

May 4, 2010

TestAmerica Project Number: G0D130519

PO/Contract: 2027.01

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 April 13, 2010. These samples are associated with your Tronox Henderson project.

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

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

Sincerely,



DAVID R. ALLTUCKER
Project Manager

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TestAmerica West Sacramento Project Number G0D130519

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Case Narrative

TestAmerica West Sacramento Project Number GOD130519

WATER, 8290, Dioxins/Furans

Sample(s): 1, 2

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.

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

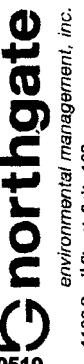
TestAmerica West Sacramento Project Number G0D130519

<u>WO#</u>	<u>Sample #</u>	<u>Client Sample ID</u>	<u>Sampling Date</u>	<u>Received Date</u>
LXWV7	1	FB-040710-RZC	4/8/2010 09:00 AM	4/13/2010 08:40 AM
LXWV8	2	EB-040710-RZC	4/8/2010 11:26 AM	4/13/2010 08:40 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.

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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.

Required Ship to Lab: Lab Name: Test America Laboratories Inc Address: 880 Riverside Parkway West Sacramento, CA 95605 Lab PM: David Allucker Phone/Fax: (916) 373-5600 Lab PM email: David.Allucker@testamericainc.com Applicable Lab Quote #: _____		Required Project Information: Site ID #102: TRONOX LLC, HENDERSON Project #: 2027.01 Site Address: 560 W Lake Mead Drive City: Henderson State, Zip: NV, 89008 Site PM Name: Derrick White Phone/Fax: (949) 375-7094 Site PM Email: derrick.white@ngem.com		Required Invoice Information: Send Invoice to: Susan Crowley Tronox LLC Address: PO Box 55 City/State: Henderson, NV 89009 Phone #: (949) 260-9293 PO #: _____ Send EDD to: Frank.Hagar@ngem.com CC Hardcopy report to: PDF Electronic Version Only - FTP Upload CC Hardcopy report to: See Additional Comments Below		Total # of Samples: -1 Event Complete?												
ITEM # EB-04072010-RZC	SAMPLE ID Samples IDs MUST BE UNIQUE	SAMPLE LOCATION SSA07-01	MATRIX CODE W	G-GRAB C-COMP G	SAMPLE TYPE EB	SAMPLE DATE 4/8/2010	SAMPLE TIME 11:26	# OF CONTAINERS 2	Comments/Lab Sample I.D. 8-hr TAT	Regular	Rush	Mark One	Temp in OC Samples on Ice?				Sample Intact?	Trip Blank?
													Y/N	Y/N	Y/N	Y/N		
Additional Comments/Special Instructions:													4/8/10 1907	Y/N	Y/N	Y/N	Y/N	
Signature of Sampler: <i>[Signature]</i> DATE SIGNED: 4/8/10													4/8/10 1245	Y/N	Y/N	Y/N	Y/N	
Signature of Sampler: <i>[Signature]</i> DATE SIGNED: 4/8/10													4/8/10 1805	Y/N	Y/N	Y/N	Y/N	
Signature of Sampler: <i>[Signature]</i> DATE SIGNED: 4/8/10													4/8/10 1915	Y/N	Y/N	Y/N	Y/N	

CLIENT Northgate PM DA LOG # 64216

LOT# (QUANTIMS ID) 90D130519 QUOTE# 84087 LOCATION W25A

DATE RECEIVED 4/13/10 TIME RECEIVED 0840 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) 662611, Seal

SHIPPING CONTAINER(S) TAL CLIENT N/A

COC #(S) 02027.01.1905

TEMPERATURE BLANK Observed: NA Corrected: _____

SAMPLE TEMPERATURE - (TEMPERATURES ARE IN °C)

Observed: 3.3 Average 3 Corrected Average 3
Observed: 2.32 Average 2 Corrected Average 2

LABORATORY THERMOMETER ID:

IR UNIT: #4 #5 OTHER _____

ev 4/13/10
Initials Date

pH MEASURED YES ANOMALY N/A

LABELED BY.....

LABELS CHECKED BY.....

PEER REVIEW _____ NA

SHORT HOLD TEST NOTIFICATION SAMPLE RECEIVING

WETCHEM N/A

VOA-ENCORES N/A

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

COMPLETE SHIPMENT RECEIVED IN GOOD CONDITION WITH N/A
APPROPRIATE TEMPERATURES, CONTAINERS, PRESERVATIVES

CLOUSEAU TEMPERATURE EXCEEDED (2 °C – 6 °C)^{*1} N/A

WET ICE BLUE ICE GEL PACK NO COOLING AGENTS USED PM NOTIFIED

ev 4/13/10
Initials Date

Notes _____

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

Lot ID: G0D130519

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

WATER, 8290, Dioxins/Furans

Northgate Environmental Management, Inc.

Sample ID: FB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 001	Work Order #....:	LXWV71AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Instrument ID....:	4D5
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Dilution Factor....:	0.97	Units.....:	pg/L
Initial Wgt/Vol :	1033.5 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT	REPORTING LIMIT	TEF FACTOR	TEQ CONCENTRATION
2,3,7,8-TCDD	ND	4.9	1.0	0
1,2,3,7,8-PeCDD	ND	24	1.0	0
1,2,3,4,7,8-HxCDD	0.77 J	24	0.1	0.077
1,2,3,6,7,8-HxCDD	0.74 J Q	24	0.1	0.074
1,2,3,7,8,9-HxCDD	0.82 J B	24	0.1	0.082
1,2,3,4,6,7,8-HpCDD	4.2 J Q B	24	0.01	0.042
OCDD	37 J B	49	0.0003	0.011
2,3,7,8-TCDF	0.57 J Q	4.9	0.1	0.057
1,2,3,7,8-PeCDF	0.96 J	24	0.03	0.029
2,3,4,7,8-PeCDF	0.67 J Q B	24	0.3	0.20
1,2,3,4,7,8-HxCDF	1.1 J Q B	24	0.1	0.11
1,2,3,6,7,8-HxCDF	0.96 J B	24	0.1	0.096
2,3,4,6,7,8-HxCDF	1.0 J Q B	24	0.1	0.10
1,2,3,7,8,9-HxCDF	1.0 J Q	24	0.1	0.10
1,2,3,4,6,7,8-HpCDF	2.1 J B	24	0.01	0.021
1,2,3,4,7,8,9-HpCDF	1.5 J B	24	0.01	0.015
OCDF	6.7 J	49	0.0003	0.0020
Total TEQ Concentration				1.0

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	78	40 - 135
13C-1,2,3,7,8-PeCDD	82	40 - 135
13C-1,2,3,6,7,8-HxCDD	85	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	87	40 - 135
13C-OCDD	83	40 - 135
13C-2,3,7,8-TCDF	66	40 - 135
13C-1,2,3,7,8-PeCDF	74	40 - 135
13C-1,2,3,4,7,8-HxCDF	76	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	78	40 - 135

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: FB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 001	Work Order #....:	LXWV71AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Instrument ID....:	4D5
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Dilution Factor....:	0.97	Units.....:	pg/L
Initial Wgt/Vol :	1033.5 mL	Analyst ID....:	Grandfield S. Virginia		

Notes:

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

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

Northgate Environmental Management, Inc.

Sample ID: FB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 001	Work Order #....:	LXWV71AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Dilution Factor:	0.97
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Instrument ID....:	4D5		
Initial Wgt/Vol :	1033.5 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT		REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	ND		4.9	0.35	pg/L
1,2,3,7,8-PeCDD	ND		24	0.45	pg/L
1,2,3,4,7,8-HxCDD	0.77	J	24	0.40	pg/L
1,2,3,6,7,8-HxCDD	0.74	J Q	24	0.36	pg/L
1,2,3,7,8,9-HxCDD	0.82	J B	24	0.33	pg/L
1,2,3,4,6,7,8-HpCDD	4.2	J Q B	24	0.39	pg/L
OCDD	37	J B	49	0.82	pg/L
2,3,7,8-TCDF	0.57	J Q	4.9	0.36	pg/L
1,2,3,7,8-PeCDF	0.96	J	24	0.32	pg/L
2,3,4,7,8-PeCDF	0.67	J Q B	24	0.34	pg/L
1,2,3,4,7,8-HxCDF	1.1	J Q B	24	0.28	pg/L
1,2,3,6,7,8-HxCDF	0.96	J B	24	0.25	pg/L
2,3,4,6,7,8-HxCDF	1.0	J Q B	24	0.28	pg/L
1,2,3,7,8,9-HxCDF	1.0	J Q	24	0.31	pg/L
1,2,3,4,6,7,8-HpCDF	2.1	J B	24	0.26	pg/L
1,2,3,4,7,8,9-HpCDF	1.5	J B	24	0.34	pg/L
OCDF	6.7	J	49	0.59	pg/L

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	78	40 - 135
13C-1,2,3,7,8-PeCDD	82	40 - 135
13C-1,2,3,6,7,8-HxCDD	85	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	87	40 - 135
13C-OCDD	83	40 - 135
13C-2,3,7,8-TCDF	66	40 - 135
13C-1,2,3,7,8-PeCDF	74	40 - 135
13C-1,2,3,4,7,8-HxCDF	76	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	78	40 - 135

QUALIFIERS

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

Northgate Environmental Management, Inc.

Sample ID: EB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....: GOD130519 - 002
Date Sampled....: 04/08/10
Prep Date....: 04/19/10
Prep Batch #: 0123308
Initial Wgt/Vol : 1033.8 mL

Work Order #....: LXWV81AA **Matrix....:** WATER
Date Received....: 04/13/10 **Instrument ID....:** 4D5
Analysis Date....: 05/01/10
Dilution Factor....: 0.97 **Units.....:** pg/L
Analyst ID....: Grandfield S. Virginia

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>TEF FACTOR</u>	<u>TEQ CONCENTRATION</u>
2,3,7,8-TCDD	1.0	4.9	1.0	1.0
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	0.69 J Q	24	0.1	0.069
1,2,3,7,8,9-HxCDD	0.65 J Q B	24	0.1	0.065
1,2,3,4,6,7,8-HpCDD	5.5 J B	24	0.01	0.055
OCDD	53 B	49	0.0003	0.016
2,3,7,8-TCDF	2.6 J	4.9	0.1	0.26
1,2,3,7,8-PeCDF	1.5 J	24	0.03	0.045
2,3,4,7,8-PeCDF	1.0 J Q B	24	0.3	0.30
1,2,3,4,7,8-HxCDF	1.8 J Q B	24	0.1	0.18
1,2,3,6,7,8-HxCDF	1.1 J Q B	24	0.1	0.11
2,3,4,6,7,8-HxCDF	0.97 J Q B	24	0.1	0.097
1,2,3,7,8,9-HxCDF	ND	24	0.1	0
1,2,3,4,6,7,8-HpCDF	4.5 J B	24	0.01	0.045
1,2,3,4,7,8,9-HpCDF	1.1 J Q B	24	0.01	0.011
OCDF	12 J	49	0.0003	0.0036
Total TEQ Concentration				2.3

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	68	40 - 135
13C-1,2,3,7,8-PeCDD	70	40 - 135
13C-1,2,3,6,7,8-HxCDD	72	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	75	40 - 135
13C-OCDD	71	40 - 135
13C-2,3,7,8-TCDF	59	40 - 135
13C-1,2,3,7,8-PeCDF	63	40 - 135
13C-1,2,3,4,7,8-HxCDF	65	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	67	40 - 135

QUALIFIERS

Northgate Environmental Management, Inc.

Sample ID: EB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 002	Work Order #....:	LXWV81AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Instrument ID....:	4D5
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Dilution Factor....:	0.97	Units....:	pg/L
Initial Wgt/Vol :	1033.8 mL	Analyst ID....:	Grandfield S. Virginia		

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.
- D Result was obtained from the analysis of a dilution.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

Northgate Environmental Management, Inc.

Sample ID: EB-040710-RZC

Trace Level Organic Compounds

SW846 8290

Lot - Sample #....:	G0D130519 - 002	Work Order #....:	LXWV81AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Dilution Factor:	0.97
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Instrument ID....:	4D5		
Initial Wgt/Vol :	1033.8 mL	Analyst ID....:	Grandfield S. Virginia		

PARAMETER	RESULT	REPORTING LIMIT	ESTIMATED DETECTION LIMIT	UNITS
2,3,7,8-TCDD	1.0 D	4.9	0.39	pg/L
1,2,3,7,8-PeCDD	ND	24	0.48	pg/L
1,2,3,4,7,8-HxCDD	ND	24	0.36	pg/L
1,2,3,6,7,8-HxCDD	0.69 J Q	24	0.25	pg/L
1,2,3,7,8,9-HxCDD	0.65 J Q B	24	0.23	pg/L
1,2,3,4,6,7,8-HpCDD	5.5 J B	24	0.36	pg/L
OCDD	53 B	49	0.39	pg/L
2,3,7,8-TCDF	2.6 J	4.9	0.33	pg/L
1,2,3,7,8-PeCDF	1.5 J	24	0.36	pg/L
2,3,4,7,8-PeCDF	1.0 J Q B	24	0.39	pg/L
1,2,3,4,7,8-HxCDF	1.8 J Q B	24	0.42	pg/L
1,2,3,6,7,8-HxCDF	1.1 J Q B	24	0.38	pg/L
2,3,4,6,7,8-HxCDF	0.97 J Q B	24	0.42	pg/L
1,2,3,7,8,9-HxCDF	ND	24	0.47	pg/L
1,2,3,4,6,7,8-HpCDF	4.5 J B	24	0.49	pg/L
1,2,3,4,7,8,9-HpCDF	1.1 J Q B	24	0.63	pg/L
OCDF	12 J	49	0.52	pg/L

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	68	40 - 135
13C-1,2,3,7,8-PeCDD	70	40 - 135
13C-1,2,3,6,7,8-HxCDD	72	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	75	40 - 135
13C-OCDD	71	40 - 135
13C-2,3,7,8-TCDF	59	40 - 135
13C-1,2,3,7,8-PeCDF	63	40 - 135
13C-1,2,3,4,7,8-HxCDF	65	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	67	40 - 135

QUALIFIERS

- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.
- D Result was obtained from the analysis of a dilution.
- J Estimated Result.
- Q Estimated maximum possible concentration (EMPC).

QC DATA ASSOCIATION SUMMARY

G0D130519

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	WATER	SW846 8290		0123308	
002	WATER	SW846 8290		0123308	

Method Blank Report
Trace Level Organic Compounds
SW846 8290

Lot - Sample #....:	G0E030000 - 308B	Work Order #....:	L0W8G1AA	Matrix....:	WATER
Date Sampled....:	04/08/10	Date Received....:	04/13/10	Dilution Factor:	1
Prep Date....:	04/19/10	Analysis Date....:	05/01/10		
Prep Batch #:	0123308	Instrument ID....:	4D5		
Initial Wgt/Vol :	1000 mL	Analyst ID....:	Grandfield S. Virginia		

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>ESTIMATED DETECTION LIMIT</u>	<u>UNITS</u>
2,3,7,8-TCDD	ND	10	0.57	pg/L
1,2,3,7,8-PeCDD	ND	50	0.81	pg/L
1,2,3,4,7,8-HxCDD	ND	50	0.55	pg/L
1,2,3,6,7,8-HxCDD	ND	50	0.50	pg/L
1,2,3,7,8,9-HxCDD	0.88 J	50	0.46	pg/L
1,2,3,4,6,7,8-HpCDD	1.6 J	50	0.50	pg/L
OCDD	2.6 J Q	100	0.94	pg/L
2,3,7,8-TCDF	ND	10	0.61	pg/L
1,2,3,7,8-PeCDF	ND	50	0.51	pg/L
2,3,4,7,8-PeCDF	0.94 J Q	50	0.54	pg/L
1,2,3,4,7,8-HxCDF	0.89 J Q	50	0.44	pg/L
1,2,3,6,7,8-HxCDF	0.50 J Q	50	0.40	pg/L
2,3,4,6,7,8-HxCDF	1.1 J	50	0.43	pg/L
1,2,3,7,8,9-HxCDF	ND	50	0.49	pg/L
1,2,3,4,6,7,8-HpCDF	0.93 J Q	50	0.61	pg/L
1,2,3,4,7,8,9-HpCDF	0.98 J Q	50	0.78	pg/L
OCDF	ND	100	0.89	pg/L

<u>INTERNAL STANDARDS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	81	40 - 135
13C-1,2,3,7,8-PeCDD	85	40 - 135
13C-1,2,3,6,7,8-HxCDD	89	40 - 135
13C-1,2,3,4,6,7,8-HpCDD	90	40 - 135
13C-OCDD	88	40 - 135
13C-2,3,7,8-TCDF	68	40 - 135
13C-1,2,3,7,8-PeCDF	74	40 - 135
13C-1,2,3,4,7,8-HxCDF	71	40 - 135
13C-1,2,3,4,6,7,8-HpCDF	79	40 - 135

QUALIFIERS

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

LABORATORY CONTROL SAMPLE DATA REPORT

Trace Level Organic Compounds

Client Lot # ...:	G0D130519	Work Order # ...:	L0W8G1AC-LCS	Matrix	WATER
LCS Lot-Sample# :	G0E030000 - 308				
Prep Date	04/19/10	Analysis Date ..:	05/01/10		
Prep Batch # ...:	0123308				
Dilution Factor :	1				
Analyst ID.....:	Grandfield S. Virginia	Instrument ID...:	4D5	Method.....:	SW846 8290
Initial Wgt/Vol:	1000 mL				

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,3,7,8-TCDD	200	168	pg/L	84	(64 - 142)
1,2,3,7,8-PeCDD	1000	864	pg/L	86	(71 - 140)
1,2,3,4,7,8-HxCDD	1000	769	pg/L	77	(56 - 146)
1,2,3,6,7,8-HxCDD	1000	894	pg/L	89	(73 - 144)
1,2,3,7,8,9-HxCDD	1000	819	pg/L	82	(71 - 151)
1,2,3,4,6,7,8-HpCDD	1000	873	pg/L	87	(78 - 139)
OCDD	2000	1800	pg/L	90	(80 - 132)
2,3,7,8-TCDF	200	181	pg/L	91	(71 - 142)
1,2,3,7,8-PeCDF	1000	904	pg/L	90	(76 - 135)
2,3,4,7,8-PeCDF	1000	946	pg/L	95	(74 - 137)
1,2,3,4,7,8-HxCDF	1000	953	pg/L	95	(75 - 131)
1,2,3,6,7,8-HxCDF	1000	956	pg/L	96	(76 - 133)
2,3,4,6,7,8-HxCDF	1000	1000	pg/L	100	(80 - 137)
1,2,3,7,8,9-HxCDF	1000	961	pg/L	96	(77 - 142)
1,2,3,4,6,7,8-HpCDF	1000	894	pg/L	89	(79 - 133)
1,2,3,4,7,8,9-HpCDF	1000	930	pg/L	93	(83 - 130)
OCDF	2000	1770	pg/L	89	(72 - 140)

<u>INTERNAL STANDARD</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
13C-2,3,7,8-TCDD	88	(40 - 135)
13C-1,2,3,7,8-PeCDD	95	(40 - 135)
13C-1,2,3,6,7,8-HxCDD	104	(40 - 135)
13C-1,2,3,4,6,7,8-HpCDD	100	(40 - 135)
13C-OCDD	100	(40 - 135)
13C-2,3,7,8-TCDF	76	(40 - 135)
13C-1,2,3,7,8-PeCDF	84	(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)

Notes:

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

Bold print denotes control parameters

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

Quantitation Summary

TestAmerica West Sacramento

= LOWBGIAA V# 5.3.12

Run text: LX3LQ-1-AA Sample text: LX3LQ-1-AA :GOD160000-253B
Run #7 Filename: 01MY104D5 S: 4 I: 1 Results: 01my104d58290a
Acquired: 1-MAY-10 11:00:25 Processed: 2-MAY-10 09:21:45
Run: 01MY104D5 Analyte: 8290A Cal: 8290A0412104D5
Factor 1: 1600.000 Factor 2: 20.000 Sample size: 1.00 L

Table with columns: Name, Resp, RA, RT, RRF, Conc, EDL, Rec, M. Contains multiple rows of chemical analysis data with handwritten annotations like 'noise', 'DL', 'SQ', 'Y', 'YD'.

OCDD

62879 1.50 n 37:55 1.17

2.60 SQ

0.94

- n

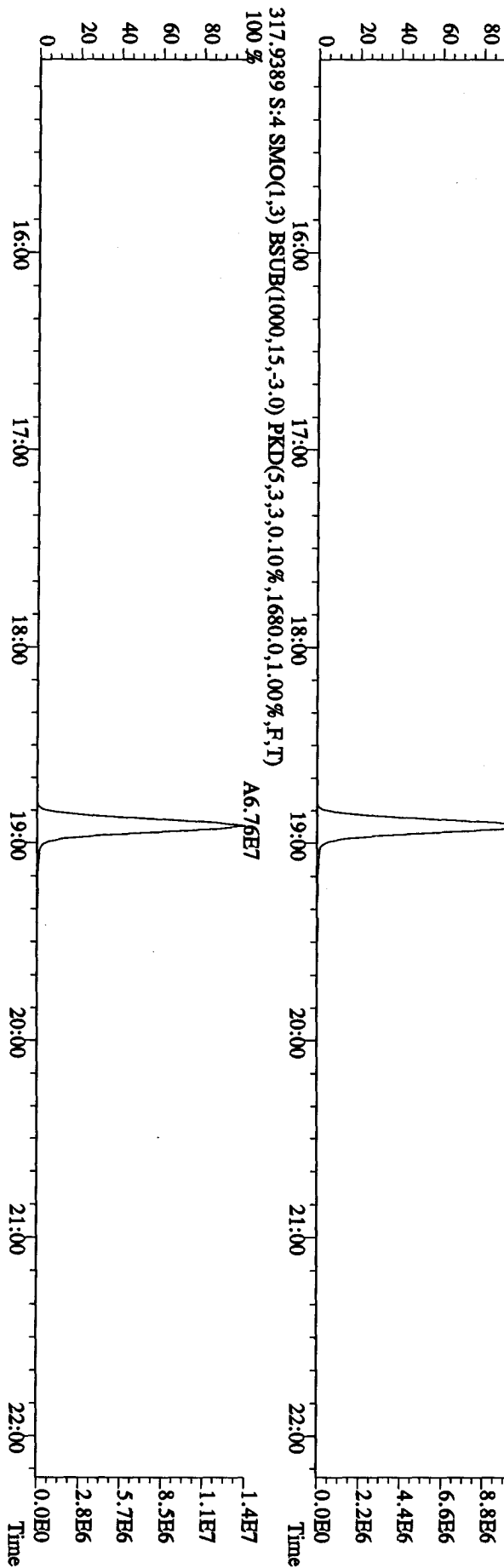
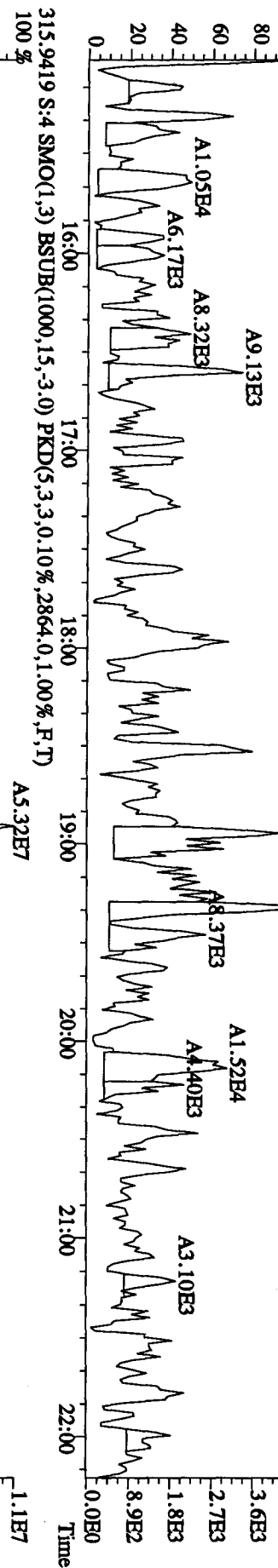
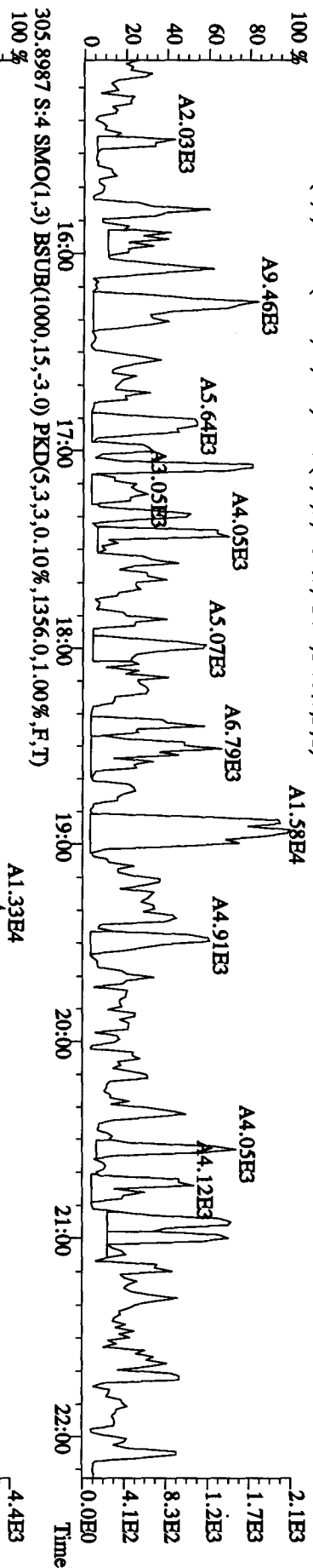
=LOW 8 G IAA

Run text: LX3LQ-1-AA Sample text: LX3LQ-1-AA :G0D160000-253B
 Run #7 Filename: 01MY104D5 S: 4 I: 1 Results: 01MY104D58290A
 Acquired: 1-MAY-10 11:00:25 Processed: 2-MAY-10 09:21:45
 Run: 01MY104D5 Analyte: 8290A Cal: 8290A0412104D5
 Sample size: 1.00 L

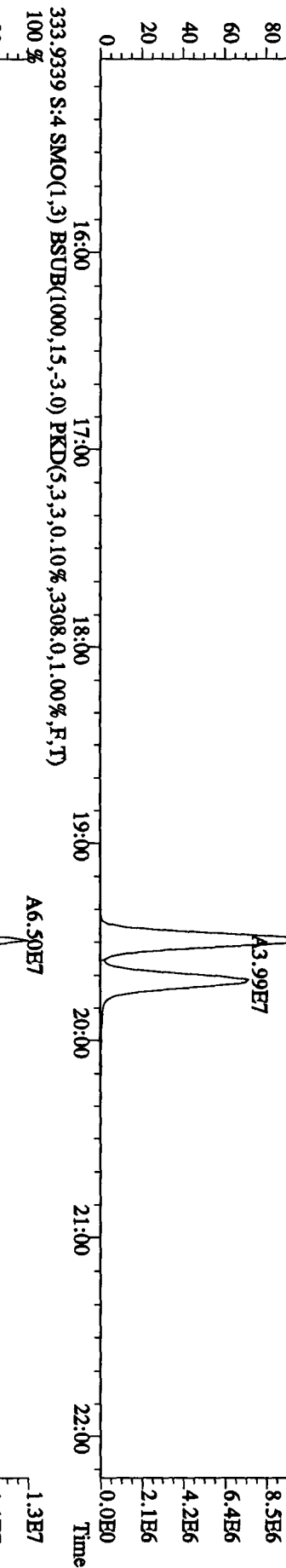
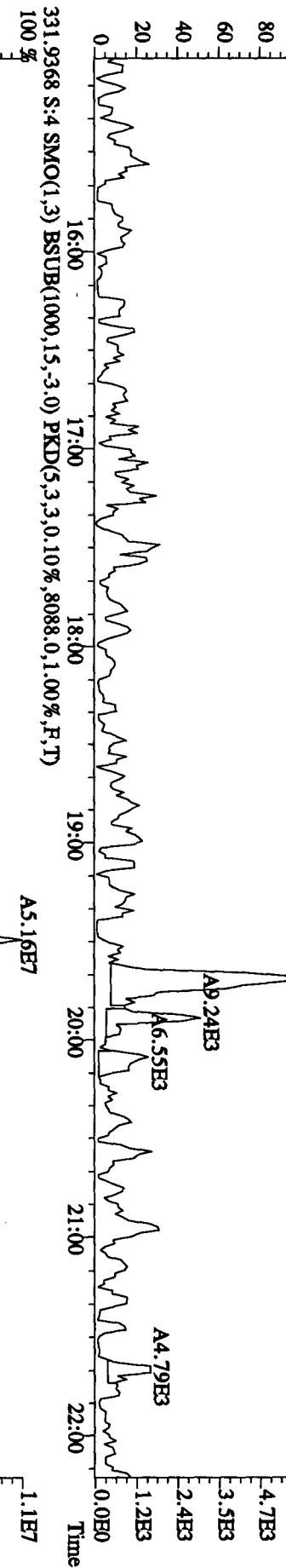
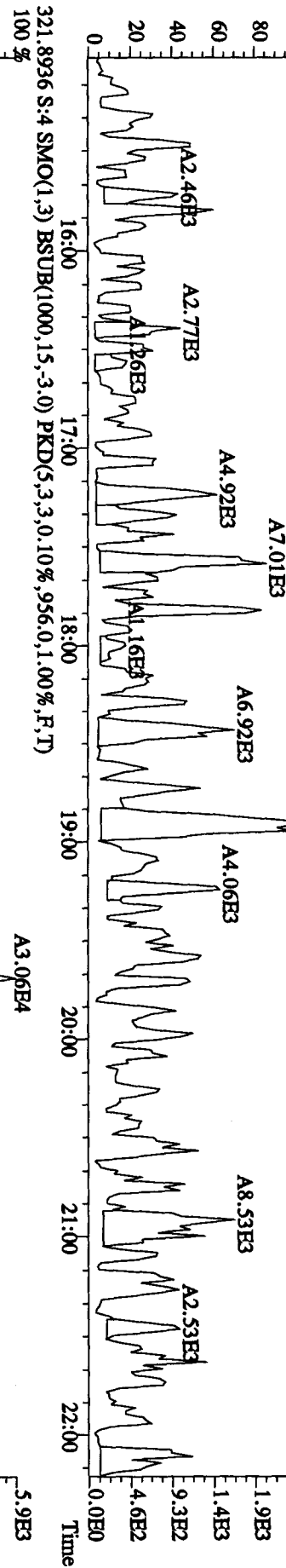
Isomers EDLs

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	116545100	0.79 y	19:29	-	87.6021	-	-	n
13C-2,3,7,8-TCDF	120751700	0.79 y	18:55	1.52	1362.6205	0.7467	68.1	n
2,3,7,8-TCDF	34912	0.83 y	18:56	0.95	0.6117 DL	0.5000	-	n
Total TCDF	56930	0.31 n	15:26	0.95	0.9975	0.5000	-	n
13C-2,3,7,8-TCDD	89513800	0.80 y	19:41	0.95	1617.5034	2.9988	80.9	n
2,3,7,8-TCDD	*	* n	NotFnd	1.02	*	0.5723	-	n
Total TCDD	*	* n	NotFnd	1.02	*	0.5723	-	n
37Cl-2,3,7,8-TCDD	95963600	1.00 y	19:42	2.26	728.2567	0.1291	91.0	n
13C-1,2,3,7,8-PeCDF	91008400	1.59 y	24:34	1.05	1486.9412	1.0250	74.3	n
1,2,3,7,8-PeCDF	22409	2.68 n	24:36	1.04	0.4714	0.5075	-	n
2,3,4,7,8-PeCDF	41869	1.19 n	26:06	0.98	0.9368 JA	0.5398	-	n
Total F2 PeCDF	170722	0.89 n	24:25	1.01	3.7183	0.5232	-	n
Total F1 PeCDF	46310	0.31 n	20:41	1.01	1.0042	0.5215	-	n
13C-1,2,3,7,8-PeCDD	66024200	1.55 y	26:52	0.67	1689.8998	0.6217	84.5	n
1,2,3,7,8-PeCDD	6038	2.21 n	26:53	0.98	0.1863	0.8099	-	n
Total PeCDD	73185	1.37 y	23:15	0.98	2.2577	0.8099	-	n
13C-1,2,3,7,8,9-HxCDD	88355300	1.27 y	33:05	-	85.9846	-	-	n
13C-1,2,3,4,7,8-HxCDF	64299000	0.52 y	31:54	1.02	1420.1563	0.7507	71.0	n
1,2,3,4,7,8-HxCDF	34665	1.51 n	31:54	1.21	0.8892 JA	0.4380	-	n
1,2,3,6,7,8-HxCDF	21616	0.99 n	32:02	1.34	0.5007 JA	0.3955	-	n
2,3,4,6,7,8-HxCDF	42008	1.17 y	32:37	1.22	1.0690 JA	0.4345	-	n
1,2,3,7,8,9-HxCDF	57738	1.32 y	33:19	1.09	1.6439 JA	0.4861	-	n
Total HxCDF	242846	2.01 n	30:22	1.22	6.3208	0.4362	-	n
13C-1,2,3,6,7,8-HxCDD	63789100	1.28 y	32:48	0.81	1789.0971	0.0904	89.5	n
1,2,3,4,7,8-HxCDD	13701	1.67 n	32:44	1.01	0.4267	0.5484	-	n
1,2,3,6,7,8-HxCDD	14545	1.12 y	32:51	1.11	0.4094	0.4956	-	n
1,2,3,7,8,9-HxCDD	33753	1.29 y	33:04	1.21	0.8753 J	0.4566	-	n
Total HxCDD	82182	1.08 y	31:23	1.11	2.2815	0.4974	-	n
13C-1,2,3,4,6,7,8-HpCDF	60239400	0.43 y	34:35	0.86	1580.7877	6.2212	79.0	n
1,2,3,4,6,7,8-HpCDF	36625	1.28 n	34:35	1.31	0.9285 JA	0.6138	-	n
1,2,3,4,7,8,9-HpCDF	30234	0.73 n	35:44	1.03	0.9787 JA	0.7838	-	n
Total HpCDF	83380	1.28 n	34:35	1.17	2.3769	0.6884	-	n
13C-1,2,3,4,6,7,8-HpCDD	55502900	1.02 y	35:24	0.70	1801.2419	2.7190	90.1	n
1,2,3,4,6,7,8-HpCDD	49029	0.99 y	35:25	1.07	1.6483 J	0.5020	-	n
Total HpCDD	110312	3.58 n	34:35	1.07	3.7085	0.5020	-	n
13C-OCDD	82896000	0.92 y	37:54	0.53	3531.1823	0.1531	88.3	n
OCDF	22450	0.37 n	38:02	1.45	0.7495	0.8885	-	n
OCDD	62879	1.51 n	37:55	1.17	2.6016 JA	0.9434	-	n

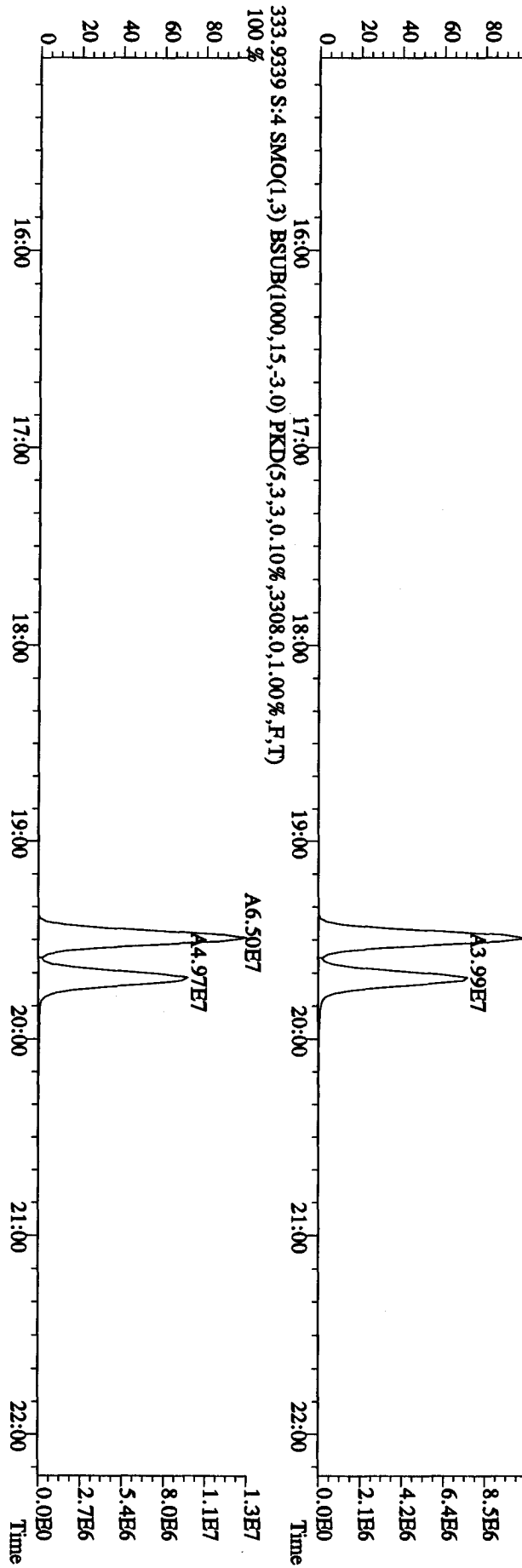
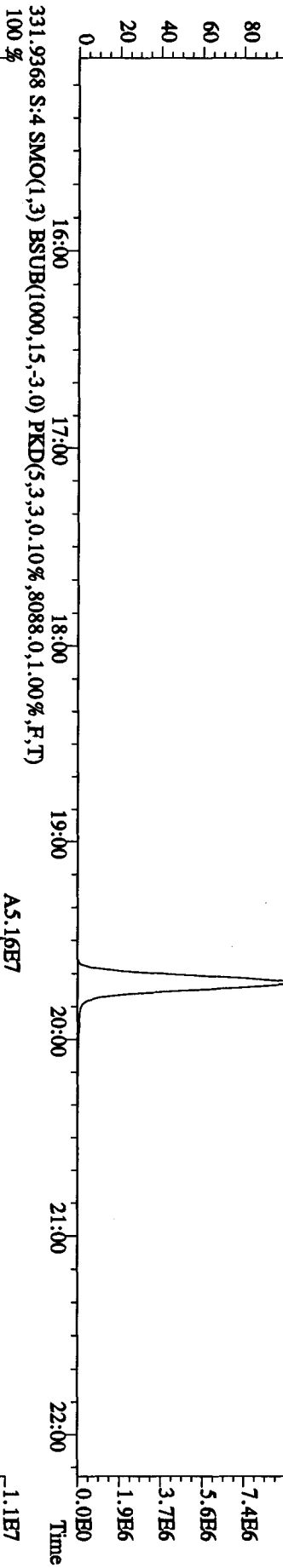
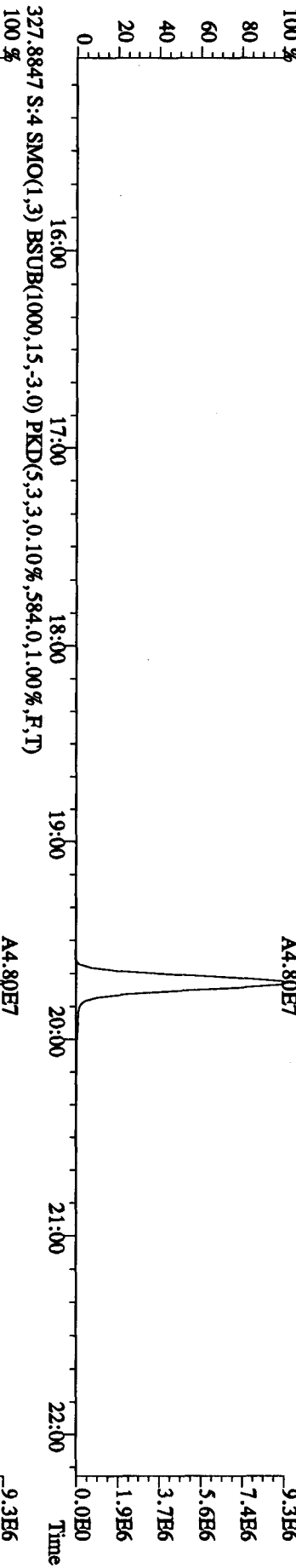
File:01MAY104D5 #1-434 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:LX31Q-1-AA :G0DD160000-253B Exp:DIOXINRES8290A
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,624.0,1.00%,F,T)



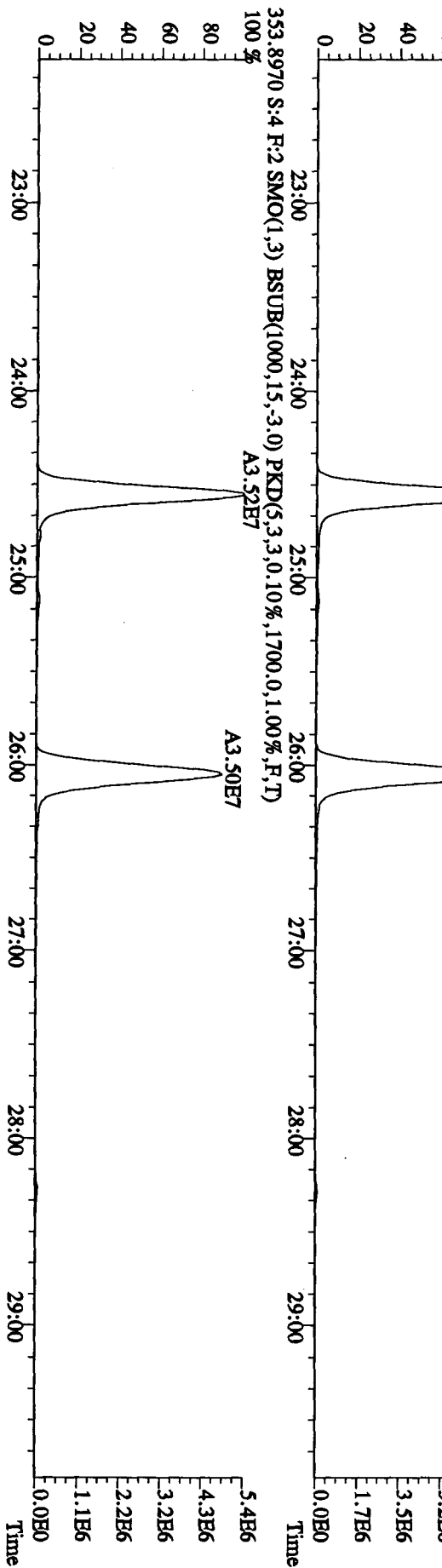
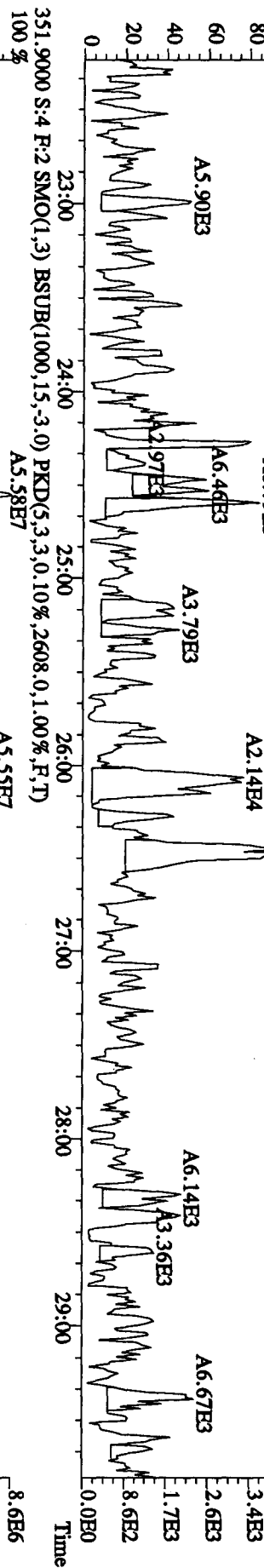
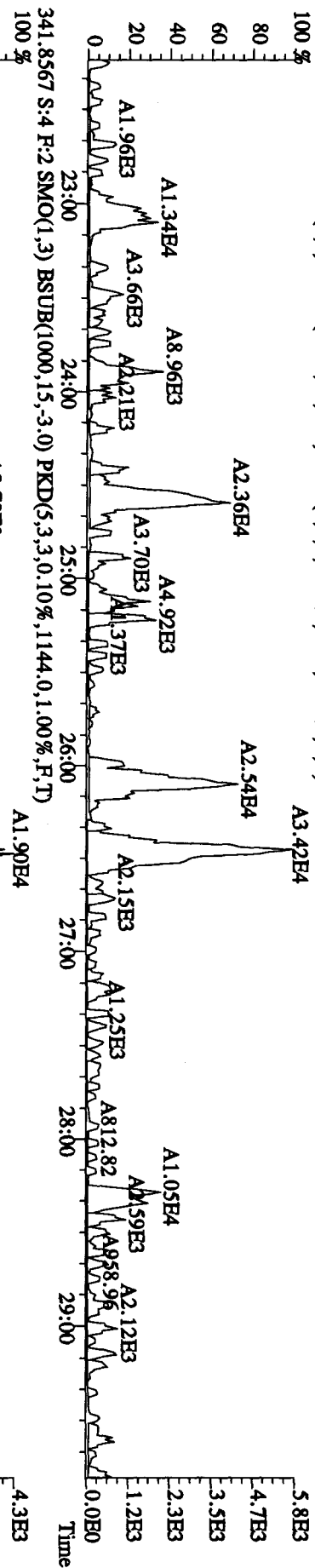
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 Sample#4 Text: LX3LQ-1-AA :G0D160000-253B Exp: DIOXINRES8290A
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,716.0,1.00%,F,T)



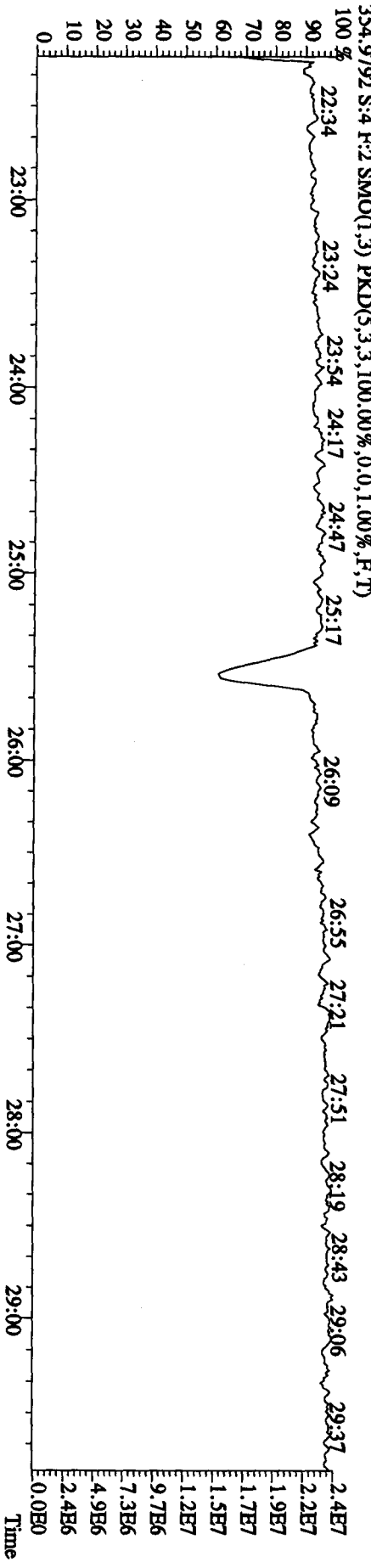
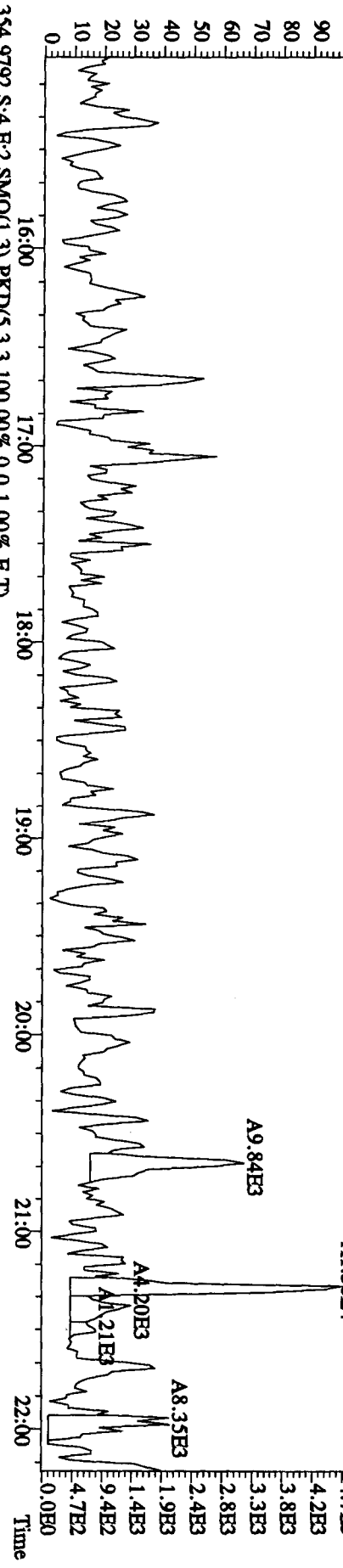
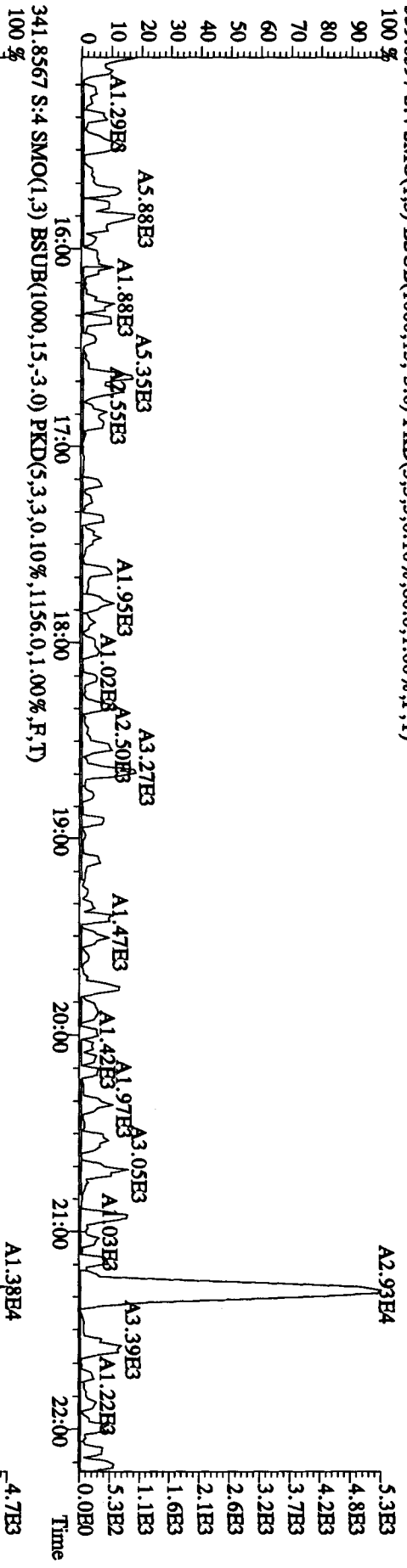
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 Sample#4 Text:LX3LO-1-AA :GDD160000-253B Exp:DIOXINRES8290A
 327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,584,0,1,1.00%,F,T)



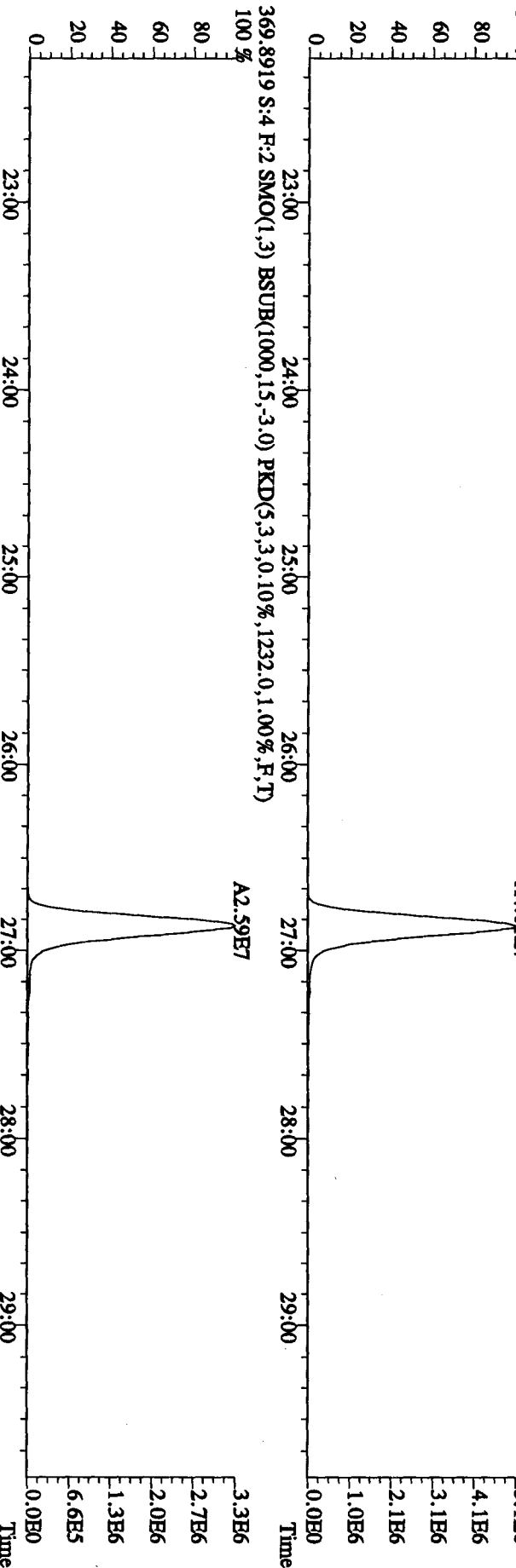
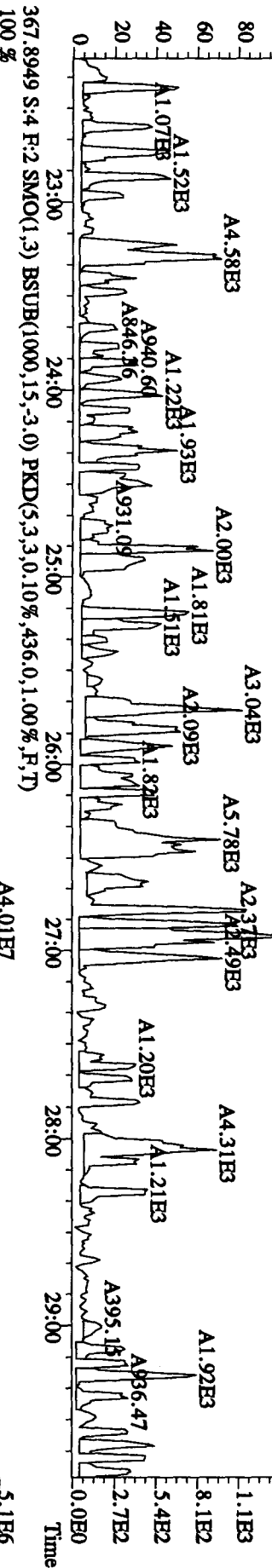
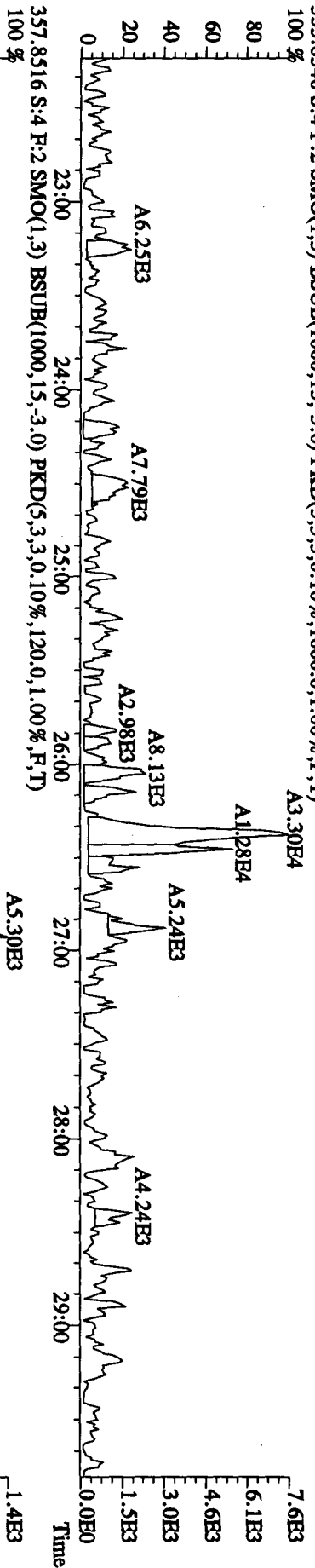
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 Sample#4 Text:LX3LQ-1-AA :G0D160000-253B Exp.:DIOXINRES8290A
 339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,96,0,1,00%,F,T) 100%



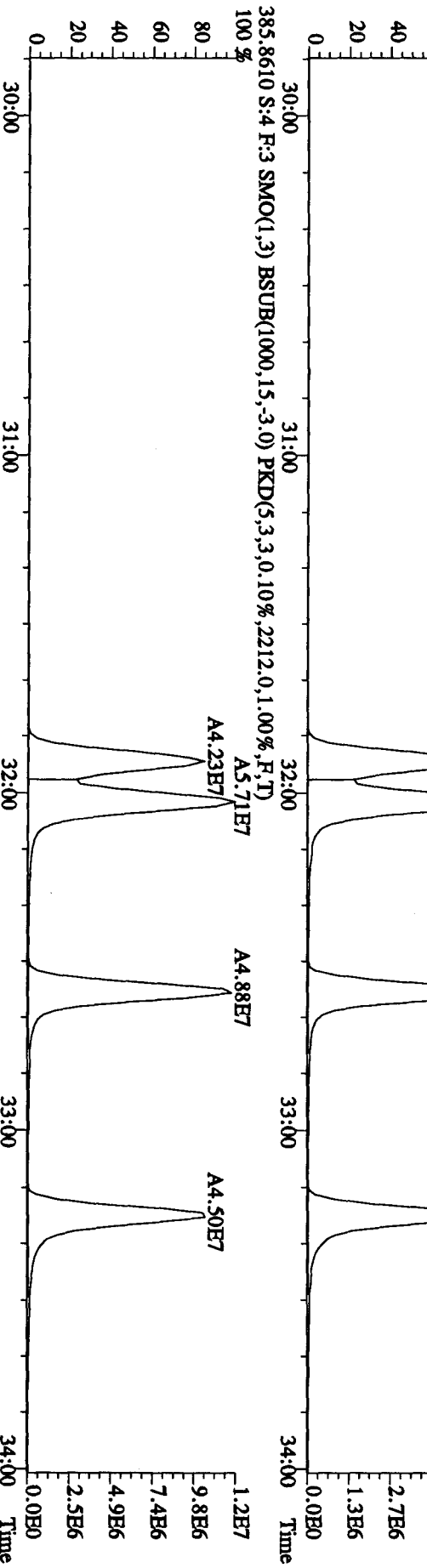
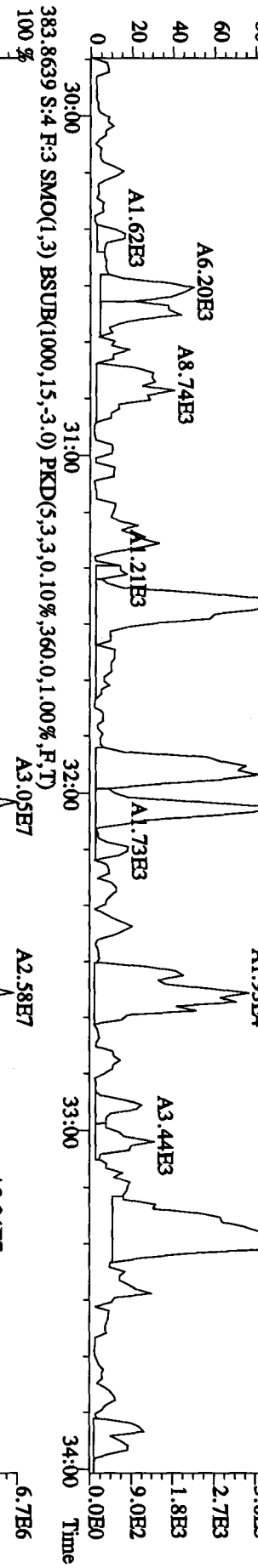
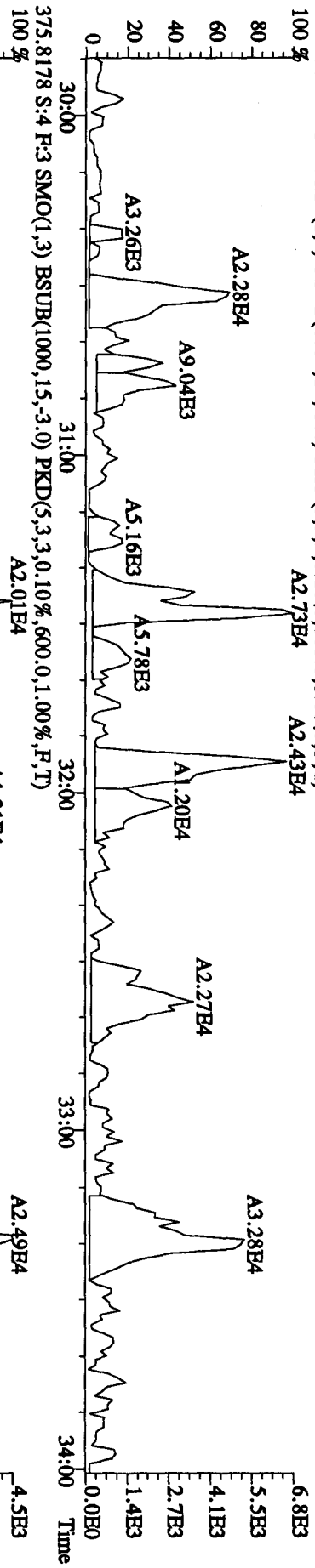
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 Sample#4 Text:LXLO-1-AA :GOD160000-253B Exp:DIOXINRES8290A
 339,8597 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,80,0,1,00%,F,T)



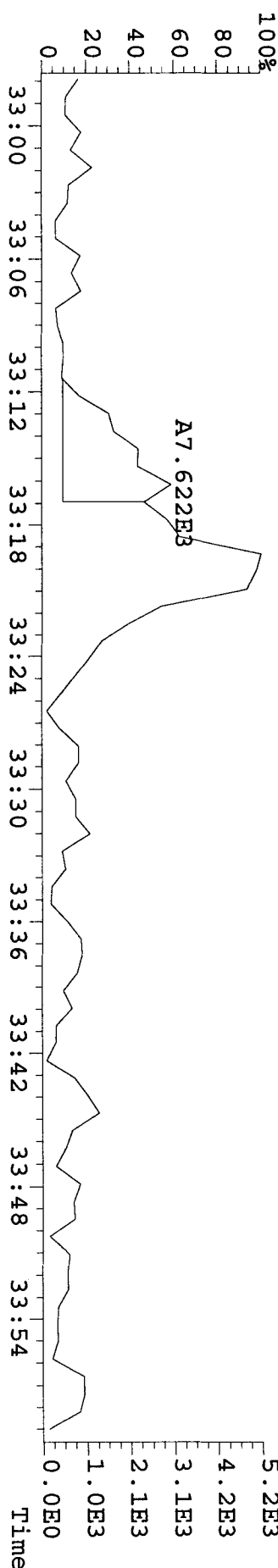
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 Sample#4 Text:LX3LQ-1-AA :GOD160000-253B Exp:DIOXINRES8290A
 355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1000.0,1.00%,F,T)



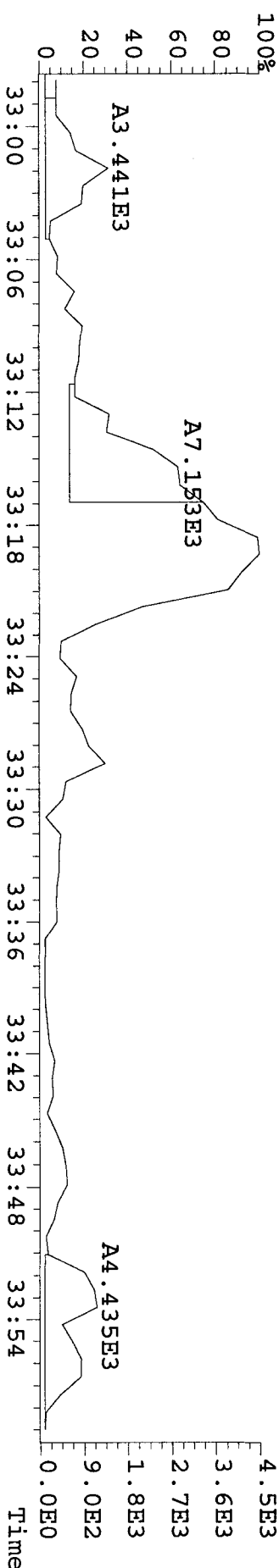
File:01MAY104D5 #1-317 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:LX3LO-1-AA :G0D160000-253B Exp:DIOXINRES8290A
 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,808,0,1,00%,F,T)
 100 % A2.73E4 A2.43E4



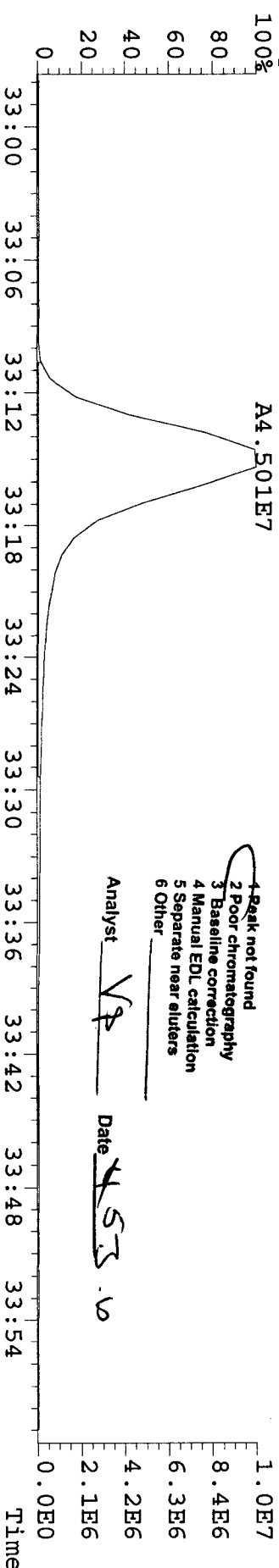
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 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T) Exp:DIOXINRES829>
 Sample Text:LX31Q-1-AA :GOD160000-253B



File: 01MY104D5 #1-317 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
 375.8178 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,600.0,1.00%,F,T) Exp:DIOXINRES829>
 Sample Text:LX31Q-1-AA :GOD160000-253B



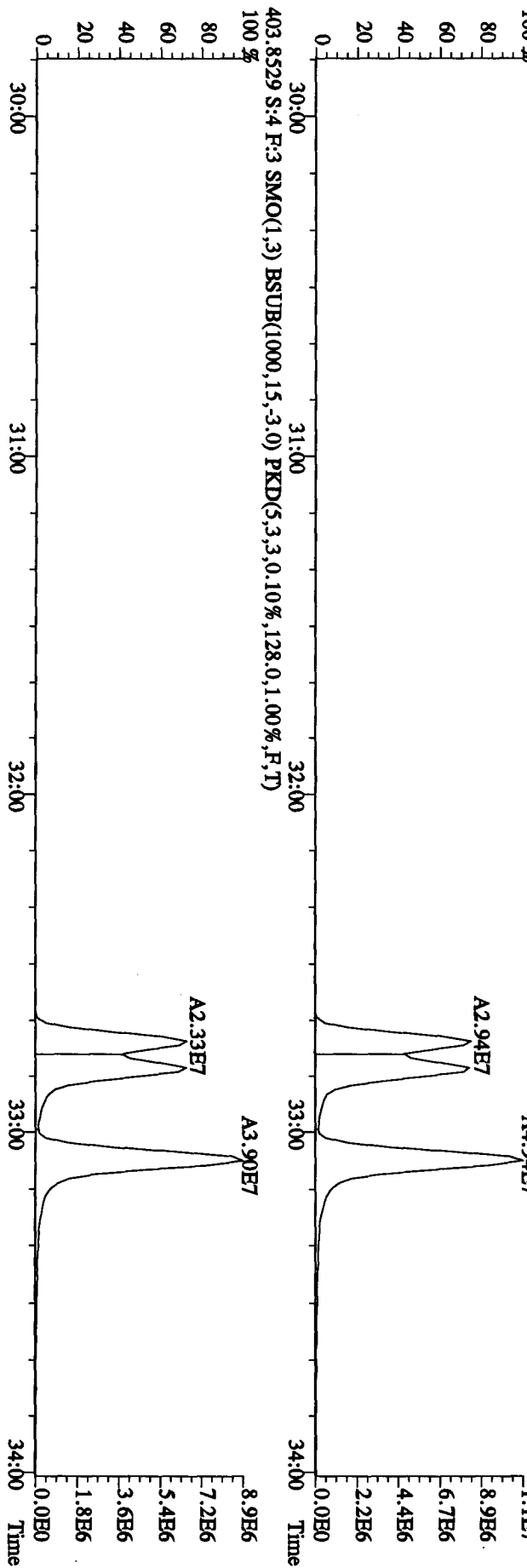
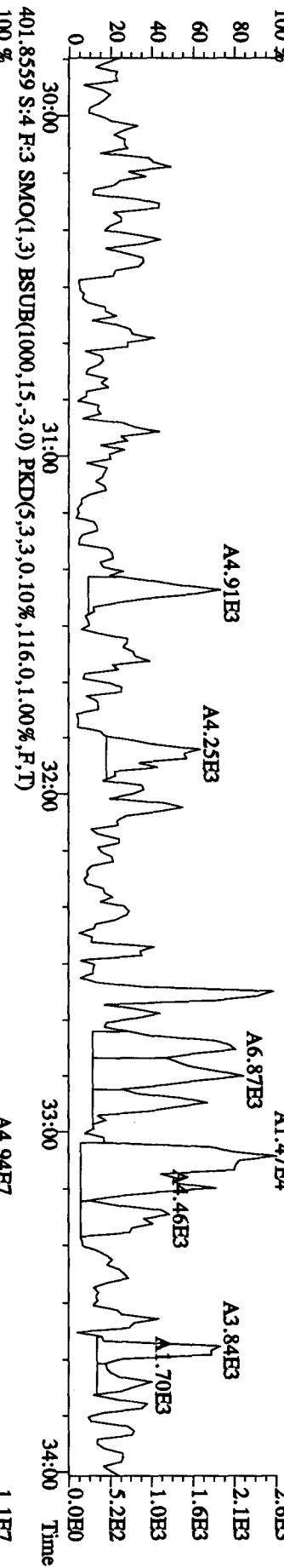
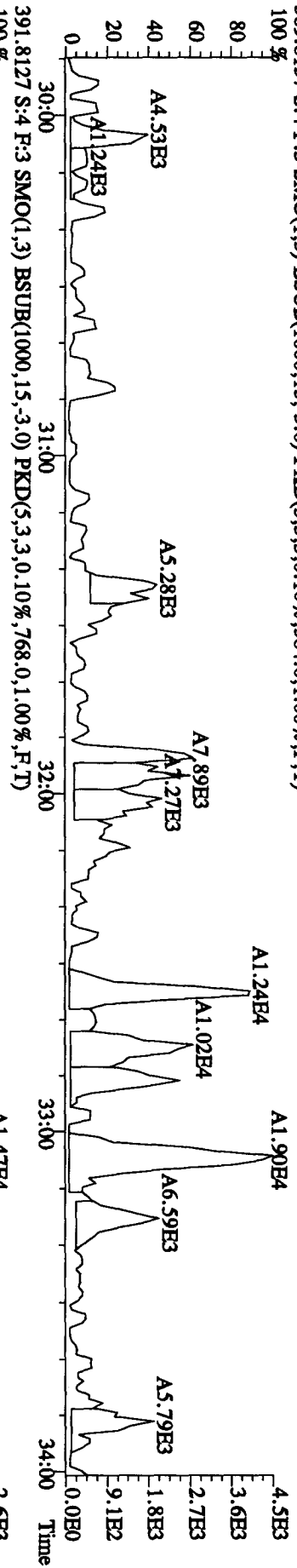
File: 01MY104D5 #1-317 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
 385.8610 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2212.0,1.00%,F,T) Exp:DIOXINRES82>
 Sample Text:LX31Q-1-AA :GOD160000-253B



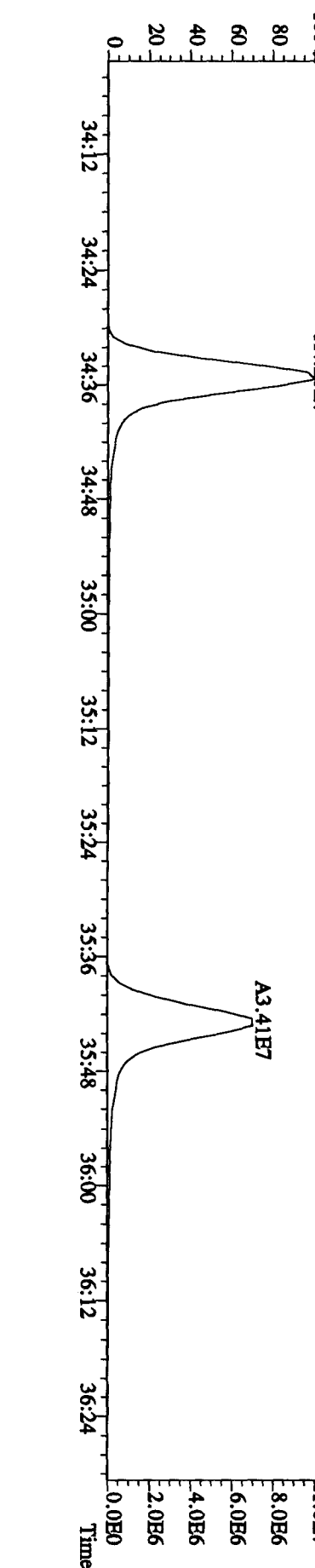
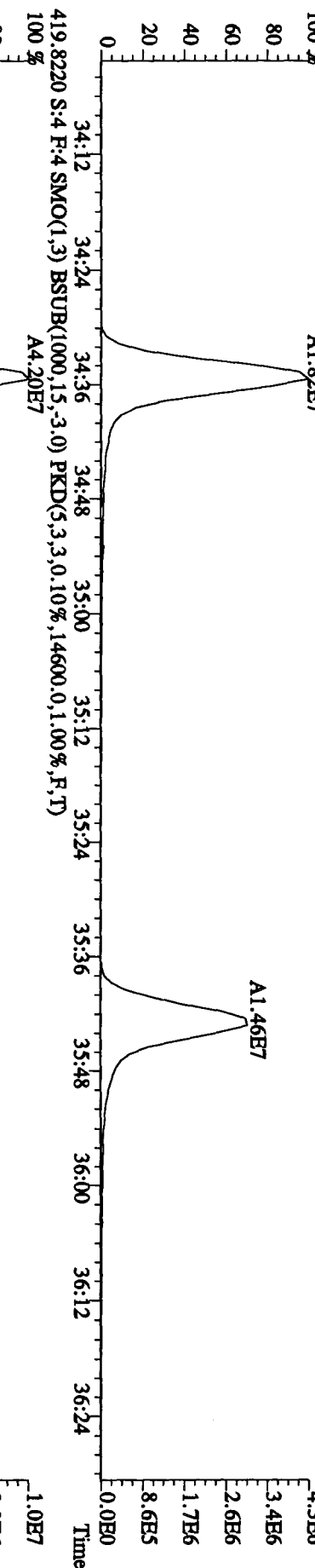
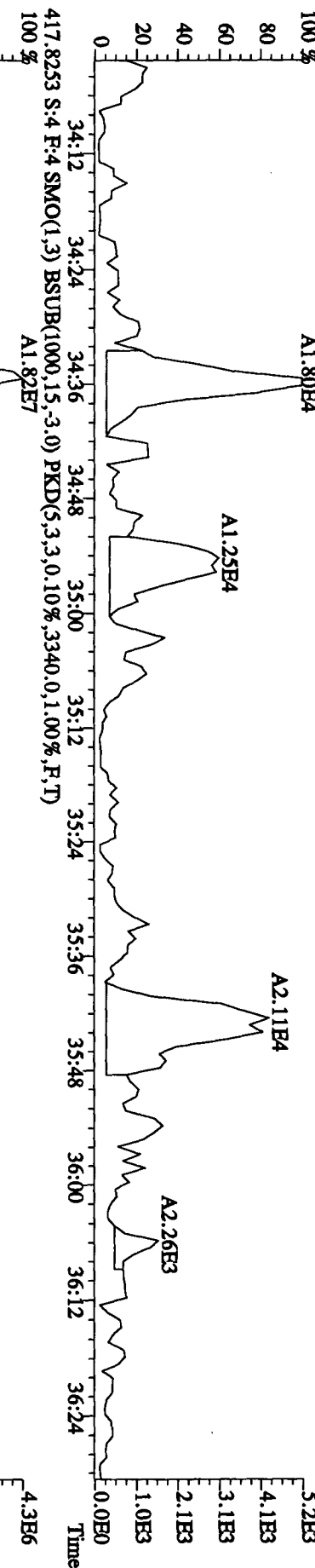
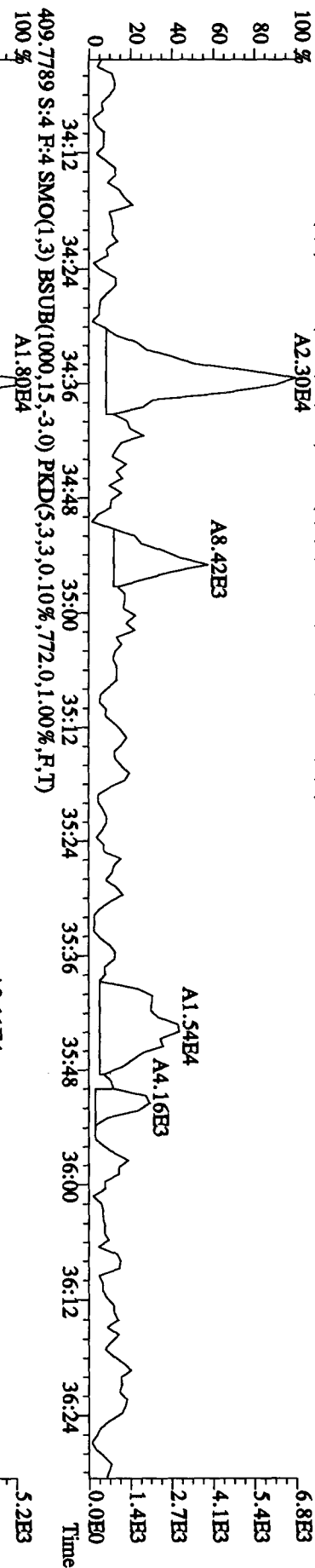
- 1 Peak not found
- 2 Poor chromatography
- 3 Baseline correction
- 4 Manual EDL calculation
- 5 Separate near eluters
- 6 Other

Analyst VP Date 4/5/05

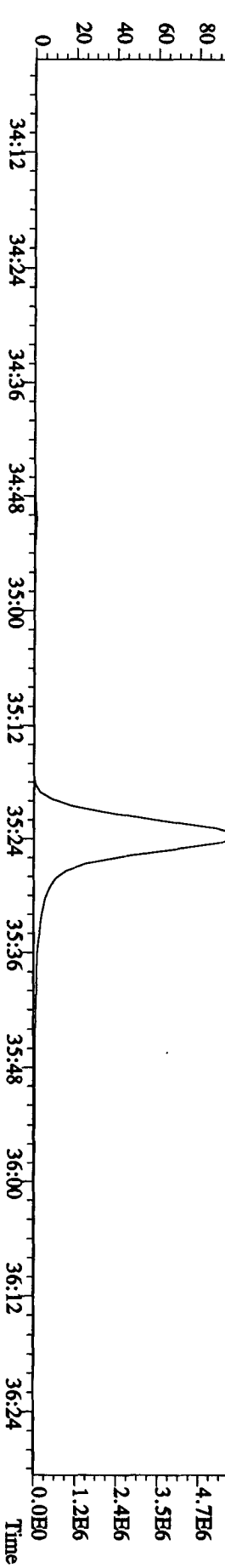
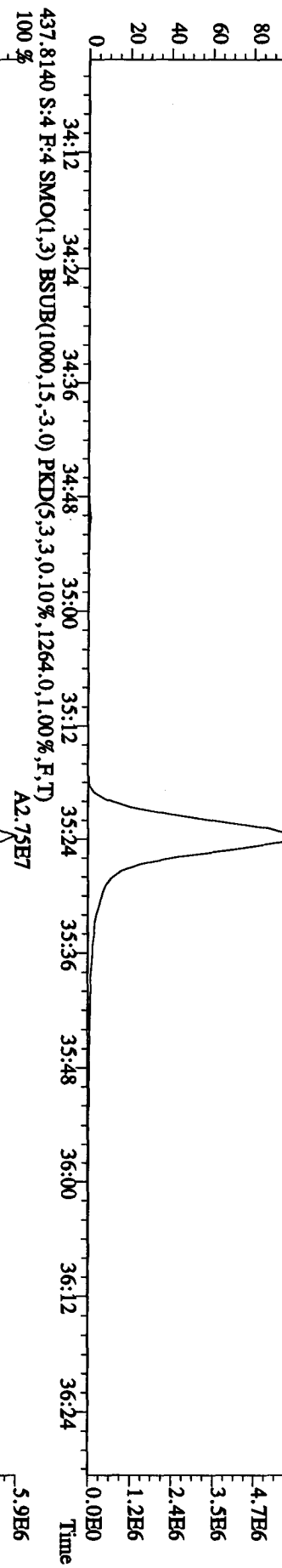
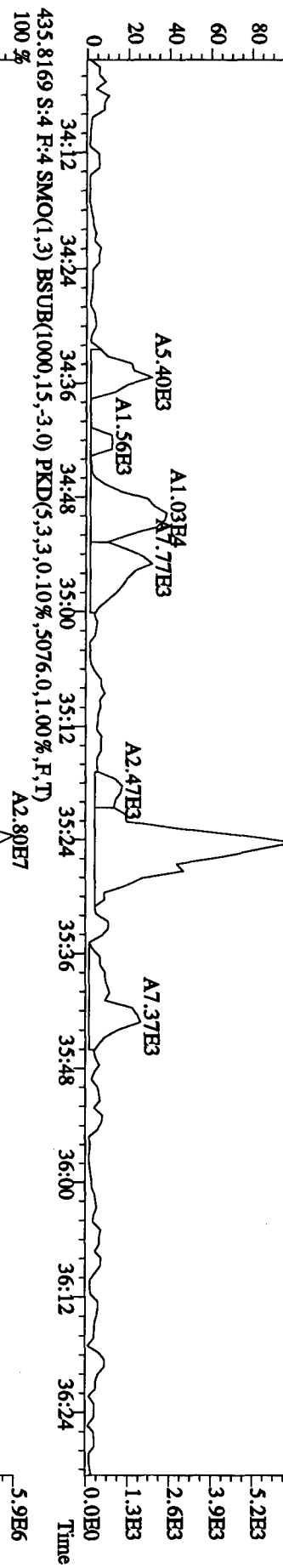
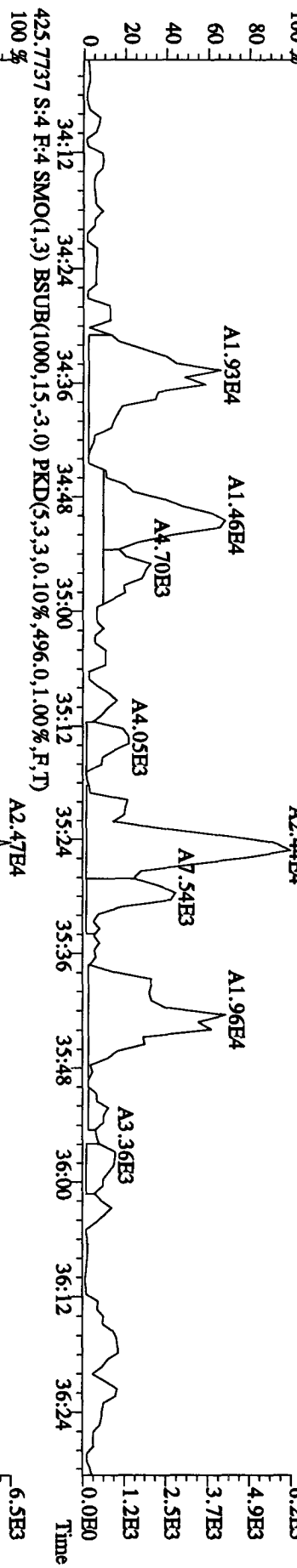
File:01MAY104D5 #1-317 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:LX31Q-1-AA :GDD160000-253B Exp:DIOXINRES8290A
 389.8157 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,584.0,1.00%,F,T) 100 %



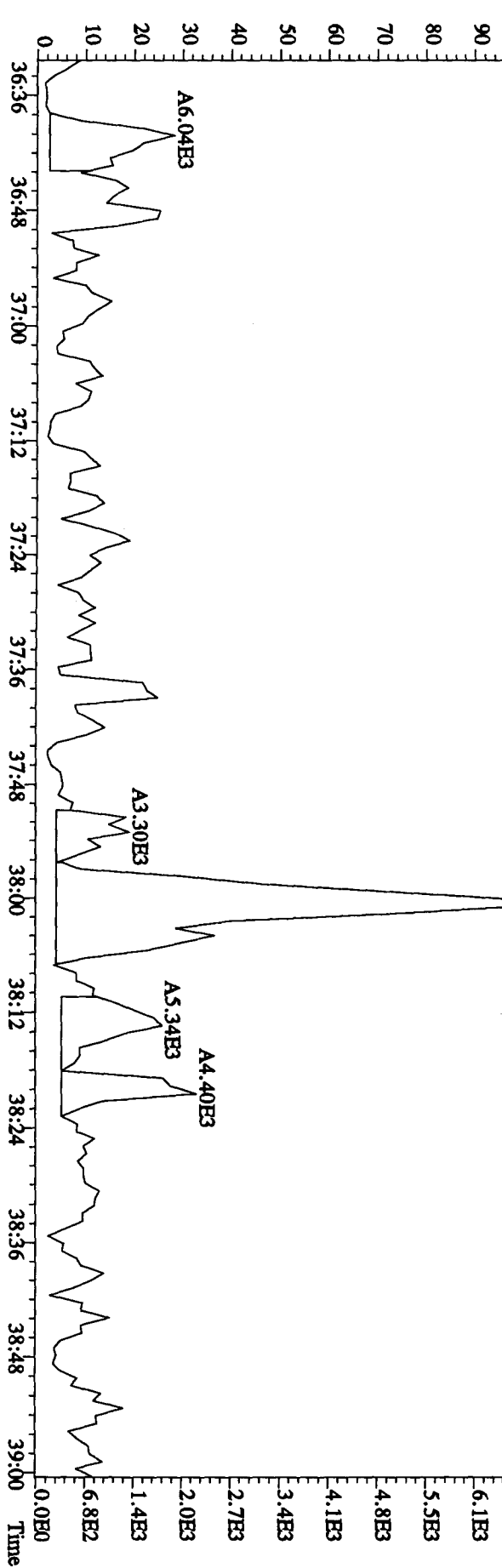
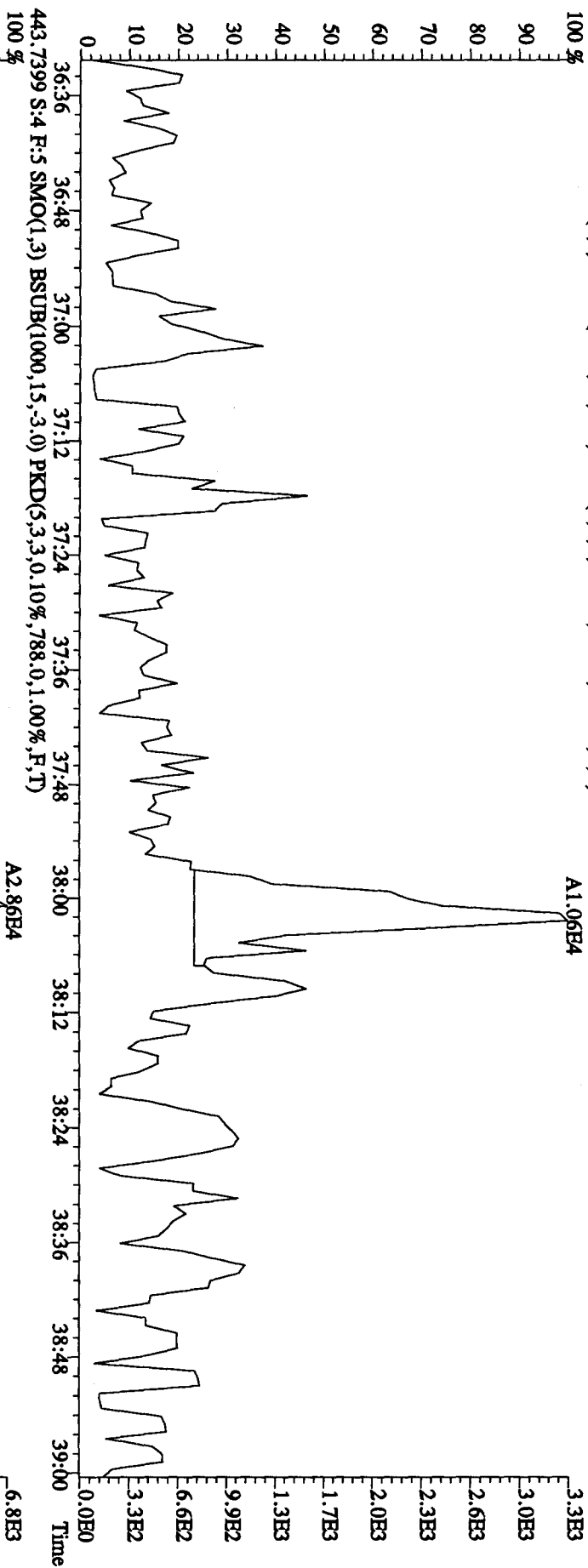
File:01MAY104D5 #1-198 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:LX3LQ-1-AA :GOD160000-253B Exp:DIOXINRES6290A
 407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1136,0,1,00%,F,T)



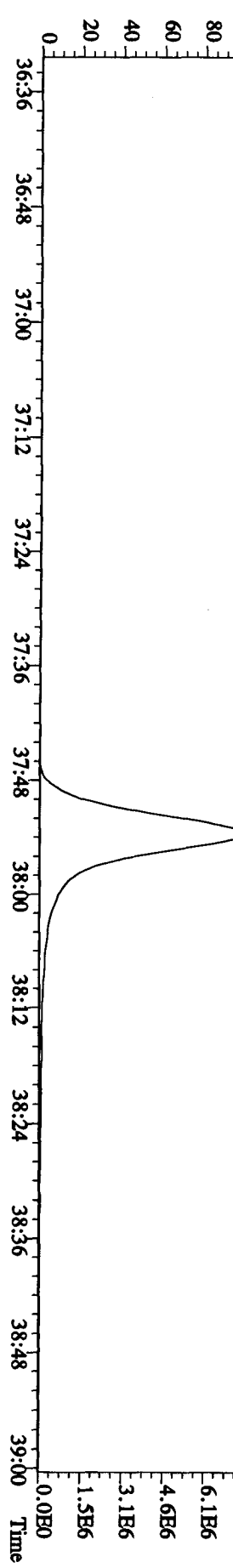
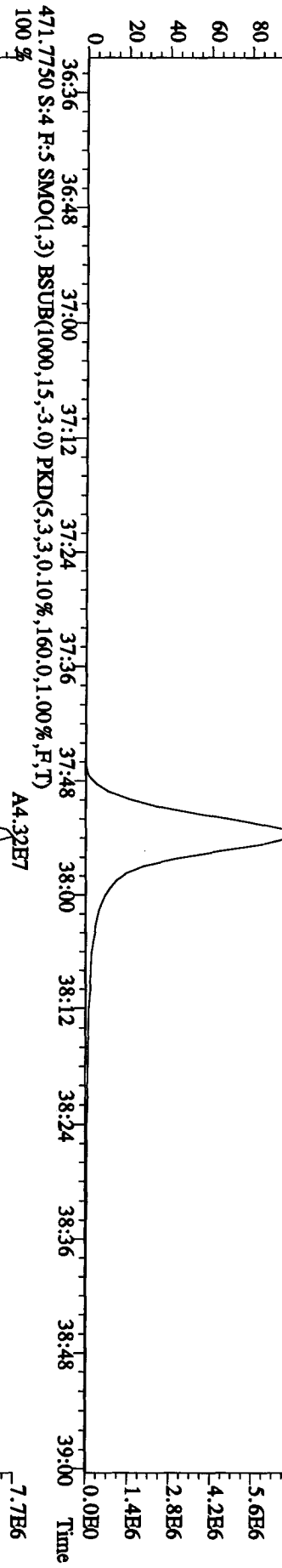
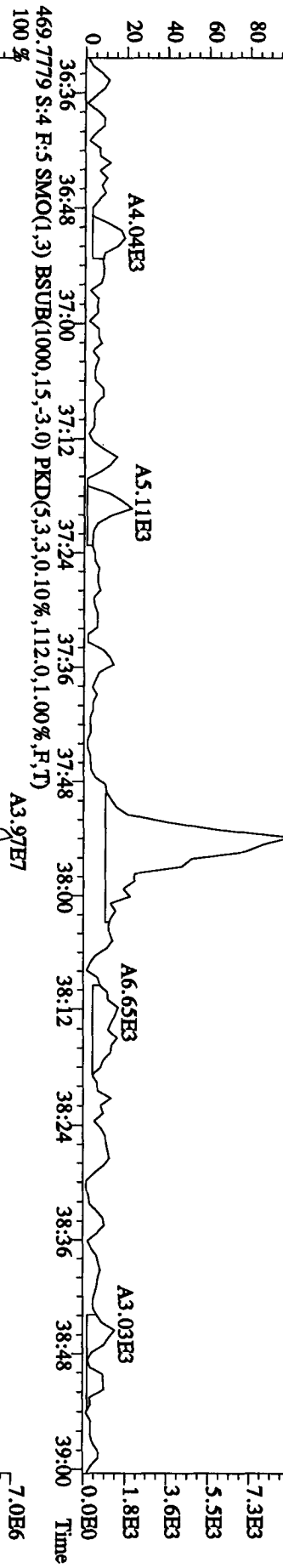
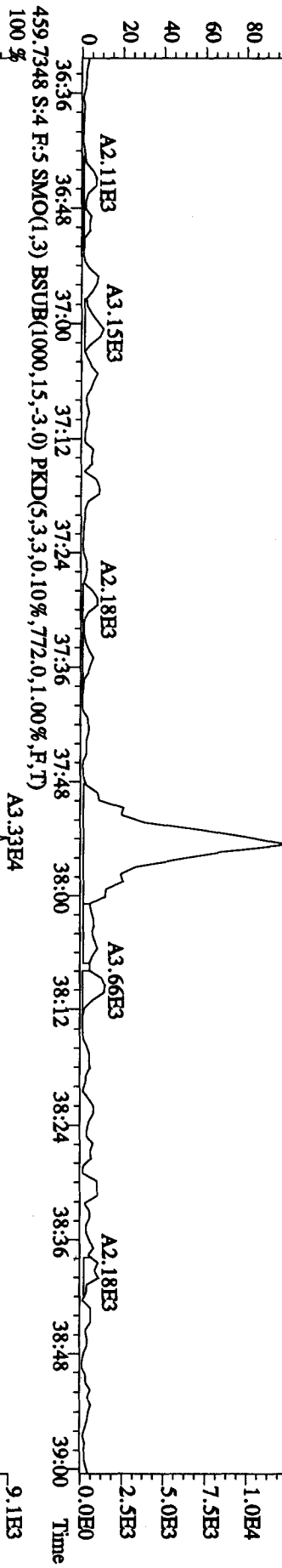
File:01MY104D5 #1-198 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text:LX3LO-1-AA :GOD160000-253B Exp:DIOXINRES8290A
 423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,560.0,1.00%,F,T)



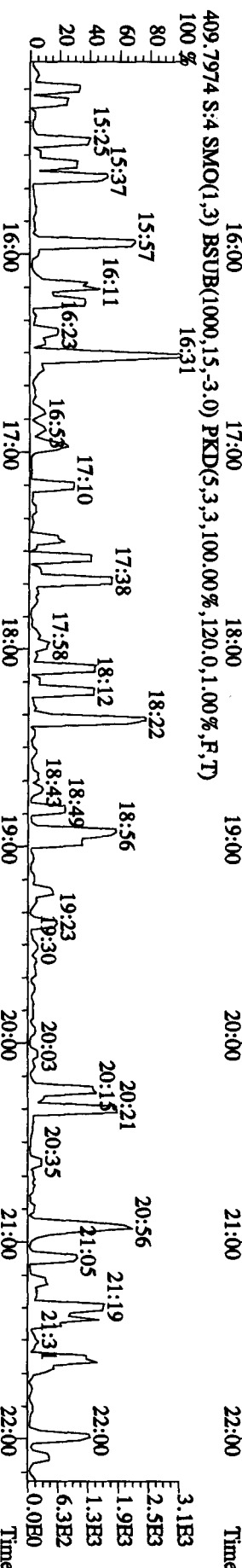
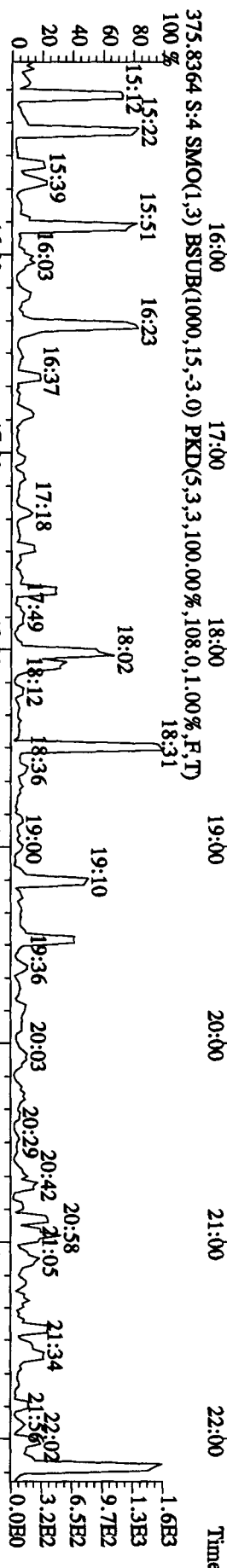
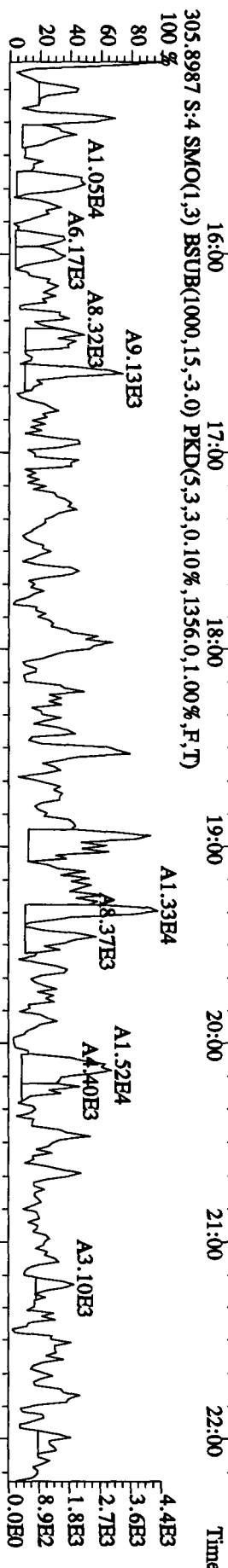
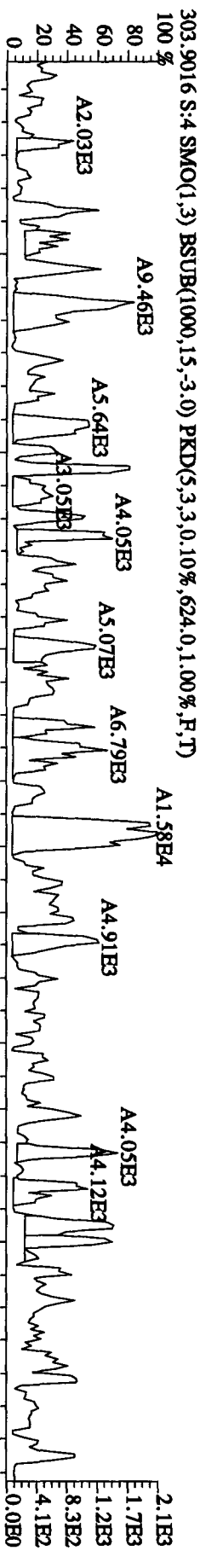
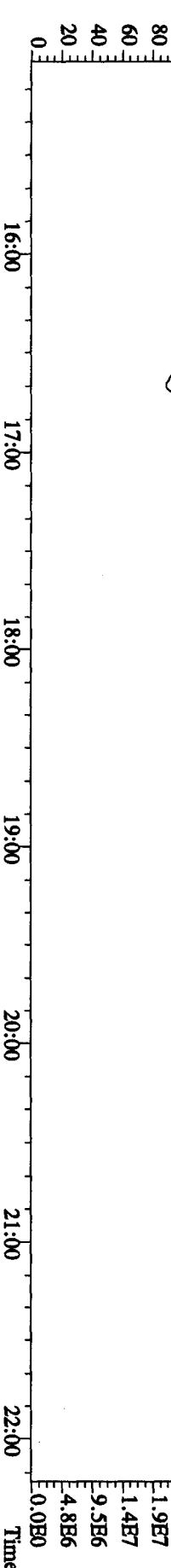
File:01MAY104D5 #1-190 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text:LX3LQ-1-AA :GOD160000-253B Exp:DIOXINRES8290A
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,776.0,1.00%,F,T)



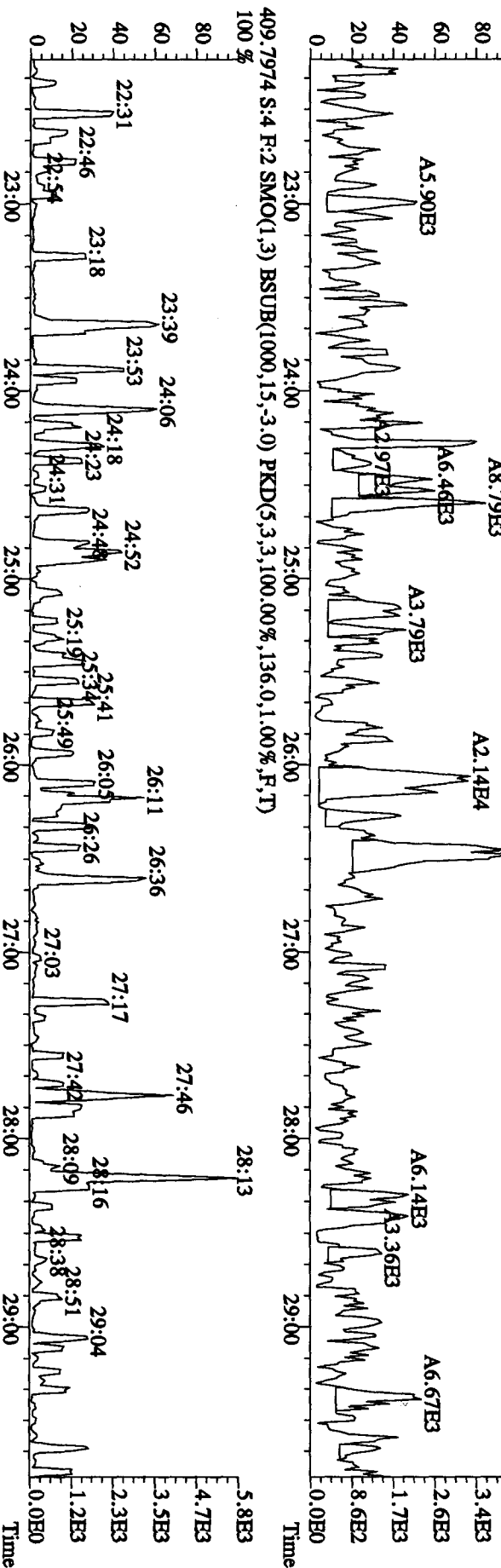
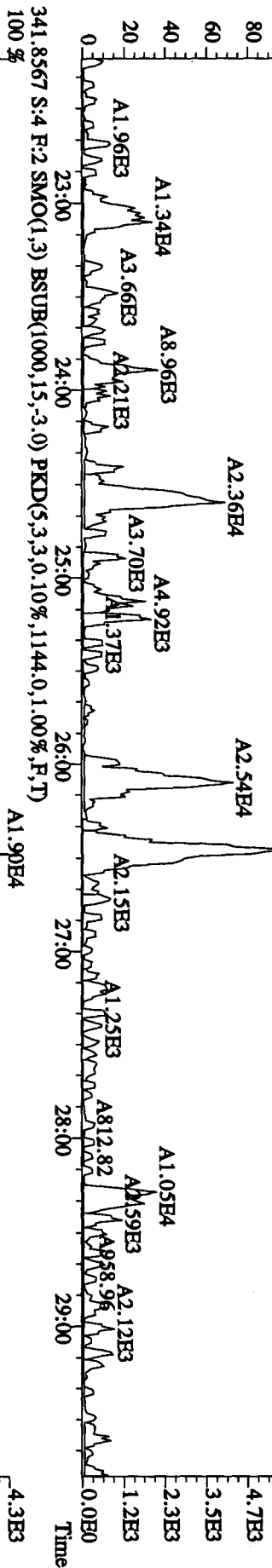
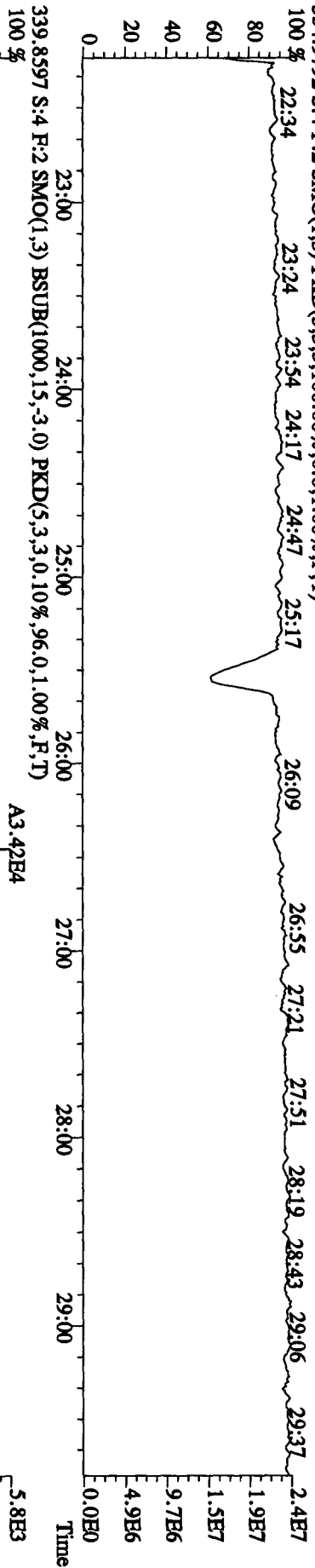
File:01MAY104D5 #1-190 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:LX3LO-1-AA :GDD16000-253B Exp:DIOXINRES8290A
 457.7377 S:4 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,568.0,1.00%,F,T)



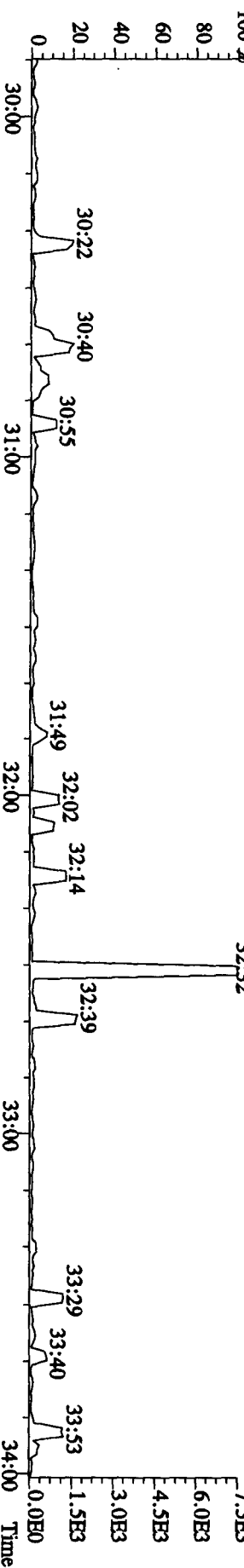
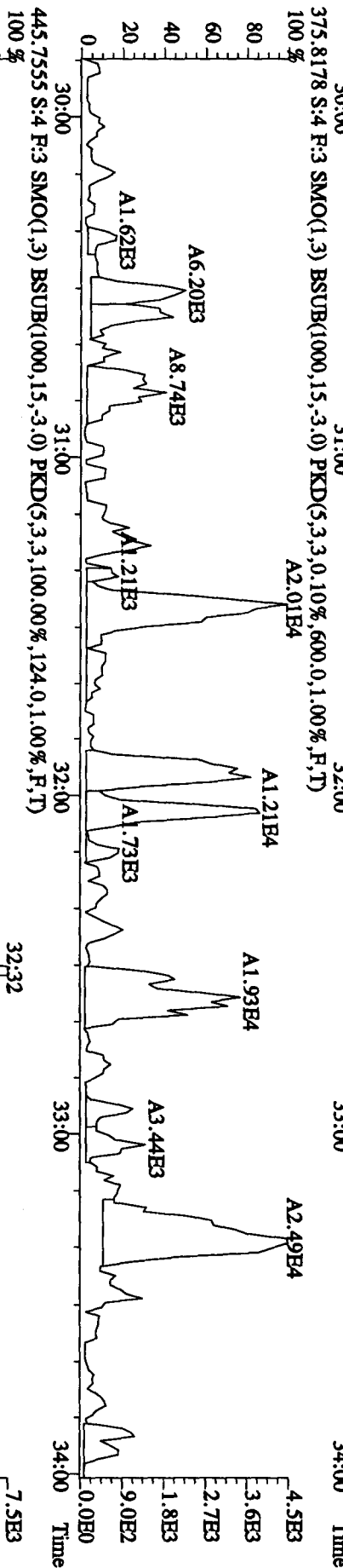
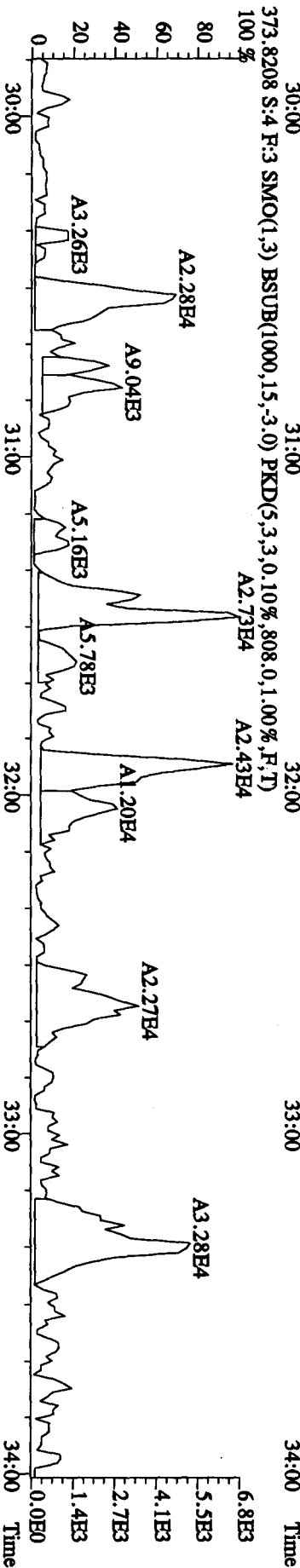
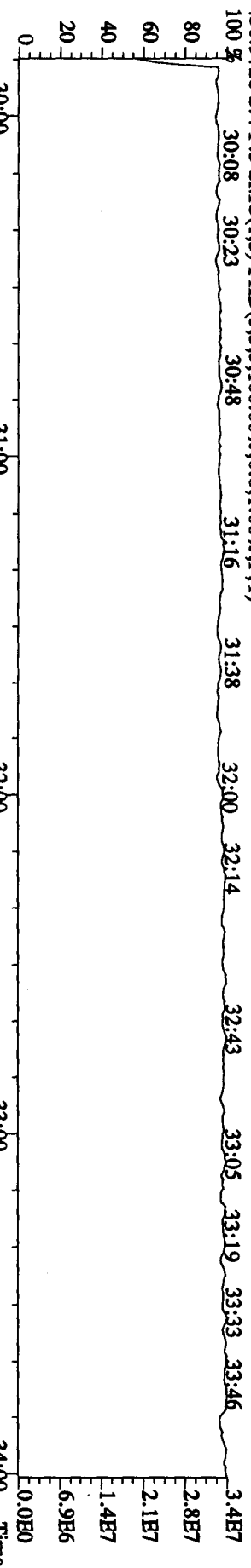
File:01MAY104D5 #1-434 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-Ultimat
 Sample#4 Text:LX3LQ-1-AA :GOD160000-253B Exp:DIOXINRES8290A
 354.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 15:26 16:05 16:28 16:53 17:21 18:04 18:26 18:54 19:29 20:10 20:34 21:11 21:34 22:11 2:4B7



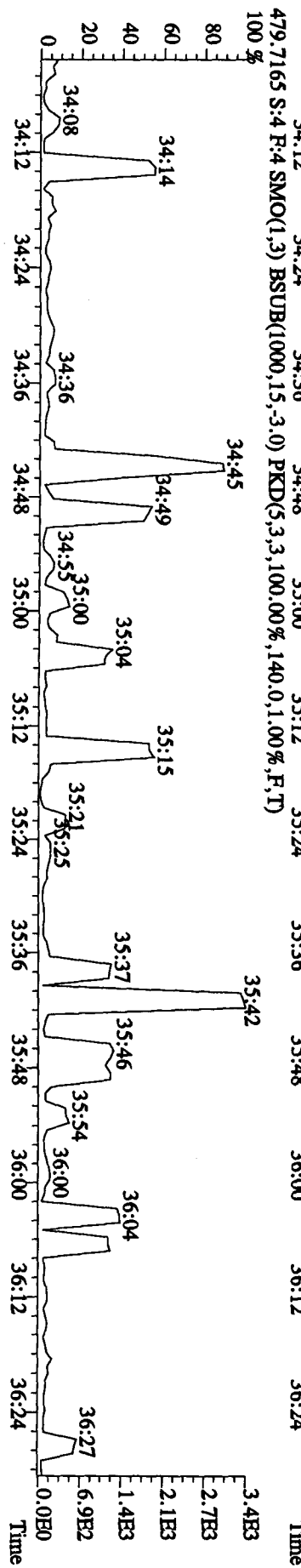
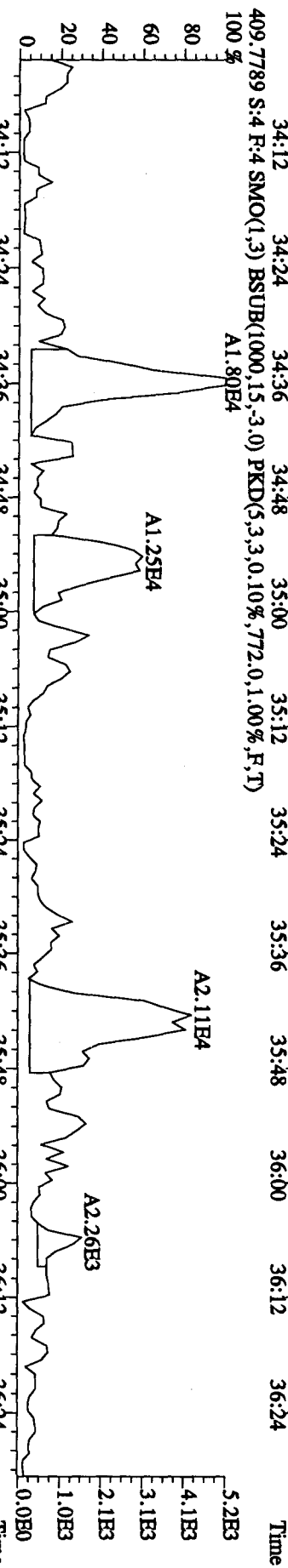
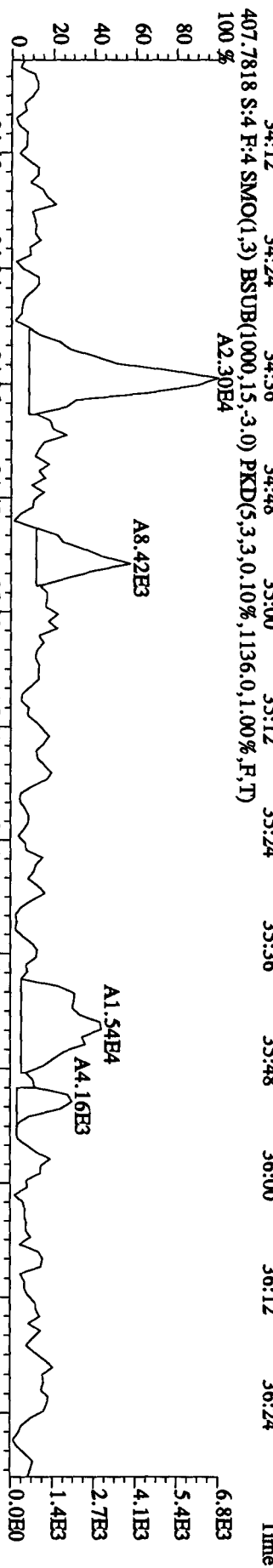
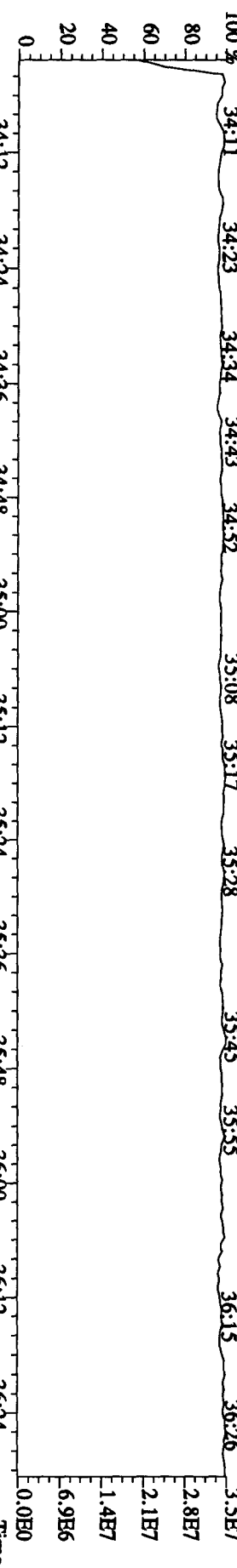
File: 01MY104D5 #1-604 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text: LXLQ-1-AA :GOD160000-253B Exp: DIOXINRES8290A
 354.9792 S:4 F:2 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)



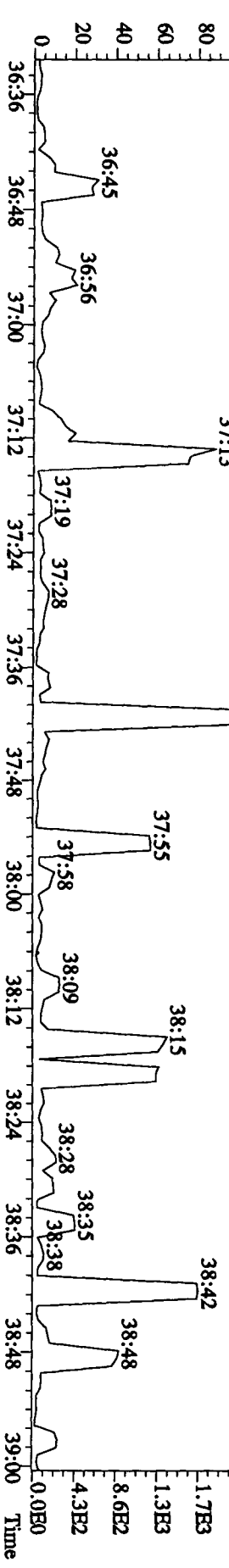
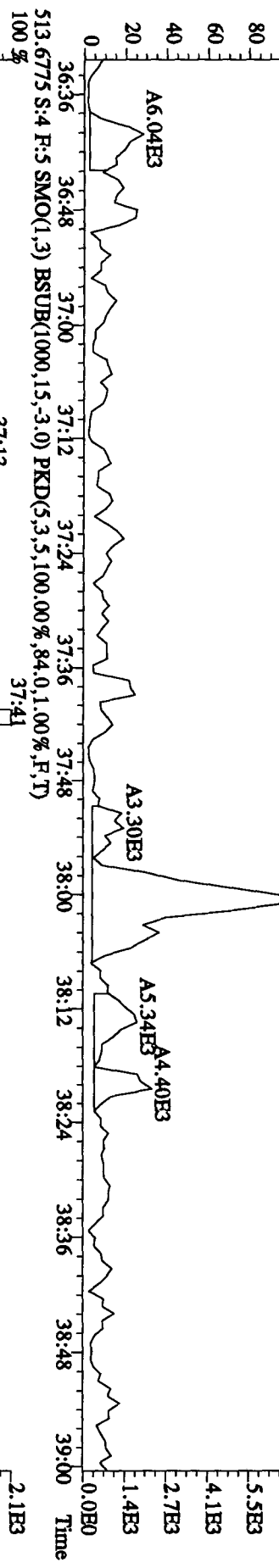
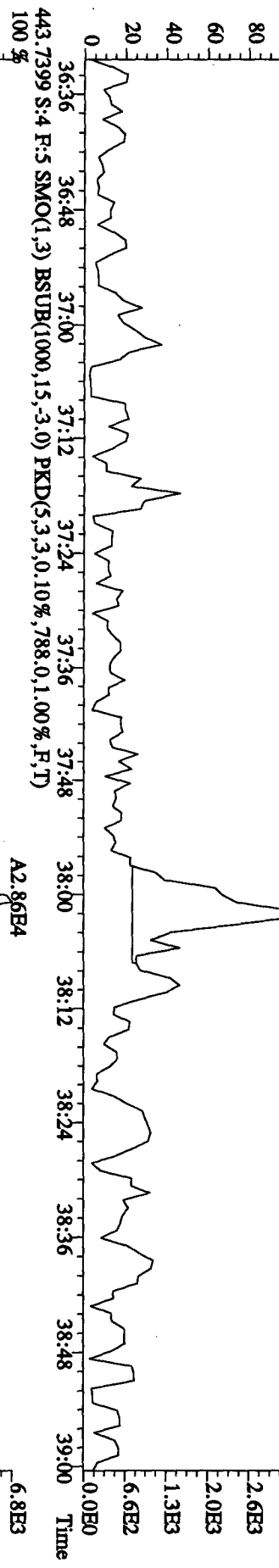
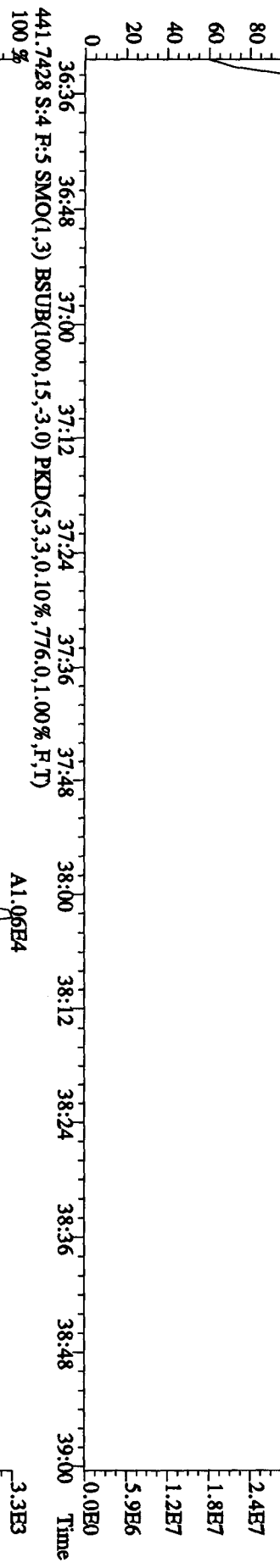
File:01MAY104D5 #1-317 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text:LX3LO-1-AA :GOD160000-253B Exp:DIOXINRES8290A
 430.9728 S:4 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



File: 01MAY104D5 #1-198 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text: LXLO-1-AA :GOD160000-253B Exp: DIOXINRES8290A



File:01MAY104D5 #1-190 Acq: 1-MAY-2010 11:00:25 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:LX31Q-1-AA :GDD160000-253B Exp:DIOXINRESS8290A
 442.9728 S:4 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)
 100% 36:36 36:47 37:03 37:15 37:33 37:43 38:02 38:13 38:24 38:35 38:49 38:56 3:0E7



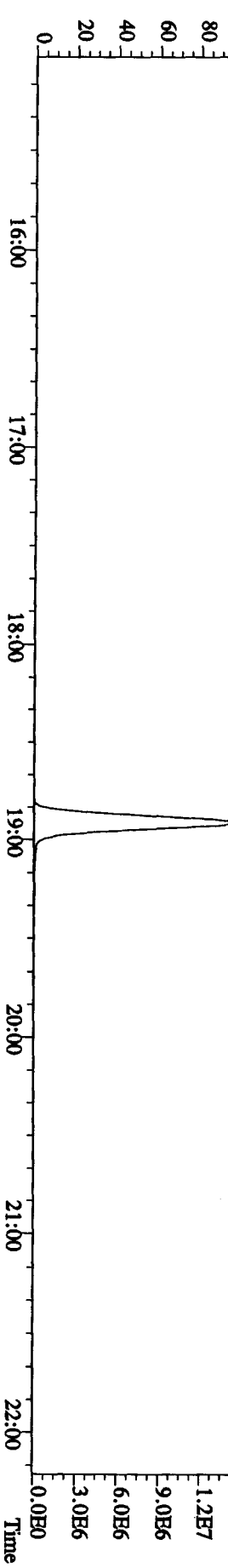
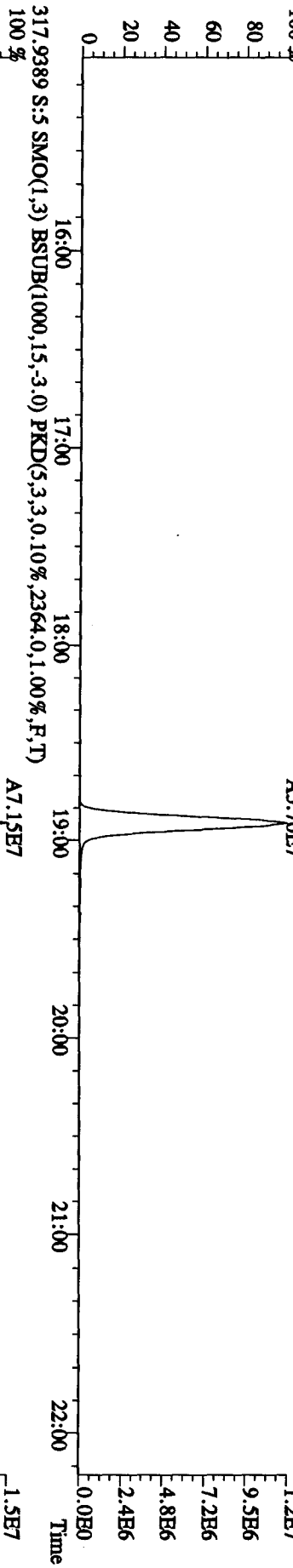
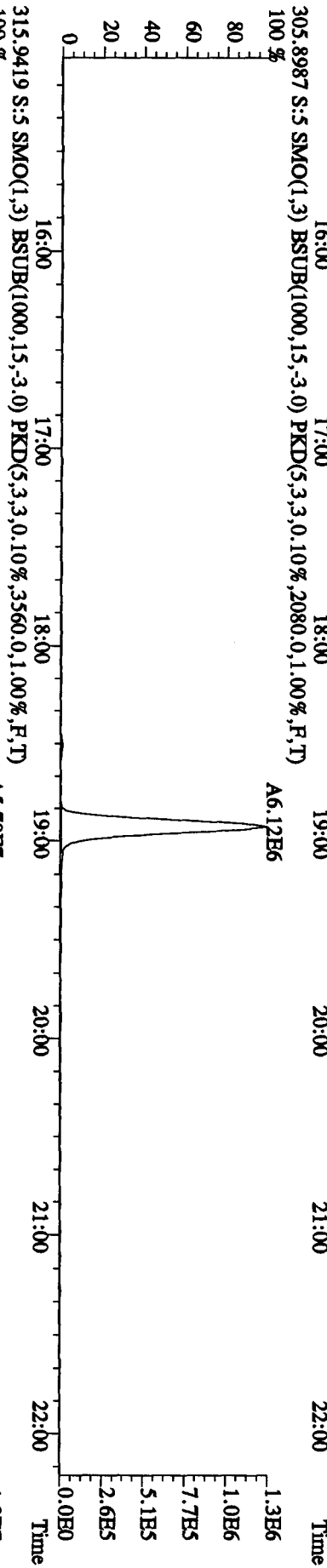
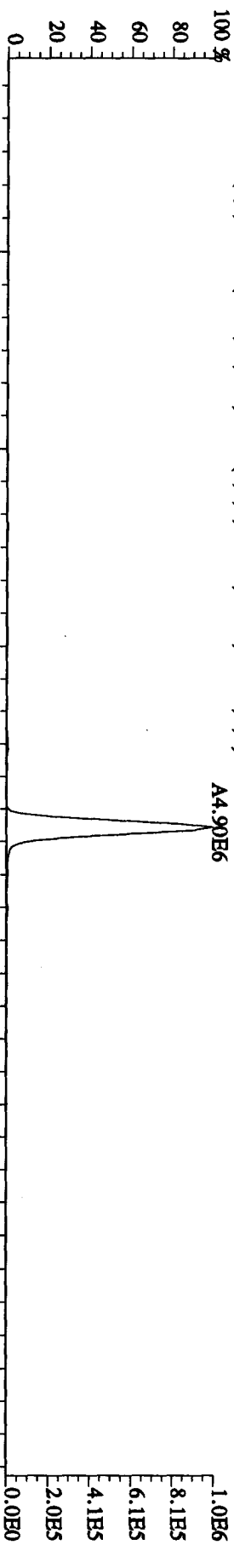
Run text: LX3LQ-1-AC Sample text: LX3LQ-1-AC :G0D160000-253C
Run #8 Filename: 01MY104D5 S: 5 I: 1 Results: 01MY104D58290A
Acquired: 1-MAY-10 11:44:27 Processed: 2-MAY-10 09:21:46
Run: 01MY104D5 Analyte: 8290A Cal: 8290A0412104D5
Sample size: 1.00 L

=LOW 8 GIAC ✓

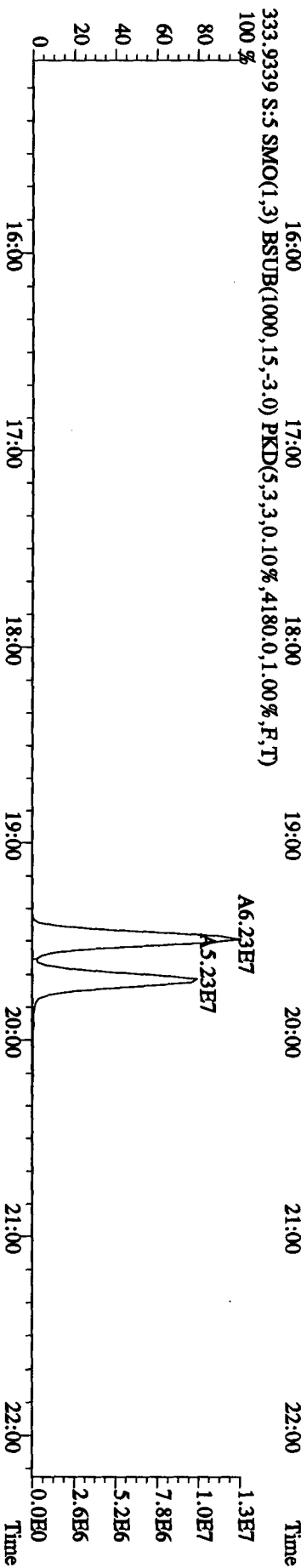
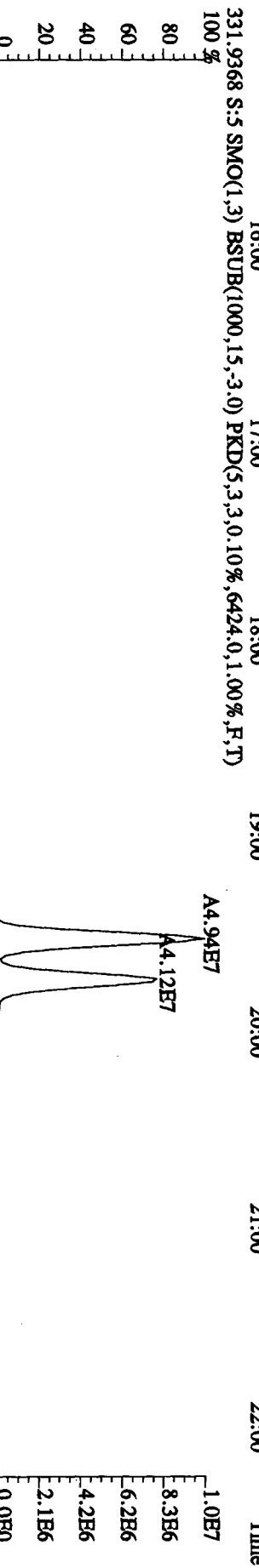
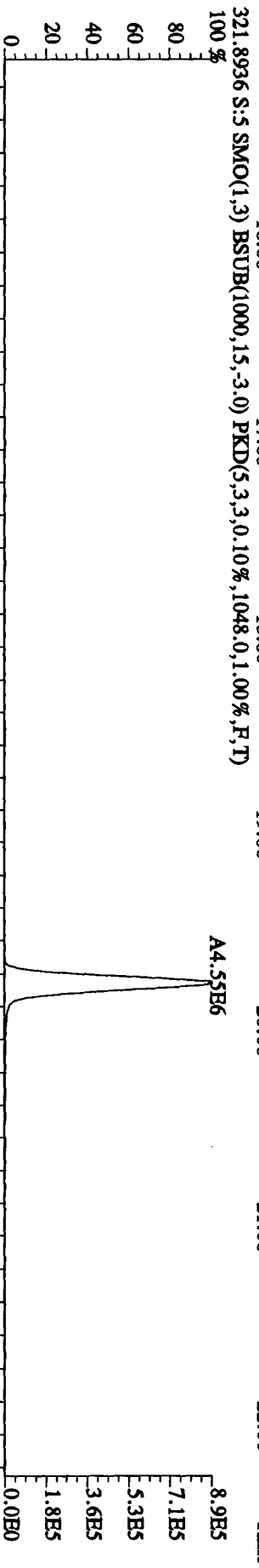
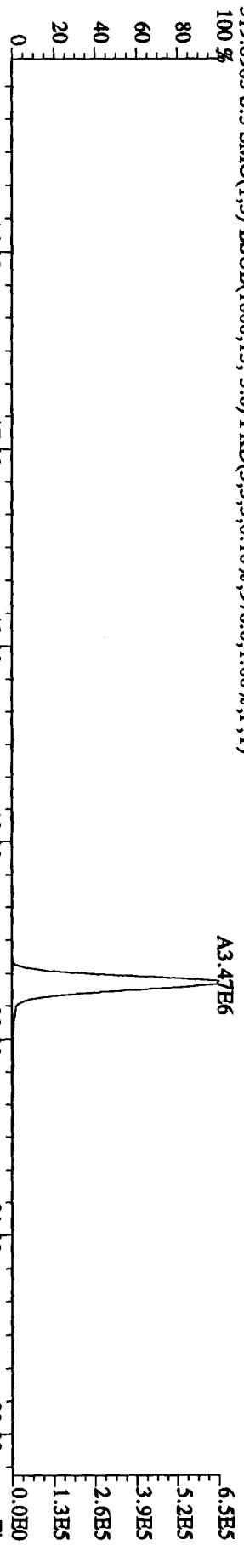
K 5.3.10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	111747400	0.79 y	19:29	-	83.9959	-	-	n
13C-2,3,7,8-TCDF	128473800	0.80 y	18:55	1.52	1512.0036	1.0001	75.6	n
2,3,7,8-TCDF	11015430	0.80 y	18:56	0.95	181.4010	0.6786	-	n
Total TCDF	11115986	0.73 y	18:32	0.95	183.0569	0.6786	-	n
13C-2,3,7,8-TCDD	93526100	0.79 y	19:41	0.95	1762.5629	2.8665	88.1	n
2,3,7,8-TCDD	8024270	0.76 y	19:42	1.02	168.0618	0.6516	-	n
Total TCDD	8088477	0.74 y	18:29	1.02	169.4066	0.6516	-	n
37Cl-2,3,7,8-TCDD	92637600	1.00 y	19:43	2.26	733.1990	0.4223	91.6	n
13C-1,2,3,7,8-PeCDF	97962600	1.61 y	24:34	1.05	1669.2801	1.2642	83.5	n
1,2,3,7,8-PeCDF	46251200	1.59 y	24:35	1.04	903.8103	1.2628	-	n
2,3,4,7,8-PeCDF	45521200	1.59 y	26:05	0.98	946.2495	1.3433	-	n
Total F2 PeCDF	93028421	2.18 n	23:03	1.01	1875.3622	1.3018	-	n
Total F1 PeCDF	50066	0.37 n	16:39	1.01	1.0086	0.5266	-	n
13C-1,2,3,7,8-PeCDD	71262100	1.56 y	26:52	0.67	1902.2737	1.1855	95.1	n
1,2,3,7,8-PeCDD	30229500	1.61 y	26:53	0.98	864.0215	1.0725	-	n
Total PeCDD	30260224	1.61 y	26:53	0.98	864.8997	1.0725	-	n
13C-1,2,3,7,8,9-HxCDD	82977500	1.28 y	33:05	-	80.7511	-	-	n
13C-1,2,3,4,7,8-HxCDF	70791700	0.52 y	31:54	1.02	1664.8938	0.2293	83.2	n
1,2,3,4,7,8-HxCDF	40892200	1.29 y	31:55	1.21	952.7170	0.3937	-	n
1,2,3,6,7,8-HxCDF	45458900	1.29 y	32:02	1.34	956.4429	0.3555	-	n
2,3,4,6,7,8-HxCDF	43306400	1.26 y	32:36	1.22	1000.9933	0.3906	-	n
1,2,3,7,8,9-HxCDF	37163400	1.27 y	33:15	1.09	961.0713	0.4370	-	n
Total HxCDF	166898573	0.96 n	30:47	1.22	3873.0269	0.3921	-	n
13C-1,2,3,6,7,8-HxCDD	69584000	1.27 y	32:48	0.81	2078.1126	0.1121	103.9	n
1,2,3,4,7,8-HxCDD	26948400	1.28 y	32:44	1.01	769.3609	0.3496	-	n
1,2,3,6,7,8-HxCDD	34634800	1.29 y	32:49	1.11	893.6803	0.3160	-	n
1,2,3,7,8,9-HxCDD	34442100	1.30 y	33:06	1.21	818.7920	0.2911	-	n
Total HxCDD	96209137	1.28 y	32:44	1.11	2486.5939	0.3171	-	n
13C-1,2,3,4,6,7,8-HpCDF	63718000	0.44 y	34:35	0.86	1780.4399	11.8820	89.0	n
1,2,3,4,6,7,8-HpCDF	37301700	0.96 y	34:36	1.31	893.9879	3.8459	-	n
1,2,3,4,7,8,9-HpCDF	30372300	0.97 y	35:43	1.03	929.5078	4.9110	-	n
Total HpCDF	67674000	0.96 y	34:36	1.17	1823.4957	4.3136	-	n
13C-1,2,3,4,6,7,8-HpCDD	58139700	1.04 y	35:24	0.70	2009.0994	1.5727	100.5	n
1,2,3,4,6,7,8-HpCDD	27200500	1.04 y	35:24	1.07	872.9686	2.5095	-	n
Total HpCDD	27428715	1.07 y	34:51	1.07	880.2929	2.5095	-	n
13C-OCDD	87997500	0.89 y	37:54	0.53	3991.4359	0.0828	99.8	n
OCDF	56387400	0.91 y	38:01	1.45	1773.3622	0.7519	-	n
OCDD	46066800	0.89 y	37:55	1.17	1795.5019	3.5106	-	n

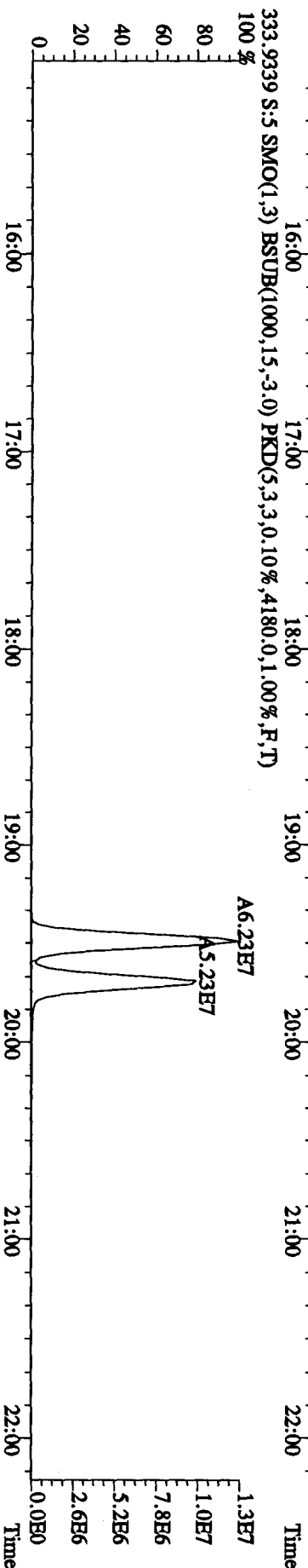
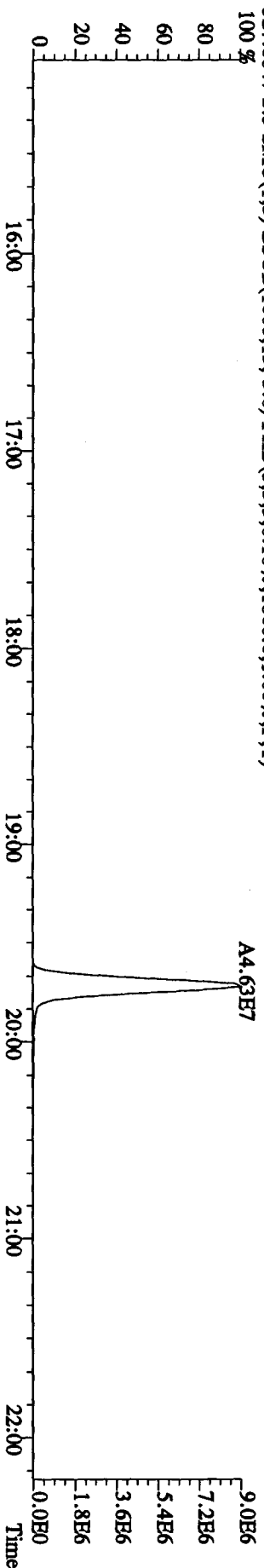
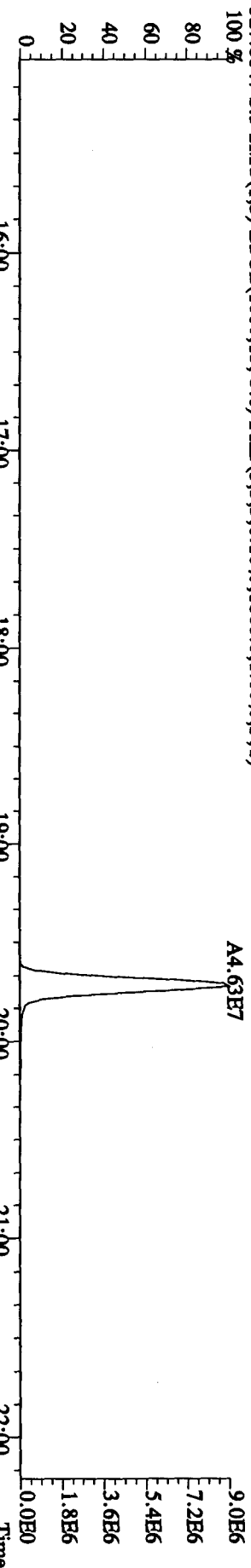
File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:LX3LQ-1-AC :GDD160000-253C Exp.:DIOXINRESS8290A
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,796.0,1.00%,F,T)
 100 %



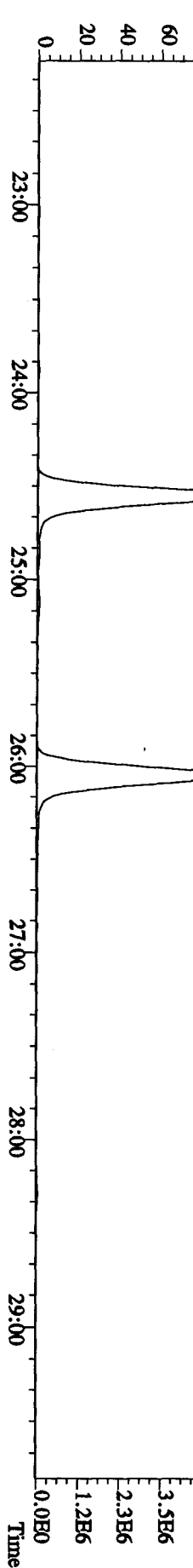
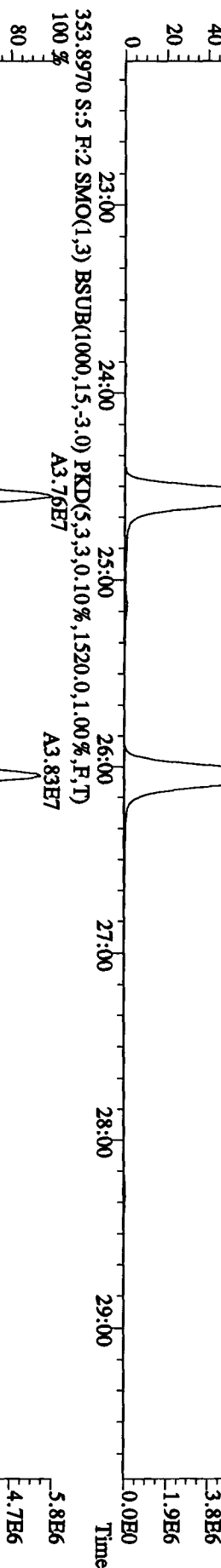
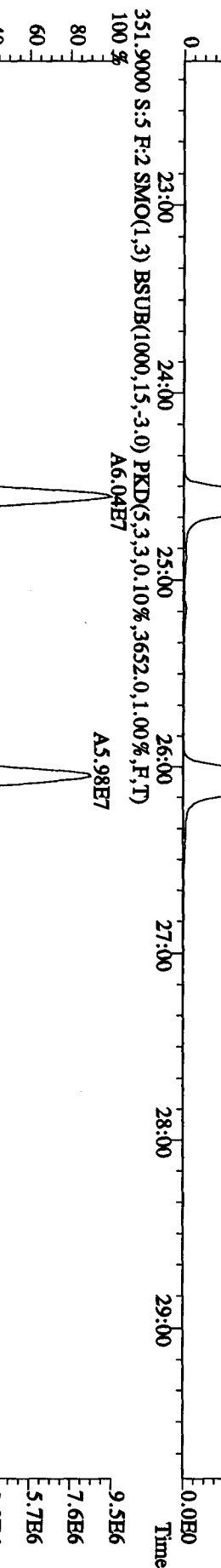
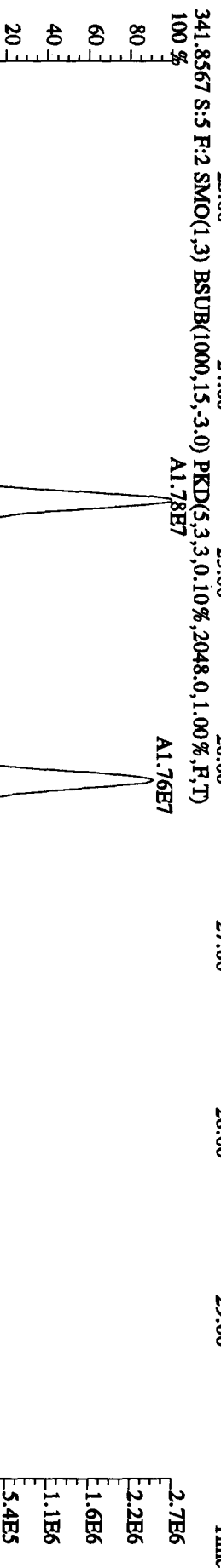
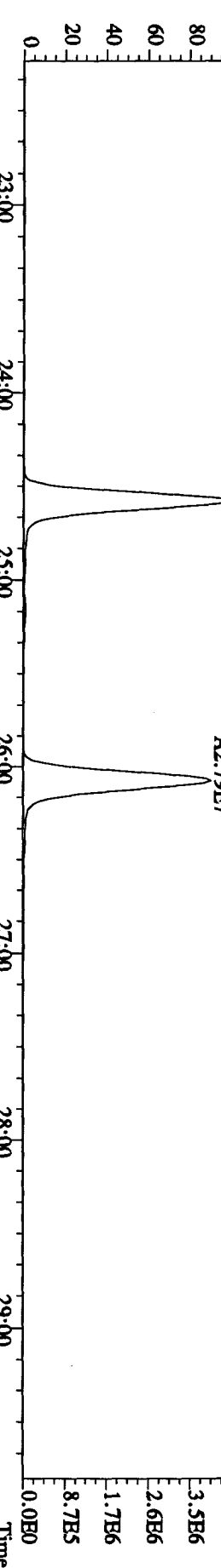
File: 01MAY104D5 #1-434 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text: LX3LQ-1-AC :GOD160000-253C Exp: DIOXINRES8290A
 319.8965 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,976.0,1.00%,F,T)



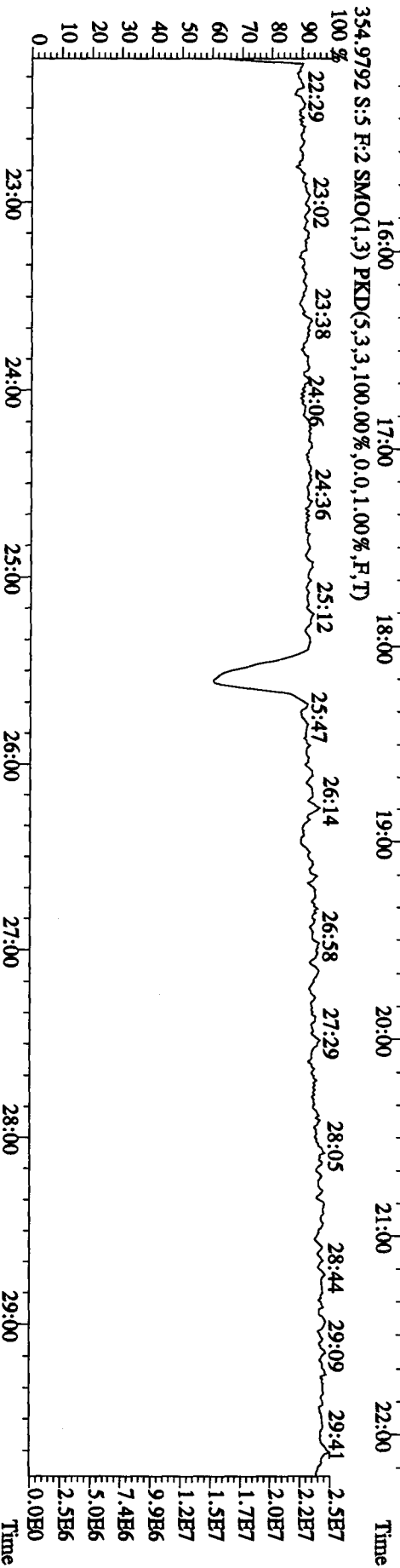
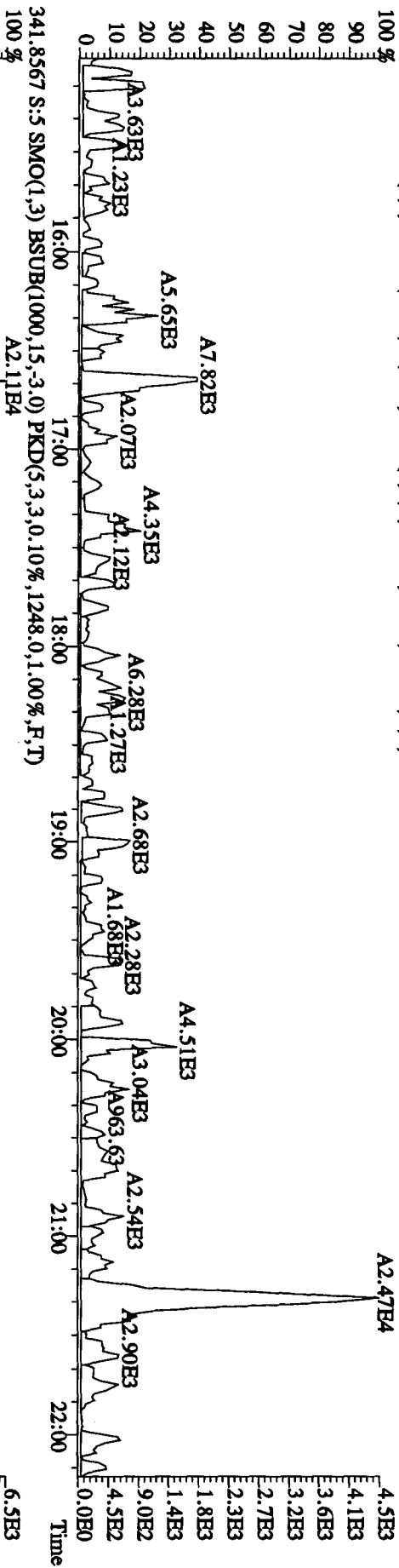
File:01MAY104D5 #1-434 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:LX3LO-1-AC :G0D160000-253C Exp:DIOXINRES8290A
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1860.0,1.00%,F,T)



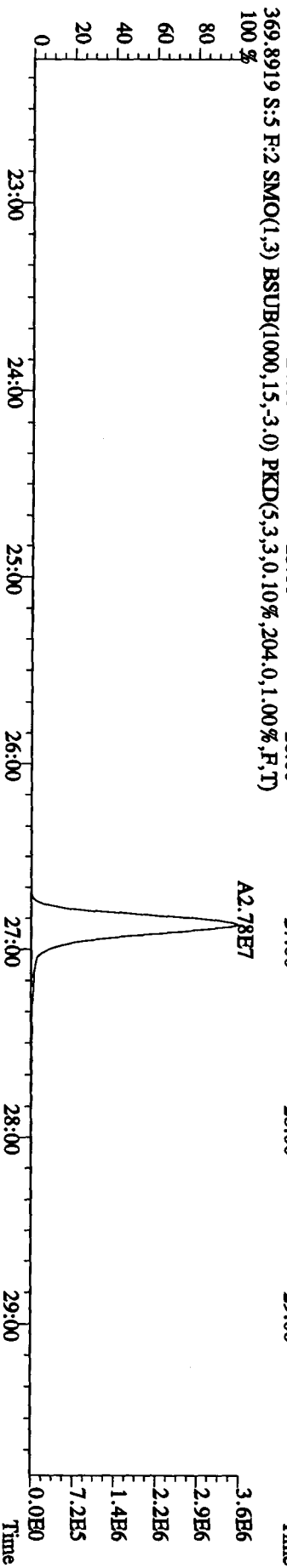
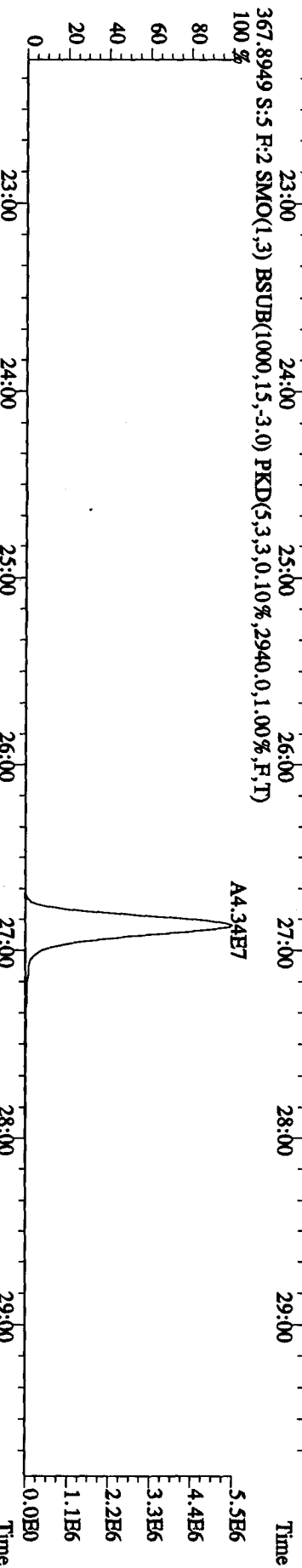
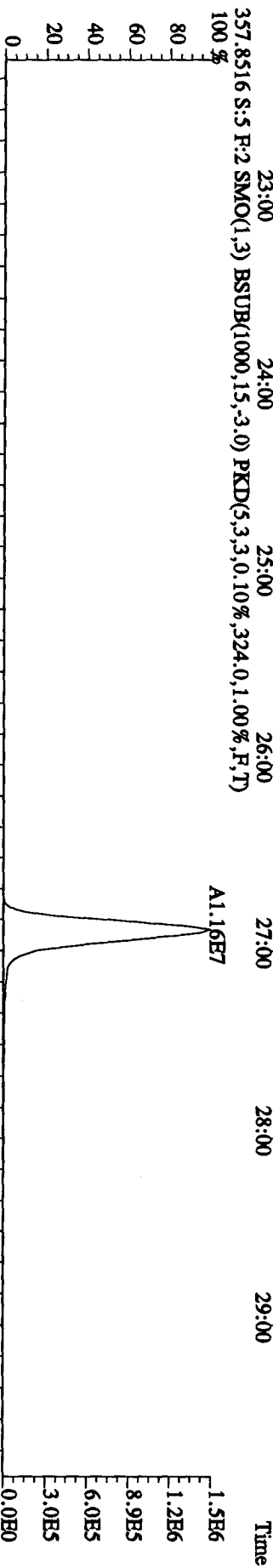
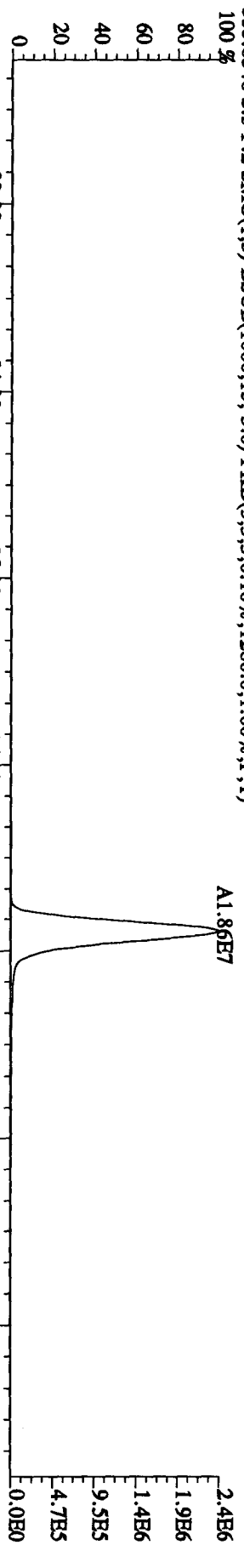
File:01MY104D5 #1-604 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:LX3LO-1-AC :G0D160000-253C Exp:DIOXINRES8290A
 339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1304,0,1,00%,F,T)
 100 % A2.84E7



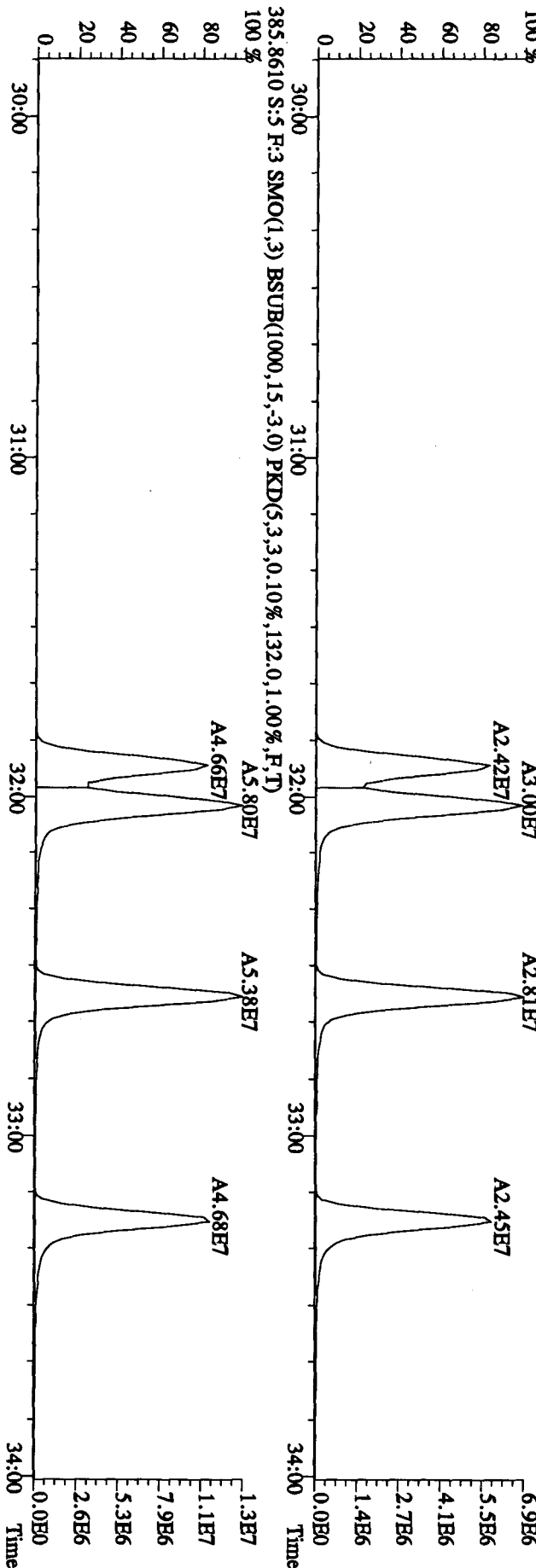
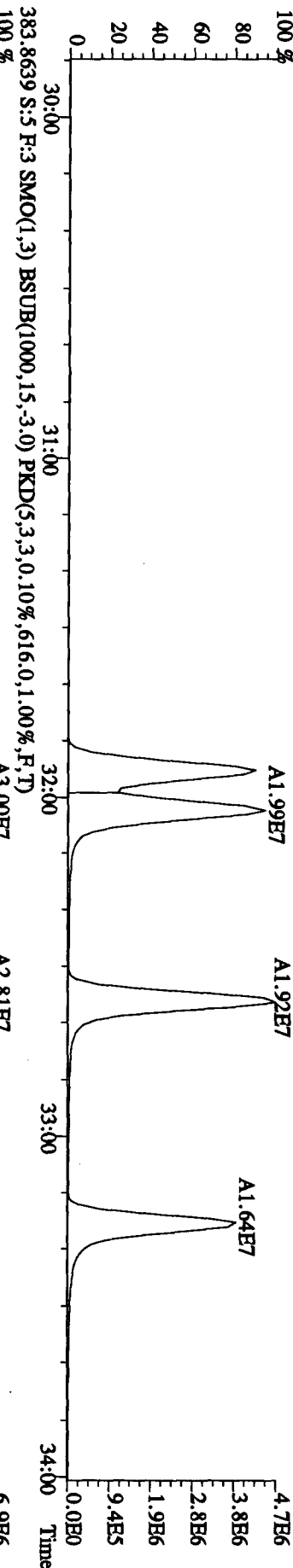
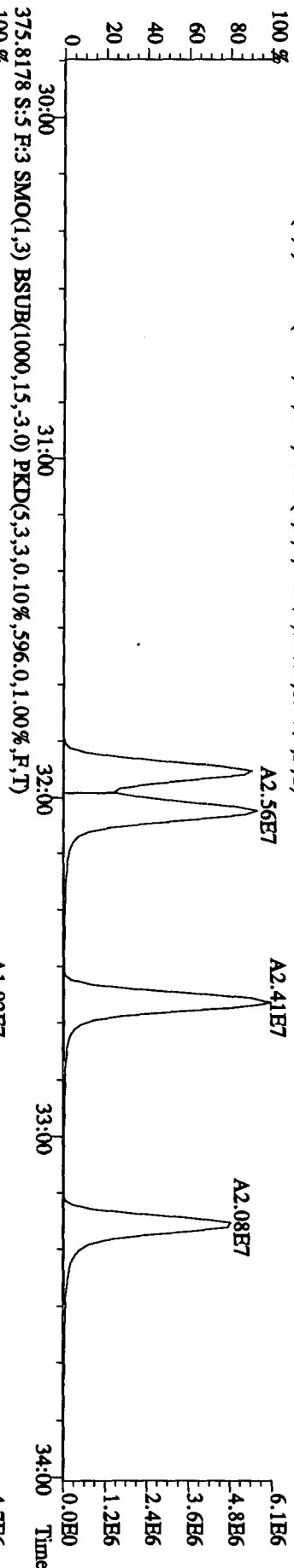
File:01MY104D5 #1-434 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:LX3LQ-1-AC :G0D160000-253C Exp:DIOXINRES8290A
 339.8597 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,108.0,1.00%,F,T)



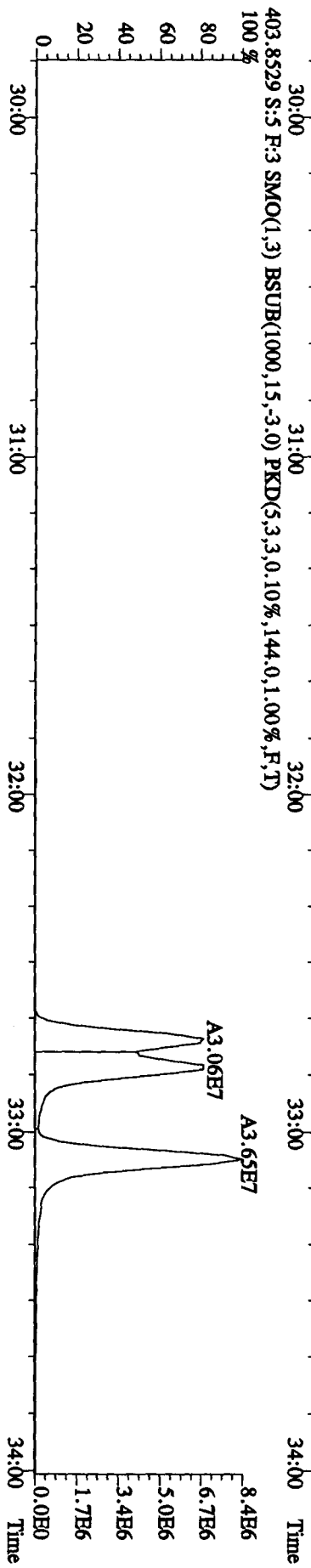
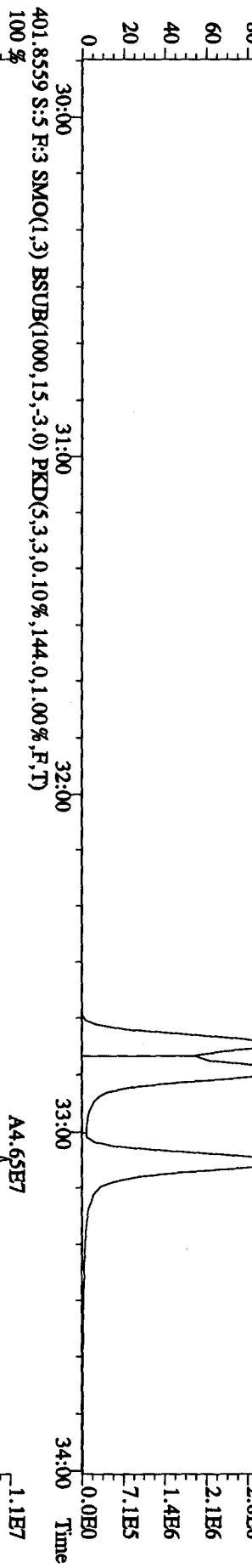
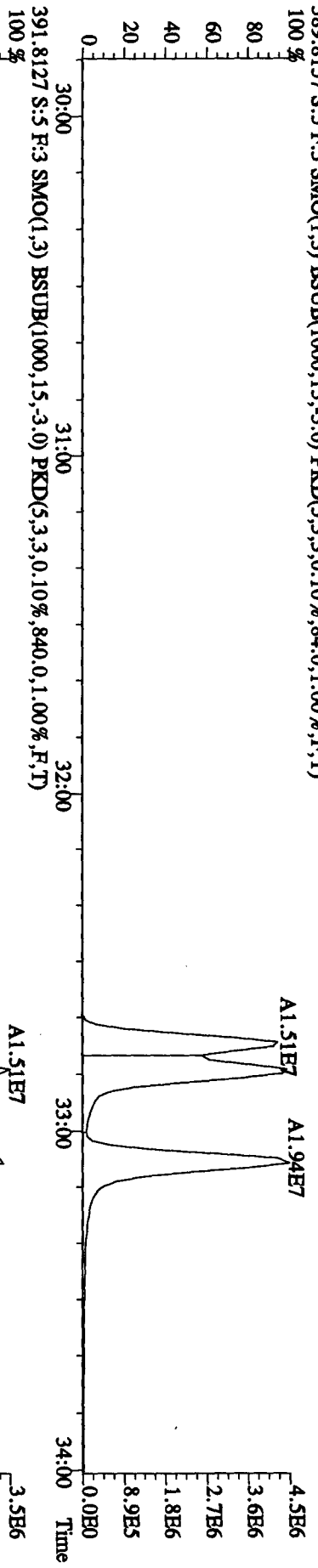
File:01MAY104D5 #1-604 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:LX3LO-1-AC :G0D160000-253C Exp:DIOXINRES8290A
 355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1280,0,1,00%,F,T)



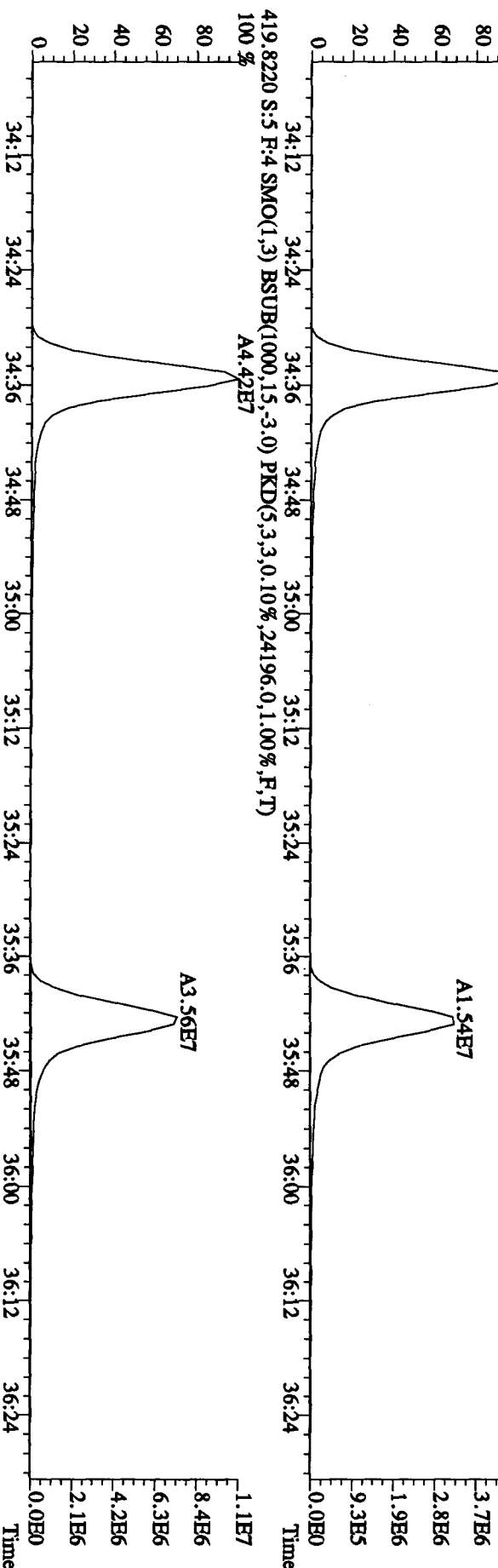
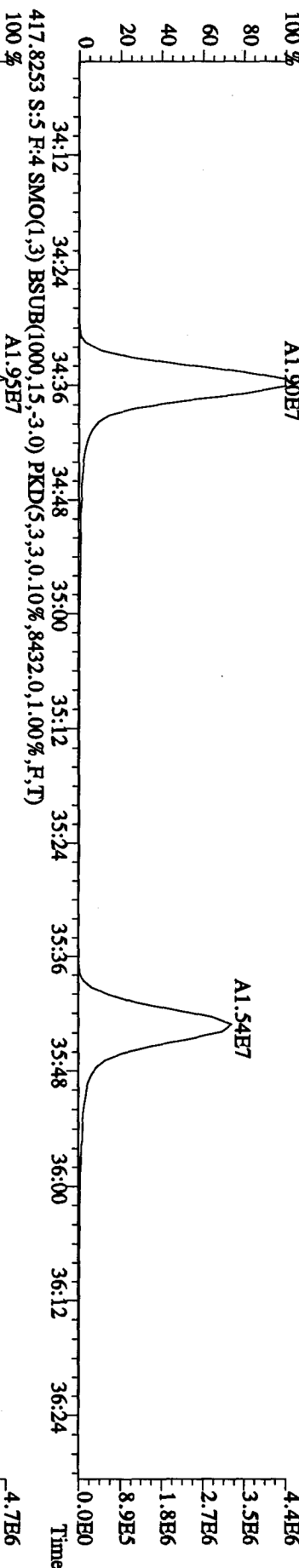
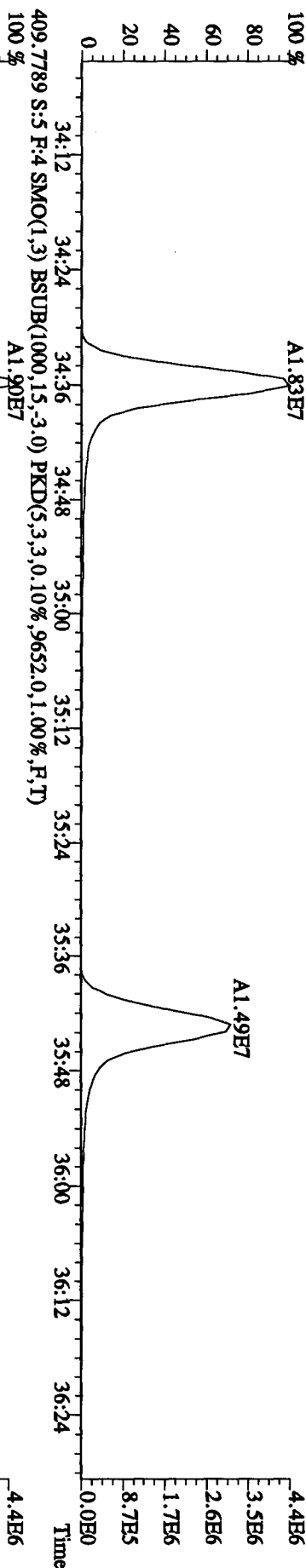
File:01MY104D5 #1-317 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:LX3LO-1-AC :GDD160000-253C Exp:DIOXINRES8290A
 373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,732.0,1.00%,F,T)



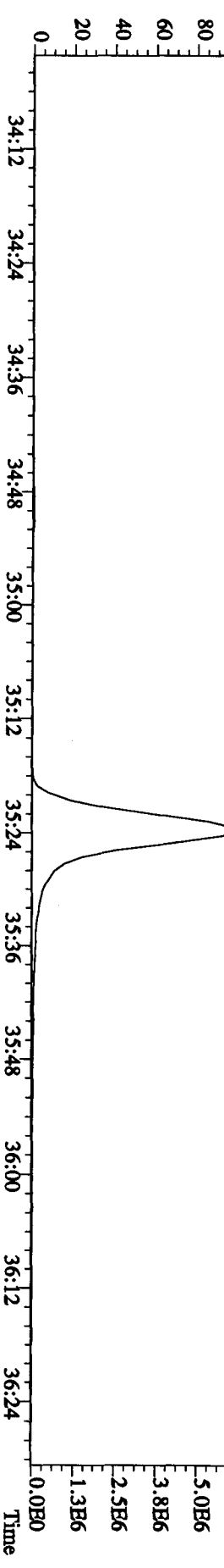
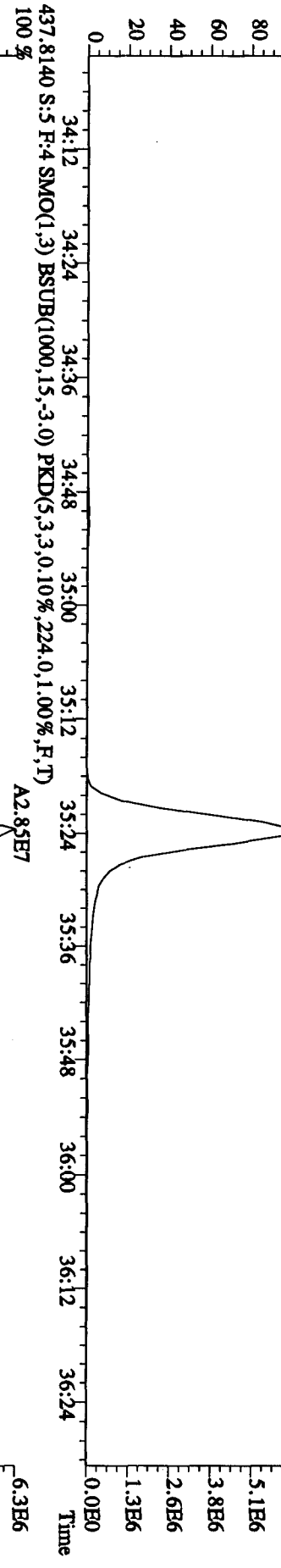
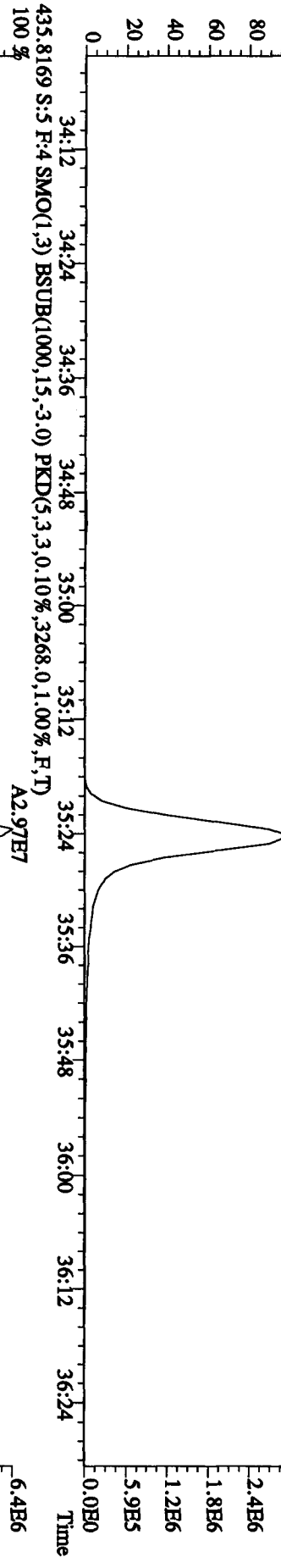
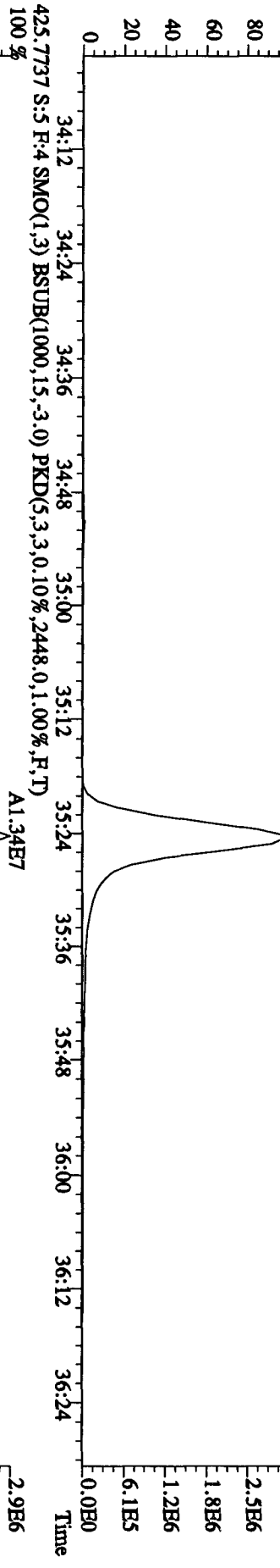
File:01MY104D5 #1-317 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:LX3LQ-1-AC :GOD160000-253C Exp:DIOXINRES8290A
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,84.0,1.00%,F,T)



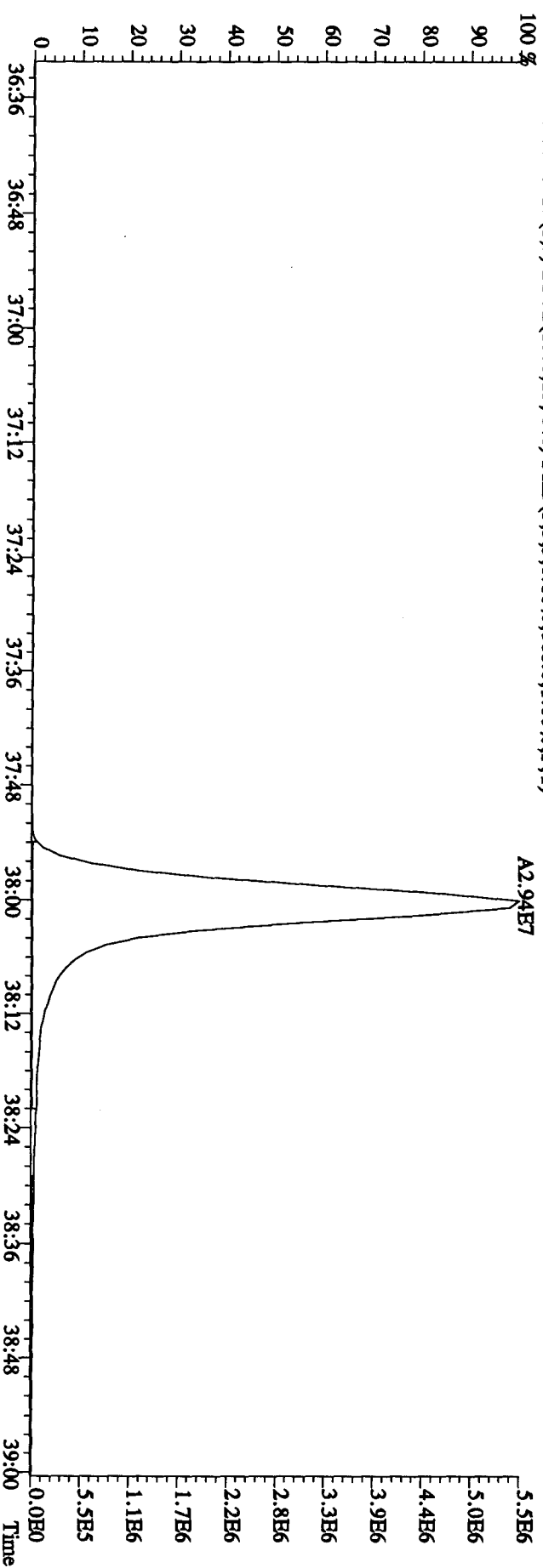
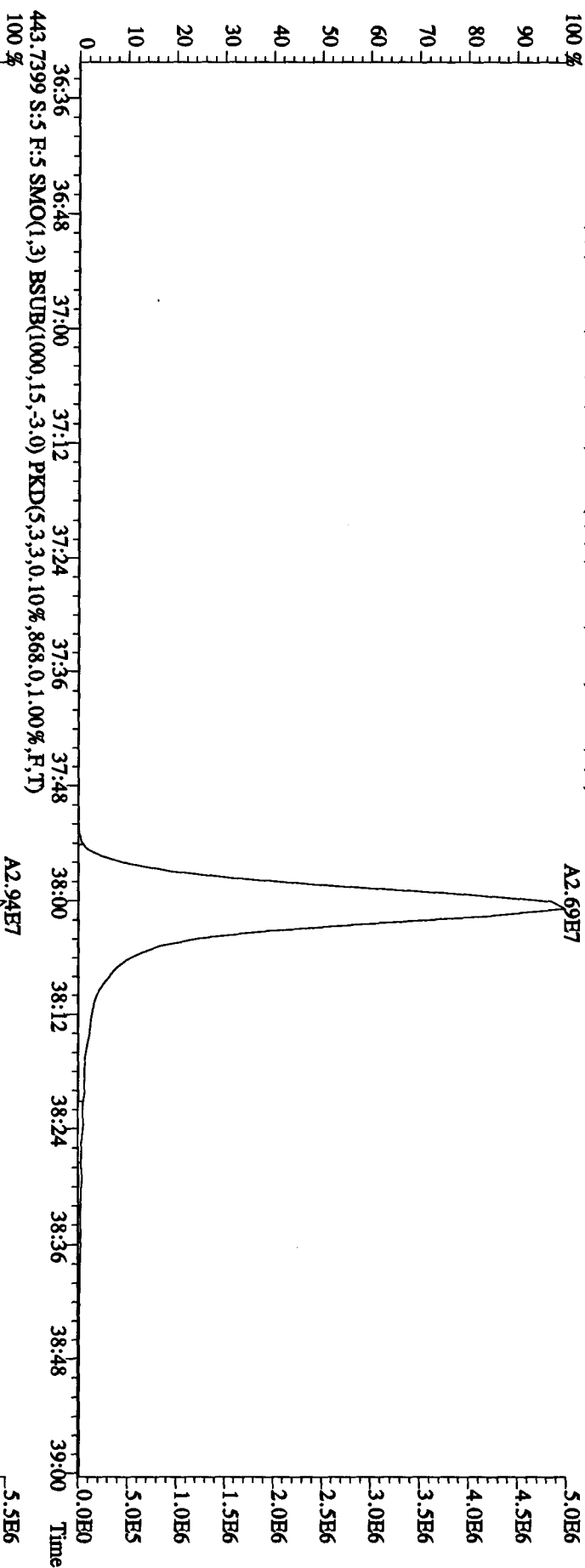
File:01MY104D5 #1-198 Acq: 1-MAY-2010 11:44:27 GC/MS + Voltage SIR Autospec-Ultimate
 Sample#5 Text:LX31Q-1-AC :G0D160000-253C Exp:DIOXINRES8290A
 407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9652,0,1,00%,F,T)
 100 % A1.83E7



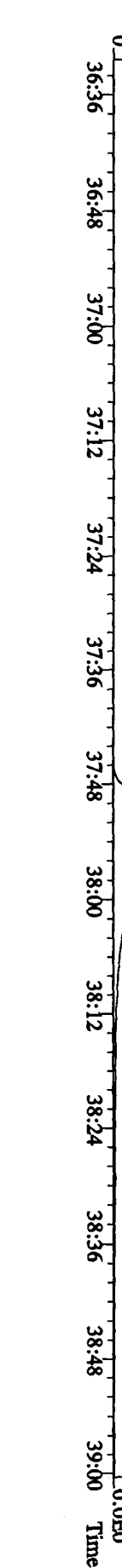
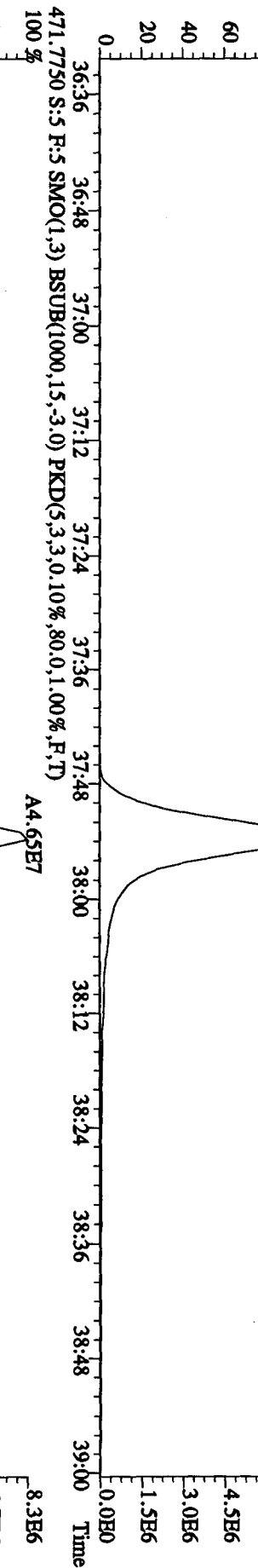
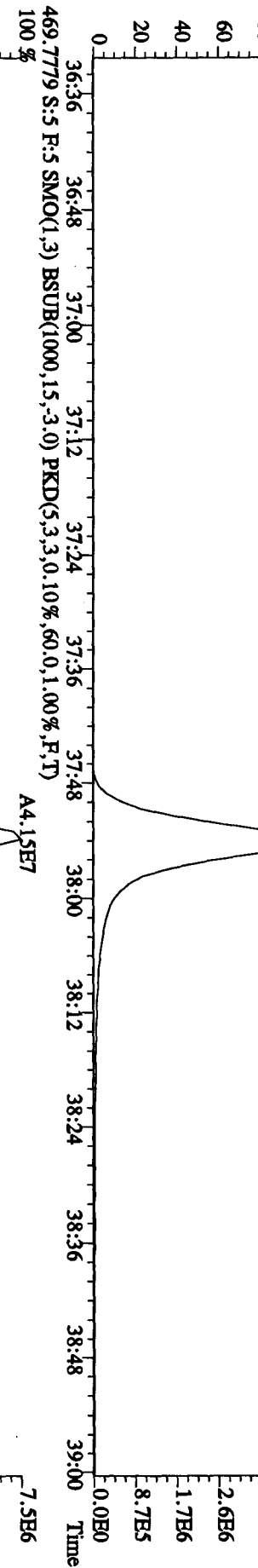
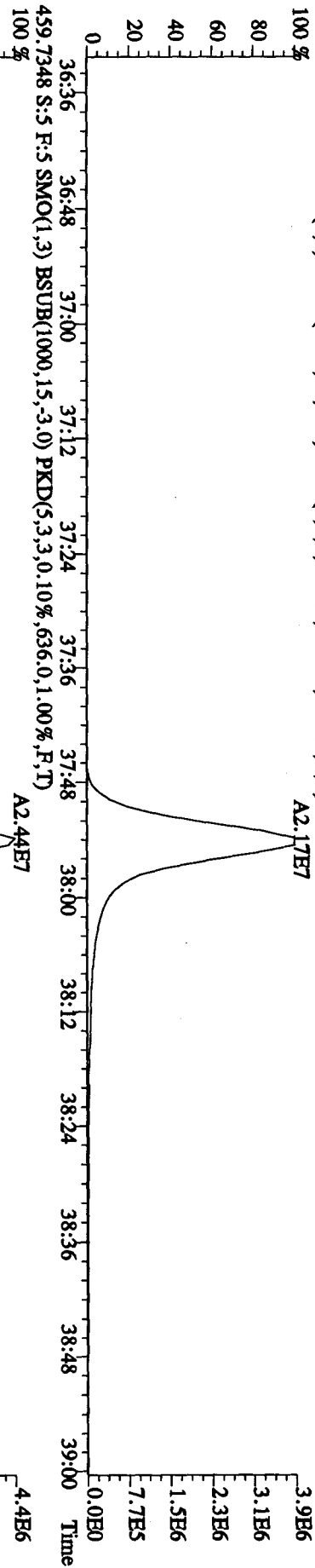
File:01MAY104D5 #1-198 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:LX3LQ-1-AC :G0D160000-253C Exp:DIOXINRES8290A
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3240.0,1.00%,F,T) 100 %



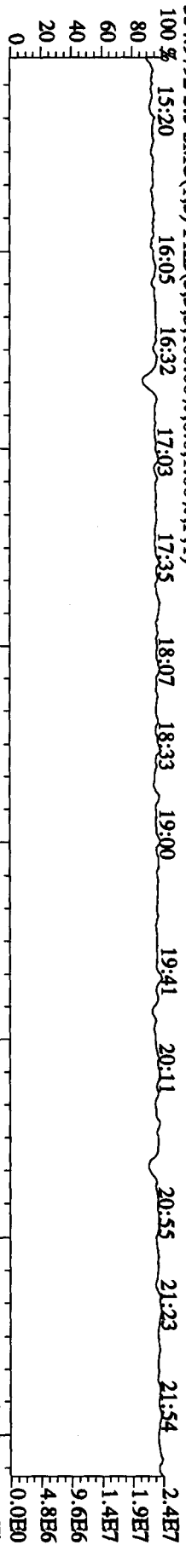
File:01MAY104D5 #1-190 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimate
Sample#5 Text:LX3LQ-1-AC :G0D160000-253C Exp:DIOXINRES8290A
441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,560,0,1.00%,F,T)
100 %



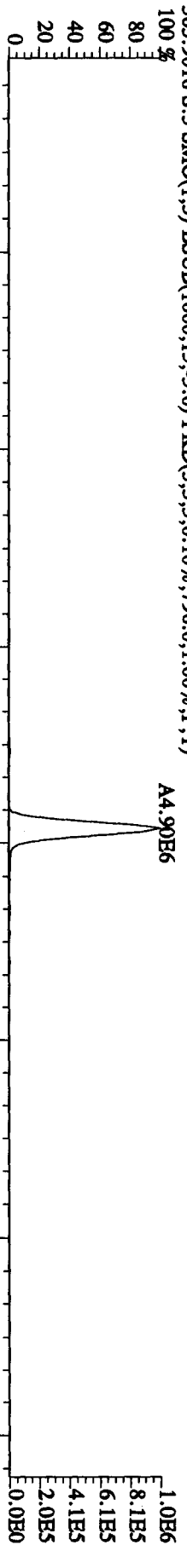
File:01MAY10AD5 #1-190 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:LX3LQ-1-AC :G0D160000-253C Exp:DIOXINRES8290A
 457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4744.0,1.00%,F,T)
 100%



File: 01MAY104D5 #1-434 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimat
 Sample#5 Text: LXLO-1-AC :GOD160000-253C Exp: DIOXINRES8290A
 354.9792 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 15:20 16:05 16:32 17:03 17:35 18:07 18:33 19:00 19:41 20:11 20:55 21:23 21:54



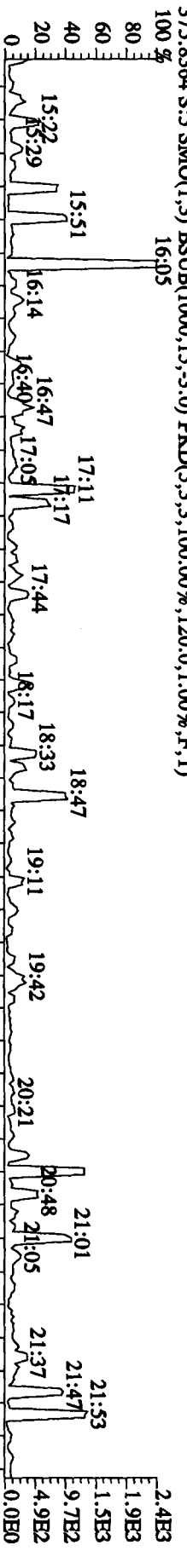
303.9016 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,796.0,1.00%,F,T)
 100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00



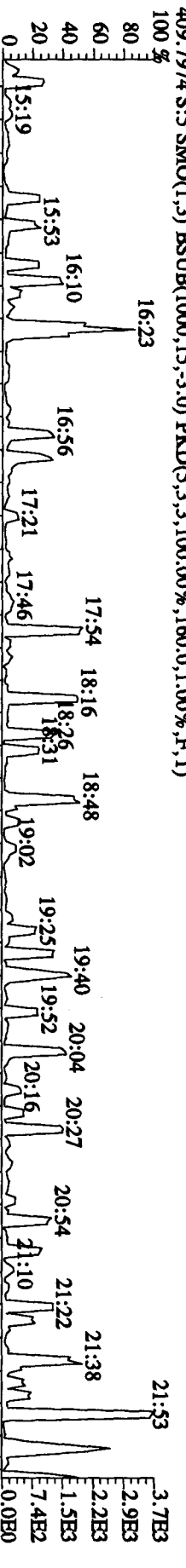
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2080.0,1.00%,F,T)
 100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00



375.8364 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,120.0,1.00%,F,T)
 100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00

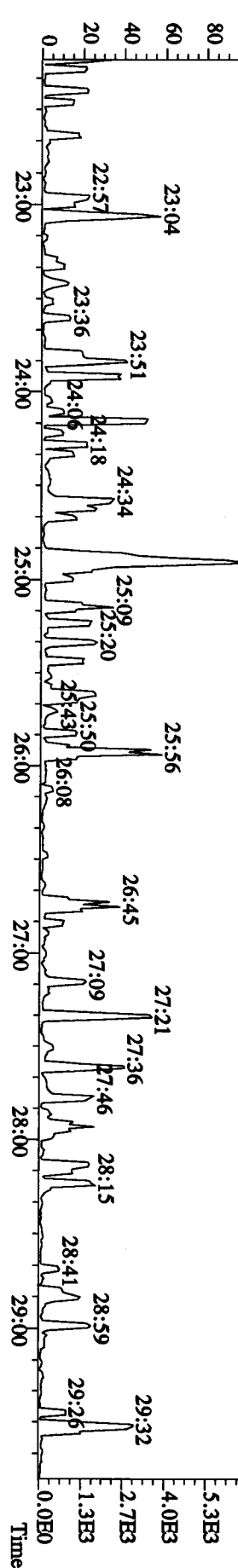
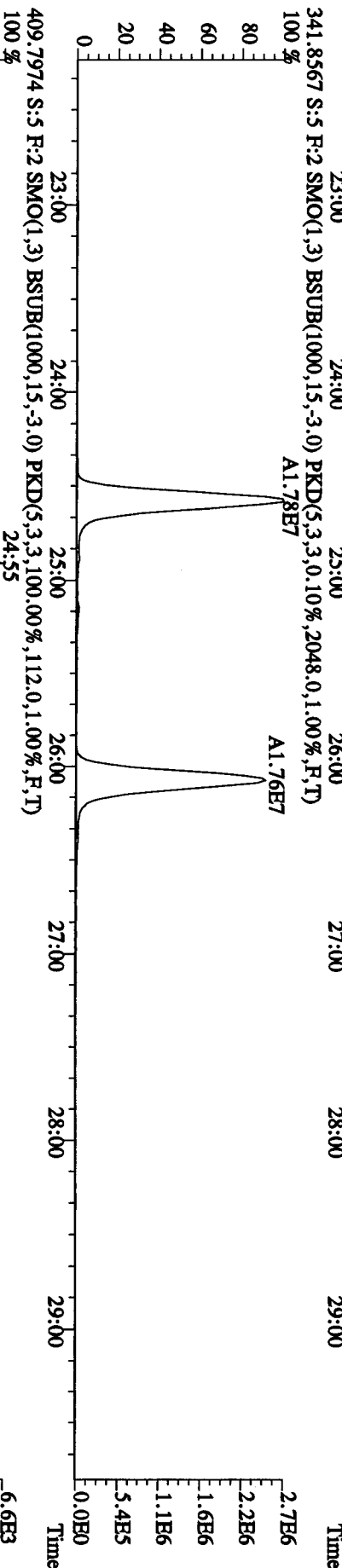
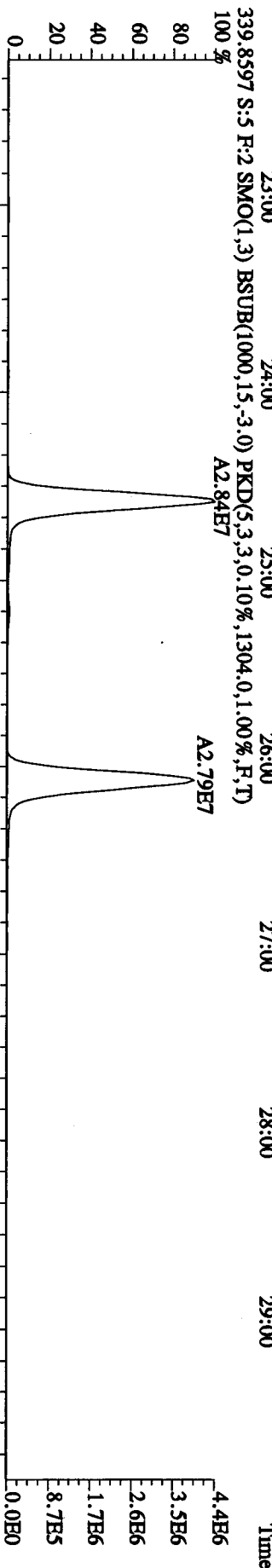
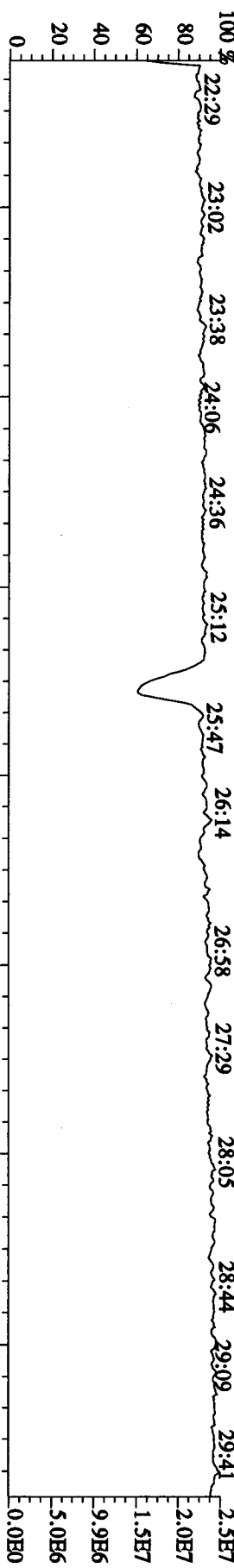


409.7974 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,160.0,1.00%,F,T)
 100% 16:00 17:00 18:00 19:00 20:00 21:00 22:00

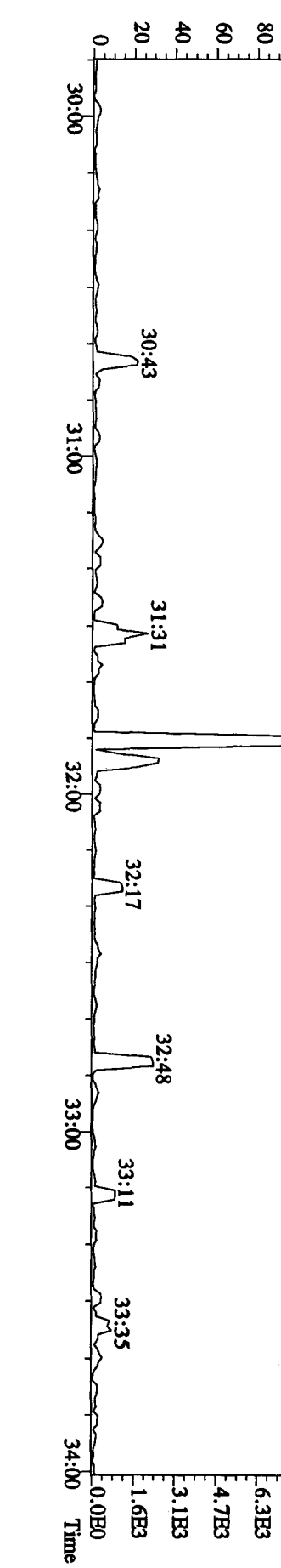
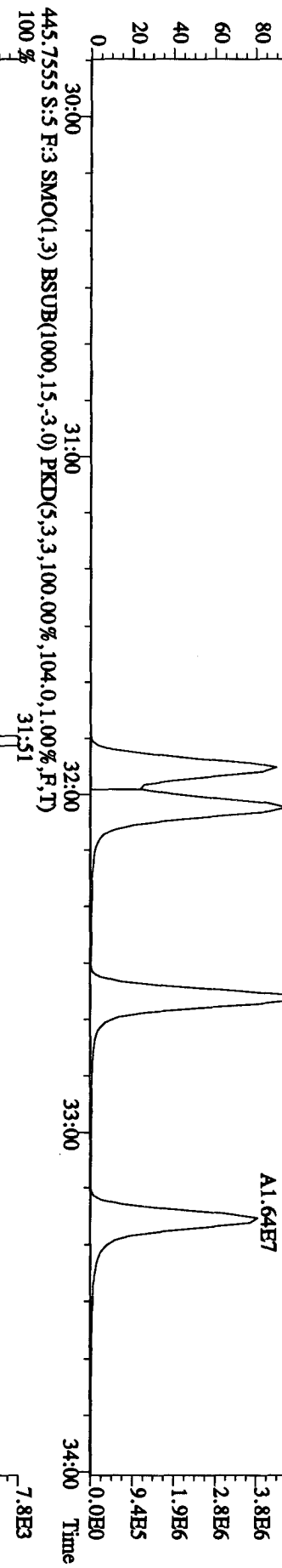
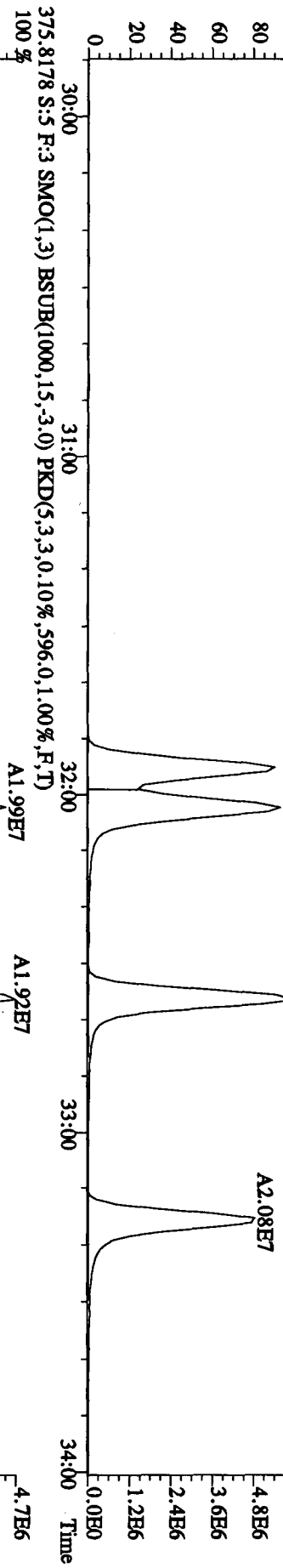
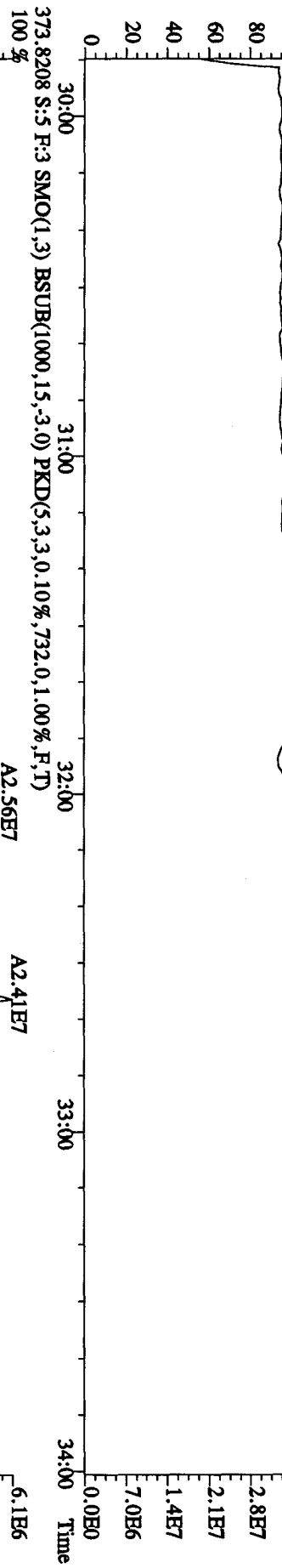


Time

File:01MY104D5 #1-604 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:LX3LQ-1-AC :G0D16000-253C Exp:DIOXINRES8290A



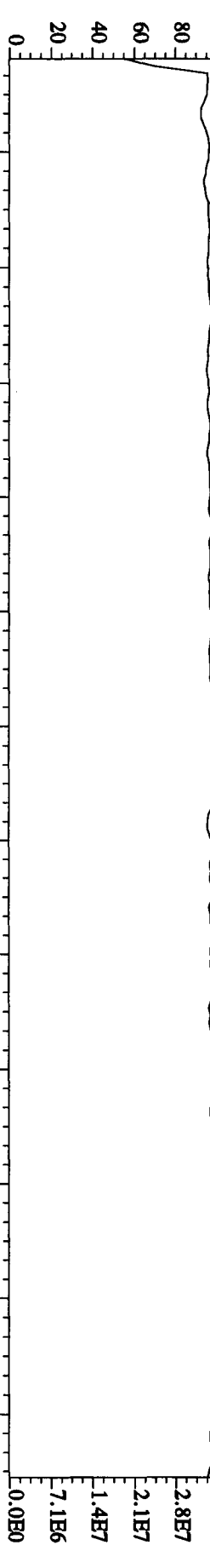
File:01M\Y104D5 #1-317 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:LX3LO-1-AC :GOD160000-253C Exp:DIOXINRES8290A
 430.9728 S:5 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 30:00 30:15 30:29 30:44 31:00 31:17 31:34 31:58 32:21 32:39 32:55 33:09 33:39



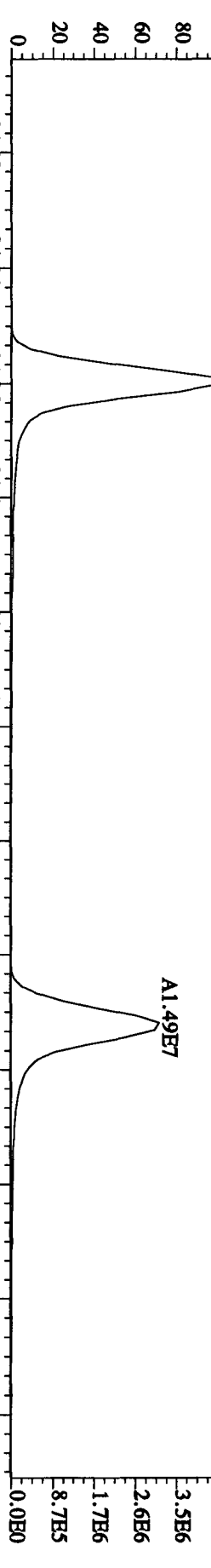
File:01MAY104D5 #1-198 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimate

Sample#5 Text:LX3LQ-1-AC :GOD160000-253C Exp:DIOXINRES8290A

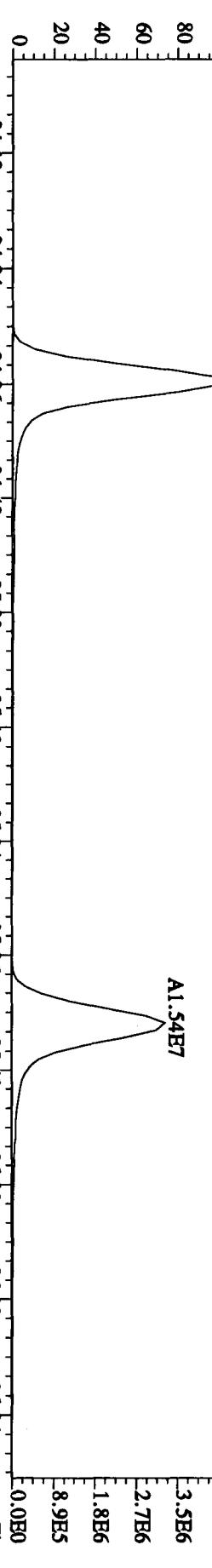
430.9728 S:5 F:4 SMO(1,3) PKD(5,3,3,100,00%,0,0,1,00%,F,T)



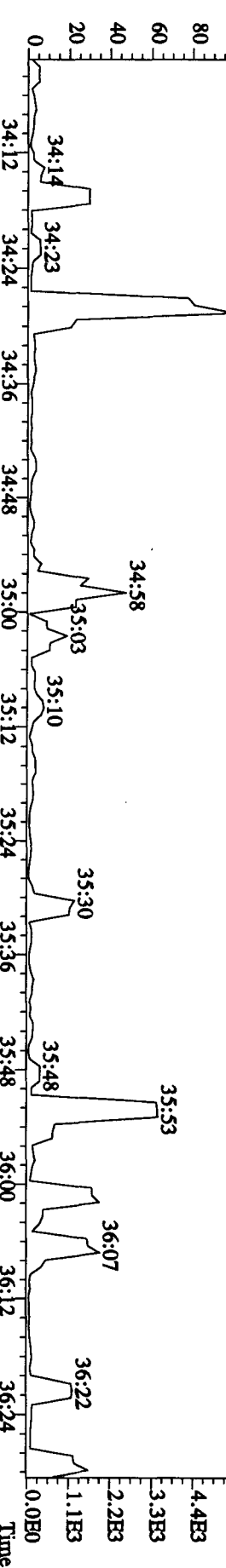
407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3144,0,1,00%,F,T)



409.7789 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9652,0,1,00%,F,T)



479.7165 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100,00%,136,0,1,00%,F,T)



File:01MAY104D5 #1-190 Acq: 1-MAY-2010 11:44:27 GC EI+ Voltage SIR Autospec-Ultimate

Sample#5 Text:LX31Q-1-AC :GOD160000-253C Exp:DIOXINRES8290A

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

100%

36:39 36:55 37:04 37:15 37:30 37:38

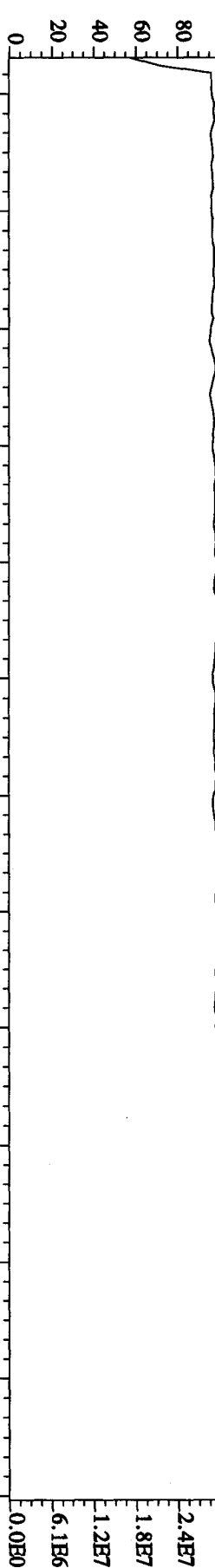
37:54 38:02

38:18

38:42

38:56

3.0E7

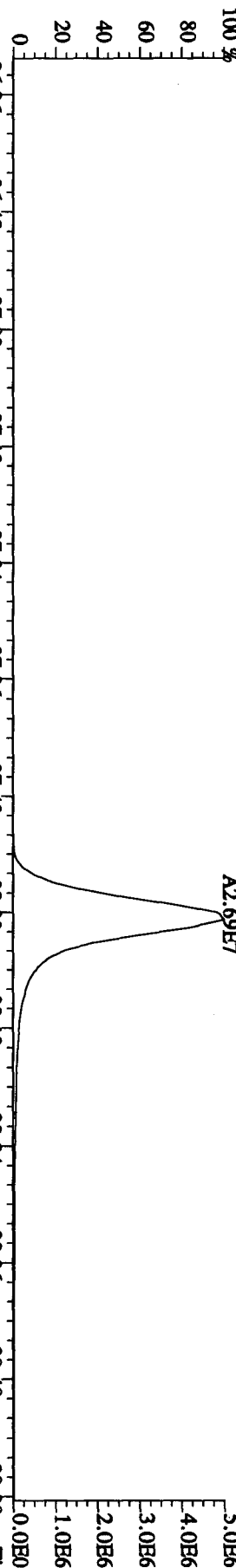


441.7428 S.S.F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,560,0,1.00%,F,T)

100%

A2.69E7

5.0E6

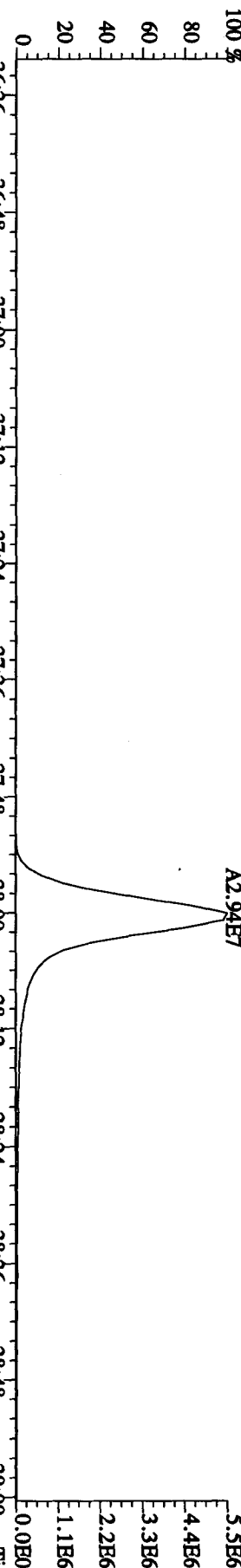


443.7399 S.S.F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,868,0,1.00%,F,T)

100%

A2.94E7

5.5E6

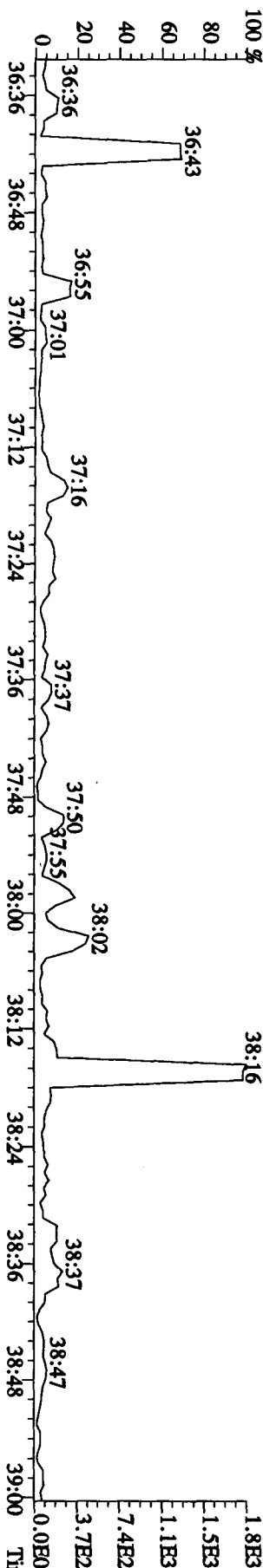


513.6775 S.S.F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,100.00%,92.0,1.00%,F,T)

100%

1.8E3

1.8E3

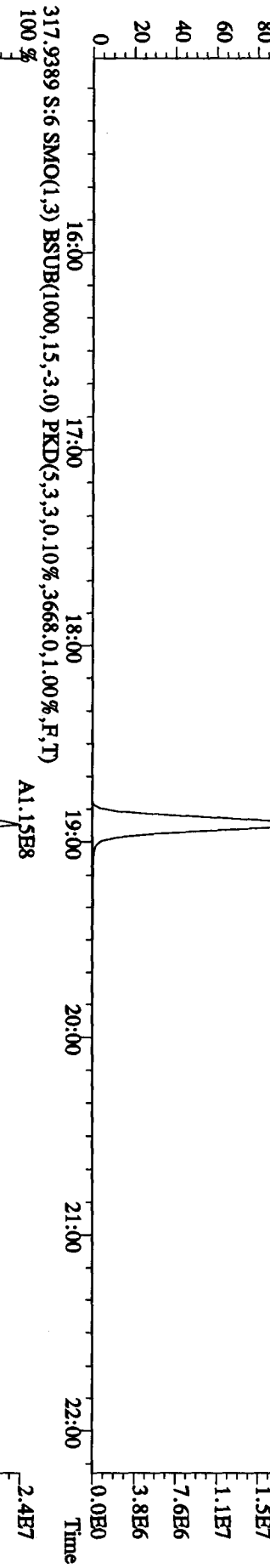
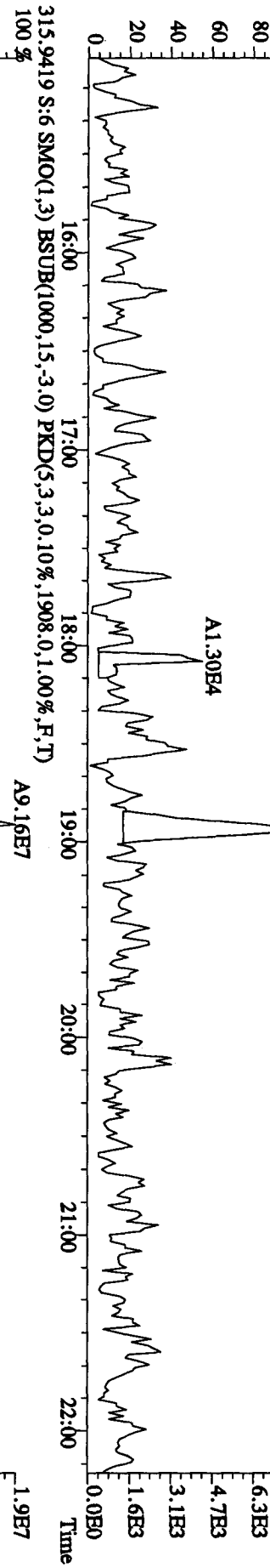
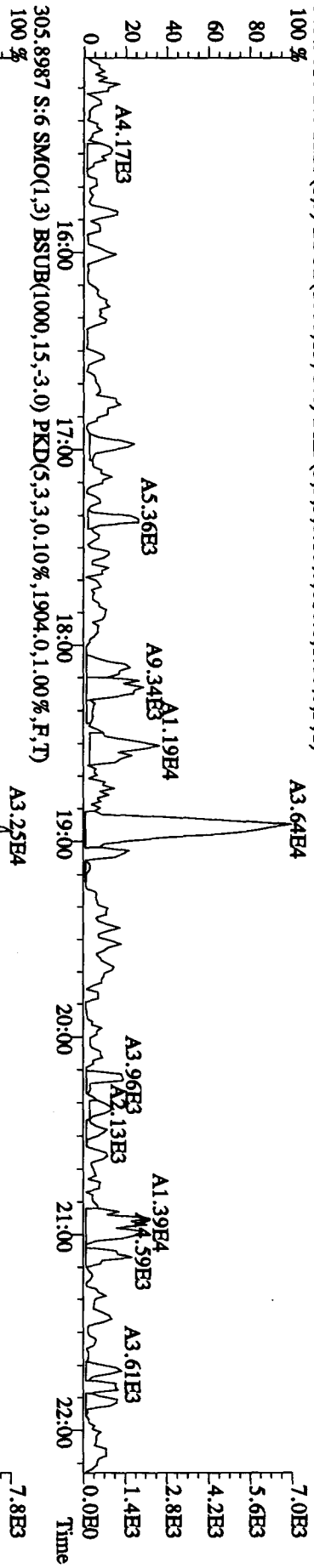


Run text: LXWV7-1-AA Sample text: LXWV7-1-AA :GOD130519-1
 Run #9 Filename: 01MY104D5 S: 6 I: 1 Results: 01MY104D58290A
 Acquired: 1-MAY-10 12:28:29 Processed: 2-MAY-10 09:22:48
 Run: 01MY104D5 Analyte: 8290AHRS Cal: 8290A0412104D5
 Sample size: 1.03 L

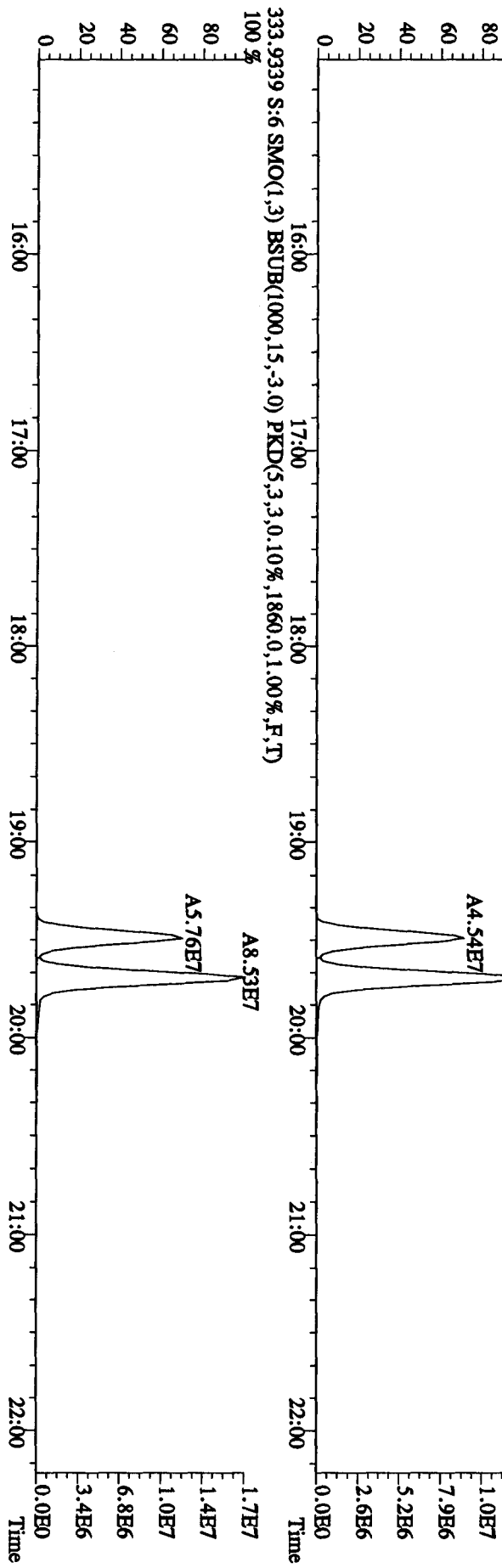
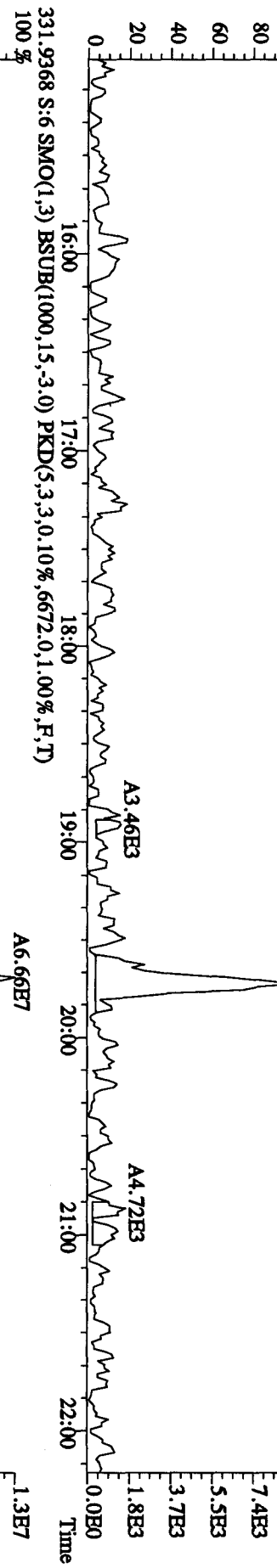
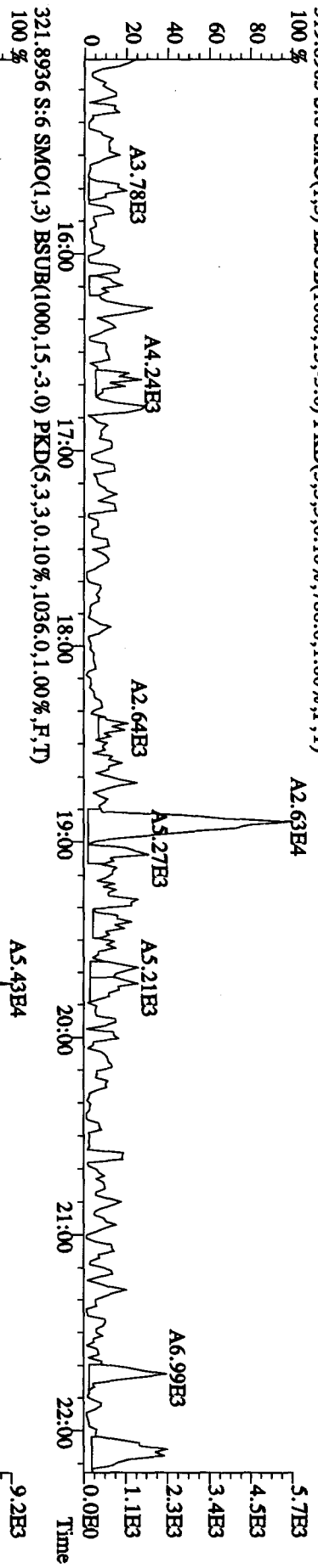
Vg 5.5.10

Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	103030000	0.79 y	19:30	-	74.9331	-	-	n
13C-2,3,7,8-TCDF	206725100	0.80 y	18:55	1.52	1276.6291	0.5006	66.0	n
2,3,7,8-TCDF	57504	1.12 n	18:55	0.95	0.5694	0.3617	-	n
Total TCDF	71839	0.48 n	18:07	0.95	0.7114	0.3617	-	n
13C-2,3,7,8-TCDD	151846800	0.78 y	19:41	0.95	1501.5877	1.2272	77.6	n
2,3,7,8-TCDD	11985	0.10 n	19:43	1.02	0.1496	0.3459	-	n
Total TCDD	18108	7.62 n	18:54	1.02	0.2260	0.3459	-	n
37Cl-2,3,7,8-TCDD	156688400	1.00 y	19:42	2.26	650.7357	0.1512	84.1	n
13C-1,2,3,7,8-PeCDF	159212700	1.57 y	24:34	1.05	1423.5734	0.9422	73.6	n
1,2,3,7,8-PeCDF	82544	1.38 y	24:35	1.04	0.9603	0.3228	-	n
2,3,4,7,8-PeCDF	54347	2.15 n	26:04	0.98	0.6726	0.3433	-	n
Total F2 PeCDF	364642	2.23 n	23:03	1.01	4.3674	0.3327	-	n
Total F1 PeCDF	59759	0.41 n	20:15	1.01	0.7167	0.3868	-	n
13C-1,2,3,7,8-PeCDD	113506600	1.57 y	26:52	0.67	1589.8961	0.3771	82.2	n
1,2,3,7,8-PeCDD	8790	0.65 n	26:52	0.98	0.1526	0.4452	-	n
Total PeCDD	76440	4.27 n	22:27	0.98	1.3272	0.4452	-	n
13C-1,2,3,7,8,9-HxCDD	73258100	1.24 y	33:05	-	68.9816	-	-	n
13C-1,2,3,4,7,8-HxCDF	114081700	0.52 y	31:55	1.02	1470.2270	2.8321	76.0	n
1,2,3,4,7,8-HxCDF	77026	1.65 n	31:56	1.21	1.0775	0.2808	-	n
1,2,3,6,7,8-HxCDF	76041	1.11 y	32:02	1.34	0.9606	0.2536	-	n
2,3,4,6,7,8-HxCDF	71853	1.44 n	32:36	1.22	0.9972	0.2786	-	n
1,2,3,7,8,9-HxCDF	64886	0.56 n	33:16	1.09	1.0075	0.3117	-	n
Total HxCDF	579479	0.87 n	30:32	1.22	8.0786	0.2797	-	n
13C-1,2,3,6,7,8-HxCDD	100766400	1.13 y	32:49	0.81	1649.0721	0.2689	85.2	n
1,2,3,4,7,8-HxCDD	40509	1.27 y	32:45	1.01	0.7727	0.3997	-	n
1,2,3,6,7,8-HxCDD	43041	1.58 n	32:50	1.11	0.7421	0.3613	-	n
1,2,3,7,8,9-HxCDD	51930	1.22 y	33:06	1.21	0.8249	0.3329	-	n
Total HxCDD	212514	1.10 y	31:55	1.11	3.6726	0.3626	-	n
13C-1,2,3,4,6,7,8-HpCDF	98899900	0.43 y	34:36	0.86	1514.3464	6.0258	78.3	n
1,2,3,4,6,7,8-HpCDF	140866	1.16 y	34:36	1.31	2.1046	0.2645	-	n
1,2,3,4,7,8,9-HpCDF	77469	0.94 y	35:43	1.03	1.4780	0.3378	-	n
Total HpCDF	398639	1.16 y	34:36	1.17	6.6040	0.2967	-	n
13C-1,2,3,4,6,7,8-HpCDD	88667400	1.05 y	35:24	0.70	1679.0237	4.0317	86.8	n
1,2,3,4,6,7,8-HpCDD	205383	1.21 n	35:24	1.07	4.1820	0.3881	-	n
Total HpCDD	354102	3.36 n	34:35	1.07	7.2102	0.3881	-	n
13C-OCDD	129037000	0.92 y	37:54	0.53	3207.2831	0.0399	82.9	n
OCDF	320897	0.98 y	38:01	1.45	6.6593	0.5866	-	n
OCDD	1440924	0.87 y	37:55	1.17	37.0582	0.8166	-	n

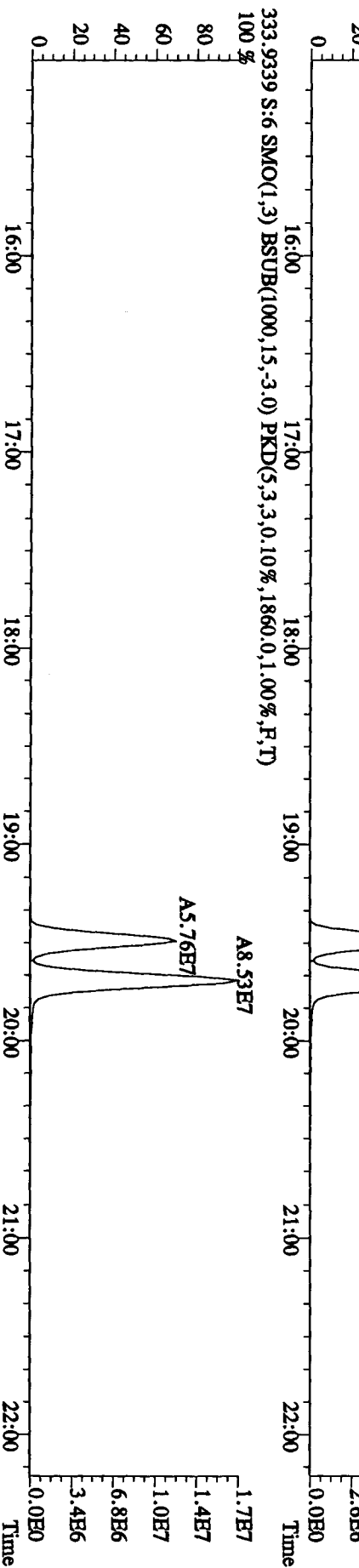
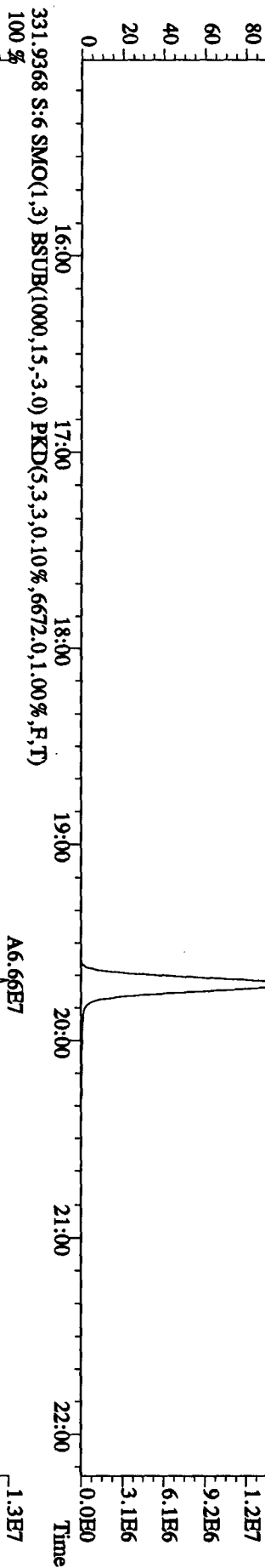
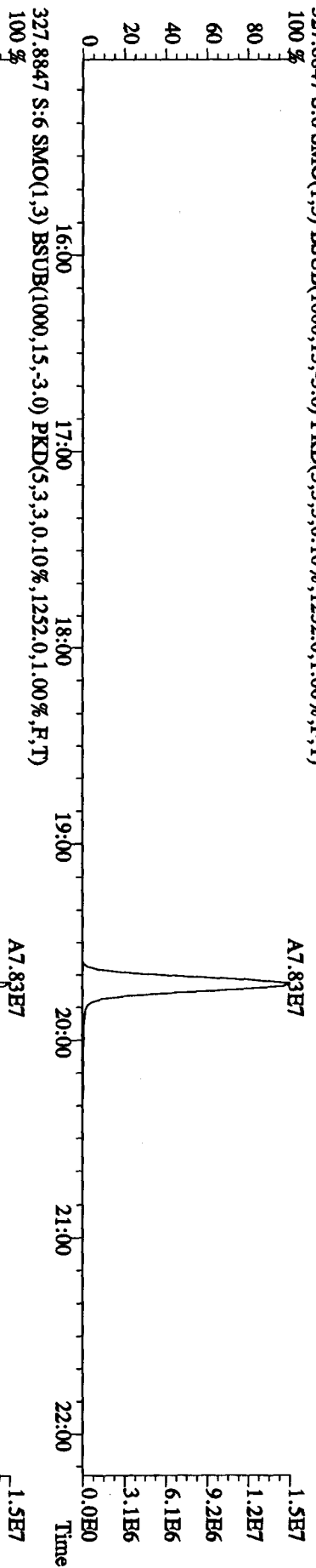
File:01MAY104D5 #1-435 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-Ultimat
 Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A
 305.8987 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1904.0,1.00%,F,T)
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)
 100 %



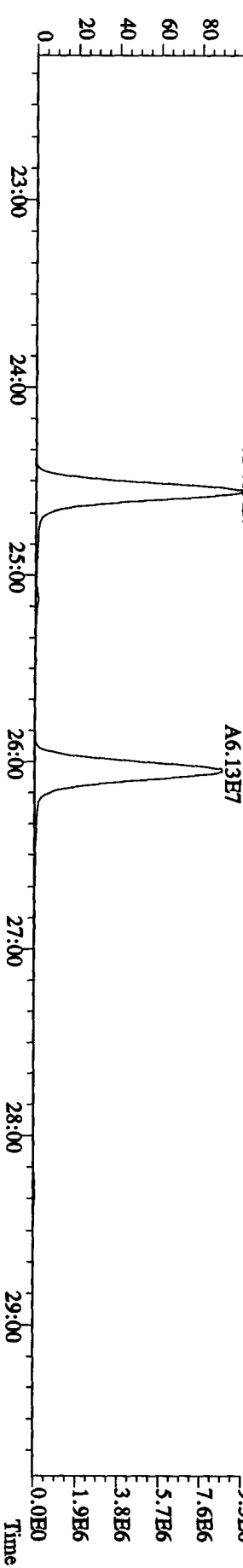
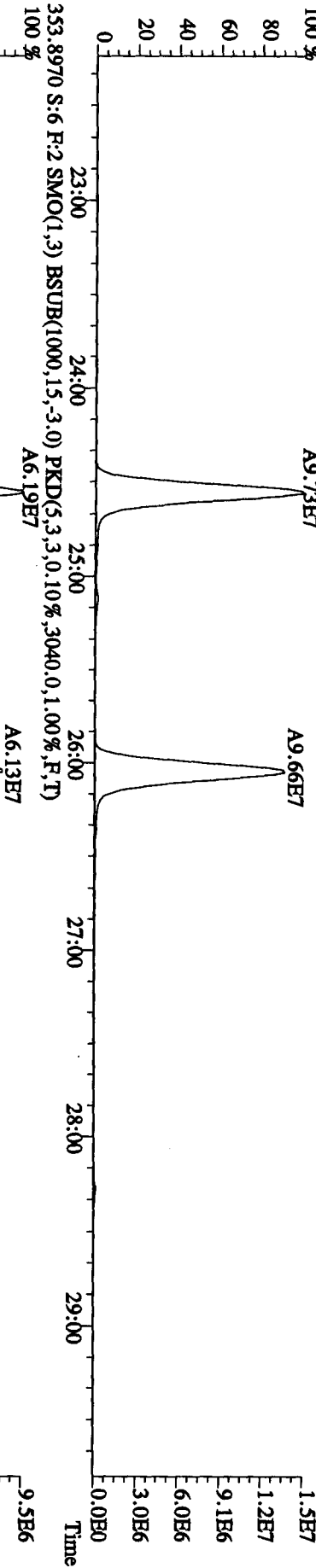
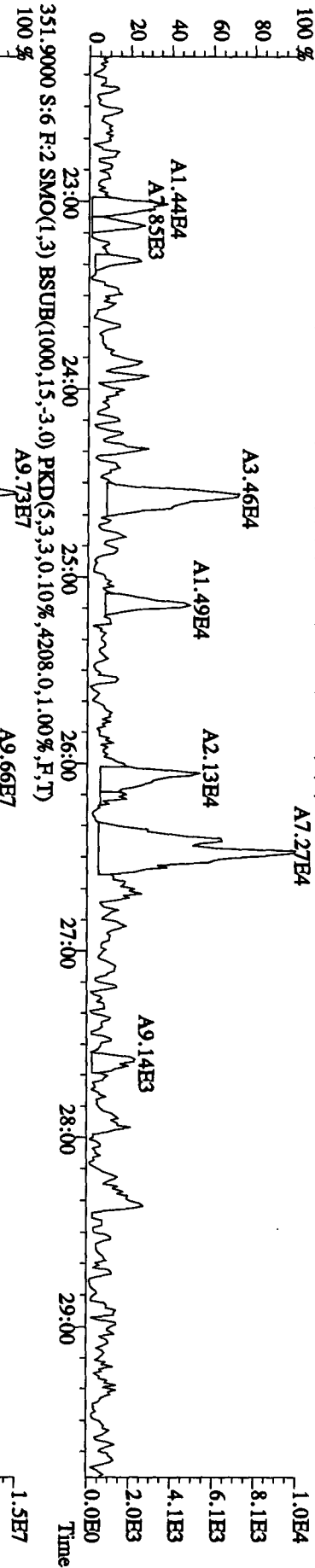
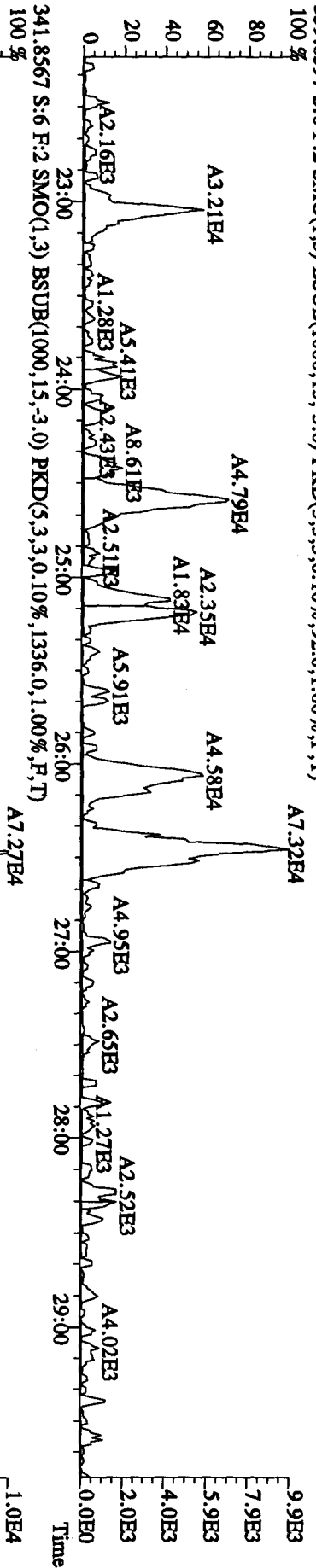
File:01MY104D5 #1-435 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage:51R Autospec-UltimaB
 Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,788.0,1.00%,F,T)



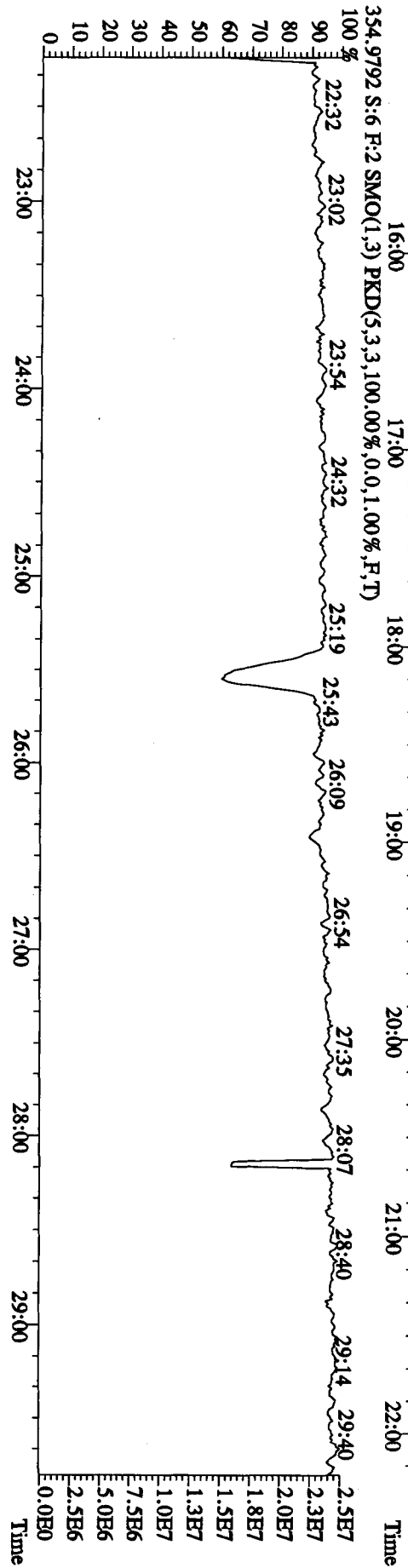
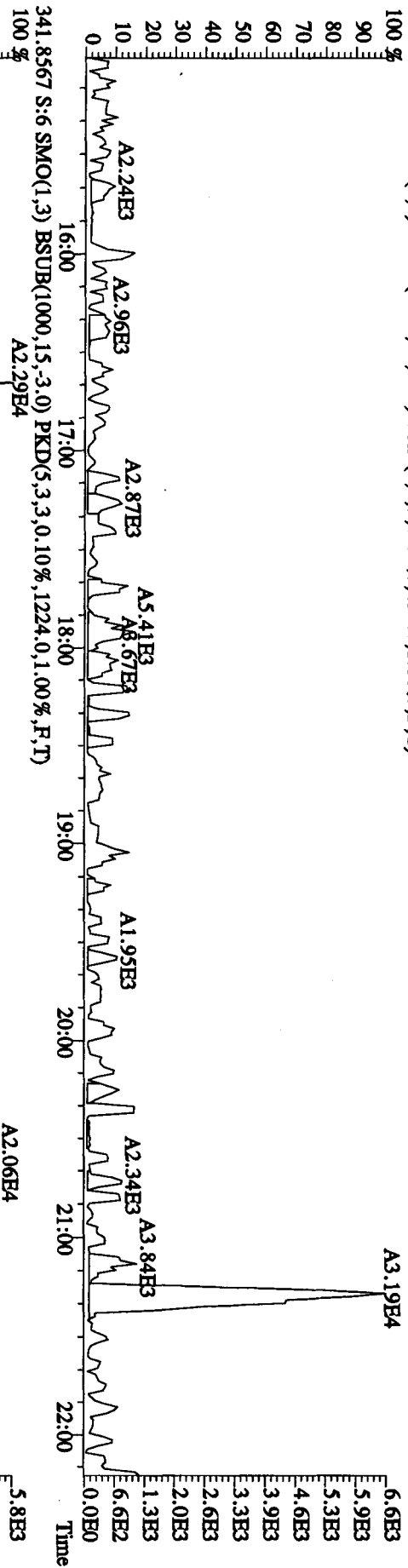
File:01MAY104D5 #1-435 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:LXWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1252.0,1.00%,F,T)



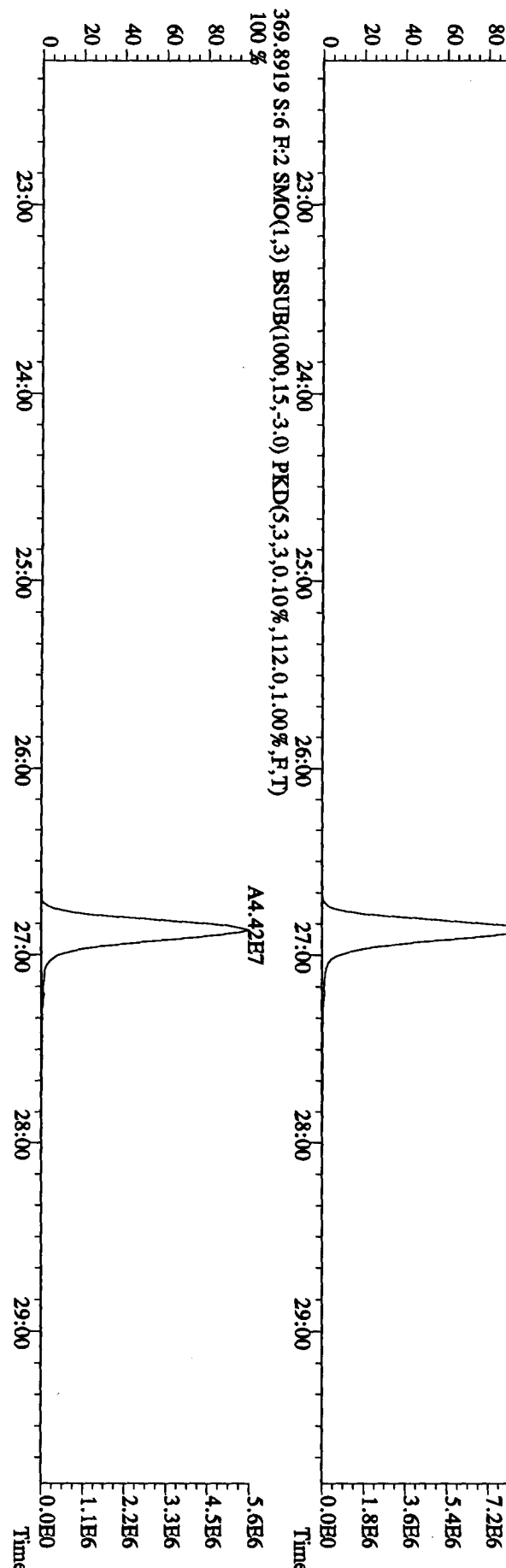
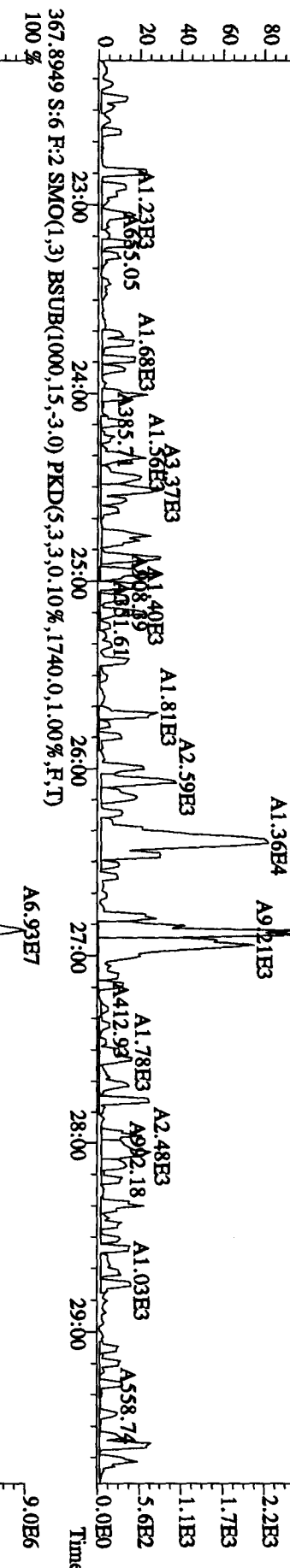
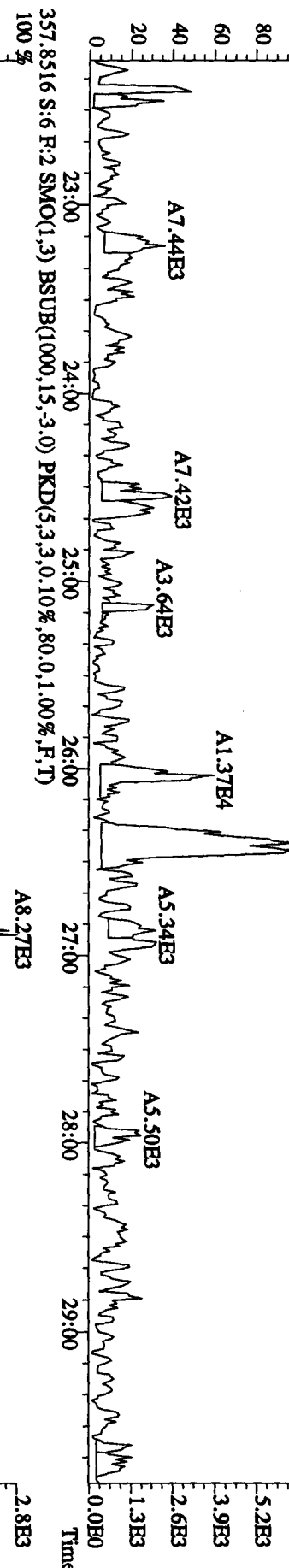
File:01MYY104D5 #1-604 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A
 339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,92.0,1.00%,F,T)



File:01MAY104D5 #1-435 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:1.XWV7-1-AA :G0D130519-1 Exp:DIOXINRES8290A
 339.8597 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,436,0,1,00%,F,T)

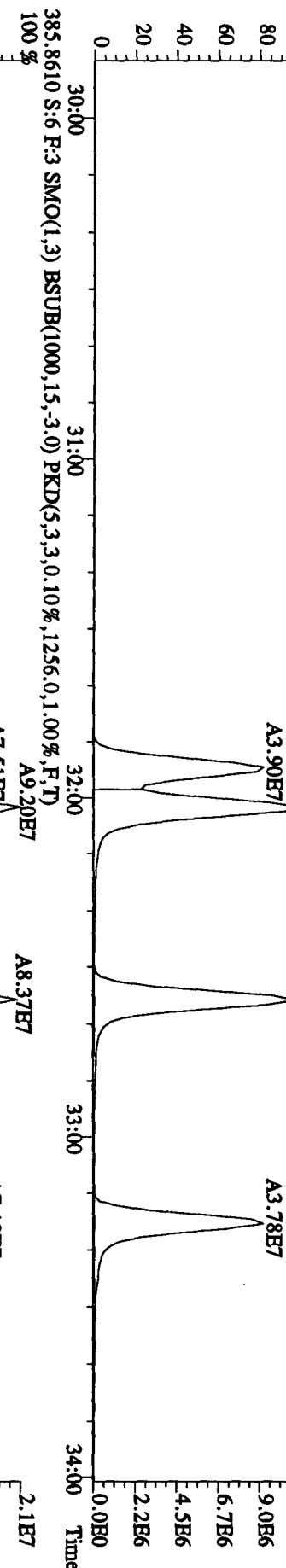
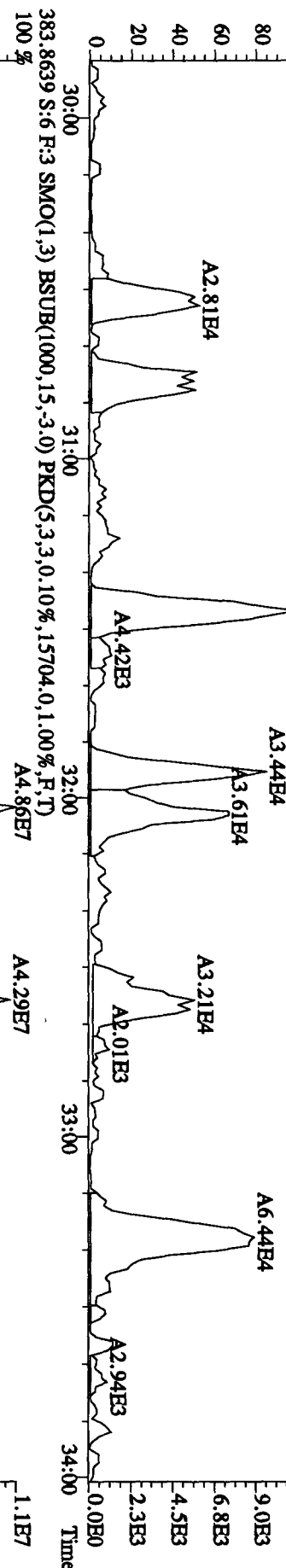
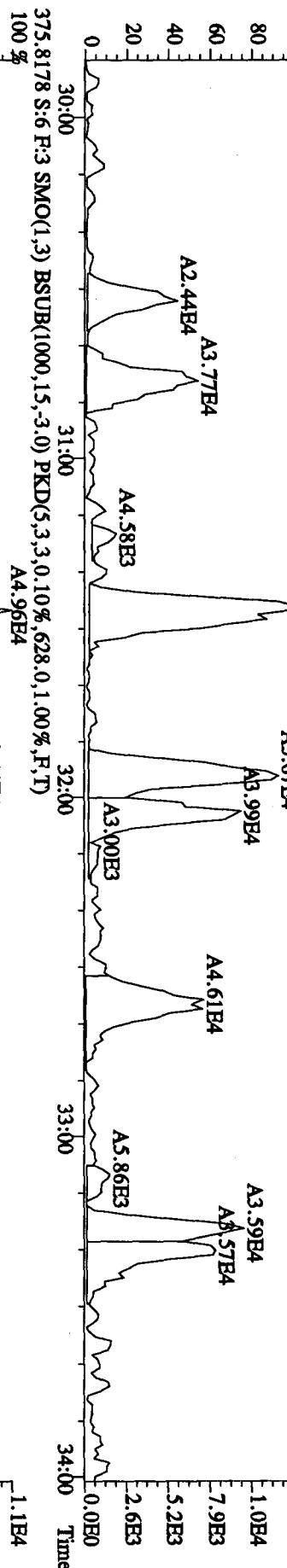


File:01MYY104D5 #1-604 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A
 355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1012,0,1,00%,F,T)

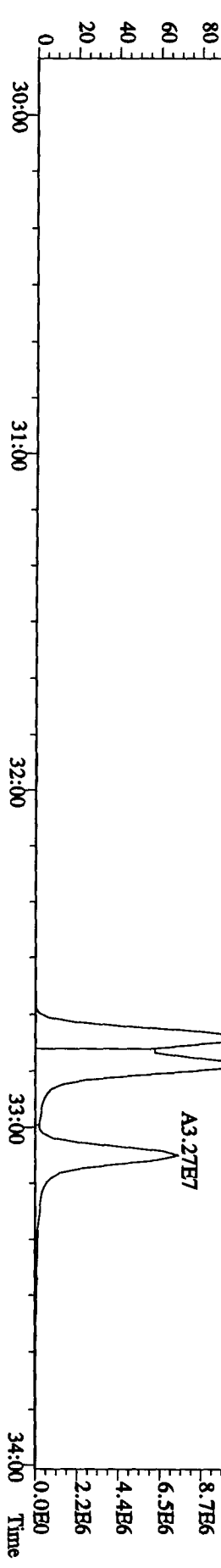
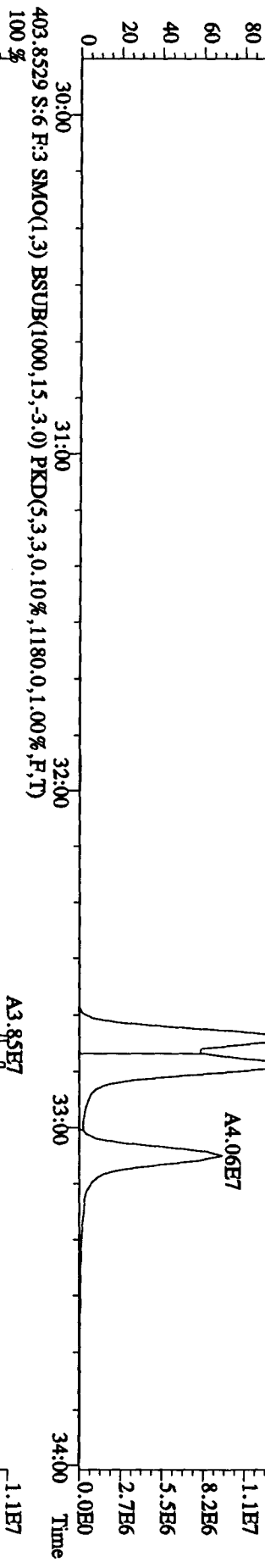
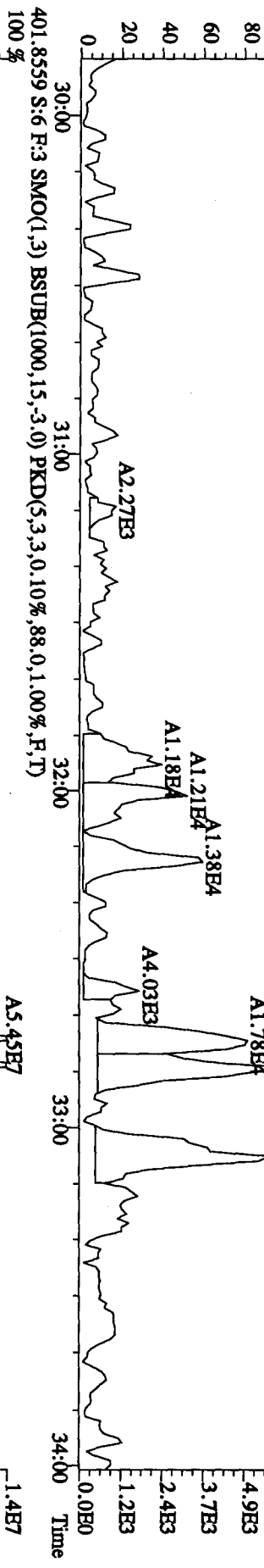
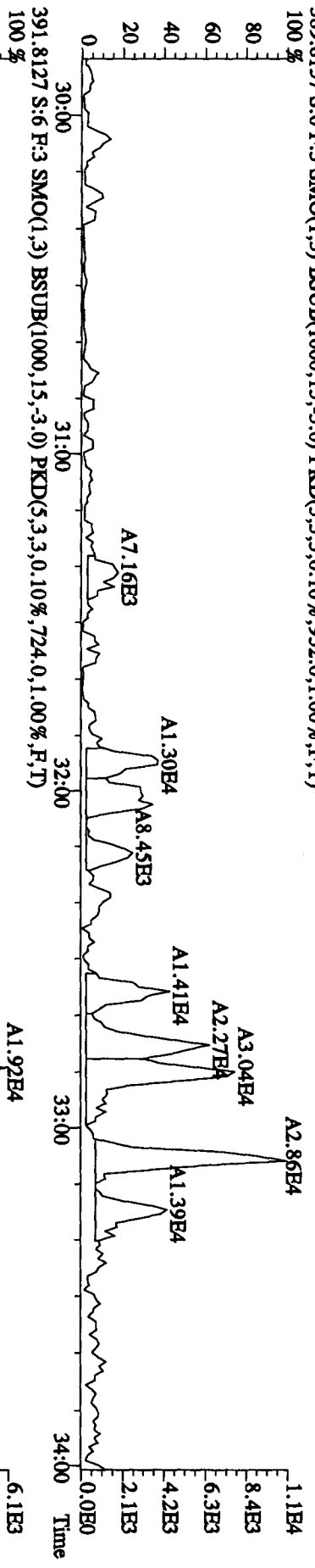


File:01MY104D5 #1-317 Acq: 1-MAY-2010 12:28:29 GC BI + Voltage SIR Autospec-UltimaB
Exp:DIOXINRES8290A

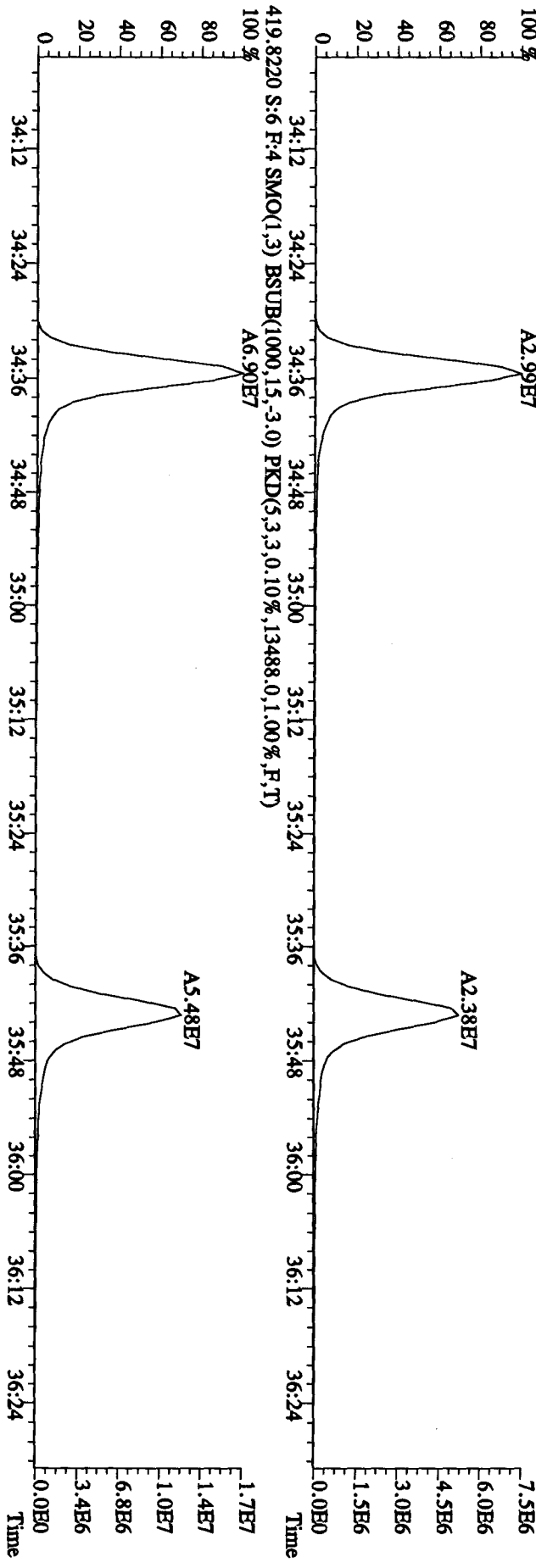
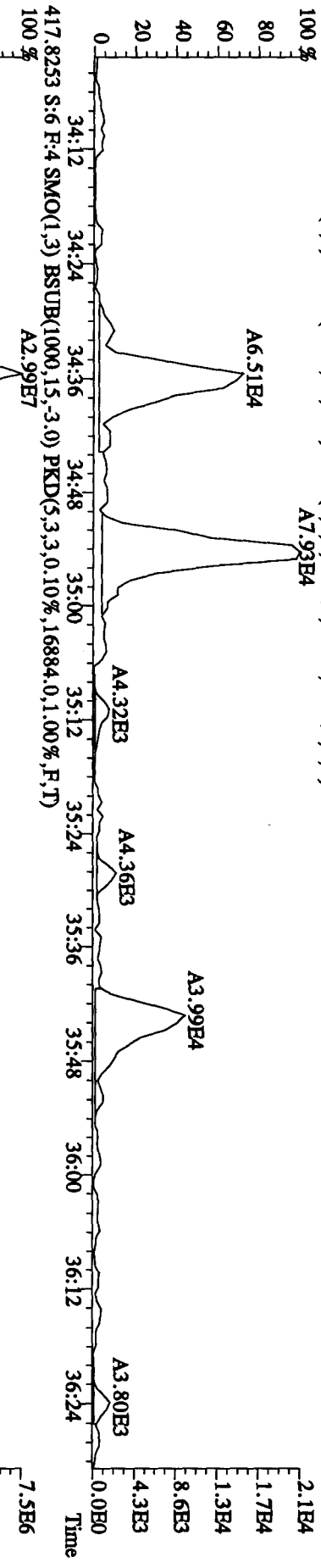
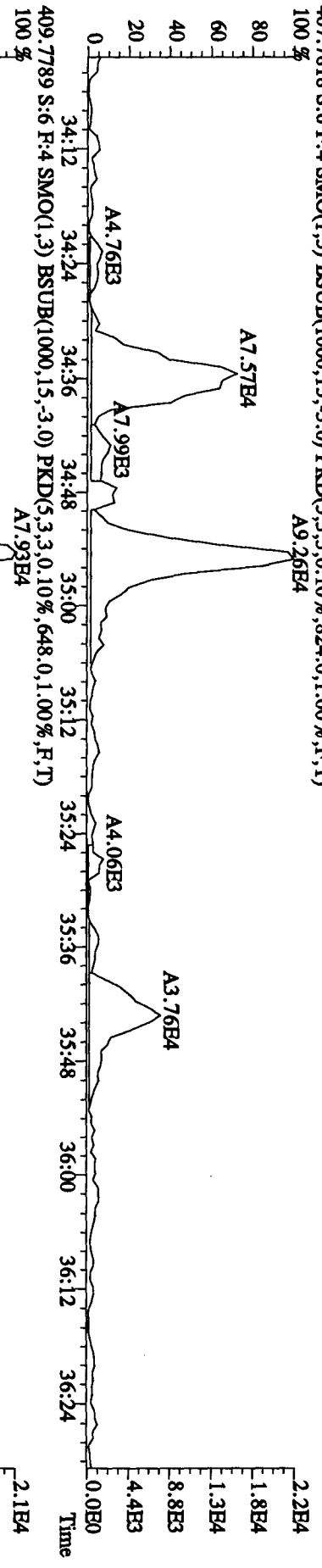
Sample#6 Text:LXWV7-1-AA :GOD130519-1
373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,948.0,1.00%,F,T)



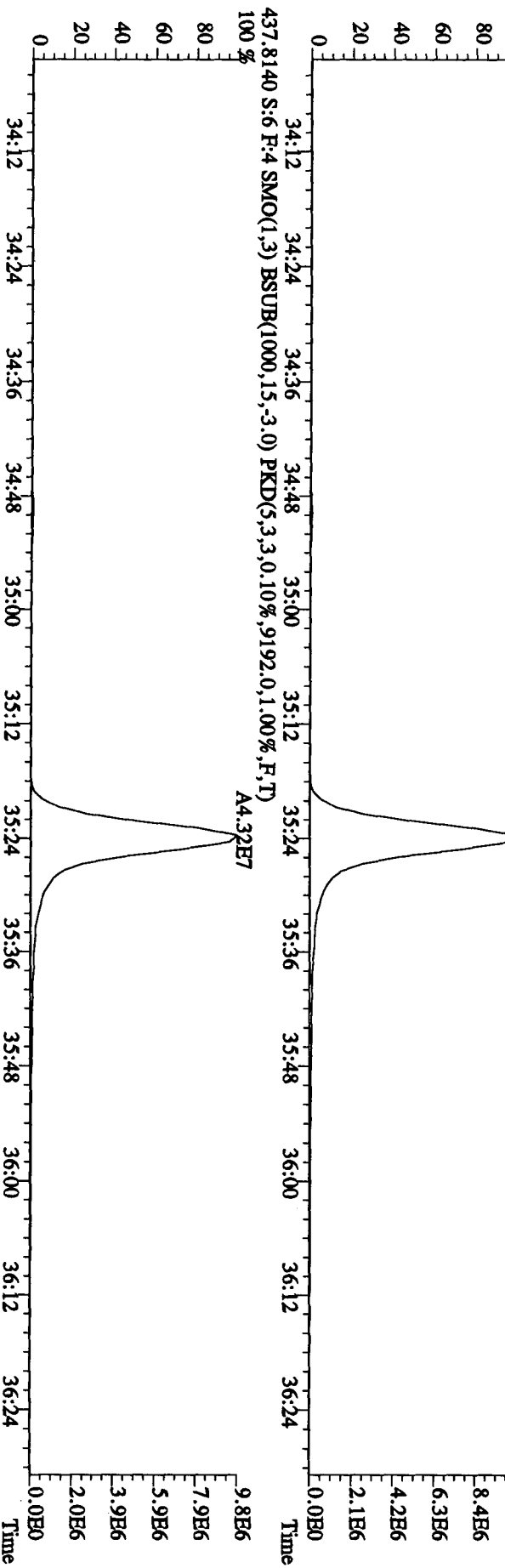
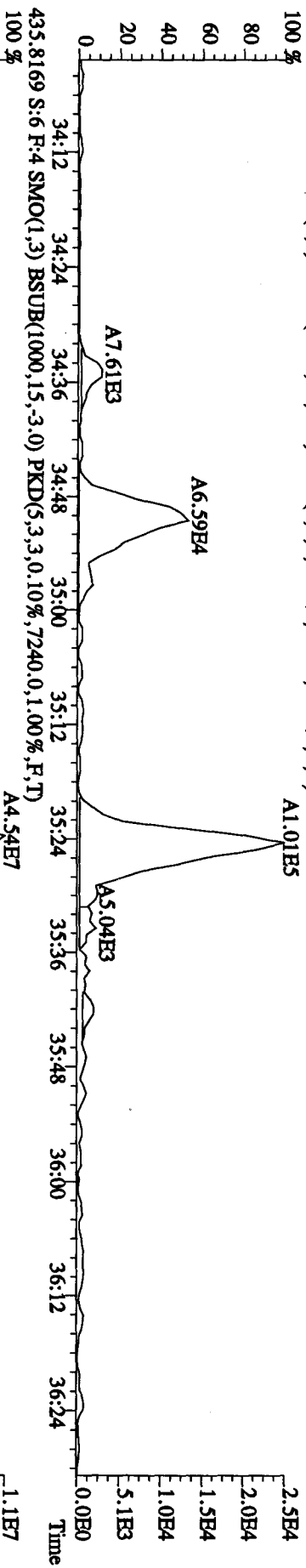
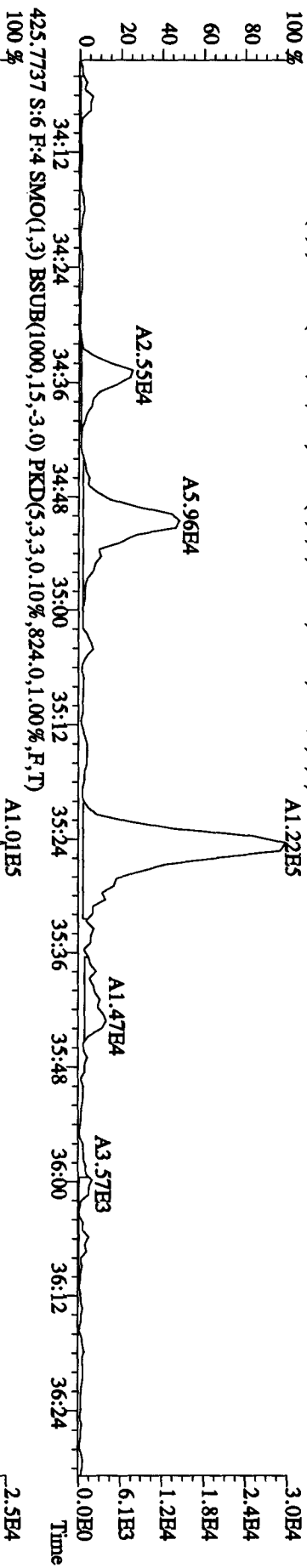
File:01MXY104D5 #1-317 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,952.0,1,1.00%,F,T)



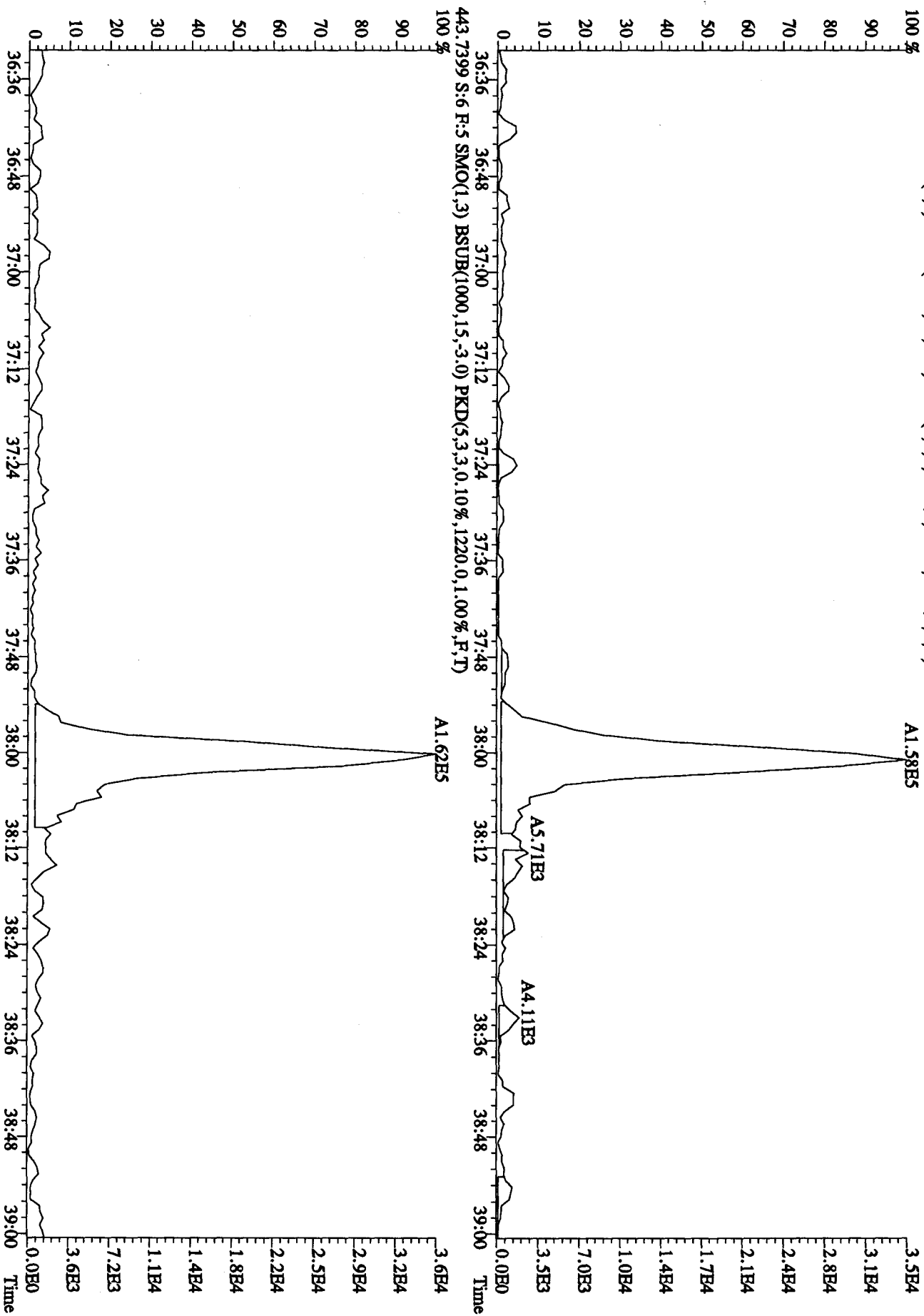
File:01MYY104D5 #1-198 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:LXWV7-1-AA :GDD130519-1 Exp:DIOXINRES8290A
 407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,824.0,1.00%,F,T)
 100%



File:01MY104D5 #1-198 Acq: 1-MAY-2010 12:28:29 GC EI + Voltage SIR Autospec-UltimaE
 Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A
 423.7737 S:6 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,636,0,1,00%,F,T)

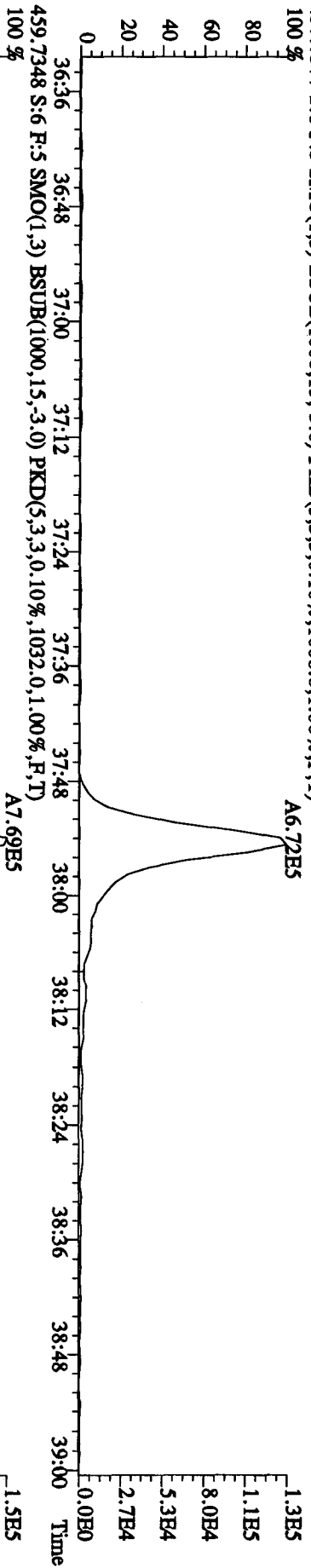


File:01MY104D5 #1-190 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A
 441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.596,0,1.00%,F,T)
 100 %

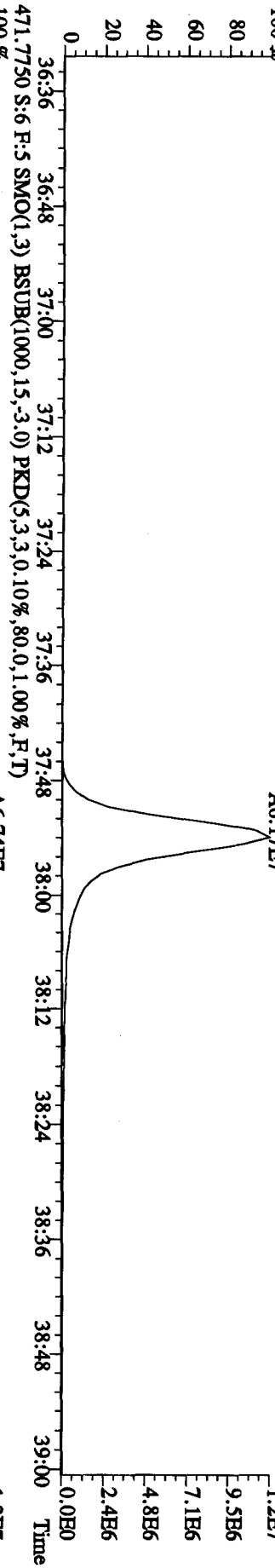


File:01MTY104D5 #1-190 Acq: 1-MAY-2010 12:28:29 GC EI + Voltage SIR Autospec-UltimaE
Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A

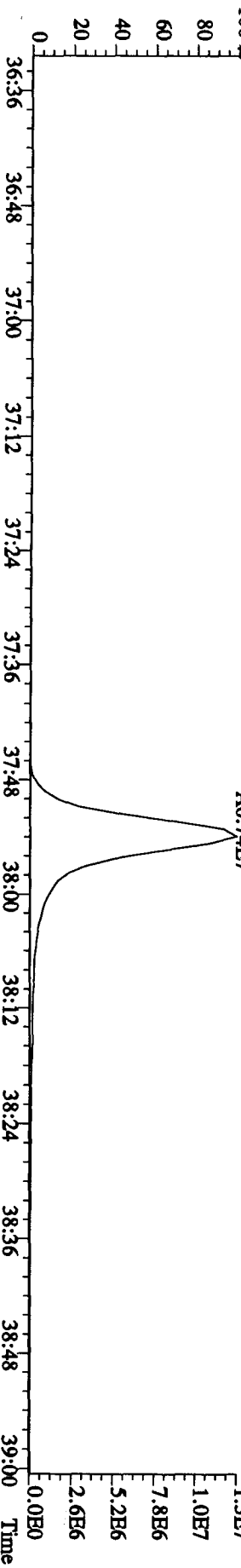
457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1008,0,1,00%,F,T)



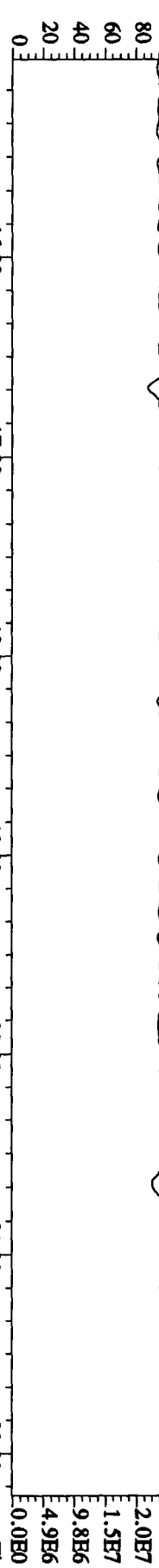
469.7779 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,44,0,1,00%,F,T)



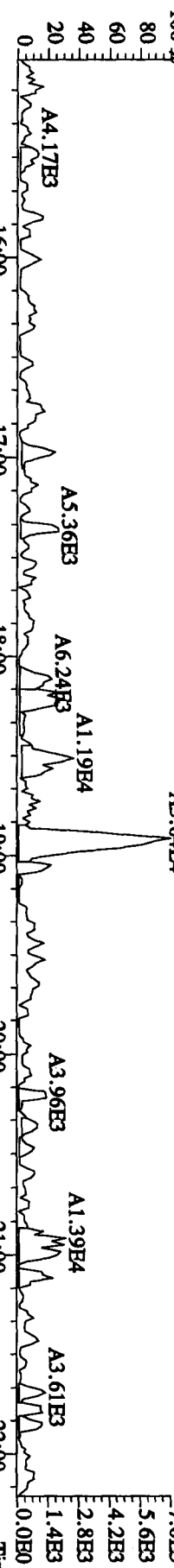
471.7750 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,80,0,1,00%,F,T)



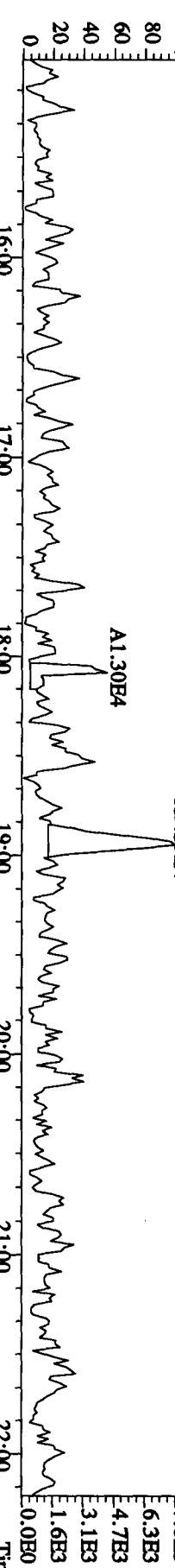
354.9792 S:6 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 15:29 16:05 16:33 17:13 17:48 18:21 18:46 19:15 19:37 20:16 21:01 21:35 22:11 2.4E7



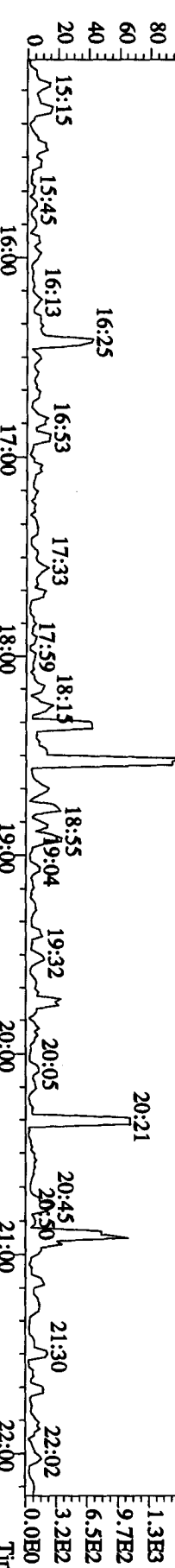
303.9016 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 7.0E3



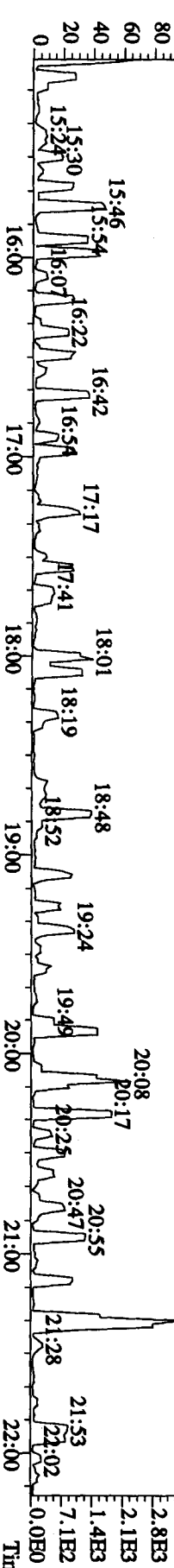
305.8887 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1904.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 7.8E3



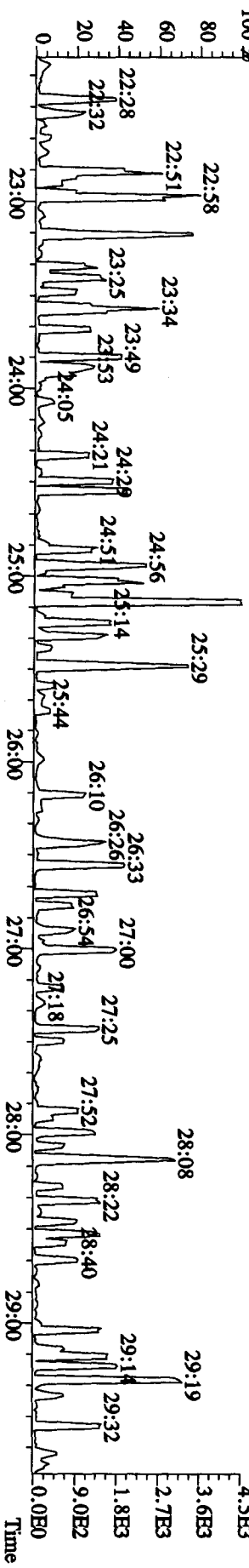
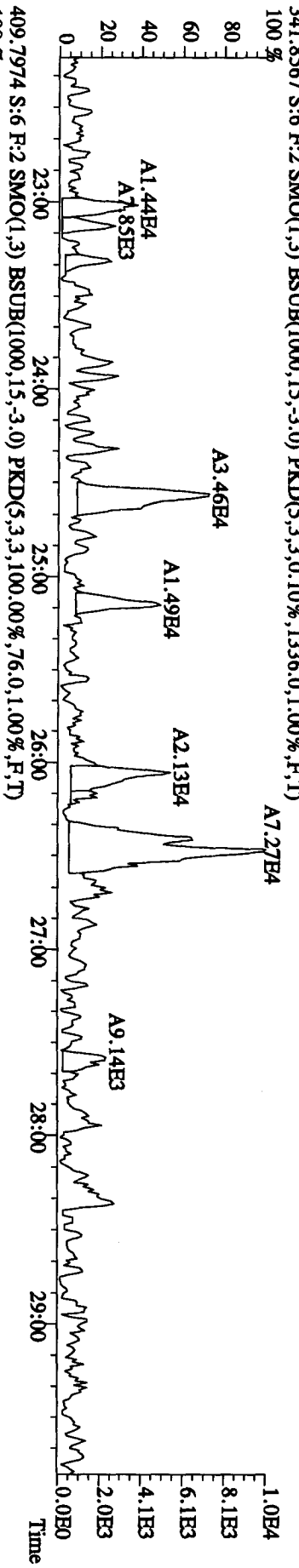
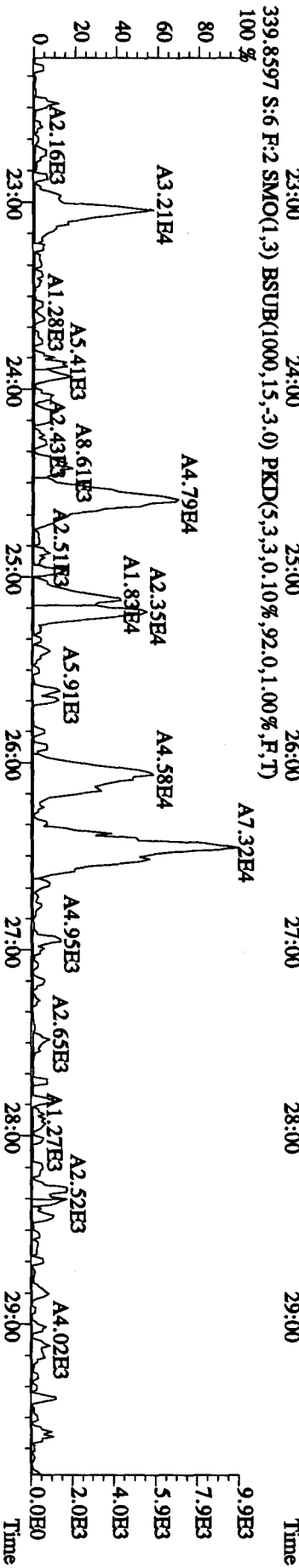
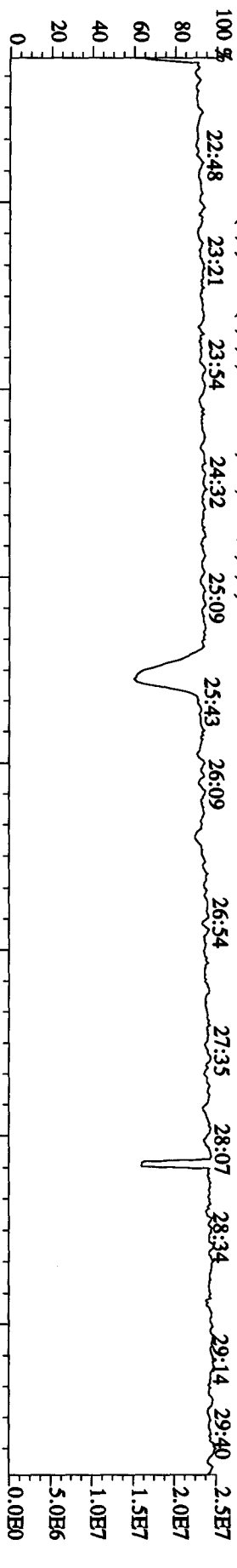
375.8364 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,92.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 1.6E3



409.7974 S:6 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,72.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 3.6E3

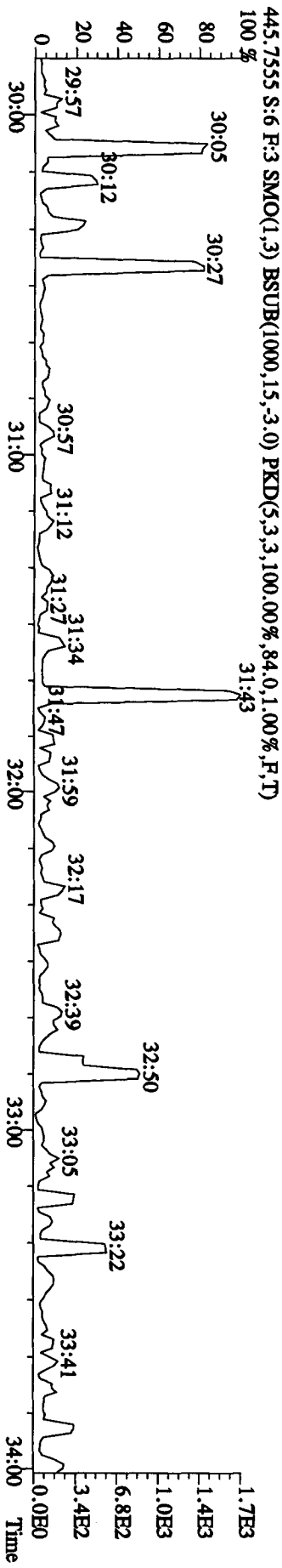
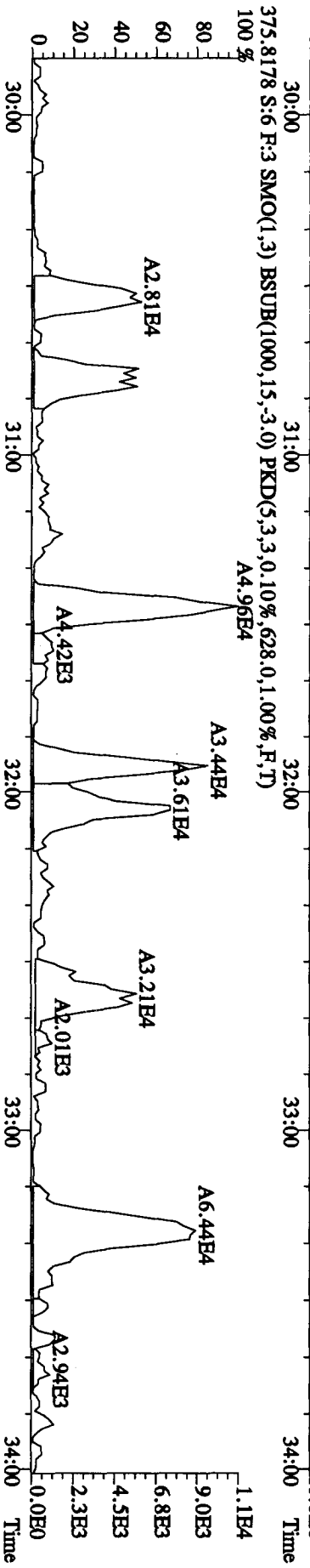
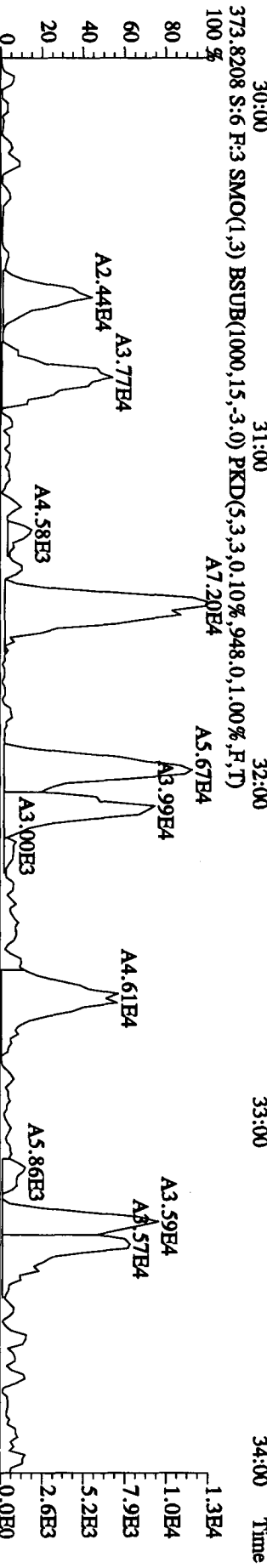
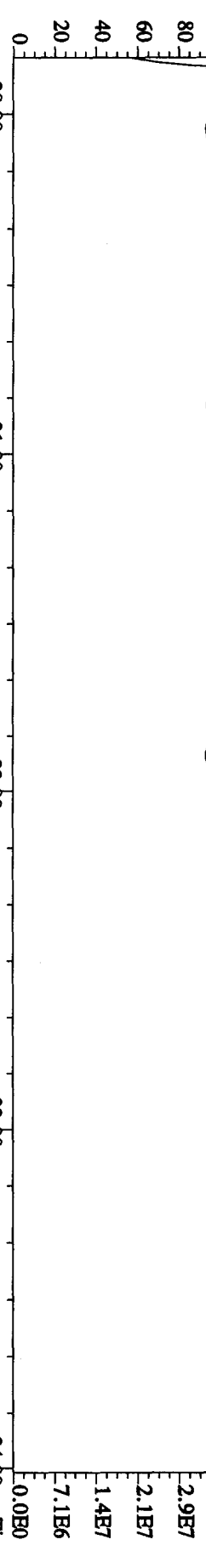


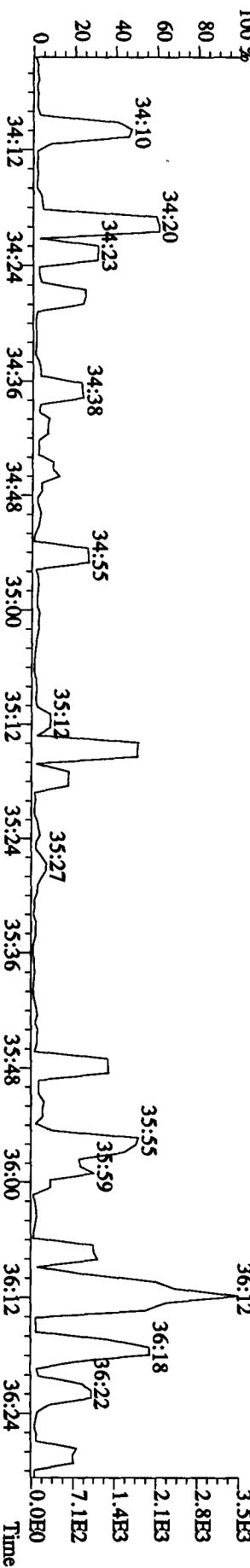
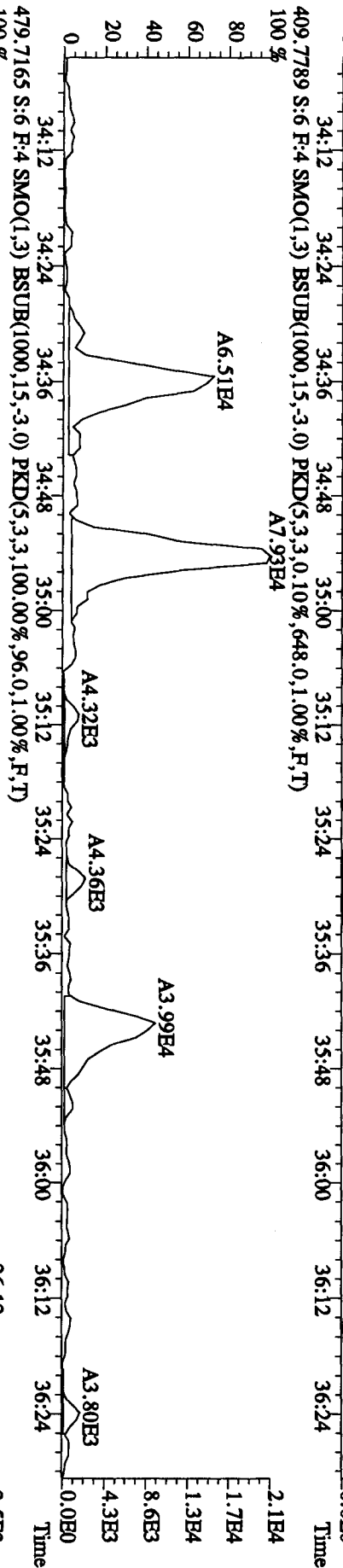
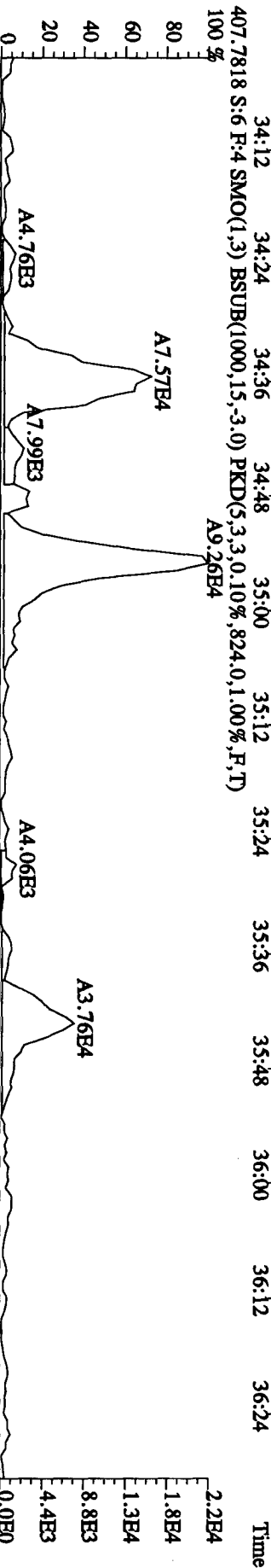
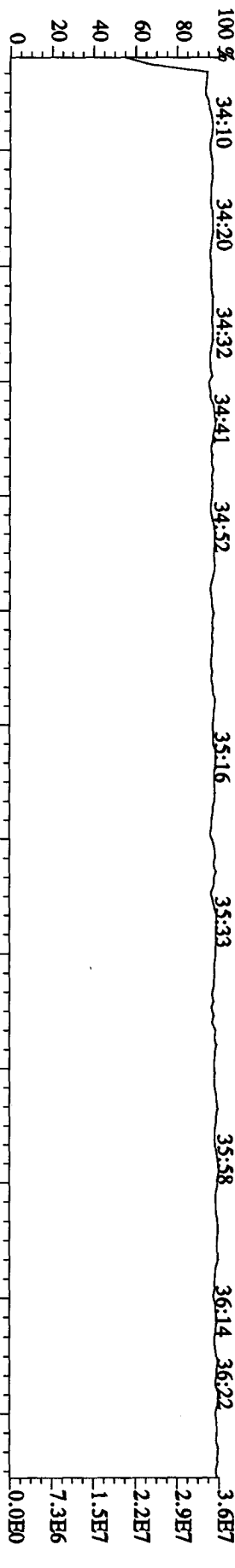
File:01MAY104D5 #1-604 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A



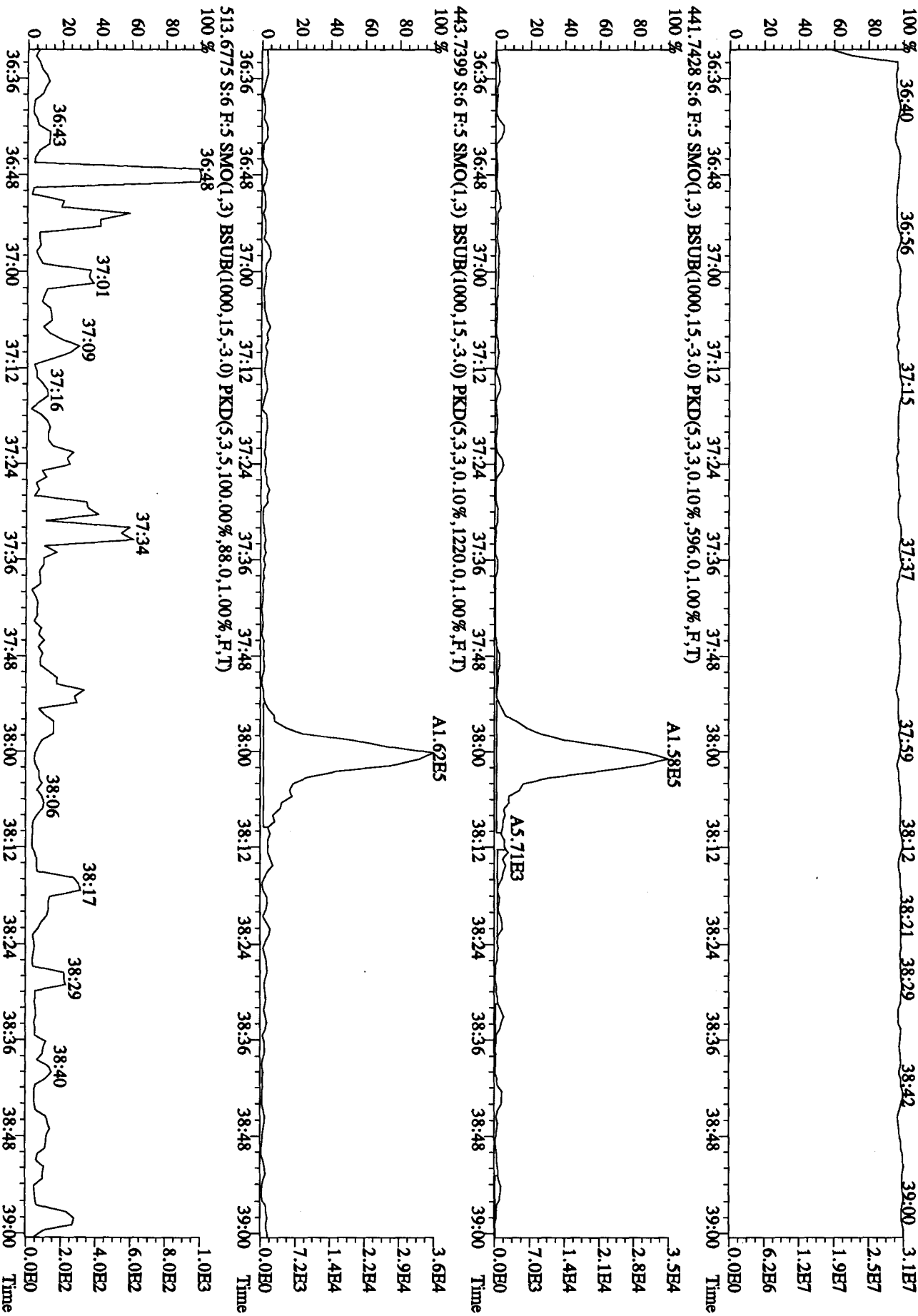
File:01MAY104D5 #1-317 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A

430.9728 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 30:27 30:40 30:53 31:14 31:34 32:00 32:13 32:26 32:41 33:06 33:27 33:42





File:01MAY104D5 #1-190 Acq: 1-MAY-2010 12:28:29 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:LXWV7-1-AA :GOD130519-1 Exp:DIOXINRES8290A



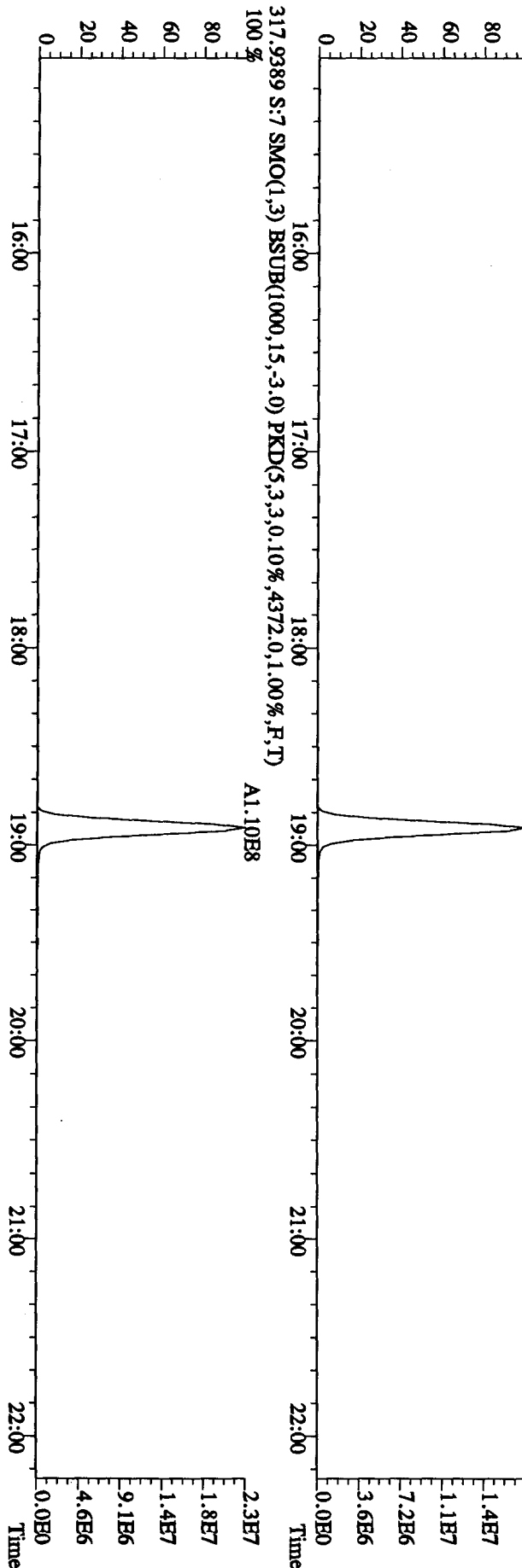
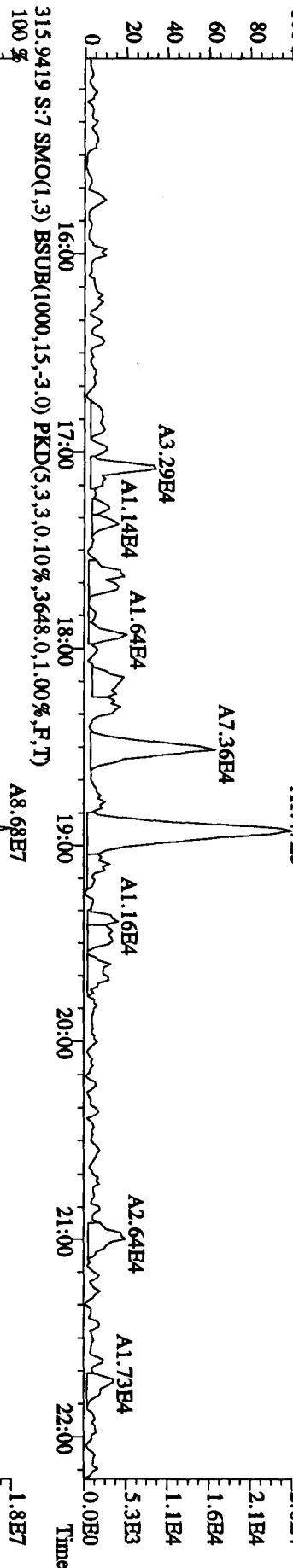
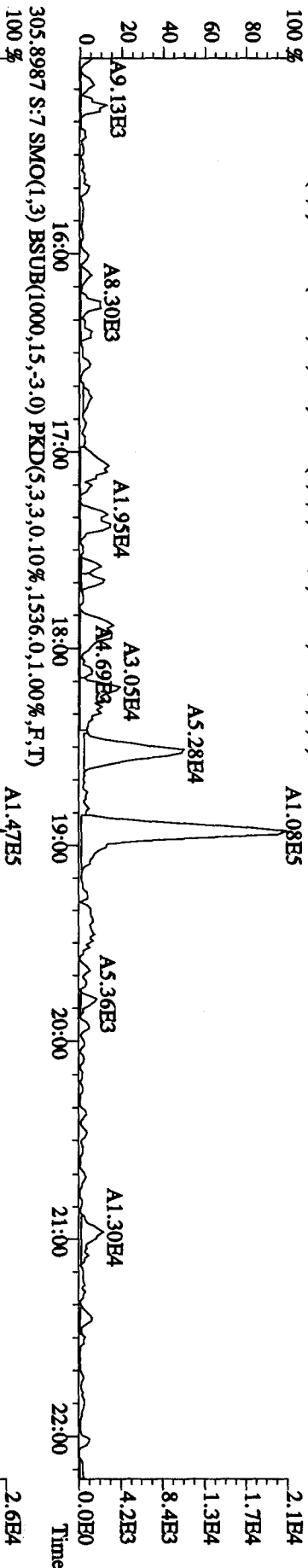
Run text: LXWV8-1-AA Sample text: LXWV8-1-AA :G0D130519-2
 Run #10 Filename: 01MY104D5 S: 7 I: 1 Results: 01MY104D58290A
 Acquired: 1-MAY-10 13:12:31 Processed: 2-MAY-10 09:22:48
 Run: 01MY104D5 Analyte: 8290AHRS Cal: 8290A0412104D5
 Sample size: 1.03 L

V8 5 J 6

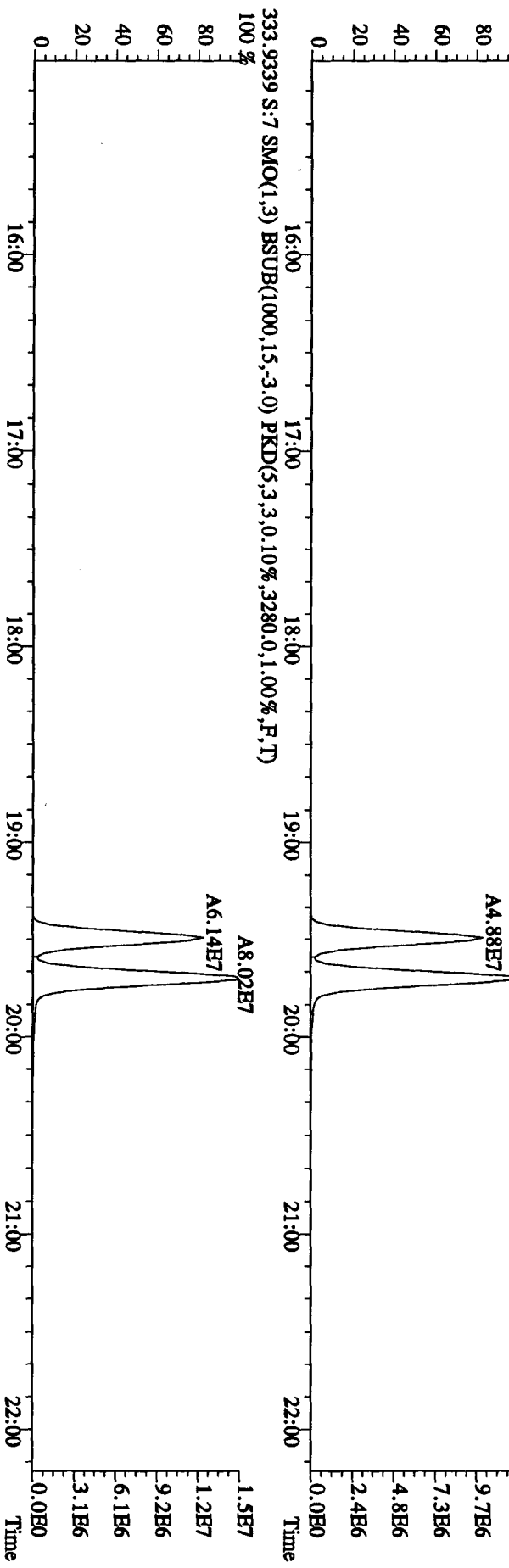
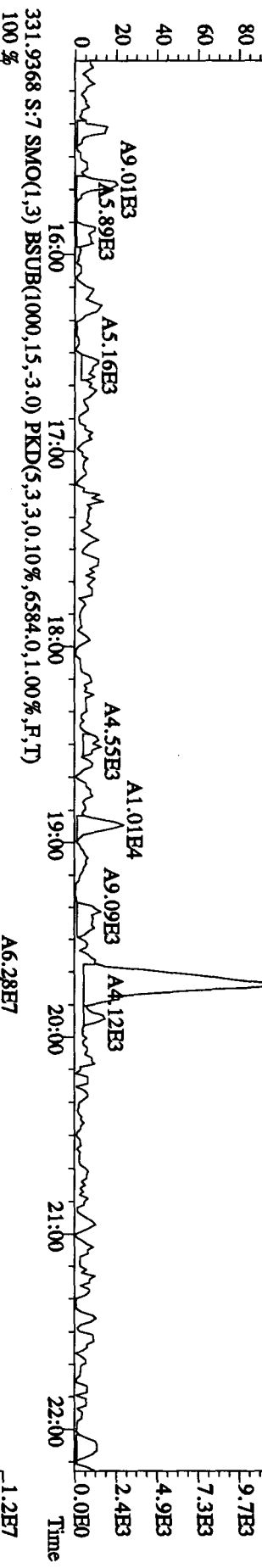
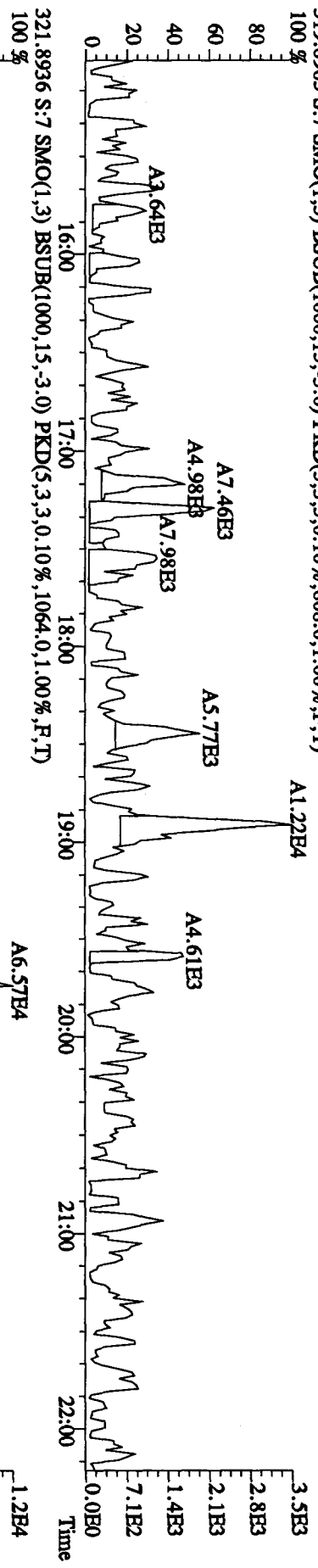
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	110232200	0.80 y	19:29	-	80.1480	-	-	n
13C-2,3,7,8-TCDF	196493800	0.79 y	18:55	1.52	1133.8342	0.6751	58.6	n
2,3,7,8-TCDF	254289	0.73 y	18:56	0.95	2.6485 J	0.3257	-	n
Total TCDF	599909	0.66 y	17:04	0.95	6.2482	0.3257	-	n
13C-2,3,7,8-TCDD	142946900	0.78 y	19:42	0.95	1320.8362	1.3295	68.3	n
2,3,7,8-TCDD	*	* n	NotFnd	1.02	*	0.3886	-	n
Total TCDD	26022	1.27 n	18:27	1.02	0.3449	0.3886	-	n
37Cl-2,3,7,8-TCDD	173650000	1.00 y	19:43	2.26	673.8633	0.1580	87.1	n
13C-1,2,3,7,8-PeCDF	146290700	1.55 y	24:34	1.05	1222.2163	0.9048	63.2	n
1,2,3,7,8-PeCDF	115230	1.48 y	24:36	1.04	1.4586 J	0.3624	-	n
2,3,4,7,8-PeCDF	74061	1.14 n	26:05	0.98	0.9972 JQB	0.3855	-	n
Total F2 PeCDF	558454	2.13 n	23:03	1.01	7.2729	0.3735	-	n
Total F1 PeCDF	71844	0.71 n	16:37	1.01	0.9375	0.3851	-	n
13C-1,2,3,7,8-PeCDD	103595200	1.57 y	26:52	0.67	1355.8650	0.3314	70.1	n
1,2,3,7,8-PeCDD	*	* n	NotFnd	0.98	*	0.4819	-	n
Total PeCDD	38378	0.36 n	23:13	0.98	0.7299	0.4819	-	n
13C-1,2,3,7,8,9-HxCDD	78432800	1.24 y	33:05	-	73.8328	-	-	n
13C-1,2,3,4,7,8-HxCDF	103887000	0.51 y	31:55	1.02	1250.1482	0.0380	64.6	n
1,2,3,4,7,8-HxCDF	119398	0.98 n	31:56	1.21	1.8336 J	0.4236	-	n
1,2,3,6,7,8-HxCDF	79910	0.86 n	32:02	1.34	1.1082 JQB	0.3825	-	n
2,3,4,6,7,8-HxCDF	63883	1.02 n	32:37	1.22	0.9733 JQB	0.4203	-	n
1,2,3,7,8,9-HxCDF	96641	1.01 n	33:20	1.09	1.6474	0.4702	-	n
Total HxCDF	778521	1.11 y	30:32	1.22	11.9663	0.4219	-	n
13C-1,2,3,6,7,8-HxCDD	91386800	1.27 y	32:49	0.81	1396.4946	0.4103	72.2	n
1,2,3,4,7,8-HxCDD	17319	0.46 n	32:45	1.01	noise 0.3642 DL	0.2782	-	n
1,2,3,6,7,8-HxCDD	36055	0.97 n	32:49	1.11	0.6852 JQB	0.2514	-	n
1,2,3,7,8,9-HxCDD	37051	0.86 n	33:05	1.21	0.6487 JQB	0.2316	-	n
Total HxCDD	201942	1.45 n	31:23	1.11	3.8251	0.2523	-	n
13C-1,2,3,4,6,7,8-HpCDF	90911600	0.43 y	34:35	0.86	1299.8121	7.6661	67.2	n
1,2,3,4,6,7,8-HpCDF	277803	1.10 y	34:36	1.31	4.5138 JB	0.4907	-	n
1,2,3,4,7,8,9-HpCDF	54854	0.57 n	35:44	1.03	1.1381 JQB	0.6266	-	n
Total HpCDF	578513	1.10 y	34:36	1.17	10.1326	0.5504	-	n
13C-1,2,3,4,6,7,8-HpCDD	81571300	1.05 y	35:24	0.70	1442.3216	4.3140	74.6	n
1,2,3,4,6,7,8-HpCDD	249411	1.18 y	35:24	1.07	5.5187 JB	0.3630	-	n
Total HpCDD	437817	4.06 n	34:35	1.07	9.6875	0.3630	-	n
13C-OCDD	118287600	0.91 y	37:54	0.53	2745.3274	0.0432	71.0	n
OCDF	547022	0.95 y	38:01	1.45	12.3798 J	0.5165	-	n
OCDD	1874136	0.87 y	37:55	1.17	52.5646 J/B	0.3945	-	n

V8 5 J 6

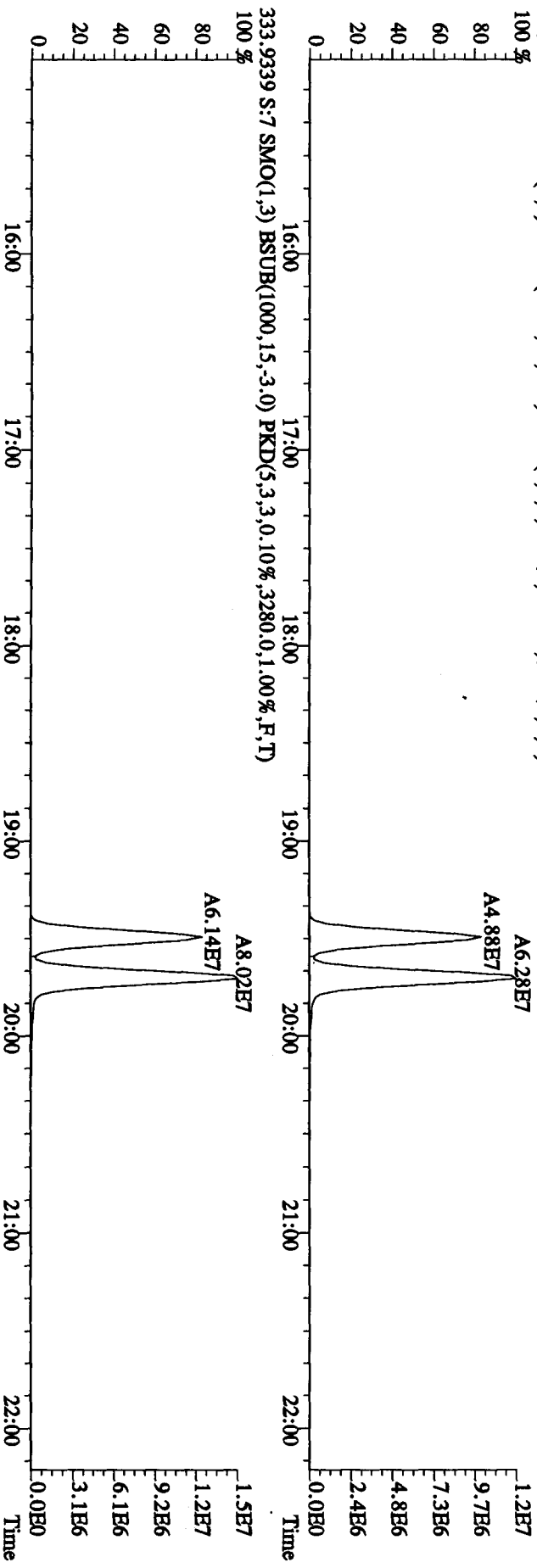
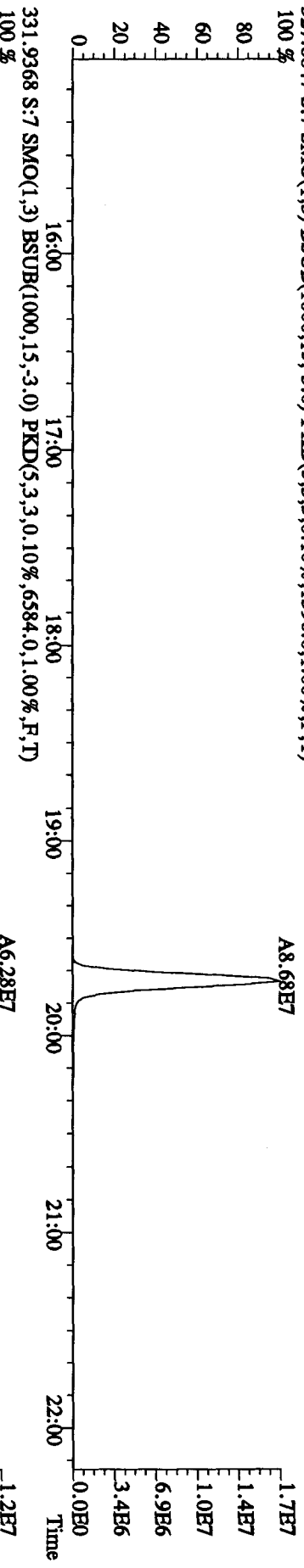
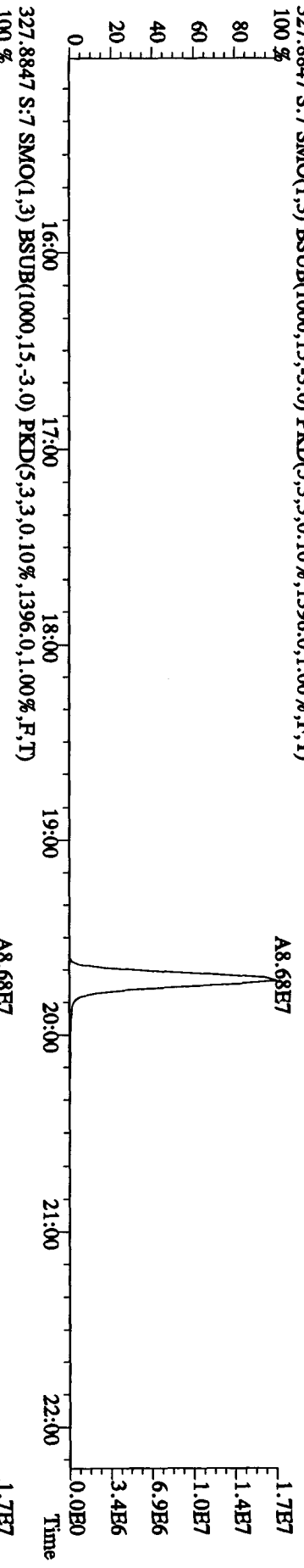
File:01MY104D5 #1-435 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage STR Autospec-Ultimate
 Sample#7 Text:LXWV8-1-AA :GOD130519-2 Exp:DIOXINRES8290A
 303.9016 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,632.0,1.00%,F,T)



File:01MY104D5 #1-435 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text:LXWV8-1-AA :GOD130519-2 Exp:DIOXINRES8290A
 319.8965 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,808.0,1.00%,F,T)

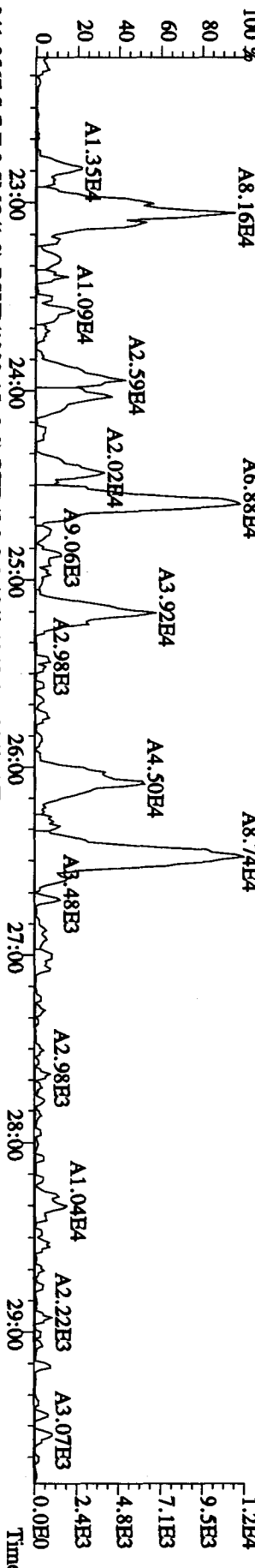


File:01MXY104D5 #1-435 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#7 Text:LXWV8-1-AA :GOD130519-2 Exp:DIOXINRES8290A
 327.8847 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1396,0,1,00%,F,T)

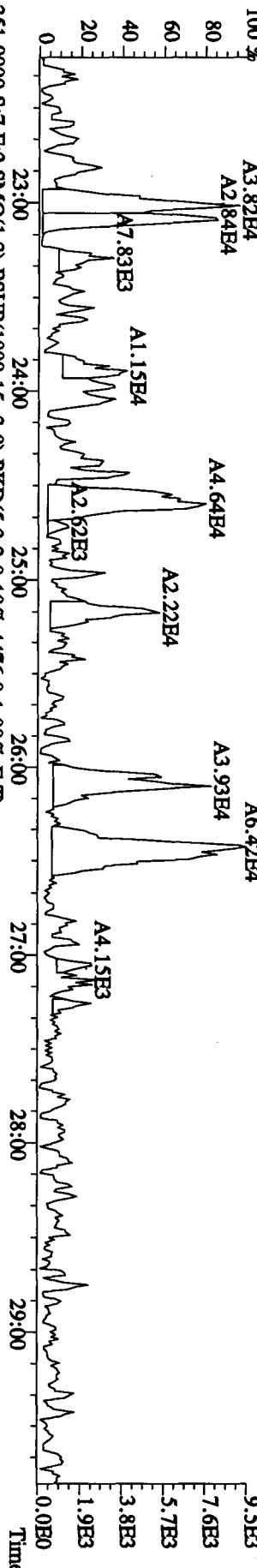


File:01MAY104D5 #1-604 Acq: 1-MAY-2010 13:12:31 GC EI + Voltage SIR Autospec-Ultimate
 Sample#7 Text:1.XWV8-1-AA :GOD130519-2 Exp:DIOXINRES8290A

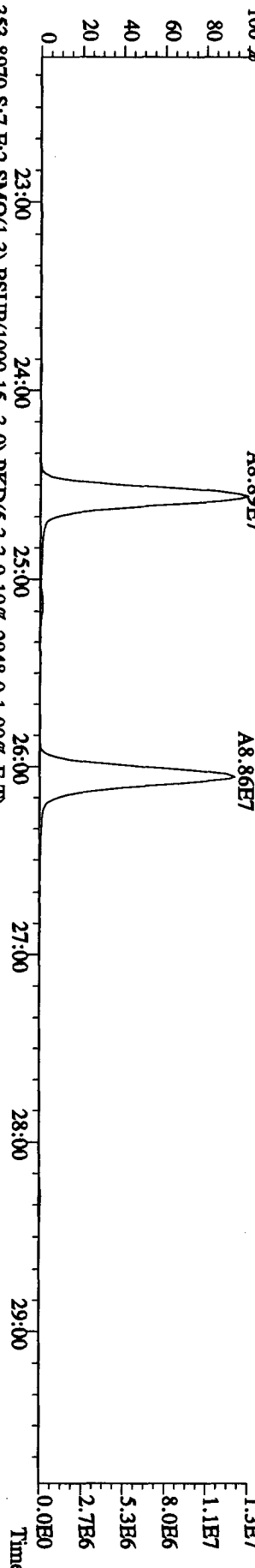
339.8597 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,80.0,1.00%,F,T)



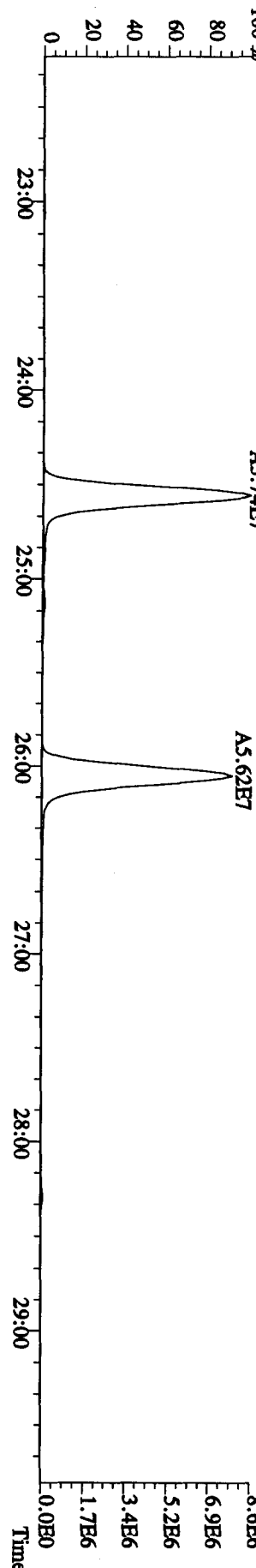
341.8567 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1348.0,1.00%,F,T)



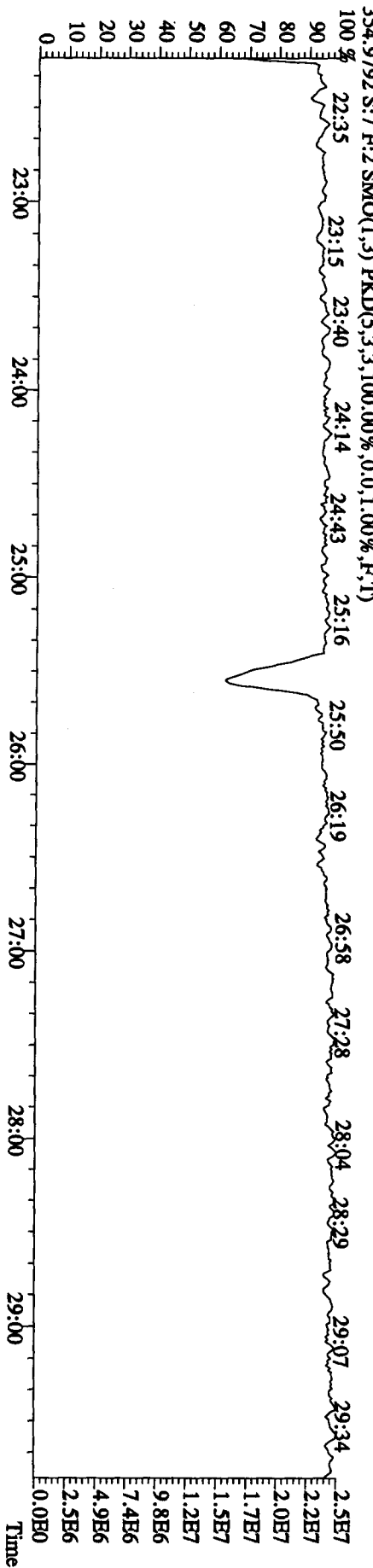
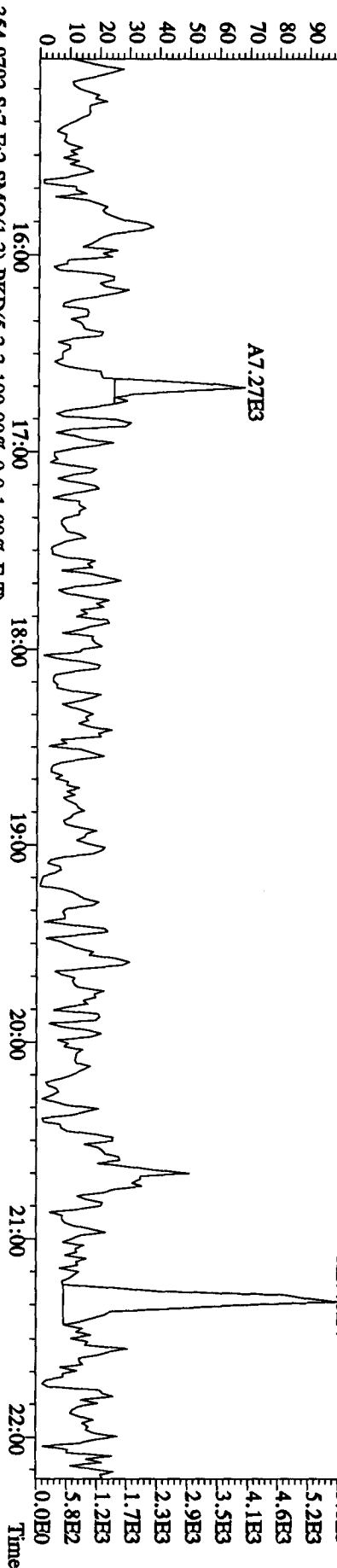
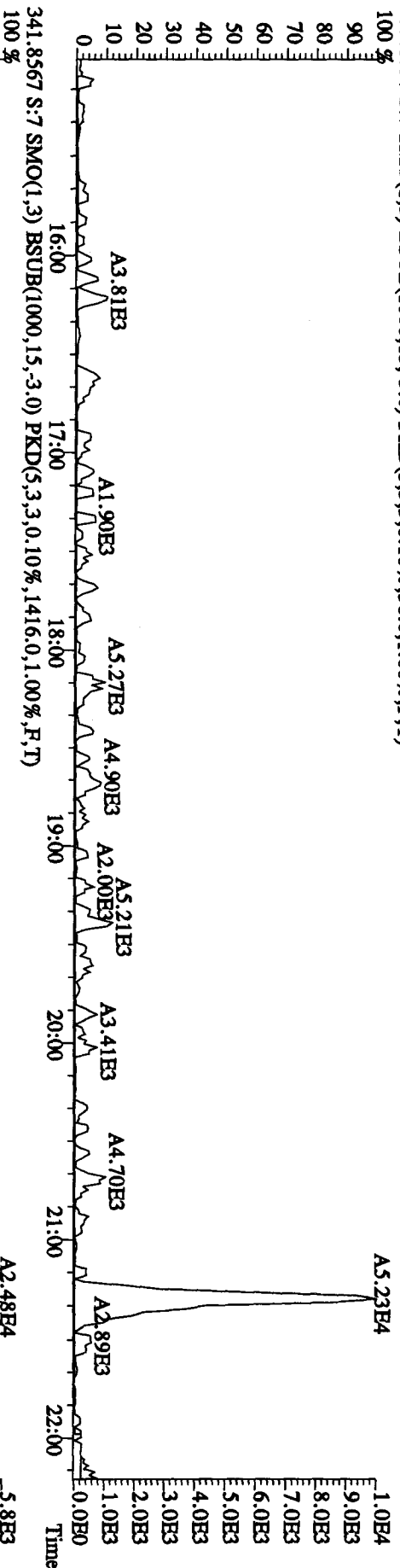
351.9000 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4476.0,1.00%,F,T)



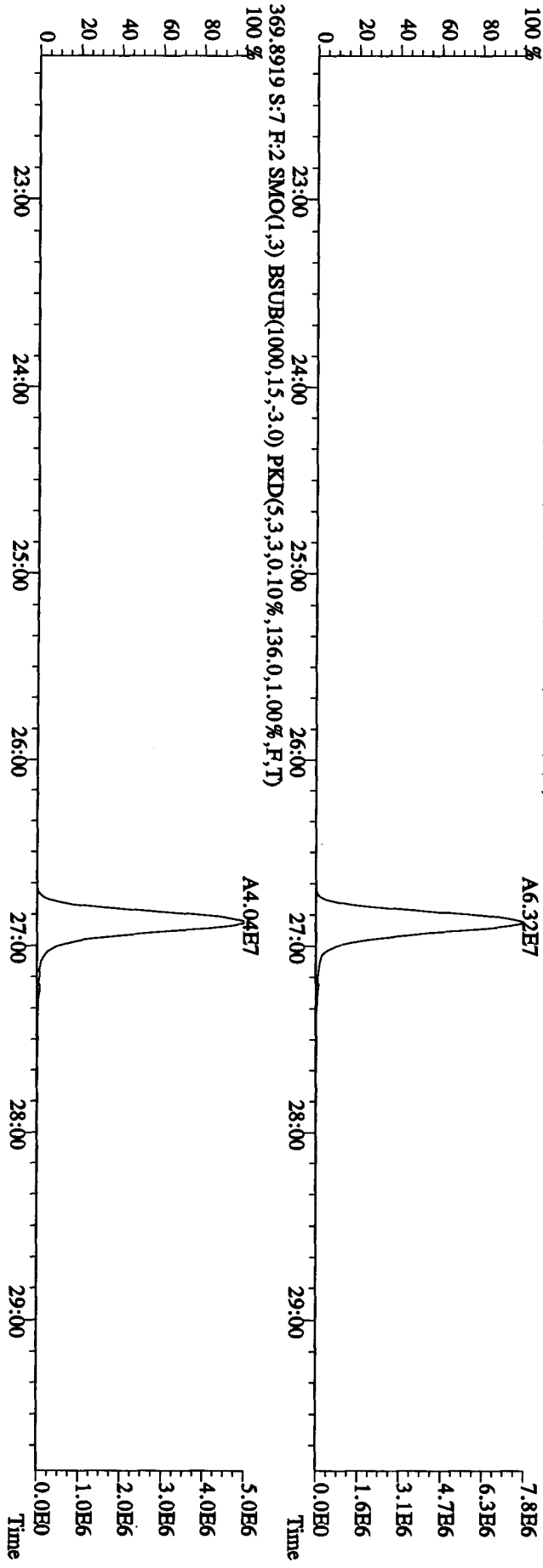
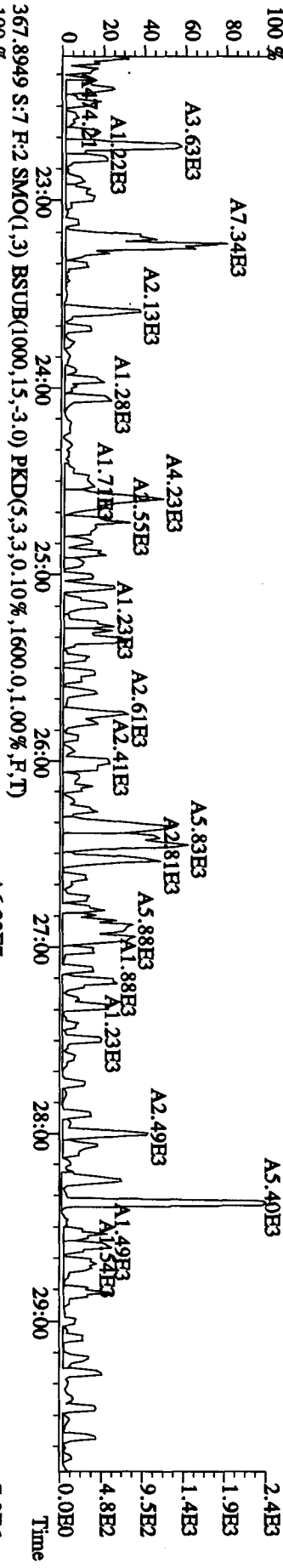
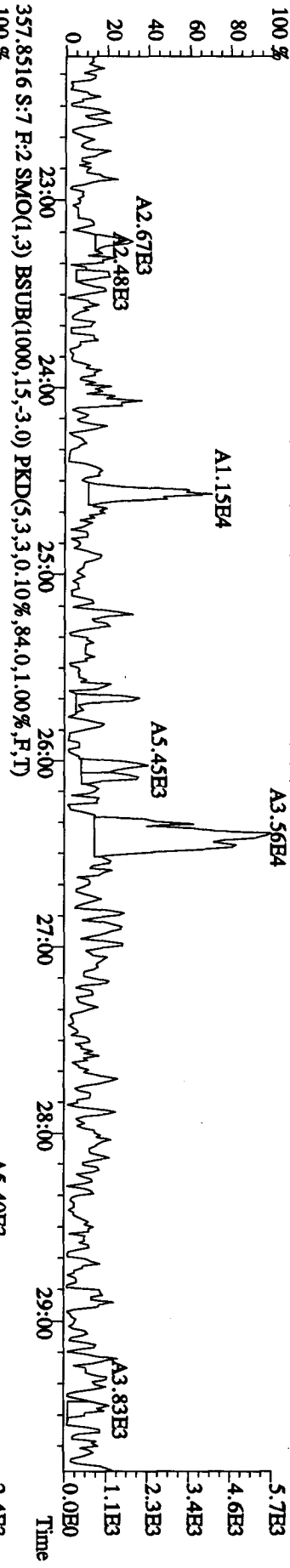
353.8970 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2948.0,1.00%,F,T)



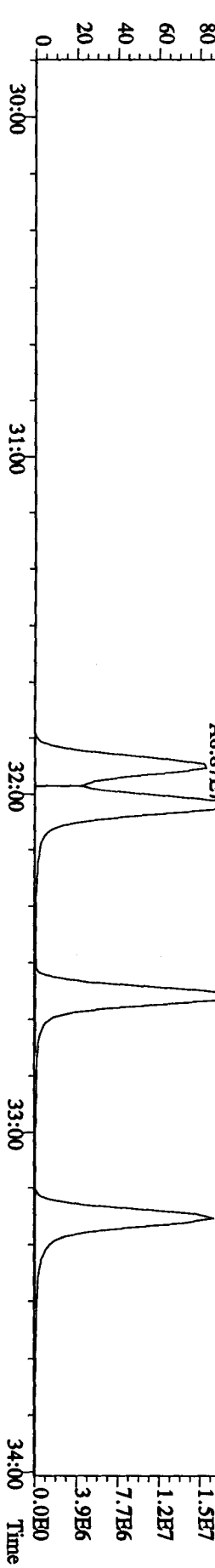
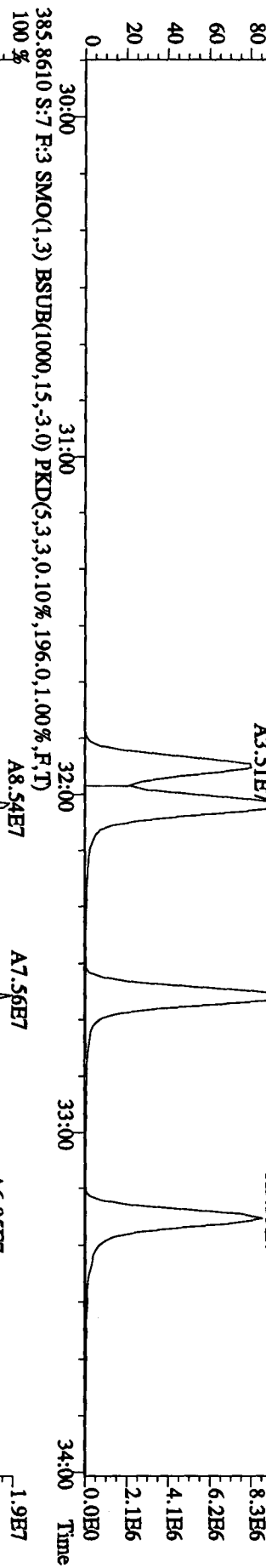
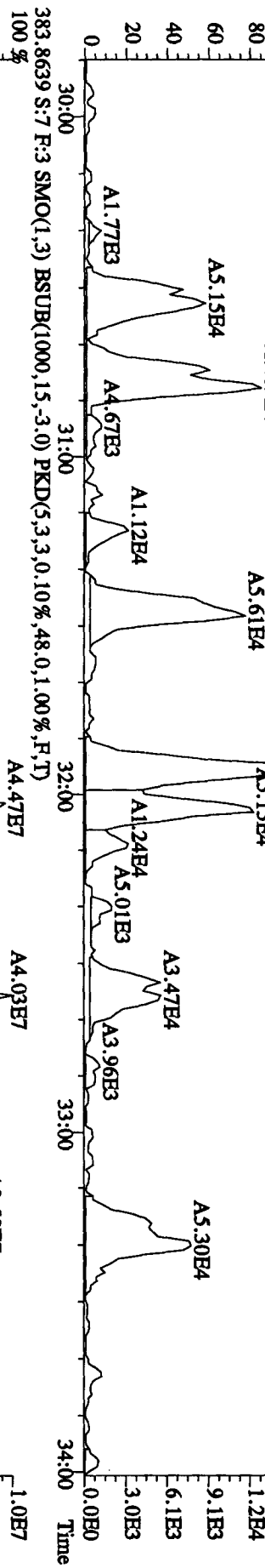
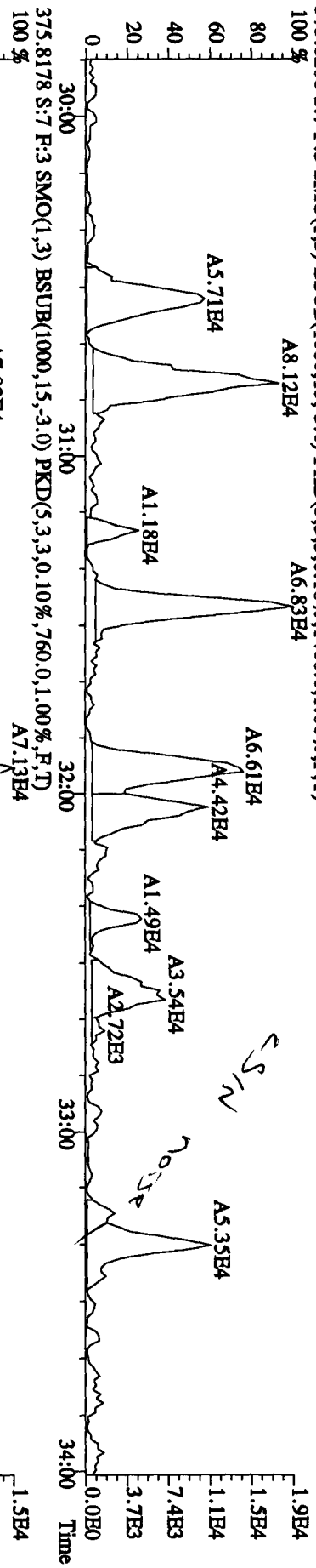
File:01MY104D5 #1-435 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text:LXWV8-1-AA :GDD130519-2 Exp:DIOXINRES8290A
 339,8597 S:7 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T)



File:01MYY104D5 #1-604 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text:LXWV8-1-AA :GOD130519-2 Exp:DIOXINRES8290A
 355.8546 S:7 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,964.0,1.00%,F,T)

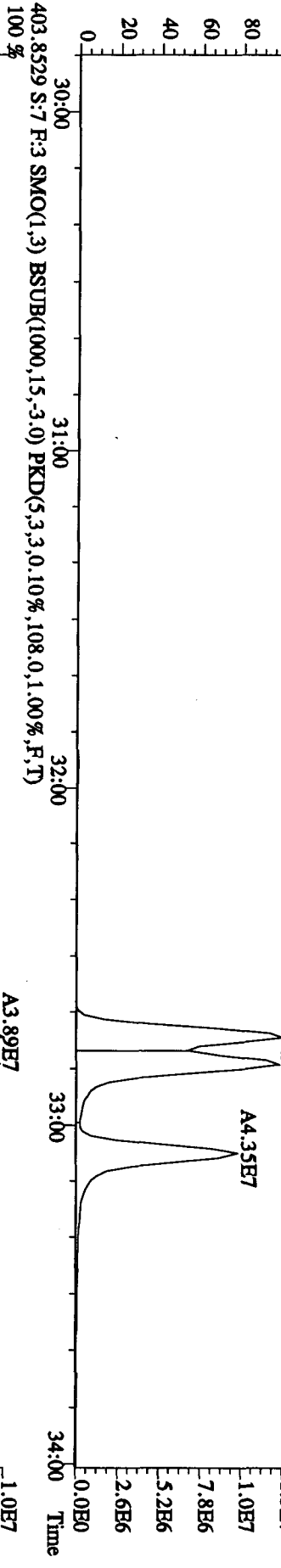
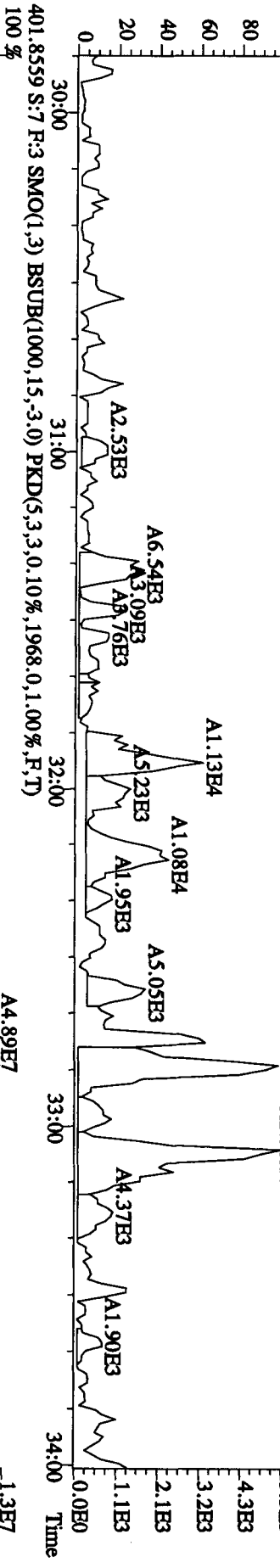
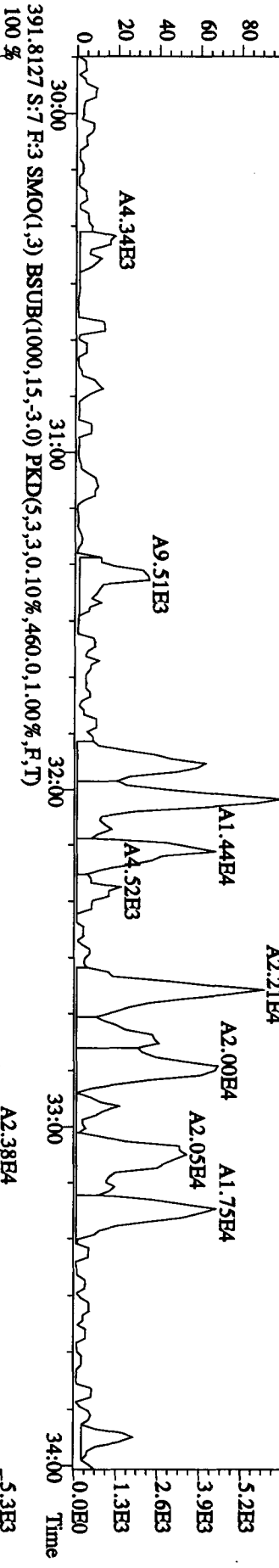


File:01MAY104D5 #1-317 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text:LXWV8-1-AA :GOD130519-2 Exp:DIOXINRES8290A
 373.8208 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1400,0,1.00%,F,T)

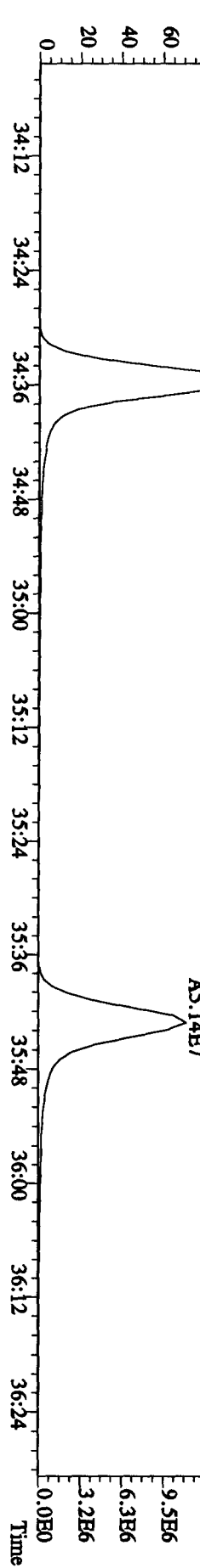
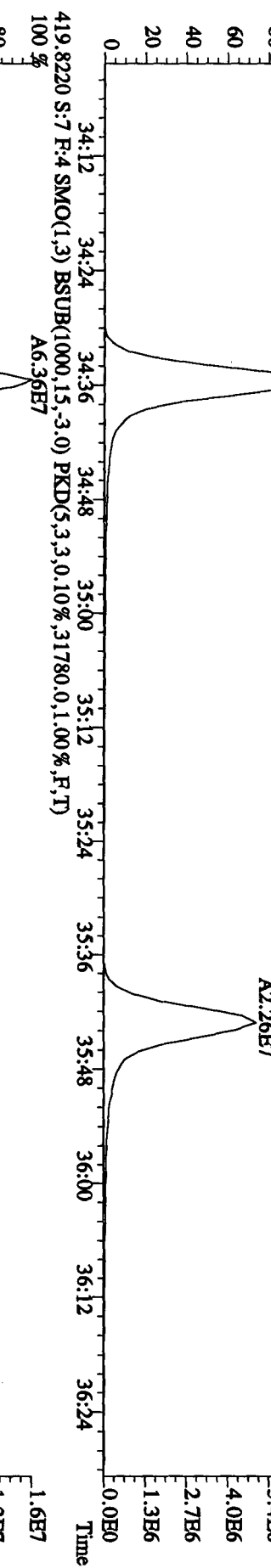
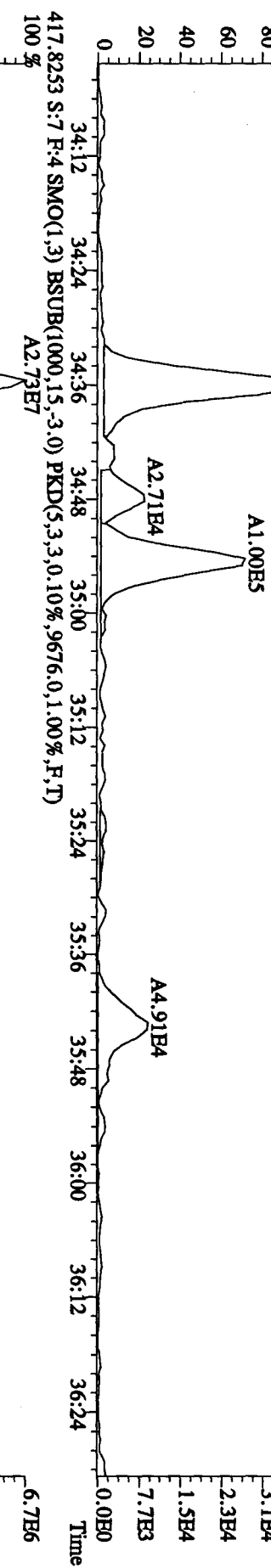
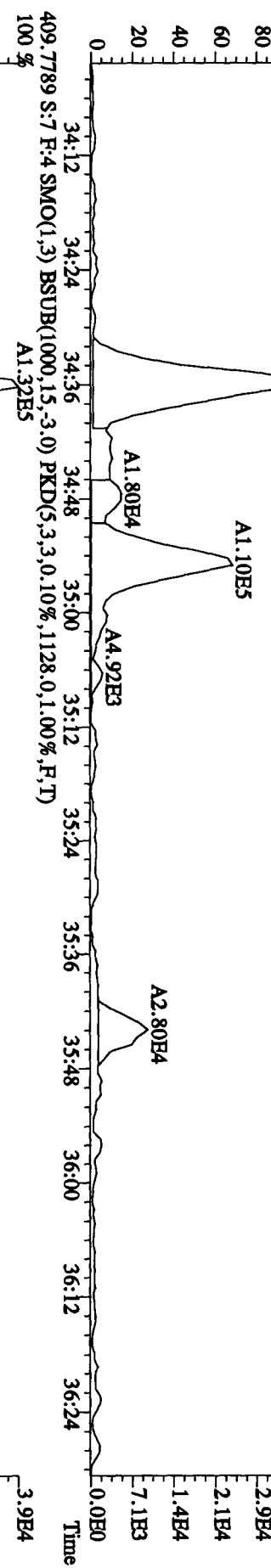


File:01MAY104D5 #1-317 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LXWV8-1-AA :GOD130519-2 Exp.:DIOXINRES8290A

389.8157 S:7 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,636,0,1,00%,F,T)

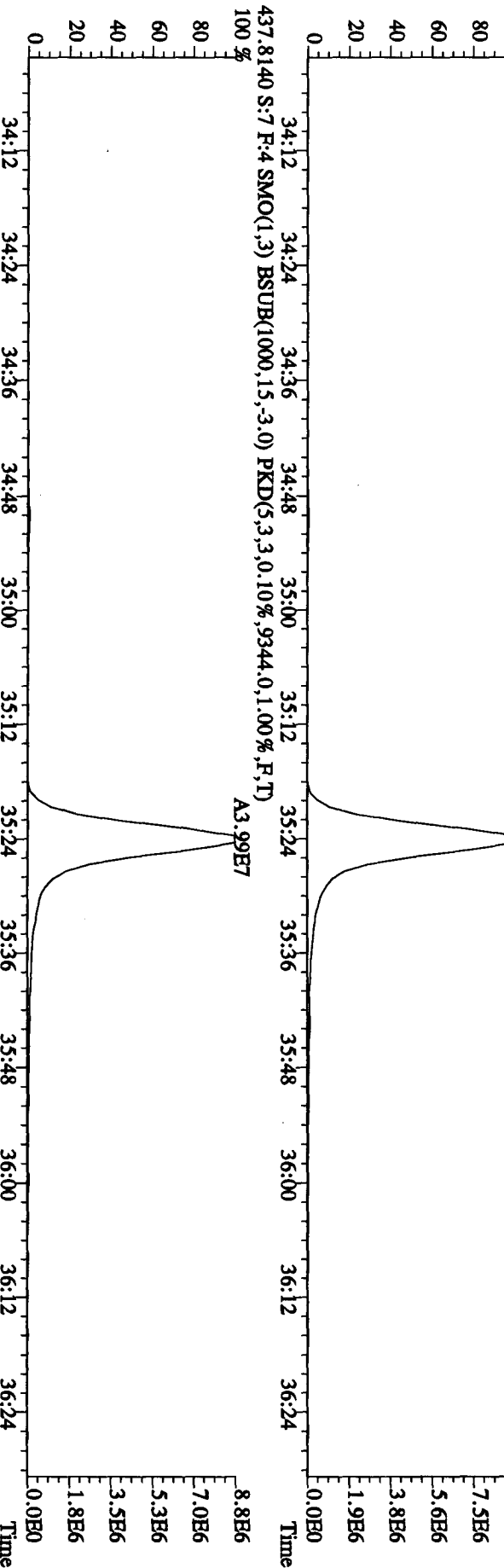
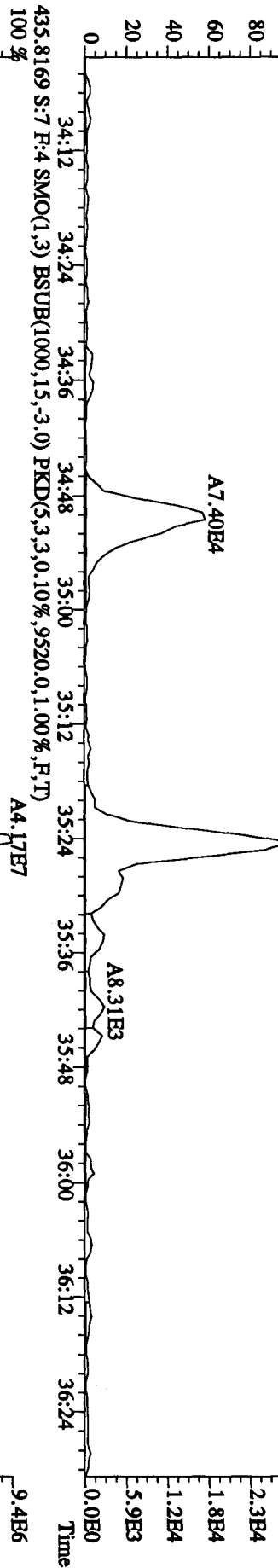
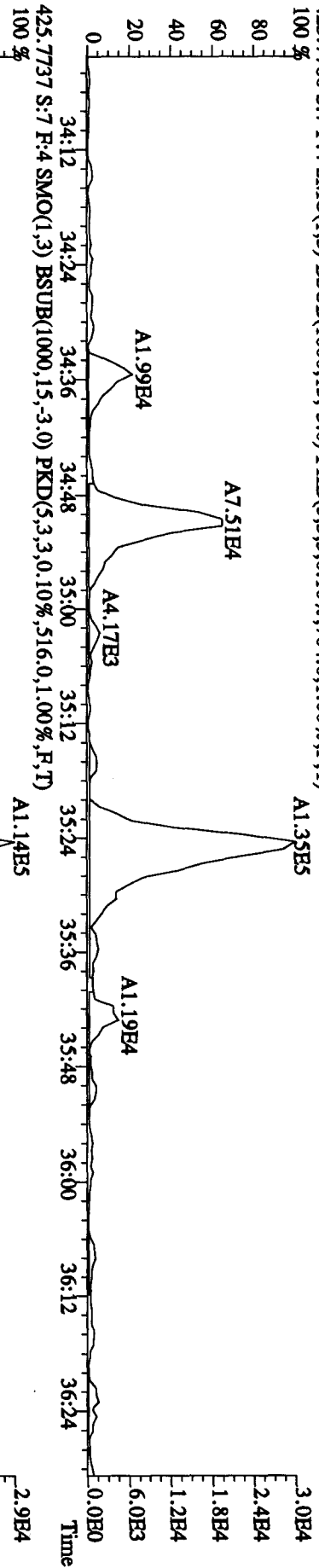


File:01MY104D5 #1-198 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#7 Text:LXWV8-1-AA :GOD130519-2 Exp:DIOXINRES8290A
 407.7818 S:7 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1360.0,1.00%,F,T)
 100 %

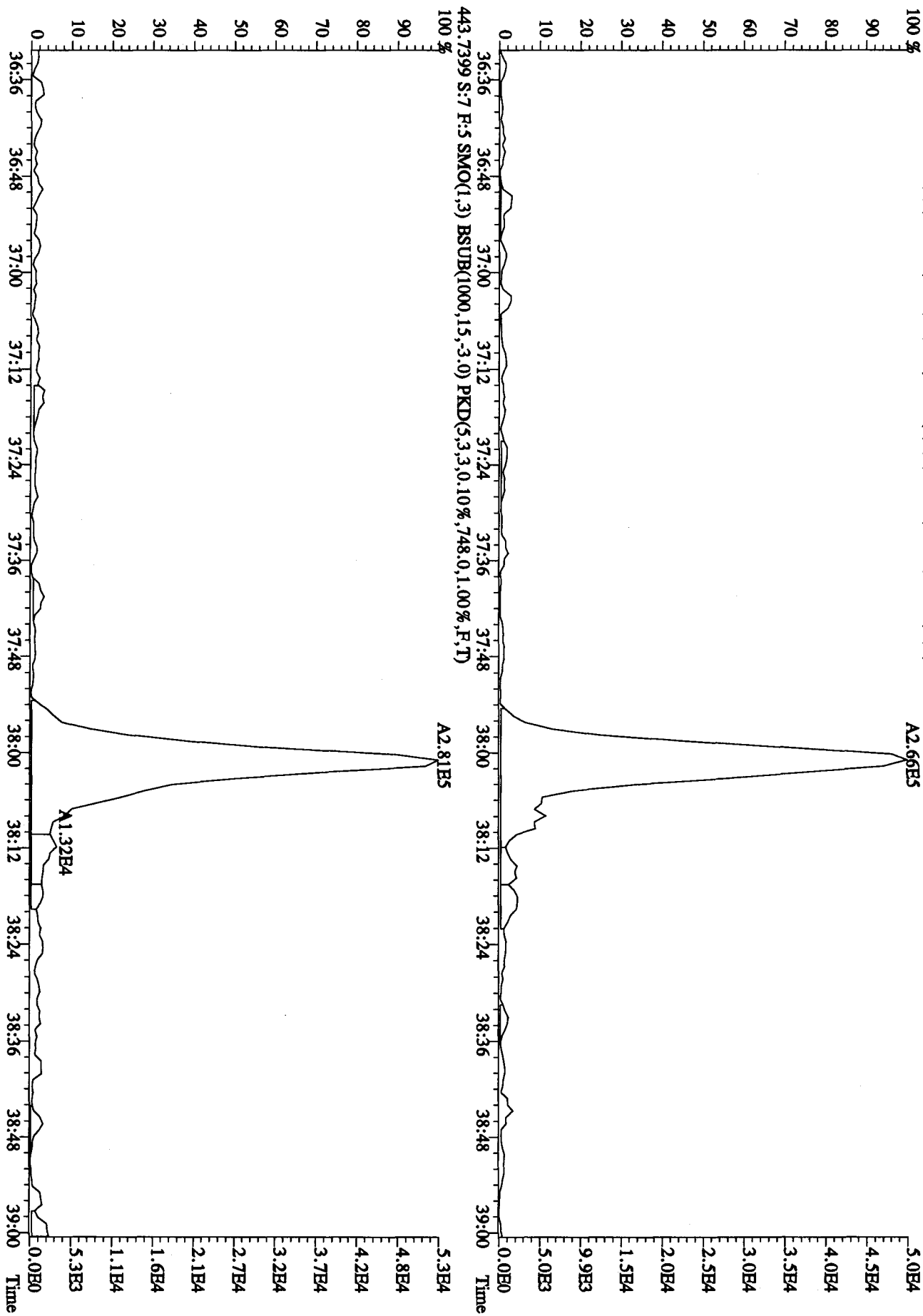


File:01MAY104D5 #1-198 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaE
Sample#7 Text:LXWV8-1-AA :GOD130519-2 Exp.:DIOXINRES8290A

423.7766 S:7 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,704,0,1.00%,F,T)
100 %



File: 01MAY104D5 #1-190 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text: LXWV8-1-AA : GODD130519-2 Exp: DIOXINRESS8290A
 441.7428 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,732.0,1.00%,F,T)

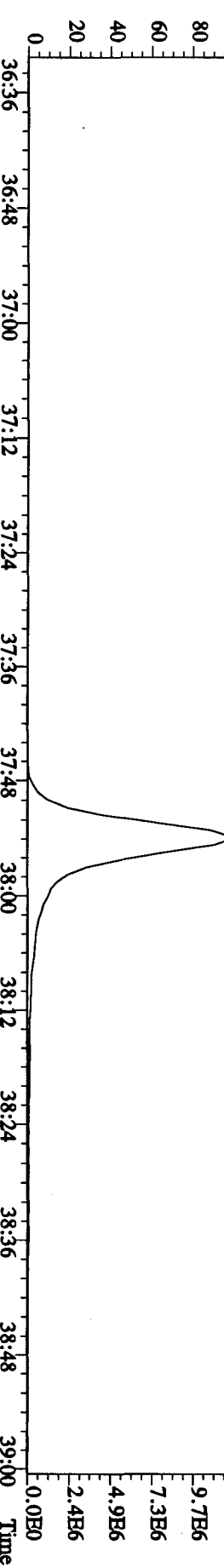
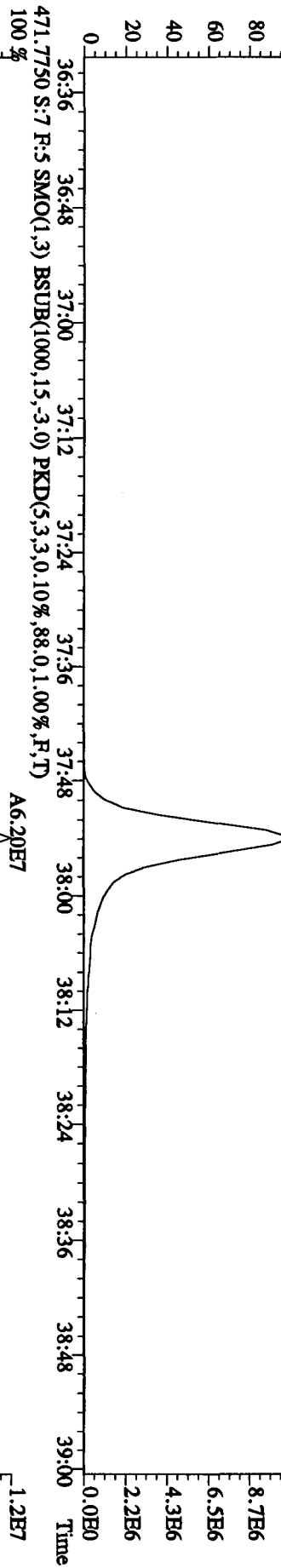
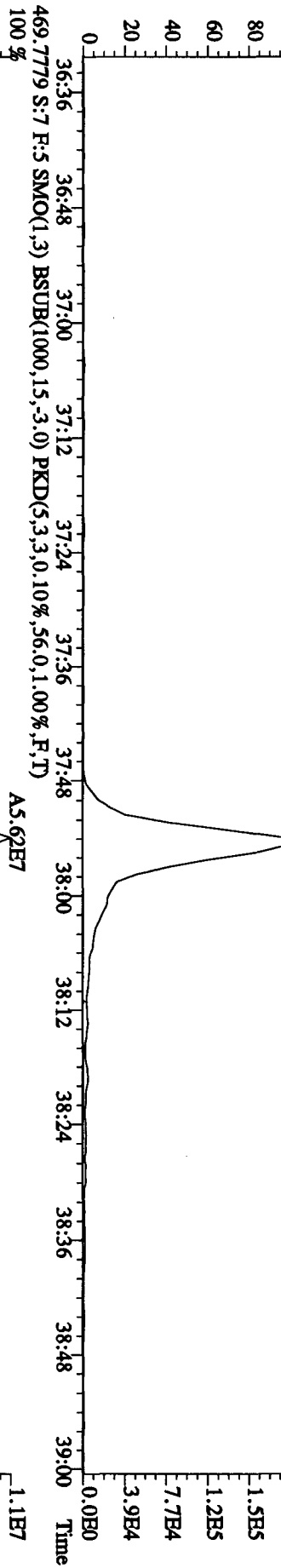
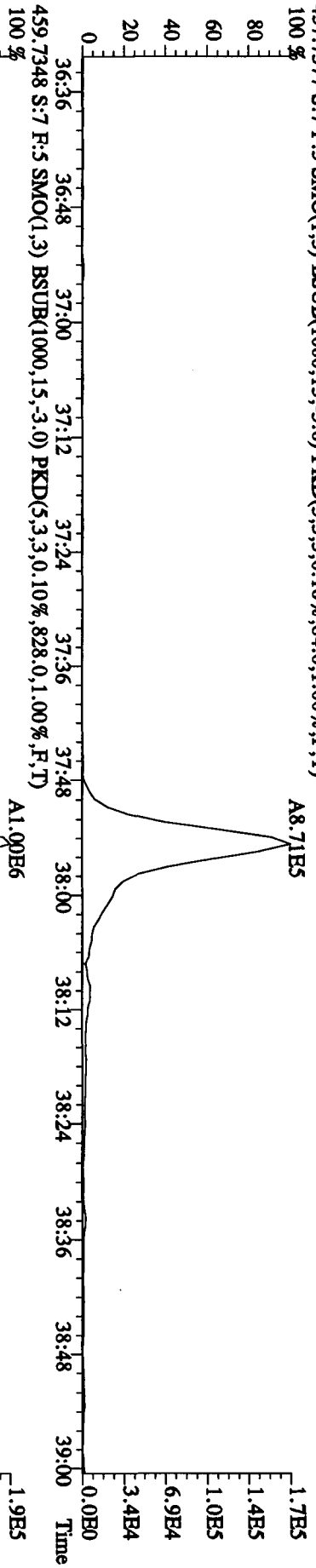


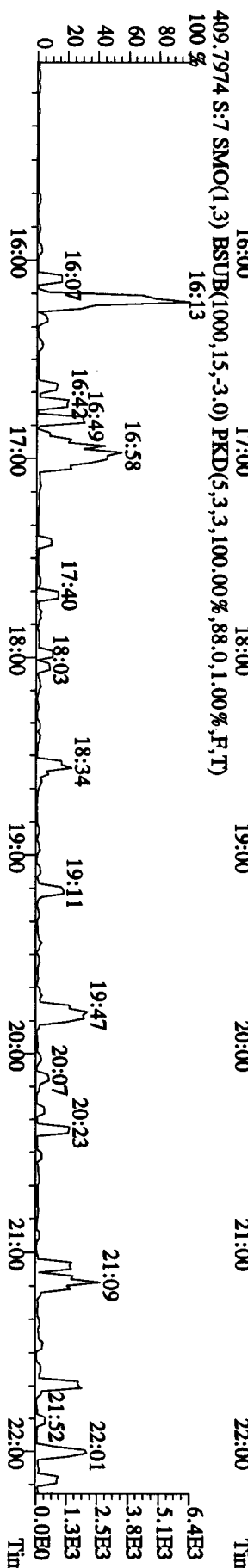
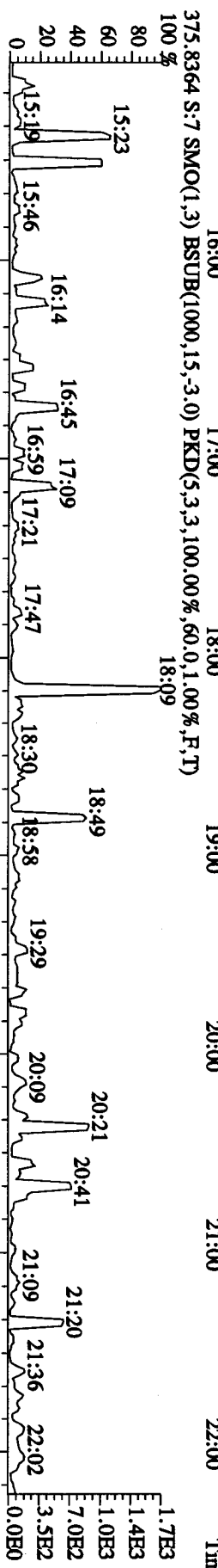
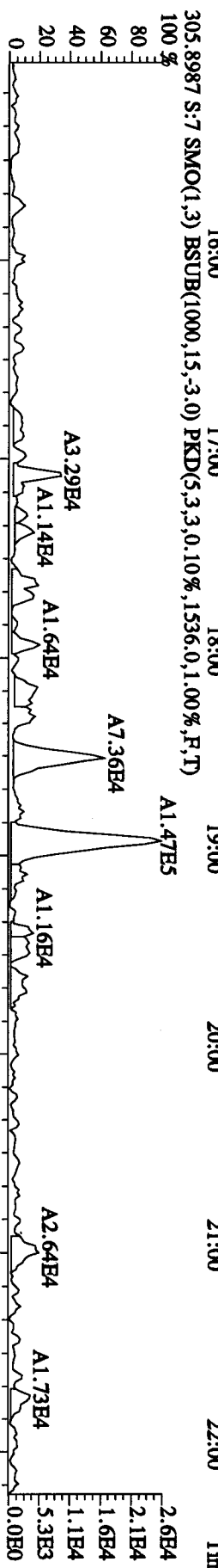
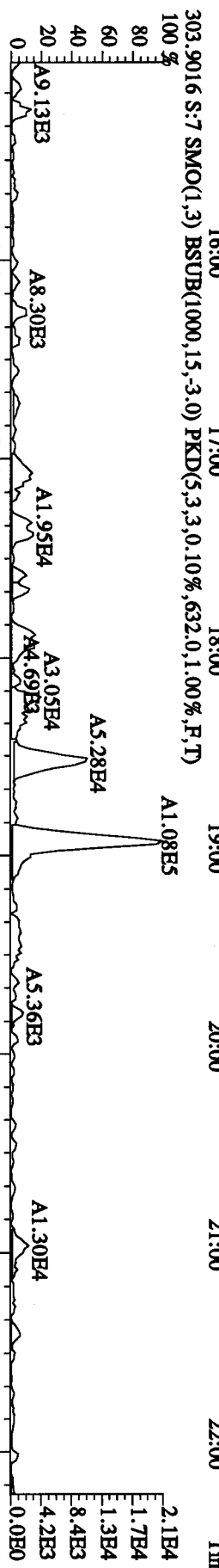
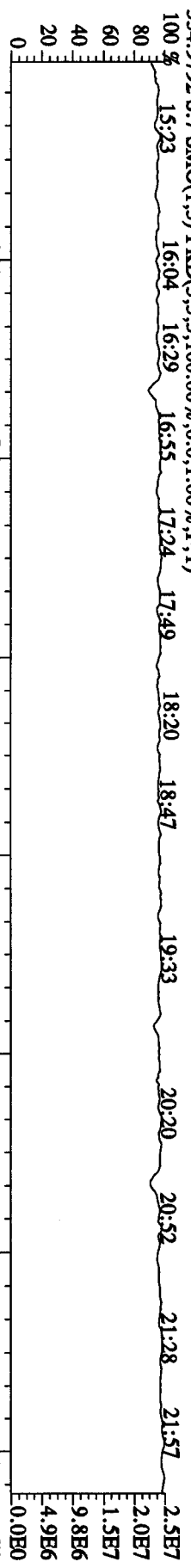
File:01MNY104D5 #1-190 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltimaB

Sample#7 Text:LXWV8-1-AA :G0D130519-2 Exp:DIOXINRES8290A

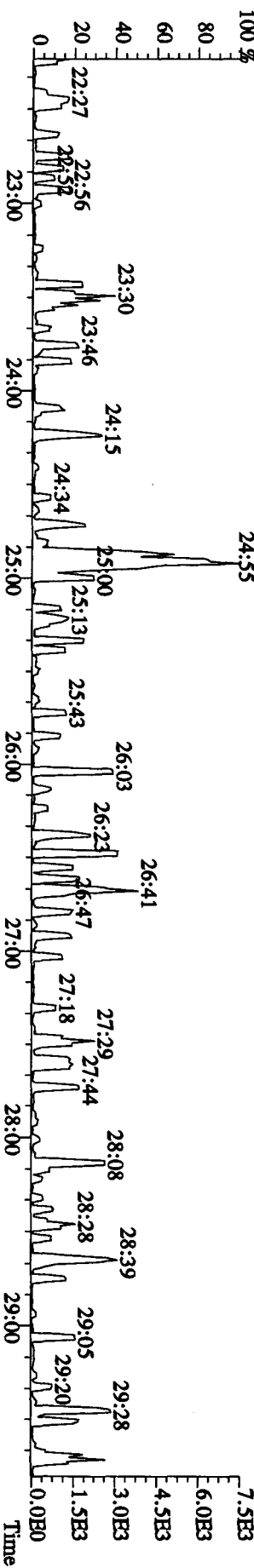
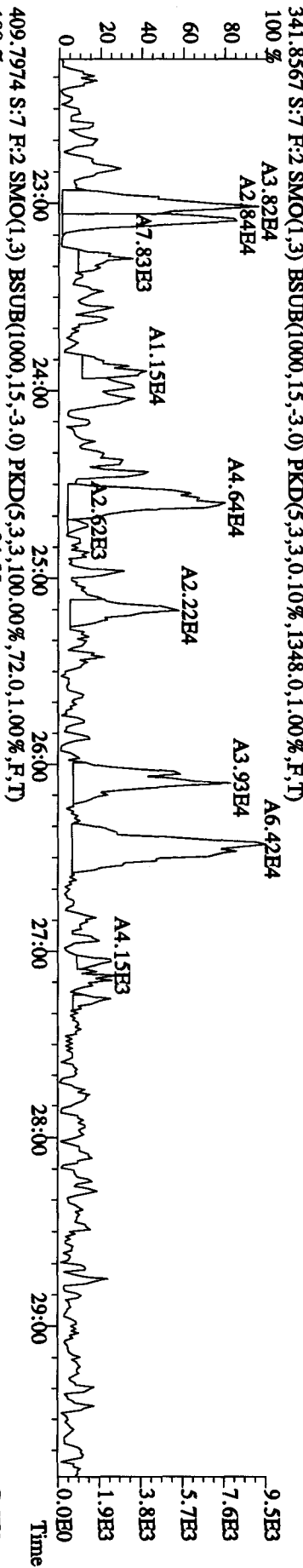
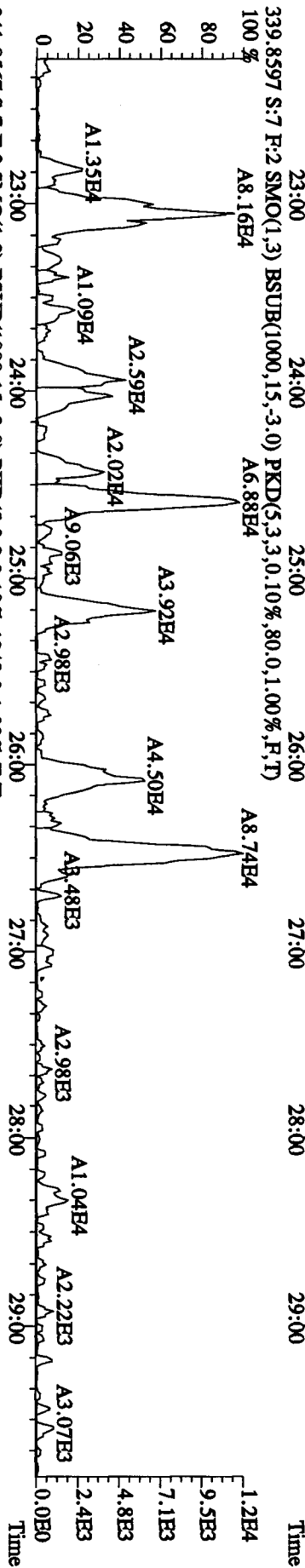
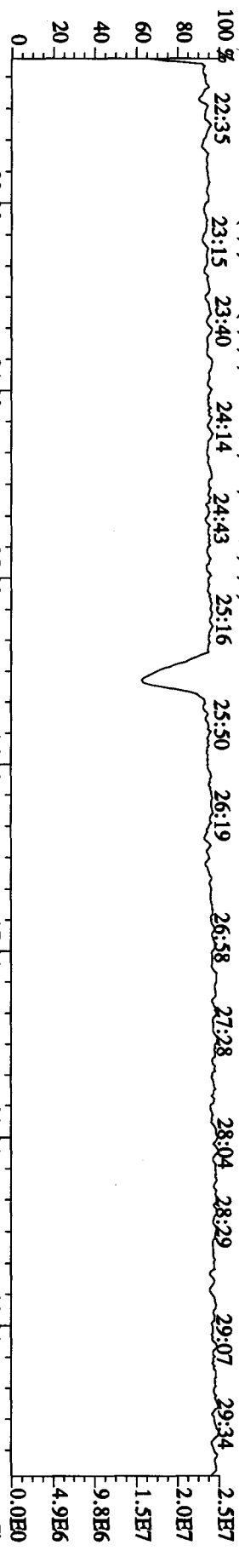
457.7377 S:7 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,84.0,1.00%,F,T)

100 %

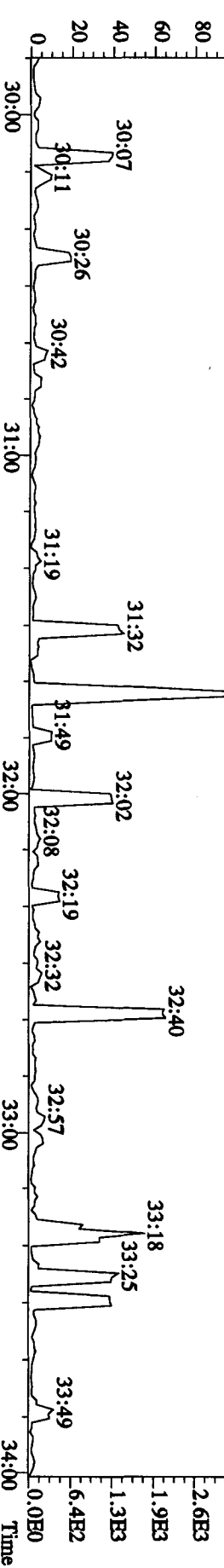
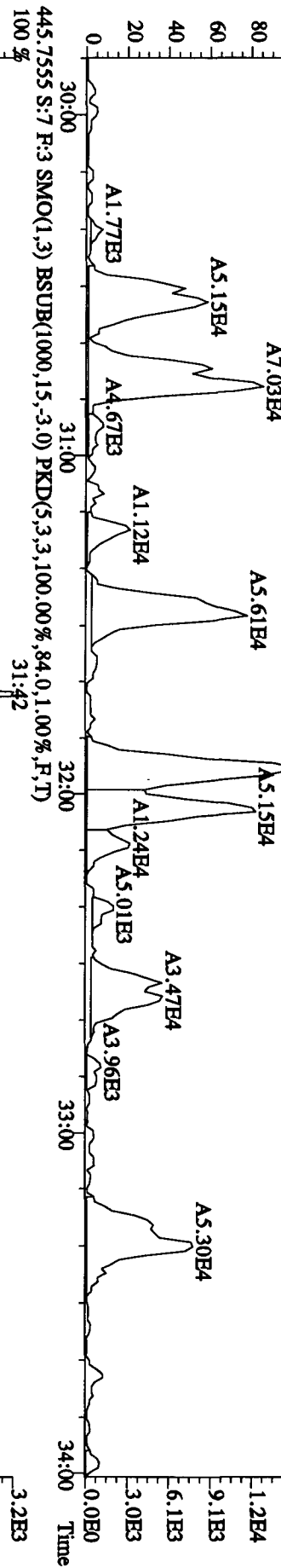
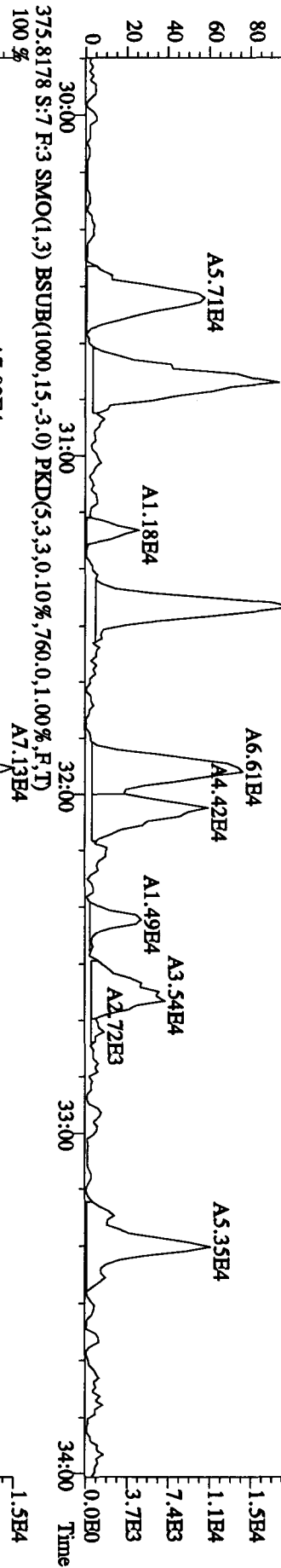
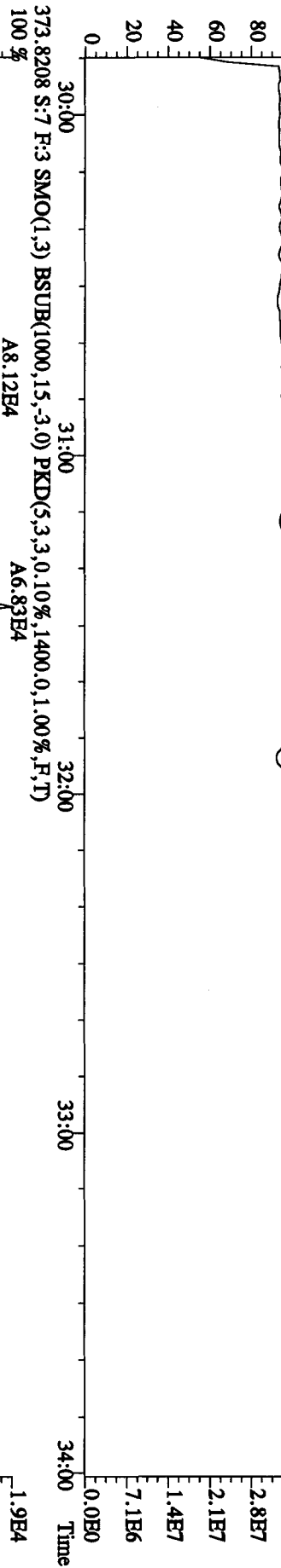


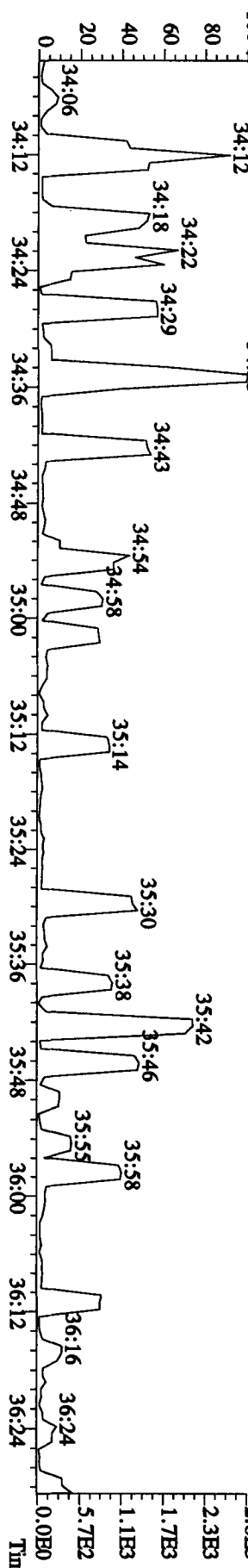
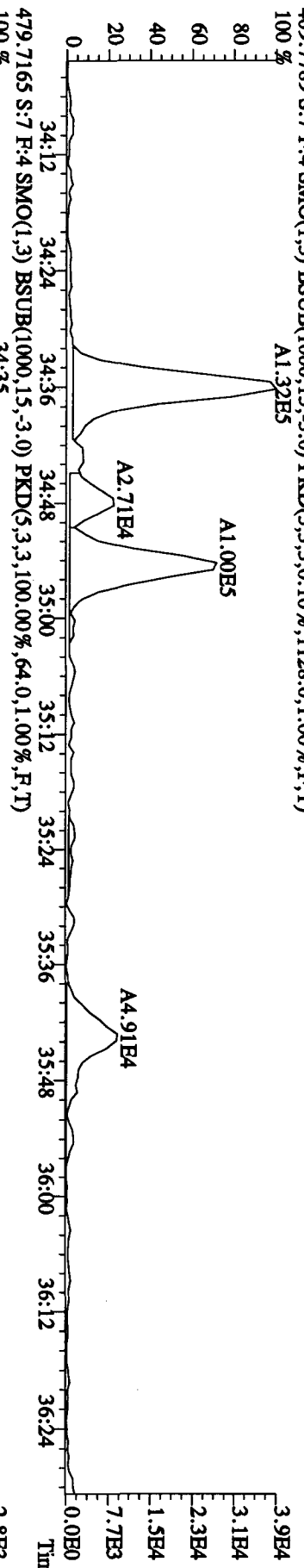
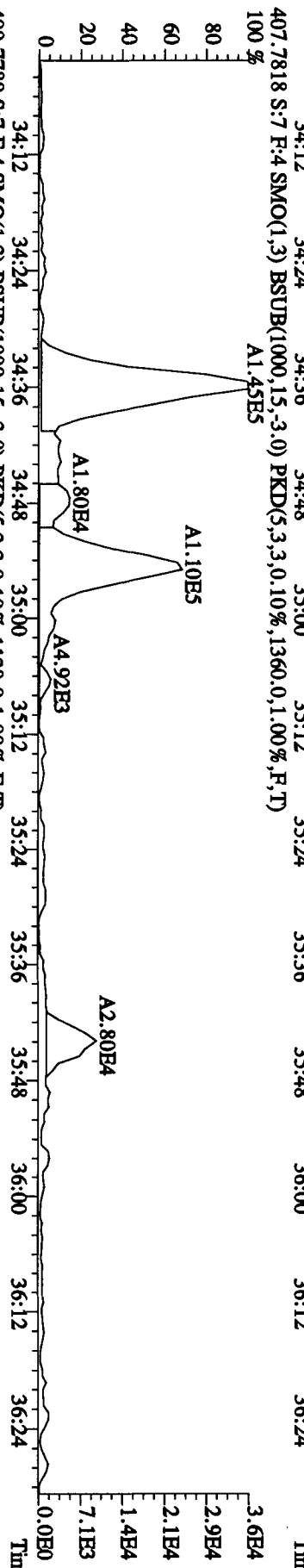
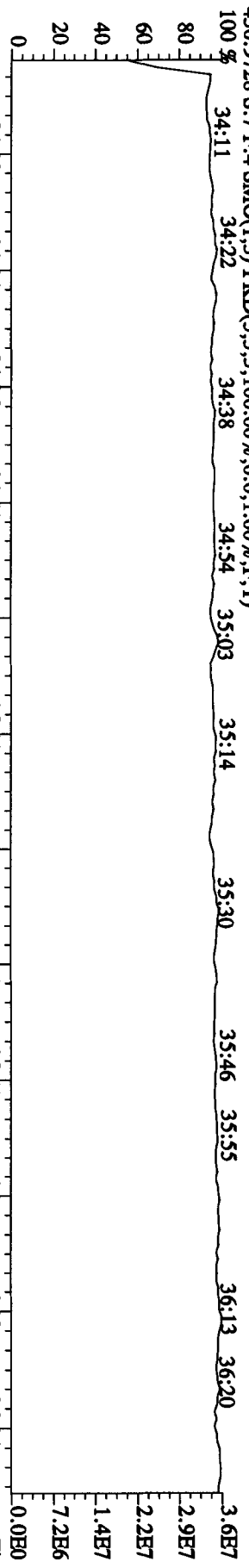


File:01MAY104D5 #1-604 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text:LXWV8-1-AA :G0DD130519-2 Exp:DIOXINRESS8290A

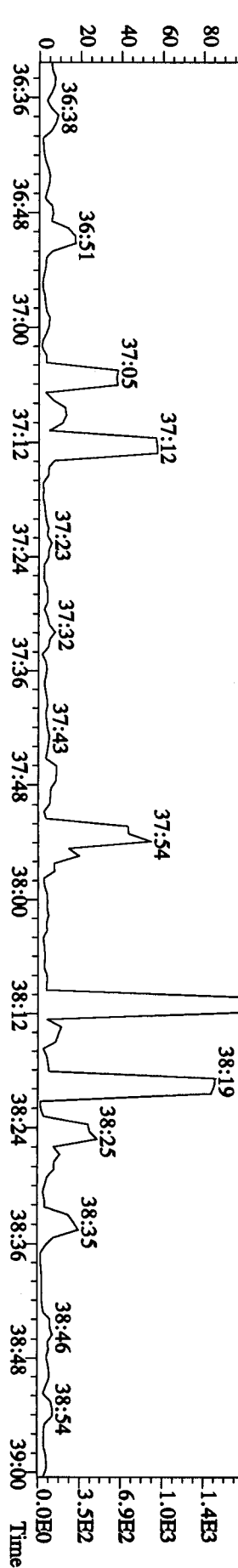
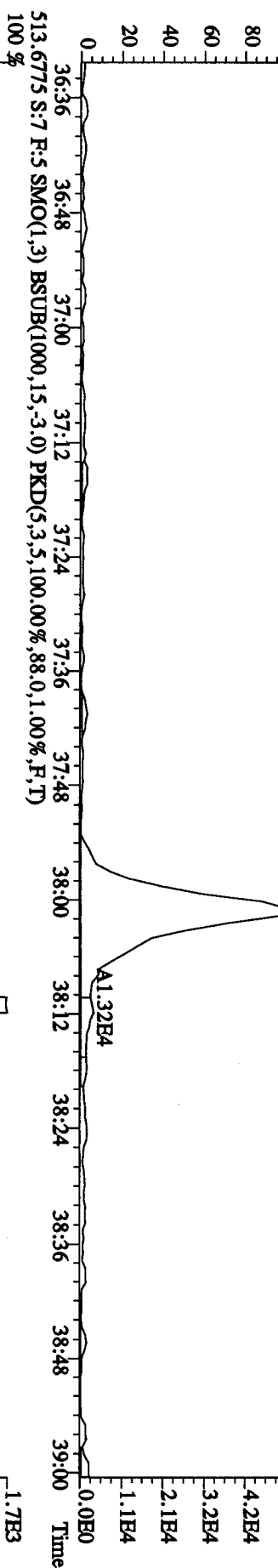
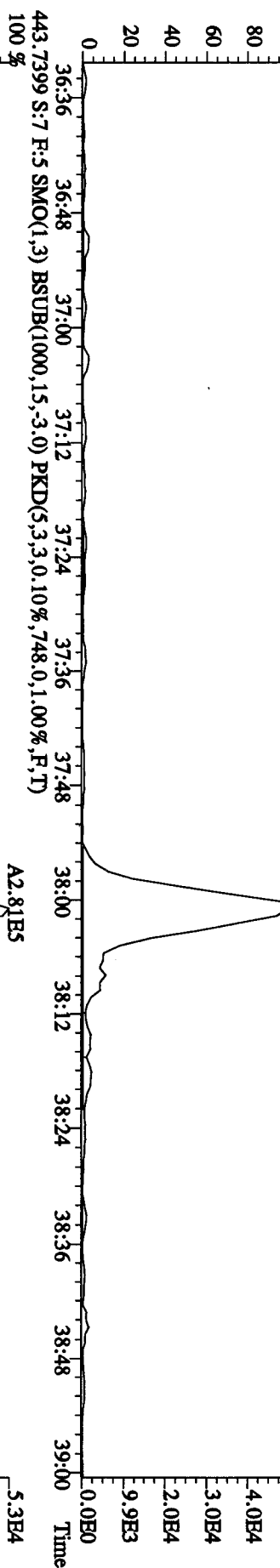
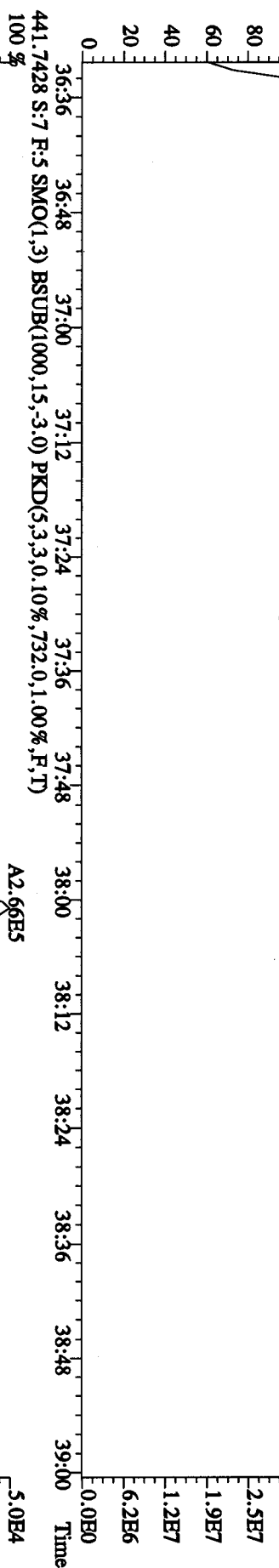


File:01MAY104D5 #1-317 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-UltraB
 Sample#7 Text:LXWV8-1-AA :G0D130519-2 Exp:DIOXINRES8290A
 430.9728 S:7 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 29:58 30:14 30:27 30:53 31:09 31:24 31:39 31:57 32:16 32:47 33:00 33:15 33:29 33:53 3.5E7





File:01MY104D5 #1-190 Acq: 1-MAY-2010 13:12:31 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#7 Text:LXWV8-1-AA :GOD130519-2 Exp:DIOXINRES8290A
 442.9728 S:7 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 36:37 36:47 36:57 37:10 37:26 37:41 37:54 38:10 38:23 38:40 38:52



(6)

Daily Calibration Checklist Dioxin Methods

Method ID 8290

Associated ICAL 8290A0412104B5

Column ID DB5

Instrument ID 4B5

STD ID ST0501, ST0501A

STD Solution 100XN111

Analyzed by AM, ME

Date Analyzed 5/1/10

Std. Pkg. By ME

Date Std. Pkg. Assembled 5/2/10

Std. Pkg. Reviewed By SMA

Date Std. Pkg. Reviewed 5/03/10

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

COMMENTS: _____

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

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

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

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

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

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

Run text: ST0501 File text: ST0501 :CS3 10DXN083
 Run #6 Filename 01MY104D5 S: 1 I: 1
 Acquired: 1-MAY-10 08:48:19 Processed: 2-MAY-10 09:21:44
 Run: 01MY104D5 Analyte: 8290A Cal: 8290A0412104D5 Results: 01MY104D58290A

Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	146739400	0.80 y	19:30	-	100.00	-	n
13C-2,3,7,8-TCDF	223821200	0.80 y	18:55	1.53	100.00	0.3	n
2,3,7,8-TCDF	21562170	0.79 y	18:56	0.96	10.00	1.9	n
Total TCDF	21750047	0.45 n	17:56	0.96	10.00	1.9	n
13C-2,3,7,8-TCDD	151633700	0.78 y	19:43	1.03	100.00	8.8	n
2,3,7,8-TCDD	14451400	0.78 y	19:44	0.95	10.00	-6.7	n
Total TCDD	14503234	0.68 y	18:28	0.95	10.00	-6.7	n
37Cl-2,3,7,8-TCDD	35955800	1.00 y	19:44	2.45	10.00	8.4	n
13C-1,2,3,7,8-PeCDF	152638100	1.56 y	24:34	1.04	100.00	-1.0	n
1,2,3,7,8-PeCDF	78056200	1.59 y	24:35	1.02	50.00	-2.1	n
2,3,4,7,8-PeCDF	74078500	1.56 y	26:05	0.97	50.00	-1.2	n
Total F2 PeCDF	154427192	1.67 y	23:00	1.00	100.00	-1.7	n
Total F1 PeCDF	16556	0.17 n	16:41	1.00	100.00	-1.7	n
13C-1,2,3,7,8-PeCDD	105170000	1.56 y	26:52	0.72	100.00	6.9	n
1,2,3,7,8-PeCDD	48270900	1.58 y	26:55	0.92	50.00	-6.5	n
Total PeCDD	48270900	1.58 y	26:55	0.92	50.00	-6.5	n
13C-1,2,3,7,8,9-HxCDD	120109000	1.27 y	33:05	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	109948300	0.52 y	31:55	0.92	100.00	-10.7	n
1,2,3,4,7,8-HxCDF	67922200	1.24 y	31:56	1.24	50.00	1.9	n
1,2,3,6,7,8-HxCDF	77606400	1.25 y	32:03	1.41	50.00	5.1	n
2,3,4,6,7,8-HxCDF	71115100	1.29 y	32:37	1.29	50.00	5.8	n
1,2,3,7,8,9-HxCDF	66383100	1.25 y	33:16	1.21	50.00	10.5	n
Total HxCDF	283136957	1.36 y	30:47	1.29	200.00	5.7	n
13C-1,2,3,6,7,8-HxCDD	109934000	1.27 y	32:49	0.92	100.00	13.4	n
1,2,3,4,7,8-HxCDD	44621900	1.28 y	32:45	0.81	50.00	-19.4	n
1,2,3,6,7,8-HxCDD	60062200	1.29 y	32:49	1.09	50.00	-1.9	n
1,2,3,7,8,9-HxCDD	60107100	1.28 y	33:06	1.09	50.00	-9.6	n
Total HxCDD	164791200	1.28 y	32:45	1.00	150.00	-10.0	n
13C-1,2,3,4,6,7,8-HpCDF	99562400	0.44 y	34:36	0.83	100.00	-3.9	n
1,2,3,4,6,7,8-HpCDF	63278700	0.96 y	34:36	1.27	50.00	-2.9	n
1,2,3,4,7,8,9-HpCDF	54417700	0.96 y	35:43	1.09	50.00	6.6	n
Total HpCDF	117696400	0.96 y	34:36	1.18	100.00	1.2	n
13C-1,2,3,4,6,7,8-HpCDD	95219600	1.05 y	35:24	0.79	100.00	13.7	n
1,2,3,4,6,7,8-HpCDD	49833600	1.05 y	35:25	1.05	50.00	-2.3	n
Total HpCDD	50059612	0.85 n	34:51	1.05	50.00	-2.3	n
13C-OCDD	134824700	0.90 y	37:53	0.56	200.00	5.6	n
OCDF	94262700	0.92 y	38:00	1.40	100.00	-3.3	n
OCDD	76243600	0.89 y	37:54	1.13	100.00	-3.0	n

Run text: ST0501A File text: ST0501A :CS3 10DXN083
 Run #20 Filename 01MY104D5 S: 18 I: 1
 Acquired: 1-MAY-10 21:17:02 Processed: 2-MAY-10 09:24:44
 Run: 01MY104D5 Analyte: 8290A Cal: 8290A0412104D5 Results: 01MY104D58290A

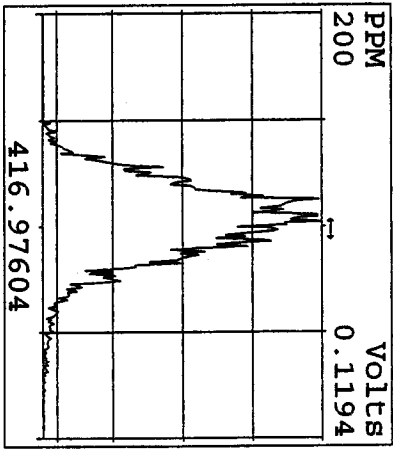
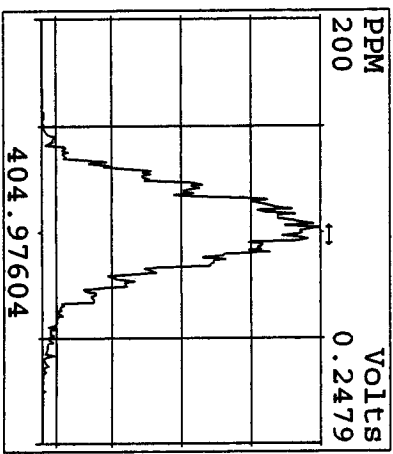
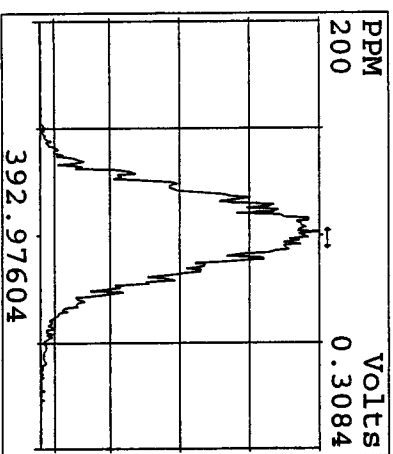
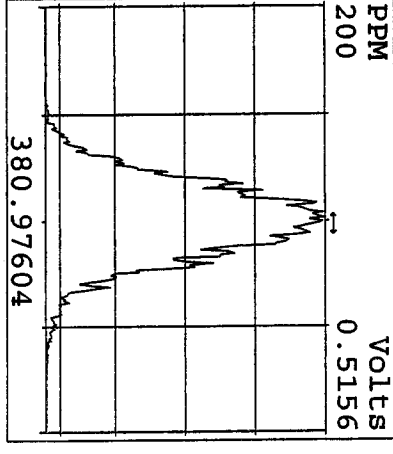
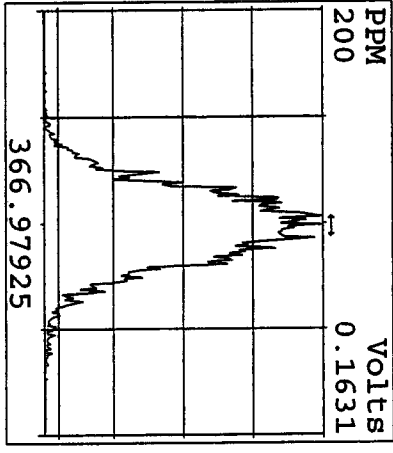
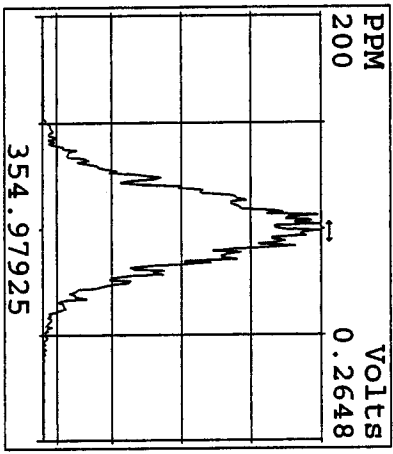
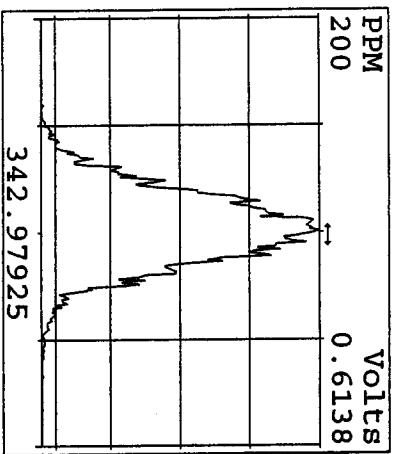
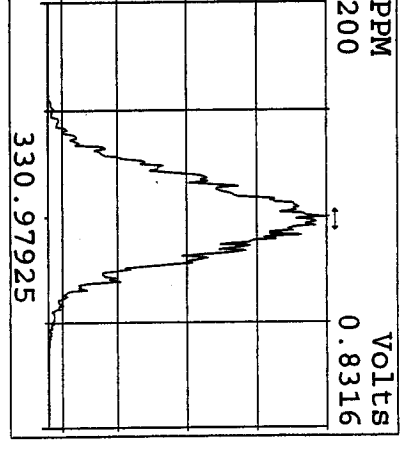
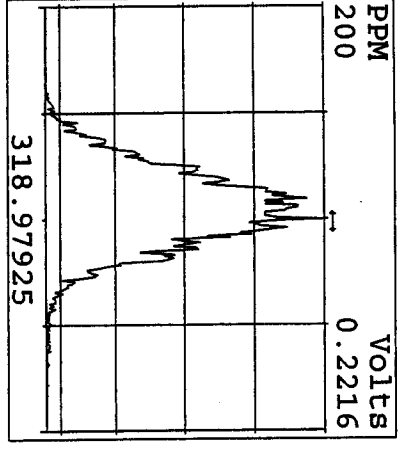
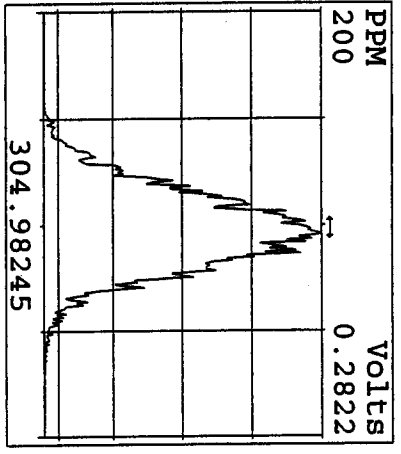
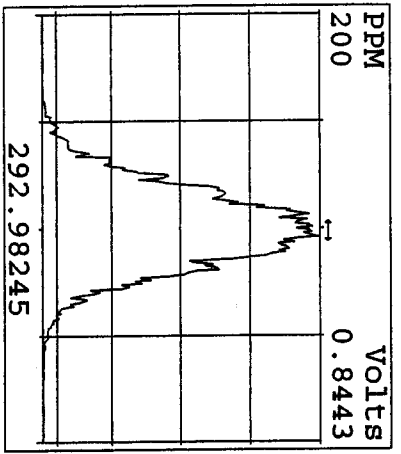
Name	Resp	RA	RT	RRF	Amount	Dev'n	Mod?
13C-1,2,3,4-TCDD	131130396	0.79 y	19:30	-	100.00	-	n
13C-2,3,7,8-TCDF	198713664	0.79 y	18:55	1.52	100.00	-0.4	n
2,3,7,8-TCDF	19000129	0.78 y	18:56	0.96	10.00	1.1	n
Total TCDF	19127788	0.75 y	18:31	0.96	10.00	1.1	n
13C-2,3,7,8-TCDD	133148476	0.79 y	19:43	1.02	100.00	6.9	n
2,3,7,8-TCDD	12720864	0.78 y	19:44	0.96	10.00	-6.4	n
Total TCDD	12758850	0.40 n	18:29	0.96	10.00	-6.4	n
37Cl-2,3,7,8-TCDD	31099532	1.00 y	19:44	2.37	10.00	4.9	n
13C-1,2,3,7,8-PeCDF	138798408	1.56 y	24:34	1.06	100.00	0.8	n
1,2,3,7,8-PeCDF	70849384	1.56 y	24:35	1.02	50.00	-2.3	n
2,3,4,7,8-PeCDF	69381910	1.56 y	26:05	1.00	50.00	1.8	n
Total F2 PeCDF	141199654	2.14 n	23:03	1.01	100.00	-0.3	n
Total F1 PeCDF	33211	0.22 n	16:08	1.01	100.00	-0.3	n
13C-1,2,3,7,8-PeCDD	99650396	1.53 y	26:53	0.76	100.00	13.3	n
1,2,3,7,8-PeCDD	46069956	1.56 y	26:55	0.92	50.00	-5.8	n
Total PeCDD	46069956	1.56 y	26:55	0.92	50.00	-5.8	n
13C-1,2,3,7,8,9-HxCDD	104729540	1.27 y	33:05	-	100.00	-	n
13C-1,2,3,4,7,8-HxCDF	99279104	0.52 y	31:55	0.95	100.00	-7.5	n
1,2,3,4,7,8-HxCDF	61254934	1.25 y	31:56	1.23	50.00	1.8	n
1,2,3,6,7,8-HxCDF	69040610	1.28 y	32:03	1.39	50.00	3.6	n
2,3,4,6,7,8-HxCDF	64003716	1.27 y	32:37	1.29	50.00	5.5	n
1,2,3,7,8,9-HxCDF	57404352	1.29 y	33:17	1.16	50.00	5.9	n
Total HxCDF	251807041	0.91 n	30:47	1.27	200.00	4.1	n
13C-1,2,3,6,7,8-HxCDD	87238456	1.29 y	32:50	0.83	100.00	3.2	n
1,2,3,4,7,8-HxCDD	40690090	1.27 y	32:46	0.93	50.00	-7.3	n
1,2,3,6,7,8-HxCDD	54351886	1.31 y	32:50	1.25	50.00	11.9	n
1,2,3,7,8,9-HxCDD	53360746	1.27 y	33:06	1.22	50.00	1.2	n
Total HxCDD	148402722	1.27 y	32:46	1.13	150.00	2.2	n
13C-1,2,3,4,6,7,8-HpCDF	87798028	0.44 y	34:36	0.84	100.00	-2.8	n
1,2,3,4,6,7,8-HpCDF	56057650	0.95 y	34:37	1.28	50.00	-2.5	n
1,2,3,4,7,8,9-HpCDF	46674540	0.96 y	35:44	1.06	50.00	3.7	n
Total HpCDF	102732190	0.95 y	34:37	1.17	100.00	0.2	n
13C-1,2,3,4,6,7,8-HpCDD	78724988	1.06 y	35:24	0.75	100.00	7.8	n
1,2,3,4,6,7,8-HpCDD	41106808	1.03 y	35:25	1.04	50.00	-2.6	n
Total HpCDD	41587659	1.27 n	34:51	1.04	50.00	-2.6	n
13C-OCDD	119042964	0.91 y	37:54	0.57	200.00	7.0	n
OCDF	82960652	0.92 y	38:01	1.39	100.00	-3.6	n
OCDD	68190198	0.89 y	37:54	1.15	100.00	-1.8	n

data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
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01MY104D5	3	SB0501	Solvent Blank C-14				1.00000	
01MY104D5	4	LX3LQ-1-AA	G0D160000-253B	20	8290/WATER	72	1.00000	L
01MY104D5	5	LX3LQ-1-AC	G0D160000-253C	20	8290/WATER		1.00000	L
01MY104D5	6	LXWV7-1-AA	G0D130519-1	10	8290/WATER		1.03350	L
01MY104D5	7	LXWV8-1-AA	G0D130519-2	10	8290/WATER		1.03380	L
01MY104D5	8	LOAHX-1-AC	G0D210000-312C	10	8290/WATER	78	1.00000	L
01MY104D5	9	LOAHX-1-AA	G0D210000-312B	10	8290/WATER		1.00000	L
01MY104D5	10	LX2FJ-1-AA	G0D150582-1	10	8290/WATER		0.97230	L
01MY104D5	11	LX2FN-1-AA	G0D150582-2	10	8290/WATER		0.97411	L
01MY104D5	12	LXOM3-1-AA	G0D140534-1	10	8290/WATER	75	1.00480	L
01MY104D5	13	LXOM5-1-AA	G0D140534-2	10	8290/WATER		0.99770	L
01MY104D5	14	LXOM6-1-AA	G0D140534-3	10	8290/WATER		0.94920	L
01MY104D5	15	LX2G1-1-AD	G0D150589-9	10	8290/SOLID	75	10.24000	g
01MY104D5	16	LX2JT-1-AD	G0D150589-36	10	8290/SOLID		10.00000	g
01MY104D5	17	SB0501A	Solvent Blank C-14				1.00000	
01MY104D5	18	ST0501A	CS3 10DXN083				1.00000	
01MY104D5	19	CP0501A	DB-5 CPSM 3732-05				1.00000	
01MY104D5	20	SB0501B	Solvent Blank C-14				1.00000	
01MY104D5	21	L0LW7-1-AA	G0D270000-429B	20	8290/WATER	84	1.00000	L
01MY104D5	22	L0LW7-1-AC	G0D270000-429C	20	8290/WATER		1.00000	L
01MY104D5	23	L0J0P-1-AC	G0D260486-1	20	8290/WATER		1.00490	L
01MY104D5	24	L0J0R-1-AC	G0D260486-2	20	8290/WATER		0.96380	L
01MY104D5	25	L0J0T-1-AC	G0D260486-3	20	8290/WATER		1.00150	L
01MY104D5	26	L0J0V-1-AC	G0D260486-4	20	8290/WATER		1.00460	L
01MY104D5	27	L0J00-1-AD	G0D260486-6	20	8290/SOLID		10.11000	g
01MY104D5	28	L0J01-1-AD	G0D260486-7	20	8290/SOLID		10.09000	g
01MY104D5	29	L0J03-1-AD	G0D260486-8	20	8290/SOLID		10.20000	g
01MY104D5	30	L0J04-1-AD	G0D260486-9	20	8290/SOLID		10.16000	g
01MY104D5	31	L0J05-1-AD	G0D260486-10	20	8290/SOLID		10.24000	g
01MY104D5	32	L0J06-1-AD	G0D260486-11	20	8290/SOLID		10.32000	g
01MY104D5	33	SB0501C	Solvent Blank C-14				1.00000	
01MY104D5	34	ST0501B	CS3 10DXN083				1.00000	
01MY104D5	35	CP0501B	DB-5 CPSM 3732-05				1.00000	
01MY104D5	36	SB0501D	Solvent Blank C-14				1.00000	
01MY104D5	37	L0J08-1-AD	G0D260486-12	20	8290/SOLID	ms 84	10.07000	g
01MY104D5	38	L0J09-1-AD	G0D260486-13	20	8290/SOLID		10.25000	g
01MY104D5	39	L0J1A-1-AD	G0D260486-14	20	8290/SOLID		10.58000	g
01MY104D5	40	L0J1C-1-AD	G0D260486-15	20	8290/SOLID		10.39000	g
01MY104D5	41	L0J1D-1-AD	G0D260486-16	20	8290/SOLID		10.16000	g
01MY104D5	42	L0J1F-1-AD	G0D260486-17	20	8290/SOLID		10.19000	g
01MY104D5	43	L0J1G-1-AD	G0D260486-18	20	8290/SOLID		10.17000	g
01MY104D5	44	L0J1H-1-AD	G0D260486-19	20	8290/SOLID		10.35000	g
01MY104D5	45	L0J1J-1-AD	G0D260486-20	20	8290/SOLID		10.14000	g
01MY104D5	46	L0J1K-1-AD	G0D260486-21	20	8290/SOLID		10.22000	g
01MY104D5	47	L0J1L-1-AD	G0D260486-22	20	8290/SOLID		10.44000	g
01MY104D5	48	L0J1M-1-AD	G0D260486-23	20	8290/SOLID		10.11000	g
01MY104D5	49	SB0501E	Solvent Blank C-14				1.00000	
01MY104D5	50	ST0501C	CS3 10DXN083				1.00000	
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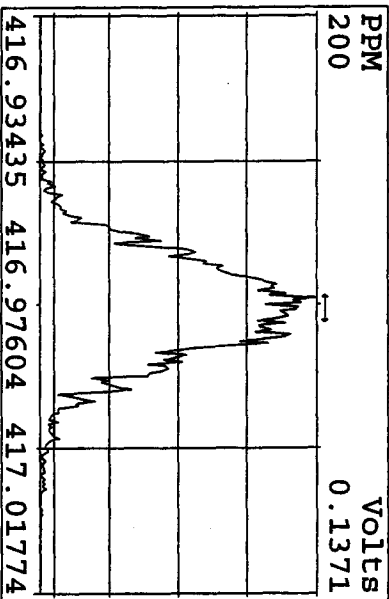
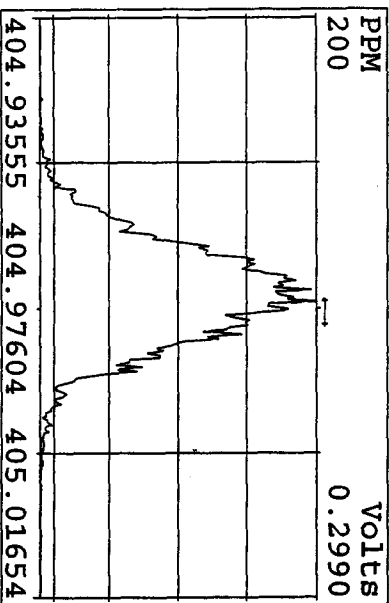
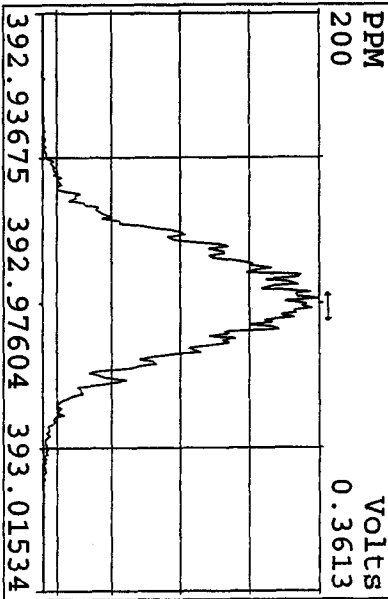
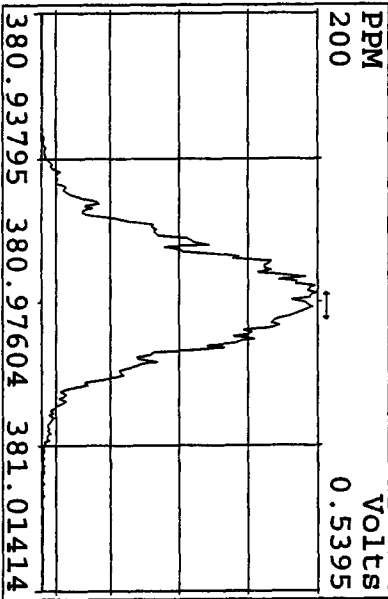
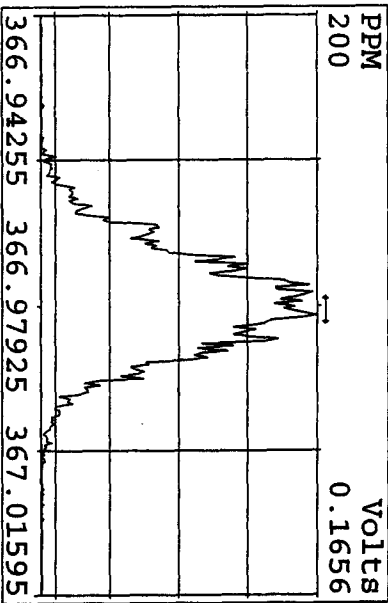
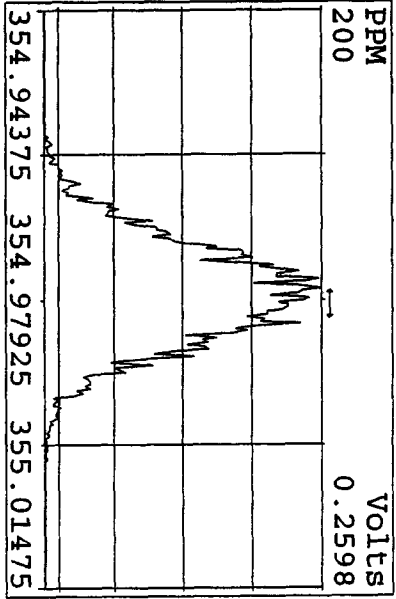
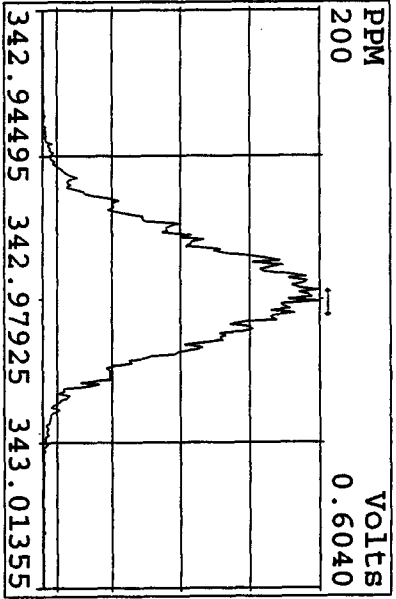
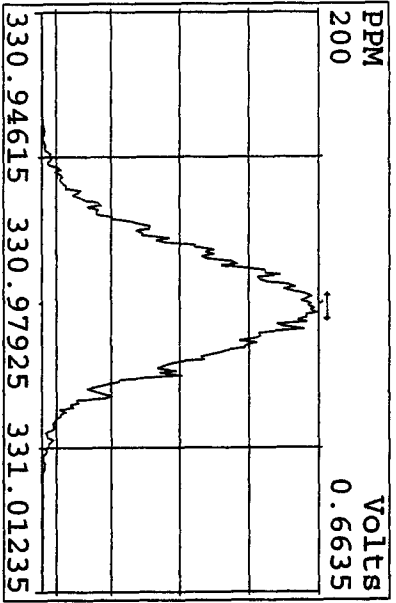
MG, AM 05-01-10

log file 1/10
5/2/10 ms

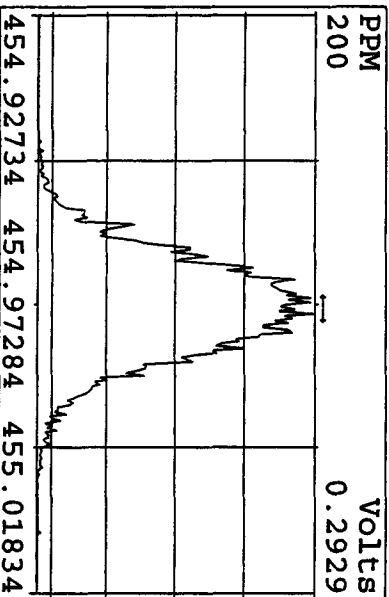
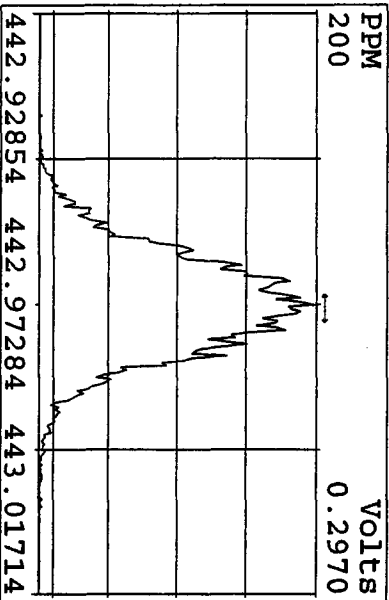
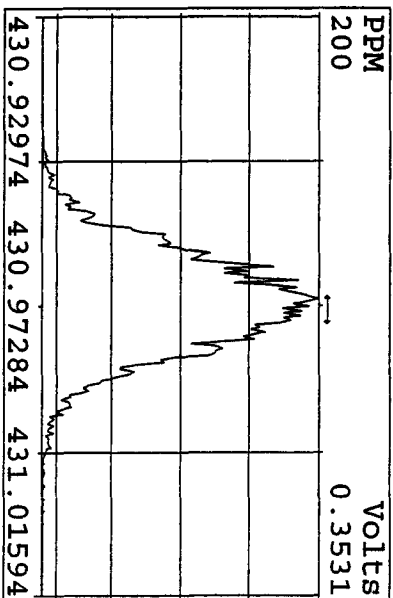
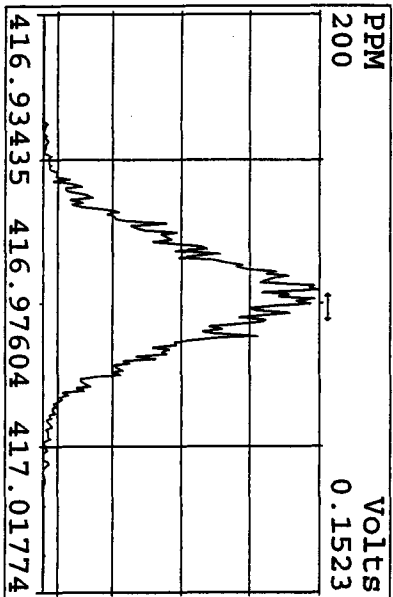
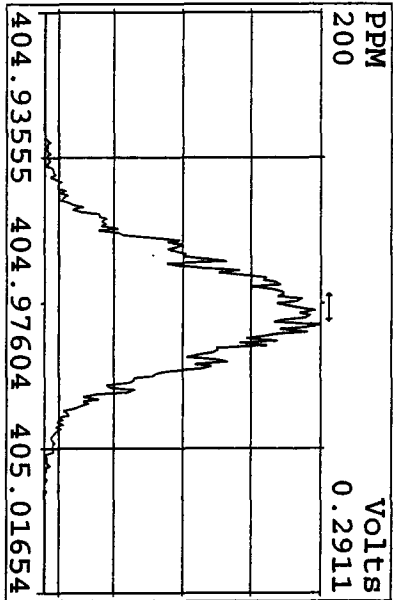
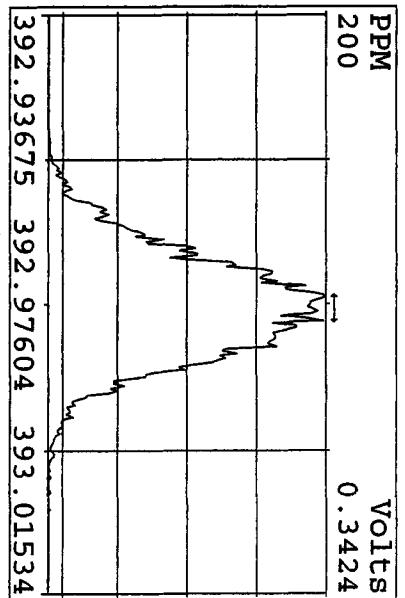
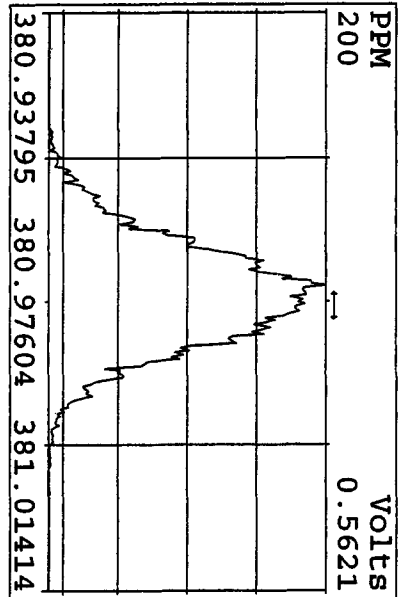
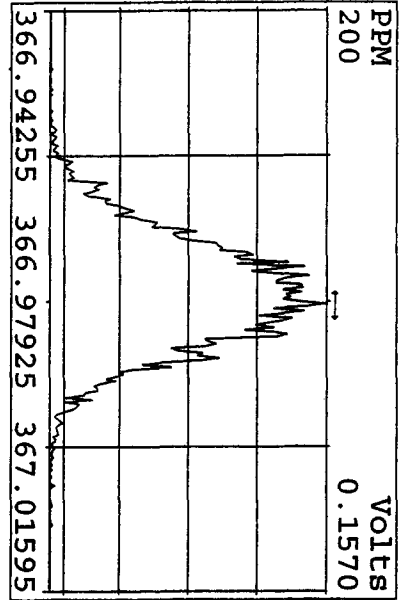
Peak Locate Examination: 1-MAY-2010:08:45 File:01MY104D5
Experiment:DIOXINRES8290A Function:1 Reference:PFK



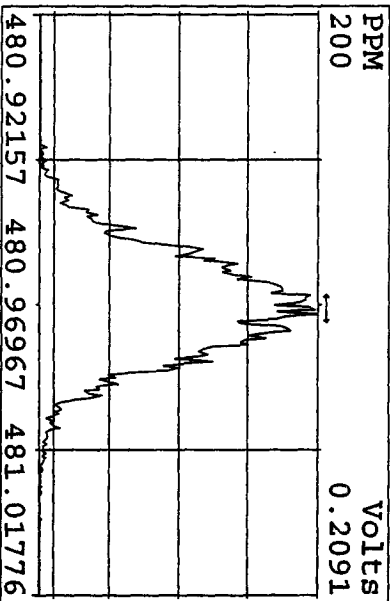
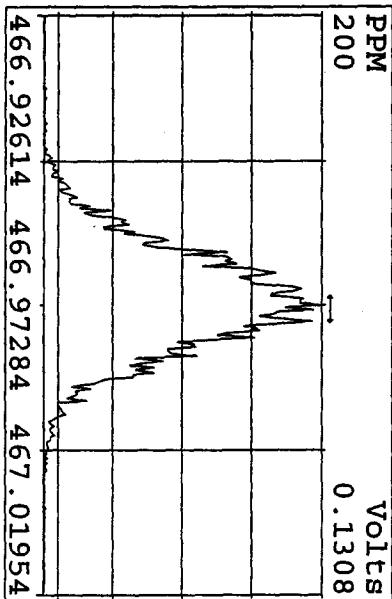
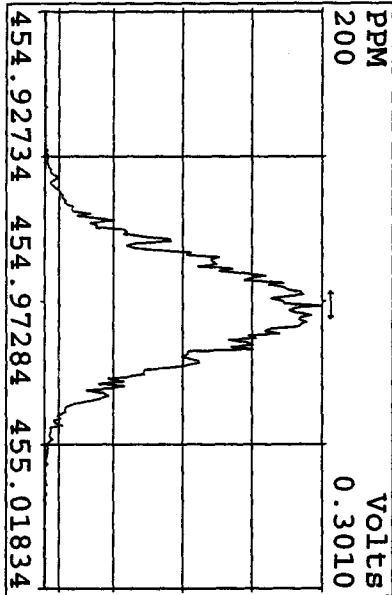
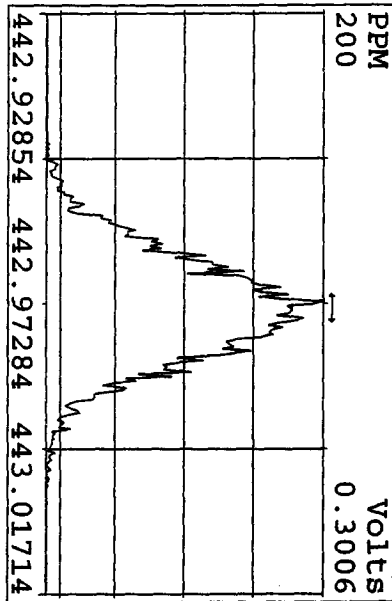
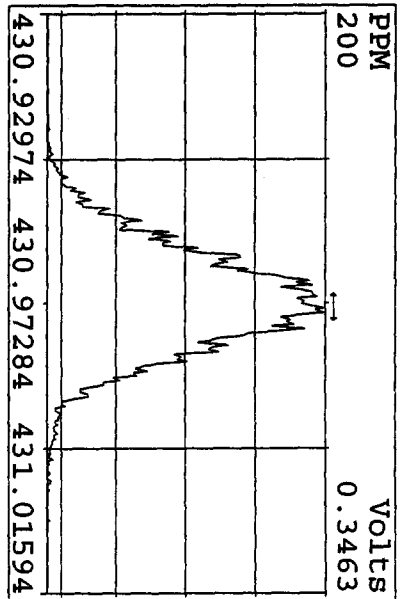
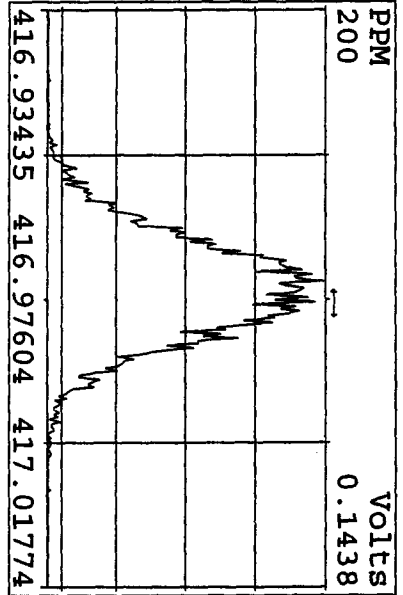
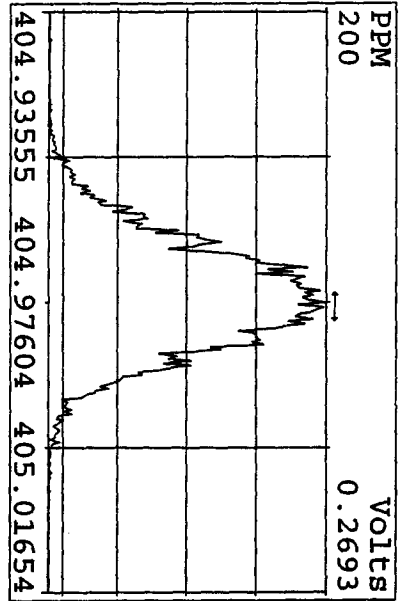
Peak Locate Examination: 1-MAY-2010:08:46 File:01MY104D5
 Experiment: DIOXINRES8290A Function: 2 Reference: PFK



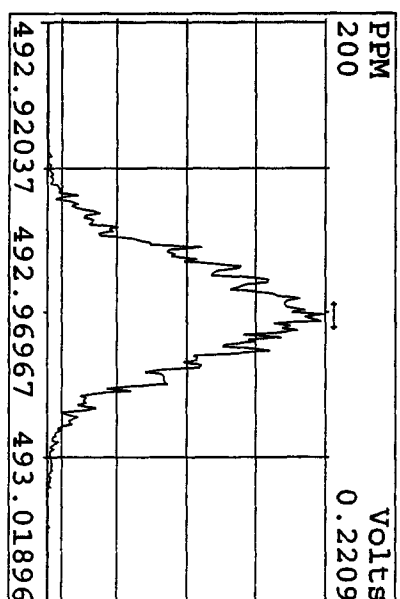
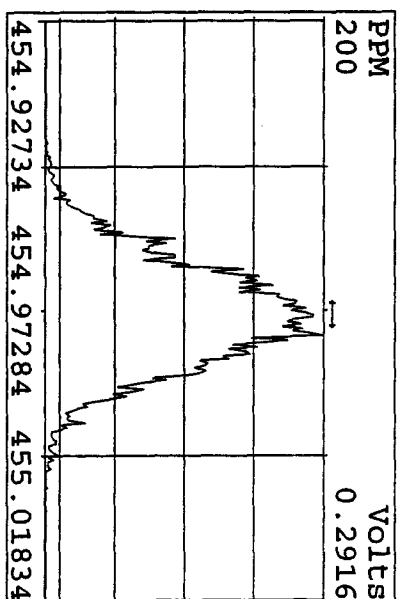
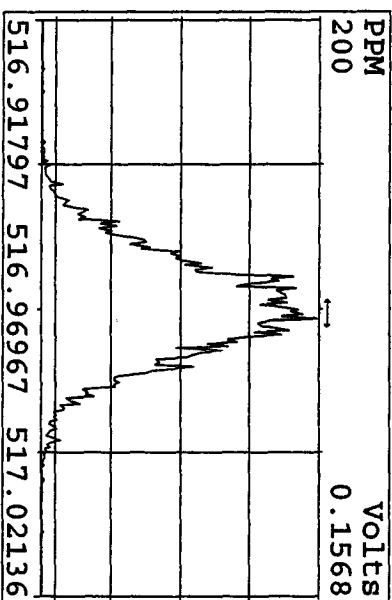
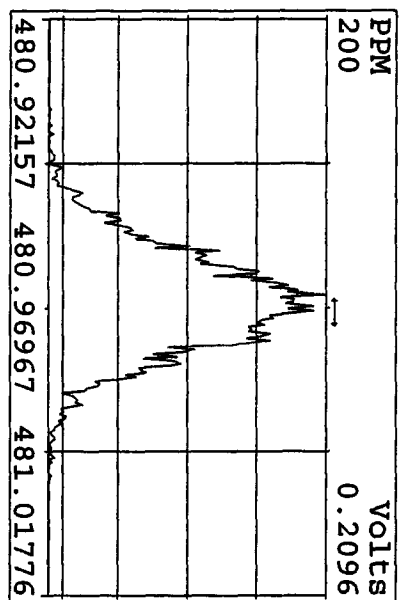
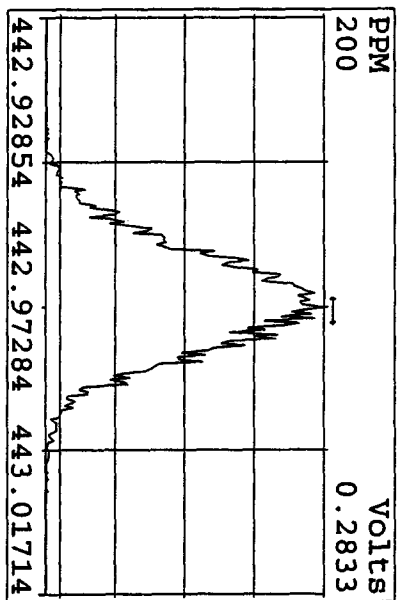
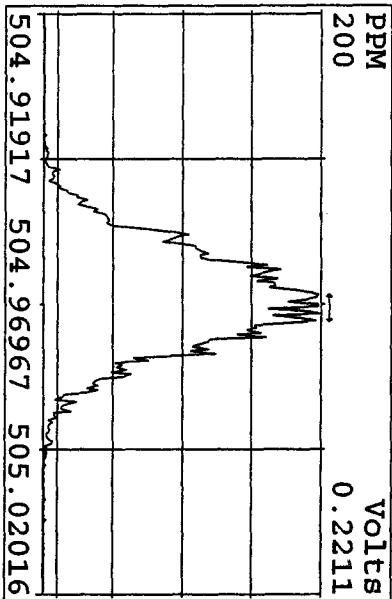
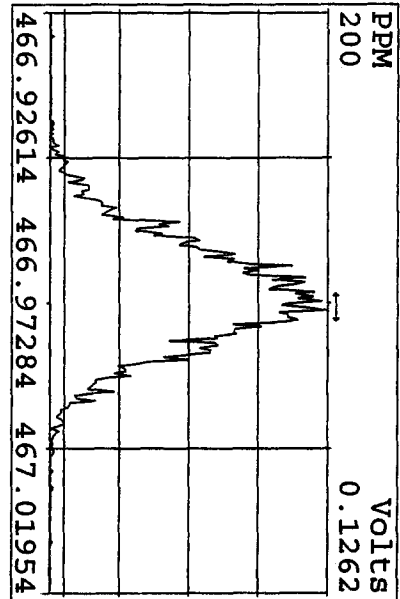
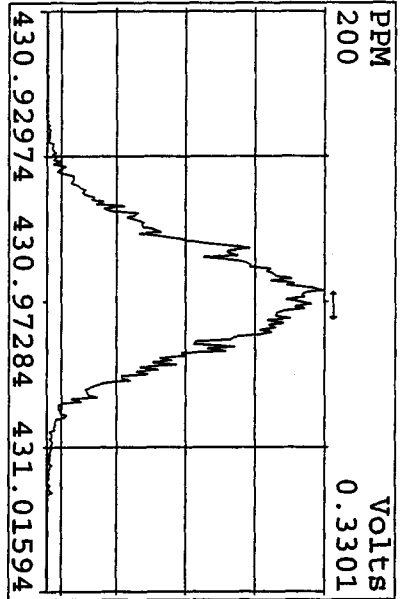
Peak Locate Examination: 1-MAY-2010:08:46 File:01MY104D5
 Experiment:DIOXINRES8290A Function:3 Reference:PRK



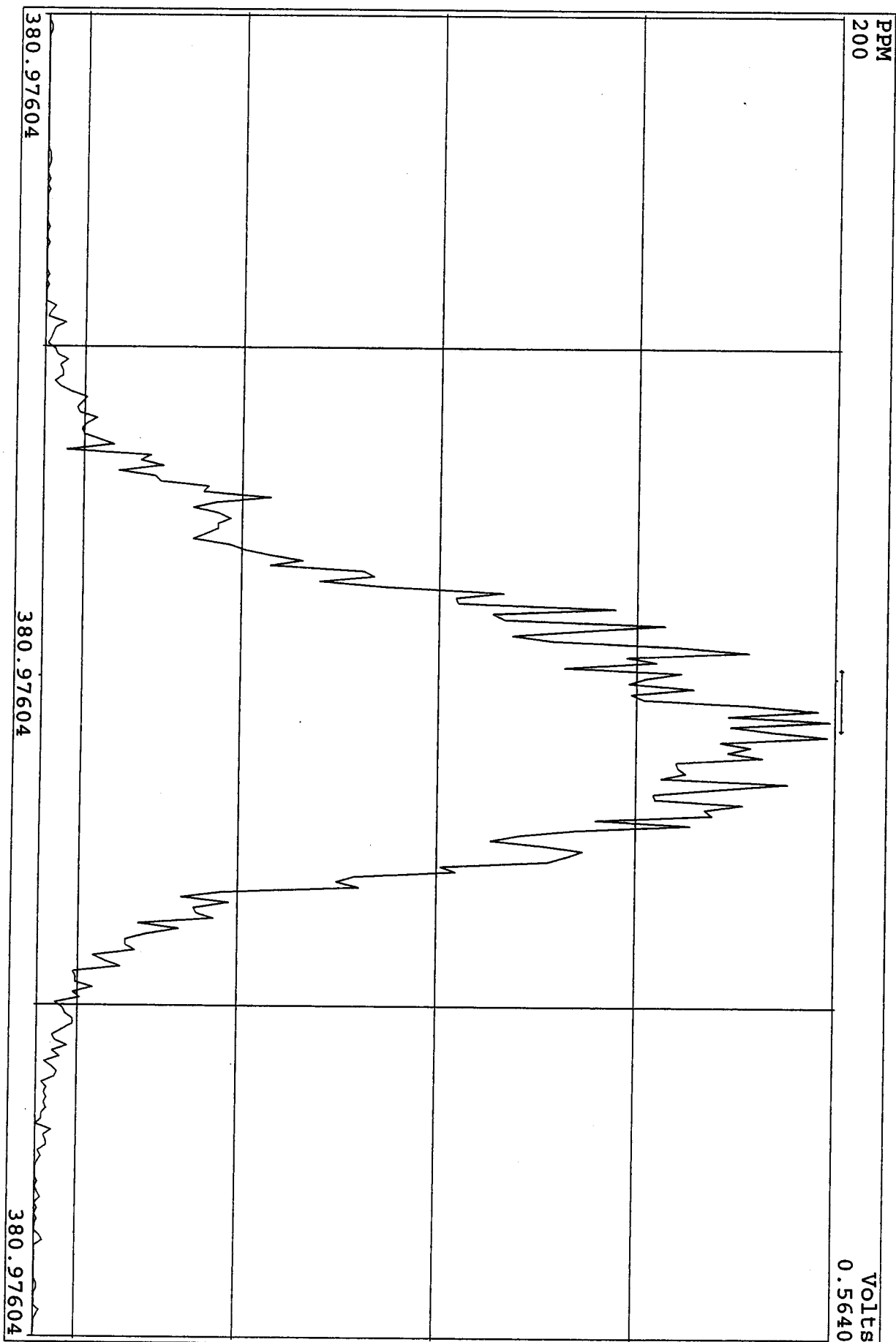
Peak Locate Examination: 1-MAY-2010:08:46 File:01MY104D5
 Experiment:DIOXINRES8290A Function:4 Reference:PFK



Peak Locate Examination: 1-MAY-2010:08:47 File:01MY104D5
 Experiment:DIOXINRES8290A Function:5 Reference:PFK



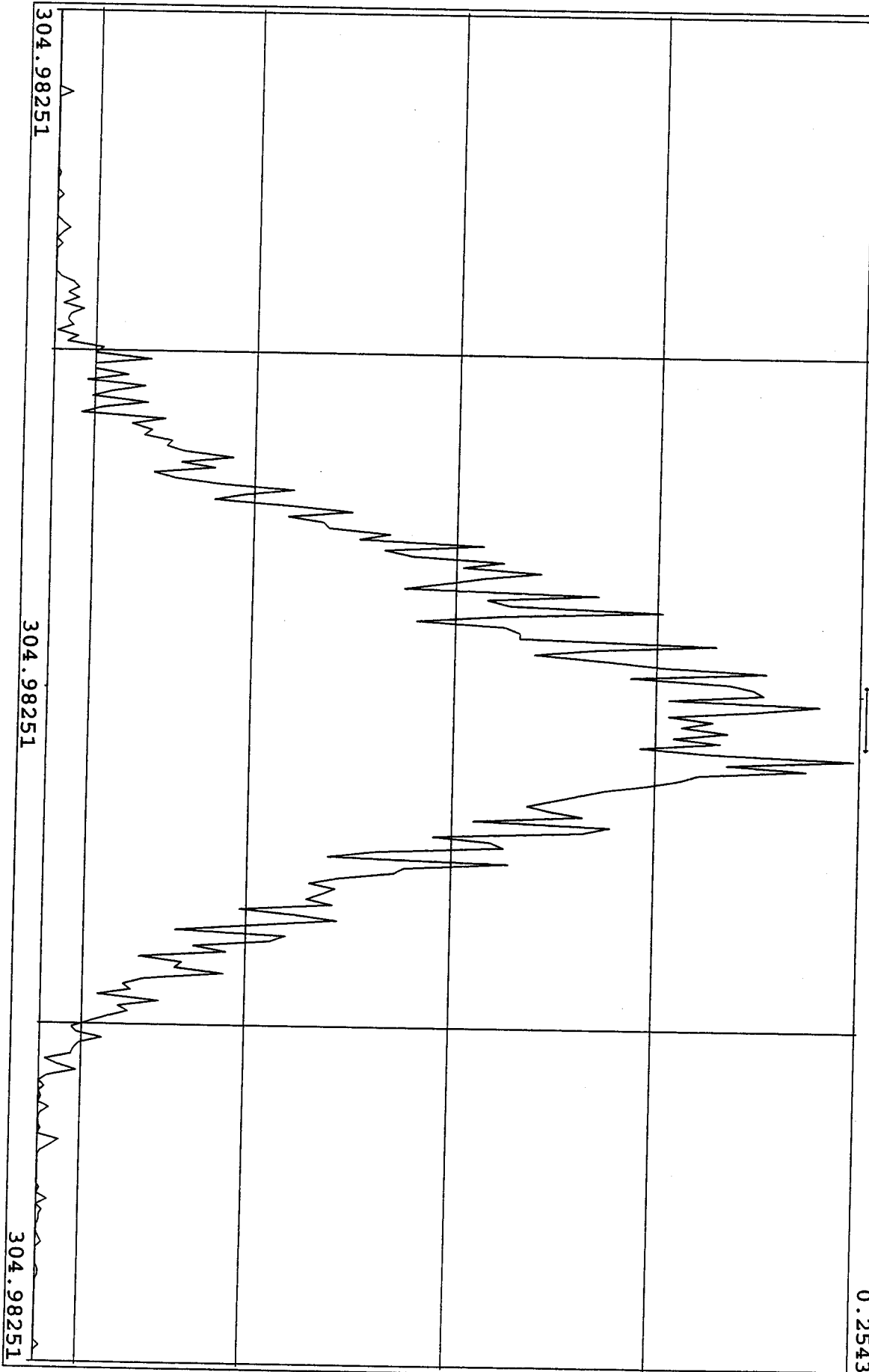
SIRLM Examination: 1-MAY-2010:19:01 File:01MY104D5
Experiment:DIOXINRES8290A Function:6



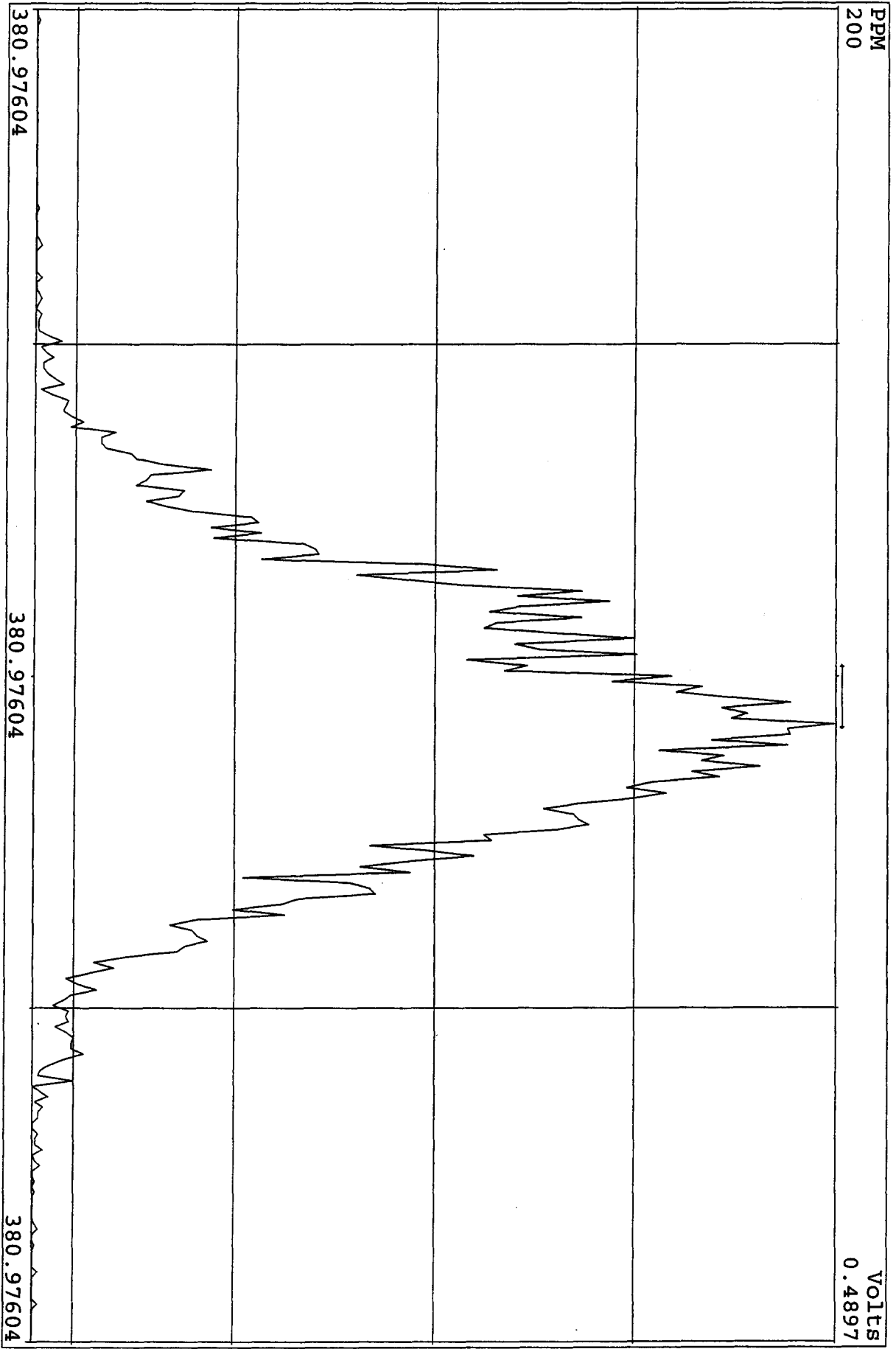
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Experiment:DIOXINRES8290A Function:7

PPM
200

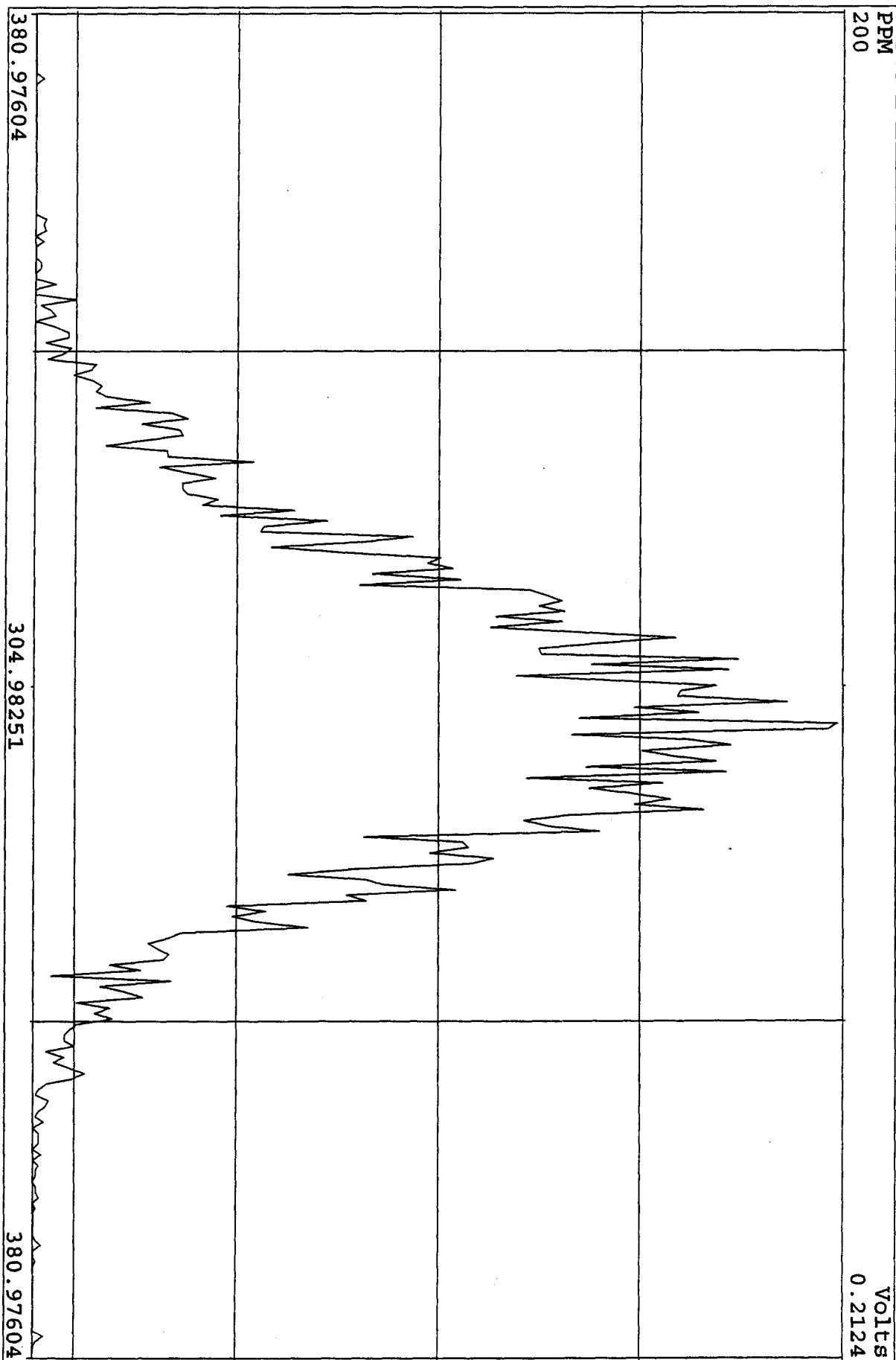
VOLTS
0.2543



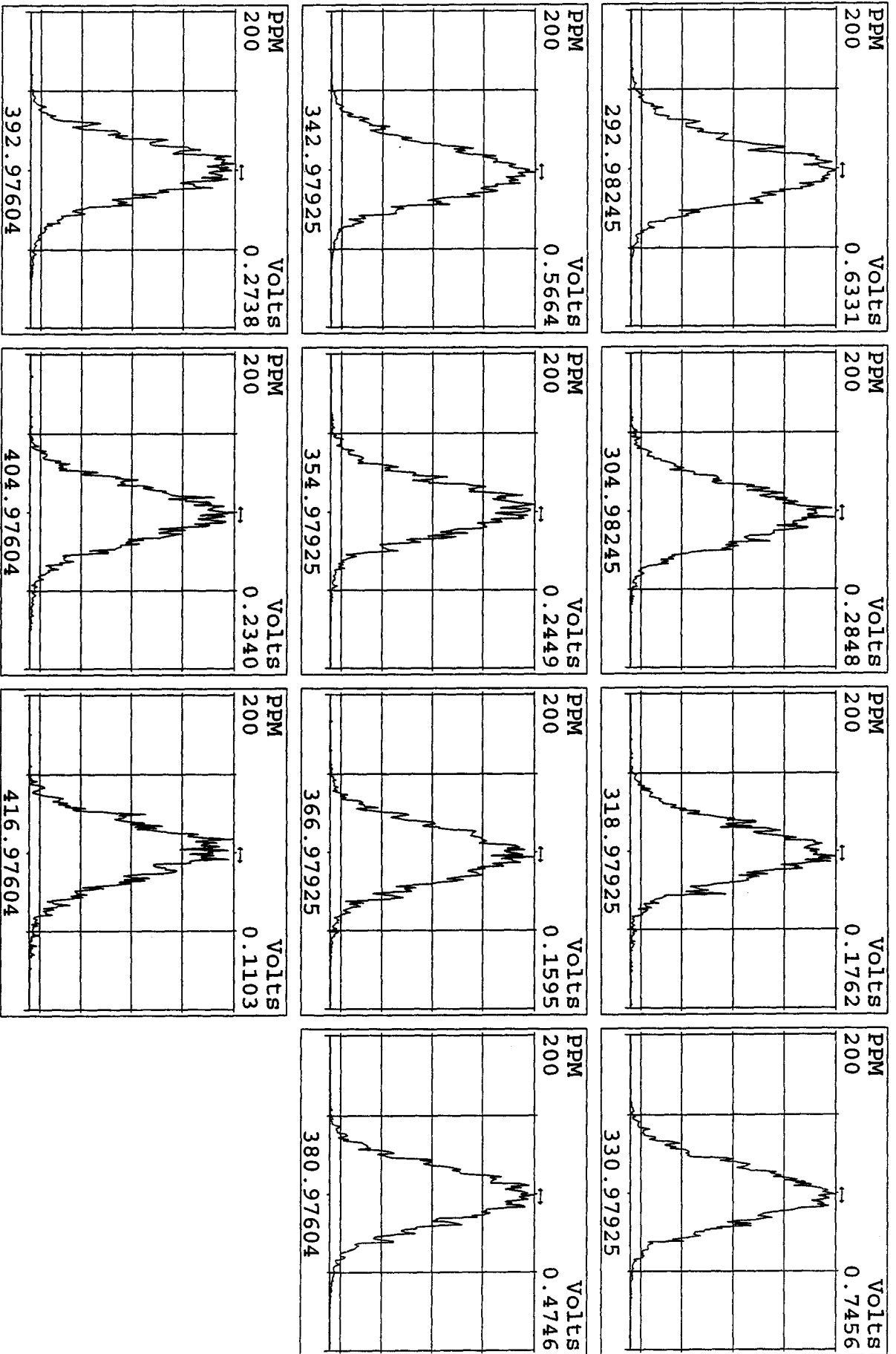
SIRLM Examination: 1-MAY-2010:22:42 File:01MY104D5
Experiment:DIOXINRES8290A Function:6



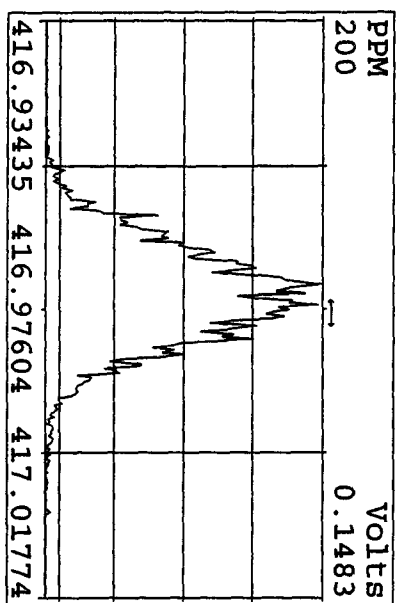
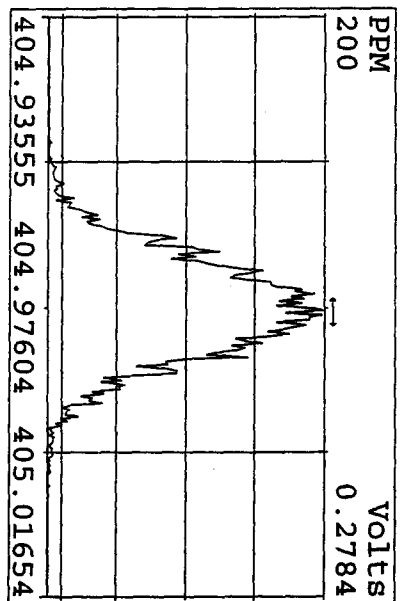
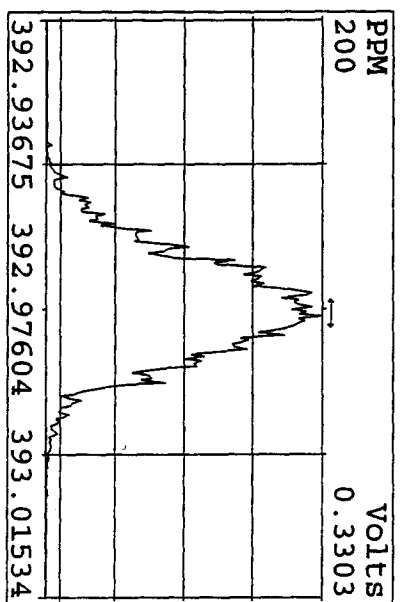
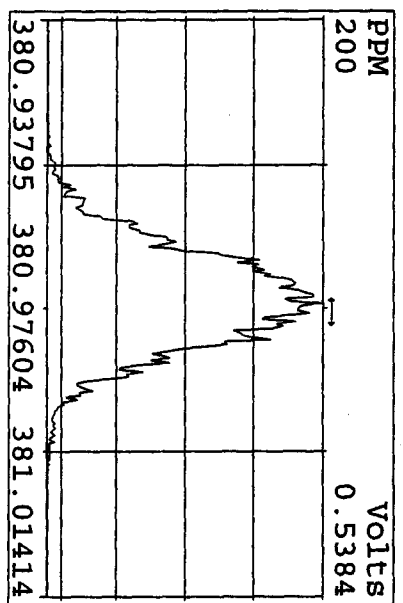
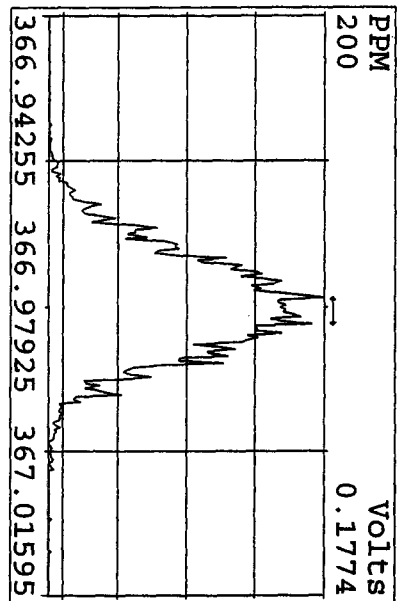
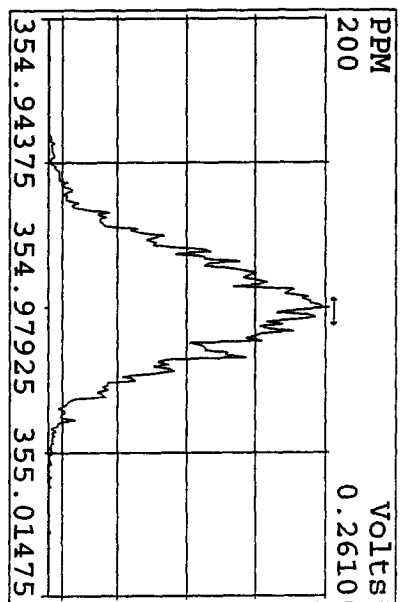
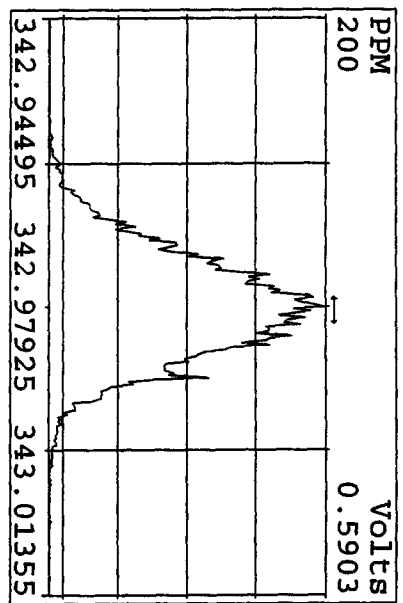
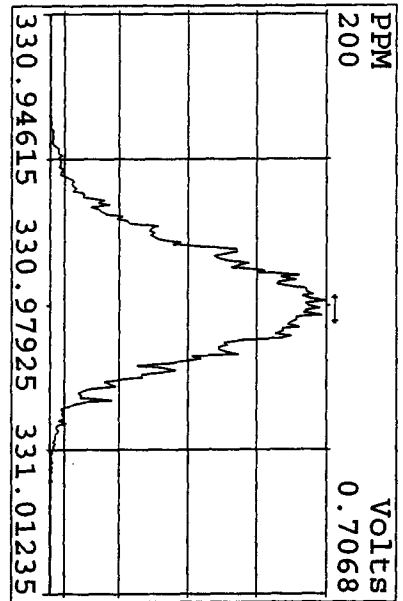
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Experiment: DIOXINRES8290A Function: 7



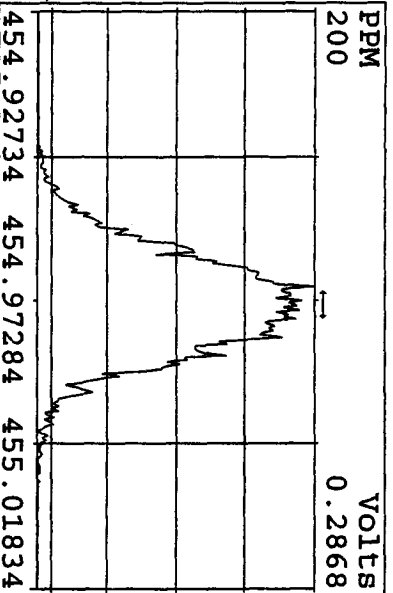
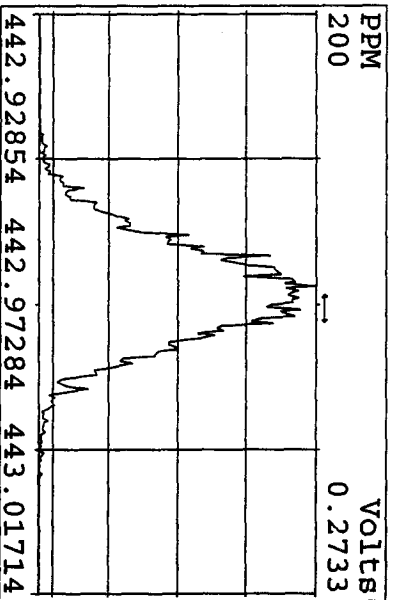
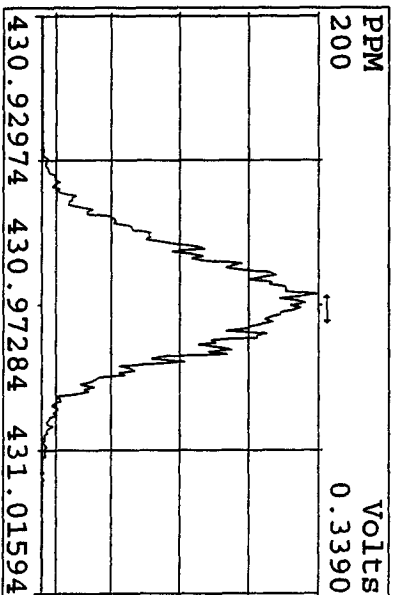
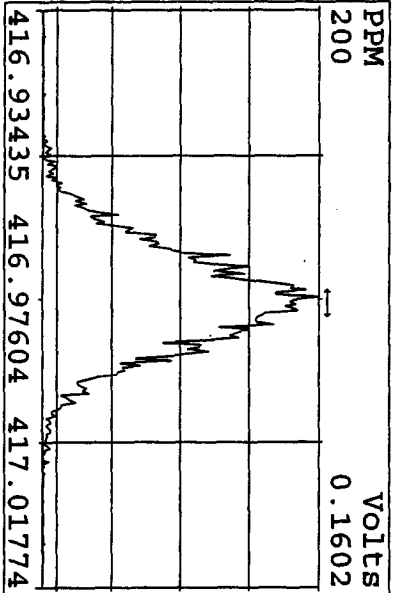
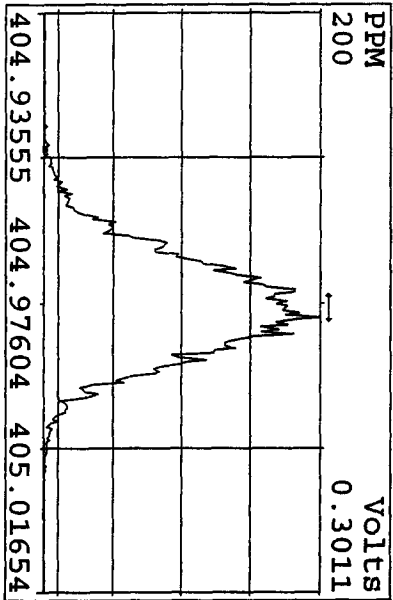
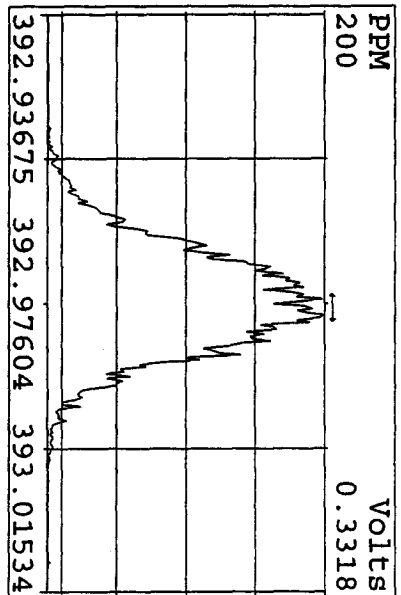
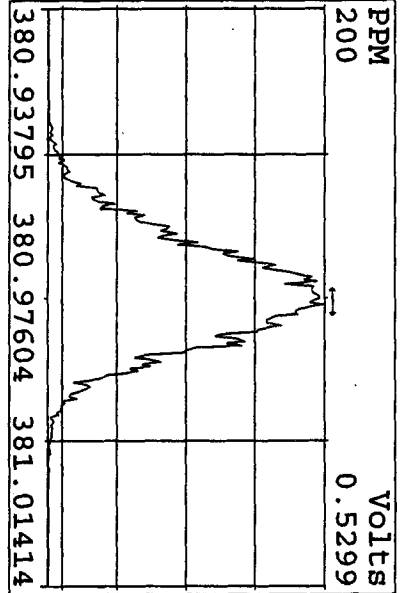
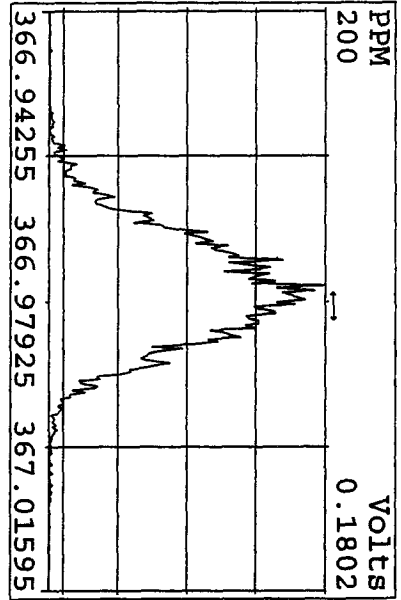
Peak Locate Examination: 2-MAY-2010:08:00 File:01MY104D5ENDRES
Experiment:DIOXINRES8290A Function:1 Reference:PFK



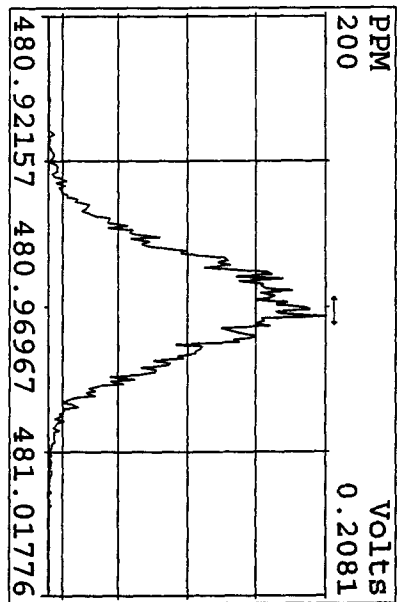
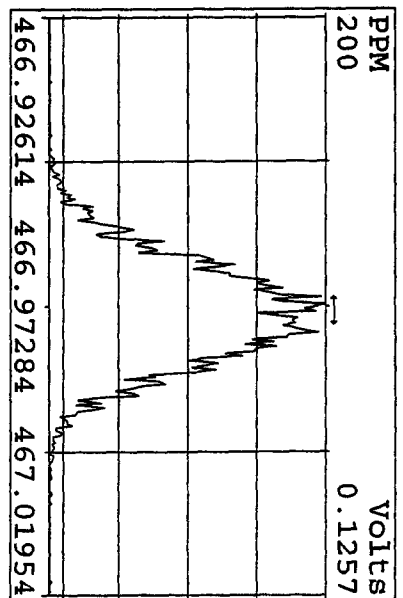
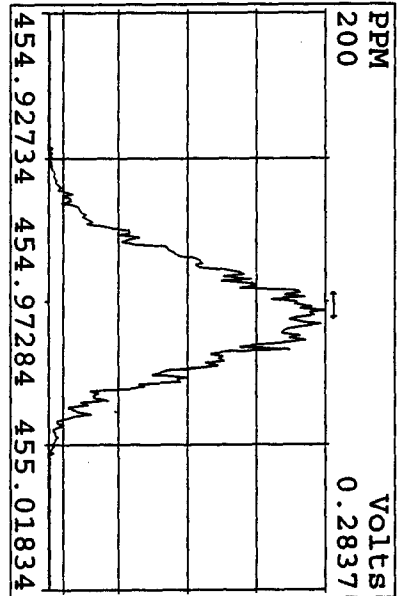
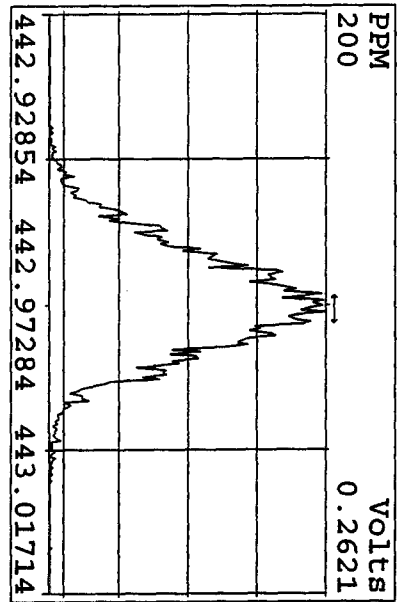
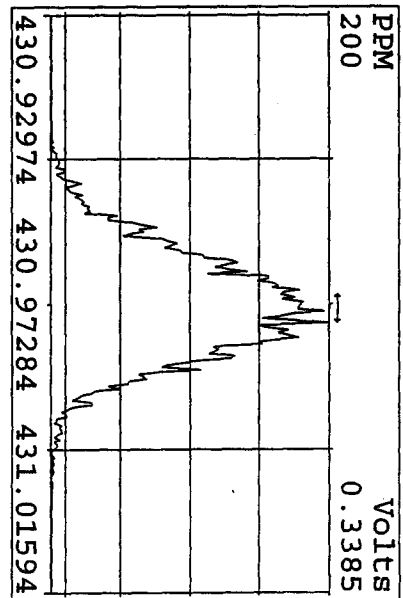
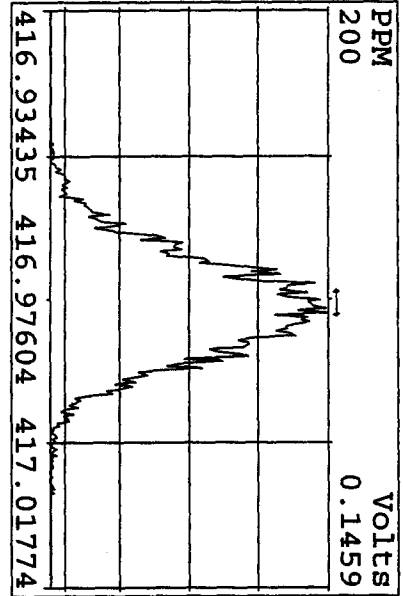
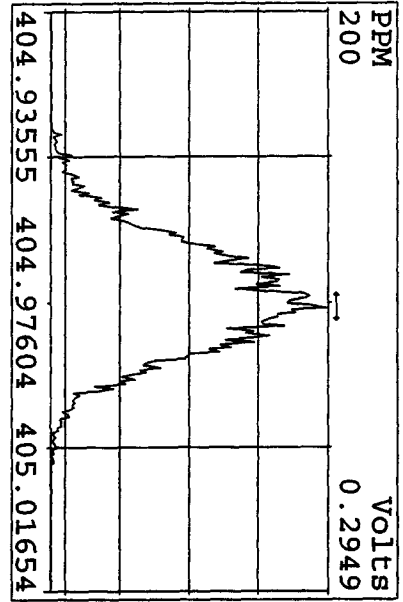
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 Experiment:DIOXINRES8290A Function:2 Reference:PFK



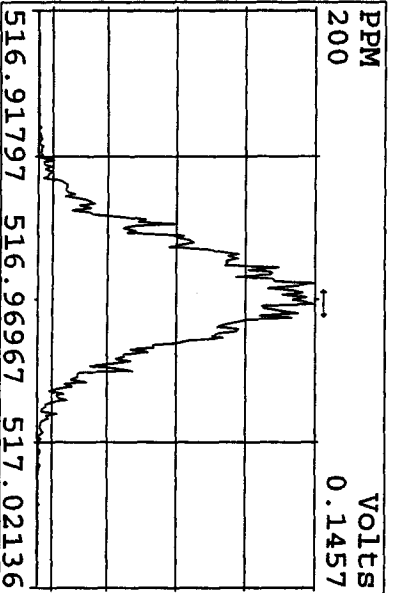
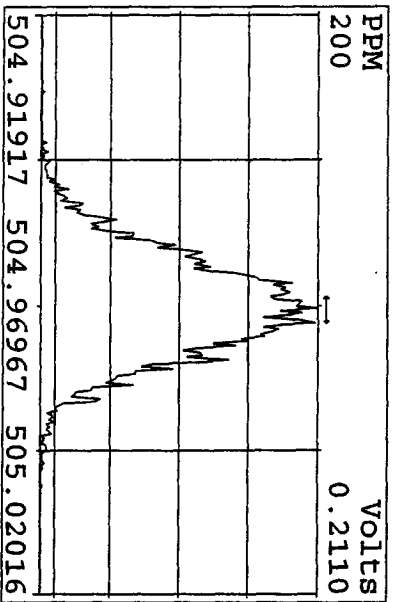
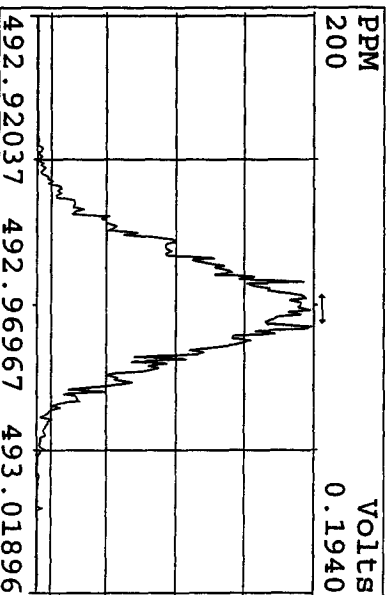
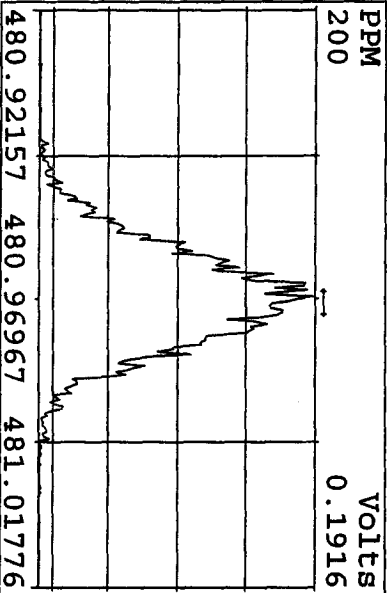
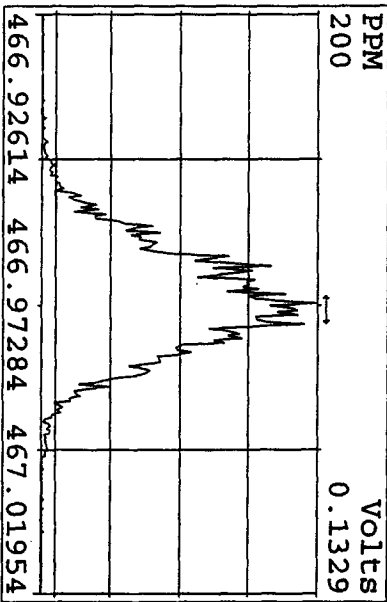
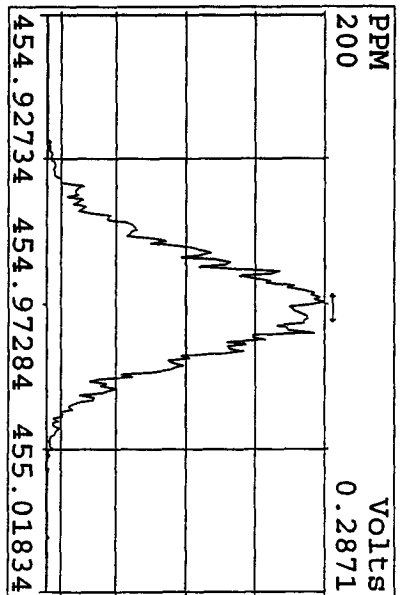
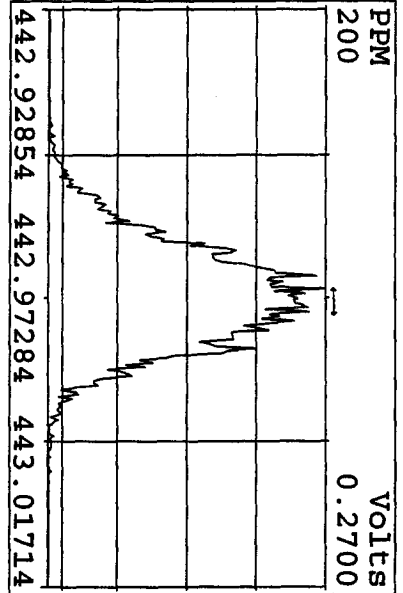
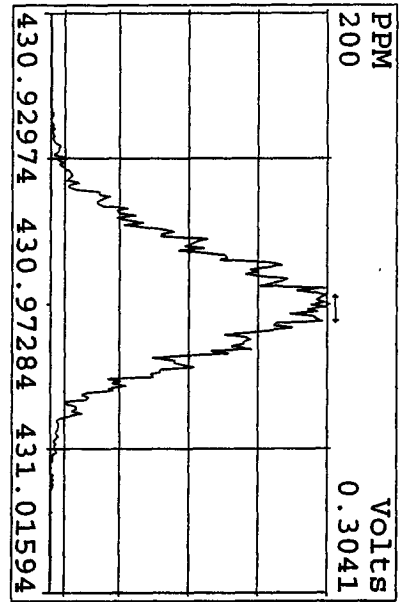
Peak Locate Examination: 2-MAY-2010:08:03 File: 01MY104D5ENDRES
 Experiment: DIOXINRES8290A Function: 3 Reference: PRK



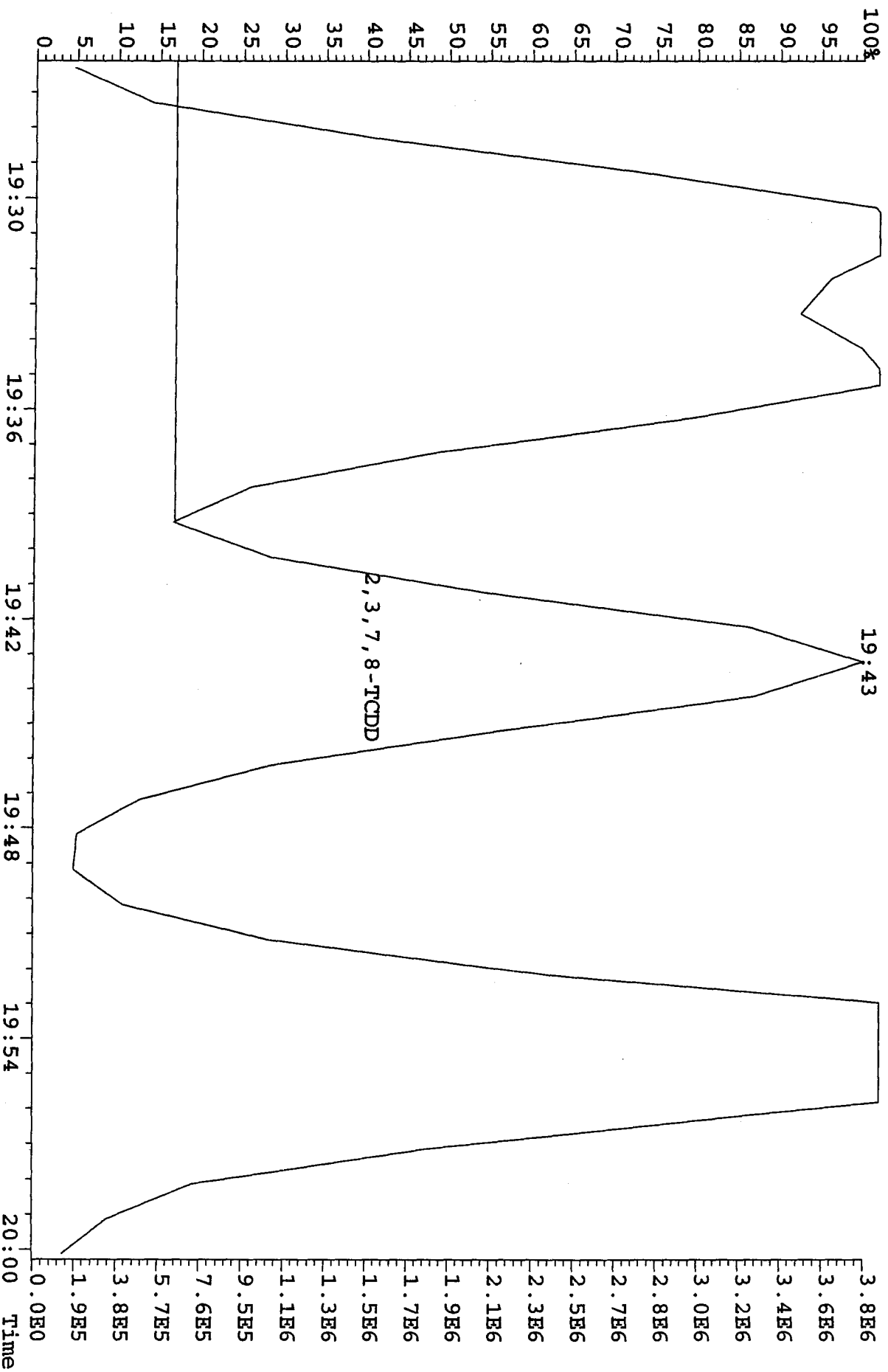
Peak Locate Examination: 2-MAY-2010:08:04 File:01MY104D5ENDRES
 Experiment:DIOXINRES8290A Function:4 Reference:PFK



Peak Locate Examination: 2-MAY-2010:08:05 File:01MY104D5ENDRES
 Experiment: DIOXINRES8290A Function:5 Reference: PFK



File: 01MY104D5 #1-433 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE
321.8936 S:2 Exp:DIOXINRES8290A



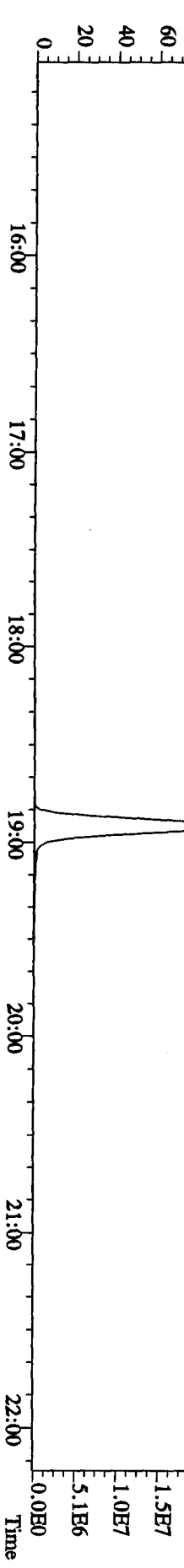
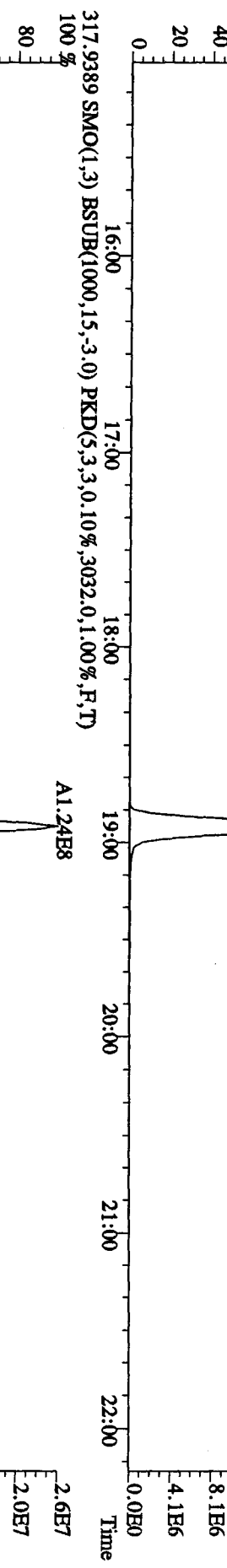
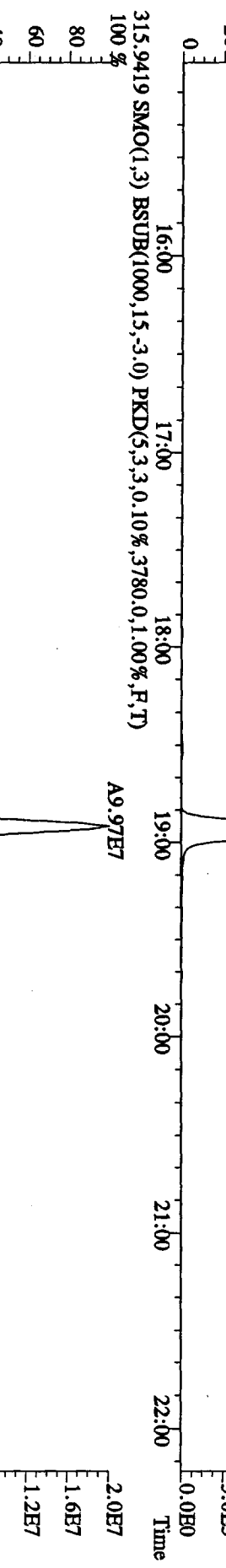
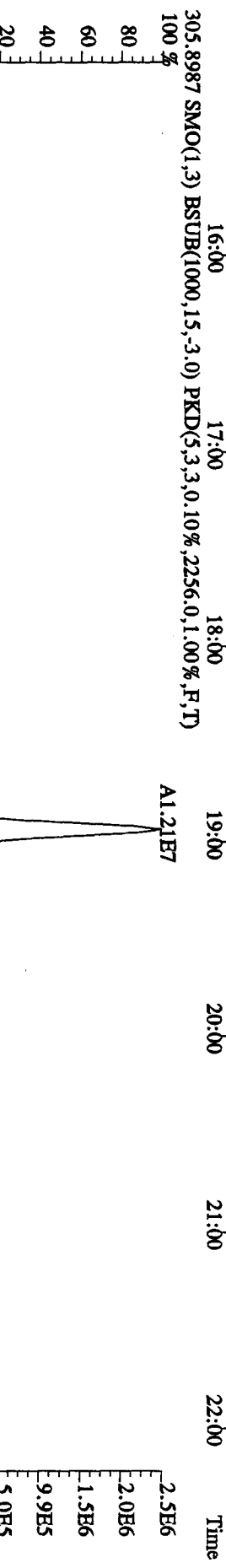
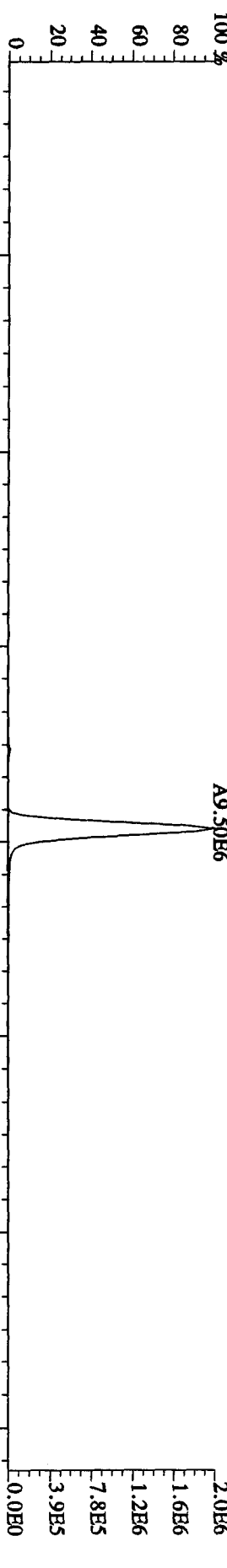
ST0412B : CS-1 09DXN422 ST0412A : CS-2 09DXN423 ST0412 : CS-3 10DXN111
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12AP104D5 12AP104D5 12AP104D5 12AP104D5 12AP104D5 12AP104D5

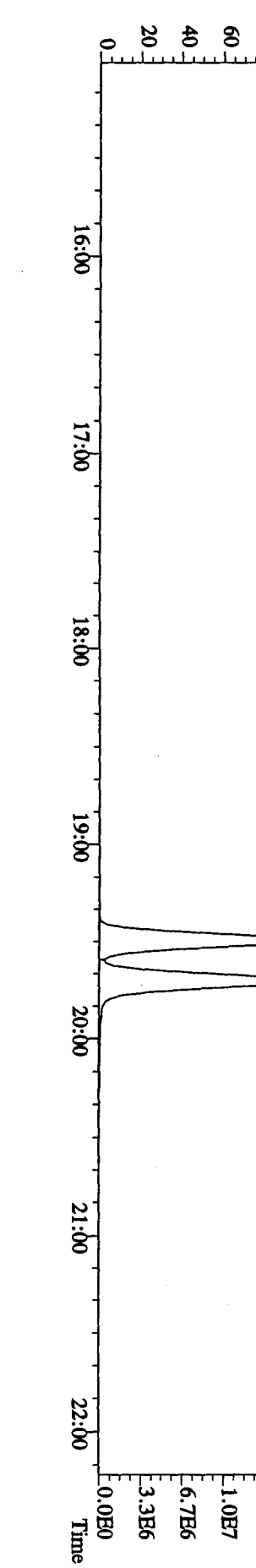
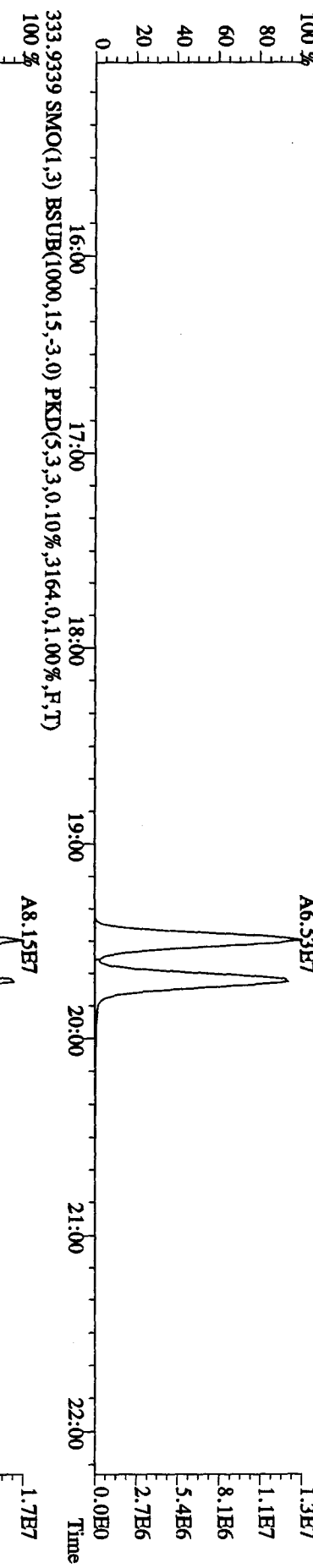
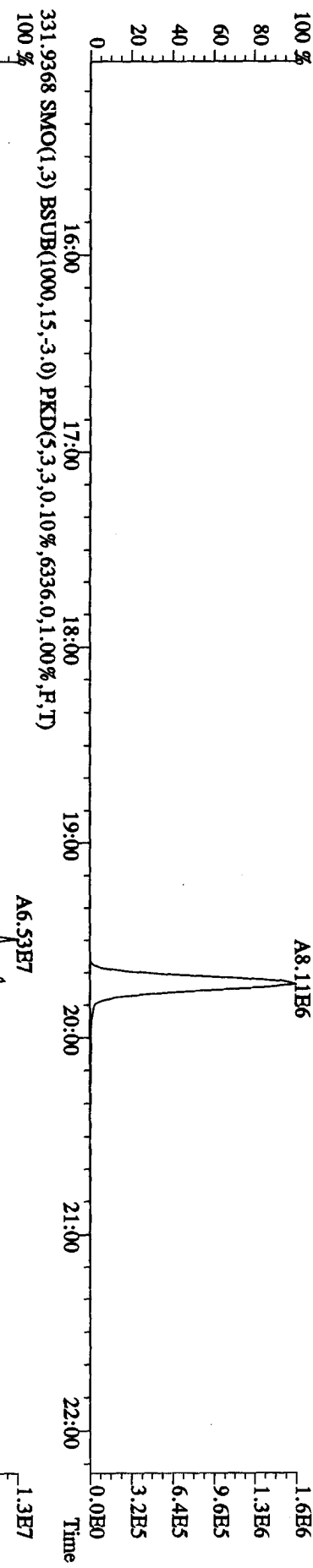
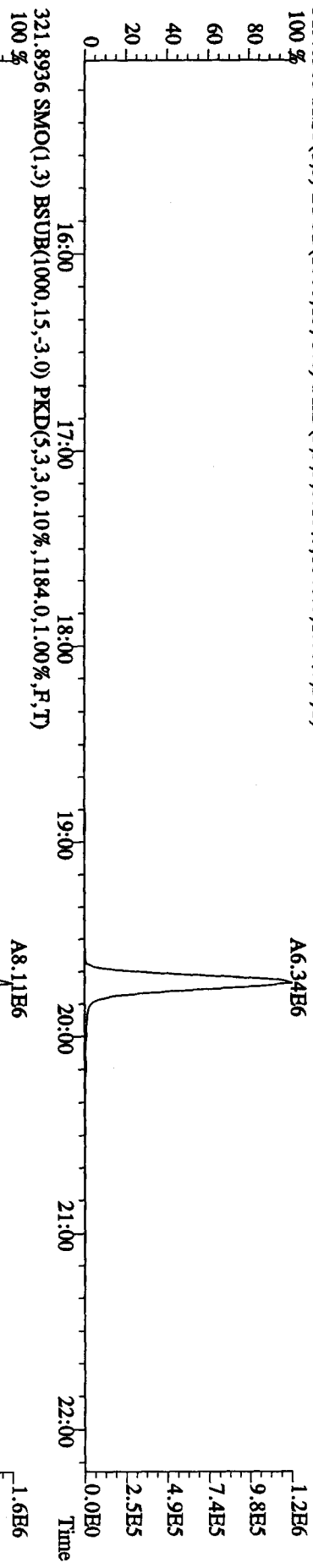
Name	Mean	S. D.	%RSD	RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	- %	-	-	-	-	-
13C-2,3,7,8-TCDF	1.521	0.098	6.47 %	1.54	1.47	1.60	1.38	1.62
2,3,7,8-TCDF	0.945	0.042	4.44 %	0.88	0.94	0.98	0.95	0.98
Total TCDF	0.945	0.042	4.44 %	0.88	0.94	0.98	0.95	0.98
13C-2,3,7,8-TCDD	0.950	0.080	8.47 %	0.94	0.87	0.95	0.91	1.08
2,3,7,8-TCDD	1.021	0.031	3.03 %	1.00	0.98	1.04	1.04	1.05
Total TCDD	1.021	0.031	3.03 %	1.00	0.98	1.04	1.04	1.05
37Cl-2,3,7,8-TCDD	2.261	0.218	9.64 %	2.41	2.04	2.16	2.14	2.56
13C-1,2,3,7,8-PeCDF	1.050	0.149	14.1 %	0.97	0.97	1.01	0.98	1.31
1,2,3,7,8-PeCDF	1.045	0.049	4.68 %	0.97	1.02	1.09	1.09	1.06
2,3,4,7,8-PeCDF	0.982	0.045	4.55 %	0.93	0.97	1.03	1.02	0.96
Total F2 PeCDF	1.013	0.046	4.50 %	0.95	0.99	1.06	1.05	1.01
Total F1 PeCDF	1.013	0.046	4.50 %	0.95	0.99	1.06	1.05	1.01
13C-1,2,3,7,8-PeCDD	0.670	0.094	14.0 %	0.61	0.65	0.62	0.64	0.84
1,2,3,7,8-PeCDD	0.982	0.047	4.75 %	0.94	0.93	1.04	1.01	0.99
Total PeCDD	0.982	0.047	4.75 %	0.94	0.93	1.04	1.01	0.99
13C-1,2,3,7,8,9-HxCDD	-	-	- %	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.025	0.075	7.29 %	1.08	0.98	1.08	0.92	1.06
1,2,3,4,7,8-HxCDF	1.213	0.061	5.00 %	1.12	1.18	1.25	1.28	1.23
1,2,3,6,7,8-HxCDF	1.343	0.096	7.13 %	1.20	1.34	1.46	1.38	1.33
2,3,4,6,7,8-HxCDF	1.222	0.064	5.27 %	1.13	1.19	1.29	1.26	1.23
1,2,3,7,8,9-HxCDF	1.092	0.072	6.60 %	1.02	1.02	1.15	1.17	1.10
Total HxCDF	1.218	0.070	5.72 %	1.12	1.18	1.29	1.27	1.22
13C-1,2,3,6,7,8-HxCDD	0.807	0.060	7.46 %	0.81	0.77	0.86	0.72	0.87
1,2,3,4,7,8-HxCDD	1.007	0.056	5.54 %	0.93	1.02	1.04	1.07	0.98

1,2,3,6,7,8-HxCDD	1.114	0.059	5.33 %	1.06	1.06	1.19	1.16	1.11
1,2,3,7,8-HxCDD	1.209	0.083	6.88 %	1.12	1.17	1.22	1.34	1.19
Total HxCDD	1.110	0.061	5.46 %	1.04	1.08	1.15	1.19	1.09
13C-1,2,3,4,6,7,8-HpCDF	0.863	0.061	7.10 %	0.87	0.82	0.95	0.79	0.88
1,2,3,4,6,7,8-HpCDF	1.310	0.072	5.52 %	1.20	1.28	1.39	1.36	1.32
1,2,3,4,7,8,9-HpCDF	1.026	0.053	5.19 %	0.95	1.00	1.09	1.06	1.03
Total HpCDF	1.168	0.063	5.36 %	1.08	1.14	1.24	1.21	1.18
13C-1,2,3,4,6,7,8-HpCDD	0.697	0.052	7.39 %	0.71	0.67	0.77	0.64	0.71
1,2,3,4,6,7,8-HpCDD	1.072	0.039	3.60 %	1.03	1.03	1.11	1.11	1.08
Total HpCDD	1.072	0.039	3.60 %	1.03	1.03	1.11	1.11	1.08
13C-OCDD	0.531	0.041	7.69 %	0.53	0.49	0.58	0.49	0.57
OCDF	1.445	0.085	5.85 %	1.32	1.39	1.51	1.50	1.50
OCDD	1.166	0.060	5.16 %	1.08	1.14	1.23	1.21	1.17

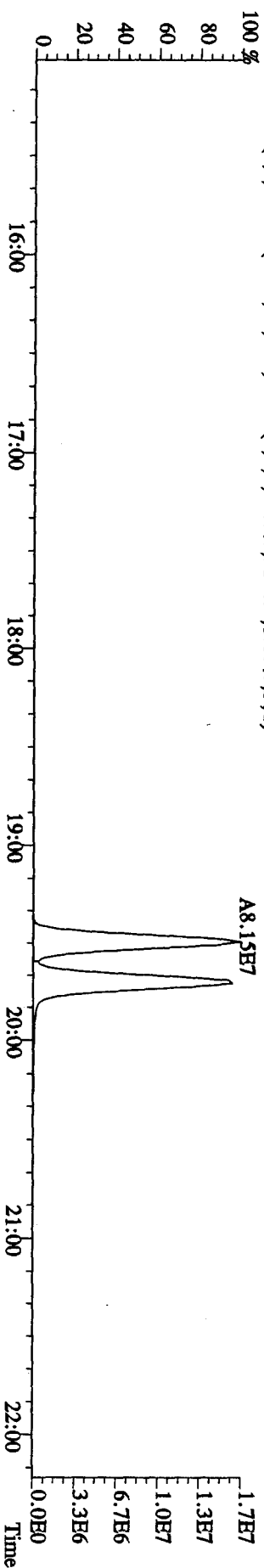
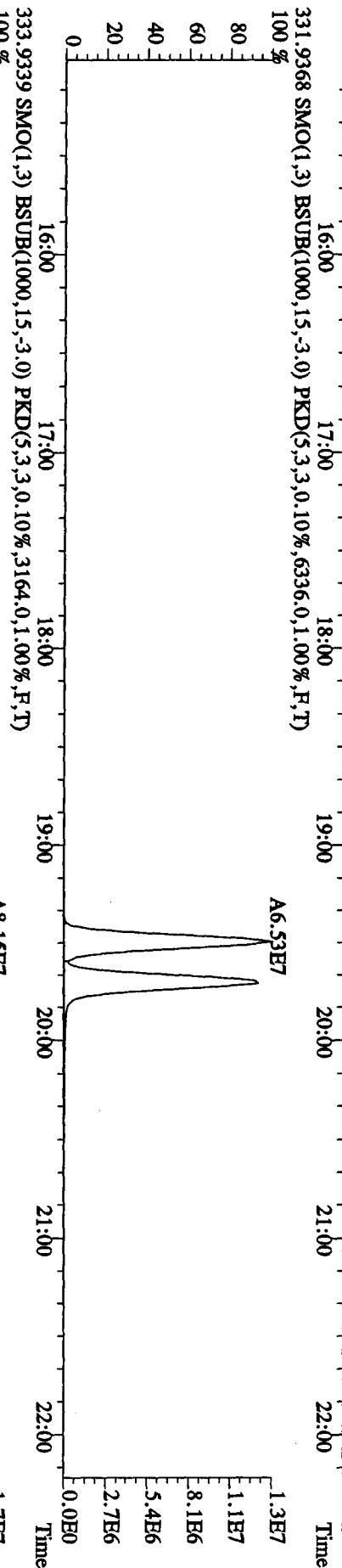
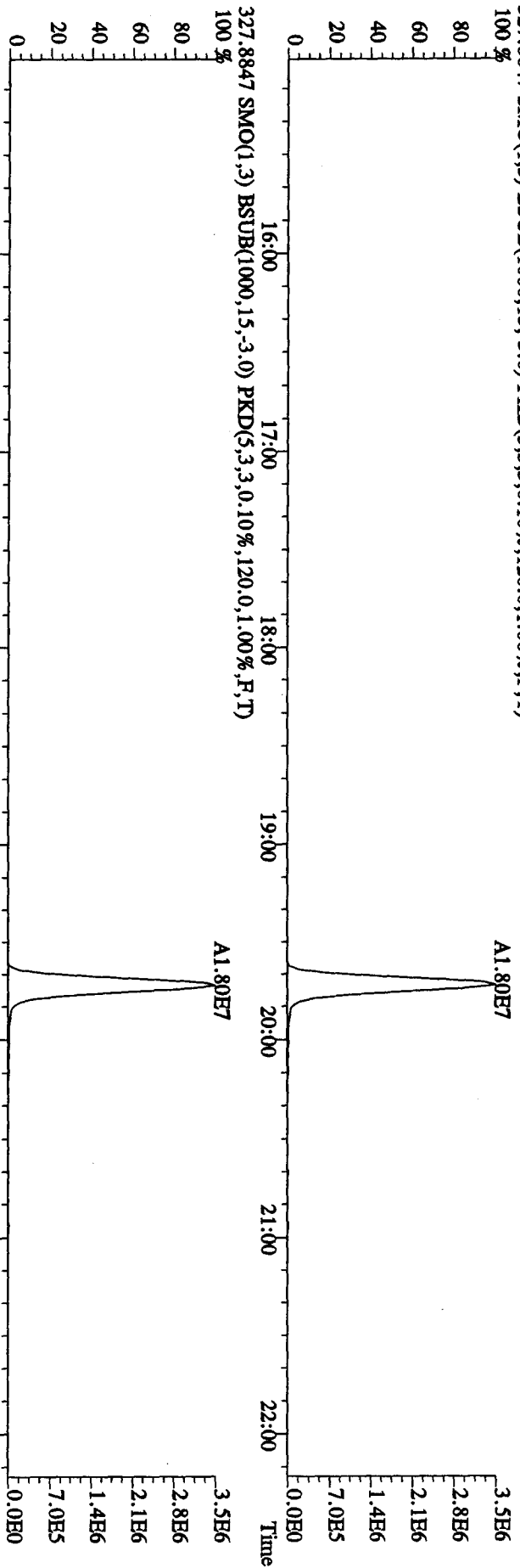
File:01MAY104D5 #1-435 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
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 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,584,0,1,00%,F,T)



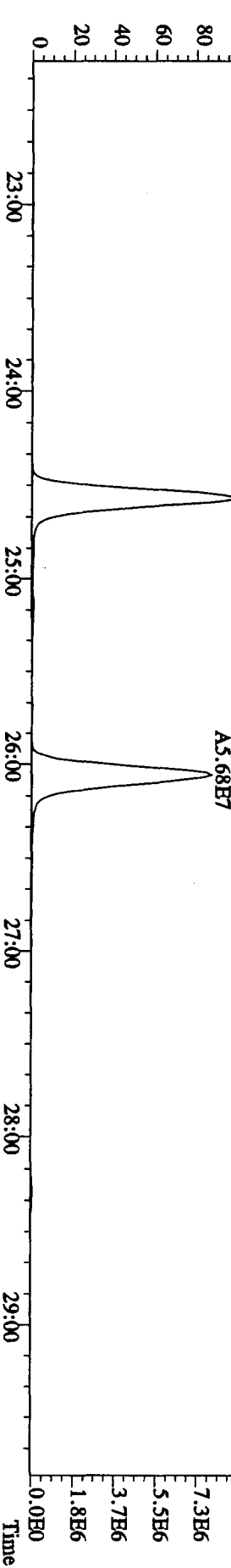
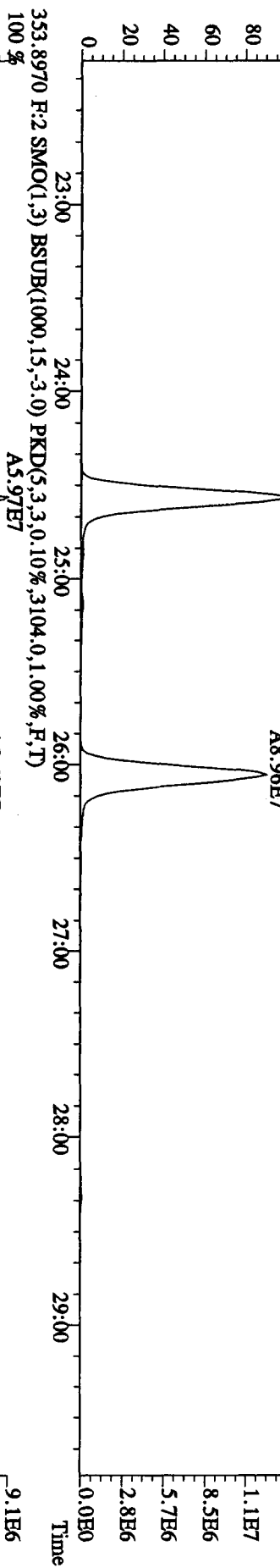
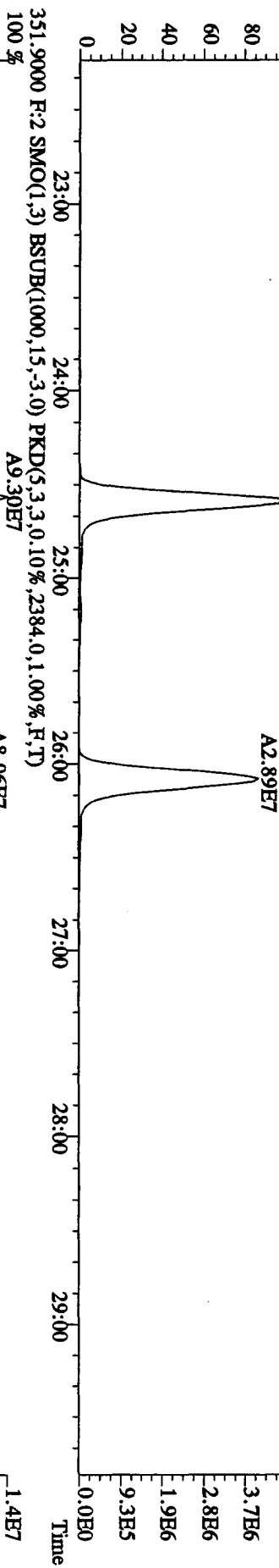
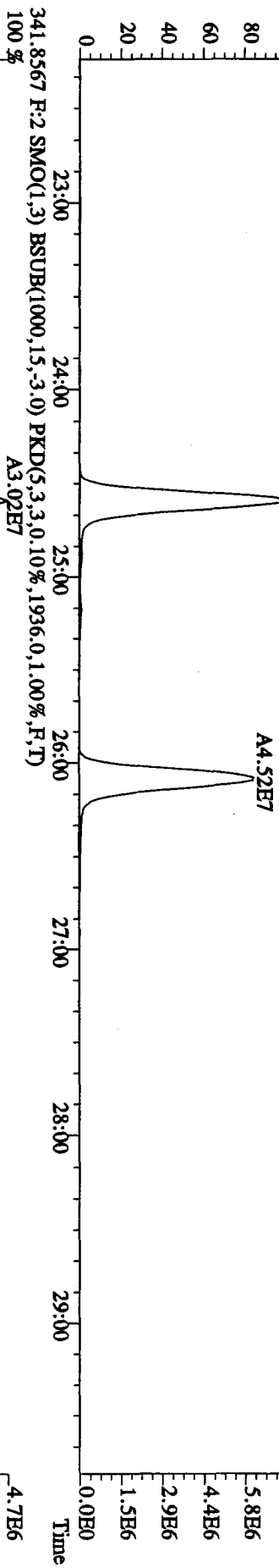
File:01MAY104D5 #1-435 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1040.0,1.00%,F,T)
 100%



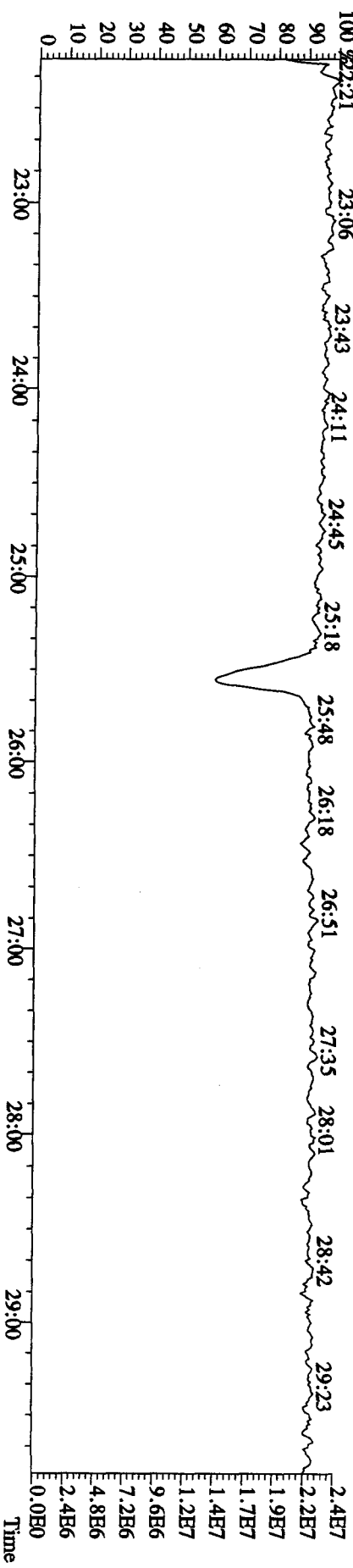
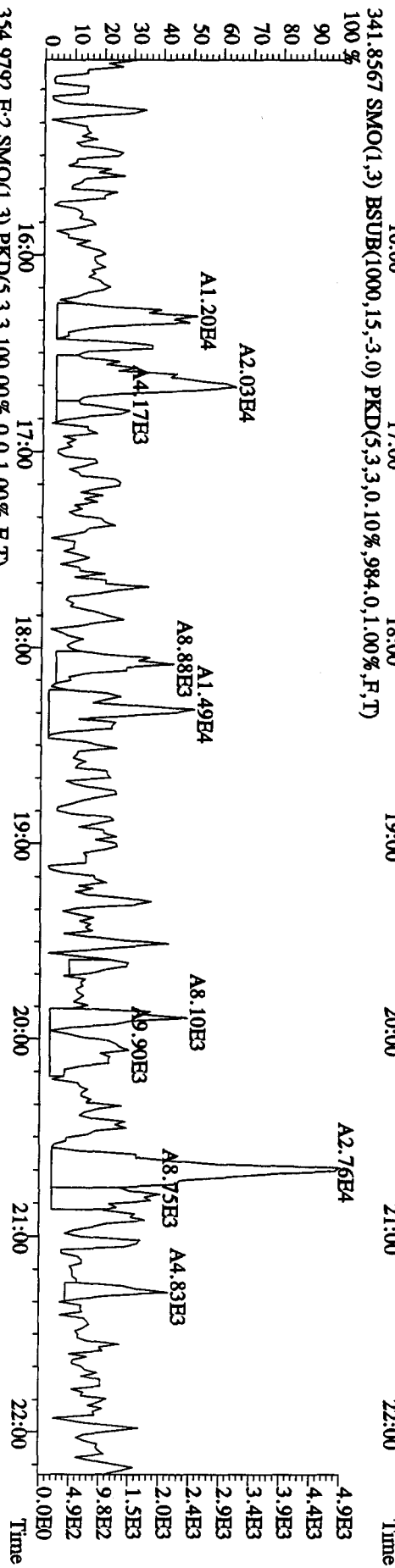
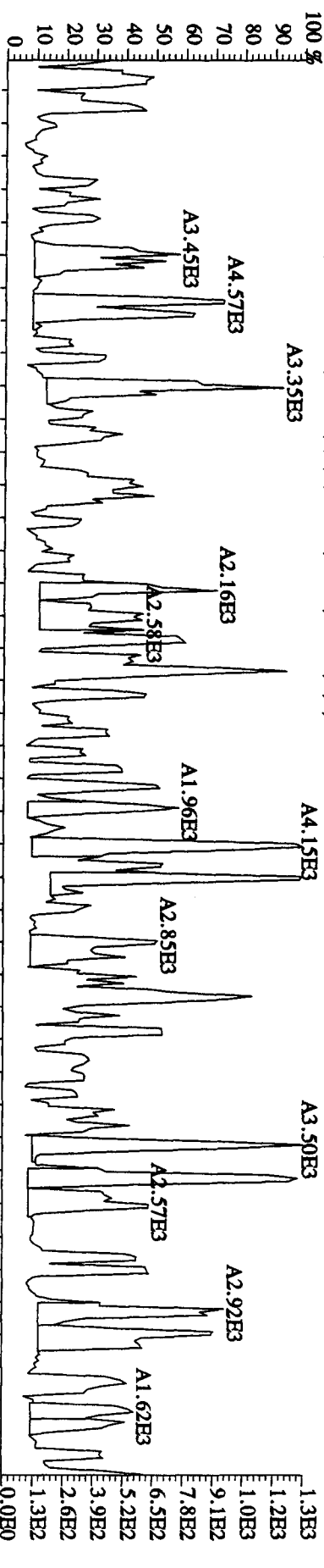
File:01MYY104D5 #1-435 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,120,0,1,1.00%,F,T)
 100%



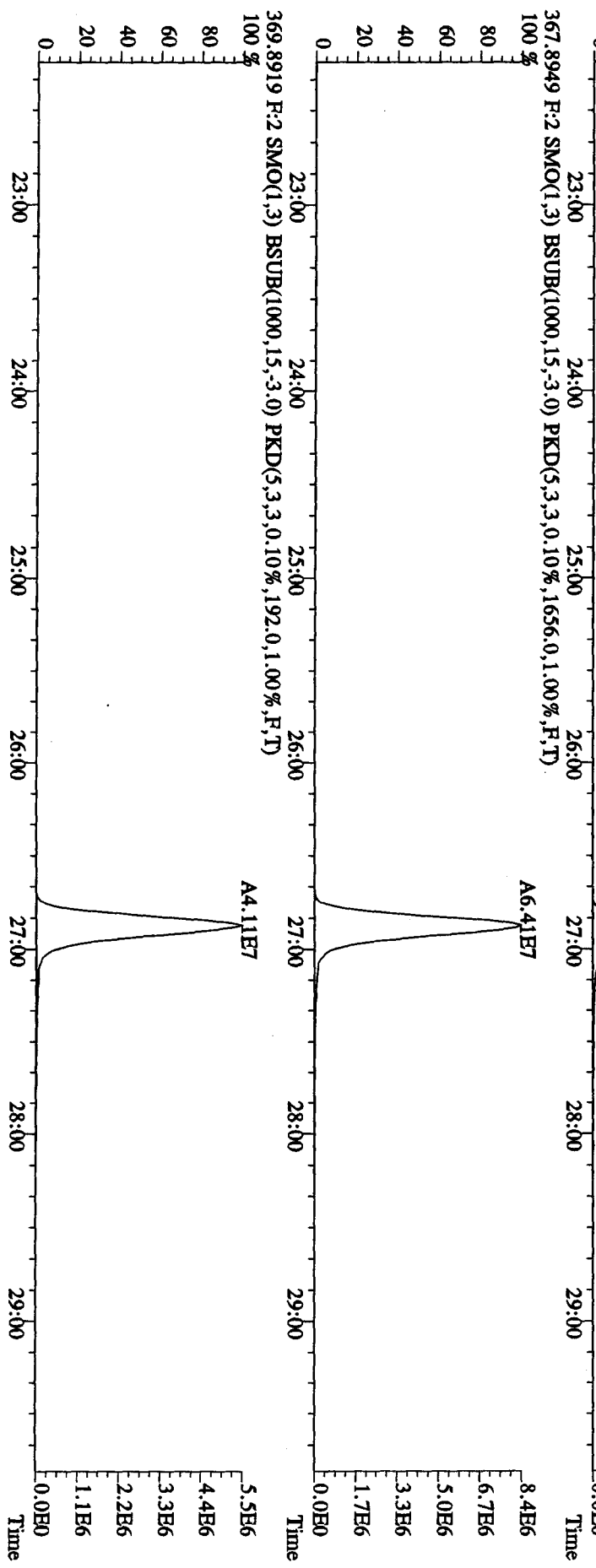
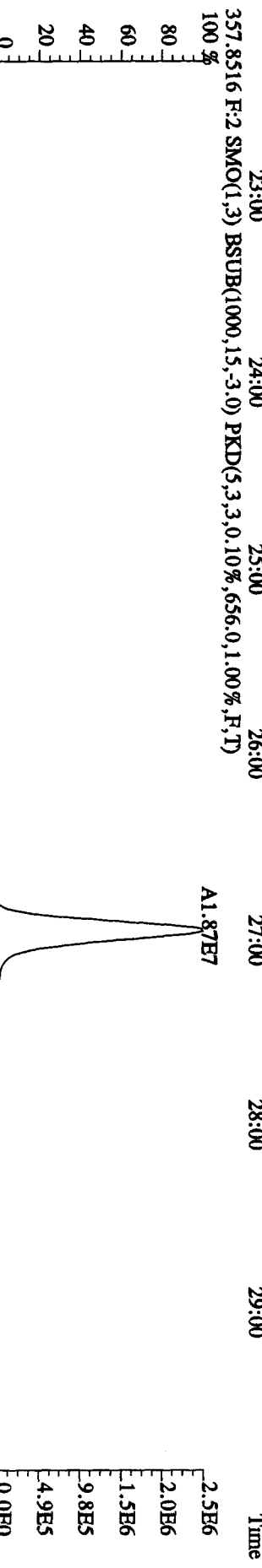
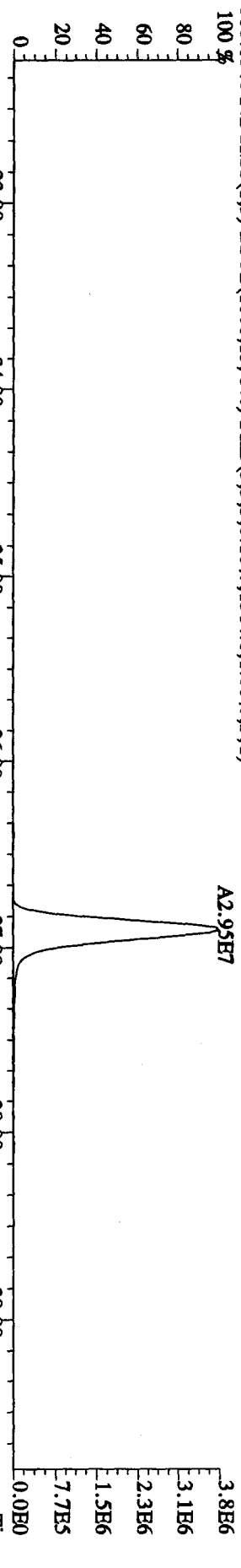
File:01MT104D5 #1-604 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2020.0,1.00%,F,T) A4.79E7
 100 %



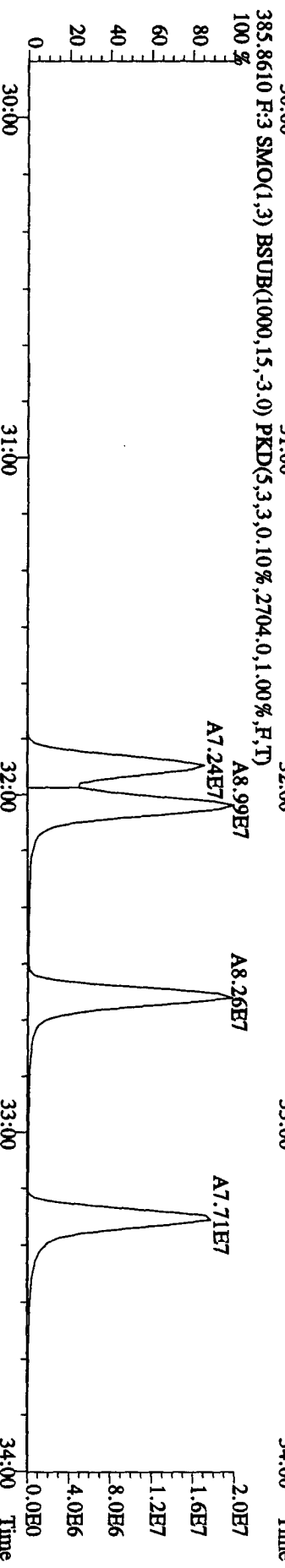
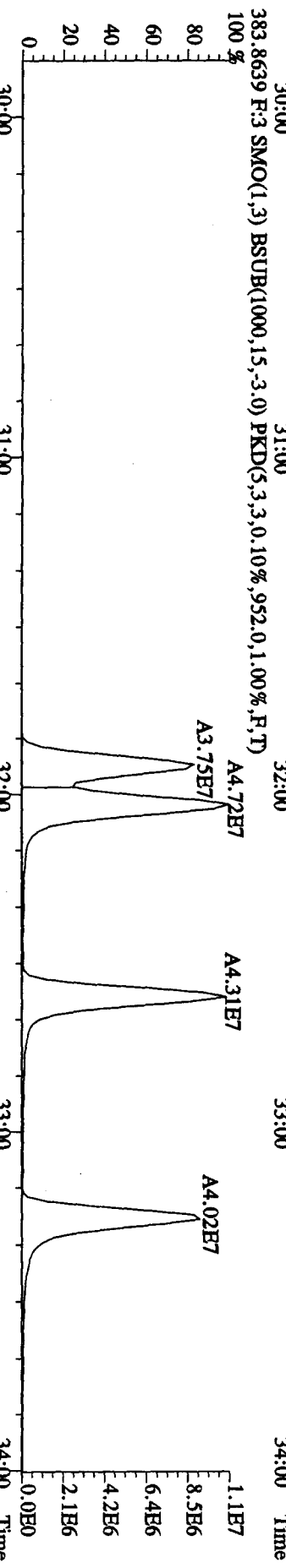
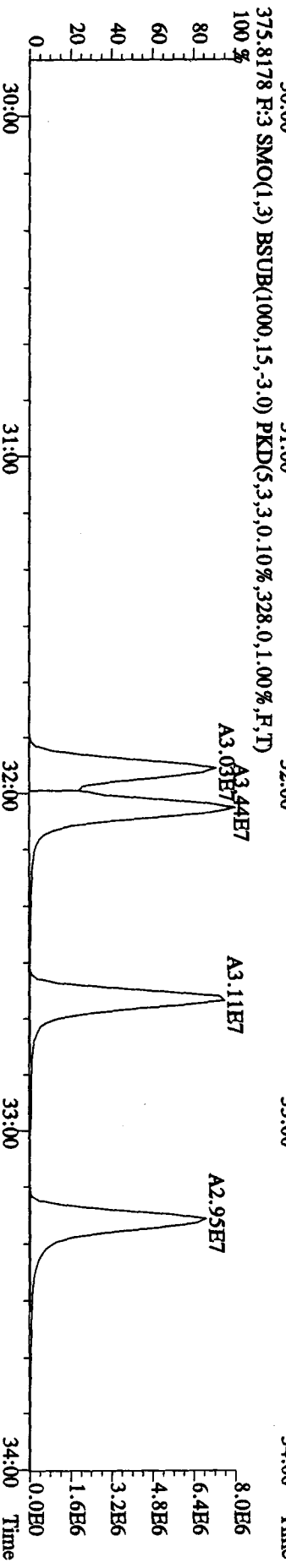
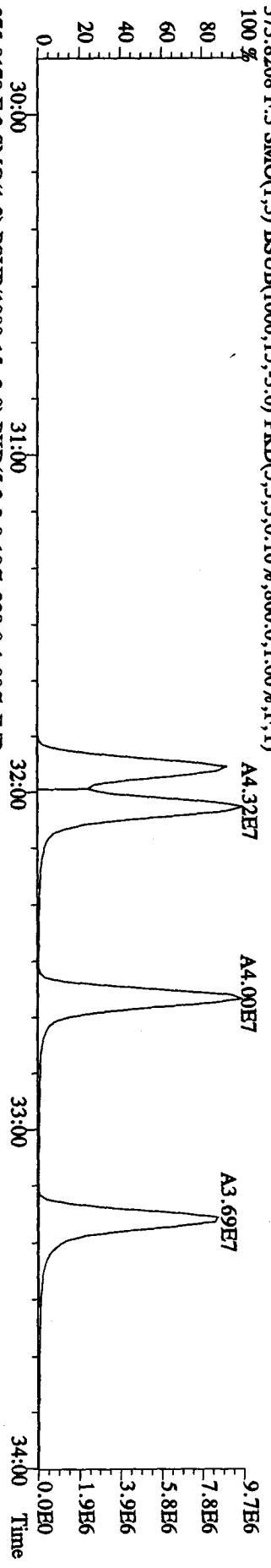
File:01MAY104D5 #1-435 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 339.8597 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,436,0,1.00%,F,T)



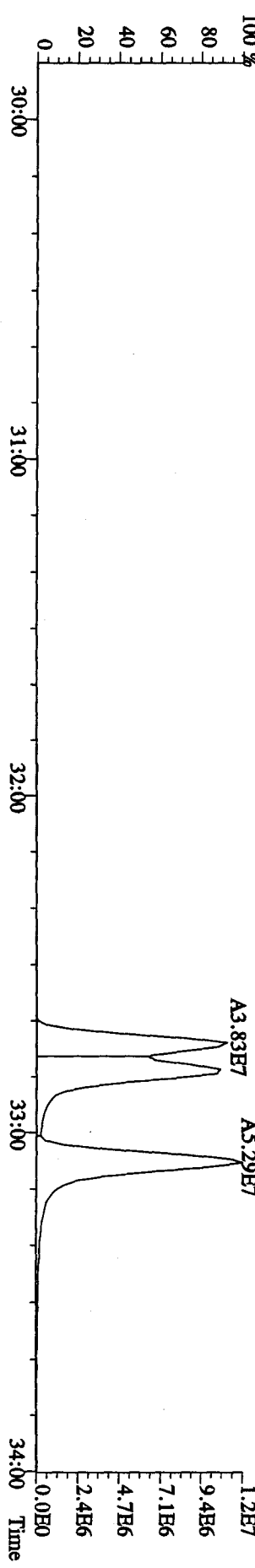
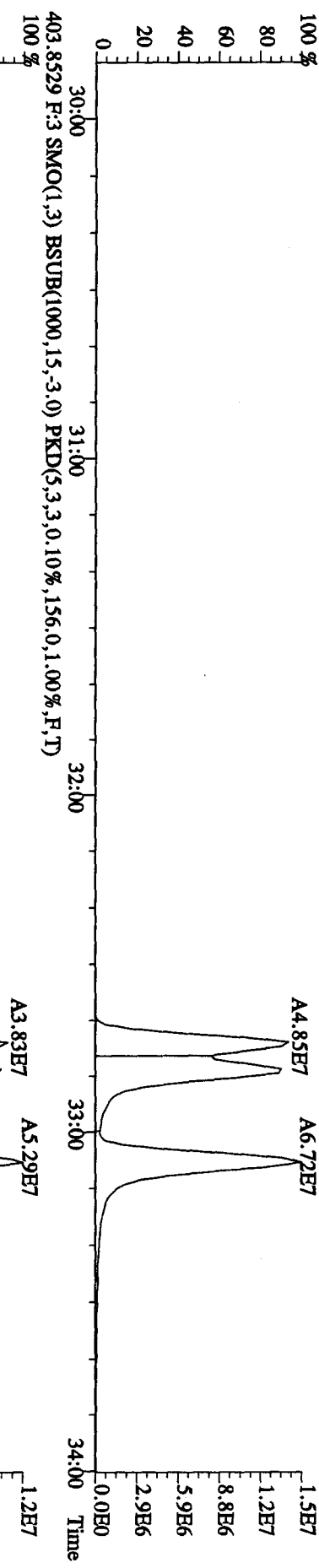
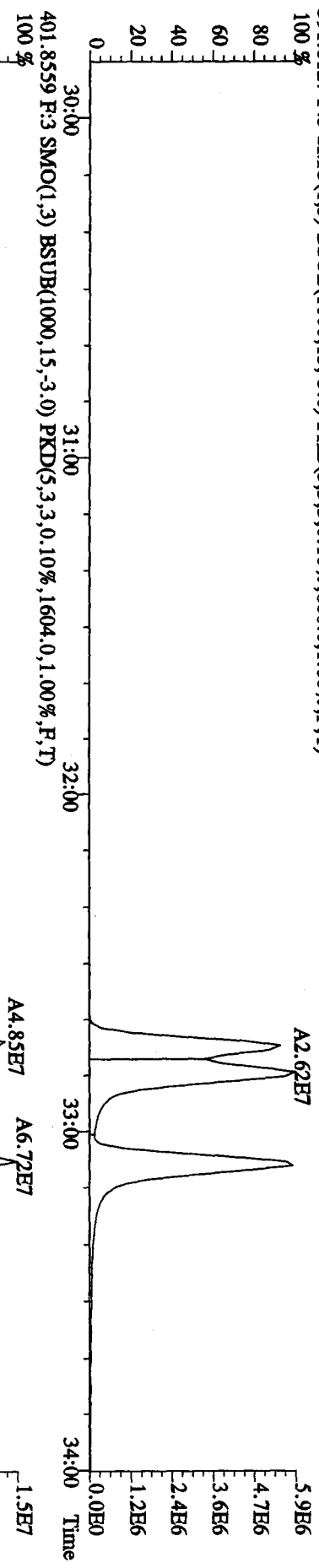
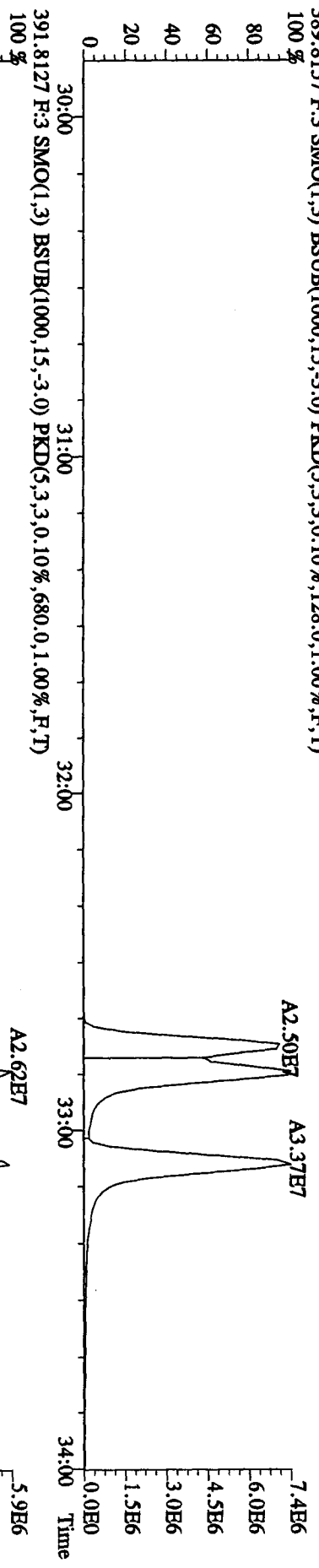
File:01MAY104D5 #1-604 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 357.8516 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1564.0,1.00%,F,T)
 100%



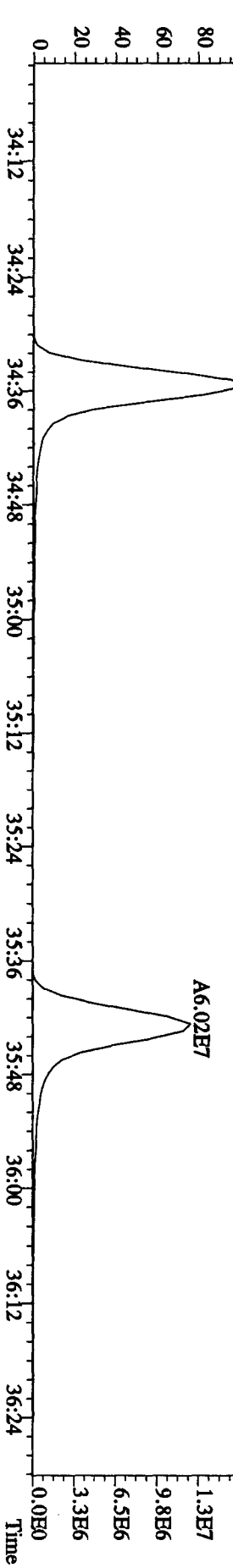
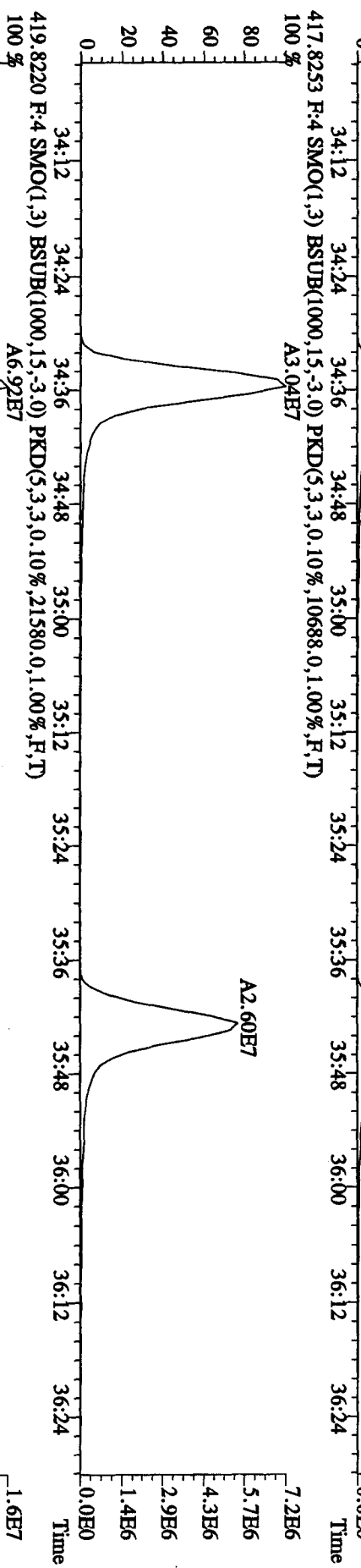
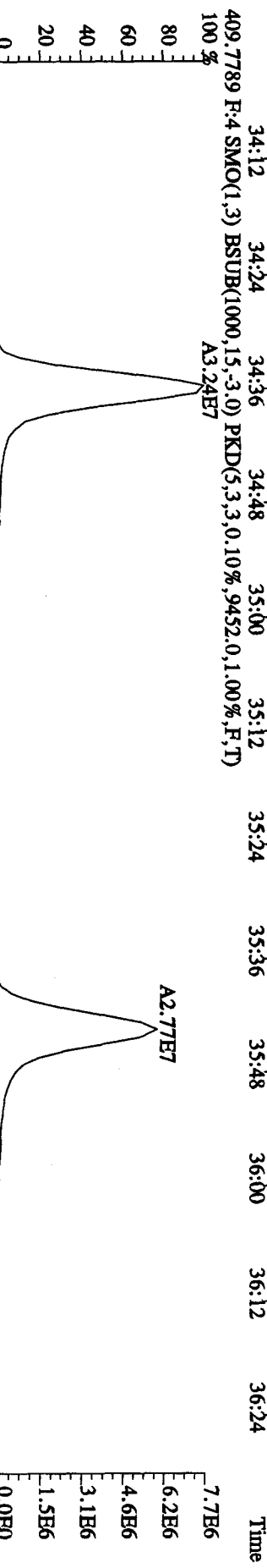
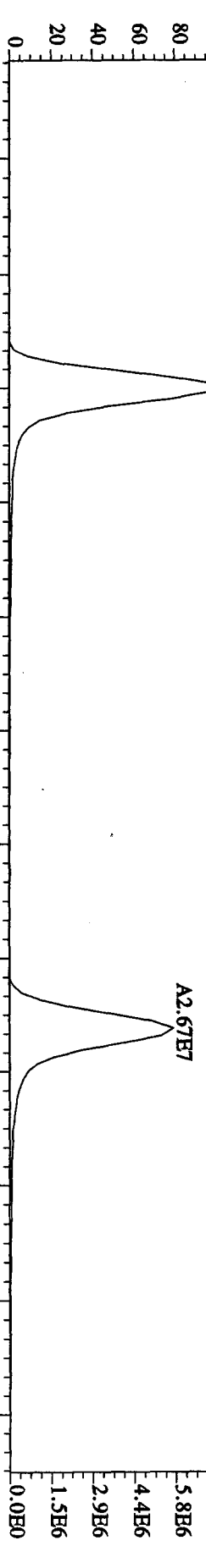
File:01MAY104D5 #1-316 Acq: 1-MAY-2010 08:48:19 GC: EI+ Voltage: SIR Autospec-Ultimate
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp: DIOXINRES8290A
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,860.0,1.00%,F,T)



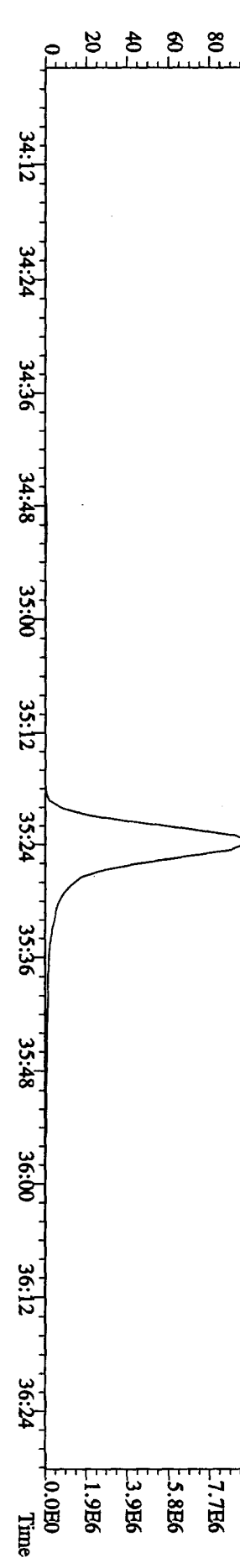
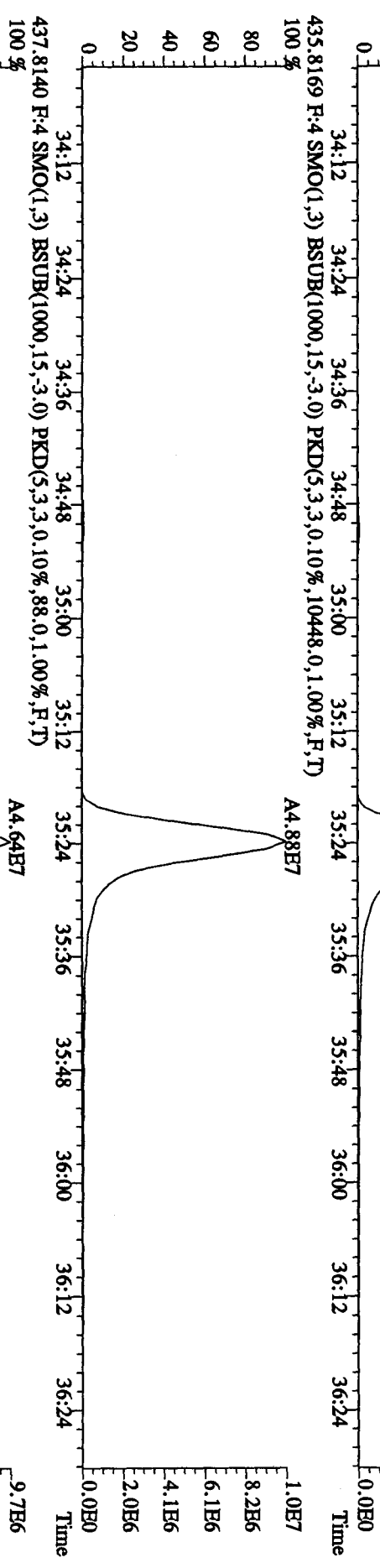
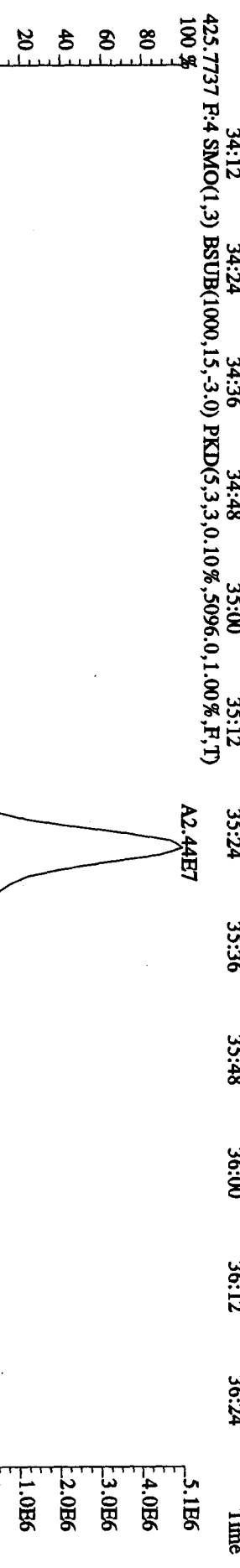
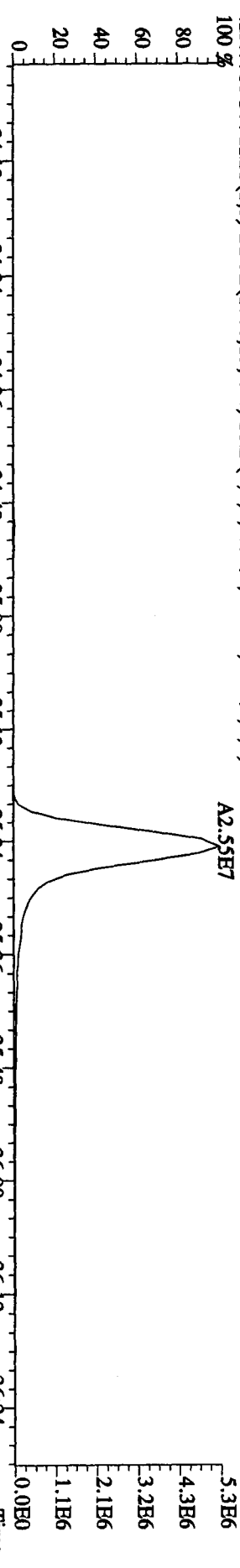
File:01MAY104D5 #1-316 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 389.8157 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,128,0,1,00%,F,T) 100%



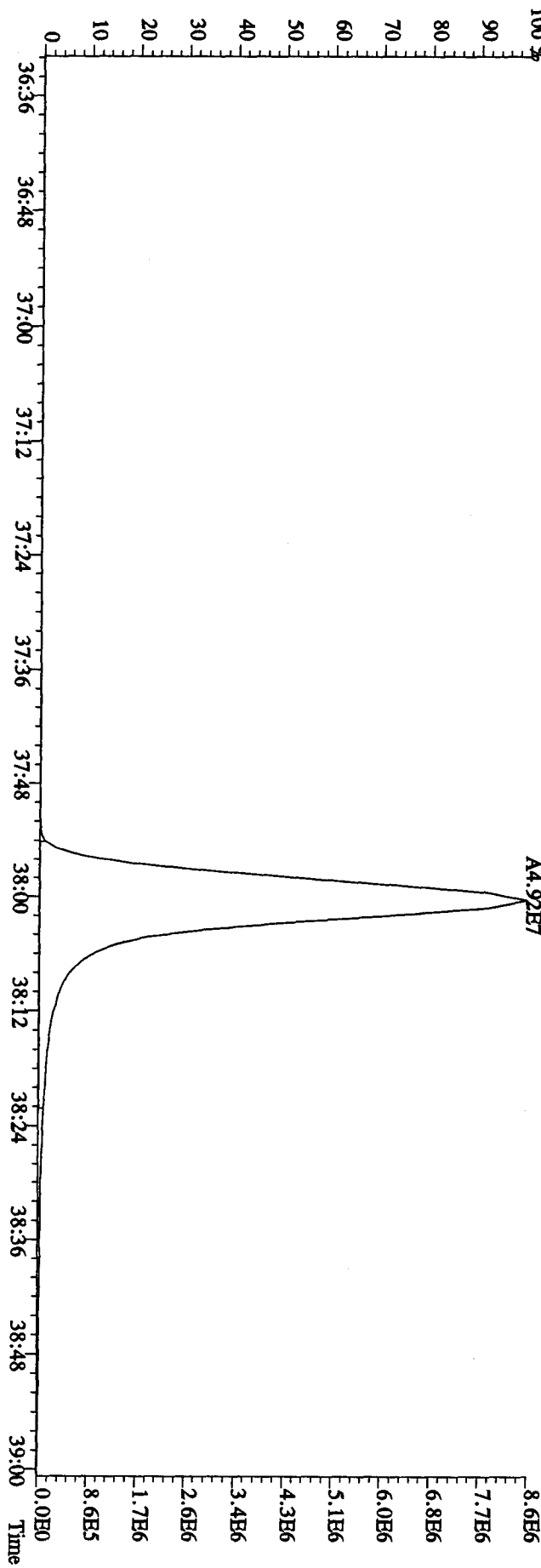
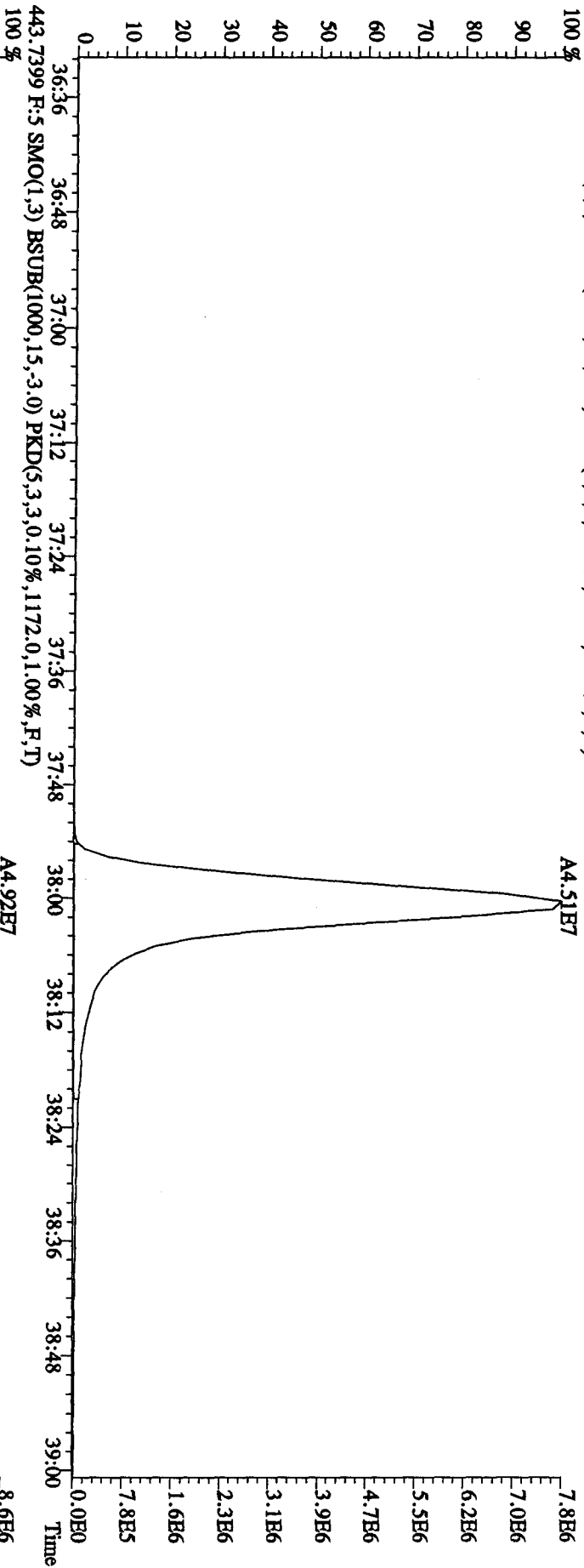
File:01MAY104D5 #1-198 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 407.7818 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9416.0,1.00%,F,T)
 100 % A3.09E7



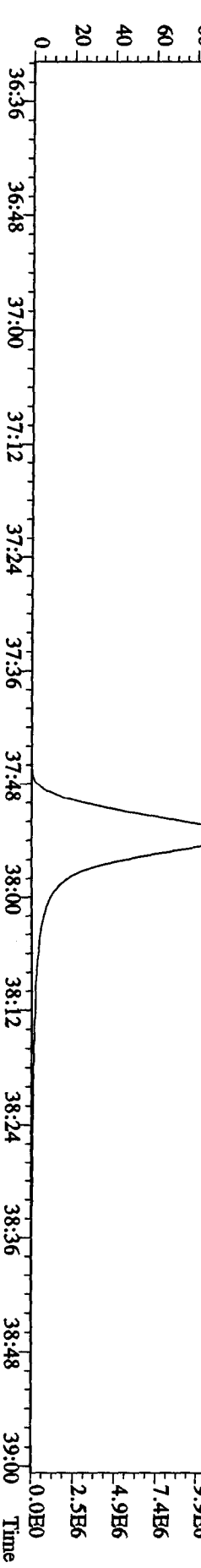
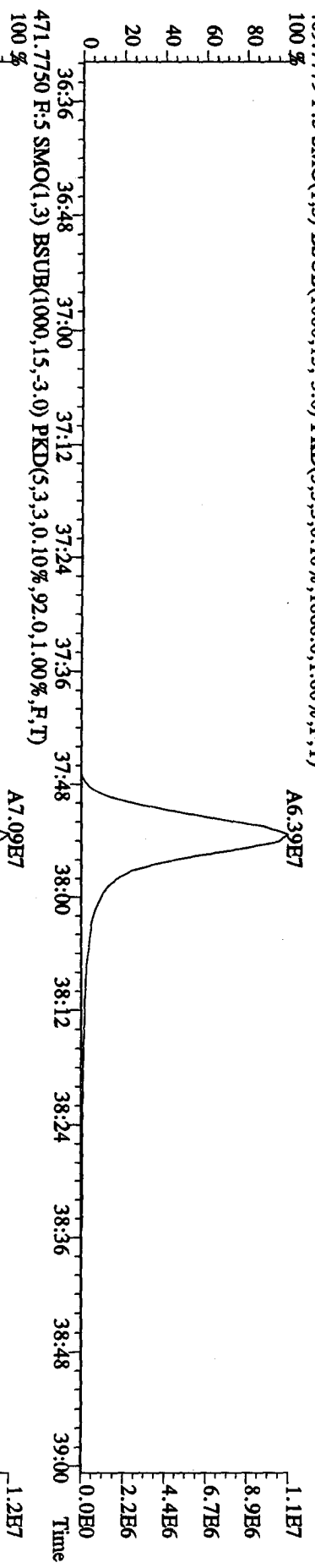
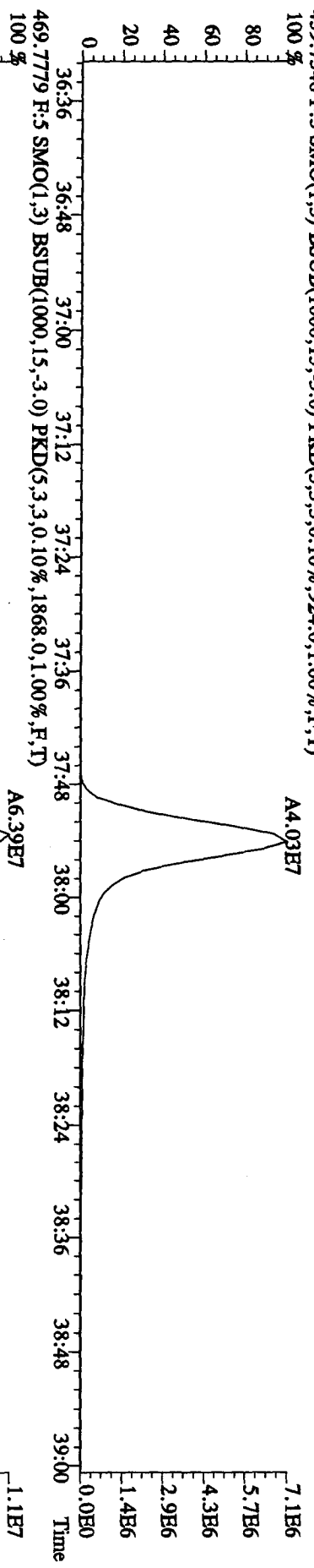
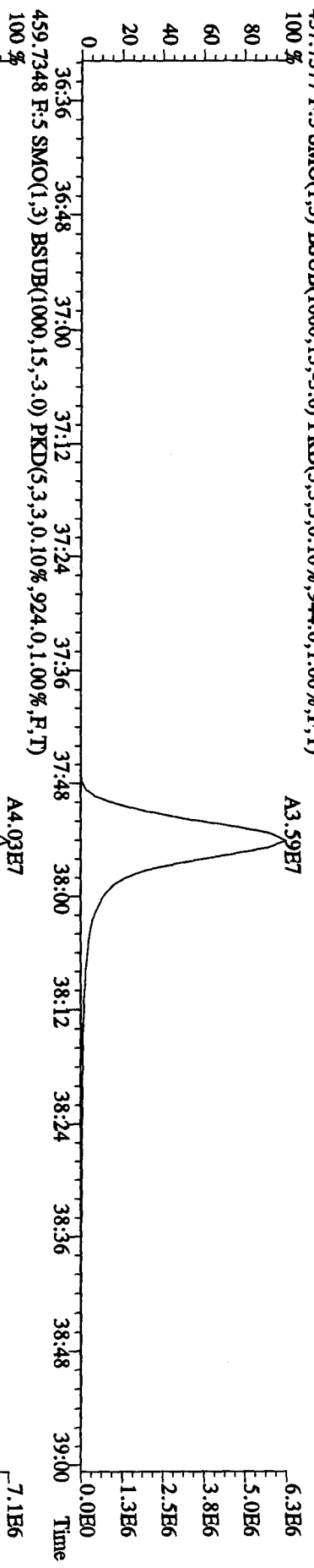
File:01MAY104D5 #1-198 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 423.7766 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4352.0,1.00%,F,T) 100%



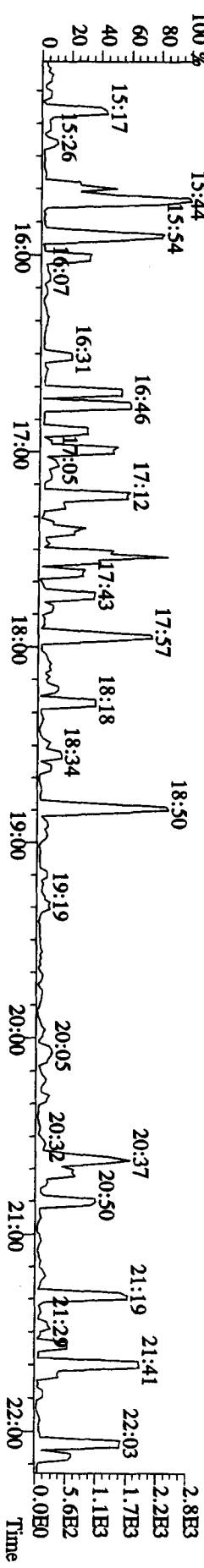
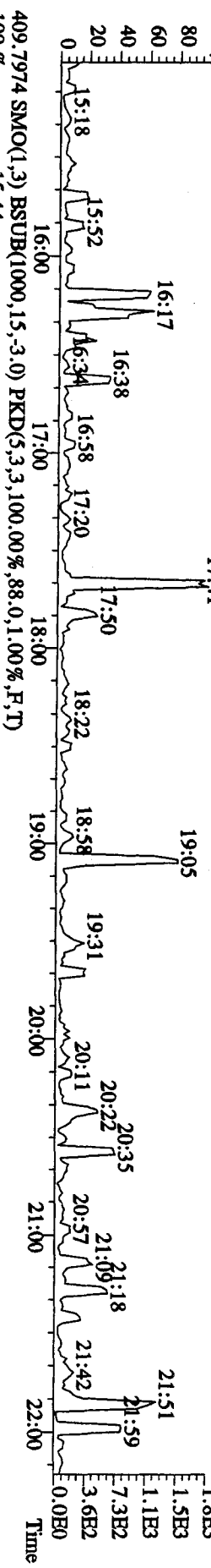
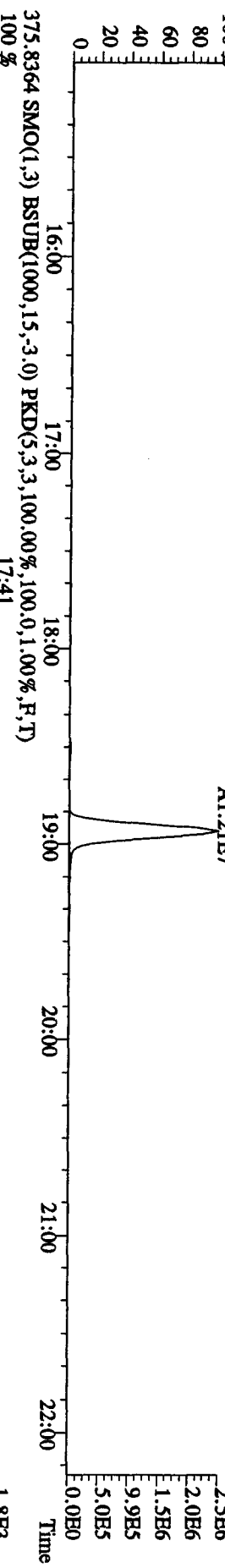
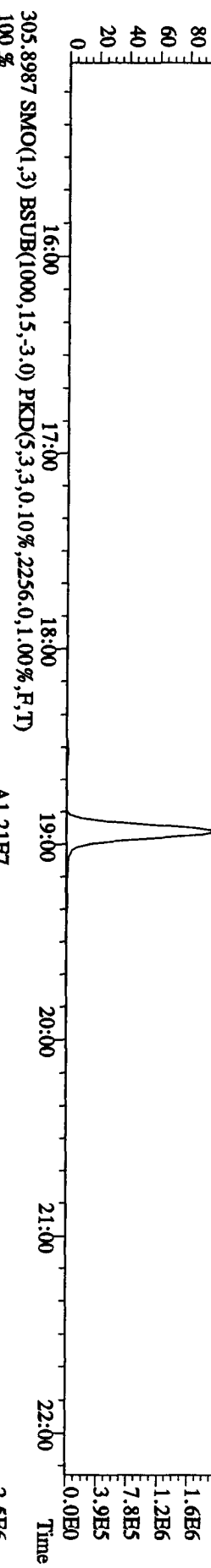
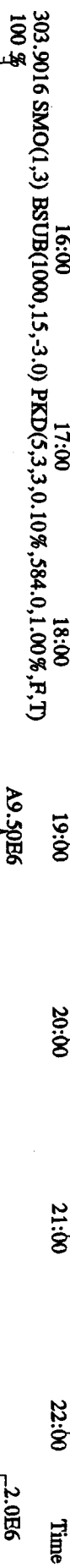
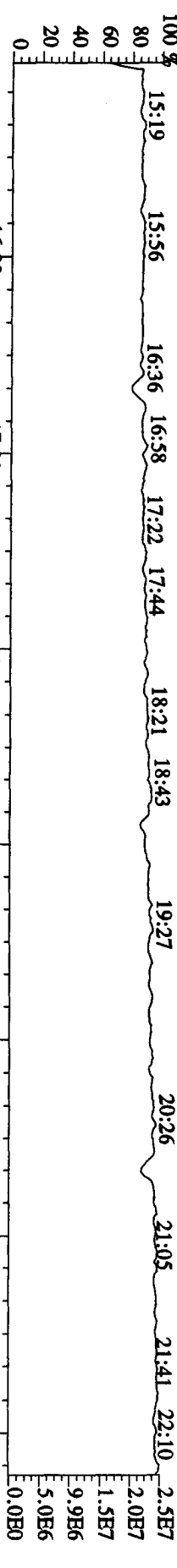
File:01MAY104D5 #1-191 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE
Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
441.7428 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,608.0,1.00%,F,T)



File:01MVT104D5 #1-191 Acq: 1-MAY-2010 08:48:19 GC: EI + Voltage: SIR Autospec-UltimaB
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 457.7377 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,944.0,1.00%,F,T)
 100 %



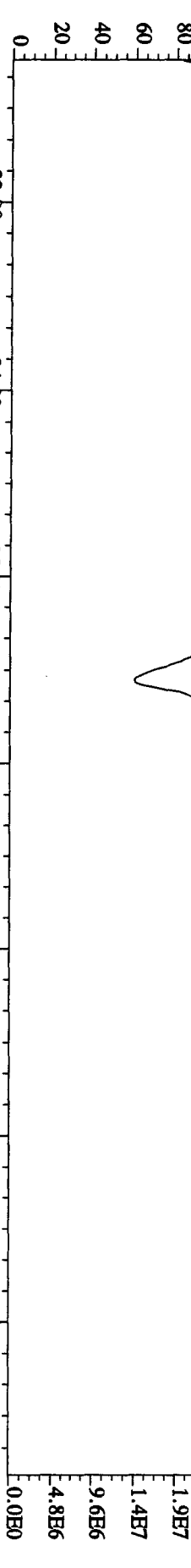
File:01MY104D5 #1-435 Acq: 1-MAY-2010 08:48:19 GC: EI+ Voltage: SIR Autospec-Ultimate
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 354.9792 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



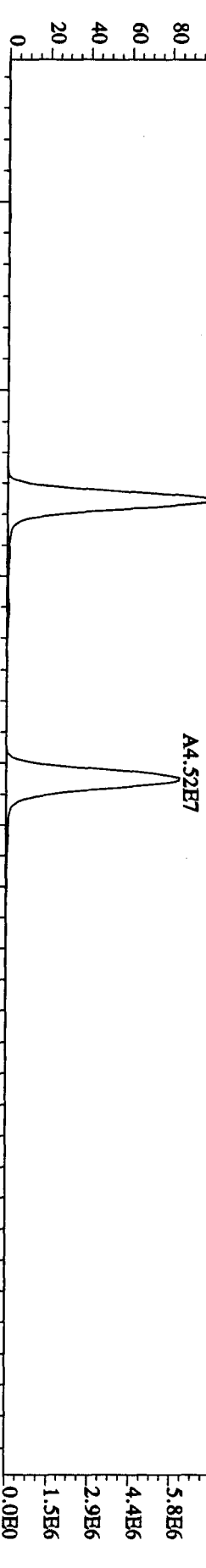
File:01MY104D5 #1-604 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaE

Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A

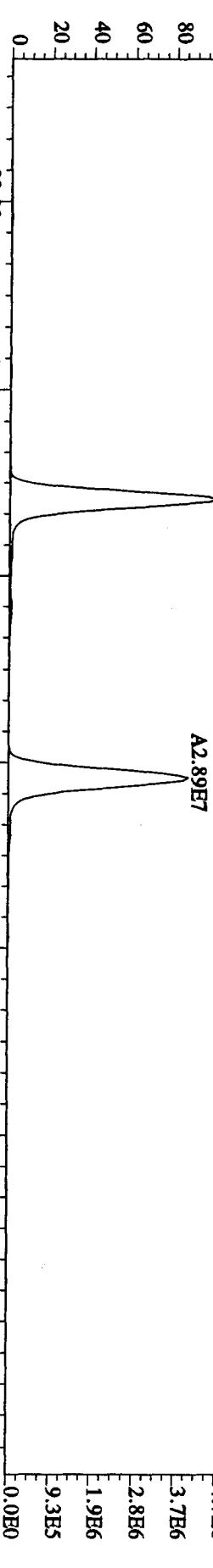
354.9792 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 100 22:21 23:06 23:43 24:11 24:45 25:18 25:48 26:18 26:51 27:35 28:06 28:42 29:23



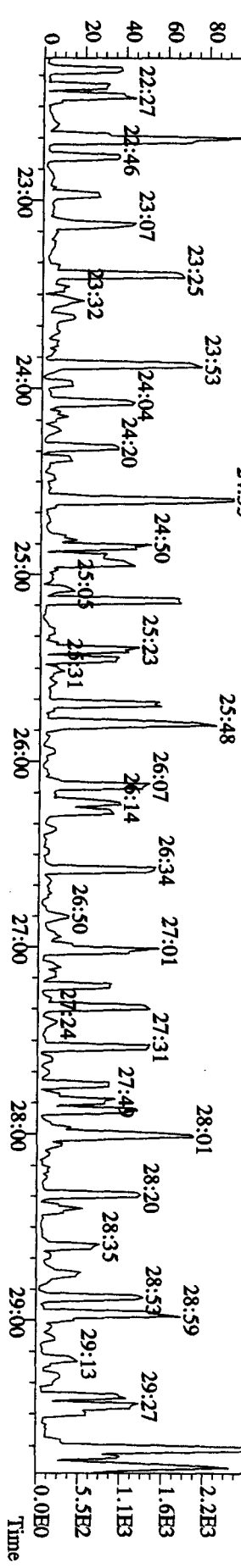
339.8597 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2020.0,1.00%,F,T) 100 23:00 24:00 25:00 26:00 27:00 28:00 29:00



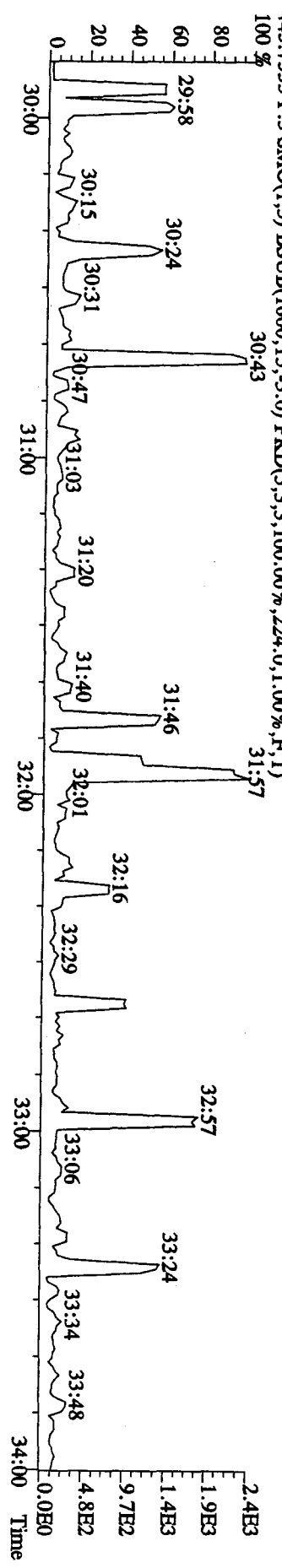
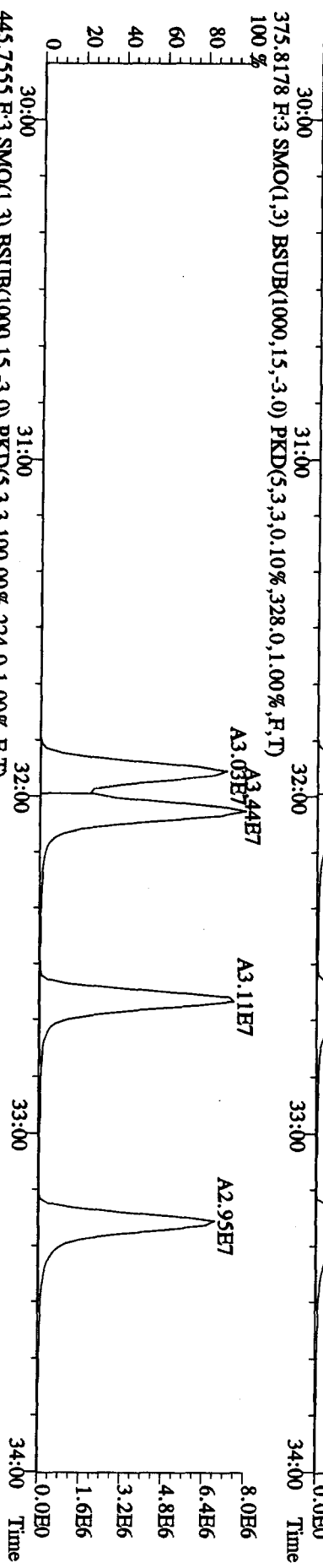
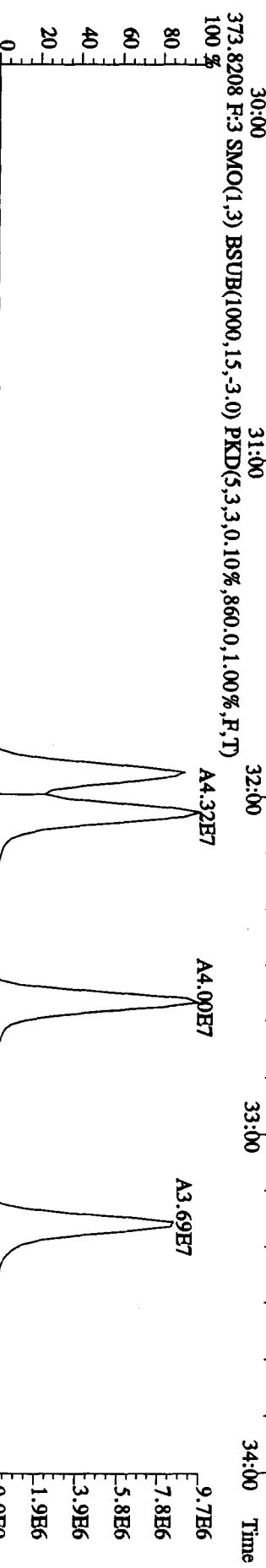
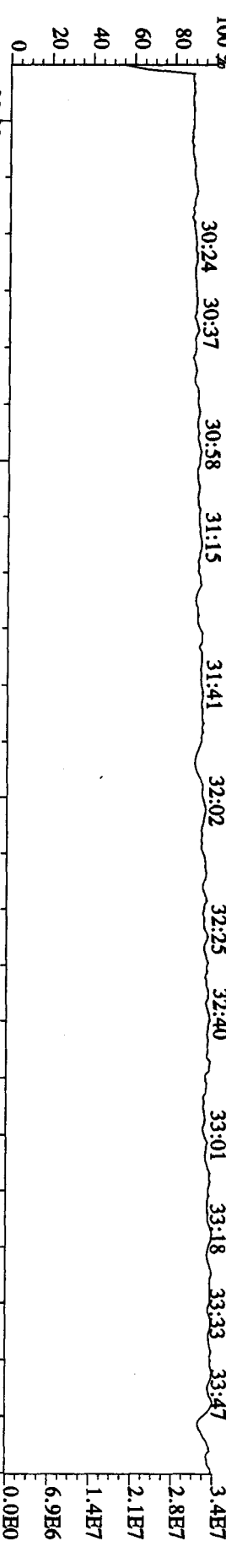
341.8567 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1936.0,1.00%,F,T) 100 23:00 24:00 25:00 26:00 27:00 28:00 29:00

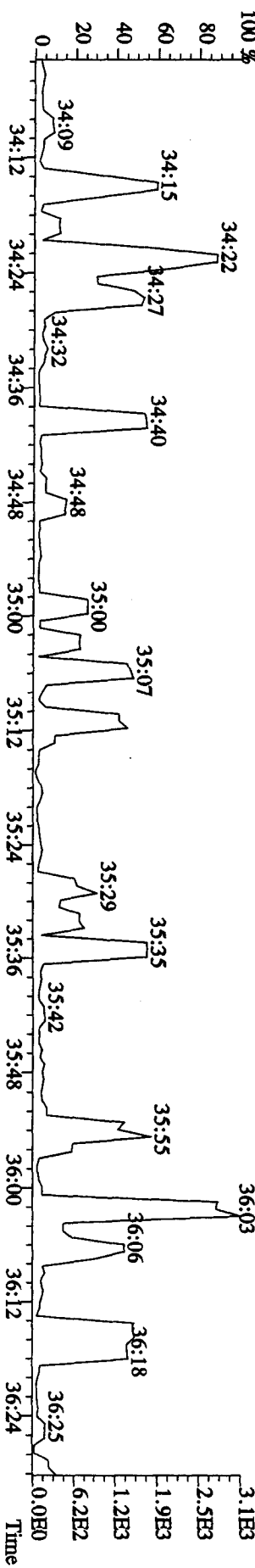
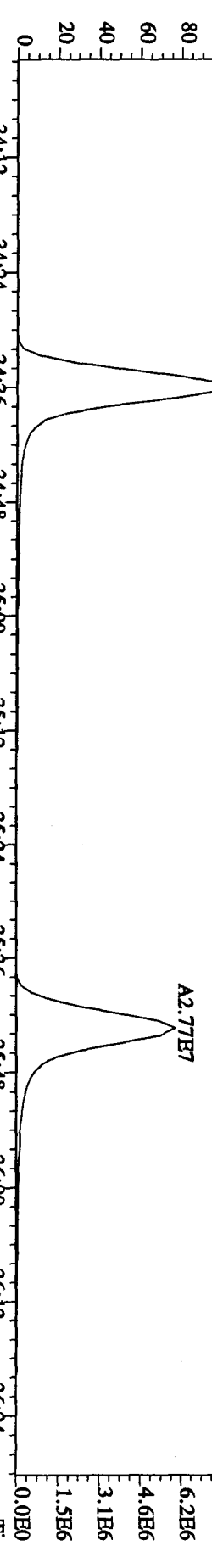
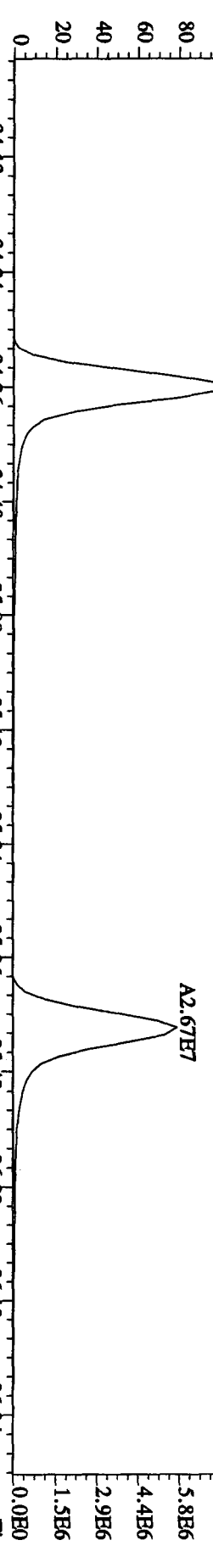
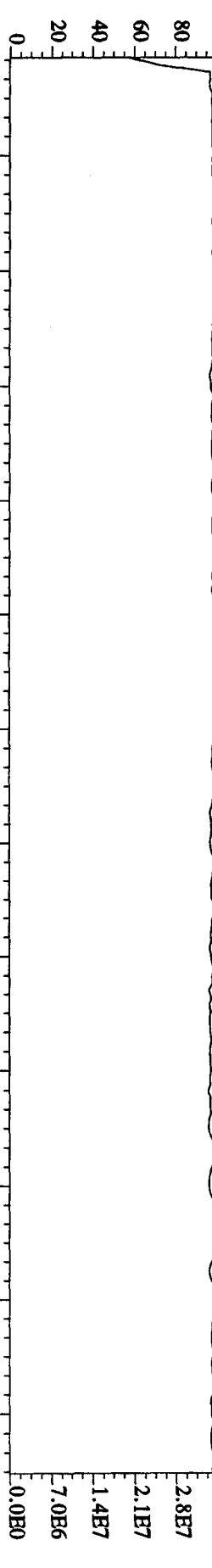


409.7974 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,128.0,1.00%,F,T) 100 23:00 24:00 25:00 26:00 27:00 28:00 29:00

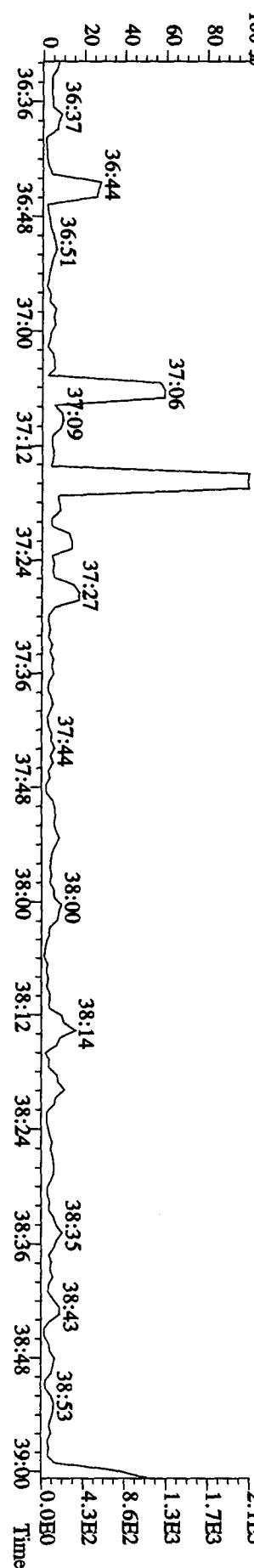
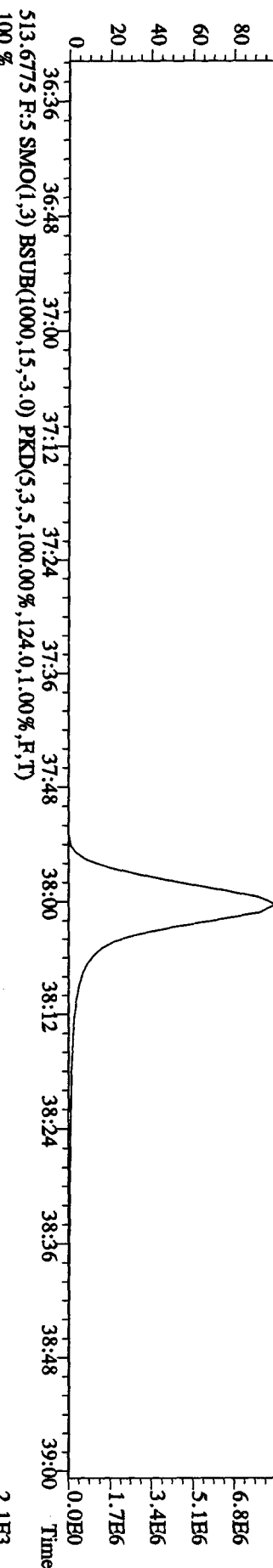
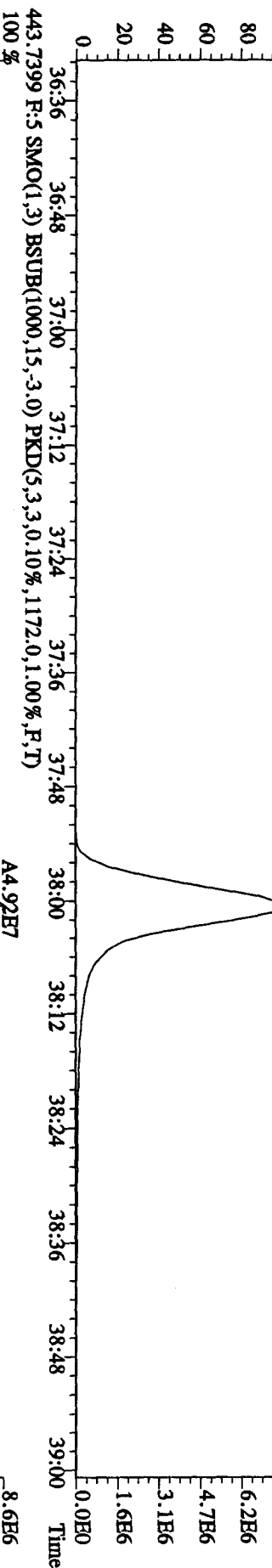
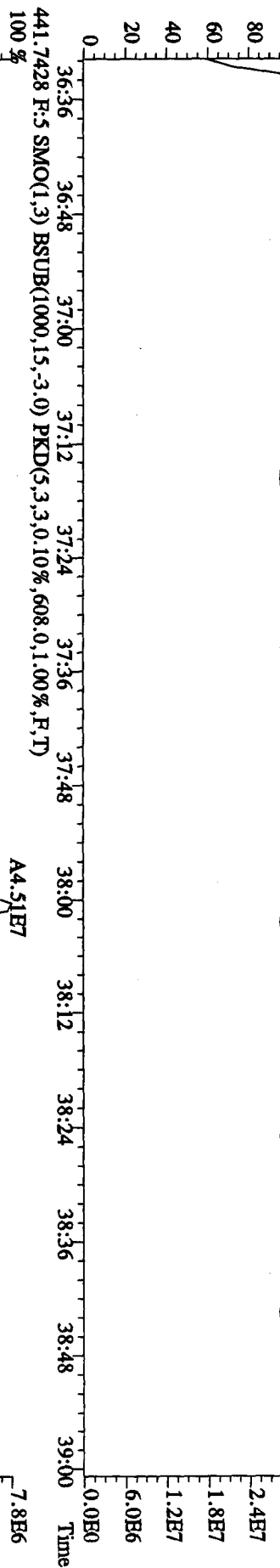


File:01MYY104D5 #1-316 Acq: 1-MAY-2010 08:48:19 GC HF+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 430.9728 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

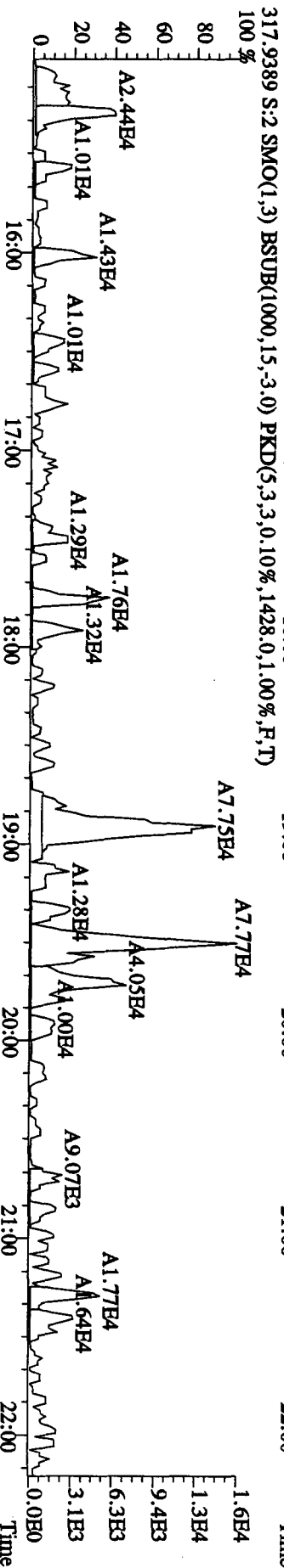
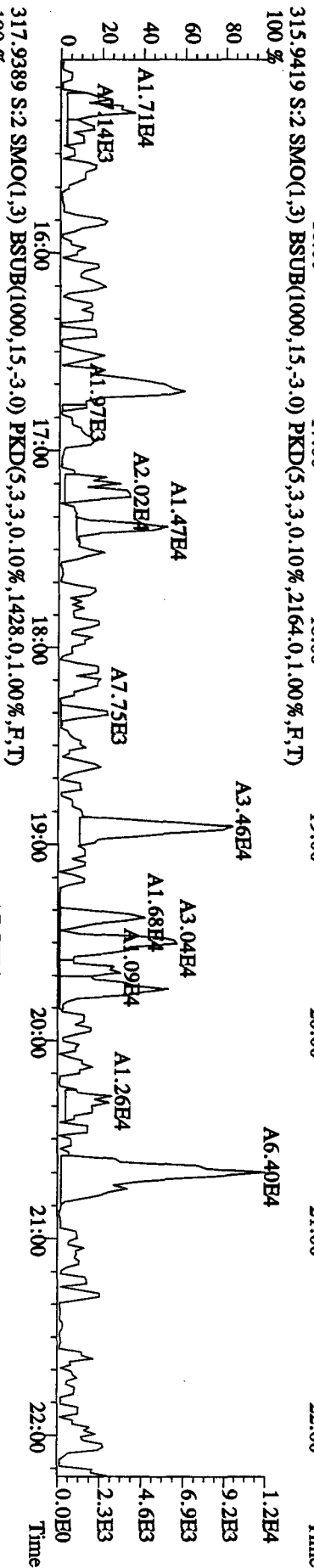
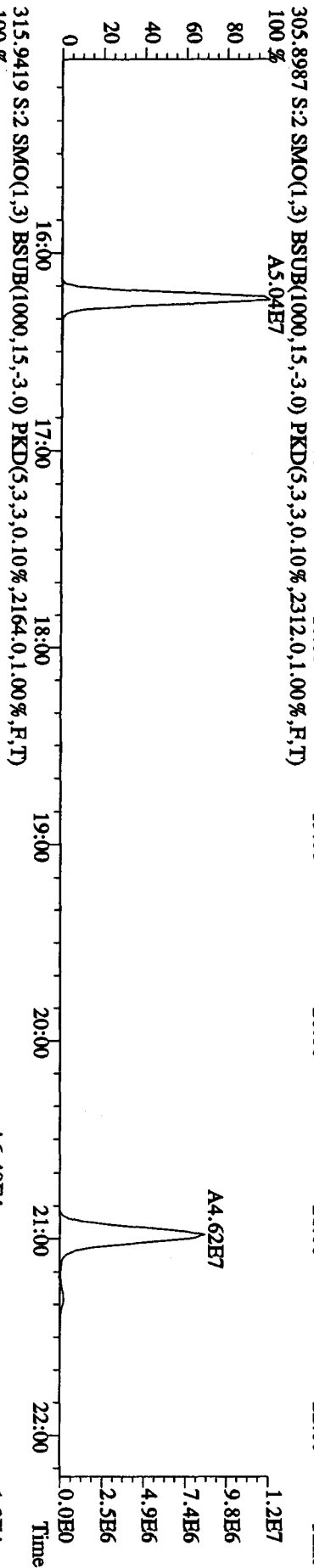
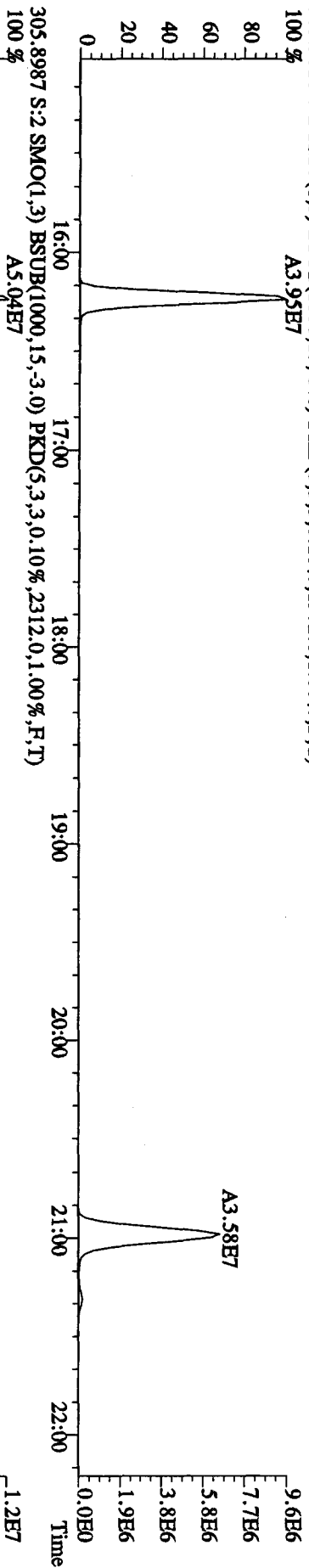




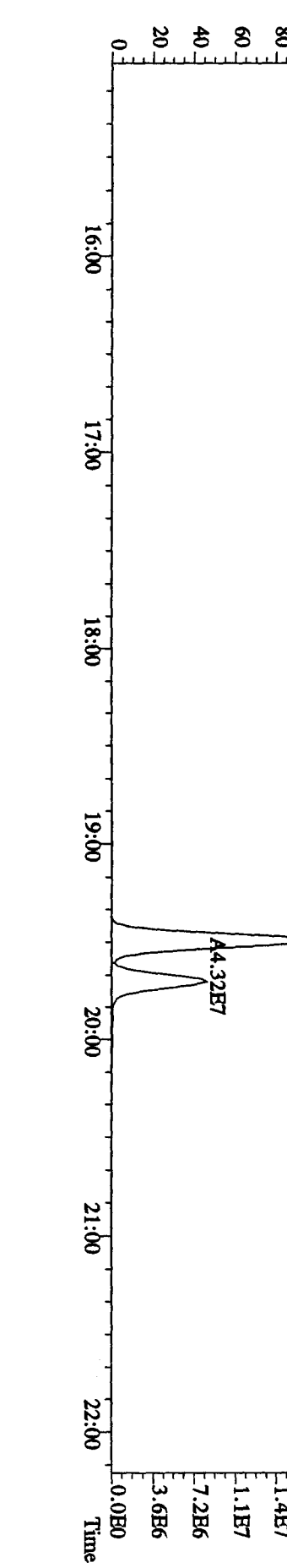
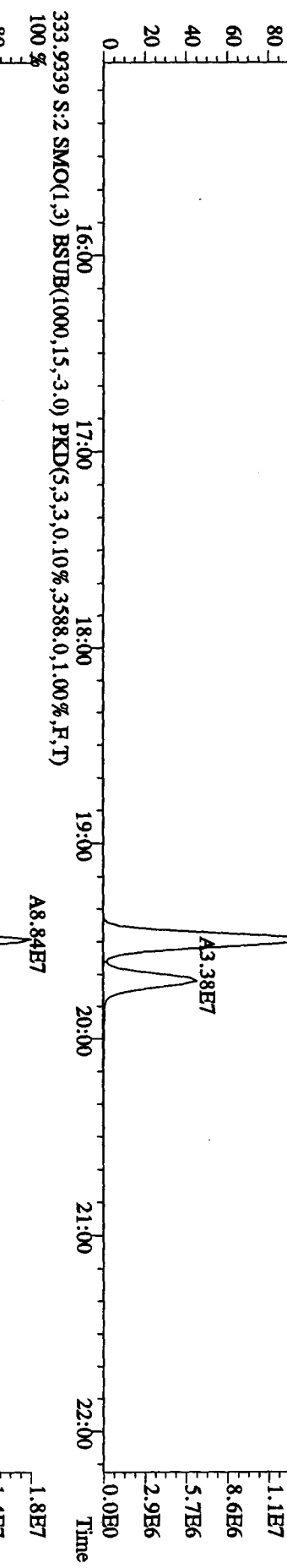
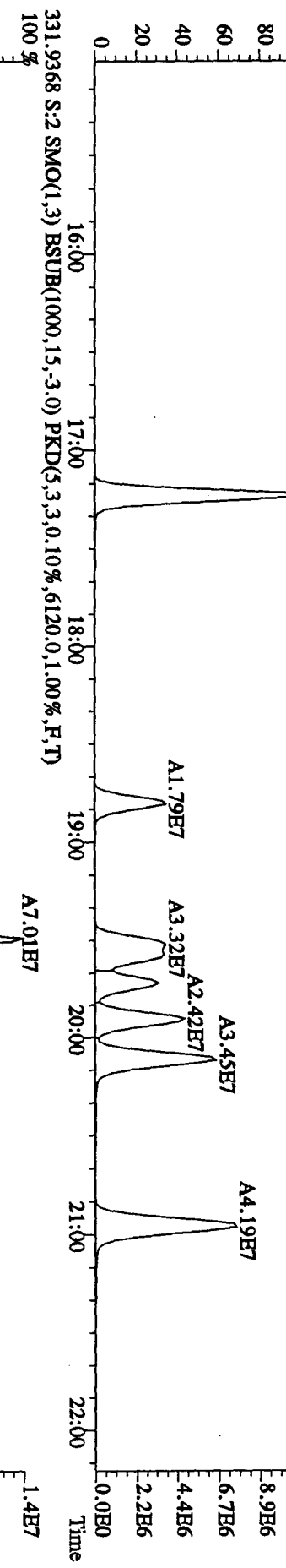
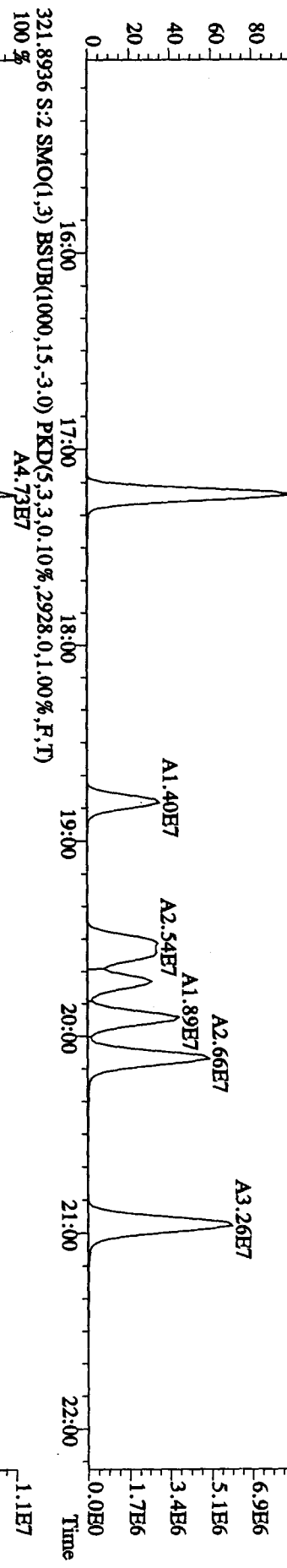
File:01MAY104D5 #1-191 Acq: 1-MAY-2010 08:48:19 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:ST0501 :CS3 10DXN083 Exp:DIOXINRES8290A
 442.9728 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 36:40 37:04 37:31 37:41 37:56 38:09 38:28 38:47 38:55



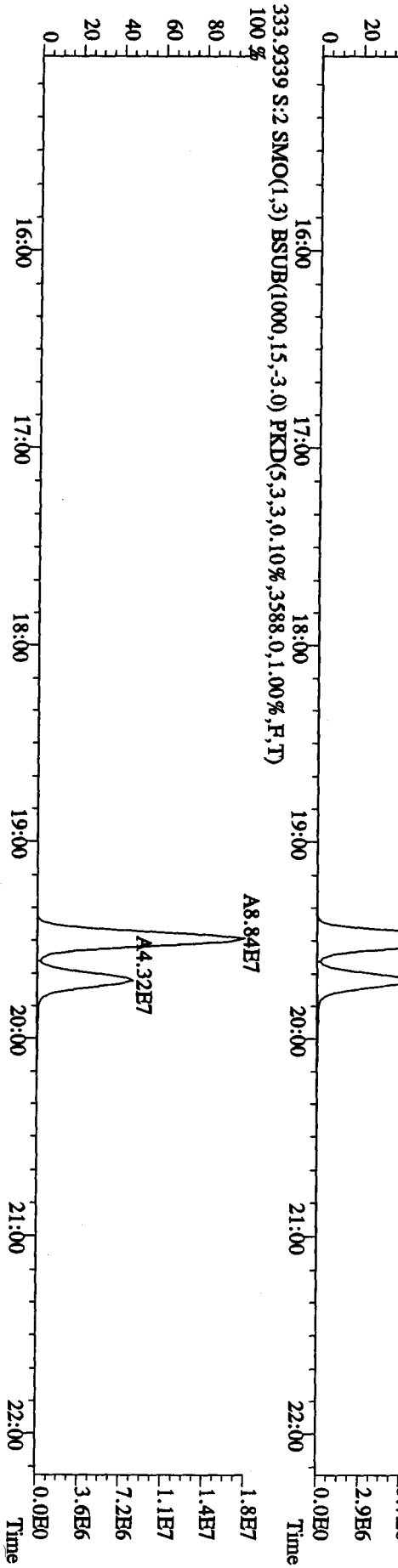
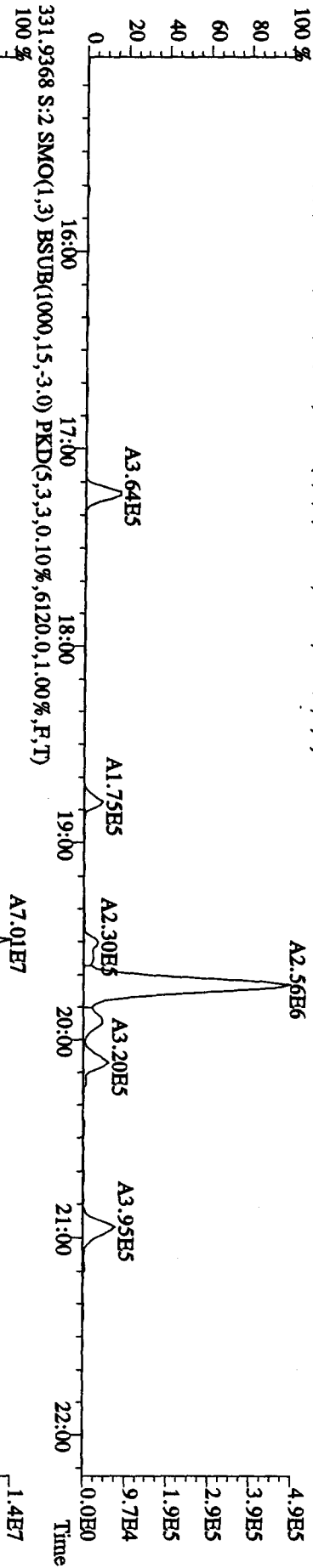
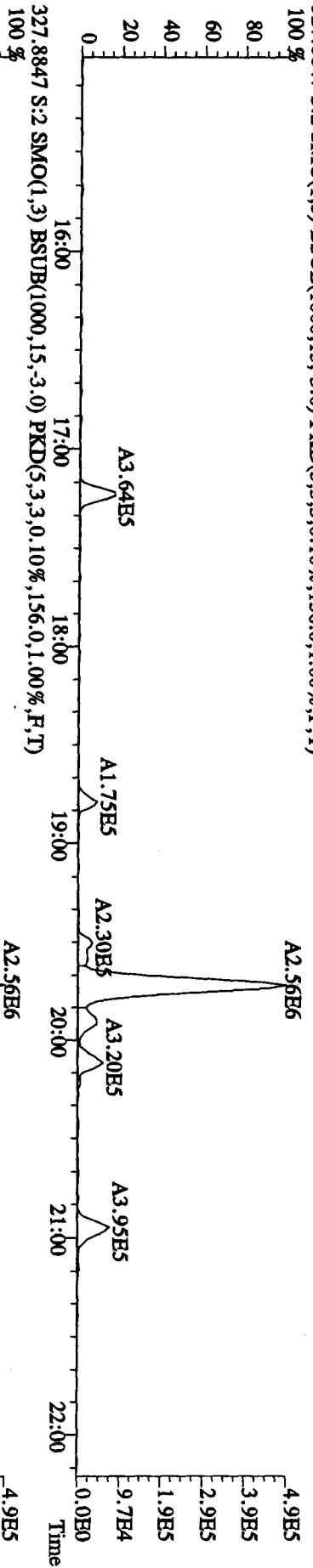
File:01MY104D5 #1-434 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.972,0.1,0.0%,F,T)
 100 % A3.95E7



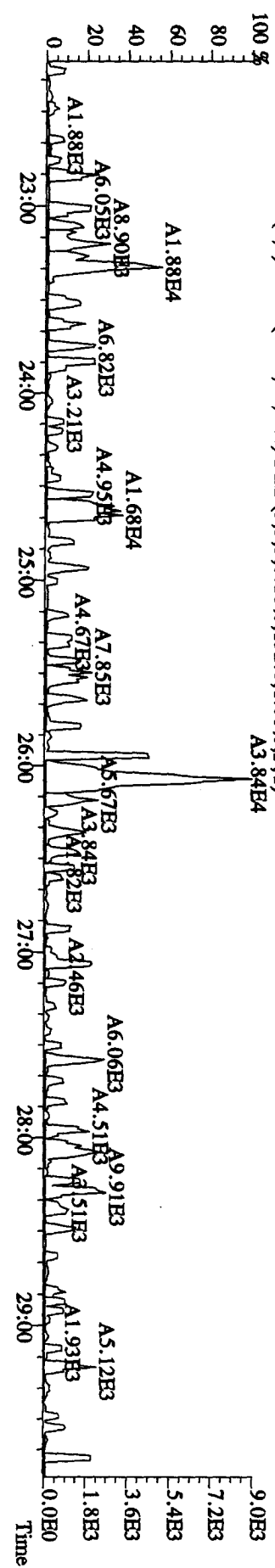
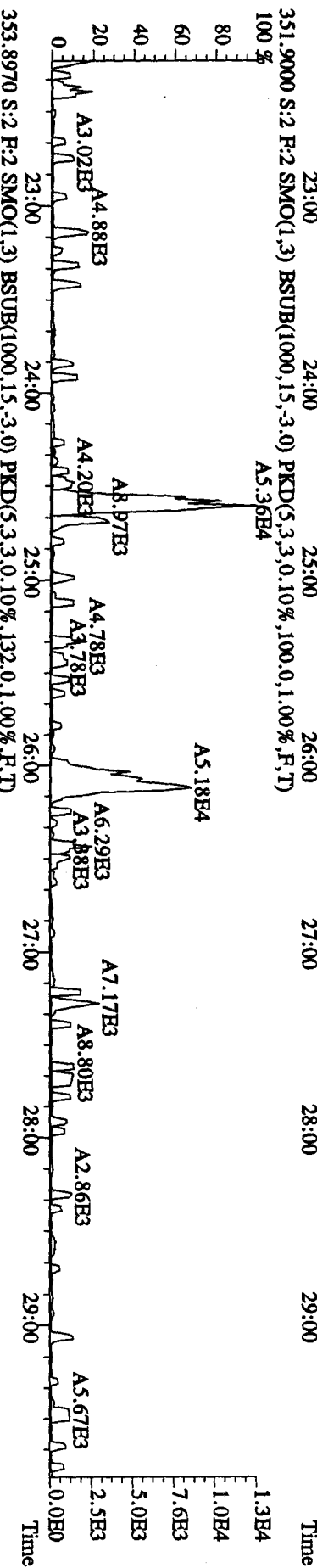
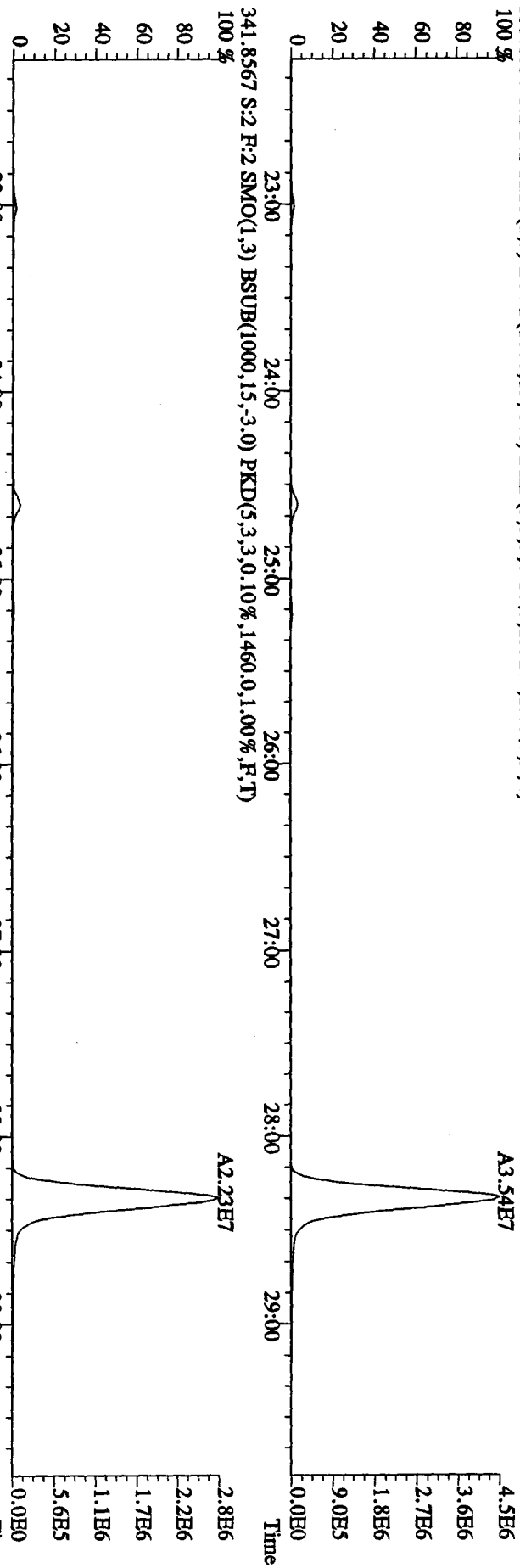
File:01MKT104D5 #1-434 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1920,0,1,00%,F,T) 100 %
 A3.65E7



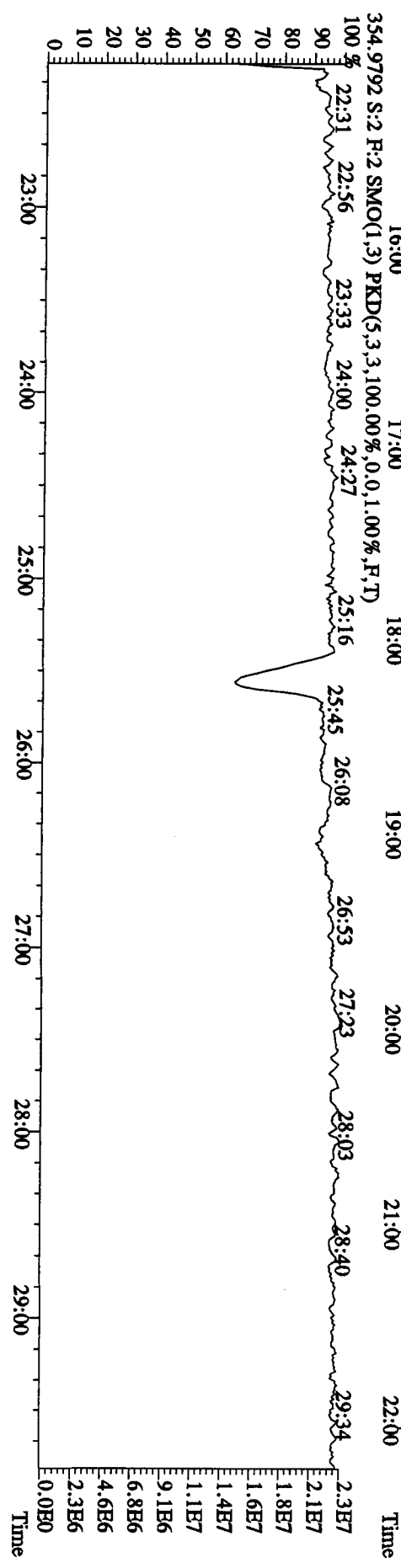
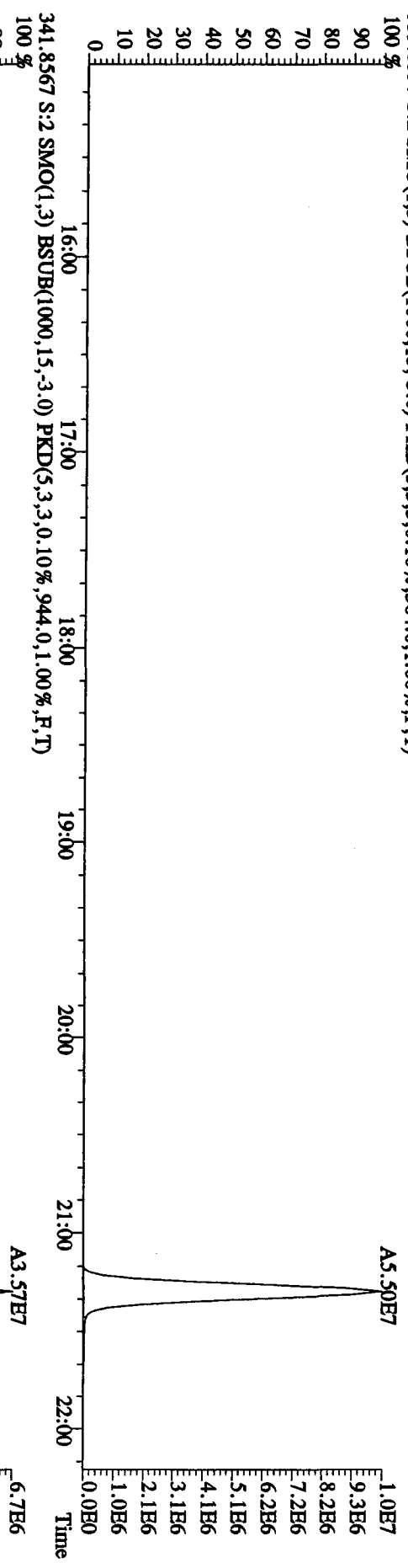
File:01MYY104D5 #1-434 Acq: 1-MAY-2010 09:32:20 GC: EI+ Voltage: SIR Autospec-UltimaB
 Sample#2 Text:CP0501 :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A
 327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,156.0,1.00%,F,T)



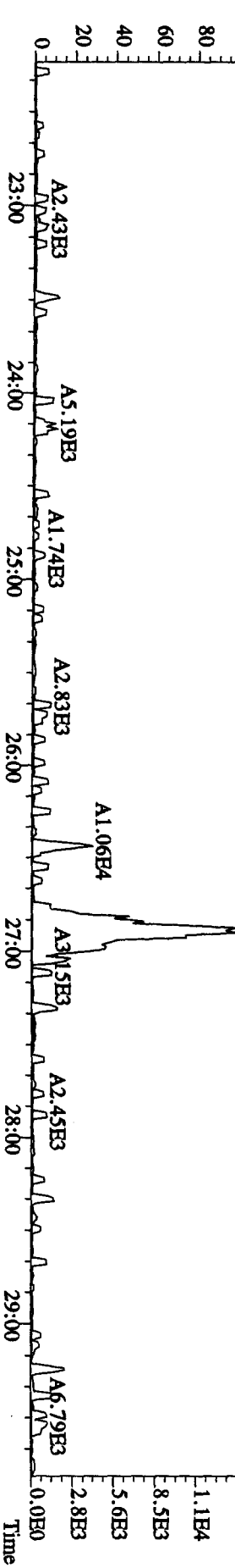
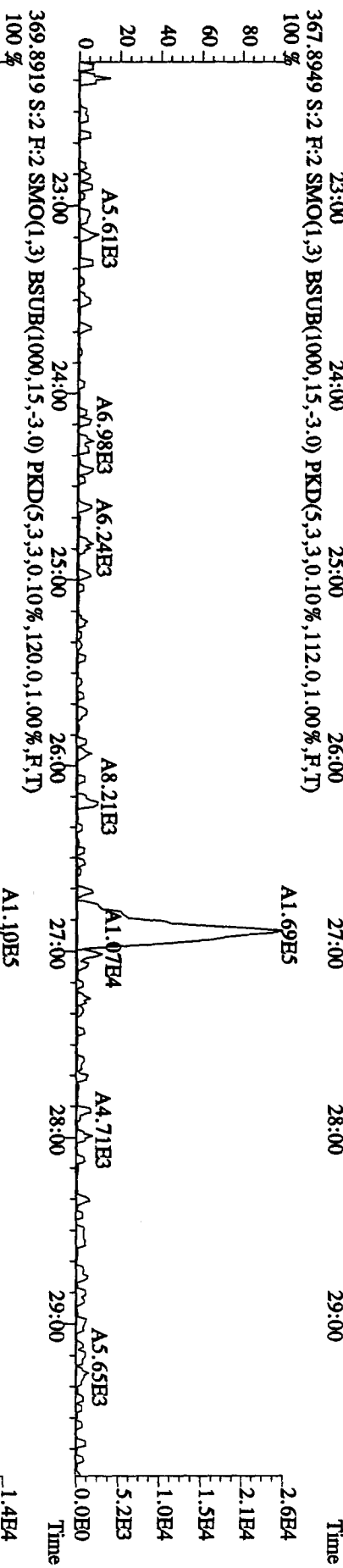
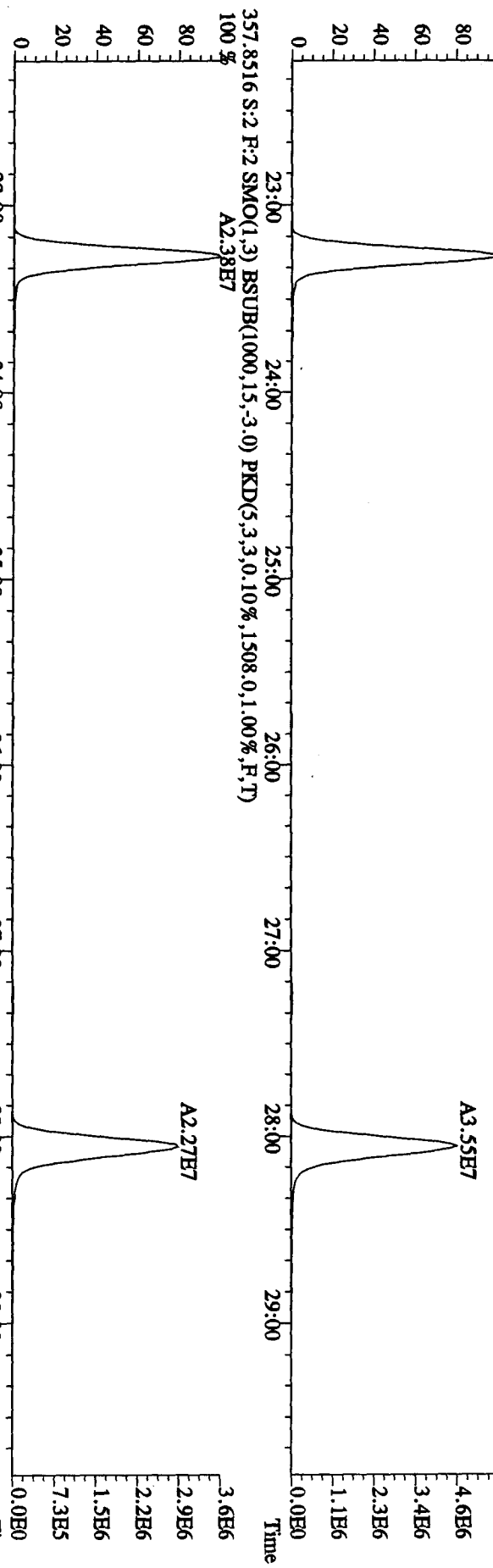
File: 01MAY104D5 #1-605 Acq: 1-MAY-2010 09:32:20 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text: CP0501 :DB-5 CPSM 3732-05 Exp: DIOXINRES8290A
 339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1592.0,1.00%,F,T)



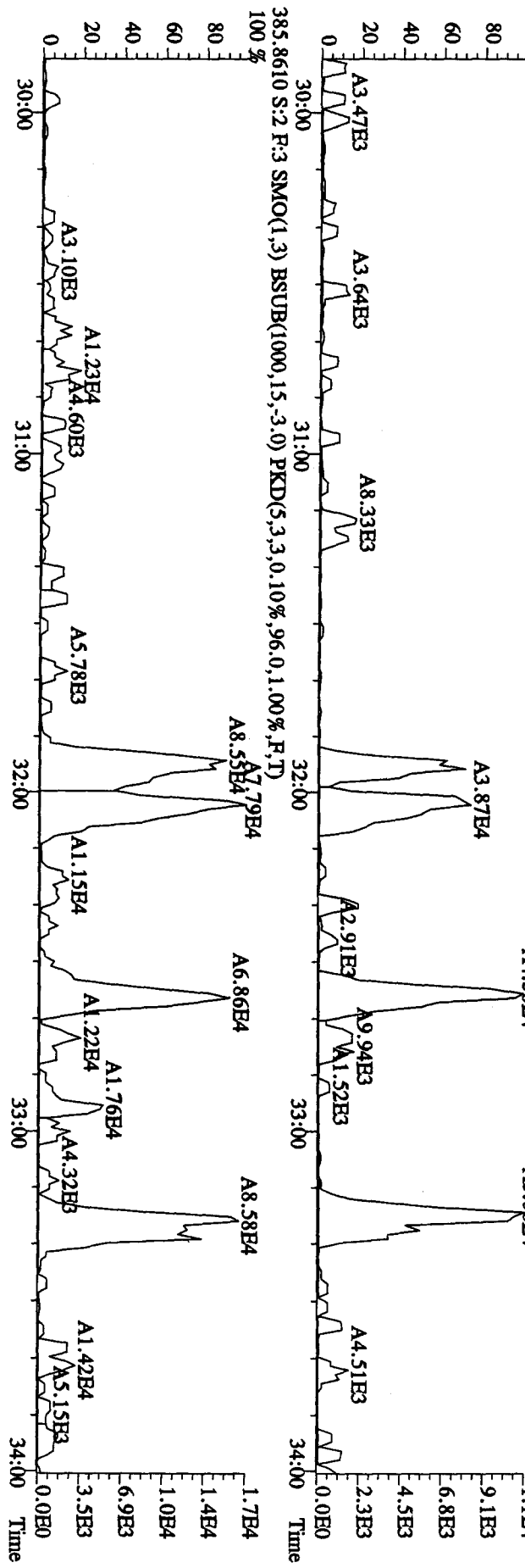
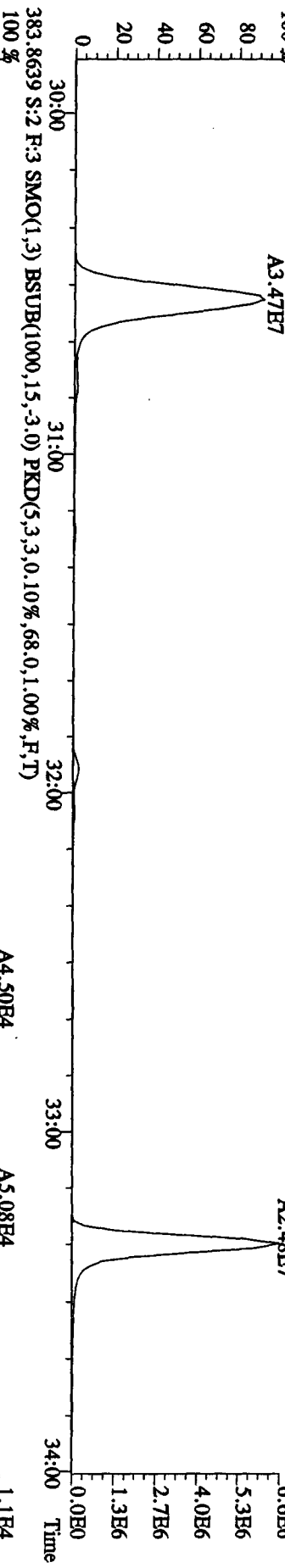
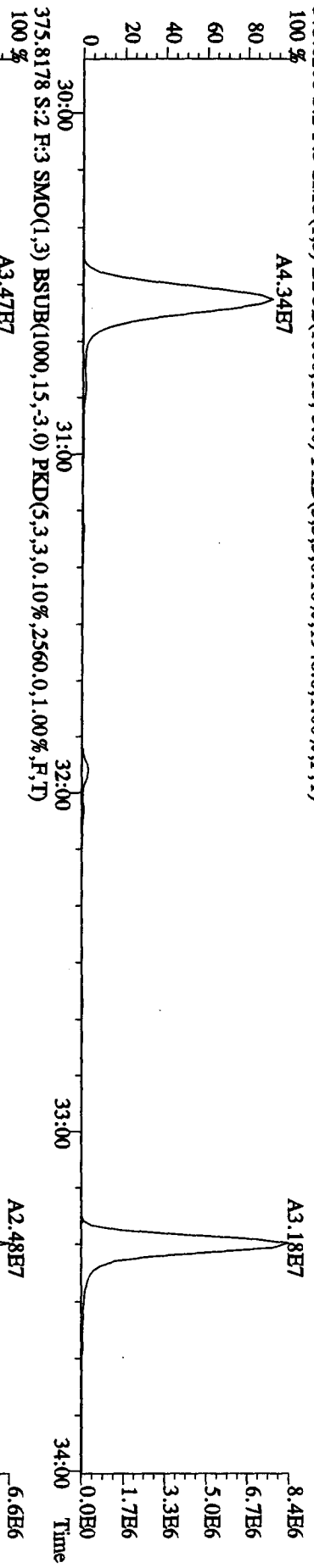
File:01MY104D5 #1-434 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:CP0501 :DB-5 CPISM 3732-05 Exp:DIOXINRES8290A
 339.8397 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,944.0,1.00%,F,T)



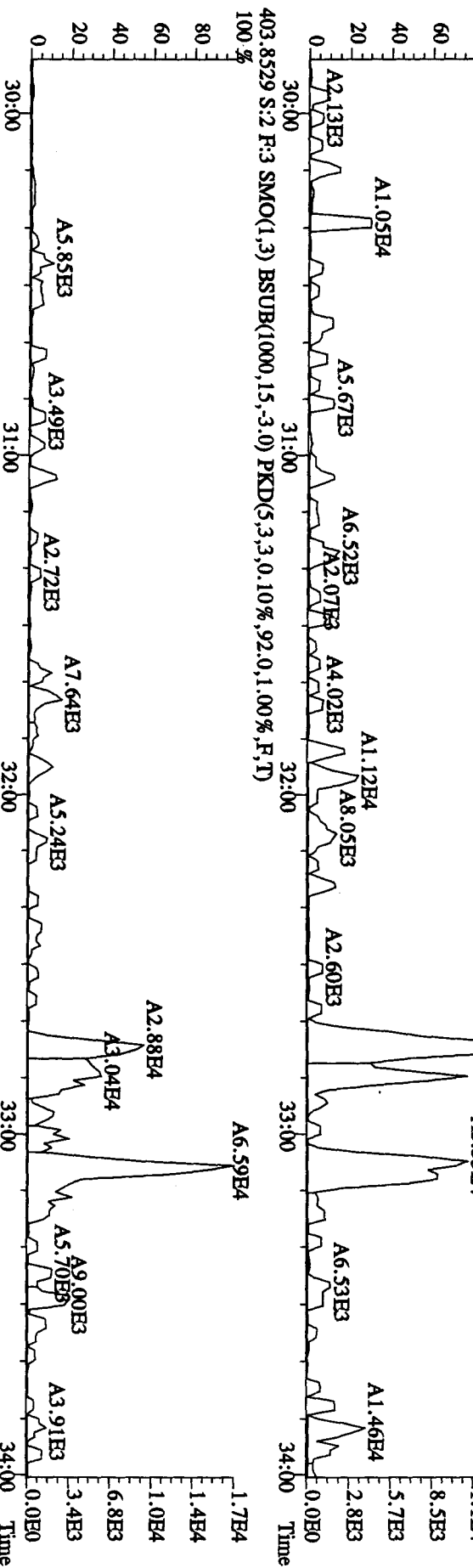
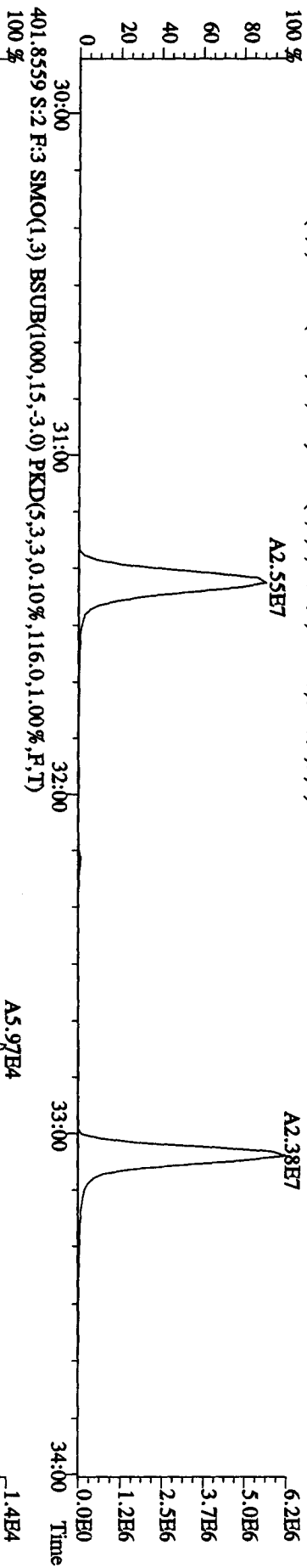
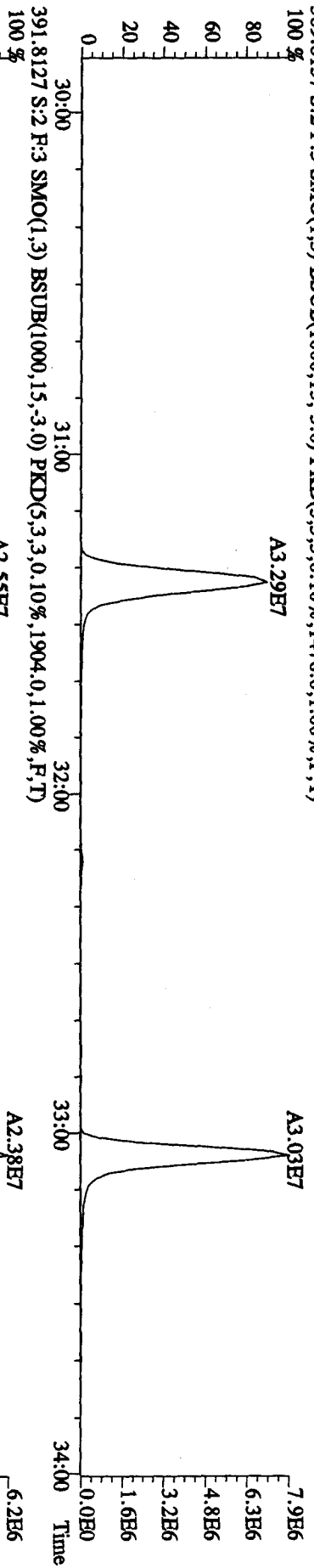
File:01MAY104D5 #1-605 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:CP0501 :DB-5 CPM 3732-05 Exp:DIOXINRES8290A
 357.8516 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1508.0,1.00%,F,T)
 100 % A3.72E7



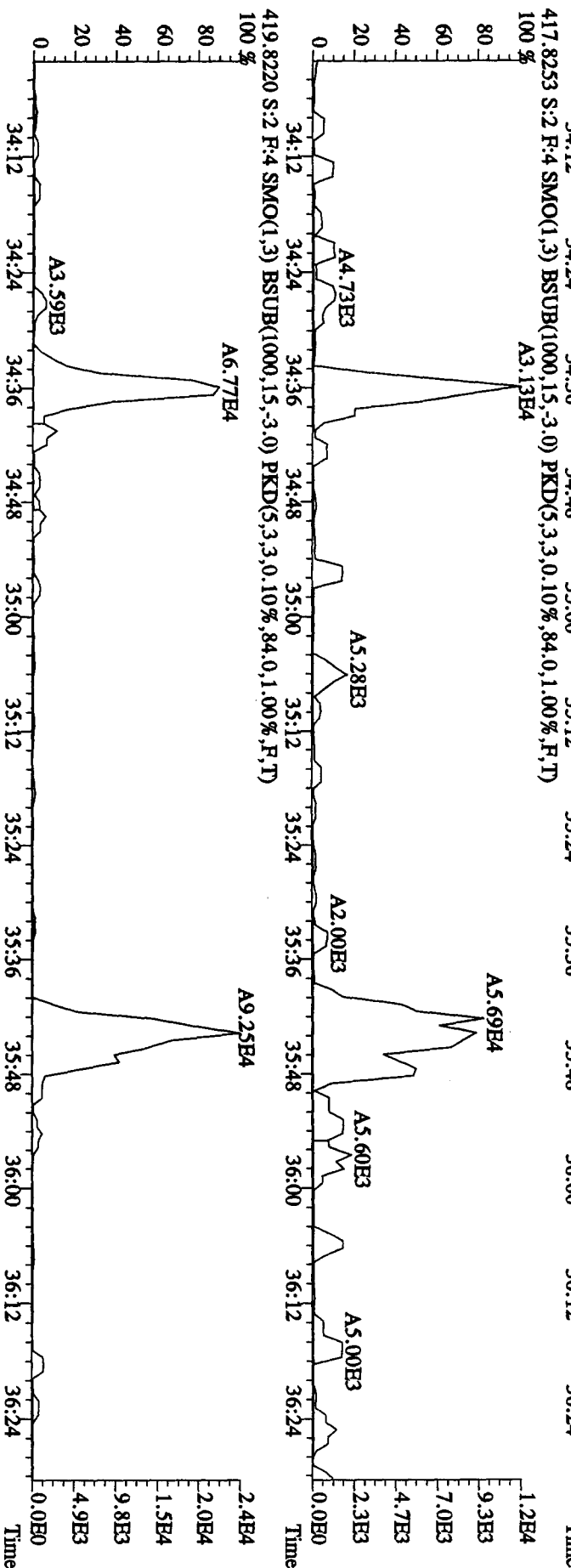
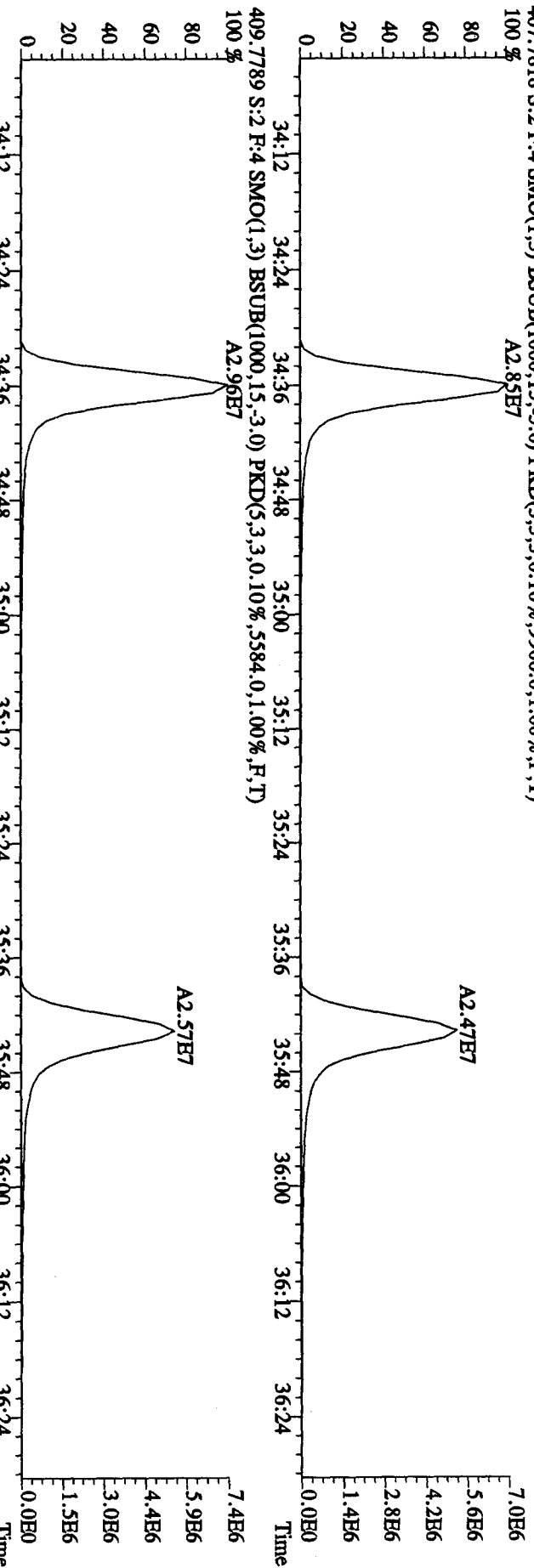
File:01MAY104D5 #1-316 Acq: 1-MAY-2010 09:32:20 GC HI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text:CP0501 :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A
 373.8208 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1948.0,1.00%,F,T)



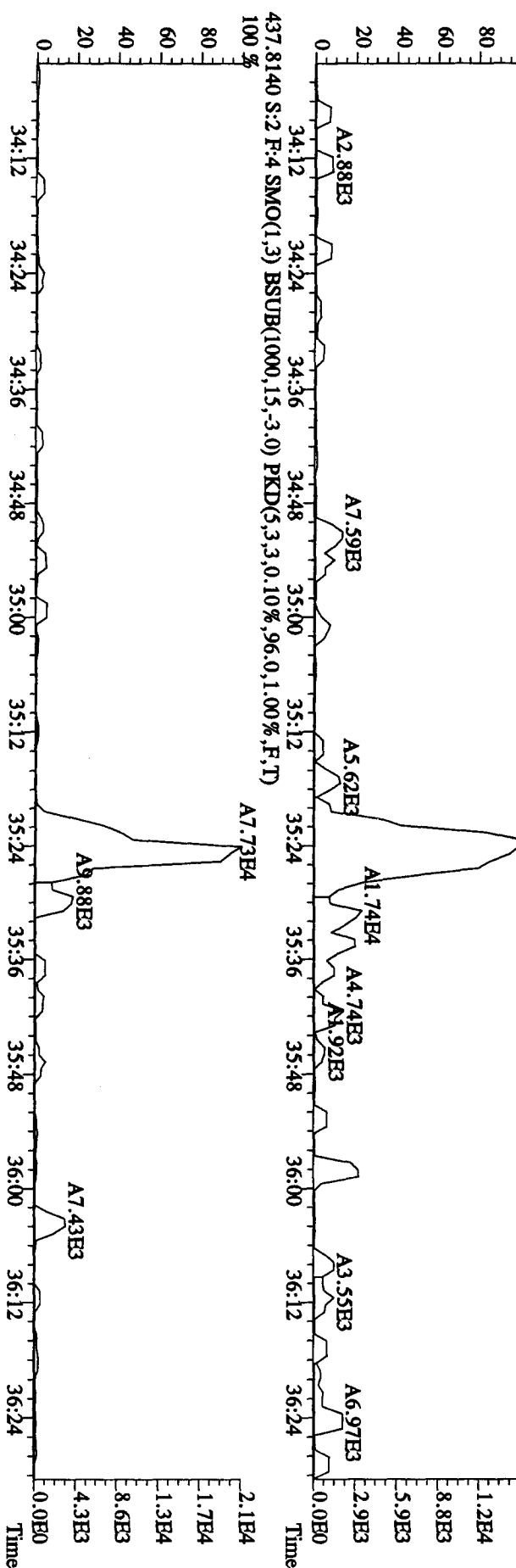
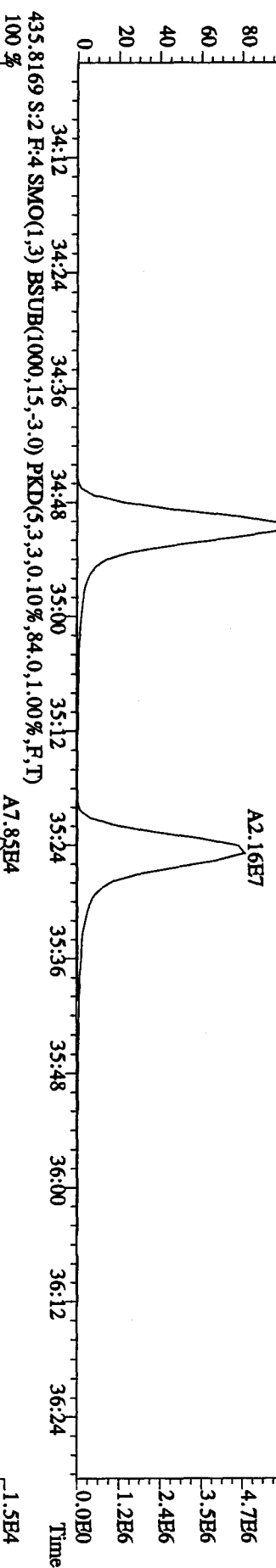
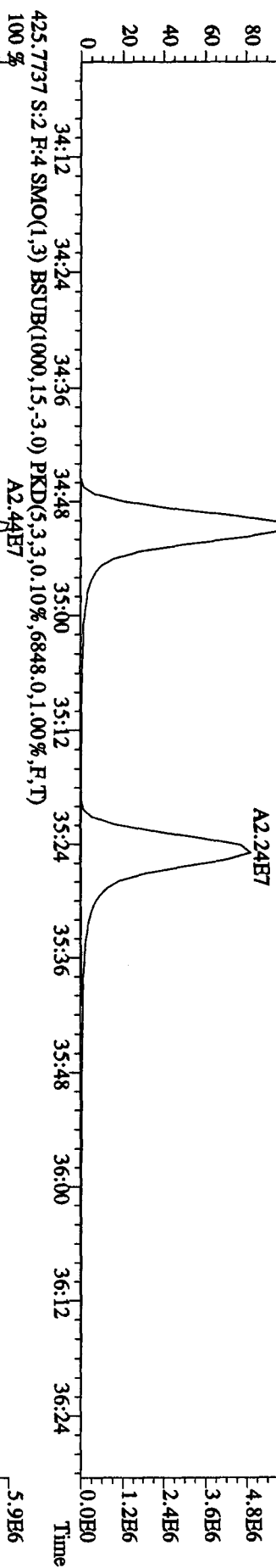
File:01MAY104D5 #1-316 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaF
 Sample#2 Text:CP0501 :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A
 389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1476.0,1.00%,F,T)



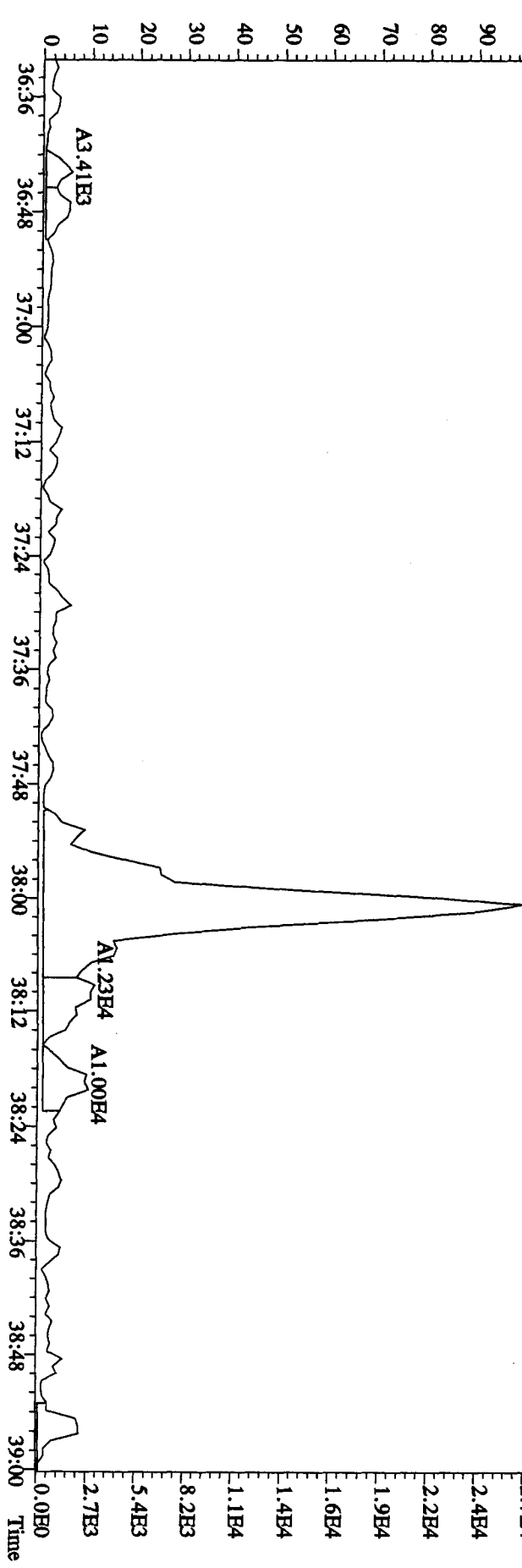
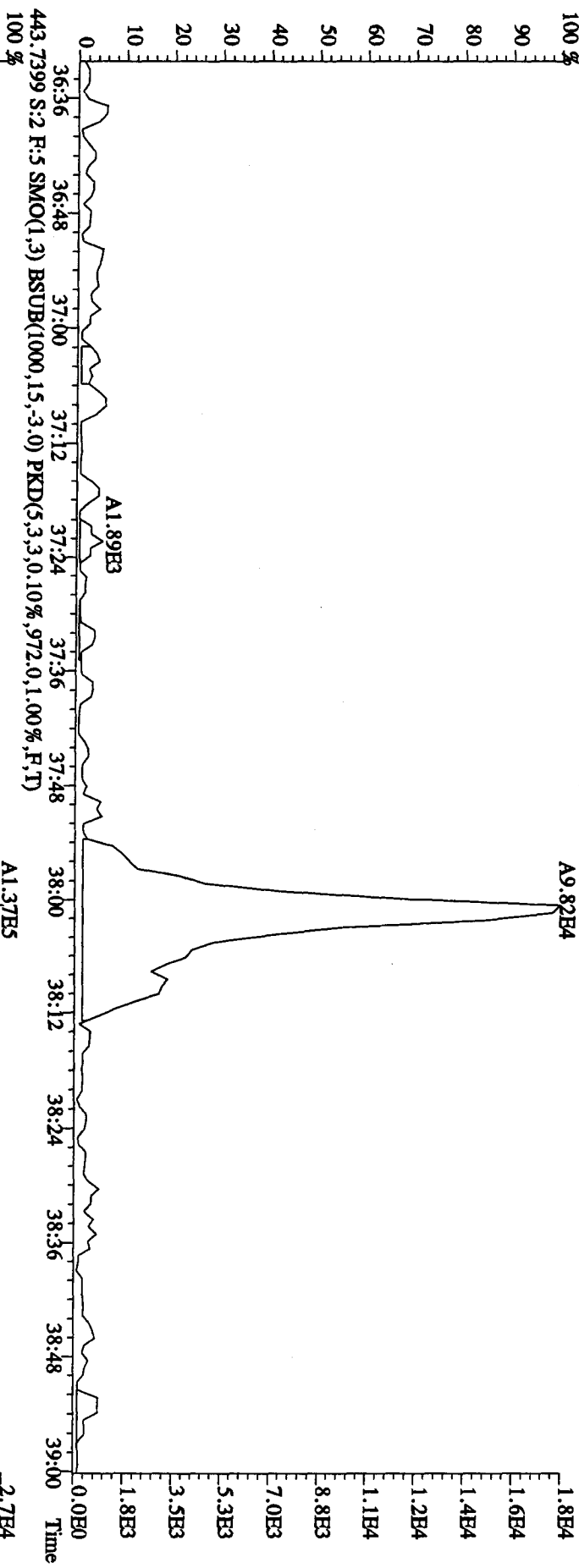
File:01MYY104D5 #1-198 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:CP0501 :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A
 407.7818 S:2 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,9900,0,1,00%,F,T) 100%



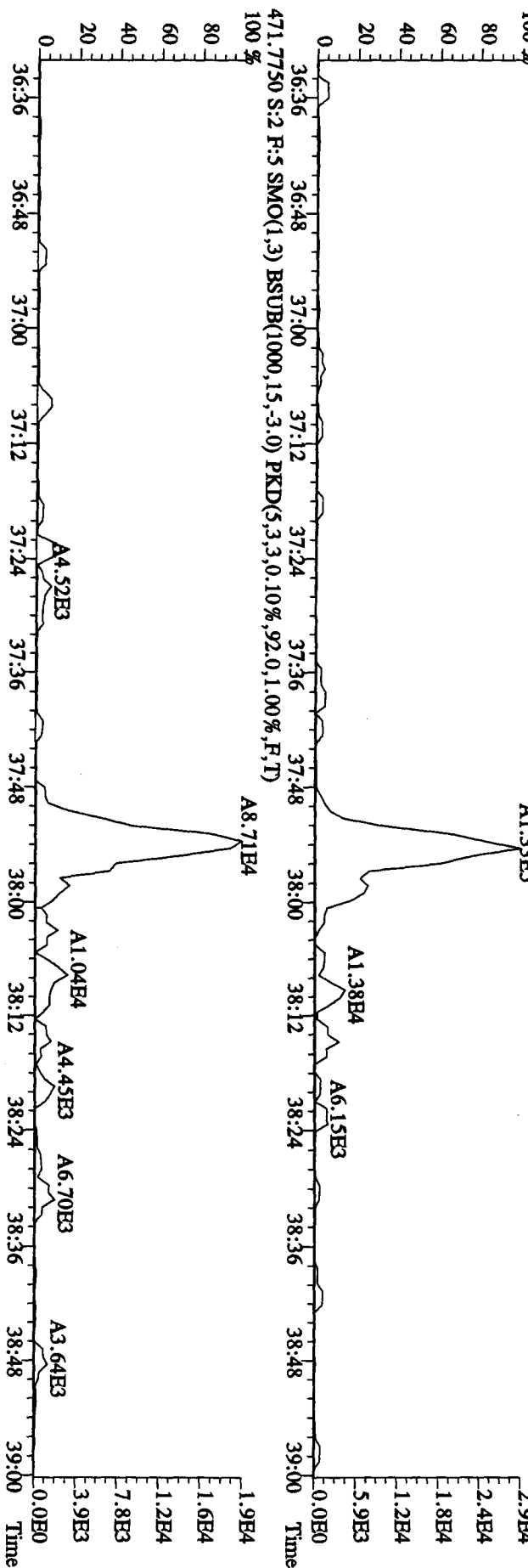
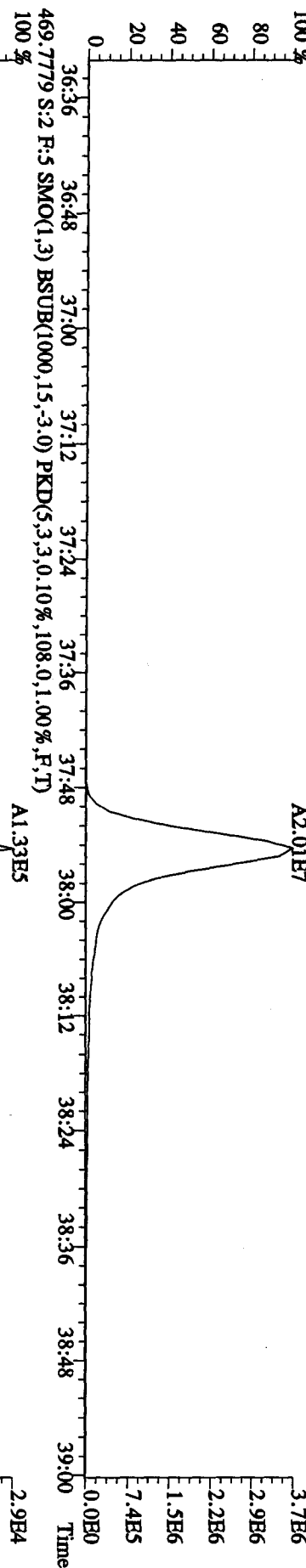
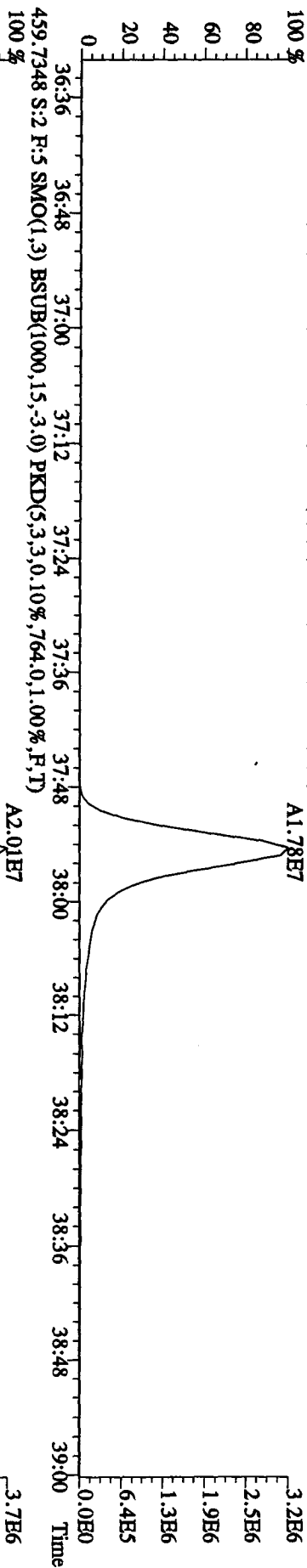
File:01MAY10AD5 #1-198 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,12096.0,1.00%,F,T)
 100 % A2.53E7



File: 01MAY104D5 #1-190 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text: CP0501 :DB-5 CPSM 3732-05 Exp: DIOXINRES8290A
 441.7428 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,496.0,1.00%,F,T)



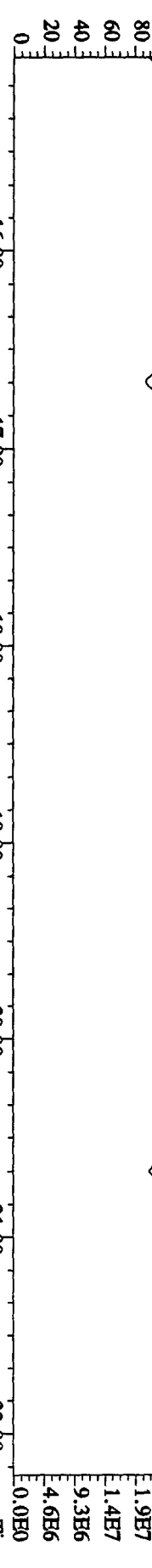
File:01MAY104D5 #1-190 Acq: 1-MAY-2010 09:32:20 GC EI + Voltage SIR Autospec-UltimaE
 Sample#2 Text:CP0501 :DB-5 CPM 3732-05 Exp:DIOXINRSS8290A
 457.7377 S:2 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,504.0,1.00%,F,T) 100 %



File:01MAY104D5 #1-434 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaB

Sample#2 Text:CP0501 :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A

354.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 15:26 16:03 16:26 16:55 17:38 18:08 18:43 19:07 19:46 20:09 21:07 21:32 22:04 2.3E7



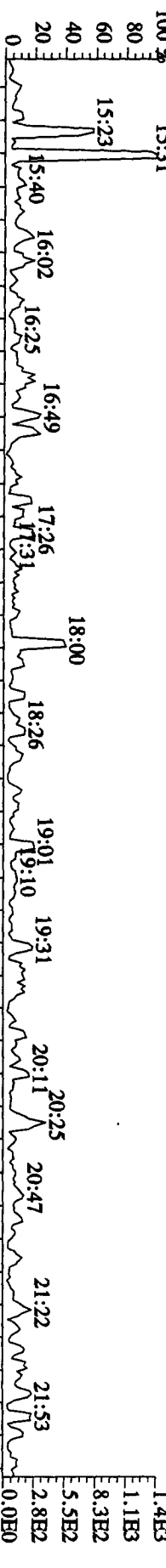
303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1972.0,1.00%,F,T) A3.95E7



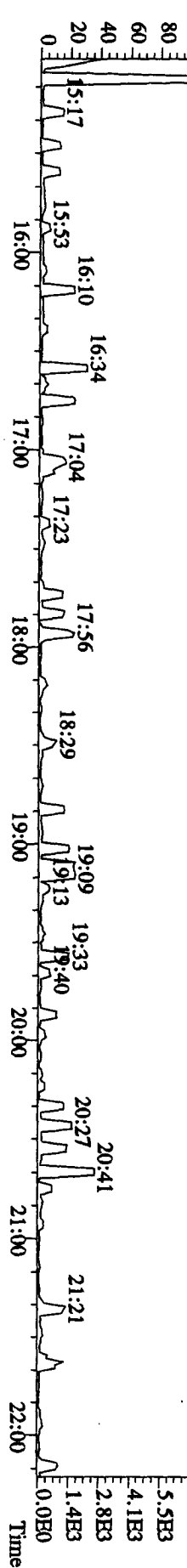
305.8987 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2312.0,1.00%,F,T) A5.04E7



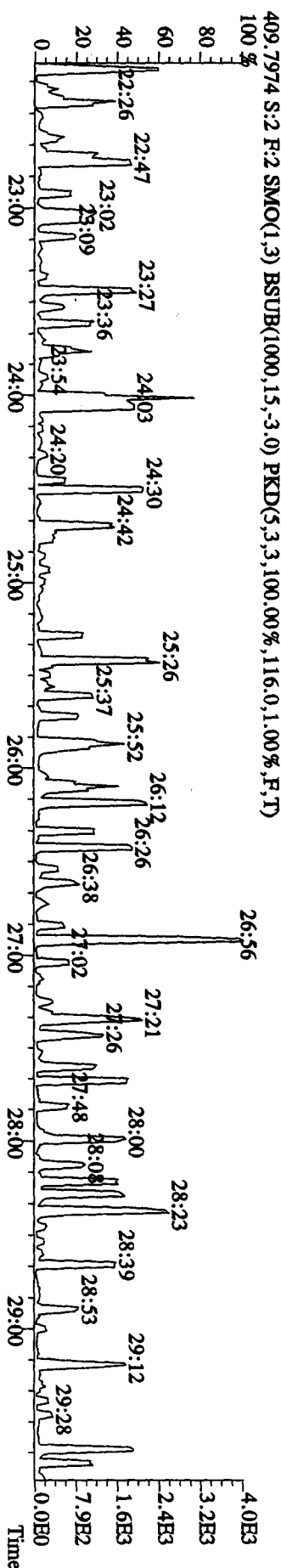
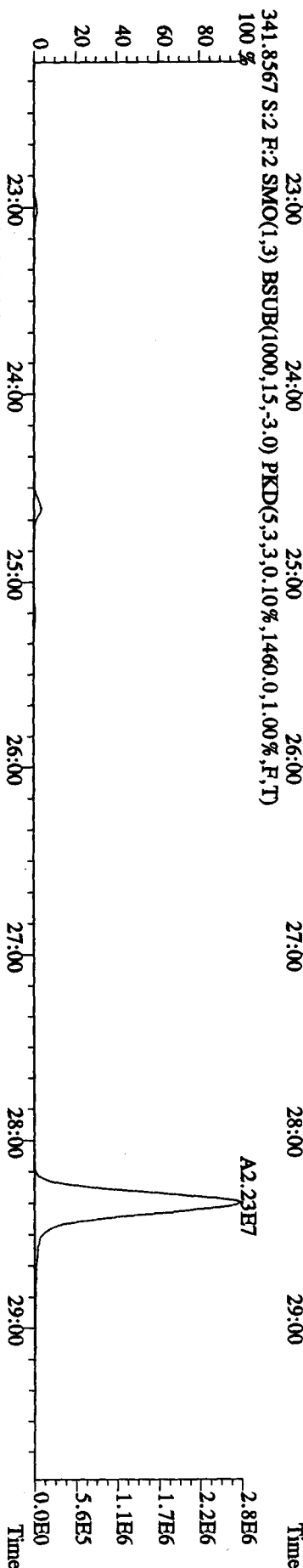
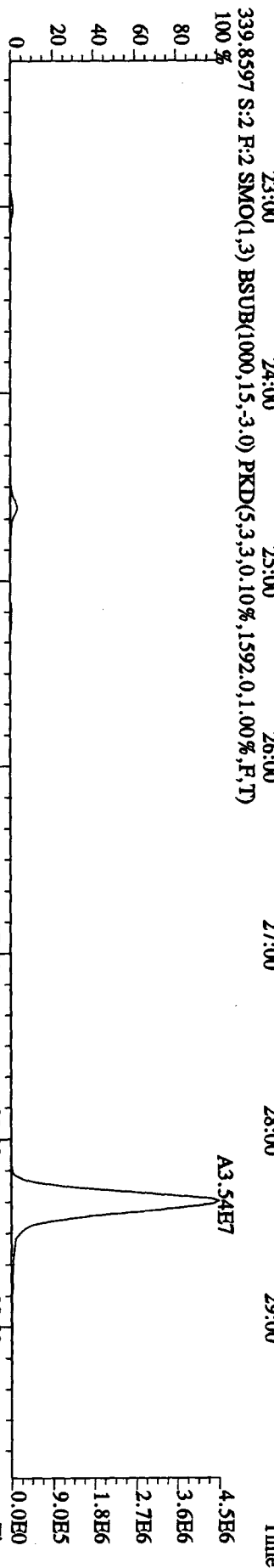
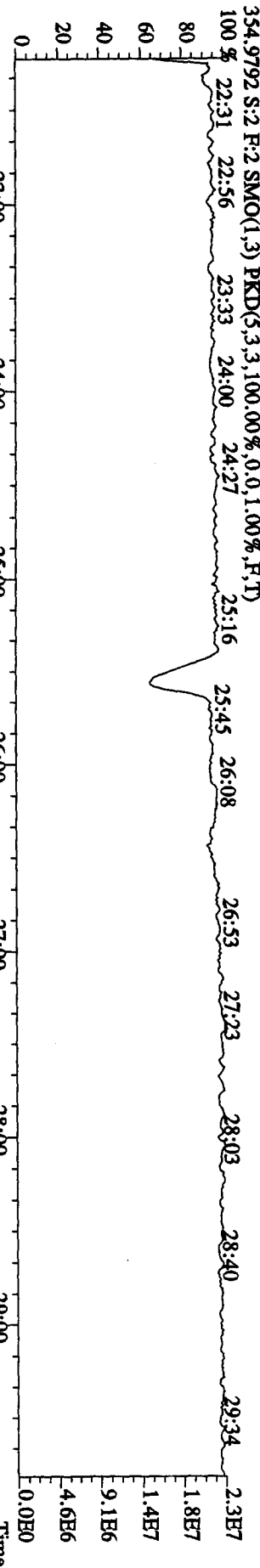
375.8364 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,112.0,1.00%,F,T)



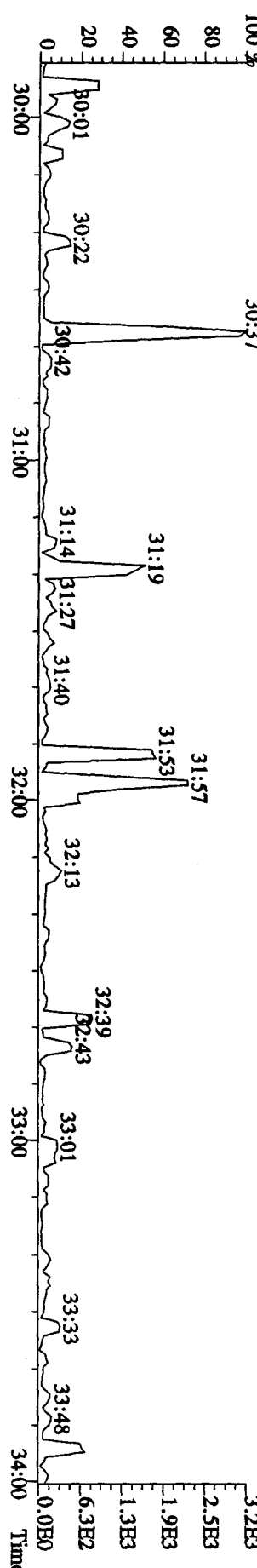
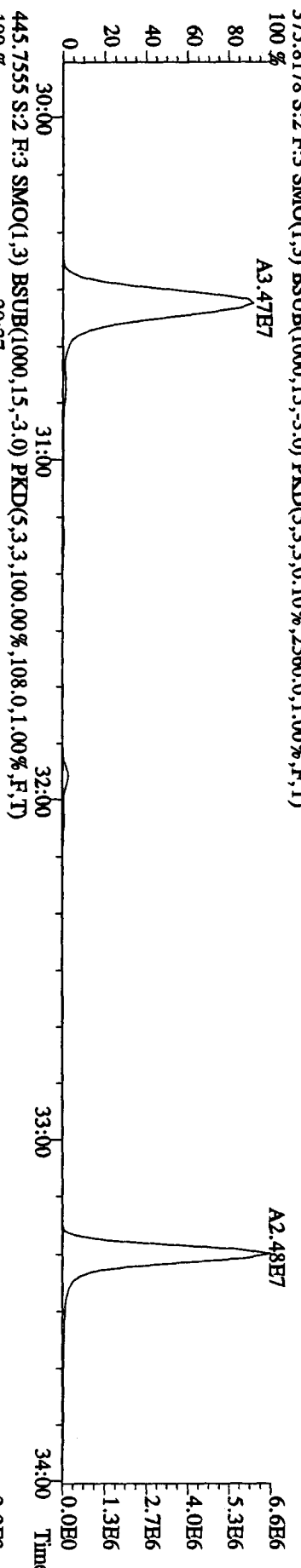
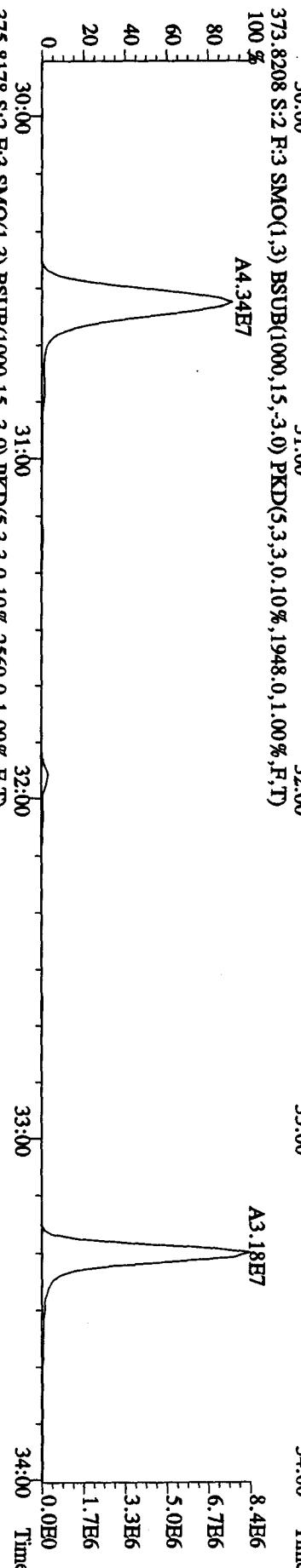
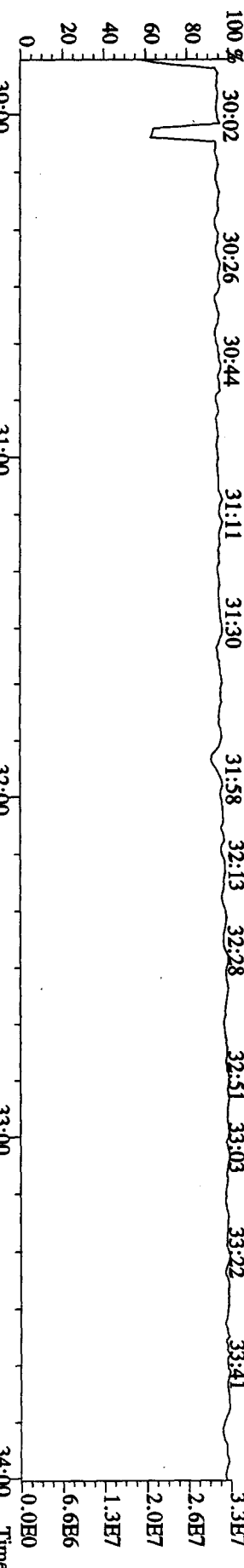
409.7974 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,132.0,1.00%,F,T)



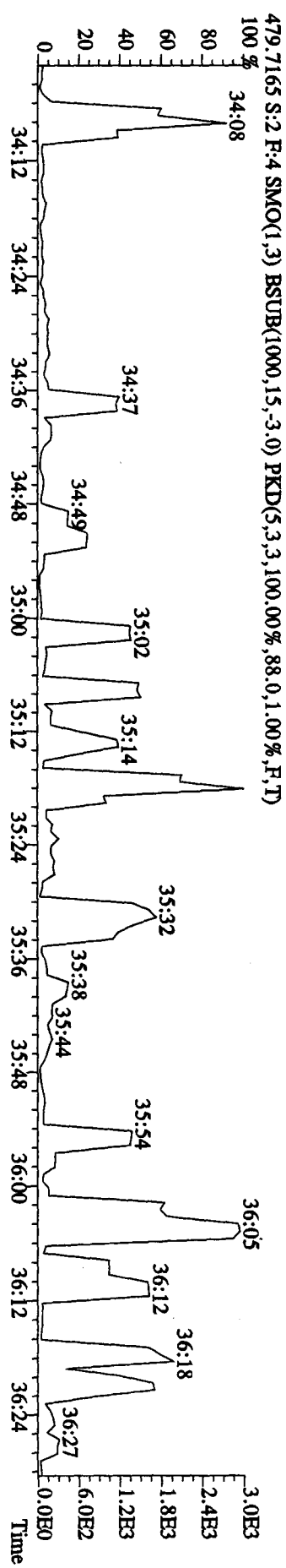
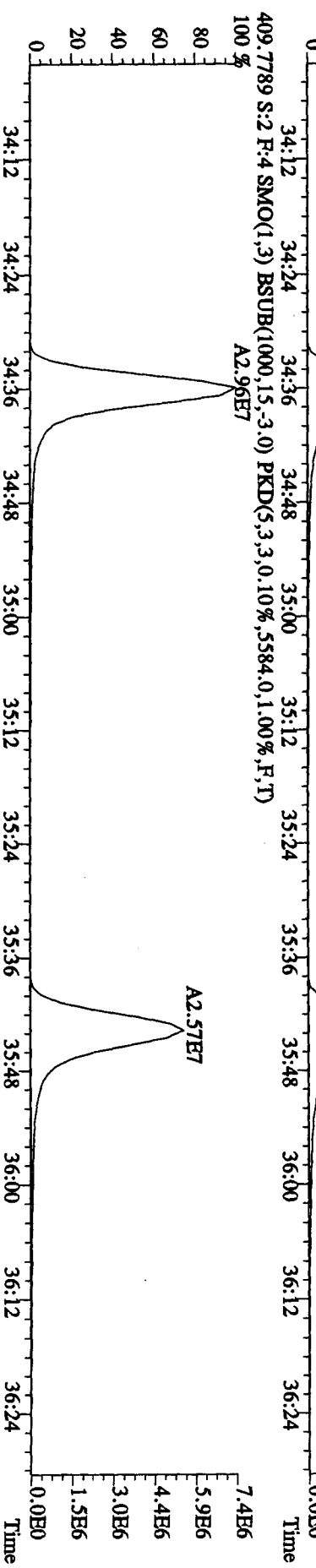
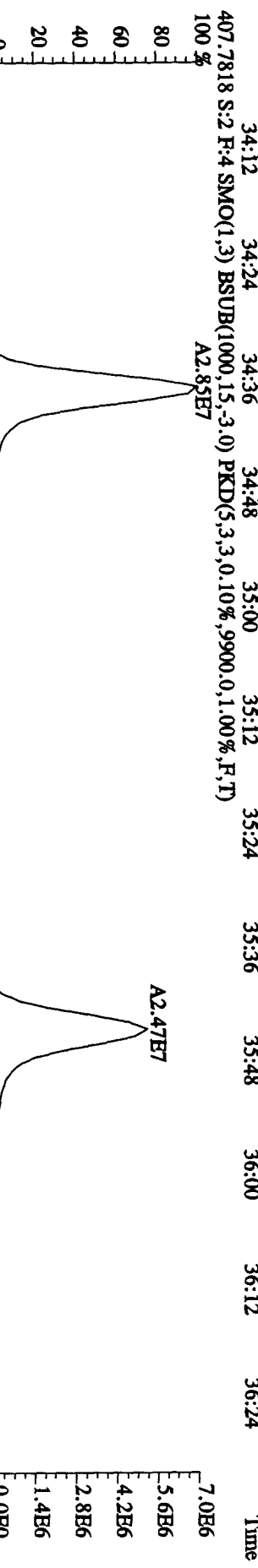
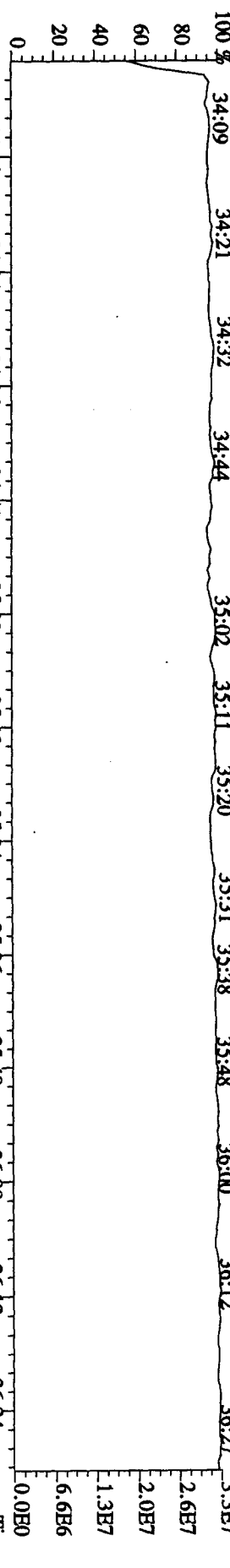
File:01MAY104D5 #1-605 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:CP0501 :DB-5 CPSM 3732-05 Exp:DIOXINRES8290A



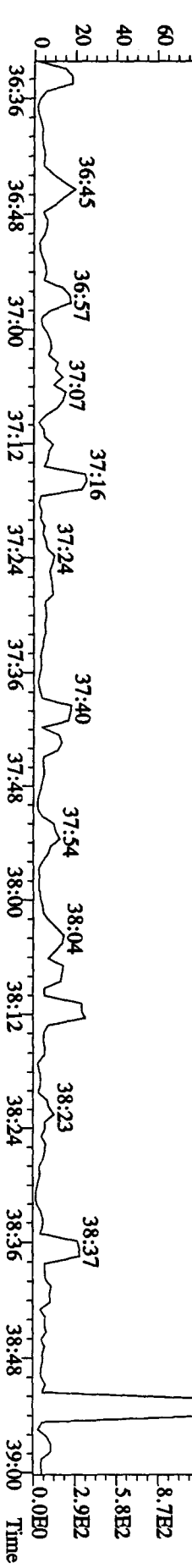
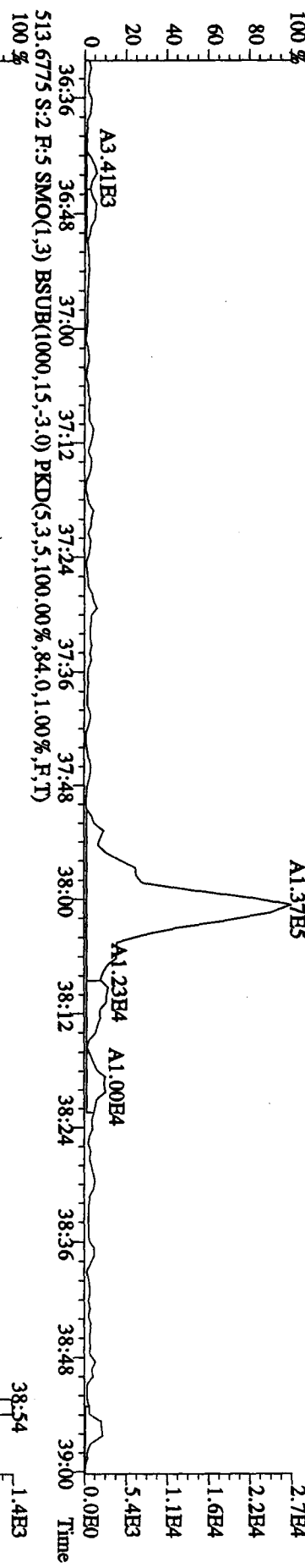
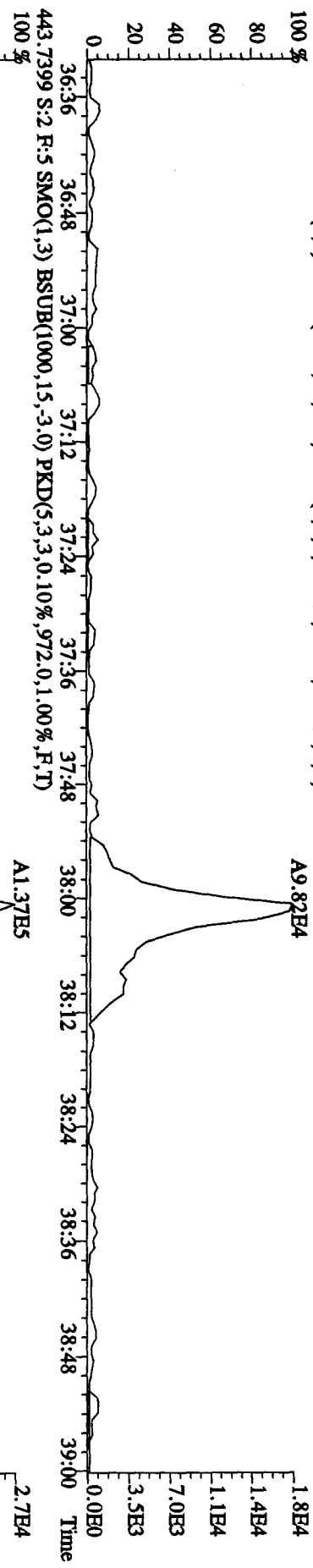
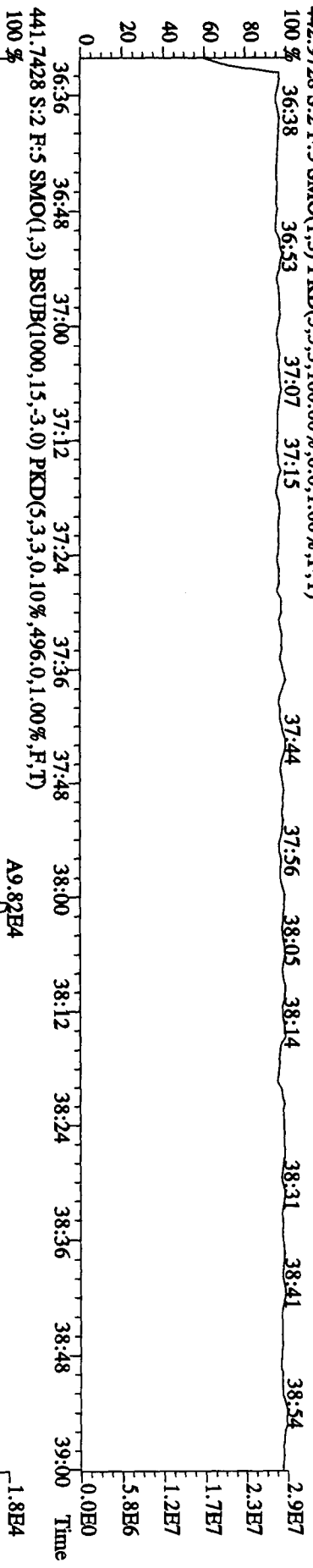
File:01MYY104D5 #1-316 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:CP0501 :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A



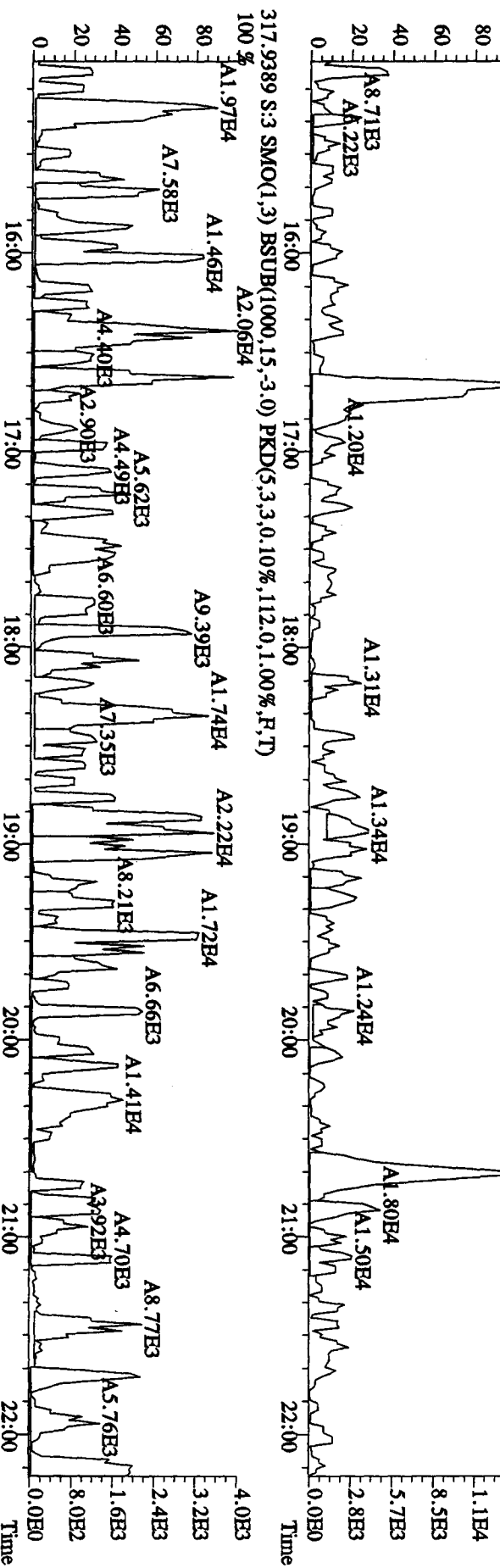
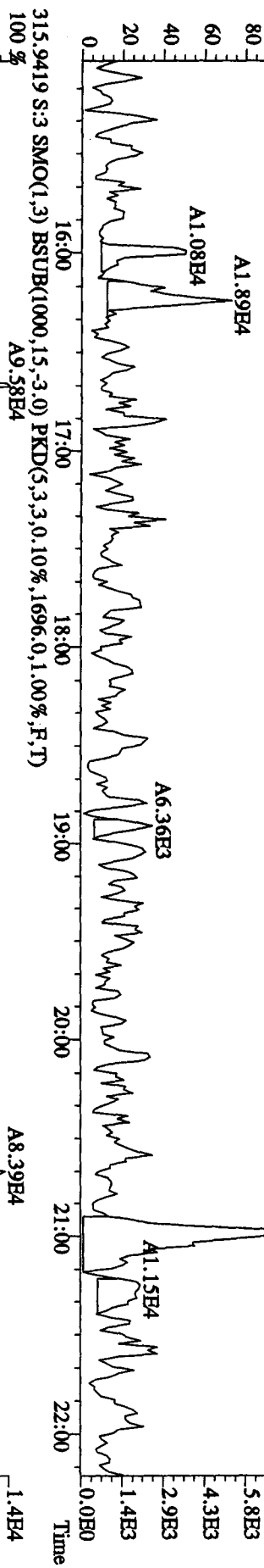
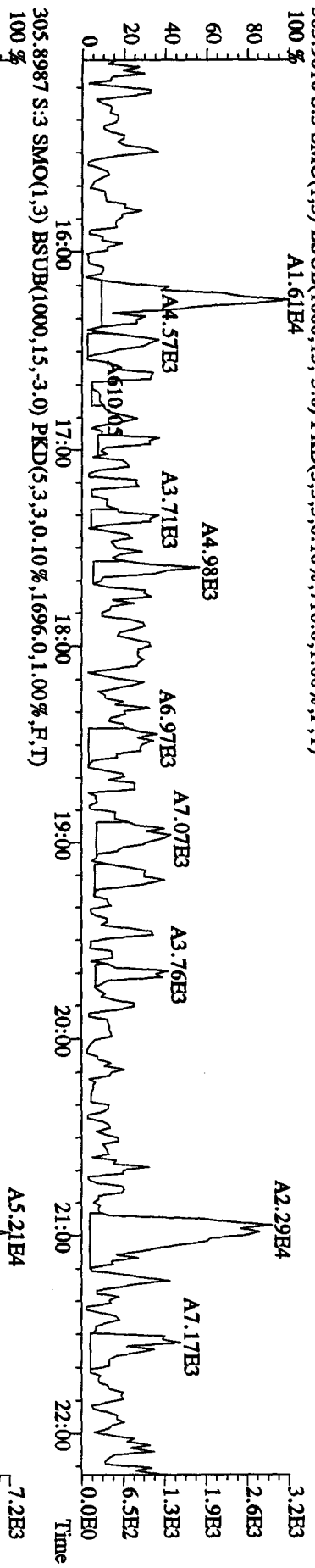
File:01MY104D5 #1-198 Acq: 1-MAY-2010 09:32:20 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:CP0501 :DB-5 CP5M 3732-05 Exp:DI0XINRES8290A
 430.9728 S:2 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 34:09 34:21 34:32 34:44 35:02 35:11 35:20 35:31 35:38 35:48 36:00 36:12 36:27 3.3E7



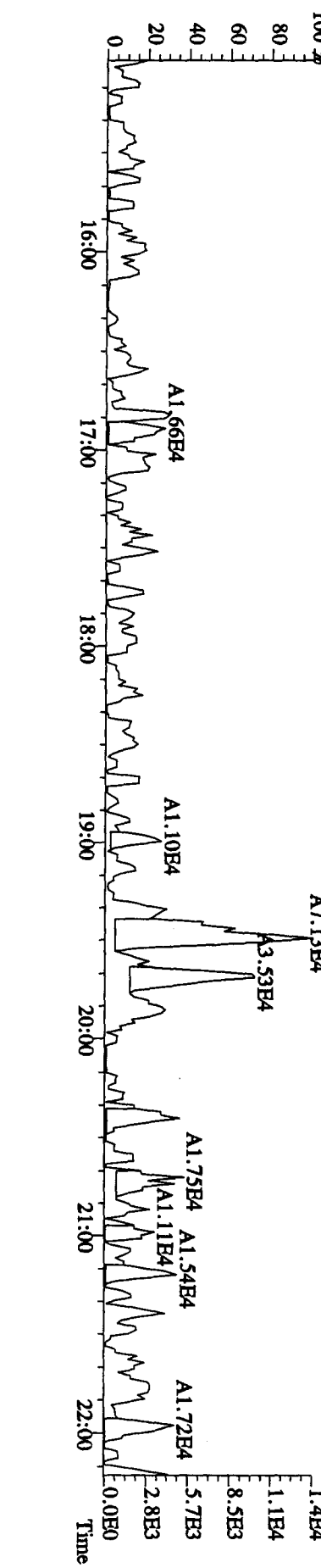
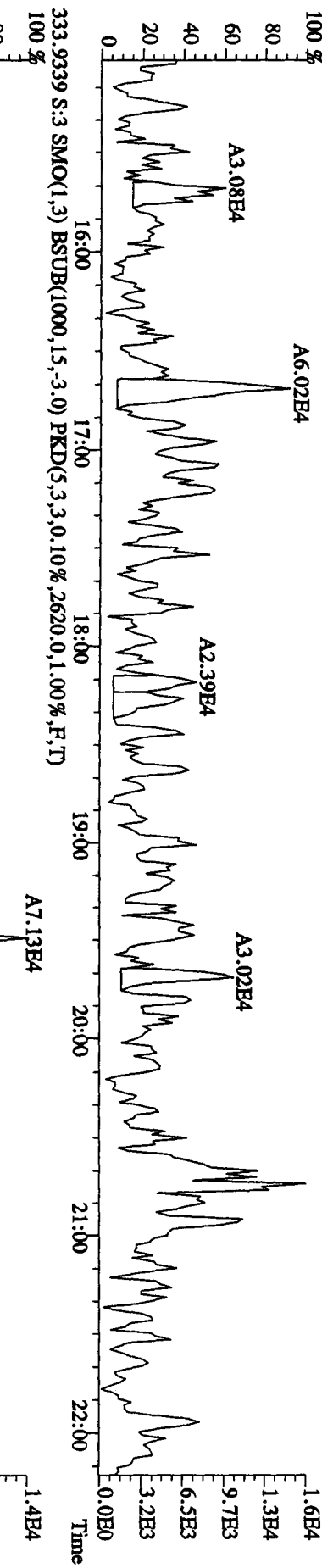
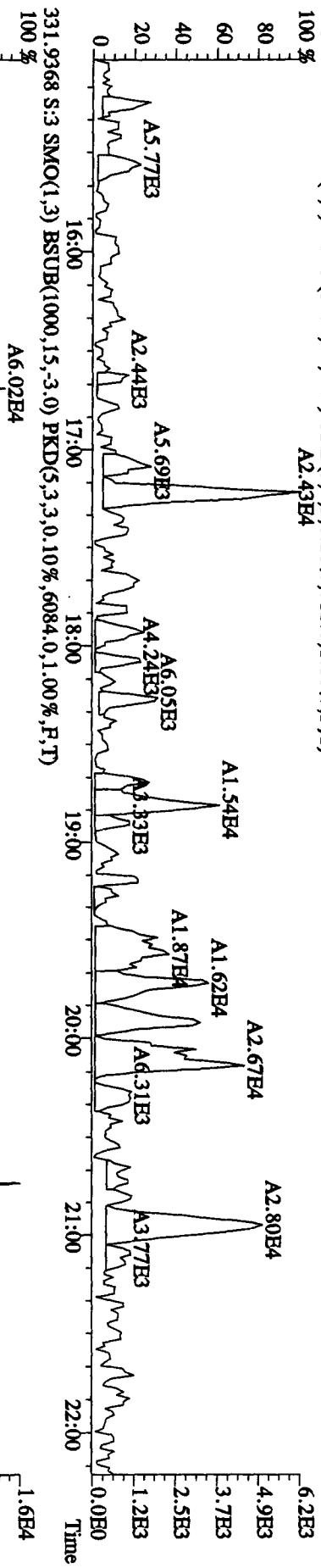
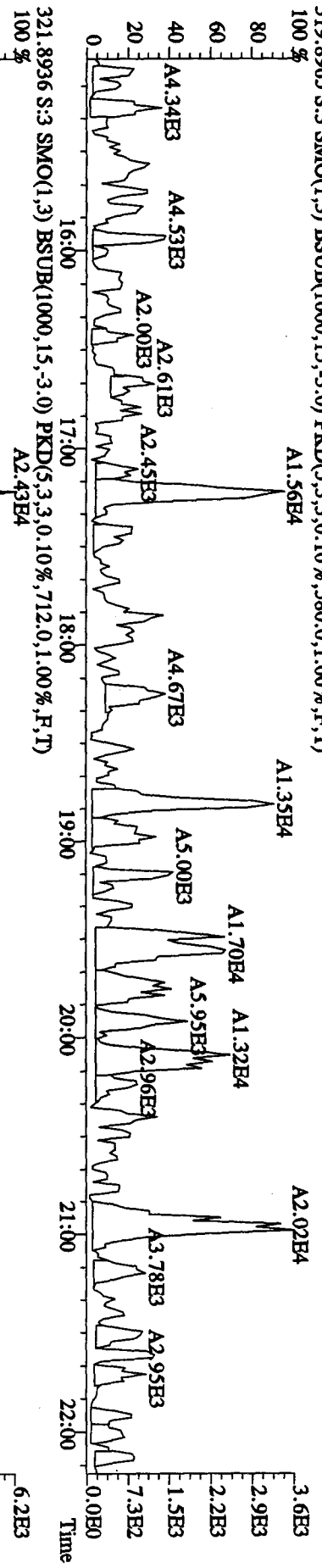
File:01MAY104D5 #1-190 Acq: 1-MAY-2010 09:32:20 GC HI + Voltage SIR Autospec-UltimaB
 Sample#2 Text:CP0501 :DB-5 CP5M 3732-05 Exp:DIOXINRES8290A
 442.9728 S:2 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 36:38 36:53 37:07 37:15 37:44 37:56 38:05 38:14 38:31 38:41 38:54



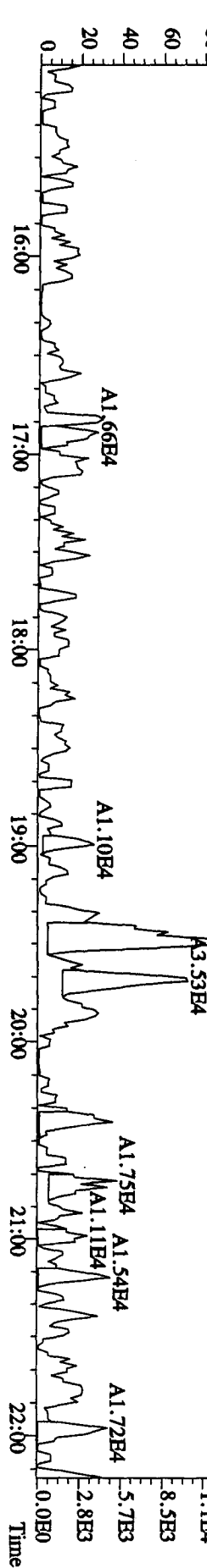
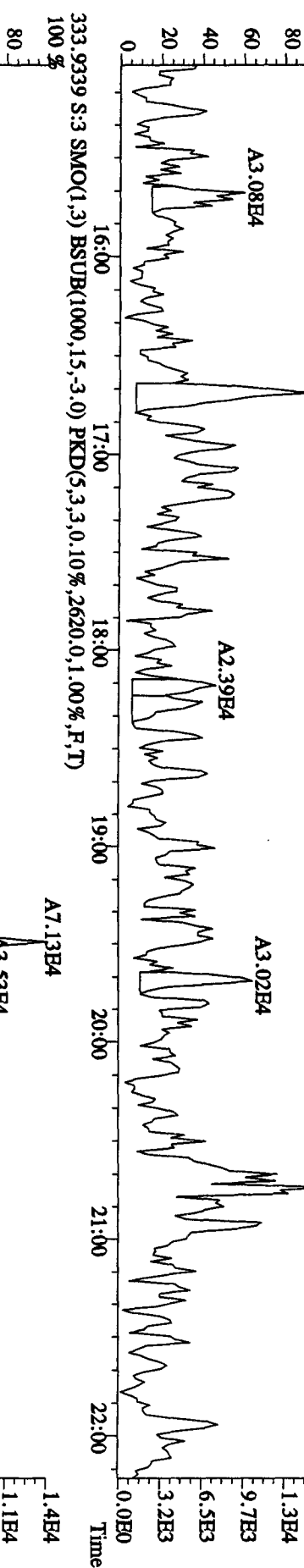
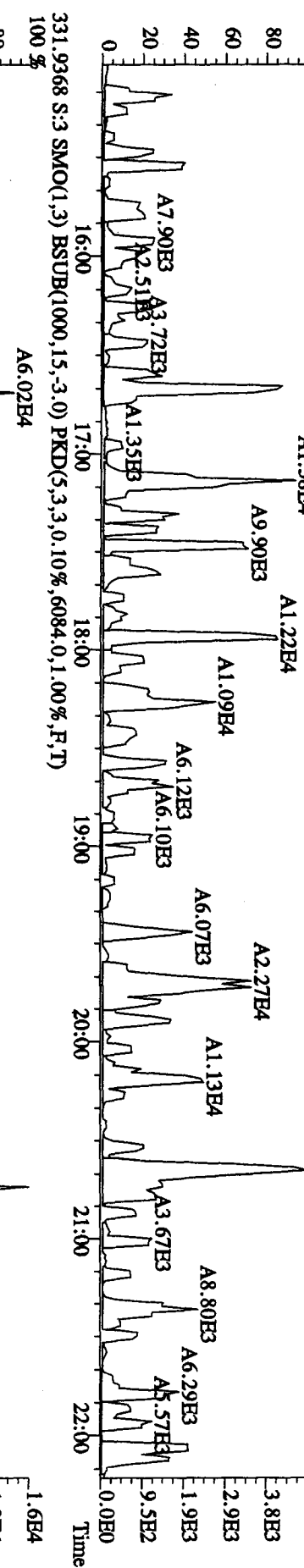
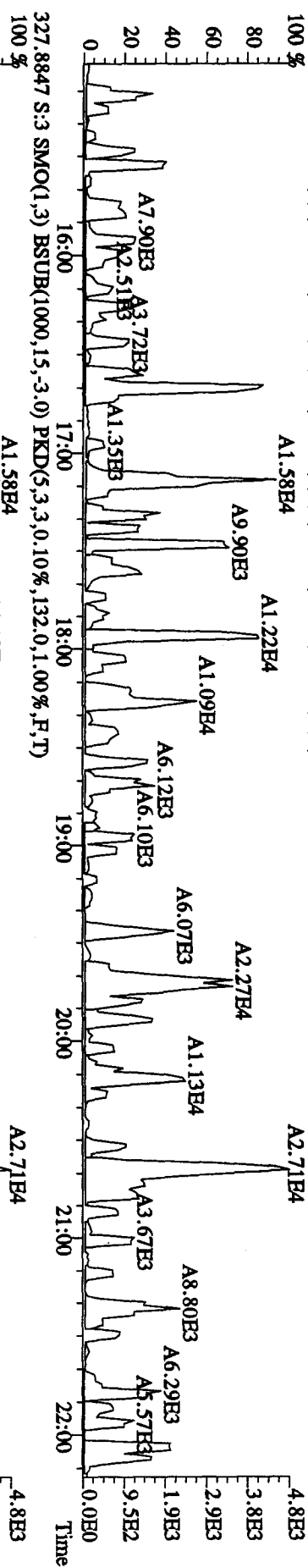
File:01MVT104D5 #1-434 Acq: 1-MAY-2010 10:16:22 GC EI + Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
 303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,716.0,1.00%,F,T)
 A1.61E4



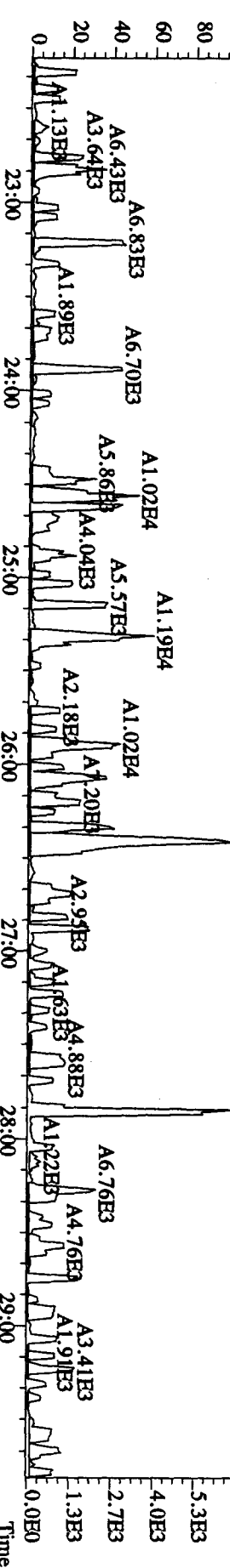
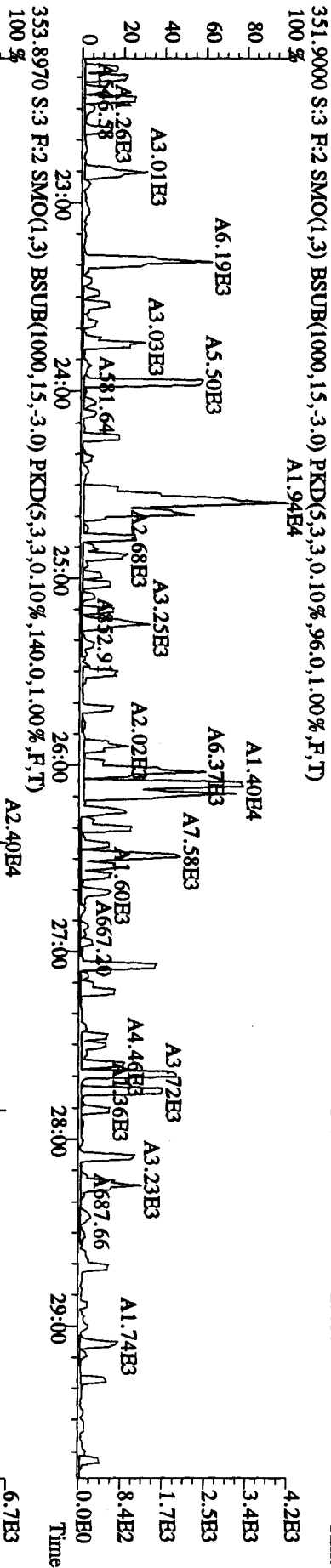
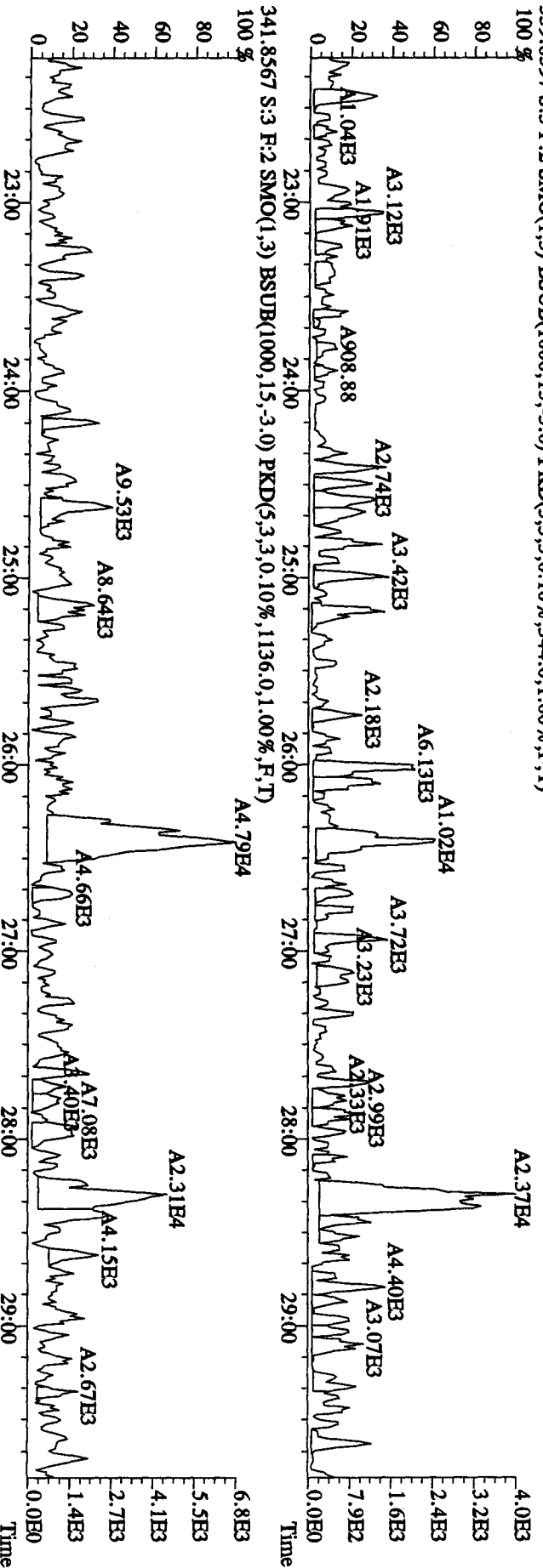
File:01MAY104D5 #1-434 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.580,0,1.00%,F,T)
 100 %



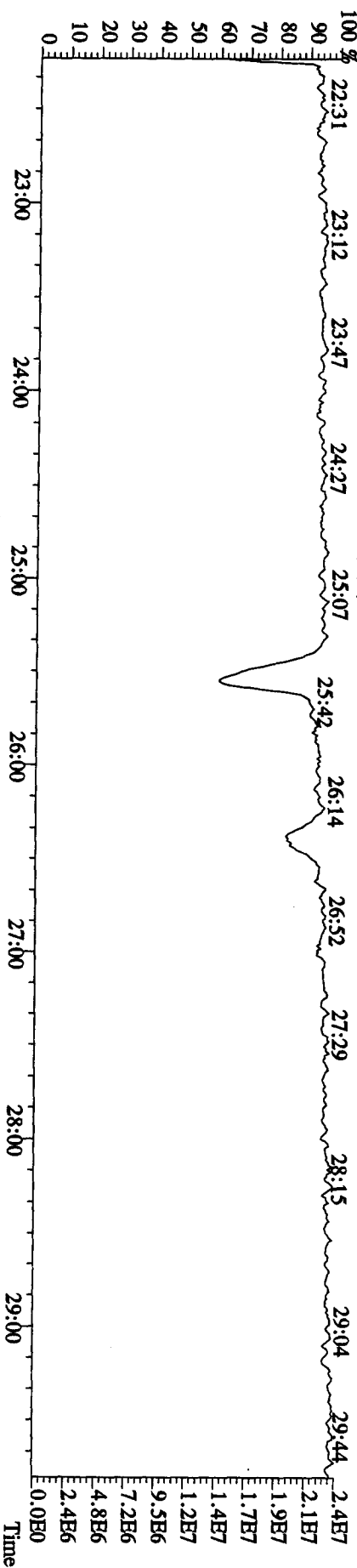
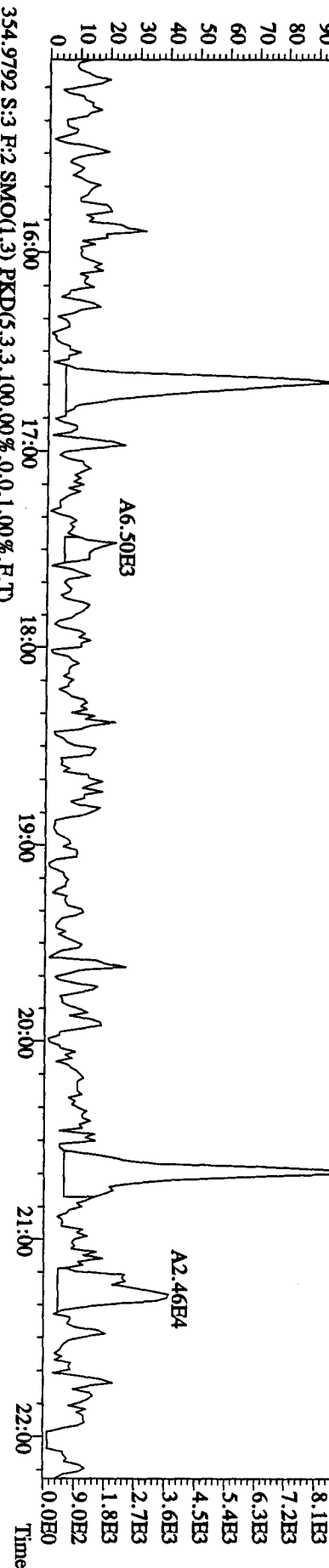
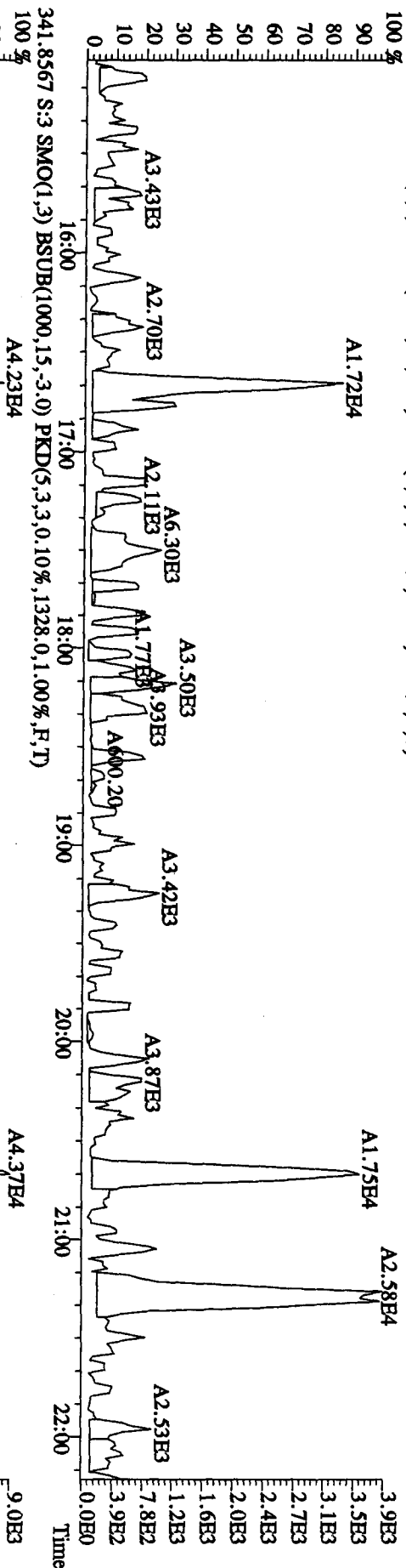
File:01MAY104D5 #1-434 Acq: 1-MAY-2010 10:16:22 GC HI + Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,132.0,1.00%,F,T)



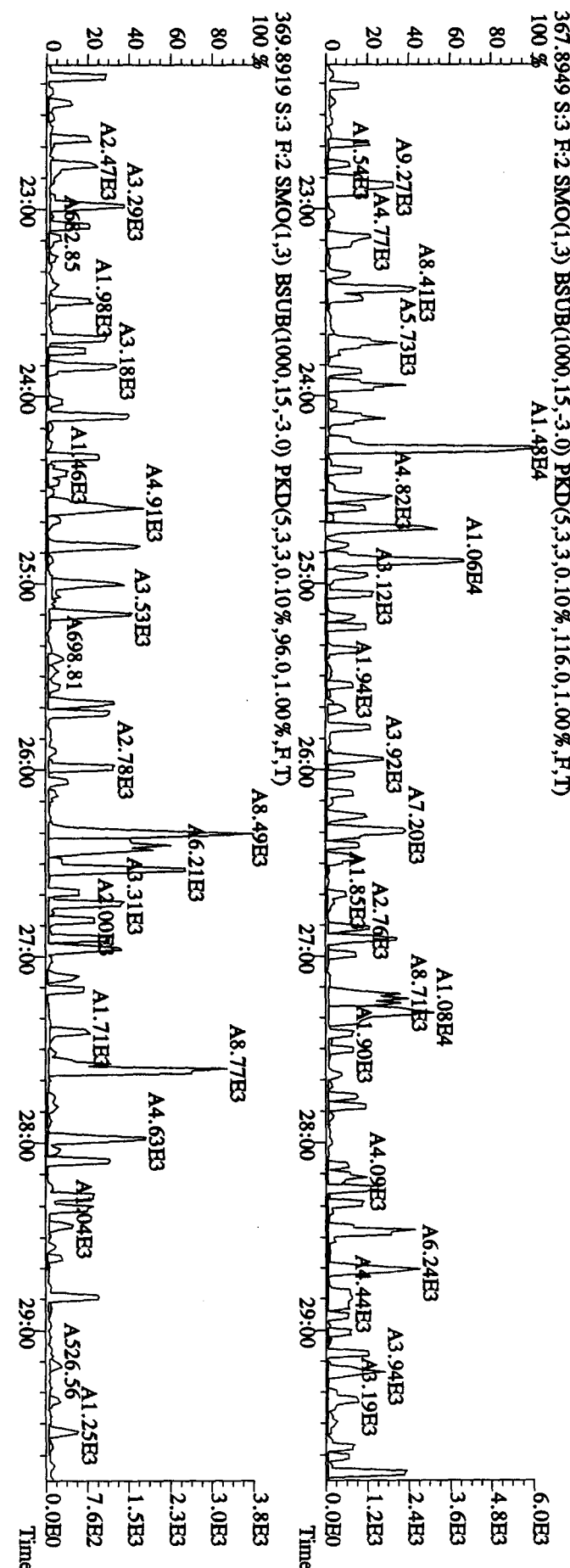
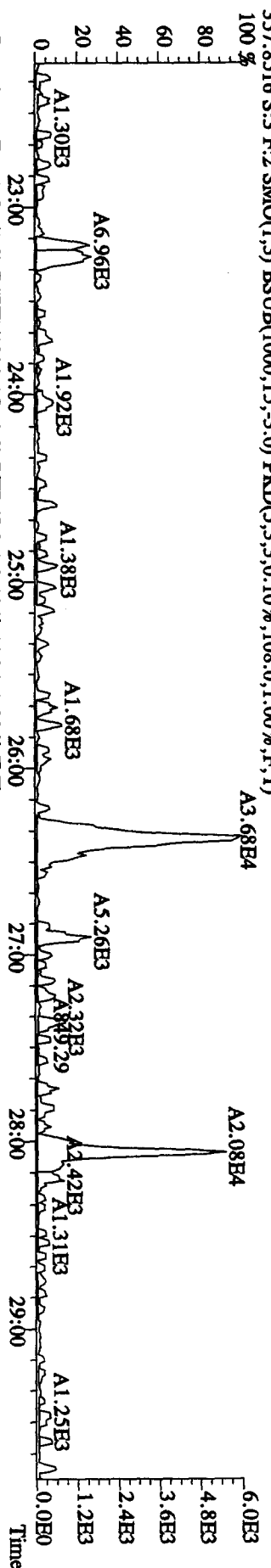
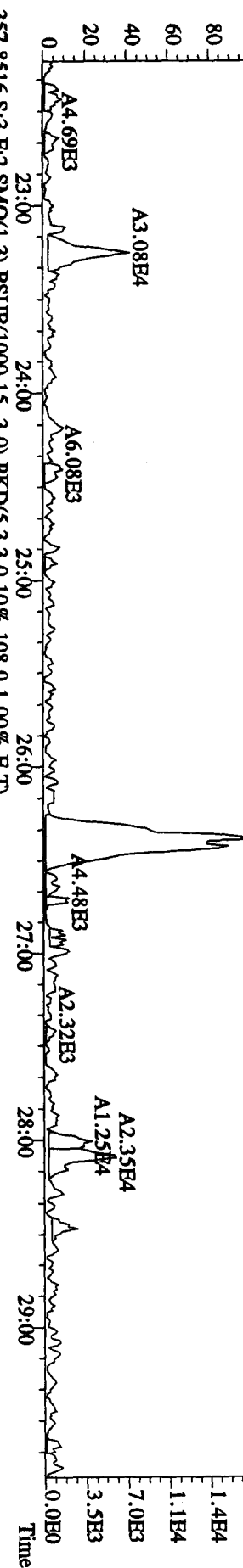
File:01MAY104D5 #1-604 Acq: 1-MAY-2010 10:16:22 GC HI + Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
 339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,344.0,1.00%,F,T)



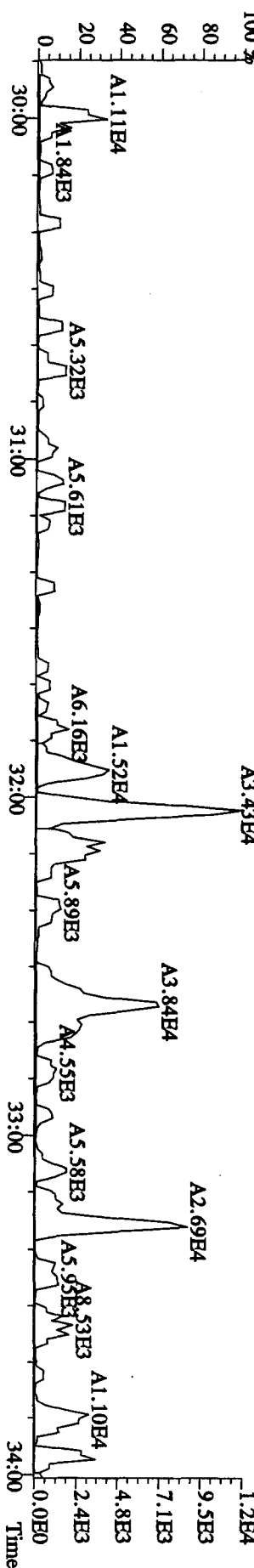
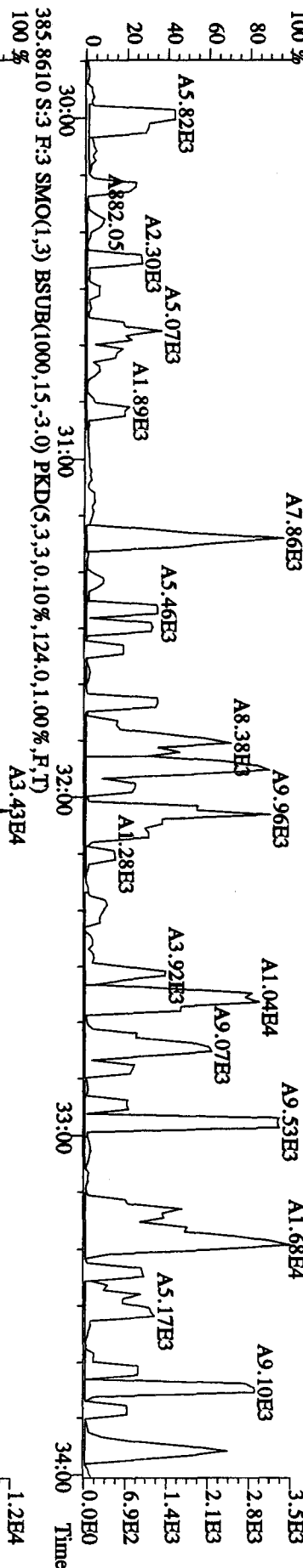
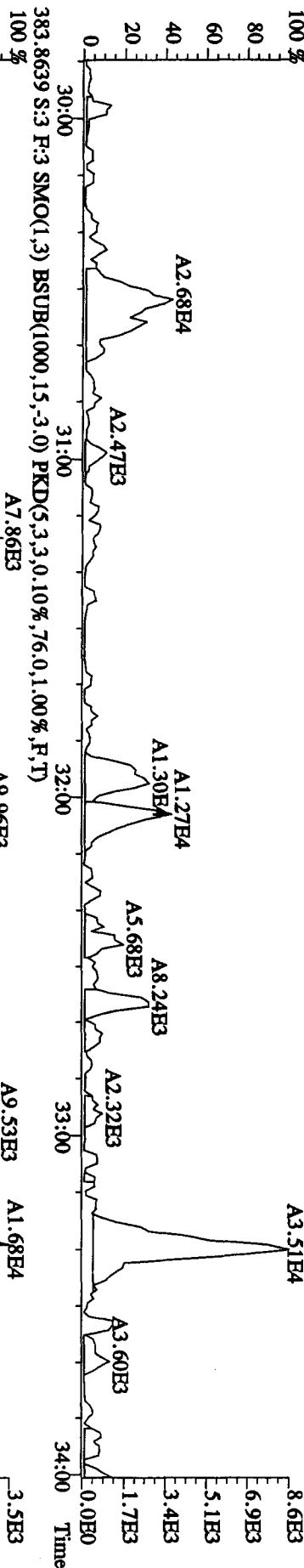
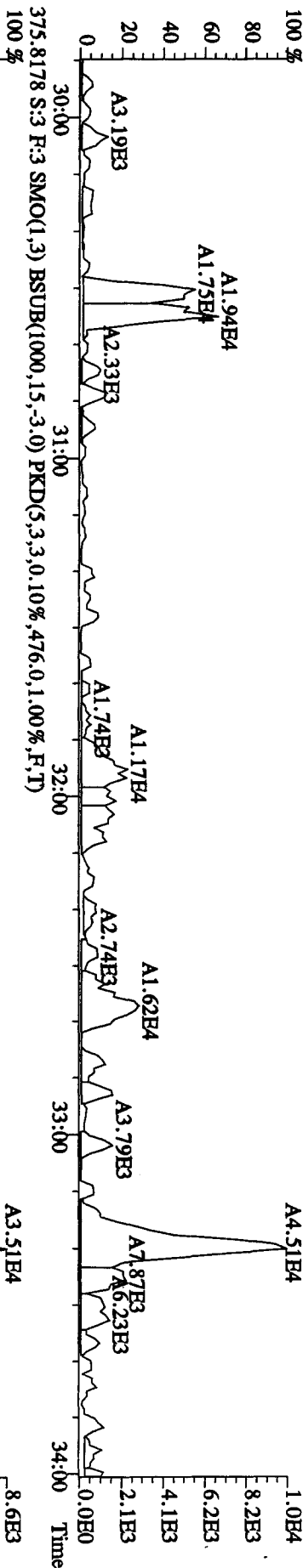
File:01MY104D5 #1-434 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
 339.8597 S:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,432.0,1.00%,F,T)



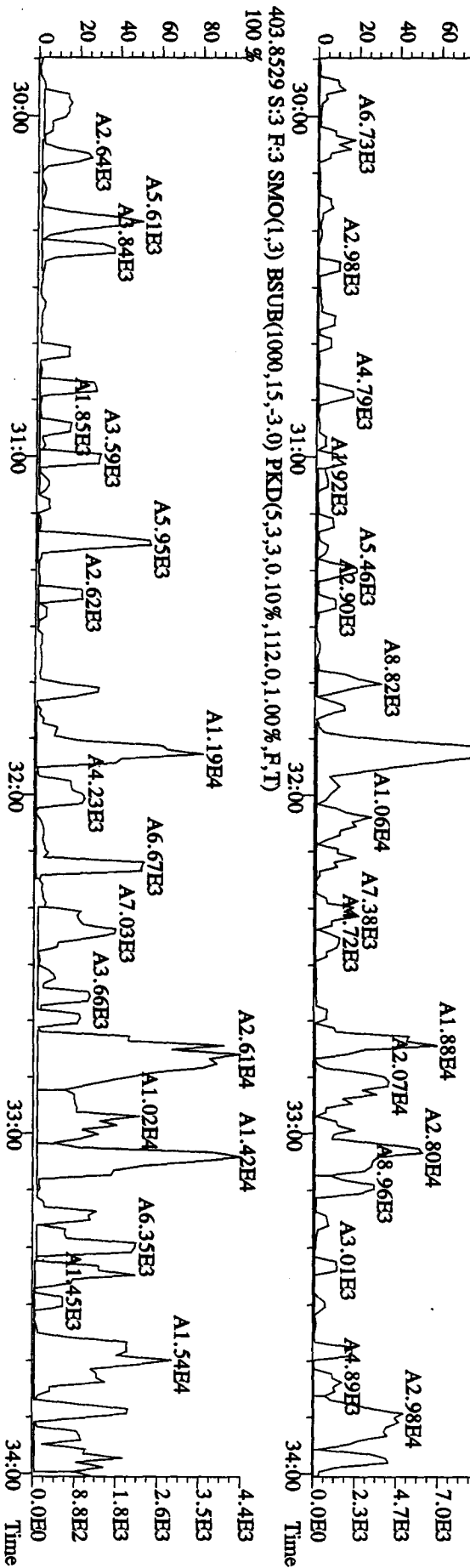
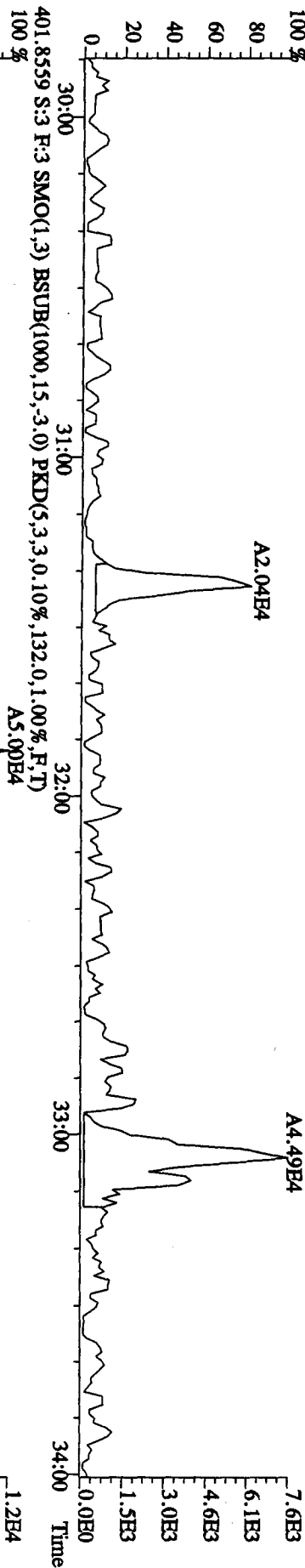
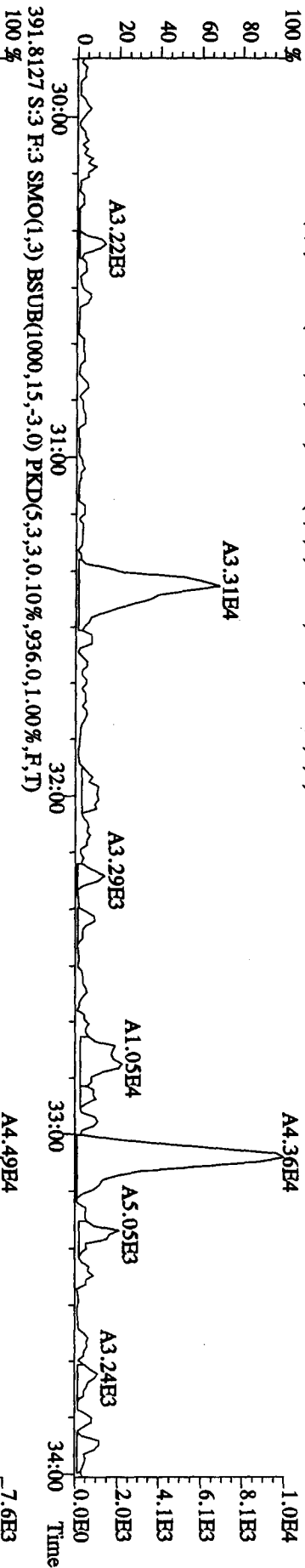
File:01MAY104D5 #1-604 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
 357.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,.864,0.1,1.00%,F,T) 100 %



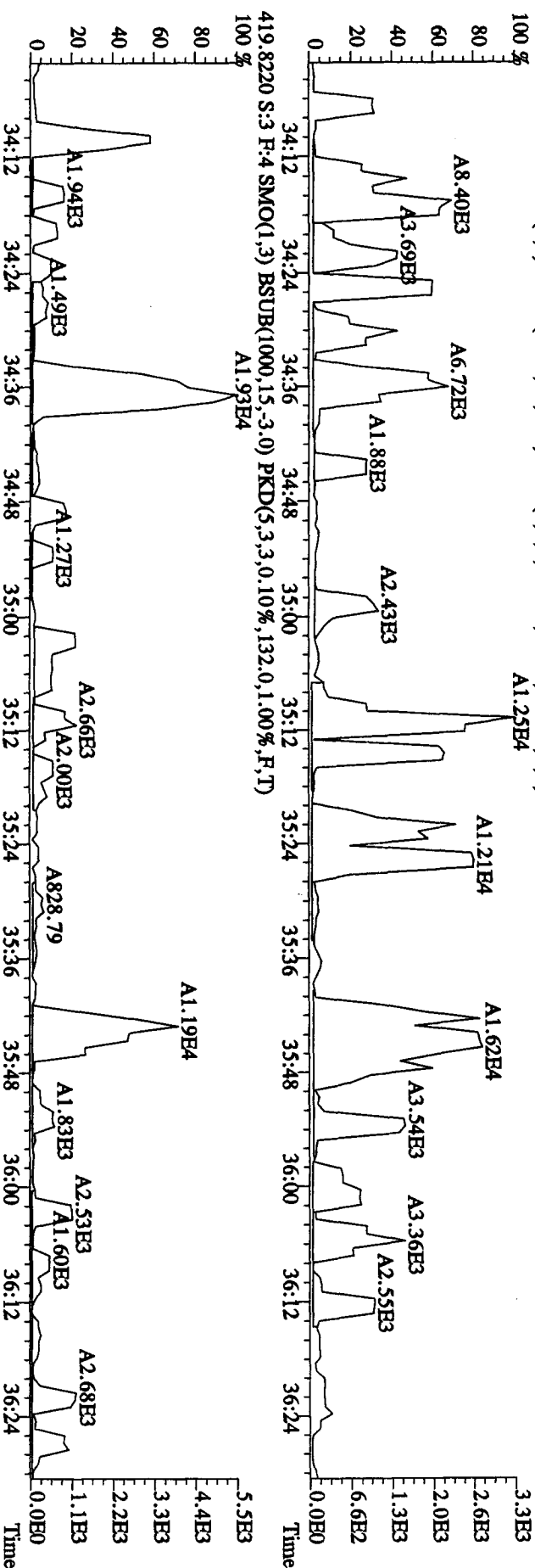
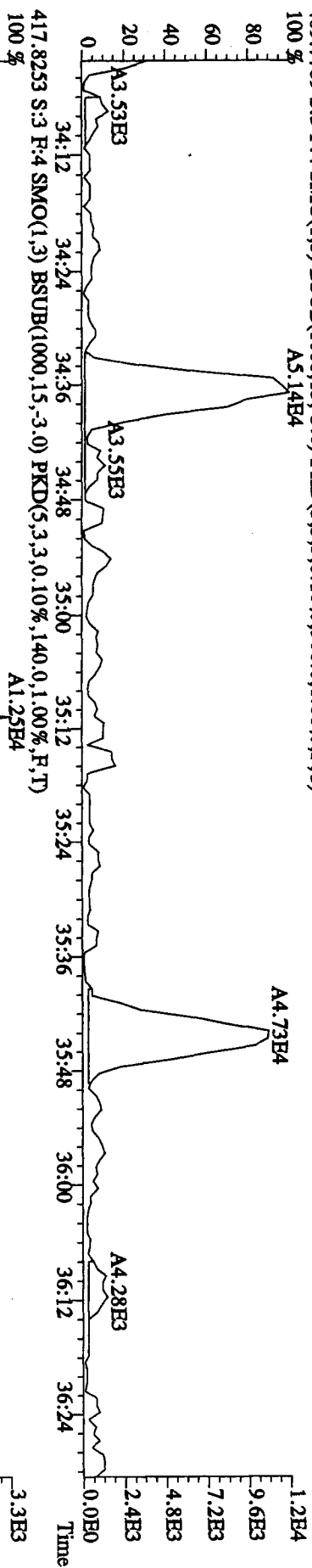
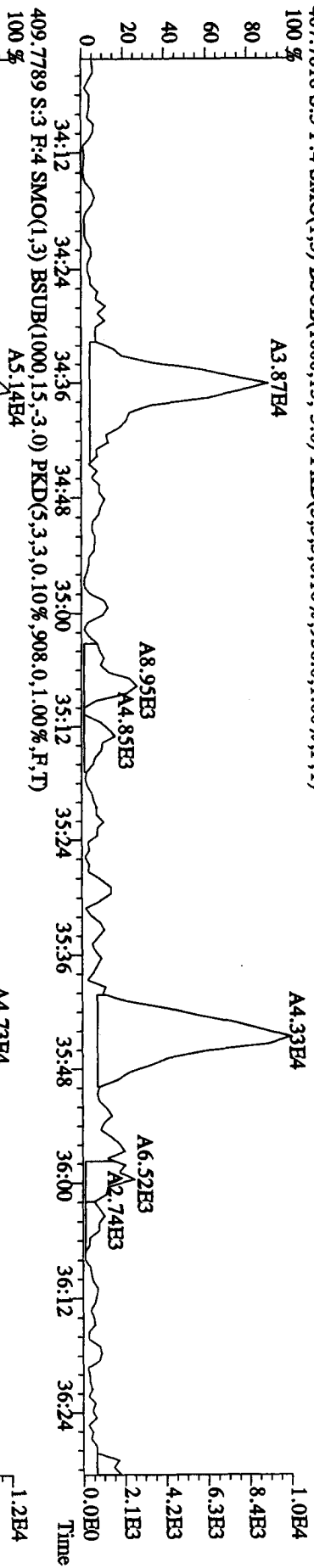
File:01MY104D5 #1-317 Acq: 1-MAY-2010 10:16:22 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,348,0,1,00%,F,T)



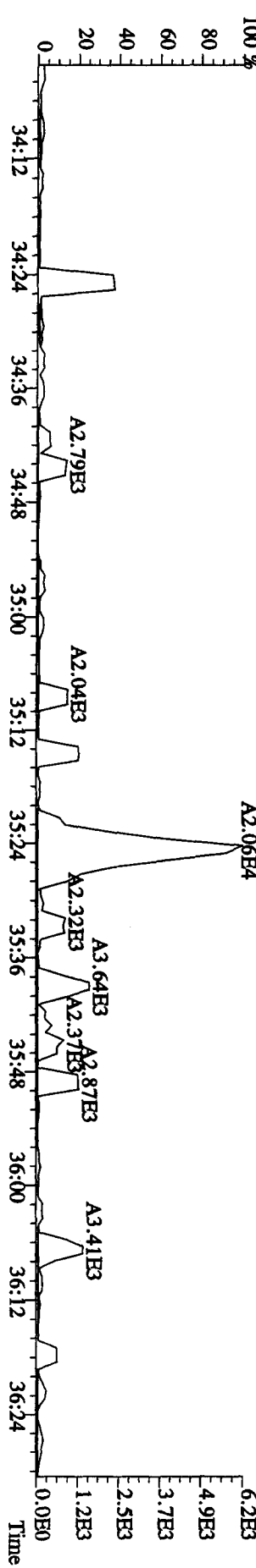
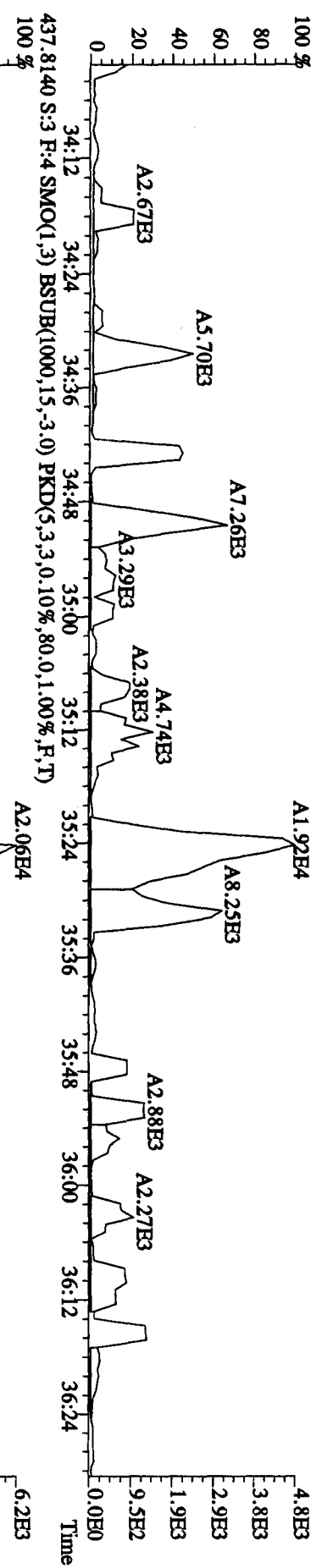
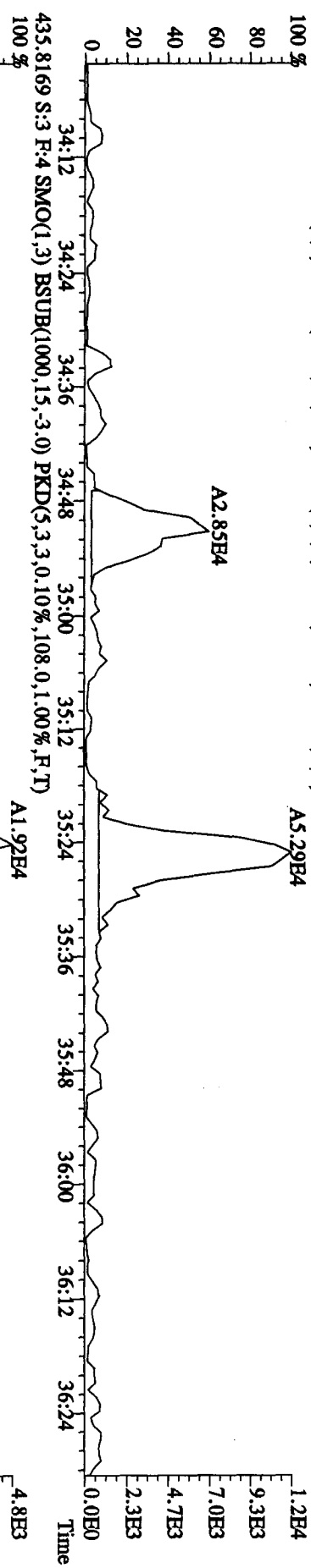
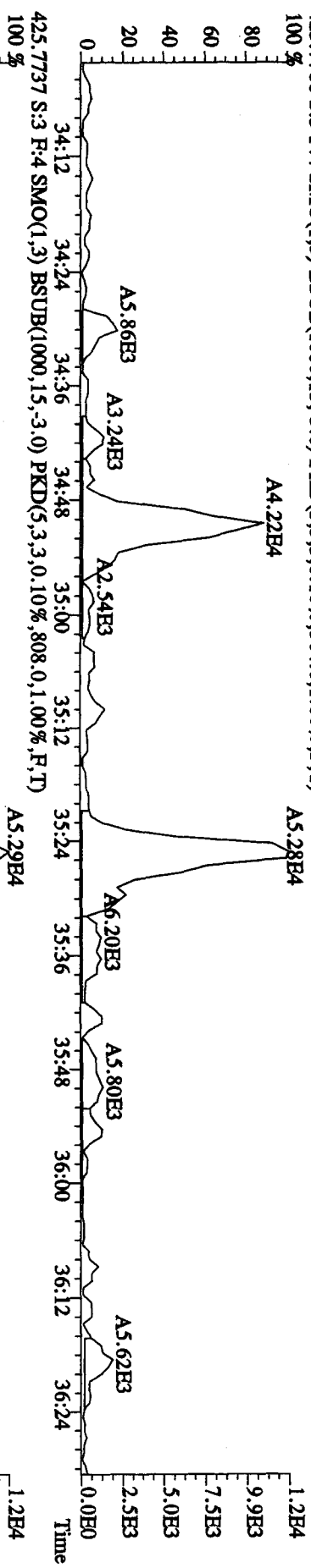
File:01MAY104D5 #1-317 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp.:DIOXINRES8290A
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,600.0,1.00%,F,T)



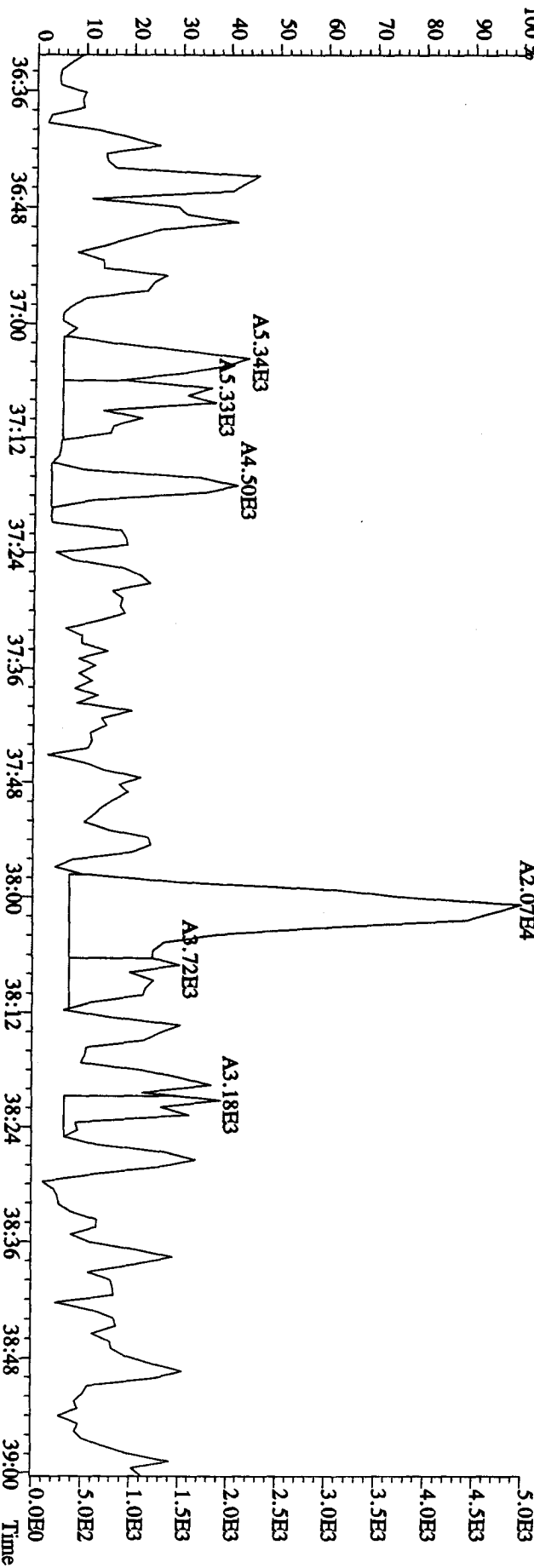
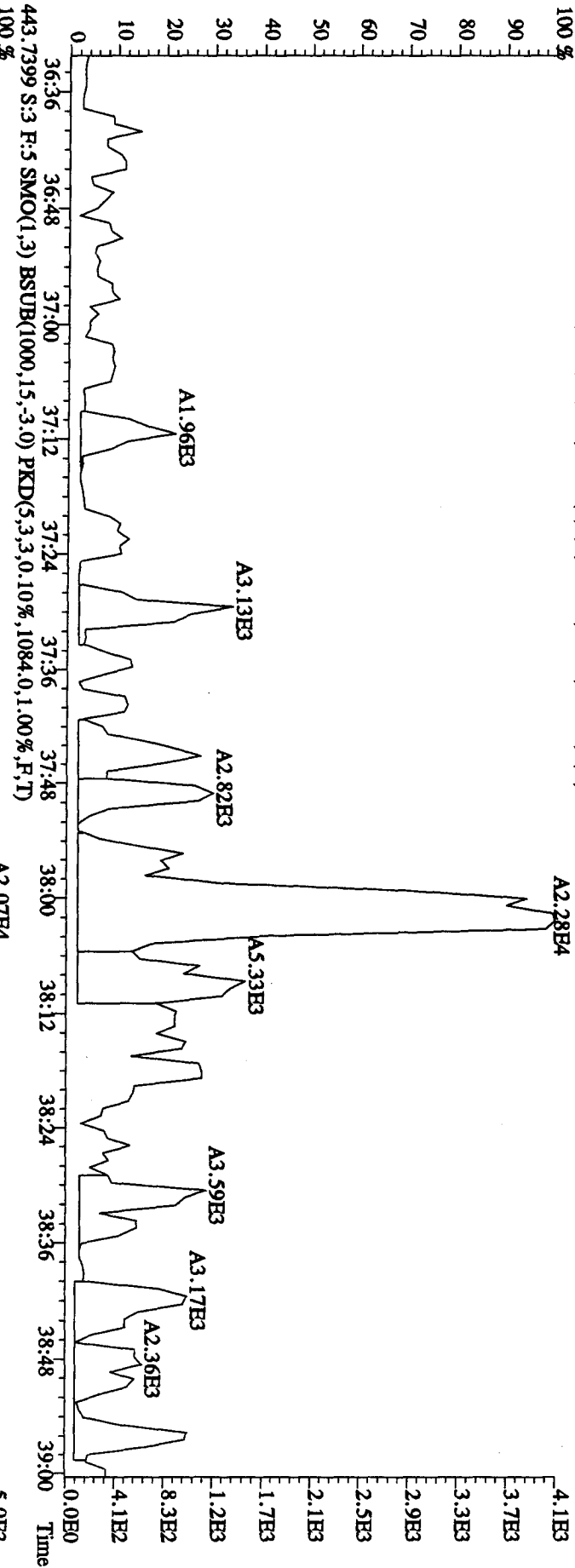
File:01MAY104D5 #1-198 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaB
Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,956.0,1.00%,F,T)



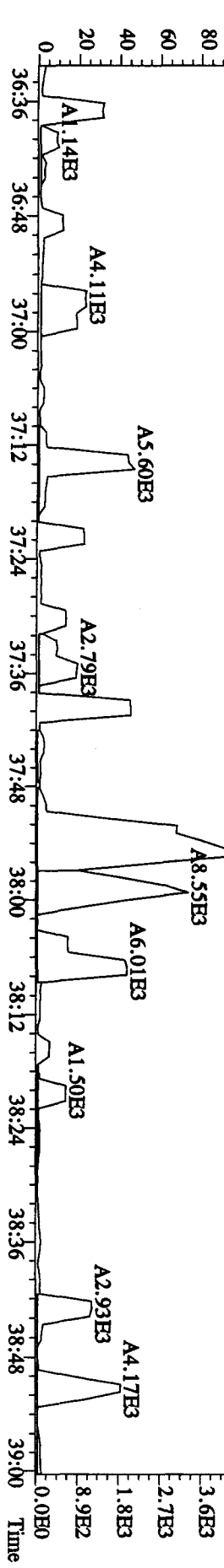
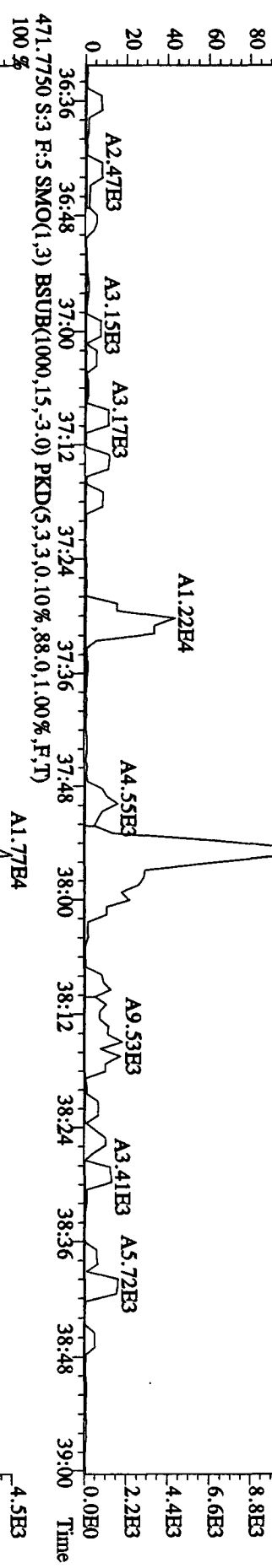
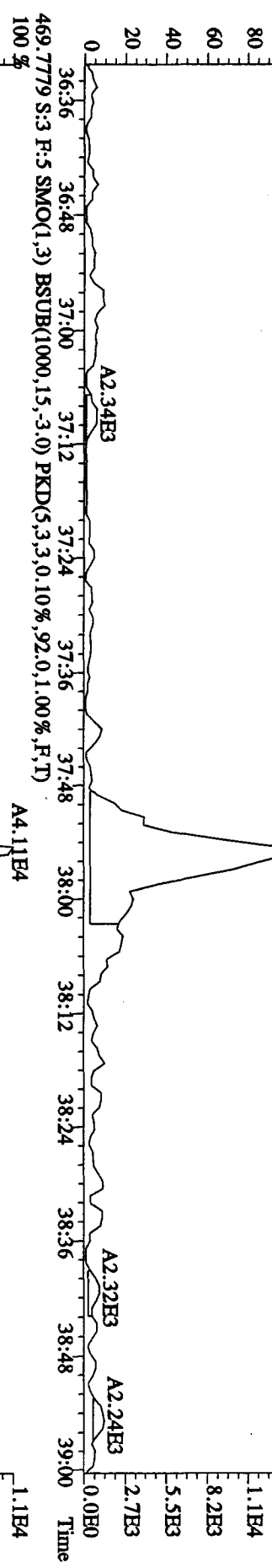
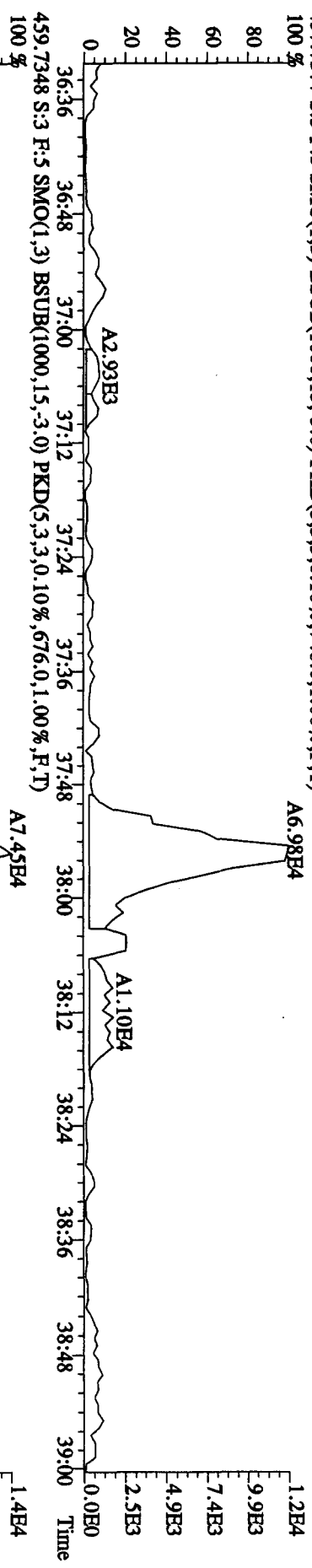
File:01MAY10AD5 #1-198 Acq: 1-MAY-2010 10:16:22 GC EI + Voltage SIR Autospec-Ultimate
Sample#3 Text:SB0501 :Solvent Blank C-14 Exp.:DIOXINRES8290A
423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,564.0,1.00%,F,T)



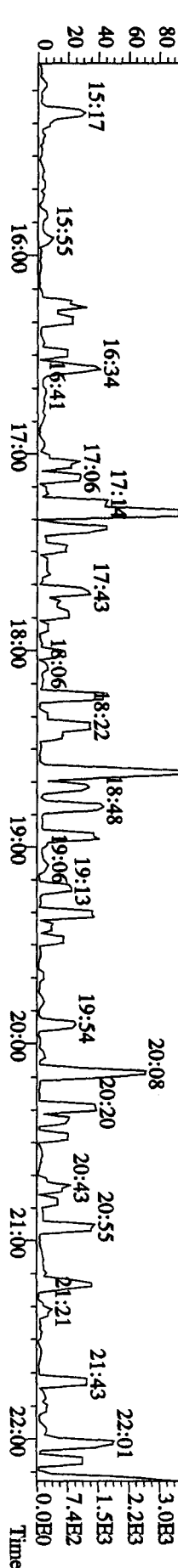
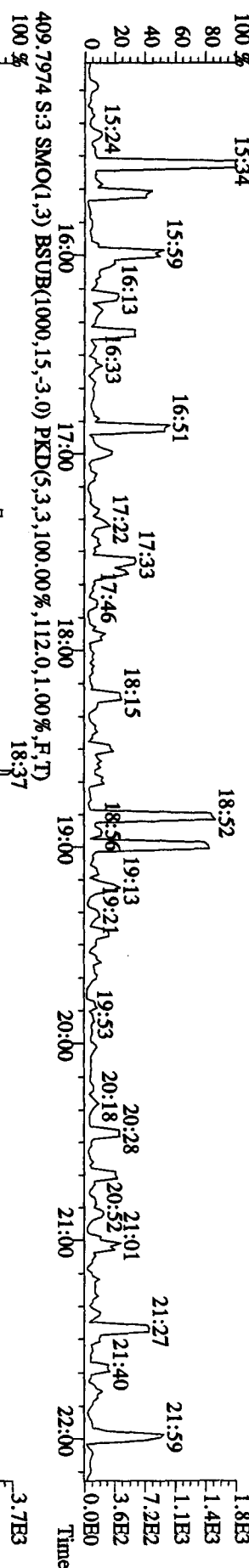
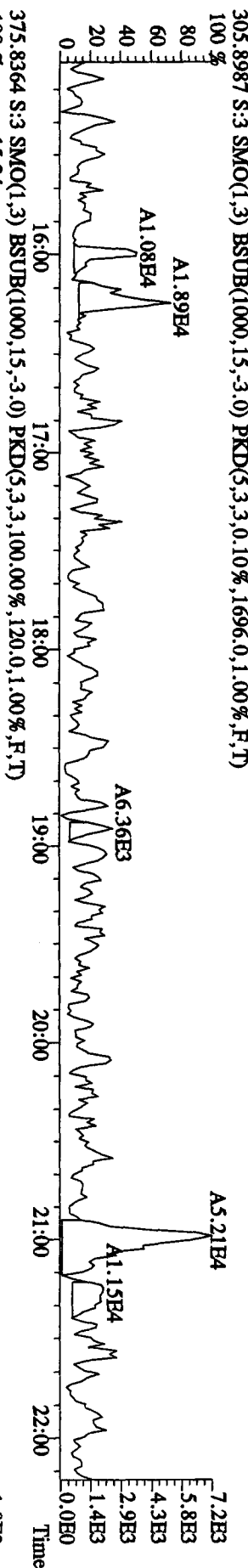
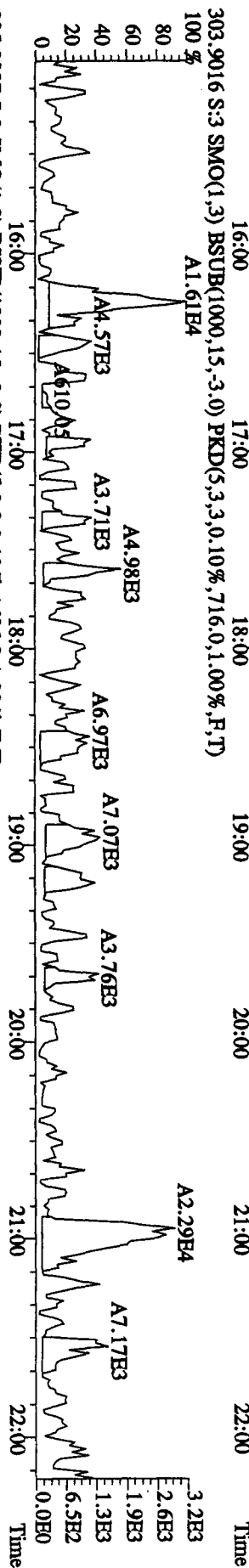
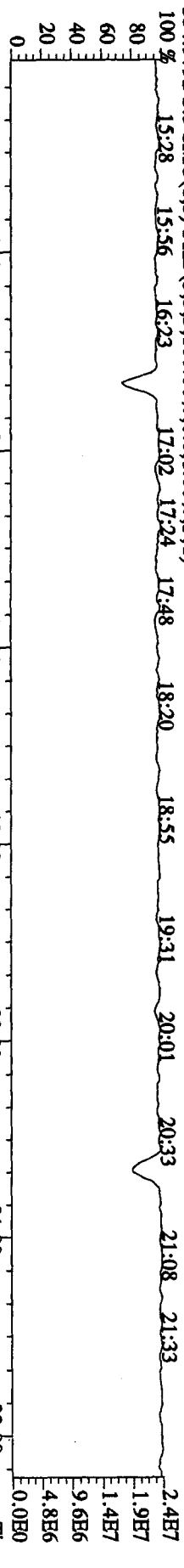
File: 01MAY104D5 #1-190 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text: SB0501 : Solvent Blank C-14 Exp: DIOXINRES8290A
 441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,0,10%,400,0,1,00%,F,T)

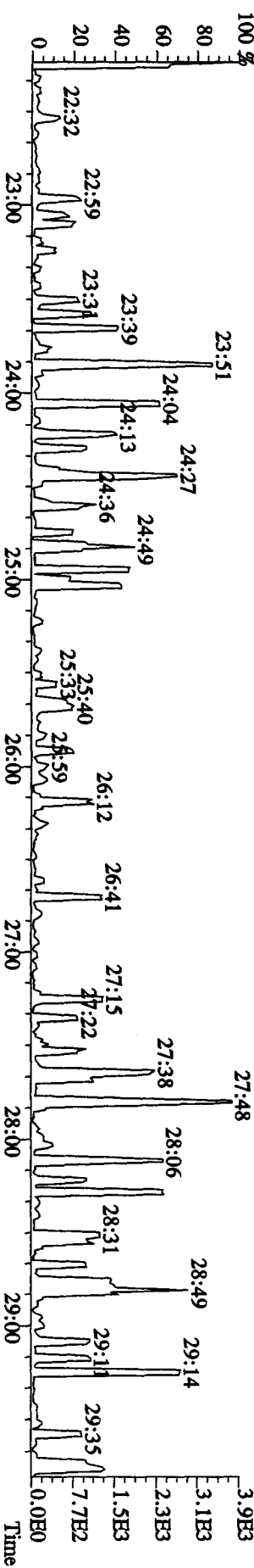
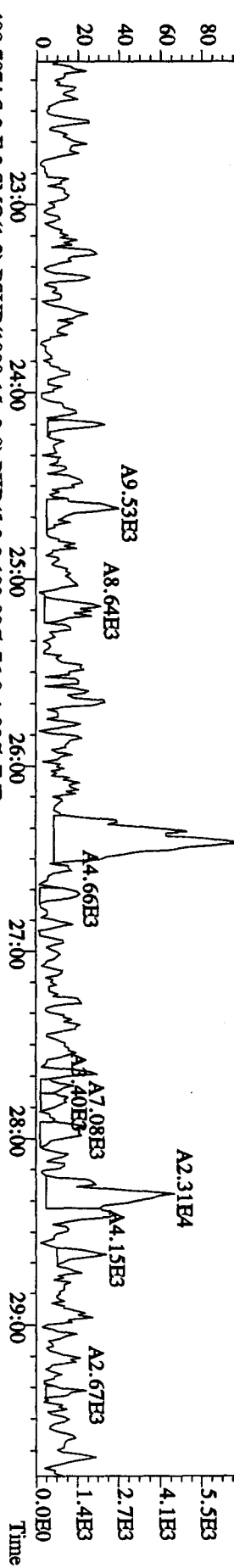
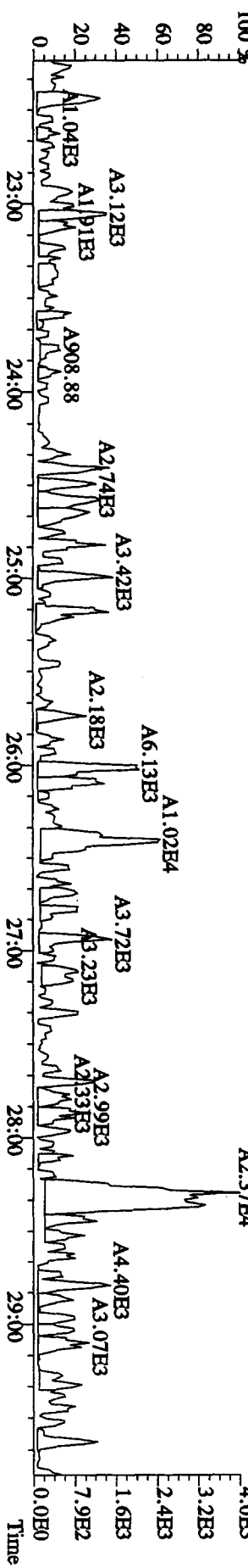
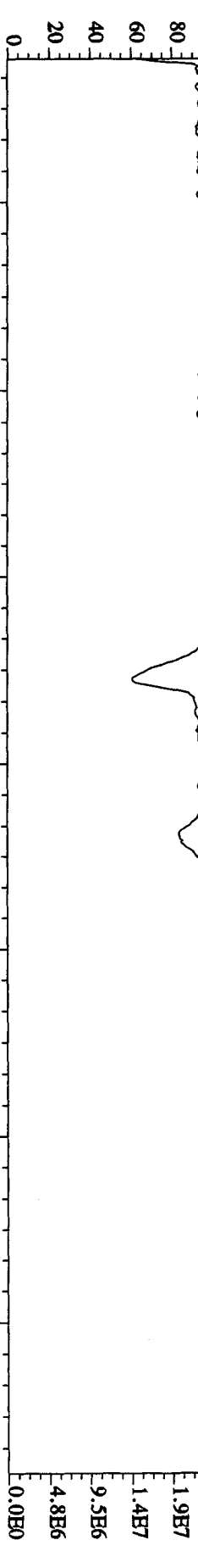


File:01MY104D5 #1-190 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
 457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,748.0,1.00%,F,T)

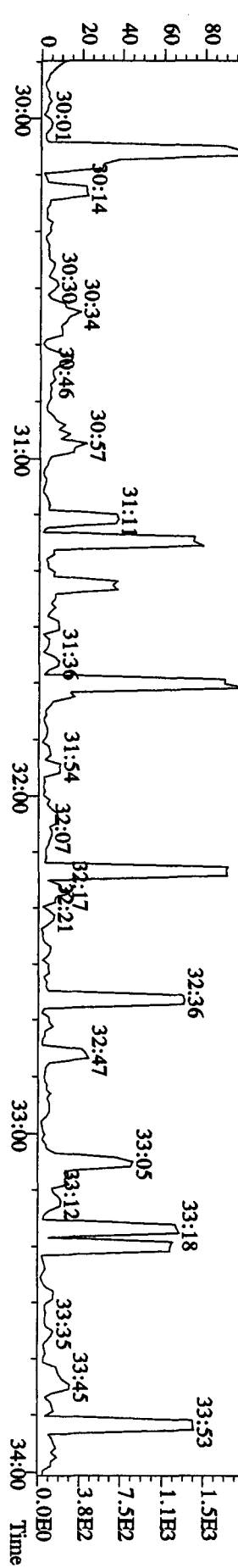
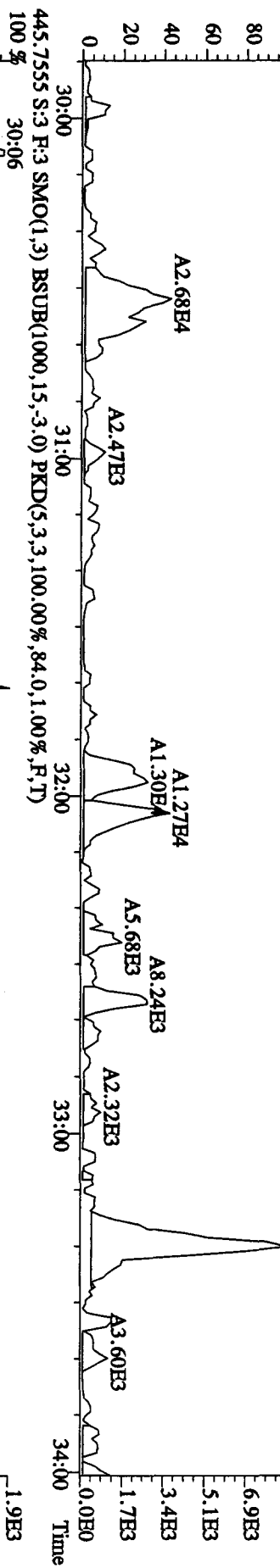
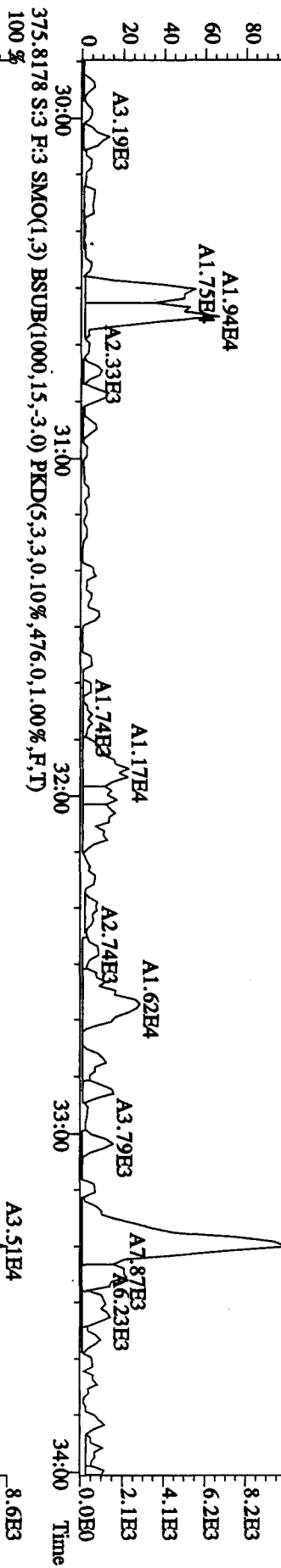
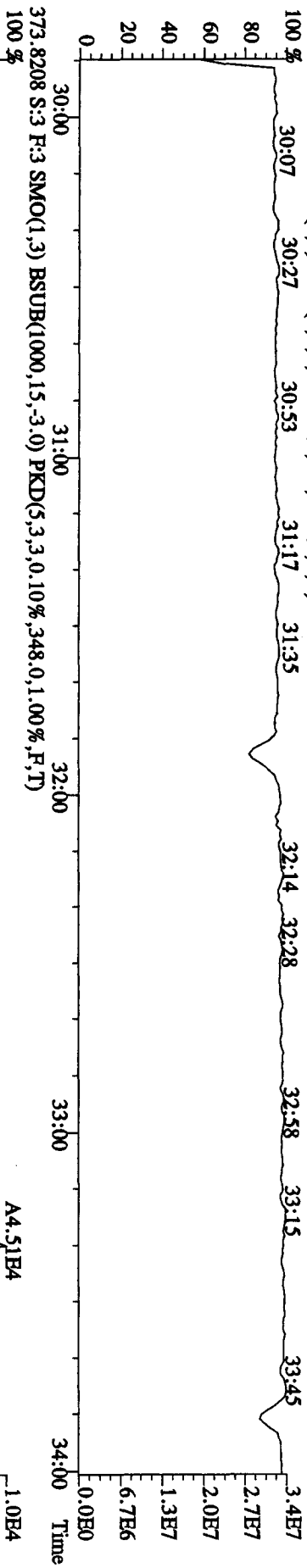


File:01MY104D5 #1-434 Acq: 1-MAY-2010 10:16:22 GC HI + Voltage SIR Autospec-UltimaE
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A





File:01MY104D5 #1-317 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A
 430.9728 S:3 F:3 SMO(1,3) PKD(5,3,3,100.00%,0,0,1.00%,F,T)



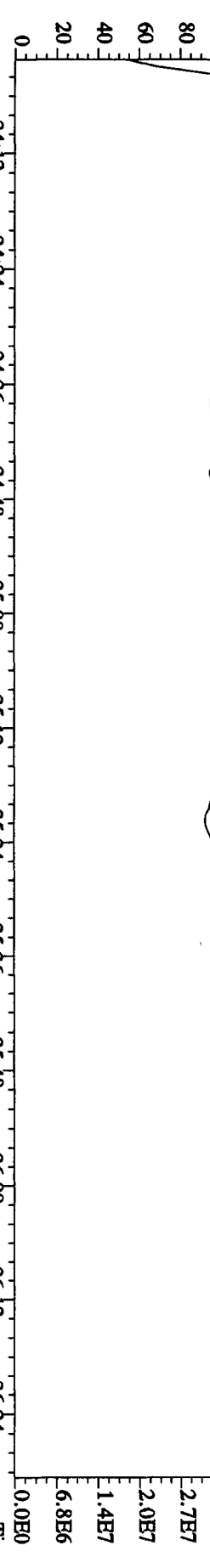
File:01MXY104D5 #1-198 Acq: 1-MAY-2010 10:16:22 GC EI+ Voltage SIR Autospec-UltimaB

Sample#3 Text:SB0501 :Solvent Blank C-14 Exp:DIOXINRES8290A

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

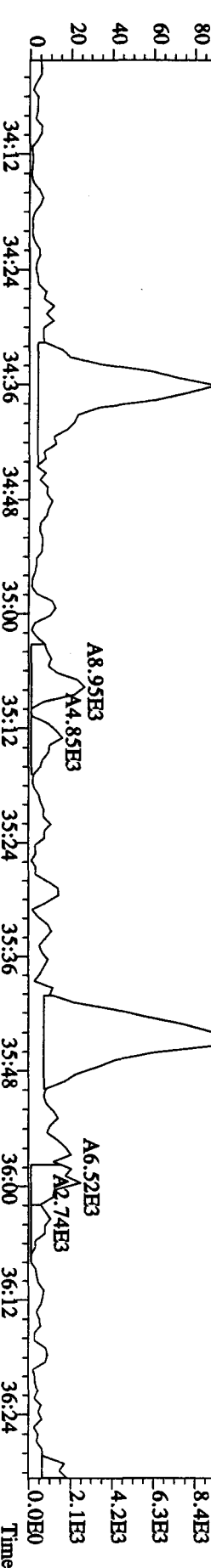
100 %34:06 34:19 34:32 34:41 35:06

35:31 35:42 35:50 36:01 36:17



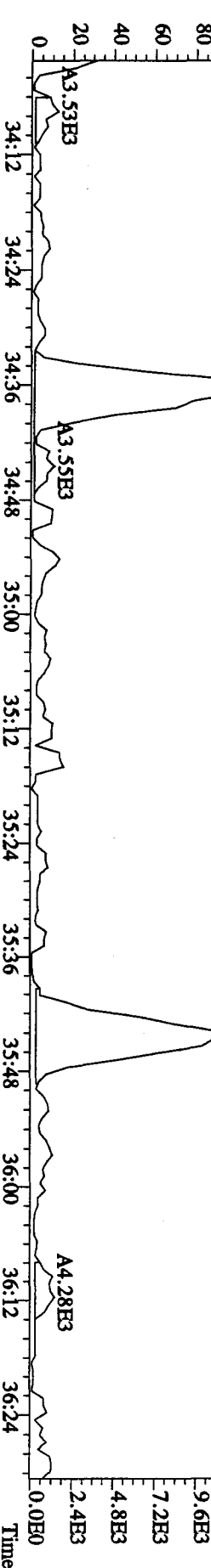
407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,956.0,1.00%,F,T)

100 % A3.87E4 1.0E4 8.4E3 6.3E3 4.2E3 2.1E3 0.0E0

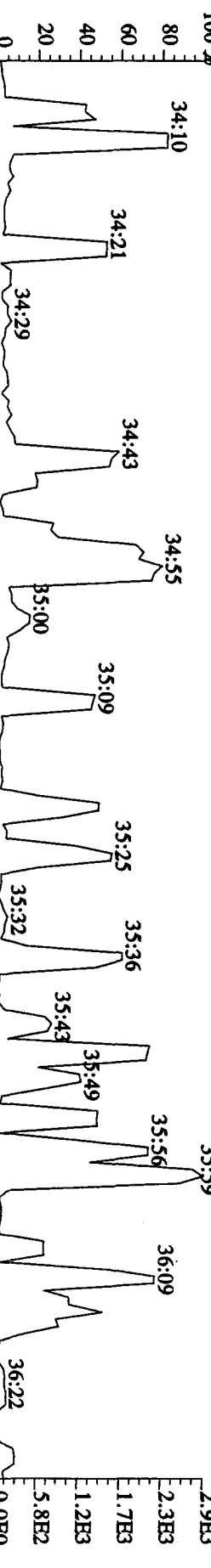


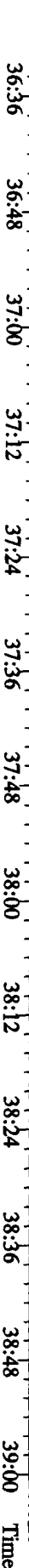
409.7789 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,908.0,1.00%,F,T)

100 % A5.14E4 1.2E4 9.6E3 7.2E3 4.8E3 2.4E3 0.0E0

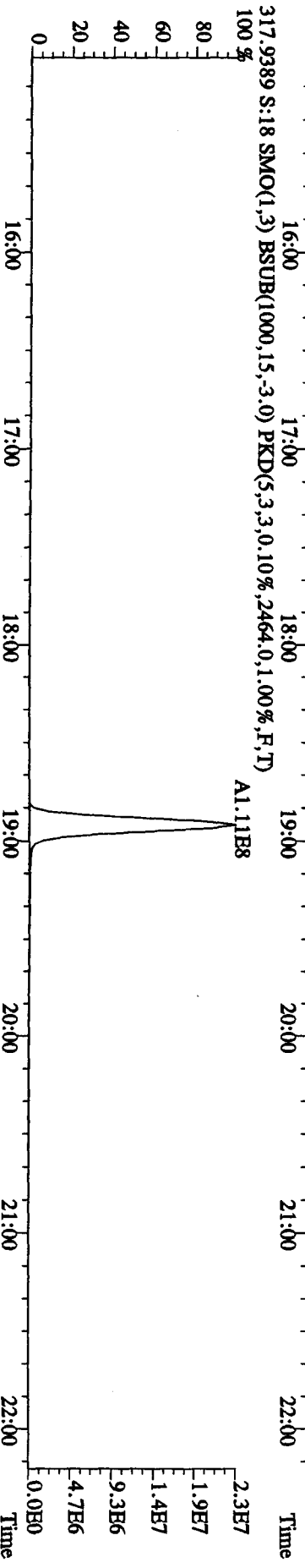
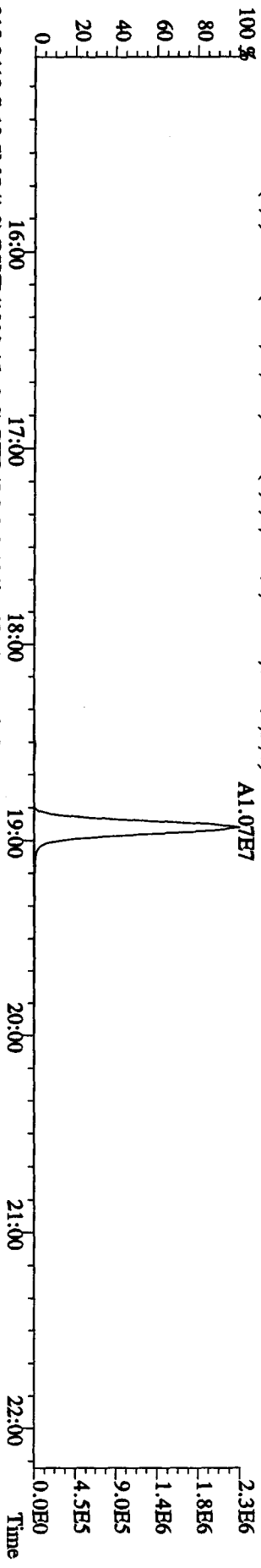
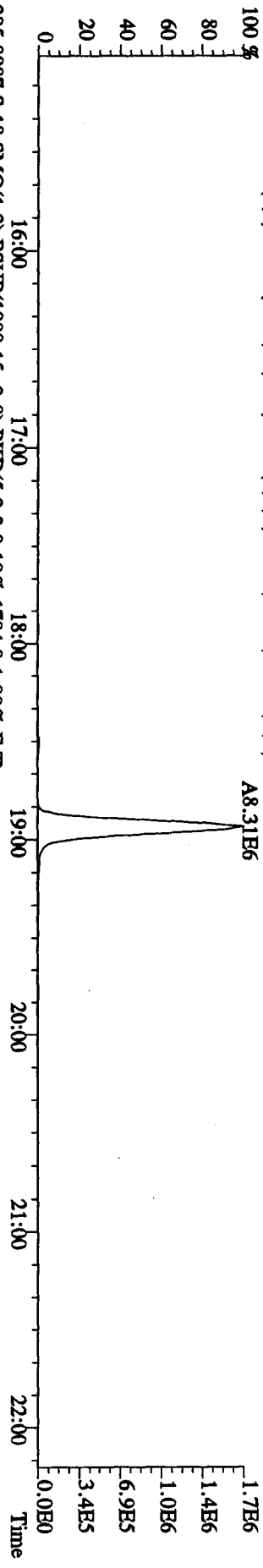


479.7165 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,172.0,1.00%,F,T)

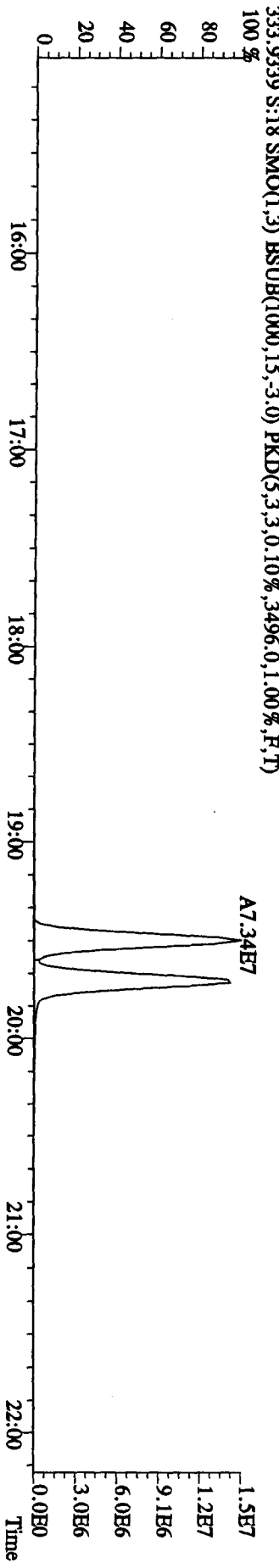
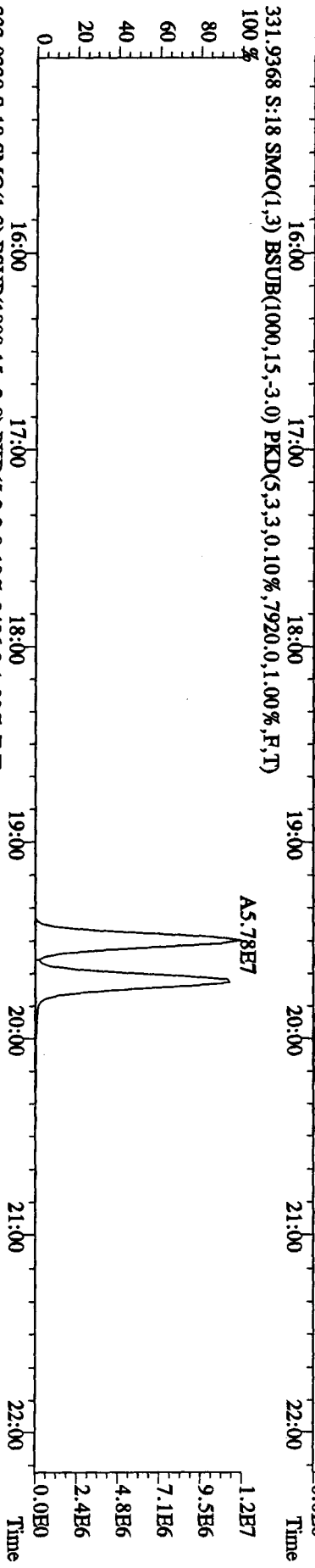
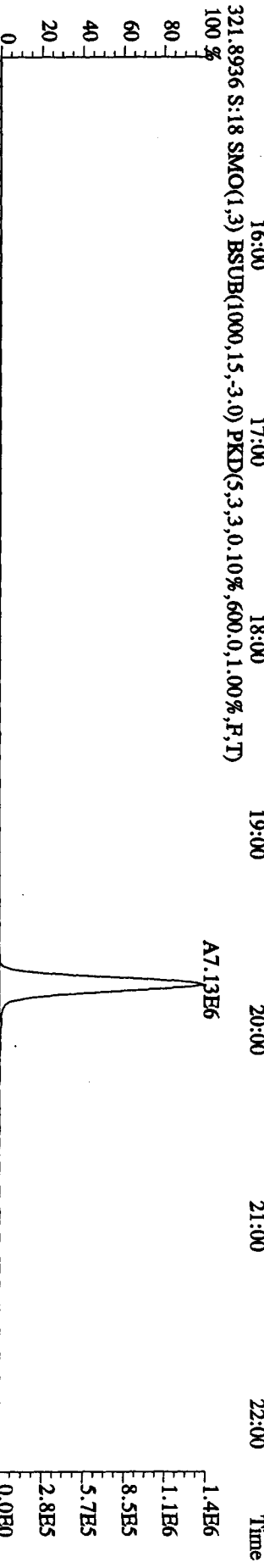
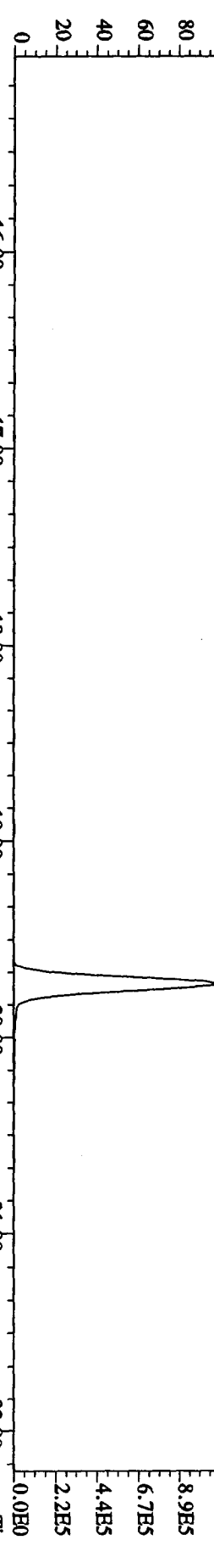




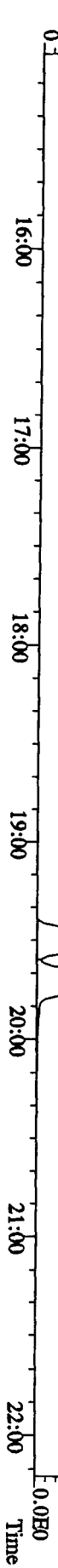
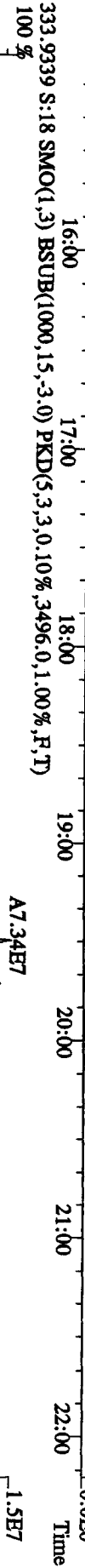
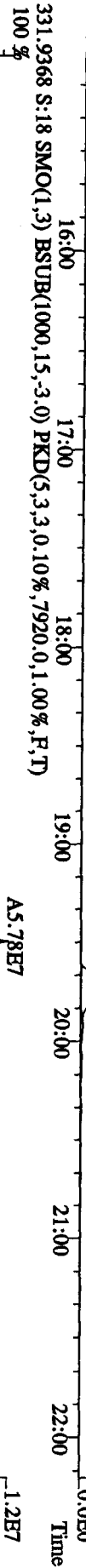
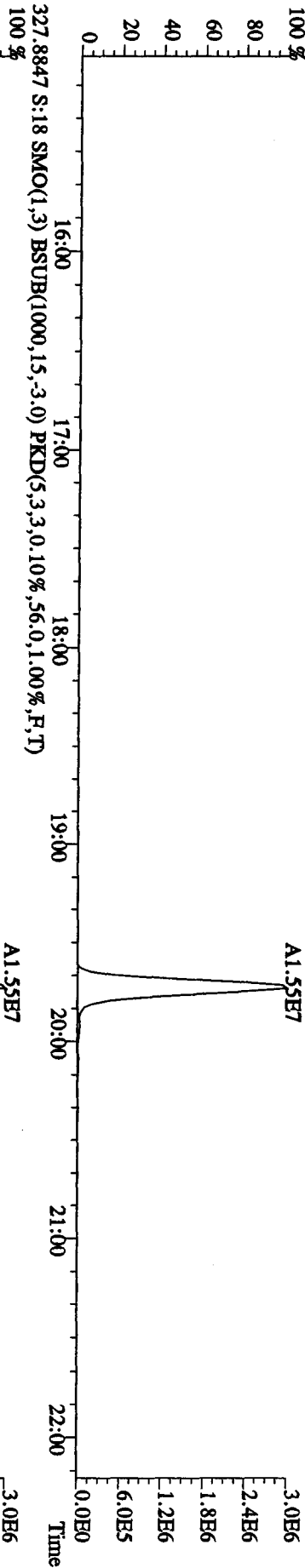
File: 01MAY104D5 #1-434 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 303.9016 S:18 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,812,0,1,00%,F,T) 100%
 315.9419 S:18 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2464,0,1,00%,F,T) 100%



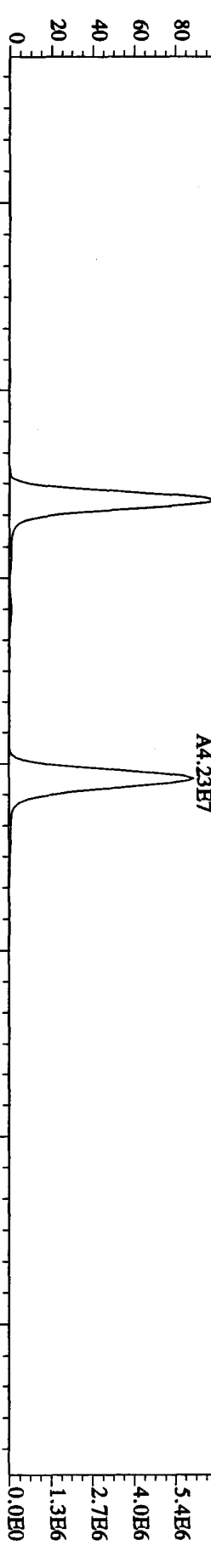
File:01MAY104D5 #1-434 Acq: 1-MAY-2010 21:17:02 GC EI + Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 319.8965 S:18 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,808,0,1,00%,F,T)



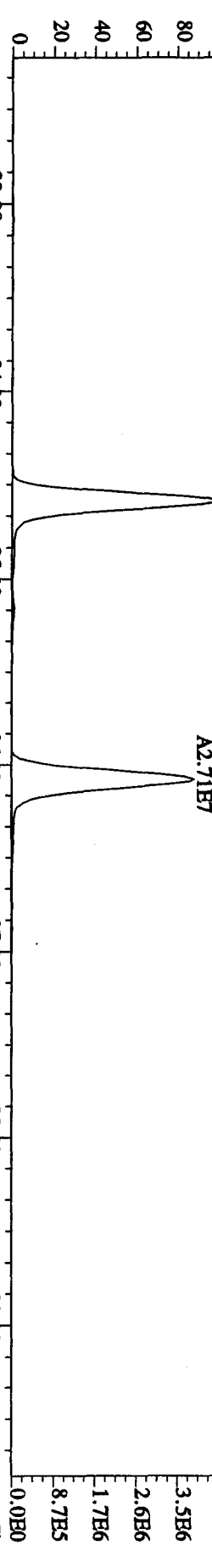
File:01MY10AD5 #1-434 Acq: 1-MAY-2010 21:17:02 GC FI + Voltage SIR Autospec-UltimaB
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 327.8847 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,56.0,1.00%,F,T) 100%



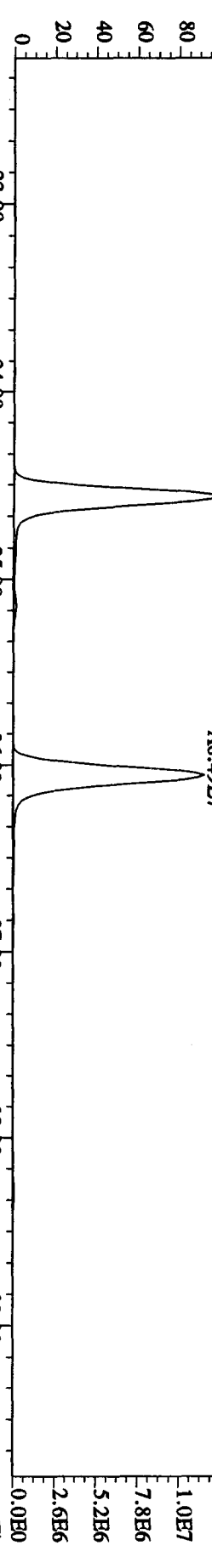
File:01MY104D5 #1-605 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 339.8597 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1344.0,1.00%,F,T)
 100 % A4.32E7



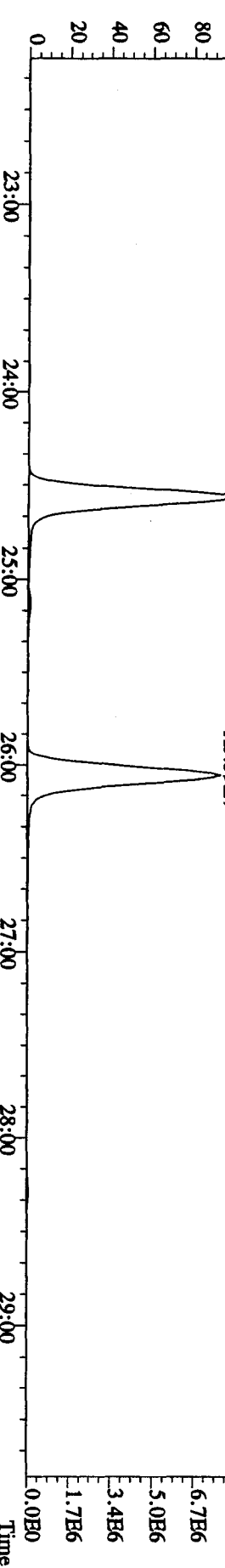
341.8567 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2380.0,1.00%,F,T)
 100 % A2.77E7



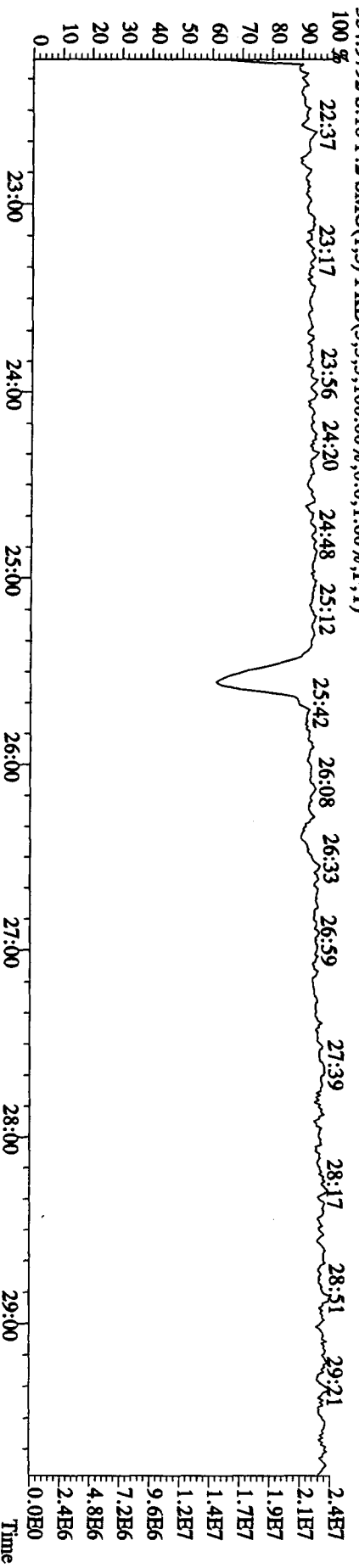
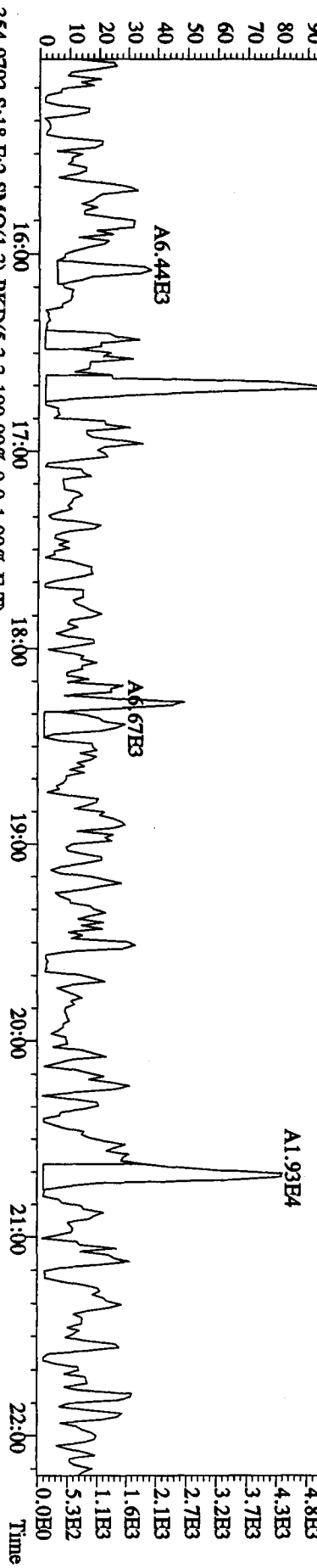
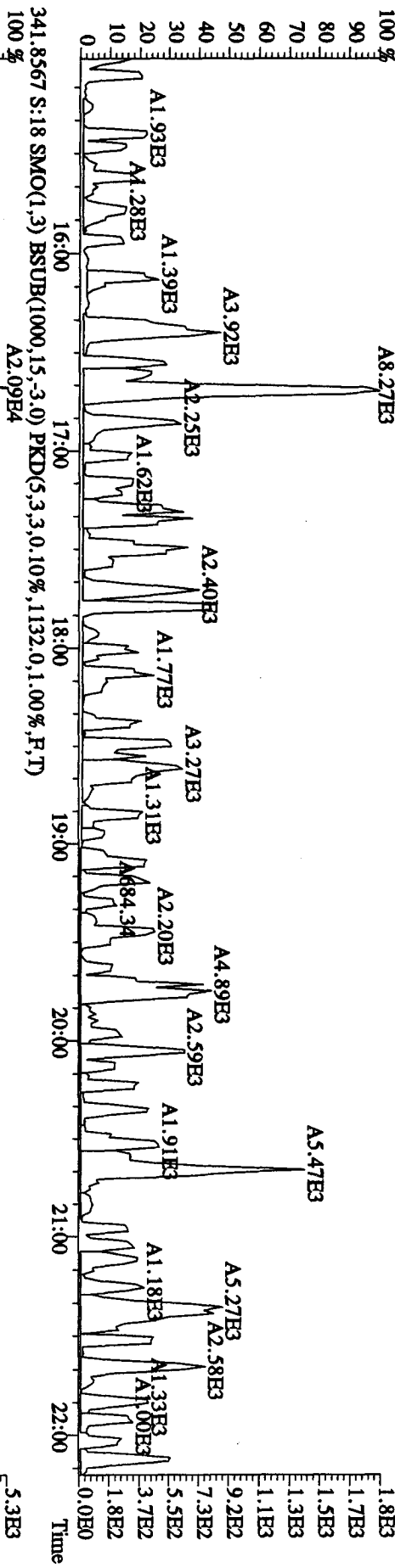
351.9000 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1636.0,1.00%,F,T)
 100 % A8.46E7



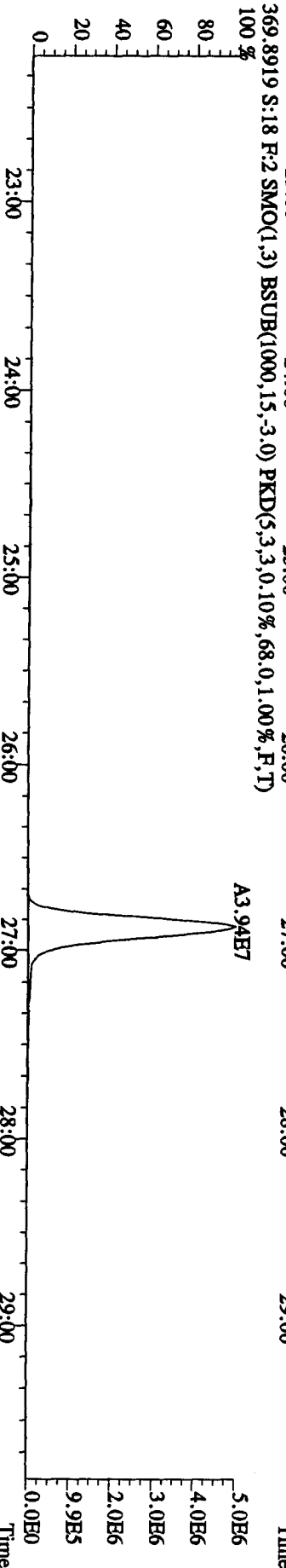
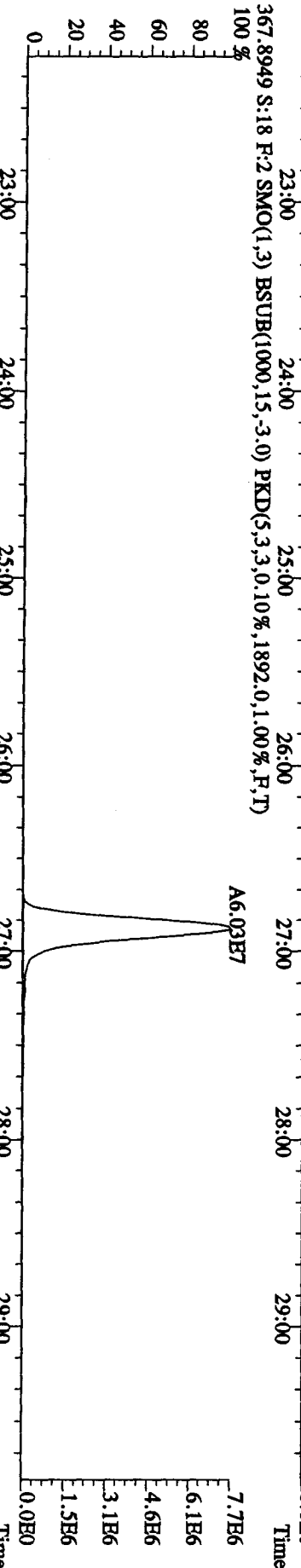
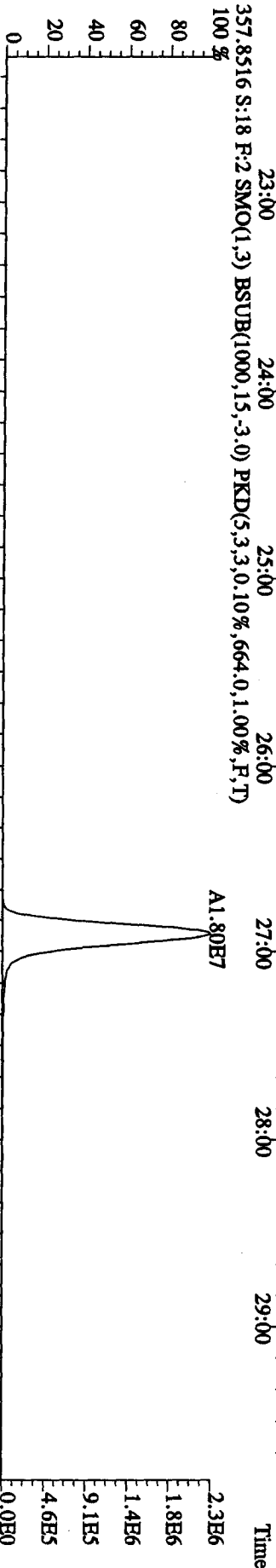
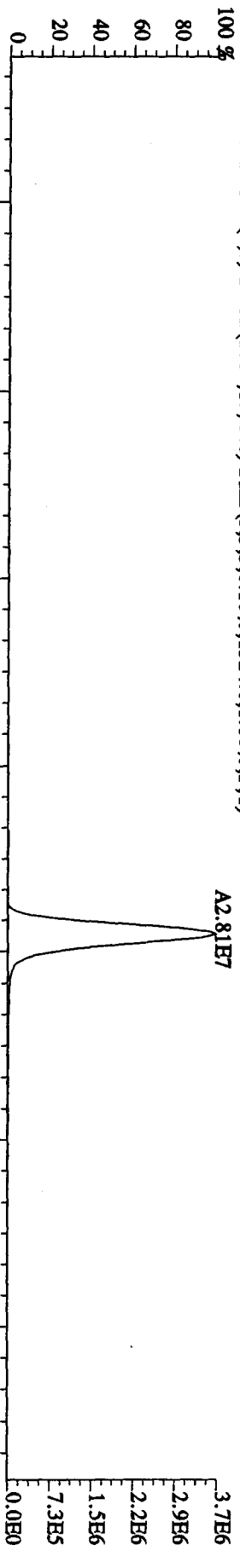
353.8970 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1720.0,1.00%,F,T)
 100 % A5.42E7



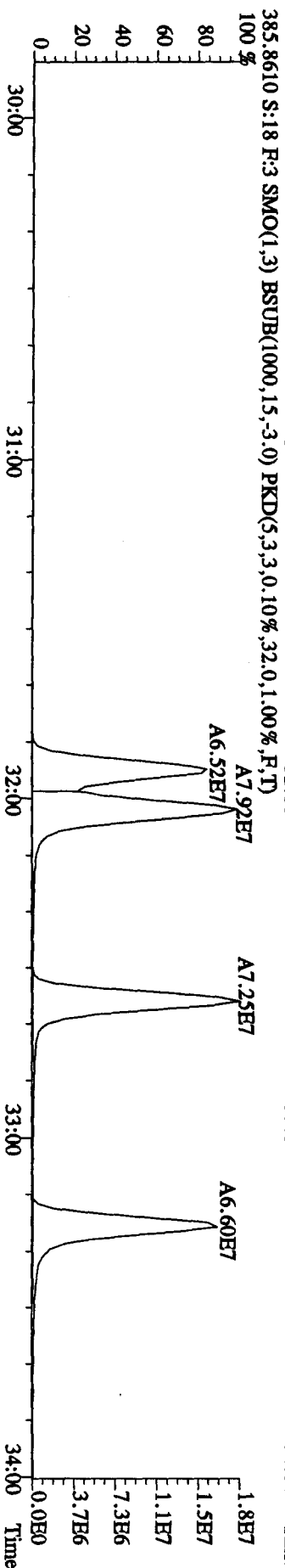
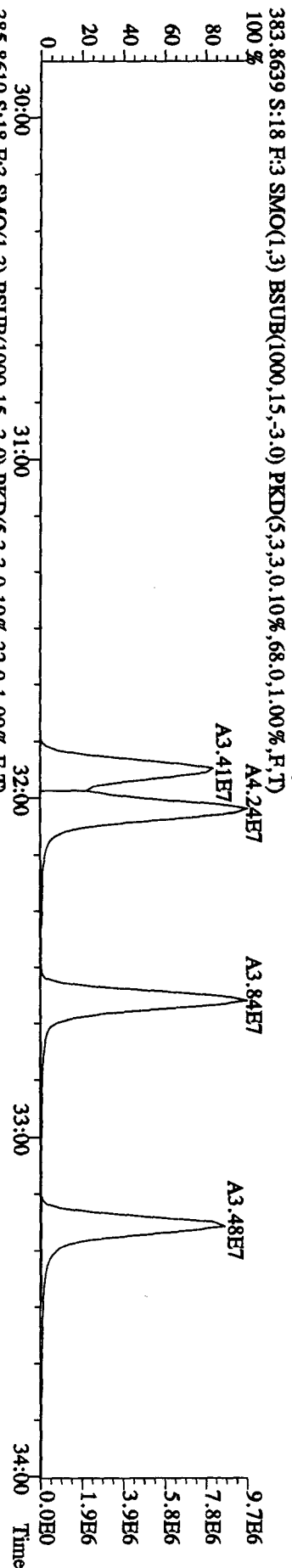
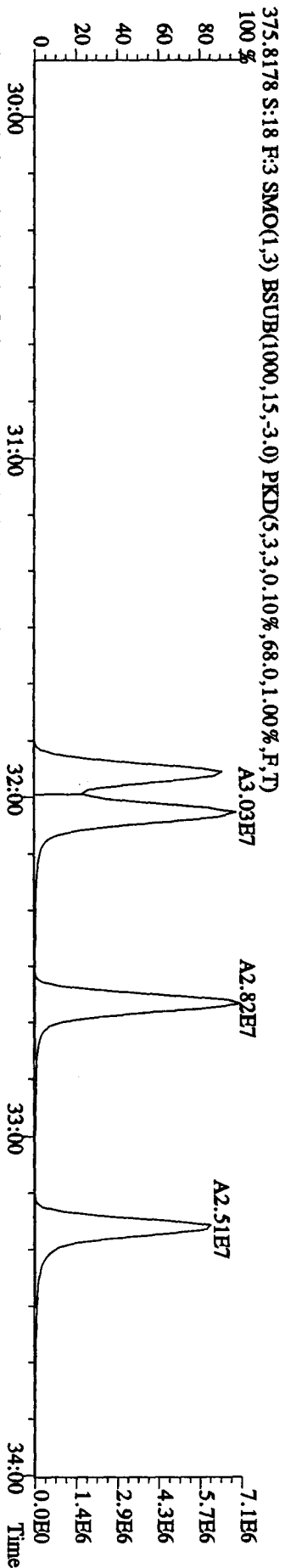
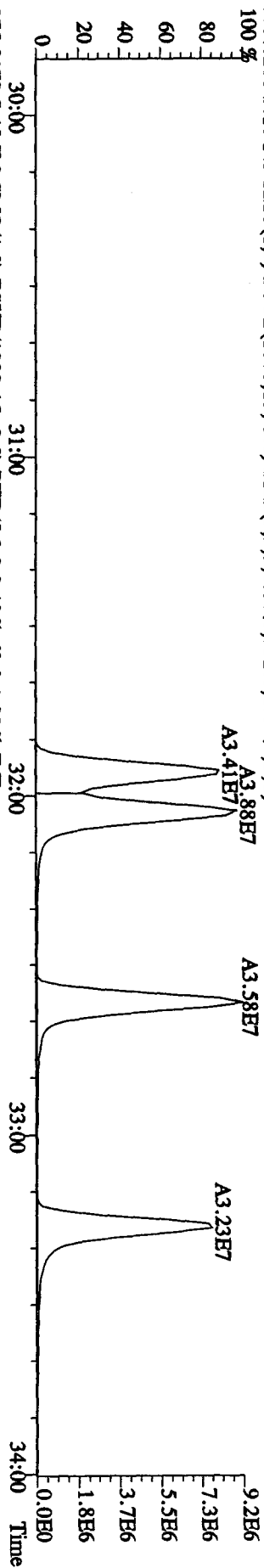
File:01MY104D5 #1-434 Acq: 1-MAY-2010 21:17:02 GC HI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 339.8597 S:18 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,48,0.1,0.0%,F,T)



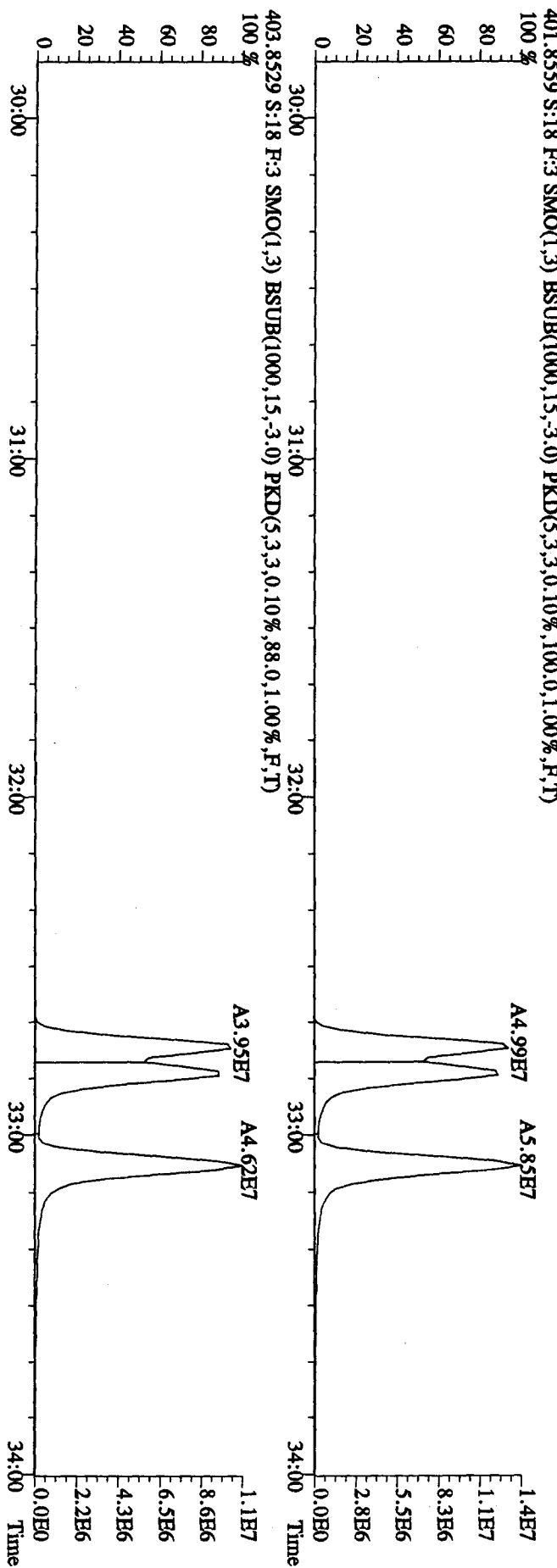
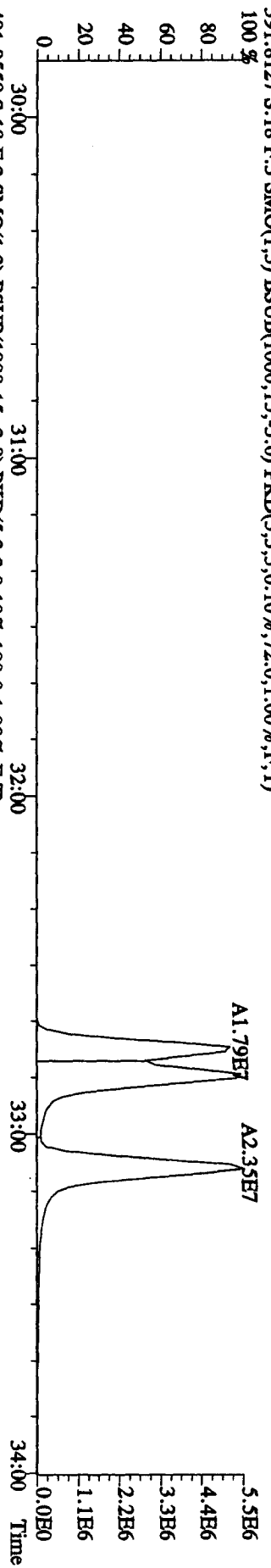
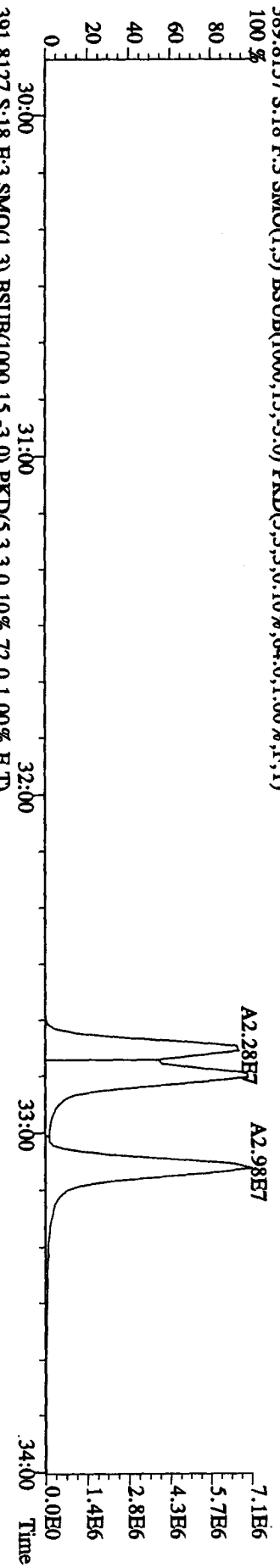
File:01MY104D5 #1-605 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
355.8546 S:18 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1524.0,1.00%,F,T)
100 %



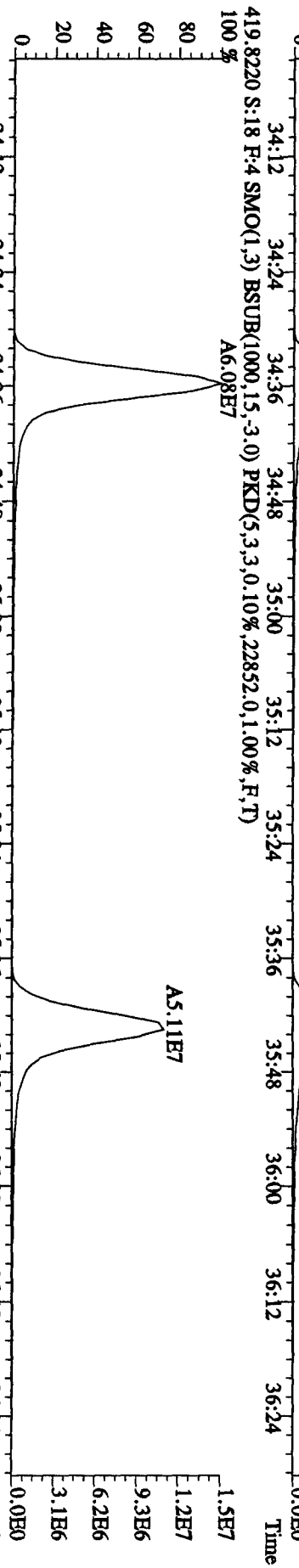
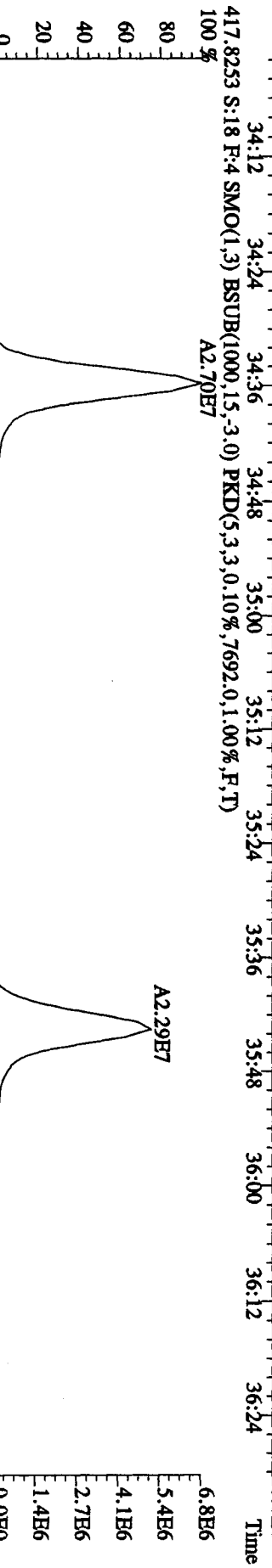
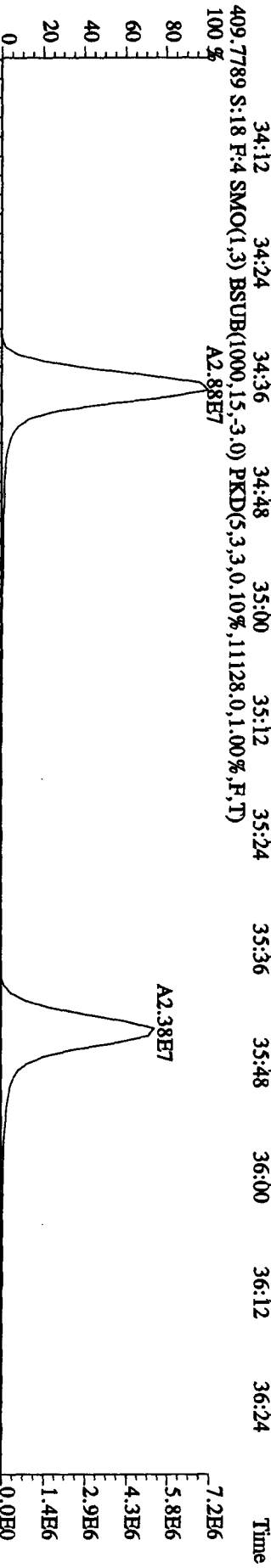
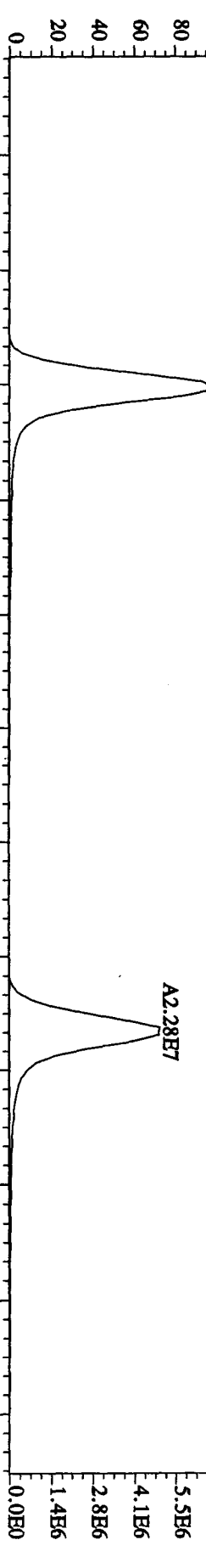
File:01MAY104D5 #1-316 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 373.8208 S:18 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,.332,0,1.00%,F,T)



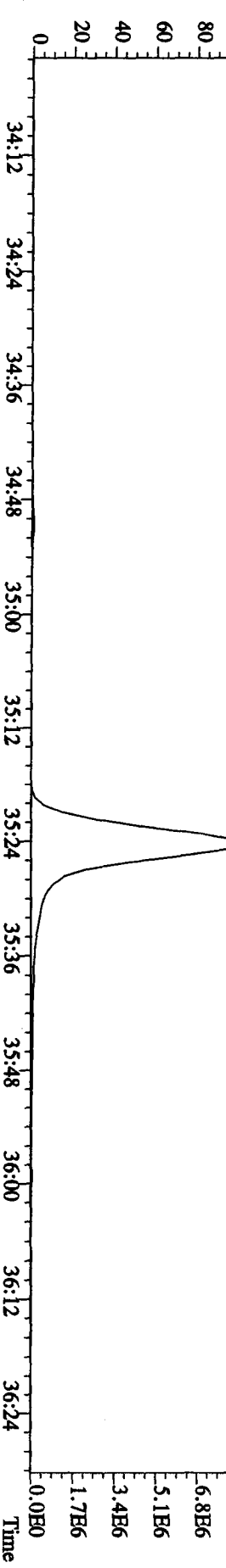
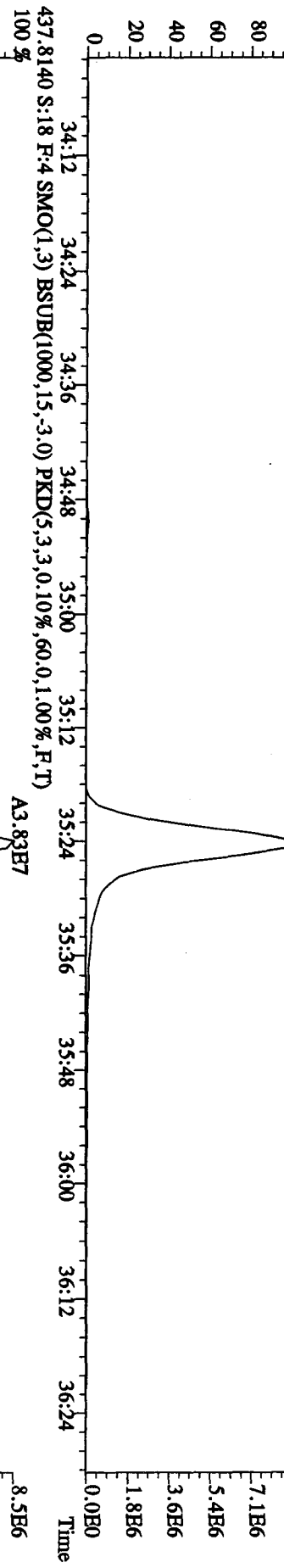
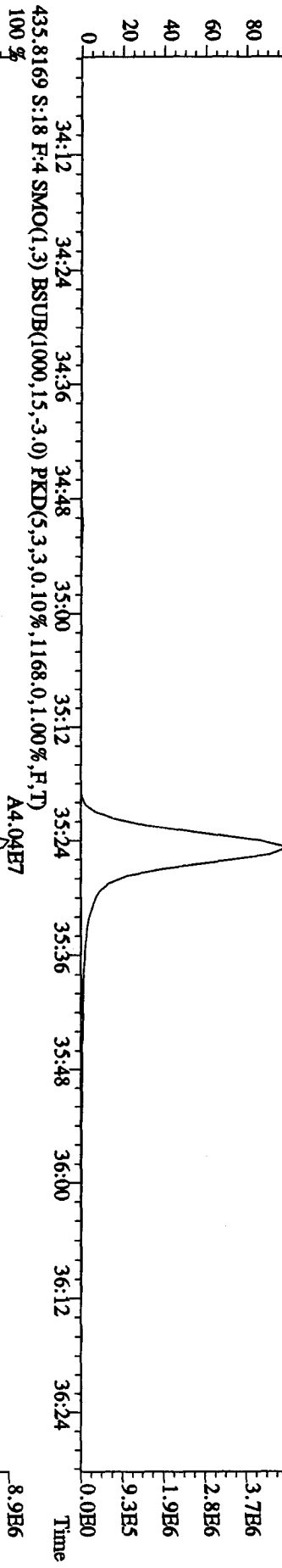
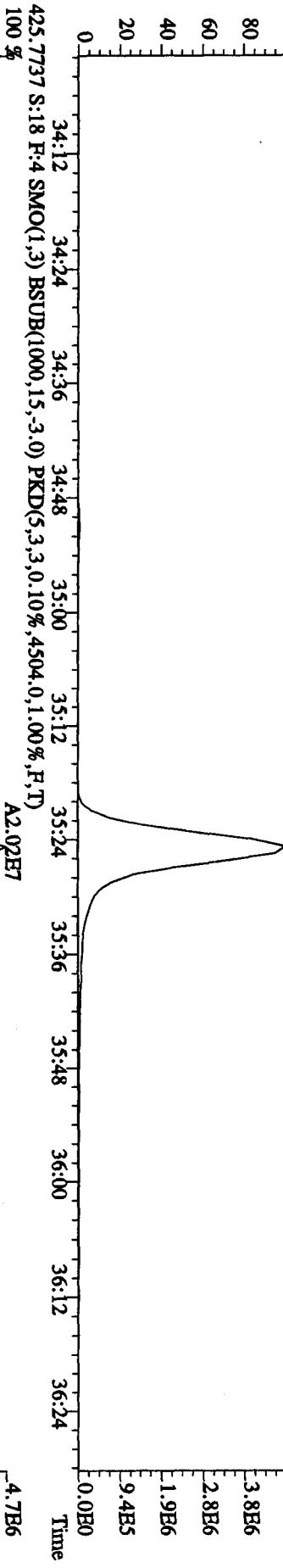
File:01MAY104D5 #1-316 Acq: 1-MAY-2010 21:17:02 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 389.8157 S:18 F:3 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,64.0,1.00%,F,T)



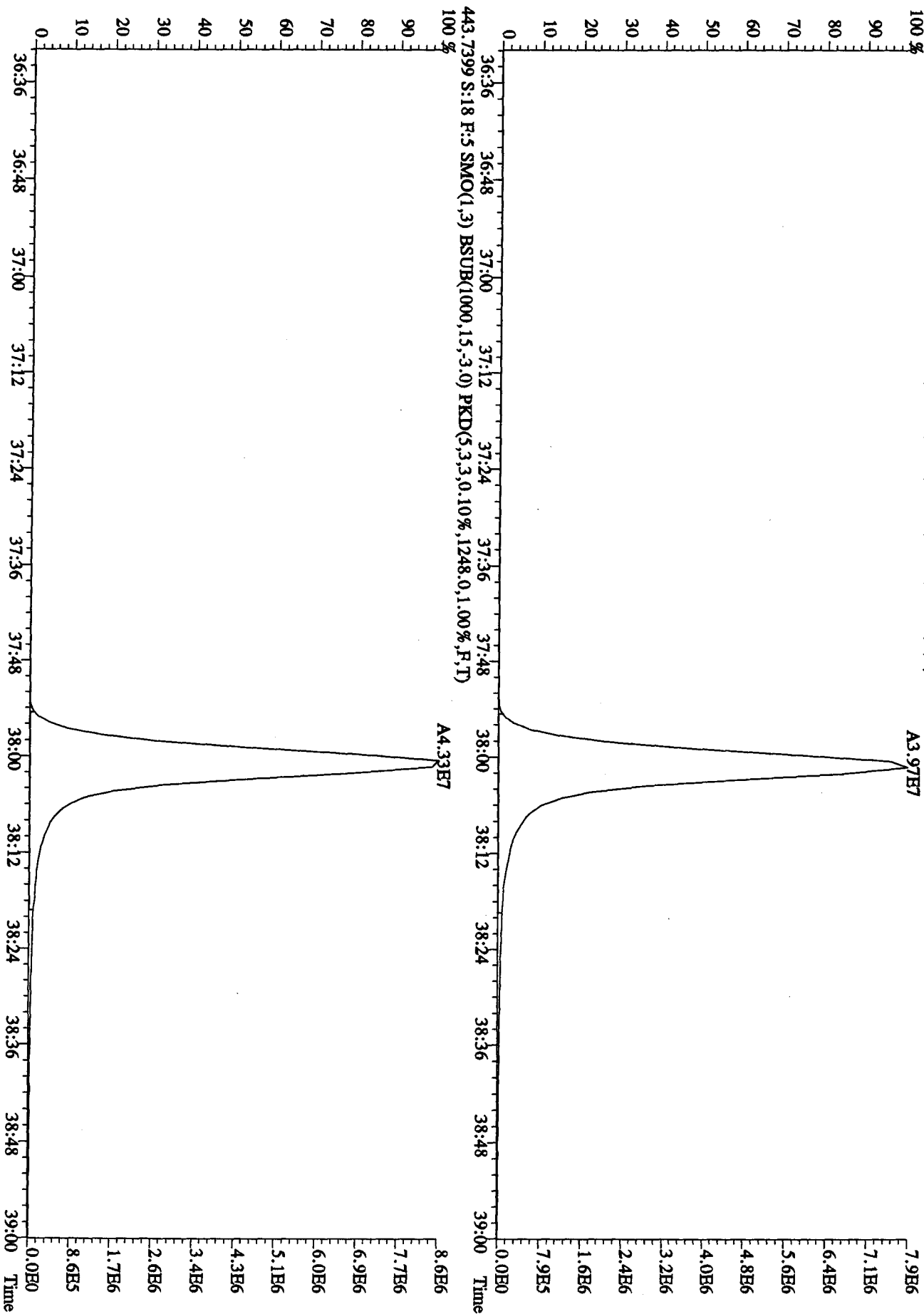
File:01MNT104D5 #1-198 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 407.7818 S:18 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,9600,0,1.00%,F,T)
 100 %



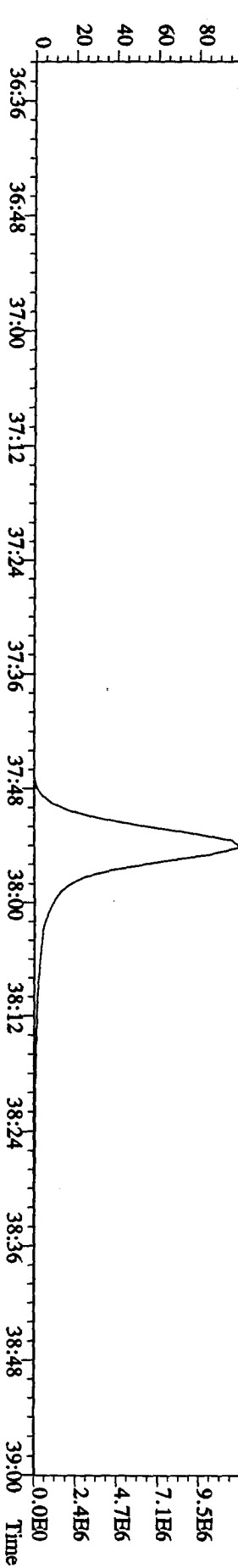
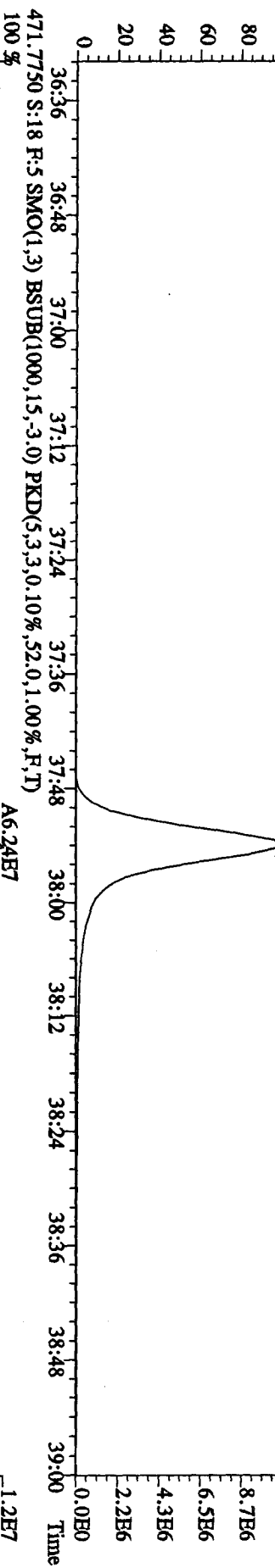
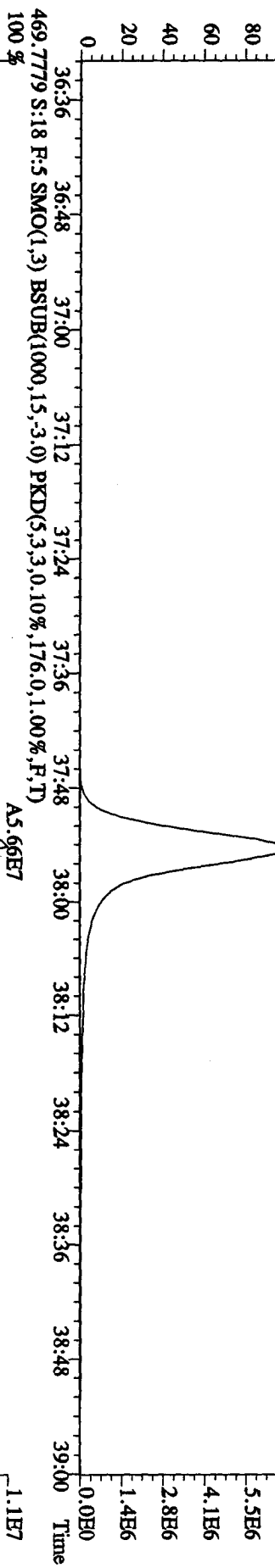
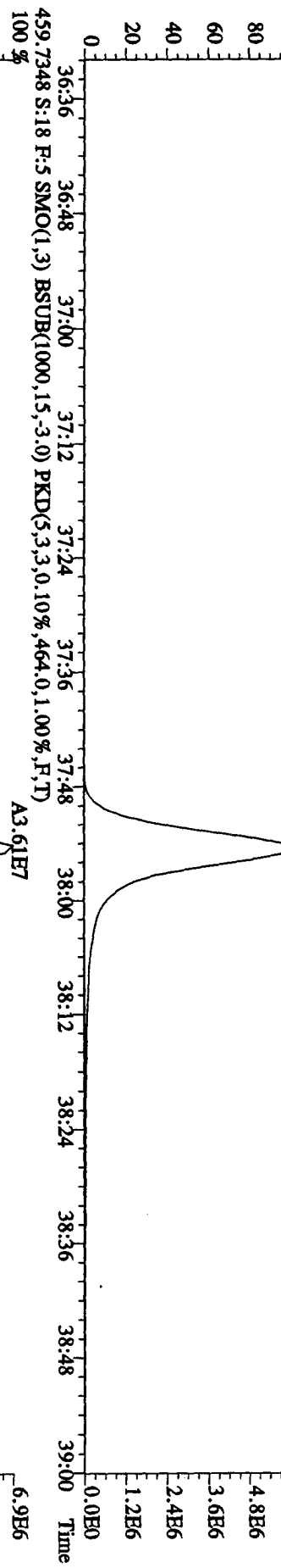
File:01MAY104D5 #1-198 Acq: 1-MAY-2010 21:17:02 GC BI+ Voltage SIR Autospec-UltimaB
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 423.7766 S:18 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4316.0,1.00%,F,T)



File:01MY104D5 #1-190 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-Ultimate
Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
441.7428 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,424.0,1.00%,F,T)
100 %

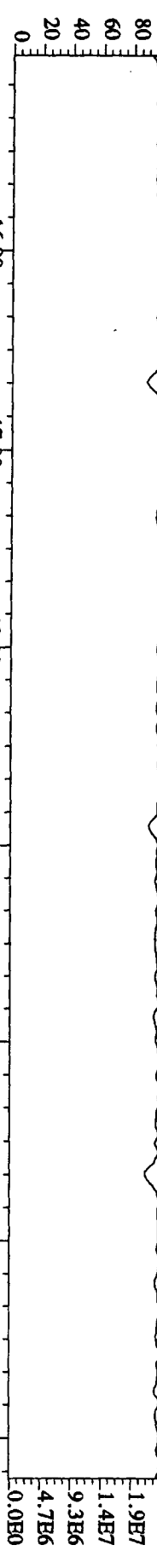


File:01MYY104D5 #1-190 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 457.7377 S:18 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,248.0,1.00%,F,T)

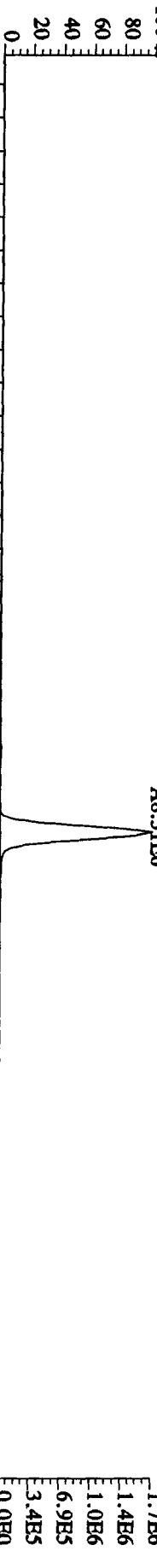


File:01MAY104D5 #1-434 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-Ultimate
Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A

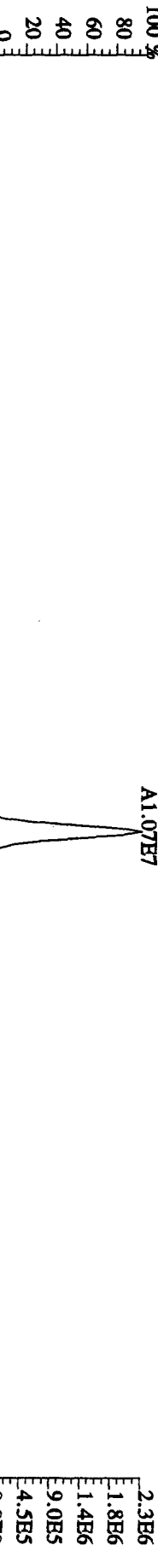
354.9792 S:18 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



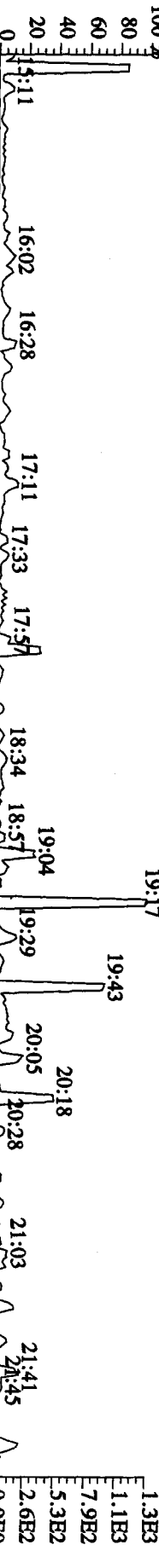
303.9016 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,812.0,1.00%,F,T)



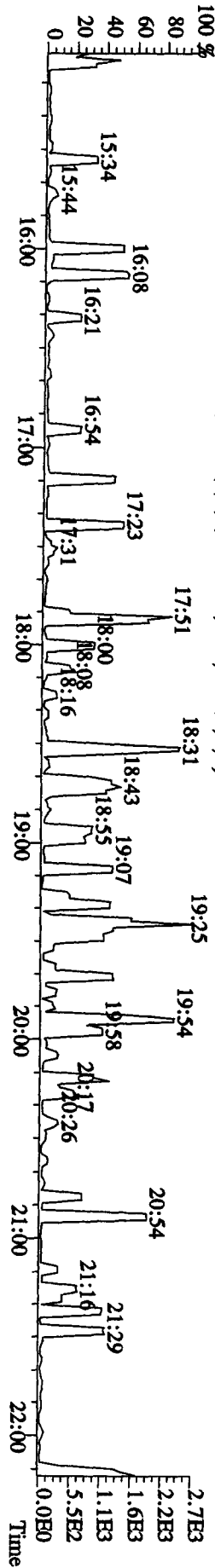
305.8987 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1704.0,1.00%,F,T)



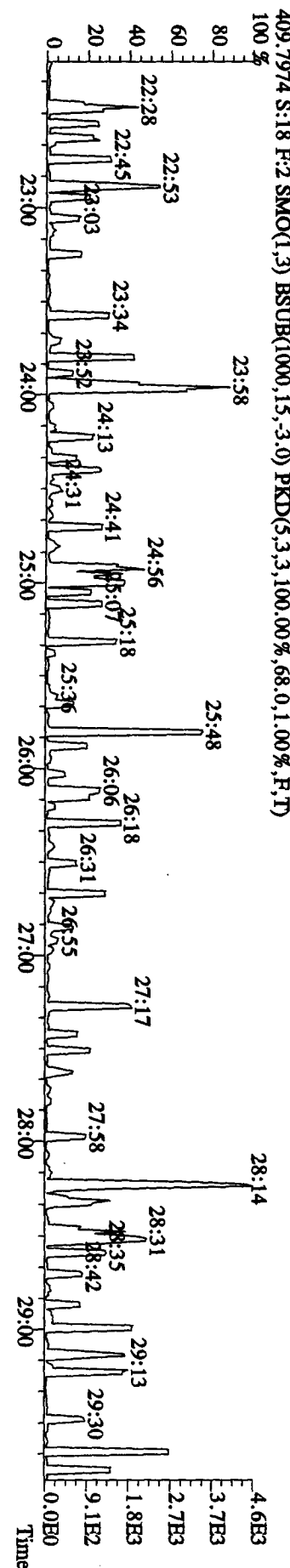
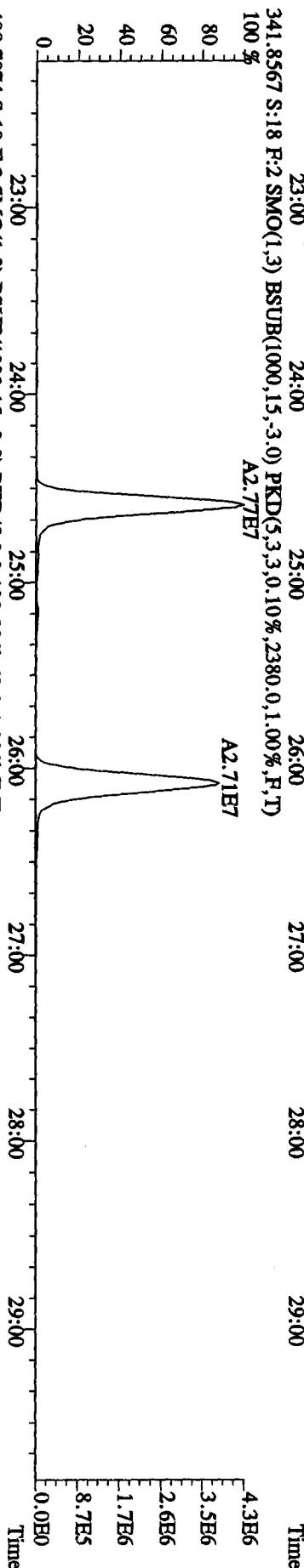
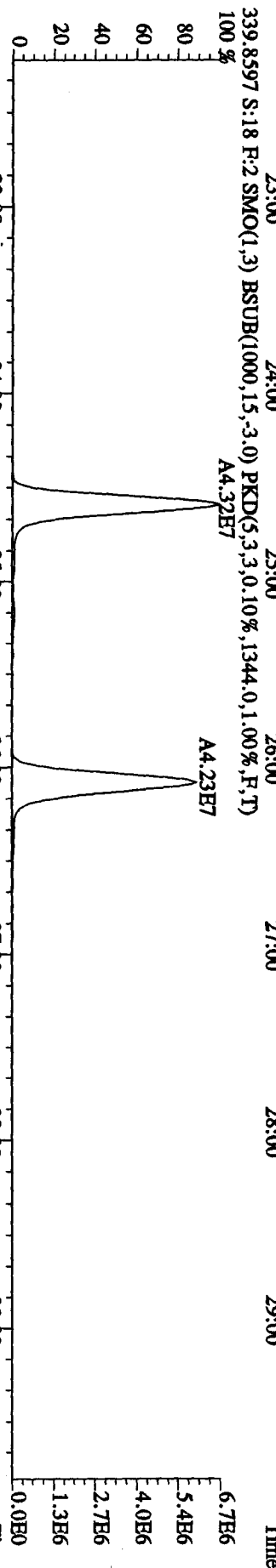
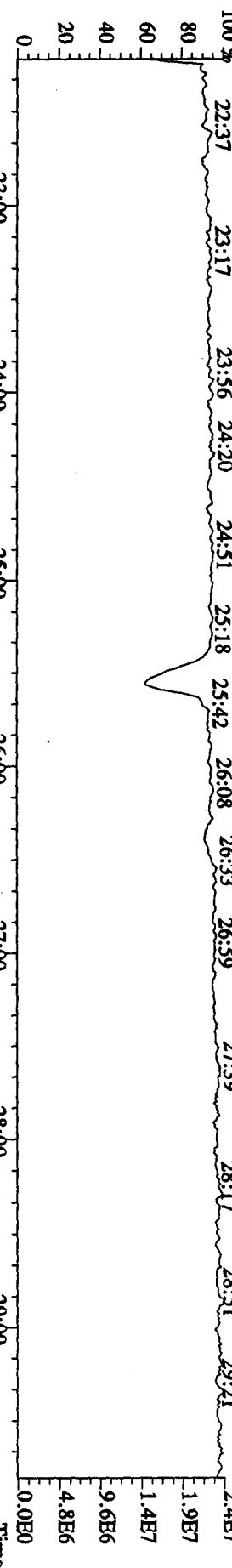
375.8364 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,60.0,1.00%,F,T)



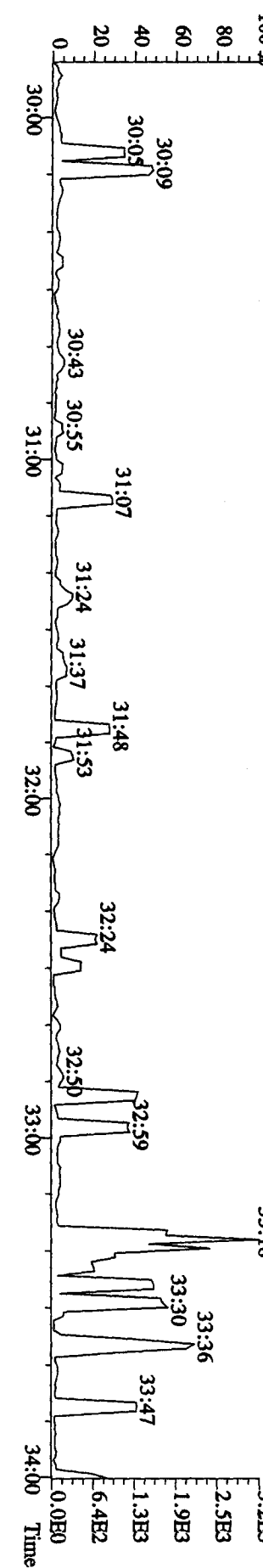
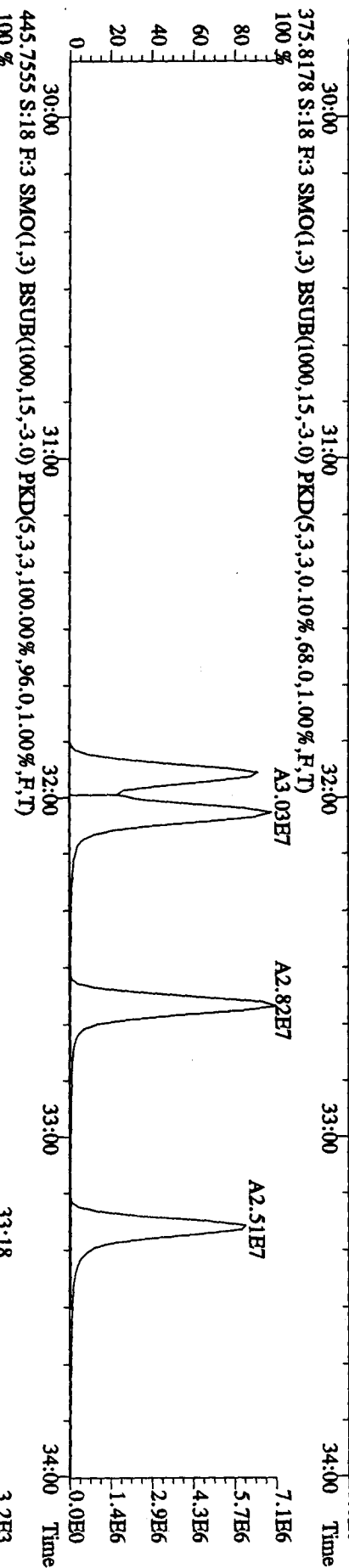
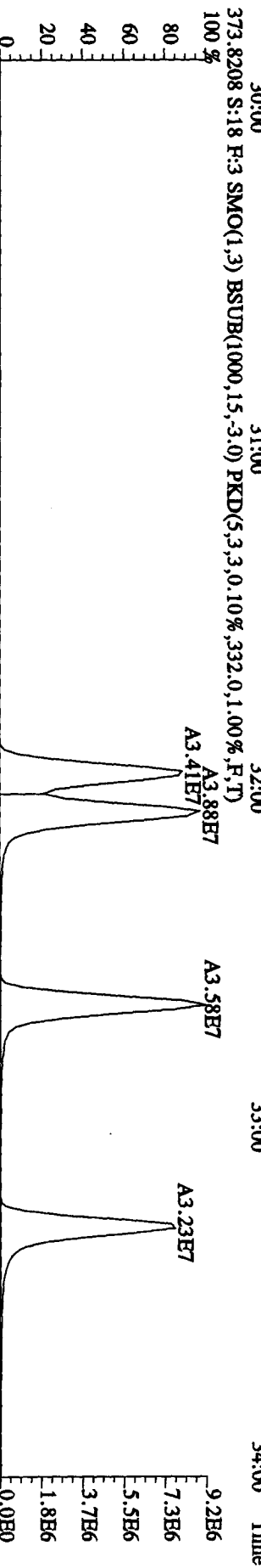
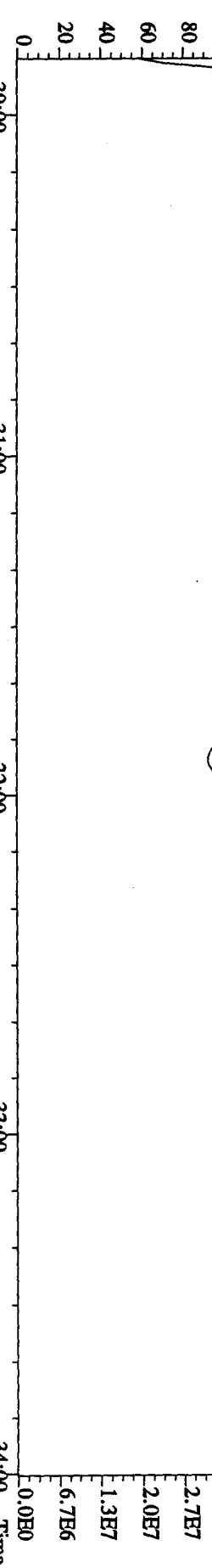
409.7974 S:18 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,68.0,1.00%,F,T)



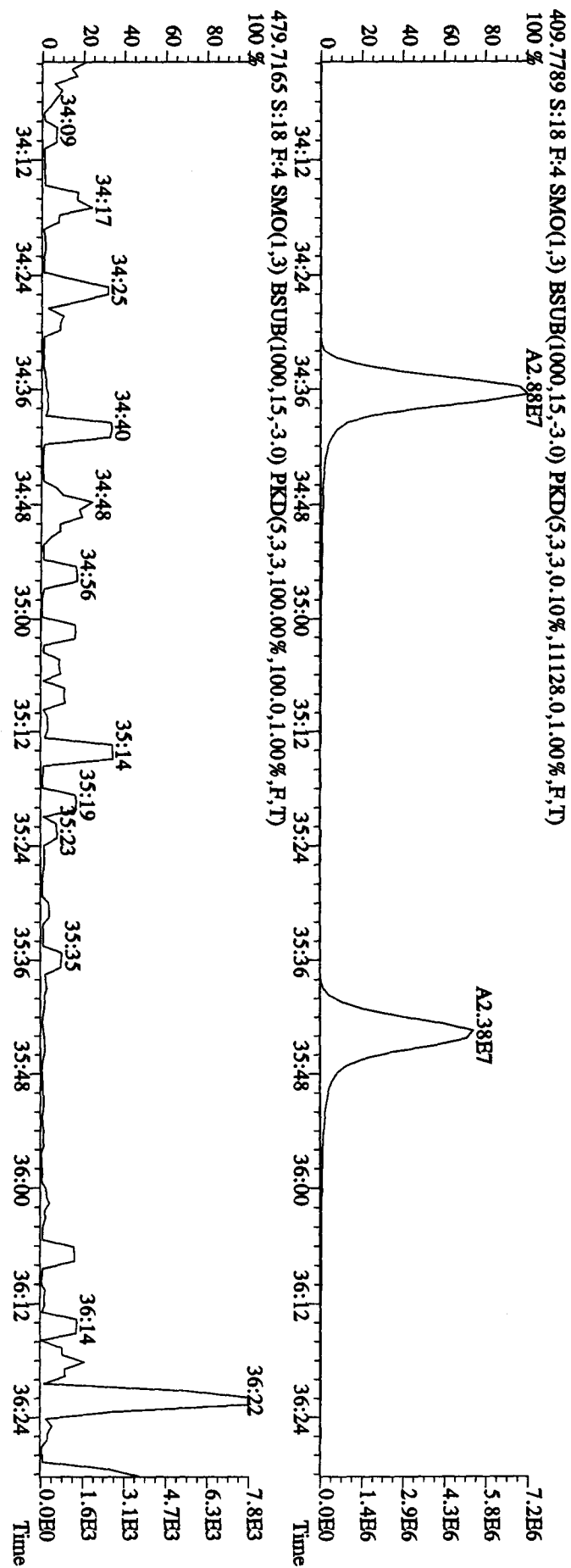
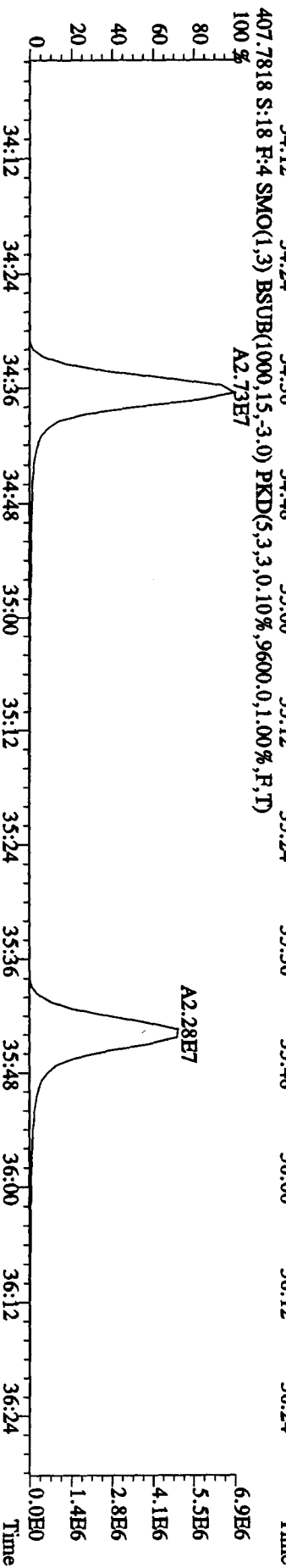
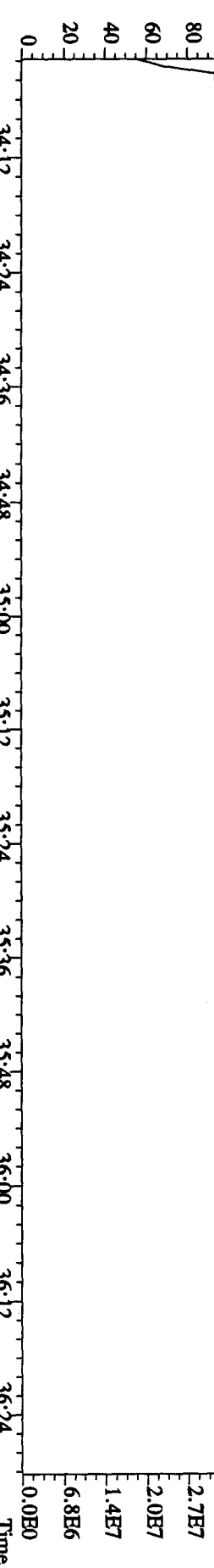
File:01MAY104D5 #1-605 Acq: 1-MAY-2010 21:17:02 GC HI + Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 354.9792 S:18 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



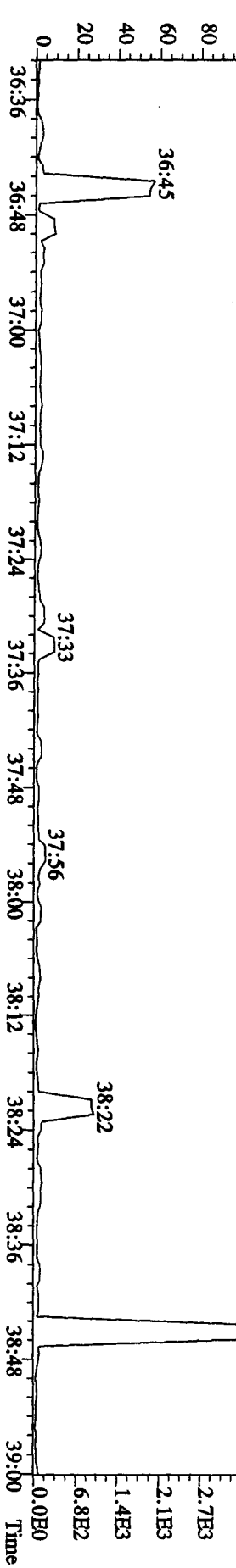
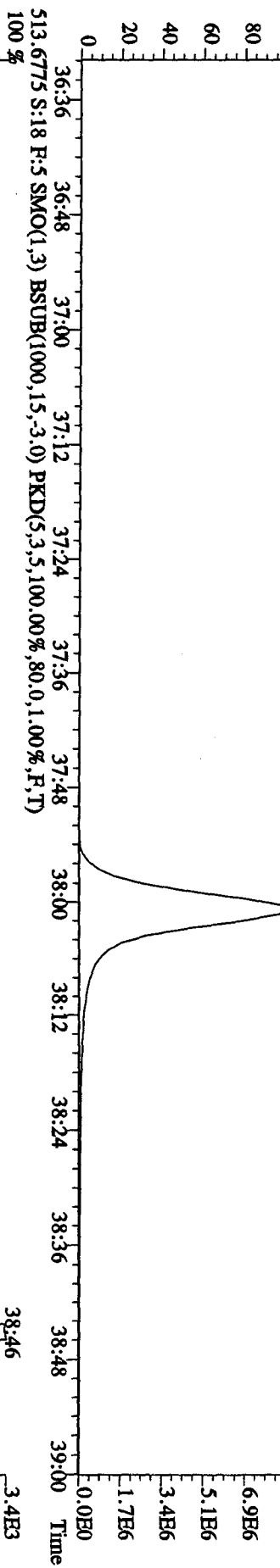
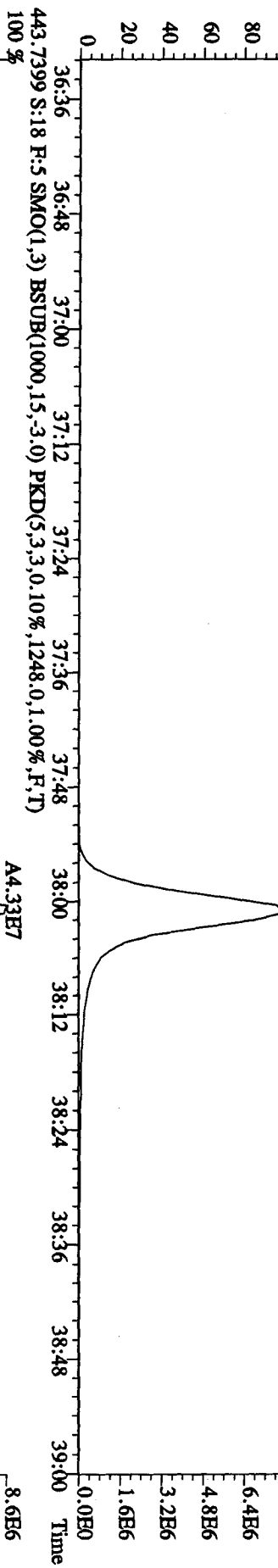
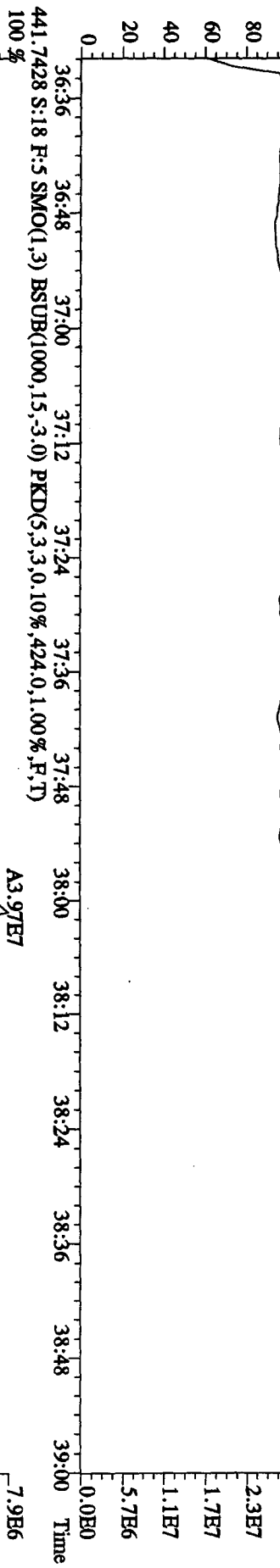
File:01MY104D5 #1-316 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 430.9728 S:18 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100 % 30:01 30:22 30:35 30:56 31:16 31:38 32:08 32:23 32:50 33:14 33:32 33:46



File:01MAY104D5 #1-198 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#18 Text:ST0501A :CS3 10DXN083 Exp:DIOXINRES8290A
 430.9728 S:18 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 34:07 34:17 34:32 34:40 34:58 35:06 35:17 35:26 35:37 35:44 35:54 36:02 36:20



File:01MAY104D5 #1-190 Acq: 1-MAY-2010 21:17:02 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#18 Text:ST0501A :CSS 10DXN083 Exp:DIOXINRES8290A
 442.9728 S:18 F:5 SMO(1.3) PKD(5.3,3,100.00%,0.0,1.00%,F,T)
 100 % 36:36 36:45 36:56 37:05 37:17 37:36 37:46 38:00 38:12 38:40 38:50



Initial Calibration

Includes (as applicable):

runlog

standard raw data

statistical summary

ms tune data

Initial Calibration Checklist
Dioxin Methods

ICAL ID 8290A041210405
 Method ID 8290A Date Scanned _____
 Column ID DB5 Instrument ID 405
 STD ID's ST0412(B,A,-,D,C) STD Solution 09DXN422, 09DXN423, 10DXN111, 09DXN4, 09DXN456
 GC Program OCDD Multiplier Setting 410
 Analyzed By M.G. Date Analyzed 4/12/10
 Prepared By M.G. Date Prepared 4/14/10
 Reviewed By MAT Date Reviewed 4/14/10

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

COMMENTS:

*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: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5

Name	Mean	S. D.	%RSD	12AP104D5 12AP104D5 12AP104D5 12AP104D5 12AP104D5				
				S4	S3	S2	S6	S5
				RRF1	RRF2	RRF3	RRF4	RRF5
13C-1,2,3,4-TCDD	-	-	-	-	-	-	-	-
13C-2,3,7,8-TCDF	1.521	0.098	6.47 %	1.54	1.47	1.60	1.38	1.62
2,3,7,8-TCDF	0.945	0.042	4.44 %	0.88	0.94	0.98	0.95	0.98
Total TCDF	0.945	0.042	4.44 %	0.88	0.94	0.98	0.95	0.98
13C-2,3,7,8-TCDD	0.950	0.080	8.47 %	0.94	0.87	0.95	0.91	1.08
2,3,7,8-TCDD	1.021	0.031	3.03 %	1.00	0.98	1.04	1.04	1.05
Total TCDD	1.021	0.031	3.03 %	1.00	0.98	1.04	1.04	1.05
37Cl-2,3,7,8-TCDD	2.261	0.218	9.64 %	2.41	2.04	2.16	2.14	2.56
13C-1,2,3,7,8-PeCDF	1.050	0.149	14.1 %	0.97	0.97	1.01	0.98	1.31
1,2,3,7,8-PeCDF	1.045	0.049	4.68 %	0.97	1.02	1.09	1.09	1.06
2,3,4,7,8-PeCDF	0.982	0.045	4.55 %	0.93	0.97	1.03	1.02	0.96
Total F2 PeCDF	1.013	0.046	4.50 %	0.95	0.99	1.06	1.05	1.01
Total F1 PeCDF	1.013	0.046	4.50 %	0.95	0.99	1.06	1.05	1.01
13C-1,2,3,7,8-PeCDD	0.670	0.094	14.0 %	0.61	0.65	0.62	0.64	0.84
1,2,3,7,8-PeCDD	0.982	0.047	4.75 %	0.94	0.93	1.04	1.01	0.99
Total PeCDD	0.982	0.047	4.75 %	0.94	0.93	1.04	1.01	0.99
13C-1,2,3,7,8,9-HxCDD	-	-	-	-	-	-	-	-
13C-1,2,3,4,7,8-HxCDF	1.025	0.075	7.29 %	1.08	0.98	1.08	0.92	1.06
1,2,3,4,7,8-HxCDF	1.213	0.061	5.00 %	1.12	1.18	1.25	1.28	1.23
1,2,3,6,7,8-HxCDF	1.343	0.096	7.13 %	1.20	1.34	1.46	1.38	1.33
2,3,4,6,7,8-HxCDF	1.222	0.064	5.27 %	1.13	1.19	1.29	1.26	1.23
1,2,3,7,8,9-HxCDF	1.092	0.072	6.60 %	1.02	1.02	1.15	1.17	1.10
Total HxCDF	1.218	0.070	5.72 %	1.12	1.18	1.29	1.27	1.22
13C-1,2,3,6,7,8-HxCDD	0.807	0.060	7.46 %	0.81	0.77	0.86	0.72	0.87
1,2,3,4,7,8-HxCDD	1.007	0.056	5.54 %	0.93	1.02	1.04	1.07	0.98

1,2,3,6,7,8-HxCDD	1.114	0.059	5.33 %	1.06	1.06	1.19	1.16	1.11
1,2,3,7,8,9-HxCDD	1.209	0.083	6.88 %	1.12	1.17	1.22	1.34	1.19
Total HxCDD	1.110	0.061	5.46 %	1.04	1.08	1.15	1.19	1.09
1,2,3,4,6,7,8-HpCDF	0.863	0.061	7.10 %	0.87	0.82	0.95	0.79	0.88
1,2,3,4,6,7,8-HpCDF	1.310	0.072	5.52 %	1.20	1.28	1.39	1.36	1.32
1,2,3,4,7,8,9-HpCDF	1.026	0.053	5.19 %	0.95	1.00	1.09	1.06	1.03
Total HpCDF	1.168	0.063	5.36 %	1.08	1.14	1.24	1.21	1.18
1,2,3,4,6,7,8-HpCDD	0.697	0.052	7.39 %	0.71	0.67	0.77	0.64	0.71
1,2,3,4,6,7,8-HpCDD	1.072	0.039	3.60 %	1.03	1.03	1.11	1.11	1.08
Total HpCDD	1.072	0.039	3.60 %	1.03	1.03	1.11	1.11	1.08
1,3C-OCDD	0.531	0.041	7.69 %	0.53	0.49	0.58	0.49	0.57
OCDF	1.445	0.085	5.85 %	1.32	1.39	1.51	1.50	1.50
OCDD	1.166	0.060	5.16 %	1.08	1.14	1.23	1.21	1.17

Run #1 Filename 12AP104D5 S: 4 I: 1
 Acquired: 12-APR-10 10:48:47 Processed: 12-APR-10 13:15:04
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5

Comments:

Sample text: ST0412B :CS-1 09DXN422

Name	Resp	RA	RT	RRF	Mod?
13C-1,2,3,4-TCDD	150889300	0.82 y	19:40	-	100.00 n
13C-2,3,7,8-TCDF	232739000	0.78 y	19:04	1.5424	100.00 n
2,3,7,8-TCDF	1023349	0.88 y	19:05	0.8794	0.50 n
Total TCDF	-	- n	-	0.8794	0.50 n
13C-2,3,7,8-TCDD	141161700	0.80 y	19:53	0.9355	100.00 n
2,3,7,8-TCDD	703881	0.67 y	19:54	0.9973	0.50 n
Total TCDD	-	- n	-	0.9973	0.50 n
37Cl-2,3,7,8-TCDD	1819544	1.00 y	19:54	2.4118	0.50 n
13C-1,2,3,7,8-PeCDF	146106800	1.52 y	24:49	0.9683	100.00 n
1,2,3,7,8-PeCDF	3546420	1.50 y	24:50	0.9709	2.50 n
2,3,4,7,8-PeCDF	3384670	1.43 y	26:21	0.9266	2.50 n
Total F2 PeCDF	-	- n	-	0.9488	5.00 n
Total F1 PeCDF	-	- n	-	0.9488	5.00 n
13C-1,2,3,7,8-PeCDD	92385600	1.55 y	27:09	0.6123	100.00 n
1,2,3,7,8-PeCDD	2166233	1.61 y	27:12	0.9379	2.50 n
Total PeCDD	-	- n	-	0.9379	2.50 n
13C-1,2,3,7,8,9-HxCDD	103077500	1.29 y	33:11	-	100.00 n
13C-1,2,3,4,7,8-HxCDF	111667600	0.52 y	32:02	1.0833	100.00 n
1,2,3,4,7,8-HxCDF	3133010	1.21 y	32:04	1.1223	2.50 n
1,2,3,6,7,8-HxCDF	3346790	1.13 y	32:10	1.1988	2.50 n
2,3,4,6,7,8-HxCDF	3162220	1.22 y	32:43	1.1327	2.50 n
1,2,3,7,8,9-HxCDF	2848310	1.21 y	33:21	1.0203	2.50 n
Total HxCDF	-	- n	-	1.1185	10.00 n
13C-1,2,3,6,7,8-HxCDD	83861100	1.28 y	32:55	0.8136	100.00 n
1,2,3,4,7,8-HxCDD	1947993	1.33 y	32:51	0.9292	2.50 n
1,2,3,6,7,8-HxCDD	2219360	1.18 y	32:56	1.0586	2.50 n
1,2,3,7,8,9-HxCDD	2352910	1.23 y	33:12	1.1223	2.50 n
Total HxCDD	-	- n	-	1.0367	7.50 n
13C-1,2,3,4,6,7,8-HpCDF	89290500	0.42 y	34:41	0.8662	100.00 n
1,2,3,4,6,7,8-HpCDF	2683070	0.92 y	34:42	1.2020	2.50 n
1,2,3,4,7,8,9-HpCDF	2130830	0.96 y	35:50	0.9546	2.50 n
Total HpCDF	-	- n	-	1.0783	5.00 n
13C-1,2,3,4,6,7,8-HpCDD	72671900	1.06 y	35:30	0.7050	100.00 n
1,2,3,4,6,7,8-HpCDD	1867690	1.03 y	35:31	1.0280	2.50 n
Total HpCDD	-	- n	-	1.0280	2.50 n
13C-OCDD	109193900	0.90 y	38:02	0.5297	200.00 n
OCDF	3611560	0.91 y	38:09	1.3230	5.00 n

OCDD 2945690 0.92 y 38:02 1.0791 5.00 n

Run #2 Filename 12AP104D5 S: 3 I: 1
 Acquired: 12-APR-10 10:04:44 Processed: 12-APR-10 13:15:05
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5

Comments:

Sample text: ST0412A :CS-2 09DXN423

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	161658700	0.83 y	19:41	-	100.00	n
13C-2,3,7,8-TCDF	237756000	0.78 y	19:06	1.4707	100.00	n
2,3,7,8-TCDF	4448700	0.78 y	19:07	0.9356	2.00	n
Total TCDF	-	- n	-	0.9356	2.00	n
13C-2,3,7,8-TCDD	141013400	0.83 y	19:54	0.8723	100.00	n
2,3,7,8-TCDD	2761520	0.74 y	19:55	0.9792	2.00	n
Total TCDD	-	- n	-	0.9792	2.00	n
37Cl-2,3,7,8-TCDD	6579920	1.00 y	19:55	2.0351	2.00	n
13C-1,2,3,7,8-PeCDF	157487700	1.55 y	24:50	0.9742	100.00	n
1,2,3,7,8-PeCDF	16085800	1.52 y	24:52	1.0214	10.00	n
2,3,4,7,8-PeCDF	15225000	1.52 y	26:23	0.9667	10.00	n
Total F2 PeCDF	-	- n	-	0.9941	20.00	n
Total F1 PeCDF	-	- n	-	0.9941	20.00	n
13C-1,2,3,7,8-PeCDD	104378100	1.53 y	27:11	0.6457	100.00	n
1,2,3,7,8-PeCDD	9696460	1.56 y	27:13	0.9290	10.00	n
Total PeCDD	-	- n	-	0.9290	10.00	n
13C-1,2,3,7,8,9-HxCDD	119338900	1.29 y	33:12	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	116840100	0.51 y	32:03	0.9791	100.00	n
1,2,3,4,7,8-HxCDF	13837370	1.16 y	32:04	1.1843	10.00	n
1,2,3,6,7,8-HxCDF	15711510	1.20 y	32:11	1.3447	10.00	n
2,3,4,6,7,8-HxCDF	13850440	1.17 y	32:44	1.1854	10.00	n
1,2,3,7,8,9-HxCDF	11885350	1.19 y	33:23	1.0172	10.00	n
Total HxCDF	-	- n	-	1.1829	40.00	n
13C-1,2,3,6,7,8-HxCDD	92237400	1.32 y	32:57	0.7729	100.00	n
1,2,3,4,7,8-HxCDD	9381490	1.25 y	32:53	1.0171	10.00	n
1,2,3,6,7,8-HxCDD	9738380	1.25 y	32:57	1.0558	10.00	n
1,2,3,7,8,9-HxCDD	10785510	1.28 y	33:12	1.1693	10.00	n
Total HxCDD	-	- n	-	1.0807	30.00	n
13C-1,2,3,4,6,7,8-HpCDF	97759400	0.43 y	34:42	0.8192	100.00	n
1,2,3,4,6,7,8-HpCDF	12506030	0.97 y	34:43	1.2793	10.00	n
1,2,3,4,7,8,9-HpCDF	9737130	0.96 y	35:52	0.9960	10.00	n
Total HpCDF	-	- n	-	1.1376	20.00	n
13C-1,2,3,4,6,7,8-HpCDD	79460100	1.04 y	35:31	0.6658	100.00	n
1,2,3,4,6,7,8-HpCDD	8216600	1.02 y	35:32	1.0341	10.00	n
Total HpCDD	-	- n	-	1.0341	10.00	n
13C-OCDD	117016000	0.90 y	38:02	0.4903	200.00	n
OCDF	16264550	0.91 y	38:09	1.3899	20.00	n
OCDD	13337580	0.89 y	38:03	1.1398	20.00	n

Run #3 Filename 12AP104D5 S: 2 I: 1
 Acquired: 12-APR-10 09:14:17 Processed: 12-APR-10 13:15:06
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5

Comments:

Sample text: ST0412 :CS-3 10DXN111

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	64371200	0.84 y	19:40	-	100.00	n
13C-2,3,7,8-TCDF	102873500	0.76 y	19:05	1.5981	100.00	n
2,3,7,8-TCDF	10115650	0.82 y	19:06	0.9833	10.00	n
Total TCDF	-	- n	-	0.9833	10.00	n
13C-2,3,7,8-TCDD	61271500	0.83 y	19:53	0.9518	100.00	n
2,3,7,8-TCDD	6357860	0.79 y	19:54	1.0377	10.00	n
Total TCDD	-	- n	-	1.0377	10.00	n
37Cl-2,3,7,8-TCDD	13876260	1.00 y	19:54	2.1557	10.00	n
13C-1,2,3,7,8-PeCDF	65259400	1.55 y	24:49	1.0138	100.00	n
1,2,3,7,8-PeCDF	35414800	1.47 y	24:50	1.0854	50.00	n
2,3,4,7,8-PeCDF	33672100	1.50 y	26:22	1.0319	50.00	n
Total F2 PeCDF	-	- n	-	1.0587	100.00	n
Total F1 PeCDF	-	- n	-	1.0587	100.00	n
13C-1,2,3,7,8-PeCDD	39998300	1.51 y	27:10	0.6214	100.00	n
1,2,3,7,8-PeCDD	20706690	1.56 y	27:12	1.0354	50.00	n
Total PeCDD	-	- n	-	1.0354	50.00	n
13C-1,2,3,7,8,9-HxCDD	43950100	1.30 y	33:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	47581500	0.51 y	32:03	1.0826	100.00	n
1,2,3,4,7,8-HxCDF	29775400	1.17 y	32:04	1.2516	50.00	n
1,2,3,6,7,8-HxCDF	34813100	1.18 y	32:11	1.4633	50.00	n
2,3,4,6,7,8-HxCDF	30804200	1.18 y	32:43	1.2948	50.00	n
1,2,3,7,8,9-HxCDF	27436400	1.20 y	33:22	1.1532	50.00	n
Total HxCDF	-	- n	-	1.2907	200.00	n
13C-1,2,3,6,7,8-HxCDD	37776400	1.31 y	32:56	0.8595	100.00	n
1,2,3,4,7,8-HxCDD	19591860	1.40 y	32:52	1.0373	50.00	n
1,2,3,6,7,8-HxCDD	22495200	1.13 y	32:57	1.1910	50.00	n
1,2,3,7,8,9-HxCDD	23103700	1.25 y	33:12	1.2232	50.00	n
Total HxCDD	-	- n	-	1.1505	150.00	n
13C-1,2,3,4,6,7,8-HpCDF	41837400	0.43 y	34:42	0.9519	100.00	n
1,2,3,4,6,7,8-HpCDF	29031500	0.97 y	34:42	1.3878	50.00	n
1,2,3,4,7,8,9-HpCDF	22825800	0.97 y	35:50	1.0912	50.00	n
Total HpCDF	-	- n	-	1.2395	100.00	n
13C-1,2,3,4,6,7,8-HpCDD	33979600	1.08 y	35:31	0.7731	100.00	n
1,2,3,4,6,7,8-HpCDD	18775170	1.01 y	35:31	1.1051	50.00	n
Total HpCDD	-	- n	-	1.1051	50.00	n
13C-OCDD	50907600	0.91 y	38:02	0.5792	200.00	n
OCDF	38455800	0.91 y	38:09	1.5108	100.00	n
OCDD	31406500	0.90 y	38:02	1.2339	100.00	n

Run #4 Filename 12AP104D5 S: 6 I: 1
Acquired: 12-APR-10 12:16:51 Processed: 12-APR-10 13:15:06
Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5

Comments:

Sample text: ST0412D :CS-4 09DXN426

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	155249200	0.82 y	19:40	-	100.00	n
13C-2,3,7,8-TCDF	213728200	0.78 y	19:04	1.3767	100.00	n
2,3,7,8-TCDF	81152300	0.80 y	19:05	0.9492	40.00	n
Total TCDF	-	- n	-	0.9492	40.00	n
13C-2,3,7,8-TCDD	140634600	0.81 y	19:53	0.9059	100.00	n
2,3,7,8-TCDD	58567300	0.76 y	19:54	1.0411	40.00	n
Total TCDD	-	- n	-	1.0411	40.00	n
37Cl-2,3,7,8-TCDD	132968000	1.00 y	19:54	2.1412	40.00	n
13C-1,2,3,7,8-PeCDF	152320900	1.55 y	24:49	0.9811	100.00	n
1,2,3,7,8-PeCDF	330717000	1.52 y	24:50	1.0856	200.00	n
2,3,4,7,8-PeCDF	311957000	1.53 y	26:21	1.0240	200.00	n
Total F2 PeCDF	-	- n	-	1.0548	400.00	n
Total F1 PeCDF	-	- n	-	1.0548	400.00	n
13C-1,2,3,7,8-PeCDD	98815100	1.51 y	27:10	0.6365	100.00	n
1,2,3,7,8-PeCDD	200073100	1.56 y	27:12	1.0124	200.00	n
Total PeCDD	-	- n	-	1.0124	200.00	n
13C-1,2,3,7,8,9-HxCDD	122882600	1.29 y	33:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	112493800	0.51 y	32:02	0.9155	100.00	n
1,2,3,4,7,8-HxCDF	286893000	1.17 y	32:03	1.2752	200.00	n
1,2,3,6,7,8-HxCDF	309941000	1.20 y	32:10	1.3776	200.00	n
2,3,4,6,7,8-HxCDF	284576000	1.18 y	32:44	1.2649	200.00	n
1,2,3,7,8,9-HxCDF	263425000	1.19 y	33:22	1.1708	200.00	n
Total HxCDF	-	- n	-	1.2721	800.00	n
13C-1,2,3,6,7,8-HxCDD	88870500	1.27 y	32:55	0.7232	100.00	n
1,2,3,4,7,8-HxCDD	190818600	1.23 y	32:51	1.0736	200.00	n
1,2,3,6,7,8-HxCDD	205324800	1.26 y	32:56	1.1552	200.00	n
1,2,3,7,8,9-HxCDD	238684000	1.24 y	33:12	1.3429	200.00	n
Total HxCDD	-	- n	-	1.1905	600.00	n
13C-1,2,3,4,6,7,8-HpCDF	97521600	0.43 y	34:41	0.7936	100.00	n
1,2,3,4,6,7,8-HpCDF	264362000	0.96 y	34:42	1.3554	200.00	n
1,2,3,4,7,8,9-HpCDF	206496000	0.97 y	35:50	1.0587	200.00	n
Total HpCDF	-	- n	-	1.2071	400.00	n
13C-1,2,3,4,6,7,8-HpCDD	78184500	1.04 y	35:30	0.6363	100.00	n
1,2,3,4,6,7,8-HpCDD	173361700	1.02 y	35:31	1.1087	200.00	n
Total HpCDD	-	- n	-	1.1087	200.00	n
13C-OCDD	120964400	0.91 y	38:01	0.4922	200.00	n
OCDF	363722000	0.91 y	38:08	1.5034	400.00	n
OCDD	291736000	0.90 y	38:02	1.2059	400.00	n

Run #5 Filename 12AP104D5 S: 5 I: 1
 Acquired: 12-APR-10 11:32:49 Processed: 12-APR-10 13:15:07
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5
 Comments:

Sample text: ST0412C :CS-5 09DXN456

Name	Resp	RA	RT	RRF		Mod?
13C-1,2,3,4-TCDD	133027400	0.81 y	19:40	-	100.00	n
13C-2,3,7,8-TCDF	214932900	0.77 y	19:04	1.6157	100.00	n
2,3,7,8-TCDF	420869000	0.81 y	19:05	0.9791	200.00	n
Total TCDF	-	- n	-	0.9791	200.00	n
13C-2,3,7,8-TCDD	144056100	0.81 y	19:52	1.0829	100.00	n
2,3,7,8-TCDD	302482000	0.77 y	19:54	1.0499	200.00	n
Total TCDD	-	- n	-	1.0499	200.00	n
37Cl-2,3,7,8-TCDD	681830000	1.00 y	19:54	2.5627	200.00	n
13C-1,2,3,7,8-PeCDF	174822600	1.57 y	24:49	1.3142	100.00	n
1,2,3,7,8-PeCDF	1854040000	1.52 y	24:50	1.0605	1000.00	n
2,3,4,7,8-PeCDF	1680778000	1.50 y	26:21	0.9614	1000.00	n
Total F2 PeCDF	-	- n	-	1.0110	2000.00	n
Total F1 PeCDF	-	- n	-	1.0110	2000.00	n
13C-1,2,3,7,8-PeCDD	111282000	1.52 y	27:09	0.8365	100.00	n
1,2,3,7,8-PeCDD	1107251000	1.56 y	27:12	0.9950	1000.00	n
Total PeCDD	-	- n	-	0.9950	1000.00	n
13C-1,2,3,7,8,9-HxCDD	124536600	1.30 y	33:11	-	100.00	n
13C-1,2,3,4,7,8-HxCDF	132485800	0.52 y	32:03	1.0638	100.00	n
1,2,3,4,7,8-HxCDF	1629345000	1.17 y	32:04	1.2298	1000.00	n
1,2,3,6,7,8-HxCDF	1761404000	1.19 y	32:10	1.3295	1000.00	n
2,3,4,6,7,8-HxCDF	1634313000	1.18 y	32:43	1.2336	1000.00	n
1,2,3,7,8,9-HxCDF	1458311000	1.19 y	33:21	1.1007	1000.00	n
Total HxCDF	-	- n	-	1.2234	4000.00	n
13C-1,2,3,6,7,8-HxCDD	107863400	1.32 y	32:55	0.8661	100.00	n
1,2,3,4,7,8-HxCDD	1053487000	1.22 y	32:51	0.9767	1000.00	n
1,2,3,6,7,8-HxCDD	1196229000	1.25 y	32:56	1.1090	1000.00	n
1,2,3,7,8,9-HxCDD	1280853000	1.24 y	33:12	1.1875	1000.00	n
Total HxCDD	-	- n	-	1.0911	3000.00	n
13C-1,2,3,4,6,7,8-HpCDF	109839300	0.44 y	34:41	0.8820	100.00	n
1,2,3,4,6,7,8-HpCDF	1454217000	0.96 y	34:42	1.3239	1000.00	n
1,2,3,4,7,8,9-HpCDF	1128812000	0.96 y	35:50	1.0277	1000.00	n
Total HpCDF	-	- n	-	1.1758	2000.00	n
13C-1,2,3,4,6,7,8-HpCDD	88075100	1.03 y	35:30	0.7072	100.00	n
1,2,3,4,6,7,8-HpCDD	954247000	1.02 y	35:31	1.0834	1000.00	n
Total HpCDD	-	- n	-	1.0834	1000.00	n
13C-OCDD	140888400	0.91 y	38:02	0.5657	200.00	n
OCDF	2112770000	0.91 y	38:09	1.4996	2000.00	n
OCDD	1652111000	0.90 y	38:03	1.1726	2000.00	n

Data file	Smp	Work Order	Sample ID	FV-uL	Method/Matrix	Box	Size	U
12AP104D5	1	CP0412	DB-5 CPSM 3732-04				1.00000	
12AP104D5	2	ST0412	CS-3 10DXN111				1.00000	
12AP104D5	3	ST0412A	CS-2 09DXN423				1.00000	
12AP104D5	4	ST0412B	CS-1 09DXN422				1.00000	
12AP104D5	5	ST0412C	CS-5 09DXN456				1.00000	
12AP104D5	6	ST0412D	CS-4 09DXN426				1.00000	
12AP104D5	7	ST0412E	2nd Source 09DXN449				1.00000	
12AP104D5	8	ST0412F	CS-3 10DXN111				1.00000	
12AP104D5	9	CP0412A	DB-5 CPSM 3732-04				1.00000	
12AP104D5	10	SB0412	Solvent Blank C-14				1.00000	
12AP104D5	11	LXH9E-1-AA	G0D050000-198B	20	8290A/WATER	V-1	1.00000	L
12AP104D5	12	LXH9E-1-AC	G0D050000-198C	20	8290A/WATER		1.00000	L
12AP104D5	13	LXFLQ-1-AA	C0D010564-13	20	8290A/WATER		1.04090	L
12AP104D5	14	LXMQP-1-AC	G0D070000-424C	20	8290A/SOLID		10.00000	g
12AP104D5	15	LXMQP-1-AA	G0D070000-424B	20	8290A/SOLID		10.00000	g
12AP104D5	16	LXFKR-1-AA	C0D010564-1	20	8290A/SOLID		10.96000	g
12AP104D5	17	LXFKX-1-AA	C0D010564-2	20	8290A/SOLID		10.00000	g
12AP104D5	18	LXFK2-1-AA	C0D010564-3	20	8290A/SOLID		10.45000	g
12AP104D5	19	LXFK7-1-AA	C0D010564-4	20	8290A/SOLID		10.83000	g
12AP104D5	20	LXFLA-1-AA	C0D010564-5	20	8290A/SOLID		10.37000	g
12AP104D5	21	LXFLC-1-AA	C0D010564-6	20	8290A/SOLID		10.75000	g
12AP104D5	22	LXFLD-1-AA	C0D010564-7	20	8290A/SOLID		10.36000	g
12AP104D5	23	LXFLD-1-AD	C0D010564-7S	20	8290A/SOLID		10.12000	g
12AP104D5	24	LXFLD-1-AE	C0D010564-7D	20	8290A/SOLID		10.69000	g
12AP104D5	25	SB0412A	Solvent Blank C-14				1.00000	
12AP104D5	26	ST0412G	CS-3 10DXN111				1.00000	
12AP104D5	27	CP0412B	DB-5 CPSM 3732-04				1.00000	
12AP104D5	28	SB0412B	Solvent Blank C-14				1.00000	
12AP104D5	29	LXFLE-1-AA	C0D010564-8	20	8290A/SOLID	V-1	10.54000	g
12AP104D5	30	LXFLF-1-AA	C0D010564-9	20	8290A/SOLID		10.12000	g
12AP104D5	31	LXFLG-1-AA	C0D010564-10	20	8290A/SOLID		10.98000	g
12AP104D5	32	LXFLK-1-AA	C0D010564-11	20	8290A/SOLID		10.17000	g
12AP104D5	33	LXFLM-1-AA	C0D010564-12	20	8290A/SOLID		10.94000	g
12AP104D5	34	LXFK2-1-AA	C0D010564-3 (20x)	20	8290A/SOLID		10.45000	g
12AP104D5	35	LXFLF-1-AA	C0D010564-9 RI	20	8290A/SOLID		10.12000	g
12AP104D5	36	LXFLG-1-AA	C0D010564-10 (20x)	20	8290A/SOLID		10.98000	g
12AP104D5	37	LXFLC-1-AA	C0D010564-6 (50x)	20	8290A/SOLID		10.75000	g
12AP104D5	38	LXFLK-1-AA	C0D010564-11 (50x)	20	8290A/SOLID		10.17000	g
12AP104D5	39	LXFLE-1-AA	C0D010564-8 (100x)	20	8290A/SOLID		10.54000	g
12AP104D5	40	LXFLD-1-AA	C0D010564-7 (100x)	20	8290A/SOLID		10.36000	g
12AP104D5	41	LXFLM-1-AA	C0D010564-12 (100x)	20	8290A/SOLID		10.94000	g
12AP104D5	42	LXFLE-1-AA	C0D010564-8 (100x) RI	20	8290A/SOLID		10.54000	g
12AP104D5	43	SB0412C	Solvent Blank C-14				1.00000	
12AP104D5	44	SB0412D	Solvent Blank C-14				1.00000	
12AP104D5	45	ST0412H	CS-3 10DXN111				1.00000	
12AP104D5	46	CP0412C	DB-5 CPSM 3732-04				1.00000	
12AP104D5	47	SB0412E	Solvent Blank C-14				1.00000	
12AP104D5	48	LXFK2-1-AA	C0D010564-3 (20x) RI	20	8290A/SOLID	V-1	10.45000	g
12AP104D5	49	LXFLG-1-AA	C0D010564-10 (20x) RI	20	8290A/SOLID		10.98000	g
12AP104D5	50	LXFLC-1-AA	C0D010564-6 (50x) RI	20	8290A/SOLID		10.75000	g
12AP104D5	51	LXFLK-1-AA	C0D010564-11 (50x) RI	20	8290A/SOLID		10.17000	g
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12AP104D5	53	ST0412I	CS-3 10DXN111				1.00000	

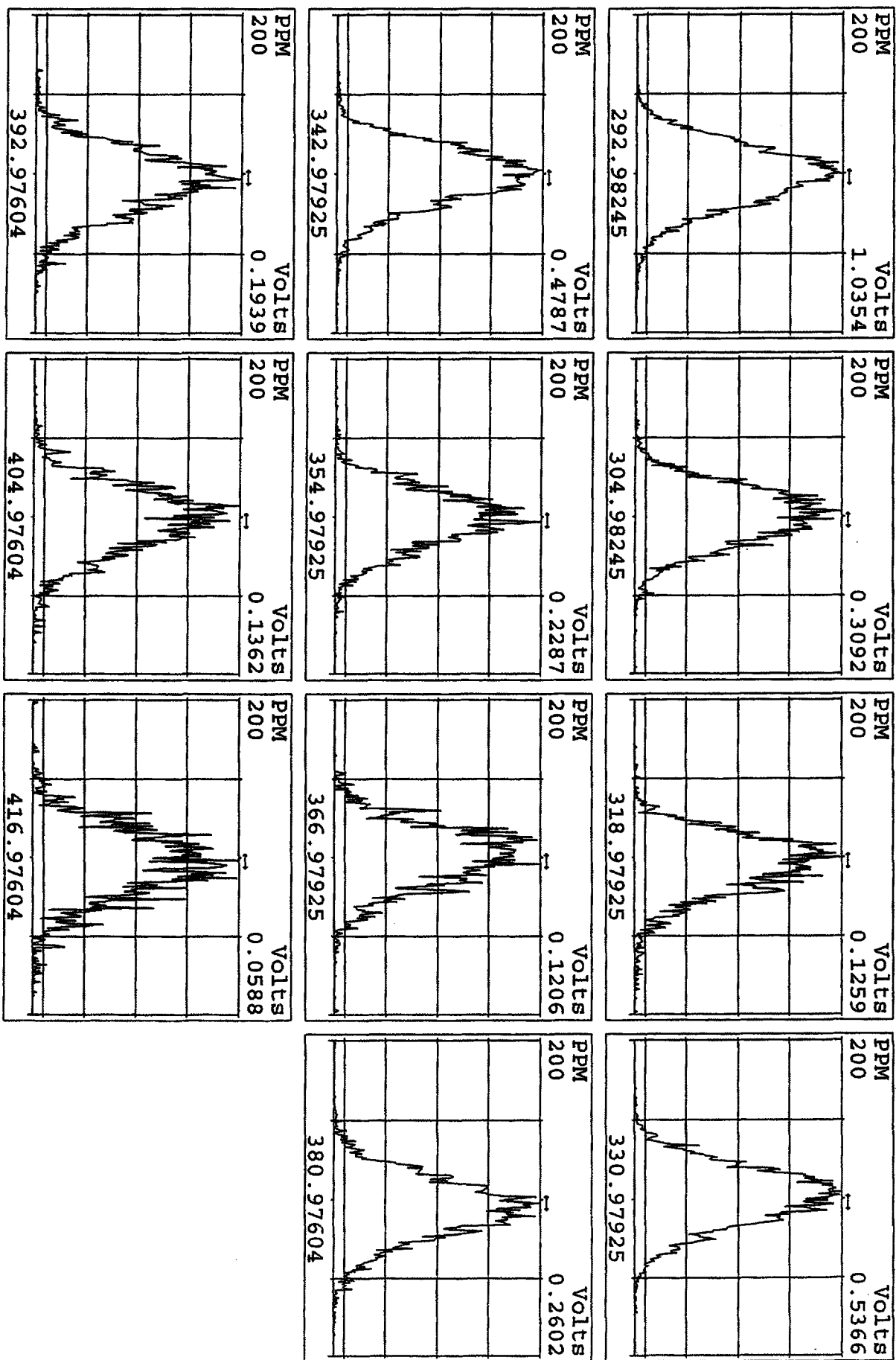
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12AP104D5 56
12AP104D5 57

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1.00000
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1.00000

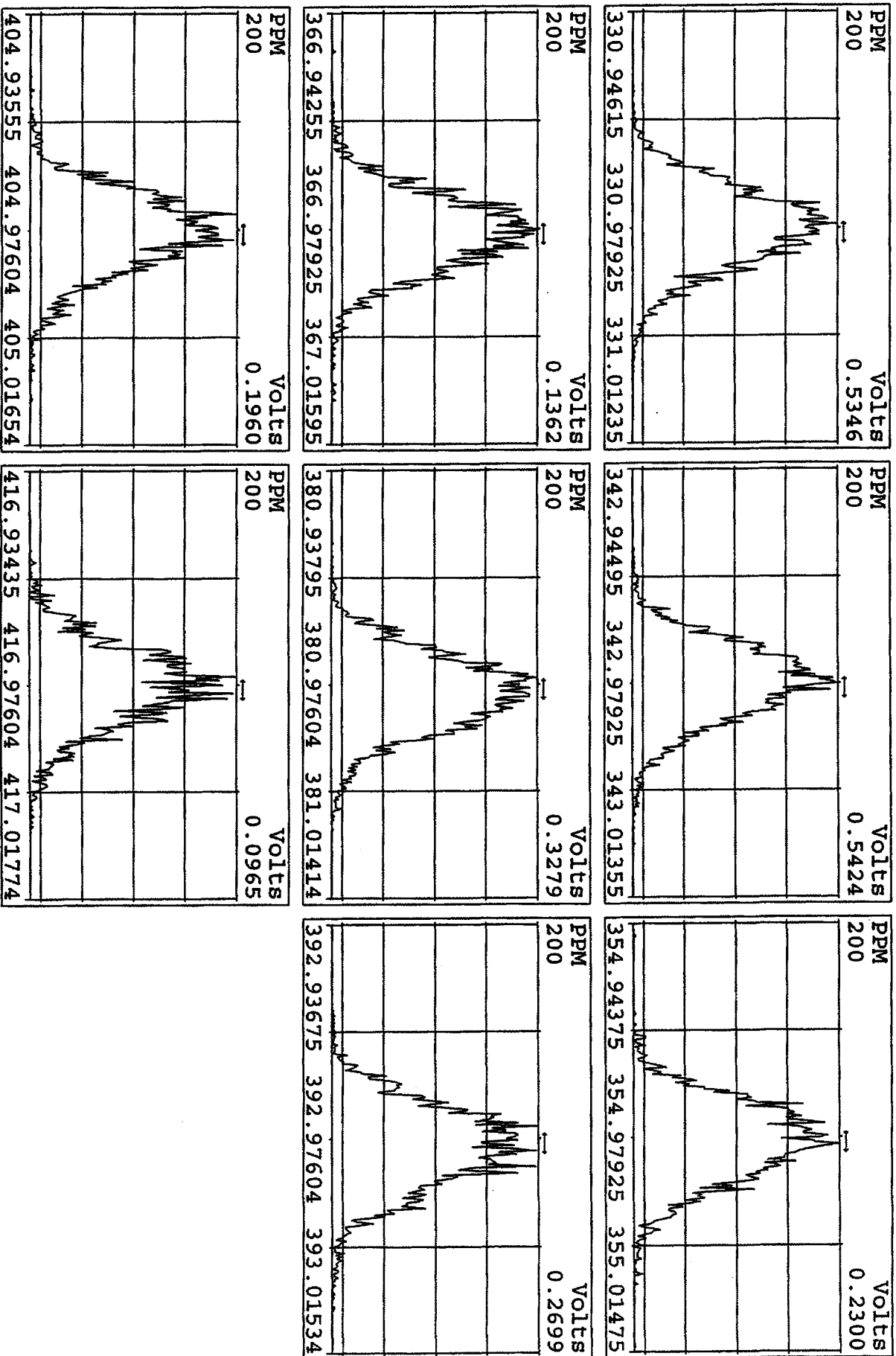
MG 04/12/10

✓ Ak 4/14/10

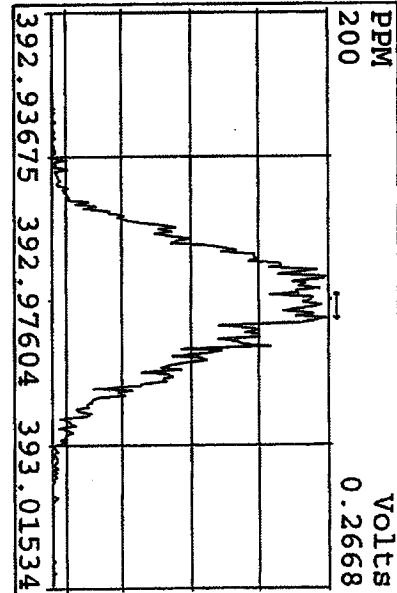
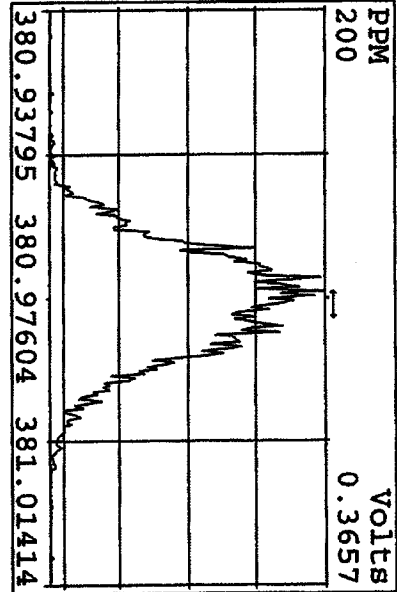
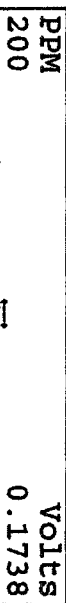
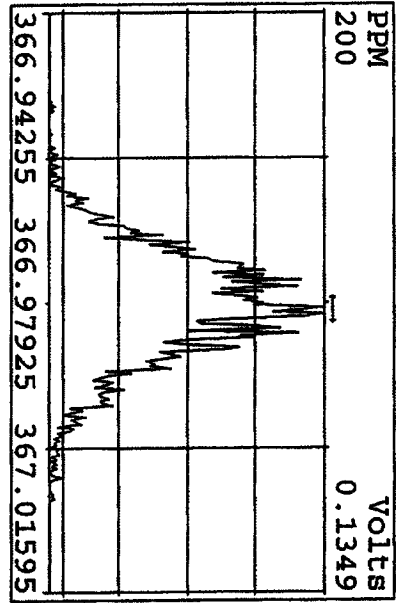
Peak Locate Examination: 12-APR-2010:08:26 File: 12AP104D5
Experiment: DIOXINRES8290A Function: 1 Reference: PFK



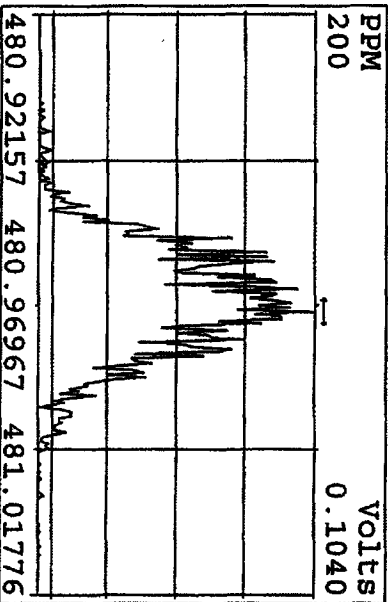
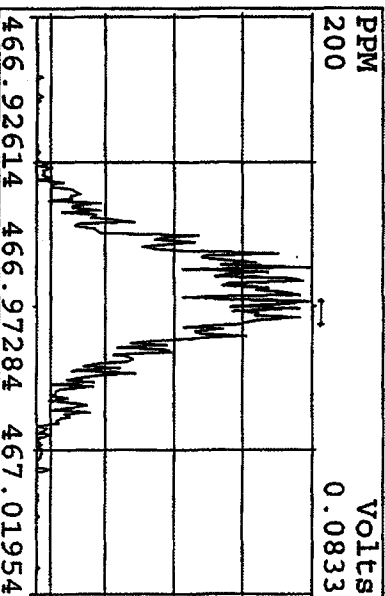
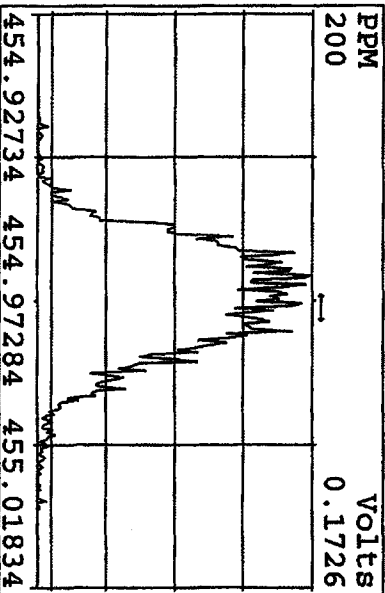
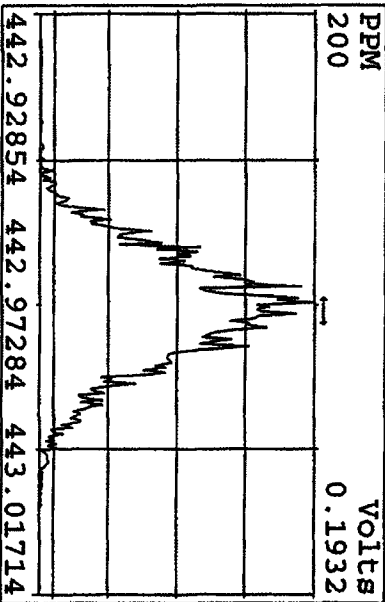
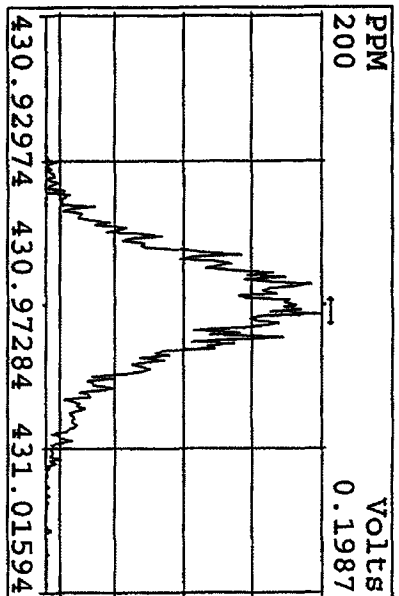
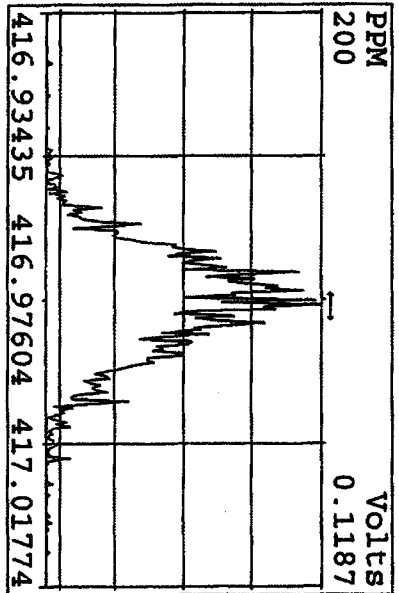
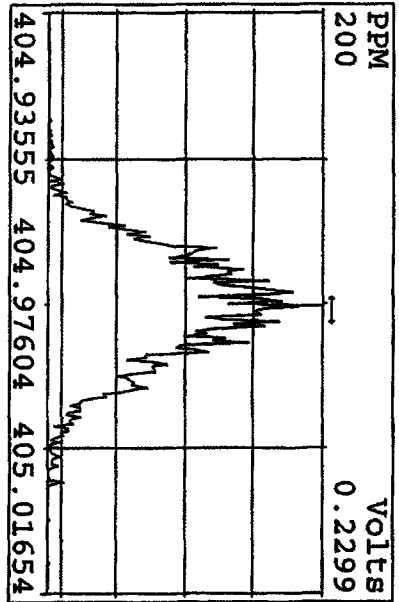
Peak Locate Examination:12-APR-2010:08:26 File:12AP104D5
Experiment:DIOXINRES8290A Function:2 Reference:PFK



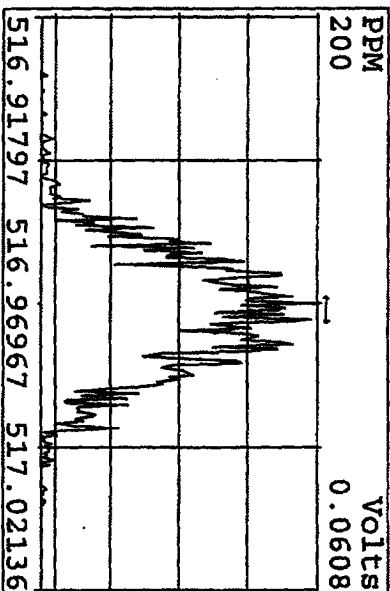
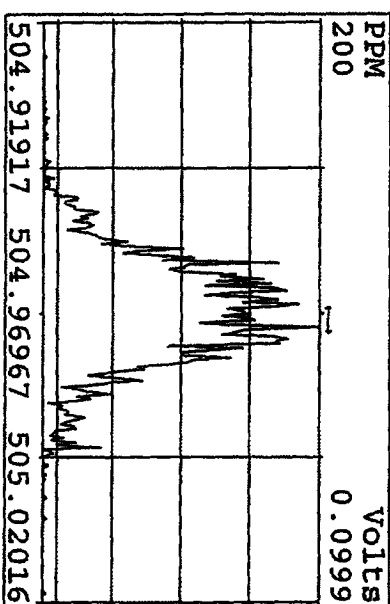
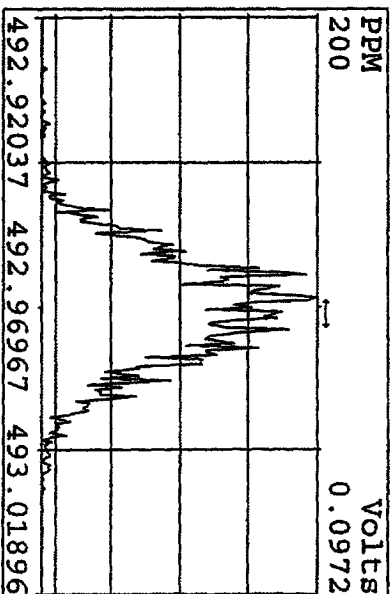
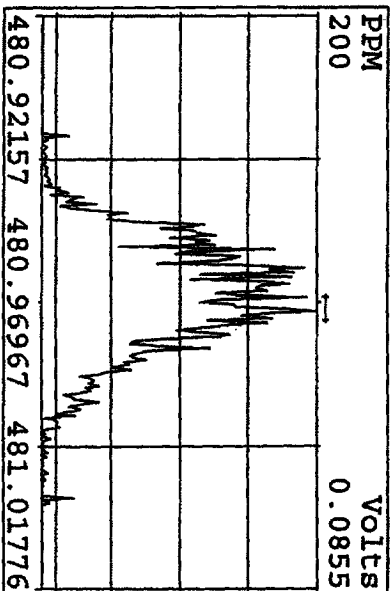
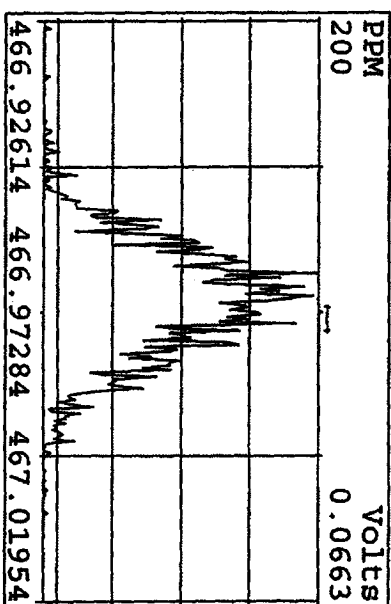
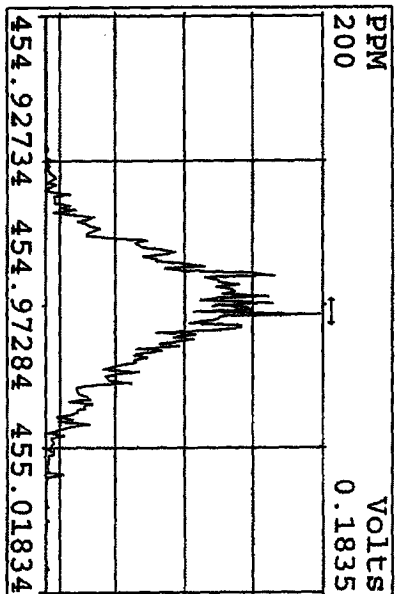
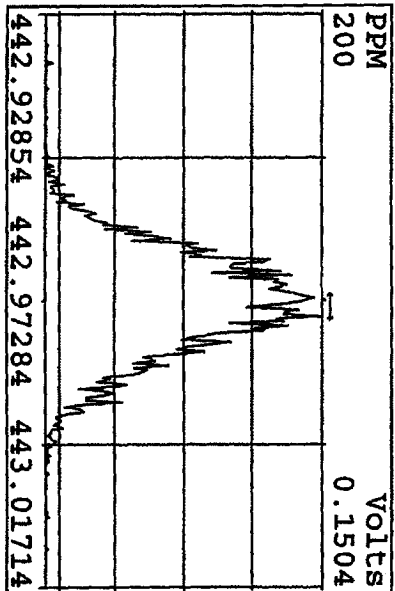
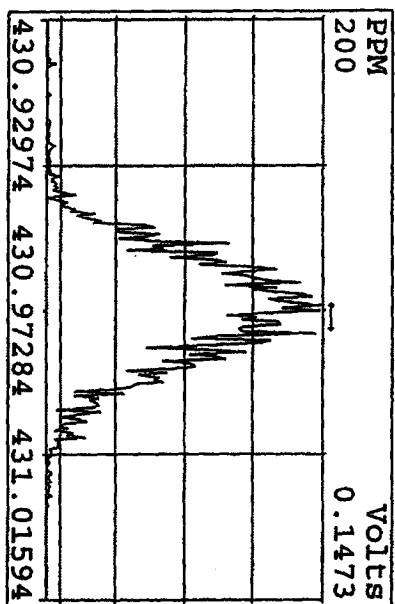
Peak Locate Examination: 12-APR-2010: 08:27 File: 12API04D5
 Experiment: DIOXINRES8290A Function: 3 Reference: PFK



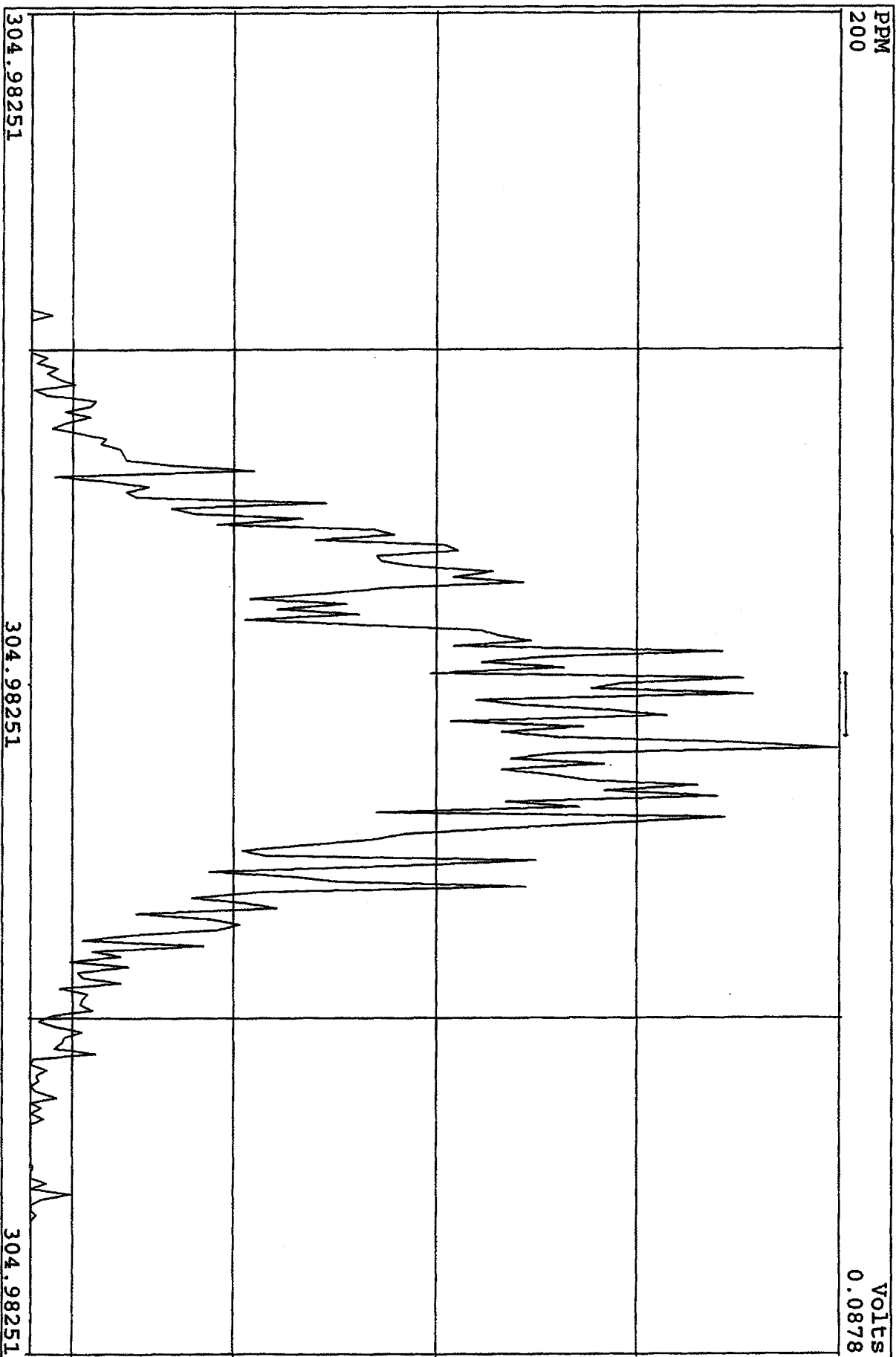
Peak Locate Examination: 12-APR-2010:08:27 File: 12AP104D5
 Experiment: DIOXINRES8290A Function: 4 Reference: PFK



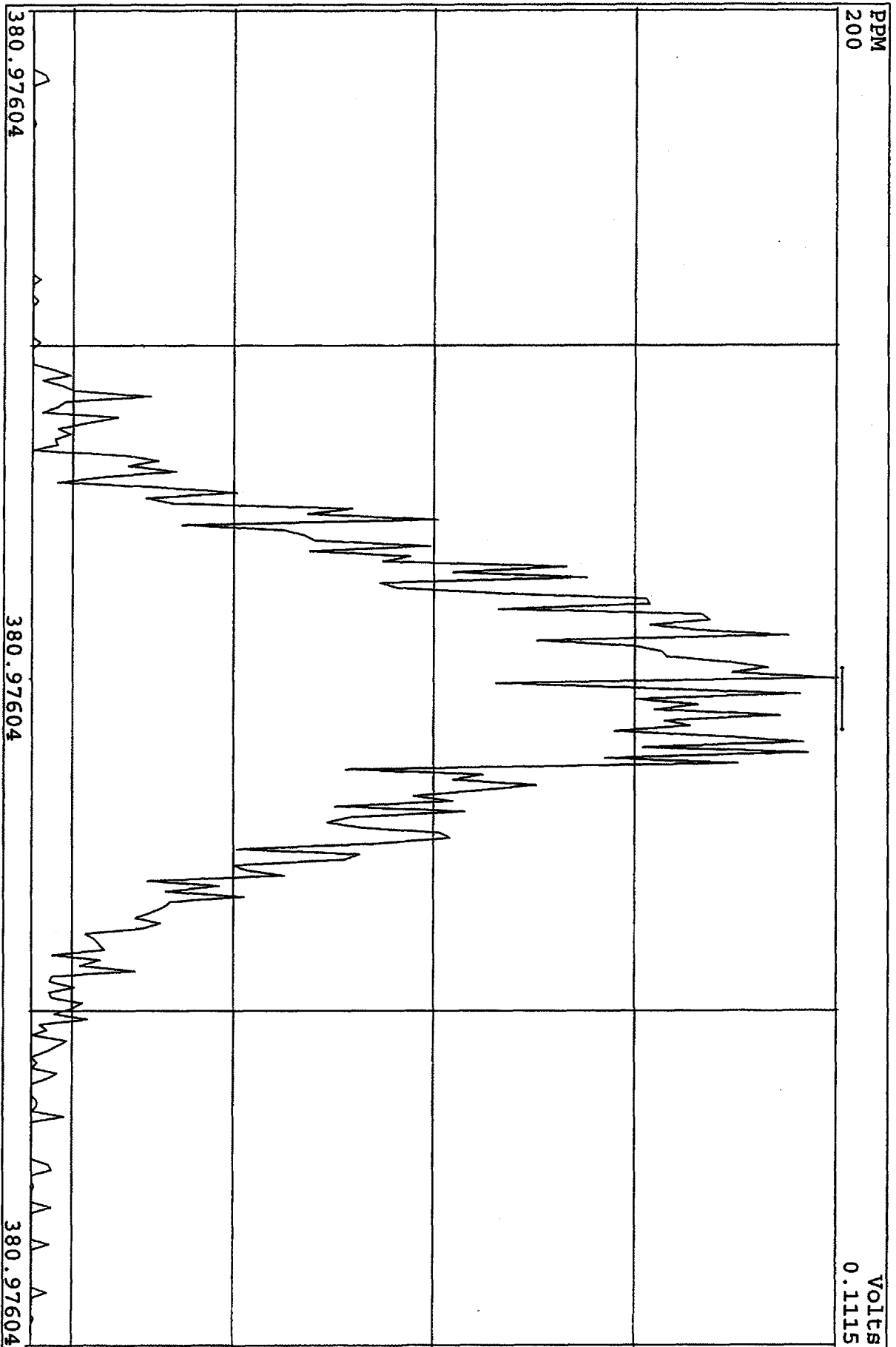
Peak Locate Examination: 12-APR-2010: 08:28 File: 12AP104DS
Experiment: DIOXINRES8290A Function: 5 Reference: PRK



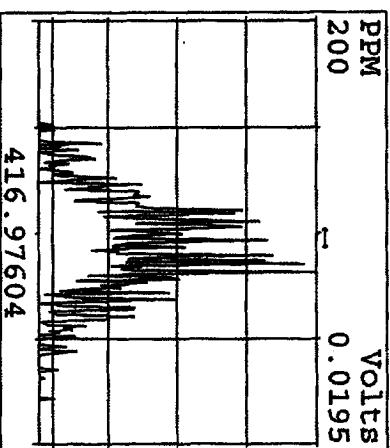
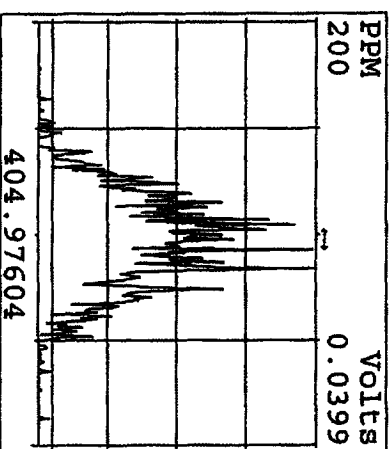
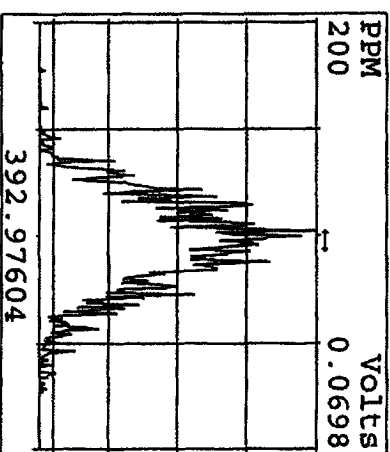
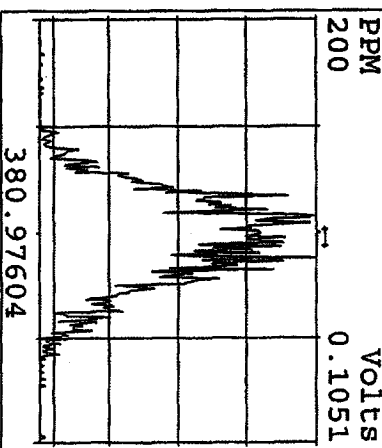
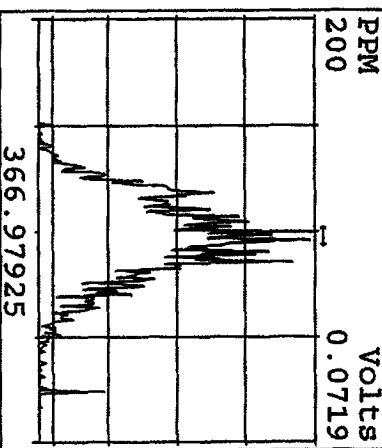
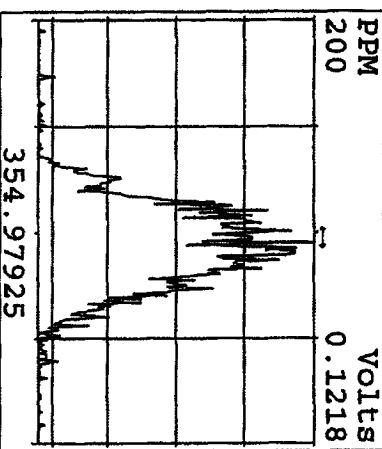
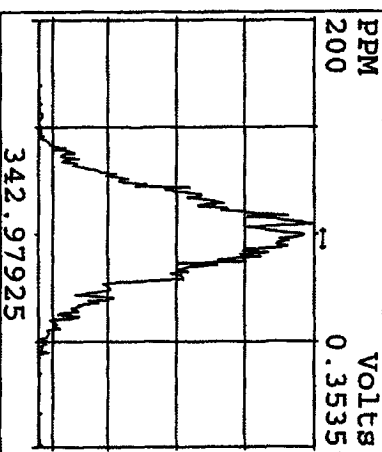
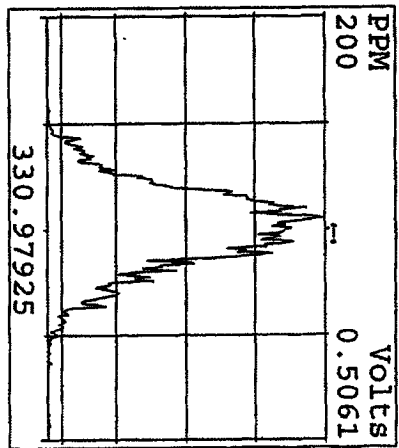
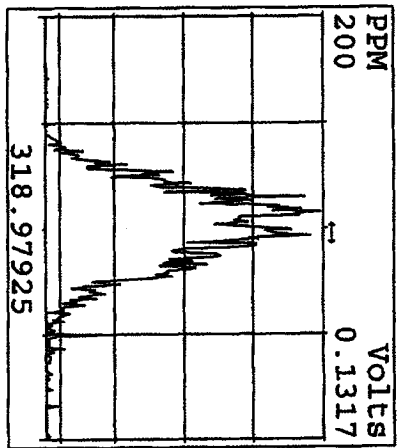
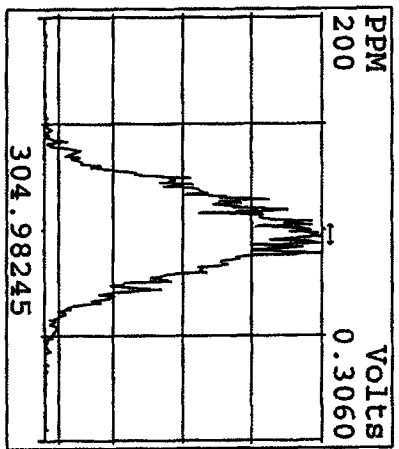
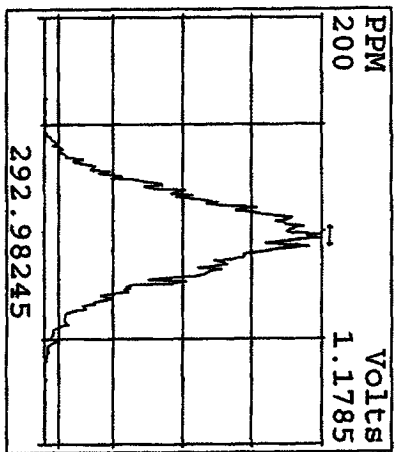
SIRIM Examination: 12-APR-2010:14:26 File: 12AP104D5
Experiment: DIOXINRES8290A Function: 7



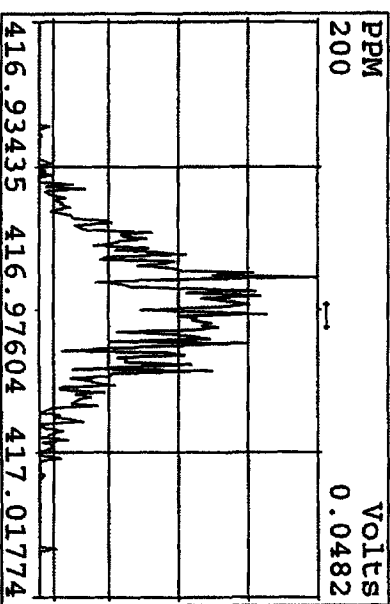
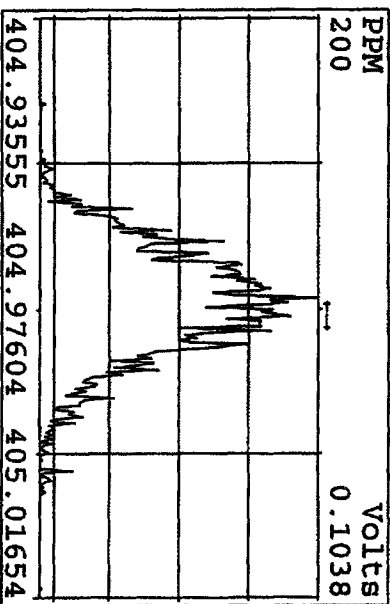
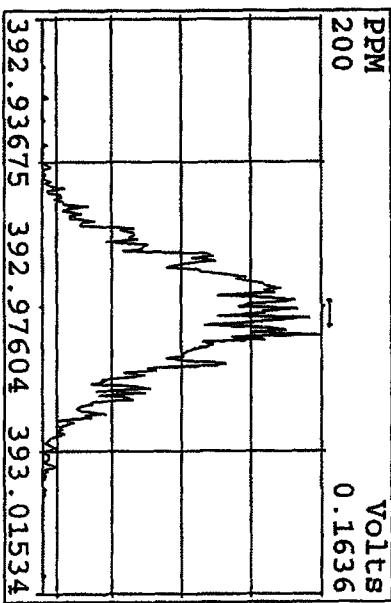
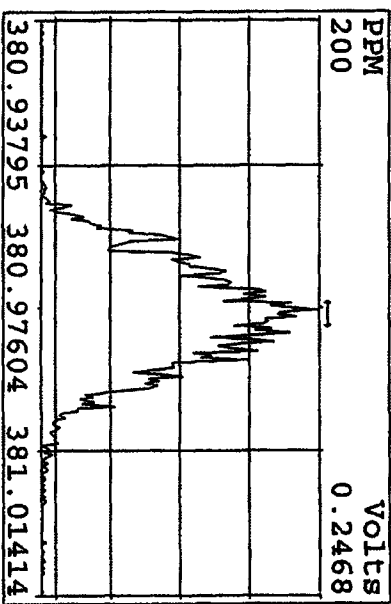
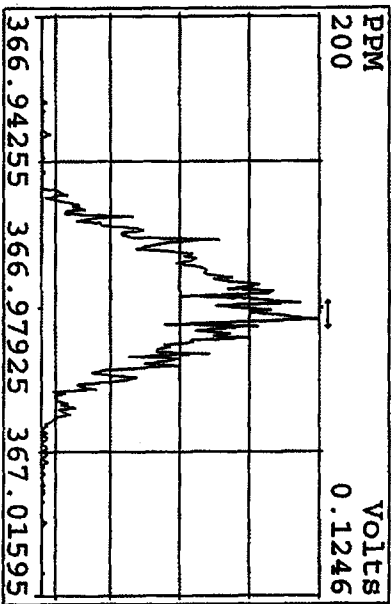
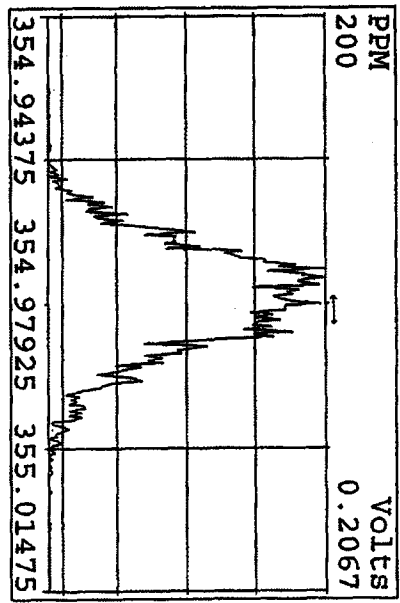
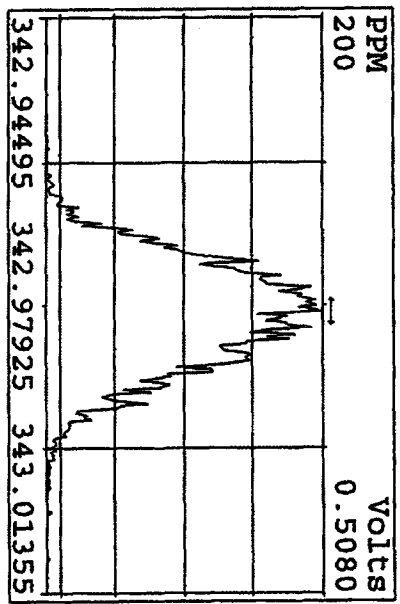
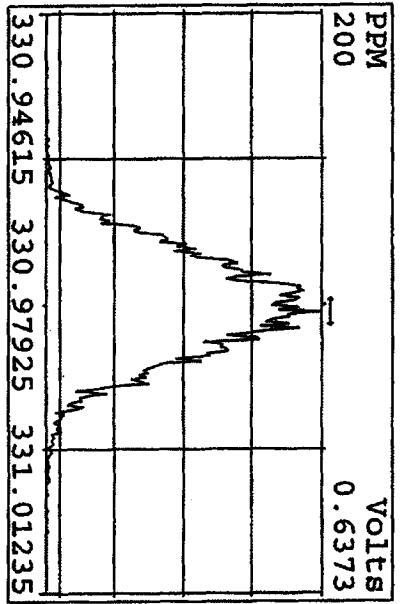
SIRIM Examination: 12-APR-2010: 14:25 File: 12AP104D5
Experiment: DIOXINRES8290A Function: 6



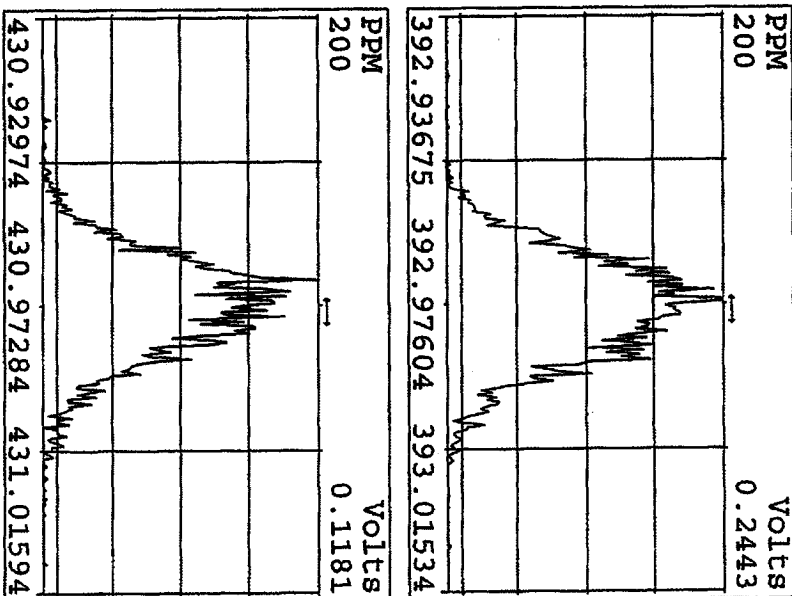
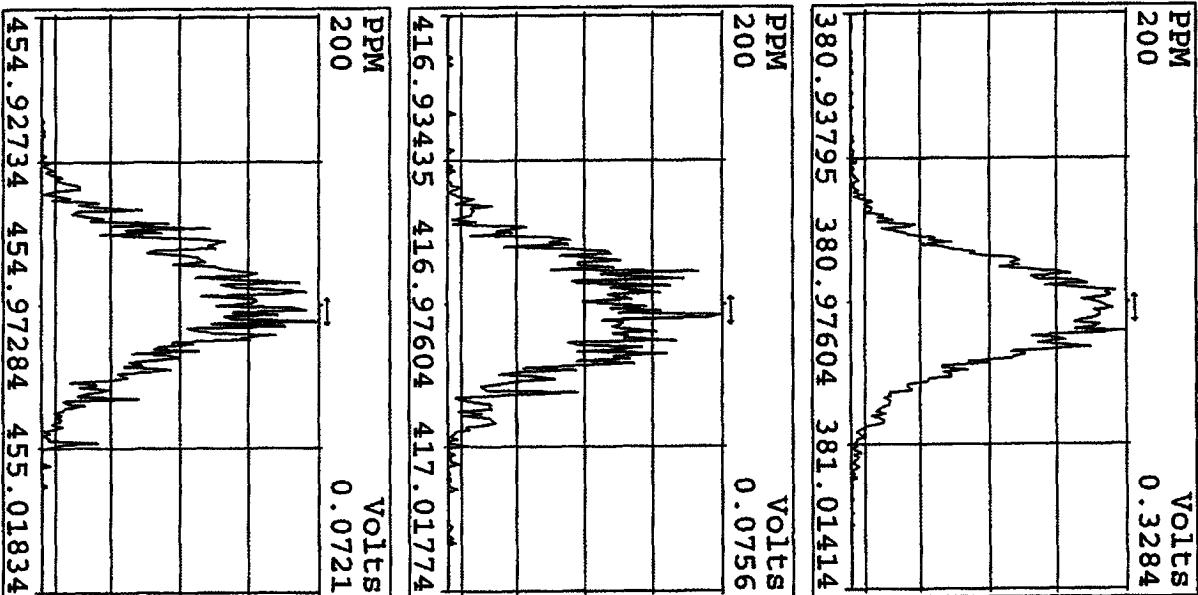
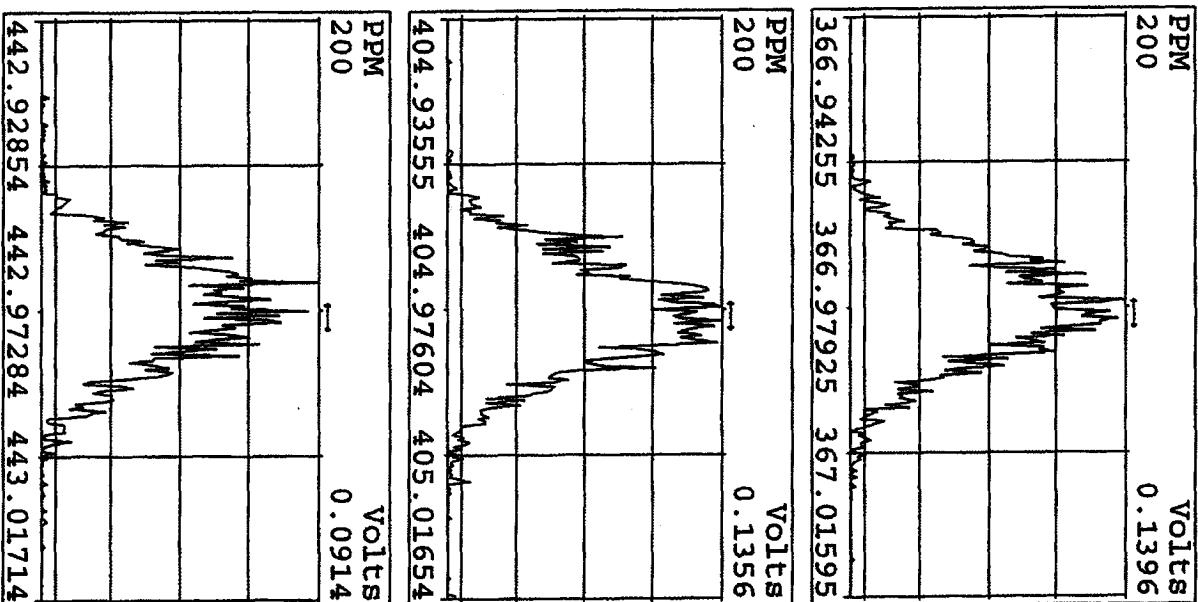
Peak Locate Examination: 14-APR-2010:00:00 File: RESCHK12AP104D5
Experiment: DIOXINRES8290A Function: 1 Reference: PFK



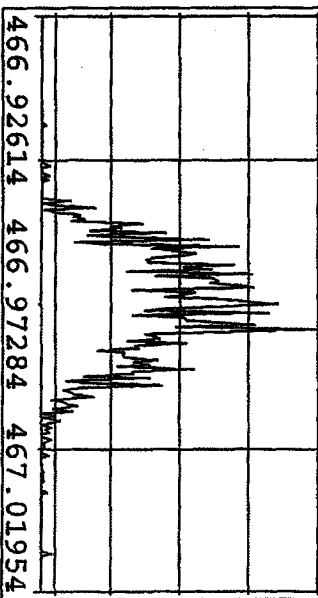
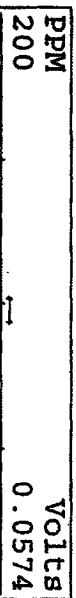
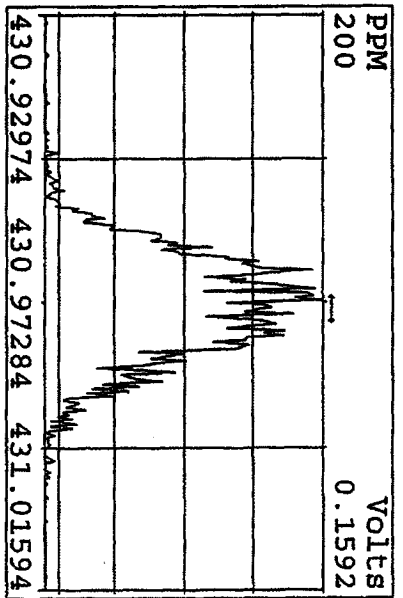
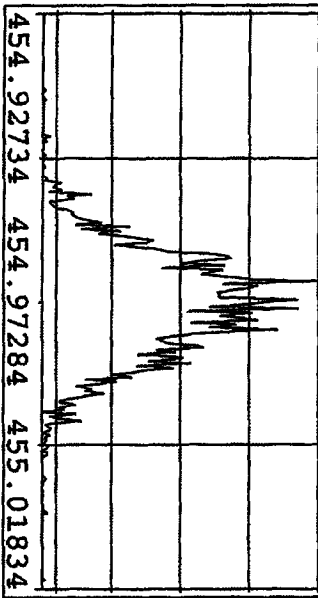
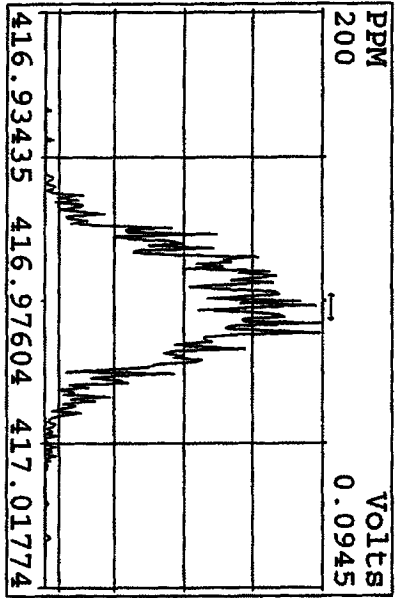
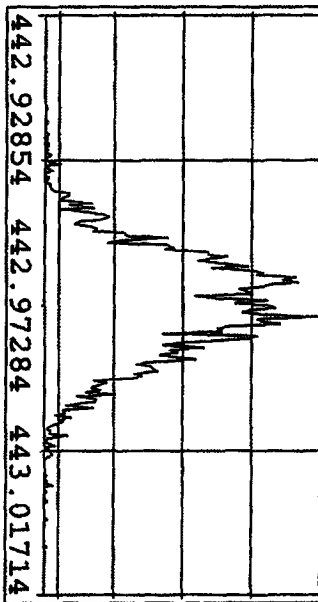
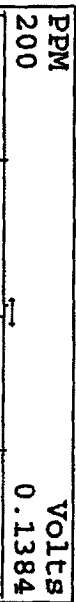
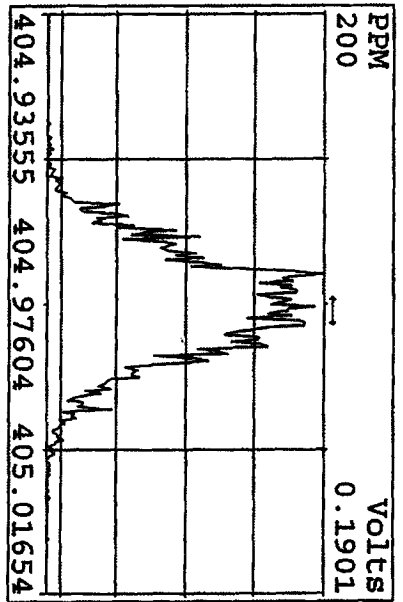
Peak Locate Examination: 14-APR-2010:00:01 File: RESCHK12AP104D5
 Experiment: DIOXINRES8290A Function: 2 Reference: PFK



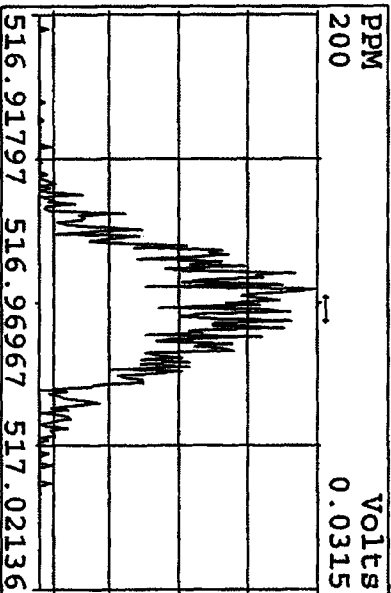
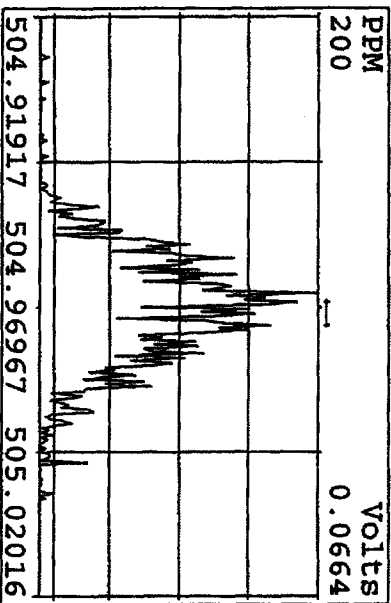
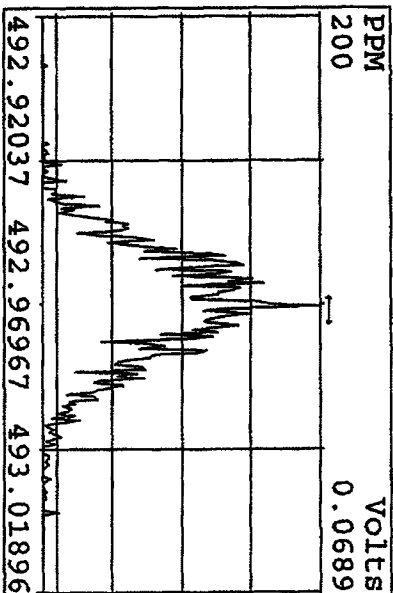
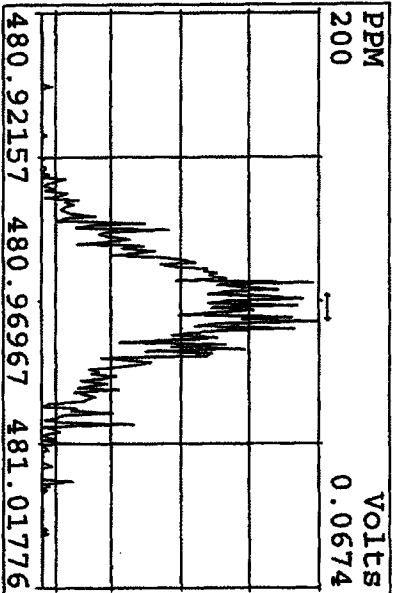
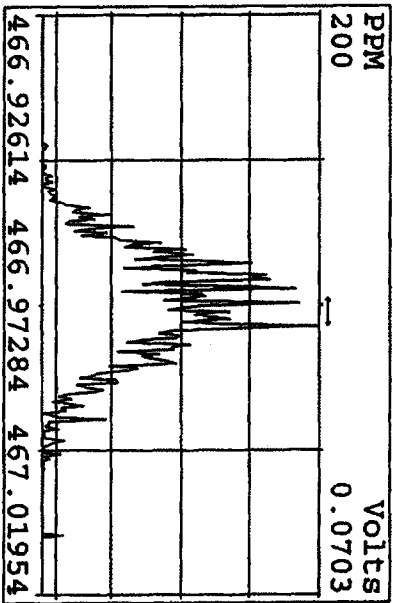
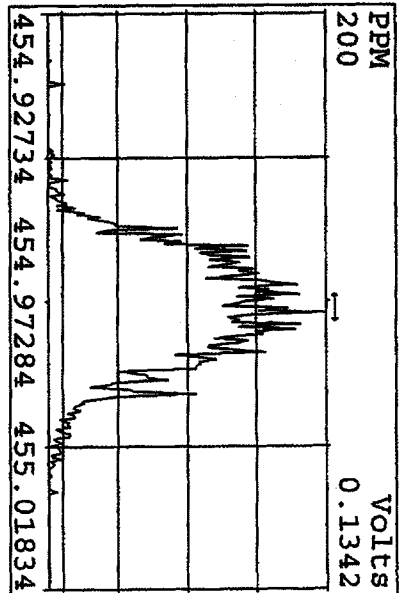
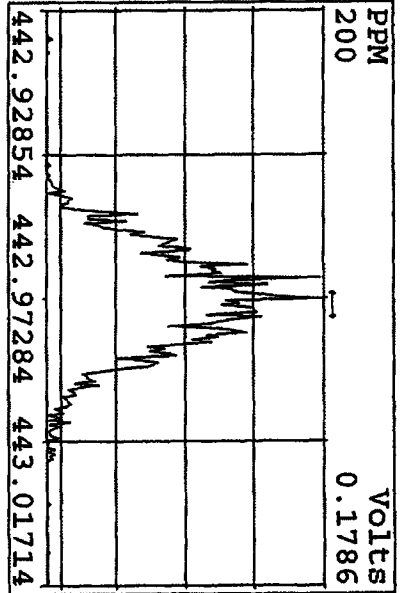
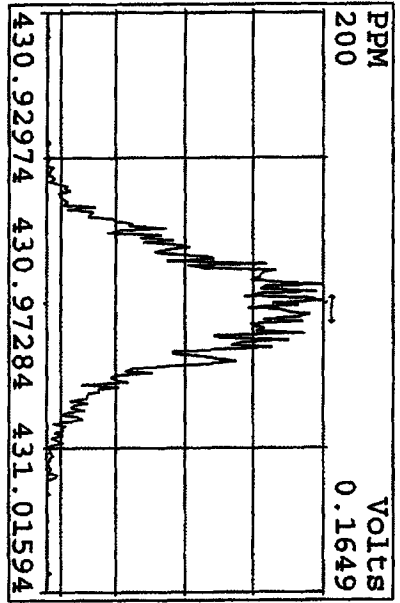
Peak Locate Examination: 14-APR-2010:00:01 File: RESCHK12AP104D5
 Experiment: DIOXINRES8290A Function: 3 Reference: PFK



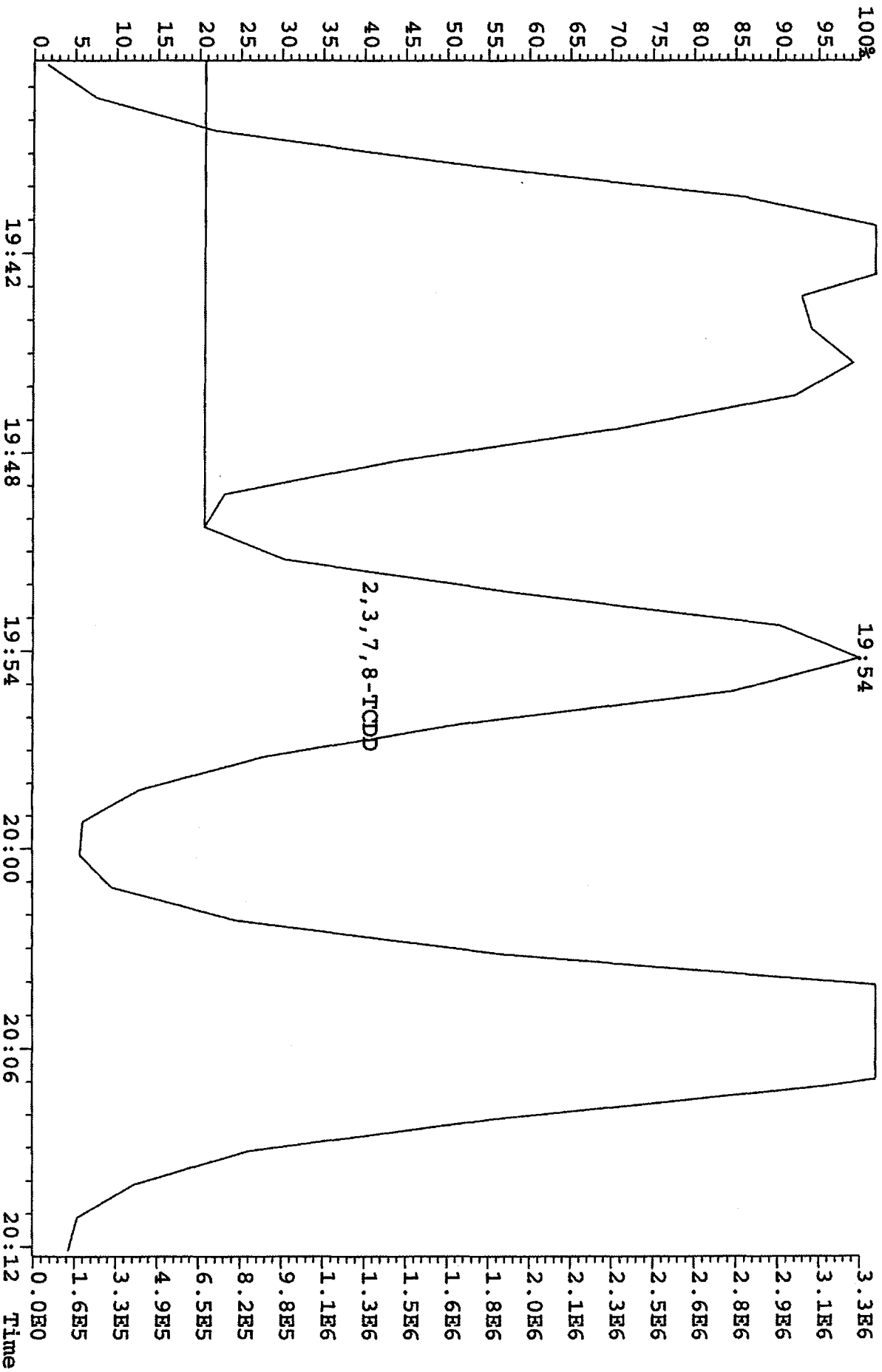
Peak Locate Examination: 14-APR-2010:00:02 File: RESCHK12API104D5
 Experiment: DIOXINRES8290A Function: 4 Reference: PKR



Peak Locate Examination: 14-APR-2010:00:03 File: RESCHK12AP104D5
 Experiment: DIOXINRES8290A Function: 5 Reference: PKK



File: 12AP104D5 #1-435 Acq: 12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaE
321.8936 BSUB(128,15,-3.0) Exp: DIOXINRES8290A Noise: 14

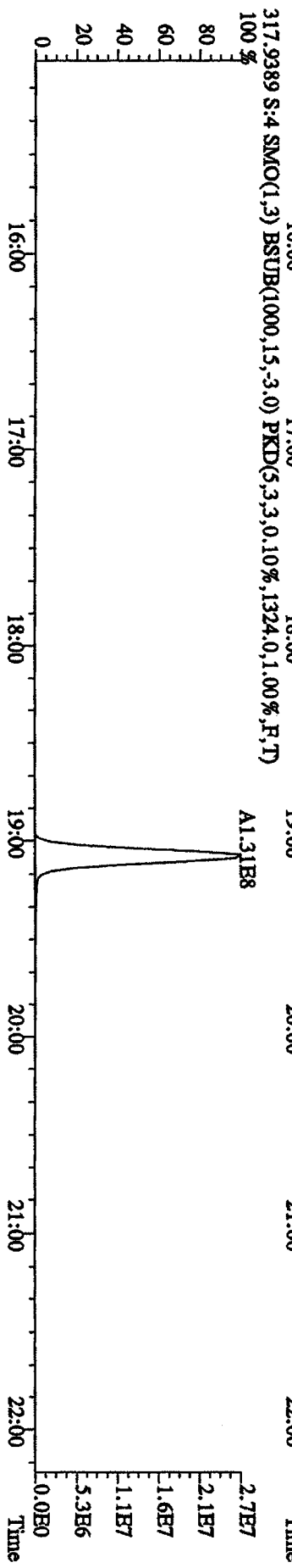
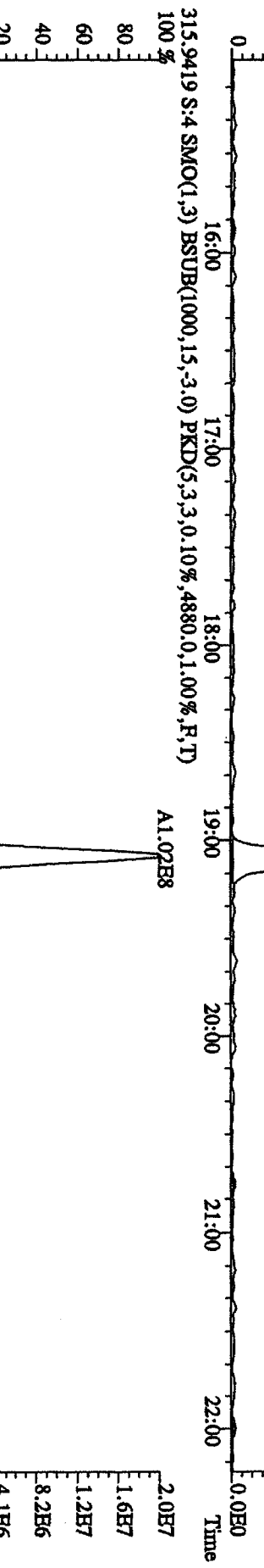
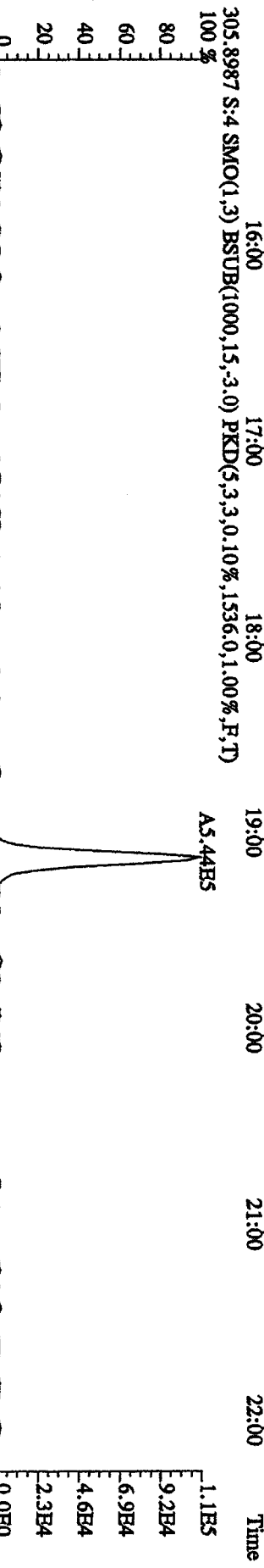
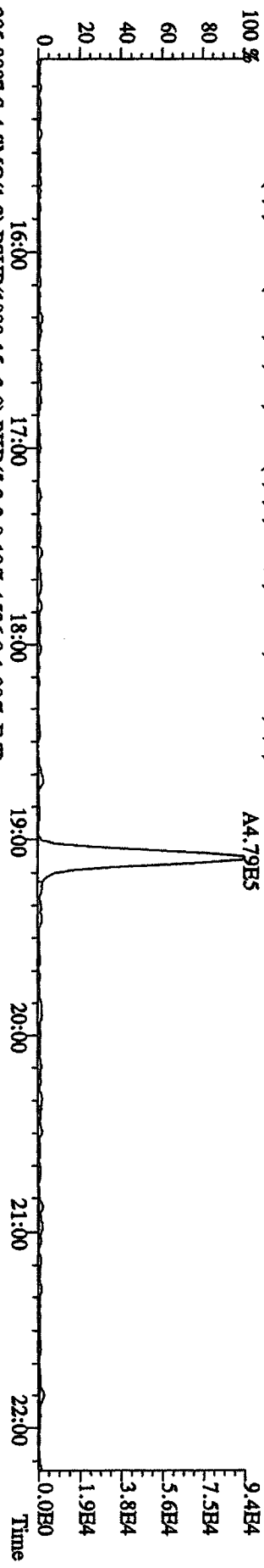


Run text: ST0412E Sample text: ST0412E :2nd Source 09DXN449
 Run #6 Filename: 12AP104D5 S: 7 I: 1 Results: 12AP104D58290A
 Acquired: 12-APR-10 13:00:53 Processed: 12-APR-10 13:48:00
 Run: 12AP104D5 Analyte: 8290A Cal: 8290A0412104D5
 Factor 1: 400.000 Factor 2: 20.000 Sample size: 1.000000

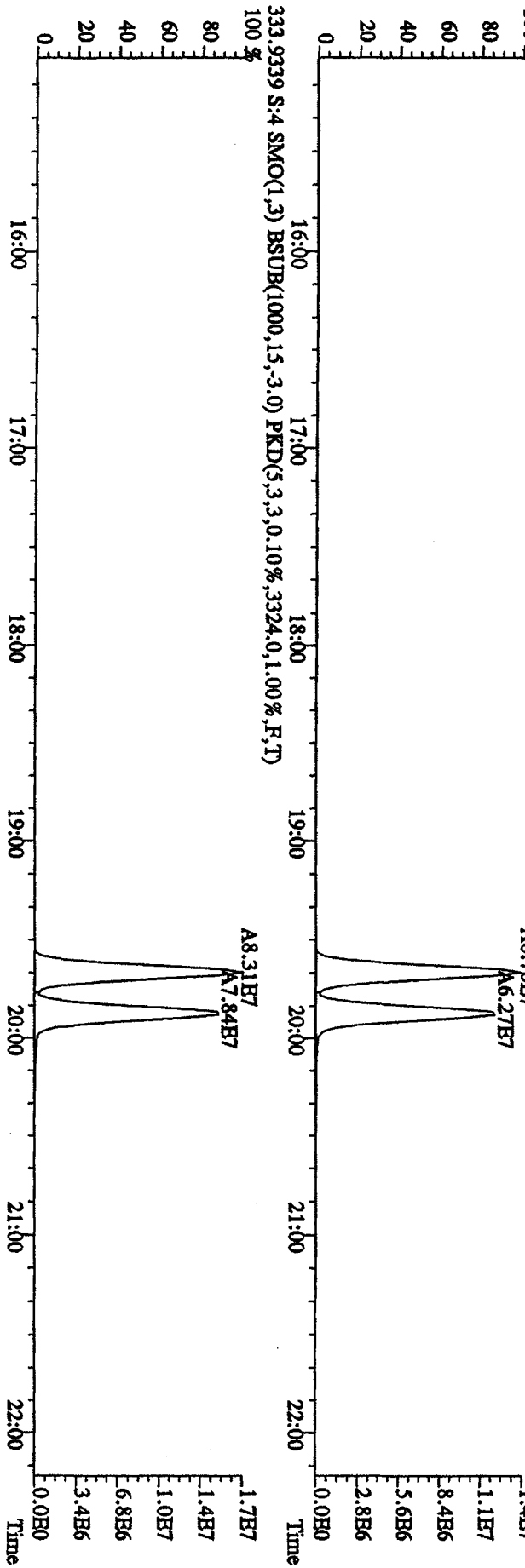
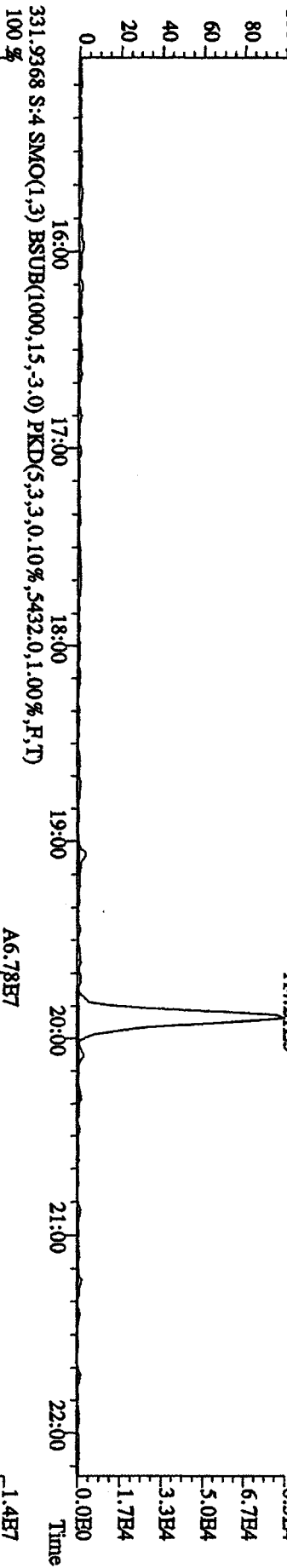
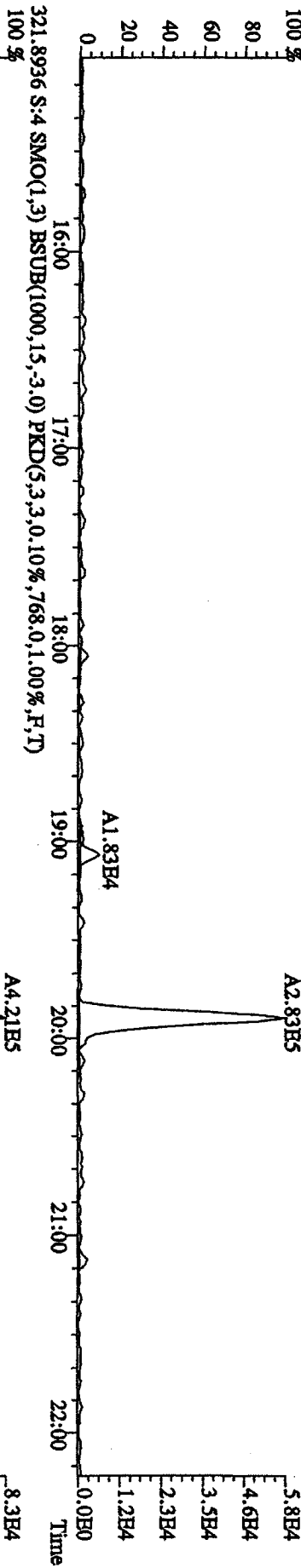
Name	Resp	RA	RT	RRF	Conc	EDL	Rec	M
13C-1,2,3,4-TCDD	151409600	0.82 y	19:40	-	113.81	-	-	n
13C-2,3,7,8-TCDF	230171000	0.79 y	19:04	1.52	1999.28	0.93	100.0	n
2,3,7,8-TCDF	21242270	0.79 y	19:05	0.95	195.26	0.34	-	n
Total TCDF	21588235	1.02 n	18:04	0.95	198.44	0.34	-	n
13C-2,3,7,8-TCDD	152072000	0.79 y	19:52	0.95	2115.17	1.71	105.8	n
2,3,7,8-TCDD	15275820	0.77 y	19:53	1.02	196.77	0.50	-	n
Total TCDD	15275820	0.77 y	19:53	1.02	196.77	0.50	-	n
37Cl-2,3,7,8-TCDD	37521800	1.00 y	19:53	2.26	219.18	0.48	109.6	n
13C-1,2,3,7,8-PeCDF	168794500	1.54 y	24:49	1.05	2122.81	0.96	106.1	n
1,2,3,7,8-PeCDF	42754900	1.53 y	24:50	1.04	484.89	0.77	-	n
2,3,4,7,8-PeCDF	39304600	1.50 y	26:21	0.98	474.17	0.82	-	n
Total F2 PeCDF	83226107	0.21 n	23:12	1.01	972.70	0.79	-	n
Total F1 PeCDF	10469	0.45 n	16:46	1.01	0.12	0.61	-	n
13C-1,2,3,7,8-PeCDD	109679100	1.54 y	27:09	0.67	2160.84	0.25	108.0	n
1,2,3,7,8-PeCDD	25416700	1.60 y	27:11	0.98	472.01	0.97	-	n
Total PeCDD	25446396	1.18 n	24:49	0.98	472.56	0.97	-	n
13C-1,2,3,7,8,9-HxCDD	113147700	1.27 y	33:11	-	110.11	-	-	n
13C-1,2,3,4,7,8-HxCDF	123877600	0.52 y	32:02	1.02	2136.54	0.23	106.8	n
1,2,3,4,7,8-HxCDF	37911400	1.23 y	32:03	1.21	504.76	0.33	-	n
1,2,3,6,7,8-HxCDF	40651300	1.15 y	32:10	1.34	488.77	0.30	-	n
2,3,4,6,7,8-HxCDF	35521200	1.16 y	32:43	1.22	469.20	0.32	-	n
1,2,3,7,8,9-HxCDF	31499000	1.17 y	33:21	1.09	465.51	0.36	-	n
Total HxCDF	145654993	1.64 n	30:59	1.22	1929.19	0.33	-	n
13C-1,2,3,6,7,8-HxCDD	96396500	1.28 y	32:55	0.81	2111.23	0.43	105.6	n
1,2,3,4,7,8-HxCDD	26232400	1.22 y	32:51	1.01	540.61	0.40	-	n
1,2,3,6,7,8-HxCDD	26144300	1.25 y	32:56	1.11	486.96	0.36	-	n
1,2,3,7,8,9-HxCDD	28011100	1.25 y	33:11	1.21	480.69	0.33	-	n
Total HxCDD	80387800	1.22 y	32:51	1.11	1508.26	0.36	-	n
13C-1,2,3,4,6,7,8-HpCDF	106632500	0.43 y	34:41	0.86	2185.09	4.33	109.3	n
1,2,3,4,6,7,8-HpCDF	33859900	0.94 y	34:42	1.31	484.91	1.62	-	n
1,2,3,4,7,8,9-HpCDF	26897700	0.96 y	35:50	1.03	491.88	2.07	-	n
Total HpCDF	61065054	0.94 y	34:42	1.17	981.73	1.82	-	n
13C-1,2,3,4,6,7,8-HpCDD	86175900	1.05 y	35:30	0.70	2183.88	1.23	109.2	n
1,2,3,4,6,7,8-HpCDD	22374800	1.02 y	35:31	1.07	484.47	1.05	-	n
Total HpCDD	22766213	0.81 n	34:57	1.07	492.95	1.05	-	n
13C-OCDD	132677900	0.90 y	38:01	0.53	4413.39	0.40	110.3	n

OCDF	45645500	0.90	y	38:08	1.45	952.11	0.72	-	n
OCDD	37812000	0.89	y	38:02	1.17	977.46	1.35	-	n

File:12AP104D5 #1-435 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A
 303.9016 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1084.0,1.00%,F,T) 100%



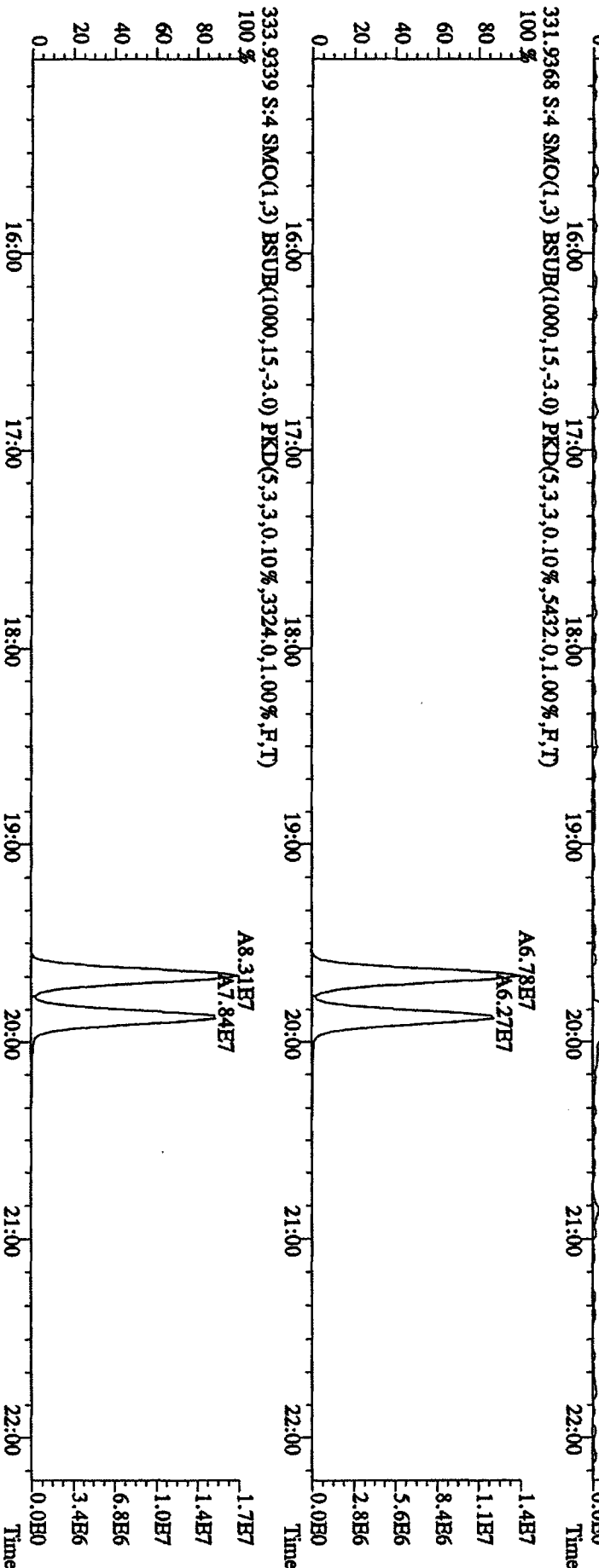
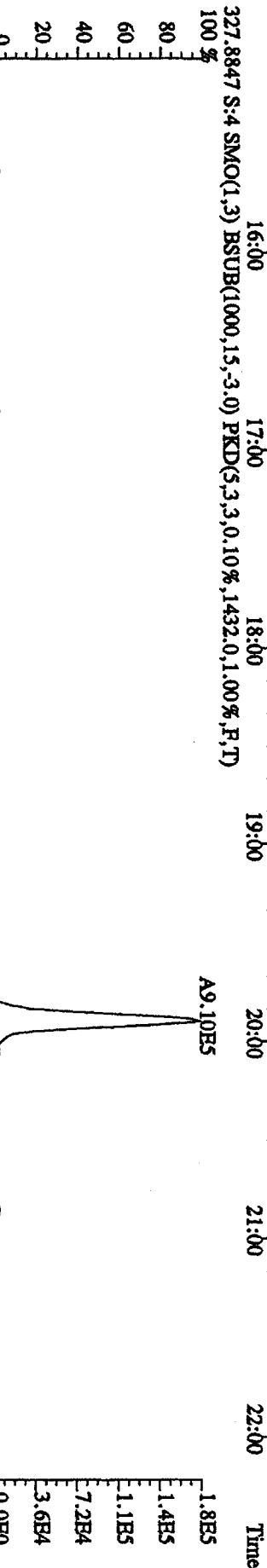
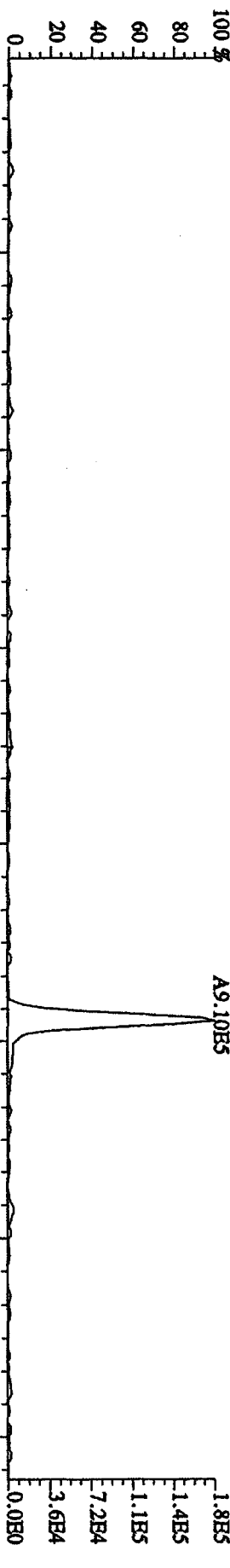
File: 12AP104D5 #1-435 Acq: 12-APR-2010 10:48:47 GC: EI+ Voltage: SIR Autospec-UltimaE
 Sample#4 Text: ST0412B :CS-1 09DXN422 Exp: DIOXINRES8290A
 319.8965 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,840,0,1.00%,F,T)



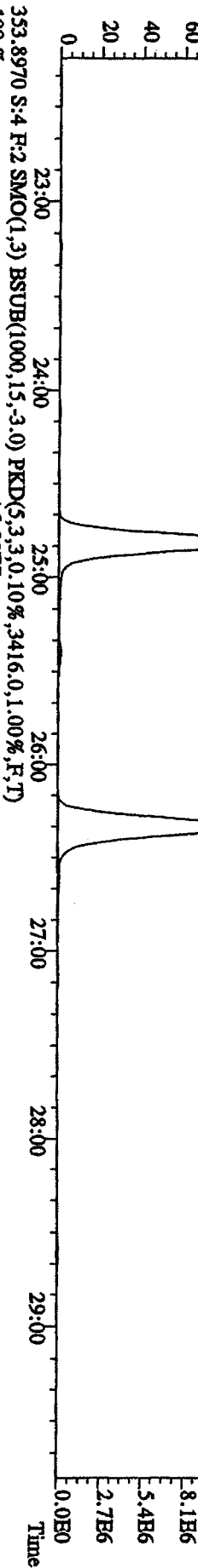
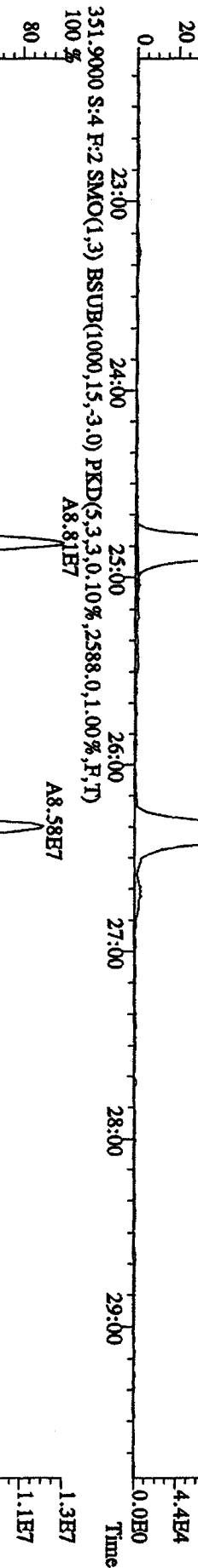
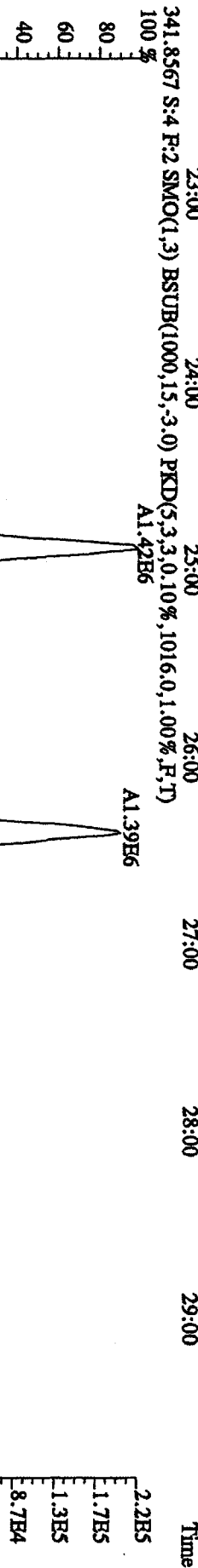
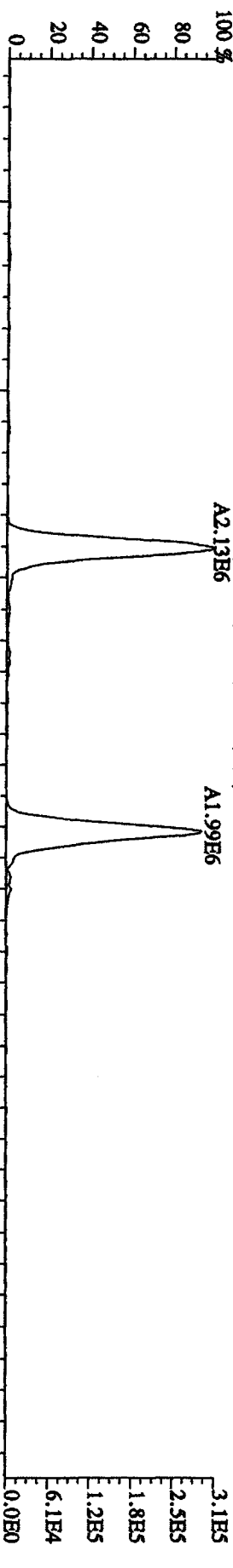
File:12AP104D5 #1-435 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UtimaB

Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A

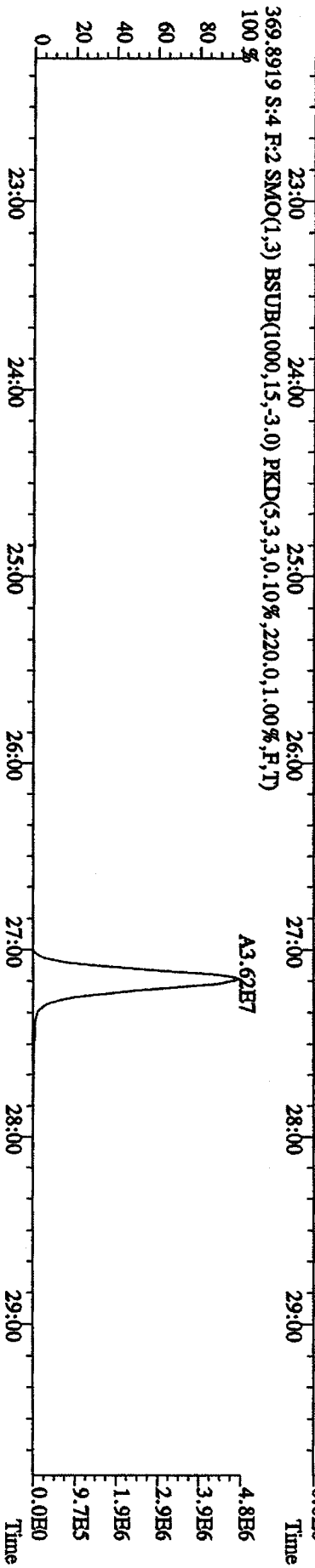
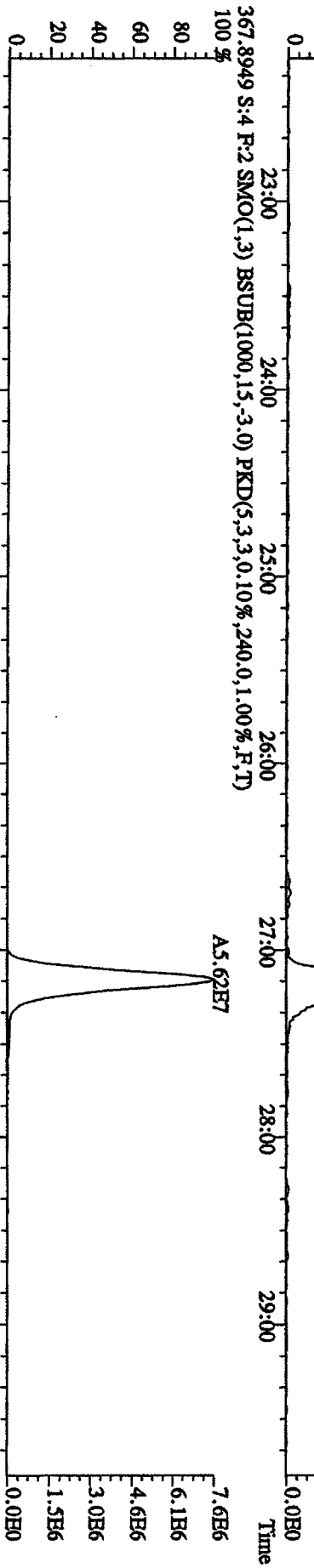
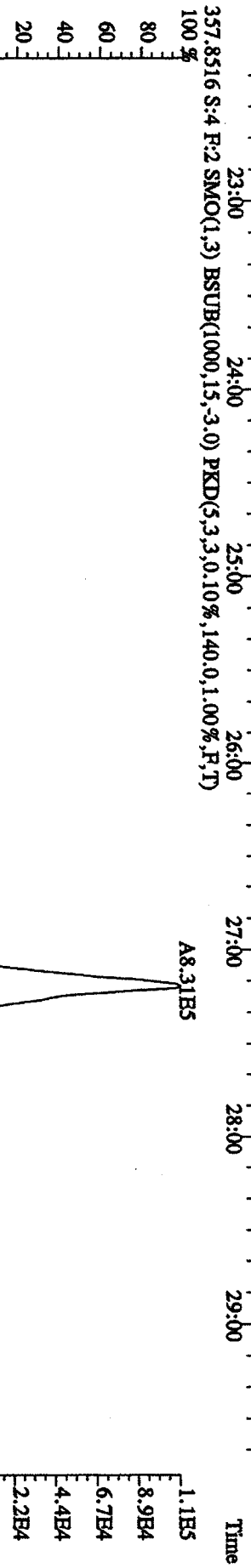
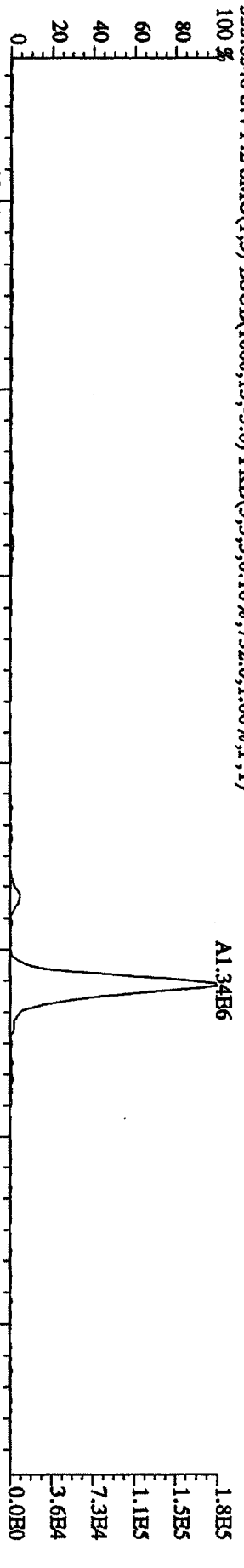
327.8847 S:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,1.0%,1432.0,1.00%,F,T) 100%



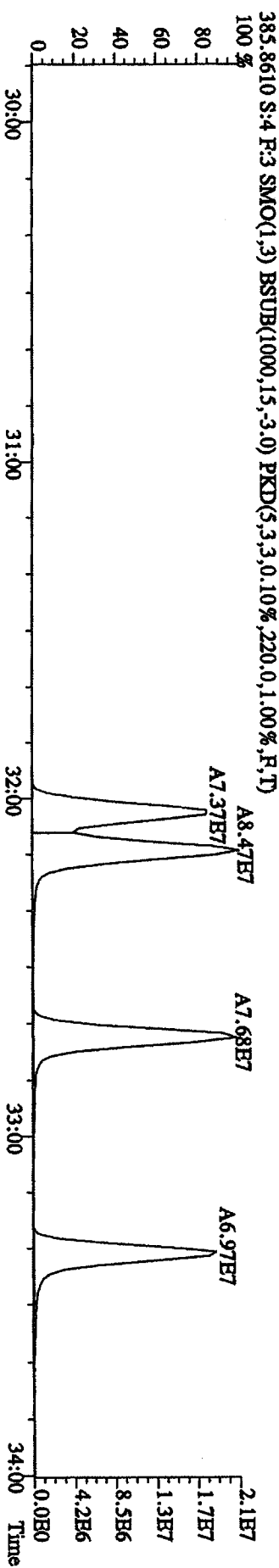
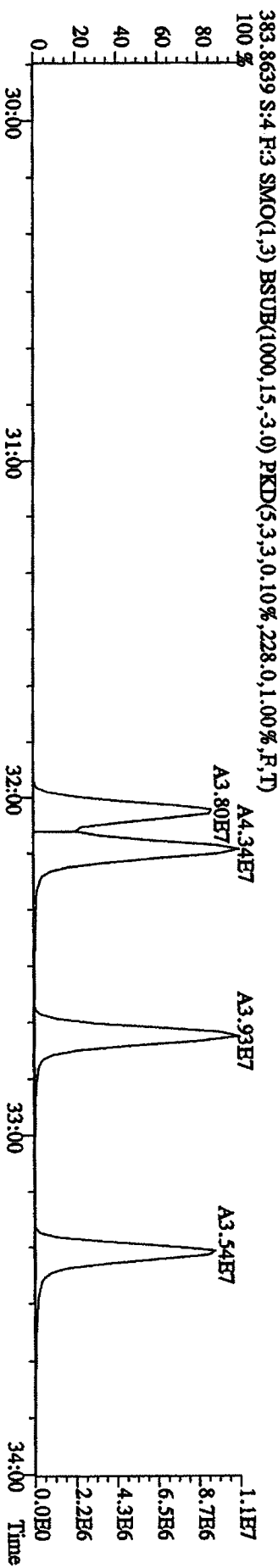
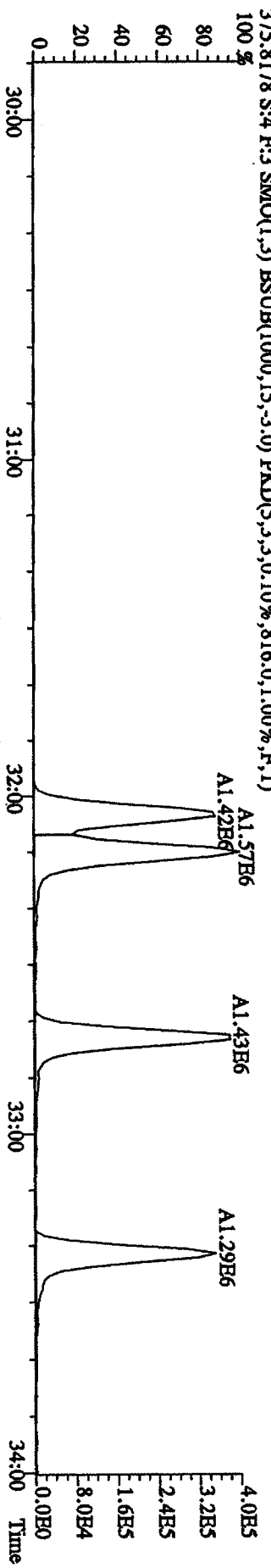
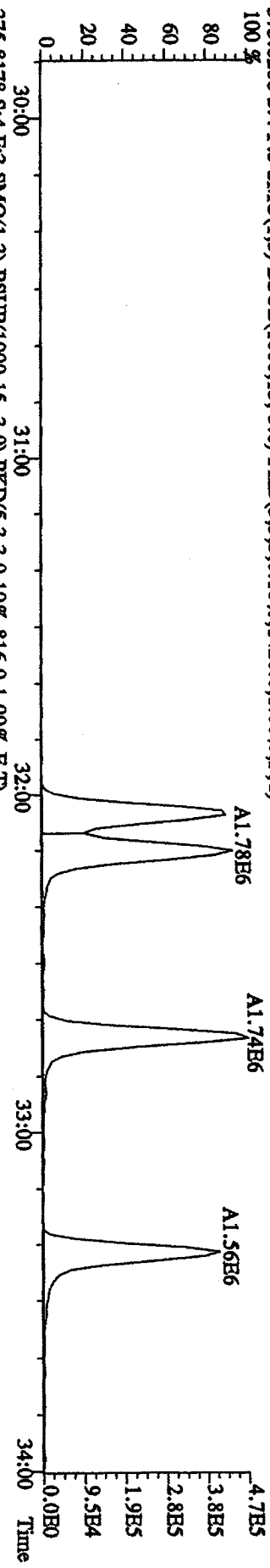
File:12AP104D5 #1-604 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0412B :CS-1 09DXN622 Bxp:DIOXINRES8290A
 339.8597 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,400.0,1.00%,F,T)
 100 % A2.13B6



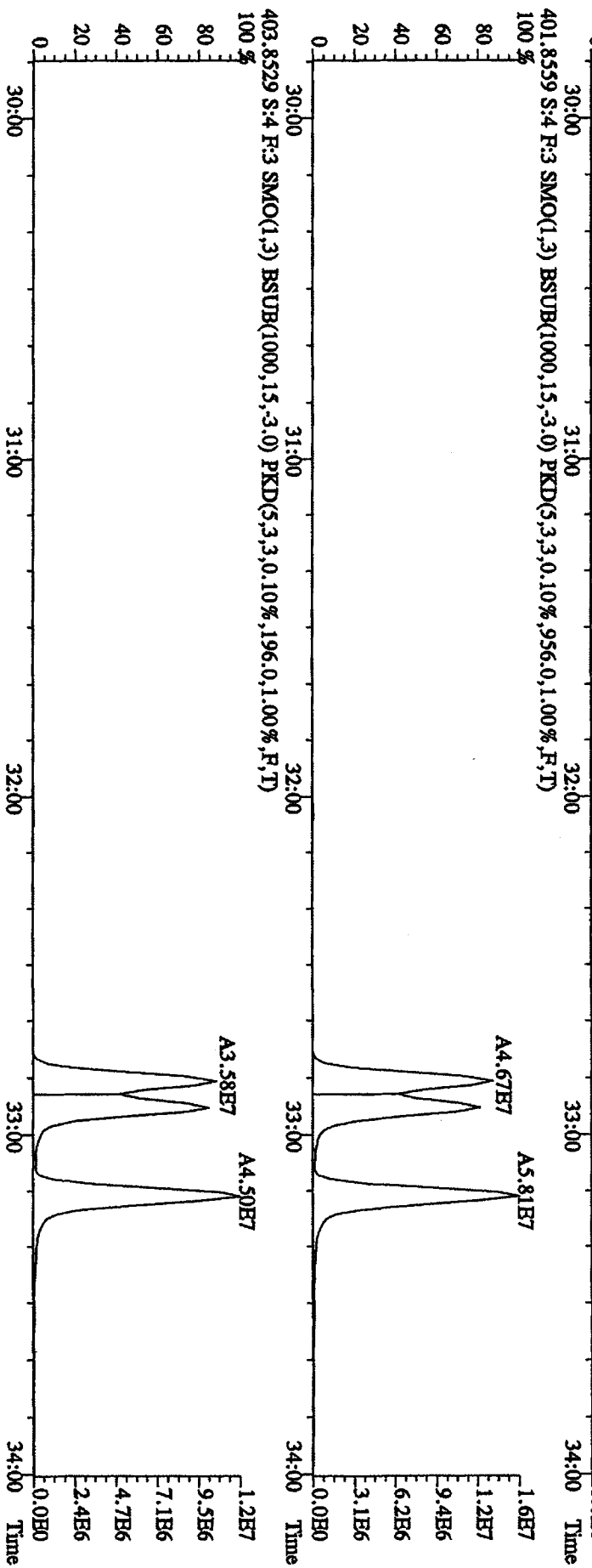
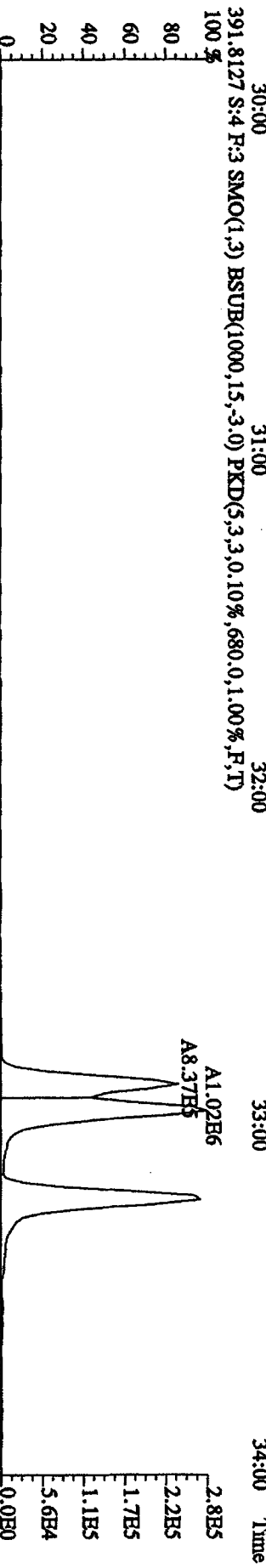
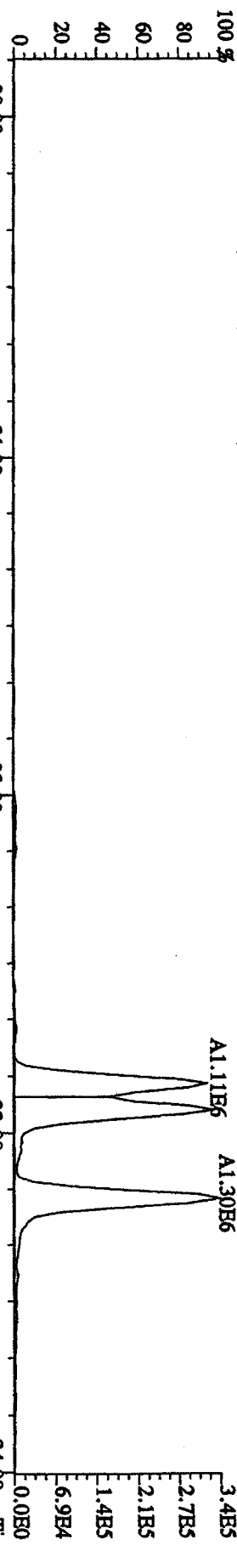
File:12AP104D5 #1-604 Acq:12-APR-2010 10:48:47 GC BI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A
 355.8546 S:4 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,732.0,1,00%,F,T) 100%



File:12AP104D5 #1-317 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRBS8290A
 373.8208 S:4 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1420,0,1,00%,F,T)



File:12AP104D5 #1-317 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRBS8290A
 389.8127 S:4 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,828.0,1.00%,F,T)

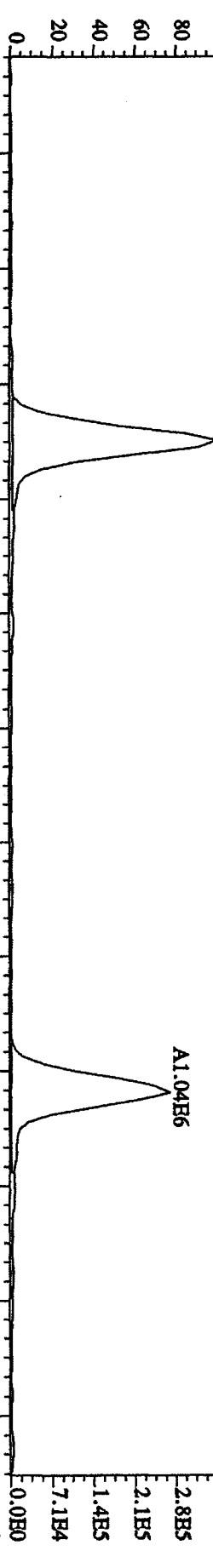


File:12AP10AD5 #1-198 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB

Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A

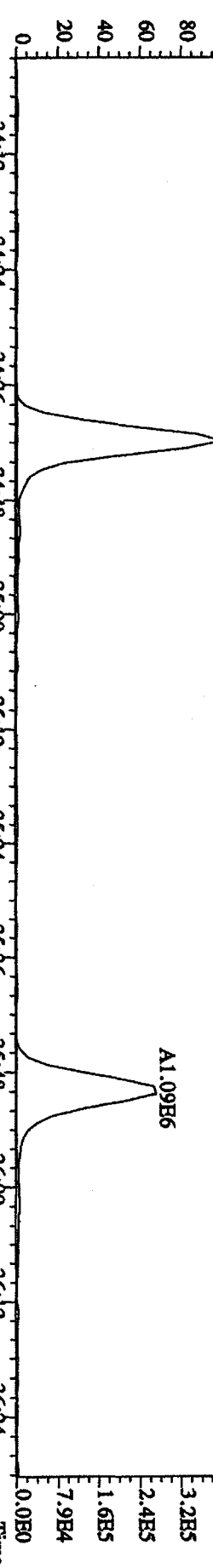
407.7818 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,4044.0,1.00%,F,T)

100% A1.29E6 3.5E5



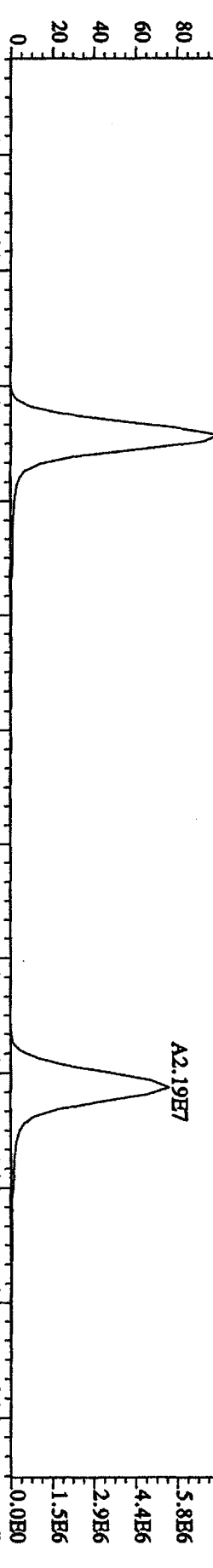
409.7789 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,2496.0,1.00%,F,T)

100% A1.40E6 4.0E5



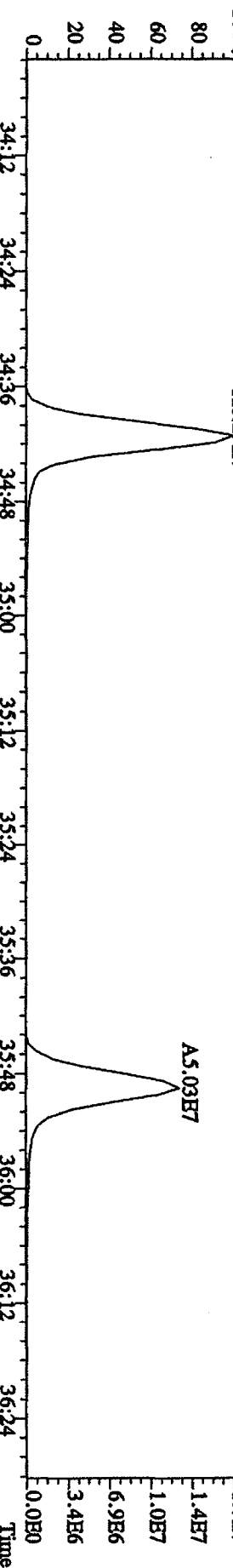
417.8253 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,5368.0,1.00%,F,T)

100% A2.64E7 7.3E6

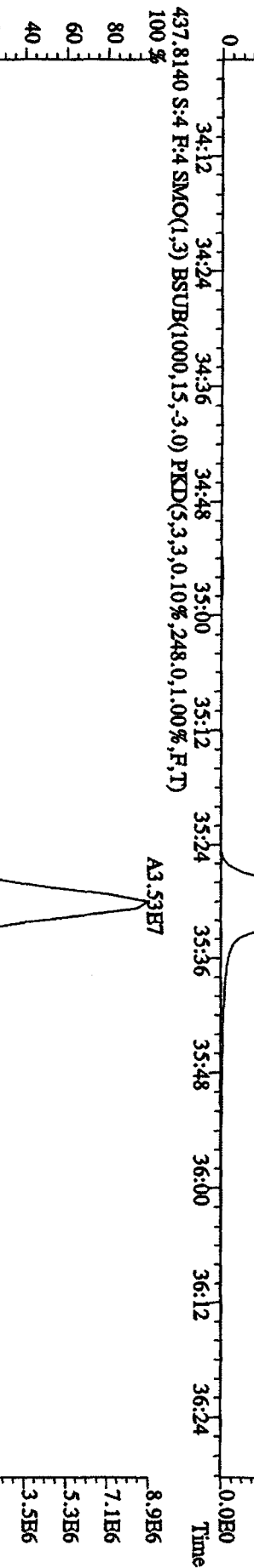
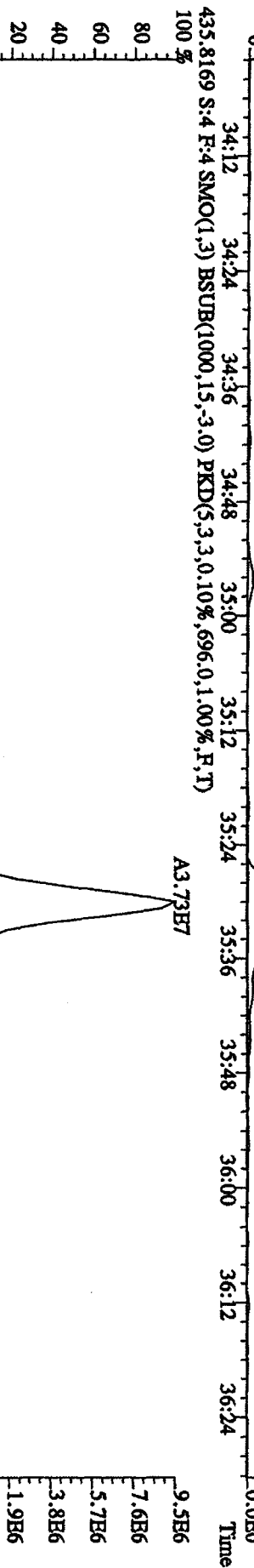
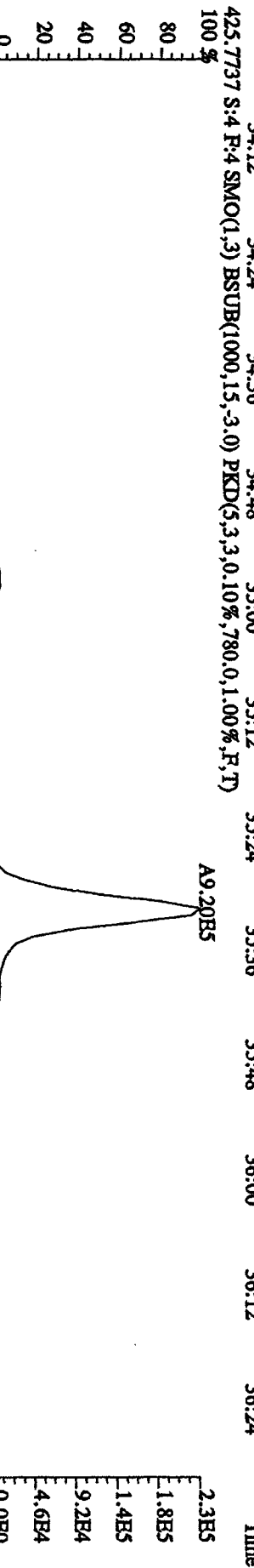
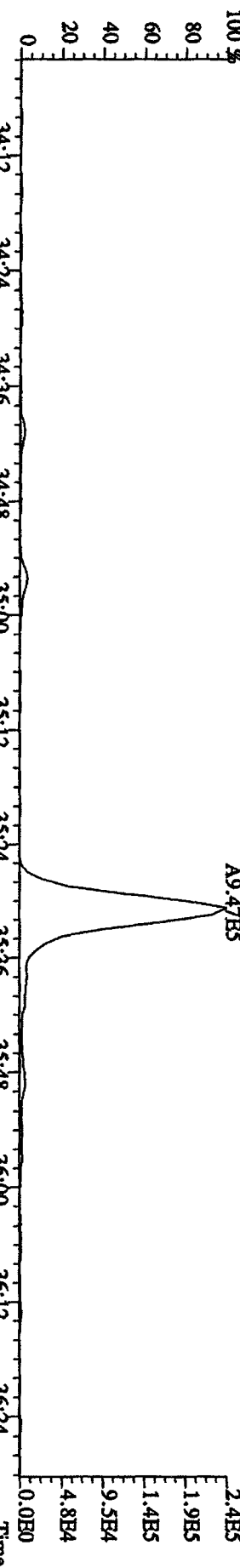


419.8220 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,14828.0,1.00%,F,T)

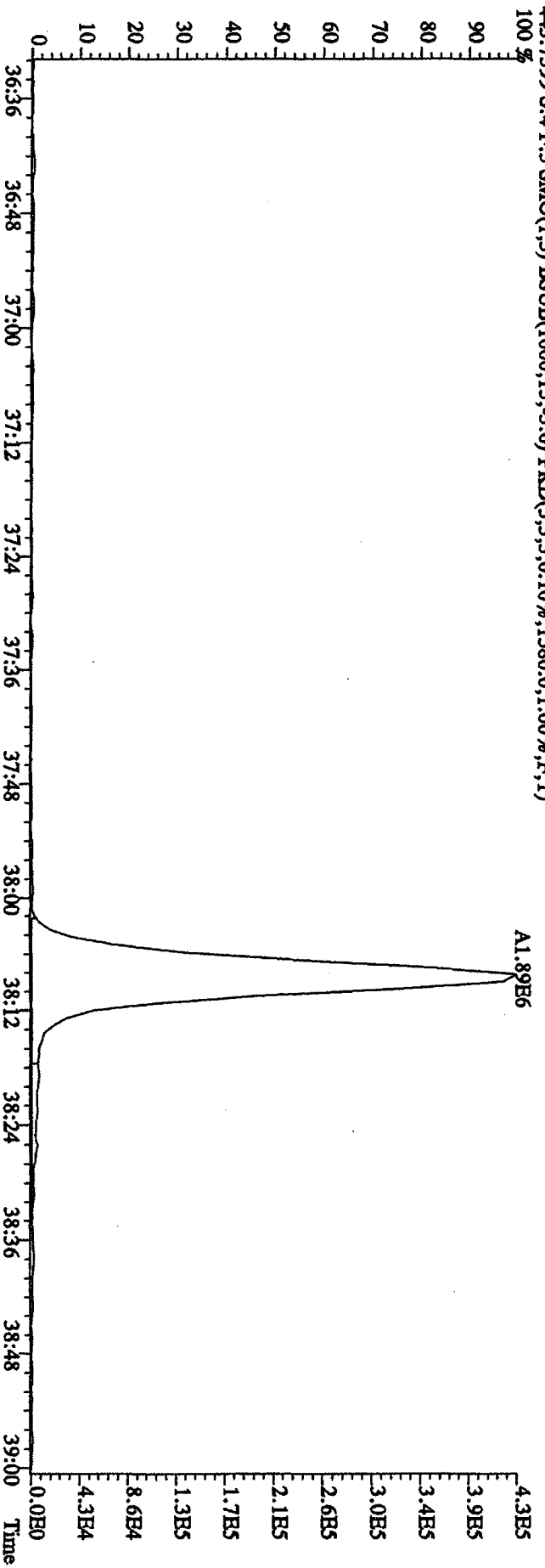
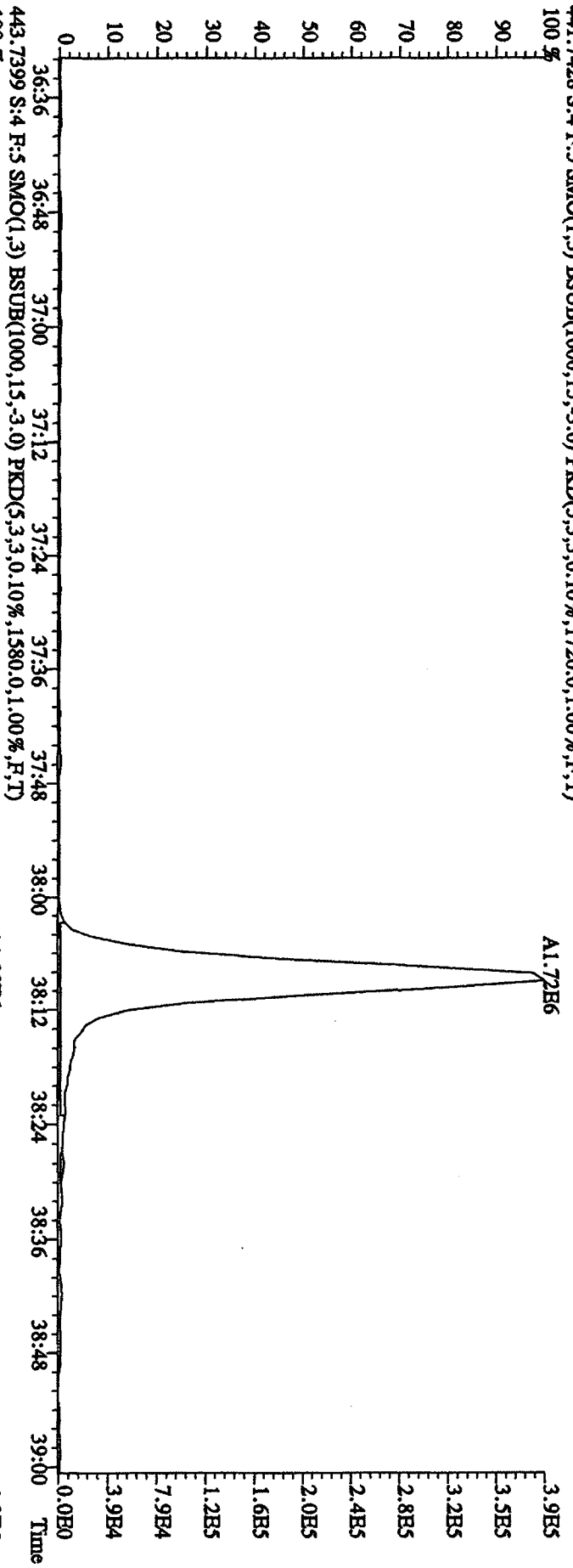
100% A6.29E7 1.7E7



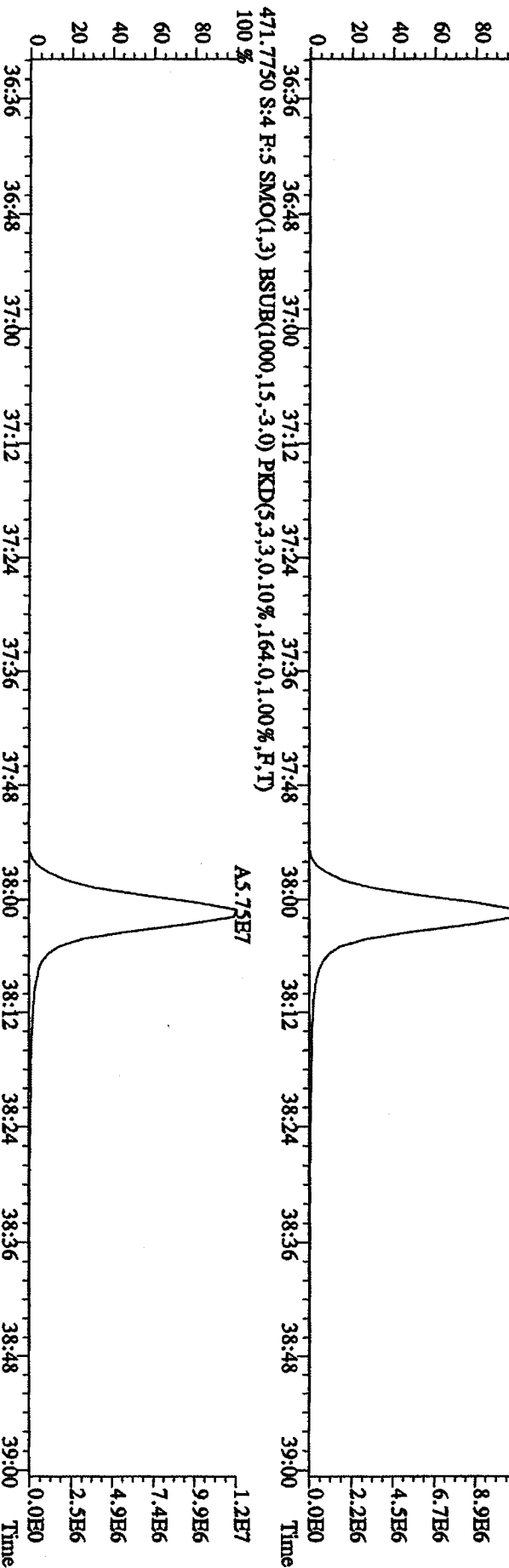
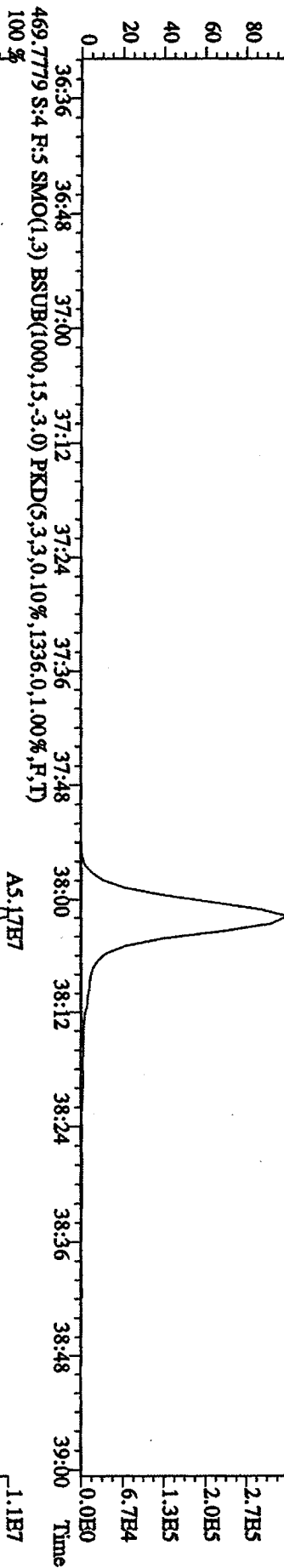
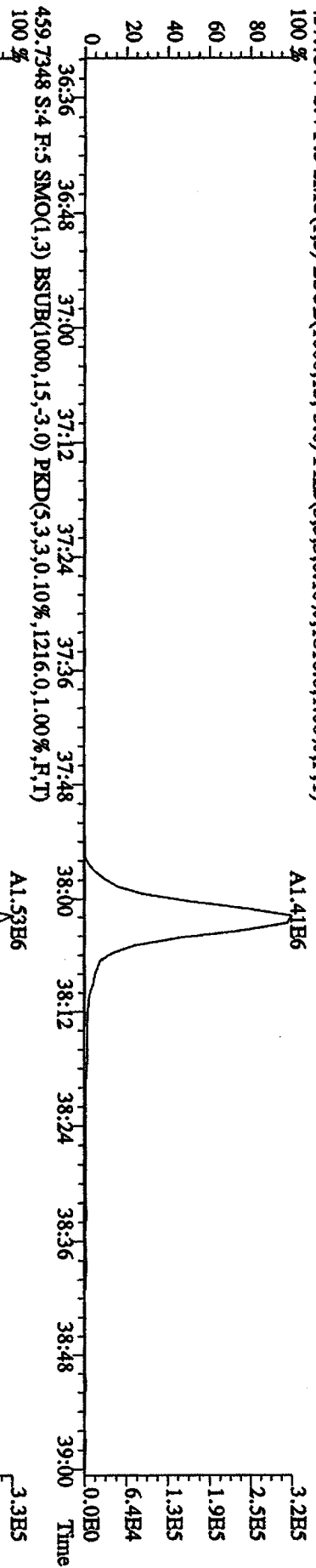
File:12AP104D5 #1-198 Acq:12-APR-2010 10:48:47 GC HF+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRHS8290A
 423.7766 S:4 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,460.0,1.00%,F,T) 100%



File:12AP104D5 #1-191 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A
 441.7428 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1720.0,1.00%,F,T)
 100 %



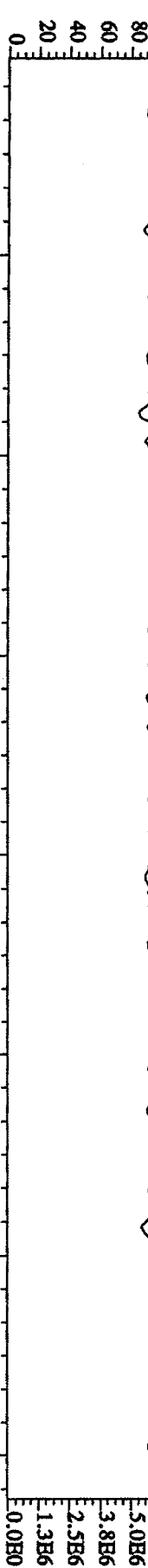
File: 12ADP104D5 #1-191 Acq: 12-APR-2010 10:48:47 GC EL+ Voltage SIR Autospec-UltimaB
 Sample#4 Text: ST0412B :CS-1 09DXN422 Exp: DIOXINRES8290A
 457.7377 S:4 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1816.0,1.00%,F,T)



File:12AP104D5 #1-435 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-Ultimate

Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A

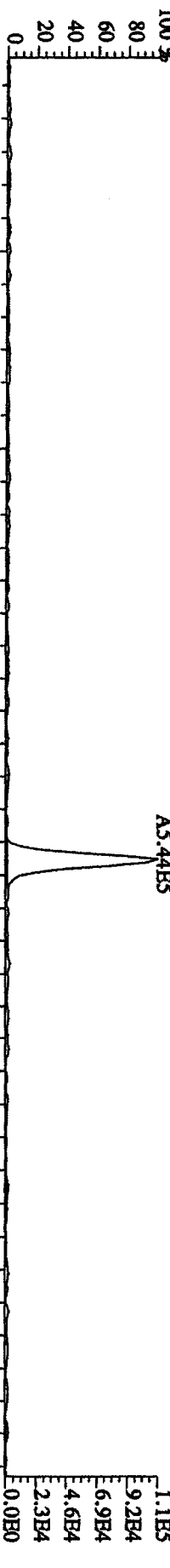
354.9792 S:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



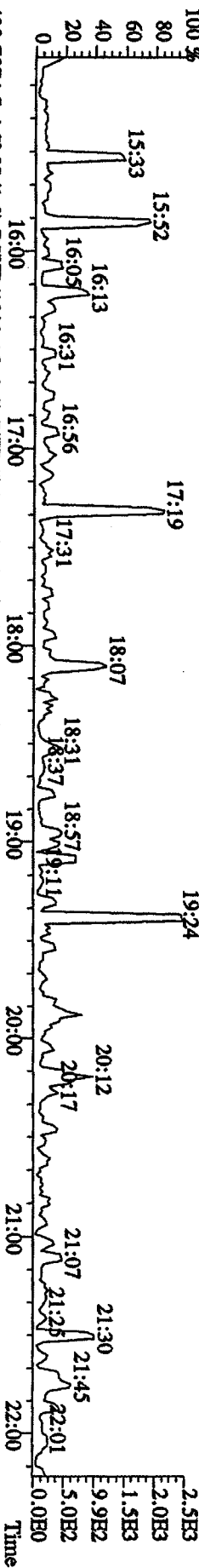
303.9016 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1084.0,1.00%,F,T)



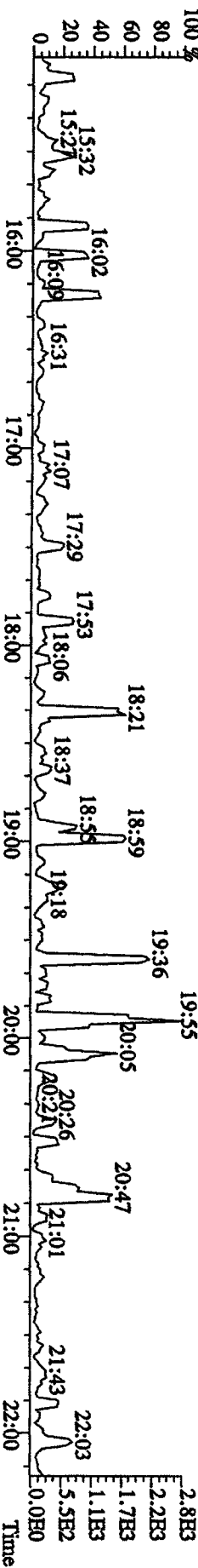
305.8987 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,1536.0,1.00%,F,T)



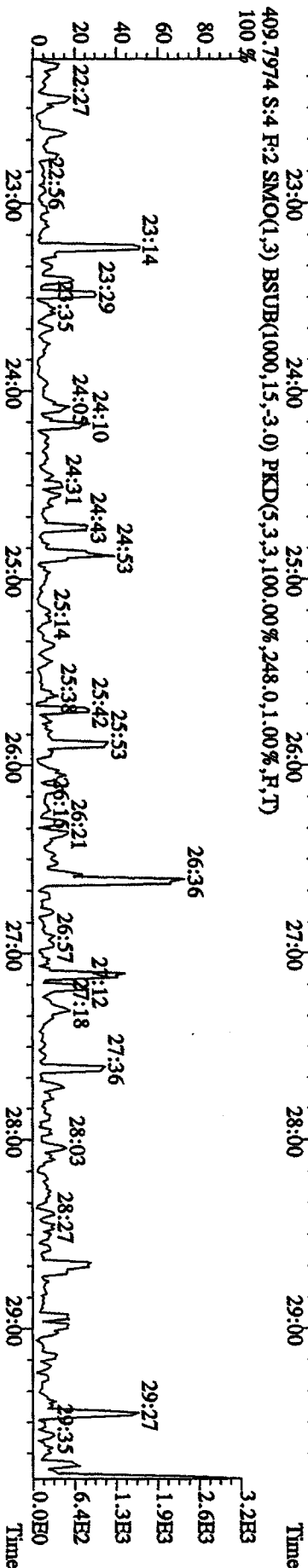
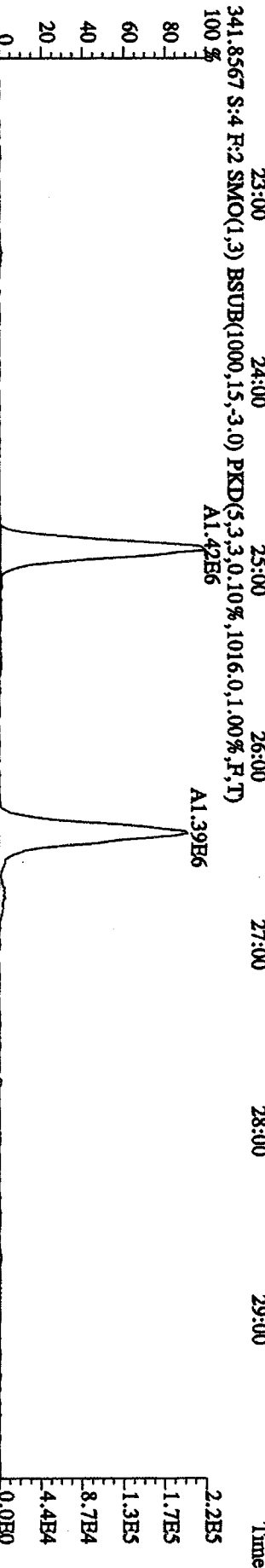
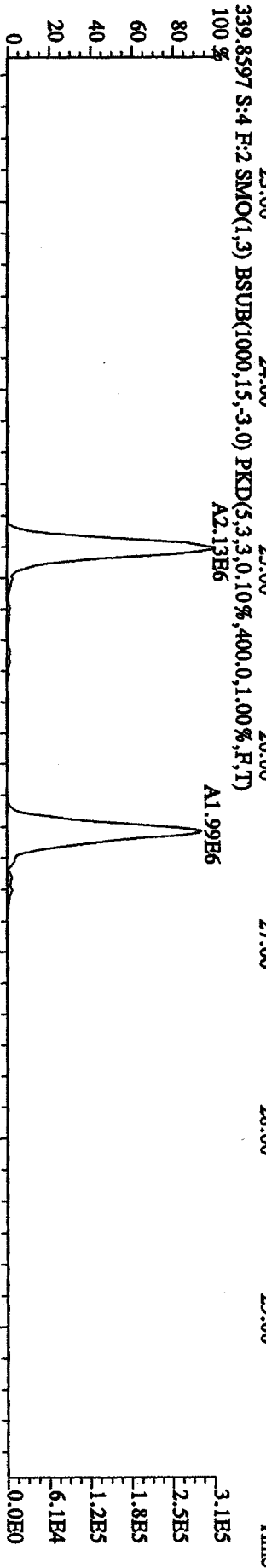
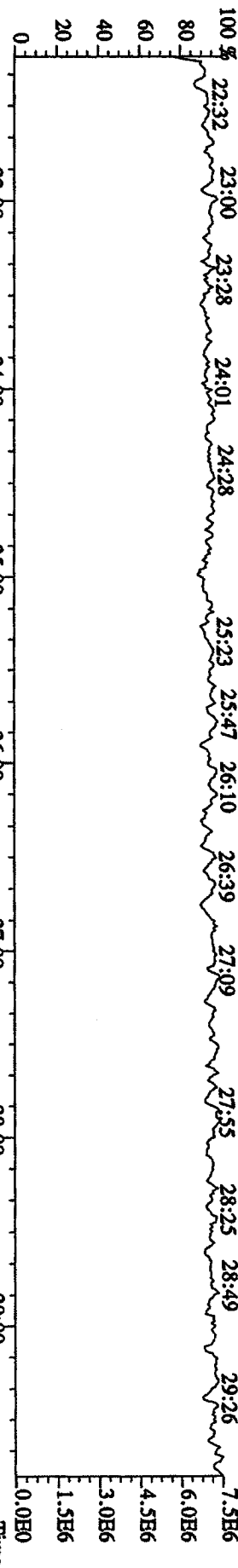
375.8364 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,196.0,1.00%,F,T)



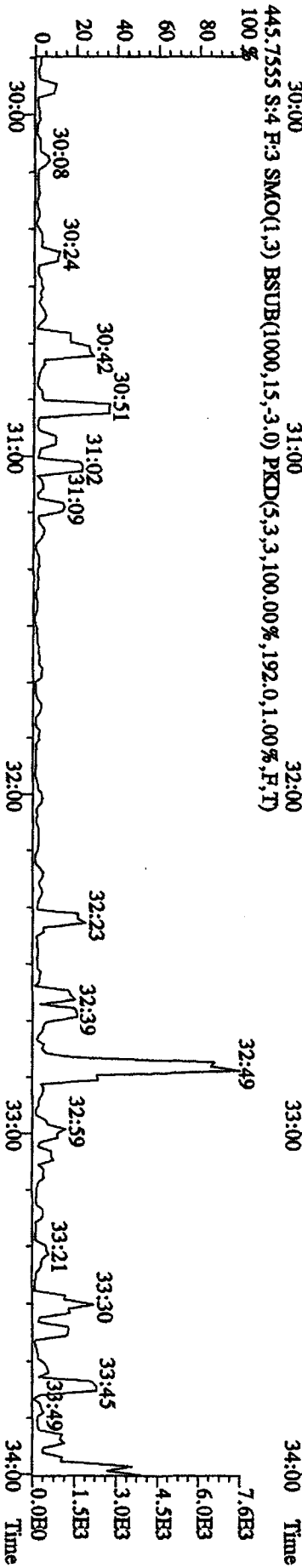
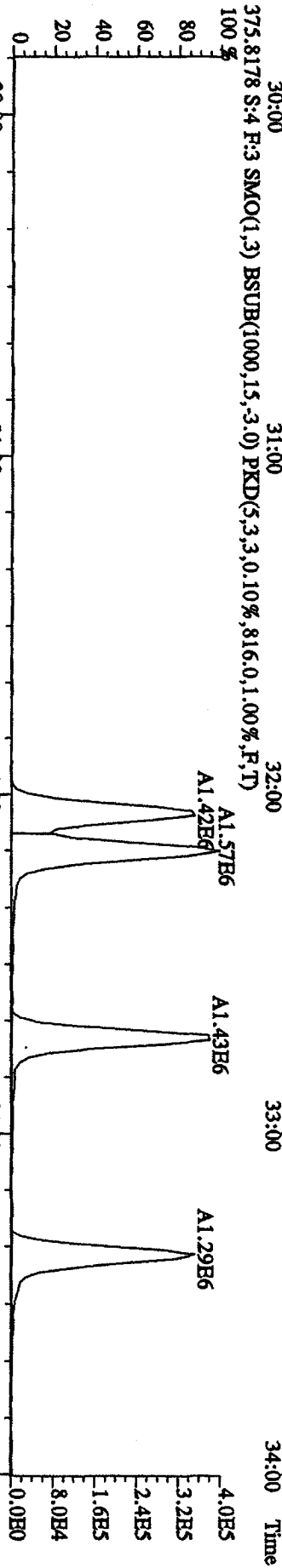
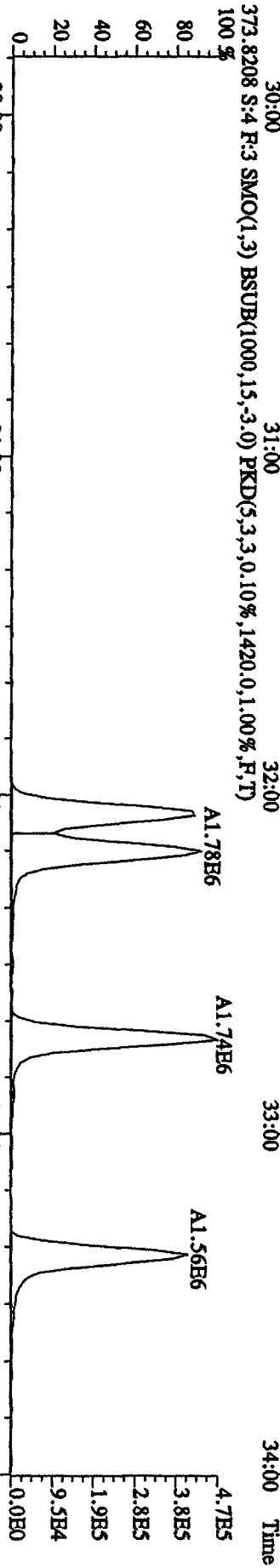
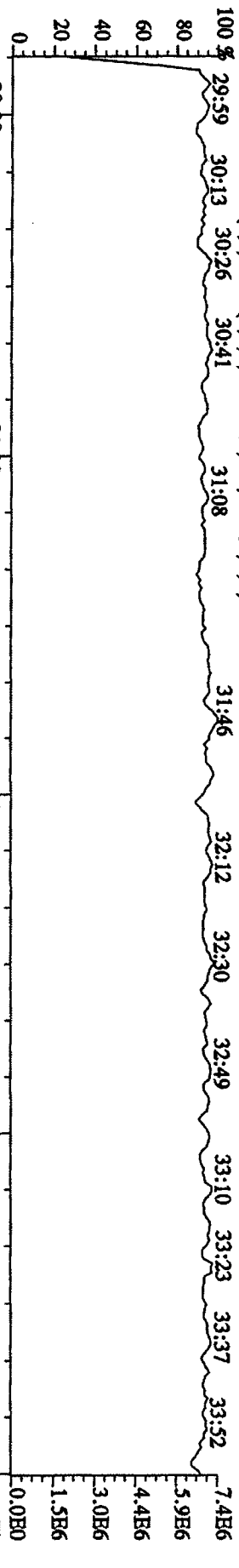
409.7974 S:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,176.0,1.00%,F,T)



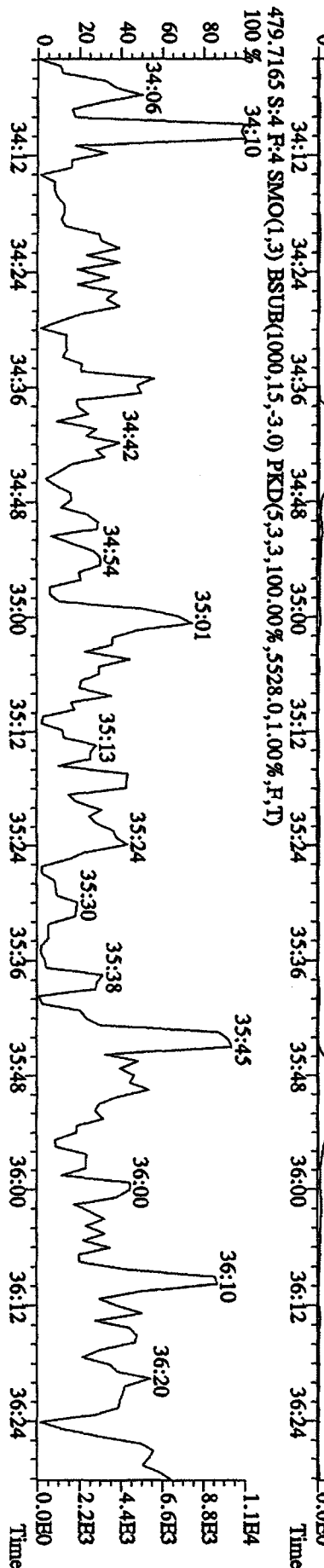
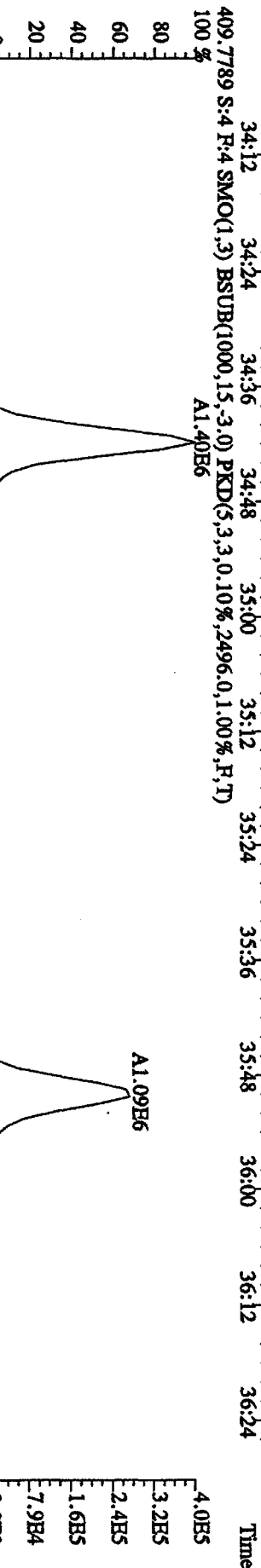
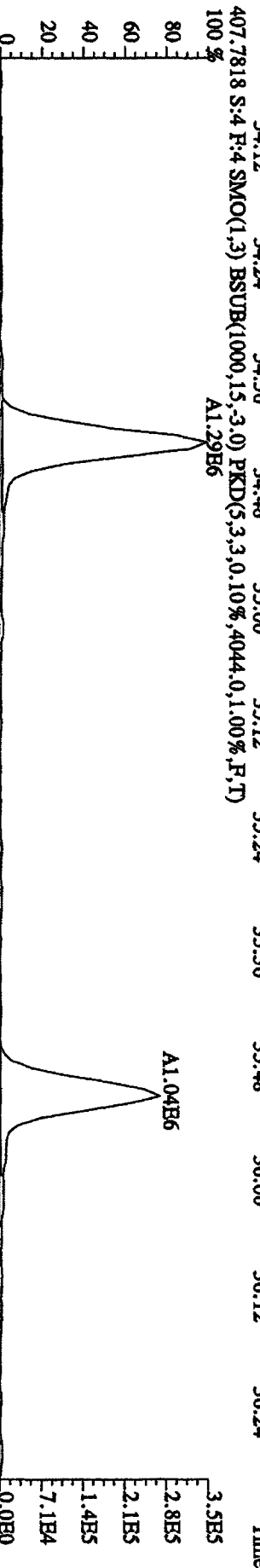
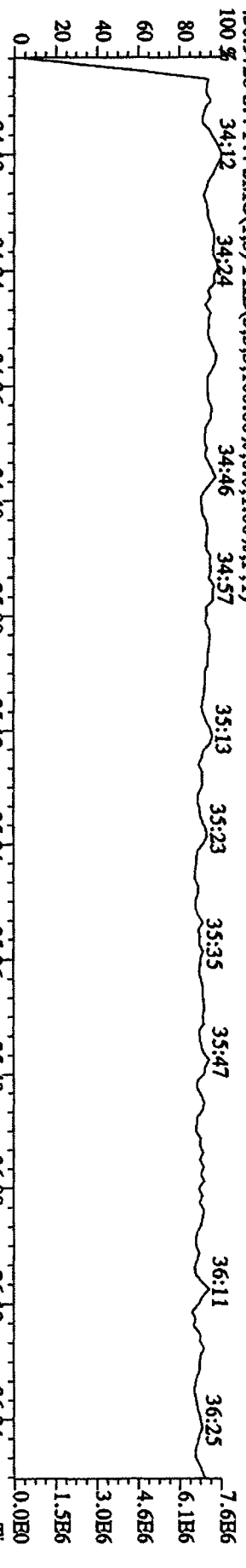
File: 12AP104D5 #1-604 Acq: 12-APR-2010 10:48:47 GC BI+ Voltage SIR Autospec-UltimaE
 Sample#4 Text: ST0412B :CS-1 09DXN422 Exp: DIOXINRES8290A



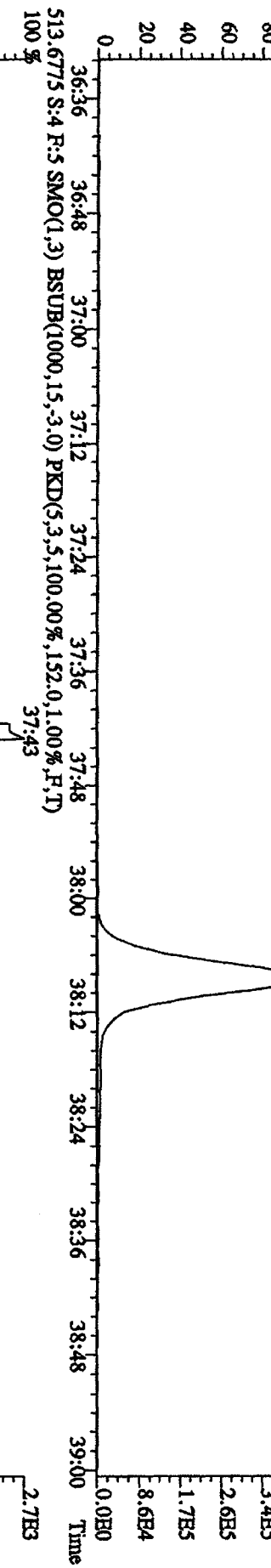
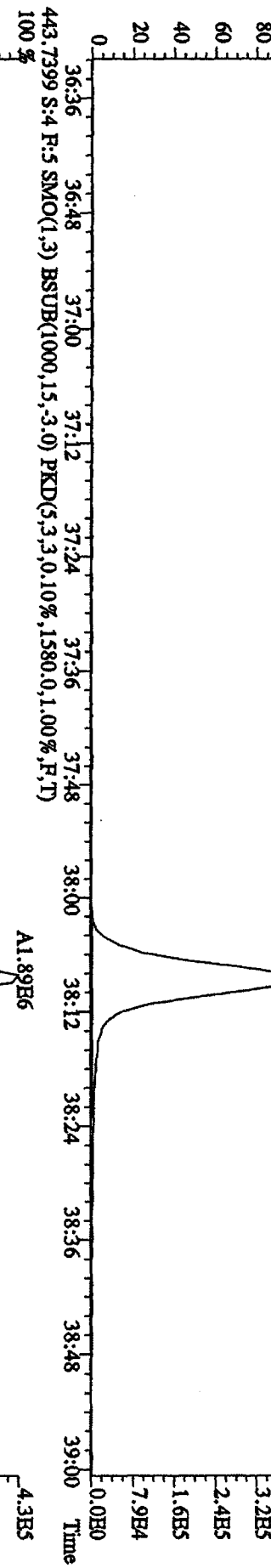
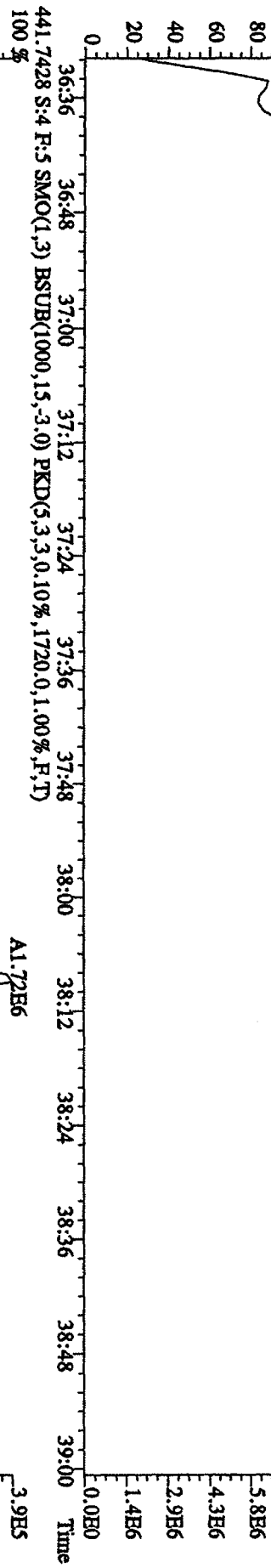
File:12AP104D5 #1-317 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp:DIOXINRES8290A



File:12API04D5 #1-198 Acq:12-APR-2010 10:48:47 GC EI+ Voltage SIR Autospec-UtimaE
 Sample#4 Text:ST0412B :CS-1 09DXN422 Exp.:DIOXINRES8290A



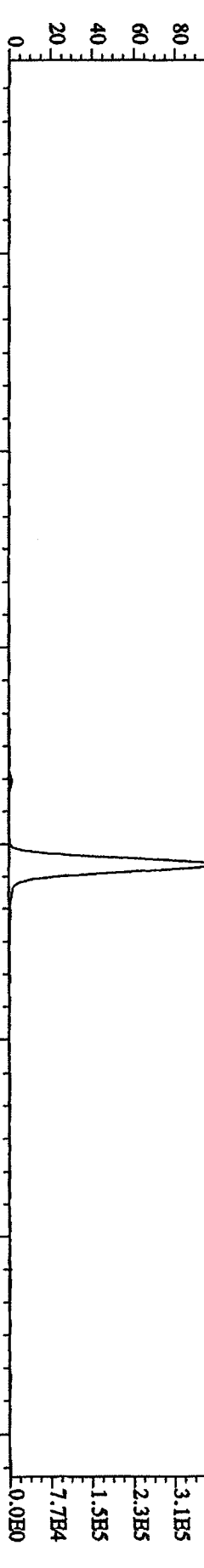
File:12AP104D5 #1-191 Acq:12-APR-2010 10:48:47 GC:EI+ Voltage:519 Autospec-UltimaB
 Sample#4 Text:ST10412B :CS-1-09DXN422 Exp:DIOXINRES8290A
 442.9728 S:4 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 36:39 36:51 37:09 37:29 37:38 37:51 38:03 38:18 38:27 38:43 38:54



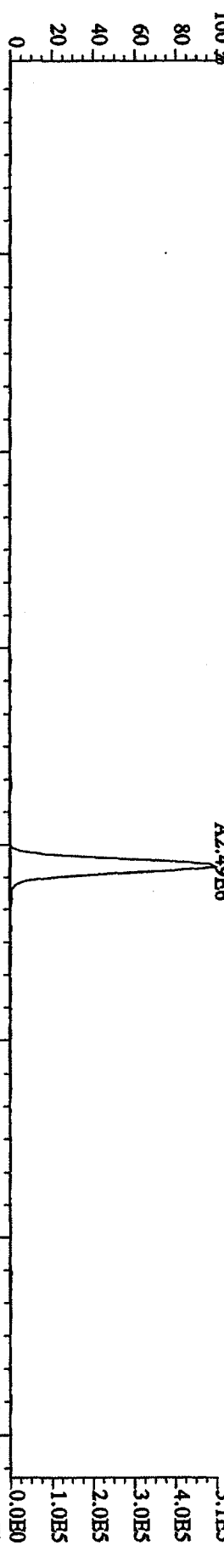
File:12AP104D5 #1-435 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB

Sample#3 Text:ST0412A :CS-2-09DXN423 Exp:DIOXINRES8290A

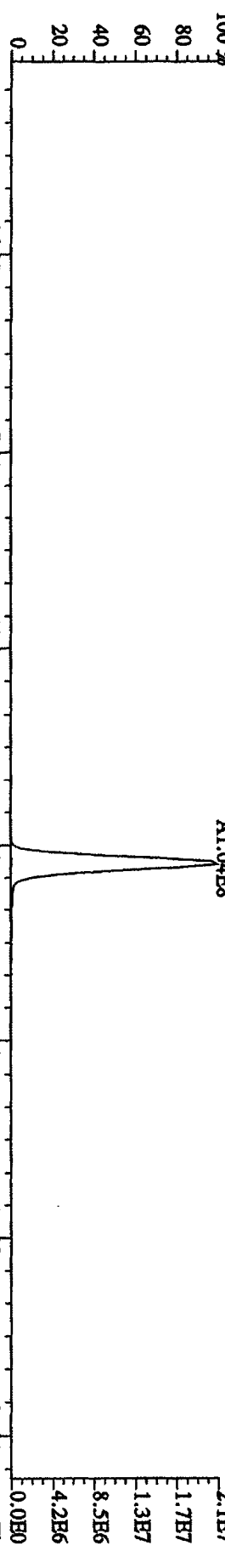
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T)



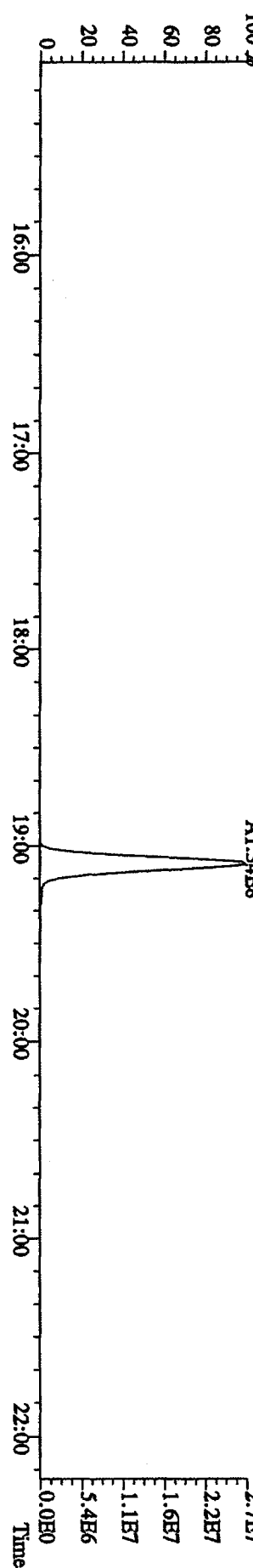
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1644.0,1.00%,F,T)



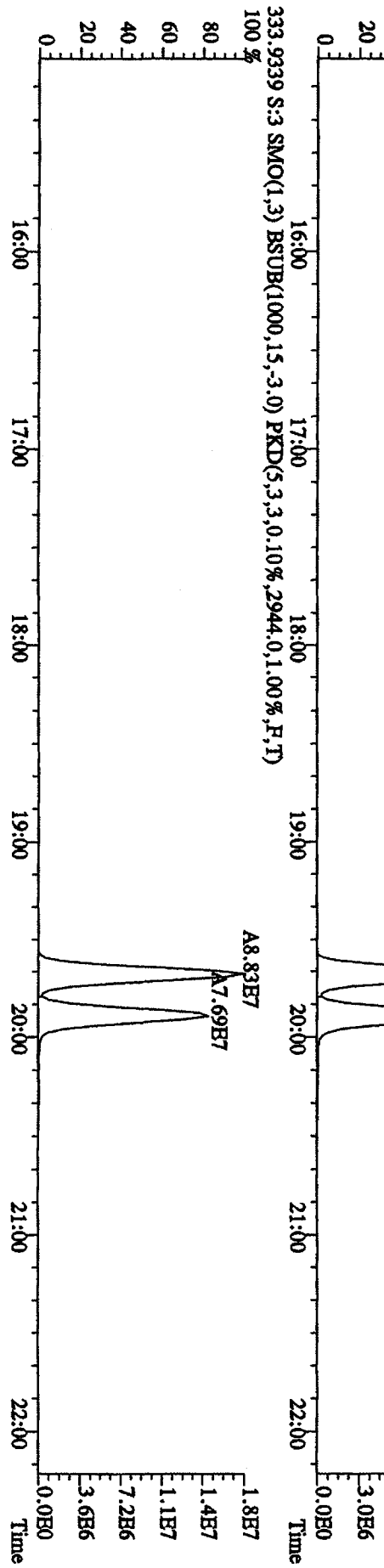
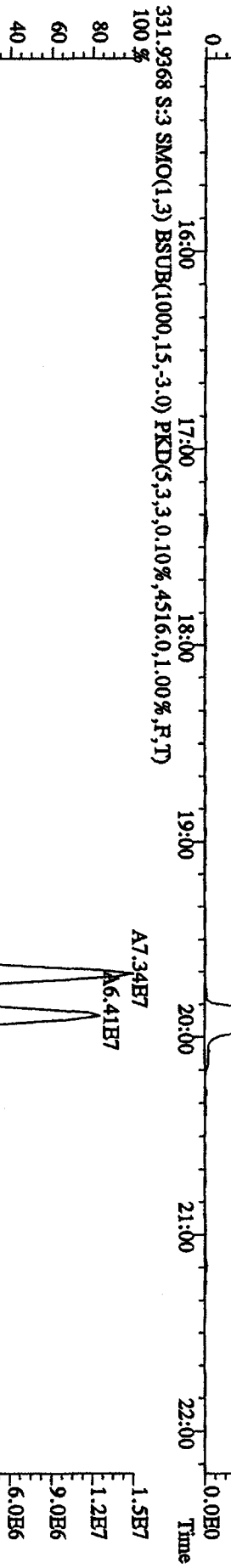
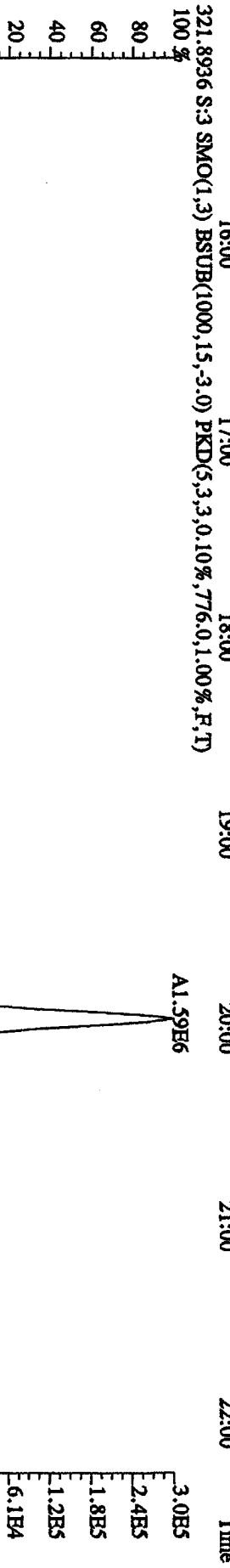
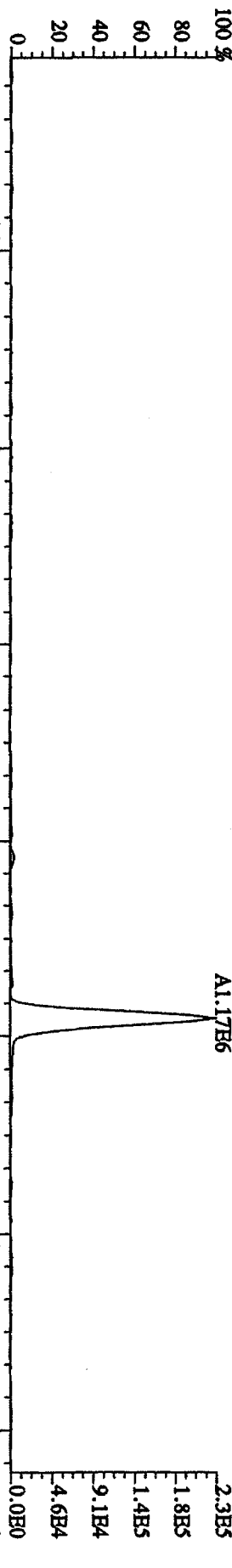
315.9419 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4576.0,1.00%,F,T)



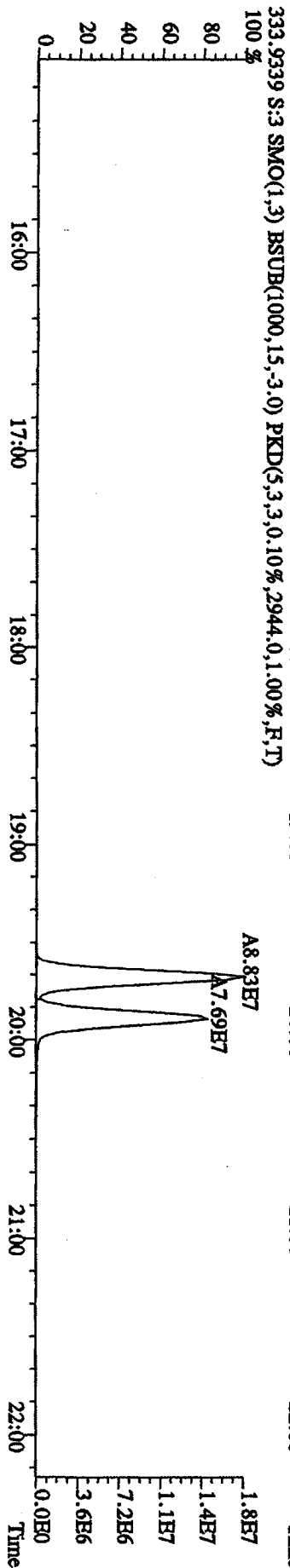
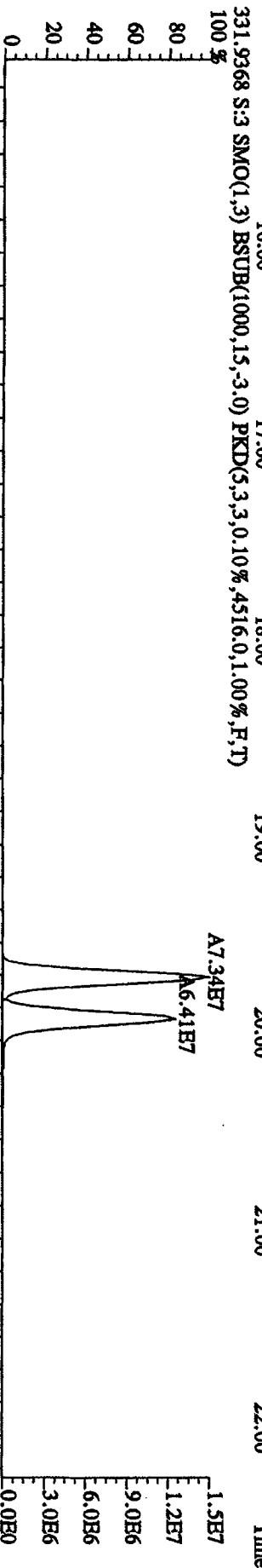
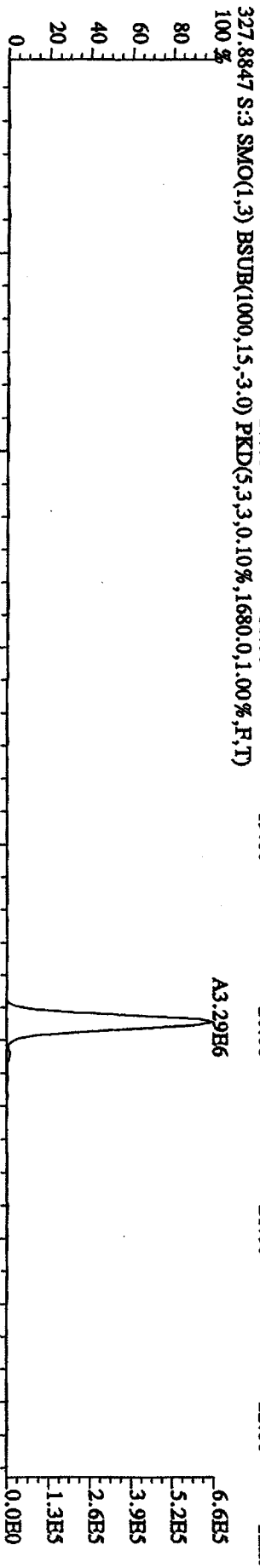
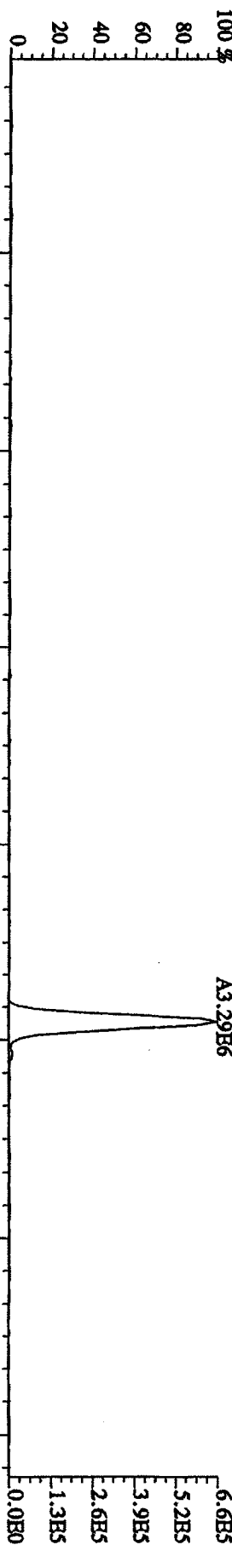
317.9389 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3484.0,1.00%,F,T)



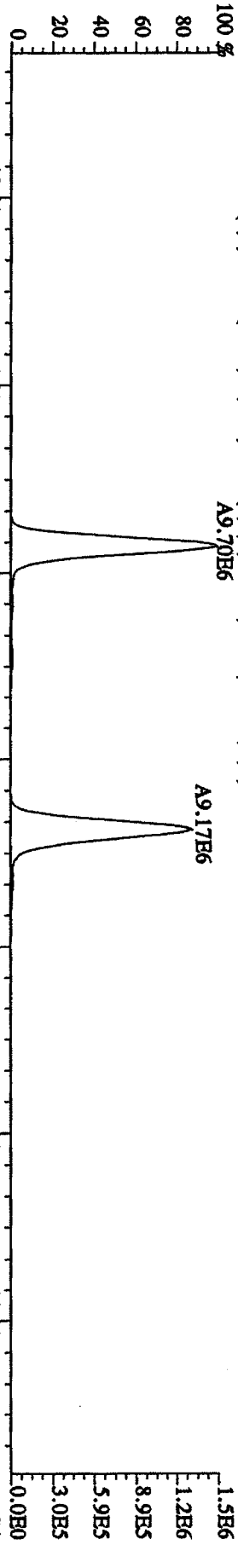
File:12AP104D5 #1-435 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:ST0412A :CS-2-09DXN423 Bsp:DIOXINRES8290A
 319.8965 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,756.0,1.00%,F,T)



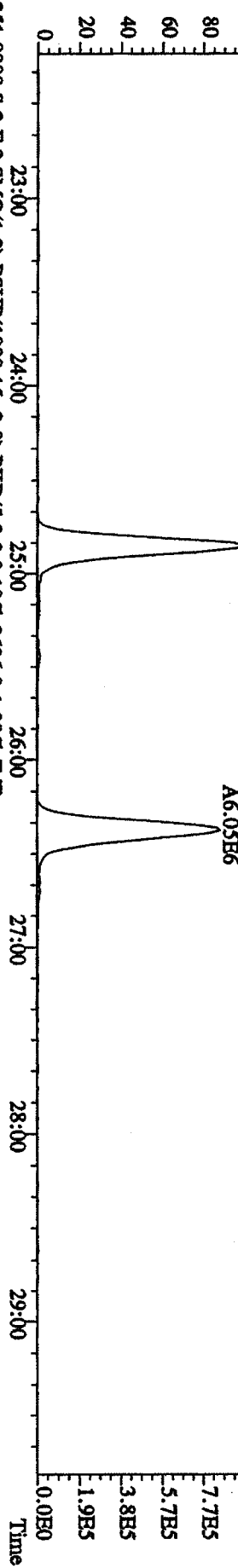
File:12AP104D5 #1-435 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRES8290A
 327.8847 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1680.0,1.00%,F,T)



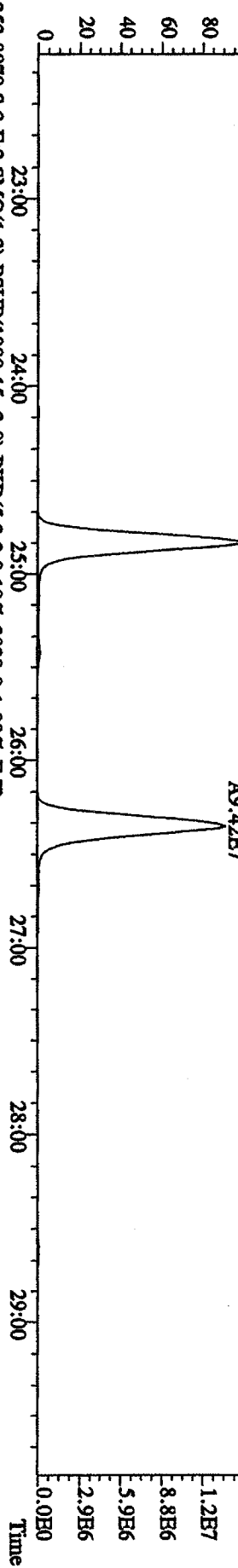
File:12AP104D5 #1-605 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRES8290A
 339.8597 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,676,0,1,00%,F,T)
 100% A9.70B6



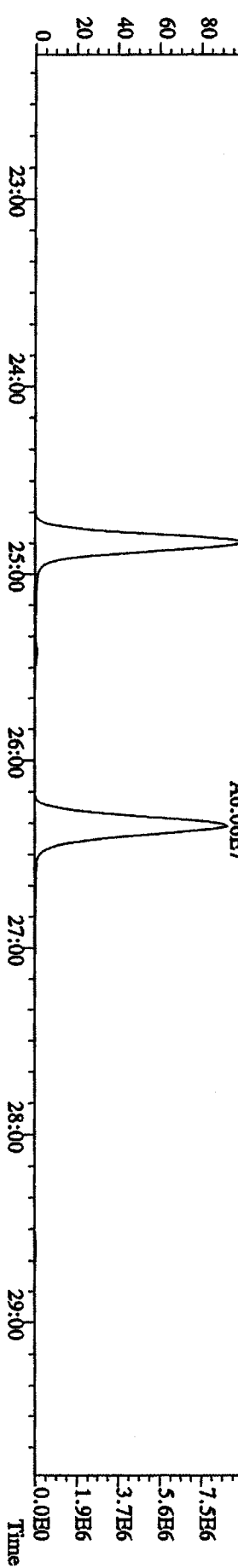
341.8567 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1276,0,1,00%,F,T)
 100% A6.39B6



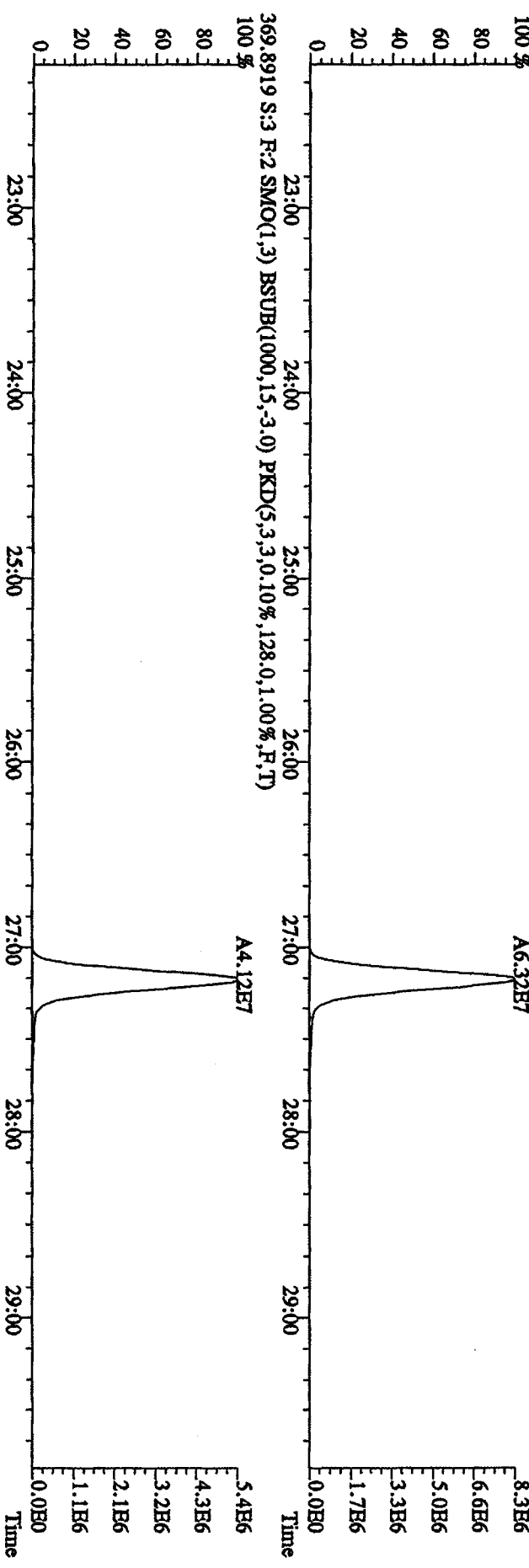
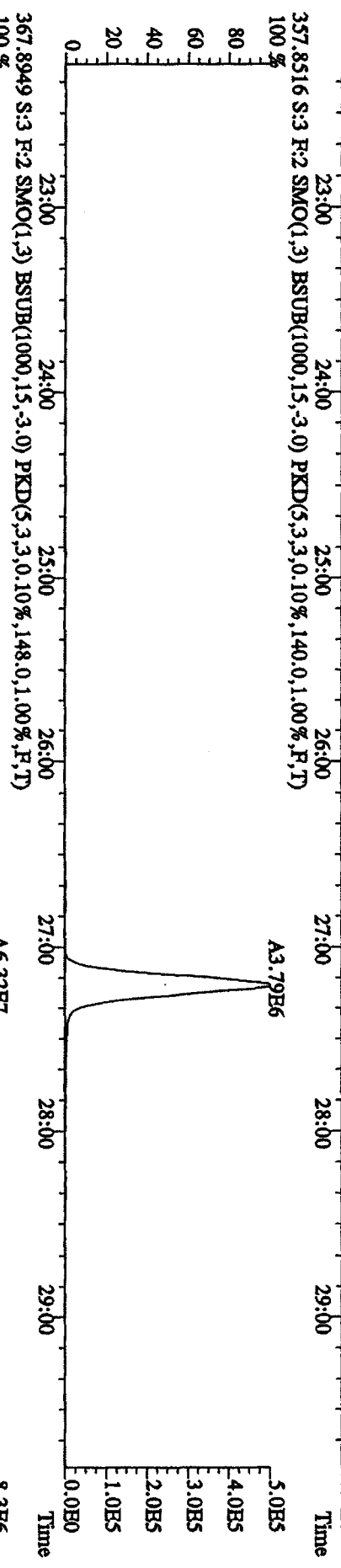
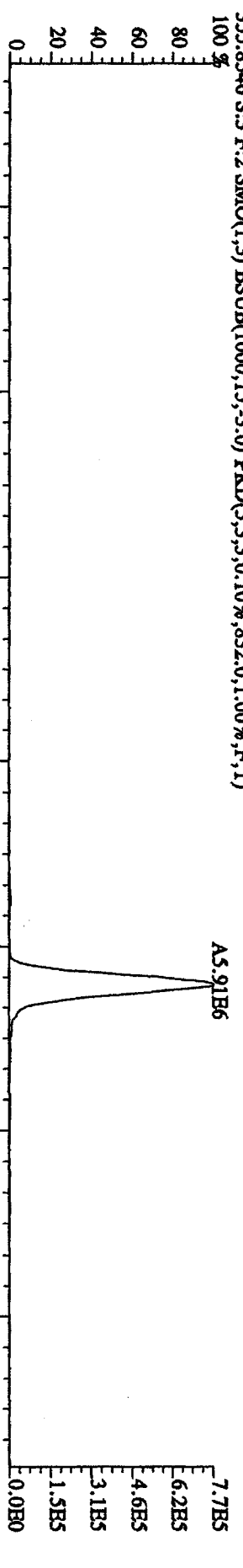
351.9000 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3636,0,1,00%,F,T)
 100% A9.57B7



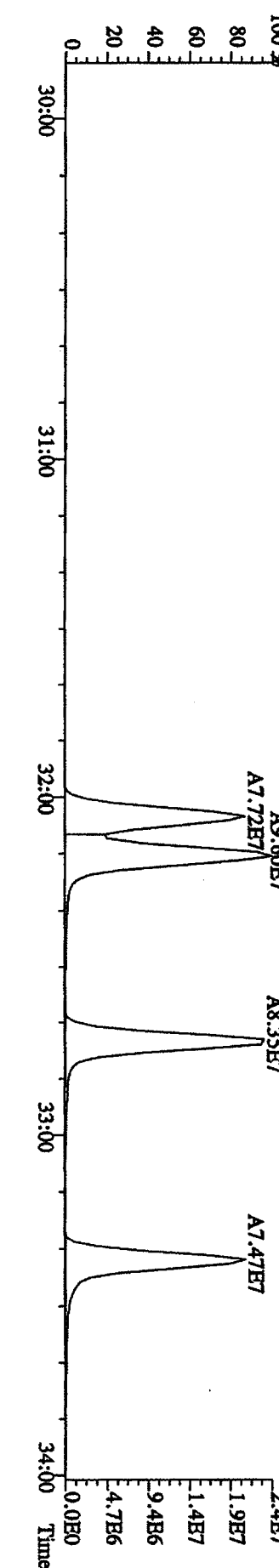
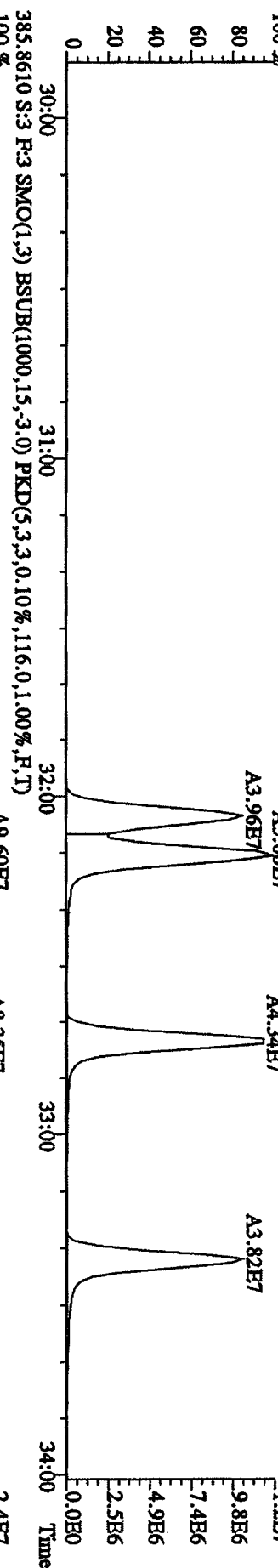
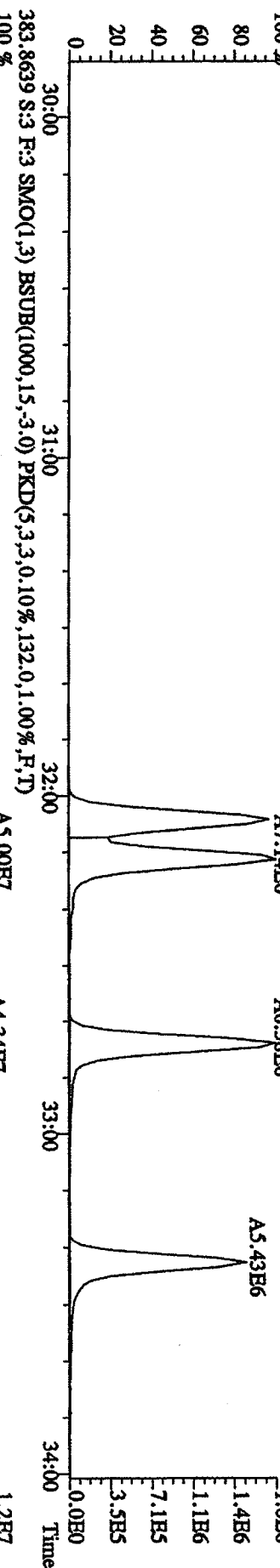
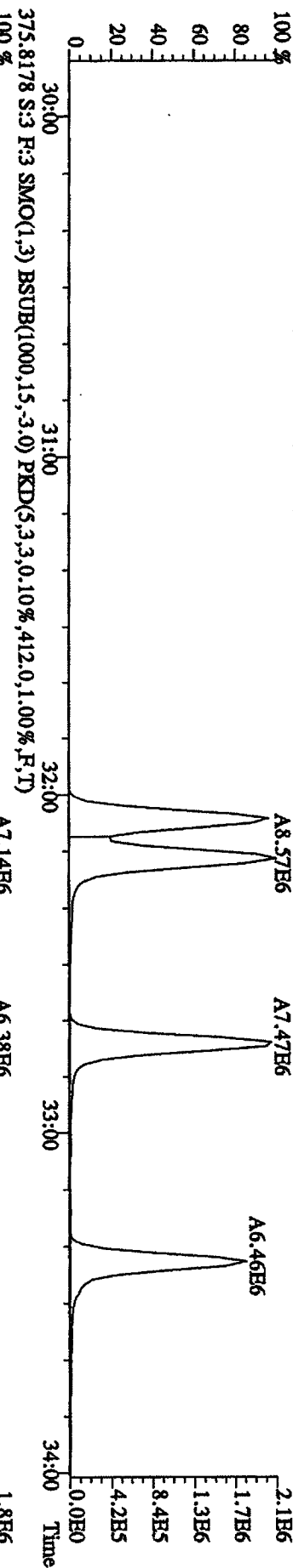
353.8970 S:3 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3028,0,1,00%,F,T)
 100% A6.18B7



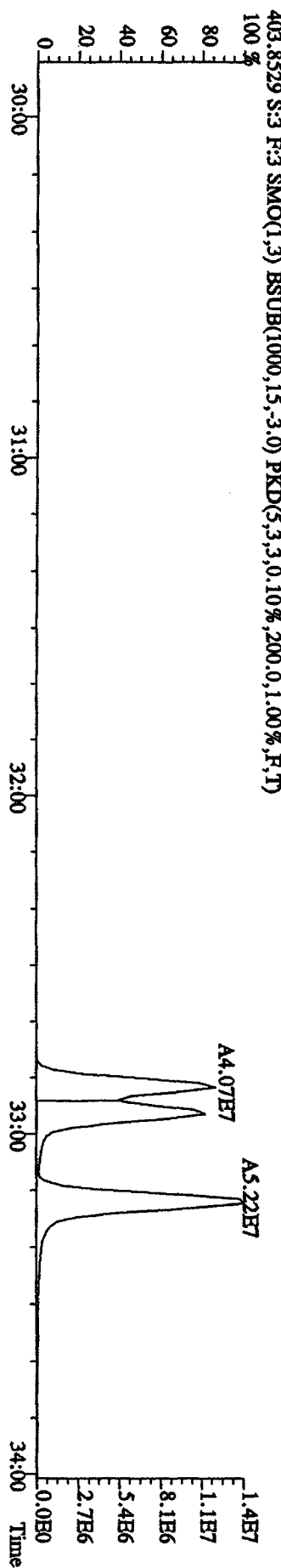
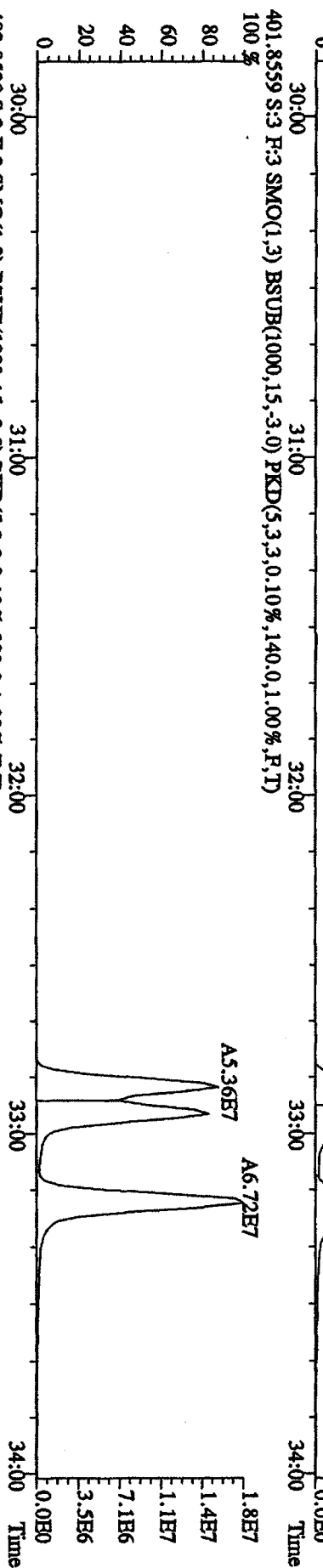
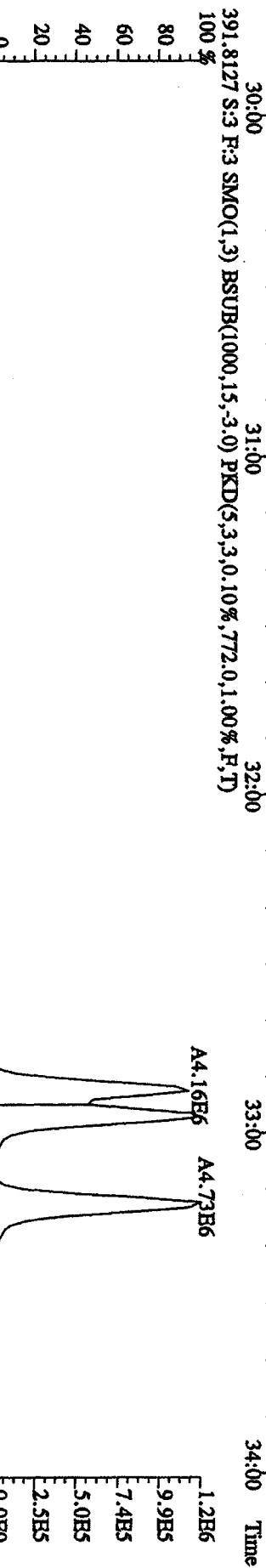
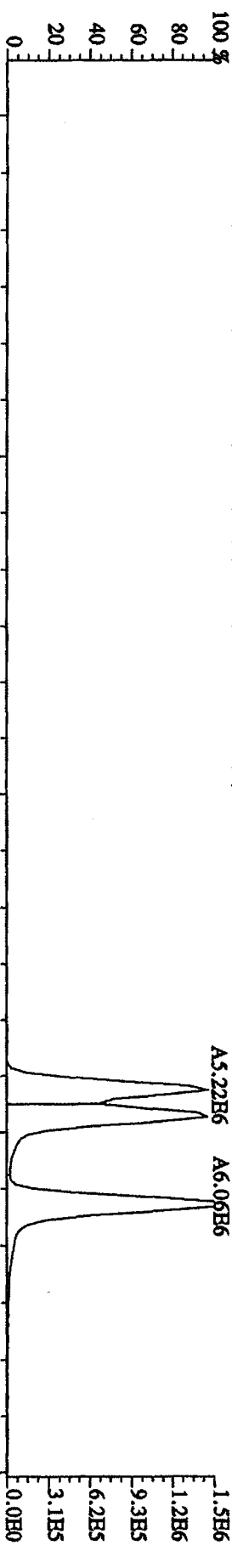
File:12AP104D5 #1-605 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRES8290A
 355.8546 S:3 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,832.0,1.00%,F,T) 100%



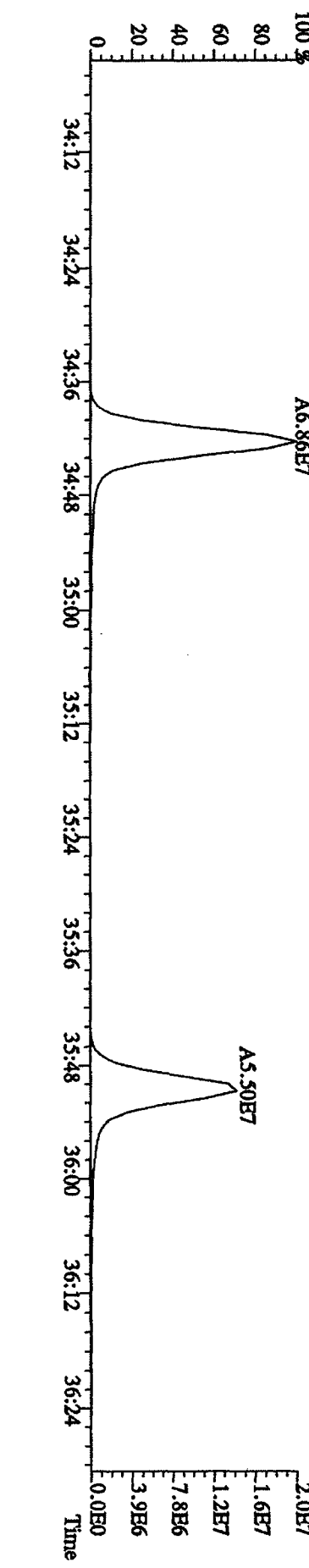
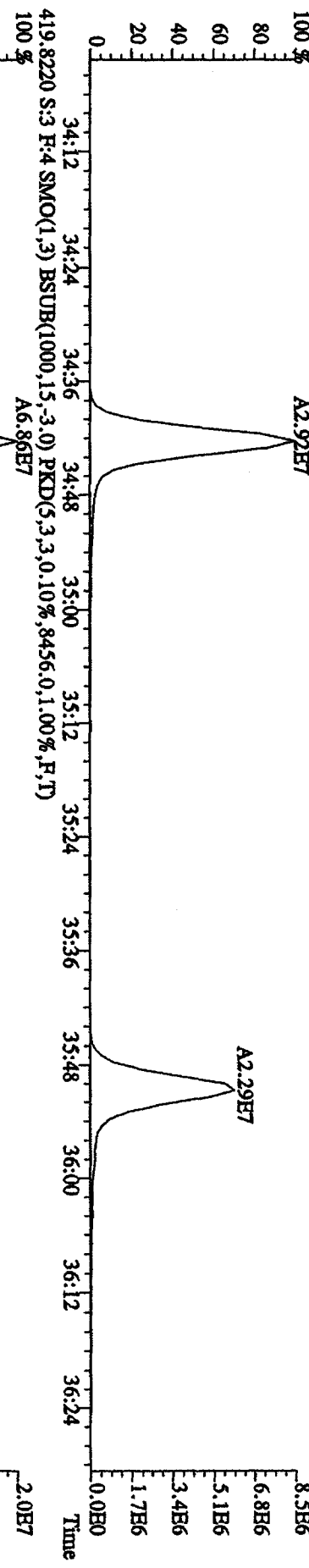
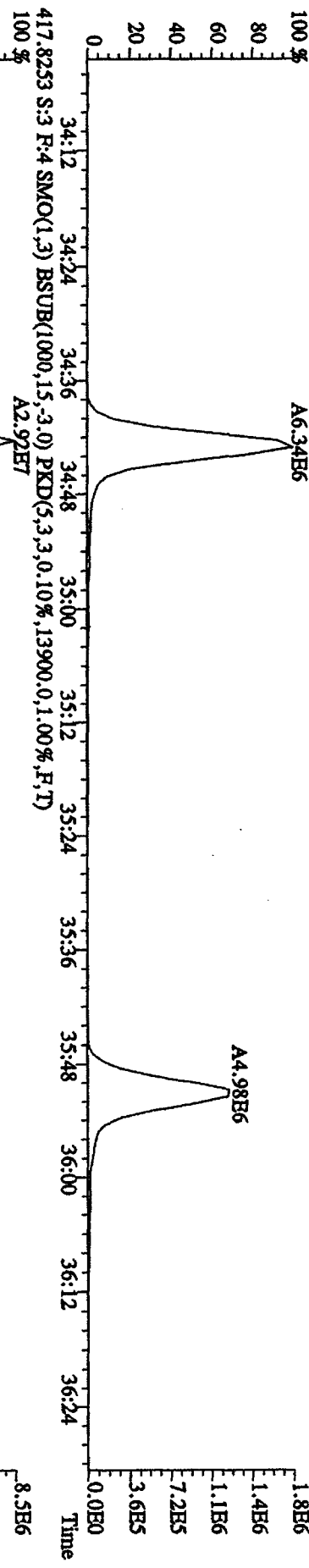
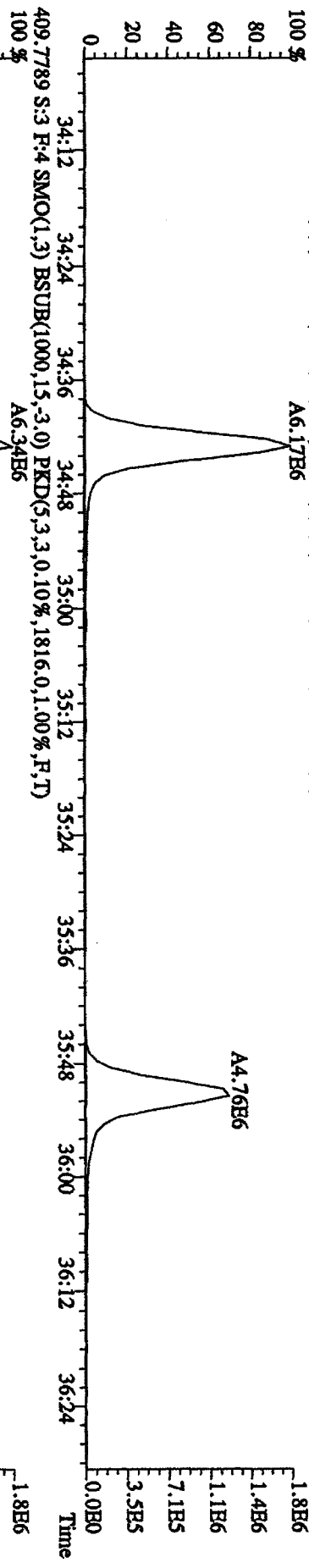
File:12AP104D5 #1-317 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRES8290A
 373.8208 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,808.0,1.00%,F,T)



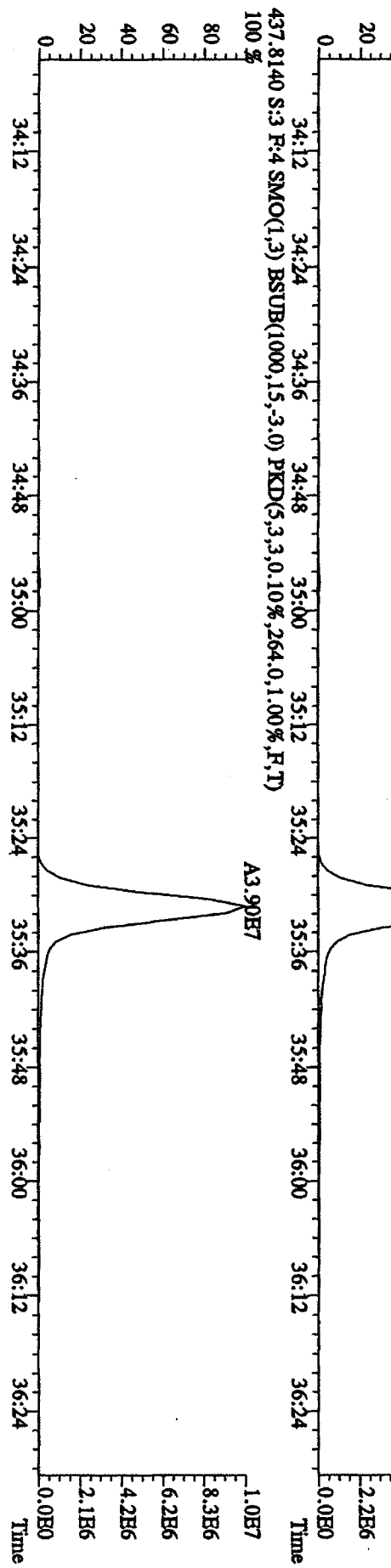
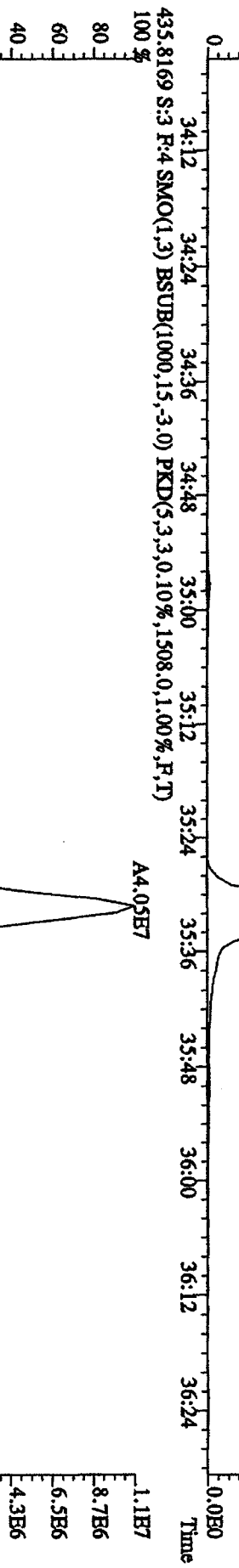
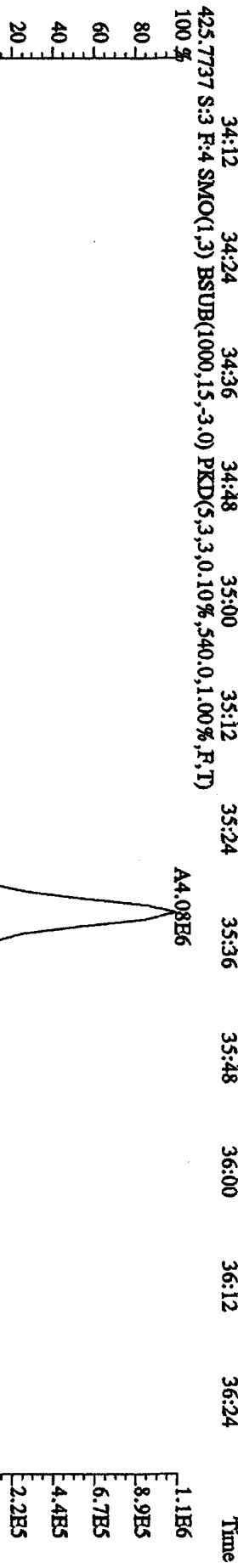
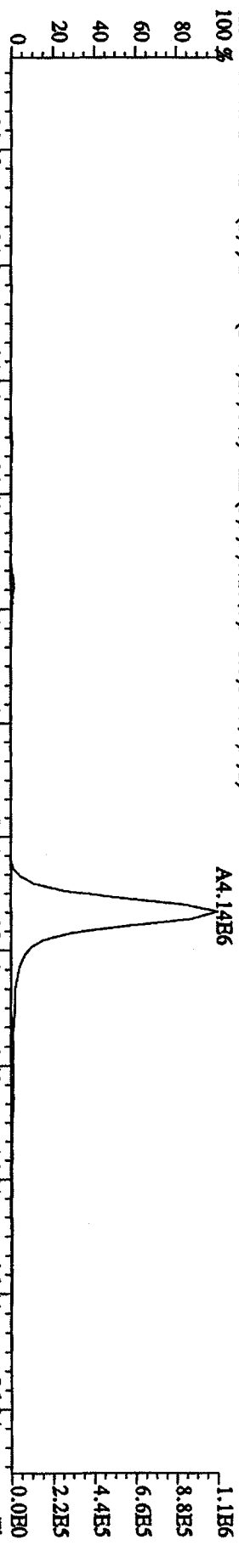
File:12AP104D5 #1-317 Acq:12-APR-2010 10:04:44 GC HF+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:ST0412A :CS-2.09DXN423 Exp:DIOXINRES8290A
 389.8157 S:3 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,532.0,1.00%,F,T)
 100 %



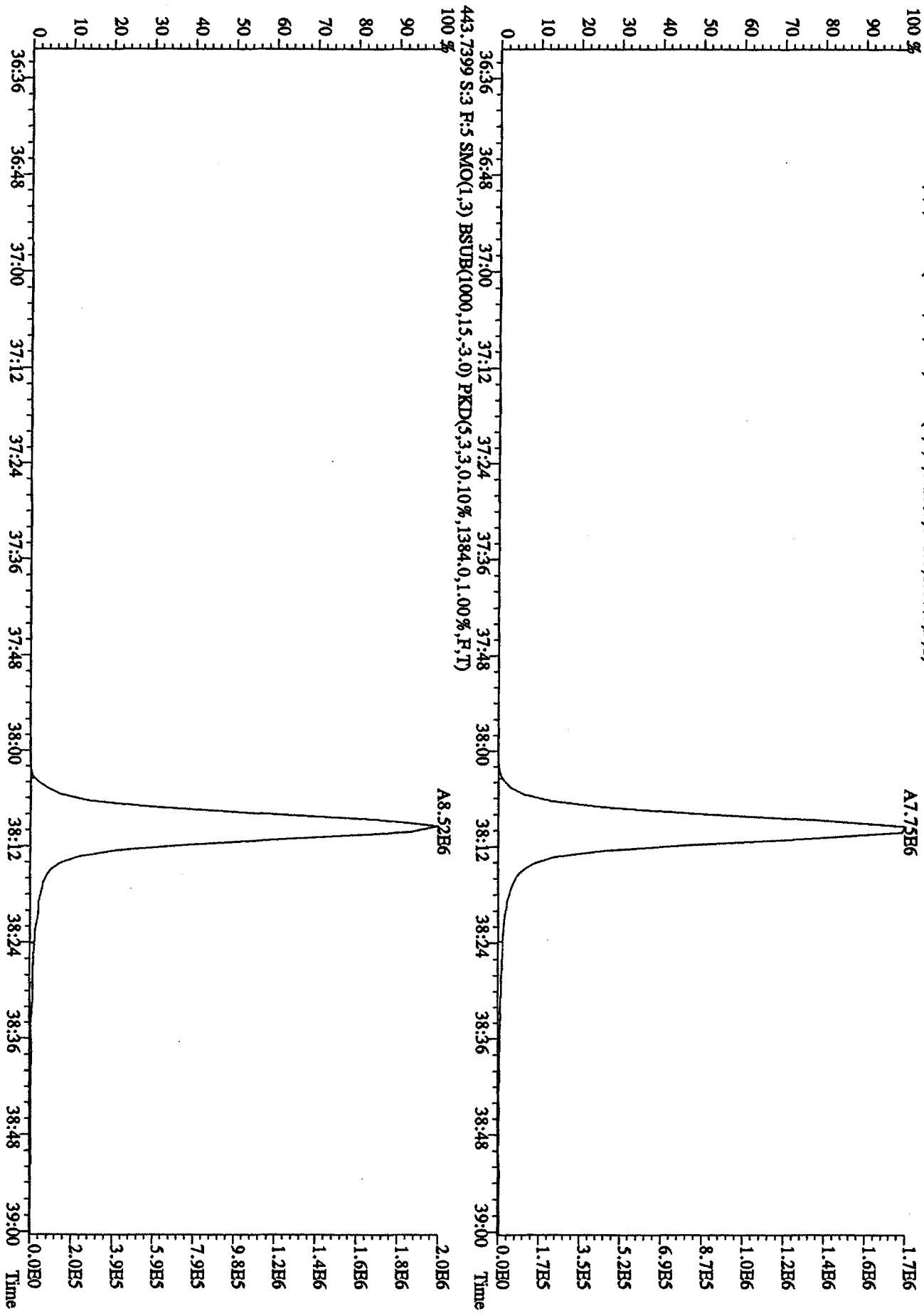
File:12AP104D5 #1-198 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRES8290A
 407.7818 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,5260.0,1.00%,F,T)



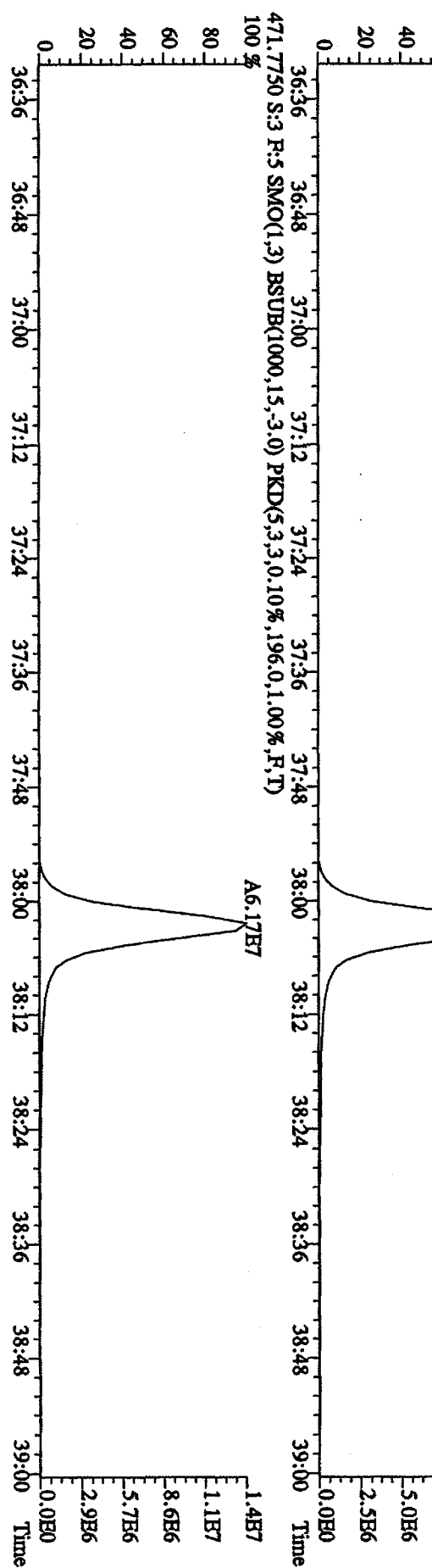
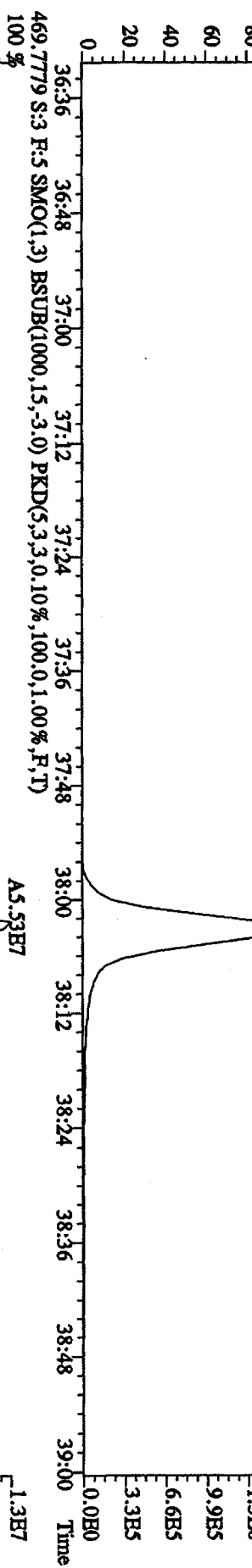
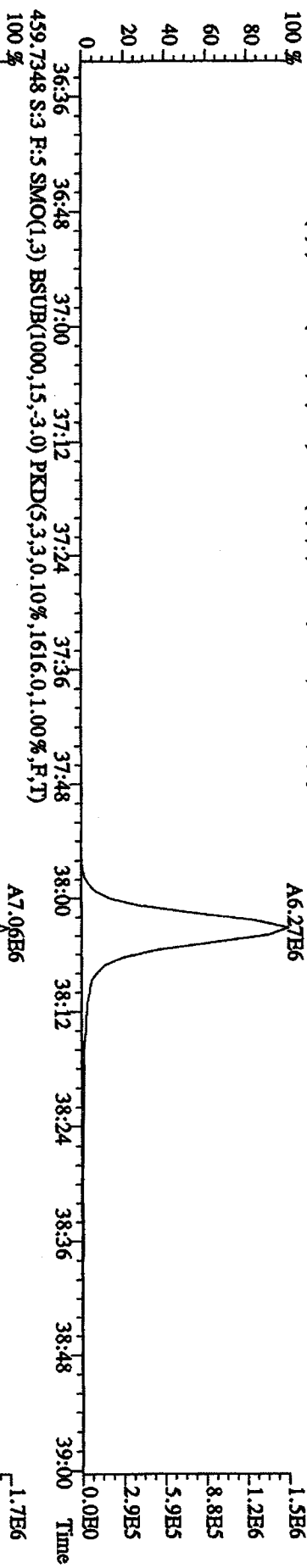
File: 12AP104D5 #1-198 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text: ST0412A :CS-2 09DXN423 Exp: DIOXINRESS8290A
 423.7766 S:3 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,956.0,1.00%,F,T)



File: 12AP104D5 #1-190 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text: ST0412A :CS-2 09DXN423 Exp: DIOXINRES8290A
 441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1384,0,1,1.00%,F,T)
 100%



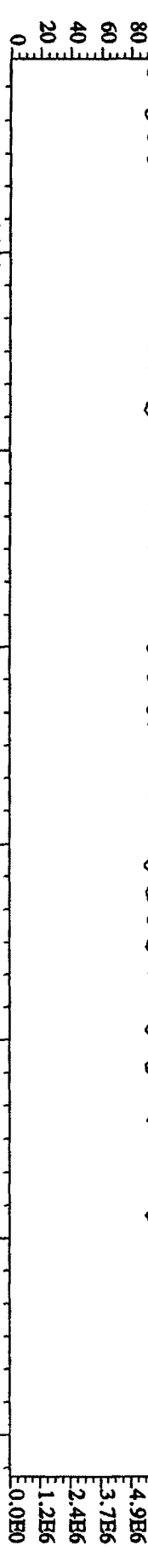
File: 12AP104D5 #1-190 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#3 Text: ST0412A :CS-2 09DXN423 Exp: DIOXINRES8290A
 457.7377 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,604.0,1.00%,F,T)



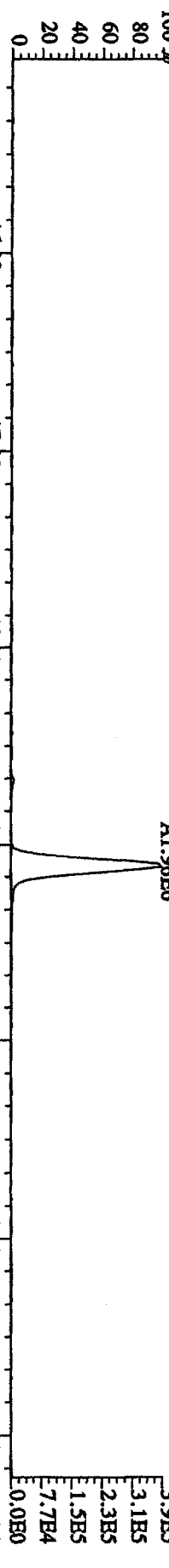
File:12AP104D5 #1-435 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB

Sample#3 Text:ST0412A :CS-2-09DXN423 Exp:DIOXINRHS8290A

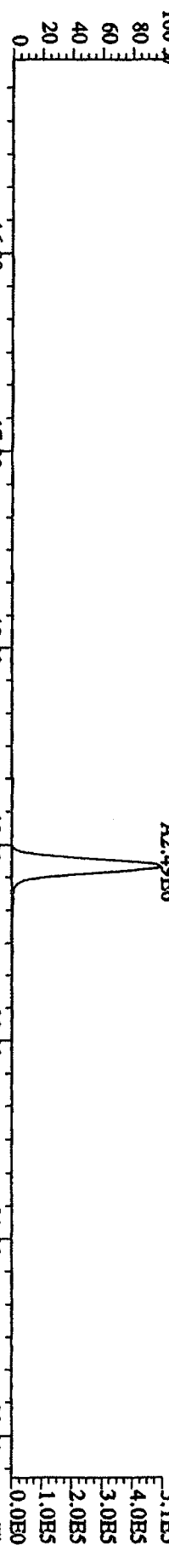
354.9792 S:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 16:00 16:42 17:09 17:51 18:29 19:00 19:26 19:52 20:21 20:43 21:07 21:36 22:01 6.1B6



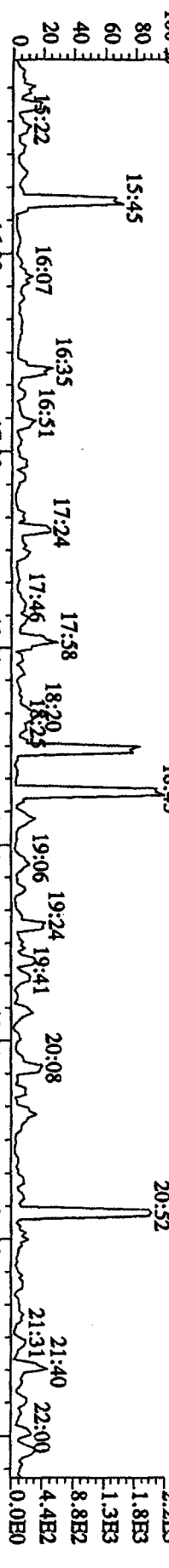
303.9016 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,616.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 3.9B5



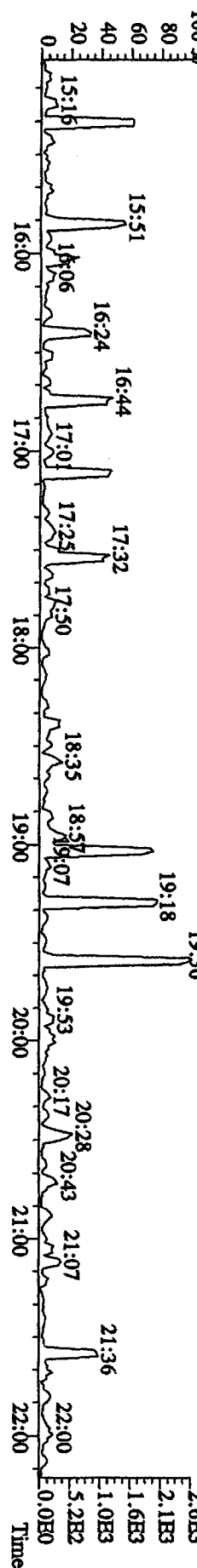
305.8987 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1644.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 5.1B5



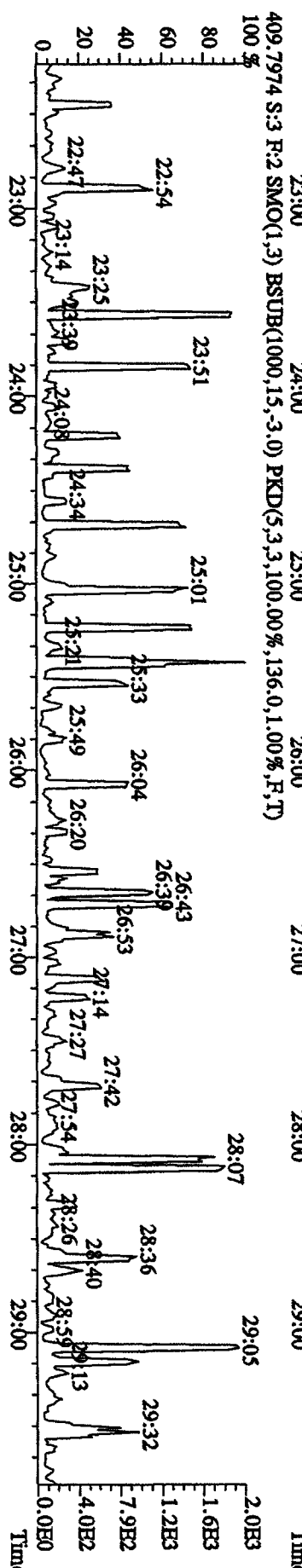
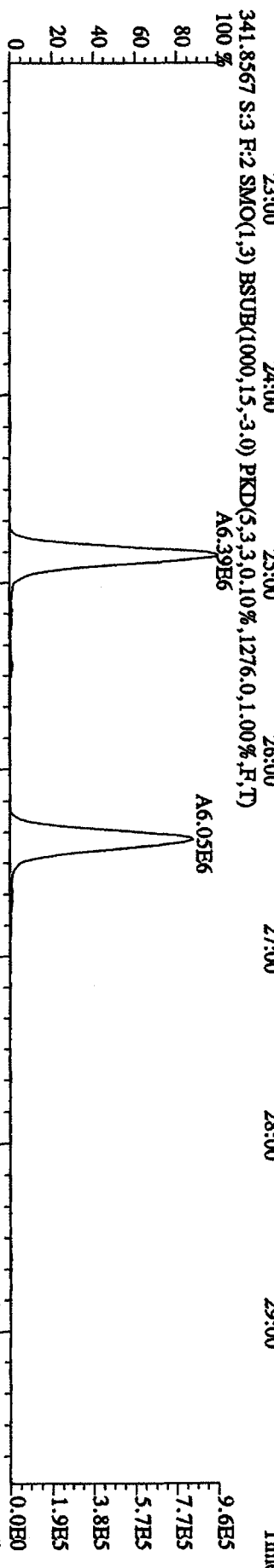
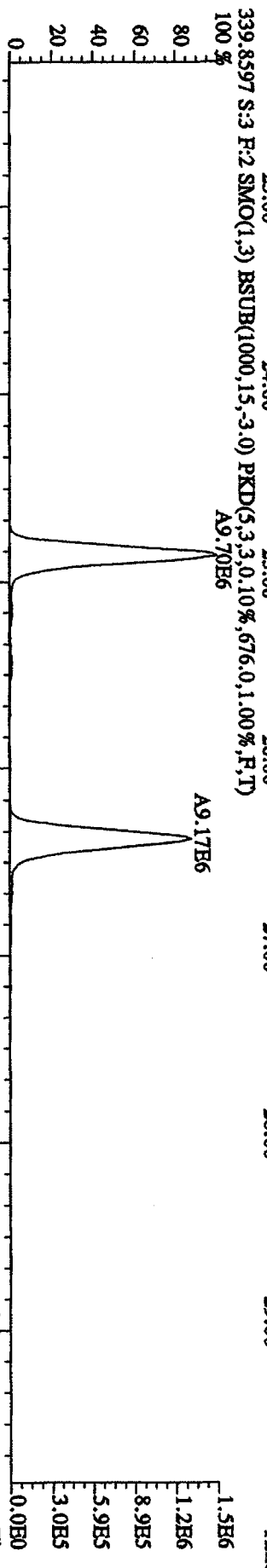
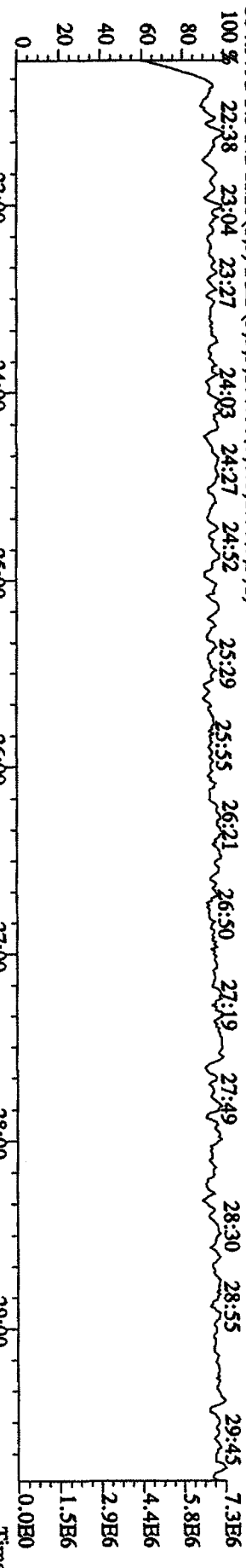
375.8364 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,132.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 2.2B3



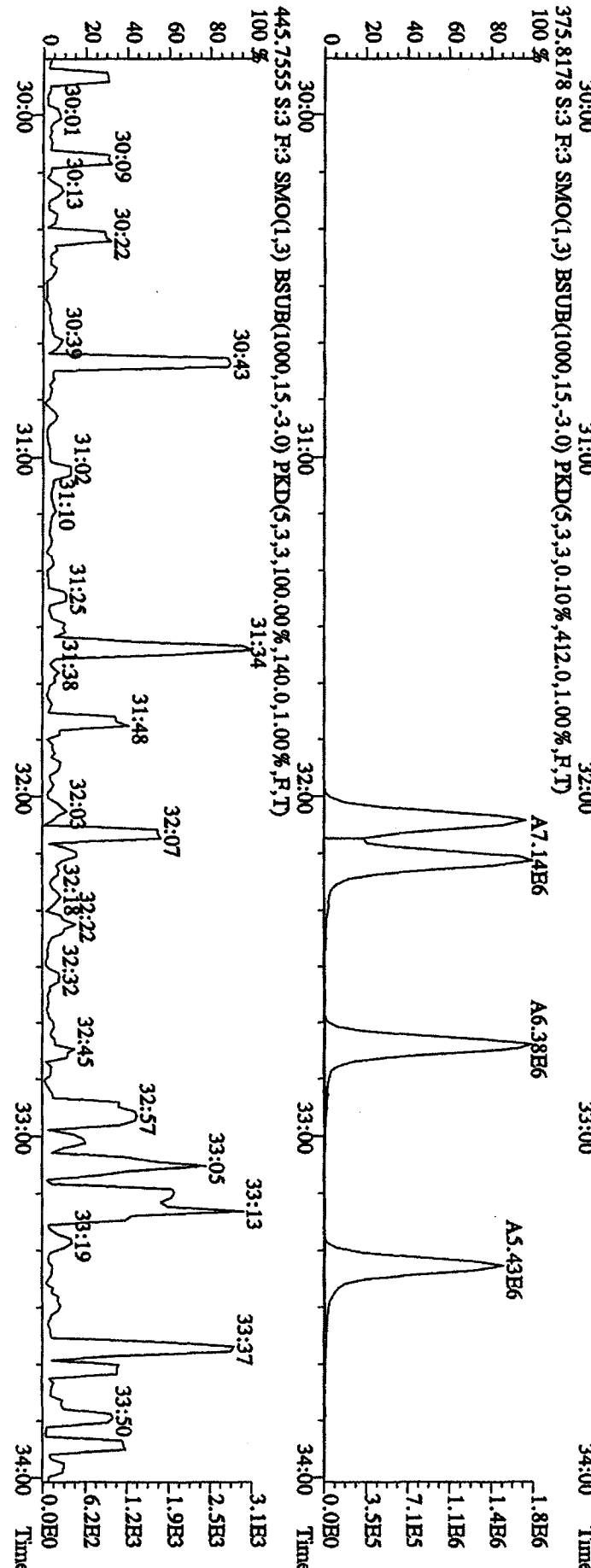
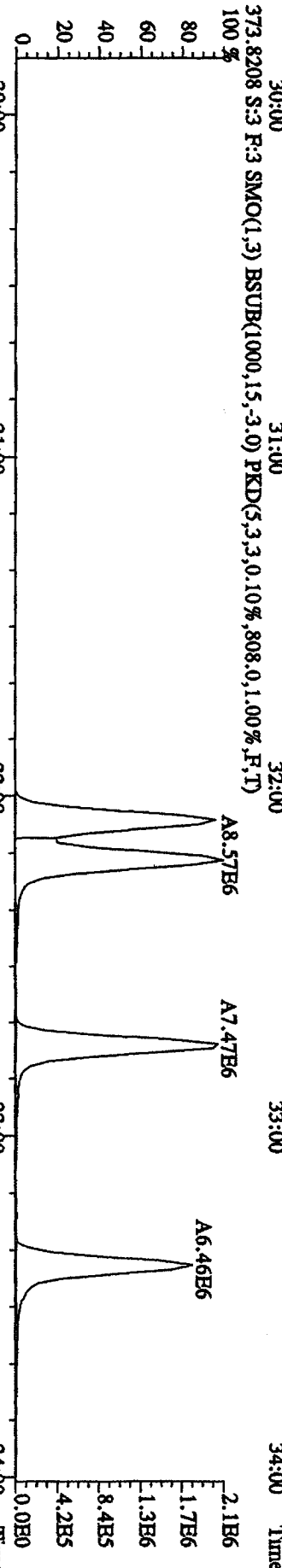
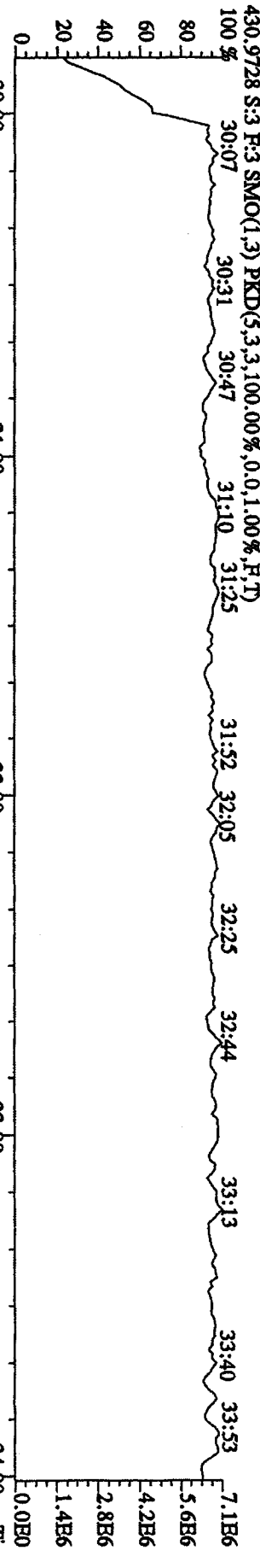
409.7974 S:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,96.0,1.00%,F,T) 16:00 17:00 18:00 19:00 20:00 21:00 22:00 2.6B3



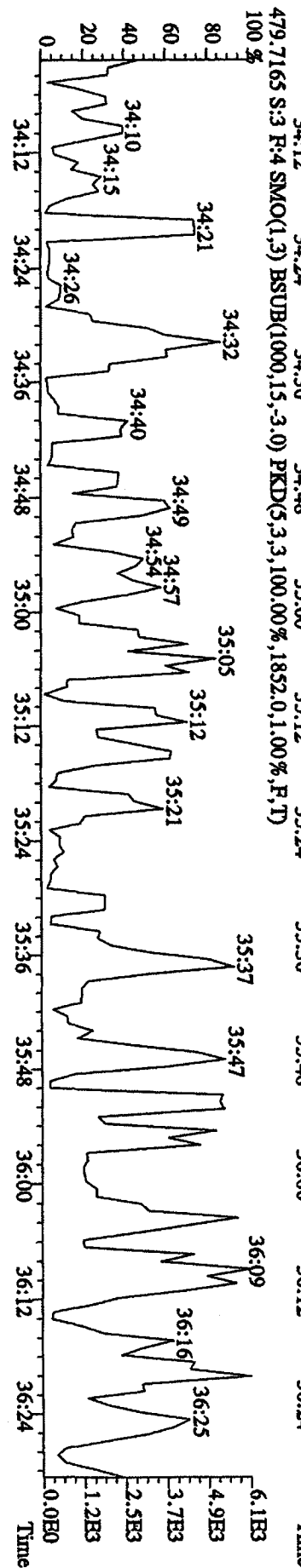
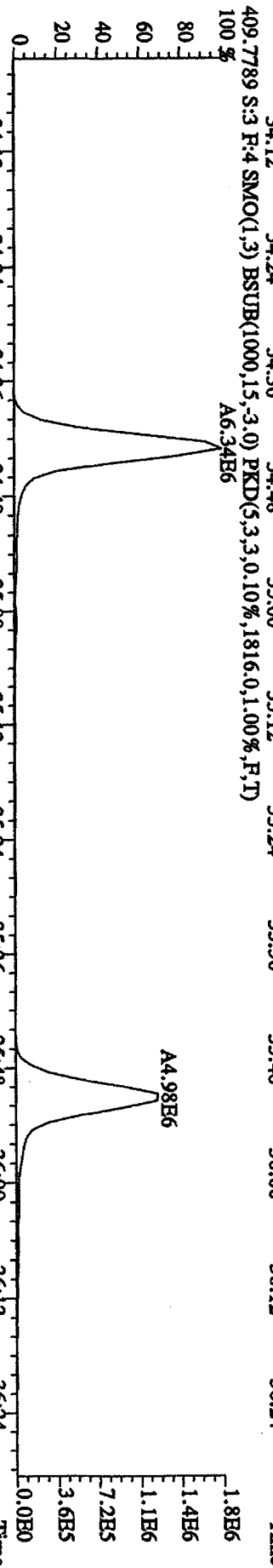
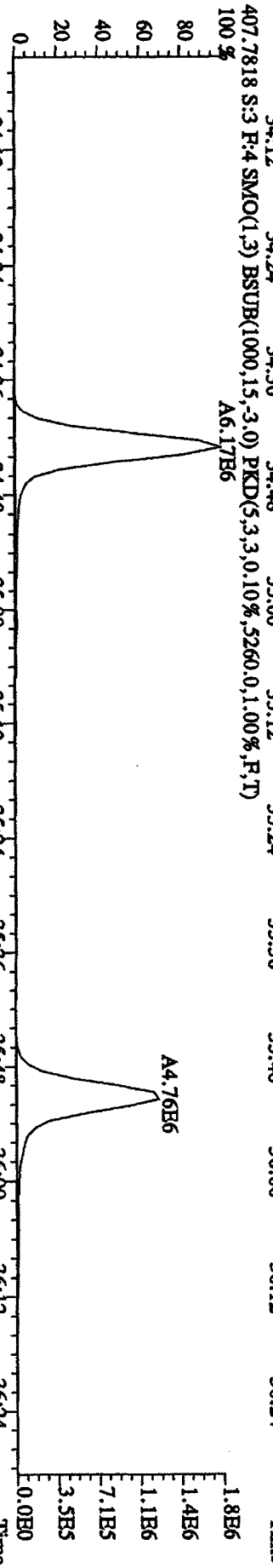
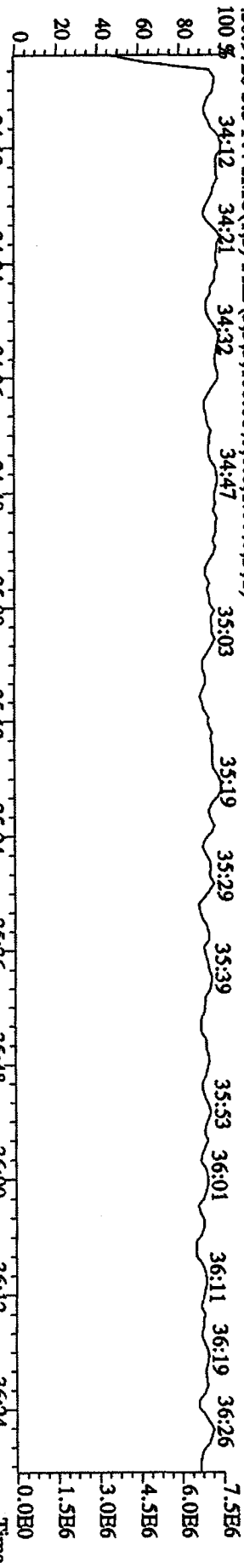
File: 12AP104D5 #1-605 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text: ST0412A :CS-2 09DXN423 Exp: DIOXINRES8290A



File: 12AP104D5 #1-317 Acq: 12-APR-2010 10:04:44 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#3 Text: ST0412A :CS-2 09DXN423 Exp: DIOXINRES8290A



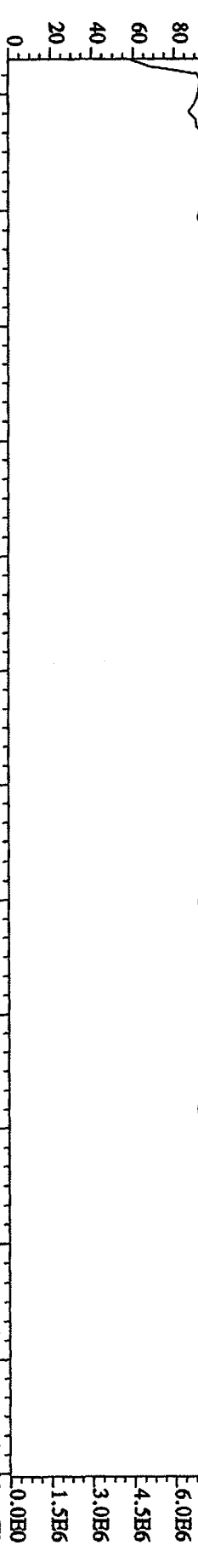
File:12AP104D5 #1-198 Acq:12-APR-2010 10:04:44 GC EI+ Voltage SFR Autospec-UtimaB
 Sample#3 Text:ST0412A :CS-2 09DXN423 Exp:DIOXINRES8290A



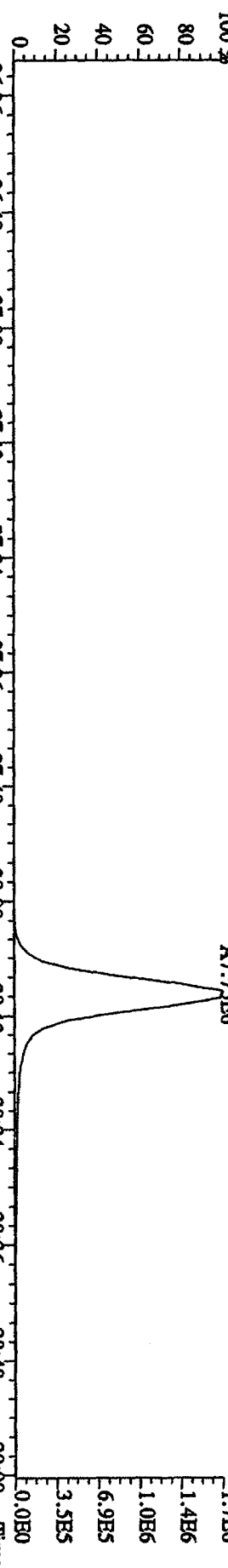
File:12AP104D5 #1-190 Acq:12-APR-2010 10:04:44 GC HI+ Voltage SIR Autospec-UtimaB

Sample#3 Text:ST0412A :CS-2-09DDXN423 Exp:DIOXINRES8290A

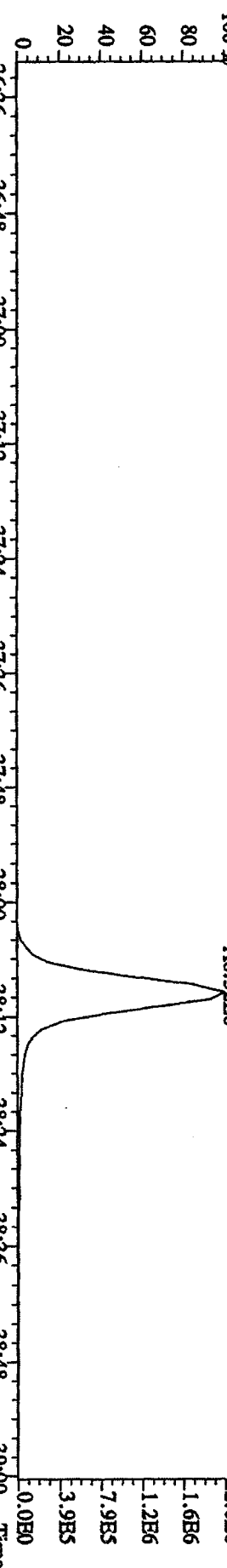
442.9728 S:3 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



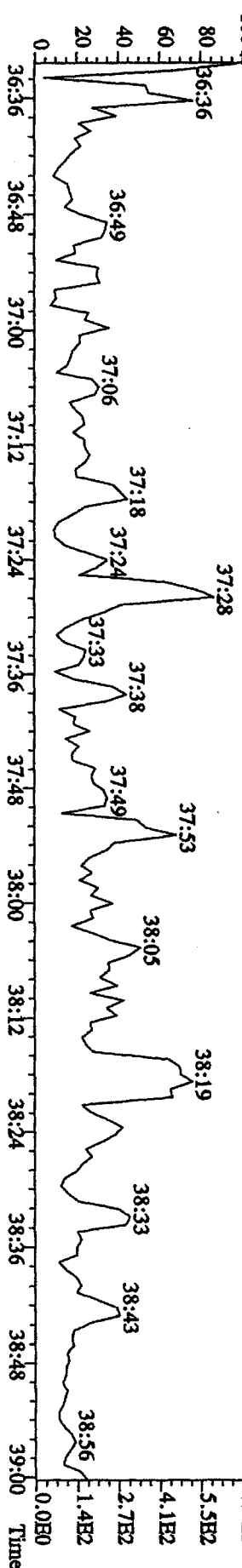
441.7428 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,840.0,1.00%,F,T)



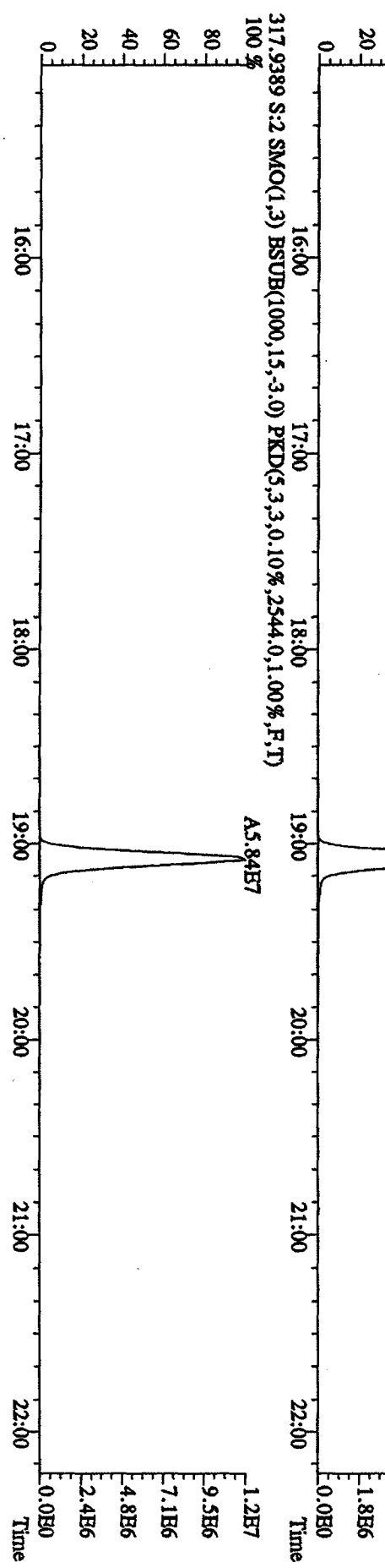
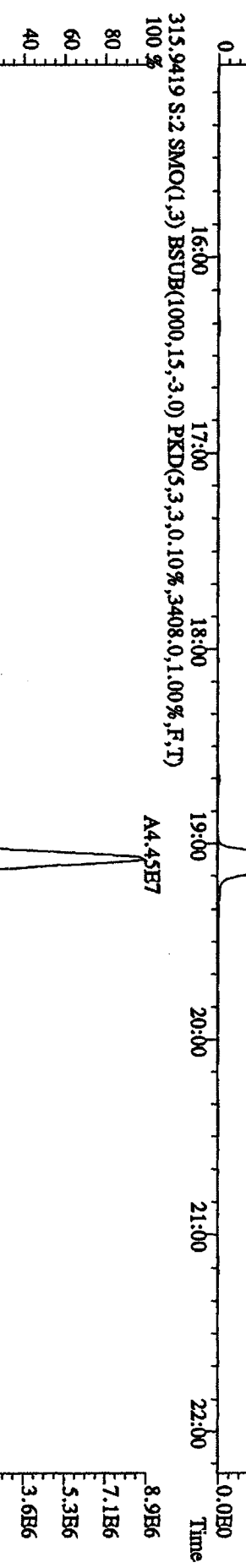
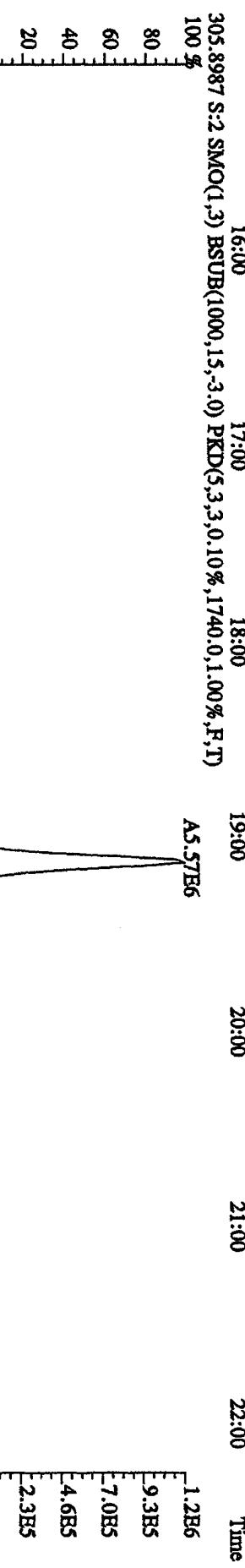
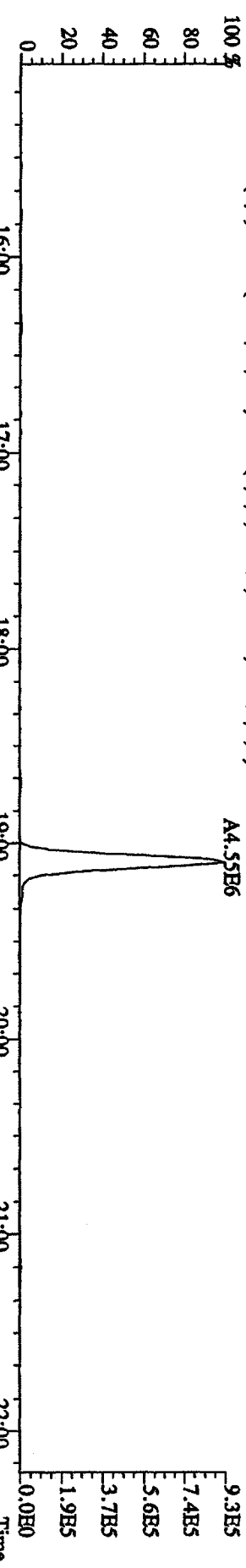
443.7399 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1384.0,1.00%,F,T)



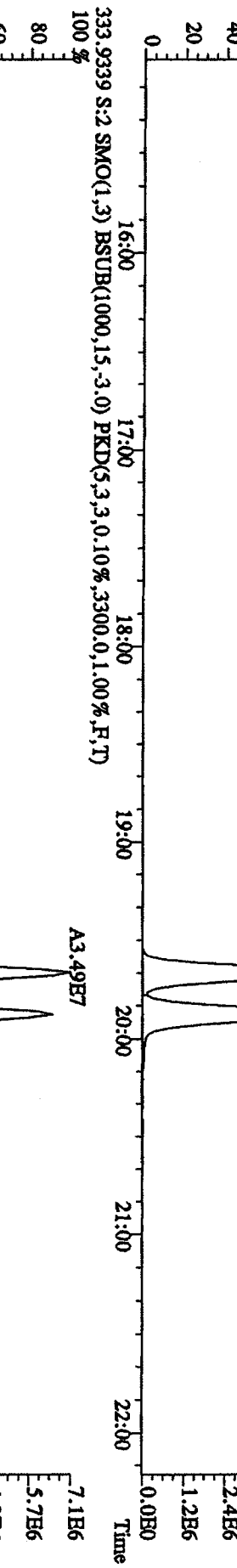
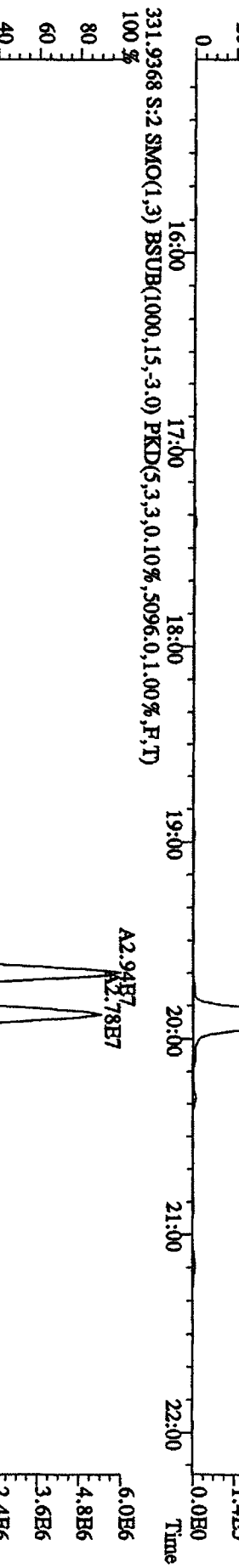
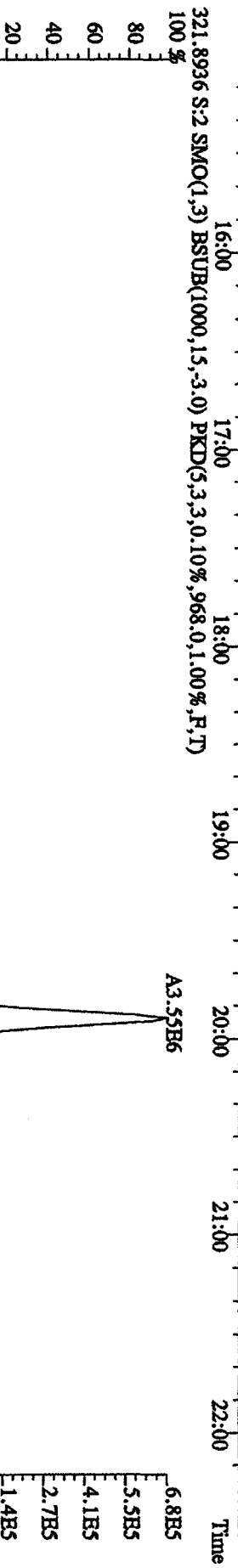
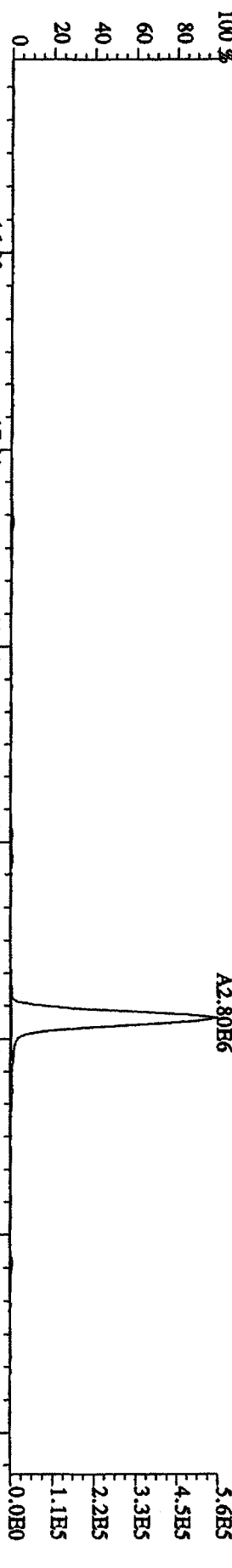
513.6775 S:3 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,200.0,1.00%,F,T)



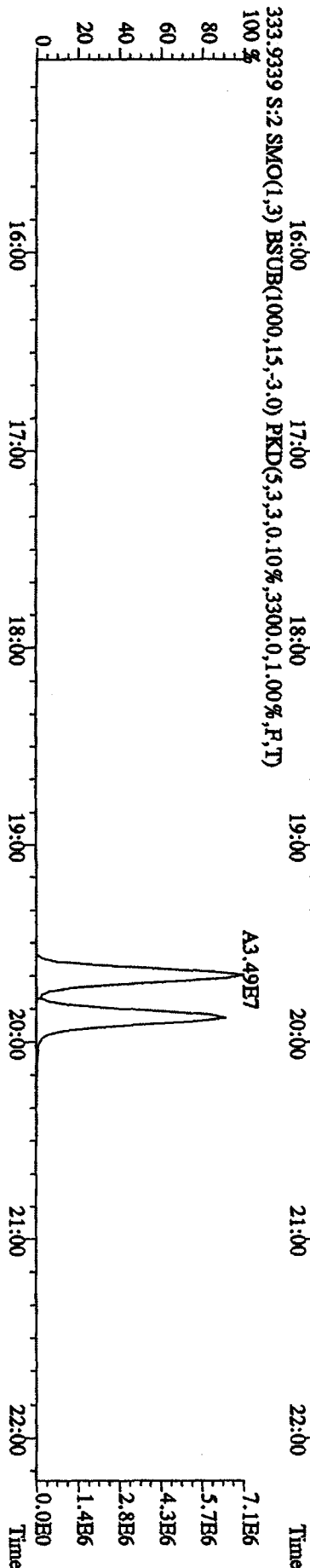
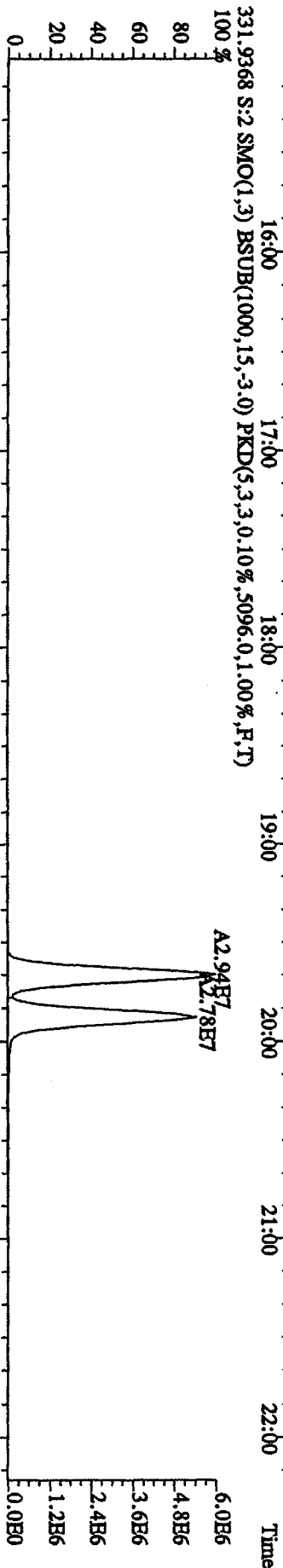
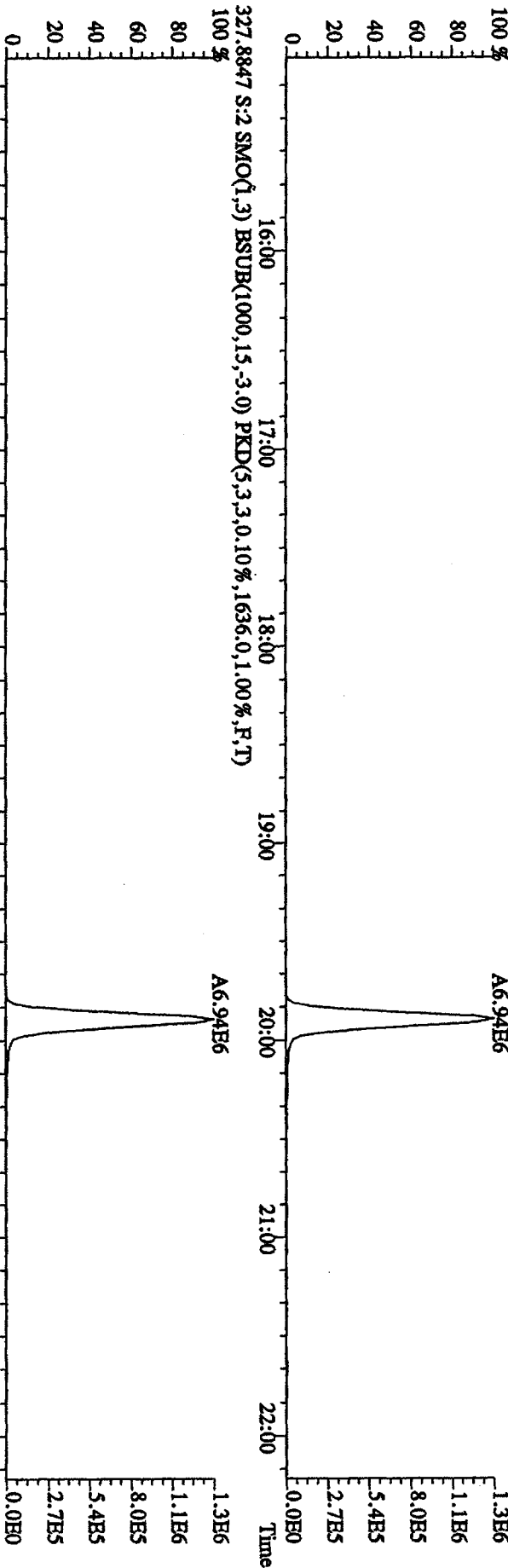
File:12AP104D5 #1-435 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A
 303.9016 S:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1208,0,1,00%,F,T)



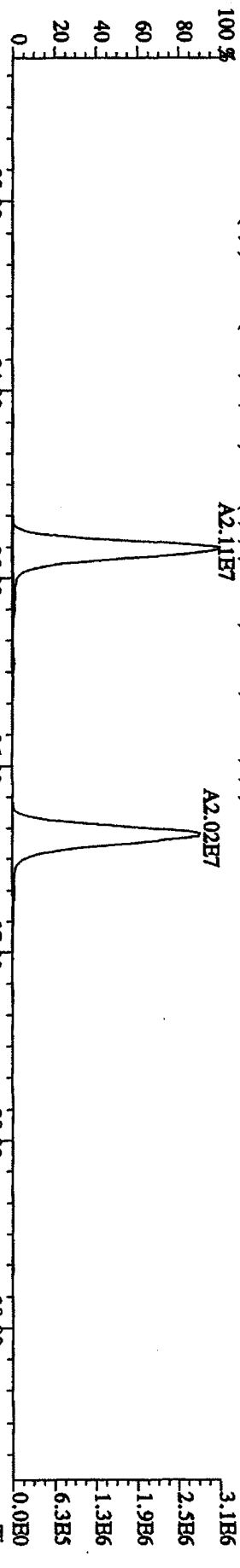
File: 12AP104D5 #1-435 Acq: 12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text: ST0412 :CS-3 10DXN111 Exp: DIOXINRES8290A
 319.8965 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,748,0,1,00%,F,T)



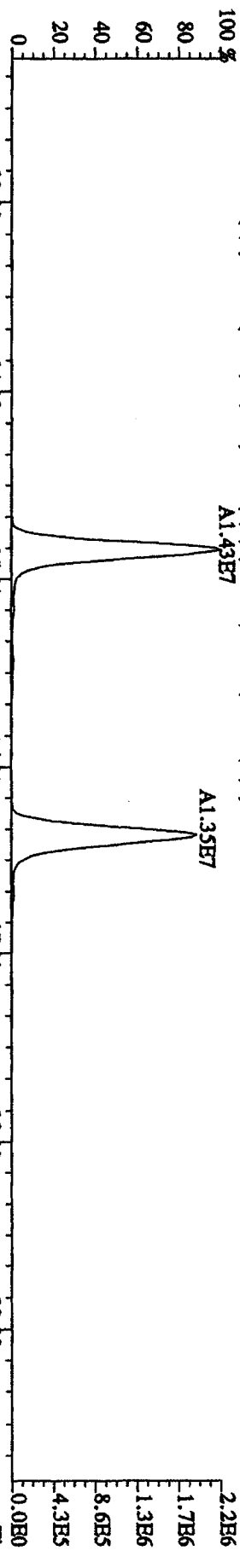
File:12AP104D5 #1-435 Acq:12-APR-2010 09:14:17 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A
 327.8847 S:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1636.0,1.00%,F,T) 100%



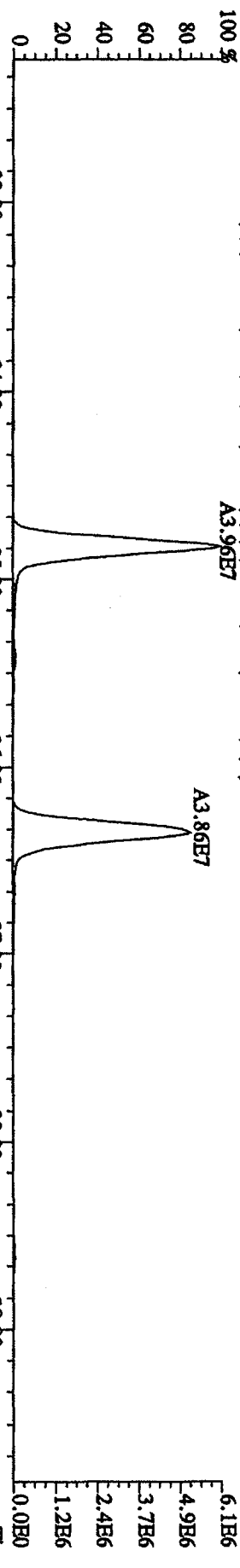
File: 12AP104D5 #1-604 Acq: 12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text: ST0412 :CS-3 10DXN111 Exp: DIOXINRES8290A
 339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1572,0,1,00%,F,T)
 100%



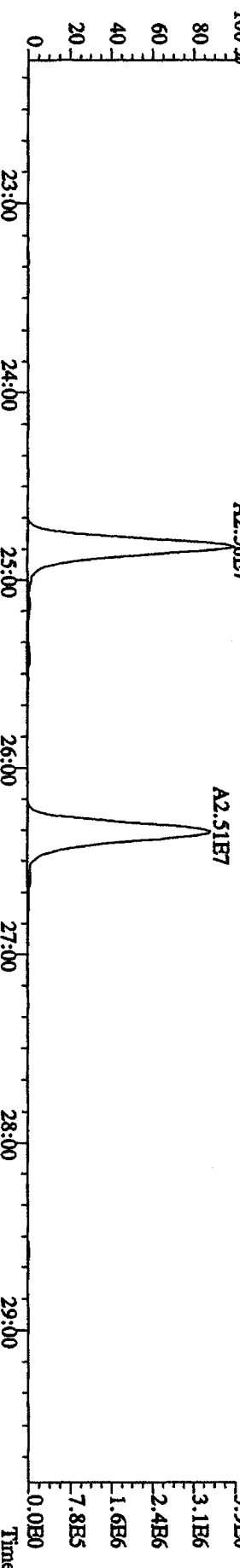
341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1216,0,1,00%,F,T)
 100%



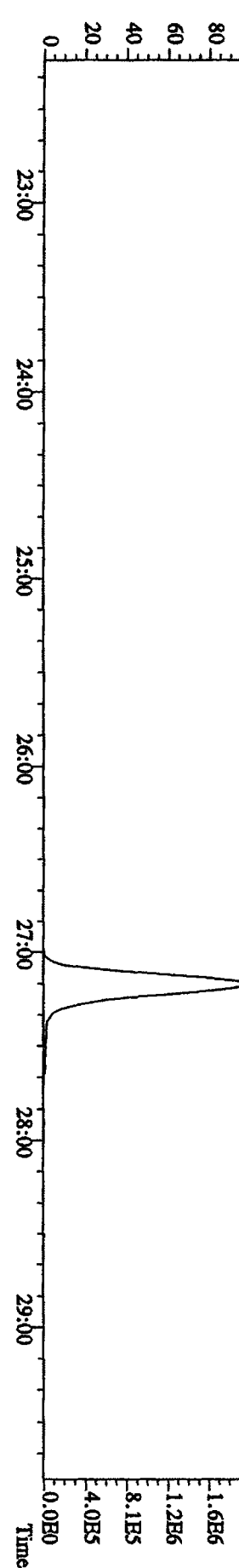
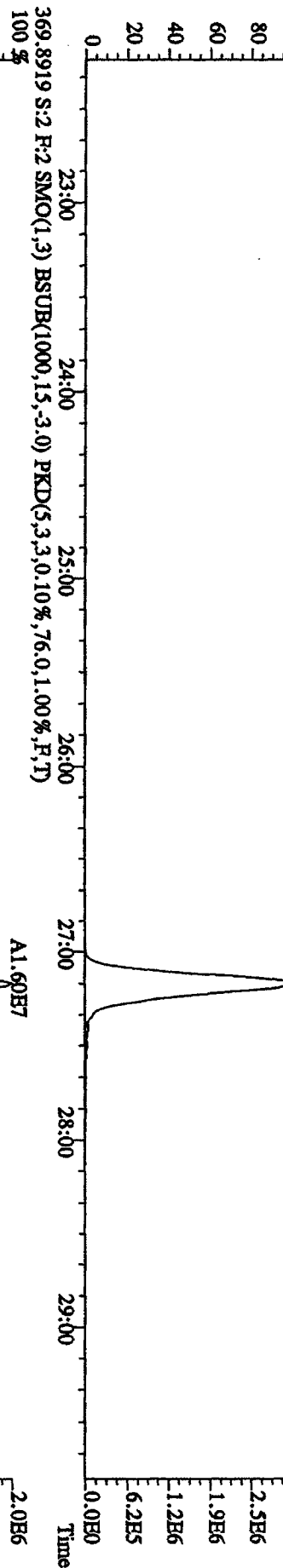
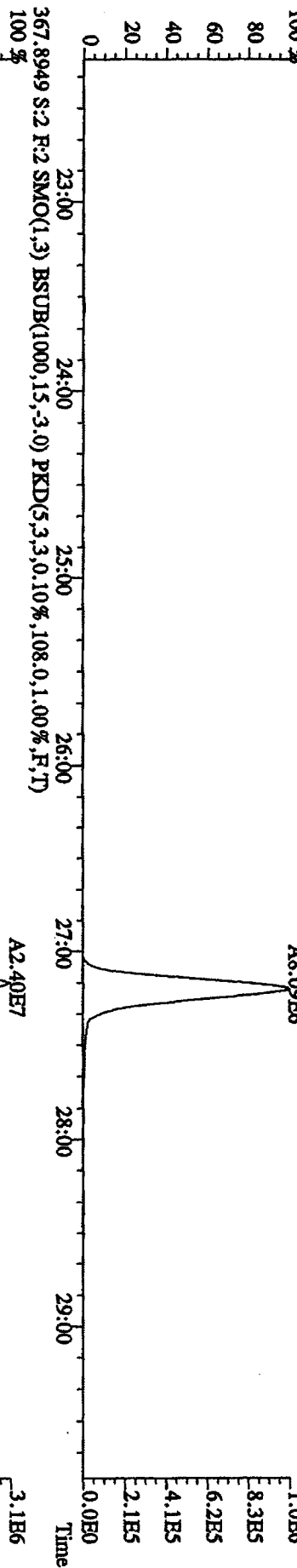
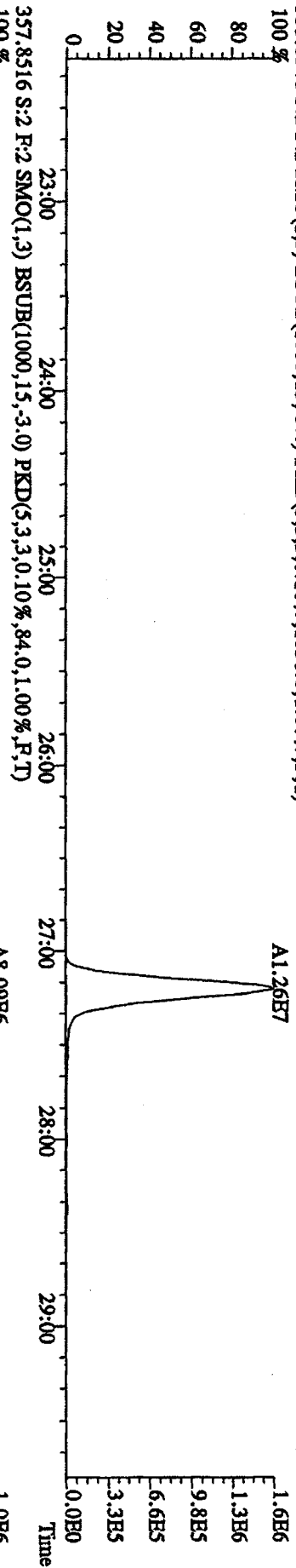
351.9000 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,88,0,1,00%,F,T)
 100%

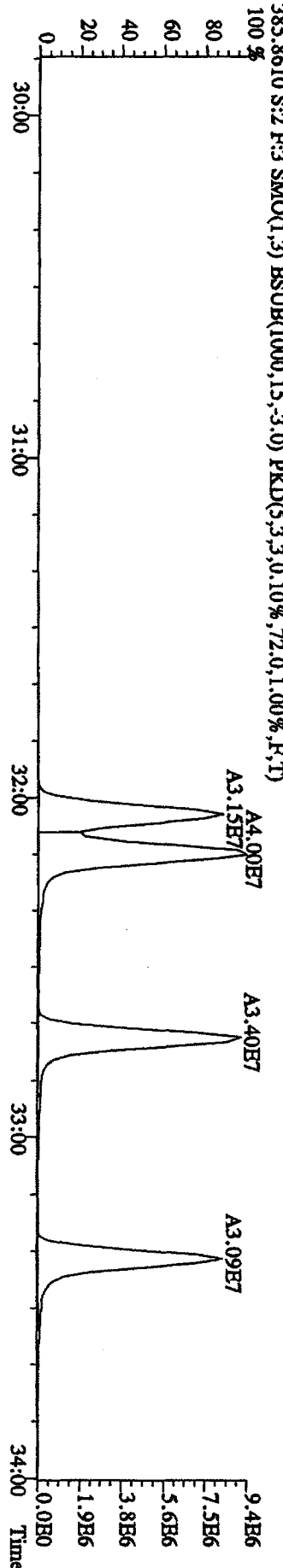
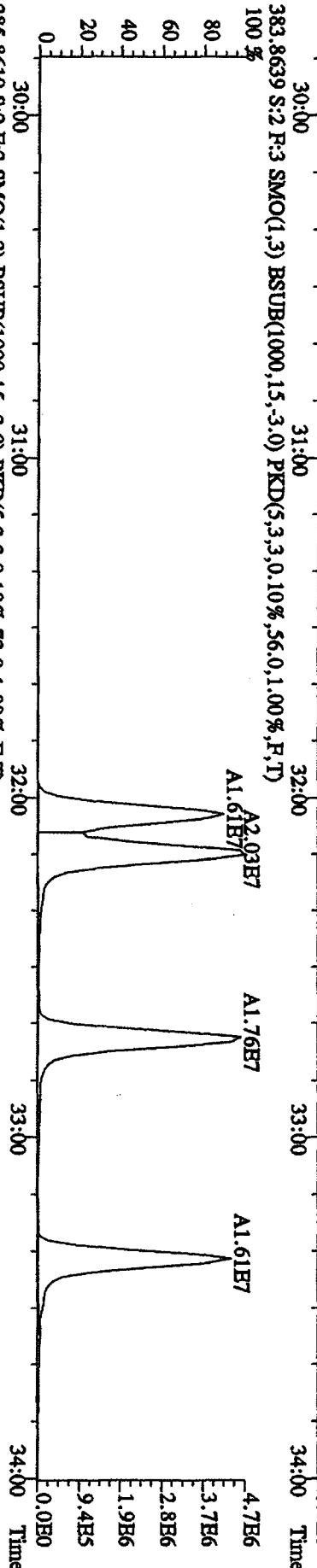
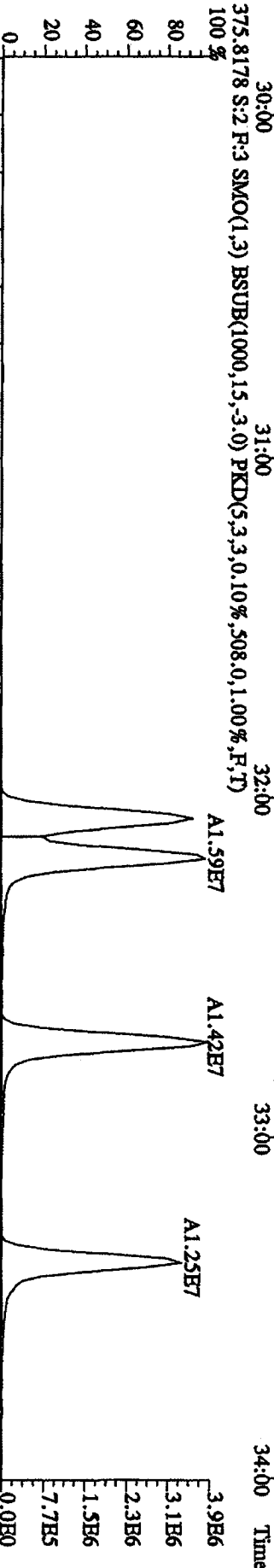
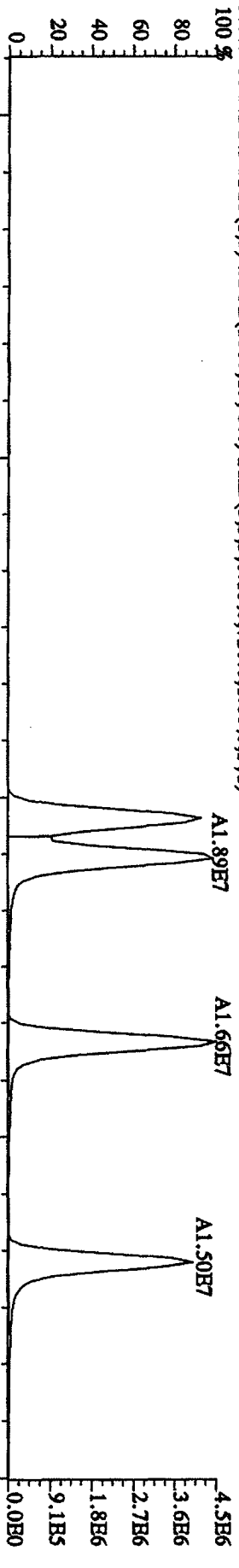


353.8970 S:2 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,104,0,1,00%,F,T)
 100%

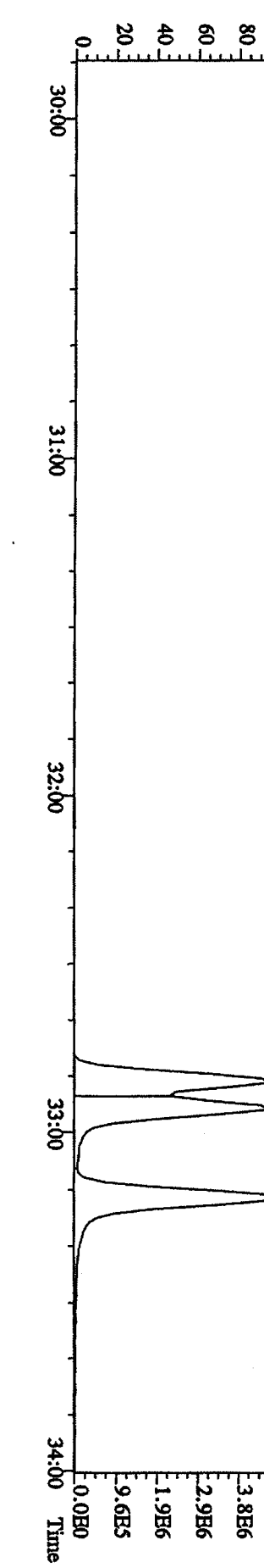
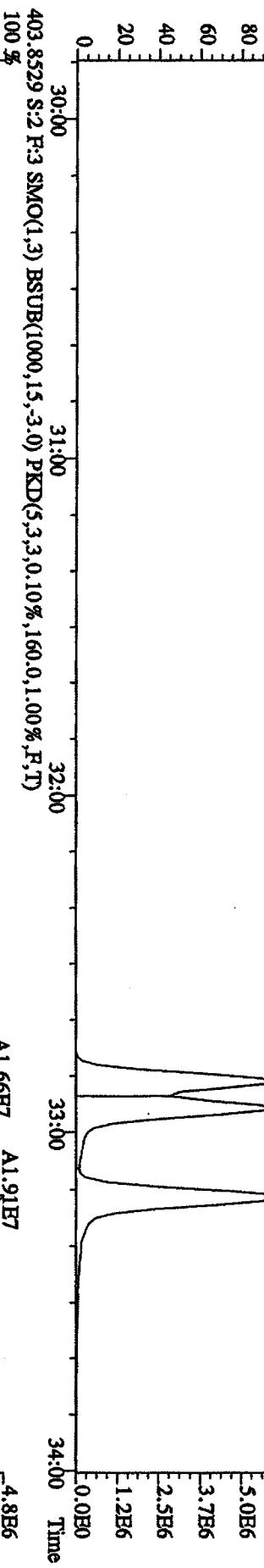
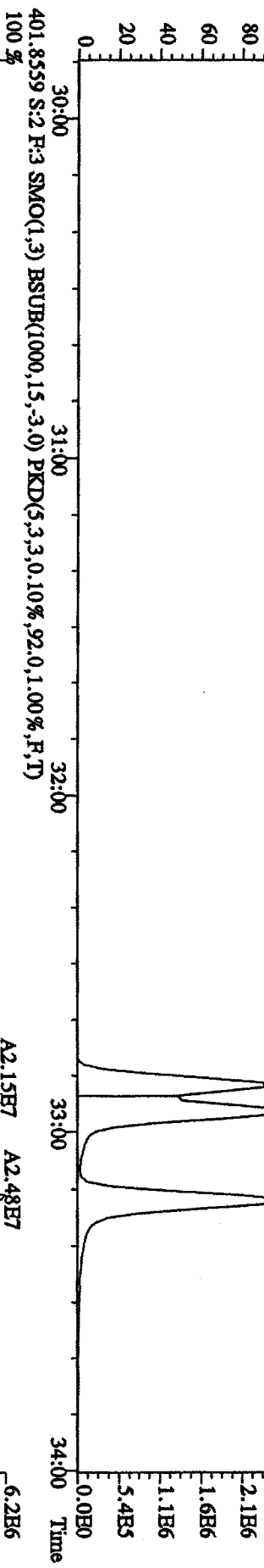
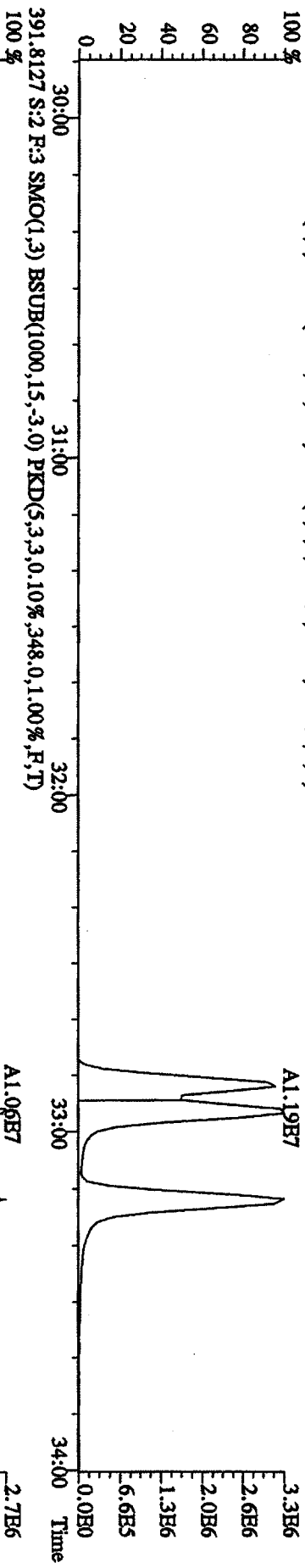


File:12AP104D5 #1-604 Acq:12-APR-2010 09:14:17 GC HI + Voltage SIR Autospec-UltimaB
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A
 355.8546 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,84.0,1.00%,F,T)
 100 %

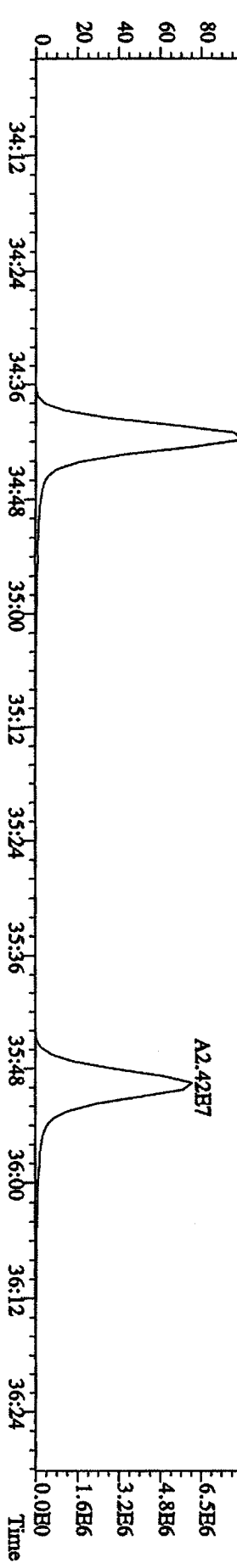
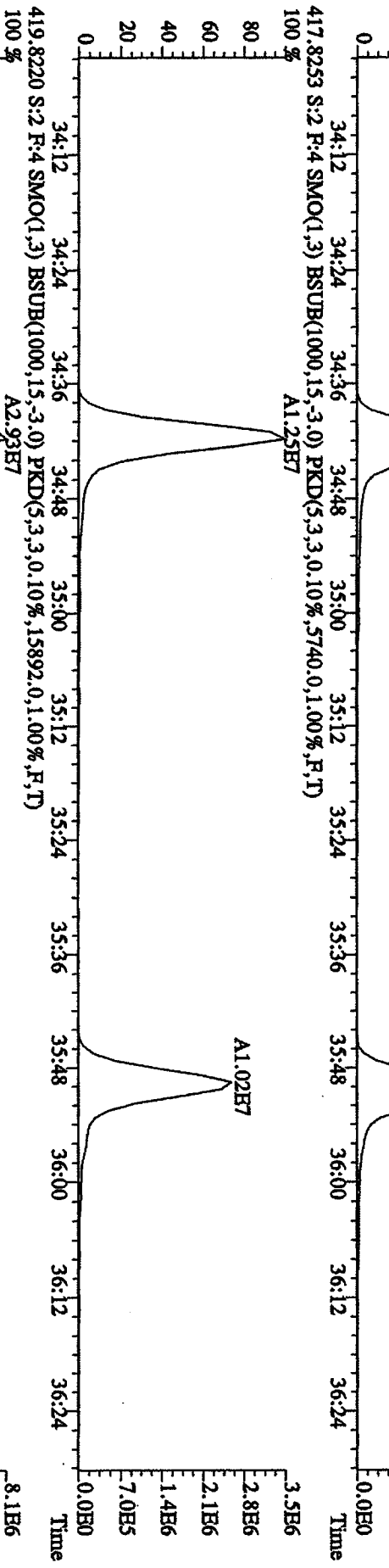
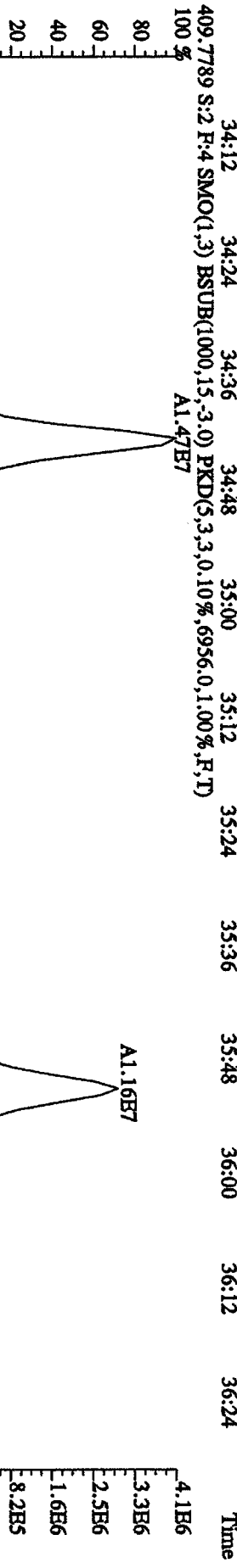
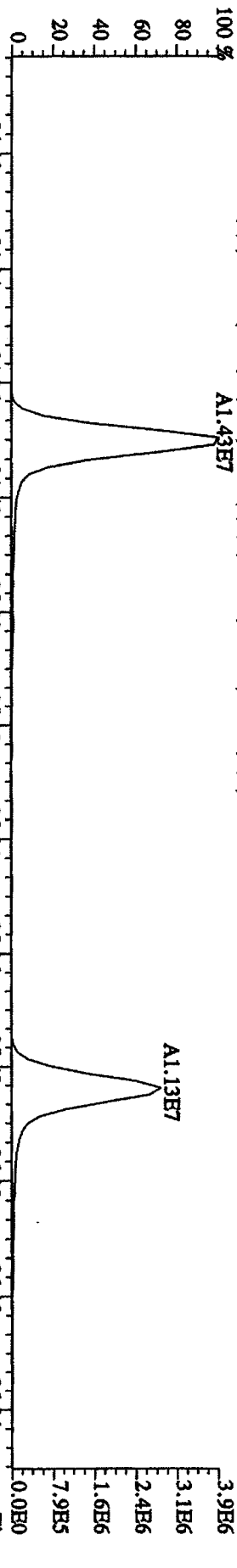




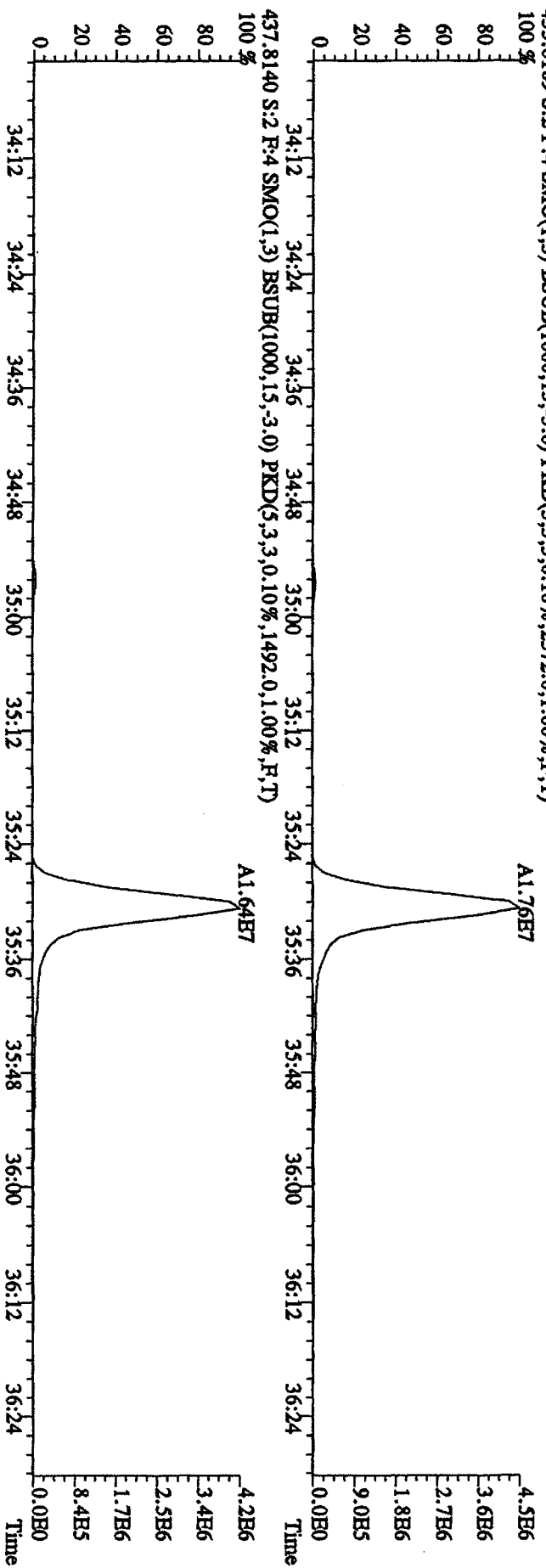
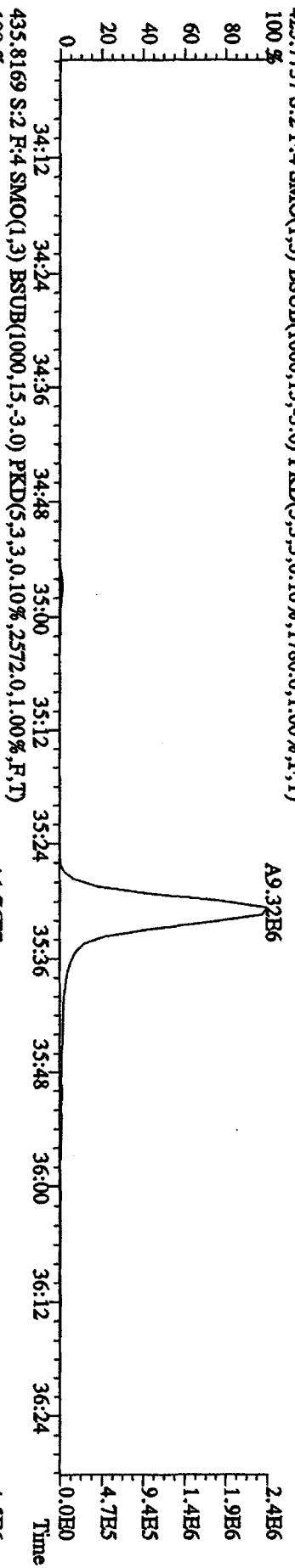
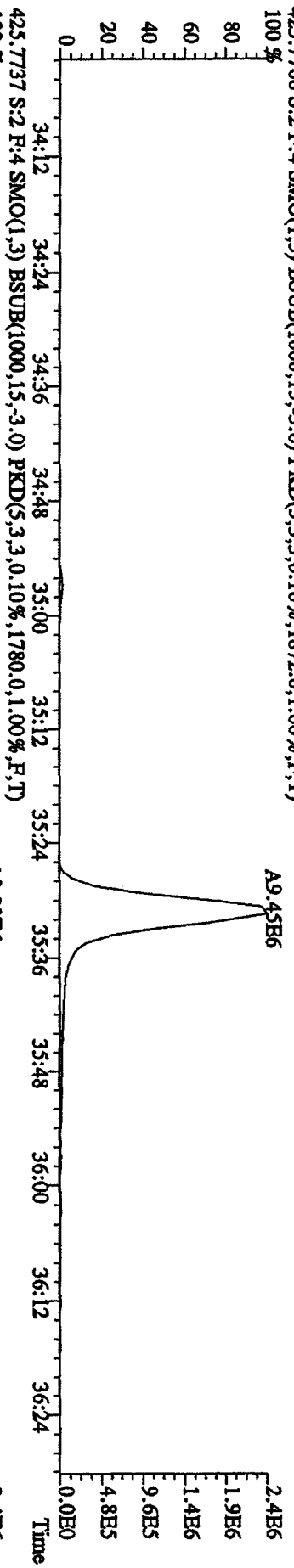
File:12AP104D5 #1-317 Acq:12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A
 389.8157 S:2 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,588,0,1,00%,F,T)
 100 %



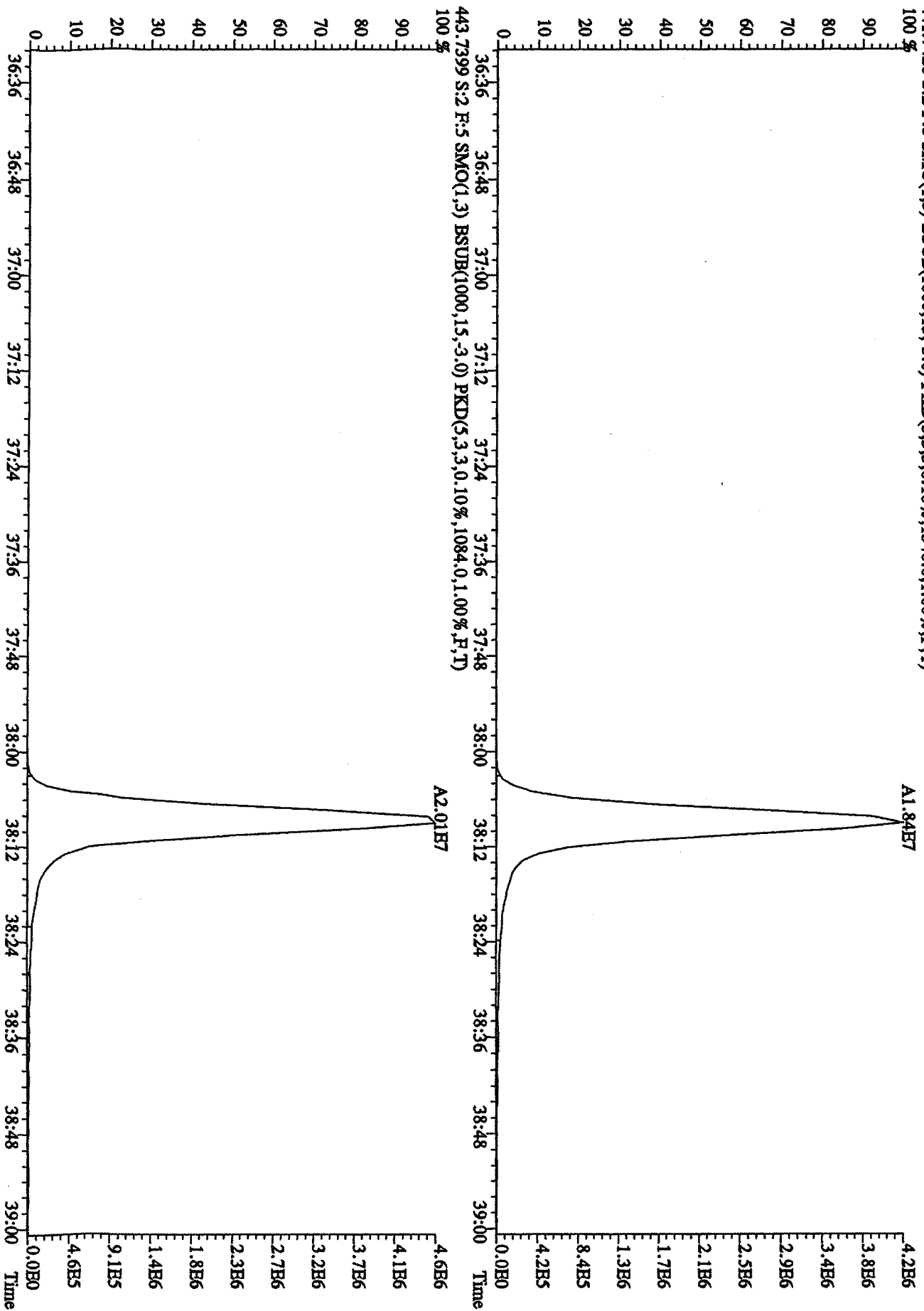
File: 12AP104D5 #1-198 Acq: 12-APR-2010 09:14:17 GC HI + Voltage SIR Autospec-UltimaB
 Sample# 2 Text: ST0412 : CS-3 10DXN111 Exp: DIOXINRES8290A
 407.7818 S:2 F:4 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,6488.0,1.00%,F,T)
 100%



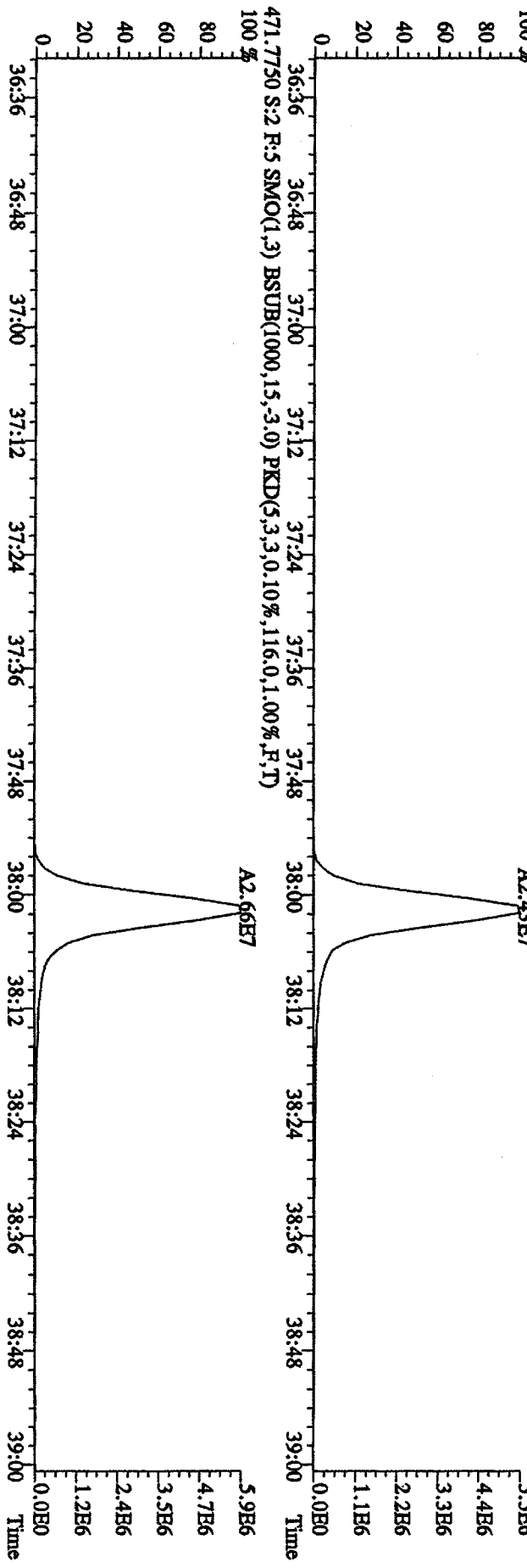
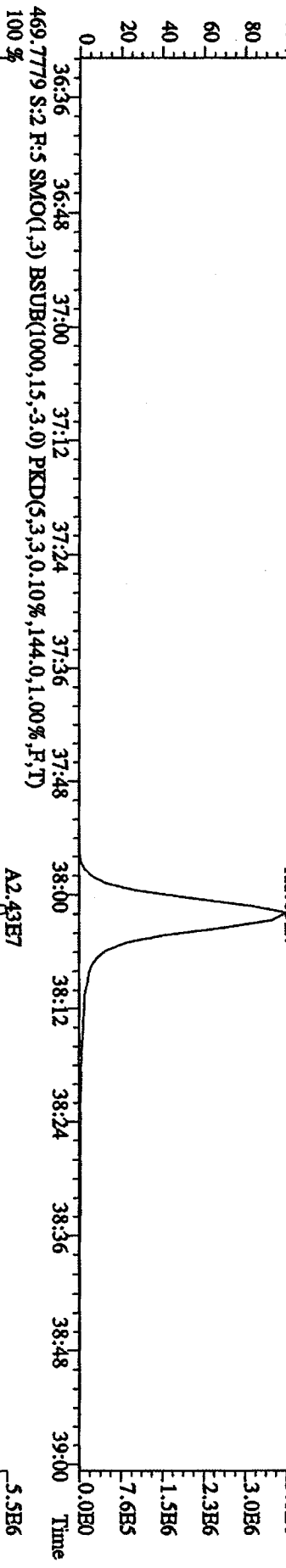
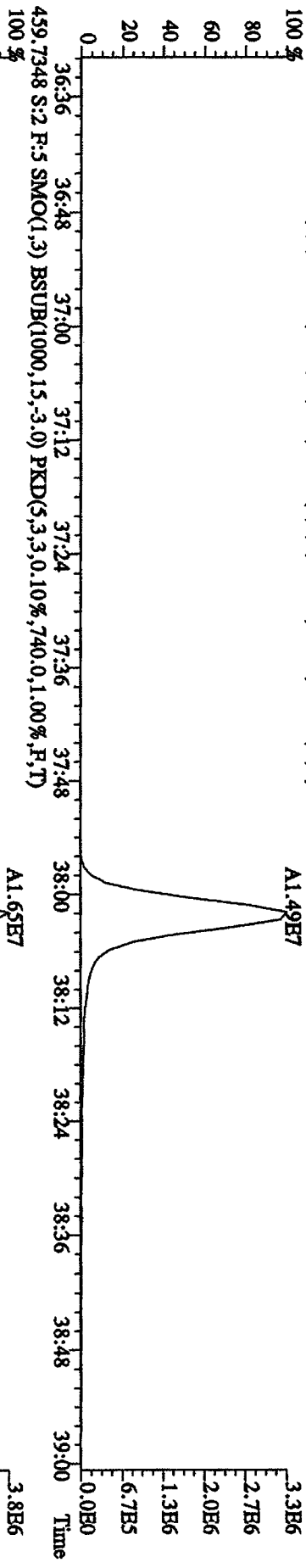
File: 12AP104D5 #1-198 Acq: 12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text: ST0412 :CS-3 10DXN111 Exp: DIOXINRES8290A
 423.7766 S:2 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1872.0,1.00%,F,T)



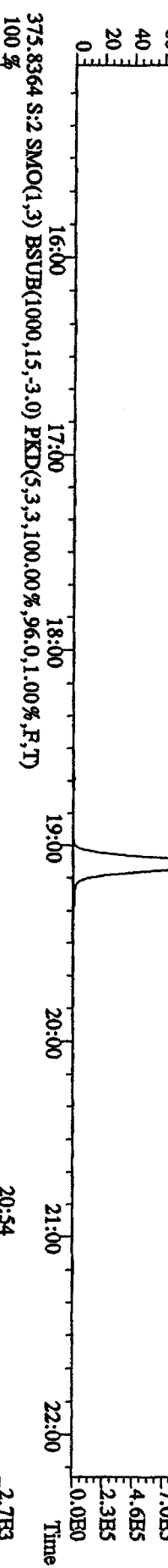
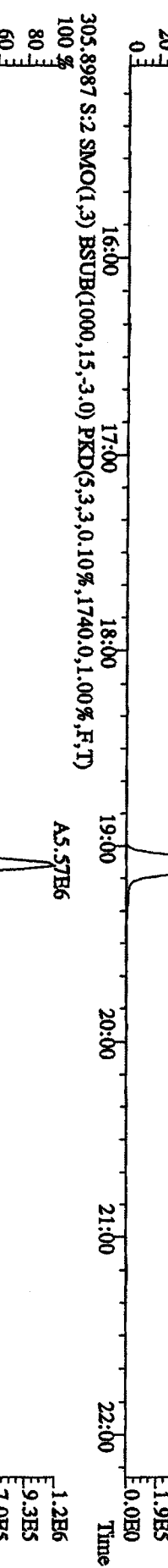
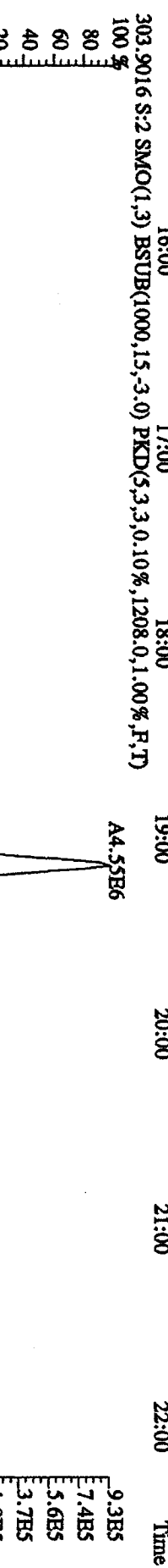
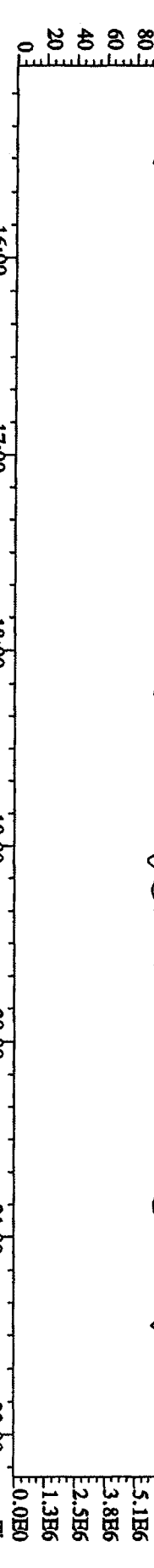
File: 12AP104D5 #1-191 Acq: 12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaB
Sample#2 Text:ST0412 :CS-3.10DXN111 Exp:DIOXINRES8290A
441.7428 S:2 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5.3,3,0.10%,1340.0,1.00%,F,T)
100%



File:12AP104D5 #1-191 Acq:12-APR-2010 09:14:17 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A
 457.7377 S:2 F:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,568.0,1.00%,F,T)

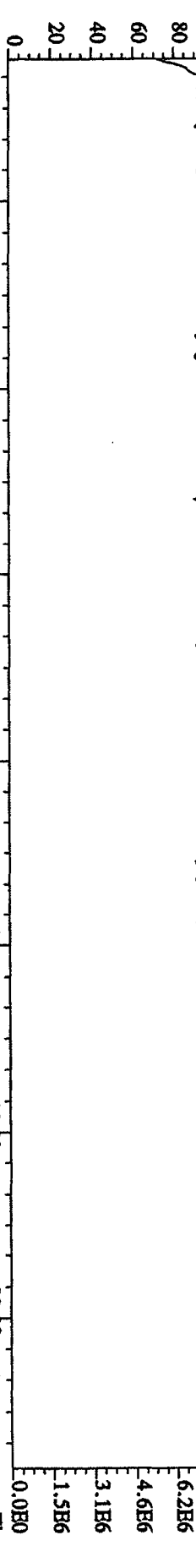


File: 12AD104D5 #1-435 Acq: 12-APR-2010 09:14:17 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#2 Text: ST0412 :CS-3 10DXN111 Exp: DIOXINRES8290A
 354.9792 S:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)
 100% 15:14 15:41 16:29 17:15 17:50 18:21 18:56 19:23 19:48 20:41 21:08 21:43

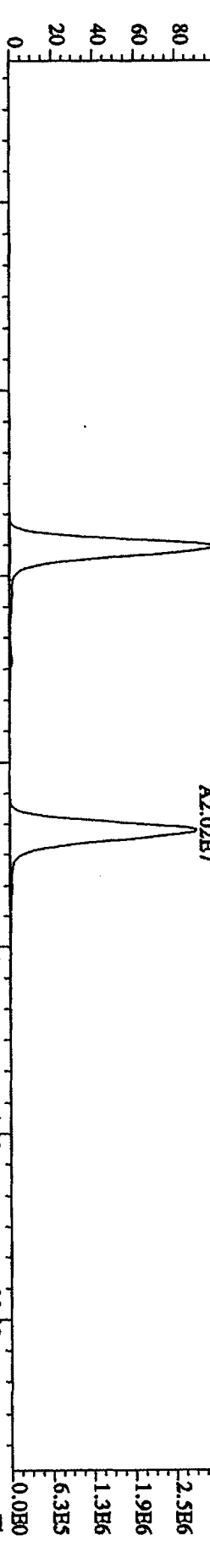


File:12AP104D5 #1-604 Acq:12-APR-2010 09:14:17 GC HI+ Voltage SIR Autospec-Ultimate
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A

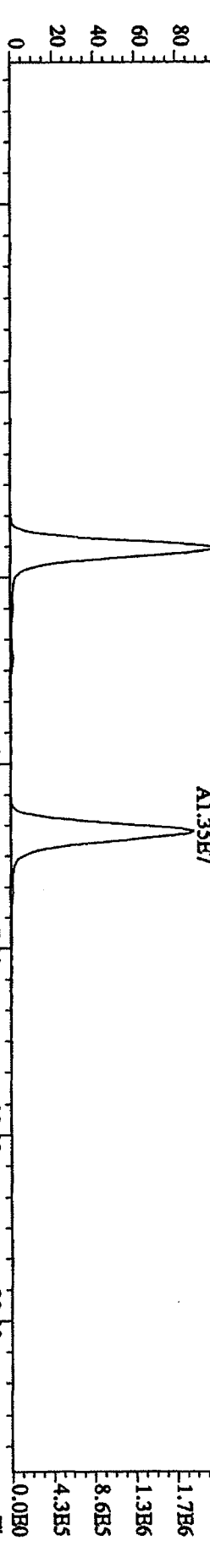
354.9792 S:2 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 22:33 23:01 23:34 24:01 24:43 25:14 25:41 26:17 26:58 27:24 27:55 28:31 28:56 29:21



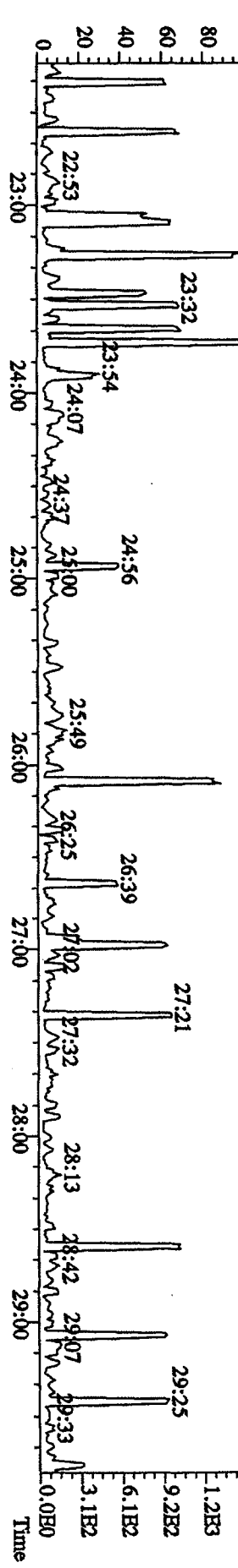
339.8597 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1572.0,1.00%,F,T) 23:00 24:00 25:00 26:00 27:00 28:00 29:00

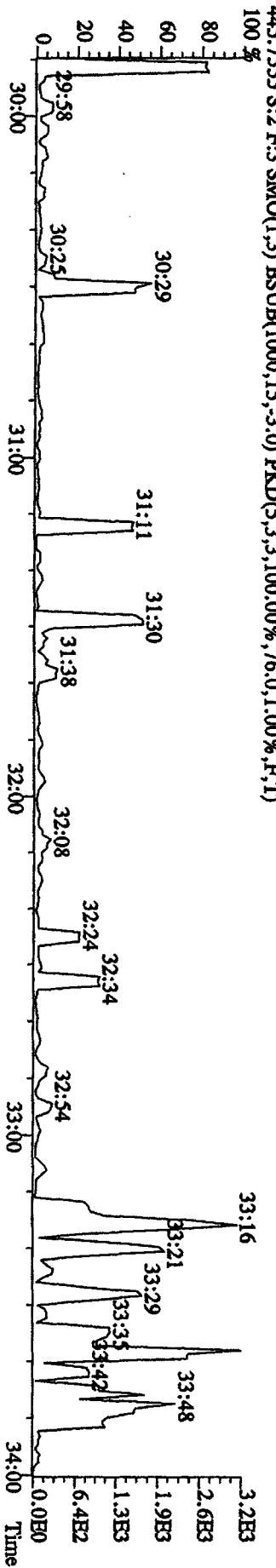
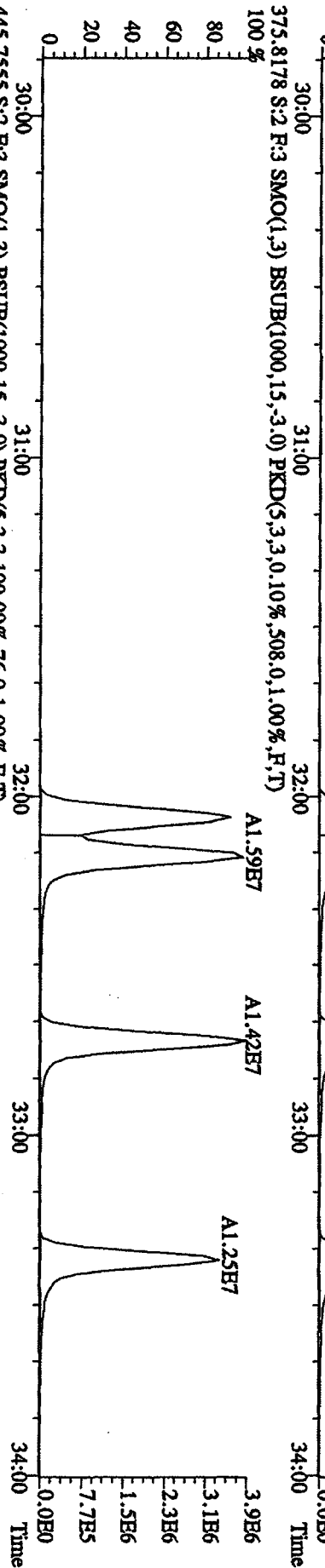
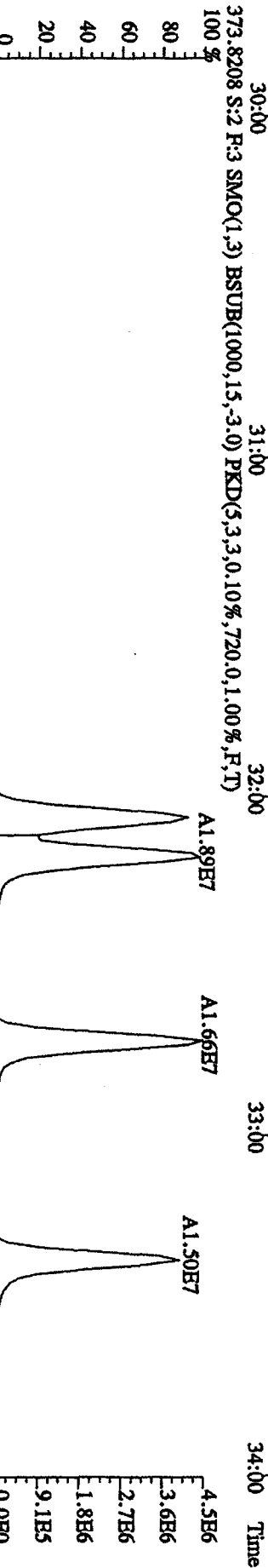
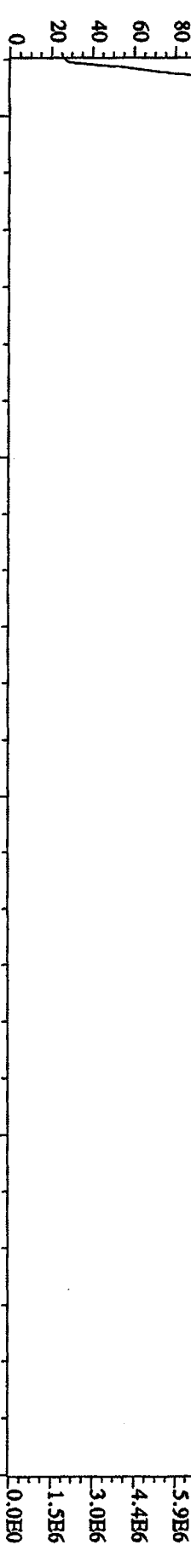


341.8567 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1216.0,1.00%,F,T) 23:00 24:00 25:00 26:00 27:00 28:00 29:00



409.7974 S:2 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,88.0,1.00%,F,T) 23:00 24:00 25:00 26:00 27:00 28:00 29:00

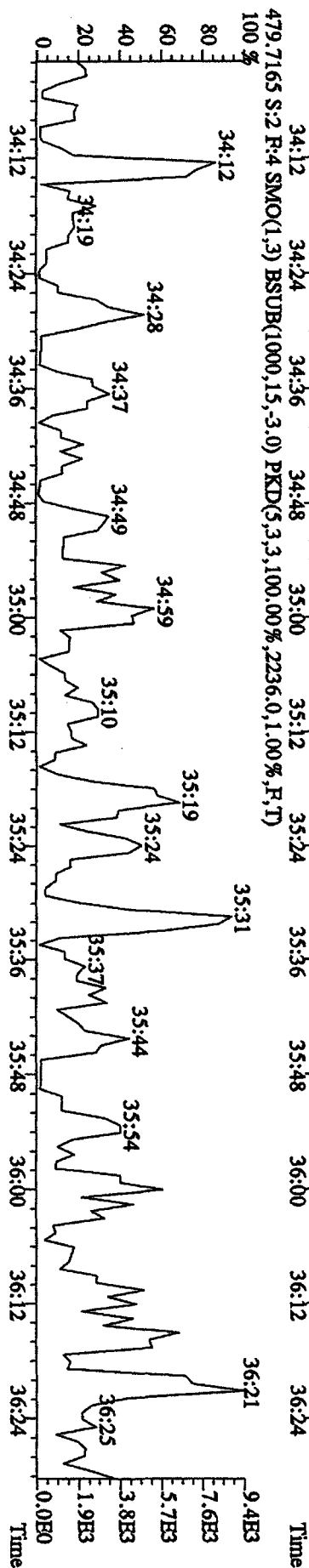
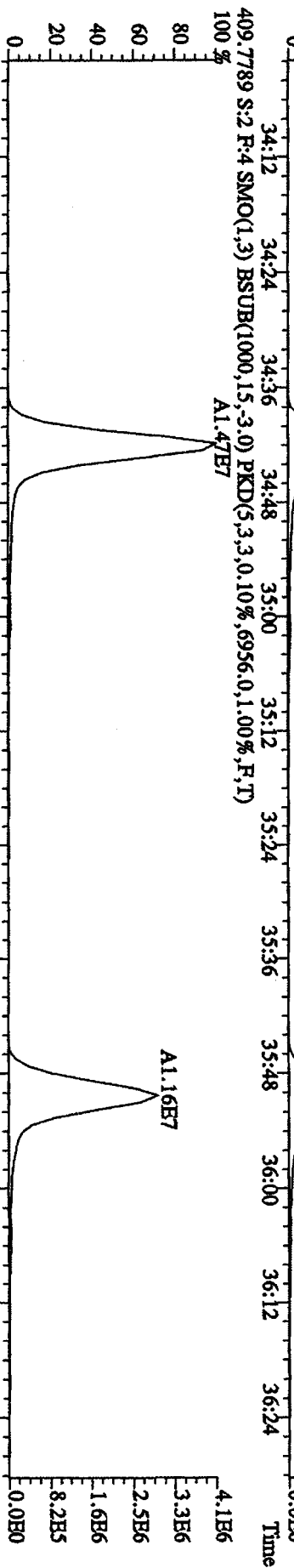
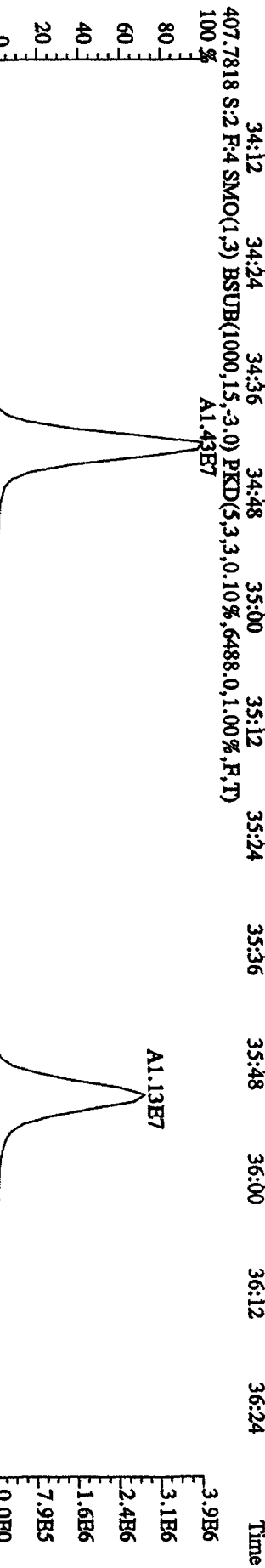
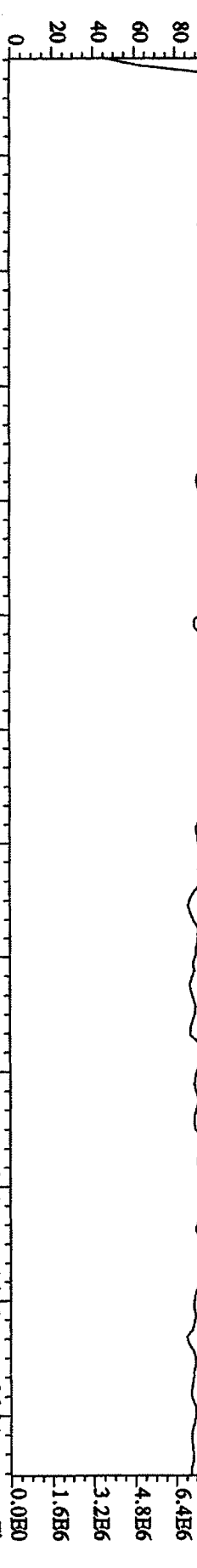




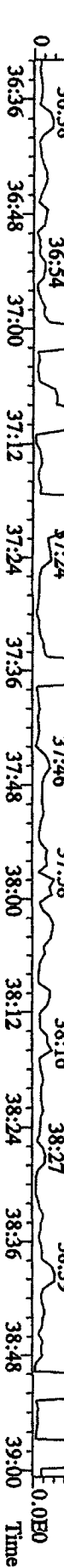
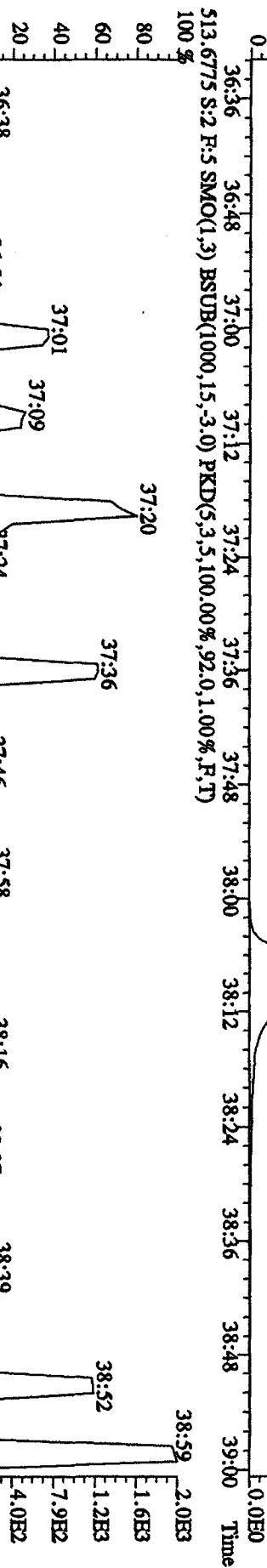
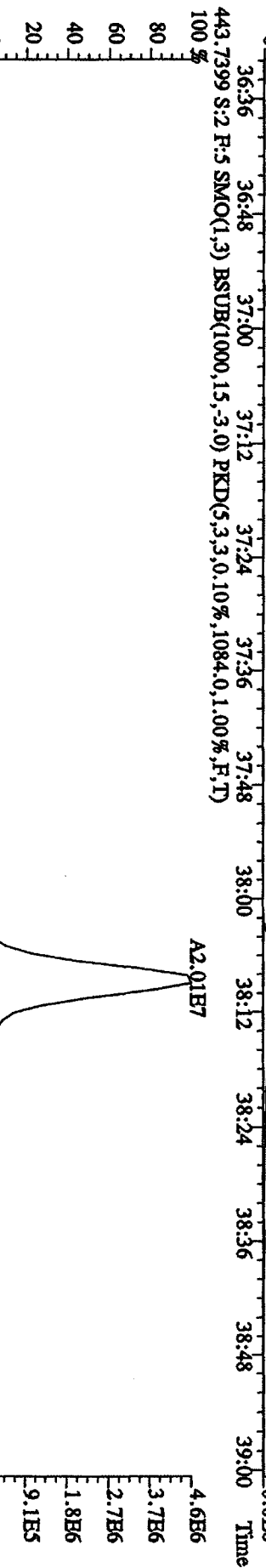
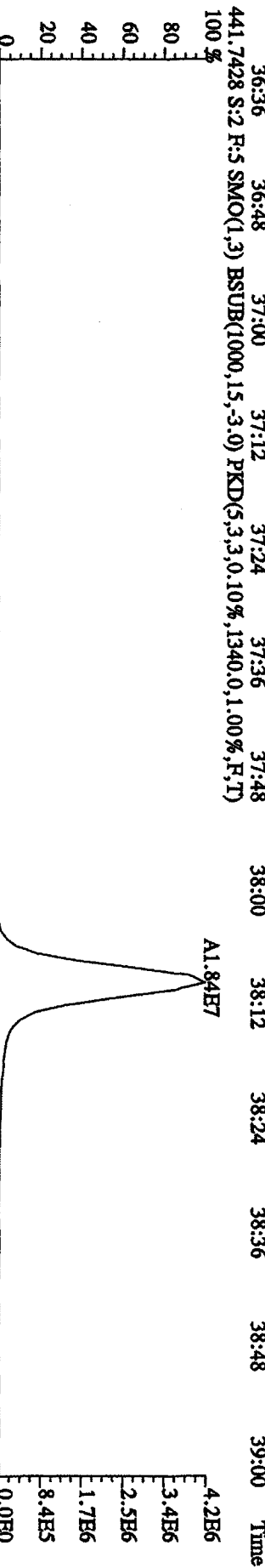
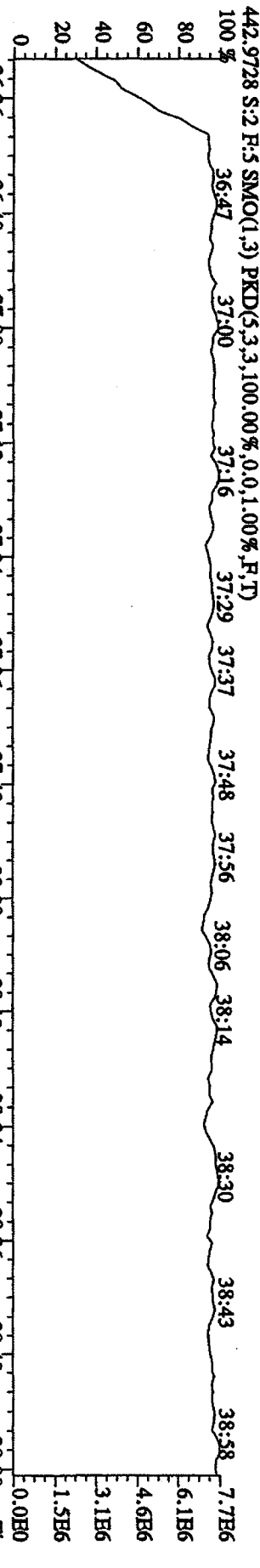
File:12AP104D5 #1-198 Acq:12-APR-2010 09:14:17 GC HI+ Voltage SIR Autospec-UltimaB

Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A

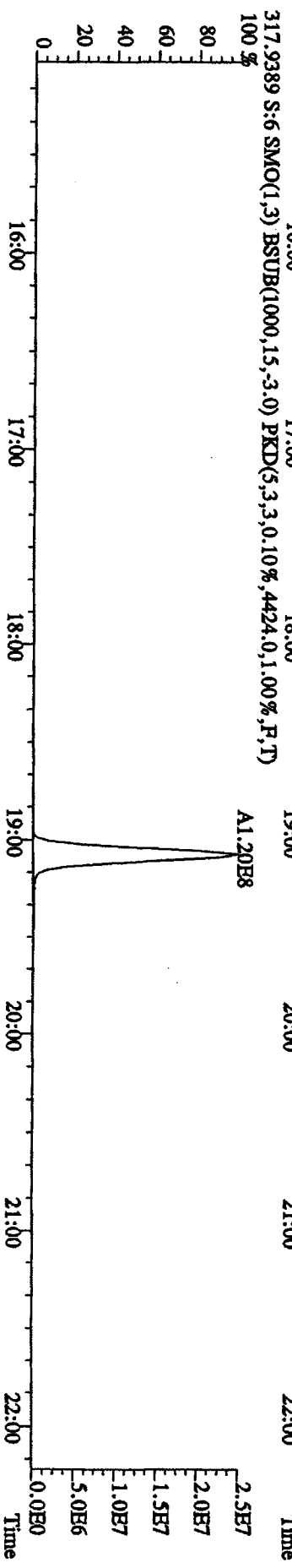
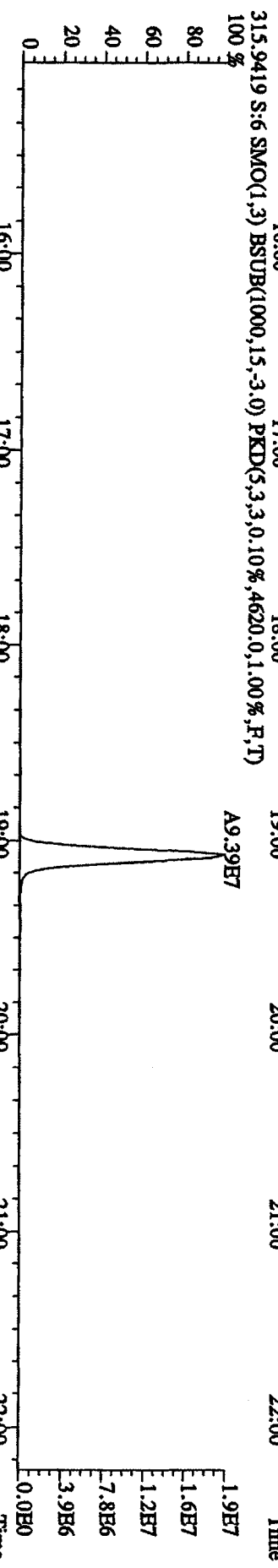
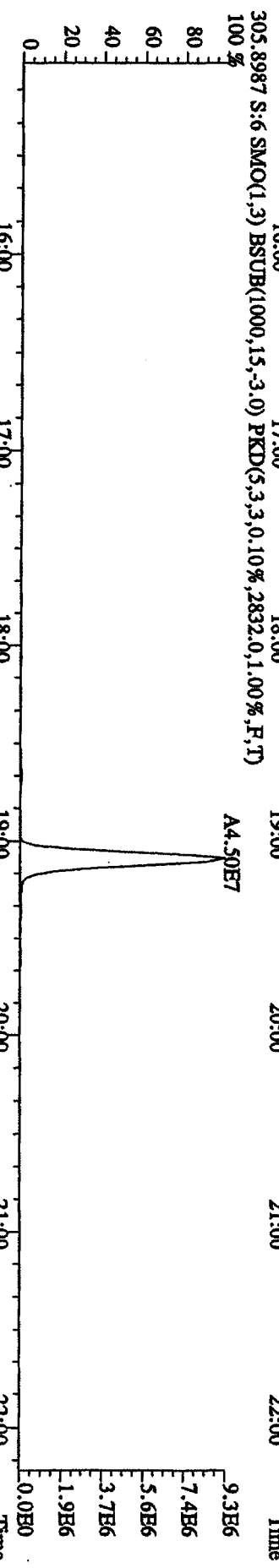
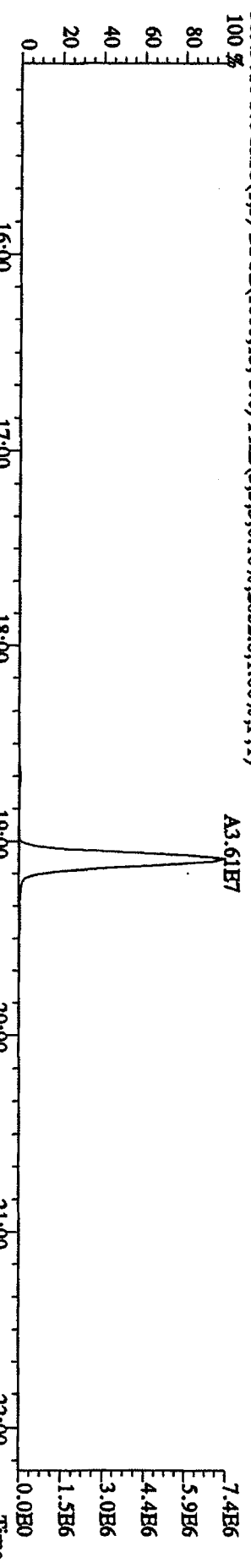
430.9728 S:2 F:4 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 34:07 34:16 34:31 34:43 34:52 35:04 35:13 35:20 35:28 35:47 36:00 36:23



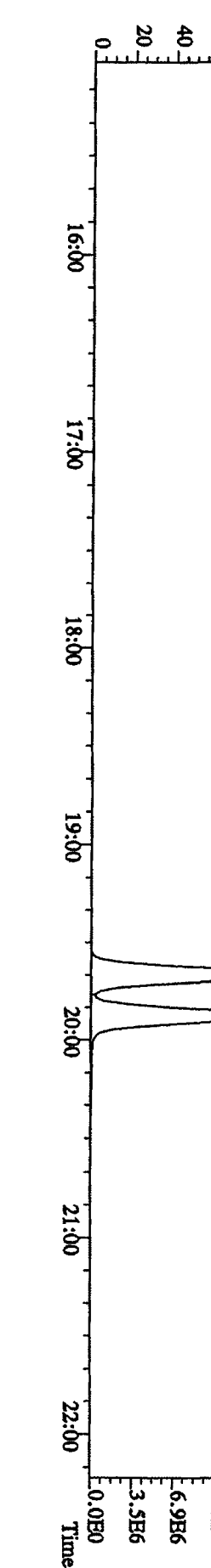
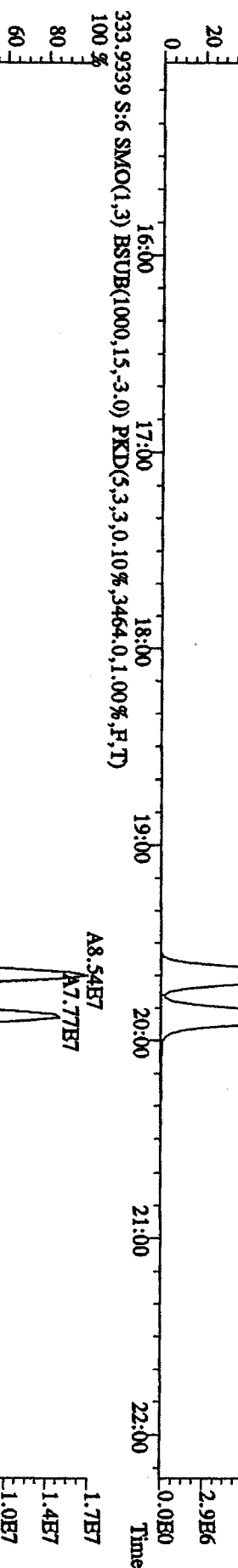
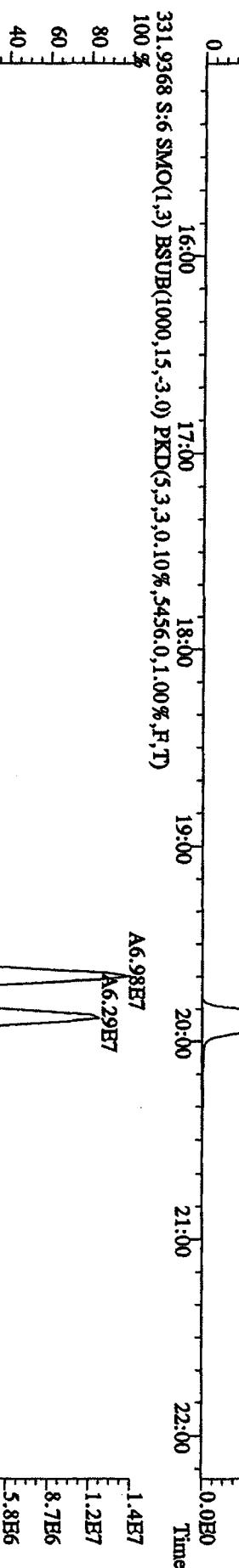
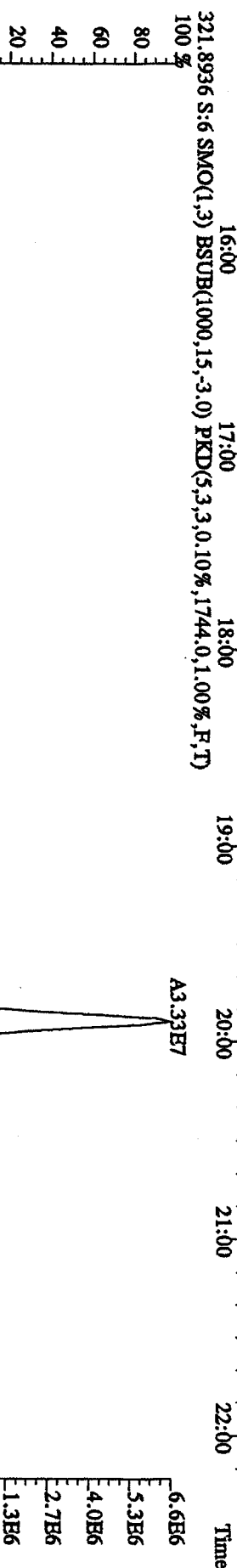
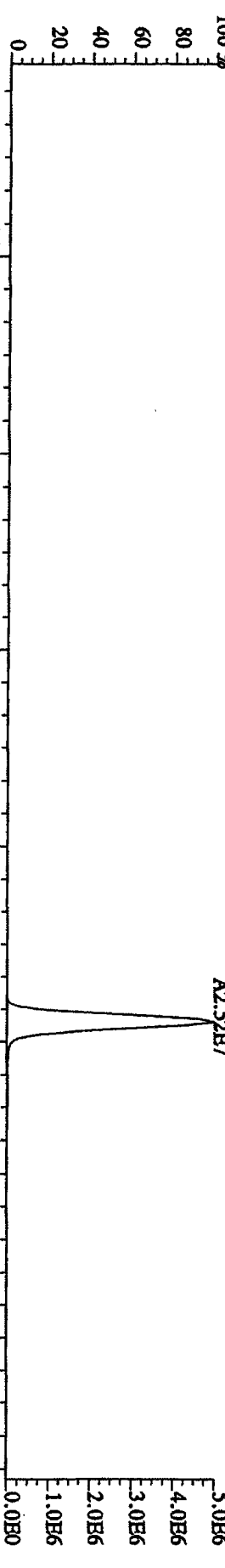
File:12AP104D5 #1-191 Acq:12-APR-2010 09:14:17 GC HF+ Voltage SIR Autospec-UltimaB
 Sample#2 Text:ST0412 :CS-3 10DXN111 Exp:DIOXINRES8290A



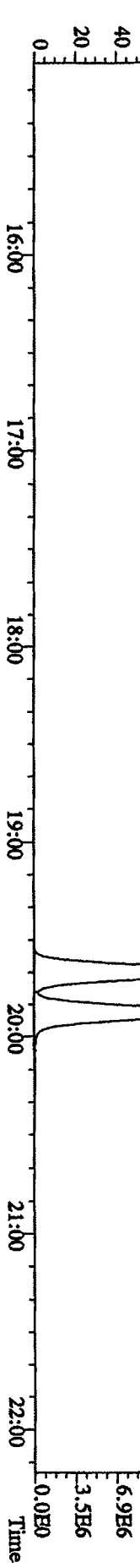
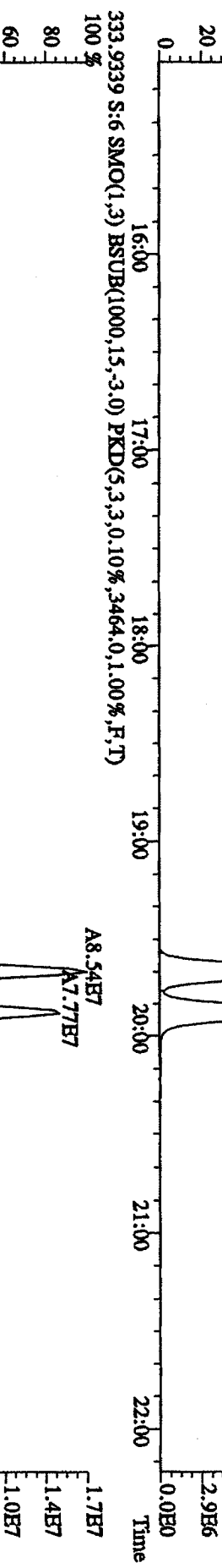
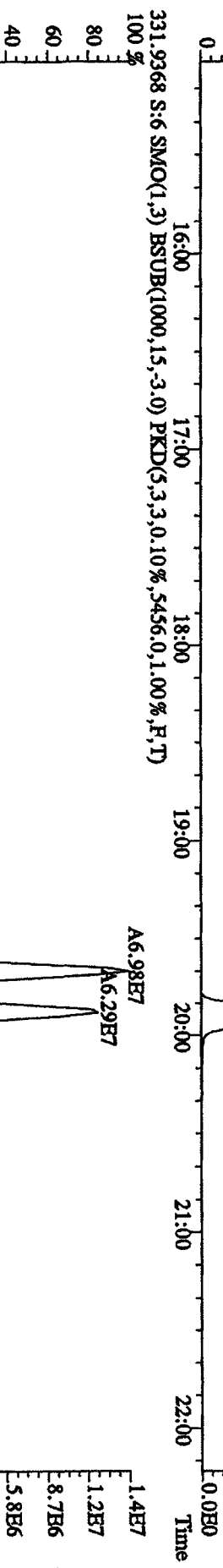
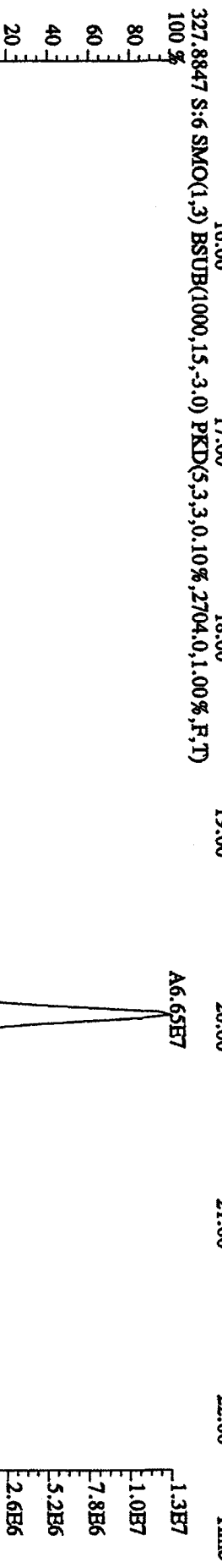
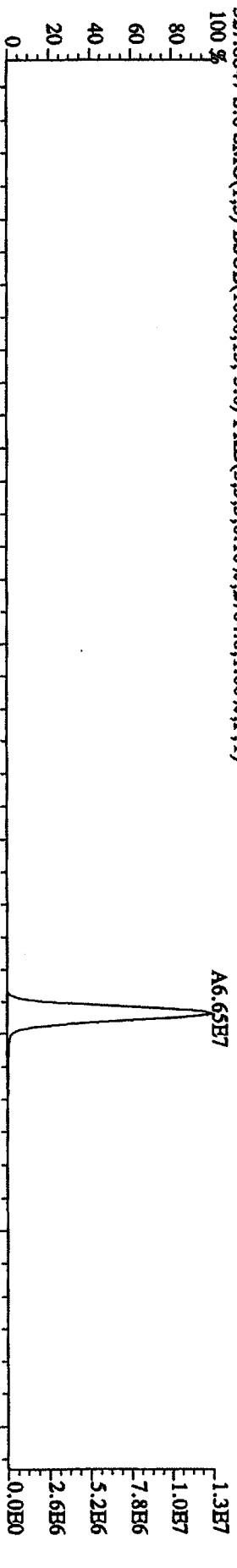
File:12AP104D5 #1-435 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A
 303.9016 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2052,0,1,00%,F,T) 100%



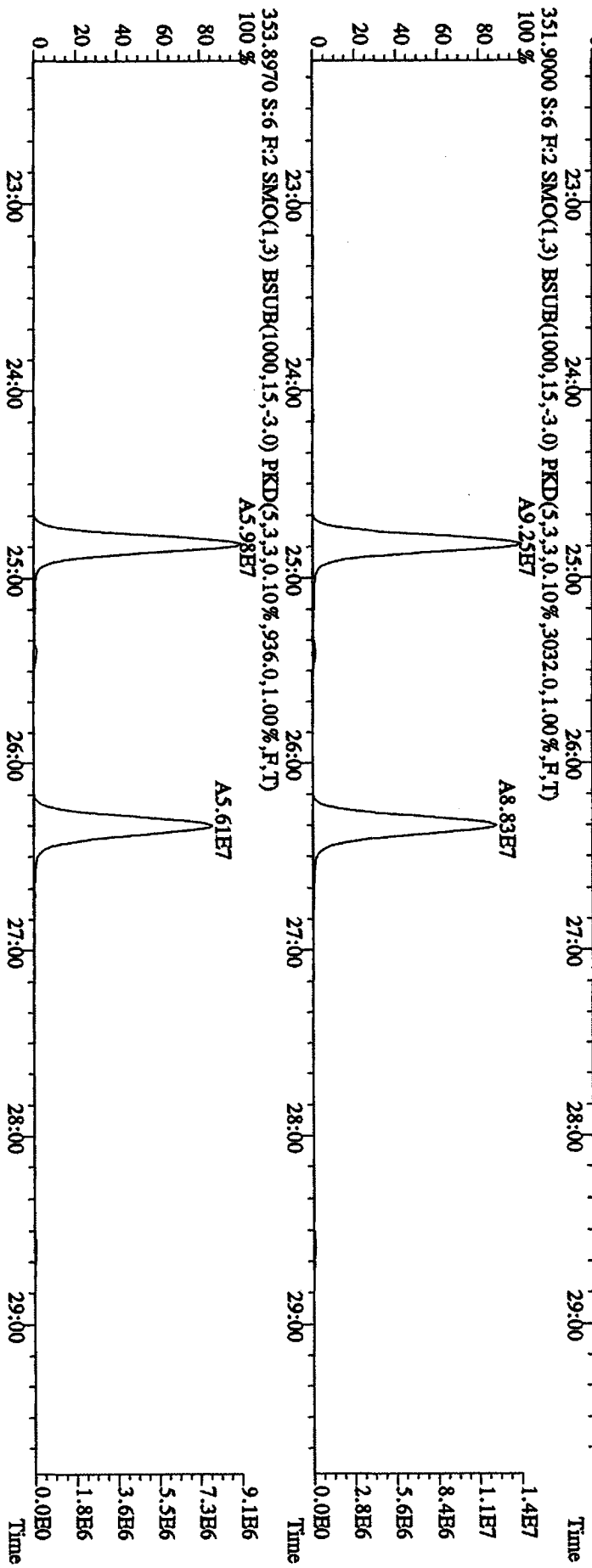
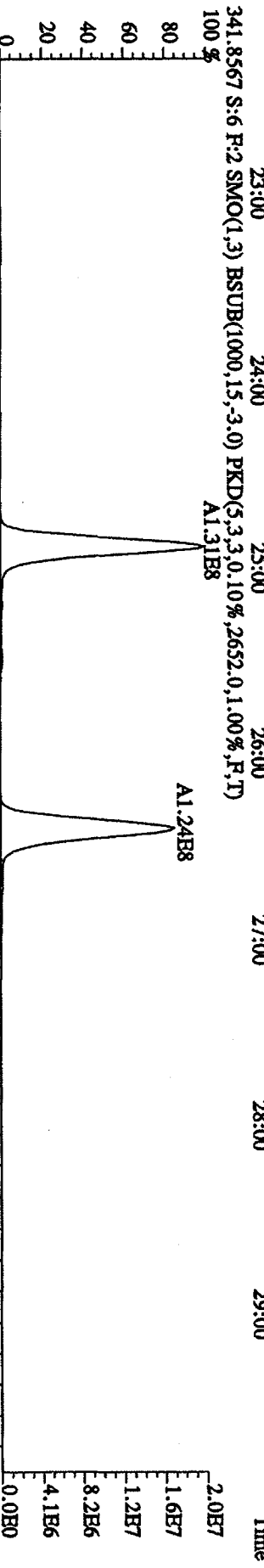
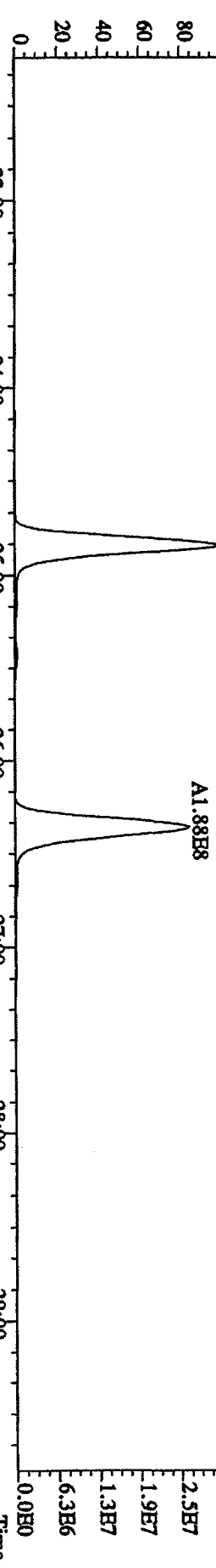
File:12AP104D5 #1-435 Acq:12-APR-2010 12:16:51 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A
 319.8965 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1540,0,1,00%,F,T)



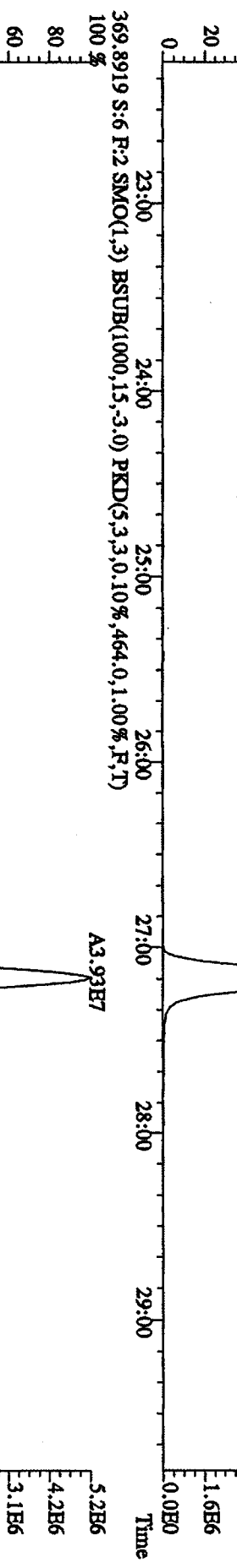
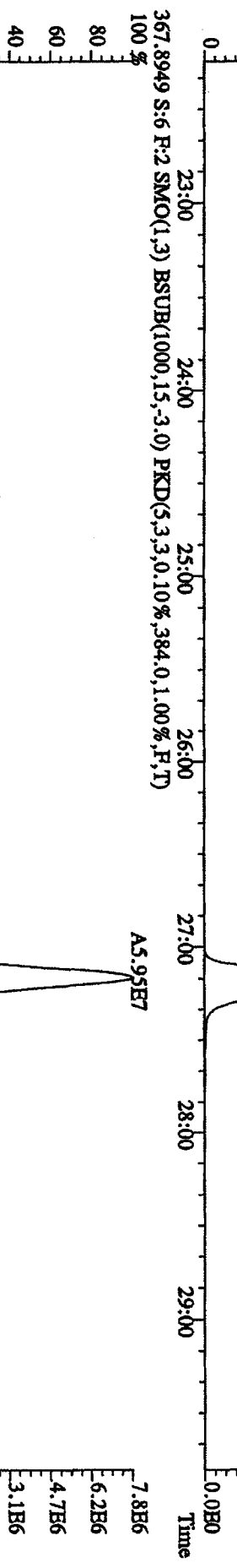
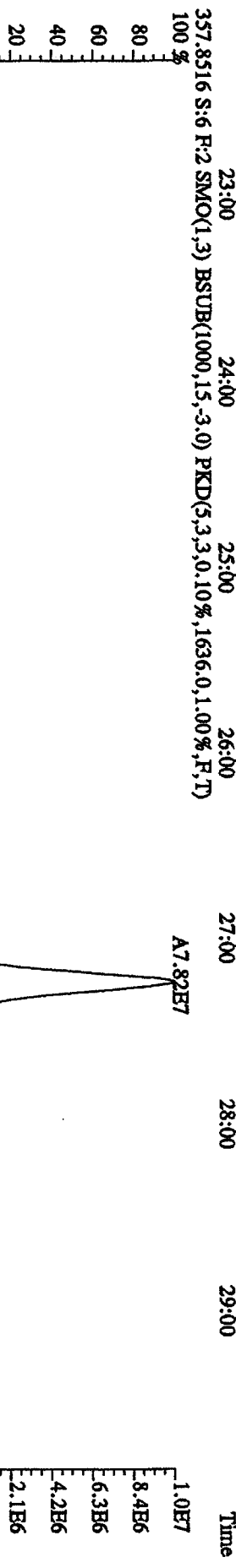
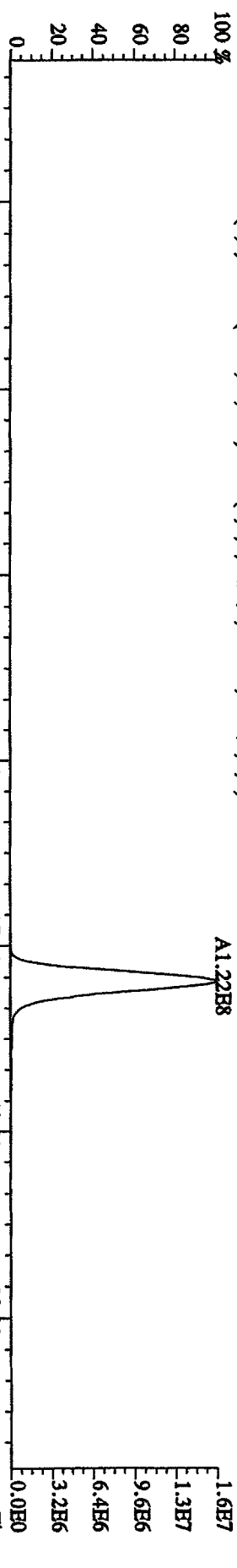
File:12AP104D5 #1-435 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A
 327.8847 S:6 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2704,0,1,100%,F,T)



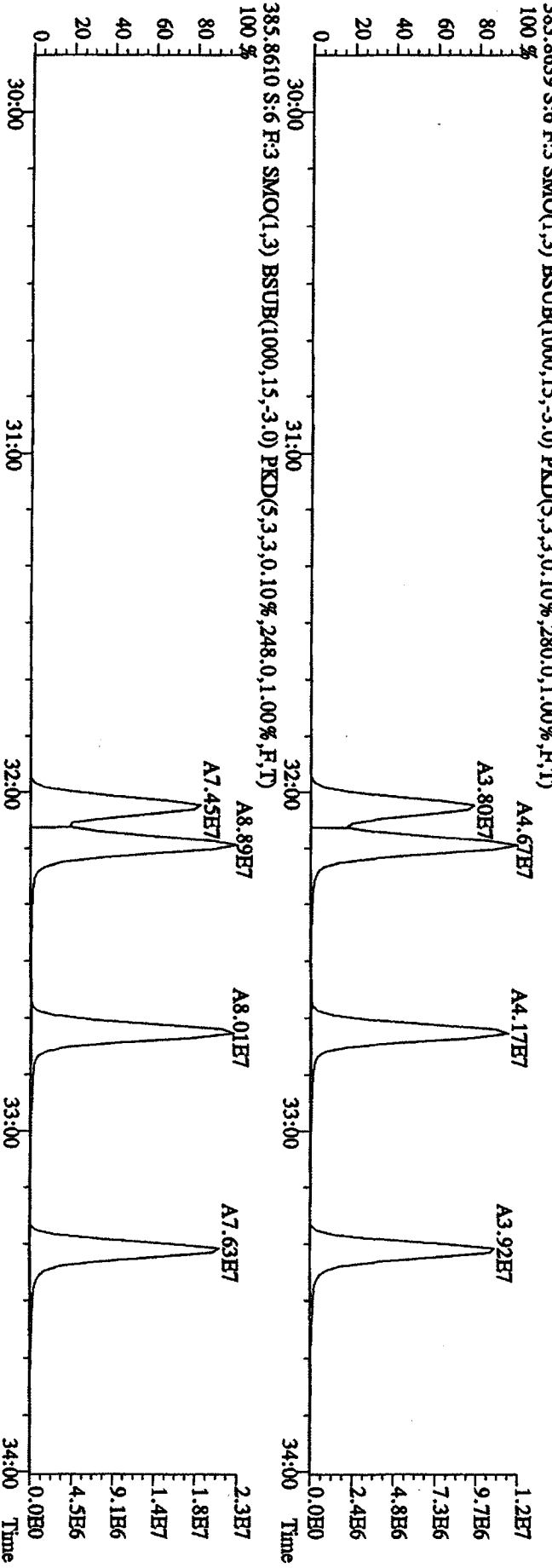
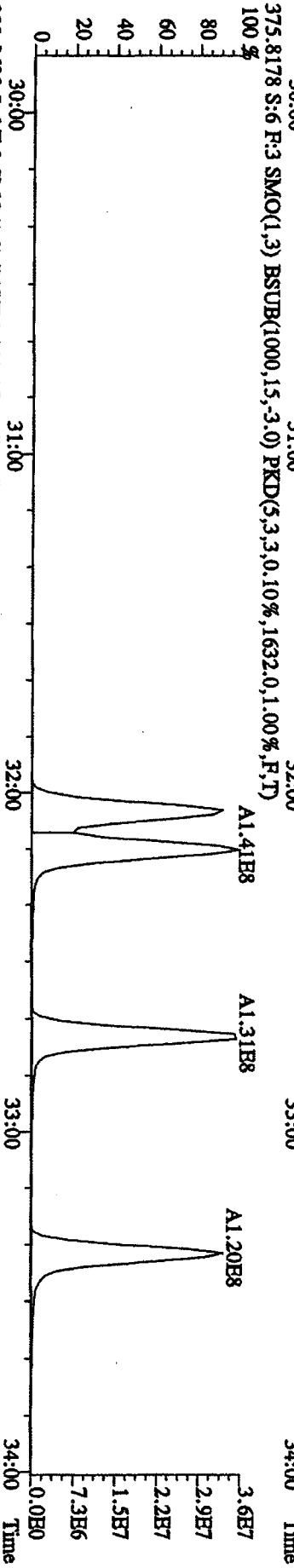
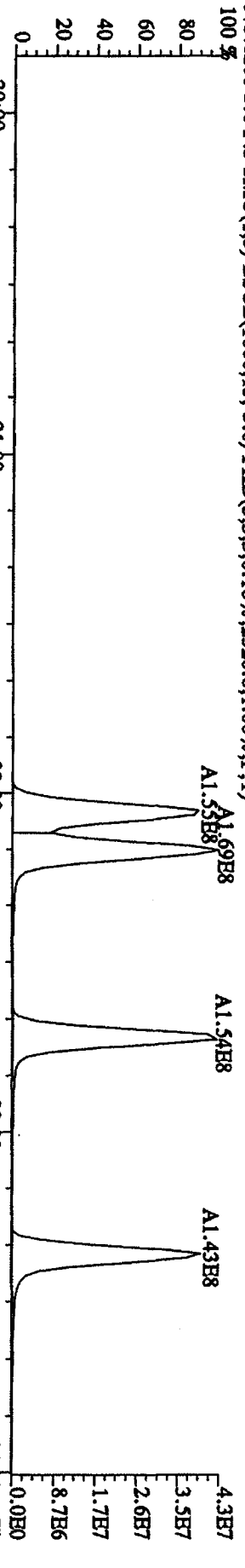
File:12AP104D5 #1-604 Acq:12-APR-2010 12:16:51 GC HF+ Voltage SIR Autospec-Ultimate
 Sample#6 Text:ST0412D :CS 4 09DDXN426 Exp:DIOXINRBS8290A
 339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2416.0,1.00%,F,T)
 100 % A2.00E8



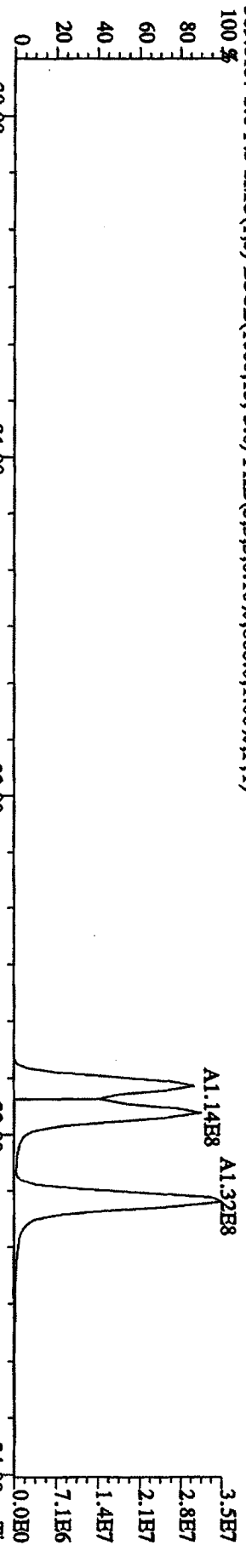
File:12AP104D5 #1-604 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:STU412D :CS-4 09DXN426 Exp:DIOXINRHS8290A
 355.8546 S:6 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2816.0,1.00%,F,T) 100%



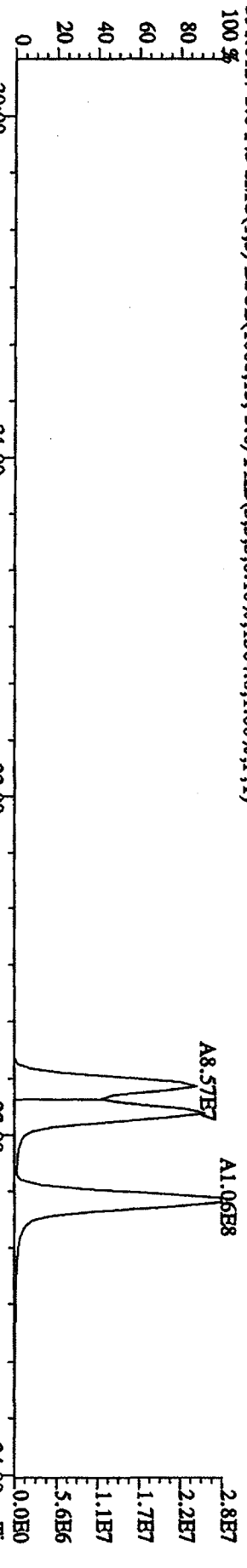
File: 12ADP104D5 #1-317 Acq: 12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#6 Text: ST0412D :CS-4 09DXN426 Exp: DIOXINRES8290A
 373.8208 S:6 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2520,0.1,00%,F,T)



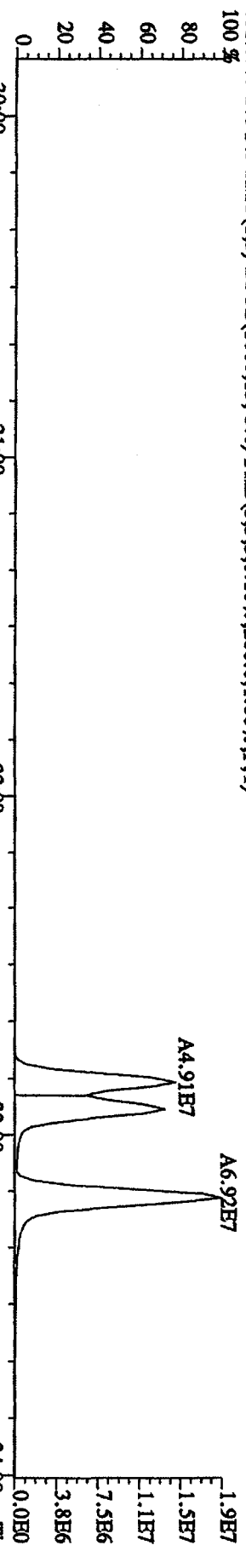
File:12AP104D5 #1-317 Acq:12-APR-2010 12:16:51 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A
 389.8157 S:6 F:3 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0,10%,868.0,1.00%,F,T)



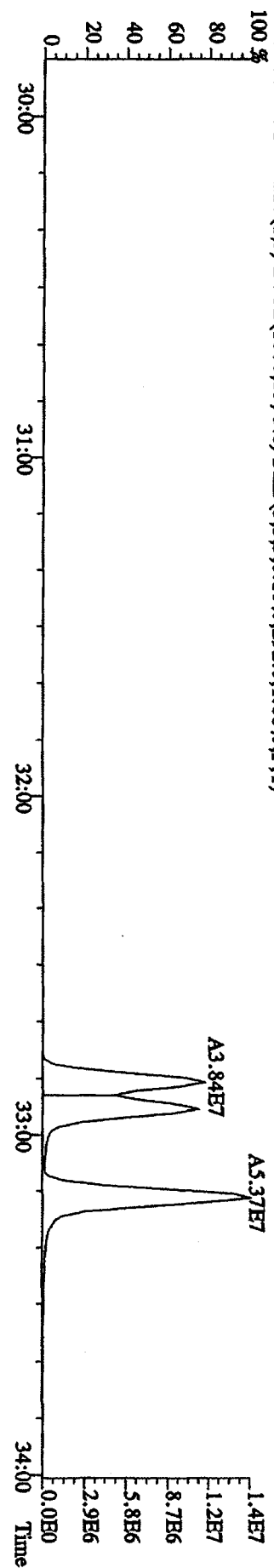
391.8127 S:6 F:3 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0,10%,1364.0,1.00%,F,T)



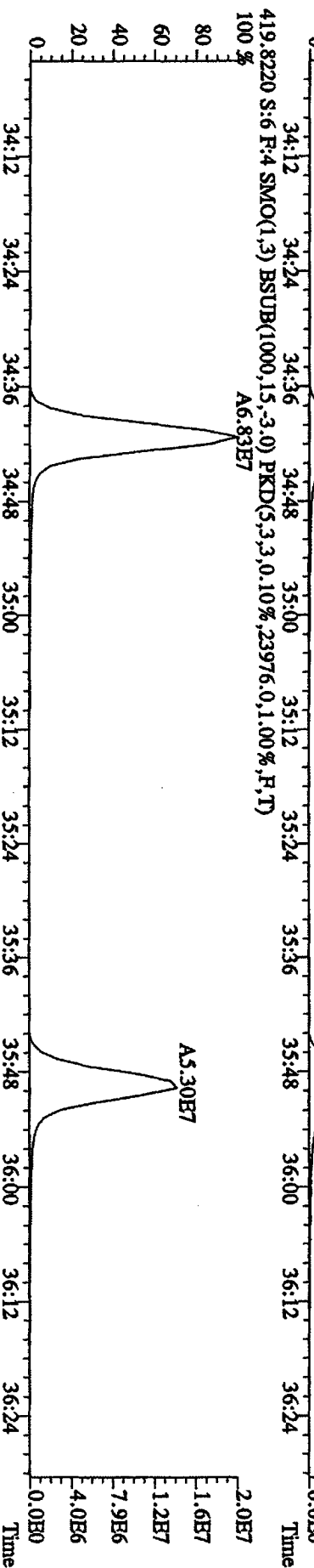
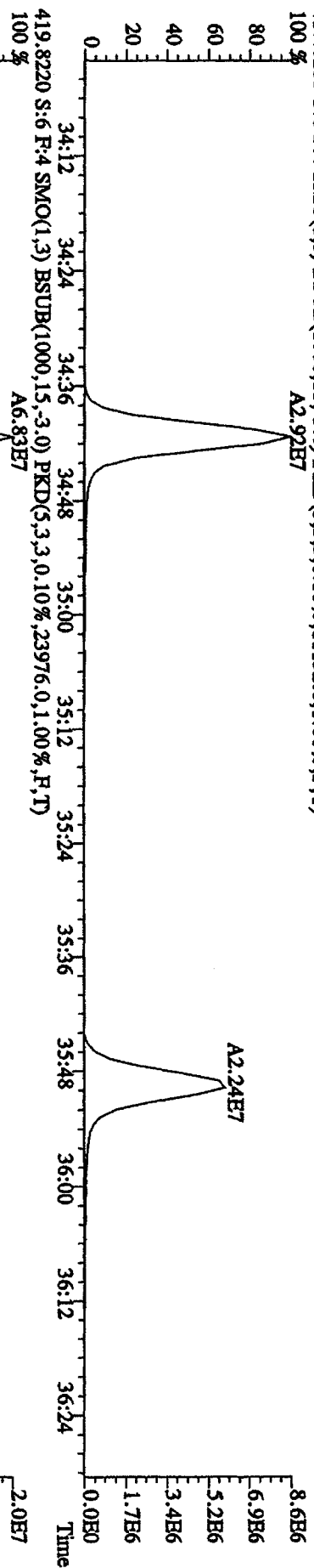
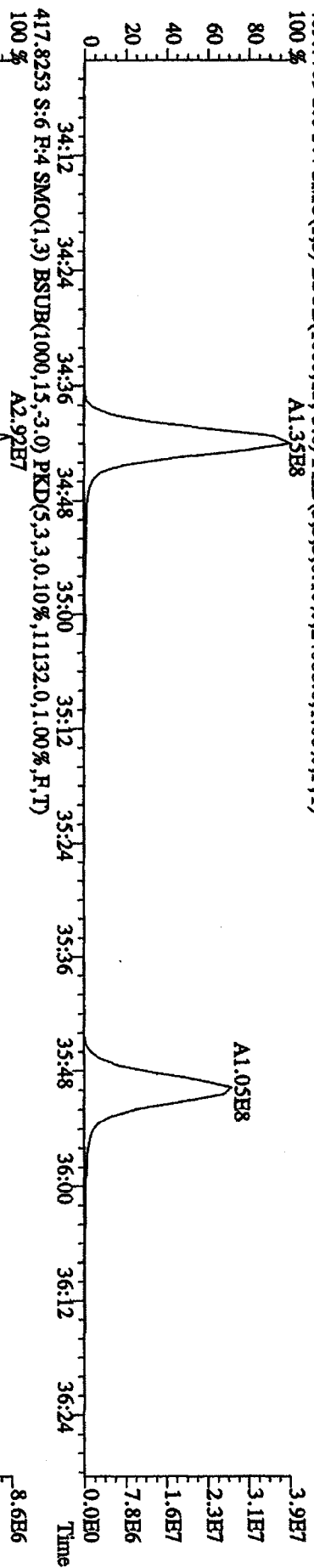
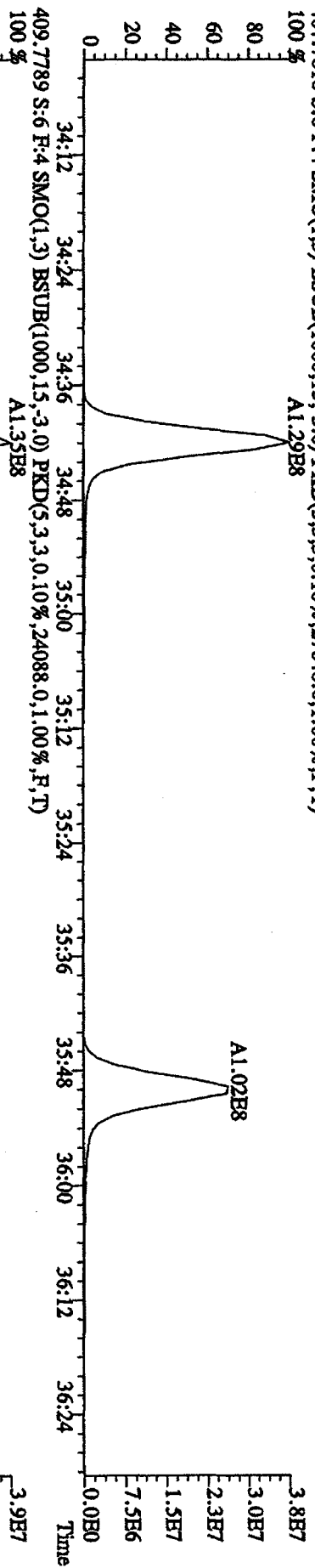
401.8559 S:6 F:3 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0,10%,280.0,1.00%,F,T)



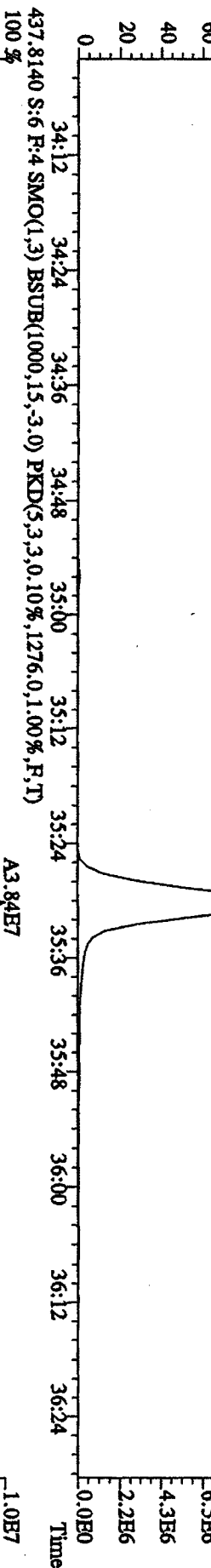
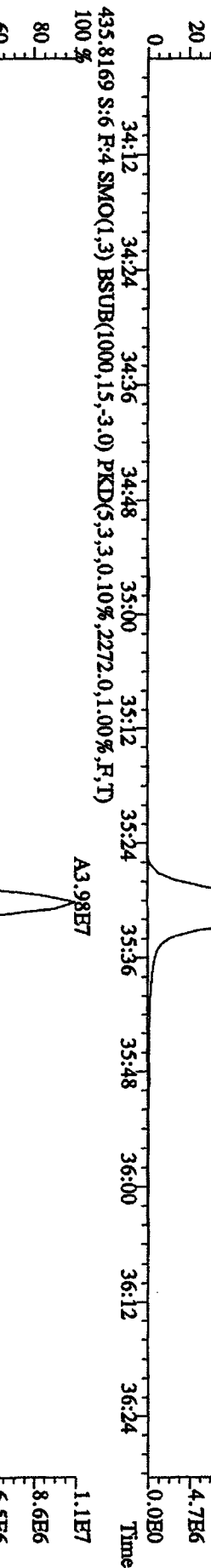
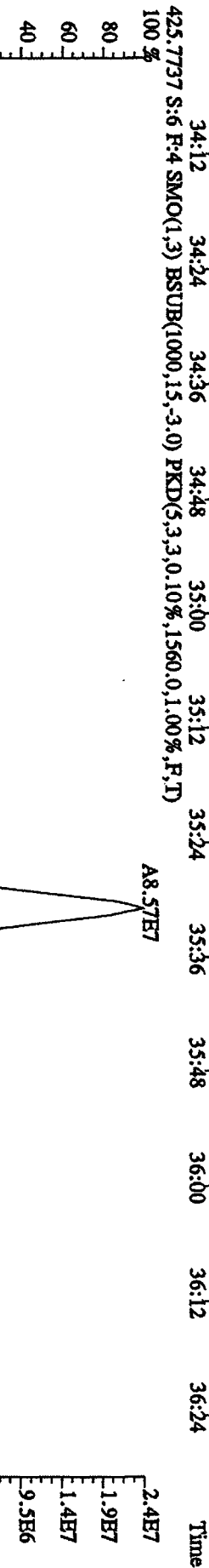
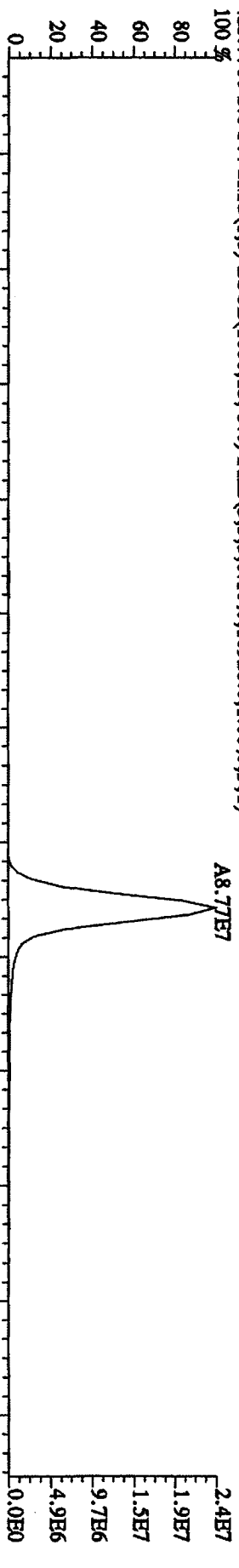
403.8529 S:6 F:3 SMO(1,3) BSUB(1000,15,3.0) PKD(5,3,3,0,10%,292.0,1.00%,F,T)



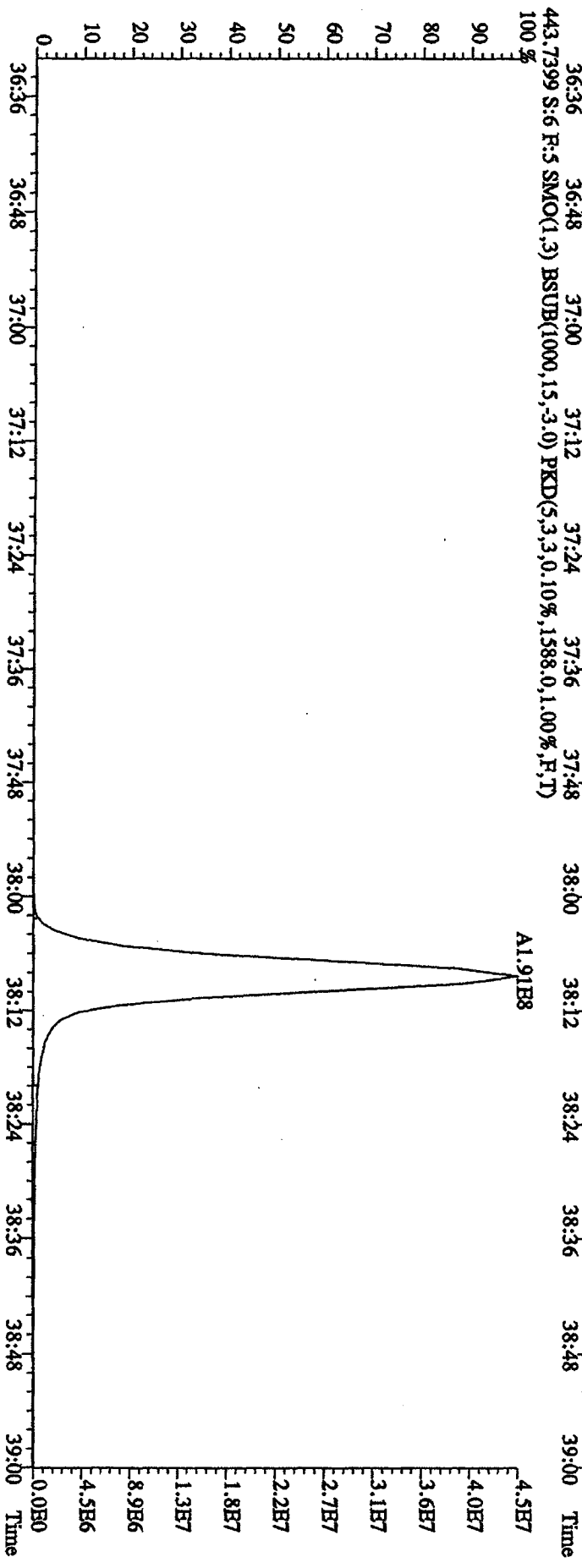
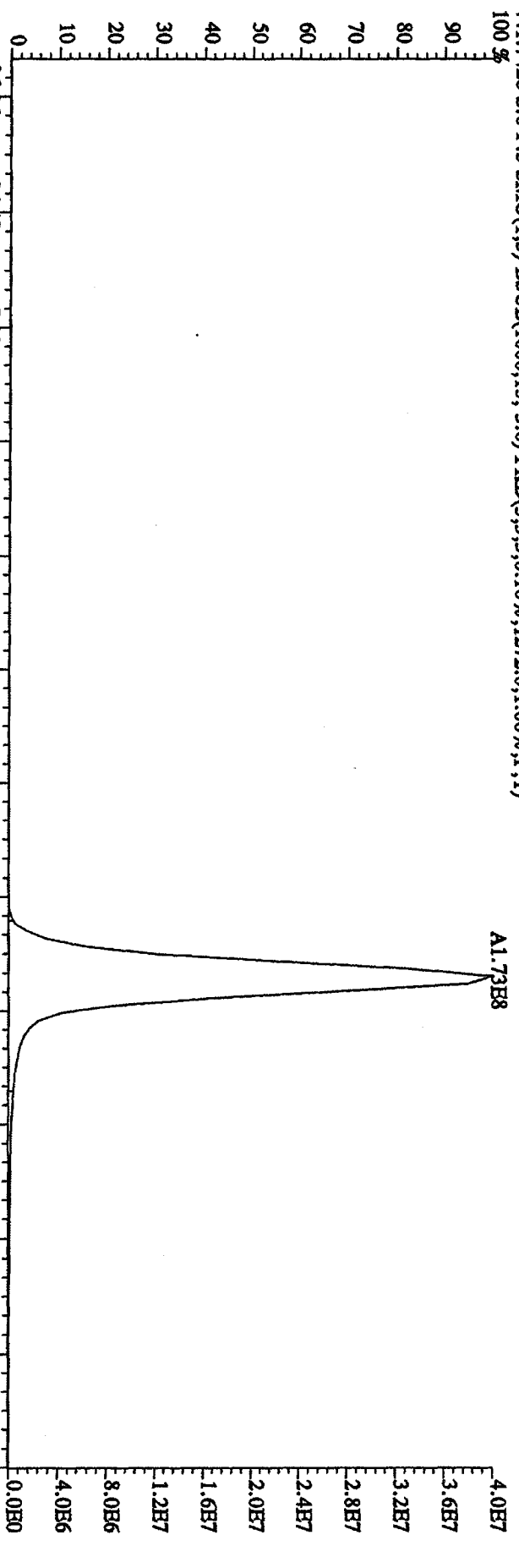
File:12AP104D5 #1-198 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A
 407.7818 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,27648.0,1.00%,F,T)
 100%



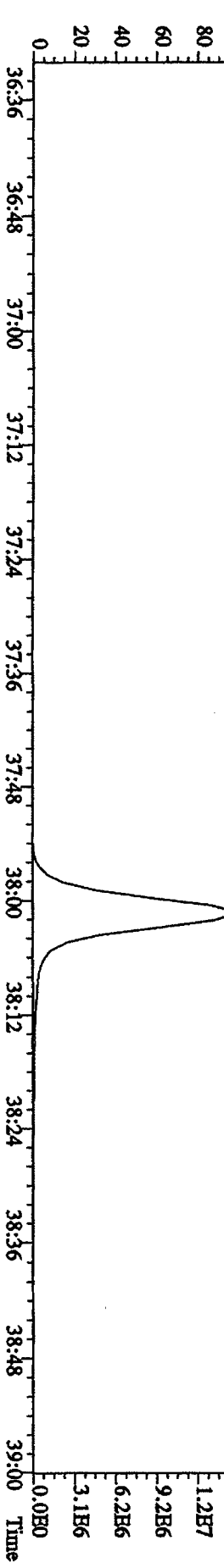
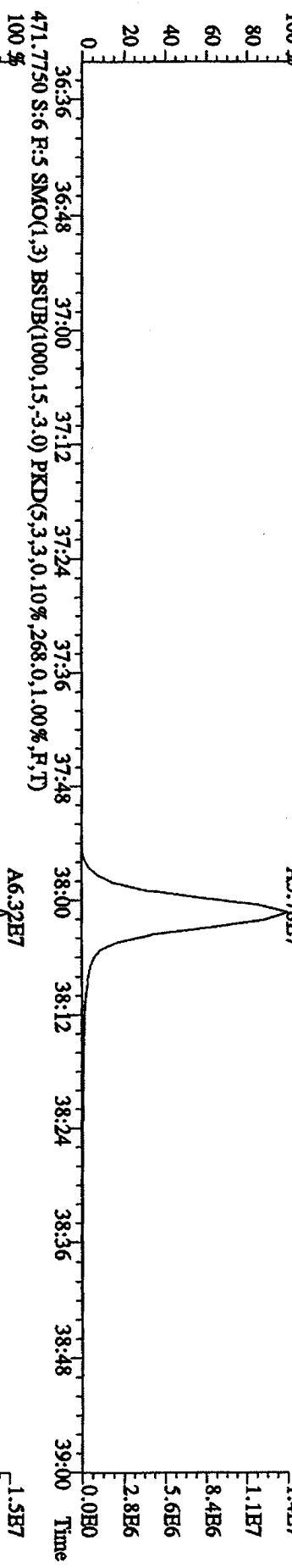
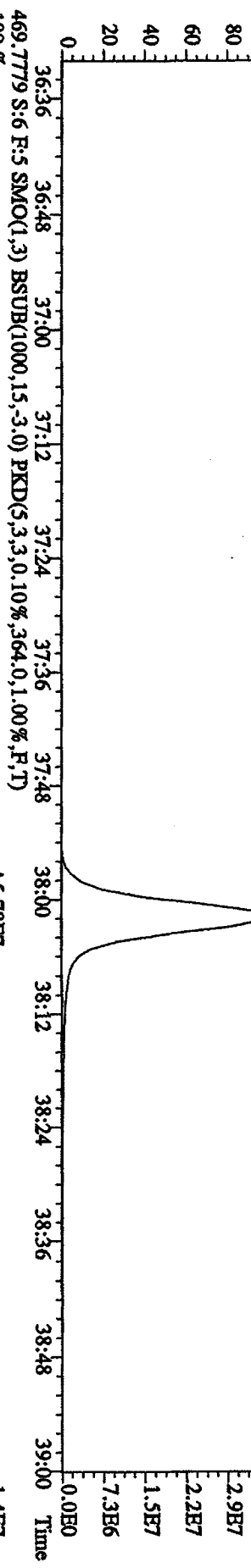
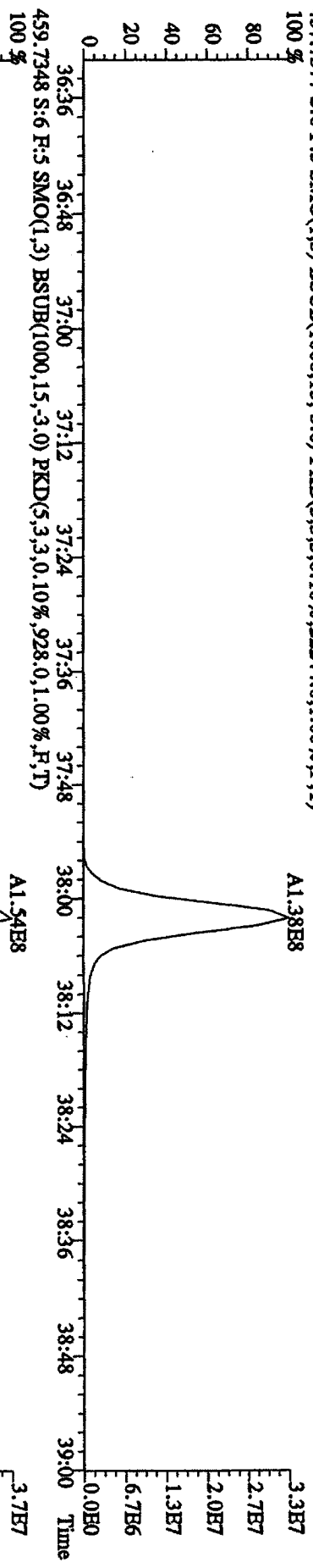
File:12AP104D5 #1-198 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltraB
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A
 423.7766 S:6 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,10928.0,1.00%,F,T)
 100 %



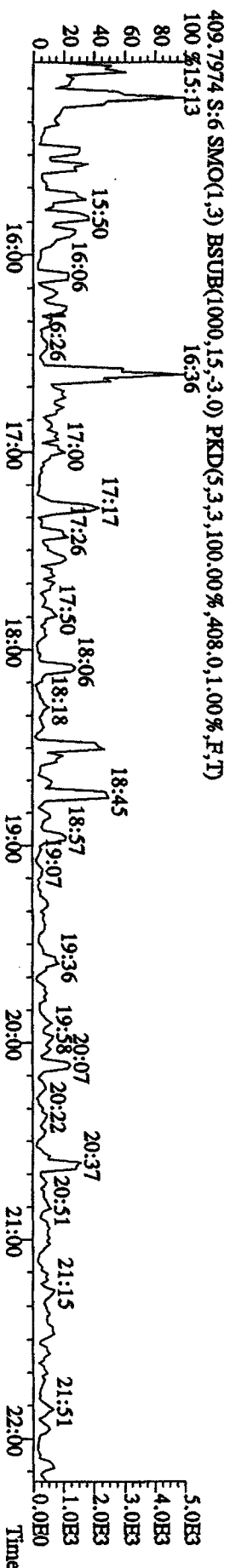
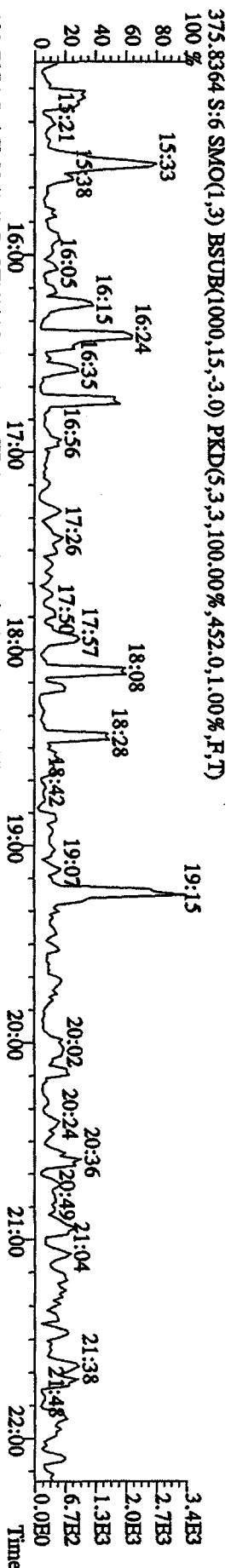
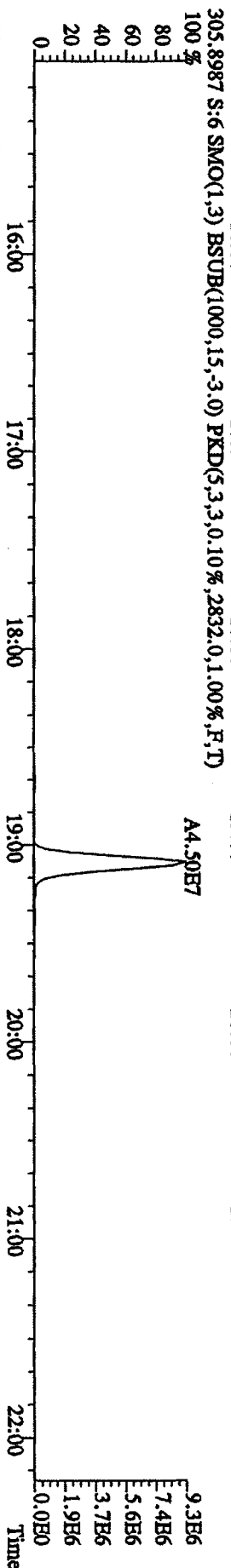
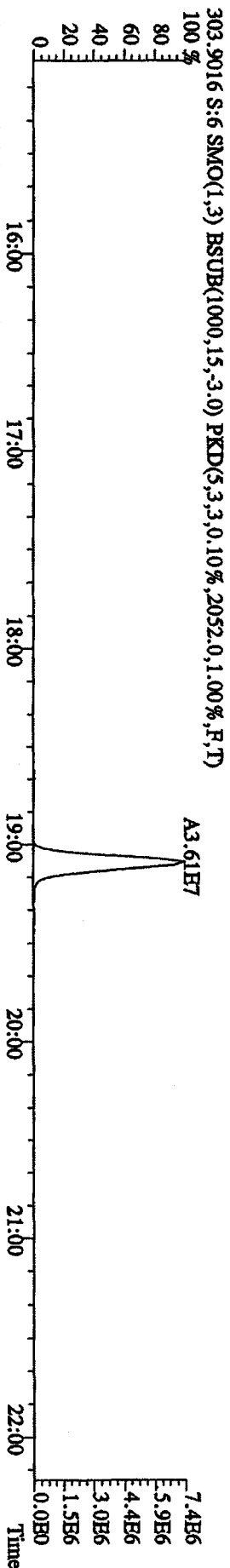
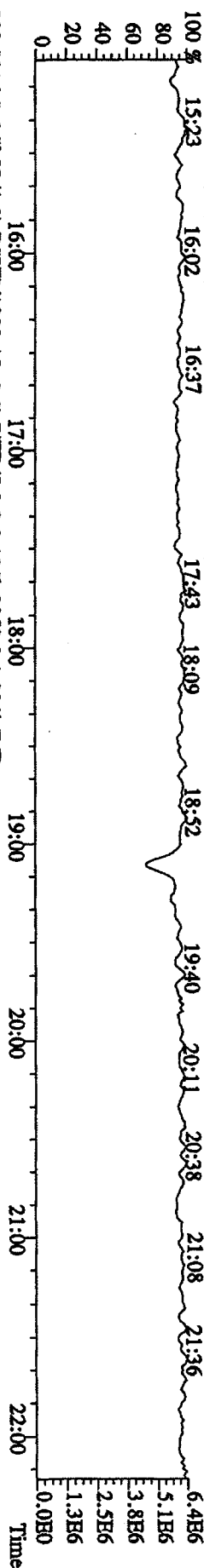
File:12AP104D5 #1-190 Acq:12-APR-2010 12:16:51 GC HI+ Voltage SIR Autospec-UHimaB
 Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A
 441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1272.0,1.00%,F,T)
 100%



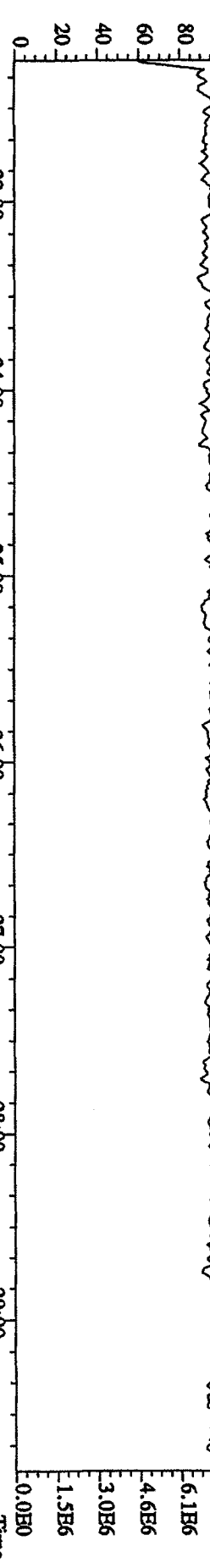
File:12AP104D5 #1-190 Acq:12-APR-2010 12:16:51 GC HI+ Voltage SIR Autospec-Ultimah
 Sample#6 Text:STU412D :CS-4 09DDXN426 Exp:DIOXINRES8290A
 457.7377 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,22244.0,1.00%,F,T)
 100%



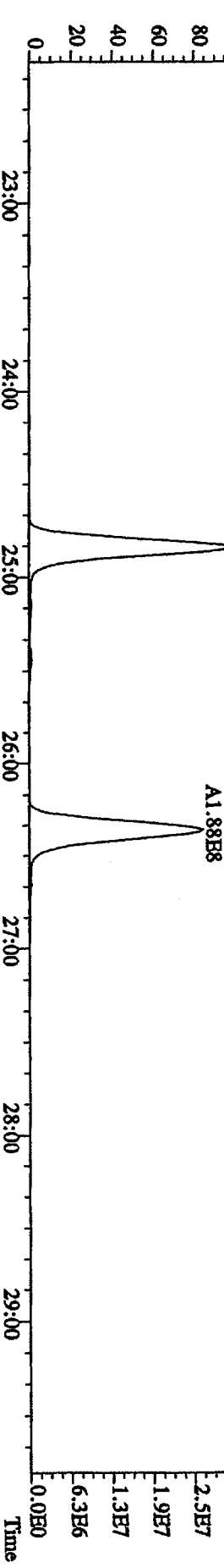
File:12AP104D5 #1-435 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text:ST0412D :CS-4-09DDXN426 Exp:DIOXINRES8290A



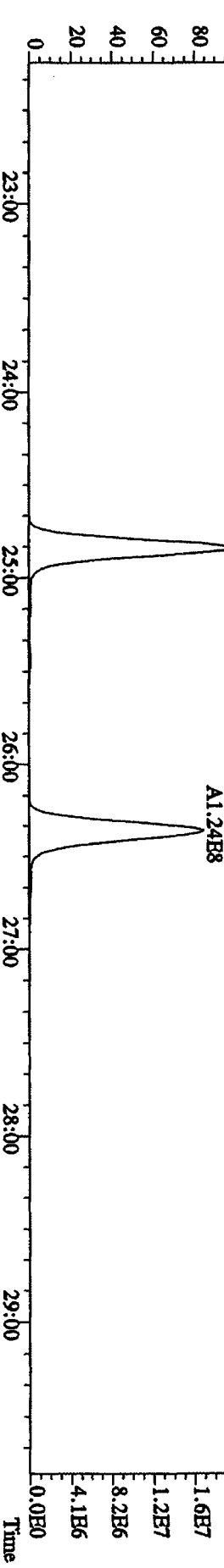
354.9792 S:6 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 23:03 23:30 23:56 24:39 25:27 25:57 26:30 27:00 27:49 28:16 28:59 29:30



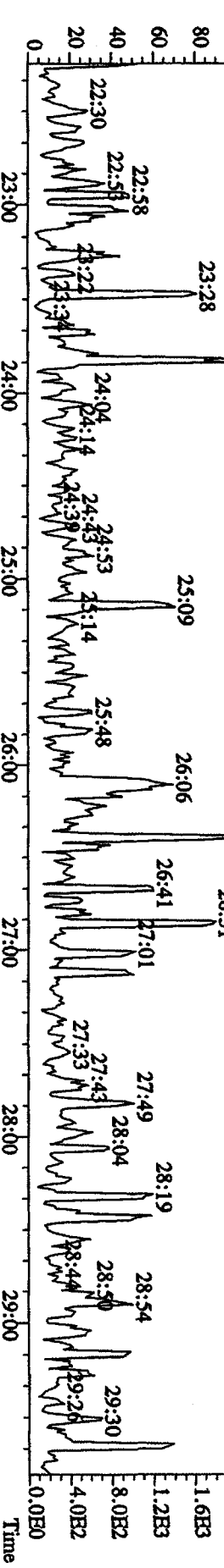
339.8597 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2416,0,1.00%,F,T) 25:00 25:50 26:00 26:30 27:00 28:00 29:00



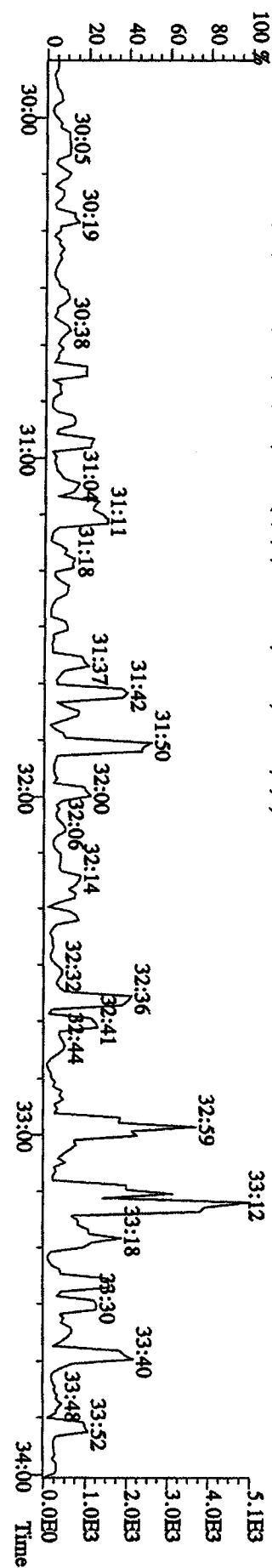
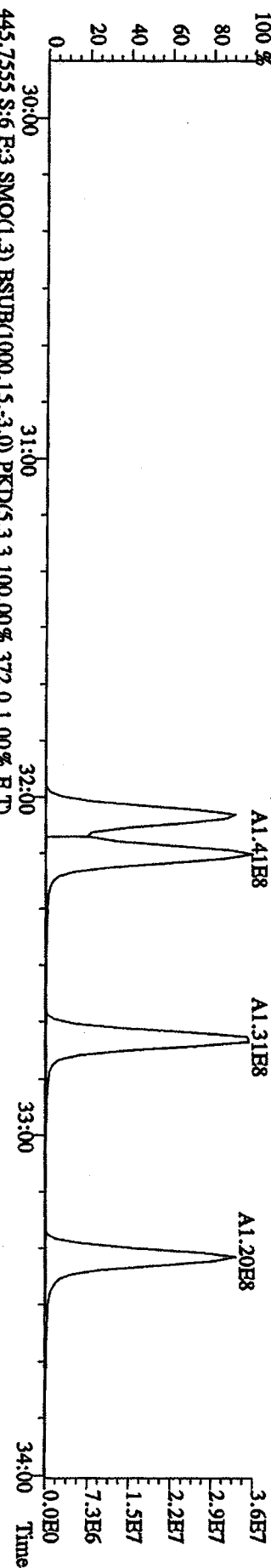
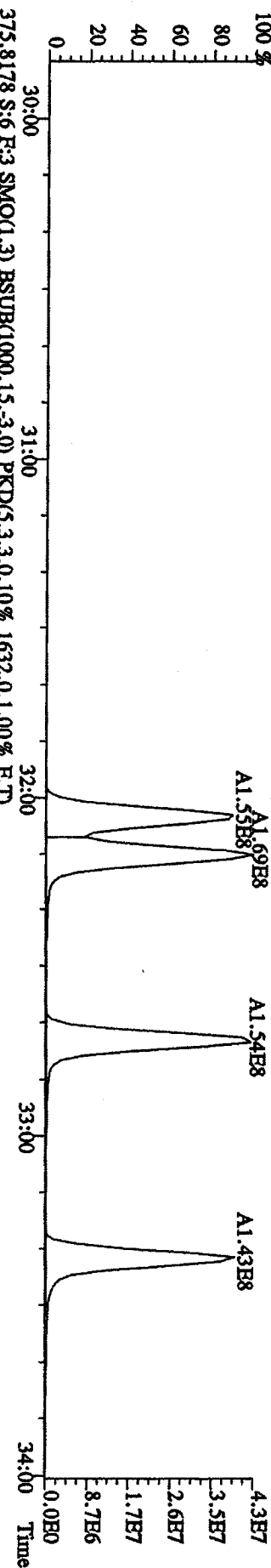
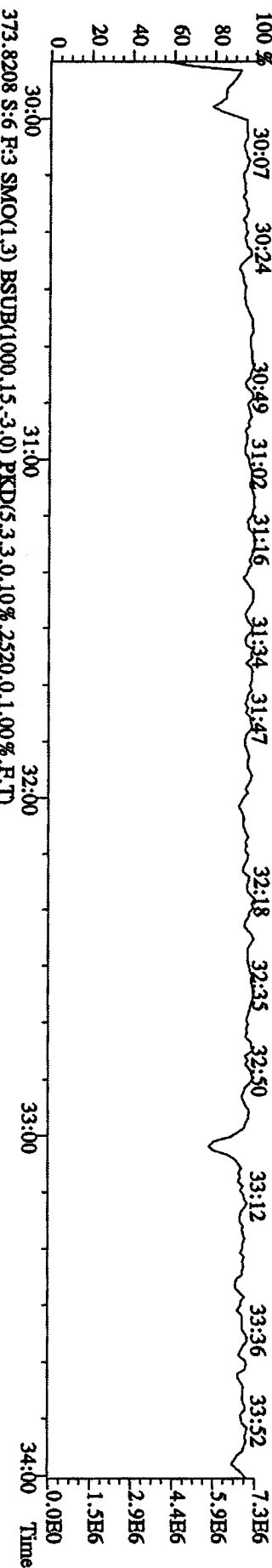
341.8567 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2652,0,1.00%,F,T) 25:00 25:50 26:00 26:30 27:00 28:00 29:00

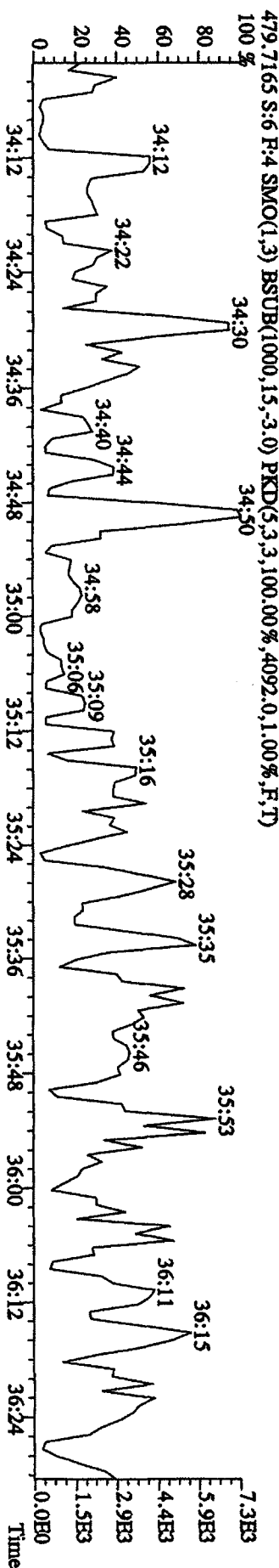
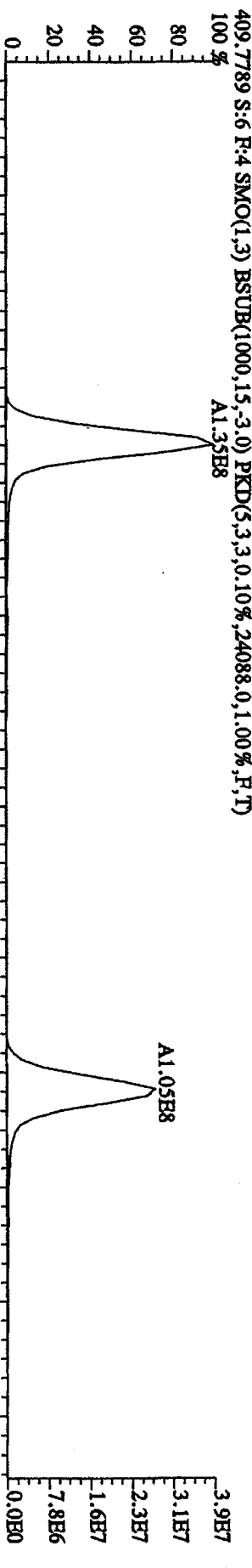
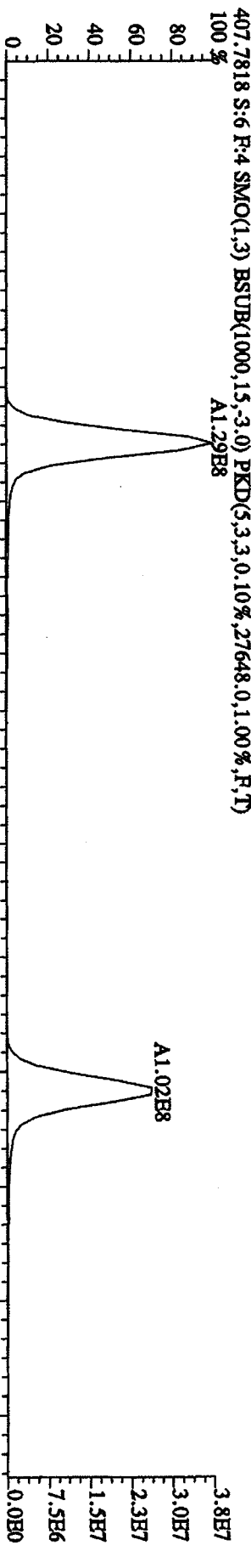
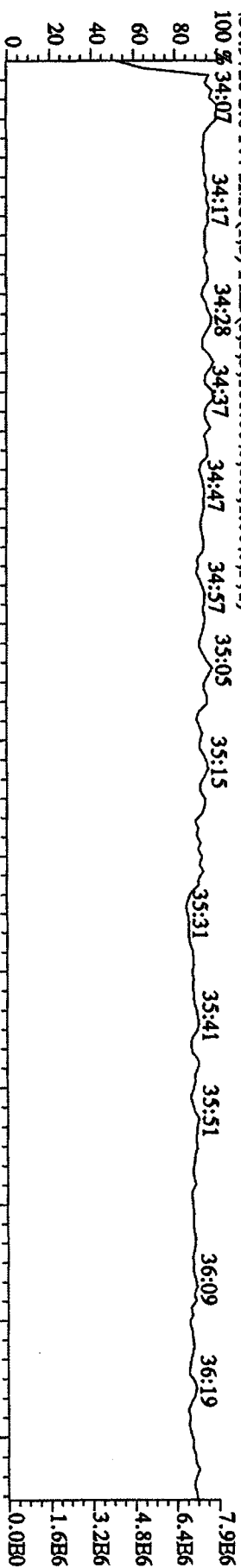


409.7974 S:6 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,380,0,1.00%,F,T) 23:00 23:30 23:58 24:04 24:14 24:30 24:39 24:53 25:09 25:14 25:48 26:06 26:24 26:41 26:51 27:01 27:43 27:49 28:04 28:19 28:54 28:59 29:30



File: 12AP104D5 #1-317 Acq: 12-APR-2010 12:16:51 GC BI+ Voltage SIR Autospec-UltimaB
 Sample#6 Text: ST0412D :CS-4 09DXN426 Exp: DIOXINRES8290A
 430.9728 S:6 F:3 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

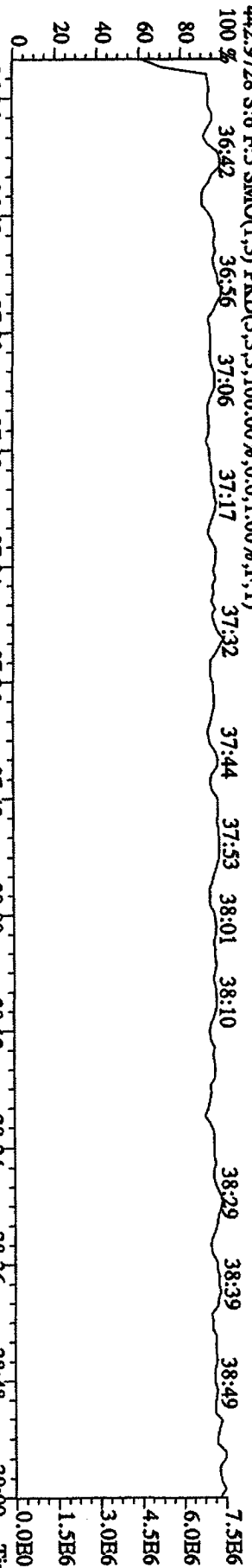




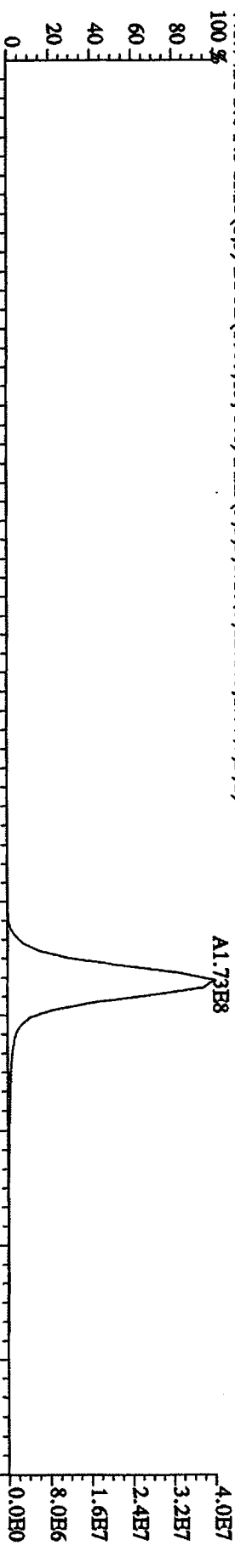
File:12AP104D5 #1-190 Acq:12-APR-2010 12:16:51 GC EI+ Voltage SIR Autospec-Ultimate

Sample#6 Text:ST0412D :CS-4 09DXN426 Exp:DIOXINRES8290A

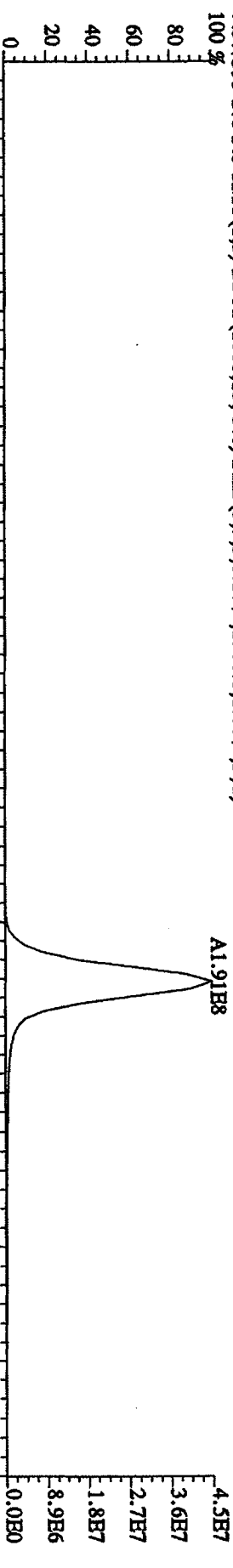
442.9728 S:6 F:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)



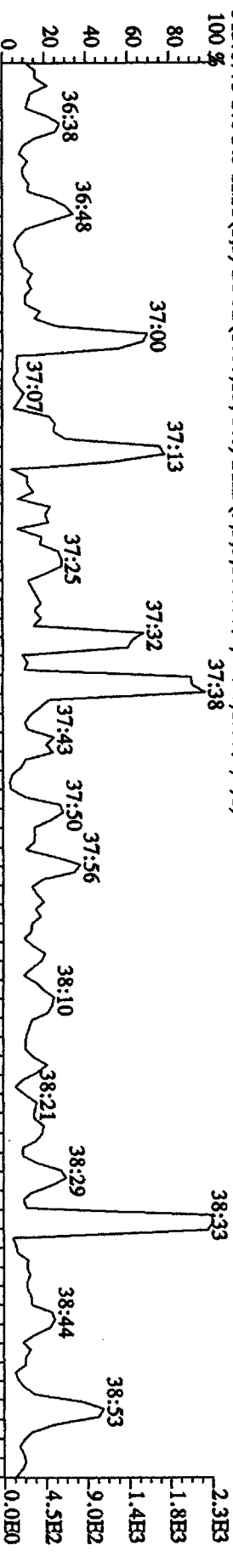
441.7428 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1272.0,1.00%,F,T)



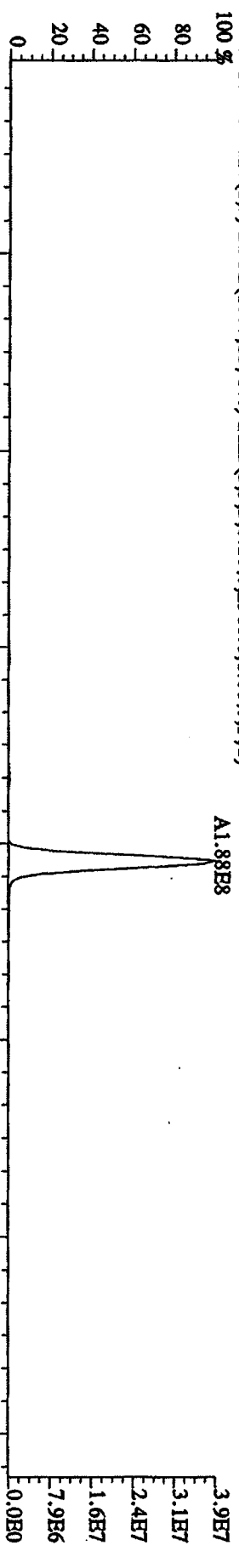
443.7399 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1588.0,1.00%,F,T)



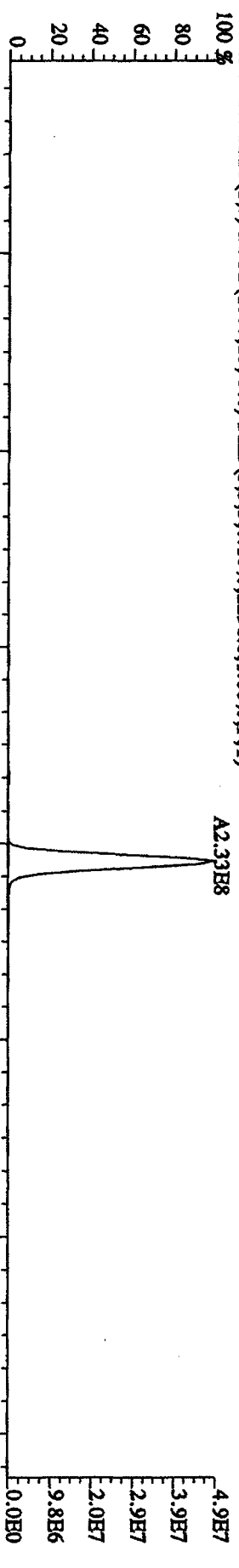
513.6775 S:6 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,5,100.00%,360.0,1.00%,F,T)



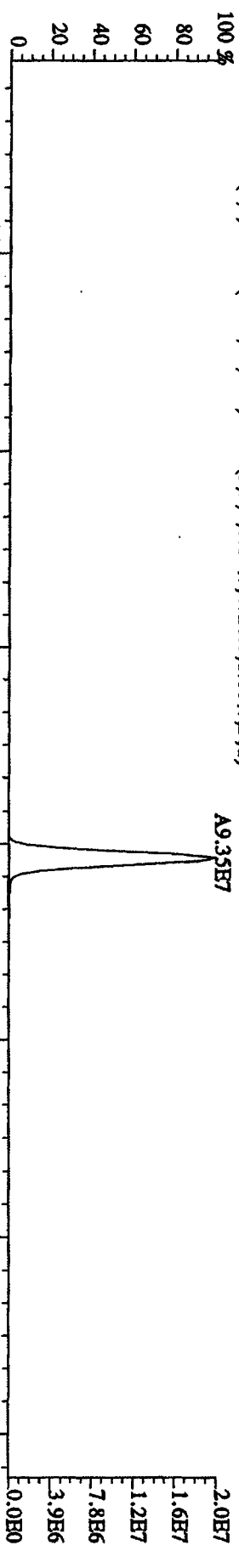
File:12AP104D5 #1-435 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaE
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A
 303.9016 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2960,0,1,00%,F,T)



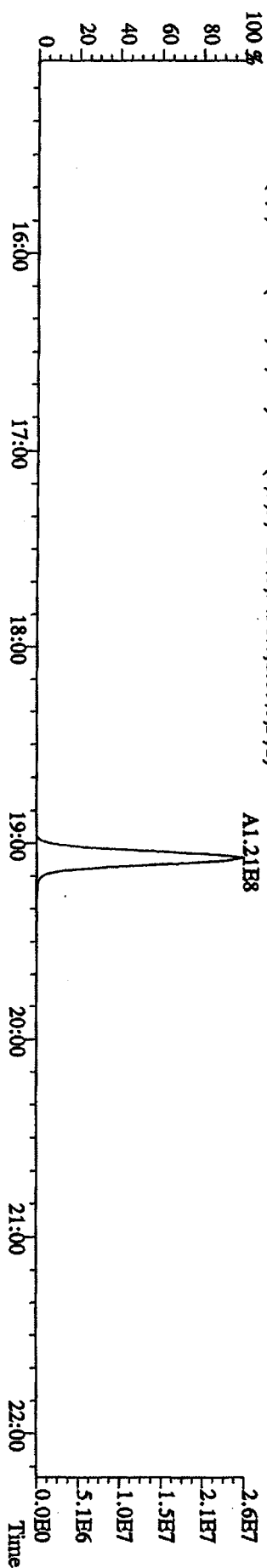
305.8987 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,2296,0,1,00%,F,T)



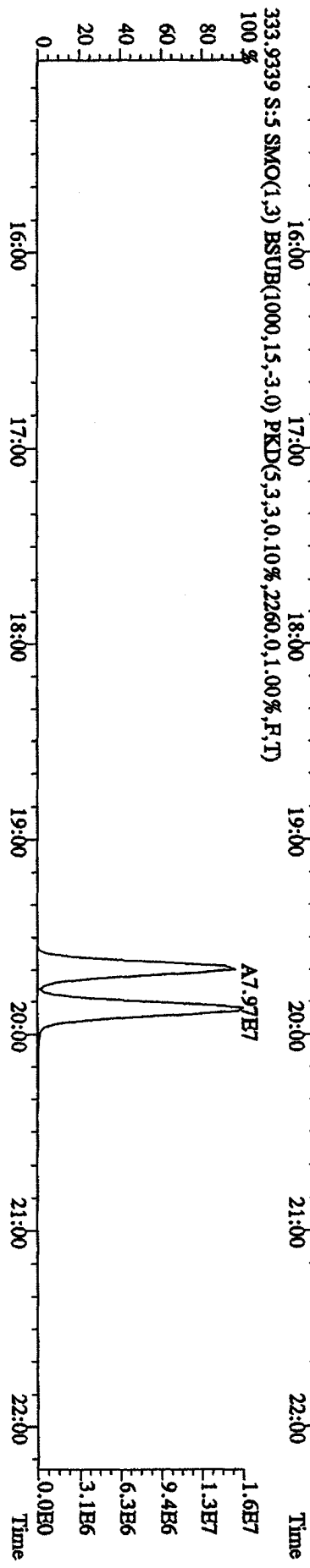
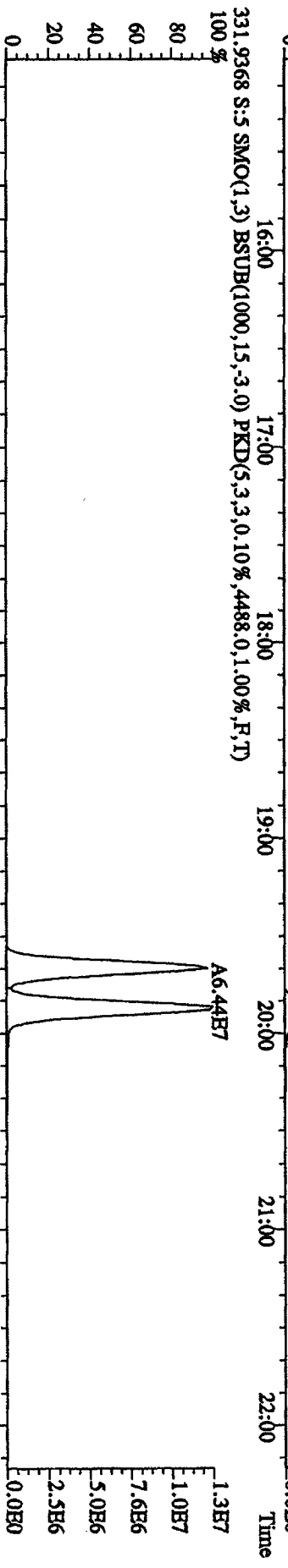
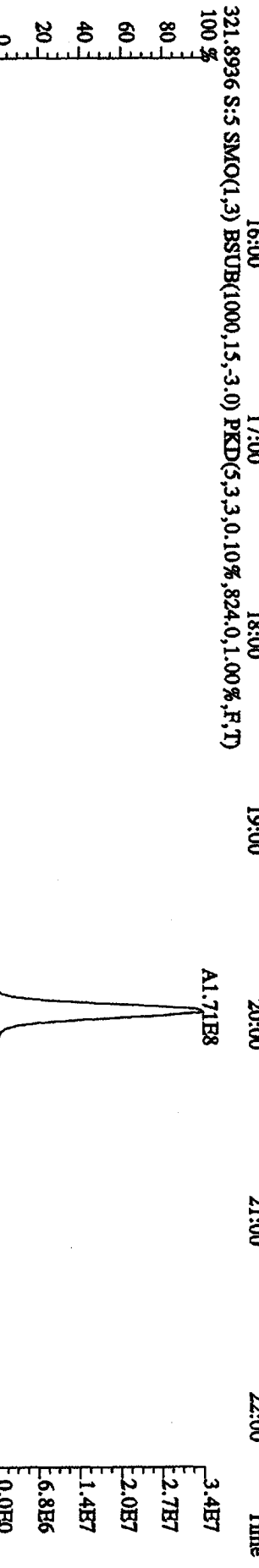
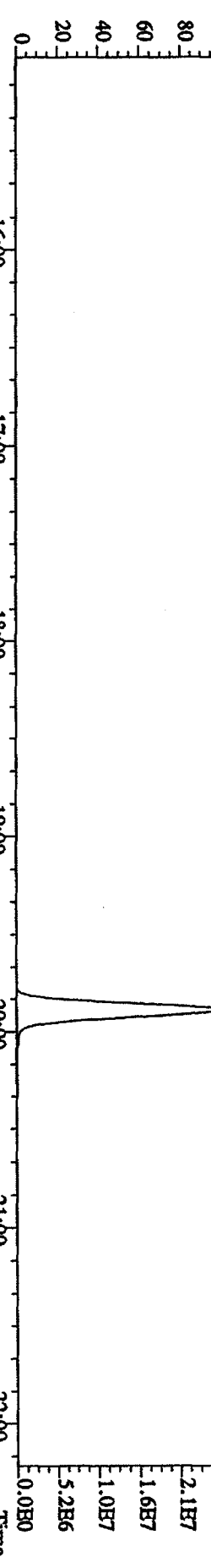
315.9419 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,4728,0,1,00%,F,T)



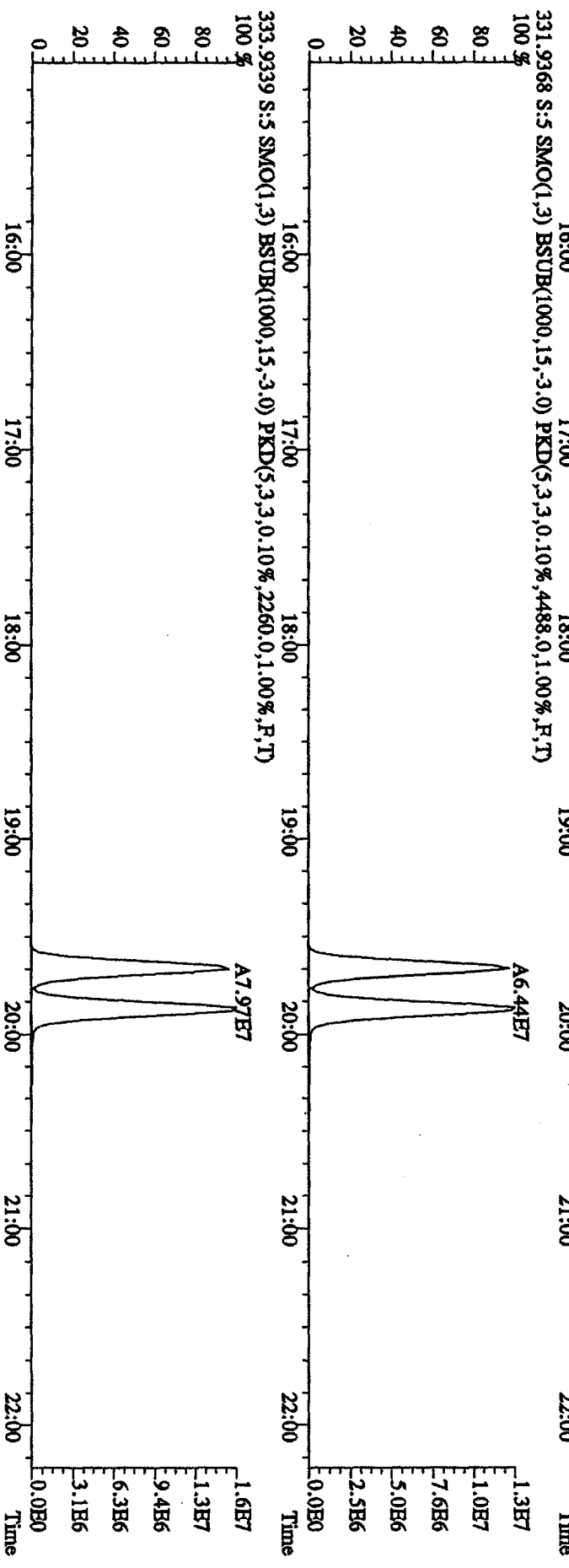
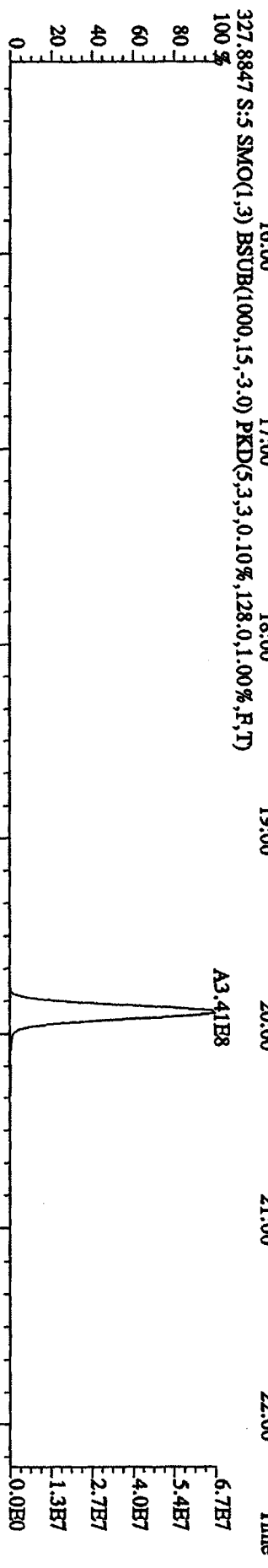
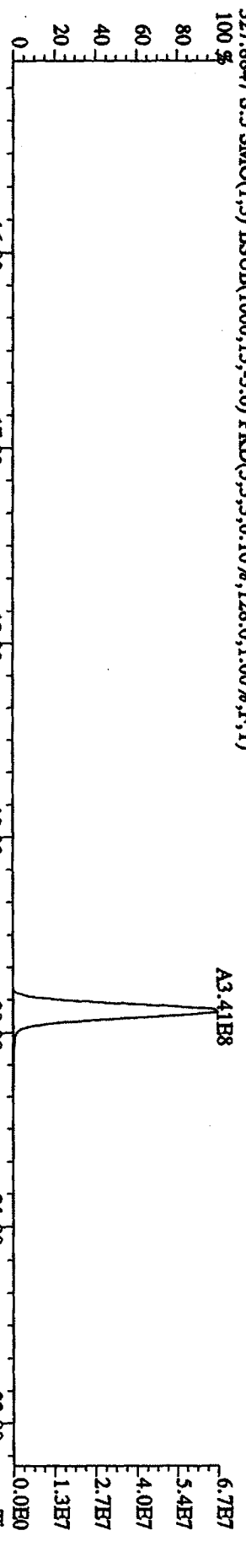
317.9389 S:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,3496,0,1,00%,F,T)



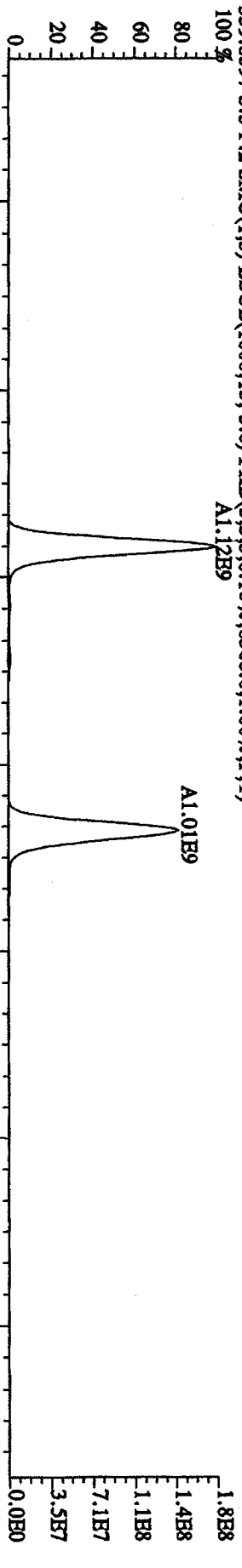
File: 12AP104D5 #1-435 Acq: 12-APR-2010 11:32:49 GC EF+ Voltage SIR Autospec-UltimaE
 Sample#5 Text: ST0412C :CS-5 09DXN456 Exp: DIOXINRES8290A
 319.8965 S:5 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1000,0,1.00%,F,T) 100%



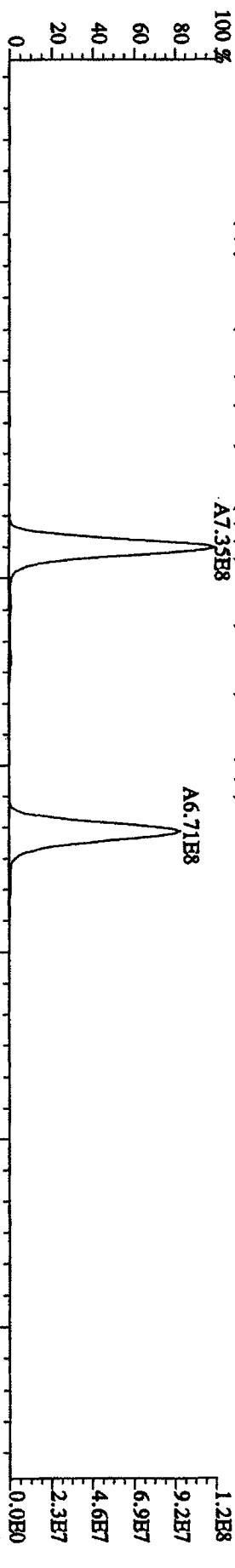
File:12AP104D5 #1-435 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UHimaE
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A
 327.8847 S:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,128.0,1.00%,F,T)
 100%



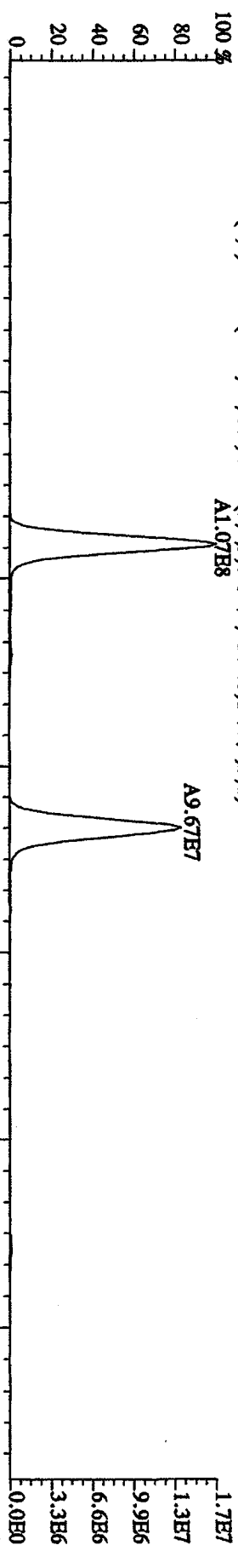
File:12AP104D5 #1-604 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:ST0412C :CS-5 09DDXN456 Exp:DIOXINRES8290A
 339.8597 S.:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,8368.0,1.00%,F,T) A1.12B9
 100 %



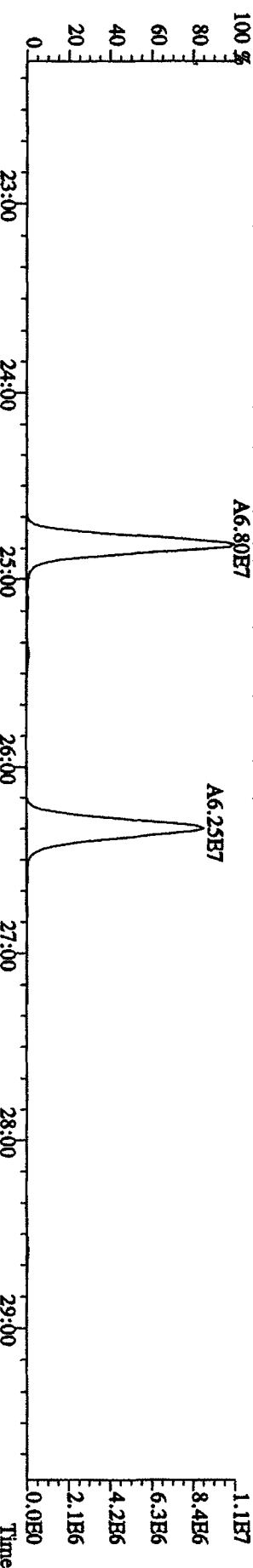
341.8567 S.:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4044.0,1.00%,F,T) A7.35B8
 100 %



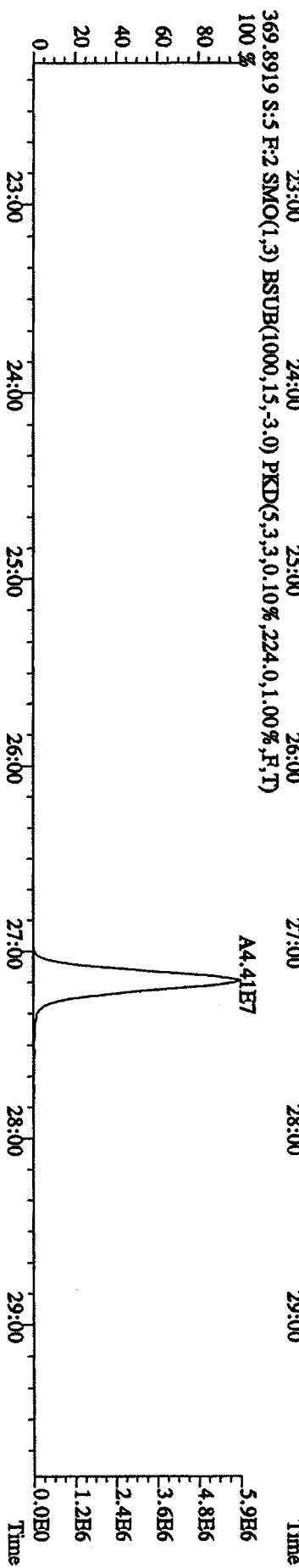
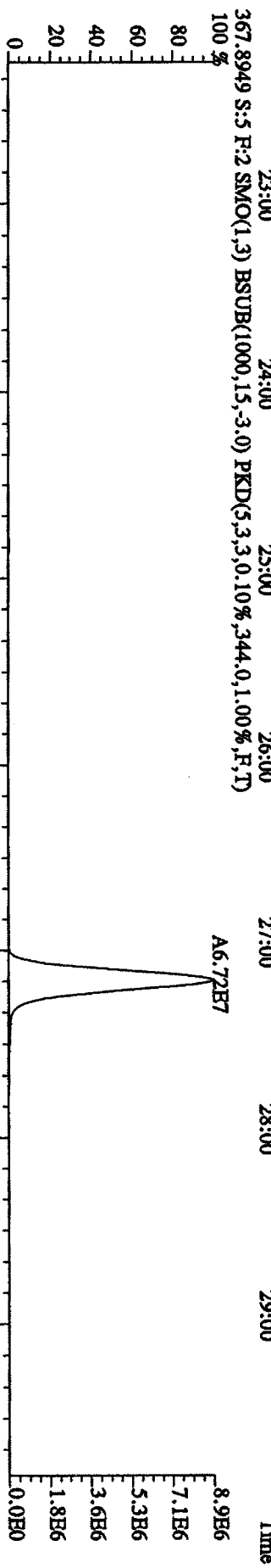
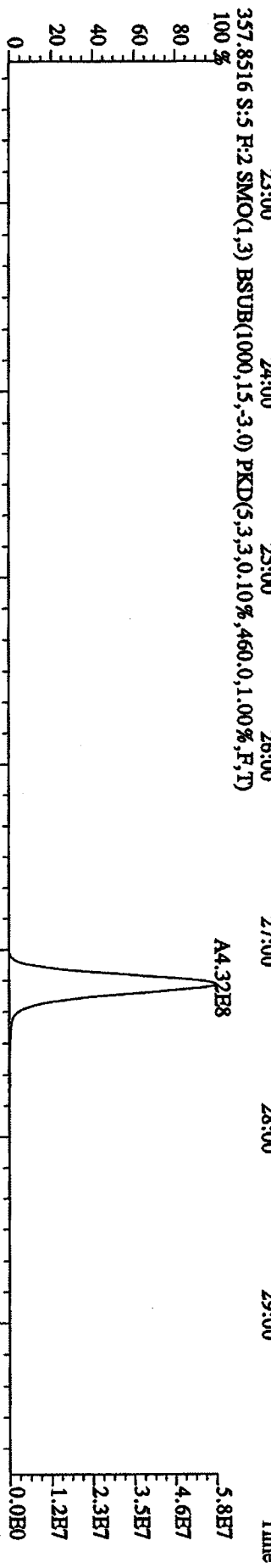
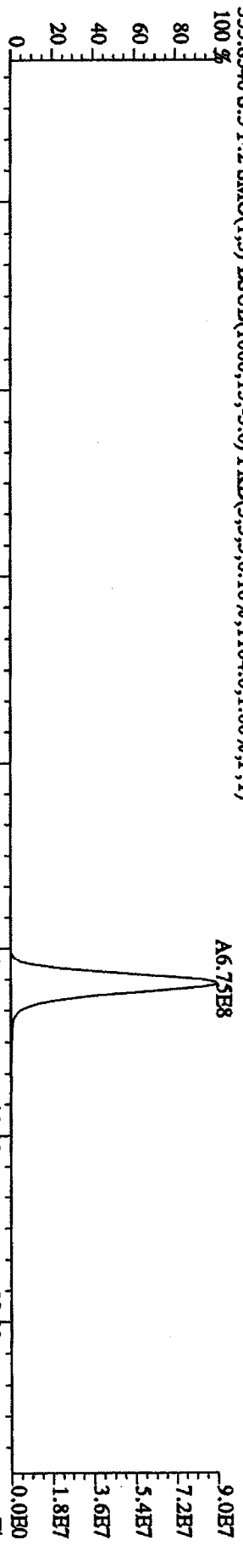
351.9000 S.:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2240.0,1.00%,F,T) A1.07B8
 100 %



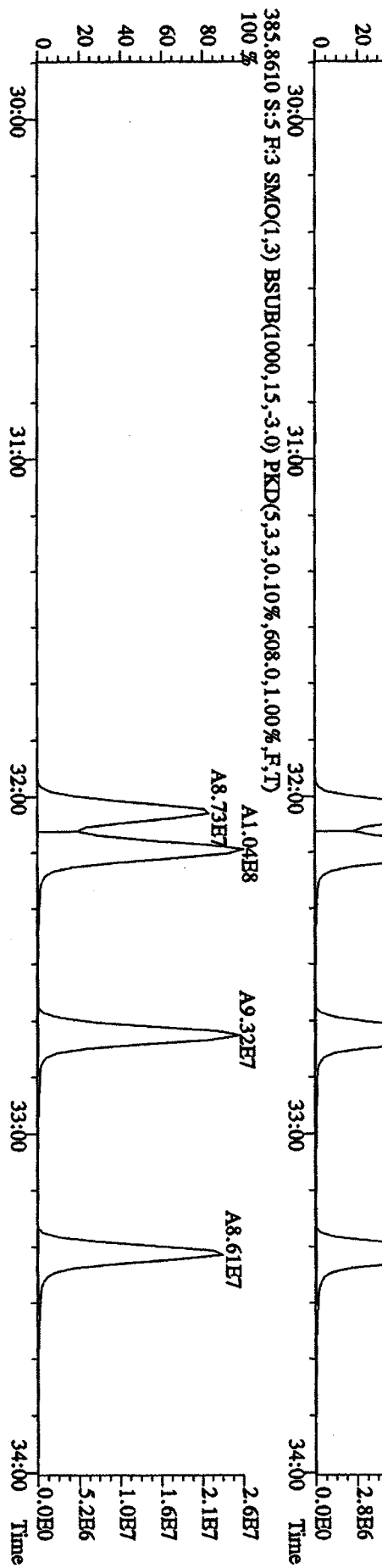
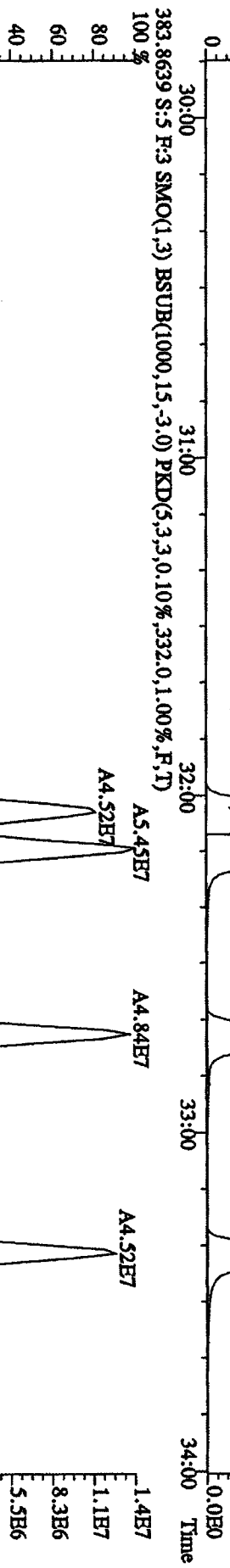
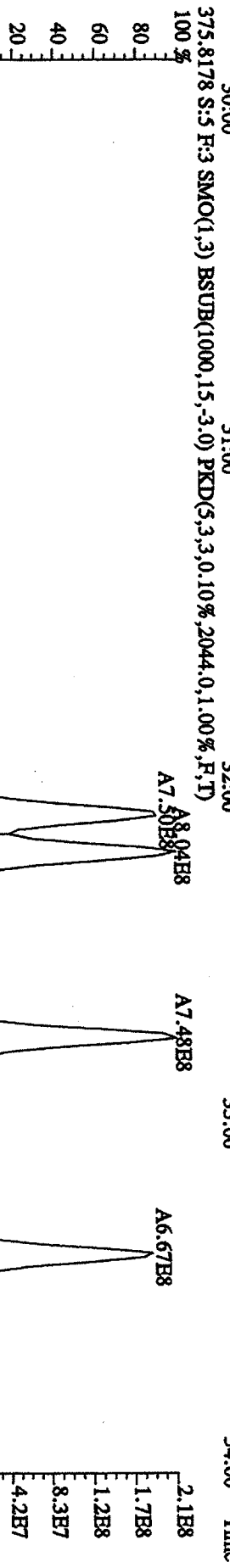
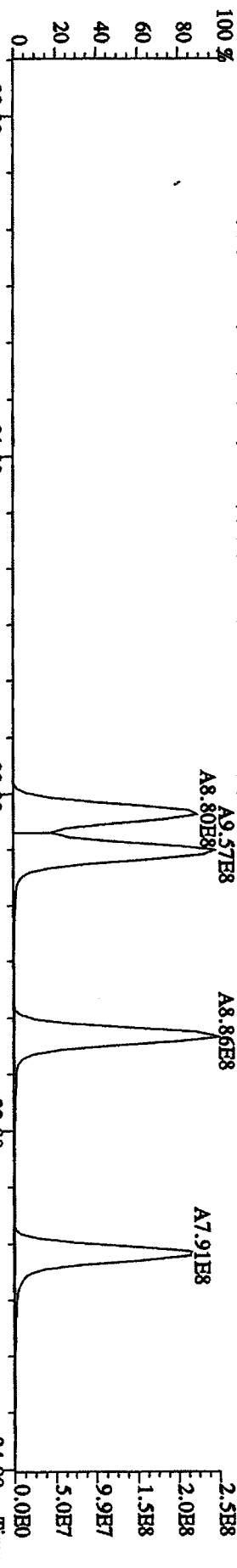
353.8970 S.:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2120.0,1.00%,F,T) A6.80E7
 100 %



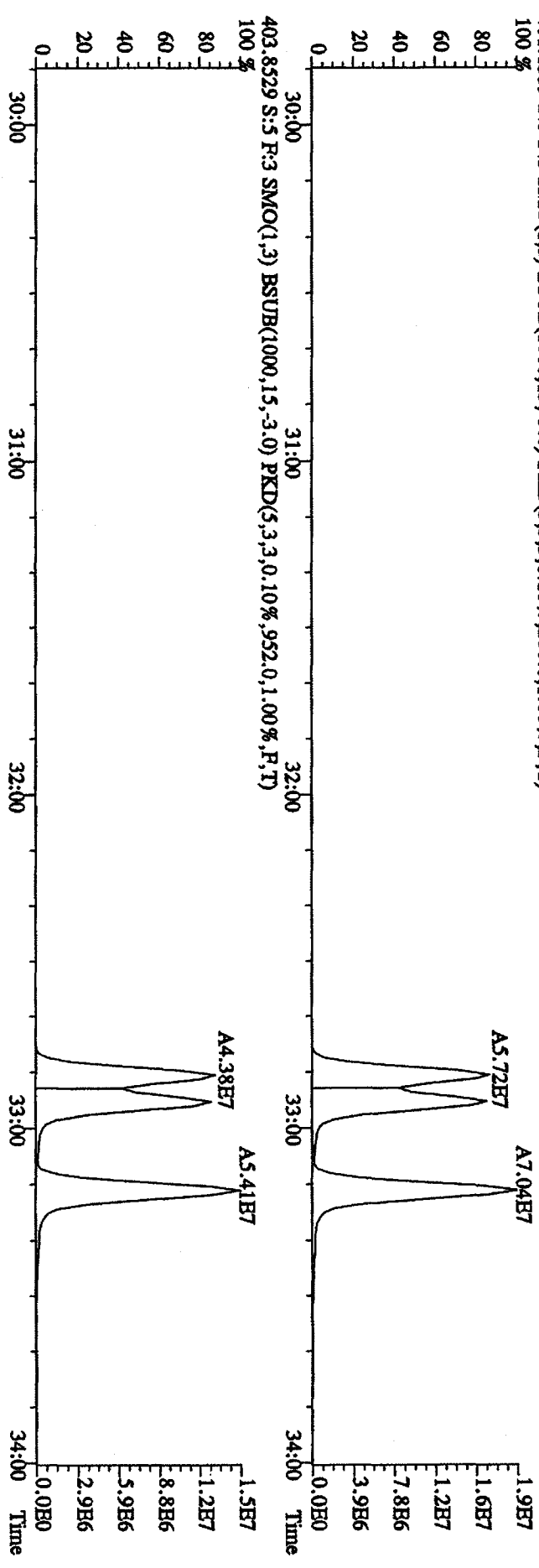
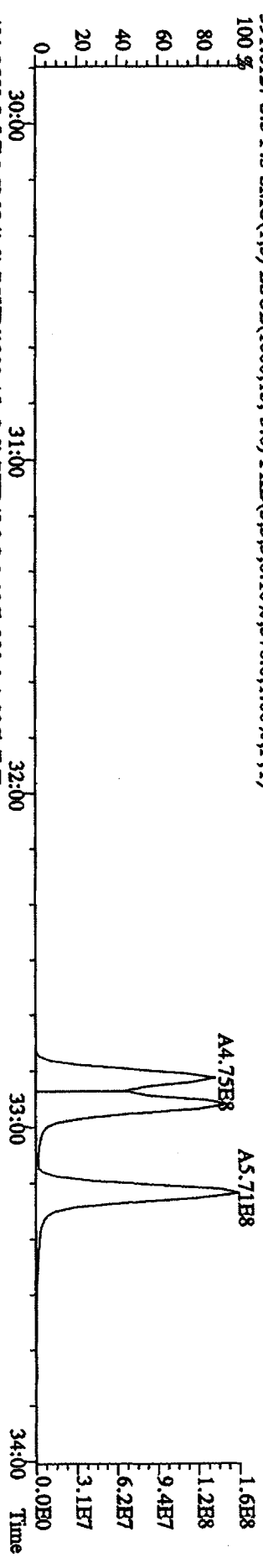
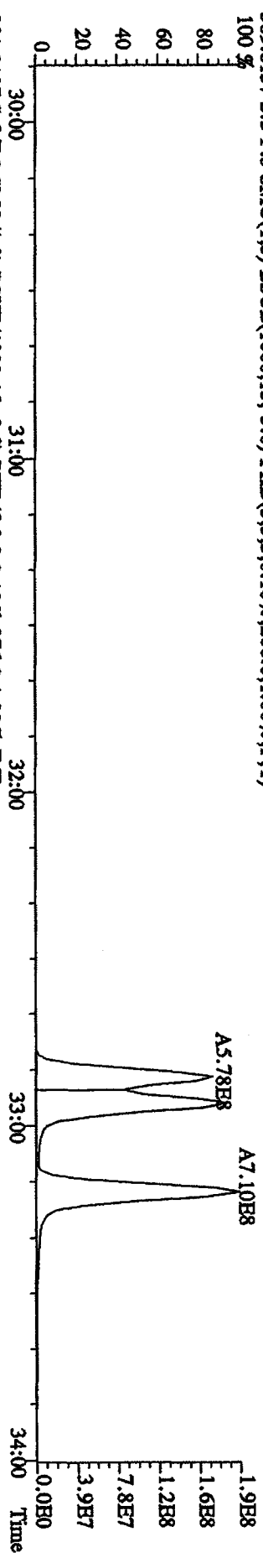
File:12AP104D5 #1-604 Acq:12-APR-2010 11:32:49 GC BI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A
 355.8546 S:5 F:2 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1104.0,1.00%,F,T)



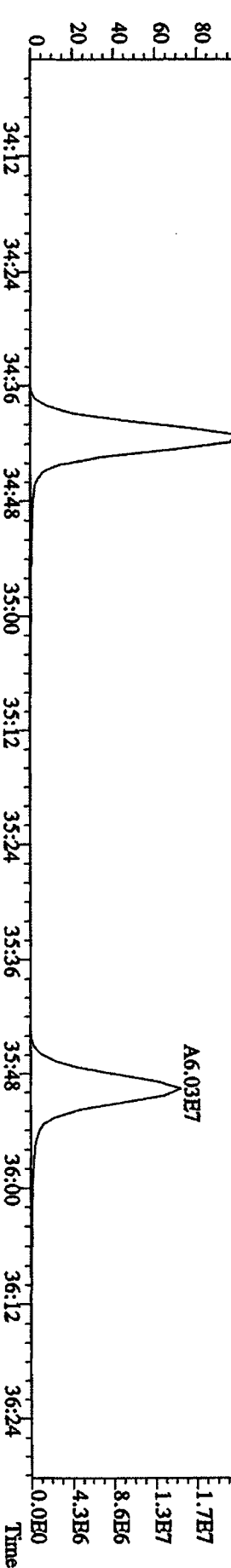
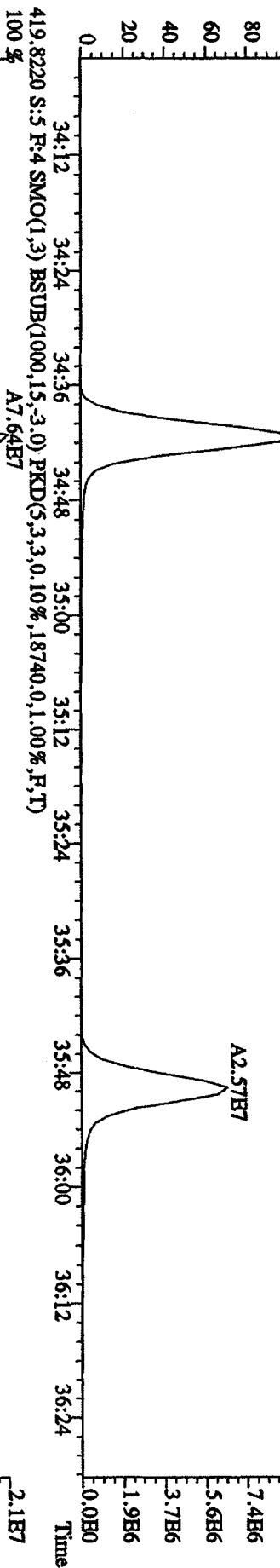
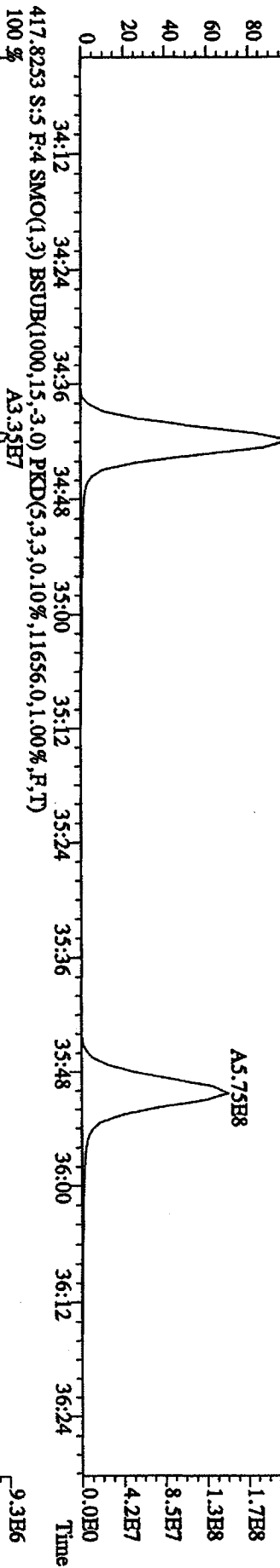
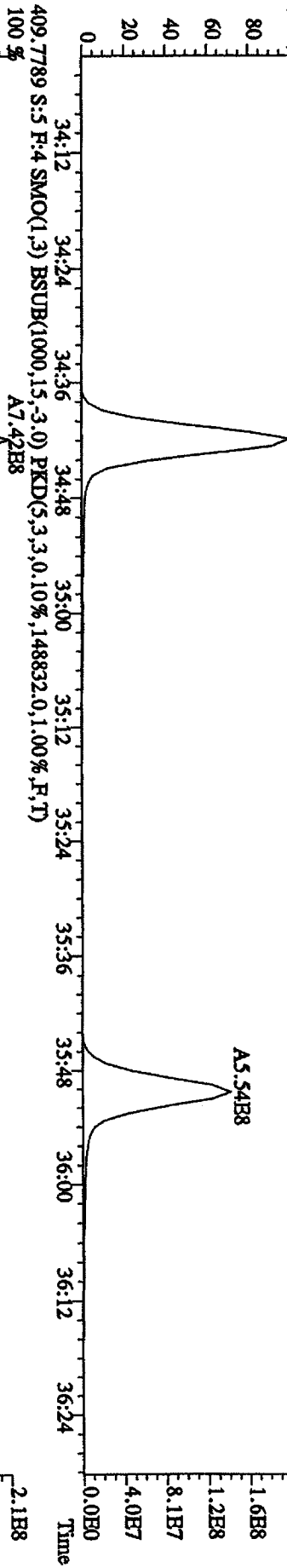
File:12AP104D5 #1-317 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A
 373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3020.0,1.00%,F,T)



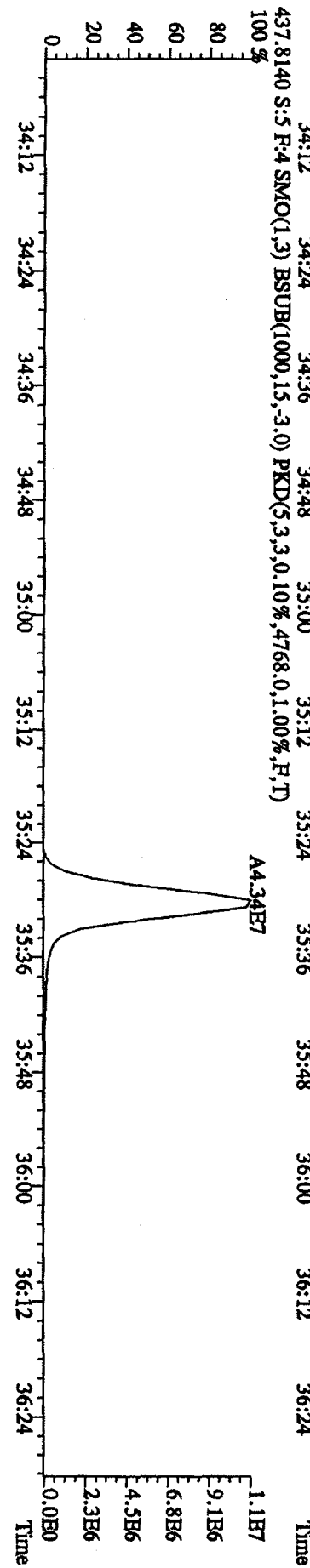
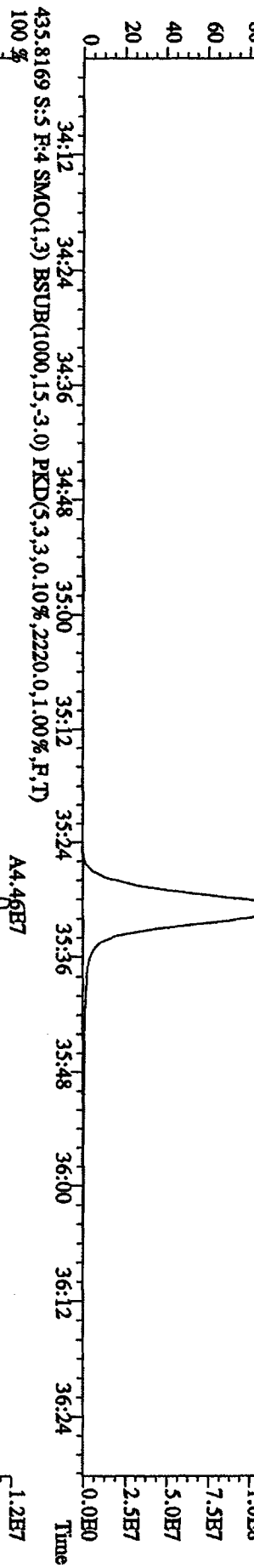
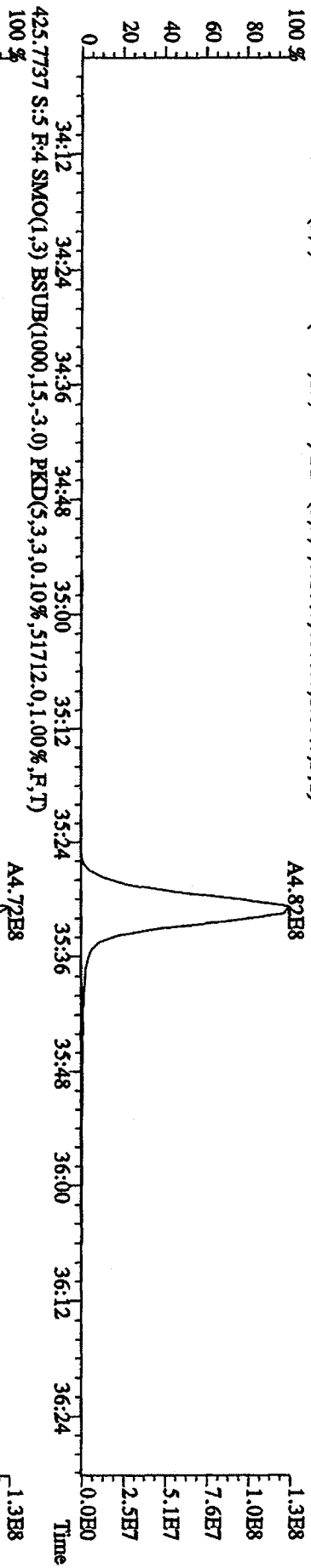
File: 12AP104D5 #1-317 Acq: 12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-Ultimat
 Sample#5 Text: ST0412C :CS-5 09DXN456 Exp: DIOXINRES8290A
 389.8157 S:5 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,208,0,1.00%,F,T) 100%



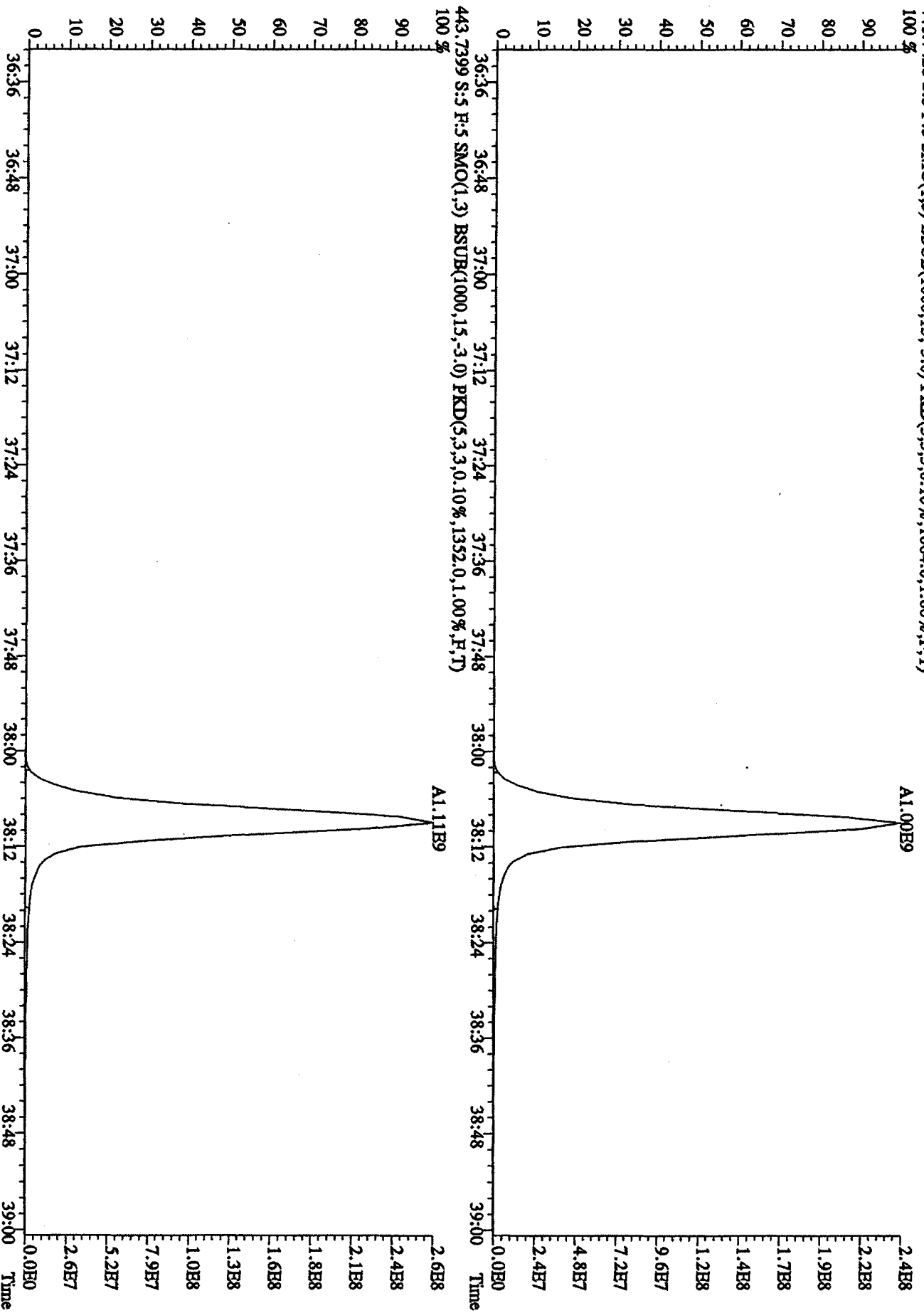
File:12AP104D5 #1-198 Acq:12-APR-2010 11:32:49 GC BI+ Voltage SIR Autospec-Ultimate
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRESS8290A
 407.7818 S:5 F:4 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,81496,0,1.00%,F,T) 100%
 A7.12E8



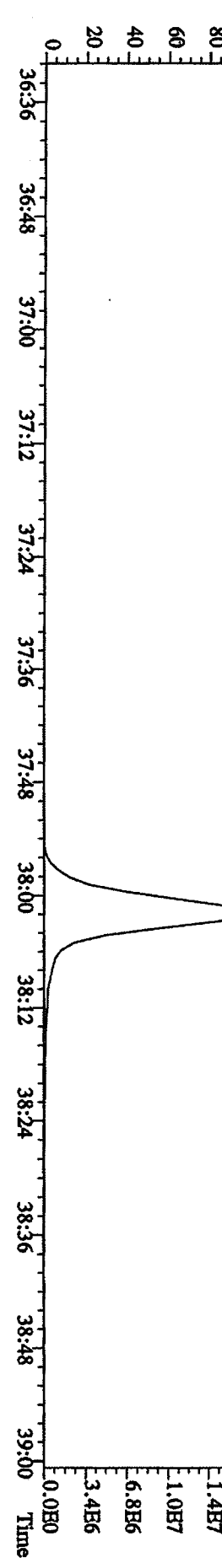
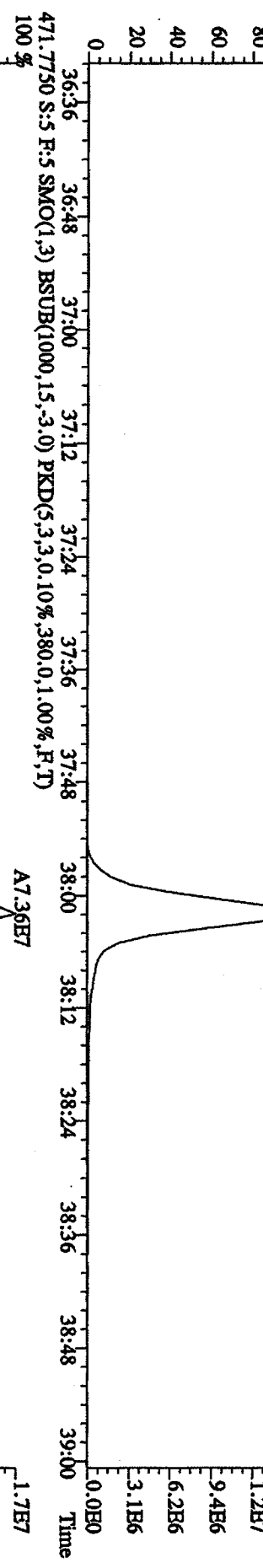
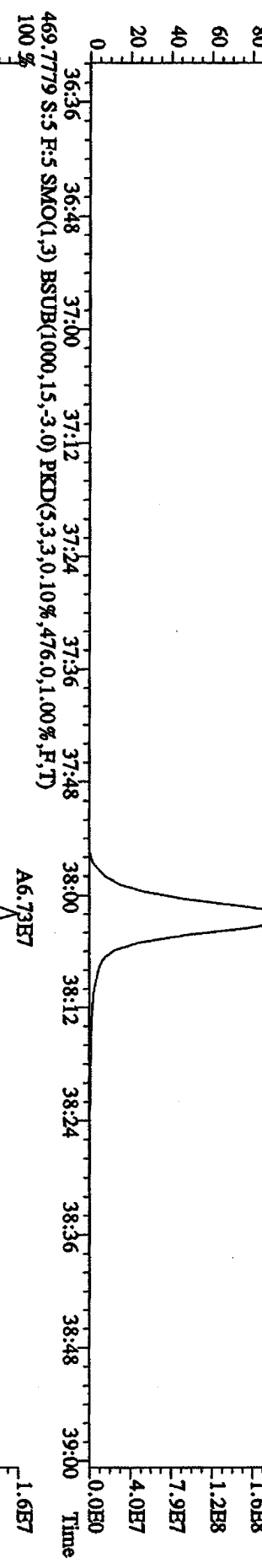
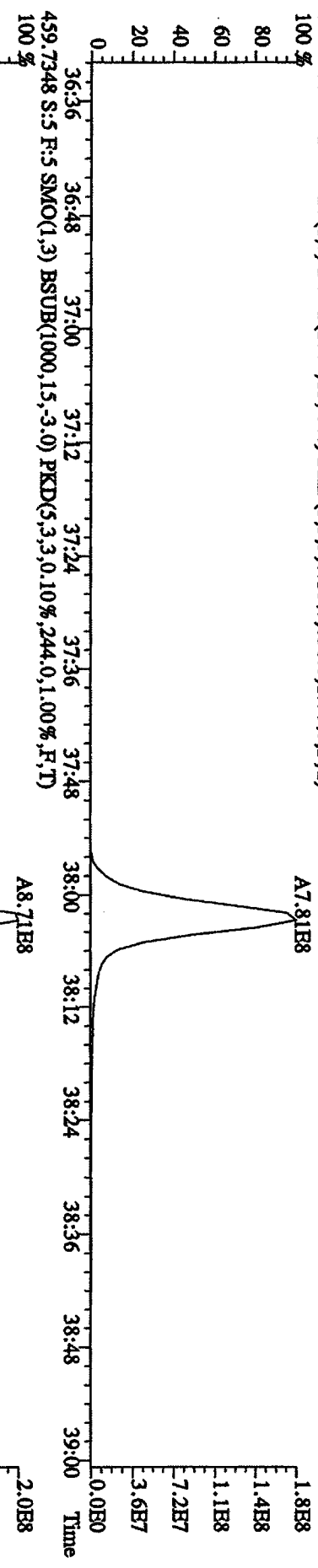
File: 12AP104D5 #1-198 Acq: 12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UltraH
 Sample#5 Text: ST0412C :CS-5 09DXN456 Exp: DIOXINRES8290A
 423.7766 S:5 F:4 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,4800.0,1.00%,F,T) 100%



File: 12AP104D5 #1-191 Acq: 12-APR-2010 11:32:49 GC EI+ Voltage: SIR Autospec-UltimaB
 Sample#5 Text: ST0412C :CS-5 09DXN456 Exp: DIOXINRES8290A
 441.7428 S:5 F:5 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1064.0,1.00%,F,T)

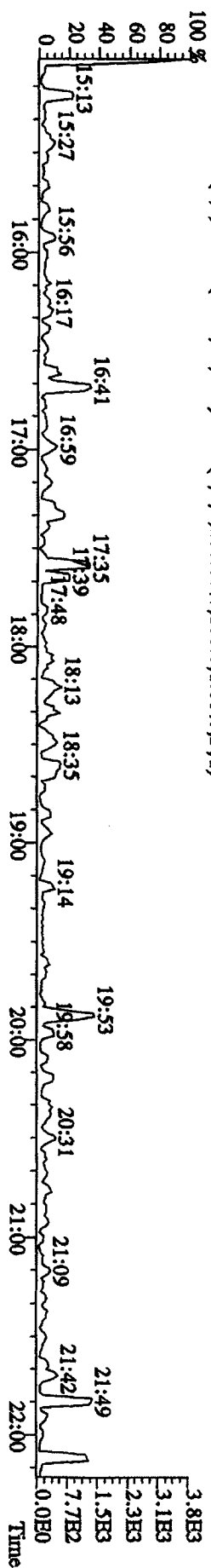
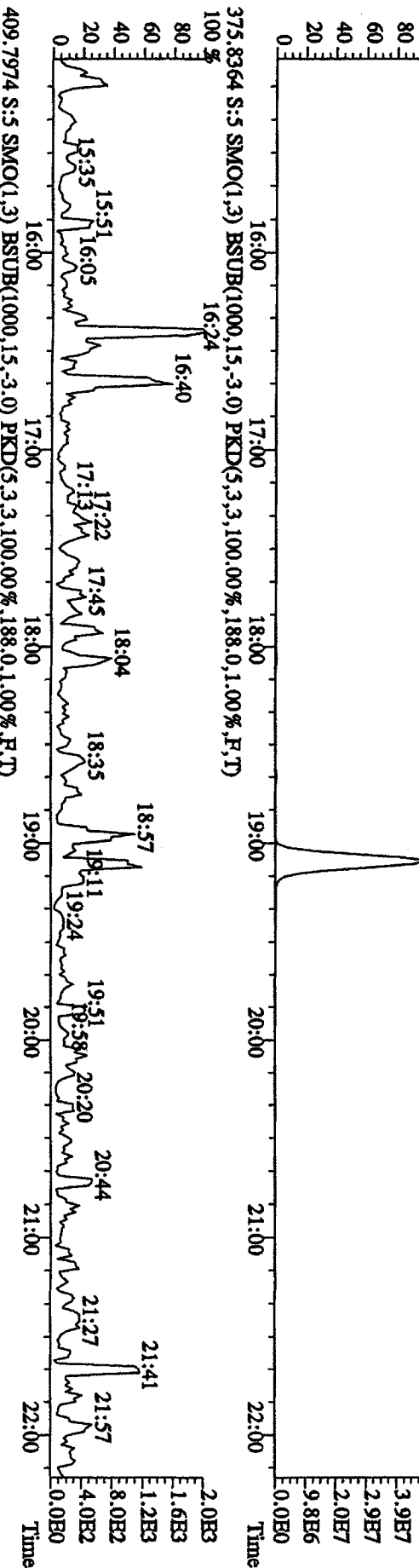
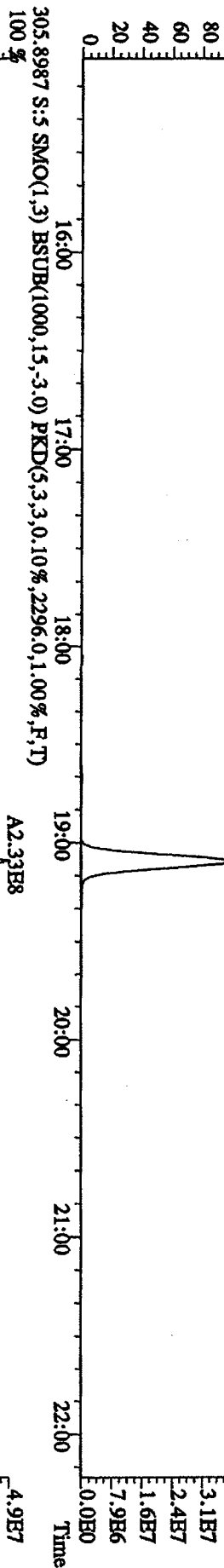
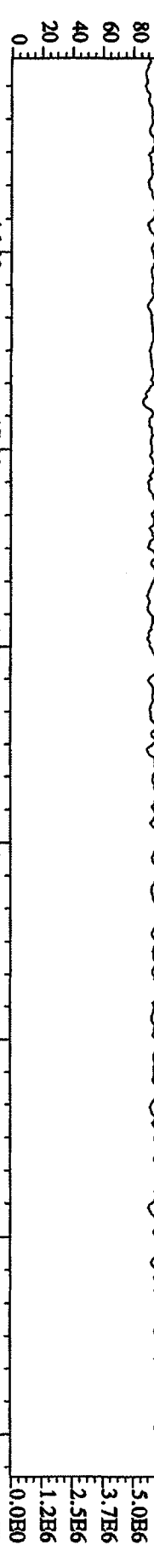


File:12AP104D5 #1-191 Acq:12-APR-2010 11:32:49 GC HI+ Voltage SIR Autospec-UltimaB
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A
 457.7377 S:5 F:5 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,836.0,1.00%,F,T)
 100 %



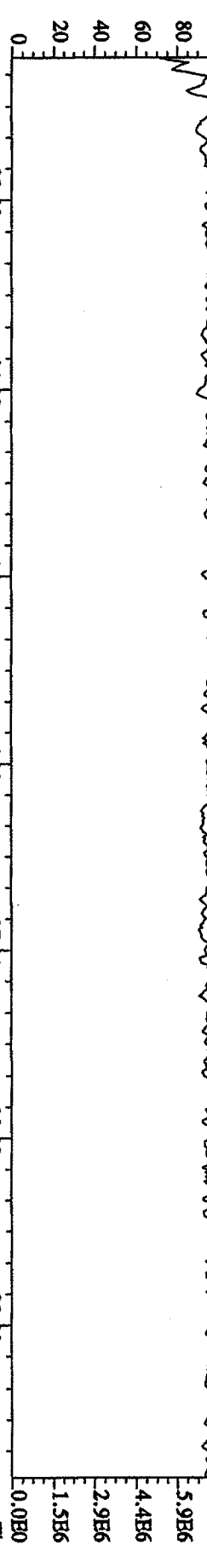
Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A

354.9792 S:5 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T)

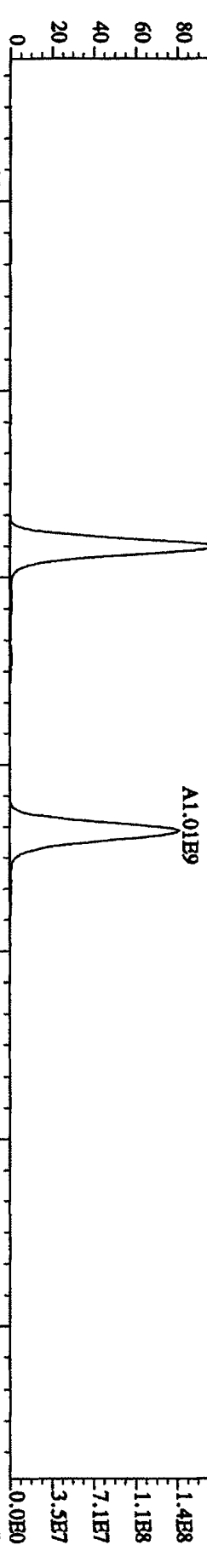


File:12AP104D5 #1-604 Acq:12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-Ultimat
 Sample#5 Text:ST0412C :CS-5 09DXN456 Exp:DIOXINRES8290A

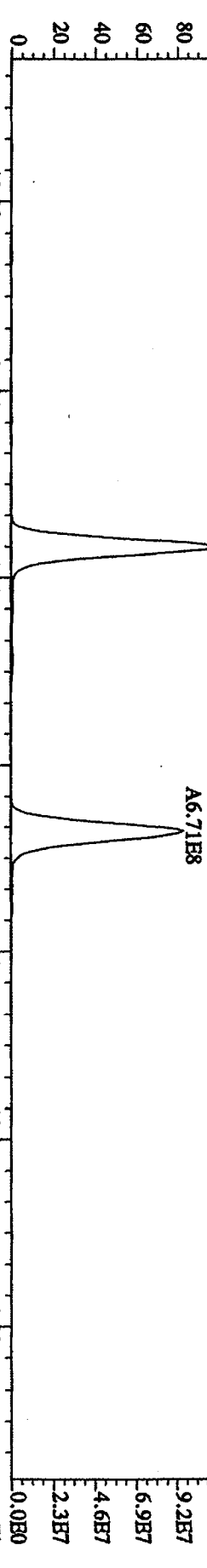
354.9792 S:5 F:2 SMO(1,3) PKD(5,3,3,100.00%,0.0,1.00%,F,T) 22:52 23:30 23:54 24:28 24:57 25:22 25:45 26:12 26:38 27:19 27:43 28:16 28:59 29:25



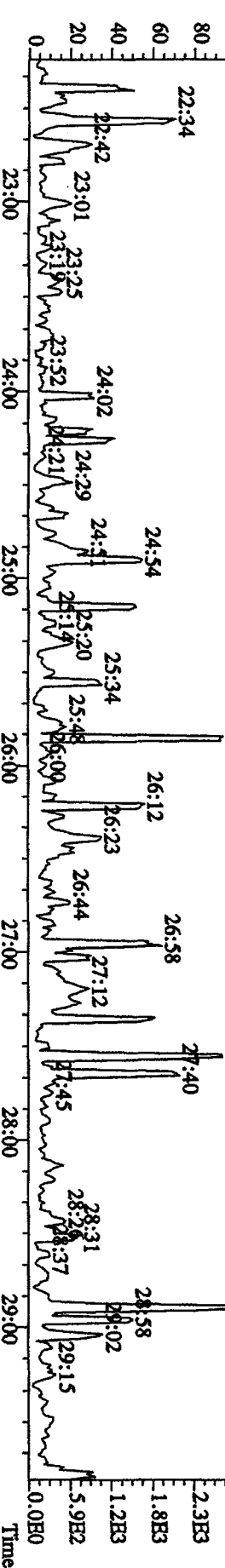
339.8597 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,8368,0,1.00%,F,T) 23:00 24:00 25:00 26:00 27:00 28:00 29:00



341.8567 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,4044,0,1.00%,F,T) 23:00 24:00 25:00 26:00 27:00 28:00 29:00



409.7974 S:5 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,100.00%,312,0,1.00%,F,T) 23:00 24:00 25:00 26:00 27:00 28:00 29:00

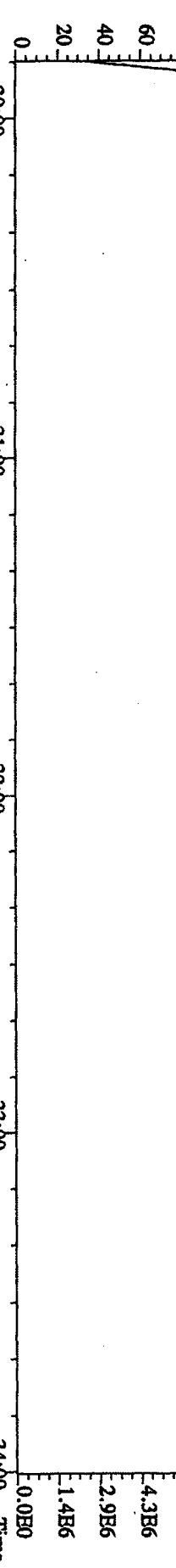


File: 12AP104D5 #1-317 Acq: 12-APR-2010 11:32:49 GC HI+ Voltage SIR Autospec-Ultimate

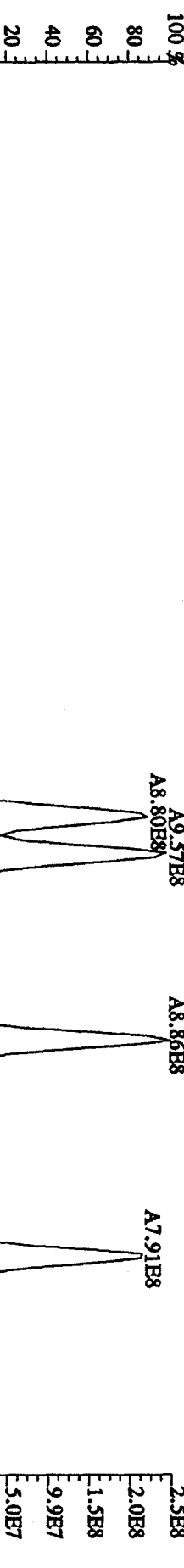
Sample#5 Text: ST0412C :CS-5 09DXN456 Exp: DIOXINRES8290A

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

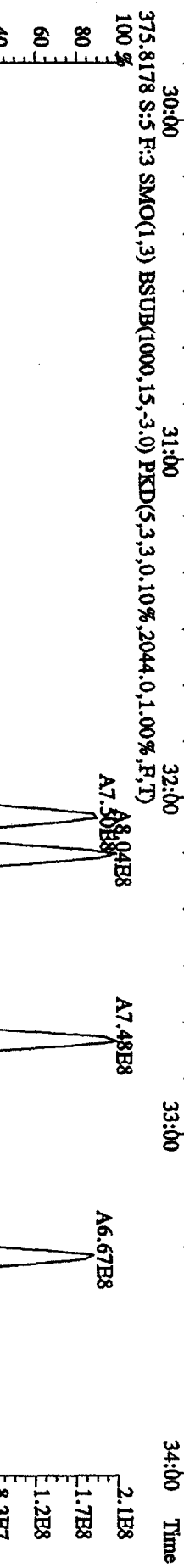
100% 29:58 30:20 30:40 31:02 31:20 31:38 31:59 32:34 32:56 33:10 33:23 33:46



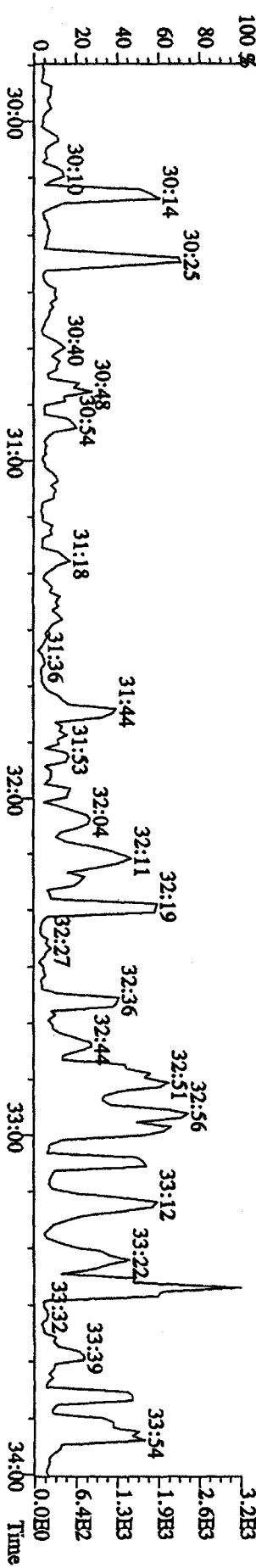
373.8208 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,3020,0.1,0.0%,F,T)

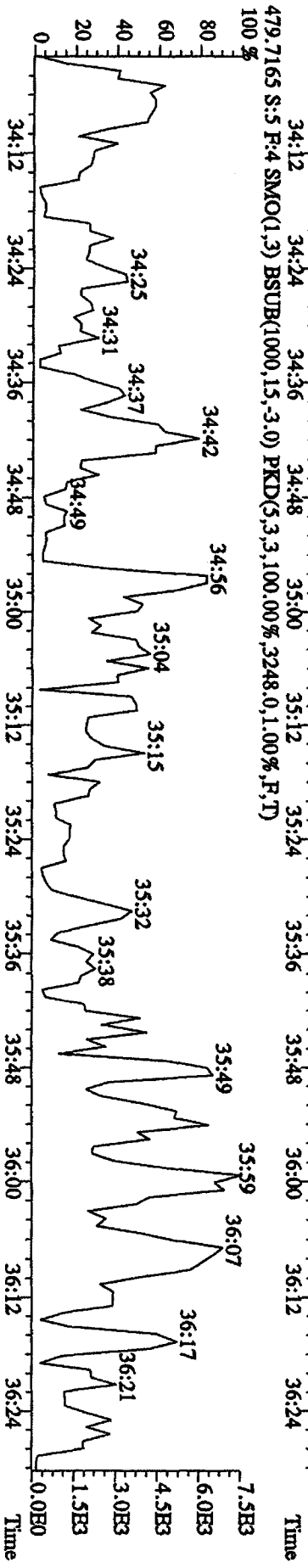
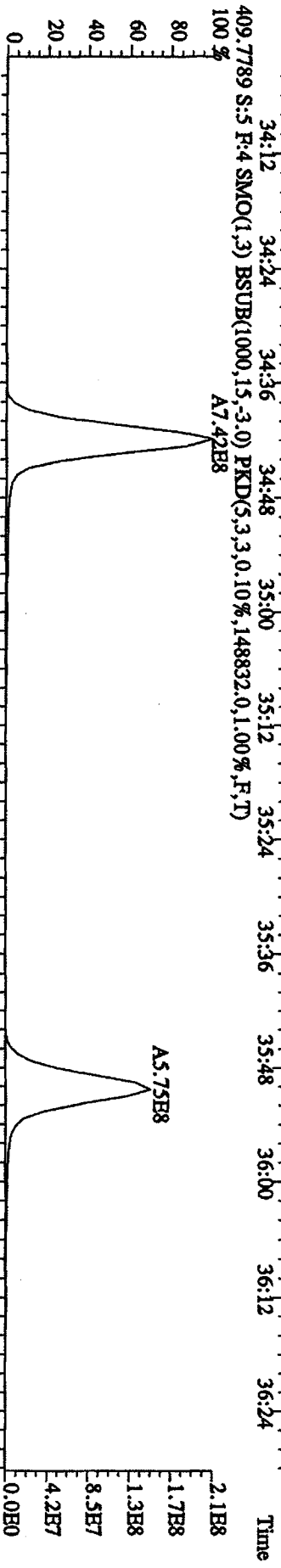
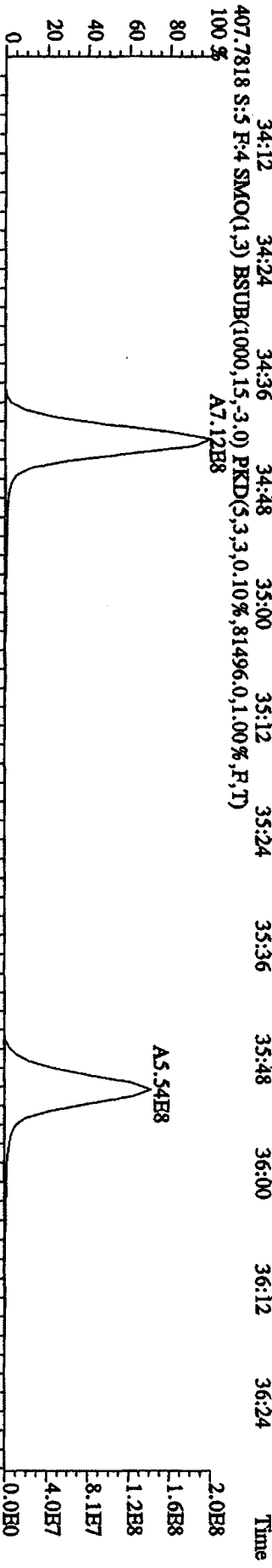
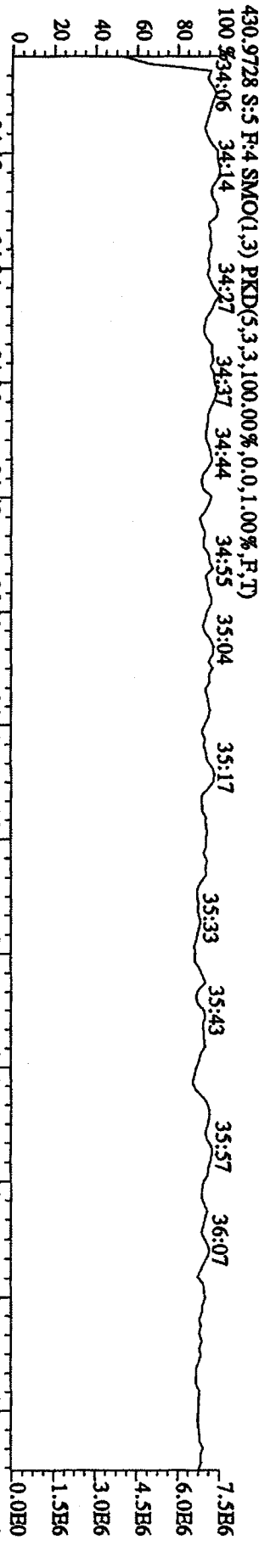


375.8178 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,2044,0.1,0.0%,F,T)

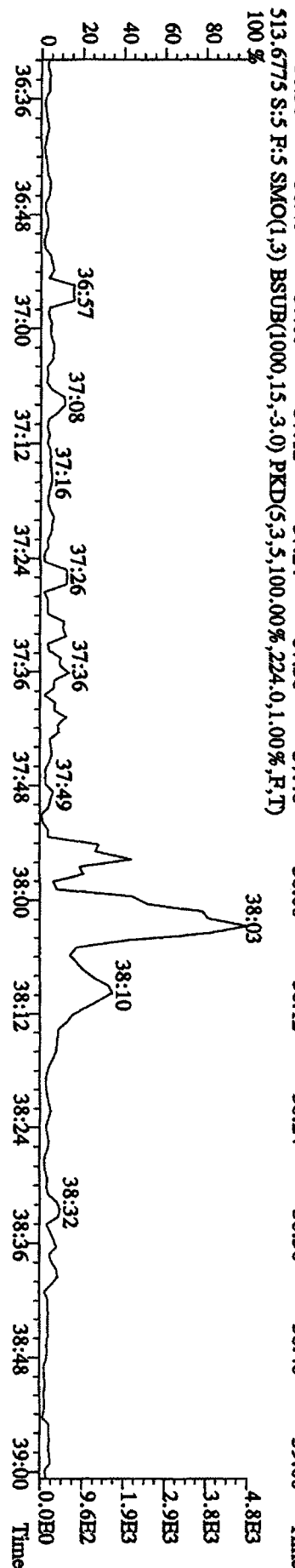
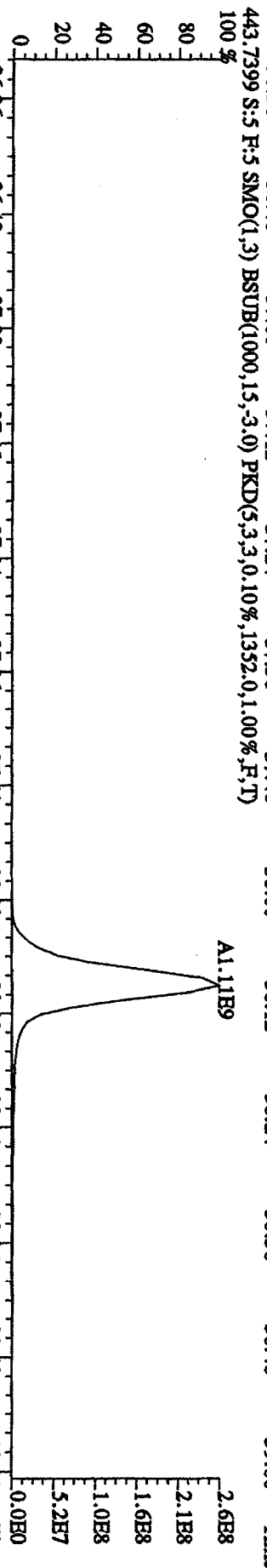
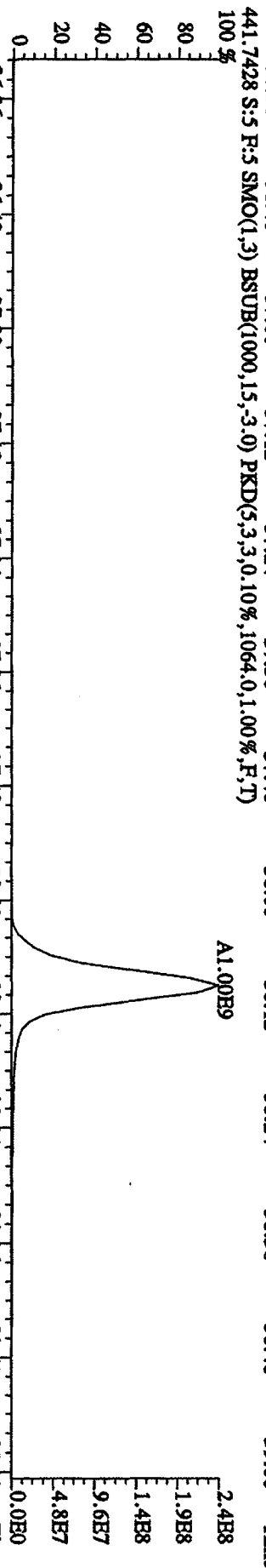
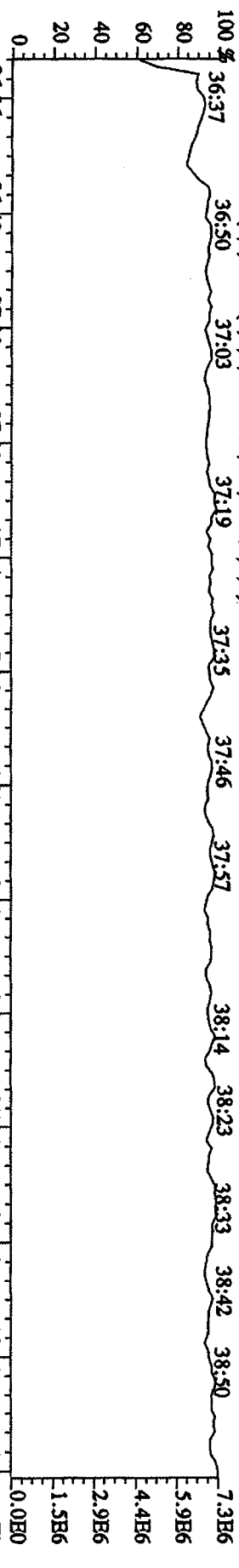


445.7555 S:5 F:3 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,100.00%,296,0.1,0.0%,F,T)

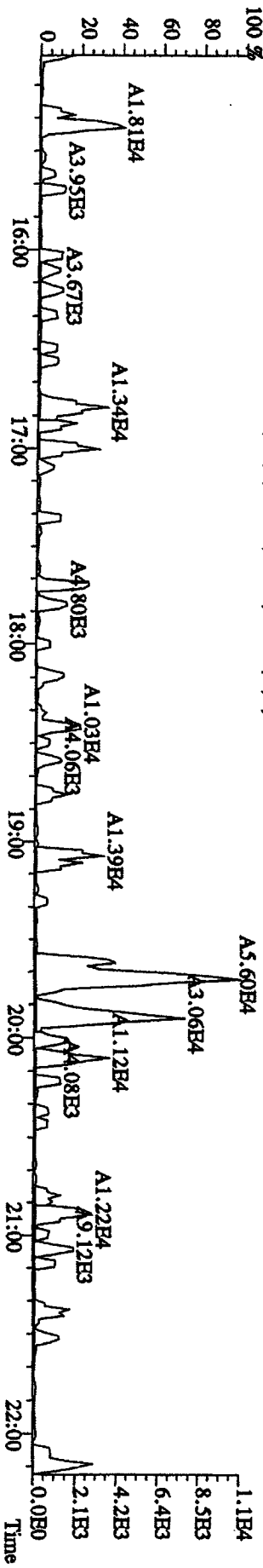
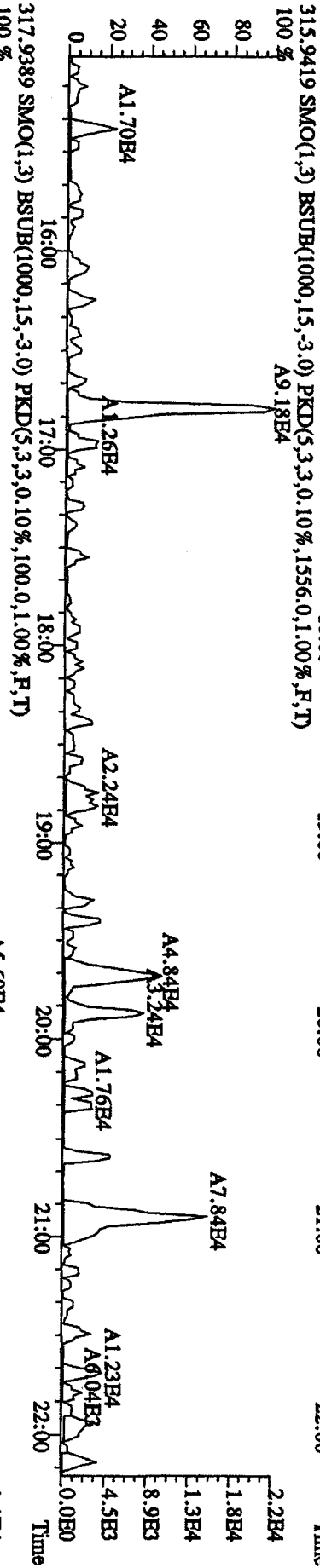
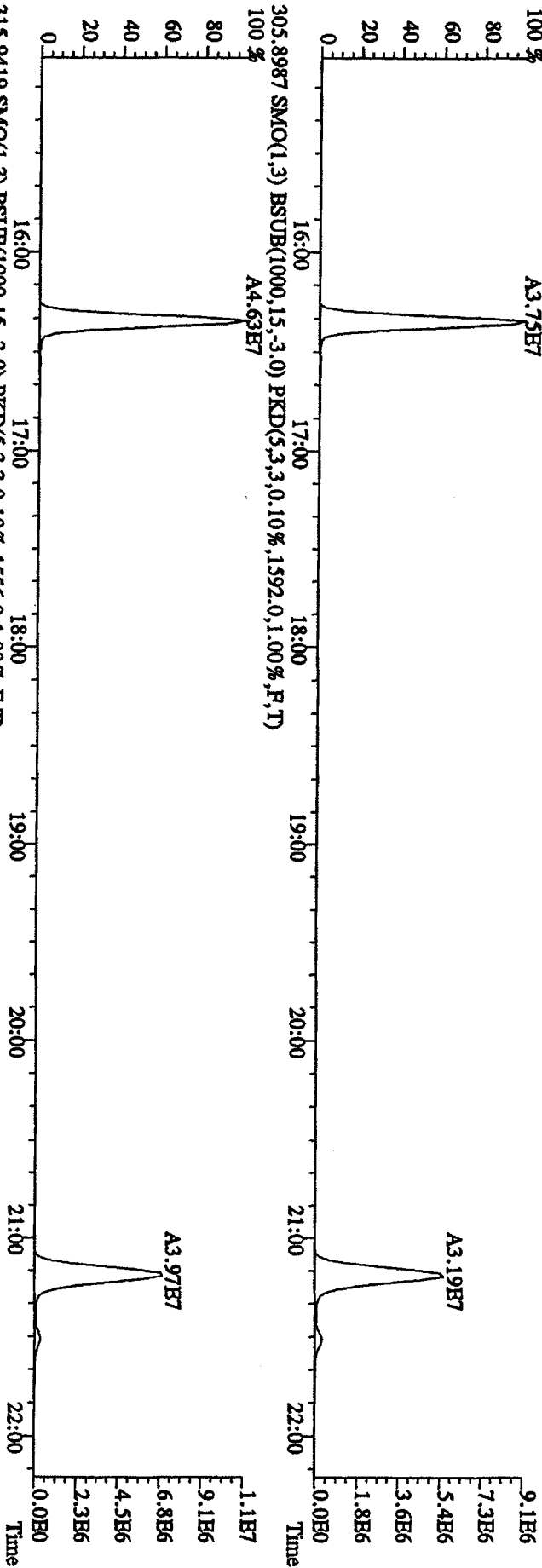




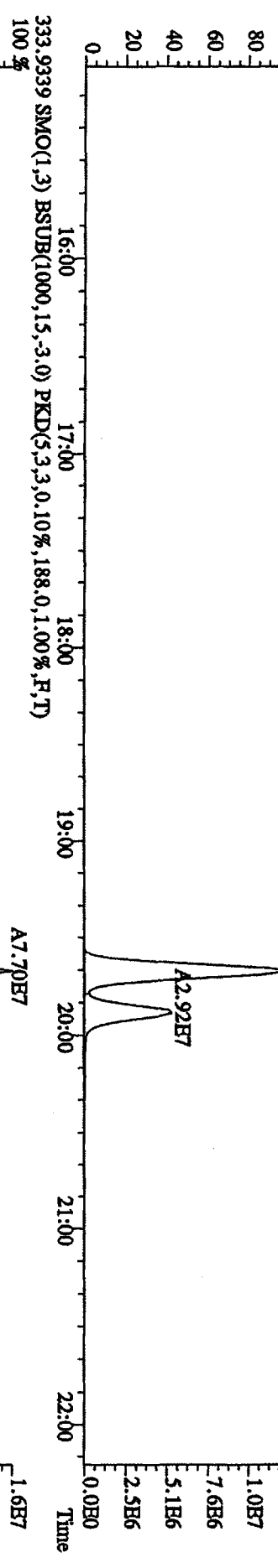
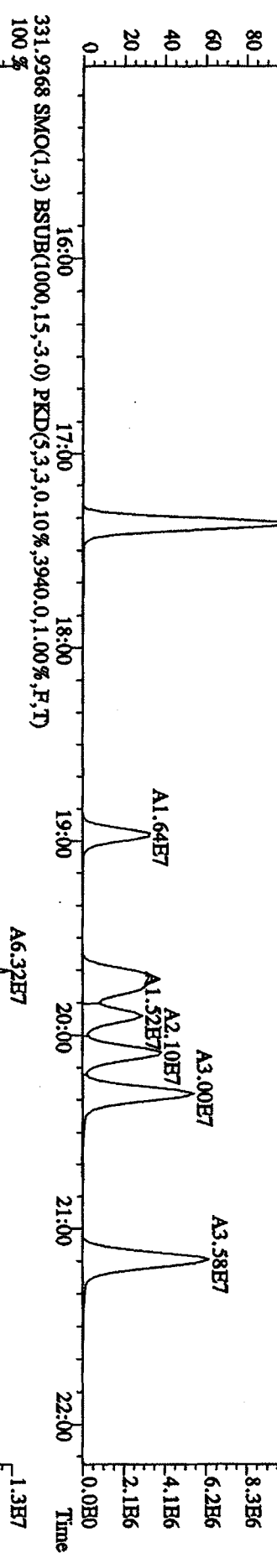
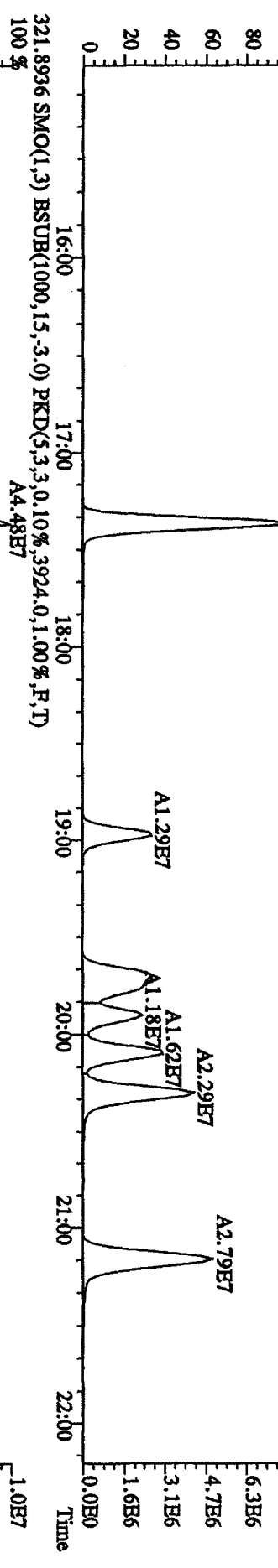
File: 12ADP104D5 #1-191 Acq: 12-APR-2010 11:32:49 GC EI+ Voltage SIR Autospec-UHimat
 Sample#5 Text: ST0412C :CS-5 09DXN456 Exp: DIOXINRES8290A



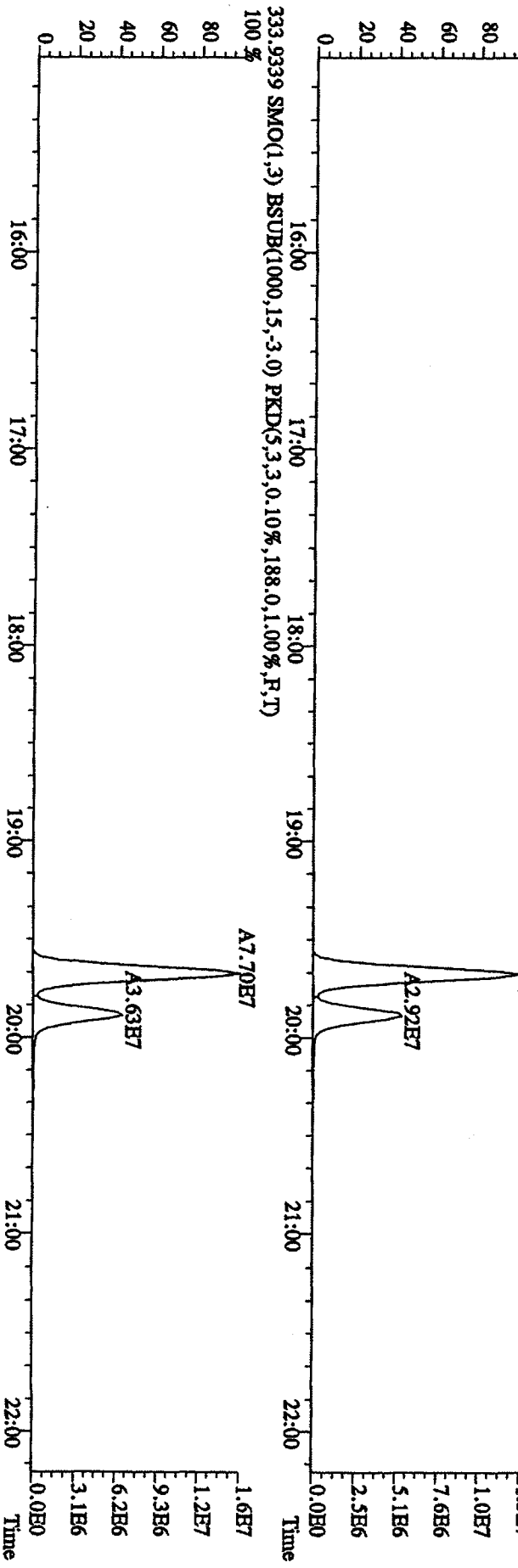
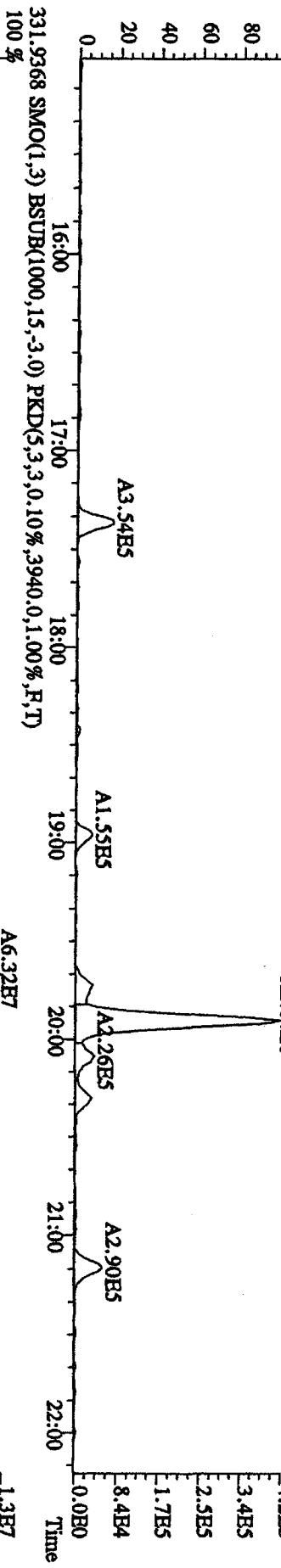
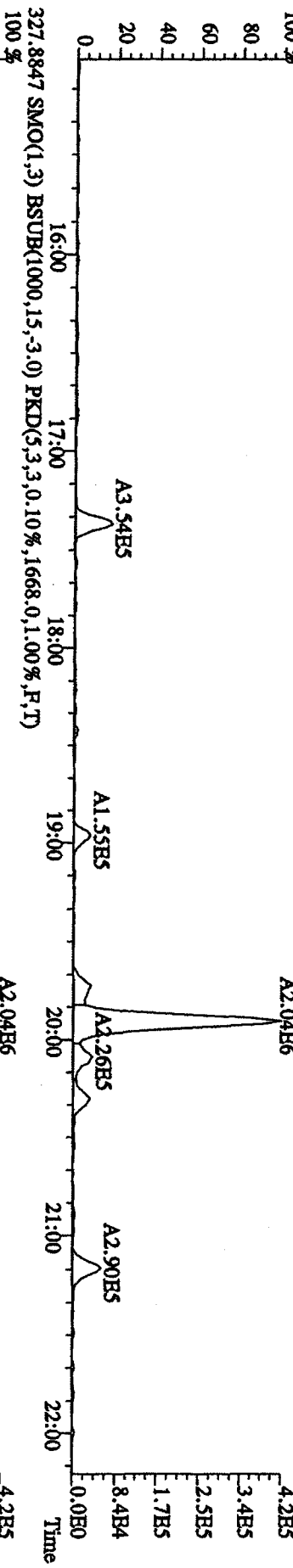
File:12AP104D5 #1-435 Acq:12-APR-2010 08:30:15 GC FI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:CP0412 ;DB-5 CPSM 3732-04 Exp:DIOXINRES8290A
 303.9016 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,944.0,1.00%,F,T)
 100% A3.75E7



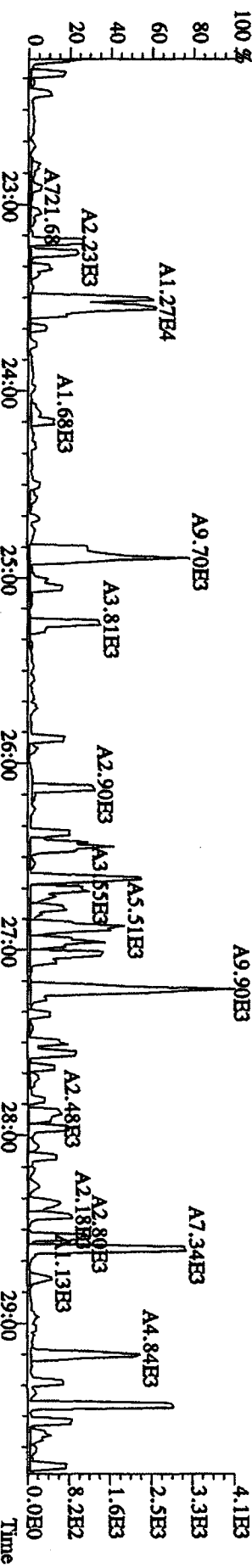
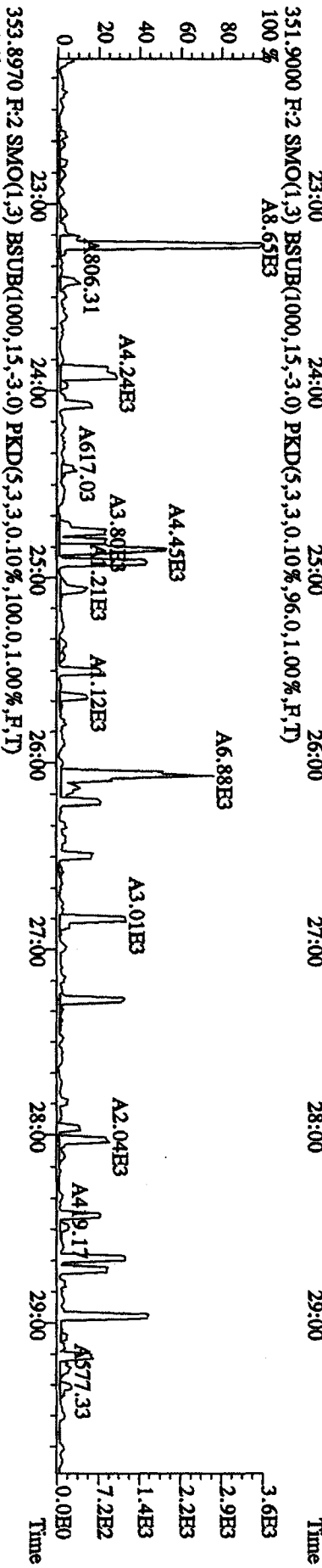
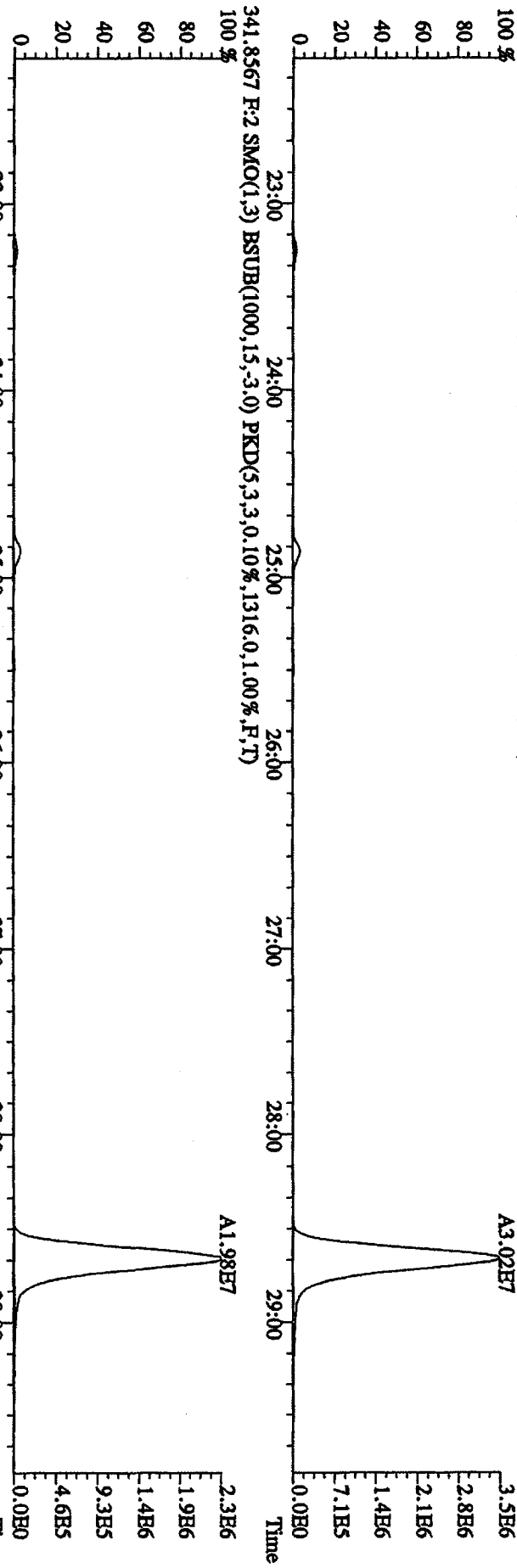
File:12ADP104D5 #1-435 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:CP0412 ;DB-5 CP5M 3732-04 Exp:DIOXINRES8290A
 319.8965 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1208.0,1.00%,F,T)
 100%



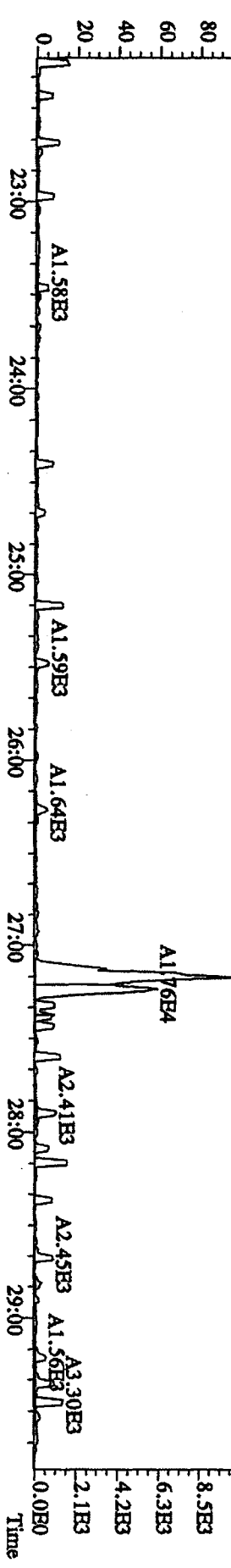
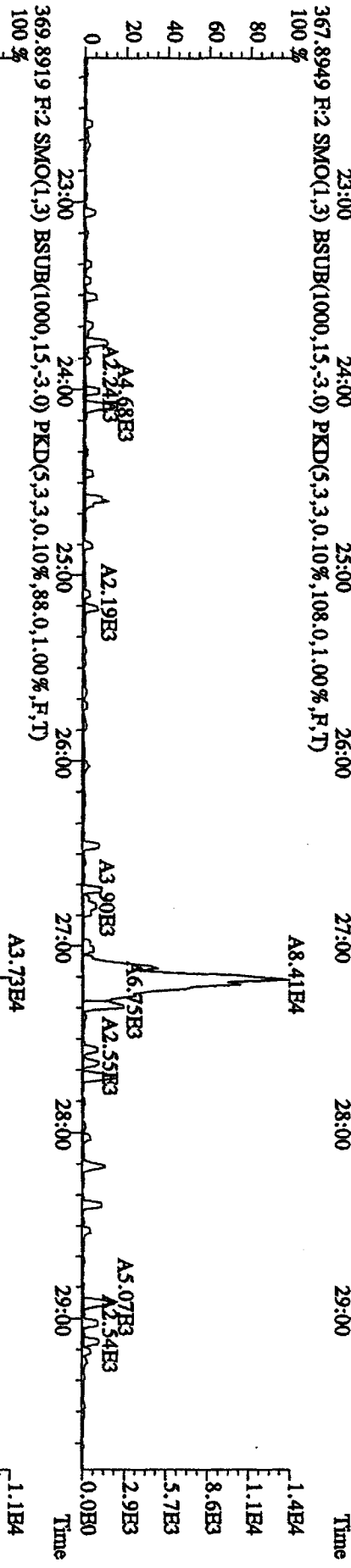
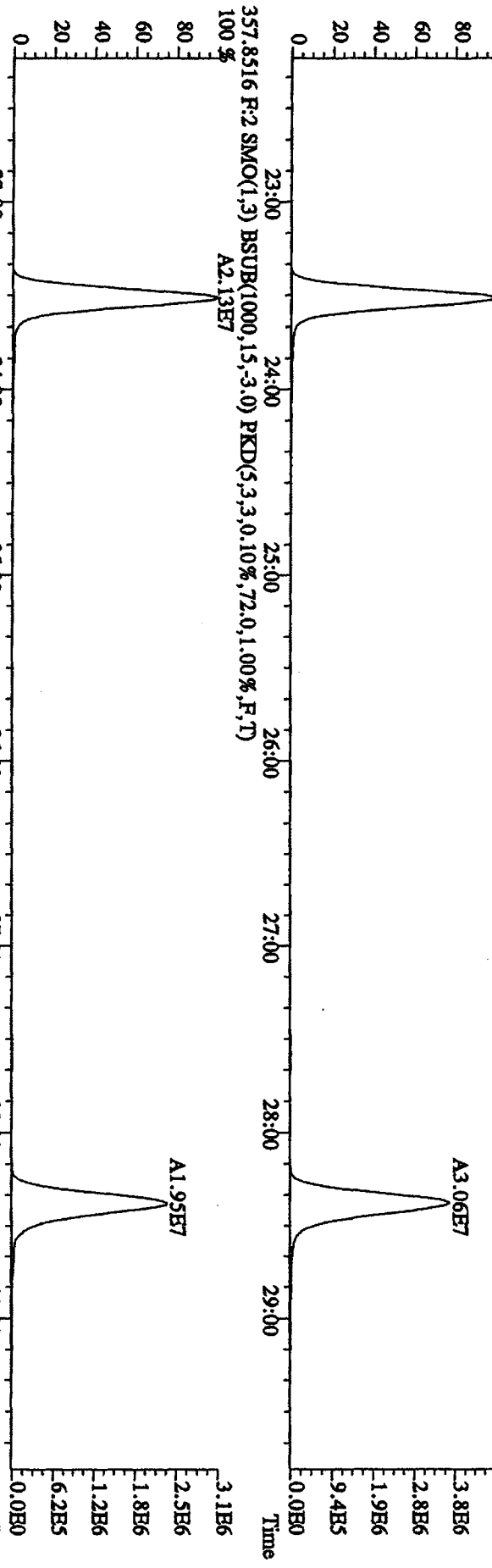
File: 12AP104D5 #1-435 Acq: 12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text: CP0412 :DB-5 CPSM 3732-04 Exp: DIOXINRES8290A
 327.8847 SMO(1,3) BSUB(1000,15,-3.0) PKD(5,3,3,0.10%,1.668,0.1,0.0%,F,T)



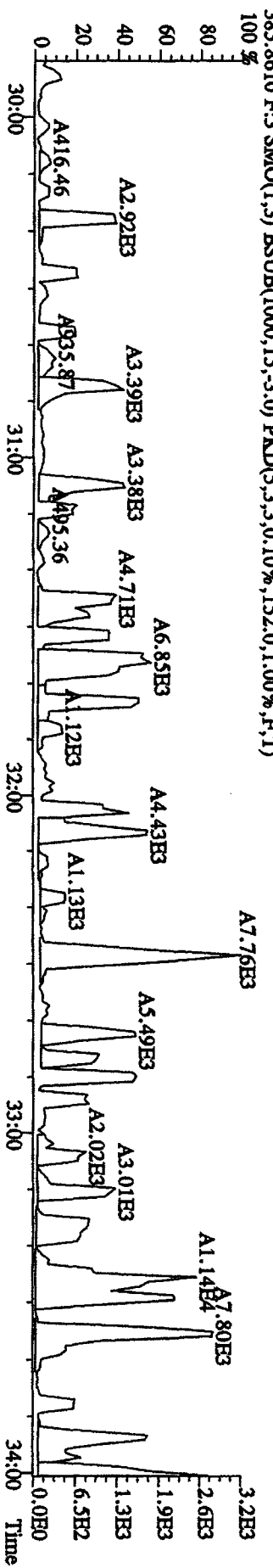
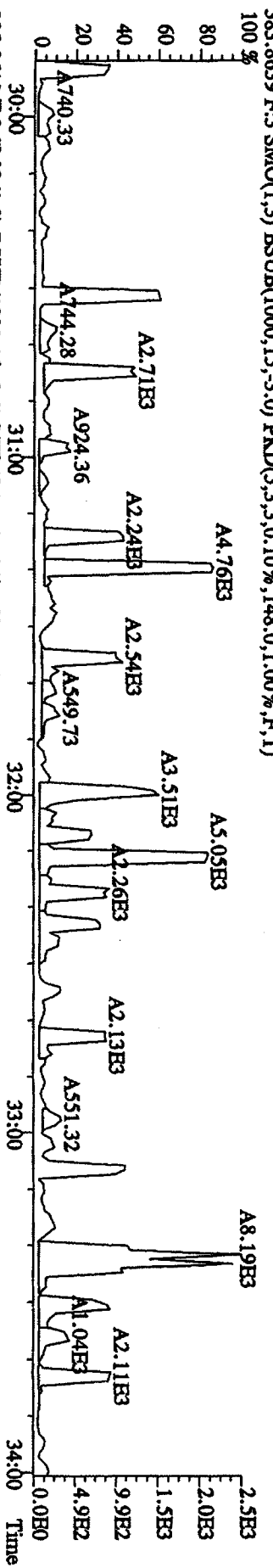
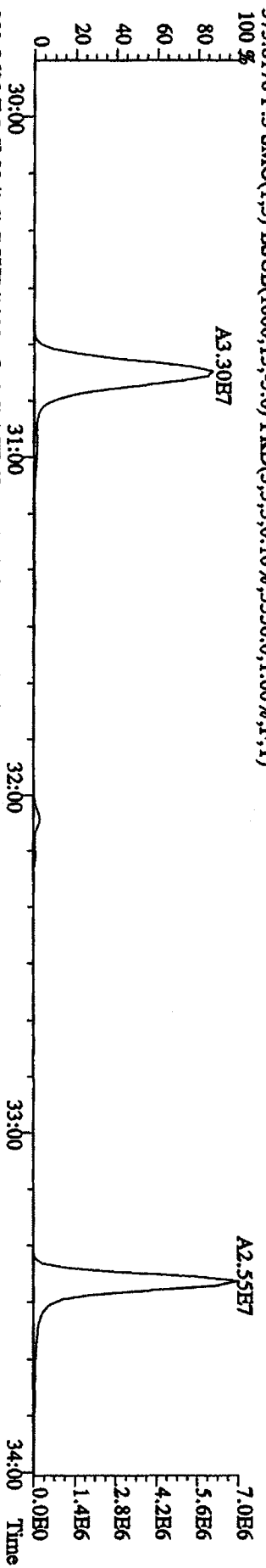
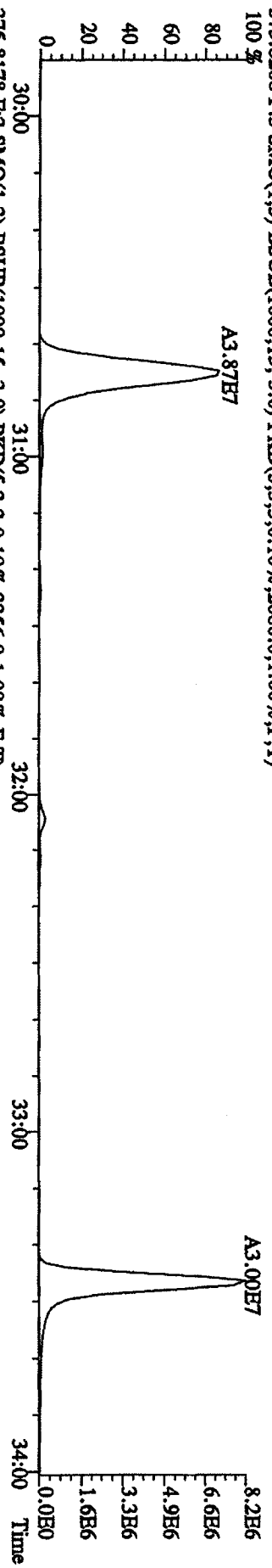
File:12AP104D5 #1-605 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-UltimaB
 Sample#1 Text:CP0412 :DB-5 CP5M 3732-04 Exp:DIOXINRHS8290A
 339.8597 F:2 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0,10%,1652,0,1,00%,F,T)



File: 12AP104D5 #1-605 Acq: 12-APR-2010 08:30:15 GC EI + Voltage SIR Autospec-UltimaB
 Sample#1 Text: CP0412 :DB-5 CPSM 3732-04 Exp: DIOXINRES8290A
 355.8546 F:2 SMO(1.3) BSUB(1000,15,-3.0) PKD(5,3,3,0,10%,1256.0,1.00%,F,T)
 100% A3.29E7



File:12AP104D5 #1-317 Acq:12-APR-2010 08:30:15 GC EI+ Voltage SIR Autospec-Ultimate
 Sample#1 Text:CP0412 :DB-5 CPSM 3732-04 Exp:DIOXINRES8290A
 373.8208 F:3 SMO(1,3) BSUB(1000,15,-3,0) PKD(5,3,3,0.10%,2080.0,1.00%,F,T)



Sample Extraction/Preparation Log
Copies and Checklists

**TestAmerica West Sacramento
High Resolution Prep Log
Dioxin/Furan AQ Extraction**

Batch: 0106253
MS Run #: _____
Prep Date: 4/16/2010

Shared QC Batch: SAME
Shares: 1461W
QC With: HA

Box # 12

Internal COC:	
Delivered to Inst.:	<u>914160</u>
Inst Receipt:	

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

Reagent	Supplier	Lot #
DCM	Baker	H46509
Hexane	Baker	H37E41
H2SO4	Baker	NA
20% DCM:Hexane	NA	3630-53B
65% DCM:Hexane	NA	3630-53G
1:1 DCM:Cyclohexane	NA	NA
75:20:5	NA	NA
DCM:Hexane:Benzene	NA	NA
Silica Gel	WATMAN	22-24
Acid Alumina	MP BIO	19
5% Carbon:Silica Gel	NA	NA

Extraction Table

Sample ID	Suff	Work Order	Extraction Hold Time Expires	Sample size 4000uL	Bottle + Sample Weight	Empty Bottle Weight	Final Volume		Analysis Hold Time Expires	Extraction ID	Round Bottom ID	Rotovap ID
							20uL	Other				
G0D120444 - 3		LX1281AC	5/7/2010	478.8	740.5	261.7	✓		5/31/2010	NA	R28G	5
G0D130519 - 1		LXWV71AA	5/8/2010	1033.5	1529.0	495.5	✓	10.0	5/31/2010	S20	R31G	7
G0D130519 - 2		LXWV81AA	5/8/2010	1033.8	1529.9	496.1	✓	10.0	5/31/2010	NA	R12G	5
G0D150508 - 1		LX10X1A2	5/13/2010	910.0	1320.4	410.4	✓		5/31/2010	S18	R08G	7
G0D150508 - 2		LX1061AD	5/13/2010	920.5	1332.7	412.2	✓		5/31/2010	NA	R33G	5
G0D150508 - 3		LX1071AD	5/13/2010	910.3	1321.8	411.5	✓	414.0	5/31/2010	NA	R17G	7
G0D150508 - 4		LX1081AD	5/13/2010	910.5	1317.3	400.8	✓		5/31/2010	NA	R321G	5
G0D150508 - 4	S	LX1081CE	5/13/2010	924.4	1310.7	386.3	✓		5/31/2010	S14	R35G	7
G0D150508 - 4	D	LX1081CF	5/13/2010	929.2	1332.6	403.4	✓		5/31/2010	NA	R26G	5
G0D160000 - 253	B	LX3LQ1AA	5/13/2010	1000.0	N/A	NA	✓		5/31/2010	S23	R10G	5
G0D160000 - 253	C	LX3LQ1AC	5/13/2010	1000.0			✓		5/31/2010	NA	R27G	7

* See attached sheet for sample volumes recorded from scale
 Comments/NCMs: Sample GOR120444-3 was diluted to 1.0L w/ de-ionized water for the extraction

Internal Standard All Samples	ID	Spike Exp Date:	Spiked By:	Witnessed By:	Date:
	10DXN110	10/31/10	STW	STW	4/16/10
Spike Mix LCS/LCSD/MS/MS	80.110DXN103	3/9/11	STW	STW	4/16/10
Cleanup Standard All Samples	1.0mL/10DXN119	4/12/2011	MC	T.L	4/19/10
Recovery Standard All Samples	20.0009DXN385	11/19/10	J	T.L	4/19/10
Liq Liq Extraction Analysis/Date	STW 4/16/10				

Split/Archive Analyst/Date	Option C Analyst/Date	IFB Analyst/Date	D2 Analyst/Date
—	—	MC / 4/19/10	—

LEV 1 2 LEV 1 2
 - Blank - Spike & Surrogate Worksheet
 - Check - Vial contains correct volume
 - MS/MSD - 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

 * QC BATCH: 0123308 *
 * PREP DATE: 4/19/10 *
 * COMP DATE: 4/19/10 *

Reviewer/Date: / 0/00/00
 DIOXINS/FURANS, HRGC/HRMS (\$290)
 LIQ/LIQ, SEP FUNNEL (PAH, P/P, TPH, DIOXIN) - Nominal

EXTR	ANL	LOT#	MSRUN#	TEST	EXT	MTH	MATRIX	INIT	FIN	PH'S	ADJ1	ADJ2	EXTRACTION	VOL	EXCHANGE	VOL	SOLVENTS	SPIKE	STANDARD/ SURROGATE ID
5/08/10	4/30/10	G0D130519-001	LXWV7-1-AA	1033.5mL 10.00uL	09	IN	WATER	NA	NA	NA	DCM	DCM	300.0	20.0	C-14	20.0	300.0	1.0ML	IS10DXN110
COMMENTS:																			
5/08/10	4/30/10	G0D130519-002	LXWV8-1-AA	1033.8mL 10.00uL	09	IN	WATER	NA	NA	NA	DCM	DCM	300.0	20.0	C-14	20.0	300.0	1.0ML	IS10DXN110
COMMENTS:																			
5/08/10	0/00/00	G0E030000-308	LOW8G-1-AAB	1000.0mL 20.00uL	09	IN	WATER	NA	NA	NA	DCM	DCM	300.0	20.0	C-14	20.0	300.0	1.0ML	IS10DXN110
COMMENTS:																			
5/08/10	0/00/00	G0E030000-308	LOW8G-1-ACC	1000.0mL 20.00uL	09	IN	WATER	NA	NA	NA	DCM	DCM	300.0	20.0	C-14	20.0	50.0UL	NS10DXN103	1.0ML IS10DXN110
COMMENTS:																			

R = RUSH C = CLP
 E = EPA 600 D = EXP. DEL)
 M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 4

Preparation Data Review Checklist

Prep Batch(es) 0106253

Test: 8240

Prep Date: 4/16/10

Holding Times: 5/7/10 NCM: Y (N)
5/13/10

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

Spike witness: [Signature]

Date: 4/16/10

2nd Level Reviewer: [Signature]

Date: 4/19/10

Comments:

Data Checklist
HRGCMS/LRGCMS Analyses

THE LEADER IN ENVIRONMENTAL TESTING

Batch #: 0123308 Method ID: 8290

	<u>DB-5</u>	<u>DB-225</u>
Data Analyst:	<u>VJP</u>	_____
Date initiated:	<u>5.3.10</u>	_____
Reviewer:	<u>M. Kelly</u>	_____
Date reviewed:	<u>5/4/2010</u>	_____

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"/>	_____	_____
-Method Blank present?	<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"/>	_____	_____
-Internal standard recoveries within limits?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____
-Ion ratios within + 15% of theoretical values?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____
-Other QC (Dup,MS,SD) within specs?*	<input checked="" type="checkbox"/> <u>N/A</u>	<input checked="" type="checkbox"/>	_____	_____

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"/>	_____	_____
-All raw data present?	<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"/>	_____	_____
-DL's below <u>TDL</u> / LCL (please circle)?	<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"/>	_____	_____
-Correct RRF's used for method?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____
-Internal standard amounts correct for method?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____
-Target analytes are not saturated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____
-Dilution/splitting of extract taken into account?	<input checked="" type="checkbox"/> <u>N/A</u>	<input checked="" type="checkbox"/> <u>N/A</u>	_____	_____
-Have dilution calculations been verified?	<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"/>	_____	_____
-Are retention times (RT) correct?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____
-Manual integrations checked?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____

Comments: (Use other side if necessary)
See NCM

* Recovery limits:		**RPD limits:
NCASI 551:	40-120%***	50%
Method 8290:	40-135%***	20%
Method 1613:	25-150%***	50%
Method 23:	40-130%***(CI4-CI6), 25-130%(CI7-8), 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.

Unused Data

VA 5.3.10 0123308

Are there any Associated Samples or Batches with this Set of Samples?
Yes
No

TestAmerica West Sacramento
ADVANCED TECHNOLOGY
LOW/HIGH RESOLUTION ANALYSIS

BATCH: 0106253
MS Run#: ~~0109221~~ VB
Extract Box Location: 72 5.B.10
Date to Instruments: 4/19/10

G0D130519
1, 2

Total Samples: 2 of 2
Set: 1 of 1

Northgate Environmental Manage

Isomers (≤12 hr Res Chk)

QAS Release Date: 4/14/2010
Expected Date:

Project Manager: David R. Alltucker
Client Name: Northgate Environmental Manage
Quote Number: 84087
Project Site: Henderson NV
Deliverable Info: STL Sacramento Standard Report
Method Desc: IN Dioxins/Furans, HRGC/HRMS (8290)
QC Desc: 01 STANDARD TEST SET
Matrix Desc: 1 WATER
Location: W25A

Date Received: 4/13/2010
Date Log Released: 4/14/2010
Date Subbed: 4/15/2010
Turnaround Time: 18
Prep Due: Sunday, Apr 18 2010
Ops Due: Friday, Apr 30 2010
Report Due: Monday, May 3 2010

Extraction Desc: 09 LIQ/LIQ, SEP FUNNEL (PAH,P/P,TPH,Dioxin) - N
Extraction Analysis: DX8290_L
Dioxin Reporting: Estimated Detection Limits

Prep Comments from Quote

Analysis Comments from Quote

Reporting Comments from Quote

Data Entry Comments from Quote

Prep Comments from QAS

MS/SD on client sample (or specified MS/SD) required on each extraction batch.

8290:
Extract 10g to a final volume of 10uL. Option C must be performed.

1668:
Extract 10g or 1L to a final volume of 20uL. Option C must be performed on all solid samples. SPLPs will have two different leachate fluids, SPLP-Fluid 2 and SPLP-Fluid 3. Please make sure the laboratory blank is WO-1-AA, the Fluid 2 is WO-1-AD and Fluid 3 is WO-1-AE. Batch and extract a laboratory method blank and each leachate fluid blank. If you have any questions, please see David Alltucker.

Analysis Comments from QAS

Write up data to the EDL (both dioxins and PCBs).

Level IV data package. Requires a full level 2 summary section in the front of the report. Sample and QC data form 1, Run Logs, ICAL and CCV summaries.

8290:
CPSM must meet 25% valley before analyzing samples.
Mass Resolution Check at beginning and end of each 12 hour shift.

1668:

RTs should be +/- 15 seconds from ICAL.

1pt Calibration at the beginning of each 12 our shift.

Mass Resolution Check at beginning and end of each 12 hour shift.

Air Prep Comments from QAS

G0D130519

Samp #	Suff	Work Order	Sample Description	Container Information		Sampling Date	Hold Time for Method	Date Hold Time Expires
1		LXWV71AA	FB-040710-RZC	2	2-AGB	4/8/2010	30	5/8/2010
2		LXWV81AA	EB-040710-RZC	2	2-AGB	4/8/2010	30	5/8/2010

TestAmerica West Sacramento

Project/Sample Specific Information and Work Orders with the Same Analyte List

Lot ID: G0D130519

Project Manager: ALLTUCKD

Client Name: Northgate Environmental Manage

Quote Number: 84087

Project Site: Henderson NV

Date Received: 4/13/2010

Date Log Released: 4/14/2010

Turnaround Time: 18

Prep Due: Sunday, Apr 18 2010

Ops Due: Friday, Apr 30 2010

Report Due: Monday, May 3 2010

Expected Date:

Lot ID	Samp Num	Suff	Work Order	Batch	Analyte List ID	Sampling Date	Time Sampled
G0D130519	1		LXWV71AA	0106253	5	4/8/2010	900
G0D130519	2		LXWV81AA	0106253	5	4/8/2010	1126

Quality Assurance Summary

Client **Northgate Environmental Manage**

Project Name: **2027.01**

PM: **DRA**

Lot Receipt Date: **4/13/2010**

Ops Due: **4/30/2010**

Lot ID **G0D130519**

Quantims Quote: **84087**

QAPjP

General QC

Regulatory Program: **Standard**
Batching: **MB / LCS**
Corrective Action: **Standard**
QC Type: **MS / SD**
QC Controls: **Standard**

Reporting

Reporting Limits: **Standard**
J Values: **None**
 Yellow Sheet Dry Weight

Raw Data:
See Comments

Summaries:
See Comments

Logs:
None

Entry:
None

TPH-D Chros:
None
TPH-G Chros:
0

Air Toxics

Air Train:
Air HG Fractions: **0**
Air Ambient:
Air Prespike:
Air Int Std: **Standard**
Air DCS: **Standard**
Air Reporting:
Air DF Train: Air DF Archive
Air Semi Train: Air Semi Archive
 Air Semi Methods

Organics

ABN Search
 VOA Search
Tic#: **0**
 Non Linear Calibration

TPH

TPH-D Carbon Ranges:

BTEX Confirmation

Inorganics

Inorganic QC :
Serial Dilution:
TOC:
TOX:
AOX:
 Post Spike

Dioxin

Dioxin Totals
Dioxin Action Limit:
Dioxin Threshold:
Dioxin Reporting: **Estimated Detectio**

Dioxin TDL
Dioxin Sample Volume:
Dioxin Extract Volume:

Dioxin Cleanups
 Dioxin Cleanup Acid Base
 Dioxin Cleanup Carbon
 Dioxin Cleanup Acid Digest
 Dioxin Dry Grind

Friday, April 16, 2010

Page 1 of 2

Quality Assurance Summary

Client **Northgate Environmental Manage**

Project Name: **2027.01**

PM: **DRA**

Lot Receipt Date: **4/13/2010**

Ops Due: **4/30/2010**

Lot ID **G0D130519**

Quantims Quote: **84087**

QAPjP

Organic Analysis Comments:

Organic Prep Comments:

ATG Analysis Comments:

Write up data to the EDL (both dioxins and PCBs).

Level IV data package. Requires a full level 2 summary section in the front of the report. Sample and QC data form 1, Run Logs, ICAL and CCV summaries.

8290:

CPSM must meet 25% valley before analyzing samples.

Mass Resolution Check at beginning and end of each 12 hour shift.

1668:

RTs should be +/- 15 seconds from ICAL.

1pt Calibration at the beginning of each 12 our shift.

Mass Resolution Check at beginning and end of each 12 hour shift.

ATG Prep Comments:

MS/SD on client sample (or specified MS/SD) required on each extraction batch.

8290:

Extract 10g to a final volume of 10uL. Option C must be performed.

1668:

Extract 10g or 1L to a final volume of 20uL. Option C must be performed on all solid samples.

SPLPs will have two different leachate fluids, SPLP-Fluid 2 and SPLP-Fluid 3. Please make sure the laboratory blank is WO-1-AA, the Fluid 2 is WO-1-AD and Fluid 3 is WO-1-AE. Batch and extract a laboratory method blank and each leachate fluid blank. If you have any questions, please see David Alltucker.

Metals Comments:

GenChem Comments:

Samples for perchlorate are expected to be very high in most cases, with the exception of flied blanks. Please look at the client ID's and if not a blank, start at a 1000x dilution so we don't blow the instrument away.

Air Tox Prep Comments:

Friday, April 16, 2010

Page 2 of 2

TestAmerica West Sacramento

Analyte List Requested

Lot ID: G0D130519

SAC: IN - 09 - I - 01

Analyte List ID: 5

Native Compound List

Analyte	List	Reporting Limit pg/L	MDL pg/L
2,3,7,8-TCDF			
2,3,7,8-TCDD			
1,2,3,7,8-PeCDF			
2,3,4,7,8-PeCDF			
1,2,3,7,8-PeCDD			
1,2,3,4,7,8-HxCDF			
1,2,3,6,7,8-HxCDF			
2,3,4,6,7,8-HxCDF			
1,2,3,7,8,9-HxCDF			
1,2,3,4,7,8-HxCDD			
1,2,3,6,7,8-HxCDD			
1,2,3,7,8,9-HxCDD			
1,2,3,4,6,7,8-HpCDF			
1,2,3,4,7,8,9-HpCDF			
1,2,3,4,6,7,8-HpCDD			
OCDF			
OCDD			

Surrogate Compound List

Analyte	Surr. Rec. Lower Limit	Surr. Rec. Upper Limit
13C-2,3,7,8-TCDF	40	135
13C-2,3,7,8-TCDD	40	135
13C-1,2,3,7,8-PeCDF	40	135
13C-1,2,3,7,8-PeCDD	40	135
13C-1,2,3,4,7,8-HxCDF	40	135
13C-1,2,3,6,7,8-HxCDD	40	135
13C-1,2,3,4,6,7,8-HpCDF	40	135
13C-1,2,3,4,6,7,8-HpCDD	40	135
13C-OCDD	40	135

ATG OC Batch / Tracking

	<u>Test</u>	<u>report</u>	<u>Ops due</u>
Batch # <u>0106253</u>			
Projects <u>G0D120444</u>	<u>8290</u>	<u>Totals</u>	<u>4-30-10</u> ^{29 am 4-19-10}
<u>G0D130519</u>	<u>8290</u>	<u>Isomers</u>	<u>4-30-10</u>
<u>G0D150508</u>	<u>8290</u>	<u>Totals</u>	<u>4-29-10</u>
_____	_____	_____	_____

Batch # <u>0106329</u>			
Projects <u>G0D150603-15217</u>	<u>8290</u>	<u>Totals</u>	<u>4-22-10</u> Done
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Batch # _____			
Projects _____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Batch # _____			
Projects _____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Comments: _____

