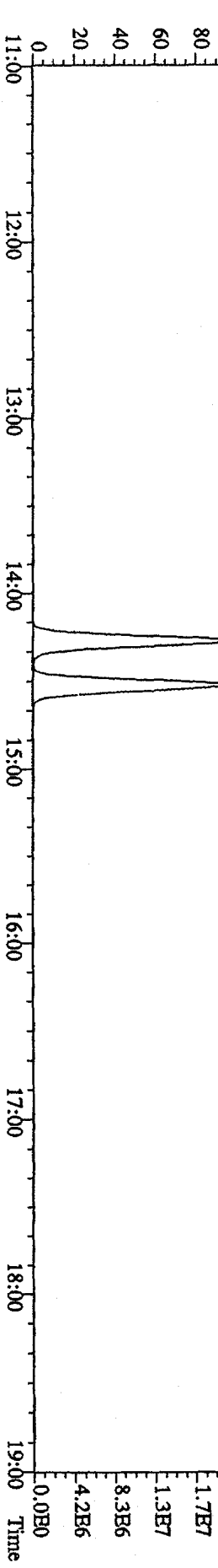
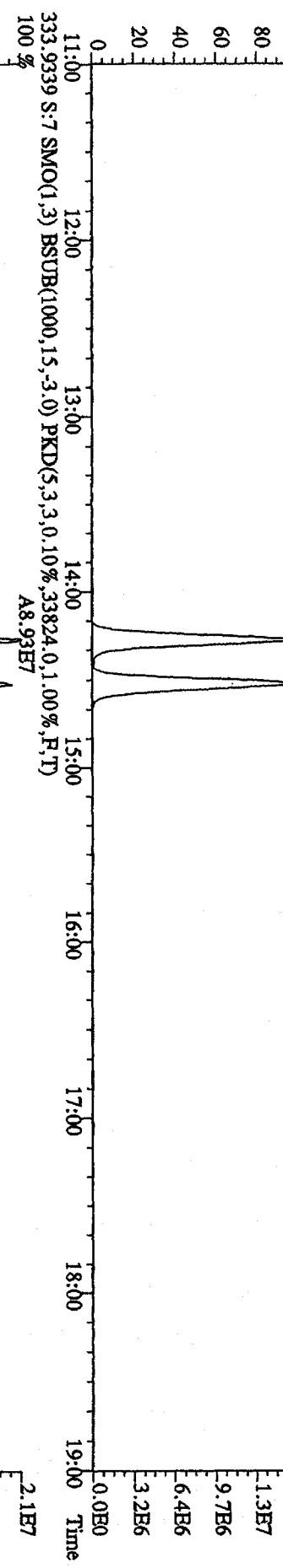
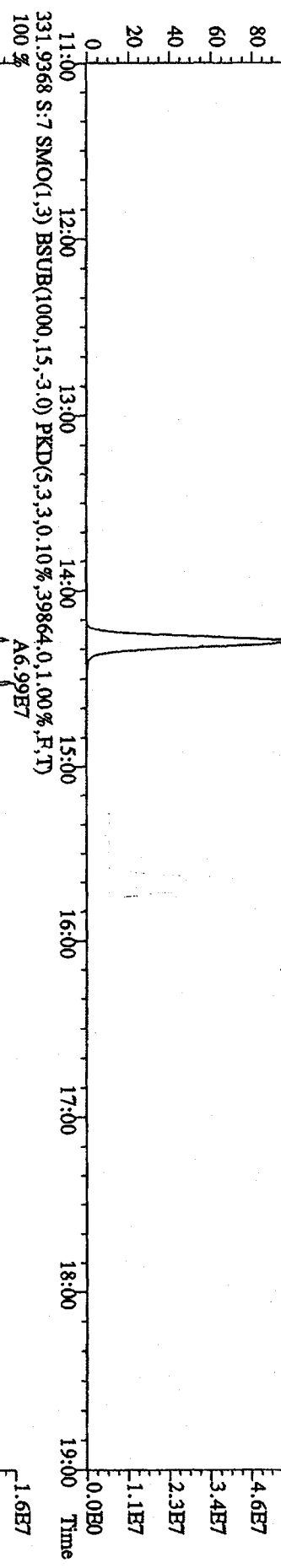
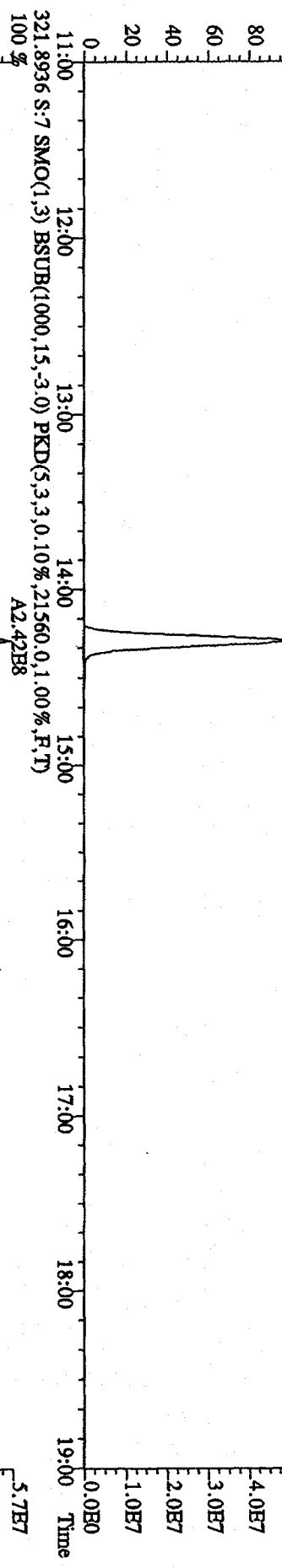
File: 210C095D2 #1-1242 Acq: 22-OCT-2009 00:31:07 GC EI+ Voltage SIR 70SE
 Sample#6 Text: ST1021D :CS4 09DXN311 Exp: DB25
 375.8364 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,16944.0,1.00%,F,T)



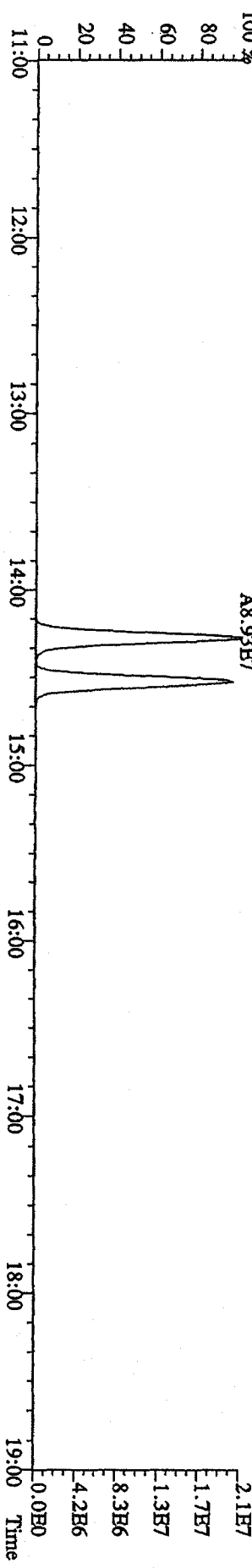
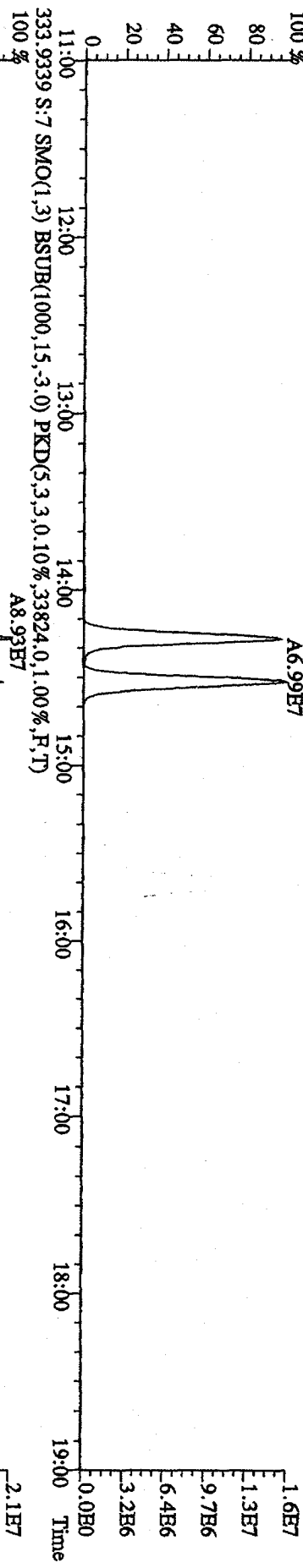
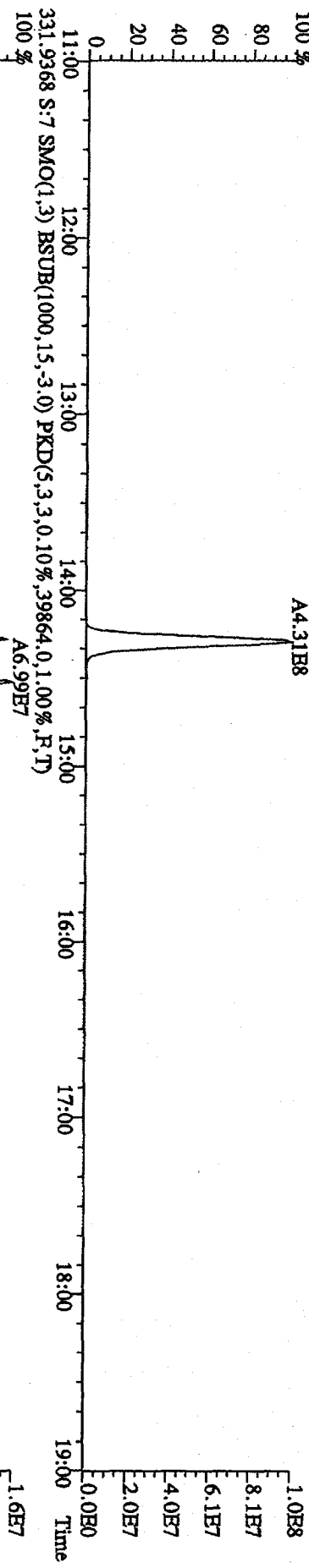
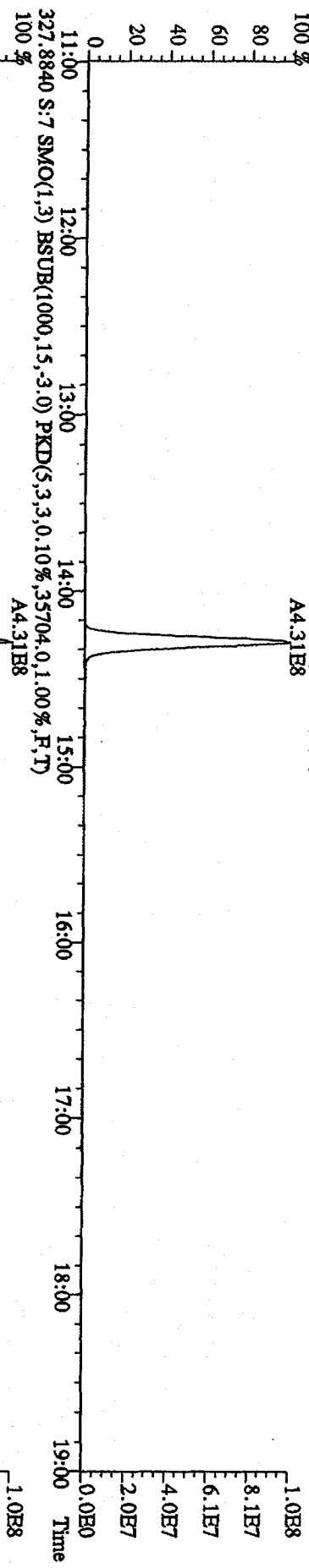
File:21OC095D2 #1-1242 Acq:22-OCT-2009 01:08:10 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1021B :CSS 09DXN240 Exp:DB225
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15620.0,1.00%,F,T) 100 %



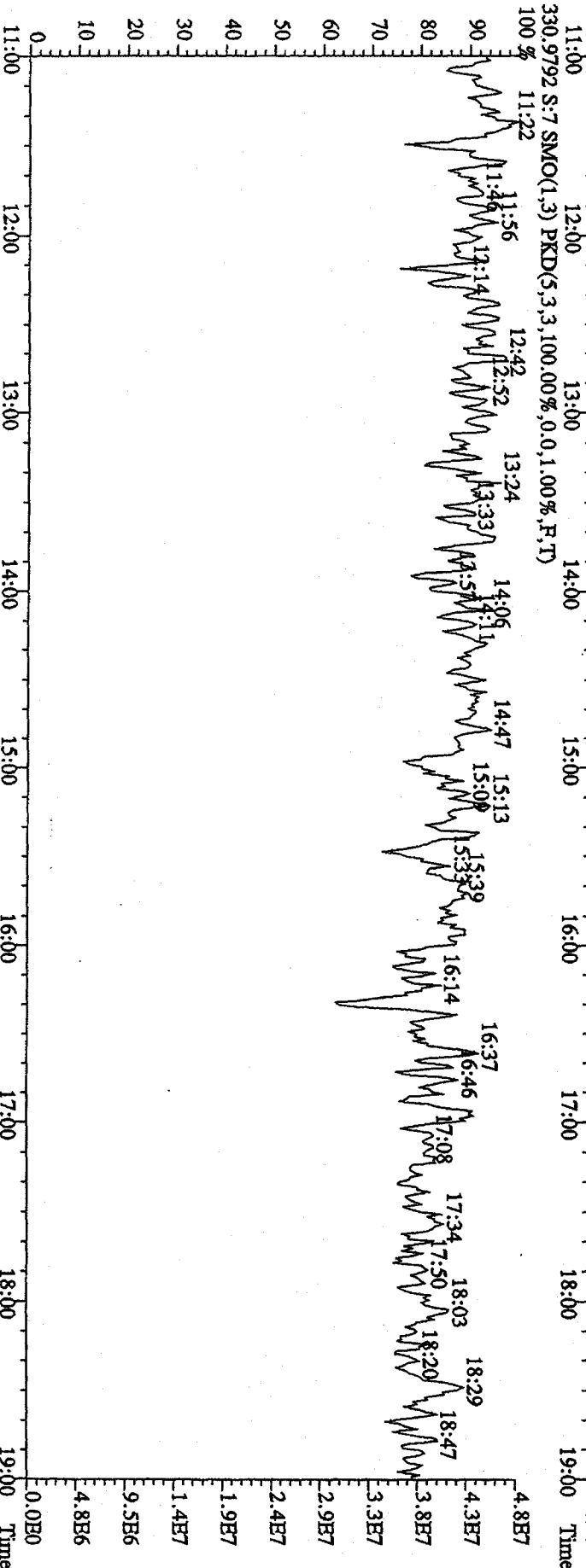
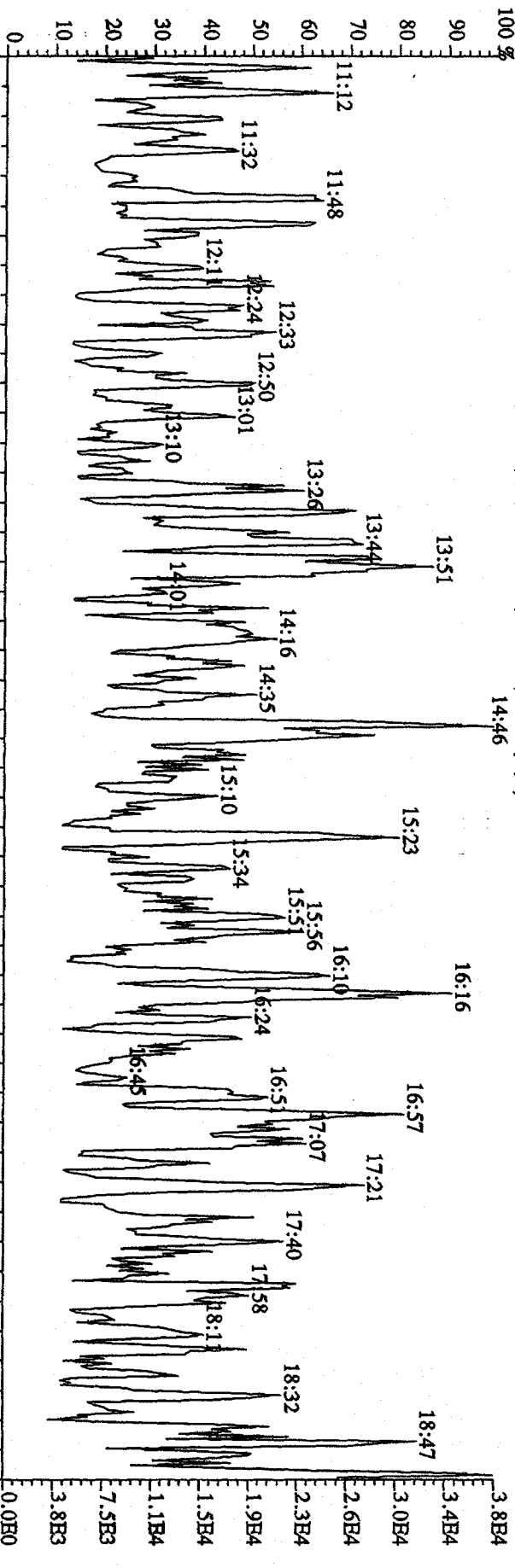
File:21OC095ID2 #1-1242 Acq:22-OCT-2009 01:08:10 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1021E :CSS 09DXN240 Exp:DB225
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,17312.0,1.00%,F,T) A2.11E8



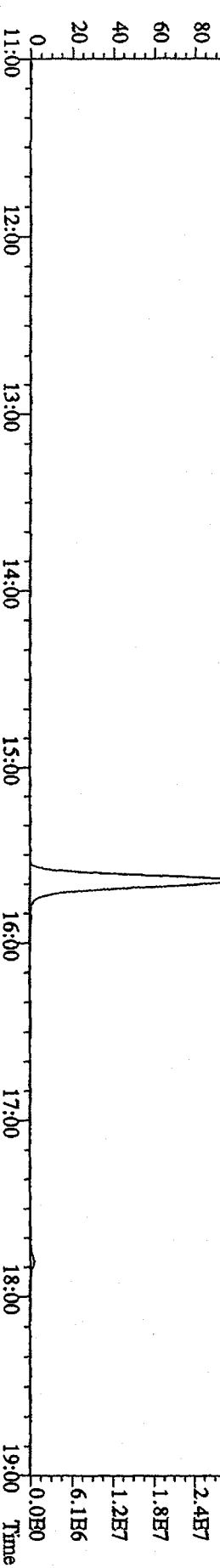
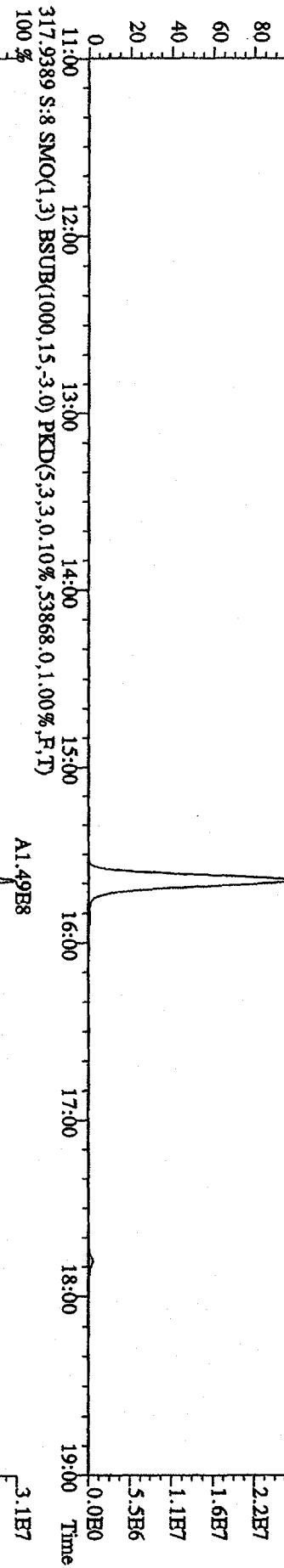
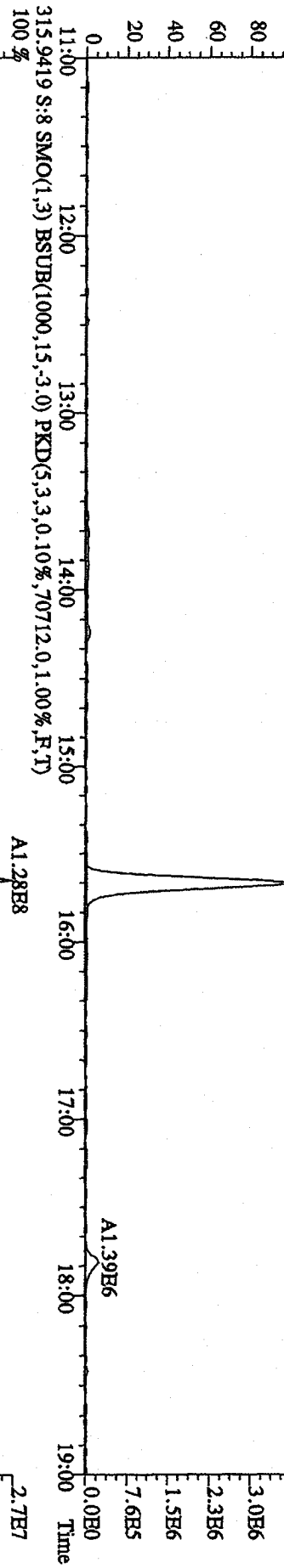
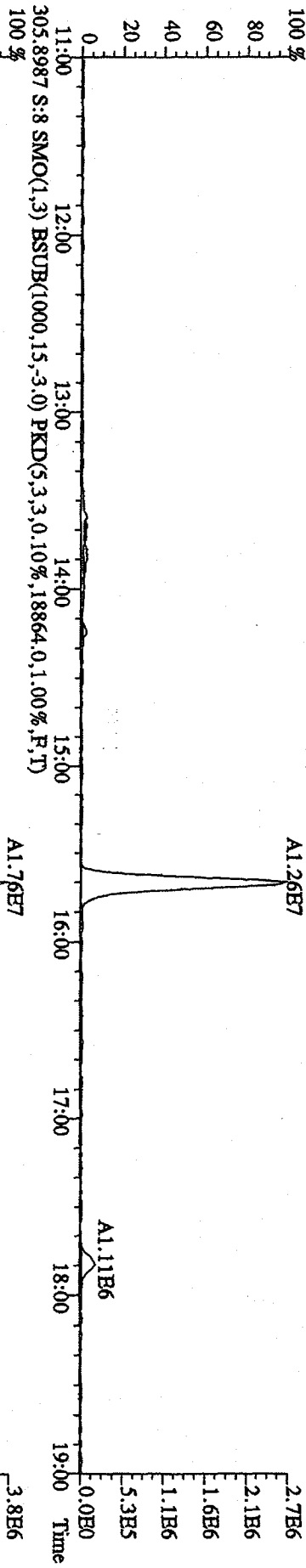
File:21OCC095D2 #1-1242 Acq:22-OCT-2009 01:08:10 GC EI+ Voltage SIR 70SE
Sample#7 Text:ST1021E :CS5 09DXN240 Exp:DB225
327.8840 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,35704.0,1.00%,F,T)
100% A4.31E8



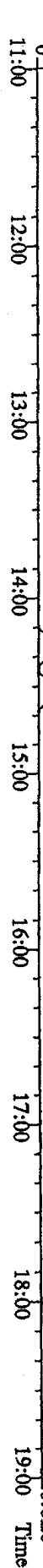
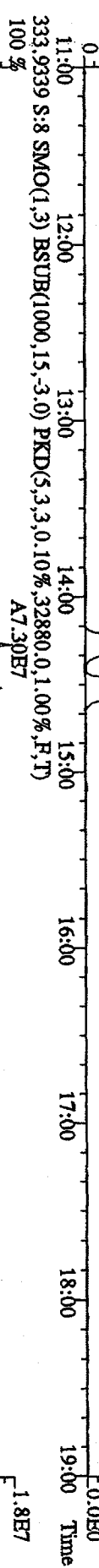
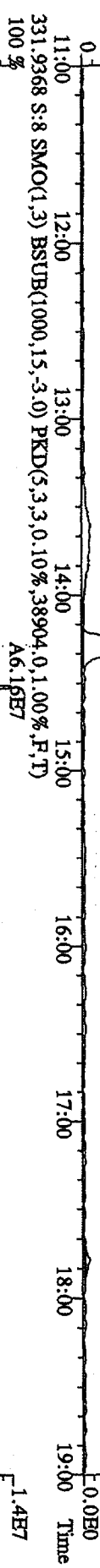
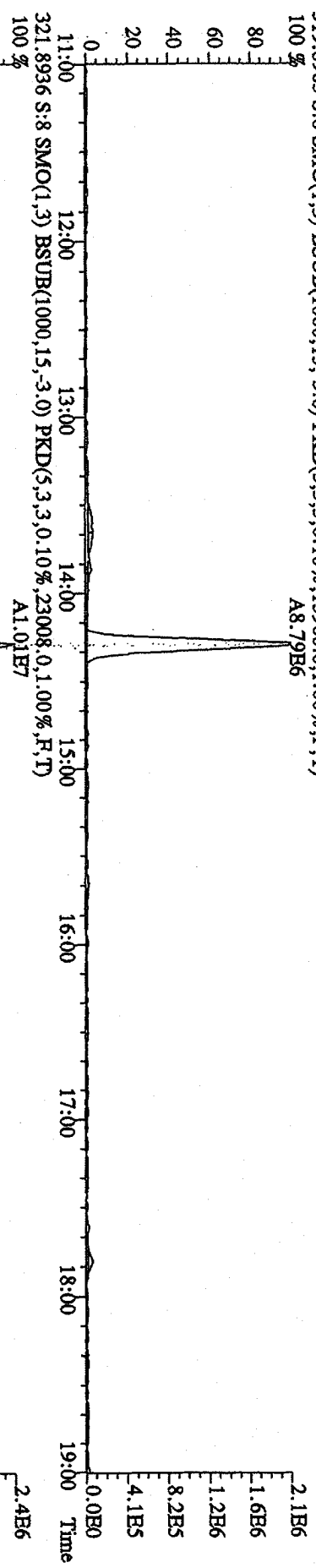
File:21OC095D2 #1-1242 Acq:22-OCT-2009 01:08:10 GC EI+ Voltage SIR 70SE
 Sample#7 Text:ST1021E :CSS 09DXN240 Exp:DB225
 375.8364 S:7 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,15492.0,1.00%,F,T)
 100 %



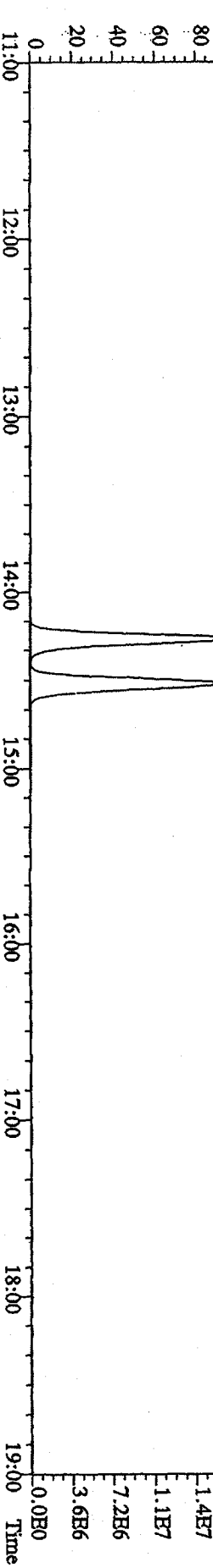
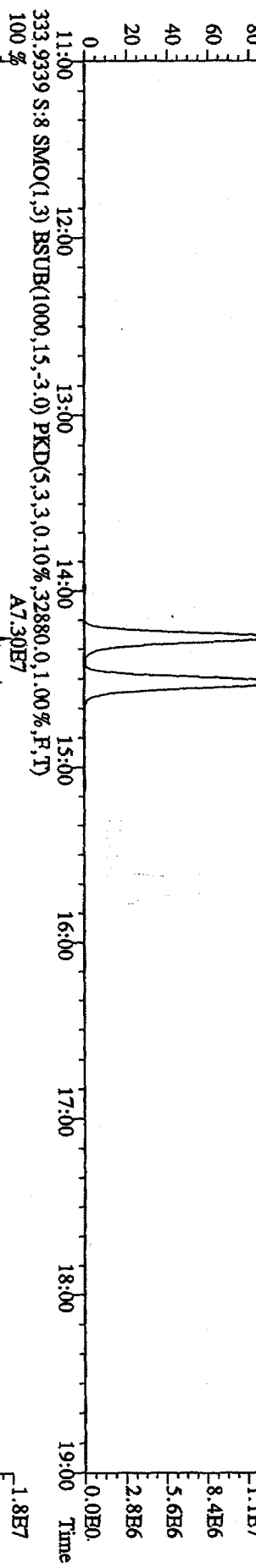
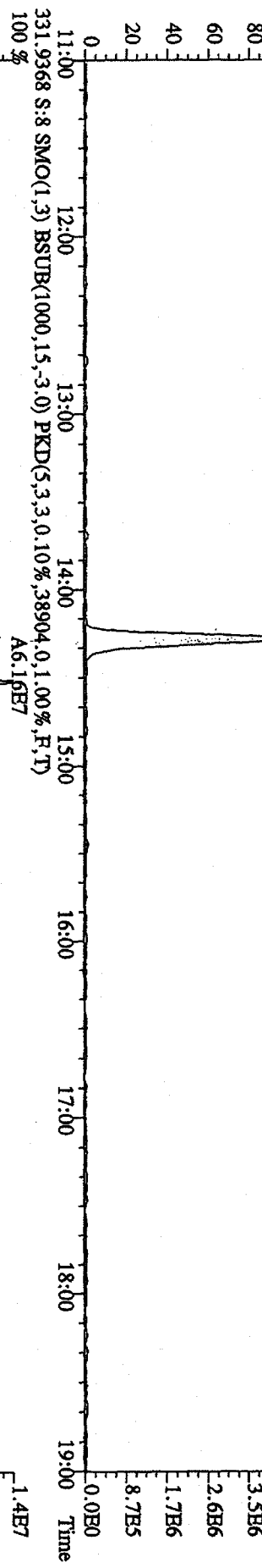
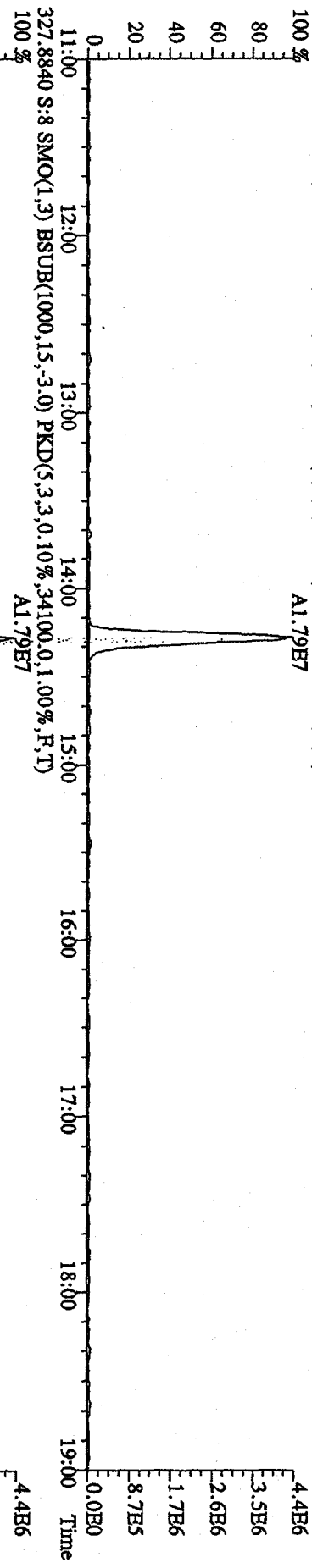
File:21OC095D2 #1-1242 Acq:22-OCT-2009 01:45:11 GC EI+ Voltage SIR 70SE
 Sample#8 Text:ST1021F 2nd Source 09DXN300 Exp:DB225
 303.9016 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,15592.0,1.00%,F,T) 100%



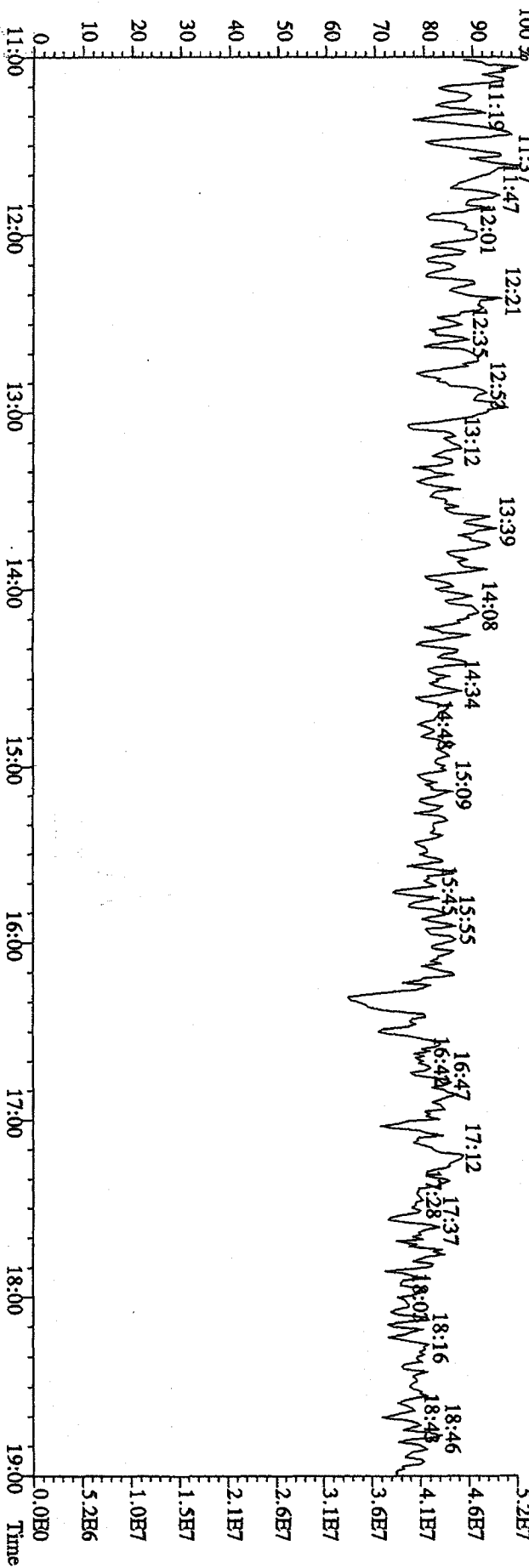
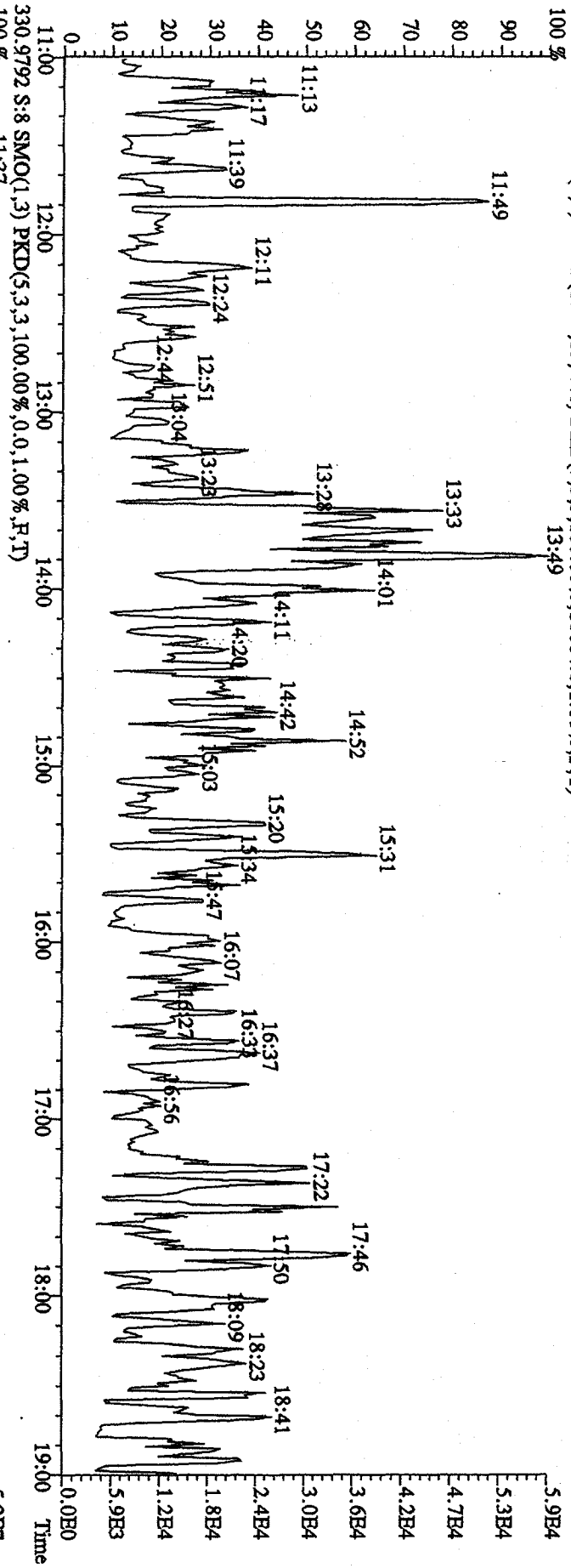
File:210C095D2 #1-1242 Acq:22-OCT-2009 01:45:11 GC HI+ Voltage SIR 70SE
 Sample#8 Text:ST1021F :2nd Source 09DXN300 Exp:DB225
 319.8965 S:8 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15960,0,1,00%,F,T)



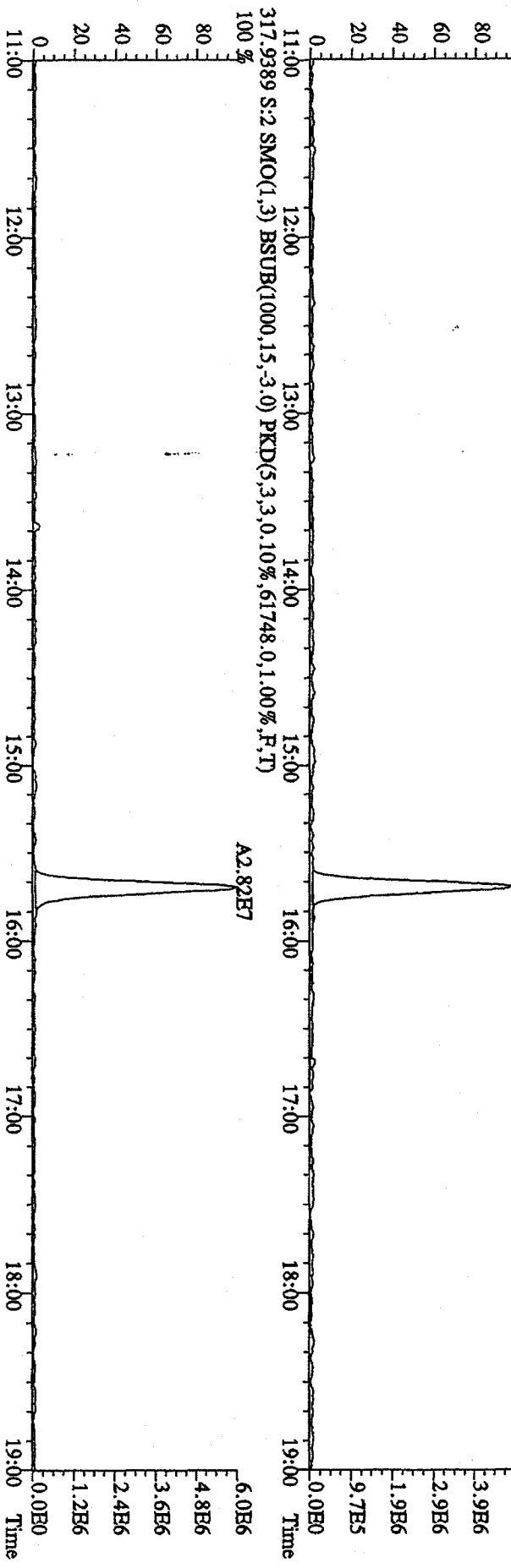
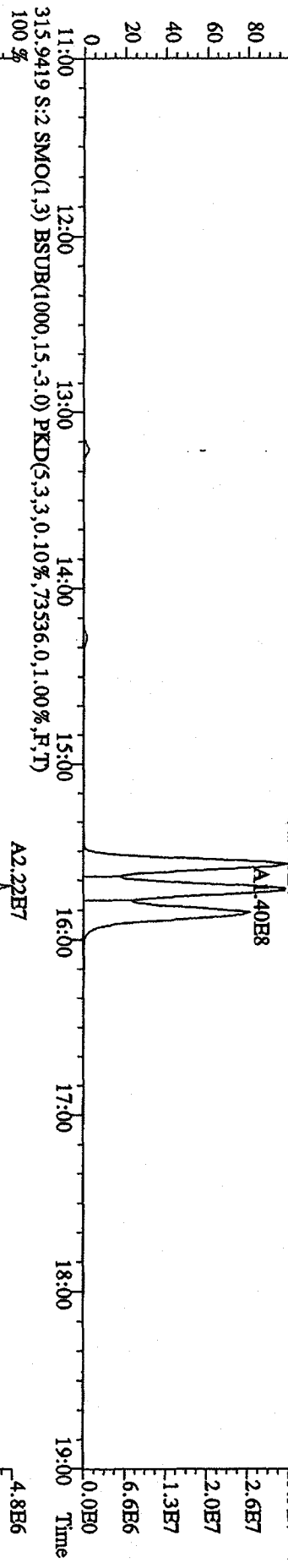
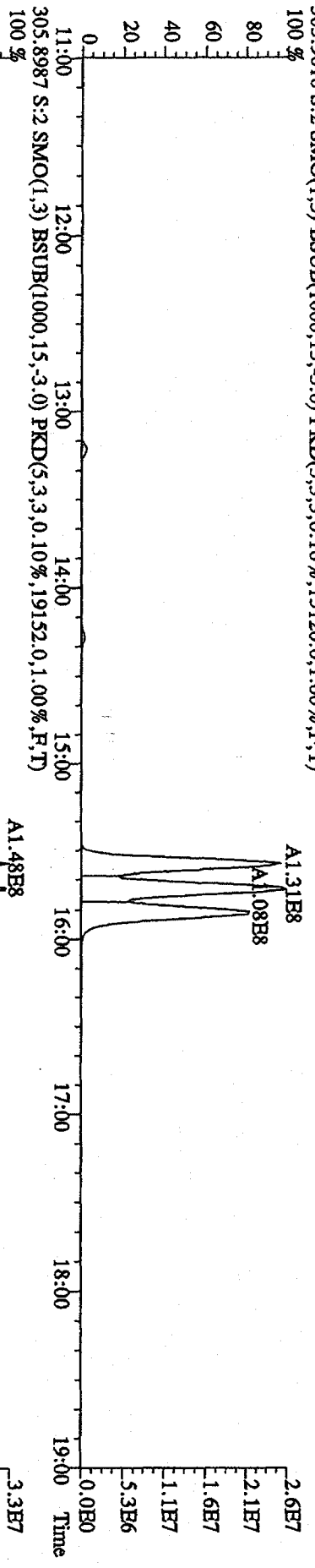
File:210C095D2 #1-1242 Acq:22-OCT-2009 01:45:11 GC HI+ Voltage SIR 70SE
 Sample#8 Text:ST1021F :2nd Source 09DXN300 Exp:DB225
 327.8840 S:8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,34100,0.1,00%,F,T)
 100% A1.79E7



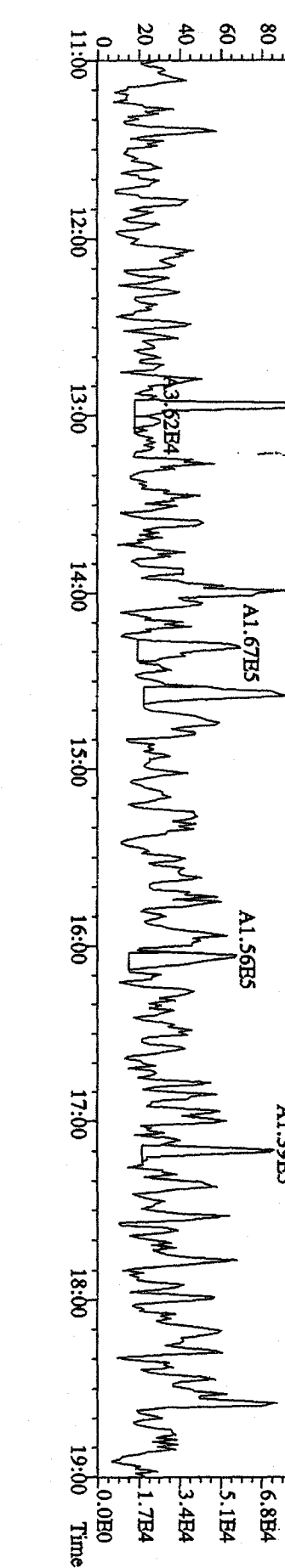
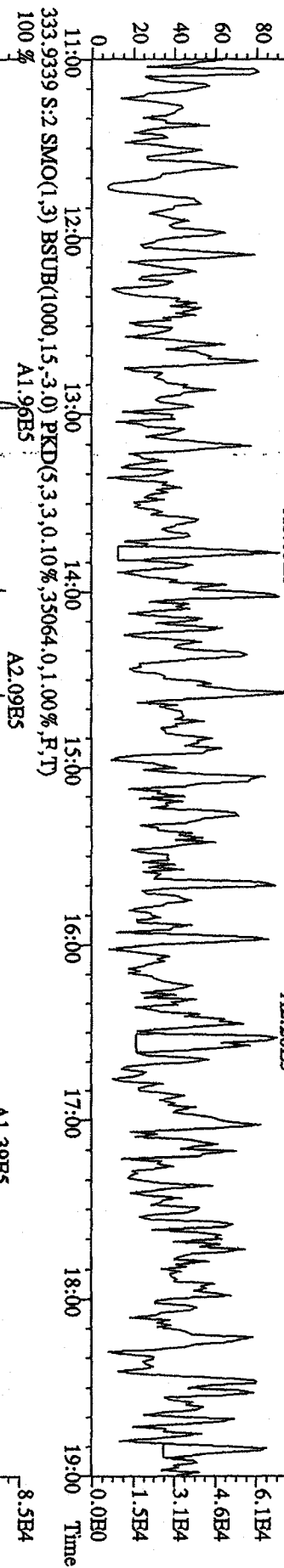
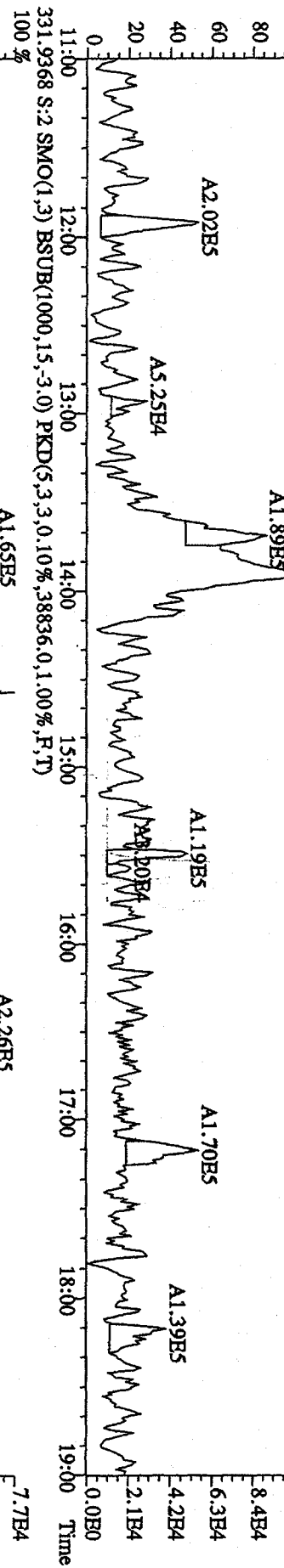
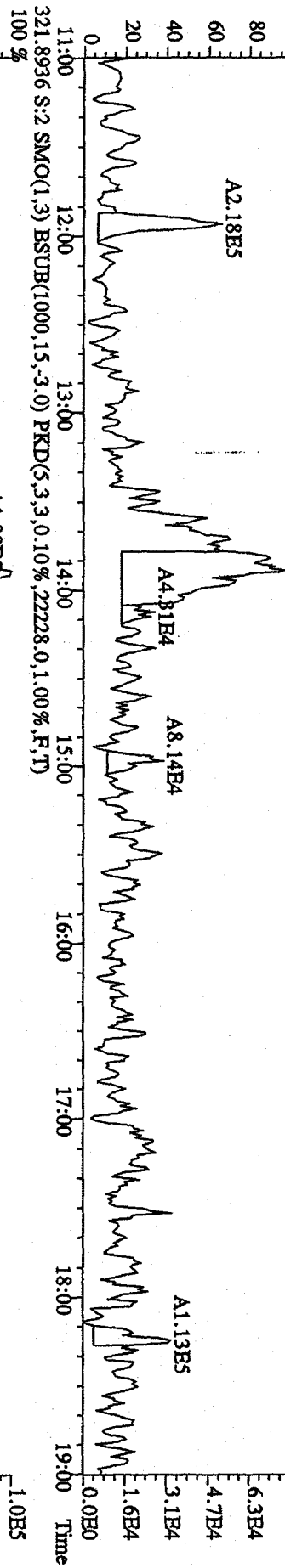
File: 210C095D2 #1-1242 Acq: 22-OCT-2009 01:45:11 GC EI + Voltage SIR 70SE
 Sample#8 Text: ST1021F : 2nd Source 09DXN300 Exp: DB225
 375.8364 S: 8 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,100.00%,1.6664,0,1.00%,F,T)



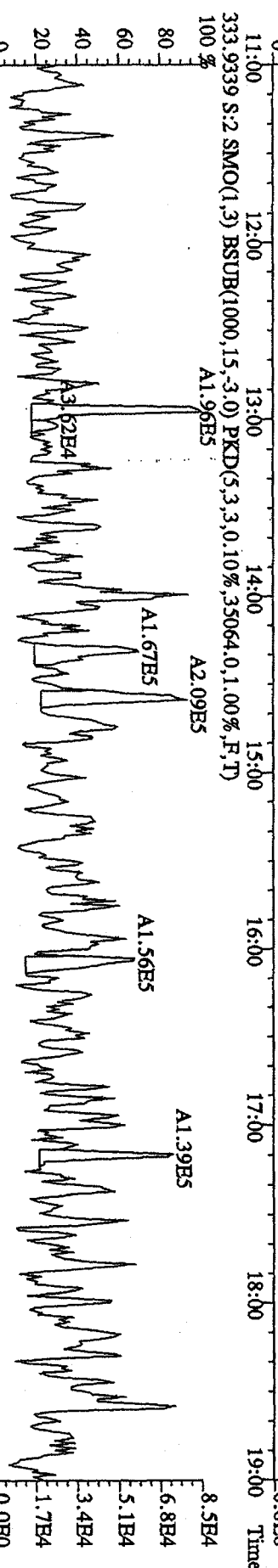
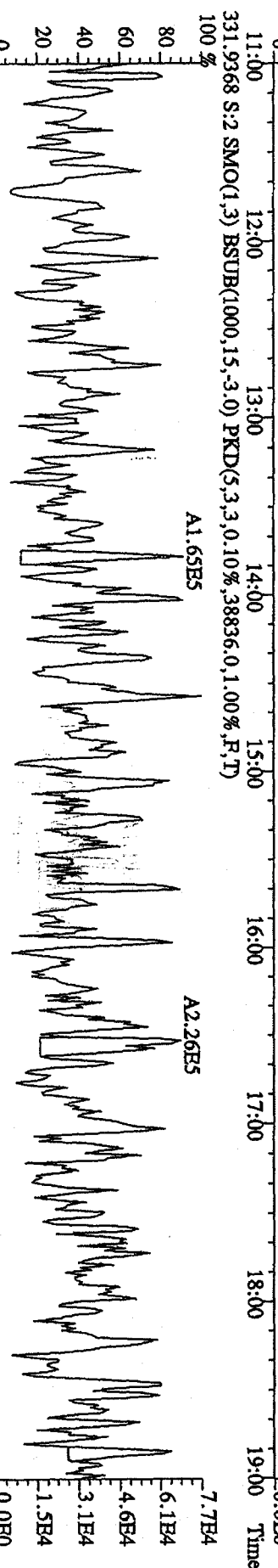
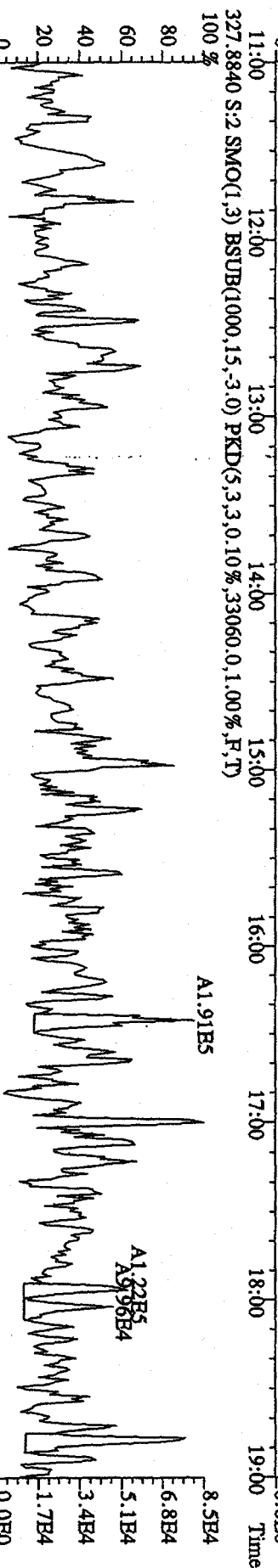
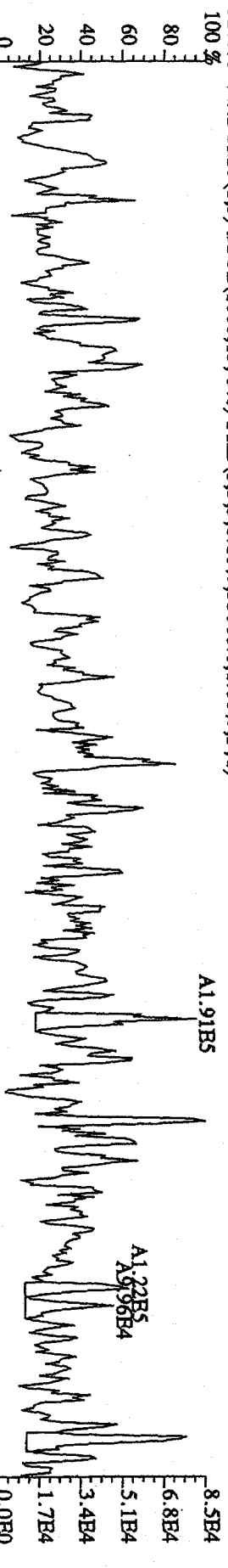
File:21OCC095D2 #1-1242 Acq:21-OCT-2009 22:03:00 GC EI+ Voltage SIR 70SE
 Sample#2 Text:CP1021 :DB-225 CPM 3732-01 Exp:DB225
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,15120,0,1,00%,F,T)



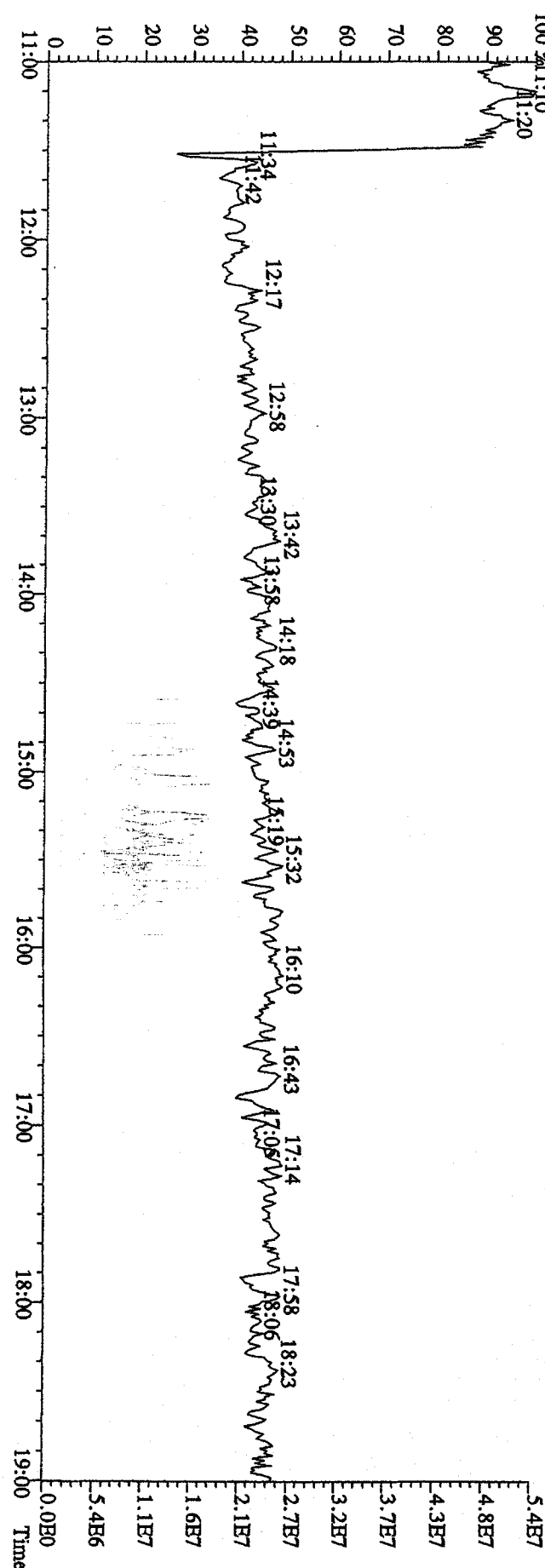
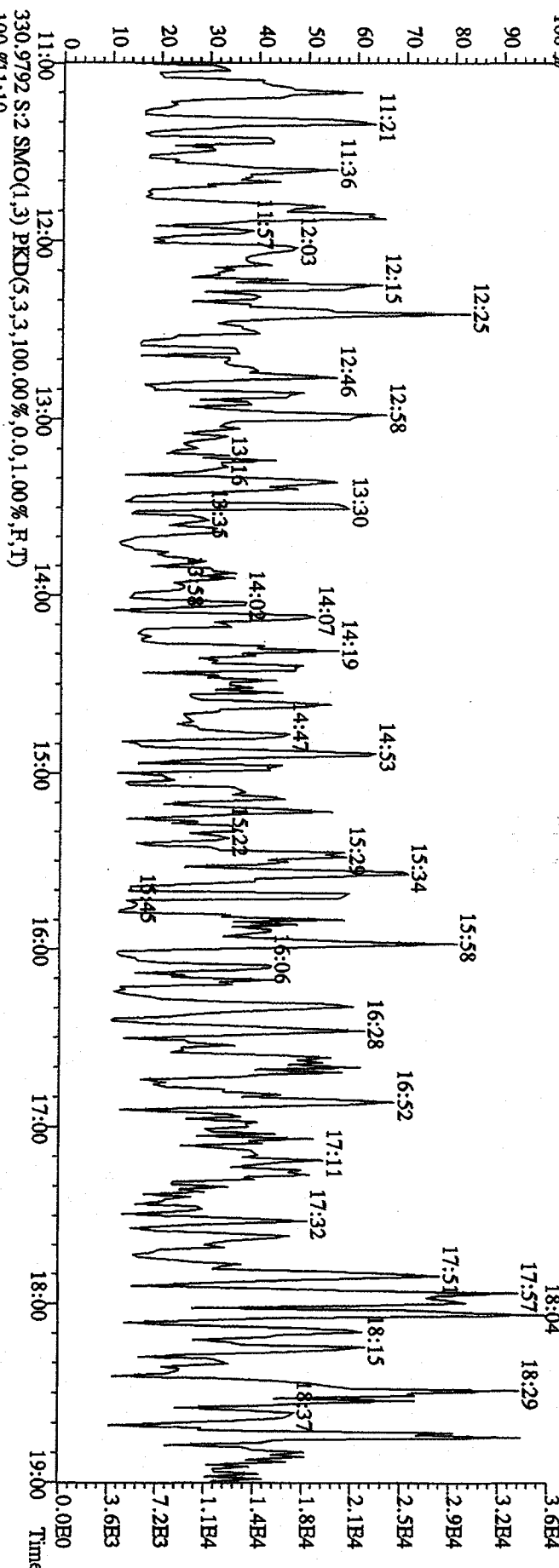
File:21OCT09SD2 #1-1242 Acq:21-OCT-2009 22:03:00 GC HI + Voltage SIR 70SE
 Sample#2 Text:CP1021 :DB-225 CPISM 3732-01 Exp:DB225
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,16996.0,1.00%,F,T)
 100% A7.27E5



File: 21OC095D2 #1-1242 Acq: 21-OCT-2009 22:03:00 GC HI+ Voltage SIR 70SE
 Sample#2 Text: CP1021 :DB-225 CP5M 3732-01 Exp: DB225
 327.8840 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,33060,0,1,00%,F,T)



File: 210C095D2 #1-1242 Acq: 21-OCT-2009 22:03:00 GC EI+ Voltage SIR 70SE
 Sample#2 Text: CP1021 :DB-225 CPISM 3732-01 Exp: DB225
 375.8364 S: 2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100%



Sample Extraction/Preparation Log
Copies and Checklists

**TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan AQ Extraction**

Box # 64
 Shared QC Batch: SAME
 Shares QC With: 9348333
9348 34H

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Internal COC:	
Delivered to Inst.:	<u>L12109</u>
Inst Receipt:	

Batch: 9348326
 MS Run #:
 Prep Date: 12/14/2009
 Method: IN 8290
 Matrix: I WATER
 Extraction: 09 LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - Nominal
 QC: 01 STANDARD TEST SET
 SAC: IN - I - 09 - 01

Prep Reagents		
Reagent	Supplier	Lot #
DCM	Baker	#33503
Hexane	Baker	#30E30
H2SO4	Baker	NA
20% DCM:Hexane	NA	3030-43A
65% DCM:Hexane	NA	3030-43B
1:1 DCM:Cyclohexane	NA	NA
75:20:5 DCM:Hexane:Benzene	NA	NA
Silica Gel	Whatman	2222
Acid Alumina	MP Bio	18
5% Carbon:Silica Gel	NA	-

Extraction Table							
Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size * 1000mL norm.	Final Volume		Analysis Hold Time Expires
					20uL	Other	
G9L080621 - 1		LQQCJ1AA	12/6/2009	1043.0			1/28/2010
G9L080621 - 2		LQQCM1AA	12/6/2009	1070.7			1/28/2010
G9L090527 - 1		LQRPV1AA	1/6/2010	1039.6			1/28/2010
G9L100559 - 16		LQWFH1AA	1/8/2010	1049.4	100		1/28/2010
G9L110588 - 24		LQ0251AA	1/9/2010	1048.6	100	L	1/28/2010
G9L120491 - 9		LQ2241AA	1/10/2010	1051.7	100	BDN	1/28/2010
G9L140000 - 326	B	LQ3ME1AA	1/8/2010	1000.0			1/28/2010
G9L140000 - 326	C	LQ3ME1AC	1/8/2010	1000.0			1/28/2010

* See attached sheet for sample volumes recorded from scale

Comments/NCMs: to these samples got 10.0ul of RS L 121509

	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
Internal Standard All Samples	<u>LM0902N415</u>	<u>2/1/10</u>	<u>BS</u>	<u>[Signature]</u>	<u>12/14/09</u>
Spike Mix LCS/LCSD/MS/MS	<u>5001090N409</u>	<u>3/31/17</u>	<u>BL</u>	<u>[Signature]</u>	<u>12/14/09</u>
Cleanup Standard All Samples	<u>1.0ml 0902N410</u>	<u>12-1-10</u>	<u>L</u>	<u>T.L</u>	<u>12/5/09</u>
Recovery Standard All Samples	<u>20010902N388</u>	<u>11-19-10</u>	<u>L</u>	<u>[Signature]</u>	<u>12/15/09</u>
Liq Liq Extraction Analyst/Date	<u>BL 12/14/09</u>				
	Split/Archive Analyst/Date	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date	
	<u>---</u>	<u>---</u>	<u>12/15/09</u>	<u>---</u>	

Data Checklist
HRGCMS/LRGCMS Analyses

Batch #: 9348326 Method ID: 8290

DB-5
Data Analyst: OS
Date initiated: 12-28-09
Reviewer: Sh 1/8/10
Date reviewed: 1/8/10

DB-225
Data Analyst: OS
Date initiated: 12-28-09
Reviewer: Sh 1/8/10
Date reviewed: 1/8/10

QA/QC verification:

	<u>Initiated</u> DB-5	<u>Reviewed</u> DB-5	<u>Initiated</u> DB-225 (High Res Only)	<u>Reviewed</u> DB-225 (High Res Only)
-Daily standard package(s) present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Method Blank present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>	<input checked="" type="checkbox"/>
-LCS/DCS copy present and meets native recovery criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>	<input checked="" type="checkbox"/>
-Internal standard recoveries within limits?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Ion ratios within + 15% of theoretical values?	<input checked="" type="checkbox"/>	<u>NA</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Other QC (Dup,MS,SD) within specs?*	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>

Sample Analysis:

	<u>Initiated</u> DB-5	<u>Reviewed</u> DB-5	<u>Initiated</u> DB-225 (High Res Only)	<u>Reviewed</u> DB-225 (High Res Only)
-Correct sample aliquot used?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-All raw data present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Standard target DL's used? If RL's are used specify: _____	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-DL's below TD/L (LCL) (please circle)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-All positives reported at levels greater than method blank DL's?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Correct RRF's used for method?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Internal standard amounts correct for method?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Target analytes are not saturated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Dilution/splitting of extract taken into account?	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
-Have dilution calculations been verified?	<u>NA</u>	<u>NA</u>	<u>NA</u>	<u>NA</u>
-Has a manual calculation for the sequence(s) been verified?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Are retention times (RT) correct?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
-Manual integrations checked?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>NA</u>	<u>NA</u>

Comments: (Use other side if necessary)

* 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.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/15/09
Time: 18:17:18

LEV	LEV	LEV	LEV
1	1	2	2
Y	Y	Y	Y
Y	Y	Y	Y
-	-	-	-

Blank Check MS/MSD
Weights/Volumes
Spike & Surrogate Worksheet
Vial contains correct volume
Labels, greenbars, worksheets
computer batch: correct & all match
Anomalies to Extraction Method

Expanded Deliverable
COC Completed
Y Bench Sheet Copied
Package Submitted to Analytical Group
Bench Sheet Copied per COC

Extractionist: 403613 Brent Ginn

Concentrationist: 006625 Elizabeth Nguyen

* QC BATCH: 9348326 *
* PREP DATE: 12/14/09 11:00 *
* COMP DATE: 12/15/09 16:00 *

Reviewer/Date: NGUYENE / 12/15/09

Dioxins/Furans, HRGC/HRMS (8290)
LIQ/LIQ, SEP FUNNEL (PAH, P/P, TPH, Dioxin) - Nominal

EXPER	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT ADJ1	ADJ2	EXTRACTION VOL	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID		
12/06/09	12/28/09	G9L080621-001 LQCCJ-1-AA	D	09	IN WATER	1043.0mL 20.00uL	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS09DXN415
12/06/09	12/28/09	G9L080621-002 LQCCM-1-AA	D	09	IN WATER	1020.7mL 20.00uL	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS09DXN415
1/06/10	12/30/09	G9L090527-001 LQRPV-1-AA		09	IN WATER	1039.6mL 20.00uL	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS09DXN415
1/08/10	12/28/09	G9L100559-016 LQMFH-1-AA		09	IN WATER	1049.4mL 10.00uL	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS09DXN415
1/09/10	12/29/09	G9L110588-024 LQ225-1-AA		09	IN WATER	1048.6mL 10.00uL	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS09DXN415
1/10/10	12/30/09	G9L120491-009 LQ224-1-AA		09	IN WATER	1051.7mL 10.00uL	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS09DXN415
1/08/10	0/00/00	G9L140000-326 LQ3ME-1-AAAB		09	IN WATER	1000.0mL 20.00uL	NA	NA	DCM	300.0	C-14	20.0	1.0ML IS09DXN415

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 12/15/09
Time: 18:17:18

* QC BATCH: 9348326 *
* COMP DATE: 12/15/09 16:00 *

PREP DATE: 12/14/09 11:00
COMP DATE: 12/15/09 16:00

EXTR EXPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT MTH	MATRIX	INIT/FIN WT/VOL	PH'S ADJ1	ADJ2	EXTRACTION VOL	EXCHANGE VOL	SOLVENTS SURROGATE ID
1/08/10	0/00/00	G9L140000-326 IQ3ME-1-ACC		09	IN WATER	1000.0mL 20.00uL	NA	NA	DCM	300.0 C-14	20.0 50UL NS09DXN409 1.0ML IS09DXN415

COMMENTS:

=====

R = RUSH C = CLP
E = EPA 600 D = EXP. DEL)
M = CLIENT REQ MS/MSD 8

NUMBER OF WORK ORDERS IN BATCH:

Preparation Data Review Checklist

Prep Batch(es) 9348326

Test: 8290

Prep Date: 12/14/09

Holding Times: 12/6/09
1/10/10

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. Weights and Volumes:		
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	/
C. Standards and Reagents		
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	/
D. Documentation		
1. Are all nonconformances documented appropriately?	NA	/
2. QuantIMs entry correct, including dates and times.	NA	/
3. Are all fields completed?	NA	/

Spike witness: Whitney Marney

Date: 12/14/09

2nd Level Reviewer: SLB

Date: 12/15/09

Comments:

SOLID, D 2216-90, Percent Moisture

Northgate Environmental Management, Inc.

Client Sample ID: RSAH3-1.5BR

General Chemistry

Lot-Sample #...: G9L120491-001 Work Order #...: LQ2K5 Matrix.....: SOLID
Date Sampled...: 12/11/09 Date Received...: 12/12/09
% Moisture.....: 3.0

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	3.0	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: RSAH3-1BR

General Chemistry

Lot-Sample #...: G9L120491-002 Work Order #...: LQ2K7 Matrix.....: SOLID
Date Sampled...: 12/11/09 Date Received...: 12/12/09
% Moisture.....: 2.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	2.9	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: RSAJ2-1.5BR

General Chemistry

Lot-Sample #...: G9L120491-003 Work Order #...: LQ2K8 Matrix.....: SOLID
Date Sampled...: 12/11/09 Date Received...: 12/12/09
% Moisture.....: 5.8

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	5.9	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: RSAJ2-1BR

General Chemistry

Lot-Sample #...: G9L120491-004 Work Order #...: LQ2K9 Matrix.....: SOLID
Date Sampled...: 12/11/09 Date Received...: 12/12/09
% Moisture.....: 5.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	5.5	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: RSAK3-1.5BR

General Chemistry

Lot-Sample #....: G9L120491-005
Date Sampled....: 12/11/09
% Moisture.....: 5.4

Work Order #....: LQ2LA
Date Received...: 12/12/09

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	5.4	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: RSAK3-1BR

General Chemistry

Lot-Sample #...: G9L120491-006 Work Order #...: LQ2LC Matrix.....: SOLID
Date Sampled...: 12/11/09 Date Received...: 12/12/09
% Moisture.....: 5.3

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	5.3	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: SA75-1.5BR

General Chemistry

Lot-Sample #...: G9L120491-007 Work Order #...: LQ2LD Matrix.....: SOLID
Date Sampled...: 12/11/09 Date Received...: 12/12/09
% Moisture.....: 7.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	7.4	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

Northgate Environmental Management, Inc.

Client Sample ID: SA75-1BR

General Chemistry

Lot-Sample #...: G9L120491-008 Work Order #...: LQ2LE Matrix.....: SOLID
Date Sampled...: 12/11/09 Date Received...: 12/12/09
% Moisture.....: 5.9

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	5.9	0.10	%	ASTM D 2216-90	12/18-12/21/09	9352108

Dilution Factor: 1

QC DATA ASSOCIATION SUMMARY

G9L120491

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	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
002	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
003	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
004	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
005	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
006	SOLID	SW846 8290		9355435	9356260
	SOLID	ASTM D 2216-90		9352108	9352055
007	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
008	SOLID	SW846 8290		9362386	9362207
	SOLID	ASTM D 2216-90		9352108	9352055
009	WATER	SW846 8290		9348326	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: G9L120491

Work Order #...: LQ2K5-SMP
LQ2K5-DUP

Matrix.....: SOLID

Date Sampled...: 12/11/09

Date Received...: 12/12/09

% Moisture.....: 3.0

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	3.0	3.1	%	3.2	(0-20)	ASTM D 2216-90	SD Lot-Sample #: G9L120491-001 12/18-12/21/09	9352108

Dilution Factor: 1

SOLID, D 2216-90, Percent Moisture

% Moisture/Solid Worksheet

QCBATCH: 9352108

Analyzed by: palmoren

Report created: 12/21/09 10:35:38 AM

Lot ID	WorkOrder	Pan Tare	Sample Wet Wt	Sample Dry Wt	Wt Diff (Water)	Percent Water	Percent Solid	Reporting Limit	Foot Note	Date Time
G9L120491-1	LQ2K51AA	1.33	5.34	5.22	0.12	2.99	97.01	0.1		12/21/09 10:33:54 AM
G9L120491-1	LQ2K51AD	1.32	4.88	4.77	0.11	3.09	96.91	0.1		12/21/09 10:34:02 AM
G9L120491-2	LQ2K71AA	1.31	5.06	4.95	0.11	2.93	97.07	0.1		12/21/09 10:34:09 AM
G9L120491-3	LQ2K81AA	1.31	5.41	5.17	0.24	5.85	94.15	0.1		12/21/09 10:34:15 AM
G9L120491-4	LQ2K91AA	1.32	6.20	5.93	0.27	5.53	94.47	0.1		12/21/09 10:34:22 AM
G9L120491-5	LQ2LA1AA	1.31	6.48	6.20	0.28	5.42	94.58	0.1		12/21/09 10:34:28 AM
G9L120491-6	LQ2LC1AA	1.32	6.59	6.31	0.28	5.31	94.69	0.1		12/21/09 10:34:35 AM
G9L120491-7	LQ2LD1AA	1.32	7.01	6.59	0.42	7.38	92.62	0.1		12/21/09 10:34:41 AM
G9L120491-8	LQ2LE1AA	1.31	6.58	6.27	0.31	5.88	94.12	0.1		12/21/09 10:34:48 AM
G9L160468-4	LQ63C1AC	1.31	8.14	7.18	0.96	14.06	85.94	0.1		12/21/09 10:34:55 AM
G9L160468-5	LQ63K1AC	1.32	7.95	7.51	0.44	6.64	93.36	0.1		12/21/09 10:35:01 AM
G9L160468-6	LQ63M1AC	1.31	12.50	11.43	1.07	9.56	90.44	0.1		12/21/09 10:35:08 AM
G9L160468-7	LQ63P1AC	1.32	11.05	9.91	1.14	11.72	88.28	0.1		12/21/09 10:35:20 AM
G9L170470-1	LQ8PX1AC	1.32	12.49	10.50	1.99	17.82	82.18	0.1		12/21/09 10:35:27 AM
G9L170470-2	LQ8RD1AC	1.31	9.27	7.69	1.58	19.85	80.15	0.1		12/21/09 10:35:33 AM

All weights are in grams.
 Sample weights (wet & dry) include the weight (tare) of the sample pan.
 Wt. Diff. = sample wet weight (+ tare) - sample dry weight (+ tare).
 $\% \text{ Water} = (\text{Wt. Diff.} / (\text{sample wet weight} - \text{pan tare})) * 100$
 $\% \text{ Solid} = 100 - \text{percent Water}$